PLANS FOR THE CONSTRUCTION OF

PARK AND STREETSCAPE IMPROVEMENTS

VITRUVIAN PARK

FOR

VITRUVIAN PARK PUBLIC INFRASTRUCTURE-PHASE 1C

TOWN OF ADDISON, TEXAS

PUBLIC WORKS # 2009-04

Addison!®

JOE CHOW
MAYOR

ROGER MELLOW
MAYOR PRO TEMPORE

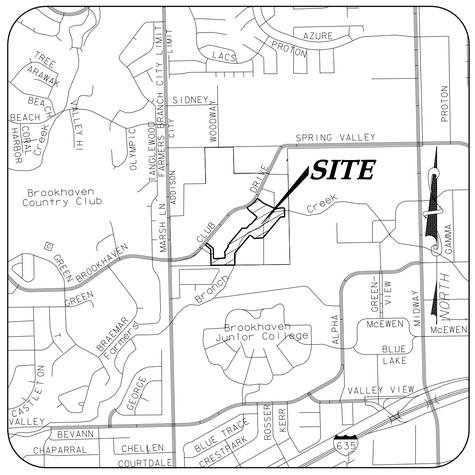
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KIMBERLY LAY
BIANCA NOBLE
COUNCIL MEMBERS

RON WHITEHEAD
CITY MANAGER

NANCY CLINE, P.E.
DIRECTOR OF PUBLIC WORKS

CLAY BARNETT, P.E.
TOWN ENGINEER

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VICINITY MAP

NOT TO SCALE

(MAPSCO GRID 13 & 14)

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NOVEMBER 3, 2009 - ISSUED FOR BID 10-01



ICON PROJECT #5029-01

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

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STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
11/3/09

NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

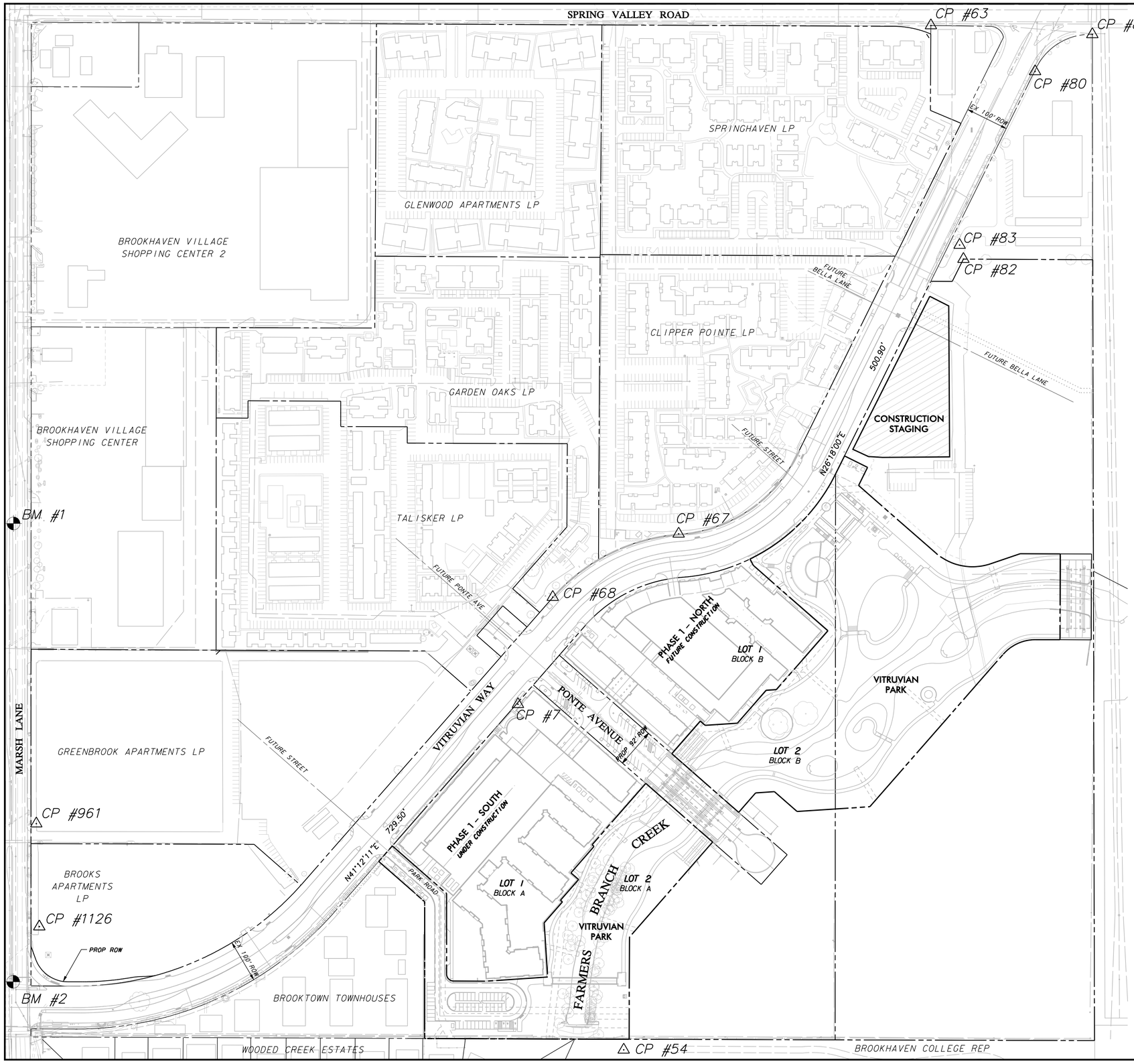
INDEX OF DRAWINGS

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Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	ID

BID

PARK AND STREETSCAPE IMPROVEMENTS – VITRUVIAN PARK



CP #7	CP #67	CP #81	CP #961
CPIR 5/8"YC2509	IRF 1/2"	IRF 1/2" HZ	TP/6D SET
N 8354.44	N 8751.47	N 9915.07	N 8076.39
E 11036.81	E 11411.24	E 12375.13	E 9914.62
ELEV 564.75	ELEV 570.89	ELEV 584.42	ELEV

CP #54	CP #68	CP #82	CP #1126
CPIR 5/8"YC # 2509J	IRF 1/2" BENT	IRF 1/2"	TP/PK SET
N 7549.40	N 8604.13	N 9391.52	N 7836.48
E 11283.24	E 11117.93	E 12074.82	E 9921.51
ELEV 549.86	ELEV 569.99	ELEV 573.99	ELEV 547.9

CP #63	CP #80	CP #83
IRF 3/8"	IRF 1/2"	CPPK J
N 9935.76	N 9828.79	N 8424.30
E 11998.95	E 12241.73	E 12065.87
ELEV 583.02	ELEV 582.65	ELEV 573.53

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
11/3/09

NO.	REVISION	BY	DATE

NORTH
0 60 120 180 240
GRAPHIC SCALE IN FEET
SCALE: 1"=120'

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

OVERALL PLAN & PROJECT CONTROL

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PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
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BID

PARK AND STREETSCAPE IMPROVEMENTS – VITRUVIAN PARK

GENERAL CONSTRUCTION NOTES

1. STANDARDS AND SPECIFICATIONS: ALL MATERIALS, CONSTRUCTION METHODS, WORKMANSHIP, EQUIPMENT, SERVICES AND TESTING FOR ALL PUBLIC IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE GOVERNING AUTHORITIES' ORDINANCES, REGULATIONS, REQUIREMENTS, STATUTES, SPECIFICATIONS AND DETAILS, LATEST PRINTING AND AMENDMENTS THERETO. THE GOVERNING AUTHORITIES' PUBLIC WORKS AND WATER DEPARTMENT REQUIREMENTS, PLUMBING CODES, AND FIRE DEPARTMENT REGULATIONS SHALL TAKE PRECEDENT FOR ALL PUBLIC IMPROVEMENTS WHERE APPLICABLE. ALL OTHER PUBLIC CONSTRUCTION, NOT REGULATED BY THE GOVERNING AUTHORITY, SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, NORTH CENTRAL TEXAS – NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, LATEST PRINTING AND AMENDMENTS THERETO, EXCEPT AS MODIFIED OR AMENDED BY THE PROJECT CONTRACT DOCUMENTS.

2. EXAMINATION OF SITE: THE CONTRACTOR ACKNOWLEDGES THAT HE HAS INVESTIGATED AND SATISFIED HIMSELF AS TO THE CONDITIONS AFFECTING THE WORK, INCLUDING BUT NOT RESTRICTED TO THOSE BEARING UPON TRANSPORTATION, DISPOSAL, HANDLING AND STORAGE OF MATERIALS, AVAILABILITY OF LABOR, WATER, ELECTRIC POWER, ROADS AND UNCERTAINTIES OF WEATHER, OR SIMILAR PHYSICAL CONDITIONS AT THE SITE, CONDITIONS OF THE GROUND, THE CHARACTER OF EQUIPMENT AND FACILITIES NEEDED PRELIMINARY TO AND DURING PERFORMANCE OF THE WORK. THE CONTRACTOR ACKNOWLEDGES THAT HE HAS INSPECTED THE SITE OF THE WORK AND IS FAMILIAR WITH THE SOIL CONDITIONS TO BE ENCOUNTERED. ANY FAILURE BY THE CONTRACTOR TO ACQUAINT HIMSELF WITH THE AVAILABLE INFORMATION WILL NOT RELIEVE HIM FROM RESPONSIBILITY FOR ESTIMATING PROPERLY THE DIFFICULTY OR COST OF SUCCESSFULLY PERFORMING THE WORK. THE TOWN OF ADDISON ASSUMES NO RESPONSIBILITY FOR ANY CONCLUSIONS OR INTERPRETATIONS MADE BY THE CONTRACTOR ON THE BASIS OF THE INFORMATION MADE AVAILABLE BY THE TOWN OF ADDISON.

3. SUBSURFACE INVESTIGATION: SUBSURFACE EXPLORATION TO ASCERTAIN THE NATURE OF SOILS, INCLUDING THE AMOUNT OF ROCK, IF ANY, IS THE RESPONSIBILITY OF THE CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE SUCH SUBSURFACE INVESTIGATIONS AS HE DEEMS NECESSARY TO DETERMINE THE NATURE OF THE MATERIAL TO BE ENCOUNTERED. SOME SUBSURFACE EXPLORATION HAS BEEN PERFORMED BY THE GEOTECHNICAL ENGINEER OF RECORD ON THE PROJECT AND IS PROVIDED FOR INFORMATIONAL PURPOSES. THE TOWN OF ADDISON AND ENGINEER DISCLAIM ANY RESPONSIBILITY FOR THE ACCURACY, TRUE LOCATION AND EXTENT OF THE SOILS INFORMATION THAT HAS BEEN PREPARED BY OTHERS. THEY FURTHER DISCLAIM RESPONSIBILITY FOR INTERPRETATION OF THAT DATA BY THE CONTRACTOR, AS IN PROJECTING SOIL BEARING VALUES, ROCK PROFILES, SOILS STABILITY AND THE PRESENCE, LEVEL AND EXTENT OF UNDERGROUND WATER.

4. TOPOGRAPHIC SURVEY: TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THE PLANS IS PROVIDED FOR INFORMATIONAL PURPOSES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE INFORMATION SHOWN IS CORRECT, AND SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY ERRORS, DISCREPANCIES OR OMISSIONS TO THE SURVEY INFORMATION PROVIDED. ANY COSTS INCURRED AS THE RESULT OF NOT CONFIRMING THE ACTUAL SURVEY SHALL BE BORNE BY THE CONTRACTOR.

5. COMPLIANCE WITH LAWS: THE CONTRACTOR SHALL FULLY COMPLY WITH ALL LOCAL, STATE AND FEDERAL LAWS, INCLUDING ALL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS CONTRACT AND THE WORK TO BE DONE THEREUNDER, WHICH EXIST OR MAY BE ENACTED LATER BY GOVERNMENTAL BODIES HAVING JURISDICTION OR AUTHORITY FOR SUCH ENACTMENT. ALL WORK REQUIRED UNDER THIS CONTRACT SHALL COMPLY WITH ALL REQUIREMENTS OF ANY VARIANCE, REGULATION, PERMIT OR LICENSE. IF THE CONTRACTOR FINDS THAT THERE IS A VARIANCE, HE SHALL IMMEDIATELY REPORT THIS TO THE TOWN OF ADDISON FOR RESOLUTION.

6. PUBLIC CONVENIENCE AND SAFETY: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

MATERIALS STORED ON THE WORK SITE SHALL BE SO PLACED, AND THE WORK SHALL AT ALL TIMES BE SO CONDUCTED, AS TO CAUSE NO GREATER OBSTRUCTION TO THE TRAVELING PUBLIC THAN IS CONSIDERED ACCEPTABLE BY THE GOVERNING AUTHORITIES. THE MATERIALS EXCAVATED SHALL BE PLACED SO AS NOT TO ENDANGER THE WORK OR PREVENT FREE ACCESS TO ALL FIRE HYDRANTS, WATER VALVES, GAS VALVES, MANHOLES, AND FIRE ALARM OR POLICE CALL BOXES IN THE VICINITY.

THE TOWN OF ADDISON RESERVES THE RIGHT TO REMEDY ANY NEGLECT ON THE PART OF THE CONTRACTOR WITH REGARDS TO THE PUBLIC CONVENIENCE AND SAFETY WHICH MAY COME TO THE TOWN OF ADDISON'S ATTENTION, AFTER 24 HOURS NOTICE IN WRITING TO THE CONTRACTOR, SAVE IN CASES OF EMERGENCY, WHEN THE TOWN OF ADDISON SHALL HAVE THE RIGHT TO REMEDY ANY NEGLECT WITHOUT NOTICE; AND, IN EITHER CASE, THE COST OF SUCH WORK DONE BY THE TOWN OF ADDISON SHALL BE DEDUCTED FROM THE MONIES DUE OR TO BECOME DUE THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE TOWN OF ADDISON AND THE GOVERNING AUTHORITIES WHEN ANY STREET IS TO BE CLOSED OR OBSTRUCTED; SUCH NOTICE SHALL IN THE CASE OF MAJOR THOROUGHFARES OR STREETS UPON WHICH TRANSIT BY THE GOVERNING AUTHORITIES, KEEP ANY STREET OR STREETS IN CONDITION FOR UNOBSTRUCTED USE BY EMERGENCY SERVICES. WHERE THE CONTRACTOR IS REQUIRED TO CONSTRUCT TEMPORARY BRIDGES OR TO MAKE OTHER ARRANGEMENTS FOR CROSSING OVER DITCHES OR STREAMS, HIS RESPONSIBILITY FOR ACCIDENTS SHALL INCLUDE THE ROADWAY APPROACHES AS WELL AS THE STRUCTURES OF SUCH CROSSINGS.

7. STORM WATER POLLUTION PREVENTION PLAN (SWP3): THE CONTRACTOR SHALL COMPLY WITH THE CONDITIONS OF THE SWP3 WHILE CONDUCTING HIS ACTIVITIES ON THE PROJECT. IN ADDITION TO CONSTRUCTING THOSE ITEMS INDICATED ON THE PLAN SHEETS, COMPLIANCE WITH THE SWP3 INCLUDES CONFORMANCE TO CERTAIN PRACTICES AND PROCEDURES (IDENTIFIED IN THE SWP3) DURING PROJECT CONSTRUCTION.

8. PERMITS AND LICENSES: THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND LICENSES NECESSARY FOR THE EXECUTION OF THE WORK AND SHALL FULLY COMPLY WITH ALL THEIR TERMS AND CONDITIONS. WHENEVER THE WORK UNDER THIS CONTRACT REQUIRES THE OBTAINING OF PERMITS FROM THE GOVERNING AUTHORITIES, THE CONTRACTOR SHALL FURNISH DUPLICATE COPIES OF SUCH PERMITS TO THE ENGINEER BEFORE THE WORK COVERED THEREBY IS STARTED. NO WORK WILL BE ALLOWED TO PROCEED BEFORE SUCH PERMITS ARE OBTAINED.

9. BONDS: PERFORMANCE, PAYMENT AND MAINTENANCE BONDS WILL BE REQUIRED FROM THE CONTRACTOR FOR ALL WORK CONSIDERED TO BE "PUBLIC" IMPROVEMENTS. BONDS SHALL BE IN THE FORM AND IN THE AMOUNTS AS REQUIRED BY THE GOVERNING AUTHORITIES.

10. VENDOR'S CERTIFICATION: ALL MATERIALS USED IN CONSTRUCTION SHALL HAVE A VENDOR'S CERTIFIED TEST REPORT. TEST REPORTS SHALL BE DELIVERED TO THE ENGINEER BEFORE PERMISSION WILL BE GRANTED FOR USE OF THE MATERIAL. ALL VENDOR'S TEST REPORTS SHALL BE SUBJECT TO REVIEW BY THE ENGINEER, AND SHALL BE SUBJECT TO VERIFICATION BY TESTING OF SAMPLES OF MATERIALS AS RECEIVED FOR USE ON THE PROJECT. IN THE EVENT ADDITIONAL TESTS ARE REQUIRED, THEY SHALL BE PERFORMED BY AN APPROVED INDEPENDENT TESTING LABORATORY AND SHALL BE PAID FOR BY THE CONTRACTOR.

11. TESTING: THE TESTING AND CONTROL OF ALL MATERIALS USED IN THE WORK SHALL BE DONE BY AN INDEPENDENT TESTING LABORATORY, EMPLOYED AND PAID DIRECTLY BY THE TOWN OF ADDISON. IN THE EVENT THE RESULTS OF INITIAL TESTING DO NOT COMPLY WITH THE PLANS AND SPECIFICATIONS, SUBSEQUENT TESTS NECESSARY TO DETERMINE THE ACCEPTABILITY OF MATERIALS OR CONSTRUCTION SHALL BE FURNISHED AND PAID BY THE CONTRACTOR AS DIRECTED BY THE TOWN OF ADDISON. PAYMENT WILL BE MADE BY DEDUCTION FROM PAYMENT DUE THE CONTRACTOR.

12. INSPECTION: INSPECTION OF THE PROPOSED CONSTRUCTION WILL BE PROVIDED BY AND PAID FOR BY THE TOWN OF ADDISON. THE CONTRACTOR SHALL PROVIDE ASSISTANCE BY PROVIDING EXCAVATION, TRENCH SAFETY, OR OTHER WORK NECESSARY TO FACILITATE INSPECTION ACTIVITIES, AND SHALL GIVE SUFFICIENT NOTICE WELL IN ADVANCE OF PENDING CONSTRUCTION ACTIVITIES TO THE TOWN OF ADDISON FOR SCHEDULING OF INSPECTION SERVICES.

13. SHOP DRAWINGS: THE CONTRACTOR SHALL PROVIDE, REVIEW, APPROVE AND SUBMIT ALL SHOP DRAWINGS, PRODUCT DATA AND SAMPLES REQUIRED BY THE GOVERNING AUTHORITIES AND THE PROJECT CONTRACT DOCUMENTS IN ACCORDANCE WITH ITEM 1.28 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION – NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS.

14. SURVEYING: ALL SURVEYING REQUIRED FOR CONSTRUCTION STAKING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL EMPLOY A REGISTERED PROFESSIONAL LAND SURVEYOR TO PREFORM ALL SURVEY, LAYOUT AND MEASUREMENT WORK NECESSARY FOR THE COMPLETION OF THE PROJECT.

15. PROTECTION OF PROPERTY CORNERS AND BENCHMARKS: THE CONTRACTOR SHALL PROTECT ALL PROPERTY CORNER MARKERS AND BENCHMARKS, AND WHEN ANY SUCH MARKERS OR MONUMENTS ARE IN DANGER OF BEING DISTURBED, THEY SHALL BE PROPERLY REFERENCED AND IF DISTURBED SHALL BE RESET BY A REGISTERED PUBLIC SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.

16. EXISTING STRUCTURES: THE PLANS SHOW THE LOCATION OF ALL KNOWN SURFACE AND SUBSURFACE STRUCTURES, HOWEVER, THE TOWN OF ADDISON DOES NOT ASSUME NO RESPONSIBILITY FOR FAILURE TO SHOW ANY OR ALL OF THESE STRUCTURES ON THE PLANS, OR TO SHOW THEM IN THEIR EXACT LOCATION. SUCH FAILURE SHALL NOT BE CONSIDERED SUFFICIENT BASIS FOR CLAIMS FOR ADDITIONAL COMPENSATION FOR EXTRA WORK OR FOR INCREASING THE PAY QUANTITIES IN ANY MANNER WHATSOEVER, UNLESS THE OBSTRUCTION ENCOUNTERED IS SUCH AS TO REQUIRE CHANGES IN THE LINES OR GRADES, OR REQUIRE THE CONSTRUCTION OF SPECIAL WORK, FOR WHICH PROVISIONS ARE NOT MADE IN THE PLANS.

17. PROTECTION OF EXISTING UTILITIES: AS REQUIRED BY "THE TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT", TEXAS ONE CALL SYSTEM MUST BE CONTACTED (800-245-4545) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATIONS BEING PERFORMED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT TEXAS ONE CALL SYSTEM.

THE LOCATION AND DIMENSIONS SHOWN ON THE PLANS RELATIVE TO EXISTING UTILITIES ARE BASED ON THE BEST RECORDS AND/OR FIELD INFORMATION AVAILABLE AND ARE NOT GUARANTEED BY THE TOWN OF ADDISON OR ENGINEER TO BE ACCURATE AS TO LOCATION AND DEPTH. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ADJACENT AND/OR CONFLICTING UTILITIES SUFFICIENTLY IN ADVANCE OF HIS ACTIVITIES IN ORDER THAT HE MAY NEGOTIATE SUCH LOCAL ADJUSTMENTS AS NECESSARY IN THE CONSTRUCTION PROCESS TO PROVIDE ADEQUATE CLEARANCES.

THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL EXISTING UTILITIES, SERVICES AND STRUCTURES ENCOUNTERED, WHETHER OR NOT THEY ARE INDICATED ON THE PLANS. ANY DAMAGE TO UTILITIES RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED AT HIS EXPENSE. TO AVOID UNNECESSARY INTERFERENCE'S OR DELAYS, THE CONTRACTOR SHALL COORDINATE ALL UTILITY REMOVALS, REPLACEMENTS AND CONSTRUCTION WITH THE APPROPRIATE GOVERNING AUTHORITIES, THEN REQUEST WRITTEN AUTHORIZATION FROM THE ENGINEER. THE TOWN OF ADDISON WILL NOT BE LIABLE FOR DAMAGES DUE TO DELAY AS A RESULT OF THE ABOVE.

18. DAMAGE TO EXISTING FACILITIES: ALL UTILITIES, PAVEMENT, SIDEWALKS, WALLS, FENCES, ETC. NOT DESIGNATED TO BE REMOVED BUT THAT ARE DAMAGED DURING CONSTRUCTION ACTIVITIES SHALL BE REPLACED TO A CONDITION AS GOOD AS OR BETTER THAN THE CONDITIONS PRIOR TO STARTING THE WORK, SOLELY AT THE EXPENSE OF THE CONTRACTOR.

19. FIRE AND LIFE SAFETY SYSTEMS: CONTRACTOR SHALL NOT REMOVE, DISABLE OR DISRUPT EXISTING FIRE OR LIFE SAFETY SYSTEMS WITHOUT WRITTEN PERMISSION FROM THE GOVERNING AUTHORITY.

20. TRENCH SAFETY: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND MAINTAIN A VIABLE TRENCH SAFETY SYSTEM AT ALL TIMES DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR IS DIRECTED TO BECOME KNOWLEDGEABLE AND FAMILIAR WITH THE STANDARDS AS SET BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND THE STATE OF TEXAS LAW CONCERNING TRENCHING AND SHORING. THE CONTRACTOR SHALL PROVIDE TRENCH SAFETY SYSTEM PLANS, PREPARED AND SEALED BY A PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF TEXAS, FOR THE IMPLEMENTATION OF SAFETY CONTROL MEASURES, MEETING THE REQUIREMENTS OF THE GOVERNING AUTHORITIES, THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT.

21. SAFETY RESTRICTIONS – WORK NEAR HIGH VOLTAGE LINES: THE FOLLOWING PROCEDURES WILL BE FOLLOWED REGARDING THE SUBJECT ITEM ON THIS CONTRACT:

A. A WARNING SIGN NOT LESS THAN FIVE INCHES BY SEVEN INCHES PAINTED YELLOW WITH BLACK LETTERS THAT ARE LEGIBLE AT 12 FEET SHALL BE PLACED INSIDE AND OUTSIDE VEHICLES SUCH AS CRANES, DERRICKS, POWER SHOVELS, DRILLING RIGS, PILE DRIVER, HOISTING EQUIPMENT OR SIMILAR APPARATUS. THE WARNING SIGN SHALL READ AS FOLLOWS: "WARNING – UNLAWFUL TO OPERATE THIS EQUIPMENT WITHIN SIX FEET OF HIGH VOLTAGE LINES."

B. EQUIPMENT THAT MAY BE OPERATED WITHIN TEN FEET OF HIGH VOLTAGE LINES SHALL HAVE AN INSULATING CAGE–TYPE OF GUARD ABOUT THE BOOM OR ARM, EXCEPT BACKHOES OR DIPPERS, AND INSULATOR LINKS ON THE LIFT HOOK CONNECTIONS.

C. WHEN NECESSARY TO WORK WITHIN SIX FEET OF HIGH VOLTAGE ELECTRIC LINES, NOTIFY THE POWER COMPANY WHO WILL ERECT TEMPORARY MECHANICAL BARRIERS, DE–ENERGIZE THE LINE OR RAISE OR LOWER THE LINE. THE WORK DONE BY THE POWER COMPANY SHALL BE AT THE EXPENSE OF THE CONTRACTOR. THE NOTIFYING DEPARTMENT SHALL MAINTAIN AN ACCURATE LOG OF ALL SUCH CALLS TO THE POWER COMPANY AND SHALL RECORD ACTION TAKEN IN EACH CASE.

D. THE CONTRACTOR IS REQUIRED TO MAKE ARRANGEMENTS WITH THE POWER COMPANY FOR THE TEMPORARY RELOCATION OR RAISING OF HIGH VOLTAGE LINES AT THE CONTRACTOR'S SOLE COST AND EXPENSE.

E. NO PERSON SHALL WORK WITHIN SIX FEET OF A HIGH VOLTAGE LINE WITHOUT PROTECTION HAVING BEEN TAKEN AS OUTLINED IN PARAGRAPH C. ABOVE.

22. TRAFFIC CONTROL: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DEVELOP AND SUBMIT FOR APPROVAL BY THE GOVERNING AUTHORITIES, A TRAFFIC CONTROL PLAN, PREPARED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS, OUTLINING TRAFFIC MANAGEMENT PROCEDURES TO BE PROVIDED DURING CONSTRUCTION. TRAFFIC CONTROL MEASURES SHALL BE PROVIDED IN ACCORDANCE WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:

A. CONSTRUCTION OF SIGNING AND BARRICADES SHALL CONFORM WITH THE "2003 TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", AS CURRENTLY AMENDED, TEXAS DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION.

B. THE CONTRACTOR SHALL BE REQUIRED TO FURNISH BARRICADES, FLARES, FLAGMEN, ETC., FOR THE PROTECTION OF THE PUBLIC, EMPLOYEES AND THE WORK.

C. THE CONTRACTOR SHALL PERFORM HIS WORK IN SUCH A MANNER AS TO CREATE A MINIMUM OF INTERRUPTION TO TRAFFIC ALONG ADJACENT ROADWAYS. TWO WAY TRAFFIC MUST BE MAINTAINED ON ALL ROADWAYS AT ALL TIMES THROUGHOUT CONSTRUCTION UNLESS WRITTEN PERMISSION IS GRANTED BY THE GOVERNING AUTHORITIES.

D. ALL SIGNAGE, MARKINGS, LIGHTING, BARRICADES, FLAGMEN AND OTHER DEVICES AND PERSONNEL REQUIRED FOR TRAFFIC CONTROL DURING CONSTRUCTION OF THE PROJECT WILL BE INCLUDED IN THE CONTRACT AMOUNT.

E. ALL TRAFFIC CONTROL DEVICES USED DURING NIGHTTIME SHALL BE REFLECTORIZED, ILLUMINATED FROM WITHIN OR EXTERNALLY ILLUMINATED.

F. THE CONTRACTOR SHALL NOT REMOVE ANY REGULATORY SIGN, INSTRUCTIONAL SIGN, WARNING SIGN, STREET NAME SIGN OR ANY SIGNAL, WHICH CURRENTLY EXISTS, WITHOUT THE CONSENT OF THE GOVERNING AUTHORITIES.

G. THE CONTRACTOR SHALL MAINTAIN AND REPLACE WHERE NECESSARY ALL SIGNS, LIGHTS, MARKINGS AND TEMPORARY PAVEMENT THROUGHOUT THE CONSTRUCTION PERIOD.

H. THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL MEASURES AT THE END OF CONSTRUCTION AND RESTORE UNIMPROVED PAVEMENT AND OTHER DISTURBED AREAS TO THEIR ORIGINAL CONDITION.

23. ACCESS TO ADJACENT PROPERTIES: ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE DIRECTED BY THE GOVERNING AUTHORITIES.

24. ACCESS ROUTES, STAGING AREAS AND STORAGE AREAS: ALL PRIVATE HAUL ROADS AND ACCESS ROUTES AND THE LOCATION OF ALL STAGING AREAS AND STORAGE AREAS SHALL BE SUBJECT TO THE APPROVAL OF THE TOWN OF ADDISON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND REPAIRING ALL ROADS AND OTHER FACILITIES USED DURING CONSTRUCTION. UPON COMPLETION OF THE PROJECT, ALL HAUL ROADS, ACCESS ROADS, STAGING AREAS AND STORAGE AREAS SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT AT THE TIME THE CONTRACTOR COMMENCES WORK ON THE PROJECT.

25. PARKING OF CONSTRUCTION EQUIPMENT: AT NIGHT AND DURING ALL OTHER PERIODS OF TIME WHEN EQUIPMENT IS NOT BEING ACTIVELY USED FOR THE CONSTRUCTION WORK, THE CONTRACTOR SHALL PARK THE EQUIPMENT AT LOCATIONS, WHICH ARE APPROVED BY THE TOWN OF ADDISON. DURING THE CONSTRUCTION OF THE PROJECT, THE CONTRACTOR SHALL COMPLY WITH THE PRESENT ZONING REQUIREMENTS OF THE GOVERNING AUTHORITIES IN THE USE OF VACANT PROPERTY FOR STORAGE PURPOSES. THE CONTRACTOR SHALL ALSO PROVIDE ADEQUATE BARRICADES, LIGHTS AND MARKERS AS DIRECTED BY THE TOWN OF ADDISON, THE GOVERNING AUTHORITIES, THE PUBLIC AND THE OTHER WORK. ALL BARRICADES, LIGHTS, AND MARKERS MUST MEET THE REQUIREMENTS OF THE GOVERNING AUTHORITIES' REGULATIONS.

26. WATER FOR CONSTRUCTION: THE CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENTS FOR PURCHASING WATER FROM THE GOVERNING AUTHORITY FOR HIS USE ON THE PROJECT SITE. COSTS ASSOCIATED WITH THIS SERVICE SHALL BE INCLUDED IN THE CONTRACT AMOUNT.

27. TEMPORARY ELECTRIC AND COMMUNICATIONS FOR CONSTRUCTION: THE CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENTS FOR INSTALLATION AND PURCHASING OF TEMPORARY ELECTRIC AND COMMUNICATIONS SERVICES FROM THE GOVERNING AUTHORITIES FOR HIS USE ON THE PROJECT SITE. COSTS ASSOCIATED WITH THESE SERVICES SHALL BE INCLUDED IN THE CONTRACT AMOUNT.

28. FENCES: ALL FENCES ENCOUNTERED AND REMOVED DURING CONSTRUCTION, EXCEPT THOSE DESIGNATED TO BE REMOVED OR RELOCATED, SHALL BE RESTORED TO THE ORIGINAL OR BETTER THAN CONDITION UPON COMPLETION OF THE PROJECT. WHERE WIRE FENCING, EITHER WIRE MESH OR BARBED WIRE, IS TO BE CROSSED, THE CONTRACTOR SHALL SET CROSS–BRACED POSTS ON EITHER SIDE OF THE CROSSING. TEMPORARY FENCING SHALL BE ERECTED IN PLACE OF THE FENCING REMOVED WHENEVER THE WORK IS NOT IN PROGRESS, AND WHEN THE SITE IS VACATED OVERNIGHT AND/OR AT ALL TIMES TO PREVENT PERSONS AND/OR LIVESTOCK FROM ENTERING THE CONSTRUCTION AREA. THE COST OF FENCE REMOVAL, TEMPORARY CLOSURES AND REPLACEMENT SHALL BE INCLUDED IN THE CONTRACT.

29. DRAINAGE CHANNELS: WHERE EXISTING DRAINAGE CHANNELS ARE TEMPORARILY DISTURBED OR BLOCKED DURING CONSTRUCTION, IT SHALL BE RESTORED TO THE ORIGINAL CONDITION, GRADE AND CROSS SECTION AFTER CONSTRUCTION IS COMPLETED.

30. COORDINATION WITH OTHERS: IN THE EVENT THAT OTHER CONTRACTORS ARE DOING WORK IN THE SAME AREA SIMULTANEOUSLY WITH THE PROJECT, THE CONTRACTOR SHALL COORDINATE HIS PROPOSED CONSTRUCTION WITH THAT OF THE OTHER CONTRACTORS.

31. CONDITION OF SITE DURING CONSTRUCTION: DURING CONSTRUCTION OF THE WORK, THE CONTRACTOR SHALL, AT ALL TIMES, KEEP THE SITE OF THE WORK AND ADJACENT PREMISES AS FREE FROM MATERIAL, DEBRIS AND RUBBISH AS IS PRACTICABLE AND SHALL REMOVE SAME FROM ANY PORTION OF THE SITE IF, IN THE OPINION OF THE TOWN OF ADDISON, SUCH MATERIAL, DEBRIS OR RUBBISH CONSTITUTES A NUISANCE OR IS OBJECTIONABLE. IN CASE OF FAILURE ON THE PART OF THE CONTRACTOR UNDER HIS CONTRACT, OR WHERE SUFFICIENT CONTRACT FUNDS ARE UNAVAILABLE FOR THIS PURPOSE, THE CONTRACTOR OR HIS SURETY SHALL REIMBURSE THE TOWN OF ADDISON FOR ALL SUCH COSTS.

32. EXISTING ROADWAYS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE CLEANLINESS OF EXISTING PAVED ROADS. ALL COSTS ASSOCIATED WITH MAINTAINING THE CLEANLINESS OF EXISTING ROADS SHALL BE INCLUDED IN THE CONTRACT AMOUNT.

33. DUST CONTROL: THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO CONTROL DUST ON THE PROJECT SITE BY SPRINKLING OF WATER, OR ANY OTHER METHODS APPROVED BY THE GOVERNING AUTHORITIES, AND SHALL PROVIDE ALL EQUIPMENT AND PERSONNEL REQUIRED TO PREVENT DUST FROM BECOMING A NUISANCE TO THE ADJACENT PROPERTIES.

34. CLEAN–UP FOR FINAL ACCEPTANCE: THE CONTRACTOR SHALL MAKE A FINAL CLEAN UP OF ALL PARTS OF THE WORK BEFORE ACCEPTANCE BY THE TOWN OF ADDISON. THIS CLEAN UP SHALL INCLUDE REMOVAL OF ALL OBJECTIONABLE MATERIALS AND, IN GENERAL, PREPARING THE SITE OF THE WORK IN AN ORDERLY MANNER OF APPEARANCE.

35. REMOVAL OF DEFECTIVE AND UNAUTHORIZED WORK: ALL WORK WHICH HAS BEEN REJECTED OR CONDEMNED SHALL BE REPAIRED, OR IF IT CANNOT BE REPAIRED SATISFACTORILY, IT SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. DEFECTIVE MATERIALS SHALL BE IMMEDIATELY REMOVED FROM THE WORK SITE. WORK DONE BEYOND THE LINE OR NOT IN CONFORMITY WITH THE GRADES SHOWN ON THE DRAWINGS OR AS PROVIDED, WORK DONE WITHOUT REQUIRED INSPECTION, OR ANY EXTRA OR UNCLASSIFIED WORK DONE WITHOUT WRITTEN AUTHORITY AND PRIOR AGREEMENT IN WRITING AS TO PRICES, SHALL BE AT THE CONTRACTOR'S RISK, AND WILL BE CONSIDERED UNAUTHORIZED, AND AT THE OPTION OF THE TOWN OF ADDISON MAY NOT BE MEASURED AND PAID FOR AND MAY BE ORDERED REMOVED AT THE CONTRACTOR'S EXPENSE. UPON FAILURE OF THE CONTRACTOR TO REPAIR SATISFACTORILY OR TO REMOVE AND REPLACE, IF SO DIRECTED, REJECTED, UNAUTHORIZED OR CONDEMNED WORK OR MATERIALS IMMEDIATELY AFTER RECEIVING NOTICE FROM THE TOWN OF ADDISON, THE TOWN OF ADDISON WILL, AFTER GIVING WRITTEN NOTICE TO THE CONTRACTOR, HAVE THE AUTHORITY TO CAUSE DEFECTIVE WORK TO BE REMEDIED OR REMOVED AND REPLACED, OR TO CAUSE UNAUTHORIZED WORK TO BE REMOVED AND TO DEDUCT THE COST THEREOF FROM ANY MONIES DUE OR TO BECOME DUE THE CONTRACTOR.

36. DISPOSITION AND DISPOSAL OF EXCESS AND UNSUITABLE MATERIALS: ALL MATERIALS TO BE REMOVED FROM THE SITE INCLUDING BUT NOT LIMITED TO EXCESS MATERIAL AND UNSUITABLE MATERIALS SUCH AS LARGE ROCKS, REFUSE, AND OTHER DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE PROJECT AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL ALSO COMPLY WITH ALL APPLICABLE LAWS GOVERNING SPILLAGE OF DEBRIS WHILE TRANSPORTING TO A DISPOSAL SITE.

37. SEEDING: THE CONTRACTOR SHALL PROVIDE SEEDING, WATERING, FERTILIZING AND REQUIRED MAINTENANCE FOR THE GRASSING OF ALL UNPAVED AREAS OF DEDICATED RIGHT–OF–WAY, EASEMENTS, AND ALL OTHER DISTURBED AREAS OF CONSTRUCTION FOR THE PROJECT. SEEDING SHALL ALSO BE PROVIDED IN CONFORMANCE WITH THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN IN ORDER TO ESTABLISH A GRASS COVER ON DISTURBED AREAS SUBJECTED TO THE EROSION OF THE SOIL SURFACE.

38. RECORD DRAWINGS: THE CONTRACTOR SHALL MAINTAIN AN ACCURATE RECORD OF THE INSTALLATION OF ALL MATERIALS AND SYSTEMS COVERED BY THE PROJECT CONTRACT DOCUMENTS. THESE RECORD PRINTS WILL BE REVIEWED BY THE ENGINEER EACH MONTH PRIOR TO THE PRELIMINARY REVIEW OF CONTRACTOR'S REQUEST FOR PAYMENT. IF THE DRAWINGS ARE NOT COMPLETE, ACCURATE AND UP–TO DATE, THE ENGINEER WILL NOT ACCEPT THE PAYMENT REQUEST. THE COMPLETED SET OF "RECORD" DRAWINGS MUST BE DELIVERED TO THE ENGINEER BEFORE REQUESTING FINAL PAYMENT.

ABBREVIATIONS

APPROX	APPROXIMATELY
ASPH	ASPHALT
BC	BACK OF CURB
B–B	BACK TO BACK OF CURB
BM	BENCHMARK
BW	BOTTOM OF WALL
CATV	CABLE TV
CFS	CUBIC FEET PER SECOND
CI	CURB INLET
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC	CONCRETE
CONST	CONSTRUCT
CL	CENTER LINE
DCO	DOUBLE CLEANOUT
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DW	DOMESTIC WATER
EL	ELEVATION
EMH	ELECTRIC MANHOLE
EP	EDGE OF PAVEMENT
EX	EXISTING
FC	FACE OF CURB
F–F	FACE TO FACE OF CURB
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FM	FORCE MAIN
FO	FIBER OPTICS
FP	FINISHED PAD
FPS	FEET PER SECOND
FL	FLOW LINE
FUT	FUTURE
FW	FIRE WATER
G	GAS
GI	GRATE INLET
GM	GAS METER
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HDWL	HEADWALL
HMAC	HOT MIX ASPHALTIC CONCRETE
HORIZ	HORIZONTAL
HP	HIGH POINT
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
IRR	IRRIGATION
JB	JUNCTION BOX
JT

PONTE AVE (UNDER SEPARATE CONTRACT)

PHASE 1 – NORTH
(FUTURE CONSTRUCTION)

VITRUVIAN WAY
UNDER SEPARATE CONTRACT

PROPERTY CORNER
N 8890.84
E 11776.65

PROPERTY CORNER
N 8932.98
E 11797.67

PROPERTY CORNER
N 8864.26
E 11830.64

PROPERTY CORNER
N 8864.26
E 11830.64

PROPERTY CORNER
N 8692.87
E 11577.64

PROPERTY CORNER
N 8678.15
E 11585.12

REMOVE AND DISPOSE OF EXIST 54" SLOPING HDWL UNDER SEPARATE CONTRACT

REMOVE & STOCKPILE EXIST 12" TO 18" ROCK RIP RAP UNDER SEPARATE CONTRACT

PROPERTY CORNER
N 8239.25
E 11395.25

PROPERTY CORNER
N 8315.17
E 11461.72

PROPERTY CORNER
N 8305.38
E 11472.90

PROPERTY CORNER
N 8310.38
E 11548.19

PROPERTY CORNER
N 8386.86
E 11615.15

PROPERTY CORNER
N 8388.44
E 11638.93

PROPERTY CORNER
N 8525.77
E 11759.17

REMOVE & DISPOSE OF 310 LF EXIST 8"SS

REMOVE AND DISPOSE OF 5-10'X10' REINF CONC BOX CULVERT AND WINGWALLS AND ASPHALT PAVEMENT UNDER SEPARATE CONTRACT

EXIST PVMT TO REMAIN

PROP STORM DRAIN & DITCH OUT UNDER SEPARATE CONTRACT

REMOVE & DISPOSE OF EXIST UGE CABLE

REMOVE & DISPOSE OF 475 LF EXIST 66" CMP

EXISTING CMP TO BE REMOVED BY OTHERS

REMOVE AND DISPOSE OF EXIST METAL BEAM GUARD FENCE UNDER SEPARATE CONTRACT

REMOVE AND DISPOSE OF EXIST 5' CURB INLET UNDER SEPARATE CONTRACT

REMOVE AND DISPOSE OF EXIST ASPHALT PAVEMENT AND CONCRETE CURB & GUTTER UNDER SEPARATE CONTRACT

EXIST TREES TO REMAIN

APPROXIMATE LOCATION OF WATER

REMOVE & DISPOSE OF 415 LF EXIST 10" SS

PROPERTY CORNER
N 8706.97
E 12010.29

PROPERTY CORNER
N 8681.64
E 12137.60

PROPERTY CORNER
N 8147.94
E 11590.61

PROPERTY CORNER
N 8102.80
E 11551.09

PROPERTY CORNER
N 8150.85
E 11634.40

TREE PROTECTION TYPICAL

FARMERS BRANCH CREEK

APPROXIMATE LOCATION OF WATER

EXIST BRIDGE TO BE REMOVED UNDER SEPARATE CONTRACT

PROPERTY CORNER
N 8104.74
E 11687.07

REMOVE & STOCKPILE EXIST ROCK RIP RAP

EXIST CONC RIP RAP TO BE REMOVED UNDER SEPARATE CONTRACT

PROPERTY CORNER
N 8705.11
E 12206.94

PROPERTY CORNER
N 8702.80
E 12300.34

REMOVE & DISPOSE OF EXIST 8"W

REMOVE & SALVAGE EXIST FIRE HYDRANT

EXIST CONC RIP RAP TO BE REMOVED UNDER SEPARATE CONTRACT

PROPERTY CORNER
N 8470.88
E 12167.40

PROPERTY CORNER
N 8116.00
E 11856.69

PROPERTY CORNER
N 8505.01
E 12242.92

PROPERTY CORNER
N 8504.85
E 12299.79

FUTURE BELLA LANE

MATCHLINE SHT C102

MATCHLINE SHT C103

NORTH

0 20 40 60 80
GRAPHIC SCALE IN FEET
SCALE: 1"=40'

DEMOLITION NOTES:

1. GENERAL CONSTRUCTION NOTES: REFER TO SHEET C100 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THE PROJECT.

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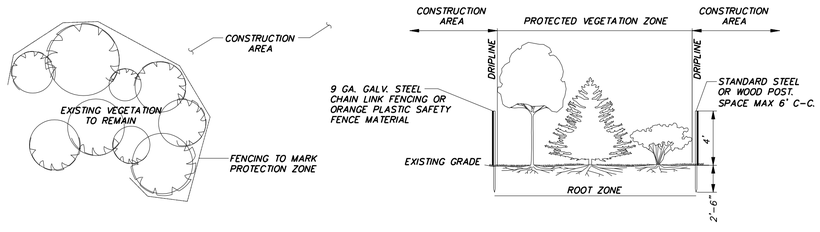
WARNING

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BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE
1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
11/3/09



TREE PROTECTION DETAIL
NOT TO SCALE

TREE PROTECTION NOTES :

1. GENERAL CONSTRUCTION NOTES: REFER TO SHEET C100 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THE PROJECT.

2. TREE PROTECTION IDENTIFICATION: PRIOR TO GRADING, BRUSH REMOVAL, OR SITE CONSTRUCTION, THE CONTRACTOR SHALL MEET WITH THE OWNER AND/OR DEVELOPER AT THE SITE TO ASCERTAIN THE AREAS OF THE EXISTING TREES TO BE PROTECTED AND PRESERVED. THE CONTRACTOR SHALL THEN CLEARLY TAG OR MARK ALL TREES TO BE PROTECTED AND PRESERVED. NO TREES SHALL BE CUT AND/OR REMOVED FROM THE PROJECT SITE UNTIL SPECIFICALLY AUTHORIZED IN WRITING BY THE GOVERNING AUTHORITY AND/OR DEVELOPER.

3. TREE PROTECTION FENCE: THE CONTRACTOR SHALL ERECT A FENCE (PER DETAILS) AROUND EACH TREE TO PREVENT THE PLACEMENT OF DEBRIS OR FILL WITHIN THE DRIP LINE OF THE TREE. THE TREE PROTECTION FENCE LOCATION SHOWN ON THE PLAN IS SCHEMATIC IN NATURE.

4. TREE CANOPY RESTRICTIONS: DURING CONSTRUCTION, THE CONTRACTOR SHALL PROHIBIT CLEANING, PARKING OR STORAGE OF EQUIPMENT OR MATERIALS UNDER THE CANOPY OF ANY TREE OR GROUP OF TREES BEING PRESERVED. THE CONTRACTOR SHALL NOT ALLOW THE DISPOSAL OF ANY WASTE MATERIAL SUCH AS, BUT NOT LIMITED TO, PAINT, OIL SOLVENTS, ASPHALT, CONCRETE, MORTAR, ETC., IN THE CANOPY AREA.

5. TREE ATTACHMENT RESTRICTIONS: NO ATTACHMENTS OR WIRES OF ANY KIND, OTHER THAN THOSE OF A PROTECTIVE NATURE, SHALL BE ATTACHED TO ANY TREE.

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

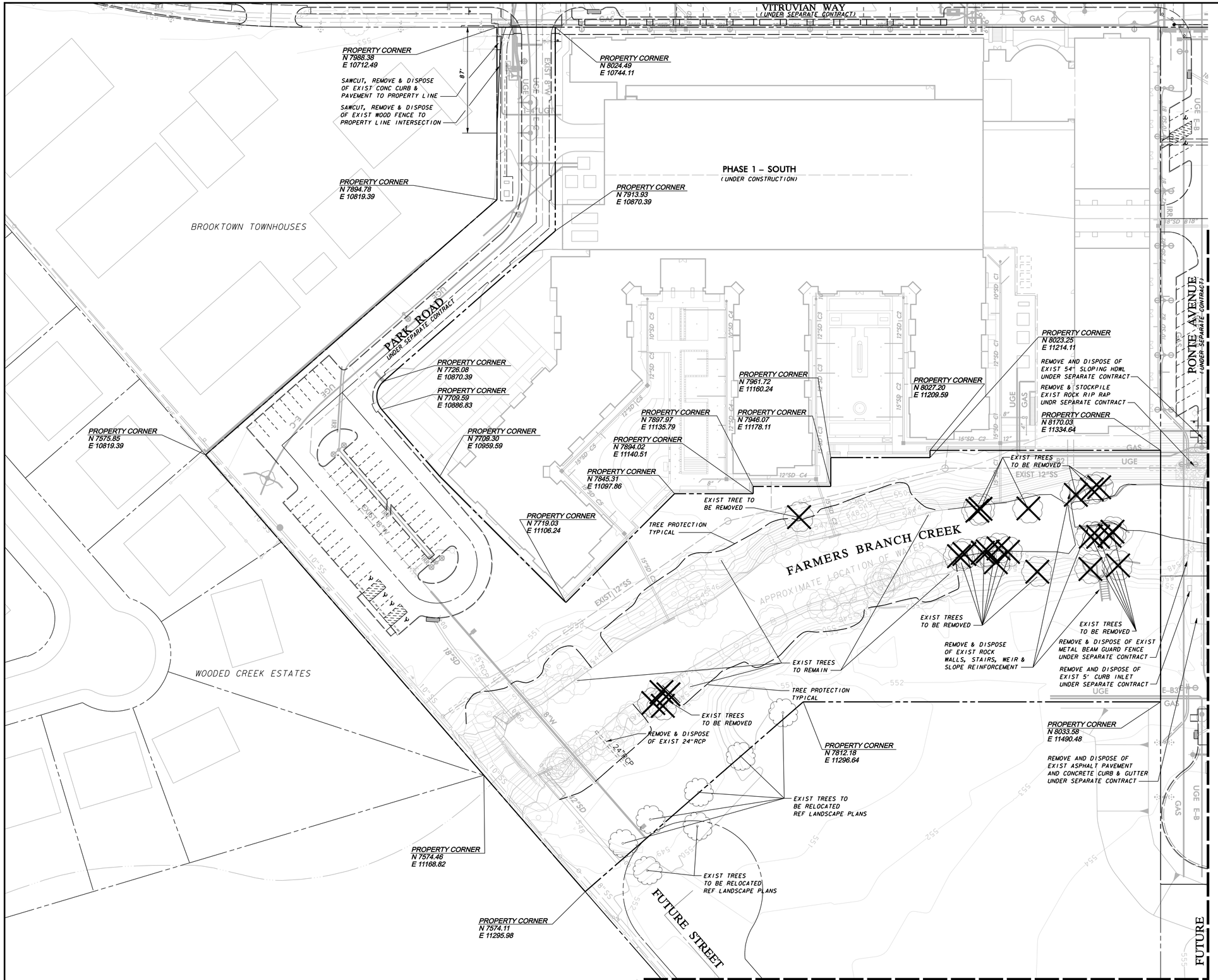
DEMOLITION PLAN NORTH

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C101

BID

PARK AND STREETSCAPE IMPROVEMENTS – VITRUVIAN PARK





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SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

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STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
11/3/09

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

DEMOLITION PLAN SOUTH

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C102

BID

PARK AND STREETSCAPE IMPROVEMENTS – VITRUVIAN PARK

MATCHLINE SHT C101

MATCHLINE SHT C101

FUTURE PONTE AVE

EXIST POWER POLE TO BE REMOVED BY OTHERS

EXIST OHE TO BE REMOVED BY OTHERS

EXIST OHE TO REMAIN

EXIST POWER POLE TO REMAIN

REMOVE AND DISPOSE OF EXIST 8"W

REMOVE AND DISPOSE OF EXIST ASPHALT PAVEMENT

REMOVE AND DISPOSE OF EXIST CONC CURB

REMOVE AND DISPOSE OF EXIST ASPHALT PAVEMENT

REMOVE AND DISPOSE OF EXIST CONC CURB

PROPERTY CORNER
N 7572.77
E 11776.02

PROPERTY CORNER
N 7571.07
E 12380.18

NORTH

0 20 40 60 80
GRAPHIC SCALE IN FEET
SCALE: 1"=40'

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STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
11/3/09

NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

DEMOLITION PLAN EAST

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C103

BID

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

MATCHLINE SHT C202

PHASE 1 – NORTH
(FUTURE CONSTRUCTION)

ISLAND 1

ISLAND 2

BELVEDERE

AMPHITHEATER

GROTTO

ESPLANADE

FARMERS BRANCH CREEK

VITRUVIAN WAY

RR / CONC

6'X5'SD SD-A1

24" SD

22" SD

30" SD

N41° 12' 11"E 471.68'

S41° 12' 11" W 182.53'

S48° 47' 49" E 231.33'

S26° 56' 02" E 16.51'

N48° 47' 49" W 238.78'

N89° 50' 23" W 93.41'

S89° 50' 23" E 56.87'

N00° 09' 37" E 200.00'

N71° 18' 00" E 73.20'

S26° 18' 00" W 47.00'

S63° 42' 00" E 60.00'

N63° 42' 00" W 60.00'

CURVE DATA
Δ=48°57'26"
R=100.00'
L= 85.45'

CURVE DATA
Δ=59°54'11"
R=130.00'
L=135.92'

CURVE DATA
Δ=37°45'24"
R=434.00'
L=285.99'

PROPERTY CORNER N 8470.88 E 12167.40
PROPERTY CORNER N 8505.01 E 12242.92
PROPERTY CORNER N 8504.85 E 12299.79
PROPERTY CORNER N 8706.97 E 12010.29
PROPERTY CORNER N 8681.64 E 12137.60
PROPERTY CORNER N 8705.11 E 12206.94
PROPERTY CORNER N 8702.60 E 12300.34
PROPERTY CORNER N 8678.15 E 11585.12
PROPERTY CORNER N 8692.87 E 11577.64
PROPERTY CORNER N 8890.84 E 11776.85
PROPERTY CORNER N 8932.98 E 11797.67
PROPERTY CORNER N 8864.26 E 11830.64
PROPERTY CORNER N 8864.26 E 11830.64
CENTER OF TRANSFORMER PAD N 8901.87 E 11840.30
CORNER N 8729.88 E 11786.10
CORNER N 8778.61 E 11730.45
CORNER N 8843.20 E 11787.08
CORNER N 8794.56 E 11842.74
PROPERTY CORNER N 8525.77 E 11759.17

RADIUS PT N 8377.48 E 11993.84
RADIUS PT N 8668.46 E 11736.71
RADIUS PT N 8728.11 E 11889.83
RADIUS PT N 8466.39 E 12038.47
RADIUS PT N 8482.03 E 12025.75
BEGIN BRIDGE N 8519.87 E 11802.80
BEGIN BRIDGE N 8629.84 E 11938.17
BEGIN BRIDGE N 8659.52 E 11964.18
END BRIDGE N 8521.00 E 11830.63
END WALL N 8469.35 E 12037.36
END WALL N 8480.33 E 12028.42
CENTER N 8362.26 E 12007.45

PC N 8362.06 E 12017.36
PC N 8524.44 E 11805.86
PC N 8525.62 E 11845.77
PC N 8669.58 E 11978.30
PC N 8740.16 E 11895.92
PC N 8549.66 E 11764.54
PC N 8673.64 E 11614.22
PC N 8679.97 E 11636.57
PC N 8479.11 E 12158.00
PC N 8552.41 E 12373.03

PT N 8356.78 E 12007.06
PT N 8361.92 E 12017.36
PT N 8452.30 E 12134.53
PT N 8517.51 E 12242.96
PT N 8517.34 E 12301.32
PT N 8524.16 E 11799.11
PT N 8515.25 E 11798.18
PT N 8515.56 E 11805.91
PT N 8644.18 E 11757.24
PT N 8683.18 E 11771.139
PT N 8731.31 E 11813.29
PT N 8715.80 E 11895.36
PT N 8632.47 E 11935.18
PT N 8692.59 E 12301.82
PT N 8643.45 E 12371.68
PT N 8671.99 E 11636.00
PT N 8681.81 E 11614.82

PRC N 8509.80 E 11789.68
PRC N 8448.72 E 12008.12
PRC N 8314.8 E 12085.68
PRC N 8502.17 E 12098.05
PRC N 8609.17 E 12102.55
PRC N 8647.66 E 12126.82
PRC N 8619.01 E 11932.28
PRC N 8633.74 E 12359.44
PRC N 8515.31 E 11857.02
PRC N 8533.27 E 11788.75
PRC N 8590.92 E 11701.68
PRC N 8679.82 E 11601.96
PRC N 8684.26 E 11580.50
PRC N 8656.56 E 11652.46
PRC N 8700.23 E 11610.58
PRC N 8692.18 E 11655.18
PRC N 8765.34 E 11711.02

PCC N 8462.09 E 11773.78
PCC N 8487.22 E 11831.85
PCC N 8463.64 E 11887.33
PCC N 8501.97 E 11874.54
PCC N 8575.98 E 11783.99
PCC N 8644.38 E 11765.30
PCC N 8630.35 E 11862.07
PCC N 8594.72 E 11969.41
PCC N 8463.42 E 12038.91
PCC N 8483.06 E 12022.93
PCC N 8480.70 E 12078.10
PCC N 8517.92 E 12047.82
PCC N 8474.14 E 12083.50
PCC N 8548.43 E 12130.85
PCC N 8562.78 E 12365.92
PCC N 8712.53 E 11663.93
PCC N 8739.42 E 11684.79
PCC N 8336.80 E 11985.28
PCC N 8352.45 E 12006.77
PCC N 8370.13 E 12025.44

WALL N 8487.24 E 11766.71
WALL N 8544.85 E 11767.64
WALL N 8669.72 E 11983.76
WALL N 8696.68 E 11989.85
WALL N 8799.54 E 11858.32
WALL N 8531.40 E 12370.61
WALL N 8668.40 E 12371.00

CORNER N 8729.88 E 11786.10
CORNER N 8778.61 E 11730.45
CORNER N 8843.20 E 11787.08
CORNER N 8794.56 E 11842.74

LINE DATA		
L	BEARING	LENGTH
1	N41° 12' 56"E	63.98'
2	N48° 47' 04"W	11.07'
3	N48° 47' 04"W	11.07'
4	S41° 12' 56"W	17.75'
5	N48° 47' 49"W	56.32'
6	S41° 12' 07"W	4.66'
7	S48° 47' 33"E	84.43'
8	N48° 47' 16"W	44.52'
9	N02° 17' 46"W	20.07'
10	S04° 32' 34"W	21.08'
11	N89° 50' 23"W	58.37'
12	N48° 47' 49"W	14.59'
13		
14	S41° 12' 11"W	25.57'
15	N41° 12' 11"E	

CURVE DATA				RADIUS POINT	
C	DELTA	RADIUS	LENGTH	NORTHING	EASTING
1	27° 00' 11"	278.24'	131.13'	11539.42	8632.06
2	34° 37' 50"	362.81'	219.29'	11443.16	9522.12
3	04° 45' 32"	329.96'	31.96'	11495.86	8659.94
4	60° 36' 46"	10.00'	10.58'	11798.58	8505.25
5	87° 14' 56"	10.00'	15.23'	11798.71	8534.16
6	33° 53' 26"	60.00'	35.05'	11716.76	8519.10
7	42° 43' 25"	329.96'	32.33'	11733.39	8519.49
8	22° 21' 46"	193.89'	75.68'	11628.73	8411.28
9	57° 38' 34"	85.09'	85.60'	11736.71	8668.46
10	77° 38' 24"	18.00'	24.39'	11634.64	8654.04
11	44° 51' 57"	18.00'	14.09'	11615.58	8691.58
12	74° 58' 06"	18.00'	23.55'	11588.34	8668.05
13	145° 29' 45"	10.00'	25.39'	11615.58	8691.58
14	77° 42' 29"	18.00'	24.41'	11637.93	8697.92
15	14° 35' 37"	85.09'	21.67'	11736.71	8668.46
16	14° 58' 45"	130.53'	34.13'	11776.61	8646.64
17	182° 45' 53"	5.19'	16.57'	11710.35	8771.98
18	137° 01' 48"	3.00'	7.17'	11774.86	8554.90
19	02° 33' 35"	961.88'	43.97'	10830.63	8448.23
20	34° 26' 58"	213.79'	128.54'	11592.14	8518.99
21	63° 10' 02"	37.46'	41.29'	11736.66	8668.52
22	65° 02' 18"	97.41'	110.58'	12063.21	8698.29
23	37° 19' 05"	409.68'	266.83'	12268.00	8234.40
24	70° 09' 44"	108.00'	132.25'	12074.53	8742.16
25	29° 07' 20"	359.34'	182.63'	12300.81	8333.26
26	102° 44' 14"	10.00'	17.93'	12361.68	8643.48
27	77° 56' 21"	10.00'	13.60'	12363.06	8553.20
28	40° 11' 47"	342.68'	240.41'	12268.00	8234.40

CURVE DATA				RADIUS POINT	
C	DELTA	RADIUS	LENGTH	NORTHING	EASTING
29	62° 07' 43"	54.94'	59.58'	12152.84	8498.08
30	46° 18' 24"	40.17'	32.47'	12057.99	8505.17
31	42° 55' 42"	108.27'	82.12'	12014.76	8557.78
32	93° 48' 19"	88.80'	145.38'	12002.68	8361.09
33	11° 52' 06"	262.28'	54.33'	12127.19	8116.23
34	07° 31' 45"	202.47'	26.61'	11877.11	8507.96
35	03° 15' 13"	202.47'	11.52'	11877.11	8507.96
36	20° 59' 19"	206.00'	75.46'	12176.35	8229.91
37	22° 41' 03"	192.00'	76.02'	12001.17	8587.28
38	48° 57' 26"	112.50'	96.13'	12242.64	8405.01
39	00° 04' 28"	28393.64'	36.87'		
40	90° 00' 00"	10.00'	15.71'	11985.82	8662.99
41					
42	176° 49' 57"	24.00'	74.07'	12062.44	8498.89
43	30° 42' 30"	80.87'	43.34'	12098.84	8455.18
44	116° 46' 49"	14.87'	30.30'	12036.97	8478.16
45	30° 42' 30"	80.87'	43.34'	12027.04	8543.42
46	108° 22' 41"	37.17'	70.30'	11868.10	8495.45
47	49° 24' 35"	175.00'	150.91'	11796.78	8613.39
48	152° 48' 10"	60.00'	160.01'	11910.22	8594.55
49	49° 24' 35"	175.00'	150.91'	12002.52	8525.94
50	87° 47' 13"	11.00'	16.85'	11846.04	8514.62
51	115° 44' 00"	13.01'	26.27'	11869.97	8514.14
52	86° 19' 29"	95.39'	143.72'	11842.01	8591.27
53	58° 07' 14"	14.18'	14.38'	11945.84	8623.13
54	24° 28' 28"	172.81'	73.82'	11613.40	8548.41

NORTH

0 15 30 45 60
GRAPHIC SCALE IN FEET
SCALE: 1"=30'

LAYOUT & DIMENSIONAL CONTROL NOTES

1. GENERAL CONSTRUCTION NOTES: REFER TO SHEET C100 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THE PROJECT.

2. SURVEYING: ALL SURVEYING REQUIRED FOR CONSTRUCTION STAKING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE DEVELOPER SHALL PROVIDE THE PROPERTY CORNERS AND TWO BENCHMARKS FOR USE AS HORIZONTAL AND VERTICAL DATUM. THE CONTRACTOR SHALL EMPLOY A REGISTERED PROFESSIONAL LAND SURVEYOR TO PERFORM ALL ADDITIONAL SURVEY, LAYOUT AND MEASUREMENT WORK NECESSARY FOR THE COMPLETION OF THE PROJECT.

3. PROTECTION OF PROPERTY CORNERS AND BENCHMARKS: THE CONTRACTOR SHALL PROTECT ALL PROPERTY CORNER MARKERS AND BENCHMARKS, AND WHEN ANY SUCH MARKERS OR MONUMENTS ARE IN DANGER OF BEING DISTURBED, THEY SHALL BE PROPERLY REFERENCED AND IF DISTURBED, SHALL BE RESET BY A REGISTERED PUBLIC SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.

4. DIMENSIONAL CONTROL: ALL PAVING DIMENSIONS AND COORDINATES SHOWN ARE TO EDGE OF PAVEMENT WHERE APPLICABLE. ALL WALL DIMENSIONS AND CONTROLS SHOWN ARE AT FACE OF WALL.

5. CURB RADII: ALL CURB RADII SHALL BE 3' UNLESS OTHERWISE NOTED.

6. BUILDING DIMENSIONS: CONTRACTOR SHALL REFER TO BUILDING PLANS FOR ACTUAL BUILDING DIMENSIONS. THE DIMENSIONS AND CORNERS SHOWN ARE TO FACE OF OUTSIDE WALLS OF BUILDING.

WARNING

CONTRACTOR IS TO CONTACT TEXAS ONE-CALL SYSTEM (1-800-245-4545) OR OTHER UTILITY LOCATING SERVICES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES. ICON CONSULTING ENGINEERS, INC. IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES IN THE PROJECT AREA NOR FOR DEPICTING THE EXACT LOCATIONS OF UTILITIES ON THESE DRAWINGS.

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
11/3/09

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

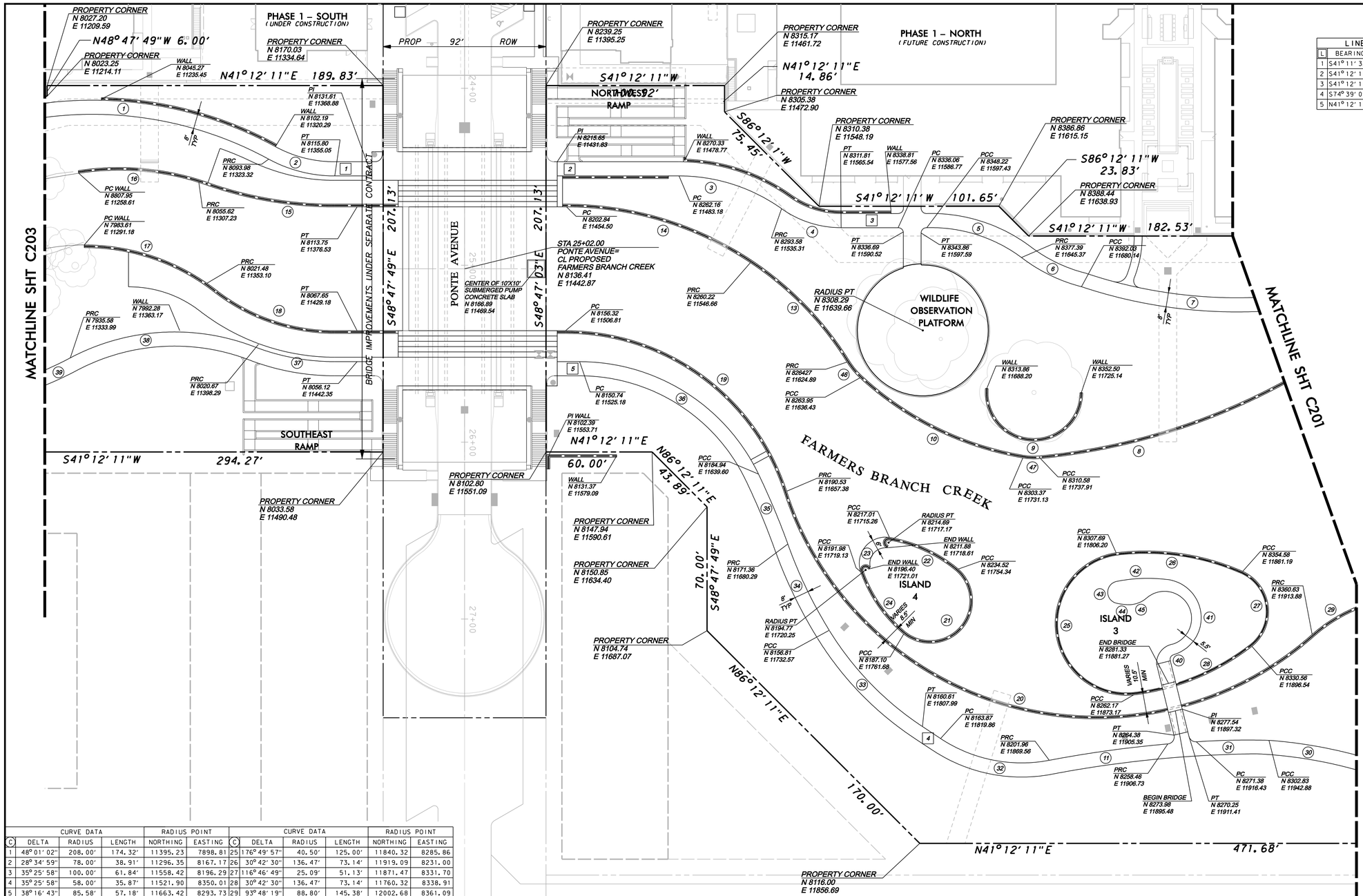
LAYOUT & DIMENSIONAL CONTROL PLAN NORTH

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C201

BID

PARK AND STREETSCAPE IMPROVEMENTS – VITRUVIAN PARK



LINE DATA		
L	BEARING	LENGTH
1	S41° 11' 32"W	21.00'
2	S41° 12' 11"W	68.82'
3	S41° 12' 11"W	32.23'
4	S74° 39' 09"W	12.31'
5	N41° 12' 11"E	12.65'

NORTH

0 15 30 45 60

GRAPHIC SCALE IN FEET
SCALE: 1"=30'

CURVE DATA				RADIUS POINT	
C	DELTA	RADIUS	LENGTH	NORTHING	EASTING
1	48° 01' 02"	208.00'	174.32'	11395.23	7898.81
2	28° 34' 59"	78.00'	38.91'	11296.35	8167.17
3	35° 25' 58"	100.00'	61.84'	11558.42	8196.29
4	35° 25' 58"	58.00'	35.87'	11521.90	8350.01
5	38° 16' 43"	85.58'	57.18'	11663.42	8293.73
6	22° 58' 28"	94.71'	37.98'	11626.73	8470.24
7	27° 00' 11"	278.24'	131.13'	11539.42	8632.06
8	34° 37' 50"	362.81'	219.29'	11443.16	8522.12
9	184° 35' 02"	27.50'	88.59'	11707.44	8332.44
10	33° 07' 41"	179.90'	104.02'	11617.51	8442.85
11	05° 50' 52"	432.22'	67.66'	12441.24	7866.34
12					
13	24° 21' 40"	185.61'	78.92'	11595.15	8081.05
14	33° 31' 53"	188.18'	110.13'	11595.82	8078.57
15	17° 20' 29"	300.00'	90.80'	11151.28	8311.90
16	26° 14' 13"	150.00'	68.69'	11385.20	7927.48
17	34° 54' 21"	121.00'	73.72'	11382.37	7904.07
18	34° 30' 48"	150.00'	90.36'	11316.82	8167.03
19	71° 56' 18"	131.36'	165.05'	11605.65	8069.78
20	84° 35' 09"	184.04'	271.69'	11729.85	8359.70
21	176° 49' 57"	24.00'	74.07'	11757.36	8210.71
22	30° 42' 30"	80.87'	43.34'	11766.69	8154.60
23	116° 46' 49"	14.87'	30.30'	11724.90	8205.69
24	30° 42' 30"	80.87'	43.34'	11749.29	8267.02

CURVE DATA				RADIUS POINT	
C	DELTA	RADIUS	LENGTH	NORTHING	EASTING
25	176° 49' 57"	40.50'	125.00'	11840.32	8285.86
26	30° 42' 30"	136.47'	73.14'	11919.09	8231.00
27	116° 46' 49"	25.09'	51.13'	11871.47	8331.70
28	30° 42' 30"	136.47'	73.14'	11760.32	8338.91
29	93° 48' 19"	88.80'	145.38'	12002.68	8361.09
30	11° 52' 06"	262.28'	54.33'	12127.19	8116.23
31	05° 27' 02"	432.22'	41.12'	12260.04	8009.19
32	44° 14' 09"	83.16'	64.20'	11797.85	8244.06
33	24° 54' 56"	175.05'	76.12'	11761.66	8329.42
34	12° 01' 58"	257.91'	54.16'	11775.21	8411.17
35	05° 52' 49"	418.16'	42.92'	11527.76	7782.01
36	64° 18' 35"	112.19'	125.92'	11609.59	8076.83
37	19° 26' 09"	167.50'	56.82'	11316.82	8167.03
38	47° 38' 30"	132.05'	109.80'	11462.52	7905.30
39	21° 54' 58"	192.88'	73.78'	11146.24	7979.80
40	91° 18' 56"	2.70'	4.30'	11873.36	8293.00
41	158° 47' 36"	21.77'	60.35'	11851.16	8303.29
42	18° 02' 25"	90.00'	28.29'	11896.57	8252.36
43	153° 53' 50"	6.30'	16.92'	11824.02	8294.11
44	10° 12' 30"	36.00'	6.41'	11806.55	8318.12
45	43° 44' 58"	15.30'	11.68'	11821.50	8303.81
46	15° 15' 22"	43.50'	11.58'	11631.85	8307.21
47	15° 10' 04"	37.50'	9.93'	11707.44	8332.44

LAYOUT & DIMENSIONAL CONTROL NOTES

1. GENERAL CONSTRUCTION NOTES: REFER TO SHEET C100 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THE PROJECT.

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WARNING

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BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED PROFESSIONAL ENGINEER
11/3/09

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

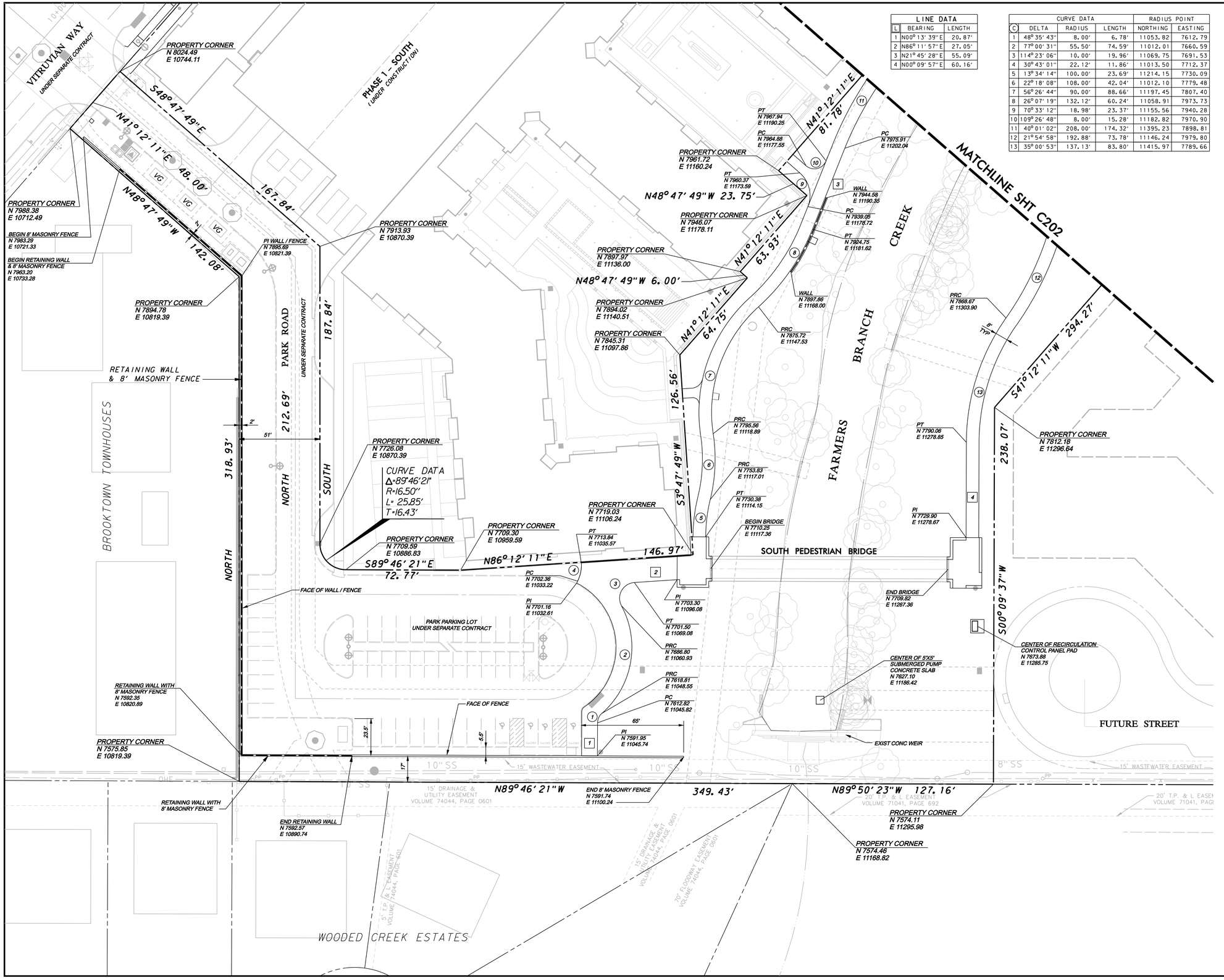
LAYOUT & DIMENSIONAL CONTROL PLAN CENTER

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C202

BID

PARK AND STREETSCAPE IMPROVEMENTS – VITRUVIAN PARK



LINE DATA		
L	BEARING	LENGTH
1	N00° 13' 39"E	20. 87'
2	N86° 11' 57"E	27. 05'
3	N21° 45' 28"E	55. 09'
4	N00° 09' 57"E	60. 16'

CURVE DATA				RADIUS POINT	
C	DELTA	RADIUS	LENGTH	NORTHING	EASTING
1	48° 35' 43"	8. 00'	6. 78'	11053. 82	7612. 79
2	77° 00' 31"	55. 50'	74. 59'	11012. 01	7660. 59
3	114° 23' 06"	10. 00'	19. 96'	11069. 75	7691. 53
4	30° 43' 01"	22. 12'	11. 86'	11013. 50	7712. 37
5	13° 34' 14"	100. 00'	23. 69'	11214. 15	7730. 09
6	22° 18' 08"	108. 00'	42. 04'	11012. 10	7779. 48
7	56° 26' 44"	90. 00'	88. 66'	11197. 45	7807. 40
8	26° 07' 19"	132. 12'	60. 24'	11058. 91	7973. 73
9	70° 33' 12"	18. 98'	23. 37'	11155. 56	7940. 28
10	109° 26' 48"	8. 00'	15. 28'	11182. 82	7970. 90
11	40° 01' 02"	208. 00'	174. 32'	11395. 23	7898. 81
12	21° 54' 58"	192. 88'	73. 78'	11146. 24	7979. 80
13	35° 00' 53"	137. 13'	83. 80'	11415. 97	7789. 66

LAYOUT & DIMENSIONAL CONTROL NOTES

1. GENERAL CONSTRUCTION NOTES: REFER TO SHEET C100 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THE PROJECT.

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WARNING

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BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
11/3/09

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

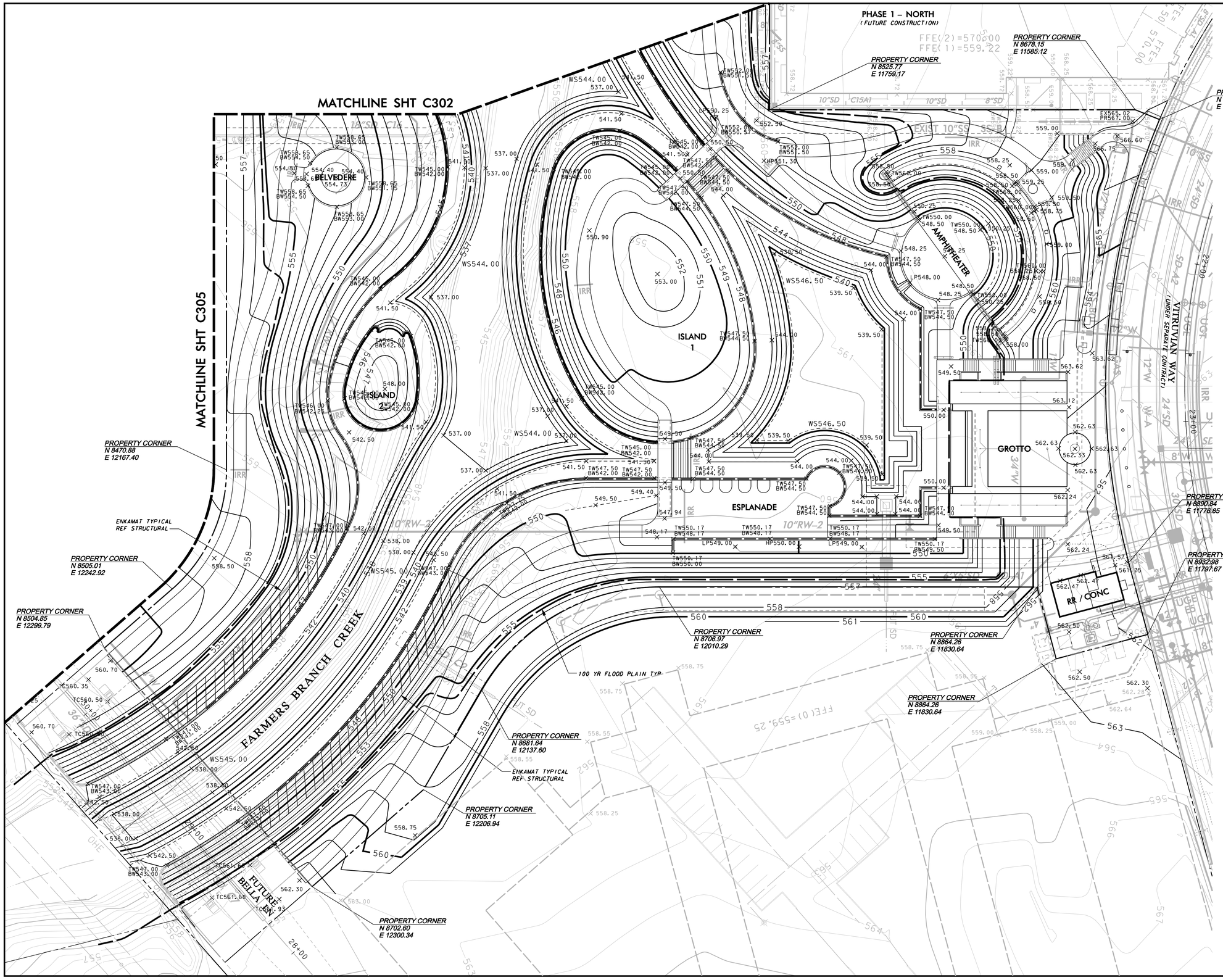
LAYOUT & DIMENSIONAL CONTROL PLAN SOUTH

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C203

BID

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



GRADING AND EXCAVATION NOTES:

1. REFER TO SHEET C304 "GENERAL GRADING AND EXCAVATION NOTES" FOR THIS PROJECT.
2. THE PROPOSED CONTOURS INDICATED ON THE GRADING PLAN ARE FINISHED GRADES AND ARE SHOWN AT ONE-FOOT INTERVALS. SPOT ELEVATIONS SHOWN IN PAVED AREAS ARE TOP OF PAVEMENT, UNLESS NOTED OTHERWISE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MASS GRADING OF THE SITE TO THE FOLLOWING ELEVATIONS:

   * 12" BELOW FINISHED GRADE FOR ALL AREAS WITHIN THE CONFINES OF THE LAKE AREA FOR PLACEMENT OF CLAY LINER MATERIAL
   * 6" BELOW FINISHED GRADE FOR ALL HEAVY DUTY SIDEWALK PAVEMENT AREAS.
   * 4" BELOW FINISHED GRADE FOR ALL STANDARD SIDEWALK PAVEMENT AREAS.
   * 4" BELOW FINISHED GRADE FOR ALL LANDSCAPE AREAS.

   A TOLERANCE OF +/- 0.10 FEET OF THE FINISHED GRADE WILL BE ALLOWED FOR ALL AREAS UNDER PROPOSED PAVEMENT. ALL LANDSCAPE AREAS ARE TO BE GRADED WITHIN +/- 0.30 FEET OF THE FINISHED GRADE.
4. ALL LANDSCAPE AREAS WITHIN THE LIMITS OF THE PARK PROPERTY NOT DESIGNATED TO BE PAVED OR THAT ARE LOCATED WITHIN THE LIMITS OF THE LAKE AND CREEK AREAS SHALL RECEIVE FOUR (4) INCHES OF TOPSOIL. REFER TO THE LANDSCAPE PLANS FOR LIMITS OF TOPSOIL PLACEMENT.

WARNING

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BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE.
1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
11/3/09

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

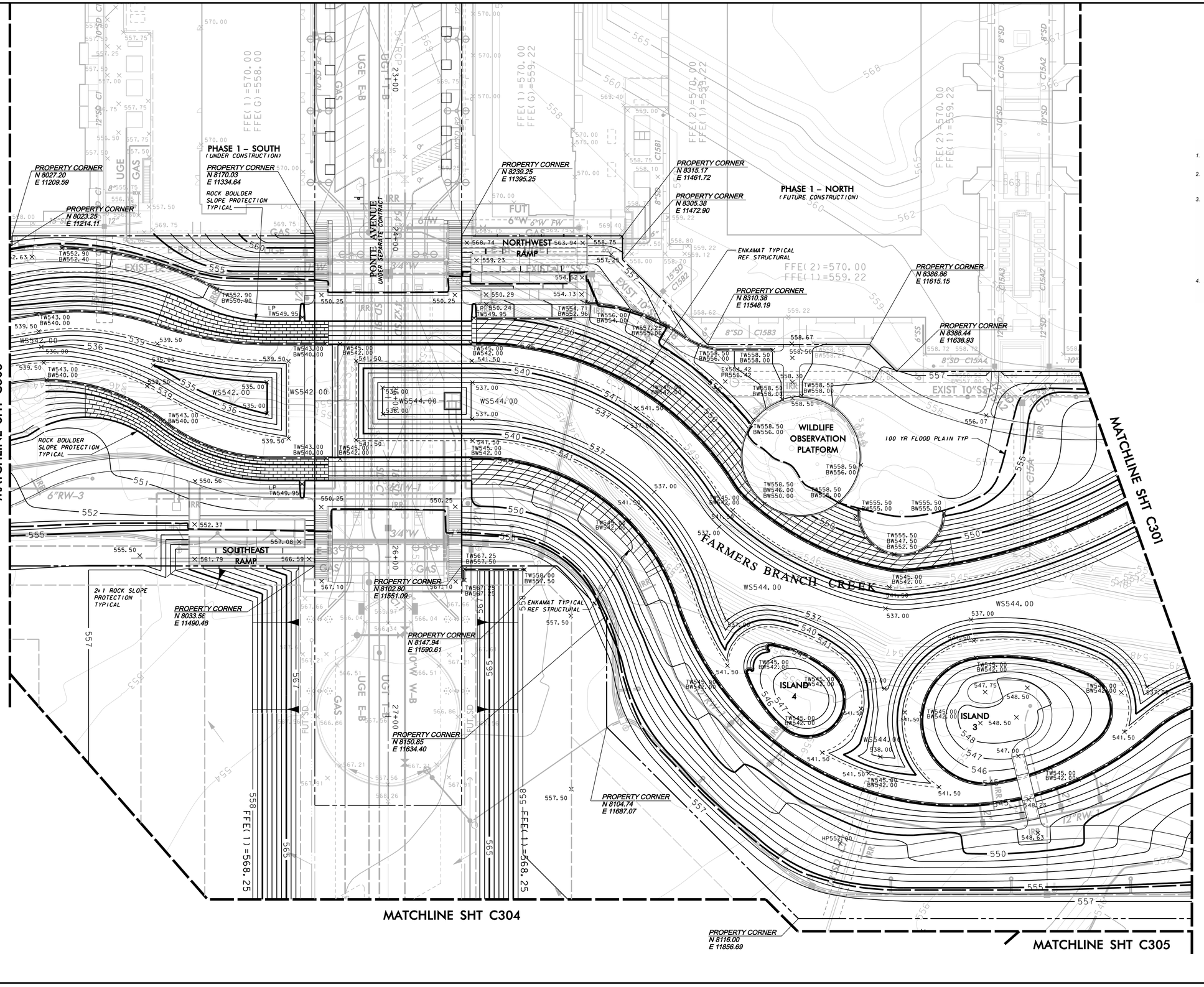
GRADING PLAN NORTH

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C301

BID

PARK AND STREETSCAPE IMPROVEMENTS – VITRUVIAN PARK



NORTH

0 15 30 45 60

GRAPHIC SCALE IN FEET
SCALE: 1"=30'

GRADING AND EXCAVATION NOTES:

1. REFER TO SHEET C304 "GENERAL GRADING AND EXCAVATION NOTES" FOR THIS PROJECT.
2. THE PROPOSED CONTOURS INDICATED ON THE GRADING PLAN ARE FINISHED GRADES AND ARE SHOWN AT ONE-FOOT INTERVALS. SPOT ELEVATIONS SHOWN IN PAVED AREAS ARE TOP OF PAVEMENT, UNLESS NOTED OTHERWISE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MASS GRADING OF THE SITE TO THE FOLLOWING ELEVATIONS:
   - 12" BELOW FINISHED GRADE FOR ALL AREAS WITHIN THE CONFINES OF THE LAKE AREA FOR PLACEMENT OF CLAY LINER MATERIAL
   - 6" BELOW FINISHED GRADE FOR ALL HEAVY DUTY SIDEWALK PAVEMENT AREAS.
   - 4" BELOW FINISHED GRADE FOR ALL STANDARD SIDEWALK PAVEMENT AREAS.
   - 4" BELOW FINISHED GRADE FOR ALL LANDSCAPE AREAS.

   A TOLERANCE OF +/- 0.10 FEET OF THE FINISHED GRADE WILL BE ALLOWED FOR ALL AREAS UNDER PROPOSED PAVEMENT. ALL LANDSCAPE AREAS ARE TO BE GRADED WITHIN +/- 0.30 FEET OF THE FINISHED GRADE.
4. ALL LANDSCAPE AREAS WITHIN THE LIMITS OF THE PARK PROPERTY NOT DESIGNATED TO BE PAVED OR THAT ARE LOCATED WITHIN THE LIMITS OF THE LAKE AND CREEK AREAS SHALL RECEIVE FOUR (4) INCHES OF TOPSOIL. REFER TO THE LANDSCAPE PLANS FOR LIMITS OF TOPSOIL PLACEMENT.

WARNING

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BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
11/3/09

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

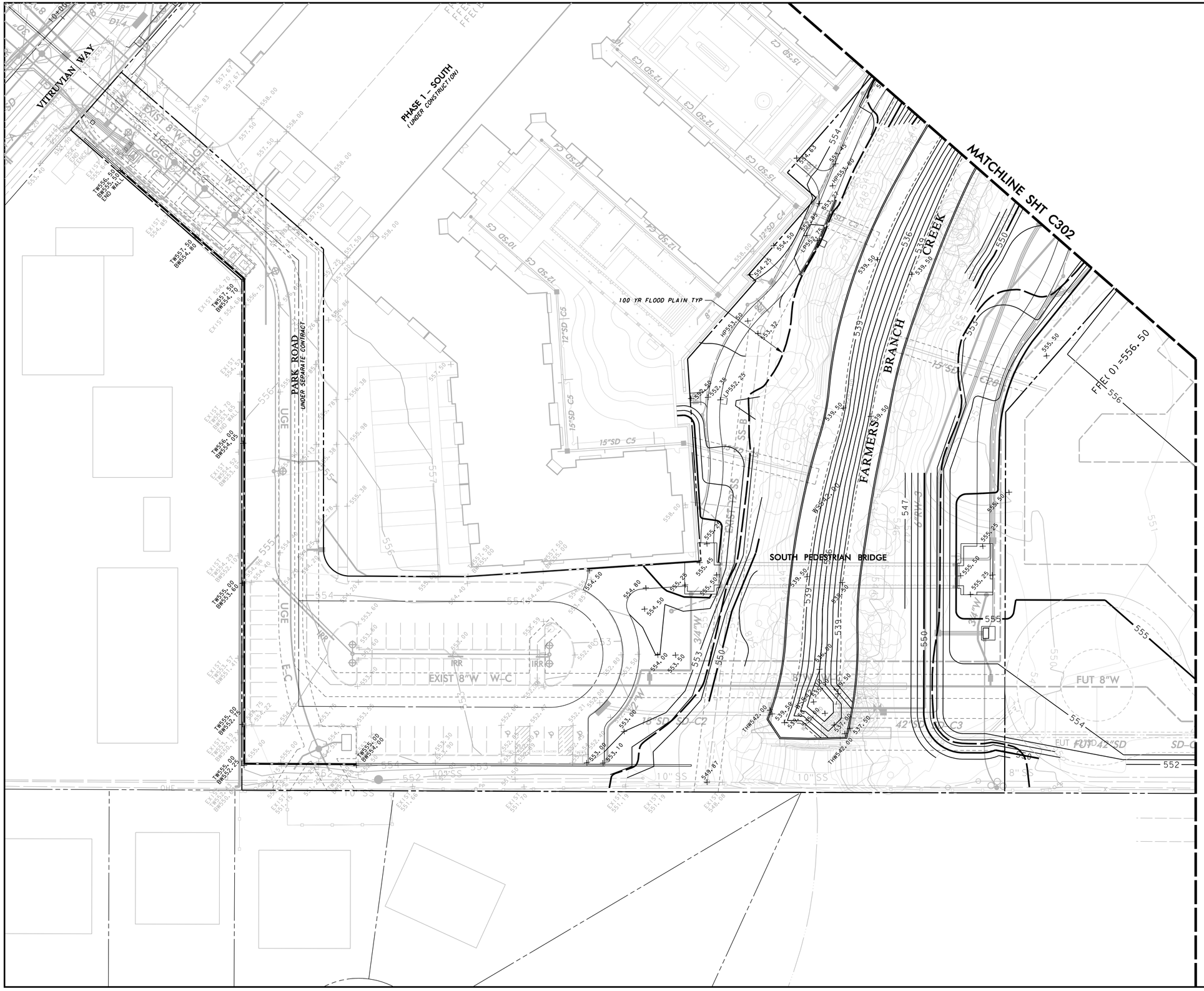
GRADING PLAN CENTER

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C302

BID

PARK AND STREETSCAPE IMPROVEMENTS – VITRUVIAN PARK



NORTH

0 15 30 45 60

GRAPHIC SCALE IN FEET
SCALE: 1"=30'

GRADING AND EXCAVATION NOTES:

1. *REFER TO SHEET C304 "GENERAL GRADING AND EXCAVATION NOTES" FOR THIS PROJECT.*
2. *THE PROPOSED CONTOURS INDICATED ON THE GRADING PLAN ARE FINISHED GRADES AND ARE SHOWN AT ONE-FOOT INTERVALS. SPOT ELEVATIONS SHOWN IN PAVED AREAS ARE TOP OF PAVEMENT, UNLESS NOTED OTHERWISE.*
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   - ** 4" BELOW FINISHED GRADE FOR ALL STANDARD SIDEWALK PAVEMENT AREAS.*
   - ** 4" BELOW FINISHED GRADE FOR ALL LANDSCAPE AREAS.*

   A TOLERANCE OF +/- 0.10 FEET OF THE FINISHED GRADE WILL BE ALLOWED FOR ALL AREAS UNDER PROPOSED PAVEMENT. ALL LANDSCAPE AREAS ARE TO BE GRADED WITHIN +/- 0.30 FEET OF THE FINISHED GRADE.
4. *ALL LANDSCAPE AREAS WITHIN THE LIMITS OF THE PARK PROPERTY NOT DESIGNATED TO BE PAVED OR THAT ARE LOCATED WITHIN THE LIMITS OF THE LAKE AND CREEK AREAS SHALL RECEIVE FOUR (4) INCHES OF TOPSOIL. REFER TO THE LANDSCAPE PLANS FOR LIMITS OF TOPSOIL PLACEMENT.*

WARNING

CONTRACTOR IS TO CONTACT TEXAS ONE-CALL SYSTEM (1-800-245-4545) OR OTHER UTILITY LOCATING SERVICES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES. ICON CONSULTING ENGINEERS, INC. IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES IN THE PROJECT AREA NOR FOR DEPICTING THE EXACT LOCATIONS OF UTILITIES ON THESE DRAWINGS.

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
11/3/09

NO.	REVISION	BY	DATE

Addison *TOWN OF ADDISON*
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

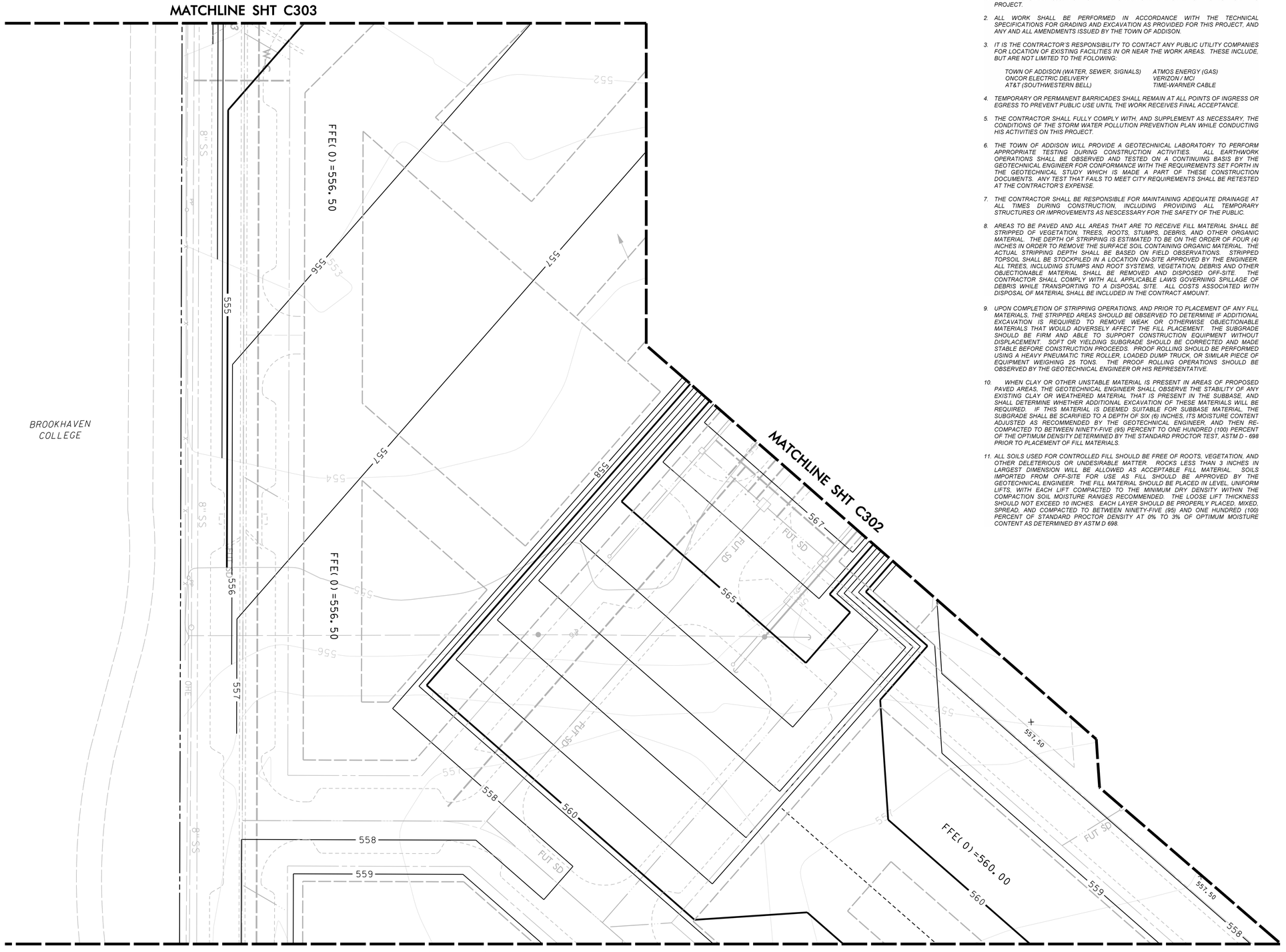
GRADING PLAN SOUTH

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C303

BID

PARK AND STREETSCAPE IMPROVEMENTS – VITRUVIAN PARK



GENERAL GRADING AND EXCAVATION NOTES:

1. REFER TO SHEET C304 FOR "GENERAL GRADING AND EXCAVATION NOTES" FOR THIS PROJECT.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS FOR GRADING AND EXCAVATION AS PROVIDED FOR THIS PROJECT, AND ANY AND ALL AMENDMENTS ISSUED BY THE TOWN OF ADDISON.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ANY PUBLIC UTILITY COMPANIES FOR LOCATION OF EXISTING FACILITIES IN OR NEAR THE WORK AREAS. THESE INCLUDE, BUT ARE NOT LIMITED TO THE FOLOWING:

TOWN OF ADDISON (WATER, SEWER, SIGNALS)	ATMOS ENERGY (GAS)
ONCOR ELECTRIC DELIVERY	VERIZON / MCI
AT&T (SOUTHWESTERN BELL)	TIME-WARNER CABLE

4. TEMPORARY OR PERMANENT BARRICADES SHALL REMAIN AT ALL POINTS OF INGRESS OR EGRESS TO PREVENT PUBLIC USE UNTIL THE WORK RECEIVES FINAL ACCEPTANCE.
5. THE CONTRACTOR SHALL FULLY COMPLY WITH, AND SUPPLEMENT AS NECESSARY, THE CONDITIONS OF THE STORM WATER POLLUTION PREVENTION PLAN WHILE CONDUCTING HIS ACTIVITIES ON THIS PROJECT.
6. THE TOWN OF ADDISON WILL PROVIDE A GEOTECHNICAL LABORATORY TO PERFORM APPROPRIATE TESTING DURING CONSTRUCTION ACTIVITIES. ALL EARTHWORK OPERATIONS SHALL BE OBSERVED AND TESTED ON A CONTINUING BASIS BY THE GEOTECHNICAL ENGINEER FOR CONFORMANCE WITH THE REQUIREMENTS SET FORTH IN THE GEOTECHNICAL STUDY WHICH IS MADE A PART OF THESE CONSTRUCTION DOCUMENTS. ANY TEST THAT FAILS TO MEET CITY REQUIREMENTS SHALL BE RETESTED AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE AT ALL TIMES DURING CONSTRUCTION INCLUDING PROVIDING ALL TEMPORARY STRUCTURES OR IMPROVEMENTS AS NESCESSARY FOR THE SAFETY OF THE PUBLIC.
8. AREAS TO BE PAVED AND ALL AREAS THAT ARE TO RECEIVE FILL MATERIAL SHALL BE STRIPPED OF VEGETATION, TREES, ROOTS, STUMPS, DEBRIS, AND OTHER ORGANIC MATERIAL. THE DEPTH OF STRIPPING IS ESTIMATED TO BE ON THE ORDER OF FOUR (4) INCHES IN ORDER TO REMOVE THE SURFACE SOIL CONTAINING ORGANIC MATERIAL. THE ACTUAL STRIPPING DEPTH SHALL BE BASED ON FIELD OBSERVATIONS. STRIPPED TOPSOIL SHALL BE STOCKPILED IN A LOCATION ON-SITE APPROVED BY THE ENGINEER. ALL TREES, INCLUDING STUMPS AND ROOT SYSTEMS, VEGETATION, DEBRIS AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OFF-SITE. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS GOVERNING SPILLAGE OF DEBRIS WHILE TRANSPORTING TO A DISPOSAL SITE. ALL COSTS ASSOCIATED WITH DISPOSAL OF MATERIAL SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
9. UPON COMPLETION OF STRIPPING OPERATIONS, AND PRIOR TO PLACEMENT OF ANY FILL MATERIALS, THE STRIPPED AREAS SHOULD BE OBSERVED TO DETERMINE IF ADDITIONAL EXCAVATION IS REQUIRED TO REMOVE WEAK OR OTHERWISE OBJECTIONABLE MATERIALS THAT WOULD ADVERSELY AFFECT THE FILL PLACEMENT. THE SUBGRADE SHOULD BE FIRM AND ABLE TO SUPPORT CONSTRUCTION EQUIPMENT WITHOUT DISPLACEMENT. SOFT OR YIELDING SUBGRADE SHOULD BE CORRECTED AND MADE STABLE BEFORE CONSTRUCTION PROCEEDS. PROOF ROLLING SHOULD BE PERFORMED USING A HEAVY PNEUMATIC TIRE ROLLER, LOADED DUMP TRUCK, OR SIMILAR PIECE OF EQUIPMENT WEIGHING 25 TONS. THE PROOF ROLLING OPERATIONS SHOULD BE OBSERVED BY THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE.
10. WHEN CLAY OR OTHER UNSTABLE MATERIAL IS PRESENT IN AREAS OF PROPOSED PAVED AREAS, THE GEOTECHNICAL ENGINEER SHALL OBSERVE THE STABILITY OF ANY EXISTING CLAY OR WEATHERED MATERIAL THAT IS PRESENT IN THE SUBBASE, AND SHALL DETERMINE WHETHER ADDITIONAL EXCAVATION OF THESE MATERIALS WILL BE REQUIRED. IF THIS MATERIAL IS DEEMED SUITABLE FOR SUBBASE MATERIAL, THE SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF SIX (6) INCHES, ITS MOISTURE CONTENT ADJUSTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER, AND THEN RE-COMPACTED TO BETWEEN NINETY-FIVE (95) PERCENT TO ONE HUNDRED (100) PERCENT OF THE OPTIMUM DENSITY DETERMINED BY THE STANDARD PROCTOR TEST, ASTM D - 698 PRIOR TO PLACEMENT OF FILL MATERIALS.
11. ALL SOILS USED FOR CONTROLLED FILL SHOULD BE FREE OF ROOTS, VEGETATION, AND OTHER DELETERIOUS OR UNDESIRABLE MATTER. ROCKS LESS THAN 3 INCHES IN LARGEST DIMENSION WILL BE ALLOWED AS ACCEPTABLE FILL MATERIAL. SOILS IMPORTED FROM OFF-SITE FOR USE AS FILL SHOULD BE APPROVED BY THE GEOTECHNICAL ENGINEER. THE FILL MATERIAL SHOULD BE PLACED IN LEVEL, UNIFORM LIFTS, WITH EACH LIFT COMPACTED TO THE MINIMUM DRY DENSITY WITHIN THE COMPACTION SOIL MOISTURE RANGES RECOMMENDED. THE LOOSE LIFT THICKNESS SHOULD NOT EXCEED 10 INCHES. EACH LAYER SHOULD BE PROPERLY PLACED, MIXED, SPREAD, AND COMPACTED TO BETWEEN NINETY-FIVE (95) AND ONE HUNDRED (100) PERCENT OF STANDARD PROCTOR DENSITY AT 0% TO 3% OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D 698.

NORTH

0 15 30 45 60
GRAPHIC SCALE IN FEET
SCALE: 1"=30'

GRADING AND EXCAVATION NOTES:

1. REFER TO SHEET C304 "GENERAL GRADING AND EXCAVATION NOTES" FOR THIS PROJECT.
2. THE PROPOSED CONTOURS INDICATED ON THE GRADING PLAN ARE FINISHED GRADES AND ARE SHOWN AT ONE-FOOT INTERVALS. SPOT ELEVATIONS SHOWN IN PAVED AREAS ARE TOP OF PAVEMENT, UNLESS NOTED OTHERWISE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MASS GRADING OF THE SITE TO THE FOLLOWING ELEVATIONS:

   " 12" BELOW FINISHED GRADE FOR ALL AREAS WITHIN THE CONFINES OF THE LAKE AREA FOR PLACEMENT OF CLAY LINER MATERIAL
   " 6" BELOW FINISHED GRADE FOR ALL HEAVY DUTY SIDEWALK PAVEMENT AREAS.
   " 4" BELOW FINISHED GRADE FOR ALL STANDARD SIDEWALK PAVEMENT AREAS.
   " 4" BELOW FINISHED GRADE FOR ALL LANDSCAPE AREAS.

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WARNING

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STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
11/3/09

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

GRADING PLAN SOUTHEAST

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C304

BID

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

MATCHLINE SHT C304

MATCHLINE SHT C302

MATCHLINE SHT C301

NORTH

0 15 30 45 60
GRAPHIC SCALE IN FEET
SCALE: 1"=30'

FFE(0)=560.00

FFE(0)=560.00

FFE(0)=560.00

FFE(0)=560.00

FFE(0)=560.00

FUT SD

FUT SD

FUT SD

FUT SD

OHE

OHE

PARISH EPISCOPAL SCHOOL

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STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED PROFESSIONAL ENGINEER
11/3/09

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

GRADING PLAN NORTHEAST

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C305

BID

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PHASE 1 – SOUTH
(UNDER CONSTRUCTION)

PONTE AVENUE

PHASE 1 – NORTH
(FUTURE CONSTRUCTION)
C15A

C15B

VITRUVIAN WAY

RR / CONC

GROTTO

AMPHITHEATER

NORTHWEST RAMP

C8

C3

C1

FUT SD

ESPLANADE

C10A

C9

C5

C10B

C7

WILDLIFE OBSERVATION PLATFORM

ISLAND 1

PEDESTRIAN BRIDGE

SOUTHEAST RAMP

C28

FARMERS BRANCH CREEK

ISLAND 4

ISLAND 3

ISLAND 2

BELVEDERE

VITRUVIAN PARK

C17

C16

C13

C12

C19

C21

C20

WARNING

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STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
11/3/09

DRAINAGE AREA CALCULATIONS - PROPOSED VITRUVIAN PARK

AREA NO.	AREA (acres)	RUNOFF COEFF.	CA	Tc (min)	I2 (in/hr)	Q2 (cfs)	I5 (in/hr)	Q5 (cfs)	I10 (in/hr)	Q10 (cfs)	I25 (in/hr)	Q25 (cfs)	I50 (in/hr)	Q50 (cfs)	I100 (in/hr)	Q100 (cfs)	COLLECTION POINT
C1	0.38	0.90	0.34	10.0	5.2	1.8	5.9	2.0	6.5	2.2	7.4	2.5	8.2	2.8	8.9	3.0	FUTURE ROOF DRAINS
C3	0.58	0.90	0.52	10.0	5.2	2.7	5.9	3.1	6.5	3.4	7.4	3.9	8.2	4.3	8.9	4.6	FUTURE ROOF DRAINS
C5	0.55	0.90	0.50	10.0	5.2	2.6	5.9	2.9	6.5	3.2	7.4	3.7	8.2	4.0	8.9	4.4	FUTURE ROOF DRAINS
C7	0.83	0.90	0.75	10.0	5.2	3.9	5.9	4.4	6.5	4.8	7.4	5.6	8.2	6.1	8.9	6.6	FUTURE CURB INLETS
C8	1.03	0.90	0.93	10.0	5.2	4.8	5.9	5.5	6.5	6.0	7.4	6.9	8.2	7.6	8.9	8.2	FUTURE ROOF DRAINS
C9	1.25	0.90	1.13	10.0	5.2	5.9	5.9	6.6	6.5	7.3	7.4	8.4	8.2	9.2	8.9	10.0	FUTURE ROOF DRAINS
C10A	0.34	0.90	0.31	10.0	5.2	1.6	5.9	1.8	6.5	2.0	7.4	2.3	8.2	2.5	8.9	2.7	FUTURE ROOF & AREA DRAINS
C10B	0.28	0.90	0.25	10.0	5.2	1.3	5.9	1.5	6.5	1.6	7.4	1.9	8.2	2.1	8.9	2.2	FUTURE ROOF & AREA DRAINS
C12	1.12	0.90	1.01	10.0	5.2	5.3	5.9	5.9	6.5	6.5	7.4	7.5	8.2	8.2	8.9	9.0	FUTURE ROOF DRAINS
C13	0.74	0.90	0.67	10.0	5.2	3.5	5.9	3.9	6.5	4.3	7.4	5.0	8.2	5.4	8.9	5.9	FUTURE CURB INLETS
C15A	1.32	0.90	1.19	10.0	5.2	6.2	5.9	7.0	6.5	7.7	7.4	8.8	8.2	9.7	8.9	10.5	FUTURE ROOF & AREA DRAINS
C15B	0.96	0.90	0.86	10.0	5.2	4.5	5.9	5.1	6.5	5.6	7.4	6.4	8.2	7.1	8.9	7.7	FUTURE ROOF & AREA DRAINS
C16	1.59	0.90	1.43	10.0	5.2	7.5	5.9	8.4	6.5	9.3	7.4	10.6	8.2	11.7	8.9	12.7	FUTURE ROOF & AREA DRAINS
C17	1.42	0.90	1.28	10.0	5.2	6.7	5.9	7.5	6.5	8.3	7.4	9.5	8.2	10.4	8.9	11.3	FUTURE ROOF & AREA DRAINS
C19	0.34	0.90	0.31	10.0	5.2	1.6	5.9	1.8	6.5	2.0	7.4	2.3	8.2	2.5	8.9	2.7	FUTURE CURB INLETS
C20	0.81	0.90	0.73	10.0	5.2	3.8	5.9	4.3	6.5	4.7	7.4	5.4	8.2	5.9	8.9	6.5	FUTURE CURB INLETS
C21	0.71	0.90	0.64	10.0	5.2	3.3	5.9	3.8	6.5	4.1	7.4	4.8	8.2	5.2	8.9	5.7	FUTURE ROOF & AREA DRAINS
C28	0.80	0.90	0.72	10.0	5.2	3.8	5.9	4.2	6.5	4.7	7.4	5.4	8.2	5.9	8.9	6.4	FUTURE ROOF & AREA DRAINS
	12.7					**59.8**		**67.3**		**74.2**		**85.1**		**93.3**		**101.6**	

LEGEND

DRAINAGE AREA DESIGNATION — B26
DRAINAGE AREA BOUNDARY
DRAINAGE AREA SUB DIVIDE
DIRECTION OF FLOW

NORTH

0 30 60 90 120
GRAPHIC SCALE IN FEET
SCALE: 1"=60'

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

DRAINAGE AREA MAP & CALCULATIONS

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW # 2009-04	C400

BID

PARK AND STREETSCAPE IMPROVEMENTS – VITRUVIAN PARK

VP102
PHASE 1 – NORTH
(FUTURE CONSTRUCTION)

PONTE AVENUE
UNDER SEPARATE CONTRACT

VITRUVIAN WAY
UNDER SEPARATE CONTRACT

NORTHWEST RAMP

GROTTO

AMPHITHEATER

ESPLANADE

WILDLIFE OBSERVATION PLATFORM

FARMERS BRANCH CREEK

ISLAND 1

ISLAND 2

ISLAND 3

ISLAND 4

BELVEDERE

FUTURE

CURVE DATA
Δ=32°21'48"
R=434.00'
L=245.71'

STA 2+45.71-SD-G
1-STD SD CLEANOUT
FL=558.86

CONNECT 4" TREE DRAIN LINE

CONNECT TO DRINKING FOUNTAIN REF LANDSCAPE PLANS

STA 0+97.50-SD-G1
FL 8"=557.18
FL 6"=557.35

CONNECT 4" TREE DRAIN LINE

STA 0+00.00-SD-G
CONNECT TO UNDER SEPARATE CONTRACT EXIST 6" X 5"
FL=554.38

STA 0+29.00-SD-G1
FL=556.50

6"SD-G @ 1.00%

8"SD-G @ 1.00% MIN

12"W

1"W

CONNECT TO EXIST 8"SS
1-4" SERVICE TAP

INTERACTIVE FOUNTAIN CONTROL VAULT
REF MECHANICAL PLANS
1½" DOMESTIC METER & METER BOX
1½" BACKFLOW PREVENTOR & BOX

INTERACTIVE FOUNTAIN TREATMENT VAULT
REF MECHANICAL PLANS

STA 1+16.47-SD-G1
1-STD SD CLEANOUT
FL=555.38

6"SD-G2 @ 1.00% MIN

8"SD-G1 1.00% MIN

6"SD-G1A @ 1.00% MIN

1½" DOMESTIC METER IN EXIST METER BOX
CONNECT TO EXIST 2"W
1½" BACKFLOW PREVENTOR & BOX
15 LF 2"W

2"W

CONNECT TO EXIST 8"W
1-2" SERVICE TAP
N 8954.06
E 11799.90

1-2" 45° BEND
N 8930.75, E 11787.65

1-2" 45° BEND
N 8909.90, E 11794.70

1-2" 90° BEND
N 8901.29, E 11812.13

END & PLUG 4"SS
FL=557.00
N 8884.43, E 11832.78

END & PLUG 8"SS
FL=552.65
N 8876.65, E 11855.21

1-4"SS SERVICE TAP

REMOVE PLUG & CONNECT TO EX 8"SS
FL=552.41
N 8866.59, E 11850.23

NON-FREEZE WALL HYDRANT WATTS HY-725 OR EQ

NON-FREEZE WALL HYDRANT WATTS HY-725 OR EQ

NON-FREEZE WALL HYDRANT WATTS HY-725 OR EQ

NON-FREEZE WALL HYDRANT WATTS HY-725 OR EQ

3/4"W

4'x2' RCB SD & HEADWALL UNDER SEPARATE CONTRACT

18" RCP SD & HEADWALL UNDER SEPARATE CONTRACT

GROTTO RECIRCULATION PUMP, IRRIGATION PUMP & CONCRETE PAD
PAD EL = 537.00
REF MECHANICAL PLANS

STA 0+08.48-1W-1
1-6" GATE VALVE & BOX

PI STA 0+18.00-1W-1
1-6" 90° BEND

STA 0+08.50-RW-1
1-12" GATE VALVE & BOX

PI STA 0+15.00-RW-1
1-12" 90° BEND

PI STA 0+93.75-RW-1
1-12" 22.5° BEND

PI STA 1+38.05-RW-1
1-12" 22.5° BEND

PI STA 1+82.36-RW-1
1-12" 22.5° BEND

33 LF 1½" WATER
1-1½" DOMESTIC METER & METER BOX
1-1½" BACKFLOW PREVENTOR & BOX

STA 25+92.50-W-B, 35.5' RT
REMOVE 1½" PLUG
CONNECT TO EXIST 1½"W
1-1½" 90° BEND

CONNECT TO DRINKING FOUNTAIN REF LANDSCAPE PLANS

PI STA 2+59.04-RW-1
1-12" 22.5° BEND

STA 0+61.96-SD-C15B
END & PLUG
N 8311.50
E 11504.63

STA 0+00.00-SD-C15B
CONST 15" HDWL
SEE DETAIL
N 8253.80
E 11527.22

STA 0+24.10-SD-C15A2
END & PLUG
N 8433.06
E 11681.84

STA 0+24.10-SD-C15A1
END & PLUG
N 8458.70
E 11703.94

STA 0+91.63-SD-C15A=
STA 0+00.00-SD-C15A1=
STA 0+00.00-SD-C15A2
CONST STD 2' SQ JB
N 8434.65
E 11705.54

STA 0+00.00-SD-C15A
CONST 15" HDWL
SEE DETAIL
N 8374.29
E 11774.48

STA 0+00.00-SD-C16
CONST 18" HDWL
SEE DETAIL
N 8400.30
E 11923.01

STA 0+11.00-SD-C16
1-18" 15° BEND
N 8395.44
E 11932.88

PI STA 6+43.04-RW-1
1-12" 45° BEND

PI STA 5+77.56-RW-1
1-12" 22.5° BEND
1-12" 11.25° BEND

PI STA 6+97.77-RW-1
1-12" 45° BEND

PI STA 7+65.39-RW-1
1-12" 22.5° BEND

110 LF 18" STEEL CASING BY OPEN CUT

PI STA 3+69.55-RW-1
1-12" 22.5° BEND
1-12" 11.25° BEND

PI STA 4+69.52-RW-1
1-12" 22.5° BEND

STA 0+52.18-SD-C16
CONNECT 6" SD

6"SD @ 1.00% MIN

STA 3+03.07-RW-1
1-2" SERVICE TAP
2" VALVE, BOX & WALL PENETRATION
REF MECHANICAL PLANS

STA 3+38.07-RW-1
1-2" SERVICE TAP
2" VALVE, BOX & WALL PENETRATION
REF MECHANICAL PLANS

STA 0+00.00-SD-C17
CONST 18" HDWL
SEE DETAIL
N 8202.95
E 11826.10

STA 0+94.55-SD-C17
END & PLUG
N 8122.37
E 11875.57

STA 5+61.52-RW-1
1-2" SERVICE TAP
2" VALVE, BOX & WALL PENETRATION
REF MECHANICAL PLANS

STA 4+86.52-RW-1
1-2" SERVICE TAP
2" VALVE, BOX & WALL PENETRATION
REF MECHANICAL PLANS

STA 5+36.52-RW-1
1-2" SERVICE TAP
2" VALVE, BOX & WALL PENETRATION
REF MECHANICAL PLANS

STA 5+28.52-RW-1
1-2" SERVICE TAP
2" VALVE, BOX & WALL PENETRATION
REF MECHANICAL PLANS

STA 1+47.76-SD-C16
END & PLUG
N 8305.35
E 12035.77

CONNECT AREA DRAINS
REF LANDSCAPE PLANS

STA 8+16.66-RW-1
1-2" SERVICE TAP
2" VALVE, BOX & WALL PENETRATION
REF MECHANICAL PLANS

PI STA 8+38.18-RW-1
1-12" 22.5° BEND

STA 8+63.18-RW-1
1-2" SERVICE TAP
2" VALVE, BOX & WALL PENETRATION
REF MECHANICAL PLANS

STA 9+27.13-RW-1=
STA 0+00.00-RW-2
1-12"X10" TEE
1-10" GATE VALVE & BOX
1-12"X4" REDUCER
1-4" GATE VALVE & BOX

PI STA 9+56.47-RW-1
1-4" 45° BEND

PI STA 10+67.81-RW-1
1-4" 90° BEND

END & PLUG 4"W
N 8504.86
E 12294.7

STA 0+70.92-SD-C13
END & PLUG
N 8499.25
E 12336.27

STA 0+00.00-SD-C7
CONST 30" HDWL
SEE DETAIL
N 8638.28
E 12336.66

STA 0+00.00-SD-C13
CONST 36" HDWL
SEE DETAIL
N 8570.16
E 12336.47

STA 0+62.47-SD-C7
END & PLUG
N 8700.75
E 12336.84

2-4" WALL PENETRATION
REF MECHANICAL PLANS

STA 0+00.00-SD-C9
CONST 15" HDWL
SEE DETAIL
N 8627.70
E 12153.33

STA 0+66.19-SD-C9
END & PLUG
N 8691.24
E 12134.80

STA 4+11.25-RW-2
2-10" X 45° BENDS
GROTTO WATERFALL
REF MECHANICAL PLANS
FOR CONTINUATION

STA 0+00.00-SD-A1.1
CONNECT TO EXIST 5'X5' RCB
TOP BOX=543.28
FL 12"= 543.28

15 LF 10" SD @ 15.3%

STA 0+16.82-SD-A1.1, 3' RT
CONST 13"X13" CATCH BASIN
TOP=549.00
FL= 547.50

85 LF 10" SD @ 2.00%

STA 0+96.85-SD-A1.1
CONST 13"X13" CATCH BASIN
TOP=549.00
FL= 547.50

STA 3+87.23-RW-2
1-10"X10" TEE
1-10" GATE VALVE & BOX

10" WALL PENETRATION
REF MECHANICAL PLANS

CONNECT (6) AREA DRAINS
REF LANDSCAPE PLANS

CONNECT (5) AREA DRAINS
REF LANDSCAPE PLANS

CONNECT (6) AREA DRAINS
REF LANDSCAPE PLANS

STA 1+16.47-SD-G1
1-STD SD CLEANOUT
FL=555.38

FFE(1)=559.25

FFE(0)=560.00

FFE(0)=560.00

FFE(0)=560.00

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

NORTH

0 20 40 60 80
GRAPHIC SCALE IN FEET
SCALE: 1"=40'

STORM SEWER, SANITARY SEWER, WATER AND MISC. UTILITY NOTES

1. REFER TO SHEET C604 FOR "GENERAL PAVING NOTES" FOR THIS PROJECT.

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STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED PROFESSIONAL ENGINEER
11/3/09

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

STORM DRAIN & UTILITY PLAN NORTH

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

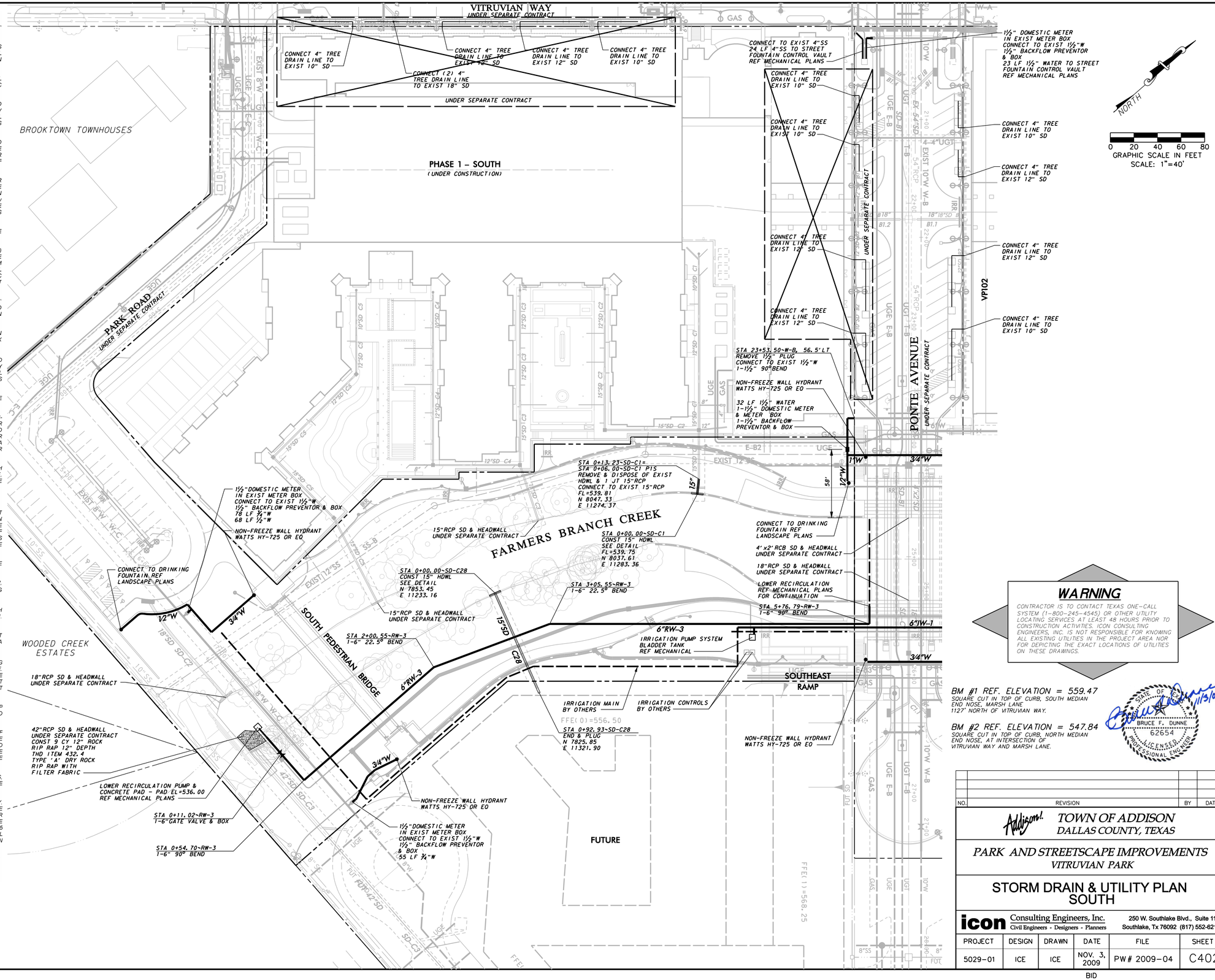
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C401

BID

PARK AND STREETSCAPE IMPROVEMENTS – VITRUVIAN PARK

GENERAL STORM DRAIN, SANITARY SEWER, WATER, AND MISC. UTILITY NOTES:

1. REFER TO SHEET C100 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THIS PROJECT.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG), AND ANY AND ALL AMENDMENTS BY THE TOWN OF ADDISON, AS WELL AS STANDARD CONSTRUCTION DETAILS SHOWN ON THE PLANS.
3. THE CONTRACTOR SHALL COVER ALL OPEN EXCAVATIONS WITH ANCHORED STEEL PLATING, DURING NON-WORKING HOURS, ALONG EXISTING ROADWAYS AND TRAFFIC AREAS.
4. THE CONTRACTOR SHALL VERIFY THE SIZE, TYPE, ELEVATION, CONFIGURATION, AND ANGULATION OF EXISTING STORM DRAIN, WATER, SEWER AND OTHER MISC. UTILITY LINES PRIOR TO CONSTRUCTION OF TIE-IN MATERIALS. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING FACILITIES DAMAGED BY HIS ACTIVITIES.
5. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS FOR THE SUPPORT AND PROTECTION OF ALL UTILITY POLES, FENCES, TREES, SHRUBS, GAS MAINS, TELEPHONE CABLES, ELECTRIC CABLES, DRAINAGE PIPES, UTILITY SERVICES, AND ALL OTHER UTILITIES AND STRUCTURES BOTH ABOVE AND BELOW THE GROUND, THE COST OF WHICH SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
6. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND TO ASSURE PROPER DEPTHS ARE ACHIEVED. IN THE EVENT OF A CONFLICT BETWEEN WATER AND/OR MISC. UTILITY LINES WITH STORM DRAIN AND/OR SANITARY SEWER PIPING, THE CONTRACTOR SHALL ADJUST THE WATER LINE / MISC. UTILITY LINES DOWNWARDS IN SUCH A MANNER SO THAT THE PIPE MANUFACTURER'S RECOMMENDATIONS ON THE PIPE DEFLECTION AND JOINT STRESS ARE NOT EXCEEDED.
7. ALL STORM DRAIN STRUCTURES INCLUDING INLETS, DRAINS AND CLEANOUTS MUST BE ADJUSTED TO FINAL FINISHED GRADE BY THE CONTRACTOR.
8. ALL PIPE FOR STORM DRAIN IMPROVEMENTS FIFTEEN (15") THROUGH THIRTY-SIX (36") SHALL BE REINFORCED CONCRETE PIPE (RCP), CLASS III. REINFORCED CONCRETE PIPE JOINTS SHALL BE SEALED WITH RAMNECK OR APPROVED EQUAL. ALL PIPE FOR STORM DRAINAGE IMPROVEMENTS TWO (2') THROUGH TWELVE (12') SHALL BE POLYVINYL CHLORIDE PIPE (PVC), SDR-35 UNLESS NOTED OTHERWISE. ALL PIPE ENTERING PUBLIC STORM DRAIN STRUCTURES SHALL BE GROUTED TO ASSURE WATERTIGHT CONNECTIONS.
9. EMBEDMENT FOR STORM DRAIN PIPING SHALL CONSIST OF GRADE 4 CRUSHED STONE (3' BELOW PIPE FOR 27" AND SMALLER PIPES, AND 4" BELOW PIPE FOR 30" PIPES AND LARGER) TO THE CRADLE OF THE PIPE, WITH SELECT NATIVE SOIL LESS THAN 3" IN DIAMETER OR GRANULAR MATERIAL TO 6" OVER THE TOP OF PIPE.
10. FINISH BACKFILL SHALL BE NATIVE SOIL FREE OF ALL ROCKS AND CLODS GREATER THAN THREE INCHES IN DIAMETER, COMPACTED TO 95% STANDARD PROCTOR DENSITY, IN SIX (6) INCH MAXIMUM LOOSE LIFTS, WITH ZERO TO PLUS THREE, OPTIMUM MOISTURE.
11. THE CONTRACTOR SHALL VERIFY THE SIZE, TYPE, ELEVATION, CONFIGURATION, AND ANGULATION OF EXISTING STORM DRAIN, WATER, SANITARY SEWER AND MISC. UTILITY LINES PRIOR TO CONSTRUCTION OF TIE-IN MATERIALS. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING FACILITIES DAMAGED BY HIS ACTIVITIES.
12. ALL WATER MAIN MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF ADDISON'S WATER SYSTEM REQUIREMENTS.
13. ALL WATER MAINS TWELVE-INCH (12") DIAMETER AND SMALLER SHALL BE ANSI/AWWA C-900 PVC PRESSURE PIPE WITH CAST IRON O.D. OR WHEN PIPE PENETRATES METER VAULT WALLS IT SHALL BE DUCTILE IRON. PIPE JOINTS SHALL BE RUBBER RING AND INTEGRAL THICKENED BELL, ASSEMBLED WITH A FACTORY SUPPLIED LUBRICANT. WATER MAINS SHALL HAVE A MINIMUM CLASS RATING OF 150-PSI FOR DOMESTIC USE AND A MINIMUM CLASS RATING OF 200-PSI FOR FIRE LINE APPLICATIONS. JOINT MATERIAL FOR PVC SHALL CONFORM TO ASTM F471.
14. EMBEDMENT FOR WATER, SEWER AND MISC. UTILITY PIPING SHALL COMPLY WITH NCTCOG CLASS "B+" EMBEDMENT OF CRUSHED STONE TO THE SPRING LINE OF THE PIPE, WITH SAND (12" MIN.) OVER THE PIPE. A LAYER OF GEO-TEXTILE FABRIC SHALL BE PLACED ON TOP OF THE STONE PRIOR TO THE PLACEMENT OF THE SAND.
15. THE MINIMUM COVER TO THE TOP OF ALL WATER LINES SHALL BE FOUR FEET (4').
16. THE CONTRACTOR SHALL SUPPLY AND INSTALL ANY ADDITIONAL BENDS WITH THRUST BLOCKING AND OTHER APPURTENANCES REQUIRED TO ASSURE PROPER INSTALLATION OF WATER MAINS AND LATERALS. THE CONTRACTOR MAY PULL PIPE AS NEEDED AT THE BENDS WHERE THE DEFLECTION ANGLE OF THE PIPE DOES NOT MATCH THE ANGLE OF THE BEND PROVIDED THE PIPE DEFLECTION IS WITHIN TOLERABLE MANUFACTURERS LIMITS. THE COST FOR ADDITIONAL BENDS AND BLOCKING SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
17. ALL VALVES, DUCTILE IRON AND CAST IRON PIPE, FITTINGS AND SPECIALS SHALL BE POLYETHYLENE WRAPPED (MINIMUM 8 MIL THICKNESS).
18. HORIZONTAL BLOCKING FOR WATER LINES HAS BEEN OMITTED FOR CLARITY, HOWEVER, BLOCKING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GOVERNING AUTHORITIES' STANDARD DETAILS.
19. ALL FITTINGS SHALL BE DUCTILE IRON, FULL BODIED, MECHANICAL JOINT TYPE WITH RESTRAINING GLANDS, AND HAVE A MINIMUM RATED WORKING PRESSURE OF 250 PSI. FITTINGS SHALL BE WRAPPED WITH 8-MIL POLY PRIOR TO BACKFILL.
20. ALL VALVES AND FITTINGS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED. THRUST BLOCKING SHALL BE MINIMUM 3000 PSI CONCRETE AND BE ABLE TO WITHSTAND A MINIMUM 200 PSI TEST PRESSURE.
21. THRUST BLOCKING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GOVERNING AUTHORITIES' STANDARD DETAILS. DO NOT COVER BELLS OR FLANGES WITH CONCRETE. THE CONTRACTOR SHALL REMOVE EXISTING THRUST BLOCKING OR RESTRAINTS WHERE NECESSARY TO ALLOW THE WORK TO PROCEED, AND SHALL REPLACE THE THRUST BLOCKS WHERE REQUIRED. THE COST TO REMOVE, REPLACE OR PROVIDE THRUST BLOCKING SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
22. NO PERSON SHALL OPEN, TURN OFF, INTERFERE WITH, ATTACH ANY HOSE TO, OR TAP ANY WATER MAIN BELONGING TO THE TOWN OF ADDISON UNLESS DULY AUTHORIZED TO DO SO BY THE TOWN OF ADDISON PUBLIC WORKS DEPARTMENT (972-450-2871).
23. ALL WASTEWATER MAIN PIPING SHALL MEET THE EXTRA STRENGTH REQUIREMENTS OF ASTM SPECIFICATION D3034 (SDR-35). PIPE SHALL HAVE THE BELL AND SPIGOT TYPE JOINTS, CONSISTING OF INTEGRAL WALL SECTION WITH FACTORY INSTALLED COMPRESSION RUBBER RING GASKET, SECURELY LOCKED IN BELL GROOVE TO PROVIDE POSITIVE SEAL UNDER ALL INSTALLATION CONDITIONS. PIPE SHALL BE LAID WITH THE BELL END ON THE UPSTREAM SIDE.
24. ALL EXISTING AND PROPOSED IMPROVEMENTS (VALVES, MANHOLES, FIRE HYDRANTS, WATER METERS, ETC.) SHALL BE ADJUSTED TO FINAL FINISHED GRADE BY THE CONTRACTOR.
25. WATER LINES SHALL BE TESTED BOTH BACTERIOLOGICALLY AND HYDROSTATICALLY. WATER MAINS SHALL BE HYROSTATICALLY TESTED AT 150 PSI FOR FOUR (4) HOURS. FIRE LINES SHALL BE HYDROSTATICALLY TESTED AT 200 PSI FOR (2) HOURS. ALL BLEEDER LINES SHALL BE REMOVED UPON COMPLETION OF TESTING BY REMOVING THE CORPORATION STOP AND INSTALLING A BRASS PLUG. HEAVILY CHLORINATED WATER (3.5 MG/L OR GREATER FREE CHLORINE) RESULTING FROM WATER LINE STERILIZATION SHALL BE DIRECTED TO THE SANITARY SEWER AFTER THE MANDATORY CHLORINE RETENTION TIME (USUALLY 24 HOURS) UNLESS OTHERWISE NOTED.
26. THE CONTRACTOR SHALL PROVIDE VERIFICATION OF COMPLETION AND COMPLIANCE OF ALL REQUIRED TESTS (PRESSURE, BACTERIOLOGICAL, BACKFLOW, VACUUM, MANDREL, VHS VIDEO OF SANITARY SEWER AND STORM DRAIN, ETC.) TO THE TOWN OF ADDISON.



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BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS — BRUCE F. DUNNE — 62654 — LICENSED PROFESSIONAL ENGINEER — 11/3/09

NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

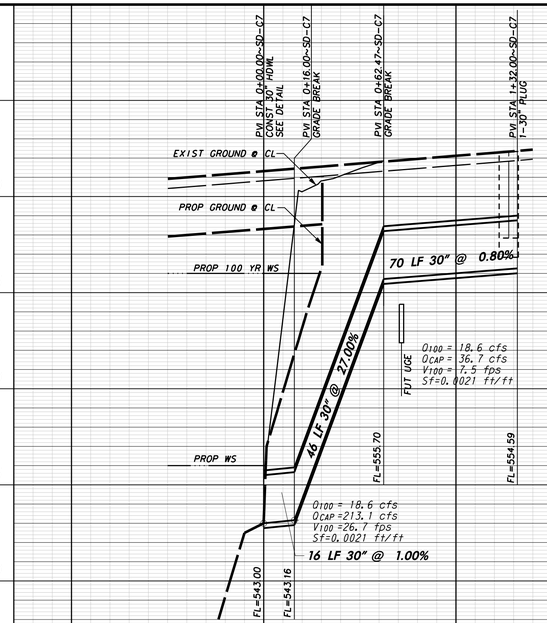
STORM DRAIN & UTILITY PLAN SOUTH

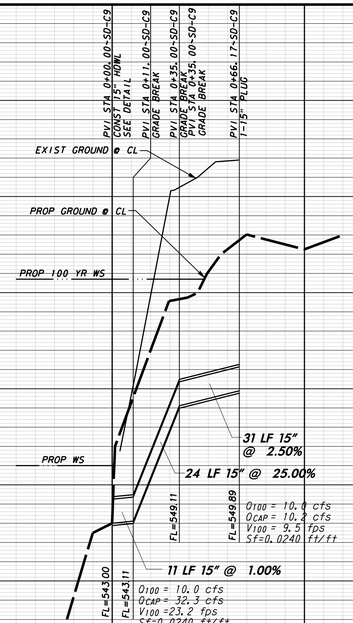
icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

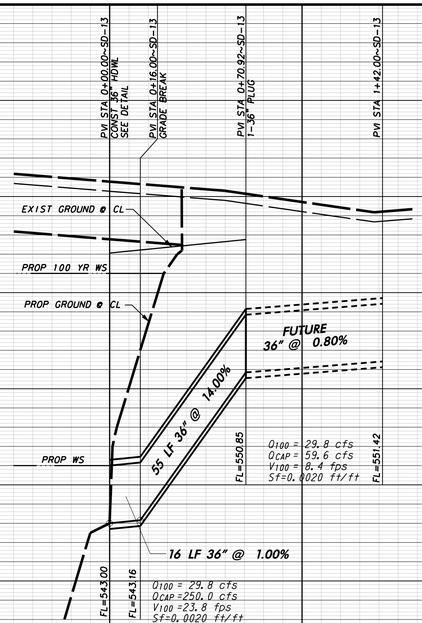
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C402

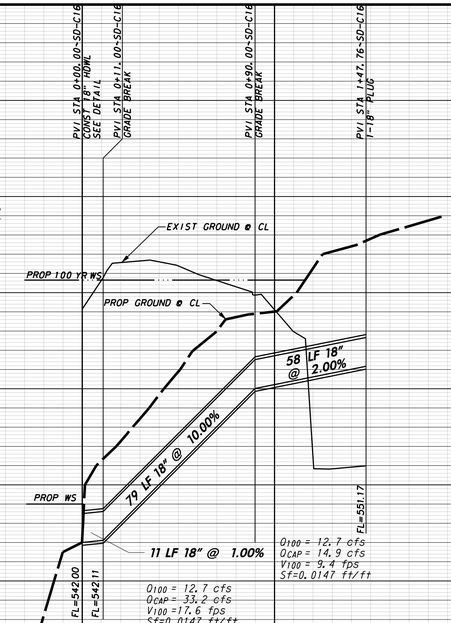
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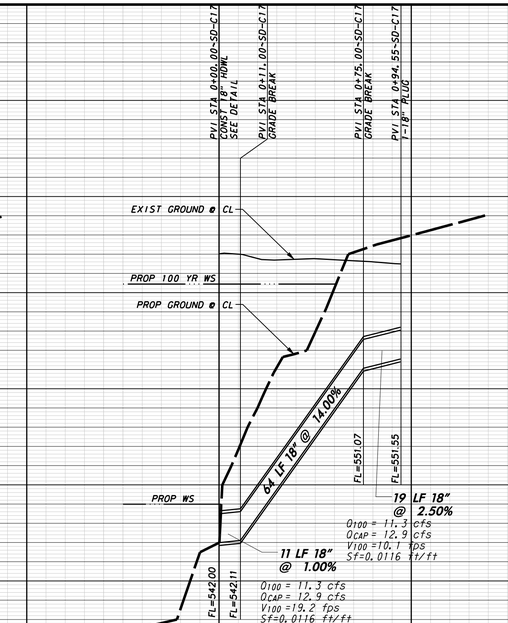
PARK AND STREETSCAPE IMPROVEMENTS – VITRUVIAN PARK

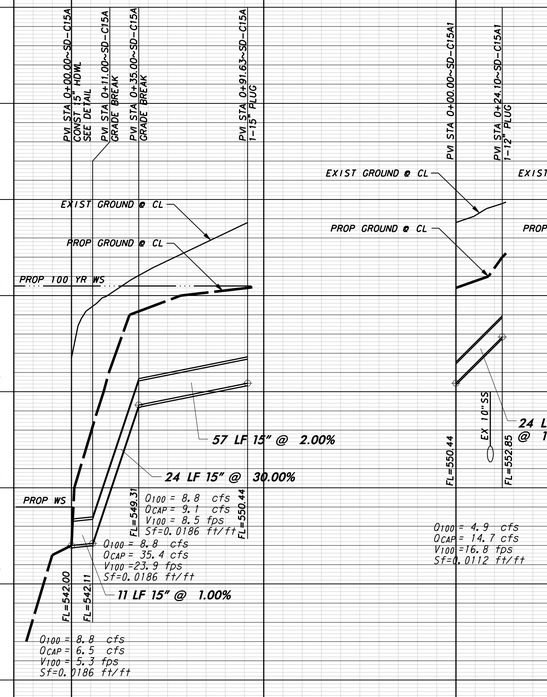


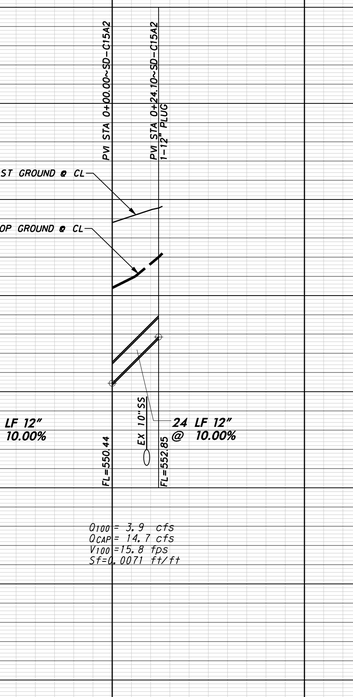


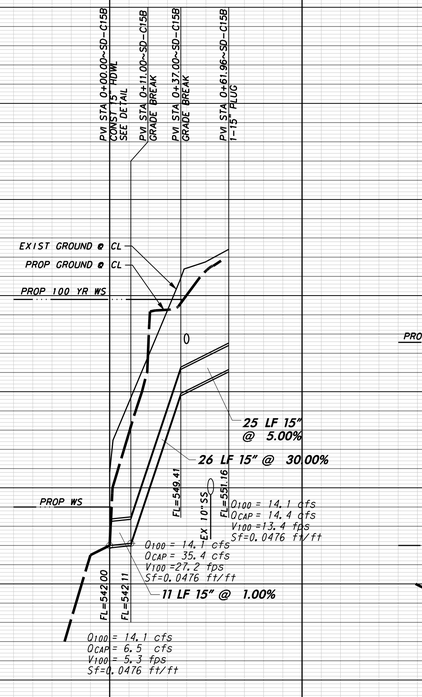


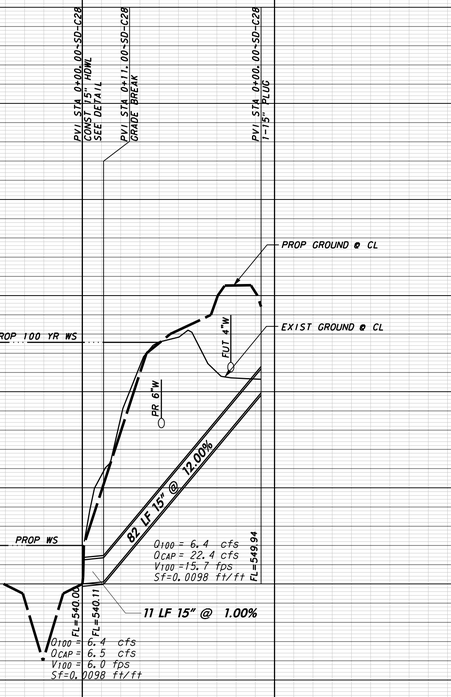












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PROFILE SCALE:

0 20 40 60 80
SCALE: 1"=40' HORIZ

0 2 4 6 8
SCALE: 1"=4' VERT

STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
11/3/09

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

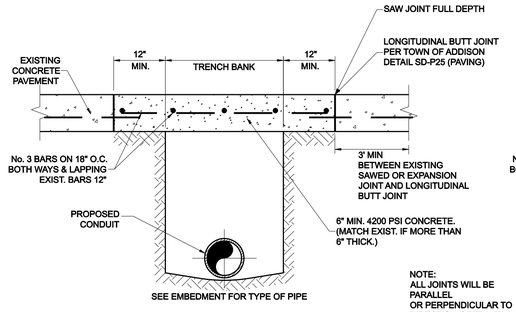
STORM DRAIN PROFILES

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C403

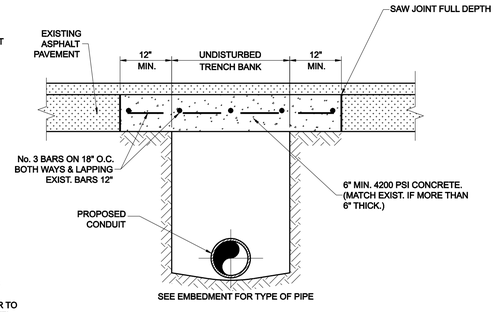
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PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

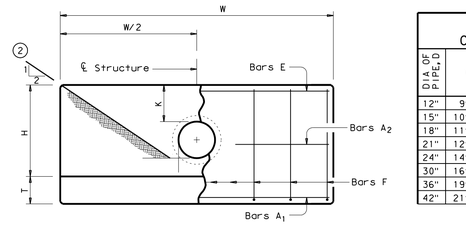


NOTE:
ALL JOINTS WILL BE PARALLEL OR PERPENDICULAR TO DIRECTION OF TRAVEL

CONCRETE STREET OR DRIVEWAY REPAIR
N.T.S.

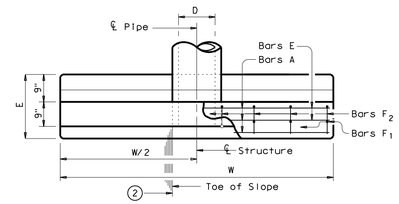


ASPHALT STREET OR DRIVEWAY REPAIR
N.T.S.



ELEVATION

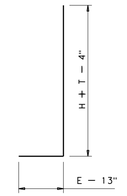
TABLE OF CONSTANT DIMENSIONS					
DIA OF PIPE, D	W	K	H	T	E
12"	9'-0"	1'-0"	2'-8"	9"	1'-9"
15"	10'-3"	1'-0"	2'-11"	9"	1'-9"
18"	11'-6"	1'-0"	3'-2"	9"	1'-9"
21"	12'-9"	1'-0"	3'-5"	9"	2'-0"
24"	14'-0"	1'-0"	3'-8"	9"	2'-0"
30"	16'-6"	1'-0"	4'-2"	9"	2'-3"
36"	19'-0"	1'-0"	4'-8"	1'-0"	2'-6"
42"	21'-6"	1'-0"	5'-2"	1'-0"	2'-9"



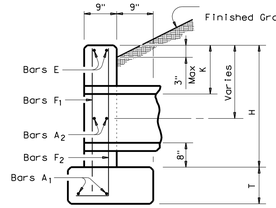
PLAN OF NON-SKEWED PIPE

TABLE OF REINFORCING STEEL ③			
Bar	Size	Spa	No.
A1	# 5	~	2
A2	# 5	1'-6"	~
E	# 5	~	2
F	# 5	1'-0"	~

③ Quantities shown are for one structure end. (One headwall)



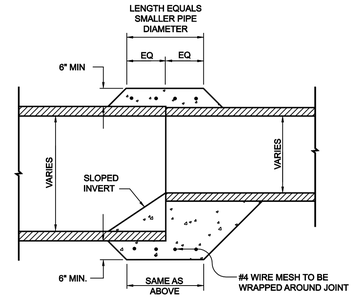
BARS F_2



℄ SECTION

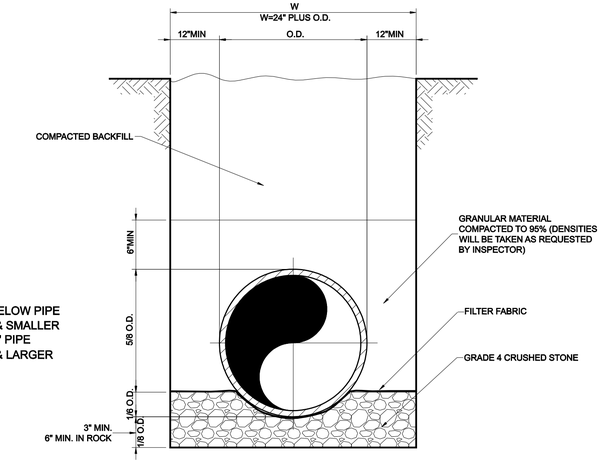
GENERAL NOTES:
Designed according to current AASHTO Standard and Interim Specifications.
Reinforcing steel shall be placed with the center of the outside layer of bars 2" from the surface of the concrete.
All concrete shall be Class "C" and shall have a minimum compressive strength of 3600 psi.
All reinforcing steel shall be Grade 60.
No bridge rails of any type may be mounted directly to these culvert headwalls.

CONCRETE HEADWALL WITH PARALLEL WINGS FOR NON-SKEWED PIPE CULVERT
NOT TO SCALE



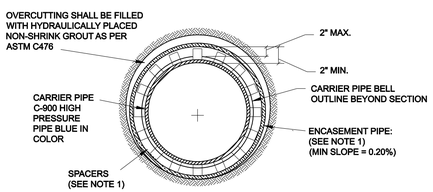
PIPE COLLAR DETAIL

NOTES
1. THIS PROCEDURE/DETAIL WILL ONLY BE USED WHEN 1 PREFAB REDUCTION IS NOT POSSIBLE.
2. CONCRETE FOR COLLAR WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO THE VARIOUS OTHER BIDS.
3. CONCRETE SHALL BE 5 SACK 3000 PSI.



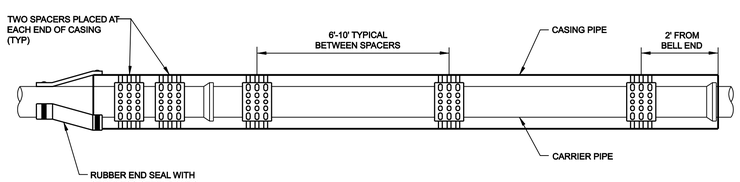
NOTE :
DEPTH OF TRENCH BELOW PIPE
3" MIN. FOR 27" PIPE & SMALLER
4" MIN. FOR 30" TO 60" PIPE
6" MIN. FOR 66" PIPE & LARGER

RCP STORM SEWER PIPE BEDDING



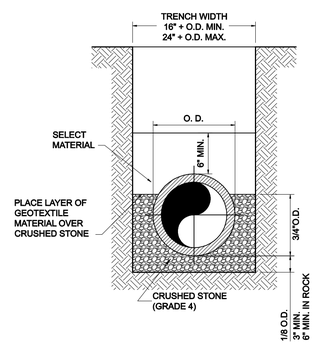
SECTION

NOTES:
(1) HIGH DENSITY POLYETHYLENE SPACERS, RACI OR EQUAL, SHALL BE USED. WHERE NO CASING PIPE IS REQUIRED OVERCUTTING AROUND UTILITY SHALL BE FILLED WITH HYDRAULICALLY PLACED NON-SHRINK GROUT AS PER ASTM C476.
(2) END GROUTING FOR ALL ENCASEMENTS SHALL BE AS PER ASTM STANDARD C476 (1:7 GROUT WITH 5% TO 40% AIR ENTRAINMENT). GROUT SHALL BE PLACED BY HYDRAULIC PUMP FROM THE LOWER END OF THE ENCASEMENT PIPE, THEREBY INSURING COMPLETE FILLING OF ENCASEMENT PIPE.
(3) ENCASEMENT PIPE SHALL BE EITHER DUCTILE IRON PIPE OR HIGH DENSITY STEEL PIPE. ALL JOINTS TO BE WELDED 100%.



INSULATOR SPACING DETAIL

WATER MAIN ENCASEMENT



CRUSHED STONE SHALL BE 3/4", PASSING # 4 SIEVE

CLASS "B+" EMBEDMENT
TYPICAL BACKFILL WATER MAIN
P.V.C. WATER PIPE



NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

STORM DRAIN & UTILITY DETAILS

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C404

BID

PARK AND STREETSCAPE IMPROVEMENTS – VITRUVIAN PARK

I.D. (IN.)	Δ= 30° G (FT.)	THRUST (TONS)	EARTH A (FT.)	EARTH B (FT.)	EARTH VOL. (C.Y.)	ROCK A (FT.)	ROCK B (FT.)	ROCK VOL. (C.Y.)
4,6,8	1.0	2.6	2.0	1.5	0.2	1.0	1.5	0.1
10,12	1.5	5.9	2.5	2.5	0.3	2.0	1.5	0.2
16,18	2.2	13.2	3.5	4.0	0.8	2.5	3.0	0.4
20	2.4	16.3	4.5	4.0	1.0	3.0	3.0	0.5
24	2.9	23.4	6.0	4.0	1.4	3.5	3.5	0.7
30	3.6	27.5	6.5	5.0	1.9	3.5	4.0	0.9
36	4.4	39.5	7.0	6.0	3.4	4.5	4.5	1.6
42	5.1	53.8	8.0	7.0	5.1	5.5	5.0	2.5
48	5.8	70.3	9.0	8.0	7.4	6.0	6.0	3.7
54	6.5	89.0	10.0	9.0	10.3	7.0	6.5	5.3
60	7.3	110.0	11.0	10.0	13.9	7.5	7.5	7.3
66	8.0	132.9	12.5	11.0	18.9	8.5	8.0	9.6
72	8.7	158.2	13.5	12.0	24.0	9.0	9.0	12.3
78	9.4	185.6	14.5	13.0	30.0	10.0	9.5	15.6
84	10.1	215.3	15.5	14.0	37.1	10.5	10.5	19.5
90	10.9	247.1	16.5	15.0	45.0	11.5	11.0	23.9
96	11.6	281.2	18.0	16.0	55.5	12.5	11.5	28.9

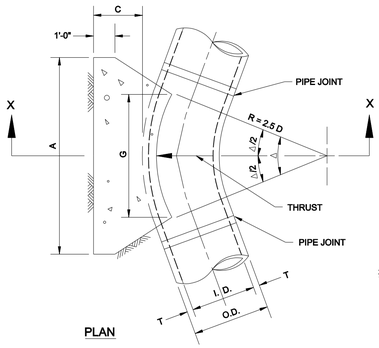
I.D. (IN.)	Δ= 45° G (FT.)	THRUST (TONS)	EARTH A (FT.)	EARTH B (FT.)	EARTH VOL. (C.Y.)	ROCK A (FT.)	ROCK B (FT.)	ROCK VOL. (C.Y.)
4,6,8	1.5	3.9	2.0	2.0	0.2	1.5	1.5	0.1
10,12	2.2	8.7	3.5	2.5	0.5	2.0	2.5	0.3
16,18	3.2	19.5	4.5	4.5	1.2	3.0	3.5	0.6
20	3.6	24.1	5.5	4.5	1.5	3.5	3.5	0.7
24	4.3	34.6	8.0	4.5	2.3	4.5	4.0	1.1
30	5.4	40.6	8.5	5.0	3.2	5.5	4.0	1.6
36	6.5	58.5	10.0	6.0	5.3	6.5	4.5	2.6
42	7.5	79.6	11.5	7.0	8.1	8.0	5.0	4.2
48	8.6	104.0	13.0	8.0	11.9	9.0	6.0	6.3
54	9.7	131.5	15.0	9.0	17.1	10.5	6.5	8.9
60	10.7	162.4	16.5	10.0	23.1	11.0	7.5	12.0
66	11.8	196.5	18.0	11.0	30.1	12.0	8.5	16.2
72	12.9	233.9	19.5	12.0	38.6	14.0	8.5	20.7
78	13.9	274.5	21.5	13.0	49.8	14.5	9.5	25.9
84	15.0	318.4	23.0	14.0	61.2	15.5	10.5	32.6
90	16.1	365.5	24.5	15.0	74.5	17.5	10.5	39.6
96	17.1	415.6	26.0	16.0	89.5	18.5	11.5	48.5

I.D. (IN.)	Δ= 67.50° G (FT.)	THRUST (TONS)	EARTH A (FT.)	EARTH B (FT.)	EARTH VOL. (C.Y.)	ROCK A (FT.)	ROCK B (FT.)	ROCK VOL. (C.Y.)
4,6,8	2.1	5.6	3.0	2.0	0.3	2.0	1.5	0.2
10,12	3.1	12.6	5.5	2.5	0.8	3.5	2.0	0.4
16,18	4.7	28.3	7.5	4.0	1.9	5.5	3.0	0.9
20	5.2	34.9	9.0	4.0	2.3	5.5	3.5	1.2
24	6.2	50.3	11.5	4.5	3.5	6.5	4.0	1.6
30	7.8	58.9	12.0	5.0	4.8	7.5	4.0	2.2
36	9.4	84.9	14.5	6.0	8.2	9.5	4.5	3.8
42	10.9	115.5	17.0	7.0	12.8	11.0	5.5	6.3
48	12.5	150.9	19.0	8.0	18.4	13.0	6.0	9.2
54	14.0	191.0	21.5	9.0	26.0	15.0	6.5	12.9
60	15.6	235.8	24.0	10.0	35.6	16.0	7.5	17.6
66	17.1	285.3	26.0	11.0	46.0	18.0	8.0	23.0
72	18.7	339.5	28.5	12.0	57.8	19.0	9.0	28.4
78	20.2	398.5	31.0	13.0	75.7	21.0	9.5	37.4
84	21.8	462.1	33.5	14.0	94.7	22.0	10.5	46.5
90	23.3	530.5	35.5	15.0	114.4	24.5	11.0	58.2
96	24.9	603.6	38.0	16.0	138.9	25.5	12.0	70.0

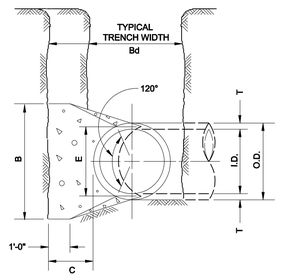
I.D. (IN.)	Δ= 90° G (FT.)	THRUST (TONS)	EARTH A (FT.)	EARTH B (FT.)	EARTH VOL. (C.Y.)	ROCK A (FT.)	ROCK B (FT.)	ROCK VOL. (C.Y.)
4,6,8	2.7	7.1	5.0	1.5	0.4	2.0	2.0	0.2
10,12	4.0	16.0	6.5	2.5	1.0	3.5	2.5	0.5
16,18	6.0	36.0	9.0	4.0	2.4	4.5	4.0	1.0
20	6.6	44.4	10.0	4.5	3.1	6.0	4.0	1.5
24	7.9	64.0	14.5	4.5	5.0	8.0	4.0	2.1
30	9.9	75.0	15.0	5.0	6.7	10.0	4.0	3.3
36	11.9	108.0	18.0	6.0	11.4	12.0	4.5	5.3
42	13.9	147.0	21.0	7.0	17.8	14.0	5.5	8.7
48	15.9	192.0	24.0	8.0	26.2	16.0	6.0	12.4
54	17.9	243.0	27.0	9.0	36.9	18.0	7.0	18.1
60	19.9	299.8	30.0	10.0	50.3	20.0	7.5	24.0
66	21.8	362.8	33.0	11.0	66.2	22.0	8.5	32.5
72	23.8	431.8	36.0	12.0	85.6	24.0	9.0	41.0
78	25.7	506.7	39.0	13.0	108.2	26.0	10.0	53.2
84	27.7	587.7	42.0	14.0	134.4	28.0	10.5	64.8
90	29.0	674.6	45.0	15.0	164.9	30.0	11.5	81.2
96	31.6	767.5	48.0	16.0	199.0	32.0	12.0	95.1

TABLES OF DIMENSIONS AND QUANTITIES

I.D. (IN.)	T (IN.)	Δ = 11.25° (FT.)	Δ = 22.50° (FT.)	E (FT.)
4,6,8	0.4	1.5	1.5	0.9
10,12	0.5	1.5	1.5	1.2
16,18	0.6	1.5	1.5	1.6
20	0.7	1.5	1.5	1.8
24	0.9	1.5	1.5	2.1
30	2.9	1.5	1.9	2.6
36	4.5	1.5	2.3	3.3
42	5.0	1.8	2.6	3.8
48	5.5	2.0	3.0	4.3
54	6.0	2.3	3.4	4.8
60	6.5	2.5	3.8	5.3
66	6.8	2.8	4.1	5.7
72	7.5	3.0	4.5	6.3
78	7.5	3.3	4.9	6.7
84	8.0	3.5	5.3	7.2
90	8.5	3.8	5.6	7.7
96	9.0	4.0	6.0	8.2



PLAN



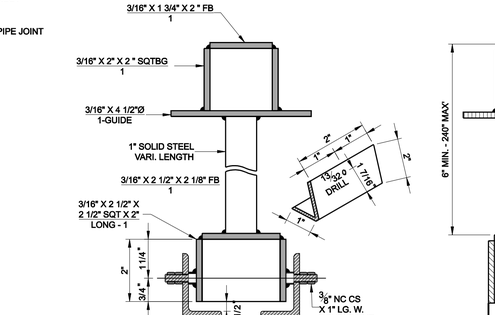
SECTION X-X

I.D. (IN.)	Δ= 11.25° G (FT.)	THRUST (TONS)	EARTH A (FT.)	EARTH B (FT.)	EARTH VOL. (C.Y.)	ROCK A (FT.)	ROCK B (FT.)	ROCK VOL. (C.Y.)
4,6,8	0.4	1.0	1.0	1.5	0.1	1.0	1.0	0.1
10,12	0.6	2.2	1.5	1.5	0.1	1.0	1.5	0.1
16,18	0.8	5.0	2.0	2.5	0.3	1.5	2.0	0.2
20	0.9	6.2	2.0	3.5	0.4	1.5	3.0	0.3
24	1.1	8.9	3.0	3.5	0.5	1.5	3.0	0.3
30	1.4	10.4	3.0	3.5	0.6	2.0	3.5	0.4
36	1.7	15.0	3.5	4.5	0.9	2.0	4.0	0.5
42	1.9	20.4	4.5	5.0	1.5	2.5	5.0	0.8
48	2.2	26.6	4.5	6.0	2.0	2.5	6.0	1.1
54	2.5	33.7	6.0	6.0	3.0	3.0	6.0	1.4
60	2.7	41.6	6.0	7.0	3.8	3.0	7.0	1.8
66	3.0	50.3	6.5	8.0	5.1	3.5	8.0	2.7
72	3.3	59.9	7.5	8.0	6.3	4.0	8.0	3.3
78	3.6	70.2	8.0	9.0	8.1	4.0	9.0	3.9
84	3.8	81.5	8.5	10.0	10.3	4.5	10.0	5.3
90	4.1	93.5	9.5	10.0	12.2	5.0	10.0	6.3
96	4.4	106.4	10.0	11.0	15.0	5.0	11.0	7.4

I.D. (IN.)	Δ= 22.50° G (FT.)	THRUST (TONS)	EARTH A (FT.)	EARTH B (FT.)	EARTH VOL. (C.Y.)	ROCK A (FT.)	ROCK B (FT.)	ROCK VOL. (C.Y.)
4,6,8	0.8	2.0	1.5	1.5	0.1	1.0	1.0	0.1
10,12	1.1	4.4	2.0	2.5	0.3	1.5	1.5	0.1
16,18	1.6	9.9	3.0	3.5	0.6	2.0	2.5	0.3
20	1.8	12.3	3.5	3.5	0.7	2.0	3.0	0.4
24	2.2	17.7	4.0	4.5	1.0	3.0	3.5	0.5
30	2.7	20.7	5.0	4.5	1.5	3.0	4.0	0.8
36	3.3	29.8	5.5	5.5	2.3	4.0	4.0	1.3
42	3.8	40.5	7.0	6.0	3.9	4.5	5.0	2.1
48	4.4	52.9	8.0	7.0	5.7	4.5	6.0	2.8
54	4.9	67.0	9.0	8.0	8.0	6.0	6.0	4.1
60	5.5	82.7	9.5	9.0	10.6	6.0	7.0	5.3
66	6.0	100.1	10.5	10.0	14.1	6.5	8.0	7.2
72	6.6	119.1	11.0	11.0	17.6	7.5	8.0	9.1
78	7.1	139.8	12.0	12.0	22.5	8.0	9.0	11.7
84	7.6	162.1	13.0	12.5	27.2	8.5	10.0	14.8
90	8.2	186.1	14.0	13.5	33.7	9.5	10.0	17.7
96	8.7	211.7	15.0	14.5	41.2	10.0	11.0	21.8

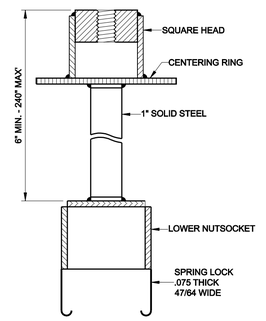
TABLES OF DIMENSIONS AND QUANTITIES

HORIZONTAL THRUST BLOCK

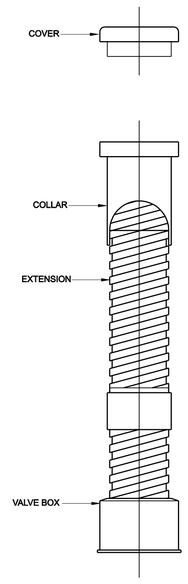


NOTE: TO BE USED ON ALL VALVES DEEPER THAN 5'-0".

TYPE - B
VALVE EXTENSION

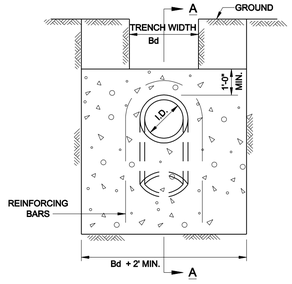


SPRING LOCK
VALVE EXTENSION

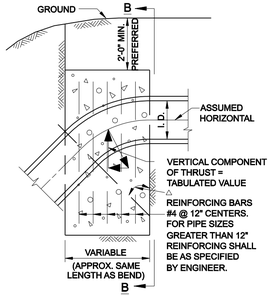


VALVE BOX WITH EXTENSION

ALL CAST IRON FITTINGS SHALL BE DOMESTIC.



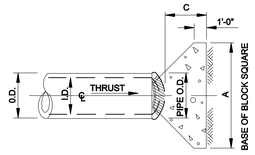
ELEVATION "B-B"



SECTION "A-A"

Δ →	11.25° THRUST (TONS)	11.25° VOL. (C.Y.)	22.50° THRUST (TONS)	22.50° VOL. (C.Y.)	30° THRUST (TONS)	30° VOL. (C.Y.)	45° THRUST (TONS)	45° VOL. (C.Y.)	67.50° THRUST (TONS)	67.50° VOL. (C.Y.)	90° THRUST (TONS)	90° VOL. (C.Y.)	← Δ I.D. (IN.)
4,6,8	1.0	0.5	2.0	1.0	2.5	1.3	3.6	1.8	4.6	2.3	5.0	2.5	4,6,8
10,12	2.2	1.1	4.3	2.2	5.7	2.8	8.0	4.0	10.5	5.2	11.3	5.7	10,12
16,18	5.0	2.5	9.7	4.9	12.7	6.4	18.0	9.0	23.5	11.8	25.5	12.7	16,18
20	6.1	3.1	12.0	6.0	15.7	7.9	22.2	11.1	29.2	14.5	31.4	15.7	20
24	8.2	4.4	17.3	8.7	22.6	11.3	32.0	16.0	41.8	20.9	45.2	22.6	24
30	10.5	5.2	20.3	10.1	26.5	13.3	37.5	18.8	49.0	24.5	53.1	26.5	30
36	14.9	7.5	29.2	14.6	38.2	19.1	54.0	27.0	70.5	35.3	76.4	38.2	36
42	20.3	10.1	39.8	19.9	52.0	26.0	73.5	36.7	96.0	48.0	104.0	52.0	42
48	26.5	13.2	51.9	26.0	67.9	33.9	96.0	48.0	126.0	62.7	136.0	67.9	48
54	33.5	16.8	65.7	32.9	85.9	42.9	122.0	60.7	159.0	79.4	172.0	85.9	54
60	41.4	20.7	81.2	40.6	106.0	53.0	150.0	75.0	196.0	98.0	212.0	106.0	60
66	50.1	25.0	98.2	49.1	128.0	64.2	182.0	90.7	237.0	119.0	257.0	128.0	66
72	59.6	29.8	117.0	58.4	153.0	76.3	216.0	108.0	282.0	141.0	305.0	153.0	72
78	69.9	35.0	137.0	68.6	179.0	90.0	254.0	127.0	331.0	166.0	358.0	179.0	78
84	81.1	40.5	159.0	79.5	208.0	104.0	294.0	147.0	384.0	192.0	416.0	208.0	84
90	93.1	46.5	183.0	91.3	239.0	119.0	337.0	169.0	441.0	221.0	477.0	239.0	90
96	106.0	53.0	208.0	104.0	272.0	136.0	384.0	192.0	502.0	251.0	543.0	272.0	96

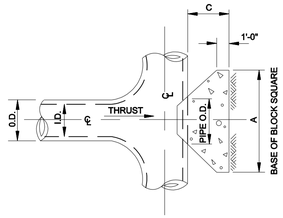
VERTICAL THRUST BLOCK



PLAN OF PLUG THRUST BLOCK

I.D. (IN.)	THRUST (TONS)	C (FT.)	EARTH A (FT.)	EARTH VOL. (C.Y.)	ROCK A (FT.)	ROCK VOL. (C.Y.)
4,6,8	5.1	1.5	2.5	0.3	2.0	0.2
10,12	11.3	1.5	3.5	0.6	2.5	0.3
16,18	25.5	2.0	5.5	1.6	4.0	0.9
20	31.5	2.0	6.0	1.9	4.0	0.9
24	45.2	2.5	7.0	3.1	5.0	1.7
30	53.0	3.0	7.5	4.1	5.5	2.4
36	76.3	4.0	9.0	7.3	6.5	4.2
42	104.0	4.5	10.5	11.0	7.5	6.2
48	136.0	5.0	12.0	15.6	8.5	8.7
54	172.0	5.5	13.5	21.4	9.5	11.9
60	212.0	6.0	15.0	28.4	10.5	15.7
66	257.0	6.5	16.5	36.8	11.5	20.5
72	305.0	7.5	17.5	47.2	12.5	27.2
78	358.0	8.0	19.0	58.9	13.5	33.7
84	416.0	8.5	20.5	72.3	14.5	41.2
90	477.0	9.0	22.0	87.7	15.5	49.7
96	543.0	9.5	23.5	104.8	16.5	61.0

TABLES OF DIMENSIONS AND QUANTITIES

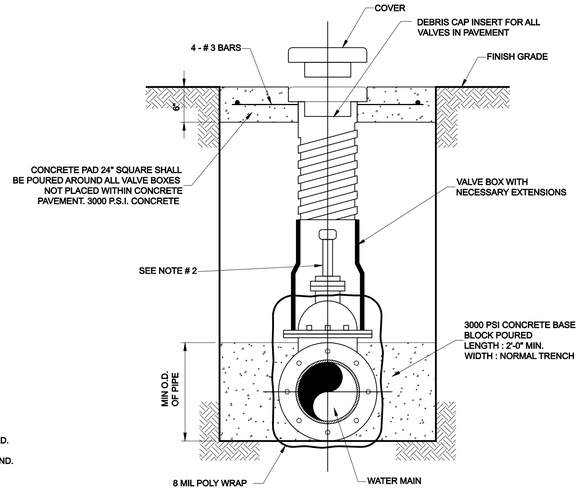


PLAN OF TEE THRUST BLOCK

GENERAL NOTES FOR ALL THRUST BLOCKS:

1. CONCRETE FOR BLOCKING SHALL BE CLASS "B".
2. ALL CALCULATIONS ARE BASED ON INTERNAL PRESSURE OF 200 PSI FOR DUCTILE IRON, P.V.C., AND 150 PSI FOR CONCRETE PIPE.
3. VOLUMES OF THRUST BLOCKS ARE NET VOLUMES OF CONCRETE TO BE FURNISHED. THE CORRESPONDING WEIGHT OF THE CONCRETE (CLASS "B") IS EQUAL TO OR GREATER THAN THE VERTICAL COMPONENT OF THE THRUST ON THE VERTICAL BEND.
4. WALL THICKNESS (T) ASSUMED HERE FOR ESTIMATING PURPOSES ONLY.
5. POUR CONCRETE FOR BLOCK AGAINST UNDISTURBED EARTH.
6. DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD CONDITIONS WHERE AND AS DIRECTED BY THE ENGINEER. THE VOLUME OF CONCRETE BLOCKING SHALL NOT BE LESS THAN SHOWN HERE. 2000 LBS./S.F. IN ROCK.
7. THE SOIL BEARING PRESSURES ARE BASED ON 1000 LBS./S.F. IN SOIL AND
8. ALL ANCHOR FITTINGS TO BE CONCRETE THRUST BLOCKED. ALL DUCTILE OR CAST IRON FITTINGS AND / OR PIPE TO BE POLY WRAPPED PRIOR TO POURING THE THRUST BLOCK.
9. CONCRETE SHALL NOT EXTEND BEYOND JOINTS.

HORIZONTAL THRUST BLOCK



TYPICAL VALVE SETTING & BOX

NOTE:
1. 4"-12" R.S. GATE VALVES SHALL BE IN ACCORDANCE WITH TOWN OF ADDISON WATER SYSTEM REQUIREMENTS AND AWWA STD C509. ALL VALVES SHALL BE MUELLER OR APPROVED EQUAL.
2. A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE THATS OPERATING NUT IS LOCATED IN EXCESS OF 5 FEET BELOW THE TOP OF VALVE BOX. THIS EXTENSION SHALL BE OF SUFFICIENT LENGTH TO INSURE THAT ITS TOP IS WITHIN 5 FEET OF VALVE BOX LID.
3. BLUE DOT (3") ON NEAREST CURB FACE TO VALVE.
4. ALL IRON MATERIALS SHALL BE DOMESTIC.

STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
11/3/09

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

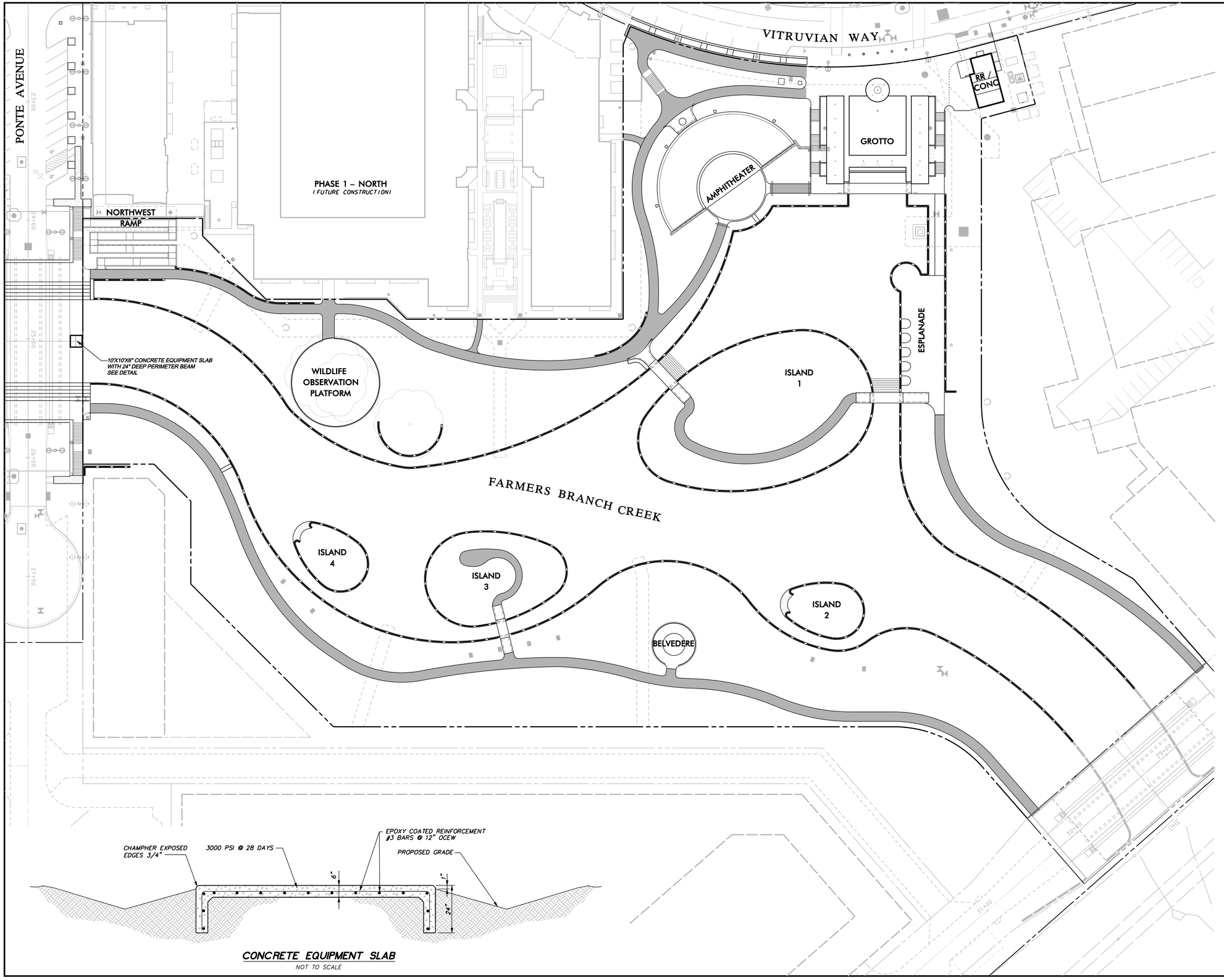
STORM DRAIN & UTILITY DETAILS

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C405

BID

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



NORTH

0 20 40 60 80
GRAPHIC SCALE IN FEET
SCALE: 1"=40'

LEGEND

STANDARD DUTY PAVEMENT:
6" (4200 PSI AT 28 DAYS) CONCRETE PVMT. W/ #3 BARS @ 18" O.C.E.W. ON 6" COMPACTED SUBGRADE TO 95% AT OR ABOVE OPTIMUM MOISTURE CONTENT (ASTM D 698). REFERENCE LANDSCAPE PLANS.

MISCELLANEOUS & FLATWORK:
4" REINFORCED CONCRETE FLATWORK (3000 PSI AT 28 DAYS) W/ #3 BARS @ 18" O.C.E.W. ON 6" COMPACTED SUBGRADE TO 95% AT OR ABOVE OPTIMUM MOISTURE CONTENT (ASTM D 698). REFERENCE LANDSCAPE PLANS.

RETAINING WALL:

PAVING NOTES

1. REFER TO SHEET C604 FOR "GENERAL PAVING NOTES" FOR THIS PROJECT.

CONCRETE EQUIPMENT SLAB
NOT TO SCALE

WARNING

CONTRACTOR IS TO CONTACT TEXAS ONE-CALL SYSTEM (1-800-245-4545) OR OTHER UTILITY LOCATING SERVICES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES. ICON CONSULTING ENGINEERS, INC. IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES IN THE PROJECT AREA NOR FOR DEPICTING THE EXACT LOCATIONS OF UTILITIES ON THESE DRAWINGS.

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
11/3/09

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

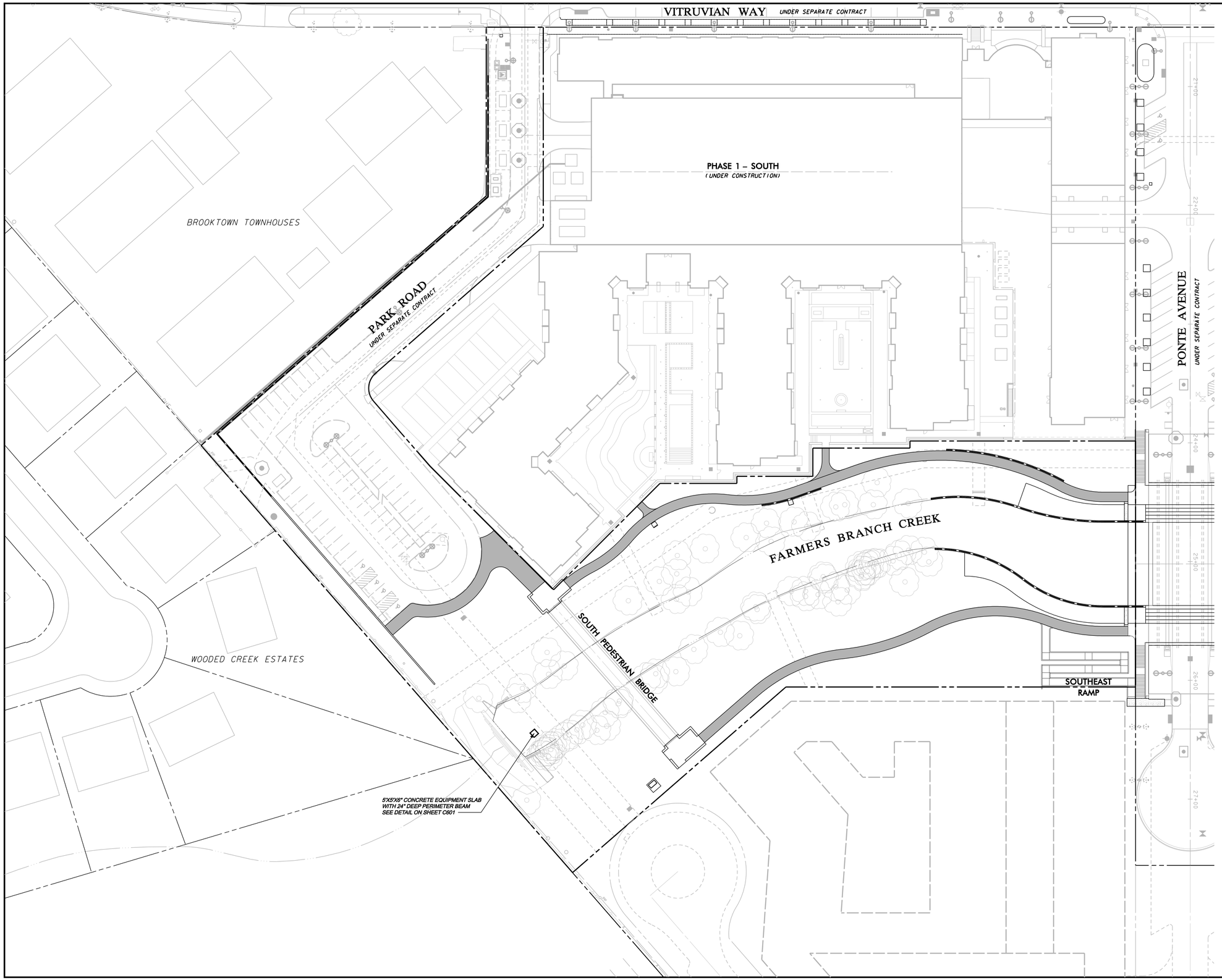
PAVING PLAN NORTH

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Civil Engineers - Designers - Planners
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Southlake, Tx 76092 (817) 552-6210

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C601

BID

PARK AND STREETSCAPE IMPROVEMENTS – VITRUVIAN PARK



NORTH

0 20 40 60 80
GRAPHIC SCALE IN FEET
SCALE: 1"=40'

LEGEND

STANDARD DUTY PAVEMENT:
6" (4200 PSI AT 28 DAYS) CONCRETE PVMT. W/ #3 BARS @ 18" O.C.E.W. ON 6" COMPACTED SUBGRADE TO 95% AT OR ABOVE OPTIMUM MOISTURE CONTENT (ASTM D 698). REFERENCE LANDSCAPE PLANS.

MISCELLANEOUS & FLATWORK:
4" REINFORCED CONCRETE FLATWORK (3000 PSI AT 28 DAYS) W/ #3 BARS @ 18" O.C.E.W. ON 6" COMPACTED SUBGRADE TO 95% AT OR ABOVE OPTIMUM MOISTURE CONTENT (ASTM D 698). REFERENCE LANDSCAPE PLANS.

RETAINING WALL:

PAVING NOTES

1. REFER TO SHEET C604 FOR "GENERAL PAVING NOTES" FOR

WARNING

CONTRACTOR IS TO CONTACT TEXAS ONE-CALL SYSTEM (1-800-245-4545) OR OTHER UTILITY LOCATING SERVICES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES. ICON CONSULTING ENGINEERS, INC. IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES IN THE PROJECT AREA NOR FOR DEPICTING THE EXACT LOCATIONS OF UTILITIES ON THESE DRAWINGS.

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
11/3/09

NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

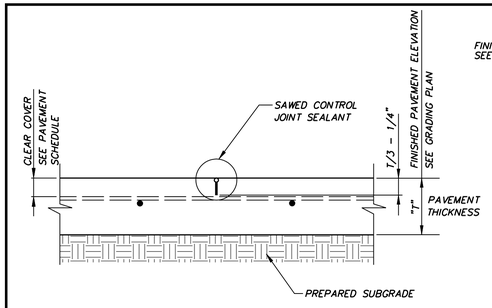
PAVING PLAN SOUTH

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

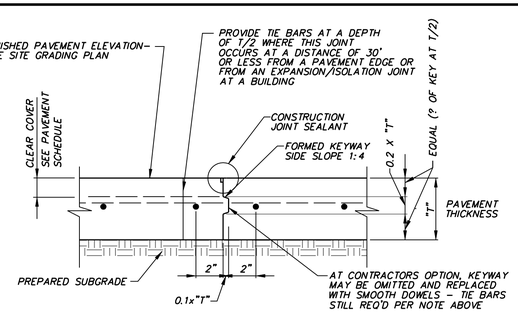
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C602

BID

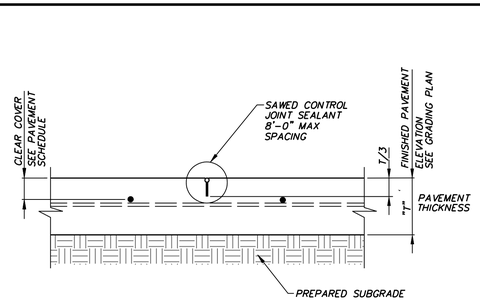
PARK AND STREETSCAPE IMPROVEMENTS – VITRUVIAN PARK



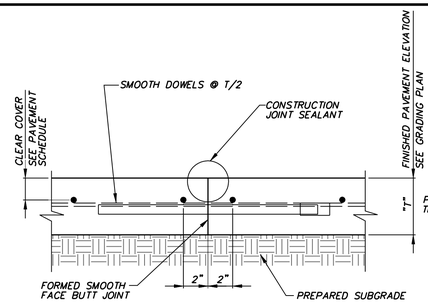
LONGITUDINAL CONTROL JOINT
NOT TO SCALE



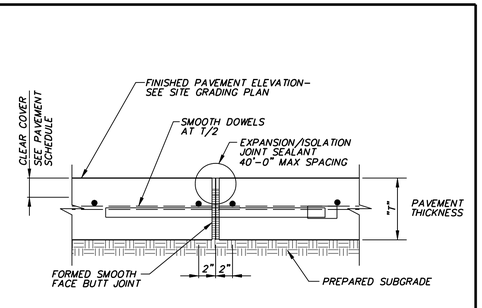
KEYED LONGITUDINAL CONSTRUCTION JOINT
NOT TO SCALE



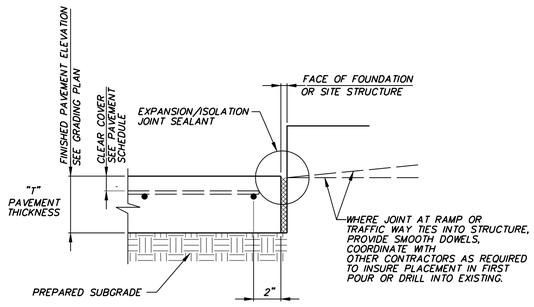
TRANSVERSE CONTROL JOINT
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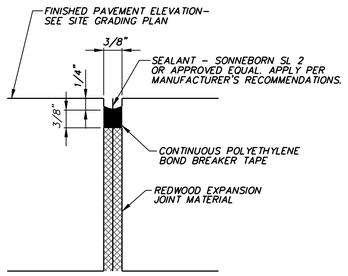
TRANSVERSE CONSTRUCTION JOINT
NOT TO SCALE



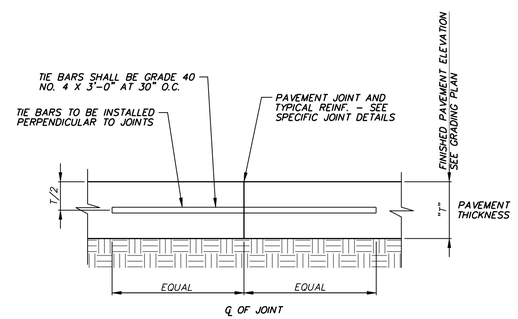
TRANSVERSE EXPANSION JOINT
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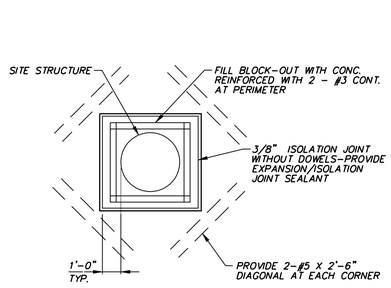
EXPANSION /ISOLATION JOINT AT STRUCTURES
NOT TO SCALE



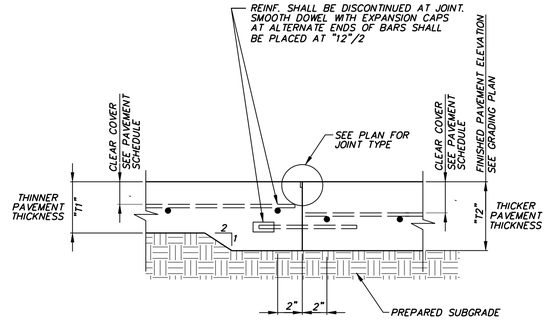
EXPANSION /ISOLATION JOINT SEALANT
NOT TO SCALE



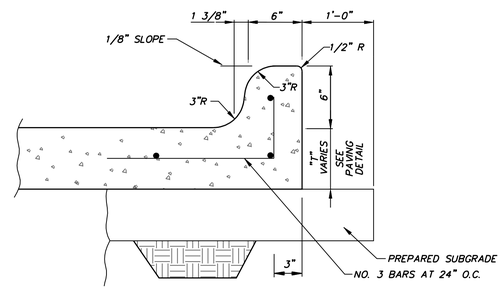
TIE BAR
NOT TO SCALE



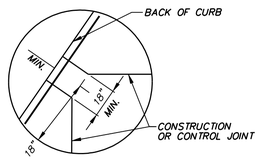
JOINT TREATMENT AT SITE STRUCTURES
NOT TO SCALE



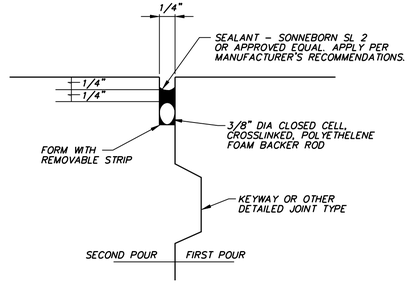
PAVEMENT DEPTH CHANGE/ ISOLATION JOINT
NOT TO SCALE



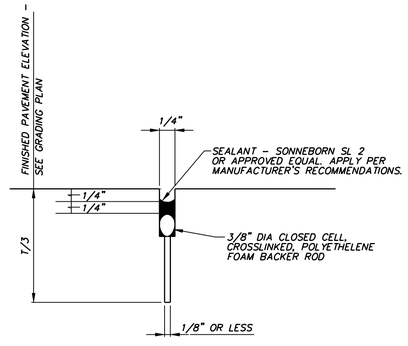
6" INTEGRAL CURB
NOT TO SCALE



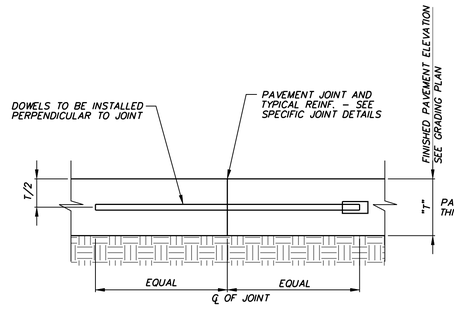
TYPICAL AT ALL ANGLED JOINT TERMINATIONS
NOT TO SCALE



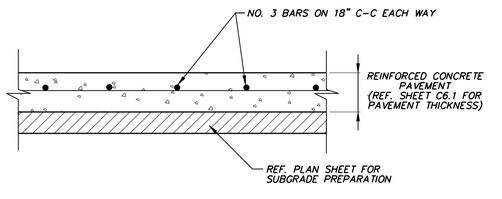
CONSTRUCTION JOINT SEALANT
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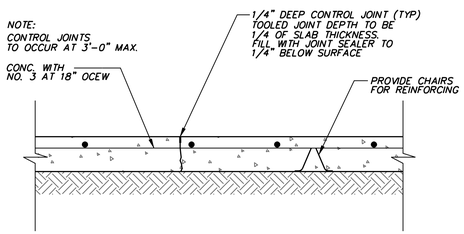
SAWED CONTROL JOINT SEALANT
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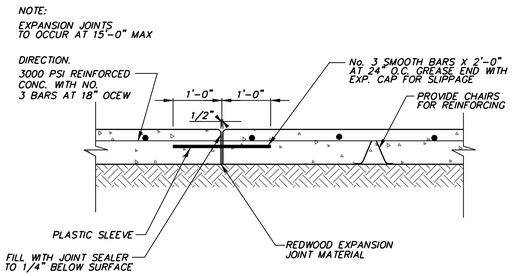
SMOOTH DOWEL
NOT TO SCALE



TYPICAL PAVEMENT SECTION
NOT TO SCALE



MISCELLANEOUS FLATWORK CONTROL JOINT
NOT TO SCALE



MISCELLANEOUS FLATWORK EXPANSION JOINT
NOT TO SCALE

STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED
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11/3/09

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

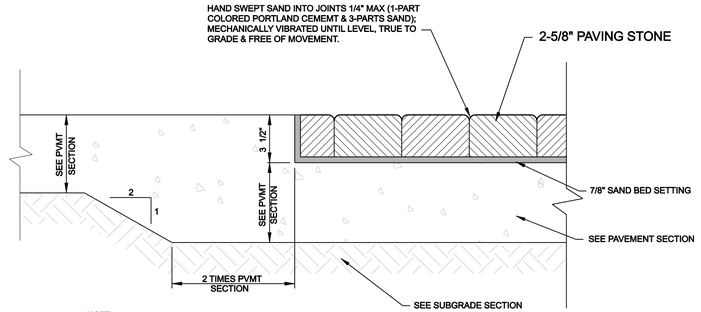
PAVING DETAILS

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C603

BID

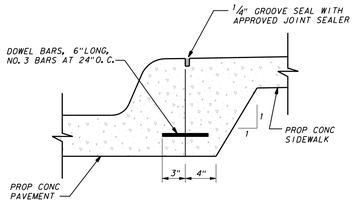
PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



NOTE:
CONTRACTOR SHALL CONFIRM THICKNESS OF FINAL PAVER SELECTION PRIOR TO POURING DROP SLABS IN THE SIDEWALKS

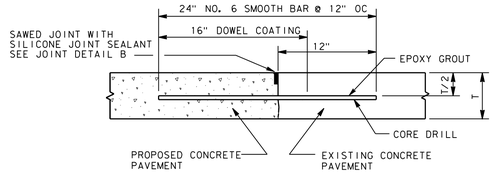
STREET PAVERS ON CONCRETE

N.T.S.



JOINT DETAIL FOR SIDEWALK ADJACENT TO CURB

NOT TO SCALE



PROPOSED TO EXISTING CONCRETE PAVEMENT

NOT TO SCALE

GENERAL PAVING NOTES:

1. *REFER TO SHEET C100 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THIS PROJECT.*
2. *ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG), AND ANY AND ALL AMENDMENTS BY THE TOWN OF ADDISON, AS WELL AS STANDARD CONSTRUCTION DETAILS SHOWN ON THE PLANS.*
3. *IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ANY PUBLIC UTILITY COMPANIES FOR LOCATION OF EXISTING FACILITIES IN OR NEAR THE WORK AREAS. THESE INCLUDE, BUT ARE NOT LIMITED TO THE FOLOWING:*

TOWN OF ADDISON (WATER, SEWER, SIGNALS)	*ATMOS ENERGY (GAS)*
ONCOR ELECTRIC DELIVERY	*VERIZON / MCI*
AT&T (SOUTHWESTERN BELL)	*TIME-WARNER CABLE*

4. *THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE AT ALL TIMES DURING CONSTRUCTION, INCLUDING PROVIDING ALL TEMPORARY STRUCTURES OR IMPROVEMENTS AS NESCESSARY FOR THE SAFETY OF THE PUBLIC.*
5. *THE TOWN OF ADDISON WILL PROVIDE A GEOTECHNICAL LABORATORY TO PERFORM APPROPRIATE TESTING DURING CONSTRUCTION ACTIVITIES. ANY TEST THAT FAILS TO MEET CITY REQUIREMENTS SHALL BE RETESTED AT THE CONTRACTORS EXPENSE.*
6. *THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS FOR THE SUPPORT AND PROTECTION OF ALL UTILITY POLES, FENCES, TREES, SHRUBS, UTILITY SERVICES, BUILDING FOUNDATIONS AND ALL OTHER UTILITIES AND STRUCTURES BOTH ABOVE AND BELOW THE GROUND, THE COST OF WHICH SHALL BE INCLUDED IN THE CONTRACT AMOUNT.*
7. *THE CONTRACTOR SHALL VERIFY THE ELEVATION, CONFIGURATION, AND ANGULATION OF EXISTING PAVEMENT PRIOR TO CONSTRUCTION OF TIE-IN MATERIALS. WHERE PROPOSED CONCRETE PAVEMENT TO EXISTING CONCRETE PAVEMENT IS TO BE CONSTRUCTED BY THE CONTRACTOR, AT LEAST 15" OF REINFORCING STEEL SHALL BE EXPOSED FROM THE EXISTING PAVEMENT, OR THE CONTRACTOR SHALL PROVIDE HORIZONTAL DOWEL BARS PER THE DETAILS.*
8. *NO PERSON SHALL OPEN, TURN OFF, INTERFERE WITH, ATTACH ANY HOSE TO, OR TAP ANY WATER MAIN BELONGING TO THE TOWN OF ADDISON UNLESS DULY AUTHORIZED TO DO SO BY THE TOWN OF ADDISON PUBLIC WORKS DEPARTMENT (972-450-2871).*
9. *ALL EXISTING AND PROPOSED IMPROVEMENTS (MANHOLE RIMS, CLEAN-OUTS, FIRE HYDRANTS, VALVE BOXES, WATER METERS AND VAULTS, ETC.) SHALL BE ADJUSTED TO FINAL FINISHED GRADE BY THE CONTRACTOR AT THE TIME OF PAVING.*
10. *PREPERATION OF SUBGRADE UNDER PAVED AREAS SHALL BE PERFORMED IN ACCORDANCE WITH THE TOWN OF ADDISON SPECIFICATIONS OR THE GEOTECHNICAL REPORT. THE MORE RESTRICTIVE REQUIREMENTS SHALL APPLY. PREPARATION OF THE SUBGRADE FOR PAVING WITHIN RIGHT-OF-WAY, STREET USE EASEMENTS AND/OR FIRE LANES SHALL NOT BE INITIATED UNTIL ALL TESTING OF UNDERGROUND UTILITIES HAS BEEN COMPLETED AND VERIFIED TO MEET THE SPECIFICATIONS AND AUTHORIZATION TO PROCEED HAS BEEN RECEIVED FROM THE INSPECTOR.*
11. *CONCRETE SHOULD BE PORTLAND CEMENT CONCRETE, CONFORMING TO THE REQUIREMENTS OF TxDOT ITEM 421, PORTLAND CEMENT CONCRETE CLASS "P".*
12. *THE CONTRACTOR SHALL SCHEDULE AND COORDINATE HIS WORK WITH TRENCHING OPERATIONS FOR OTHER UTILITIES INCLUDING GAS, TELEPHONE, AND ELECTRIC SERVICES, LANDSCAPE IRRIGATION CONDUITS, LIGHTING CONDUITS, STREETSCAPE IMPROVEMENTS, ETC. AND SHALL PROVIDE BLOCKOUTS AND/OR FINAL ADJUSTMENT TO FINISH GRADE FOR ALL IMPROVEMENTS, EXISTING AND PROPOSED, WITHIN THE LIMITS OF THE PAVING WORK.*
13. *ALL CURB SHOWN IS TO BE SIX (6) INCHES HIGH.*
14. *EXPANSION JOINT MATERIAL SHALL EXTEND COMPLETELY THROUGH THE CURB.*
15. *ALL REINFORCING BARS SHALL BE GRADE 40 KSI DEFORMED REINFORCING STEEL. SIZE AND SPACING SHALL BE IN ACCORDANCE WITH THE DETAILS. WHERE BARS ARE SPLICED, A 30" DIAMETER LAP SHALL BE USED.*
16. *ALL REINFORCING STEEL AND DOWEL BARS IN PAVEMENT SHALL BE SUPPORTED AND MAINTAINED AT THE CORRECT CLEARANCES BY THE USE OF BAR CHAIRS OR OTHER APPROVED SUPPORTS.*
17. *THE CONTRACTOR SHALL PROCEED WITH PAVING NO MORE THAN SEVENTY-TWO (72) HOURS AFTER DENSITY/MOISTURE TESTS HAVE BEEN TAKEN AND PASSED BY THE TESTING FIRM. COMPIES OF THE TEST RESULTS SHALL BE FURNISHED TO THE CITY. IN THE EVENT PAVING OPERATIONS HAVE NOT COMMENCED WITHIN THE SEVENTY-TWO (72) HOUR LIMIT, A RETEST SHALL BE REQUIRED AT THE CONTRACTOR'S EXPENSE.*
18. *CONCRETE SHALL NOT BE PLACED WHEN THE TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT AND FALLING, BUT MAY BE PLACED WHEN THE TEMPERATURE IS ABOVE 35 DEGREES FAHRENHEIT AND RISING. THE TEMPERATURE READING SHALL BE TAKEN IN THE SHADE AND AWAY FROM ARTIFICIAL HEAT.*
19. *CONSTRUCTION OF SIDEWALKS, WHEELCHAIR RAMPS AND ACCESSIBLE ROUTES SHALL BE IN ACCORDANCE WITH THE TEXAS ACCESSIBILITY STANDARDS (TAS) AND THE AMERICANS DISIBILITY ACT (ADA). ALL CONCRETE FOR HANDICAP RAMPS SHALL HAVE INTEGRAL STAIN INSTEAD OF PAINT.*
20. *PAVEMENT MARKINGS SHALL BE PROVIDED IN ACCORDANCE WITH THE TEXAS "UNIFORM TRAFFIC MANUAL FOR PAVEMENT MARKINGS". FIRE LANES SHALL BE STRIPED IN ACCORDANCE WITH THE TOWN OF ADDISON'S REQUIREMENTS. ALL HANDICAP SYMBOLS, SIGNAGE AND PAVEMENT MARKINGS SHALL COMPLY WITH TAS AND ADA STANDARDS.*
21. *MEMBRANE CURING TYPE 2, WHITE PIGMENTED, SHALL BE USED FOR CURING ALL CONCRETE SURFACES IMMEDIATELY AFTER FINISHING OF SURFACES AND SHALL BE IN ACCORDANCE WITH THE TxDOT ITEM #526.*
22. *THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR REPAIRS TO ALL EXISTING FACILITIES DAMAGED BY HIS ACTIVITIES.*
23. *THE CONTRACTOR SHALL PROVIDE PAVEMENT JOINTING IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:*
    - *A. SAW CUTTING SHALL BE DONE WITHIN EIGHT (8) HOURS OF POUR OR AS SOON AS CONCRETE CAN SUPPORT WEIGHT. PROVIDE A NEAT CUT WHICH IS TRUE IN ALIGNMENT.*
    - *B. CONTRACTOR SHALL MARK JOINT LOCATIONS AT THE CENTERLINE OF DOWEL LENGTH DURING HIS PAVING OPERATIONS.*
    - *C. ALL JOINTS ARE TO CONTINUE THROUGH THE CURB.*
    - *D. RADIAL JOINTS SHALL BE NO SHORTER THAN EIGHTEEN (18) INCHES.*
    - *E. ALL CONSTRUCTION JOINTS SHALL BE SAWN, CLEANED OF DEBRIS, BLOWN DRY AND IMMEDIATELY SEALED.*
    - *F. ODD SHAPED PANELS SHALL BE REINFORCED WITH #3 BARS AT 18" EACH WAY. AN ODD SHAPED PANEL IS CONSIDERED TO BE ONE IN WHICH THE SLAB TAPERS TO A SHARP ANGLE WHEN THE LENGTH TO WIDTH RATIO EXCEEDS 3 TO 1 OR WHEN A SLAB IS NEITHER SQUARE NOR RECTANGULAR.*
    - *G. THE CONTRACTOR SHALL SUBMIT HIS DESIRED JOINT LAYOUT PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO BEGINNING WORK.*
24. *THE CONTRACTOR SHALL PROVIDE VERIFICATION OF COMPLETION AND COMPLIANCE OF ANY AND ALL REQUIRED TESTS TO THE TOWN OF ADDISON.*

STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
11/3/09

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

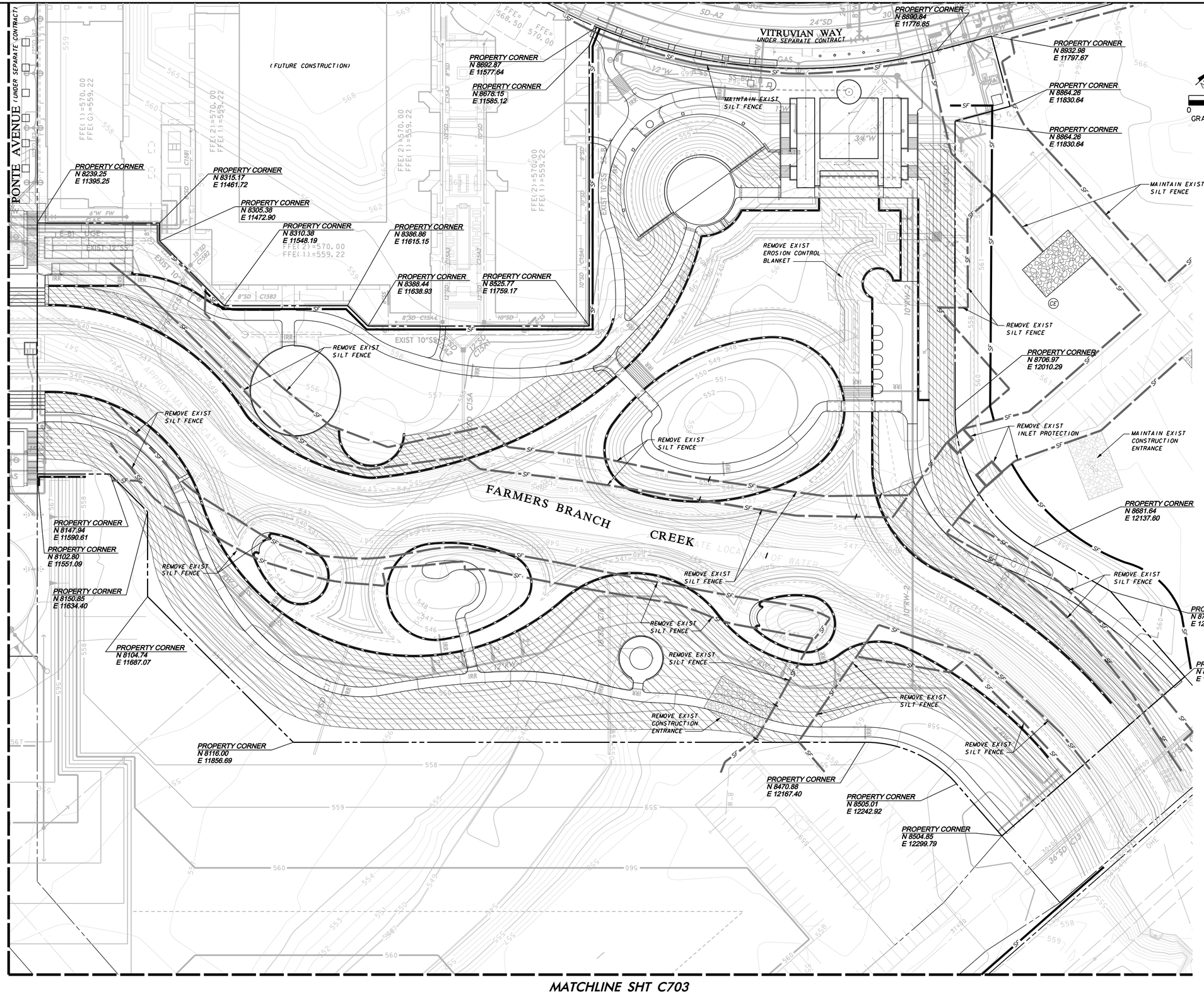
PAVING DETAILS

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C604

BID

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



EROSION CONTROL NOTES

1. GENERAL CONSTRUCTION NOTES: REFER TO SHEET C100 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THE PROJECT.

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LEGEND

- SILT FENCE — SF
- EXISTING SILT FENCE — SF
- INLET PROTECTION — IP
- STABILIZED CONSTRUCTION ENTRANCE — CE
- EROSION CONTROL BLANKET CURLEX II OR APPROVED EQ. NATURAL COLOR

WARNING

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BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS — BRUCE F. DUNNE — 62654 — LICENSED PROFESSIONAL ENGINEER — 11/3/09

NO.	REVISION	BY	DATE

Addison — TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

EROSION & SEDIMENT CONTROL PLAN NORTH

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C701

BID

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

VITRUVIAN WAY

PROPERTY CORNER
N 7888.38
E 10712.49

PROPERTY CORNER
N 8024.49
E 10744.11

MAINTAIN EXISTING SILT FENCE
UNDER SEPARATE CONTRACT

MAINTAIN EXIST SILT FENCE
UNDER SEPARATE CONTRACT

PROPERTY CORNER
N 7894.78
E 10819.39

PHASE 1 – SOUTH
FFE(1)=568.75
FFE(G)=558.00
FFE(B)=547.25
(UNDER CONSTRUCTION)

PROPERTY CORNER
N 7913.93
E 10870.39

BROOKTOWN TOWNHOUSES

PARK ROAD
UNDER SEPARATE CONTRACT

PROPERTY CORNER
N 7726.08
E 10870.39

PROPERTY CORNER
N 7709.59
E 10886.83

PROPERTY CORNER
N 7575.85
E 10819.39

PROPERTY CORNER
N 7709.30
E 10959.59

PROPERTY CORNER
N 7961.72
E 11160.24

PROPERTY CORNER
N 8027.20
E 11209.59

PROPERTY CORNER
N 8023.25
E 11214.11

PROPERTY CORNER
N 7897.97
E 11135.79

PROPERTY CORNER
N 7946.07
E 11178.11

PROPERTY CORNER
N 8170.03
E 11334.64

PROPERTY CORNER
N 7894.02
E 11140.51

PROPERTY CORNER
N 7845.31
E 11097.86

PONTE AVENUE
(UNDER SEPARATE CONTRACT)

PROPERTY CORNER
N 7719.03
E 11106.24

REMOVE EXIST SILT FENCE

REMOVE EXIST SILT FENCE

FARMERS BRANCH CREEK

MAINTAIN EXIST SILT FENCE

REMOVE EXIST SILT FENCE

REMOVE EXIST SILT FENCE

MAINTAIN EXIST SILT FENCE

WOODED CREEK ESTATES

VITRUVIAN PARK

MAINTAIN EXIST SILT FENCE

REMOVE EXIST SILT FENCE

PROPERTY CORNER
N 7812.18
E 11296.64

PROPERTY CORNER
N 8033.58
E 11490.48

PROPERTY CORNER
N 7574.46
E 11168.82

PROPERTY CORNER
N 7574.11
E 11295.98

FUTURE STREET

MATCHLINE SHT C701

MATCHLINE SHT C701

EROSION CONTROL NOTES

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LEGEND

SILT FENCE — SF

EXISTING SILT FENCE — SF

INLET PROTECTION (IP)

STABILIZED CONSTRUCTION ENTRANCE (CE)

EROSION CONTROL BLANKET CURLEX II OR APPROVED EQ. NATURAL COLOR

NORTH

0 20 40 60 80
GRAPHIC SCALE IN FEET
SCALE: 1"=40'

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BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
11/3/09

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

EROSION & SEDIMENT CONTROL PLAN SOUTH

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C702

BID

PARK AND STREETSCAPE IMPROVEMENTS – VITRUVIAN PARK

MATCHLINE SHT C702

MATCHLINE SHT C701

EROSION CONTROL NOTES

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LEGEND

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NORTH

0 20 40 60 80
GRAPHIC SCALE IN FEET
SCALE: 1"=40'

PROPERTY CORNER
N 7572.77
E 11776.02

PROPERTY CORNER
N 7571.07
E 12380.18

FUTURE STREET

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STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
11/3/09

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

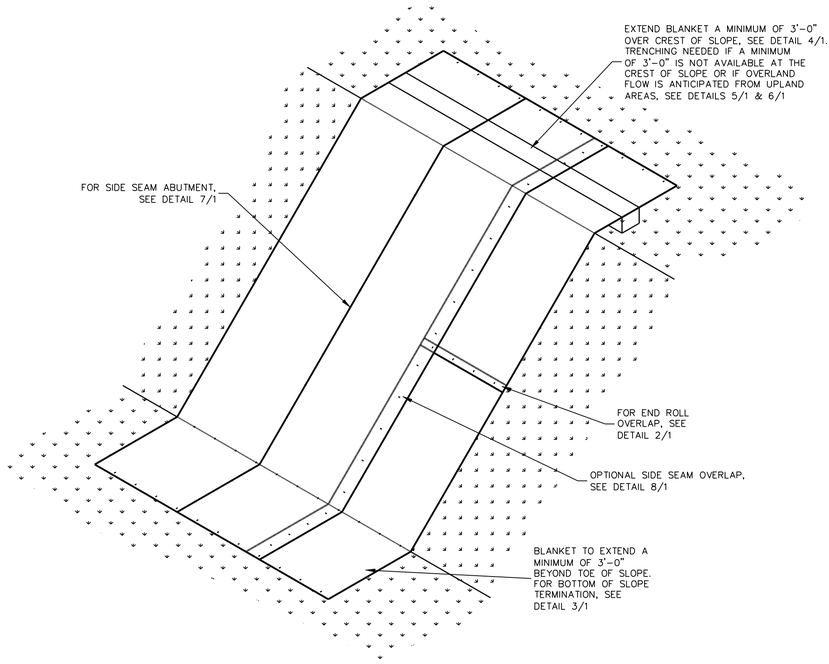
EROSION & SEDIMENT CONTROL PLAN EAST

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Civil Engineers - Designers - Planners
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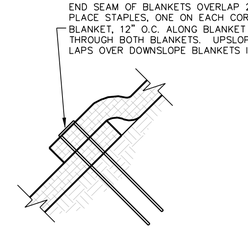
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C703

BID

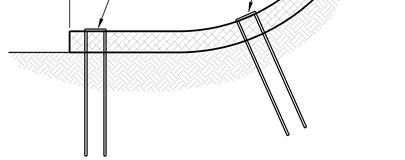
PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



SLOPE DETAIL 1/1
NO SCALE

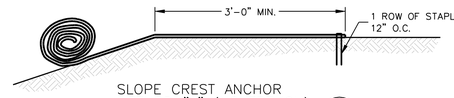


END ROLL OVERLAP 2/1
NO SCALE



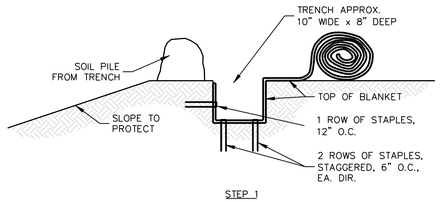
BOTTOM OF SLOPE TERMINATION 3/1
NO SCALE

EROSION CONTROL BLANKET
NOT TO SCALE

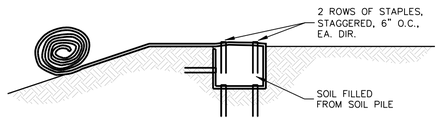


SLOPE CREST ANCHOR METHOD "A" (NO TRENCH) 4/1
NO SCALE

DO NOT NEED TO TRENCH BLANKET IN IF IT CAN BE EXTENDED A MINIMUM OF 3'-0" OVER THE CREST OF THE SLOPE.

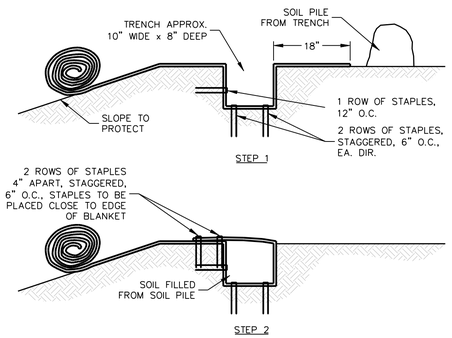


STEP 1

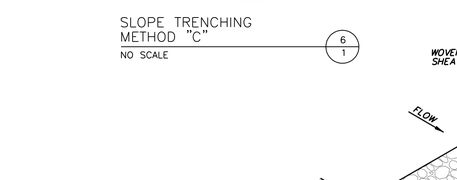


STEP 2

SLOPE TRENCHING METHOD "B" 5/1
NO SCALE

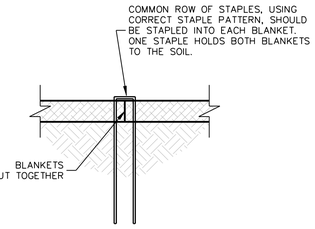


STEP 1

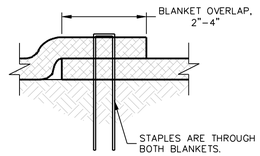


STEP 2

SLOPE TRENCHING METHOD "C" 6/1
NO SCALE



SIDE SEAM ABUT STAPLE DETAIL 7/1
NO SCALE



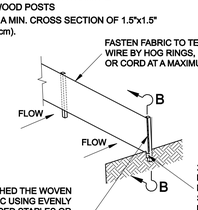
SIDE SEAM OVERLAP STAPLE DETAIL 8/1
NO SCALE

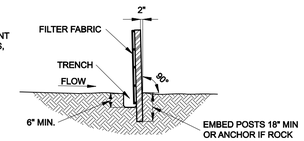
NOTES:
1. STAPLE PATTERNS ARE DEPENDENT ON SITE CONDITIONS. SEE CURLEX® STAPLE PATTERN GUIDE FOR DETAILS.
2. E-STAPLE® MAY BE USED IN PLACE OF WIRE STAPLES.
3. CURLEX® IN NEUTRAL COLOR.

NOTES: SILT FENCE

1. Posts which support the silt fence shall be installed on a slight angle toward the anticipated runoff source. The post must be embedded a minimum of 18 inches.
2. The toe of the silt fence shall be trenched in with a spade or mechanical trencher, so that the downslope face of the trench is flat and perpendicular to the line of flow. Where fence cannot be trenched in (e.g. pavement), weight fabric flap with washed grave on the uphill side to
3. The trench must be a minimum of 6 inches deep and 6 inches wide to allow for the silt fence fabric to be laid in the ground and backfilled with compacted material.
4. Silt fence shall be securely fastened to each support post or to woven wire, which is in turn attached to the support post. There shall be a 6 inch double overlap, securely fastened where ends of fabric meet.
5. Inspection shall be made daily or after each rainfall. Repair or replacement shall be made promptly as needed.
6. Silt fence shall be removed when the site is completely stabilized so as not to block or impede storm flow or drainage.
7. Accumulated silt shall be removed when it reached a depth of 3 inches. The silt shall be disposed of at an approved site and in such a manner as to prevent flow under fence not contribute to aditional siltation.

4' MIN. STEEL OR WOOD POSTS SPACED AT 5' TO 8' SOFTWOOD POSTS SHALL BE 3" MIN. IN. DIA. OR NOMINAL 2"x4" HARDWOOD POSTS SHALL HAVE A MIN. CROSS SECTION OF 1.5"x1.5" (3.8 cm x 3.8 cm).

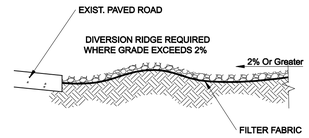




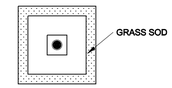
2" ACROSS TRENCH BOTTOM IN UPSTREAM DIRECTION. MINIMUM TRENCH SIZE SHALL BE 6" SQUARE. BACKFILL AND HAND TAMP.

SECTION A

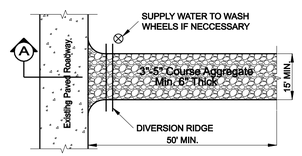
SILT FENCE



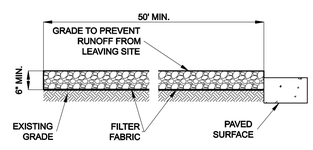
SECTION B



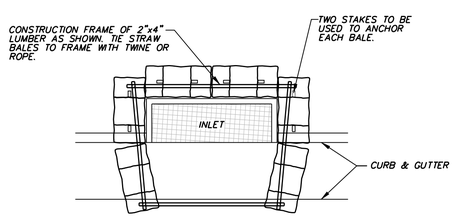
DROP INLET PROTECTION (TYP)



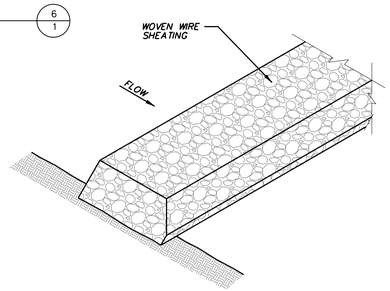
PLAN



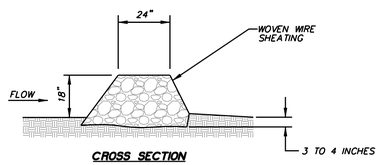
TEMPORARY STONE CONSTRUCTION ENTRANCE / EXIT



CURB INLET PROTECTION
NOT TO SCALE



ISOMETRIC PLAN VIEW



CROSS SECTION

NOTES:
1. USE OPEN GRADED ROCK 4-8 INCHES IN DIAMETER FOR STREAM FLOW CONDITION. USE OPEN GRADED ROCK 3-5 INCHES IN DIAMETER FOR OTHER CONDITIONS.
2. THE ROCK DAM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING A MAXIMUM OPENING OF 1 INCH AND A MINIMUM WIRE SIZE OF 20 GAUGE AND SHALL BE BURIED IN A TRENCH APPROXIMATELY 3 TO 4 INCHES DEEP.
3. THE ROCK DAM SHALL BE INSPECTED WEEKLY OR AFTER EACH RAIN EVENT AND SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
4. WHEN SILT REACHES DEPTH EQUAL TO ONE-THIRD OF THE HEIGHT OF THE DAM OR ONE FOOT, WHICHEVER IS LESS, THE SILT SHALL BE REMOVED AND DISPOSED OF PROPERLY.
5. WHEN THE SITE IS COMPLETELY STABILIZED, THE DAM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

ROCK CHECK DAM
NOT TO SCALE

STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED PROFESSIONAL ENGINEER
11/3/09

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

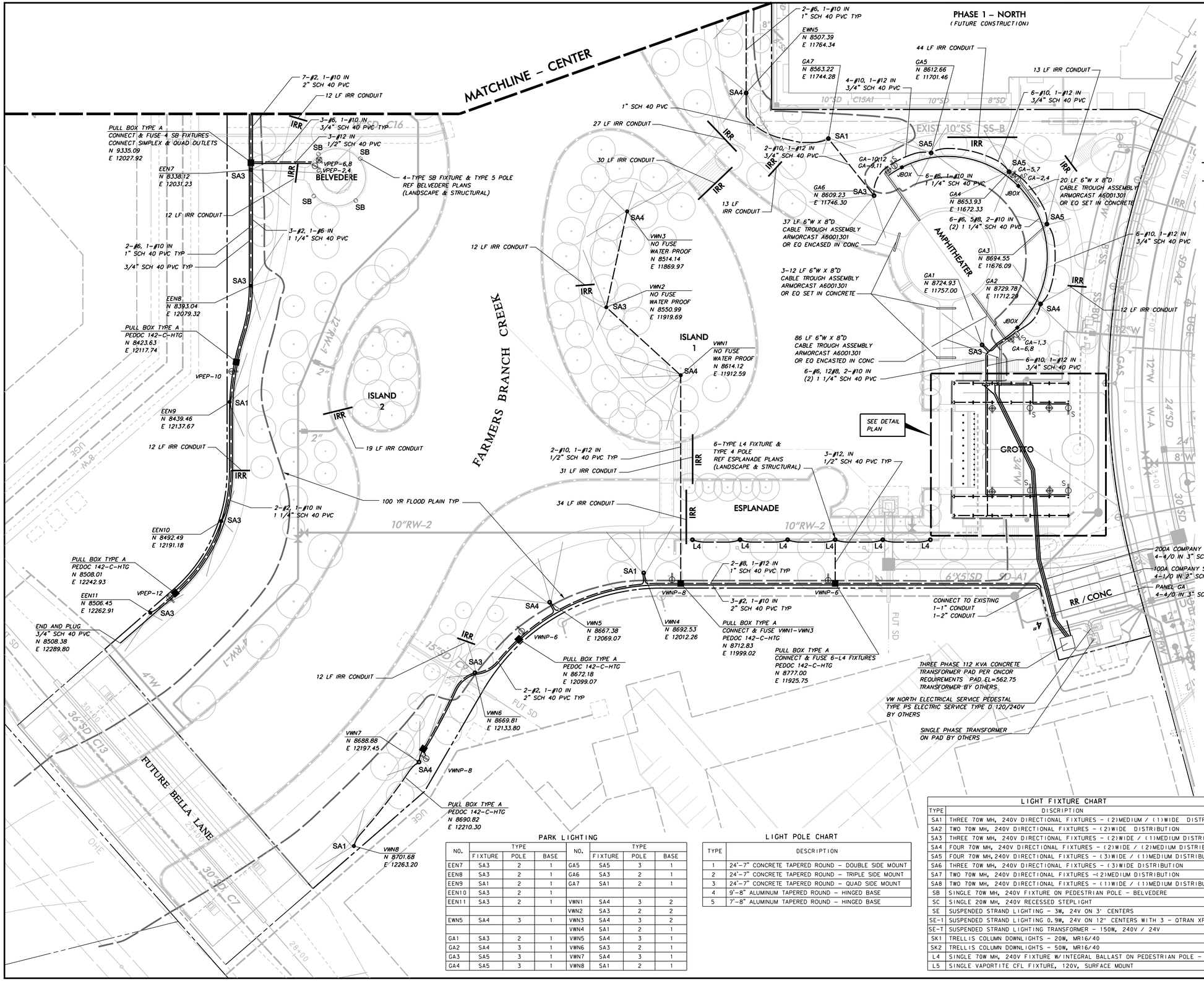
EROSION & SEDIMENT CONTROL DETAILS

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C704

BID

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



LEGEND

- DUPLEX 20A GFCI RECEPTACLE HUBBELL GFR53625GW OR EQ
- SIMPLEX 30A 120/240V 4 WIRE L14-30 LOCKING RECEPTACLE HUBBELL OR EQ WITH WHILE-IN-USE WATERPROOF COVER
- QUAD (2) CIRCUIT 20A GFCI RECEPTACLE (2) HUBBELL GFR53625GW OR EQ WITH WHILE-IN-USE WATERPROOF COVER
- SAX — LIGHT POLE BASE AND FIXTURE TYPE
- XX-XX — PANEL DESIGNATION & CIRCUIT NUMBER
- POWER CONDUIT
- LIGHTING CONDUIT
- IRR — IRRIGATION SLEEVE – 1-6" & 1-2" SCH 40 PVC UNLESS OTHERWISE NOTED

NORTH

0 15 30 45 60
GRAPHIC SCALE IN FEET
SCALE: 1"=30'

LIGHTING, ELECTRICAL & CONDUIT NOTES

1. REFER TO SHEET C100 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THE PROJECT.
2. REFER TO SHEET C804 FOR GENERAL ELECTRICAL NOTES FOR THE PROJECT.
3. REFER TO SHEET C807 - ED (1)-03 FOR ELECTRIC DETAILS - CONDUIT. RIGID METAL CONDUIT ELBOWS ARE NOT REQUIRED.
4. REFER TO SHEET C808 - ED (2)-03 FOR ELECTRIC DETAILS - CONDUCTORS.
5. REFER TO SHEET C809 - ED (3 -03 FOR ELECTRIC DETAILS - GROUND BOXES. RIGID METAL CONDUIT ELBOWS ARE NOT REQUIRED. CONCRETE APRON IS NOT REQUIRED.
6. REFER TO SHEET C810 - ED (8)-03 FOR ELECTRIC DETAILS - ELECTRICAL SERVICE SUPPORT PEDESTAL SERVICE TYPE PS. PEDESTAL SERVICE SHALL BE ALUMINUM, COLOR GRAY. RIGID METAL ELBOWS ARE NOT REQUIRED.
7. WATER, SANITARY SEWER, AND STORM DRAIN LINES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL LOCATE ALL UTILITY LINES IN THE AREA PRIOR TO DIGGING.
8. ALL CONDUITS AT LIGHT POLE BASES TO BE WITHIN THE DRILLED SHAFT FOUNDATION. NO EXPOSED CONDUIT AT POLE BASES WILL BE ALLOWED.
9. ALL CONDUITS, JBOXES, DEVICE BOXES, ETC. TO BE CONCEALED WITHIN THE STRUCTURES. NO EXPOSED CONDUITS WILL BE ALLOWED UNLESS IN CONCEALED OR OTHER APPROVED AREAS.
10. CONNECTION TO POWER COMPANY CIRCUITS TO BE MADE ONLY BY POWER COMPANY.
11. UNLESS OTHERWISE INDICATED ALL WORK SHALL CONFORM TO THE 2008 NATIONAL ELECTRICAL CODE (NFPA 70) AND THE 2007 NATIONAL ELECTRICAL SAFETY CODE (ANSI C2).
12. ALL EMPTY CONDUIT INSTALLED FOR FUTURE EXTENSION SHALL BE TURNED UP AND EXTENDED UP TO FINISHED GRADE. CAP ENDS OF ALL CONDUITS.
13. IRRIGATION SLEEVES "IRR" SHALL CONSIST OF 1-6" SCH 40 PVC AND 1-2" SCH 40 PVC INSTALLED WITH MINIMUM 24" COVER AND EXTENDING 2' BEYOND THE BACKS OF CURB OR EDGE OF PAVEMENT AND UP TO FINISHED GRADE. CAP ENDS OF ALL CONDUITS.

WARNING

CONTRACTOR IS TO CONTACT TEXAS ONE-CALL SYSTEM (1-800-245-4545) OR OTHER UTILITY LOCATING SERVICES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES. ICON CONSULTING ENGINEERS, INC. IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES IN THE PROJECT AREA NOR FOR DEPICTING THE EXACT LOCATIONS OF UTILITIES ON THESE DRAWINGS.

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS — BRUCE F. DUNNE — 62654 — LICENSED PROFESSIONAL ENGINEER — 11/3/09

PARK LIGHTING

NO.	TYPE			NO.	TYPE		
	FIXTURE	POLE	BASE		FIXTURE	POLE	BASE
EEN7	SA3	2	1	GA5	SA5	3	1
EEN8	SA3	2	1	GA6	SA3	2	1
EEN9	SA1	2	1	GA7	SA1	2	1
EEN10	SA3	2	1				
EEN11	SA3	2	1	VWN1	SA4	3	2
				VWN2	SA3	2	2
EWN5	SA4	3	1	VWN3	SA4	3	2
				VWN4	SA1	2	1
GA1	SA3	2	1	VWN5	SA4	3	1
GA2	SA4	3	1	VWN6	SA3	2	1
GA3	SA5	3	1	VWN7	SA4	3	1
GA4	SA5	3	1	VWN8	SA1	2	1

LIGHT POLE CHART

TYPE	DESCRIPTION
1	24'-7" CONCRETE TAPERED ROUND – DOUBLE SIDE MOUNT
2	24'-7" CONCRETE TAPERED ROUND – TRIPLE SIDE MOUNT
3	24'-7" CONCRETE TAPERED ROUND – QUAD SIDE MOUNT
4	9'-8" ALUMINUM TAPERED ROUND – HINGED BASE
5	7'-8" ALUMINUM TAPERED ROUND – HINGED BASE

LIGHT FIXTURE CHART

TYPE	DISCRIPTION
SA1	THREE 70W MH, 240V DIRECTIONAL FIXTURES – (2)MEDIUM / (1)WIDE DISTRIBUTION
SA2	TWO 70W MH, 240V DIRECTIONAL FIXTURES – (2)WIDE DISTRIBUTION
SA3	THREE 70W MH, 240V DIRECTIONAL FIXTURES – (2)WIDE / (1)MEDIUM DISTRIBUTION
SA4	FOUR 70W MH, 240V DIRECTIONAL FIXTURES – (2)WIDE / (2)MEDIUM DISTRIBUTION
SA5	FOUR 70W MH, 240V DIRECTIONAL FIXTURES – (3)WIDE / (1)MEDIUM DISTRIBUTION
SA6	THREE 70W MH, 240V DIRECTIONAL FIXTURES – (3)WIDE DISTRIBUTION
SA7	TWO 70W MH, 240V DIRECTIONAL FIXTURES –(2)MEDIUM DISTRIBUTION
SA8	TWO 70W MH, 240V DIRECTIONAL FIXTURES – (1)WIDE / (1)MEDIUM DISTRIBUTION
SB	SINGLE 70W MH, 240V FIXTURE ON PEDESTRIAN POLE – BELVEDERE
SC	SINGLE 20W MH, 240V RECESSED STEPLIGHT
SE	SUSPENDED STRAND LIGHTING – 3W, 24V ON 3' CENTERS
SE-1	SUSPENDED STRAND LIGHTING 0.9W, 24V ON 12" CENTERS WITH 3 – QTRAN XFERS
SE-T	SUSPENDED STRAND LIGHTING TRANSFORMER – 150W, 240V / 24V
SK1	TRELLIS COLUMN DOWNLIGHTS – 20W, MR16/40
SK2	TRELLIS COLUMN DOWNLIGHTS – 50W, MR16/40
L4	SINGLE 70W MH, 240V FIXTURE W/INTEGRAL BALLAST ON PEDESTRIAN POLE – ESPLANADE
L5	SINGLE VAPORTITE CFL FIXTURE, 120V, SURFACE MOUNT

NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

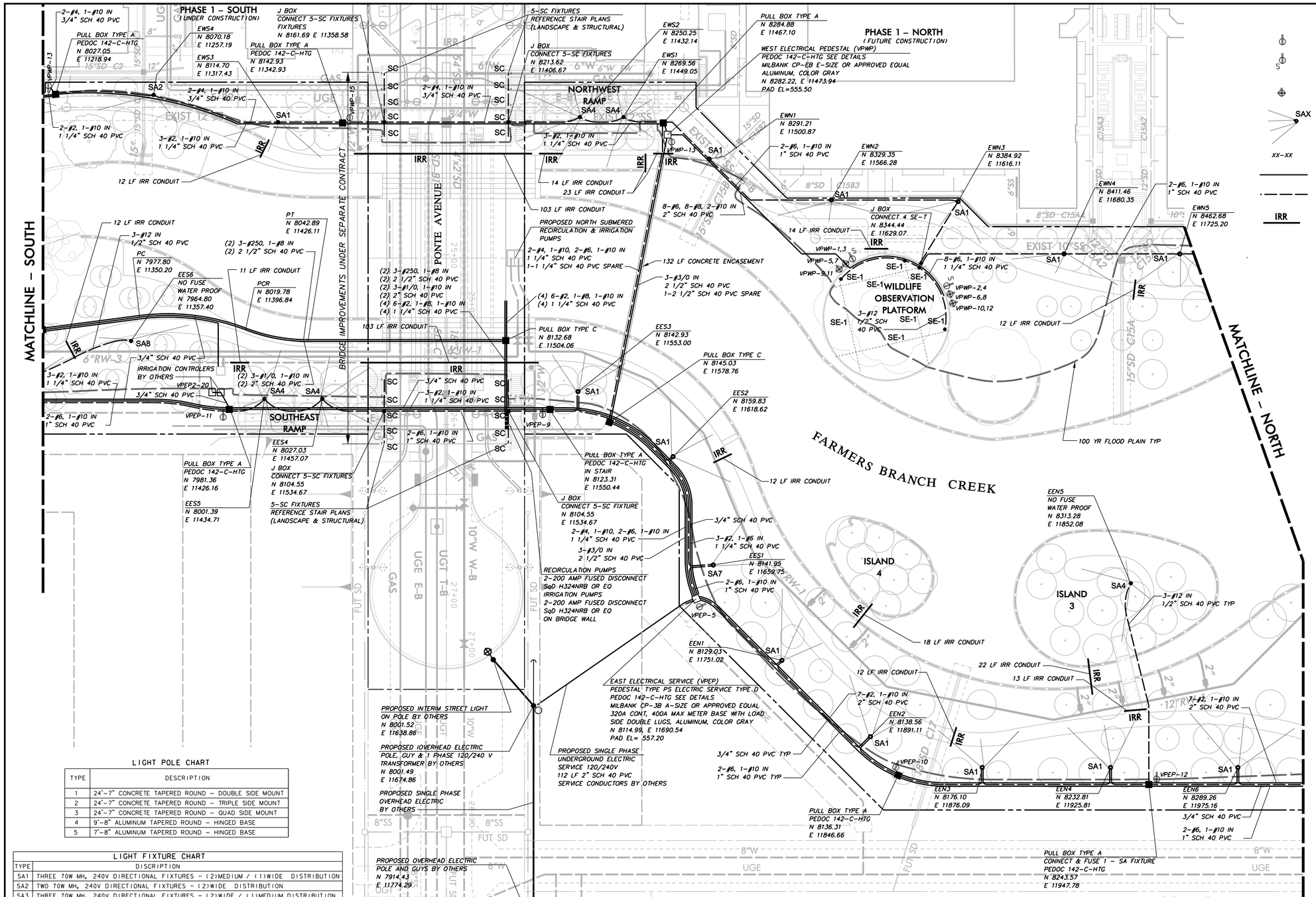
PARK LIGHTING & ELECTRICAL PLAN NORTH

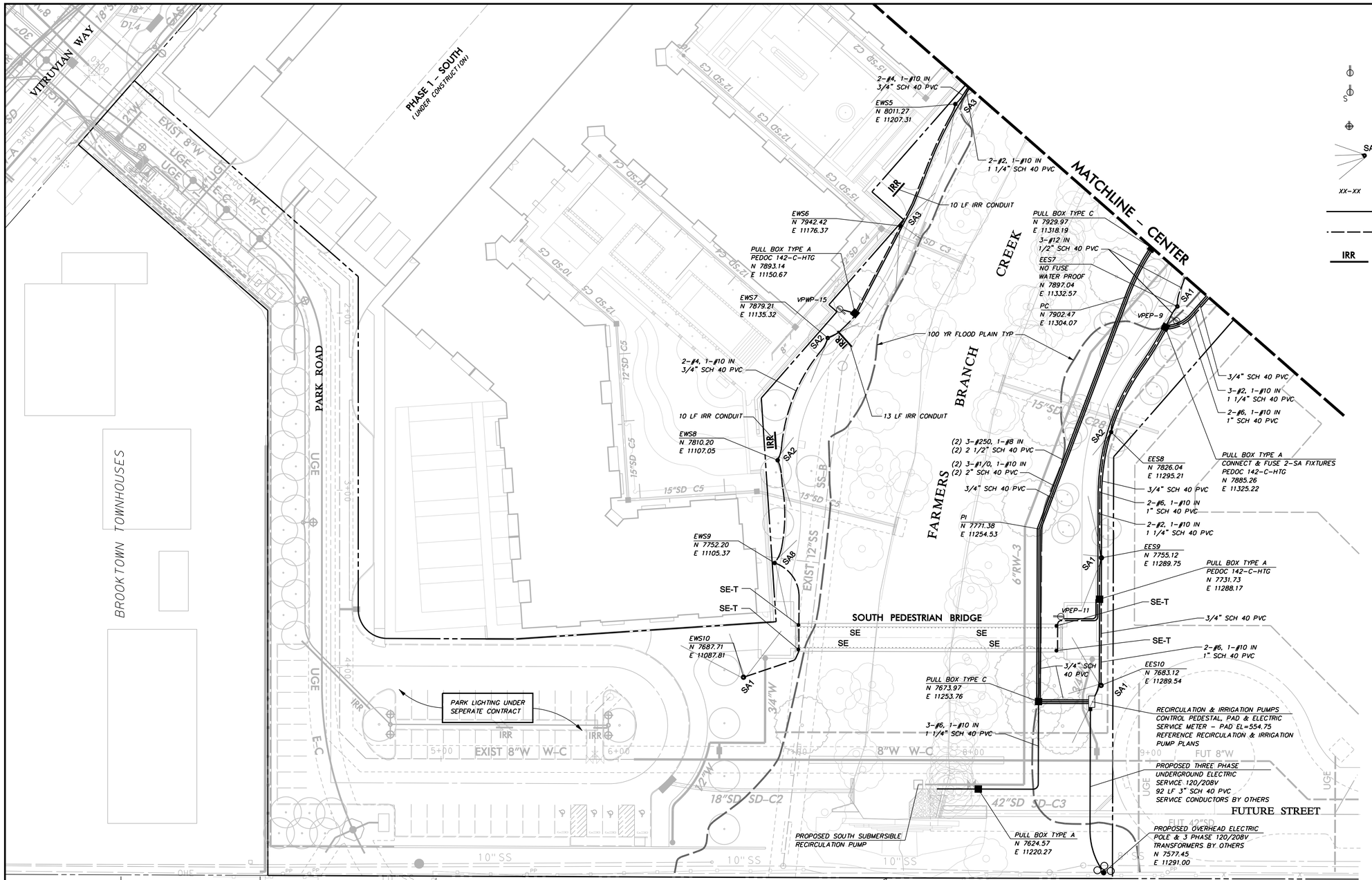
icon Consulting Engineers, Inc.
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PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C801

BID

PARK AND STREETSCAPE IMPROVEMENTS – VITRUVIAN PARK


PHASE 1 – SOUTH
(UNDER CONSTRUCTION)
PHASE 1 – NORTH
(FUTURE CONSTRUCTION)
MATCHLINE – SOUTH
MATCHLINE – NORTH
PONTE AVENUE BRIDGE IMPROVEMENTS UNDER SEPARATE CONTRACT
NORTHWEST RAMP
SOUTHEAST RAMP
WILDLIFE OBSERVATION PLATFORM
FARMERS BRANCH CREEK
100 YR FLOOD PLAIN TYP
ISLAND 4
ISLAND 3
J BOX CONNECT 5-SC FIXTURES FIXTURES N 8161.69 E 11358.58
PULL BOX TYPE A PEDOC 142-C-HTG N 8027.05 E 11218.94
PULL BOX TYPE A PEDOC 142-C-HTG N 8142.93 E 11342.93
EWS4 N 8070.18 E 11257.19
EWS3 N 8114.70 E 11317.43
EWS2 N 8250.25 E 11432.14
EWS1 N 8269.56 E 11449.05
5-SC FIXTURES REFERENCE STAIR PLANS (LANDSCAPE & STRUCTURAL)
J BOX CONNECT 5-SC FIXTURES N 8213.62 E 11406.67
PULL BOX TYPE A N 8284.88 E 11467.10
WEST ELECTRICAL PEDESTAL (VPWP) PEDOC 142-C-HTG SEE DETAILS MILBANK CP-EB E-SIZE OR APPROVED EQUAL ALUMINUM, COLOR GRAY N 8282.22, E 11473.94 PAD EL=555.50
EWN1 N 8291.21 E 11500.87
EWN2 N 8329.35 E 11566.28
EWN3 N 8384.92 E 11616.11
EWN4 N 8411.46 E 11680.35
EWN5 N 8462.68 E 11725.20
J BOX CONNECT 4 SE-T N 8344.44 E 11629.07
PT N 8042.89 E 11426.11
PC N 7977.80 E 11350.20
PCR N 8019.78 E 11396.84
EES6 NO FUSE WATER PROOF N 7964.80 E 11357.40
PROPOSED NORTH SUBMERED RECIRCULATION & IRRIGATION PUMPS
EES3 N 8142.93 E 11553.00
PULL BOX TYPE C N 8132.68 E 11504.06
PULL BOX TYPE C N 8145.03 E 11578.76
EES2 N 8159.83 E 11618.62
EES4 N 8027.03 E 11457.07
EES5 N 8001.39 E 11434.71
PULL BOX TYPE A PEDOC 142-C-HTG N 7981.36 E 11426.16
IRRIGATION CONTROLERS BY OTHERS
PULL BOX TYPE A PEDOC 142-C-HTG IN STAIR N 8123.31 E 11550.44
J BOX CONNECT 5-SC FIXTURE N 8104.55 E 11534.67
5-SC FIXTURES REFERENCE STAIR PLANS (LANDSCAPE & STRUCTURAL)
J BOX CONNECT 5-SC FIXTURES N 8104.55 E 11534.67
RECIRCULATION PUMPS 2-200 AMP FUSED DISCONNECT SqD H324NRB OR EQ
IRRIGATION PUMPS 2-200 AMP FUSED DISCONNECT SqD H324NRB OR EQ ON BRIDGE WALL
EES1 N 8141.95 E 11659.75
EEN1 N 8129.03 E 11751.02
EAST ELECTRICAL SERVICE (VPEP) PEDESTAL TYPE PS ELECTRIC SERVICE TYPE D PEDOC 142-C-HTG SEE DETAILS MILBANK CP-3B A-SIZE OR APPROVED EQUAL 320A CONT, 400A MAX METER BASE WITH LOAD SIDE DOUBLE LUGS, ALUMINUM, COLOR GRAY N 8114.99, E 11690.54 PAD EL= 557.20
EEN2 N 8138.56 E 11891.11
EEN3 N 8176.10 E 11876.09
EEN4 N 8232.81 E 11925.81
EEN5 NO FUSE WATER PROOF N 8313.28 E 11852.08
EEN6 N 8289.26 E 11975.16
PULL BOX TYPE A PEDOC 142-C-HTG N 8136.31 E 11846.66
PULL BOX TYPE A CONNECT & FUSE 1 – SA FIXTURE PEDOC 142-C-HTG N 8243.57 E 11947.78
PROPOSED INTERIM STREET LIGHT ON POLE BY OTHERS N 8001.52 E 11638.86
PROPOSED OVERHEAD ELECTRIC POLE, GUY & 1 PHASE 120/240 V TRANSFORMER BY OTHERS N 8001.49 E 11674.86
PROPOSED SINGLE PHASE OVERHEAD ELECTRIC BY OTHERS
PROPOSED OVERHEAD ELECTRIC POLE AND GUYS BY OTHERS N 7914.43 E 11774.29
PROPOSED SINGLE PHASE UNDERGROUND ELECTRIC SERVICE 120/240V 112 LF 2" SCH 40 PVC SERVICE CONDUCTORS BY OTHERS
EXIST ONE 3 PHASE
VPEP-1
VPEP-2
VPEP-5
VPEP-9
VPEP-10
VPEP-11
VPEP-12
VPWP-1,3
VPWP-5,7
VPWP-9,11
VPWP-2,4
VPWP-6,8
VPWP-10,12
VPWP-13
VPWP-15
SA1
SA2
SA4
SA7
SA8
SE-1
SE-1WILDLIFE OBSERVATION PLATFORM
SC
IRR
SAX
2-#4, 1-#10 IN 3/4" SCH 40 PVC
2-#2, 1-#10 IN 1 1/4" SCH 40 PVC
3-#2, 1-#10 IN 1 1/4" SCH 40 PVC
12 LF IRR CONDUIT
14 LF IRR CONDUIT
23 LF IRR CONDUIT
103 LF IRR CONDUIT
11 LF IRR CONDUIT
132 LF CONCRETE ENCASEMENT
3-#3/0 IN 2 1/2" SCH 40 PVC 1-2 1/2" SCH 40 PVC SPARE
(4) 6-#2, 1-#8, 1-#10 IN (4) 1 1/4" SCH 40 PVC
2-#4, 1-#10, 2-#6, 1-#10 IN 1 1/4" SCH 40 PVC 1-1 1/4" SCH 40 PVC SPARE
(2) 3-#250, 1-#8 IN (2) 2 1/2" SCH 40 PVC
(2) 3-#1/0, 1-#10 IN (2) 2" SCH 40 PVC
3-#12 IN 1/2" SCH 40 PVC
3-#12 IN 1/2" SCH 40 PVC TYP
2-#6, 1-#10 IN 1" SCH 40 PVC
3/4" SCH 40 PVC
3/4" SCH 40 PVC TYP
2-#6, 1-#10 IN 1" SCH 40 PVC TYP
18 LF IRR CONDUIT
22 LF IRR CONDUIT
13 LF IRR CONDUIT
12 LF IRR CONDUIT
7-#2, 1-#10 IN 2" SCH 40 PVC
8-#6, 8-#8, 2-#10 IN 2" SCH 40 PVC
8-#6, 1-#10 IN 1 1/4" SCH 40 PVC
3-#12 IN 1/2" SCH 40 PVC
3-#2, 1-#6 IN 1 1/4" SCH 40 PVC
3-#3/0 IN 2 1/2" SCH 40 PVC
2-#4, 1-#10, 2-#6, 1-#10 IN 1 1/4" SCH 40 PVC
2-#6, 1-#10 IN 1" SCH 40 PVC
3-#2, 1-#10 IN 1 1/4" SCH 40 PVC
3-#2, 1-#10 IN 1 1/4" SCH 40 PVC
3/4" SCH 40 PVC
3/4" SCH 40 PVC
3/4" SCH 40 PVC
IRRIGATION CONTROLERS BY OTHERS
(2) 3-#1/0, 1-#10 IN (2) 2" SCH 40 PVC
2-#6, 1-#10 IN 1" SCH 40 PVC
2-#6, 1-#10 IN 1" SCH 40 PVC
3-#12 IN 1/2" SCH 40 PVC
3-#12 IN 1/2" SCH 40 PVC TYP
12 LF IRR CONDUIT
12 LF IRR CONDUIT
18 LF IRR CONDUIT
22 LF IRR CONDUIT
13 LF IRR CONDUIT
7-#2, 1-#10 IN 2" SCH 40 PVC
2-#6, 1-#10 IN 1" SCH 40 PVC
2-#6, 1-#10 IN 1" SCH 40 PVC
8-#6, 8-#8, 2-#10 IN 2" SCH 40 PVC
8-#6, 1-#10 IN 1 1/4" SCH 40 PVC
3-#12 IN 1/2" SCH 40 PVC
3-#12 IN 1/2" SCH 40 PVC TYP



LEGEND

- DULPEX 20A GFCI RECEPTACLE HUBBELL GFR53625GW OR EQ
- SIMPLEX 30A 120/240V 4 WIRE L14-30 LOCKING RECEPTACLE HUBBELL OR EQ WITH WHILE-IN-USE WATERPROOF COVER
- QUAD (2) CIRCUIT 20A GFCI RECEPTACLE (2) HUBBELL GFR53625GW OR EQ WITH WHILE-IN-USE WATERPROOF COVER
- SAX — LIGHT POLE BASE AND FIXTURE TYPE
- XX-XX — PANEL DESIGNATION & CIRCUIT NUMBER
- POWER CONDUIT
- LIGHTING CONDUIT
- IRR — IRRIGATION SLEEVE - 1-6" & 1-2" SCH 40 PVC UNLESS OTHERWISE NOTED

NORTH

0 15 30 45 60
GRAPHIC SCALE IN FEET
SCALE: 1"=30'

LIGHTING, ELECTRICAL & CONDUIT NOTES

1. REFER TO SHEET C100 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THE PROJECT.
2. REFER TO SHEET C804 FOR GENERAL ELECTRICAL NOTES FOR THE PROJECT.
3. REFER TO SHEET C807 - ED (1)-03 FOR ELECTRIC DETAILS - CONDUIT. RIGID METAL CONDUIT ELBOWS ARE NOT REQUIRED.
4. REFER TO SHEET C808 - ED (2)-03 FOR ELECTRIC DETAILS - CONDUCTORS.
5. REFER TO SHEET C809 - ED (3 -03 FOR ELECTRIC DETAILS - GROUND BOXES. RIGID METAL CONDUIT ELBOWS ARE NOT REQUIRED. CONCRETE APRON IS NOT REQUIRED.
6. REFER TO SHEET C810 - ED (8)-03 FOR ELECTRIC DETAILS - ELECTRICAL SERVICE SUPPORT PEDESTAL SERVICE TYPE PS. PEDESTAL SERVICE SHALL BE ALUMINUM, COLOR GRAY. RIGID METAL ELBOWS ARE NOT REQUIRED.
7. WATER, SANITARY SEWER, AND STORM DRAIN LINES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL LOCATE ALL UTILITY LINES IN THE AREA PRIOR TO DIGGING.
8. ALL CONDUITS AT LIGHT POLE BASES TO BE WITHIN THE DRILLED SHAFT FOUNDATION. NO EXPOSED CONDUIT AT POLE BASES WILL BE ALLOWED.
9. ALL CONDUITS, JBOXES, DEVICE BOXES, ETC. TO BE CONCEALED WITHIN THE STRUCTURES. NO EXPOSED CONDUITS WILL BE ALLOWED UNLESS IN CONCEALED OR OTHER APPROVED AREAS.
10. CONNECTION TO POWER COMPANY CIRCUITS TO BE MADE ONLY BY POWER COMPANY.
11. UNLESS OTHERWISE INDICATED ALL WORK SHALL CONFORM TO THE 2008 NATIONAL ELECTRICAL CODE (NFPA 70) AND THE 2007 NATIONAL ELECTRICAL SAFETY CODE (ANSI C2).
12. ALL EMPTY CONDUIT INSTALLED FOR FUTURE EXTENSION SHALL BE TURNED UP AND EXTENDED UP TO FINISHED GRADE. CAP ENDS OF ALL CONDUITS.
13. IRRIGATION SLEEVES "IRR" SHALL CONSIST OF 1-6" SCH 40 PVC AND 1-2" SCH 40 PVC INSTALLED WITH MINIMUM 24" COVER AND EXTENDING 2' BEYOND THE BACKS OF CURB OR EDGE OF PAVEMENT AND UP TO FINISHED GRADE. CAP ENDS OF ALL CONDUITS.

WARNING

CONTRACTOR IS TO CONTACT TEXAS ONE-CALL SYSTEM (1-800-245-4545) OR OTHER UTILITY LOCATING SERVICES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES. ICON CONSULTING ENGINEERS, INC. IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES IN THE PROJECT AREA NOR FOR DEPICTING THE EXACT LOCATIONS OF UTILITIES ON THESE DRAWINGS.

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE. 1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
11/3/09

PARK LIGHTING

NO.	TYPE			NO.	TYPE		
	FIXTURE	POLE	BASE		FIXTURE	POLE	BASE
EES7	SA1	2	1	EWS10	SA1	2	1
EES8	SA2	1	1				
EES9	SA1	2	1				
EES10	SA1	2	1				
EWS5	SA3	2	1				
EWS6	SA3	2	1				
EWS7	SA2	1	1				
EWS8	SA2	1	1				
EWS9	SA8	1	1				

LIGHT POLE CHART

TYPE	DESCRIPTION
1	24'-7" CONCRETE TAPERED ROUND - DOUBLE SIDE MOUNT
2	24'-7" CONCRETE TAPERED ROUND - TRIPLE SIDE MOUNT
3	24'-7" CONCRETE TAPERED ROUND - QUAD SIDE MOUNT
4	9'-8" ALUMINUM TAPERED ROUND - HINGED BASE
5	7'-8" ALUMINUM TAPERED ROUND - HINGED BASE

LIGHT FIXTURE CHART

TYPE	DISCRIPTION
SA1	THREE 70W MH, 240V DIRECTIONAL FIXTURES - (2)MEDIUM / (1)WIDE DISTRIBUTION
SA2	TWO 70W MH, 240V DIRECTIONAL FIXTURES - (2)WIDE DISTRIBUTION
SA3	THREE 70W MH, 240V DIRECTIONAL FIXTURES - (2)WIDE / (1)MEDIUM DISTRIBUTION
SA4	FOUR 70W MH, 240V DIRECTIONAL FIXTURES - (2)WIDE / (2)MEDIUM DISTRIBUTION
SA5	FOUR 70W MH, 240V DIRECTIONAL FIXTURES - (3)WIDE / (1)MEDIUM DISTRIBUTION
SA6	THREE 70W MH, 240V DIRECTIONAL FIXTURES - (3)WIDE DISTRIBUTION
SA7	TWO 70W MH, 240V DIRECTIONAL FIXTURES -(2)MEDIUM DISTRIBUTION
SA8	TWO 70W MH, 240V DIRECTIONAL FIXTURES - (1)WIDE / (1)MEDIUM DISTRIBUTION
SB	SINGLE 70W MH, 240V FIXTURE ON PEDESTRIAN POLE - BELVEDERE
SC	SINGLE 20W MH, 240V RECESSED STEPLIGHT
SE	SUSPENDED STRAND LIGHTING - 3W, 24V ON 3' CENTERS
SE-1	SUSPENDED STRAND LIGHTING 0.9W, 24V ON 12" CENTERS WITH 3 - OTRAN XFERS
SE-T	SUSPENDED STRAND LIGHTING TRANSFORMER - 150W, 240V / 24V
SK1	TRELLIS COLUMN DOWNLIGHTS - 20W, MR16/40
SK2	TRELLIS COLUMN DOWNLIGHTS - 50W, MR16/40
L4	SINGLE 70W MH, 240V FIXTURE W/INTEGRAL BALLAST ON PEDESTRIAN POLE - ESPLANADE
L5	SINGLE VAPORTITE CFL FIXTURE, 120V, SURFACE MOUNT

NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

PARK LIGHTING & ELECTRICAL PLAN SOUTH

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C803

BID

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

Panel Schedule — Single Phase

Project: Vitruvian Park — Date: 9/25/2009

Panel Name: VPEP - East Pedestal — Volts<L-L>: 240 — Main Bkr: 200 Amps
Mfg: — Volts<L-G>: 120 — Main Lugs: Amps
Model: — Phase: 1 — Panel AIC: 22,000 Amps
Description: — Wires: 3 — Neutral Bar: Y Y/ N
Location: I *"I" =Indoor, "O" =Outdoor — Ground Bar: Y Y/ N
Breaker Mounting: S *"S" =Standard, "B" =Bolt-In

Pos. No.	Bkr No.	Trip Amps	No. Bkr Poles	Serves	Load VA L1	Load VA L2	Pos. No.	Bkr No.	Trip Amps	No. Bkr Poles	Serves
1		65	2	Lighting Contactor	< 4464		2		30	2	Belvedere Simplex Outlet
					2880	> > ---------- >>					
3		65		Lighting Contactor	< < --------- < <	4464	4		30		Belvedere Simplex Outlet
						2880 >					
5		20	1	Pedestal Duplex Outlet	< 1920		6		20	2	Belvedere Quad Outlet 1
					1920	> > ---------- >>					
7		20	1	Irrigation Controls	< < --------- < <	1920	8		20		Belvedere Quad Outlet 1
						1920 >					
9		20	1	Two Duplex Outlets - S	< 1920		10		20	1	Two Duplex Outlets - N
					1920	> > ---------- >>					
11		20	1	Two Duplex Outlets - S	< < --------- < <	1920	12		20	1	Two Duplex Outlets - N
						1920 >					
13				Space	<		14		20	1	Spare
						> > ---------- >>					
15				Space	< < --------- < <		16				Space
						>					
17				Space	<		18				Space
						> > ---------- >>					
				Connected VA per Leg =	15024	15024					
				Total Amps per Leg =	125	125					

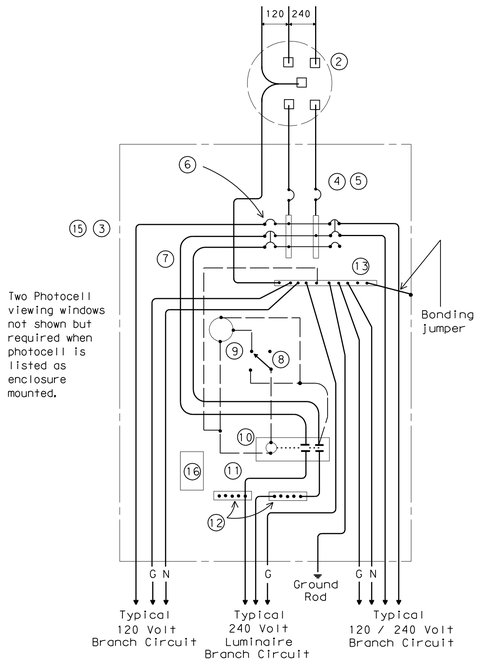
VPEP - LIGHTING DISTRIBUTION TERMINAL BLOCKS 2 POLE, MAIN = 1, BRANCH = 6 SqD LBA 263106 OR EQ
VITRUVIAN PARK WEST NORTH, VITRUVIAN PARK WEST SOUTH, VITRUVIAN PARK EAST NORTH, VITRUVIAN PARK EAST SOUTH, SPACE & SPACE

Panel Schedule — Single Phase

Project: Vitruvian Park — Date: 9/25/2009

Panel Name: VPWP - West Pedestal — Volts<L-L>: 240 — Main Bkr: 200 Amps
Mfg: — Volts<L-G>: 120 — Main Lugs: Amps
Model: — Phase: 1 — Panel AIC: 22,000 Amps
Description: — Wires: 3 — Neutral Bar: Y Y/ N
Location: I *"I" =Indoor, "O" =Outdoor — Ground Bar: Y Y/ N
Breaker Mounting: S *"S" =Standard, "B" =Bolt-In

Pos. No.	Bkr No.	Trip Amps	No. Bkr Poles	Serves	Load VA L1	Load VA L2	Pos. No.	Bkr No.	Trip Amps	No. Bkr Poles	Serves
1		30	2	WO Simplex Outlet 2 - S	< 2880		2		30	2	WO Simplex Outlet 1 - N
					2880	> > ---------- >>					
3		30		WO Simplex Outlet 2 - S	< < --------- < <	2880	4		30		WO Simplex Outlet 1 - N
						2880 >					
5		20	2	WO Quad Outlet 3 - S	< 1920		6		20	2	WO Quad Outlet 1 - N
					1920	> > ---------- >>					
7		20		WO Quad Outlet 3 - S	< < --------- < <	1920	8		20		WO Quad Outlet 1 - N
						1920 >					
9		20	2	WO Quad Outlet 4 - S	< 1920		10		20	2	WO Quad Outlet 2 - N
					1920	> > ---------- >>					
11		20		WO Quad Outlet 4 - S	< < --------- < <	1920	12		20		WO Quad Outlet 2 - N
						1920 >					
13		20	1	Two Duplex Outlets - S	< 1920		14		20	1	Irrigation Controls
					1920	> > ---------- >>					
15		20	1	Two Duplex Outlets - S	< < --------- < <	1920	16		20	1	Spare
						>					
17				Space	<		18				Space
						> > ---------- >>					
19				Space	< < --------- < <		20				Space
						>					
				Connected VA per Leg =	17280	15360					
				Total Amps per Leg =	144	128					



SCHEMATIC TYPE D
120/240 VOLTS - THREE WIRE
TYPE D SERVICE NOTES

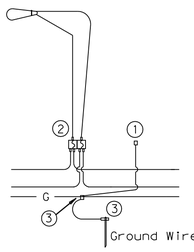
Photocell and lighting contactor shall be located in the same UL type 3R enclosure with load center. There shall be a window on each side of enclosure to allow operation of photocell. Both photocell, contactor and breaker area shall have dead front trim. Type D load center with lighting controls shall have power distribution blocks for a minimum of 12, #2 conductors.

SCHEMATIC LEGEND

1 - Omit
2 - Meter
3 - Service Assembly Enclosure
4 - Main Disconnect Breaker
5 - Lightning Arrestor - Delta LA302 or Eq
6 - Circuit Breakers
7 - Lighting Contactor Feed - 2-#2cu
8 - Control Station ("H-O-A" Switch)
9 - Photo Electric Control (enclosure-mounted)
10 - Lighting Contactor - 100 amp
11 - Power Distribution Block Feed - 2-#2cu
12 - Power Distribution Terminal Blocks - SqD LBA or Eq
13 - Neutral/Ground Bus
14 - Omit
15 - Load Center
16 - Mechanical 24 Hr Time Clock

———— Power Wiring
— — — — Control Wiring
—— N —— Neutral Conductor (for 120 volt loads only)
—— G —— Equipment grounding conductor-always required

ELECTRIC SERVICE PEDESTAL SCHEMATIC



FOR THREE-WIRE CIRCUIT-CENTER GROUNDED
LUMINAIRES SERVED AT 240V FOR 120/240 VOLT SERVICE
SINGLE FIXTURE

NOTES:

1. Use threaded, copper or tin-plated copper, pole bonding connector, sized appropriately for conductors.
2. Double-Pole inline fuse and connector, sized appropriately for conductors. Bussmann TRON HEY with 2A0660 & 2A0661 Insulating Boots and LIMITRON KTK-R fast acting fuses or equal -
3. Split Bolt or other connector.

ELECTRICAL CONNECTION DETAIL

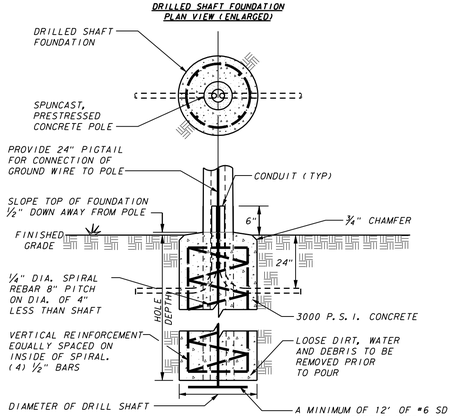
GENERAL ELECTRICAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2005 NATIONAL ELECTRICAL CODE, N.F.P.A. 70, 2006 IECC, 2006 IBC AND ALL LOCAL AND STATE CODES AND REGULATIONS. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY THE BUILDING AND SAFETY CODES AND ORDINANCES, AND THE RULES AND REGULATIONS OF ANY LEGAL BODY HAVING JURISDICTION.
2. ALL MATERIAL FURNISHED AND ALL LABOR PERFROMED UNDER THESE CONTRACTS SHALL BE IN STRICT ACCORDANCE WITH THE RULES, REGULATIONS, AND CODES OF NATIONAL, STATE, MUNICIPAL OR ANY OTHER AUTHORITIES THAT MAY HAVE LAWFUL JURISDICTION PERTAINING TO THE WORK SPECIFIED. EACH CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS, LICENSES, AND CERTIFICATES OF APPROVAL AND PAY THEIR FEES TO CARRY OUT HIS WORK.
3. CONTRACTOR IS CAUTIONED OF HIS SOLE RESPONSIBILITY TO ASCERTAIN THE LOCATION OF ANY AND ALL BURIED UTILITIES, AND ONLY BY EXERCISE OF DUE CAUTION CAN DAMAGE TO SAID UTILITIES AND ASSOCIATED PROPERTIES, ALONG WITH PERSONNEL INJURY OF LOSS OR LIFE, BE AVOIDED.
4. ALL CHANGES OR VARIATIONS NECESSITATED BY UNFORESEEN CONDITIONS SHALL BE VERIFIED WITH ENGINEER BEFORE SUCH CHANGES OR VARIATIONS ARE UNDERTAKEN.
5. EACH CONTRACTOR SHALL MAKE HIMSELF & HIS TRADESMEN FAMILIAR WITH THE COMPLETE SET OF DRAWINGS AND SHALL BE PARTICULARLY AWARE OF ANY AND ALL CONFLICTS REGARDING HIS TRADE AND OTHER TRADES OCCUPYING THE SAME AREA, I.E. PIPES, DUCTS, CONDUIT, ETC. WHEN INSTALLING ITEMS OF HIS TRADE EACH CONTRACTOR SHALL CONSULT WITH OTHER TRADES OCCUPYING THE SAME AREA AND THE ENGINEER TO DETERMINE THE BEST SOLUTION TO THE CONFLICT. ALL DECISIONS BY THE ENGINEER SHALL BE FINAL AND BINDING TO ALL PARTIES CONCERNED.
6. THE LOCATION OF ALL PIPES, OUTLETS, FIXTURES, ETC, SHOWN ON PLANS IS THE DESIGN INTENT. ANY REVISION OR ADJUSTMENT SHALL BE COORDINATED AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. THE ENGINEER RESERVES THE RIGHT TO MAKE REASONABLE CHANGES TO THE INDICATED LOCATIONS BEFORE WORK IS ROUGHED-IN WITHOUT ADDITIONAL CHARGE TO THE OWNER.
7. FINAL CONNECTIONS TO EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH ACTUAL EQUIPMENT SUPPLIED.
8. VERIFY EXACT LOCATIONS OF EXISITING AND NEW UNDERGROUND UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICES (CONDUIT AND/OR WIRE), PULLBOXES, TRANSFORMER PADS, SAWCUTTING AND PATCHING. CONCRETE/PAVING, ETC. AS REQUIRED. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING OR FACTORY WIRING IN EQUIPMENT.
10. ALL COST INCURRED BY THE ACCEPTANCE OF SUBSTITUTIONS SHALL BE BORNE BY THE CONTRACTOR. PROOF FOR THE EQUALITY OF SUBSTITUTIONS SHALL BE BY THE CONTRACTOR.
11. ALL ELECTRICAL ITEMS SHALL BE U.L. LABELED AND LISTED FOR THEIR SPECIFIC USE.
12. THE ELECTRICAL CONTRACTOR SHALL PAY ALL COSTS REQUIRED BY THE LOCAL UTILITY COMPANY PROVIDING SERVICES INDICATED. ELECTRICAL CONTRACTOR SHALL COORDINATE METERING, TRANSFORMER PAD, CONNECTION POINTS AND GROUNDING WITH UTILITY COMPANY.
13. ALL SERVICE ENTRANCE EQUIPMENT, INCLUDING BUT NOT LIMITED TO ANY MAIN DISCONNECT SWITCH, PANEL, OR SWITCHBOARD, SHALL BE LISTED AND LABELED AS "SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT."
14. THE ELECTRICAL SYSTEMS SHALL BE SOLIDLY GROUNDED. ALL NON-CURRENT CARRYING METAL PARTS OF THE ELECTRICAL SYSTEM, I.E., RACEWAYS, EQUIPMENT ENCLOSURES, FRAMES, JUNCTION AND OUTLET BOXES AND OTHER CONDUCTIVE ITEMS IN CLOSE PROXIMITY WITH ELECTRICAL CIRCUITS, SHALL BE GROUNDED TO PROVIDE A LOW IMPEDANCE PATH FOR POTENTIAL GROUND FAULTS.
15. EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED IN ALL RACEWAYS AND CABLES.
16. THE NEUTRAL AND GROUND BUS SHALL BE BONDED TOGETHER AT ALL SERVICE EQUIPEMENT.
17. CONDUIT SHALL BE RUN PARALLEL OR AT RIGHT ANGLES TO WALLS, CEILINGS, AND STRUCTURAL MEMBERS.
18. ALL RACEWAYS SHALL BE INSTALLED CONCEALED EXCEPT IN UNFINISHED SPACES WHERE INDICATED ON DRAWINGS.
19. ALL EMPTY CONDUITS SHALL BE EQUIPPED WITH A PULL WIRE-200 LB TEST NYLON.
20. OPEN TRENCHES SHALL BE PROTECTED AND SUPERVISED AT ALL TIMES.
21. SELECT GRANULAR STRUCTURAL BACKFILL IS REQUIRED AROUND, AND 12" ABOVE, ALL CONDUIT.
22. ELECTRICAL "WARNING TAPE" SHALL BE INSTALLED IN ALL TRENCHES 12" ABOVE HIGHEST CONDUIT.
23. FASTENERS AND SUPPORTS SHALL BE AS MANUFACTURED BY GEDNEY, EFCOR OR EQUAL. SUPPORTING DEVICES SHALL BE THOSE AS MANUFACTURED FOR A SPECIFIC PURPOSE. NAILS, WIRE OR PIPE STRAP SHALL NOT BE USED.
24. ALL CIRCUIT CONDUCTORS SHALL BE COPPER, 90°C, XHHW-2 INSULATION.
25. WIRE NO. 8 AWG AND LARGER SHALL BE STRANDED, NO. 10 AND SMALLER SHALL BE SOLID. MINIMUM CONDUCTOR SIZE SHALL BE NO. 12.
26. ALL BRANCH CIRCUIT AND FEEDER CONDUCTORS, NO. 8 AWG AND SMALLER, SHALL BE COLOR CODED AS FOLLOWS (WHERE APPROVED BY THE AUTHORITY HAVING JURISDICTION):

    120/208 VOLT SYSTEM

    PHASE A - BLACK
    PHASE B – RED
    PHASE C - BLUE
    NEUTRAL – WHITE
    GROUND - GREEN
27. CONTRACTOR SHALL VERIFY AVAILABLE FAULT CURRENT, TRANSFORMER SIZE, AND SERVICE CONDUCTOR FROM ELECTRIC POWER UTILITY BEFORE ORDERING BREAKERS.
28. ELECTRICAL CONTRACTOR SHALL VERIFY THE MOTOR UNIT LOADS BEFORE ORDERING BREAKERS.
29. PANELBOARDS SHALL HAVE BOLT-IN CIRCUIT BREAKERS AND ALUMINUM BUSSING.
30. OVERCURRENT PROTECTIVE DEVICES SHALL BE AUTOMATIC TRIP THERMAL MAGNETIC TYPE WITH QUICK-MAKE, QUICK-BREAK FOR BOTH MANUAL AND AUTOMATIC OPERATIONS. ALL MULTIPOLE BREAKERS SHALL BE COMMON TRIP; HANDLE TIES WILL NOT BE ACCEPTED.
31. SWITCHBOARDS, DISTRUBUTION BOARDS, PANELBOARDS, DISCONNECT SWITCHES AND MOTOR CONTROL CENTERS SHALL BE MANUFACTURED BY SQUARE 'D', GENERAL ELECTRIC, SIEMENS, OR EATON/CUTLER HAMMER.
32. TYPEWRITTEN PANELBOARD SCHEDULES AND DESIGNATION PLATES SHALL BE PROVIDED BY THE CONTRACTOR FOR ALL PANELBOARDS. PANELBOARD DESIGNATIONS SHALL BE PHENOLIC-ENGRAVED.
33. WIRE TERMINATION PROVISIONS FOR PANELBOARDS, CIRCUIT BREAKERS, SAFETY SWITCHES AND ALL OTHER ELECTRICAL APPARATUS SHALL BE LISTED AS SUITABLE FOR 75°C MINIMUM.
34. SAFETY-TYPE DISCONNECT SWITCHES SHALL BE HEAVY DUTY WITH QUICK-MAKE, QUICK-BREAK MECHANISM WITH INTERLOCKING COVER WHICH NORMALLY CANNOT BE OPENED WHEN THE SWITCH IS IN THE 'ON' POSITION. SWITCH SHALL HAVE PROVISIONS FOR PAD-LOCKING IN THE OPEN OR CLOSED POSITION. FUSIBLE DISCONNECT SWITCHES SHALL HAVE REJECTION-TYPE FUSEHOLDERS. FUSES SHALL BE NON-RENEWABLE, DUAL ELEMENT TIME-DELAY 'RK1' OR 'RK5', OR AS SPECIFIED OTHERWISE. ACCEPTABLE MANUFACTURES: SQUARE 'D', GENERAL ELECTRIC, SIEMENS, OR EATON/CUTLER HAMMER.
35. UNLESS INDICATED ON DRAWINGS, BALLASTS PROVIDED WITH FIXTURES SHALL BE ETL-CBM APPROVED, HIGH POWER FACTOR, WITH U.L. LABEL. ALL BALLASTS FOR RAPID START LAMPS SHALL BE PREMIUM CLASS P.
36. ALL FIXTURES TO BE FURNISHED COMPLETE WITH LAMPS.
37. UNLESS OTHERWISE NOTED, DUPLEX RECEPTACLES SHALL BE RATED 20 AMP, HUBBELL CR5362 OR APPROVED EQUAL.
38. UNLESS OTHERWISE NOTED, TOGGLE SWITCHES SHALL BE 20 AMP, HUBBELL CS1221 OR APPROVED EQUAL.
39. UNLESS OTHERWISE NOTED, DEVICE PLATES SHALL BE NYLON.
40. PANEL, WIRING DEVICES, SWITCHES AND DISCONNECTS, LIGHTING FIXTURES AND FUSE SUBMITTALS SHALL BE REQUIRED, AND ARE TO INCLUDE MANUFACTURER'S DATA, TEST REPORTS, PERFORMANCE DATA AND CERTIFICATIONS.

DRILLED SHAFT FOUNDATION PLAN VIEW (ENLARGED)



TYPE NO.	SHAFT DEPTH	SHAFT DIA.
1	59"	24"
2	59"	30"

DRILLED SHAFT FOUNDATION EMBEDDED POLE

STATE OF TEXAS — BRUCE F. DUNNE — 62654 — LICENSED PROFESSIONAL ENGINEER — 11/3/09

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

PARK LIGHTING & ELECTRICAL DETAILS

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C804

BID

PARK AND STREETSCAPE IMPROVEMENTS – VITRUVIAN PARK

VITRUVIAN WAY

12"W

CURB

1 1/2" W

SL

GAS

SD

SS

8"SS

INTERACTIVE FOUNTAIN VAULT

INTERACTIVE FOUNTAIN TREATMENT

W

GA 30,32,34

INTERACTIVE FOUNTAIN

AMPITHEATER PARK LIGHTING

GA 1,3

GA 6,8

CABLE TROUGH TYPICAL

200A COMPANY SWITCH (LIGHTING)

100A COMPANY SWITCH (SOUND)

PANEL GAL GA LIGHTING CONTROLS

PANEL GA TO GAL 4-#6 IN 1 1/4" CONDUIT

PANEL GA

GA 29,31

L5

SK1

SK2

S

GA 22,24

GA 13,15

GA 25,27

GA 17,19

GA 21,23

GA 14,16

GA 18,20

GA 26,28

UGE

GROTTO POOL

GROTTO WATERFALL

DOOR SWITCH TYPICAL

6' x 5' SD

10"W

LIGHTING

POWER

GROTTO PLAN

SCALE: 1/8" = 1'-0'

LEGEND

- DULPEX 20A GFCI RECEPTACLE HUBBELL GFR53625GW OR EQ
- S SIMPLEX 30A 120/240V 4 WIRE L14-30 LOCKING RECEPTACLE HUBBELL OR EQ WITH WHILE-IN-USE WATERPROOF COVER
- QUAD (2) CIRCUIT 20A GFCI RECEPTACLE (2) HUBBELL GFR53625GW OR EQ WITH WHILE-IN-USE WATERPROOF COVER
- SAX LIGHT POLE BASE AND FIXTURE TYPE
- XX-XX PANEL DESIGNATION & CIRCUIT NUMBER
- POWER CONDUIT
- LIGHTING CONDUIT
- IRR IRRIGATION SLEEVE – 1-6" & 1-2" SCH 40 PVC UNLESS OTHERWISE NOTED

STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED PROFESSIONAL ENGINEER
11/3/09

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

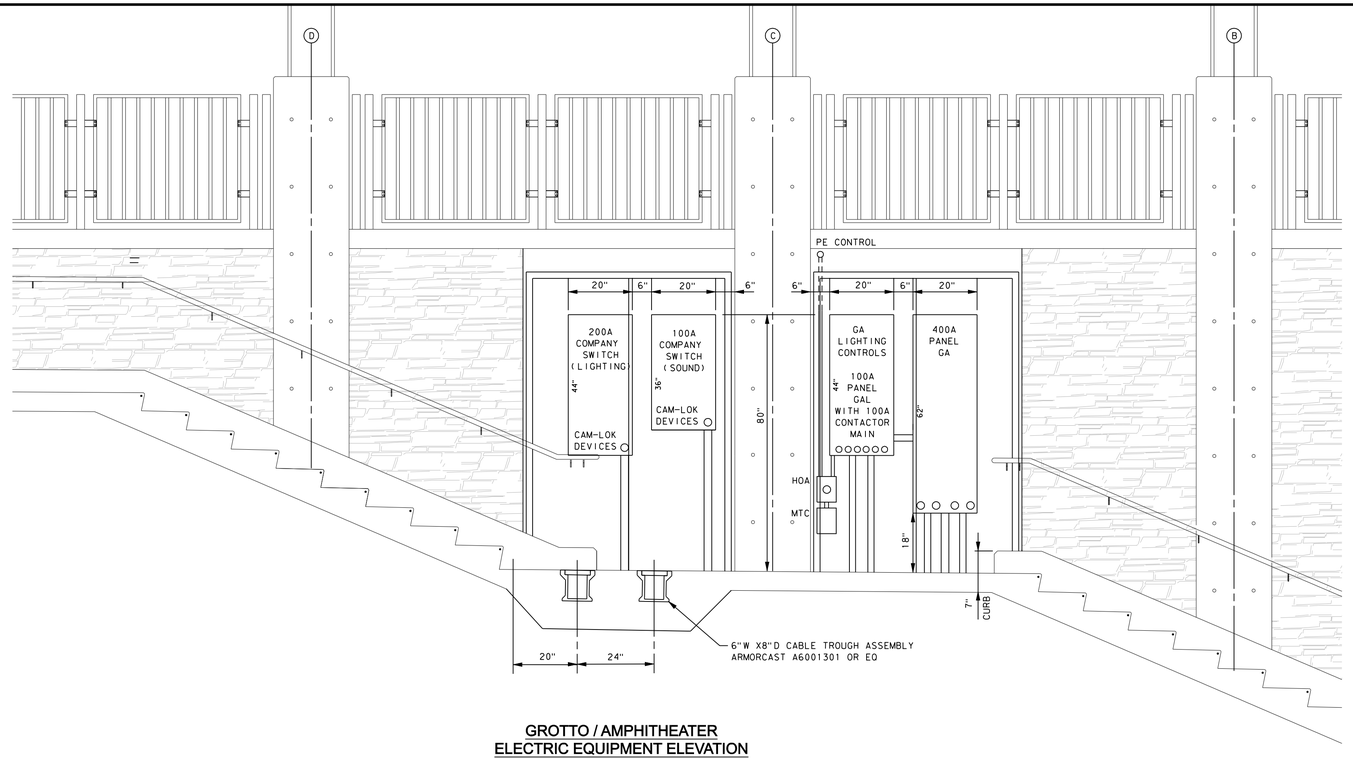
PARK LIGHTING & ELECTRICAL PLAN GROTTO

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW# 2009-04	C805

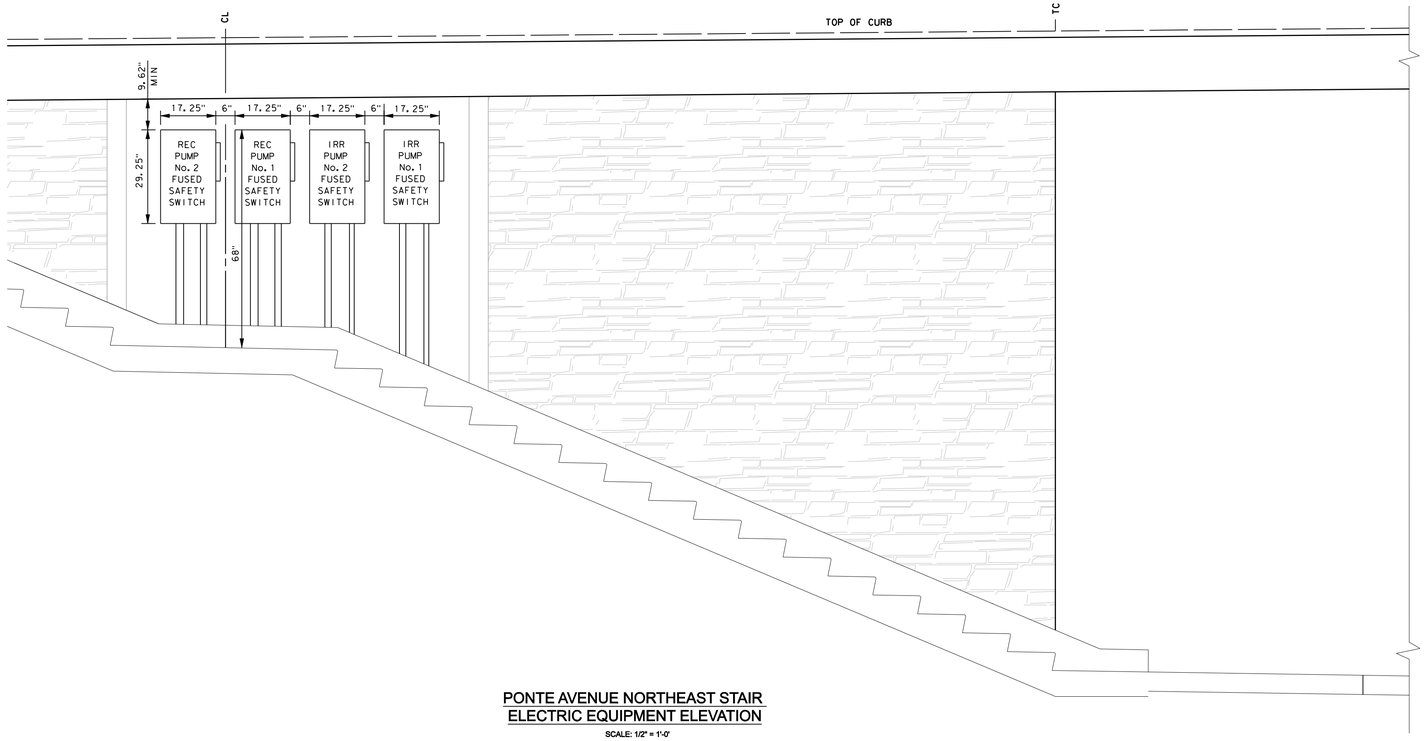
BID

PARK AND STREETSCAPE IMPROVEMENTS – VITRUVIAN PARK



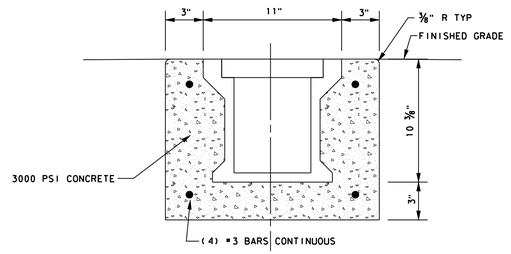
GROTTO / AMPHITHEATER
ELECTRIC EQUIPMENT ELEVATION

SCALE: 1/2" = 1'-0"



PONTE AVENUE NORTHEAST STAIR
ELECTRIC EQUIPMENT ELEVATION

SCALE: 1/2" = 1'-0"



TYPICAL SECTION
CABLE TROUGH ASSEMBLY
ENCASED IN CONCRETE

SCALE: 2" = 1'-0"

Panel Schedule — Single Phase

Project: Vitruvian Park — Date: 9/28/2009

Panel Name: GAL - G/ A Lighting — Volts<L-L>: 208 — Main Bkr: Amps
Mfg: — Volts<L-G>: 120 — Main Lugs: GAL Contactor - 100 Amps
Model: — Phase: 1 — Panel AIC: 22,000 Amps
Description: — Wires: 3 — Neutral Bar: Y Y/ N
Location: I ("I" =Indoor, "O" =Outdoor) — Ground Bar: Y Y/ N
Breaker Mounting: S ("S" =Standard, "B" =Bolt-in)

Pos. No.	Bkr No.	Trip Amps	No. Bkr Poles	Serves	Load VA L1	Load VA L2	Pos. No.	Bkr No.	Trip Amps	No. Bkr Poles	Serves
1		15	2	Ampith Lighting (Back)	435		2		15	1	Grotto Lighting (N-O)
					448						
3		15		Ampith Lighting (Back)		435	4		15	1	Grotto Lighting (N-C)
						322					
5		15	2	Ampith Lighting (Front)	316		6		15	1	Grotto Lighting (N-I)
					392						
7		15		Ampith Lighting (Front)		316	8		15	1	Grotto Lighting (S-O)
						448					
9		15	2	Ampith Lighting (Lake)	237		10		15	1	Grotto Lighting (S-C)
					322						
11		15		Ampith Lighting (Lake)		237	12		15	1	Grotto Lighting (S-I)
						392					
13		15	1	Grotto Lighting (WF-S)	2000		14		15	1	Grotto Lighting (Pool-N)
					500						
15		15	1	Grotto Lighting (WF-C)		2000	16		15	1	Grotto Lighting (Pool-C)
						500					
17		15	1	Grotto Lighting (WF-N)		1000	18		15	1	Grotto Lighting (Pool-S)
						500					
				Connected VA per Leg =	4650	6150					
				Total Amps per Leg =	39	51					

ALL BREAKERS SHALL BE SWITCH RATED.
NO TANDEM BREAKERS ALLOWED.
ENCLOSURE MOUNTED PHOTO ELECTRIC CONTROL, MECHANICAL 24 HR TIME CLOCK AND HOA SWITCH REQUIRED FOR CONTACTOR OPERATION.

Panel Schedule — Three Phase

Project: Vitruvian Park — Date: 9/28/2009

Panel Name: GA - Grotto / Amphitheater — Volts<L-L>: 208 — Main Bkr: 400 Amps
Mfg: — Volts<L-G>: 120 — Main Lugs: Amps
Model: — Phase: 3 — Panel AIC: 22,000 Amps
Description: — Wires: 4 — Neutral Bar: Y Y/ N
Location: I ("I" =Indoor, "O" =Outdoor) — Ground Bar: Y Y/ N
Breaker Mounting: S ("S" =Standard, "B" =Bolt-in)

Pos. No.	Bkr No.	Trip Amps	No. Bkr Poles	Serves	Load VA Phase A	Load VA Phase B	Load VA Phase C	Pos. No.	Bkr No.	Trip Amps	No. Bkr Poles	Serves
1		30	2	Ampith Simplex Outlet N	2500			2		30	2	Ampith Simplex Outlet O
					2500							
3		30		Ampith Simplex Outlet N		2500		4		30		Ampith Simplex Outlet O
						2500						
5		20	2	Ampith Quad Outlet 2 C			1920	6		20	2	Ampith Quad Outlet 1 N
							1920					
7		20		Ampith Quad Outlet 2 C	1920			8		20		Ampith Quad Outlet 1 N
					1920							
9		20	2	Ampith Quad Outlet 3 S		1920		10		30	2	Ampith Simplex Outlet S
						2500						
11		20		Ampith Quad Outlet 3 S			1920	12		30		Ampith Simplex Outlet S
							2500					
13		20	2	Grotto Quad Outlet 1 S	1920			14		30	2	Grotto Simplex Outlet 1 N
					2500							
15		20		Grotto Quad Outlet 1 S		1920		16		30		Grotto Simplex Outlet 1 N
						2500						
17		20	2	Grotto Quad Outlet 2 S			1920	18		20	2	Grotto Quad Outlet 1 N
							1920					
19		20		Grotto Quad Outlet 2 S	1920			20		20		Grotto Quad Outlet 1 N
					1920							
21		20	2	Grotto Quad Outlet 2 N		1920		22		30	2	Grotto Simplex Outlet 1 S
						2500						
23		20		Grotto Quad Outlet 2 N			1920	24		30		Grotto Simplex Outlet 1 S
							2500					
25		30	2	Grotto Simplex Outlet 2 S	2500			26		30	2	Grotto Simplex Outlet 2 N
					2500							
27		30		Grotto Simplex Outlet 2 S		2500		28		30		Grotto Simplex Outlet 2 N
						2500						
29		65	2	Panel GAL Contactor			6150	30		50	3	Interactive Fountain
							6000					
31		65		Panel GAL Contactor	4650			32		50		Interactive Fountain
					6000							
33				Space				34		50		Interactive Fountain
						6000						
35				Space				36				
37				Space				38				
39				Space				40				
41								42				
				Connected VA per Phase =	32750	29260	28670					
				Total Amps per Phase =	273	244	239					

BRUCE F. DUNNE 62654 LICENSED PROFESSIONAL ENGINEER — STATE OF TEXAS — 11/3/09

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

PARK LIGHTING & ELECTRICAL DETAILS

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
250 W. Southlake Blvd., Suite 117
Southlake, Tx 76092 (817) 552-6210

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	ICE	ICE	NOV. 3, 2009	PW # 2009-04	C806

BID

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

I. GENERAL REQUIREMENTS FOR ALL ELECTRICAL WORK

The location of all conductors, conduits, junction boxes, ground boxes, and electrical services is diagrammatic only and may be shifted by the Engineer to accommodate local conditions.

Materials shall be new and unused. Materials and installation shall comply with the applicable provisions of the National Electrical Code (NEC), National Electrical Manufacturers Association (NEMA) standards, and shall be Underwriters Laboratories (UL) Listed unless otherwise shown on the plans or specifications or approved by the Engineer in writing. Faulty fabrication or poor workmanship in any material, equipment, or installation shall be justification for rejection. When reference is made to UL, it can be considered to mean a Nationally Recognized Independent Testing Lab (NRTL). Comparable standards of Canadian Standard Association, Electrical Testing Laboratories or Factory Mutual can be equal to the referenced UL standard. Where reference is made to NEMA listed devices, IEC listed devices shall not be considered to be an acceptable equal to a NEMA listed device. Acceptable devices may have both a NEMA and IEC listing.

With the exception of high strength bolts, miscellaneous nuts, bolts and hardware may be stainless steel when plans specify galvanized, provided that bolts are 1/2 inch or less in diameter. The Contractor shall provide the following electrical test instruments as required by the Engineer to confirm compliance with the contract and the NEC. Those test instruments are voltmeter, amp probe, megger (1000 volt DC) and torque wrenches. All meters shall have been properly calibrated within one year. Calibration certification shall be provided to the Engineer upon request. Calibration certification tag shall also be applied to the meter. The Contractor shall operate meters during inspection as requested by the Engineer. Grounding shall be as shown on the plans and in accordance with the NEC. Metallic conduit, light poles, luminaires on bridge structures, and all metal enclosures shall be bonded to the system-grounding conductor. The ground rod in each ground box or junction box at the bridge ends, and in each ground box installed for underpass lighting will also be bonded to the system grounding conductor. The grounding conductor shall be bare or, if insulated, shall be green. Ground rods, connectors, and bonding jumpers will not be paid for separately, but will be subsidiary to the various bid items.

SUBMITTALS:

The contractor shall submit for approval six (6) copies of catalog cut sheets for each of the following three (3) categories.
Category 1. Electrical services including photocell.
Catagory 2. Breakaway disconnects, heat shrink tubing, heat shrink filler tape, GelCaps and ground boxes which will include loading capacity certification.
Category 3. Highmast assembly kits, when applicable. See Item 614 "Highmast Illumination Assemblies". Submittals shall be legible and shall be marked to indicate which product on a cut sheet is to be supplied. Where manufacturers provide warranties and guarantees as a customary trade practice, the Contractor shall furnish to the State such warranties and guarantees.
Any deviation from plans or specifications, including deviations due to plan error shauld be prominently displayed on the submittal. Any changes not prominently noted in submittal and incorporated into the work without proper authorization will constitute grounds for rejection of that portion of the work.

II. CONDUIT

A. MATERIALS

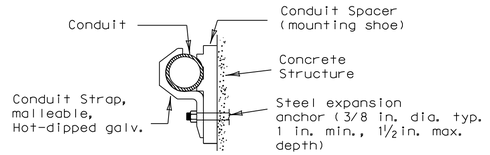
1. Conduit and fittings shall be UL Listed for the intended use shown on plan sheets.
2. Conduit shall be the type shown by descriptive code or shown elsewhere on the plans. Substitution of the various types of conduits will not be permitted. All flexible conduit in rigid metallic conduit (RMC) systems shall be Liquidtight Flexible Metal (LFMC) conduit. All flexible conduit in PVC systems shall be Liquidtight Flexible Non-metallic conduit (LFNC).
3. All exposed conduits shall be RMC, unless otherwise specifically shown on the plans. All metal conduit shall be properly grounded.
4. Couplings, connectors, conduit bodies, grounding bushings, and offset nipples for RMC shall be electro-zinc plated steel or hot dipped galvanized malleable iron, threaded or threadless compression type, rain-tight and shall be UL listed for the intended use.
5. Expansion joints for metal conduit shall be provided with an internal or external bonding jumper and shall be UL listed.
6. Unless otherwise shown on the plans, junction box minimum sizes shall be in accordance with the following table which applies to the greatest number of conductors entering the box through one conduit with no more than four conduits per box. When a mixture of conductor sizes are present, the conductors shall be counted as if all are of the larger size. Situations not applicable to the table shall be sized in accordance with NEC 370-28.

AWG	3 CONDUCTORS	5 CONDUCTORS	7 CONDUCTORS
#1	10" x 10" x 4"	12" x 12" x 4"	16" x 16" x 4"
#2	8" x 8" x 4"	10" x 10" x 4"	12" x 12" x 4"
#4	8" x 8" x 4"	10" x 10" x 4"	10" x 10" x 4"
#6	8" x 8" x 4"	8" x 8" x 4"	10" x 10" x 4"
#8	8" x 8" x 4"	8" x 8" x 4"	8" x 8" x 4"

7. RMC system junction boxes equal to or smaller, in any dimension, than 12 x 12 x 6 (HxWxD), surface mounted and containing conductors #8 or larger, shall be hot dipped galvanized cast iron with minimum wall thickness of 3/16 inch, shall have external mounting lugs, and shall be UL listed Crouse-Hinds Type WAB, OZ/Gedney Type YS or approved equal. Unless otherwise shown elsewhere on the plans, RMC system junction boxes larger than the aforementioned boxes but equal to or smaller, in any dimension, than 18 x 18 x 6 (HxWxD) shall be 14-ga. stainless steel; RMC system junction boxes larger than 18 x 18 x 6 (HxWxD) shall be 12-ga. stainless steel. All metal junction boxes shall be equipped with a threaded hole or lug for grounding. Stainless steel boxes 12 x 12 x 6 and larger need not be UL Listed but shall meet the other requirements of the NEC and shall have ribs, stiffeners, or thicker metal and shall have external mounting feet. Junction boxes with an internal volume of more than 100 cu. in. may be supported by connection of two or more rigid metal conduits, where specifically shown on the plans or where approved by the Engineer.
8. Junction boxes containing only #10 or #12 AWG conductors shall be Crouse Hinds Type GRFX, Appleton Type JBOX, two-gang FD, or similar approved cast iron box. Boxes shall be sized according to NEC Table 370-16(a).
9. IMC and EMT conduit shall not be used unless specifically required by the plan layout sheets. Junction boxes in EMT conduit systems shall be made from galvanized sheeting and shall be UL listed and approved for outdoor use, unless otherwise noted on the plans. Sheet metal junction boxes shall be sized in accordance with the NEC. Junction boxes for IMC conduit systems shall meet the requirements of boxes used with RMC systems.
10. Junction boxes in PVC conduit systems shall be PVC, intended for outdoor use, unless otherwise noted on the plans.
11. Elbows in PVC conduit systems one inch and larger shall be rigid metal, with the exception of traffic signal systems which may have PVC elbows instead of rigid. If any part of the rigid metal elbow is buried less than 18 inches underground the elbow and rigid metal extension shall be grounded. Grounding shall be accomplished by means of a grounding bushing installed on the extension. Unless specifically shown on the plans, rigid metal elbows containing, or entering ground boxes containing only communications conductors, loop detectors, or other low voltage power limited circuits need not be grounded unless a ground wire is present in the conduit or ground box. The rigid metal elbows located in concrete foundations may be extended with PVC conduit and need not be grounded provided that the end of the elbow nearest the end of the conduit run exiting the foundation is at least 2 inches below the concrete. RMC elbows will not be eliminated. RMC elbows will not be paid for directly, but will be subsidiary to various bid items.
12. High-Density Polyethylene (HDPE) conduit shall meet the requirements of Item 622, Duct Cable, except that the HDPE conduit, when bid under Item 618, Conduit, shall not contain factory installed conductors. Fittings for HDPE conduit shall be UL listed as an electrical conduit connector or shall be thermally fused using an electrically heated wound wire resistance welding method. HDPE conduit may be substituted for bored schedule 40 or schedule 80 PVC conduit. When such substitution is made, bored HDPE shall be schedule 40 of the size PVC being replaced. The HDPE conduit shall transition to PVC (or RMC elbow when required) at the bore pit. Size and schedule shall be as shown on the plans. Substituted conduit may not be extended to ground boxes or foundations; RMC elbows shall be installed at ground boxes and foundations. RMC elbows will not be eliminated.
13. All conduit support hardware including straps, nuts, bolts, screws, retaining anchors and washers shall be hot dipped galvanized or stainless steel. Strut type conduit straps shall be stainless steel or hot dipped galvanized. Strut type straps need not be made of malleable type material. Stamped-cadmium plated straps will not be allowed. Straps having only one mounting hole shall not be allowed for use on conduits 2 inches and larger with the exception of electrical service poles where stainless steel standoff straps will be allowed. Two piece conduit straps designed to be used with a mounting shoe shall be installed only with the correctly sized shoe.

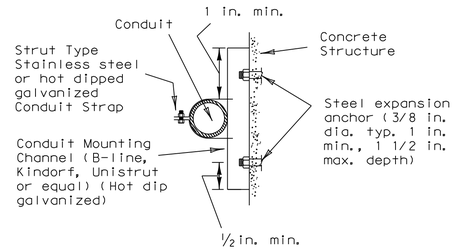
B. CONSTRUCTION METHODS

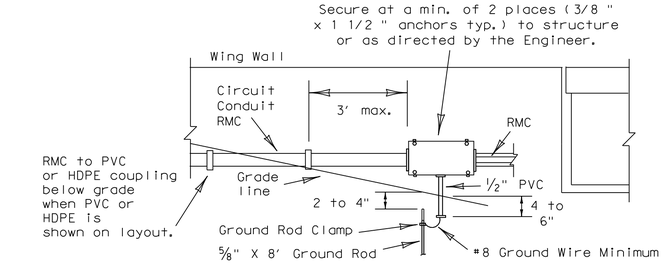
1. Conduit in structures shall have expansion fittings at structure expansion joints. All straight runs of RMC conduit exposed on structures such as bridges shall have expansion joints installed at maximum intervals of 150 feet. Expansion joints shall be installed so they allow for movement of the conduit. Installation of the joint in such a manner that will not allow for movement shall be repaired at no expense to the state. The method of determining the final setting length of the expansion joint shall be provided to the Engineer upon request.
2. Conduit supports shall be spaced at maximum intervals of 5 feet. Conduit spacers shall be used with metal conduit placed on surfaces of concrete structures (See conduit mounting options).
3. Conduit supports shall not be attached directly to prestressed concrete beams except as shown specifically in the plans and approved by the Engineer.
4. Unless otherwise shown on the plans, conduit placed beneath existing roadways, driveways, or sidewalks, or after the base or surfacing operation has begun, shall be accomplished by jacking or boring. The Contractor shall back fill and compact the bore pits to the bottom of the conduit prior to installing connecting conduit or duct cable to prevent bending of the connection.
5. Conduit trenched in the subgrade of new roadways shall be backfilled with excavated material, unless otherwise noted on the plans. Conduit trenched in the sub-base of new roadways shall be backfilled with cement-stabilized base.
6. Open ends of all conduit and raceways shall be fitted with temporary caps or plugs to prevent entry of dirt, debris and rodents during construction. The temporary cap may be constructed of duct tape, but in all cases shall be tightly fixed to the conduit and shall be durable. The contractor shall clean out the conduit and prove it clear in accordance with Standard Specifications Item 618.3 prior to installing any conductors.
7. Conduit entry into the top of enclosures such as safety switches, meter cans, service enclosures, auxiliary enclosures and junction boxes shall be made weatherproof using conduit sealing hubs, or threaded bosses.
8. A bonding jumper shall be installed from each grounding bushing to the nearest grounding rod, grounding lug, and/or equipment grounding conductor. All jumpers shall be the same size as equipment grounding conductor. Conduit used as casing under roadways for duct cable need not be grounded if duct extends full length through the casing. At electrical services, grounding electrode conductor shall be a solid Copper #6 AWG.
9. Metal junction boxes shall be bonded to the grounding conductor in accordance with the NEC.
10. Conduits entering ground boxes shall be placed so that the conduit ends shall be not less than 3 inches nor more than 6 inches from bottom of box (See ground box detail on sheet ED(3).
11. Conduit ends shall be sealed with heat shrink boots with waterproof sealant, urethane foam, or by other methods approved by the Engineer. Sealing shall be done after completion of any required pull tests. Duct tape shall not be used as a permanent conduit sealant. Silicone caulking shall not be used as a sealant.
12. All strut mounting material and hardware shall be hot-dip galvanized or shall be stainless steel. The cut ends of strut and non-galvanized rigid metal conduit threads shall be coated with a zinc rich paint (90% or more zinc content). Zinc rich paint may only be used to touch up galvanized material as allowed under item 445.6 galvanizing. The painting of non-galvanized material with a zinc rich paint shall not be considered as an approved alternative for galvanized materials.
13. All PVC conduit terminations shall be fitted with bushings or bell ends. All metal conduit terminations shall be fitted with a grounding type bushing.



CONDUIT MOUNTING OPTIONS

(Attachment to concrete surfaces)
(See para. II.B.2)

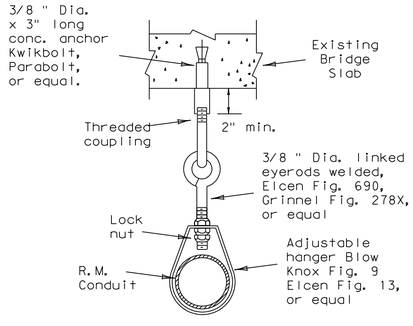




TYPICAL CONDUIT ENTRY TO BRIDGE STRUCTURE DETAIL

NOTES

1.) Ground rod clamp to be UL listed for direct burial.
2.) For conduit placed in structure, use flush-mounted box.
3.) Bond junction box and metal conduits to equipment grounding conductor and grounding electrode conductor using listed connector.
4.) Seal all conduits entering the junction box from underground.
5.) Install bell end or bushing on 1/2 " PVC conduit both ends.
6.) Ground rod to be driven within 8 inches of 1/2 inch PVC conduit end.



CONDUIT HANGER DETAIL

(Attachment to horizontal surfaces)
Hangers need not be UL listed for electrical use
ie: plumber pipe hangers are acceptable

5/03 Revision

1 Revised notes.

STANDARD PLANS
TEXAS DEPARTMENT OF TRANSPORTATION
Traffic Operations Division

ELECTRICAL DETAILS-CONDUIT

ED(1)-03

© TxDOT January 1992

DN: KB	CK: JW	DW: DN	CK: GC	NEG NO.:

REVISIONS	STATE DISTRICT	FEDERAL REGION	FEDERAL AID PROJECT	SHEET
4-98		6		C807
12-00	COUNTY		CONTROL / SECTION / JOB	HIGHWAY
3-03				
5-03				

I. ELECTRICAL CONDUCTORS

A. MATERIALS

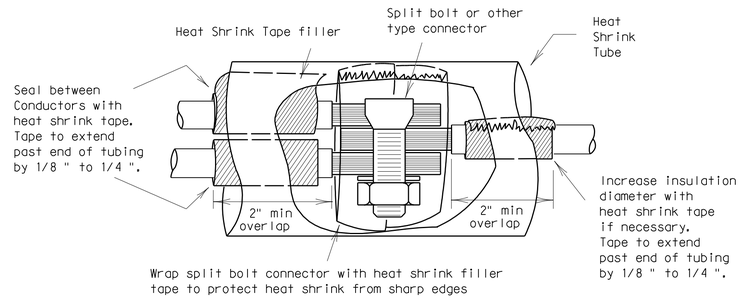
1. Insulated conductors shall be NEC Type XHHW. Insulated conductors shall be color coded in accordance with the NEC, articles 200, 250, and 310; i.e. insulation of grounded conductors (neutrals) shall be white. Grounding conductors (ground wires) shall be bare or insulation shall be green. Insulation of ungrounded conductors (hots) shall be any color except green, white, or gray. Identification of conductors #6 American Wire Guage (AWG) and smaller shall be by continuous jacket color. Color coding of electrical conductors #4 AWG and larger shall be either by continuous color jacket or by colored tape. Colored tape marker shall consist of a half-lap of tape covering a 6-inch length of conductor.
2. Where two or more circuits are present in one conduit or enclosure, the conductors of each circuit shall be identified by a permanent non-metallic tag at each accessible location. The tag shall be fastened to the conductors by two plastic straps. Each tag shall indicate circuit number, letter, or other identification shown in the plans.
3. Grounding electrode conductor #6 AWG for bonding to ground rod at electrical service, shall be solid. Connection of conductor to ground rod shall be made using UL Listed connectors designed for such purposes.
4. Heat Shrink Tape filler shall be used to seal the ends of heat shrink tubing around two or more conductors that are insulated with heat shrink tubing. Tape material shall have a minimum dielectric strength of 225 volts per mil and shall be cross-linked butyl rubber. Tape shall be supplied in rolls and shall have a backing (release paper) to prevent the tape from sticking to itself.
5. Heat shrink tubing shall be heavy wall, UL listed for 600 volts or greater and shall have factory applied internal sealant.
6. GelCaps shall be UL listed for 600-volt applications. GelCap shall have see-through elastomer molded cover. Cover shall be filled with high dielectric insulating gel silicone sealant to provide waterseal. Cover shall be held in place by snap-lock, molded clamp made of UV stable polypropylene.
7. Splicing materials, insulating materials, breakaway disconnects, GelCaps and fuse holders will not be paid for directly but shall be subsidiary to various bid items.

B. CONSTRUCTION METHODS

1. After conductors have been installed in conduit, a pull test shall be made on conductors. When any length of conductor cannot be freely pulled, the Contractor shall make any needed alterations or repairs at no expense to the State.
2. The Contractor shall perform insulation resistance tests in accordance with Item 620, "Electrical Conductors." The Contractor shall coordinate with the Engineer to witness the tests.
3. A sufficient length of conductor for making up connections shall be left in ground boxes (2 feet minimum, 3 feet maximum, to point of splice, 3 feet minimum, 4 feet maximum, when conductor is pulled through with no splice), enclosures, weatherheads and pole bases (1 foot minimum, 1.5 feet maximum).
4. Splices shall be made only in junction boxes, ground boxes, pole bases, or electrical enclosures and shall be made with listed compression or screw type pressure connectors, terminal blocks, bolted lugs, or split bolt connectors. Splices shall be insulated with heavy wall heat shrink tubing or GelCaps and shall be made so as to provide a watertight splice. Heat shrink sleeve shall overlap conductor insulation a minimum of 2 inches on both sides of the splice. Where heat shrink tubing may not shrink sufficiently to provide a watertight seal around the individual conductors, prior to heating the tubing, the Contractor shall increase the diameter of the conductors insulation using heat shrink filler tape to provide a watertight seal between the individual conductors and the heat shrink tubing. Tape shall be visible after completion of all splices. Where filler tape is used but not visible, the Engineer shall approve each individual splice by conducting a physical inspection of each splice. When it appears the tubing has been burned, or overheated the tubing shall be considered to be defective and shall be replaced.
5. GelCaps when used in place of heat shrink method of splicing, shall be sized and installed according to manufacturer's specifications. (Raychem GelCap and GelCap SL or equal.)
6. Wire nuts may be used for #8 AWG or smaller conductors in above-ground junction boxes, but not in pole bases or ground boxes. Wire nuts shall be positioned upright to prevent the accumulation of water. Wire nuts used at these locations shall have factory applied waterproof sealant.
7. Conductors in illumination poles shall be supported by a J-hook in the top of the pole.
8. All conductors bid under Item 620 "Electrical Conductors" shall have breakaway electrical disconnects installed anytime conductors pass through a break-away support device.
9. For terminating the conductors, insulation-jacketing material shall be removed in such a manner as to not nick any of the individual strands of the conductor. When individual conductor strands are removed, the conductor shall be considered to be damaged.
10. When a conductor or cable has been damaged, or fails to pass an insulation resistance test, the conductor shall be replaced.
11. Duct tape, black electrical tape, or wire nuts shall not be used in the repair of a damaged conductor.
12. For terminations, no more than one wire may be installed under a single pressure connector, unless the device is listed for more than one wire.
13. Conductors connected to break-away in line fuse holders must be installed in accordance with the specific manufacturer's installation instructions. Where threaded connections are made, they shall be properly torqued. Where crimp type connections are made, crimps shall be made using properly sized crimping pliers. Proper conductor terminations are critical to the safe operation of break-away devices.
14. Waterproofing boots shall be properly trimmed to fit snugly around the conductor so as to provide a water proof connection. No more than one wire may enter a single opening in any one boot. Water proofing boots must provide the correct number of openings. Where only one wire is to be connected to a boot, the boot may not be a two wire type.

SPLICE OPTION 3

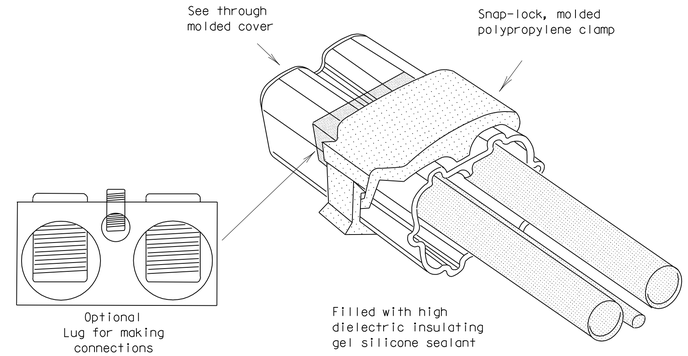
SPLIT BOLT



SPLICE OPTION 4

GELCAP

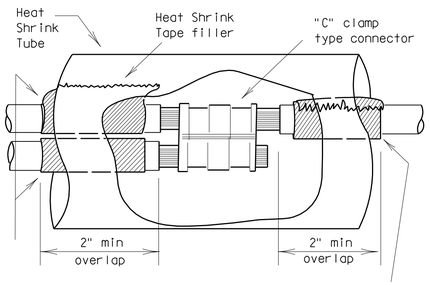
GelCap shall be sized and installed according to manufacturers specifications



15. All conduits that contain circuit wiring of 50 volts or more shall contain an equipment grounding conductor (EGC). Conduit for traffic signals shall have an EGC, with a minimum size of #8 AWG stranded. Unless otherwise shown on the plans, the EGC for all other conduits shall be the same AWG size as the largest current carrying conductor contained in that conduit. The EGC shall be paid for item 620-Electrical Conductors.

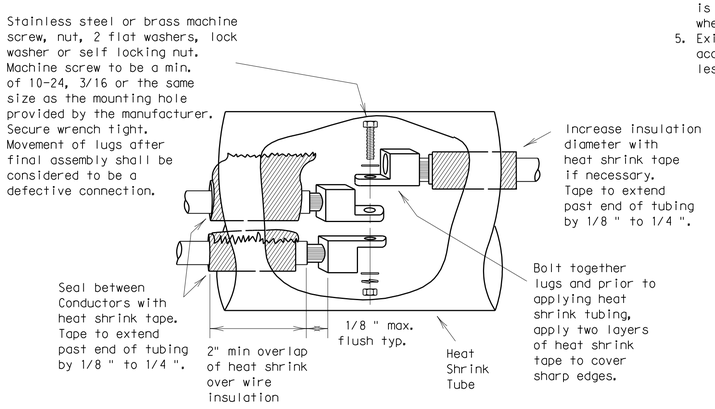
C. TEMPORARY WIRING

1. Temporary conductors and electrical equipment to provide power for utilization equipment, shall be installed in accordance with the NEC article 305. All temporary wiring materials and methods shall comply with the standard sheets. All power outlets for portable electrical equipment, power tools, ice machines, ice storage bins and refrigerators located outdoors at grade, supplied from a utility power source, shall be provided with a ground fault circuit interrupter.
2. Residual current protective devices (GFCI) may be any one of the following: molded cord and plug set, receptacle, or circuit breaker type.
3. Where wire nuts are approved for temporary wiring, they shall be of the self-sealing type.
4. All conductor splices must be contained within a listed enclosure, ground box or the splices will be more than ten feet above grade vertically and more than five feet horizontally from any metal structure. Where temporary conductors are installed in any area that is likely to be subjected to vehicle traffic, or mobile construction equipment, the vertical clearance to ground shall be at least 18 feet when measured at the lowest point. Where power conductors are to be supported by a span wire, the span wire shall be properly grounded.
5. Existing conduit containing service conductors uncovered during the construction process shall be repaired in a timely manner in accordance with the NEC. Existing non-metallic conduit exposed during construction shall not be left exposed above grade, or with less than eighteen inches of cover, without protective methods approved by the Engineer.



SPLICE OPTION 1

C-CLAMP



SPLICE OPTION 2

BOLTED WIRE LUGS

STANDARD PLANS
TEXAS DEPARTMENT OF TRANSPORTATION
Traffic Operations Division

ELECTRICAL DETAILS-CONDUCTORS

ED(2)-03

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REVISIONS	STATE DISTRICT	FEDERAL REGION	FEDERAL AID PROJECT	SHEET
10-93		6		C808
4-98	COUNTY		CONTROL / SECTION / JOB	HIGHWAY
12-00				
3-03				

II. GROUND RODS

A. MATERIALS

1. All ground rods installed at electrical services, including supplemental lightning protection ground rods specified by the plans in other locations such as pole bases, shall be copper clad and UL listed. Rods shall be a minimum diameter of 5/8 inch. The length shall be a minimum of 8 feet. Larger diameter or longer length rods may be called for in some specific locations, see the individual plans sheets.
2. Ground rod clamps shall be listed to be in direct contact with the soil. Where concrete encasement is required, the clamp shall be listed for concrete encasement.

B. CONSTRUCTION METHODS

1. Ground rods installed in locations such as pole bases, to provide supplemental lightning protection need not be totally in contact with the soil. Where called for in the plans, rods may be encased in soil or concrete or any combination of soil and concrete. When concrete encased, the connection of the conductor to the rod shall be readily accessible for inspection or repairs. When driven into the soil the upper end shall be between 2 to 4 inches below finished grade. Ground rods shall not be placed in the same drilled hole as a timber pole.
2. Ground rods shall be installed such that the end imprinted with the rod's part number is installed as being the upper end.
3. Non-conductive coatings such as concrete splatter shall be removed from the rod at the clamp location.
4. Routing of lightning protection ground rod wires shall be run as short and straight as possible. Where bends are required they shall have a minimum radius of four inches.
5. Unless specifically called for by the plans, conduits used for ground rod wires shall be non-metallic. Where metal conduits are specified, a grounding bushing and properly sized bonding jumper shall be provided and properly installed on each end.
6. Where rocky soil or a solid rock bottom is encountered when driving a ground rod and the horizontal trench placement method is the only viable solution, written authorization from the Engineer must be obtained.

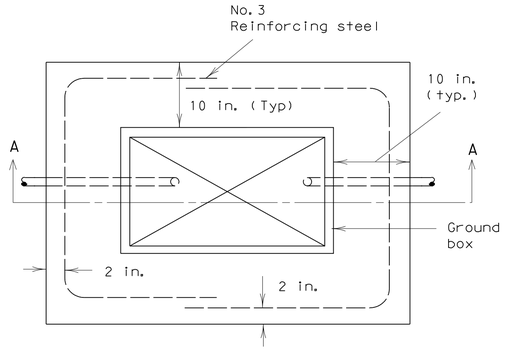
III. GROUND BOX

A. MATERIALS

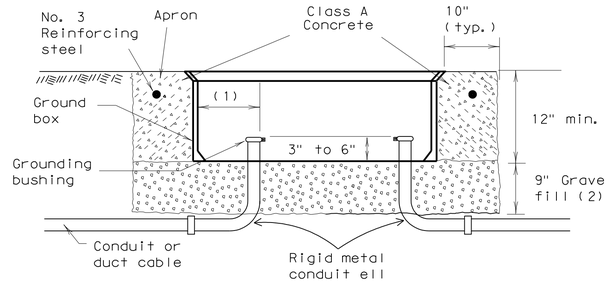
1. Ground boxes 16x30x24 inches (WxLxD) or smaller shall be polymer concrete of the type required by the descriptive code shown elsewhere. Larger ground boxes shall be as shown elsewhere in the plans.
2. All ground boxes and covers shall be permanently marked either by impress or by permanent ink, with manufacturer's model number and manufacturer's name or logo.
3. Covers shall be bolted down, and bolt holes in the box shall be arranged to drain dirt.
4. Ground box Types A, B, C, D & E shall meet the following requirements:
   a. Ground boxes and covers be manufactured from polymer concrete reinforced with continuous strands of woven or stitched borosilicate fiberglass cloth. The polymer concrete shall be made from catalyzed polyester resin, sand and aggregate, and shall have a minimum compressive strength of 11,000 psi. Polymer concrete containing chopped fiberglass or fiberglass reinforced plastic is not acceptable.
   b. Minimum inside dimensions shall be as follows (width x length x depth):
      Type A shall be 11.5 inches x 21 inches x 10 inches, (122311)
      Type B shall be 11.5 inches x 21 inches x 20 inches, (122322)
      Type C shall be 15.25 inches x 28.25 inches x 10 inches, (162911)
      Type D shall be 15.25 inches x 28.25 inches x 20 inches, (162922)
      Type E shall be 11.5 inches x 21 inches x 16 inches, (122317)
   c. Bottom edge of box or extension shall be footed with a minimum 1 1/4 inch flange.
   d. Ground boxes shall withstand 600 lbs. per sq. ft. applied over the entire sidewall with less than 1/4 inch deflection per foot length of box. Ground boxes and covers shall withstand a test loading of 20,000 lbs. over a 10 inch by 10 inch area centered on the cover with less than 1/2 inch deflection. Ground boxes and covers shall meet Western Underground Standards 3.6. Manufacturer shall supply certification by an independent laboratory or sealed by a Texas-Licensed Professional Engineer.
   e. Covers shall be 2 inch (nominal) thick polymer concrete. All hardware shall be stainless steel. Cover shall be secured with two 1/2 inch stainless steel bolts. Bolts shall be self-retaining and shall withstand a minimum of 70 ft-lbs. torque and shall have a minimum 750 lbs. straight pull out strength. Nuts shall be floating and shall provide a minimum of 1/2 inch movement from the center of the nut. Covers shall be skid resistant, minimum 0.5 coefficient of friction. Covers shall be interchangeable between manufacturers and shall conform to the dimensions shown herein. Unless otherwise approved by the Engineer, cover shall be legibly imprinted with the following words in minimum 1 inch letters:
      Ground Boxes containing wiring for traffic signals shall be labeled, Danger High Voltage Traffic Signal.
      Ground boxes containing wiring for illumination systems shall be labeled, Danger High Voltage Illumination.
      Ground boxes containing wiring for traffic management systems shall be labeled, Danger High Voltage Traffic Management.
      Ground boxes containing wiring for sign illumination systems shall be labeled, Danger High Voltage Sign Illumination.
      Ground boxes containing wiring for traffic signals that also contain illumination, powered by the signal electrical service, shall be labeled, Danger High Voltage Traffic Signal.

B. CONSTRUCTION METHODS

1. Ground boxes shall be set on a 9 inch (minimum) bed of aggregate from 3/4 " up to 2" in size. Aggregate shall be in place prior to setting box and conduits shall be capped. Any gravel or dirt in conduit shall be removed.
2. When required by item descriptive code, construction of an apron encasing a ground box including concrete and reinforcing steel shall not be paid for directly but shall be subsidiary to the ground box. Reinforcing steel may be field bent. Concrete for aprons shall be considered miscellaneous concrete for testing purposes. Aprons shall be cast in place.
3. Conduit holes may be cut in the walls of type B & D boxes at least 18 inches beneath the cover.
4. If, within the limits of this project, the Contractor must utilize an existing ground box equipped with a metal cover, the Contractor shall bond the cover to the grounding conductor with a 3 foot long flexible stranded jumper the same size as the grounding conductor. Connection of bonding jumper to metal ground cover shall not be paid for directly but shall be subsidiary to various bid items. The box(es) must be clearly shown on the plans with plan notes fully describing the work required.
5. If there are other ground boxes with metal Covers within the project limits but not involved in the contract, the Engineer may direct the Contractor to ground the covers, designating and identifying the specific boxes in writing. This work will be paid for separately.
6. Termination to metal ground box covers shall be made using a tank ground type lug.



PLAN VIEW

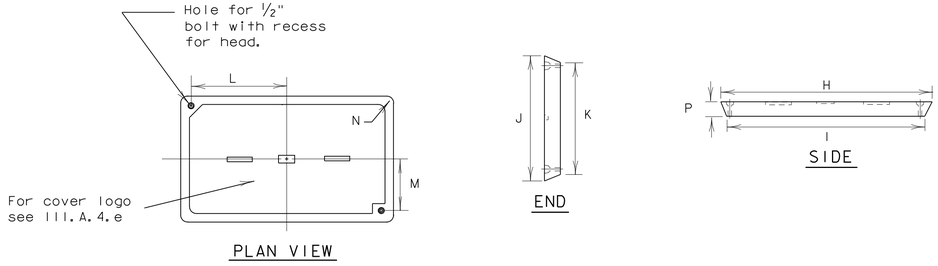


SECTION A - A

APRON FOR GROUND BOXES

(Where required)

(1) Final position of end of conduit shall not exceed one-half the distance to the side of box opposite the conduit entry.
(2) Place gravel "under" the box. not "in" the box. Gravel should not encroach on the interior volume of the box.
(3) Install bushing on the upper end of all ells.
(4) Where a ground rod is present in the ground box, connect it to any and all equipment grounding conductors using a listed connector.
(5) Maintain sufficient space between all conduits so as to allow for proper installation of bushings.
(6) All conduits shall be installed in a neat and workmanlike manner.
(7) All conduits installed in the ground box shall be sealed after completion of conductor installation and any required pull tests. Silicone shall not be used as sealant.



PLAN VIEW

END

SIDE

GROUND BOX COVER

GROUND BOX COVER DIMENSIONS								
BOX	DIMENSIONS (INCHES)							
SIZE	H	I	J	K	L	M	N	P
A, B & E	23 1/4	23	13 3/4	13 1/2	9 7/8	5 1/8	1 3/8	2
C & D	30 1/2	30 1/4	17 1/2	17 1/4	13 1/4	6 3/4	1 3/8	2

5/03 Revision

1 Revised notes.

STANDARD PLANS
TEXAS DEPARTMENT OF TRANSPORTATION
Traffic Operations Division

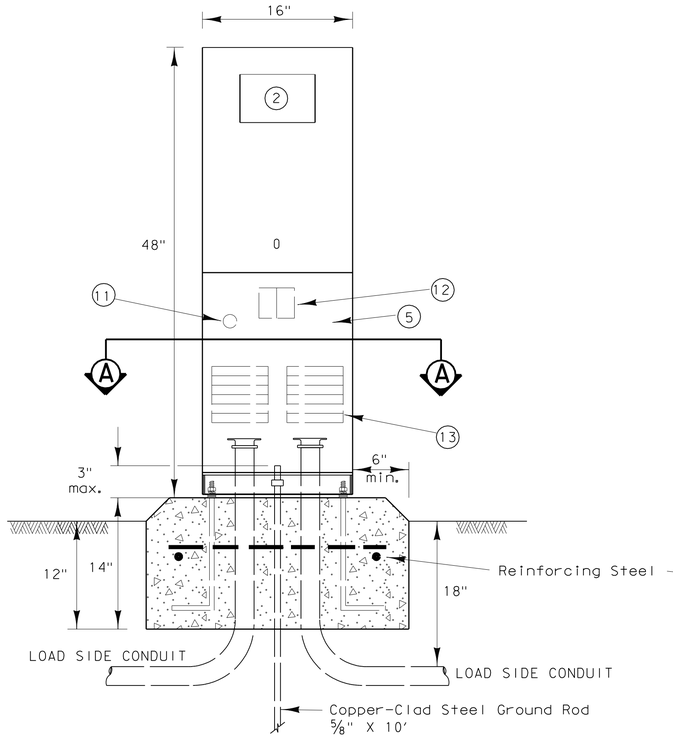
ELECTRICAL DETAILS- GROUND BOXES

ED(3)-03

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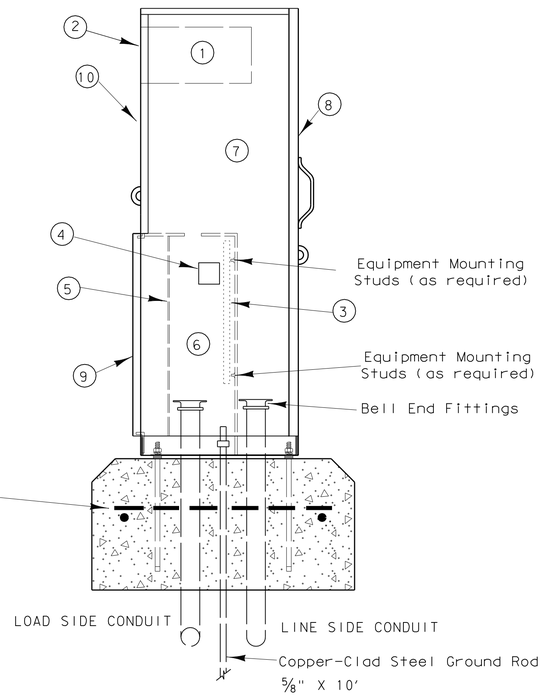
REVISIONS	STATE DISTRICT	FEDERAL REGION	FEDERAL AID PROJECT	SHEET
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3-03	COUNTY	CONTROL	SECTION	JOB / HIGHWAY
5-03				



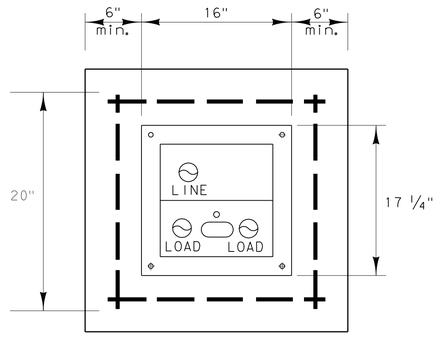
Note: Ells in foundation are rigid metal, size called for on the plans. Extension conduits from these ells may be PVC, provided ends of rigid metal conduits are more than 2 in. below top of concrete foundation. Where extension conduits are metal, grounding bushing must be installed and a bonding jumper properly terminated.

FRONT VIEW

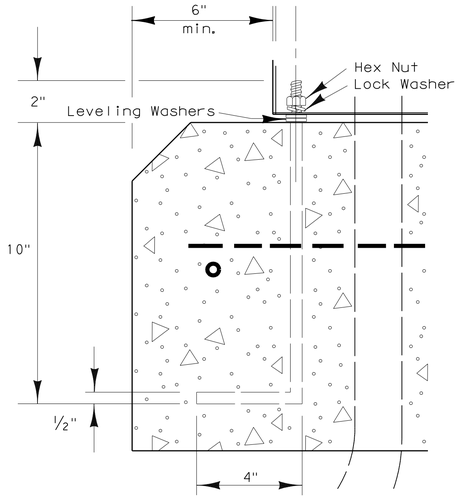
Ty C shown, Ty A similar except that Ty A shall have individual circuit breakers mounted on a equipment mounting panel. CB Handles shall protrude through hinged deadfront trim.



SIDE VIEW



SECTION A-A



ANCHOR BOLT DETAIL

GENERAL NOTES

1. The pedestal service shall be UL type 3R, and shall be constructed of a minimum of 12 guage stainless steel or aluminum as required by descriptive code. Stainless steel shall not be painted. For aluminum, the finish shall be an electrostatic applied poly-urethane baked on powder, light green in color, or color as shown elsewhere and as approved by the Engineer. The front of the interior dead front trim shall be permanently labeled, "Danger High Voltage" with OSHA style label. The exterior of the pedestal service door shall be permanently labeled with a placard as to its use (i.e. Roadway Lighting, Traffic Signals, etc.). Placard shall be neat and professional in appearance. Lettering shall be 1" minimum height.
2. Utility Access Door shall have stainless steel piano hinge and provisions for padlocking.
3. Pedestal door shall have stainless steel piano hinge and stainless steel latch with provisions for padlocking.
4. Meter Access shall be hinged and capable of padlocking.
5. All mounting hardware and installation details of services shall be in accordance with utility company specifications. The Contractor is responsible for contacting the local utility company and obtaining their approval of pedestal details prior to making submittal to the Department and prior to constructing the electrical pedestal service. Any changes required by the utility company shall be noted on the submittals.
6. Meter Socket shall be a minimum of 100 amp rating and shall comply with the local utility requirements.
7. Photoelectric Control shall meet the requirements as shown on ED(5). Shield to control stray light is allowable. The Contractor shall be responsible for proper operation of the photo-electric control. The Contractor shall move and/or adjust or shield the photocell from stray or ambient nighttime light or shall make any other adjustments required for proper operation. The photocell shall face North when practicable. Unless otherwise shown on the plans, the photocell shall turn on the illumination system at 1.0 +(-) 0.5 foot-candle and turn off the illumination system at two footcandles higher than turn on.
8. The Control Station (H-O-A Switch) shall be as shown on ED(5) except that H-O-A Switch operating handle shall protrude through hinged deadfront trim and NEMA 1 enclosure will not be required.
9. Concrete for pedestal service foundation shall be class A or C and shall be in accordance with Item 420, "CONCRETE STRUCTURES", except that concrete will not be paid for directly but shall be considered subsidiary to Item 628, "ELECTRICAL SERVICES".
10. Reinforcing steel shall be #4 rebar in accordance with Item 440, "REINFORCING STEEL".
11. Anchor bolts shall be A36M55 in accordance with Item 449, "ANCHOR BOLTS". Anchor bolts shall be 1/2 inch x 12 inches x 4 inches (dia. x length x hook length).
12. All conduit and conductors attached to the pedestal service and within 12 inches of the pedestal service will not be paid for directly, but shall be subsidiary to the pedestal service. All service conduit and conductors from the utility company transformer to a point 12 inches from the pedestal service shall be paid for separately. Service conduit shall be the size and type as shown in the Electrical Service Data.
13. Dimensions may vary to accomodate required equipment, utility company requirements, or manufacturer's standard equipment dimensions. The Contractor shall submit to the Engineer for approval, six (6) copies of brochures and/or drawings of the pedestal service to be supplied, including actual dimensions, and a paint color sample.
14. A separate enclosure as shown on ED(4) or ED(5) for photocell shall not be used for pedestal services. Photocell shall be installed as shown here.
15. The pedestal door shall have a mechanically attached data pocket on the inside. Pocket shall be either metal or thermoplastic and shall measure at least 12 inches by 12 inches. The Contractor shall prepare and submit a schematic drawing unique to an individual service. The approved drawing shall be laminated and placed in the document pocket of the service at the time of shipment to the job site. All applicable wiring diagrams and plan sheet layouts for all equipment and branch breaker circuits supplied by that service shall also be laminated and placed in the document pocket prior to shipping.
16. ⚠1 Ground rod clamp to be UL listed for direct burial. All non-conductive coating to be removed from ground rod at clamp location. Ground rod wire to be #6 AWG solid copper. Metal conduit ells to have grounding bushing and bonding jumpers correctly installed.
17. All conduits entering enclosures from underground must be sealed. Silicone shall not be allowed.
18. All conductors shall be megged and pull tested. Traffic signal cable not to be megged after connection, as electronics will be damaged.
19. Top of concrete foundation to be finished in a neat and workman like manner. If leveling washers are used, no more than 1/8 in. height shall be used at any one corner. Maximum dip or rise in foundation is not to exceed 1/8 in per foot. When properly installed, top of service enclosure shall read level front to back and side to side within 1/4 in. Rocking or movement of the service enclosure shall be repaired by the contractor at no cost to the state.
20. Liquidtight flexible metal conduit shall not be allowed on PS type services.

LEGEND

1. METER SOCKET, (when required)
2. METER SOCKET WINDOW, (when required)
3. EQUIPMENT MOUNTING PANEL
4. PHOTO ELECTRIC CONTROL WINDOW, (when required)
5. HINGED DEADFRONT TRIM
6. LOAD SIDE CONDUIT AREA
7. LINE SIDE CONDUIT AREA
8. UTILITY ACCESS DOOR, with handle
9. PEDESTAL DOOR
10. HINGED METER ACCESS
11. CONTROL STATION (H-O-A Switch)
12. MAIN DISCONNECT
13. BRANCH CIRCUIT BREAKERS

5/03 Revision

⚠1 Revised notes.

STANDARD PLANS
TEXAS DEPARTMENT OF TRANSPORTATION
Traffic Operations Division

ELECTRICAL DETAILS
ELECTRICAL SERVICE SUPPORT
PEDESTAL SERVICE TYPE PS

ED(8)-03

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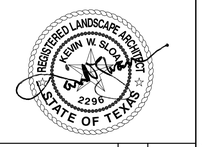
REVISIONS	STATE DISTRICT	FEDERAL REGION	FEDERAL AID PROJECT	SHEET
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3-03	COUNTY		CONTROL / SECTION / JOB	HIGHWAY
5-03				

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L1-00	Sheet Index	●			
L1-01	General Notes & Design Selection Summary	●			
L1-11	Bollard Details	●			
L1-12	Typical Furniture Details	●			
L1-13	Typical Furniture Details	●			
L1-14	Typical Metal Guard Rail - Handrail and Tread Details	●			
L1-15	Typical Metal Guard Rail and Handrail Details	●			
L1-16	Metal Guard Rail and Handrail Plan Details	●			
L1-17	Metal Guard Rail and Handrail Plan Details	●			
L1-18	Typical Metal Guard Rail - Handrail Details	●			
L1-20	Typical Softscape Details	●			
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L1-22	Typical Softscape Details	●			
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L2-01	Vitruvian Way Plan - Furnishings & Elements	●			
L2-02	Ponte Avenue Plan - Furnishings & Elements	●			
L2-03	Vitruvian Way Plan - Furnishings & Elements	●			
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L3-02	South Park Elevations	●			
L3-03	South Park Wall Elevations & Details	●			
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L3-06	Park Furniture & Elements	●			
L3-07	Park Furniture & Elements	●			
L4-01	Ponte Avenue Bridge/Park - Stairs Plans	●			
L4-02	Ponte Avenue Bridge/Park - North Ramp & Stair Plan	●			
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L4-30	Ponte Bridge Stair Sections	●			
L4-31	Ponte Bridge North Ramp Sections	●			
L4-32	Ponte Bridge North Ramp Sections	●			
L4-33	Ponte Bridge South Ramp Sections	●			
L4-34	Ponte Bridge Under Section	●			
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L5-02	Tree Preservation/Wildlife Observation Platform - Elevation	●			
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L5-04	Tree Preservation/Wildlife Observation Platform - Enlarged Details	●			
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L6-20	Pedestrian Bridge Elevation & Weir A Details	●			
L6-21	Pedestrian Bridge Elevation & Weir A Details	●			
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L7-01	Belvedere - Materials, Elements & Layout	●			
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L8-20	Amphitheater - Plan Enlargements	●			
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L8-32	Amphitheater - Wall Section	●			
L8-33	Amphitheater - Sections & Details	●			
L8-34	Amphitheater - Details	●			
L9-01	Grotto and Esplanade Plan - Materials, Elements & Layout	●			
L9-02	Grotto Plan - Street Level, Materials, Elements & Layout	●			
L9-02B	Grotto Plan - Street Level, Drainage Plan	●			
L9-03	Grotto Plan Lake Level - Materials, Elements & Layout	●			
L9-04	Grotto Stairs - Enlarged Plans	●			
L9-05	Esplanade Plan - Materials, Elements & Layout	●			
L9-10	Grotto Stair Sections	●			
L9-11	Grotto Elevation and Section	●			
L9-12	Landscape Wall and Pergola Elevations and Details	●			
L9-13	Grotto Fountain Section	●			
L9-14	Pergola Column and Elements	●			
L9-15	Grotto Fountain Details	●			
L9-16	Grotto Fountain Details	●			
L9-17	Grotto Wall Sections	●			
L10-00	Streetscape & Infrastructure - Planting Plan Cover Sheet	●			
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L10-03	Vitruvian Way Planting Plan - Trees	●			
L10-04	Vitruvian Way Planting Plan - Trees	●			
L10-10	Vitruvian Way Planting Plan - Shrubs, Groundcover & Grasses	●			
L10-11	Vitruvian Way & Ponte Avenue Planting Plan - Shrubs, Groundcover & Grasses	●			
L10-12	Vitruvian Way Planting Plan - Shrubs, Groundcover & Grasses	●			
L10-13	Vitruvian Way Planting Plan - Shrubs, Groundcover & Grasses	●			
L10-20	Ponte Avenue Planting Area Enlargement	●			

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L11-01	Southern Parking Area & Drive Planting Plan - Trees	●			
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L11-03	Southern Park Area A Planting Plan - Trees	●			
L11-04	Southern Park Area B Planting Plan - Trees	●			
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L11-06	Northern Park Area A Planting Plan - Trees	●			
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L11-09	Northern Park Area D Planting Plan - Trees	●			
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L11-16	Southern Park Area A Planting Plan - Shrubs, Groundcover & Grasses	●			
L11-17	Southern Park Area B Planting Plan - Shrubs, Groundcover & Grasses	●			
L11-18	Southern Park Area C Planting Plan - Shrubs, Groundcover & Grasses	●			
L11-19	Northern Park Area A Planting Plan - Shrubs, Groundcover & Grasses	●			
L11-20	Northern Park Area B Planting Plan - Shrubs, Groundcover & Grasses	●			
L11-21	Northern Park Area C Planting Plan - Shrubs, Groundcover & Grasses	●			
L11-22	Northern Park Area D Planting Plan - Shrubs, Groundcover & Grasses	●			
L11-23	Northern Park Area E Planting Plan - Shrubs, Groundcover & Grasses	●			
L11-24	Northern Park Area F Planting Plan - Shrubs, Groundcover & Grasses	●			
L11-25	Northern Park Area G Planting Plan - Shrubs, Groundcover & Grasses	●			
L11-26	Northern Park Area H Planting Plan - Shrubs, Groundcover & Grasses	●			
L11-27	Southern Park Area - Top Soil & Power Rake Areas	●			
L11-28	Northern Park Area - Top Soil & Power Rake Areas	●			
L11-30	Southern Park Area C Planting Plan Enlargement	●			
L11-31	Southern Park Area C Planting Plan Enlargement	●			
L11-32	Northern Park Area A Planting Plan Enlargement	●			
L11-33	Northern Park Area A Planting Plan Enlargement	●			

IR-00	Streetscape & Infrastructure Irrigation Plan Cover Sheet	●			
IR-01	Vitruvian Way, Irrigation Plan	●			
IR-02	Vitruvian Way Irrigation Plan	●			
IR-03	Vitruvian Way Irrigation Plan	●			
IR-04	Vitruvian Way Irrigation Plan	●			
IR-05	Vitruvian Way Irrigation Plan	●			
IR-06	Vitruvian Way Irrigation Plan - Trees	●			
IR-07	Vitruvian Way, Irrigation Plan - Trees	●			
IR-08	Vitruvian Way, Irrigation Plan - Trees	●			
IR-09	Vitruvian Way, Irrigation Plan - Trees	●			
IR-10	Vitruvian Way, Irrigation Plan - Trees	●			
IR-12	Vitruvian Park - Irrigation Plan Cover Sheet	●			
IR-13	Southern Parking Area and Drive Irrigation Plan	●			
IR-14	Southern Parking Area and Drive Irrigation Plan	●			
IR-15	Southern Park Area-A Irrigation Plan	●			
IR-16	Southern Park Area -B Irrigation Plan	●			
IR-17	Southern Park Area-C Irrigation Plan	●			
IR-18	Northern Park Area-A Irrigation Plan	●			
IR-19	Southern Parking Area and Drive Irrigation Tree Plan	●			
IR-20	Southern Parking Area and Drive Irrigation Tree Plan	●			
IR-21	Southern Park Area-A Irrigation Tree Plan	●			
IR-22	Southern Park Area-B Irrigation Tree Plan	●			
IR-23	Southern Park Area-C Irrigation Tree Plan	●			
IR-24	Northern Park Area-A Irrigation Tree Plan	●			
IR-25	Parkway & Park Irrigation Detail Plan	●			



NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

SHEET INDEX

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	MM	NOV 03, 2009	PW # 2009-04	L1-00

BID

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

GENERAL NOTE

Site, Landscape and Irrigation Construction shall comply with the General Conditions of Paving, Drainage and Utility Improvements Package specifically as they pertain to site access, environmental protection, materials staging and the understanding between this contract and the Town of Addison regarding access through and/or occupancy of the adjacent park land and creek.

GENERAL LANDSCAPE NOTES

1. For all relevant utilities refer to Civil Engineering documents for scope and location.
2. Plant material shall be measured and sized according to the latest edition of the Texas Nursery and Landscape Association (TNLA) Specifications, Grades, and Standards.
3. Plant material shall be selected only with Landscape Architect's approval.
4. All plant substitutions are subject to approval by Landscape Architect and must be approved in advance of selection.
5. Trees shall not be planted deeper than the base of the "trunk flare".
6. Trees must be planted three feet (3 ') from back of curbs, sidewalks, utility lines, screening walls, and/or other structures.
7. Trees shall not be watered to excess that results in soil saturation. If soil becomes saturated, the water schedule shall be adjusted to allow for drainage and absorption of the excess water.
8. A 3" to 4" layer of mulch, shall be provided around the base of the planted trees. The mulch shall be pulled back 3" to 6" from the root flare of the tree.
9. No person(s) or entity may use improper or malicious maintenance or pruning techniques which would likely lead to death of the tree.
10. The contractor shall be responsible for the maintenance, establishment, and permanence of plant material. All landscaping shall be maintained in a neat and orderly manner. This shall include, but not limited to, pruning, fertilizing, watering, and other activities for the maintenance of landscape areas.
11. All plant material shall be maintained in a healthy and growing condition as is appropriate for the season of the year. Plant material that is damaged, destroyed, or removed, shall be replaced with plant material of similar size and variety with in 30 days unless otherwise approved in writing by the Landscape Architect. Replacement plant material shall be observed by the Owner's Appointed Representative at time of replacement.
12. Landscape and open area shall be kept free of trash, litter and weeds.
13. An automatic irrigation system shall be provided to irrigate all landscape areas. Over spray on streets and walks is prohibited.
14. All walkways shall meet ADA requirements.
15. If information in the "General Landscape Notes" conflicts with the specifications, the specifications will prevail.
16. Screening for solid wate collection and loading areas shall be the same as, or of equal quality to, principal building materials.
17. Landscape Architect shall review all shop drawings requested in drawings.
18. The Landscape Contractor's scope of work to begin at finish grade less 4" where top soil is required as indicated on sheets L11-27 & L11-28.

IRRIGATION NOTES

The entire property shall be irrigated. Automatic irrigation systems shall comply with the following guidelines.

1. All plant material (including street trees and planting within the public right-of-way) shall be watered with an automatic irrigation system including an ET based controller.
2. Irrigation sprinkler layouts shall be designed to minimize the amount of spray that will fall on sidewalks, neighboring properties, and adjacent buildings. Backflow prevention devices shall be placed per the Town of Addison Public Works Department's standards
3. Valve and circuits shall be separated based on water use, so that turf areas are watered separately from shrub and ground cover areas. Irrigation heads in the turf areas will be valued separately from shrub and/or ground cover areas. It is recommended that seasonal color areas be watered separately from turf areas.
4. Adjustable flow controls shall be required on circuit remote control valves and pressure regulation component(s) shall be required where static pressure exceeds manufacturer's recommended operating range.
5. Sprinkler heads shall have matched precipitation rates within each control valve circuit.
6. Serviceable check valves shall be required adjacent to paved areas where elevation differences may cause low head drainage.
7. Sprinkler head spacing shall be designed for head-to-head coverage or heads shall be spaced as per manufacturer's recommendations and adjusted for prevailing winds. The system shall be designed so that irrigation is not applied to vehicular traffic lanes, other pavement or structures.
8. All automatic irrigation systems shall be equipped with a controller capable of dual or multiple programming. Controllers shall have multiple cycle start capacity and a flexible calendar program, including the capability of being set to water every five days. All automatic irrigation systems shall be equipped with a rain sensor shut-off device.
9. Irrigation construction plans shall include a water budget. A laminated copy of the water budget shall be permanently installed inside the irrigation controller door. Water budget shall include:
   A. Chart containing zone number, precipitation rate and gpm.
   B. Location of emergency irrigation system shut-off valve.

SITE GRADING NOTES

1. No walk or ramp cross slopes shall exceed 2.0%.
2. No walk longitudinal slope shall exceed 5.0%.
3. No ramp longitudinal slope shall exceed 8.33%.
4. Curb ramps shall be constructed at a maximum longitudinal slope of 8.33% and a maximum cross slopes of 2.0%. Length to be determined in field.
5. Refer to Civil Engineer drawings for grading.

TREE AND NATURAL AREA PROTECTION NOTES

1. All trees and natural areas shown on plan to be preserved shall be protected during construction with temporary chain link fencing.
2. Protective fences shall be erected according to City of Addison Standards for Tree Protection.
3. Protective fences shall be installed prior to the start of any site preparation work (clearing, grubbing or grading), and shall be maintained throughout all phases of the construction project.
4. Erosion and sedimentation control barriers shall be installed or maintained in a manner which does not result in soil build-up within tree drip lines.
5. Protective fences shall surround the trees or group of trees, and will be located at the outermost limit of branches (drip line) , for natural areas, protective fences shall follow the Limit of Construction line, in order to prevent the following:
   A. Soil compaction in the root zone area resulting from vehicular traffic or storage of equipment or materials;
   B. Root zone disturbances due to grade changes (greater than 6 inches cut or fill), or trenching not reviewed and authorized by the City Aborist;
   C. Wounds to exposed roots, trunk or limbs by mechanical equipment;
   D. Other activities detrimental to trees such as chemical storage, cement truck cleaning, and fires.
6. Exceptions to installing fences at tree drip lines may be permitted in the following cases:
   A. Where there is to be an approved grade change, impermeable paving surface, tree well, or other such site development, erect the fence approximately 2 to 4 feet beyond the area disturbed;
   B. Where permeable paving is to be installed within a tree's drip line, erect the fence at the outer limits of the permeable paving area (prior to site grading so that this area is graded separately prior to paving installation to minimized root damage);
   C. Where trees are close to proposed buildings, erect the fence to allow 6 to 10 feet of work space between the fence and the building;
   D. Where there are severe space constraints due to tract size, or other special requirements, contact the City Arborist to discuss alternatives.
7. Where any of the above exceptions result in a fence being closer than 4 feet to a tree trunk, protect the trunk with strapped-on planking to a height of 8 ft (or to the limits of lower branching) in addition to the reduced fencing provided.
8. Trees approved for removal shall be removed in a manner which does not impact trees to be preserved.
9. Any roots exposed by construction activity shall be pruned flush with the soil. Backfill root areas with good quality top soil as soon as possible. If exposed root areas are not backfilled within 2 days, cover them with organic material in a manner which reduces soil temperature and minimizes water loss due to evaporation.
10. Any trenching required for the installation of landscape irrigation shall be placed as far from existing tree trunks as possible.
11. No landscape topsoil dressing greater than 4 inches shall be permitted within the drip line of trees. No soil is permitted on the root flare of any tree.
12. Pruning to provide clearance for structures, vehicular traffic and equipment shall take place before damage occurs (ripping of branches, etc.).
13. All finished pruning shall be done according to recognized, approved standards of the industry (Reference the National Arborist Association Pruning Standards for Shade Trees).
14. Deviations from the above notes may be considered ordinance violations if there is substantial non-compliance or if a tree sustains damage as a result.
15. Special Note: For the protection of natural areas, no exceptions to installing fences at the Limit of Construction line will be permitted.

PLANTING NOTES

1. All tree locations that are shown without any layout or dimensions on the planting plans, shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (L/1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.

DESIGN SELECTION SUMMARY

CONCRETE PAVING A:
Finish - Medium Float
Color - Elephant Gray

CONCRETE PAVING B:
Finish- Broom
Color - Elephant Gray

CONCRETE PAVING C:
Saw-cut Patterned
Finish - Medium Float
Color - Elephant Gray

CONCRETE PAVING D:
Finish- Rock Salt
Color - Elephant Gray

CONCRETE WALL
Finish - Medium Sandblast
(no exposed aggregate)
Color - Elephant Gray

PAVESTONE CONCRETE PAVER A:
City Stone I
Size - 11-¾ " L x 5-$^{13}/_{16}$ " W x 2-⅜"H
Color - Travertine Blend

PAVESTONE CONCRETE PAVER B:
City Stone I
Size - 11-¾ " L x 5-$^{13}/_{16}$ " W x 2-⅜"H
Color - Bellows Brown

PAVESTONE CONCRETE PAVER C:
Holland Stone
Size - 7-$^{13}/_{16}$"L x 3-⅞"W x 2-⅜"H
Color - Bellows Brown

PAVESTONE CONCRETE PAVER D:
ADA Paver
Size - 7-$^{13}/_{16}$"L x 3-⅞"W x 2-⅜"H
Color - Antique Pewter

PAVESTONE CONCRETE PAVER E:
Holland Stone
Size - 7-$^{13}/_{16}$"L x 3-⅞"W x 2-⅜"H
Color - Antique Pewter

STRUCTURAL CONCRETE
MASONRY UNIT WALL:
Burnished Block to match
adjacent building
Size - 8x16 w/4" matching cap
Color - to match adjacent building

DRAIN GRATE
6" Round
Model - NDS Part No. 918B
Color - Brass

ATRIUM GRATE
6" Round Brass
Model - NDS Part No. 90B
Color - Brass

PAVER GRATE
72" Square
Model - Ironsmith 6224

METAL PERGOLA
Finish - Powder Coated
Color - White

METAL TRELLIS
Finish - Powder Coated
Color - White

METAL GUARD RAIL
Finish/Color - Hot dipped Galvanized

METAL HANDRAIL
Finish/Color - Hot dipped Galvanized

GRANITE BOLLARD w/
STAINLESS STEEL CAP
Finish - Flamed and Polished
Color - Dakota Mahogany

CONCRETE BENCH
Finish - Medium Sandblast
(no exposed aggregate)
Color - Elephant Gray

LAKE EDGE WALL
Finish - Medium Sandblast
(no exposed aggregate)
Color - Elephant Gray

CONCRETE WEIR
Finish - Medium Sandblast
(no exposed aggregate)
Color - Elephant Gray

HOLLOW METAL DOOR AND FRAME
Size - 30" x 80", 45 min. rating
Color - Galvanized (Gray)

METAL GATE
Finish/Color - Hot-dip Galvanized

LIMESTONE BOULDER

Reference plan for graphic
representation of approximate sizes:
Small - 2'-6" x 2'-6"
Medium - 2'-6" x 4'-0"
Large - 2'-6" x 6'-0"
Finish - Top surface cut flat
elevation of top surface
18"-22"above finished grade
Color - Buff

STONE VENEER

Blue/Green Chinese Stone
Thickness = 3 cm
Finish = Thermal
Edges = all 4 sides to be sawcut
Height = all stones to be 4"
Length = Varies See Below
Radius surface = 6", 8½", & 12"
Flat Surface = 8", 13", & 21"
Mortar: Dark Gray
Coursing pattern to match the approved
on-site mock-up design standard.

FULLY GROUTED BEACH PEBBLES
Size - 2" to 1½" Round
Color - Gray

CHAIR
Landscape Forms - Parc Centre
Freestanding w/no arms
Color - Silver

TABLE
Landscape Forms - Parc Centre
Freestanding - 30" diameter
Color - Silver

PEDESTAL DRINKING FOUNTAIN
Haws Corporation - Model 3500D
Color - Silver - anchored to concrete
with anchor bolts.
ref. L1-13 for details

LITTER RECEPTACLE
Hess - Punto -
11.8 gal. - Standard finish - Embedded
ref. L1-13 for details

BENCH
Landscape Forms - Stay Bench
Embedded - Powder-coat finish

PET WASTE DISPOSAL SYSTEM
Mutt Mitt Kit - Dispenser - Green with
Single Ply Mitts - Custom Signage
22 Gallon Waste Receptacle - Black

BIKE RACK
Landscape Forms - Ring Bike Rack
Color/Finish - Stainless Steel

GRAVEL
Washed Native Gravel
Size - 1/2" to 1"

LIMESTONE SLAB
Finish - Fractured face
Color - Buff
Size - Reference Plans

REGISTERED LANDSCAPE ARCHITECT
KEVIN W SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

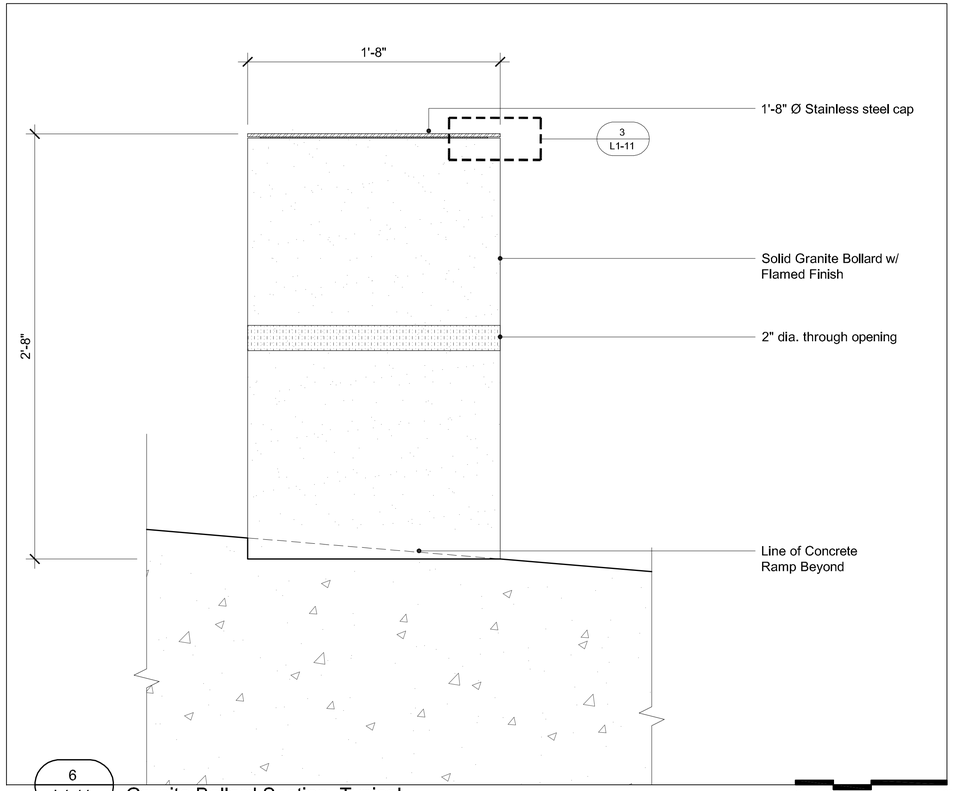
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

GENERAL NOTES & DESIGN SELECTION SUMMARY

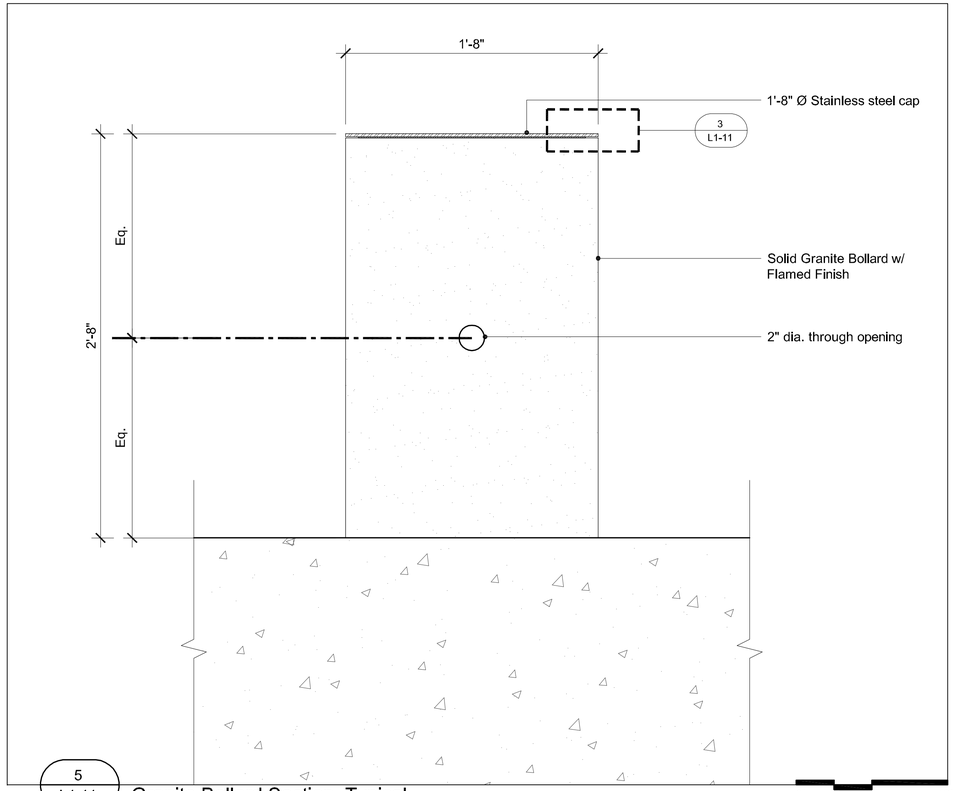
KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	MM	NOV 03, 2009 BID	PW # 2009-04	L1-01

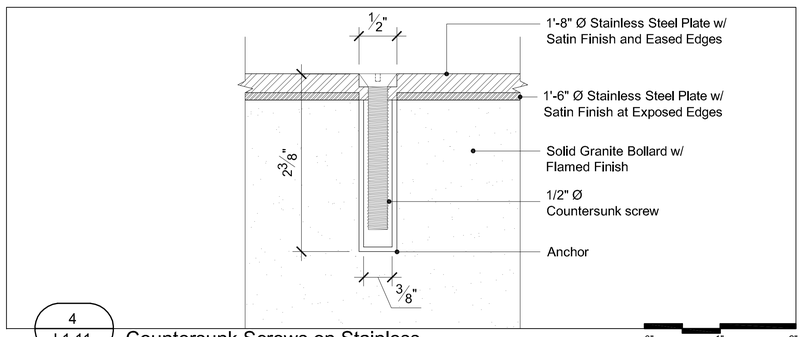
PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



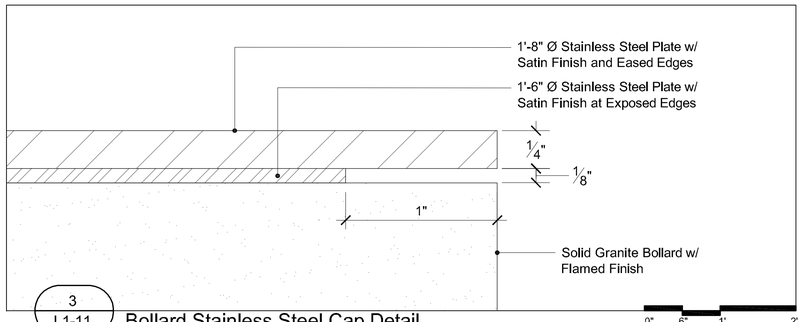
6 L1-11 Granite Bollard Section, Typical



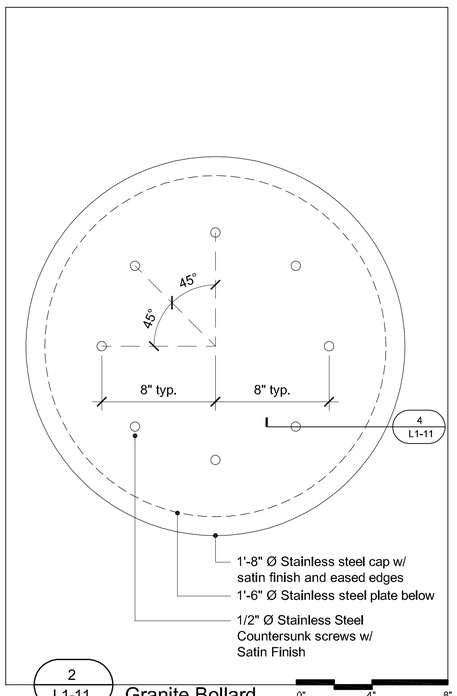
5 L1-11 Granite Bollard Section, Typical



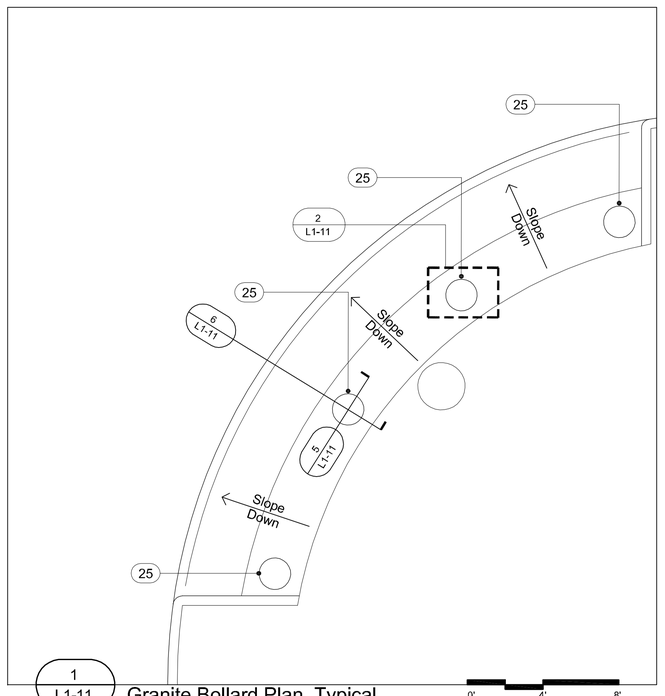
4 L1-11 Countersunk Screws on Stainless Steel Bollard Cap Detail, Typical



3 L1-11 Bollard Stainless Steel Cap Detail



2 L1-11 Granite Bollard Plan, Typical



1 L1-11 Granite Bollard Plan, Typical

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
3. Planting Area: Ref. L10-00's & L11-00's
4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

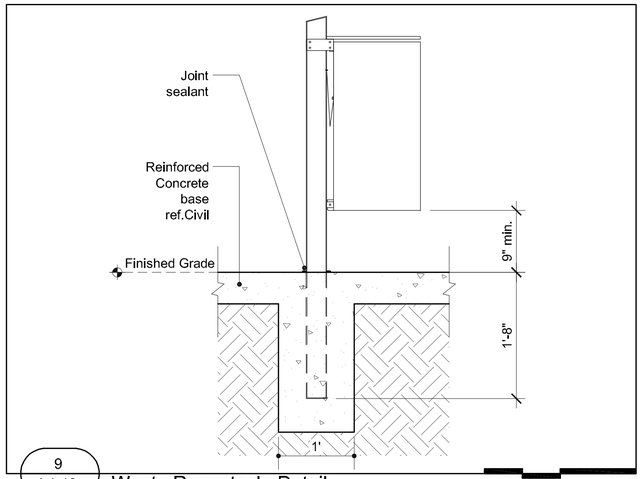
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

BOLLARD DETAILS

KEVIN SLOAN STUDIO
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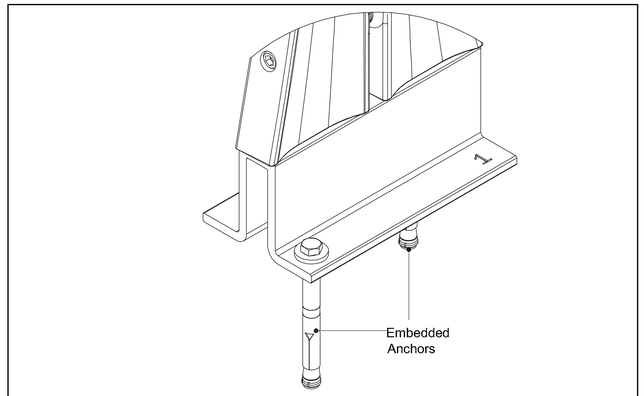
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PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



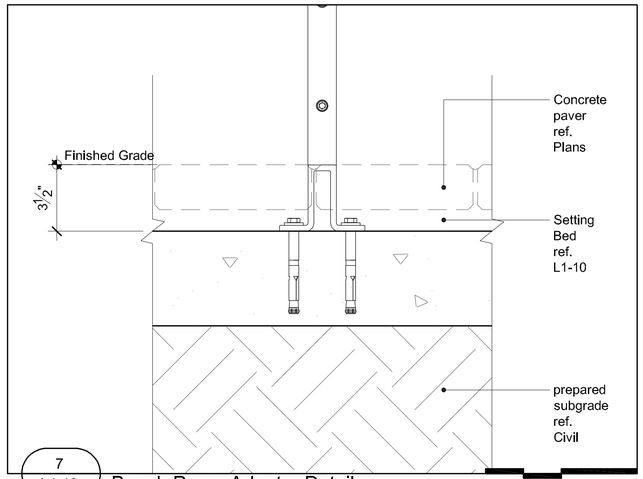
9 L1-12 **Waste Receptacle Detail**

0' 6" 1' 2'



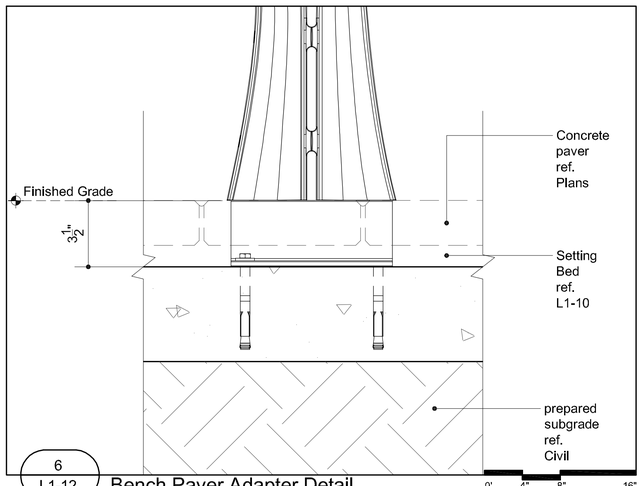
8 L1-12 **Bench Paver Adapter Detail**

NOT TO SCALE



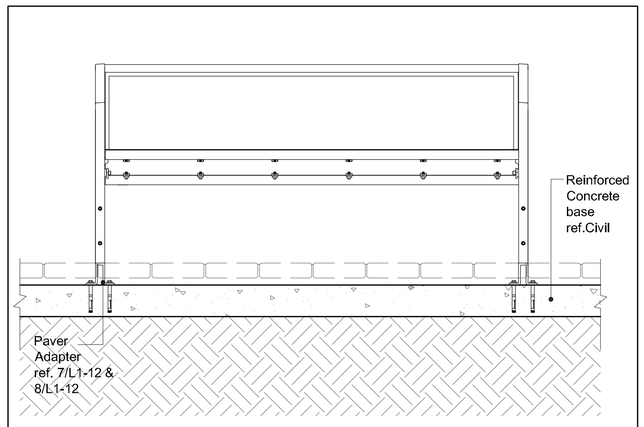
7 L1-12 **Bench Paver Adapter Detail**

0' 4" 8" 16"



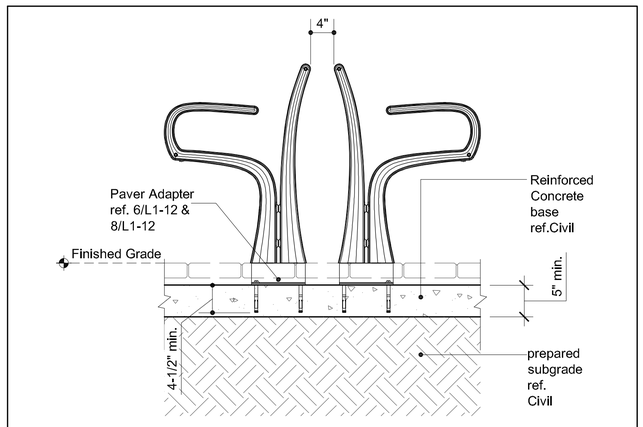
6 L1-12 **Bench Paver Adapter Detail**

0' 4" 8" 16"



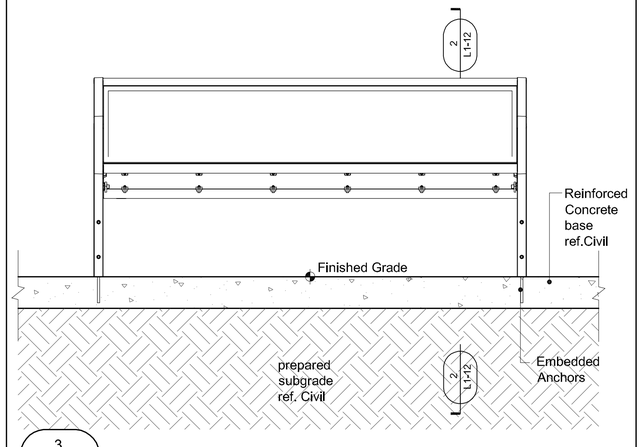
5 L1-12 **Bench in Paver Elevation**

0' 6" 1' 2'



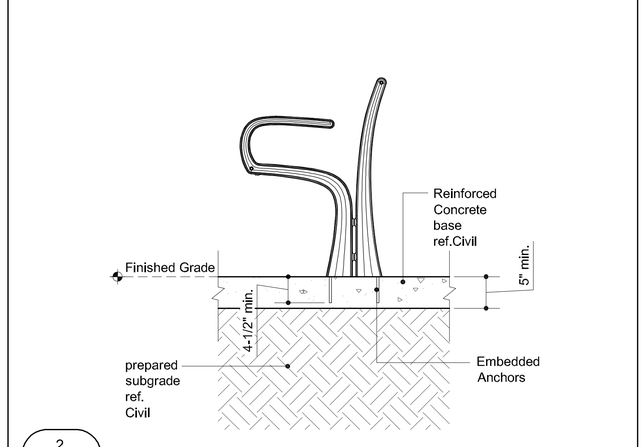
4 L1-12 **Bench in Paver Back to Back Section**

0' 6" 1' 2'



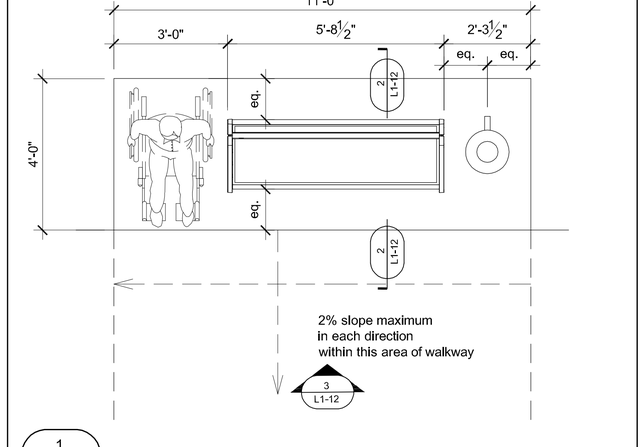
3 L1-12 **Street Bench Elevation**

0' 6" 1' 2'



2 L1-12 **Bench Section Detail**

0' 6" 1' 2'



1 L1-12 **Bench and Waste Receptacle Plan Detail**

0' 1' 2' 4'

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

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4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

REGISTERED LANDSCAPE ARCHITECT KEVIN W. SLOAN 2296 STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

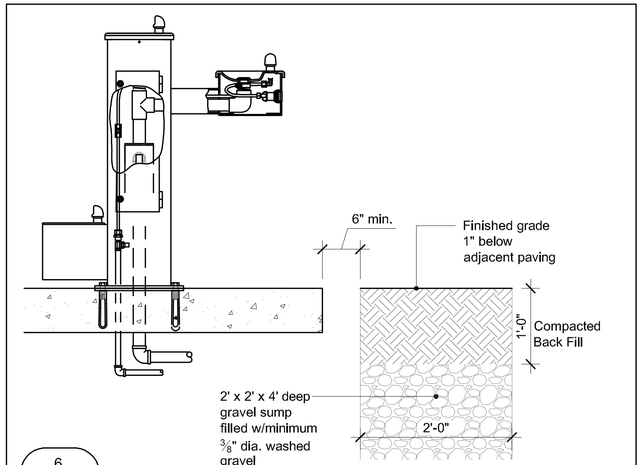
TYPICAL FURNITURE DETAILS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

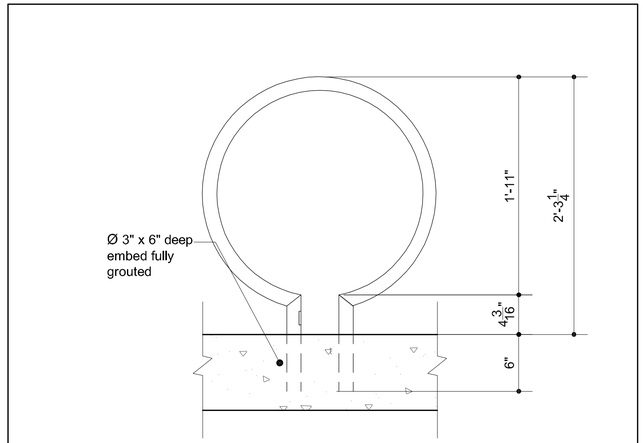
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5029-01	KWS	MM	NOV 03, 2009	PW # 2009-04	L1-12

BID

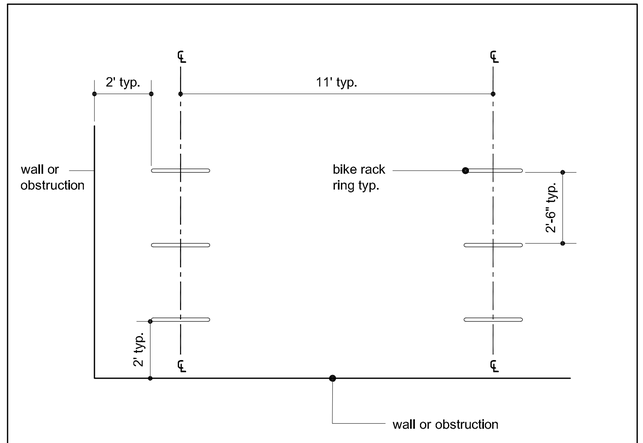
PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



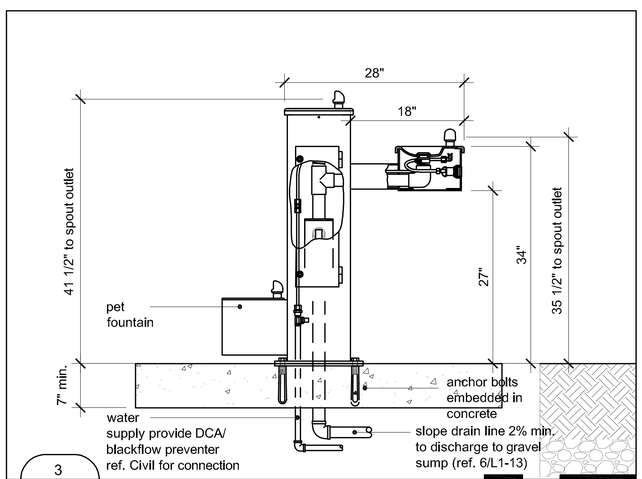
6 L1-13 Drinking Fountain Sump Detail 0' 6" 1' 2'



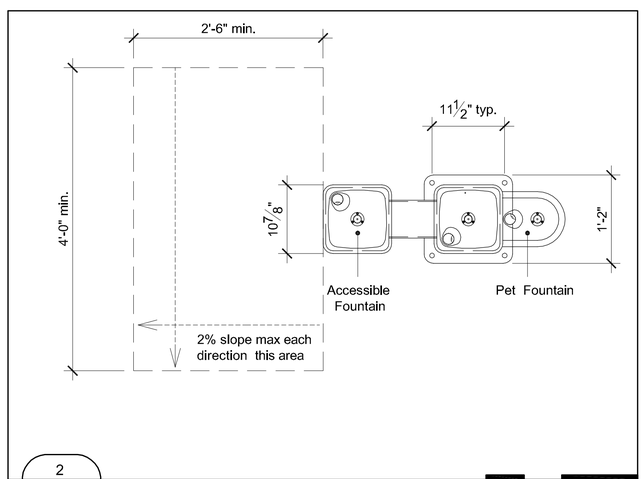
5 L1-13 Bike Rack Elevation Detail



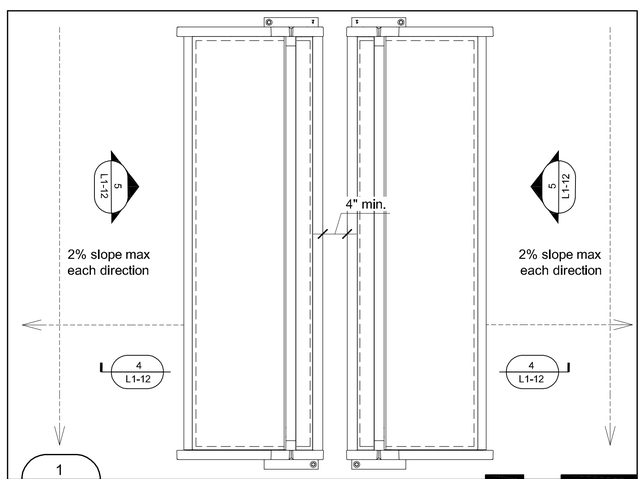
4 L1-13 Bike Rack Plan Layout 0' 16" 32" 64"



3 L1-13 Drinking Fountain Elevation 0' 6" 1' 2'



2 L1-13 Drinking Fountain Plan Layout 0' 6" 1' 2'



1 L1-13 Ponte Avenue Bench Plan Layout 0' 6" 1' 2'

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

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11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
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23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
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27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

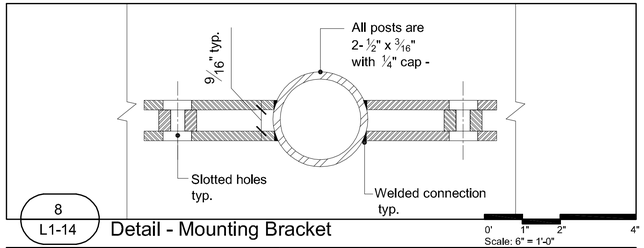
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

TYPICAL FURNITURE DETAILS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

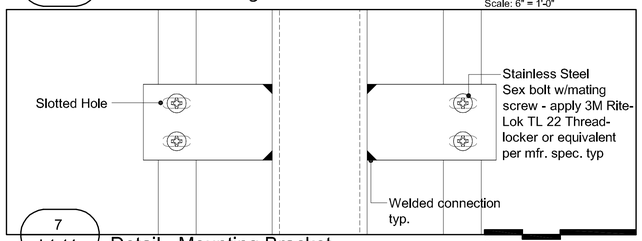
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	MM	NOV 03, 2009 BID	PW # 2009-04	L1-13

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



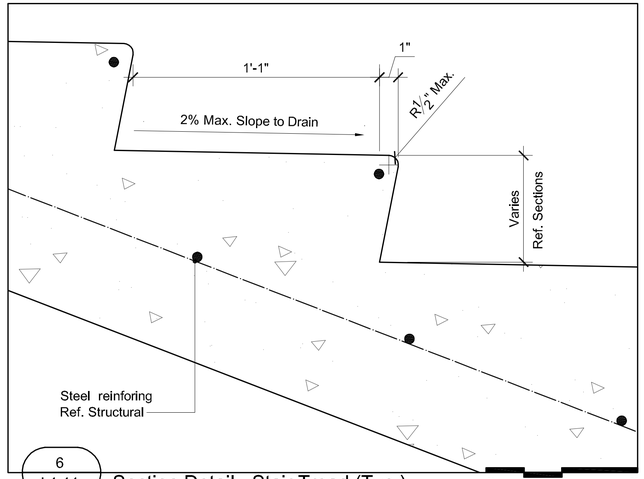
8 L1-14 **Detail - Mounting Bracket**

Scale: 6" = 1'-0"



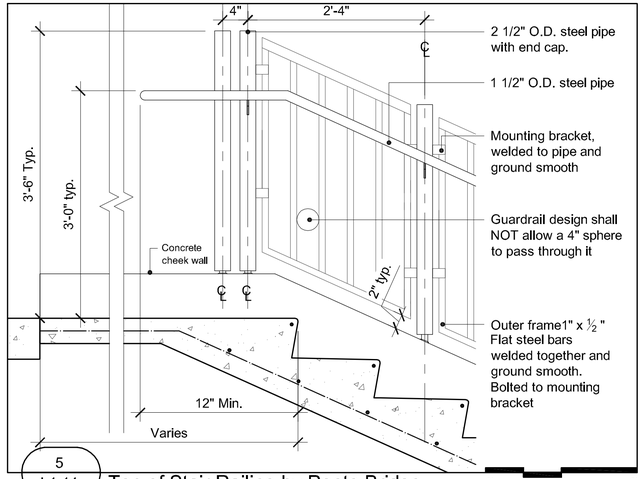
7 L1-14 **Detail - Mounting Bracket**

Scale: 6" = 1'-0"



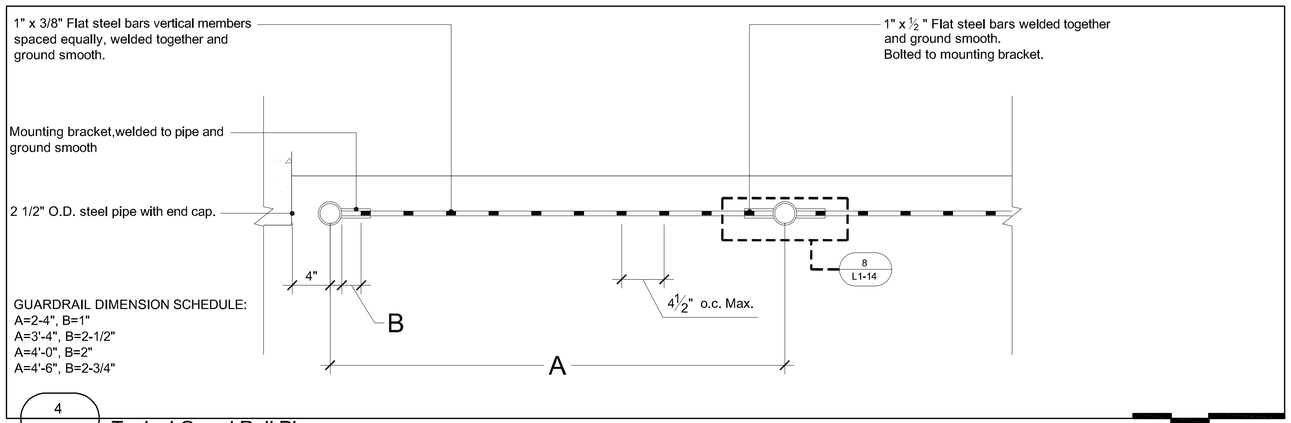
6 L1-14 **Section Detail - Stair Tread (Typ.)**

Scale: 3" = 1'-0"



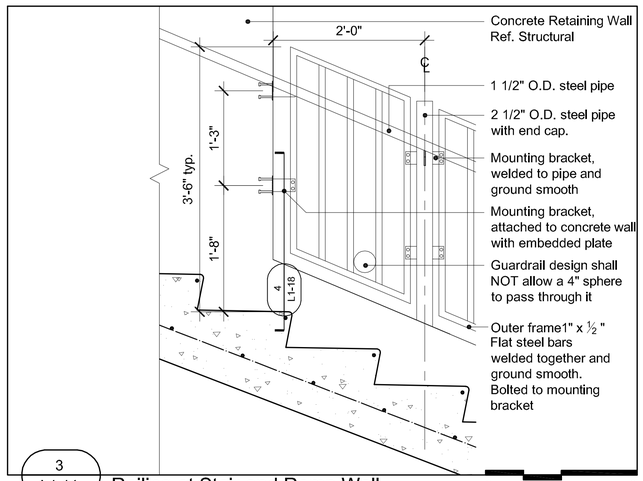
5 L1-14 **Top of Stair Railing by Ponte Bridge**

Scale: 1" = 1'-0"



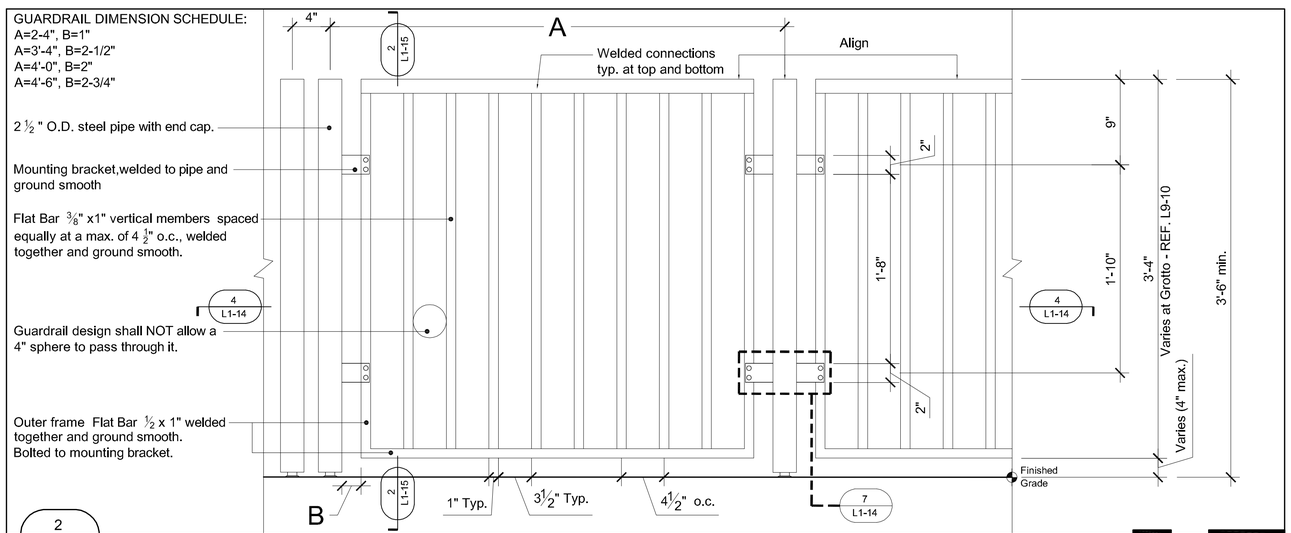
4 L1-14 **Typical Guard Rail Plan**

Scale: 1 1/2" = 1'-0"



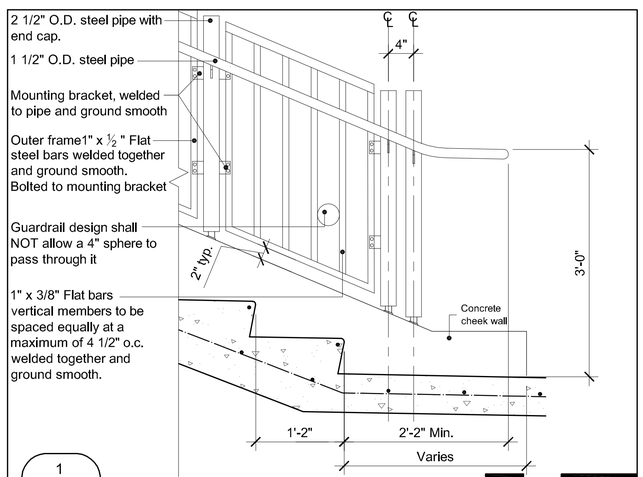
3 L1-14 **Railing at Stair and Ramp Wall**

Scale: 1" = 1'-0"



2 L1-14 **Detail - Typical Guard Rail**

Scale: 1 1/2" = 1'-0"



1 L1-14 **Bottom of Stair Railing by Ponte Bridge**

Scale: 1" = 1'-0"

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

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REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

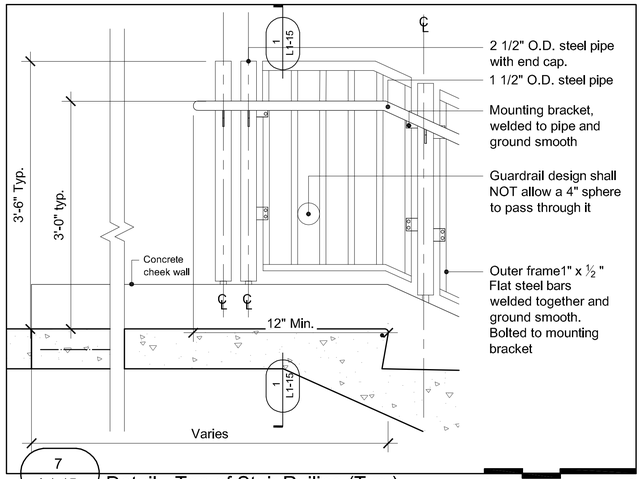
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

TYPICAL METAL GUARD RAIL- HANDRAIL AND TREAD DETAILS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

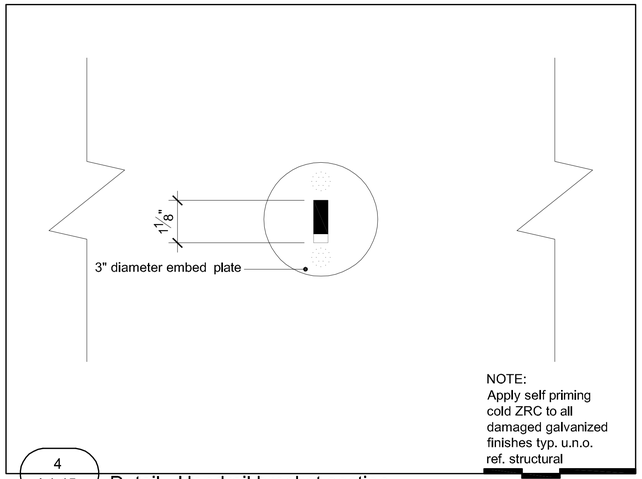
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	MM	NOV 03, 2009 BID	PW # 2009-04	L1-14

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



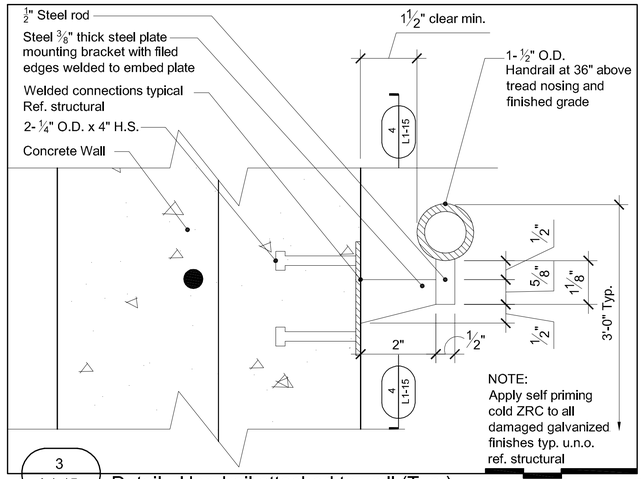
7 L1-15 Detail - Top of Stair Railing (Typ.)

Scale: 1" = 1'-0"



4 L1-15 Detail - Handrail bracket section

Scale: 6" = 1'-0"



3 L1-15 Detail - Handrail attached to wall (Typ.)

Scale: 6" = 1'-0"

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

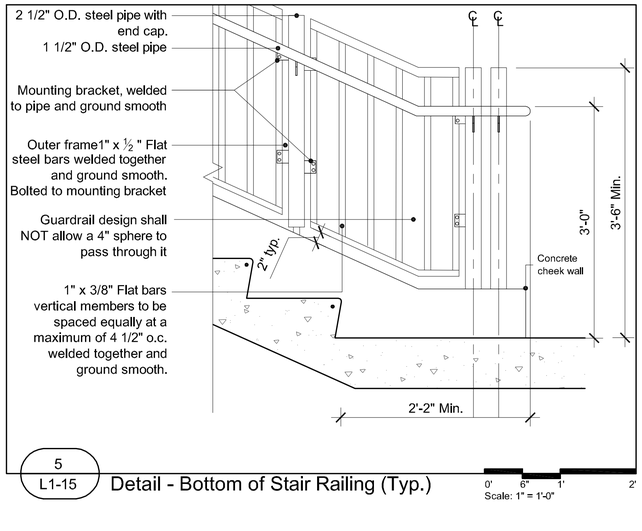
Refer to sheets L1-12 & L1-13 for furniture and park element details.

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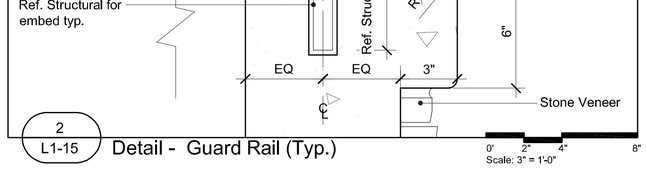
6 L1-15 Detail - Railing at Stair (Typ.)

Scale: 1" = 1'-0"



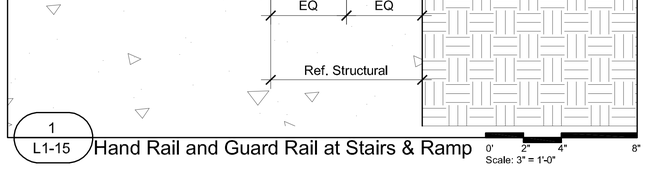
5 L1-15 Detail - Bottom of Stair Railing (Typ.)

Scale: 1" = 1'-0"



2 L1-15 Detail - Guard Rail (Typ.)

Scale: 3" = 1'-0"



1 L1-15 Hand Rail and Guard Rail at Stairs & Ramp

Scale: 3" = 1'-0"

REGISTERED LANDSCAPE ARCHITECT KEVIN W. SLOAN 2296 STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

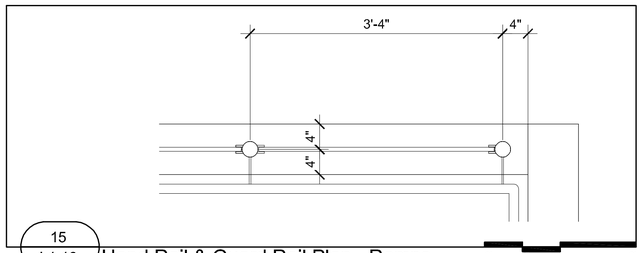
TYPICAL METAL GUARD RAIL AND HANDRAIL DETAILS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

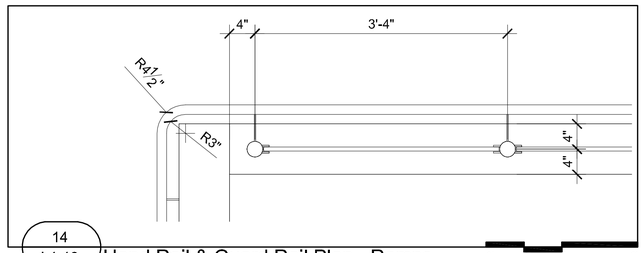
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5029-01	KWS	MM	NOV 03, 2009	PW # 2009-04	L1-15

BID

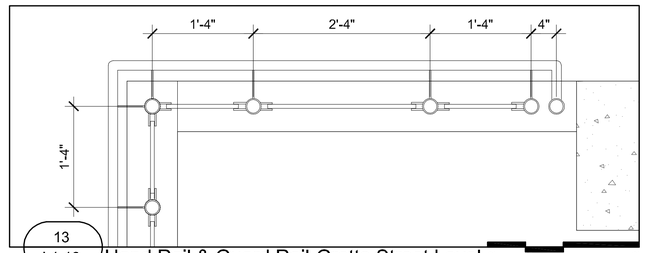
PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



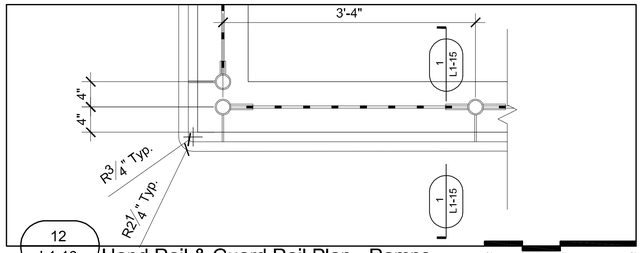
15 L1-16 **Hand Rail & Guard Rail Plan - Ramps**
REF. 1/L4-03



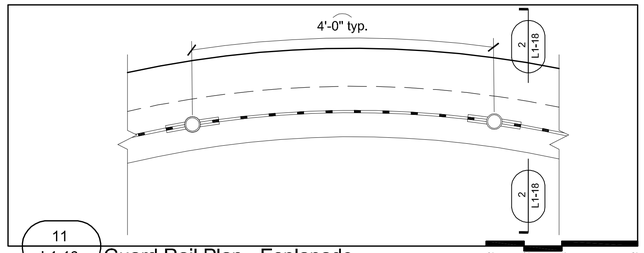
14 L1-16 **Hand Rail & Guard Rail Plan - Ramps**
REF. 1/L4-02, 1/L4-03



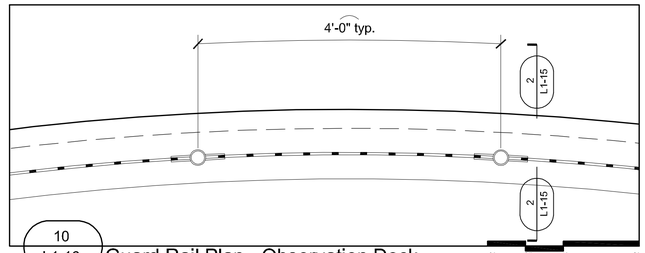
13 L1-16 **Hand Rail & Guard Rail-Grotto Street Level**
REF. 1/L9-04, 2/L9-04



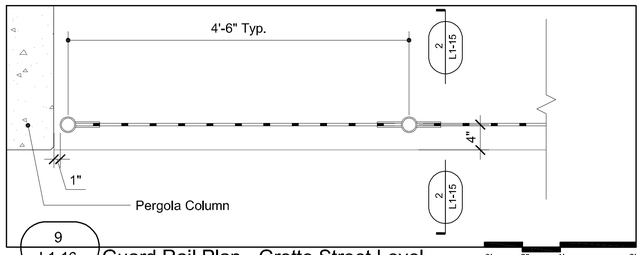
12 L1-16 **Hand Rail & Guard Rail Plan - Ramps**
REF. 1/L4-02, 1/L4-03



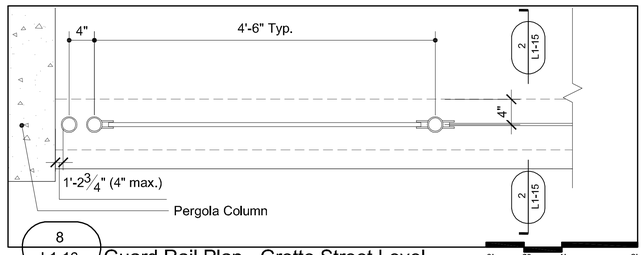
11 L1-16 **Guard Rail Plan - Esplanade**
REF. 2/L9-05



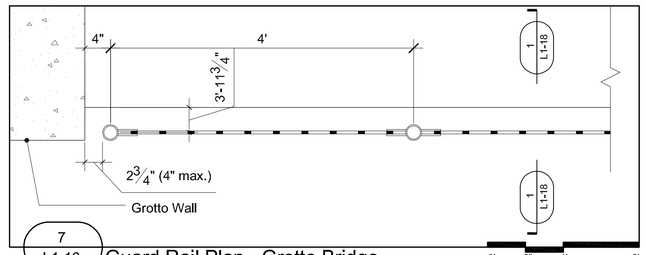
10 L1-16 **Guard Rail Plan - Observation Deck**
REF. 1/L5-01



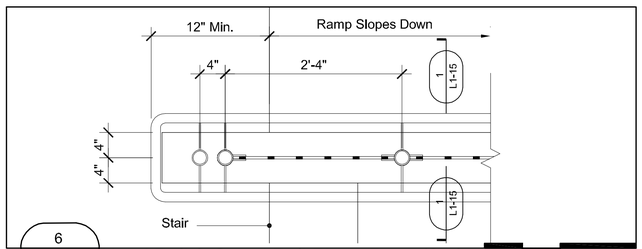
9 L1-16 **Guard Rail Plan - Grotto Street Level**
REF. 2/L9-02



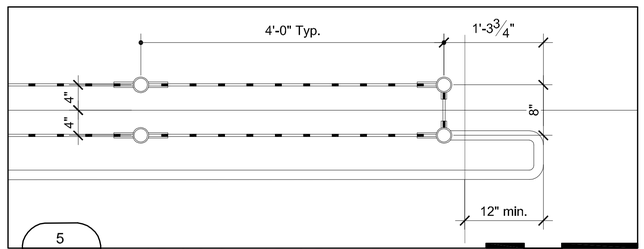
8 L1-16 **Guard Rail Plan - Grotto Street Level**
REF. 2/L9-02



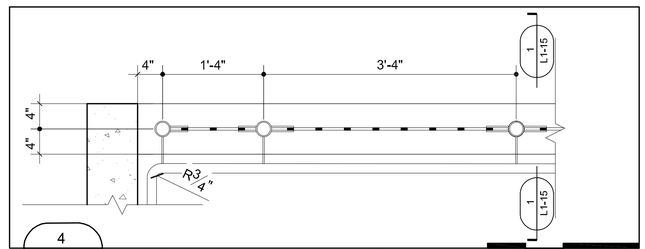
7 L1-16 **Guard Rail Plan - Grotto Bridge**
REF. 1/L6-01, 1/L9-03, 3/L9-04



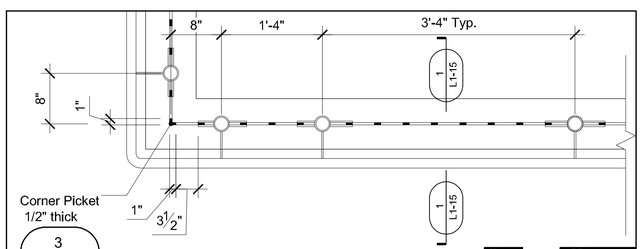
6 L1-16 **Hand Rail & Guard Rail Plan - Ramp/Stair**
REF. 1/L4-02, 1/L4-03



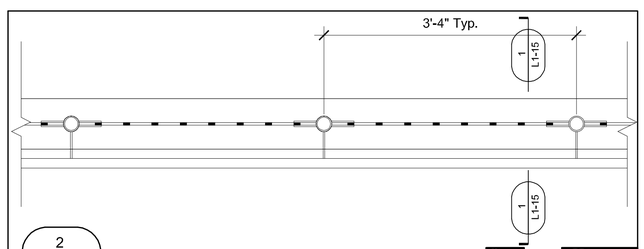
5 L1-16 **Hand Rail & Guard Rail Plan - Ramp**
REF. 1/L9-05



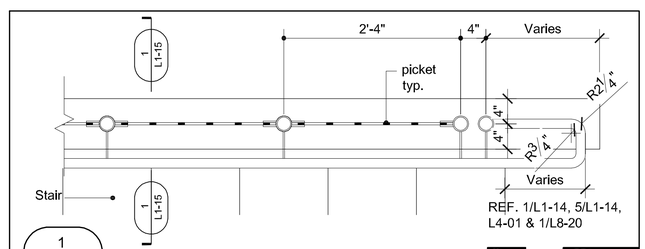
4 L1-16 **Hand Rail & Guard Rail Plan - Ramps**
REF. 1/L4-02, 1/L4-03



3 L1-16 **Hand Rail & Guard Rail Plan - Ramps**
REF. 1/L4-03



2 L1-16 **Hand Rail & Guard Rail Plan - Ramps**
REF. 1/L4-02, 1/L4-03



1 L1-16 **Hand Rail & Guard Rail Plan - Stairs**
REF. 1/L4-01, 2/L4-01, 1/L4-02, 1/L4-03, 1/L8-20, 1/L9-04, 2/L9-04

REF. 1/L1-14, 5/L1-14, L4-01 & 1/L8-20

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

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5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

METAL GUARD RAIL AND HAND RAIL PLAN DETAILS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

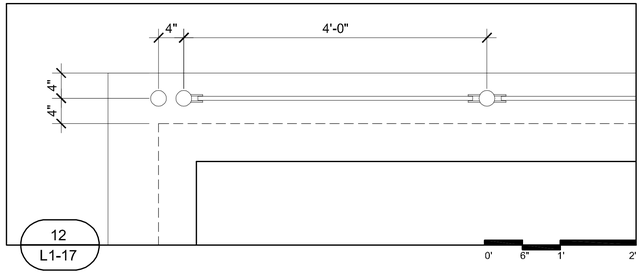
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5029-01	KWS	MM	NOV 03, 2009 BID	PW # 2009-04	L1-16

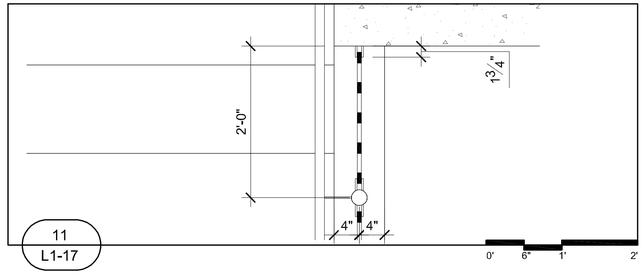
PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

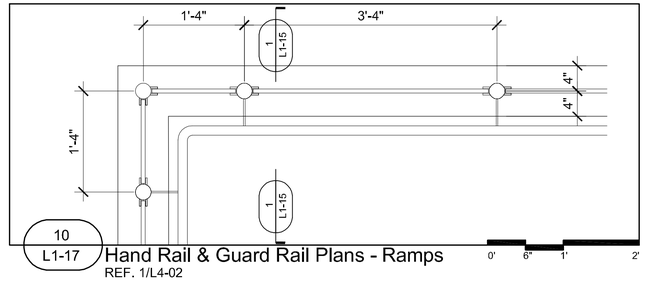




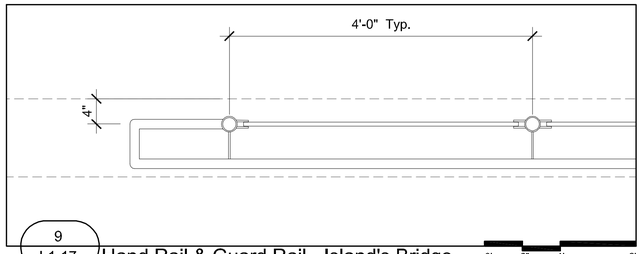




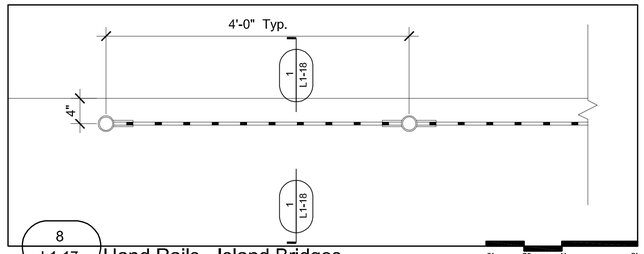




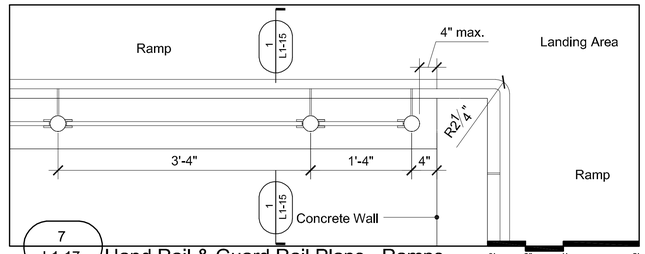
Hand Rail & Guard Rail Plans - Ramps
REF. 1/L4-02



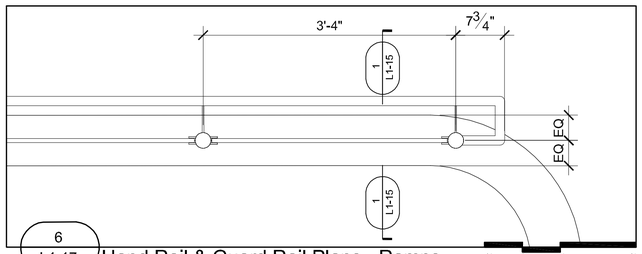
Hand Rail & Guard Rail - Island's Bridge
REF. 1/L6-02



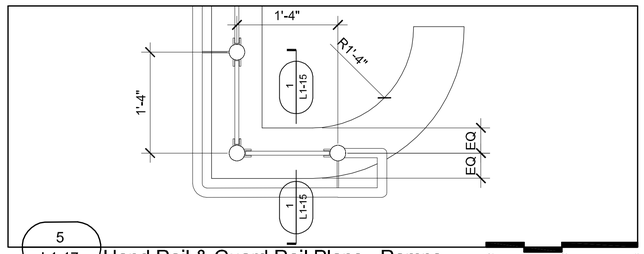
Hand Rails - Island Bridges
REF. 1/L6-01, 1/L6-02, 1/L9-03, 1/L9-05, 2/L9-05



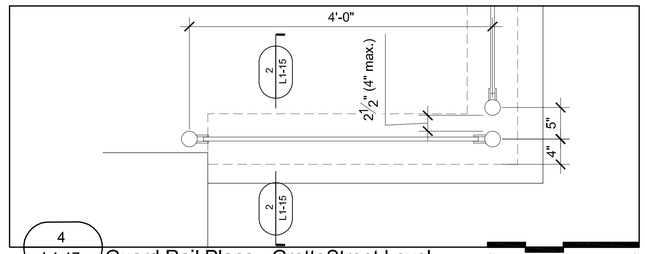
Hand Rail & Guard Rail Plans - Ramps
REF. 1/L4-02, 1/L4-03



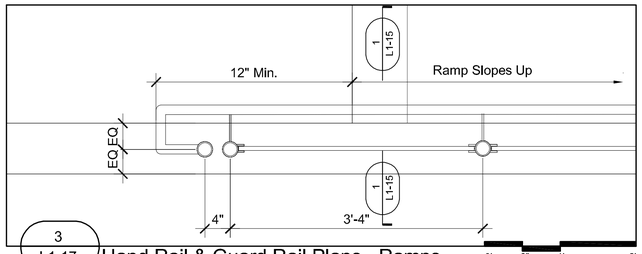
Hand Rail & Guard Rail Plans - Ramps
REF. 1/L4-02



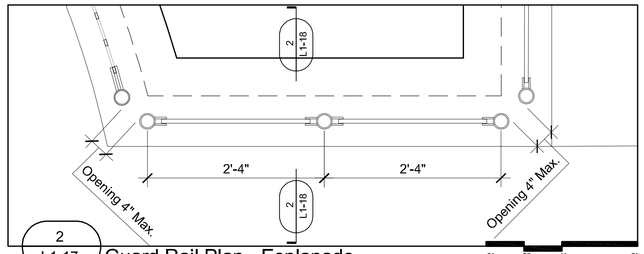
Hand Rail & Guard Rail Plans - Ramps
REF. 1/L4-02



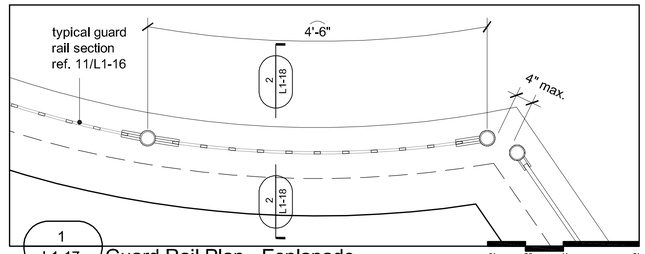
Guard Rail Plans - GrottoStreet Level
REF. 2/L9-02



Hand Rail & Guard Rail Plans - Ramps
REF. 1/L4-03



Guard Rail Plan - Esplanade
REF. 2/L9-05



Guard Rail Plan - Esplanade
REF. 1/L9-05

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

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9. Concrete Paving D
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11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
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13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
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16. Atrium Grate
17. Paver Grate
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19. Metal Trellis
20. Trellis Above
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23. Metal Handrail
24. Metal Guard Rail and Handrail
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26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
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33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
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50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

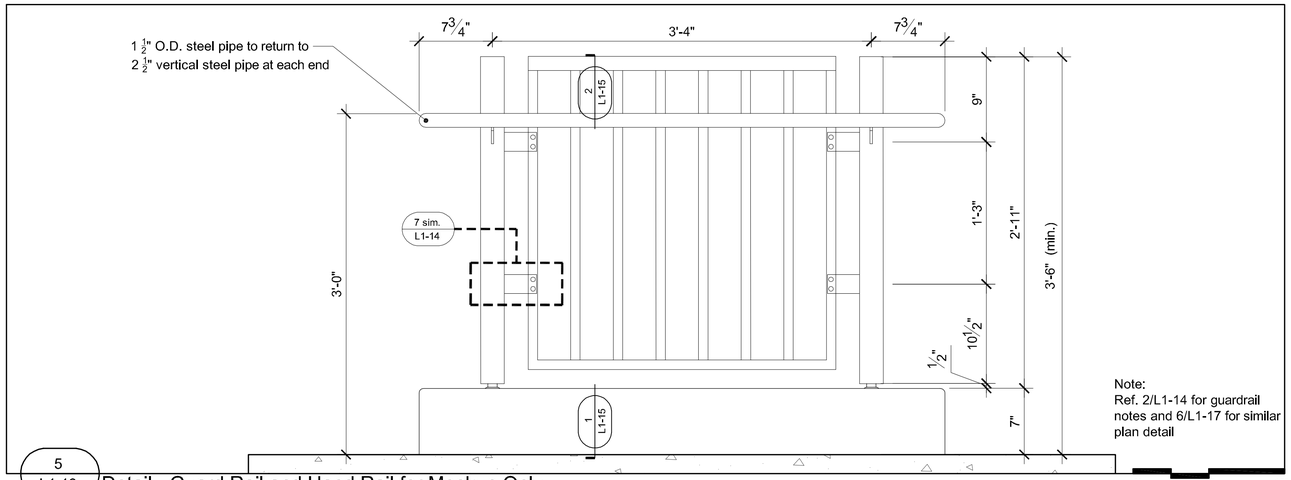
METAL GUARD RAIL AND HAND RAIL PLAN DETAILS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	MM	NOV 03, 2009	PW # 2009-04	L1-17

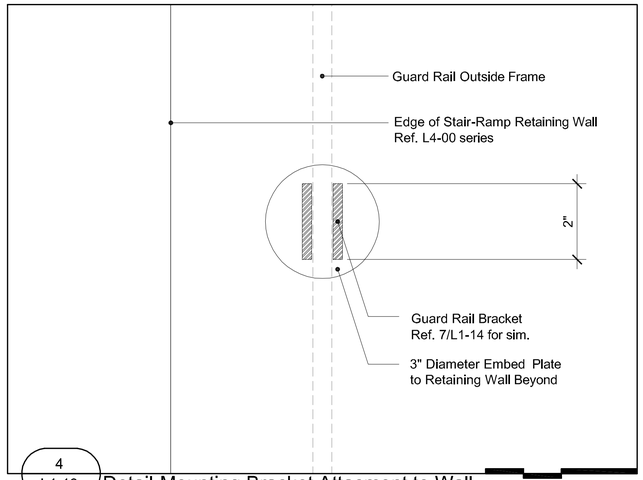
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PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



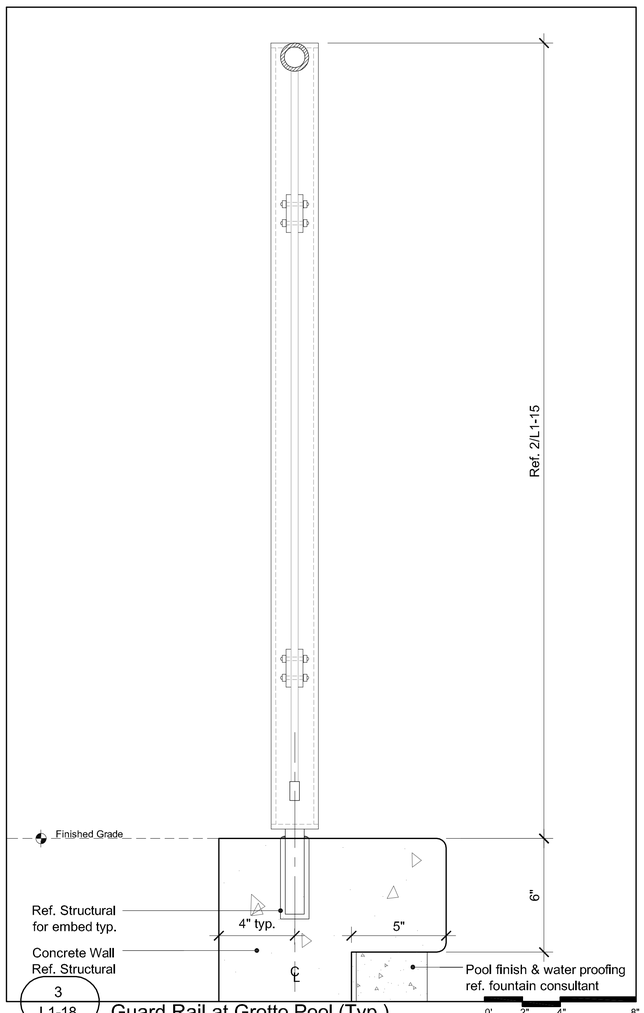
5 L1-18 Detail - Guard Rail and Hand Rail for Mockup Only

Scale: 1 1/2" = 1'-0"



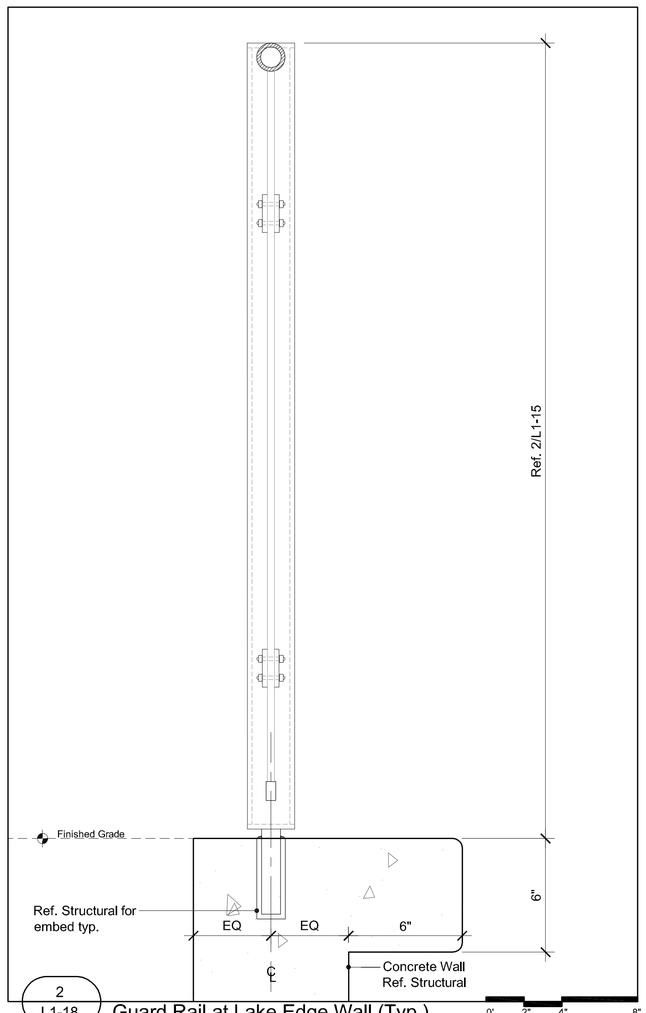
4 L1-18 Detail-Mounting Bracket Attacment to Wall

Scale: 6" = 1'-0"



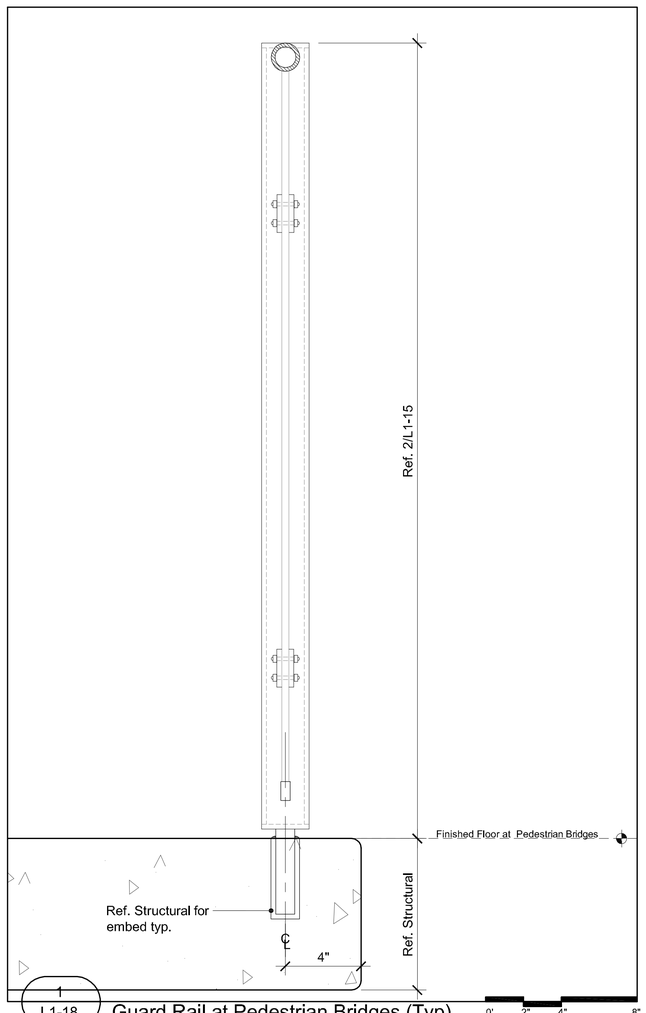
3 L1-18 Guard Rail at Grotto Pool (Typ.)

Scale: 3" = 1'-0"



2 L1-18 Guard Rail at Lake Edge Wall (Typ.)

Scale: 3" = 1'-0"



1 L1-18 Guard Rail at Pedestrian Bridges (Typ)

Scale: 3" = 1'-0"

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

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5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
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12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
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16. Atrium Grate
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18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
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23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
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29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
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34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
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66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

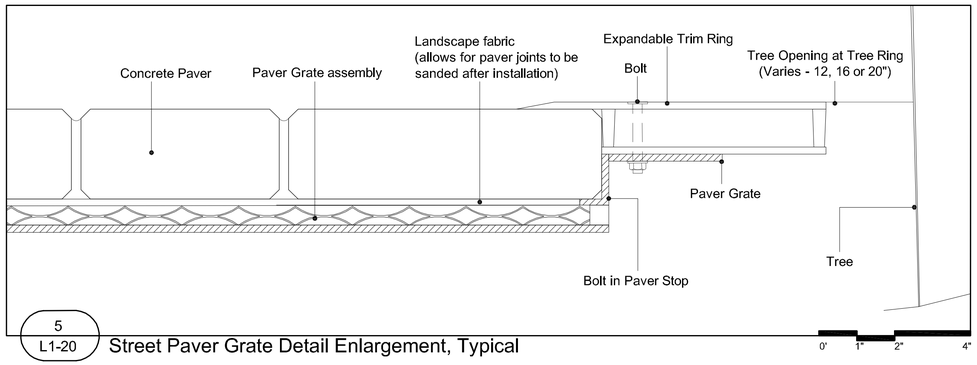
TYPICAL METAL GUARD RAIL-HANDRAIL DETAILS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

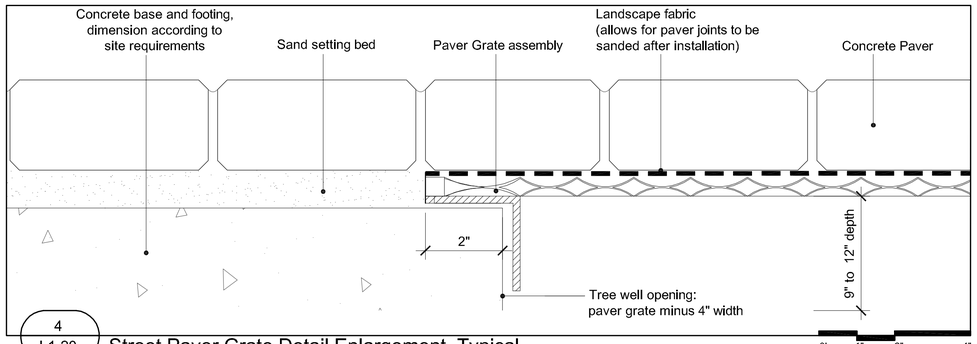
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BID

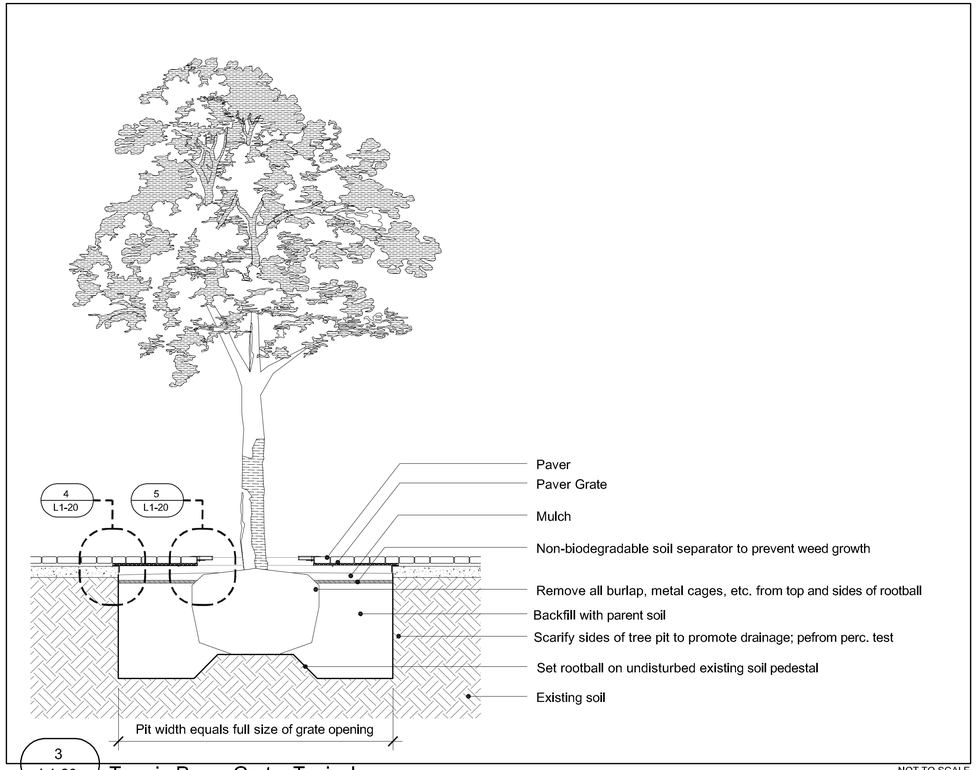
PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



5 L1-20 Street Paver Grate Detail Enlargement, Typical

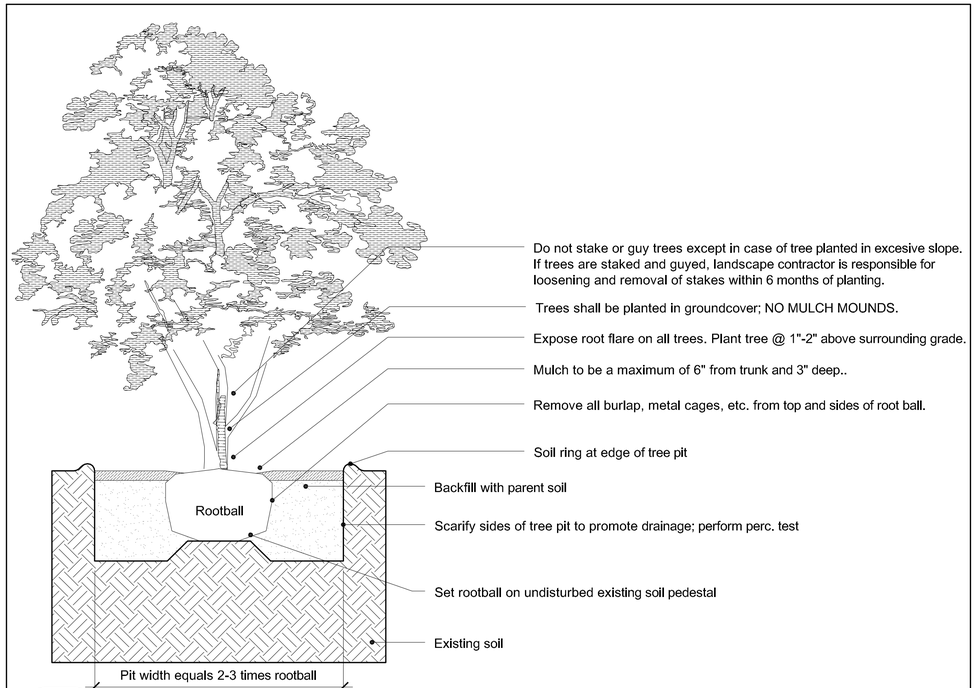


4 L1-20 Street Paver Grate Detail Enlargement, Typical



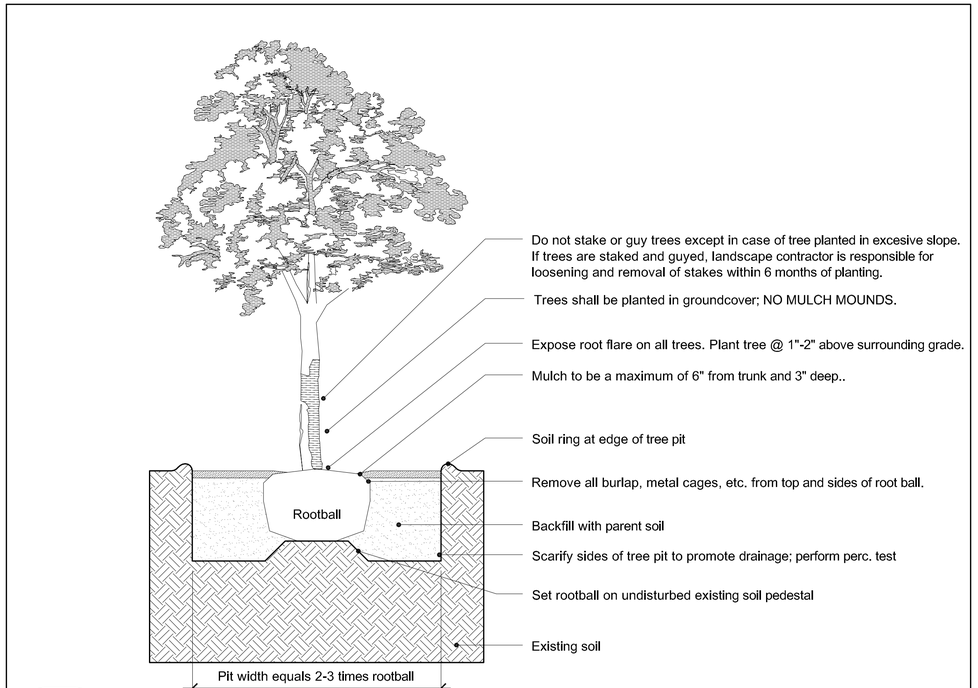
3 L1-20 Tree in Paver Grate, Typical

NOT TO SCALE



2 L1-20 Multi-Trunk Tree on Turf on Grade

NOT TO SCALE



1 L1-20 Single Trunk Tree on Turf on Grade

NOT TO SCALE

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

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9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
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34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

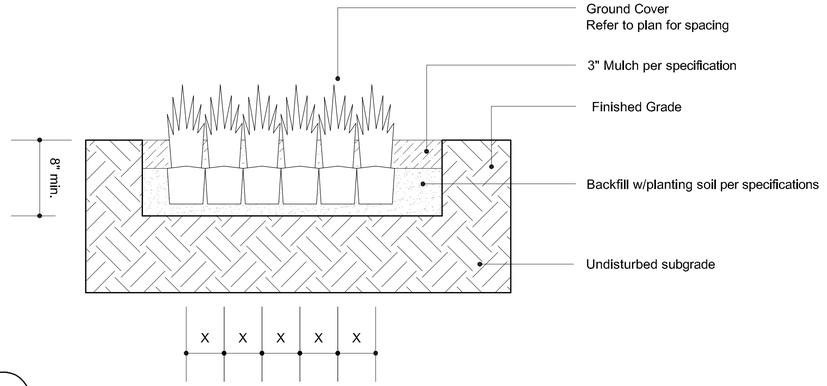
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

TYPICAL SOFTSCAPE DETAILS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

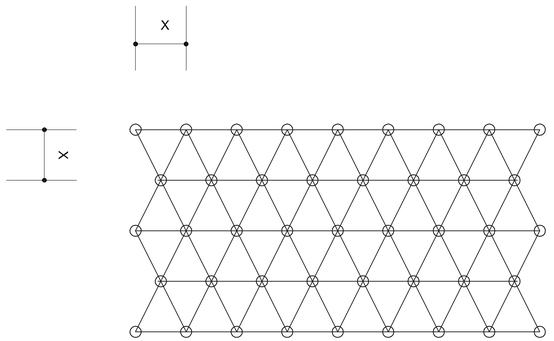
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PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



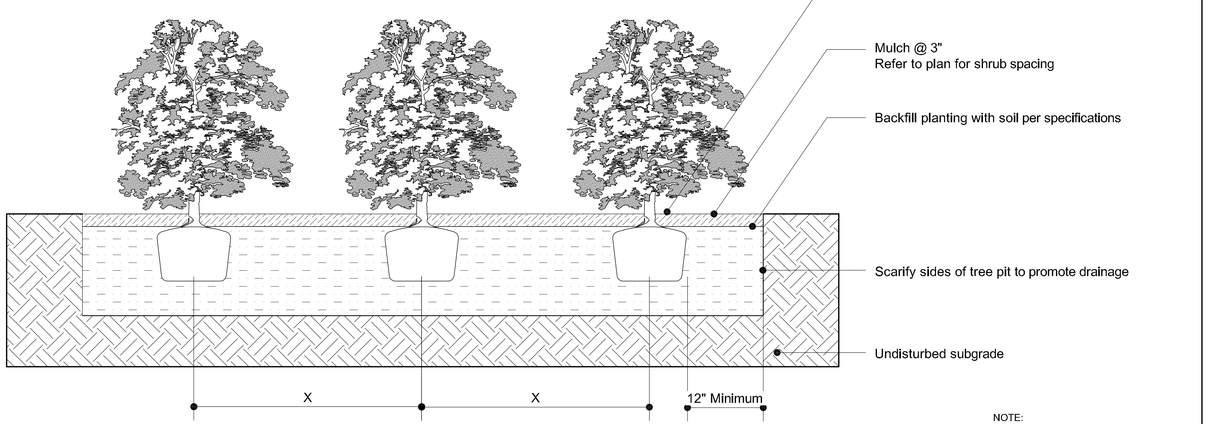
4 L1-21 Groundcover Section, Typical

NOT TO SCALE



3 L1-21 Groundcover Plan, Typical

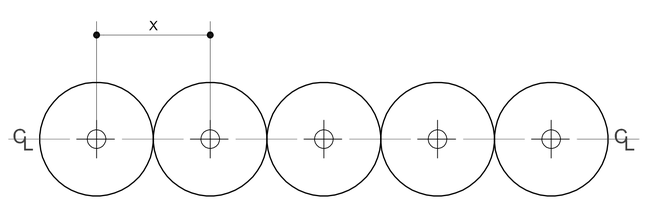
NOT TO SCALE



NOTE:
REFER TO PLANT LIST FOR SPACING "X"

2 L1-21 Shrub Section, Typical

NOT TO SCALE



NOTE:
REFER TO PLANT LIST FOR SPACING "X"

1 L1-21 Shrub Plan, Typical

NOT TO SCALE

GENERAL NOTE

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Refer to sheets L1-12 & L1-13 for furniture and park element details.

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17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
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23. Metal Handrail
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39. Concrete Wall Beyond
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42. Access Panel - Reference structural
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63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

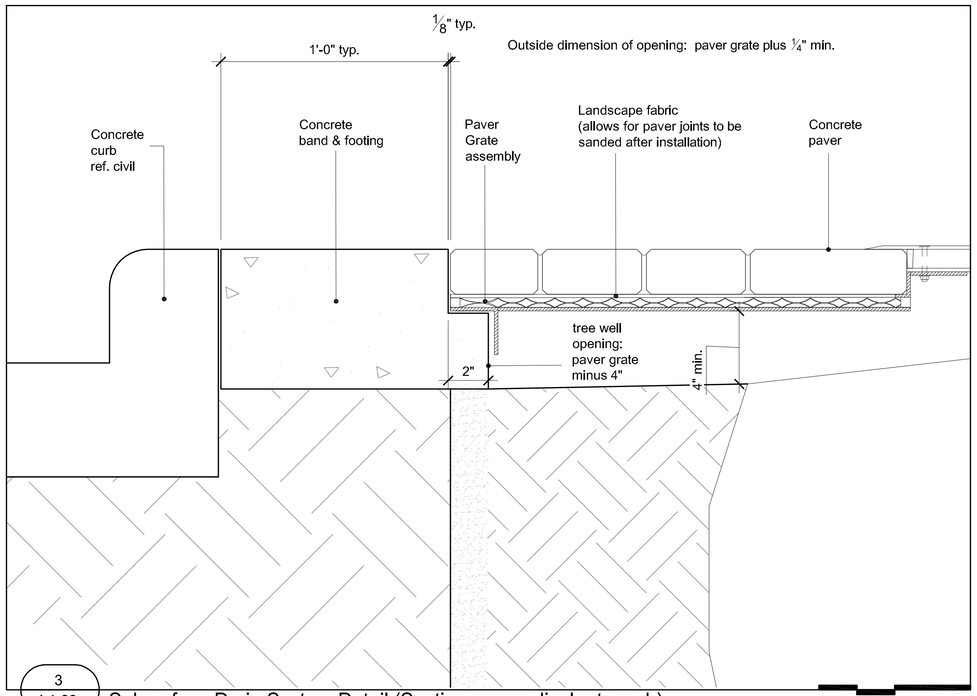
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

TYPICAL SOFTSCAPE DETAILS

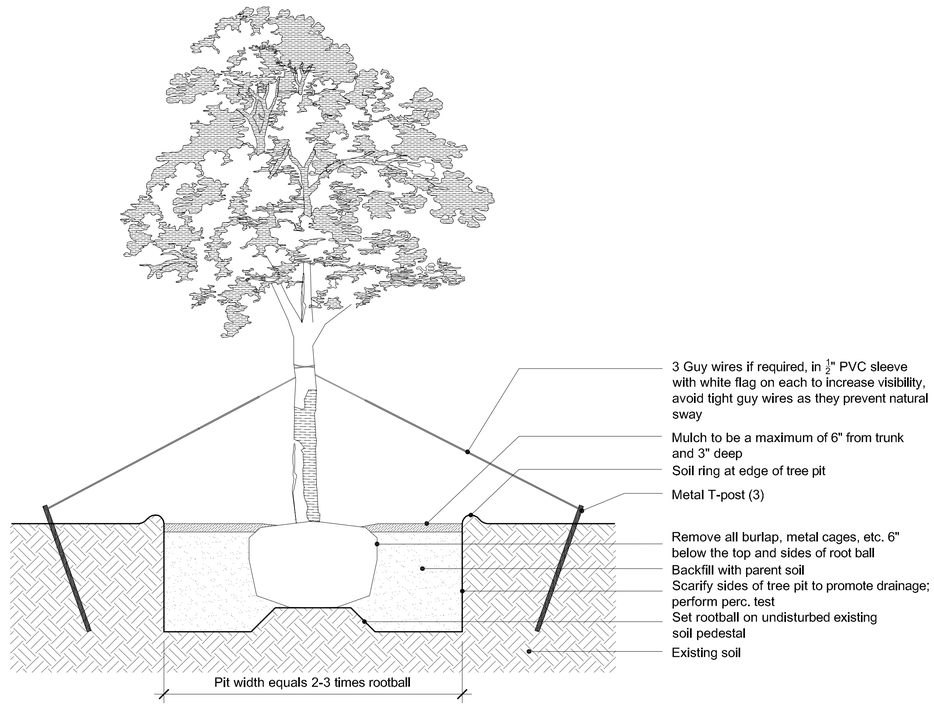
KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

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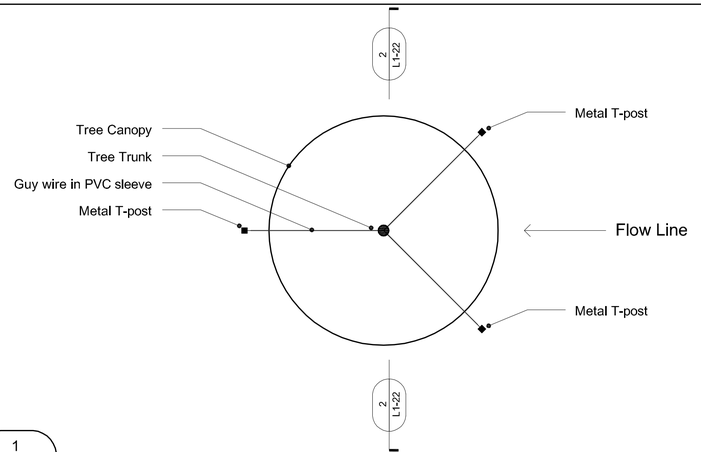
PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



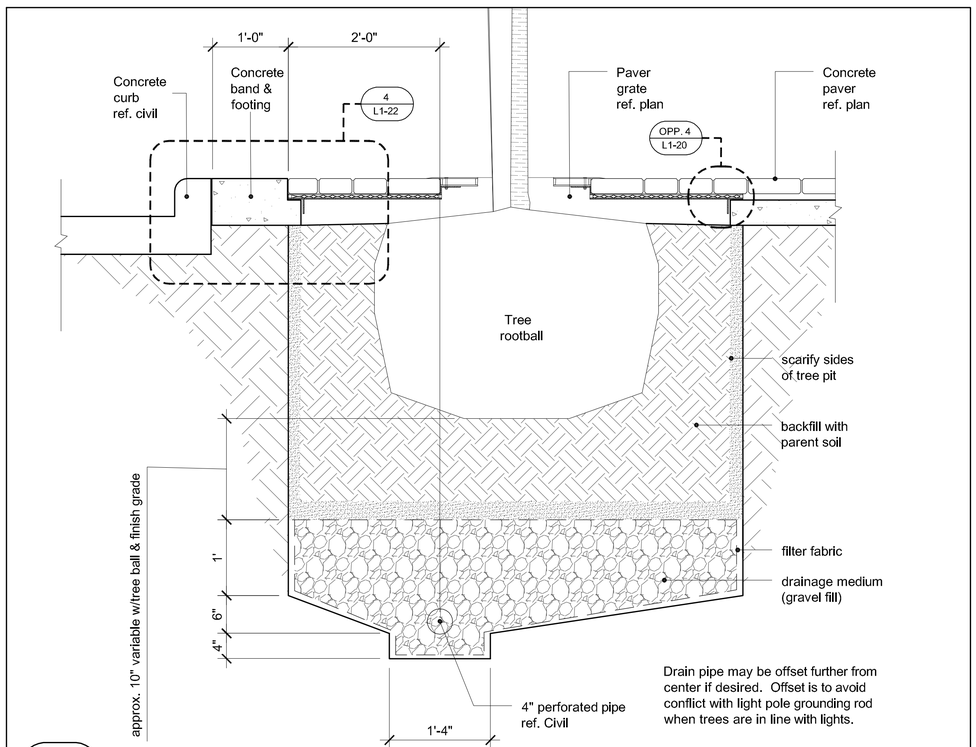
3
L1-22
Subsurface Drain System Detail (Section perpendicular to curb)



2
L1-22
Tree Staking Detail, Typical
NOT TO SCALE



1
L1-22
Tree Staking Plan, Typical
NOT TO SCALE



3
L1-22
Subsurface Drain System Detail (Section perpendicular to curb)

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

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Addison
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

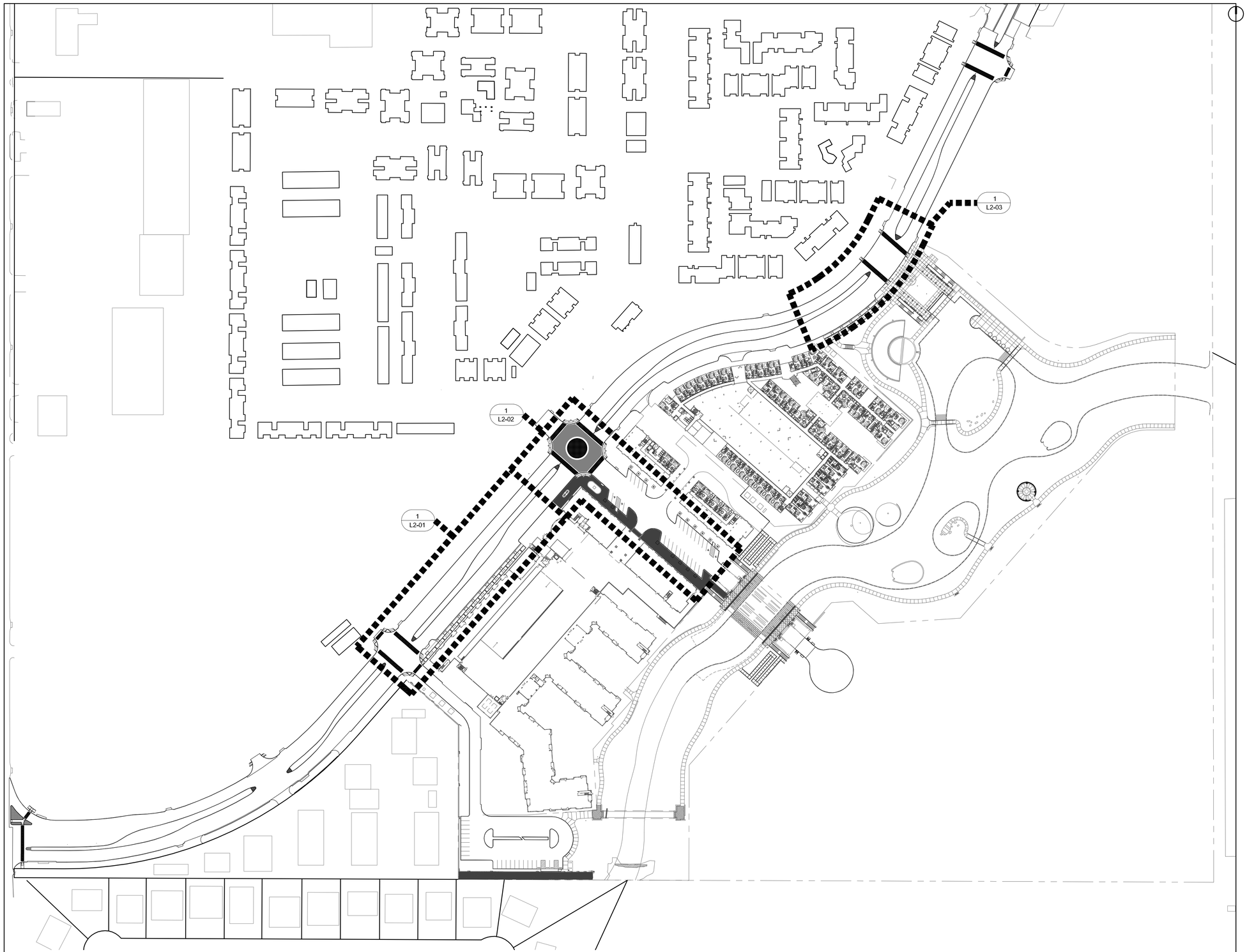
TYPICAL SOFTSCAPE DETAILS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	MM	NOV 03, 2009	PW # 2009-04	L1-22

BID

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



1
L2-00 Streetscape & Infrastructure Furnishings & Elements Cover Sheet

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

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14. Transformer/Switchgear: Ref. Civil
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39. Concrete Wall Beyond
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41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
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63. Fountain Pool: Ref. Fountain Consultant
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69. Litter Receptacle
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LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

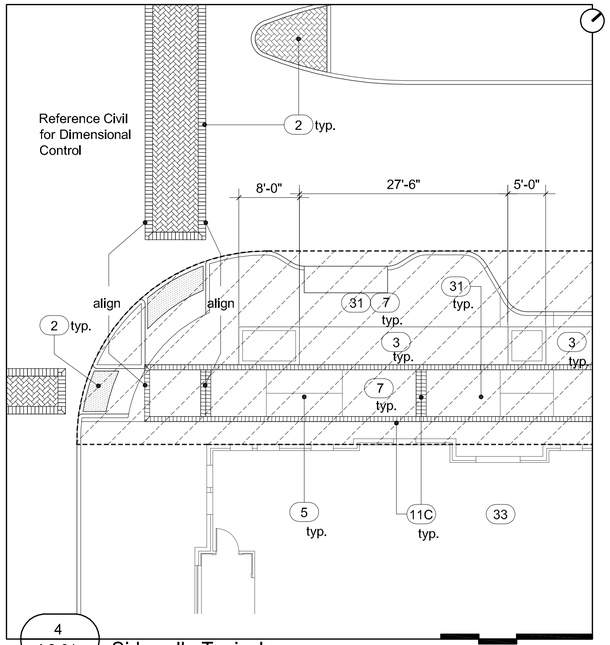
STREETSCAPE & INFRASTRUCTURE FURNISHINGS & ELEMENTS COVER SHEET

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	MM	NOV 03, 2009	PW # 2009-04	L2-00

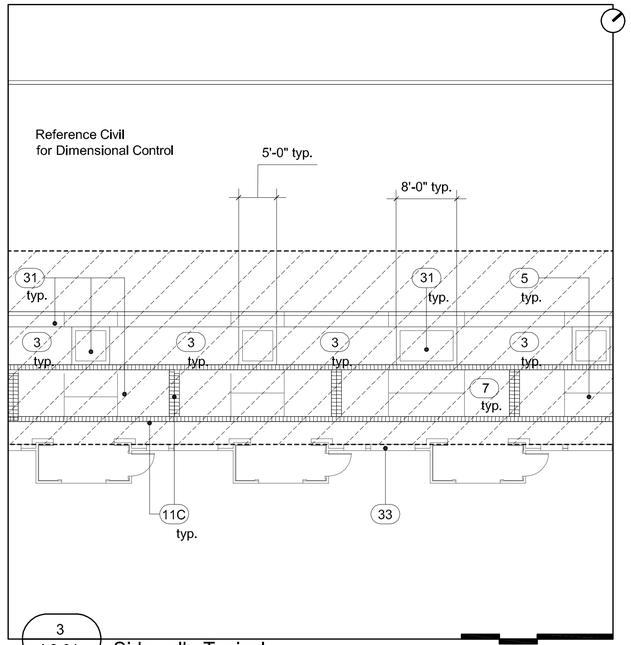
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PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



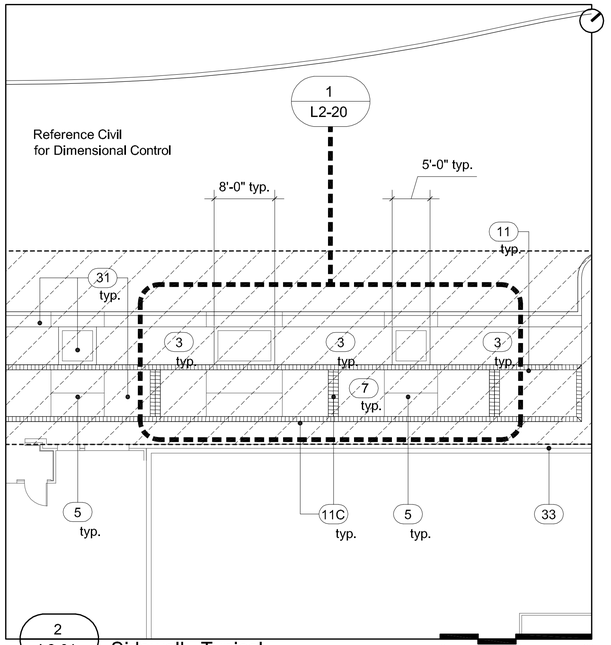
4 L2-01 Sidewalk, Typical

0' 5' 10' 20'



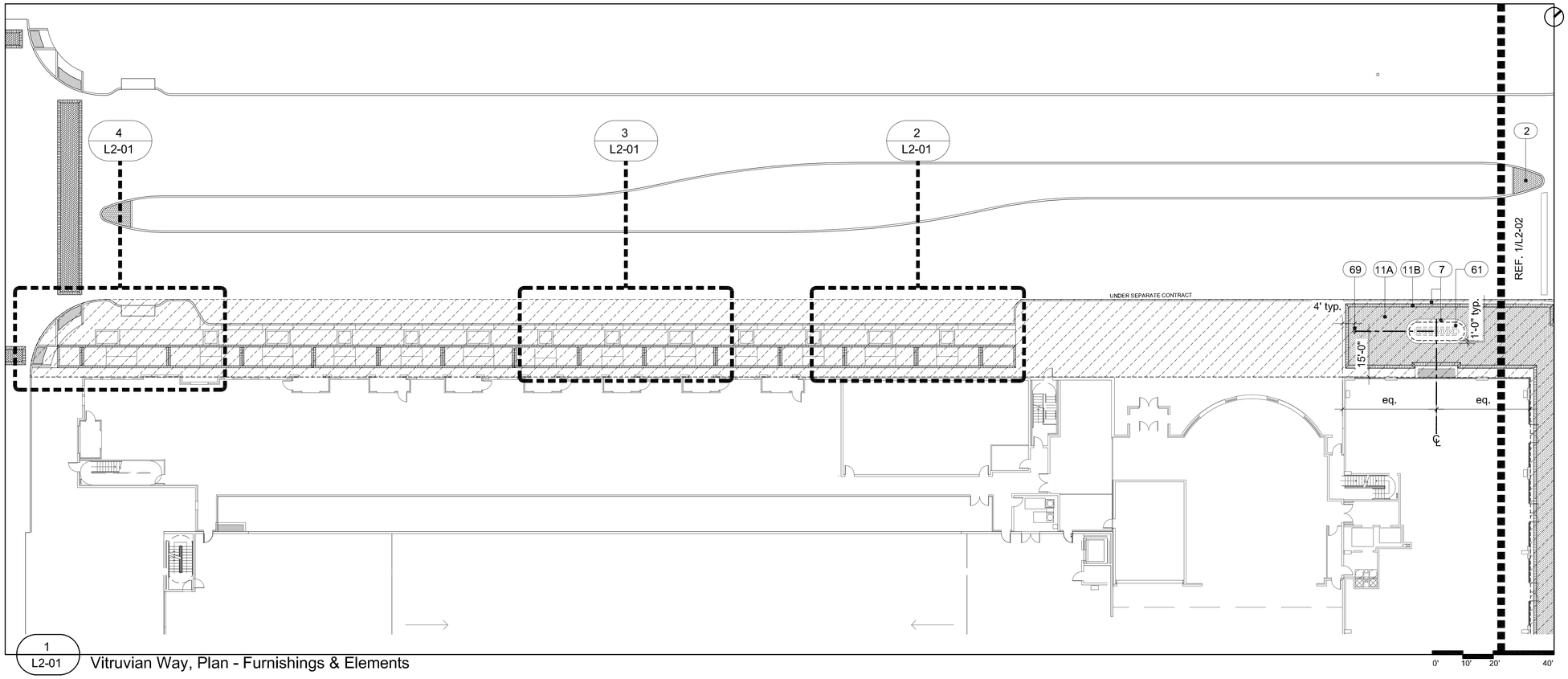
3 L2-01 Sidewalk, Typical

0' 5' 10' 20'



2 L2-01 Sidewalk, Typical

0' 5' 10' 20'



1 L2-01 Vitruvian Way, Plan - Furnishings & Elements

0' 10' 20' 40'

GENERAL NOTE

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LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT KEVIN W. SLOAN 2296 STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

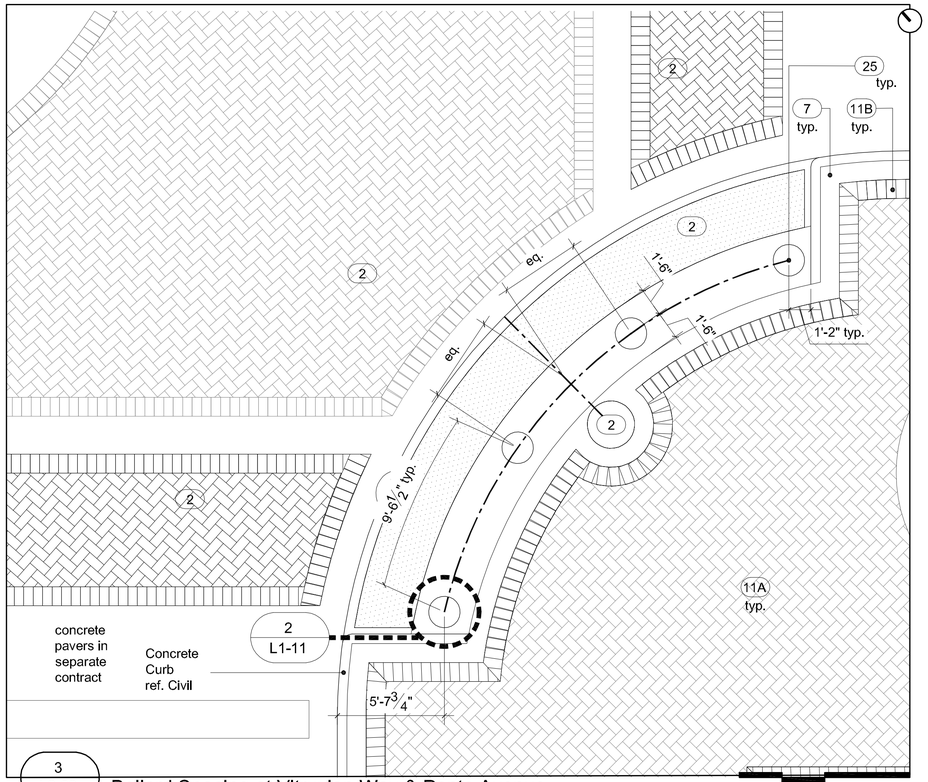
VITRUVIAN WAY
PLAN - FURNISHINGS & ELEMENTS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

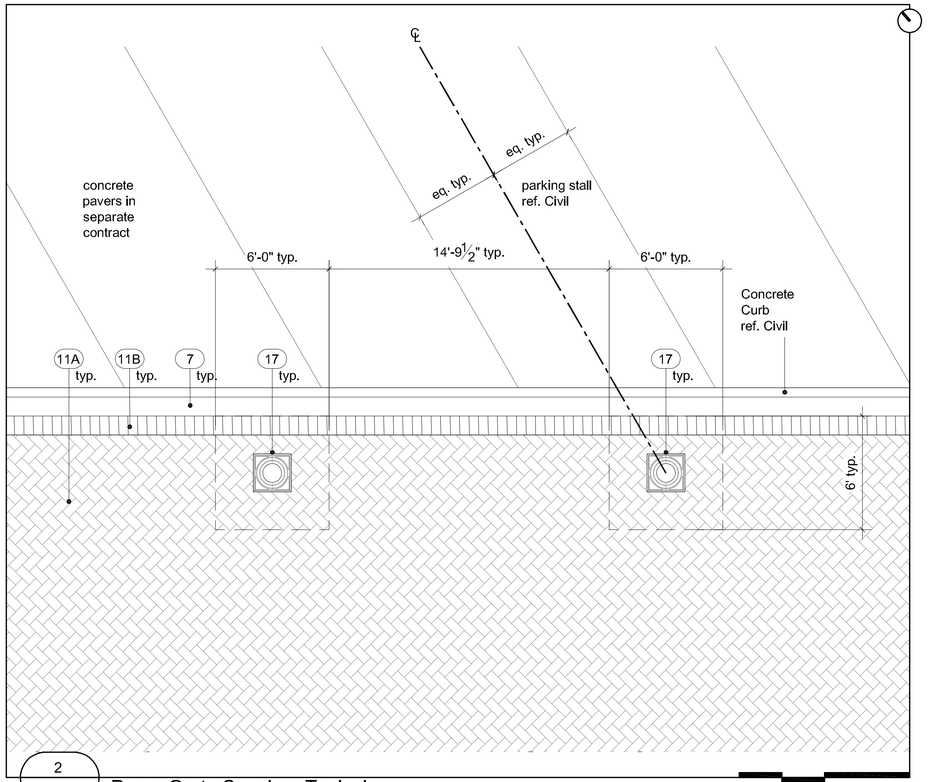
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BID

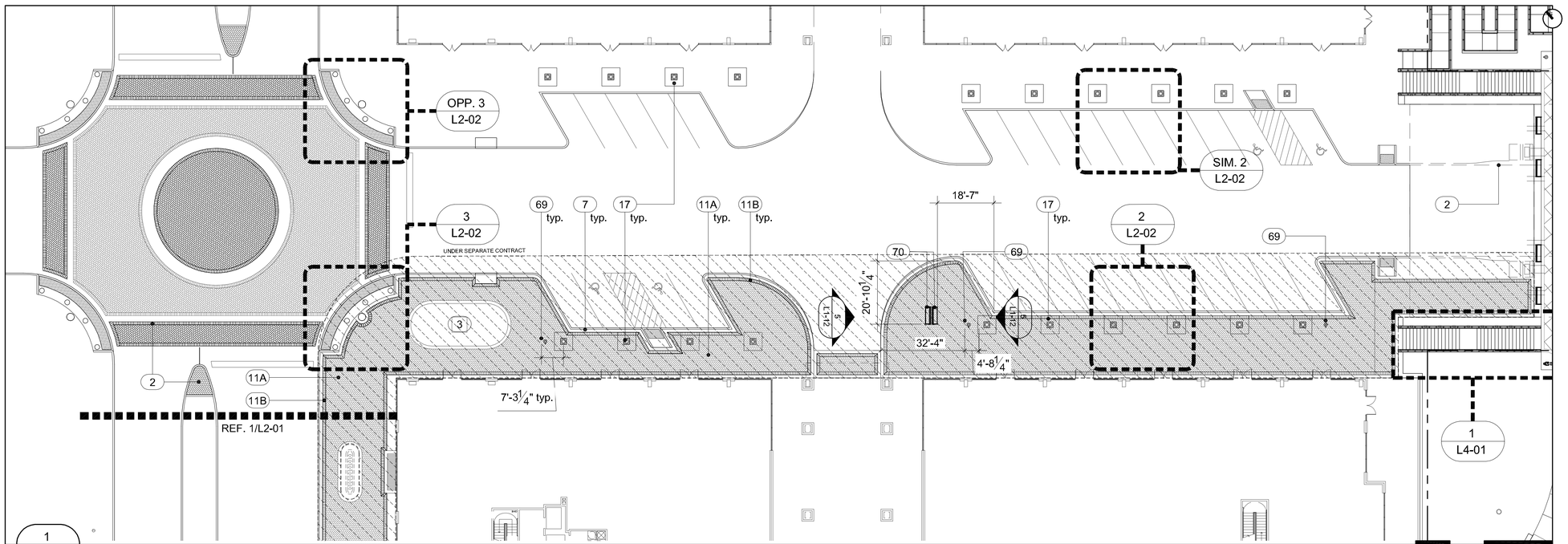
PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



3 L2-02 Bollard Spacing at Vitruvian Way & Ponte Avenue



2 L2-02 Paver Grate Spacing, Typical



1 L2-02 Ponte Avenue, Plan - Furnishings & Elements

GENERAL NOTE

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- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
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- SE-1 Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT KEVIN W. SLOAN 2296 STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

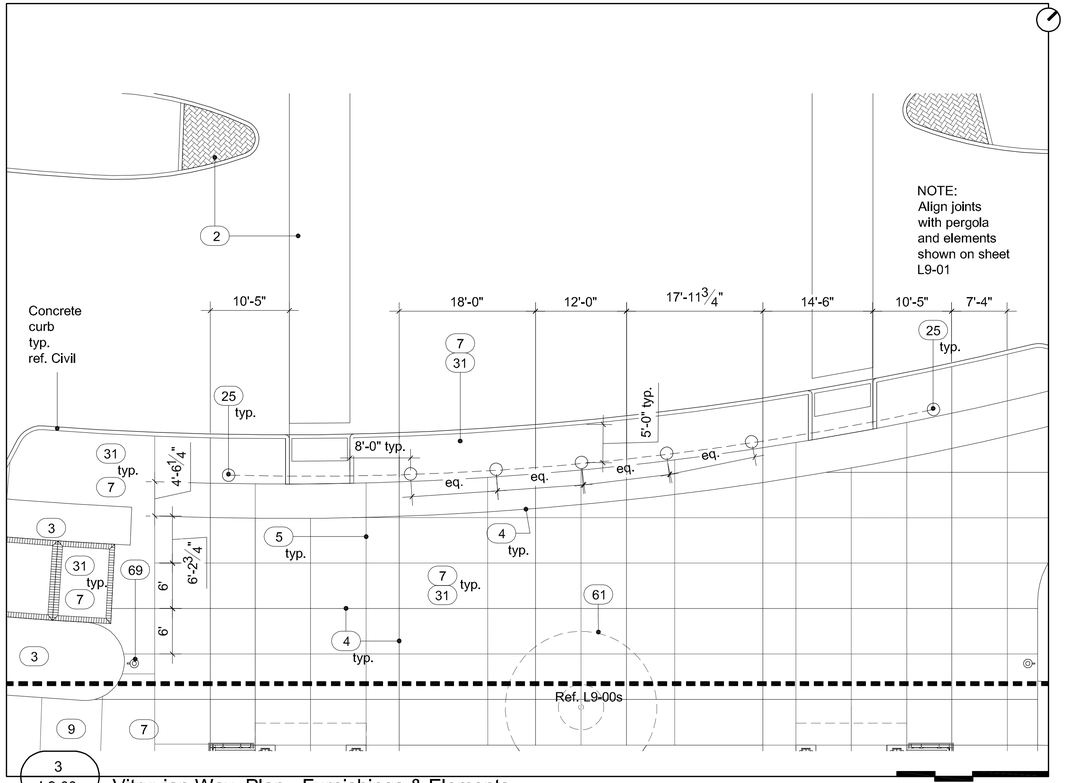
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

PONTE AVENUE
PLAN - FURNISHINGS & ELEMENTS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

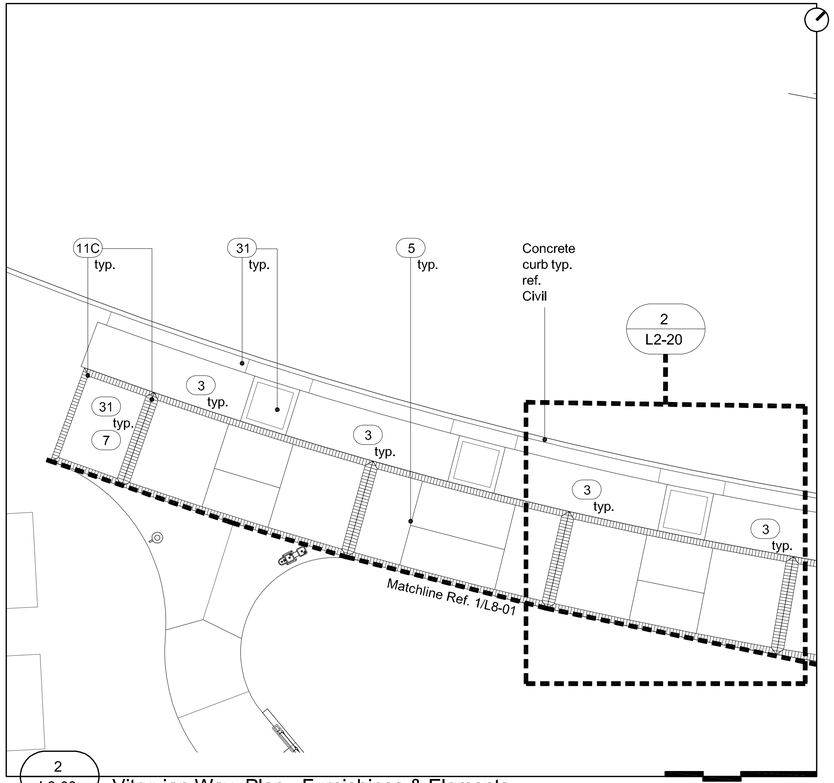
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L2-02

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



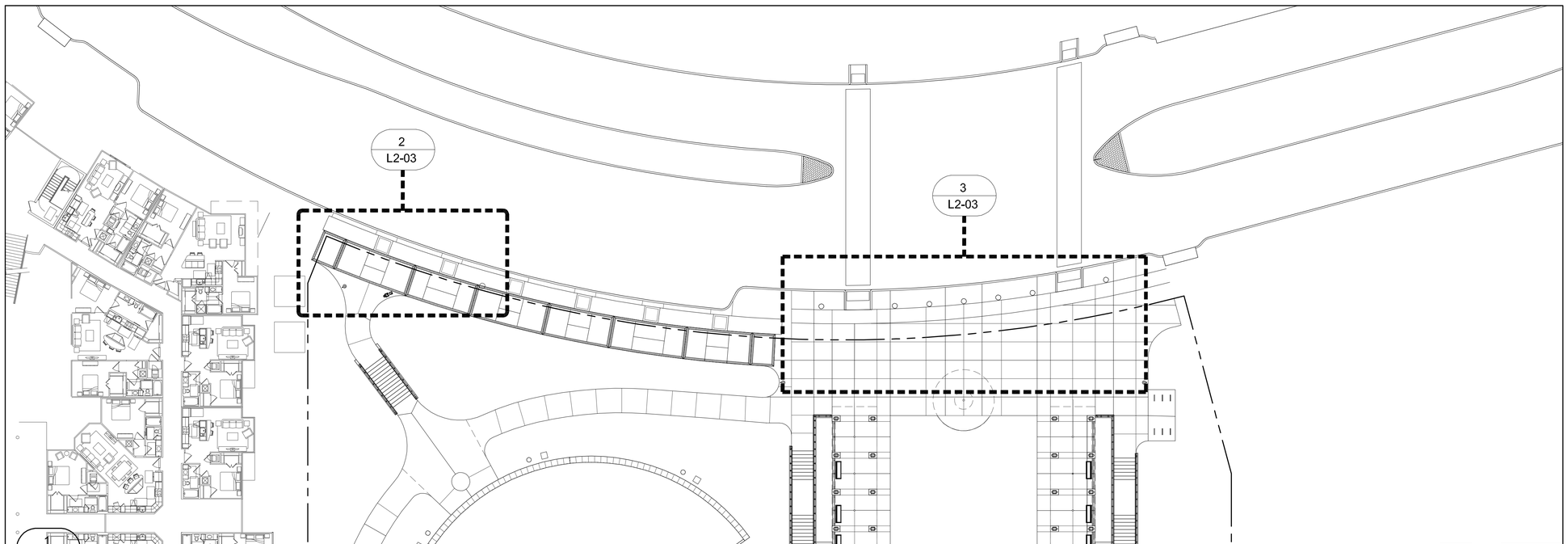
3 L2-03 Vitruvian Way, Plan - Furnishings & Elements

0' 5' 10' 20'



2 L2-03 Vitruvian Way, Plan - Furnishings & Elements

0' 4' 8' 16'



1 L2-03 Vitruvian Way, Plan - Furnishings & Elements

0' 15' 30' 60'

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
3. Planting Area: Ref. L10-00's & L11-00's
4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-1 Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

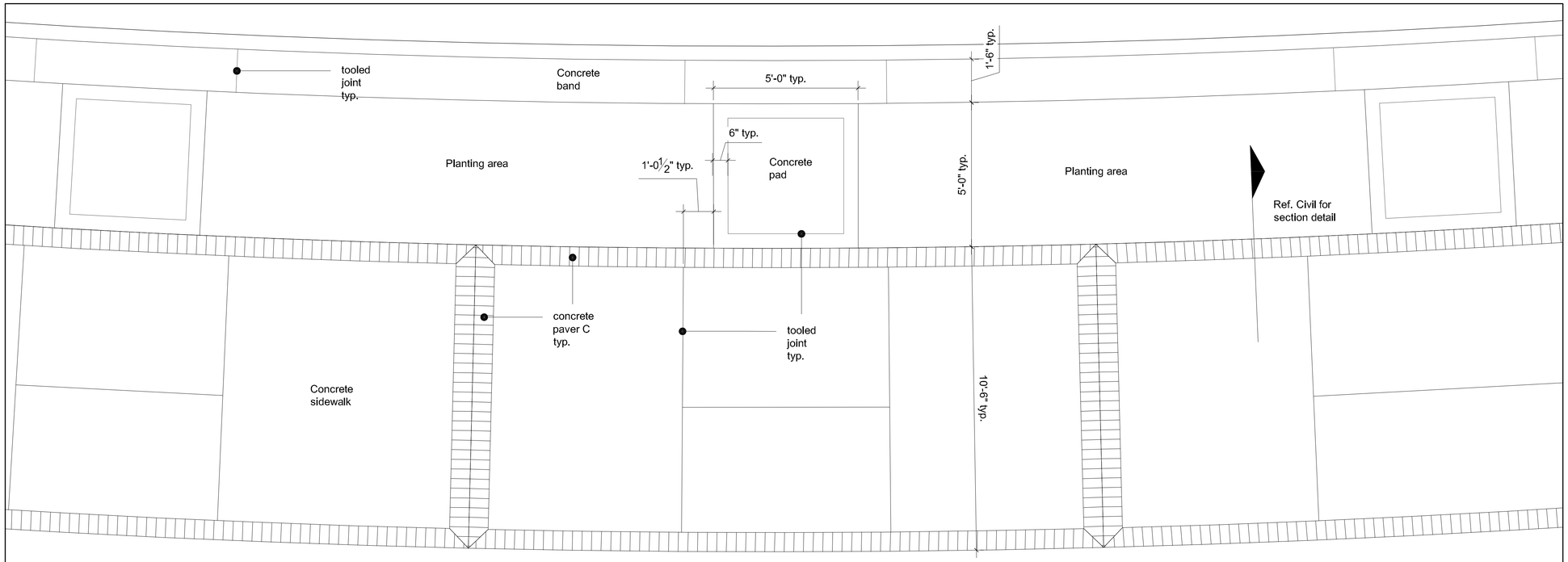
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

VITRUVIAN WAY
PLAN - FURNISHINGS & ELEMENTS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

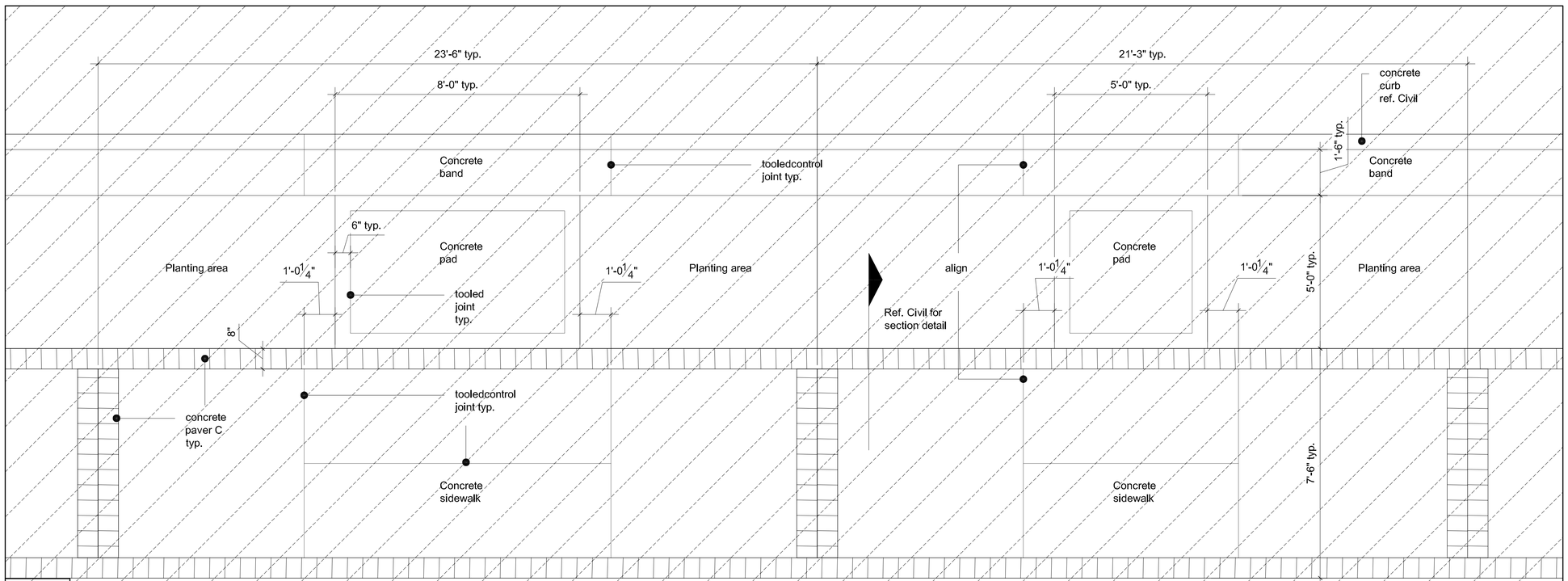
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	MM	NOV 03, 2009 BID	PW # 2009-04	L2-03

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



1
L2-20 Vitruvian Way - Sidewalk Paver Plan detail

0' 1' 2' 4'



1
L2-20 Vitruvian Way - Sidewalk Paver Plan detail

0' 1' 2' 4'

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
3. Planting Area: Ref. L10-00's & L11-00's
4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT KEVIN W. SLOAN 2296 STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

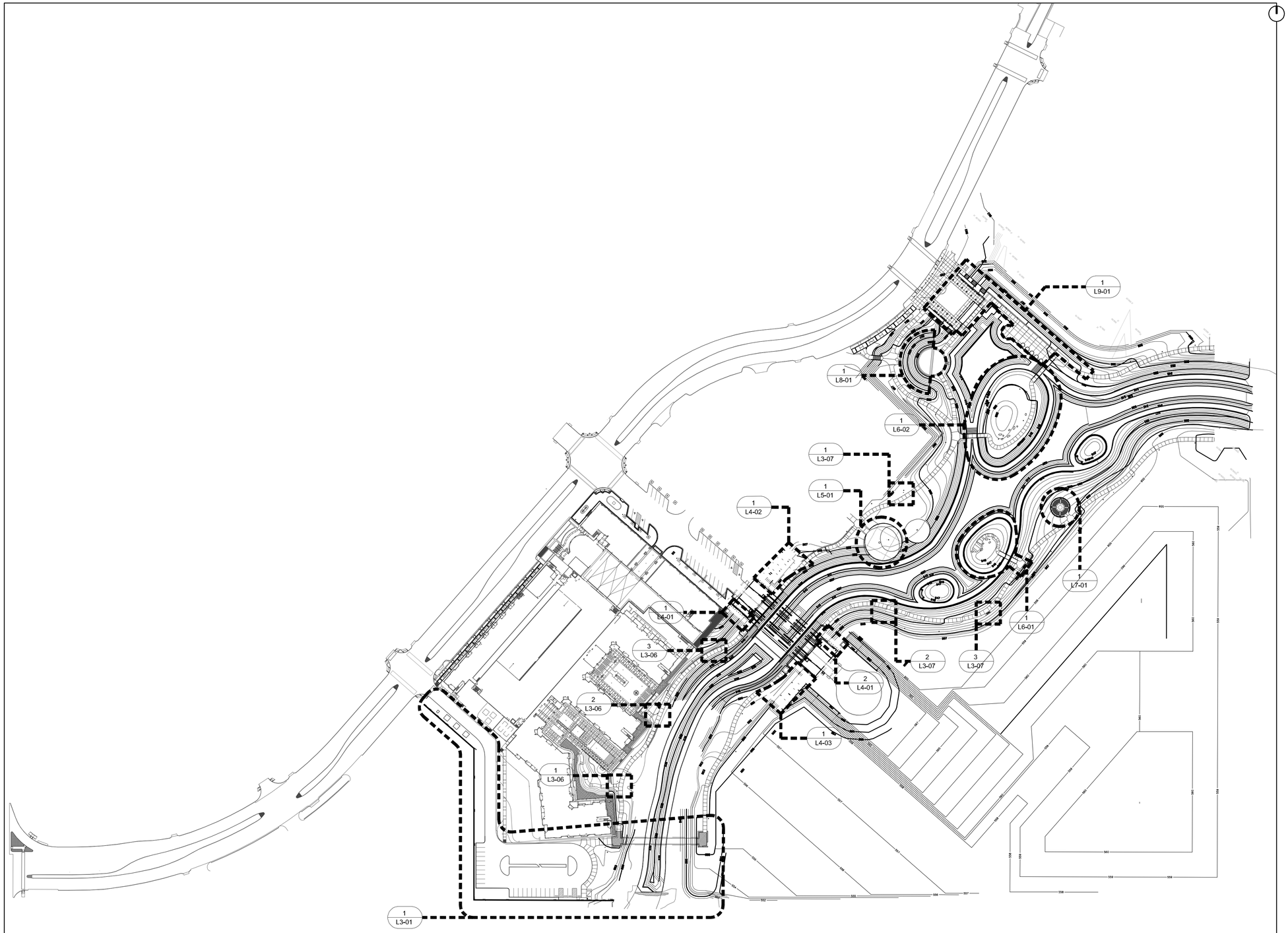
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

VITRUVIAN WAY SIDEWALK PAVER PLAN DETAIL

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	MM	NOV 03, 2009 BID	PW # 2009-04	L2-20

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



0' 50' 100' 200'

1
L3-00 Vitruvian Park Furnishings & Elements Cover Sheet

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

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5. Tooled Control Joint: Ref. Civil for detail
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11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
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14. Transformer/Switchgear: Ref. Civil
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17. Paver Grate
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20. Trellis Above
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23. Metal Handrail
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29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
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62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
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67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT KEVIN W. SLOAN 2296 STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

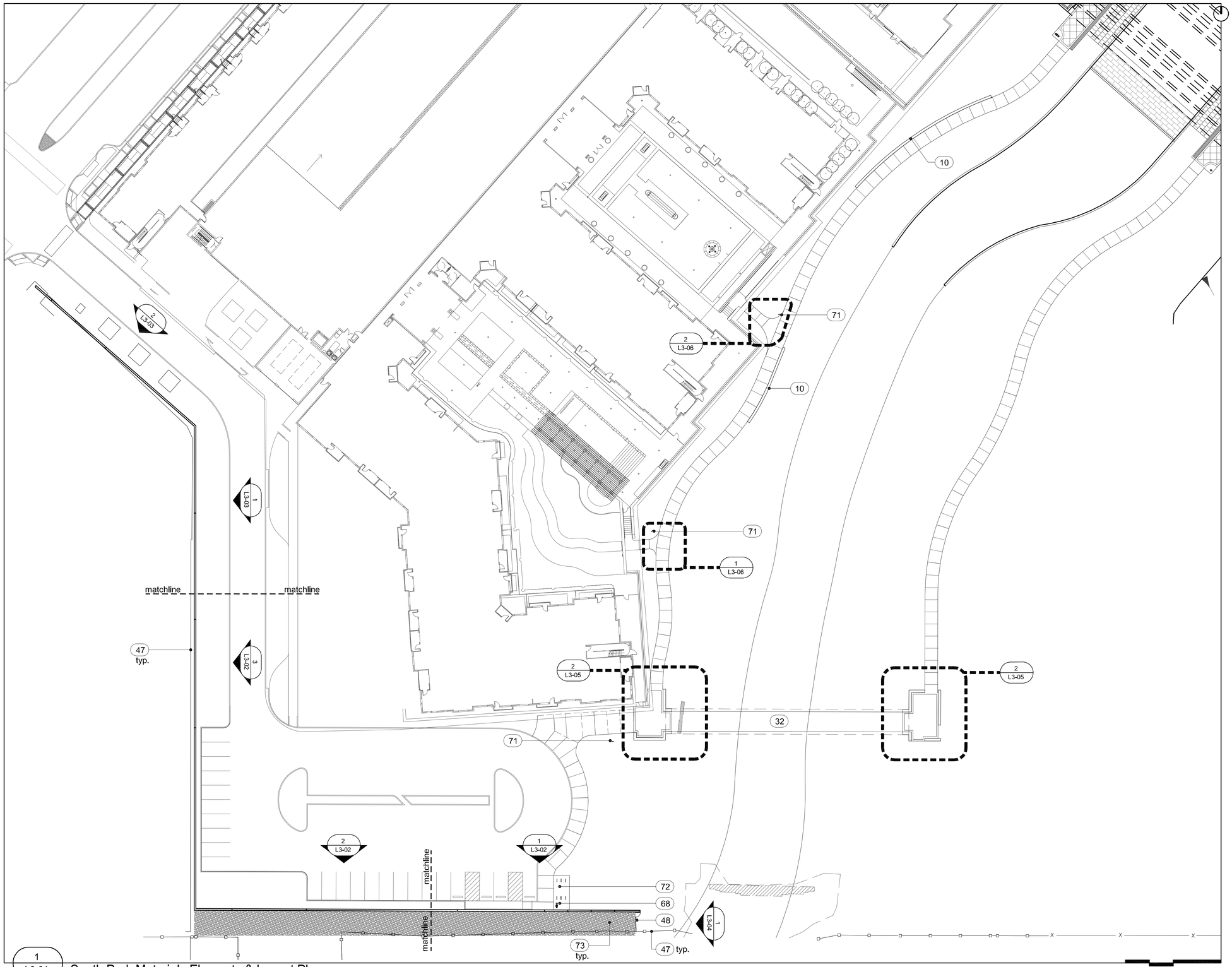
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

VITRUVIAN PARK - FURNISHINGS & ELEMENTS COVER SHEET

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	MM	NOV 03, 2009 BID	PW # 2009-04	L3-00

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



1 L3-01 South Park Materials Elements & Layout Plan

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
3. Planting Area: Ref. L10-00's & L11-00's
4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
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17. Paver Grate
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24. Metal Guard Rail and Handrail
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26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
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LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT KEVIN W. SLOAN 2296 STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

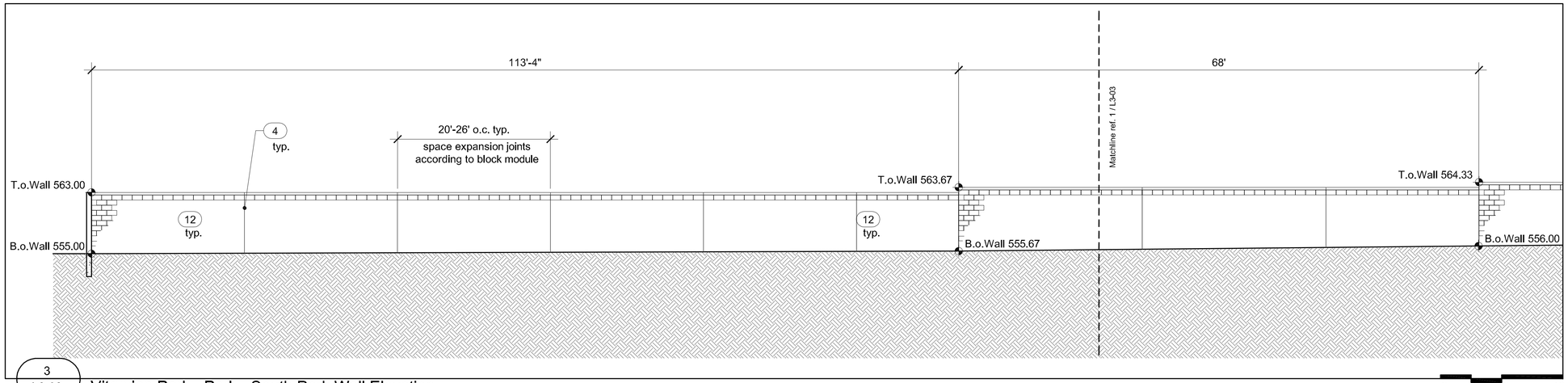
VITRUVIAN PARK - FURNISHINGS & ELEMENTS PLAN

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	MM	NOV 03, 2009	PW # 2009-04	L3-01

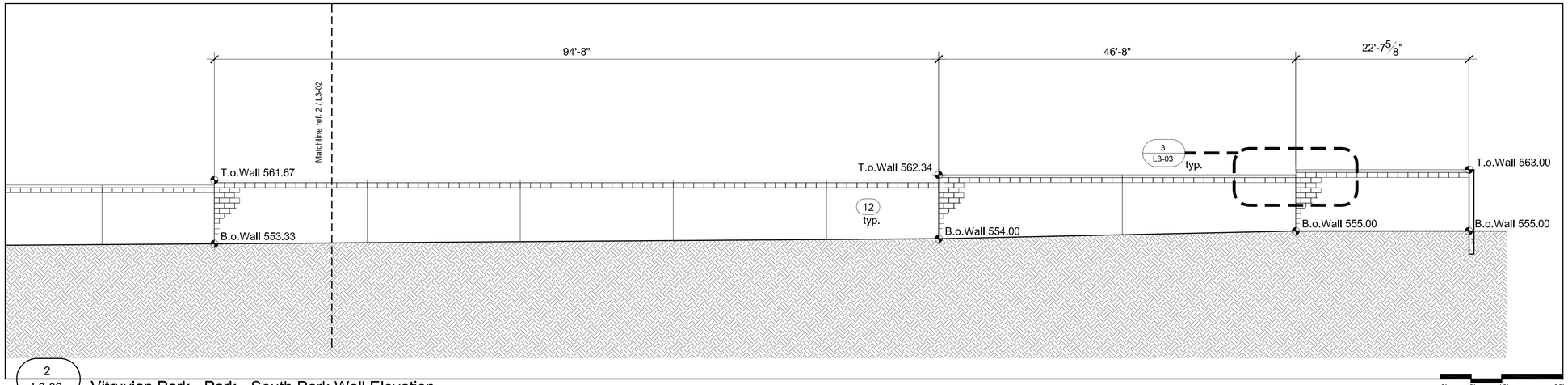
BID

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



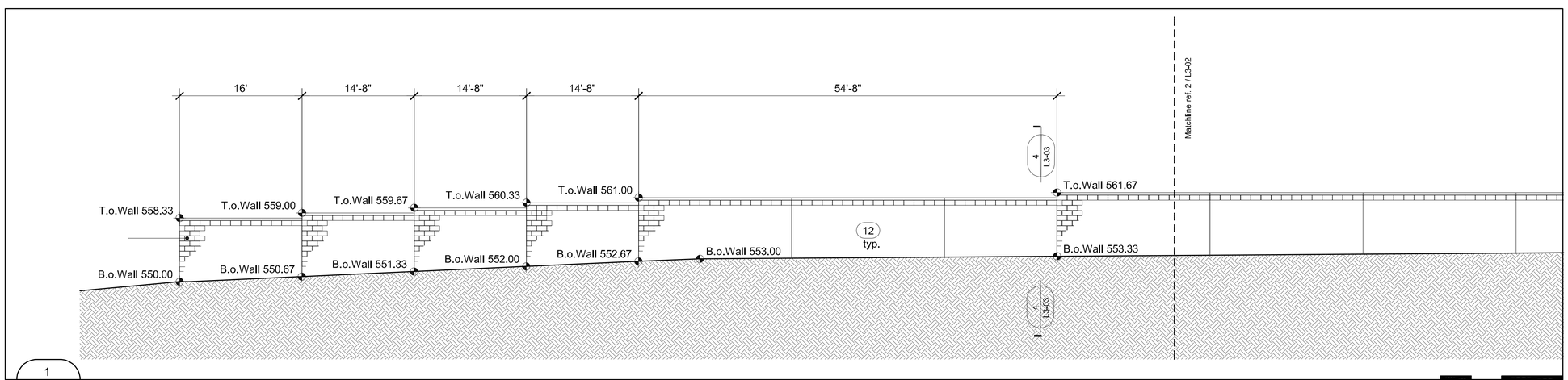
3
L3-02

Vitruvian Park - Park - South Park Wall Elevation



2
L3-02

Vitruvian Park - Park - South Park Wall Elevation



1
L3-02

Vitruvian Park - Park - South Park Wall Elevation

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
3. Planting Area: Ref. L10-00's & L11-00's
4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
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29. Structural Framing: Ref. Structural
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69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

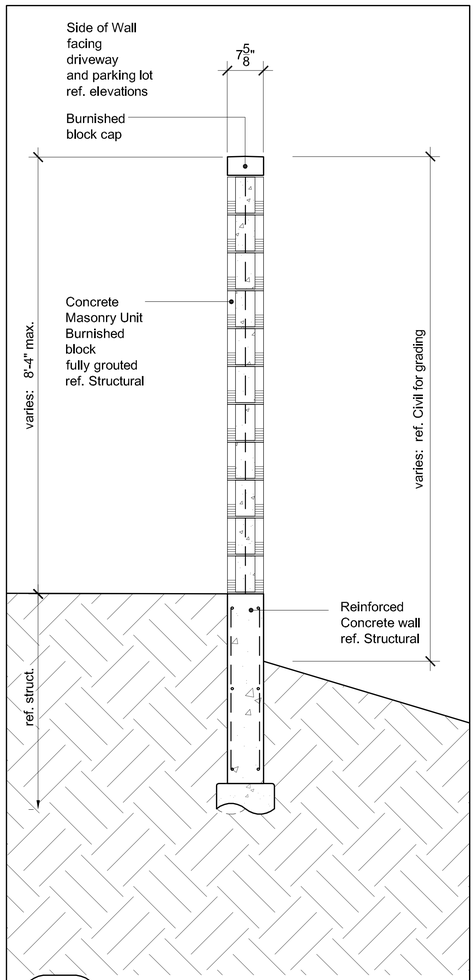
SOUTH PARK ELEVATIONS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

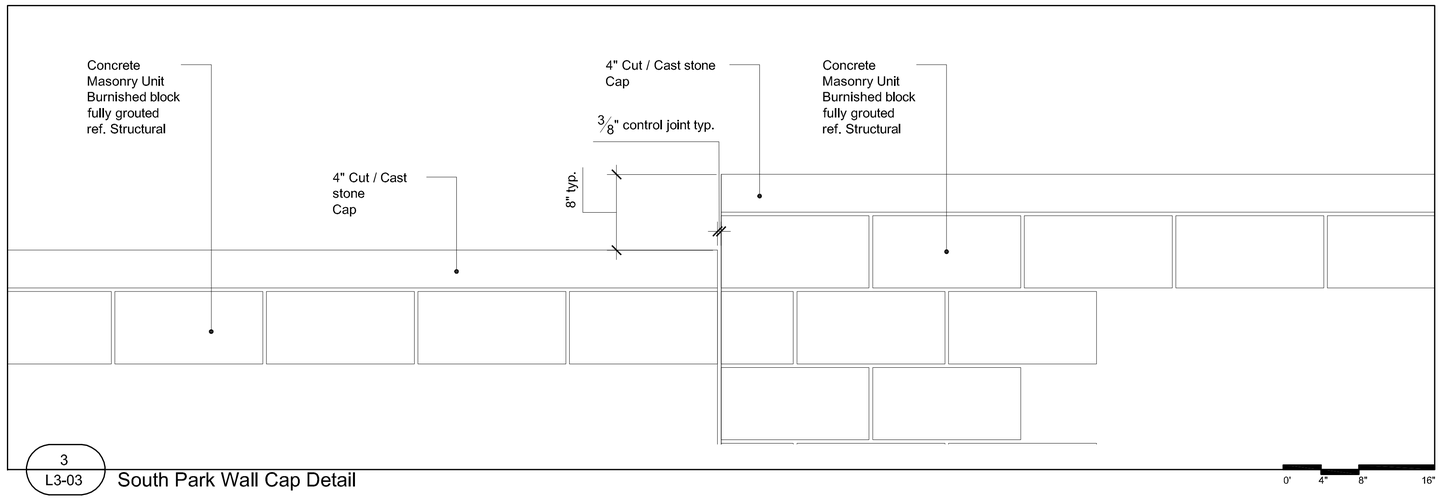
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	MM	NOV 03, 2009	PW # 2009-04	L3-02

BID

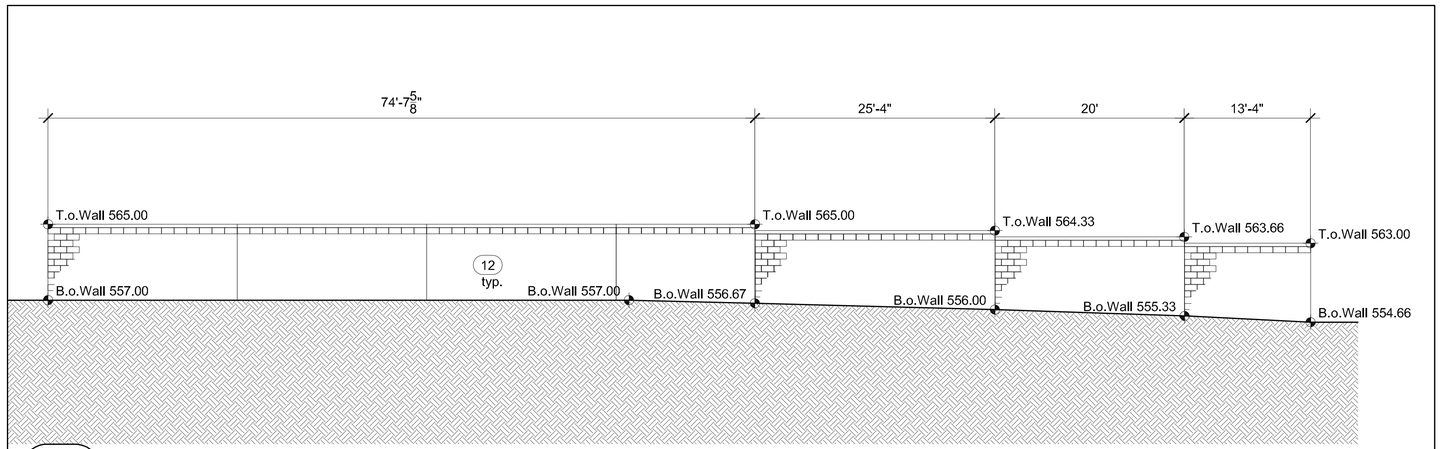
PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



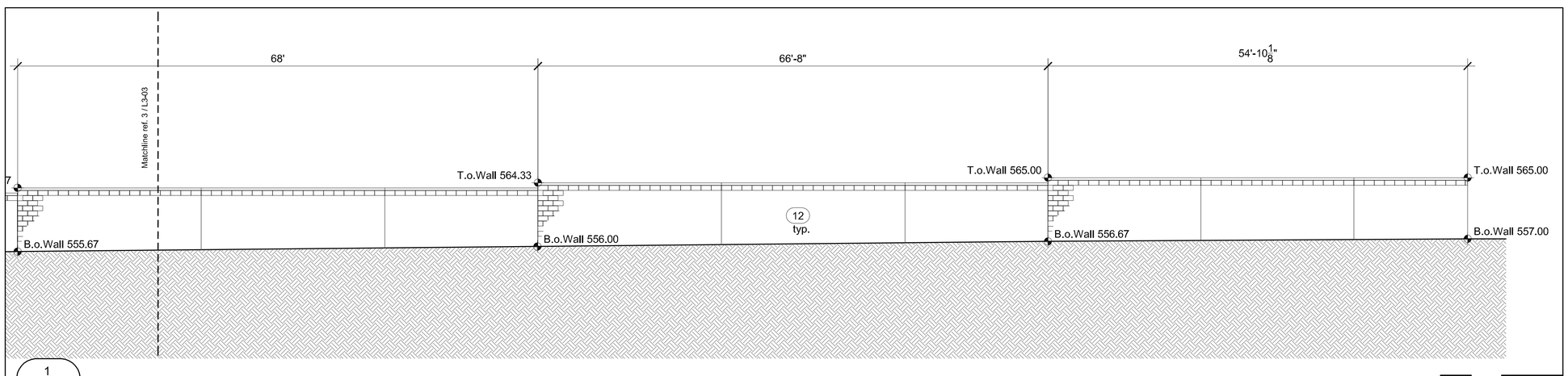
4 L3-03 Typical Wall Section 0' 8" 16" 32"



3 L3-03 South Park Wall Cap Detail



2 L3-03 South Park Wall Elevation



1 L3-03 Vitruvian Park - Park - South Park Wall Elevation

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
3. Planting Area: Ref. L10-00's & L11-00's
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26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT KEVIN W. SLOAN 2296 STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

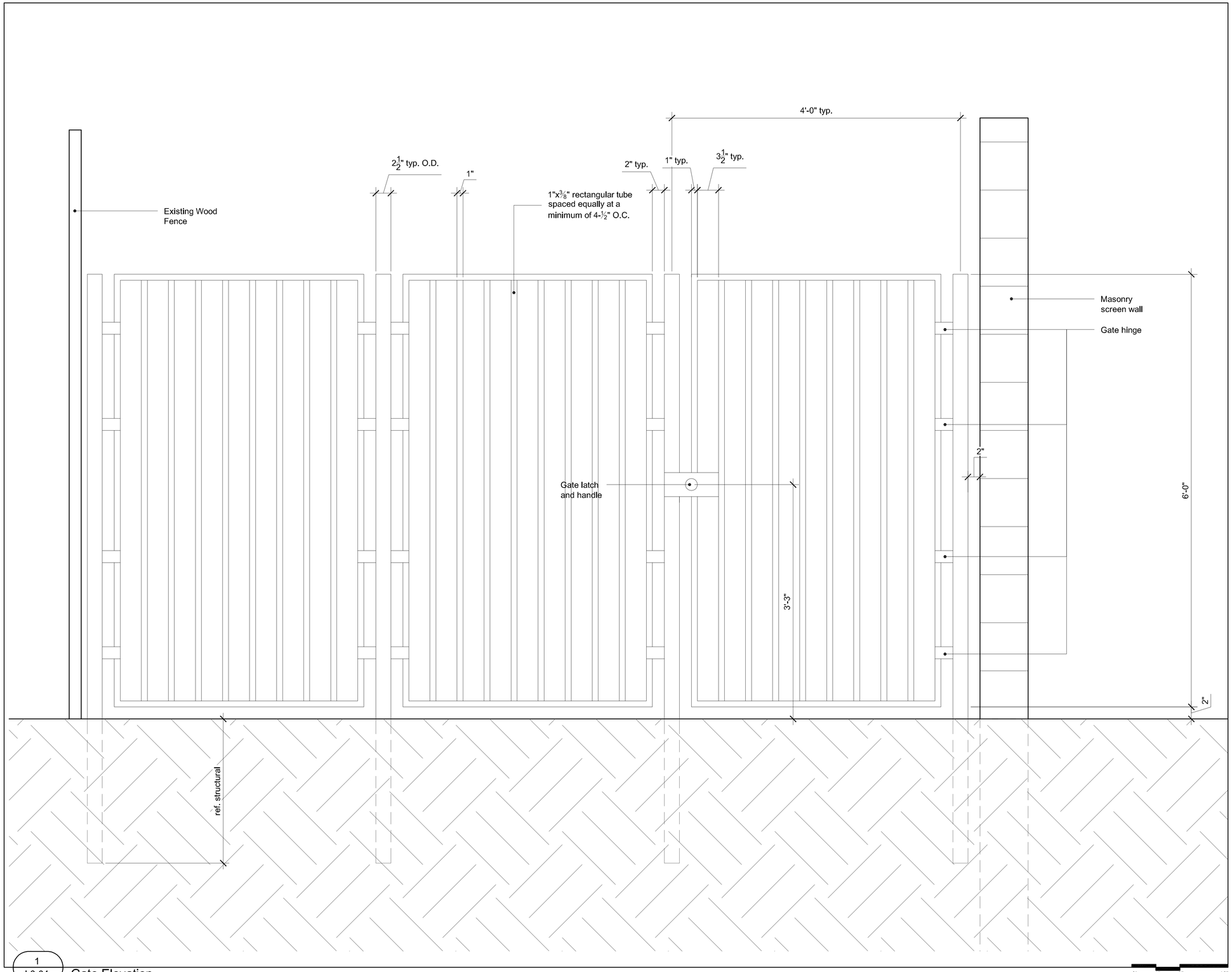
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

SOUTH PARK WALL ELEVATIONS & DETAILS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	MM	NOV 03, 2009 BID	PW # 2009-04	L3-03

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



1
L3-04
Gate Elevation

0" 4" 8" 16"
Scale: 1/2" = 1'

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
3. Planting Area: Ref. L10-00's & L11-00's
4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
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30. Structural Steel Channel: Ref. Structural
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- SE-1 Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

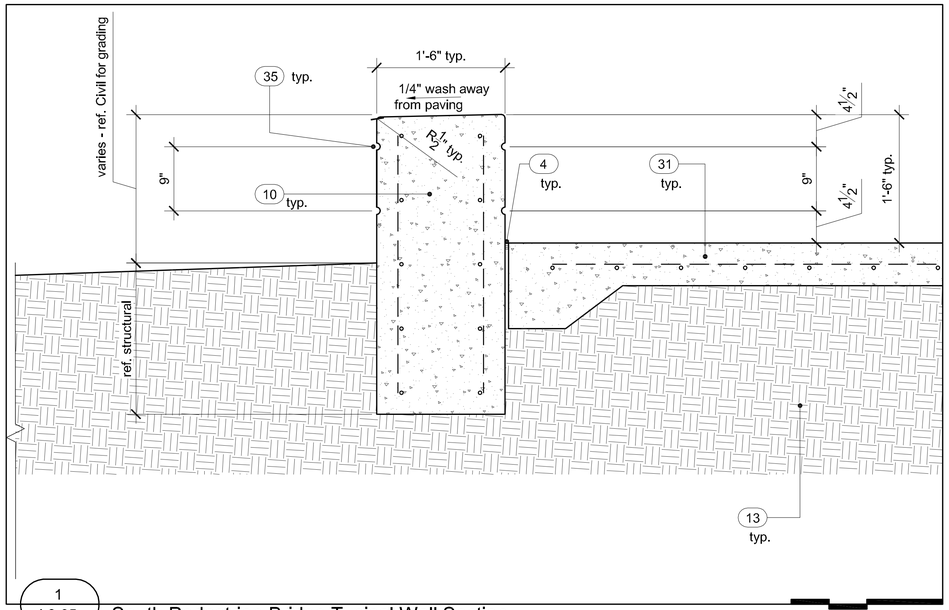
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

SOUTH PARK GATE ELEVATION & DETAILS

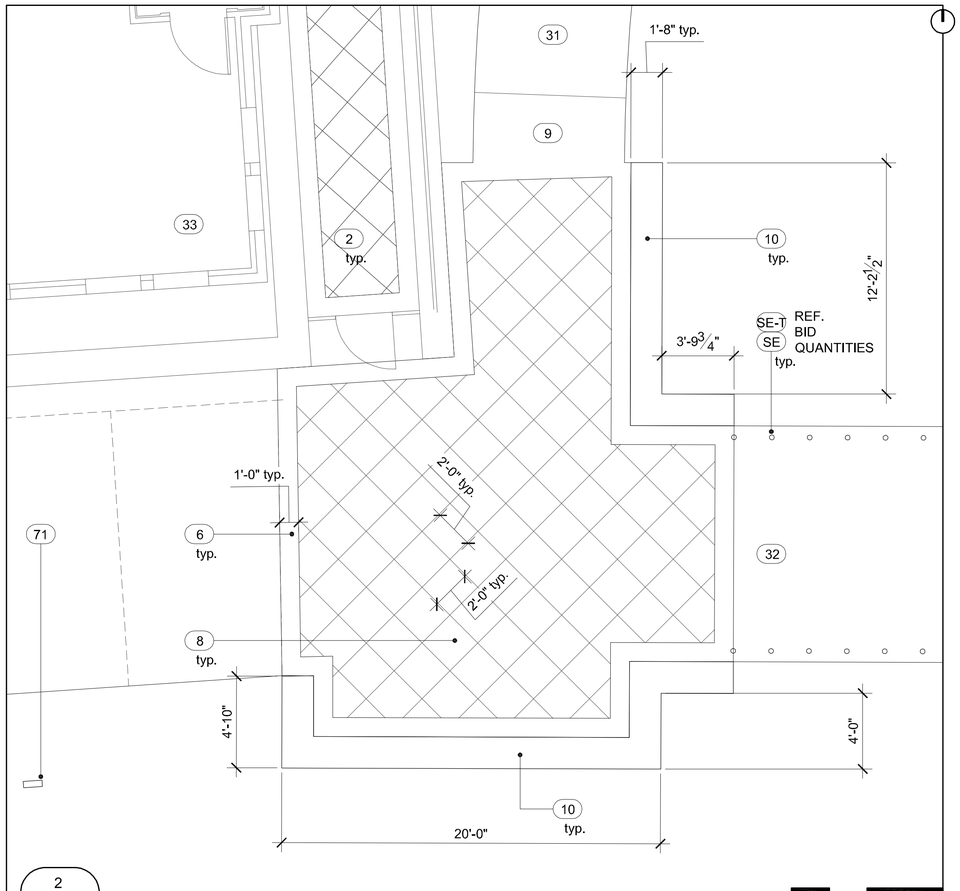
KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
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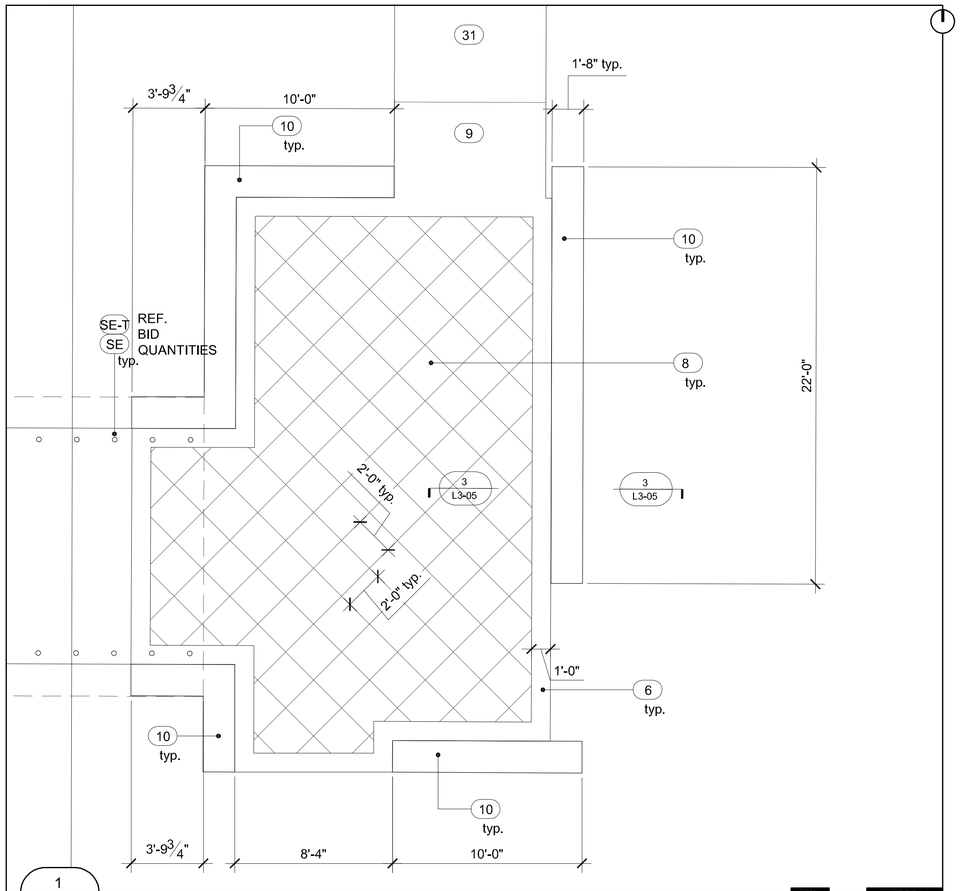
PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



1 L3-05 South Pedestrian Bridge Typical Wall Section



2 L3-05 South Pedestrian Bridge Plan - Materials, Elements & Layout 0' 2' 4' 8'



1 L3-05 South Pedestrian Bridge Plan - Materials, Elements & Layout 0' 2' 4' 8'

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

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8. Concrete Paving C
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11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
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13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
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26. Composite Decking
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28. Structural Steel Beam: Ref. Structural
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30. Structural Steel Channel: Ref. Structural
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34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
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50. Stone Veneer
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65. Fountain Drain Line: Reference Fountain Consultant
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73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
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- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT KEVIN W. SLOAN 2296 STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

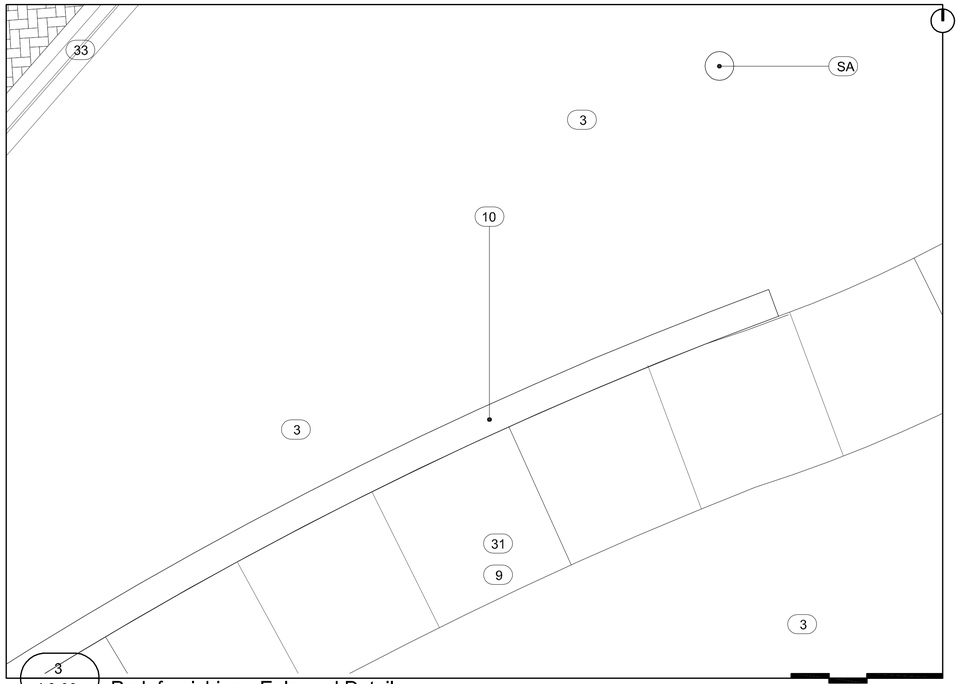
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

SOUTHERN PEDESTRIAN BRIDGE PLAN - MATERIALS,ELEMENTS & LAYOUT

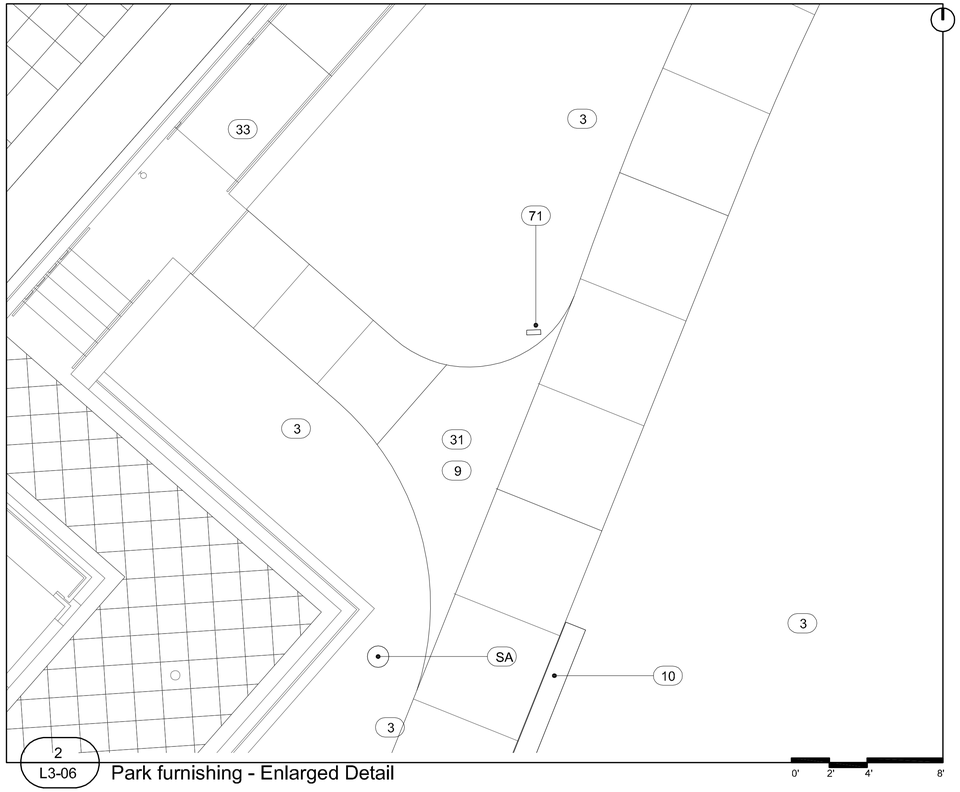
KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
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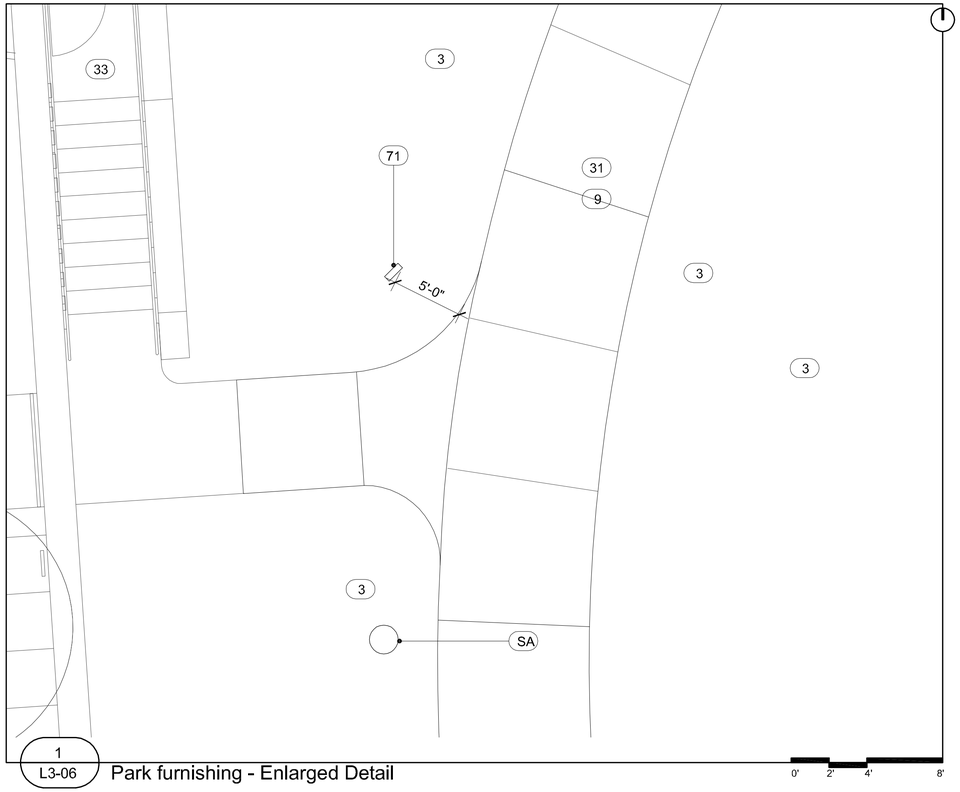
PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



3
L3-06
Park furnishing - Enlarged Detail



2
L3-06
Park furnishing - Enlarged Detail



1
L3-06
Park furnishing - Enlarged Detail

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
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3. Planting Area: Ref. L10-00's & L11-00's
4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

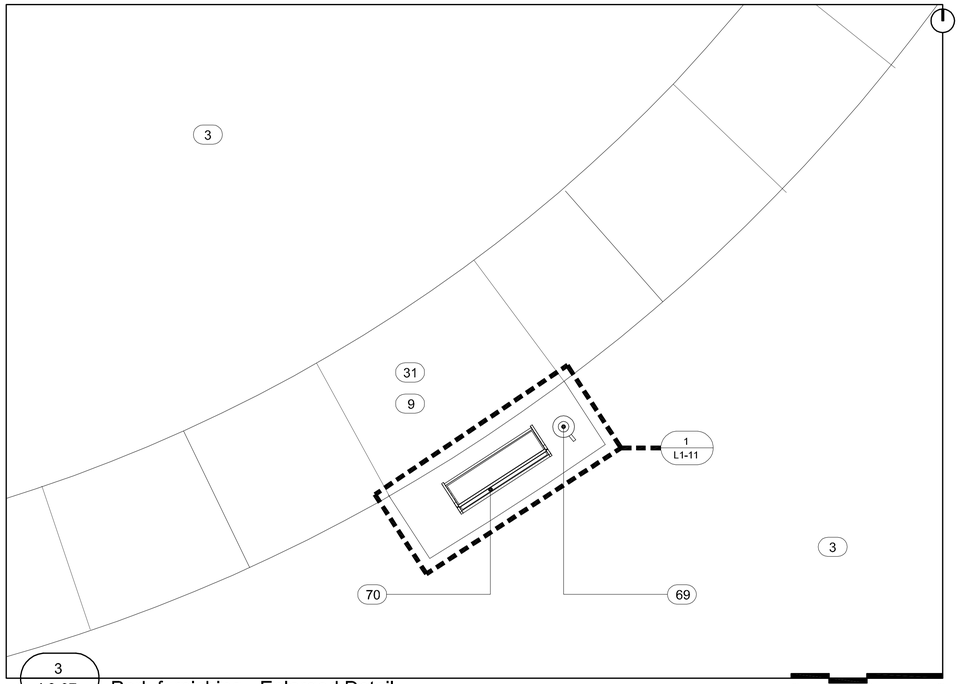
PARK FURNITURE & ELEMENTS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

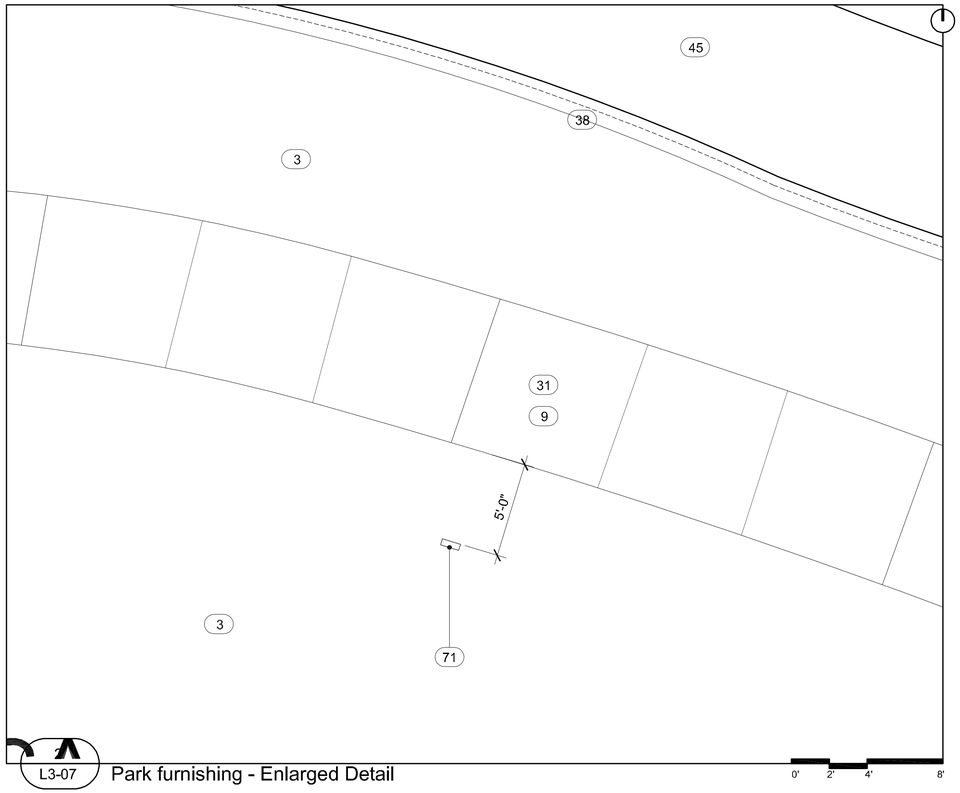
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BID

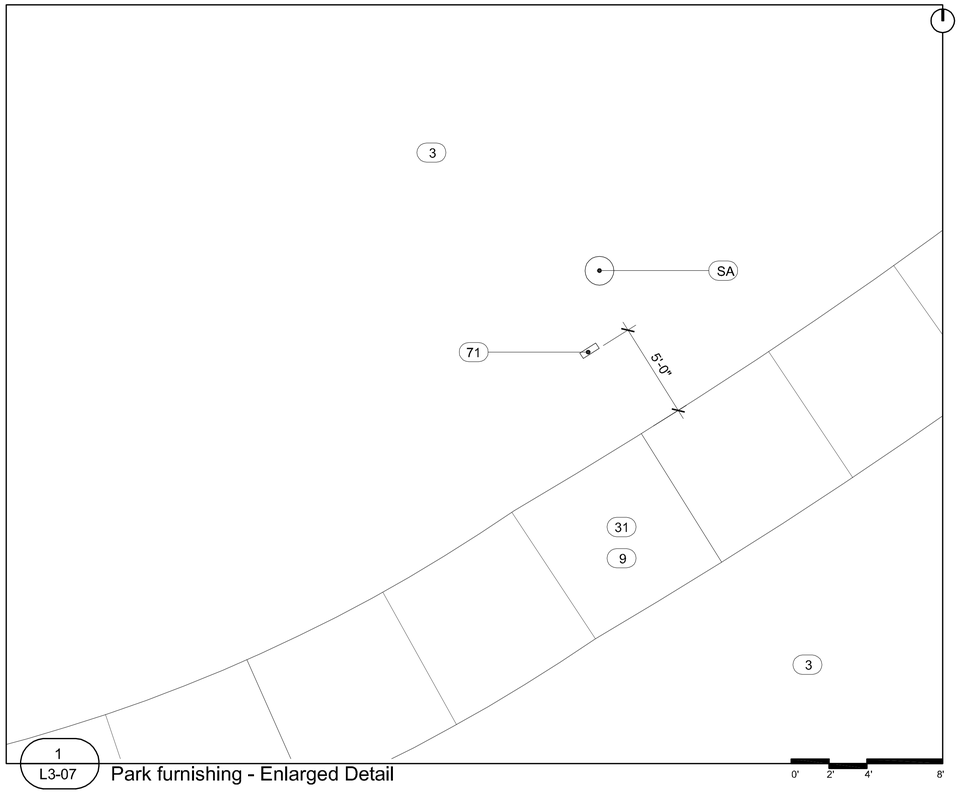
PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



3
L3-07
Park furnishing - Enlarged Detail



1
L3-07
Park furnishing - Enlarged Detail



Park furnishing - Enlarged Detail

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
3. Planting Area: Ref. L10-00's & L11-00's
4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
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18. Metal Pergola
19. Metal Trellis
20. Trellis Above
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25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
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42. Access Panel - Reference structural
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44. Concrete Weir: Reference Structural
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LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
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- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

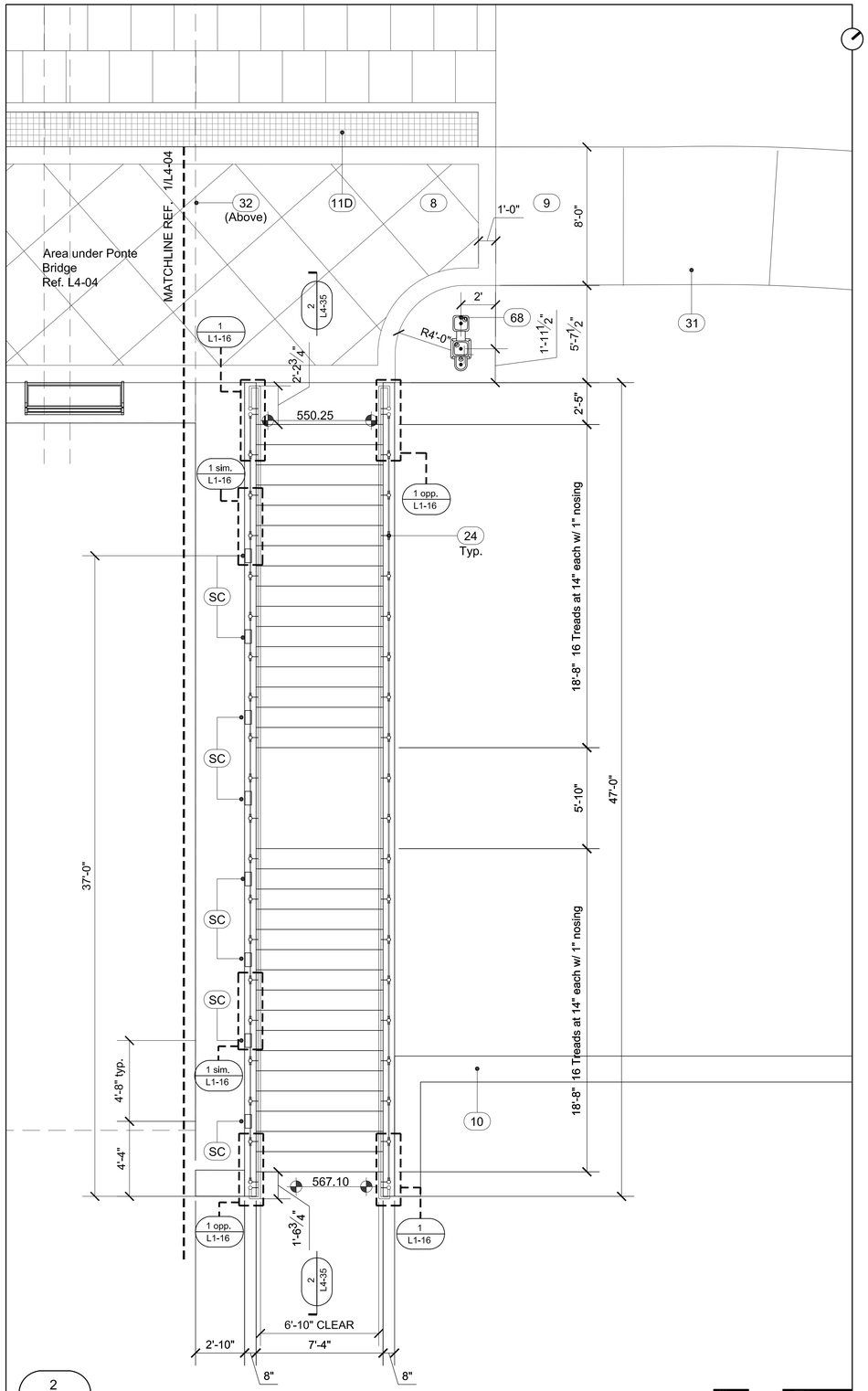
PARK FURNITURE & ELEMENTS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
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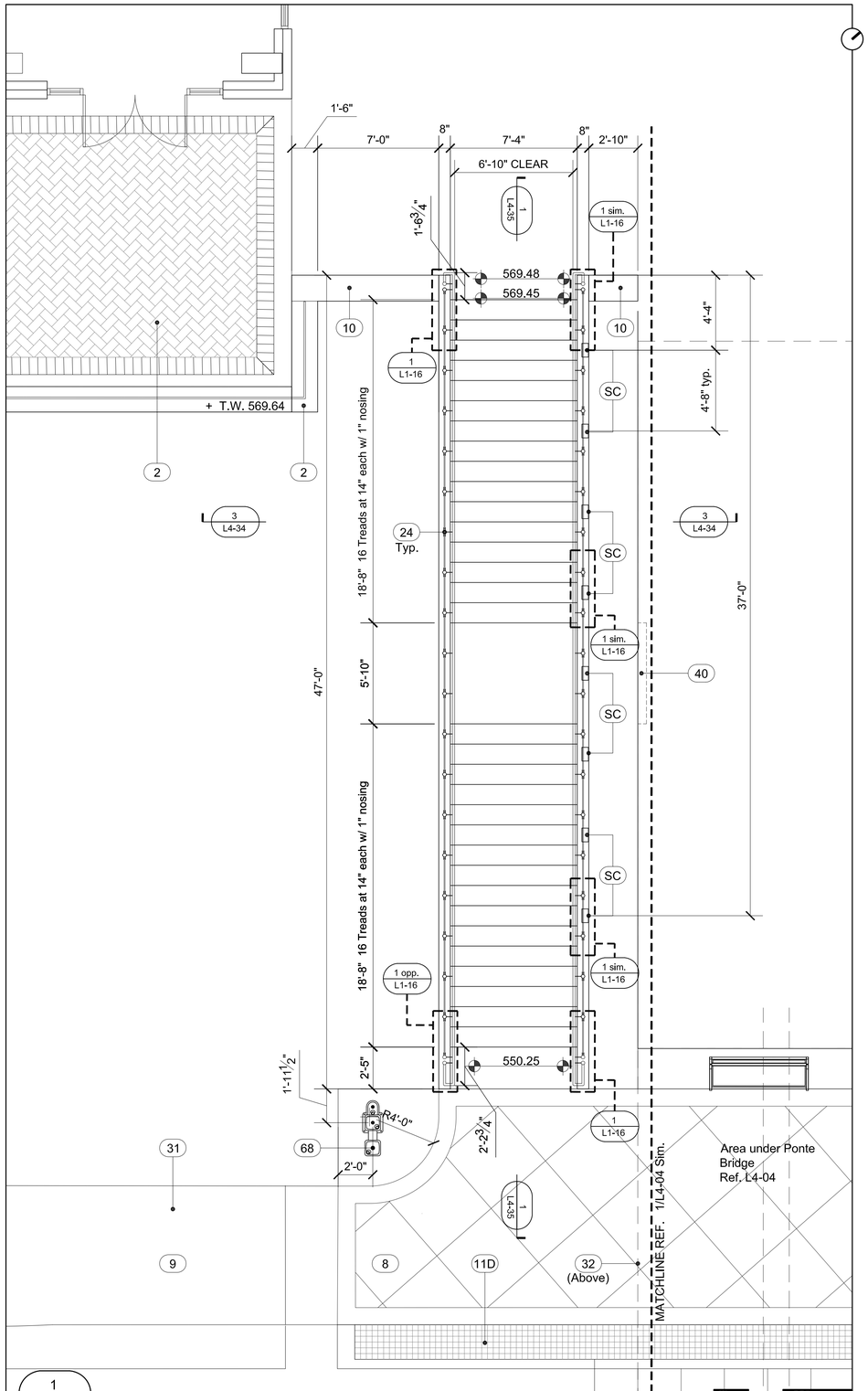
BID

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



2 L4-01 Ponte Bridge Stair 2 Plan - Hardscape Plan

0' 2' 4' 8'



1 L4-01 Ponte Bridge Stair 3 Plan - Hardscape Plan

0' 2' 4' 8'

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

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4. Expansion Joint: Ref. Civil for detail
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LIGHTING

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- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT KEVIN W. SLOAN 2296 STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

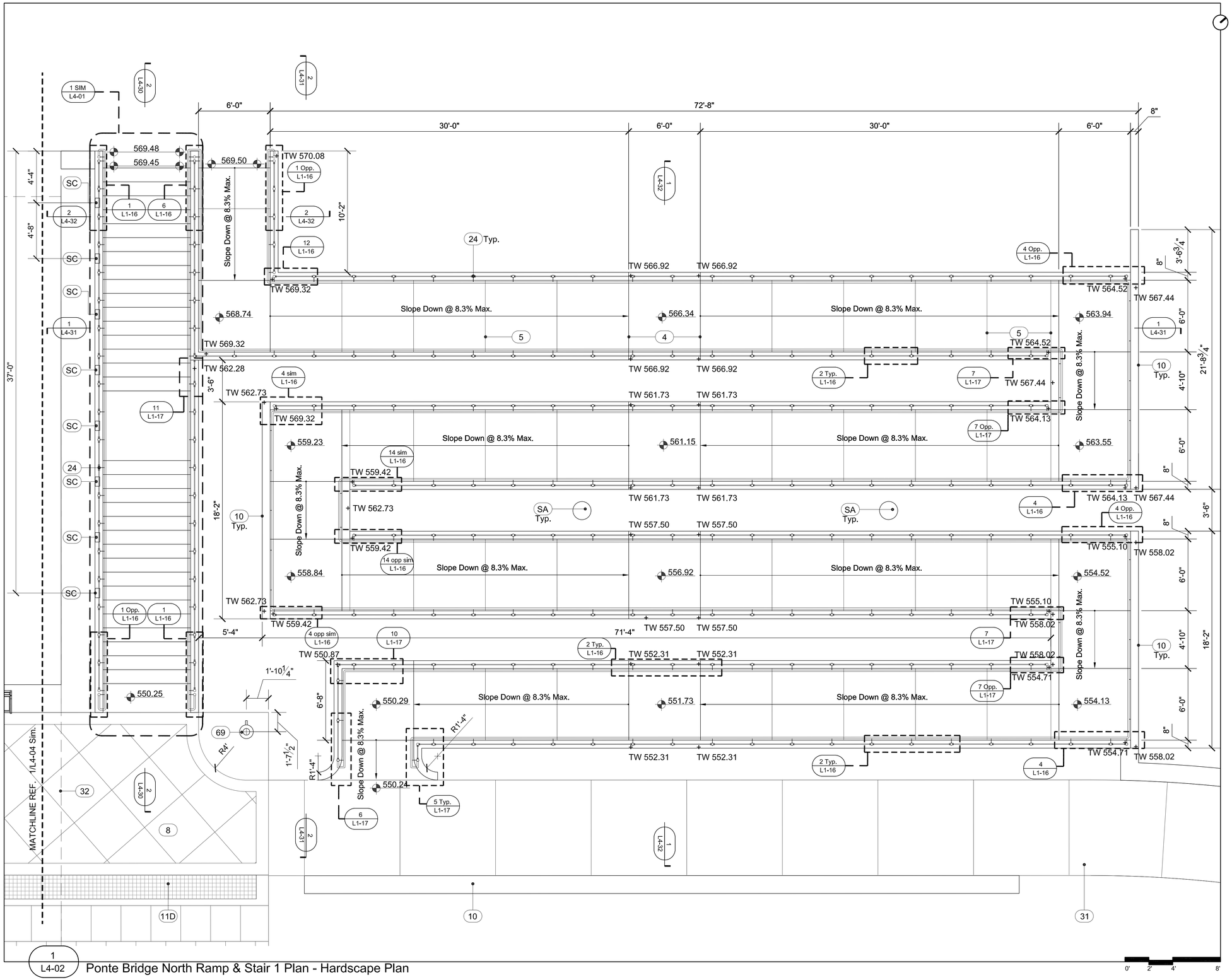
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

PONTE AVENUE BRIDGE/PARK - STAIR PLANS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009 BID	PW # 2009-04	L4-01

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



1 L4-02 Ponte Bridge North Ramp & Stair 1 Plan - Hardscape Plan

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
3. Planting Area: Ref. L10-00's & L11-00's
4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier; Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

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TOWN OF ADDISON
DALLAS COUNTY, TEXAS

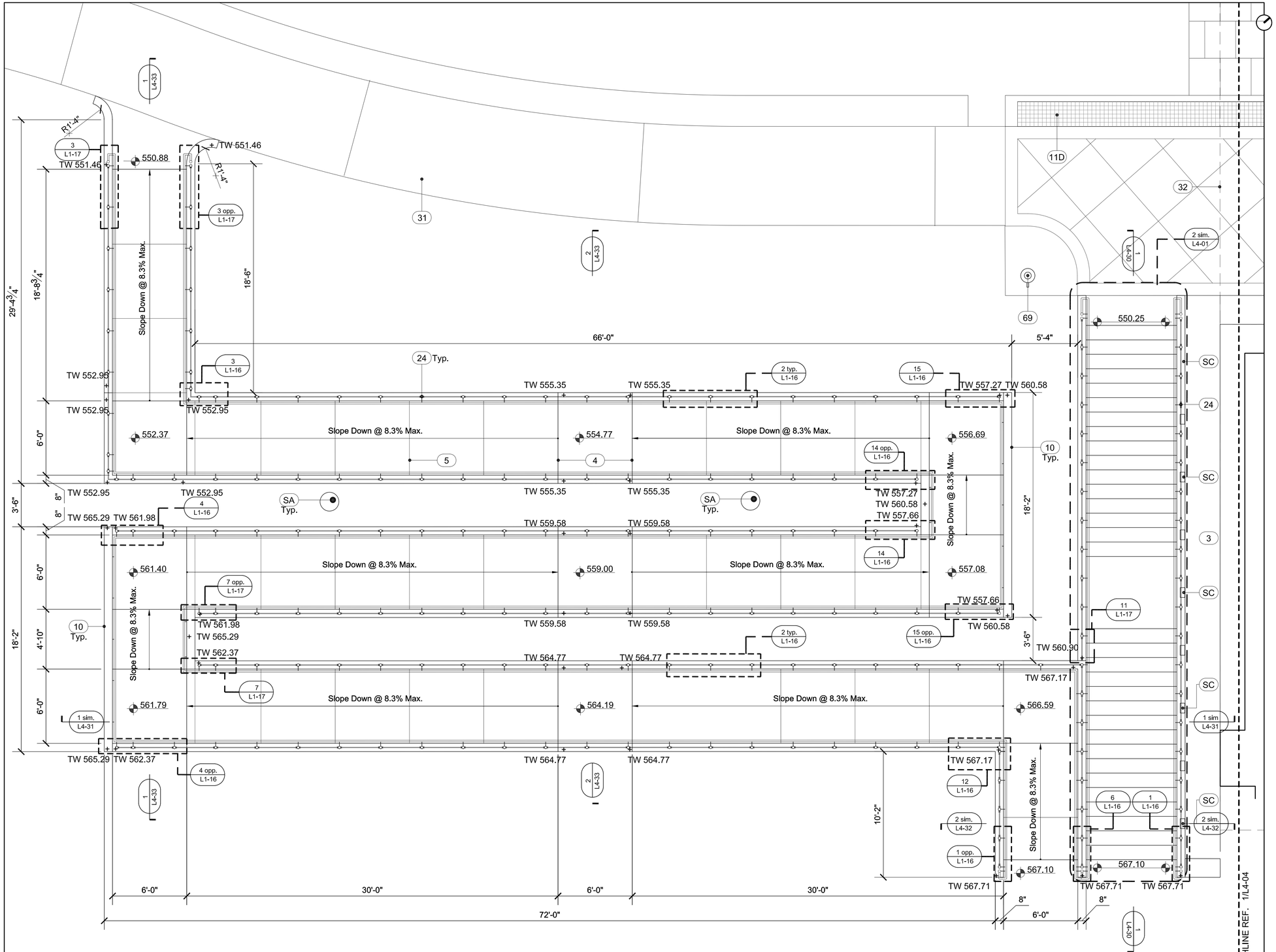
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

PONTE AVENUE BRIDGE/PARK NORTH RAMP & STAIR PLAN

KEVIN SLOAN STUDIO
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Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	MM	NOV 03, 2009 BID	PW # 2009-04	L4-02

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



1 L4-03 Ponte Bridge South Ramp & Stair 4 Plan - Hardscape Plan

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
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4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier; Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

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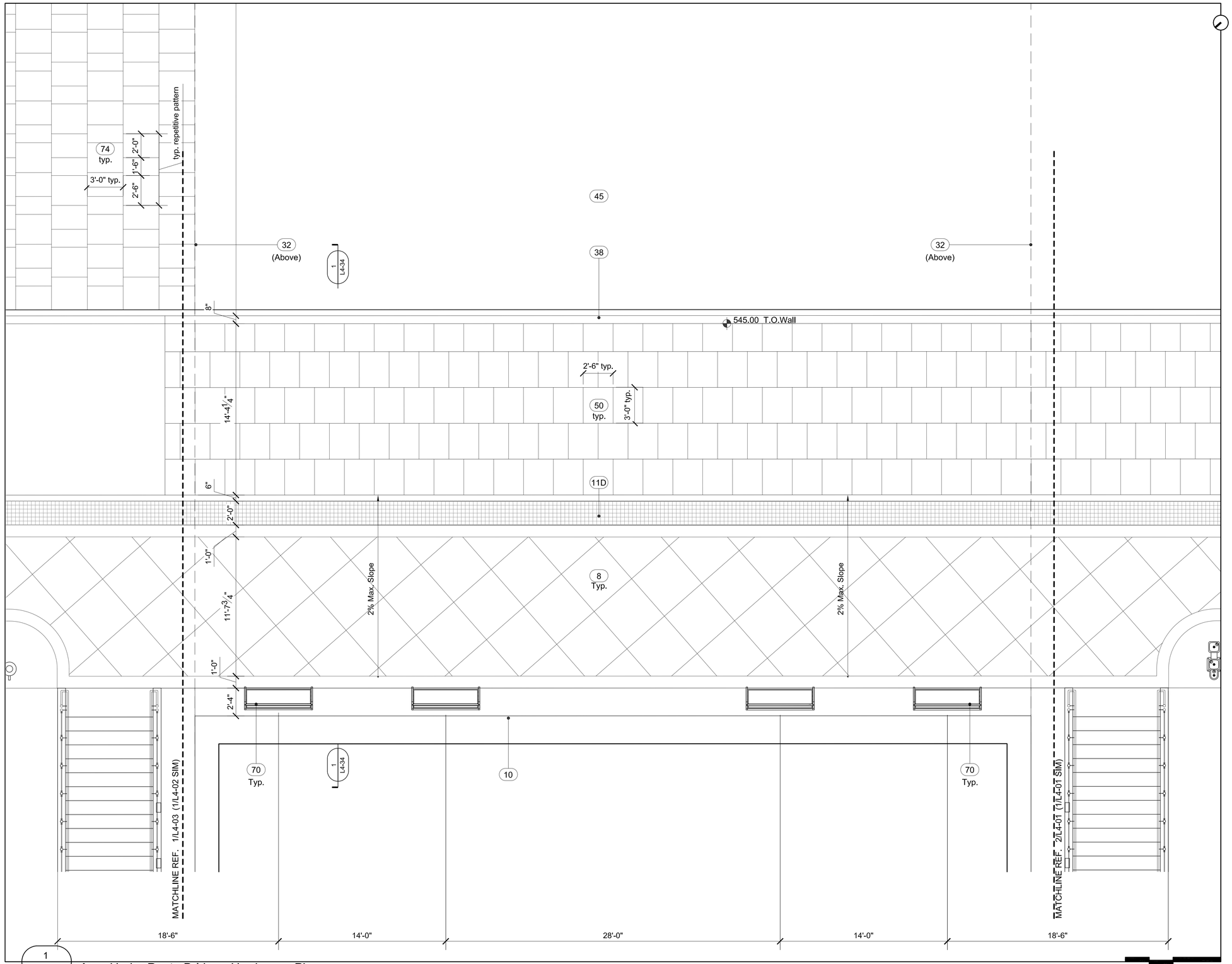
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

PONTE AVENUE BRIDGE/PARK SOUTH RAMP & STAIR PLAN

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PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



1
L4-04
Area Under Ponte Bridge - Hardscape Plan

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

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5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

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TOWN OF ADDISON
DALLAS COUNTY, TEXAS

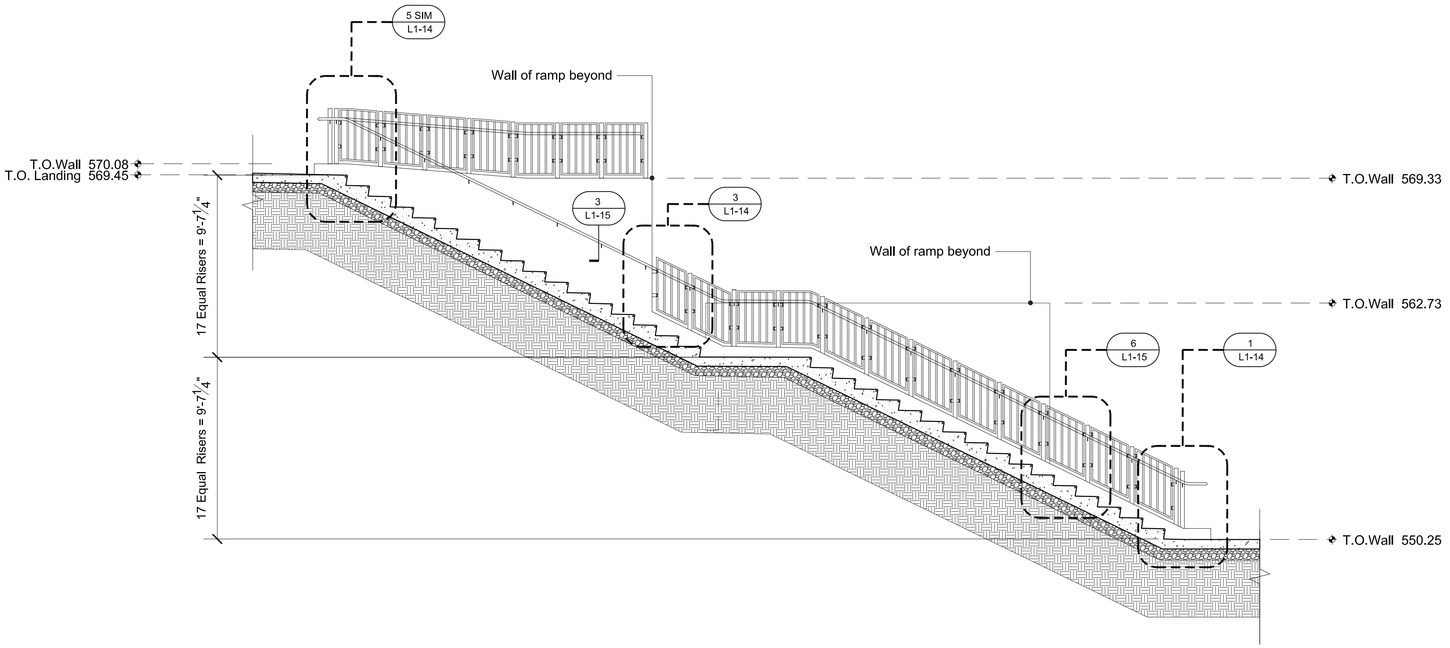
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

AREA UNDER PONTE BRIDGE HARDSCAPE PLAN

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Dallas, Texas 75204 (214) 379-1061

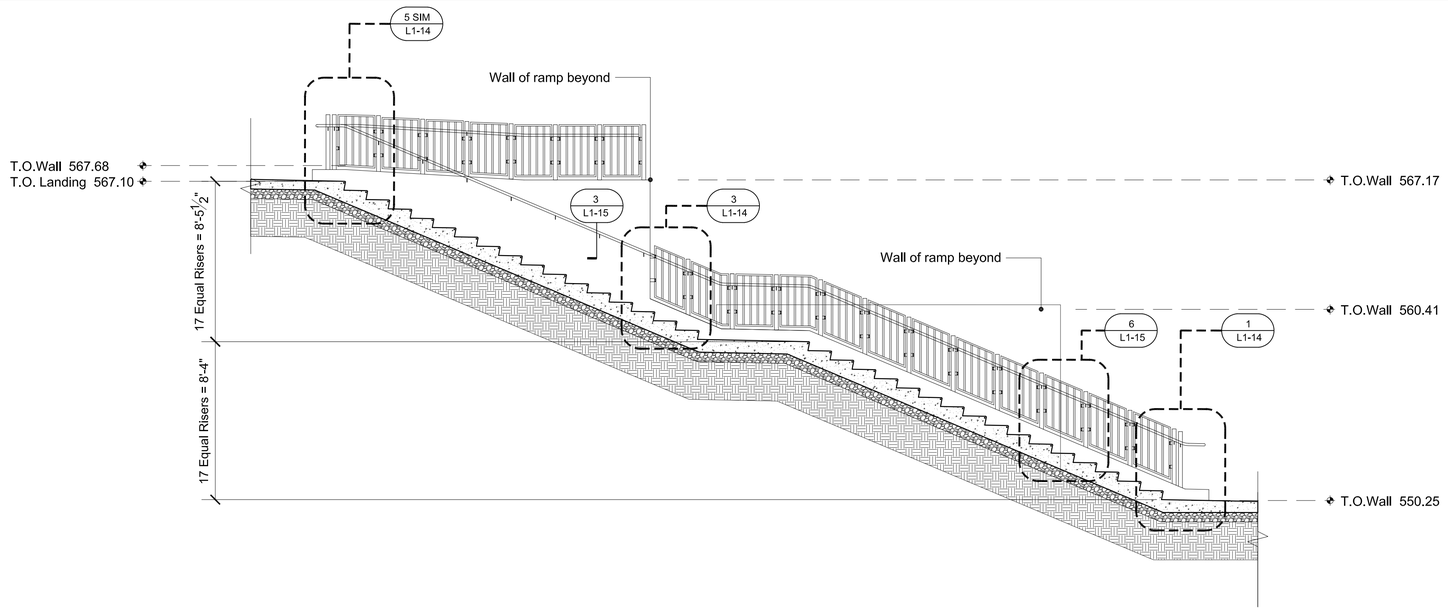
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5029-01	KWS	MM	NOV 03, 2009 BID	PW # 2009-04	L4-04

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



2
L4-30 Ponte Bridge Stair 1 Section

0' 2' 4' 8'



1
L4-30 Ponte Bridge Stair 4 Section

0' 2' 4' 8'

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

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3. Planting Area: Ref. L10-00's & L11-00's
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5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT KEVIN W. SLOAN 2296 STATE OF TEXAS

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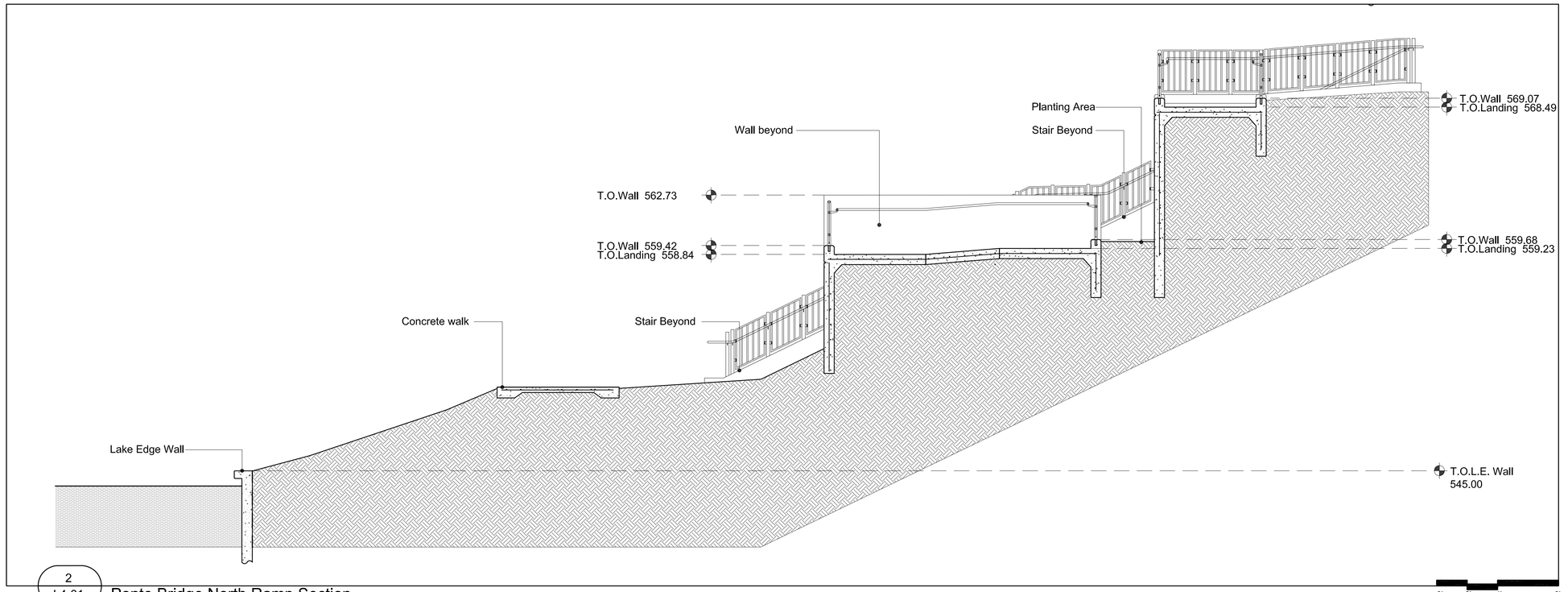
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

PONTE BRIDGE STAIR SECTIONS

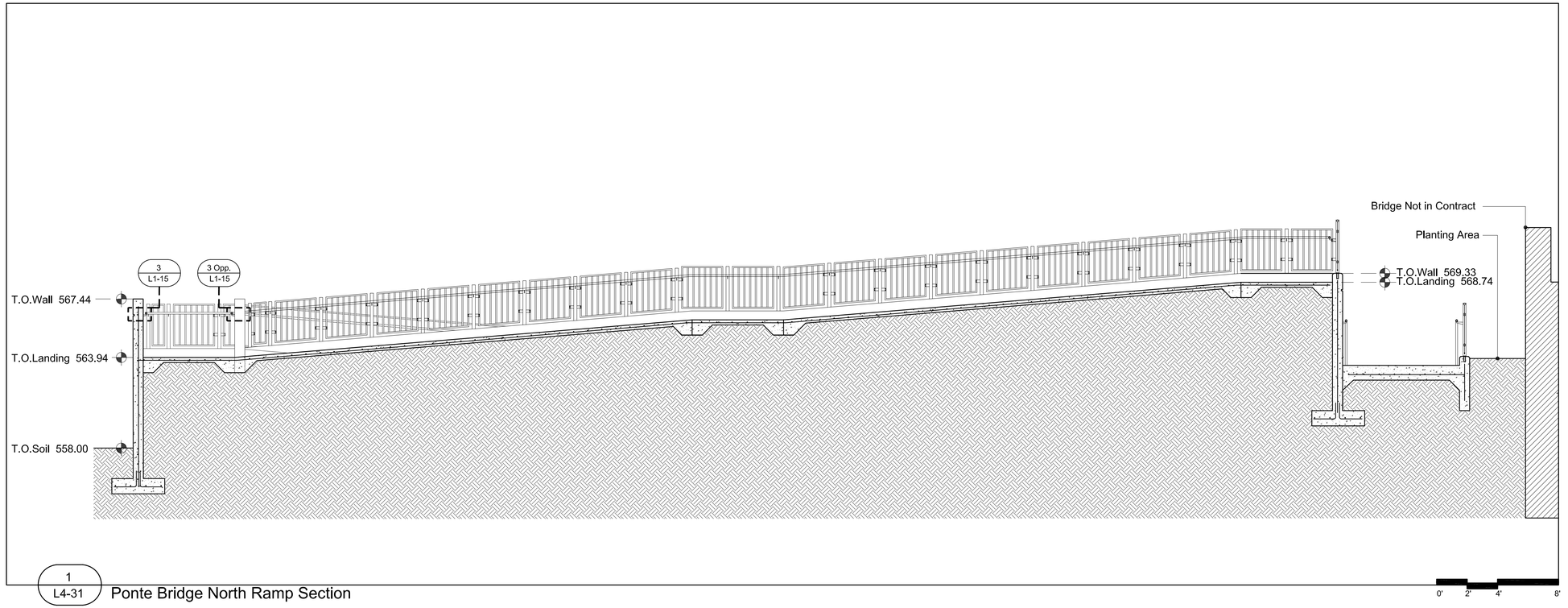
KEVIN SLOAN STUDIO
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PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	MM	NOV 03, 2009 BID	PW # 2009-04	L4-30

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



2
L4-31 Ponte Bridge North Ramp Section



1
L4-31 Ponte Bridge North Ramp Section

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1 Project Limit
2 Not in Contract (N.I.C.): Information provided for design intent only.
3 Planting Area: Ref. L10-00's & L11-00's
4 Expansion Joint: Ref. Civil for detail
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6 Concrete Paving A
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9 Concrete Paving D
10 Concrete Wall: ref. Structural
11A Pavestone Concrete Paver A
11B Pavestone Concrete Paver B
11C Pavestone Concrete Paver C
11D Pavestone Concrete Paver D
11E Pavestone Concrete Paver E
12 Structural Concrete Masonry Unit Wall
13 Structural Fill: Reference Structural
14 Transformer/Switchgear: Ref. Civil
15 Drain Grate
16 Atrium Grate
17 Paver Grate
18 Metal Pergola
19 Metal Trellis
20 Trellis Above
21 Light Fixture Above
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23 Metal Handrail
24 Metal Guard Rail and Handrail
25 Granite Bollard
26 Composite Decking
27 Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28 Structural Steel Beam: Ref. Structural
29 Structural Framing: Ref. Structural
30 Structural Steel Channel: Ref. Structural
31 Concrete walkway: Ref. Civil & Structural
32 Bridge: N.I.C. (Not In Contract)
33 Building Beyond: N.I.C. (Not In Contract)
34 Guardrail Beyond
35 Concrete Form Ties
36 Vertical Control Joints: Ref. Structural
37 Concrete Bench
38 Lake Edge Wall: Ref. Structural
39 Concrete Wall Beyond
40 Electrical: Ref. Civil
41 Concrete Curb - Reference structural
42 Access Panel - Reference structural
43 Vertical Control Joints: Ref. Structural
44 Concrete Weir: Reference Structural
45 Water
46 Hollow Metal Door and Frame
47 Existing Wooden Fence
48 Metal Gate
49 Limestone Boulder
50 Stone Veneer
60 Fully Grouted Beach Pebbles
61 Fountain: Ref. Fountain Consultant
62 Not Used
63 Fountain Pool: Ref. Fountain Consultant
64 Fountain Water Supply Line: Reference Fountain Consultant
65 Fountain Drain Line: Reference Fountain Consultant
66 Chair
67 Table
68 Pedestal Drinking Fountain
69 Litter Receptacle
70 Bench
71 Pet Waste Disposal System
72 Bike Rack
73 Gravel
74 Limestone Slab

LIGHTING

SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
SB Pole Mount - ref. Civil
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SE Suspended Strand - ref. Civil
SE-1 Suspended Strand - ref. Civil
SE-T Direct Imbedded Trans - ref. Civil
SK1 Surface Mount - ref. Civil
SK2 Surface Mount - ref. Civil
L4 Pole Mount - ref. Civil
L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT KEVIN W. SLOAN 2296 STATE OF TEXAS

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TOWN OF ADDISON
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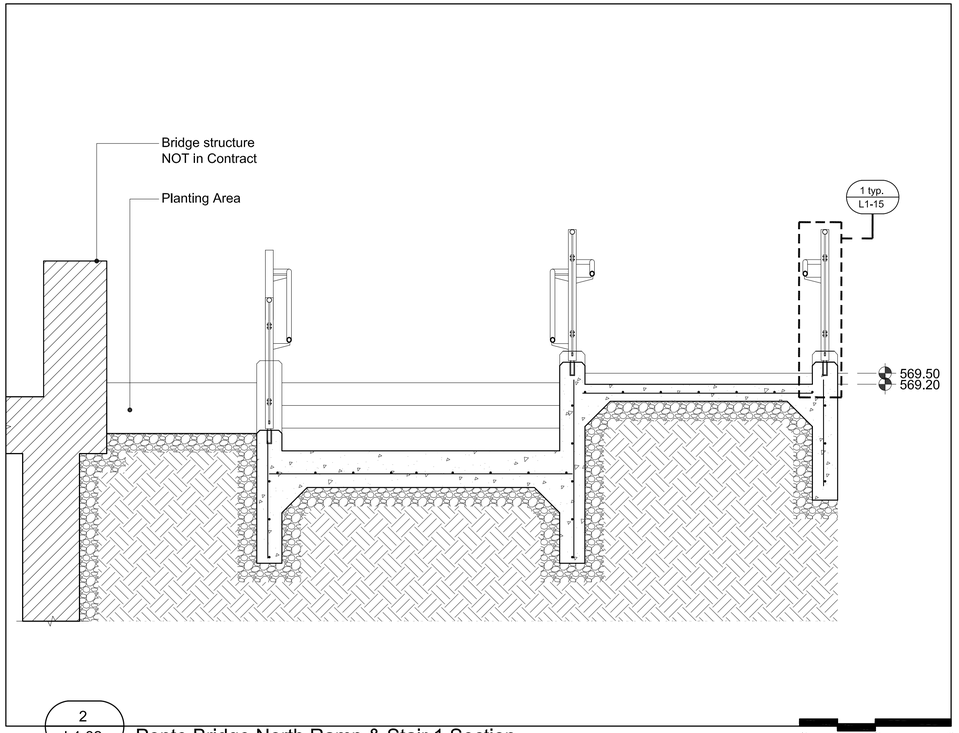
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

PONTE BRIDGE NORTH RAMP SECTIONS

KEVIN SLOAN STUDIO
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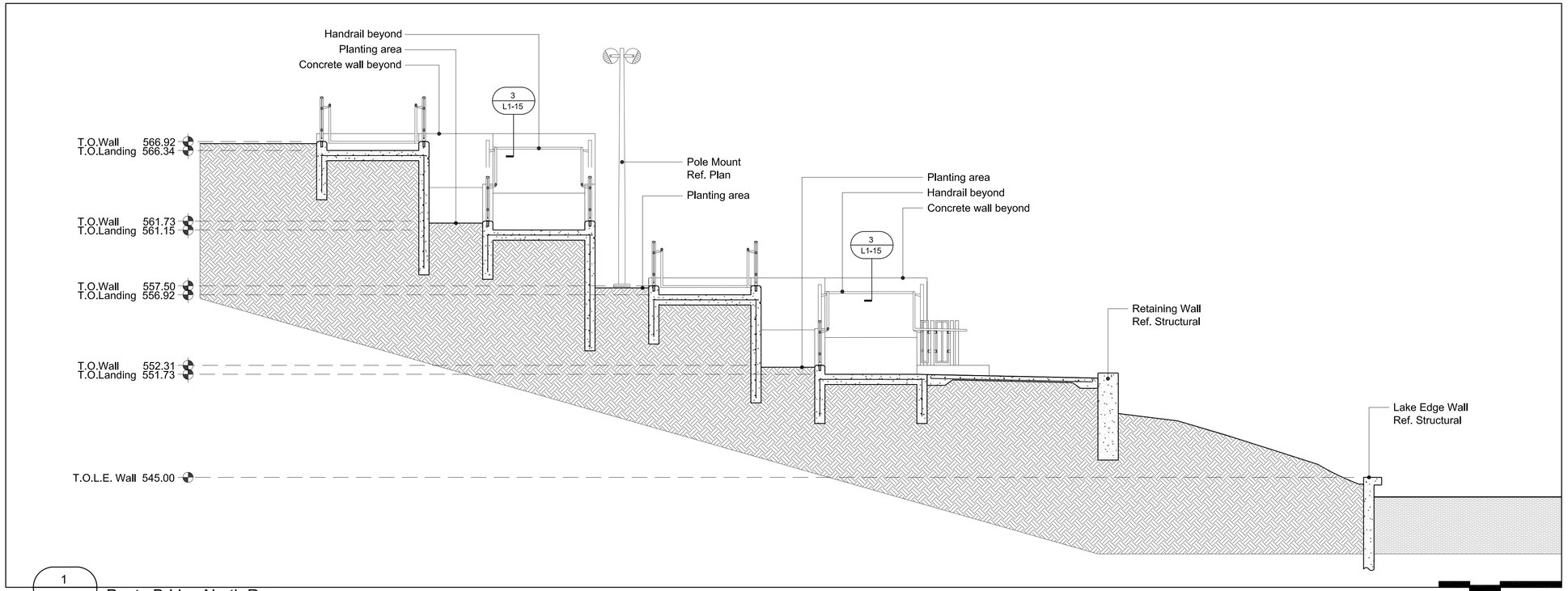
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	MM	NOV 03, 2009 BID	PW # 2009-04	L4-31

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



2
L4-32
Ponte Bridge North Ramp & Stair 1 Section

0' 1' 2' 4'



1
L4-32
Ponte Bridge North Ramp

0' 2' 4' 8'

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

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11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
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13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
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26. Composite Decking
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40. Electrical: Ref. Civil
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67. Table
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LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
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- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

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TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

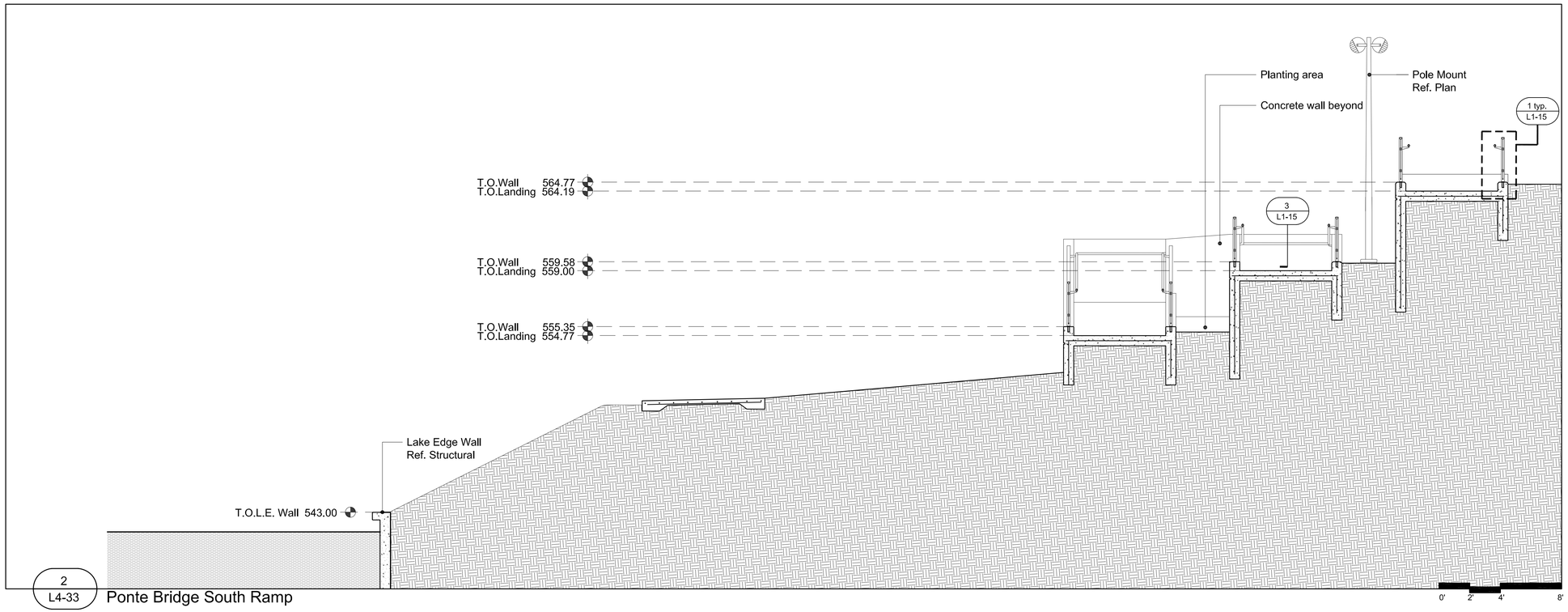
PONTE BRIDGE NORTH RAMP SECTIONS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

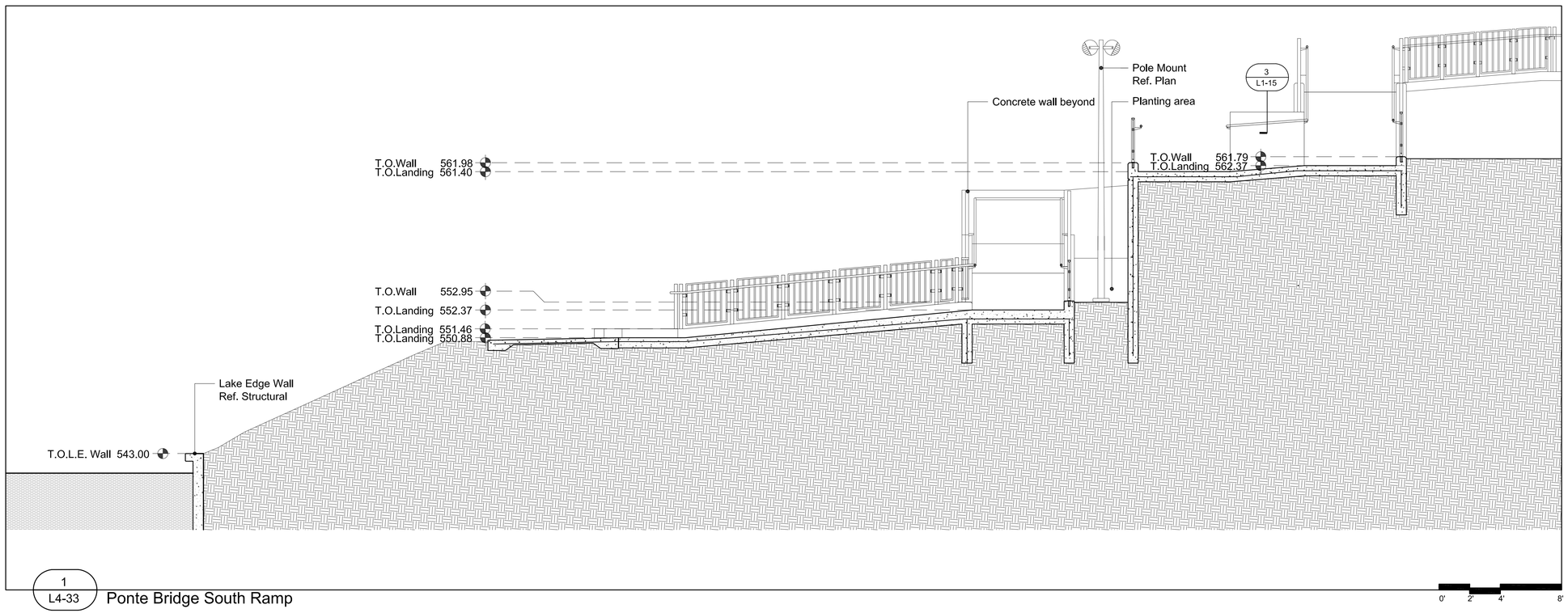
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	MM	NOV 03, 2009	PW # 2009-04	L4-32

BID

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



2
L4-33
Ponte Bridge South Ramp



1
L4-33
Ponte Bridge South Ramp

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1 Project Limit
2 Not in Contract (N.I.C.): Information provided for design intent only.
3 Planting Area: Ref. L10-00's & L11-00's
4 Expansion Joint: Ref. Civil for detail
5 Tooled Control Joint: Ref. Civil for detail
6 Concrete Paving A
7 Concrete Paving B
8 Concrete Paving C
9 Concrete Paving D
10 Concrete Wall: ref. Structural
11A Pavestone Concrete Paver A
11B Pavestone Concrete Paver B
11C Pavestone Concrete Paver C
11D Pavestone Concrete Paver D
11E Pavestone Concrete Paver E
12 Structural Concrete Masonry Unit Wall
13 Structural Fill: Reference Structural
14 Transformer/Switchgear: Ref. Civil
15 Drain Grate
16 Atrium Grate
17 Paver Grate
18 Metal Pergola
19 Metal Trellis
20 Trellis Above
21 Light Fixture Above
22 Metal Guard Rail
23 Metal Handrail
24 Metal Guard Rail and Handrail
25 Granite Bollard
26 Composite Decking
27 Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28 Structural Steel Beam: Ref. Structural
29 Structural Framing: Ref. Structural
30 Structural Steel Channel: Ref. Structural
31 Concrete walkway: Ref. Civil & Structural
32 Bridge: N.I.C. (Not In Contract)
33 Building Beyond: N.I.C. (Not In Contract)
34 Guardrail Beyond
35 Concrete Form Ties
36 Vertical Control Joints: Ref. Structural
37 Concrete Bench
38 Lake Edge Wall: Ref. Structural
39 Concrete Wall Beyond
40 Electrical: Ref. Civil
41 Concrete Curb - Reference structural
42 Access Panel - Reference structural
43 Vertical Control Joints: Ref. Structural
44 Concrete Weir: Reference Structural
45 Water
46 Hollow Metal Door and Frame
47 Existing Wooden Fence
48 Metal Gate
49 Limestone Boulder
50 Stone Veneer
60 Fully Grouted Beach Pebbles
61 Fountain: Ref. Fountain Consultant
62 Not Used
63 Fountain Pool: Ref. Fountain Consultant
64 Fountain Water Supply Line: Reference Fountain Consultant
65 Fountain Drain Line: Reference Fountain Consultant
66 Chair
67 Table
68 Pedestal Drinking Fountain
69 Litter Receptacle
70 Bench
71 Pet Waste Disposal System
72 Bike Rack
73 Gravel
74 Limestone Slab

LIGHTING

SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
SB Pole Mount - ref. Civil
SC Wall Recessed - ref. Civil
SE Suspended Strand - ref. Civil
SE-1 Suspended Strand - ref. Civil
SE-T Direct Imbedded Trans - ref. Civil
SK1 Surface Mount - ref. Civil
SK2 Surface Mount - ref. Civil
L4 Pole Mount - ref. Civil
L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT KEVIN W. SLOAN 2296 STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison. TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

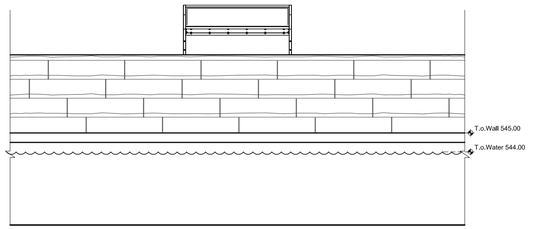
PONTE BRIDGE SOUTH RAMP SECTIONS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	MM	NOV 03, 2009	PW # 2009-04	L4-33

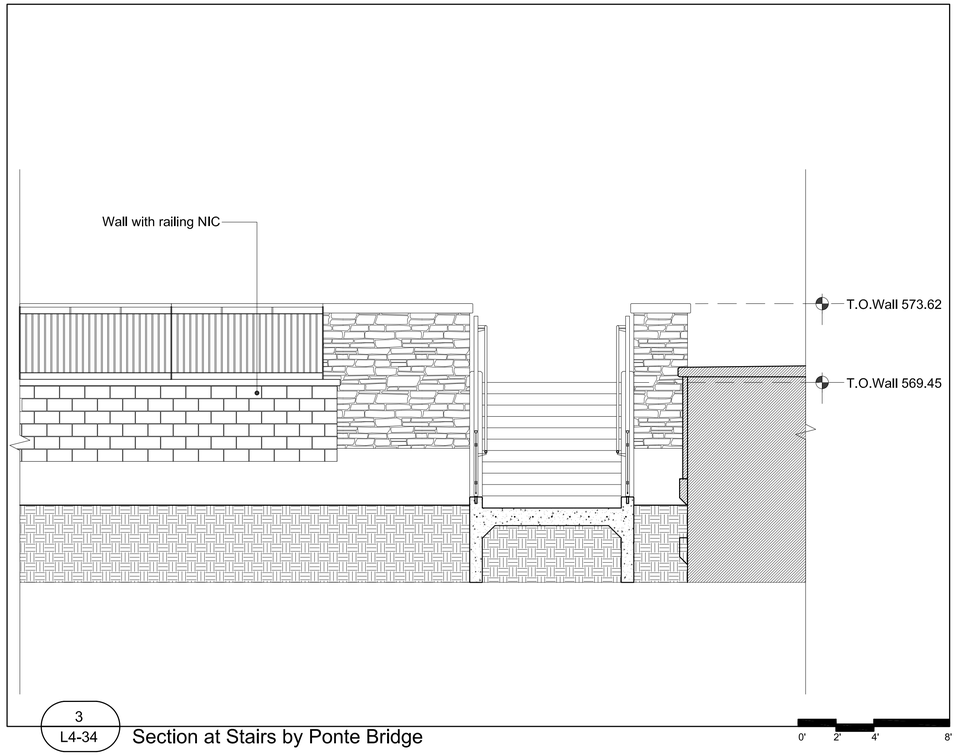
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PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



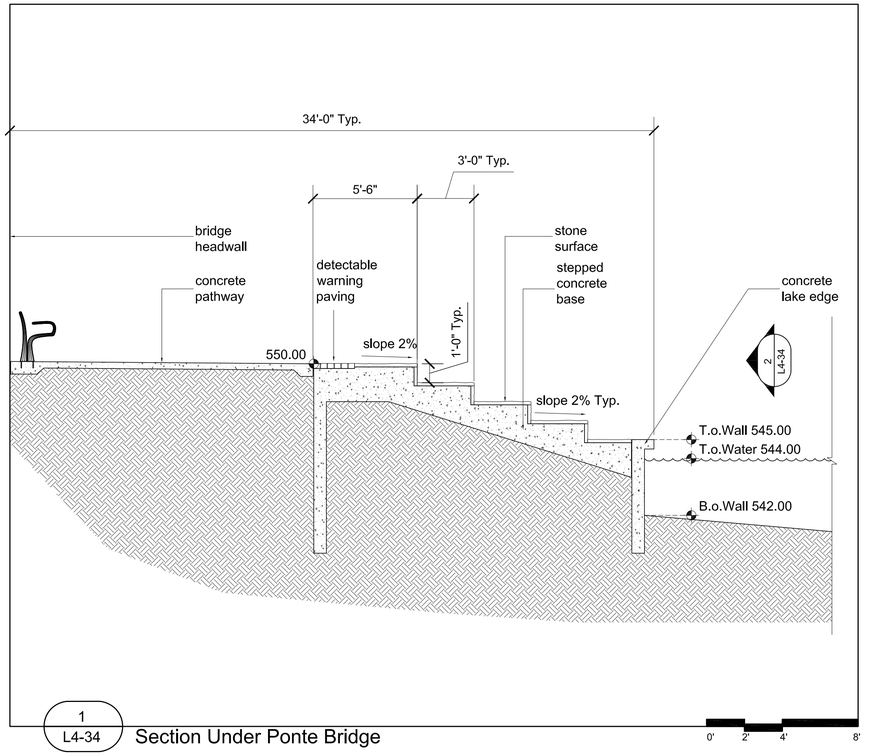
2 L4-34 Elevation of a Segment Under Ponte Bridge

0' 2' 4' 8'



3 L4-34 Section at Stairs by Ponte Bridge

0' 2' 4' 8'



1 L4-34 Section Under Ponte Bridge

0' 2' 4' 8'

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

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6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT KEVIN W. SLOAN 2296 STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

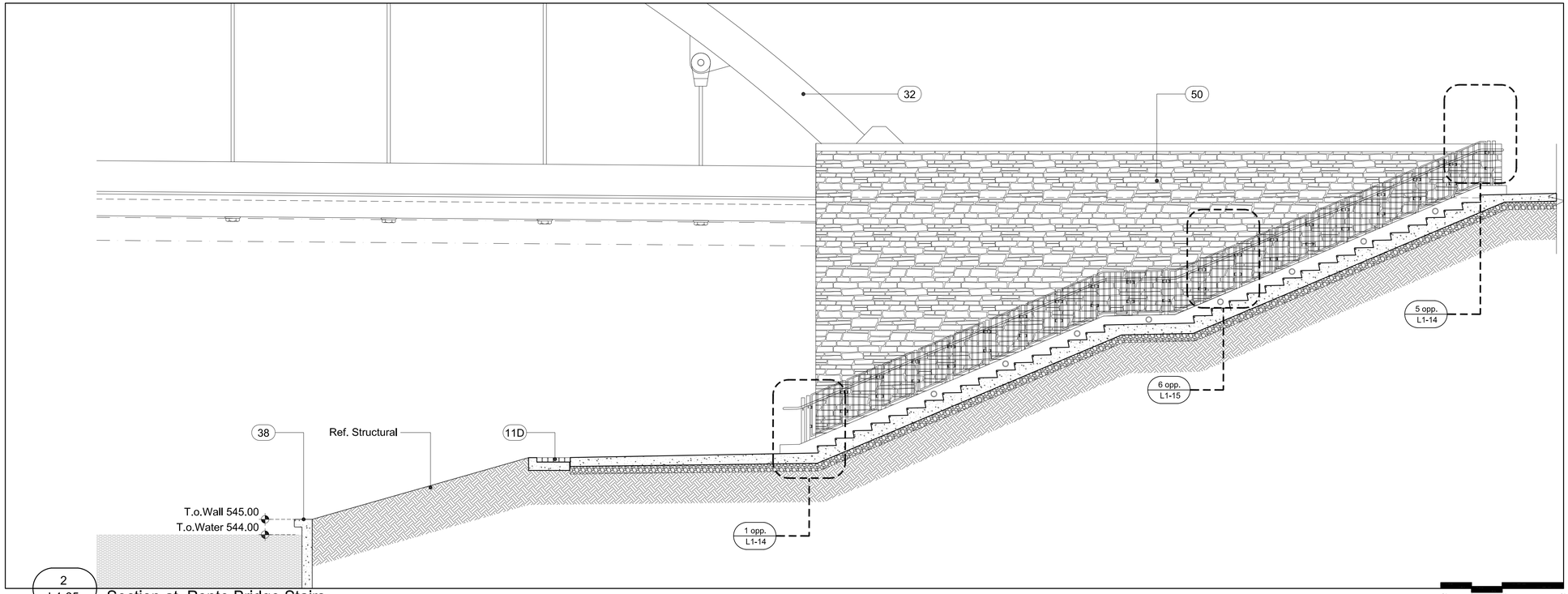
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

PONTE BRIDGE UNDER SECTION

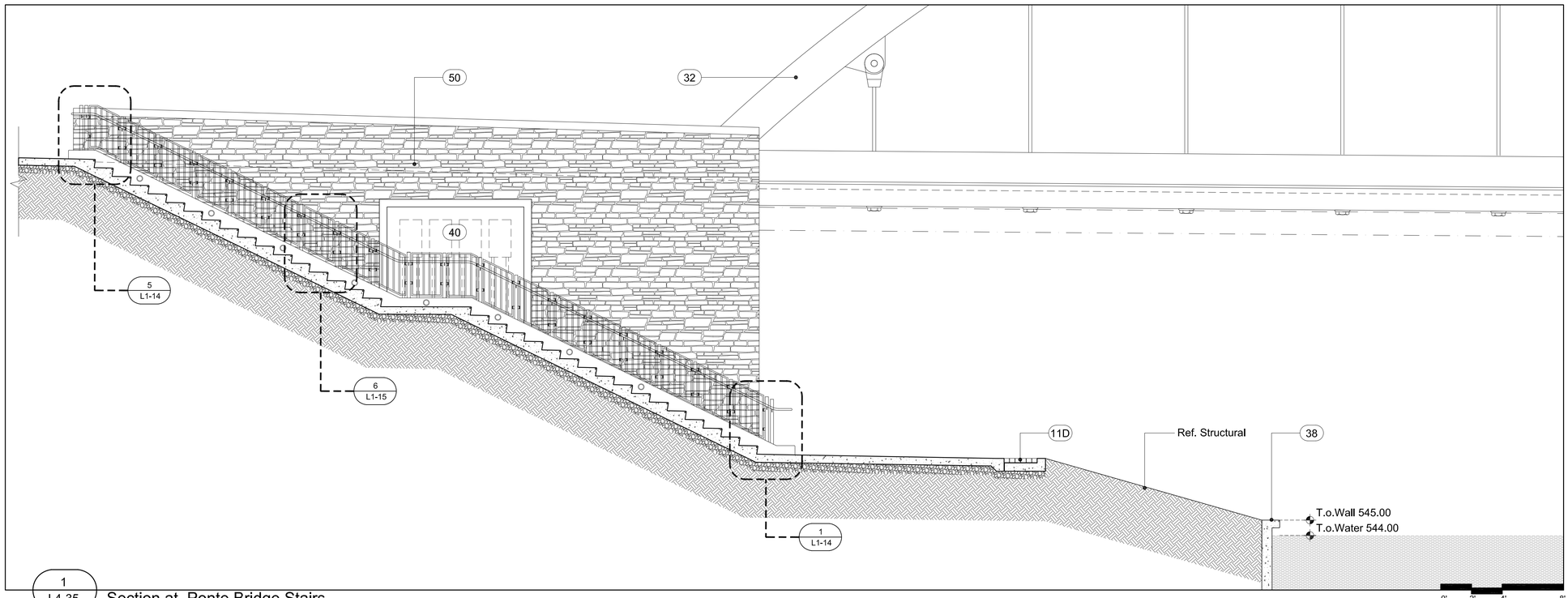
KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	MM	NOV 03, 2009 BID	PW # 2009-04	L4-34

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



2
L4-35
Section at Ponte Bridge Stairs



1
L4-35
Section at Ponte Bridge Stairs

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
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4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier; Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

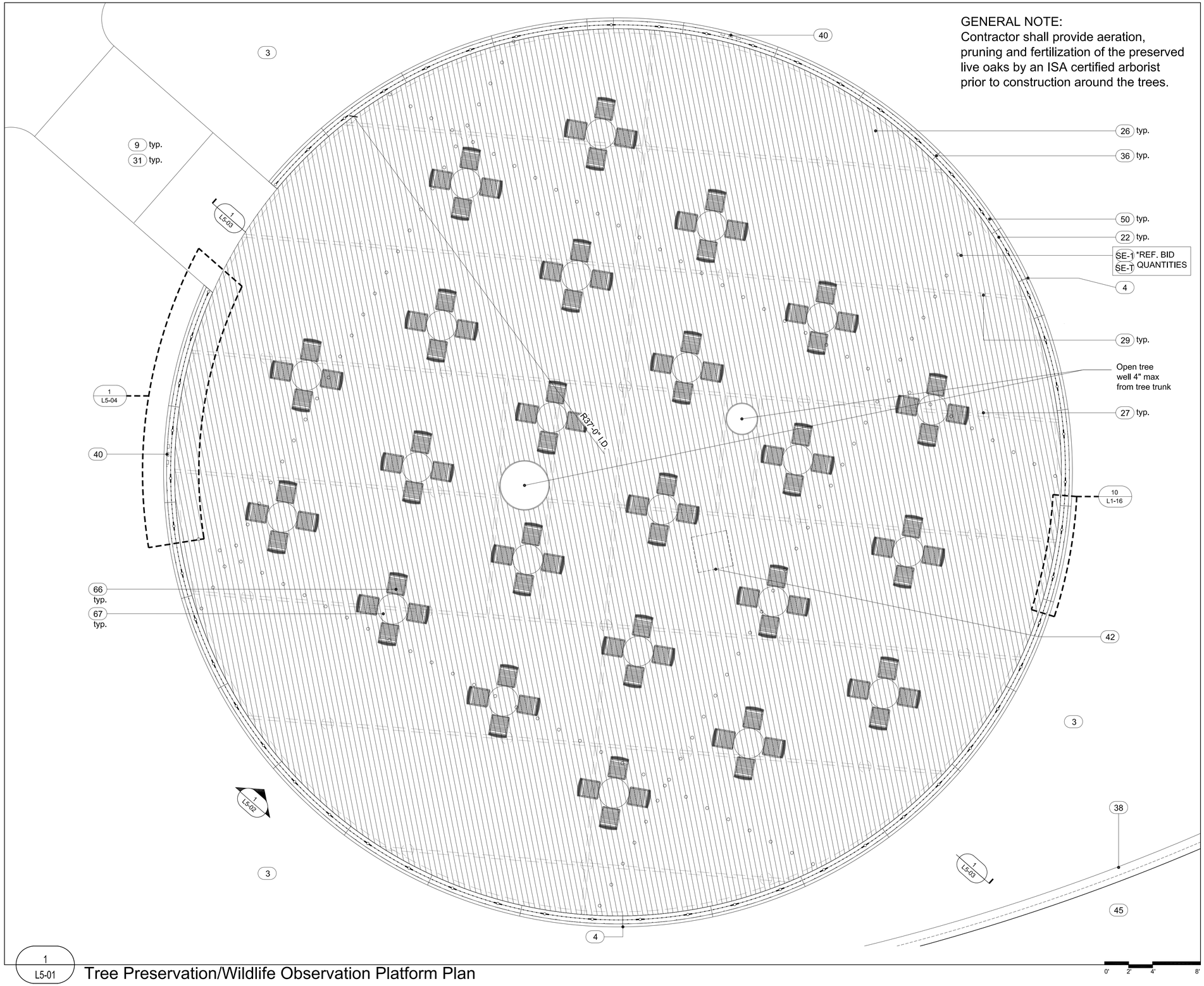
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

PONTE BRIDGE STAIR SECTIONS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	MM	NOV 03, 2009 BID	PW # 2009-04	L4-35

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



1 L5-01 Tree Preservation/Wildlife Observation Platform Plan

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
3. Planting Area: Ref. L10-00's & L11-00's
4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
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12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
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31. Concrete walkway: Ref. Civil & Structural
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33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
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47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT KEVIN W. SLOAN 2296 STATE OF TEXAS

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TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

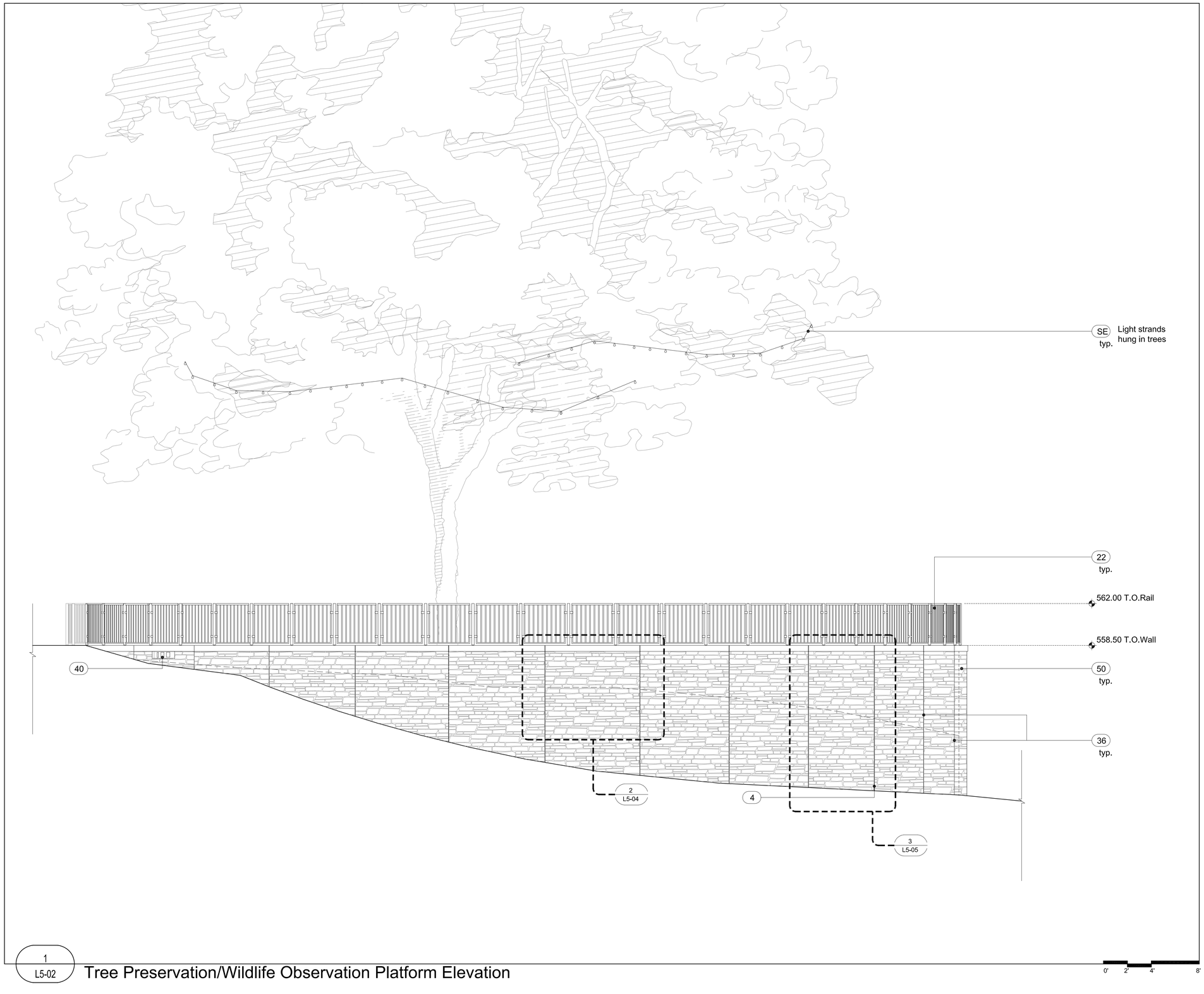
TREE PRESERVATION/WILDLIFE OBSERVATION PLATFORM PLAN

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009	PW # 2009-04	L5-01

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PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



1
L5-02

Tree Preservation/Wildlife Observation Platform Elevation

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1 Project Limit
2 Not in Contract (N.I.C.): Information provided for design intent only.
3 Planting Area: Ref. L10-00's & L11-00's
4 Expansion Joint: Ref. Civil for detail
5 Tooled Control Joint: Ref. Civil for detail
6 Concrete Paving A
7 Concrete Paving B
8 Concrete Paving C
9 Concrete Paving D
10 Concrete Wall: ref. Structural
11A Pavestone Concrete Paver A
11B Pavestone Concrete Paver B
11C Pavestone Concrete Paver C
11D Pavestone Concrete Paver D
11E Pavestone Concrete Paver E
12 Structural Concrete Masonry Unit Wall
13 Structural Fill: Reference Structural
14 Transformer/Switchgear: Ref. Civil
15 Drain Grate
16 Atrium Grate
17 Paver Grate
18 Metal Pergola
19 Metal Trellis
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21 Light Fixture Above
22 Metal Guard Rail
23 Metal Handrail
24 Metal Guard Rail and Handrail
25 Granite Bollard
26 Composite Decking
27 Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28 Structural Steel Beam: Ref. Structural
29 Structural Framing: Ref. Structural
30 Structural Steel Channel: Ref. Structural
31 Concrete walkway: Ref. Civil & Structural
32 Bridge: N.I.C. (Not In Contract)
33 Building Beyond: N.I.C. (Not In Contract)
34 Guardrail Beyond
35 Concrete Form Ties
36 Vertical Control Joints: Ref. Structural
37 Concrete Bench
38 Lake Edge Wall: Ref. Structural
39 Concrete Wall Beyond
40 Electrical: Ref. Civil
41 Concrete Curb - Reference structural
42 Access Panel - Reference structural
43 Vertical Control Joints: Ref. Structural
44 Concrete Weir: Reference Structural
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62 Not Used
63 Fountain Pool: Ref. Fountain Consultant
64 Fountain Water Supply Line: Reference Fountain Consultant
65 Fountain Drain Line: Reference Fountain Consultant
66 Chair
67 Table
68 Pedestal Drinking Fountain
69 Litter Receptacle
70 Bench
71 Pet Waste Disposal System
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73 Gravel
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LIGHTING

SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
SB Pole Mount - ref. Civil
SC Wall Recessed - ref. Civil
SE Suspended Strand - ref. Civil
SE-1 Suspended Strand - ref. Civil
SE-T Direct Imbedded Trans - ref. Civil
SK1 Surface Mount - ref. Civil
SK2 Surface Mount - ref. Civil
L4 Pole Mount - ref. Civil
L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

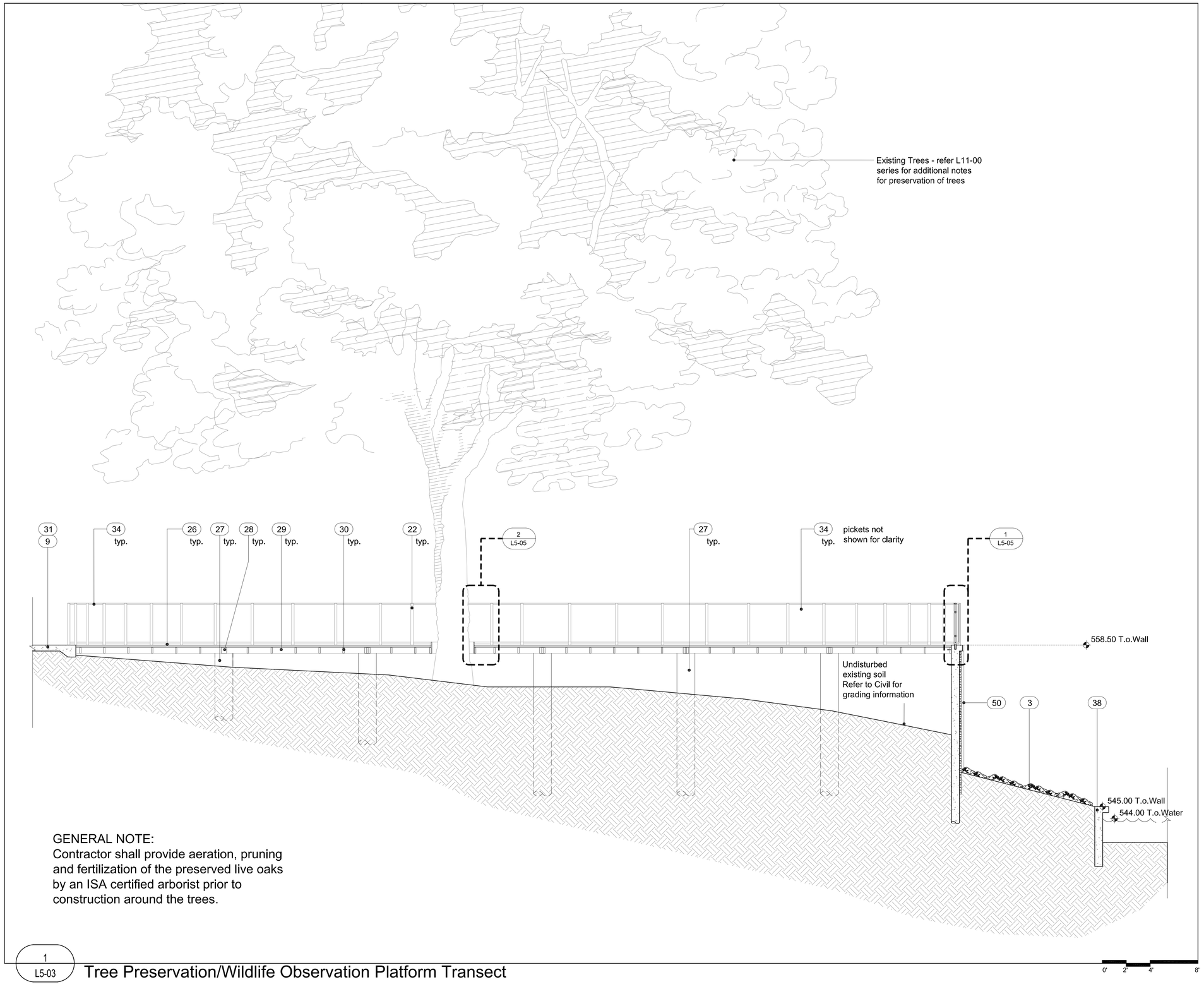
TREE PRESERVATION/WILDLIFE OBSERVATION PLATFORM - ELEVATION

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009	PW # 2009-04	L5-02

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PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



GENERAL NOTE:
Contractor shall provide aeration, pruning and fertilization of the preserved live oaks by an ISA certified arborist prior to construction around the trees.

1
L5-03

Tree Preservation/Wildlife Observation Platform Transect

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

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4 Expansion Joint: Ref. Civil for detail
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6 Concrete Paving A
7 Concrete Paving B
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10 Concrete Wall: ref. Structural
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13 Structural Fill: Reference Structural
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35 Concrete Form Ties
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40 Electrical: Ref. Civil
41 Concrete Curb - Reference structural
42 Access Panel - Reference structural
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63 Fountain Pool: Ref. Fountain Consultant
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66 Chair
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69 Litter Receptacle
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71 Pet Waste Disposal System
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LIGHTING

SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
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SC Wall Recessed - ref. Civil
SE Suspended Strand - ref. Civil
SE-1 Suspended Strand - ref. Civil
SE-T Direct Imbedded Trans - ref. Civil
SK1 Surface Mount - ref. Civil
SK2 Surface Mount - ref. Civil
L4 Pole Mount - ref. Civil
L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT KEVIN W. SLOAN 2296 STATE OF TEXAS

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Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

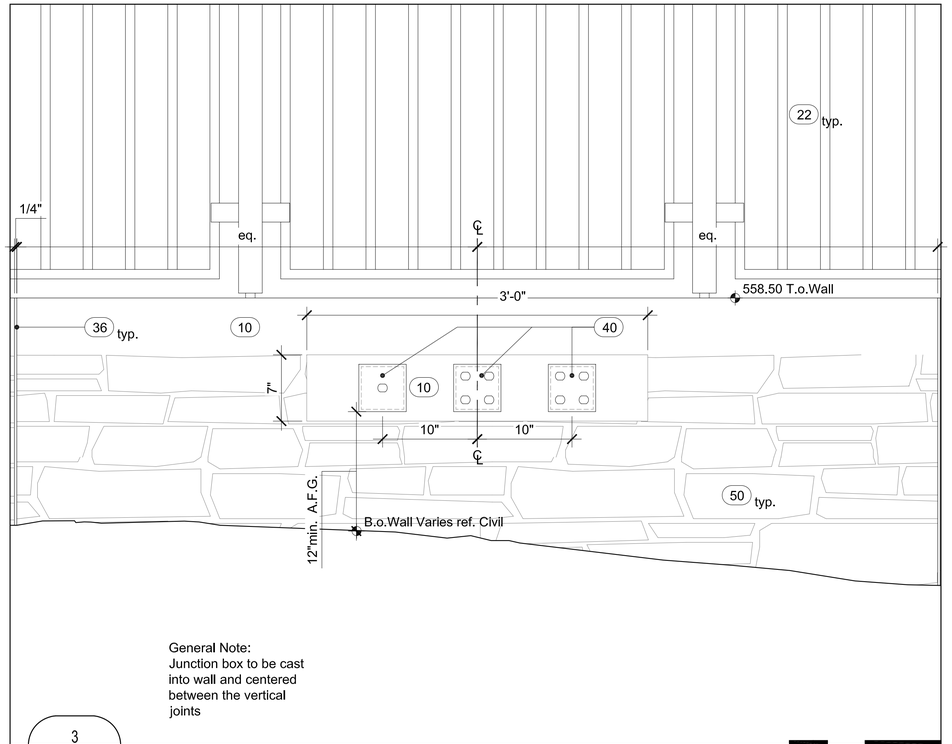
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

TREE PRESERVATION/WILDLIFE OBSERVATION PLATFORM - TRANSECT

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009 BID	PW # 2009-04	L5-03

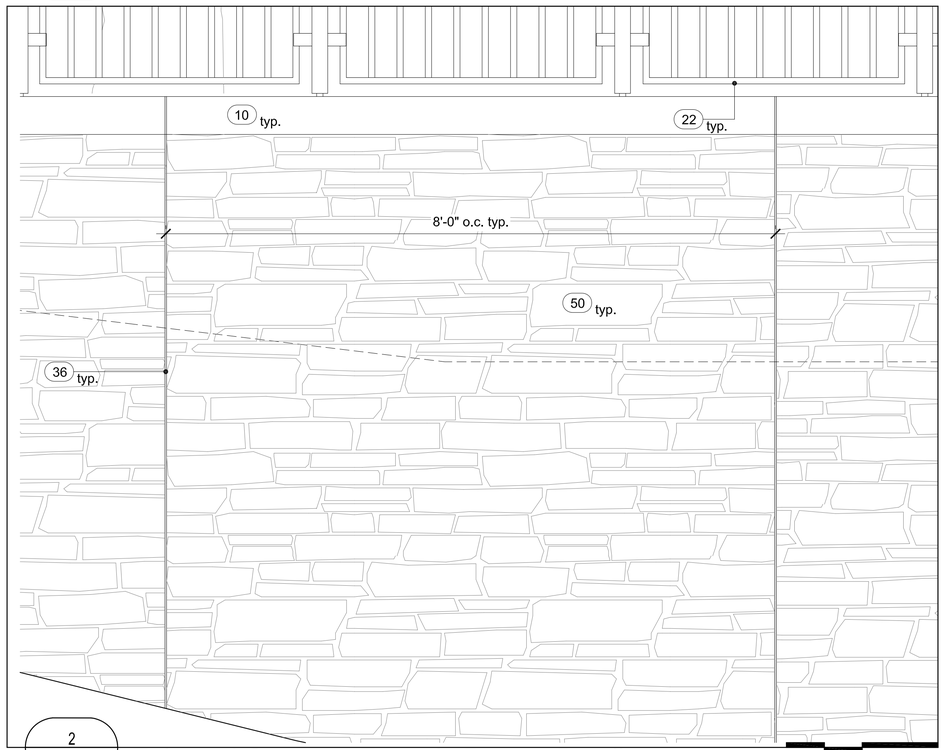
PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



3
L5-04

Enlarged Wall Electrical Outlets Detail

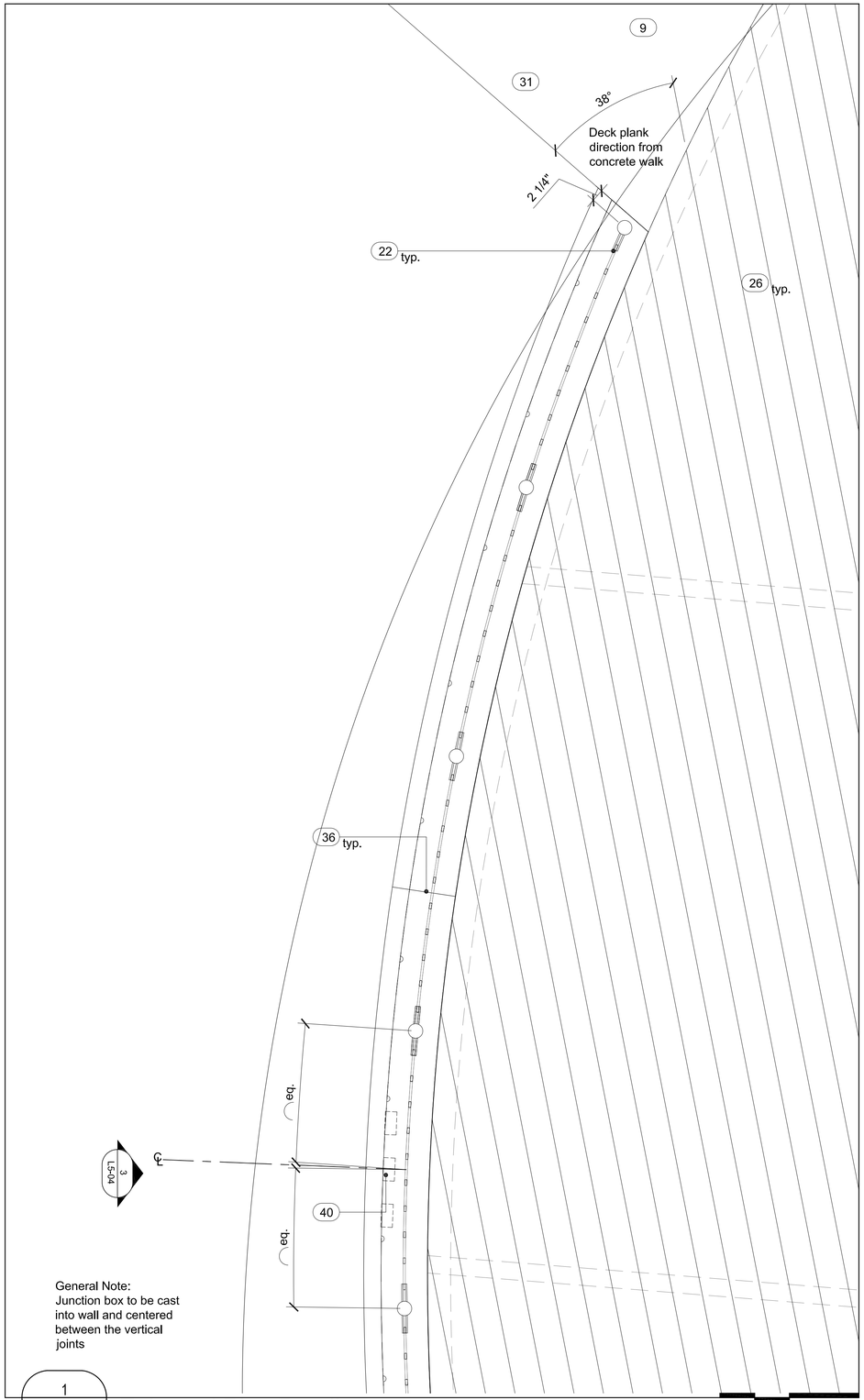
0' 4" 8" 16"



2
L5-04

Enlarged Concrete Form tie Pattern Detail

0' 6" 1' 2'



1
L5-04

Enlarged Plan Detail

0' 6" 1' 2'

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
3. Planting Area: Ref. L10-00's & L11-00's
4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison. TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

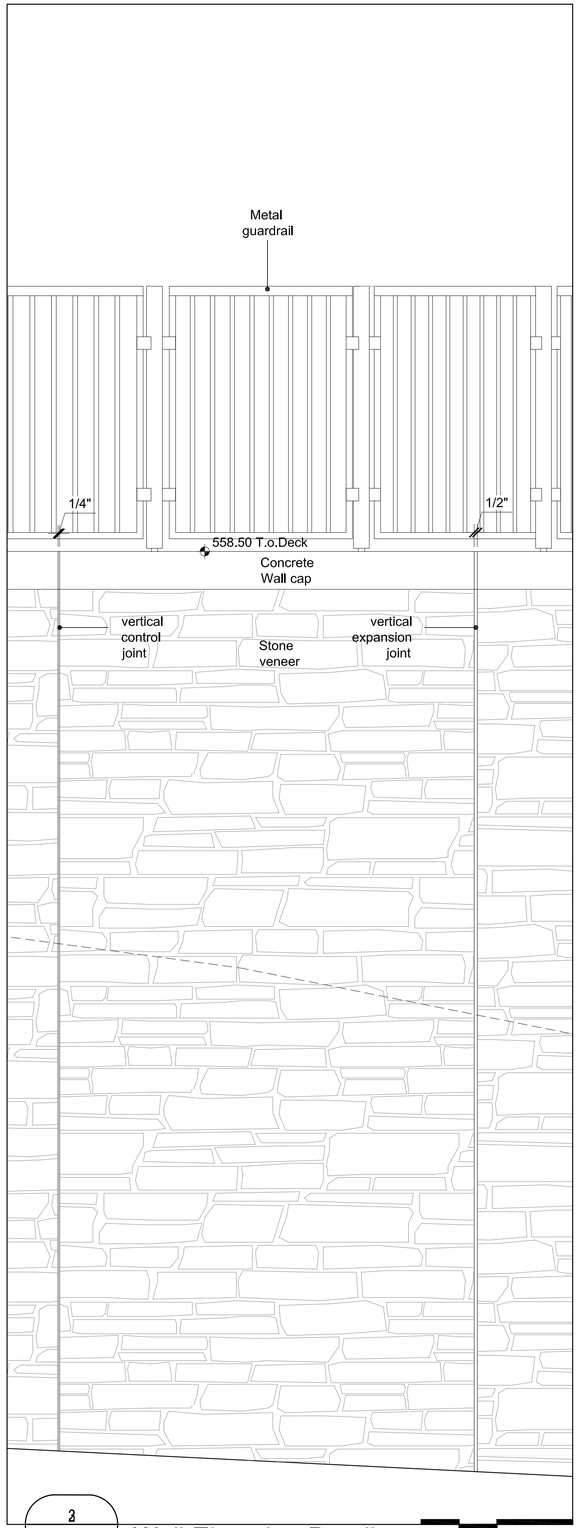
TREE PRESERVATION/WILDLIFE OBSERVATION PLATFORM - ENLARGED DETAILS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

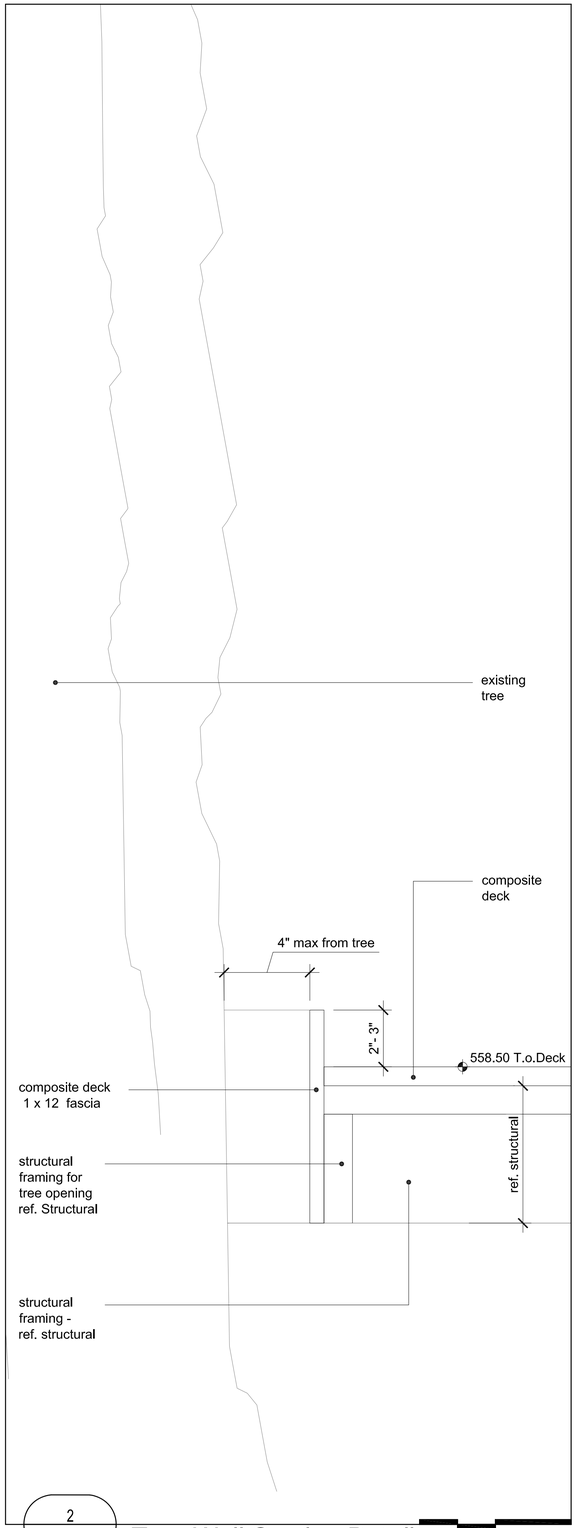
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5029-01	KWS		NOV 03, 2009	PW # 2009-04	L5-04

BID

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



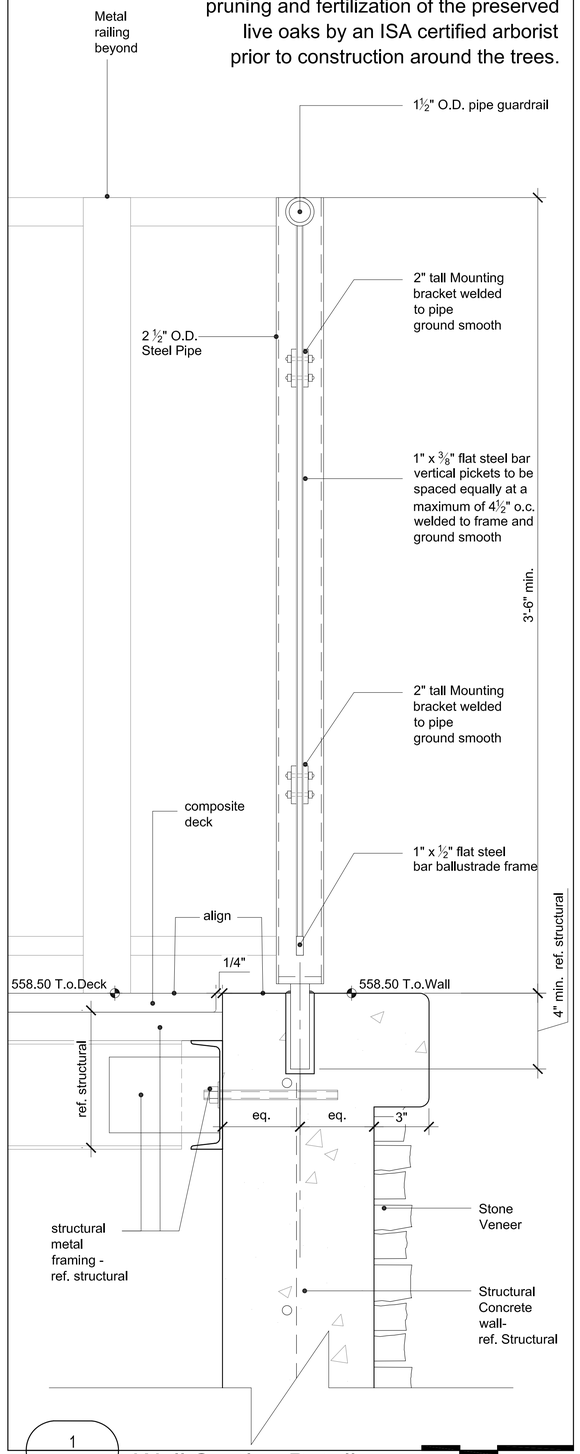
3
L5-05
Wall Elevation Detail
0' 4" 8" 16"



2
L5-05
Tree Well Section Detail
0' 4" 8" 16"

GENERAL NOTE:

Contractor shall provide aeration, pruning and fertilization of the preserved live oaks by an ISA certified arborist prior to construction around the trees.



1
L5-05
Wall Section Detail
0' 4" 8" 16"

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
3. Planting Area: Ref. L10-00's & L11-00's
4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

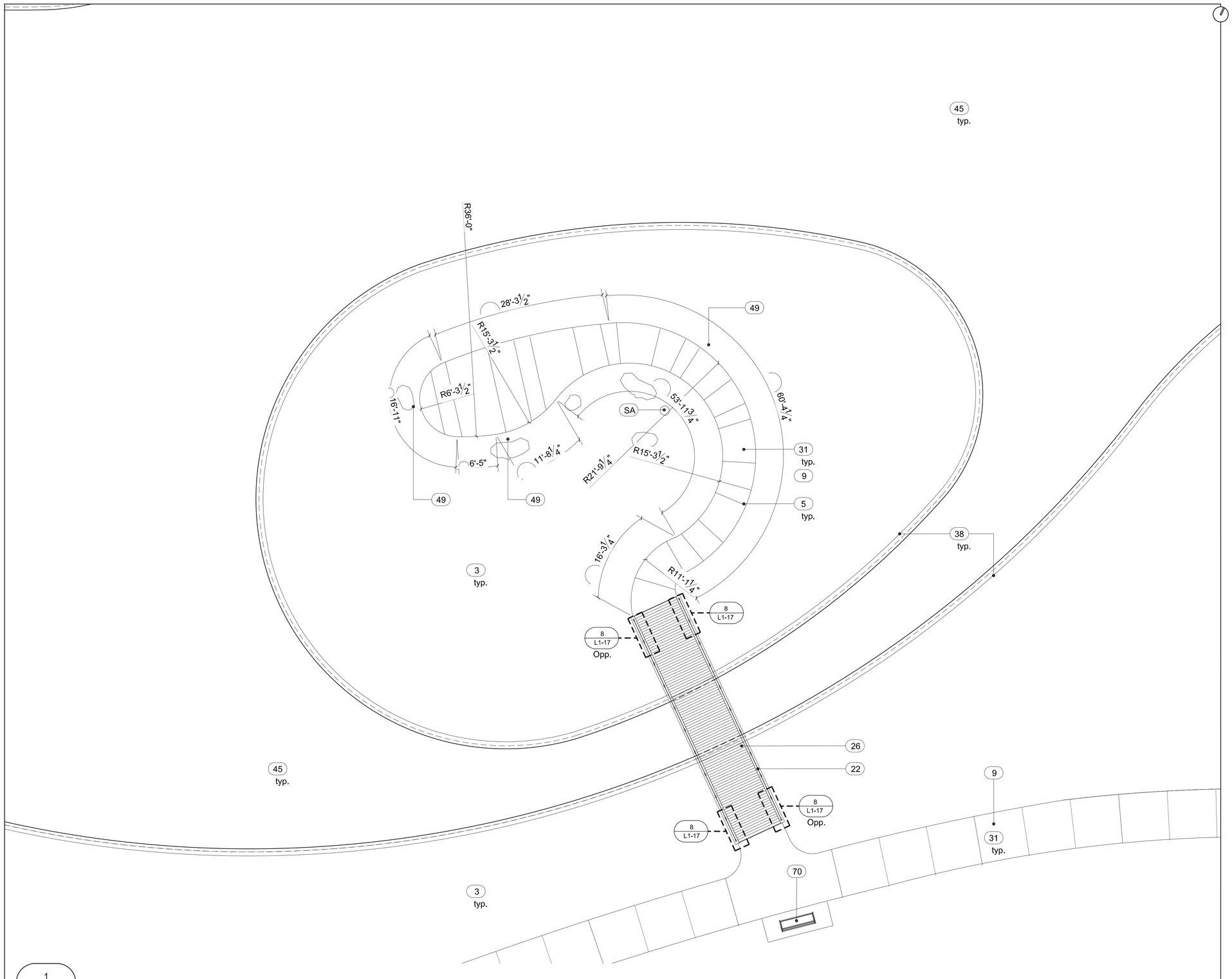
TREE PRESERVATION/WILDLIFE OBSERVATION PLATFORM WALL SECTION & DETAIL

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009	PW # 2009-04	L5-05

BID

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



1
L6-01

South Pedestrian Island Plan - Materials, Elements, & Layout

0' 3' 6' 12'

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1 Project Limit
2 Not in Contract (N.I.C.): Information provided for design intent only.
3 Planting Area: Ref. L10-00's & L11-00's
4 Expansion Joint: Ref. Civil for detail
5 Tooled Control Joint: Ref. Civil for detail
6 Concrete Paving A
7 Concrete Paving B
8 Concrete Paving C
9 Concrete Paving D
10 Concrete Wall: ref. Structural
11A Pavestone Concrete Paver A
11B Pavestone Concrete Paver B
11C Pavestone Concrete Paver C
11D Pavestone Concrete Paver D
11E Pavestone Concrete Paver E
12 Structural Concrete Masonry Unit Wall
13 Structural Fill: Reference Structural
14 Transformer/Switchgear: Ref. Civil
15 Drain Grate
16 Atrium Grate
17 Paver Grate
18 Metal Pergola
19 Metal Trellis
20 Trellis Above
21 Light Fixture Above
22 Metal Guard Rail
23 Metal Handrail
24 Metal Guard Rail and Handrail
25 Granite Bollard
26 Composite Decking
27 Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28 Structural Steel Beam: Ref. Structural
29 Structural Framing: Ref. Structural
30 Structural Steel Channel: Ref. Structural
31 Concrete walkway: Ref. Civil & Structural
32 Bridge: N.I.C. (Not In Contract)
33 Building Beyond: N.I.C. (Not In Contract)
34 Guardrail Beyond
35 Concrete Form Ties
36 Vertical Control Joints: Ref. Structural
37 Concrete Bench
38 Lake Edge Wall: Ref. Structural
39 Concrete Wall Beyond
40 Electrical: Ref. Civil
41 Concrete Curb - Reference structural
42 Access Panel - Reference structural
43 Vertical Control Joints: Ref. Structural
44 Concrete Weir: Reference Structural
45 Water
46 Hollow Metal Door and Frame
47 Existing Wooden Fence
48 Metal Gate
49 Limestone Boulder
50 Stone Veneer
60 Fully Grouted Beach Pebbles
61 Fountain: Ref. Fountain Consultant
62 Not Used
63 Fountain Pool: Ref. Fountain Consultant
64 Fountain Water Supply Line: Reference Fountain Consultant
65 Fountain Drain Line: Reference Fountain Consultant
66 Chair
67 Table
68 Pedestal Drinking Fountain
69 Litter Receptacle
70 Bench
71 Pet Waste Disposal System
72 Bike Rack
73 Gravel
74 Limestone Slab

LIGHTING

SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
SB Pole Mount - ref. Civil
SC Wall Recessed - ref. Civil
SE Suspended Strand - ref. Civil
SE-1 Suspended Strand - ref. Civil
SE-T Direct Imbedded Trans - ref. Civil
SK1 Surface Mount - ref. Civil
SK2 Surface Mount - ref. Civil
L4 Pole Mount - ref. Civil
L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison. TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

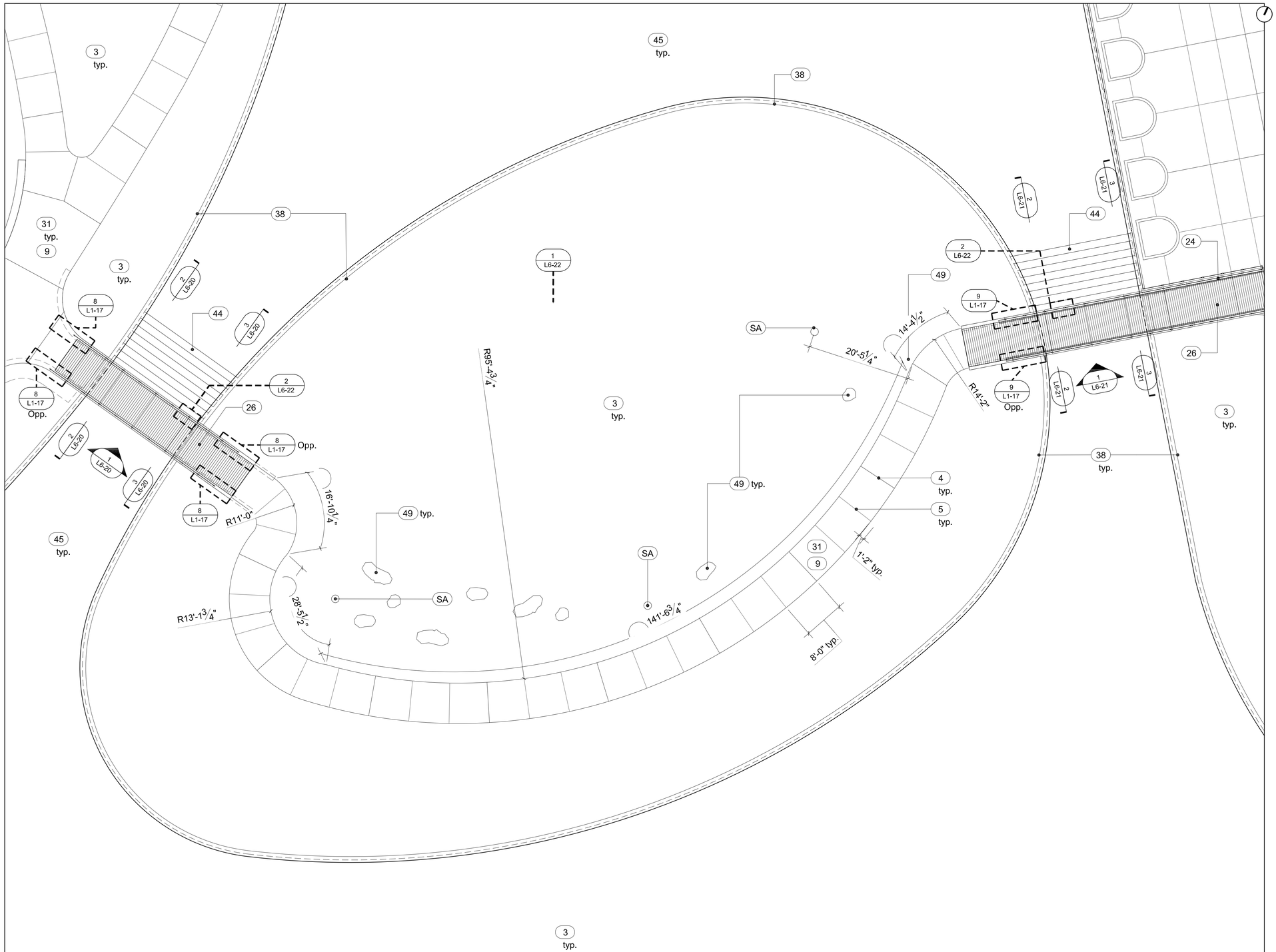
SOUTHERN PEDESTRIAN ISLAND PLAN - MATERIALS, ELEMENTS, & LAYOUT

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009	PW # 2009-04	L6-01

BID

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



1
L6-02

North Pedestrian Island Plan - Materials, Elements & Layout

0' 5' 10' 20'

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
3. Planting Area: Ref. L10-00's & L11-00's
4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

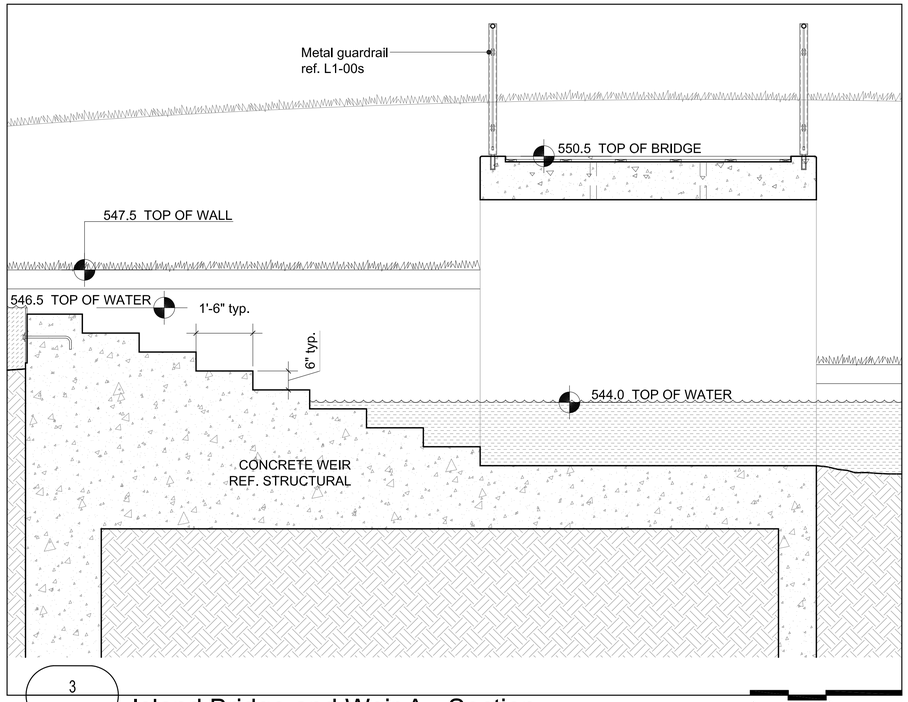
NORTHERN PEDESTRIAN ISLAND PLAN - MATERIALS, ELEMENTS, & LAYOUT

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009	PW # 2009-04	L6-02

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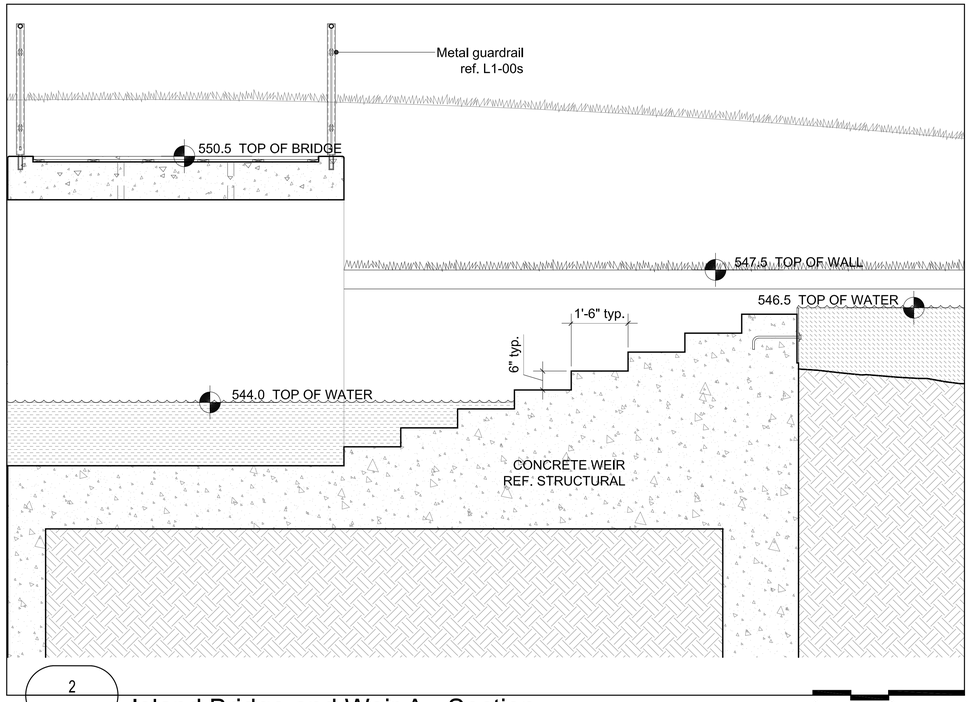
PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



3
L6-20

Island Bridge and Weir A - Section

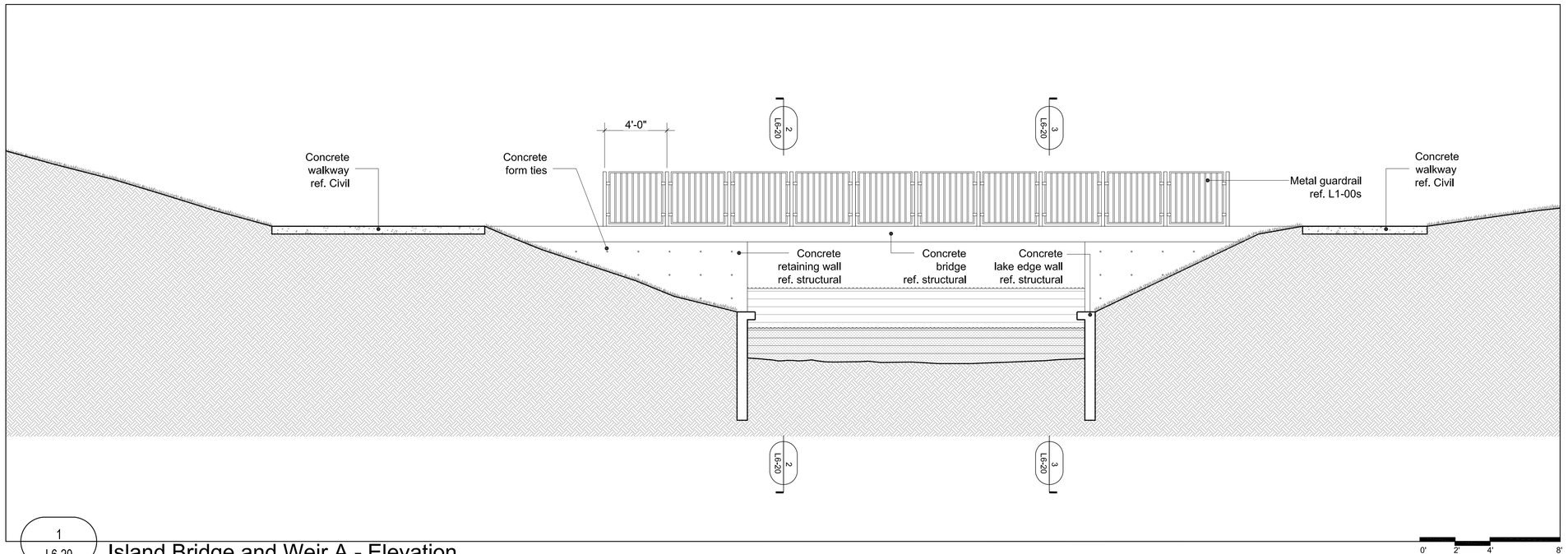
0' 1' 2' 4'
Scale 1/2" = 1'-0"



2
L6-20

Island Bridge and Weir A - Section

0' 1' 2' 4'
Scale 1/2" = 1'-0"



1
L6-20

Island Bridge and Weir A - Elevation

0' 2' 4' 8'

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
3. Planting Area: Ref. L10-00's & L11-00's
4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
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24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
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60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
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63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT KEVIN W. SLOAN 2296 STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

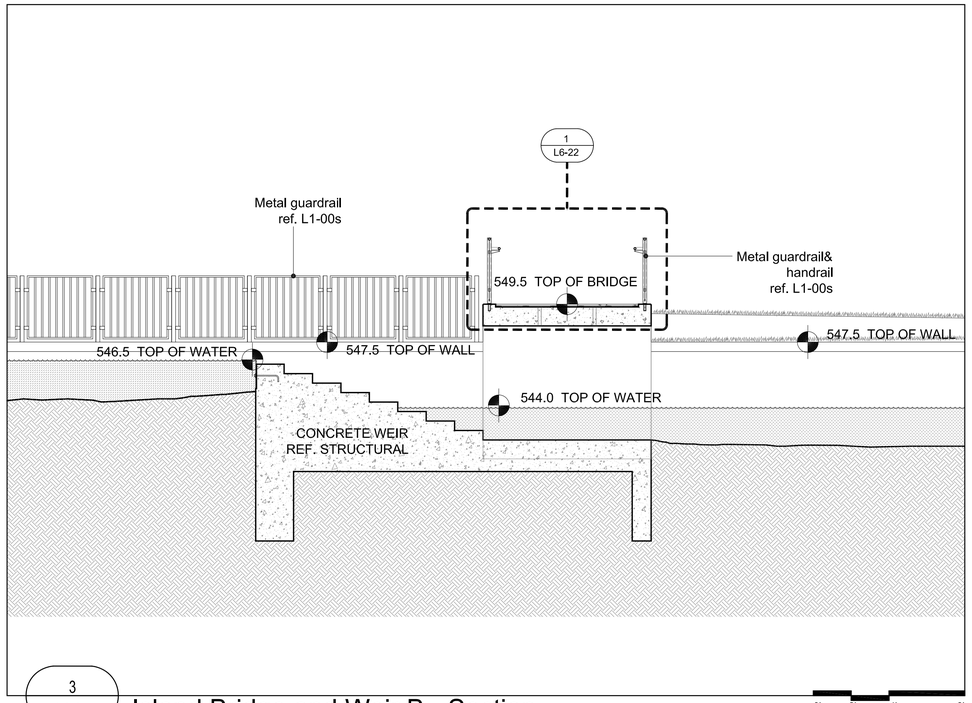
PEDESTRIAN BRIDGE ELEVATION & WEIR A DETAILS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009	PW # 2009-04	L6-20

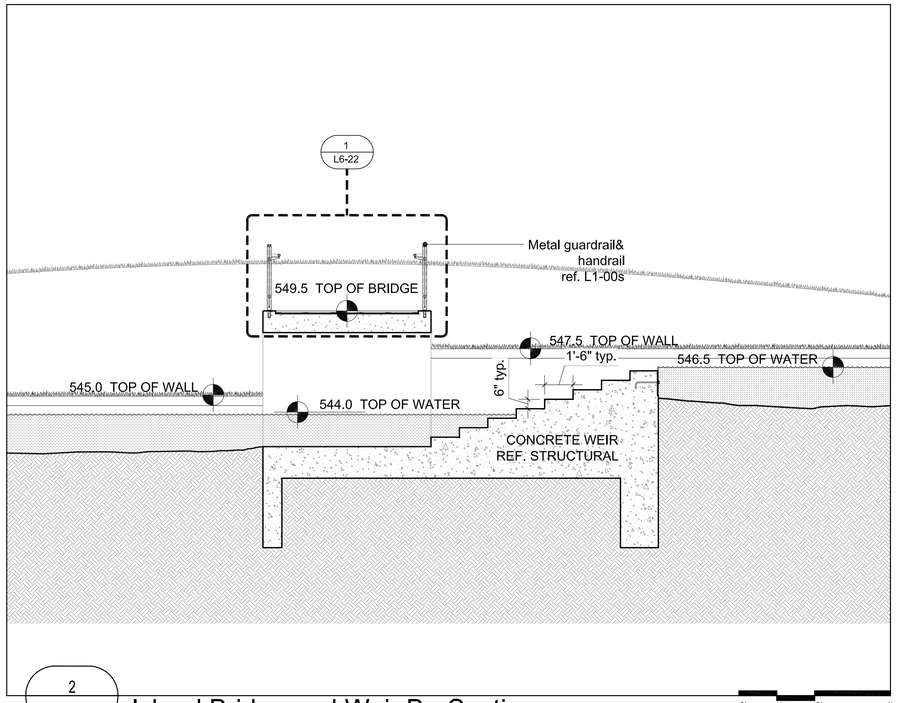
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PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



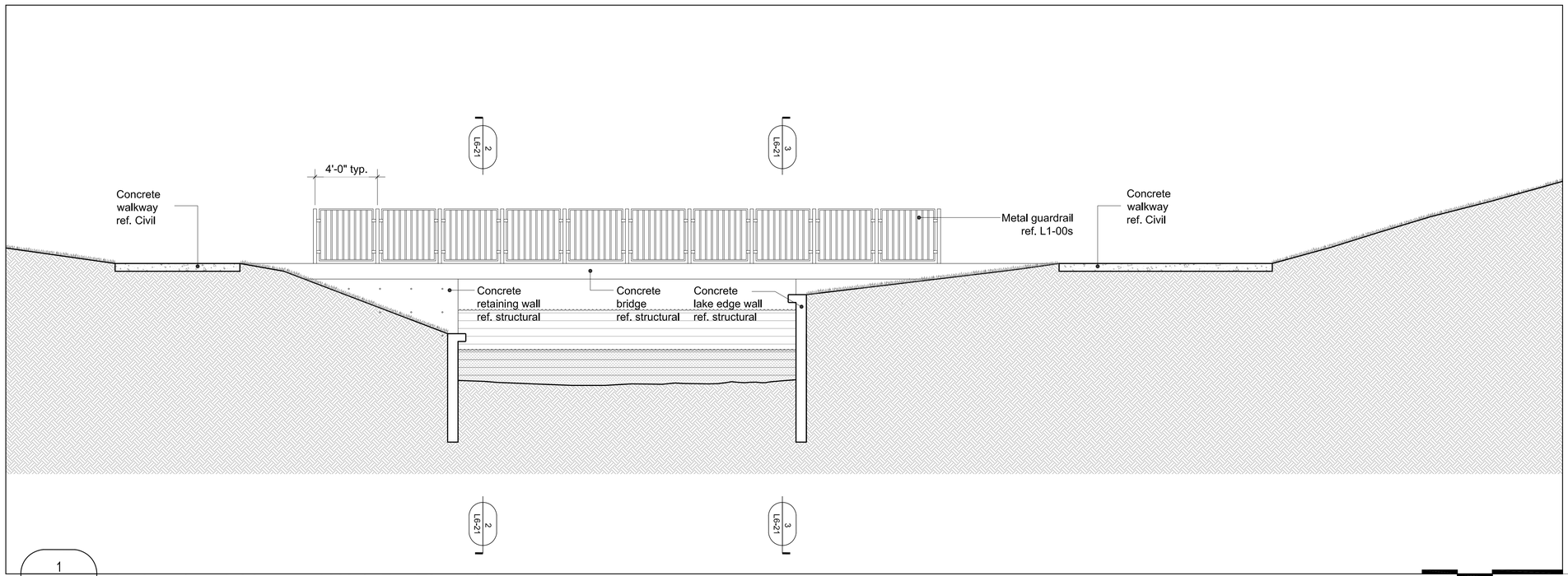
3
L6-21

Island Bridge and Weir B - Section



2
L6-21

Island Bridge and Weir B - Section



1
L6-21

Pedestrian Bridge and Weir B - Elevation

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
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11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
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34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

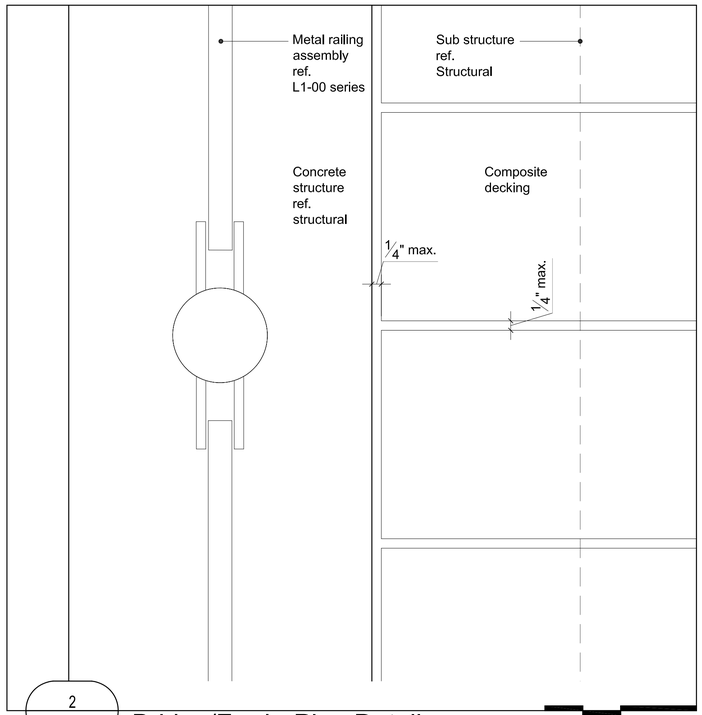
PEDESTRIAN BRIDGE ELEVATION & WEIR B DETAILS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009	PW # 2009-04	L6-21

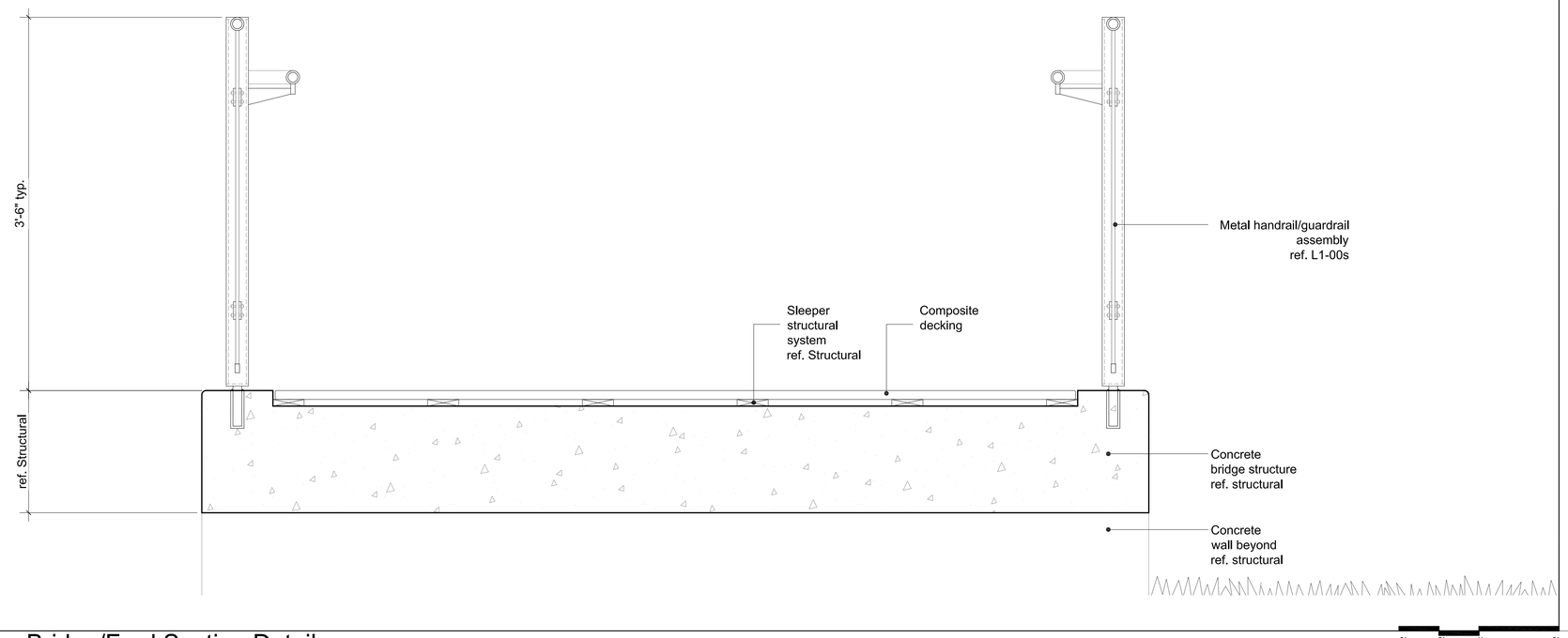
BID

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



2
L6-22

Bridge/Ford - Plan Detail



1
L6-22

Pedestrian Bridge/Ford Section Detail

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

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27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
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29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
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35. Concrete Form Ties
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39. Concrete Wall Beyond
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41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
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62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
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74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

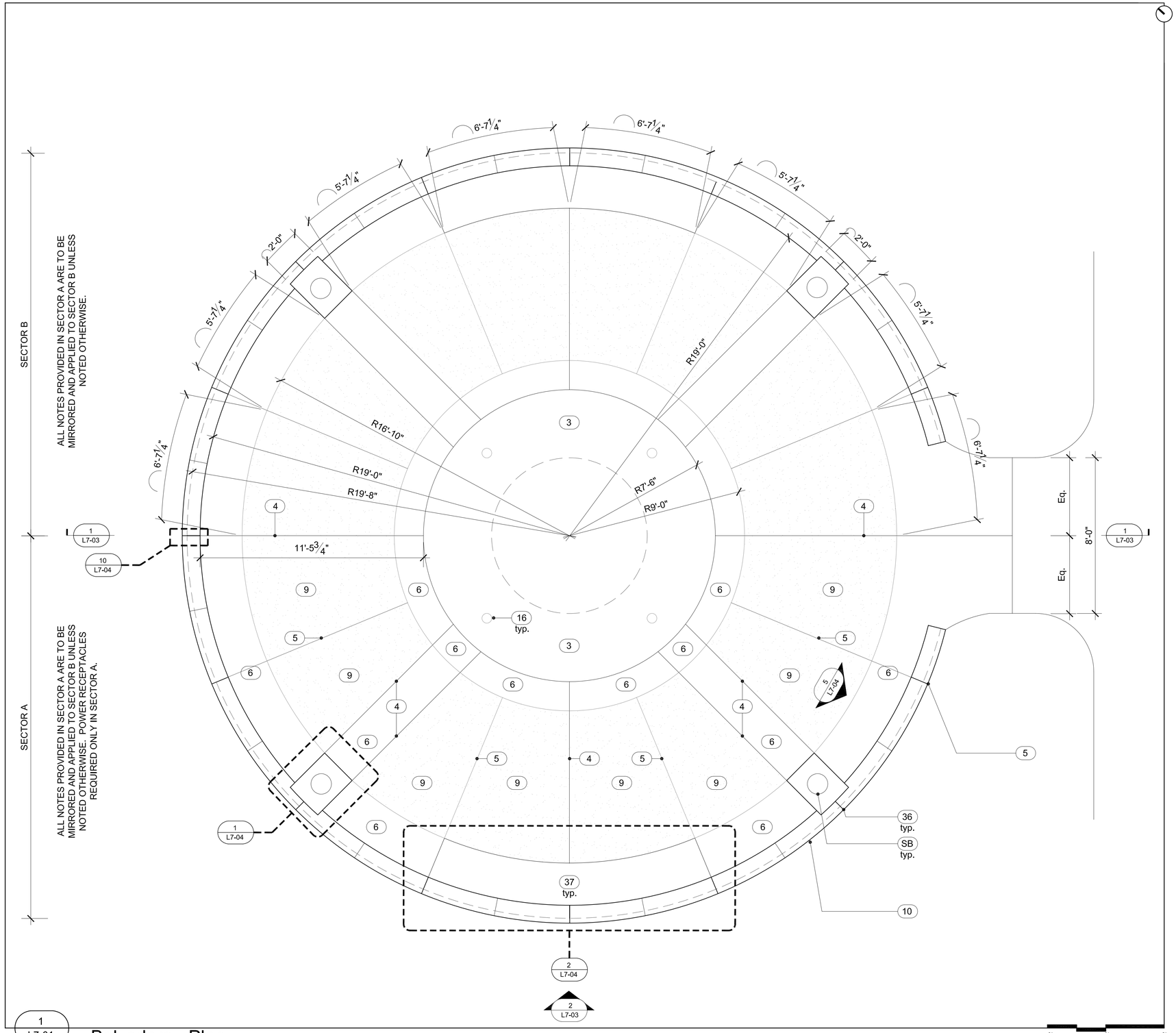
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

PEDESTRIAN BRIDGE/FORD DETAILS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009 BID	PW # 2009-04	L6-22

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



1 L7-01 Belvedere - Plan

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

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- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT KEVIN W. SLOAN 2296 STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

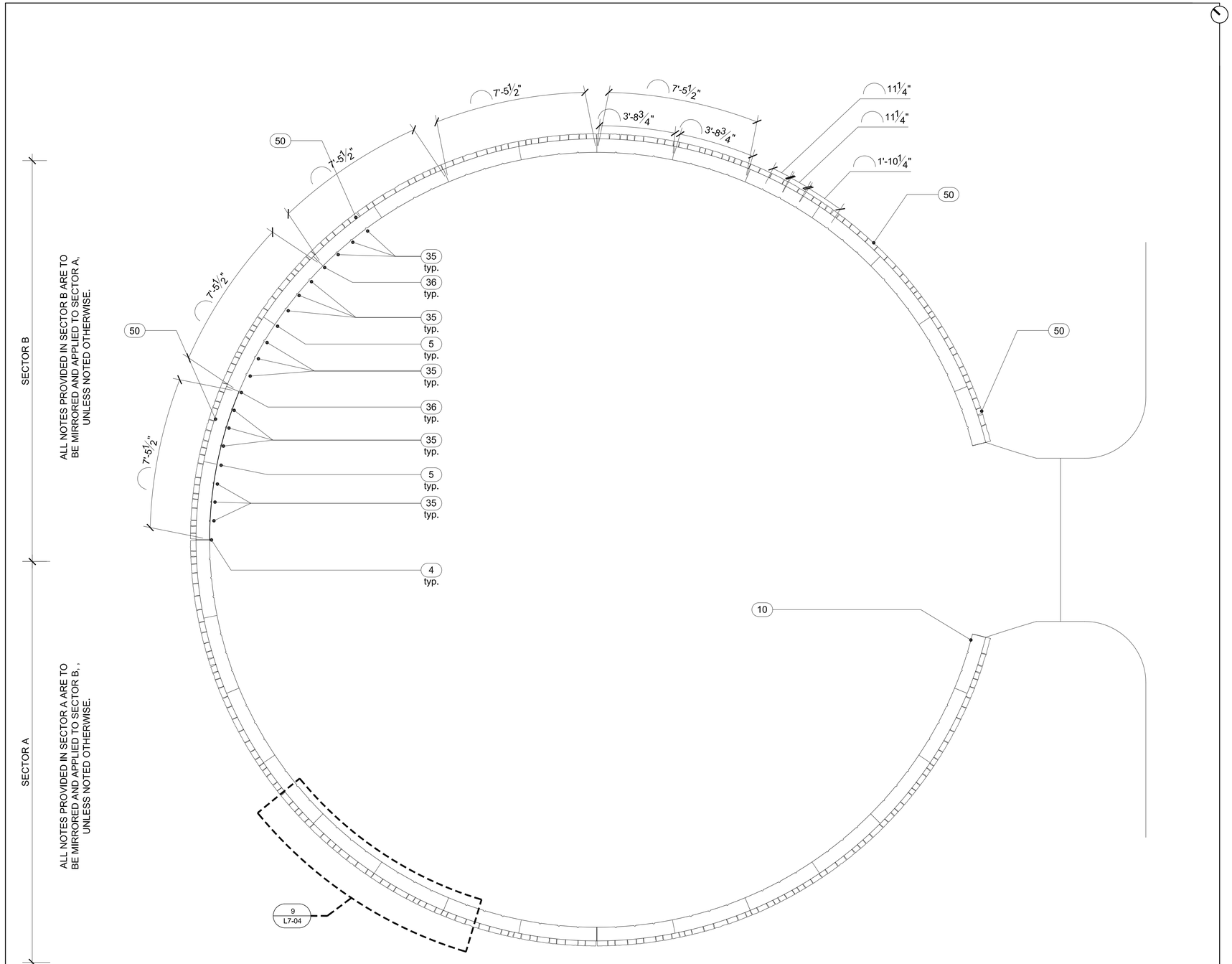
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

BELVEDERE - MATERIALS, ELEMENTS & LAYOUT

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009 BID	PW # 2009-04	L7-01

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



1
L7-02

Belvedere - Vertical Control Joint and Form Tie Spacing Plan

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

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SK2 Surface Mount - ref. Civil
L4 Pole Mount - ref. Civil
L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT KEVIN W. SLOAN 2296 STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

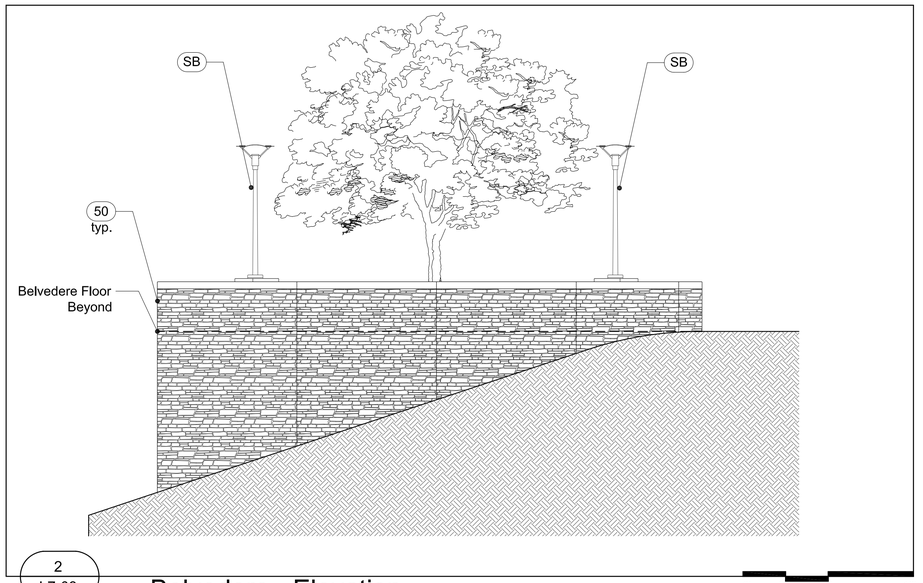
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

BELVEDERE - VERTICAL CONTROL JOINT AND FORM TIE SPACING PLAN

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009 BID	PW # 2009-04	L7-02

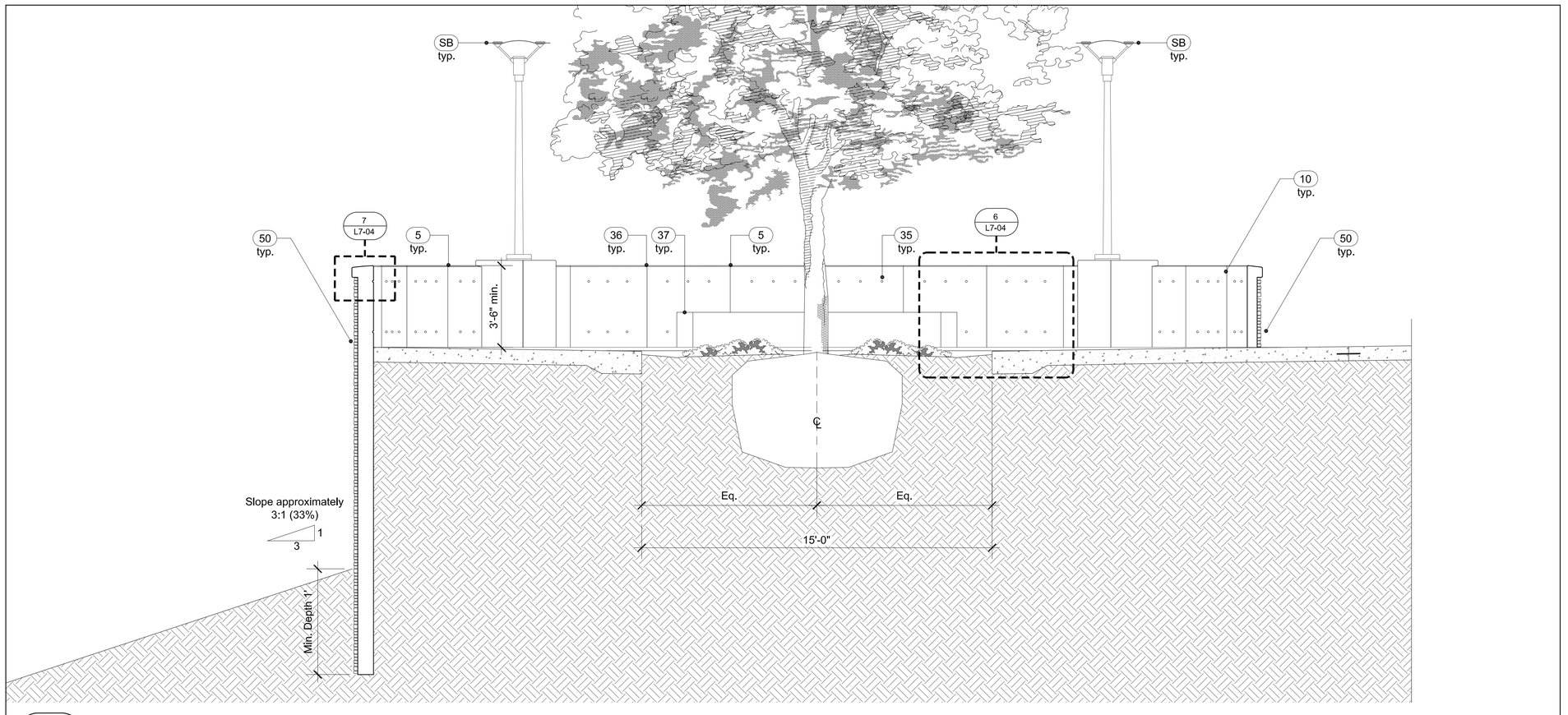
PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



2
L7-03

Belvedere - Elevation

0' 3' 6' 12'



1
L7-03

Belvedere - Section

0' 1' 2' 4'

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

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- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

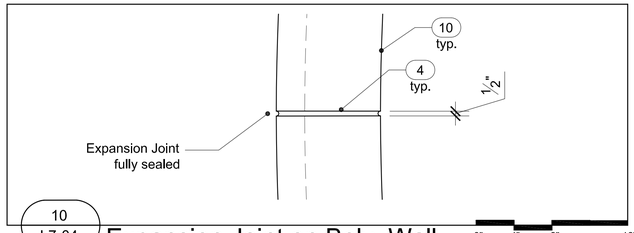
BELVEDERE - SECTIONS & DETAILS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009	PW # 2009-04	L7-03

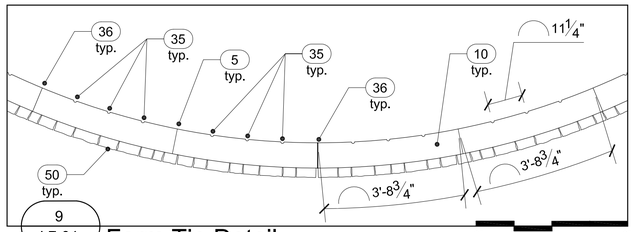
BID

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



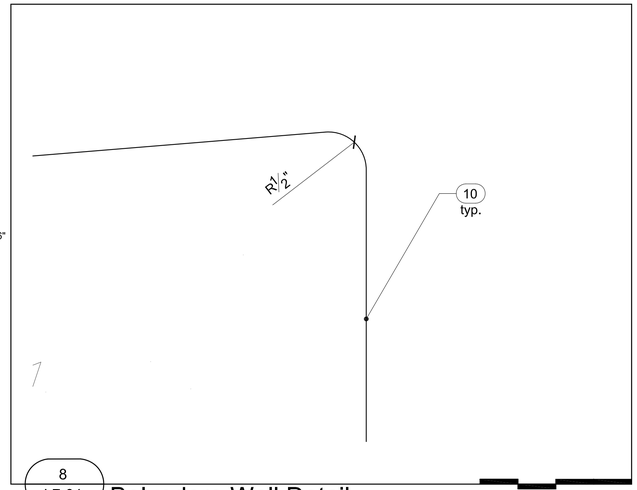
10 L7-04 Expansion Joint on Belv. Wall

0" 4" 8" 16"



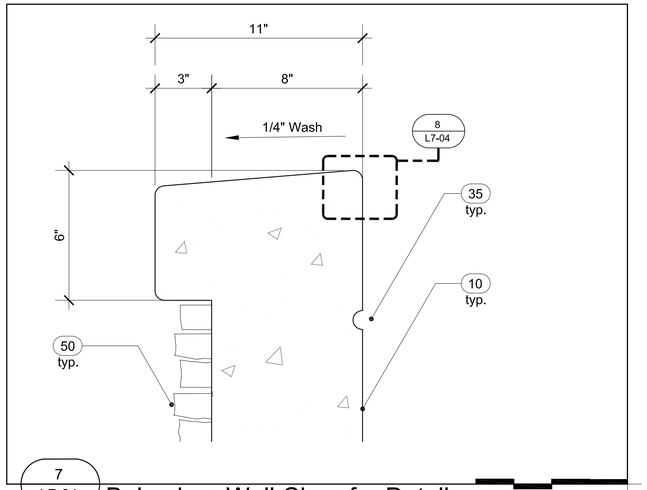
9 L7-04 Form Tie Detail

0" 2" 4" 8"



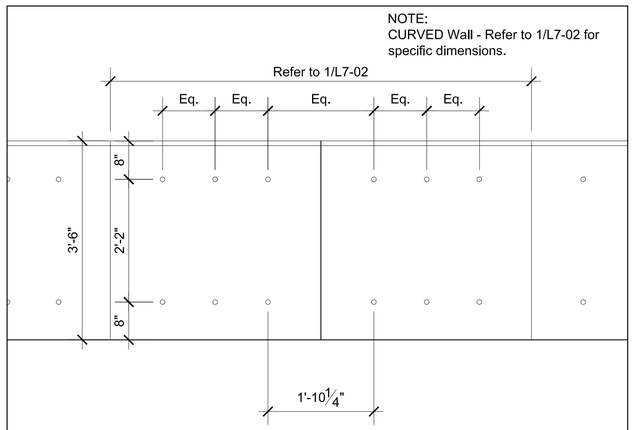
8 L7-04 Belvedere Wall Detail

0" 2" 4" 8"



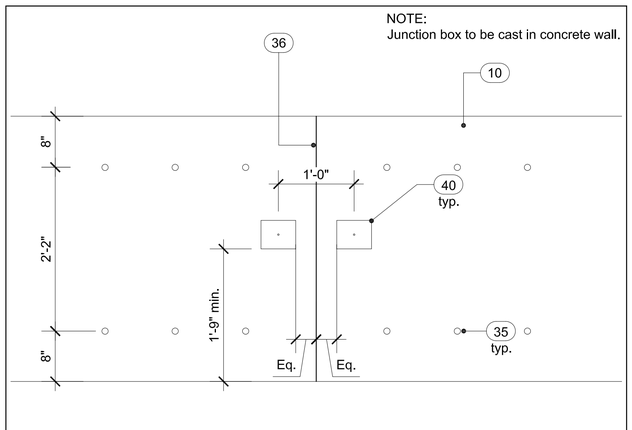
7 L7-04 Belvedere Wall Chamfer Detail

0" 6" 1' 2'



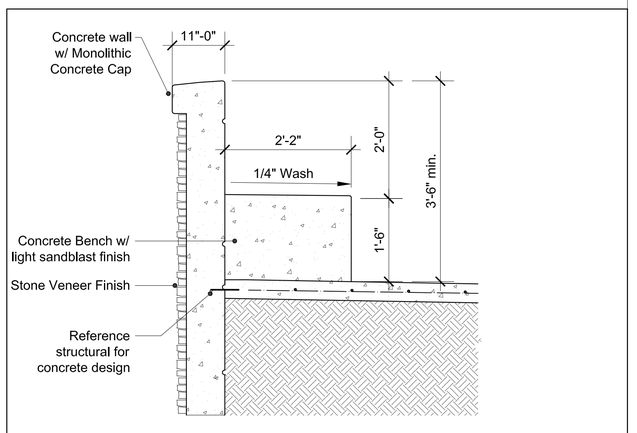
6 L7-04 Form Tie Spacing Detail

0" 8" 16" 32"



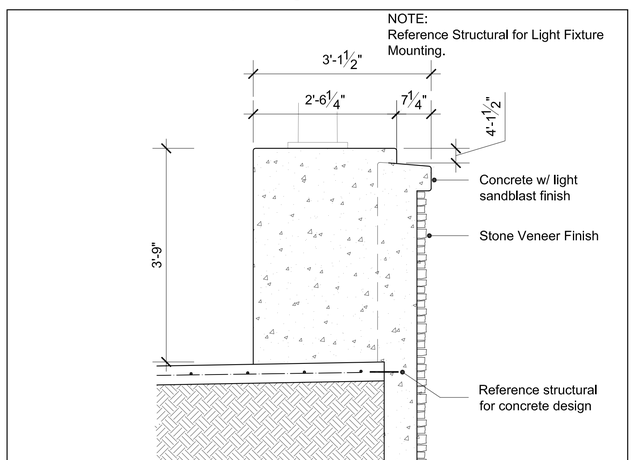
5 L7-04 Junction Box Detail

0' 1/2' 1' 2'



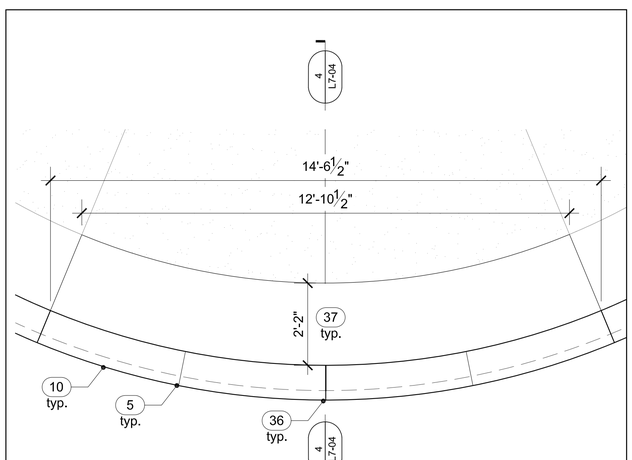
4 L7-04 Belvedere Bench - Section

0' 1/2' 1' 2'



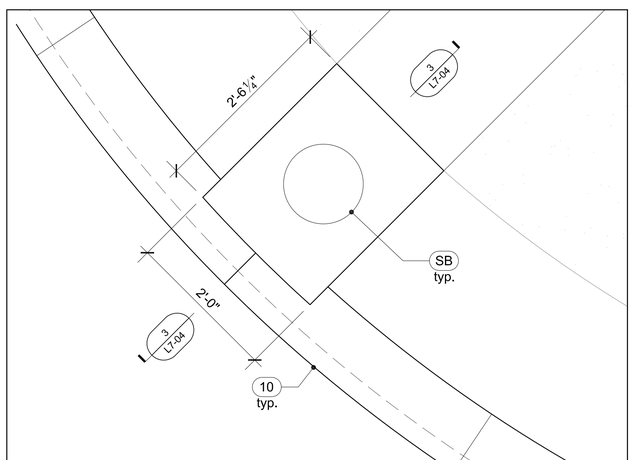
3 L7-04 Belvedere Wall Light Platform - Section

0' 1/2' 1' 2'



2 L7-04 Belvedere Bench - Plan

0' 1' 2' 4'



1 L7-04 Belvedere Wall Light Platform - Plan

0' 1/2' 1' 2'

GENERAL NOTE

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Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

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19. Metal Trellis
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26. Composite Decking
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30. Structural Steel Channel: Ref. Structural
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- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
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- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

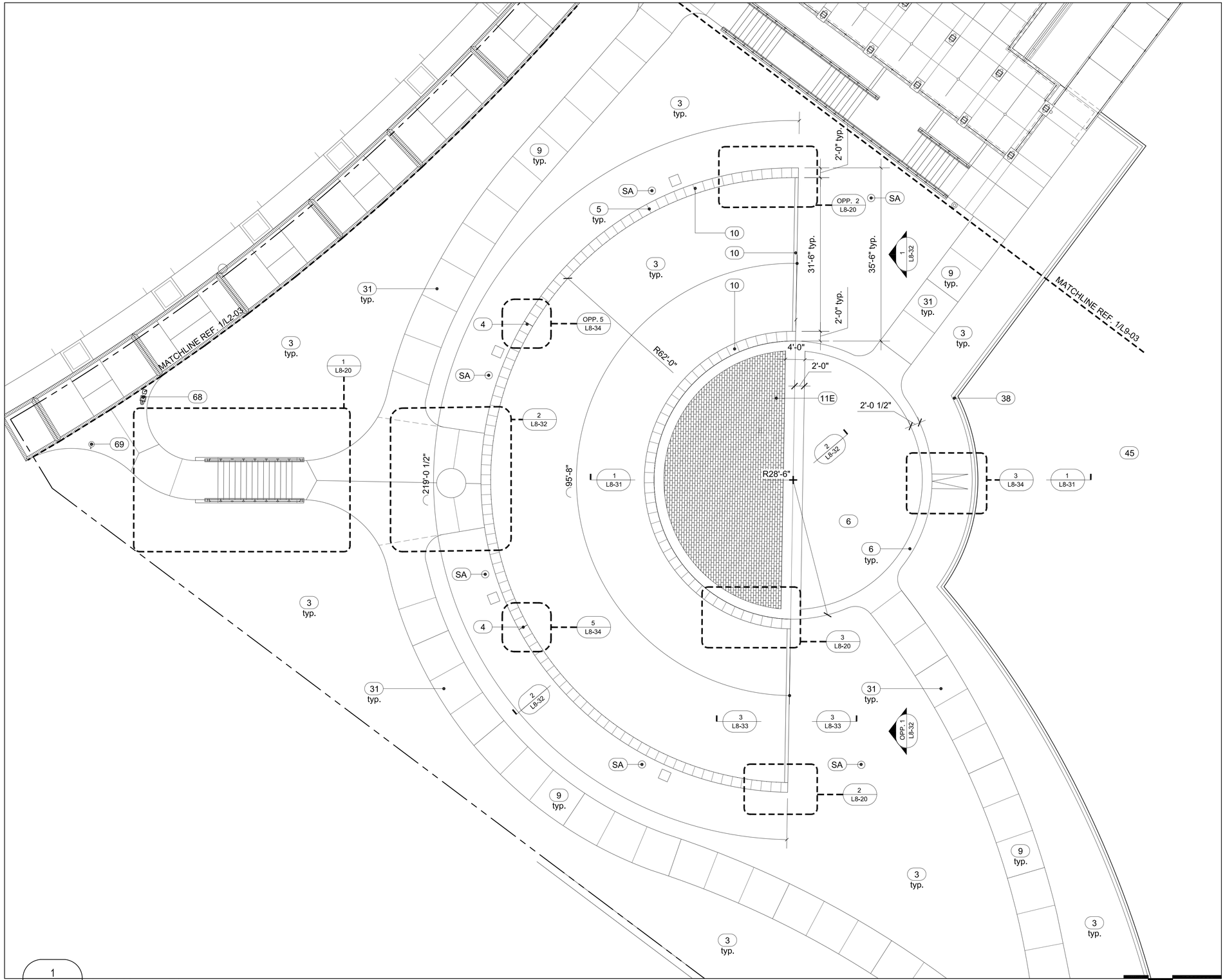
BELVEDERE - SECTIONS & DETAILS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009	PW # 2009-04	L7-04

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PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



1 L8-01 Amphitheatre Plan

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

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- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT · LEWIN W. SLOAN · 2295 · STATE OF TEXAS

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DALLAS COUNTY, TEXAS

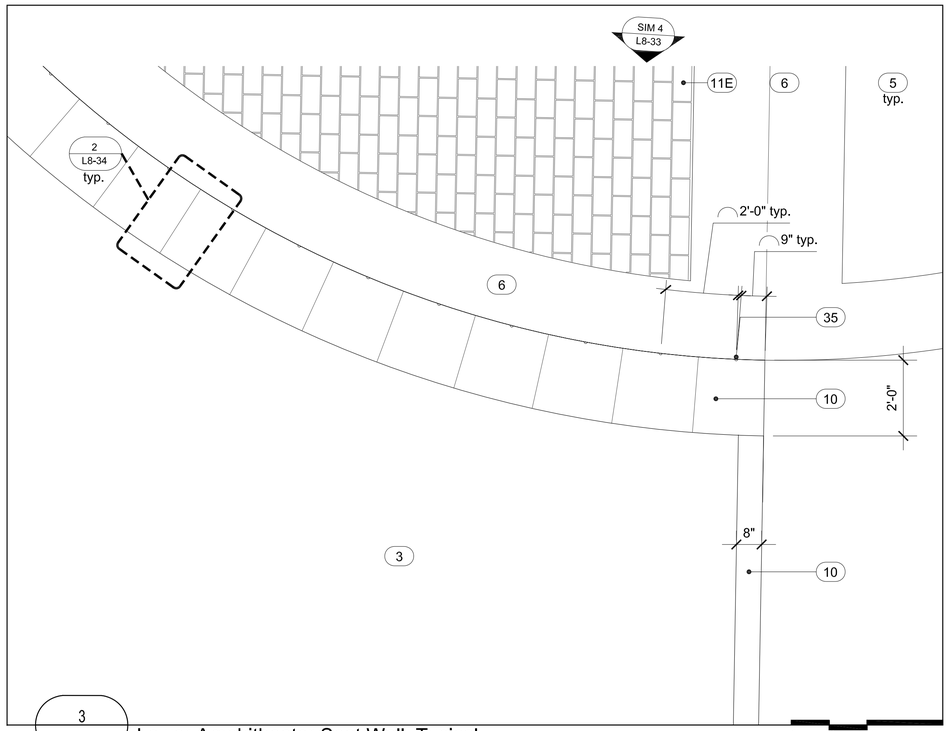
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

AMPHITHEATER - MATERIALS & LAYOUT

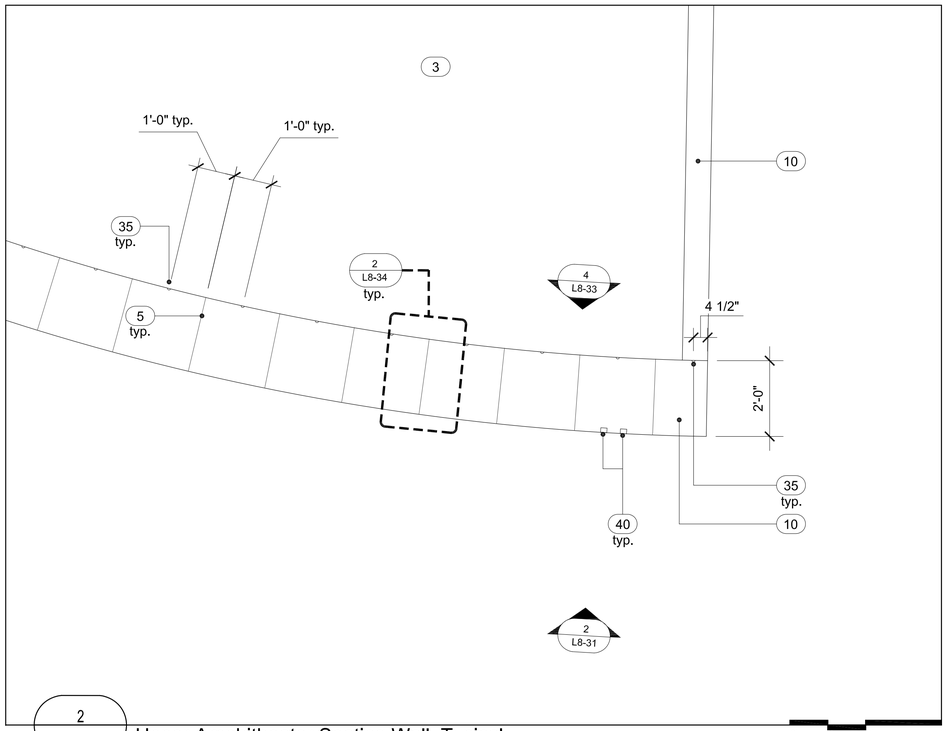
KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009 BID	PW # 2009-04	L8-01

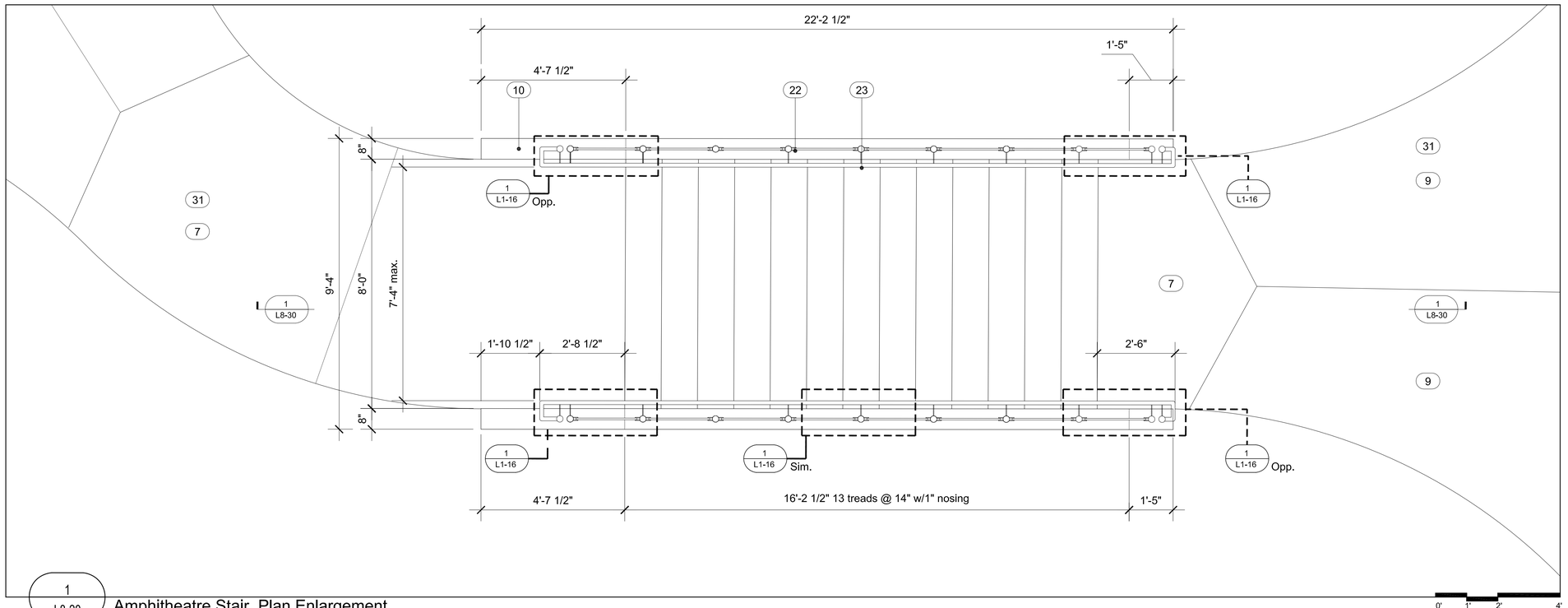
PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



3
L8-20 Lower Amphitheater Seat Wall, Typical



2
L8-20 Upper Amphitheater Seating Wall, Typical



1
L8-20 Amphitheatre Stair, Plan Enlargement

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

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SK2 Surface Mount - ref. Civil
L4 Pole Mount - ref. Civil
L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT KEVIN W. SLOAN 2296 STATE OF TEXAS

NO.	REVISION	BY	DATE

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DALLAS COUNTY, TEXAS

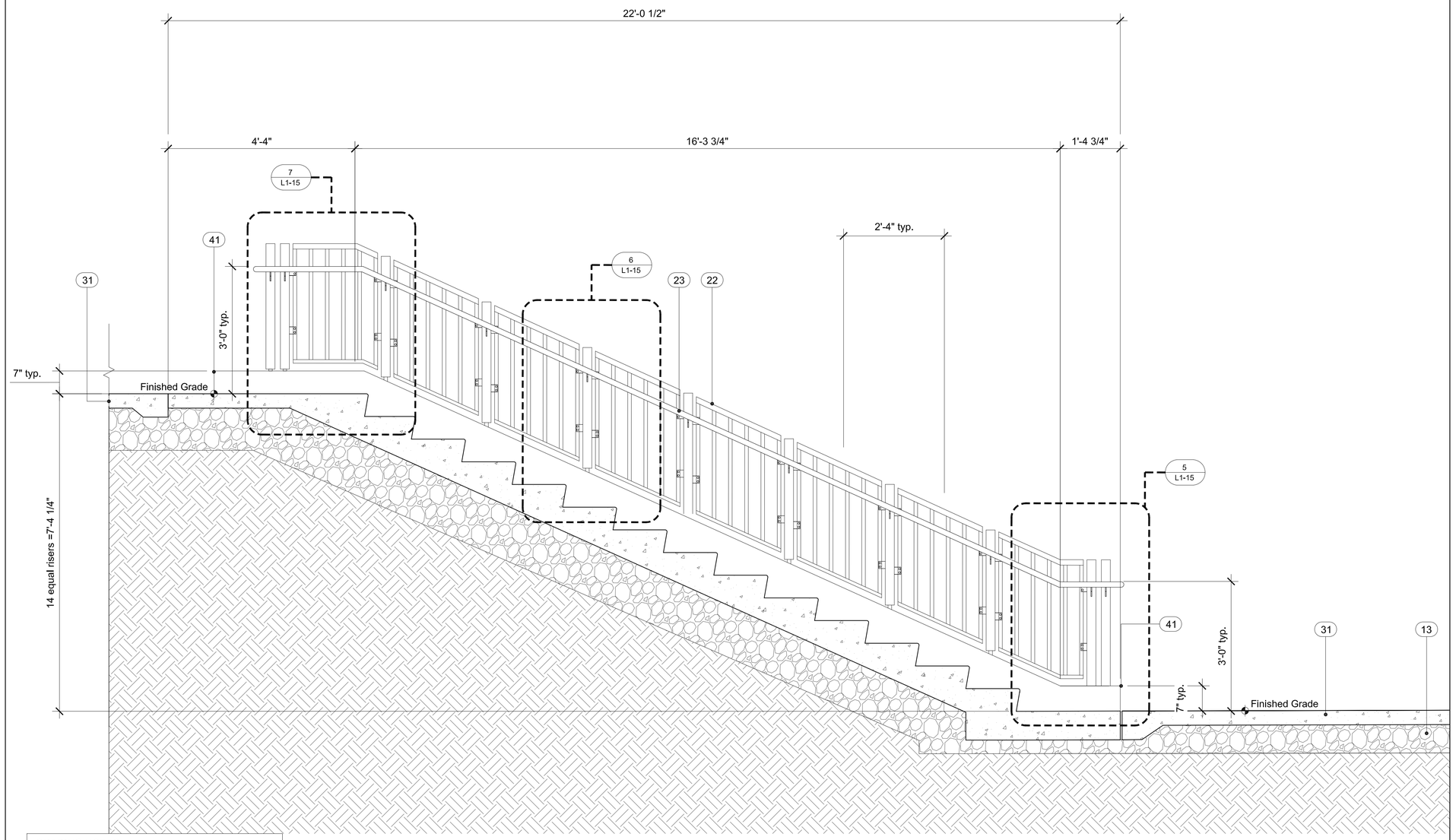
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

AMPHITHEATER - PLAN ENLARGEMENTS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009 BID	PW # 2009-04	L8-20

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



GRADING NOTES:

1. No walk or ramp cross slopes shall exceed 2.0%.
2. No walk longitudinal slope shall exceed 5.0%.
3. No ramp longitudinal slope shall exceed 8.33%.
4. Curb ramps shall be constucted at a maximum longitudinal slope of 8.33% and a maximum cross slopes of 2.0%. Length to be determined in field.
5. Refer to Civil Engineer drawings for grading information.

1
L8-30

Amphitheatre Staircase Section, Typical

0' 8" 16" 32"
Scale in INCHES

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

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SK1 Surface Mount - ref. Civil
SK2 Surface Mount - ref. Civil
L4 Pole Mount - ref. Civil
L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison. TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

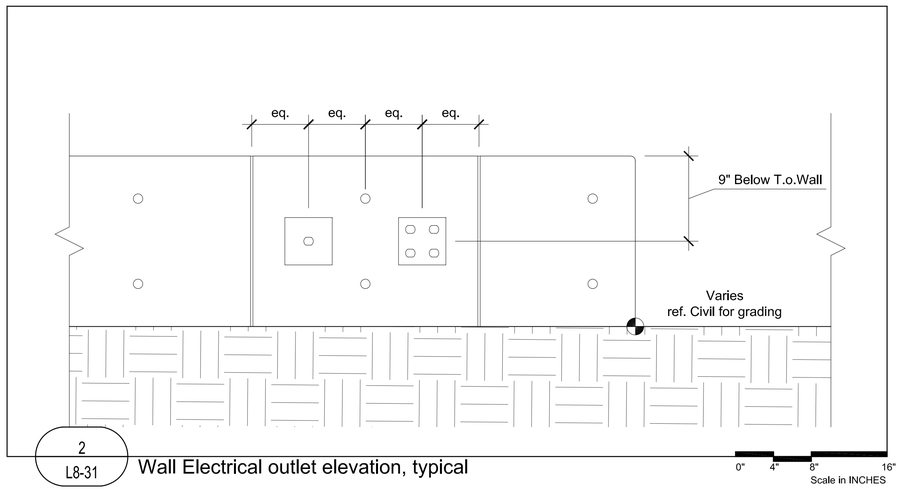
AMPHITHEATER STAIRCASE SECTION

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

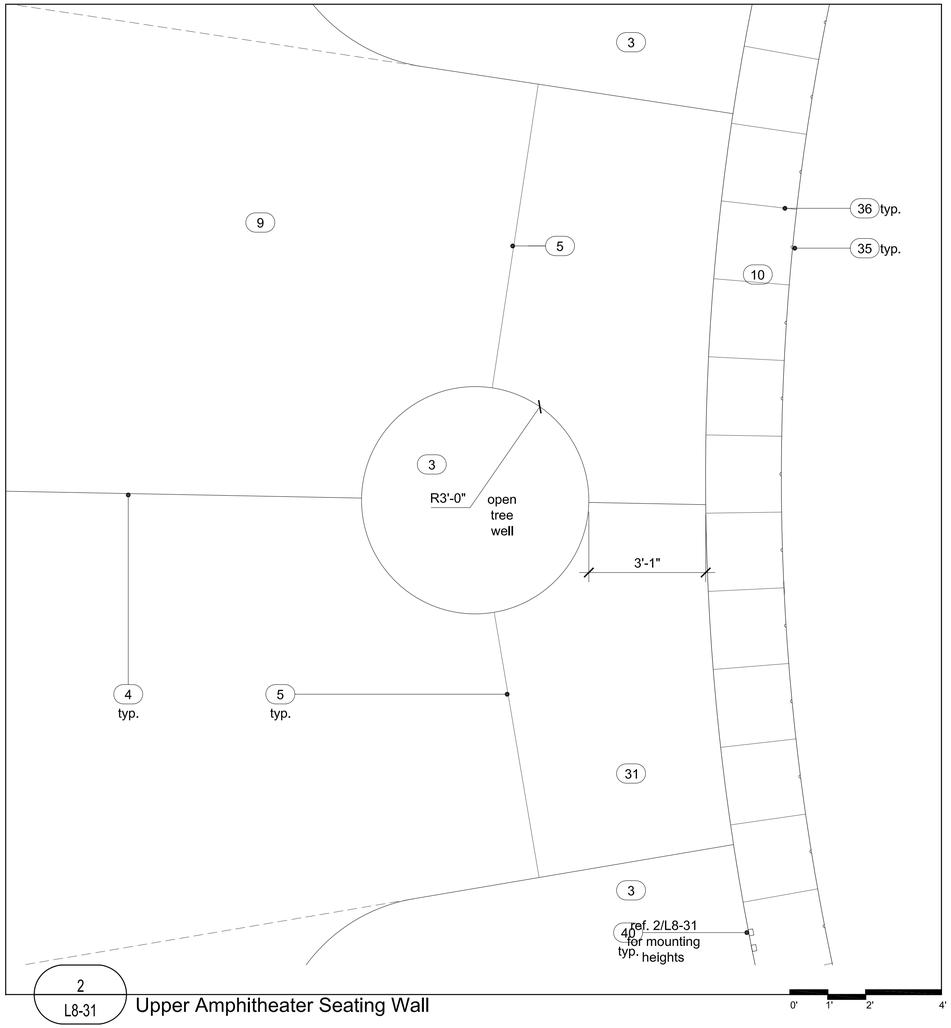
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5029-01	KWS		NOV 03, 2009	PW # 2009-04	L8-30

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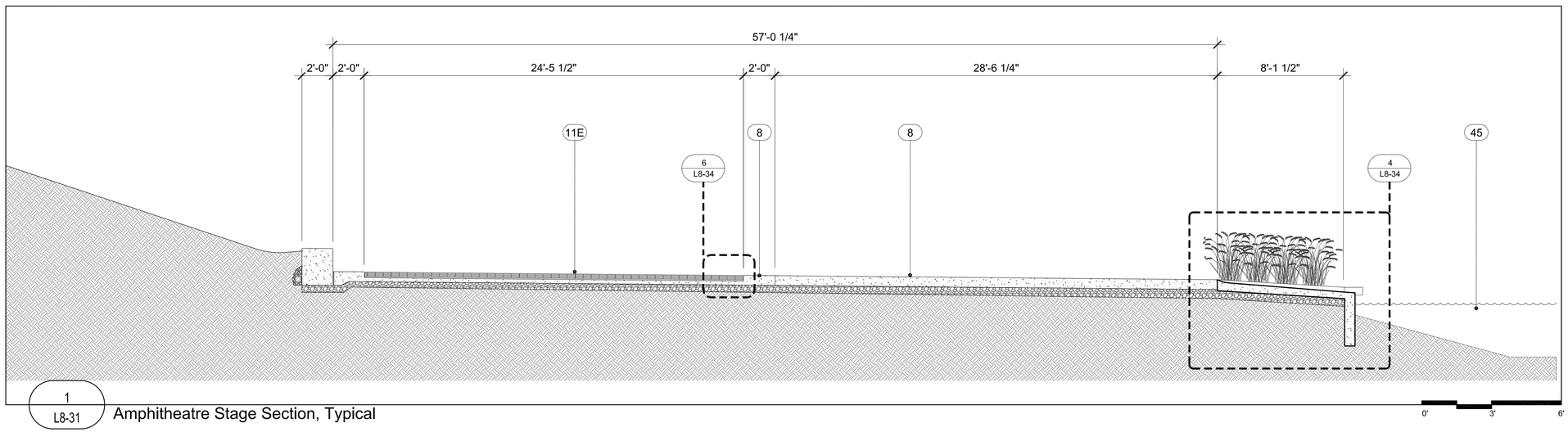
PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



2
L8-31
Wall Electrical outlet elevation, typical



2
L8-31
Upper Amphitheater Seating Wall



1
L8-31
Amphitheatre Stage Section, Typical

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

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REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

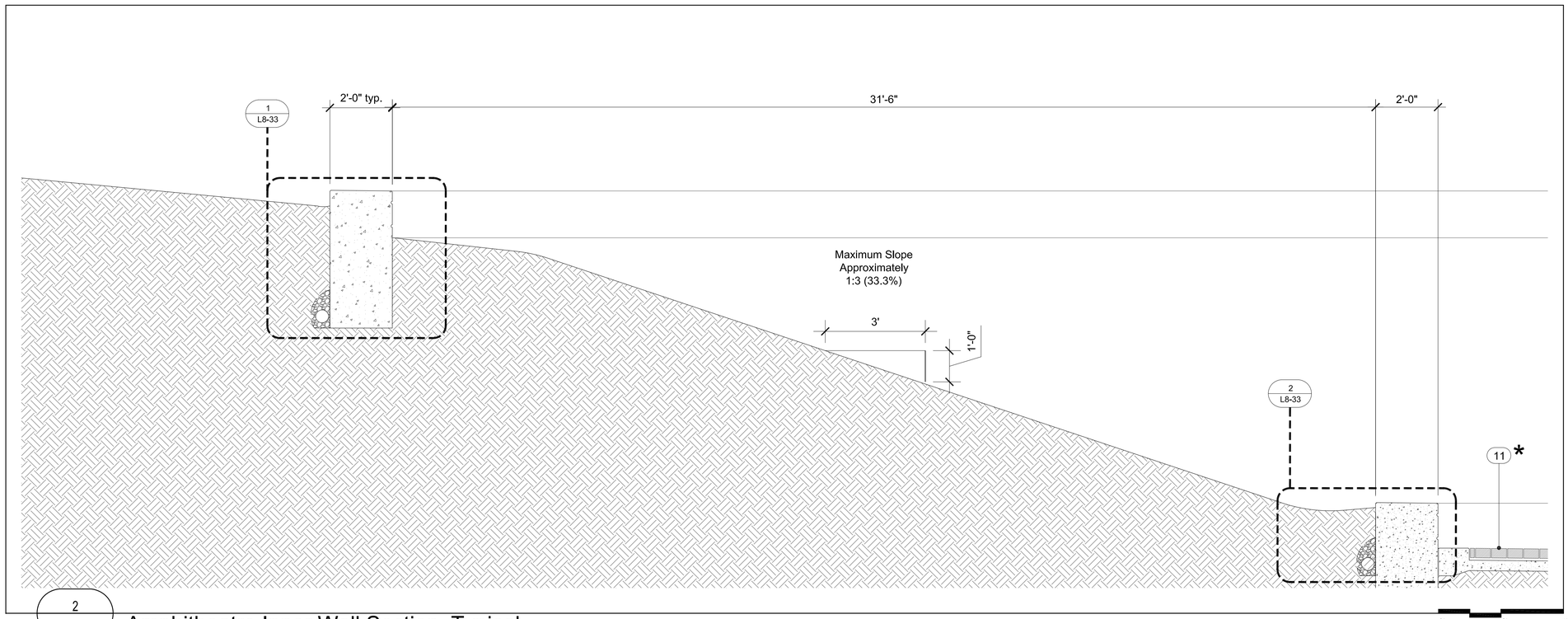
AMPHITHEATER STAGE SECTION

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

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5029-01	KWS		NOV 03, 2009	PW # 2009-04	L8-31

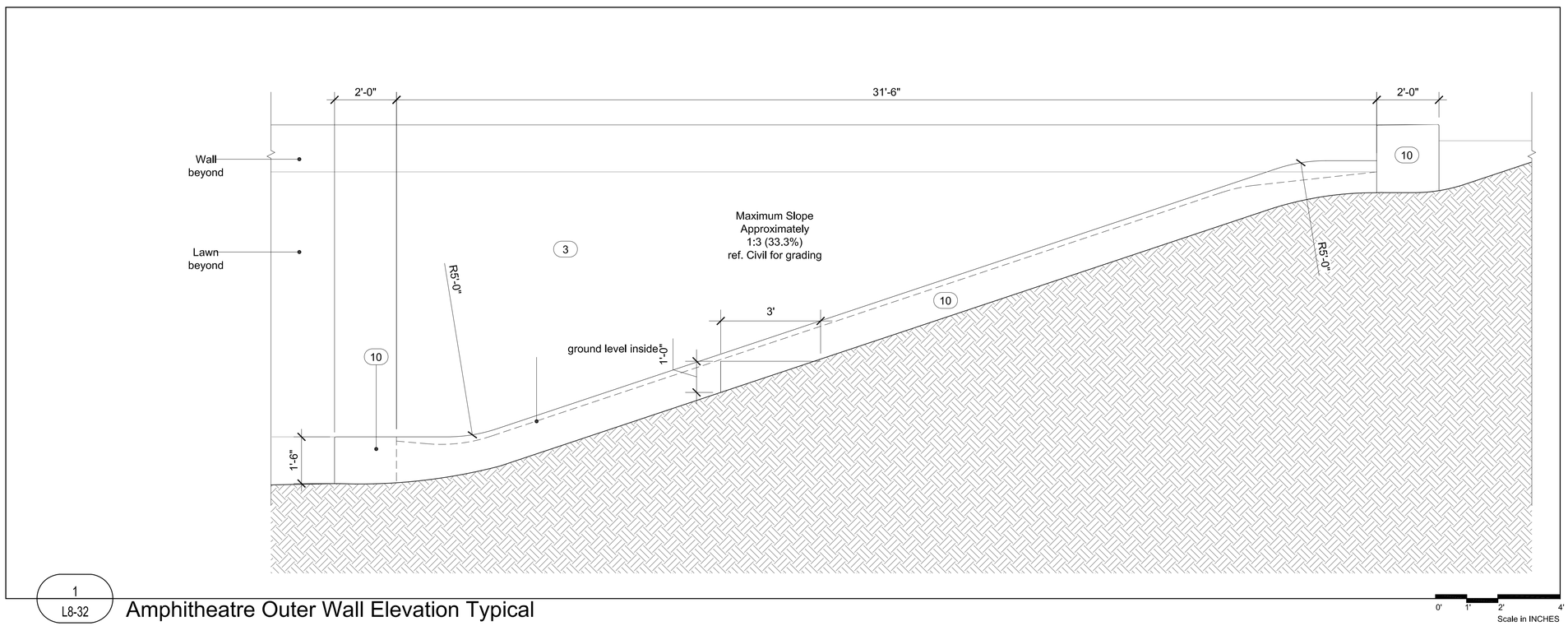
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PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



2
L8-32

Amphitheatre Inner Wall Section, Typical



1
L8-32

Amphitheatre Outer Wall Elevation Typical

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

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REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

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TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

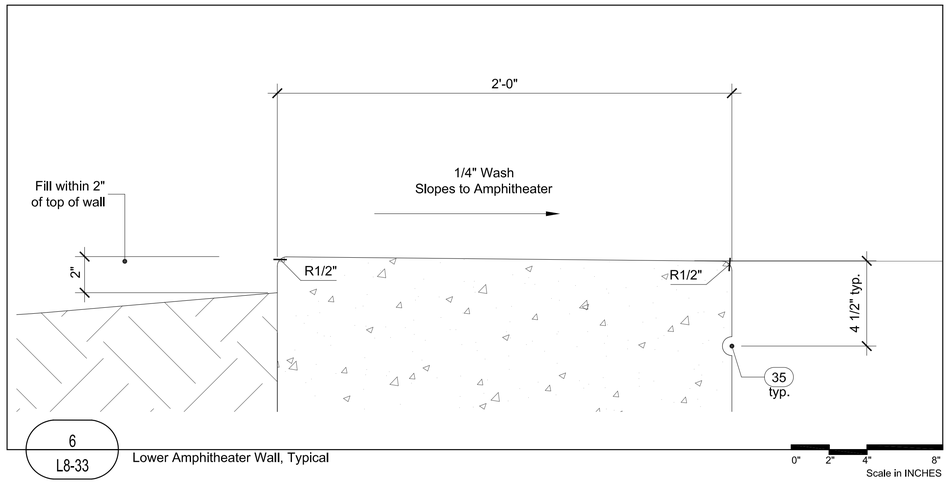
AMPHITHEATER WALL SECTION

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009	PW # 2009-04	L8-32

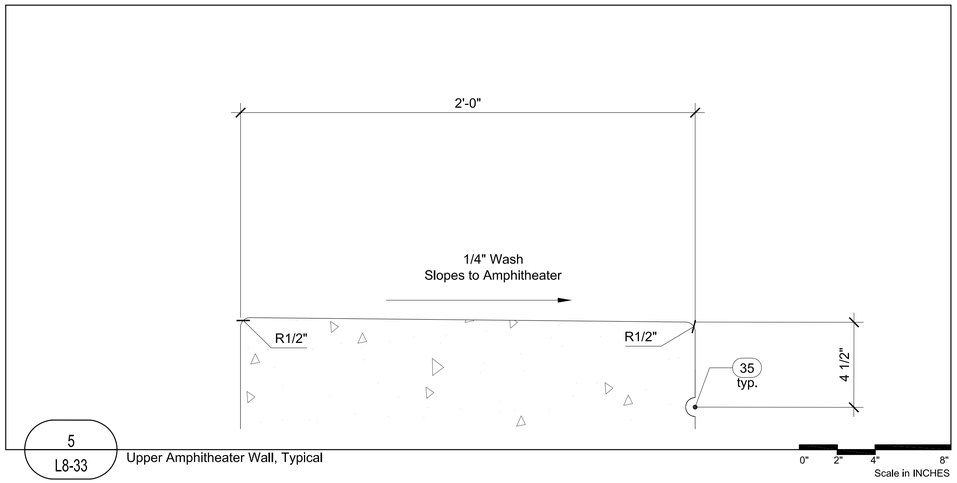
BID

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



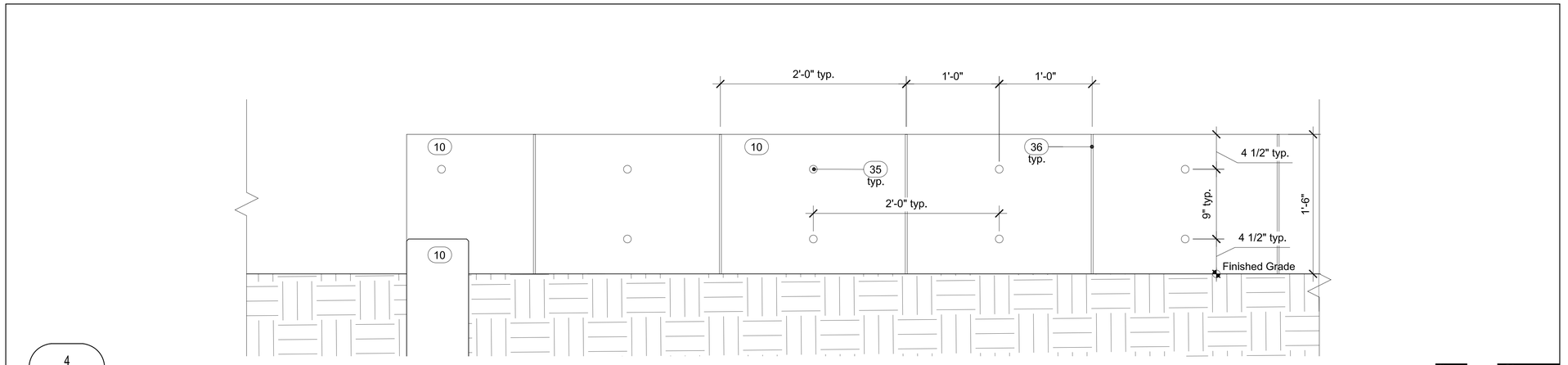
6 L8-33 Lower Amphitheater Wall, Typical

0" 2" 4" 8"
Scale in INCHES



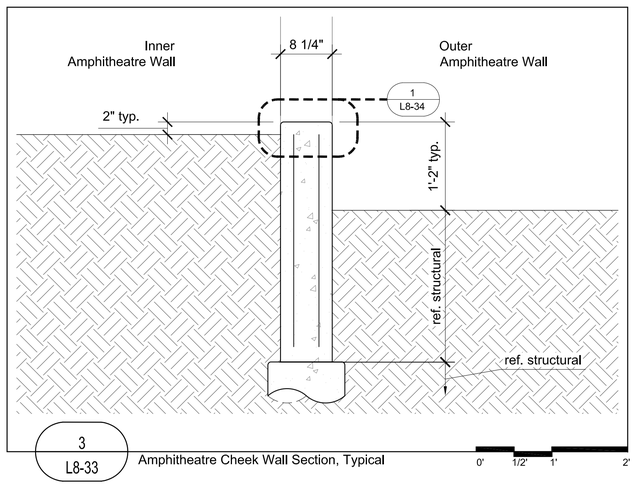
5 L8-33 Upper Amphitheater Wall, Typical

0" 2" 4" 8"
Scale in INCHES



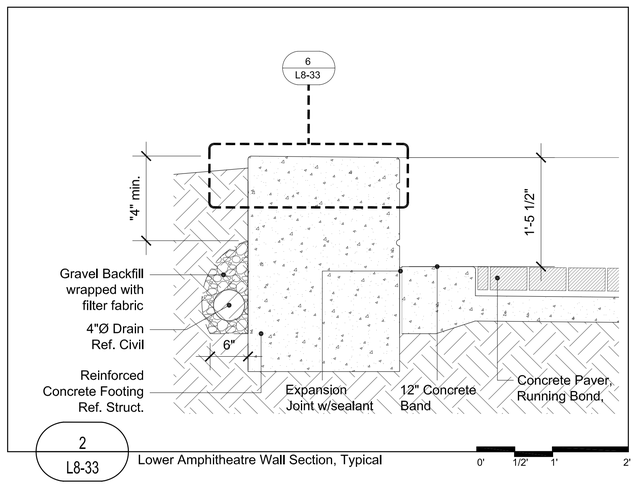
4 L8-33 Amphitheatre Wall Elevation, Typical

0" 4" 8" 16"
Scale in INCHES



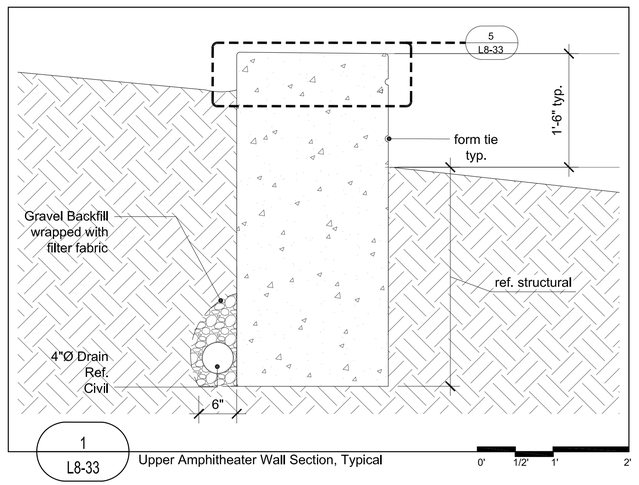
3 L8-33 Amphitheatre Cheek Wall Section, Typical

0' 1/2" 1' 2'



2 L8-33 Lower Amphitheatre Wall Section, Typical

0' 1/2" 1' 2'



1 L8-33 Upper Amphitheater Wall Section, Typical

0' 1/2" 1' 2'

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
3. Planting Area: Ref. L10-00's & L11-00's
4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

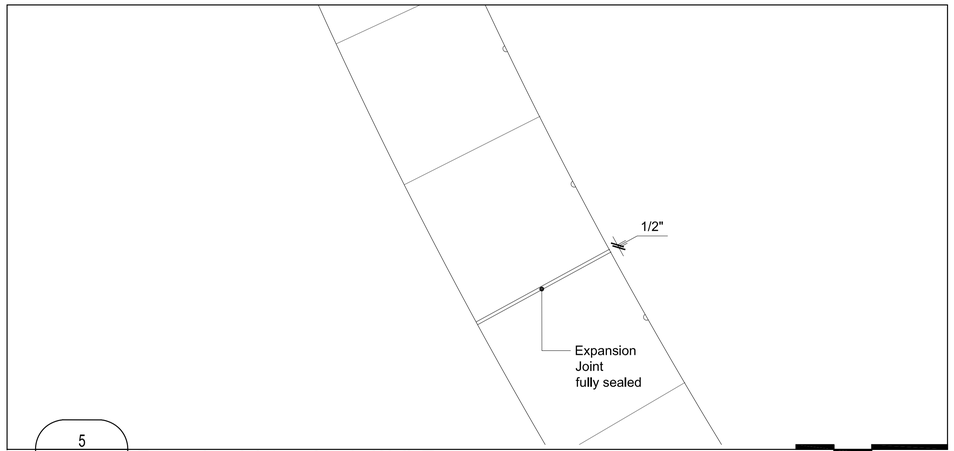
AMPHITHEATER - SECTIONS & DETAILS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009	PW # 2009-04	L8-33

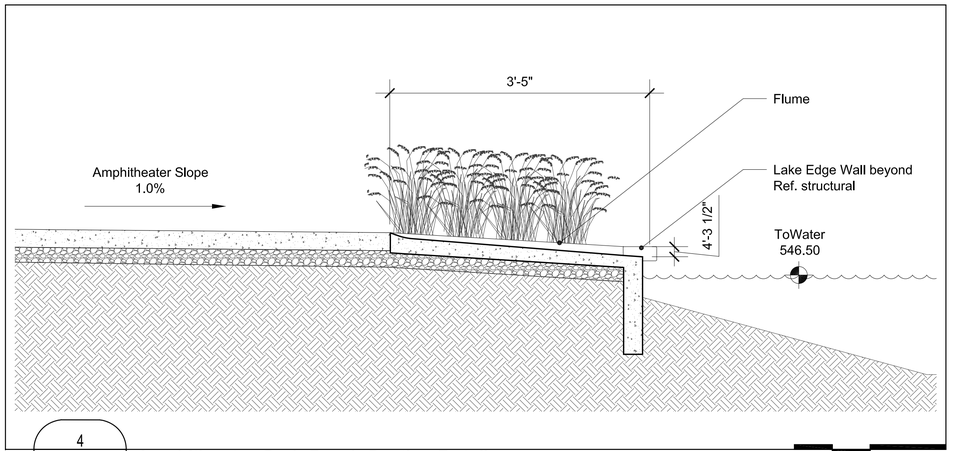
BID

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



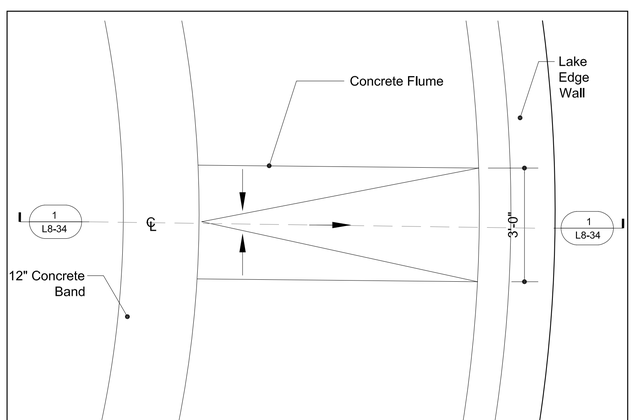
5 L8-34 Expansion Joint on Amph. Wall, Typ.

0' 1/2" 1" 2" Scale in INCHES



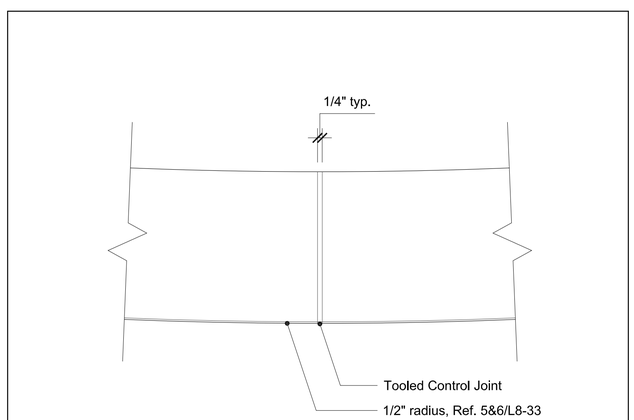
4 L8-34 Amphitheater Curb Break Section Detail

0' 1/2" 1" 2" Scale in INCHES



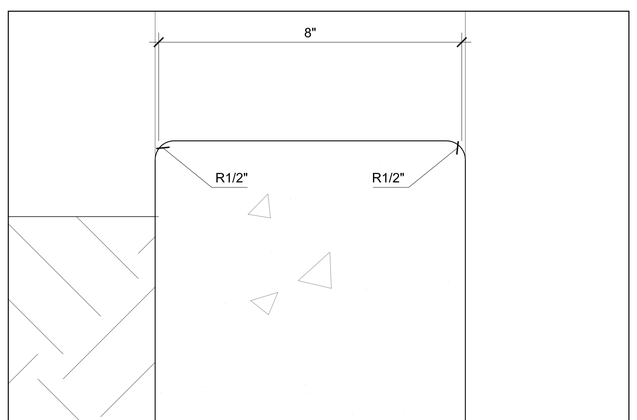
3 L8-34 Amphitheater Curb Break Plan

0' 1/2" 1" 2" Scale in INCHES



2 L8-34 Control Joint on Amph. Wall, Typical

0' 1/2" 1" 2" Scale in INCHES



1 L8-34 Chamfer on Concrete Wall

0' 1" 2" 4" Scale in INCHES

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
3. Planting Area: Ref. L10-00's & L11-00's
4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT LEWIN W. SLOAN 2296 STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison. TOWN OF ADDISON
DALLAS COUNTY, TEXAS

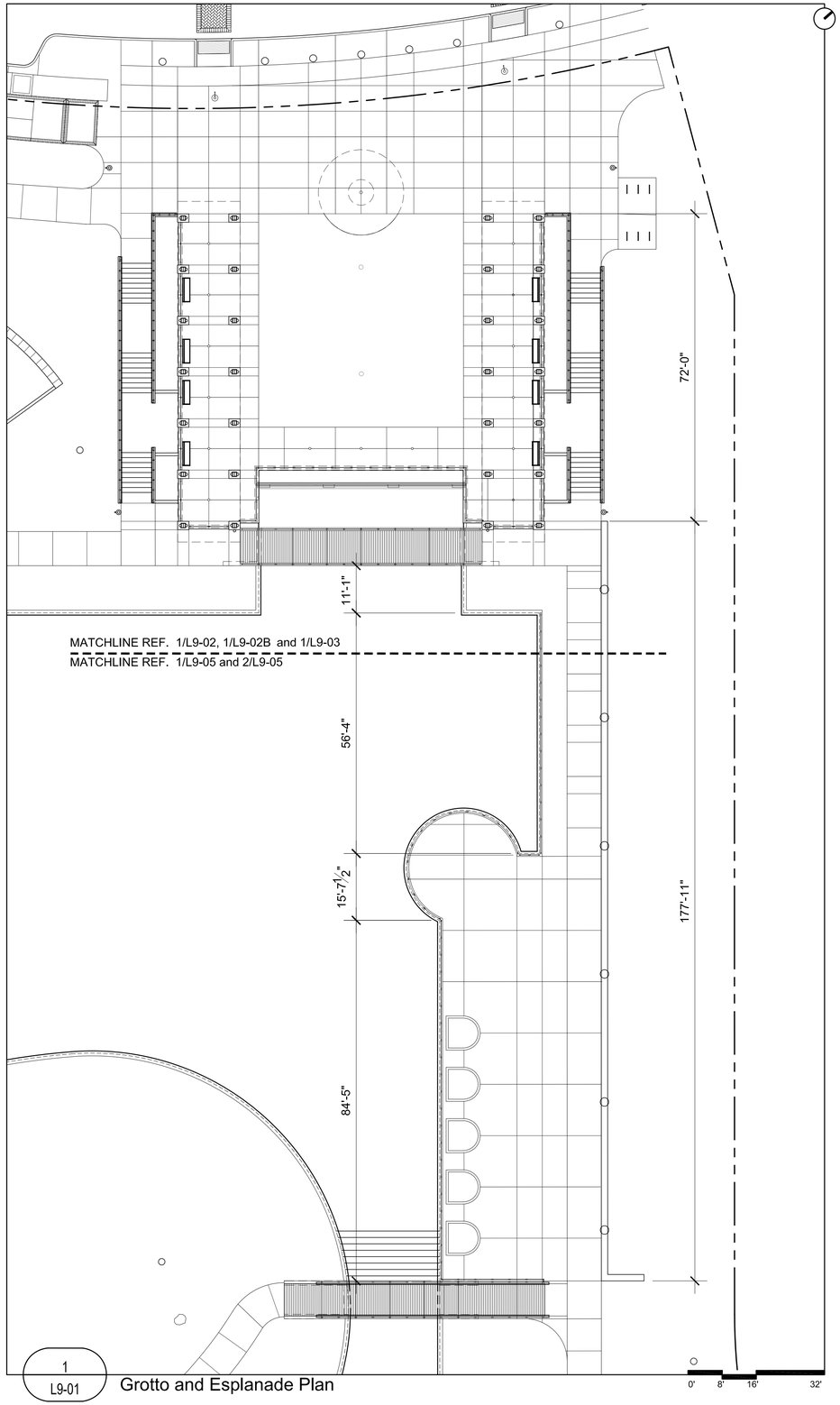
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

AMPHITHEATER - DETAILS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009 BID	PW # 2009-04	L8-34

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



1
L9-01
Grotto and Esplanade Plan

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
3. Planting Area: Ref. L10-00's & L11-00's
4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison.
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

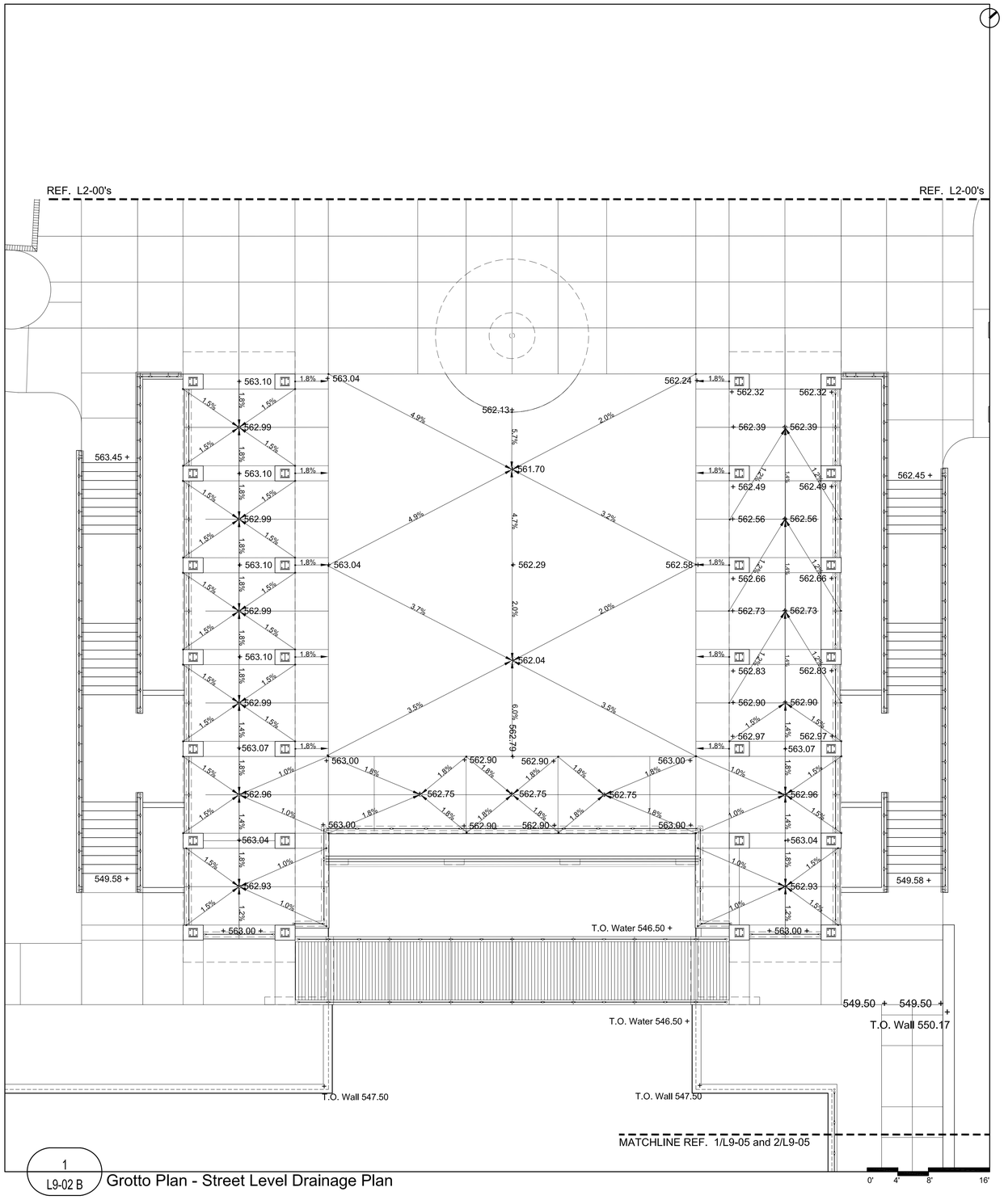
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

GROTTO AND ESPLANADE PLAN MATERIALS, ELEMENTS AND LAYOUT

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009 BID	PW # 2009-04	L9-01

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



1
L9-02 B
Grotto Plan - Street Level Drainage Plan

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
3. Planting Area: Ref. L10-00's & L11-00's
4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

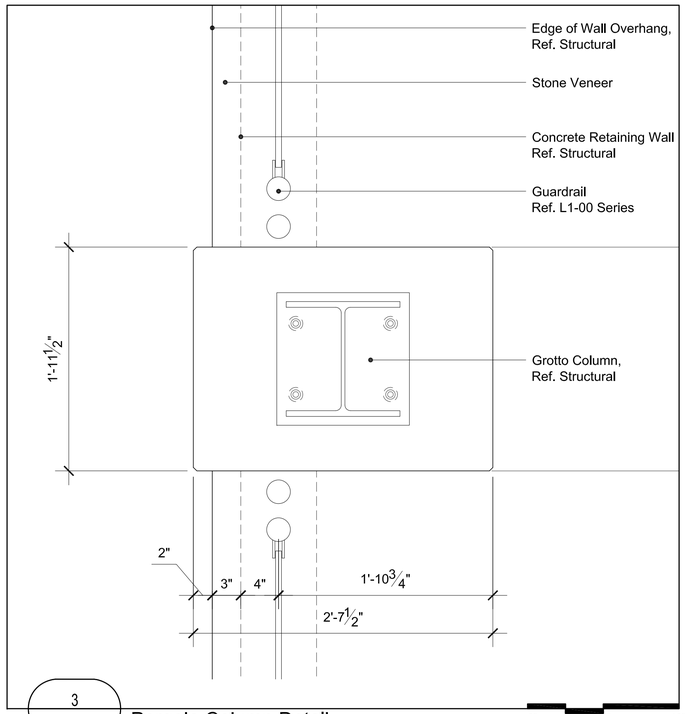
GROTTO PLAN - STREET LEVEL DRAINAGE PLAN

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009	PW # 2009-04	L9-02 B

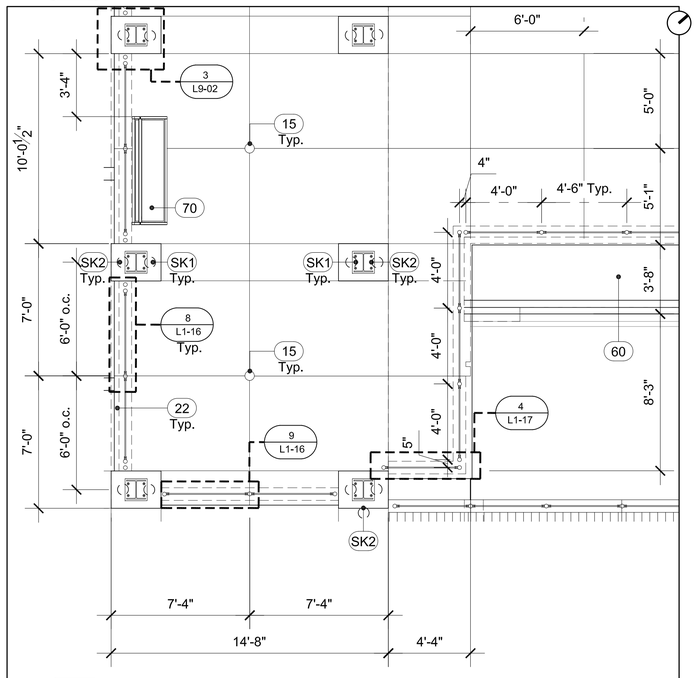
BID

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



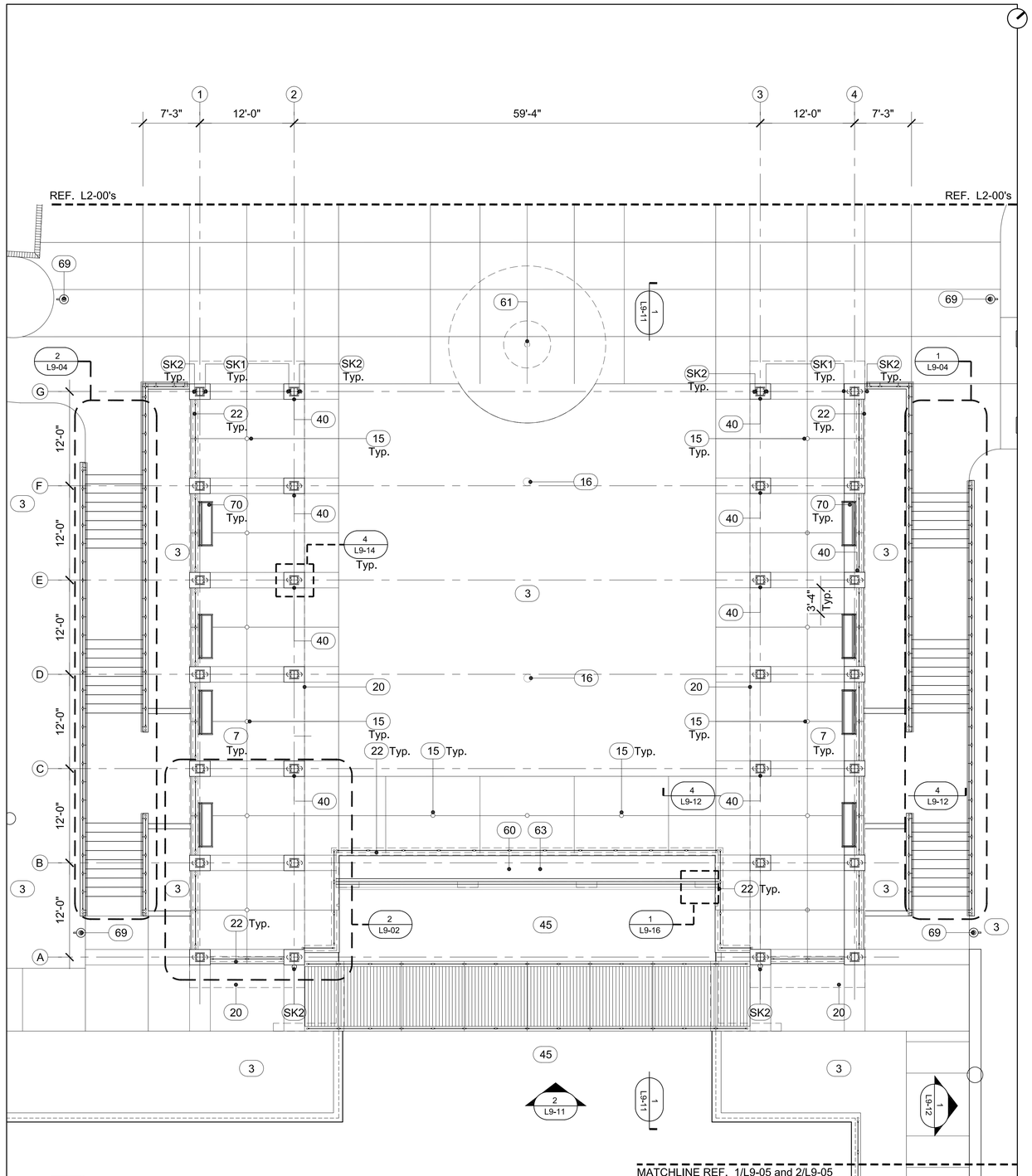
3 / L9-02 Pergola Column Detail

0" 4" 8" 16" scale in inches



2 / L9-02 Street Level Plan Enlargement

0' 2' 4' 8'



1 / L9-02 Grotto Plan - Street Level

0' 4' 8' 16'

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
3. Planting Area: Ref. L10-00's & L11-00's
4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
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66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT KEVIN W. SLOAN 2296 STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

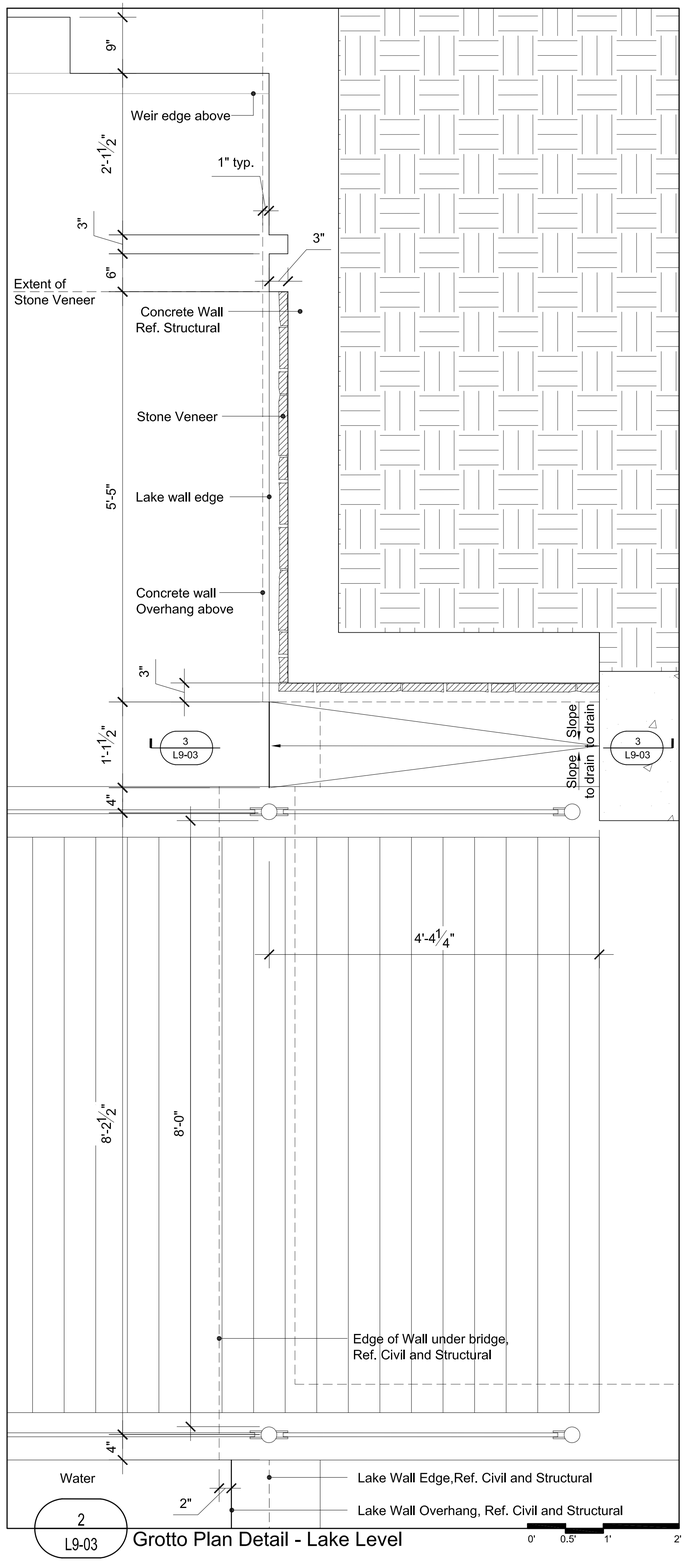
GROTTO PLAN - STREET LEVEL MATERIALS, ELEMENTS AND LAYOUT

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

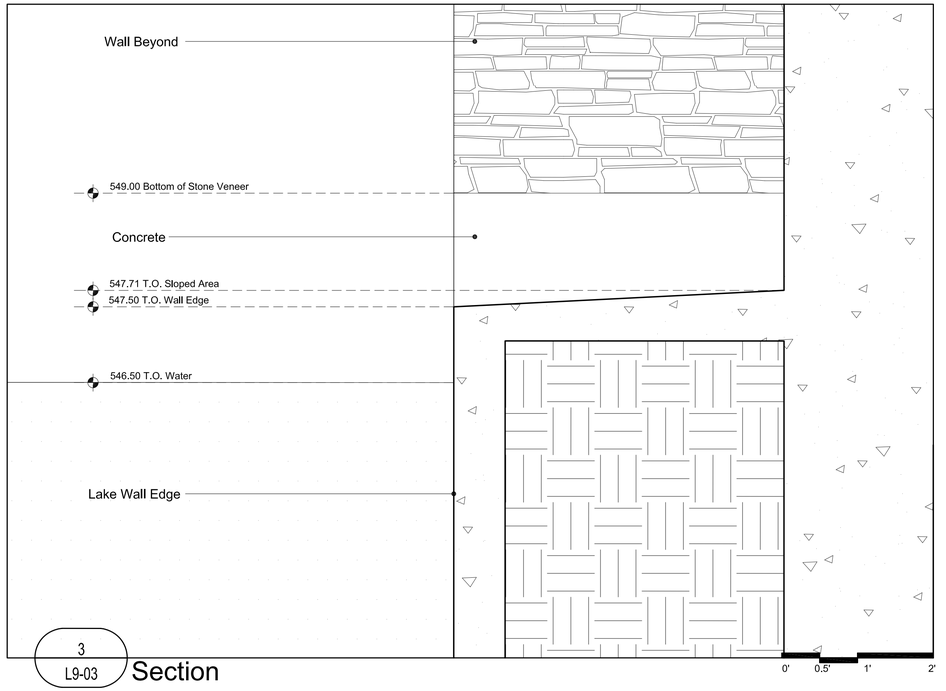
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5029-01	KWS		NOV 03, 2009	PW # 2009-04	L9-02

BID

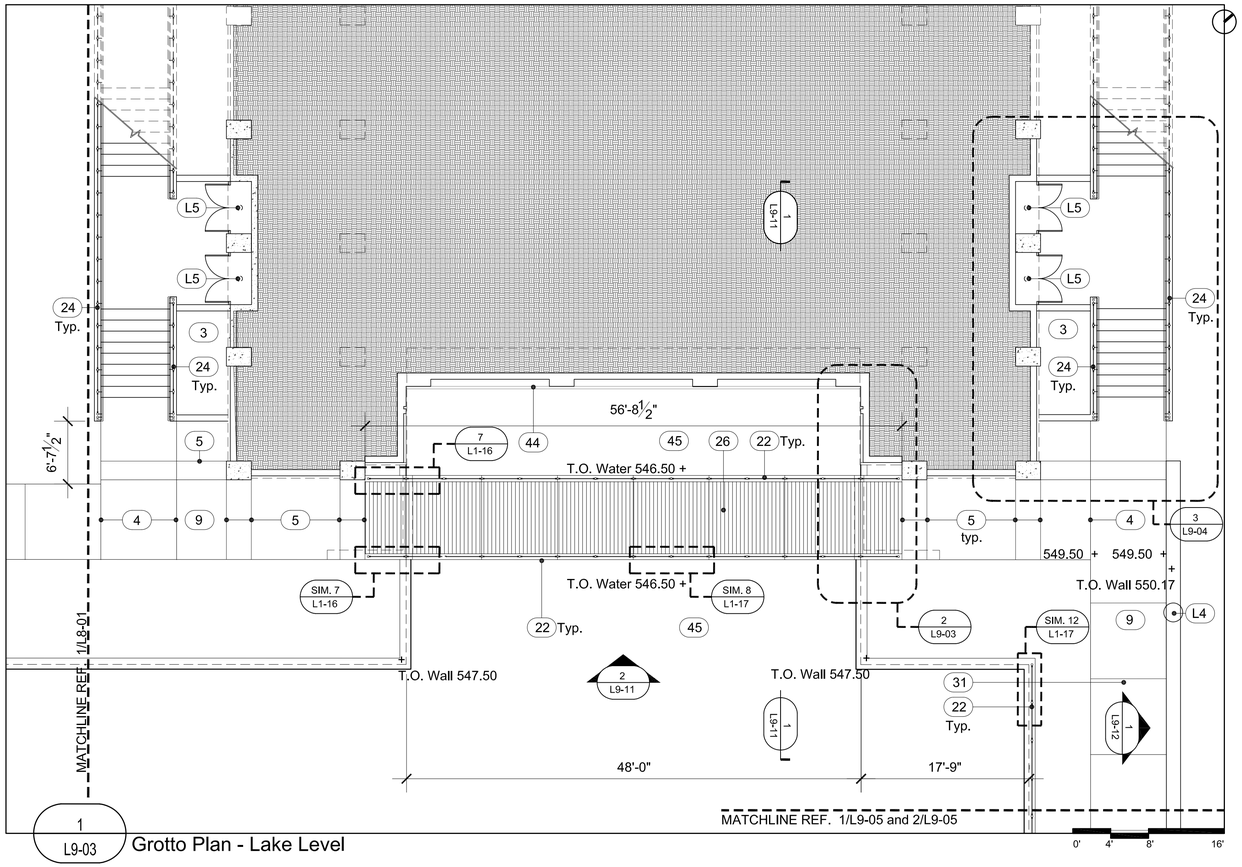
PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



2
L9-03
Grotto Plan Detail - Lake Level



3
L9-03
Section



1
L9-03
Grotto Plan - Lake Level

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
3. Planting Area: Ref. L10-00's & L11-00's
4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

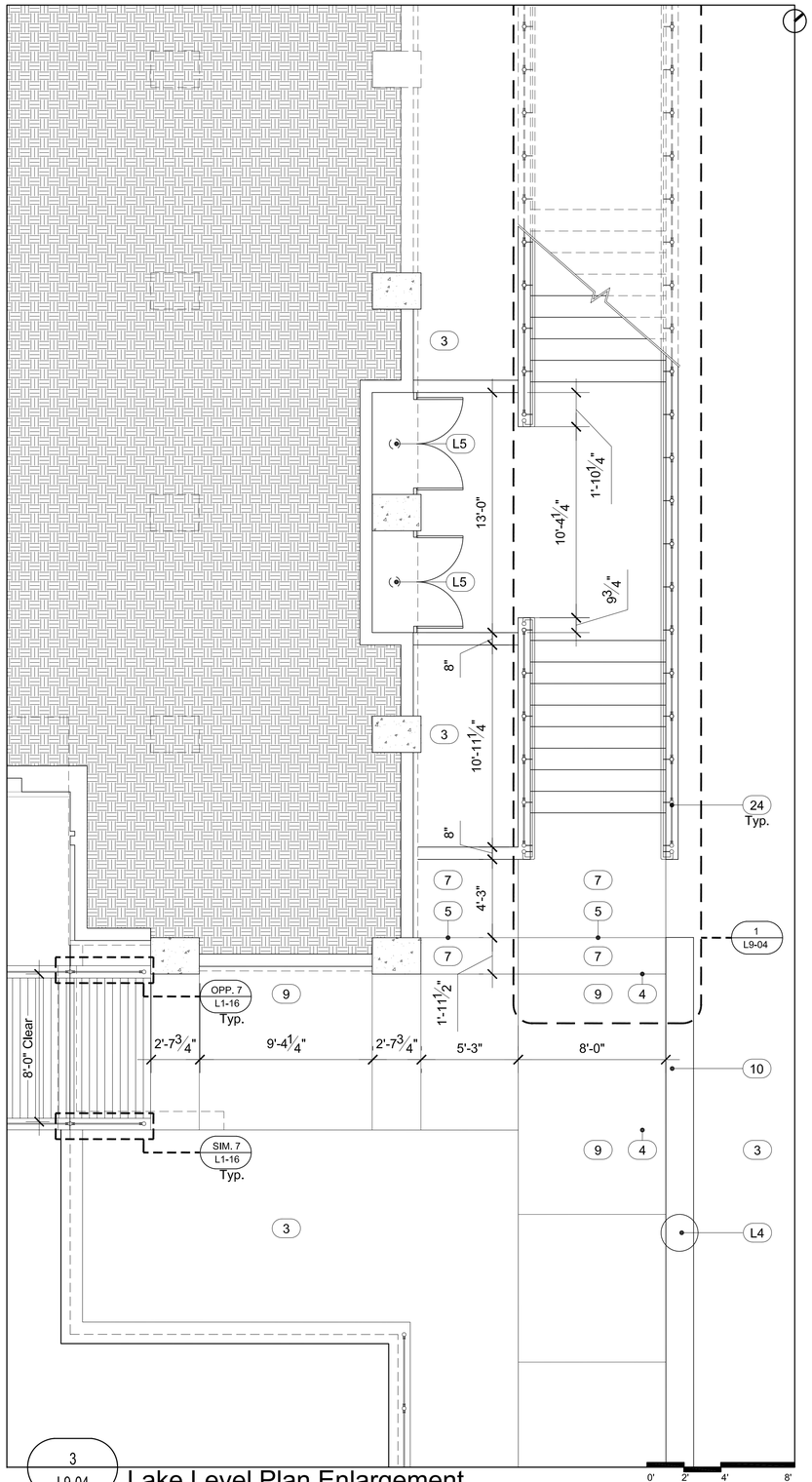
GROTTO PLAN - LAKE LEVEL MATERIALS, ELEMENTS AND LAYOUT

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
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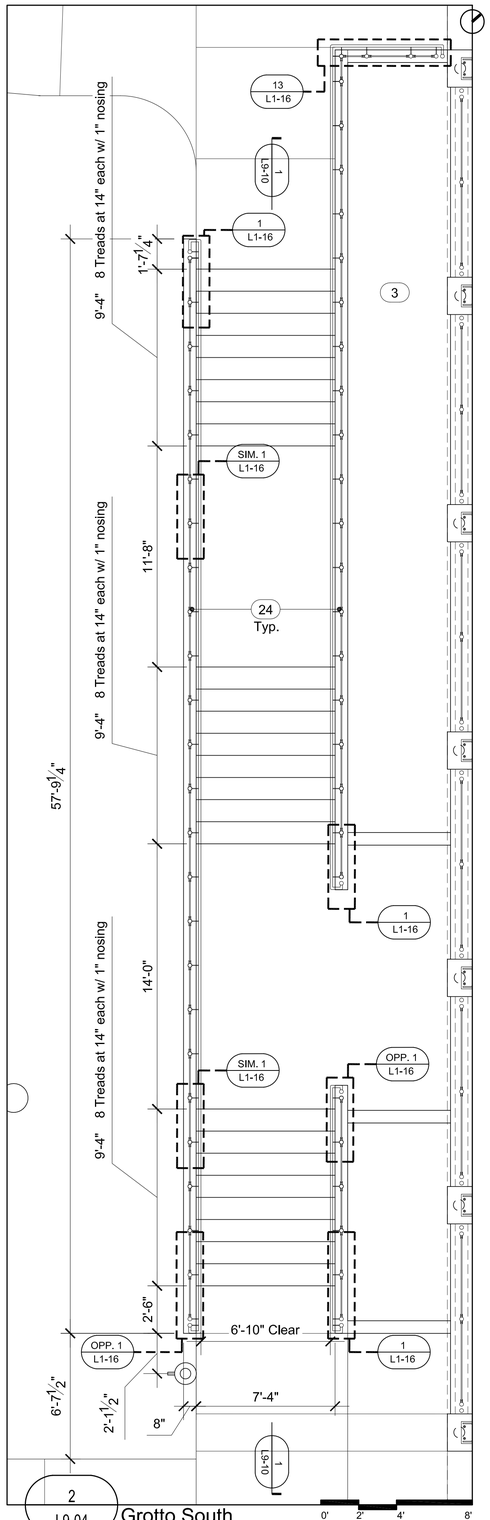
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PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



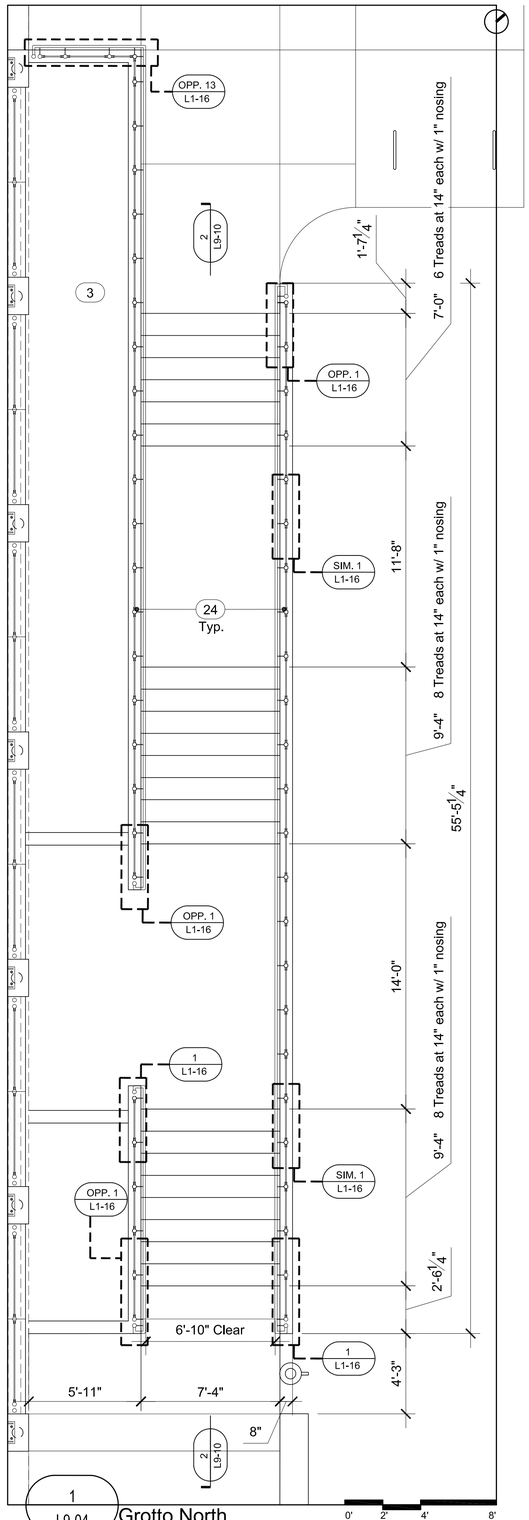
3 L9-04 Lake Level Plan Enlargement

0' 2' 4' 8'



2 L9-04 Grotto South Stair Plan

0' 2' 4' 8'



1 L9-04 Grotto North Stair Plan

0' 2' 4' 8'

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
3. Planting Area: Ref. L10-00's & L11-00's
4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

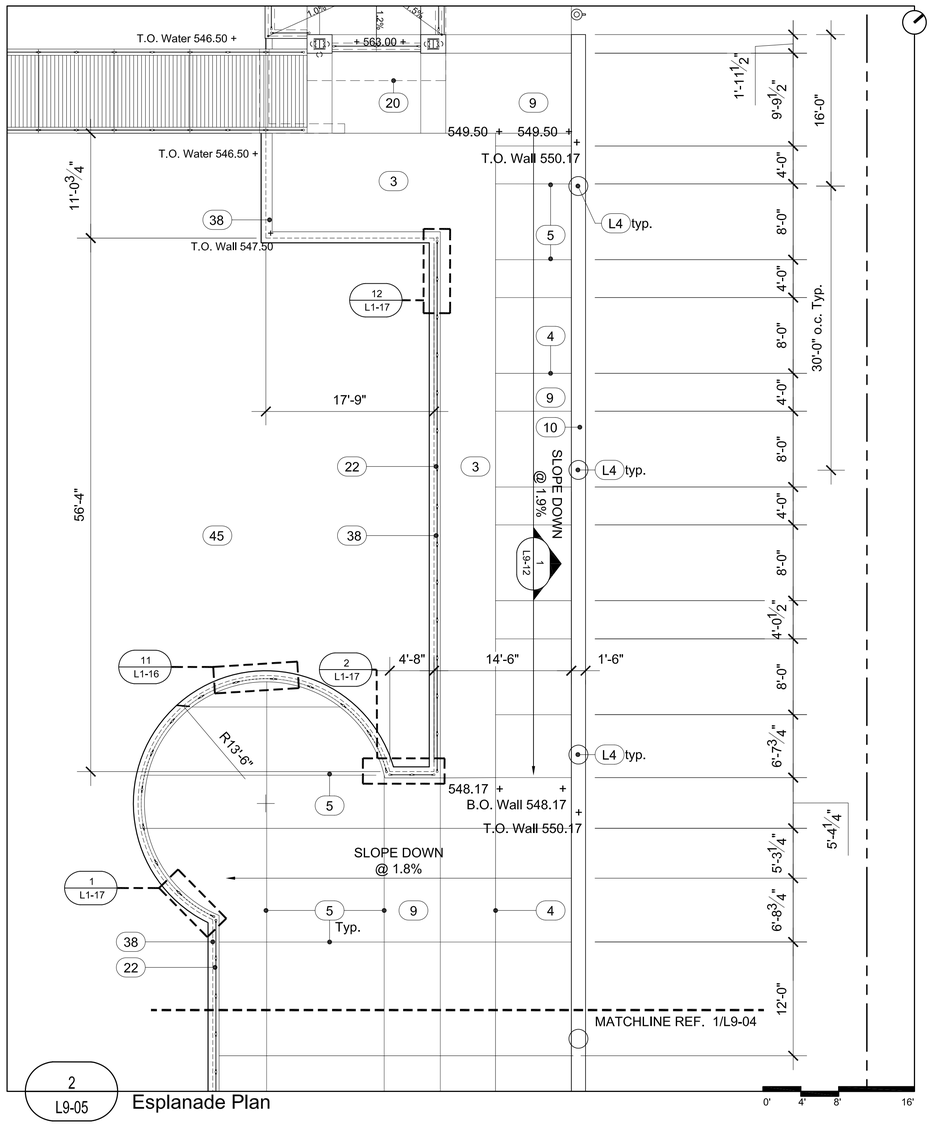
GROTTO STAIRS ENLARGED PLANS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

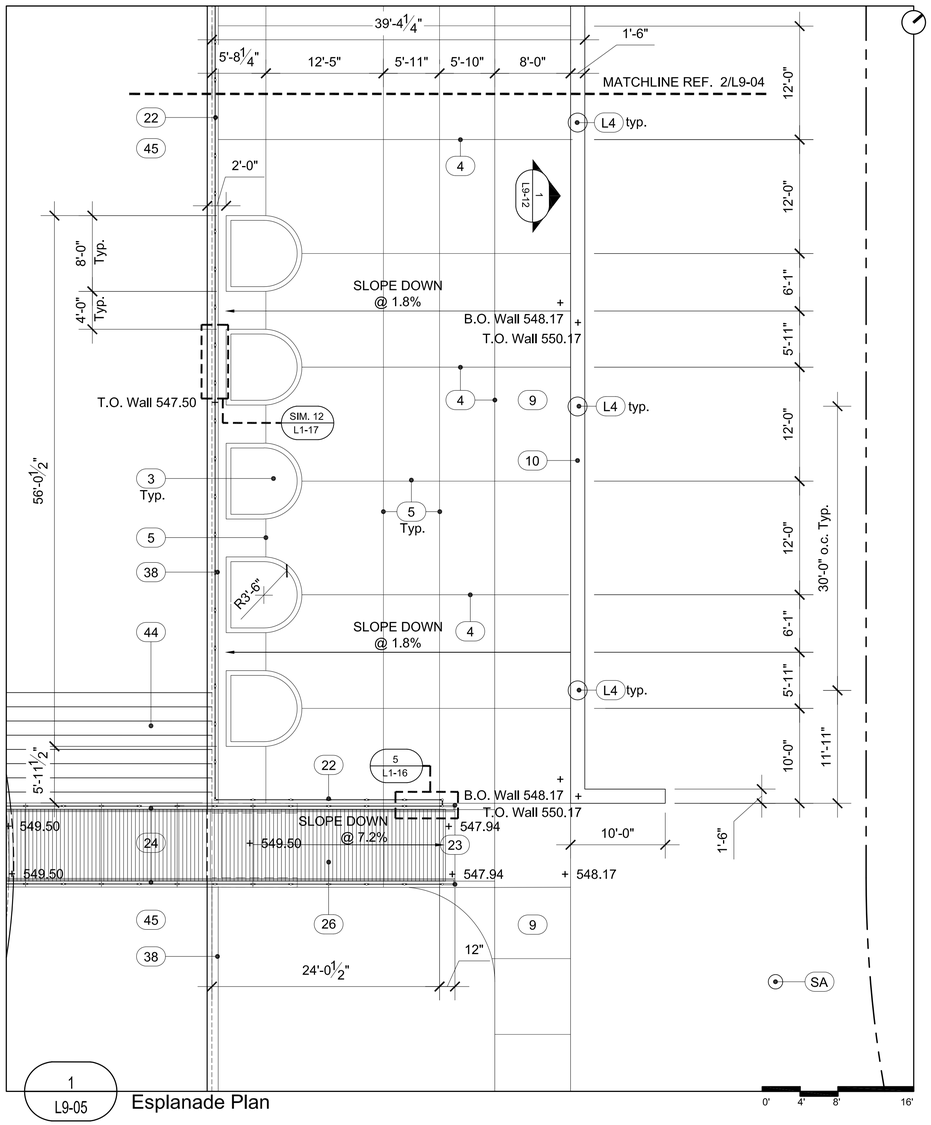
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009	PW # 2009-04	L9-04

BID

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



2
L9-05
Esplanade Plan



1
L9-05
Esplanade Plan

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
3. Planting Area: Ref. L10-00's & L11-00's
4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

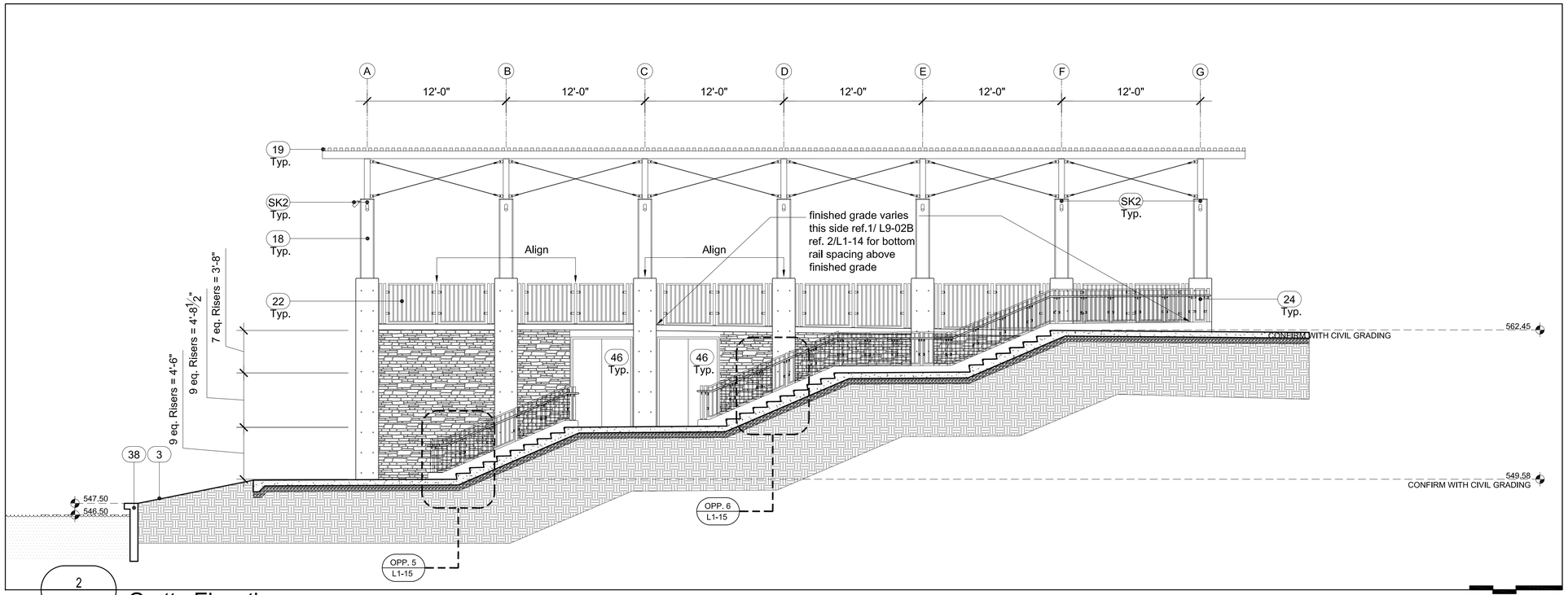
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

ESPLANADE PLAN
MATERIALS, ELEMENTS AND LAYOUT

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

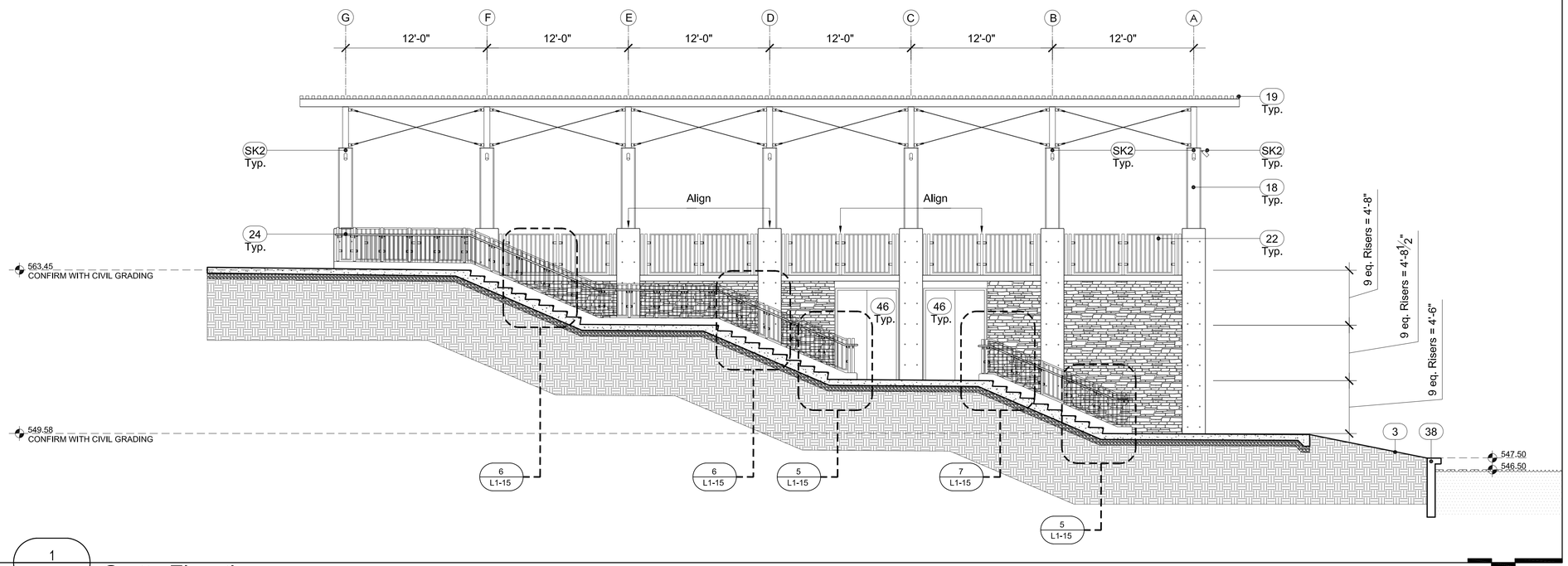
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5029-01	KWS		NOV 03, 2009 BID	PW # 2009-04	L9-05

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



2 L9-10 Grotto Elevation

0' 2' 4' 8'
Scale: 3/16" = 1'-0"



1 L9-10 Grotto Elevation

0' 2' 4' 8'
Scale: 3/16" = 1'-0"

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
3. Planting Area: Ref. L10-00's & L11-00's
4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-1 Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT KEVIN W. SLOAN 2296 STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

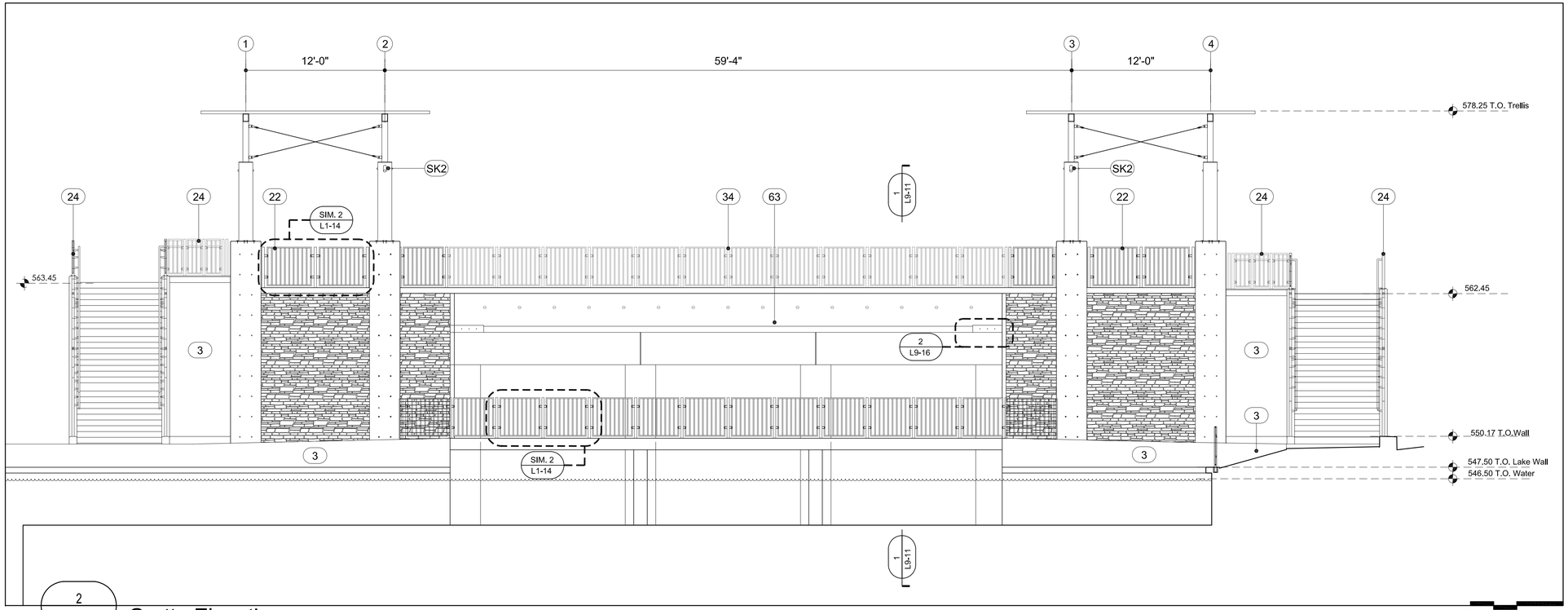
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

GROTTO STAIRS SECTIONS

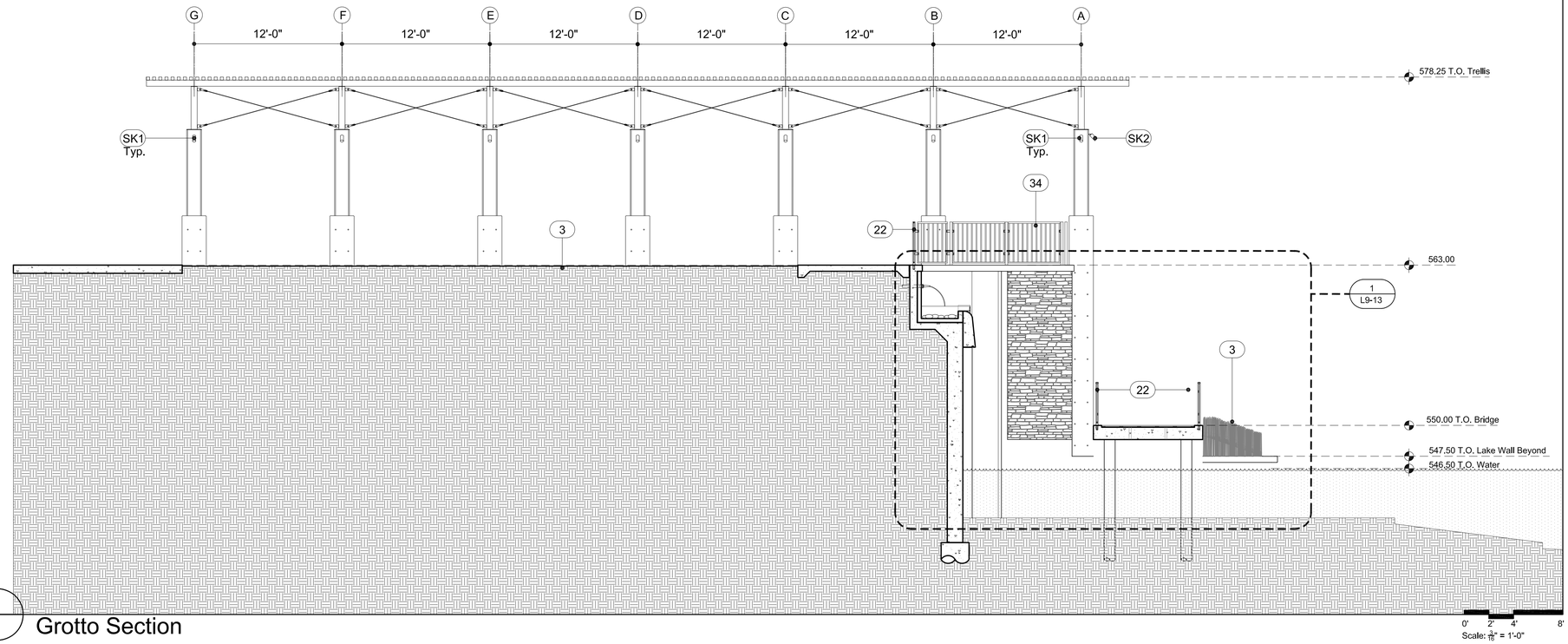
KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009 BID	PW # 2009-04	L9-10

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



2 L9-11 Grotto Elevation



1 L9-11 Grotto Section

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
3. Planting Area: Ref. L10-00's & L11-00's
4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
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13. Structural Fill: Reference Structural
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27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
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32. Bridge: N.I.C. (Not In Contract)
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36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
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42. Access Panel - Reference structural
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61. Fountain: Ref. Fountain Consultant
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63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT KEVIN W. SLOAN 2296 STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

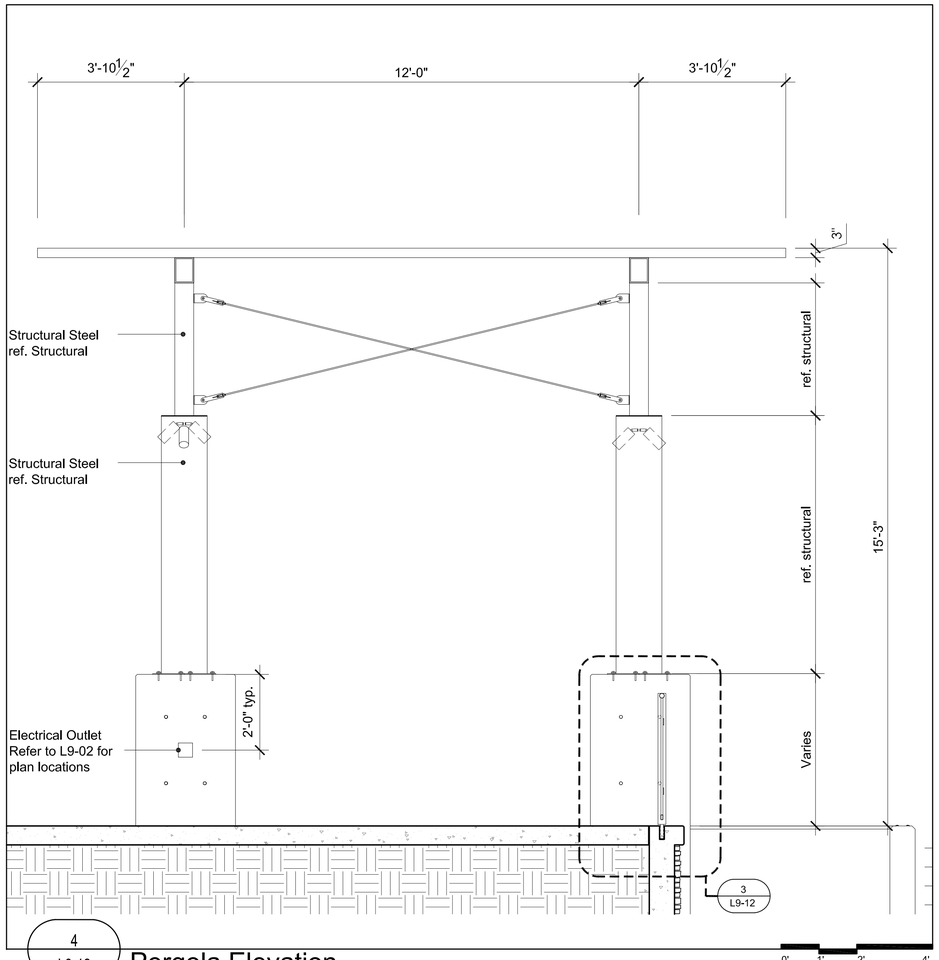
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

GROTTO ELEVATION AND SECTION

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

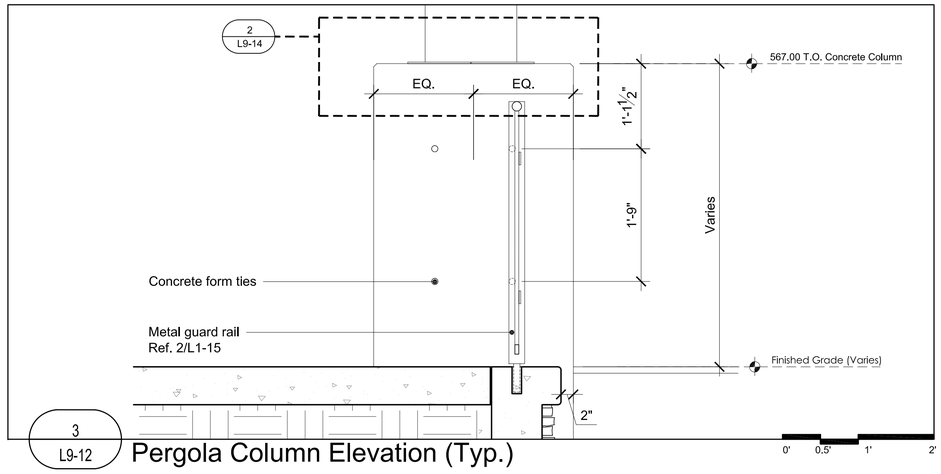
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PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



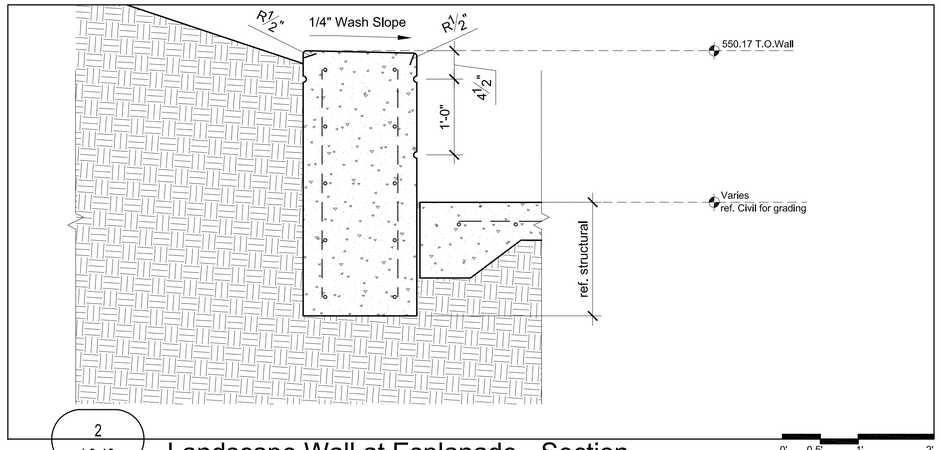
4
L9-12

Pergola Elevation



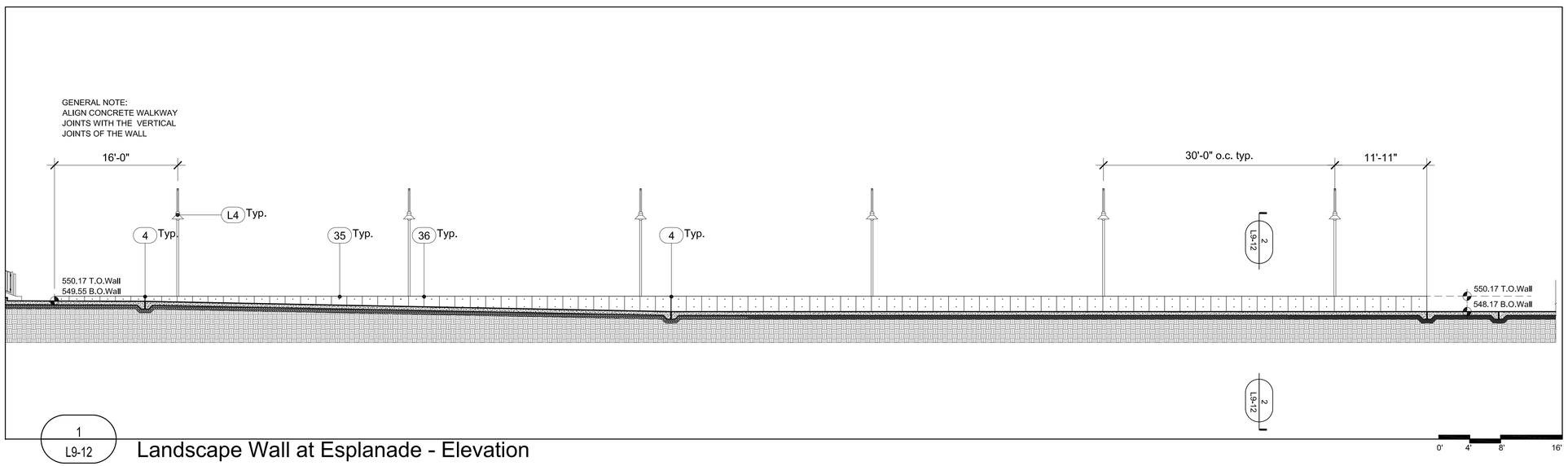
3
L9-12

Pergola Column Elevation (Typ.)



2
L9-12

Landscape Wall at Esplanade - Section



1
L9-12

Landscape Wall at Esplanade - Elevation

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
3. Planting Area: Ref. L10-00's & L11-00's
4. Expansion Joint: Ref. Civil for detail
5. Tooled Control Joint: Ref. Civil for detail
6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

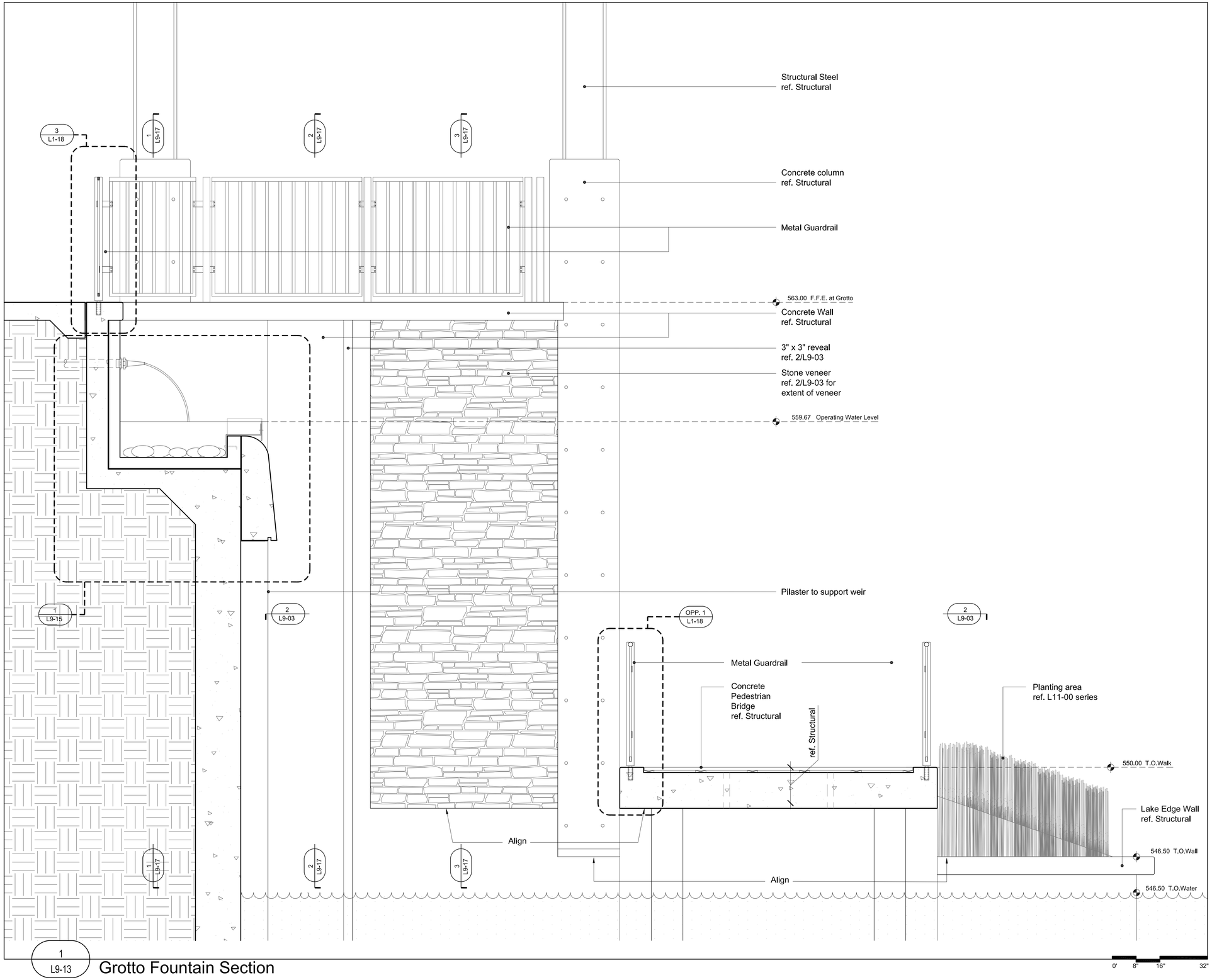
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

LANDSCAPE WALL AND PERGOLA ELEVATIONS AND DETAILS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009 BID	PW # 2009-04	L9-12

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



1 L9-13 Grotto Fountain Section

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

1. Project Limit
2. Not in Contract (N.I.C.): Information provided for design intent only.
3. Planting Area: Ref. L10-00's & L11-00's
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8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
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24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
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29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
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42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
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LIGHTING

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- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT KEVIN W. SLOAN 2296 STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

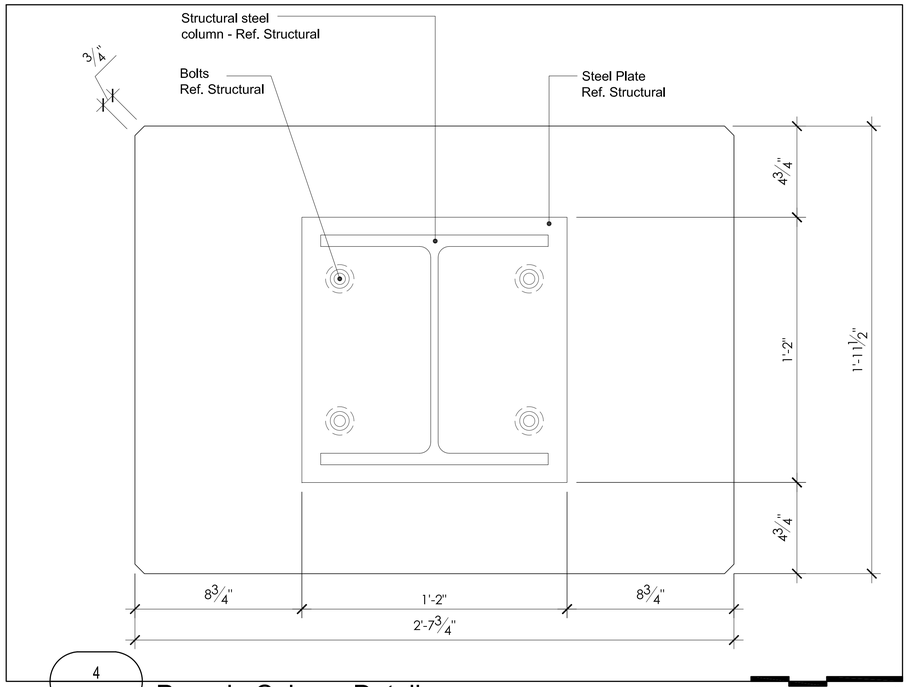
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

GROTTO FOUNTAIN SECTION

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009 BID	PW # 2009-04	L9-13

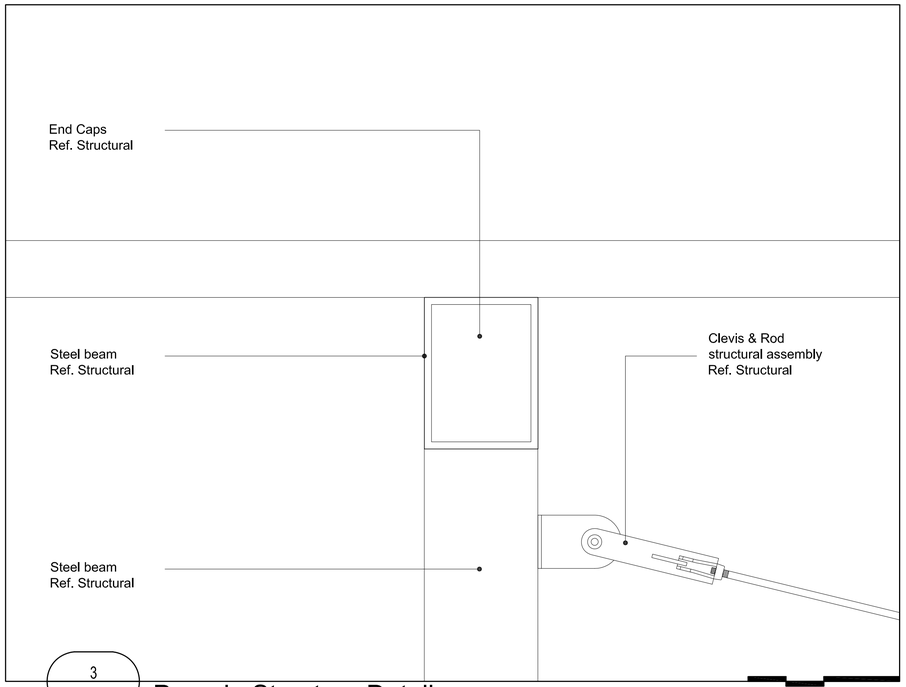
PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



4
L9-14

Pergola Column Detail

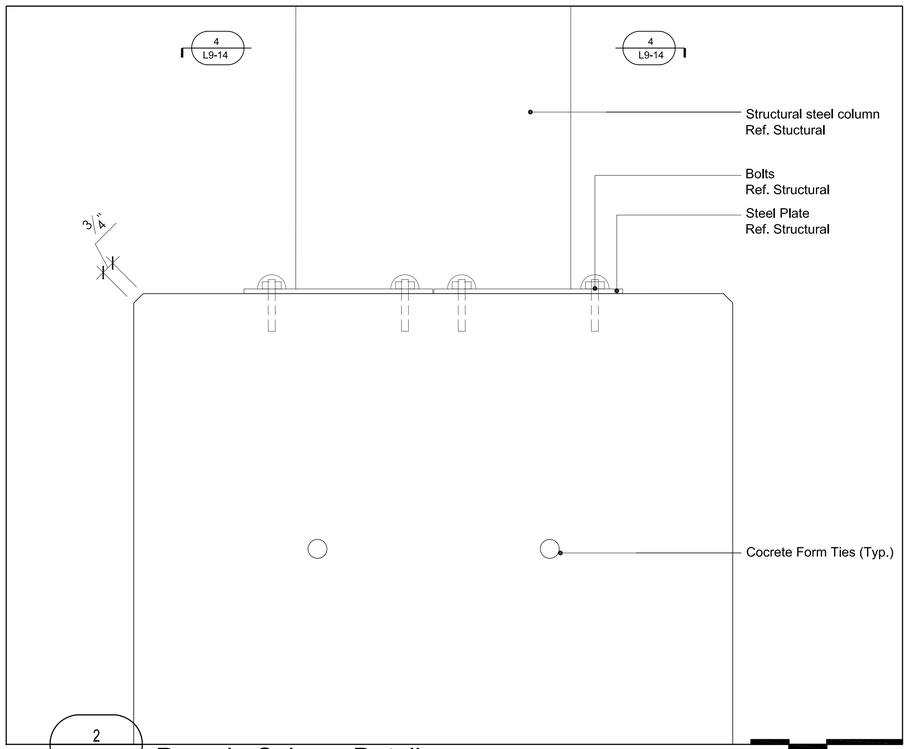
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scale in inches



3
L9-14

Pergola Structure Detail

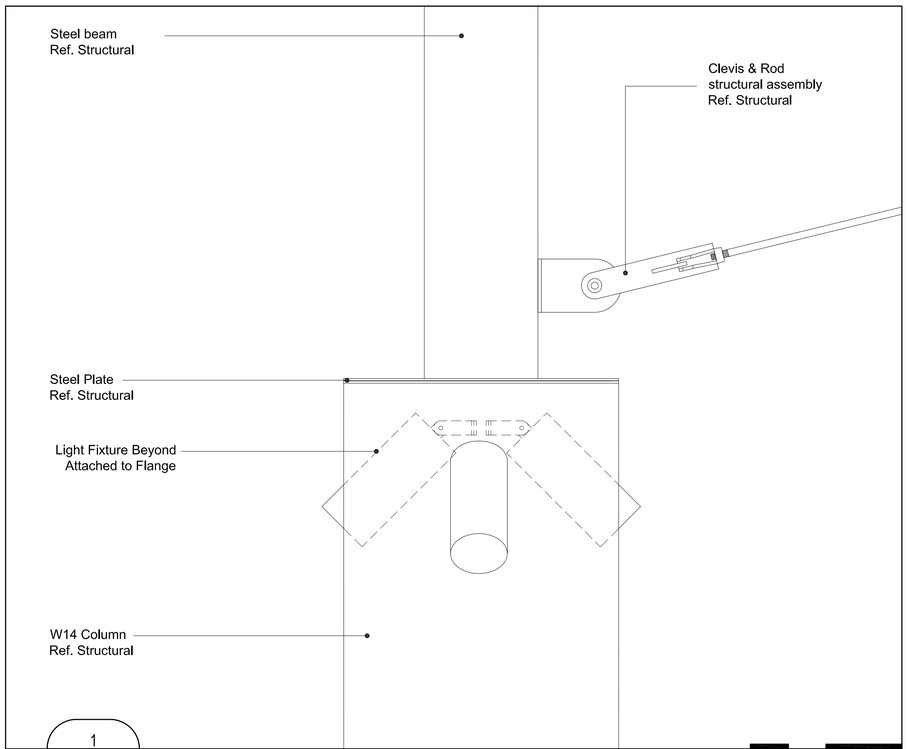
0" 2" 4" 8"
scale in inches



2
L9-14

Pergola Column Detail

0" 2" 4" 8"
scale in inches



1
L9-14

Pergola Column Detail

0" 2" 4" 8"
scale in inches

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

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8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
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11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
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13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
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26. Composite Decking
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42. Access Panel - Reference structural
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44. Concrete Weir: Reference Structural
45. Water
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62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
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LIGHTING

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- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

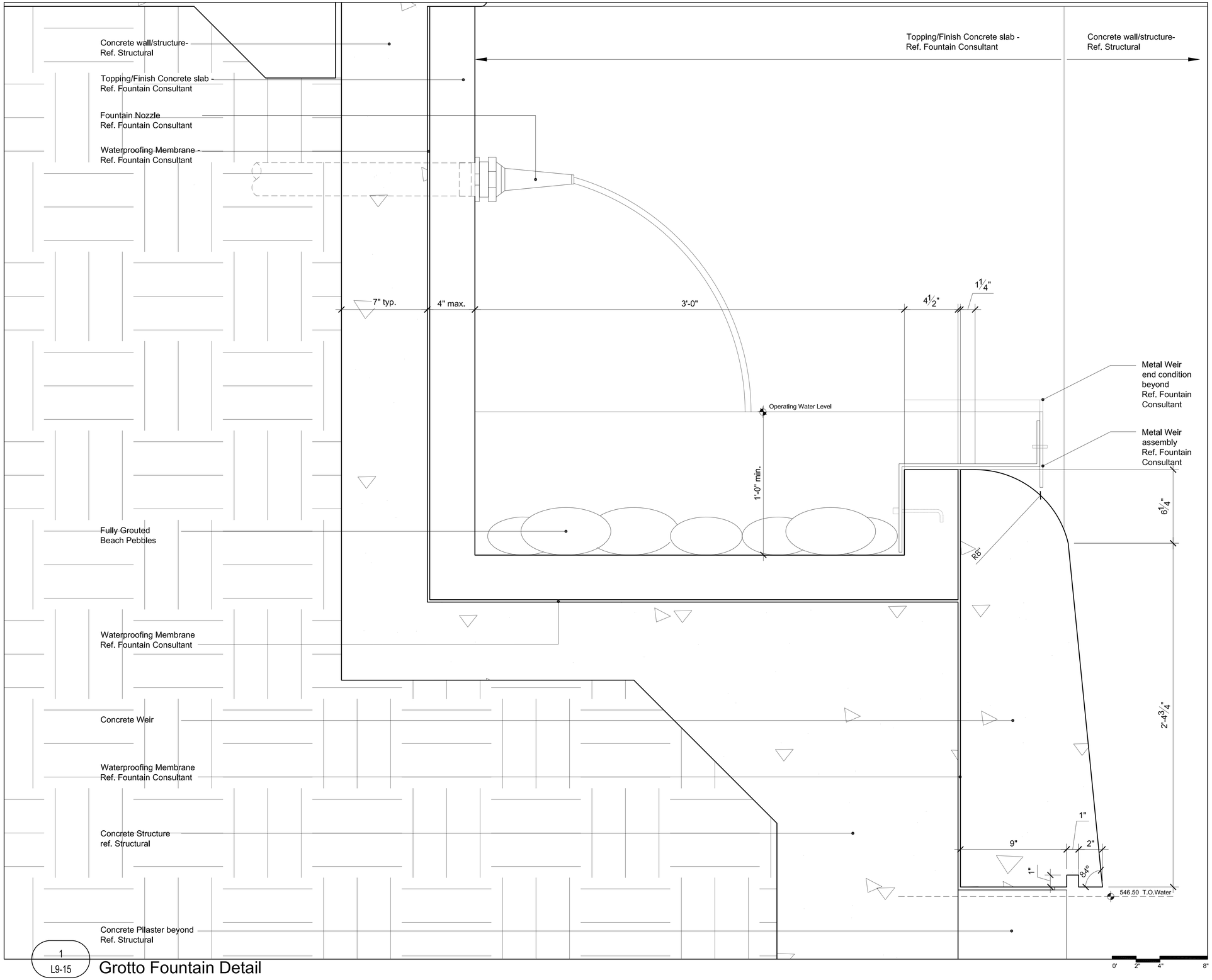
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

PERGOLA COLUMN AND ELEMENTS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009 BID	PW # 2009-04	L9-14

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



1
L9-15

Grotto Fountain Detail

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

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43. Vertical Control Joints: Ref. Structural
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65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
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- SE-1 Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

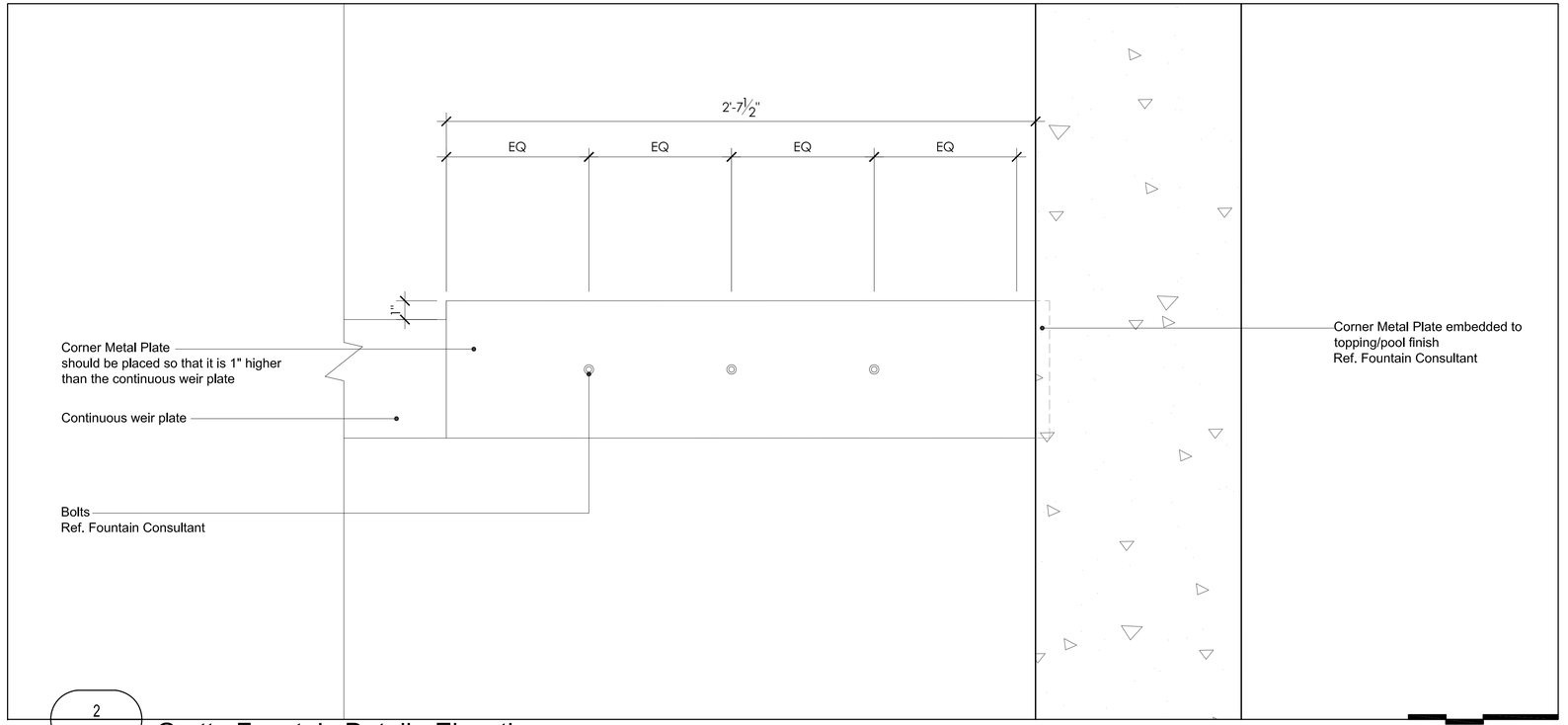
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

GROTTO FOUNDATION DETAILS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

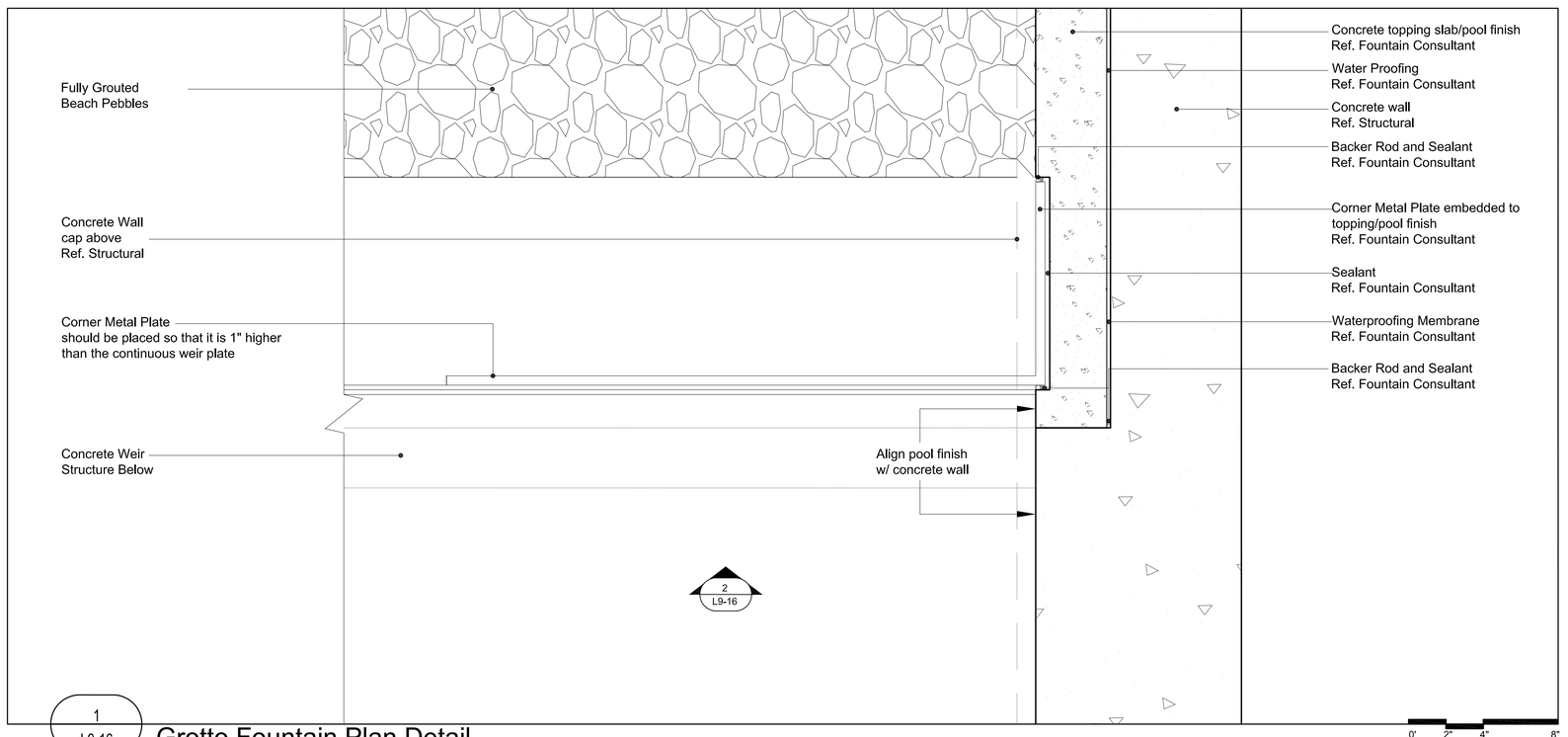
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009 BID	PW # 2009-04	L9-15

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



2
L9-16

Grotto Fountain Detail - Elevation



1
L9-16

Grotto Fountain Plan Detail

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

Refer to sheets L1-12 & L1-13 for furniture and park element details.

LEGEND

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73. Gravel
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LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
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- SE Suspended Strand - ref. Civil
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- SE-1 Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

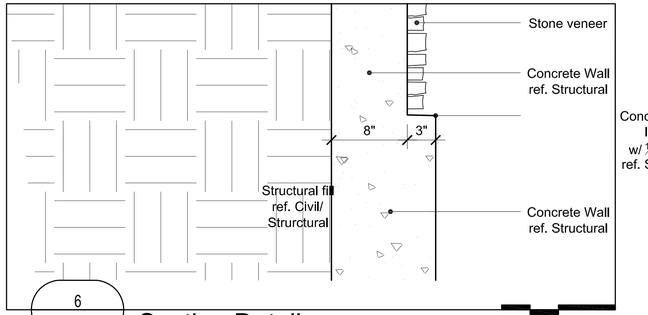
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

GROTTO FOUNTAIN DETAILS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

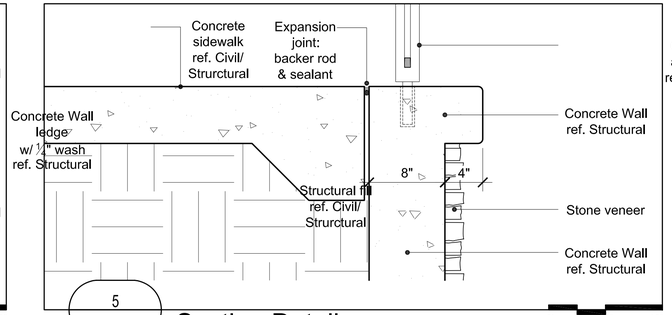
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PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



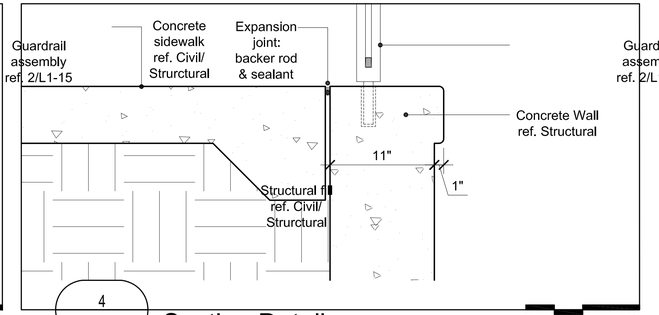
6 L9-17 Section Detail

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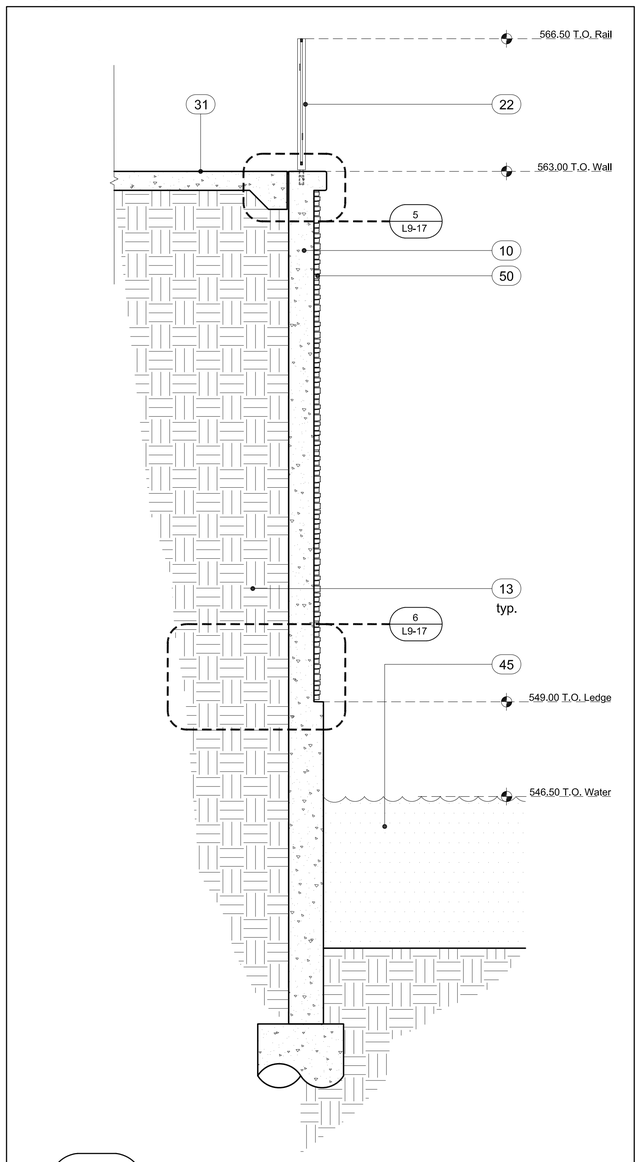
5 L9-17 Section Detail

0' 4" 8" 16"



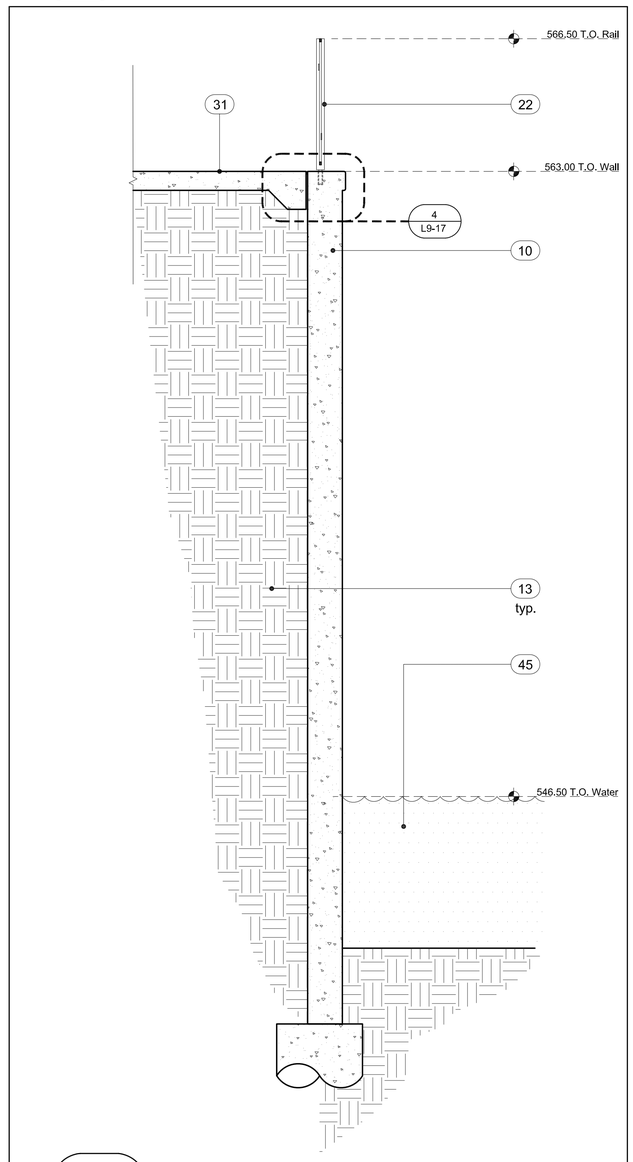
4 L9-17 Section Detail

0' 4" 8" 16"



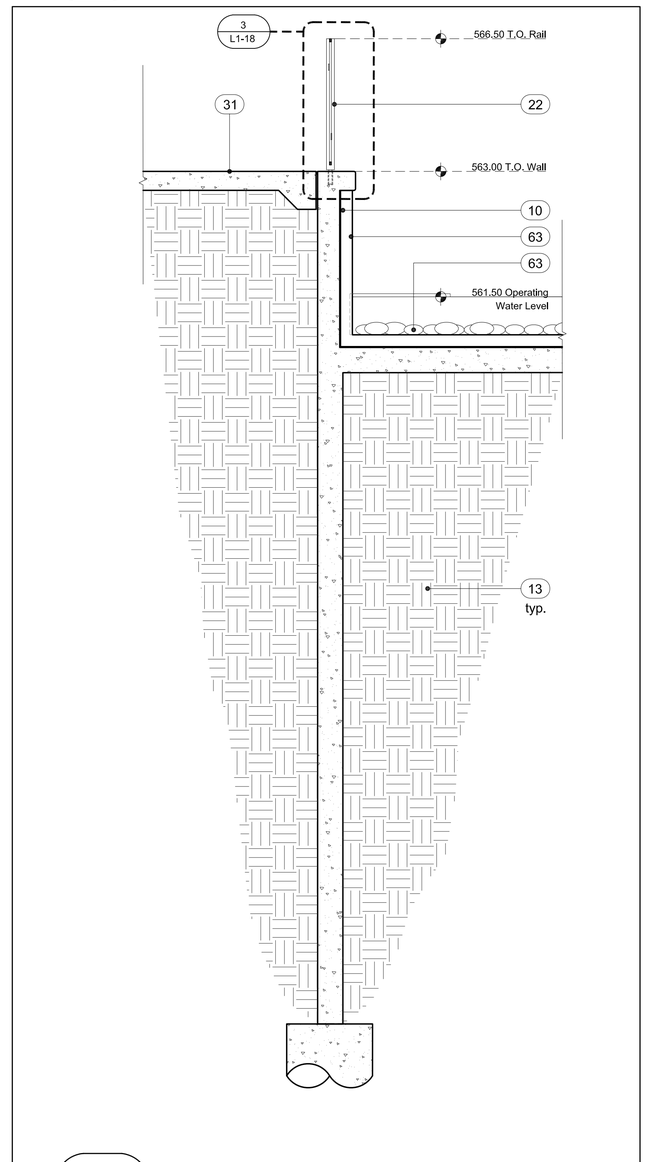
3 L9-17 Grotto Section

0' 1' 2' 4'



2 L9-17 Grotto Section

0' 1' 2' 4'



1 L9-17 Grotto Wall Section

0' 1' 2' 4'

GENERAL NOTE

Refer to sheet L1-01 Design Selection Summary for specific product, finishes, and colors.

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LEGEND

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6. Concrete Paving A
7. Concrete Paving B
8. Concrete Paving C
9. Concrete Paving D
10. Concrete Wall: ref. Structural
11A. Pavestone Concrete Paver A
11B. Pavestone Concrete Paver B
11C. Pavestone Concrete Paver C
11D. Pavestone Concrete Paver D
11E. Pavestone Concrete Paver E
12. Structural Concrete Masonry Unit Wall
13. Structural Fill: Reference Structural
14. Transformer/Switchgear: Ref. Civil
15. Drain Grate
16. Atrium Grate
17. Paver Grate
18. Metal Pergola
19. Metal Trellis
20. Trellis Above
21. Light Fixture Above
22. Metal Guard Rail
23. Metal Handrail
24. Metal Guard Rail and Handrail
25. Granite Bollard
26. Composite Decking
27. Concrete Pier: Locate in field to avoid conflict with existing tree roots - Ref. Structural
28. Structural Steel Beam: Ref. Structural
29. Structural Framing: Ref. Structural
30. Structural Steel Channel: Ref. Structural
31. Concrete walkway: Ref. Civil & Structural
32. Bridge: N.I.C. (Not In Contract)
33. Building Beyond: N.I.C. (Not In Contract)
34. Guardrail Beyond
35. Concrete Form Ties
36. Vertical Control Joints: Ref. Structural
37. Concrete Bench
38. Lake Edge Wall: Ref. Structural
39. Concrete Wall Beyond
40. Electrical: Ref. Civil
41. Concrete Curb - Reference structural
42. Access Panel - Reference structural
43. Vertical Control Joints: Ref. Structural
44. Concrete Weir: Reference Structural
45. Water
46. Hollow Metal Door and Frame
47. Existing Wooden Fence
48. Metal Gate
49. Limestone Boulder
50. Stone Veneer
60. Fully Grouted Beach Pebbles
61. Fountain: Ref. Fountain Consultant
62. Not Used
63. Fountain Pool: Ref. Fountain Consultant
64. Fountain Water Supply Line: Reference Fountain Consultant
65. Fountain Drain Line: Reference Fountain Consultant
66. Chair
67. Table
68. Pedestal Drinking Fountain
69. Litter Receptacle
70. Bench
71. Pet Waste Disposal System
72. Bike Rack
73. Gravel
74. Limestone Slab

LIGHTING

- SA (1,2,3,4,5,6,7,8,9) Pole Mount - ref. Civil
- SB Pole Mount - ref. Civil
- SC Wall Recessed - ref. Civil
- SE Suspended Strand - ref. Civil
- SE-1 Suspended Strand - ref. Civil
- SE-T Direct Imbedded Trans - ref. Civil
- SK1 Surface Mount - ref. Civil
- SK2 Surface Mount - ref. Civil
- L4 Pole Mount - ref. Civil
- L5 Ceiling Mount - ref. Civil

REGISTERED LANDSCAPE ARCHITECT KEVIN W. SLOAN 2296 STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

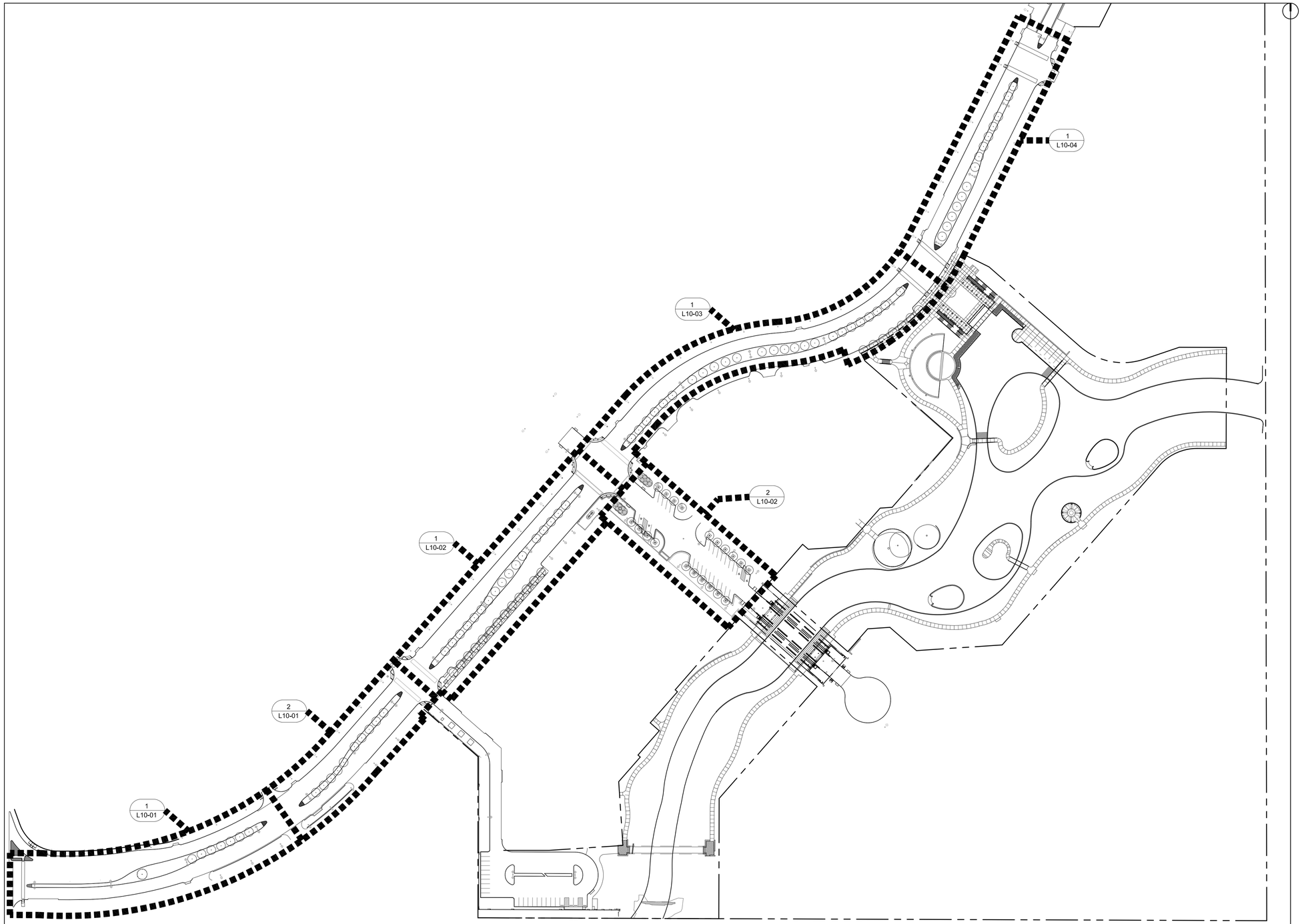
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

GROTTO WALL SECTIONS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS		NOV 03, 2009 BID	PW # 2009-04	L9-17

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



1
L10-00 Streetscape & Infrastructure Planting Plan Cover Sheet

0' 50' 100' 200'

PLANTING LEGEND

- A — Existing Tree to remain. Reference specifications for existing tree protection and treatment.
- B — Preserved Live Oak. *Quercus virginiana*. On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-05 & L11-08) for number suffix.
- C — Live Oak. *Quercus virginiana*. 4" cal, single trunk, container grown.
- C1 — Live Oak, 'High Rise'. *Quercus virginiana, 'QVTIA'*. 4" cal, single trunk, container grown.
- D — NOT USED.
- E — NOT USED.
- F — Red Oak. *Quercus texana*. 4" cal, container grown.
- G — Shumard Oak. *Quercus shumardii*. 4" cal, container grown.
- H — Chinkapin Oak. *Quercus muhlenbergii*. 4" cal, container grown.
- I — Bald Cypress. *Taxodium distichum*. 4" cal, container grown.
- J — Pond Cypress. *Taxodium ascendens*. 4" cal, container grown.
- K — Texas Ash. *Fraxinus texensis*. 4" cal, container grown.
- L — Lacebark Elm. *Ulmus parvifolia*. 4" caliper, container grown.
- M — River Birch. *Betula nigra*. 12-14' ht., 3-5 canes each, B&B.
- AA — NOT USED.
- BB — Savannah Holly. *Ilex opaca x attenuata 'Savannah'*. 4" cal, single trunk, 12' ht, tree form, container grown.
- CC — Natchez Crape Myrtle. *Lagerstroemia indica 'Natchez'*. 12'-14' ht, multi trunk, 3-5 canes, grown for height.
- CC-2 — Natchez Crape Myrtle. *Lagerstroemia indica 'Natchez'*. 10'-12' ht, multi trunk, 3-5 canes, grown for height.
- DD — Oklahoma Redbud. *Cercis canadensis 'Oklahoma'*. 3"-3 ½" cal, 8' ht, container grown
- EE — Weeping Love Grass. Eragrostis curvula
- FF — Vitex. *Vitex agnus-castus*. 65 gal, 10' ht, container, grown for height.
- GG — Asian Jasmine. *Trachelospermum asiaticum*. 1 gal, plant 18" o.c.
- HH — Horsetail Reed. *Equisetum hyemale*. 1 gal, plant 18" o.c.
- II — Grass Mix for Hydromulch. Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- JJ — Midiron Bermuda. *Cynodon dactylon* 'Midiron' sod, pinned on slopes greater than 6:1.
- KK — Harbor Dwarf Nandina. *Nandina domestica* 'Harbor Dwarf' 15 gal., 3' ht., 36" o.c.
- LL — Dwarf Chinese Holly. *Ilex cornuta 'Rotunda'*. 15 gal., 3' ht., 36" o.c.
- MM — Creeping Fig. *Ficus Pumila*. 1 gal., staggered 18"-24" o.c.
- NN — Mondo Grass. *Ophiopogon japonicus*. 4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

STREETSCAPE & INFRASTRUCTURE PLANTING PLAN COVER SHEET

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

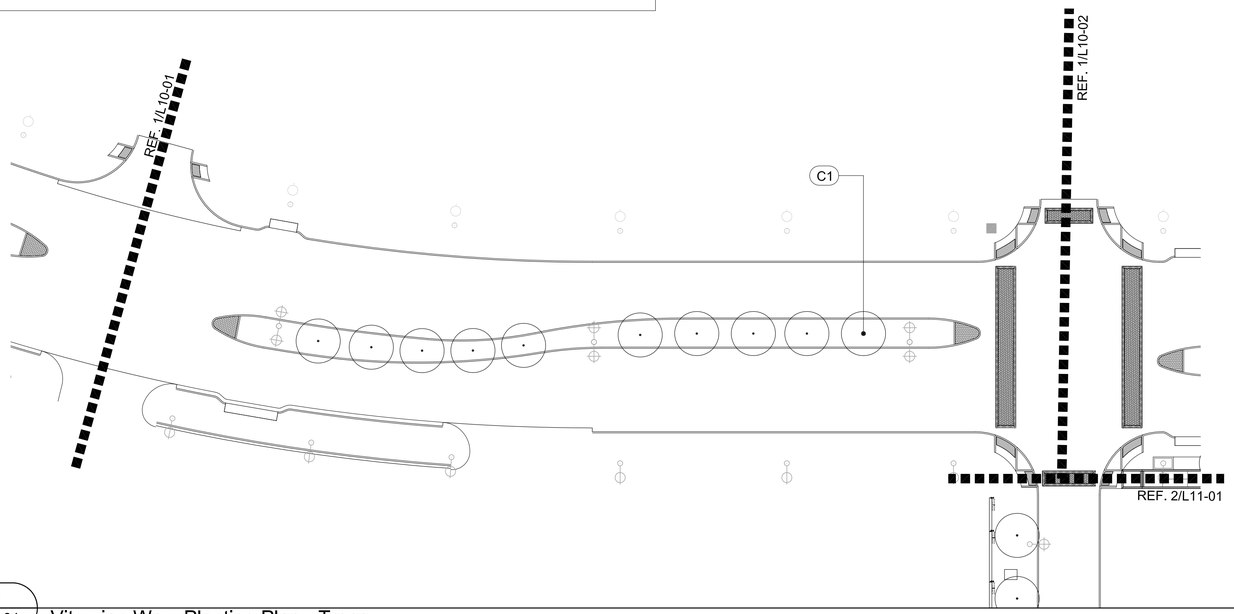
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	MM	NOV 03, 2009 BID	PW # 2009-04	L10-00

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PLANT QUANTITIES

C1 (10) Live Oak, 'High Rise'
Quercus virginiana, 'QVTIA'
4" cal, single trunk, container matched.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



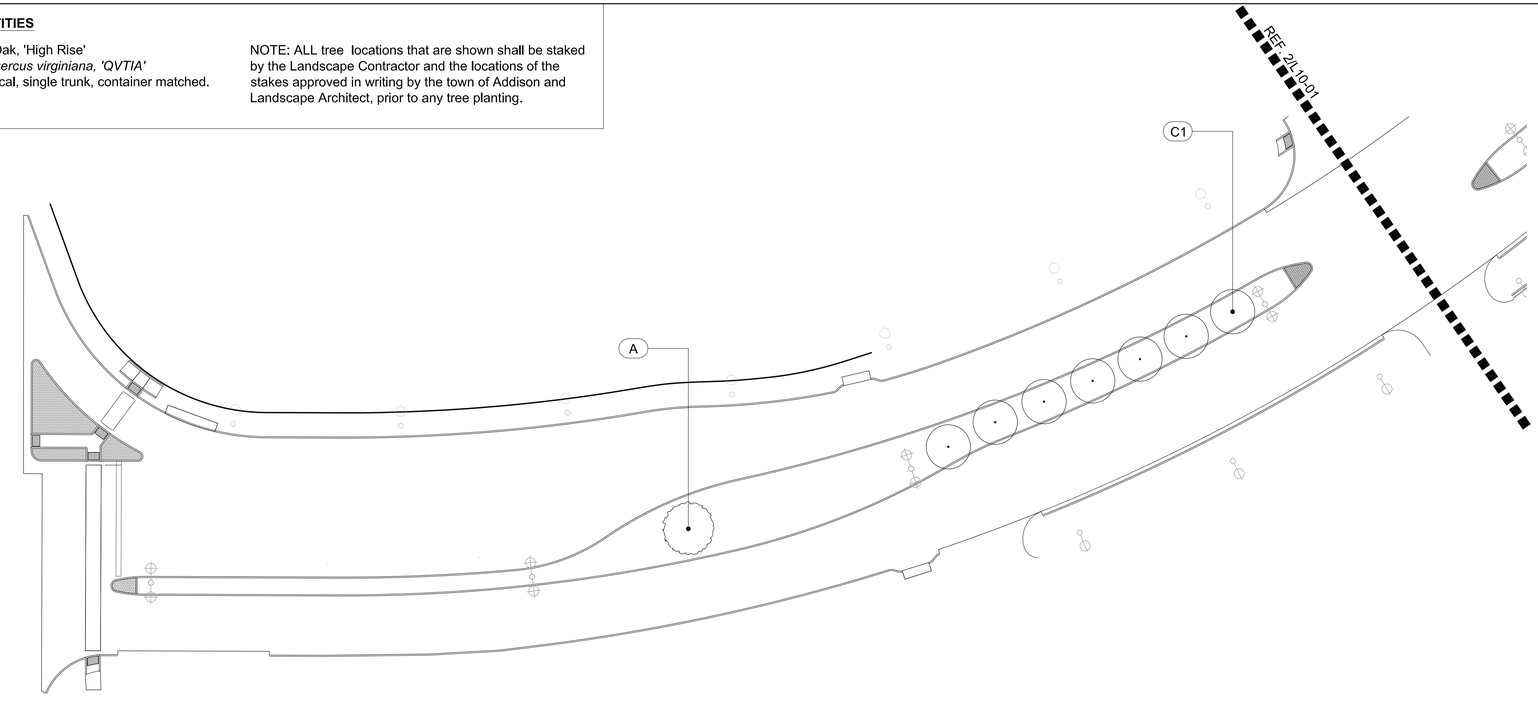
0' 15' 30' 60'

2
L10-01 Vitruvian Way, Planting Plan - Trees

PLANT QUANTITIES

C1 (7) Live Oak, 'High Rise'
Quercus virginiana, 'QVTIA'
4" cal, single trunk, container matched.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



0' 15' 30' 60'

1
L10-01 Vitruvian Way, Planting Plan - Trees

PLANTING LEGEND

- A — Existing Tree to remain. Reference specifications for existing tree protection and treatment.
- B — Preserved Live Oak. *Quercus virginiana*. On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-05 & L11-08) for number suffix.
- C — Live Oak. *Quercus virginiana*. 4" cal, single trunk, container grown.
- C1 — Live Oak, 'High Rise' *Quercus virginiana, 'QVTIA'* 4" cal, single trunk, container grown.
- D — NOT USED.
- E — NOT USED.
- F — Red Oak. *Quercus texana*. 4" cal, container grown.
- G — Shumard Oak. *Quercus shumardii*. 4" cal, container grown.
- H — Chinkapin Oak. *Quercus muhlenbergii*. 4" cal, container grown.
- I — Bald Cypress. *Taxodium distichum*. 4" cal, container grown.
- J — Pond Cypress. *Taxodium ascendens*. 4" cal, container grown.
- K — Texas Ash. *Fraxinus texensis*. 4" cal, container grown.
- L — Lacebark Elm. *Ulmus parvifolia*. 4" caliper, container grown.
- M — River Birch. *Betula nigra*. 12-14' ht,, 3-5 canes each, B&B.
- AA — NOT USED.
- BB — Savannah Holly. *Ilex opaca x attenuata 'Savannah'* 4" cal, single trunk, 12' ht, tree form, container grown.
- CC — Natchez Crape Myrtle. *Lagerstroemia indica 'Natchez'* 12'-14' ht, multi trunk, 3-5 canes, grown for height.
- CC-2 — Natchez Crape Myrtle. *Lagerstroemia indica 'Natchez'* 10'-12' ht, multi trunk, 3-5 canes, grown for height.
- DD — Oklahoma Redbud. *Cercis canadensis 'Oklahoma'* 3"-3 ½" cal, 8' ht, container grown
- EE — Weeping Love Grass. Eragrostis curvula
- FF — Vitex. *Vitex agnus-castus*. 65 gal, 10' ht, container, grown for height.
- GG — Asian Jasmine. *Trachelospermum asiaticum*. 1 gal, plant 18" o.c.
- HH — Horsetail Reed. *Equisetum hyemale*. 1 gal, plant 18" o.c.
- II — Grass Mix for Hydromulch. Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- JJ — Midiron Bermuda. *Cynodon dactylon* 'Midiron' sod, pinned on slopes greater than 6:1.
- KK — Harbor Dwarf Nandina. *Nandina domestica* 'Harbor Dwarf' 15 gal., 3' ht., 36" o.c.
- LL — Dwarf Chinese Holly. *Ilex cornuta 'Rotunda'* 15 gal., 3' ht., 36" o.c.
- MM — Creeping Fig. *Ficus Pumila*. 1 gal., staggered 18"-24" o.c.
- NN — Mondo Grass. *Ophiopogon japonicus*. 4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT · KEVIN W. SLOAN · 2296 · STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

VITRUVIAN WAY, PLANTING PLAN - TREES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009	PW # 2009-04	L10-01

BID

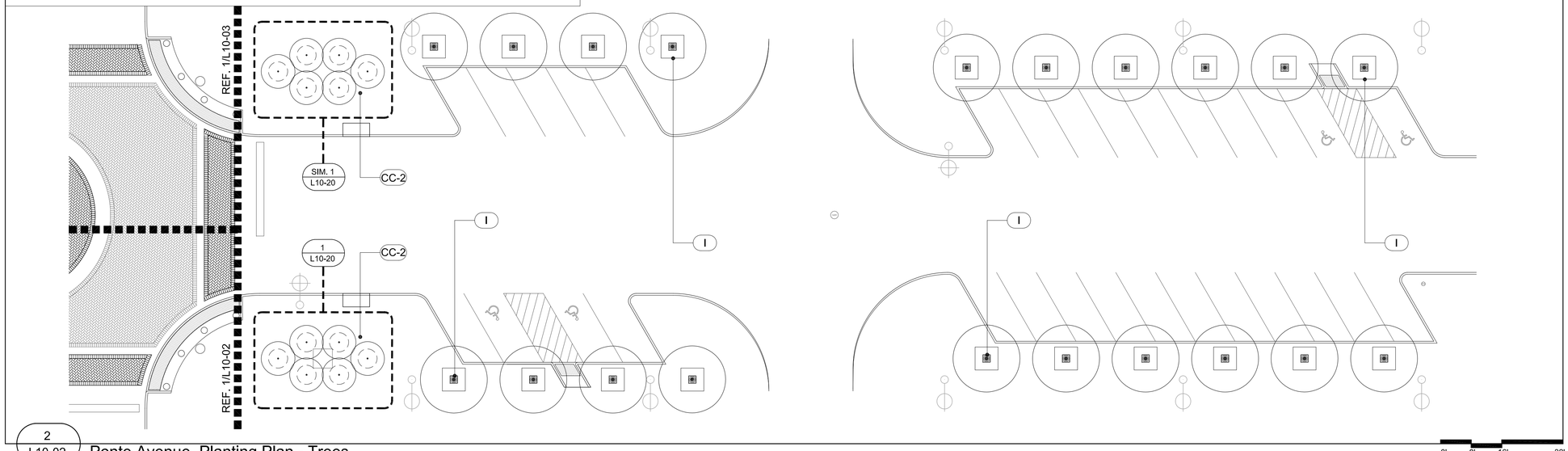
PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PLANT QUANTITIES

(I) (20) Bald Cypress
Taxodium distichum
4" cal, container matched.

(CC-2) (12) Natchez Crape Myrtle
Lagerstroemia indica 'Natchez'
10'-12' ht., multi trunk, 3-5 canes, matched for height.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.

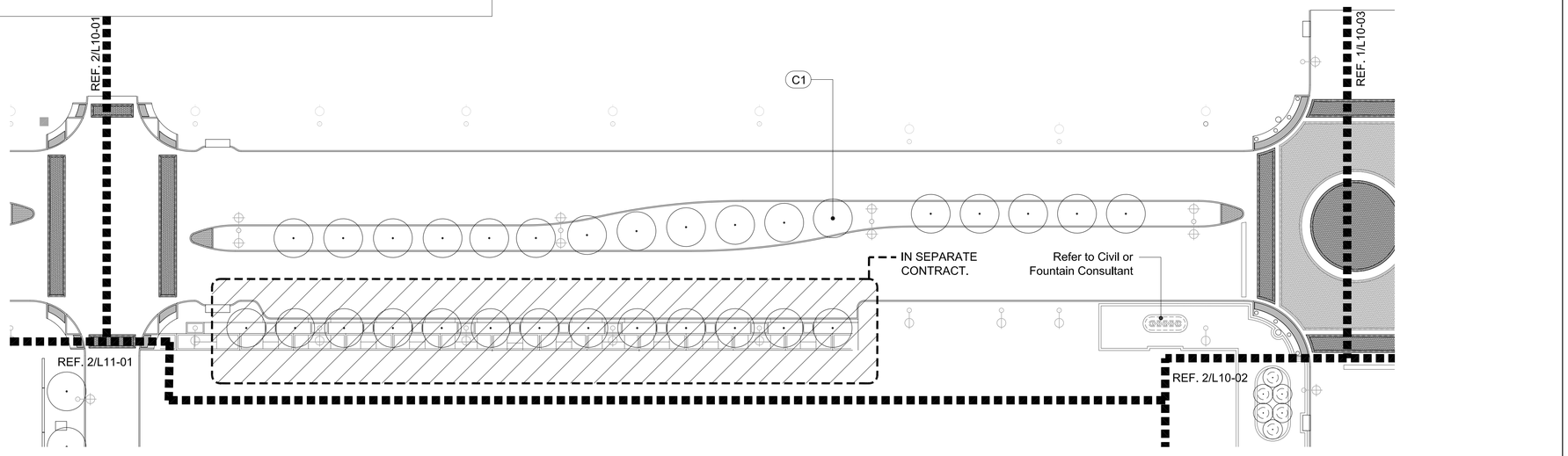


2
L10-02
Ponte Avenue, Planting Plan - Trees

PLANT QUANTITIES

(C1) (17) Live Oak, 'High Rise'
Quercus virginiana, 'QVTIA'
4" cal, single trunk, container matched.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



1
L10-02
Vitruvian Way, Planting Plan - Trees

PLANTING LEGEND

- (A) Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- (B) Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-05 & L11-08) for number suffix.
- (C) Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- (C1) Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- (D) NOT USED.
- (E) NOT USED.
- (F) Red Oak
  Quercus texana
  4" cal, container grown.
- (G) Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- (H) Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- (I) Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- (J) Pond Cypress
  Taxodium ascendens
  4" cal, container grown.
- (K) Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- (L) Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- (M) River Birch
  Betula nigra
  12-14' ht., 3-5 canes each, B&B.
- (AA) NOT USED.
- (BB) Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- (CC) Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- (CC-2) Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- (DD) Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- (EE) Weeping Love Grass
  Eragrostis curvula
- (FF) Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- (GG) Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- (HH) Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- (II) Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- (JJ) Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- (KK) Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- (LL) Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- (MM) Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- (NN) Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

VITRUVIAN WAY & PONTE AVENUE PLANTING PLAN - TREES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

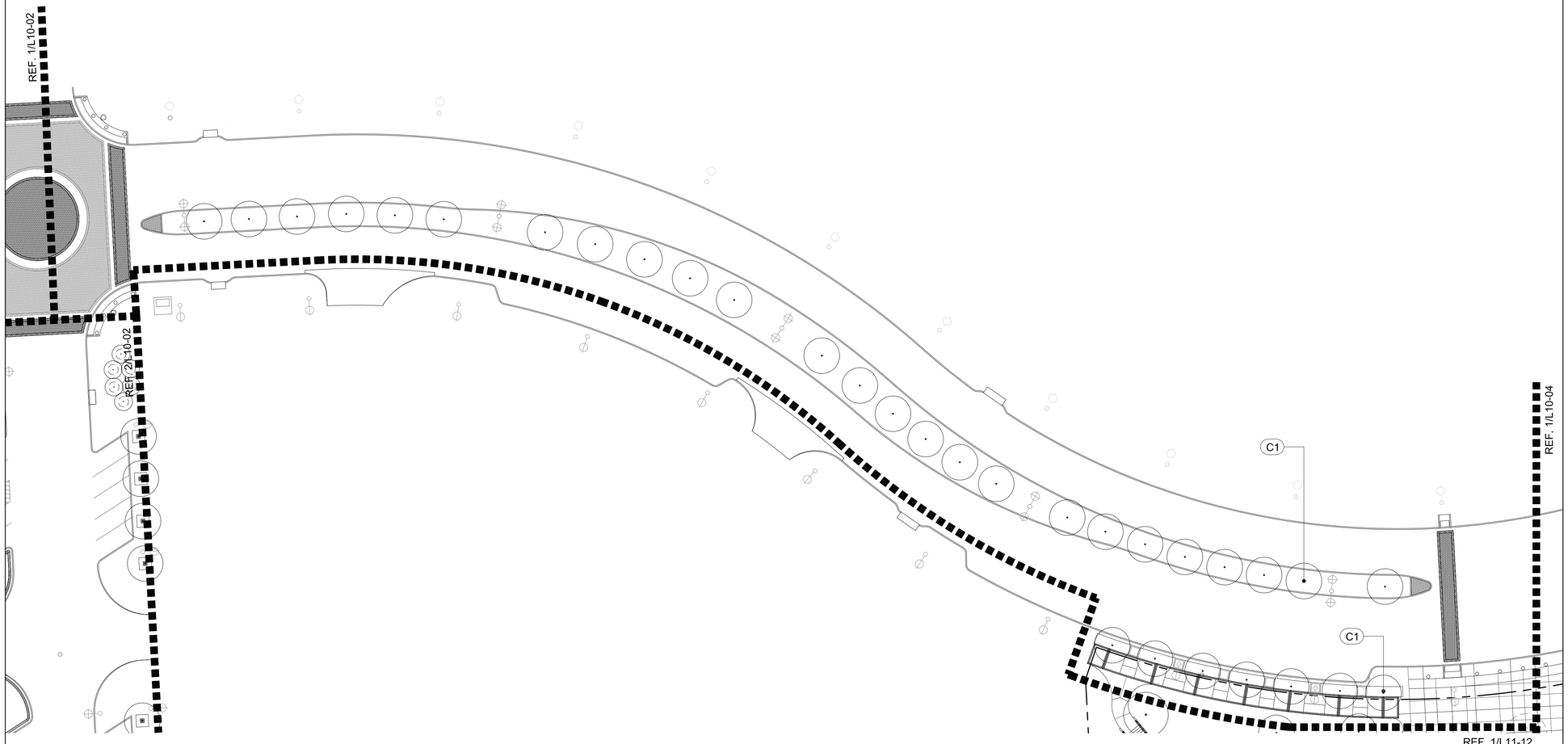
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L10-02

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PLANT QUANTITIES

C1 (32) Live Oak, 'High Rise'
Quercus virginiana, 'QVTIA'
4" cal, single trunk, container matched.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



1
L10-03 Vitruvian Way, Planting Plan - Trees

0' 15' 30' 60'

PLANTING LEGEND

- A Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- B Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-05 & L11-08) for number suffix.
- C Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- C1 Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- D NOT USED.
- E NOT USED.
- F Red Oak
  Quercus texana
  4" cal, container grown.
- G Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- H Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- I Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- J Pond Cypress
  Taxodium ascendens
  4" cal, container grown.
- K Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- L Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- M River Birch
  Betula nigra
  12-14' ht., 3-5 canes each, B&B.
- AA NOT USED.
- BB Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- CC Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- CC-2 Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- DD Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- EE Weeping Love Grass
  Eragrostis curvula
- FF Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- GG Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- HH Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- II Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- JJ Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- KK Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- LL Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- MM Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- NN Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

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2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
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4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

VITRUVIAN WAY, PLANTING PLAN - TREES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

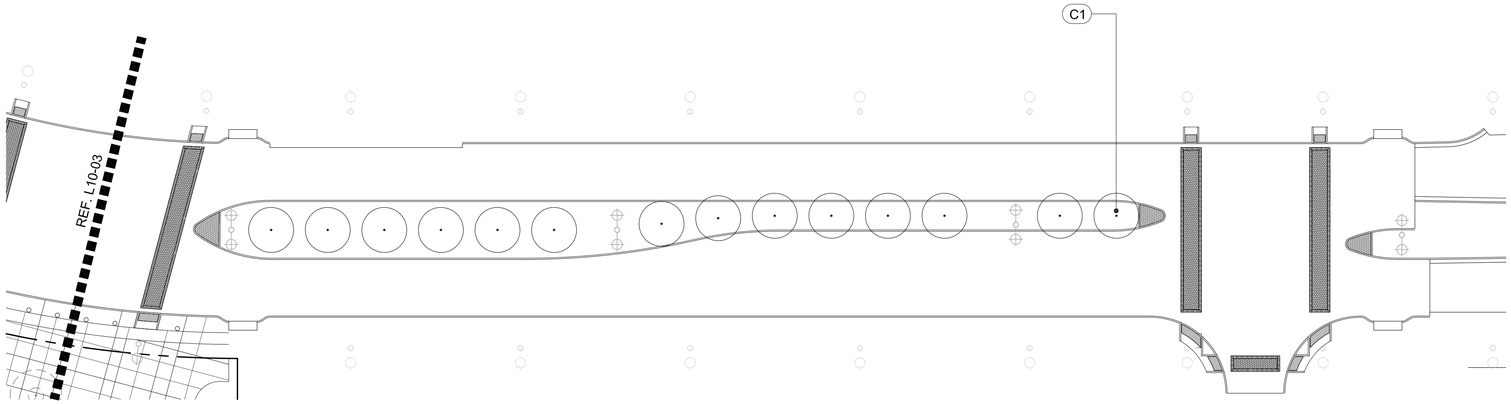
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	MM	NOV 03, 2009 BID	PW # 2009-04	L10-03

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PLANT QUANTITIES

C1 (14) Live Oak, 'High Rise'
Quercus virginiana, 'QVTIA'
4" cal, single trunk, container matched.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



1
L10-04
Vitruvian Way, Planting Plan - Trees

0' 15' 30' 60'

PLANTING LEGEND

- A — Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- B — Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-05 & L11-08) for number suffix.
- C — Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- C1 — Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- D — NOT USED.
- E — NOT USED.
- F — Red Oak
  Quercus texana
  4" cal, container grown.
- G — Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- H — Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- I — Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- J — Pond Cypress
  Taxodium ascendens
  4" cal, container grown,
- K — Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- L — Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- M — River Birch
  Betula nigra
  12-14' ht,, 3-5 canes each, B&B.
- AA — NOT USED.
- BB — Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- CC — Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- CC-2 — Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- DD — Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- EE — Weeping Love Grass
  Eragrostis curvula
- FF — Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- GG — Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- HH — Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- II — Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- JJ — Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- KK — Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- LL — Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- MM — Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- NN — Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

VITRUVIAN WAY, PLANTING PLAN - TREES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

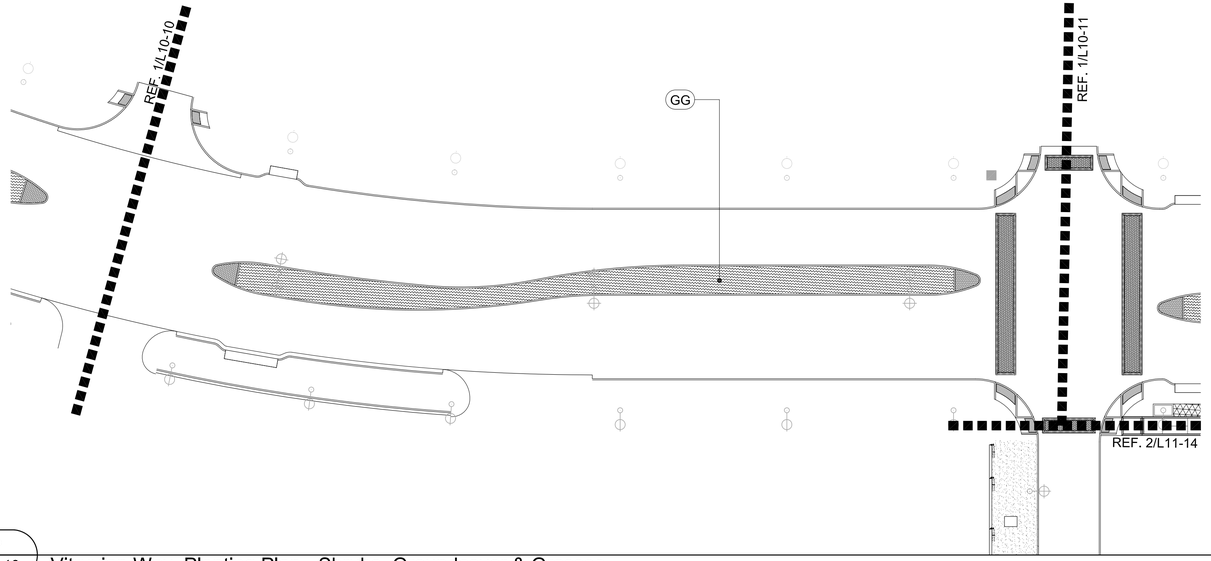
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	MM	NOV 03, 2009 BID	PW # 2009-04	L10-04

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PLANT QUANTITIES

GG (2,855 sf.) Asian Jasmine
Trachelospermum asiaticum
1 gal, plant 18" o.c.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



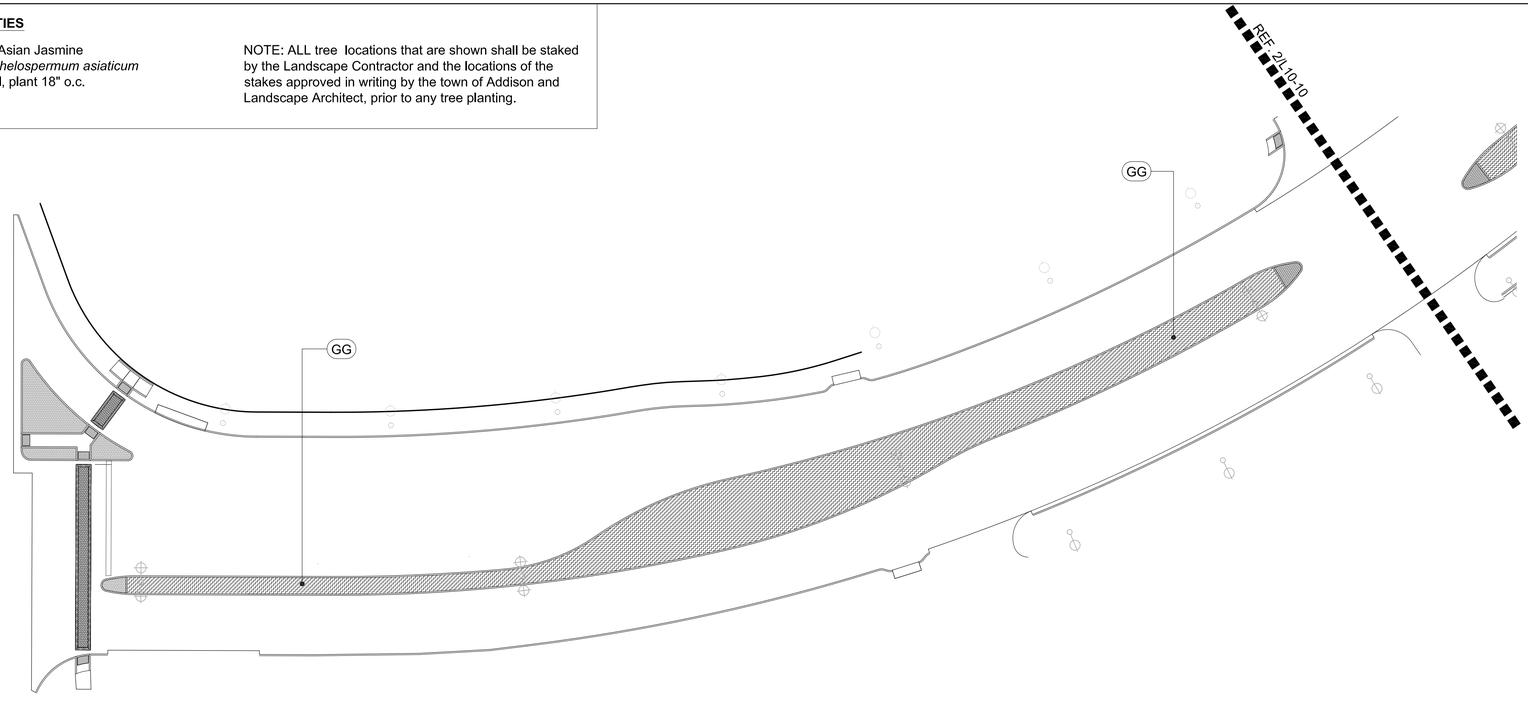
2
L10-10 Vitruvian Way, Planting Plan - Shrubs, Groundcover & Grasses

0' 15' 30' 60'

PLANT QUANTITIES

GG (4,096 sf.) Asian Jasmine
Trachelospermum asiaticum
1 gal, plant 18" o.c.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



1
L10-10 Vitruvian Way, Planting Plan - Shrubs, Groundcover & Grasses

0' 15' 30' 60'

PLANTING LEGEND

- A Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- B Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-05 & L11-08) for number suffix.
- C Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- C1 Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- D NOT USED.
- E NOT USED.
- F Red Oak
  Quercus texana
  4" cal, container grown.
- G Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- H Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- I Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- J Pond Cypress
  Taxodium ascendens
  4" cal, container grown.
- K Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- L Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- M River Birch
  Betula nigra
  12-14' ht,, 3-5 canes each, B&B.
- AA NOT USED.
- BB Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- CC Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- CC-2 Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- DD Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- EE Weeping Love Grass
  Eragrostis curvula
- FF Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- GG Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- HH Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- II Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- JJ Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- KK Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- LL Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- MM Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- NN Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

VITRUVIAN WAY, PLANTING PLAN - SHRUBS,GROUNDCOVER & GRASSES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

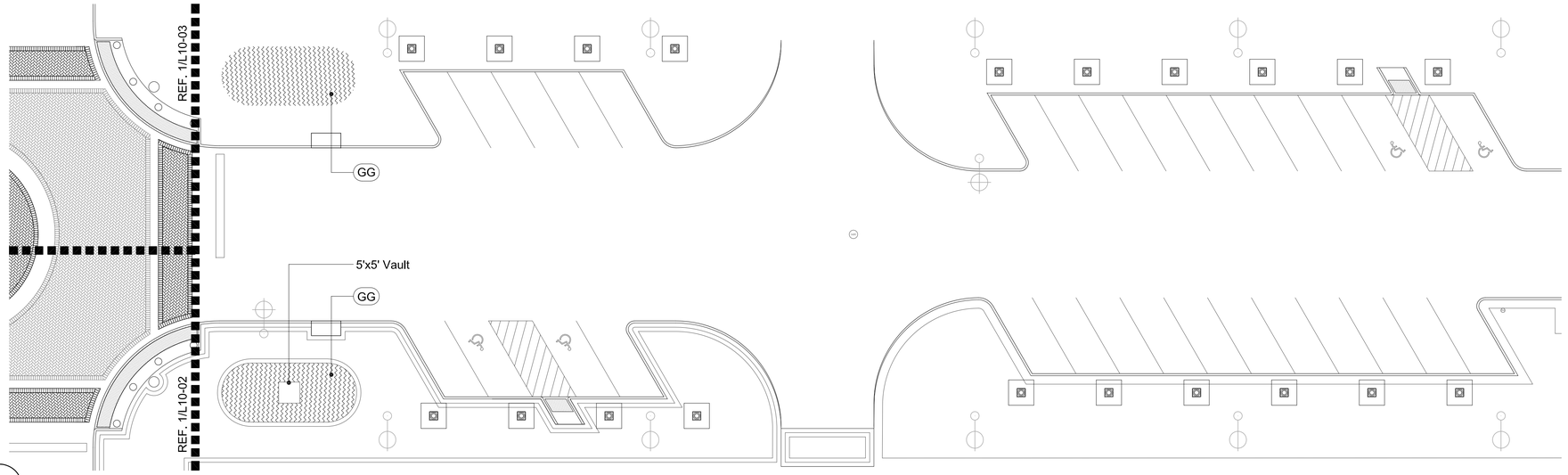
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L10-10

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PLANT QUANTITIES

GG (812 sf.) Asian Jasmine
Trachelospermum asiaticum
4" pot., max 8" o.c., diamond pattern.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



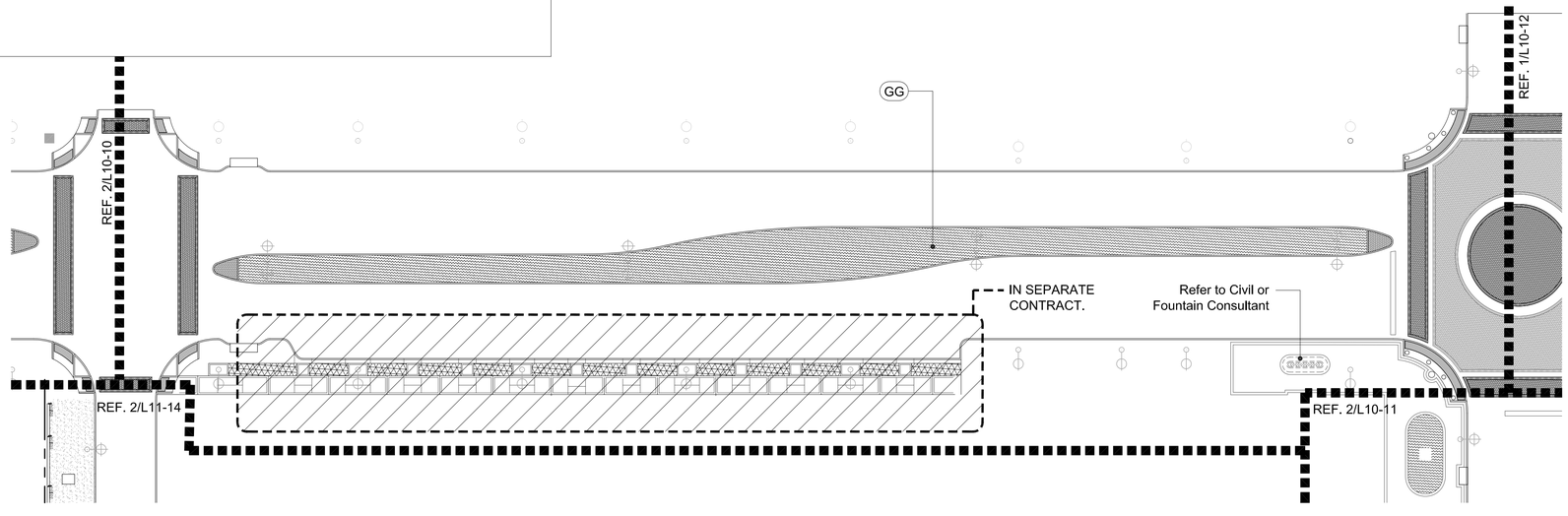
2
L10-11
Ponte Avenue, Planting Plan - Shrubs, Groundcover & Grasses

0' 8' 16' 32'

PLANT QUANTITIES

GG (7,029 sf.) Asian Jasmine
Trachelospermum asiaticum
1 gal, plant 18" o.c.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



1
L10-11
Vitruvian Way, Planting Plan - Shrubs, Groundcover & Grasses

0' 15' 30' 60'

PLANTING LEGEND

- A Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- B Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-05 & L11-08) for number suffix.
- C Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- C1 Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- D NOT USED.
- E NOT USED.
- F Red Oak
  Quercus texana
  4" cal, container grown.
- G Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- H Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- I Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- J Pond Cypress
  Taxodium ascendens
  4" cal, container grown,
- K Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- L Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- M River Birch
  Betula nigra
  12-14' ht,, 3-5 canes each, B&B.
- AA NOT USED.
- BB Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- CC Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- CC-2 Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- DD Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- EE Weeping Love Grass
  Eragrostis curvula
- FF Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- GG Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- HH Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- II Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- JJ Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- KK Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- LL Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- MM Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- NN Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

VITRUVIAN WAY & PONTE AVENUE PLANTING PLAN - SHRUBS,GROUNDCOVER & GRASSES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L10-11

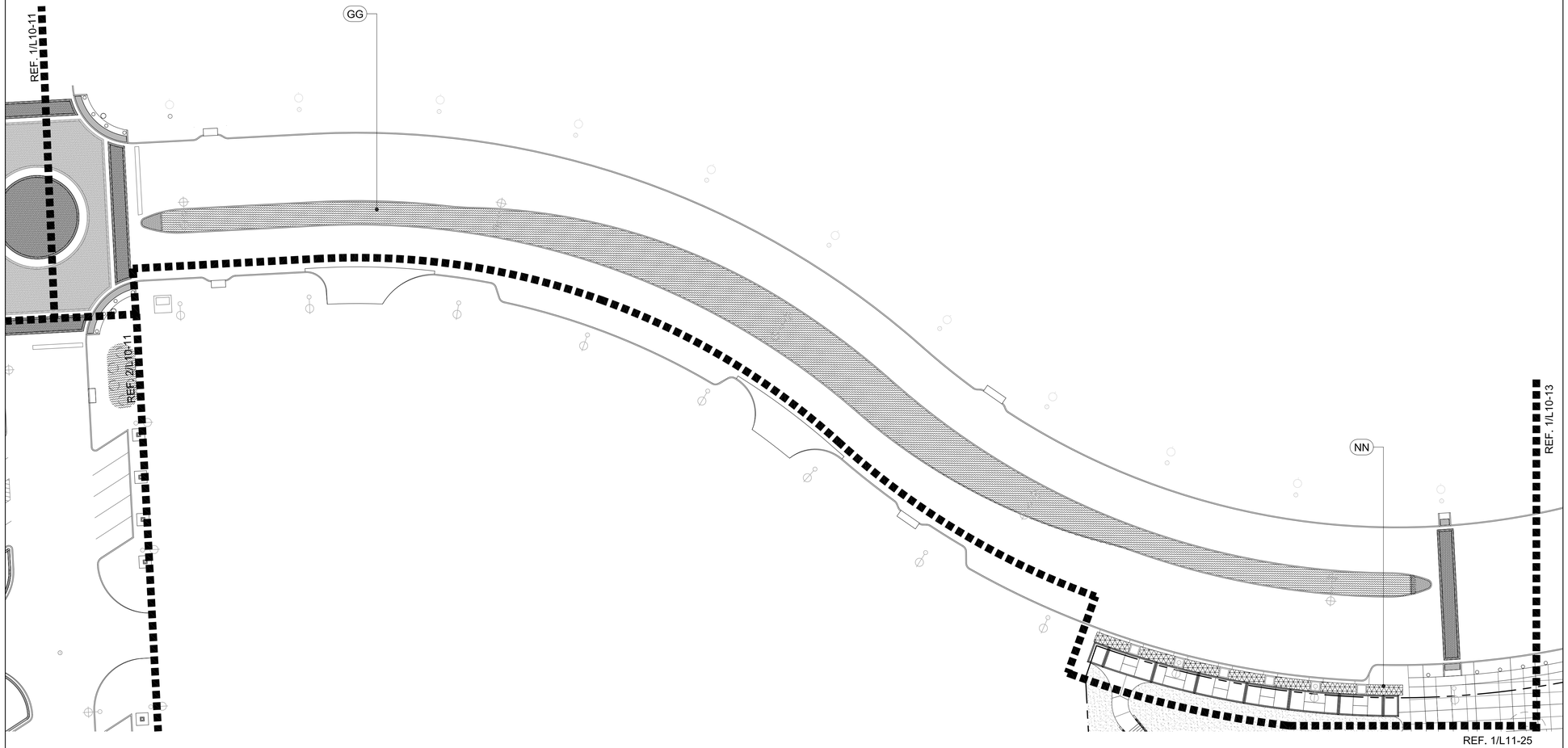
PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PLANT QUANTITIES

GG (10,732 sf.) Asian Jasmine
Trachelospermum asiaticum
1 gal, plant 18" o.c.

NN (624 sf.) Mondo Grass
Ophiopogon japonicus
4" pot., max 8" o.c., diamond pattern.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



1
L10-12
Vitruvian Way, Planting Plan - Shrubs, Groundcover & Grasses

PLANTING LEGEND

- A — Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- B — Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-05 & L11-08) for number suffix.
- C — Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- C1 — Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- D — NOT USED.
- E — NOT USED.
- F — Red Oak
  Quercus texana
  4" cal, container grown.
- G — Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- H — Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- I — Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- J — Pond Cypress
  Taxodium ascendens
  4" cal, container grown,
- K — Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- L — Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- M — River Birch
  Betula nigra
  12-14' ht,, 3-5 canes each, B&B.
- AA — NOT USED.
- BB — Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- CC — Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- CC-2 — Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- DD — Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- EE — Weeping Love Grass
  Eragrostis curvula
- FF — Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- GG — Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- HH — Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- II — Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- JJ — Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- KK — Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- LL — Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- MM — Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- NN — Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

VITRUVIAN WAY, PLANTING PLAN - SHRUBS,GROUNDCOVER & GRASSES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

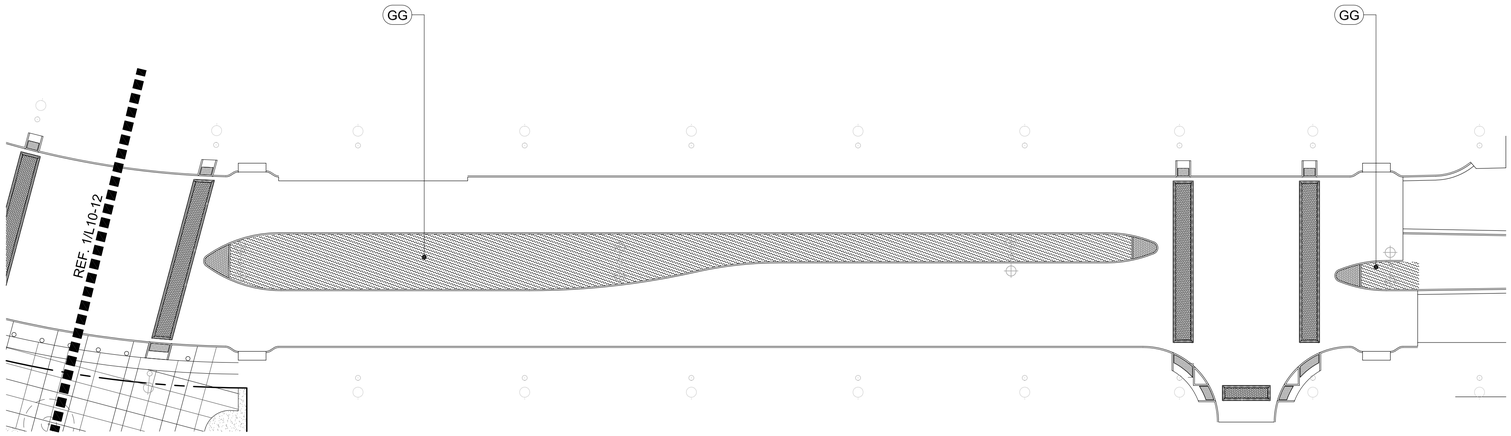
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	MM	NOV 03, 2009 BID	PW # 2009-04	L10-12

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PLANT QUANTITIES

GG (6,194 sf.) Asian Jasmine
Trachelospermum asiaticum
1 gal, plant 18" o.c.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



1
L10-13 Vitruvian Way, Planting Plan - Shrubs, Groundcover & Grasses

0' 15' 30' 60'

PLANTING LEGEND

- A Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- B Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-05 & L11-08) for number suffix.
- C Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- C1 Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- D NOT USED.
- E NOT USED.
- F Red Oak
  Quercus texana
  4" cal, container grown.
- G Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- H Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- I Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- J Pond Cypress
  Taxodium ascendens
  4" cal, container grown,
- K Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- L Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- M River Birch
  Betula nigra
  12-14' ht,, 3-5 canes each, B&B.
- AA NOT USED.
- BB Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- CC Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- CC-2 Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- DD Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- EE Weeping Love Grass
  Eragrostis curvula
- FF Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- GG Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- HH Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- II Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- JJ Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- KK Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- LL Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- MM Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- NN Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

VITRUVIAN WAY, PLANTING PLAN - SHRUBS,GROUNDCOVER & GRASSES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

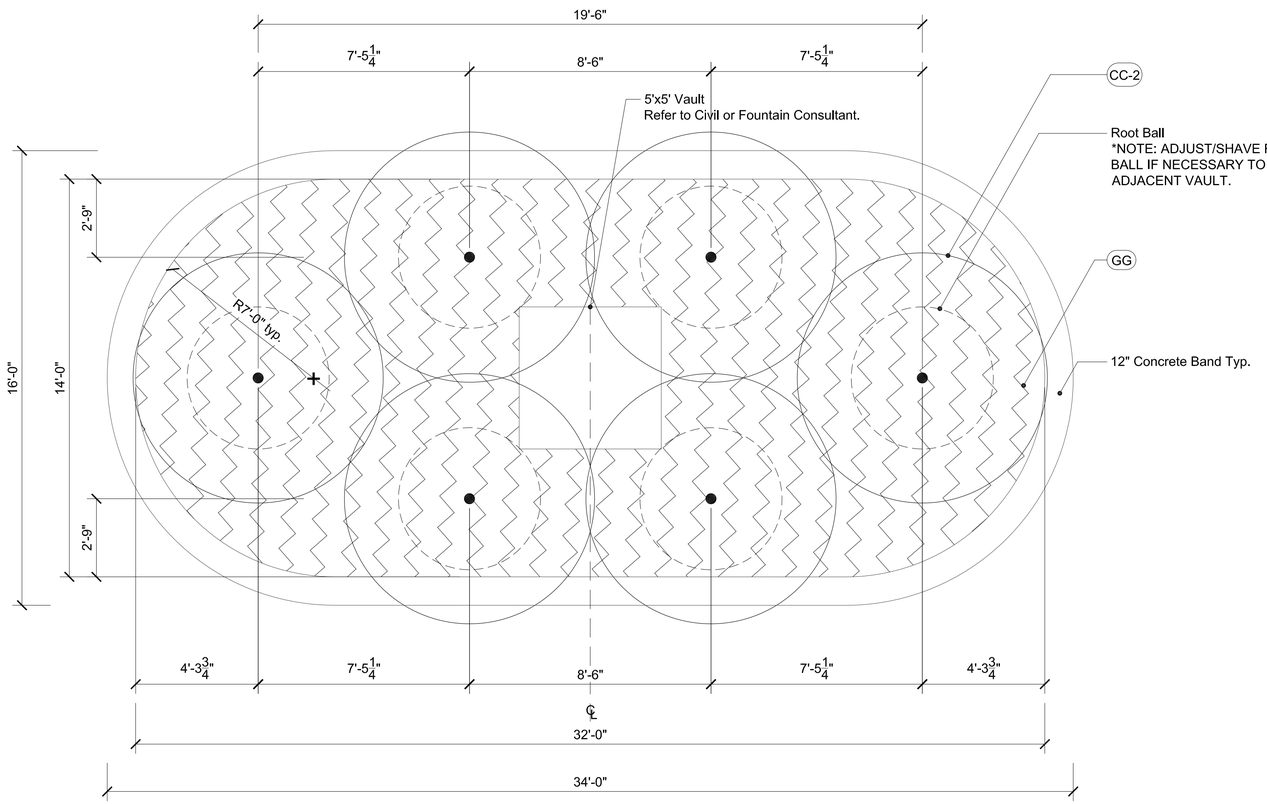
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	MM	NOV 03, 2009 BID	PW # 2009-04	L10-13

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PLANT QUANTITIES

CC-2 (6) Natchez Crape Myrtle
Lagerstroemia indica 'Natchez'
10'-12' ht., multi trunk, 3-5 canes, matched for height.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



1
L10-20 Ponte Avenue, Planting Area Enlargement

0' 1' 2' 4'

PLANTING LEGEND

- (A) Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- (B) Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-05 & L11-08) for number suffix.
- (C) Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- (C1) Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- (D) NOT USED.
- (E) NOT USED.
- (F) Red Oak
  Quercus texana
  4" cal, container grown.
- (G) Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- (H) Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- (I) Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- (J) Pond Cypress
  Taxodium ascendens
  4" cal, container grown,
- (K) Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- (L) Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- (M) River Birch
  Betula nigra
  12-14' ht,, 3-5 canes each, B&B.
- (AA) NOT USED.
- (BB) Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- (CC) Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- (CC-2) Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- (DD) Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- (EE) Weeping Love Grass
  Eragrostis curvula
- (FF) Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- (GG) Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- (HH) Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- (II) Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- (JJ) Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- (KK) Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- (LL) Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- (MM) Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- (NN) Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT KEVIN W. SLOAN 2296 STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

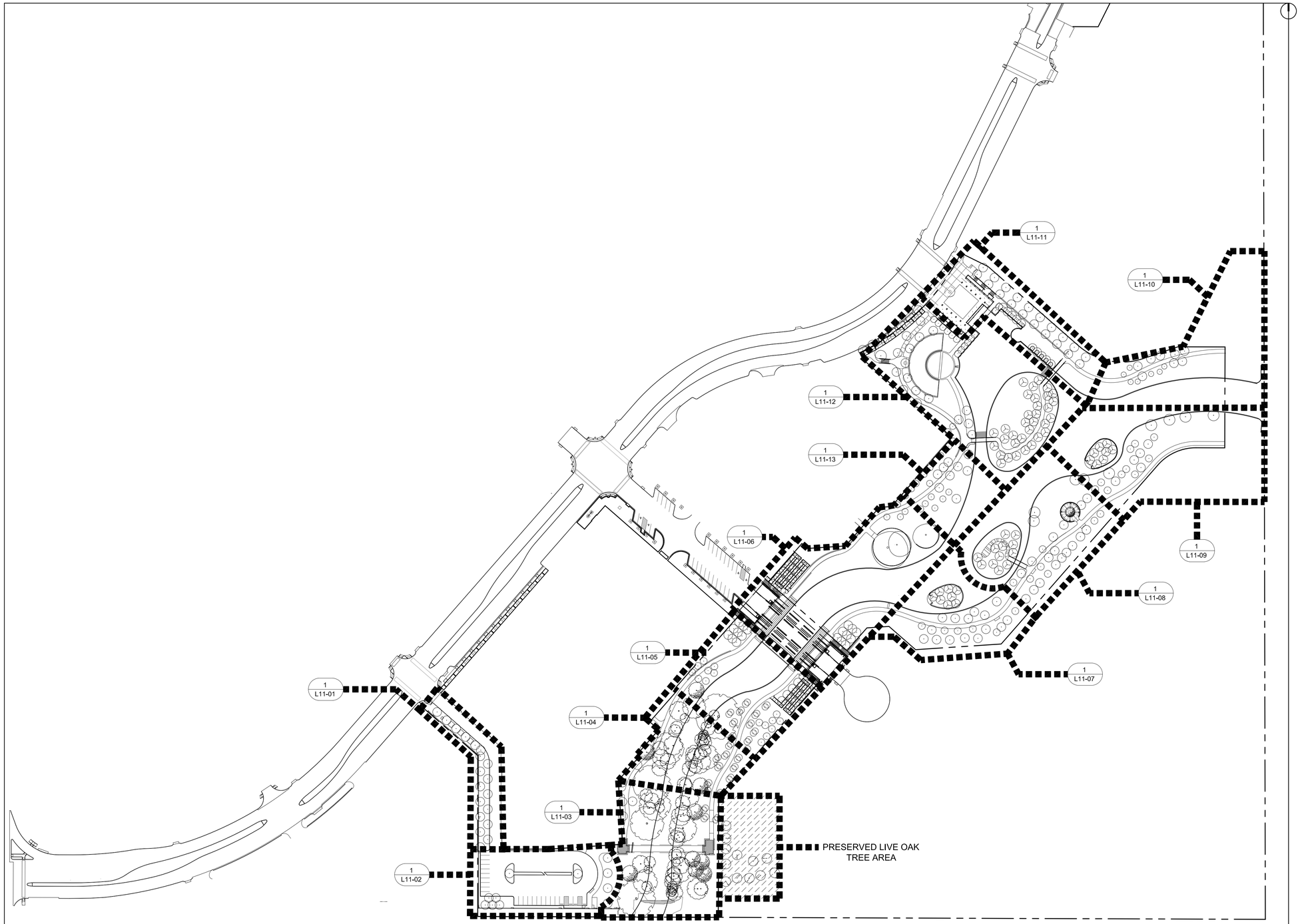
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

PONTE AVENUE PLANTING AREA ENLARGEMENT

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	MM	NOV 03, 2009 BID	PW # 2009-04	L10-20

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



1
L11-00
Vitruvian Park Planting Plan Cover Sheet

PLANTING LEGEND

- A — Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- B — Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.
- C — Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- C1 — Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- D — NOT USED.
- E — NOT USED.
- F — Red Oak
  Quercus texana
  4" cal, container grown.
- G — Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- H — Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- I — Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- J — Pond Cypress
  Taxodium ascendens
  4" cal, container grown,
- K — Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- L — Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- M — River Birch
  Betula nigra
  12-14' ht,, 3-5 canes each, B&B.
- AA — NOT USED.
- BB — Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- CC — Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- CC-2 — Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- DD — Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- EE — Weeping Love Grass
  Eragrostis curvula
- FF — Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- GG — Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- HH — Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- II — Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- JJ — Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- KK — Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- LL — Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- MM — Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- NN — Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

VITRUVIAN PARK
PLANTING PLAN COVER SHEET

KEVIN SLOAN STUDIO
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Dallas, Texas 75204 (214) 379-1061

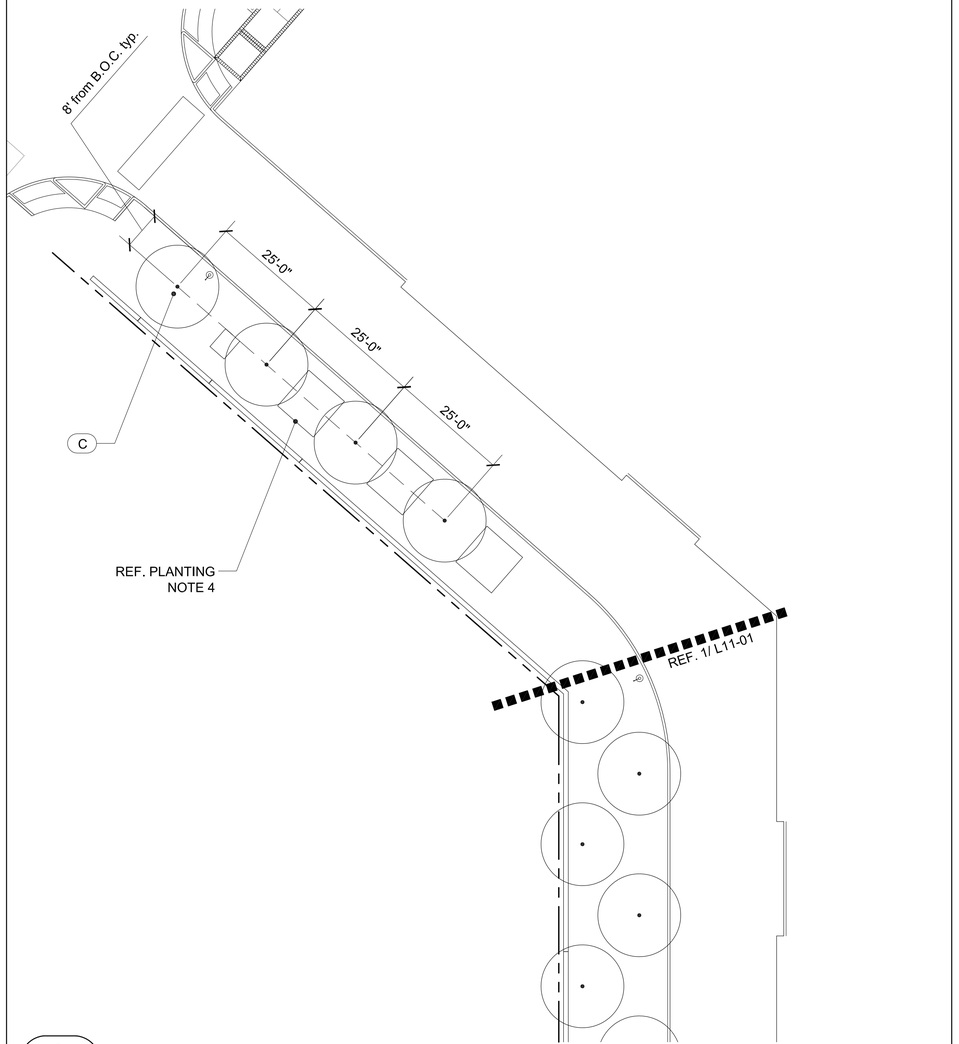
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	MM	NOV 03, 2009 BID	PW # 2009-04	L11-00

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PLANT QUANTITIES

C (4) Live Oak
Quercus virginiana
4" cal, single trunk, container matched.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



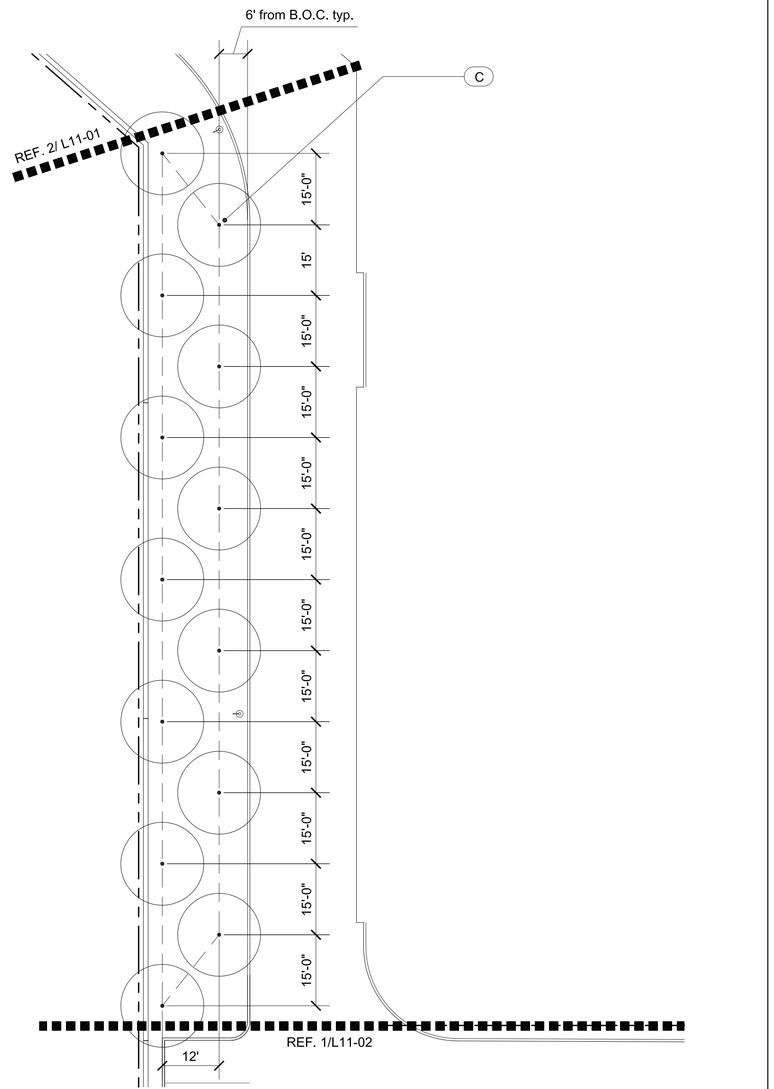
2
L11-01
Southern Parking Area and Drive, Planting Plan - Trees

0' 8' 16' 32'

PLANT QUANTITIES

C (13) Live Oak
Quercus virginiana
4" cal, single trunk, container matched.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



1
L11-01
Southern Parking Area and Drive, Planting Plan - Trees

0' 8' 16' 32'

PLANTING LEGEND

- A Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- B Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.
- C Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- C1 Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- D NOT USED.
- E NOT USED.
- F Red Oak
  Quercus texana
  4" cal, container grown.
- G Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- H Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- I Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- J Pond Cypress
  Taxodium ascendens
  4" cal, container grown.
- K Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- L Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- M River Birch
  Betula nigra
  12-14' ht,, 3-5 canes each, B&B.
- AA NOT USED.
- BB Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- CC Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- CC-2 Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- DD Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- EE Weeping Love Grass
  Eragrostis curvula
- FF Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- GG Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- HH Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- II Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- JJ Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- KK Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- LL Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- MM Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- NN Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT KEVIN W. SLOAN 2296 STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

SOUTHERN PARKING AREA AND DRIVE PLANTING PLAN - TREES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-01

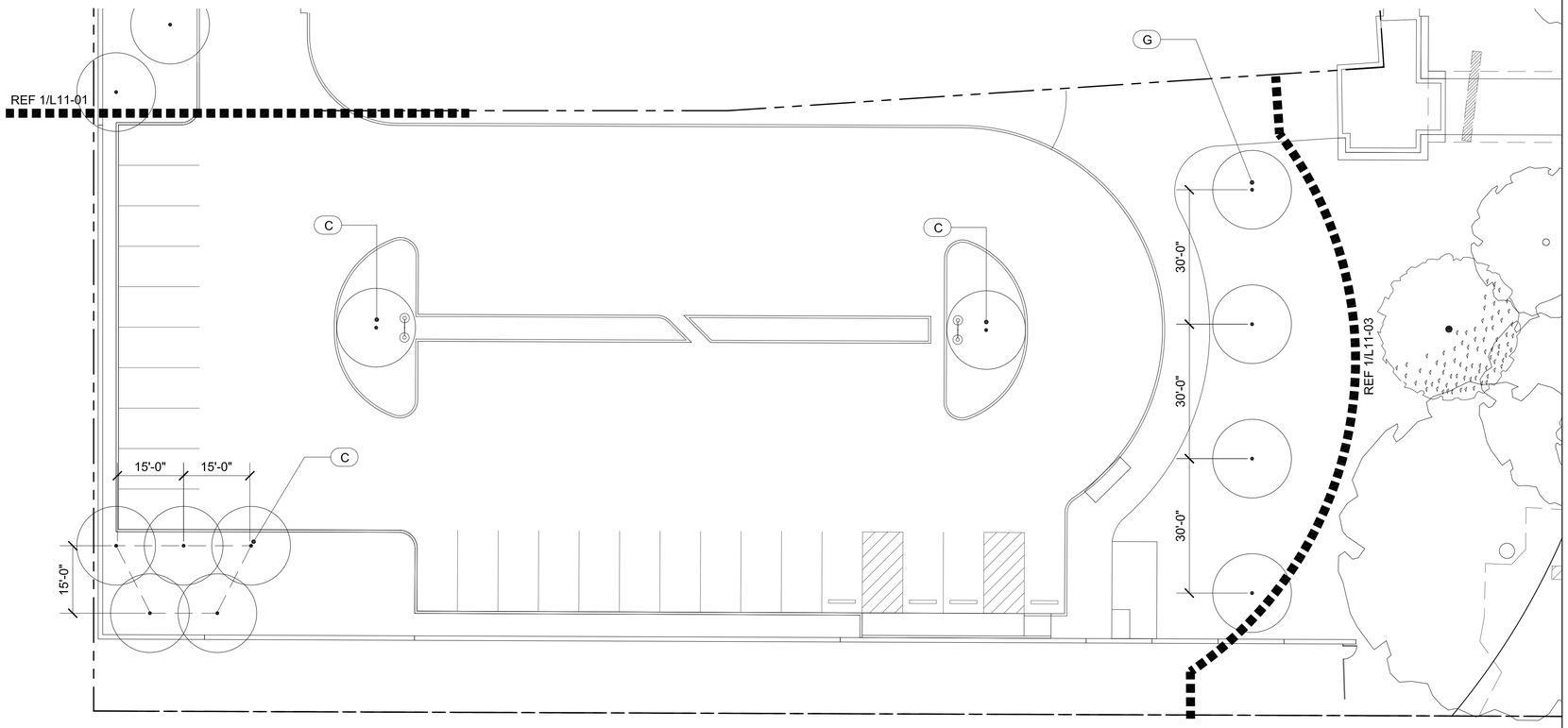
PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PLANT QUANTITIES

(C) (7) Live Oak
Quercus virginiana
4" cal, single trunk, container matched.

(G) (4) Shumard Oak
Quercus shumardii
4" cal, B&B.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



1
L11-02
Southern Parking Area and Drive, Planting Plan - Trees

PLANTING LEGEND

- (A) Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- (B) Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.
- (C) Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- (C1) Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- (D) NOT USED.
- (E) NOT USED.
- (F) Red Oak
  Quercus texana
  4" cal, container grown.
- (G) Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- (H) Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- (I) Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- (J) Pond Cypress
  Taxodium ascendens
  4" cal, container grown,
- (K) Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- (L) Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- (M) River Birch
  Betula nigra
  12-14' ht,, 3-5 canes each, B&B.
- (AA) NOT USED.
- (BB) Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- (CC) Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- (CC-2) Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- (DD) Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- (EE) Weeping Love Grass
  Eragrostis curvula
- (FF) Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- (GG) Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- (HH) Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- (II) Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- (JJ) Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- (KK) Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- (LL) Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- (MM) Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- (NN) Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

SOUTHERN PARKING AREA AND DRIVE PLANTING PLAN - TREES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-02

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PLANT QUANTITIES

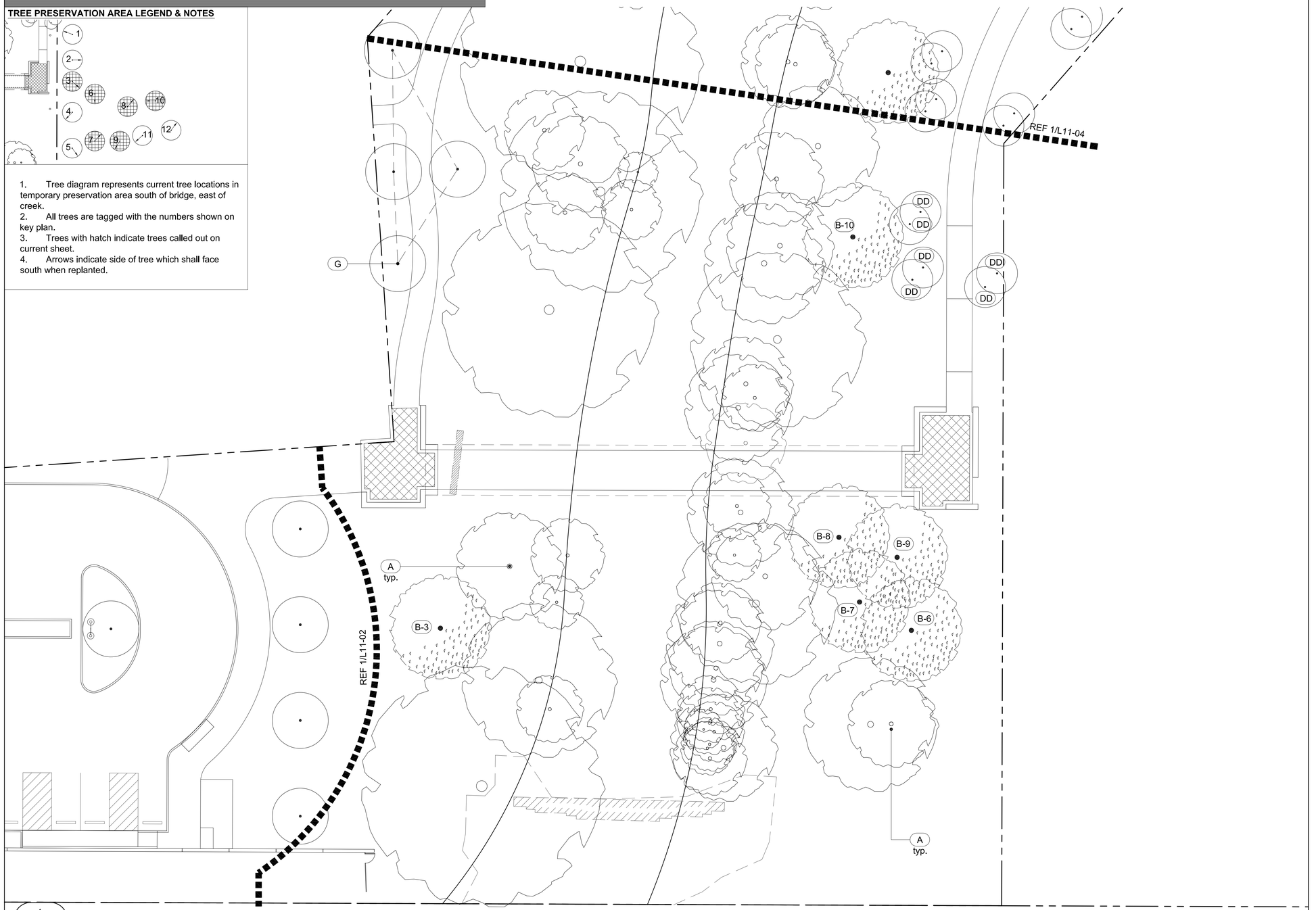
(G) (4) Shumard Oak
Quercus shumardii
4" cal, B&B.

(DD) (6) Oklahoma Redbud
Cercis canadensis 'Oklahoma'
3"-3 ½" cal, 8' ht, B&B.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.

TREE PRESERVATION AREA LEGEND & NOTES

1. Tree diagram represents current tree locations in temporary preservation area south of bridge, east of creek.
2. All trees are tagged with the numbers shown on key plan.
3. Trees with hatch indicate trees called out on current sheet.
4. Arrows indicate side of tree which shall face south when replanted.



1
L11-03
Southern Park Area - A, Planting Plan - Trees

PLANTING LEGEND

- (A) Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- (B) Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.
- (C) Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- (C1) Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- (D) NOT USED.
- (E) NOT USED.
- (F) Red Oak
  Quercus texana
  4" cal, container grown.
- (G) Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- (H) Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- (I) Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- (J) Pond Cypress
  Taxodium ascendens
  4" cal, container grown,
- (K) Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- (L) Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- (M) River Birch
  Betula nigra
  12-14' ht,, 3-5 canes each, B&B.
- (AA) NOT USED.
- (BB) Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- (CC) Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- (CC-2) Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- (DD) Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- (EE) Weeping Love Grass
  Eragrostis curvula
- (FF) Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- (GG) Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- (HH) Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- (II) Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- (JJ) Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- (KK) Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- (LL) Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- (MM) Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- (NN) Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

SOUTHERN PARK AREA -A PLANTING PLAN - TREES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-03

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

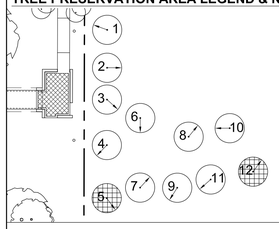
PLANT QUANTITIES

(G) (1) Shumard Oak
Quercus shumardii
4" cal, B&B.

(DD) (20) Oklahoma Redbud
Cercis canadensis 'Oklahoma'
3"-3 ½" cal, 8' ht, B&B.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.

TREE PRESERVATION AREA LEGEND & NOTES



1. Tree diagram represents current tree locations in temporary preservation area south of bridge, east of creek.
2. All trees are tagged with the numbers shown on key plan.
3. Trees with hatch indicate trees called out on current sheet.
4. Arrows indicate side of tree which shall face south when replanted.



0' 8' 16' 32'

1
L11-04
Southern Park Area - B, Planting Plan - Trees

PLANTING LEGEND

- (A) Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- (B) Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.
- (C) Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- (C1) Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- (D) NOT USED.
- (E) NOT USED.
- (F) Red Oak
  Quercus texana
  4" cal, container grown.
- (G) Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- (H) Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- (I) Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- (J) Pond Cypress
  Taxodium ascendens
  4" cal, container grown.
- (K) Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- (L) Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- (M) River Birch
  Betula nigra
  12-14' ht., 3-5 canes each, B&B.
- (AA) NOT USED.
- (BB) Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- (CC) Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- (CC-2) Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- (DD) Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- (EE) Weeping Love Grass
  Eragrostis curvula
- (FF) Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- (GG) Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- (HH) Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- (II) Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- (JJ) Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- (KK) Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- (LL) Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- (MM) Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- (NN) Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

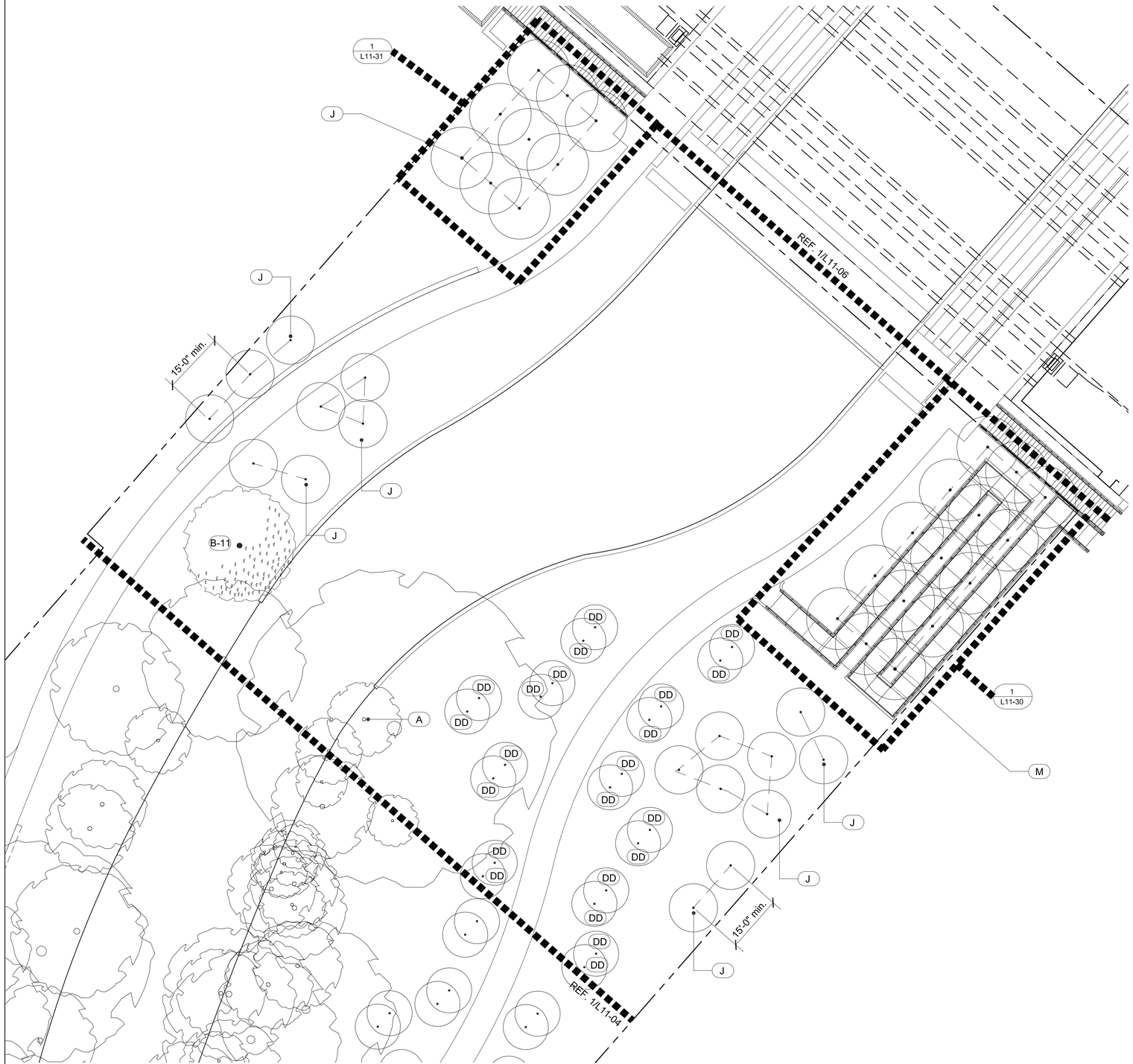
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

SOUTHERN PARK AREA -B PLANTING PLAN - TREES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-04

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



1
L11-05
Southern Park Area - C, Planting Plan - Trees

0' 8' 16' 32'

PLANT QUANTITIES

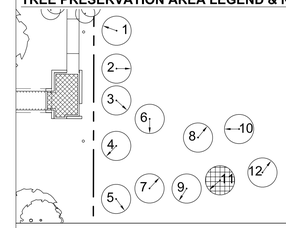
(J) (26) Pond Cypress
Taxodium ascendens
4" caliper, container matched

(M) (15) River Birch
Betula nigra
12-14' ht., 3-5 canes, B&B.

(DD) (22) Oklahoma Redbud
Cercis canadensis 'Oklahoma'
3"-3 ½" cal, 8' ht, B&B.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.

TREE PRESERVATION AREA LEGEND & NOTES



1. Tree diagram represents current tree locations in temporary preservation area south of bridge, east of creek.
2. All trees are tagged with the numbers shown on key plan.
3. Trees with hatch indicate trees called out on current sheet.
4. Arrows indicate side of tree which shall face south when replanted.

PLANTING LEGEND

(A) Existing Tree to remain
Reference specifications for existing tree protection and treatment.

(B) Preserved Live Oak
Quercus virginiana
On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.

(C) Live Oak
Quercus virginiana
4" cal, single trunk, container grown.

(C1) Live Oak, 'High Rise'
Quercus virginiana, 'QVTIA'
4" cal, single trunk, container grown.

(D) NOT USED.

(E) NOT USED.

(F) Red Oak
Quercus texana
4" cal, container grown.

(G) Shumard Oak
Quercus shumardii
4" cal, container grown.

(H) Chinkapin Oak
Quercus muhlenbergii
4" cal, container grown.

(I) Bald Cypress
Taxodium distichum
4" cal, container grown.

(J) Pond Cypress
Taxodium ascendens
4" cal, container grown,

(K) Texas Ash
Fraxinus texensis
4" cal, container grown.

(L) Lacebark Elm
Ulmus parvifolia
4" caliper, container grown.

(M) River Birch
Betula nigra
12-14' ht., 3-5 canes each, B&B.

(AA) NOT USED.

(BB) Savannah Holly
Ilex opaca x attenuata 'Savannah'
4" cal, single trunk, 12' ht, tree form, container grown.

(CC) Natchez Crape Myrtle
Lagerstroemia indica 'Natchez'
12'-14' ht, multi trunk, 3-5 canes, grown for height.

(CC-2) Natchez Crape Myrtle
Lagerstroemia indica 'Natchez'
10'-12' ht, multi trunk, 3-5 canes, grown for height.

(DD) Oklahoma Redbud
Cercis canadensis 'Oklahoma'
3"-3 ½" cal, 8' ht, container grown

(EE) Weeping Love Grass
Eragrostis curvula

(FF) Vitex
Vitex agnus-castus
65 gal, 10' ht, container, grown for height.

(GG) Asian Jasmine
Trachelospermum asiaticum
1 gal, plant 18" o.c.

(HH) Horsetail Reed
Equisetum hyemale
1 gal, plant 18" o.c.

(II) Grass Mix for Hydromulch
Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.

(JJ) Midiron Bermuda
Cynodon dactylon 'Midiron'
sod, pinned on slopes greater than 6:1.

(KK) Harbor Dwarf Nandina
Nandina domestica 'Harbor Dwarf'
15 gal., 3' ht., 36" o.c.

(LL) Dwarf Chinese Holly
Ilex cornuta 'Rotunda'
15 gal., 3' ht., 36" o.c.

(MM) Creeping Fig
Ficus Pumila
1 gal., staggered 18"-24" o.c.

(NN) Mondo Grass
Ophiopogon japonicus
4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison. *TOWN OF ADDISON*
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

SOUTHERN PARK AREA -C PLANTING PLAN - TREES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-05

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

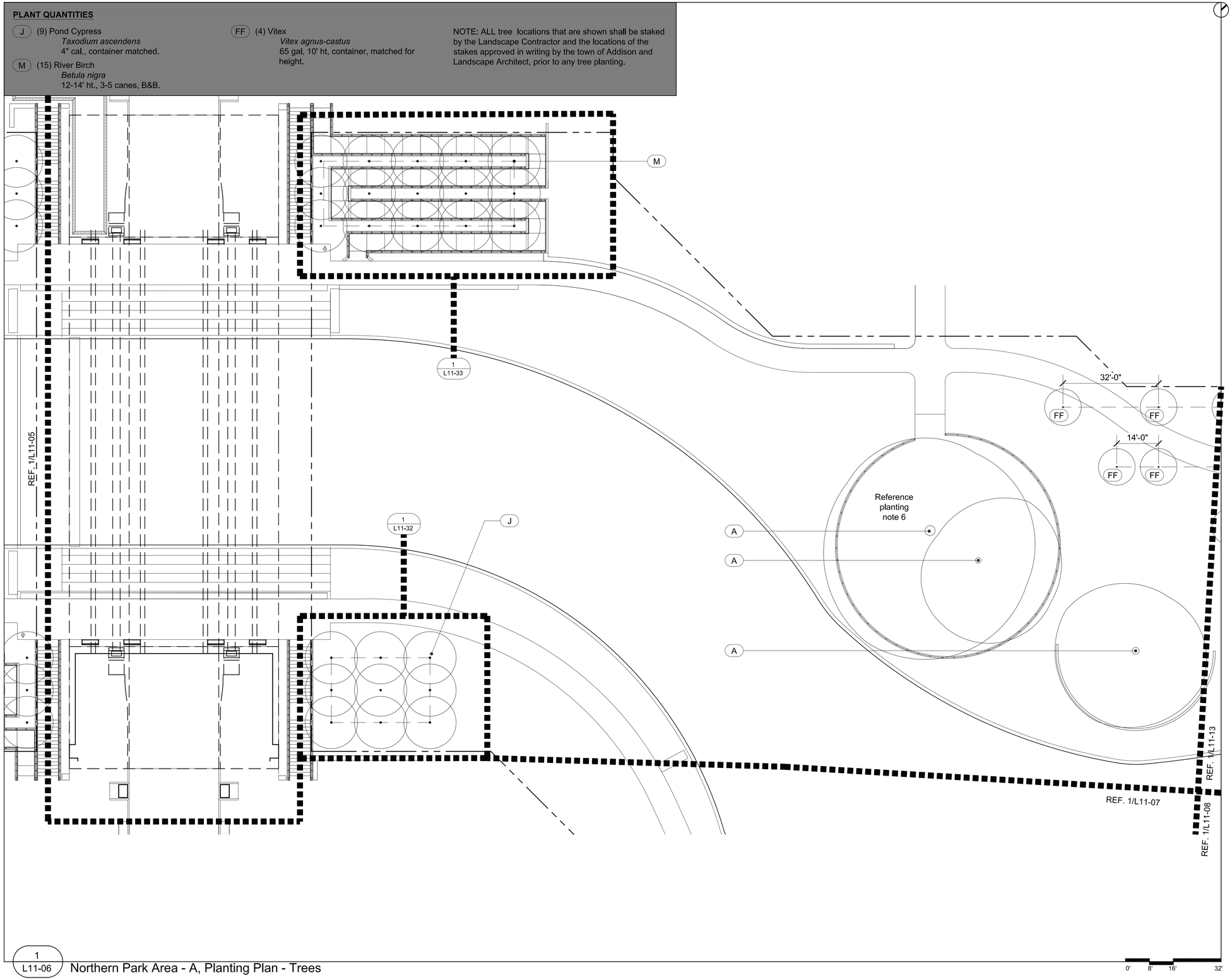
PLANT QUANTITIES

(J) (9) Pond Cypress
Taxodium ascendens
4" cal., container matched.

(M) (15) River Birch
Betula nigra
12-14' ht., 3-5 canes, B&B.

(FF) (4) Vitex
Vitex agnus-castus
65 gal, 10' ht, container, matched for height.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



1
L11-06
Northern Park Area - A, Planting Plan - Trees

PLANTING LEGEND

- (A) Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- (B) Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.
- (C) Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- (C1) Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- (D) NOT USED.
- (E) NOT USED.
- (F) Red Oak
  Quercus texana
  4" cal, container grown.
- (G) Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- (H) Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- (I) Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- (J) Pond Cypress
  Taxodium ascendens
  4" cal, container grown,
- (K) Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- (L) Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- (M) River Birch
  Betula nigra
  12-14' ht,, 3-5 canes each, B&B.
- (AA) NOT USED.
- (BB) Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- (CC) Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- (CC-2) Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- (DD) Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- (EE) Weeping Love Grass
  Eragrostis curvula
- (FF) Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- (GG) Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- (HH) Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- (II) Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- (JJ) Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- (KK) Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- (LL) Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- (MM) Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- (NN) Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

NORTHERN PARK AREA - A PLANTING PLAN - TREES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009	PW # 2009-04	L11-06

BID

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PLANT QUANTITIES

(F) (5) Red Oak
Quercus texana
4" cal, B&B.

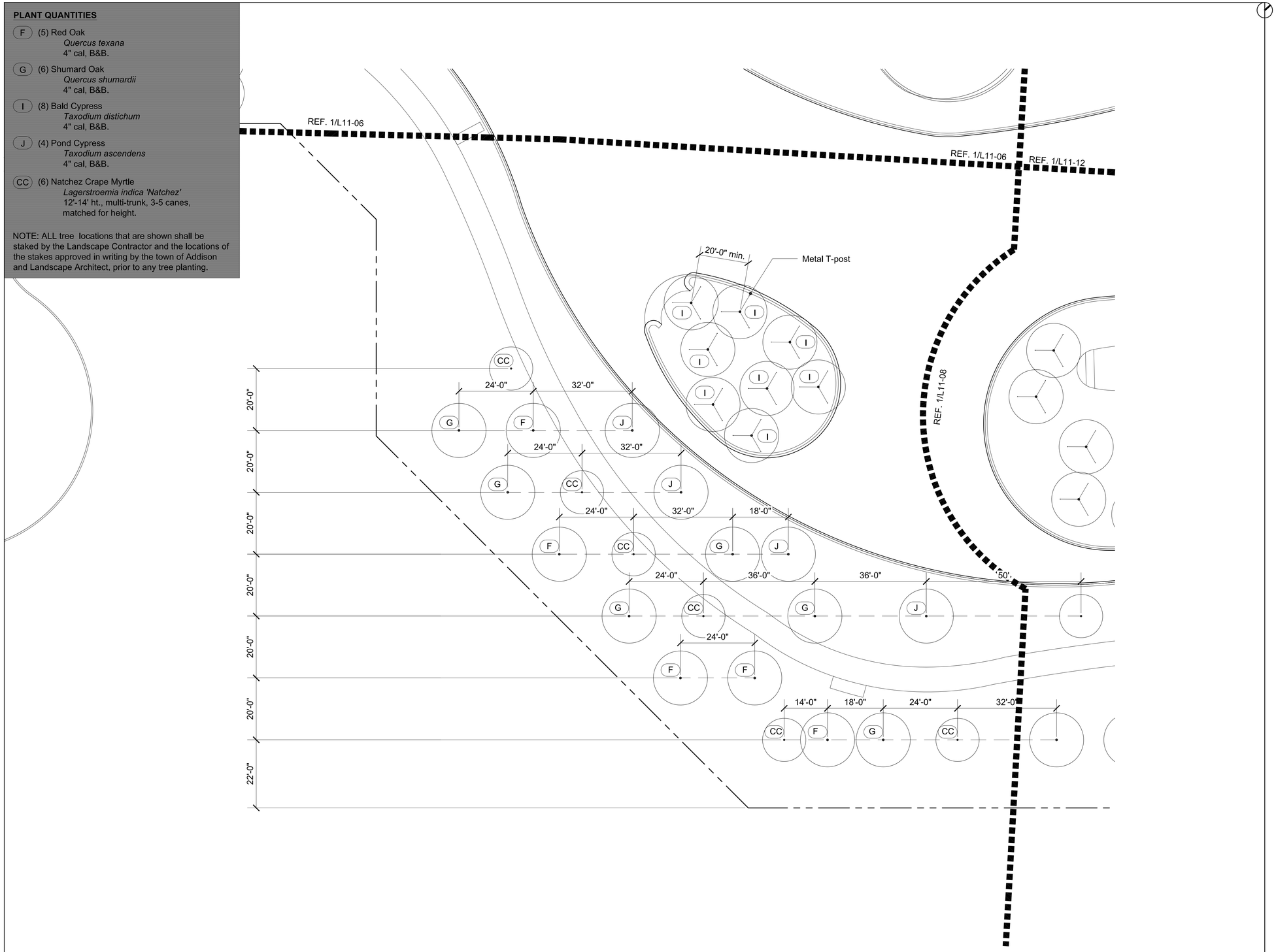
(G) (6) Shumard Oak
Quercus shumardii
4" cal, B&B.

(I) (8) Bald Cypress
Taxodium distichum
4" cal, B&B.

(J) (4) Pond Cypress
Taxodium ascendens
4" cal, B&B.

(CC) (6) Natchez Crape Myrtle
Lagerstroemia indica 'Natchez'
12'-14' ht., multi-trunk, 3-5 canes, matched for height.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



1
L11-07
Northern Park Area - B, Planting Plan - Trees

0' 8' 16' 32'

PLANTING LEGEND

- (A) Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- (B) Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.
- (C) Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- (C1) Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- (D) NOT USED.
- (E) NOT USED.
- (F) Red Oak
  Quercus texana
  4" cal, container grown.
- (G) Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- (H) Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- (I) Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- (J) Pond Cypress
  Taxodium ascendens
  4" cal, container grown,
- (K) Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- (L) Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- (M) River Birch
  Betula nigra
  12-14' ht,, 3-5 canes each, B&B.
- (AA) NOT USED.
- (BB) Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- (CC) Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- (CC-2) Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- (DD) Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- (EE) Weeping Love Grass
  Eragrostis curvula
- (FF) Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- (GG) Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- (HH) Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- (II) Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- (JJ) Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- (KK) Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- (LL) Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- (MM) Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- (NN) Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

NORTHERN PARK AREA - B
PLANTING PLAN - TREES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-07

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PLANT QUANTITIES

(F) (9) Red Oak
Quercus texana
4" cal, B&B.

(G) (8) Shumard Oak
Quercus shumardii
4" cal, B&B.

(I) (12) Bald Cypress
Taxodium distichum
4" cal., B&B

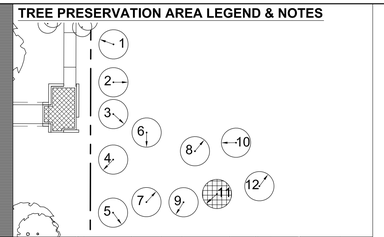
(J) (4) Pond Cypress
Taxodium ascendens
4" cal., B&B

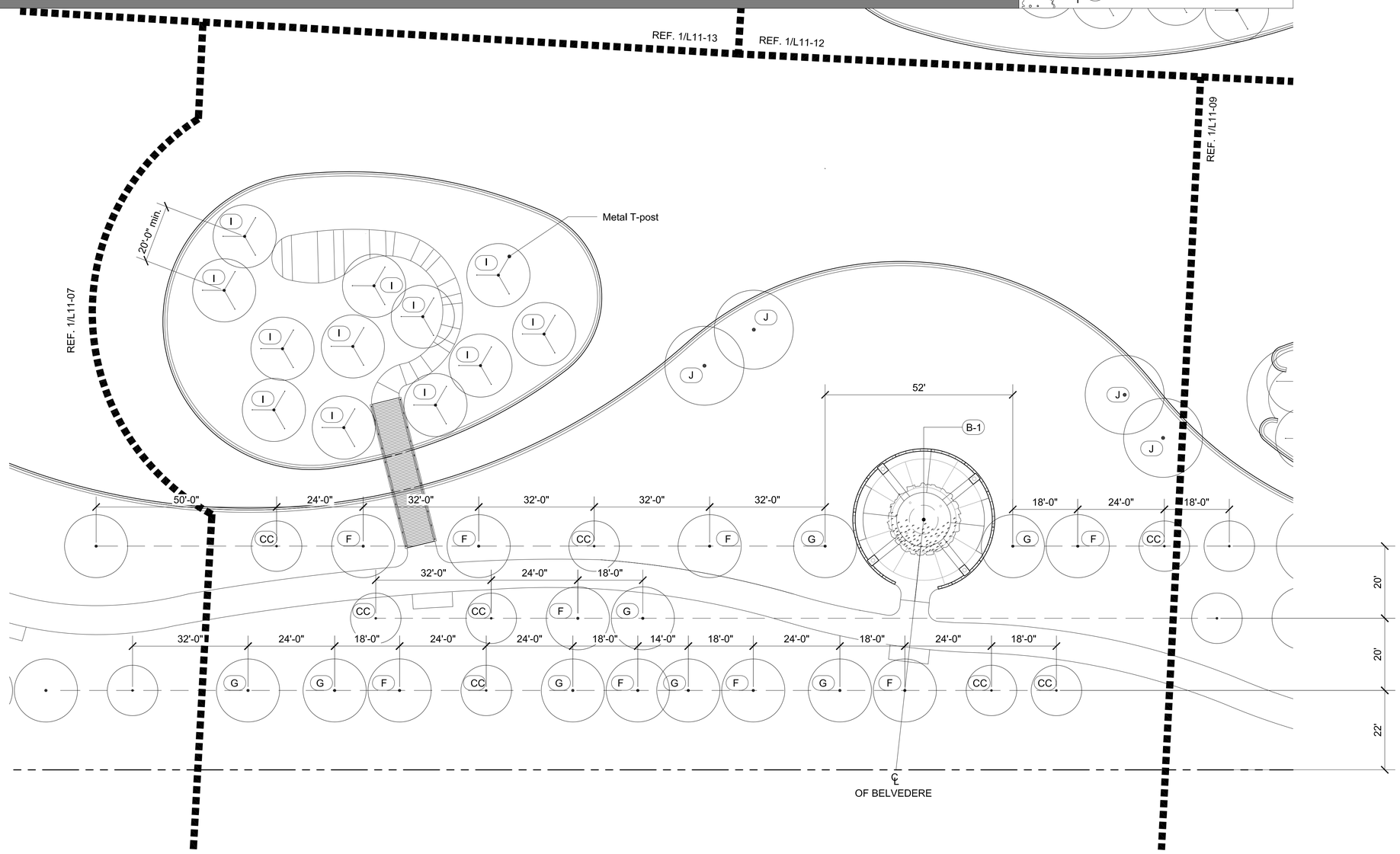
(CC) (8) Natchez Crape Myrtle
Lagerstroemia indica 'Natchez'
12'-14' ht., multi-trunk, 3-5 canes, matched for height.

(B-1) (1) Preserved Live Oak
Quercus virginiana
On-site, field dug specimen, requires 168" tree spade to move, LA to select and place in Belvedere. Ref. to "Tree Preservation Area Legend & Notes" inset on sheet for number suffix.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting; staking shown in relation to flow of creek (Ref. L1-21).

TREE PRESERVATION AREA LEGEND & NOTES





1
L11-08
Northern Park Area - C, Planting Plan - Trees

0' 8' 16' 32'

PLANTING LEGEND

(A) Existing Tree to remain
Reference specifications for existing tree protection and treatment.

(B) Preserved Live Oak
Quercus virginiana
On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.

(C) Live Oak
Quercus virginiana
4" cal, single trunk, container grown.

(C1) Live Oak, 'High Rise'
Quercus virginiana, 'QVTIA'
4" cal, single trunk, container grown.

(D) NOT USED.

(E) NOT USED.

(F) Red Oak
Quercus texana
4" cal, container grown.

(G) Shumard Oak
Quercus shumardii
4" cal, container grown.

(H) Chinkapin Oak
Quercus muhlenbergii
4" cal, container grown.

(I) Bald Cypress
Taxodium distichum
4" cal, container grown.

(J) Pond Cypress
Taxodium ascendens
4" cal, container grown,

(K) Texas Ash
Fraxinus texensis
4" cal, container grown.

(L) Lacebark Elm
Ulmus parvifolia
4" caliper, container grown.

(M) River Birch
Betula nigra
12-14' ht., 3-5 canes each, B&B.

(AA) NOT USED.

(BB) Savannah Holly
Ilex opaca x attenuata 'Savannah'
4" cal, single trunk, 12' ht, tree form, container grown.

(CC) Natchez Crape Myrtle
Lagerstroemia indica 'Natchez'
12'-14' ht, multi trunk, 3-5 canes, grown for height.

(CC-2) Natchez Crape Myrtle
Lagerstroemia indica 'Natchez'
10'-12' ht, multi trunk, 3-5 canes, grown for height.

(DD) Oklahoma Redbud
Cercis canadensis 'Oklahoma'
3"-3 ½" cal, 8' ht, container grown

(EE) Weeping Love Grass
Eragrostis curvula

(FF) Vitex
Vitex agnus-castus
65 gal, 10' ht, container, grown for height.

(GG) Asian Jasmine
Trachelospermum asiaticum
1 gal, plant 18" o.c.

(HH) Horsetail Reed
Equisetum hyemale
1 gal, plant 18" o.c.

(II) Grass Mix for Hydromulch
Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.

(JJ) Midiron Bermuda
Cynodon dactylon 'Midiron'
sod, pinned on slopes greater than 6:1.

(KK) Harbor Dwarf Nandina
Nandina domestica 'Harbor Dwarf'
15 gal., 3' ht., 36" o.c.

(LL) Dwarf Chinese Holly
Ilex cornuta 'Rotunda'
15 gal., 3' ht., 36" o.c.

(MM) Creeping Fig
Ficus Pumila
1 gal., staggered 18"-24" o.c.

(NN) Mondo Grass
Ophiopogon japonicus
4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

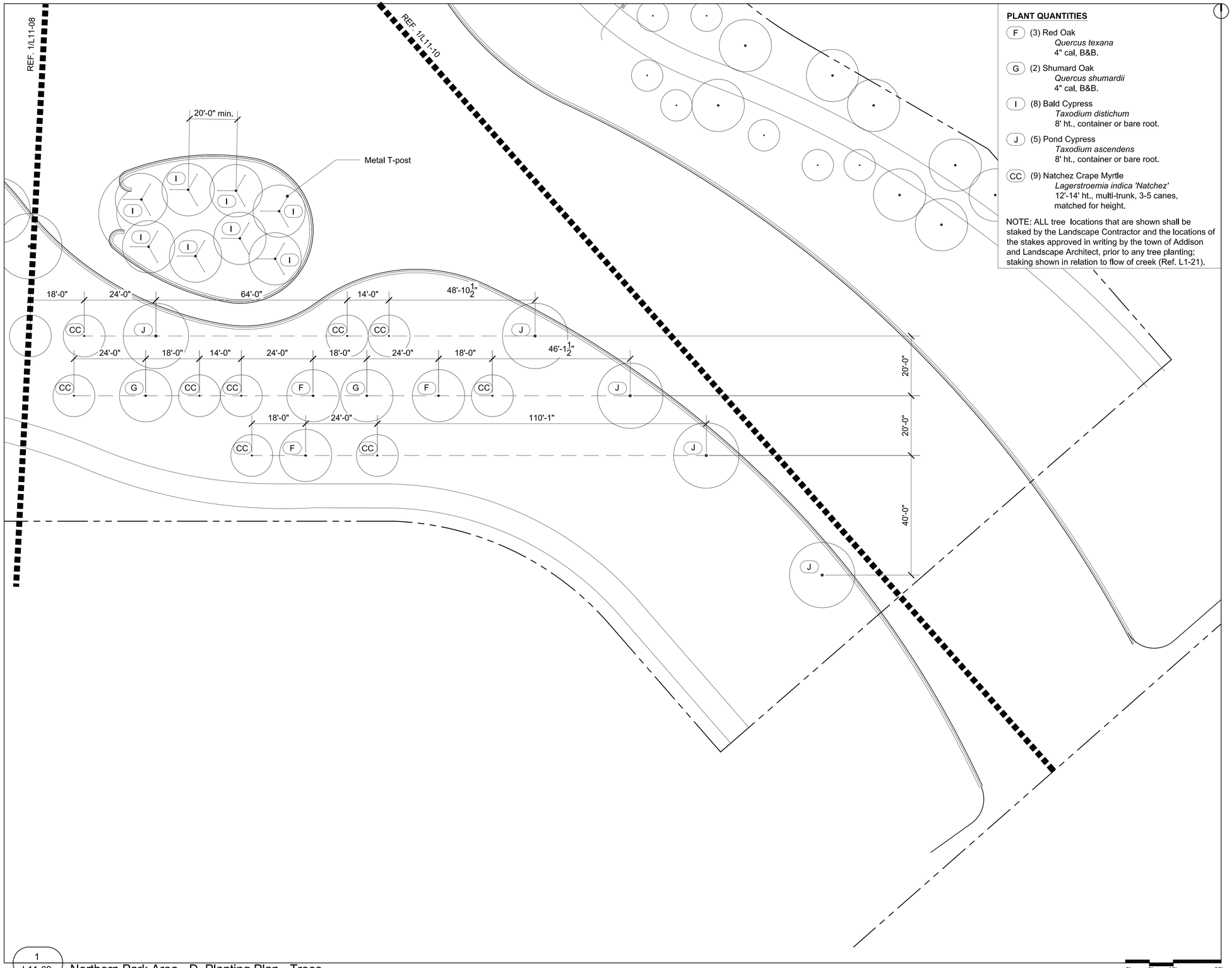
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

NORTHERN PARK AREA - C
PLANTING PLAN - TREES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-08

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



PLANT QUANTITIES

- (F) (3) Red Oak
  Quercus texana
  4" cal, B&B.
- (G) (2) Shumard Oak
  Quercus shumardii
  4" cal, B&B.
- (I) (8) Bald Cypress
  Taxodium distichum
  8' ht., container or bare root.
- (J) (5) Pond Cypress
  Taxodium ascendens
  8' ht., container or bare root.
- (CC) (9) Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht., multi-trunk, 3-5 canes, matched for height.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting; staking shown in relation to flow of creek (Ref. L1-21).

PLANTING LEGEND

- (A) Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- (B) Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.
- (C) Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- (C1) Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- (D) NOT USED.
- (E) NOT USED.
- (F) Red Oak
  Quercus texana
  4" cal, container grown.
- (G) Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- (H) Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- (I) Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- (J) Pond Cypress
  Taxodium ascendens
  4" cal, container grown,
- (K) Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- (L) Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- (M) River Birch
  Betula nigra
  12-14' ht., 3-5 canes each, B&B.
- (AA) NOT USED.
- (BB) Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- (CC) Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- (CC-2) Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- (DD) Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- (EE) Weeping Love Grass
  Eragrostis curvula
- (FF) Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- (GG) Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- (HH) Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- (II) Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- (JJ) Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- (KK) Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- (LL) Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- (MM) Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- (NN) Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

NORTHERN PARK AREA - D
PLANTING PLAN - TREES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-09

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

1
L11-09
Northern Park Area - D, Planting Plan - Trees

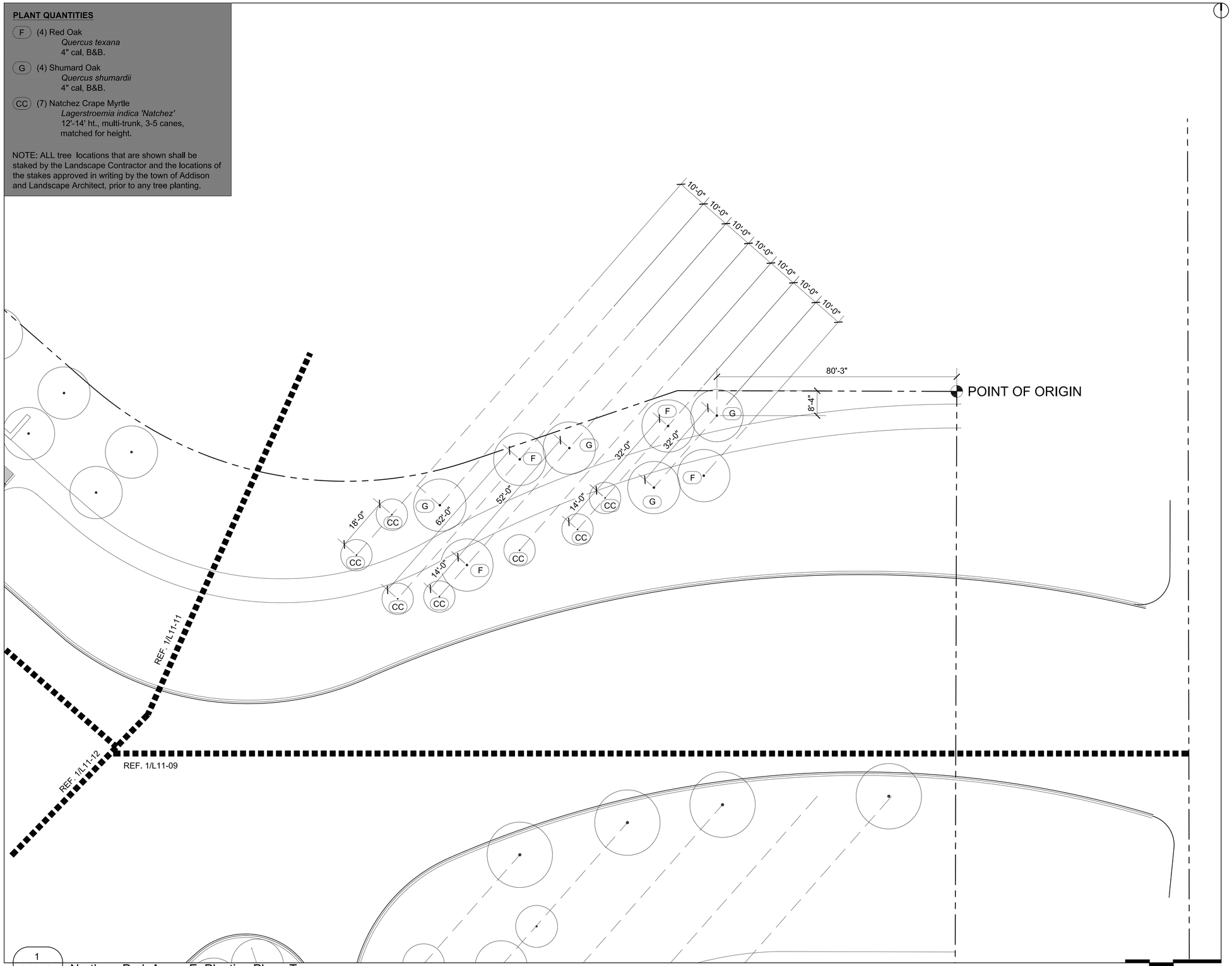
PLANT QUANTITIES

(F) (4) Red Oak
Quercus texana
4" cal, B&B.

(G) (4) Shumard Oak
Quercus shumardii
4" cal, B&B.

(CC) (7) Natchez Crape Myrtle
Lagerstroemia indica 'Natchez'
12'-14' ht., multi-trunk, 3-5 canes, matched for height.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



1
L11-10
Northern Park Area - E, Planting Plan - Trees

PLANTING LEGEND

(A) Existing Tree to remain
Reference specifications for existing tree protection and treatment.

(B) Preserved Live Oak
Quercus virginiana
On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.

(C) Live Oak
Quercus virginiana
4" cal, single trunk, container grown.

(C1) Live Oak, 'High Rise'
Quercus virginiana, 'QVTIA'
4" cal, single trunk, container grown.

(D) NOT USED.

(E) NOT USED.

(F) Red Oak
Quercus texana
4" cal, container grown.

(G) Shumard Oak
Quercus shumardii
4" cal, container grown.

(H) Chinkapin Oak
Quercus muhlenbergii
4" cal, container grown.

(I) Bald Cypress
Taxodium distichum
4" cal, container grown.

(J) Pond Cypress
Taxodium ascendens
4" cal, container grown,

(K) Texas Ash
Fraxinus texensis
4" cal, container grown.

(L) Lacebark Elm
Ulmus parvifolia
4" caliper, container grown.

(M) River Birch
Betula nigra
12-14' ht., 3-5 canes each, B&B.

(AA) NOT USED.

(BB) Savannah Holly
Ilex opaca x attenuata 'Savannah'
4" cal, single trunk, 12' ht, tree form, container grown.

(CC) Natchez Crape Myrtle
Lagerstroemia indica 'Natchez'
12'-14' ht, multi trunk, 3-5 canes, grown for height.

(CC-2) Natchez Crape Myrtle
Lagerstroemia indica 'Natchez'
10'-12' ht, multi trunk, 3-5 canes, grown for height.

(DD) Oklahoma Redbud
Cercis canadensis 'Oklahoma'
3"-3 ½" cal, 8' ht, container grown

(EE) Weeping Love Grass
Eragrostis curvula

(FF) Vitex
Vitex agnus-castus
65 gal, 10' ht, container, grown for height.

(GG) Asian Jasmine
Trachelospermum asiaticum
1 gal, plant 18" o.c.

(HH) Horsetail Reed
Equisetum hyemale
1 gal, plant 18" o.c.

(II) Grass Mix for Hydromulch
Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.

(JJ) Midiron Bermuda
Cynodon dactylon 'Midiron'
sod, pinned on slopes greater than 6:1.

(KK) Harbor Dwarf Nandina
Nandina domestica 'Harbor Dwarf'
15 gal., 3' ht., 36" o.c.

(LL) Dwarf Chinese Holly
Ilex cornuta 'Rotunda'
15 gal., 3' ht., 36" o.c.

(MM) Creeping Fig
Ficus Pumila
1 gal., staggered 18"-24" o.c.

(NN) Mondo Grass
Ophiopogon japonicus
4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT · KEVIN W. SLOAN · 2296 · STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

NORTHERN PARK AREA -E PLANTING PLAN - TREES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009	PW # 2009-04	L11-10

BID

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

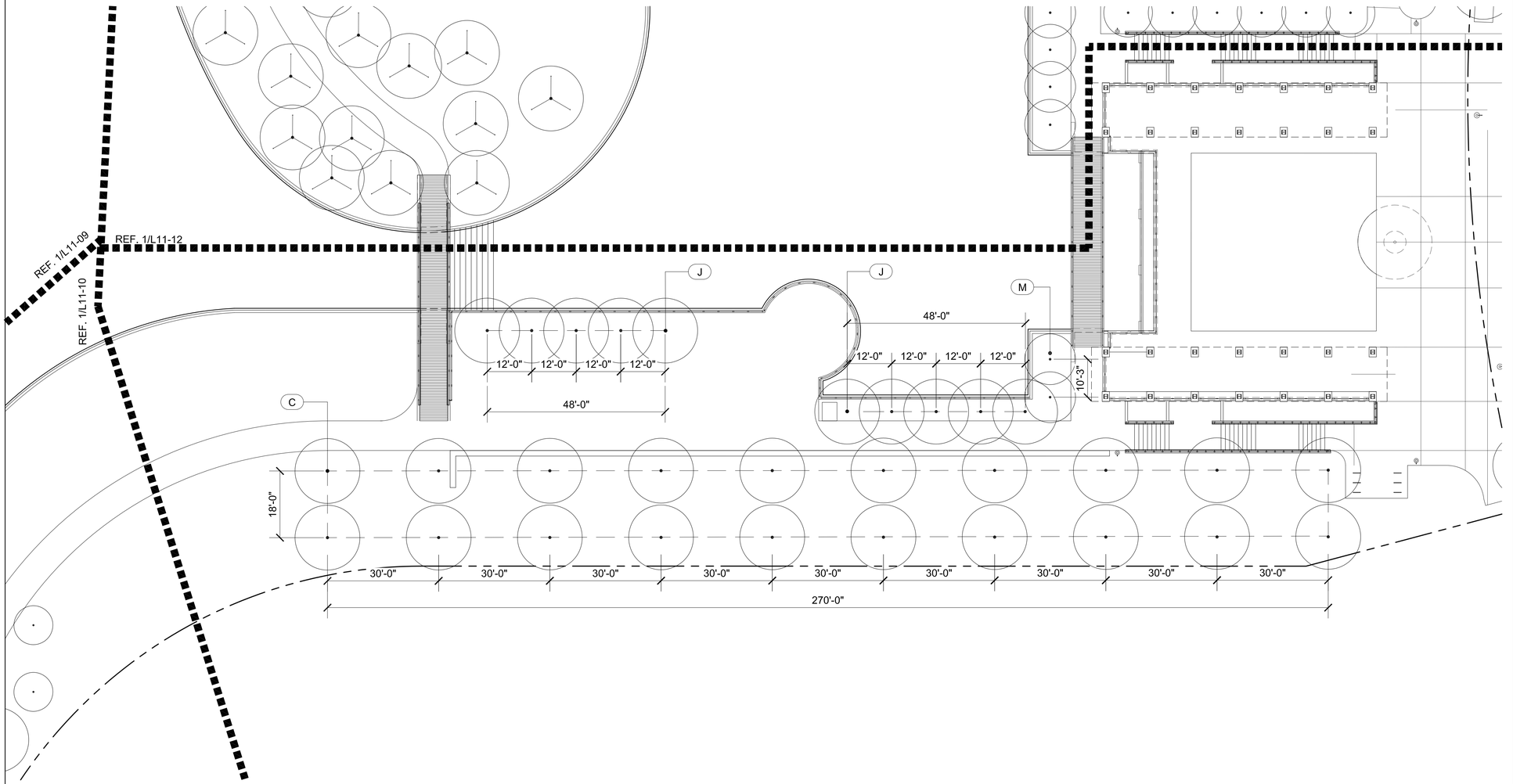
PLANT QUANTITIES

(C) (20) Live Oak
Quercus virginiana
4" cal, single trunk, container matched.

(J) (10) Pond Cypress
Taxodium ascendens
4" cal, single trunk, container matched.

(M) (2) River Birch
Betula nigra
4" cal, container matched.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



1
L11-11
Northern Park Area - F, Planting Plan - Trees

0' 8' 16' 32'

PLANTING LEGEND

(A) Existing Tree to remain
Reference specifications for existing tree protection and treatment.

(B) Preserved Live Oak
Quercus virginiana
On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.

(C) Live Oak
Quercus virginiana
4" cal, single trunk, container grown.

(C1) Live Oak, 'High Rise'
Quercus virginiana, 'QVTIA'
4" cal, single trunk, container grown.

(D) NOT USED.

(E) NOT USED.

(F) Red Oak
Quercus texana
4" cal, container grown.

(G) Shumard Oak
Quercus shumardii
4" cal, container grown.

(H) Chinkapin Oak
Quercus muhlenbergii
4" cal, container grown.

(I) Bald Cypress
Taxodium distichum
4" cal, container grown.

(J) Pond Cypress
Taxodium ascendens
4" cal, container grown.

(K) Texas Ash
Fraxinus texensis
4" cal, container grown.

(L) Lacebark Elm
Ulmus parvifolia
4" caliper, container grown.

(M) River Birch
Betula nigra
12-14' ht,, 3-5 canes each, B&B.

(AA) NOT USED.

(BB) Savannah Holly
Ilex opaca x attenuata 'Savannah'
4" cal, single trunk, 12' ht, tree form, container grown.

(CC) Natchez Crape Myrtle
Lagerstroemia indica 'Natchez'
12'-14' ht, multi trunk, 3-5 canes, grown for height.

(CC-2) Natchez Crape Myrtle
Lagerstroemia indica 'Natchez'
10'-12' ht, multi trunk, 3-5 canes, grown for height.

(DD) Oklahoma Redbud
Cercis canadensis 'Oklahoma'
3"-3 ½" cal, 8' ht, container grown

(EE) Weeping Love Grass
Eragrostis curvula

(FF) Vitex
Vitex agnus-castus
65 gal, 10' ht, container, grown for height.

(GG) Asian Jasmine
Trachelospermum asiaticum
1 gal, plant 18" o.c.

(HH) Horsetail Reed
Equisetum hyemale
1 gal, plant 18" o.c.

(II) Grass Mix for Hydromulch
Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.

(JJ) Midiron Bermuda
Cynodon dactylon 'Midiron'
sod, pinned on slopes greater than 6:1.

(KK) Harbor Dwarf Nandina
Nandina domestica 'Harbor Dwarf'
15 gal., 3' ht., 36" o.c.

(LL) Dwarf Chinese Holly
Ilex cornuta 'Rotunda'
15 gal., 3' ht., 36" o.c.

(MM) Creeping Fig
Ficus Pumila
1 gal., staggered 18"-24" o.c.

(NN) Mondo Grass
Ophiopogon japonicus
4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

NORTHERN PARK AREA - F
PLANTING PLAN - TREES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-11

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PLANT QUANTITIES

(C) (6) Live Oak
Quercus virginiana
4" cal., single trunk, container matched.

(F) (7) Red Oak
Quercus falcata
4" cal., container matched.

(I) (33) Bald Cypress
Taxodium distichum
4" cal, B&B.

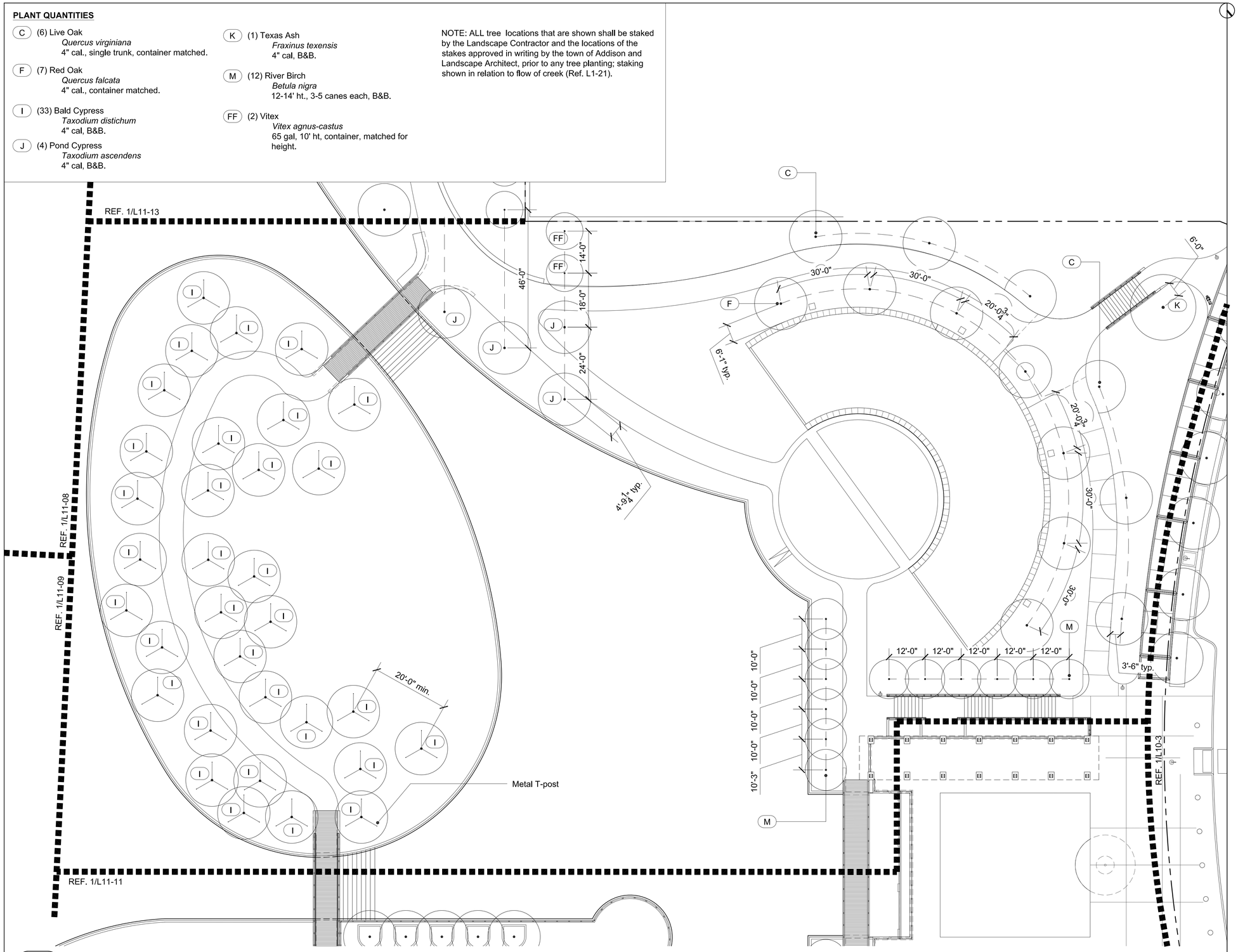
(J) (4) Pond Cypress
Taxodium ascendens
4" cal, B&B.

(K) (1) Texas Ash
Fraxinus texensis
4" cal, B&B.

(M) (12) River Birch
Betula nigra
12-14' ht., 3-5 canes each, B&B.

(FF) (2) Vitex
Vitex agnus-castus
65 gal, 10' ht, container, matched for height.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting; staking shown in relation to flow of creek (Ref. L1-21).



1
L11-12
Northern Park Area - G, Planting Plan - Trees

PLANTING LEGEND

(A) Existing Tree to remain
Reference specifications for existing tree protection and treatment.

(B) Preserved Live Oak
Quercus virginiana
On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.

(C) Live Oak
Quercus virginiana
4" cal, single trunk, container grown.

(C1) Live Oak, 'High Rise'
Quercus virginiana, 'QVTIA'
4" cal, single trunk, container grown.

(D) NOT USED.

(E) NOT USED.

(F) Red Oak
Quercus texana
4" cal, container grown.

(G) Shumard Oak
Quercus shumardii
4" cal, container grown.

(H) Chinkapin Oak
Quercus muhlenbergii
4" cal, container grown.

(I) Bald Cypress
Taxodium distichum
4" cal, container grown.

(J) Pond Cypress
Taxodium ascendens
4" cal, container grown,

(K) Texas Ash
Fraxinus texensis
4" cal, container grown.

(L) Lacebark Elm
Ulmus parvifolia
4" caliper, container grown.

(M) River Birch
Betula nigra
12-14' ht., 3-5 canes each, B&B.

(AA) NOT USED.

(BB) Savannah Holly
Ilex opaca x attenuata 'Savannah'
4" cal, single trunk, 12' ht, tree form, container grown.

(CC) Natchez Crape Myrtle
Lagerstroemia indica 'Natchez'
12'-14' ht, multi trunk, 3-5 canes, grown for height.

(CC-2) Natchez Crape Myrtle
Lagerstroemia indica 'Natchez'
10'-12' ht, multi trunk, 3-5 canes, grown for height.

(DD) Oklahoma Redbud
Cercis canadensis 'Oklahoma'
3"-3 ½" cal, 8' ht, container grown

(EE) Weeping Love Grass
Eragrostis curvula

(FF) Vitex
Vitex agnus-castus
65 gal, 10' ht, container, grown for height.

(GG) Asian Jasmine
Trachelospermum asiaticum
1 gal, plant 18" o.c.

(HH) Horsetail Reed
Equisetum hyemale
1 gal, plant 18" o.c.

(II) Grass Mix for Hydromulch
Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.

(JJ) Midiron Bermuda
Cynodon dactylon 'Midiron'
sod, pinned on slopes greater than 6:1.

(KK) Harbor Dwarf Nandina
Nandina domestica 'Harbor Dwarf'
15 gal., 3' ht., 36" o.c.

(LL) Dwarf Chinese Holly
Ilex cornuta 'Rotunda'
15 gal., 3' ht., 36" o.c.

(MM) Creeping Fig
Ficus Pumila
1 gal., staggered 18"-24" o.c.

(NN) Mondo Grass
Ophiopogon japonicus
4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

NORTHERN PARK AREA - G
PLANTING PLAN - TREES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-12

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

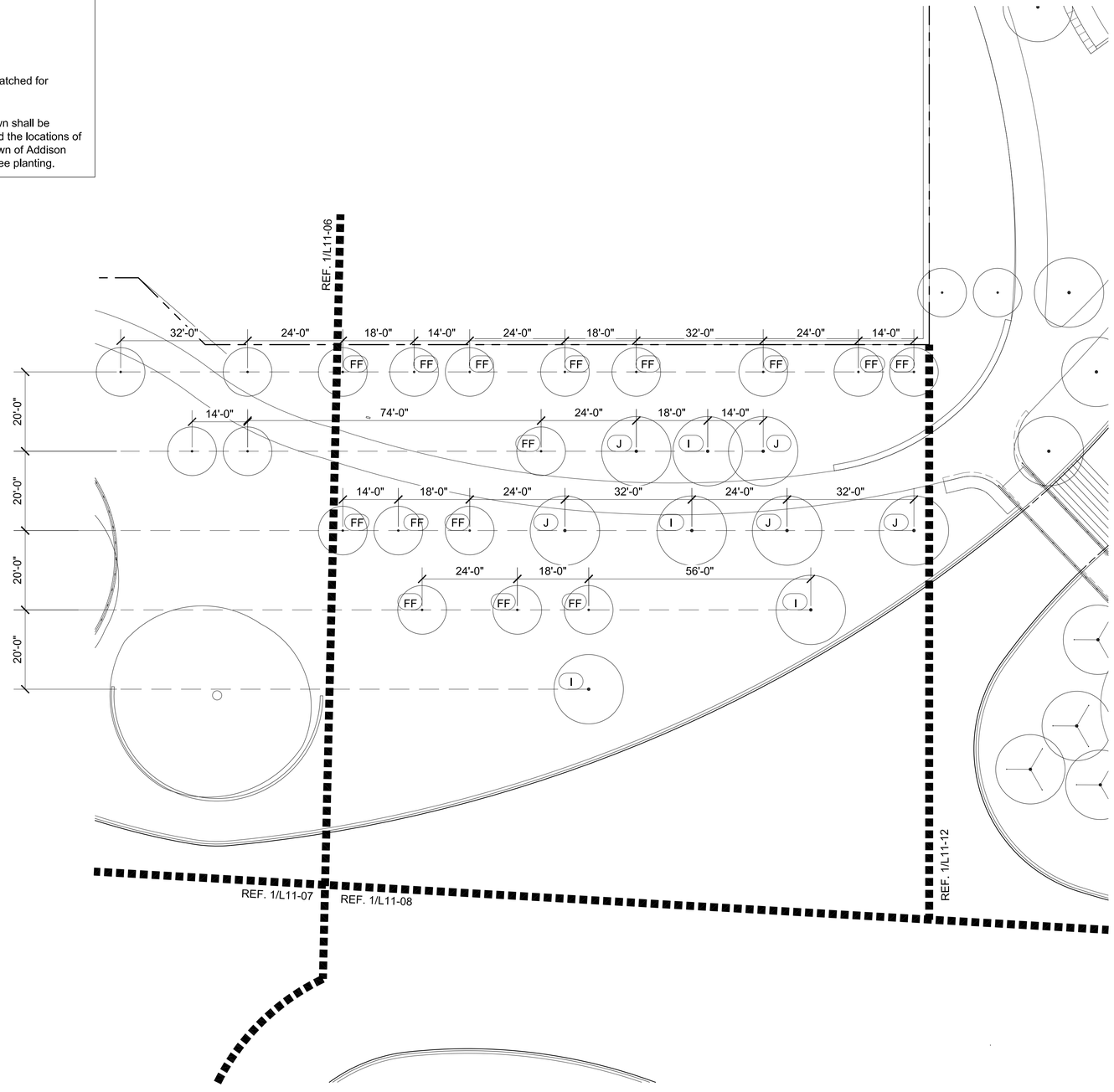
PLANT QUANTITIES

(I) (4) Bald Cypress
Taxodium distichum
4" cal, B&B.

(J) (5) Pond Cypress
Taxodium ascendens
4" cal, B&B.

(FF) (15) Vitex
Vitex agnus-castus
65 gal, 10' ht, container, matched for height.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



1
L11-13
Northern Park Area - H, Planting Plan - Trees

0' 8' 16' 32'

PLANTING LEGEND

(A) Existing Tree to remain
Reference specifications for existing tree protection and treatment.

(B) Preserved Live Oak
Quercus virginiana
On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.

(C) Live Oak
Quercus virginiana
4" cal, single trunk, container grown.

(C1) Live Oak, 'High Rise'
Quercus virginiana, 'QVTIA'
4" cal, single trunk, container grown.

(D) NOT USED.

(E) NOT USED.

(F) Red Oak
Quercus texana
4" cal, container grown.

(G) Shumard Oak
Quercus shumardii
4" cal, container grown.

(H) Chinkapin Oak
Quercus muhlenbergii
4" cal, container grown.

(I) Bald Cypress
Taxodium distichum
4" cal, container grown.

(J) Pond Cypress
Taxodium ascendens
4" cal, container grown.

(K) Texas Ash
Fraxinus texensis
4" cal, container grown.

(L) Lacebark Elm
Ulmus parvifolia
4" caliper, container grown.

(M) River Birch
Betula nigra
12-14' ht., 3-5 canes each, B&B.

(AA) NOT USED.

(BB) Savannah Holly
Ilex opaca x attenuata 'Savannah'
4" cal, single trunk, 12' ht, tree form, container grown.

(CC) Natchez Crape Myrtle
Lagerstroemia indica 'Natchez'
12'-14' ht, multi trunk, 3-5 canes, grown for height.

(CC-2) Natchez Crape Myrtle
Lagerstroemia indica 'Natchez'
10'-12' ht, multi trunk, 3-5 canes, grown for height.

(DD) Oklahoma Redbud
Cercis canadensis 'Oklahoma'
3"-3 ½" cal, 8' ht, container grown

(EE) Weeping Love Grass
Eragrostis curvula

(FF) Vitex
Vitex agnus-castus
65 gal, 10' ht, container, grown for height.

(GG) Asian Jasmine
Trachelospermum asiaticum
1 gal, plant 18" o.c.

(HH) Horsetail Reed
Equisetum hyemale
1 gal, plant 18" o.c.

(II) Grass Mix for Hydromulch
Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.

(JJ) Midiron Bermuda
Cynodon dactylon 'Midiron'
sod, pinned on slopes greater than 6:1.

(KK) Harbor Dwarf Nandina
Nandina domestica 'Harbor Dwarf'
15 gal., 3' ht., 36" o.c.

(LL) Dwarf Chinese Holly
Ilex cornuta 'Rotunda'
15 gal., 3' ht., 36" o.c.

(MM) Creeping Fig
Ficus Pumila
1 gal., staggered 18"-24" o.c.

(NN) Mondo Grass
Ophiopogon japonicus
4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

NORTHERN PARK AREA - H PLANTING PLAN - TREES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

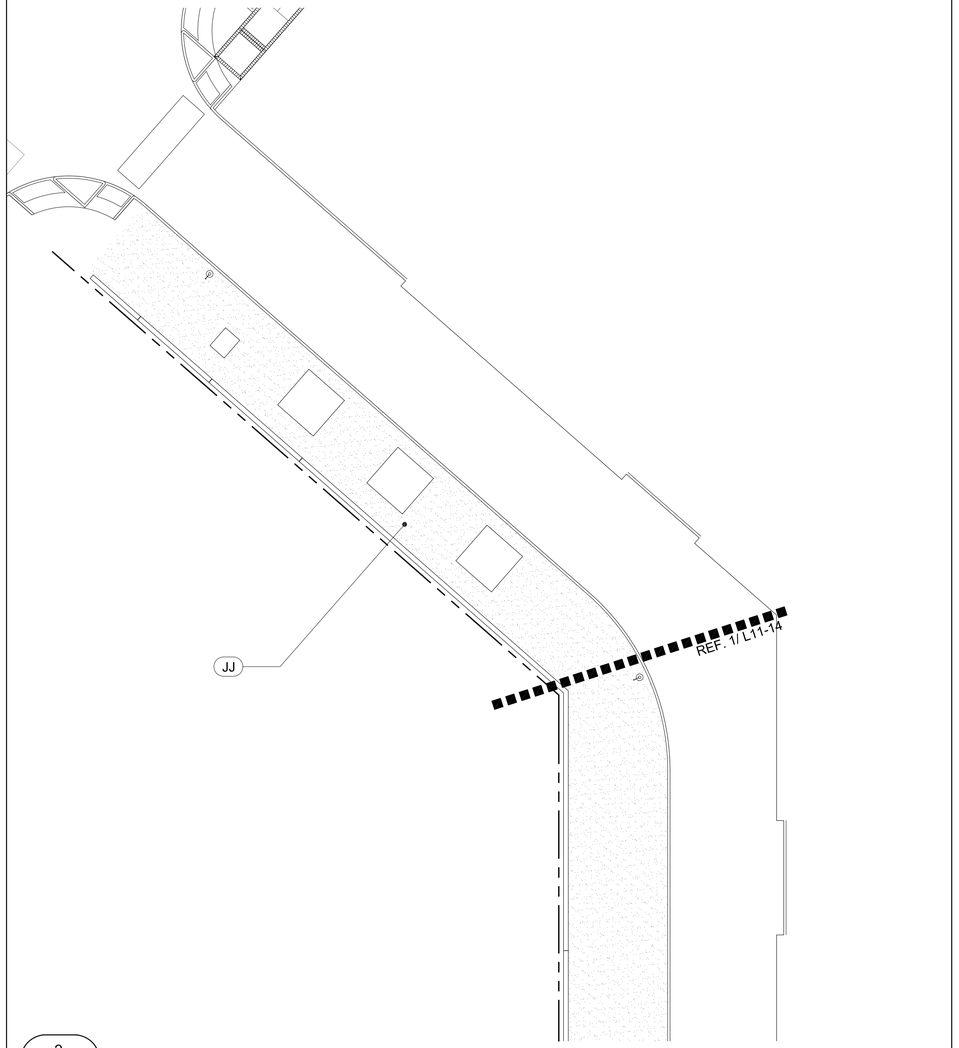
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-13

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PLANT QUANTITIES

JJ (2178 sf.) Midiron Bermuda
Cynodon dactylon 'Midiron'
sod, pinned on slopes greater than 6:1.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.

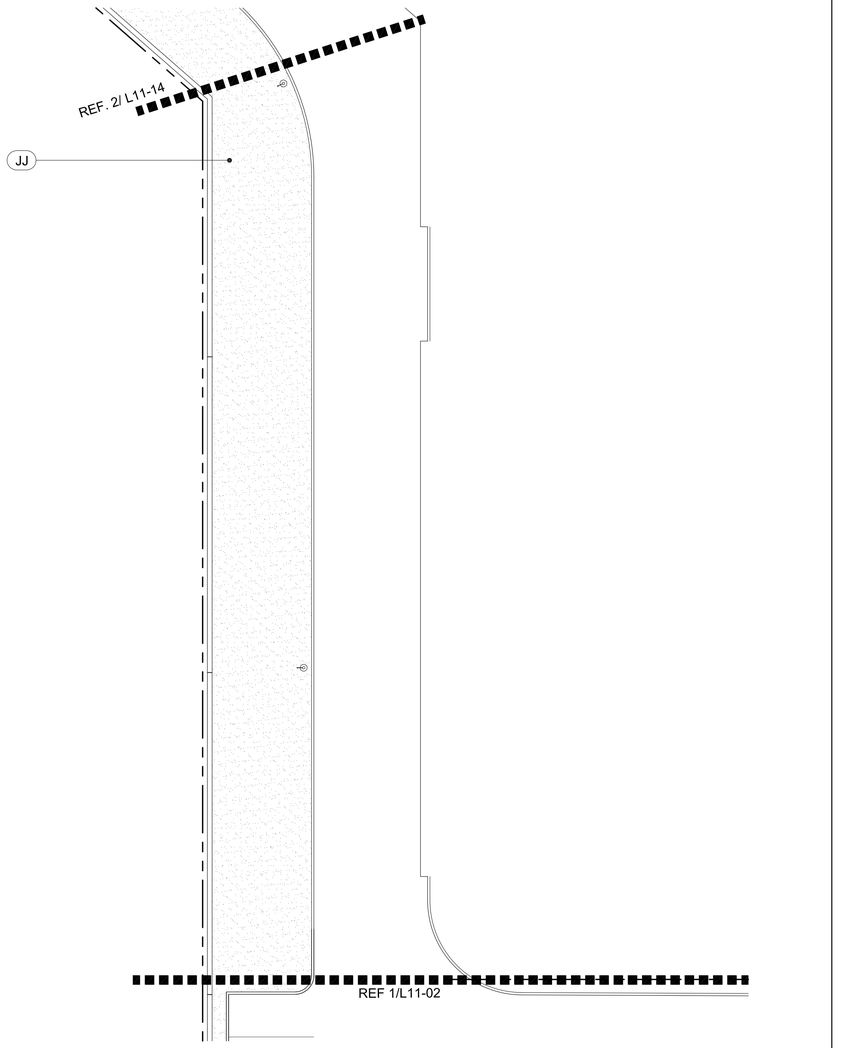


2
L11-14
Southern Parking Area and Drive, Planting Plan - Shrubs, Groundcover & Grasses

PLANT QUANTITIES

JJ (3981 sf.) Midiron Bermuda
Cynodon dactylon 'Midiron'
sod, pinned on slopes greater than 6:1.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



1
L11-14
Southern Parking Area and Drive, Planting Plan - Shrubs, Groundcover & Grasses

PLANTING LEGEND

- A — Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- B — Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.
- C — Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- C1 — Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- D — NOT USED.
- E — NOT USED.
- F — Red Oak
  Quercus texana
  4" cal, container grown.
- G — Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- H — Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- I — Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- J — Pond Cypress
  Taxodium ascendens
  4" cal, container grown.
- K — Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- L — Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- M — River Birch
  Betula nigra
  12-14' ht,, 3-5 canes each, B&B.
- AA — NOT USED.
- BB — Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- CC — Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- CC-2 — Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- DD — Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- EE — Weeping Love Grass
  Eragrostis curvula
- FF — Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- GG — Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- HH — Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- II — Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- JJ — Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- KK — Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- LL — Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- MM — Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- NN — Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

SOUTHERN PARKING AREA AND DRIVE PLANTING PLAN - SHRUBS, GROUNDCOVER & GRASSES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-14

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

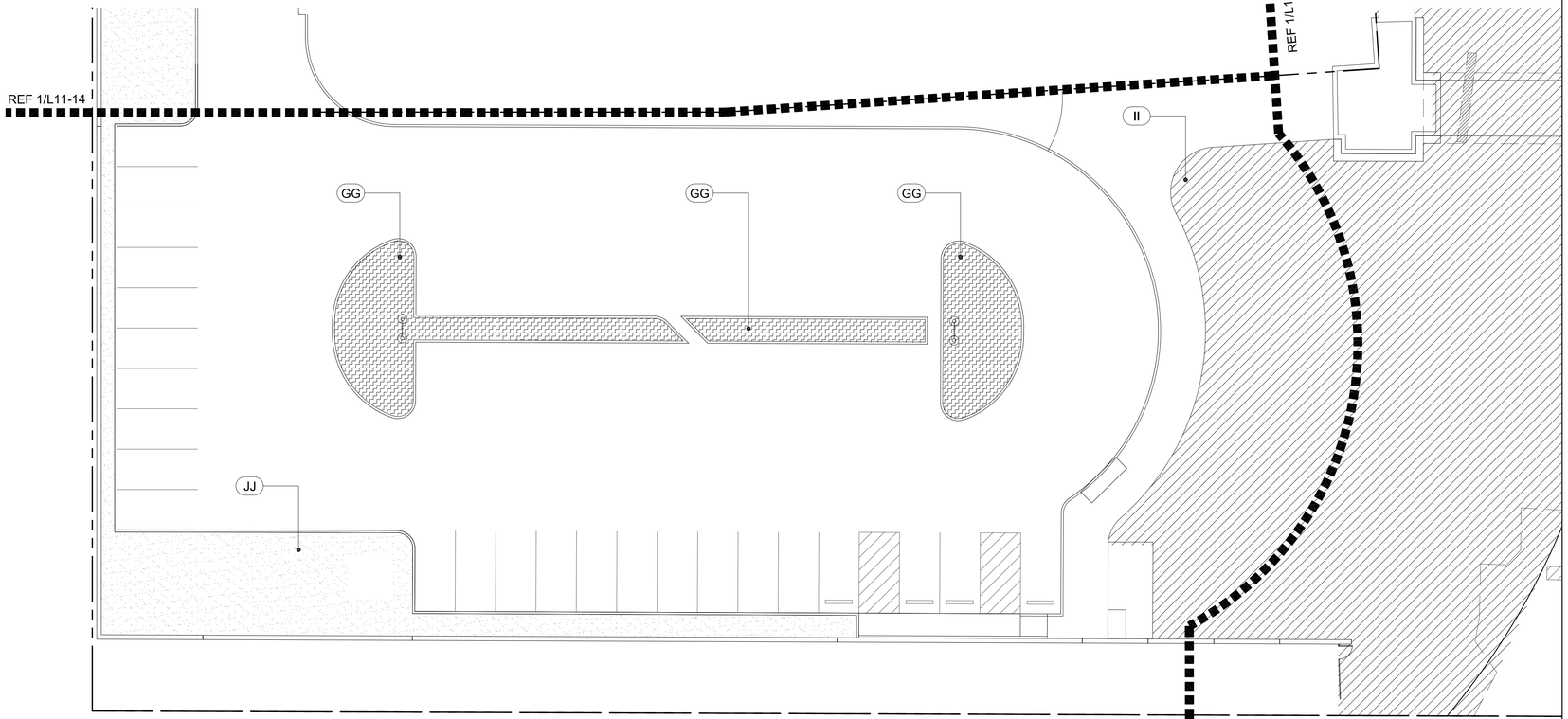
PLANT QUANTITIES

GG (1,638 sf.) Asian Jasmine
Trachelospermum asiaticum
1 gal., plant 18" o.c.

II (3,521 sf.) Grass Mix for Hydromulch
Inland Sea Oats - *Chasmanthium latifolium*
Cherokee Sedge - *Carox cherokeensis*
Star Sedge - *Rhynchospora colorata*

JJ (2,222 sf.) Midiron Bermuda
Cynodon dactylon 'Midiron'
sod, pinned on slopes greater than 6:1.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



0' 8' 16' 32'

1
L11-15
Southern Parking Area and Drive, Planting Plan - Shrubs, Groundcover & Grasses

PLANTING LEGEND

A Existing Tree to remain
Reference specifications for existing tree protection and treatment.

B Preserved Live Oak
Quercus virginiana
On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.

C Live Oak
Quercus virginiana
4" cal, single trunk, container grown.

C1 Live Oak, 'High Rise'
Quercus virginiana, 'QVTIA'
4" cal, single trunk, container grown.

D NOT USED.

E NOT USED.

F Red Oak
Quercus texana
4" cal, container grown.

G Shumard Oak
Quercus shumardii
4" cal, container grown.

H Chinkapin Oak
Quercus muhlenbergii
4" cal, container grown.

I Bald Cypress
Taxodium distichum
4" cal, container grown.

J Pond Cypress
Taxodium ascendens
4" cal, container grown,

K Texas Ash
Fraxinus texensis
4" cal, container grown.

L Lacebark Elm
Ulmus parvifolia
4" caliper, container grown.

M River Birch
Betula nigra
12-14' ht,, 3-5 canes each, B&B.

AA NOT USED.

BB Savannah Holly
Ilex opaca x attenuata 'Savannah'
4" cal, single trunk, 12' ht, tree form, container grown.

CC Natchez Crape Myrtle
Lagerstroemia indica 'Natchez'
12'-14' ht, multi trunk, 3-5 canes, grown for height.

CC-2 Natchez Crape Myrtle
Lagerstroemia indica 'Natchez'
10'-12' ht, multi trunk, 3-5 canes, grown for height.

DD Oklahoma Redbud
Cercis canadensis 'Oklahoma'
3"-3 ½" cal, 8' ht, container grown

EE Weeping Love Grass
Eragrostis curvula

FF Vitex
Vitex agnus-castus
65 gal, 10' ht, container, grown for height.

GG Asian Jasmine
Trachelospermum asiaticum
1 gal, plant 18" o.c.

HH Horsetail Reed
Equisetum hyemale
1 gal, plant 18" o.c.

II Grass Mix for Hydromulch
Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.

JJ Midiron Bermuda
Cynodon dactylon 'Midiron'
sod, pinned on slopes greater than 6:1.

KK Harbor Dwarf Nandina
Nandina domestica 'Harbor Dwarf'
15 gal., 3' ht., 36" o.c.

LL Dwarf Chinese Holly
Ilex cornuta 'Rotunda'
15 gal., 3' ht., 36" o.c.

MM Creeping Fig
Ficus Pumila
1 gal., staggered 18"-24" o.c.

NN Mondo Grass
Ophiopogon japonicus
4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

SOUTHERN PARKING AREA AND DRIVE PLANTING PLAN - GROUND COVER & GRASSES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

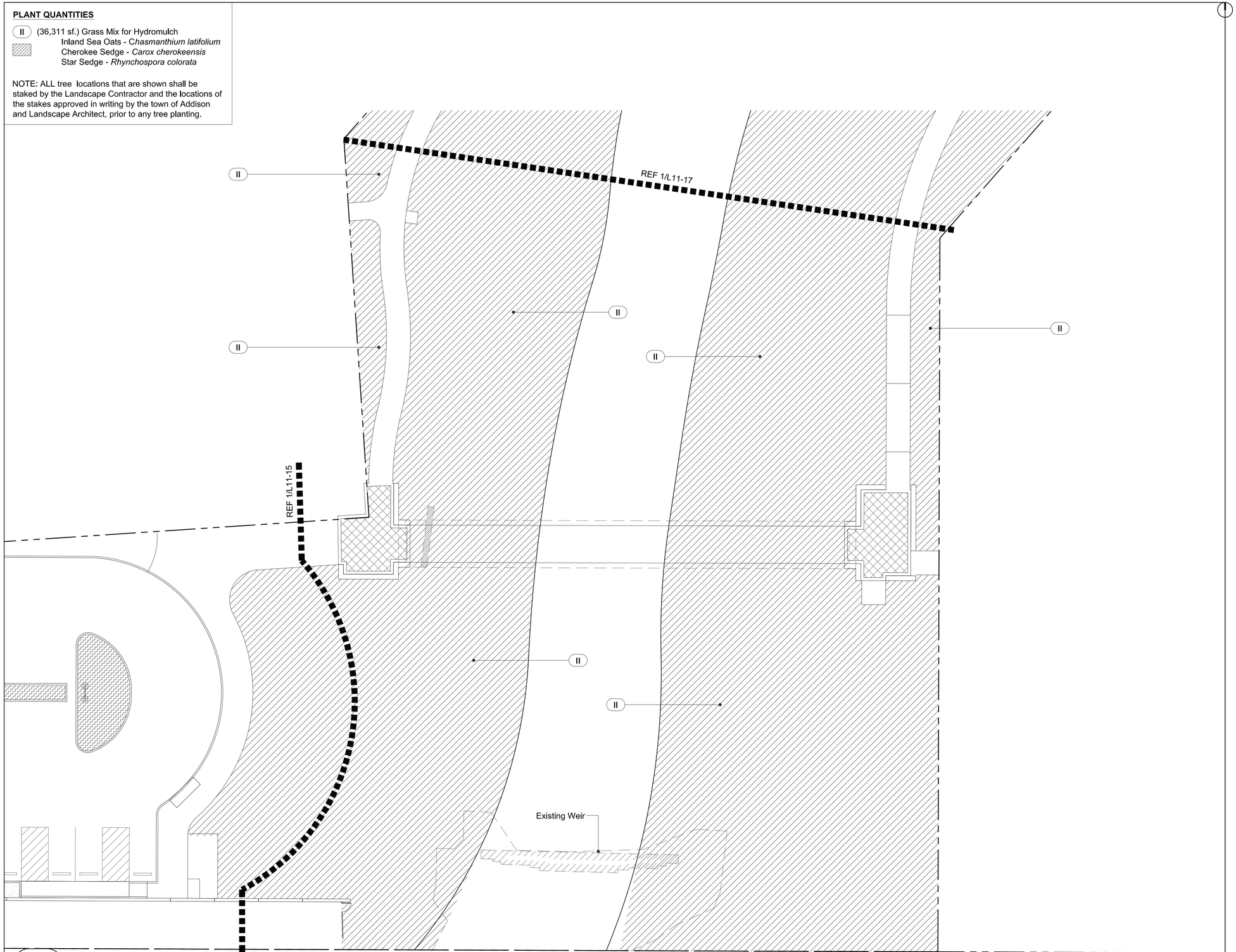
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-15

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PLANT QUANTITIES

II (36,311 sf.) Grass Mix for Hydromulch
Inland Sea Oats - *Chasmanthium latifolium*
Cherokee Sedge - *Carox cherokeensis*
Star Sedge - *Rhynchospora colorata*

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



1
L11-16
Southern Park Area - A, Planting Plan - Shrubs, Groundcover & Grasses

0' 8' 16' 32'

PLANTING LEGEND

- A — Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- B — Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.
- C — Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- C1 — Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- D — NOT USED.
- E — NOT USED.
- F — Red Oak
  Quercus texana
  4" cal, container grown.
- G — Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- H — Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- I — Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- J — Pond Cypress
  Taxodium ascendens
  4" cal, container grown,
- K — Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- L — Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- M — River Birch
  Betula nigra
  12-14' ht,, 3-5 canes each, B&B.
- AA — NOT USED.
- BB — Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- CC — Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- CC-2 — Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- DD — Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- EE — Weeping Love Grass
  Eragrostis curvula
- FF — Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- GG — Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- HH — Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- II — Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- JJ — Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- KK — Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- LL — Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- MM — Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- NN — Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

SOUTHERN PARK AREA - A PLANTING PLAN - SHRUBS, GROUND COVER & GRASSES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

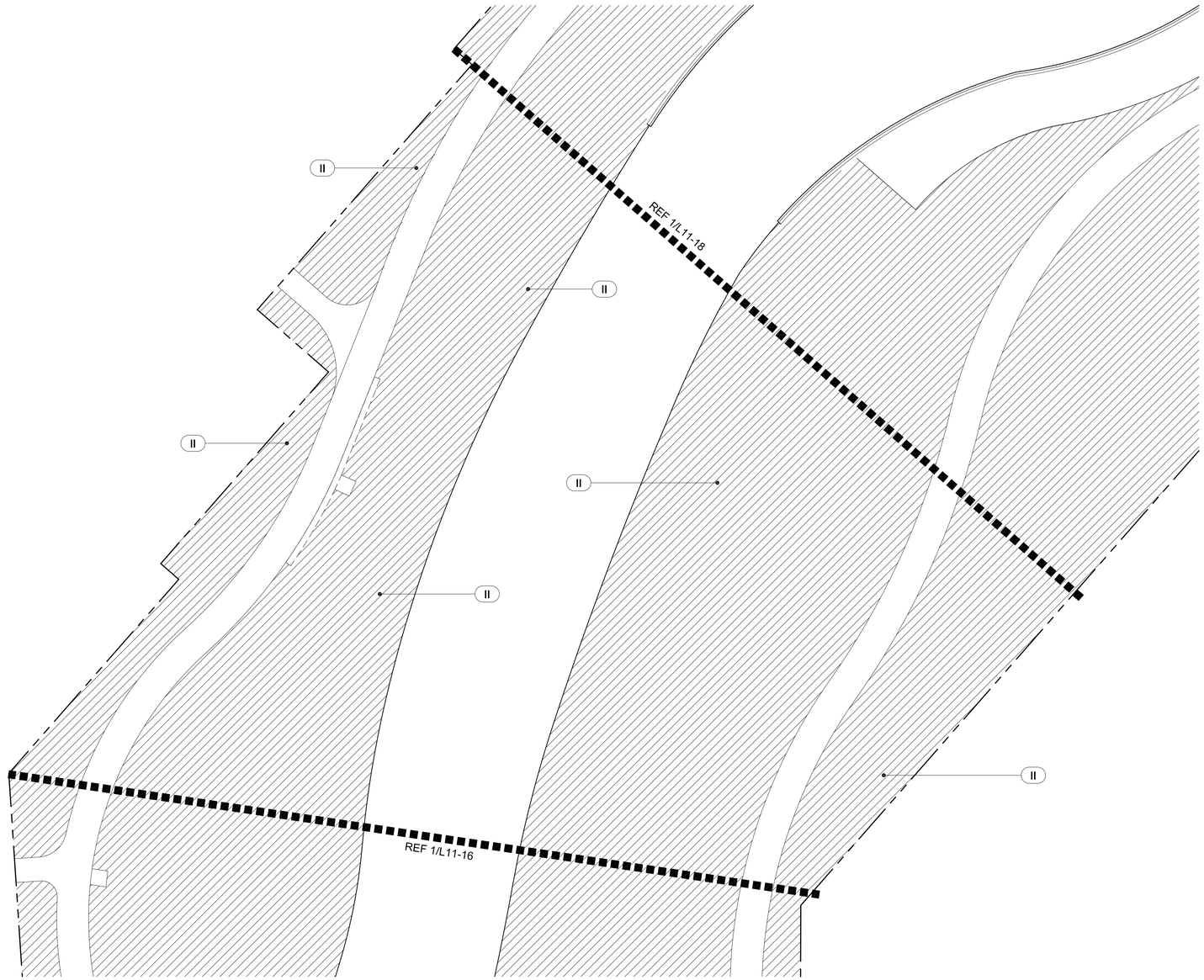
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-16

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PLANT QUANTITIES

II (19,894 sf.) Grass Mix for Hydromulch
Inland Sea Oats - *Chasmanthium latifolium*
Cherokee Sedge - *Carox cherokeensis*
Star Sedge - *Rhynchospora colorata*

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



1
L11-17
Southern Park Area - B, Planting Plan - Shrubs, Groundcover & Grasses

0' 8' 16' 32'

PLANTING LEGEND

- (A) Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- (B) Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.
- (C) Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- (C1) Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- (D) NOT USED.
- (E) NOT USED.
- (F) Red Oak
  Quercus texana
  4" cal, container grown.
- (G) Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- (H) Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- (I) Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- (J) Pond Cypress
  Taxodium ascendens
  4" cal, container grown,
- (K) Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- (L) Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- (M) River Birch
  Betula nigra
  12-14' ht,, 3-5 canes each, B&B.
- (AA) NOT USED.
- (BB) Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- (CC) Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- (CC-2) Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- (DD) Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- (EE) Weeping Love Grass
  Eragrostis curvula
- (FF) Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- (GG) Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- (HH) Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- (II) Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- (JJ) Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- (KK) Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- (LL) Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- (MM) Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- (NN) Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

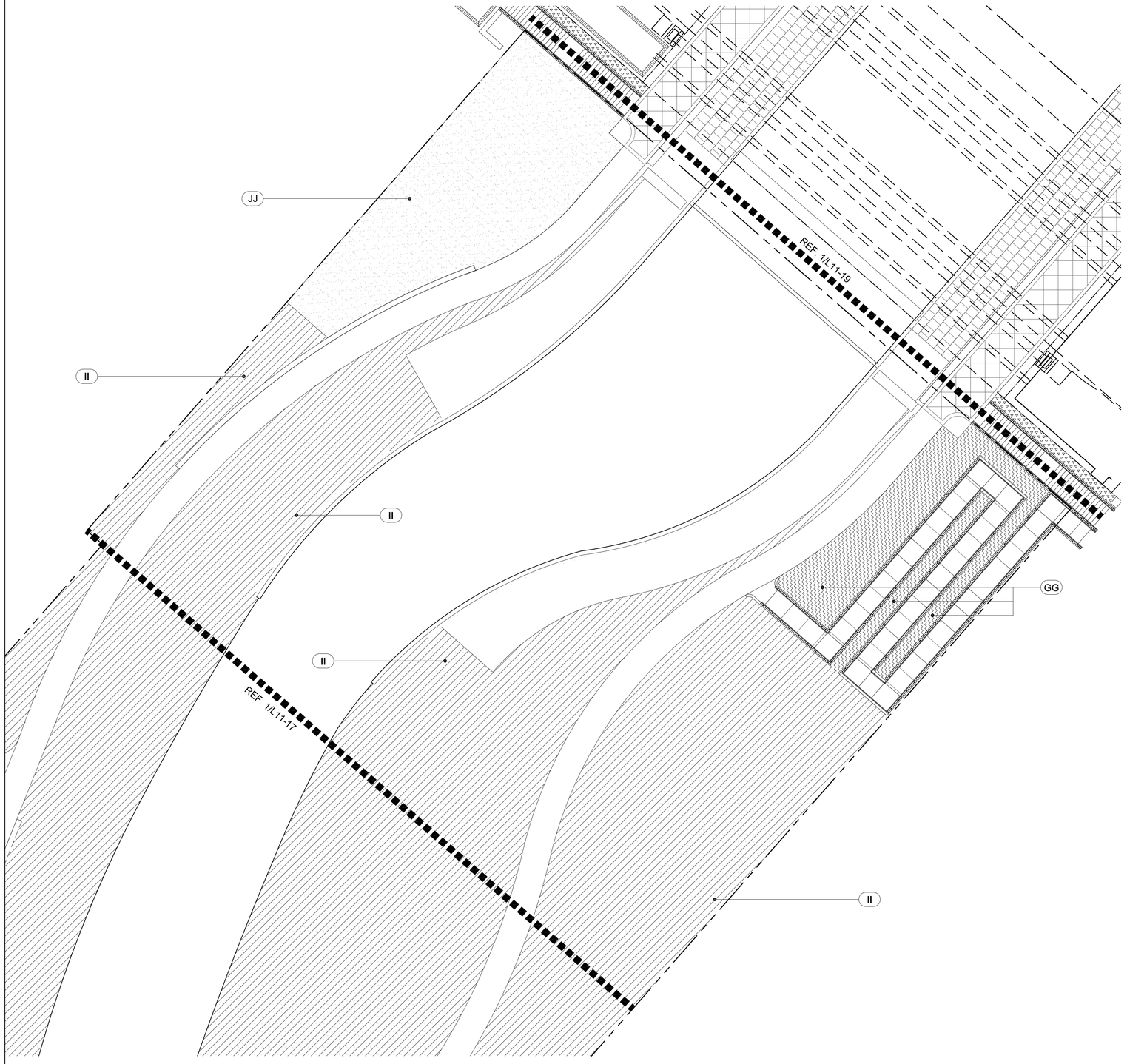
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

SOUTHERN PARK AREA -B PLANTING PLAN - SHRUBS, GROUNDCOVER & GRASSES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-17

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



PLANT QUANTITIES

GG (1,616 sf.) Asian Jasmine
Trachelospermum asiaticum
1 gal., plant 18" o.c.

II (13,921 sf.) Grass Mix for Hydromulch
Inland Sea Oats - *Chasmanthium latifolium*
Cherokee Sedge - *Carox cherokeensis*
Star Sedge - *Rhynchospora colorata*

JJ (3,458 sf.) Midiron Bermuda
Cynodon dactylon 'Midiron'
sod, pinned on slopes greater than 6:1.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.

PLANTING LEGEND

A Existing Tree to remain
Reference specifications for existing tree protection and treatment.

B Preserved Live Oak
Quercus virginiana
On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.

C Live Oak
Quercus virginiana
4" cal, single trunk, container grown.

C1 Live Oak, 'High Rise'
Quercus virginiana, 'QVTIA'
4" cal, single trunk, container grown.

D NOT USED.

E NOT USED.

F Red Oak
Quercus texana
4" cal, container grown.

G Shumard Oak
Quercus shumardii
4" cal, container grown.

H Chinkapin Oak
Quercus muhlenbergii
4" cal, container grown.

I Bald Cypress
Taxodium distichum
4" cal, container grown.

J Pond Cypress
Taxodium ascendens
4" cal, container grown,

K Texas Ash
Fraxinus texensis
4" cal, container grown.

L Lacebark Elm
Ulmus parvifolia
4" caliper, container grown.

M River Birch
Betula nigra
12-14' ht., 3-5 canes each, B&B.

AA NOT USED.

BB Savannah Holly
Ilex opaca x attenuata 'Savannah'
4" cal, single trunk, 12' ht, tree form, container grown.

CC Natchez Crape Myrtle
Lagerstroemia indica 'Natchez'
12'-14' ht, multi trunk, 3-5 canes, grown for height.

CC-2 Natchez Crape Myrtle
Lagerstroemia indica 'Natchez'
10'-12' ht, multi trunk, 3-5 canes, grown for height.

DD Oklahoma Redbud
Cercis canadensis 'Oklahoma'
3"-3 ½" cal, 8' ht, container grown

EE Weeping Love Grass
Eragrostis curvula

FF Vitex
Vitex agnus-castus
65 gal, 10' ht, container, grown for height.

GG Asian Jasmine
Trachelospermum asiaticum
1 gal, plant 18" o.c.

HH Horsetail Reed
Equisetum hyemale
1 gal, plant 18" o.c.

II Grass Mix for Hydromulch
Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.

JJ Midiron Bermuda
Cynodon dactylon 'Midiron'
sod, pinned on slopes greater than 6:1.

KK Harbor Dwarf Nandina
Nandina domestica 'Harbor Dwarf'
15 gal., 3' ht., 36" o.c.

LL Dwarf Chinese Holly
Ilex cornuta 'Rotunda'
15 gal., 3' ht., 36" o.c.

MM Creeping Fig
Ficus Pumila
1 gal., staggered 18"-24" o.c.

NN Mondo Grass
Ophiopogon japonicus
4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

SOUTHERN PARK AREA -C PLANTING PLAN - SHRUBS, GROUNDCOVER & GRASSES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-18

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

1
L11-18
Southern Park Area - C, Planting Plan - Shrubs, Groundcover & Grasses

0' 8' 16' 32'

PLANT QUANTITIES

GG (1,447 sf.) Asian Jasmine
Trachelospermum asiaticum
1 gal. plant, 18" o.c.

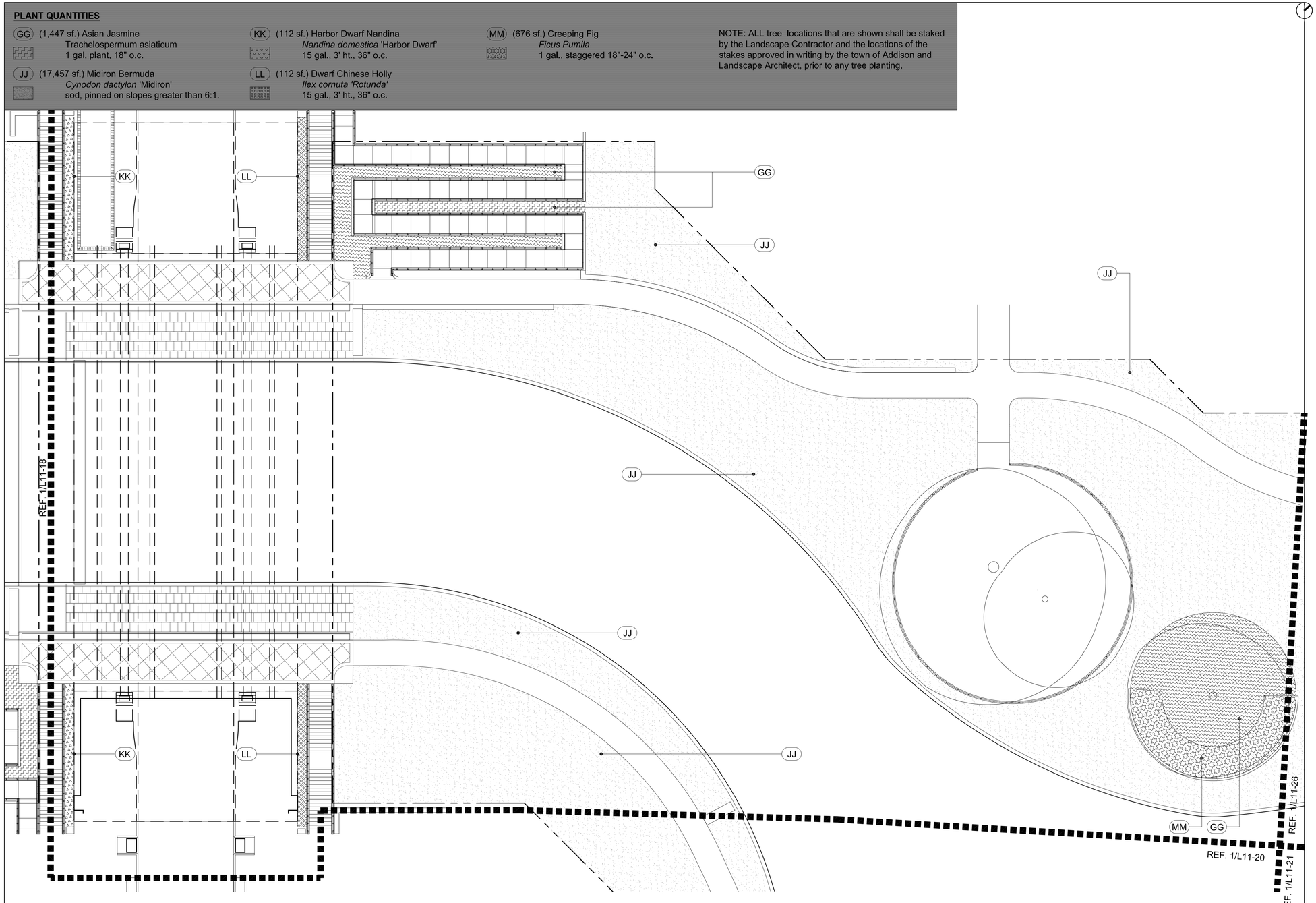
JJ (17,457 sf.) Midiron Bermuda
Cynodon dactylon 'Midiron'
sod, pinned on slopes greater than 6:1.

KK (112 sf.) Harbor Dwarf Nandina
Nandina domestica 'Harbor Dwarf'
15 gal., 3' ht., 36" o.c.

LL (112 sf.) Dwarf Chinese Holly
Ilex cornuta 'Rotunda'
15 gal., 3' ht., 36" o.c.

MM (676 sf.) Creeping Fig
Ficus Pumila
1 gal., staggered 18"-24" o.c.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



1
L11-19 Northern Park Area - A, Planting Plan - Shrubs, Groundcover & Grasses

PLANTING LEGEND

- A — Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- B — Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.
- C — Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- C1 — Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- D — NOT USED.
- E — NOT USED.
- F — Red Oak
  Quercus texana
  4" cal, container grown.
- G — Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- H — Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- I — Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- J — Pond Cypress
  Taxodium ascendens
  4" cal, container grown,
- K — Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- L — Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- M — River Birch
  Betula nigra
  12-14' ht,, 3-5 canes each, B&B.
- AA — NOT USED.
- BB — Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- CC — Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- CC-2 — Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- DD — Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- EE — Weeping Love Grass
  Eragrostis curvula
- FF — Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- GG — Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- HH — Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- II — Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- JJ — Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- KK — Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- LL — Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- MM — Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- NN — Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

NORTHERN PARK AREA - A PLANTING PLAN - SHRUBS, GROUNDCOVER & GRASSES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

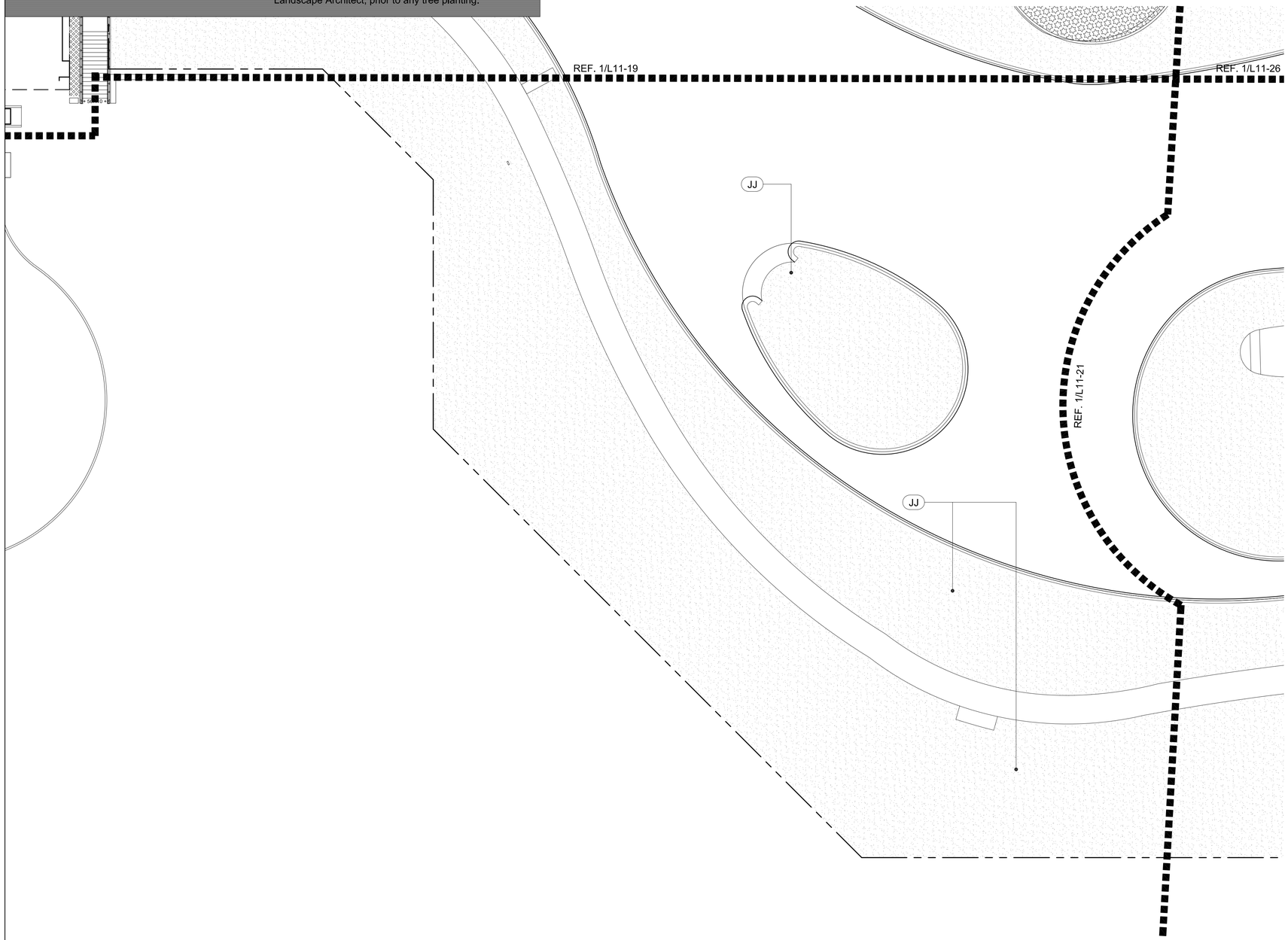
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-19

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PLANT QUANTITIES

JJ (20,182 sf.) Midiron Bermuda
Cynodon dactylon 'Midiron'
sod, pinned on slopes greater than 6:1.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



1
L11-20
Southern Park Area - B, Planting Plan - Shrubs, Groundcover & Grasses

0' 8' 16' 32'

PLANTING LEGEND

- A — Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- B — Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.
- C — Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- C1 — Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- D — NOT USED.
- E — NOT USED.
- F — Red Oak
  Quercus texana
  4" cal, container grown.
- G — Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- H — Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- I — Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- J — Pond Cypress
  Taxodium ascendens
  4" cal, container grown,
- K — Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- L — Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- M — River Birch
  Betula nigra
  12-14' ht,, 3-5 canes each, B&B.
- AA — NOT USED.
- BB — Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- CC — Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- CC-2 — Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- DD — Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- EE — Weeping Love Grass
  Eragrostis curvula
- FF — Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- GG — Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- HH — Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- II — Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- JJ — Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- KK — Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- LL — Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- MM — Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- NN — Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

NORTHERN PARK AREA -B PLANTING PLAN - SHRUBS, GROUNDCOVER & GRASSES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-20

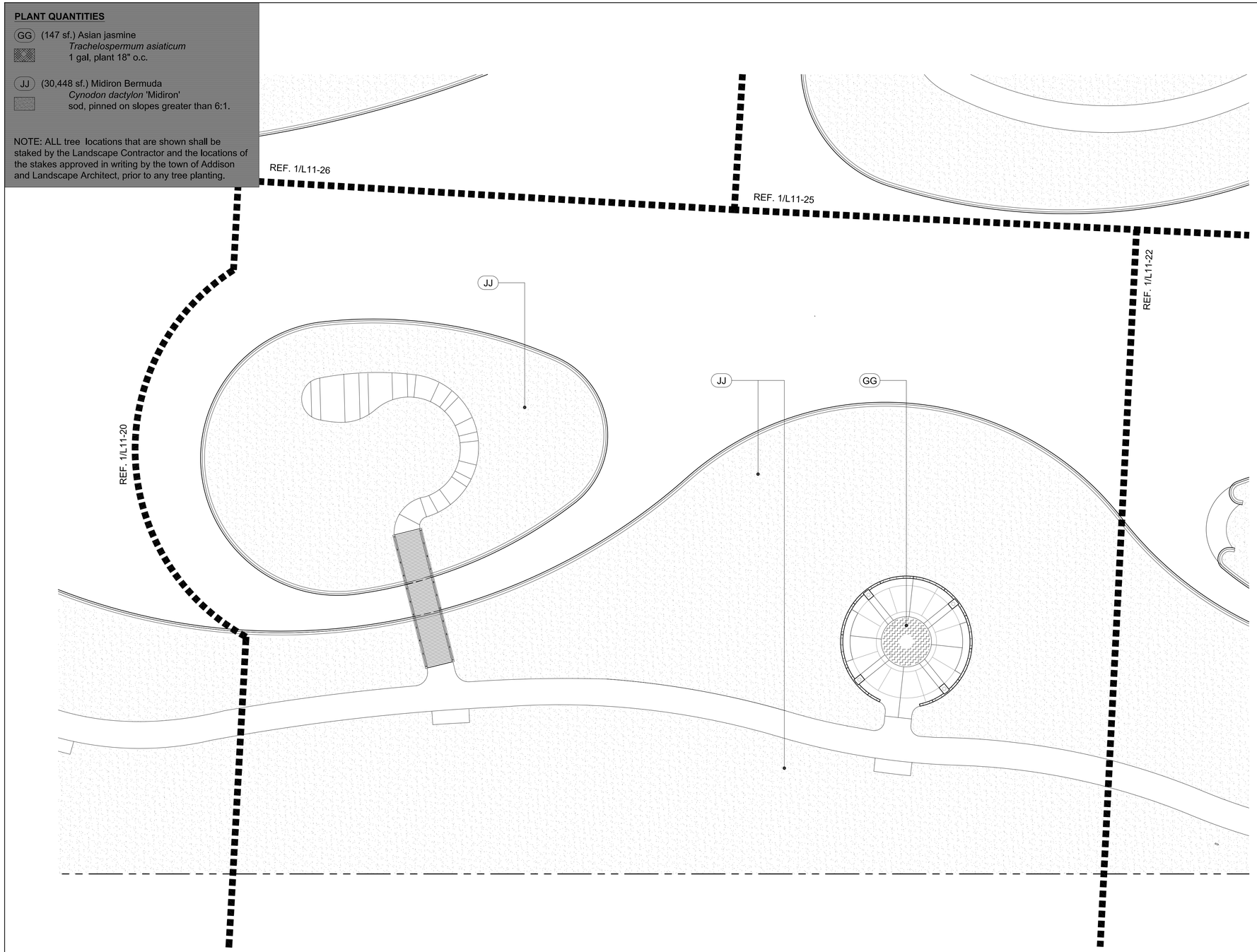
PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PLANT QUANTITIES

GG (147 sf.) Asian jasmine
Trachelospermum asiaticum
1 gal, plant 18" o.c.

JJ (30,448 sf.) Midiron Bermuda
Cynodon dactylon 'Midiron'
sod, pinned on slopes greater than 6:1.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



0' 8' 16' 32'

1
L11-21
Northern Park Area - C, Planting Plan - Shrubs, Groundcover & Grasses

PLANTING LEGEND

- A — Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- B — Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.
- C — Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- C1 — Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- D — NOT USED.
- E — NOT USED.
- F — Red Oak
  Quercus texana
  4" cal, container grown.
- G — Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- H — Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- I — Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- J — Pond Cypress
  Taxodium ascendens
  4" cal, container grown.
- K — Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- L — Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- M — River Birch
  Betula nigra
  12-14' ht., 3-5 canes each, B&B.
- AA — NOT USED.
- BB — Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- CC — Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- CC-2 — Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- DD — Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- EE — Weeping Love Grass
  Eragrostis curvula
- FF — Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- GG — Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- HH — Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- II — Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- JJ — Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- KK — Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- LL — Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- MM — Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- NN — Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

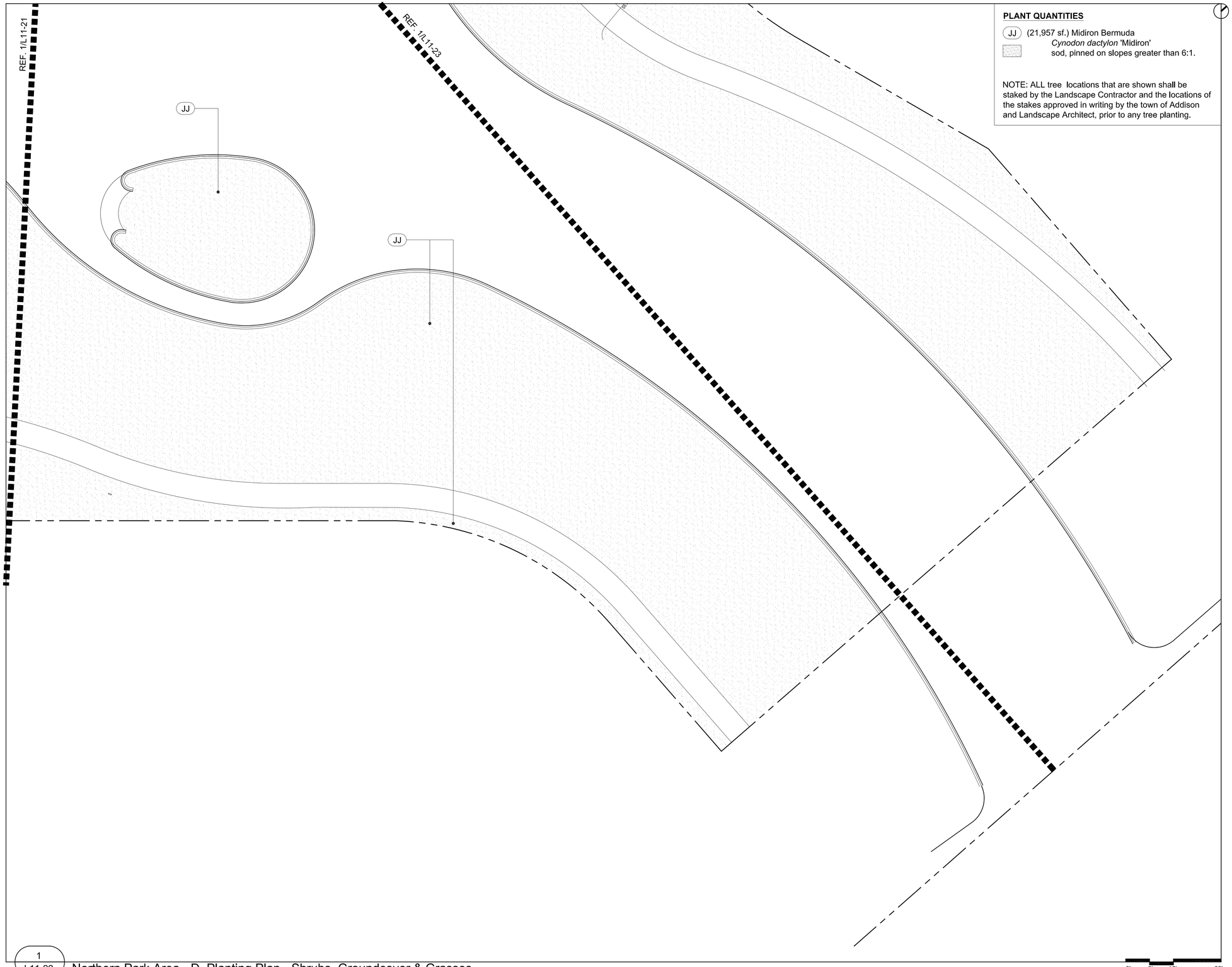
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

NORTHERN PARK AREA - C PLANTING PLAN - SHRUBS, GROUNDCOVER & GRASSES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-21

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



PLANT QUANTITIES

JJ (21,957 sf.) Midiron Bermuda
Cynodon dactylon 'Midiron'
sod, pinned on slopes greater than 6:1.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.

PLANTING LEGEND

- A — Existing Tree to remain. Reference specifications for existing tree protection and treatment.
- B — Preserved Live Oak. *Quercus virginiana*. On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.
- C — Live Oak. *Quercus virginiana*. 4" cal, single trunk, container grown.
- C1 — Live Oak, 'High Rise'. *Quercus virginiana, 'QVTIA'*. 4" cal, single trunk, container grown.
- D — NOT USED.
- E — NOT USED.
- F — Red Oak. *Quercus texana*. 4" cal, container grown.
- G — Shumard Oak. *Quercus shumardii*. 4" cal, container grown.
- H — Chinkapin Oak. *Quercus muhlenbergii*. 4" cal, container grown.
- I — Bald Cypress. *Taxodium distichum*. 4" cal, container grown.
- J — Pond Cypress. *Taxodium ascendens*. 4" cal, container grown.
- K — Texas Ash. *Fraxinus texensis*. 4" cal, container grown.
- L — Lacebark Elm. *Ulmus parvifolia*. 4" caliper, container grown.
- M — River Birch. *Betula nigra*. 12-14' ht., 3-5 canes each, B&B.
- AA — NOT USED.
- BB — Savannah Holly. *Ilex opaca x attenuata 'Savannah'*. 4" cal, single trunk, 12' ht, tree form, container grown.
- CC — Natchez Crape Myrtle. *Lagerstroemia indica 'Natchez'*. 12'-14' ht, multi trunk, 3-5 canes, grown for height.
- CC-2 — Natchez Crape Myrtle. *Lagerstroemia indica 'Natchez'*. 10'-12' ht, multi trunk, 3-5 canes, grown for height.
- DD — Oklahoma Redbud. *Cercis canadensis 'Oklahoma'*. 3"-3 ½" cal, 8' ht, container grown
- EE — Weeping Love Grass. Eragrostis curvula
- FF — Vitex. *Vitex agnus-castus*. 65 gal, 10' ht, container, grown for height.
- GG — Asian Jasmine. *Trachelospermum asiaticum*. 1 gal, plant 18" o.c.
- HH — Horsetail Reed. *Equisetum hyemale*. 1 gal, plant 18" o.c.
- II — Grass Mix for Hydromulch. Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- JJ — Midiron Bermuda. *Cynodon dactylon* 'Midiron' sod, pinned on slopes greater than 6:1.
- KK — Harbor Dwarf Nandina. *Nandina domestica* 'Harbor Dwarf' 15 gal., 3' ht., 36" o.c.
- LL — Dwarf Chinese Holly. *Ilex cornuta 'Rotunda'*. 15 gal., 3' ht., 36" o.c.
- MM — Creeping Fig. *Ficus Pumila*. 1 gal., staggered 18"-24" o.c.
- NN — Mondo Grass. *Ophiopogon japonicus*. 4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT · KEVIN W. SLOAN · 2296 · STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

NORTHERN PARK AREA - D PLANTING PLAN - SHRUBS, GROUNDCOVER & GRASSES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009	PW # 2009-04	L11-22

BID

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

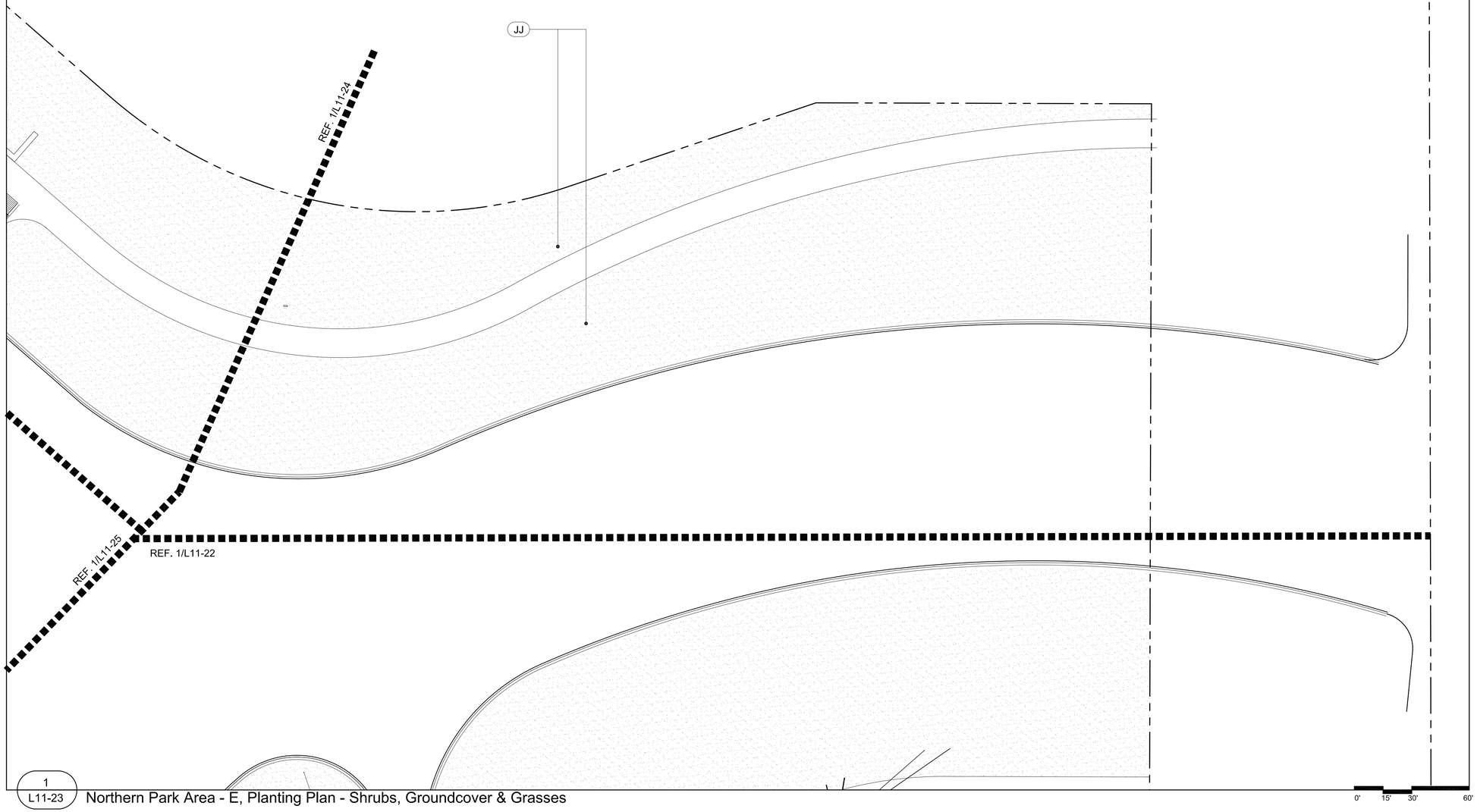
1
L11-22
Northern Park Area - D, Planting Plan - Shrubs, Groundcover & Grasses

0' 8' 16' 32'

PLANT QUANTITIES

JJ (13,602 sf.) Midiron Bermuda
Cynodon dactylon 'Midiron'
sod, pinned on slopes greater than 6:1.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



1
L11-23
Northern Park Area - E, Planting Plan - Shrubs, Groundcover & Grasses

PLANTING LEGEND

- A — Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- B — Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.
- C — Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- C1 — Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- D — NOT USED.
- E — NOT USED.
- F — Red Oak
  Quercus texana
  4" cal, container grown.
- G — Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- H — Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- I — Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- J — Pond Cypress
  Taxodium ascendens
  4" cal, container grown,
- K — Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- L — Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- M — River Birch
  Betula nigra
  12-14' ht,, 3-5 canes each, B&B.
- AA — NOT USED.
- BB — Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- CC — Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- CC-2 — Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- DD — Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- EE — Weeping Love Grass
  Eragrostis curvula
- FF — Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- GG — Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- HH — Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- II — Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- JJ — Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- KK — Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- LL — Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- MM — Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- NN — Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

NORTHERN PARK AREA -E PLANTING PLAN - SHRUBS, GROUNDCOVER & GRASSES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-23

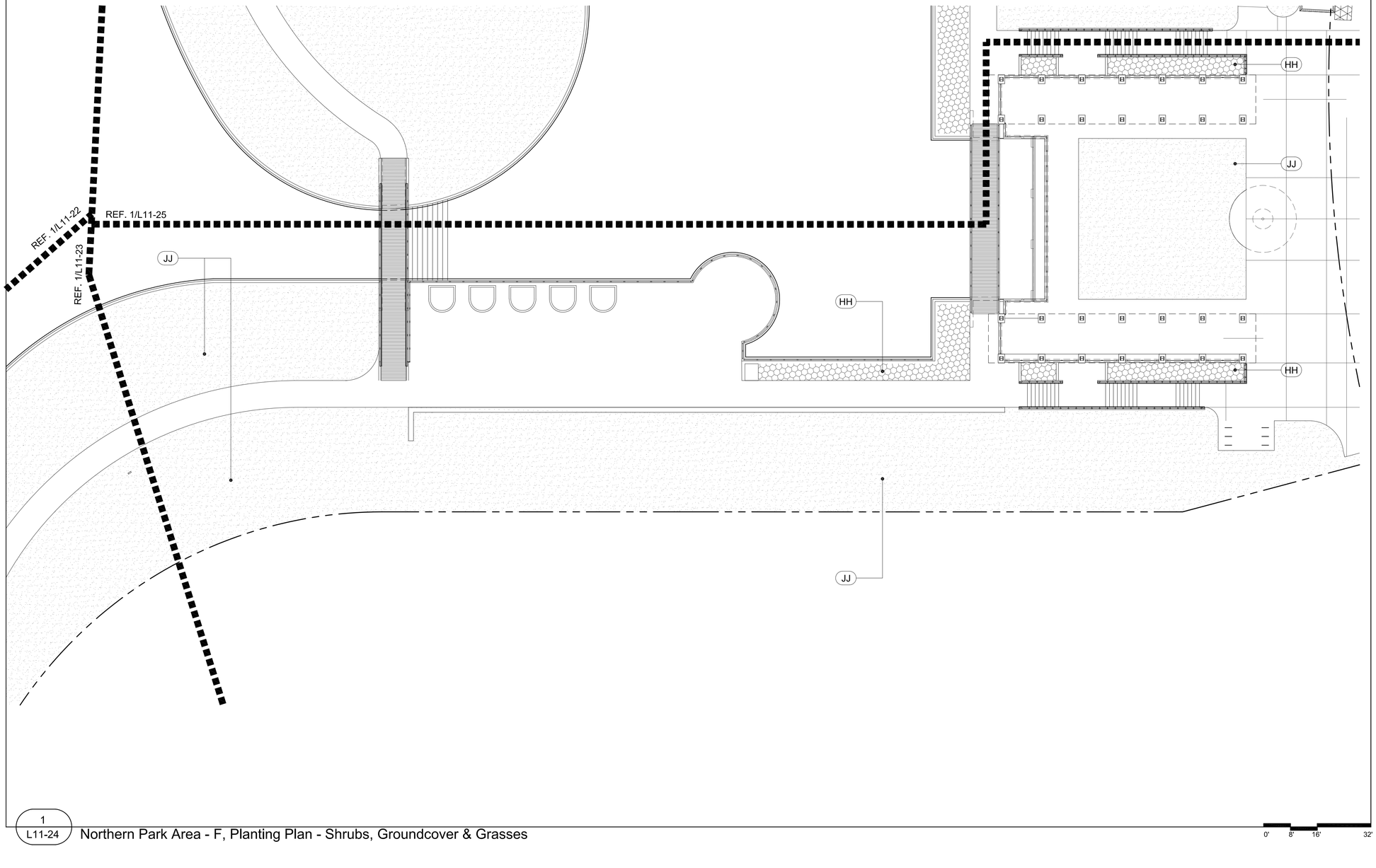
PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PLANT QUANTITIES

HH (1,016 sf.) Horsetail Reed
Equisetum hyemale
1 gal, plant 18" o.c.

JJ (15,231 sf.) Midiron Bermuda
Cynodon dactylon 'Midiron'
sod, pinned on slopes greater than 6:1.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



1
L11-24
Northern Park Area - F, Planting Plan - Shrubs, Groundcover & Grasses

0' 8' 16' 32'

PLANTING LEGEND

- A — Existing Tree to remain. Reference specifications for existing tree protection and treatment.
- B — Preserved Live Oak. *Quercus virginiana*. On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.
- C — Live Oak. *Quercus virginiana*. 4" cal, single trunk, container grown.
- C1 — Live Oak, 'High Rise'. *Quercus virginiana, 'QVTIA'*. 4" cal, single trunk, container grown.
- D — NOT USED.
- E — NOT USED.
- F — Red Oak. *Quercus texana*. 4" cal, container grown.
- G — Shumard Oak. *Quercus shumardii*. 4" cal, container grown.
- H — Chinkapin Oak. *Quercus muhlenbergii*. 4" cal, container grown.
- I — Bald Cypress. *Taxodium distichum*. 4" cal, container grown.
- J — Pond Cypress. *Taxodium ascendens*. 4" cal, container grown.
- K — Texas Ash. *Fraxinus texensis*. 4" cal, container grown.
- L — Lacebark Elm. *Ulmus parvifolia*. 4" caliper, container grown.
- M — River Birch. *Betula nigra*. 12-14' ht., 3-5 canes each, B&B.
- AA — NOT USED.
- BB — Savannah Holly. *Ilex opaca x attenuata 'Savannah'*. 4" cal, single trunk, 12' ht, tree form, container grown.
- CC — Natchez Crape Myrtle. *Lagerstroemia indica 'Natchez'*. 12'-14' ht, multi trunk, 3-5 canes, grown for height.
- CC-2 — Natchez Crape Myrtle. *Lagerstroemia indica 'Natchez'*. 10'-12' ht, multi trunk, 3-5 canes, grown for height.
- DD — Oklahoma Redbud. *Cercis canadensis 'Oklahoma'*. 3"-3 ½" cal, 8' ht, container grown
- EE — Weeping Love Grass. Eragrostis curvula
- FF — Vitex. *Vitex agnus-castus*. 65 gal, 10' ht, container, grown for height.
- GG — Asian Jasmine. *Trachelospermum asiaticum*. 1 gal, plant 18" o.c.
- HH — Horsetail Reed. *Equisetum hyemale*. 1 gal, plant 18" o.c.
- II — Grass Mix for Hydromulch. Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- JJ — Midiron Bermuda. *Cynodon dactylon* 'Midiron'. sod, pinned on slopes greater than 6:1.
- KK — Harbor Dwarf Nandina. *Nandina domestica* 'Harbor Dwarf'. 15 gal., 3' ht., 36" o.c.
- LL — Dwarf Chinese Holly. *Ilex cornuta 'Rotunda'*. 15 gal., 3' ht., 36" o.c.
- MM — Creeping Fig. *Ficus Pumila*. 1 gal., staggered 18"-24" o.c.
- NN — Mondo Grass. *Ophiopogon japonicus*. 4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT · KEVIN W. SLOAN · 2296 · STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

NORTHERN PARK AREA - F PLANTING PLAN - SHRUBS, GROUNDCOVER & GRASSES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-24

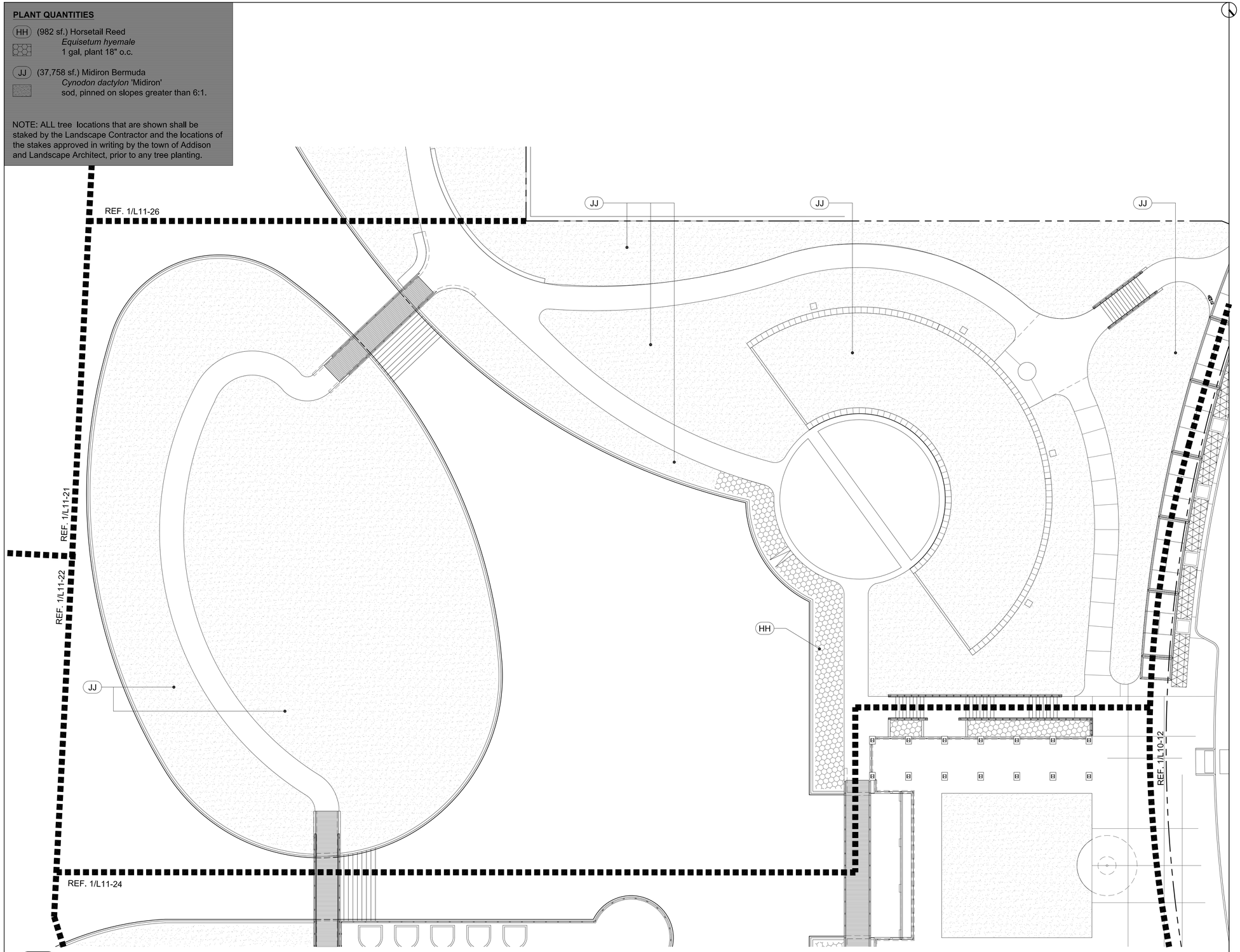
PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PLANT QUANTITIES

HH (982 sf.) Horsetail Reed
Equisetum hyemale
1 gal, plant 18" o.c.

JJ (37,758 sf.) Midiron Bermuda
Cynodon dactylon 'Midiron'
sod, pinned on slopes greater than 6:1.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



1
L11-25
Northern Park Area - G, Planting Plan - Shrubs, Groundcover & Grasses

PLANTING LEGEND

- A — Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- B — Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.
- C — Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- C1 — Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- D — NOT USED.
- E — NOT USED.
- F — Red Oak
  Quercus texana
  4" cal, container grown.
- G — Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- H — Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- I — Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- J — Pond Cypress
  Taxodium ascendens
  4" cal, container grown.
- K — Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- L — Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- M — River Birch
  Betula nigra
  12-14' ht,, 3-5 canes each, B&B.
- AA — NOT USED.
- BB — Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- CC — Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- CC-2 — Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- DD — Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- EE — Weeping Love Grass
  Eragrostis curvula
- FF — Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- GG — Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- HH — Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- II — Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- JJ — Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- KK — Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- LL — Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- MM — Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- NN — Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

NORTHERN PARK AREA - G PLANTING PLAN - SHRUBS, GROUNDCOVER & GRASSES

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

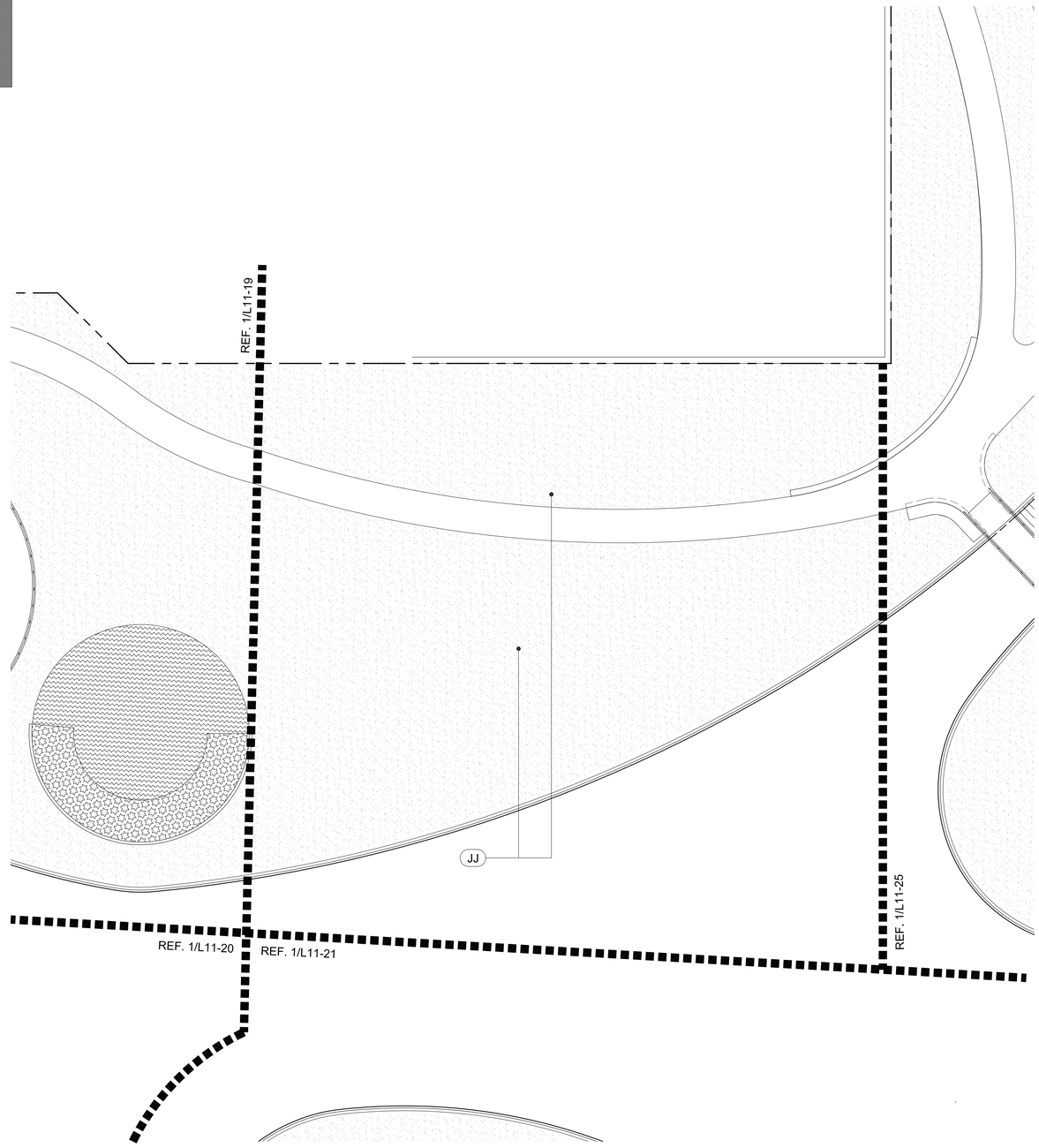
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-25

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PLANT QUANTITIES

JJ (13,342 sf.) Midiron Bermuda
Cynodon dactylon 'Midiron'
sod, pinned on slopes greater than 6:1.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



0' 8' 16' 32'

1
L11-26
Northern Park Area - H, Planting Plan - Shrubs, Groundcover & Grasses

PLANTING LEGEND

- A — Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- B — Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.
- C — Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- C1 — Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- D — NOT USED.
- E — NOT USED.
- F — Red Oak
  Quercus texana
  4" cal, container grown.
- G — Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- H — Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- I — Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- J — Pond Cypress
  Taxodium ascendens
  4" cal, container grown,
- K — Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- L — Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- M — River Birch
  Betula nigra
  12-14' ht,, 3-5 canes each, B&B.
- AA — NOT USED.
- BB — Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- CC — Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- CC-2 — Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- DD — Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- EE — Weeping Love Grass
  Eragrostis curvula
- FF — Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- GG — Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- HH — Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- II — Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- JJ — Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- KK — Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- LL — Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- MM — Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- NN — Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

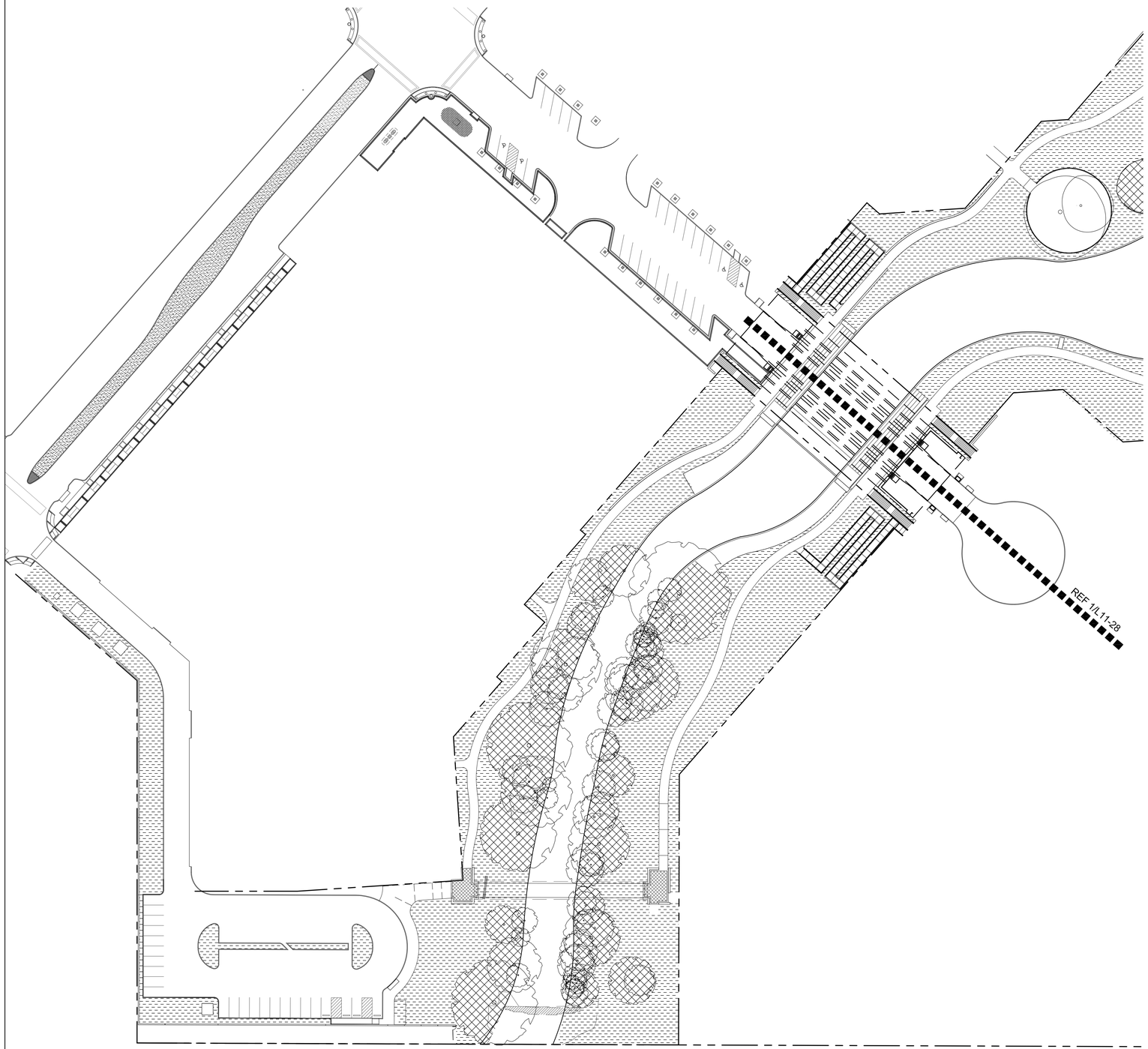
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

NORTHERN PARK AREA - H PLANTING PLAN - SHRUBS, GROUNDCOVER & GRASSES

KEVIN SLOAN STUDIO
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PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-26

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



LEGEND

Top Soil

Power Rake
Areas directly beneath dripline of existing trees.

PLANTING LEGEND

- (A) Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- (B) Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.
- (C) Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- (C1) Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- (D) NOT USED.
- (E) NOT USED.
- (F) Red Oak
  Quercus texana
  4" cal, container grown.
- (G) Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- (H) Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- (I) Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- (J) Pond Cypress
  Taxodium ascendens
  4" cal, container grown,
- (K) Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- (L) Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- (M) River Birch
  Betula nigra
  12-14' ht,, 3-5 canes each, B&B.
- (AA) NOT USED.
- (BB) Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- (CC) Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- (CC-2) Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- (DD) Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- (EE) Weeping Love Grass
  Eragrostis curvula
- (FF) Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- (GG) Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- (HH) Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- (II) Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- (JJ) Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- (KK) Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- (LL) Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- (MM) Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- (NN) Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

SOUTHERN PARK AREA - TOP SOIL & POWER RAKE AREAS

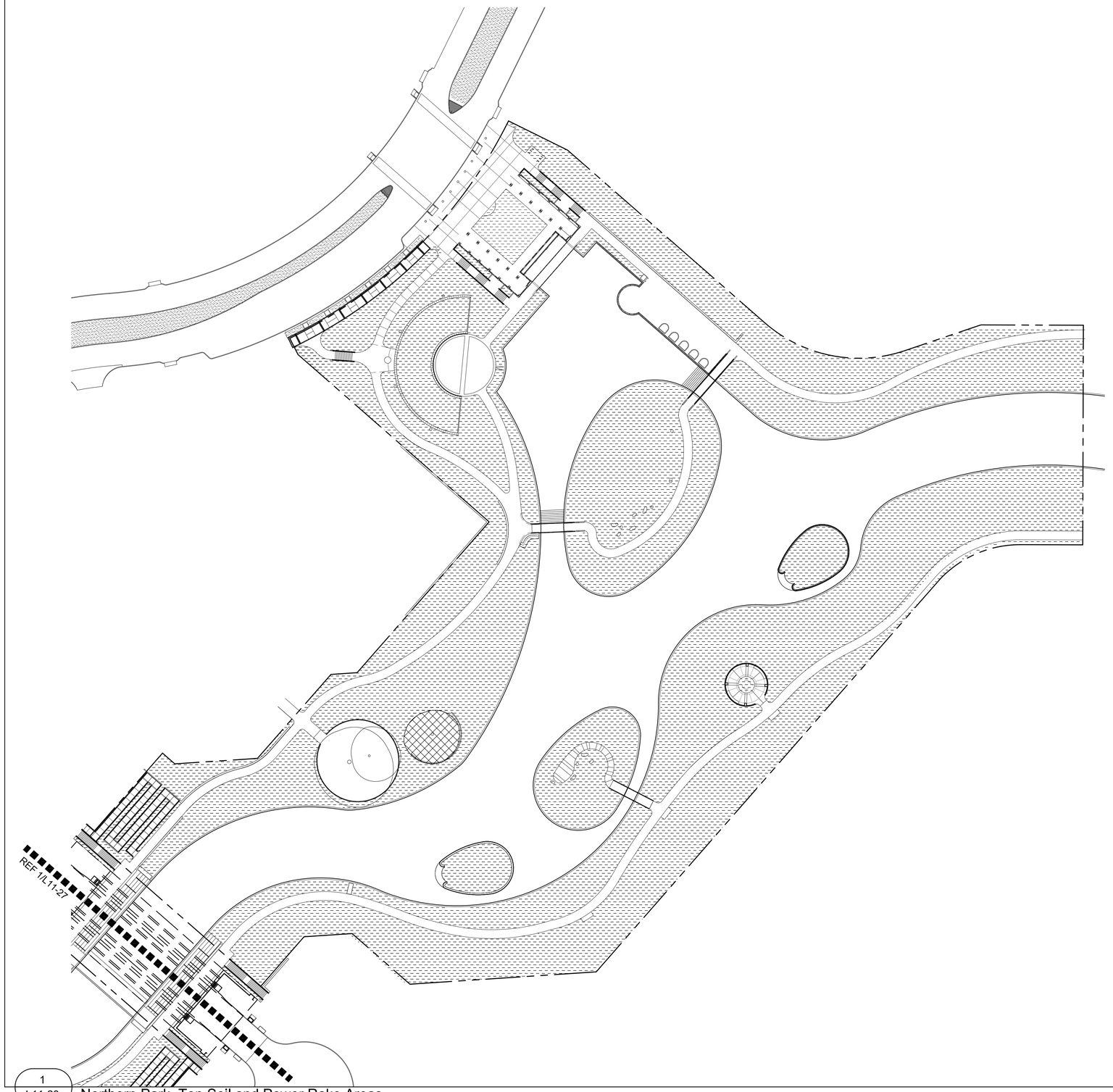
KEVIN SLOAN STUDIO
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PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-27

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

1
L11-27
Southern Park - Top Soil and Power Rake Areas

0' 25' 50' 100'



1
L11-28
Northern Park, Top Soil and Power Rake Areas

0' 25' 50' 100'

LEGEND

Top Soil

Power Rake
Areas directly beneath dripline of existing trees.

PLANTING LEGEND

- (A) Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- (B) Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.
- (C) Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- (C1) Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- (D) NOT USED.
- (E) NOT USED.
- (F) Red Oak
  Quercus texana
  4" cal, container grown.
- (G) Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- (H) Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- (I) Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- (J) Pond Cypress
  Taxodium ascendens
  4" cal, container grown,
- (K) Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- (L) Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- (M) River Birch
  Betula nigra
  12-14' ht,, 3-5 canes each, B&B.
- (AA) NOT USED.
- (BB) Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- (CC) Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- (CC-2) Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- (DD) Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- (EE) Weeping Love Grass
  Eragrostis curvula
- (FF) Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- (GG) Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- (HH) Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- (II) Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- (JJ) Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- (KK) Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- (LL) Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- (MM) Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- (NN) Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
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4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

NORTHERN PARK AREA - TOP SOIL & POWER RAKE AREAS

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

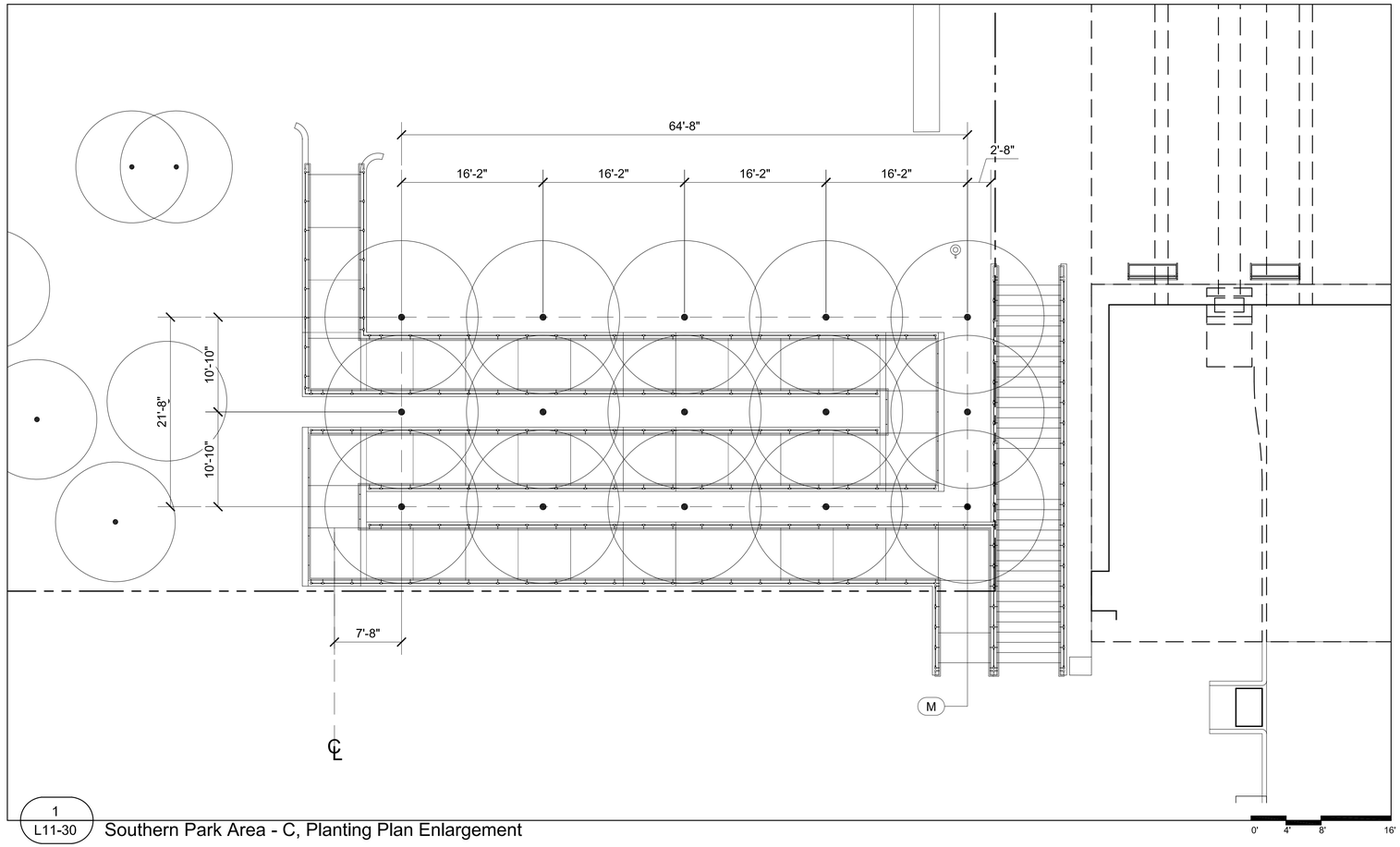
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-28

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PLANT QUANTITIES

(M) (15) River Birch
Betula nigra
12-14' ht., 3-5 canes, B&B.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



1
L11-30 Southern Park Area - C, Planting Plan Enlargement

PLANTING LEGEND

- (A) Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- (B) Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.
- (C) Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- (C1) Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- (D) NOT USED.
- (E) NOT USED.
- (F) Red Oak
  Quercus texana
  4" cal, container grown.
- (G) Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- (H) Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- (I) Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- (J) Pond Cypress
  Taxodium ascendens
  4" cal, container grown,
- (K) Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- (L) Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- (M) River Birch
  Betula nigra
  12-14' ht., 3-5 canes each, B&B.
- (AA) NOT USED.
- (BB) Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- (CC) Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- (CC-2) Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- (DD) Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- (EE) Weeping Love Grass
  Eragrostis curvula
- (FF) Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- (GG) Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- (HH) Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- (II) Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- (JJ) Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- (KK) Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- (LL) Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- (MM) Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- (NN) Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

SOUTHERN PARK AREA C - PLANTING PLAN ENLARGEMENT

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Dallas, Texas 75204 (214) 379-1061

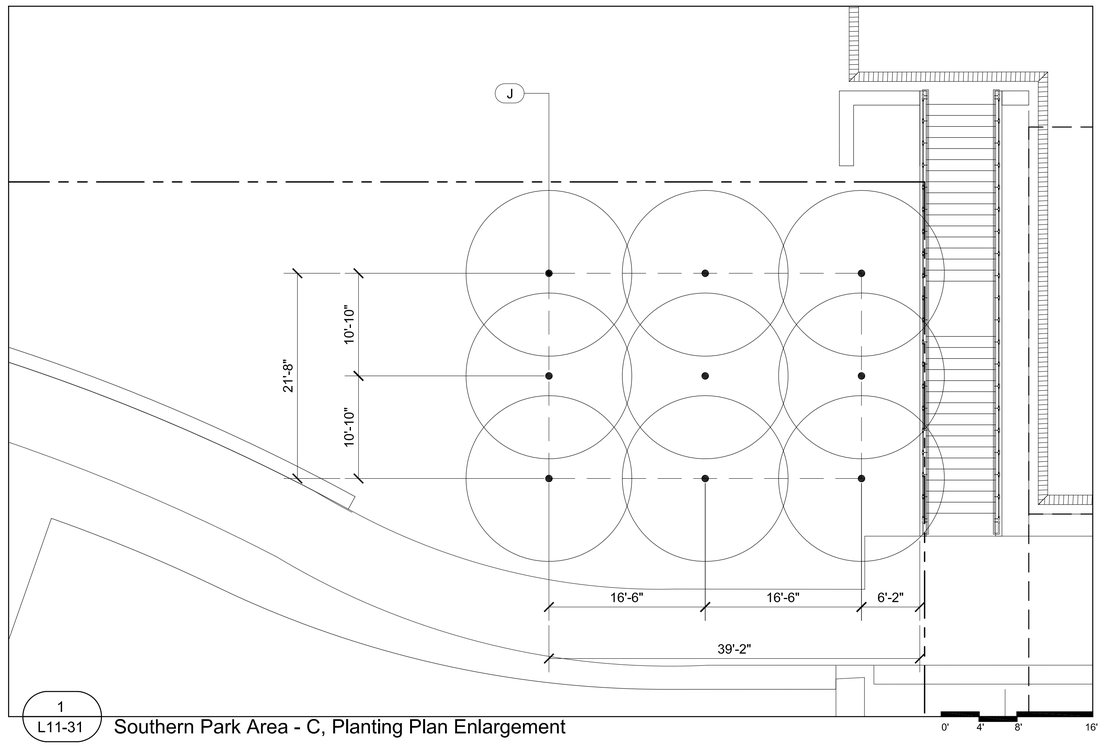
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-30

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PLANT QUANTITIES

(J) (9) Pond Cypress
Taxodium ascendens
4" cal, B&B.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



1
L11-31 Southern Park Area - C, Planting Plan Enlargement

PLANTING LEGEND

- (A) Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- (B) Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.
- (C) Live Oak
  Quercus virginiana
  4" cal, single trunk, container grown.
- (C1) Live Oak, 'High Rise'
  Quercus virginiana, 'QVTIA'
  4" cal, single trunk, container grown.
- (D) NOT USED.
- (E) NOT USED.
- (F) Red Oak
  Quercus texana
  4" cal, container grown.
- (G) Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- (H) Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- (I) Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- (J) Pond Cypress
  Taxodium ascendens
  4" cal, container grown,
- (K) Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- (L) Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- (M) River Birch
  Betula nigra
  12-14' ht,, 3-5 canes each, B&B.
- (AA) NOT USED.
- (BB) Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
- (CC) Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
- (CC-2) Natchez Crape Myrtle
  Lagerstroemia indica 'Natchez'
  10'-12' ht, multi trunk, 3-5 canes, grown for height.
- (DD) Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- (EE) Weeping Love Grass
  Eragrostis curvula
- (FF) Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- (GG) Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- (HH) Horsetail Reed
  Equisetum hyemale
  1 gal, plant 18" o.c.
- (II) Grass Mix for Hydromulch
  Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.
- (JJ) Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- (KK) Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
- (LL) Dwarf Chinese Holly
  Ilex cornuta 'Rotunda'
  15 gal., 3' ht., 36" o.c.
- (MM) Creeping Fig
  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- (NN) Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

SOUTHERN PARK AREA C - PLANTING PLAN ENLARGEMENT

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009	PW # 2009-04	L11-31

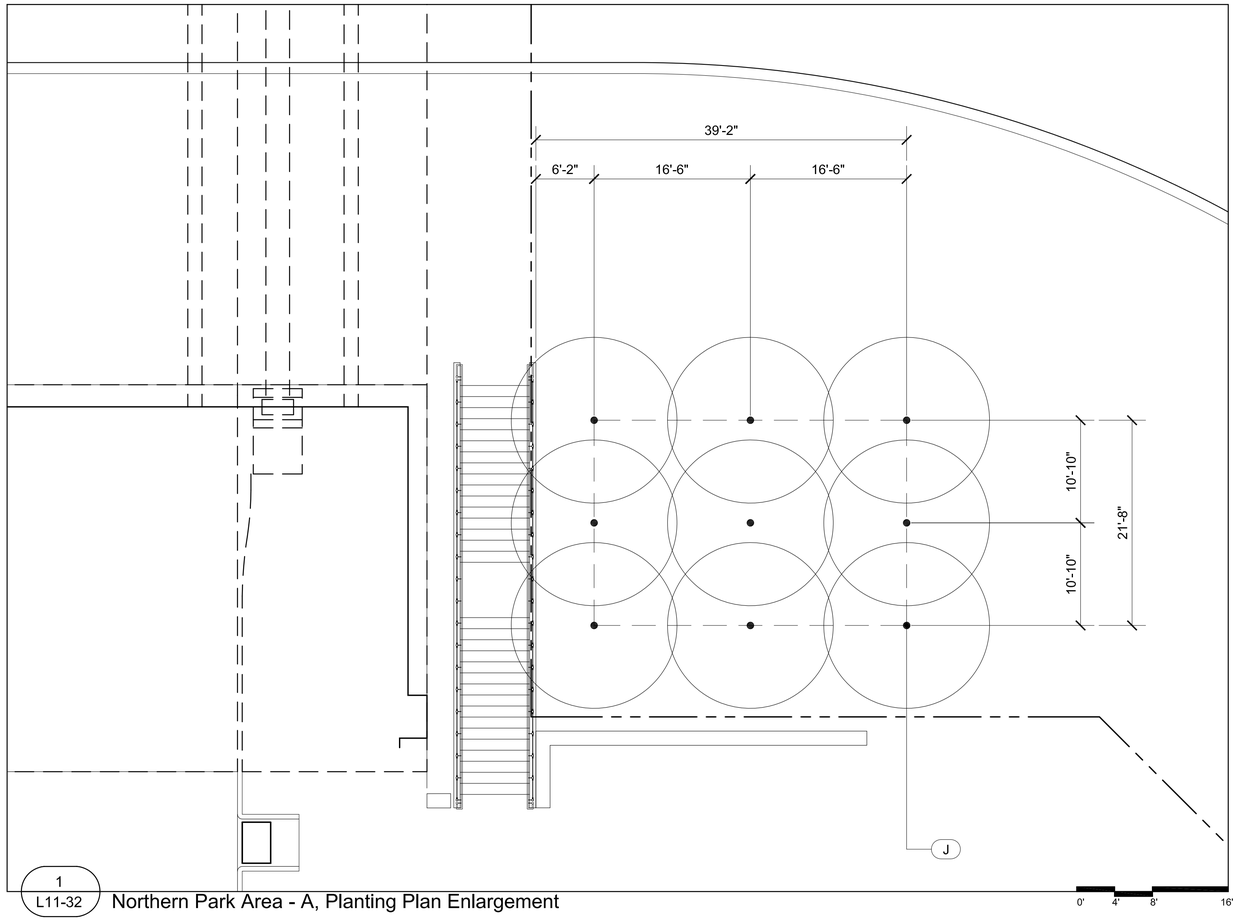
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PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PLANT QUANTITIES

(J) (9) Pond Cypress
Taxodium ascendens
4" cal, B&B.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



1
L11-32 Northern Park Area - A, Planting Plan Enlargement

PLANTING LEGEND

(A) Existing Tree to remain
Reference specifications for existing tree protection and treatment.

(B) Preserved Live Oak
Quercus virginiana
On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.

(C) Live Oak
Quercus virginiana
4" cal, single trunk, container grown.

(C1) Live Oak, 'High Rise'
Quercus virginiana, 'QVTIA'
4" cal, single trunk, container grown.

(D) NOT USED.

(E) NOT USED.

(F) Red Oak
Quercus texana
4" cal, container grown.

(G) Shumard Oak
Quercus shumardii
4" cal, container grown.

(H) Chinkapin Oak
Quercus muhlenbergii
4" cal, container grown.

(I) Bald Cypress
Taxodium distichum
4" cal, container grown.

(J) Pond Cypress
Taxodium ascendens
4" cal, container grown,

(K) Texas Ash
Fraxinus texensis
4" cal, container grown.

(L) Lacebark Elm
Ulmus parvifolia
4" caliper, container grown.

(M) River Birch
Betula nigra
12-14' ht,, 3-5 canes each, B&B.

(AA) NOT USED.

(BB) Savannah Holly
Ilex opaca x attenuata 'Savannah'
4" cal, single trunk, 12' ht, tree form, container grown.

(CC) Natchez Crape Myrtle
Lagerstroemia indica 'Natchez'
12'-14' ht, multi trunk, 3-5 canes, grown for height.

(CC-2) Natchez Crape Myrtle
Lagerstroemia indica 'Natchez'
10'-12' ht, multi trunk, 3-5 canes, grown for height.

(DD) Oklahoma Redbud
Cercis canadensis 'Oklahoma'
3"-3 ½" cal, 8' ht, container grown

(EE) Weeping Love Grass
Eragrostis curvula

(FF) Vitex
Vitex agnus-castus
65 gal, 10' ht, container, grown for height.

(GG) Asian Jasmine
Trachelospermum asiaticum
1 gal, plant 18" o.c.

(HH) Horsetail Reed
Equisetum hyemale
1 gal, plant 18" o.c.

(II) Grass Mix for Hydromulch
Reference specifications for percentage of each seed for mixture: 1. Sideoats Grama, *Bouteloua curtipendula*; 2. Inland Sea Oats, *Chasmanthium latifolium*; 3. Prairie Wild Rye, *Elymus canadensis*; 4. Purple Top, *Tridens flavus*; 5. Virginia Wild Rye, *Elymus virginicus*; 6. Plains Bristlegrass, *Setaria vulpiseta*.

(JJ) Midiron Bermuda
Cynodon dactylon 'Midiron'
sod, pinned on slopes greater than 6:1.

(KK) Harbor Dwarf Nandina
Nandina domestica 'Harbor Dwarf'
15 gal., 3' ht., 36" o.c.

(LL) Dwarf Chinese Holly
Ilex cornuta 'Rotunda'
15 gal., 3' ht., 36" o.c.

(MM) Creeping Fig
Ficus Pumila
1 gal., staggered 18"-24" o.c.

(NN) Mondo Grass
Ophiopogon japonicus
4" pot, max. 8" o.c., diamond pattern.

PLANTING NOTES

1. ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.
2. Any and all tree plantings shall not be planted less than five feet (clear) to the back of the pond edge walls.
3. See planting detail (1/L1-22) for special staking detail for tree plantings located on the islands.
4. Civil information for reference only. Verify actual location of utilities with civil drawings.
5. All undimensioned trees for contractor to stake.
6. Contractor to provide aeration, pruning, and fertilization of preserved live oaks by an ISA certified arborist prior to construction around the trees.
7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W. SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

NORTHERN PARK AREA A - PLANTING PLAN ENLARGEMENT

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

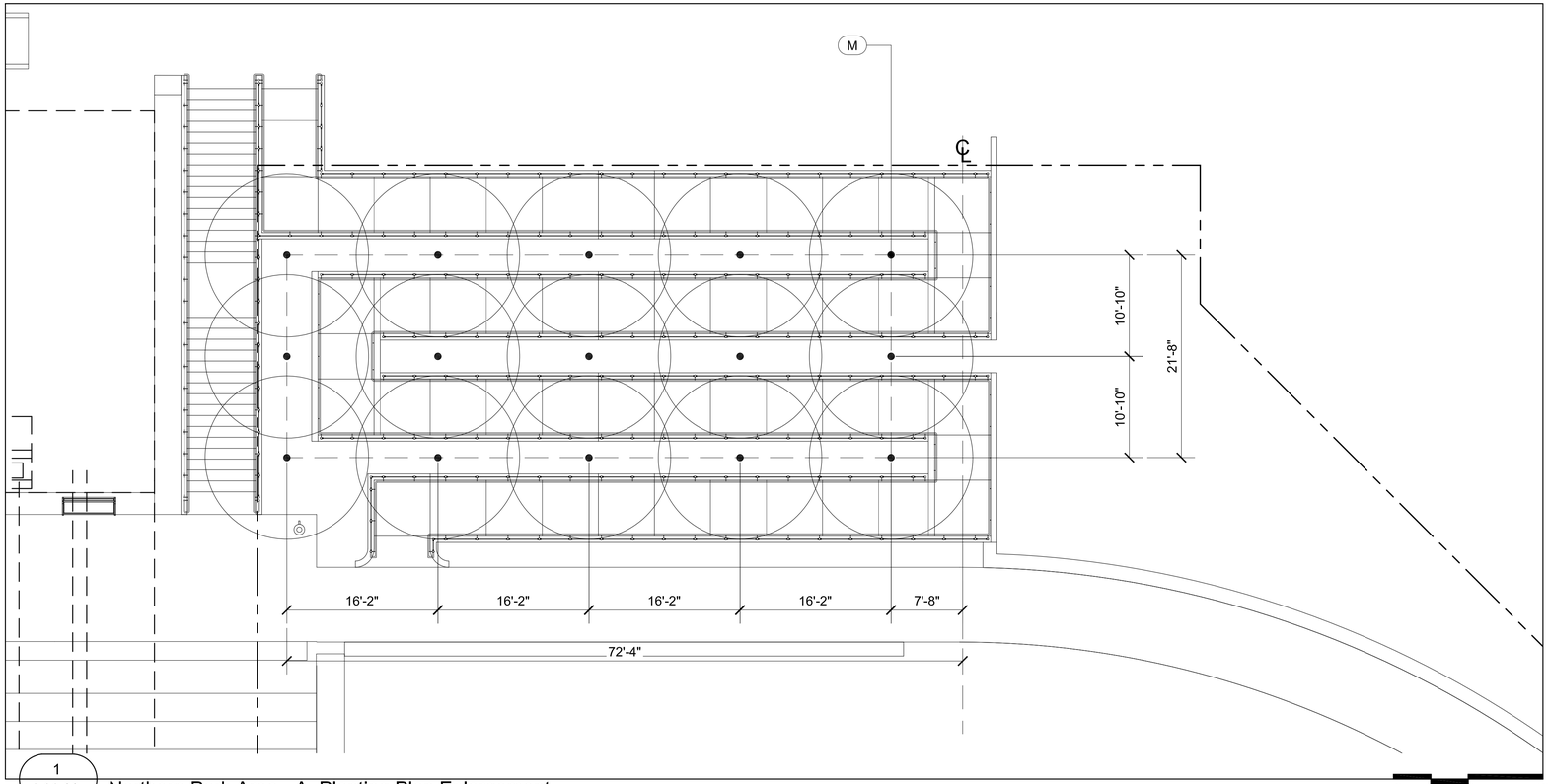
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-32

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

PLANT QUANTITIES

(M) (15) River Birch
Betula nigra
12-14' ht., 3-5 canes, B&B.

NOTE: ALL tree locations that are shown shall be staked by the Landscape Contractor and the locations of the stakes approved in writing by the town of Addison and Landscape Architect, prior to any tree planting.



1
L11-33 Northern Park Area - A, Planting Plan Enlargement

PLANTING LEGEND

- (A) Existing Tree to remain
  Reference specifications for existing tree protection and treatment.
- (B) Preserved Live Oak
  Quercus virginiana
  On-site, field dug specimen, requires 168" tree spade to move, LA to select and place. Ref. to "Tree Preservation Area Legend & Notes" (Inset on sheets L11-03, L11-04, L11-05 & L11-08) for number suffix.
- (C) Live Oak
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  Quercus virginiana, 'QVTIA'
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- (D) NOT USED.
- (E) NOT USED.
- (F) Red Oak
  Quercus texana
  4" cal, container grown.
- (G) Shumard Oak
  Quercus shumardii
  4" cal, container grown.
- (H) Chinkapin Oak
  Quercus muhlenbergii
  4" cal, container grown.
- (I) Bald Cypress
  Taxodium distichum
  4" cal, container grown.
- (J) Pond Cypress
  Taxodium ascendens
  4" cal, container grown,
- (K) Texas Ash
  Fraxinus texensis
  4" cal, container grown.
- (L) Lacebark Elm
  Ulmus parvifolia
  4" caliper, container grown.
- (M) River Birch
  Betula nigra
  12-14' ht,, 3-5 canes each, B&B.
- (AA) NOT USED.
- (BB) Savannah Holly
  Ilex opaca x attenuata 'Savannah'
  4" cal, single trunk, 12' ht, tree form, container grown.
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  Lagerstroemia indica 'Natchez'
  12'-14' ht, multi trunk, 3-5 canes, grown for height.
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- (DD) Oklahoma Redbud
  Cercis canadensis 'Oklahoma'
  3"-3 ½" cal, 8' ht, container grown
- (EE) Weeping Love Grass
  Eragrostis curvula
- (FF) Vitex
  Vitex agnus-castus
  65 gal, 10' ht, container, grown for height.
- (GG) Asian Jasmine
  Trachelospermum asiaticum
  1 gal, plant 18" o.c.
- (HH) Horsetail Reed
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- (JJ) Midiron Bermuda
  Cynodon dactylon 'Midiron'
  sod, pinned on slopes greater than 6:1.
- (KK) Harbor Dwarf Nandina
  Nandina domestica 'Harbor Dwarf'
  15 gal., 3' ht., 36" o.c.
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  Ficus Pumila
  1 gal., staggered 18"-24" o.c.
- (NN) Mondo Grass
  Ophiopogon japonicus
  4" pot, max. 8" o.c., diamond pattern.

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7. Landscape contractor's scope of work to begin at finished grade minus 4".

REGISTERED LANDSCAPE ARCHITECT
KEVIN W SLOAN
2296
STATE OF TEXAS

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

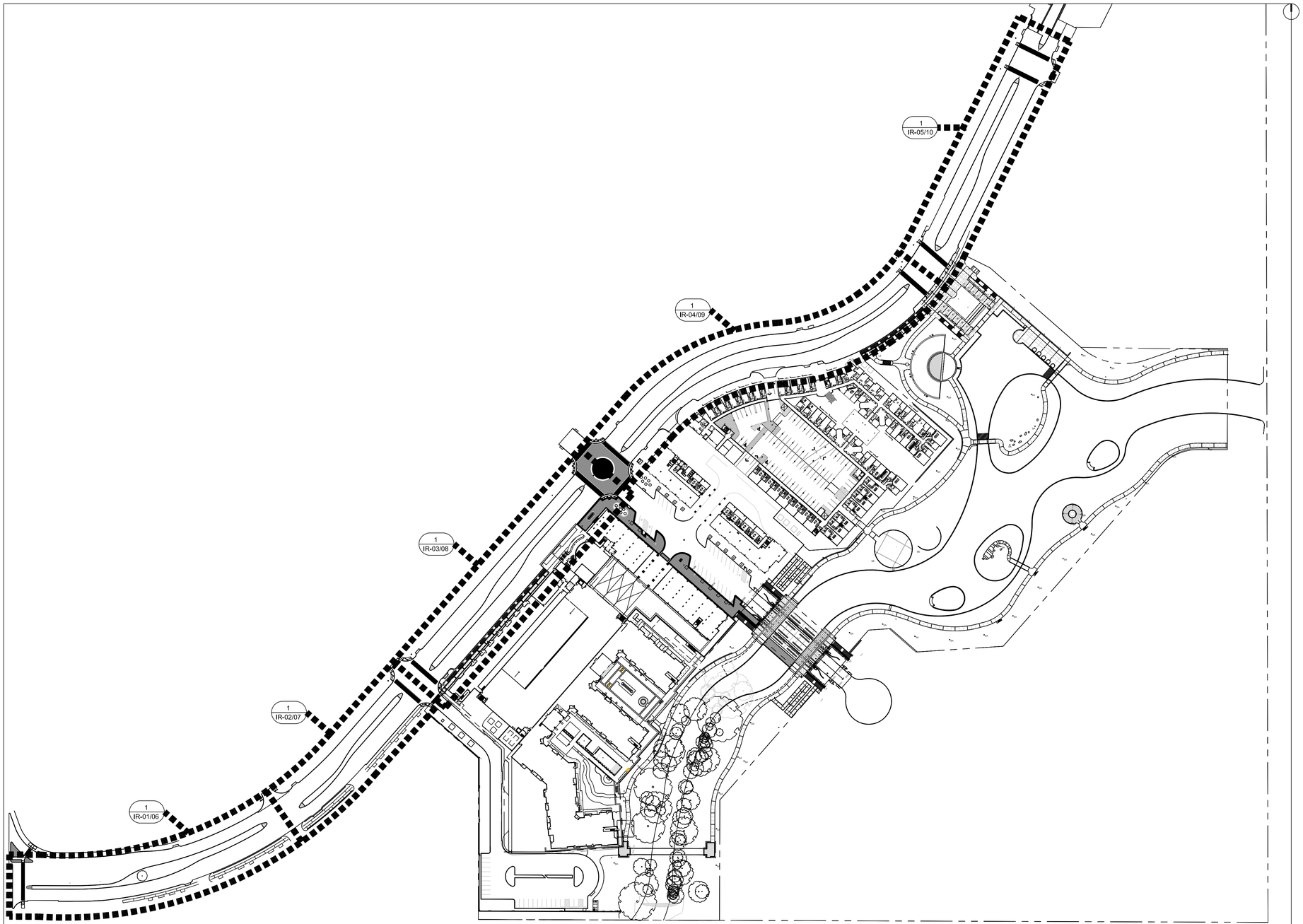
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

NORTHERN PARK AREA A - PLANTING PLAN ENLARGEMENT

KEVIN SLOAN STUDIO
4145 Travis, Suite 105
Dallas, Texas 75204 (214) 379-1061

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	KWS	JP	NOV 03, 2009 BID	PW # 2009-04	L11-33

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK



1
IR-00
Streetscape & Infrastructure Irrigation Plan Cover Sheet

0' 50' 100' 200'

Irrigation in Texas is regulated by the Texas Commission of Environmental Quality (TCEQ), MC-178, P.O. Box 13087, Austin, Texas, 78711-3087. TCEQ website is: www.tceq.state.tx.us

IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
●	LAWN SPRAY HEAD	RAINBIRD (30 PSI)	1804 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊘	HIGH-POP SPRAY HEAD	RAINBIRD (30 PSI)	180 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	1804 W/ HUNTER PCH-10 NOZZLE UNLESS OTHERWISE NOTED
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	1804 W/ HUNTER PCH-10 NOZZLE UNLESS OTHERWISE NOTED
■	LAWN CENTER STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ 8566TT NOZZLE
□	LAWN END STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ 8RCS OR 8LCS NOZZLE
■	HIGH-POP CENTER STRIP HEAD	RAINBIRD (30 PSI)	180 W/ 8566TT NOZZLE
◘	HIGH-POP END STRIP HEAD	RAINBIRD (30 PSI)	180 W/ 8RCS OR 8LCS NOZZLE
⊕	6"ALL ROTARY	HUNTER (40 PSI)	PGJ-4 W/ 13 NOZZLE
◑	6"ALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ 9.0 NOZZLE
◉	6"ALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ 9.0 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ 14.0 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ 15.0 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ 14.0 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40PSI)	I-20-12 W/ 15.0 NOZZLE
▲	QUICK COUPLING VALVE	BUCHER	"VQTS-ONP WITH SPEARS BALL VALVE, PURPLE LID READS "NON-POTABLE, NOT SAFE FOR DRINKING" IN ENGLISH AND SPANISH.
▣	REMOTE CONTROL VALVE	IRRITROL	2400 OPEN RBG WITH SPEARS BALL VALVE. REFER TO PLANS FOR SIZE
⊘	BALL VALVE	SPEARS	COMPACT "T-HANDLE"- LINE SIZE
⊗	GATE VALVE	MATCO	"200T SERIES - LINE SIZE
▬	CONTROLLER	RAINMASTER	EVOLUTION DX-2 SERIES WITH TWO-WIRE RAIN/FREEZE SENSOR
— —	MAINLINE PIPING	REFER TO SPEC.	4" AND LARGER - CLASS 200 PVC-GASKET JOINTS 3" AND 2-1/2" - CLASS 200 PVC-SCH.40/SHT WELD JOINTS 2" AND SMALLER - SCHEDULE 40 PVC-SCH.40/SHT WELD JOINTS
———	LATERAL PIPING	REFER TO SPEC.	3/4" + LARGER - CLASS 200 PVC 1/2" - CLASS 315 PVC
———	DISTRIBUTION TUBING	NETAFIM	POLYETHYLENE TUBING W TLSS 6OIL STAPLES
⊠	REMOTE CONTROL DRIP VALVE	NETAFIM	9 VICONTROL-HP LOW VOLUME CONTROL ZONE KIT W/ BALL VALVE. REFER TO PLAN FOR LOCATION
⋮⋮⋮	PLANTING BED TECHLINE TUBING	NETAFIM	TLCVS-12 WITH TECHLINE BARBED FITTINGS, TLSS 6OIL STAPLES, AND 18"-P-01 TECHLINE FLAGS
NN	BACKFLOW PREVENTER	WATTS	"009QT SERIES, REFER TO PLANS FOR SIZE
Ⓜ	WATER METER	REFER TO SPEC.	PER LOCAL BUILDING CODE
Ⓘ	ISOLATION VALVE	NIBCO	T-113 SERIES, REFER TO PLANS FOR SIZE
Ⓨ	Y-FILTER	FEBCO	"600 SERIES, REFER TO PLANS FOR SIZE
Ⓕ	FLOW METER	DATA INDUSTRIAL	"FS-P SERIES, REFER TO PLANS FOR SIZE
Ⓜ	MASTER VALVE	IRRITROL	2400 SERIES, REFER TO PLAN FOR SIZE
☰	STATION NUMBER VALVE SIZE GPM (APPROX.)		

STATE OF TEXAS
SETH A. HEIDMAN
5881
LICENSED IRRIGATOR
11-3-09

ISSUE FOR BID

IRRI-TECH LLC

Irrigation Consultant SETH HEIDMAN
Lic. No. 5881 Date 11/03/09
BID

NO.	REVISION	BY	DATE

Addison! *TOWN OF ADDISON*
DALLAS COUNTY, TEXAS

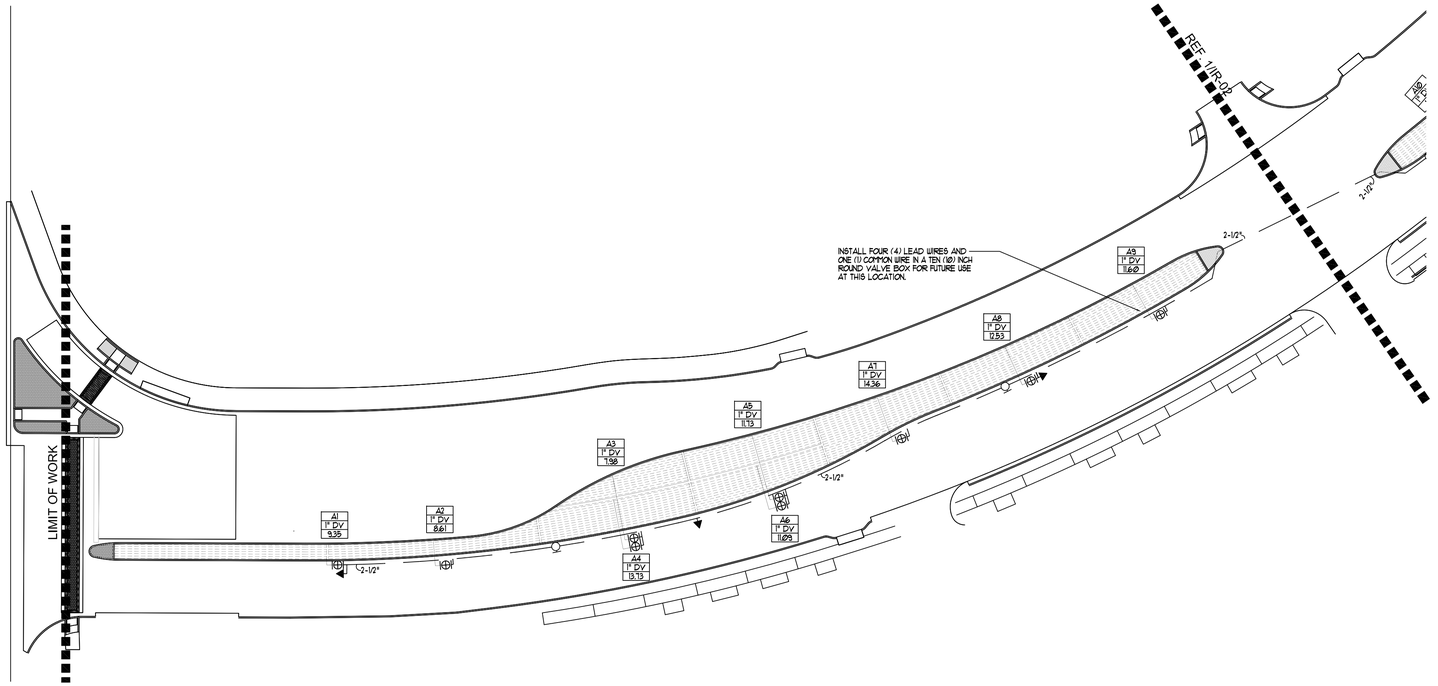
PARK IMPROVEMENTS
VITRUVIAN PARK

STREETSCAPE & INFRASTRUCTURE IRRIGATION PLAN COVER SHEET

IRRI*TECH LLC.
Irrigation Technology
12650 Schroeder Rd.
Dallas, Texas 75243
IT Job No. 08352
(972) 231-5151

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	SAH	ASH	NOV 03 2009	PW # 2009-04	IR-00

PARK IMPROVEMENTS



SHEET NOTES:
1. REFERENCE IR-06 FOR TREE IRRIGATION.
2. MAINLINE , LATERAL LINES, AND VALVES ARE SHOWN IN STREET FOR CLARITY.

1
IR-01 Vitruvian Way, Irrigation Plan

0' 15' 30' 60'

Irrigation in Texas is regulated by the Texas Commission of Environmental Quality (TCEQ), MC-178, P.O. Box 13087, Austin, Texas, 78711-3087. TCEQ website is: www.tceq.state.tx.us

IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
●	LAWN SPRAY HEAD	RAINBIRD (30 PSI)	1804 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊘	HIGH-POP SPRAY HEAD	RAINBIRD (30 PSI)	180 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	*1804 W/ HUNTER PCH-10 NOZZLE UNLESS OTHERWISE NOTED
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	*1804 W/ HUNTER PCH-10 NOZZLE UNLESS OTHERWISE NOTED
■	LAWN CENTER STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ *5806TT NOZZLE
□	LAWN END STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ *5806 OR *5LC6 NOZZLE
■	HIGH-POP CENTER STRIP HEAD	RAINBIRD (30 PSI)	180 W/ *5806TT NOZZLE
◘	HIGH-POP END STRIP HEAD	RAINBIRD (30 PSI)	180 W/ *5806 OR *5LC6 NOZZLE
⊕	6"ALL ROTARY	HUNTER (40 PSI)	PGJ-4 W/ 9.5 NOZZLE
◑	6"ALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ 9.0 NOZZLE
◉	6"ALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ 9.0 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ 14.0 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ 15.0 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ 14.0 NOZZLE
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▲	QUICK COUPLING VALVE	BUCKNER	*VQT3-CNP WITH SPEARS BALL VALVE. PURPLE LID READS "NON-POTABLE, NOT SAFE FOR DRINKING" IN ENGLISH AND SPANISH.
⊠	REMOTE CONTROL VALVE	IRRITROL	2000 OPEN REG WITH SPEARS BALL VALVE. REFER TO PLANS FOR SIZE
⊖	BALL VALVE	SPEARS	COMPACT "T-HANDLE"- LINE SIZE
⊗	GATE VALVE	MATCO	*GRIT SERIES - LINE SIZE
▬	CONTROLLER	RAINMASTER	EVOLUTION DX-2 SERIES WITH TWIN-CLIK RAIN/FREEZE SENSOR
— —	MAINLINE PIPING	REFER TO SPEC.	4" AND LARGER - CLASS 200 PVC-GASKET JOINTS 3" AND 2-1/2" - CLASS 200 PVC-SOLVENT WELD JOINTS 1" AND SMALLER - SCHEDULE 40 PVC-SOLVENT WELD JOINTS
———	LATERAL PIPING	REFER TO SPEC.	3/4" & LARGER - CLASS 200 PVC 1/2" - CLASS 315 PVC
———	DISTRIBUTION TUBING	NETAFIM	POLYETHYLENE TUBING W/ TLSS SOIL STAPLES
⊠	REMOTE CONTROL DRIP VALVE	NETAFIM	*_-VCDN075-HF LOW VOLUME CONTROL ZONE KIT W/ BALL VALVE. REFER TO PLAN FOR LOCATION
⋮⋮⋮	PLANTING BED TECH-LINE TUBING	NETAFIM	TLCV5-12 WITH TECH-LINE BARBED FITTINGS, TLSS SOIL STAPLES, AND 12-FT-PI TECH-LINE FLAGS
NN	BACKFLOW PREVENTER	WATTS	*009M2 SERIES, REFER TO PLANS FOR SIZE
Ⓜ	WATER METER	REFER TO SPEC.	PER LOCAL BUILDING CODE
Ⓘ	ISOLATION VALVE	NIBCO	*T-113 SERIES, REFER TO PLANS FOR SIZE
Ⓨ	Y/E STRAINER	FEBCO	*450 SERIES, REFER TO PLANS FOR SIZE
Ⓕ	FLOW METER	DATA INDUSTRIAL	*96-M SERIES, REFER TO PLANS FOR SIZE
Ⓜ	MASTER VALVE	IRRITROL	2000 SERIES, REFER TO PLAN FOR SIZE
▭	STATION NUMBER VALVE SIZE GPM (APPROX.)		

STATE OF TEXAS
SETH A. HEIDMAN
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LICENSED IRRIGATOR
11-3-09

ISSUE FOR BID

IRRI-TECH LLC

Irrigation Consultant SETH HEIDMAN
Lic. No. 5881 Date 11/03/09
BID

NO.	REVISION	BY	DATE

Addison! *TOWN OF ADDISON*
DALLAS COUNTY, TEXAS

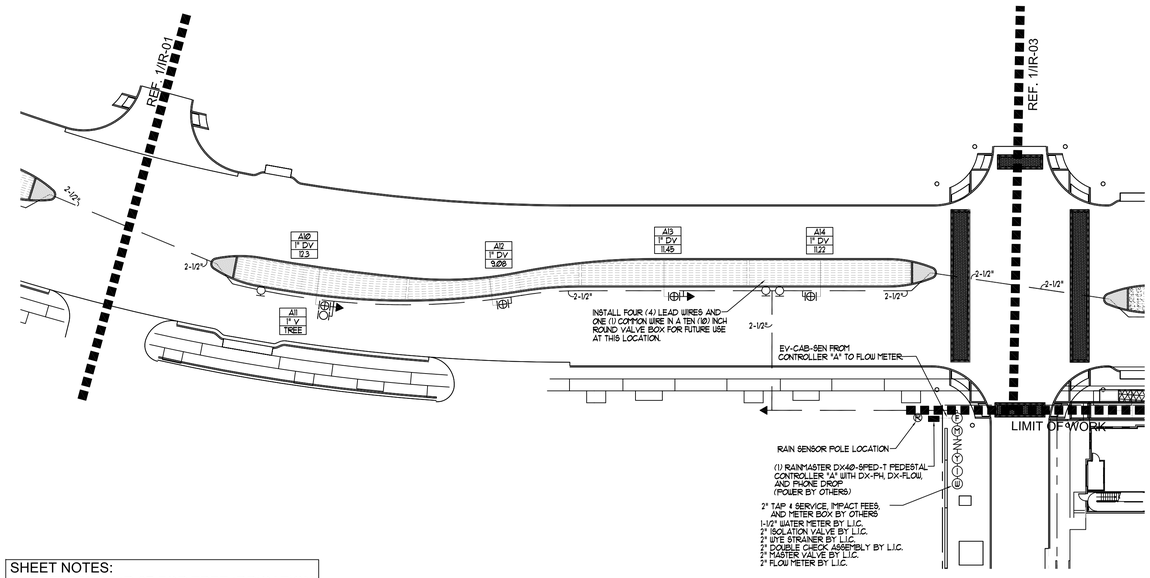
PARK IMPROVEMENTS
VITRUVIAN PARK

VITRUVIAN WAY, IRRIGATION PLAN

IRRI*TECH LLC.
Irrigation Technology
12650 Schroeder Rd.
Dallas, Texas 75243
IT Job No. 08352
(972) 231-5151

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	SAH	ASH	NOV 03 2009	PW # 2009-04	IR-01

PARK IMPROVEMENTS



SHEET NOTES:
1. REFERENCE IR-07 FOR TREE IRRIGATION.
2. MAINLINE , LATERAL LINES, AND VALVES ARE SHOWN IN STREET FOR CLARITY.

1
IR-02
Vitruvian Way, Irrigation Plan

0' 15' 30' 60'

Irrigation in Texas is regulated by the Texas Commission of Environmental Quality (TCEQ), MC-178, P.O. Box 13087, Austin, Texas, 78711-3087. TCEQ website is: www.tceq.state.tx.us

IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
●	LAWN SPRAY HEAD	RAINBIRD (30 PSI)	1804 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊘	HIGH-POP SPRAY HEAD	RAINBIRD (30 PSI)	180 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	1804 W/ HUNTER PCH-10 NOZZLE UNLESS OTHERWISE NOTED
◍	TREE BUBBLER HEAD	HUNTER (30 PSI)	1804 W/ HUNTER PCH-10 NOZZLE UNLESS OTHERWISE NOTED
■	LAWN CENTER STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ 1806TT NOZZLE
□	LAWN END STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ 1806CS OR 1806CS NOZZLE
◨	HIGH-POP CENTER STRIP HEAD	RAINBIRD (30 PSI)	180 W/ 1806TT NOZZLE
◧	HIGH-POP END STRIP HEAD	RAINBIRD (30 PSI)	180 W/ 1806CS OR 1806CS NOZZLE
⊕	6"ALL ROTARY	HUNTER (40 PSI)	PGJ-4 W/ 9.5 NOZZLE
◑	6"ALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ 9.0 NOZZLE
◉	6"ALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ 9.0 NOZZLE
ⓘ	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ 14.0 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ 15.0 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ 14.0 NOZZLE
◉	ROTARY FULL-CIRCLE	HUNTER (40PSI)	I-20-12 W/ 15.0 NOZZLE
▲	QUICK COUPLING VALVE	BUCKNER	"VQTS-CNP WITH SPEARS BALL VALVE, PURPLE LID READS "NON-POTABLE, NOT SAFE FOR DRINKING" IN ENGLISH AND SPANISH.
⊠	REMOTE CONTROL VALVE	IRRITROL	2000 OPEN REG WITH SPEARS BALL VALVE, REFER TO PLANS FOR SIZE
⊘	BALL VALVE	SPEARS	COMPACT "T-HANDLE"- LINE SIZE
⊗	GATE VALVE	MATCO	"GRT SERIES - LINE SIZE
▬	CONTROLLER	RAINMASTER	EVOLUTION DX-2 SERIES WITH TWO-WIRE RAIN/FREEZE SENSOR
— —	MAINLINE PIPING	REFER TO SPEC.	4" AND LARGER - CLASS 200 PVC-GASKET JOINTS 3" AND 2-1/2" - CLASS 200 PVC-SOLVENT WELD JOINTS 1" AND SMALLER - SCHEDULE 40 PVC-SOLVENT WELD JOINTS
———	LATERAL PIPING	REFER TO SPEC.	3/4" & LARGER - CLASS 200 PVC 1/2" - CLASS 315 PVC
———	DISTRIBUTION TUBING	NETAFIM	POLYETHYLENE TUBING W/ TLS6 SOIL STAPLES
⊠	REMOTE CONTROL DRIP VALVE	NETAFIM	9 VC/DM7S-HP LOW VOLUME CONTROL ZONE KIT W/ BALL VALVE, REFER TO PLAN FOR LOCATION
⋮⋮⋮	PLANTING BED TECHLINE TUBING	NETAFIM	TLCVS-12 WITH TECHLINE BARBED FITTINGS, TLS6 SOIL STAPLES, AND 1P-F-PI TECHLINE FLAGS
NN	BACKFLOW PREVENTER	WATTS	*DCPI SERIES, REFER TO PLANS FOR SIZE
Ⓜ	WATER METER	REFER TO SPEC.	PER LOCAL BUILDING CODE
①	ISOLATION VALVE	NIBCO	*T-113 SERIES, REFER TO PLANS FOR SIZE
Ⓨ	WYE STRAINER	FEBCO	*405 SERIES, REFER TO PLANS FOR SIZE
Ⓕ	FLOW METER	DATA INDUSTRIAL	*FS-P SERIES, REFER TO PLANS FOR SIZE
Ⓜ	MASTER VALVE	IRRITROL	2000 SERIES, REFER TO PLAN FOR SIZE
▭	STATION NUMBER VALVE SIZE GPM (APPROX.)		

STATE OF TEXAS
SETH A. HEIDMAN
5881
LICENSED IRRIGATOR
11-3-09

ISSUE FOR BID

IRRI-TECH LLC

Irrigation Consultant SETH HEIDMAN
Lic. No. 5881 Date 11/03/09
BID

NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

VITRUVIAN WAY, IRRIGATION PLAN

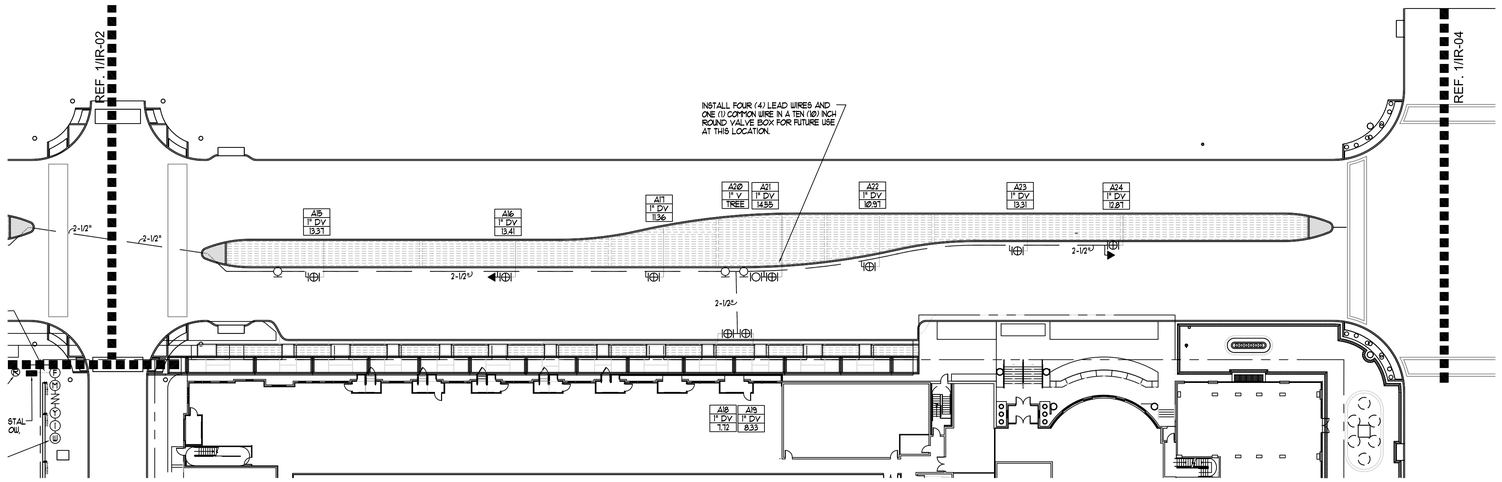
IRRI*TECH LLC.
Irrigation Technology

12650 Schroeder Rd.
Dallas, Texas 75243

IT Job No. 08352
(972) 231-5151

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	SAH	ASH	NOV 03 2009	PW # 2009-04	IR-02

PARK IMPROVEMENTS



SHEET NOTES:
1. REFERENCE IR-08 FOR TREE IRRIGATION.
2. MAINLINE , LATERAL LINES, AND VALVES ARE SHOWN IN STREET FOR CLARITY.

1
IR-03
Vitruvian Way, Irrigation Plan

0' 15' 30' 60'

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IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
●	LAWN SPRAY HEAD	RAINBIRD (30 PSI)	1804 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊘	HIGH-POP SPRAY HEAD	RAINBIRD (30 PSI)	180 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	*1804 W/ HUNTER PCH-10 NOZZLE UNLESS OTHERWISE NOTED
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	*1804 W/ HUNTER PCH-10 NOZZLE UNLESS OTHERWISE NOTED
■	LAWN CENTER STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ *5667T NOZZLE
□	LAWN END STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ *5RCS OR *5LCS NOZZLE
■	HIGH-POP CENTER STRIP HEAD	RAINBIRD (30 PSI)	180 W/ *5667T NOZZLE
▣	HIGH-POP END STRIP HEAD	RAINBIRD (30 PSI)	180 W/ *5RCS OR *5LCS NOZZLE
⊕	SMALL ROTARY	HUNTER (40 PSI)	PGJ-4 W/ *3.5 NOZZLE
◑	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ *3.0 NOZZLE
◉	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ *3.0 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ *4.0 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ *5.0 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ *4.0 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40PSI)	I-20-12 W/ *5.0 NOZZLE
▲	QUICK COUPLING VALVE	BUCKNER	*VQT3-CNP WITH SPEARS BALL VALVE, PURPLE LID READS "NON-POTABLE, NOT SAFE FOR DRINKING" IN ENGLISH AND SPANISH.
⊠	REMOTE CONTROL VALVE	IRRITROL	2000 OPEN RBC WITH SPEARS BALL VALVE. REFER TO PLANS FOR SIZE
⊙	BALL VALVE	SPEARS	COMPACT "T-HANDLE"- LINE SIZE
⊙	GATE VALVE	MATCO	*ORIT SERIES - LINE SIZE
▬	CONTROLLER	RAINMASTER	EVOLUTION DX-2 SERIES WITH SYNCLINK, RAIN/FREEZE SENSOR
— —	MAINLINE PIPING	REFER TO SPEC.	4" AND LARGER - CLASS 200 PVC-GASKET JOINTS 3" AND 2-1/2" - CLASS 200 PVC-SCH.40 SOLVENT WELD JOINTS 1" AND SMALLER - SCHEDULE 40 PVC-SCH.40 SOLVENT WELD JOINTS
———	LATERAL PIPING	REFER TO SPEC.	3/4" & LARGER - CLASS 200 PVC 1/2" - CLASS 315 PVC
———	DISTRIBUTION TUBING	NETAFIM	POLYETHYLENE TUBING W TLSS SOIL STAPLES
⊠	REMOTE CONTROL DRIP VALVE	NETAFIM	*_-VCDN075-HP LOW VOLUME CONTROL ZONE KIT W/ BALL VALVE. REFER TO PLAN FOR LOCATION
⋮⋮⋮	PLANTING BED TECH-LINE TUBING	NETAFIM	TLCVP-12 WITH TECH-LINE BARBED FITTINGS, TLSS SOIL STAPLES, AND 1/2"-FI TECH-LINE FLUSH.
NN	BACKFLOW PREVENTER	WATTS	*009QT SERIES, REFER TO PLANS FOR SIZE
Ⓜ	WATER METER	REFER TO SPEC.	PER LOCAL BUILDING CODE
ⓘ	ISOLATION VALVE	NIBCO	*T-113 SERIES, REFER TO PLANS FOR SIZE
Ⓨ	Y/E STRAINER	FEBCO	*450 SERIES, REFER TO PLANS FOR SIZE
Ⓕ	FLOW METER	DATA INDUSTRIAL	*FS-P SERIES, REFER TO PLANS FOR SIZE
Ⓜ	MASTER VALVE	IRRITROL	2000 SERIES, REFER TO PLAN FOR SIZE
☰	STATION NUMBER VALVE SIZE GPM (APPROX.)		

STATE OF TEXAS
SETH A. HEIDMAN
5881
LICENSED IRRIGATOR
11-3-09

ISSUE FOR BID

IRRI-TECH LLC

Irrigation Consultant SETH HEIDMAN
Lic. No. 5881 *Date* 11/03/09
BID

NO.	REVISION	BY	DATE

Addison! *TOWN OF ADDISON*
DALLAS COUNTY, TEXAS

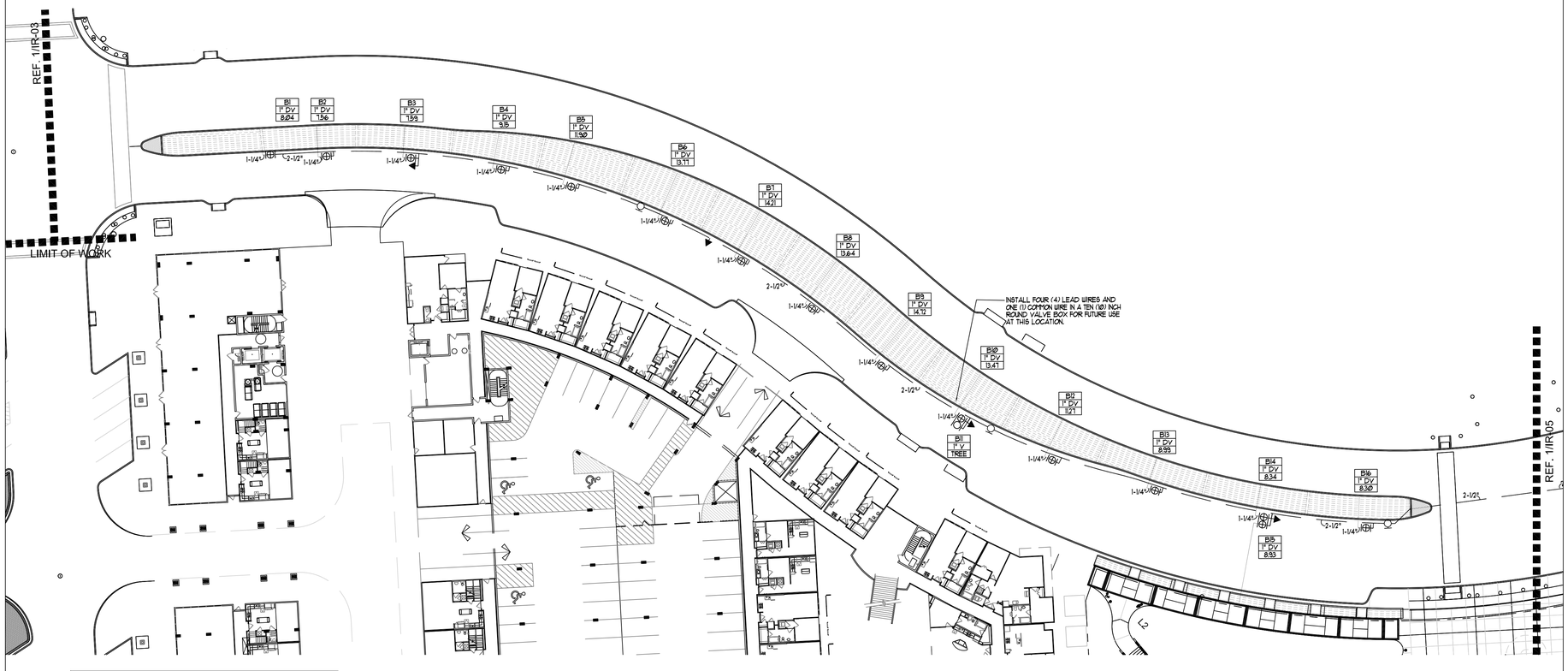
PARK IMPROVEMENTS
VITRUVIAN PARK

VITRUVIAN WAY, IRRIGATION PLAN

IRRI*TECH LLC.
Irrigation Technology
12650 Schroeder Rd.
Dallas, Texas 75243
IT Job No. 08352
(972) 231-5151

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	SAH	ASH	NOV 03 2009	PW # 2009-04	IR-03

PARK IMPROVEMENTS



SHEET NOTES:
1. REFERENCE IR-09 FOR TREE IRRIGATION.
2. MAINLINE , LATERAL LINES, AND VALVES ARE SHOWN IN STREET FOR CLARITY.

1
IR-04
Vitruvian Way, Irrigation Plan

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IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
●	LAWN SPRAY HEAD	RAINBIRD (30 PSI)	1804 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊘	HIGH-POP SPRAY HEAD	RAINBIRD (30 PSI)	180 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	1804 W/ HUNTER PCH-10 NOZZLE UNLESS OTHERWISE NOTED
◍	TREE BUBBLER HEAD	HUNTER (30 PSI)	1804 W/ HUNTER PCH-10 NOZZLE UNLESS OTHERWISE NOTED
■	LAWN CENTER STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ 1806TT NOZZLE
□	LAWN END STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ 18RCS OR 18LCS NOZZLE
◨	HIGH-POP CENTER STRIP HEAD	RAINBIRD (30 PSI)	180 W/ 1806TT NOZZLE
◧	HIGH-POP END STRIP HEAD	RAINBIRD (30 PSI)	180 W/ 18RCS OR 18LCS NOZZLE
⊕	SMALL ROTARY	HUNTER (40 PSI)	PGJ-4 W/ 53 NOZZLE
◑	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ 5.0 NOZZLE
◉	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-2 W/ 5.0 NOZZLE
ⓘ	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ 4.0 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ 8.0 NOZZLE
⊚	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-2 W/ 4.0 NOZZLE
◉	ROTARY FULL-CIRCLE	HUNTER (40PSI)	I-20-2 W/ 8.0 NOZZLE
▲	QUICK COUPLING VALVE	BUCKNER	"VQTS-ONP WITH SPEARS BALL VALVE. PURPLE LID READS 'NON-POTABLE, NOT SAFE FOR DRINKING" IN ENGLISH AND SPANISH.
▣	REMOTE CONTROL VALVE	IRRITROL	2000 OPEN RBC WITH SPEARS BALL VALVE. REFER TO PLANS FOR SIZE
⊘	BALL VALVE	SPEARS	COMPACT "T-HANDLE"- LINE SIZE
⊗	GATE VALVE	MATCO	"CRT SERIES - LINE SIZE
▬	CONTROLLER	RAINMASTER	EVOLUTION DX-2 SERIES WITH TYMCLIK RAIN/FREEZE SENSOR
—— ——	MAINLINE PIPING	REFER TO SPEC.	4" AND LARGER - CLASS 200 PVC-GASKET JOINTS 3" AND 2-1/2" - CLASS 200 PVC-SOLVENT WELD JOINTS 2" AND SMALLER - SCHEDULE 40 PVC-SOLVENT WELD JOINTS
————	LATERAL PIPING	REFER TO SPEC.	3/4" + LARGER - CLASS 200 PVC 1/2" - CLASS 315 PVC
————	DISTRIBUTION TUBING	NETAFIM	POLYETHYLENE TUBING W TLS6 SOIL STAPLES
⊠	REMOTE CONTROL DRIP VALVE	NETAFIM	9_VC200XTB-HP LOW VOLUME CONTROL ZONE KIT W/ BALL VALVE. REFER TO PLAN FOR LOCATION
⋮⋮⋮⋮	PLANTING BED TECHLINE TUBING	NETAFIM	TLCV9-12 WITH TECHLINE BARBED FITTING, TLS6 SOIL STAPLES, AND 18"-F-01 TECHLINE FLAGS
NN	BACKFLOW PREVENTER	WATTS	"009M2 SERIES, REFER TO PLANS FOR SIZE
Ⓜ	WATER METER	REFER TO SPEC.	PER LOCAL BUILDING CODE
Ⓘ	ISOLATION VALVE	NIBCO	"T-113 SERIES, REFER TO PLANS FOR SIZE
Ⓨ	Y-FE STRAINER	FEBCO	"350 SERIES, REFER TO PLANS FOR SIZE
Ⓕ	FLOW METER	DATA INDUSTRIAL	"FS-P SERIES, REFER TO PLANS FOR SIZE
Ⓜ	MASTER VALVE	IRRITROL	2000 SERIES, REFER TO PLAN FOR SIZE
▤	STATION NUMBER VALVE SIZE GPM (APPROX.)		

STATE OF TEXAS
SETH A. HEIDMAN
5881
LICENSED IRRIGATOR
11-3-09

ISSUE FOR BID

IRRI-TECH LLC
Irrigation Consultant SETH HEIDMAN
Lic. No. 5881 Date 11/03/09
BID

NO.	REVISION	BY	DATE

Addison
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DALLAS COUNTY, TEXAS

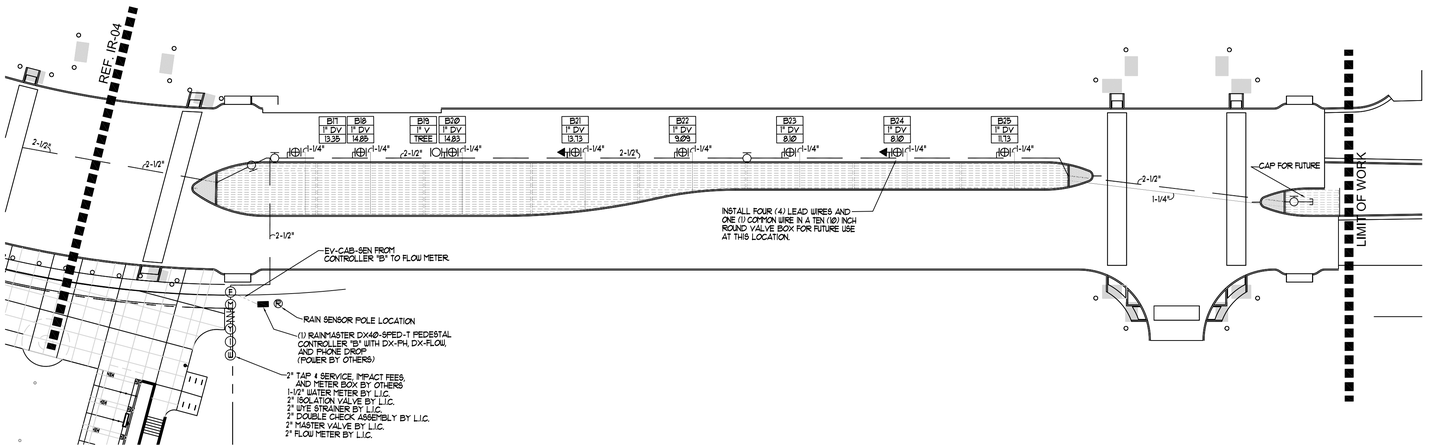
PARK IMPROVEMENTS
VITRUVIAN PARK

VITRUVIAN WAY, IRRIGATION PLAN

IRRI*TECH LLC.
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IT Job No. 08352
(972) 231-5151

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	SAH	ASH	NOV 03 2009	PW # 2009-04	IR-04

PARK IMPROVEMENTS



SHEET NOTES:
1. REFERENCE IR-10 FOR TREE IRRIGATION.
2. MAINLINE , LATERAL LINES, AND VALVES ARE SHOWN IN STREET FOR CLARITY.

1
IR-05
Vitruvian Way, Irrigation Plan

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IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
●	LAWN SPRAY HEAD	RAINBIRD (30 PSI)	1804 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊘	HIGH-POP SPRAY HEAD	RAINBIRD (30 PSI)	180 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	*1804 W/ HUNTER PCH-10 NOZZLE UNLESS OTHERWISE NOTED
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	*1804 W/ HUNTER PCH-10 NOZZLE UNLESS OTHERWISE NOTED
■	LAWN CENTER STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ *1806TT NOZZLE
□	LAWN END STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ *1806 OR *1LCS NOZZLE
■	HIGH-POP CENTER STRIP HEAD	RAINBIRD (30 PSI)	180 W/ *1806TT NOZZLE
□	HIGH-POP END STRIP HEAD	RAINBIRD (30 PSI)	180 W/ *1806 OR *1LCS NOZZLE
⊕	6"ALL ROTARY	HUNTER (40 PSI)	PGJ-4 W/ 5.5 NOZZLE
◑	6"ALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ *5.0 NOZZLE
◉	6"ALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ *5.0 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ *4.0 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ *5.0 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ *4.0 NOZZLE
●	ROTARY FULL-CIRCLE	HUNTER (40PSI)	I-20-12 W/ *5.0 NOZZLE
▲	QUICK COUPLING VALVE	BUCKNER	*VQTS-CNP WITH SPEARS BALL VALVE. PURPLE LID READS "NON-POTABLE, NOT SAFE FOR DRINKING" IN ENGLISH AND SPANISH.
⊠	REMOTE CONTROL VALVE	IRRITROL	2000 OPEN RBG WITH SPEARS BALL VALVE. REFER TO PLANS FOR SIZE
⊘	BALL VALVE	SPEARS	COMPACT "T-HANDLE"- LINE SIZE
⊗	GATE VALVE	MATCO	*GRT SERIES - LINE SIZE
▬	CONTROLLER	RAINMASTER	EVOLUTION DX-2 SERIES WITH TWO/8 RAIN/FREEZE SENSOR
—— ——	MAINLINE PIPING	REFER TO SPEC.	4" AND LARGER - CLASS 200 PVC-GASKET JOINTS 3" AND 2-1/2" - CLASS 200 PVC-SOLVENT WELD JOINTS 1" AND SMALLER - SCHEDULE 40 PVC-SOLVENT WELD JOINTS
————	LATERAL PIPING	REFER TO SPEC.	3/4" & LARGER - CLASS 200 PVC 1/2" - CLASS 315 PVC
————	DISTRIBUTION TUBING	NETAFIM	POLYETHYLENE TUBING W/ TLSS SOIL STAPLES
⊠	REMOTE CONTROL DRIP VALVE	NETAFIM	*_VC1ZNDTS-NP LOW VOLUME CONTROL ZONE KIT W/ BALL VALVE. REFER TO PLAN FOR LOCATION
	PLANTING BED TECH-LINE TUBING	NETAFIM	TLCVS-12 WITH TECH-LINE BARBED FITTINGS, TLSS SOIL STAPLES, AND 1/2"-P1 TECH-LINE FLAGS
NN	BACKFLOW PREVENTER	WATTS	*009M3 SERIES, REFER TO PLANS FOR SIZE
Ⓜ	WATER METER	REFER TO SPEC.	PER LOCAL BUILDING CODE
Ⓘ	ISOLATION VALVE	NIBCO	*T-113 SERIES, REFER TO PLANS FOR SIZE
Ⓨ	WYE STRAINER	FEBCO	*450 SERIES, REFER TO PLANS FOR SIZE
Ⓟ	FLOW METER	DATA INDUSTRIAL	*FS-P SERIES, REFER TO PLANS FOR SIZE
Ⓜ	MASTER VALVE	IRRITROL	2000 SERIES, REFER TO PLAN FOR SIZE
	STATION NUMBER VALVE SIZE GPM (APPROX.)		

STATE OF TEXAS
SETH A. HEIDMAN
5881
LICENSED IRRIGATOR
11-3-09

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IRRI-TECH LLC
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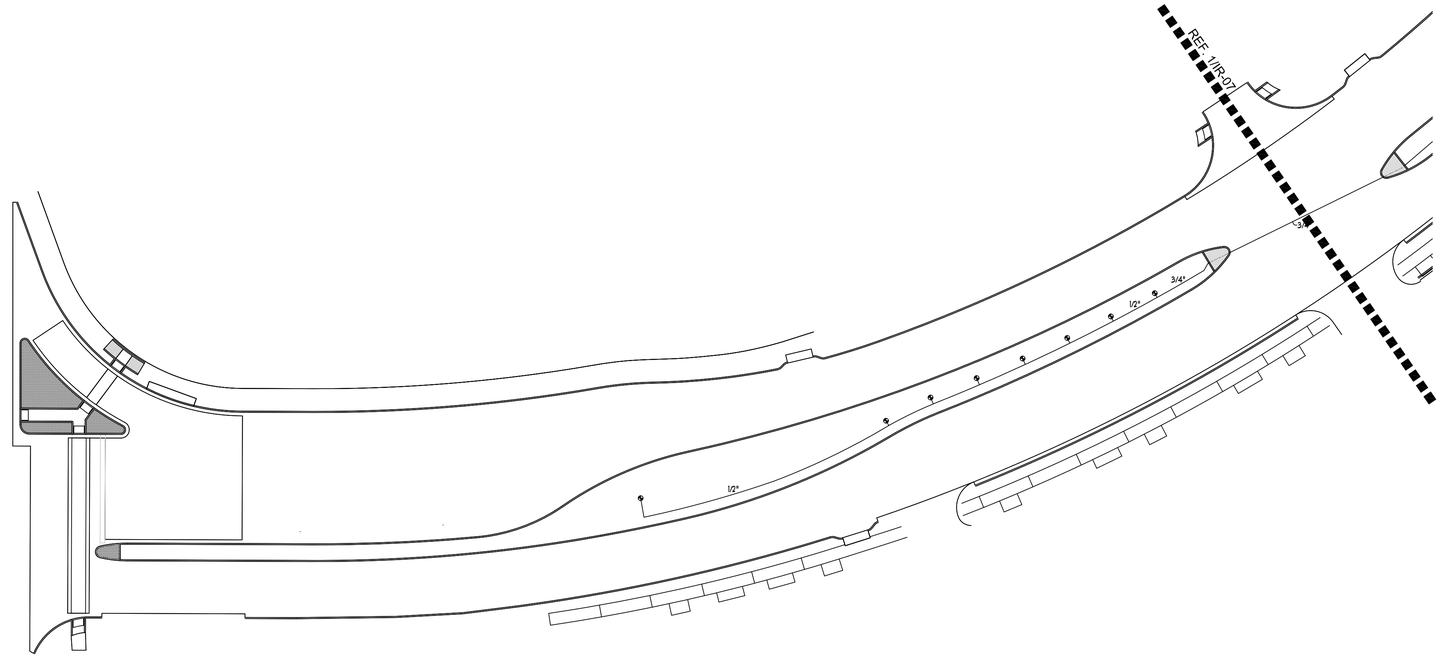
PARK IMPROVEMENTS
VITRUVIAN PARK

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PARK IMPROVEMENTS



SHEET NOTE:
1. MAINLINE , LATERAL LINES, AND VALVES ARE SHOWN IN STREET FOR CLARITY.

1
IR-06
Vitruvian Way, Irrigation Plan - Trees

0' 15' 30' 60'

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IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
●	LAWN SPRAY HEAD	RAINBIRD (30 PSI)	1804 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊘	HIGH-POP SPRAY HEAD	RAINBIRD (30 PSI)	1812 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	*1804 W/ HUNTER PCH-10 NOZZLE UNLESS OTHERWISE NOTED
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	*1804 W/ HUNTER PCH-10 NOZZLE UNLESS OTHERWISE NOTED
■	LAWN CENTER STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ *5555TT NOZZLE
□	LAWN END STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ *5RCS OR *5LCS NOZZLE
■	HIGH-POP CENTER STRIP HEAD	RAINBIRD (30 PSI)	1812 W/ *5555TT NOZZLE
◘	HIGH-POP END STRIP HEAD	RAINBIRD (30 PSI)	1812 W/ *5RCS OR *5LCS NOZZLE
⊕	6"ALL ROTARY	HUNTER (40 PSI)	PGJ-4 W/ *23 NOZZLE
◑	6"ALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ *LD NOZZLE
◉	6"ALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-2 W/ *LD NOZZLE
◑	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ *LD NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ *SD NOZZLE
◉	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-2 W/ *LD NOZZLE
◉	ROTARY FULL-CIRCLE	HUNTER (40PSI)	I-20-2 W/ *SD NOZZLE
▲	QUICK COUPLING VALVE	BUCKNER	*VQTS-CNP WITH SPEARS BALL VALVE, PURPLE LID READS "NON-POTABLE, NOT SAFE FOR DRINKING" IN ENGLISH AND SPANISH.
⊠	REMOTE CONTROL VALVE	IRRITROL	200DS OPEN RBG WITH SPEARS BALL VALVE. REFER TO PLANS FOR SIZE
⊘	BALL VALVE	SPEARS	COMPACT "T-HANDLE"- LINE SIZE
⊗	GATE VALVE	MATCO	*GRT SERIES - LINE SIZE
▬	CONTROLLER	RAINMASTER	EVOLUTION DX-2 SERIES WITH TWICLIK RAIN/FREEZE SENSOR
— —	MAINLINE PIPING	REFER TO SPEC.	4" AND LARGER - CLASS 200 PVC-GASKET JOINTS 3" AND 2-1/2" - CLASS 200 PVC-SOLVENT WELD JOINTS 1" AND SMALLER - SCHEDULE 40 PVC-SOLVENT WELD JOINTS
———	LATERAL PIPING	REFER TO SPEC.	3/4" & LARGER - CLASS 200 PVC 1/2" - CLASS 315 PVC
———	DISTRIBUTION TUBING	NETAFIM	POLYETHYLENE TUBING W TLSS SOIL STAPLES
KEY	REMOTE CONTROL DRIP VALVE	NETAFIM	*_VCDM070-HP LOW VOLUME CONTROL ZONE KIT W/ BALL VALVE. REFER TO PLAN FOR LOCATION
	PLANTING BED TECH-LINE TUBING	NETAFIM	TLCV5-12 WITH TECH-LINE BARBED FITTINGS, TLSS SOIL STAPLES, AND 12-1-01 TECH-LINE FLAGS
NN	BACKFLOW PREVENTER	WATTS	*009M2 SERIES, REFER TO PLANS FOR SIZE
M	WATER METER	REFER TO SPEC.	PER LOCAL BUILDING CODE
I	ISOLATION VALVE	NIBCO	*T-113 SERIES, REFER TO PLANS FOR SIZE
Y	Y/E STRAINER	FEBCO	*450 SERIES, REFER TO PLANS FOR SIZE
F	FLOW METER	DATA INDUSTRIAL	*FIS-P SERIES, REFER TO PLANS FOR SIZE
M	MASTER VALVE	IRRITROL	200DS SERIES, REFER TO PLAN FOR SIZE
	STATION NUMBER VALVE SIZE GPM (APPROX.)		

STATE OF TEXAS
SETH A. HEIDMAN
5881
LICENSED IRRIGATOR
11-3-09

ISSUE FOR BID

IRRI-TECH LLC

Irrigation Consultant SETH HEIDMAN
Lic. No. 5881 Date 11/03/09
BID

NO.	REVISION	BY	DATE

Addison! TOWN OF ADDISON
DALLAS COUNTY, TEXAS

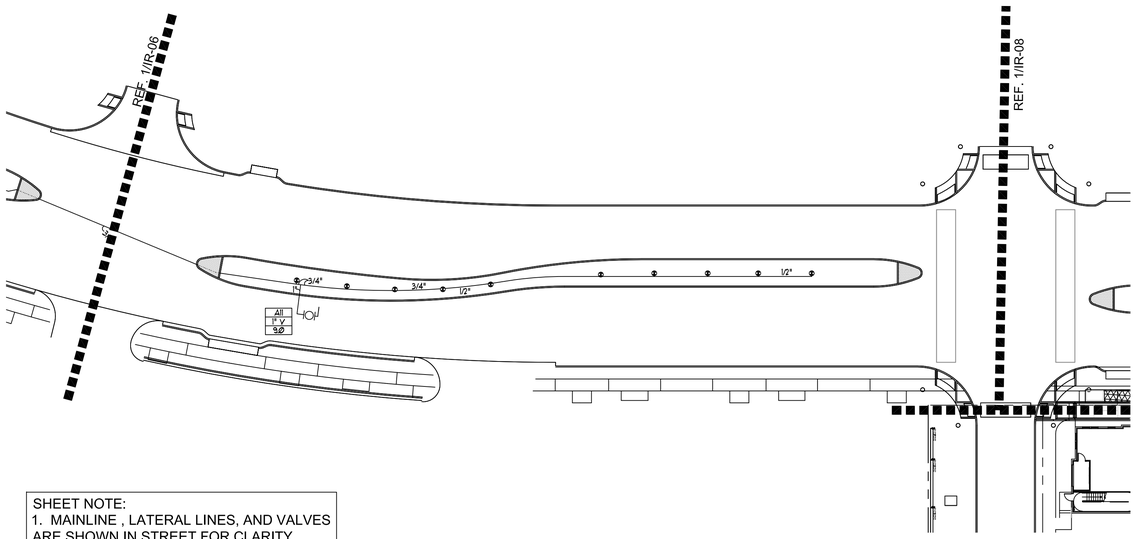
PARK IMPROVEMENTS
VITRUVIAN PARK

VITRUVIAN WAY, IRRIGATION PLAN-TREES

IRRI*TECH LLC.
Irrigation Technology
12650 Schroeder Rd.
Dallas, Texas 75243
IT Job No. 08352
(972) 231-5151

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	SAH	ASH	NOV 03 2009	PW # 2009-04	IR-06

PARK IMPROVEMENTS



SHEET NOTE:
1. MAINLINE , LATERAL LINES, AND VALVES ARE SHOWN IN STREET FOR CLARITY.

1
IR-07
Vitruvian Way, Irrigation Plan - Trees

0' 15' 30' 60'

Irrigation in Texas is regulated by the Texas Commission of Environmental Quality (TCEQ), MC-178, P.O. Box 13087, Austin, Texas, 78711-3087. TCEQ website is: www.tceq.state.tx.us

IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
●	LAWN SPRAY HEAD	RAINBIRD (30 PSI)	1804 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊘	HIGH-POP SPRAY HEAD	RAINBIRD (30 PSI)	180 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	*1804 W/ HUNTER PCH-10 NOZZLE UNLESS OTHERWISE NOTED
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	*1804 W/ HUNTER PCH-10 NOZZLE UNLESS OTHERWISE NOTED
■	LAWN CENTER STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ *5668T NOZZLE
□	LAWN END STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ *5RCS OR *5LCS NOZZLE
■	HIGH-POP CENTER STRIP HEAD	RAINBIRD (30 PSI)	180 W/ *5668TT NOZZLE
⊠	HIGH-POP END STRIP HEAD	RAINBIRD (30 PSI)	180 W/ *5RCS OR *5LCS NOZZLE
⊕	6"ALL ROTARY	HUNTER (40 PSI)	PGJ-4 W/ 5.5 NOZZLE
◑	6"ALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ 5.0 NOZZLE
◉	6"ALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ 5.0 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ 4.0 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ 5.0 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ 4.0 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40PSI)	I-20-12 W/ 5.0 NOZZLE
▲	QUICK COUPLING VALVE	BUCKNER	*VQT3-CNP WITH SPEARS BALL VALVE. PURPLE LID READS "NON-POTABLE, NOT SAFE FOR DRINKING" IN ENGLISH AND SPANISH.
⊠	REMOTE CONTROL VALVE	IRRITROL	2000 OPEN RBC WITH SPEARS BALL VALVE. REFER TO PLANS FOR SIZE
⊘	BALL VALVE	SPEARS	COMPACT "T-HANDLE"- LINE SIZE
⊗	GATE VALVE	MATCO	*GRT SERIES - LINE SIZE
▬	CONTROLLER	RAINMASTER	EVOLUTION DX-2 SERIES WITH TWACS-R, RAIN/FREEZE SENSOR
— —	MAINLINE PIPING	REFER TO SPEC.	4" AND LARGER - CLASS 200 PVC-GASKET JOINTS 3" AND 2-1/2" - CLASS 200 PVC-SOLVENT WELD JOINTS 2" AND SMALLER - SCHEDULE 40 PVC-SOLVENT WELD JOINTS
———	LATERAL PIPING	REFER TO SPEC.	3/4" & LARGER - CLASS 200 PVC 1/2" - CLASS 315 PVC
———	DISTRIBUTION TUBING	NETAFIM	POLYETHYLENE TUBING W TLSS SOIL STAPLES
⊠	REMOTE CONTROL DRIP VALVE	NETAFIM	*_VCZ060TB-HP LOW VOLUME CONTROL ZONE KIT W/ BALL VALVE. REFER TO PLAN FOR LOCATION
⋮⋮⋮	PLANTING BED TECH-LINE TUBING	NETAFIM	TLCVP-12 WITH TECH-LINE BARBED FITTINGS, TLSS SOIL STAPLES, AND 12-1"-01 TECH-LINE FLAGS
NN	BACKFLOW PREVENTER	WATTS	*909M SERIES, REFER TO PLANS FOR SIZE
Ⓜ	WATER METER	REFER TO SPEC.	PER LOCAL BUILDING CODE
Ⓘ	ISOLATION VALVE	NIBCO	*T-113 SERIES, REFER TO PLANS FOR SIZE
Ⓨ	Y-PE STRAINER	FEBCO	*450 SERIES, REFER TO PLANS FOR SIZE
Ⓕ	FLOW METER	DATA INDUSTRIAL	*95-M SERIES, REFER TO PLANS FOR SIZE
Ⓜ	MASTER VALVE	IRRITROL	2000 SERIES, REFER TO PLAN FOR SIZE
▤	STATION NUMBER VALVE SIZE GPM (APPROX.)		

STATE OF TEXAS
SETH A. HEIDMAN
5881
LICENSED IRRIGATOR
11-3-09

ISSUE FOR BID

IRRI-TECH LLC
Irrigation Consultant SETH HEIDMAN
Lic. No. 5881 *Date* 11/03/09
BID

NO.	REVISION	BY	DATE

Addison *TOWN OF ADDISON*
DALLAS COUNTY, TEXAS

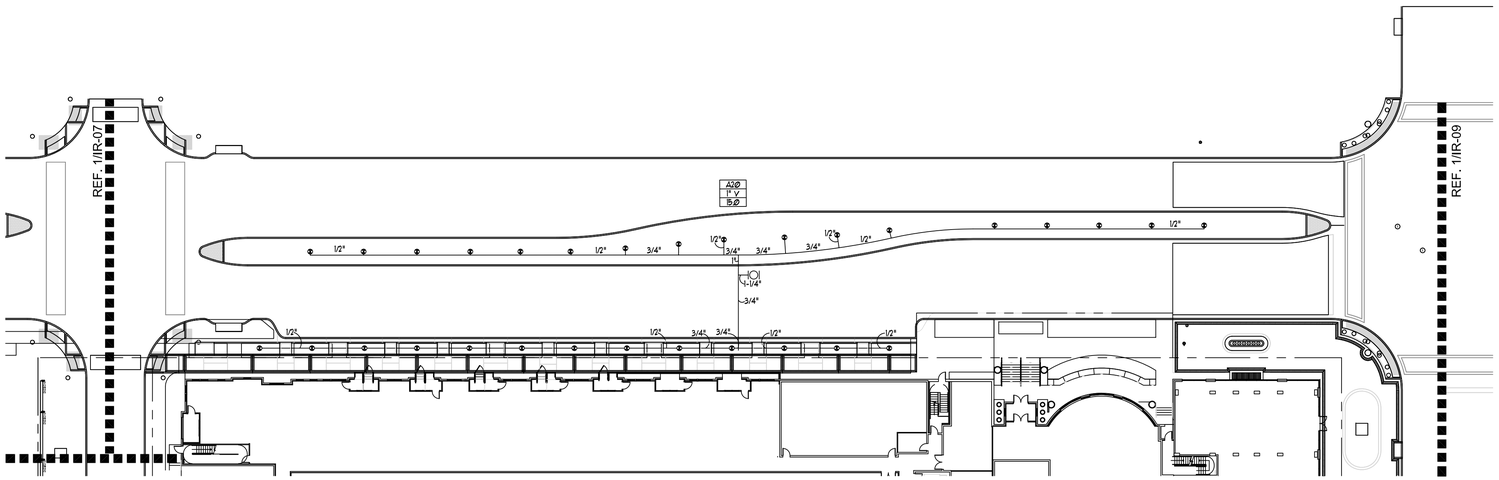
PARK IMPROVEMENTS
VITRUVIAN PARK

VITRUVIAN WAY, IRRIGATION PLAN-TREES

IRRI*TECH LLC.
Irrigation Technology
12650 Schroeder Rd.
Dallas, Texas 75243
IT Job No. 08352
(972) 231-5151

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	SAH	ASH	NOV 03 2009	PW # 2009-04	IR-07

PARK IMPROVEMENTS



SHEET NOTE:
1. MAINLINE , LATERAL LINES, AND VALVES ARE SHOWN IN STREET FOR CLARITY.

1
IR-08

Vitruvian Way, Irrigation Plan - Trees

0' 15' 30' 60'

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IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
●	LAWN SPRAY HEAD	RAINBIRD (30 PSI)	1804 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊘	HIGH-POP SPRAY HEAD	RAINBIRD (30 PSI)	180 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	*1804 W/ HUNTER PCH-10 NOZZLE UNLESS OTHERWISE NOTED
◍	TREE BUBBLER HEAD	HUNTER (30 PSI)	*1804 W/ HUNTER PCH-10 NOZZLE UNLESS OTHERWISE NOTED
■	LAWN CENTER STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ *5667T NOZZLE
□	LAWN END STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ *5RCS OR *5LCS NOZZLE
◨	HIGH-POP CENTER STRIP HEAD	RAINBIRD (30 PSI)	180 W/ *5667T NOZZLE
◧	HIGH-POP END STRIP HEAD	RAINBIRD (30 PSI)	180 W/ *5RCS OR *5LCS NOZZLE
⊕	SMALL ROTARY	HUNTER (40 PSI)	PGJ-4 W/ *5.5 NOZZLE
◑	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ *5.0 NOZZLE
◉	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-2 W/ *5.0 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ *4.0 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ *8.0 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-2 W/ *4.0 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40PSI)	I-20-2 W/ *8.0 NOZZLE
▲	QUICK COUPLING VALVE	BUCKNER	*VQTS-CNP WITH SPEARS BALL VALVE. PURPLE LID READS "NON-POTABLE, NOT SAFE FOR DRINKING" IN ENGLISH AND SPANISH.
⊠	REMOTE CONTROL VALVE	IRRITROL	2400 OPEN RBC WITH SPEARS BALL VALVE. REFER TO PLANS FOR SIZE
⊖	BALL VALVE	SPEARS	COMPACT "T-HANDLE"- LINE SIZE
⊗	GATE VALVE	MATCO	*ORIT SERIES - LINE SIZE
▬	CONTROLLER	RAINMASTER	EVOLUTION DX-2 SERIES WITH TWACLR RAIN/FREEZE SENSOR
—— ——	MAINLINE PIPING	REFER TO SPEC.	4" AND LARGER - CLASS 200 PVC-GASKET JOINTS 3" AND 2-1/2" - CLASS 200 PVC-SOLVENT WELD JOINTS 1" AND SMALLER - SCHEDULE 40 PVC-SOLVENT WELD JOINTS
————	LATERAL PIPING	REFER TO SPEC.	3/4" + LARGER - CLASS 200 PVC 1/2" - CLASS 315 PVC
————	DISTRIBUTION TUBING	NETAFIM	POLYETHYLENE TUBING W TLSS SOIL STAPLES
KBI	REMOTE CONTROL DRIP VALVE	NETAFIM	9_VCDM075-HP LOW VOLUME CONTROL ZONE KIT W/ BALL VALVE. REFER TO PLAN FOR LOCATION
	PLANTING BED TECH-LINE TUBING	NETAFIM	TLCV9-12 WITH TECH-LINE BARBED FITTINGS, TLSS SOIL STAPLES, AND 12-P-PI TECH-LINE FLAGS
NN	BACKFLOW PREVENTER	WATTS	*009M SERIES, REFER TO PLANS FOR SIZE
Ⓜ	WATER METER	REFER TO SPEC.	PER LOCAL BUILDING CODE
Ⓘ	ISOLATION VALVE	NIBCO	*T-13 SERIES, REFER TO PLANS FOR SIZE
Ⓨ	Y/E STRAINER	FEBCO	*350 SERIES, REFER TO PLANS FOR SIZE
Ⓕ	FLOW METER	DATA INDUSTRIAL	*FS-P SERIES, REFER TO PLANS FOR SIZE
Ⓜ	MASTER VALVE	IRRITROL	2400 SERIES, REFER TO PLAN FOR SIZE
☰	STATION NUMBER VALVE SIZE GPM (APPROX.)		

STATE OF TEXAS
SETH A. HEIDMAN
5881
LICENSED IRRIGATOR
11-3-09

ISSUE FOR BID

IRRI-TECH LLC

Irrigation Consultant SETH HEIDMAN
Lic. No. 5881 Date 11/03/09
BID

NO.	REVISION	BY	DATE

Addison! *TOWN OF ADDISON*
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

VITRUVIAN WAY, IRRIGATION PLAN-TREES

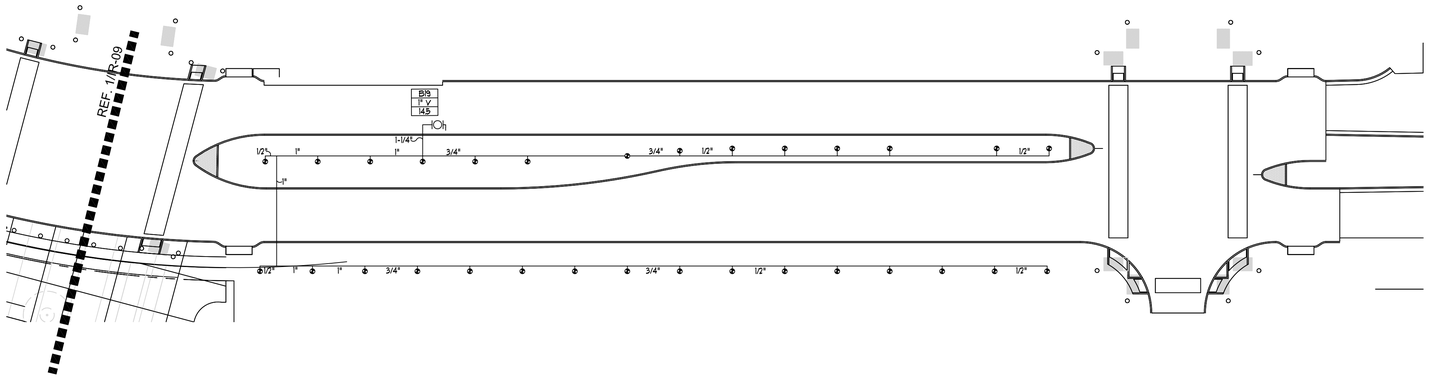
IRRI*TECH LLC.
Irrigation Technology
12650 Schroeder Rd.
Dallas, Texas 75243
IT Job No. 08352
(972) 231-5151

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	SAH	ASH	NOV 03 2009	PW # 2009-04	IR-08

PARK IMPROVEMENTS

SHEET NOTE:
1. MAINLINE , LATERAL LINES, AND VALVES ARE SHOWN IN STREET FOR CLARITY.





SHEET NOTE:
1. MAINLINE , LATERAL LINES, AND VALVES ARE SHOWN IN STREET FOR CLARITY.

1
IR-10
Vitruvian Way, Irrigation Plan - Trees

0' 15' 30' 60'

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IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
●	LAWN SPRAY HEAD	RAINBIRD (30 PSI)	1804 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊘	HIGH-POP SPRAY HEAD	RAINBIRD (30 PSI)	180 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	*1804 W/ HUNTER PCH-10 NOZZLE UNLESS OTHERWISE NOTED
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	*1804 W/ HUNTER PCH-10 NOZZLE UNLESS OTHERWISE NOTED
■	LAWN CENTER STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ *5607T NOZZLE
□	LAWN END STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ *5RCS OR *5LCS NOZZLE
◨	HIGH-POP CENTER STRIP HEAD	RAINBIRD (30 PSI)	180 W/ *5607T NOZZLE
◧	HIGH-POP END STRIP HEAD	RAINBIRD (30 PSI)	180 W/ *5RCS OR *5LCS NOZZLE
⊕	SMALL ROTARY	HUNTER (40 PSI)	PGJ-4 W/ *13 NOZZLE
◑	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ *LD NOZZLE
◉	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ *LD NOZZLE
ⓘ	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ *LD NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ *LD NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ *LD NOZZLE
◉	ROTARY FULL-CIRCLE	HUNTER (40PSI)	I-20-12 W/ *LD NOZZLE
▲	QUICK COUPLING VALVE	BUCKNER	*VQTB-CNP WITH SPEARS BALL VALVE. PURPLE LID READS "NON-POTABLE, NOT SAFE FOR DRINKING" IN ENGLISH AND SPANISH.
⧈	REMOTE CONTROL VALVE	IRRITROL	2000 OPEN RBC WITH SPEARS BALL VALVE. REFER TO PLANS FOR SIZE
⊘	BALL VALVE	SPEARS	COMPACT "T-HANDLE"- LINE SIZE
⊗	GATE VALVE	MATCO	*ORIT SERIES - LINE SIZE
▬	CONTROLLER	RAINMASTER	EVOLUTION DX-2 SERIES WITH TYMCLIK RAIN/FREEZE SENSOR
—— ——	MAINLINE PIPING	REFER TO SPEC.	4" AND LARGER - CLASS 200 PVC-GASKET JOINTS 3" AND 2-1/2" - CLASS 200 PVC-SOLVENT WELD JOINTS 1" AND SMALLER - SCHEDULE 40 PVC-SOLVENT WELD JOINTS
————	LATERAL PIPING	REFER TO SPEC.	3/4" + LARGER - CLASS 200 PVC 1/2" - CLASS 315 PVC
————	DISTRIBUTION TUBING	NETAFIM	POLYETHYLENE TUBING W TLSS SOIL STAPLES
KBI	REMOTE CONTROL DRIP VALVE	NETAFIM	*_VC1200TD-NP LOW VOLUME CONTROL ZONE KIT W/ BALL VALVE. REFER TO PLAN FOR LOCATION
	PLANTING BED TECH-LINE TUBING	NETAFIM	TLCVS-12 WITH TECH-LINE BARBED FITTINGS, TLSS SOIL STAPLES, AND 1216-P-01 TECH-LINE FLUSH
NN	BACKFLOW PREVENTER	WATTS	*009M2 SERIES, REFER TO PLANS FOR SIZE
Ⓜ	WATER METER	REFER TO SPEC.	PER LOCAL BUILDING CODE
Ⓘ	ISOLATION VALVE	NIBCO	*T-113 SERIES, REFER TO PLANS FOR SIZE
Ⓨ	Y-FE STRAINER	FEBCO	*450 SERIES, REFER TO PLANS FOR SIZE
Ⓕ	FLOW METER	DATA INDUSTRIAL	*FS-P SERIES, REFER TO PLANS FOR SIZE
Ⓜ	MASTER VALVE	IRRITROL	2000 SERIES, REFER TO PLAN FOR SIZE
	STATION NUMBER VALVE SIZE GPM (APPROX.)		

STATE OF TEXAS
SETH A. HEIDMAN
5881
LICENSED IRRIGATOR
11-3-09

ISSUE FOR BID

IRRI-TECH LLC

Irrigation Consultant SETH HEIDMAN
Lic. No. 5881 Date 11/03/09
BID

NO.	REVISION	BY	DATE

Addison! TOWN OF ADDISON
DALLAS COUNTY, TEXAS

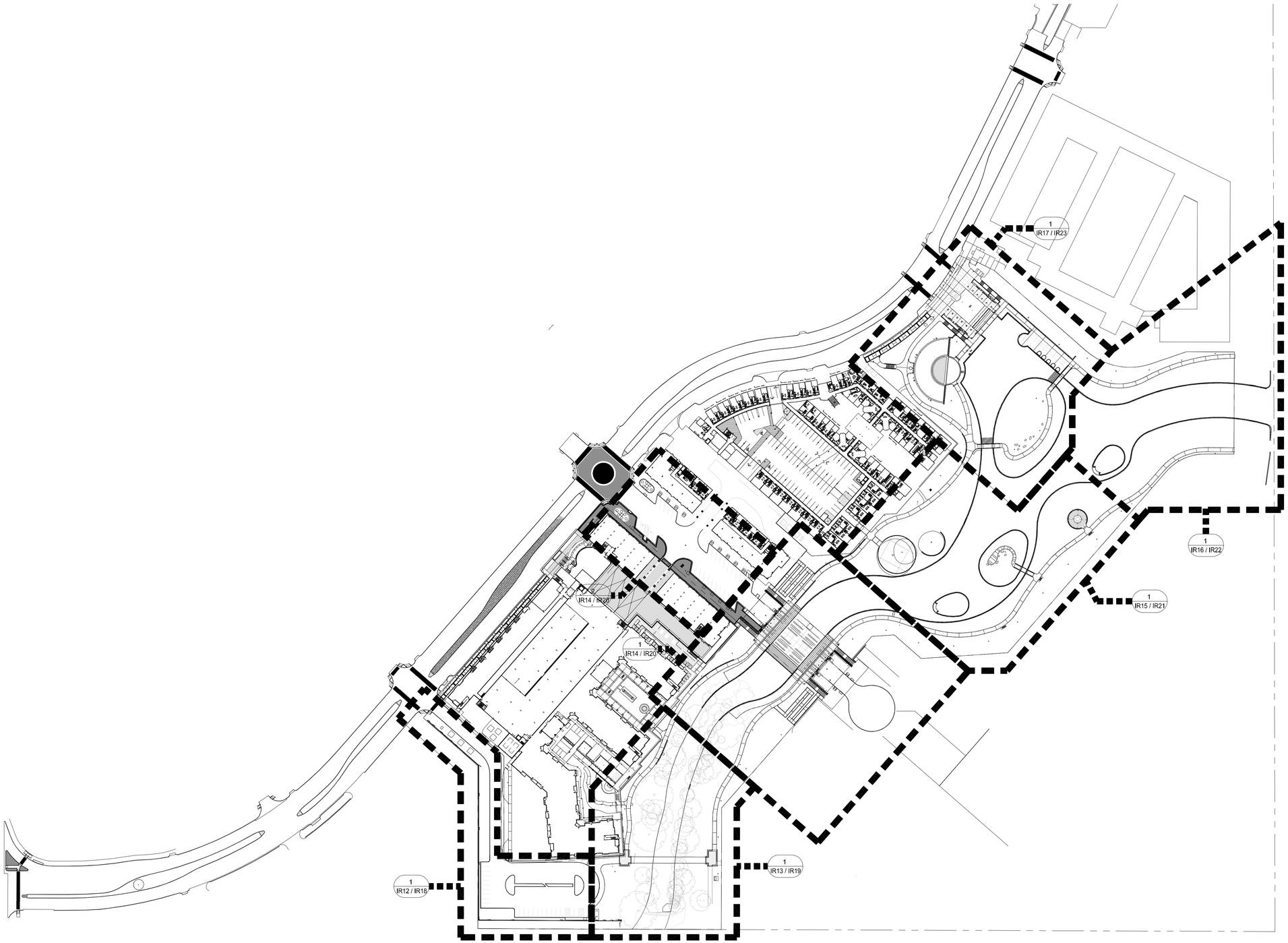
PARK IMPROVEMENTS
VITRUVIAN PARK

VITRUVIAN WAY, IRRIGATION PLAN-TREES

IRRI*TECH LLC.
Irrigation Technology
12650 Schroeder Rd.
Dallas, Texas 75243
IT Job No. 08352
(972) 231-5151

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	SAH	ASH	NOV 03 2009	PW # 2009-04	IR-10

PARK IMPROVEMENTS



1
IR-11 Vitruvian Park Irrigation Plan Cover Sheet

0' 50' 100' 200'

Irrigation in Texas is regulated by the Texas Commission of Environmental Quality (TCEQ), MC-178, P.O. Box 13087, Austin, Texas 78711-3087. TCEQ online at: www.tceq.state.tx.us

1

STATE OF TEXAS
SETH A. HEIDMAN
5881
LICENSED IRRIGATOR
11-3-09

ISSUE FOR BID

IRRI-TECH LLC

Irrigation Consultant SETH HEIDMAN
Lic. No. 5881 Date 11/03/09
BID

NO.	REVISION	BY	DATE

Addison *TOWN OF ADDISON*
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

VITRUVIAN PARK
IRRIGATION PLAN COVER SHEET

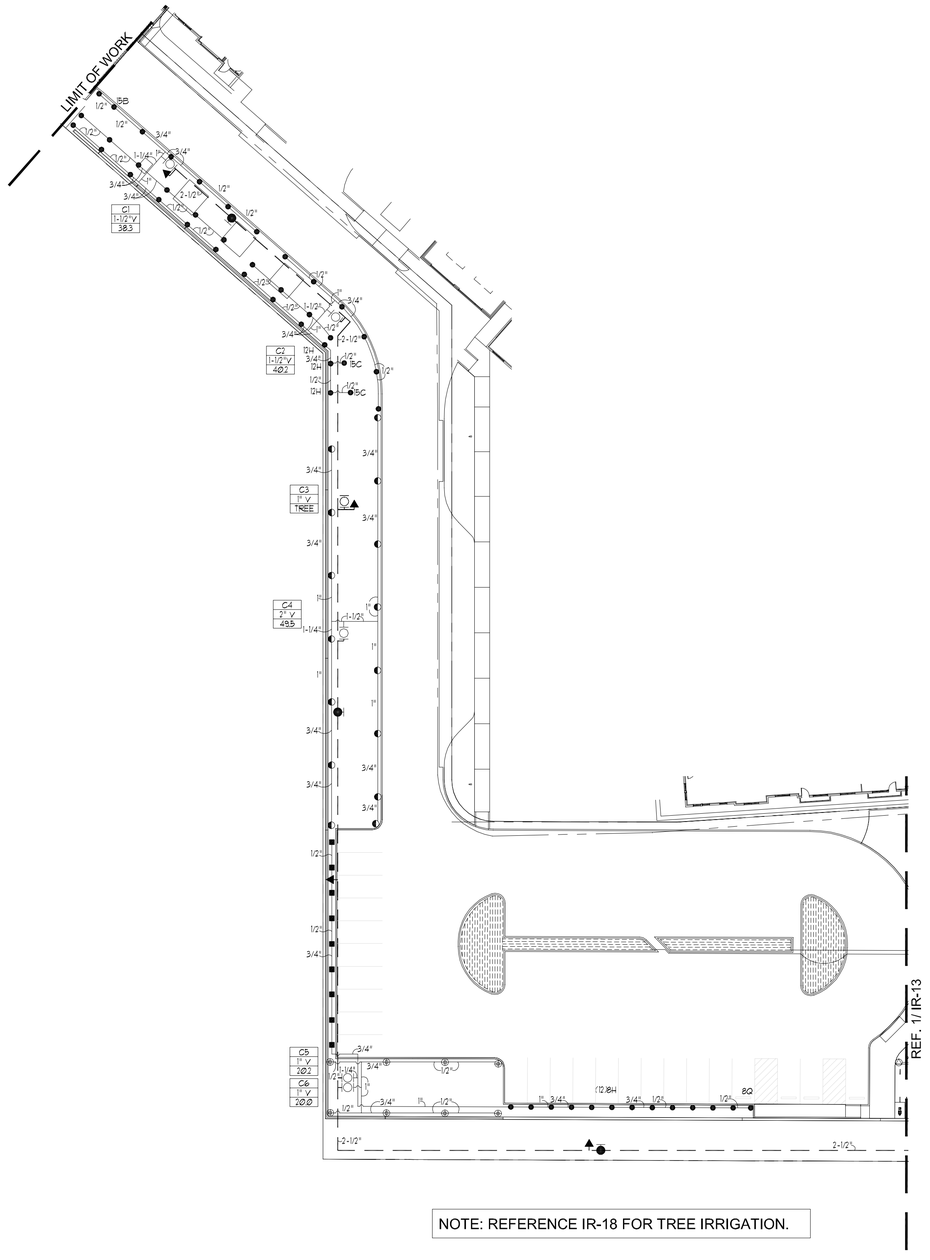
IRRI*TECH LLC.
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12650 Schroeder Rd.
Dallas, Texas 75243

IT Job No. 08352
(972) 231-5151

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	SAH	KEL	NOV 03 2009	PW # 2009-04	IR-11

PARK IMPROVEMENTS



1
IR-12

Southern Parking Area and Drive, Irrigation Plan

0' 15' 30' 60'

IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
●	LAWN SPRAY HEAD	RAINBIRD (30 PSI)	1804 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊘	HIGH-POP SPRAY HEAD	RAINBIRD (30 PSI)	182 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	1804 W/ HUNTER PCN-10 NOZZLE UNLESS OTHERWISE NOTED
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	1804 W/ HUNTER PCN-10 NOZZLE UNLESS OTHERWISE NOTED
■	LAWN CENTER STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ *5667T NOZZLE
□	LAWN END STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ *5RCS OR *5LCS NOZZLE
◥	HIGH-POP CENTER STRIP HEAD	RAINBIRD (30 PSI)	182 W/ *5667T NOZZLE
◹	HIGH-POP END STRIP HEAD	RAINBIRD (30 PSI)	182 W/ *5RCS OR *5LCS NOZZLE
⊛	SMALL ROTARY	HUNTER (40 PSI)	PGJ-4 W/ #3 NOZZLE
◑	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #10 NOZZLE
⊛	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ #10 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #4.0 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #8.0 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ #4.0 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40PSI)	I-20-12 W/ #8.0 NOZZLE
▲	QUICK COUPLING VALVE	BUCKNER	*VQTB-DNP WITH SPEARS BALL VALVE, PURPLE LID READS 'NON-POTABLE - NOT SAFE FOR DRINKING' IN ENGLISH AND SPANISH
⊠	REMOTE CONTROL VALVE	IRRITROL	200B OMNI-REG SERIES WITH SPEARS BALL VALVE REFER TO PLANS FOR SIZE
⊘	BALL VALVE	SPEARS	COMPACT 'T'-HANDLE'- LINE SIZE
⊘	GATE VALVE	MATCO	*ORIT SERIES - LINE SIZE
▬	CONTROLLER	RAINMASTER	EVOLUTION DX-2 SERIES WITH MINICLIK RAIN/FREEZE SENSOR
— —	MAINLINE PIPING	REFER TO SPEC.	4" AND LARGER - CLASS 200 PVC-GASKET JOINTS 3" AND 2-1/2" - CLASS 200 PVC-SOLVENT WELD JOINTS 2" AND SMALLER - SCHEDULE 40 PVC-SOLVENT WELD JOINTS
———	LATERAL PIPING	REFER TO SPEC.	3/4" + LARGER - CLASS 200 PVC 1" - CLASS 315 PVC
⊠	REMOTE CONTROL DRIP VALVE	NETAFIM	*LVC200TS-HF LOW VOLUME CONTROL ZONE KIT W/ BALL VALVE. REFER TO PLAN FOR LOCATION
———	DISTRIBUTION TUBING	NETAFIM	POLYETHYLENE TUBING W/ TLO6 SOIL STAPLES
⋯⋯	PLANTING BED TECHLINE TUBING	NETAFIM	TLCV6-12 WITH TECHLINE BARBED FITTINGS, TLSK SOIL STAPLES AND 10-P-FLT TECHLINE FLAGS
NN	BACKFLOW PREVENTER	WATTS	909TM SERIES, REFER TO PLANS FOR SIZE
Ⓜ	WATER METER	REFER TO SPEC.	PER LOCAL BUILDING CODE
⊘	ISOLATION VALVE	NIBCO	*T-113 SERIES, REFER TO PLANS FOR SIZE
Ⓨ	Y/E STRAINER	FEBCO	*350 SERIES, REFER TO PLANS FOR SIZE
Ⓕ	FLOW METER	DATA INDUSTRIAL	*FS-P SERIES, REFER TO PLANS FOR SIZE
Ⓜ	MASTER VALVE	IRRITROL	200B SERIES, REFER TO PLAN FOR SIZE
▤	STATION NUMBER VALVE SIZE GPM (APPROX.)		

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ISSUE FOR BID

IRRI-TECH LLC

Irrigation Consultant SETH HEIDMAN
Lic. No. 5881 Date 11/03/09
BID

NO.	REVISION	BY	DATE

Addison. *TOWN OF ADDISON*
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

SOUTHERN PARKING AREA AND DRIVE IRRIGATION PLAN

IRRI*TECH LLC.
Irrigation Technology

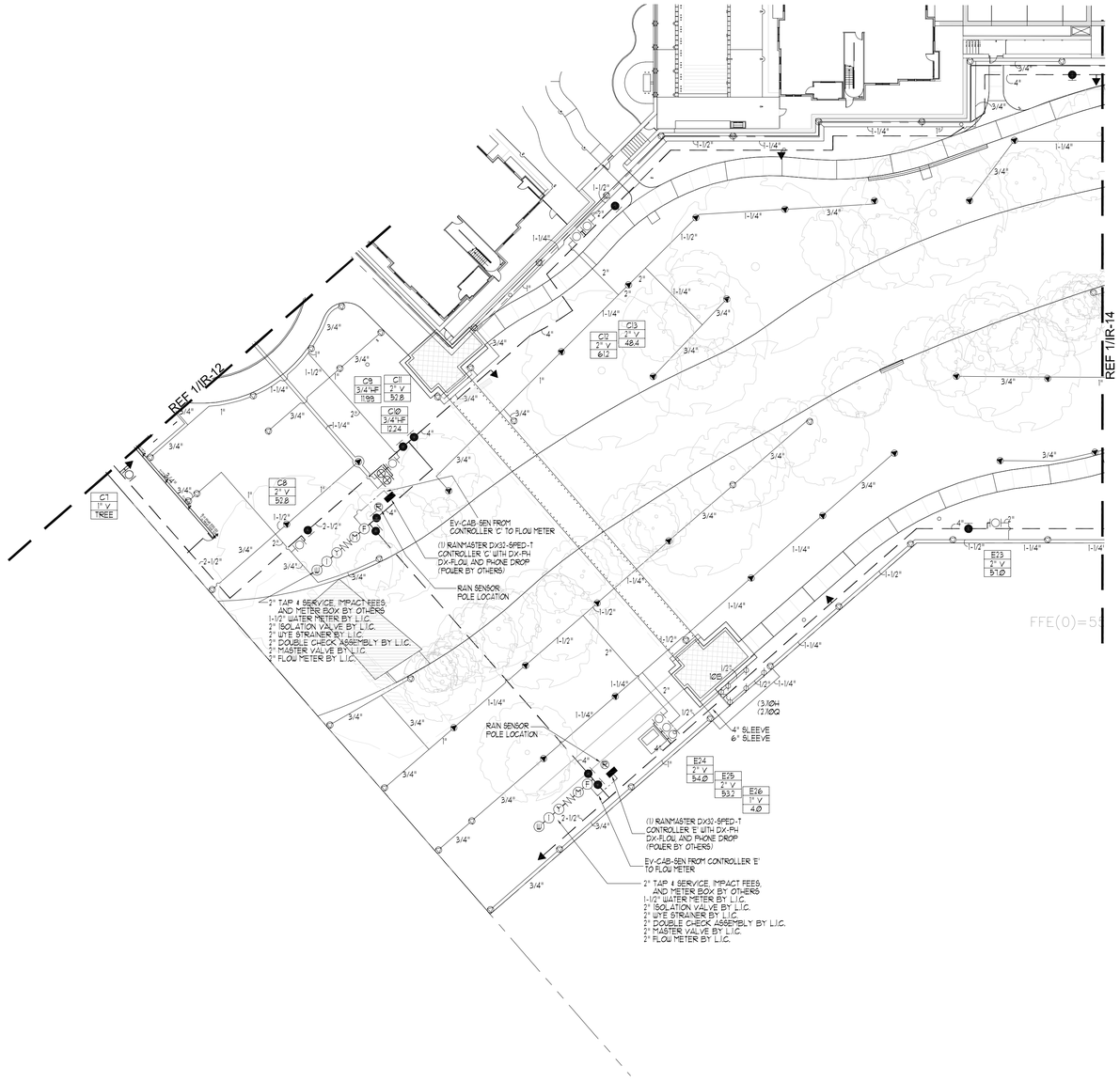
12650 Schroeder Rd.
Dallas, Texas 75243

IT Job No. 08352
(972) 231-5151

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	SAH	KEL	NOV 03 2009	PW # 2009-04	IR-12

PARK IMPROVEMENTS

Registered Texas engineered for the Texas Commission of Environmental Quality (TCEQ), MC-176, P.O. Box 13087, Austin, Texas 78711-3087. TCEQ website: www.tceq.state.tx.us



NOTE: REFERENCE IR-19 FOR TREE IRRIGATION.

1
IR-13
Southern Parking Area and Drive, Irrigation Plan

IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
●	LAWN SPRAY HEAD	RAINBIRD (30 PSI)	1804 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊘	HIGH-POP SPRAY HEAD	RAINBIRD (30 PSI)	192 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	1804 W/ HUNTER PCN-10 NOZZLE UNLESS OTHERWISE NOTED
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	1804 W/ HUNTER PCN-10 NOZZLE UNLESS OTHERWISE NOTED
■	LAWN CENTER STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ #5667T NOZZLE
□	LAWN END STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ #5RCS OR #5LCS NOZZLE
◥	HIGH-POP CENTER STRIP HEAD	RAINBIRD (30 PSI)	192 W/ #5667T NOZZLE
◹	HIGH-POP END STRIP HEAD	RAINBIRD (30 PSI)	192 W/ #5RCS OR #5LCS NOZZLE
⊛	SMALL ROTARY	HUNTER (40 PSI)	PGJ-4 W/ #3 NOZZLE
◑	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #.8 NOZZLE
⊛	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ #.8 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #.6 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #.8 NOZZLE
⊛	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ #.6 NOZZLE
⊛	ROTARY FULL-CIRCLE	HUNTER (40PSI)	I-20-12 W/ #.8 NOZZLE
▲	QUICK COUPLING VALVE	BUCKNER	"VQTB-DNP WITH SPEARS BALL VALVE, PURPLE LID READS 'NON-POTABLE, NOT SAFE FOR DRINKING' IN ENGLISH AND SPANISH
⊠	REMOTE CONTROL VALVE	IRRITROL	200BS OMNI-REG SERIES WITH SPEARS BALL VALVE REFER TO PLANS FOR SIZE
⊘	BALL VALVE	SPEARS	COMPACT "T"-HANDLE"- LINE SIZE
●	GATE VALVE	MATCO	"ORIT SERIES - LINE SIZE
▬	CONTROLLER	RAINMASTER	EVOLUTION DX-2 SERIES WITH MINDLIK RAIN/FREEZE SENSOR
— —	MAINLINE PIPING	REFER TO SPEC.	4" AND LARGER - CLASS 200 PVC-GASKET JOINTS 3" AND 2-1/2" - CLASS 200 PVC-SOLVENT WELD JOINTS 2" AND SMALLER - SCHEDULE 40 PVC-SOLVENT WELD JOINTS
———	LATERAL PIPING	REFER TO SPEC.	3/4" & LARGER - CLASS 200 PVC 1" - CLASS 315 PVC
⊠	REMOTE CONTROL DRIP VALVE	NETAFIM	"LVC200TB-HF LOW VOLUME CONTROL ZONE KIT W/ BALL VALVE, REFER TO PLAN FOR LOCATION
———	DISTRIBUTION TUBING	NETAFIM	POLYETHYLENE TUBING W/ TLD6 SOIL STAPLES
⋮⋮⋮	PLANTING BED TECHLINE TUBING	NETAFIM	TLCV6-12 WITH TECHLINE BARBED FITTINGS, TLSK SOIL STAPLES AND 18"-P-FLT TECHLINE FLAGS
NN	BACKFLOW PREVENTER	WATTS	"009TH SERIES, REFER TO PLANS FOR SIZE
Ⓜ	WATER METER	REFER TO SPEC.	PER LOCAL BUILDING CODE
Ⓘ	ISOLATION VALVE	NIBCO	"T-113 SERIES, REFER TO PLANS FOR SIZE
Ⓨ	WYE STRAINER	FEBCO	"350 SERIES, REFER TO PLANS FOR SIZE
Ⓕ	FLOW METER	DATA INDUSTRIAL	"FS-P SERIES, REFER TO PLANS FOR SIZE
Ⓜ	MASTER VALVE	IRRITROL	200BS SERIES, REFER TO PLAN FOR SIZE
▤	STATION NUMBER VALVE SIZE GPM (APPROX.)		

STATE OF TEXAS
SETH A. HEIDMAN
5881
LICENSED IRRIGATOR
11-3-09

ISSUE FOR BID

IRRI-TECH LLC

Irrigation Consultant SETH HEIDMAN
Lic. No. 5881 Date 11/03/09
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Addison
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

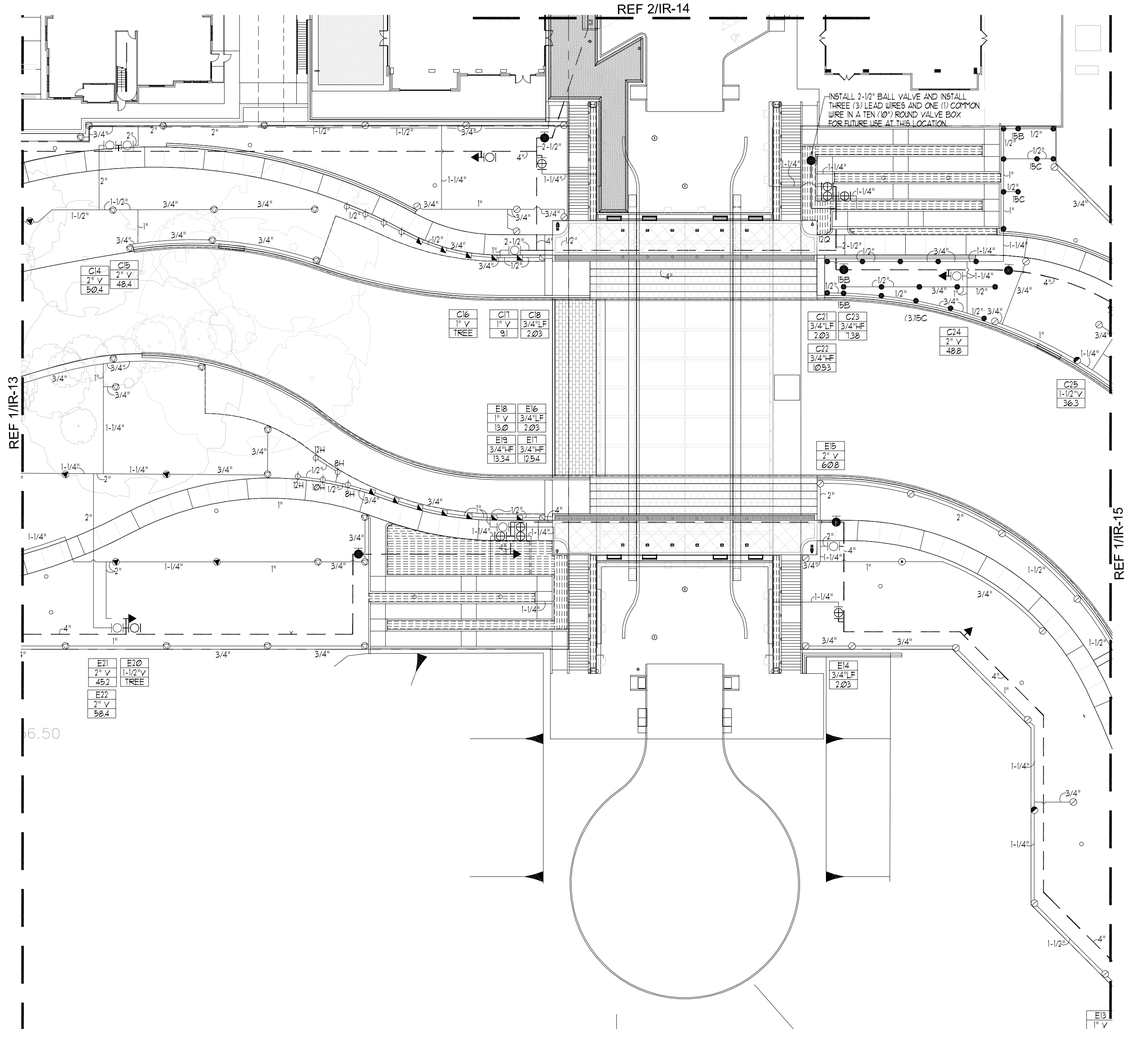
SOUTHERN PARKING AREA AND DRIVE IRRIGATION PLAN

IRRI*TECH LLC.
Irrigation Technology
12650 Schroeder Rd.
Dallas, Texas 75243
IT Job No. 08352
(972) 231-5151

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	SAH	KEL	NOV 03 2009	PW # 2009-04	IR-13

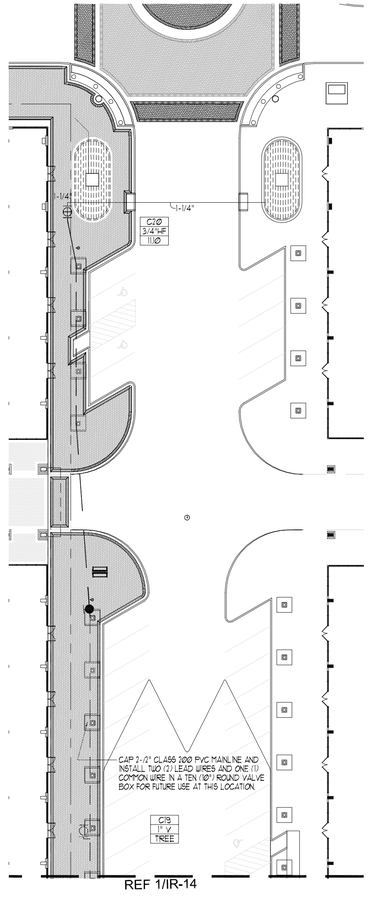
PARK IMPROVEMENTS

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NOTE: REFERENCE IR-20 FOR TREE IRRIGATION.

1 IR-14 Southern Park Area - A, Irrigation Plan 0' 15' 30' 60'



NOTE: REFERENCE IR-20 FOR TREE IRRIGATION.

2 IR-14 Southern Park Area - A, Irrigation Plan 0' 15' 30' 60'

IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
●	LAWN SPRAY HEAD	RAINBIRD (30 PSI)	1804 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊘	HIGH-POP SPRAY HEAD	RAINBIRD (30 PSI)	182 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	1804 W/ HUNTER PCN-10 NOZZLE UNLESS OTHERWISE NOTED
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	1804 W/ HUNTER PCN-10 NOZZLE UNLESS OTHERWISE NOTED
■	LAWN CENTER STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ #566TT NOZZLE
□	LAWN END STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ #5RCS OR #5LCS NOZZLE
■	HIGH-POP CENTER STRIP HEAD	RAINBIRD (30 PSI)	182 W/ #566TT NOZZLE
□	HIGH-POP END STRIP HEAD	RAINBIRD (30 PSI)	182 W/ #5RCS OR #5LCS NOZZLE
⊕	SMALL ROTARY	HUNTER (40 PSI)	PGJ-4 W/ #3 NOZZLE
◑	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #.0 NOZZLE
⊕	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ #.0 NOZZLE
⊕	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #.0 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #.0 NOZZLE
⊕	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ #.0 NOZZLE
⊕	ROTARY FULL-CIRCLE	HUNTER (40PSI)	I-20-12 W/ #.0 NOZZLE
▲	QUICK COUPLING VALVE	BUCKNER	'KVTB-DNP WITH SPEARS BALL VALVE, PURPLE LID READS 'NON-POTABLE - NOT SAFE FOR DRINKING' IN ENGLISH AND SPANISH
⊠	REMOTE CONTROL VALVE	IRRITROL	200DS OMNI-REG SERIES WITH SPEARS BALL VALVE REFER TO PLANS FOR SIZE
⊘	BALL VALVE	SPEARS	COMPACT 'T'-HANDLE'- LINE SIZE
⊕	GATE VALVE	MATCO	'KNRT SERIES - LINE SIZE
▬	CONTROLLER	RAINMASTER	EVOLUTION EX-1 SERIES WITH MINICLIK RAIN/FREEZE SENSOR
— —	MAINLINE PIPING	REFER TO SPEC.	4" AND LARGER - CLASS 200 PVC-GASKET JOINTS 3" AND 2-1/2" - CLASS 200 PVC-SOLVENT WELD JOINTS 2" AD SMALLER - SCHEDULE 40 PVC-SOLVENT WELD JOINTS
———	LATERAL PIPING	REFER TO SPEC.	3/4" + LARGER - CLASS 200 PVC 1" - CLASS 315 PVC
XBH	REMOTE CONTROL DRIP VALVE	NETAFIM	'LVCZ200TB-HF LOW VOLUME CONTROL ZONE KIT W/ BALL VALVE, REFER TO PLAN FOR LOCATION
———	DISTRIBUTION TUBING	NETAFIM	POLYETHYLENE TUBING W/ TLD6 SOIL STAPLES
⋮⋮⋮⋮	PLANTING BED TECHLINE TUBING	NETAFIM	TLCV6-12 WITH TECHLINE BARBED FITTINGS, TLSK SOIL STAPLES, AND 10-P-01 TECHLINE FLAGS
NN	BACKFLOW PREVENTER	WATTS	'K007H SERIES, REFER TO PLANS FOR SIZE
Ⓜ	WATER METER	REFER TO SPEC.	PER LOCAL BUILDING CODE
Ⓘ	ISOLATION VALVE	NIBCO	'T-113 SERIES, REFER TO PLANS FOR SIZE
Ⓨ	Y/Z STRAINER	FEBCO	'450 SERIES, REFER TO PLANS FOR SIZE
Ⓕ	FLOW METER	DATA INDUSTRIAL	'FS-P SERIES, REFER TO PLANS FOR SIZE
Ⓜ	MASTER VALVE	IRRITROL	200DS SERIES, REFER TO PLAN FOR SIZE
	STATION NUMBER VALVE SIZE GPM (APPROX.)		

STATE OF TEXAS SETHA HEIDMAN 5881 LICENSED IRRIGATOR 11-3-09

ISSUE FOR BID

IRRI-TECH LLC

Irrigation Consultant SETH HEIDMAN

Lic. No. 5881 Date 11/03/09

BID

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Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

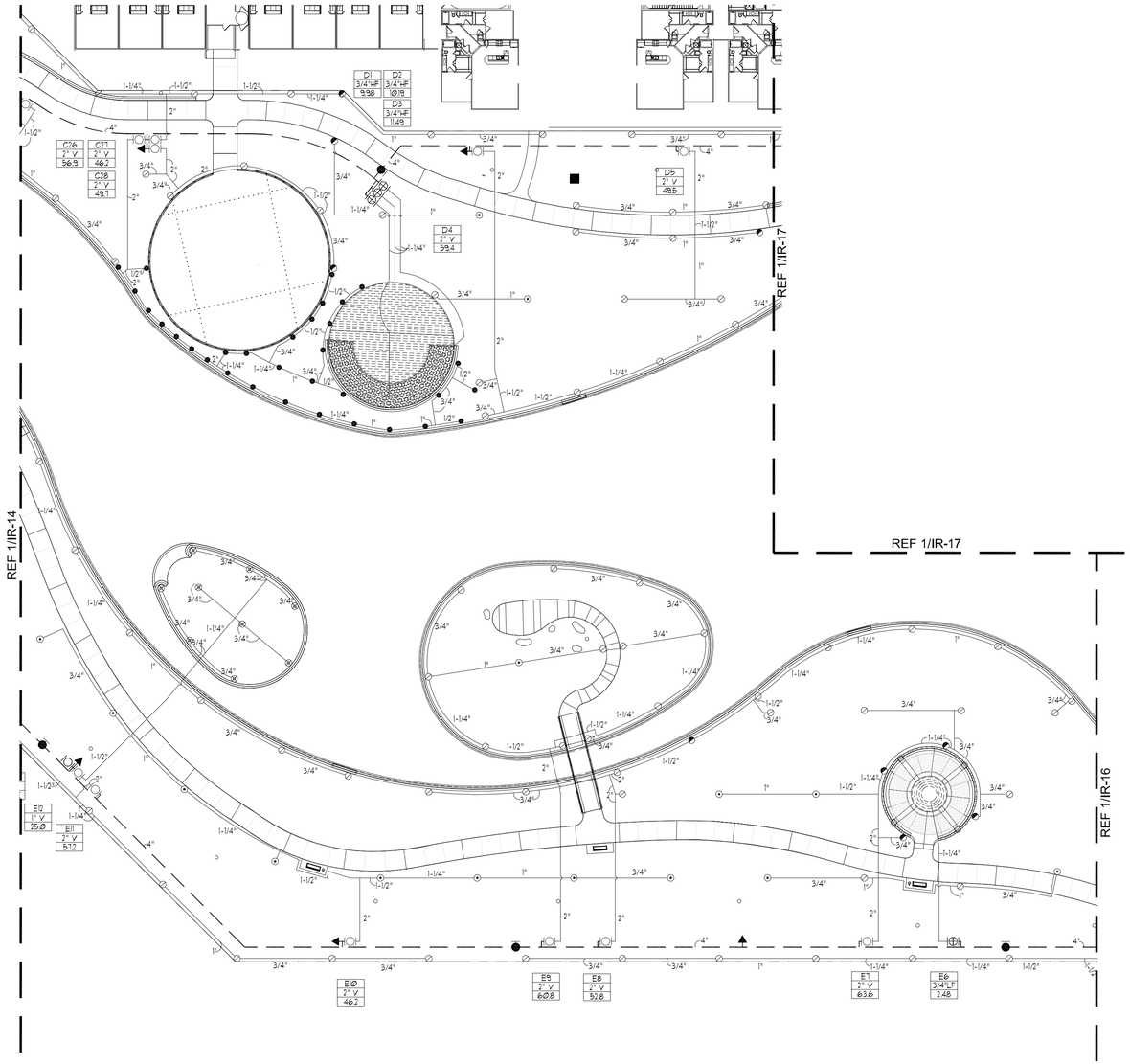
SOUTHERN PARK AREA -A IRRIGATION PLAN

IRRI*TECH LLC. Irrigation Technology
12650 Schroeder Rd. Dallas, Texas 75243
IT Job No. 08352 (972) 231-5151

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	SAH	KEL	NOV 03 2009	PW # 2009-04	IR-14

PARK IMPROVEMENTS

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NOTE: REFERENCE IR-21 FOR TREE IRRIGATION.

1
IR-15
Southern Park Area - B, Irrigation Plan

0' 15' 30' 60'

IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
●	LAWN SPRAY HEAD	RAINBIRD (30 PSI)	1804 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊘	HIGH-POP SPRAY HEAD	RAINBIRD (30 PSI)	182 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	1804 W/ HUNTER PCN-10 NOZZLE UNLESS OTHERWISE NOTED
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	1804 W/ HUNTER PCN-20 NOZZLE UNLESS OTHERWISE NOTED
■	LAWN CENTER STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ #5667T NOZZLE
□	LAWN END STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ #5RCS OR #5LCS NOZZLE
■	HIGH-POP CENTER STRIP HEAD	RAINBIRD (30 PSI)	182 W/ #5667T NOZZLE
□	HIGH-POP END STRIP HEAD	RAINBIRD (30 PSI)	182 W/ #5RCS OR #5LCS NOZZLE
◉	SMALL ROTARY	HUNTER (40 PSI)	PSU-4 W/ #3 NOZZLE
◑	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #10 NOZZLE
◉	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ #10 NOZZLE
◔	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #4.0 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #8.0 NOZZLE
◎	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ #4.0 NOZZLE
◉	ROTARY FULL-CIRCLE	HUNTER (40PSI)	I-20-12 W/ #8.0 NOZZLE
▲	QUICK COUPLING VALVE	BUCKNER	4VDB-DNP WITH SPEARS BALL VALVE. PURPLE LID READS 'NON-POTABLE NOT SAFE FOR DRINKING' IN ENGLISH AND SPANISH
⊠	REMOTE CONTROL VALVE	IRRITROL	200DS OMNI-REG SERIES WITH SPEARS BALL VALVE. REFER TO PLANS FOR SIZE
⊘	BALL VALVE	SPEARS	COMPACT 'T'-HANDLE'- LINE SIZE
⊘	GATE VALVE	MATCO	40RT SERIES - LINE SIZE
▬	CONTROLLER	RAINMASTER	EVOLUTION DX-1 SERIES WITH MINICLIK RAIN/FREEZE SENSOR
—— ——	MAINLINE PIPING	REFER TO SPEC.	4" AND LARGER - CLASS 200 PVC-GASKET JOINTS 3" AND 2-1/2" - CLASS 200 PVC-SOLVENT WELD JOINTS 2" AND SMALLER - SCHEDULE 40 PVC-SOLVENT WELD JOINTS
——	LATERAL PIPING	REFER TO SPEC.	3/4" & LARGER - CLASS 200 PVC 1" - CLASS 315 PVC
⊠	REMOTE CONTROL DRIP VALVE	NETAFIM	1"XCZ200TS-HF LOW VOLUME CONTROL ZONE KIT W/ BALL VALVE. REFER TO PLAN FOR LOCATION
——	DISTRIBUTION TUBING	NETAFIM	POLYETHYLENE TUBING W/ TLCB6 SOIL STAPLES
⋮⋮⋮	PLANTING BED TECHLINE TUBING	NETAFIM	TLCV6-2 WITH TECHLINE BARBED FITTINGS, TLSM SOIL STAPLES AND 10'-F-0' TECHLINE FLAGS
NN	BACKFLOW PREVENTER	WATTS	909TH SERIES, REFER TO PLANS FOR SIZE
Ⓜ	WATER METER	REFER TO SPEC.	PER LOCAL BUILDING CODE
⊙	ISOLATION VALVE	NIBCO	T-113 SERIES, REFER TO PLANS FOR SIZE
Ⓨ	Y/E STRAINER	FEBCO	765D SERIES, REFER TO PLANS FOR SIZE
Ⓕ	FLOW METER	DATA INDUSTRIAL	915-P SERIES, REFER TO PLANS FOR SIZE
Ⓜ	MASTER VALVE	IRRITROL	200DS SERIES, REFER TO PLAN FOR SIZE
▤	STATION NUMBER VALVE SIZE GPM (APPROX.)		

STATE OF TEXAS
SETHA HEIDMAN
5881
LICENSED IRRIGATOR
11-3-09

ISSUE FOR BID

IRRI-TECH LLC

Irrigation Consultant SETH HEIDMAN
Lic. No. 5881 *Date* 11/03/09
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TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

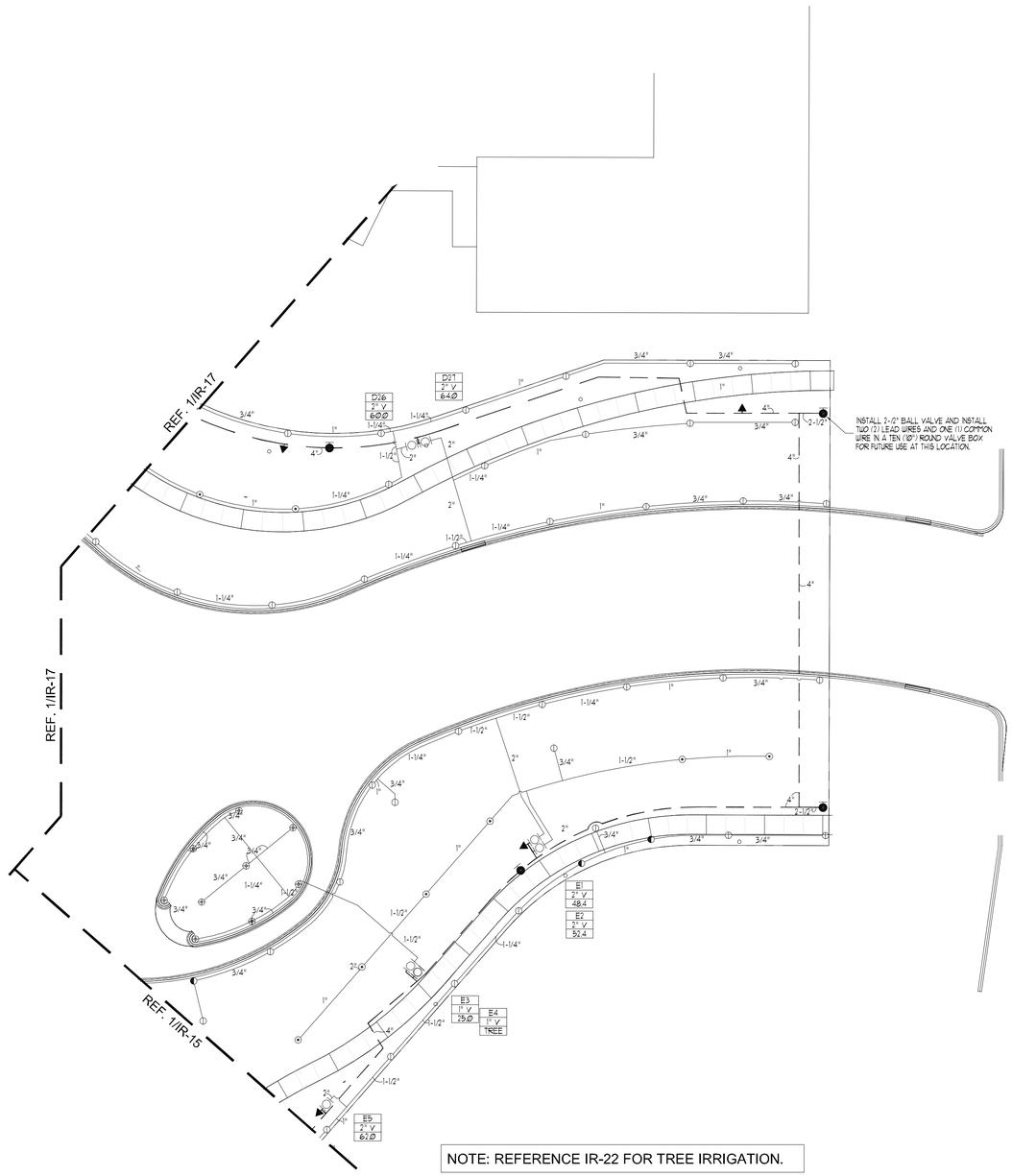
SOUTHERN PARK AREA -B IRRIGATION PLAN

IRRI*TECH LLC.
Irrigation Technology
12650 Schroeder Rd.
Dallas, Texas 75243
IT Job No. 08352
(972) 231-5151

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	SAH	KEL	NOV 03 2009	PW # 2009-04	IR-15

PARK IMPROVEMENTS

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1
IR-16

Southern Park Area - C, Irrigation Plan

0' 15' 30' 60'

IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
●	LAWN SPRAY HEAD	RAINBIRD (30 PSI)	1804 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊘	HIGH-POP SPRAY HEAD	RAINBIRD (30 PSI)	192 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	1804 W/ HUNTER PCN-10 NOZZLE UNLESS OTHERWISE NOTED
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	1804 W/ HUNTER PCN-10 NOZZLE UNLESS OTHERWISE NOTED
■	LAWN CENTER STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ #5667T NOZZLE
□	LAWN END STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ #5RCS OR #5LCS NOZZLE
◥	HIGH-POP CENTER STRIP HEAD	RAINBIRD (30 PSI)	192 W/ #5667T NOZZLE
◹	HIGH-POP END STRIP HEAD	RAINBIRD (30 PSI)	192 W/ #5RCS OR #5LCS NOZZLE
⊛	SMALL ROTARY	HUNTER (40 PSI)	PSU-4 W/ #3 NOZZLE
◑	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #.0 NOZZLE
⊛	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ #.0 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #.0 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #8.0 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ #.0 NOZZLE
♣	ROTARY FULL-CIRCLE	HUNTER (40PSI)	I-20-12 W/ #8.0 NOZZLE
▲	QUICK COUPLING VALVE	BUCKNER	*VQTB-DNP WITH SPEARS BALL VALVE, PURPLE LID READS 'NON-POTABLE - NOT SAFE FOR DRINKING' IN ENGLISH AND SPANISH
⊠	REMOTE CONTROL VALVE	IRRITROL	200DS OMNI-REG SERIES WITH SPEARS BALL VALVE REFER TO PLANS FOR SIZE
⊘	BALL VALVE	SPEARS	COMPACT 'T'-HANDLE'- LINE SIZE
⊘	GATE VALVE	MATCO	40RT SERIES - LINE SIZE
▬	CONTROLLER	RAINMASTER	EVOLUTION EX-2 SERIES WITH MINICLIK RAIN/FREEZE SENSOR
—— ——	MAINLINE PIPING	REFER TO SPEC.	4" AND LARGER - CLASS 200 PVC-GASKET JOINTS 3" AND 2-1/2" - CLASS 200 PVC-SOLVENT WELD JOINTS 2" AND SMALLER - SCHEDULE 40 PVC-SOLVENT WELD JOINTS
——	LATERAL PIPING	REFER TO SPEC.	3/4" & LARGER - CLASS 200 PVC 1/2" - CLASS 315 PVC
⊠	REMOTE CONTROL DRIP VALVE	NETAFIM	*LVC200TB-HF LOW VOLUME CONTROL ZONE KIT W/ BALL VALVE. REFER TO PLAN FOR LOCATION
——	DISTRIBUTION TUBING	NETAFIM	POLYETHYLENE TUBING W/ TLO66 SOIL STAPLES
⋮⋮⋮⋮	PLANTING BED TECHLINE TUBING	NETAFIM	TLCVR-12 WITH TECHLINE BARBED FITTINGS, TLO66 SOIL STAPLES, AND 18-P-01 TECHLINE FLAGS
NN	BACKFLOW PREVENTER	WATTS	*009TH SERIES, REFER TO PLANS FOR SIZE
Ⓜ	WATER METER	REFER TO SPEC.	MEN LOCAL BUILDING CODE
⊙	ISOLATION VALVE	NIBCO	*T-113 SERIES, REFER TO PLANS FOR SIZE
⊙	Y/Z STRAINER	FEBCO	*60D SERIES, REFER TO PLANS FOR SIZE
Ⓕ	FLOW METER	DATA INDUSTRIAL	*FS-P SERIES, REFER TO PLANS FOR SIZE
Ⓜ	MASTER VALVE	IRRITROL	200DS SERIES, REFER TO PLAN FOR SIZE
▭	STATION NUMBER VALVE SIZE GPM (APPROX.)		

STATE OF TEXAS
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PARK IMPROVEMENTS
VITRUVIAN PARK

SOUTHERN PARK AREA -C IRRIGATION PLAN

IRRI*TECH LLC.
Irrigation Technology

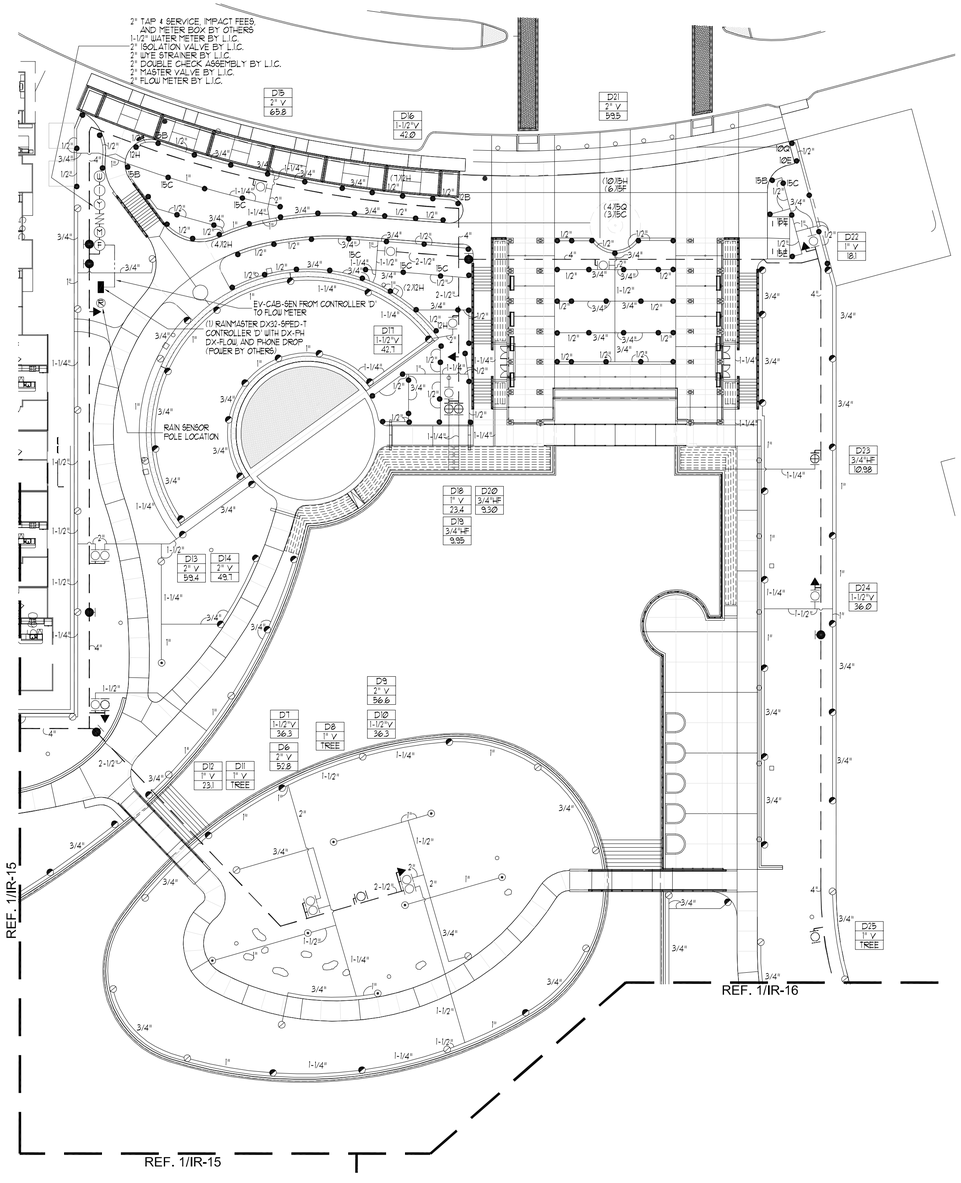
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PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	SAH	KEL	NOV 03 2009	PW # 2009-04	IR-16

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PARK IMPROVEMENTS



NOTE: REFERENCE IR-23 FOR TREE IRRIGATION.

1
IR-17
Northern Park Area - A, Irrigation Plan

0' 15' 30' 60'

IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
●	LAWN SPRAY HEAD	RAINBIRD (30 PSI)	1804 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊘	HIGH-POP SPRAY HEAD	RAINBIRD (30 PSI)	182 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	1804 W/ HUNTER PCN-10 NOZZLE UNLESS OTHERWISE NOTED
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	1804 W/ HUNTER PCN-10 NOZZLE UNLESS OTHERWISE NOTED
■	LAWN CENTER STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ #5667T NOZZLE
□	LAWN END STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ #5RCS OR #5LCS NOZZLE
◥	HIGH-POP CENTER STRIP HEAD	RAINBIRD (30 PSI)	182 W/ #5667T NOZZLE
◹	HIGH-POP END STRIP HEAD	RAINBIRD (30 PSI)	182 W/ #5RCS OR #5LCS NOZZLE
⊛	SMALL ROTARY	HUNTER (40 PSI)	PSU-4 W/ #3 NOZZLE
◑	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #10 NOZZLE
⊛	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ #10 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #4.0 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #8.0 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ #4.0 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40PSI)	I-20-12 W/ #8.0 NOZZLE
▲	QUICK COUPLING VALVE	BUCKNER	4VDTB-DNP WITH SPEARS BALL VALVE, PURPLE LID READS 'NON-POTABLE - NOT SAFE FOR DRINKING' IN ENGLISH AND SPANISH
⍁	REMOTE CONTROL VALVE	IRRITROL	200S OMNI-REG SERIES WITH SPEARS BALL VALVE, REFER TO PLANS FOR SIZE
⍥	BALL VALVE	SPEARS	COMPACT 'T'-HANDLE' - LINE SIZE
⍥	GATE VALVE	MATCO	40RT SERIES - LINE SIZE
▬	CONTROLLER	RAINMASTER	EVOLUTION DX-2 SERIES WITH MINICLIK RAIN/FREEZE SENSOR
—— ——	MAINLINE PIPING	REFER TO SPEC.	4" AND LARGER - CLASS 200 PVC-GASKET JOINTS 3" AND 2-1/2" - CLASS 200 PVC-SOLVENT WELD JOINTS 2" AND SMALLER - SCHEDULE 40 PVC-SOLVENT WELD JOINTS
——	LATERAL PIPING	REFER TO SPEC.	3/4" & LARGER - CLASS 200 PVC 1/2" - CLASS 315 PVC
⍁	REMOTE CONTROL DRIP VALVE	NETAFIM	1"VCZ200TS-HF LOW VOLUME CONTROL ZONE KIT W/ BALL VALVE, REFER TO PLAN FOR LOCATION
——	DISTRIBUTION TUBING	NETAFIM	POLYETHYLENE TUBING W/ TLO6 SOIL STAPLES
⋯⋯	PLANTING BED TECHLINE TUBING	NETAFIM	TLCVR-2 WITH TECHLINE BARBED FITTINGS, TLSK SOIL STAPLES AND 18-P-01 TECHLINE FLAGS
⍁	BACKFLOW PREVENTER	WATTS	909TH SERIES, REFER TO PLANS FOR SIZE
Ⓜ	WATER METER	REFER TO SPEC.	PER LOCAL BUILDING CODE
⍁	ISOLATION VALVE	NIBCO	T-113 SERIES, REFER TO PLANS FOR SIZE
Ⓨ	WYE STRAINER	FEBCO	450 SERIES, REFER TO PLANS FOR SIZE
Ⓕ	FLOW METER	DATA INDUSTRIAL	96-P SERIES, REFER TO PLANS FOR SIZE
Ⓜ	MASTER VALVE	IRRITROL	200S SERIES, REFER TO PLAN FOR SIZE
▤	STATION NUMBER VALVE SIZE GPM (APPROX.)		

STATE OF TEXAS
SETHA HEIDMAN
5881
LICENSED IRRIGATOR
11-3-09

ISSUE FOR BID

IRRI-TECH LLC

Irrigation Consultant SETH HEIDMAN
Lic. No. 5881 Date 11/03/09
BID

NO.	REVISION	BY	DATE

Addison. TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

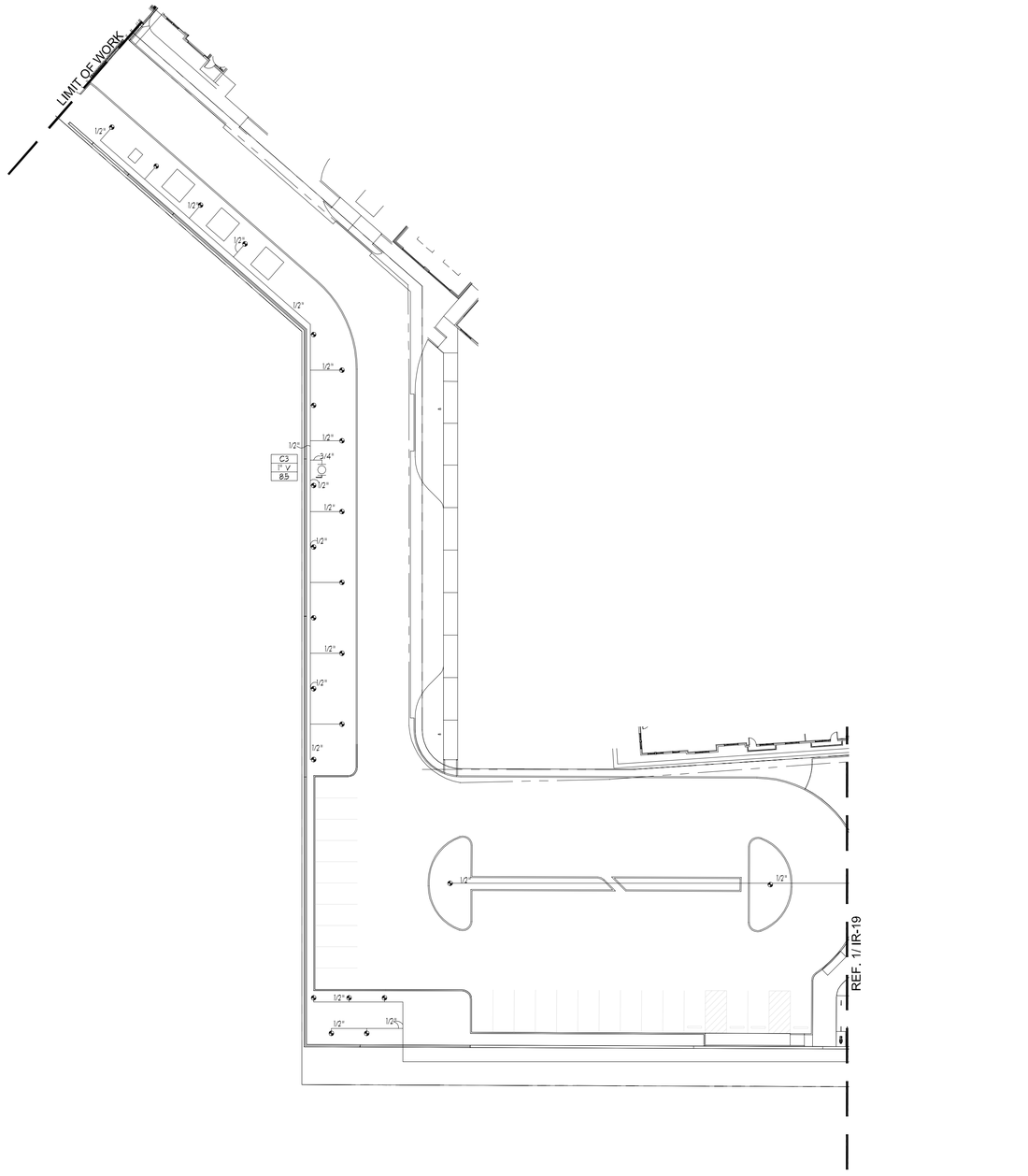
NORTHERN PARK AREA - A IRRIGATION PLAN

IRRI*TECH LLC.
Irrigation Technology
12650 Schroeder Rd.
Dallas, Texas 75243
IT Job No. 08352
(972) 231-5151

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	SAH	KEL	NOV 03 2009	PW # 2009-04	IR-17

PARK IMPROVEMENTS

Registered Texas is required for the Texas Commission of Environmental Quality (TCEQ), MC-176, P.O. Box 13087, Austin, Texas 78711-3087. TCEQ website is: www.tceq.state.tx.us



1 IR-18 Southern Parking Area and Drive, Irrigation Tree Plan

0' 15' 30' 60'

IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
●	LAWN SPRAY HEAD	RAINBIRD (30 PSI)	1804 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊘	HIGH-POP SPRAY HEAD	RAINBIRD (30 PSI)	192 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	1804 W/ HUNTER PCN-10 NOZZLE UNLESS OTHERWISE NOTED
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	1804 W/ HUNTER PCN-10 NOZZLE UNLESS OTHERWISE NOTED
■	LAWN CENTER STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ #5667T NOZZLE
□	LAWN END STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ #5RCS OR #5LCS NOZZLE
◪	HIGH-POP CENTER STRIP HEAD	RAINBIRD (30 PSI)	192 W/ #5667T NOZZLE
◪	HIGH-POP END STRIP HEAD	RAINBIRD (30 PSI)	192 W/ #5RCS OR #5LCS NOZZLE
⊛	SMALL ROTARY	HUNTER (40 PSI)	PGJ-4 W/ #23 NOZZLE
◑	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #.0 NOZZLE
⊛	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ #.0 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #.0 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #8.0 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ #.0 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40PSI)	I-20-12 W/ #8.0 NOZZLE
▲	QUICK COUPLING VALVE	BUCKNER	*VQTB-DNP WITH SPEARS BALL VALVE, PURPLE LID READS "NON-POTABLE, NOT SAFE FOR DRINKING" IN ENGLISH AND SPANISH
⊠	REMOTE CONTROL VALVE	IRRITROL	2000S OMNI-REG SERIES WITH SPEARS BALL VALVE, REFER TO PLANS FOR SIZE
⊘	BALL VALVE	SPEARS	COMPACT "T-HANDLE"- LINE SIZE
⊘	GATE VALVE	MATCO	*ORIT SERIES - LINE SIZE
▬	CONTROLLER	RAINMASTER	EVOLUTION DX-2 SERIES WITH MINICLIK RAIN/FREEZE SENSOR
— —	MAINLINE PIPING	REFER TO SPEC.	4" AND LARGER - CLASS 200 PVC-GASKET JOINTS 3" AND 2-1/2" - CLASS 200 PVC-SOLVENT WELD JOINTS 2" AND SMALLER - SCHEDULE 40 PVC-SOLVENT WELD JOINTS
———	LATERAL PIPING	REFER TO SPEC.	3/4" + LARGER - CLASS 200 PVC 1" - CLASS 315 PVC
KBH	REMOTE CONTROL DRIP VALVE	NETAFIM	*LVC220DTS-HF LOW VOLUME CONTROL ZONE KIT W/ BALL VALVE, REFER TO PLAN FOR LOCATION
———	DISTRIBUTION TUBING	NETAFIM	POLYETHYLENE TUBING W/ TLO6 SOIL STAPLES
⋮⋮⋮⋮	PLANTING BED TECHLINE TUBING	NETAFIM	TLCVB-12 WITH TECHLINE BARBED FITTINGS, TLSK SOIL STAPLES AND 10-FT-ST TECHLINE FLAGS
NN	BACKFLOW PREVENTER	WATTS	909TH SERIES, REFER TO PLANS FOR SIZE
Ⓜ	WATER METER	REFER TO SPEC.	PER LOCAL BUILDING CODE
I	ISOLATION VALVE	NIBCO	T-113 SERIES, REFER TO PLANS FOR SIZE
Y	Y-TE STRAINER	FEBCO	*350 SERIES, REFER TO PLANS FOR SIZE
Ⓕ	FLOW METER	DATA INDUSTRIAL	*15-P SERIES, REFER TO PLANS FOR SIZE
M	MASTER VALVE	IRRITROL	2000S SERIES, REFER TO PLAN FOR SIZE
☰	STATION NUMBER VALVE SIZE GPM (APPROX.)		

STATE OF TEXAS · SETH A. HEIDMAN · 5881 · LICENSED IRRIGATOR · 11-3-09

ISSUE FOR BID

IRRI-TECH LLC

Irrigation Consultant SETH HEIDMAN

Lic. No. 5881 Date 11/03/09 BID

NO.	REVISION	BY	DATE

Addison. *TOWN OF ADDISON*
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

SOUTHERN PARKING AREA AND DRIVE IRRIGATION TREE PLAN

IRRI*TECH LLC.
Irrigation Technology

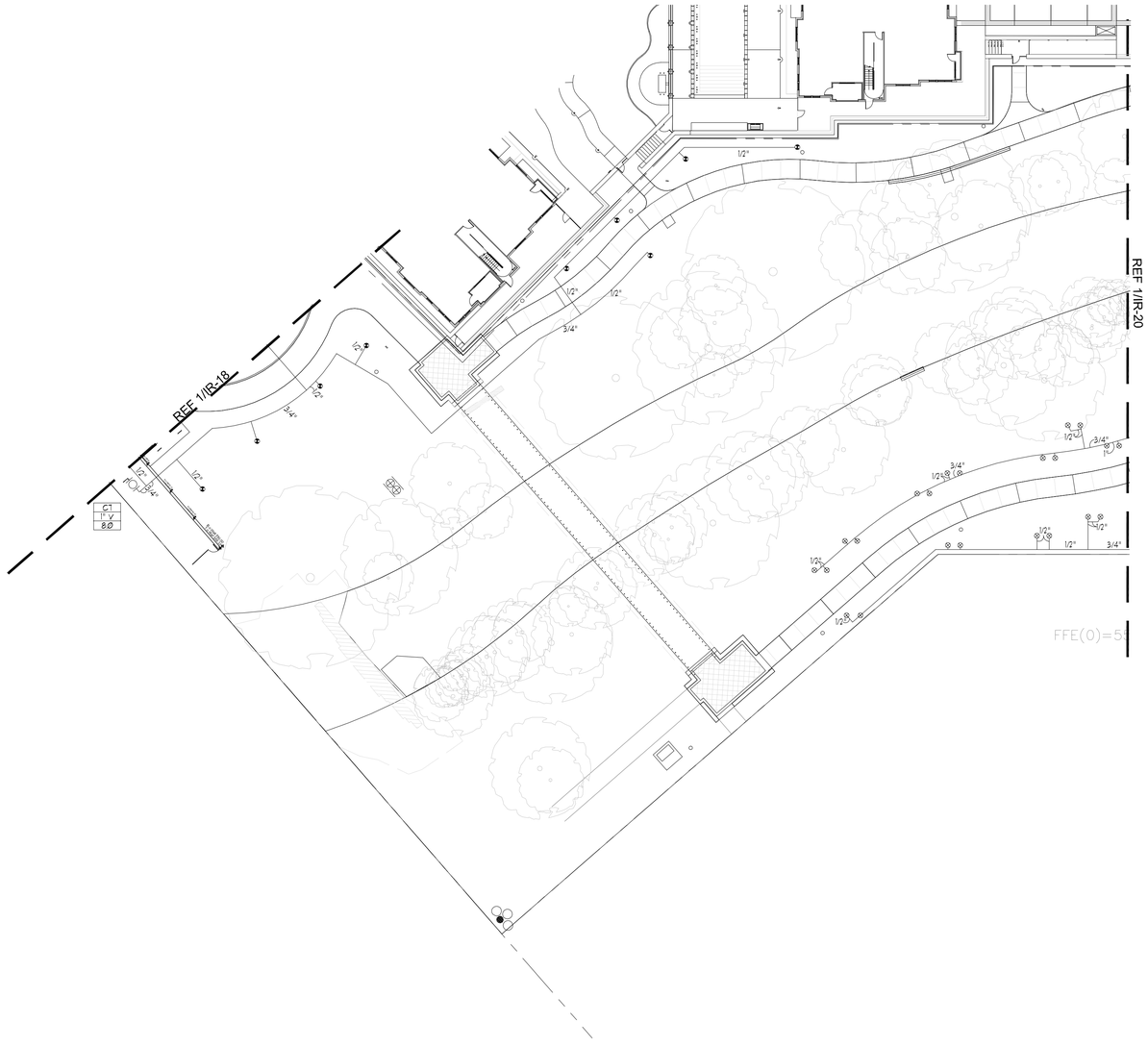
12650 Schroeder Rd.
Dallas, Texas 75243

IT Job No. 08352
(972) 231-5151

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	SAH	KEL	NOV 03 2009	PW # 2009-04	IR-18

PARK IMPROVEMENTS

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1
IR-19

Southern Parking Area and Drive, Irrigation Tree Plan

0' 15' 30' 60'

IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
●	LAWN SPRAY HEAD	RAINBIRD /30 PSI/	1804 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊘	HIGH-POP SPRAY HEAD	RAINBIRD /30 PSI/	192 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊕	TREE BUBBLER HEAD	HUNTER /30 PSI/	1804 W/ HUNTER PCN-10 NOZZLE UNLESS OTHERWISE NOTED
⊕	TREE BUBBLER HEAD	HUNTER /30 PSI/	1804 W/ HUNTER PCN-10 NOZZLE UNLESS OTHERWISE NOTED
■	LAWN CENTER STRIP HEAD	RAINBIRD /30 PSI/	1804 W/ #5667T NOZZLE
□	LAWN END STRIP HEAD	RAINBIRD /30 PSI/	1804 W/ #5RCS OR #5LCS NOZZLE
◥	HIGH-POP CENTER STRIP HEAD	RAINBIRD /30 PSI/	192 W/ #5667T NOZZLE
◹	HIGH-POP END STRIP HEAD	RAINBIRD /30 PSI/	192 W/ #5RCS OR #5LCS NOZZLE
⊛	SMALL ROTARY	HUNTER /40 PSI/	PGJ-4 W/ #3 NOZZLE
◑	SMALL ROTARY PART-CIRCLE	HUNTER /40 PSI/	I-20-4 W/ #10 NOZZLE
⊛	SMALL ROTARY PART-CIRCLE	HUNTER /40 PSI/	I-20-12 W/ #10 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER /40 PSI/	I-20-4 W/ #14 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER /40 PSI/	I-20-4 W/ #18 NOZZLE
⊛	ROTARY PART-CIRCLE	HUNTER /40 PSI/	I-20-12 W/ #14 NOZZLE
⊛	ROTARY FULL-CIRCLE	HUNTER /40PSI/	I-20-12 W/ #18 NOZZLE
▲	QUICK COUPLING VALVE	BUCKNER	"VQTB-DNP WITH SPEARS BALL VALVE, PURPLE LID READS "NON-POTABLE, NOT SAFE FOR DRINKING" IN ENGLISH AND SPANISH
⍰	REMOTE CONTROL VALVE	IRRITROL	200DS OMNI-REG SERIES WITH SPEARS BALL VALVE REFER TO PLANS FOR SIZE
⍥	BALL VALVE	SPEARS	COMPACT "T-HANDLE"- LINE SIZE
⍟	GATE VALVE	MATCO	"ORIT SERIES - LINE SIZE
▬	CONTROLLER	RAINMASTER	EVOLUTION DX-2 SERIES WITH MINICLIK RAIN/FREEZE SENSOR
— —	MAINLINE PIPING	REFER TO SPEC.	4" AND LARGER - CLASS 200 PVC-GASKET JOINTS 3" AND 2-1/2" - CLASS 200 PVC-SOLVENT WELD JOINTS 2" AD SMALLER - SCHEDULE 40 PVC-SOLVENT WELD JOINTS
———	LATERAL PIPING	REFER TO SPEC.	3/4" & LARGER - CLASS 200 PVC 1" - CLASS 315 PVC
⍰	REMOTE CONTROL DRIP VALVE	NETAFIM	"LVC200TB-HF LOW VOLUME CONTROL ZONE KIT W/ BALL VALVE. REFER TO PLAN FOR LOCATION
———	DISTRIBUTION TUBING	NETAFIM	POLYETHYLENE TUBING W/ TLD6 SOIL STAPLES
⋯⋯	PLANTING BED TECHLINE TUBING	NETAFIM	TLCV6-12 WITH TECHLINE BARBED FITTINGS. TLSK SOIL STAPLES AND 10-P-01 TECHLINE FLAGS
⍰	BACKFLOW PREVENTER	WATTS	909TH SERIES, REFER TO PLANS FOR SIZE
Ⓜ	WATER METER	REFER TO SPEC.	PER LOCAL BUILDING CODE
⍰	ISOLATION VALVE	NIBCO	T-113 SERIES, REFER TO PLANS FOR SIZE
⍰	Y/Z STRAINER	FEBCO	450 SERIES, REFER TO PLANS FOR SIZE
Ⓕ	FLOW METER	DATA INDUSTRIAL	"6-P SERIES, REFER TO PLANS FOR SIZE
Ⓜ	MASTER VALVE	IRRITROL	200DS SERIES, REFER TO PLAN FOR SIZE
▤	STATION NUMBER VALVE SIZE GPM (APPROX.)		

STATE OF TEXAS
SETHA HEIDMAN
5881
LICENSED IRRIGATOR
11-3-09

ISSUE FOR BID

IRRI-TECH LLC

Irrigation Consultant SETH HEIDMAN
Lic. No. 5881 *Date* 11/03/09
BID

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

SOUTHERN PARKING AREA AND DRIVE IRRIGATION TREE PLAN

IRRI*TECH LLC.
Irrigation Technology

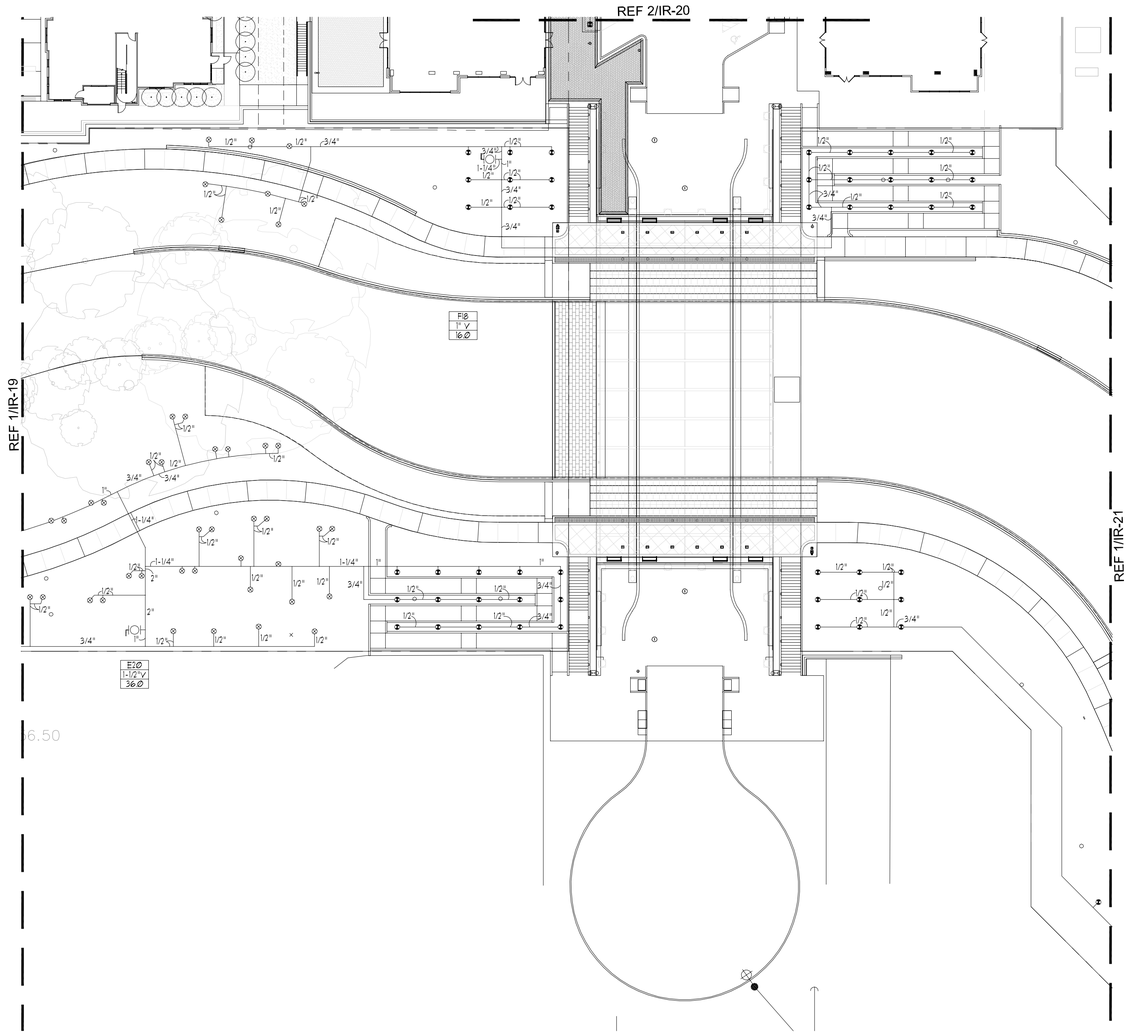
12650 Schroeder Rd.
Dallas, Texas 75243

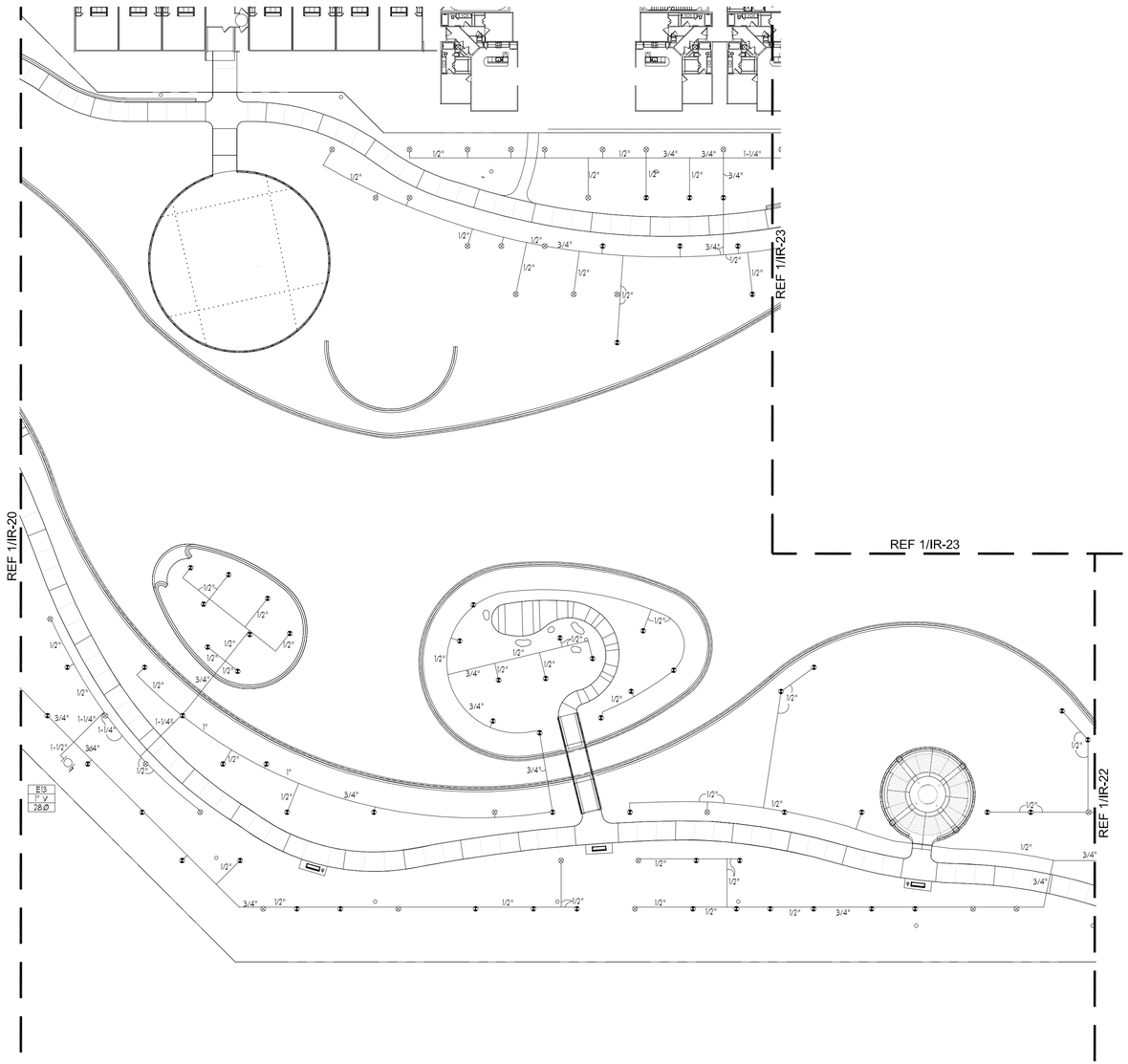
IT Job No. 08352
(972) 231-5151

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	SAH	KEL	NOV 03 2009	PW # 2009-04	IR-19

PARK IMPROVEMENTS

Respecting Texas is required for the Texas Commission of Environmental Quality (TCEQ). MC-176, P.O. Box 13087, Austin, Texas 78711-3087. TCEQ website is: www.respectstx.org


REF 2/IR-20
REF 1/IR-19
REF 1/IR-21
F1Ø
1" V
16Ø
E2Ø
1-1/2" V
36Ø
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3/4"
1/2" 1/2



1
IR-21
Southern Park Area - B, Irrigation Tree Plan

0' 15' 30' 60'

IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
●	LAWN SPRAY HEAD	RAINBIRD (30 PSI)	1804 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊘	HIGH-POP SPRAY HEAD	RAINBIRD (30 PSI)	182 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	1804 W/ HUNTER PCN-10 NOZZLE UNLESS OTHERWISE NOTED
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	1804 W/ HUNTER PCN-20 NOZZLE UNLESS OTHERWISE NOTED
■	LAWN CENTER STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ #5668TT NOZZLE
□	LAWN END STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ #5RCS OR #5LCS NOZZLE
■	HIGH-POP CENTER STRIP HEAD	RAINBIRD (30 PSI)	182 W/ #5668TT NOZZLE
□	HIGH-POP END STRIP HEAD	RAINBIRD (30 PSI)	182 W/ #5RCS OR #5LCS NOZZLE
⊛	SMALL ROTARY	HUNTER (40 PSI)	PSU-4 W/ #23 NOZZLE
◑	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #.0 NOZZLE
⊛	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ #.0 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #4.0 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #8.0 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ #4.0 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40PSI)	I-20-12 W/ #8.0 NOZZLE
▲	QUICK COUPLING VALVE	BUCKNER	7VQTB-DNP WITH SPEARS BALL VALVE, PURPLE LID READS 'NON-POTABLE, NOT SAFE FOR DRINKING' IN ENGLISH AND SPANISH
⊠	REMOTE CONTROL VALVE	IRRITROL	200BS OMNI-REG SERIES WITH SPEARS BALL VALVE, REFER TO PLANS FOR SIZE
⊘	BALL VALVE	SPEARS	COMPACT 'T'-HANDLE' - LINE SIZE
⊘	GATE VALVE	MATCO	40RT SERIES - LINE SIZE
▬	CONTROLLER	RAINMASTER	EVOLUTION EX-2 SERIES WITH MINICLIK RAIN/FREEZE SENSOR
— —	MAINLINE PIPING	REFER TO SPEC.	4" AND LARGER - CLASS 200 PVC-GASKET JOINTS 3" AND 2-1/2" - CLASS 200 PVC-SOLVENT WELD JOINTS 2" AND SMALLER - SCHEDULE 40 PVC-SOLVENT WELD JOINTS
———	LATERAL PIPING	REFER TO SPEC.	3/4" & LARGER - CLASS 200 PVC 1/2" - CLASS 315 PVC
⊠	REMOTE CONTROL DRIP VALVE	NETAFIM	'LVC200TS-HF LOW VOLUME CONTROL ZONE KIT W/ BALL VALVE, REFER TO PLAN FOR LOCATION
———	DISTRIBUTION TUBING	NETAFIM	POLYETHYLENE TUBING W/ TLD66 SOIL STAPLES
⋮⋮⋮⋮	PLANTING BED TECHLINE TUBING	NETAFIM	TLCV6-12 WITH TECHLINE BARBED FITTINGS, TLD66 SOIL STAPLES, AND 10-FT-0" TECHLINE FLAGS
NN	BACKFLOW PREVENTER	WATTS	700TH SERIES, REFER TO PLANS FOR SIZE
Ⓜ	WATER METER	REFER TO SPEC.	PER LOCAL BUILDING CODE
⊙	ISOLATION VALVE	NIBCO	T-113 SERIES, REFER TO PLANS FOR SIZE
⊙	Y/Z STRAINER	FEBCO	9ØØ SERIES, REFER TO PLANS FOR SIZE
Ⓕ	FLOW METER	DATA INDUSTRIAL	9TG-P SERIES, REFER TO PLANS FOR SIZE
Ⓜ	MASTER VALVE	IRRITROL	200BS SERIES, REFER TO PLAN FOR SIZE
▭	STATION NUMBER VALVE SIZE GPM (APPROX.)		

STATE OF TEXAS
SETH A. HEIDMAN
5881
LICENSED IRRIGATOR
11-3-09

ISSUE FOR BID

IRRI-TECH LLC

Irrigation Consultant SETH HEIDMAN
Lic. No. 5881 Date 11/03/09
BID

NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

SOUTHERN PARK AREA -B IRRIGATION TREE PLAN

IRRI*TECH LLC.
Irrigation Technology

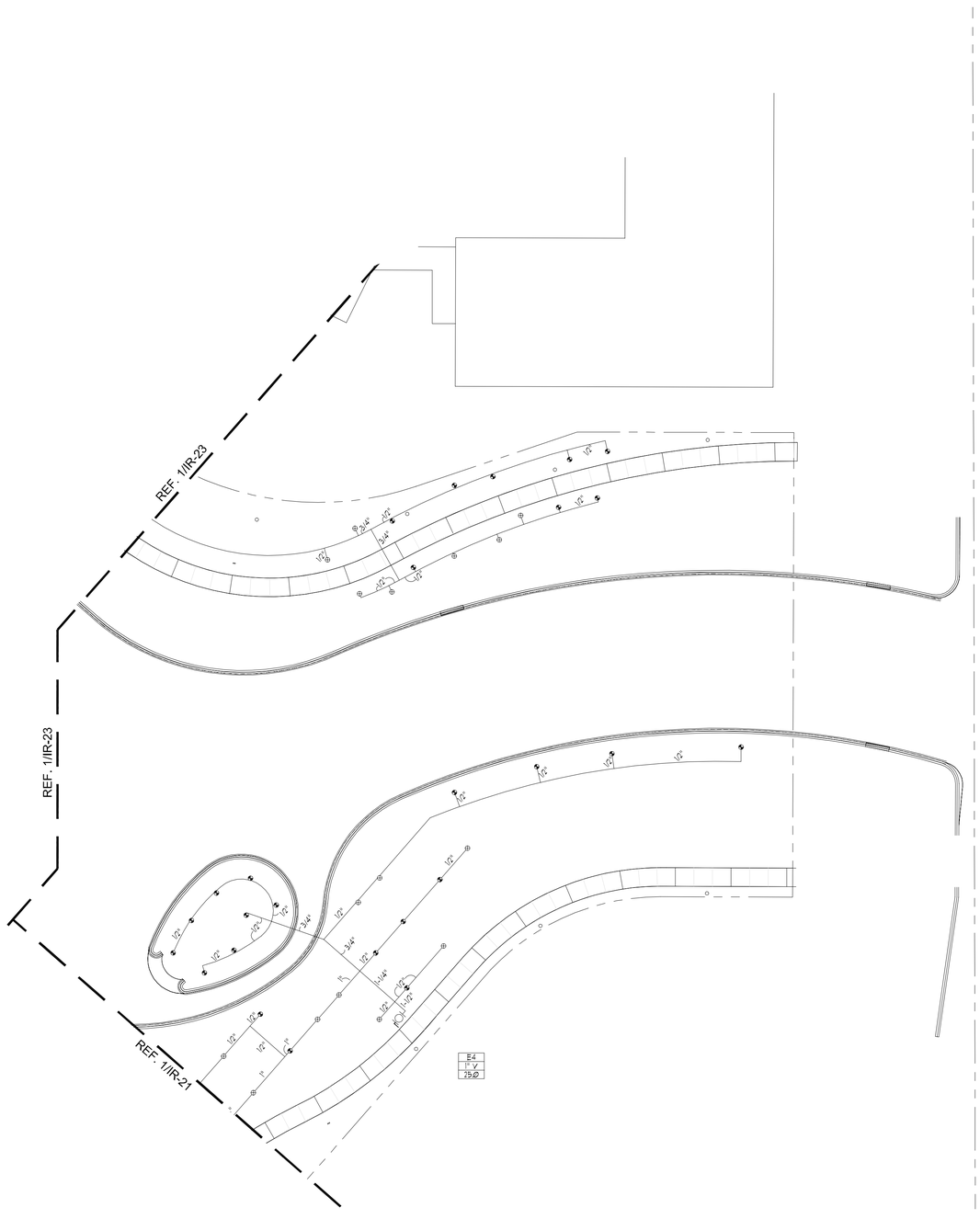
12650 Schroeder Rd.
Dallas, Texas 75243

IT Job No. 08352
(972) 231-5151

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	SAH	KEL	NOV 03 2009	PW # 2009-04	IR-21

PARK IMPROVEMENTS

Irrigation in Texas is regulated by the Texas Commission on Environmental Quality (TCEQ), MC-178, P.O. Box 13087, Austin, Texas, 78711-3087. TCEQ website: www.tceq.state.tx.us



1
IR-22

Southern Park Area - C, Irrigation Tree Plan

0' 15' 30' 60'

IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
●	LAWN SPRAY HEAD	RAINBIRD (30 PSI)	1804 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊘	HIGH-POP SPRAY HEAD	RAINBIRD (30 PSI)	192 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	1804 W/ HUNTER PCN-10 NOZZLE UNLESS OTHERWISE NOTED
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	1804 W/ HUNTER PCN-10 NOZZLE UNLESS OTHERWISE NOTED
■	LAWN CENTER STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ #5556TT NOZZLE
□	LAWN END STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ #5RCS OR #5LCS NOZZLE
◥	HIGH-POP CENTER STRIP HEAD	RAINBIRD (30 PSI)	192 W/ #5556TT NOZZLE
◹	HIGH-POP END STRIP HEAD	RAINBIRD (30 PSI)	192 W/ #5RCS OR #5LCS NOZZLE
⊛	SMALL ROTARY	HUNTER (40 PSI)	PGJ-4 W/ #3 NOZZLE
◑	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #.8 NOZZLE
⊛	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ #.8 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #4.0 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #8.0 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ #4.0 NOZZLE
♣	ROTARY FULL-CIRCLE	HUNTER (40PSI)	I-20-12 W/ #8.0 NOZZLE
▲	QUICK COUPLING VALVE	BUCKNER	4VQTB-DNP WITH SPEARS BALL VALVE, PURPLE LID READS 'NON-POTABLE, NOT SAFE FOR DRINKING' IN ENGLISH AND SPANISH
⊠	REMOTE CONTROL VALVE	IRRITROL	200BS OMNI-REG SERIES WITH SPEARS BALL VALVE, REFER TO PLANS FOR SIZE
⊘	BALL VALVE	SPEARS	COMPACT 'T'-HANDLE'- LINE SIZE
⊘	GATE VALVE	MATCO	40RT SERIES - LINE SIZE
▬	CONTROLLER	RAINMASTER	EVOLUTION EX-1 SERIES WITH MINICLIK RAIN/FREEZE SENSOR
—— ——	MAINLINE PIPING	REFER TO SPEC.	4" AND LARGER - CLASS 200 PVC-GASKET JOINTS 3" AND 2-1/2" - CLASS 200 PVC-SOLVENT WELD JOINTS 2" AND SMALLER - SCHEDULE 40 PVC-SOLVENT WELD JOINTS
——	LATERAL PIPING	REFER TO SPEC.	3/4" & LARGER - CLASS 200 PVC 1" - CLASS 315 PVC
⊠	REMOTE CONTROL DRIP VALVE	NETAFIM	'LVC200TS-HF LOW VOLUME CONTROL ZONE KIT W/ BALL VALVE, REFER TO PLAN FOR LOCATION
——	DISTRIBUTION TUBING	NETAFIM	POLYETHYLENE TUBING W/ TLD6 SOIL STAPLES
⋯⋯	PLANTING BED TECHLINE TUBING	NETAFIM	TLCV6-12 WITH TECHLINE BARBED FITTINGS, TLD6 SOIL STAPLES, AND 18-P-01 TECHLINE FLAGS
NN	BACKFLOW PREVENTER	WATTS	900TH SERIES, REFER TO PLANS FOR SIZE
Ⓜ	WATER METER	REFER TO SPEC.	PER LOCAL BUILDING CODE
⊘	ISOLATION VALVE	NIBCO	T-113 SERIES, REFER TO PLANS FOR SIZE
⊘	SITE STRAINER	FEBCO	765D SERIES, REFER TO PLANS FOR SIZE
Ⓕ	FLOW METER	DATA INDUSTRIAL	465-P SERIES, REFER TO PLANS FOR SIZE
⊠	MASTER VALVE	IRRITROL	200BS SERIES, REFER TO PLAN FOR SIZE
▤	STATION NUMBER VALVE SIZE GPM (APPROX.)		

STATE OF TEXAS
SETH A. HEIDMAN
5881
LICENSED IRRIGATOR
11-3-09

ISSUE FOR BID

IRRI-TECH LLC

Irrigation Consultant SETH HEIDMAN
Lic. No. 5881 Date 11/03/09
BID

NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

SOUTHERN PARK AREA -C IRRIGATION TREE PLAN

IRRI*TECH LLC.
Irrigation Technology

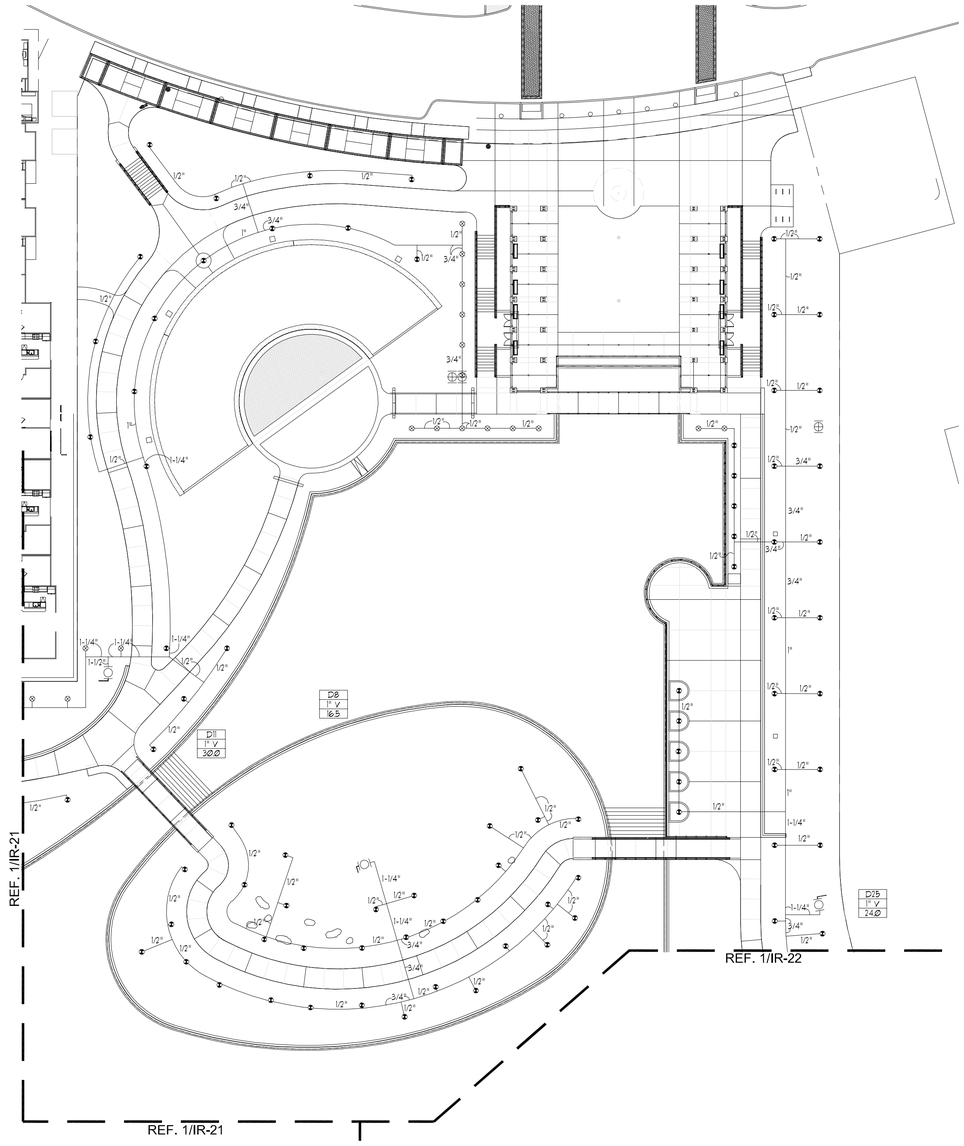
12650 Schroeder Rd.
Dallas, Texas 75243

IT Job No. 08352
(972) 231-5151

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	SAH	KEL	NOV 03 2009	PW # 2009-04	IR-22

PARK IMPROVEMENTS

Irrigation Plans is regulated by the Texas Commission of Environmental Quality (TCEQ), MC-178, P.O. Box 13087, Austin, Texas 78711-3087, TCEQ.state.tx.us www.tceq.state.tx.us



1
IR-23 Northern Park Area - A, Irrigation Tree Plan

0' 15' 30' 60'

IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
●	LAWN SPRAY HEAD	RAINBIRD (30 PSI)	1804 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊘	HIGH-POP SPRAY HEAD	RAINBIRD (30 PSI)	192 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	1804 W/ HUNTER PCN-10 NOZZLE UNLESS OTHERWISE NOTED
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	1804 W/ HUNTER PCN-10 NOZZLE UNLESS OTHERWISE NOTED
■	LAWN CENTER STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ #5667T NOZZLE
□	LAWN END STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ #5RCS OR #5LCS NOZZLE
■	HIGH-POP CENTER STRIP HEAD	RAINBIRD (30 PSI)	192 W/ #5667T NOZZLE
□	HIGH-POP END STRIP HEAD	RAINBIRD (30 PSI)	192 W/ #5RCS OR #5LCS NOZZLE
⊛	SMALL ROTARY	HUNTER (40 PSI)	PGJ-4 W/ #3 NOZZLE
◑	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #10 NOZZLE
⊛	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ #10 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #14 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #18 NOZZLE
⊙	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ #14 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40PSI)	I-20-12 W/ #18 NOZZLE
▲	QUICK COUPLING VALVE	BUCKNER	4VQTB-DNP WITH SPEARS BALL VALVE, PURPLE LID READS 'NON-POTABLE, NOT SAFE FOR DRINKING' IN ENGLISH AND SPANISH
⊠	REMOTE CONTROL VALVE	IRRITROL	200DS OMNI-REG SERIES WITH SPEARS BALL VALVE REFER TO PLANS FOR SIZE
⊘	BALL VALVE	SPEARS	COMPACT 'T'-HANDLE'- LINE SIZE
⊘	GATE VALVE	MUELLER	4064 SERIES - LINE SIZE
▬	CONTROLLER	RAINMASTER	EVOLUTION DX-1 SERIES WITH MYCLIK RAIN/FREEZE SENSOR
—— ——	MAINLINE PIPING	REFER TO SPEC.	4" AND LARGER - CLASS 200 PVC-GASKET JOINTS 3" AND 2-1/2" - CLASS 200 PVC-SOLVENT WELD JOINTS 2" AND SMALLER - SCHEDULE 40 PVC-SOLVENT WELD JOINTS
——	LATERAL PIPING	REFER TO SPEC.	3/4" & LARGER - CLASS 200 PVC 1/2" - CLASS 315 PVC
⊠	REMOTE CONTROL DRIP VALVE	NETAFIM	1"XCZ200TB-HF LOW VOLUME CONTROL ZONE KIT W/ BALL VALVE. REFER TO PLAN FOR LOCATION
——	DISTRIBUTION TUBING	NETAFIM	POLYETHYLENE TUBING W/ TLD6 SOIL STAPLES
⋮⋮⋮	PLANTING BED TECHLINE TUBING	NETAFIM	TLCV6-12 WITH TECHLINE BARBED FITTINGS. TLSK SOIL STAPLES AND 10-P-01 TECHLINE FLAGS
⋀⋁	BACKFLOW PREVENTER	WATTS	909TH SERIES. REFER TO PLANS FOR SIZE
Ⓜ	WATER METER	REFER TO SPEC.	PER LOCAL BUILDING CODE
⊘	ISOLATION VALVE	NIBCO	T-113 SERIES. REFER TO PLANS FOR SIZE
Ⓨ	Y/E STRAINER	FEBCO	765D SERIES. REFER TO PLANS FOR SIZE
Ⓕ	FLOW METER	DATA INDUSTRIAL	915-P SERIES. REFER TO PLANS FOR SIZE
Ⓜ	MASTER VALVE	IRRITROL	200DS SERIES. REFER TO PLAN FOR SIZE
	STATION NUMBER VALVE SIZE GPM (APPROX.)		

STATE OF TEXAS · SETH A. HEIDMAN · 5881 · LICENSED IRRIGATOR · 11-3-09

ISSUE FOR BID

IRRI-TECH LLC

Irrigation Consultant SETH HEIDMAN
Lic. No. 5881 Date 11/03/09
BID

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

NORTHERN PARK AREA - A IRRIGATION TREE PLAN

IRRI*TECH LLC.
Irrigation Technology
12650 Schroeder Rd.
Dallas, Texas 75243
IT Job No. 08352
(972) 231-5151

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	SAH	KEL	NOV 03 2009	PW # 2009-04	IR-23

PARK IMPROVEMENTS

Registered Texas Irrigator Irrigation Consultants of Southwest Texas, P.O. Box 1447, Alvin, Texas 77512-1447. TCEQ website: www.txlicensed.com

NOTES:

1. ALL 24 VOLT LEAD AND COMMON VALVE WIRING SHALL BE A MINIMUM OF UF-14 GA. SINGLE CONDUCTOR, REFER TO MANUFACTURER'S RECOMMENDATIONS FOR PROPER WIRE SIZE. WIRE SPLICES SHALL BE PERMANENT AND WATERPROOF.
2. COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH LANDSCAPE CONTRACTOR TO ENSURE ALL PLANT MATERIAL WILL BE WATERED IN ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS.
3. LATERAL PIPING SHALL HAVE A MINIMUM OF 12" OF COVER. MAINLINE AND PIPING UNDER PAVING SHALL HAVE A MINIMUM OF 18" OF COVER. USE WELD-ON #105 SOLVENT AND #P-68 PRIMER FOR PVC CONNECTIONS.
4. PIPING AND VALVES IN PAVING SHOWN FOR CLARITY, INSTALL IN ADJACENT PLANTING BED OR LAWN AREA.
5. CONNECT LAWN AND HIGH-POP SPRAY HEADS TO LATERAL PIPING WITH 1/2" THREADED GREEN POLY NIPPLE AS REQUIRED, PER DETAIL SHOWN. USE TURF-TITE SOLVENT AND TURF-TITE PRIMER ON THESE CONNECTIONS.
6. CONNECT ROTARY HEADS TO LATERAL PIPE WITH LASCO "UNITIZED", O-RING SWING JOINTS PER DETAIL SHOWN, #T722-212.
7. INSTALL QUICK COUPLING VALVES IN TWELVE BY SEVENTEEN (12"x17") INCH PENTEK VALVE BOX PER DETAIL SHOWN. CONNECT QUICK COUPLING VALVES TO MAINLINE PIPE WITH LASCO "UNITIZED", O-RING SWING JOINTS PER DETAIL SHOWN, #T722-212. SUPPLY OWNER WITH THREE (3) COUPLER KEYS WITH SWIVEL HOSE BIBB EACH, #33DK-10 AND #SH-0 RESPECTIVELY. VALVES TO BE INSTALLED SO THAT TOP OF QUICK COUPLER IS 2" BELOW BOTTOM OF VALVE BOX TOP. PURPLE LID READS "NON-POTABLE, NOT SAFE FOR DRINKING" IN ENGLISH AND SPANISH.
8. INSTALL ALL REMOTE CONTROL VALVES IN A TWELVE BY SEVENTEEN (12"x17") INCH PENTEK VALVE BOXES PER DETAIL SHOWN.
9. PERFORM ELECTRICAL WORK IN ACCORDANCE WITH LOCAL BUILDING CODE. POWER (120V) SHALL BE LOCATED IN A JUNCTION BOX AND HARDWIRED WITHIN FIVE (5') FEET OF CONTROLLER LOCATION BY OTHER TRADES.
10. ALL SLEEVES ARE EXISTING UNLESS OTHERWISE NOTES.
11. LANDSCAPE IRRIGATION CONTRACTOR TO PROVIDE TRACE TAPE FOR ALL MAINLINE.
12. CONTRACTOR TO INSTALL AND ADJUST VAN SERIES NOZZLES FOR SITUATIONS THAT REQUIRE LESS THAN 90° DEGREE RADIUS SPRAY.
13. TEN DAYS PRIOR TO START OF CONSTRUCTION, VERIFY STATIC PRESSURE. IF STATIC PRESSURE IS LESS THAN 81.0 PSI, DO NOT START WORK UNTIL NOTIFIED TO PROCEED BY OWNER. DESIGN PRESSURE IS 64.0 PSI.
14. MINIMUM DISTANCE BETWEEN MAIN LINE AND LATERAL LINE FITTINGS (EXCEPT FOR REDUCER BUSHINGS) TO BE 18".
15. MINIMUM HORIZONTAL DISTANCE OF 36" TO BE MAINTAINED BETWEEN ANY VALVES THAT ARE INSTALLED SIDE BY SIDE.
16. LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO STAKE TREE BUBBLER HEAD LOCATIONS AND RECEIVE APPROVAL FROM OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
17. ALL FOUR-INCH MAINLINE SHALL HAVE A MAXIMUM OF TWENTY-EIGHT (28") INCHES AND A MINIMUM OF TWENTY-FOUR (24") INCHES OF COVER FROM FINISH GRADE.
18. ALL FITTINGS FOR FOUR (4") INCH PIPE TO BE HARCO DEEP BELL DUCTILE IRON FITTINGS. FITTINGS SHALL HAVE DEEP BELL PUSH-ON JOINTS WITH GASKETS.
19. ALL DEAD END MAINLINES TO BE CAPPED WITH BLIND FLANGE AND THRUST BLOCK. MINIMUM DISTANCE BETWEEN FLANGE AND FITTING TO BE FOUR (4') FEET.
20. CONTRACTOR TO INSTALL DRAIN VALVES WITH TWO-INCH SCHEDULE 40 PVC MAINLINE TO CREEK. L.I.C. TO COORDINATE AND RECIEVE APPROVAL FROM TOWN OF ADDISON.
21. PROVIDE AND INSTALL THRUST BLOCKS AT EACH CHANGE OF DIRECTION AND AT ALL VALVES PER THE MANUFACTURER'S RECOMMENDATION.
22. LANDSCAPE IRRIGATION COTNRACTOR TO PROVIDE ALL LABOR AND MATERIAL NECESSARY TO INSTALL FLOW METERS ON THE DISCHARGE SIDE OF THE BACKFLOW PREVENTER. THERE WILL BE A TOTAL OF SIX (6) FLOW METERS AND RAINMASTER EV-CAB SEN SHIELDED FLOW METER CABLE FOR THIS PROJECT. L.I.C. TO INSTALL FLOW METERS IN 12"x17" PENTEK VALVE BOX.
23. LANDSCAPE IRRIGATION COTNRACTOR TO PROVIDE ALL LABOR AND MATERIAL NECESSARY TO INSTALL RAINMASTER EVOLUTION DX-2 SERIES CONTROLLER WITH STAINLESS STEEL PEDESTAL AND HEAVY DUTY TRANSIENT PROTECTION. L.I.C. TO INCLUDE BUT NOT LIMITED TO SUCH MATERIAL AS DX-03 SENSOR BOARD, DX-PH PHONE COMMUNICATION, FLOW METER, SHIELDED FLOW METER CABLE, RAIN/ FREEZE SENSOR, AND DEDICATED TELEPHONE SERVICE. CONTACT BILL ROSSER WITH JOHN DEERE FOR ANY QUESTIONS.
24. TOWN OF ADDISON IRRIGATION SPECIFICATIONS DATED 05/31/01 WILL SUPERCEDE THE PLANS, DETAILS, AND/OR SPECIFICATIONS FOR THIS PROJECT.
25. LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO STAKE DRIP TECHLINE AND RECEIVE APPROVAL FROM OWNER'S REPRESENTATIVE BEFORE INSTALLATION.
26. LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO PROVIDE DISTRIBUTION TUBING, STAKES, EMITTERS, TRANSFER FITTINGS, DIFFUSER BUG CAP, CONTROL ZONE KITS, ETC. NECESSARY FOR PROPER INSTALLATION OF THE BEDS. ALL PVC HEADER PIPING TO BE 1-1/4" CLASS 200 PVC SOLVENT WELD PIPE.
27. LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO INSERT ALL BARBED FITTINGS PER MANUFACTURER'S RECOMMENDATIONS.
28. ALL TECHLINE AND DISTRIBUTION TUBING TO BE INSTALLED AT FINISH GRADE AND BELOW MULCH LAYER. ALL TECHLINE TO BE INSTALLED ON ONE FOOT ROW SPACING. TUBING TO BE STAKED WITH RAINBIRD TDS-050 12GA. WITH BEND GALVANIZED TIE DOWN STAKES. INSTALL STAKES AT 3'-0" ON CENTER ALONG LENGTH OF TUBING AND A MINIMUM OF 36" FROM ANY FITTINGS.
29. FLUSH VALVES TO BE RAINBIRD EASY FIT FLUSH CAPS INSTALLED IN A SIX-INCH (6") PENTEK ROUND VALVE BOX WITH BROWN LID AND GRAVEL SUMP.
30. LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO INCLUDE THE FOLLOWING ALLOWANCES FOR PROVIDING AND INSTALLING AIR RELIEF VALVES AND FLUSH VALVES FOR THE DRIP SYSTEM. EXACT QUANTITY AND LOCATION OF THESE DEVICES WILL BE DETERMINED AT THE TIME OF INSTALLATION. IN GENERAL, ALL AIR RELIEF VALVES WILL BE INSTALLED AT THE HIGH POINTS AND FLUSH VALVES WILL BE INSTALLED AT THE LOW POINTS. ALLOW FOR APPROXIMATELY ONE HUNDRED TWENTY FOUR (124) AIR RELIEF VALVES AND APPROXIMATELY ONE HUNDRED TWENTY FOUR (124) FLUSH VALVES FOR THIS PROJECT.
31. LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO PROVIDE ONE RAINBIRD XP-1200X XERI-POP MICRO SPRAY WITH 18 SERIES VAN NOZZLE FOR EACH DRIP ZONE TO VERIFY ZONE IS OPERATING. L.I.C. TO TURN VAN NOZZLE TO OFF POSITION.
32. LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO HAND DIG WITHIN ALL EXISTING TREE ROOT ZONES. L.I.C. TO STAKE DITCH LOCATIONS AND RECIEVE APPROVAL FROM TOWN OF ADDISON AND LANDSCAPE ARCHITECT PRIOR TO DIGGING.
33. LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO INSTALL DRAIN VALVES ON PROPOSED FOUR-INCH MAINLINE. L.I.C. TO COORDINATE THESE LOCATIONS AND RECIEVE APPROVAL FROM TOWN OF ADDISON AND LANDSCAPE ARCHITECT PRIOR TO DIGGING. FOR BIDDING PURPOSES, ALLOW FOR FOUR (4) DRAIN VALVES.
34. LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO INSTALL RED UF-14GA. WIRE FOR STATION WIRES, WHITE UF-14GA. WIRE FOR COMMON WIRE, AND BLUE UF-14GA. WIRE FOR MASTER VALVE WIRE PER TOWN OF ADDISON. REFER TO SPECIFICATIONS FOR INSTALLATION.
35. LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO INSTALL ALL VALX BOX WIRE SPLICES IN 12"x17" PENTEK VALVE BOX WITH GREEN LID. L.I.C. TO INSTALL ALL FIELD SPLICES IN 10" ROUND PENTEK VALVE BOX WITH GREEN LID.
36. LANDSCAPE IRRIGATION CONTRACTOR (L.I.C.) TO PROVIDE A 36"x36"x6" CONCRETE PAD FOR ALL PEDESTAL MOUNT CONTROLLERS. PAD TO BE SET 3" ABOVE FINAL GRADE PER TOWN OF ADDISON. L.I.C. TO TO COORDINATE THESE LOCATIONS AND RECIEVE APPROVAL FROM TOWN OF ADDISON PRIOR TO INSTALLING.
37. THE IRRIGATION SYSTEM IS DESIGNED TO OPERATE 200 GALLONS PER MINUTE. L.I.C. TO COORDINATE THE ZONING OF THE PARK SYSTEM AND RECIEVE APPROVAL FROM TOWN OF ADDISON PRIOR TO SECTIONING.
38. FOR ANY QUESTIONS REGARDING THE SPECIFICATIONS OR RAINMASTER CONTROLLER, CONTACT RON LEE WITH THE TOWN OF ADDISON AT 972-672-1811.

IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
●	LAWN SPRAY HEAD	RAINBIRD (30 PSI)	1804 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊘	HIGH-POP SPRAY HEAD	RAINBIRD (30 PSI)	1812 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	#1804 W/ HUNTER PCN-10 NOZZLE UNLESS OTHERWISE NOTED
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	#1804 W/ HUNTER PCN-10 NOZZLE UNLESS OTHERWISE NOTED
■	LAWN CENTER STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ #5515TT NOZZLE
□	LAWN END STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ #5RCS OR #5LCS NOZZLE
◥	HIGH-POP CENTER STRIP HEAD	RAINBIRD (30 PSI)	1812 W/ #5515TT NOZZLE
◹	HIGH-POP END STRIP HEAD	RAINBIRD (30 PSI)	1812 W/ #5RCS OR #5LCS NOZZLE
⊛	SMALL ROTARY	HUNTER (40 PSI)	PGJ-4 W/ #2.5 NOZZLE
◑	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #2.0 NOZZLE
⊕	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ #2.0 NOZZLE
◐	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #4.0 NOZZLE
⊙	ROTARY FULL-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ #8.0 NOZZLE
⊘	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ #4.0 NOZZLE
◭	ROTARY FULL-CIRCLE	HUNTER (40PSI)	I-20-12 W/ #8.0 NOZZLE
▲	QUICK COUPLING VALVE	BUCKNER	#V075-DNP WITH SPEARS BALL VALVE, PURPLE LID READS "NON-POTABLE, NOT SAFE FOR DRINKING" IN ENGLISH AND SPANISH.
|O|	REMOTE CONTROL VALVE	IRRITROL	200B OMNI-REG SEIRES WITH SPEARS BALL VALVE. REFER TO PLANS FOR SIZE
⊘	BALL VALVE	SPEARS	COMPACT "T-HANDLE"- LINE SIZE
●	GATE VALVE	MATCO	#10RT SERIES - LINE SIZE
▬	CONTROLLER	RAINMASTER	EVOLUTION DX-2 SERIES WITH MINICLIK RAIN/FREEZE SENSOR
— —	MAINLINE PIPING	REFER TO SPEC.	4" AND LARGER - CLASS 200 PVC-GASKET JOINTS 3" AND 2-1/2" - CLASS 200 PVC-SOLVENT WELD JOINTS 2" AND SMALLER - SCHEDULE 40 PVC-SOLVENT WELD JOINTS
———	LATERAL PIPING	REFER TO SPEC.	3/4" & LARGER - CLASS 200 PVC 1/2" - CLASS 315 PVC
|◍|	REMOTE CONTROL DRIP VALVE	NETAFIM	#LVCZ100T5-HF LOW VOLUME CONTROL ZONE KIT W/ BALL VALVE. REFER TO PLAN FOR LOCATION
———	DISTRIBUTION TUBING	NETAFIM	POLYETHYLENE TUBING W/ TLS6 SOIL STAPLES
⋿⋿⋿⋿⋿	PLANTING BED TECHLINE TUBING	NETAFIM	TLCV9-12 WITH TECHLINE BARBED FITTINGS, TLS6 SOIL STAPLES, AND 10-F-01 TECHLINE FLAGS
NN	BACKFLOW PREVENTER	WATTS	#007M SERIES, REFER TO PLANS FOR SIZE
Ⓦ	WATER METER	REFER TO SPEC.	PER LOCAL BUILDING CODE
Ⓘ	ISOLATION VALVE	NIBCO	#T-113 SERIES, REFER TO PLANS FOR SIZE
Ⓨ	WYE STRAINER	FEBCO	#650 SERIES, REFER TO PLANS FOR SIZE
Ⓕ	FLOW METER	DATA INDUSTRIAL	#FS-P SERIES, REFER TO PLANS FOR SIZE
Ⓜ	MASTER VALVE	IRRITROL	200B SERIES, REFER TO PLAN FOR SIZE
▭	STATION NUMBER VALVE SIZE GPM (APPROX.)		

Independence Texas is regulated by the Texas Commission of Environmental Quality (TCEQ), MC-176, P.O. Box 13087, Austin, Texas, 78711-3087. TCEQ website is www.tceq.state.tx.us

STATE OF TEXAS · SETHA HEIDMAN · 5881 · LICENSED IRRIGATOR · 11-3-09

ISSUE FOR BID

IRRI-TECH LLC

Irrigation Consultant SETH HEIDMAN

Lic. No. 5881 Date 11/03/09

BID

NO.	REVISION	BY	DATE

Addison *TOWN OF ADDISON*
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

PARKWAY & PARK IRRIGATION DETAIL PLAN

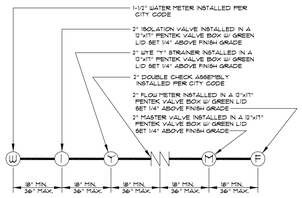
IRRI*TECH LLC.
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12650 Schroeder Rd.
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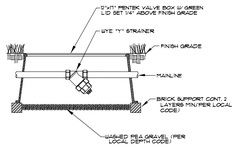
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	SAH	KEL	NOV 03 2009	PW # 2009-04	IR-24

PARK IMPROVEMENTS



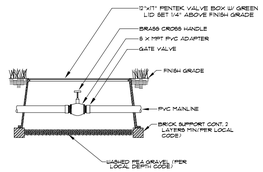
WATER SOURCE LAYOUT

NOT TO SCALE



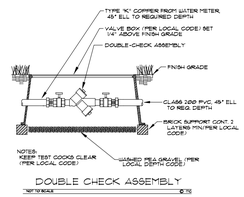
WYE "Y" STRAINER

NOT TO SCALE



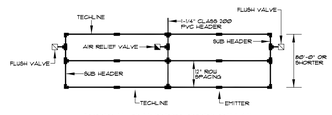
ISOLATION VALVE

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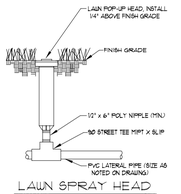
DOUBLE CHECK ASSEMBLY

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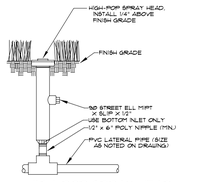
TYPICAL RAINBIRD DRIP DETAIL
(ABOVE GRADE FOR PLANT BEDS)

NOT TO SCALE



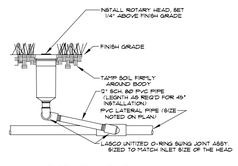
LAWN SPRAY HEAD

NOT TO SCALE



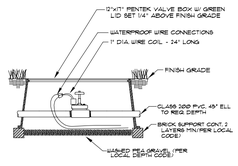
HIGH-POP SPRAY HEAD

NOT TO SCALE



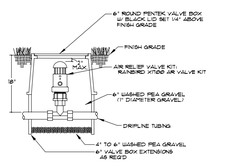
ROTARY HEAD

NOT TO SCALE



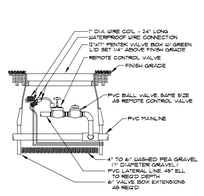
MASTER VALVE

NOT TO SCALE



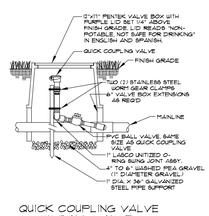
AIR RELIEF VALVE

NOT TO SCALE



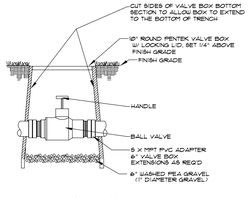
REMOTE CONTROL VALVE W/ BALL VALVE

NOT TO SCALE



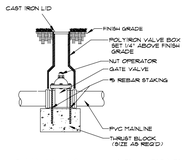
QUICK COUPLING VALVE
W/ BALL VALVE

NOT TO SCALE



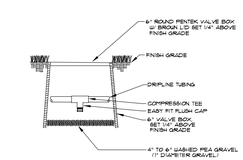
BALL VALVE

NOT TO SCALE



GATE VALVE - 4" AND LARGER

NOT TO SCALE

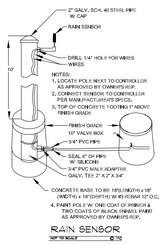


FLUSH VALVE

NOT TO SCALE

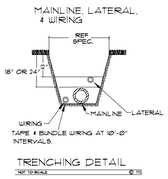
PIPE SIZE CHART

FLOW/GPM:	PIPE SIZE:
0 - 4.0	1/2"
4.1 - 9.5	3/4"
9.6 - 14.5	1"
14.6 - 27.0	1-1/4"
27.1 - 35.0	1-1/2"
35.1 - 55.0	2"
55.1 - 70.0	2-1/2"
70.1 - 110.0	3"
110.1 - 190.0	4"



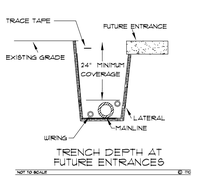
RAIN SENSOR

NOT TO SCALE



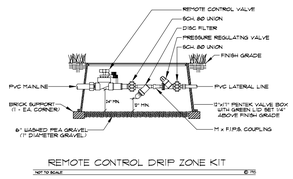
TRENCHING DETAIL

NOT TO SCALE



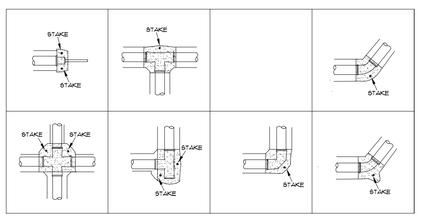
TRENCH DEPTH AT
FUTURE ENTRANCES

NOT TO SCALE



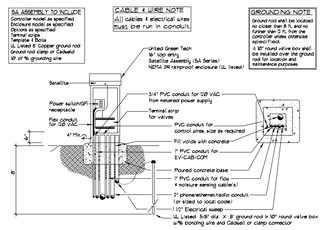
REMOTE CONTROL DRIP ZONE KIT

NOT TO SCALE



4" AND LARGER MAINLINE
CONCRETE THRUST BLOCK DETAIL

NOT TO SCALE

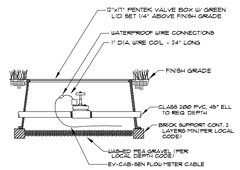


PEDESTAL MOUNT CONTROLLER

NOT TO SCALE

RADIUS LEGEND

F = 360°
E = 270°
D = 240°
C = 225°
H = 180°
B = 135°
A = 120°
Q = 90°
V = VARIABLE / ADJUSTABLE



NOTE:
THE IRRIGATION CONTRACTOR MUST PURCHASE FROM RAIN MASTER AND INSTALL SHIELDED RAIN MASTER EV-CAB-5EN FLOW METER CABLE AND INSTALL WITH CONTINUOUS 3/4" SCH. 40 PVC CONDUIT WITH LONG SWEEP 90° ELBOWS FROM THE CONTROLLER TO THE METER IF THE CABLE RUN EXCEEDS 1000 FEET OR WHERE 360 DEGREES OF FITTINGS ARE INSTALLED. ONLY SWEEP FITTINGS ARE PERMITTED.

FLOW METER

NOT TO SCALE

IRRIGATION LEGEND:

SYMBOL:	DESCRIPTION	MANUFACTURER	MODEL NO.
●	LAWN SPRAY HEAD	RAINBIRD (30 PSI)	1804 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊘	HIGH-POP SPRAY HEAD	RAINBIRD (30 PSI)	1812 WITH U-SERIES PLASTIC NOZZLES UNLESS NOTED OTHERWISE
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	*BDA W/ HUNTER PCN-10 NOZZLE UNLESS OTHERWISE NOTED
⊕	TREE BUBBLER HEAD	HUNTER (30 PSI)	*BDA W/ HUNTER PCN-10 NOZZLE UNLESS OTHERWISE NOTED
■	LAWN CENTER STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ *5556TT NOZZLE
□	LAWN END STRIP HEAD	RAINBIRD (30 PSI)	1804 W/ *5RCS OR *5LCS NOZZLE
◥	HIGH-POP CENTER STRIP HEAD	RAINBIRD (30 PSI)	1812 W/ *5556TT NOZZLE
◹	HIGH-POP END STRIP HEAD	RAINBIRD (30 PSI)	1812 W/ *5RCS OR *5LCS NOZZLE
◉	SMALL ROTARY	HUNTER (40 PSI)	PSU-4 W/ *23 NOZZLE
◑	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ *5.0 NOZZLE
◉	SMALL ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ *5.0 NOZZLE
◉	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ *4.0 NOZZLE
◉	ROTARY FULL-CIRCLE	HUNTER (40 PSI)	I-20-4 W/ *8.0 NOZZLE
◉	ROTARY PART-CIRCLE	HUNTER (40 PSI)	I-20-12 W/ *4.0 NOZZLE
◉	ROTARY FULL-CIRCLE	HUNTER (40PSI)	I-20-12 W/ *8.0 NOZZLE
▲	QUICK COUPLING VALVE	BUCKNER	*VGTB-DNP WITH SPEARS BALL VALVE, PURPLE LID READS "NON-POTABLE, NOT SAFE FOR DRINKING" IN ENGLISH AND SPANISH
⊠	REMOTE CONTROL VALVE	IRRITROL	200BS OMNI-REG SERIES WITH SPEARS BALL VALVE, REFER TO PLANS FOR SIZE
⊘	BALL VALVE	SPEARS	COMPACT "T"-HANDLE*- LINE SIZE
●	GATE VALVE	MATCO	*ORIT SERIES - LINE SIZE
▬	CONTROLLER	RAINMASTER	EVOLUTION EX-2 SERIES WITH MINICLIK RAIN/FREEZE SENSOR
— —	MAINLINE PIPING	REFER TO SPEC.	4" AND LARGER - CLASS 200 PVC-GASKET JOINTS 3" AND 2-1/2" - CLASS 200 PVC-SOLVENT WELD JOINTS 2" AND SMALLER - SCHEDULE 40 PVC-SOLVENT WELD JOINTS
———	LATERAL PIPING	REFER TO SPEC.	3/4" + LARGER - CLASS 200 PVC 1" - CLASS 315 PVC
⊠	REMOTE CONTROL DRIP VALVE	NETAFIM	*LVC200TB-HF LOW VOLUME CONTROL ZONE KIT W/ BALL VALVE, REFER TO PLAN FOR LOCATION
———	DISTRIBUTION TUBING	NETAFIM	POLYETHYLENE TUBING W/ TLD66 SOIL STAPLES
⋮⋮⋮	PLANTING BED TECH-LINE TUBING	NETAFIM	TLCVR-12 WITH TECH-LINE BARBED FITTINGS, TLD66 SOIL STAPLES, AND 10-P-01 TECH-LINE FLAGS
NN	BACKFLOW PREVENTER	WATTS	909TH SERIES, REFER TO PLANS FOR SIZE
Ⓦ	WATER METER	REFER TO SPEC.	PER LOCAL BUILDING CODE
Ⓘ	ISOLATION VALVE	NIBCO	*T-113 SERIES, REFER TO PLANS FOR SIZE
Ⓨ	WYE STRAINER	FEBCO	*350 SERIES, REFER TO PLANS FOR SIZE
Ⓕ	FLOW METER	DATA INDUSTRIAL	*FS-P SERIES, REFER TO PLANS FOR SIZE
Ⓜ	MASTER VALVE	IRRITROL	200BS SERIES, REFER TO PLAN FOR SIZE
▤	STATION NUMBER VALVE SIZE GPM (APPROX.)		

STATE OF TEXAS
SETHA HEIDMAN
5881
LICENSED IRRIGATOR
11-3-09

ISSUE FOR BID

IRRI-TECH LLC

Irrigation Consultant SETH HEIDMAN

Lic. No. 5881 Date 11/03/09

BID

NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

PARKWAY & PARK IRRIGATION DETAIL PLAN

IRRI*TECH LLC.
Irrigation Technology

12650 Schroeder Rd.
Dallas, Texas 75243

IT Job No. 08352
(972) 231-5151

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	SAH	KEL	NOV 03 2009	PW # 2009-04	IR-24

PARK IMPROVEMENTS

Irrigation & Texas is regulated by the Texas Commission of Environmental Quality (TCEQ), MC-178, P.O. Box 13087, Austin, Texas 78711-3087. TCEQ website is www.tceq.state.tx.us

CODES AND DESIGN SPECIFICATIONS:

1. BUILDING CODE: 2006 EDITION OF THE INTERNATIONAL BUILDING CODE.
2. SUPPLEMENTAL CODES AND REFERENCES TO BE USED FOR DESIGN, DETAILING AND CONSTRUCTION ARE:
   A. "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318–05).
   B. "SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301–05).
   C. "STEEL CONSTRUCTION MANUAL" (AISC, THIRTEENTH EDITION).
   D. "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" (2005).
3. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS LRFD BRIDGE DESIGN SPECIFICATIONS 2007 4TH EDITION.

DESIGN LIVE LOADING:

1. ALL PUBLIC ACCESS & GATHERING AREAS ..... 100 PSF
2. WIND 3 SEC. GUST EXPOSURE B ..... 90 MPH
3. SEISMIC SITE CLASSIFICATION C
4. SPECTRAL RESPONSE ACCELERATION (Ss, S1) 0.125, 0.052

CONCRETE MIX DESIGNS:

1. PROVIDE NORMAL WEIGHT CONCRETE HAVING THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS AND GENERAL CHARACTERISTICS:

USAGE	MIN. 28 DAY COMPRESSIVE STRENGTH
ALL	4,000 PSI

2. MINIMUM CONCRETE 28 DAY COMPRESSIVE STRENGTH SHALL BE BASED ON HISTORICAL PERFORMANCE DATA FROM THE SELECTED TRANSIT MIX CONCRETE SUPPLIER AND APPROVED BY THE ENGINEER.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONCRETE SUPPLIER TO SELECT THE PROPER TYPE OF PORTLAND CEMENT (INCLUDING QUANTITIES), AGGREGATES (INCLUDING QUANTITIES) AND WATER CEMENT RATIO TO PRODUCE THE REQUIRED MINIMUM 28 DAY COMPRESSIVE STRENGTHS.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONCRETE SUPPLIER TO RECOMMEND ANY ENHANCING AGENTS OR ADMIXTURES TO PROVIDE A WORKABLE AND DURABLE PRODUCT.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONCRETE SUPPLIER TO COORDINATE WITH THE GENERAL CONTRACTOR FOR ANY ADJUSTMENTS WHICH MAY BE NECESSARY TO PROVIDE FOR HIGH EARLY STRENGTHS TO FACILITATE AND ELIMINATE DELAYS IN CONSTRUCTION.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONCRETE SUPPLIER TO COORDINATE WITH THE GENERAL CONTRACTOR FOR ANY ADJUSTMENTS WHICH MAY BE NECESSARY TO PROVIDE FOR HOT WEATHER OR COLD WEATHER CONCRETING PRECAUTIONS.

CONCRETE REINFORCEMENT:

1. REINFORCING STEEL SHALL BE NEW DEFORMED BILLET STEEL CONFORMING TO A.S.T.M. A–615, GRADE 60.
2. ALL REINFORCING STEEL IN THE LAKE EDGE WALL, WIERS, PEDESTRIAN BRIDGES, & GROTTO SHALL BE EPOXY COATED.
3. REINFORCING BARS SHALL BE DETAILED IN ACCORDANCE WITH THE A.C.I. DETAILING MANUAL. PROVIDE BAR SUPPORTS AND SPACERS AS REQUIRED.
4. PROVIDE CORNER BARS AT ALL INTERSECTING REINFORCING MEMBERS IN WALLS AND BEAMS. CORNER BARS SHALL BE THE SAME SIZE AS THE LARGER INTERSECTING BAR AND SHALL PROVIDE A MINIMUM LAP OF 30 BAR DIAMETERS.
5. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:
   A. CONCRETE SLABS–ON–GRADE ..... 1½" CLEAR
   B. STRUCTURAL SLABS ..... 2" CLEAR
   C. PIERS ..... 3" CLEAR
   D. PILASTERS ..... 1½" CLEAR
5. DETAILING OF REINFORCING BARS IN BEAMS SHALL BE AS FOLLOWS:
   A. TOP AND BOTTOM BARS TO BE CONTINUOUS BETWEEN SUPPORTS.
   B. TOP BARS AT THE ENDS OF BEAMS TO HAVE STANDARD 90 DEGREE HOOKS.
   C. SPLICE TOP BARS AT THE MIDSPAN BETWEEN SUPPORTS. (U.N.O.)
   D. SPLICE BOTTOM BARS DIRECTLY OVER SUPPORTS. (U.N.O.)
   E. ALTERNATE SPLICES IN MIDDLE BARS BETWEEN SUPPORTS AND MIDSPANS WITH NO MORE THAN 1/2 OF THE BARS SPLICED AT ANY ONE LOCATION.
   F. ALL BAR SPLICES SHALL BE 30 BAR DIAMETERS MINIMUM.

STRAIGHT SHAFT PIER NOTES:

1. STRAIGHT SHAFT PIER DESIGN IS BASED ON AN ALLOWABLE VALUE OF 18,000 PSF END BEARING AND 2,000 PSF SIDE FRICTION AS RECOMMENDED IN THE SUBSURFACE REPORT PREPARED BY GEOTEL ENGINEERING, INC. THEIR REPORT NO. E07–312, DATED DECEMBER 3, 2007.
2. DRILLED PIERS SHALL BE FOUNDED A MINIMUM OF 2' INTO THE GRAY UNWEATHERED SHALE BEARING STRATA AS IDENTIFIED BY THE GEOTECH ENGINEER.
3. BOTTOM OF ALL PIER HOLES SHALL BE SMOOTH, DRY AND FREE OF ALL LOOSE MATERIAL BEFORE PLACING CONCRETE.
4. THE CONTRACTOR SHALL VERIFY THE DEPTH OF THE PIER PRIOR TO CUTTING PIER REINFORCING CAGES. PIER STEEL SHALL BE DELIVERED TO THE JOBSITE IN STANDARD LENGTHS AND CUT AS REQUIRED. 30 BAR DIAMETER LAPS WILL BE ALLOWED IN THE PIER STEEL IF NO MORE THAN 50 PERCENT OF THE BARS ARE LAPPED IN ANY 8 FOOT LENGTH OF THE PIER.
5. REINFORCING STEEL SHOP DRAWINGS SHALL INDICATE PLACING DRAWINGS FOR TEMPLATES TO SET DOWELS AND ANCHOR BOLTS. REINFORCING CAGES SHALL BE ADEQUATELY SUPPORTED TO PROVIDED CLEARANCES INDICATED ON THE DRAWINGS.
6. PIER HOLES SHALL BE CONCRETED WITHIN 8 HOURS OF DRILLING.
7. IF SUBSURFACE WATER CONDITIONS ARE SUCH THAT THE PIER HOLES CANNOT BE INSTALLED IN THE DRY CONDITION, THE CONTRACTOR SHALL INSTALL TEMPORARY CASING TO CONTROL WATER INTRUSION.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL SHALL CONFORM TO THE A.I.S.C. "STEEL CONSTRUCTION MANUAL", THIRTEENTH EDITION.
2. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISED CODE OF THE AMERICAN WELDING SOCIETY. WELDING ELECTRODES SHALL CONFORM TO AWS A5.1 OR A5.5 FOR SERIES #E70 ELECTRODES.
3. BOLTS AND BOLTED CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS" FOR STRUCTURAL JOINTS USING A.S.T.M. A–325 BOLTS OR A490 BOLTS, AS APPROVED BY THE RESEARCH COUNCIL ON RIVETED AND BOLTED JOINTS USING ASTM A–325 BOLTS. USE BEARING TYPE BOLTS WITH THREADS EXCLUDED FROM THE SHEAR PLANE.
4. IN GENERAL, IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT ALL SHOP CONNECTIONS ARE TO BE WELDED OR BOLTED AND ALL FIELD CONNECTIONS ARE TO BE BOLTED EXCEPT WHERE NOTED ON THE DRAWINGS OTHERWISE.
5. STRUCTURAL STEEL SHAPES, PLATES, ETC., SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS:
   A. W SHAPE ..... ASTM A992, Fy = 50ksi
   B. RECTANGULAR HSS ..... ASTM A500 Gr.B, Fy = 46ksi
   C. ROUND HSS ..... ASTM A500 Gr.B, Fy = 42ksi
   D. PIPE ..... ASTM A53 Gr.B, Fy = 35ksi
   E. M,S,C,MC,L ..... ASTM A36, Fy = 36ksi
   F. HP ..... ASTM A572 Gr. 50, Fy = 50ksi
   G. PLATES & BARS..... ASTM A572 Gr. 50, Fy = 50ksi
6. ALL BEAM CONNECTIONS SHALL BE STANDARD DOUBLE ANGLE TYPE UNLESS DETAILED OTHERWISE. PLATE SIZES, NUMBER AND SIZE OF BOLTS FOR FIELD CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR. DESIGN STANDARD CONNECTIONS USING 55% OF THE TOTAL LOAD CAPACITY SHOWN IN THE BEAM TABLES, PART 3, THIRTEENTH EDITION OF THE A.I.S.C. CODE FOR GIVEN BEAM SPAN IF THE SHEAR IS NOT GIVEN. IN NO CASE SHALL THE MINIMUM NUMBER OF BOLTS BE LESS THAN 2 ROWS FOR W12 & SMALLER, 3 ROWS FOR W14, W16, & W18, 4 ROWS FOR W21 AND W24, 5 ROWS FOR W27 & W30 AND 6 ROWS FOR W33 AND W36.
7. PROVIDE A PRIME COAT OF RED OXIDE PAINT TO ALL STRUCTURAL STEEL PRIOR TO SHIPMENT.
8. ALL SCARRED, MARRED, OR OTHERWISE DAMAGED PAINT SHALL BE TOUCHED UP AFTER COMPLETION OF CONSTRUCTION.
9. PROVIDE WEB STIFFENERS TO ALL BEAMS AT SUPPORT LOCATIONS. WELD STIFFENERS TO EACH SIDE OF BEAM CENTERED DIRECTLY ABOVE SUPPORT. MIN. PLATE THICKNESS IS ¼".

FINISHES:

1. LAKE EDGE WALL OUTSIDE FORM FOR UPPER 4'–0" SHALL BE FORMED WITH MEDIUM DENSITY OVERLAY PLYWOOD.
2. UPPER 2'–0" & CAP OF LAKE EDGE WALL SHALL BE SAND BLASTED IN THE SAME MANNER AS THE APPROVED MOCK–UP AVAILABLE AT THE SITE.
3. ALL SITE WALLS THAT ARE EXPOSED CONCRETE SHALL BE FORMED AND FINISHED IN THE SAME MANNER AS THE LAKE EDGE WALL.
4. ALL SITE EXPOSED CONCRETE WALKS SHALL HAVE A ROCK SALT FINISH TO MATCH THE APPROVED MOCK–UP AVAILABLE AT THE SITE.

STONE VENEER:

1. ALL STONE VENEER SHALL BE IMPORTED BLUE/GREEN (COLOR) CHINESE STONE.
2. THE MINIMUM THICKNESS OF STONE VENEER SHALL BE 3 CM.
3. THE FINISH SURFACE OF THE STONE SHALL BE FLAMED (THERMAL).
4. ALL EDGES OF VENEER SHALL BE SAW CUT.
5. VENEER TO BE APPLIED TO CURVED SURFACES SHALL BE FABRICATED IN 6", 8½" AND 12" LENGTHS.
6. VENEER TO BE APPLIED TO FLAT SURFACES SHALL BE FABRICATED IN 8", 13" AND 21" LENGTHS.
7. ALL VENEER COURSES SHALL BE 4".
8. MORTAR SHALL BE ACID–R GRAY AND FROST PROOF.
9. VENEER SHALL BE APPLIED TO SURFACES W/ EPOXY BASED MASTIC SUCH AS "LATTICRETE" OR APPROVED EQUIVALENT. MASTIC SHALL BE FROST PROOF.
10. ALL SURFACES TO RECEIVE STONE VENEER SHALL BE CLEAN, DRY AND FREE OF ALL DELETERIOUS SUBSTANCES.
11. COURSING AND RANDOM LENGTH PATTERN SHALL MATCH APPROVED ON–SITE MOCK UP.
12. CONTRACTOR, AT CONTRACTOR'S EXPENSE, SHALL PREPARE A MOCK–UP TO DEMONSTRATE PROFICIENCY IN MATCHING THE APPROVED MOCK UP PRIOR TO COMMENCEMENT OF THE WORK.

STATE OF TEXAS
VICTOR LISSIAK, JR.
30535
LICENSED
PROFESSIONAL ENGINEER
11/03/09

TEXAS FIRM REG. # F-2658

ISSUED FOR BID

NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

GENERAL NOTES

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029–01	VL	NERF	NOV. 3 2009	PW#2009–04	SP100

REFERENCE BRIDGE DRAWINGS THIS WORK NOT IN PARK CONTRACT

RE: SP402 FOR FORD

T.O. PIER 540.00'

T.O. PIER VARIES 540.00' TO 541.00'

T.O. PIER VARIES 541.00' TO 540.00'

T.O. PIER 541.00'

SP301/01

SP301/05

T.O. PIER 541.00'

≈25'-0"

LIMITS OF PARK LAKE EDGEWALL CONTRACT

LIMITS OF BRIDGE LAKE EDGE WALL CONTRACT

T.O. PIER VARIES 541.00' TO 540.00'

T.O. PIER 541.00'

T.O. PIER 540.00' TYP. ISLAND 2

T.O. PIER 540.00'

T.O. PIER VARIES 540.00' TO 541.00'

EXIST. 555.00'

EXIST. 556.00'

EXIST. 557.00'

EXIST. 558.00'

01 PARTIAL PARK PLAN
1/16"=1'-0"

1/16" = 1'-0"
NORTH

ISSUED FOR BID

STATE OF TEXAS
VICTOR LISSIAK, JR.
30555
LICENSED PROFESSIONAL ENGINEER
11/03/09

TEXAS FIRM REG. # F-2658

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

PARTIAL PLAN VIEW

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP200

RE: SP318/05 & 06
TYP. STAIR SECTIONS

RE: SP321
FOR GROTTO

GROTTO

RE: SP318/05 & 06
TYP. STAIR SECTIONS

T.O. PIER
542.00

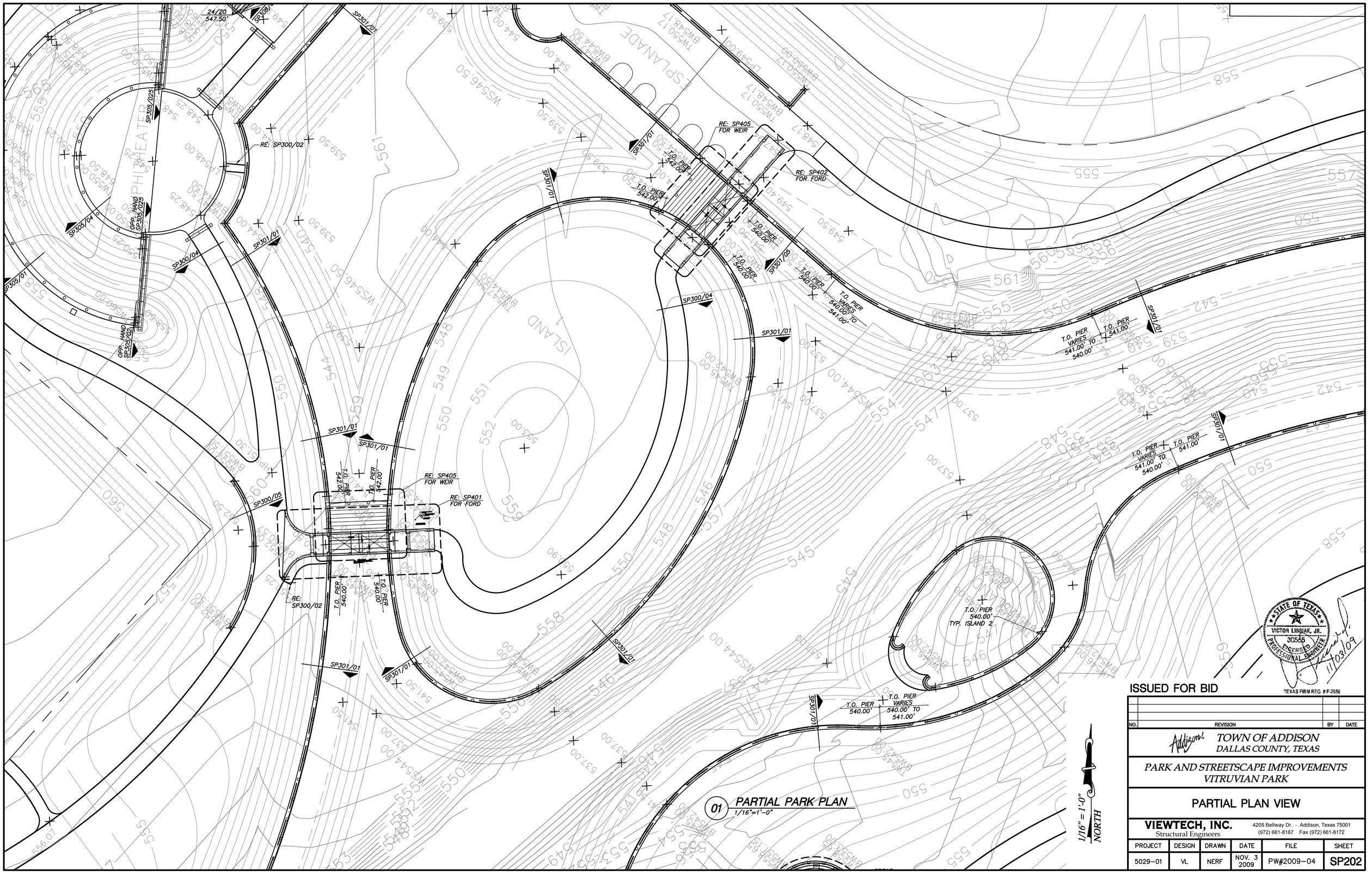
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FOR FORD

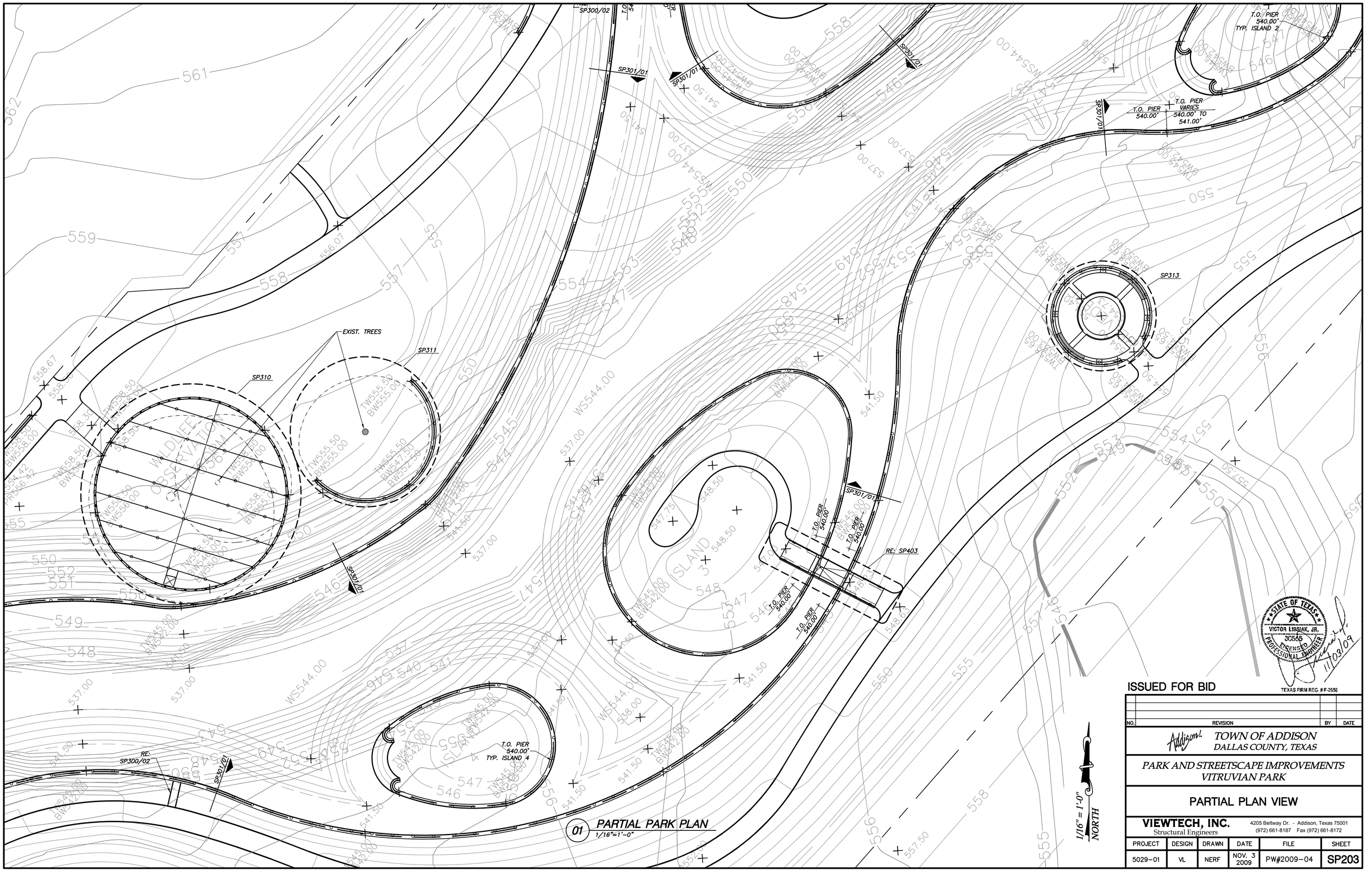
SP301/01

SP305/02

SP305/02

SP305/02


24/20
547.50'
SP305/01
SP301/01
SP305/025
RE: SP300/02
OPP. HAND
SP305/025
SP305/04
SP301/01
SP300/04
SP305/01
OPP. HAND
SP305/01
SP301/01
SP301/01
T.O. PIER
542.00'
T.O. PIER
542.00'
RE: SP405
FOR WEIR
RE: SP401
FOR FORD
SP300/05
RE:
SP300/02
T.O. PIER
540.00'
T.O. PIER
540.00'
SP301/01
SP301/01
SP301/01
RE: SP405
FOR WEIR
RE: SP402
FOR FORD
T.O. PIER
540.00'
T.O. PIER
540.00'
SP301/05
T.O. PIER
540.00'
T.O. PIER
VARIES
540.00' TO
541.00'
SP300/04
SP301/01
T.O. PIER
VARIES
541.00' TO
540.00'
T.O. PIER
541.00'
SP301/01
T.O. PIER
VARIES
541.00' TO
540.00'
T.O. PIER
541.00'
SP301/01
T.O. PIER
540.00'
TYP. ISLAND 2
T.O. PIER
540.00'
T.O. PIER
VARIES
540.00' TO
541.00'
SP301/01
SP301/01
SP301/01



01 PARTIAL PARK PLAN
1/16"=1'-0"

STATE OF TEXAS
VICTOR LISSIAK, JR.
30565
LICENSED
PROFESSIONAL ENGINEER
11/03/09

TEXAS FIRM REG. # F-2658

ISSUED FOR BID

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

PARTIAL PLAN VIEW

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP203

RE: SP315

SP300/01

SP301/01

RE: SP300/02

T.O. PIER 540.00

SP303/03

SP302/01

EXIST. 569.98'

EXIST. 569.27'

SP303/01

LOWER CIRCULATION SYSTEM PAD
RE: MECH PLANS.

RE: SP317/02

SP303/02

SP303/06

EXISTING STRUCTURE

SP303/01 O.H.

T.O. PIER 538.00

SP303/06 O.H.

20'-9 1/16" O.H.

SP303/02

SP303/05

SP302/05

SP302/01

SP301/01

RE: SP316

RE: SP317/01

01 PARTIAL PARK PLAN

1/16"=1'-0"

1/16" = 1'-0"

NORTH

STATE OF TEXAS
VICTOR LISSIAK, JR.
30555
LICENSED PROFESSIONAL ENGINEER
11/03/09

TEXAS FIRM REG. # F-2658

ISSUED FOR BID

NO.	REVISION	BY	DATE

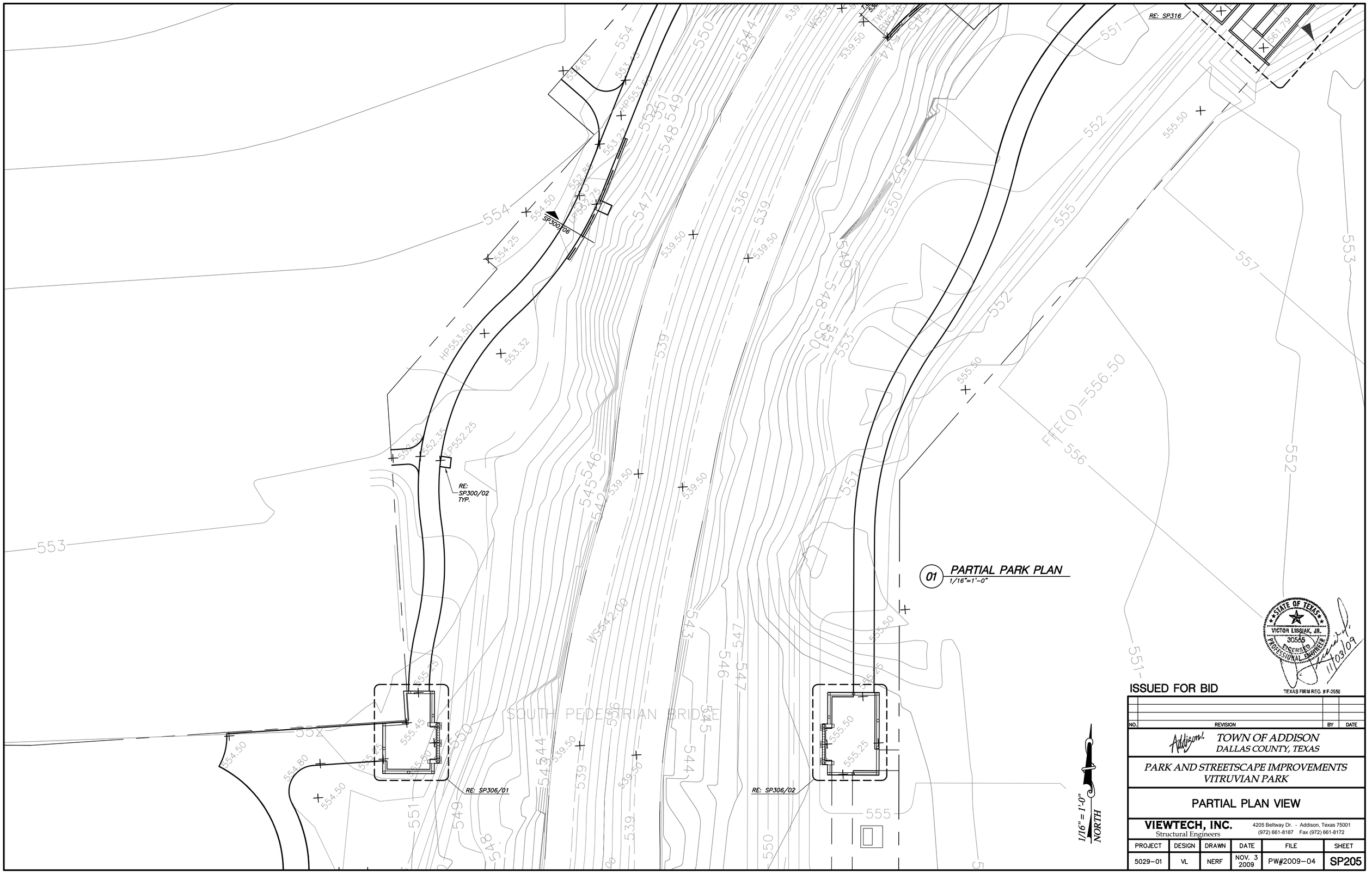
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

PARTIAL PLAN VIEW

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP204



01 PARTIAL PARK PLAN
1/16"=1'-0"

STATE OF TEXAS
VICTOR LISSIAK, JR.
90585
LICENSED
PROFESSIONAL ENGINEER
11/03/09
TEXAS FIRM REG. # F-2658

ISSUED FOR BID

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

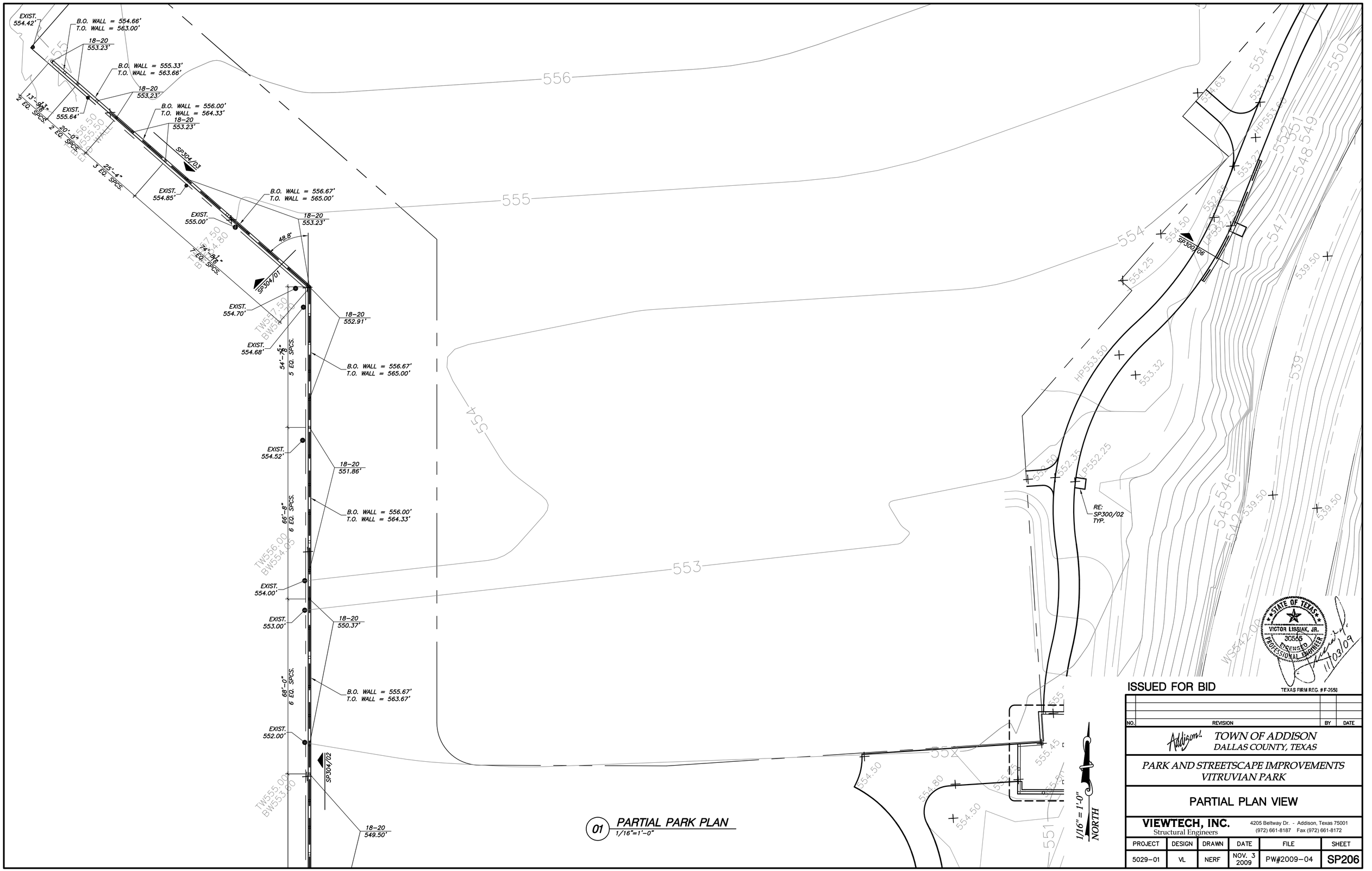
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

PARTIAL PLAN VIEW

1/16" = 1'-0"
NORTH

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP205



01 PARTIAL PARK PLAN
1/16"=1'-0"

1/16" = 1'-0"
NORTH

ISSUED FOR BID

TEXAS FIRM REG. # F-2658

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

PARTIAL PLAN VIEW

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029–01	VL	NERF	NOV. 3 2009	PW#2009–04	SP206

EXIST. 554.68'

54'-7½" 5 EQ. SPCS.

B.O. WALL = 556.67'
T.O. WALL = 565.00'

EXIST. 554.52'

18–20
551.86'

68'-8" 6 EQ. SPCS.

B.O. WALL = 556.00'
T.O. WALL = 564.33'

TW556.00
BW554.05

EXIST. 554.00'

EXIST. 553.00'

18–20
550.37'

68'-0" 6 EQ. SPCS.

B.O. WALL = 555.67'
T.O. WALL = 563.67'

EXIST. 552.00'

SP304/02

TW555.00
BW553.60

18–20
549.50'

113'-9½" 11 EQ. SPCS.

B.O. WALL = 555.00'
T.O. WALL = 563.00'

TW555.00
BW552.75

12–5
549.50'

B.O. WALL = 555.00'
T.O. WALL = 563.00'

18–20
549.50'

B.O. WALL = 554.00'
T.O. WALL = 562.34'

TW555.00
BW554.00

18–20
549.50'

B.O. WALL = 553.33'
T.O. WALL = 561.67'

SP304/02

18–20
549.50'

B.O. WALL = 553.00'
T.O. WALL = 561.00'

18–20
549.50'

B.O. WALL = 552.00'
T.O. WALL = 560.33'

18–20
549.50'

B.O. WALL = 551.33'
T.O. WALL = 559.67'

18–20
549.50'

B.O. WALL = 550.67'
T.O. WALL = 559.00'

18–20
548.12'

B.O. WALL = 550.00'
T.O. WALL = 558.33'

SP304/01

SP304/01

90.7°

23'-1⅛" 2 EQ. SPCS.

46'-8" 5 EQ. SPCS.

94'-8" 9 EQ. SPCS.

54'-8" 5 EQ. SPCS.

14'-8" 2 EQ. SPCS.

14'-8" 2 EQ. SPCS.

14'-8" 2 EQ. SPCS.

16'-2¼" 2 EQ. SPCS.

EXIST. 552.25'

EXIST. 553.00'

EXIST. 554.00'

EXIST. 553.00'

RE: SP300/02 TYP.

RE: SP306/01

RE: SP306/02

SOUTH PEDESTRIAN BRIDGE

01 PARTIAL PARK PLAN
1/16"=1'-0"

1/16" = 1'-0"
NORTH

STATE OF TEXAS
VICTOR LISSIAK, JR.
80585
LICENSED
PROFESSIONAL ENGINEER
11/03/09

TEXAS FIRM REG. # F-2658

ISSUED FOR BID

NO.	REVISION	BY	DATE

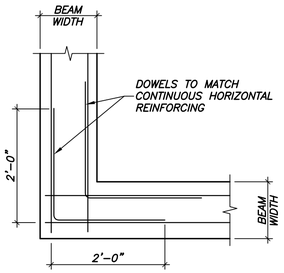
Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

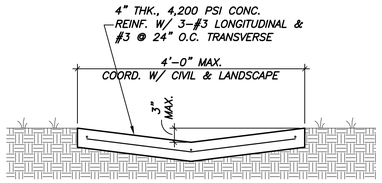
PARTIAL PLAN VIEW

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

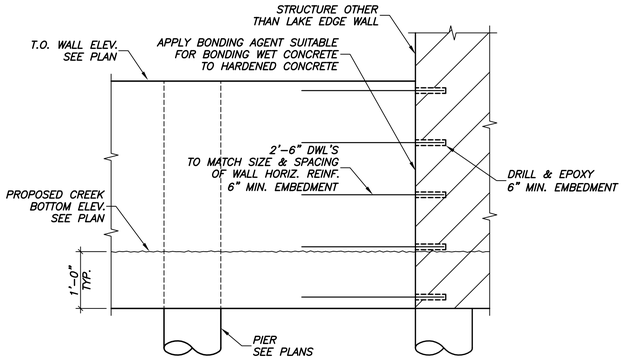
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029–01	VL	NERF	NOV. 3 2009	PW#2009–04	SP207



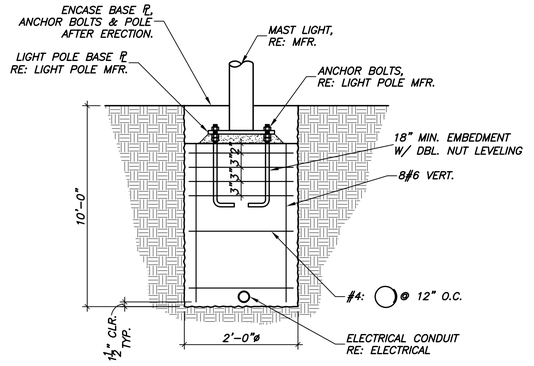
01 TYP. CORNER BAR DET.
N.T.S.



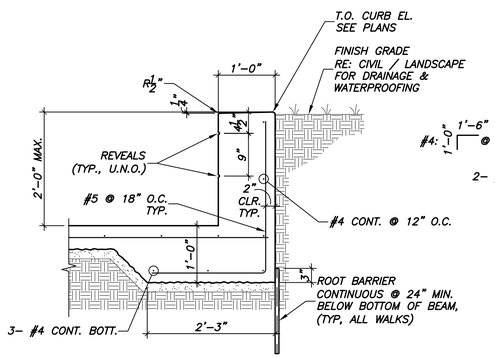
02 TYP. FLUME DETAIL
N.T.S.



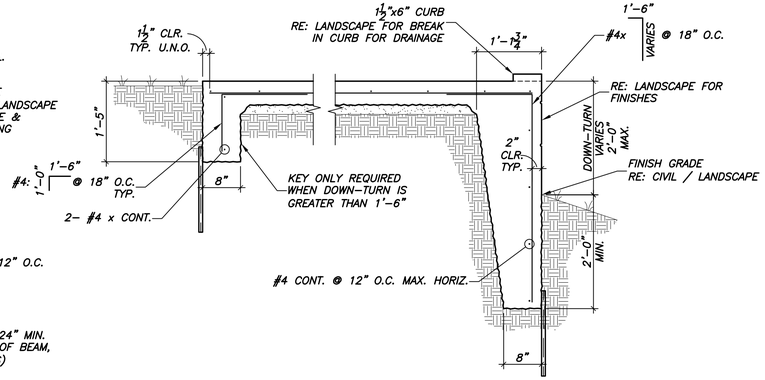
03 TYP. LAKE EDGE WALL TO OTHER STRUCTURE CONNECTION DETAIL
N.T.S.



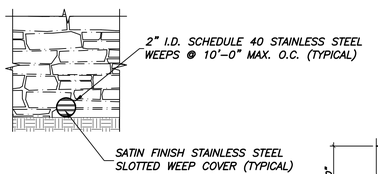
04 TYP. LIGHT POLE BASE FOR POLES 10' THRU 20'
N.T.S.



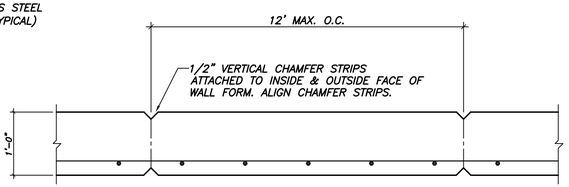
05 TYP. SIDEWALK UP-TURN CURB DETAIL
N.T.S.



06 TYP. SIDEWALK DOWN-TURN CURB DETAIL
N.T.S.

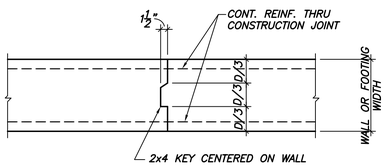


08 TYP. WEEP & WEEP COVER DETAIL
N.T.S.



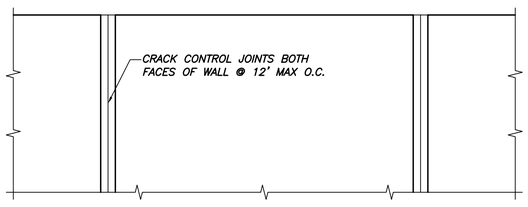
PLAN VIEW SECTION

10 TYP. RETAINING WALL CONTROL JOINT DETAIL
N.T.S.



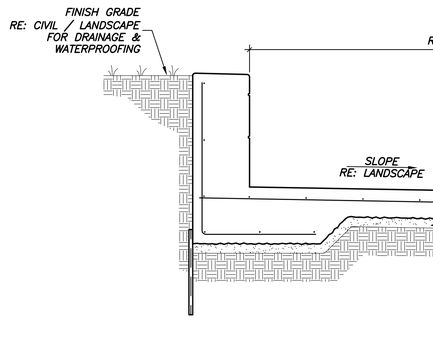
PLAN VIEW SECTION

09 TYP. WALL OR FOOTING CONSTRUCTION JOINT DETAIL
N.T.S.

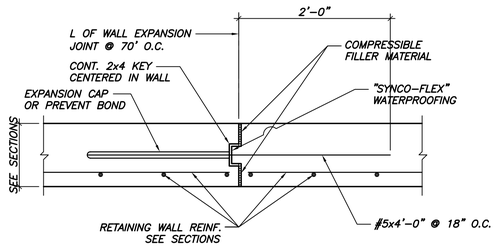


ELEVATION VIEW

11 TYP. RETAINING WALL CONTROL JOINT DETAIL
N.T.S.

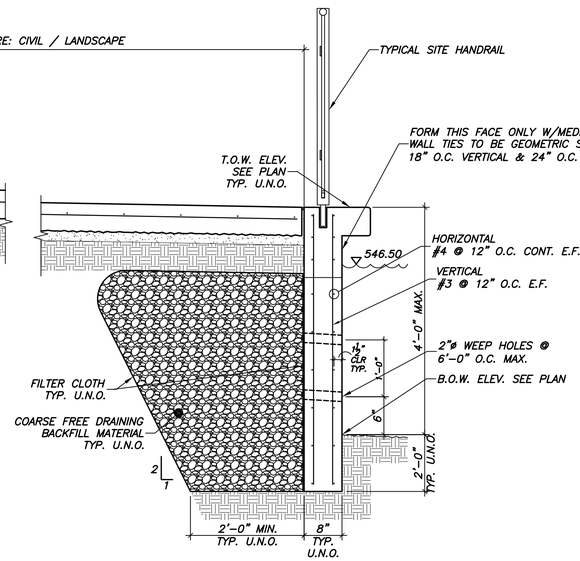


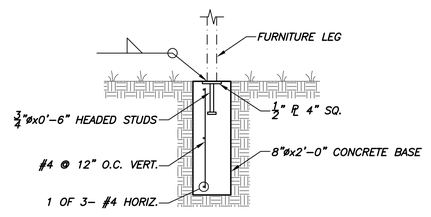
07 SECTION
N.T.S.



PLAN VIEW SECTION

12 TYP. RETAINING WALL EXPANSION JOINT DETAIL
N.T.S.





13 TYP. FURNITURE & FIXTURE BASE
N.T.S.

STATE OF TEXAS
VICTOR LISSIAK, JR.
30555
LICENSED PROFESSIONAL ENGINEER
11/03/09
TEXAS FIRM REG. # F-2658

ISSUED FOR BID

NO.	REVISION	BY	DATE

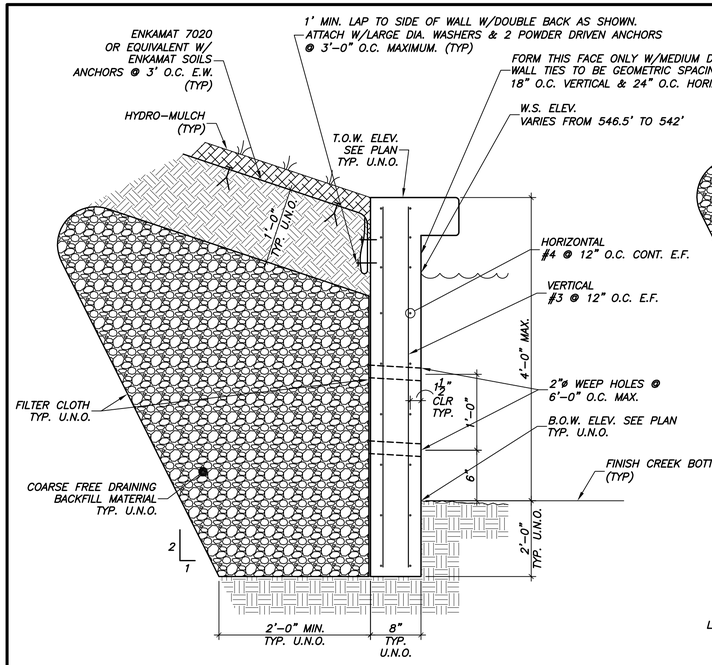
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

SECTIONS & DETAILS

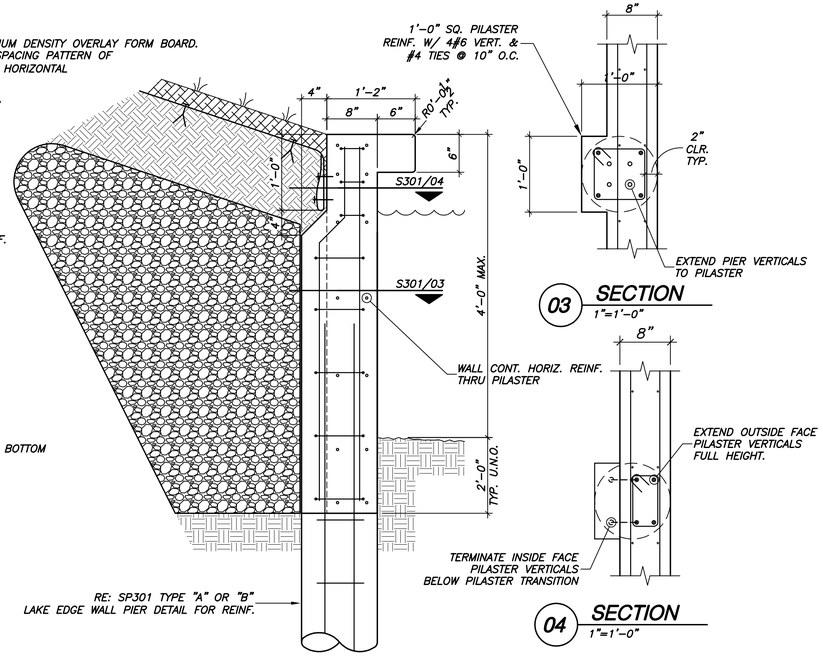
VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP300



LAKE EDGE WALL DETAIL 4' MAX ABOVE CREEK BOTTOM

01 1"=1'-0"



LAKE EDGE WALL PILASTER 4' MAX. ABOVE CREEK BOTTOM

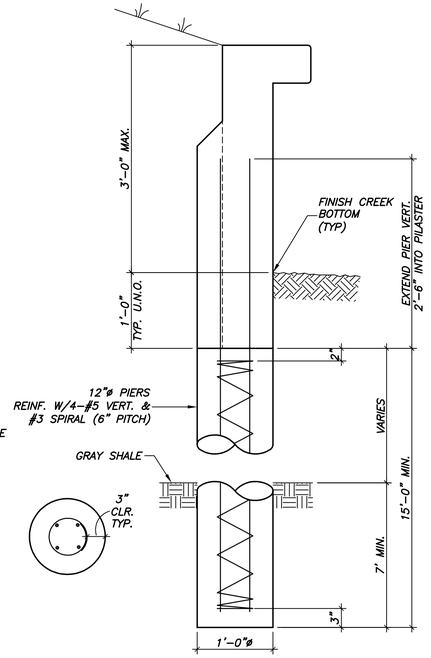
02 1"=1'-0"

SECTION

03 1"=1'-0"

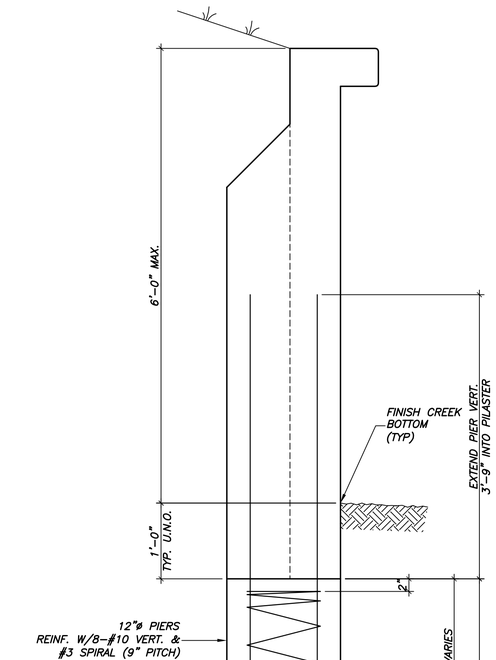
SECTION

04 1"=1'-0"



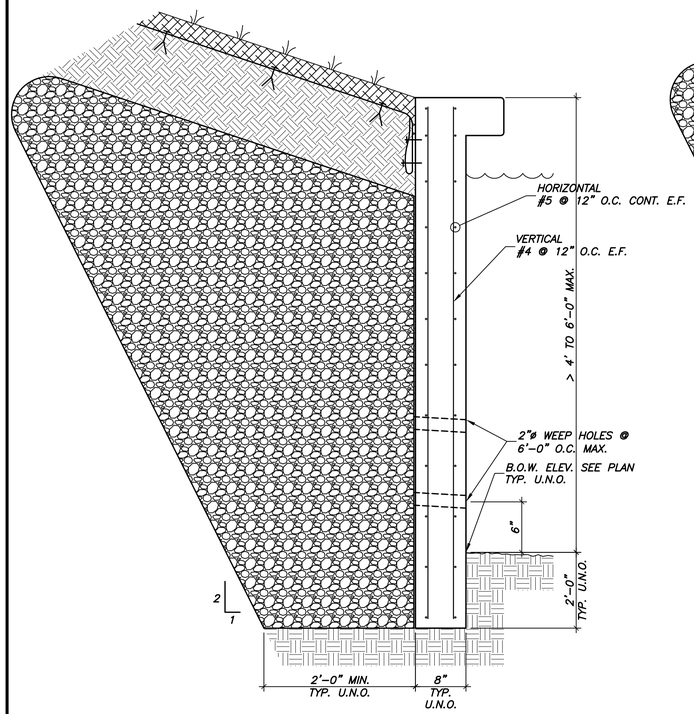
TYPE "A" PIER FOR LAKE EDGE WALL 3' AND LESS SPACED AT 8'-0" O.C. MAX

A 1"=1'-0"



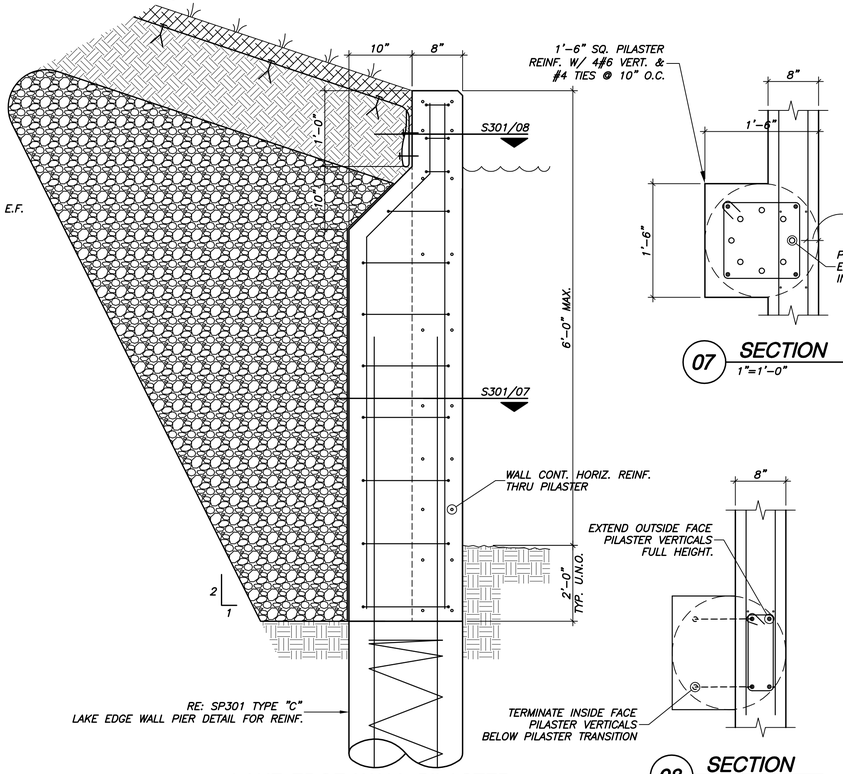
TYPE "C" PIER FOR LAKE EDGE WALL 4' TO 6'-0" MAX. SPACED AT 6'-0" O.C. MAX

C 1"=1'-0"



LAKE EDGE WALL DETAIL OVER 4' TO 6'-0" MAX. ABOVE CREEK BOTTOM

05 1"=1'-0"



LAKE EDGE WALL PILASTER OVER 4' TO 6'-0" MAX.

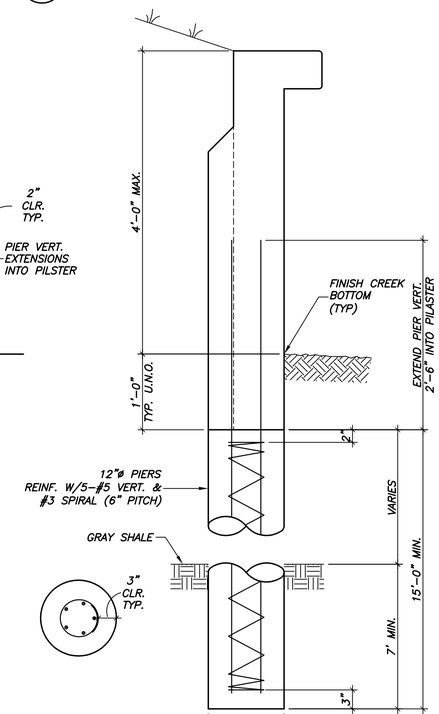
06 1"=1'-0"

SECTION

07 1"=1'-0"

SECTION

08 1"=1'-0"



TYPE "B" PIER FOR LAKE EDGE WALL 3' TO 4' MAX. SPACED AT 6'-0" O.C. MAX

B 1"=1'-0"

STATE OF TEXAS
VICTOR LISSIAK, JR.
30555
LICENSED PROFESSIONAL ENGINEER
11/03/09
TEXAS FIRM REG. # F-2658

ISSUED FOR BID

NO.	REVISION	BY	DATE

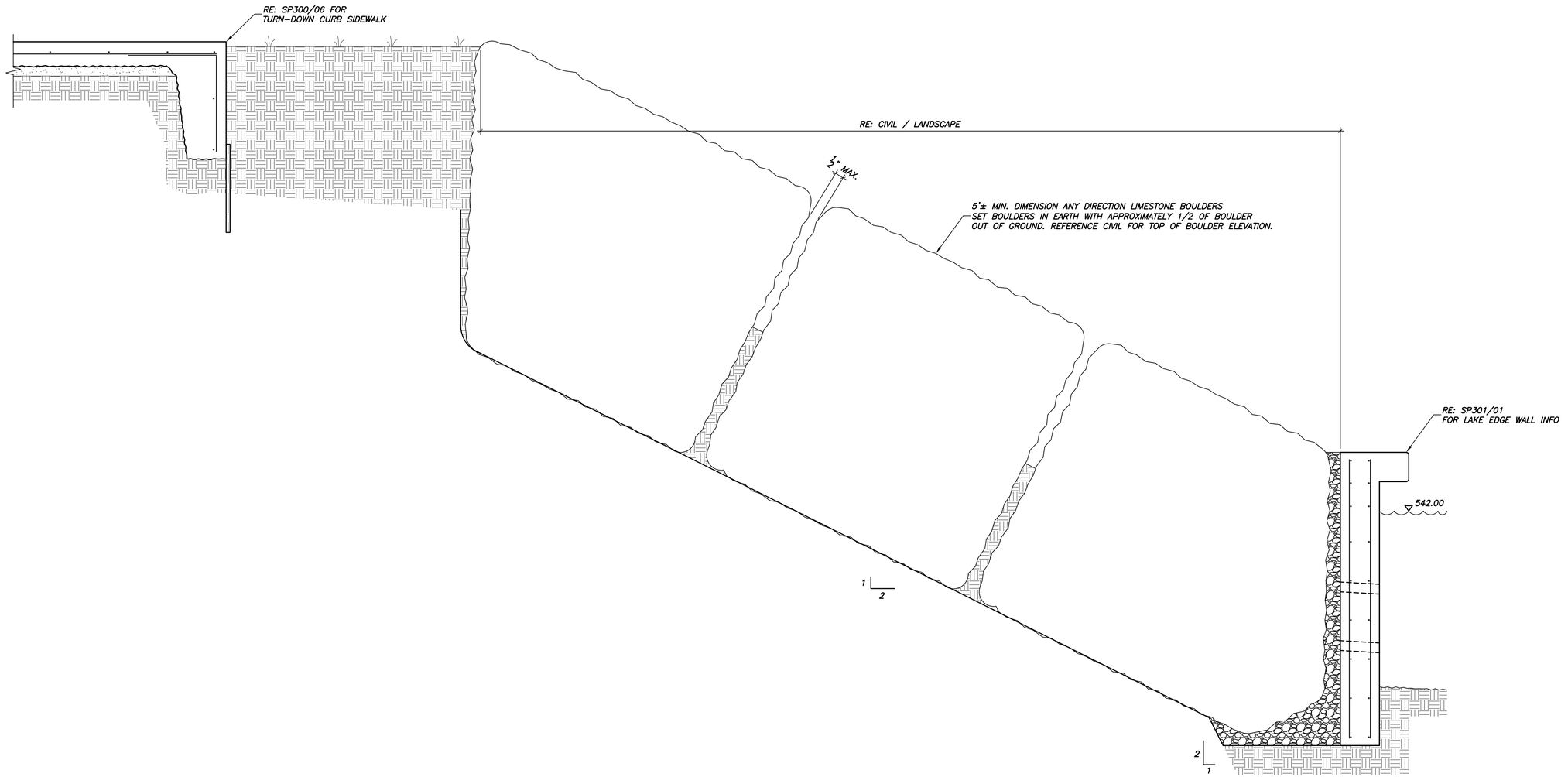
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

SECTIONS & DETAILS

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP301



01 SECTION
1"=1'–0"

ISSUED FOR BID

STATE OF TEXAS
VICTOR LISSIAK, JR.
30555
LICENSED
PROFESSIONAL ENGINEER
11/03/09

TEXAS FIRM REG. # F-2658

NO.	REVISION	BY	DATE

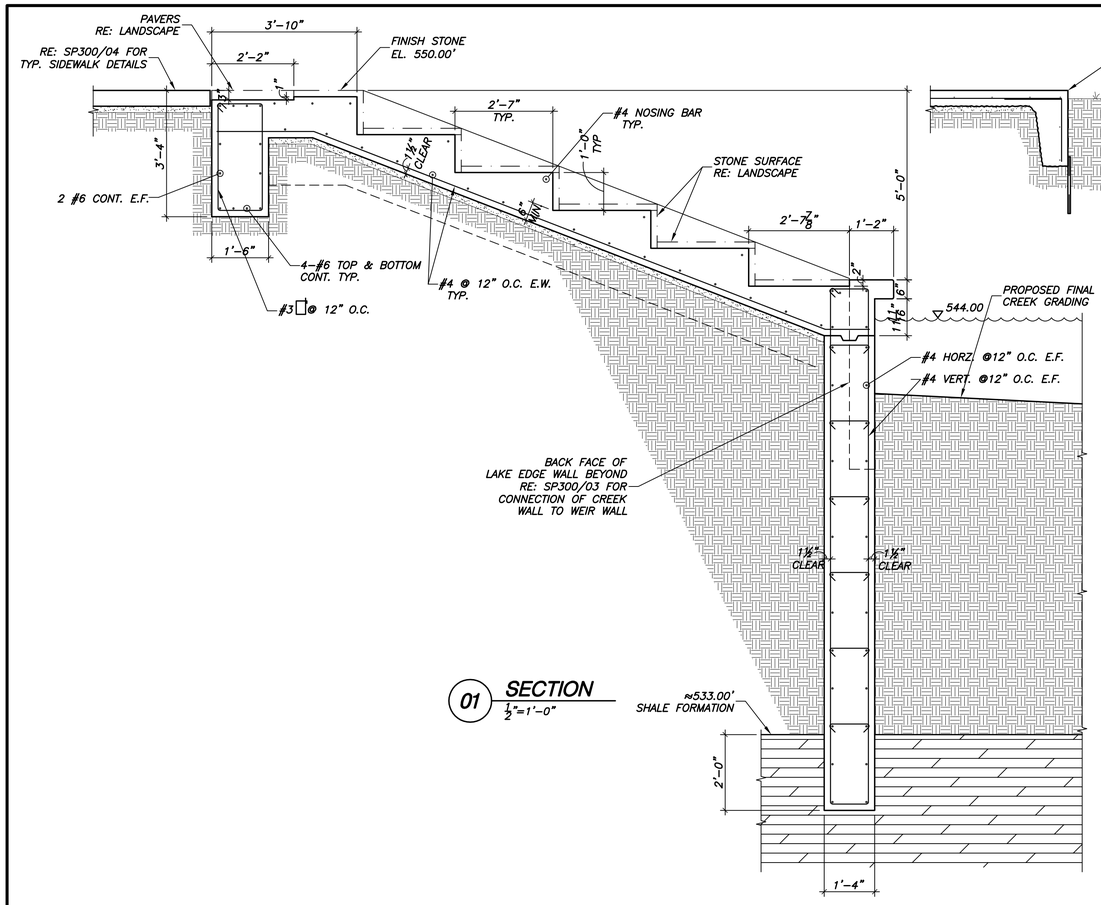
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

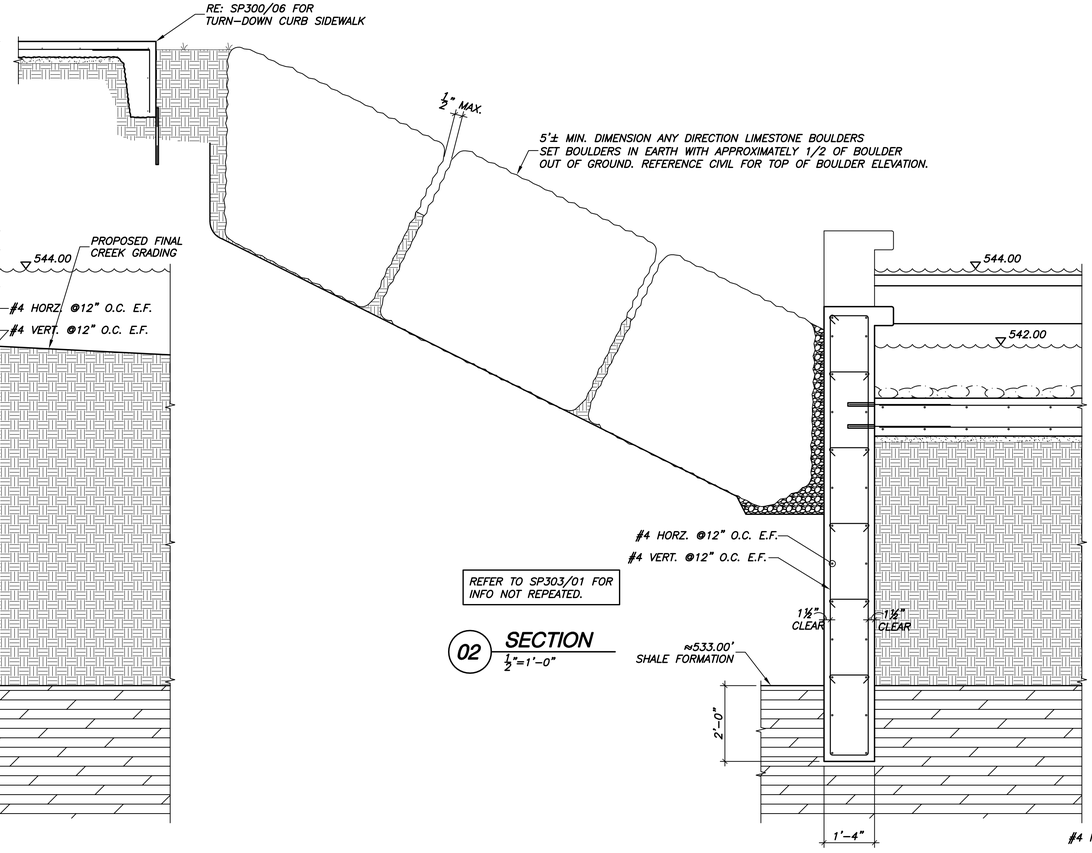
SECTIONS & DETAILS

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

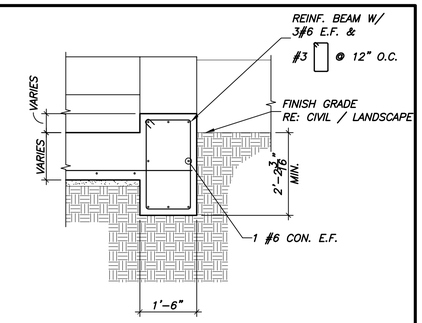
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029–01	VL	NERF	NOV. 3 2009	PW#2009–04	SP302



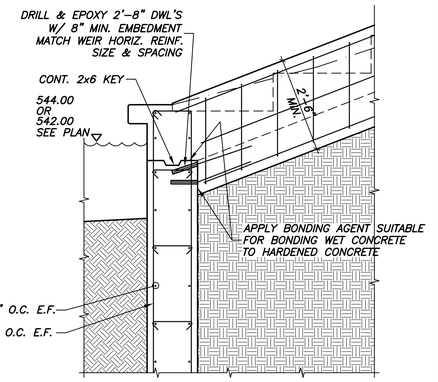
01 **SECTION**
½"=1'-0"



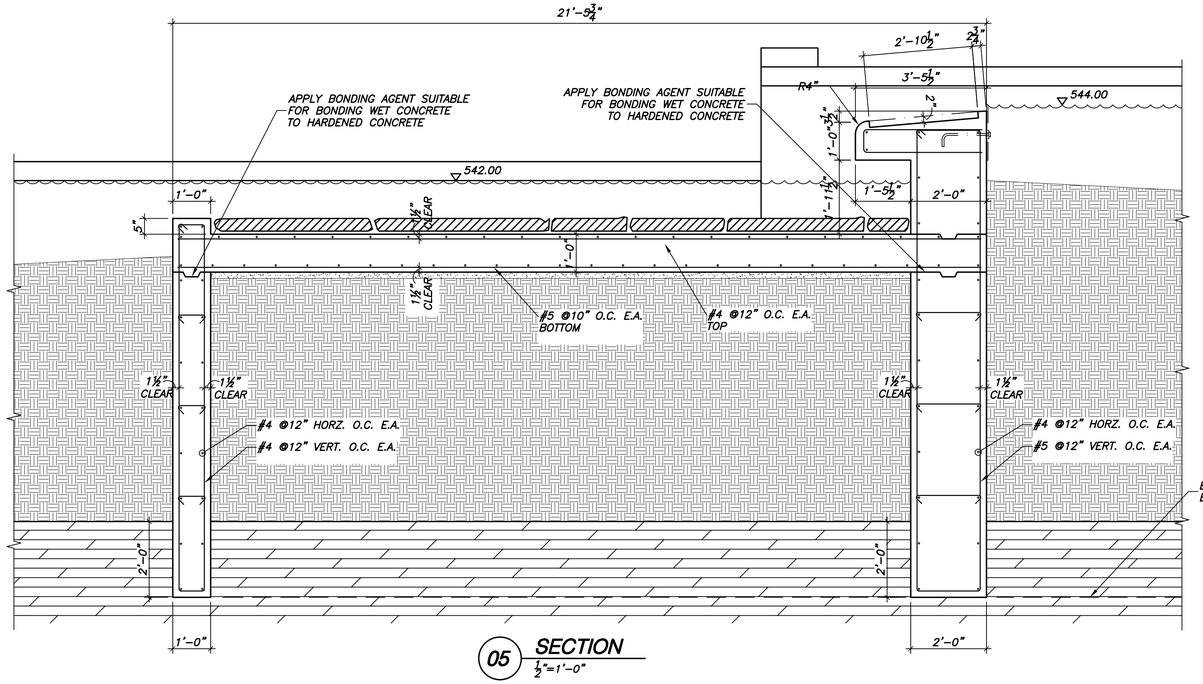
02 **SECTION**
½"=1'-0"



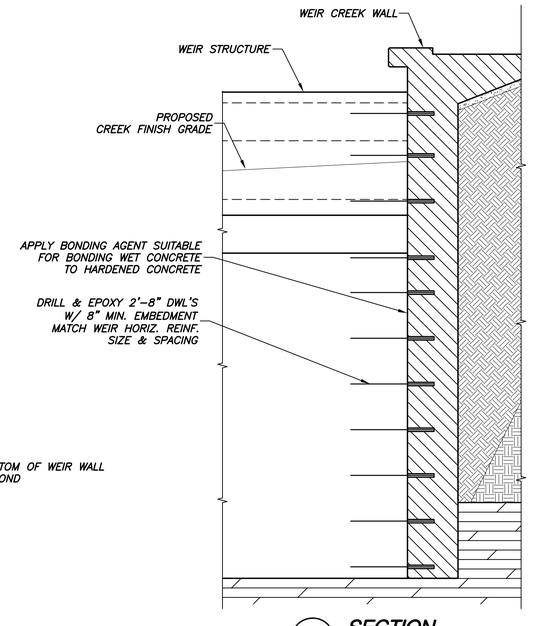
03 **SECTION**
½"=1'-0"



04 **SECTION**
½"=1'-0"



05 **SECTION**
½"=1'-0"



06 **SECTION**
½"=1'-0"

STATE OF TEXAS
VICTOR LISSIAK, JR.
30555
LICENSED
PROFESSIONAL ENGINEER
11/03/09
TEXAS FIRM REG. # F-2658

ISSUED FOR BID

NO.	REVISION	BY	DATE

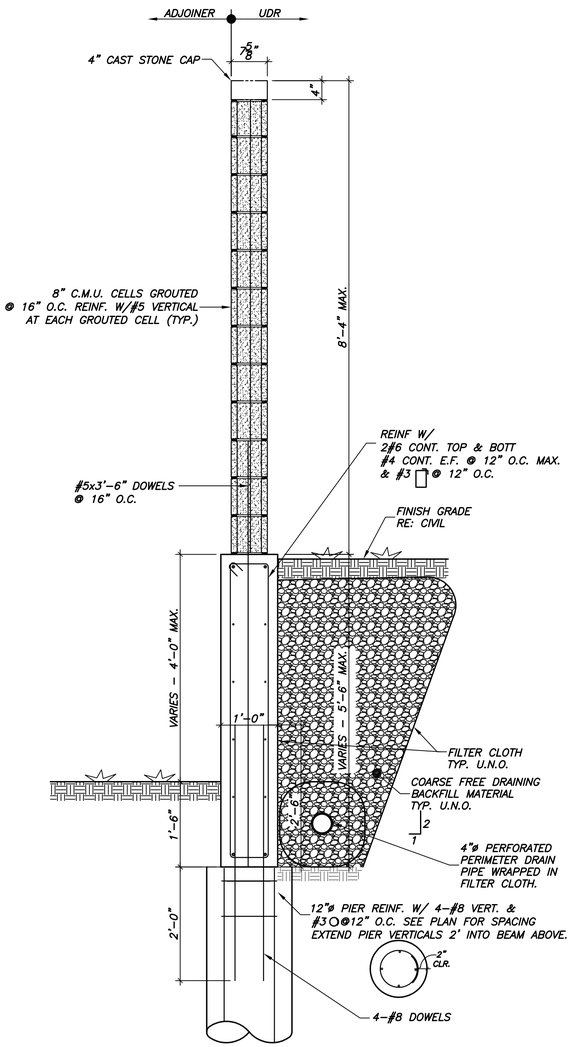
Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

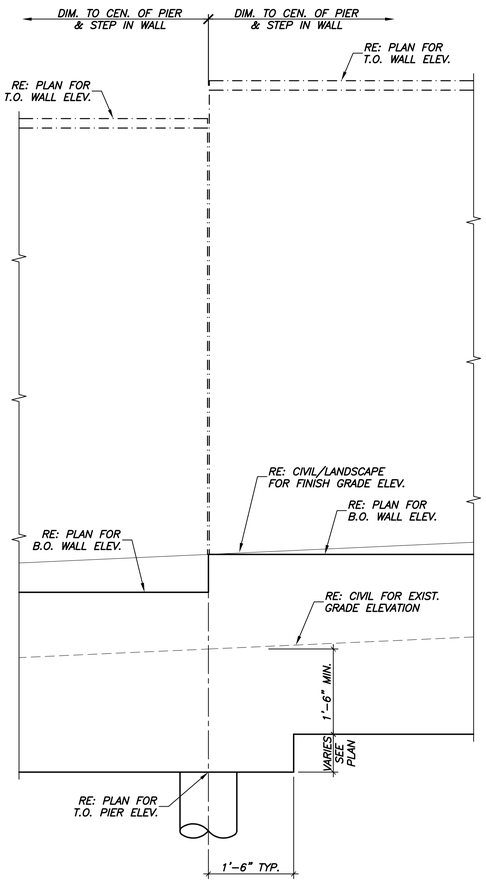
SECTIONS & DETAILS

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

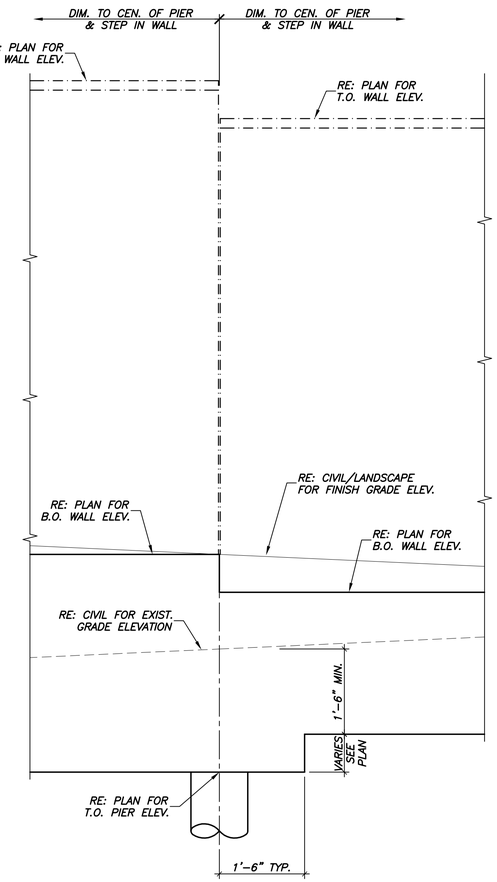
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP303



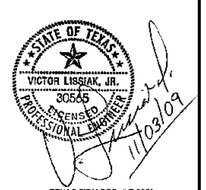
01 FENCE SECTION
3/4"=1'-0"



02 FENCE PARTIAL ELEVATION
3/4"=1'-0"



03 FENCE PARTIAL ELEVATION
3/4"=1'-0"



TEXAS FIRM REG. # F-2658

ISSUED FOR BID

NO.	REVISION	BY	DATE

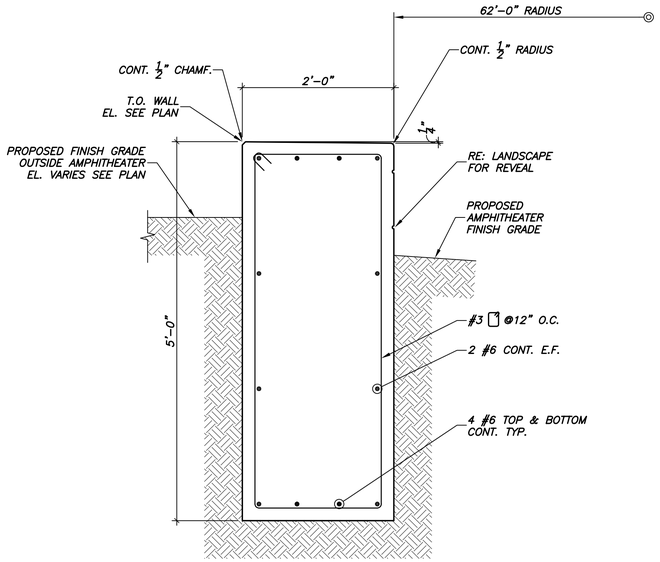
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

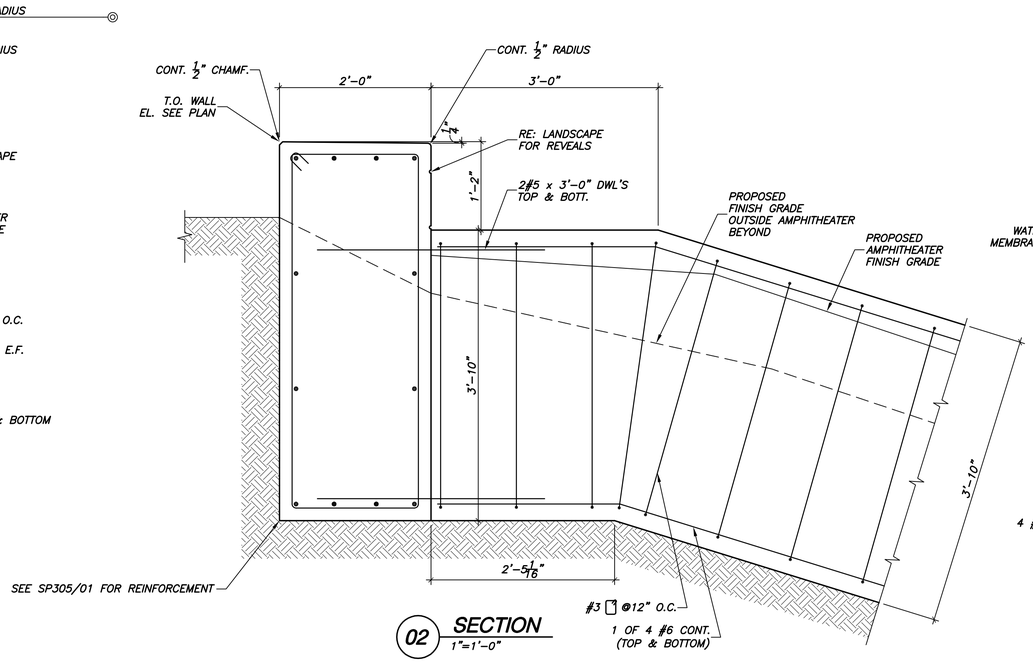
SECTIONS & DETAILS

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

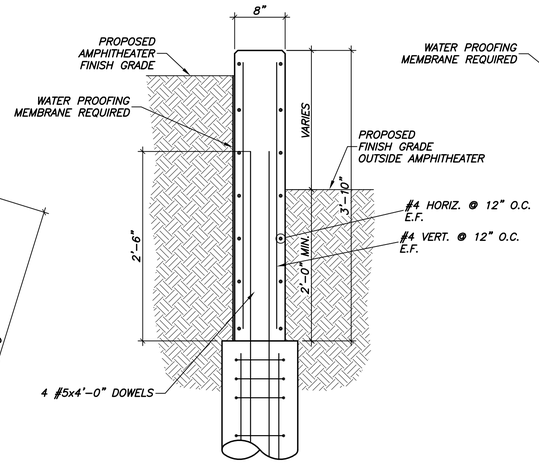
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP304



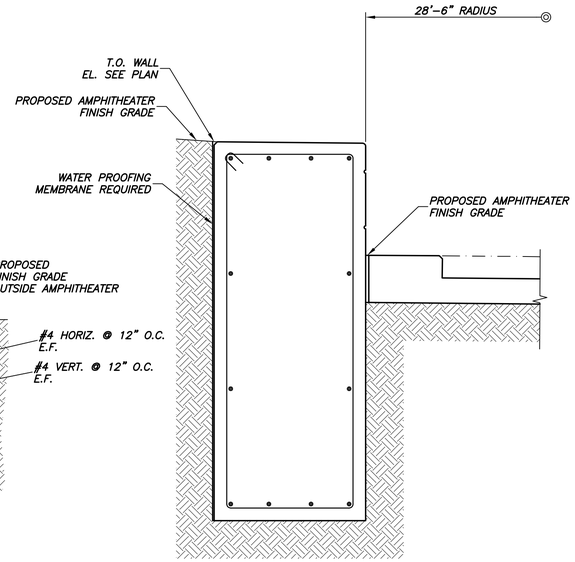
01 SECTION
1"=1'-0"



02 SECTION
1"=1'-0"

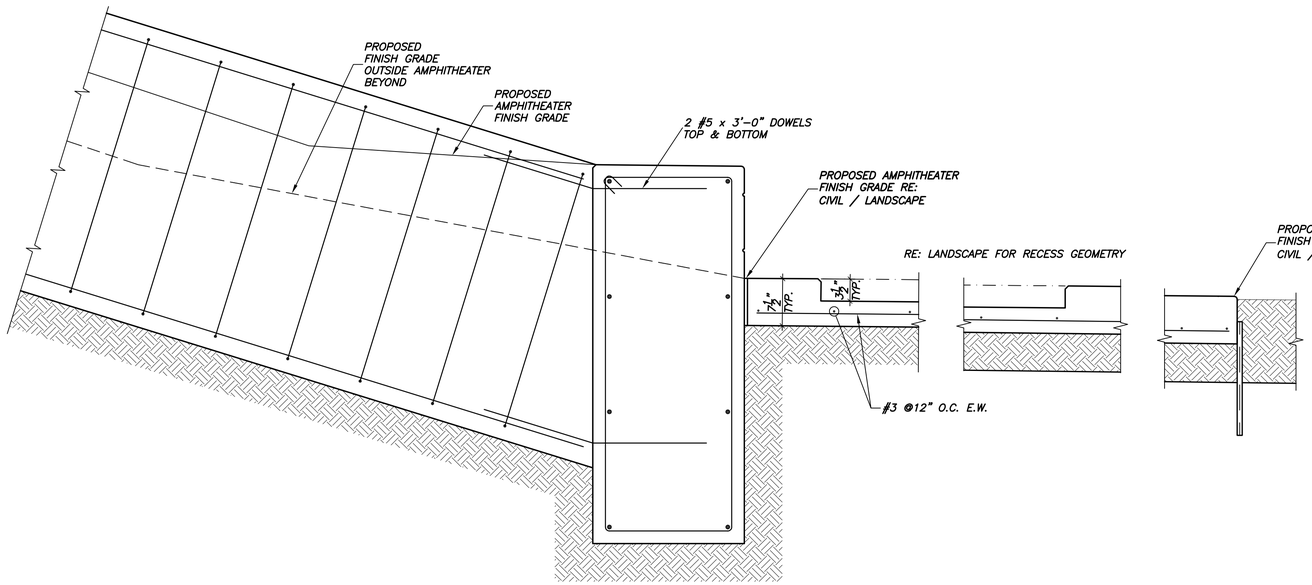


03 SECTION
1"=1'-0"



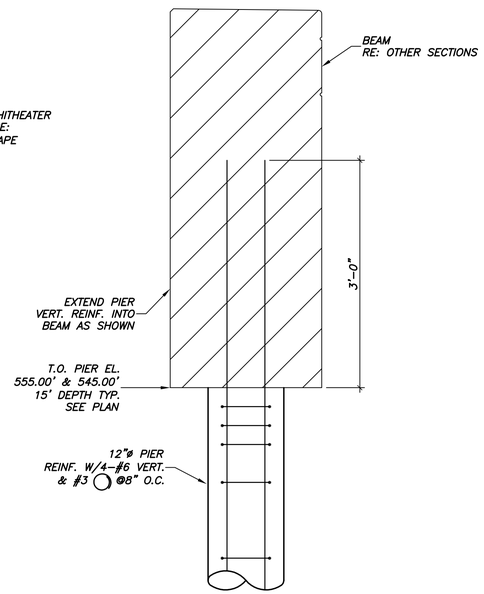
RE: SP305/01 FOR
FOR INFO NOT REPEATED

04 SECTION
1"=1'-0"

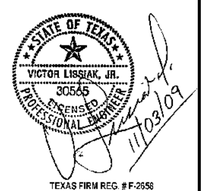


RE: SP305/01 & 02
FOR INFO NOT REPEATED

05 SECTION
1"=1'-0"



06 DETAIL
1"=1'-0"



TEXAS FIRM REG. # F-2658

ISSUED FOR BID

NO.	REVISION	BY	DATE

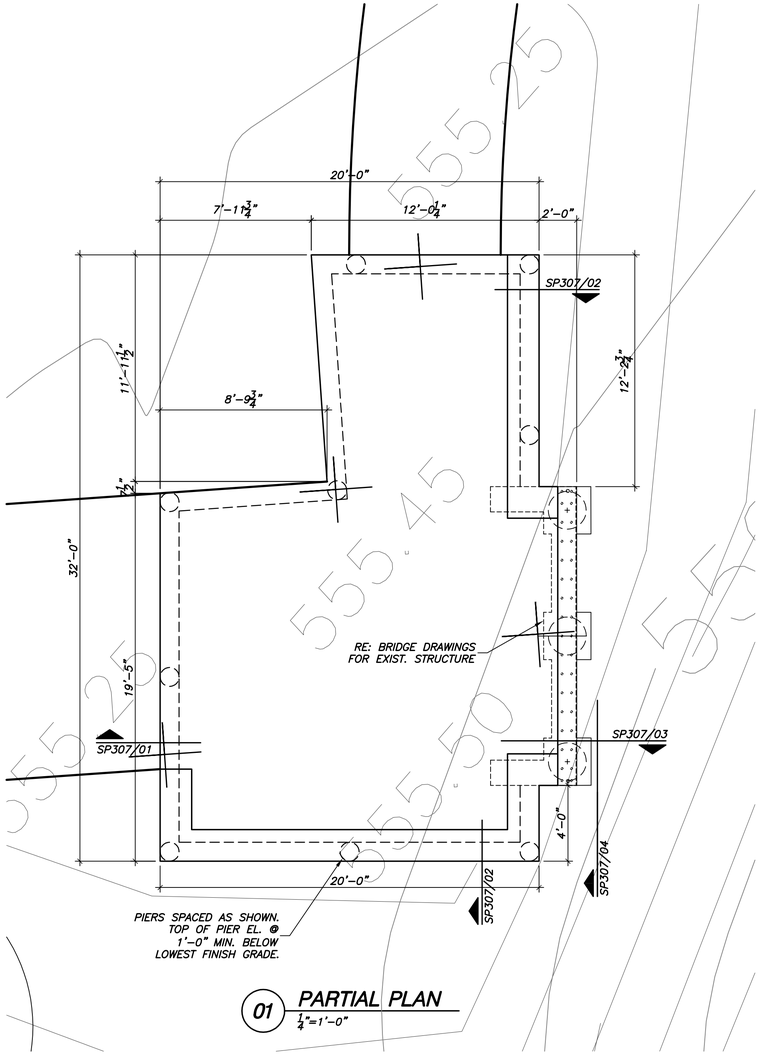
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

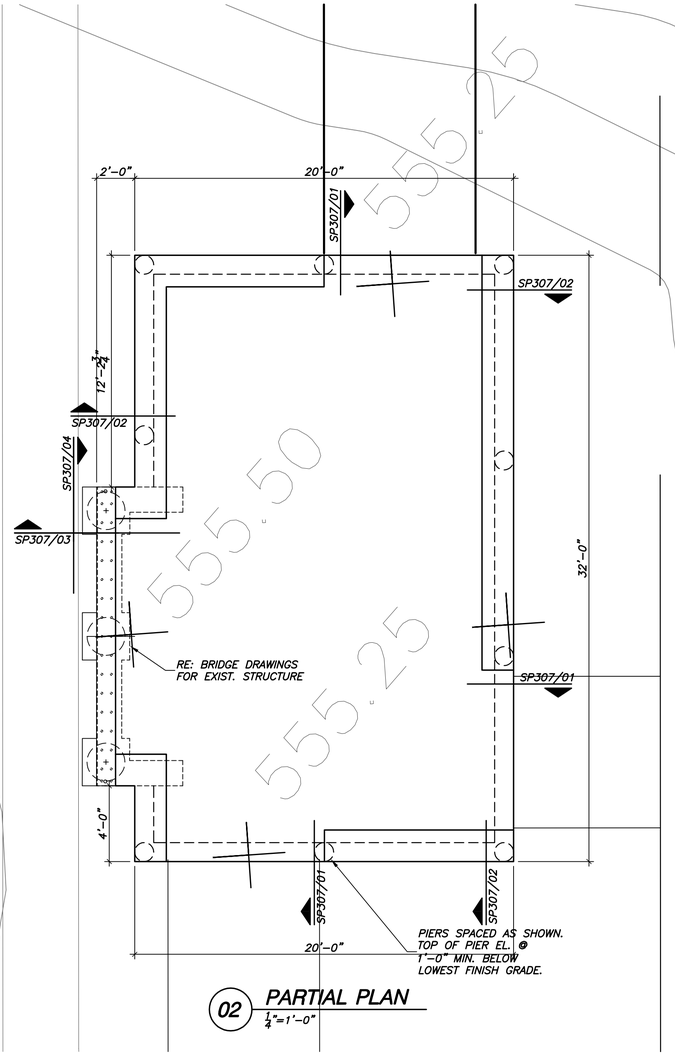
SECTIONS & DETAILS

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP305



01 PARTIAL PLAN
1/4"=1'-0"



02 PARTIAL PLAN
1/4"=1'-0"

ISSUED FOR BID

STATE OF TEXAS
VICTOR LISSIAK, JR.
30555
LICENSED
PROFESSIONAL ENGINEER
11/03/09

TEXAS FIRM REG. # F-2558

NO.	REVISION	BY	DATE

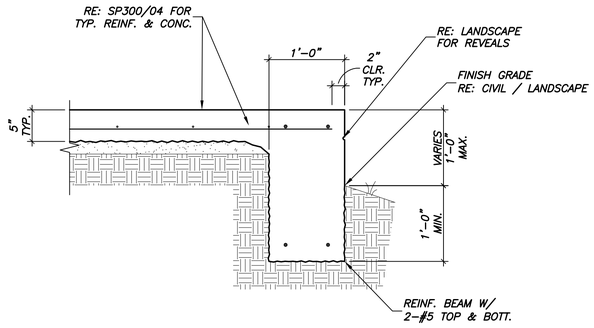
Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

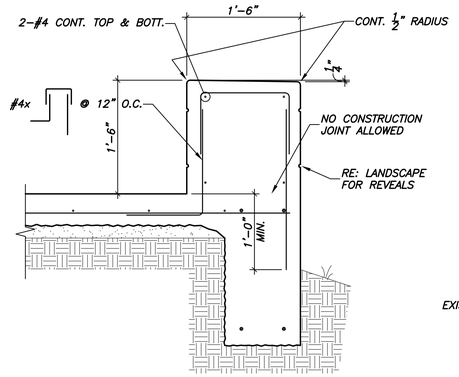
SOUTHERN PEDESTRIAN BRIDGE
EAST / WEST LANDING PLANS

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

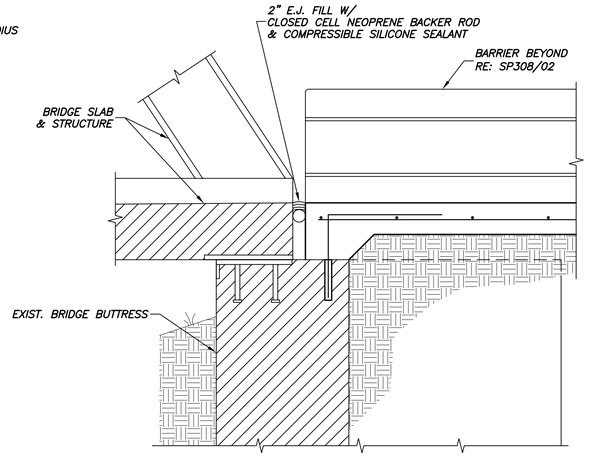
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP306



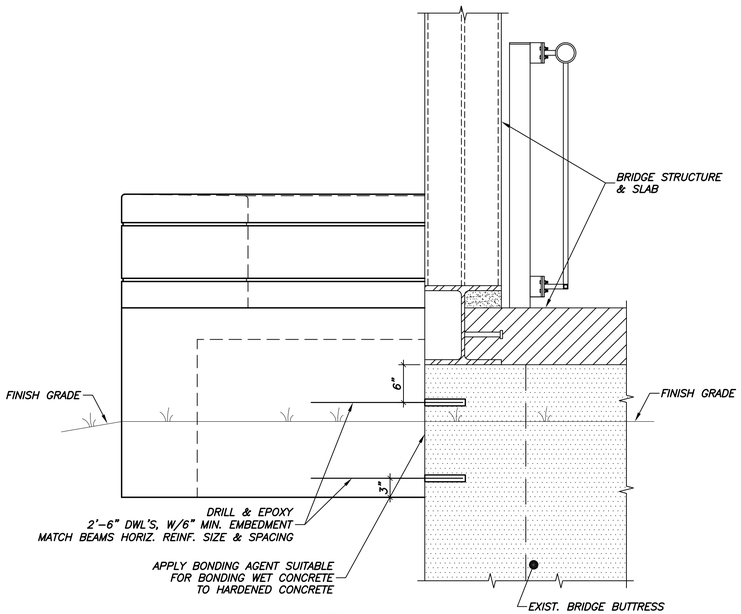
01 SECTION
1"=1'-0"



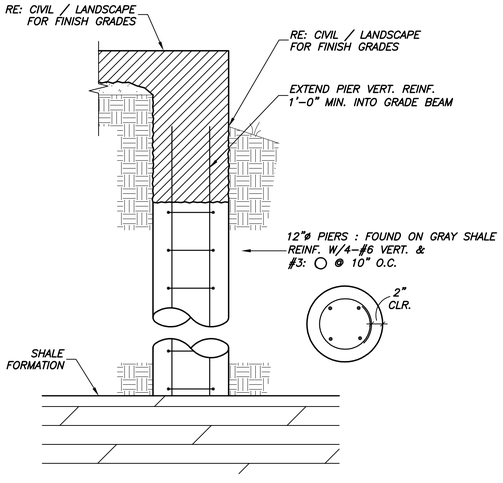
02 SECTION
1"=1'-0"



03 SECTION
1"=1'-0"



04 SECTION
1"=1'-0"



05 TYP. PIER
1"=1'-0"

STATE OF TEXAS
VICTOR LISSIAK, JR.
90555
LICENSED
PROFESSIONAL ENGINEER
11/03/09

TEXAS FIRM REG. # F-2658

ISSUED FOR BID

NO.	REVISION	BY	DATE

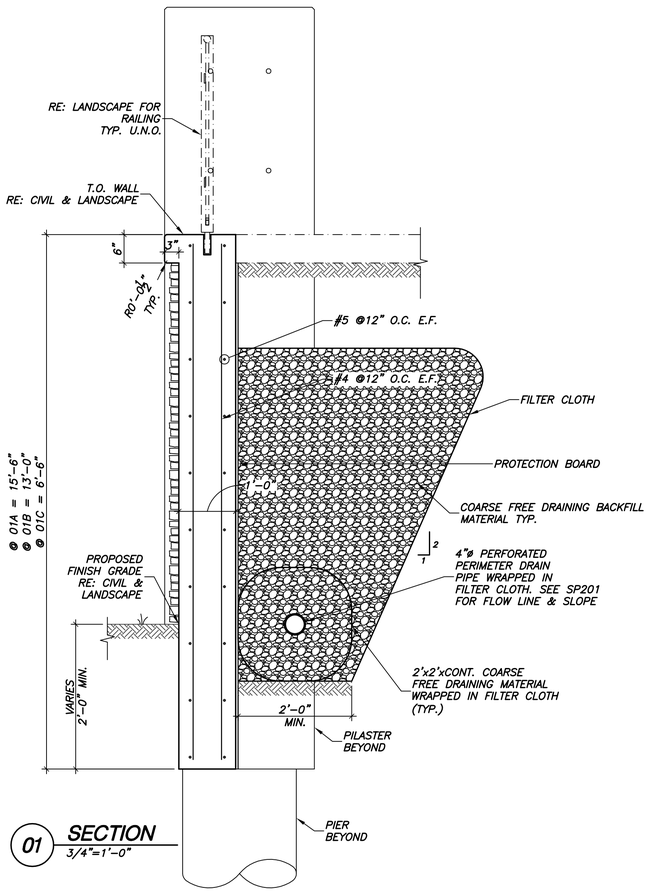
Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

SECTIONS & DETAILS

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

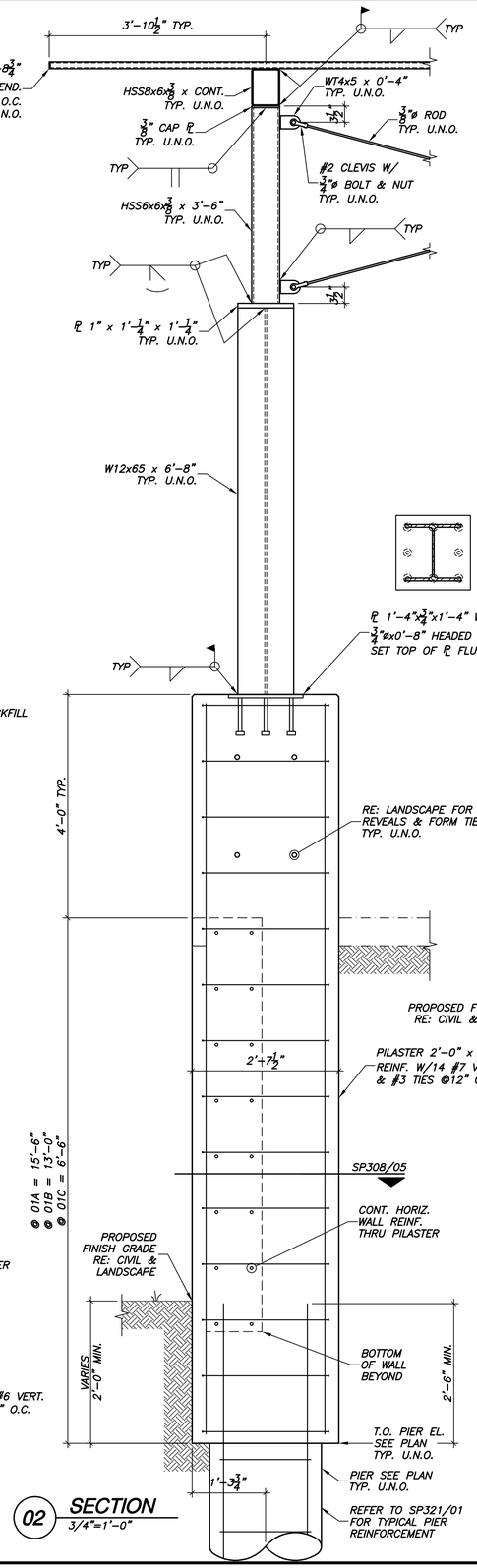
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP307



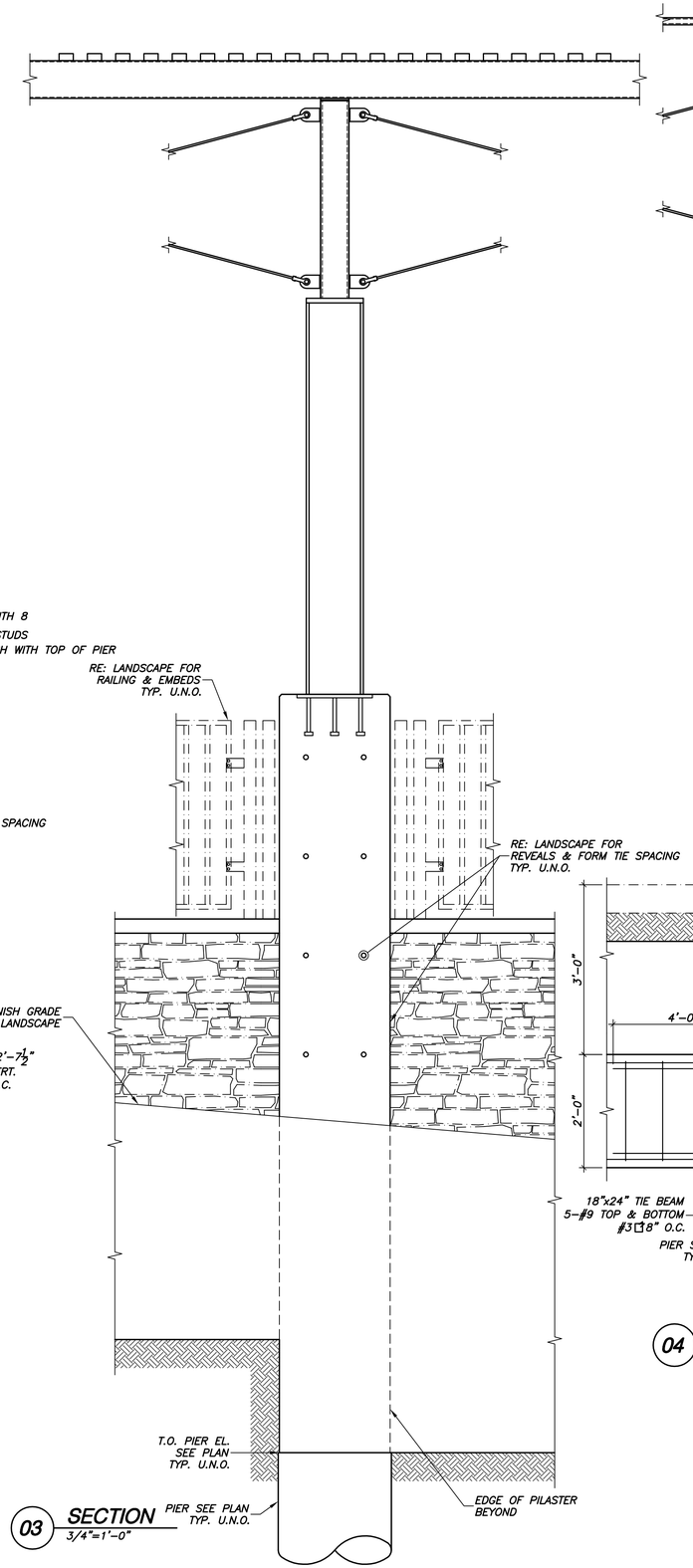
01 SECTION
3/4"=1'-0"

05A SECTION
¾"=1'-0"

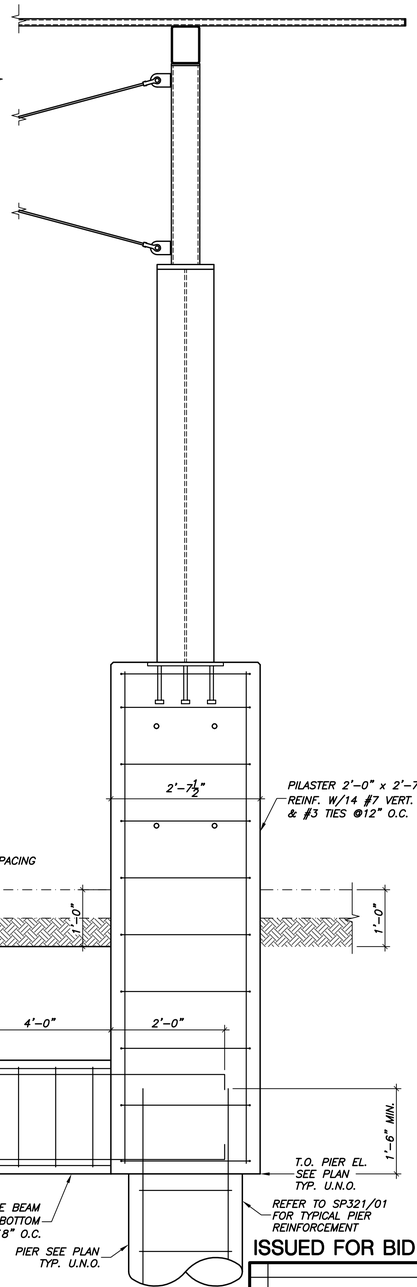
05B SECTION
¾"=1'-0"



02 SECTION
3/4"=1'-0"



03 SECTION
3/4"=1'-0"



04 SECTION
3/4"=1'-0"

STATE OF TEXAS
VICTOR LISSIAK, JR.
90535
LICENSED PROFESSIONAL ENGINEER
11/03/09
TEXAS FIRM REG. # F-2658

ISSUED FOR BID

NO.	REVISION	BY	DATE

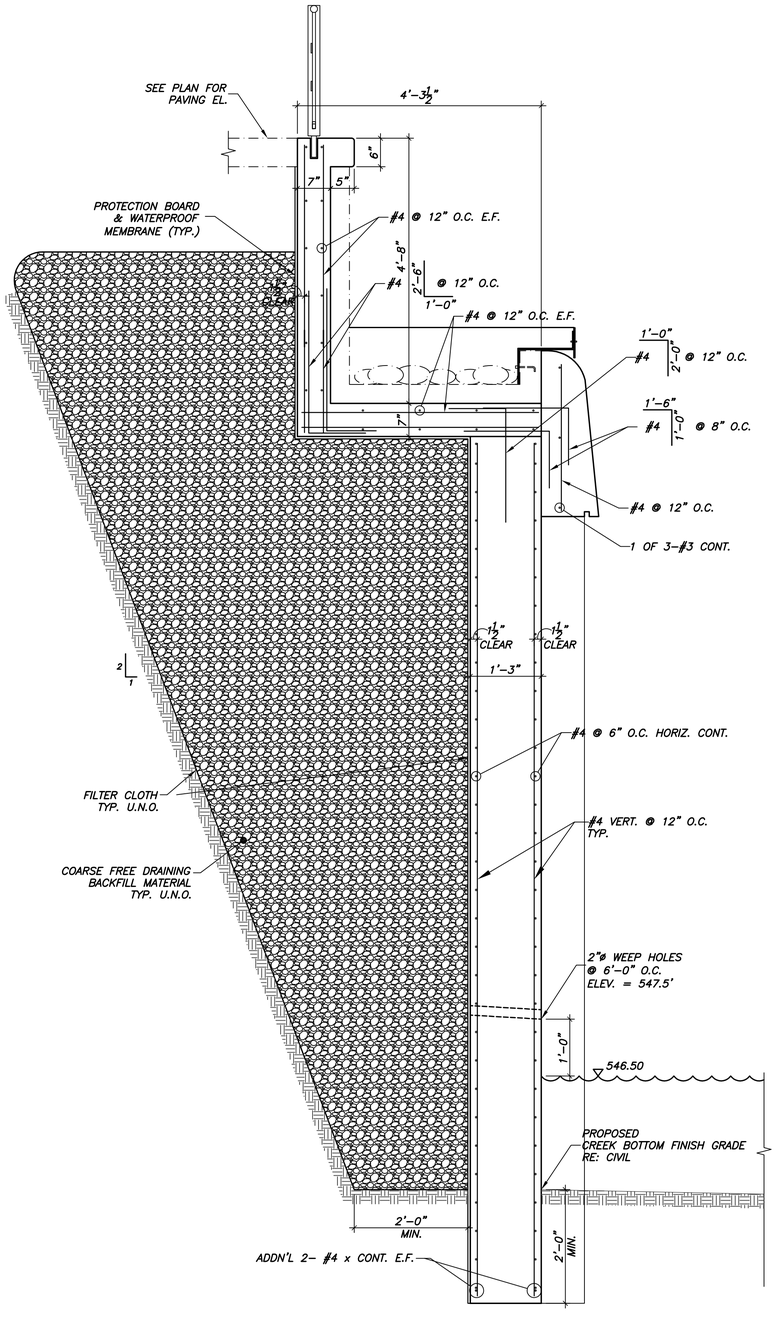
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

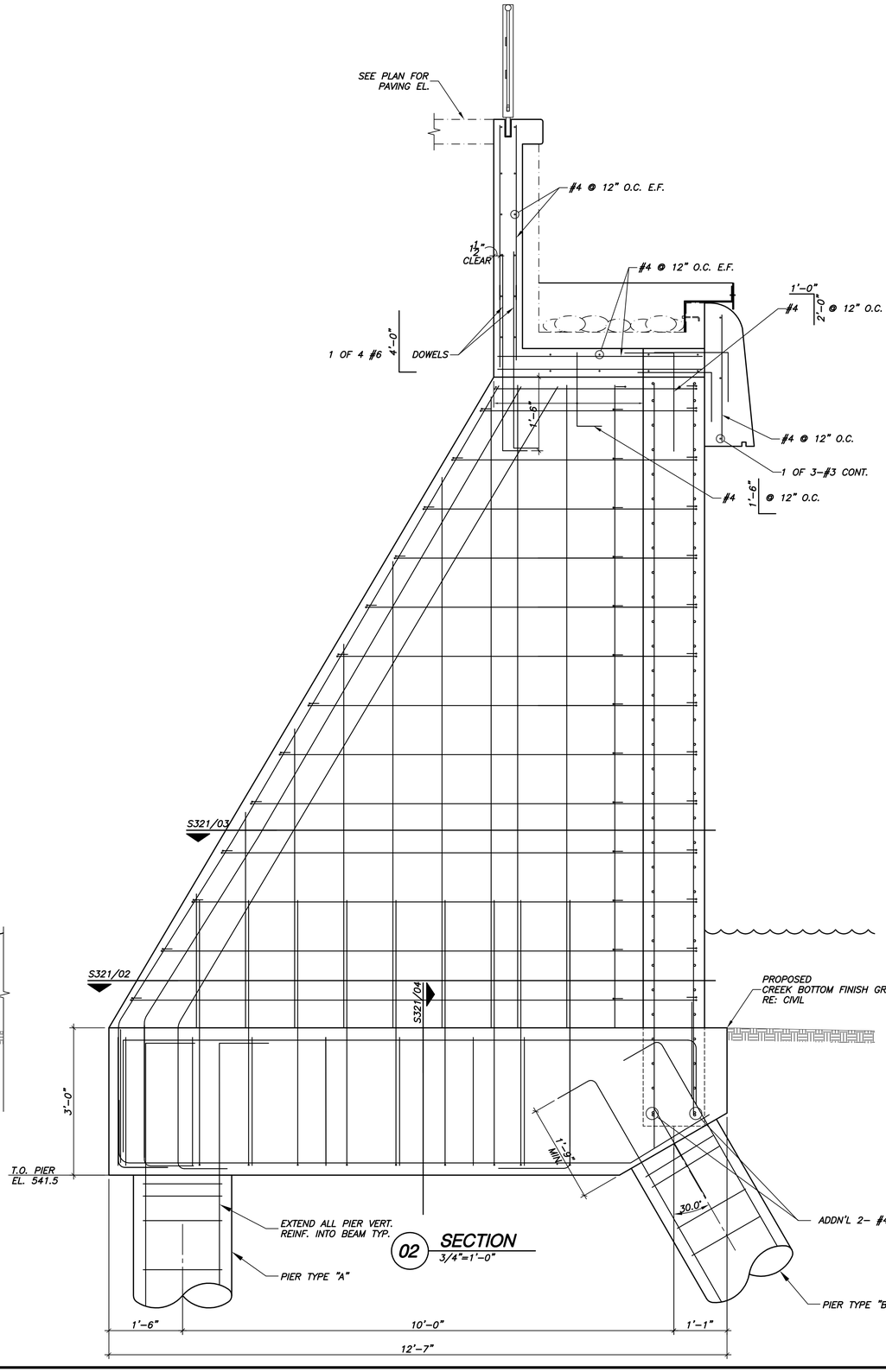
SECTIONS & DETAILS

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

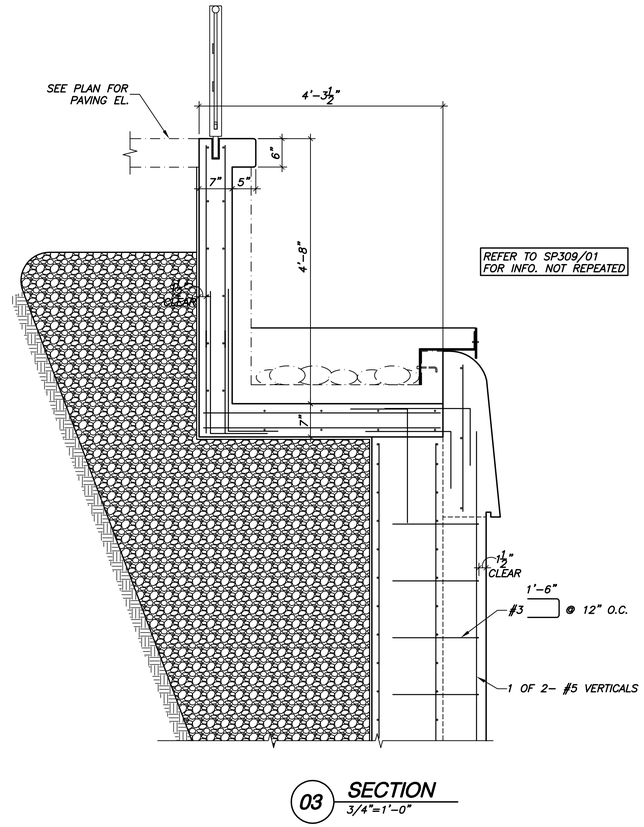
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP308



01 SECTION
3/4"=1'-0"



02 SECTION
3/4"=1'-0"



03 SECTION
3/4"=1'-0"

STATE OF TEXAS
VICTOR LISSIAK, JR.
30535
LICENSED PROFESSIONAL ENGINEER
11/03/09

TEXAS FIRM REG. # F-2658

ISSUED FOR BID

NO.	REVISION	BY	DATE

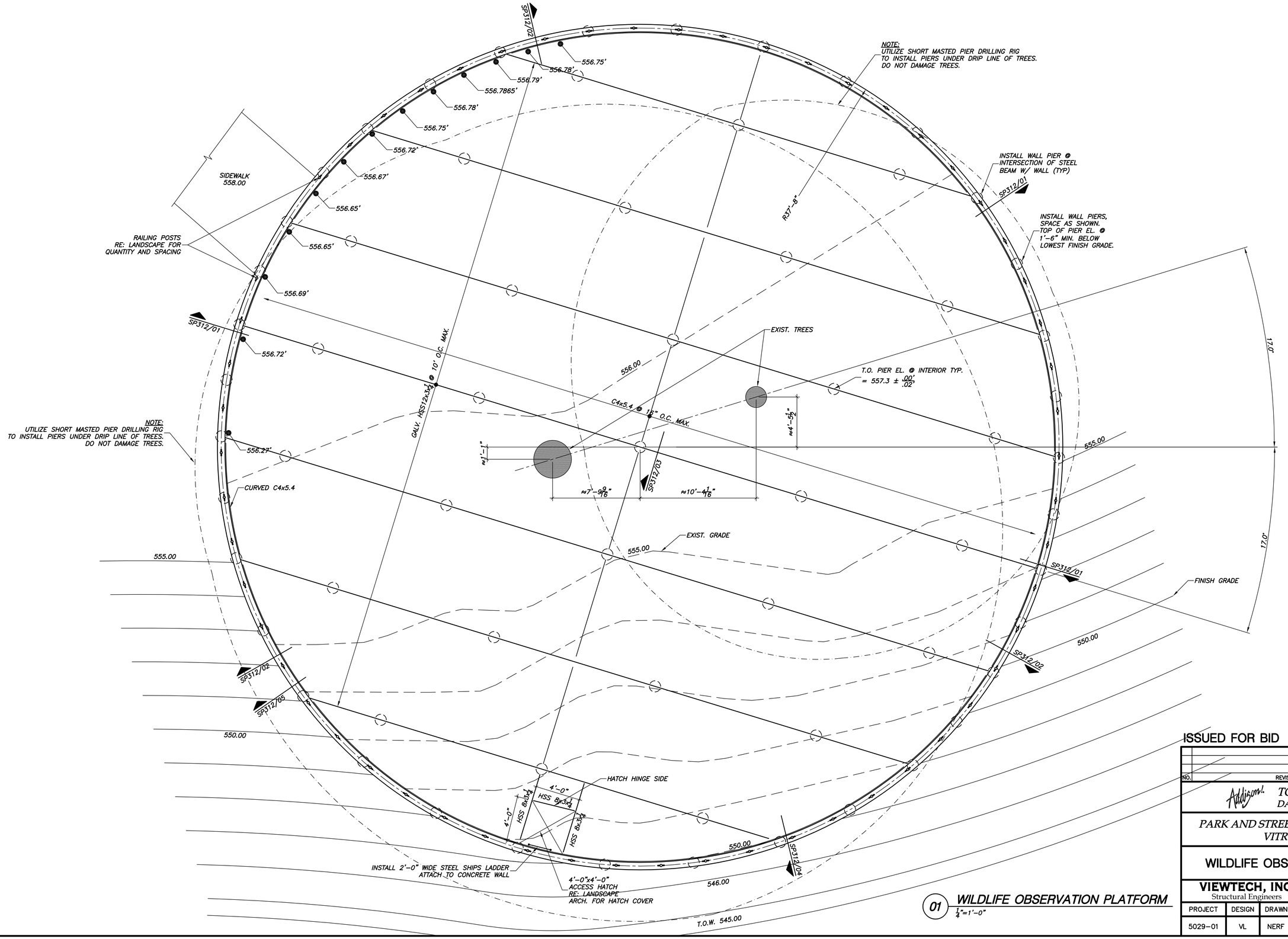
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

SECTIONS & DETAILS

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP309



STATE OF TEXAS
VICTOR LISSIAK, JR.
30555
LICENSED
PROFESSIONAL ENGINEER
11/03/09

TEXAS FIRM REG. # F-2658

ISSUED FOR BID

NO.	REVISION	BY	DATE

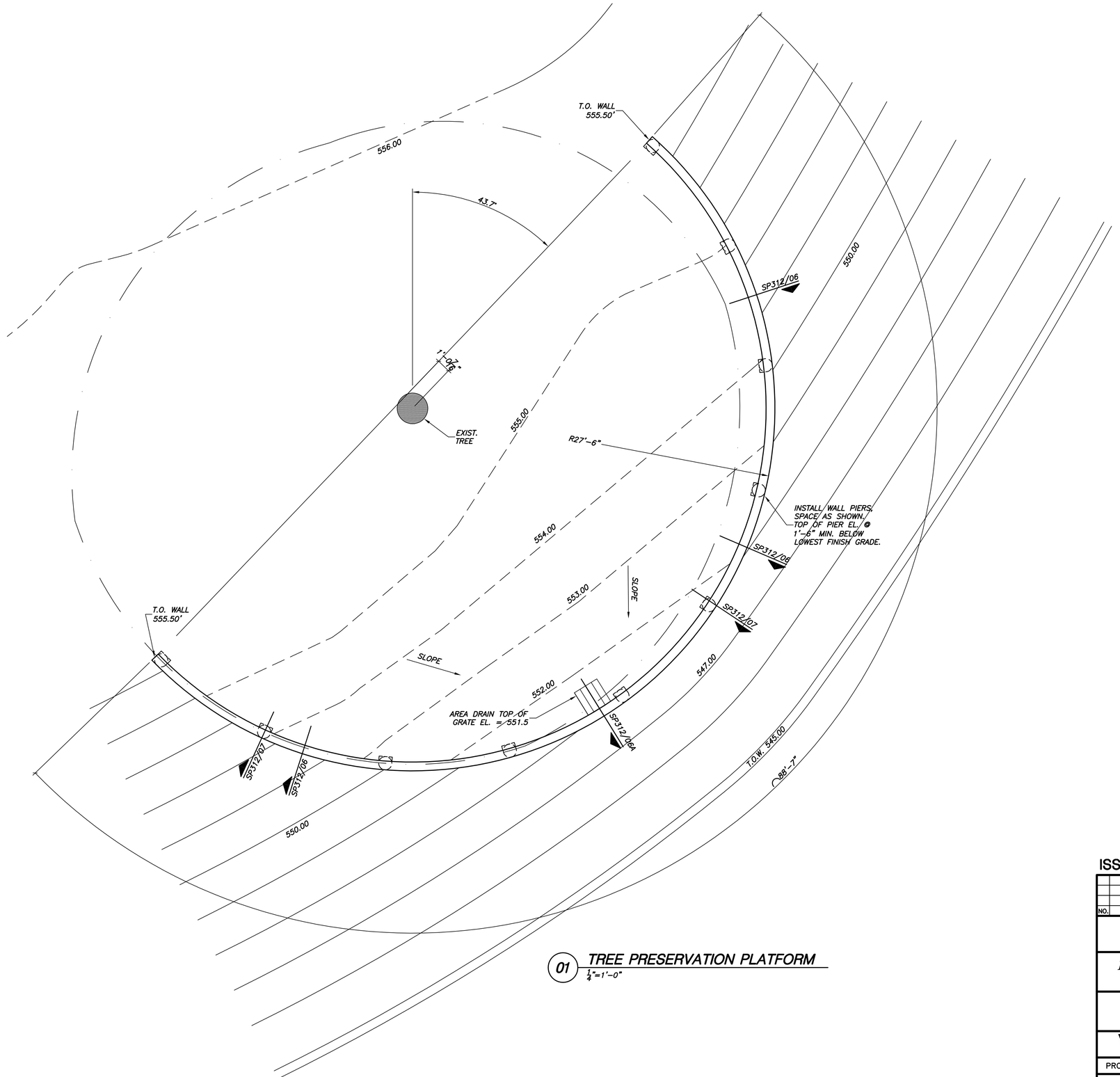
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

WILDLIFE OBSERVATION PLATFORM

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP310



01 TREE PRESERVATION PLATFORM
1/4"=1'-0"

ISSUED FOR BID

STATE OF TEXAS
VICTOR LISSIAK, JR.
90555
LICENSED
PROFESSIONAL ENGINEER
11/03/09

TEXAS FIRM REG. # F-2658

NO.	REVISION	BY	DATE

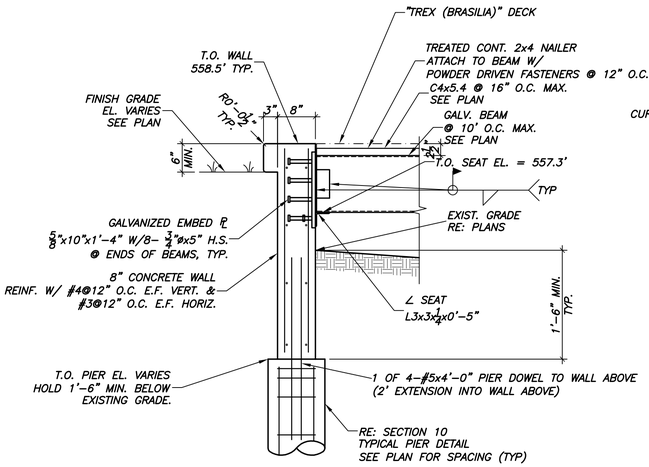
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

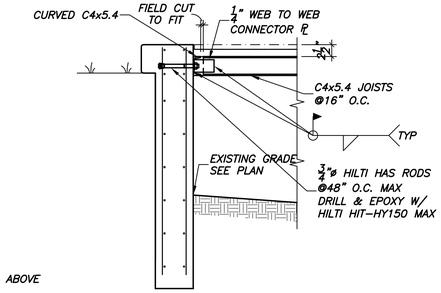
TREE PRESERVATION PLATFORM

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

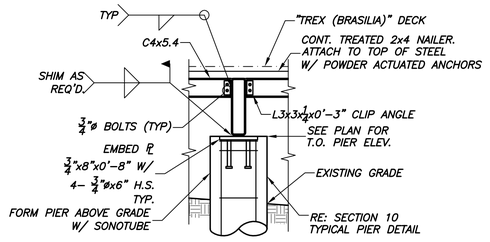
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP311



01 SECTION
3/4"=1'-0"

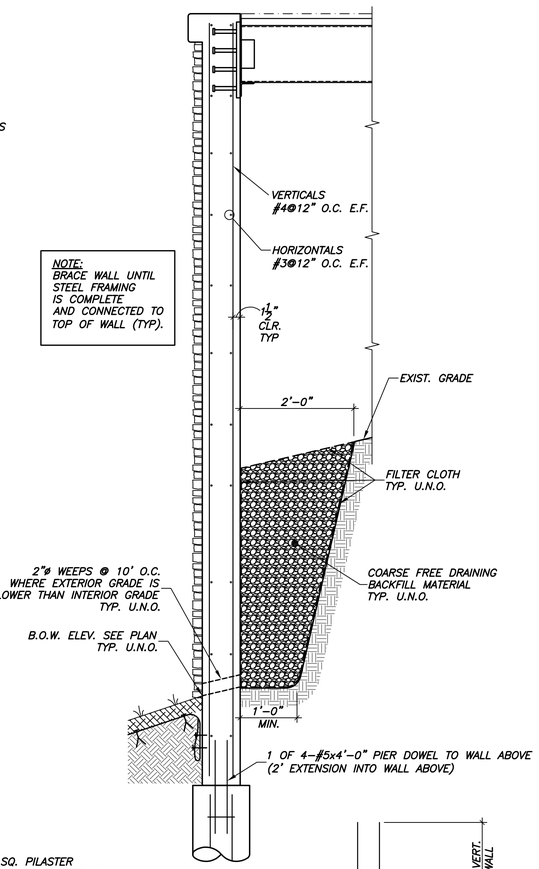


02 SECTION
3/4"=1'-0"



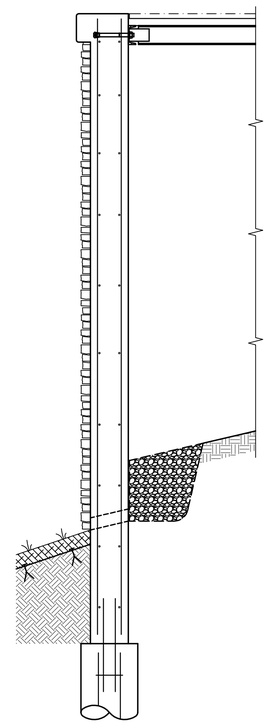
03 SECTION
3/4"=1'-0"

RE: SECTION 01
FOR INFO NOT REPEATED



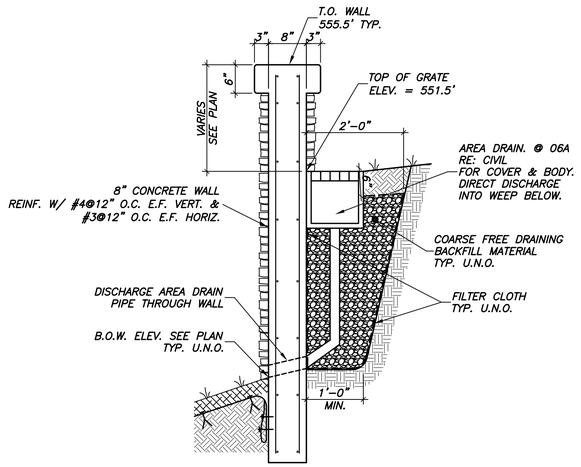
NOTE:
BRACE WALL UNTIL STEEL FRAMING IS COMPLETE AND CONNECTED TO TOP OF WALL (TYP).

RE: SECTION 02
FOR INFO NOT REPEATED

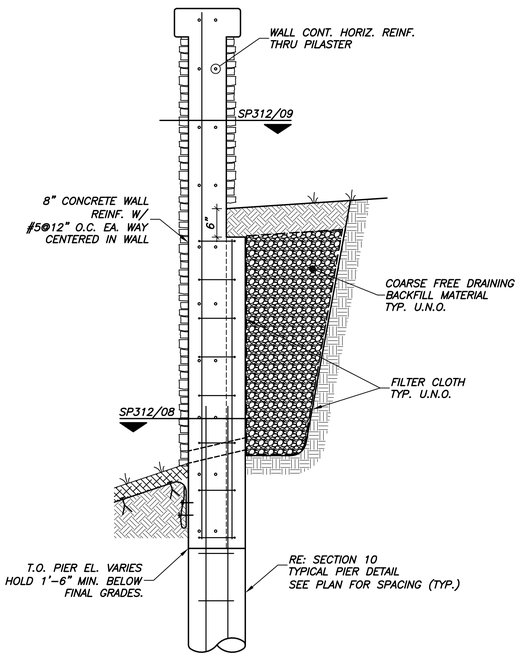


04 SECTION
3/4"=1'-0"

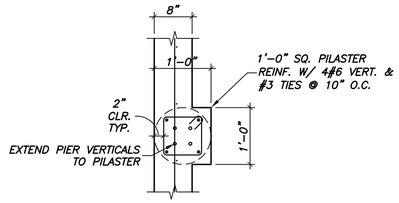
05 SECTION
3/4"=1'-0"



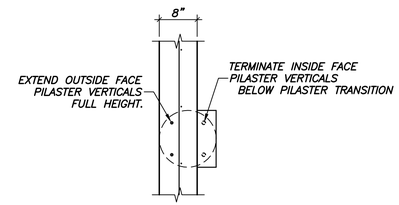
06A 06 SECTION
3/4"=1'-0"



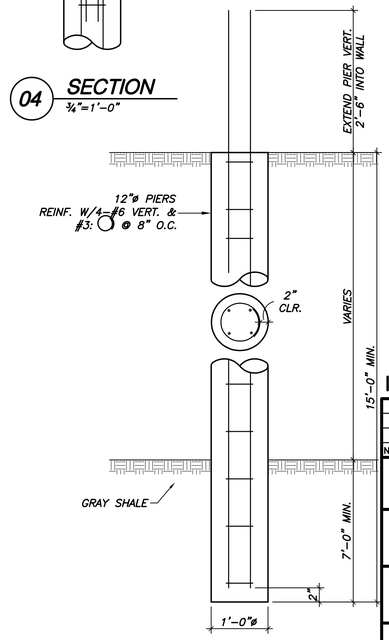
07 SECTION
3/4"=1'-0"



08 SECTION
3/4"=1'-0"



09 SECTION
3/4"=1'-0"



10 TYPICAL PIER DETAIL
3/4"=1'-0"

STATE OF TEXAS
VICTOR LISSIAK, JR.
30555
LICENSED PROFESSIONAL ENGINEER
11/03/09
TEXAS FIRM REG. # F-2658

ISSUED FOR BID

NO.	REVISION	BY	DATE

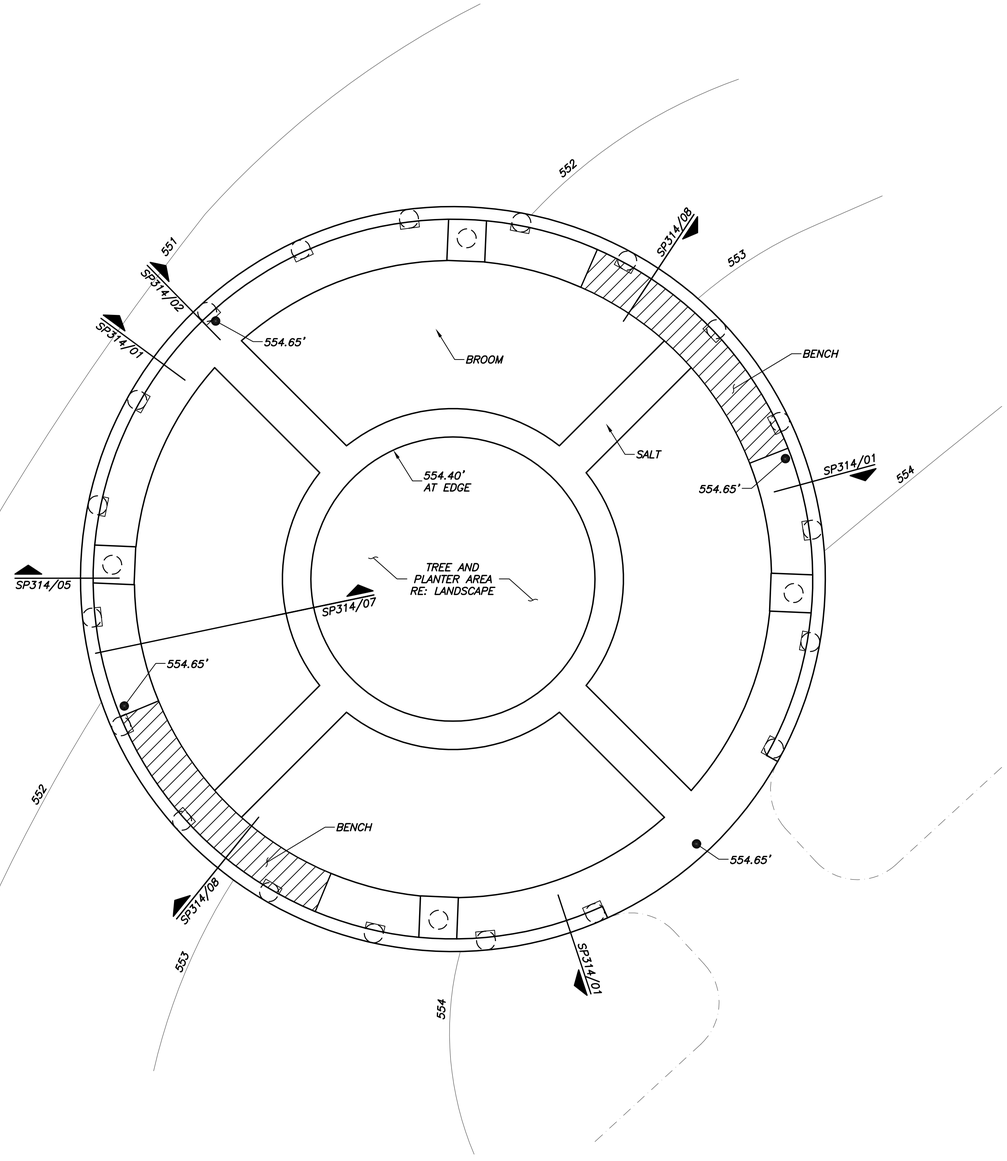
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

SECTIONS & DETAILS

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP312



01 BELVEDERE PLAN

1/4"=1'-0"

STATE OF TEXAS
VICTOR LISSIAK, JR.
30555
LICENSED
PROFESSIONAL ENGINEER
11/03/09

TEXAS FIRM REG. # F-2658

ISSUED FOR BID

NO.	REVISION	BY	DATE

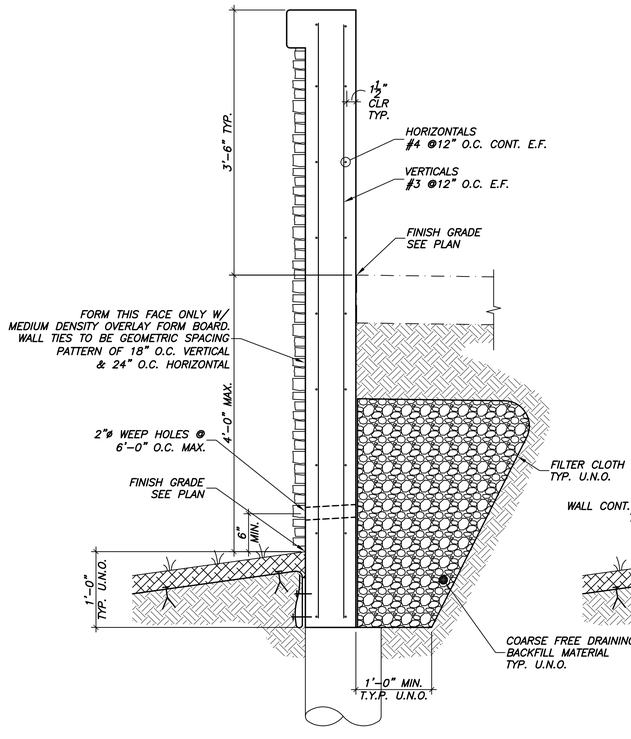
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

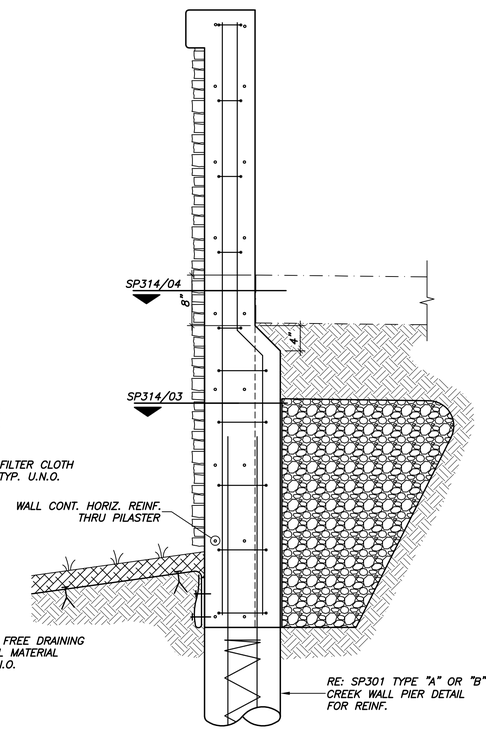
BELVEDERE PLAN

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

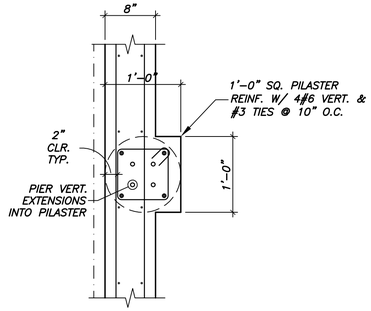
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP313



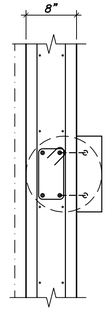
01 SECTION
1"=1'-0"



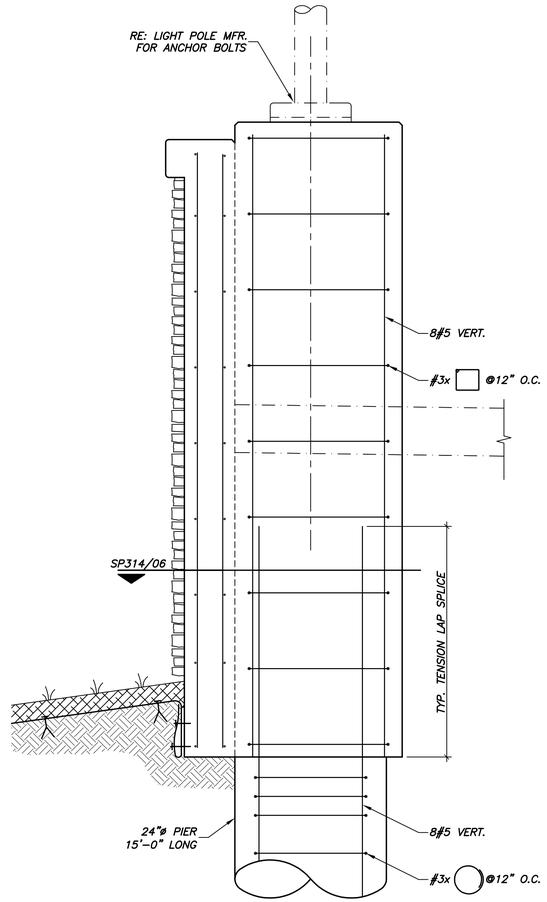
02 SECTION
1"=1'-0"



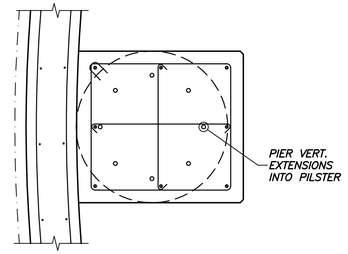
03 SECTION
1"=1'-0"



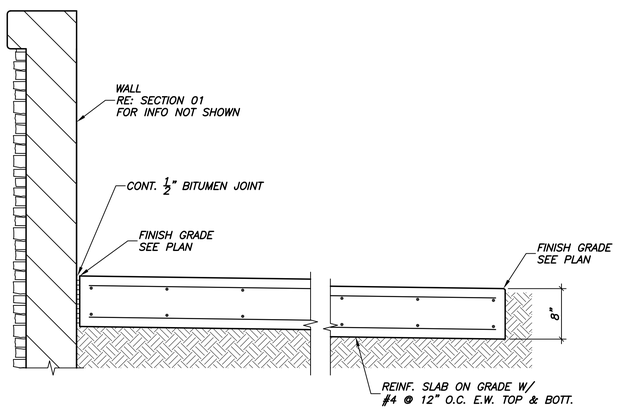
04 SECTION
1"=1'-0"



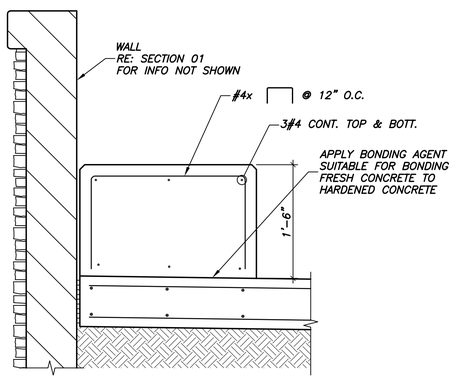
05 SECTION
1"=1'-0"



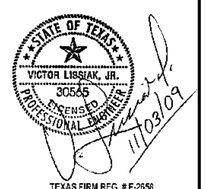
06 SECTION
1"=1'-0"



07 SECTION
1"=1'-0"



08 SECTION
1"=1'-0"



TEXAS FIRM REG. # F-2558

ISSUED FOR BID

NO.	REVISION	BY	DATE

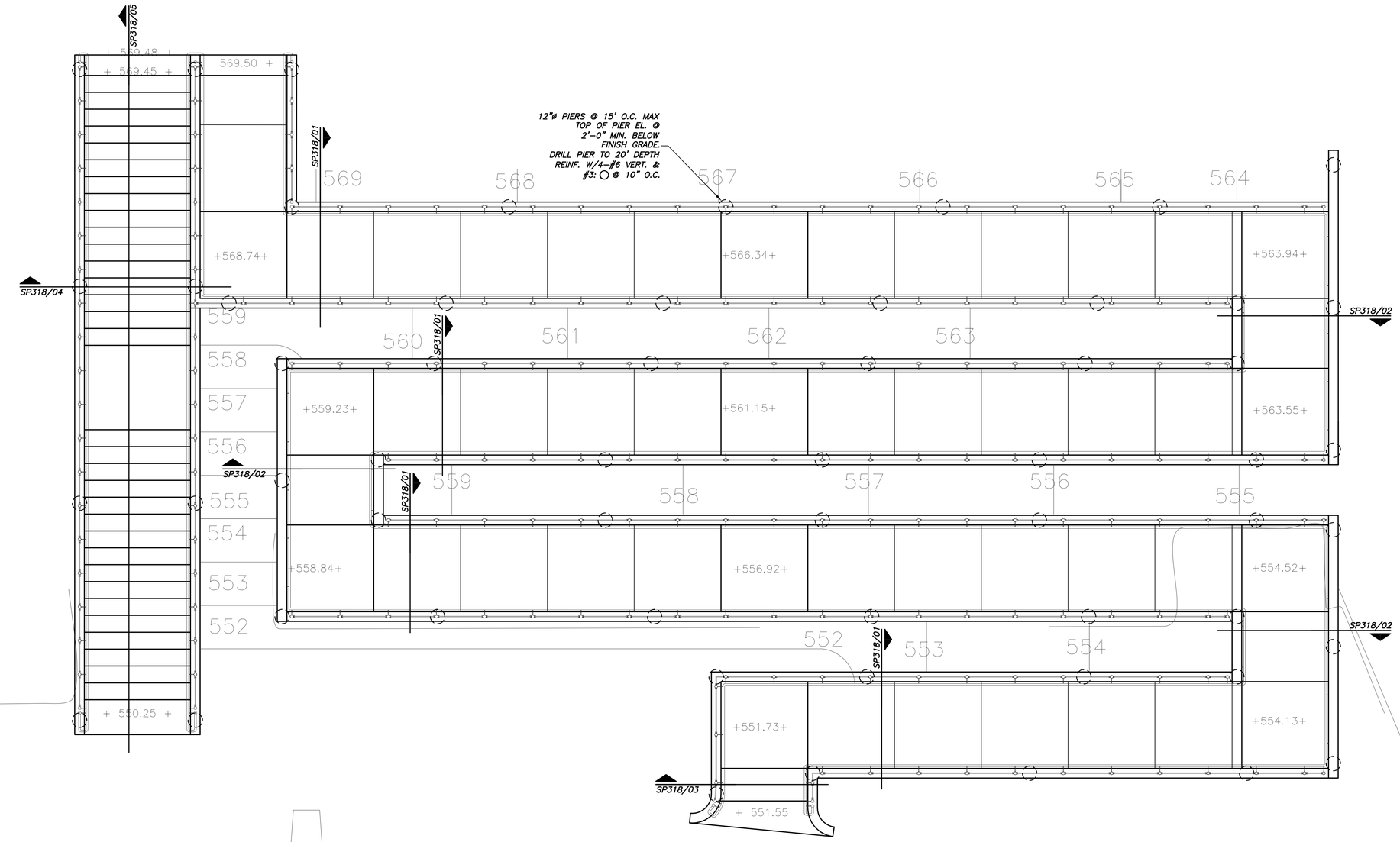
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

SECTIONS & DETAILS

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP314



01 RAMP & STAIR PLAN
1/4"=1'-0"

ISSUED FOR BID

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

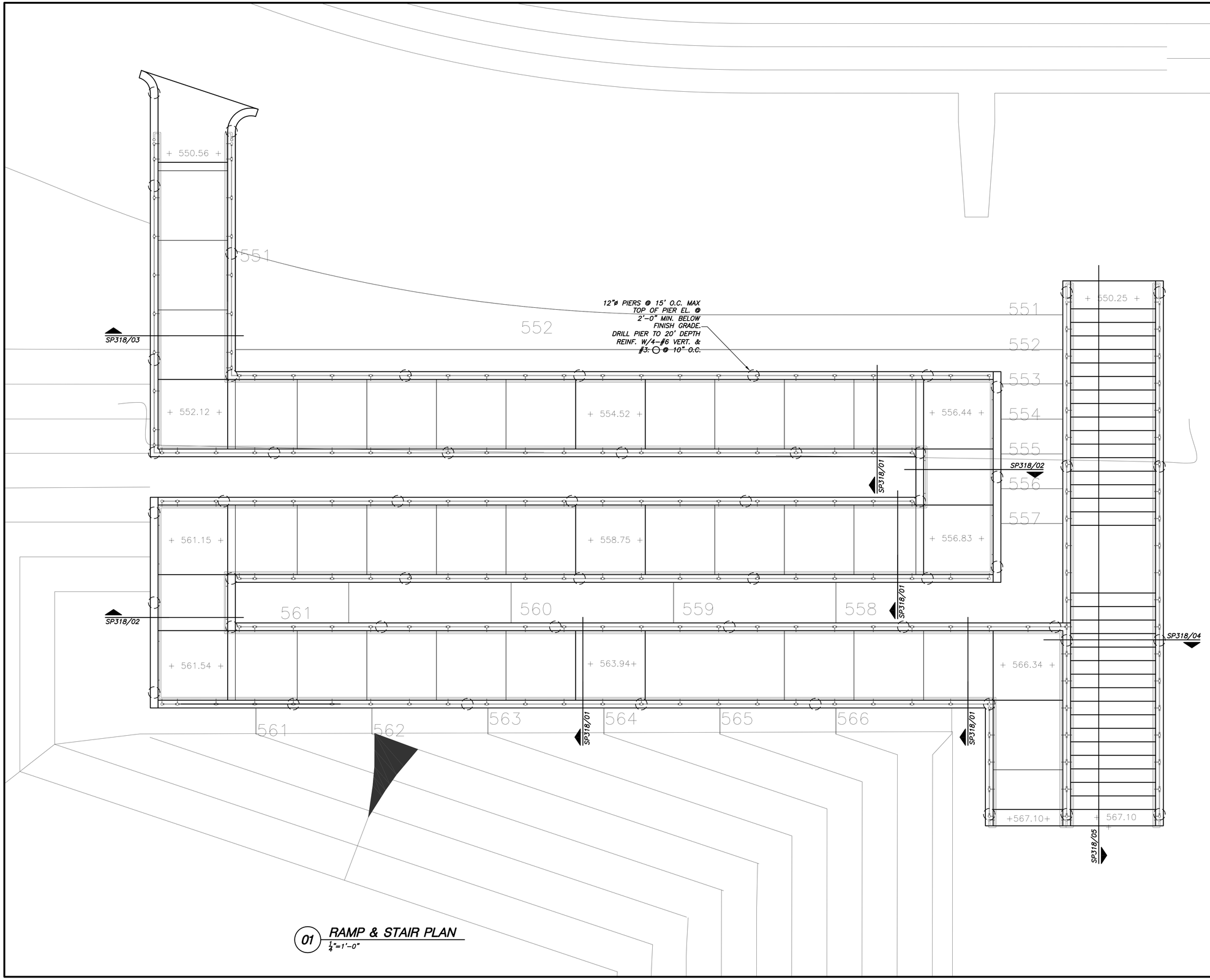
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

PONTE AVE
NORTH EAST RAMP & STAIR PLAN

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

STATE OF TEXAS
VICTOR LISSIAK, JR.
30535
LICENSED
PROFESSIONAL ENGINEER
11/03/09
TEXAS FIRM REG. # F-2658

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP315



01 RAMP & STAIR PLAN
1/4"=1'-0"

ISSUED FOR BID

STATE OF TEXAS
VICTOR LISSIAK, JR.
30535
LICENSED
PROFESSIONAL ENGINEER
11/03/09

TEXAS FIRM REG. # F-2658

NO.	REVISION	BY	DATE

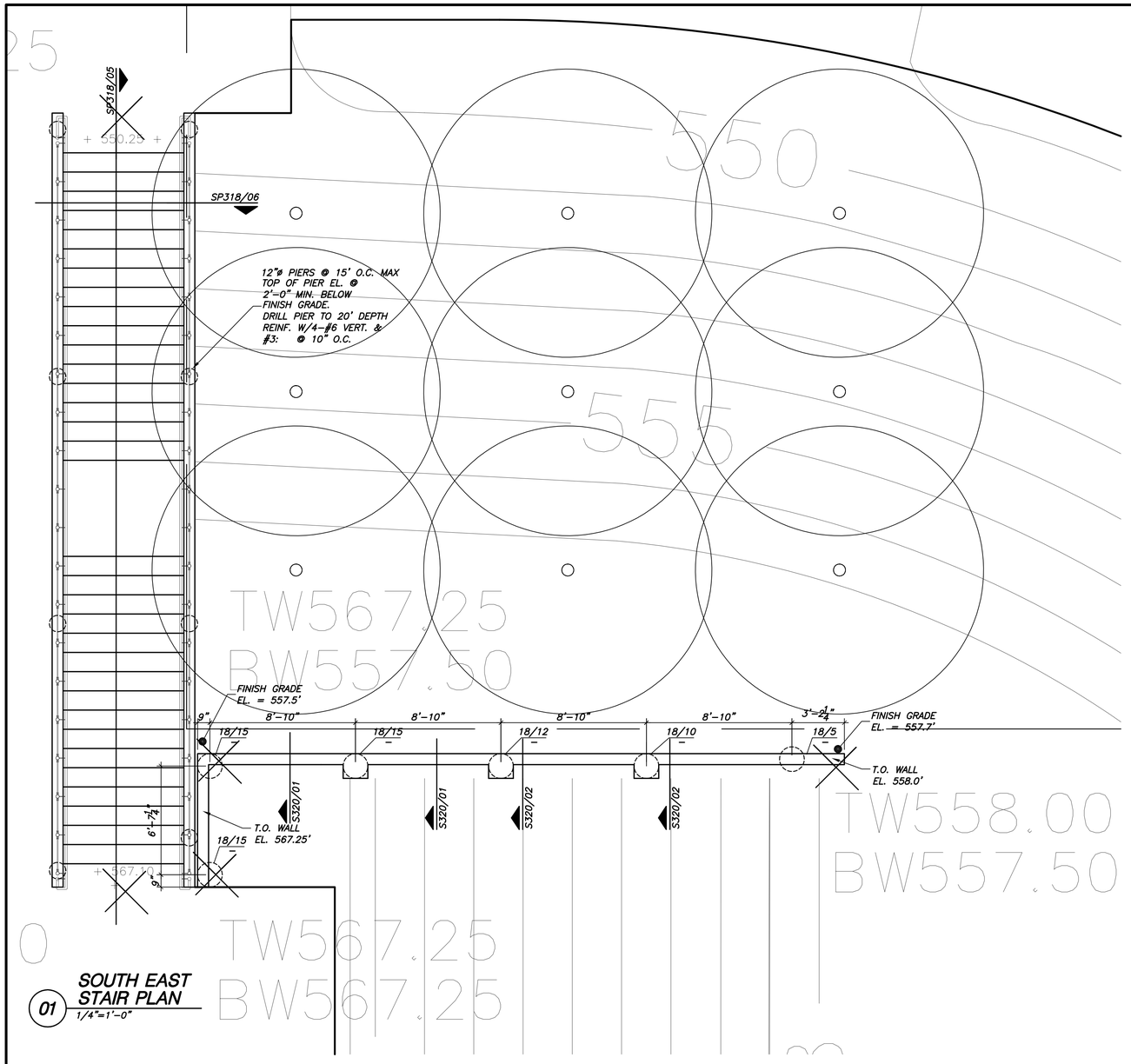
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

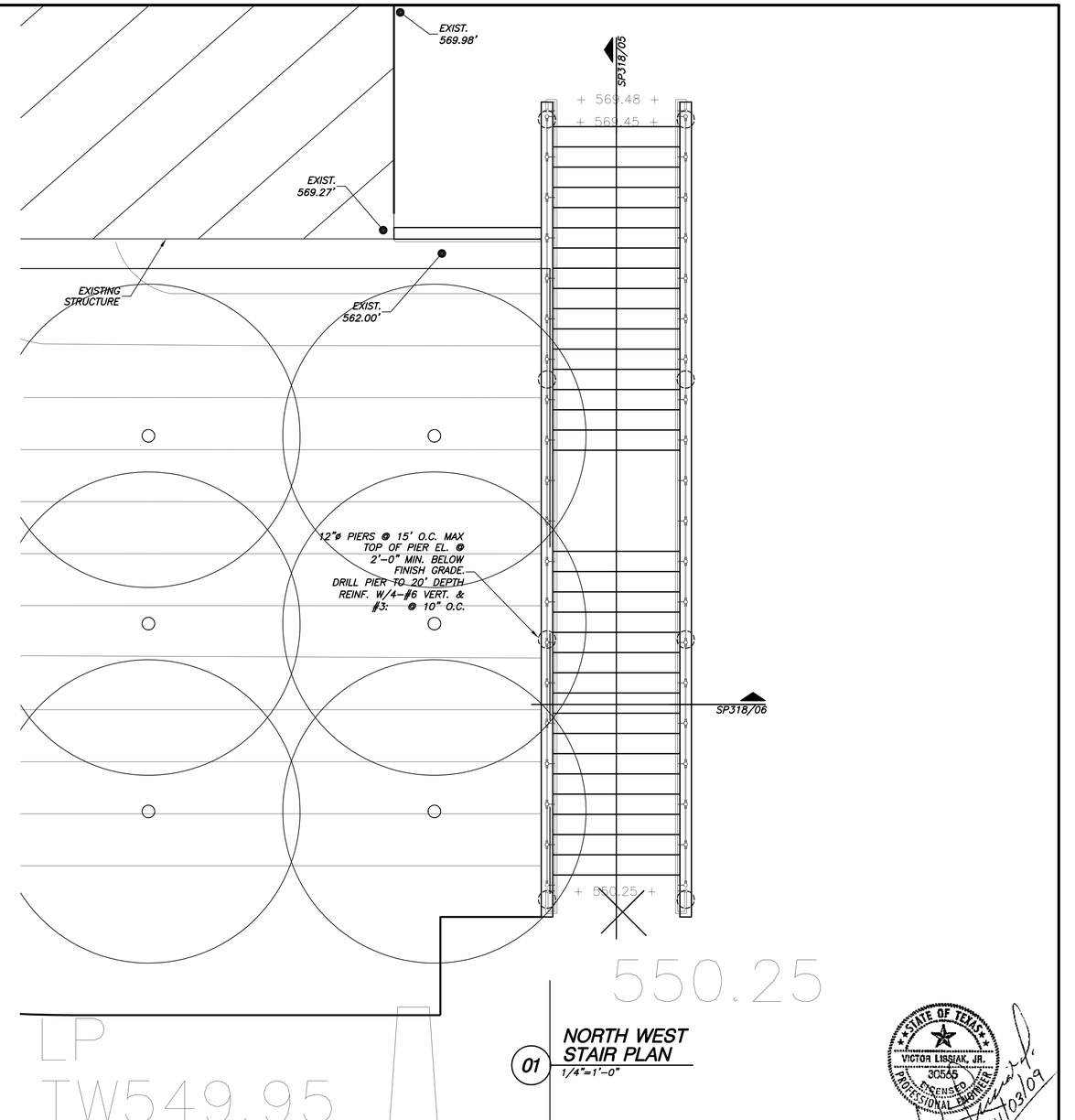
PONTE AVE
SOUTH WEST RAMP & STAIR PLAN

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP316



01 **SOUTH EAST STAIR PLAN**
1/4"=1'-0"



01 **NORTH WEST STAIR PLAN**
1/4"=1'-0"

STATE OF TEXAS
VICTOR LISSIAK, JR.
30535
LICENSED
PROFESSIONAL ENGINEER
11/03/09

TEXAS FIRM REG. # F-2658

ISSUED FOR BID

NO.	REVISION	BY	DATE

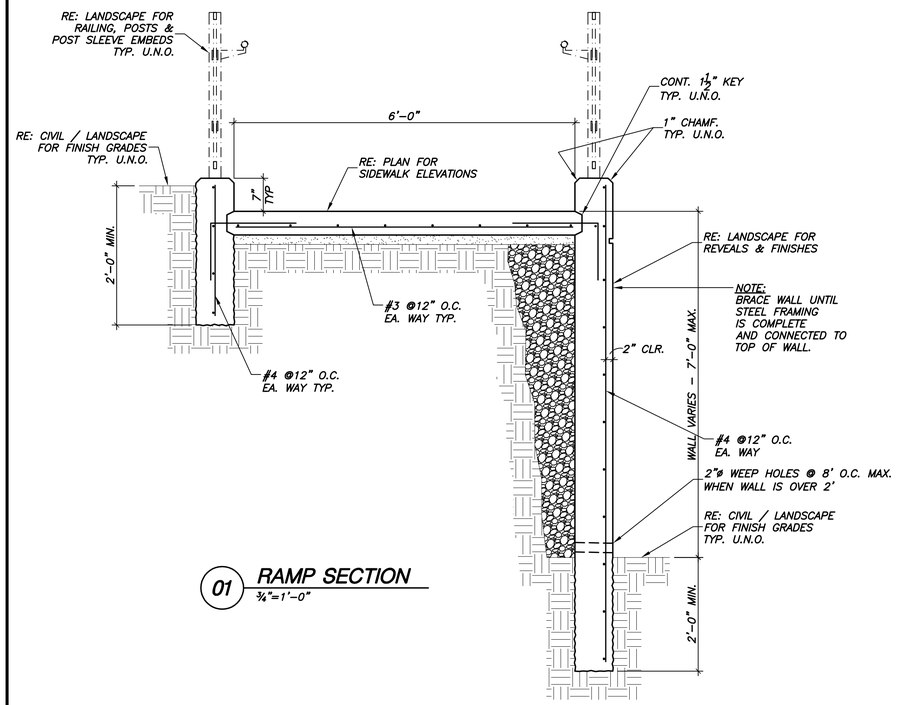
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

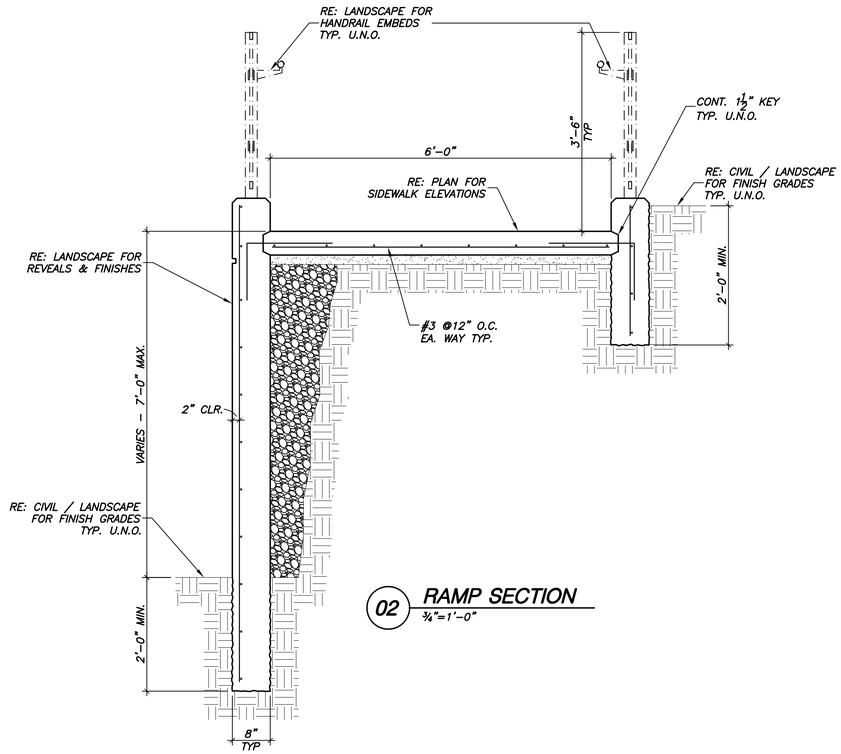
PONTE AVE
STAIR PLANS

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

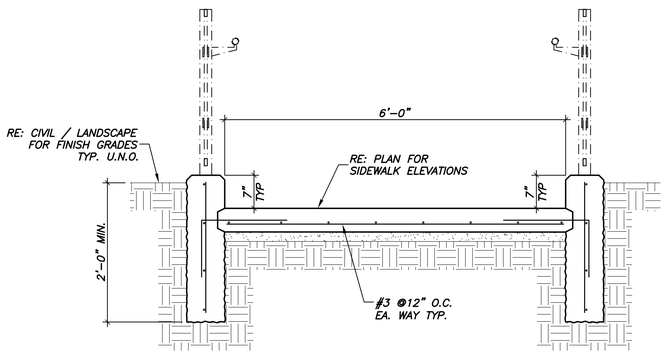
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP317



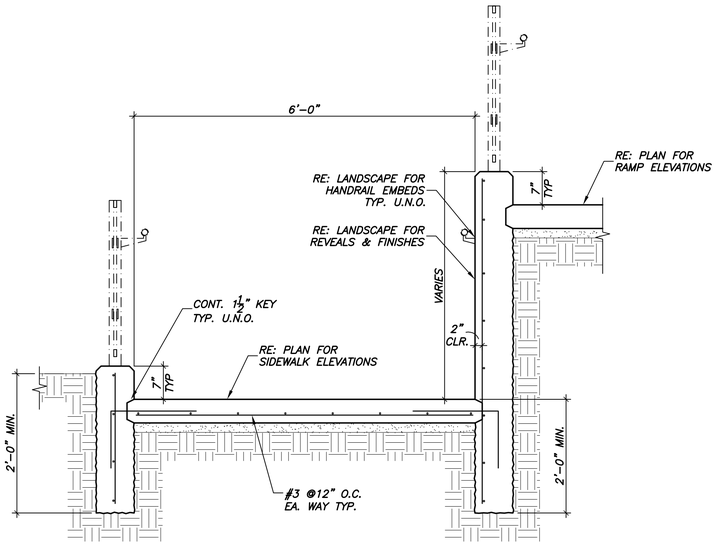
01 RAMP SECTION
¾"=1'-0"



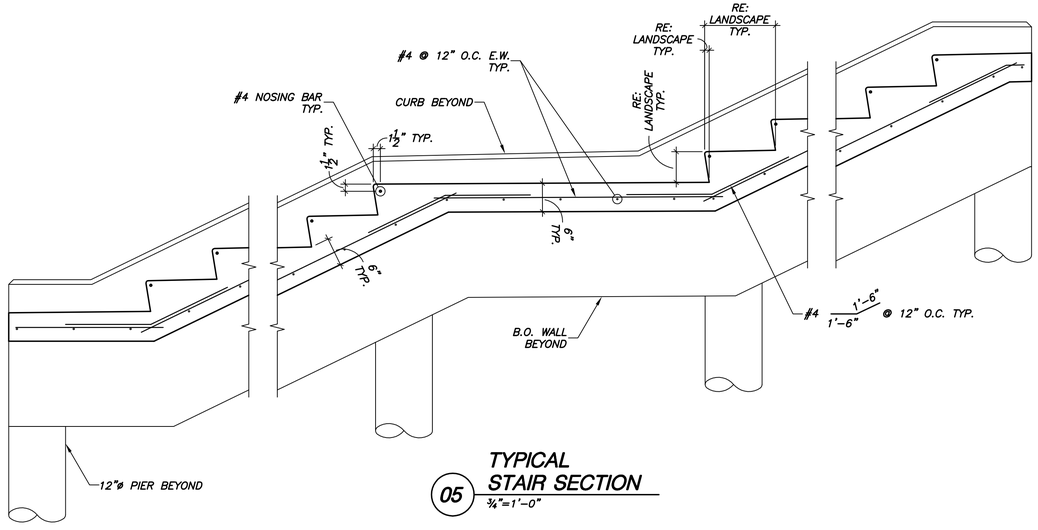
02 RAMP SECTION
¾"=1'-0"



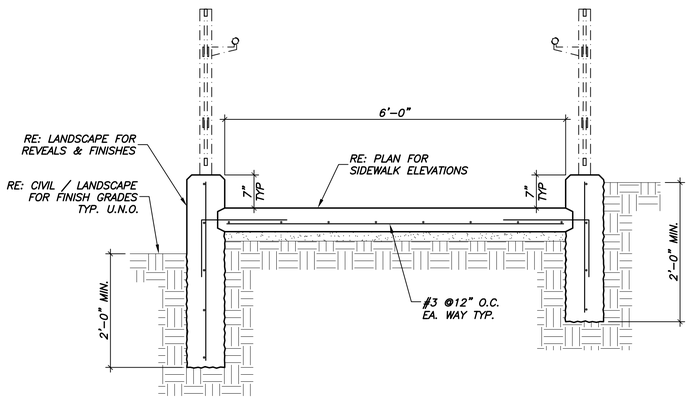
03 TYPICAL RAMP SECTION
¾"=1'-0"



04 TYPICAL RAMP SECTION
¾"=1'-0"



05 TYPICAL STAIR SECTION
¾"=1'-0"



06 TYPICAL STAIR SECTION
¾"=1'-0"

VICTOR LISSIAK, JR. 30565 LICENSED PROFESSIONAL ENGINEER
11/03/09
TEXAS FIRM REG. # F-2658

ISSUED FOR BID

NO.	REVISION	BY	DATE

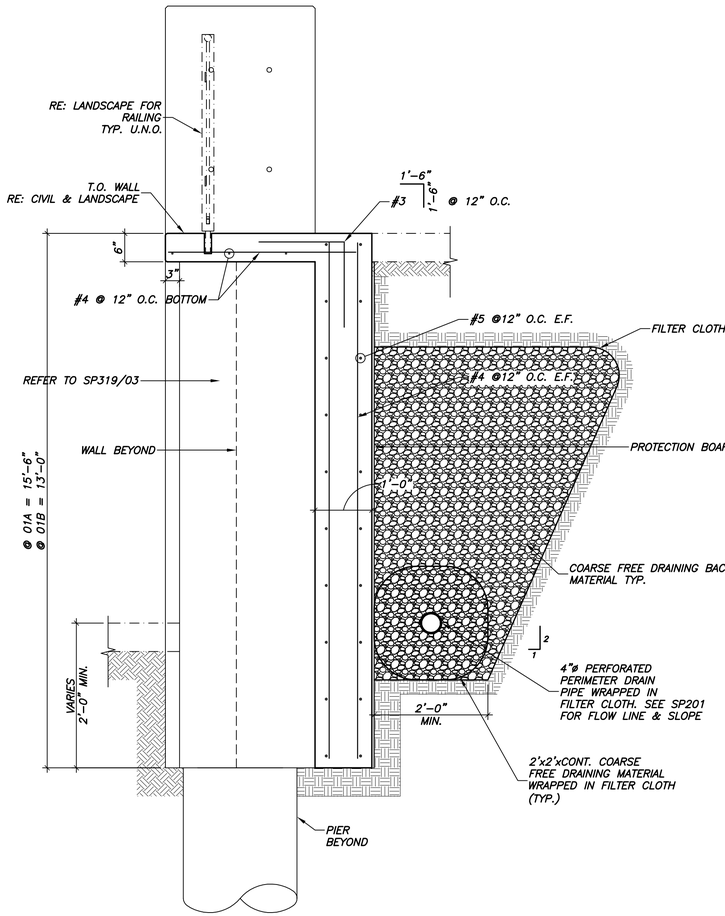
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

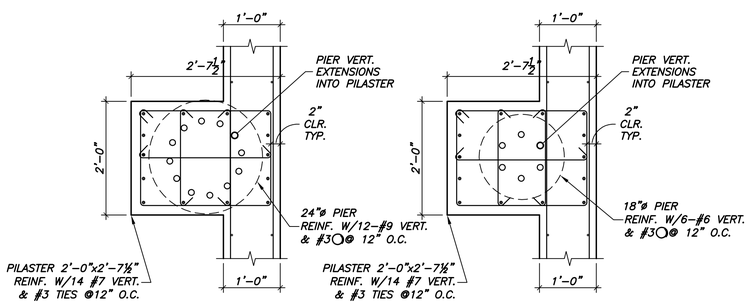
SECTIONS & DETAILS

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP318

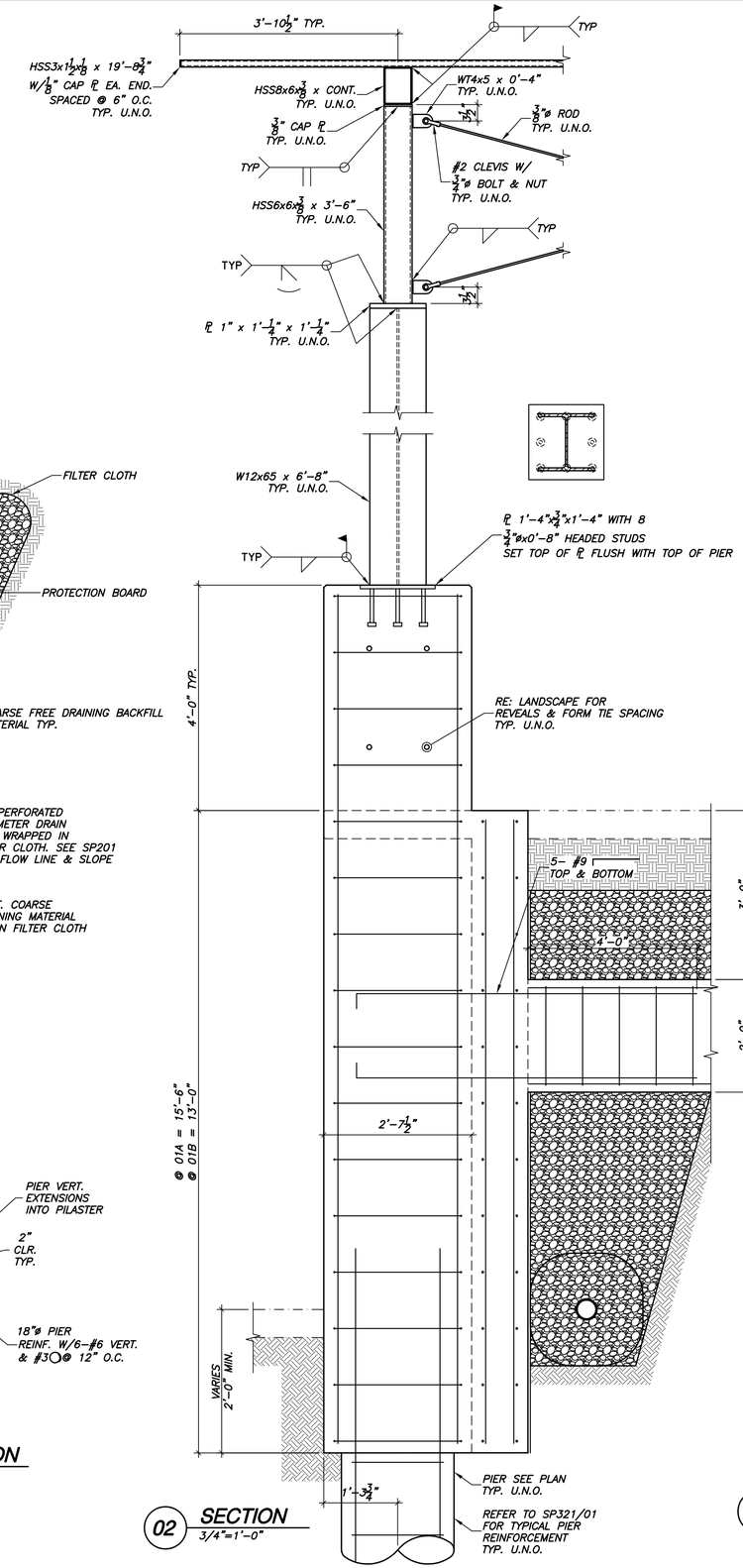


01 SECTION
3/4"=1'-0"

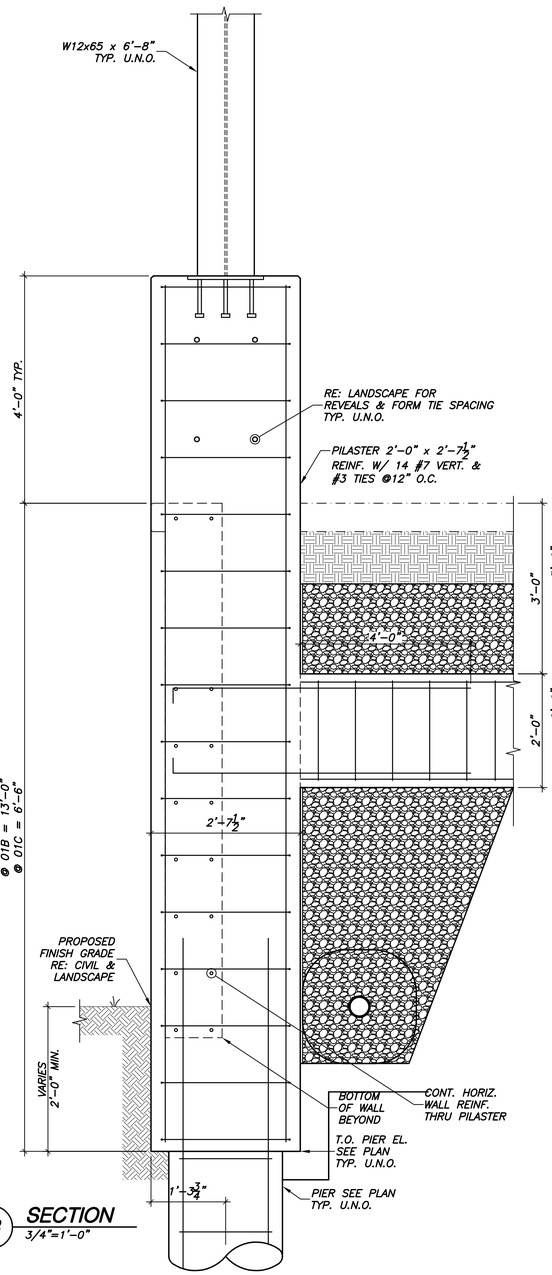


05A SECTION
¾"=1'-0"

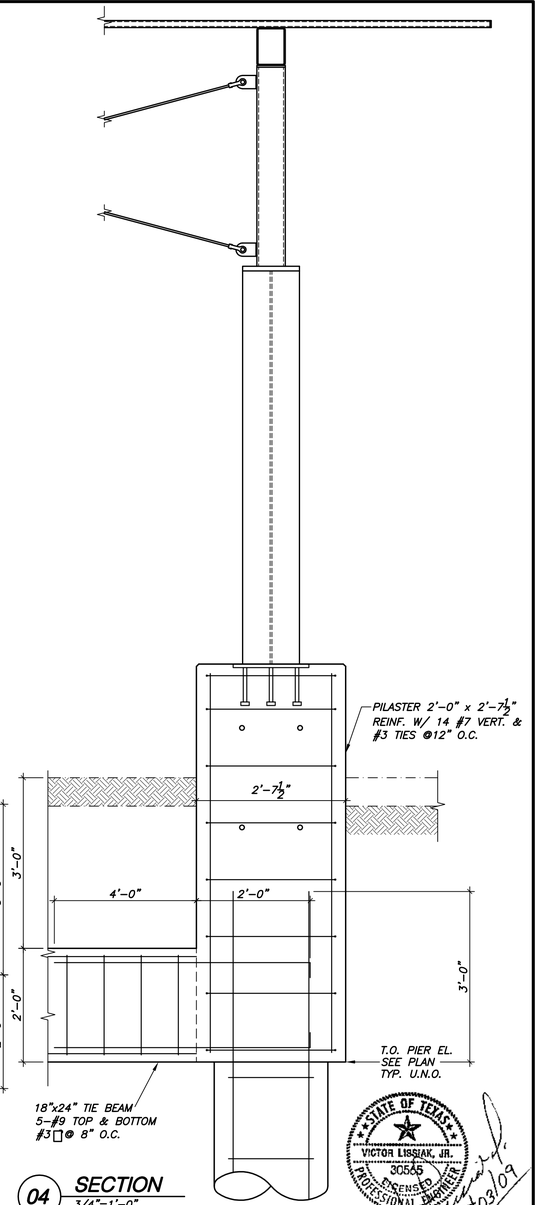
05B SECTION
¾"=1'-0"



02 SECTION
3/4"=1'-0"



03 SECTION
3/4"=1'-0"



04 SECTION
3/4"=1'-0"

STATE OF TEXAS
VICTOR LISSIAK, JR.
30535
LICENSED PROFESSIONAL ENGINEER
11/03/09
TEXAS FIRM REG. # F-2658

ISSUED FOR BID

NO.	REVISION	BY	DATE

Addison

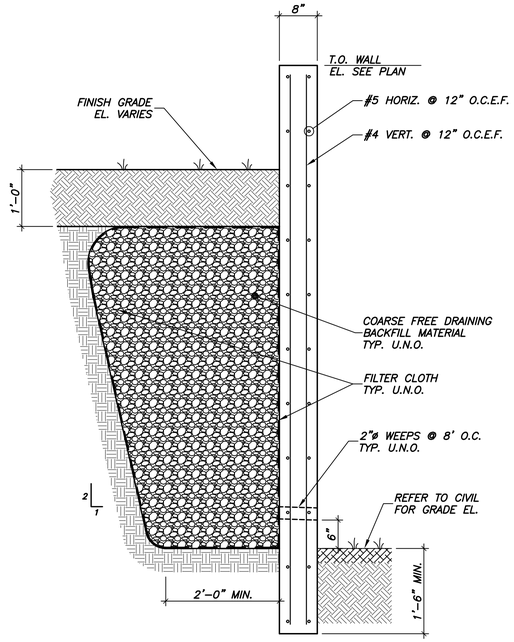
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

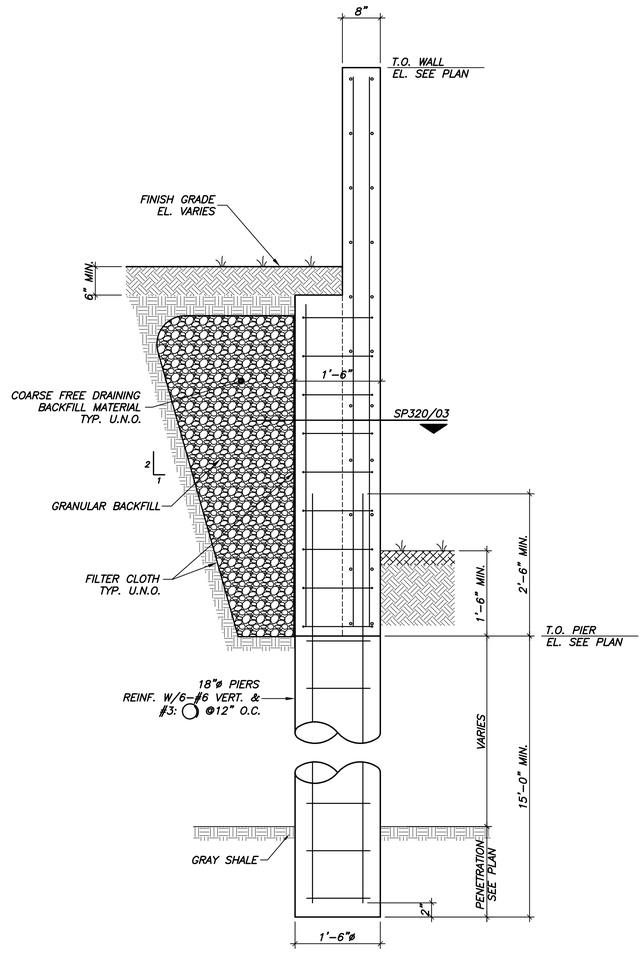
SECTIONS & DETAILS

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

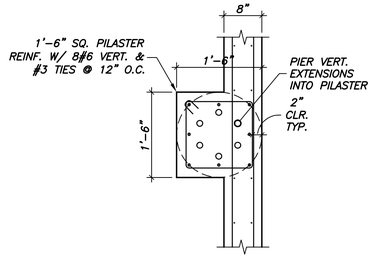
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP319



01 SECTION
3/4"=1'-0"



02 SECTION
3/4"=1'-0"



03 SECTION
3/4"=1'-0"

STATE OF TEXAS
VICTOR LISSIAK, JR.
30535
LICENSED
PROFESSIONAL ENGINEER
11/03/09
TEXAS FIRM REG. # F-2658

ISSUED FOR BID

NO.	REVISION	BY	DATE

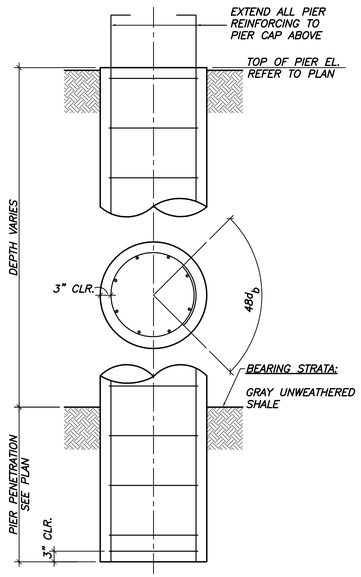
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

SECTIONS & DETAILS

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP320



TYPICAL PIER REINFORCING:

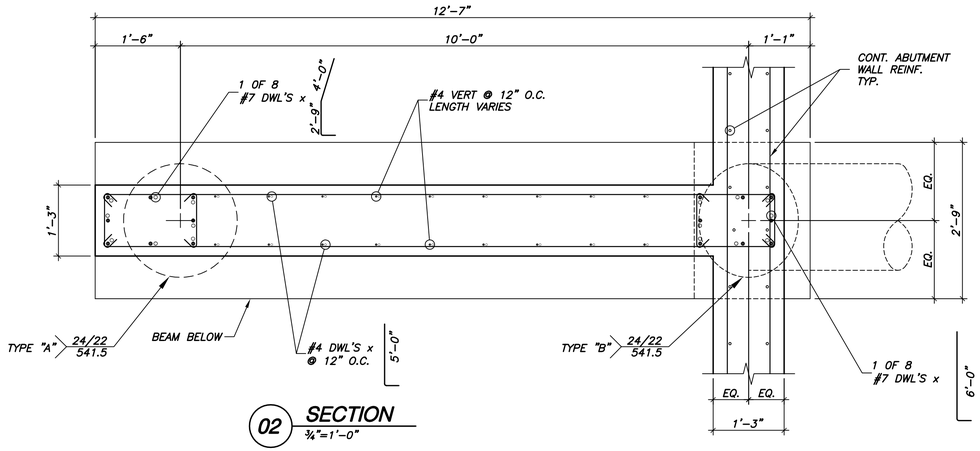
24"ø PIER SHAFT – TYPICAL
12– #9 VERTICAL Fc' = 4000 PSI
TIES:
#3 ◯ @ 12" O.C.

24"ø PIER SHAFT – TYPE "A"
10– #8 VERTICAL Fc' = 4000 PSI
TIES:
#3 ◯ @ 12" O.C.

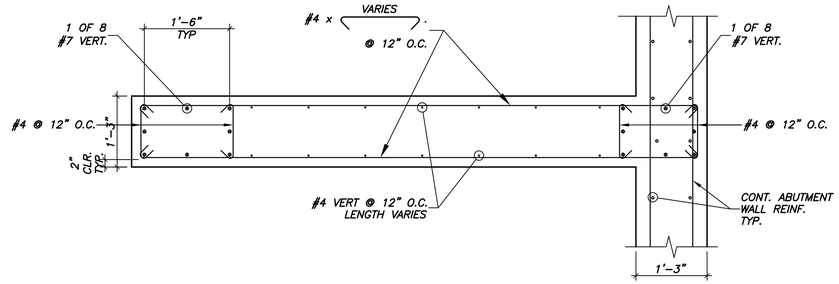
24"ø PIER SHAFT – TYPE "B"
8– #7 VERTICAL Fc' = 4000 PSI
TIES:
#3 ◯ @ 12" O.C.

18"ø PIER SHAFT – TYPICAL
6– #6 VERTICAL Fc' = 4000 PSI
TIES:
#3 ◯ @ 10" O.C.

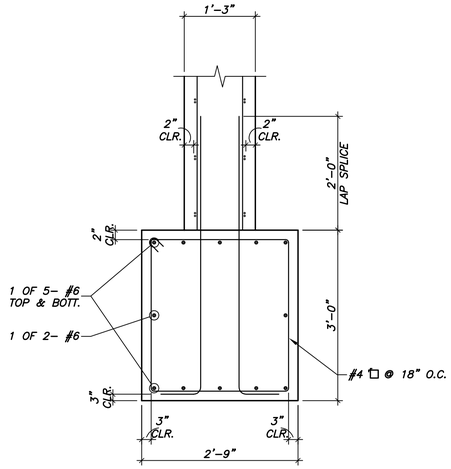
01 GROTTO PIER DETAIL
N.T.S.



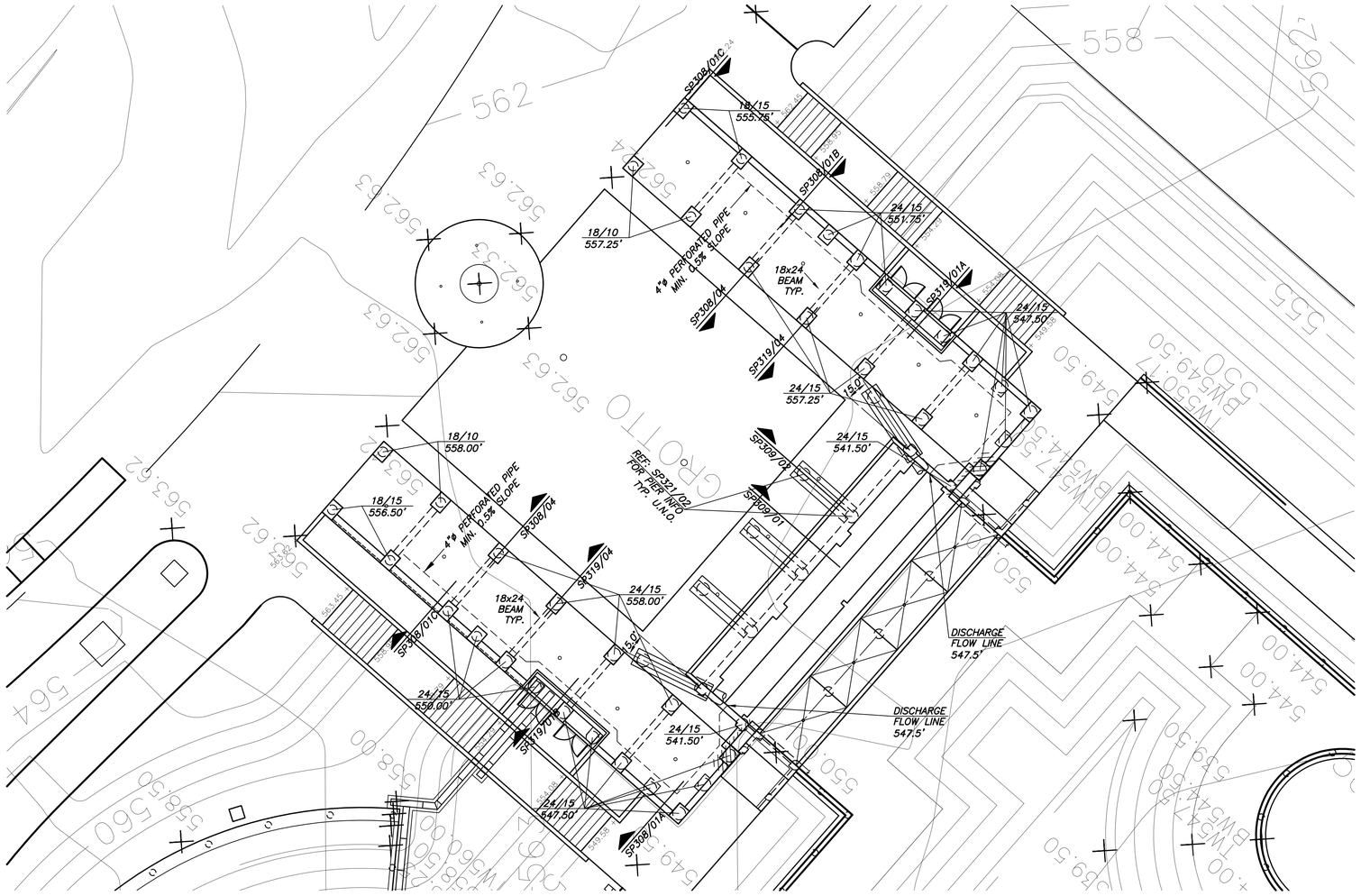
02 SECTION
¾"=1'–0"

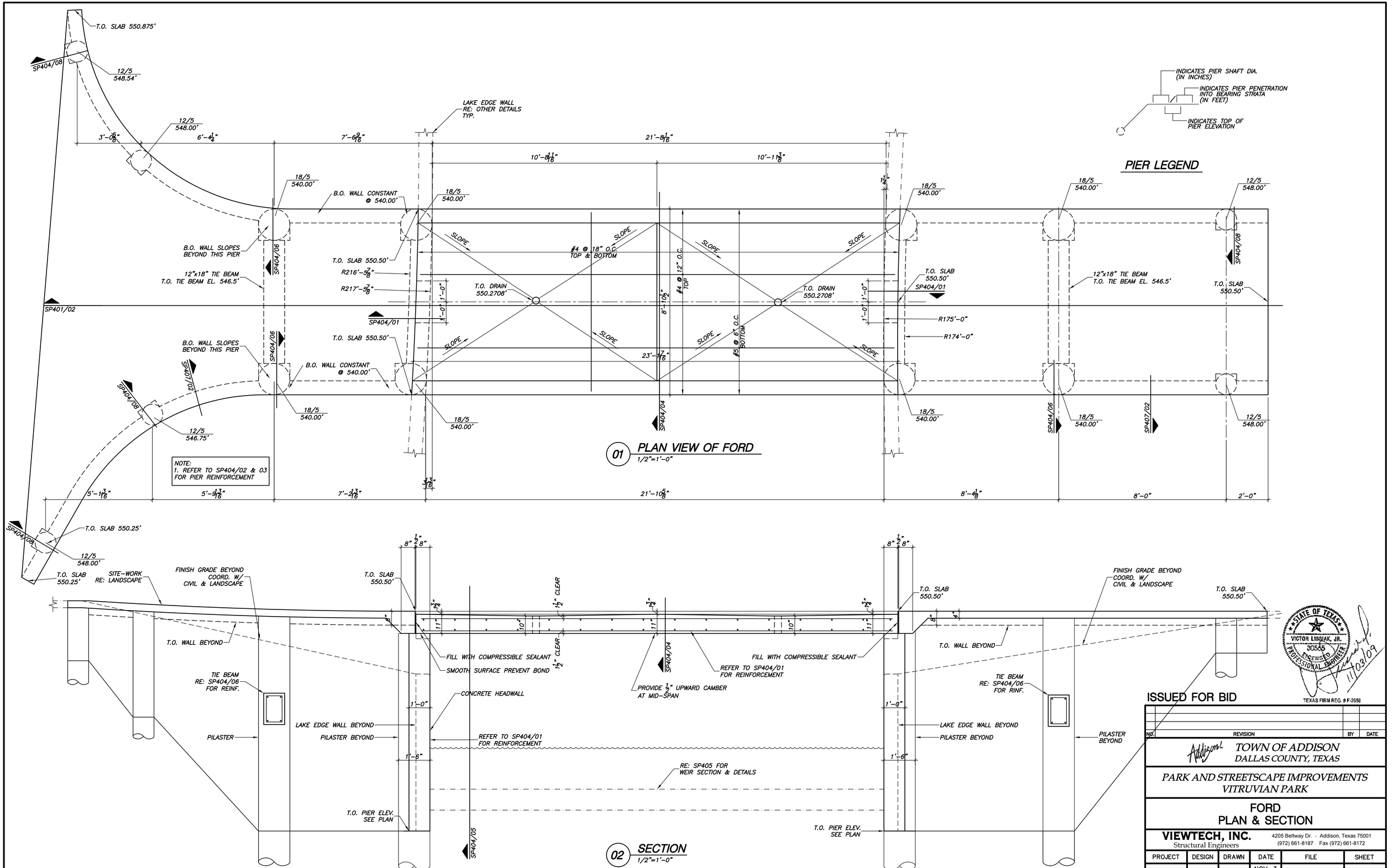


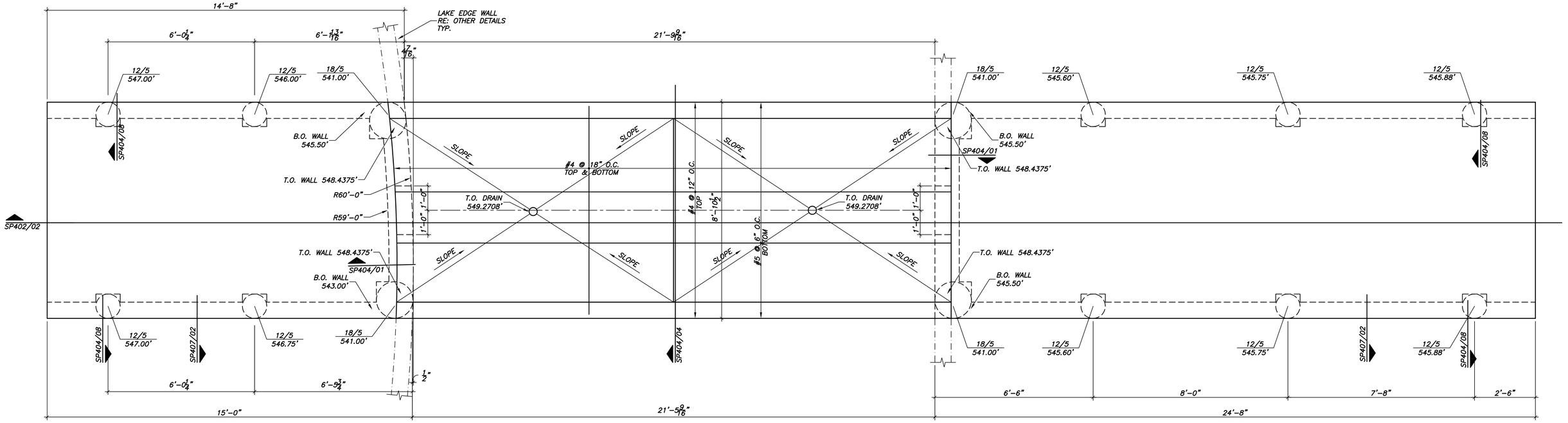
03 SECTION
¾"=1'–0"



04 SECTION
¾"=1'–0"


SP308/01C
18/15 555.75'
SP308/01B
24/15 551.75'
18/10 557.25'
4"ø PERFORATED PIPE MIN. 0.5% SLOPE
SP308/04
18x24 BEAM TYP.
SP321/01A
24/15 547.50'
SP319/04
24/15 557.25'
15.0'
18/10 558.00'
SP309/03
24/15 541.50'
REF: SP321/02 FOR PIER INFO. TYP. U.N.O.
SP309/01
18/15 556.50'
SP308/04
SP319/04
18x24 BEAM TYP.
24/15 558.00'
SP308/01C
15.0'
DISCHARGE FLOW LINE 547.5'
24/15 558.00'
SP319/01B
24/15 541.50'
DISCHARGE FLOW LINE 547.5'
24/15 547.50'
SP308/01A
562
558
562.63
562.32
562.04
562.62
563.45
563.62
563.62
563.62

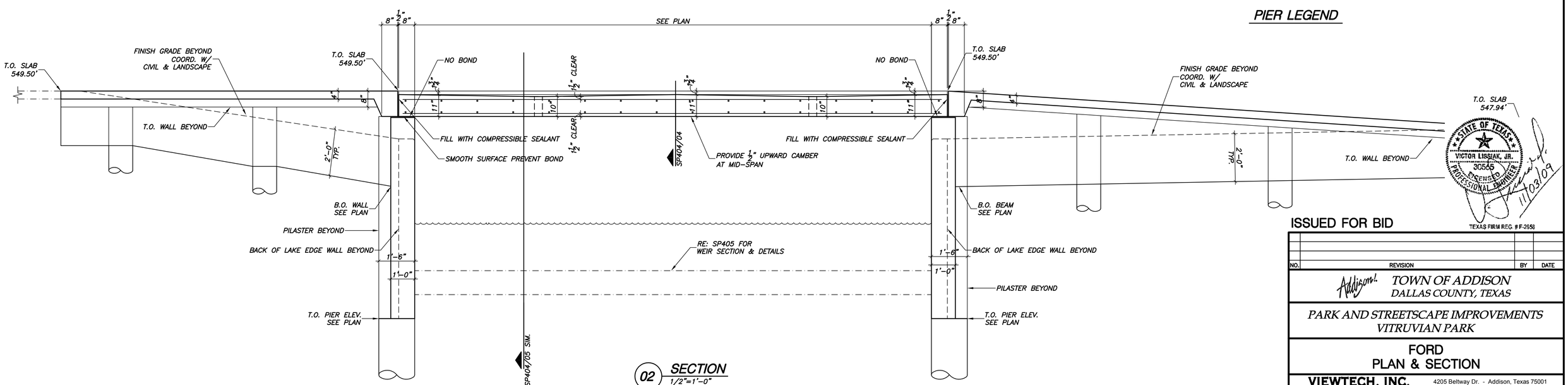

T.O. SLAB 550.875'
SP404/08
12/5
548.54'
12/5
548.00'
3'-0 5/8"
6'-4 1/4"
7'-6 9/16"
21'-8 1/16"
10'-8 11/16"
10'-11 3/8"
LAKE EDGE WALL
RE: OTHER DETAILS
TYP.
18/5
540.00'
B.O. WALL CONSTANT
@ 540.00'
B.O. WALL SLOPES
BEYOND THIS PIER
SP404/06
T.O. SLAB 550.50'
12"x18" TIE BEAM
T.O. TIE BEAM EL. 546.5'
R216'-5 7/8"
R217'-5 7/8"
SLOPE
#4 @ 18" O.C.
TOP & BOTTOM
#4 @ 12" O.C.
TOP
#5 @ 6" O.C.
BOTTOM
T.O. DRAIN
550.2708'
1'-0"
8'-10 1/2"
23'-11 7/16"
SP404/01
SP401/02
SP404/04
T.O. SLAB
550.50'
R175'-0"
R174'-0"
SP404/08
SP407/02
12/5
546.75'
NOTE:
1. REFER TO SP404/02 & 03
FOR PIER REINFORCEMENT
5'-1 3/16"
5'-4 3/16"
7'-4 3/16"
21'-10 5/8"
8'-4 1/8"
8'-0"
2'-0"
INDICATES PIER SHAFT DIA.
(IN INCHES)
INDICATES PIER PENETRATION
INTO BEARING STRATA
(IN FEET)
INDICATES TOP OF
PIER ELEVATION
PIER LEGEND
01
PLAN VIEW OF FORD
1/2"=1'-0"
T.O. SLAB 550.25'
12/5
548.00'
T.O. SLAB
550.25'
SITE-WORK
RE: LANDSCAPE
FINISH GRADE BEYOND
COORD. W/
CIVIL & LANDSCAPE
T.O. WALL BEYOND
TIE BEAM
RE: SP404/06
FOR REINF.
PILASTER
LAKE EDGE WALL BEYOND
PILASTER BEYOND
1'-0"
1'-6"
T.O. PIER ELEV.
SEE PLAN
SP404/05
8"
1 1/2" 8"
3/4"
11"
10"
1/2" CLEAR
FILL WITH COMPRESSIBLE SEALANT
SMOOTH SURFACE PREVENT BOND
CONCRETE HEADWALL
REFER TO SP404/01
FOR REINFORCEMENT
PROVIDE 1" UPWARD CAMBER
AT MID-SPAN
REFER TO SP404/01
FOR REINFORCEMENT
RE: SP405 FOR
WEIR SECTION & DETAILS
02
SECTION
1/2"=1'-0"
STATE OF TEXAS
VICTOR LISSIAK, JR.
90555
LICENSED
PROFESSIONAL ENGINEER
11/03/09
TEXAS FIRM REG. # F-2658
ISSUED FOR BID
NO.
REVISION
BY
DATE
TOWN OF ADDISON
DALLAS COUNTY, TEXAS
PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK
FORD
PLAN & SECTION
VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172
PROJECT
5029-01
DESIGN
VL
DRAWN
NERF
DATE
NOV. 3
2009
FILE
PW#2009-04
SHEET
SP401



01 PLAN VIEW OF FORD
1/2"=1'-0"

NOTE:
1. REFER TO SP404/02 & 03 FOR PIER REINFORCEMENT

PIER LEGEND



02 SECTION
1/2"=1'-0"

STATE OF TEXAS
VICTOR LISSIAK, JR.
30555
LICENSED
PROFESSIONAL ENGINEER
11/03/09

TEXAS FIRM REG. # F-2658

ISSUED FOR BID

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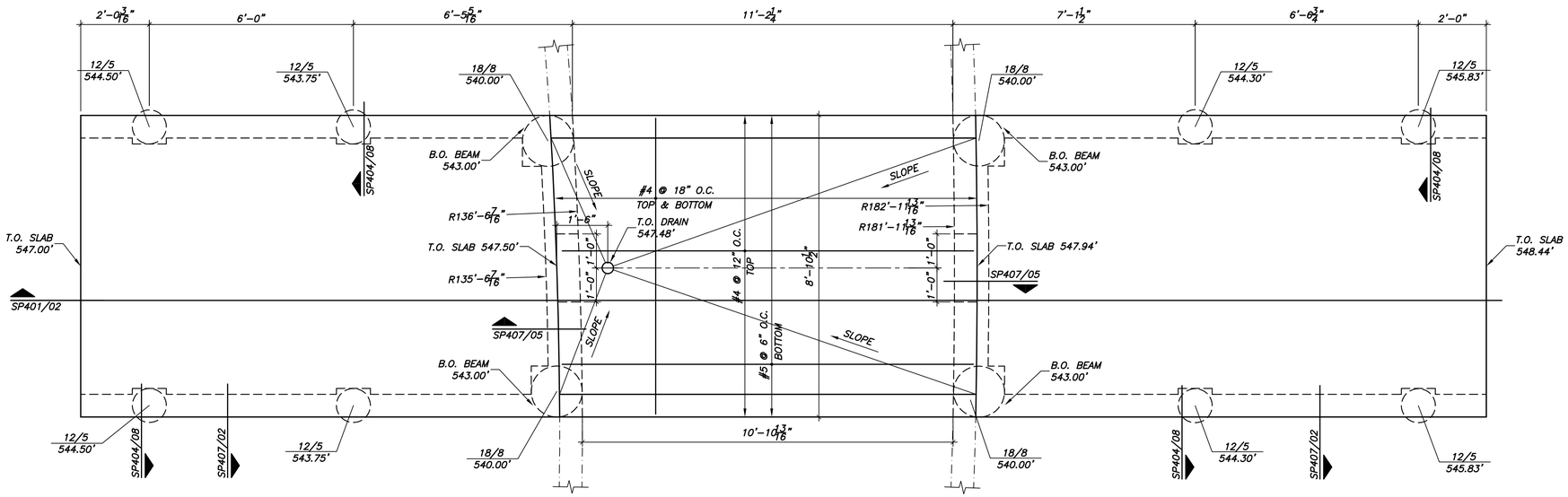
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

FORD
PLAN & SECTION

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
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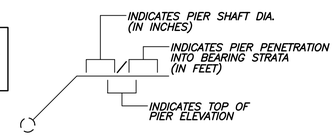
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5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP402



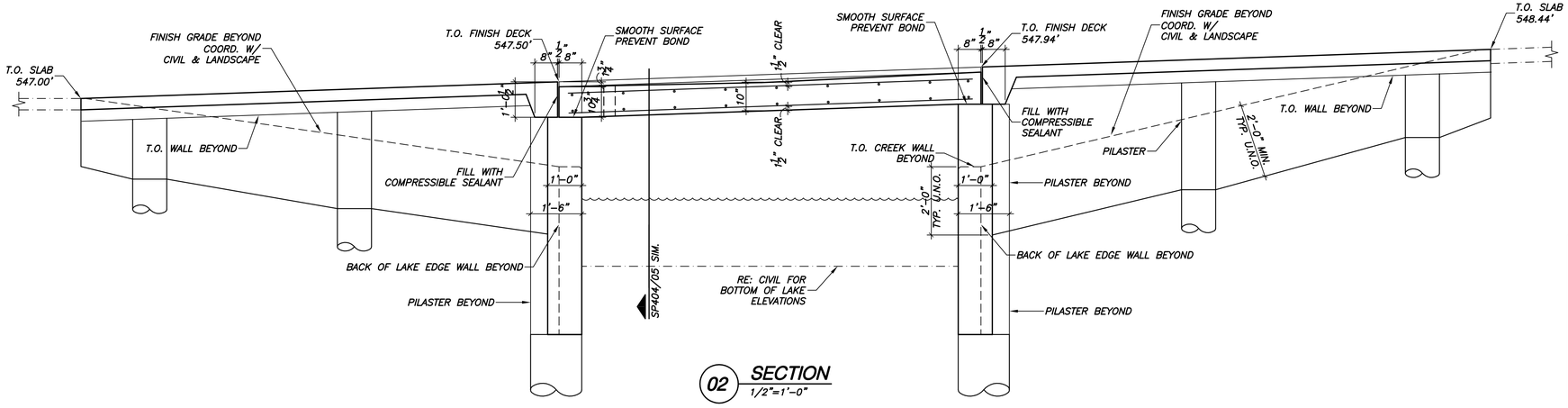
01 PLAN VIEW OF FORD

1/2"=1'-0"

NOTE:
1. REFER TO SP404/02 & 03 FOR PIER REINFORCEMENT



PIER LEGEND



02 SECTION

1/2"=1'-0"

STATE OF TEXAS
VICTOR LISSIAK, JR.
30565
LICENSED
PROFESSIONAL ENGINEER
11/03/09
TEXAS FIRM REG. # F-2658

ISSUED FOR BID

NO.	REVISION	BY	DATE

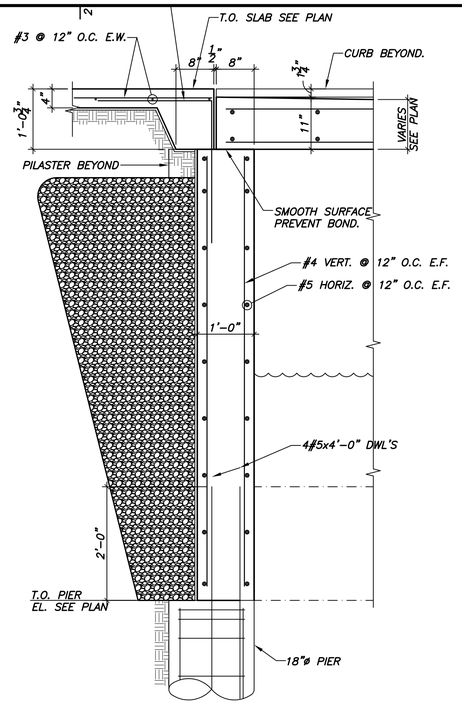
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

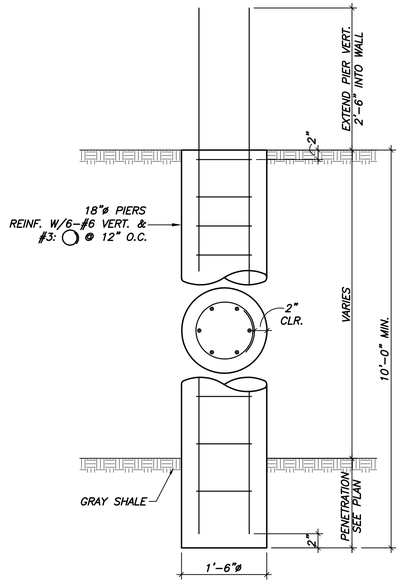
FORD
PLAN & SECTION

VIEWTECH, INC.
Structural Engineers
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(972) 661-8187 Fax (972) 661-8172

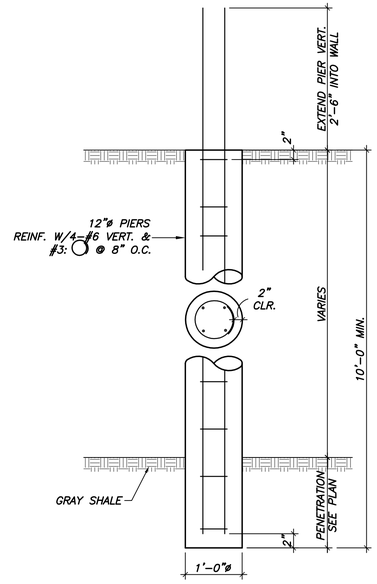
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5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP403



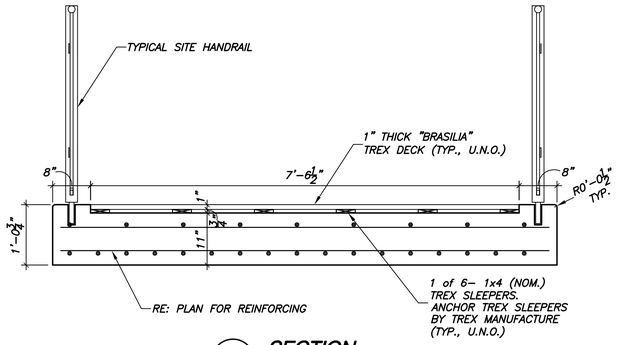
01 SECTION
3/4"=1'-0"



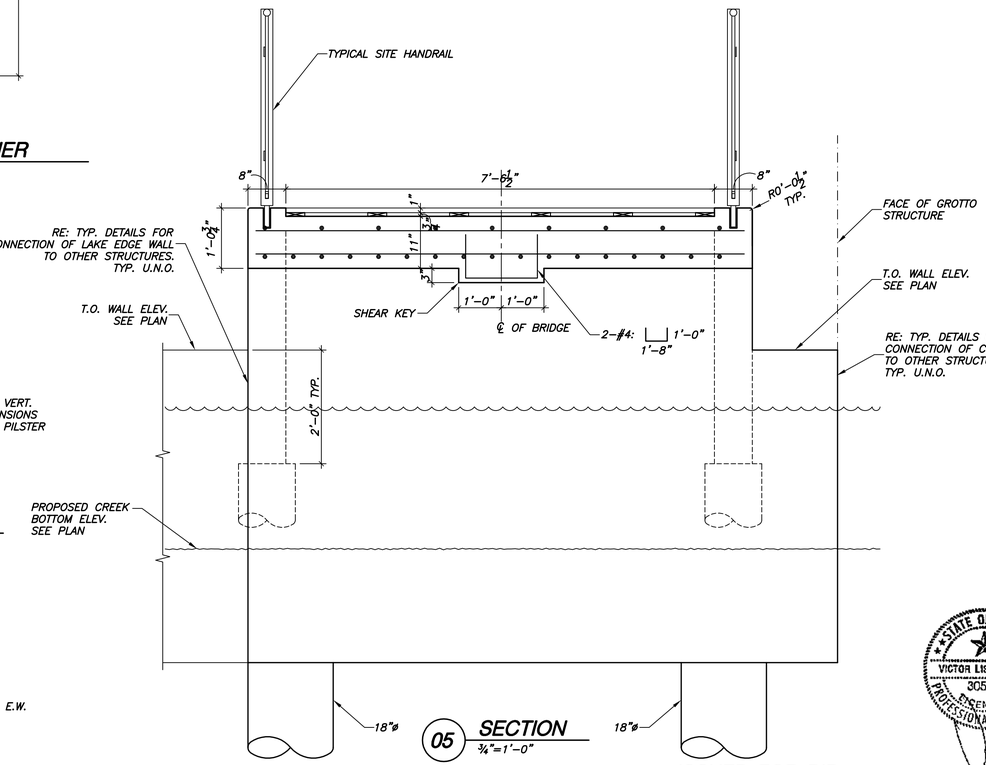
02 TYPICAL 18" DIAMETER PIER
3/4"=1'-0"



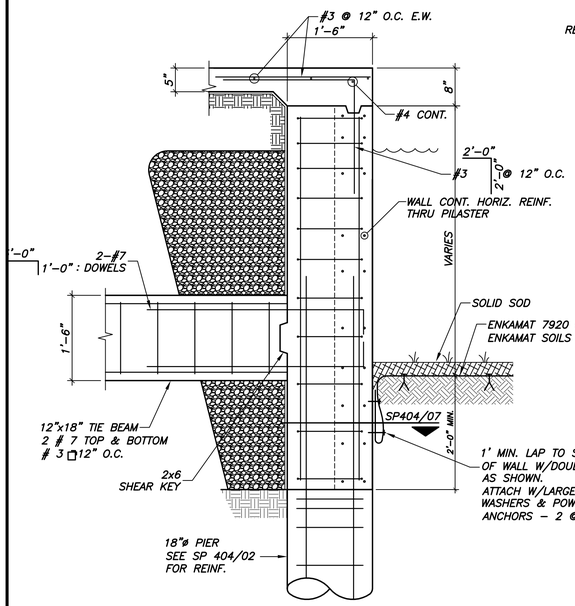
03 TYPICAL 12" DIAMETER PIER
3/4"=1'-0"



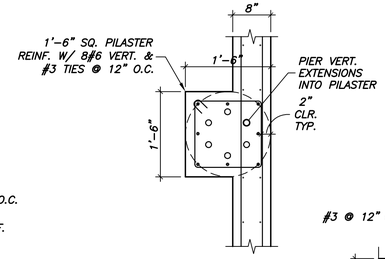
04 SECTION
3/4"=1'-0"



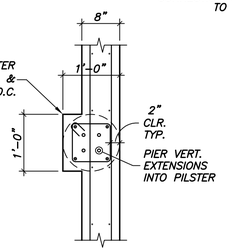
05 SECTION
3/4"=1'-0"



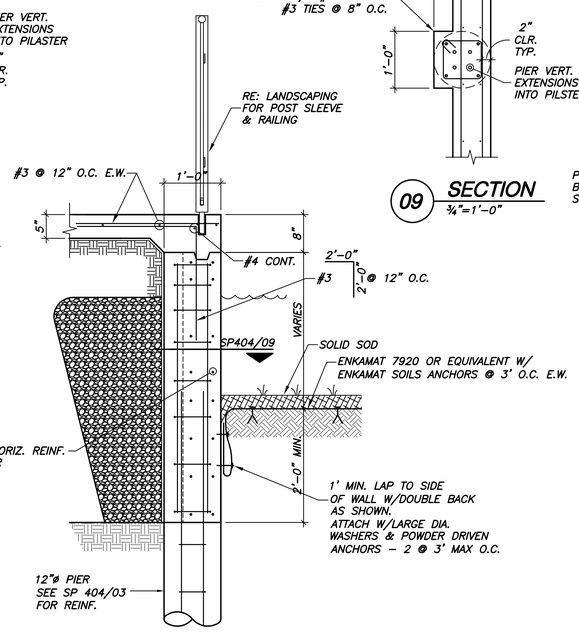
06 SECTION
3/4"=1'-0"



07 SECTION
3/4"=1'-0"



09 SECTION
3/4"=1'-0"



08 SECTION
3/4"=1'-0"

ISSUED FOR BID

STATE OF TEXAS
VICTOR LISSIAK, JR.
30535
LICENSED PROFESSIONAL ENGINEER
11/03/09
TEXAS FIRM REG. # F-2658

NO.	REVISION	BY	DATE

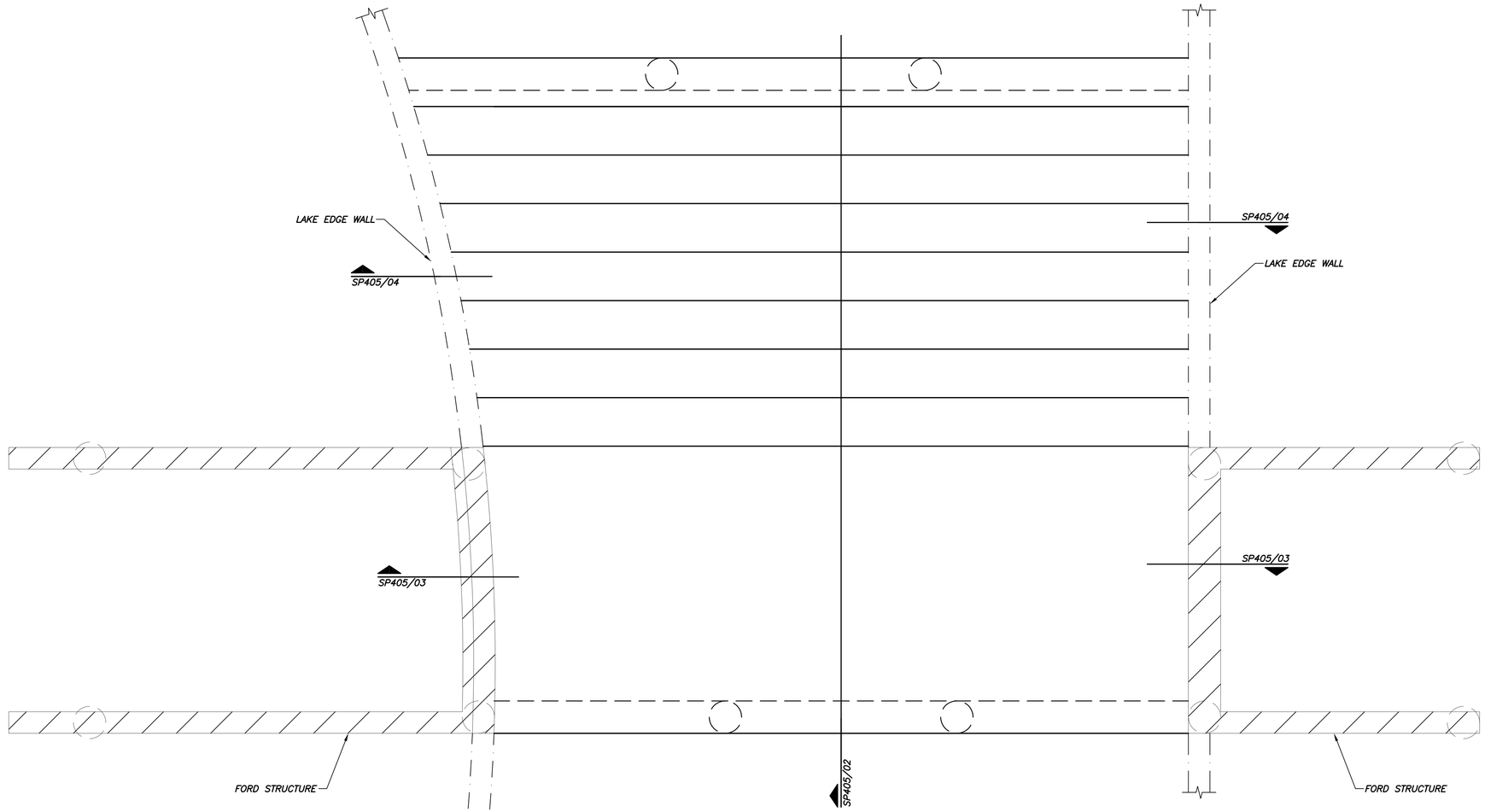
Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

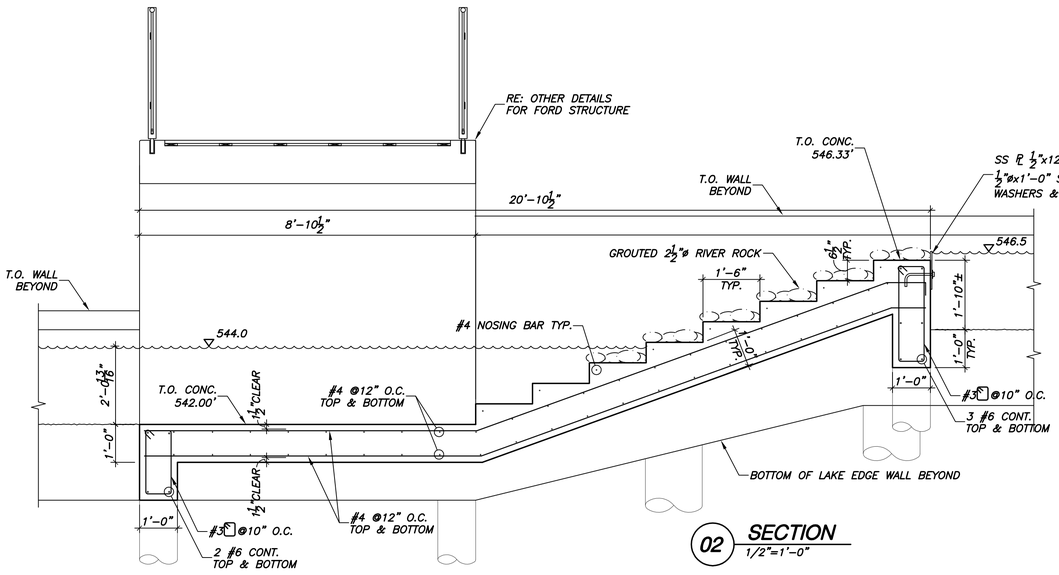
SECTIONS & DETAILS

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

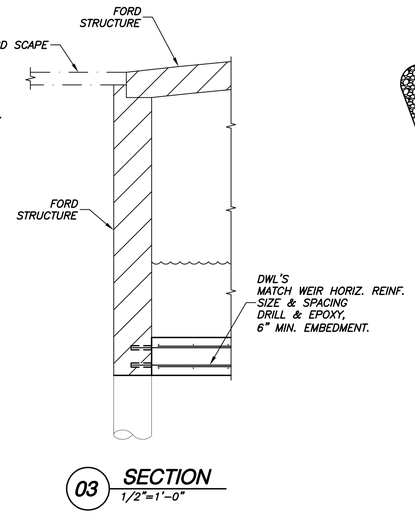
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP404



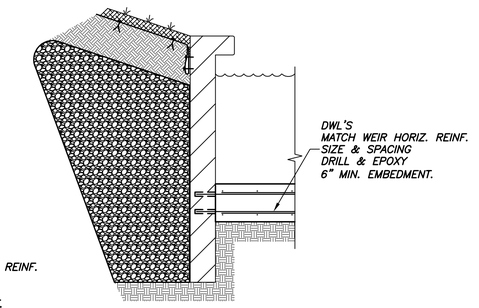
01 TYPICAL PLAN VIEW OF WEIR UNDER FORD
1/2"=1'-0"



02 SECTION
1/2"=1'-0"



03 SECTION
1/2"=1'-0"



04 SECTION
1/2"=1'-0"

STATE OF TEXAS
VICTOR LISSIAK, JR.
30535
LICENSED PROFESSIONAL ENGINEER
11/03/09
TEXAS FIRM REG. # F-2658

ISSUED FOR BID

NO.	REVISION	BY	DATE

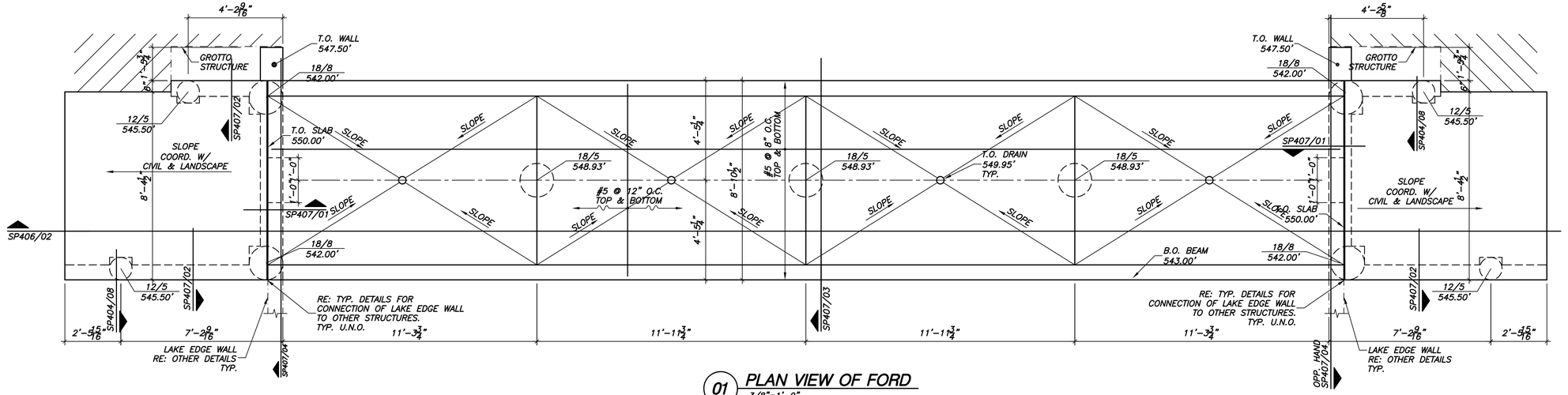
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

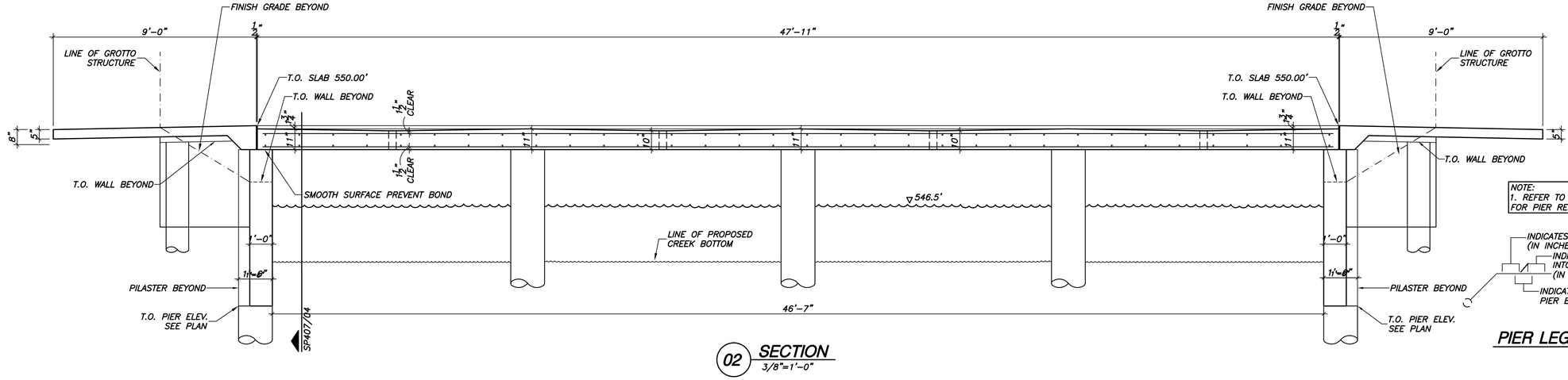
TYPICAL WEIR SECTIONS & DETAILS

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP405

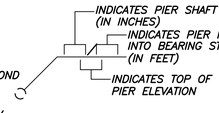


01 PLAN VIEW OF FORD
3/8"=1'-0"

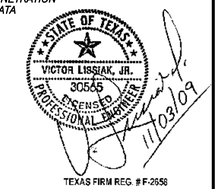


02 SECTION
3/8"=1'-0"

NOTE:
1. REFER TO SP404/02 & 03 FOR PIER REINFORCEMENT



PIER LEGEND



TEXAS FIRM REG. # F-2558

ISSUED FOR BID

NO.	REVISION	BY	DATE

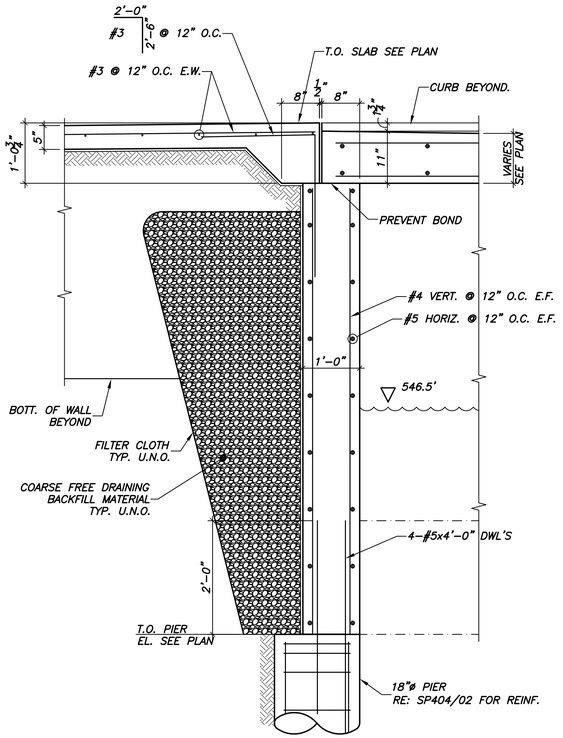
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

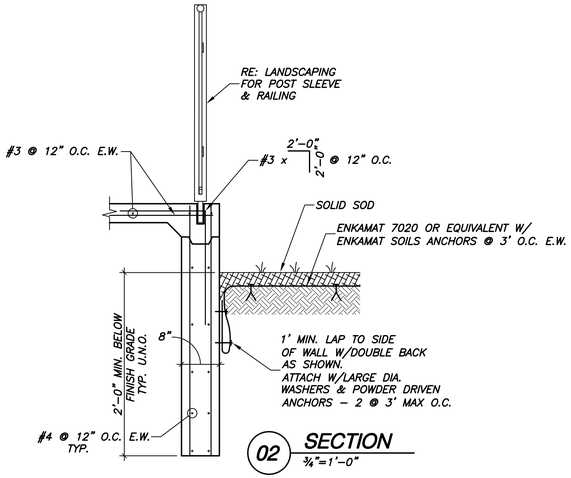
FORD
PLAN & SECTION

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

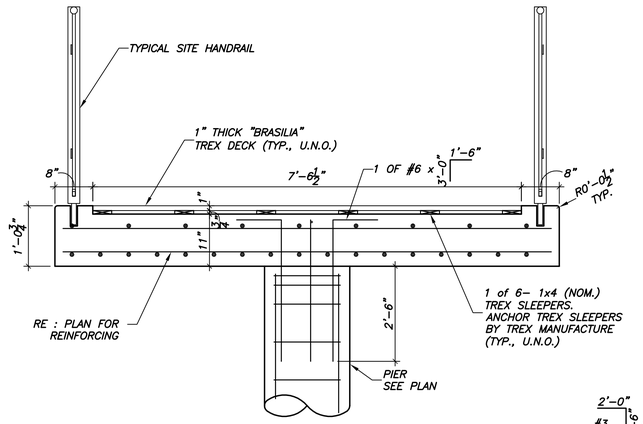
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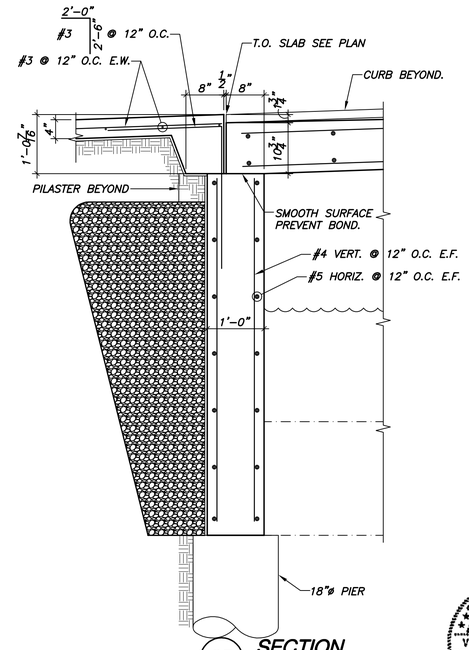
01 SECTION
3/4"=1'-0"



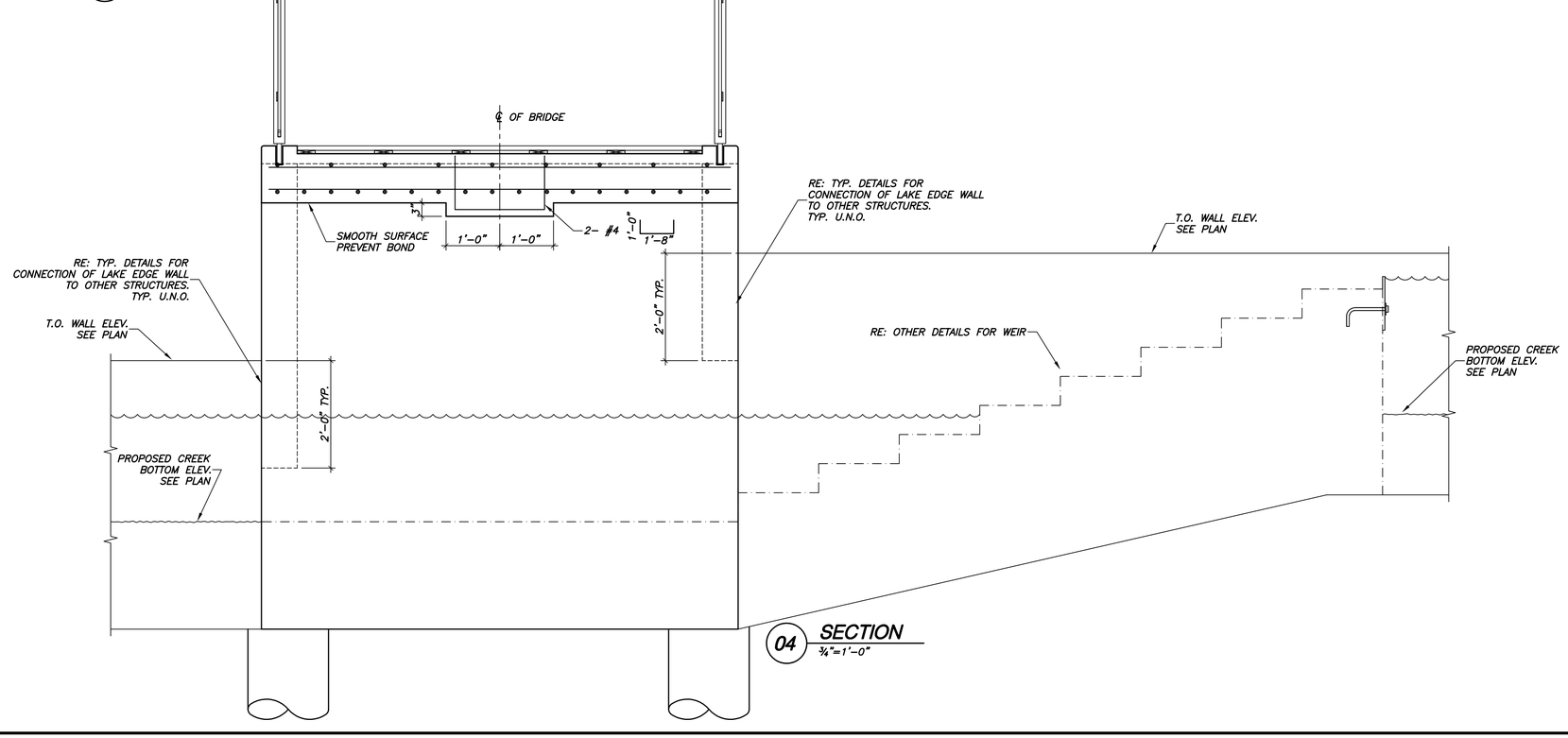
02 SECTION
3/4"=1'-0"



03 SECTION
3/4"=1'-0"



05 SECTION
3/4"=1'-0"



04 SECTION
3/4"=1'-0"

STATE OF TEXAS
VICTOR LISSIAK, JR.
30555
LICENSED PROFESSIONAL ENGINEER
11/03/09
TEXAS FIRM REG. # F-2558

ISSUED FOR BID

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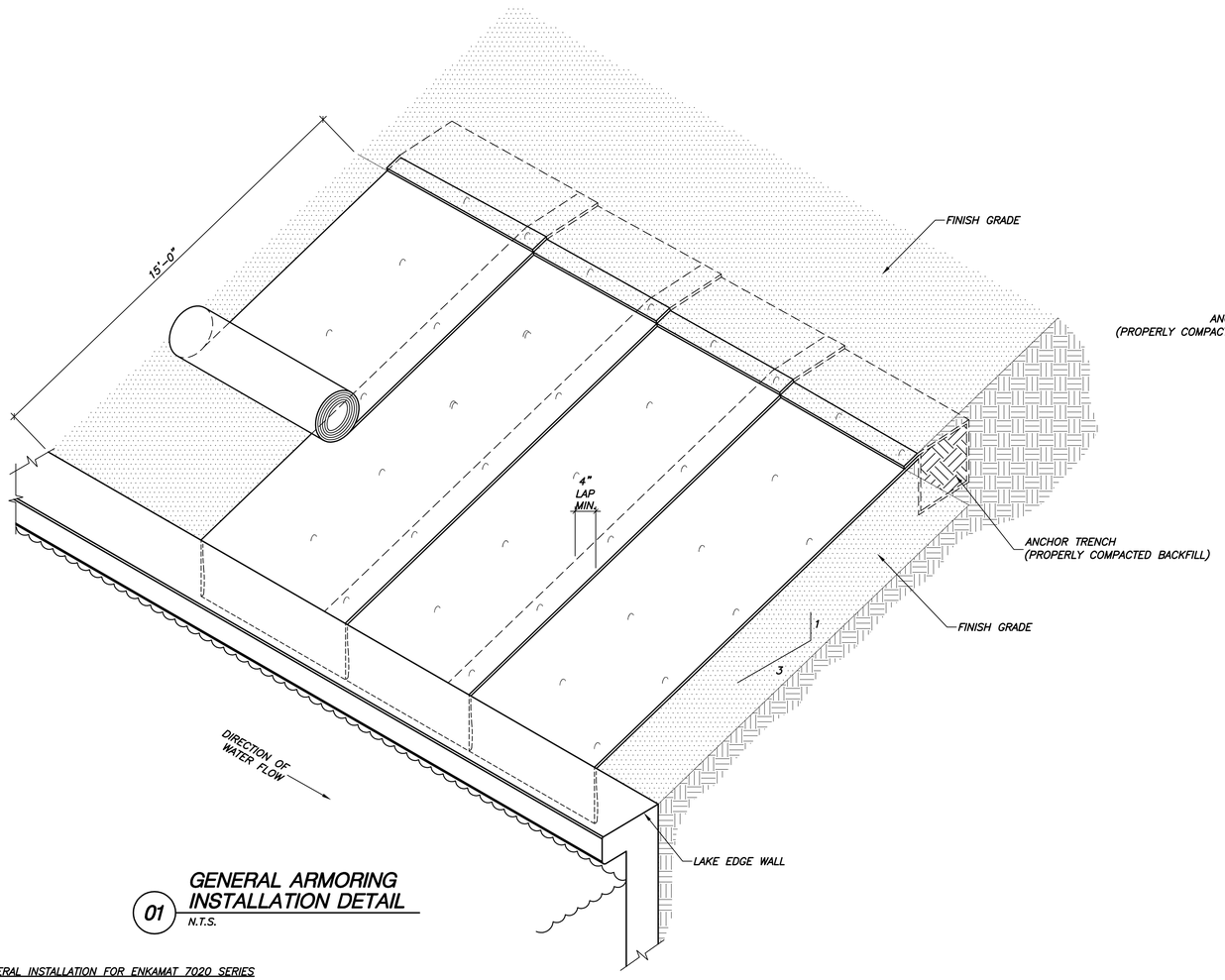
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

SECTIONS & DETAILS

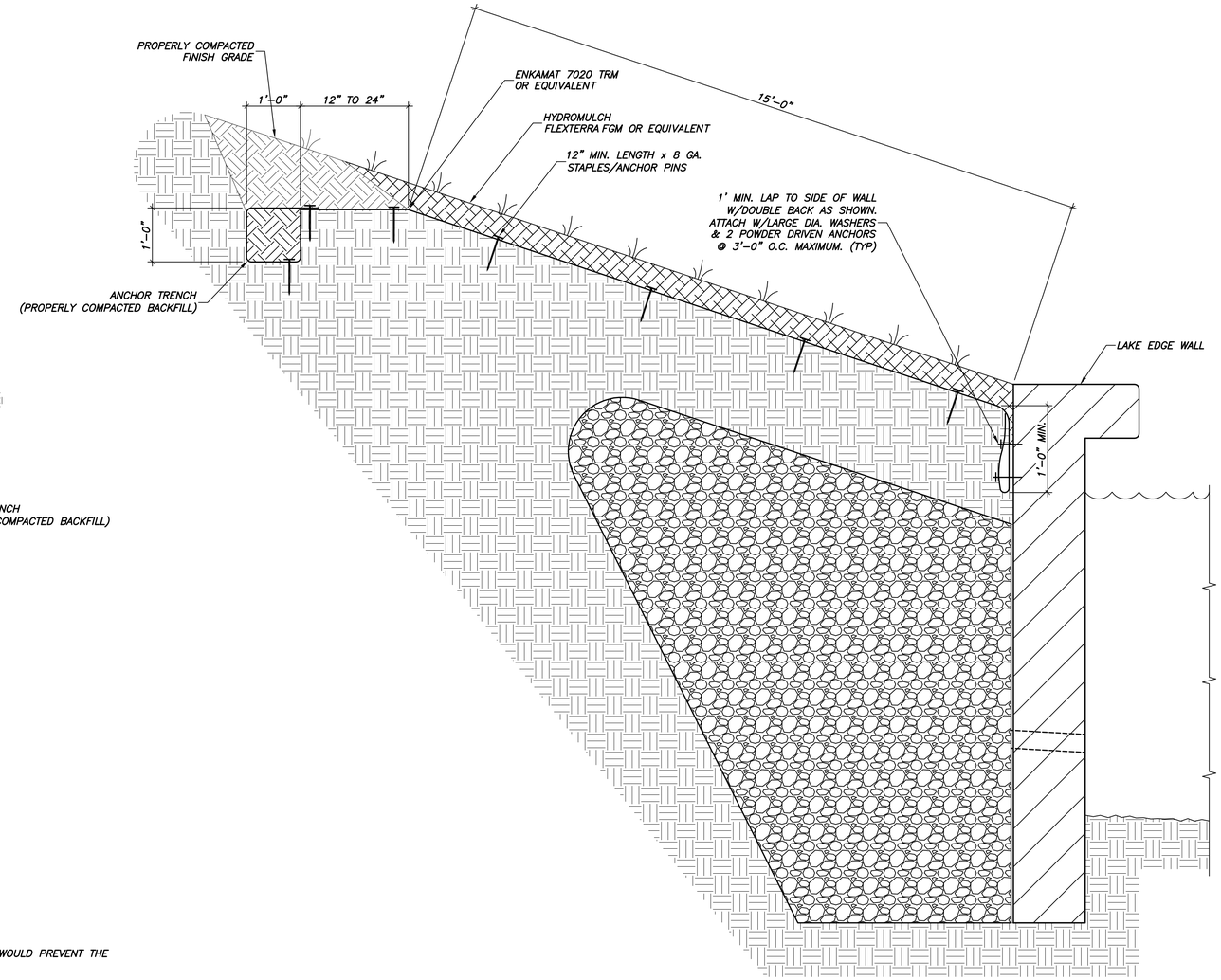
VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP407



01 GENERAL ARMORING INSTALLATION DETAIL

N.T.S.



02 GENERAL ARMORING INSTALLATION DETAIL

N.T.S.

GENERAL INSTALLATION FOR ENKAMAT 7020 SERIES

1. SITE PREPARATION: THE SITE MUST BE SHAPED TO THE DESIGN GRADE AND THEN FINE GRADED TO BE FREE OF SOIL CLODS, CLUMPS, ROCKS, OR VEHICLE IMPRINTS OF ANY SIGNIFICANT SIZE THAT WOULD PREVENT THE ENKAMAT FROM LYING FLUSH TO SURFACE CONTOURS.

2. ANCHOR TRENCH: ANCHOR TRENCHES ARE REQUIRED TO SECURELY FASTEN THE ENKAMAT TO THE GROUND SURFACE. IN CHANNEL APPLICATIONS, THE INITIAL ANCHOR TRENCH IS INSTALLED AT THE BEGINNING OF THE CHANNEL AND INTERMEDIATE CHECK SLOTS ARE SPACED AT APPROXIMATELY 25 FEET* INTERVALS DOWNSTREAM DEPENDING ON FLOW CONDITIONS AND WHETHER YOU SOIL FILL OR NOT. THE ENKAMAT IS INSTALLED INTO THE BOTTOM OF THE TRENCH AND FASTENED WITH PINS SPACED 3 FEET APART. THE ANCHOR TRENCH / INTERMEDIATE CHECK SLOTS ARE THEN BACKFILLED AND COMPACTED IN A MANNER AS TO NOT DAMAGE THE ENKAMAT. * IN LIEU OF EXCAVATED CHECK SLOTS, A DOUBLE ROW OF PINS [OR A NUMBER 1 OR 2 REBAR PINNED ACROSS THE MAT] MAY BE USED AT 25-FOOT INTERVALS.

3. ENKAMAT INSTALLATION: ROLL THE ENKAMAT DOWN THE SLOPE OR CHANNEL. THE OVERLAP BETWEEN ROLLS IS 3 TO 4 INCHES. THE SPLICE BETWEEN ROLLS IS BETWEEN 2 AND 3 FEET. SHINGLE THE ROLL IN THE DIRECTION OF WATER FLOW. INSTALL PINS DOWN THE CENTER OF EACH MAT (MAT IS 3.25 FEET WIDE) STAGGERING THEM BETWEEN THE OUTSIDE PINS WITH A SPACING INTERVAL OF 3 TO 5 FEET. PINS PATTERNS WILL VARY DEPENDING UPON APPLICATION, SOIL TYPE, SLOPE OR CHANNEL SLOPE, GEOMETRY, ETC. A RULE OF THUMB FOR ESTIMATING THE AMOUNT OF PINS REQUIRED FOR A PROJECT IS:

1:1 TO 2:1 SLOPES	3:1 AND LESSER SLOPES	HIGH FLOW CHANNEL	LOW FLOW CHANNEL
3-4 PINS PER SQ. YD.	2-3 PINS PER SQ. YD.	3-4 PINS PER SQ. YD.	2-3 PINS PER SQ. YD.

ALWAYS INSTALL TWO ROWS OF PINS SPACED 1.5 X 1.5 FEET APART AT ALL ROLL SPLICE LOCATIONS.

4. ANCHORING DEVICES: TYPICALLY 11-8 GAUGE OF A 6" X 1" X 6" METAL PINS ARE USED. WHEN SURFACE SOIL CONDITIONS ARE LOOSE, USE 8" X 1" X 8" OR 12" X 1.5" X 12" METAL PINS, 8" - 18" PINS WITH 1.5" DIAMETER WASHER, OR 12-30" J-SHAPE PINS (BENT REBAR) HAVING A ¼" DIAMETER. DRIVE PINS OR PINS FLUSH WITH THE GROUND SURFACE.

5. SOIL FILLING: THERE ARE TWO OPTIONS WHEN INSTALLING ENKAMAT-SOIL FILLING OR NON-SOIL FILLING. SOIL FILLING ENKAMAT ACCELERATES PERFORMANCE BECAUSE THE ENKAMAT, SOIL AND THE NEW VEGETATION INTERACT TOGETHER TO RESIST SHEAR FORCES WHEN WATER IS FLOWING THOUGH THE CHANNEL OR ON TOP OF A SLOPE. IF SOIL FILLING IS UTILIZED SPREAD ½ TO ¾ INCHES OF FINE SOIL INTO THE MAT TO COMPLETELY FILL IT. A TYPICAL CONDITION WHERE NON-SOIL FILLING IS USED WOULD BE TO COLLECT SEDIMENT WHEN WATER IS FLOWING THROUGH THE CHANNEL FROM AN UP-GRADIENT SOURCE.

6. SEEDING: FOR NON-SOIL FILLING APPLICATIONS, BROADCAST SEED OR HYDROSEED OVER THE INSTALLED ENKAMAT. MAKE SURE HYDROMULCH OCCURS AFTER SEEDING TO ENSURE THE SEED REACHES THE TOPSOIL. IF SOIL FILLING, SEED AFTER FILLING IS COMPLETED. YOU MAY ALSO SEED BEFORE AND AFTER SOIL FILLING TO CREATE A BETTER ESTABLISHED ROOT STRUCTURE AND INCREASE VEGETATION STRENGTH. CHECK WITH YOUR LOCAL SEEDING CONSULTANT TO VERIFY APPROPRIATE SEED AND FERTILIZER MIXTURE.

7. SOD INSTALLATION: IF COVERING ENKAMAT WITH SOD, SOIL FILLING IS REQUIRED. PLACE SOD IN THE DIRECTION OF WATER FLOW. PERIODICALLY INSTALL A ROW OR TWO PERPENDICULAR TO THE FLOW TO REDUCE THE POSSIBILITY OF WATER FLOWING ALONG THE SEAMS OF THE SOD. IN MOST CASES, YOU SHOULD PIN THE SOD DOWN TO PREVENT MOVEMENT.

8. GREENARMOR™ SYSTEM: HYDRAULICALLY FILL THE TRM WITH 0.5 INCHES OF FGM™, APPLIED WITH HOSE AT CLOSE RANGE. OPTIMUM APPLICATION RATE IS 3,500 LBS/ACRE OR TO THE DEPTH OF WHERE THE TIPS OF TRM ARE STILL EXPOSED. STRICTLY COMPLY WITH FGM MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. FOR OPTIMUM FGM PUMPING AND APPLICATION PERFORMANCE, USE APPROVED MECHANICALLY AGITATED, HYDRAULIC SEEDING/MULCHING MACHINES, HOSE OF SUFFICIENT LENGTH TOREACH THE TRM, USE OF A 50 DEGREE TIP/NOZZLE IS HIGHLY RECOMMENDED. APPLY FGM FROM HOSE POSITIONED OVER SHOULDER WITH NOZZLE APPROXIMATELY AT CHEST LEVEL (48-60"), POINTING STRAIGHT DOWN TO ACHIEVE OPTIMUM TRM INFILL. FOR OPTI-MUM HYDRAULIC PERFORMANCE AND VEGETATIVE ESTABLISHMENT, BE CAREFUL NOT TO OVERFILL THE TRM. THE TIPS OF THE TRM SHALL BE SLIGHTLY EXPOSED. FOR TECHNICAL ASSISTANCE PLEASE CONTACT PROFILE PRODUCTS AT 750 LAKE COOK ROAD, SUITE 440 BUFFALO GROVE, IL 60089 TOLL FREE: 866-325-6262; WEB:WWW.PROFILEPRODUCTS.COM

STATE OF TEXAS
VICTOR LISSIAK, JR.
30555
LICENSED PROFESSIONAL ENGINEER
11/03/09
TEXAS FIRM REG. # F-2658

ISSUED FOR BID

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

TYPICAL ARMORING DETAILS

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SP500

GENERAL INSTALLATION NOTES

NOTE
WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED MEASUREMENTS.

NOTE
CONDUITS ENTERING FOUNTAINS SYSTEM CONTROL PANELS SHALL BE INSTALLED INTO BOTTOM OF ENCLOSURE IN THE EVENT WATER ENTERS CONDUIT AND FLOWS INTO PANEL THROUGH CONDUIT OPENINGS. DO NOT INSTALL ANY WATER LINES ABOVE THE CONTROL PANEL. A DRAIN OPENING MUST BE MADE IN BOTTOM OF ENCLOSURE PAN TO ALLOW DRAINAGE OF WATER FROM ENCLOSURE IN THE EVENT OF WATER INGRESS.

NOTICE TO OWNER:

THE FOUNTAIN DESIGNER SHALL NOT BE RESPONSIBLE IN ANY WAY WHATSOEVER FOR WATER QUALITY AND WATER CHEMISTRY ISSUES WHICH MAY RESULT IN HARDWATER SCALING, HIGH IRON CONTENT, STAINING OR ANY OTHER CHEMICAL ACTION OR REACTION TO EQUIPMENT OR STRUCTURES THAT MAY OCCUR AS A RESULT OF LOCAL WATER CHEMISTRY ISSUES.

OWNER SHALL BE SOLELY RESPONSIBLE FOR PERFORMING ANY AND ALL SCIENTIFIC TESTING DEEMED NECESSARY TO ASCERTAIN FOUNTAIN WATER QUALITY AND CHEMISTRY ISSUES PRIOR TO CONSTRUCTING THE FOUNTAIN, AND FOR SELECTING AND PROVIDING ALL WATER TREATMENT EQUIPMENT AND/OR CHEMICAL ADDITIVES WHICH MAY BE REQUIRED TO RENDER THE WATER SUITABLE FOR THE FOUNTAIN APPLICATION.

Free Chlorine: 1.0-3.0 ppm
pH: 7.4-7.6
Total Alkalinity: 70-100 ppm
Calcium (Total Hardness): 150 ppm

THE FOUNTAIN DESIGNER SHALL NOT BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, DETERIORATION OR ANY OTHER ADVERSE EFFECTS TO SURROUNDING SOFT OR HARDSCAPE, FOUNTAIN STRUCTURE, PIPING OR ANY EQUIPMENT AS A RESULT OF WATER QUALITY AND CHEMISTRY ISSUES AND ASSUMES THAT PROPER WATER ANALYSIS AND APPROPRIATE TREATMENT HAS BEEN IMPLEMENTED PRIOR TO OBTAINING AND INSTALLING FOUNTAIN EQUIPMENT.

DANGER

FATAL ELECTRICAL SHOCK CAN OCCUR IF FOUNTAIN ELECTRICAL EQUIPMENT IS NOT INSTALLED PROPERLY. THIS EQUIPMENT SHOULD ONLY BE INSTALLED BY QUALIFIED ELECTRICIANS WITH PROPER GROUNDING AND GROUND FAULT INTERRUPTION CIRCUIT BREAKERS IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, SECTION 680, AND ALL OTHER APPLICABLE SECTIONS OF THE CODE.

DANGER

FATAL SUCTION ENTRAPMENT CAN OCCUR IF FOUNTAIN MECHANICAL EQUIPMENT & PIPING IS NOT INSTALLED CORRECTLY AS SHOWN. ANTI-VORTEX PLATES MUST BE SECURELY FASTENED TO SUMPS AND/OR POOL FLOOR USING SUITABLE VANDAL RESISTANT SAFETY FASTENERS AND ANCHORS AT ALL TIMES DURING OPERATION OF FOUNTAIN SYSTEM.

NOTE: CONTRACTOR/INSTALLER IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL DIMENSIONS AT JOBSITE. THE FOUNTAIN DESIGNER IS NOT RESPONSIBLE FOR CONSTRUCTION/INSTALLATION MEANS, METHODS, TECHNIQUES, SEQUENCES, STEPS OR PROCEDURES, OR FOR ANY SAFETY REQUIREMENTS, CODES, PRECAUTIONS, RULES, REGULATIONS OR PROGRAMS PERTAINING TO THE CONSTRUCTION PROJECT, INCLUDING BUT NOT LIMITED TO OSHA CONFINED SPACE REQUIREMENTS FOR PUMP ROOMS, VAULTS OR PITS.

NATURAL DISCOLORATION OF METALS

DISCOLORATION OF BRASS OR COPPER FITTINGS AND COMPONENTS IN FOUNTAINS IS A NATURAL OCCURRENCE AND IS NOT CONSIDERED BY THE COMPANY TO BE A PRODUCT DEFECT OR WARRANTY ITEM. WATER CHEMISTRY MAY TURN THE METAL GREEN OR BROWN IN APPEARANCE. REMOVAL OF THE DISCOLORATION CAN BE ACCOMPLISHED USING A SOFT WIRE WHEEL BRUSH AND BRASS OR COPPER CLEANER IF SO DESIRED. TO MINIMIZE THIS NATURAL OCCURRENCE, THE MATERIAL CAN BE TREATED BY OWNER WITH A CLEAR EPOXY SPRAY COATING OR SEALANT.('PLASTI-KOTE' CLEAR LACQUER BY VALSPAR OR SIMILAR) PRIOR TO BEING INSTALLED INTO THE FOUNTAIN BASIN.

NOTICE TO INSTALLER

ALL FOUNTAIN SYSTEM EQUIPMENT & COMPONENTS FURNISHED BY THE COMPONENT MANUFACTURER IS DESIGNED AND MANUFACTURED FOR USE IN FRESH WATER APPLICATIONS ONLY. DO NOT INSTALL OR OPERATE ANY EQUIPMENT IN SALT, BRINE OR BRACKISH WATER OR WARRANTY IS VOID.

ELECTRICAL NOTES (RESPONSIBILITY OF INSTALLER)

1. THE INSTALLATION OF ELECTRICAL EQUIPMENT AND WIRING IN WATER CAN PRODUCE EXTREME HAZARDS. IT IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO CONSULT AND COMPLY WITH ALL ELECTRICAL CODES AND SAFETY REGULATIONS PRIOR TO INSTALLATION OF ELECTRICAL EQUIPMENT. LOCAL CODES TAKE PRECEDENCE OVER THE GENERAL NOTES WHERE DISCREPANCIES OF CONFLICTS EXIST.
2. IT IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO VERIFY ALL FIELD DIMENSIONS CRITICAL TO FOUNTAIN EQUIPMENT INSTALLATION AND PERFORMANCE AND REPORT ANY DISCREPANCIES, IN WRITING, TO THE FOUNTAIN DESIGNER AND THE ARCHITECT/ENGINEER.
3. IT IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO INSURE THAT ALL ELECTRICAL EQUIPMENT IS INSTALLED AND WIRED BY A QUALIFIED, LICENSED ELECTRICIAN EXPERIENCED IN FOUNTAIN SYSTEM WIRING. THE FOUNTAIN DESIGNER ASSUMES NO RESPONSIBILITY OR LIABILITY WHATSOEVER FOR INSTALLATIONS NOT CARRIED OUT BY A QUALIFIED, LICENSED ELECTRICIAN IN ACCORDANCE WITH OUR APPROVED SHOP DRAWINGS, AND ALL PROVISIONS OF THE LATEST EDITION OF NEC IN GENERAL, ARTICLE 680 SPECIFICALLY, AND LOCAL SAFETY CODES AND REGULATIONS. ALL FOUNTAIN ELECTRICAL CONTROL PANELS INCLUDE A PANEL DISCONNECT AND GFCI'S WHEN AND WHERE REQUIRED, WHEN FURNISHED.
4. A CLASS 'A' GROUND FAULT CIRCUIT INTERRUPTER (GFCI) MUST BE INSTALLED IN EACH BRANCH CIRCUIT SUPPLYING FOUNTAIN EQUIPMENT. EQUIPMENT OPERATING AT 15 VOLTS OR LESS MUST BE PROTECTED BY SUITABLE TRANSFORMER U.L. LISTED AND MARKED FOR THE APPLICATION.
5. SUBMERSIBLE LIGHTING FIXTURES MUST BE INSTALLED FOR OPERATION AT 150 VOLTS OR LESS BETWEEN CONDUCTORS. SUBMERSIBLE PUMPS MUST OPERATE AT 300 VOLTS OR LESS BETWEEN CONDUCTORS.
6. SUBMERSIBLE LIGHTING FIXTURES MUST BE INSTALLED WITH THE TOP OF THE FIXTURE LENS A MINIMUM OF 2" BELOW THE NORMAL OPERATING WATER LEVEL AND MUST HAVE THE LENS ADEQUATELY GUARDED TO PREVENT CONTACT BY ANY PERSON.
7. ALL ELECTRICAL EQUIPMENT WHICH DEPENDS ON SUBMERSION FOR SAFE OPERATION MUST BE PROTECTED AGAINST OVERHEATING BY AN INDEPENDENT LOW WATER CUTOFF DEVICE IF THE WATER LEVEL DROPS BELOW NORMAL OPERATING LEVEL.
8. MAXIMUM LENGTH OF EXPOSED CORD IN THE FOUNTAIN IS LIMITED TO 9 FEET. CORDS EXTENDING BEYOND FOUNTAIN PERIMETER MUST BE ENCLOSED IN APPROVED WIRING ENCLOSURES.
9. ALL SUBMERSIBLE LIGHTS AND PUMPS MUST HAVE SUFFICIENT CORD LENGTH TO ALLOW REMOVAL FROM THE WATER FOR RELAMPING AND NORMAL MAINTENANCE. FIXTURES CANNOT BE PERMANENTLY IMBEDDED IN THE FOUNTAIN STRUCTURE SO THAT THE WATER LEVEL MUST BE REDUCED OR THE FOUNTAIN DRAINED FOR RELAMPING, MAINTENANCE, OR INSPECTION.
10. SUBMERSIBLE EQUIPMENT MUST BE INHERENTLY STABLE OR BE SECURELY FASTENED IN PLACE WITH NON-CORROSIVE FASTENERS SUITABLE FOR THE PURPOSE.
11. UNDERWATER JUNCTION BOXES MUST BE FILLED WITH AN APPROVED RE-ENTERABLE ELECTRICAL POTTING COMPOUND (WAX OR PARAFFIN IS NOT ACCEPTABLE) PRIOR TO FILLING POOL AND AFTER ALL CIRCUITS HAVE BEEN CHECKED TO PREVENT THE ENTRY OF MOISTURE AND BE FIRMLY ATTACHED TO SUPPORTS OR DIRECTLY TO THE FOUNTAIN SURFACE AND BONDED AS REQUIRED. ALL CONDUIT STUBBED UP THROUGH POOL FLOOR MUST BE RED BRASS PIPE, "EVERDUR", STAINLESS STEEL OR HARD COPPER. PVC IS NOT ACCEPTABLE AS A CONDUIT SUPPORT STUB FOR SUBMERSIBLE JUNCTION BOXES. ALL CONDUIT ENTRIES MUST BE COMPLETELY SEALED PRIOR TO POTTING TO PREVENT COMPOUND FROM ENTERING CONDUIT SYSTEM.
12. ALL ELECTRICAL CONDUIT AND CONDUIT FITTINGS BETWEEN SUBMERSIBLE LIGHT FIXTURE NICHES, JUNCTION BOXES AND CONTROL PANELS SHALL BE U.L. LISTED RIGID, NONMETALLIC, PVC NEMA TC-2 MAX. 90°C, SUNLIGHT RESISTANT FOR ABOVE AND BELOW GROUND USE. ALL CONDUITS SHALL BE PROTECTED AT ALL TIMES FROM POSSIBLE WATER INGRESS. USE ONLY APPROVED PRIMER AND PVC GLUE SUITABLE FOR JOINING ALL PVC CONDUITS AND FITTINGS PER MANUFACTURERS INSTRUCTIONS.
13. ALL UNDERWATER JUNCTION BOXES MUST BE EQUIPPED WITH THREADED CONDUIT ENTRIES AND COMPRESSION TYPE CORD CONNECTORS FOR CORD ENTRY. STRAIN RELIEF CONNECTORS SERVING NICHE-MOUNTED UNDERWATER LIGHTS SHALL BE CAPABLE OF SEALING BOTH THE FIXTURE CORD AND AN AWG #8 INSULATED BONDING WIRE WHICH MAY BE REQUIRED BY SOME LOCAL CODES.
14. ALL ELECTRICAL EQUIPMENT MUST BE PROPERLY BONDED AND GROUNDED FOR SAFETY. PER THE LATEST CODE REQUIREMENTS.
15. USE GOOD QUALITY THREAD SEALANT OR PVC GLUE AS REQUIRED FOR CONDUIT CONNECTIONS TO ELIMINATE ALL LEAKS. ALL CONDUIT SHALL BE SEALED TO PREVENT ENTRY OF MOISTURE AND TO PREVENT WATER FROM DRAINING INTO THE FOUNTAIN CONTROL PANEL.
16. ALL CONDUIT CONNECTIONS BETWEEN DISSIMILAR METALS MUST BE MADE WITH DIELECTRIC FITTINGS, AND SEALED WITH DIELECTRIC THREAD COMPOUND TO PREVENT GALVANIC DEGRADATION.
17. PULL CORRECT QUANTITY AND SIZE CONDUCTORS, WIRED WITH SEPARATE GROUND, THROUGH CONDUIT INTO JUNCTION BOX. MAKE ALL SPLICES AND CONNECTIONS TIGHT AND WELL INSULATED. CONNECT GROUND WIRE TO GROUND LUG IN JUNCTION BOX, OR OTHER SUITABLE GROUNDING LOCATION.

18 INSERT EACH SUBMERSIBLE CORD THROUGH THE BRASS CORD SEALS PROVIDED ON THE JUNCTION BOX AND TIGHTEN COMPLETELY.

19. DO NOT OPERATE SUBMERSIBLE LIGHTS OR PUMPS MORE THAT TEN SECONDS UNLESS COMPLETELY SUBMERGED OR DAMAGE WILL RESULT AND WARRANTY WILL BE VOID.

NOTE: ANY & ALL COSTS ASSOCIATED WITH THE ABOVE ARE THE RESPONSIBILITY OF INSTALLER.

NOTE: GENERAL CONTRACTOR TO BRING SANITARY SEWER, CLEAN WATER SUPPLY, TO WITHIN 5 FEET OF THE VAULT. ELECTRICAL CONTRACTOR TO CONNECT MAIN POWER TO CONTROL PANEL IN VAULT.

PIPING NOTES (RESPONSIBILITY OF INSTALLER)

1. IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL FIELD DIMENSIONS CRITICAL TO FOUNTAIN EQUIPMENT INSTALLATION AND PERFORMANCE AND REPORT ANY DISCREPANCIES, IN WRITING, TO THE FOUNTAIN DESIGNER AND THE ARCHITECT/ENGINEER.
2. IT IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO CHECK AND COMPLY WITH ALL PLUMBING AND BUILDING CODES PRIOR TO INSTALLATION OF EQUIPMENT, LOCAL CODES TAKE PRECEDENCE OVER GENERAL NOTES WHERE DISCREPANCIES OR CONFLICTS EXIST.
3. ALL PIPING PENETRATIONS THROUGH ANY CONCRETE WALL OR FLOOR MUST BE MADE WITH RED BRASS, COPPER, OR SCH. 80 PVC PIPE AS SPECIFIED FOR THE INSTALLATION, AND MUST BE FLASHED OR FITTED WITH WATERSTOP FLANGE TO PREVENT LEAKAGE.
4. INTERCONNECTING PIPING BETWEEN THE POOL AND PUMP ROOM MUST BE PVC, COPPER OR BRASS AS SUITABLE FOR THE WORKING PRESSURE OF THE SYSTEM SPECIFICATION REQUIREMENTS AND LOCAL CODES. IF STEEL OR CAST IRON PIPING IS SPECIFIED, IT MUST HAVE HOT-DIPPED GALVANIZED OR COAL TAR EPOXY COATING. IF PVC IS SPECIFIED, USE SCHEDULE 80 PIPE AND FITTINGS. (REFER TO PVC INSTALLATION NOTES).
5. ALL PIPE CONNECTIONS BETWEEN DISSIMILAR METALS MUST BE MADE WITH DIELECTRIC FITTINGS, AND DIELECTRIC THREAD SEALING COMPOUND TO PREVENT GALVANIC DEGRADATION.
6. SUCTION CENTER LINE OF PUMP MUST BE LOCATED AT OR BELOW LOWER POOL FLOOR ELEVATION IF FLOODED-END-SUCTION TYPE, AND NO MORE THAN 4 FT. ABOVE POOL FLOOR ELEVATION IF SELF-PRIMING TYPE. ALL REDUCING FITTINGS MUST BE CONCENTRIC TYPE ON DISCHARGE LINE AND ECCENTRIC TYPE ON SUCTION LINE.
7. SUCTION LINE MUST BE INSTALLED AS A STRAIGHT RUN INTO THE PUMP SUCTION CONNECTION OF A LEAST EIGHT PIPE DIAMETERS WITH NO LOOPS, HIGH POINTS OR TRAPS.
8. USE LONG RADIUS ELBOWS ON ALL DIRECTIONAL CHANGES ON SUCTION AND DISCHARGE LINES WHERE INDICATED ON INSTALLATION DRAWINGS. IN SOME INSTANCES, PIPING DIAGRAMS ARE EXAGGERATED FOR PURPOSES OF CLARITY. MAKE ALL SUCTION AND DISCHARGE PIPE RUNS USING THE MOST DIRECT ROUTES POSSIBLE AND USING THE MINIMUM NUMBER OF FITTINGS POSSIBLE. SLOPE ALL LINES DOWN TO PUMP, IN ALL CASES, WITH NO LOOPS, TRAPS, OR HIGH POINTS.
9. ON SUCTION LINES USE ONLY BUTTERFLY, FULL-PORT OR GATE TYPE VALVES. NEVER REGULATE OR ADJUST FLOW FROM SUCTION SIDE OF PUMP. USE SUCTION VALVES FOR EQUIPMENT ISOLATION PURPOSES ONLY.
10. AN IN-LINE BASKET STRAINER IS RECOMMENDED ON THE SUCTION SIDE OF PUMPS, WITH BASKET PERFORATIONS PROPERLY SIZED TO PROTECT THE PUMP IMPELLER, AND FOUNTAIN NOZZLE/JET ORIFICES.
11. ON DISCHARGE LINES USE ONLY BUTTERFLY, GLOBE, BALL, PLUG OR OTHER LOW LOSS INFINITELY ADJUSTABLE VALVES, FOR ISOLATION AND FLOW REGULATION.
12. PROVIDE ADEQUATE OVERFLOW DRAIN AND FILL LINE CAPACITY FOR THE FOUNTAIN SYSTEM.
13. THE PIPING SYSTEM SHALL BE WATER PRESSURE TESTED FOR 24 HOURS PRIOR TO BACKFILLING AND SHALL THEN BE BURIED AND/OR SUPPORTED AS REQUIRED TO PROTECT THE INTEGRITY OF MECHANICAL SYSTEM. (REFER TO PVC INSTALLATION NOTES.)
14. INSTALLER SHALL PROVIDE ADEQUATE ACCESS, LIGHTING, DRAINAGE AND VENTILATION IN PUMP ROOM TO PREVENT FLOODING, CONDENSATION OR OVERHEATING OF EQUIPMENT, AND COMPLY WITH ALL OSHA CONFINED SPACE REGULATIONS AND REQUIREMENTS, BEFORE, DURING AND AFTER SYSTEM INSTALLATION.
15. ANY PRESSURIZED CITY WATER LINES SUPPLYING THE FOUNTAIN SYSTEM SHALL BE OF TYPE K COPPER AND SHALL BE PROTECTED BY AN APPROVED BACKFLOW PREVENTION DEVICE AND PRESSURE REDUCING VALVE SET AT 50 PSI MAXIMUM PRESSURE AND MINIMUM OF 40 PSI.
16. 'P' TRAPS AND VENTS SHALL BE INSTALLED ON ANY DRAIN LINE CONNECTED TO A SANITARY SEWER SYSTEM, WHERE AND WHEN REQUIRED BY PLUMBING CODE, REGARDLESS OF WHETHER SHOWN ON INSTALLATION DRAWINGS.

NOTE: ANY & ALL COSTS ASSOCIATED WITH ABOVE ARE RESPONSIBILITY OF INSTALLER.

17. WHEN INSTALLING SUCTION PIPING FOR SELF PRIMING PUMP SYSTEMS, THE PIPING SHALL BE INSTALLED IN SUCH A MANNER AS TO MAINTAIN A FLOODED SUCTION PIPE CONDITION ALL ALL TIMES UNTIL PIPING CONNECTS TO THE PUMP.
18. ALL PIPING IS ASSUMED TO BE BURIED BELOW GROUND IN ALL CASES, AND NOT INSTALLED ON OR ABOVE GRADE WHERE AN AIR TRAP, LOOP OR HIGH POINT COULD BE CREATED.

LIABILITY DISCLAIMER NOTICE

THE FOUNTAIN DESIGNER SHALL NOT BE RESPONSIBLE OR LIABLE FOR ANY CIVIL OR STRUCTURAL DESIGN DRAWINGS, DETAILS, NOTATIONS OR ANY OTHER ASPECTS OF THE PROJECT REGARDING FOUNTAIN LAYOUT, STRUCTURE OR CONSTRUCTION/BUILDING PRACTICES, INCLUDING, BUT NOT LIMITED TO, CONCRETE DESIGN, SPECIFICATIONS AND SLAB POUR METHODS, CONCRETE REINFORCEMENTS SUCH AS REBAR TYPE, SIZE AND LOCATIONS, OR CONCRETE STRUCTURAL WATERPROOFING SPECIFICATIONS, MATERIALS AND METHODS, ETC.

ANY STRUCTURE DEPICTED OR APPEARING ON OUR PLANS SHALL BE SHOWN SOLELY FOR DIMENSIONAL REFERENCE AND GENERAL STRUCTURAL ORIENTATION IN ORDER TO ADEQUATELY IDENTIFY, COORDINATE, ORIENT, LOCATE AND INSTALL OUR EQUIPMENT PACKAGE, AND SHALL NOT BE RELIED ON FOR ANY OTHER PURPOSES.

CLIENT IS ADVISED TO ENLIST THE SERVICES OF A LICENSED PROFESSIONAL ENGINEER FAMILIAR AND EXPERIENCED WITH SUCH WORK WHEN DESIGNING/CONSTRUCTING ANY FOUNTAIN POOL OR PUMP ROOM STRUCTURE, WHO SHALL ACCEPT COMPLETE RESPONSIBILITY AND LIABILITY FOR ALL STRUCTURAL AND CIVIL ENGINEERING DETAILS PERTAINING TO THE PROJECT.

PVC INSTALLATION NOTES

1. UNLESS ARCHITECTS SPECIFICATIONS INDICATE OTHERWISE, THE MINIMUM PIPING AND FITTING STANDARD RECOMMENDED FOR THIS INSTALLATION IS TYPE 1 SCHEDULE 80 PVC TO ASTM #D-1784, D-2464 AND D-3467.
2. FOR PIPING INSTALLATIONS IN EQUIPMENT ROOMS, VAULTS AND ALL AREAS IN PUBLIC VIEW USE ONLY CLEAR PVC CLEANER MEETING NSF, UPC, AND ASTM STANDARDS FOR CLEANING AND REPAIRING PVC PIPE AND FITTING SURFACES FOR SOLVENT CEMENTING (IPS CORPORATION "WELD-ON" TYPE C-65 OR EQUIVALENT). FOLLOW ALL DIRECTIONS AND INSTRUCTIONS APPEARING ON PRODUCT LABEL.
3. FOR ALL BURIED PIPING INSTALLATIONS USE ONLY PURPLE PVC PRIMER MEETING NSF, UPC, AND ASTM #F-656 STANDARDS FOR SOFTENING AND PREPARING PIPE AND FITTING SURFACES FOR SOLVENT CEMENTING (IPS CORPORATION "WELD-ON" TYPE P-70 OR EQUIVALENT). FOLLOW ALL DIRECTIONS AND INSTRUCTIONS APPEARING ON PRODUCT LABEL.
4. USE ONLY GRAY, HEAVY BODIED, MEDIUM SETTING PVC CEMENT MEETING NSF, UPC AND ASTM #D-2564, STANDARDS FOR SOLVENT CEMENTING PVC PLASTIC PIPE AND FITTINGS (IPS CORPORATION "WELD-ON" TYPE 711 OR EQUIVALENT). FOLLOW ALL DIRECTIONS AND INSTRUCTIONS ON PRODUCT LABEL.
5. PRESSURE TEST ALL WATER PIPING PRIOR TO COMMENCING BACKFILL OPERATIONS. (SEE NOTES BELOW) HYDROSTATIC (WATER) TESTING SHALL BE THE ONLY APPROVED METHOD. DO NOT PRESSURE TEST WITH COMPRESSED AIR AS SEVERE PIPE DAMAGE AND BODILY INJURY CAN OCCUR. DO NOT EXCEED THE RATED OPERATIONAL PRESSURE OF THE PIPING AND/OR FITTINGS CARRYING THE LOWEST PRESSURE RATING. LOCATE AND REPAIR ANY LEAKS AND RETEST (SEE NOTES BELOW) PRIOR TO COMPLETION OF BACKFILL OPERATIONS.
6. CONCRETE "THRUST" BLOCKING IS RECOMMENDED AT ALL DIRECTIONAL CHANGES (TEE'S, ELBOWS, ETC.), REDUCER FITTINGS AND LINE TERMINATIONS (BUSHINGS, END CAPS, PLUGS, ETC.) WHEN SYSTEM IS IN OPERATION.
7. PERFORM ADEQUATE TRENCHING AND BACKFILL OPERATIONS WHEN INSTALLING PVC PIPING BELOW GRADE. TRENCH WIDTH SHOULD BE MINIMUM OF "PIPE O.D. PLUS 12 INCHES" AND DEEP ENOUGH TO ALLOW PIPING TO BE BURIED MINIMUM 12" BELOW THE MAXIMUM EXPECTED FROST PENETRATION LINE TO AVOID FREEZE DAMAGE. LAY PIPING IN HORIZONTAL, PARALLEL AND PERPENDICULAR MANNER. AVOID VERTICAL STACKING OF PIPES. SPACE MINIMUM OF 3" APART ON ALL PARALLEL RUNS.
8. USE ONLY CLEAN, FREE-FLOWING, NON-EXPANSIVE BACKFILL MATERIAL (NATURALLY ROUNDED 1/4" PEA GRAVEL OR SAND) AND BACKFILL IN 8"-12" LIFTS WITH ADEQUATE AND COMPLETE COMPACTION BETWEEN LIFTS TO 90% OF MAXIMUM DENSITY PER ASTM 1557-70. COMPACTION TO EXCESSIVE LOADS SHALL NOT BE PERMITTED. A SECOND PRESSURE TEST ON THE PIPING SYSTEM MUST BE MADE AT THIS TIME TO INSURE THAT PIPING HAS NOT BEEN DAMAGED DURING BACKFILL OPERATIONS (SEE NOTES BELOW).

NOTE: ANY & ALL COSTS ASSOCIATED WITH ABOVE ARE RESPONSIBILITY OF INSTALLER.

SYSTEM PERFORMANCE (RESPONSIBILITY OF INSTALLER)

TESTING

1. PERFORM TESTS IN THE PRESENCE OF THE OWNER, ARCHITECT, OR AUTHORIZED REPRESENTATIVE FOR DESIGNATED DURATION WITH NO PRESSURE LOSS OR NOTICEABLE LEAKS.
2. DO NOT INCLUDE EQUIPMENT IN TESTS WHICH COULD BE DAMAGED BY HIGH PRESSURE.
3. FLUSH OUT ALL PIPES WITH CLEAN WATER PRIOR TO PERFORMING LEAK TESTS.
4. PERFORM TESTS AS FOLLOWS:

System	Test Pressure	Medium	Duration
Water	50 psi	Water	4 hours
Drainage	10 ft.	Water	24 hours

5. AUTOMATIC MAKE-UP WATER SYSTEMS SHALL BE THOROUGHLY TESTED AND OPERATIVE AT THE TIME OF FINAL OBSERVATION.
6. AFTER THE SYSTEM HAS OPERATED FOR ONE WEEK, CONTRACTOR AND OWNER'S REPRESENTATIVE SHALL INSPECT WATER MAKE-UP RATES AND AGREE THAT WATER USAGE IS APPROPRIATE FOR SYSTEM OF THIS TYPE, ARE WITHIN LOCAL ORDINANCES OR CODES, AND THAT SUCH RATES ARE NOT INDICATIVE OF EXCESSIVE LEAKAGE FROM SYSTEM. A WATER METER SHALL BE PLACED ON THE FILL LINE FOR THIS PURPOSE, IF NECESSARY TO DOCUMENT PRECISE WATER USAGE.

NOTICE OF STATED AND INTENDED USE FOR DECORATIVE ARCHITECTURAL VIEWING PURPOSES ONLY UNLESS SPECIFICALLY REPRESENTED, IDENTIFIED, OR OTHERWISE SPECIFIED AND DESIGNED AS A "WATERPLAY" FOUNTAIN

IT IS HEREBY ACKNOWLEDGED, AGREED AND UNDERSTOOD BY SPECIFIER / PURCHASER / OWNER/ OPERATOR OF THIS EQUIPMENT AND/OR SYSTEM THAT ITS STATED AND INTENDED USE IS FOR DECORATIVE VIEWING PURPOSES ONLY, AND NOT FOR PUBLIC BATHING, PUBLIC ENTRY OR PUBLIC RECREATIONAL USE. AS SUCH THE FOUNTAIN DESIGNER ASSUMES NO RESPONSIBILITY OR LIABILITY WHATSOEVER FOR PERSONAL INJURY, SICKNESS, ILLNESS, DISEASE, OR DEATH WHICH MAY OCCUR AS A RESULT OF THE EQUIPMENT/SYSTEM BEING USED, OPERATED OR OTHERWISE MAINTAINED IN A MANNER INCONSISTENT WITH ITS STATED AND INTENDED PURPOSE.
SPECIFIER/PURCHASER/OWNER/OPERATOR IS SOLELY RESPONSIBLE FOR NOTIFYING THE PUBLIC OF THE STATED AND INTENDED USE AND OPERATION OF THIS DECORATIVE ARCHITECTURAL FOUNTAIN AND FOR LAWFUL ENFORCEMENT THEREOF, INCLUDING POSTING ANY AND ALL SIGNS, NOTICES, WARNINGS, INSTRUCTIONS AND BARRIERS AND PROVIDING PERSONNEL AS NECESSARY TO ENFORCE COMPLIANCE WITH ITS INTENDED USE.

PURCHASER/OWNER INSTALLATION, MAINTENANCE & SERVICE RESPONSIBILITY

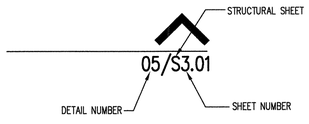
THIS FOUNTAIN SYSTEM IS DESIGNED, SPECIFIED, OFFERED AND SOLD UNDER THE ASSUMPTION AND UNDERSTANDING THAT THE PURCHASER/OWNER HAS REVIEWED, AND IS FAMILIAR WITH, THE FOUNTAIN PROJECT AND UNDERSTANDS THE COMPLEXITIES OF THE EQUIPMENT AND HAS, OR WILL CONTRACT WITH, COMPETENT AND EXPERIENCED INSTALLERS, AND THE PURCHASER/OWNER HAS, OR WILL CONTRACT WITH, COMPETENT AND EXPERIENCED OPERATION, MAINTENANCE AND SERVICE PERSONNEL FAMILIAR WITH SUCH EQUIPMENT TO PROPERLY CARE FOR THE EQUIPMENT. THE FOUNTAIN DESIGNER SHALL IN NO WAY BE HELD RESPONSIBLE FOR DETERMINING WHETHER OR NOT PURCHASER/END USER HAS ADEQUATE KNOWLEDGE, RESOURCES, ABILITIES OR EXPERIENCED TRADES AND PERSONNEL TO INSTALL, MAINTAIN AND OPERATE THIS FOUNTAIN SYSTEM AND ITS ASSOCIATED EQUIPMENT PRIOR TO

HDPE PIPE

1. PIPE SHALL BE MANUFACTURED FROM A PE 3408 RESIN LISTED WITH THE PLASTIC PIPE INSTITUTE (PPI) AS TR-4. THE RESIN MATERIAL WILL MEET THE SPECIFICATIONS OF ASTM D3350-99 WITH A CELL CLASSIFICATION OF PE:345464C. PIPE SHALL HAVE A MANUFACTURING STANDARD OF ASTM F714. PIPE SHALL BE DR 17 (100PSI WPR) UNLESS OTHERWISE SPECIFIED ON THE PLANS. THE PIPE SHALL CONTAIN NO RECYCLED COMPOUNDS EXCEPT THAT GENERATED IN THE MANUFACTURER'S OWN PLANT FROM RESIN OF THE SAME SPECIFICATION FROM THE SAME RAW MATERIAL.
2. BUTT FUSION FITTINGS – FITTINGS SHALL BE PE3408 HDPE, CELL CLASSIFICATION OF 345464C AS DETERMINED BY ASTM D3350-99. BUTT FUSION FITTINGS SHALL HAVE A MANUFACTURING STANDARD OF ASTM D3261. MOLDED & FABRICATED FITTINGS SHALL HAVE THE SAME PRESSURE RATING AS THE PIPE UNLESS OTHERWISE SPECIFIED ON THE PLANS. FABRICATED FITTINGS ARE TO BE MANUFACTURED USING A DATA LOGGER. TEMPERATURE, FUSION PRESSURE AND A GRAPHIC REPRESENTATION OF THE FUSION CYCLE SHALL BE PART OF THE QUALITY CONTROL RECORDS.
3. ELECTROFUSION FITTINGS – FITTINGS SHALL BE PE3408 HDPE, CELL CLASSIFICATION OF 345464C AS DETERMINED BY ASTM D3350-99. ELECTROFUSION FITTINGS SHALL HAVE A MANUFACTURING STANDARD OF ASTM F-1055. FITTINGS SHALL HAVE THE SAME PRESSURE RATING AS THE PIPE UNLESS OTHERWISE SPECIFIED ON THE PLANS.
4. FLANGED AND MECHANICAL JOINT ADAPTERS – FLANGED AND MECHANICAL JOINT ADAPTERS SHALL BE PE 3408 HDPE, CELL CLASSIFICATION OF 345464C AS DETERMINED BY ASTM D-3350. FLANGED AND MECHANICAL JOINT ADAPTERS SHALL HAVE A MANUFACTURING STANDARD OF ASTM D-3261. FITTINGS SHALL HAVE THE SAME PRESSURE RATING AS THE PIPE UNLESS OTHERWISE SPECIFIED ON THE PLANS.
5. PIPE AND FITTINGS: SIZE AS INDICATED ON THE PLANS. INSTALL AS SHOWN IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
6. HAULING, UNLOADING AND DISTRIBUTING PIPE: DURING LOADING, TRANSPORTATION AND UNLOADING, EVERY PRECAUTION SHALL BE TAKEN TO PREVENT INJURY TO THE PIPE. NO PIPE SHALL BE DROPPED FROM CARS OR TRUCKS, OR ALLOWED TO ROLL DOWN SLIDES WITHOUT PROPER RETAINING ROPES. DURING TRANSPORTATION EACH PIPE SHALL REST ON SUITABLE PADS, STRIPS, SKIDS OR BLOCKS SECURELY WEDGED OR TIED IN PLACE. ANY PIPE DAMAGED SHALL BE REPLACED.
7. SECTIONS OF POLYETHYLENE PIPE SHOULD BE JOINED INTO CONTINUOUS LENGTHS ON THE JOBSITE ABOVE GROUND. THE JOINING METHOD SHALL BE THE BUTT FUSION METHOD AND SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE PIPE MANUFACTURER'S RECOMMENDATIONS. THE BUTT FUSION EQUIPMENT USED IN THE JOINING PROCEDURES SHOULD BE CAPABLE OF MEETING ALL CONDITIONS RECOMMENDED BY THE PIPE MANUFACTURER, INCLUDING, BUT NOT LIMITED TO, TEMPERATURE REQUIREMENTS OF 400 DEGREES FAHRENHEIT, ALIGNMENT, AND AN INTERFACIAL FUSION PRESSURE OF 75 PSI. THE BUTT FUSION JOINING WILL PRODUCE A JOINT WELD STRENGTH EQUAL TO OR GREATER THAN THE TENSILE STRENGTH OF THE PIPE ITSELF. ALL FIELD WELDS SHALL BE MADE WITH FUSION EQUIPMENT EQUIPPED WITH A DATA LOGGER, TEMPERATURE, FUSION PRESSURE AND A GRAPHIC REPRESENTATION OF THE FUSION CYCLE SHALL BE PART OF THE QUALITY CONTROL RECORDS.
8. SIDEWALL FUSIONS FOR CONNECTIONS TO OUTLET PIPING SHALL BE PERFORMED IN ACCORDANCE WITH HDPE PIPE AND FITTING MANUFACTURER'S SPECIFICATIONS. THE HEATING IRONS USED FOR SIDEWALL FUSION SHALL HAVE AN INSIDE DIAMETER EQUAL TO THE OUTSIDE DIAMETER OF THE HDPE PIPE BEING FUSED. THE SIZE OF THE HEATING IRON SHALL BE ¼ INCH LARGER THAN THE SIZE OF THE OUTLET BRANCH BEING FUSED.
9. MECHANICAL JOINING WILL BE USED WHERE THE BUTT FUSION METHOD CAN NOT BE USED. MECHANICAL JOINING WILL BE ACCOMPLISHED BY EITHER USING A HDPE FLANGE ADAPTER WITH A DUCTILE IRON BACK-UP RING OR HDPE MECHANICAL JOINT ADAPTER WITH A DUCTILE IRON BACK-UP RING.
10. SOCKET FUSION, HOT GAS FUS

ABBREVIATIONS

AFF.	ABOVE FINISH FLOOR
ADD'L.	ADDITIONAL
ADJ.	ADJACENT
ALT.	ALTERNATE
ANC.	ANCHOR
A.B.	ANCHOR BOLT
&	AND
L	ANGLE
ARCH.	ARCHITECT
@	AT
BM.	BEAM
BRG.	BEARING
BNT. PL.	BENT PLATE
BTWN	BETWEEN
BOTT.	BOTTOM
BOT.	BOTTOM
B.L.	BRICK LEDGE
BLDG.	BUILDING
CANT.	CANTILEVER
CIP	CAST IN PLACE
CTR.	CENTER
℄	CENTER LINE
CL.	CENTER LINE
CLR.	CLEAR
COL.	COLUMN
COLS.	COLUMNS
COMP.	COMPOSITE
C	COMPRESSION
COM.	COMPRESSION
CONC.	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONNX.	CONNECTION
CONTR.	CONTRACTOR
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
DBA	DEFORMED BAR ANCHOR
DIAG.	DIAGONAL
DIA.	DIAMETER
DBL.	DOUBLE
JL	DOUBLE ANGLE
D.P.T.C.	DOUBLE PITCHED TOP CHORD
DWLS.	DOWELS
DWGS.	DRAWINGS
EA.	EACH
E.F.	EACH FACE
EA. WAY	EACH WAY
EL.	ELEVATION
ELEV.	ELEVATION OR ELEVATOR
ENGR.	ENGINEER
ESC.	ESCALATOR
EQ.	EQUAL
EXIST.	EXISTING
EXP.	EXPANSION
EJ	EXPANSION JOINT
EXT.	EXTERIOR
F.S.	FAR SIDE
FIN.	FINISH
F.F.	FINISH FLOOR
FLR.	FLOOR
FTG.	FOOTING
FND.	FOUNDATION
GALV.	GALVANIZE
GA.	GAUGE
GR.	GRADE
HD.	HAND
H.R.	HARD ROCK
HT.	HEIGHT
HK.	HOOK
HORIZ.	HORIZONTAL
IN.	INCH
INFO.	INFORMATION
I.D.	INSIDE DIAMETER
INT.	INTERIOR
JT.	JOINT
JST.	JOIST
K	KIPS
K.O.	KNOCK OUT
△LL	LIVE LOAD DEFLECTION
LVL.	LEVEL
LT.	LIGHT
LT. WT.	LIGHT WEIGHT
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
MACH.	MACHINE
MFR.	MANUFACTURER
M.L.	MATCH-LINE
MAT'L	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MEZZ.	MEZZANINE
MID.	MIDDLE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MON.	MONOLITHIC
N.S.	NEAR SIDE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
N	NUMBER
NO.	NUMBER
O.C.	ON CENTER
OPNG.	OPENING
OPP.	OPPOSITE
O.H.	OPPOSITE HAND
O.D.	OUTSIDE DIAMETER
PERP.	PERPENDICULAR
ℙ	PLATE
PL.	PLATE
P.C.F.	POUNDS PER CUBIC FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PC	PRECAST
PROJ.	PROJECTION
REF.	REFER TO OR REFERENCE
REINF.	REINFORCEMENT OR REINFORCE
REM.	REMAINDER
R.	REMAINDER OR RADIUS
REQ'D.	REQUIRED
RTU	ROOF TOP UNIT
SCHED.	SCHEDULE
SECT.	SECTION
SHT.	SHEET
SLH	SHORT LEG HORIZONTAL
SLV	SHORT LEG VERTICAL
SHR.	SHRINKAGE
SIM.	SIMILAR
S	SIZE (BAR)
S.O.G.	SLAB ON GRADE
SYP	SOUTHERN YELLOW PINE
SPA.	SPACING
SPEC.	SPECIFICATION
SS	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
STL. BM.	STEEL BEAM
STIFF.	STIFFENER
S.A.	STUD ANCHOR
SYM.	SYMMETRICAL
TEN	TENSION
T	TENSION FORCE
TEMP.	TEMPERATURE
TERM.	TERMINATE
T&B	TOP AND BOTTOM
T.O.	TOP OF
T.O.C.	TOP OF CONCRETE
T.O.F.	TOP OF FOOTING
T.O.S.	TOP OF SLAB
T.O. STL.	TOP OF STEEL
TS	TUBE SECTION (STEEL)
T	TYPE (BAR or STIRRUP)
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VAR.	VARIES
VERT.	VERTICAL
WT.	WEIGHT
WWF.	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT
W.P.	WORK POINT



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GENERAL NOTES

GENERAL NOTES

1. FOUNDATION DESIGN AND SUBSURFACE INFORMATION IS BASED ON THE GEOTECHNICAL INVESTIGATION PROVIDED BY GEOTEL ENGINEERING, INC. REPORT NO. E08-130 DATED MARCH 6, 2008.
   THE PIER FOUNDATIONS SHALL CONSIST OF DRILLED STRAIGHT SHAFT PIERS.
   FOUNDED IN GREY UNWEATHERED SHALE. DRILLED PIERS ARE DESIGNED FOR A NET END BEARING PRESSURE OF 20 ksf AND NET SKIN FRICTION OF 2 ksf IN COMPRESSION AND 1.2 ksf IN TENSION (UPLIFT).

2. THE BUILDING SLAB SHALL BE PLACED OVER A 4" CRUSHED STONE DRAINAGE LAYER OVER SUBGRADE PREPARED PER THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. ALL FILL, EXISTING PAVEMENTS AND FOUNDATIONS, ORGANICS AND ANY OTHER DELETERIOUS MATERIALS SHALL BE REMOVED AND REPLACED WITH APPROVED FILL.

3. THE STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE PROVISIONS OF THE INTERNATIONAL BUILDING CODE, 2003 EDITION.

4. DESIGN LOADS ARE LISTED BELOW:
   A. LIVE LOADS:
      PUBLIC AREAS 100 PSF
   B. WIND LOADS: PER ASCE 7-02, 90 MPH

   LIVE LOAD REDUCTIONS ARE IN ACCORDANCE TO THE 1994 UNIFORM BUILDING CODE. NO ROOF LIVE LOAD REDUCTION IS TAKEN ON ANY ROOF MEMBER.

5. PRINCIPAL OPENINGS ARE SHOWN ON THE DRAWINGS. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR SLEEVES, CURBS, INSERTS AND OTHER OPENINGS NOT SHOWN. THE CONTRACTOR SHALL PROVIDE FOR ALL OPENINGS WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT. THE GENERAL CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL OPENINGS WITH THE MECHANICAL SUBCONTRACTOR AND SHALL COORDINATE THEM WITH THE MECHANICAL EQUIPMENT PURCHASED. ANY DEVIATION FROM OR ADDITIONS TO OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS.

6. LOADINGS FOR MECHANICAL EQUIPMENT ARE BASED ON THE UNITS SHOWN ON THE MECHANICAL DRAWINGS. ANY CHANGES IN TYPE, SIZE, MANUFACTURER, WEIGHT OR NUMBER OF PIECES OF EQUIPMENT SHALL BE REPORTED TO THE ARCHITECT FOR VERIFICATION OF THE ADEQUACY OF SUPPORTING MEMBERS PRIOR TO THE PLACEMENT OF SUCH EQUIPMENT.

7. SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS NOT SHOWN AND FOR EXACT LOCATIONS OF ALL SLAB DEPRESSIONS. THE CONTRACTOR SHALL COMPARE THE STRUCTURAL SECTIONS WITH THE ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATING OR INSTALLING STRUCTURAL MEMBERS.

8. REFERENCE ARCHITECTURAL DRAWINGS FOR ALL EXPANSION JOINT DETAILS, BLOCKOUTS, AND LOCATIONS.

9. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.

CONCRETE NOTES

1. ALL CONCRETE SHALL BE LABORATORY DESIGNED AND CONTROLLED AND SHALL MEET THE REQUIREMENTS OF "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI318). CONCRETE SHALL ALSO CONFORM TO THE FOLLOWING REQUIREMENTS:

COMPRESSIVE STRENGTH @ 28 DAYS U.N.O.	TYPE AGGREGATE	AIR ENTRAINMENT	USAGE	WATER/CEMENT RATIO (MAX.)	MODULUS OF ELASTICITY (MIN.)
3000 PSI	CRUSHED LIMESTONE	NO	DRILLED PIERS (24" DIA. ONLY) AS NOTED IN SCHEDULE, AND SLAB-ON-GRADE	0.55	3.1×10^6 PSI

2. ALL CONCRETE WORK TO BE IN ACCORDANCE WITH ACI 318 AND ACI 301.

3. CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS NOTED BELOW. REFERENCE ACI 318 SECTION 7.7 FOR CONDITIONS NOT NOTED.

PILASTERS	3" BACKFILLED SIDES 2" NON-BACKFILLED SIDES
ALL CONCRETE PLACED AGAINST SOIL	3"
SLABS-ON-GRADE	1" TOP
BASEMENT WALLS	2" BACKFILLED SIDES 1" NON-BACKFILLED SIDES

CONCRETE NOTES (CONT.)

NON PRESTRESSED CONCRETE

CONCRETE EXPOSED TO SOIL OR WEATHER	2" (#6 OR LARGER BARS) 1 1/2" (#5 BAR OR SMALLER)
CONCRETE NOT EXPOSED TO SOIL OR WEATHER :	
BEAMS AND COLUMNS	1 1/2" (REF. DETAILS)
ELEVATED STRUCTURAL SLABS	1"

PRESTRESSED CONCRETE:

CONCRETE EXPOSED TO EARTH OR WEATHER	1" (SLABS) 1 1/2" (BEAMS)
CONCRETE NOT EXPOSED TO EARTH OR WEATHER :	
SLABS	3/4"
BEAMS	1 1/2"

4. IN THE EVENT THAT CONCRETE CASTING IS INTERRUPTED HORIZONTAL OR NEARLY HORIZONTAL CONSTRUCTION JOINTS SHALL BE PREPARED BY ROUGHENING THE SURFACE IN AN APPROVED MANNER SO THAT THE AGGREGATE IS EXPOSED UNIFORMLY, LEAVING NO LAITANCE, LOOSE PARTICLES OR DAMAGED CONCRETE. ALL HORIZONTAL JOINTS AND REMEDIAL ACTION SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVED.

5. ALL CONCRETE TO BE PUMPED SHALL CONTAIN HIGH RANGE WATER REDUCER. REFER TO SPECIFICATIONS FOR MORE INFO.

6. ALL CURING COMPOUNDS SHALL BE NON-CHLORIDE & SELF DISSIPATING. CONTRACTOR SHALL ACCOUNT FOR SCHEDULE IMPLICATIONS IMPACTING THE INSTALLATION OF FINISH MATERIALS WITH REGARD TO MOISTURE CONTENT OF CONCRETE.

STRUCTURAL STEEL AND METAL DECK NOTES

1. STRUCTURAL STEEL SHALL BE NEW AND SHALL CONFORM TO AISC. "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", LATEST APPROVED ADDITION.

2. ALL STRUCTURAL STEEL SHAPES, PLATES, ETC., SHALL CONFORM TO THE FOLLOWING DESIGNATIONS, UNLESS NOTED OTHERWISE:

   ASTM A36 ALL STRUCTURAL STEEL UNLESS NOTED OTHERWISE

3. STEEL MEMBERS SHALL NOT BE SPLICED EXCEPT WHERE SHOWN ON THE DRAWINGS, UNLESS APPROVED BY THE ENGINEER.

4. ALL STRUCTURAL STEEL DETAILS AND CONNECTIONS SHALL CONFORM TO THE STANDARDS OF THE AISC.

5. ALL ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, EXCEPT AS NOTED. REFER TO BASEPLATE DETAILS FOR LOCATIONS WHERE A325 ANCHOR BOLTS ARE REQUIRED.

6. HOT DIP GALVANIZE ALL STRUCTURAL STEEL EXPOSED TO WEATHER.

REINFORCING STEEL NOTES

1. ALL REINFORCING SHALL BE NEW BILLET STEEL, ASTM A615 – GRADE 60 UNLESS NOTED OTHERWISE. REINFORCING SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE ACI SP-66 AND ACI 318.

2. ALL #11, #14 AND #18 REINFORCING BARS SHALL BE NEW BILLET STEEL ASTM A615 – GRADE 75. REINFORCING SHALL BE DETAILED & FABRICATED IN ACCORDANCE WITH THE ACI SP-66 & ACI 318.

3. HEADED STUDS USED IN FABRICATION OF EMBEDDED ASSEMBLIES SHALL BE WELDED TO THOSE ASSEMBLIES USING A FULL FUSION PROCESS.

4. HORIZONTAL WALL REINFORCEMENT SHALL BE CONTINUOUS AND SHALL HAVE 90 DEGREE BENDS AND EXTENSIONS AT CORNERS AND INTERSECTIONS AS SHOWN ON THE DRAWINGS.

5. ALL LAPS IN WELDED WIRE FABRIC SHALL BE ONE MESH PLUS TWO INCHES AT SLICES.

6. ALL BARS USED FOR DEFORMED BAR ANCHORS (DBA) SHALL CONFORM TO ASTM A706 fy = 60ksi UNLESS NOTED OTHERWISE

BACKFILL NOTES

1. BASEMENT WALLS, ELEVATOR PIT WALLS AND GARAGE RETAINING WALLS ARE DESIGNED FOR AN AT-REST EQUIVALENT FLUID PRESSURE OF FIFTY-FIVE (55) POUNDS PER SQUARE FOOT PER FOOT OF DEPTH AND AN ACTIVE EQUIVALENT FLUID PRESSURE OF THIRTY-FIVE (35) POUNDS PER SQUARE FOOT PER FOOT OF DEPTH. ALL WALLS SHALL BE DRAINED AND BACKFILLED WITH CRUSHED STONE OR GRAVEL AGGREGATE AND SHALL MEET TXDOT 1993 STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES , ITEM 247, FLEXIBLE BASE, TYPE A, TYPE B, OR TYPE C, GRADE 1 THROUGH 5. SELECT FILL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8 INCH IN THICKNESS AND COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY AS DETERMINED BY TXDOT, TEX-113E, COMPACTION TEST. THE MOISTURE CONTENT OF THE FILL SHOULD BE MAINTAINED WITHIN THE RANGE 2 PERCENTAGE POINT BELOW TO 2 PERCENTAGE POINTS ABOVE THE OPTIMAL MOISTURE CONTENT UNTIL FINAL COMPACTION. REFERENCE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

2. THE WALL SHALL NOT BE BACKFILLED UNTIL:
   1.) THE WALL AND FLOOR CONCRETE STRENGTH HAS REACHED THE SPECIFIED 28 DAY COMPRESSIVE STRENGTH.

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE

1127' NORTH OF VITRUVIAN WAY.
BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF

VITRUVIAN WAY AND MARSH LANE.



NOV. 3, 2009

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BDD PROJECT #09118

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

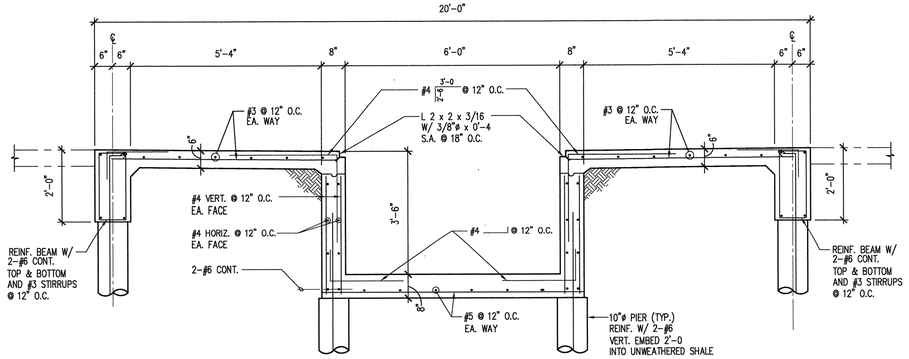
GENERAL NOTES & ABBREVIATIONS

WATER FEATURES by Greenscape

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	RLR	TN	NOV. 3, 2009	PW# 2009-04	S101

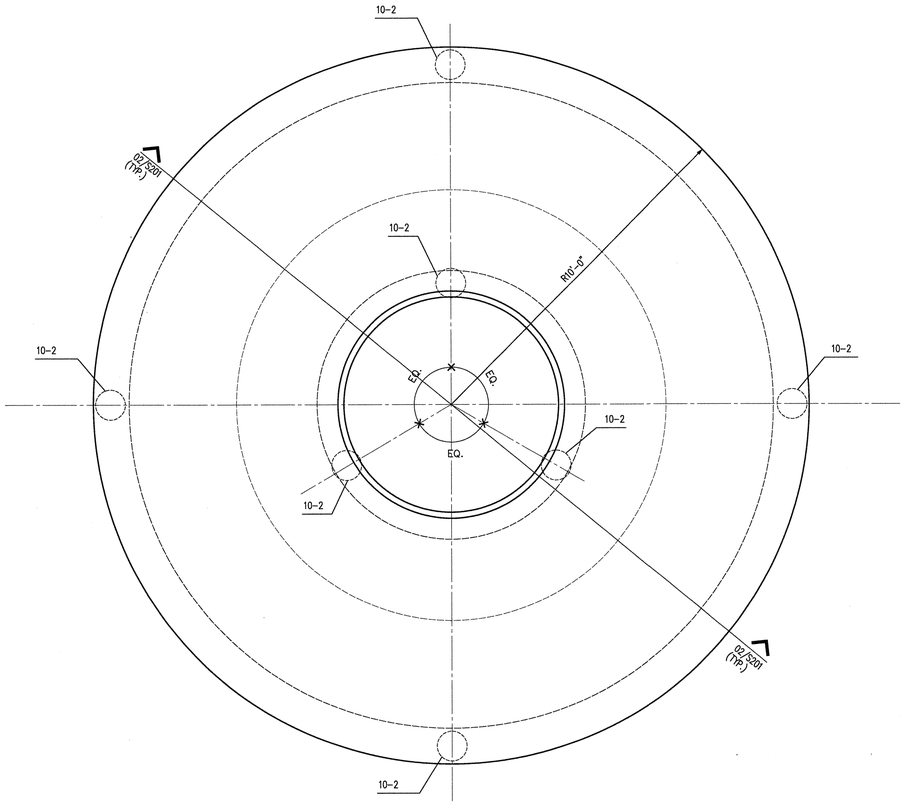
BID

PARK IMPROVEMENTS - VITRUVIAN PARK



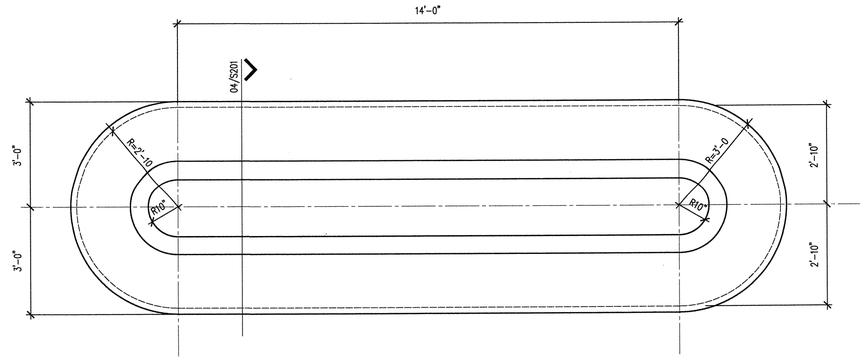
02 INTERACTIVE SECTION

SCALE: 1/2"=1'-0



01 INTERACTIVE FOUNTAIN PLAN

SCALE: 1/2"=1'-0



03 STREET FOUNTAIN PLAN

SCALE: 1/2"=1'-0

PLAN NOTES

1. REFER TO GREENSCAPE DRAWINGS FOR LOCATIONS AND ELEVATION ON SITE.
2. CONCRETE STRENGTH: f'c = 3000 PSI HARDROCK NORMAL WEIGHT.
3. PLACE FOUNTAIN OVER WELL COMPACTED SAND BED OVER IN SITU WEATHERED LIMESTONE.

04 STREET SECTION

SCALE: 1/2"=1'-0

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE

1127' NORTH OF VITRUVIAN WAY.
BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF

VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
RICHARD L. REED
87876
LICENSED
PROFESSIONAL ENGINEER

NOV. 3, 2009

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NO.	REVISION	BY	DATE

Addison. TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

INTERACTIVE, STREET FOUNTAIN PLANS & SECTIONS

WATER FEATURES by Greenscape

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	RLR	TN	NOV. 3, 2009 BID	PW# 2009-04	S201

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BDD PROJECT #09118

PARK IMPROVEMENTS - VITRUVIAN PARK

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SIDEWALK WATER FEATURE COMPONENT LEGEND – PHASE I

SYM	DETAIL	DESCRIPTION	MODEL NO.	#REQ'D
(1)	D102–01	PRE–FABRICATED DIRECT BURIAL EQUIPMENT VAULT TO INCLUDE DISPLAY / FILTER PUMP, STRAINER, FILTER, WATER TREATMENT EQUIPMENT, ALL NECESSARY VALVING AND ELECTRICAL CONTROLS.	RDP–2–300	1
(2)	D101–02	3" SUCTION PENETRATION	RA/DP–884	2
(3)	D101–03	3/4" BUBBLER NOZZLE	RBN–075	8
(4)	D101–04	FRONT ACCESS SKIMMER	RPS–150–FA–WS	2
(5)	D101–05	VACUUM FITTING	RVF–150–WS	1
(6)	D101–06	EYEBALL INLET FITTING	REF–150–WS	1
(7)	D101–07	SIDEWALL OVERFLOW DRAIN	ROVS–300–W	1
(8)	D101–08	FLOOR DRAIN FITTING	RFD–300	1
(9)	D101–09	WATER LEVEL CONTROL SENSOR	HYDREL ELWC1	1
(10)	D101–10	'COPPER SILVER' IONIZER	RCUAG–25	1
(11)	D101–11	FREESTANDING LIGHT FIXTURE	RFL–250–E	8
(12)	D101–12	FOUR CORD SUBMERSIBLE JUNCTION BOX	RJB–4–100	2
(13)	D102–03	ANEMOMETER (FIELD VERIFY LOCATION)	WS425	1
(14)	D102–04	3" DISCHARGE WATERSTOP PENETRATION	RWS–300–P	2

SIDEWALK WATER FEATURE PIPING LEGEND – PHASE I

SYM	SIZE	DESCRIPTION	#REQ'D
1	3"	DISPLAY SUCTION LINE	1
2	3"	DISPLAY SUCTION LINE	2
3	3"	DISPLAY DISCHARGE LINE	1
4	3"	DISPLAY DISCHARGE LINE	2
5	2"	DISPLAY DISCHARGE MANIFOLD	1
6	3/4"	DISPLAY DISCHARGE LINE	2
7	2"	FILTER SUCTION LINE	1
8	1 1/2"	SKIMMER SUCTION LINE	2
9	1 1/2"	VACUUM LINE	1
10	2"	FILTER DISCHARGE LINE	1
11	1 1/2"	FILTER EYEBALL FITTING DISCHARGE LINE	1
12	3"	OVERFLOW LINE	1
13	3"	DRAIN LINE	1
14	3"	OVERFLOW / DRAIN LINE TO SANITARY	1

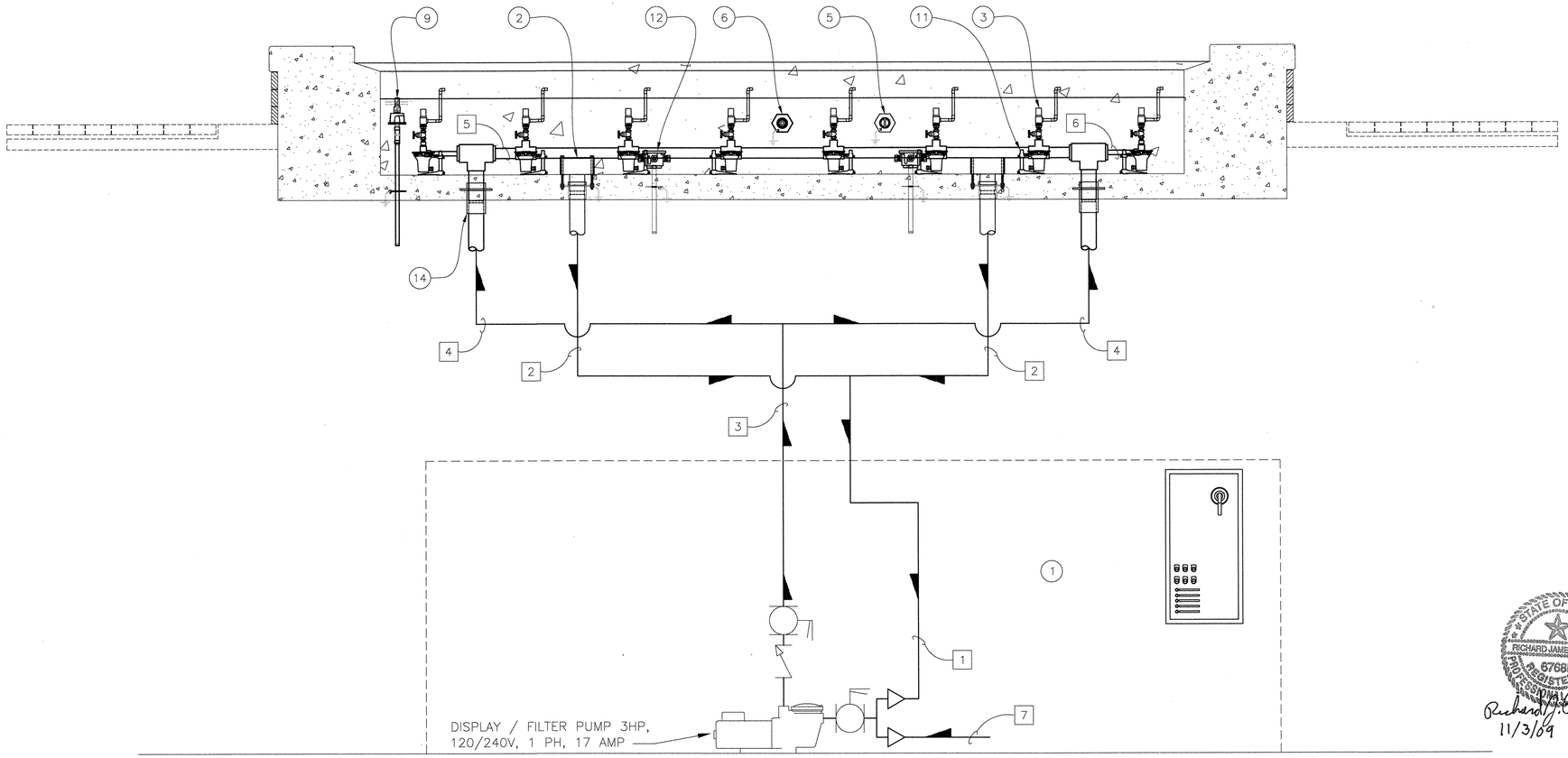
PUMP SYSTEMS, POOL FITTINGS, PIPING, AND ELECTRICAL RUNS ARE SHOWN FOR CLARITY ONLY. ACTUAL ROUTING MAY DIFFER IN THE FIELD

ELECTRICAL CONDUIT – DASH DOUBLE DOT

HYDRAULIC PIPING/LINES – CONTINUOUS

UNDERWATER CABLE – DASH DOT

FLOW DIRECTION



01 DISPLAY PIPING RISER DIAGRAM
3/4" = 1' - 0"

WATERPROOFING

WATERPROOF ENTIRE WATER FEATURE TO PROVIDE A LEAKPROOF COATING ON ALL SLABS AND WALLS

COAT WITH CEMENTITOUIS ELASTOMATERIC COATING MATERIAL TO TOP OF WALL (AQUAFIN–2K/M OR EQUAL)

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
RICHARD JAMES BARINA
67685
REGISTERED
PROFESSIONAL ENGINEER

Richard J. Barina, P.E.
11/3/09

NO.	REVISION	BY	DATE

Addison. *TOWN OF ADDISON*
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

STREET FOUNTAIN DISPLAY PIPING RISER DIAGRAM

Greenscape
greenscapepump.com

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029–01	RJB	RJB	Nov. 03, 2009	PW # 2009–04	M101

BID

PARK IMPROVEMENTS – VITRUVIAN PARK

SIDEWALK WATER FEATURE COMPONENT LEGEND – PHASE I

SYM	DETAIL	DESCRIPTION	MODEL NO.	#REQ'D
1	D102–01	PRE–FABRICATED DIRECT BURIAL EQUIPMENT VAULT TO INCLUDE DISPLAY / FILTER PUMP, STRAINER, FILTER, WATER TREATMENT EQUIPMENT, ALL NECESSARY VALVING AND ELECTRICAL CONTROLS.	RDP–2–300	1
2	D101–02	3" SUCTION PENETRATION	RA/DP–884	2
3	D101–03	3/4" BUBBLER NOZZLE	RBN–075	8
4	D101–04	FRONT ACCESS SKIMMER	RPS–150–FA–WS	2
5	D101–05	VACUUM FITTING	RVF–150–WS	1
6	D101–06	EYEBALL INLET FITTING	REF–150–WS	1
7	D101–07	SIDEWALL OVERFLOW DRAIN	ROVS–300–W	1
8	D101–08	FLOOR DRAIN FITTING	RFD–300	1
9	D101–09	WATER LEVEL CONTROL SENSOR	HYDREL ELWC1	1
10	D101–10	'COPPER SILVER' IONIZER	RCUAG–25	1
11	D101–11	FREESTANDING LIGHT FIXTURE	RFL–250–E	8
12	D101–12	FOUR CORD SUBMERSIBLE JUNCTION BOX	RJB–4–100	2
13	D102–03	ANEMOMETER (FIELD VERIFY LOCATION)	WS425	1
14	D102–04	3" DISCHARGE WATERSTOP PENETRATION	RWS–300–P	2

SIDEWALK WATER FEATURE PIPING LEGEND – PHASE I

SYM	SIZE	DESCRIPTION	#REQ'D
1	3"	DISPLAY SUCTION LINE	1
2	3"	DISPLAY SUCTION LINE	2
3	3"	DISPLAY DISCHARGE LINE	1
4	3"	DISPLAY DISCHARGE LINE	2
5	2"	DISPLAY DISCHARGE MANIFOLD	1
6	3/4"	DISPLAY DISCHARGE LINE	2
7	2"	FILTER SUCTION LINE	1
8	1 1/2"	SKIMMER SUCTION LINE	2
9	1 1/2"	VACUUM LINE	1
10	2"	FILTER DISCHARGE LINE	1
11	1 1/2"	FILTER EYEBALL FITTING DISCHARGE LINE	1
12	3"	OVERFLOW LINE	1
13	3"	DRAIN LINE	1
14	3"	OVERFLOW / DRAIN LINE TO SANITARY	1

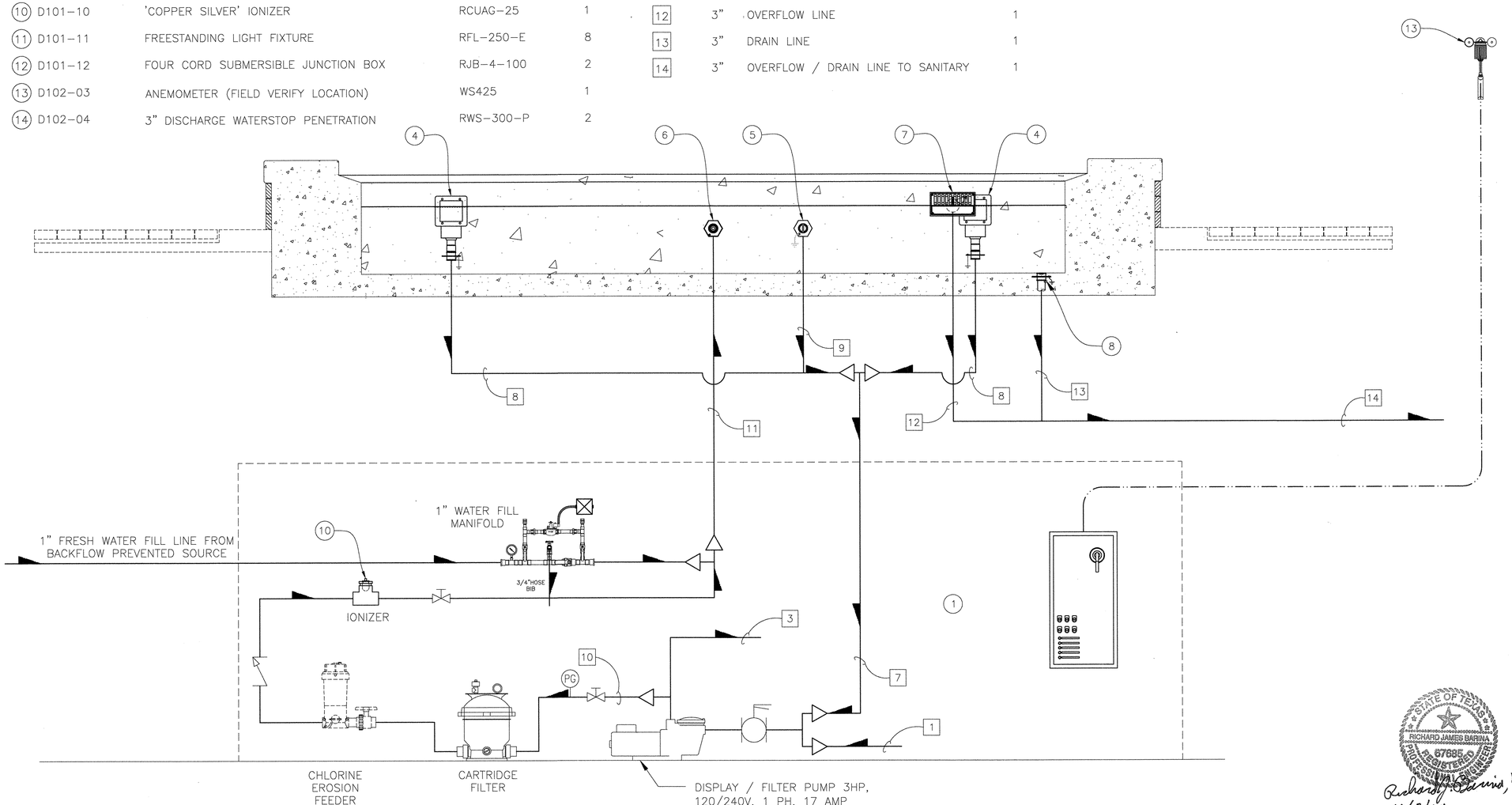
PUMP SYSTEMS, POOL FITTINGS, PIPING, AND ELECTRICAL RUNS ARE SHOWN FOR CLARITY ONLY. ACTUAL ROUTING MAY DIFFER IN THE FIELD

ELECTRICAL CONDUIT – DASH DOUBLE DOT

HYDRAULIC PIPING/LINES – CONTINUOUS

UNDERWATER CABLE – DASH DOT

FLOW DIRECTION



01 FILTER AND DRAIN PIPING RISER DIAGRAM
3/4" = 1' - 0"

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS · RICHARD JAMES BARINA · 67685 · LICENSED · PROFESSIONAL ENGINEER

Richard J. Barina, P.E.
11/3/09

NO.	REVISION	BY	DATE

Addison! TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

STREET FOUNTAIN FILTER PIPING AND DRAIN PIPING RISER DIAGRAM

Greenscape
greenscapepump.com

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029–01	RJB	RJB	Nov. 03, 2009	PW# 2009–04	M102

BID

PARK IMPROVEMENTS – VITRUVIAN PARK

SIDEWALK WATER FEATURE COMPONENT LEGEND – PHASE I

SYM	DETAIL	DESCRIPTION	MODEL NO.	#REQ'D
1	D102–01	PRE–FABRICATED DIRECT BURIAL EQUIPMENT VAULT TO INCLUDE DISPLAY / FILTER PUMP, STRAINER, FILTER, WATER TREATMENT EQUIPMENT, ALL NECESSARY VALVING AND ELECTRICAL CONTROLS.	RDP–2–300	1
2	D101–02	3" SUCTION PENETRATION	RA/DP–884	2
3	D101–03	3/4" BUBBLER NOZZLE	RBN–075	8
4	D101–04	FRONT ACCESS SKIMMER	RPS–150–FA–WS	2
5	D101–05	VACUUM FITTING	RVF–150–WS	1
6	D101–06	EYEBALL INLET FITTING	REF–150–WS	1
7	D101–07	SIDEWALL OVERFLOW DRAIN	ROVS–300–W	1
8	D101–08	FLOOR DRAIN FITTING	RFD–300	1
9	D101–09	WATER LEVEL CONTROL SENSOR	HYDREL ELWC1	1
10	D101–10	'COPPER SILVER' IONIZER	RCUAG–25	1
11	D101–11	FREESTANDING LIGHT FIXTURE	RFL–250–E	8
12	D101–12	FOUR CORD SUBMERSIBLE JUNCTION BOX	RJB–4–100	2
13	D102–03	ANEMOMETER (FIELD VERIFY LOCATION)	WS425	1
14	D102–04	3" DISCHARGE WATERSTOP PENETRATION	RWS–300–P	2

SIDEWALK WATER FEATURE PIPING LEGEND – PHASE I

SYM	SIZE	DESCRIPTION	#REQ'D
1	3"	DISPLAY SUCTION LINE	1
2	3"	DISPLAY SUCTION LINE	2
3	3"	DISPLAY DISCHARGE LINE	1
4	3"	DISPLAY DISCHARGE LINE	2
5	2"	DISPLAY DISCHARGE MANIFOLD	1
6	3/4"	DISPLAY DISCHARGE LINE	2
7	2"	FILTER SUCTION LINE	1
8	1 1/2"	SKIMMER SUCTION LINE	2
9	1 1/2"	VACUUM LINE	1
10	2"	FILTER DISCHARGE LINE	1
11	1 1/2"	FILTER EYEBALL FITTING DISCHARGE LINE	1
12	3"	OVERFLOW LINE	1
13	3"	DRAIN LINE	1
14	3"	OVERFLOW / DRAIN LINE TO SANITARY	1

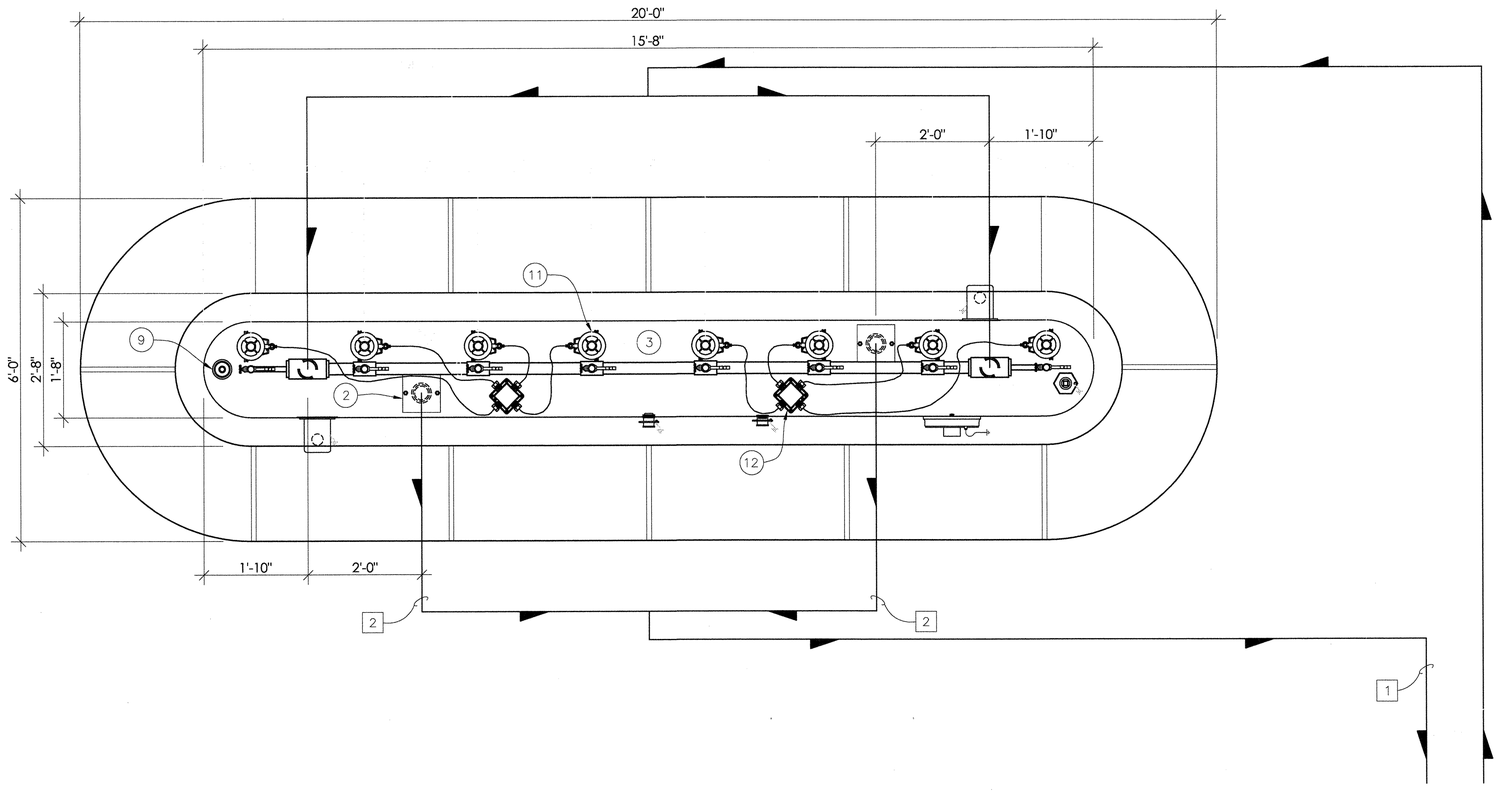
PUMP SYSTEMS, POOL FITTINGS, PIPING, AND ELECTRICAL RUNS ARE SHOWN FOR CLARITY ONLY. ACTUAL ROUTING MAY DIFFER IN THE FIELD

ELECTRICAL CONDUIT – DASH DOUBLE DOT

HYDRAULIC PIPING/LINES – CONTINUOUS

UNDERWATER CABLE – DASH DOT

FLOW DIRECTION



01 DISPLAY AND LIGHTING COMPONENT LAYOUT
1/2" = 1' - 0"

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
RICHARD JAMES BARINA
67685
REGISTERED
PROFESSIONAL ENGINEER

Richard J. Barina, P.E.
11/3/09

NO.	REVISION	BY	DATE

Addison! TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

STREET FOUNTAIN DISPLAY AND LIGHTING COMPONENT LAYOUT

Greenscape
greenscapepartnership.com

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029–01	RJB	RJB	Nov. 03, 2009	PW# 2009–04	M103

BID

PARK IMPROVEMENTS – VITRUVIAN PARK

SIDEWALK WATER FEATURE COMPONENT LEGEND – PHASE I

SYM	DETAIL	DESCRIPTION	MODEL NO.	#REQ'D
1	D102–01	PRE–FABRICATED DIRECT BURIAL EQUIPMENT VAULT TO INCLUDE DISPLAY / FILTER PUMP, STRAINER, FILTER, WATER TREATMENT EQUIPMENT, ALL NECESSARY VALVING AND ELECTRICAL CONTROLS.	RDP–2–300	1
2	D101–02	3" SUCTION PENETRATION	RA/DP–884	2
3	D101–03	3/4" BUBBLER NOZZLE	RBN–075	8
4	D101–04	FRONT ACCESS SKIMMER	RPS–150–FA–WS	2
5	D101–05	VACUUM FITTING	RVF–150–WS	1
6	D101–06	EYEBALL INLET FITTING	REF–150–WS	1
7	D101–07	SIDEWALL OVERFLOW DRAIN	ROVS–300–W	1
8	D101–08	FLOOR DRAIN FITTING	RFD–300	1
9	D101–09	WATER LEVEL CONTROL SENSOR	HYDREL ELWC1	1
10	D101–10	'COPPER SILVER' IONIZER	RCUAG–25	1
11	D101–11	FREESTANDING LIGHT FIXTURE	RFL–250–E	8
12	D101–12	FOUR CORD SUBMERSIBLE JUNCTION BOX	RJB–4–100	2
13	D102–03	ANEMOMETER (FIELD VERIFY LOCATION)	WS425	1
14	D102–04	3" DISCHARGE WATERSTOP PENETRATION	RWS–300–P	2

SIDEWALK WATER FEATURE PIPING LEGEND – PHASE I

SYM	SIZE	DESCRIPTION	#REQ'D
1	3"	DISPLAY SUCTION LINE	1
2	3"	DISPLAY SUCTION LINE	2
3	3"	DISPLAY DISCHARGE LINE	1
4	3"	DISPLAY DISCHARGE LINE	2
5	2"	DISPLAY DISCHARGE MANIFOLD	1
6	3/4"	DISPLAY DISCHARGE LINE	2
7	2"	FILTER SUCTION LINE	1
8	1 1/2"	SKIMMER SUCTION LINE	2
9	1 1/2"	VACUUM LINE	1
10	2"	FILTER DISCHARGE LINE	1
11	1 1/2"	FILTER EYEBALL FITTING DISCHARGE LINE	1
12	3"	OVERFLOW LINE	1
13	3"	DRAIN LINE	1
14	3"	OVERFLOW / DRAIN LINE TO SANITARY	1

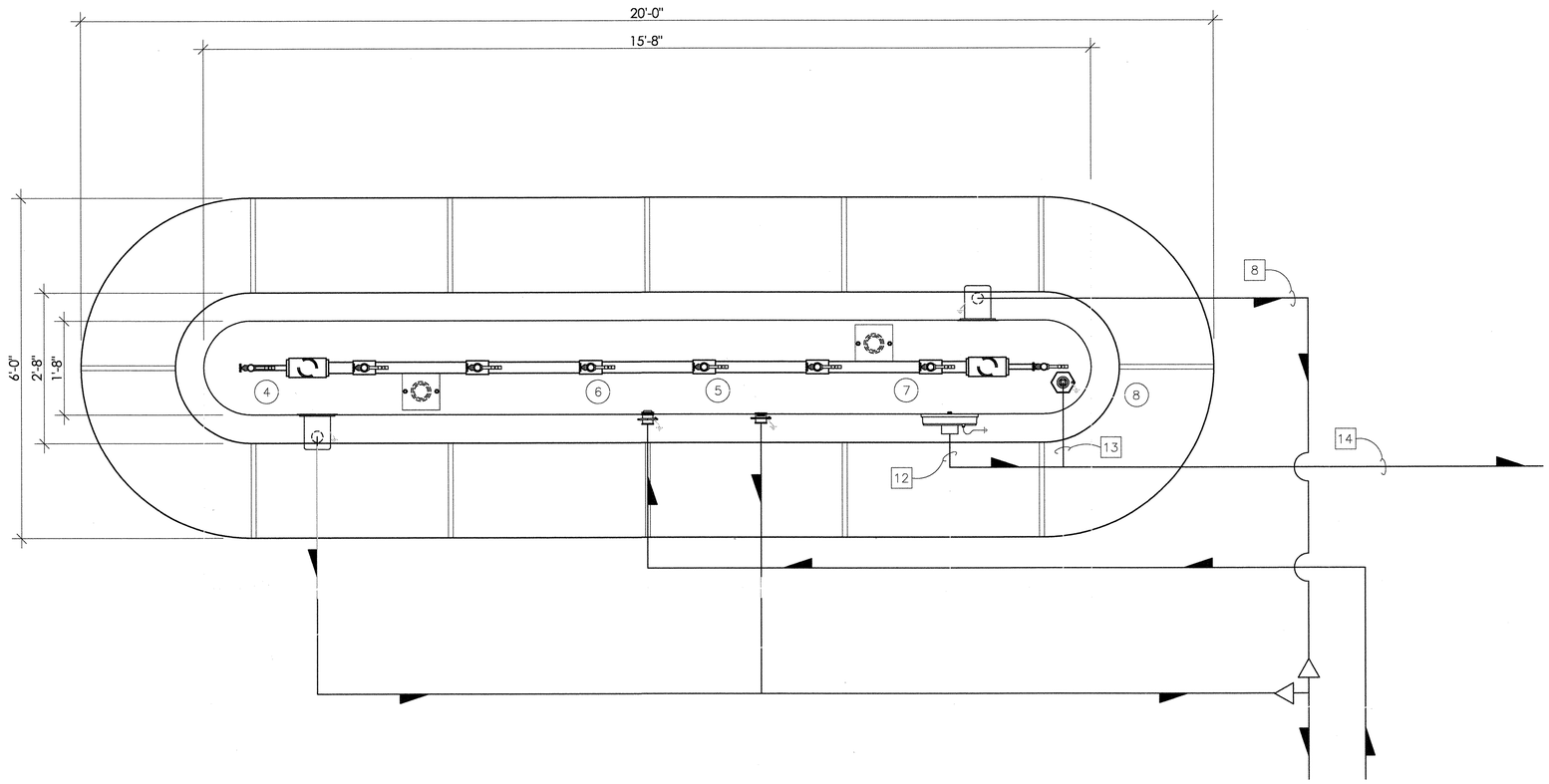
PUMP SYSTEMS, POOL FITTINGS, PIPING, AND ELECTRICAL RUNS ARE SHOWN FOR CLARITY ONLY. ACTUAL ROUTING MAY DIFFER IN THE FIELD

ELECTRICAL CONDUIT – DASH DOUBLE DOT

HYDRAULIC PIPING/LINES – CONTINUOUS

UNDERWATER CABLE – DASH DOT

FLOW DIRECTION



01 FILTER AND DRAIN COMPONENT LAYOUT
1/2" = 1' - 0"

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
RICHARD JAMES BARINA
67685
REGISTERED
PROFESSIONAL ENGINEER

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DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

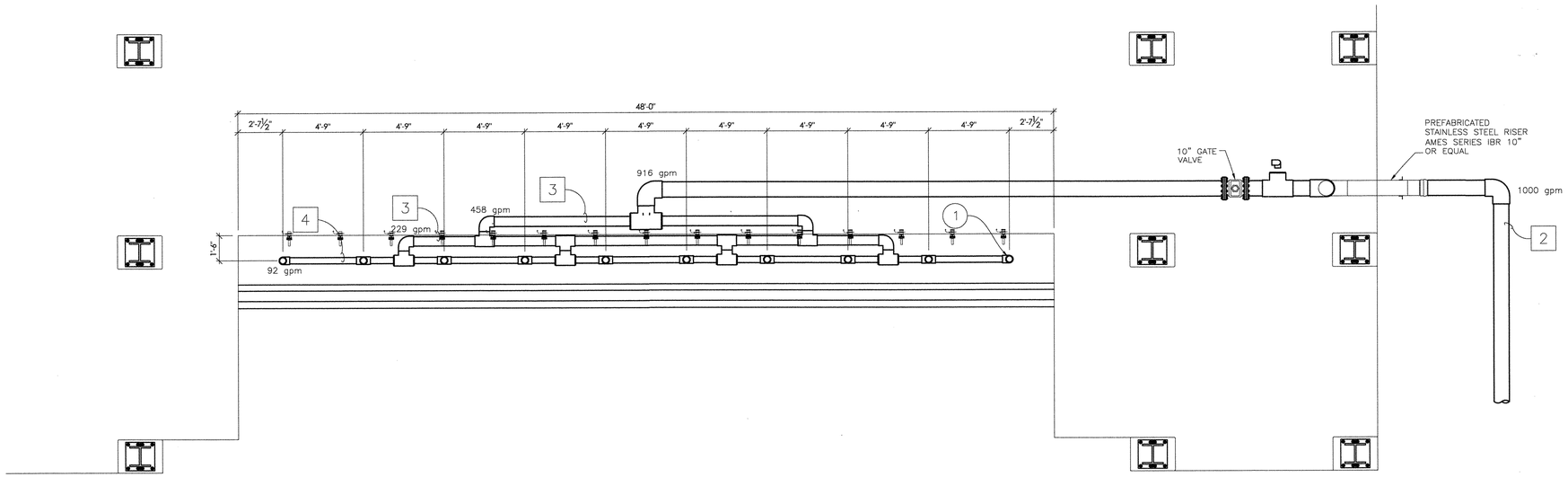
STREET FOUNTAIN FILTER AND DRAIN COMPONENT LAYOUT

Greenscape
greenscapepmg.com

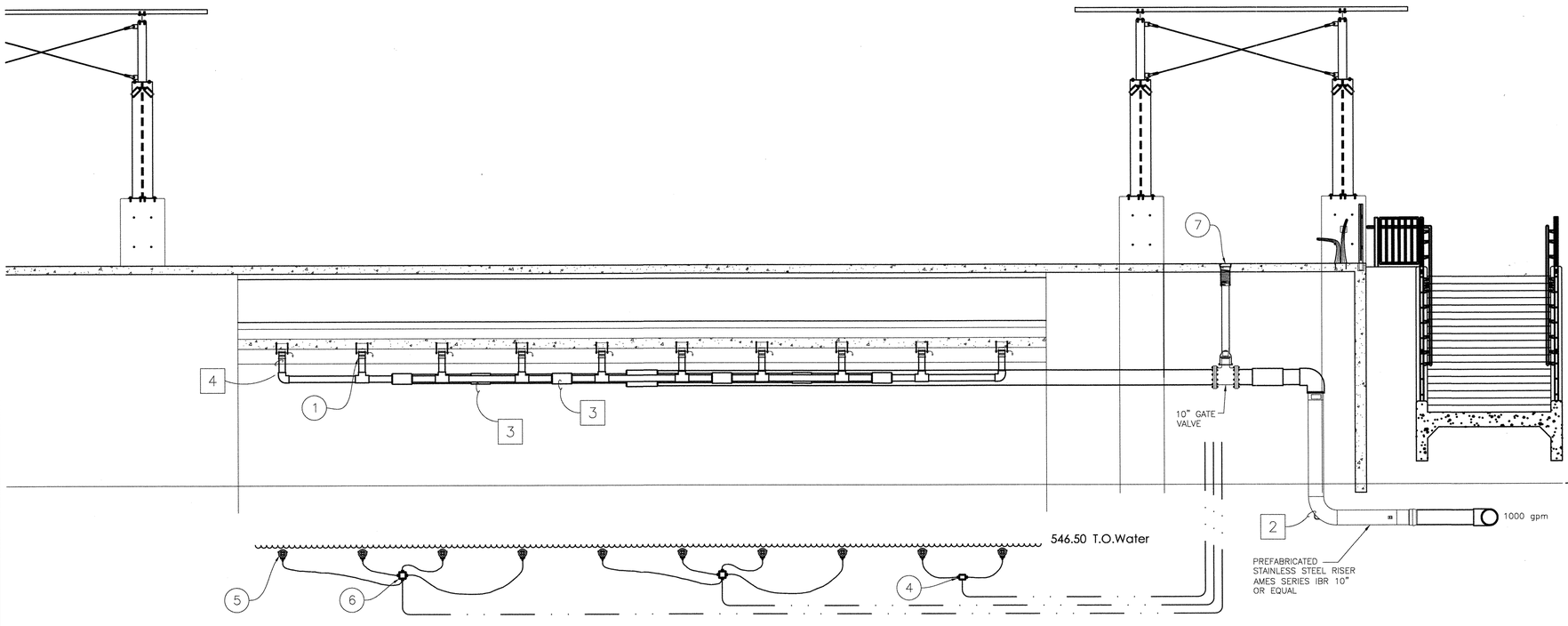
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029–01	RJB	RJB	Nov. 03, 2009	PW# 2009–04	M104

BID

PARK IMPROVEMENTS – VITRUVIAN PARK



02 **GROTTO FOUNTAIN BASIN DISCHARGE PIPING PLAN VIEW**
1/4" = 1' - 0"



01 **GROTTO FOUNTAIN BASIN DISCHARGE PIPING ELEVATIONS**
1/4" = 1' - 0"

GROTTO FEATURE COMPONENT LEGEND

SYM	DETAIL	DESCRIPTION	MODEL NO.	#REQ'D
1	D101-02	3" DISCHARGE PENETRATION	RA/DP-884	10
2	D102-05	GROTTO DISCHARGE NOZZLE	RSN-200-A	15
3	D101-11	FREESTANDING LIGHT FIXTURE	RFL-250-E	15
4	D102-06	TWO CORD SUBMERSIBLE JUNCTION BOX	RJB-2-100-C	1
5	D101-11	WALL MOUNTED LIGHT FIXTURE	RFL-250-E	10
6	D101-12	FOUR CORD SUBMERSIBLE JUNCTION BOX	RJB-4-100-C	3
7	D102-07	ADJUSTABLE VALVE BOX	3960 S	2
8	D102-11	EIGHT CORD SUBMERSIBLE JUNCTION BOX	RJB-8-100-C	2

GROTTO WATER FEATURE PIPING LEGEND

SYM	SIZE	DESCRIPTION	#REQ'D
1	12"	MAIN RECIRCULATION DISCHARGE LINE	1
2	10"	GROTTO BASIN DISCHARGE LINE	1
3	6"	GROTTO BASIN DISCHARGE MANIFOLD	1
4	4"	GROTTO BASIN DISCHARGE LINE TO DIFUSER	10
5	3"	GROTTO NOZZLE DISCHARGE LINE	1
6	2"	GROTTO NOZZLE DISCHARGE MANIFOLD	1
7	1"	GROTTO NOZZLE DISCHARGE LINE TO NOZZLE	15

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
RICHARD JAMES BARINA
67685
LICENSED
PROFESSIONAL ENGINEER

Richard J. Barina P.E.
11/3/09

NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

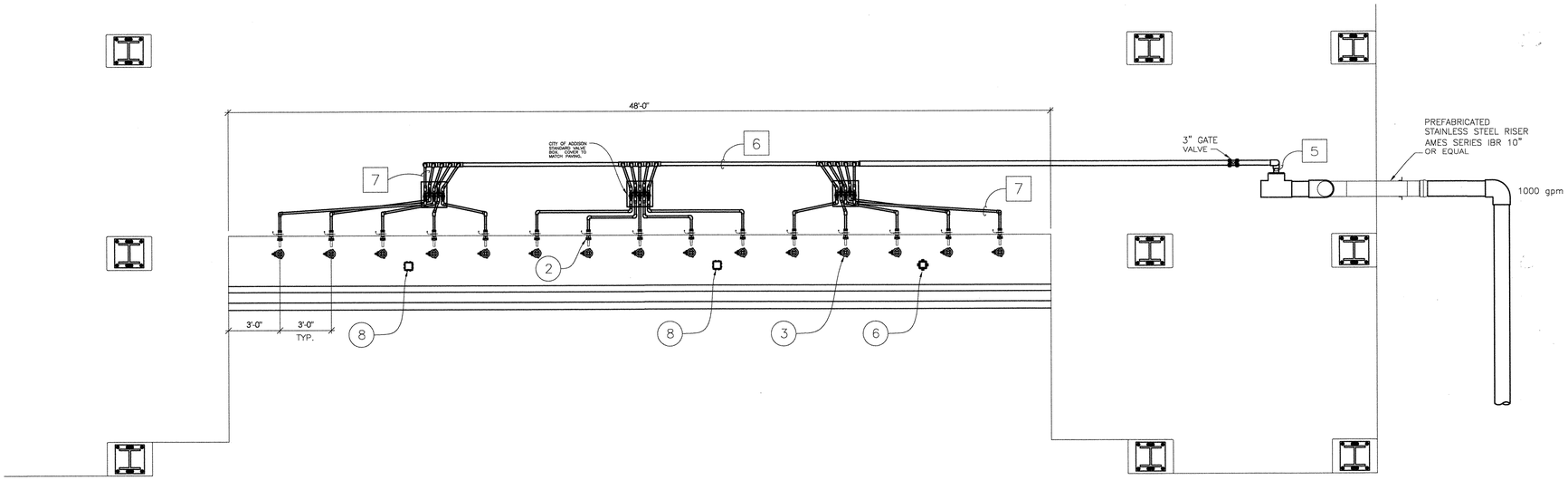
GROTTO FOUNTAIN BASIN DISCHARGE PIPING

Greenscape
greenscapepump.com

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	RJB	RJB	Nov. 03, 2009	PW# 2009-04	M105

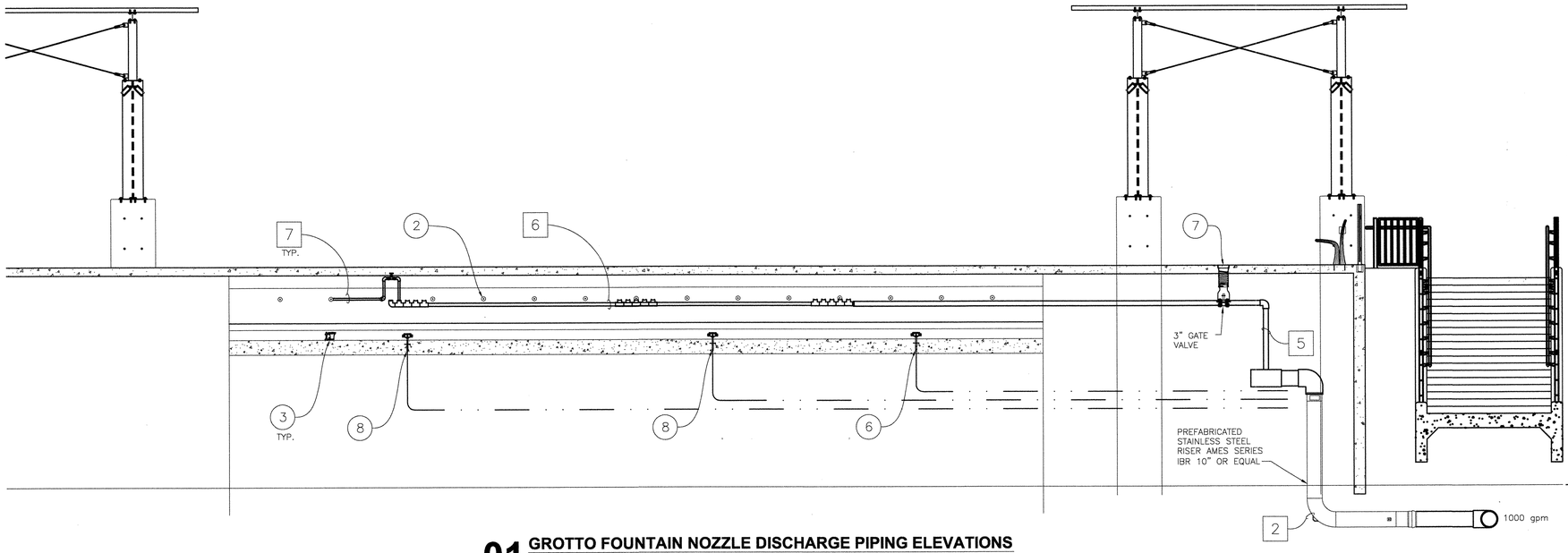
BID

PARK IMPROVEMENTS - VITRUVIAN PARK



02 GROTTO FOUNTAIN NOZZLE DISCHARGE PIPING PLAN VIEW

1/4" = 1' - 0"



01 GROTTO FOUNTAIN NOZZLE DISCHARGE PIPING ELEVATIONS

1/4" = 1' - 0"

GROTTO FEATURE COMPONENT LEGEND

SYM	DETAIL	DESCRIPTION	MODEL NO.	#REQ'D
1	D101-02	3" DISCHARGE PENETRATION	RA/DP-884	10
2	D102-05	GROTTO DISCHARGE NOZZLE	RSN-200-A	15
3	D101-11	FREESTANDING LIGHT FIXTURE	RFL-250-E	15
4	D102-06	TWO CORD SUBMERSIBLE JUNCTION BOX	RJB-2-100-C	1
5	D101-11	WALL MOUNTED LIGHT FIXTURE	RFL-250-E	10
6	D101-12	FOUR CORD SUBMERSIBLE JUNCTION BOX	RJB-4-100-C	3
7	D102-07	ADJUSTABLE VALVE BOX	3960 S	2
8	D102-11	EIGHT CORD SUBMERSIBLE JUNCTION BOX	RJB-8-100-C	2

GROTTO WATER FEATURE PIPING LEGEND

SYM	SIZE	DESCRIPTION	#REQ'D
1	12"	MAIN RECIRCULATION DISCHARGE LINE	1
2	10"	GROTTO BASIN DISCHARGE LINE	1
3	6"	GROTTO BASIN DISCHARGE MANIFOLD	1
4	4"	GROTTO BASIN DISCHARGE LINE TO DIFUSER	10
5	3"	GROTTO NOZZLE DISCHARGE LINE	1
6	2"	GROTTO NOZZLE DISCHARGE MANIFOLD	1
7	1"	GROTTO NOZZLE DISCHARGE LINE TO NOZZLE	15

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
RICHARD JAMES BARINA
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Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

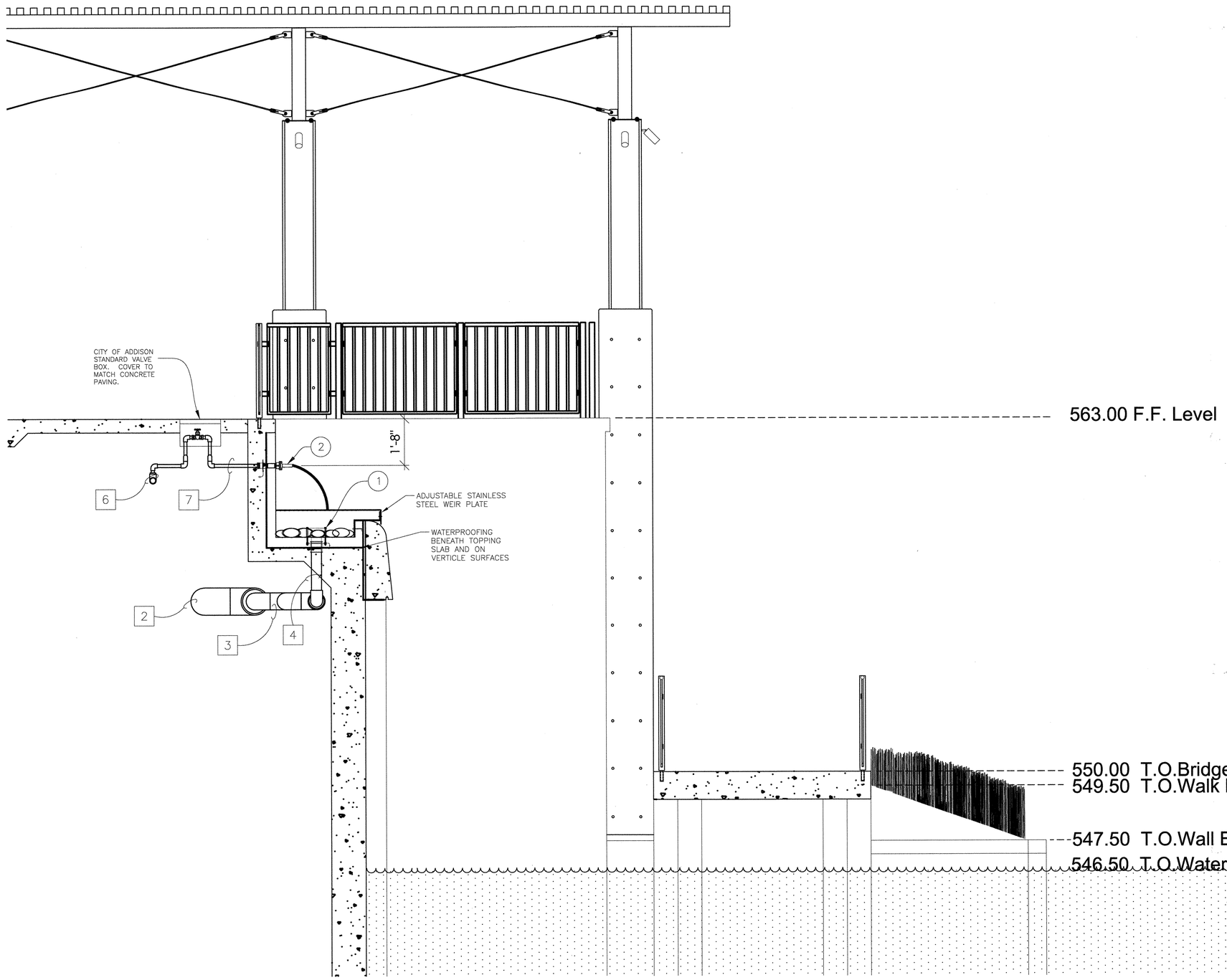
GROTTO FOUNTAIN NOZZLE DISCHARGE PIPING

Greenscape greenscapepump.com

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	RJB	RJB	Nov. 03, 2009	PW# 2009-04	M106

BID

PARK IMPROVEMENTS - VITRUVIAN PARK



01 **GROTTO FOUNTAIN SECTION**
1/2" = 1' - 0"

GROTTO FEATURE COMPONENT LEGEND

SYM	DETAIL	DESCRIPTION	MODEL NO.	#REQ'D
1	D101-02	3" DISCHARGE PENETRATION	RA/DP-884	10
2	D102-05	GROTTO DISCHARGE NOZZLE	RSN-200-A	15
3	D101-11	FREESTANDING LIGHT FIXTURE	RFL-250-E	15
4	D102-06	TWO CORD SUBMERSIBLE JUNCTION BOX	RJB-2-100-C	1
5	D101-11	WALL MOUNTED LIGHT FIXTURE	RFL-250-E	10
6	D101-12	FOUR CORD SUBMERSIBLE JUNCTION BOX	RJB-4-100-C	3
7	D102-07	ADJUSTABLE VALVE BOX	3960 S	2
8	D102-11	EIGHT CORD SUBMERSIBLE JUNCTION BOX	RJB-8-100-C	2

GROTTO WATER FEATURE PIPING LEGEND

SYM	SIZE	DESCRIPTION	#REQ'D
1	12"	MAIN RECIRCULATION DISCHARGE LINE	1
2	10"	GROTTO BASIN DISCHARGE LINE	1
3	6"	GROTTO BASIN DISCHARGE MANIFOLD	1
4	4"	GROTTO BASIN DISCHARGE LINE TO DIFUSER	10
5	3"	GROTTO NOZZLE DISCHARGE LINE	1
6	2"	GROTTO NOZZLE DISCHARGE MANIFOLD	1
7	1"	GROTTO NOZZLE DISCHARGE LINE TO NOZZLE	15

WATERPROOFING

WATERPROOF ENTIRE WATER FEATURE TO PROVIDE A LEAKPROOF COATING ON ALL SLABS AND WALLS

COAT WITH CEMENTITOUIS ELASTOMATERIC COATING MATERIAL TO TOP OF WALL (AQUAFIN-2K/M OR EQUAL)

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
RICHARD JAMES BARINA
67885
REGISTERED
PROFESSIONAL
ENGINEER

Richard J. Barina, P.E.
11/3/09

NO.	REVISION	BY	DATE

Addison. *TOWN OF ADDISON*
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

GROTTO FOUNTAIN SECTION

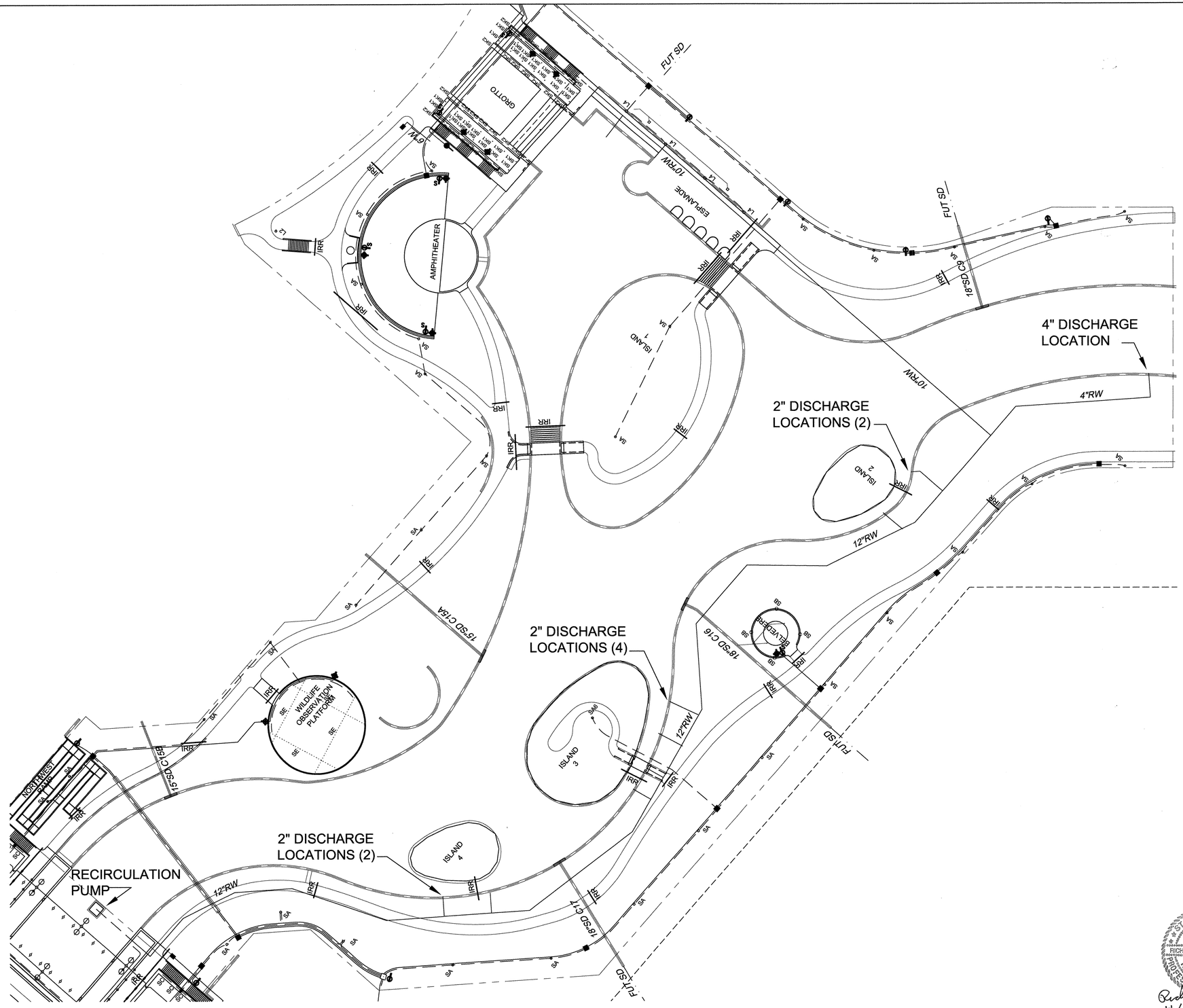
Greenscape
greenscapepump.com

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	RJB	RJB	Nov. 03, 2009	PW# 2009-04	M107

BID

PARK IMPROVEMENTS - VITRUVIAN PARK

NOTE:
SEE CIVIL DRAWINGS SHEET C401
FOR PIPE LAYOUT AND DETAILS



BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
RICHARD JAMES BARINA
67685
LICENSED PROFESSIONAL ENGINEER
Richard J. Barina, P.E.
11/3/09

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

RECIRCULATION SYSTEM LAYOUT

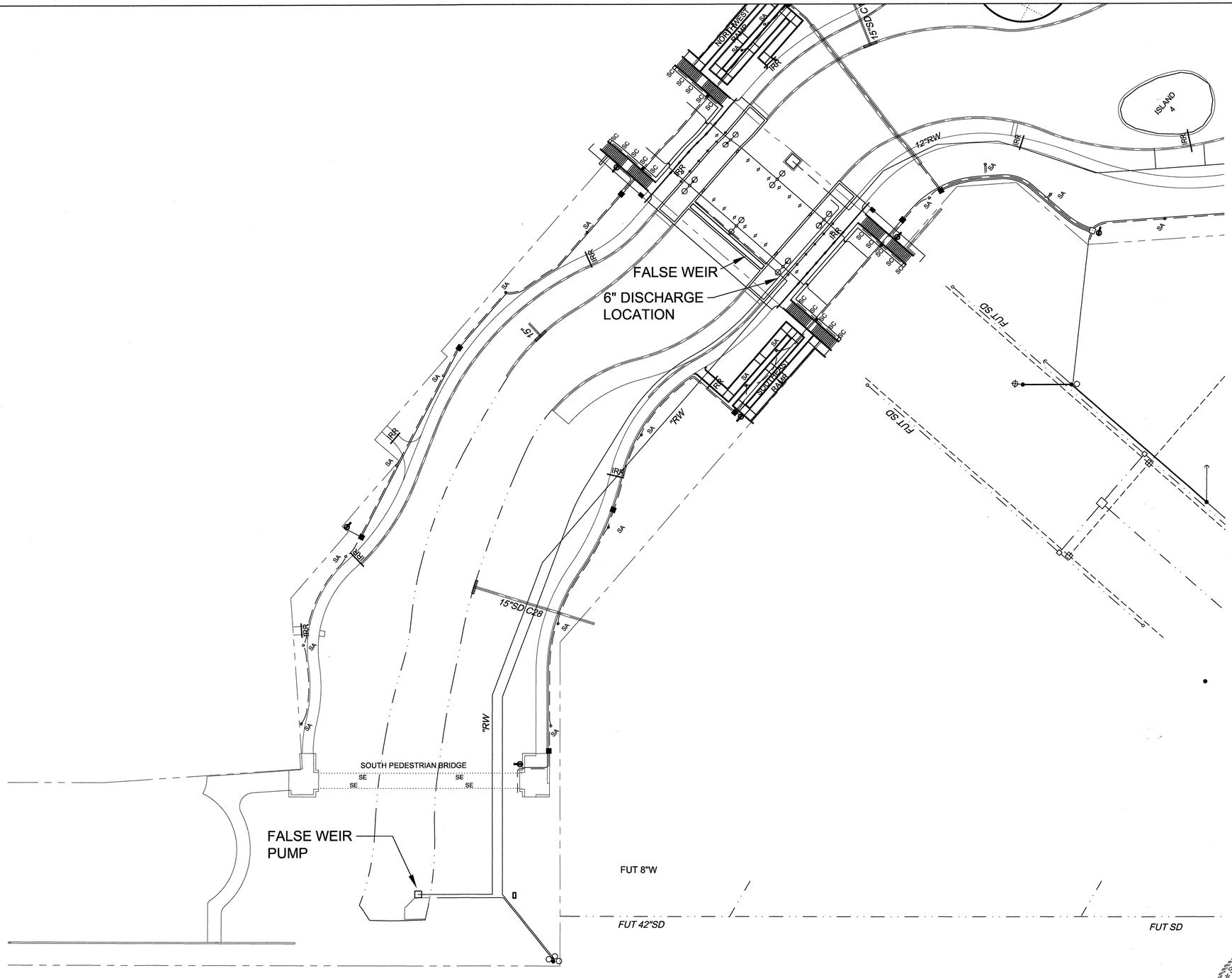
Greenscape
greenscapepump.com

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	RJB	RJB	Nov. 03, 2009	PW# 2009-04	M108

BID

PARK IMPROVEMENTS – VITRUVIAN PARK

NOTE:
SEE CIVIL DRAWINGS SHEET C401
FOR PIPE LAYOUT AND DETAILS



Not to Scale

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

LOWER RECIRCULATION SYSTEM LAYOUT

Greenscape
greenscapeinc.com

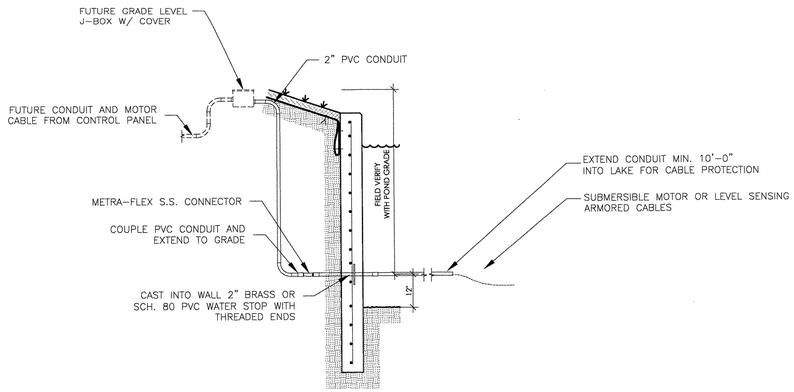
STATE OF TEXAS
RICHARD JAMES BARINA
67685
REGISTERED
PROFESSIONAL ENGINEER
DALLAS

Richard J. Barina, P.E.
11/3/09

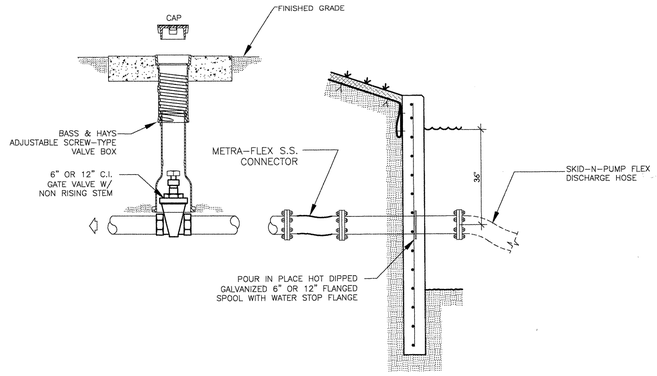
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	RJB	RJB	Nov. 03, 2009	PW# 2009-04	M109

BID

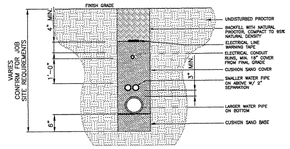
PARK IMPROVEMENTS – VITRUVIAN PARK



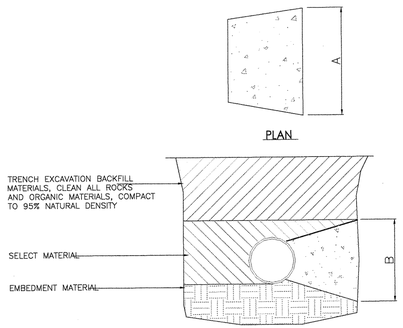
01 ELECTRICAL CONDUIT PENETRATION
Not to Scale



02 6" AND 12" PIPE PENETRATION
Not to Scale



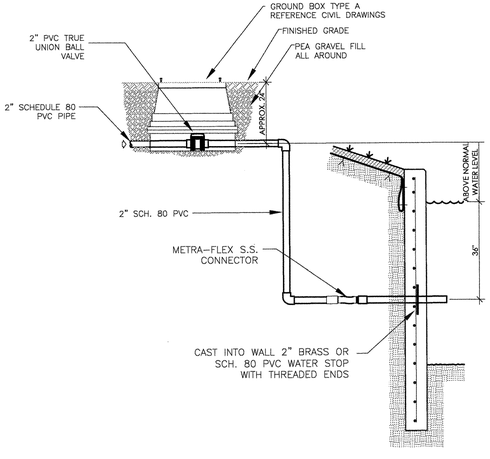
06 PIPE TRENCH INSTALLATION
Not to Scale



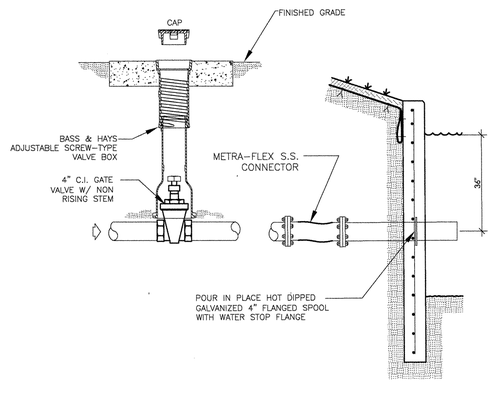
NOTE: A AND B AS REQUIRED BY BLOCKING TABLE

SECTION

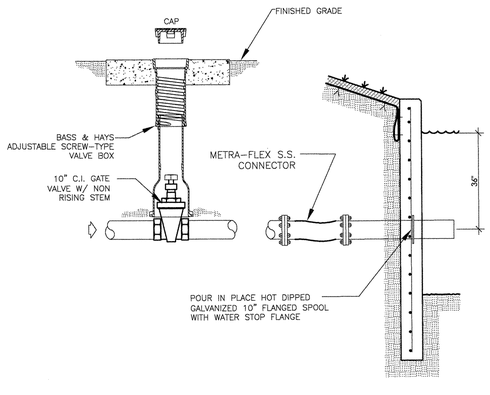
TYPICAL BLOCKING DETAIL



03 2" PIPE PENETRATION
Not to Scale



04 4" PIPE PENETRATION
Not to Scale



05 10" PIPE PENETRATION
Not to Scale

THRUST BLOCKING TABLE

THRUST BLOCK SPECIFICATIONS AND DIMENSIONS TYPICAL SOFT CLAY												
FITTING	AREA (IN^2)	TEES AND PLUGS	THRUST FORCE (LB)	AREA OF THRUST BLOCK	90° BENDS (FT)	THRUST FORCE (LB)	AREA OF THRUST BLOCK	45° BENDS AND "Y'S (FT)	THRUST FORCE (LB)	AREA OF THRUST	22.5° BENDS (FT)	THRUST FORCE (LB)	AREA OF THRUST BLOCK
(IN)		A (FT) B (FT)			A (FT) B (FT)			A (FT) B (FT)			A (FT) B (FT)		
4	13.6	1.9 1.6	498.3	1.9	2.3 1.2	888.6	2.7	1.7 0.8	480.9	1.4	1.5 0.6	245.2	0.7
6	28.9	2.9 1.5	1415.7	4.5	3.5 1.7	1999.3	6.1	2.5 1.3	1082.0	3.2	1.8 0.9	551.6	1.7
8	50.3	3.9 1.9	3813.0	7.5	4.6 2.3	3554.3	10.7	3.4 1.7	1923.6	5.8	2.4 1.2	980.4	2.9
10	78.5	4.9 2.4	5927.0	11.8	5.8 2.9	5555.6	16.9	4.2 2.1	3005.6	9.0	3.0 1.5	1532.2	4.6
12	113.1	5.8 2.9	8654.9	17.0	8.0 3.0	7997.2	24.5	5.1 2.5	4328.0	13.0	3.6 1.8	2206.4	6.6
14	153.9	7.7 3.0	7694.9	23.1	2.7 CY	10885.1	32.7	5.9 3.0	5891.0	17.7	4.2 2.1	3003.2	9.0
16	201.1	2.5 CY	10053.1	30.2	3.4 CY	14217.2	42.7	7.7 3.0	7694.5	23.1	4.9 2.4	3922.5	11.8
18	254.5	3.2 CY	12723.5	38.2	4.2 CY	17993.7	54.0	7.4 CY	9738.1	29.2	5.5 2.7	4964.4	14.9
20	314.2	3.7 CY	15708.0	47.1	5.4 CY	22214.4	66.6	9.0 CY	12022.4	36.1	6.1 3.0	6128.9	18.4
24	452.4	5.2 CY	22617.5	67.9	8.0 CY	31988.8	96.0	4.5 CY	17312.5	51.9	2.2 CY	8825.7	26.5

BLOCKING NOTES

1. THE EARTH BEARING SURFACE SHALL BE UNDISTURBED "IN SITU" MATERIAL. KEEP ALL JOINTS FREE FROM CONCRETE. THRUST BLOCK TO BE CONSTRUCTED FROM 2,000 PSI CONCRETE AND PLACED AS SHOWN IN TYPICAL THRUST BLOCK DETAIL.
2. A SAFETY FACTOR OF 1.5 HAS BEEN APPLIED TO EACH THRUST DIMENSION TO PROTECT AGAINST SURCHARGE AND PIKES IN PRESSURE.
3. DEPTH FROM GROUND SURFACE TO TOP OF BLOCKING SHALL BE GREATER THAN HEIGHT OF BLOCKING.
4. ALL METALLIC OBJECTS SHALL BE WRAPPED WITH POLYWRAP BEFORE CONCRETE IS PLACED TO PREVENT CORROSION OR BONDING OF THE CONCRETE TO THE METALLIC PART.
5. WIDTH OF THE THRUST BLOCK SHOULD BE AT LEAST TWO TIMES THE HEIGHT OF THE THRUST BLOCK.

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

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11/3/09

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TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

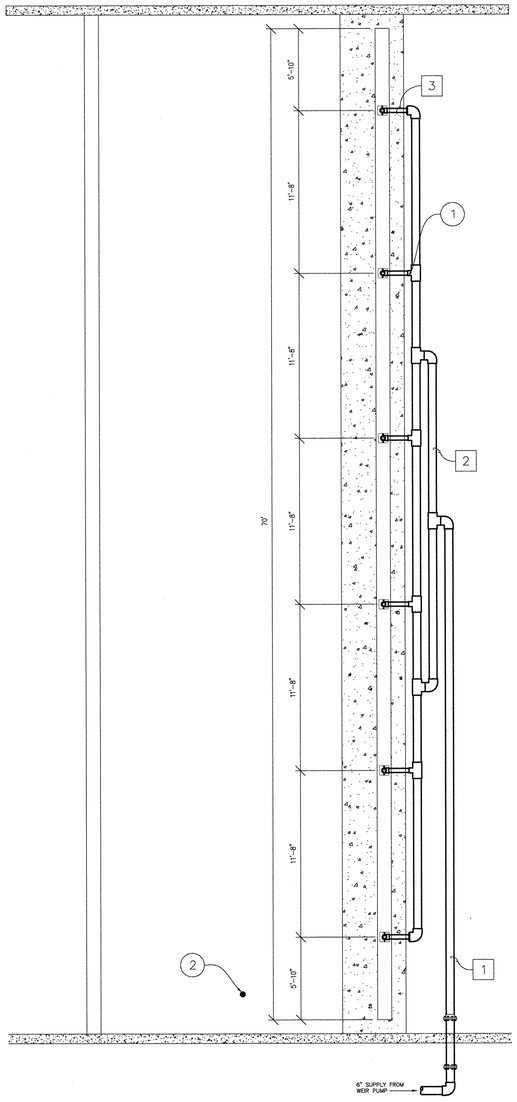
RECIRCULATION AND FALSE WEIR FEATURES WALL PENETRATIONS

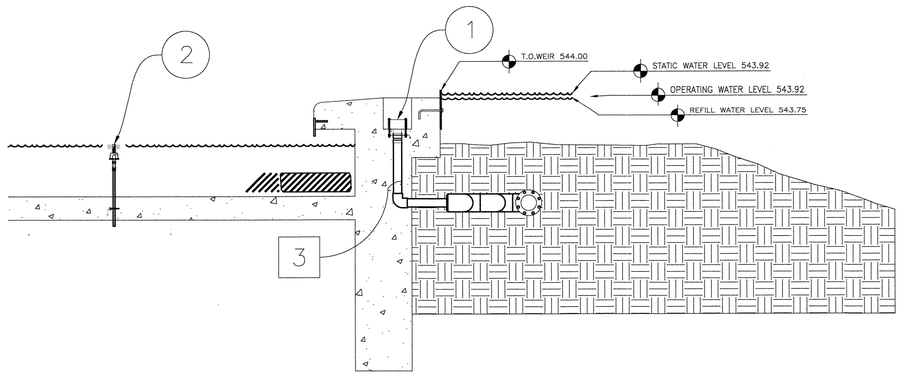
Greenscape
greenscapepump.com

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	GDR	GDR	Nov. 03, 2009	PW# 2009-04	M110

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PARK IMPROVEMENTS - VITRUVIAN PARK





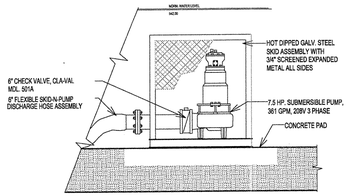
04 BRIDGE WEIR WATER LEVELS
3/8" = 1'-0"

FALSE WEIR WATER FEATURE COMPONENT LEGEND

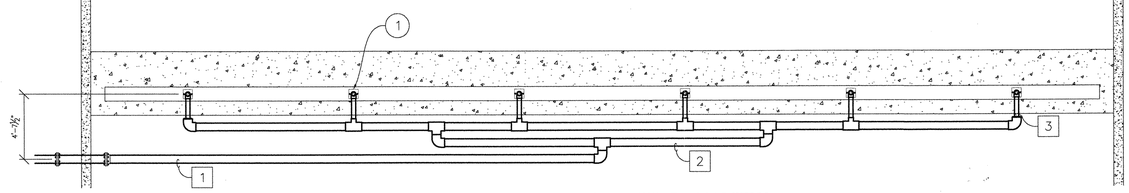
SYM	DETAIL	DESCRIPTION	MODEL NO.	#REQ'D
1	D101-02	3" SUCTION/ DISCHARGE PENETRATION	RA/DP-884	6
2	D101-09	WATER LEVEL CONTROL SENSOR	HYDREL ELWC1	1

FALSE WEIR WATER FEATURE PIPING LEGEND

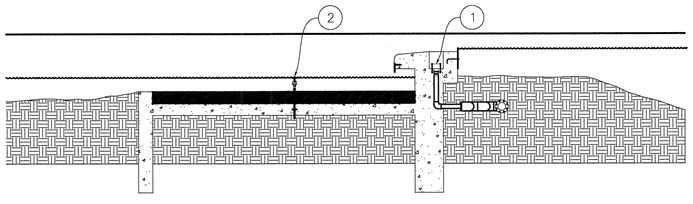
SYM	SIZE	DESCRIPTION	#REQ'D
1	6"	FALSE WEIR DISCHARGE LINE	1
2	6"	FALSE WEIR DISCHARGE MANIFOLD	1
3	3"	FALSE WEIR DISCHARGE LINE	6



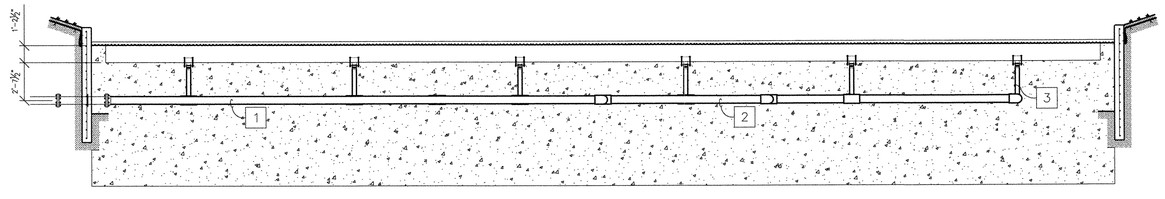
05 LOWER RECIRCULATION SUBMERSIBLE PUMP
Not to Scale



03 BRIDGE WEIR PLAN VIEW
3/16 " = 1'-0"



01 BRIDGE WEIR SECTION
3/16 " = 1'-0"



02 BRIDGE WEIR NORTH ELEVATION
3/16 " = 1'-0"

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PARK IMPROVEMENTS
VITRUVIAN PARK

FALSE WEIR DISCHARGE PIPING

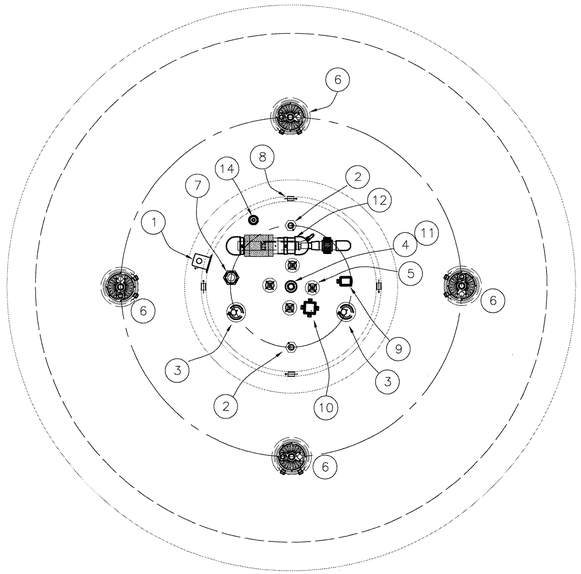
Greenscape
greenscapepump.com

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	RJB	RJB	Nov. 03, 2009	PW # 2009-04	M111
			BID		

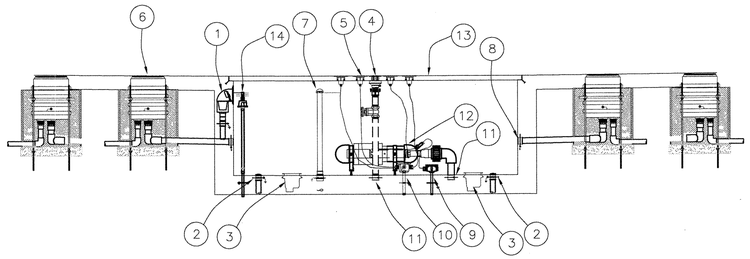
PARK IMPROVEMENTS - VITRUVIAN PARK

SOURCE WATER FEATURE COMPONENT LEGEND

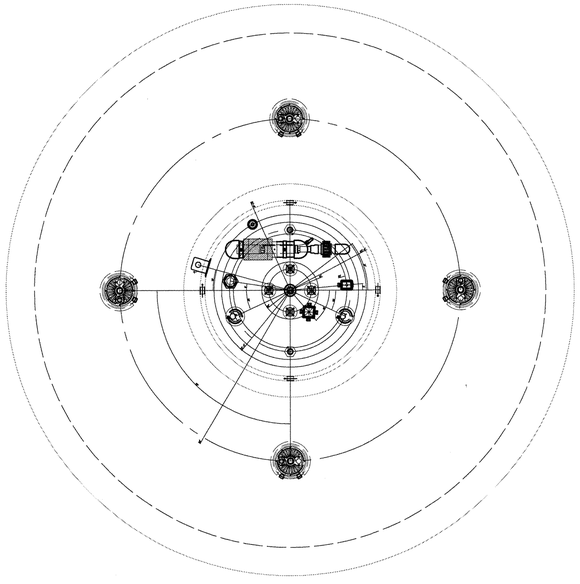
SYM	DETAIL	DESCRIPTION	MODEL NO.	#REQ'D
1	8/D102	FRONT ACCESS WALL SKIMMER	RPS-150-FA-WS	1
2	9/D102	FILTER RETURN FLOOR SWEEP FITTING	REF-150-SW	2
3	10/D102	SUCTION SUMP WITH ANTI-VORTEX PLATE	RAVS-800	2
4	1/D103	RJC-200 2" CLUSTER JET NOZZLE - 15' SPRAY HEIGHT	RJC-200-C	1
5	5/F103	RFL-33-NB-W-LED SPECIAL COMPACT 12V WET DRY FIXTURE WITH PLATE FOR GRATE MOUNTING	RFL-33-NB-W-LED	4
6	2/D103	RPAT-100-SP-JC-L2 CLUSTER JET SPACE POD	RPAT-100-SP-JC-L2	4
7	3/D103	ROVS-300-S OVERFLOW STAND PIPE WITH MAIN FLOOR DRAIN	ROVS-300-S	1
8	4/D103	RWS-200-S WALL MOUNT WATER STOP	RWS-200-S	4
9	6/D103	RJB-2-075-C BRONZE J-BOX WITH RWS-075-L WATER STOP PENETRATION	RJB-075-C	1
10	7/D103	RJB-4-1-C BRONZE J-BOX WITH RWS-100-L WATER STOP PENETRATION	RJB-100-C	1
11	8/D103	RWS-300-S FLOOR MOUNT WATER STOP PENETRATION	RWS-300-S	2
12	9/D103	CUSTOM 1 HP. SUBMERSIBLE PUMP SKID, GOULD PUMP MDL. 60GS15	CUSTOM	1
13	NA	ADA COMPLIANT GRATE, FIBERGLASS OR OTHER NON CORROSIVE MATERIAL	CUSTOM	1
14	10/D103	CONDUIT MOUNT LEVEL SENSOR	ELWC-1	1
15	2/D102	RDP-1-WTS UNDERGROUND FIBERGLASS VAULT	RDP-1-WTS	1
16	D104	INTERACTIVE FEATURE EQUIPMENT VAULT: RDP-3 SERIES TO INCLUDE POD DISPLAY PUMP, FILTER PUMP, SELF FLUSHING SAND FILTER, DUAL POINT CHEMICAL CONTROLLER, RUV-ES-10 UV TREATMENT UNIT, STRAINERS, ALL NECESSARY VALVING, CONTROLS, FORCED AIR VENTILATION, ACCESS HATCH, LADDER WITH SAFETY UP POST, SUMP PUMP WITH BACKUP, VAULT LIGHTING,	RDP- SERIES	1



01 INTERACTIVE FEATURE EQUIPMENT PLAN
3/8" = 1'-0"



02 INTERACTIVE FEATURE EQUIPMENT SECTION DIAGRAM
3/8" = 1'-0"



03 INTERACTIVE FEATURE EQUIPMENT DIMENSIONAL LAYOUT
3/8" = 1'-0"

BM #1 REF. ELEVATION = 559.47
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DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

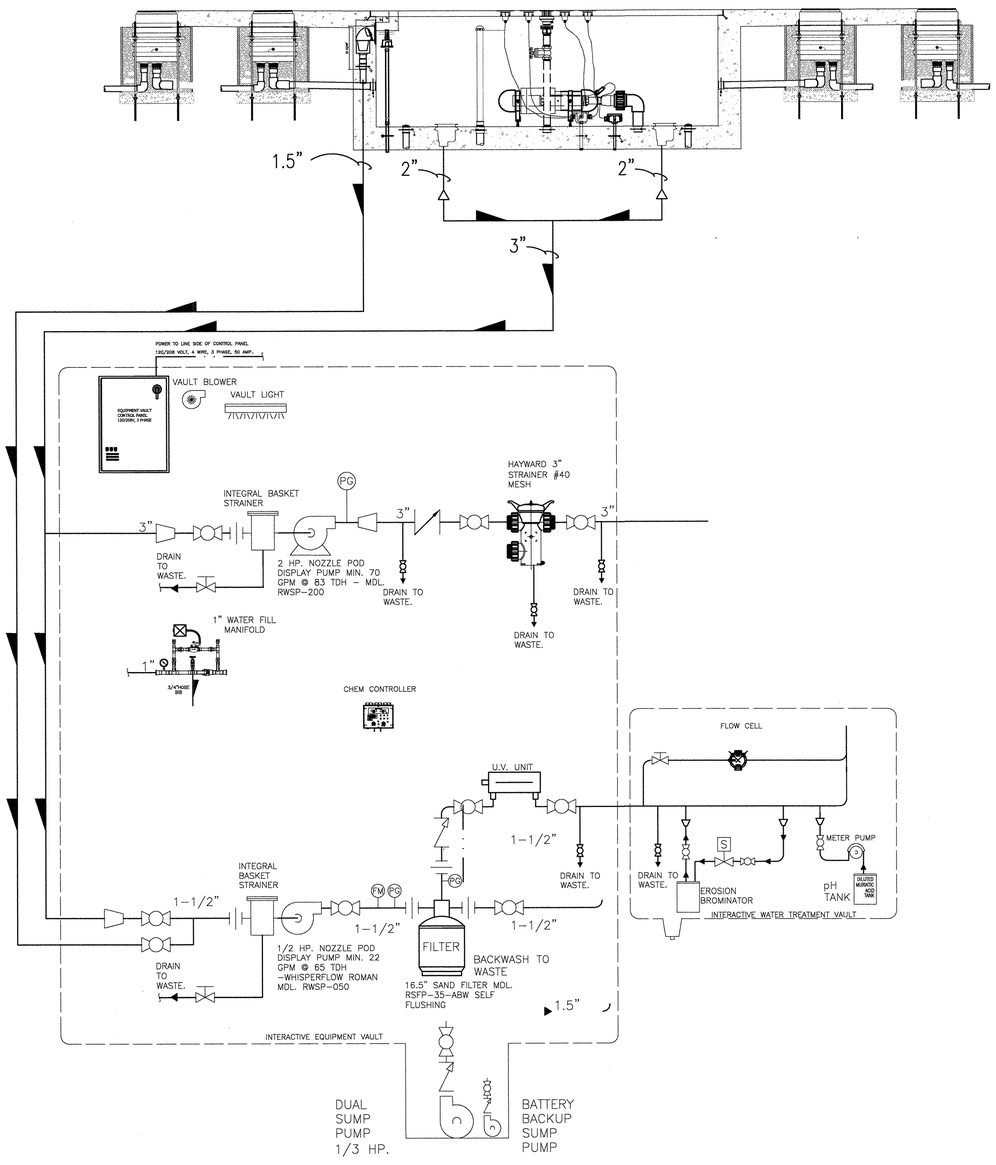
INTERACTIVE FEATURE EQUIPMENT PLAN

Greenscape
greenscapepump.com

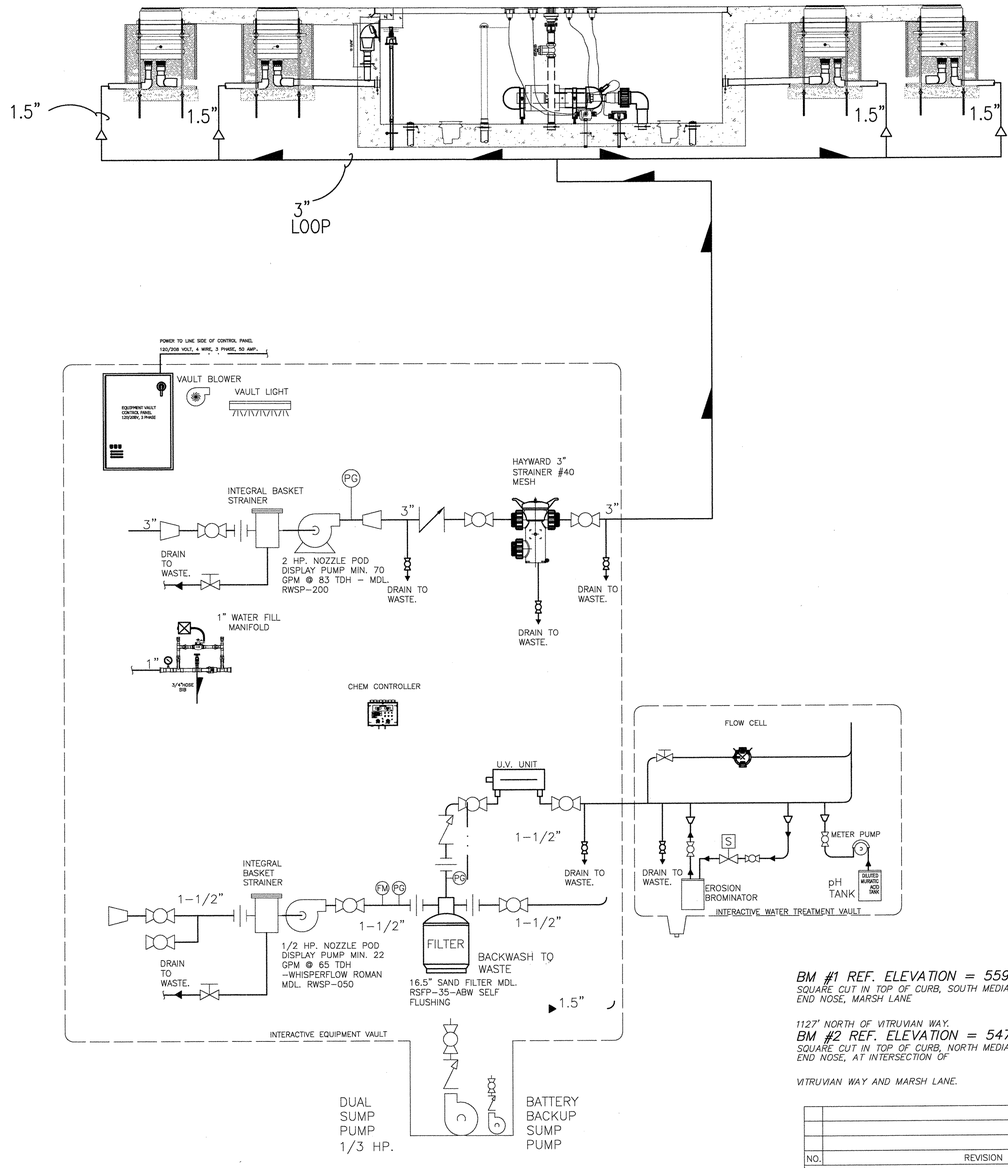
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	GDR	GDR	Nov. 03, 2009	PW# 2009-04	M112

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PARK IMPROVEMENTS – VITRUVIAN PARK



01 **INTERACTIVE FEATURE SUCTION PIPE DIAGRAM**
Not to Scale



02 **INTERACTIVE FEATURE POD DISCHARGE PIPE DIAGRAM**
Not to Scale

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PARK IMPROVEMENTS
VITRUVIAN PARK

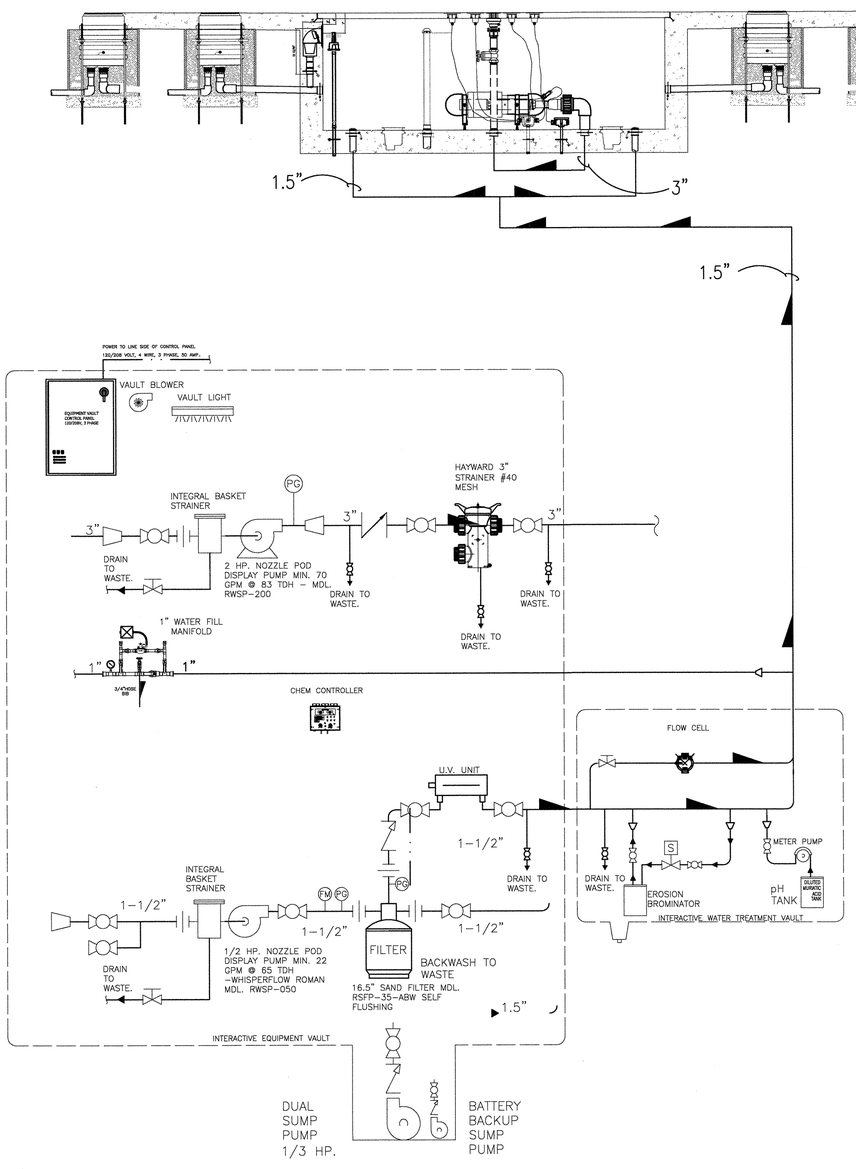
INTERACTIVE FEATURE PIPING DIAGRAM SHEET 1

Greenscape
greenscapepump.com

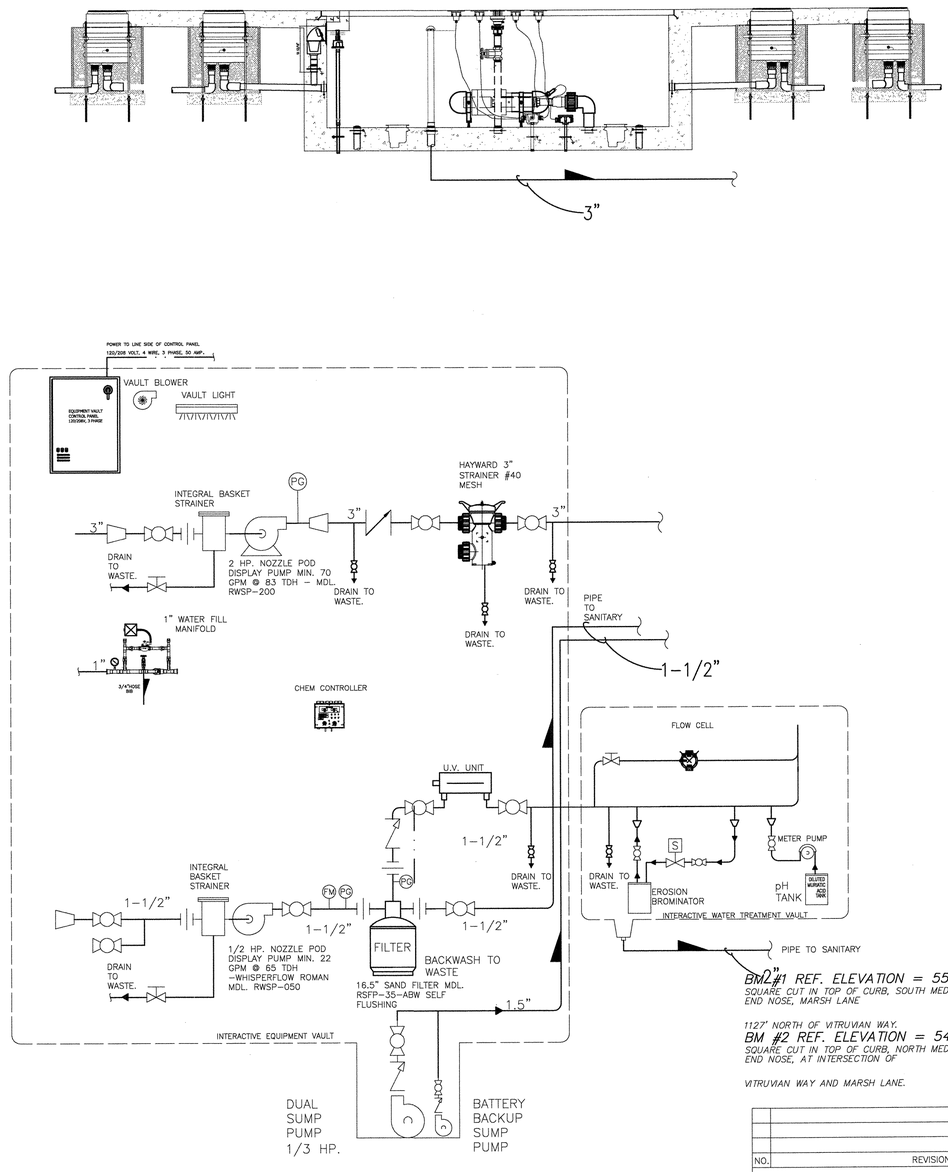
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	GDR	GDR	Nov. 03, 2009	PW# 2009-04	M113

BID

PARK IMPROVEMENTS - VITRUVIAN PARK



01 **INTERACTIVE FEATURE FILTER DISCHARGE AND CENTER NOZZLE DISCHARGE PIPE DIAGRAM**
Not to Scale



02 **INTERACTIVE FEATURE DRAIN PIPE DIAGRAM**
Not to Scale

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PARK IMPROVEMENTS
VITRUVIAN PARK

INTERACTIVE FEATURE PIPING DIAGRAM SHEET 2

Greenscape
greenscapesprinklers.com

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	GDR	GDR	Nov. 03, 2009	PW# 2009-04	M114

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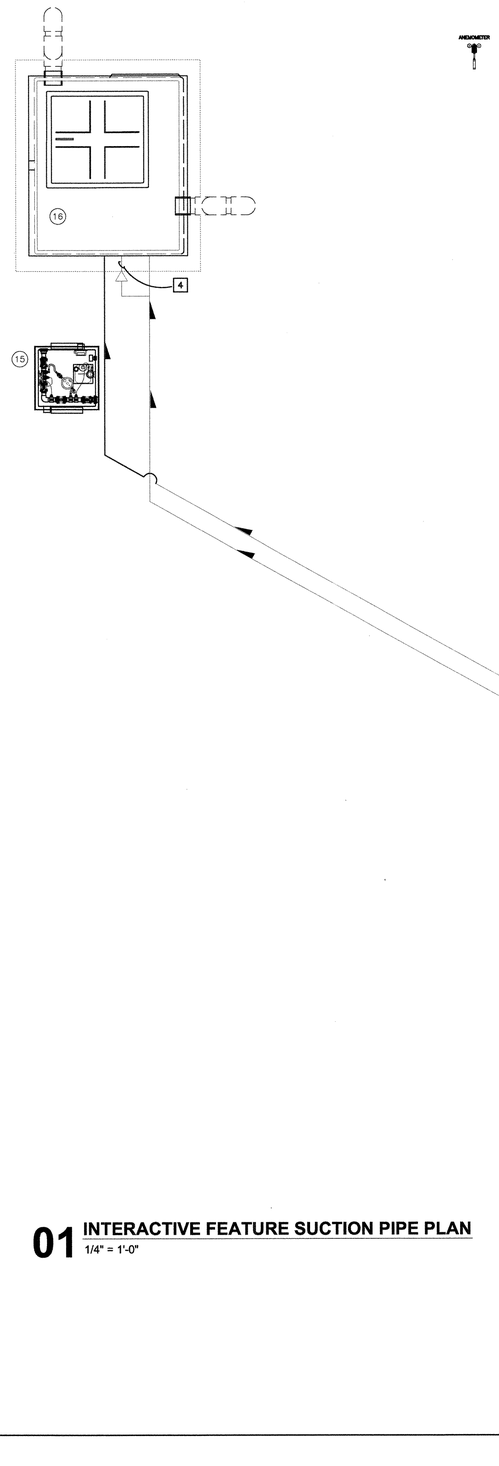
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PARK IMPROVEMENTS – VITRUVIAN PARK

SOURCE WATER FEATURE COMPONENT LEGEND

SYM	DETAIL	DESCRIPTION	MODEL NO.	#REQ'D
1	8/D102	FRONT ACCESS WALL SKIMMER	RPS-150-FA-WS	1
2	9/D102	FILTER RETURN FLOOR SWEEP FITTING	REF-150-SW	2
3	10/D102	SUCTION SUMP WITH ANTI-VORTEX PLATE	RAVS-800	2
4	1/D103	RJC-200 2" CLUSTER JET NOZZLE - 15' SPRAY HEIGHT	RJC-200-C	1
5	5/F103	RFL-33-NB-W-LED SPECIAL COMPACT 12V WET DRY FIXTURE WITH PLATE FOR GRATE MOUNTING	RFL-33-NB-W-LED	4
6	2/D103	RPAT-100-SP-JC-L2 CLUSTER JET SPACE POD	RPAT-100-SP-JC-L2	4
7	3/D103	ROVS-300-S OVERFLOW STAND PIPE WITH MAIN FLOOR DRAIN	ROVS-300-S	1
8	4/D103	RWS-200-S WALL MOUNT WATER STOP	RWS-200-S	4
9	6/D103	RJB-2-075-C BRONZE J-BOX WITH RWS-075-L WATER STOP PENETRATION	RJB-075-C	1
10	7/D103	RJB-4-1-C BRONZE J-BOX WITH RWS-100-L WATER STOP PENETRATION	RJB-100-C	1
11	8/D103	RWS-300-S FLOOR MOUNT WATER STOP PENETRATION	RWS-300-S	2
12	9/D103	CUSTOM 1 HP. SUBMERSIBLE PUMP SKID, GOULD PUMP MDL. 60GS15	CUSTOM	1
13	NA	ADA COMPLIANT GRATE, FIBERGLASS OR OTHER NON CORROSIVE MATERIAL	CUSTOM	1
14	10/D103	CONDUIT MOUNT LEVEL SENSOR	ELWC-1	1
15	2/D102	RDP-1-WTS UNDERGROUND FIBERGLASS VAULT	RDP-1-WTS	1
16	D104	INTERACTIVE FEATURE EQUIPMENT VAULT: RDP-3 SERIES TO INCLUDE POD DISPLAY PUMP, FILTER PUMP, SELF FLUSHING SAND FILTER, DUAL POINT CHEMICAL CONTROLLER, RUV-ES-10 UV TREATMENT UNIT, STRAINERS, ALL NECESSARY VALVING, CONTROLS, FORCED AIR VENTILATION, ACCESS HATCH, LADDER WITH SAFETY UP POST, SUMP PUMP WITH BACKUP, VAULT LIGHTING,	RDP- SERIES	1



PUMP SYSTEM, POOL FITTING, PIPING, AND ELECTRICAL RUNS ARE SHOWN FOR CLARITY ONLY. INSTALLER TO COORDINATE WITH OTHER UTILITIES. RUN PIPE ROUTE AS EFFICIENTLY AS POSSIBLE WITH AS FEW ELBOWS AND FITTINGS AS POSSIBLE

ELECTRICAL CONDUIT – DASH DOUBLE DOT

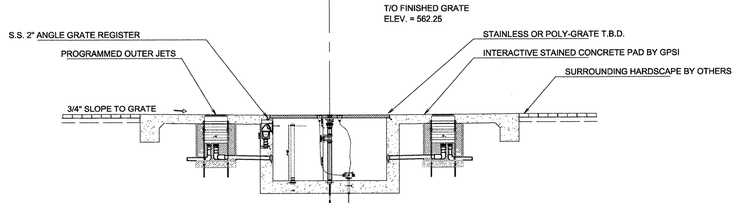
HYDRAULIC PIPING/LINES – CONTINUOUS

UNDERWATER CABLE – DASH DOT

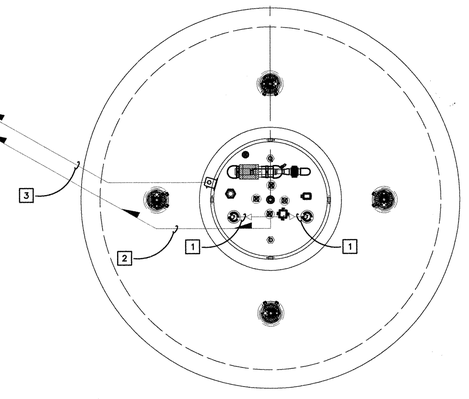
FLOW DIRECTION

WATER FEATURE PIPING LEGEND

SYM	SIZE	DESCRIPTION
1	2"	SCH. 80 PVC SUCTION LINE AT INTAKE SUMP
2	3"	SCH. 80 PVC MAIN SUCTION LINE TO VAULT
3	1.5"	SCH. 80 PVC SUCTION LINE FROM SKIMMER
4	1.5"	SCH. 80 PVC FILTER SUCTION FROM MAIN SUCTION LINE
5	1.5"	SCH. 80 PVC SUPPLY TO SPACE PODS
6	3"	SCH. 80 PVC SPACE POD JET MAIN LOOP
7	3"	SCH. 80 PVC MAIN DISCHARGE FROM VAULT
8	3"	SCH. 80 PVC CENTER NOZZLE DISCHARGE PIPE FROM SUBMERSIBLE PUMP
9	1.5"	SCH. 80 PVC TREATMENT VAULT TO DISCHARGE SWEEPS RETURN
10	1.5"	SCH. 80 PVC FILTER DISCHARGE TO TREATMENT VAULT
11	3"	SCH. 80 PVC OVERFLOW AND MAIN DRAIN TO SANITARY
12	2"	SCH. 80 PVC SPACE POD DRAIN BACK TO BASIN
13	2"	SCH. 80 PVC SUMP PUMP DISCH. TO SANITARY
14	1.5"	SCH. 80 PVC FILTER FLUSH TO SANITARY
15	1"	COPPER CLEAN WATER SUPPLY TO VAULT, MAX. 50 PSI. ON INCOMING LINE



INTERACTIVE SECTION



INTERACTIVE PLAN

BM #1 REF. ELEVATION = 559.47
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PARK IMPROVEMENTS
VITRUVIAN PARK

INTERACTIVE FEATURE SUCTION PIPE PLAN

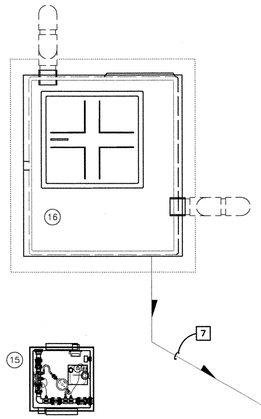
Greenscape
greenscapepump.com

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	GDR	GDR	Nov. 03, 2009	PW# 2009-04	M115

BID

01 INTERACTIVE FEATURE SUCTION PIPE PLAN
1/4" = 1'-0"

PARK IMPROVEMENTS – VITRUVIAN PARK

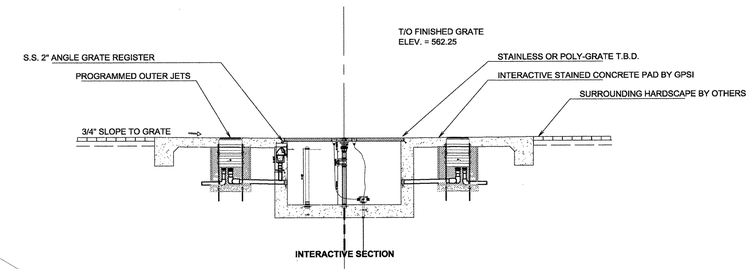


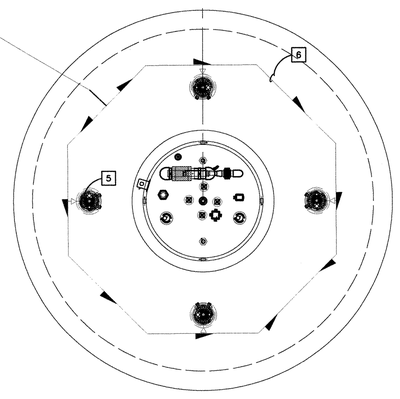
SOURCE WATER FEATURE COMPONENT LEGEND

SYM	DETAIL	DESCRIPTION	MODEL NO.	#REQ'D
1	8/D102	FRONT ACCESS WALL SKIMMER	RPS-150-FA-WS	1
2	9/D102	FILTER RETURN FLOOR SWEEP FITTING	REF-150-SW	2
3	10/D102	SUCTION SUMP WITH ANTI-VORTEX PLATE	RAVS-800	2
4	1/D103	RJC-200 2" CLUSTER JET NOZZLE - 15' SPRAY HEIGHT	RJC-200-C	1
5	5/F103	RFL-33-NB-W-LED SPECIAL COMPACT 12V WET DRY FIXTURE WITH PLATE FOR GRATE MOUNTING	RFL-33-NB-W-LED	4
6	2/D103	RPAT-100-SP-JC-L2 CLUSTER JET SPACE POD	RPAT-100-SP-JC-L2	4
7	3/D103	ROVS-300-S OVERFLOW STAND PIPE WITH MAIN FLOOR DRAIN	ROVS-300-S	1
8	4/D103	RWS-200-S WALL MOUNT WATER STOP	RWS-200-S	4
9	6/D103	RJB-2-075-C BRONZE J-BOX WITH RWS-075-L WATER STOP PENETRATION	RJB-075-C	1
10	7/D103	RJB-4-1-C BRONZE J-BOX WITH RWS-100-L WATER STOP PENETRATION	RJB-100-C	1
11	8/D103	RWS-300-S FLOOR MOUNT WATER STOP PENETRATION	RWS-300-S	2
12	9/D103	CUSTOM 1 HP. SUBMERSIBLE PUMP SKID, GOULD PUMP MDL. 60GS15	CUSTOM	1
13	NA	ADA COMPLIANT GRATE, FIBERGLASS OR OTHER NON CORROSIVE MATERIAL	CUSTOM	1
14	10/D103	CONDUIT MOUNT LEVEL SENSOR	ELWC-1	1
15	2/D102	RDP-1-WTS UNDERGROUND FIBERGLASS VAULT	RDP-1-WTS	1
16	D104	INTERACTIVE FEATURE EQUIPMENT VAULT: RDP-3 SERIES TO INCLUDE POD DISPLAY PUMP, FILTER PUMP, SELF FLUSHING SAND FILTER, DUAL POINT CHEMICAL CONTROLLER, RUV-ES-10 UV TREATMENT UNIT, STRAINERS, ALL NECESSARY VALVING, CONTROLS, FORCED AIR VENTILATION, ACCESS HATCH, LADDER WITH SAFETY UP POST, SUMP PUMP WITH BACKUP, VAULT LIGHTING,	RDP- SERIES	1

WATER FEATURE PIPING LEGEND

SYM	SIZE	DESCRIPTION
1	2"	SCH. 80 PVC SUCTION LINE AT INTAKE SUMP
2	3"	SCH. 80 PVC MAIN SUCTION LINE TO VAULT
3	1.5"	SCH. 80 PVC SUCTION LINE FROM SKIMMER
4	1.5"	SCH. 80 PVC FILTER SUCTION FROM MAIN SUCTION LINE
5	1.5"	SCH. 80 PVC SUPPLY TO SPACE PODS
6	3"	SCH. 80 PVC SPACE POD JET MAIN LOOP
7	3"	SCH. 80 PVC MAIN DISCHARGE FROM VAULT
8	3"	SCH. 80 PVC CENTER NOZZLE DISCHARGE PIPE FROM SUBMERSIBLE PUMP
9	1.5"	SCH. 80 PVC TREATMENT VAULT TO DISCHARGE SWEEPS RETURN
10	1.5"	SCH. 80 PVC FILTER DISCHARGE TO TREATMENT VAULT
11	3"	SCH. 80 PVC OVERFLOW AND MAIN DRAIN TO SANITARY
12	2"	SCH. 80 PVC SPACE POD DRAIN BACK TO BASIN
13	2"	SCH. 80 PVC SUMP PUMP DISCH. TO SANITARY
14	1.5"	SCH. 80 PVC FILTER FLUSH TO SANITARY
15	1"	COPPER CLEAN WATER SUPPLY TO VAULT, MAX. 50 PSI. ON INCOMING LINE





01 **INTERACTIVE FEATURE POD DISCHARGE PIPE PLAN**
1/4" = 1'-0"

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE

1127' NORTH OF VITRUVIAN WAY.
BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF

VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
RICHARD JAMES BARINA
67685
LICENSED PROFESSIONAL ENGINEER

Richard J. Barina, P.E.
11/3/09

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

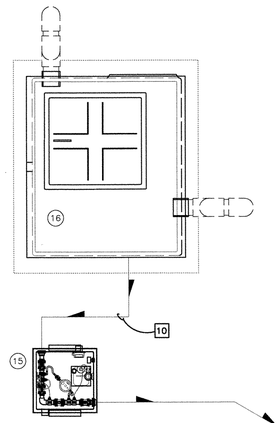
INTERACTIVE FEATURE POD DISCHARGE PIPE PLAN

Greenscape
greenscapepump.com

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	GDR	GDR	Nov. 03, 2009	PW# 2009-04	M116

BID

PARK IMPROVEMENTS - VITRUVIAN PARK

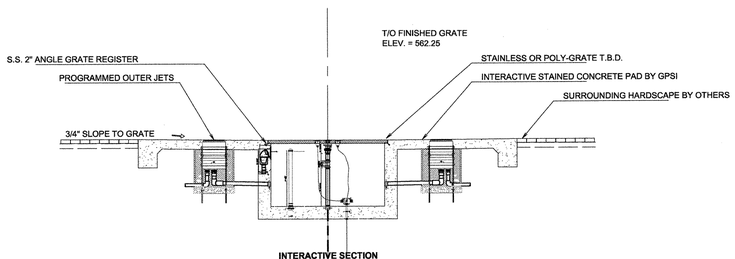


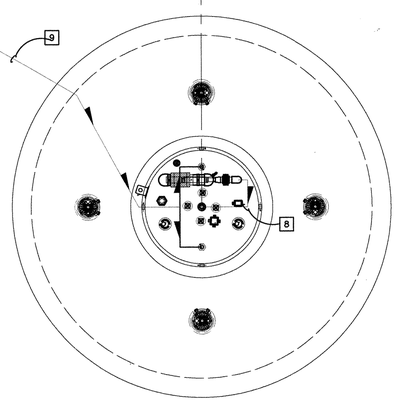
SOURCE WATER FEATURE COMPONENT LEGEND

SYM	DETAIL	DESCRIPTION	MODEL NO.	#REQ'D
1	8/D102	FRONT ACCESS WALL SKIMMER	RPS-150-FA-WS	1
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4	1/D103	RJC-200 2" CLUSTER JET NOZZLE - 15' SPRAY HEIGHT	RJC-200-C	1
5	5/F103	RFL-33-NB-W-LED SPECIAL COMPACT 12V WET DRY FIXTURE WITH PLATE FOR GRATE MOUNTING	RFL-33-NB-W-LED	4
6	2/D103	RPAT-100-SP-JC-L2 CLUSTER JET SPACE POD	RPAT-100-SP-JC-L2	4
7	3/D103	ROVS-300-S OVERFLOW STAND PIPE WITH MAIN FLOOR DRAIN	ROVS-300-S	1
8	4/D103	RWS-200-S WALL MOUNT WATER STOP	RWS-200-S	4
9	6/D103	RJB-2-075-C BRONZE J-BOX WITH RWS-075-L WATER STOP PENETRATION	RJB-075-C	1
10	7/D103	RJB-4-1-C BRONZE J-BOX WITH RWS-100-L WATER STOP PENETRATION	RJB-100-C	1
11	8/D103	RWS-300-S FLOOR MOUNT WATER STOP PENETRATION	RWS-300-S	2
12	9/D103	CUSTOM 1 HP. SUBMERSIBLE PUMP SKID, GOULD PUMP MDL. 60GS15	CUSTOM	1
13	NA	ADA COMPLIANT GRATE, FIBERGLASS OR OTHER NON CORROSIVE MATERIAL	CUSTOM	1
14	10/D103	CONDUIT MOUNT LEVEL SENSOR	ELWC-1	1
15	2/D102	RDP-1-WTS UNDERGROUND FIBERGLASS VAULT	RDP-1-WTS	1
16	D104	INTERACTIVE FEATURE EQUIPMENT VAULT: RDP-3 SERIES TO INCLUDE POD DISPLAY PUMP, FILTER PUMP, SELF FLUSHING SAND FILTER, DUAL POINT CHEMICAL CONTROLLER, RUV-ES-10 UV TREATMENT UNIT, STRAINERS, ALL NECESSARY VALVING, CONTROLS, FORCED AIR VENTILATION, ACCESS HATCH, LADDER WITH SAFETY UP POST, SUMP PUMP WITH BACKUP, VAULT LIGHTING,	RDP- SERIES	1

WATER FEATURE PIPING LEGEND

SYM	SIZE	DESCRIPTION
1	2"	SCH. 80 PVC SUCTION LINE AT INTAKE SUMP
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13	2"	SCH. 80 PVC SUMP PUMP DISCH. TO SANITARY
14	1.5"	SCH. 80 PVC FILTER FLUSH TO SANITARY
15	1"	COPPER CLEAN WATER SUPPLY TO VAULT, MAX. 50 PSI. ON INCOMING LINE





01 INTERACTIVE FEATURE FILTER AND CENTER NOZZLE DISCHARGE PIPE PLAN

1/4" = 1'-0"

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE

1127' NORTH OF VITRUVIAN WAY.
BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF

VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
RICHARD JAMES BARINA
67685
REGISTERED
PROFESSIONAL ENGINEER

Richard J. Barina, P.E.
11/3/09

NO.	REVISION	BY	DATE

Addison! TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

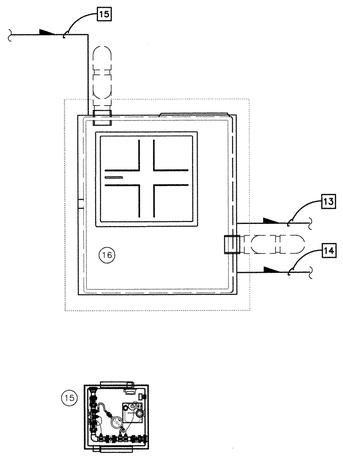
INTERACTIVE FEATURE FILTER / CENTER NOZZLE PIPE PLAN

Greenscape
greenscapepump.com

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	GDR	GDR	Nov. 03, 2009	PW# 2009-04	M117

BID

PARK IMPROVEMENTS - VITRUVIAN PARK



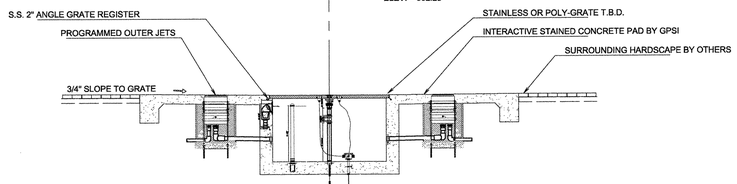
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SOURCE WATER FEATURE COMPONENT LEGEND

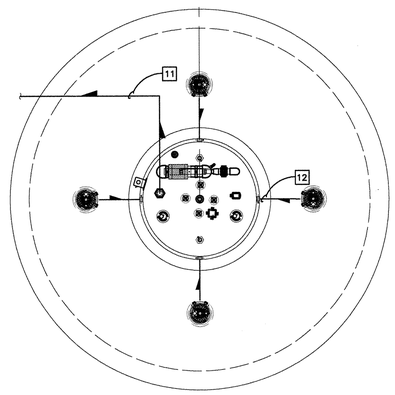
SYM	DETAIL	DESCRIPTION	MODEL NO.	#REQ'D
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4	1/D103	RJC-200 2" CLUSTER JET NOZZLE - 15' SPRAY HEIGHT	RJC-200-C	1
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6	2/D103	RPAT-100-SP-JC-L2 CLUSTER JET SPACE POD	RPAT-100-SP-JC-L2	4
7	3/D103	ROVS-300-S OVERFLOW STAND PIPE WITH MAIN FLOOR DRAIN	ROVS-300-S	1
8	4/D103	RWS-200-S WALL MOUNT WATER STOP	RWS-200-S	4
9	6/D103	RJB-2-075-C BRONZE J-BOX WITH RWS-075-L WATER STOP PENETRATION	RJB-075-C	1
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11	8/D103	RWS-300-S FLOOR MOUNT WATER STOP PENETRATION	RWS-300-S	2
12	9/D103	CUSTOM 1 HP. SUBMERSIBLE PUMP SKID, GOULD PUMP MDL. 60GS15	CUSTOM	1
13	NA	ADA COMPLIANT GRATE, FIBERGLASS OR OTHER NON CORROSIVE MATERIAL	CUSTOM	1
14	10/D103	CONDUIT MOUNT LEVEL SENSOR	ELWC-1	1
15	2/D102	RDP-1-WTS UNDERGROUND FIBERGLASS VAULT	RDP-1-WTS	1
16	D104	INTERACTIVE FEATURE EQUIPMENT VAULT: RDP-3 SERIES TO INCLUDE POD DISPLAY PUMP, FILTER PUMP, SELF FLUSHING SAND FILTER, DUAL POINT CHEMICAL CONTROLLER, RUV-ES-10 UV TREATMENT UNIT, STRAINERS, ALL NECESSARY VALVING, CONTROLS, FORCED AIR VENTILATION, ACCESS HATCH, LADDER WITH SAFETY UP POST, SUMP PUMP WITH BACKUP, VAULT LIGHTING,	RDP- SERIES	1

WATER FEATURE PIPING LEGEND

SYM	SIZE	DESCRIPTION
1	2"	SCH. 80 PVC SUCTION LINE AT INTAKE SUMP
2	3"	SCH. 80 PVC MAIN SUCTION LINE TO VAULT
3	1.5"	SCH. 80 PVC SUCTION LINE FROM SKIMMER
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14	1.5"	SCH. 80 PVC FILTER FLUSH TO SANITARY
15	1"	COPPER CLEAN WATER SUPPLY TO VAULT, MAX. 50 PSI. ON INCOMING LINE



INTERACTIVE SECTION



INTERACTIVE PLAN

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE

1127' NORTH OF VITRUVIAN WAY.
BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF

VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
RICHARD JAMES BARINA
67685
REGISTERED
PROFESSIONAL ENGINEER

Richard J. Barina, P.E.
11/3/09

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

INTERACTIVE FEATURE DRAIN PIPE PLAN

Greenscape
greenscapepump.com

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	GDR	GDR	Nov. 03, 2009	PW# 2009-04	M118

BID

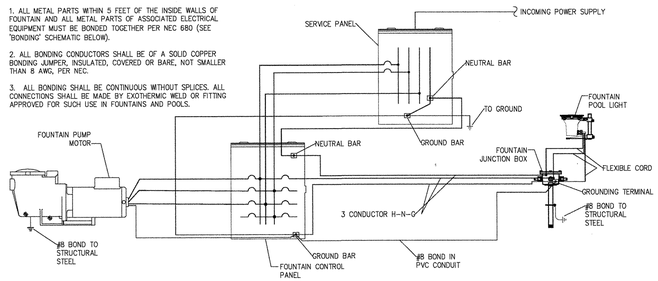
01 INTERACTIVE FEATURE DRAIN PIPE PLAN
1/4" = 1'-0"

PARK IMPROVEMENTS - VITRUVIAN PARK

1. ALL METAL PARTS WITHIN 5 FEET OF THE INSIDE WALLS OF FOUNTAIN AND ALL METAL PARTS OF ASSOCIATED ELECTRICAL EQUIPMENT MUST BE BONDED TOGETHER PER NEC 680 (SEE 'BONDING' SCHEMATIC BELOW).

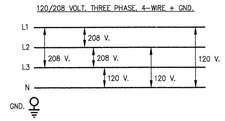
2. ALL BONDING CONDUCTORS SHALL BE OF A SOLID COPPER BONDING JUMPER, INSULATED, COVERED OR BARE, NOT SMALLER THAN 8 AWG, PER NEC.

3. ALL BONDING SHALL BE CONTINUOUS WITHOUT SPLICES. ALL CONNECTIONS SHALL BE MADE BY EXOTHERMIC WELD OR FITTING APPROVED FOR SUCH USE IN FOUNTAINS AND POOLS.



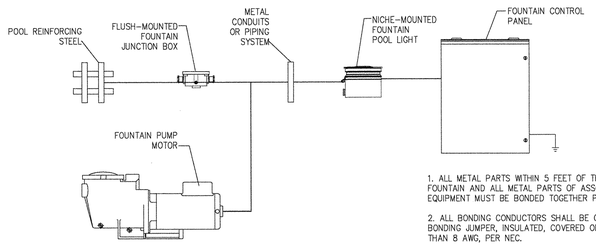
TYPICAL FOUNTAIN "GROUNDING" SCHEMATIC

SCALE: NONE



ELECTRICAL POWER SUPPLY

SCALE: NONE



1. ALL METAL PARTS WITHIN 5 FEET OF THE INSIDE WALLS OF FOUNTAIN AND ALL METAL PARTS OF ASSOCIATED ELECTRICAL EQUIPMENT MUST BE BONDED TOGETHER PER NEC 680.

2. ALL BONDING CONDUCTORS SHALL BE OF A SOLID COPPER BONDING JUMPER, INSULATED, COVERED OR BARE, NOT SMALLER THAN 8 AWG, PER NEC.

3. ALL BONDING SHALL BE CONTINUOUS WITHOUT SPLICES. ALL CONNECTIONS SHALL BE MADE BY EXOTHERMIC WELD OR FITTING APPROVED FOR SUCH USE IN FOUNTAINS AND POOLS.

TYPICAL FOUNTAIN "BONDING" SCHEMATIC

SCALE: NONE

EXCERPT FROM 2008 EDITION OF NEC ARTICLE 680 PERTAINING TO DECORATIVE FOUNTAINS

V. Fountains

680.50 General. The provisions of Part I and Part V of Article 680 shall apply to all permanently installed fountains as defined in 680.2. Fountains that have water common to a swimming or wading pool shall additionally comply with the requirements in Part II of Article 680. Part V does not cover self-contained, portable fountains. Portable fountains shall comply with Parts II and III of Article 422.

680.51 Luminaries (Lighting Fixtures), Submersible Pumps, and Other Submersible Equipment.
(A) Ground-Fault Circuit Interrupter. Fountain equipment, unless listed for operation at 15 volts or less and supplied by a transformer that complies with 680.23(A)(2), shall be protected by a ground-fault circuit interrupter.
(B) Operating Voltage. No luminaries (lighting fixtures) shall be installed for operation on supply circuits over 150 volts between conductors. Submersible pumps and other submersible equipment shall operate at 300 volts or less between conductors.
(C) Luminaire (Lighting Fixture) Lenses. Luminaries (lighting fixtures) shall be installed with the top of the luminarie (fixture) lens below the normal water level of the fountain unless listed for above-water locations. A luminarie (lighting fixture) facing upward shall have the lens adequately guarded to prevent contact by any person.
(D) Overheating Protection. Electrical equipment that depends on submersion for safe operation shall be protected against overheating by a low-water cutoff or other approved means when not submerged.
(E) Wiring. Equipment shall be equipped with provisions for threaded conduit entries or be provided with a suitable flexible cord. The maximum length of each exposed cord in the fountain shall be limited to 3.0 m (10 ft). Cords extending beyond the fountain perimeter shall be enclosed in approved wiring enclosures. Metal parts of equipment in contact with water shall be of brass or other approved corrosion-resistant metal.
(F) Servicing. All equipment shall be removable from the water for relamping or normal maintenance. Luminaries (fixtures) shall not be permanently embedded into the fountain structure such that the water level must be reduced or the fountain drained for relamping, maintenance, or inspection.
(G) Stability. Equipment shall be inherently stable or be securely fastened in place.

680.52 Junction Boxes and Other Enclosures.
(A) General. Junction boxes and other enclosures used for other than underwater installation shall comply with 680.24.
(B) Underwater Junction Boxes and Other Underwater Enclosures. Junction boxes and other underwater enclosures shall meet the requirements of 680.52(B)(1) and (B)(2).
(1) Construction.
(a) Underwater enclosures shall be equipped with provisions for threaded conduit entries or compression glands or seals for cord entry.
(b) Underwater enclosures shall be submersible, and made of copper, brass, or other approved corrosion resistant material.
(2) Installation. Underwater enclosure installations shall comply with (a) and (b).
(a) Underwater enclosures shall be filled with an approved potting compound to prevent the entry of moisture.
(b) Underwater enclosures shall be firmly attached to the supports or directly to the fountain surface and bonded as required. Where the junction box is supported only by the conduit, the conduit shall be of copper, brass, or other approved corrosion-resistant metal. Where the box is fed by nonmetallic conduit, it shall have additional supports and fasteners of copper, brass, or other approved corrosion resistant material.
FPN: See 314.23 for support of enclosures.

V. Fountains (Cont.)

680.53 Bonding. All metal piping systems associated with the fountain shall be bonded to the equipment grounding conductor of the branch circuit supplying the fountain.
FPN: See 250.122 for sizing of these conductors.

680.54 Grounding. The following equipment shall be grounded:
(1) All electrical equipment located within the fountain or within 1.5 m (5 ft) of the inside wall of the fountain
(2) All electrical equipment associated with the Recirculating system of the fountain
(3) Panel boards that are not part of the service equipment and that supply any electrical equipment associated with the fountain.

680.55 Methods of Grounding.
(A) Applied Provisions. The provisions of 680.21(A), 680.23(B)(3), 680.23(F)(1) and (2), 680.24(F), and 680.25 shall apply.
(B) Supplied by a Flexible Cord. Electrical equipment that is supplied by a flexible cord shall have all exposed non-current-carrying metal parts grounded by an insulated copper equipment-grounding conductor that is an integral part of this cord. The grounding conductor shall be connected to a grounding terminal in the supply junction box, transformer enclosure, or other enclosure.

680.56 Cord-and-Plug-Connected Equipment.
(A) Ground-Fault Circuit Interrupter. All electrical equipment, including power-supply cords, shall be protected by ground-fault circuit interrupters.
(B) Cord Type. Flexible cord immersed in or exposed to water shall be of a type for extra-hard usage, as designated in Table 400.4 and shall be a listed type with a "W" suffix.
(C) Sealing. The end of the flexible cord jacket and the flexible cord conductor termination within equipment shall be covered with, or encapsulated in, a suitable potting compound to prevent the entry of water into the equipment through the cord or its conductors. In addition, the ground connection within equipment shall be similarly treated to protect such connections from the deteriorating effect of water that may enter into the equipment.
(D) Terminations. Connections with flexible cord shall be permanent, except that grounding-type attachment plugs and receptacles shall be permitted to facilitate removal or disconnection for maintenance, repair, or storage of fixed or stationary equipment not located in any water-containing part of a fountain.

NOTE: For a complete copy of 2005 edition of NEC Article 680 (680.1 through 680.74) please contact NFPA, 1 Batterymarch Park, PO Box 9101, Quincy, MA 02269

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE

1127' NORTH OF VITRUVIAN WAY.
BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF

VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
RICHARD JAMES BARINA
67885
LICENSED
PROFESSIONAL ENGINEER

Richard J. Barina P.E.
11/3/09

Scale: NONE

NO.	REVISION	BY	DATE

Addison. *TOWN OF ADDISON*
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

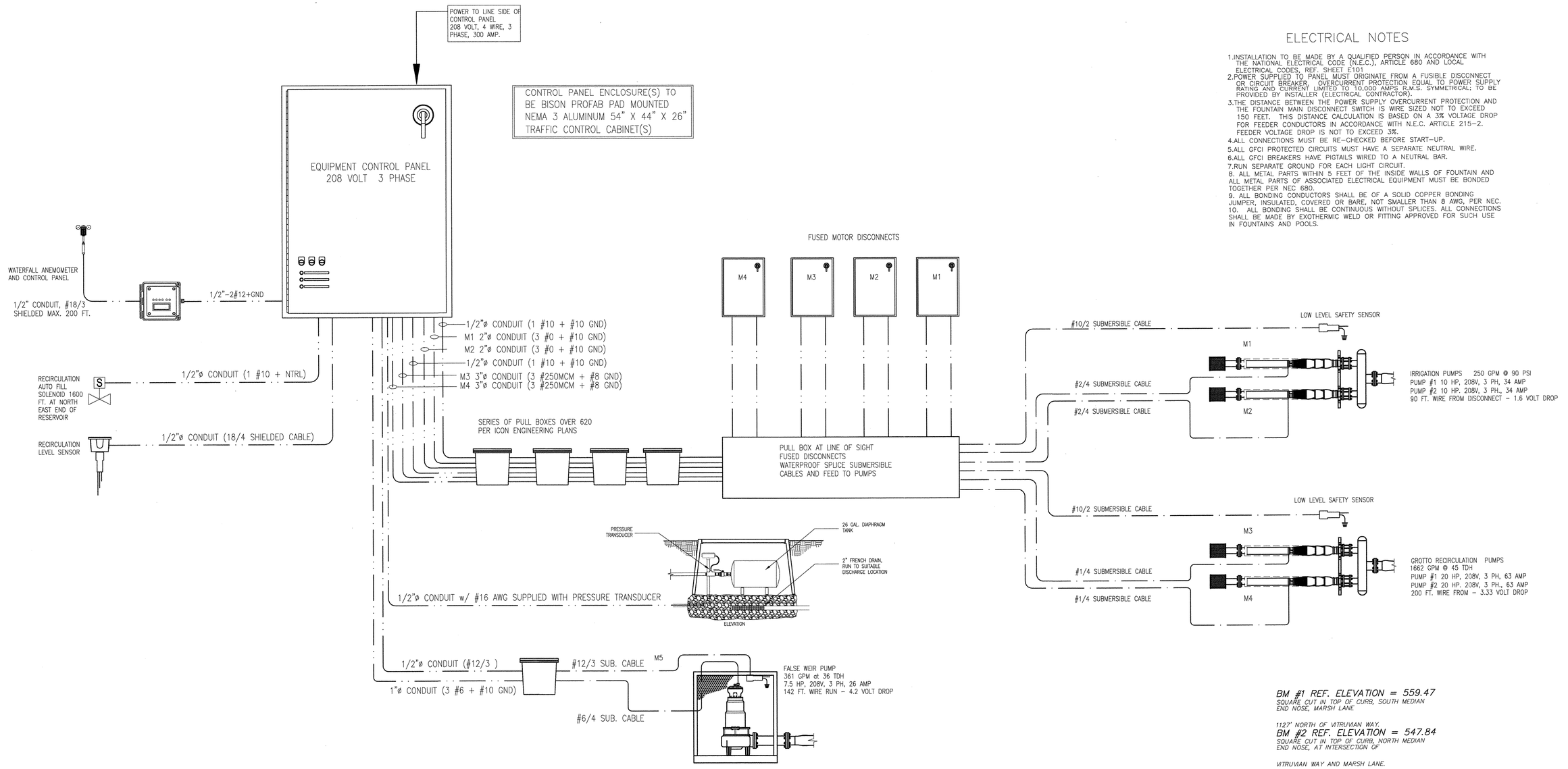
ELECTRICAL NOTES

GreenScape
greenscapecorp.com

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	RJB	GDR	NOV. 03, 2009	PW # 2009-04	E101

BID

PARK IMPROVEMENTS - VITRUVIAN PARK



ELECTRICAL NOTES

1. INSTALLATION TO BE MADE BY A QUALIFIED PERSON IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (N.E.C.), ARTICLE 680 AND LOCAL ELECTRICAL CODES, REF. SHEET E101
2. POWER SUPPLIED TO PANEL MUST ORIGINATE FROM A FUSIBLE DISCONNECT OR CIRCUIT BREAKER. OVERCURRENT PROTECTION EQUAL TO POWER SUPPLY RATING AND CURRENT LIMITED TO 10,000 AMPS R.M.S. SYMMETRICAL; TO BE PROVIDED BY INSTALLER (ELECTRICAL CONTRACTOR).
3. THE DISTANCE BETWEEN THE POWER SUPPLY OVERCURRENT PROTECTION AND THE FOUNTAIN MAIN DISCONNECT SWITCH IS WIRE SIZED NOT TO EXCEED 150 FEET. THIS DISTANCE CALCULATION IS BASED ON A 3% VOLTAGE DROP FOR FEEDER CONDUCTORS IN ACCORDANCE WITH N.E.C. ARTICLE 215-2. FEEDER VOLTAGE DROP IS NOT TO EXCEED 3%.
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5. ALL GFCI PROTECTED CIRCUITS MUST HAVE A SEPARATE NEUTRAL WIRE.
6. ALL GFCI BREAKERS HAVE PIGTAILS WIRED TO A NEUTRAL BAR.
7. RUN SEPARATE GROUND FOR EACH LIGHT CIRCUIT.
8. ALL METAL PARTS WITHIN 5 FEET OF THE INSIDE WALLS OF FOUNTAIN AND ALL METAL PARTS OF ASSOCIATED ELECTRICAL EQUIPMENT MUST BE BONDED TOGETHER PER NEC 680.
9. ALL BONDING CONDUCTORS SHALL BE OF A SOLID COPPER BONDING JUMPER, INSULATED, COVERED OR BARE, NOT SMALLER THAN 8 AWG, PER NEC.
10. ALL BONDING SHALL BE CONTINUOUS WITHOUT SPLICES. ALL CONNECTIONS SHALL BE MADE BY EXOTHERMIC WELD OR FITTING APPROVED FOR SUCH USE IN FOUNTAINS AND POOLS.

01 **IRRIGATION AND RECIRCULATION ELECTRICAL RISER**
Not to Scale

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE

1127' NORTH OF VITRUVIAN WAY.
BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF

VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
RICHARD JAMES BARINA
87685
REGISTERED
PROFESSIONAL ENGINEER

Richard J. Barina, P.E.
11/3/09

Scale: NONE

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

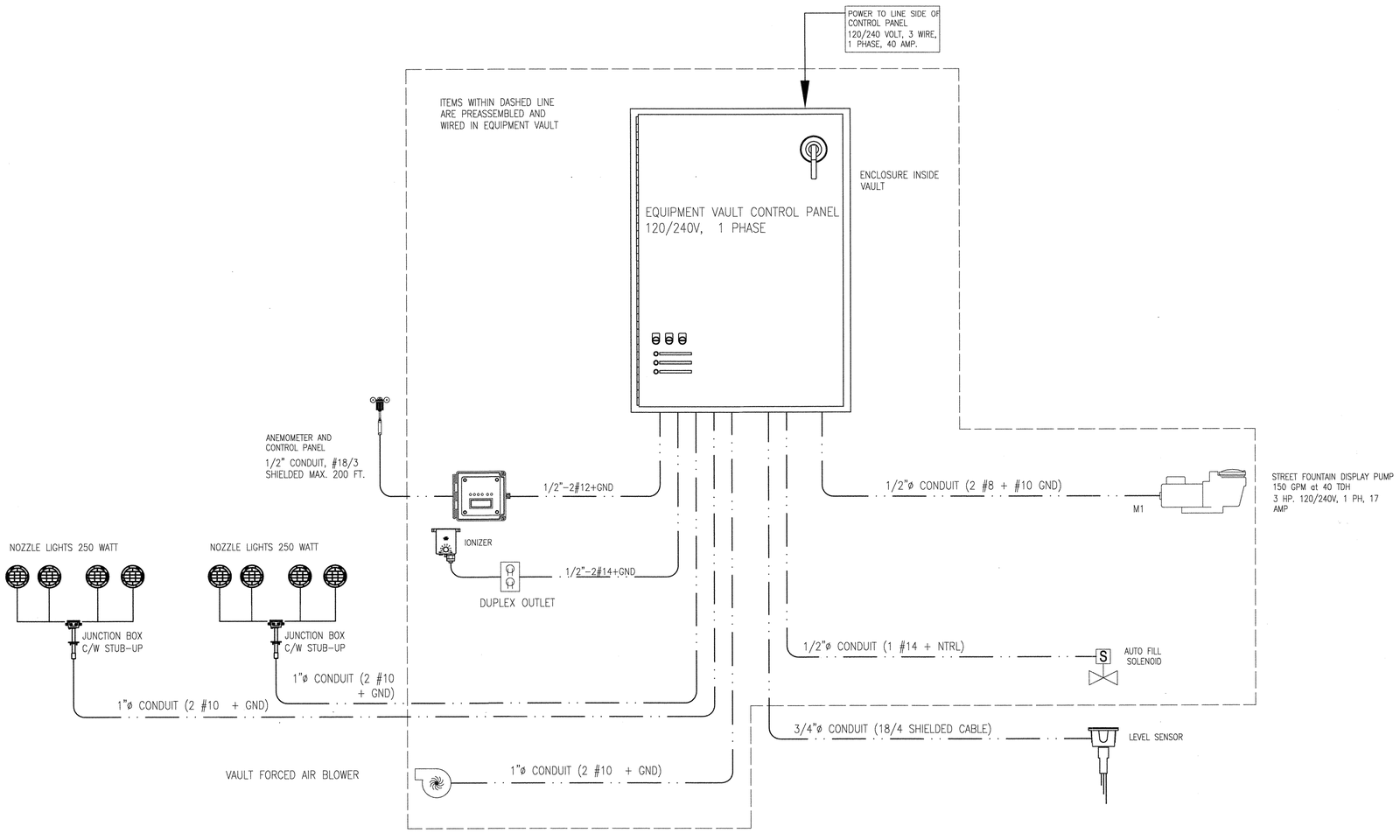
IRRIGATION AND RECIRCULATION ELECTRICAL RISER

Greenscape
greenscapepump.com

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	RJB	GDR	Nov. 03, 2009	PW # 2009-04	E102

BID

PARK IMPROVEMENTS - VITRUVIAN PARK



01 SIDEWALK FOUNTAIN ELECTRICAL RISER

Not to Scale

ELECTRICAL NOTES

1. INSTALLATION TO BE MADE BY A QUALIFIED PERSON IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (N.E.C.), ARTICLE 680 AND LOCAL ELECTRICAL CODES, REF. SHEET E101.
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SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE

1127' NORTH OF VITRUVIAN WAY.
BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF

VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
RICHARD JAMES BARINA
67685
REGISTERED
PROFESSIONAL ENGINEER

Richard J. Barina, P.E.
11/3/09

Scale: NONE

NO.	REVISION	BY	DATE

Addison! TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

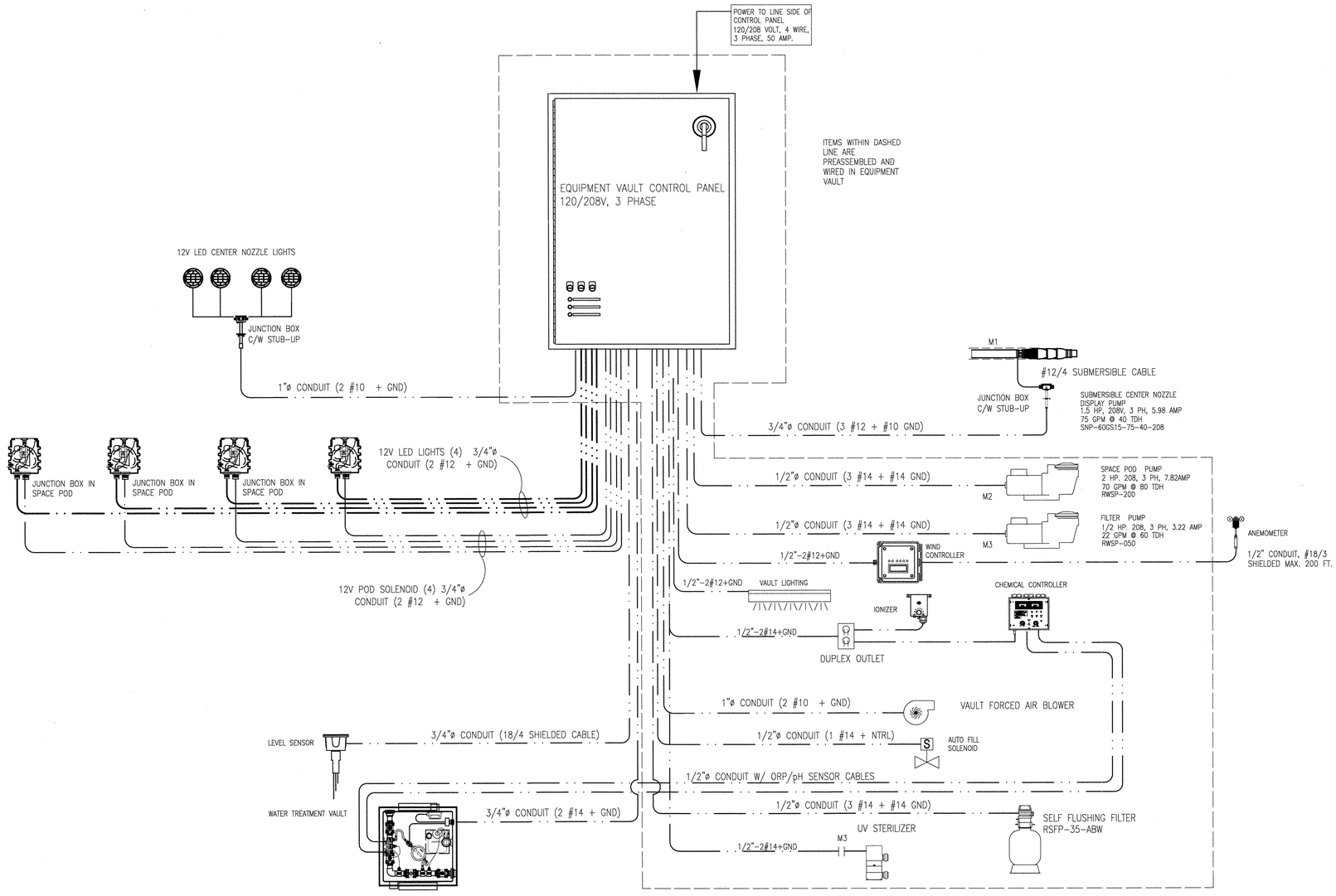
STREET FOUNTAIN ELECTRICAL RISER

Greenscape
greenscapepump.com

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	RJB	GDR	Nov. 03, 2009	PW# 2009-04	E103

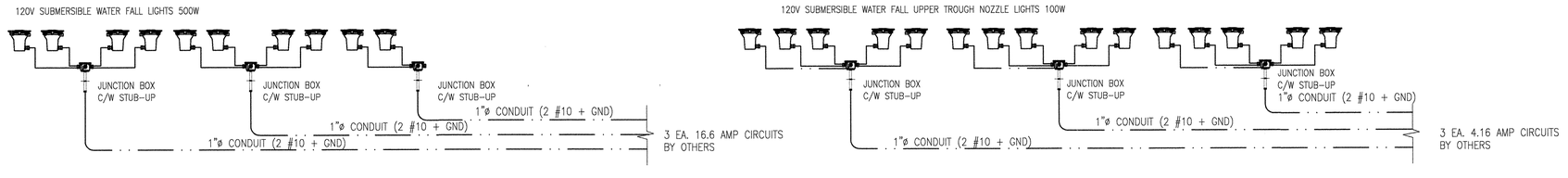
BID

PARK IMPROVEMENTS - VITRUVIAN PARK



02 INTERACTIVE FOUNTAIN ELECTRICAL RISER

Not to Scale



01 GROTTO FOUNTAIN ELECTRICAL RISER

Not to Scale

Scale: NONE

ELECTRICAL NOTES

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STATE OF TEXAS
RICHARD JAMES BARINA
87685
REGISTERED PROFESSIONAL ENGINEER

Richard J. Barina, P.E.
11/3/09

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VITRUVIAN WAY AND MARSH LANE.

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

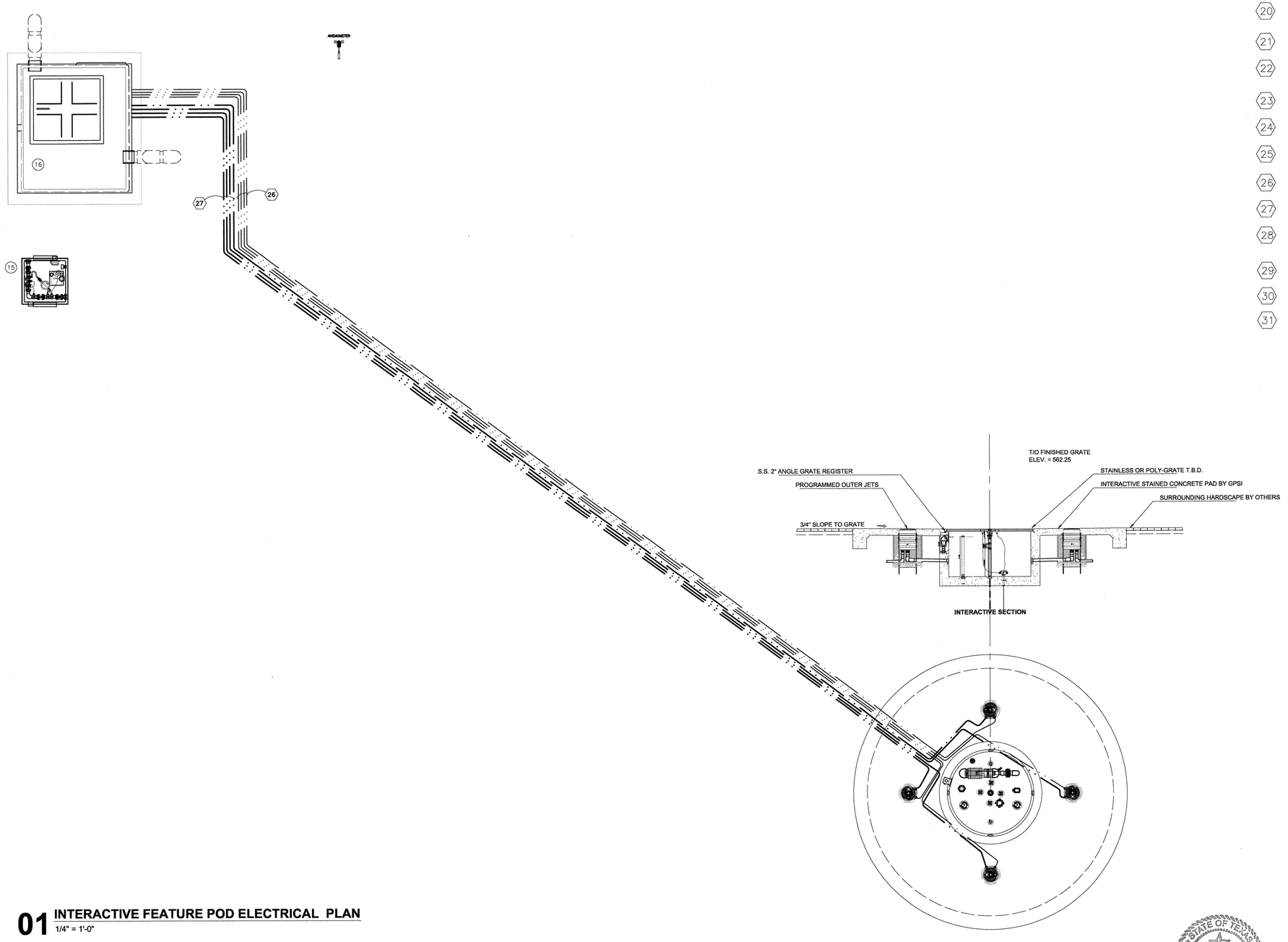
INTERACTIVE ELECTRICAL RISER AND GROTTO LIGHTING

Greenscape
greenscapepump.com

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	RJB	GDR	Nov. 03, 2009	PW # 2009-04	E104

BID

PARK IMPROVEMENTS – VITRUVIAN PARK



WATER FEATURE CONDUIT LEGEND

SYM	SIZE	DESCRIPTION	#REQ'D
20		MAIN ELECTRICAL SERVICE TO VAULT, 120/208v, 4 WIRE, 50 AMPS	1
21	3/4"	PVC CONDUIT W/ #18/4 SHIELDED LEVEL SENSING CABLE	1
22	3/4"	PVC CONDUIT SUBMERSIBLE MOTOR CIRCUIT W/ #12/3 + #10 GND. – THHN	1
23	1"	PVC CONDUIT CENTER NOZZLE LIGHT CIRCUIT W/ #10/2 + #10 GND	1
24	NA	#12/4 SUBMERSIBLE CABLE TO SUBMERSIBLE MOTOR	1
25	NA	SUBMERSIBLE CABLE SUPPLIED WITH LIGHT FIXTURES	4
26	3/4"	CONDUIT W/ #12/2 + GND. 12V POD SOLENOID CIRCUITS	4
27	3/4"	CONDUIT W/ #12/2 + GND. 24V POD LED LIGHT CIRCUITS	4
28	1/2"	CONDUIT W/ #18/3 SHIELDED, ANEMOMETER MAX. 200 FT. FROM CONTROLLER	1
29	3/4"	CONDUIT W/ #14/2 + GND. CHEM. VAULT POWER CIRCUIT	1
30	1/2"	CONDUIT W/ ORP SENSOR CABLE	1
31	1/2"	CONDUIT W/ pH SENSOR CABLE	1

INTERACTIVE SECTION

INTERACTIVE PLAN

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE

1127' NORTH OF VITRUVIAN WAY.
BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF

VITRUVIAN WAY AND MARSH LANE.

01 INTERACTIVE FEATURE POD ELECTRICAL PLAN
1/4" = 1'-0"

STATE OF TEXAS
RICHARD JAMES BARINA
67685
REGISTERED
PROFESSIONAL ENGINEER

Richard J. Barina, P.E.
11/3/09

NO.	REVISION	BY	DATE

Addison. TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

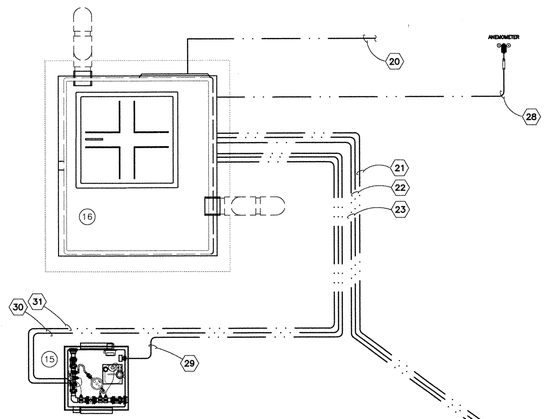
INTERACTIVE FEATURE POD ELECTRICAL PLAN

Greenscape
greenscapepump.com

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	GDR	GDR	Nov. 03, 2009	PW# 2009-04	E105

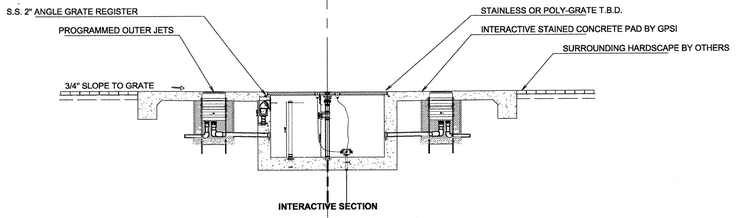
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PARK IMPROVEMENTS – VITRUVIAN PARK

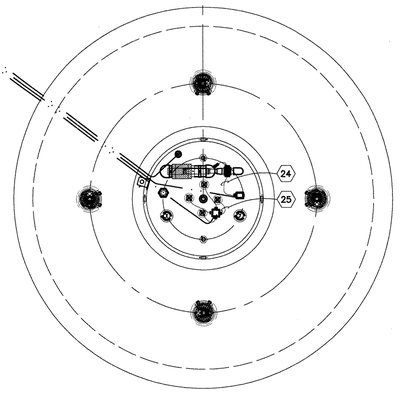


WATER FEATURE CONDUIT LEGEND

SYM	SIZE	DESCRIPTION	#REQ'D
20		MAIN ELECTRICAL SERVICE TO VAULT, 120/208v, 4 WIRE, 50 AMPS	1
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22	3/4"	PVC CONDUIT SUBMERSIBLE MOTOR CIRCUIT W/ #12/3 + #10 GND. – THHN	1
23	1"	PVC CONDUIT CENTER NOZZLE LIGHT CIRCUIT W/ #10/2 + #10 GND	1
24	NA	#12/4 SUBMERSIBLE CABLE TO SUBMERSIBLE MOTOR	1
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INTERACTIVE SECTION



INTERACTIVE PLAN

BM #1 REF. ELEVATION = 559.47
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SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF

VITRUVIAN WAY AND MARSH LANE.

01 **INTERACTIVE FEATURE ADDITIONAL ELECTRICAL PLAN**
1/4" = 1'-0"

STATE OF TEXAS
RICHARD JAMES BARINA
67885
REGISTERED
PROFESSIONAL ENGINEER

Richard J. Barina P.E.
11/3/09

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

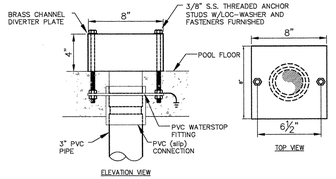
INTERACTIVE FEATURE ADDITIONAL ELECTRICAL PLAN

Greenscape
greenscapepump.com

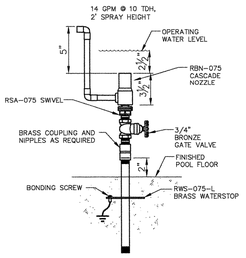
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	GDR	GDR	Nov. 03, 2009	PW# 2009-04	E106

BID

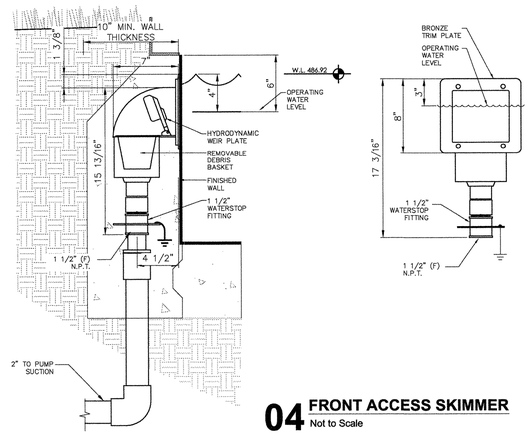
PARK IMPROVEMENTS – VITRUVIAN PARK



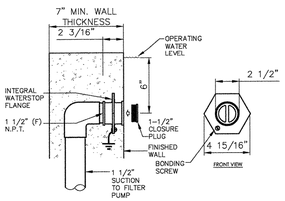
02 3" SUCTION / DISCHARGE PENETRATION WITH WATERSTOP
Not to Scale



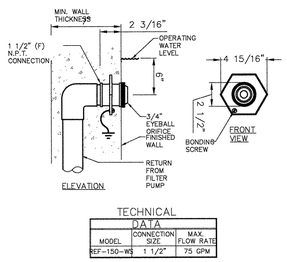
03 3/4" BUBBLER NOZZLE
Not to Scale



04 FRONT ACCESS SKIMMER
Not to Scale

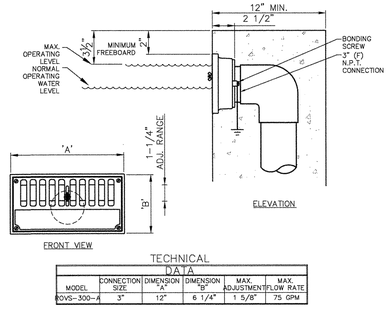


05 VACUUM FITTING
Not to Scale



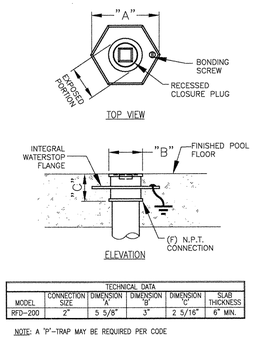
TECHNICAL DATA		
MODEL	CONNECTION SIZE	MAX. FLOW RATE
REF-150-WS	1 1/2"	75 GPM

06 EYEBALL INLET FITTING
Not to Scale



TECHNICAL DATA					
MODEL	CONNECTION SIZE	DIMENSION 'A'	DIMENSION 'B'	MAX. ADJUSTMENT	MAX. FLOW RATE
RSVS-300-A	3"	12"	6 1/4"	1 5/8"	75 GPM

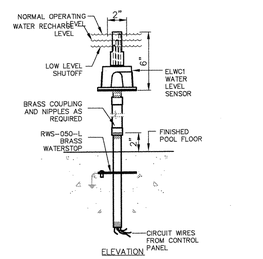
07 SIDEWALL OVERFLOW DRAIN
Not to Scale



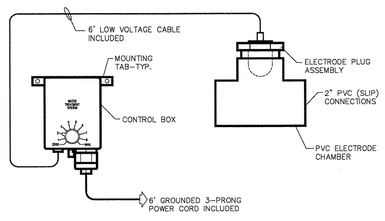
TECHNICAL DATA						
MODEL	CONNECTION SIZE	DIMENSION 'A'	DIMENSION 'B'	DIMENSION 'C'	SLAB THICKNESS
RFD-200	2"	5 5/8"	3"	2 5/16"	6" MIN.

NOTE: A 'P'-TRAP MAY BE REQUIRED PER CODE

08 FLOOR DRAIN FITTING
Not to Scale

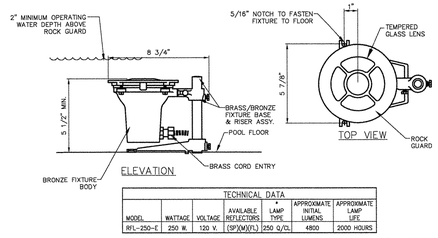


09 WATER LEVEL CONTROL SENSOR
Not to Scale



TECHNICAL DATA				MAX. POOL
MODEL No.	POWER REQ.	ENCLOSURE SIZE	OUTPUT	SIZE IN GALLONS
RCUAG-25	120-240 VAC-1 PH.	3.6Wx4.7Hx2.3D	0-0.42 amps @ 0-18 VDC	25,000

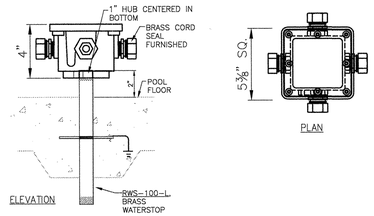
10 'COPPER SILVER' IONIZER
Not to Scale



TECHNICAL DATA						
MODEL	WATTAGE	VOLTAGE	AVAILABLE REFLECTORS	* LAMP TYPE	APPROXIMATE INITIAL LUMENS	APPROXIMATE LAMP LIFE
RFL-250-E	250 W.	120 V.	(SP)(WI)(FL)	250 Q/CL	4800	2000 HOURS

NOTES: *1. A submersible junction box and potting compound will be required for installation.
2. All fixtures are thermally protected with an internal cutoff device.

11 FREESTANDING LIGHT FIXTURE
Not to Scale



12 FOUR CORD SUBMERSIBLE JUNCTION BOX
Not to Scale

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 112' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
RICHARD JAMES BARINA
57685
REGISTERED
PROFESSIONAL ENGINEER
Richard J. Barina P.E.
11/3/09

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

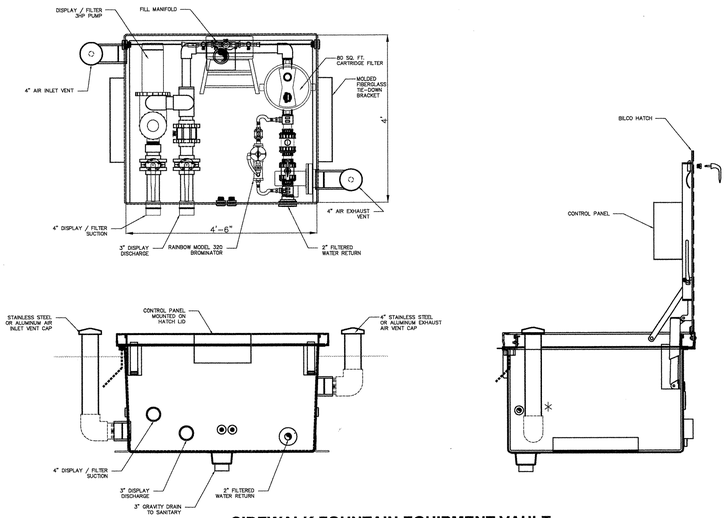
COMPONENT DETAILS SHEET 1

Greenscape
greenscapepump.com

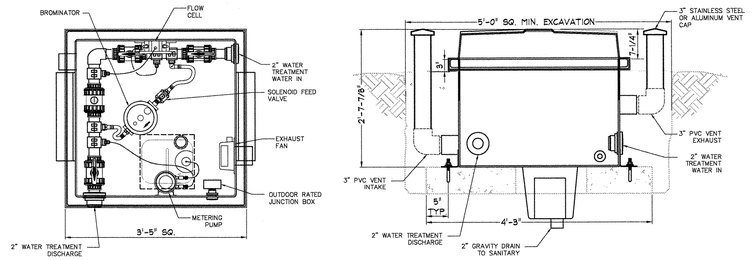
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	RJB	RJB	Nov. 03, 2009	PW # 2009-04	D101

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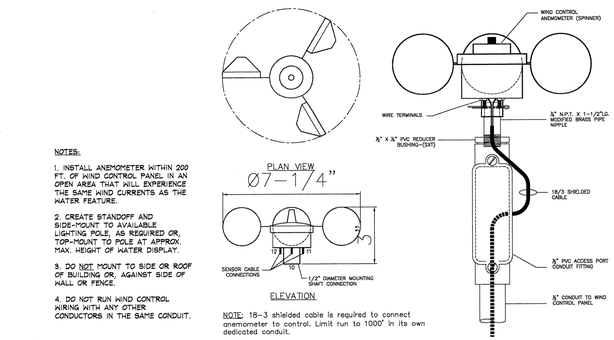
PARK IMPROVEMENTS – VITRUVIAN PARK



01 SIDEWALK FOUNTAIN EQUIPMENT VAULT
Not to Scale



02 INTERACTIVE FOUNTAIN CHEMICAL VAULT
Not to Scale

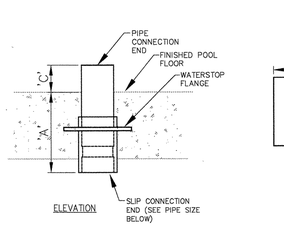


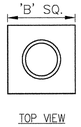
NOTES:

1. INSTALL ANEMOMETER WITHIN 200 FT. OF WIND CONTROL PANEL IN AN OPEN AREA THAT WILL EXPERIENCE THE SAME WIND CURRENTS AS THE WATER FEATURE.
2. CREATE STANDOFF AND SIDE-MOUNT TO AVAILABLE LIGHTING POLE, AS REQUIRED OR, TOP-MOUNT TO POLE AT APPROX. MAX. HEIGHT OF WATER DISPLAY.
3. DO NOT MOUNT TO SIDE OR ROOF OF BUILDING OR, AGAINST SIDE OF WALL OR FENCE.
4. DO NOT RUN WIND CONTROL WIRING WITH ANY OTHER CONDUCTORS IN THE SAME CONDUIT.

NOTE: 18-3 shielded cable is required to connect anemometer to control. Limit run to 1000' in its own dedicated conduit.

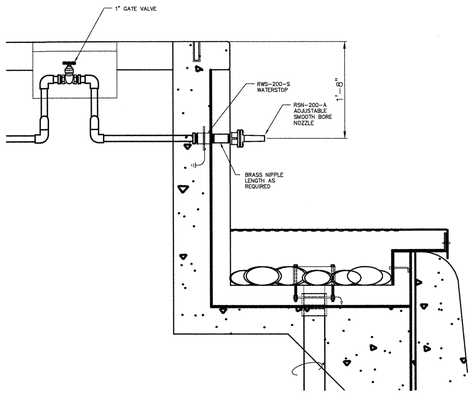
03 ANEMOMETER
Not to Scale



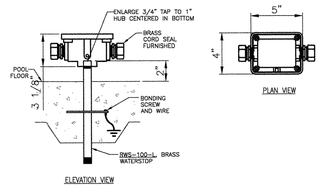


TECHNICAL DATA				
MODEL No.	PIPE SIZE	DIMENSION 'A'	DIMENSION 'B'	DIMENSION 'C'
RWS-300-P	3"	6-5/8"	9"	3"

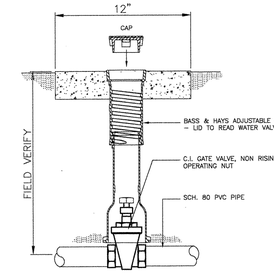
04 3" DISCHARGE WATERSTOP PENETRATION
Not to Scale



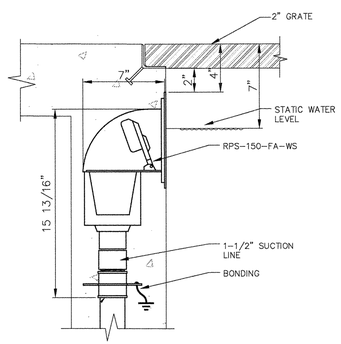
05 GROTTO DISCHARGE NOZZLE
Not to Scale



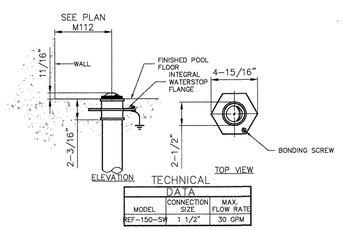
06 TWO CORD SUBMERSIBLE JUNCTION BOX
Not to Scale



07 ADJUSTABLE VALVE BOX
Not to Scale

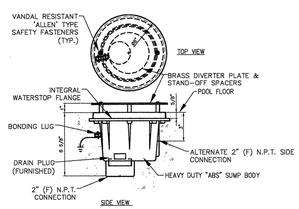


08 INTERACTIVE SKIMMER DETAIL
Not to Scale

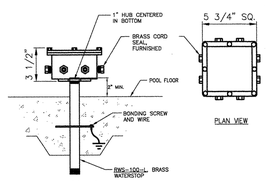


TECHNICAL DATA		
MODEL	CONNECTION SIZE	MAX. FLOW RATE
REF-150-SW	1 1/2"	30 GPM

09 INTERACTIVE FILTER FLOOR RETURN SWEEP
Not to Scale



10 INTERACTIVE RAVS-800 SUCTION SUMP
Not to Scale



11 8 CORD SUBMERSIBLE JUNCTION BOX
Not to Scale



Richard J. Barina, P.E.
11/3/09

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

NO.	REVISION	BY	DATE

Addison! TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

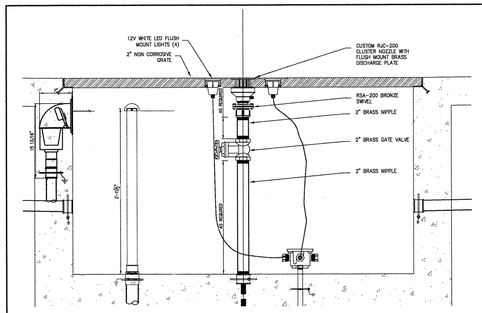
COMPONENT DETAILS
SHEET 2

Greenscape
greenscapepump.com

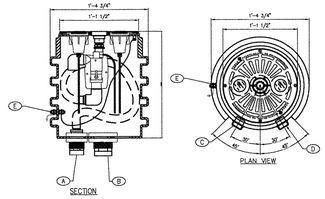
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	RJB	RJB	Nov. 03, 2009	PW# 2009-04	D102

BID

PARK IMPROVEMENTS - VITRUVIAN PARK



01 INTERACTIVE RJC-200 CENTER NOZZLE
Not to Scale



SECTION

PLAN VIEW

SYM.	SIZE/FUNCTION	CONNECTION TYPE
A	1-1/2" SUPPLY CONNECTION	SLIP CONNECTION
B	2" DRAIN RETURN CONNECTION	SLIP CONNECTION
C	3/4" LTG. CONDUIT CONNECTION	FEMALE THREADED CONNECTION
D	3/4" SOLENOID VALVE CONNECTION	FEMALE THREADED CONNECTION
E	BONDING LUG	1/4"-20 NUT AND BOLT

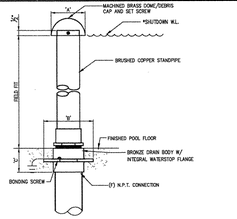
HYDRAULIC DATA							
Model No.		Spray Height					
		3'	4'	5'	6'	10'	12'
RPAT-100-SP-JC-L2	GPM	8.8	11.7	13.9	15.7	17.5	18.6
	HEAD	14.9'	26.0'	35.9'	47.0'	56.4'	69.0'

NOTES:
1. Water supply to nozzle must be filtered to 500 microns (30 mesh) maximum.
2. Submersible cable for both nozzle solenoid and lights must be installer connected to outbound circuits within internal condulets with cord compression seals (provided) condulets must be potted using RPC-Series potting compound, as required by the National Electrical Code, available as accessory.

SPECIFICATION DATA: Space Pod w/Jet Cluster 'Patriot' Nozzle, the nozzle assembly shall be constructed of stainless steel, brass and PVC plastic with all stainless steel fasteners; 4 ft. of 16-3 submersible cable, 12 VAC, 60 Hz., 8.0 watt actuating coil. The 'Space Pod' basin is fabricated from heavy-duty polyethylene and includes ribbed exterior for keying into concrete, female threaded fitting connections, decorative brass cover with stainless steel fasteners and two (2) 5.0 WATT, 12VDC WHITE LED LAMPS INSTALLED WITHIN lighting fixtures with 4 ft. cables.



02 INTERACTIVE RPAT-100-SP-JC SPACE POD CLUSTER JET
Not to Scale

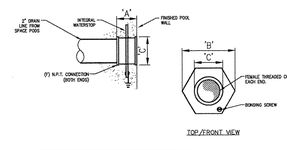


TECHNICAL DATA				
Model No.	Connection Size	Dimension 'A'	Dimension 'B'	Dimension 'C'	Max. Drain Rate
ROV-300-S	2"	4-3/8"	6-1/2"	3-1/8"	70 GPM

NOTE: In multi-level fountains this lowest pool may experience a rise in water level on system shutdown. Note this when determining the standpipe height requirements.
NOTE: Special lengths available on special order, consult factory.

SPECIFICATION DATA: Standpipe Overflow Drain, with cast bronze waterstop drain coupling with bonding screw; copper standpipe and bronze dome cap w/stainless steel set screws and (1) N.P.T. connection. Finish shall be brushed copper and natural bronze. Fabricated for a standard 18" water level.

03 INTERACTIVE ROVS-300 OVERFLOW STAND PIPE
Not to Scale



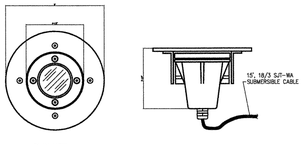
TOP/FRONT VIEW

TECHNICAL DATA				
MODEL	N.P.T.	LENGTH 'A'	FLANGE SIZE 'B'	EXPOSED 'C'
RWS-150-S	1 1/2"	2 1/4"	5"	2 7/16"

SPECIFICATION DATA: Bob Penetration Fitting (Short Style), machined cast bronze, one-piece construction, with integral waterstop flange, bonding screw, and (2) N.P.T. connection; both ends.

DESIGN/APPLICATION DATA: Ramon Foundation RWS-S Series slab penetration fittings are designed and fabricated for coupling into concrete pool walls and slabs as a waterstop device and a concrete key fitting. The fitting provides a rigid, threaded connection for display nozzles and other pool fittings.

04 INTERACTIVE SPACE POD DRAIN WATER STOP
Not to Scale

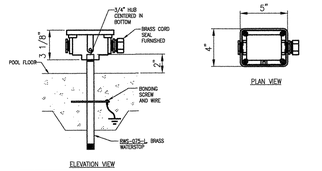


PLAN VIEW

ELEVATION

Compact, 12V. Wet/Dry/Submersible Light Fixture WITH LARGE BRASS MOUNTING FACEPLATE (FOR GRATE MOUNTING), low voltage underwater light fixture of cast brass construction, with W/SPOT CONFIGURED 12VAC WHITE LED LAMP, tempered glass lens, thumb-screw angle adjustment knobs, high-temp "O"-ring seal, 15 ft. 18/3 SJT-MA type submersible cable.

05 INTERACTIVE CENTER NOZZLE 12V LIGHTS
Not to Scale



ELEVATION VIEW

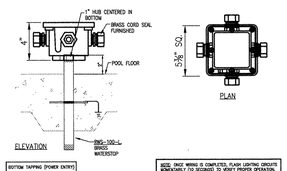
PLAN VIEW

BOTTOM TAPPING (POWER ENTRY) TAPPING SIZE: 3/4" (1) N.P.T.
3/4" (1) N.P.T. CORD SEAL
SIDE TAPPINGS - (4)

NOTE: ONCE WIRING IS COMPLETED, CHECK MOTOR FOR PROPER ROTATION. CAULK OR PUTTY TO SEAL ALL CONDUIT ENTRIES INTO J-BOX PRIOR TO POTTING WITH JEPC-2114-O, POTTING COMPOUND.

INSTALLATION:
1. Check local electrical code before installing. Must comply with NEC article 680.
2. Use only 'Eversbo' or brass pipe for conduit where exposed to pool water.
3. After making and verifying all connections, use putty provided to seal all conduit entries into j-box.
4. Once conduits are sealed, pot junction box with JEPC-2114-O potting compound.
5. Use good quality thread sealant on junction screws.
6. Pressure check conduit system to eliminate all leaks.

06 INTERACTIVE FEATURE RJB-075-C JUNCTION BOX
Not to Scale



ELEVATION

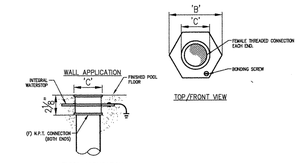
PLAN

BOTTOM TAPPING (POWER ENTRY) TAPPING SIZE: 1" (1) N.P.T.
3/4" (1) N.P.T. CORD SEAL
SIDE TAPPINGS - (4)

NOTE: ONCE WIRING IS COMPLETED, FLASH LIGHTING CIRCUITS MOMENTARILY (10 SECONDS) TO VERIFY PROPER OPERATION, THEN WITH PUTTY PROVIDED, SEAL ALL CONDUIT ENTRIES WITH J-BOX PRIOR TO POTTING WITH JEPC-2114-O POTTING COMPOUND (AVAILABLE AS ACCESSORY ITEM).

INSTALLATION:
1. Check local electrical code before installing. Must comply with NEC article 680.
2. Use only 'Eversbo' or brass pipe for conduit where exposed to pool water.
3. After making and verifying all connections, use putty provided to seal all conduit entries into j-box.
4. Once conduits are sealed, pot junction box with JEPC-2114-O potting compound.
5. Use good quality thread sealant on junction boxes.
6. Pressure check conduit system to eliminate all leaks.

07 INTERACTIVE FEATURE RJB-100-C JUNCTION BOX
Not to Scale



TOP/FRONT VIEW

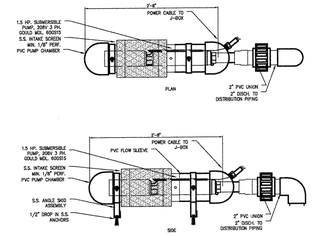
FLOOR APPLICATION

TECHNICAL DATA				
MODEL	N.P.T.	LENGTH 'A'	FLANGE SIZE 'B'	EXPOSED 'C'
RWS-300-S	3"	3"	6 1/2"	4 5/16"

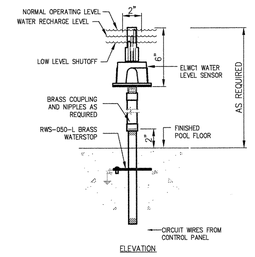
SPECIFICATION DATA: Bob Penetration Fitting (Short Style), machined cast bronze, one-piece construction, with integral waterstop flange, bonding screw, and (2) N.P.T. connection; both ends.

DESIGN/APPLICATION DATA: Ramon Foundation RWS-S Series slab penetration fittings are designed and fabricated for coupling into concrete pool walls and slabs as a waterstop device and a concrete key fitting. The fitting provides a rigid, threaded connection for display nozzles and other pool fittings.

08 INTERACTIVE RWS-300 FLOOR WATERSTOP FITTING
Not to Scale



09 INTERACTIVE CENTER NOZZLE SUBMERSIBLE PUMP
Not to Scale



ELEVATION

10 INTERACTIVE WATER LEVEL SENSOR
Not to Scale

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
RICHARD JAMES BARINA
67685
LICENSED PROFESSIONAL ENGINEER

Richard J. Barina, P.E.
11/3/09

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

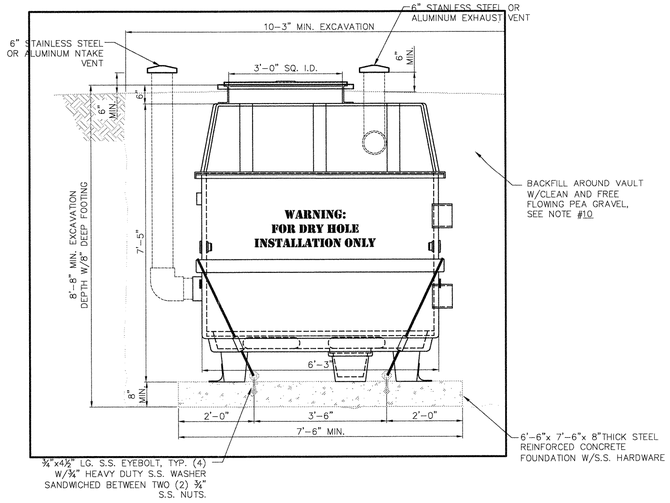
COMPONENT DETAILS
SHEET 3

Greenscape
greenscapepump.com

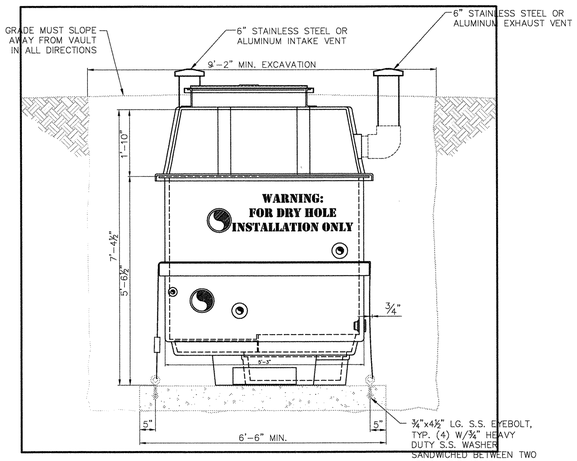
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	RJB	RJB	Nov. 03, 2009	PW # 2009-04	D103

BID

PARK IMPROVEMENTS - VITRUVIAN PARK

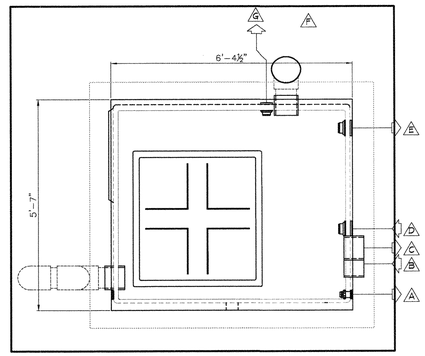


01 **VAULT SIDE DETAIL**
1/2" - 1'0"



02 **VAULT END DETAIL**
1/2" - 1'0"

NOTE: FINAL VAULT LAYOUT PLAN T.B.D.



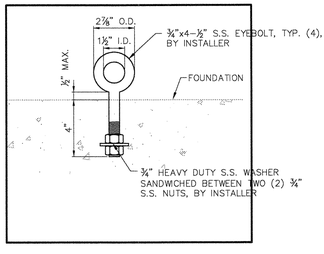
03 **VAULT LAYOUT PLAN**
1/2" - 1'0"

1. The sump pump (located inside the Series III vault) must be made operational immediately after vault is placed in the excavation and before any piping, conduit or backfill material is installed, use extension cord from external power source to operate sump pump if necessary. If pump is not able to be connected immediately, DO NOT install vault until it can be connected.
2. Do not install pump vault into any location below sea level, or where a high water table exists, or in any area subject to periodic or repeated flooding, or groundwater saturation, as the unit is not designed to be surrounded by ground water; damage and/or leakage may occur. If periodic ground water flooding is possible, an adequately sized drainage system (French drain or sump pump well type) must be designed (by project engineer) and provided (by installer) around the vault to move surrounding ground water away from the unit to a lower elevation.
3. In all cases finished grade around the pump vault must be sloped away from the access hatchway in all directions so no water flows into the pump vault (see installation details this sheet). Do not allow water to "pool" around vault under any circumstances.
4. Prior to pump vault installation, a level smooth, steel reinforced concrete foundation, measuring 6'-6"x7'-6"x8" thick, must be poured, and must include the four (4) installer provided 3/4" stainless steel 'eyebolts' (see detail this sheet). Concrete shall have a minimum compression strength at 28 days of 3000 PSI and have a reinforcing steel conforming to ASTM A 615-40. Reinforced concrete pad, anchoring 'eyebolts' and tie-down hardware is provided by the installing contractor.
5. The pump vault must be lifted using a boom crane and girdle straps. The weight of the vault for transportation and lifting purposes is 3,500 pounds unless otherwise indicated on the installation drawings, submittal data, or freight bill of lading.
6. Lower the pump vault into the excavation using a two part lifting sling with 40 ft. long padded straps to ensure a true vertical lift. DO NOT LIFT FROM TOP AND DO NOT USE CHAINS FOR LIFTING AS THEY MAY DAMAGE FIBERGLASS. All off-loading and lifting equipment and labor is the responsibility of the installing contractor.
7. Lower the vault into the excavation slowly and center it on the concrete pad. Insure the concrete pad is level and thoroughly cleaned of debris that could damage the vault floor prior to placing the unit on the pad.
8. Securely anchor the vault to the stainless steel anchor bolts previously installed into the concrete pad (cable, straps and eye bolts furnished by the installing contractor). Vault must be plumb and level prior to hook-up and backfill. Pressure test all piping to be connected prior to backfill operations. HYDROSTATIC (WATER) TESTING SHALL BE THE ONLY APPROVED METHOD, DO NOT USE COMPRESSED AIR TO PERFORM ANY PRESSURE TESTS ON PVC PIPING.
9. After the vault is securely in position, outside piping and conduits must be aligned and connected to insure a true fit without excessive lateral force applied to piping, conduits or fittings.
10. Backfill around the pump vault using an approved granular material free of trash, debris, roots, rocks, vegetation, or other deleterious material. Under no circumstances shall construction waste, large rocks, concrete waste, clay based soil or any other unsuitable backfill be used. A naturally rounded aggregate of 1/4" nominal size ranging from 1/8" to 3/4" diameter, or 1/8" to 1/2" diameter stone crushings, clean and free flowing, may be used. Insure that backfill fills all voids, especially under vault piping and fittings.
11. Spread backfill material in 6" to 8" lifts, and compact to at least 95% of maximum density as determined by ASTM 1557-70.
12. Use manual compaction equipment being careful not to damage pump vault, piping or conduit due to excessive compaction. A single lift of backfill material around pump vault with a final compaction to excessive loads shall not be permitted.
13. A second pressure test of piping should be made after backfilling to insure that piping has not been damaged during backfill operations.
14. A 6 mil thick plastic liner shall be placed over the roof of the pump vault prior to covering the pump vault roof with any specified surcharge. The liner shall be one-piece, continuous sheet extending a minimum of 36" beyond the pump vault wall edges and sloped down and away from the pump vault. The liner must also extend up the vault hatch extension to provide a moisture barrier around the hatch extension.
15. The maximum depth of material over the vault is 4". No concrete, asphalt, rocks, boulders, granite, paver stones, etc. shall be laid over vault. Trees, shrubs, plants, etc. shall not be planted over the vault or within 36" of the vault perimeter. No vehicular traffic shall be allowed over the top of the vault, including cars, trucks, maintenance vehicles, golf carts, or utility or ATV's.
16. It is the responsibility of the installing contractor to insure the all electrical equipment is installed and wired by a QUALIFIED, LICENSED ELECTRICIAN, experienced in pool wiring. All electrical equipment must be installed in accordance with the NATIONAL ELECTRICAL CODE.
17. OSHA confined space requirements and safety procedures are the sole responsibility of the installer. (See below) This product IS NOT U.L. listed as an assembly.

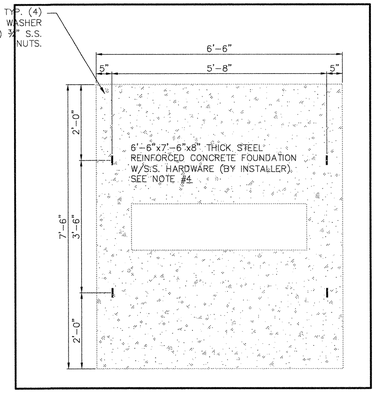
NOTE: INSURE FILL MATERIAL FILLS ALL VOIDS BENEATH VAULT. HAND FEED FILL MATERIAL AS NECESSARY TO FILL ALL POTENTIAL VOIDS. DO NOT USE SHARP ROCKS AS FILL BENEATH VAULT.

ITEM #07 RDP-III, PUMP VAULT REQUIRED 'HOLD-DOWN' HARDWARE:

(4) 3/4"-10 316 S.S. EXTENDED LENGTH EYEBOLT W/4-1/2" SHANK
(8) 3/4"-10 NUT OF 18-8 S.S.
(8) 3/4" 300 SERIES S.S. FLAT WASHER (2" O.D. x .177" THICKNESS)
30' 5/16" 304 S.S. 7x19 STRAND WIRE ROPE
(8) 3/8" 316 S.S. U-BOLT WIRE CLIP
(2) 3/4" 316 S.S. 'JAW & EYE' TURNBUCKLE
20' OF BRAIDED 'GARDEN WATER HOSE OR EQUAL. (TO CREATE A PROTECTIVE SLEEVE FOR VAULT AT CABLE CONTACT POINTS).



04 **EYEBOLT ANCHOR DETAIL**
Not to Scale

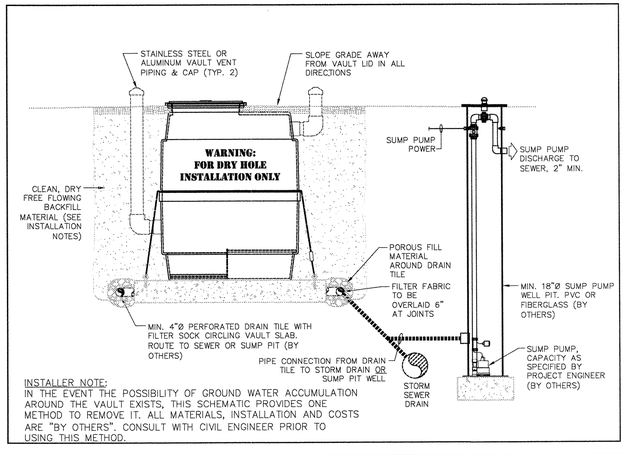


05 **EYEBOLT ANCHOR LAYOUT PLAN**
1/2" = 1'-0"

SYSTEM POWER REQUIREMENT:
120-208V., THREE PHASE, 4-WIRE FEEDER + GND. @ 50.0 F.L.A..

SPECIFICATION DATA: Series III, Direct Burial Pump Vault, consisting of a 6'-4 1/2" x 5'-10 x 8'-0" deep heavy duty FRP vault with white gel-coat interior and brown gel-coat exterior and 36" sq. hatch opening with lockable FRP lid. Furnished with a display pump with suction strainer, autoflush sand filter tank, a 1/2 HP filter pump, all internally required valves, pipe and fitting (Schedule 80 PVC), 495 CFM, fan-forced ventilation system; 1" copper water make-up/fill manifold, 1/3 HP sump pump, interior work light, access ladder, U.L. 508 listed control panel in a Nema 4 enclosure, containing; main disconnect, motor starter(s), 7 day/24 hour timeclock(s), H.O.A. switches; G.F.C.I. breaker(s), and water level/low level cutoff control. Unit is pre-wired, pre-plumbed (Schedule 80 PVC) and factory tested, prior to shipment.
Power requirement: 120-208 V., three-phase, 4-wire feeder + GND.

NOTES:
1. HATCHWAY OPENING MUST BE LOCATED IN A AREA SAFE FROM FLOODING; SLOPE GRADE AWAY FROM VAULT.
2. PROTECT THE FURNISHED DRAIN LINE FROM POSSIBLE BACKFLOW AND SEWER GAS, AS REQUIRED.
3. VAULT SUCTION INTAKE MUST BE MIN. 1'-0" BELOW THE LOWEST POOL OPERATING WATER LEVEL.
4. ALL VAULT AND PENETRATIONS ARE APPROXIMATE.



INSTALLER NOTE:
IN THE EVENT THE POSSIBILITY OF GROUND WATER ACCUMULATION AROUND THE VAULT EXISTS, THIS SCHEMATIC PROVIDES ONE METHOD TO REMOVE IT. ALL MATERIALS, INSTALLATION AND COSTS ARE "BY OTHERS". CONSULT WITH CIVIL ENGINEER PRIOR TO USING THIS METHOD.

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF VITRUVIAN WAY AND MARSH LANE.

STATE OF TEXAS
RICHARD JAMES BARINA
67685
REGISTERED
PROFESSIONAL
ENGINEER
Richard J. Barina, P.E.
11/3/09

NO.	REVISION	BY	DATE

Addison! TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK IMPROVEMENTS
VITRUVIAN PARK

COMPONENT DETAILS
SHEET 4

Greenscape
greenscapepump.com

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	RJB	RJB	Nov. 03, 2009	PW# 2009-04	D104

BID

PARK IMPROVEMENTS - VITRUVIAN PARK

GENERAL NOTES FOR FABRICATION AND INSTALLATION OF THIS PROJECT

1. The Signage Contractor is the entity who is responsible for the completed signage products described by these documents including but not limited to Fabrication and Installation. The General Contractor is the entity responsible for the VITRUVIAN PARK SITE SIGNAGE Construction Project.

2. The Signage Contractor is responsible for the structural engineering design of the signage and supporting structure to comply with the graphic design described by these documents. The Signage Contractor shall submit structural engineering shop drawings signed and sealed by Professional Engineers registered in Project State for the respective disciplines.

3. The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Signage Contractor in accordance with the highest standards of trade practice. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all.

4. The Signage Contractor shall carefully study and compare the various Drawings and other Design Documents relative to that portion of the work, as well as the information furnished by the Owner (including existing and proposed conditions). The Signage Contractor shall take field measurements of any existing conditions related to that portion of the Work and shall observe any conditions at the site affecting it. Also, the Signage Contractor is responsible for reviewing these document for compliance with all building and zoning regulations. Theses obligations are for the purpose of facilitating construction by the Signage Contractor and are not for the purpose of discovering errors, omissions or inconsistencies in the Contract Documents; however, any errors, omissions or inconsistencies discovered by the Signage Contractor shall be reported promptly to the Environmental Graphic Desginer as a request for information in such form as the Environmental Graphic Designer may require. If the Signage Contractor fails to perform the review of the existing conditions and the coordination of the Construction Documents, the Signage Contractor shall pay such costs and damages to the Owner as would have been avoided if the Signage Contractor had performed these obligations.

5. The Signage Contractor shall be responsible to the Owner for acts and omissions of the Signage Contractor's employees, Subcontractors and their agents and employees, and other persons or entities performing portions of the Work for or on behalf of the Signage Contractor or any of its Subcontractors.

6. The Signage Contractor may make substitutions only with the consent of the Owner, after evaluation by the Environmental Graphic Designer and in accordance with a Change Order.

7. The Signage Contractor warrants to the Owner and Environmental Graphic Designer that materials and equipment furnished under the Contract will be of good quality and new unless otherwise required or permitted by the Contract Documents, that the Work will be free from defects not inherent in the quality required or permitted, and that the Work will conform to the requirements of the Contract Documents. Work not conforming to these requirements, including substitutions not properly approved and authorized, may be considered defective. The Signage Contractor's warranty excludes remedy for damage or defect caused by abuse, modifications not executed by the Signage Contractor, improper or insufficient maintenance, or normal wear and tear caused by normal usage. If Required by the Environmental Graphic Designer, the Signage Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment. In addition, the Signage Contractor shall warrantee to the Owner to replace or repair any portion of the Work that fails to conform with the requirements of the Construction Documents within a one (1) year period from date of final acceptance of the Work.

8. Unless otherwise provided in the Contract Documents, the Signage Contractor shall secure and pay for the building permit and other permits and governmental fees, licenses and inspections necessary for proper execution and completion of the Work which are customarily secured after execution of the Contract and which are legally required when bids are received or negotiations concluded. The Signage Contractor shall comply with and give notices required by laws, ordinances, rules, regulations and lawful orders of public authorities applicable to performance of the work.

9. The Signage Contractor shall comply with and give notices required by laws, ordinances, rules, regulations and lawful orders of public authorities applicable to performance of the Work.

10. The Signage Contractor shall employ a competent superintendent and necessary assistants who shall be in attendance at the Project site during performance of the Work. The superintendent shall represent the Signage Contractor, and communications given to the superintendent shall be as binding as if given to the Signage Contractor. Important communications shall be confirmed in writing. Other communications shall be similarly confirmed on written request in each case.

11. The Signage Contractor, promptly after being awarded the Contract, shall prepare and submit for the Owner's and Environmental Graphic Designer's information a construction schedule of the Work. The schedule shall not exceed time limits current under the Contract Documents, shall be revised at appropriate intervals as required by the conditions of the Work and the Project, shall be related to the entire Project to the extent required by the Contract Documents, and shall provide for expeditious and practical execution of the Work. The Signage Contractor shall prepare and keep current, of the Environmental Graphic Designer's approval, a schedule of submittals which is coordinated with the Signage Contractor's construction schedule and allows the Environmental Graphic Designer reasonable time to review submittals. The Signage Contractor shall perform the Work in general accordance with the most recent schedules submitted to the Owner and Environmental Graphic Designer.

12. The Signage Contractor shall perform no portion of the Work unless Shop Drawings, Product Data, Samples, Mock-Ups (where indicated) or similar submittals have been reviewed by the Environmental Graphic Designer and accepted for inclusion in the Work. Graphic artwork shall be provided by the Environmental Graphic Designer to the Signage Contractor via computer disk, email or FTP site to facilitate the production of the Shop Drawing submittals. The Signage Contractor shall notify the Environmental Graphic Designer of any discrepancies in the submittal documents immediately and shall not proceed or allow any work in those areas until discrepancies are resolved.

13. The Work shall be in accordance with approved submittals except that the Signage Contractor shall not be relieved of responsibility for deviations from requirements of the Contract Documents by the Environmental Graphic Designer's approval of Shop Drawings, Product Data, Samples, Mock-Ups or similar submittals unless the Contractor has specifically informed the Environmental Graphic Designer in writing of such deviation at the time of submittal and (1) the Environmental Graphic Designer has given written approval to the specific deviation as a minor change in the Work, or (2) a Change Order or Construction Change Directive has been issued authorizing the deviation. The Signage Contractor shall not be relieved of responsibility for error or omissions in Shop Drawings, Product Data, Samples, Mock-Ups or similar submittals by the Environmental Graphic Designer's acceptance thereof.

14. The Signage Contractor shall be responsible for cutting, fitting or patching required to complete the Work or to make its parts fit together properly. The Signage Contractor shall not damage or endanger a portion of the Work or fully or partially completed construciton of the Owner or separate contractors by cutting, patching or otherwise altering such construction, or by excavation. The Signage Contractor shall not cut or otherwise alter such construction by the Owner or a separate contractor except with written consent of the Owner and of such separate contractor; such consent shall not be unreasonably withheld. The Signage Contractor shall not unreasonably withhold from the Owner or a separate contractor the Contractor's consent to cutting or otherwise altering the Work.

15. The Signage Contractor shall keep the premises and surrounding area free from accumulation of waste materials or rubbish caused by operations under the Contract. At completion of the Work, the Signage Contractor shall remove from and about the Project waste materials, rubbish, the Signage Contractor's tools, construction equipment, machinery and surplus materials. If the Signage Contractor fails to clean up as specified above, the Owner may do so and the cost thereof shall be charged to the Signage Contractor.

Drawings

1. Do not scale the drawings. All sign copy and graphics should be considered to be representative and are subject to change. Refer to final message schedule for final copy on all signs. Refer to location plans for final locations of all signs.

2. All dimensions are to the exterior face of the finished material unless otherwise noted. All elevations are noted from finish grade elevations.

3. All graphics and colors provided must conform to scale, specifications and PMS numbers where provided.

Materials and Fabrication

1. All materials shall be of new stock, free from defects impairing strength, durability, or appearance.

2. All aluminum fabrication shall be per the Contract Documents and all joints shall be welded, filled, ground, and sanded smooth prior to painting to ensure a uniform surface.

3. When dissimilar metals are in contact, the contacting surfaces shall be coated with asphaltic paint to prevent oxidation and electrolysis. Aluminum and steel are not to come in contact with each other.

4. Sign faces must be left clean and free of glue or other foreign material. Edges are to be routed smooth and straight.

5. All corners shall be 90° with crisp, clean edges unless otherwise specified.

6. All interior finish and trim materials are to meet Class III flame spread ratings of 76 to 200, or per applicable code.

Painting and Finishing

1. All aluminum materials shall be thoroughly sanded to remove oxidation and primed prior to painting and anodizing process. In the case of painting the aluminum, this is done to ensure maximum paint adhesion.

2. Primer coats or other surface pretreatment, where recommended by the manufacturer for paints, shall be included as part of the finished surface work at no extra cost to the owner.

3. All paints shall be evenly applied without pinholes, scratches, orange-peeling, application marks and other imperfections. Workmanship, finishes and formation of letters shall conform to the highest standards of the trade.

4. All baselines shall be horizontal on the sign face. Margins must be maintained as specified in the drawings.

5. Anchoring devices are to be adequate types of non-corrosive materials for securing signs to in-place structures.

Installation

1. Signage Contractor to supply General Contractor with mounting/structural requirements for all exterior signage. *General Contractor shall coordinate all trades required for installation of exterior signage and shall involve any necessary licensed engineers.* All connections from sign to structure to be paid for by Signage Contractor and designed by a licensed structural engineer.

2. All installations are to be level and plumb or will be deemed unacceptable.

3. Immediately after fabrication, Signage Contractor shall touch-up paint all field welds, bolted connections and abased areas of shop paint. If marred areas cannot be adequately touched up on site, the sign(s) will be returned to the shop for controlled refinishing.

4. The Signage Contractor shall provide all engineering required for exterior signage guaranteed for local conditions and codes.

Qualifiers

1. All design arrangements or plans indicated or represented by these drawings are instruments of service of LRK, and remain the sole property of LRK.

2. No ideas, designs, arrangements, or plans shall be disclosed to any other person, firm, or corporation for any purpose whatsoever without the express written consent of LRK.

3. All Artwork and Drawings are not to be reproduced or circulated for use outside the scope of this contract without written consent of LRK.

BID TABULATION

Sign Desc.	Sign Type	Page No.	Quantity	Notes
PARK RULES	PR.1	G200	2	
PRIMARY WAYFINDING	PW.1	G201	3	
AREA IDENTIFICATION	PI.1	G201	2	
PARK MAP	PM.1	G202	3	
SECONDARY WAYFINDING	PD.1	G202	1	
PET WASTE BAG DISPENSER	PB.1	G203	6	PAINTED ALUMINUM PANEL WITH APPLIED VINYLS; STANDARD UNIT POST (PROVIDED BY OTHER) TO BE PAINTED CUSTOM COLOR
SURFACE PARKING ID	PK.1	G203	3	
PARK EXHIBITION	PE.1	G203	2	
DESIGNATED PARKING	PP.1	G204	8	
STOP SIGN	R1.1	G204	-	CUSTOM FRAME AND MOUNTING
STOP SIGN WITH STREET ID	R1.2	G204	1	CUSTOM FRAME AND MOUNTING. 2 STREET NAME SIGNS. COPY TO BE PROVIDED AT CONSTRUCTION.
YIELD SIGN	R1.2	G204	1	ARTWORK TO BE PROVIDED AT CONSTRUCTION
YIELD HERE TO PEDESTRIANS SIGN	R1.5	G204	11	ARTWORK TO BE PROVIDED AT CONSTRUCTION
SPEED LIMIT	R2.1	G204	5	ARTWORK TO BE PROVIDED AT CONSTRUCTION
ONE RIGHT WAY	RG.1R	G204	4	ARTWORK TO BE PROVIDED AT CONSTRUCTION

P1 / V1 | P2 / V2 | P3 / V3 | P4 | P5

PAINT

P1	Matthews Paint 00613 (To Match PMS 4625)	Satin
P2	Matthews Paint 31689 (To Match PMS 7495)	Satin
P3	Matthews Paint 00750 (To Match PMS 5503)	Satin
P4	Matthews Paint 19894 (Stainless Steel Metallic)	Satin
P5	Matthews Paint 42359 (Vine Charcoal)	Satin

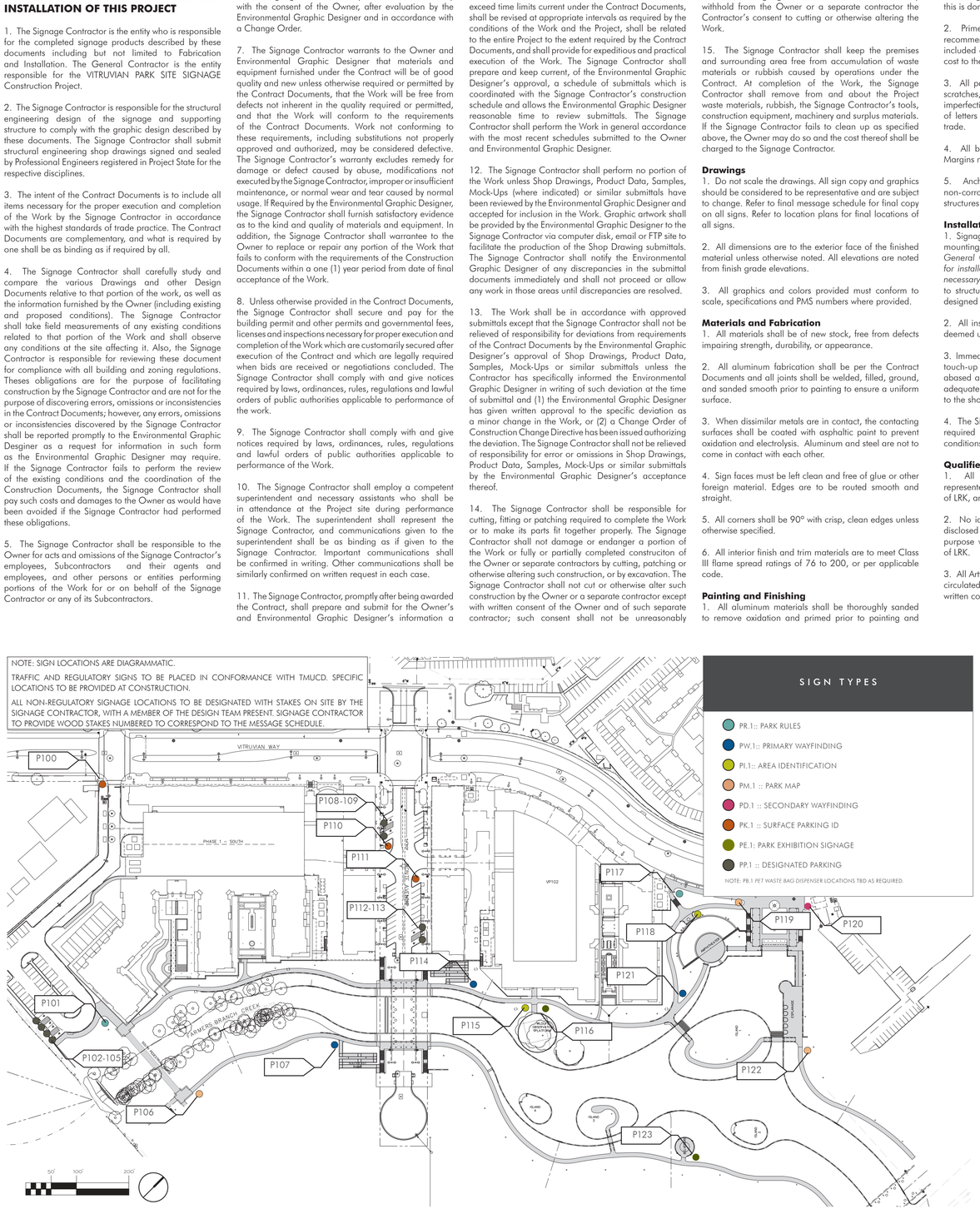
VINYL

V1	Oracal® Series 851 #810 (Cocoa Brown)
V2	Printed to match PMS 7495 (Green)
V3	Printed to Match PMS 5503 (Blue)
V4	Oralite® Series 5700 #010 (Reflective White)

NOTE: SIGN LOCATIONS ARE DIAGRAMMATIC.

TRAFFIC AND REGULATORY SIGNS TO BE PLACED IN CONFORMANCE WITH TMUCD. SPECIFIC LOCATIONS TO BE PROVIDED AT CONSTRUCTION.

ALL NON-REGULATORY SIGNAGE LOCATIONS TO BE DESIGNATED WITH STAKES ON SITE BY THE SIGNAGE CONTRACTOR, WITH A MEMBER OF THE DESIGN TEAM PRESENT. SIGNAGE CONTRACTOR TO PROVIDE WOOD STAKES NUMBERED TO CORRESPOND TO THE MESSAGE SCHEDULE.



1 Sign Location Plan
Scale: NTS

VITRUVIAN PARK
100% Design Intent Drawings

Message Schedule
01.09107.00

Location Number	Sign Type	Message	Face Orientation	Double Sided
P100	PK.1	STANDARD; SEE ARTWORK SHEET G203	NW	X
P101	PR.1	STANDARD; SEE ARTWORK SHEET G200	NW	
P102	PP.1	STANDARD; SEE ARTWORK SHEET G204	N	
P103	PP.1	STANDARD; SEE ARTWORK SHEET G204	N	
P104	PP.1	STANDARD; SEE ARTWORK SHEET G204	N	
P105	PP.1	STANDARD; SEE ARTWORK SHEET G204	N	
P106	PM.1	STANDARD; SEE ARTWORK SHEET G202	NW	
P107	PW.1	(UP ARROW) RAMP TO PONTE AVENUE (LEFT ARROW) AMPHITHEATER GROTTO (RIGHT ARROW) VISITOR PARKING	NW	
P108	PP.1	STANDARD; SEE ARTWORK SHEET G204	NE	
P109	PP.1	STANDARD; SEE ARTWORK SHEET G204	NE	
P110	PK.1	STANDARD; SEE ARTWORK SHEET G203	NE	X
P111	PK.1	STANDARD; SEE ARTWORK SHEET G203	SW	X
P112	PP.1	STANDARD; SEE ARTWORK SHEET G204	SW	
P113	PP.1	STANDARD; SEE ARTWORK SHEET G204	SW	
P114	PW.1	(UP ARROW) RAMP TO PONTE AVENUE (LEFT ARROW) VISITOR PARKING (RIGHT ARROW) WILDLIFE OBSERVATORY AMPHITHEATHER GROTTO RESTROOMS	SE	
P115	PI.1	WILDLIFE OBSERVATORY	NW	
P116	PE.1	STANDARD; SEE ARTWORK SHEET G203	NW	
P117	PR.1	STANDARD; SEE ARTWORK SHEET G200	N	
P118	PI.1	AMPHITHEATER	W	
P119	PM.1	STANDARD; SEE ARTWORK SHEET G202	NW	
P120	PD.1	(UNISEX ADA SYMBOL) (UP ARROW)	SW	
P121	PW.1	(RIGHT ARROW) AMPHITHEATER RESTROOMS (LEFT ARROW) WILDLIFE OBSERVATOR VISITOR PARKING RAMP TO PONTE DRIVE	S	
P122	PM.1	STANDARD; SEE ARTWORK SHEET G202	SW	
P123	PE.1	STANDARD; SEE ARTWORK SHEET G203	SE	

100% DESIGN INTENT DRAWINGS. NOT INTENDED FOR CONSTRUCTION.

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Colors are shown for reference only, and are subject to the limitations of the printing process. Refer to finish samples and/or color system swatches for accurate reference.

Messages shown in the drawings are for reference only. Refer to Message Schedule for actual messages required for each sign location.

WARNING

CONTRACTOR IS TO CONTACT TEXAS ONE-CALL SYSTEM (1-800-245-4545) OR OTHER UTILITY LOCATING SERVICES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES. ICON CONSULTING ENGINEERS, INC. IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES IN THE PROJECT AREA NOR FOR DEPICTING THE EXACT LOCATIONS OF UTILITIES ON THESE DRAWINGS.

BM #1 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE

1127' NORTH OF VITRUVIAN WAY.
BM #2 REF. ELEVATION = 547.84
SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF

VITRUVIAN WAY AND MARSH LANE.

NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

PARK SIGNAGE DESIGN INTENT GENERAL NOTES, LOCATION PLAN

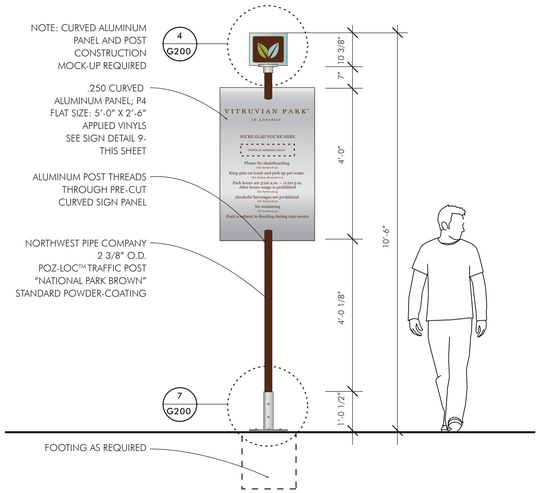
LRK
175 Toyota Plaza, Suite 600
Memphis, Tennessee 38103
Telephone 901.521.1440
Fax 901.525.2760
Internet www.lrk.com

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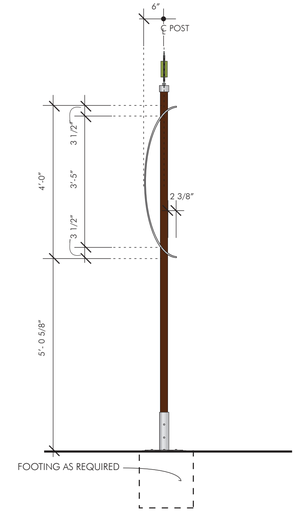
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
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PARK AND STREETSCAPE IMPROVEMENTS – VITRUVIAN PARK

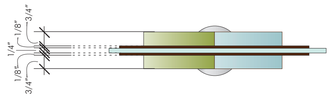
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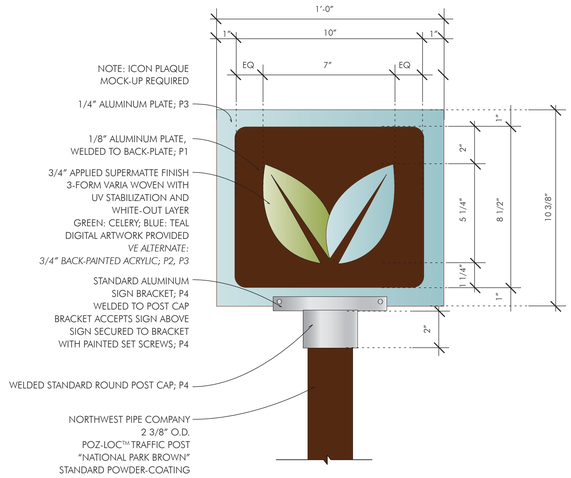
1 PR.1: FRONT ELEVATION
1/2"=1'-0"



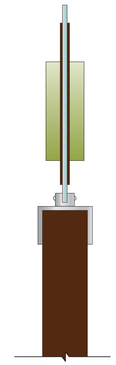
2 PR.1: SIDE ELEVATION
1/2"=1'-0"



3 TYPICAL ICON PLAQUE PLAN
3"=1'-0"



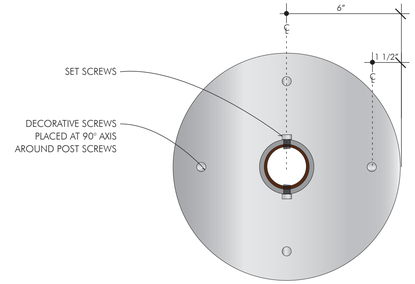
4 TYPICAL ICON PLAQUE FRONT ELEVATION
3"=1'-0"



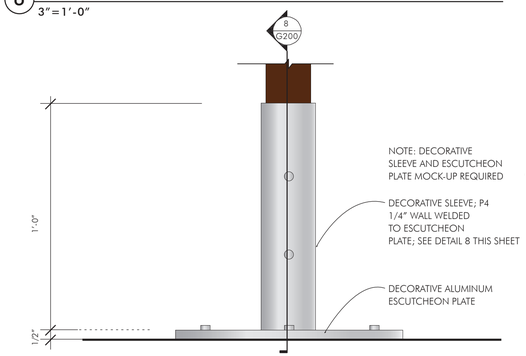
5 TYPICAL ICON PLAQUE SIDE ELEVATION
3"=1'-0"

SHEET NOTES:

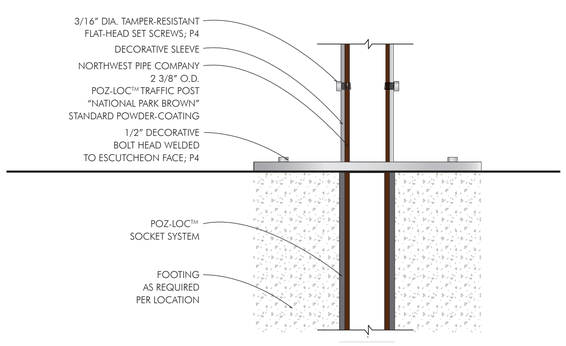
SEE G.100 FOR SIGN LOCATIONS
SAMPLES OF EACH MATERIAL, FINISH AS SPECIFIED, ARE REQUIRED
MOCK-UPS REQUIRED AS NOTED



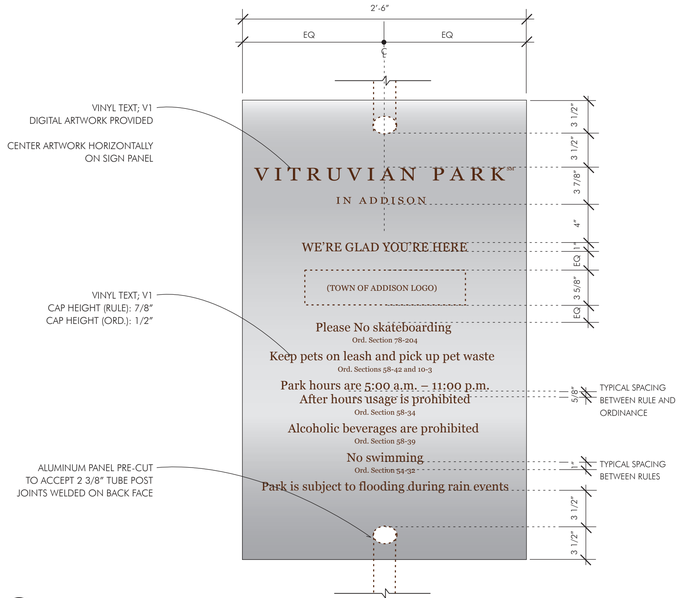
6 TYPICAL SLEEVE BASE PLAN
3"=1'-0"



7 TYPICAL SLEEVE BASE FRONT ELEVATION
3"=1'-0"



8 TYPICAL SLEEVE BASE SECTION
3"=1'-0"



9 PR.1: SIGN FACE DETAIL
1 1/2"=1'-0"

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NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

PARK SIGNAGE DESIGN INTENT PLANS AND ELEVATIONS

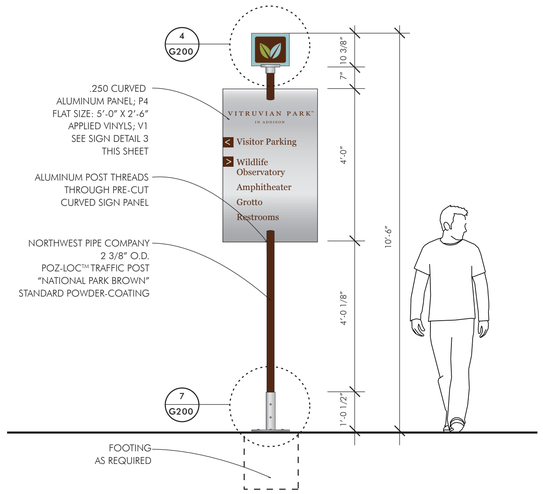
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Telephone 901.521.1440
Fax 901.525.2760
Internet www.lrk.com

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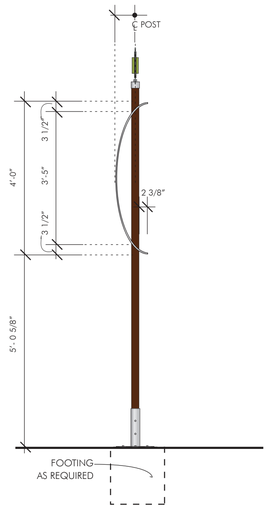
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5029-01	LR	LR	NOV 3, 2009	LRK 0109107-G200	G200

BID

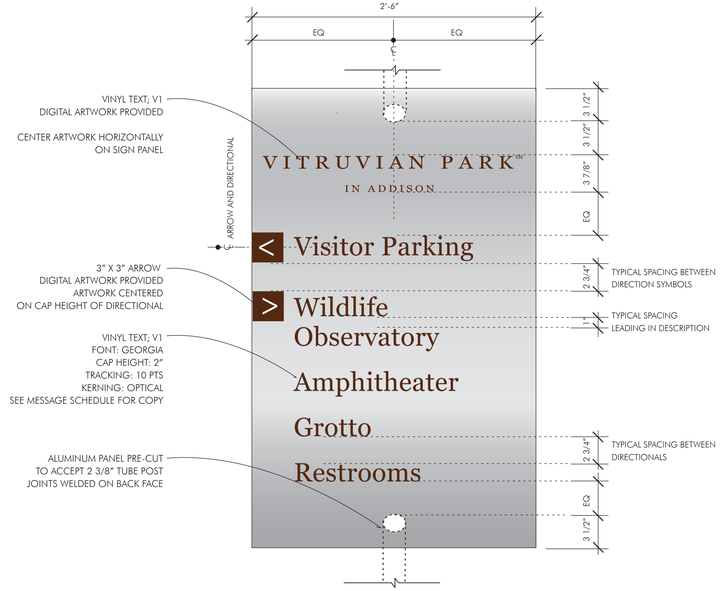
PARK AND STREETSCAPE IMPROVEMENTS – VITRUVIAN PARK



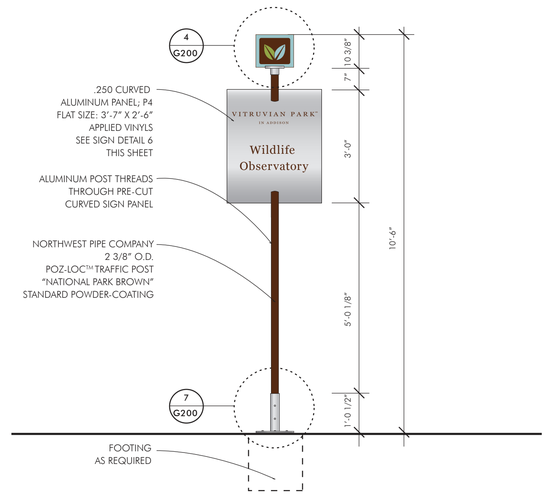
1 PW.1: FRONT ELEVATION
1/2"=1'-0"



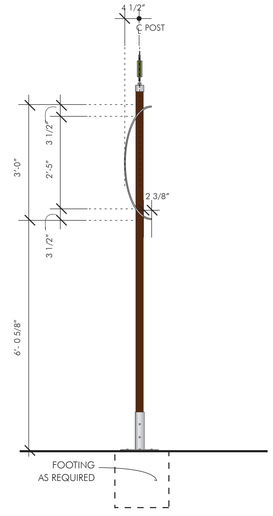
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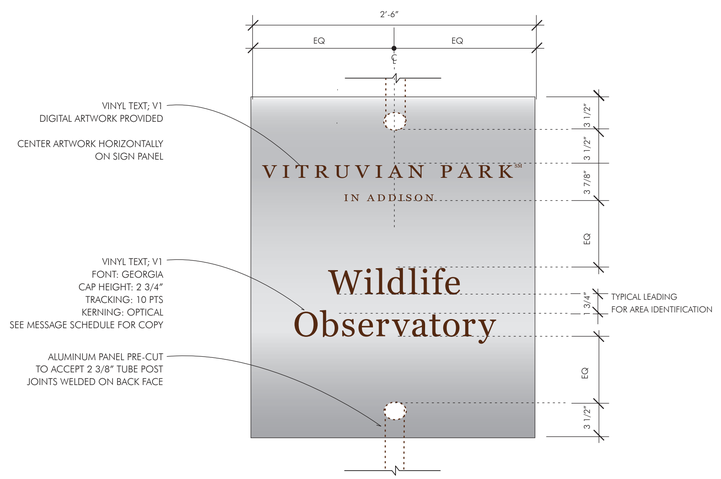
3 PW.1: SIGN FACE DETAIL
1 1/2"=1'-0"



4 PI.1: FRONT ELEVATION
1/2"=1'-0"



5 PI.1: SIDE ELEVATION
1/2"=1'-0"



6 PI.1: SIGN FACE DETAIL
1 1/2"=1'-0"

SHEET NOTES:

SEE G.100 FOR SIGN LOCATIONS
SAMPLES OF EACH MATERIAL, FINISH AS SPECIFIED, ARE REQUIRED
MOCK-UPS REQUIRED AS NOTED

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SQUARE CUT IN TOP OF CURB, NORTH MEDIAN END NOSE, AT INTERSECTION OF

VITRUVIAN WAY AND MARSH LANE.

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

PARK SIGNAGE DESIGN INTENT PLANS AND ELEVATIONS

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PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	LR	LR	NOV 3, 2009	LRK 0109107-G201	G201

BID

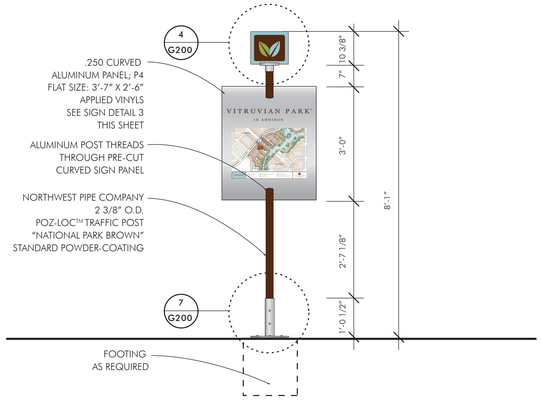
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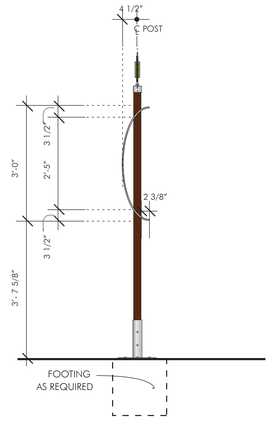
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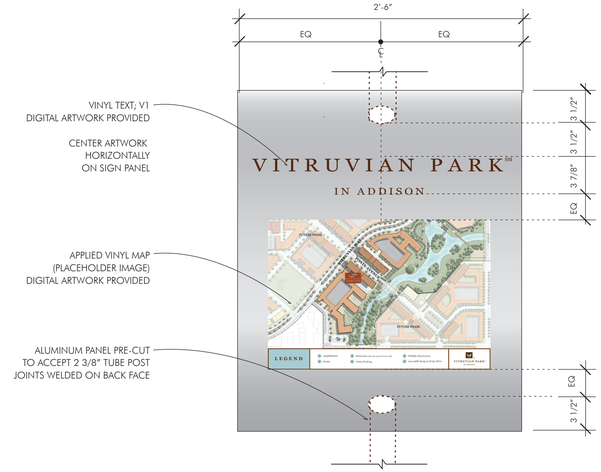
1 PM.1: FRONT ELEVATION

1/2"=1'-0"



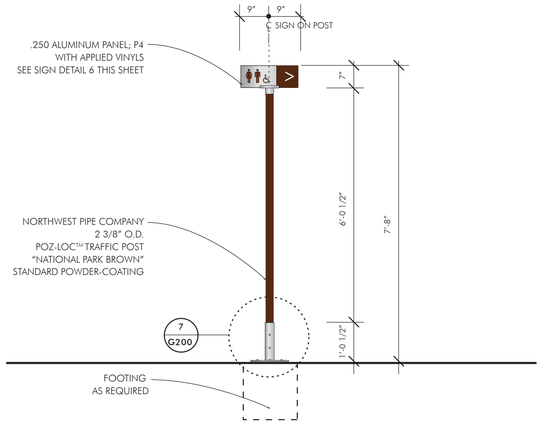
2 PM.1: SIDE ELEVATION

1/2"=1'-0"



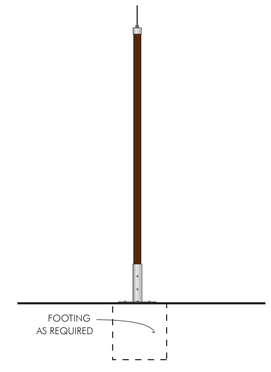
3 PM.1: SIGN FACE DETAIL

1 1/2"=1'-0"



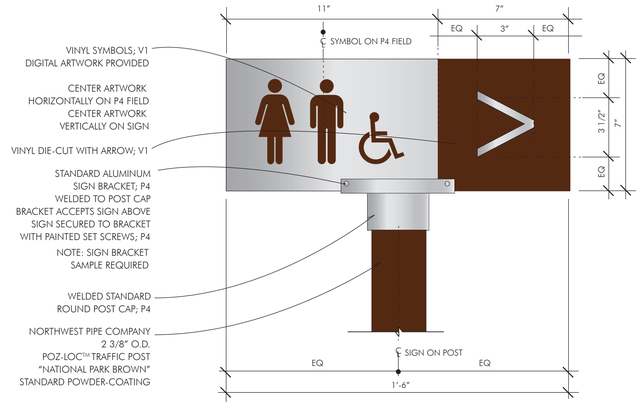
4 PD.1: FRONT ELEVATION

1/2"=1'-0"



5 PD.1: SIDE ELEVATION

1/2"=1'-0"



6 PD.1: SIGN FACE DETAIL

3"=1'-0"

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VITRUVIAN PARK

PARK SIGNAGE DESIGN INTENT PLANS AND ELEVATIONS

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PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	LR	LR	NOV 3, 2009	LRK 0109107-G202	G202

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

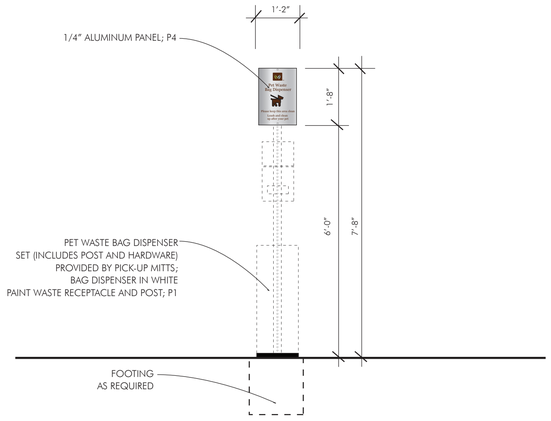
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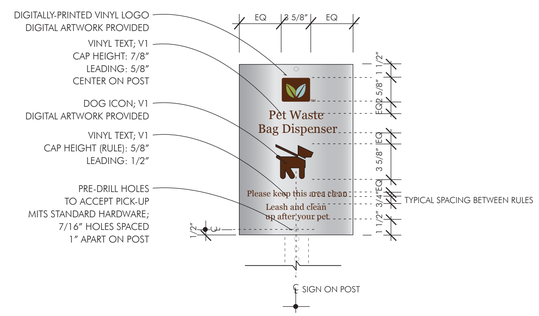
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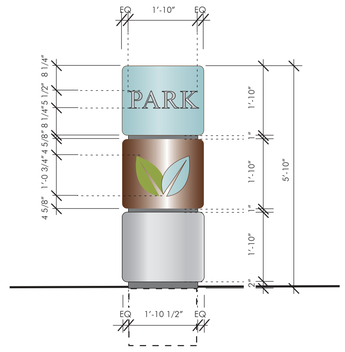
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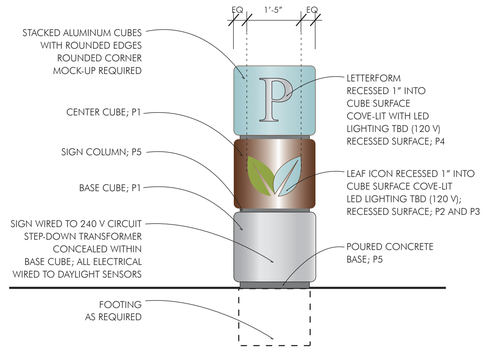
1 PB.1: FRONT ELEVATION
1/2"=1'-0"



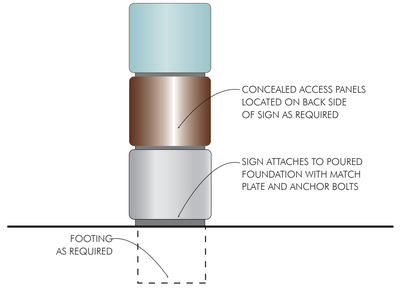
2 PB.1: DETAIL
1 1/2"=1'-0"



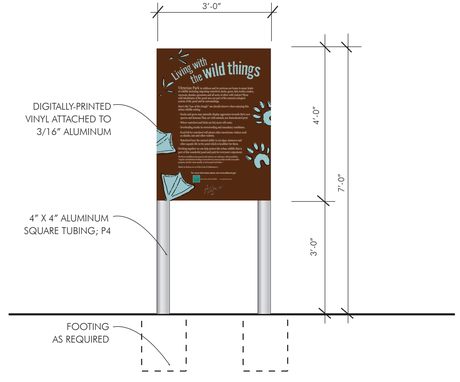
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1/2"=1'-0"



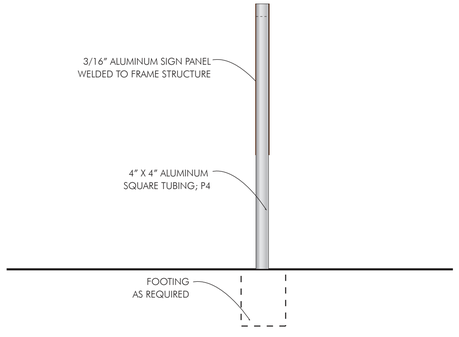
4 PK.1: SIDE ELEVATION
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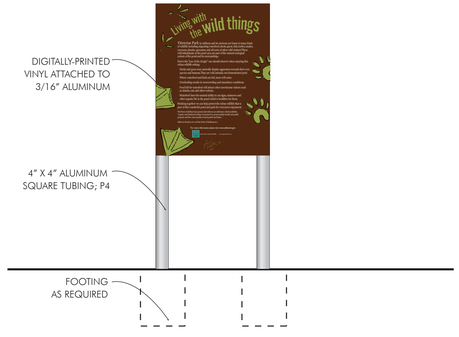
5 PK.1: BACK ELEVATION
1/2"=1'-0"



6 PE.1: FRONT ELEVATION
1/2"=1'-0"



7 PE.1: FRONT ELEVATION
1/2"=1'-0"



8 PE.1: BACK ELEVATION
1/2"=1'-0"

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VITRUVIAN WAY AND MARSH LANE.

NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

PARK SIGNAGE DESIGN INTENT PLANS AND ELEVATIONS

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PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	LR	LR	NOV 3, 2009	LRK 0109107-G203	G203

BID

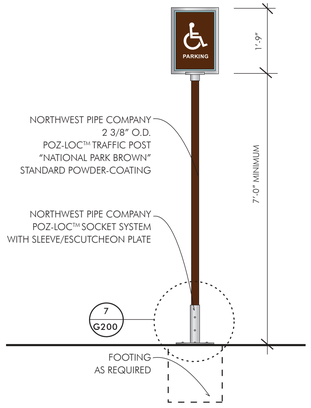
PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

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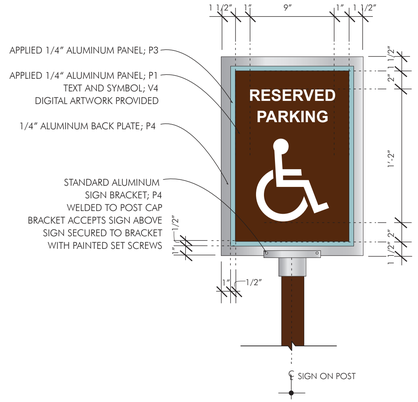
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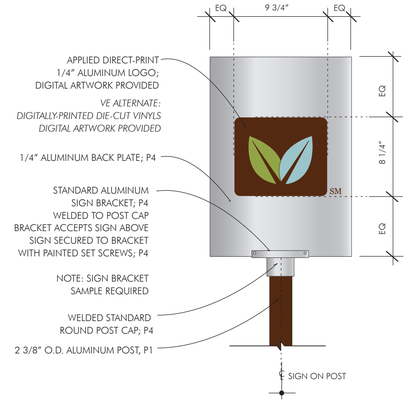
MOCK-UPS REQUIRED AS NOTED



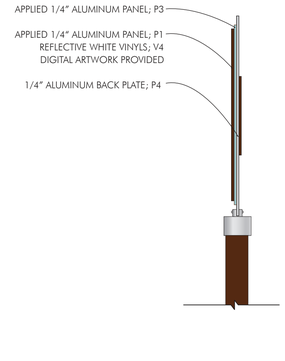
1 PP.1: FRONT ELEVATION
1/2"=1'-0"



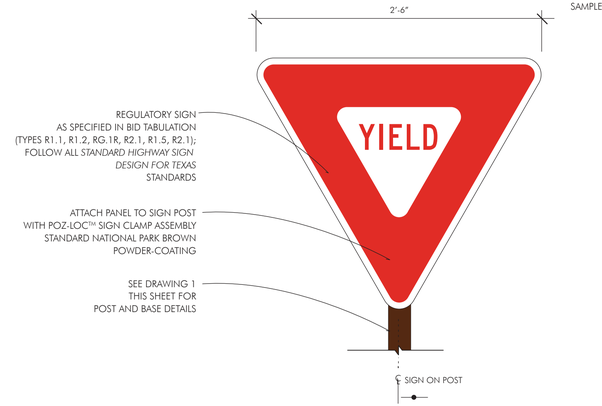
2 PP.1: SIGN FACE DETAIL
1 1/2"=1'-0"



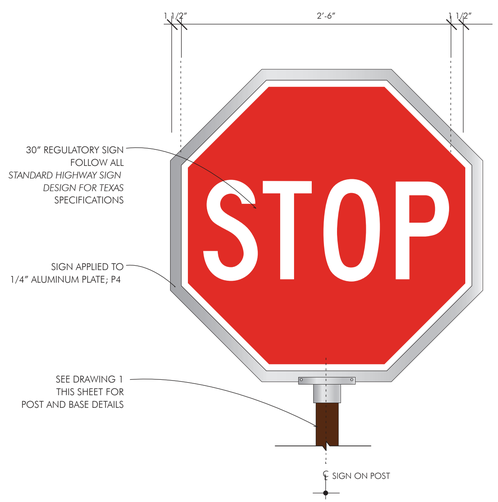
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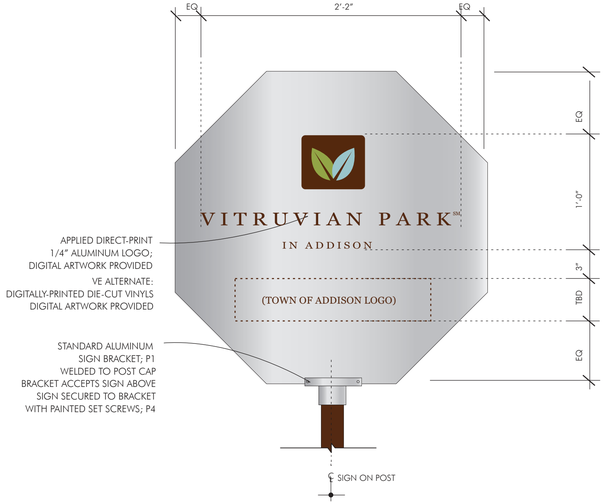
4 PP.1: SIGN SIDE ELEVATION DETAIL
1 1/2"=1'-0"



5 REGULATORY SIGN POST ATTACHMENT
1 1/2"=1'-0"



6 R1.1: SIGN FACE DETAIL
1 1/2"=1'-0"



7 R1.1: SIGN BACK FACE DETAIL
1 1/2"=1'-0"



8 R1.2: SIGN FACE DETAIL
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NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

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VITRUVIAN PARK

PARK SIGNAGE DESIGN INTENT PLANS AND ELEVATIONS

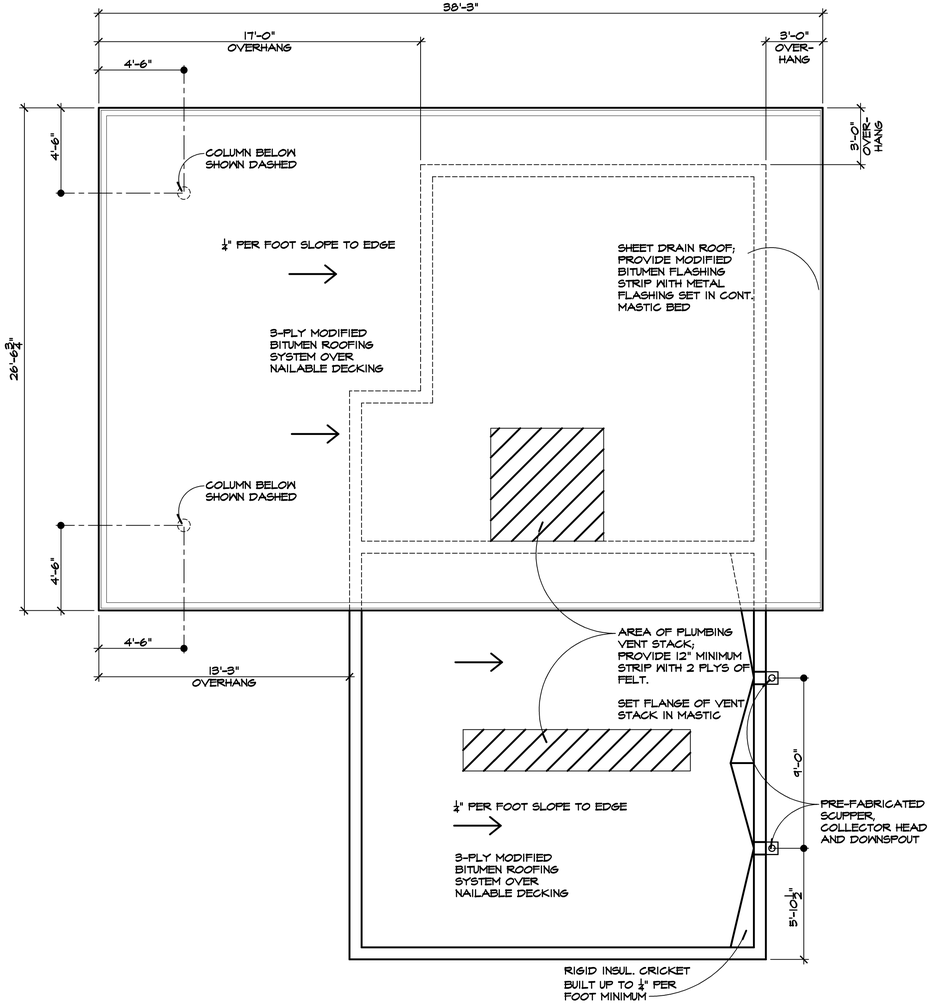
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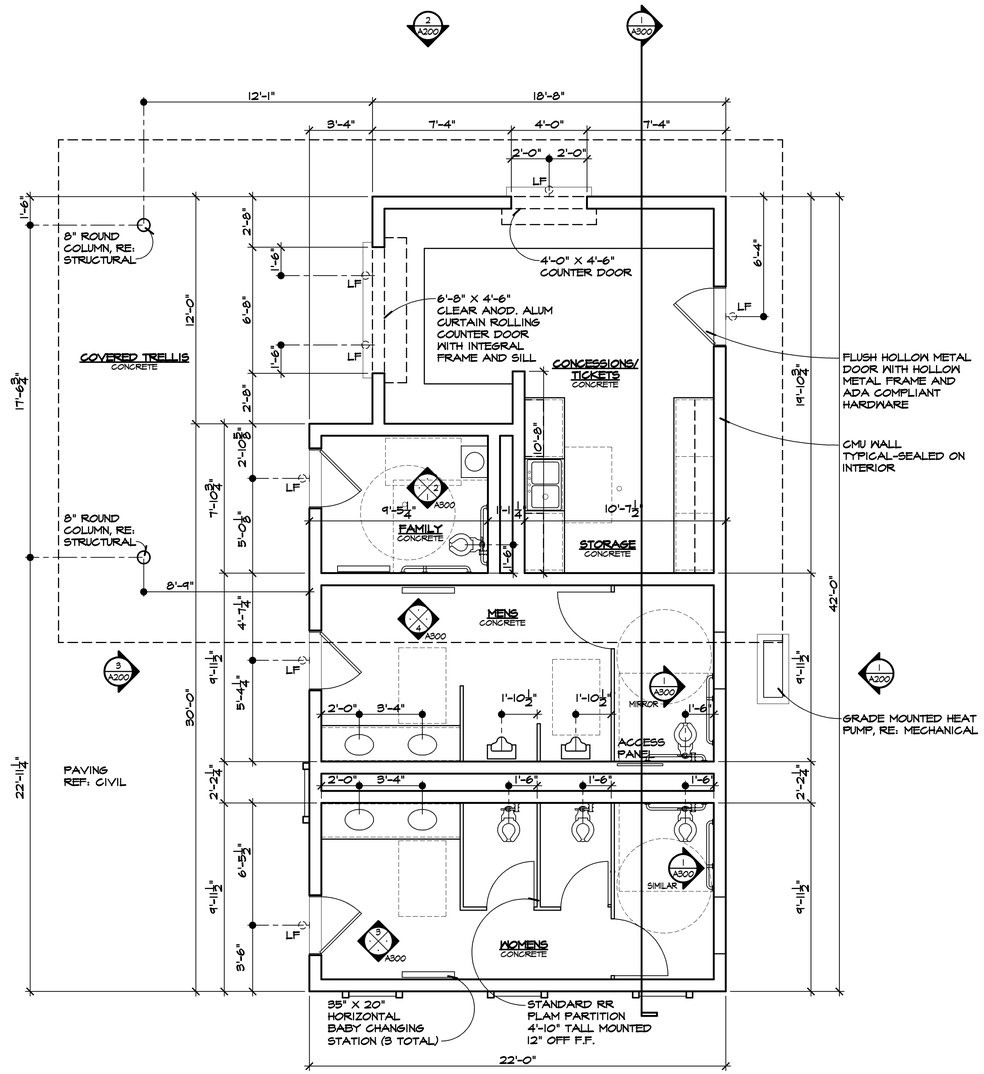
PARK AND STREETSCAPE IMPROVEMENTS – VITRUVIAN PARK

BID



② ROOF PLAN

1/4" = 1'-0" ACAD



① FLOOR PLAN

1/4" = 1'-0" ACAD

PLAN NOTES:

1. REFER CIVIL DRAWINGS FOR LOCATION AND SITEING OF BUILDING
2. ALL WALLS ARE CMU WITH A WIDTH OF 7⅝" NOMINAL
3. ALL FLOORS ARE SEALED CONCRETE FLOORS THROUGHOUT
4. ALL INTERIOR WALLS ARE SEALED CMU
5. REFERENCE MEP DRAWINGS FOR FLOOR DRAINS RESTROOM
6. ALL ELECTRICAL OUTLETS TO BE MOUNDED 15" FROM FINISH FLOOR
7. ALL ELECTRICAL SWITCHES TO BE MOUNTED 48" FROM FINISH FLOOR
8. ALL ELECTRICAL OUTLETS ABOVE COUNTER TOPS TO BE G.F.C.I. AND MOUNTED AT LEAST 3' FROM CORNER OF THE ROOM.

CODE SUMMARY:

Applicable Codes:

Building: 2006 International Building Code w/ Town of Addison Amendments
Structural: 2006 International Building Code w/ Town of Addison Amendments
Plumbing: 2006 International Plumbing Code w/ Town of Addison Amendments
Gas: 2006 International Plumbing Code w/ Town of Addison Amendments
Mechanical: 2006 International Mechanical Code w/ Town of Addison Amendments
Electrical: 2006 National Electric Code w/ Town of Addison Amendments
Fire: 2006 International Fire Code w/ Town of Addison Amendments
Energy Code: 2006 International Energy Conservation Code w/ 2001 Amendments
Accessibility: Texas Accessibility Standards (TAS)
Federal Fair Housing Standards Revised 1988 (FHA)
Americans with Disability Act Accessibility Guidelines (ADA)

2006 International Building Code

Use and Occupancy Classification

302.1 Occupancy Classification:

Business Group B= - Section 309.1-
Exception 1 Group A with less than 50 persons occupant load can be Group B

Allowable Heights & Areas (Table 503):

Type VB Construction	Height (Stories)	Area (Sq. Ft.)
Group B allowed	2	9000
As Designed	1 Story	7156 Sq. Ft.

Types of Construction

Fire Resistance Rating Requirements for Building Elements (Table 601)

Building Element	Type VB Rating
Structural Frame including:	
Columns, Girders/Beams/Trusses	0 hr
Exterior Bearing Walls	0 hr
Exterior Non-Bearing Walls (Table 602)	0 hr < 5'
	1 hr ≥ 5' & < 10'
	1 hr ≥ 10' & ≤ 30'
	0 hr ≥ 30'
Interior Bearing Walls	0 hr
Interior Non-Bearing Walls and Partitions	0 hr
Floor & Floor/Ceiling Assemblies	0 hr
Roof & Roof/Ceiling Assemblies	0 hr

Fire Resistant Materials & Construction

704.8 Protection of Openings

Fire Protection Systems:

Town of Addison amendments sec. 18-65
The International Building Code is amended by changing section 903.2 to read as follows:
903.2 Sprinklers required. An approved automatic fire sprinkler system shall be installed as follows
(1) In all buildings of any area, size or occupancy built, added to after December 8, 1992.

906 Portable Fire Extinguishers
Selected, installed and maintained per International Fire Code 906 and NAPA 10. Extinguishers to be rated minum of 2A20B and located as indicated on drawings.

907.2.1 Group B. A manual fire alarm system shall be installed in Group A occupancies having an occupant load of 500 or more.

Means of Egress:

1004 Occupant Load (Table 1004.1.2):

Locker Room (and Business Area):
50 gross square foot per occupant (794 / 50 gross = 16 occupants)

1004.2 Posting of occupancy load. Every room or space that is an assembly occupancy shall have the occupant load of the room or space posted in a conspicuous place, near the main exit or exit access doorway from the room or pace. Posted signs shall be of an approved legible permanent design and shall be maintained by the owner or authorized agent.

1005 Egress Width
In accordance with Table 1005:

without sprinkler system: 0.15 per occupant

1008 Doors, Bates and Turnstiles
Min. clear opening of exit doors = 32" per 1008.1.1 and ANSI.
Egress doors shall be side-hinged swinging type (1008.1.2)
Floor Elevation at floor surfaces on both sides of door shall not vary by more than 1/2" (1008.1.5) and to be level surface as required by ANSI 404.2.4.5. Elevation to be maintained on both sides for a width equal to widest leaf. thresholds at door shall not be greater than 1/2", thresholds & floor level changes at doors greater than 1/4" shall be beveled with a slope not steeper than 1:2. (ANSI)

1008.1.8.3 Locks and Latches shall be permitted to prevent operation of doors where any of the following exists.
2. In buildings in a occupancy Group I having an occupant load of 500 or less, Groups B,F,M and S, and in places of religious worship, the main exterior door or doors are permitted to be equipped with key-locking devices from the egress side provided:
2.1 The locking device is readily distinguished as locked
2.2 A readily Visible durable sign is posted on the egress side on or adjacent to the door stating: THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED. The sign shall be in letters 1 inch high on a contrasting background.
2.3 The use of the key operated locking device is revocable by the building official for due cause.

1009.1.4 Panic and fire exit hardware
Is Not Required for Group B Occupancy

1011 Exit signs

1011.1 Where required. Exits and exit access door shall be marked by an approved exit sign readily visible from any direction of egress travel. Access to exits shall be marked by readily visible exit sign in cases where the exit or the path of egress travel is not immediately visible to the occupants.

exception 2. Main exterior doors or gates that are obviously and clearly identifiable as exits need not have exit signs where approved by the building official.

1014.2 Exit Access
Egress through intervening spaces. Egress through intervening spaces shall comply with this section
1. Egress from a room or space shall not pass through adjoining or intervening rooms or areas, except where such adjoining rooms or areas are accessory to the area served, are not a high-hazard occupancy and provide a discernible path of egress travel to an exit.

1015 Exit and Exit Access Doorways required. Two exits or exit access doorways from any space shall be provided where one of the following conditions exist:
1. The occupant load of the space exceeds the values in Table 1015.1

Table 1015.1 spaces with one means of egress
Occupancy B: maximum occupancy Load 49

1014 Number of Exits and Continuity
Minimum number of exits = 1 (Table 1014.1/exception Table 1015)

Plumbing Systems

Section 2902 Minimum Plumbing Facilities

Table 2902.1

Occupancy B
rubber closets - Male: 1 per 25 Female: 1 per 25
Lavatories - Male/Female: 1 per 40
Drinking fountains - 1 per 100
service sink - 1

2902.2 Separate facilities. Where plumbing fixtures are required, separate facilities shall be provided for each sex.

TEXAS ACCESSIBILITY STANDARDS

4.1.5 Accessible Buildings: Additions. Each addition to an existing building or facility shall be regarded as an alteration. Each space or element added to the existing building or facility shall comply with the applicable provisions of 4.1.1 to 4.1.3, Minimum Requirements (for New Construction) and the applicable technical specifications of 4.2 through 4.35 and sections 5 through 10. Each addition that, affects or could affect the usability of an area containing a primary function shall comply with 4.1.6(2).

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NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

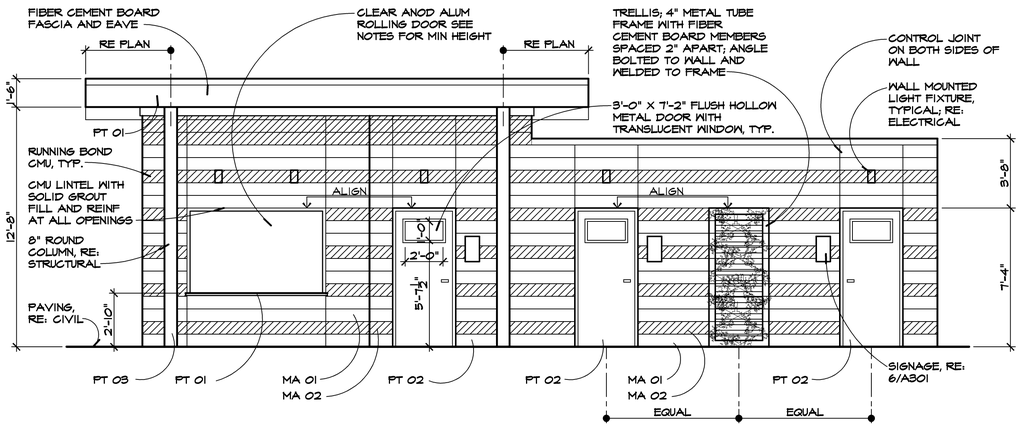
PLANS

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
	BIB	BIB	NOV 3, 2009 BID	01.09100.00	A100

REGISTERED ARCHITECT PAIGE C. CLOSE

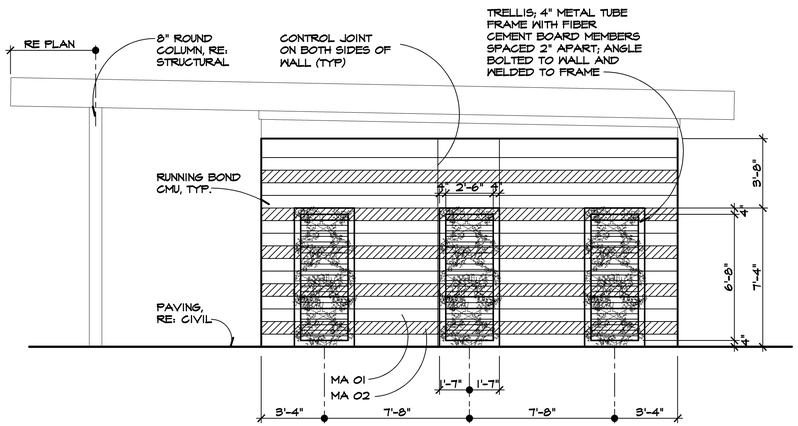
11.03.09

PARK AND STREETSCAPE IMPROVEMENTS – VITRUVIAN PARK



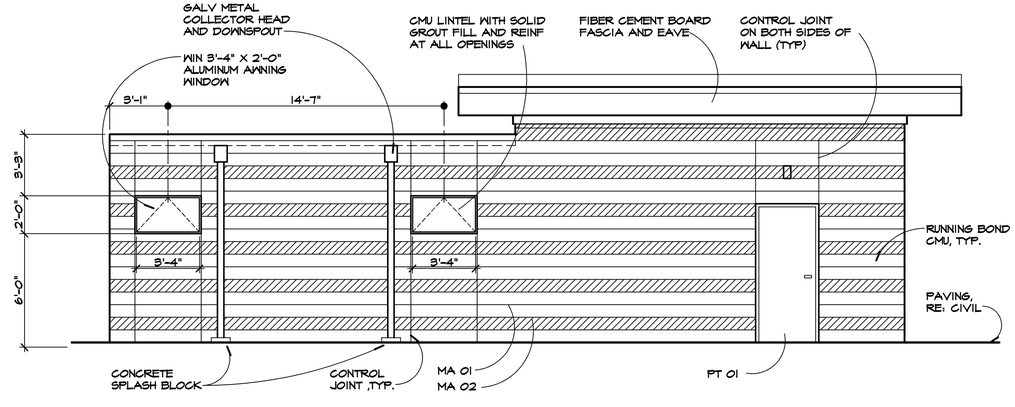
3 SOUTH ELEVATION

1/4" = 1'-0" ACAD



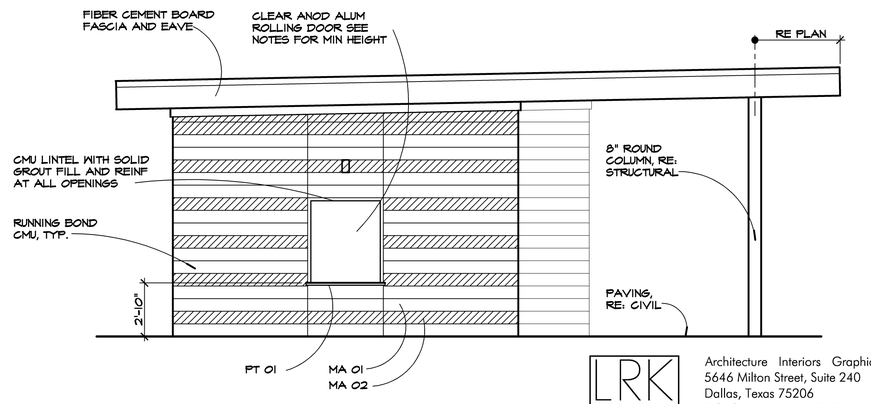
4 WEST ELEVATION

1/4" = 1'-0" ACAD



1 NORTH ELEVATION

1/4" = 1'-0" ACAD



2 EAST ELEVATION

1/4" = 1'-0" ACAD

MATERIAL	TYPE	FINISH	COLOR
• MA 01	MASONRY TYPE 1	SMOOTH FACE	8x16 BLANCO
• MA 02	MASONRY TYPE 2	SPLIT FACE	8x16 BLANCO
• PT 01	PAINT TYPE 1	T.B.S	T.B.S
• PT 02	PAINT TYPE 2	T.B.S	T.B.S
• PT 03	PAINT TYPE 3	T.B.S	T.B.S



11.03.09

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NO.	REVISION	BY	DATE

Addison

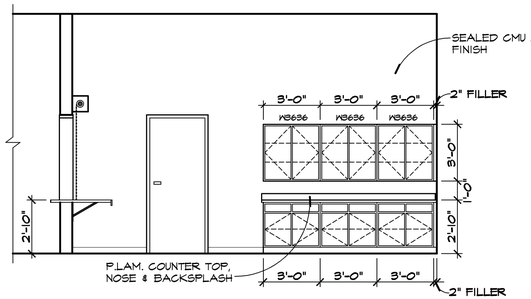
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

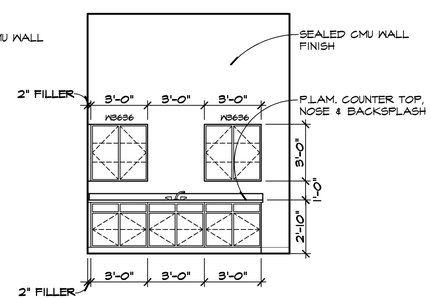
ELEVATIONS

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
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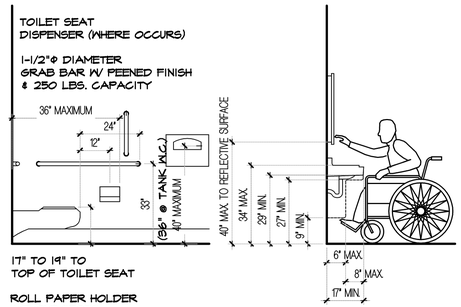
PARK AND STREETSCAPE IMPROVEMENTS – VITRUVIAN PARK



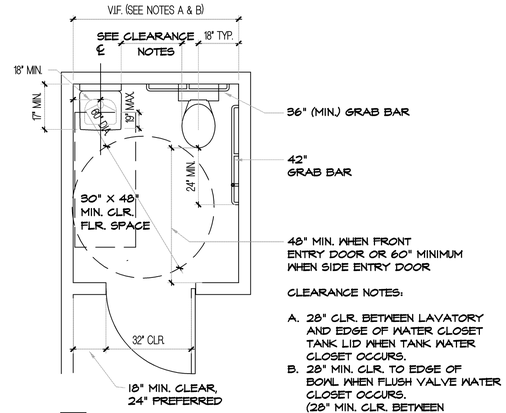
5 CABINET ELEVATION
1/4" = 1'-0" ACAD



6 CABINET ELEVATION
1/4" = 1'-0" ACAD

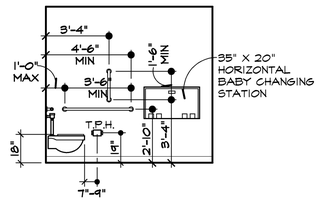


B ELEVATIONS

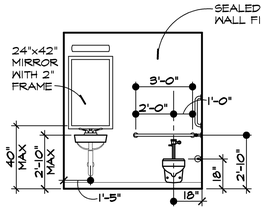


A PLAN

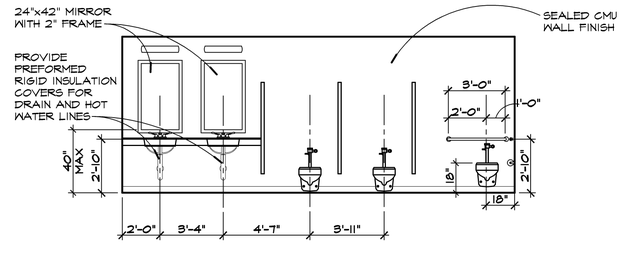
7 ACCESSIBLE RESTROOM DIMENSION CONTROL
NTS ACAD



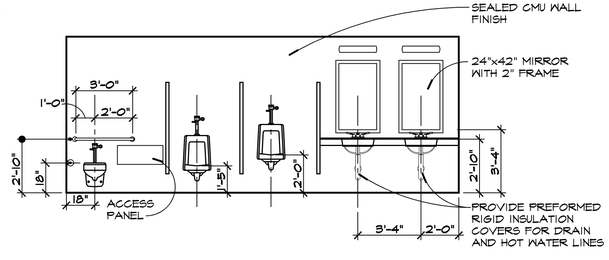
1 FAMILY BATHROOM ELEVATION
1/4" = 1'-0" ACAD



2 FAMILY BATHROOM ELEVATION
1/4" = 1'-0" ACAD



3 WOMEN'S BATHROOM ELEVATION
1/4" = 1'-0" ACAD



4 MEN'S BATHROOM ELEVATION
1/4" = 1'-0" ACAD

11.03.09

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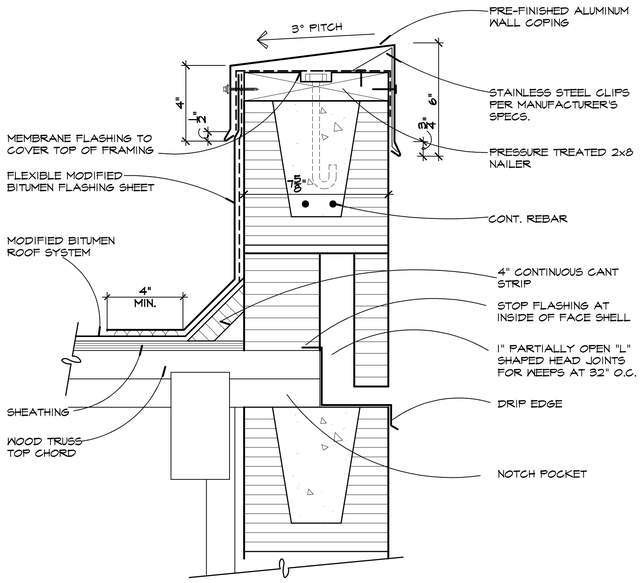
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

INTERIOR ELEVATIONS

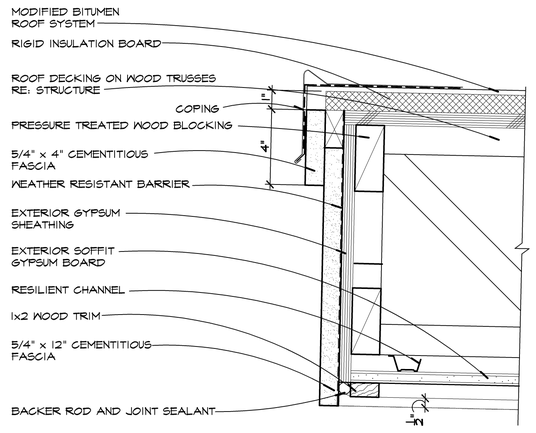
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
	BIB	BIB	NOV 3, 2009 BID	01.09100.00	A300

PARK AND STREETSCAPE IMPROVEMENTS – VITRUVIAN PARK



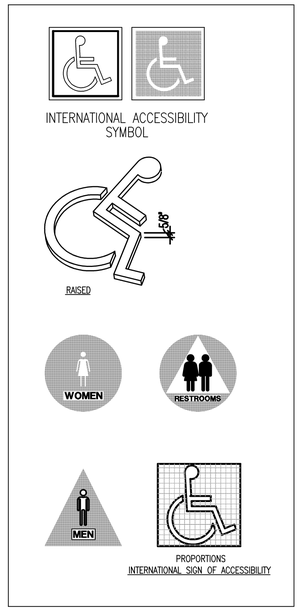
4 PARAPET DETAIL

3" = 1'-0" ACAD



5 OVERHANG DETAIL

3" = 1'-0" ACAD



6 BUILDING SIGNAGE REQUIREMENT

NTS ACAD

LETTERS AND NUMBERS:

1. LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE. (SEC. 1117B.5.6.1)
2. RAISED CHARACTERS OR SYMBOLS SHALL BE A MINIMUM OF 5/8" HIGH. (SEC. 1117B5.6.2)
3. PICTORIAL SYMBOL SIGNS (PICTOGRAMS) SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE A MINIMUM OF 6" IN HEIGHT. (SEC. 1117B.5.6.3)
4. LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10. (SEC. 1117B.5.3)
5. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND. (SEC. 1117B.5.5)
6. CHARCTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT IS MEASURED USING AN UPPER CASE X. LOWER CASE CHARACTERS ARE PERMITTED. FOR SIGNS SUSPENDED OR PROJECTED ABOVE THE FINISH FLOOR IN COMPLIANCE WITH SECTION 1121B, THE MINIMUM CHARACTER HEIGHT SHALL BE 3". (SEC. 1117B.5.4)
7. CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE SYMBOLS ARE SPECIFICALLY REQUIRED IN OTHER PORTIONS OF THESE REGULATIONS. DOTS SHALL BE 1/10" ON CENTERS IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MINIMUM OF 1/40" ABOVE THE BACKGROUND. (SEC. 1117B.5.2)

SIGN LOCATIONS:

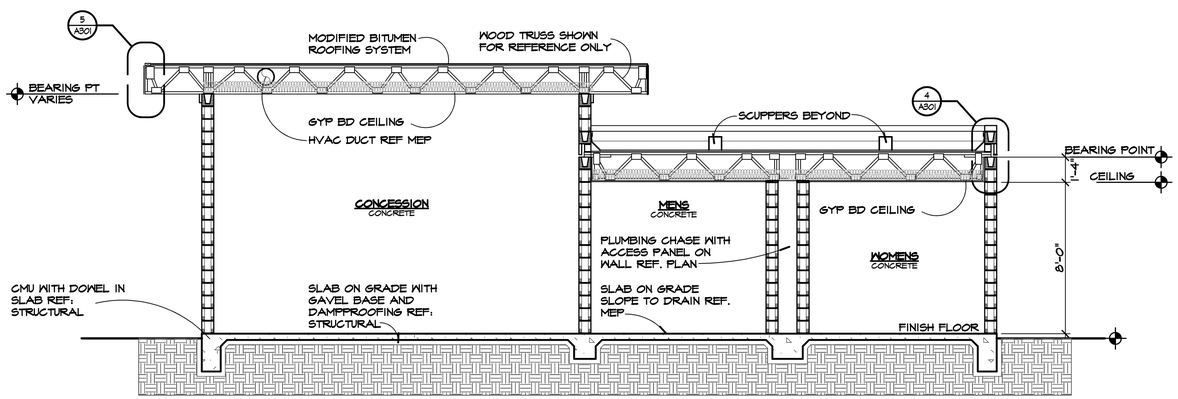
8. ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS. (SEC. 1117B.5.7 & 1127B.3)
9. WHEN PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, RAISED LETTERS SHALL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE WITH SECTION 1117B.5.6. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH OUTSIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT LEAF DOORS, SIGNS SHALL BE PLACE ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION SHALL BE DETERMINED SO THAT THE PERSON MAY APPROACH WITHIN 3" OF THE SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR. (SEC. 1117B.5.9)

INTERNATIONAL SYMBOL OF ACCESSIBILITY:

12. STANDARD USED TO IDENTIFY ACCESSIBLE FACILITIES.
13. WHITE FIGURE ON BLUE BACKGROUND, COLOR # 15090 ON FEDERAL STANDARD # 595A.
14. WHEN ENFORCING AGENCY DETERMINES, IF APPROPRIATE, SPECIAL DESIGNS AND COLORS MAY BE APPROVED.

BRAILLE:

15. USE CONTRASTED GRADE 2 BRAILLE. DOTS TO BE 0.1 INCH ON CENTER IN EACH CELL.
16. 0.2 INCH SPACE BETWEEN CELLS.
17. DOTS RAISED MINIMUM 0.025 INCH ABOVE BACKGROUND.
18. SEE 4/T-4 FOR MORE INFO.



1 BUILDING SECTION

1/4" = 1'-0" ACAD

11.03.09

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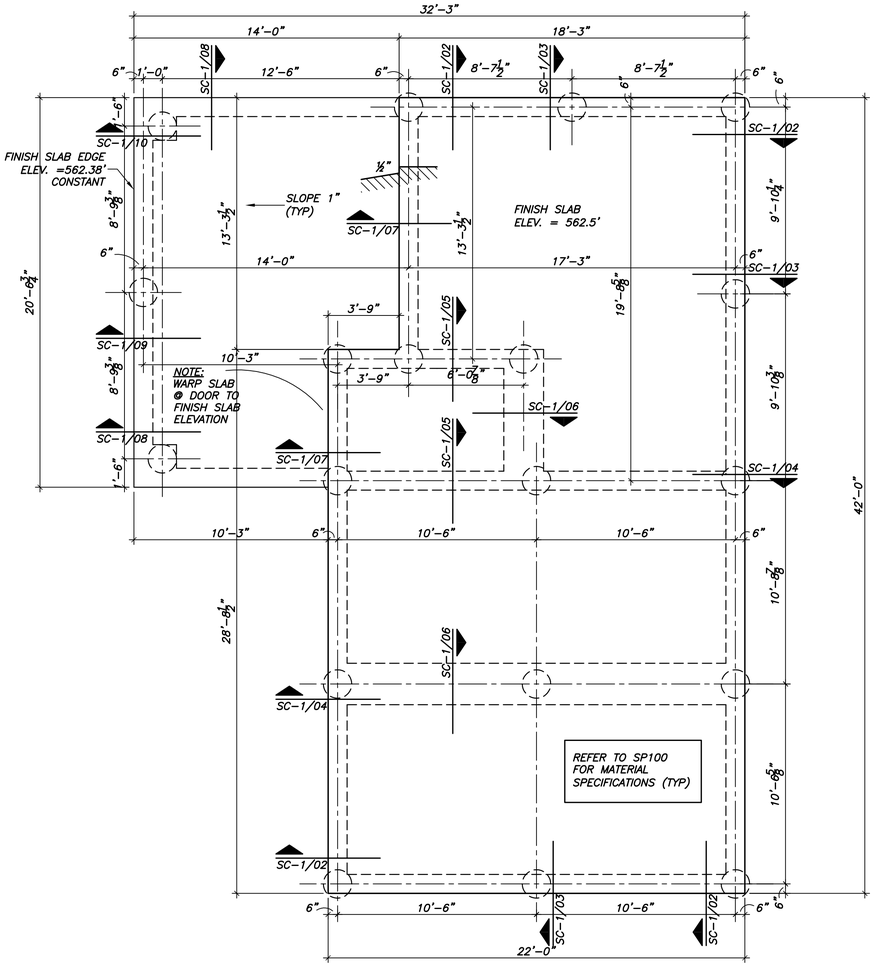
Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

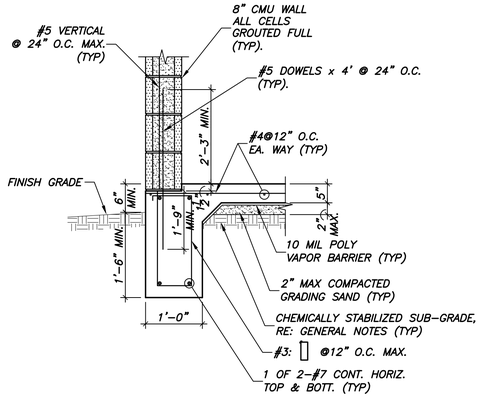
SECTION & DETAILS

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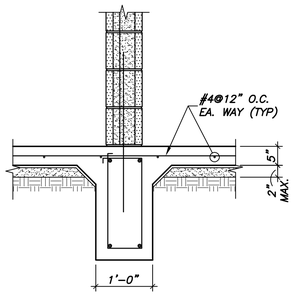
PARK AND STREETSCAPE IMPROVEMENTS – VITRUVIAN PARK



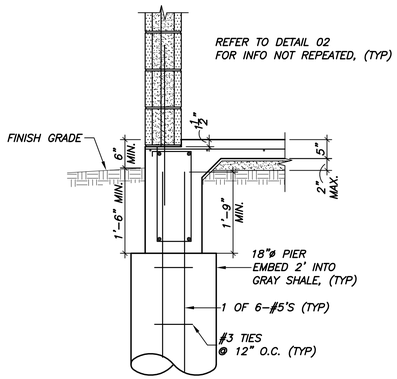
01 CONCESSION FOUNDATION PLAN
¼"=1'-0"



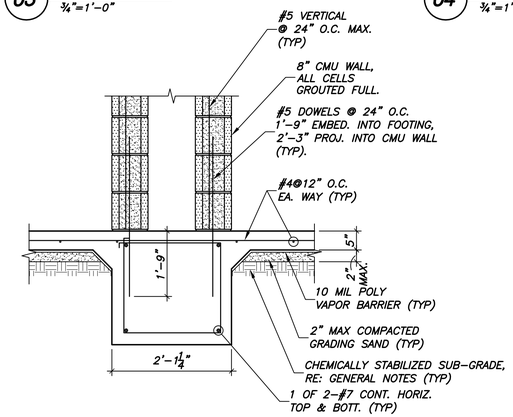
02 SECTION
¾"=1'-0"



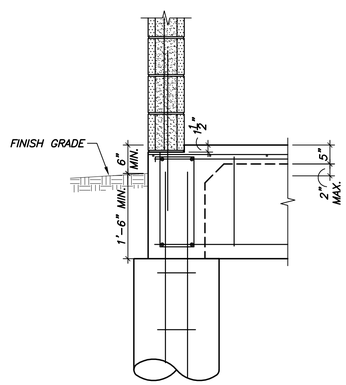
05 SECTION
¾"=1'-0"



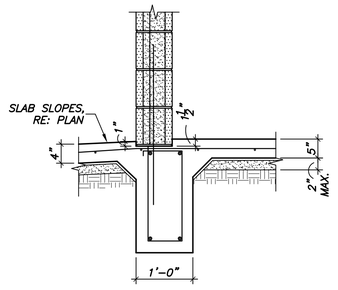
03 SECTION
¾"=1'-0"



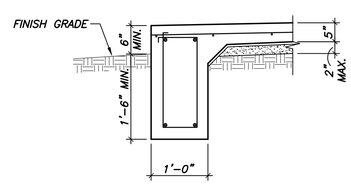
06 SECTION
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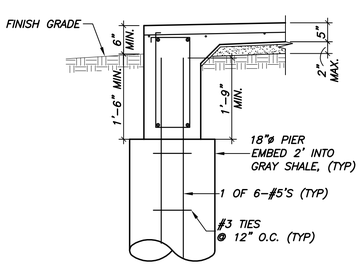
04 SECTION
¾"=1'-0"



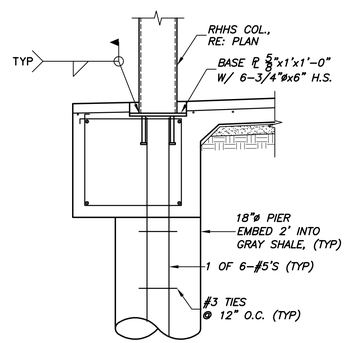
07 SECTION
¾"=1'-0"



08 SECTION
¾"=1'-0"



09 SECTION
¾"=1'-0"



10 SECTION
¾"=1'-0"

STATE OF TEXAS
VICTOR LISSIAK, JR.
30555
LICENSED PROFESSIONAL ENGINEER
11/03/09
TEXAS FIRM REG. # F-2658

ISSUED FOR BID

NO.	REVISION	BY	DATE

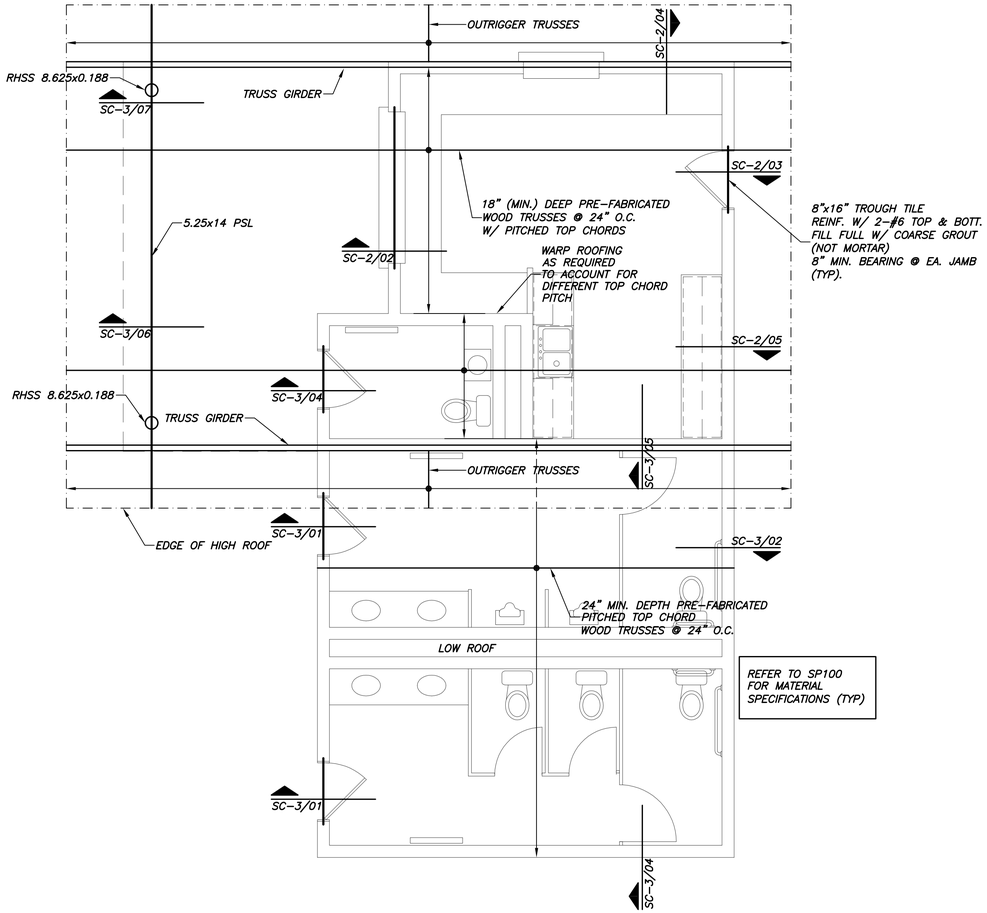
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

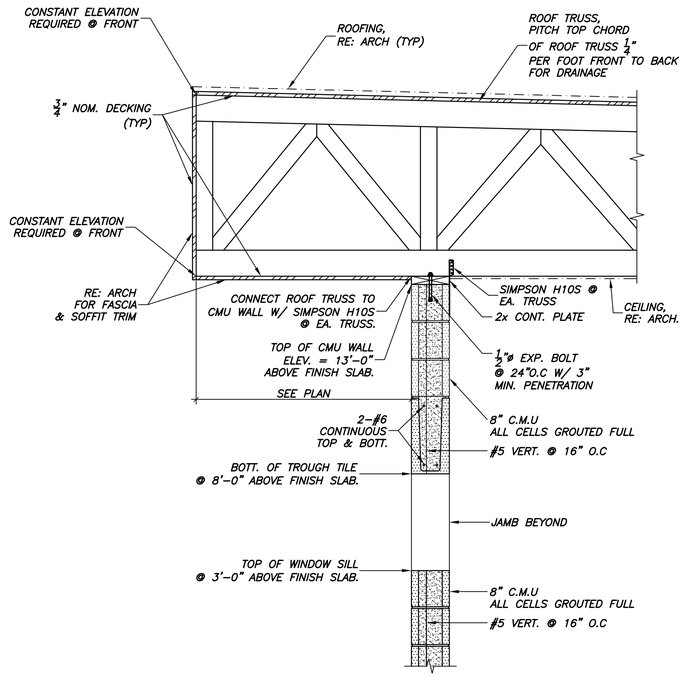
CONCESSION BUILDING FOUNDATION PLAN & DETAILS

IEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

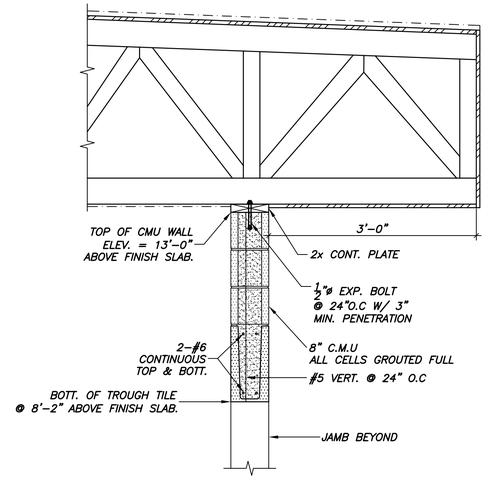
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SC-1



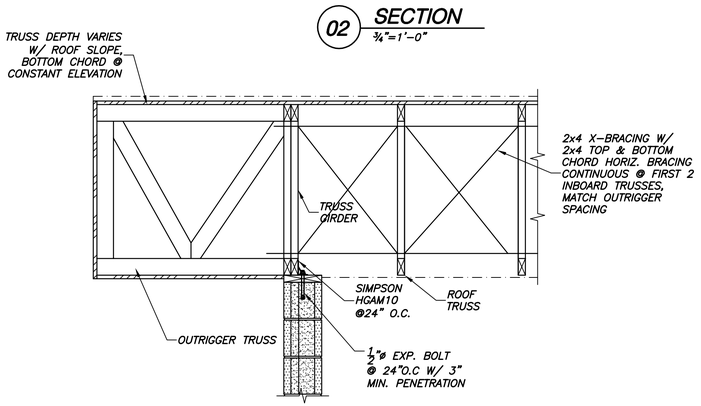
01 CONCESSION ROOF FRAMING PLAN
1/4"=1'-0"



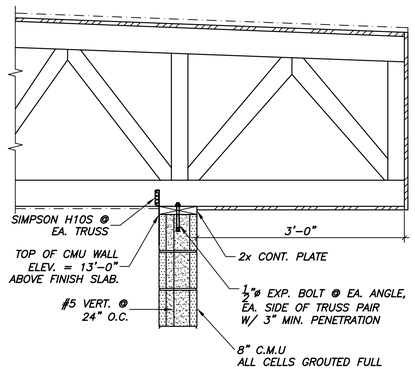
02 SECTION
3/4"=1'-0"



03 SECTION
3/4"=1'-0"



04 SECTION
3/4"=1'-0"



05 SECTION

STATE OF TEXAS
VICTOR LISSIAK, JR.
30535
LICENSED PROFESSIONAL ENGINEER
11/03/09

TEXAS FIRM REG. # F-2658

ISSUED FOR BID

NO.	REVISION	BY	DATE

Addison

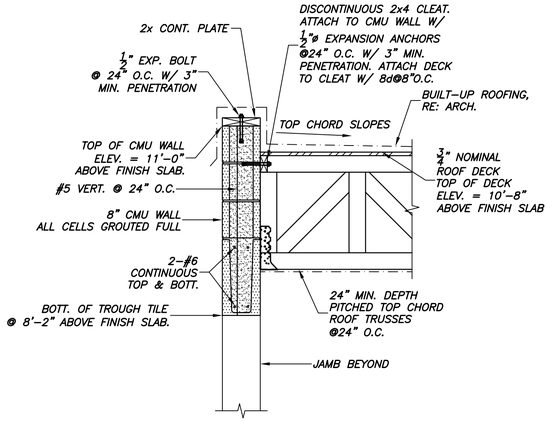
TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

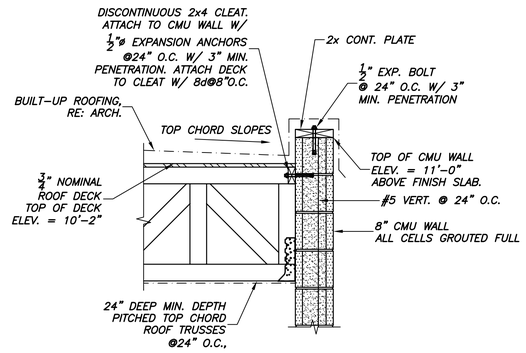
CONCESSION STAND ROOF FRAMING PLAN & DETAILS

VIEWTECH, INC.
Structural Engineers
4205 Beltway Dr. - Addison, Texas 75001
(972) 661-8187 Fax (972) 661-8172

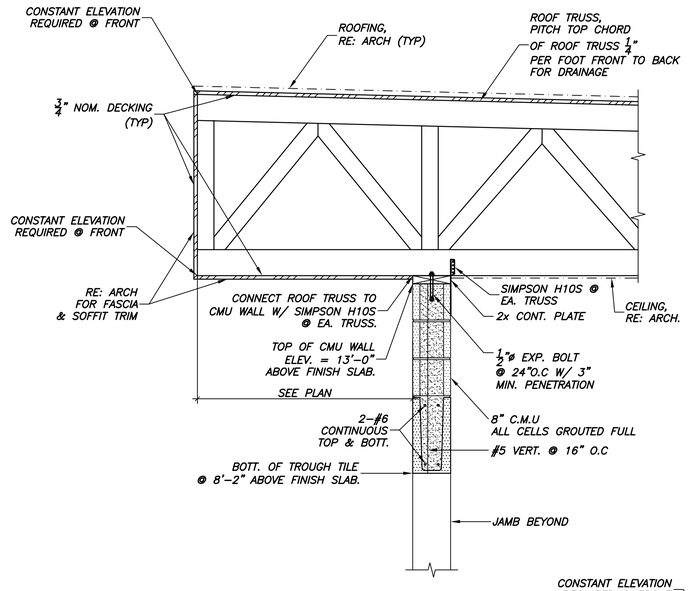
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
5029-01	VL	NERF	NOV. 3 2009	PW#2009-04	SC-2



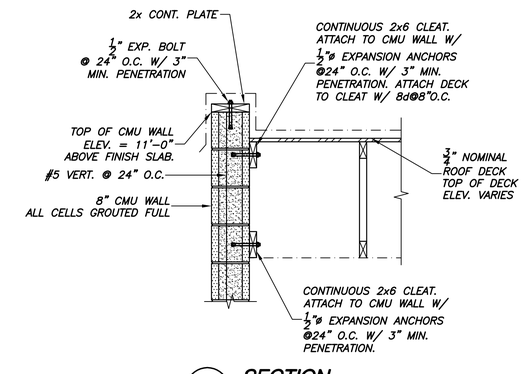
01 SECTION
¾"=1'-0"



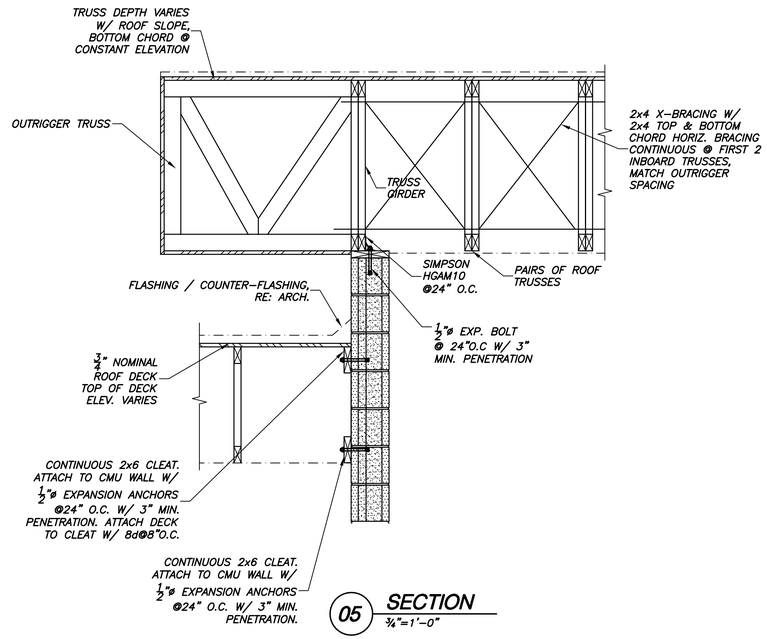
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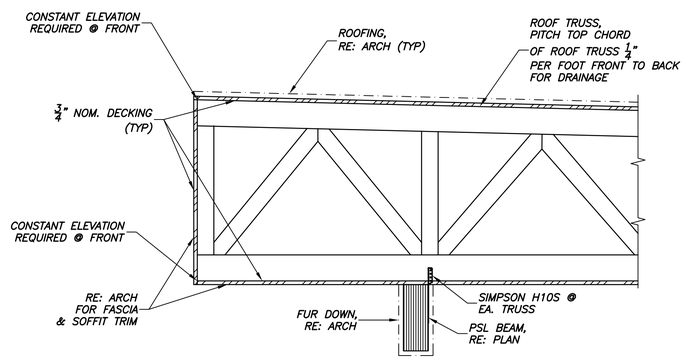
03 SECTION
¾"=1'-0"



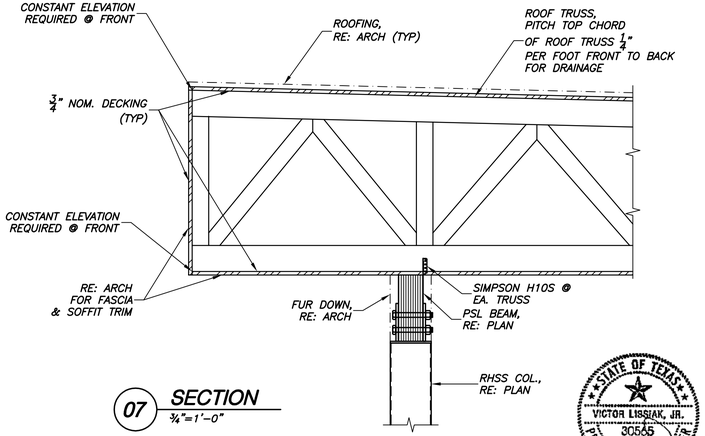
04 SECTION
¾"=1'-0"



05 SECTION
¾"=1'-0"



06 SECTION
¾"=1'-0"



07 SECTION
¾"=1'-0"

STATE OF TEXAS
VICTOR LISSIAK, JR.
36535
LICENSED PROFESSIONAL ENGINEER
11/03/09
TEXAS FIRM REG. # F-2658

ISSUED FOR BID

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

CONCESSION STAND ROOF FRAMING DETAILS

VIEWTECH, INC.
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CODES AND DESIGN SPECIFICATIONS:

1. BUILDING CODE: 2006 EDITION OF THE INTERNATIONAL BUILDING CODE.
2. SUPPLEMENTAL CODES AND REFERENCES TO BE USED FOR DESIGN, DETAILING AND CONSTRUCTION ARE:
   A. "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318–05).
   B. "SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301–05).
   C. "STEEL CONSTRUCTION MANUAL" (AISC, THIRTEENTH EDITION).
   D. "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" (2005).
3. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS LRFD BRIDGE DESIGN SPECIFICATIONS 2007 4TH EDITION.

DESIGN LIVE LOADING:

1. ALL PUBLIC ACCESS & GATHERING AREAS ..... 100 PSF
2. WIND 3 SEC. GUST EXPOSURE B ..... 90 MPH
3. SEISMIC SITE CLASSIFICATION C
4. SPECTRAL RESPONSE ACCELERATION (Ss, S1) 0.125, 0.052

CONCRETE MIX DESIGNS:

1. PROVIDE NORMAL WEIGHT CONCRETE HAVING THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS AND GENERAL CHARACTERISTICS:

USAGE	MIN. 28 DAY COMPRESSIVE STRENGTH
ALL	4,000 PSI

2. MINIMUM CONCRETE 28 DAY COMPRESSIVE STRENGTH SHALL BE BASED ON HISTORICAL PERFORMANCE DATA FROM THE SELECTED TRANSIT MIX CONCRETE SUPPLIER AND APPROVED BY THE ENGINEER.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONCRETE SUPPLIER TO SELECT THE PROPER TYPE OF PORTLAND CEMENT (INCLUDING QUANTITIES), AGGREGATES (INCLUDING QUANTITIES) AND WATER CEMENT RATIO TO PRODUCE THE REQUIRED MINIMUM 28 DAY COMPRESSIVE STRENGTHS.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONCRETE SUPPLIER TO RECOMMEND ANY ENHANCING AGENTS OR ADMIXTURES TO PROVIDE A WORKABLE AND DURABLE PRODUCT.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONCRETE SUPPLIER TO COORDINATE WITH THE GENERAL CONTRACTOR FOR ANY ADJUSTMENTS WHICH MAY BE NECESSARY TO PROVIDE FOR HIGH EARLY STRENGTHS TO FACILITATE AND ELIMINATE DELAYS IN CONSTRUCTION.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONCRETE SUPPLIER TO COORDINATE WITH THE GENERAL CONTRACTOR FOR ANY ADJUSTMENTS WHICH MAY BE NECESSARY TO PROVIDE FOR HOT WEATHER OR COLD WEATHER CONCRETING PRECAUTIONS.

CONCRETE REINFORCEMENT:

1. REINFORCING STEEL SHALL BE NEW DEFORMED BILLET STEEL CONFORMING TO A.S.T.M. A–615, GRADE 60.
2. ALL REINFORCING STEEL IN THE LAKE EDGE WALL, WIERS, PEDESTRIAN BRIDGES, & GROTTO SHALL BE EPOXY COATED.
3. REINFORCING BARS SHALL BE DETAILED IN ACCORDANCE WITH THE A.C.I. DETAILING MANUAL. PROVIDE BAR SUPPORTS AND SPACERS AS REQUIRED.
4. PROVIDE CORNER BARS AT ALL INTERSECTING REINFORCING MEMBERS IN WALLS AND BEAMS. CORNER BARS SHALL BE THE SAME SIZE AS THE LARGER INTERSECTING BAR AND SHALL PROVIDE A MINIMUM LAP OF 30 BAR DIAMETERS.
5. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:
   A. CONCRETE SLABS–ON–GRADE ..... 1½" CLEAR
   B. STRUCTURAL SLABS ..... 2" CLEAR
   C. PIERS ..... 3" CLEAR
   D. PILASTERS ..... 1½" CLEAR
5. DETAILING OF REINFORCING BARS IN BEAMS SHALL BE AS FOLLOWS:
   A. TOP AND BOTTOM BARS TO BE CONTINUOUS BETWEEN SUPPORTS.
   B. TOP BARS AT THE ENDS OF BEAMS TO HAVE STANDARD 90 DEGREE HOOKS.
   C. SPLICE TOP BARS AT THE MIDSPAN BETWEEN SUPPORTS. (U.N.O.)
   D. SPLICE BOTTOM BARS DIRECTLY OVER SUPPORTS. (U.N.O.)
   E. ALTERNATE SPLICES IN MIDDLE BARS BETWEEN SUPPORTS AND MIDSPANS WITH NO MORE THAN 1/2 OF THE BARS SPLICED AT ANY ONE LOCATION.
   F. ALL BAR SPLICES SHALL BE 30 BAR DIAMETERS MINIMUM.

STRAIGHT SHAFT PIER NOTES:

1. STRAIGHT SHAFT PIER DESIGN IS BASED ON AN ALLOWABLE VALUE OF 18,000 PSF END BEARING AND 2,000 PSF SIDE FRICTION AS RECOMMENDED IN THE SUBSURFACE REPORT PREPARED BY GEOTEL ENGINEERING, INC. THEIR REPORT NO. E07–312, DATED DECEMBER 3, 2007.
2. DRILLED PIERS SHALL BE FOUNDED A MINIMUM OF 2' INTO THE GRAY UNWEATHERED SHALE BEARING STRATA AS IDENTIFIED BY THE GEOTECH ENGINEER.
3. BOTTOM OF ALL PIER HOLES SHALL BE SMOOTH, DRY AND FREE OF ALL LOOSE MATERIAL BEFORE PLACING CONCRETE.
4. THE CONTRACTOR SHALL VERIFY THE DEPTH OF THE PIER PRIOR TO CUTTING PIER REINFORCING CAGES. PIER STEEL SHALL BE DELIVERED TO THE JOBSITE IN STANDARD LENGTHS AND CUT AS REQUIRED. 30 BAR DIAMETER LAPS WILL BE ALLOWED IN THE PIER STEEL IF NO MORE THAN 50 PERCENT OF THE BARS ARE LAPPED IN ANY 8 FOOT LENGTH OF THE PIER.
5. REINFORCING STEEL SHOP DRAWINGS SHALL INDICATE PLACING DRAWINGS FOR TEMPLATES TO SET DOWELS AND ANCHOR BOLTS. REINFORCING CAGES SHALL BE ADEQUATELY SUPPORTED TO PROVIDED CLEARANCES INDICATED ON THE DRAWINGS.
6. PIER HOLES SHALL BE CONCRETED WITHIN 8 HOURS OF DRILLING.
7. IF SUBSURFACE WATER CONDITIONS ARE SUCH THAT THE PIER HOLES CANNOT BE INSTALLED IN THE DRY CONDITION, THE CONTRACTOR SHALL INSTALL TEMPORARY CASING TO CONTROL WATER INTRUSION.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL SHALL CONFORM TO THE A.I.S.C. "STEEL CONSTRUCTION MANUAL", THIRTEENTH EDITION.
2. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISED CODE OF THE AMERICAN WELDING SOCIETY. WELDING ELECTRODES SHALL CONFORM TO AWS A5.1 OR A5.5 FOR SERIES #E70 ELECTRODES.
3. BOLTS AND BOLTED CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS" FOR STRUCTURAL JOINTS USING A.S.T.M. A–325 BOLTS OR A490 BOLTS, AS APPROVED BY THE RESEARCH COUNCIL ON RIVETED AND BOLTED JOINTS USING ASTM A–325 BOLTS. USE BEARING TYPE BOLTS WITH THREADS EXCLUDED FROM THE SHEAR PLANE.
4. IN GENERAL, IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT ALL SHOP CONNECTIONS ARE TO BE WELDED OR BOLTED AND ALL FIELD CONNECTIONS ARE TO BE BOLTED EXCEPT WHERE NOTED ON THE DRAWINGS OTHERWISE.
5. STRUCTURAL STEEL SHAPES, PLATES, ETC., SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS:
   A. W SHAPE ..... ASTM A992, Fy = 50ksi
   B. RECTANGULAR HSS ..... ASTM A500 Gr.B, Fy = 46ksi
   C. ROUND HSS ..... ASTM A500 Gr.B, Fy = 42ksi
   D. PIPE ..... ASTM A53 Gr.B, Fy = 35ksi
   E. M,S,C,MC,L ..... ASTM A36, Fy = 36ksi
   F. HP ..... ASTM A572 Gr. 50, Fy = 50ksi
   G. PLATES & BARS..... ASTM A572 Gr. 50, Fy = 50ksi
6. ALL BEAM CONNECTIONS SHALL BE STANDARD DOUBLE ANGLE TYPE UNLESS DETAILED OTHERWISE. PLATE SIZES, NUMBER AND SIZE OF BOLTS FOR FIELD CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR. DESIGN STANDARD CONNECTIONS USING 55% OF THE TOTAL LOAD CAPACITY SHOWN IN THE BEAM TABLES, PART 3, THIRTEENTH EDITION OF THE A.I.S.C. CODE FOR GIVEN BEAM SPAN IF THE SHEAR IS NOT GIVEN. IN NO CASE SHALL THE MINIMUM NUMBER OF BOLTS BE LESS THAN 2 ROWS FOR W12 & SMALLER;, 3 ROWS FOR W14, W16, & W18, 4 ROWS FOR W21 AND W24, 5 ROWS FOR W27 & W30 AND 6 ROWS FOR W33 AND W36.
7. PROVIDE A PRIME COAT OF RED OXIDE PAINT TO ALL STRUCTURAL STEEL PRIOR TO SHIPMENT.
8. ALL SCARRED, MARRED, OR OTHERWISE DAMAGED PAINT SHALL BE TOUCHED UP AFTER COMPLETION OF CONSTRUCTION.
9. PROVIDE WEB STIFFENERS TO ALL BEAMS AT SUPPORT LOCATIONS. WELD STIFFENERS TO EACH SIDE OF BEAM CENTERED DIRECTLY ABOVE SUPPORT. MIN. PLATE THICKNESS IS ¼".

STRUCTURAL MASONRY:

1. HOLLOW LOAD BEARING MASONRY UNITS SHALL CONFORM TO A.S.T.M. C–90, LIGHT WEIGHT, TYPE N1, WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 P.S.I. ON THE NET AREA OF THE BLOCK.
2. MORTAR SHALL CONFORM TO A.S.T.M. C–476, TYPE S.
3. COARSE GROUT SHALL CONFORM TO A.S.T.M. 476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8", AND A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I.
4. THE FIRST TWO CELLS AT CORNERS AND ENDS OF ALL CMU WALLS SHALL BE REINFORCED WITH 1#5 AND GROUTED. ONE NO. 4 EXTENDING 2' BEYOND CORNERS SHALL BE PLACED EACH SIDE OF WALL OPENINGS.
5. VERTICAL BARS SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 8'–0" WITH A MINIMUM CLEARANCE OF 3/4" FROM THE MASONRY, AND NOT LESS THAN ONE BAR DIAMETER BETWEEN BARS.
6. VERTICAL REINFORCING BARS MAY BE SPLICED IN 6'–0" TO 8'–0" (+) LENGTHS, PROVIDED THE SPLICES IN ADJACENT BARS ARE STAGGERED AND ARRANGED SO THAT NOT MORE THAN ONE–HALF OF THE TOTAL NUMBER OF BARS ARE SPLICED AT ANY ONE HEIGHT. MINIMUM LAP AT SPLICE SHALL BE 50 BAR DIAMETERS FOR #3 TO #6 BARS AND 62 BAR DIAMETERS FOR #7 TO #11 BARS.
7. REINFORCING BARS SHALL BE STRAIGHT EXCEPT FOR BENDS AROUND CORNERS AND WHERE BENDS OR HOOKS ARE DETAILED ON THE PLANS.
8. HORIZONTAL WALL REINFORCING IN WALLS WHICH ARE FULLY GROUTED SHALL BE DUR–O–WALL TRUSS TYPE HORIZONTAL REINFORCING AT 8" O.C.
9. WIRE REINFORCEMENT SHALL BE LAPPED AT LEAST 6" AT SPLICES AND SHALL CONTAIN AT LEAST ONE CROSS WIRE OF EACH PIECE OF REINFORCEMENT IN THE LAPPED DISTANCE.
10. PROVIDE 8" (U.N.O.) BOND BEAMS AT TOP OF ALL CMU WALLS WHICH ARE NOT FULLY GROUTED. BOND BEAMS SHALL BE REINFORCED WITH 2–#5 CONTINUOUS. ALL BOND BEAMS SHALL CONSIST OF U–SHAPED BLOCKS.
11. ALL CELLS WHICH ARE REQUIRED TO BE GROUTED AND ALL BOND BEAMS SHALL BE GROUTED WITH COARSE GROUT, NOT MASONRY MORTAR.

PLYWOOD OR ORIENTED STRAND BOARD:

1. PLYWOOD OR ORIENTED STRAND BOARD SHALL BE APA–RATED.
2. PLYWOOD OR ORIENTED STRAND BOARD SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST APA RECOMMENDATIONS.
3. PROVIDE A MINIMUM 1/8" SPACE BETWEEN PLYWOOD OR ORIENTED STRAND BOARD PANELS ALONG ALL PANEL EDGES UNLESS NOTED OTHERWISE BY PANEL MANUFACTURER.
4. LONG PANEL DIMENSION OF PLYWOOD OR ORIENTED STRAND BOARD SHALL BE PLACED PERPENDICULAR TO SUPPORTS AND SHALL BE CONTINUOUS OVER TWO OR MORE SPANS.
5. PROVIDE PANEL CLIP OR TONGUE AND GROOVE EDGES AS APPLICABLE IN ACCORDANCE WITH APA RECOMMENDATIONS.
6. UNLESS OTHERWISE NOTED ON STRUCTURAL DETAILS, NAIL SHEATHING W/8d COMMON NAILS AT 6" ON CENTER ALONG PANEL EDGES AND W/8d COMMON NAILS @ 12" ON CENTER ALONG INTERMEDIATE FRAMING MEMBERS.
7. ADHESIVES USED TO ATTACH FLOOR SHEATHING TO FRAMING MEMBERS SHALL CONFORM WITH CONFORMANCE SPECIFICATION AFG–01 OF THE APA FOR GLUED FLOOR SYSTEMS.
8. PLYWOOD DECK SHALL CONFORM TO THE MINIMUM THICKNESS INDICATED ON THE DRAWINGS AND SHALL BE MANUFACTURED IN ACCORDANCE WITH SPECIFICATIONS OF THE AMERICAN PLYWOOD ASSOCIATION.

WOOD CONNECTORS:

1. NAILS, SPIKES, STAPLES, BOLTS NUTS, WASHERS, ETC. SHALL BE GALVANIZED FOR EXTERIOR OR TREATED WOOD LOCATIONS; PLAIN FINISH FOR INTERIOR LOCATIONS.
2. FRAMING CONNECTORS SHALL BE SIMPSON "STRONG–TIE" OR APPROVED EQUAL AND SHALL BE BUILDING CODE APPROVED FOR THE TYPE OF INSTALLATION INDICATED.
3. BOLT HOLES THROUGH WOOD SHALL BE DRILLED 1/16" MAXIMUM LARGER THAN THE DIAMETER OF THE BOLTS TO BE INSTALLED.
4. BOLTS THOUGH WOOD SHALL BE FITTED WITH STANDARD WASHERS AT HEAD AND NUT ENDS.
5. BOLTS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1–1981

PREFABRICATED WOOD TRUSSES:

1. PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR STRESS–GRADE LUMBER AND ITS FASTENINGS AS RECOMMENDED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION.
2. TRUSS MEMBERS AND CONNECTIONS SHALL BE PROPORTIONED, WITH A MAXIMUM ALLOWABLE STRESS INCREASE FOR LOAD DURATION OF 15%, TO WITHSTAND THE FOLLOWING LOADS:

A. ROOF LOADING:	TOP CHORD:	DL = 15 PSF LL = 20 PSF
	BOTTOM CHORD:	DL = 5 PSF

3. TRUSS MANUFACTURER SHALL DESIGN ALL ROOF TRUSS FOR ALL GRAVITY, SHEAR AND WIND LOADS.
4. TRUSSES ARE DESIGNED FOR IN SERVICE CONDITIONS ONLY. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROPERLY BRACE TRUSSES DURING LIFTING AND ERECTION.
5. THE TRUSS MANUFACTURER SHALL SUBMIT THE FOLLOWING CERTIFICATIONS, SEALED BY THE ENGINEER RESPONSIBLE FOR DESIGN, FOR THE ARCHITECT'S APPROVAL PRIOR TO FABRICATION OF ANY MATERIALS.
6. CERTIFICATION OF THE RATED LOAD CAPACITY OF THE CONNECTORS USED TO SECURE THE MEMBERS BY AN INDEPENDENT AGENCY.
7. CERTIFICATION THAT THE MANUFACTURER IS LICENSED TO FABRICATE TRUSSES UTILIZING THE CONNECTOR SYSTEM PROPOSED.
8. CERTIFICATION THAT THE TRUSSES ARE DESIGNED TO MEET THE LOAD CRITERIA SPECIFIED HEREIN.
9. FABRICATION AND INSTALLATION DRAWINGS SHALL BE SUBMITTED TO THE CONTRACTOR FOR APPROVAL OF SIZE, SHAPE AND LAYOUT PRIOR TO FABRICATION OF MATERIALS.
10. TRUSS LENGTHS AND PROFILES SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS PRIOR TO FABRICATION, CONFIGURATION AND SIZE OF WEB CHORD MEMBERS SHALL BE DETERMINED BY TRUSS MANUFACTURER.
11. CONTRACTOR SHALL KEEP TRUSSES LATERALLY BRACED DURING ERECTION, UNTIL ALL DIAPHRAGMS ARE INSTALLED.
12. THE MOISTURE CONTENT OF LUMBER SHALL NOT EXCEED 19% NOR BE LESS THAN 7% AT THE TIME OF FABRICATION
13. BRIDGING SHALL BE PROVIDED FOR OPEN WEB WOOD JOIST AND WOOD JOIST FRAMING SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATIONS FOR STRESS GRADED LUMBER AND ITS FASTENINGS AS RECOMMENDED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION.
14. MAXIMUM LIVE LOAD DEFLECTION SHALL BE SPAN/240 FOR ROOF TRUSS AND SPAN/360 FOR FLOOR, BALCONY AND BREEZEWAY/CORRIDOR TRUSSES.
15. TRUSS MANUFACTURERS SHALL PROVIDE ADEQUATE LATERAL BRACING AS NEEDED FOR GABLE END TRUSSES.
16. TRUSS MANUFACTURER SHALL DESIGN ROOF TRUSSES TO SUPPORT ROOF TOP MECHANICAL UNITS. COORDINATE LOCATION AND DESIGN WEIGHTS WITH MECHANICAL.

CONCESSION BUILDING PAD STABILIZATION:

1. CONCESSION BUILDING HAS BEEN DESIGNED FOR A MAXIMUM POTENTIAL VERTICAL RISE OF 1".
2. STABILIZE BUILDING PAD FOOTPRINT AND 5' BEYOND ALL SIDES USING CHEMICAL INJECTION IN SUFFICIENCY NECESSARY TO ACHIEVE A PERMANENT REDUCTION IN POTENTIAL VERTICAL RISE TO A MAXIMUM OF 1".
3. REQUIRED CHEMICAL IS "ECSS 3000" AS FURNISHED AND INSTALLED BY ENVIRONMENTAL SOIL STABILIZATION SYSTEMS, LLC. CONTACT MR. JOHNNY SHERWOOD AT 817–426–8000

STATE OF TEXAS
VICTOR LISSIAK, JR.
30555
LICENSED
PROFESSIONAL ENGINEER
11/03/09

TEXAS FIRM REG. # F-2658

ISSUED FOR BID

NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

CONCESSION STAND GENERAL NOTES

VIEWTECH, INC.
Structural Engineers
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PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
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DUCTLESS SPLIT SYSTEM HEAT PUMP

TAG	MODEL NO. OUTDOOR/INDOOR	AIRFLOW (CFM)	TOTAL COOLING (MBH)	TOTAL HEATING (MBH)	COOLING EAT (DB/WB)	ACCESSORIES
AH/HP-1	PUZ-A24/PKA-A24	705	24.0	26.0	80/67	1,2,3,4,5,6

NOTES
A. COOLING CAPACITIES BASED ON 95°F AMBIENT COOLING, 80°Fdb/67°Fwb ENTERING AIR TEMPERATURE AND 47°F AMBIENT HEATING.
B. ROUTE 3/4" AH CONDENSATE TO NEAREST HUB DRAIN. SEE PLUMBING DRAWINGS.
C. 13 SEER CONDENSING UNITS WITH R410a REFRIGERANT.

ACCESSORIES:
1. MICROPROCESSOR CONTROL WITH NON-REMOVABLE MOUNTING BRACKET.
2. DISCONNECT SWITCH FOR INDOOR UNIT SHALL BE BY DIVISION 16.
3. DISCONNECT SWITCH FOR OUTDOOR UNIT SHALL BE BY DIVISION 16.
4. INTEGRAL CONDENSATE PUMP W/CHECK VALVE ON INDOOR UNIT IF REQUIRED.
5. WASHABLE FILTER.
6. PRE-CHARGED REFRIGERANT LINE SET.

SELECTIONS ARE BASED ON PRODUCTS BY MITSUBISHI.

FANS

TAG	MODEL	DUTY	CFM	SONES	E.S.P.	MOTOR SIZE	RPM	DRIVE	WEIGHT (Lb)	ACCESSORIES
EF-1	SP-A110	TOILET EXHAUST	75	1.3	0.25"	FRAC HP	950	DIRECT	15	1,2,3,4
EF-2,3	SP-A250	TOILET EXHAUST	300	3.2	0.25"	FRAC HP	1,000	DIRECT	21	1,2,3,4

ACCESSORIES:
1. GRAVITY BACKDRAFT DAMPER.
2. INTERLOCK WITH OCCUPANCY SENSOR (COORDINATE WITH ELECTRICAL).
3. PLUG TYPE DISCONNECT SWITCH.
4. UNIT MOUNTED SPEED CONTROL.

SELECTIONS ARE BASED ON PRODUCTS BY GREENHECK.

ELECTRIC HEATERS

TAG	TYPE	MAX. KW	STEPS	MOUNTING HEIGHT	SERIES	ACCESSORIES
EH-1	CEILING MOUNTED HEATER	3.0	1	CEILING	CDF 500	1,2,3,4,5,6
EH-2,3	CEILING MOUNTED HEATER	5.0	1	CEILING	CDF 500	1,2,3,4,5,6

REMARKS/ACCESSORIES:
1. DISCONNECT SWITCH.
2. THERMOSTAT, CONTROLS, TRANSFORMER, ETC. AS REQUIRED.
3. MANUAL-RESET LIMIT CONTROLS.
4. CEILING MOUNTED HEATER.
5. FAN TIMER DELAY RELAY.
6. SET TO 40° (ADJ.)

SELECTIONS ARE BASED ON PRODUCTS BY QMARK.

LEGEND

MARK	DESCRIPTION	MARK	DESCRIPTION
EF 1	EQUIPMENT NUMBER DESIGNATION (EF-1)	OA	OUTSIDE AIR
		RA	RETURN AIR
EF	EXHAUST FAN	T	THERMOSTAT
HP	HEAT PUMP	CD	CONDENSATE DRAIN
		AFF	ABOVE FINISHED FLOOR

LOUVERS

TAG	MODEL	LOCATION	CFM	E.S.P.	MAX VELOCITY	UNIT SIZE, INCHES (WxH)	FREE AREA (MIN)	ACCESSORIES
WL-1	EAD-601	FAMILY RESTROOM	75	0.10	N/A	16x16	0.2 SF	1,2,3,4,5,8
WL-2	EAD-601	MENS RESTROOM	300	0.10	N/A	24x16	0.6 SF	1,2,3,4,6,8
WL-3	EAD-601	MENS RESTROOM	300	0.10	N/A	24x16	0.6 SF	1,2,3,4,7,8

ACCESSORIES:
1. FINISH TO BE BACKED ENAMEL OR PRIME COAT FOR FIELD PAINTING.
2. BIRD SCREEN.
3. GRAVITY BACKDRAFT DAMPER.
4. INSECT SCREEN.
5. INTERLOCK WITH EF-1.
6. INTERLOCK WITH EF-2.
7. INTERLOCK WITH EF-3.
8. MOTORIZED DAMPER.

SELECTIONS ARE BASED ON PRODUCTS BY: GREENHECK.

HVAC GENERAL NOTES

HVAC GENERAL NOTES

1. ALL MECHANICAL EQUIPMENT AND INSTALLATIONS SHALL CONFORM WITH THE REQUIREMENTS OF THE 2006 INTERNATIONAL MECHANICAL CODE, THE 2006 INTERNATIONAL BUILDING CODE, THE 2006 INTERNATIONAL ENERGY CODE, STATE AMENDMENTS, NFPA 90A, 101, UNDERWRITERS LABORATORIES (OR ETL) AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
2. PRIOR TO PURCHASING ANY MATERIALS OR STARTING ANY WORK, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DUCTWORK SIZES AND LOCATIONS, EQUIPMENT, ETC. SHOWN ON THE DRAWINGS OR AFFECTING THIS WORK AND SHALL REPORT ANY DEVIATIONS TO THE ARCHITECT.
3. SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ARCHITECT PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY MECHANICAL EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE: ALL EQUIPMENT SCHEDULED OR SPECIFIED ON THE DRAWINGS; DUCTWORK DRAWN TO 1/4" SCALE OR THE SCALE SHOWN ON THE DRAWINGS; REFRIGERANT PIPING AND CONTROL WIRING SCHEMATICS CERTIFIED BY THE AIR CONDITIONING EQUIPMENT MANUFACTURER. FAILURE TO SUBMIT REFRIGERANT PIPING DRAWINGS SHALL BE CAUSE FOR REJECTION OF THE ENTIRE SUBMITTAL. LONG LINE REFRIGERANT PIPING APPLICATIONS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT SPLIT SYSTEM LONG-LINE APPLICATION GUIDELINE.
4. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
5. ALL MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY OWNER.
6. ALL HVAC COMPRESSORS SHALL HAVE EXTENDED 4 YEAR MANUFACTURER'S WARRANTY FOR A 5-YEAR TOTAL WARRANTY.
7. FOR EXACT LOCATION OF OUTDOOR AIR CONDITIONING UNITS, SEE ARCHITECTURAL DRAWINGS.
8. INSTALL GRADE MOUNTED OUTDOOR AIR CONDITIONING EQUIPMENT LEVEL ON 4" THICK REINFORCED CONCRETE PADS, EXTENDING 6" BEYOND UNIT PERIMETER.
9. MOUNT TOP OF THERMOSTATS 4'-0" AFF UNLESS NOTED OTHERWISE. PROVIDE CLEAR LOCKING GUARD ASSEMBLIES FOR ALL PUBLIC AREA THERMOSTATS. COORDINATE THERMOSTAT LOCATIONS WITH OTHER TRADES. ALL THERMOSTATS SHALL BE ADA COMPLIANT.
10. ALL WORK SHALL BE COORDINATED AND PERFORMED WITH PRIOR APPROVAL FROM THE OWNER TO SUIT HIS OPERATING CONDITIONS.
11. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT, DUCTWORK, PIPING, ETC. TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURAL AND STRUCTURAL CONDITIONS. CUTTING OR OTHERWISE ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT.
12. ALL MECHANICAL EQUIPMENT SHALL BE LABELED WITH A SEMI-RIGID PLASTIC LAMINATE NAMEPLATE WITH 2" HIGH WHITE LETTERS ON A BLACK BACKGROUND SECURELY AFFIXED TO THE EQUIPMENT. THE NAMEPLATE SHALL SHOW THE EQUIPMENT TAG USED ON THESE DRAWINGS.
13. REFER TO ARCHITECTURAL PLANS FOR FLOOR AND CEILING ASSEMBLY UL RATINGS AND DETAILS.

MECHANICAL/ELECTRICAL COORDINATION:

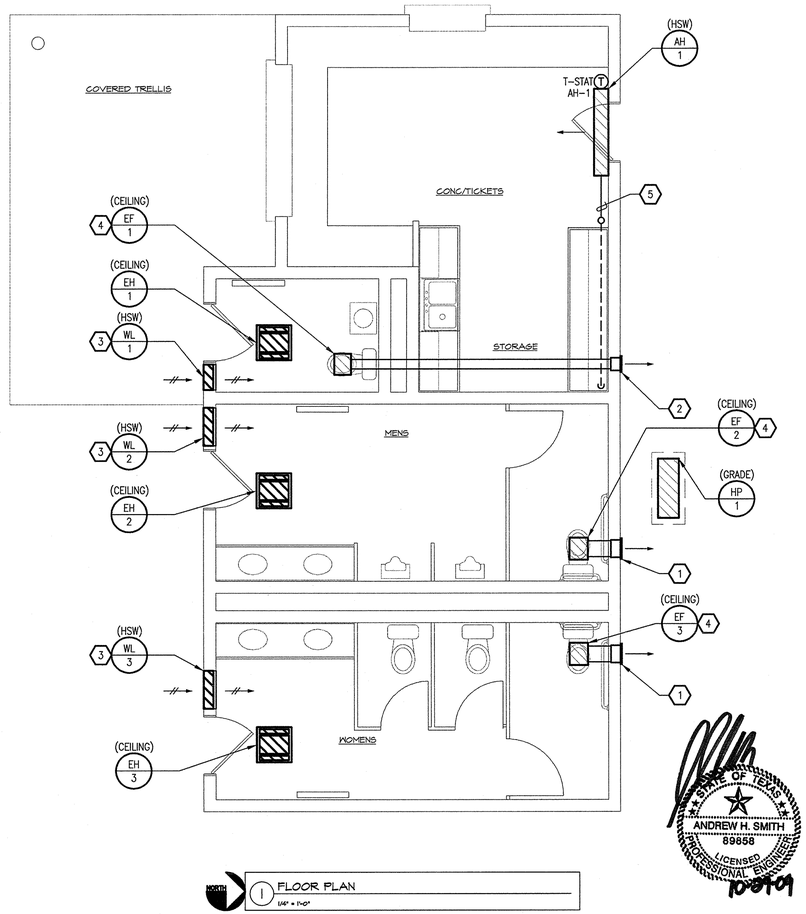
1. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT OR SUBMITTING SHOP DRAWINGS, AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN. SHOP DRAWING SUBMITTALS SHALL CLEARLY STATE THAT THE ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT HAS BEEN COORDINATED WITH THE ELECTRICAL CONTRACT DOCUMENTS AND THE ELECTRICAL CONTRACTOR.
2. ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUSED OR NON-FUSED) WITH EQUIPMENT CHARACTERISTICS, MANUFACTURER'S RECOMMENDATIONS AND THE ELECTRICAL DRAWINGS.
3. ALL REQUIRED CONTROL WIRING (INCLUDING POWER WIRING REQUIRED FOR CONTROL PANELS, DEVICES, ETC.) NOT SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE INCLUDED AS PART OF THE MECHANICAL WORK. WIRING IN HVAC PLENUM SPACES SHALL BE INSTALLED ACCORDING TO CODE REQUIREMENTS.
4. UNLESS NOTED OTHERWISE, TRANSFORMERS, CONTROLS AND CONTROL WIRING REQUIRED FOR ALL MECHANICAL SYSTEMS SHALL BE FURNISHED WITH THE EQUIPMENT IT SERVES AND INSTALLED BY THE MECHANICAL CONTRACTOR.

AIR DISTRIBUTION:

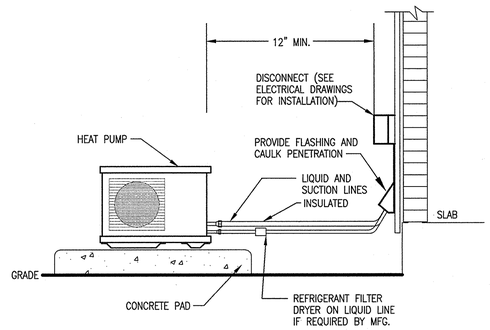
1. EXHAUST DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED TO SMACNA STANDARDS AND SHALL NOT BE INSULATED UNLESS NOTED OTHERWISE.
2. ALL DUCTWORK SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. DUCT SUPPORTS AND ATTACHMENT TO STRUCTURE SHALL BE PER SMACNA STANDARDS.
3. DUCTWORK DIMENSIONS SHOWN ON THE DRAWINGS ARE INSIDE CLEAR DIMENSIONS.
4. EXTERNAL STATIC PRESSURE (ESP) DOES NOT INCLUDE COIL, CASING OR FILTER PRESSURE DROP.

PIPING:

1. REFRIGERANT PIPING SHALL BE TYPE L OR REFRIGERATION SERVICE COPPER TUBING WITH BRAZED JOINTS.
2. CONDENSATE FROM ALL AIR CONDITIONING EQUIPMENT SHALL BE TRAPPED AND ROUTED TO THE NEAREST FLOOR DRAIN OR TO EXTERIOR DRY WELLS. CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC (EXCEPT INSULATED COPPER IN HVAC PLENUMS). CONDENSATE SHALL BE PUMPED AS REQUIRED.
3. ALL PIPING ABOVE GRADE SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. PIPING HUNG FROM JOISTS SHALL BE HUNG FROM THE TOP CHORDS OF THE JOISTS.



NORTH ① FLOOR PLAN
1/4" = 1'-0"



HEAT PUMP GRADE MOUNTING DETAIL
SCHEMATIC - NO SCALE

KEYNOTES
1. 10" EXHAUST ROUTED TO EXTERIOR WALL CAP.
2. 6" EXHAUST ROUTED TO EXTERIOR WALL CAP.
3. INTERLOCK LOUVER WITH EXHAUST FAN IN RESTROOM.
4. EXHAUST FAN TO BE CONTROLLED BY OCCUPANCY SENSOR.
5. 3/4" CD ROUTED OVER, DOWN, AND UNDERNEATH CABINET TO HUB DRAIN. REFERENCE PLUMBING DRAWINGS.

NO.	REVISION	BY	DATE

STATE OF TEXAS
ANDREW H. SMITH
89858
LICENSED PROFESSIONAL ENGINEER
10-8-09

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Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

HVAC PLAN, NOTES, LEGEND, SCHEDULES, & DETAILS

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
ADDISON BATH HOUSE	HVAC	HP	NOV 3, 2009 BID	#0930424	M100

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

SPECIFICATIONS

I. SCOPE

A. INSTALL ALL ELECTRICAL WORK COVERED BY THESE SPECIFICATIONS AND APPROVED DRAWINGS. PROVIDE ALL MATERIAL, LABOR, TRANSPORTATION, TOOLS, SUPERVISION, ETC., NECESSARY TO COMPLETE THE TOTAL ELECTRICAL JOB. ALL ITEMS NOT SPECIFICALLY MENTIONED HEREIN WHICH ARE OBVIOUSLY NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION SHALL BE PROVIDED.

B. ELECTRICAL COMPONENTS INCLUDING BUT NOT LIMITED TO CONDUCTOR SIZE, OVERCURRENT PROTECTIVE DEVICE AND DISCONNECT SWITCHES ARE BASED ON POWER REQUIREMENTS FOR EQUIPMENT SPECIFIED AS SHOWN ON THE CONTRACT DOCUMENTS. PRIOR TO INSTALLING WORK, CONTRACTOR SHALL COORDINATE ELECTRICAL REQUIREMENTS WITH EQUIPMENT OF ALL TRADES REQUIRING ELECTRICAL CONNECTIONS.

C. FINAL CONNECTIONS TO EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH ACTUAL EQUIPMENT SUPPLIED.

D. VERIFY EXACT LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICES (CONDUIT AND/OR WIRE), PULLBOXES, TRANSFORMER PADS, SAWCUTTING AND PATCHING, CONCRETE/PAVING, ETC. AS REQUIRED. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS.

E. EXAMINATION OF BIDDING DOCUMENTS

1. EACH BIDDER SHALL EXAMINE THE BIDDING DOCUMENTS CAREFULLY AND MAKE WRITTEN REQUEST TO THE ARCHITECT FOR INTERPRETATION OR CORRECTION OF ANY DISCREPANCIES, AMBIGUITY, INCONSISTENCY OR ERROR THEREIN. ANY INTERPRETATION OR CORRECTION WILL BE ISSUED BY THE ARCHITECT AS AN ADDENDUM. ONLY WRITTEN INTERPRETATION OR CORRECTIONS BY ADDENDUM SHALL BE BINDING. CONTRACTOR SHALL INCLUDE IN HIS BID, LABOR, MATERIALS AND METHODS OF CONSTRUCTION FOR COMPLETE INSTALLATION. AFTER AWARD OF CONTRACT, NO ALLOWANCE OR EXTRA COMPENSATION WILL BE MADE IN BEHALF OF THE CONTRACTOR DUE TO HIS FAILURE TO MAKE THE WRITTEN REQUESTS AS DESCRIBED ABOVE.

2. FAILURE TO REQUEST CLARIFICATION OF ANY INADEQUACY, OMISSION OR CONFLICT WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY. THE SIGNING OF THE CONTRACT WILL BE CONSIDERED IMPLICITLY DENOTING THAT THE CONTRACTOR HAS A THOROUGH COMPREHENSION OF THE FULL INTENT AND SCOPE OF THE WORKING DRAWINGS AND SPECIFICATIONS.

II. CODES AND FEES

A. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2008 NATIONAL ELECTRICAL CODE, N.F.P.A. 70, 2006 IECC, 2006 IBC AND ALL LOCAL AND STATE CODES AND REGULATIONS. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY THE BUILDING AND SAFETY CODES AND ORDINANCES, AND THE RULES AND REGULATIONS OF ANY LEGAL BODY HAVING JURISDICTION.

III. WORKMANSHIP

A. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF ELECTRICAL EQUIPMENT. COORDINATE DEVICE LOCATIONS WITH DOOR SWINGS, CABINETS, COUNTERS, ETC., AS INDICATED ON THE ARCHITECTURAL DRAWINGS. DO NOT SCALE ELECTRICAL PLANS. OBTAIN DIMENSIONS FOR LAYOUT OF EQUIPMENT FROM ARCHITECTURAL PLANS UNLESS INDICATED ON ELECTRICAL PLANS.

B. COORDINATE WITH ALL OTHER TRADES AND SUBCONTRACTORS PERFORMING WORK ON THIS PROJECT. MINOR OFFSETS IN LOCATIONS OF FIXTURES, DEVICES, ETC. SHALL BE MADE TO AVOID CONFLICTS WITH OTHER TRADES. SUCH MODIFICATIONS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO THE WORK BEING PERFORMED.

C. MOUNTING HEIGHTS, UNLESS OTHERWISE NOTED, ARE TO THE CENTER LINE OF THE EQUIPMENT AND/OR DEVICE EXCEPT THE MOUNTING HEIGHT OF SUSPENDED LIGHT FIXTURES WHICH IS TO THE BOTTOM OF FIXTURE.

D. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING PROVIDED UNDER THIS SECTION OR FACTORY WIRING IN EQUIPMENT PROVIDED UNDER THIS SECTION.

IV. SUBSTITUTIONS

A. ALL COST INCURRED BY THE ACCEPTANCE OF SUBSTITUTIONS SHALL BE BORNE BY THE CONTRACTOR. PROOF FOR THE EQUALITY OF SUBSTITUTIONS SHALL BE BY THE CONTRACTOR.

V. U.L. LISTING

A. ALL ELECTRICAL ITEMS COVERED BY THIS SPECIFICATION SHALL BE U.L. LABELED AND LISTED FOR THEIR SPECIFIC USE.

VI. ELECTRICAL SERVICE

A. THE ELECTRICAL CONTRACTOR SHALL PAY ALL COSTS REQUIRED BY THE LOCAL UTILITY COMPANY PROVIDING SERVICES INDICATED. ELECTRICAL CONTRACTOR SHALL COORDINATE METERING, TRANSFORMER PAD, CONNECTION POINTS AND GROUNDING WITH UTILITY COMPANY.

B. ALL SERVICE ENTRACE EQUIPMENT INCLUDING BUT NOT LIMITED TO ANY MAIN DISCONNECT SWITCH, PANEL, OR SWITCHBOARD SHALL BE LISTED AND LABELED AS "SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT".

VII. WARRANTY

A. WORK SHALL BE WARRANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER.

VIII. SPECIFICATIONS

A. GROUNDING

1. THE BUILDING ELECTRICAL SYSTEMS SHALL BE SOLIDLY GROUNDED. ALL NON-CURRENT CARRYING METAL PARTS OF THE ELECTRICAL SYSTEM, I.E., RACEWAYS, EQUIPMENT ENCLOSURES, FRAMES, JUNCTION AND OUTLET BOXES AND OTHER CONDUCTIVE ITEMS IN CLOSE PROXIMITY WITH ELECTRICAL CIRCUITS, SHALL BE GROUNDED TO PROVIDE A LOW IMPEDANCE PATH FOR POTENTIAL GROUND FAULTS.

2. EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED IN ALL RACEWAYS AND CABLES.

3. THE NEUTRAL AND GROUND BUS SHALL BE BONDED TOGETHER AT ALL SERVICE EQUIPMENT.

B. RACEWAYS AND CONDUITS

1. CONDUITS INSTALLED IN DIRECT CONTACT WITH GRADE OR WITHIN CONCRETE SLABS SHALL BE SCHEDULE 40 PVC. CONDUITS CONCEALED WITHIN WALLS AND ABOVE CEILINGS, AND EXPOSED IN INDOOR AREAS SHALL BE ELECTRICAL METALLIC TUBING (E.M.T.). COUPLINGS SHALL BE STEEL SET SCREW TYPE FOR INDOOR LOCATIONS, AND COMPRESSION TYPE FOR OUTDOOR AND WET LOCATIONS. CONDUIT SHALL BE INTERMEDIATE OR GALVANIZED RIGID STEEL IN AREAS WHERE SUBJECT TO ABUSE.

2. CONDUITS SHALL BE RUN PARALLEL OR AT RIGHT ANGLES TO WALLS, CEILINGS, AND STRUCTURAL MEMBERS.

3. LIQUID TIGHT FLEXIBLE METAL OR NON-METALLIC CONDUIT SHALL BE USED FOR OUTDOOR EXPOSED CONNECTIONS TO GROUND- OR ROOF-MOUNTED EQUIPMENT.

4. ALL RACEWAYS SHALL BE INSTALLED CONCEALED EXCEPT IN UNFINISHED SPACES OR WHERE INDICATED ON THE DRAWINGS.

5. FASTENERS AND SUPPORTS SHALL BE AS MANUFACTURED BY GEDNEY, EFCOR OR EQUAL. SUPPORTING DEVICES SHALL BE THOSE AS MANUFACTURED FOR A SPECIFIC PURPOSE. NAILS, WIRE OR PIPE STRAP SHALL NOT BE USED.

6. PROVIDE FLEXIBLE EXPANSION CONDUIT FITTINGS ON ALL CONDUIT CROSSING EXPANSION JOINTS. SEE ARCHITECTURAL PLANS FOR EXPANSION JOINT LOCATIONS.

C. CONDUCTORS

1. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER, 90°C, THHN/THWN INSULATION.

2. UNLESS NOTED OTHERWISE, SERVICE AND FEEDER CONDUCTORS SHALL BE COPPER, THHN/THWN-2 INSULATION. WHERE APPROVED, ALUMINIMUM CONDUCTORS SHALL BE COMPACT, AA-8000 SERIES, XHHW-2. 90°C.

3. WIRE NO. 8 AWG AND LARGER SHALL BE STRANDED, NO. 10 AND SMALLER SHALL BE SOLID.

4. ALL BRANCH CIRCUIT AND FEEDER CONDUCTORS, NO. 8 AWG AND SMALLER, SHALL BE COLOR CODED AS FOLLOWS (WHERE APPROVED BY THE AUTHORITY HAVING JURISDICTION):

120/208 VOLT SYSTEM

PHASE A – BLACK
PHASE B – RED
PHASE C – BLUE
NEUTRAL – WHITE
GROUND – GREEN

5. MC CABLE SHALL BE LIMITED TO BRANCH CIRCUITS CONCEALED IN WALLS AND ABOVE CEILINGS, AND MAY NOT BE RUN DIRECTLY INTO SURFACE MOUNTED EQUIPMENT. ALL CIRCUIT HOMERUNS FROM THE PANELBOARD TO THE FIRST BRANCH CIRCUIT DEVICE SHALL BE ROUTED IN CONDUIT. MC CABLE SHALL NOT BE ALLOWED FOR WIRING TO MECHANICAL EQUIPMENT.

6. SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30 DEGREE C AMBIENT.

D. OUTLET/JUNCTION BOXES

1. ALL OUTLET/JUNCTION BOXES SHALL BE GALVANIZED STEEL. THERMOPLASTIC BOXES SHALL BE ACCEPTABLE FOR USE WHERE NM CABLE IS APPROVED.

2. WALL AND CEILING OUTLET BOXES SHALL BE 4" SQUARE, WITH A DEPTH OF 2 1/2". CEILING BOXES SHALL BE 4" OCTAGONAL WHERE REQUIRED DUE TO NUMBER OF WIRES.

3. WHERE BOXES ARE INSTALLED BACK-TO-BACK IN WALLS AND LOCATED LESS THAN 24" APART, MOLDABLE PUTTY PADS SHALL BE INSTALLED TO MAINTAIN THE REQUIRED FIRE RATING.

E. PANELBOARDS

1. PANELBOARDS SHALL HAVE BOLT-IN CIRCUIT BREAKERS AND ALUMINUM BUSSING.

2. OVERCURRENT PROTECTIVE DEVICES SHALL BE AUTOMATIC TRIP THERMAL MAGNETIC TYPE WITH QUICK-MAKE QUICK-BREAK FOR BOTH MANUAL AND AUTOMATIC OPERATION. ALL MULTIPOLE BREAKERS SHALL BE COMMON TRIP; HANDLE TIES WILL NOT BE ACCEPTED.

3. SWITCHBOARDS, DISTRIBUTION BOARDS, PANELBOARDS, DISCONNECT SWITCHES AND MOTOR CONTROL CENTERS SHALL BE MANUFACTURED BY GENERAL ELECTRIC, SIEMENS, SQUARE 'D' OR EATON/CUTLER HAMMER. BOLT FREE STANDING EQUIPMENT TO 4" HIGH EQUIPMENT HOUSEKEEPING PADS. SWITCHBOARD SECTIONS SHALL BE FULLY BUSSED.

4. TYPEWRITTEN DIRECTORIES AND PANELBOARD DESIGNATION PLATES SHALL BE PROVIDED BY THE CONTRACTOR FOR ALL PANELBOARDS. PANELBOARD DESIGNATIONS SHALL BE PHENOLIC-ENGRAVED.

5. WIRE TERMINATION PROVISIONS FOR PANELBOARDS, CIRCUIT BREAKERS, SAFETY SWITCHES AND ALL OTHER ELECTRICAL APPARATUS SHALL BE LISTED AS SUITABLE FOR 75 DEGREE C. MINIMUM.

F. LIGHTING FIXTURES

1. UNLESS INDICATED ON DRAWINGS, BALLASTS PROVIDED WITH FIXTURES SHALL BE ETL-CBM APPROVED, HIGH POWER FACTOR, WITH U.L. LABEL. ALL BALLASTS FOR RAPID START LAMPS SHALL BE PREMIUM CLASS P.

2. FIXTURES RECESSED IN T-BAR CEILING SHALL BE SUPPORTED INDEPENDENTLY OF CEILING SYSTEM, WITH TWO (2) NUMBER TWELVE (12) HANGER WIRES UP TO STRUCTURE. SECURE HANGER WIRES TO CORNERS OF FIXTURE. CLIP FIXTURE TO GRID ON TWO SIDES WITH FACTORY FURNISHED CLIPS. FINAL CONNECTION TO FIXTURE SHALL BE MADE WITH A FLEXIBLE U.L. APPROVED ASSEMBLY.

3. ALL LIGHTING FIXTURES TO BE VANDAL PROOF.

G. WIRING DEVICES

COMMERICAL GRADE

1. DUPLEX RECEPTACLES SHALL BE RATED 20 AMP, HUBBELL CR5362 OR APPROVED EQUAL.

2. TOGGLE SWITCHES SHALL BE 20 AMP, HUBBELL CS1221 OR APPROVED EQUAL.

3. DIMMER SWITCHES SHALL BE SLIDER TYPE, LUTRON VARED SERIES.

4. DEVICE PLATES SHALL BE NYLON (UNLESS NOTED OTHERWISE).

5. COLOR OF DEVICES AND DEVICE PLATES SHALL BE AS DETERMINED BY ARCHITECT.

H. DISCONNECT SWITCHES

1. SAFETY-TYPE DISCONNECT SWITCHES SHALL BE HEAVY DUTY WITH QUICK-MAKE, QUICK-BREAK MECHANISM WITH INTERLOCKING COVER WHICH NORMALLY CANNOT BE OPENED WHEN THE SWITCH IS IN THE "ON" POSITION. SWITCH SHALL HAVE PROVISIONS FOR PAD-LOCKING IN THE OPEN OR CLOSED POSITION.

2. FUSIBLE DISCONNECT SWITCHES SHALL HAVE REJECTION-TYPE FUSEHOLDERS. FUSES SHALL BE NON-RENEWABLE, DUAL ELEMENT TIME-DELAY "RK1" OR RK5", OR AS SPECIFIED OTHERWISE.

3. ACCEPTABLE MANUFACTURERS: EATON/CUTLER HAMMER, G.E., SIEMENS OR SQUARE D.

I. MISCELLANEOUS EQUIPMENT

1. TIME CLOCK SHALL BE ELECTRONIC TYPE WITH ASTRONOMICAL FUNCTIONS (TORK DZS 200BP OR APPROVED EQUAL).

2. PHOTOCELL SHALL HAVE RAINTIGHT PHOTOELECTRIC SELF-CONTAINED CONTROL FOR SWITCHING. PHOTOCELL SHALL HAVE DIE-CAST HOUSING WITH ADJUSTABLE SENSOR. (ACCEPTABLE MANUFACTURERS: TORK 2100 SERIES OR APPROVED EQUAL.)

J. PENETRATIONS

1. ALL PENETRATIONS THROUGH RATED WALLS, FLOORS AND /OR CEILINGS SHALL BE SEALED WITH THE APPROPRIATELY RATED FIRE-SEALING MATERIAL BY 3M COMPANY, THOMAS & BETTS, METACAULK, OR APPROVED EQUAL.

K. SUBMITTALS

1. PANELBOARDS, WIRING DEVICES, SWITCHES AND DISCONNECTS, LIGHTING FIXTURES, AND FUSE SUBMITTALS SHALL BE REQUIRED, AND ARE TO INCLUDE MANUFACTURER'S DATA, TEST REPORTS, PERFORMANCE DATA AND CERTIFICATIONS.

L. COMMUNICATIONS CONDUIT/BOXES

1. THE NUMBER OF BENDS IN A CONDUIT SECTION RUN SHALL NOT EXCEED TWO (2) 90-DEGREE BENDS OR EQUIVALENT OF SWEEPS AND RADIUS BENDS.

2. IN AREAS WITH NON-ACCESSIBLE CEILINGS, TELEPHONE CONDUITS SHALL BE CONTINUOUS FROM THE OUTLET BOX TO THE TELEPHONE EQUIPMENT BACKBOARD AND TERMINATED WITH A NYLON GROMMET.

3. EACH HORIZONTAL HOME-RUN CONDUIT CAN SERVE FROM ONE (1) TO THREE (3) OUTLET BOXES. FOR ONE (1) OUTLET BOX, A 3/4" CONDUIT SHALL BE USED, MINIMUM. FOR TWO (2) OUTLET BOXES, A 1" CONDUIT SHALL BE USED, MINIMUM. FOR THREE (3) OUTLET BOXES, A 1-1/4" CONDUIT SHALL BE USED, MINIMUM.

4. THE DIMENSIONS OF THE OUTLET BOX SHALL BE 4" X 4" SQUARE WITH A MINIMUM DEPTH OF 2-1/8". BOXES SHALL BE EQUIPPED WITH SINGLE DEVICE ADAPTERS (OR TWO-DEVICE ADAPTERS WHERE NEEDED). WHERE INSTALLED IN PLASTER, GYPSUM BOARD, TILE, ETC., ADAPTERS SHALL BE RAISED TO COMPENSATE FOR THE THICKNESS OF THE WALL FINISH.

M. RENOVATIONS AND ADDITIONS

1. WORK REQUIRING INTERRUPTION OF ELECTRICAL POWER, WHICH WOULD ADVERSELY AFFECT THE NORMAL OPERATION OF THE OWNER'S PROPERTY, SHALL BE DONE AT A TIME OTHER THAN NORMAL WORKING HOURS. NORMAL WORKING HOURS SHALL BE CONSIDERED EIGHT A.M. TO FIVE P.M. MONDAY THROUGH FRIDAY. SCHEDULE ALL OUTAGES WITH THE OWNER AND ARCHITECT PRIOR TO SHUTDOWN.

2. PRIOR TO SUBMITTING BIDS ON THE PROJECT, VISIT THE SITE TO BECOME AWARE OF EXISTING CONDITIONS WHICH MAY AFFECT THE COST OF THE PROJECT.

3. WHERE WORK UNDER THIS PROJECT REQUIRES EXTENSION, RELOCATION, RECONNECTION OR MODIFICATION TO EXISTING EQUIPMENT OR SYSTEMS, THE EQUIPMENT OR SYSTEMS SHALL BE RESTORED TO OPERATING CONDITION. EXTEND NEW HOMERUNS OR CIRCUIT EXTENSIONS WHERE REQUIRED. DISCONNECT AND REMOVE ALL EQUIPMENT INDICATED TO BE DEMOLISHED, INCLUDING OUTLET BOXES, DEVICES, RACEWAYS AND CONDUCTORS.

4. CARE SHALL BE EXERCISED IN THE REMOVAL AND STORAGE OF EQUIPMENT INDICATED TO BE RELOCATED, REMOVED AND/OR REUSED. PRIOR TO PLACING BACK INTO SERVICE, EXISTING EQUIPMENT SHALL BE CLEANED AND/OR RELAMPED. MARRED OR CHIPPED SURFACES SHALL BE TOUCHED-UP. DISPOSE OF ANY MATERIAL NOT WISHED TO BE KEPT BY THE OWNER.

5. PROVIDE ALL CORING, CUTTING AND PATCHING TO EXISTING WALLS, FLOORS, ETC. REQUIRED FOR THE REMOVAL OF EXISTING WORK OR THE INSTALLATION OF NEW WORK.

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	HEIGHT
$	SINGLE POLE SINGLE THROW TOGGLE SWITCH (NOTE L-1)	48"
$_3$/$_4$	THREE-WAY TOGGLE SWITCH/FOUR-WAY TOGGLE SWITCH (NOTE L-1)	48"
$_M$	MOTOR RATED SWITCH	
$_T$	THERMAL SWITCH	48"
⊕ / ⊕	DUPLEX / QUAD RECEPTACLE OUTLET (NOTE L-1)	18"
	("WP"=WEATHERPROOF, "GFI"=GROUND FAULT INTERRUPTER)	
⊕ / ⊕^{AC}	DUPLEX / QUAD RECEPTACLE OUTLET ABOVE COUNTER MOUNTED (NOTE L-1)	18"/43"
⊞ / ⊞	DUPLEX / QUAD GFI RECEPTACLE RECEPTACLE	
⊕	DUPLEX GFI RECEPTACLE RECEPTACLE ABOVE COUNTER (NOTE L-1)	43"
⊕	ISOLATED GROUND DUPLEX RECEPTACLE OUTLET	18"
⊕	SPECIAL PURPOSE RECEPTACLE OUTLET, NEMA CONFIGURATION TO MATCH PLUG. (NOTE L-1)	18"
⊙ / ⊡	DUPLEX RECEPTACLE OUTLET, CEILING MOUNTED/FLOOR MOUNTED	
J / J / J	JUNCTION BOX, CEILING/WALL/FLOOR MOUNTED	
X-1,3,5	ARROWHEAD INDICATES HOMERUN. X-1,3,5 ADJACENT TO HOMERUN ARROWHEADS INDICATES HOMERUN TO PANEL X CIRCUIT NUMBERS 1,3, AND 5.	
	RACEWAY/CABLE CONCEALED IN WALL AND/OR ABOVE CEILING	
○ ○ / ○	FLUORESCENT LIGHTING FIXTURE, 2X4, 1X4, 2X2	
● ● / ●	FLUORESCENT LIGHTING FIXTURE, 2X4, 1X4, 2X2 – PROVIDING EMERGENCY ILLUMINATION	
○ / ○	LIGHTING FIXTURE – OVERHEAD/WALL MOUNTED	
● / ●	EMERGENCY LIGHTING FIXTURE – OVERHEAD/WALL MOUNTED	
⊖⊖⊖	FLUORESCENT STRIP FIXTURE – OVERHEAD/WALLMOUNTED	
|⊖| / ⊖	EXIT SIGN, CEILING/WALL MOUNTED. PROVIDE ARROWS AS INDICATED ON DRAWINGS	
	EMERGENCY LIGHTING FIXTURE	
	PANELBOARD – WALL MOUNTED (RECESSED)	
	PANELBOARD – WALL MOUNTED (SURFACE)	
	MOTOR	
60/3/3R	NONFUSIBLE DISCONNECT SWITCH, RATING/POLES/NEMA ENCLOSURE	
60/3/3R/40	FUSIBLE DISCONNECT SWITCH, RATING/POLES/NEMA ENCLOSURE/FUSE RATING	
M	POWER METER AND SOCKET	
F	FIRE ALARM MANUAL STATION	48"
M$_{110}$	FIRE ALARM HORN/SPEAKER WITH VISUAL DEVICE (NOTE L-3), NUMERAL INDICATES CANDELA RATING	
H	FIRE ALARM HORN/SPEAKER (NOTE L-3)	
V$_{110}$	FIRE ALARM VISUAL DEVICE (NOTE L-3), NUMERAL INDICATES CANDELA RATING	
S / S	SMOKE DETECTOR (CEILING/WALL MOUNTED 4" MIN. AND 12" MAX. FROM CEILING)	
H	THERMAL DETECTOR, CEILING MOUNTED	
F	CONNECTION TO FIRE PROTECTION SYSTEM FLOW SWITCH	
T	CONNECTION TO FIRE PROTECTION SYSTEM TAMPER SWITCH	
D	DUCT MOUNTED SMOKE DETECTOR	
RS	REMOTE STATION FOR DUCT MOUNTED SMOKE DETECTOR	
FACP / FACP	FIRE ALARM CONTROL PANEL, SURFACE/RECESSED	
FAA	FIRE ALARM ANNUNCIATOR PANEL, RECESSED	
▼ / ▼ / ▼	TELEPHONE OUTLET, WALL MOUNTED/ABOVE COUNTER (NOTES L-1, L-2)/FLOOR MOUNTED	18"/43"
▼ / ▼ / ▼	COMBINATION TELEPHONE/DATA OUTLET, WALL MOUNTED/ABOVE COUNTER (NOTE L-1, L-2)/FLOOR	18"/43"
▽ / ▽ / ▽	DATA OUTLET, WALL MOUNTED/ABOVE COUNTER (NOTE L-1, L-2)/FLOOR MOUNTED	18"/43"
⊙ / ⊙ / TV	TELEVISION OUTLET WALL MOUNTED (NOTE L-1)/CEILING MOUNTED/FLOOR MOUNTED	18"

LEGEND NOTES

L-1 MOUNTING HEIGHTS NOTED ARE TO THE CENTER OF DEVICE ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE.

L-2 STUB 3/4" CONDUIT 6" ABOVE ACCESSIBLE CEILING AND TERMINATE WITH NYLON GROMMET.

L-3 FIRE ALARM VISUAL DEVICES SHALL BE WALL-MOUNTED 80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER. AUDIBLE ONLY DEVICES SHALL BE WALL-MOUNTED AT NOT LESS THAN 90" AFF AND NOT LESS THAN 6" BELOW CEILING.

ELECTRICAL ABBREVIATIONS

A	AMPERE	GEN	GENERATOR
ABV	ABOVE	GFCI/GFI	GROUND FAULT CIRCUIT INTERRUPTER
AC	ALTERNATING CURRENT	GRC	GALVANIZED RIGID STEEL CONDUIT
AFF	ABOVE FINISHED FLOOR	G OR GND	GROUND
AIC	AMPERE INTERRUPTING CAPACITY	HT	HEIGHT
AL	ALUMINUM	HTD	HIGH INTENSITY DISCHARGE
ATS	AUTOMATIC TRANSFER SWITCH	HP	HORSEPOWER
AWG	AMERICAN WIRE GAUGE	HOA	HAND-OFF-AUTOMATIC
BKR	BREAKER	HZ	HERTZ
C	CONDUIT	IG	ISOLATED GROUND
CB	CIRCUIT BREAKER	ISO	ISOLATED
CCTV	CLOSED CIRCUIT TELEVISION	JB	JUNCTION BOX
CKT	CIRCUIT	K	KILO, THOUSAND
CLG	CEILING	KCMIL	THOUSAND CIRCULAR MILS
CPU	CENTRAL PROCESSING UNIT	LED	LIGHT EMITTING DIODE
CU	COPPER	M	MOTOR
CT	CURRENT TRANSFORMER	MATV	MASTER ANTENNA TELEVISION
DC	DIRECT CURRENT	MCB	MAIN CIRCUIT BREAKER
DN	DOWN	MCC	MOTOR CONTROL CENTER
E	EMERGENCY	MH	MOUNTING HEIGHT
ER	EXISTING TO REMAIN	MLO	MAIN LUGS ONLY
EX	EXISTING	MT	MOUNT
FA	FIRE ALARM	MTG	MOUNTING
FACP	FIRE ALARM CONTROL PANEL	NC	NORMALLY CLOSED
FDR	FEEDER	NEC	NATIONAL ELECTRICAL CODE
FL	FLOOR	NF	NON FUSED
F	FUSE OR FUSED	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
FVNR	FULL VOLTAGE NON REVERSING	NIC	NOT IN CONTRACT
NL	NIGHT LIGHT		
NO	NORMALLY OPEN		
NTS	NOT TO SCALE		
P	POLE		
PNL	PANELBOARD		
PVC	POLYVINYL CHLORIDE		
RC	REMOTE CONTROL		
RECPT	RECEPTACLE		
REF	REFERENCE		
RMS	ROOT MEAN SQUARE		
SYM	SYMMETRICAL		
SW	SWITCH		
SWBD	SWITCHBOARD		
TB	TERMINAL BOX		
TEL	TELEPHONE		
TV	TELEVISION		
TYP	TYPICAL		
UG	UNDERGROUND		
UL	UNDERWRITERS LABORATORIES		
UNO	UNLESS NOTED OTHERWISE		
UPS	UNINTERRUPTED POWER SUPPLY		
V	VOLTS		
VA	VOLT-AMPERE		
W	WATTS		
WP	WEATHERPROOF COVER (RECEPTACLES SHALL BE WEATHER-RESISTANT TYPE)		
XFMR	TRANSFORMER		
XP	EXPLOSION PROOF		
Y	WYE		
Z	IMPEDANCE		

ELECTRICAL GENERAL NOTES

G1 ALL CIRCUITS SERVING NIGHT/EMERGENCY LIGHTING SHALL CONTAIN AN ADDITIONAL, UNSWITCHED 'HOT' CONDUCTOR TO ENSURE EXIT AND EMERGENCY LIGHTING FIXTURES REMAIN ON/ACTIVE AT ALL TIMES.

G2 WHEN CONDUCTOR OR CONDUIT SIZE IS INDICATED FOR BRANCH CIRCUIT HOMERUN, THE CONDUCTOR AND CONDUIT SIZE INDICATED SHALL BE USED FOR THE COMPLETE CIRCUIT.

G3 REFER TO THE APPROPRIATE DRAWINGS FOR THE EXACT LOCATION OF EQUIPMENT INSTALLED UNDER OTHER DIVISIONS OF THE DOCUMENTS WHICH REQUIRE ELECTRICAL SERVICE.

G4 CAPITAL LETTER BESIDE LIGHTING SYMBOL INDICATES FIXTURE TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE SELECTION.

G5 EQUIPMENT GROUNDING CONDUCTORS ARE TO BE INCLUDED IN ALL RACEWAYS.

G6 ELECTRICAL CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT ASSOCIATED WITH MECHANICAL, PLUMBING, ARCHITECTURAL, ETC. SYSTEMS BEING REMOVED. REMOVE ALL CONDUIT, WIRING, HARDWARE, DISCONNECTS, ETC. COMPLETELY BACK TO SOURCE. (NEAREST ACTIVE J-BOX TO REMAIN OR BRANCH CIRCUIT PANEL).

G7 PROVIDE PLENUM-RATED WIRING MATERIALS AND METHODS AS REQUIRED PER ALL APPLICABLE CODES AND STANDARDS FOR ALL SPACES UTILIZED AS RETURN AIR PLENUM.

G8 FLUORESCENT LIGHTING SHALL BE EQUIPPED WITH INTERNAL MAINTENANCE DISCONNECTS PER NEC 410.73(G).

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NO.	REVISION	BY	DATE

Addison

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

ELECTRICAL SPECIFICATIONS, LEGEND & NOTES

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
ADDISON BATH HOUSE	ELEC	EY	NOV 3, 2009 BID	#0930424	E001

PARK AND STREETSCAPE IMPROVEMENTS – VITRUVIAN PARK

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

DESCRIPTION	CIRCUIT	CONDUCTORS	STARTER/ DISCONNECT	NOTES
AH-1	A-16/18	2#12, 1#12G, 3/4"C	30/2/1	.
HP-1	A-20/22	2#10, 1#10G, 3/4"C	30/2/3R	.
EH-1	A-9/11	2#12, 1#12G-3/4"C	30/2/1	.
EH-2	A-13/15	2#10, 1#10G-3/4"C	30/2/1	.
EH-3	A-17/19	2#10, 1#10G-3/4"C	30/2/1	.
EF-1,2,3	LIGHTING CKT	2#12, 1#12G-3/4"C	$\$_M$	CONTROL EF VIA OCCUPANCY SENSOR
IWH-1	A-5/7	2#10, 1#10G-3/4"C	30/2/1	.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMPS	NOTES
A	1' X 4', 2-LAMP FLUORESCENT WITH WRAPAROUND ACRYLIC VANDAL PROOF, ELECTRONIC BALLAST.	2-F32T8/SP35	
B	3', 2-LAMP FLUORESCENT, VANDAL PROOF, WALL MOUNTED VANITY, ELECTRONIC BALLAST.	2-F25T8/SP35	
C	WALL MOUNTED, 42 WATT COMPACT FLUORESCENT, VANDAL PROOF, WET LOCATION, ELECTRONIC COLD WEATHER BASLLAST.	2-42W CF	

NOTES:

1. ALL FINAL FIXTURES SPECIFIED AND APPROVAL BY THE OWNER PRIOR TO ANY PURCHASE. SELECTIONS TO BE SUBMITTED TO AND APPROVED BY OWNER.

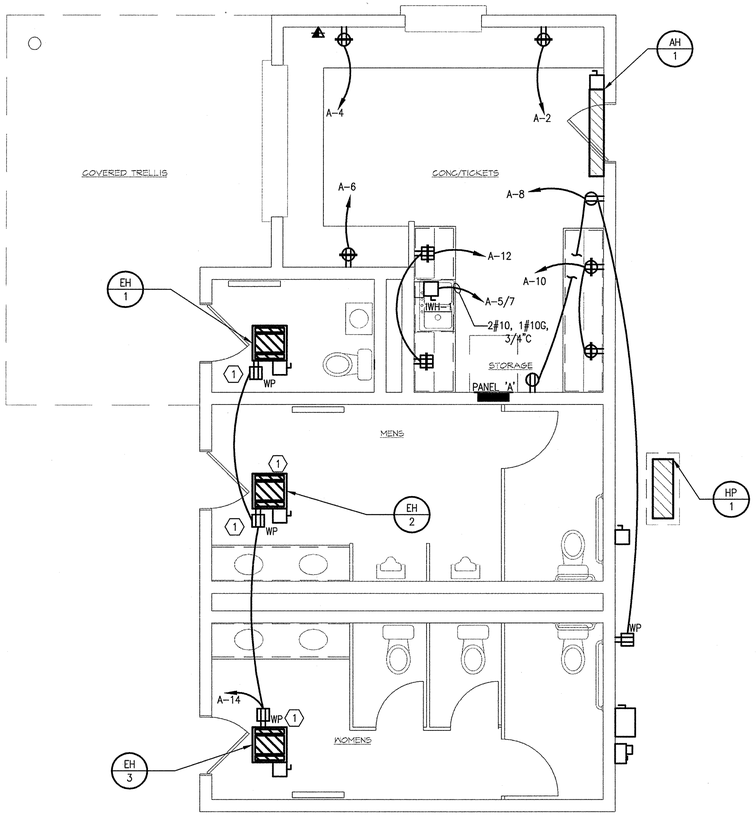
2. PROVIDE ALL NECESSARY HARDWARE AND ACCESSORIES REQUIRED TO MAINTAIN THE FIRE RATING AND/OR FIREPROOF INTEGRITY OF CEILINGS, WALLS, SURFACES, ETC. TO/ON/IN WHICH FIXTURES ARE INSTALLED.

PANELBOARD SCHEDULE - 'A'

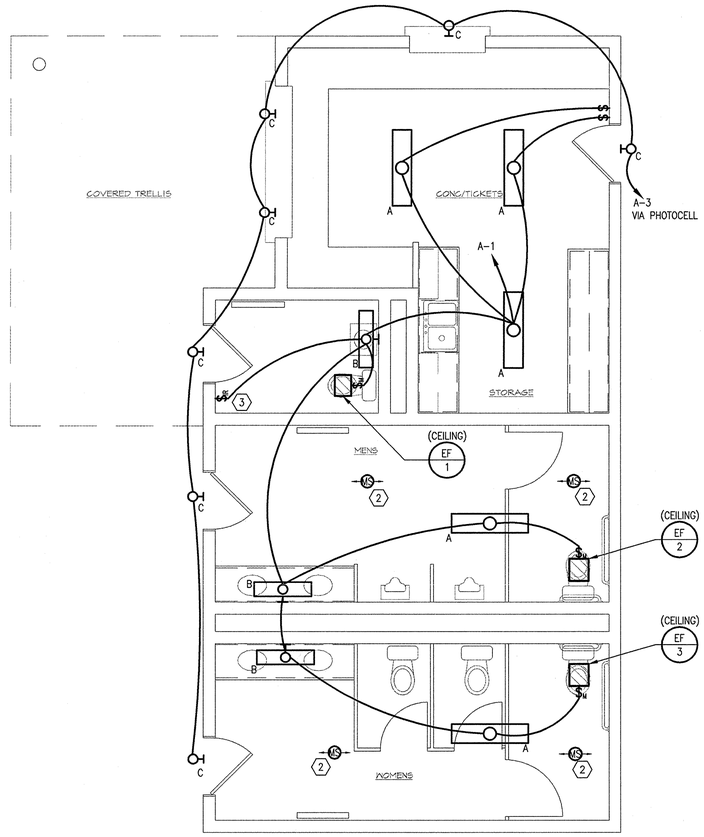
MAIN: 125A MLO | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4 | MOUNTING: RECESSED | AIC: 22K

CKT #	TRIP POLE	DESCRIPTION	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	PHASE A B C	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	TRIP POLE	CKT #
1	20/1	LIGHTING	0.6									1.0						REC - TICKETS	20/1	2
3	20/1	EXTERIOR LIGHTING	0.4									1.0						REC - TICKETS	20/1	4
5	30/2	IWH-1					3.2					1.0						REC - TICKETS	20/1	6
7	--	--					3.2					0.5						REC - TICKETS	20/1	8
9	20/2	EH-1					1.5					1.2						REC - STORAGE	20/1	10
11	--	--					1.5					1.2						REC - STORAGE	20/1	12
13	30/2	EH-2					2.5					0.5						REC - RESTROOM	20/1	14
15	--	--					2.5								1.4			AH-1	15/2	16
17	30/2	EH-3					2.5								1.4			--	--	18
19	--	--					2.5							2.8				CU-1	30/2	20
21		SPACE												2.8				--	--	22
23		SPACE																SPACE		24
25		SPACE																SPACE		26
27		SPACE																SPACE		28
29		SPACE																SPACE		30
31		SPACE																SPACE		32
33		SPACE																SPACE		34
35		SPACE																SPACE		36
37		SPACE																SPACE		38
39		SPACE																SPACE		40
41		SPACE																SPACE		42
LIGHTING (KVA):	1.0		1.0	0.0	0.0	0.0	19.4	0.0	0.0		0.0	6.4	0.0	5.6	2.8	0.0	0.0	CONNECTED LOAD (KVA):		35.2
RECEPTACLES (KVA):	6.4																	DEMAND LOAD (KVA):		35.2
MOTORS (KVA):	0.0									PHASE A	14	113.3								
A/C (KVA):	5.6									PHASE B	11	90.0						CONNECTED LOAD (AMPS):		97.7
HEATING (KVA):	22.2									PHASE C	11	90.0						DEMAND LOAD (AMPS):		97.7
KITCHEN (KVA):	0.0										KVA	AMPS								
MISCELLANEOUS (KVA):	0.0																	AMPACITY REQUIRED:		98.4

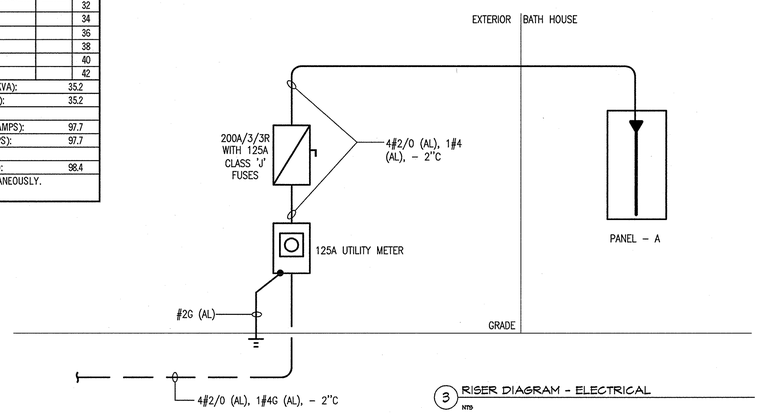
NOTE: BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.



2 FLOOR PLAN - POWER
1/4" = 1'-0"



1 FLOOR PLAN - LIGHTING
1/4" = 1'-0"



3 RISER DIAGRAM - ELECTRICAL
NTS

KEY NOTES:

1. MOUNT RECEPTACLE ABOVE CEILING OR NEAR HEATER FOR MAINTENANCE.
2. PROVIDE CEILING MOUNTED OCCUPANCY SENSOR FOR LIGHTING AND EXHAUST FAN CONTROL. SENSOR SHALL BE LEVITON OR EQUAL.
3. PROVIDE WALL MOUNTED OCCUPANCY SENSOR FOR LIGHTING AND EXHAUST FAN. SENSOR SHALL BE LEVITON OR EQUAL.

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29 OCT 09

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

ELECTRICAL PLAN, SCHEDULES & RISER DIAGRAM

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PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
ADDISON BATH HOUSE	ELEC	EY	NOV 3, 2009 BID	#0930424	E100

PARK AND STREETSCAPE IMPROVEMENTS - VITRUVIAN PARK

DRAINAGE PRODUCTS/SPECIALTIES

UNLESS OTHERWISE INDICATED NUMBERS ARE JAY R. SMITH. APPROVED EQUAL PRODUCTS: ZURN, JOSAM, WADE, WATTS AND PRECISION PLUMBING PRODUCTS

WCO–WALL CLEANOUT – FINISHED AREAS:
JAY R. SMITH FIG. 4436 C.I. FERRULE FOR NO HUB OR SERVICE WEIGHT PIPE, NICKEL BRONZE ROUND FRAME AND COVER WITH SECURING SCREWS.

YCO–EXTERIOR PAVED/CONCRETE AREAS:
JAY R. SMITH FIG. 4261 C.I. FLANGED HOUSING WITH HEAVY DUTY C.I. COVER, LIFTING DEVICE, GASKET SEAL THREADED PLUG, V.P. SCREWS IN COVER.

YCO–EXTERIOR UNSURFACED AREAS:
JAY R. SMITH FIG. 4261 C.I. FLANGED HOUSING WITH HEAVY DUTY C.I. COVER, LIFTING DEVICE, GASKET SEAL THREADED PLUG, V.P. SCREWS IN COVER. PROVIDE 24" x 12" CONCRETE PAD FLUSH WITH SURFACE.

FD "G" – FLOOR DRAINS–GENERAL/RESTROOMS:
JAY R. SMITH FIG. 2005–B6 SERIES C.I. FLOOR DRAIN WITH 6" DIAMETER SQUARE NICKEL BRONZE STRAINER, SPEEDI–SET OUTLET CONNECTION AND FITTED W/PRO–VENT TRAP GUARD.

WATER HAMMER ARRESTORS:
P.P.P. SYSTEM RATED PLUS SERIES COPPER WATER HAMMER ARRESTORS. INSTALL IN AN UPRIGHT POSITION AND IN ACCORDANCE WITH PDI STANDARD WH–201.

NFHB–HOSEBIBB–EXTERIOR:
JAY R. SMITH FIG. 5609–QT NON FREEZE 3/4" CAST BRONZE EXPOSED HYDRANT INTEGRAL VACUUM BREAKER, NICKEL BRONZE FACE, AND SIZED IN ACCORDANCE WITH WALL THICKNESS.

PLUMBING MATERIALS

1. COLD AND HOT WATER PIPING ABOVE GRADE SHALL BE TYPE L HARD DRAWN COPPER TUBING CONFORMING TO ASTM B–88 WITH SWEAT JOINTS AND CAST OR WROUGHT FITTINGS. ALL JOINTS SHALL BE MADE WITH LEAD FREE SOLDER, DOMESTIC COLD WATER SERVICE PIPING BELOW GRADE SHALL BE TYPE 'K' COPPER. DOMESTIC WATER BRANCH PIPING BELOW GRADE SHALL BE PROTECTED WITH SLEEVES AT ALL PENETRATIONS THROUGH CONCRETE. THERE SHALL BE NO JOINTS IN PIPING BELOW THE SLAB.
2. SANITARY WASTE & VENT, AND STORM DRAIN PIPING ABOVE GROUND SHALL BE NO–HUB CAST–IRON WITH STAINLESS STEEL COUPLINGS, OR SCHEDULE 40 DWV PVC WITH SOLVENT JOINTS IF APPROVED BY LOCAL CODE OFFICIAL. PVC PIPING SHALL NOT BE LOCATED IN RETURN AIR PLENUM SPACES.
3. SANITARY WASTE & STORM DRAIN PIPING BELOW GROUND SHALL BE CAST–IRON WITH PUSH–ON JOINTS, OR SCHEDULE 40 DWV PVC WITH SOLVENT JOINTS.
4. NATURAL GAS PIPING ABOVE GRADE SHALL BE SCHEDULE 40 BLACK STEEL WITH WELDED JOINTS. NATURAL GAS PIPING BELOW GRADE SHALL BE SCHEDULE 40 BLACK STEEL WITH FACTORY APPLIED PLASTIC COATING, WELDED JOINTS, COATED WITH BITUMASTIC AND WRAPPED WITH TAPE COATING AT ALL JOINTS.
5. ALL ABOVE GRADE HOT AND COLD DOMESTIC WATER, AND RECIRCULATION PIPING SHALL BE INSULATED EXCEPT AT HORIZONTAL CHASE BRANCH PIPING TO INDIVIDUAL PLUMBING FIXTURES AND ON VERTICAL RISERS WITHIN SEALED CHASES. ALL HOT WATER, HOT WATER RETURN PIPING ABOVE GRADE SHALL BE INSULATED WITH 1 INCH NOMINAL THICKNESS PIPE INSULATION WITH VAPOR BARRIER JACKET, ALL COLD WATER PIPING ABOVE GRADE SHALL BE INSULATED WITH 1/2 INCH THICKNESS INSULATION ON PIPING 2" AND SMALLER, 1" THICK INSULATION ON PIPING 2 1/2" AND LARGER. ALL HORIZONTAL STORM DRAIN PIPING AND ROOF DRAIN BODIES SHALL BE INSULATED. MATERIALS AS MANUFACTURED BY ARMSTRONG, CERTAINTEED, KNAUF OR EQUAL. PRODUCTS BY OWENS–CORNING ARE NOT ALLOWED.

PLUMBING LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	AFF	ABOVE FINISHED FLOOR
	B/C	BELOW COUNTER
	B/F	BELOW FLOOR
	CV	CHECK VALVE
	CW	COLD WATER PIPING
	DN	PIPING TURNING DOWN
	FD	FLOOR DRAIN
	GV	GATE/BALL VALVE
	HB/NFHB	HOSE BIBB/NON–FREEZE HOSE BIBB
	H.C.	HANDICAPPED
	HD	HUB DRAIN
	HW	HOT WATER PIPING
	P–TRAP	P–TRAP
	PRV	PRESSURE REDUCING VALVE
	RPBP	REDUCED PRESSURE BACKFLOW PREVENTOR
S	S,W	SOIL, WASTE PIPING (ABOVE GROUND)
S	S,W	SOIL, WASTE PIPING (BELOW GROUND)
	TP	TRAP PRIMER
	UNION	UNION
	UP	PIPING TURNING UP
	V	VENT PIPING
	VTR	VENT THRU ROOF
	WCO	WALL CLEANOUT
	WH/NFWH	WALL HYDRANT/NON–FREEZE WALL HYDRANT
	YCO	YARD CLEANOUT

PLUMBING NOTES

1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS OF ALL PLUMBING FIXTURES.
2. ALL PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2006 INTERNATIONAL PLUMBING CODE WITH ALL APPLICABLE LOCAL AMENDMENTS, CODES AND ORDINANCES.
3. ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED FROM THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR BE SUPPORTED FROM CEILING TILES.
4. WATER PIPING ROUTED ABOVE CEILING AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE (UNDERSIDE) OF CEILING INSULATION AND HEATED SIDE (INSIDE) OF WALL INSULATION.
5. SANITARY AND DRAINAGE PIPING 2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM, PIPING 3" AND LARGER SHALL BE SLOPED AT 1/8" PER FOOT MINIMUM.
6. TOPS OF ALL FLOOR DRAINS AND CLEANOUTS SHALL BE SET FLUSH WITH FINISHED FLOOR.
7. ALL FLOOR DRAINS AND HUB DRAINS SHALL BE EQUIPPED WITH PRO–VENT TRAP GUARD DEVICES.
8. LOCATE ALL SECTIONAL OR MAIN CONTROL VALVES WITHIN 1'–0" FROM ACCESS PANELS, CEILING TILES, OR OTHER POINT OF ACCESS.
9. ALL COLD WATER, HOT WATER AND DRAIN PIPING AT HANDICAPPED FIXTURES SHALL BE INSULATED WITH HANDI–LAV GUARD MODELS 102 AND 105 INSULATION KITS.
10. PROVIDE SHOCK ABSORBERS SIZED PER PDI SPECIFICATIONS ON ALL DOMESTIC WATER LINES SERVING FLUSH VALVE FIXTURES, WASHING MACHINES SUPPLIES, PRV STATIONS AND OTHER INSTALLATIONS WITH QUICK CLOSING VALVES.
11. PROVIDE DOUBLE CHECK BACKFLOW PREVENTOR AT DOUBLE COMPARTMENT SINK AND ANY VENDING EQUIPMENT CONNECTIONS AS REQUIRED BY LOCAL CODE AND AUTHORITIES. BACKFLOW PREVENTORS ARE TO BE LOCATED WITH A MINIMUM OF 1'–0" CLEARANCE AT THE LOWEST POINT AND AT NO MORE THAN 5'–0" ABOVE FLOOR AT THE HIGHEST POINT OF THE DEVICE.
12. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND THE ELECTRICAL CONTRACTOR, AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN.
13. ALL PLUMBING EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A MINIMUM PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE.
14. ALL PIPE PENETRATIONS OF FIRE AND/OR SMOKE RATED ASSEMBLIES SHALL BE FIRE STOPPED AS REQUIRED TO RESTORE ASSEMBLY TO ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS SHALL BE AS MANUFACTURED BY 3M COMPANY, CP25 CAULK, CS195 COMPOSITE PANEL, FS195 WRAP/SRINK, TREMCO, HILTI, METACAULK, NELSON, OR PSS 7900 SERIES SYSTEMS AS RECOMMENDED BY MANUFACTURER FOR PARTICULAR APPLICATIONS, OR EQUIVALENT SYSTEM AS APPROVED BY LOCAL CODE OFFICIALS. ALSO, REFER TO DIVISION 7 – THERMAL AND MOISTURE PROTECTION.
15. ALL VENT THRU ROOF PENETRATIONS SHALL BE ROUTED TO TERMINATE AT THE LEAST VISIBLE LOCATION FROM THE ENTRY VIEW.

PLUMBING FIXTURE SCHEDULE

FIXTURE SELECTION IS BASED ON KOHLER MODELS UNLESS OTHERWISE NOTED, APPROVED EQUAL MANUFACTURERS AS FOLLOWS:

FIXTURES:	AMERICAN STANDARD, KOHLER,
FAUCETS & TRIM:	KOHLER, AMERICAN STANDARD, BRASSCRAFT, DELTA, MCGUIRE, SANITARY DASH, ZURN
FLUSH VALVES:	DELANY, SLOAN, ZURN
FIXTURE SEATS:	AMERICAN STANDARD, BEMIS, BENEKE, CENTOCO, CHURCH, KOHLER
FIXTURE CARRIERS:	JOSAM, JAY R. SMITH, WADE, ZURN
MOP SINKS:	FIAT, FLORESTONE, STERN WILLIAMS
STAINLESS STEEL SINKS:	ELKAY, JUST, KOHLER
SHOWER VALVES & TRIM:	AMERICAN STANDARD, DELTA, KOHLER, SPEAKMAN, ZURN,
WATER COOLERS:	ELKAY, HALSEY TAYLOR, OASIS

WC1 WATER CLOSET – WALL MOUNTED – FLUSH VALVE – HET 1.28 GPF – BACK SPUD: AMERICAN STANDARD FLOWISE 3357.128 SIPHON JET ELONGATED BOWL, 1–1/2" BACK SPUD, SELECTRONIC FLUSH VALVE 6065.121.002, EXTRA HEAVY DUTY SEAT 5905.100, OPEN FRONT LESS COVER, BOLT CAPS, CARRIER AS REQUIRED.

WC2 WATER CLOSET – ADA:
SAME AS WC1 EXCEPT MOUNTED AT HANDICAPPED RIM HEIGHT OF 16–1/8" AFF.

L1 LAVATORY – COUNTERTOP: ADA COMPLIANT
JUST OLF–1619 STAINLESS STEEL SELF–RIMMING 19" X 16" LAVATORY. AMERICAN STANDARD SELECTRONIC 6055.205 DC POWERED FAUCET, WITH AERATOR, 4" SPREAD, JUST J–15–FS GRID DRAIN, MCGUIRE 170 CHROME PLATED ANGLE SUPPLY WITH 1/2" O.D. X 12" FLEXIBLE RISER AND 1/2" O.D. WHEEL HANDLE STOP WITH WROUGHT ESCUTCHEON, AMERICAN STANDARD 4401014 P–TRAP 1–1/4" X 1–1/4" WITH CAST BRASS NUTS AND CLEANOUT PLUG.

L2 LAVATORY – WALL HUNG – ADA: AMERICAN STANDARD – 0356.028 21" X 18", 4" CENTERS, CONCEALED ARMS, FRONT OVERFLOW AND BACKSLASH, WHITE. FAUCET – AMERICAN STANDARD 2385.404 SINGLE LEVER HANDLE, 4" CENTERS, FLOW RESTRICTOR, WITH GRID DRAIN REPLACEABLE CERAMIC DISC CARTRIDGE, AERATOR, 1 1/4" TAILPIECE, CHROME FINISH. SUPPLY – BRASSCRAFT SR1712A – 1/2" O.D. X 3/8" O.D. ANGLE SUPPLY, LOOSE KEY STOP, WALL FLANGE, CHROME PLATED. TRAP – MCGUIRE 8902 – 1 1/4" X 1 1/2", 17 GAUGE ADJUSTABLE TRAP WITH CLEANOUT AND WALL FLANGE, CHROME FINISH. DRAIN – MCGUIRE 155–WC – 1 1/4", 17 GAUGE OFFSET DRAIN WITH OPEN GRID STRAINER, CHROME PLATED. INSULATION KIT – HANDI LAV–GUARD MODEL 102 AND 105 – SELF FASTENING, VINYL INSULATION COVERS FOR DRAIN, TRAPS, AND SUPPLY PIPING WITH ACCESSIBLE ANGLE VALVE INSULATION COVER, WHITE. CARRIER – SMITH 700 SERIES – ADJUSTABLE FLOOR SUPPORT WITH CONCEALED ARMS.

UR1 URINAL – WALL HUNG – FLUSH VALVE – HET 0.125 GPF – BACK SPUD:
AMERICAN STANDARD FLOWISE 6515.005 WASHOUT FLUSH, PRIVACY SHIELDS, 3/4" BACK SPUD, SELECTRONIC DC POWERED FLUSH VALVE 6063.305.007.

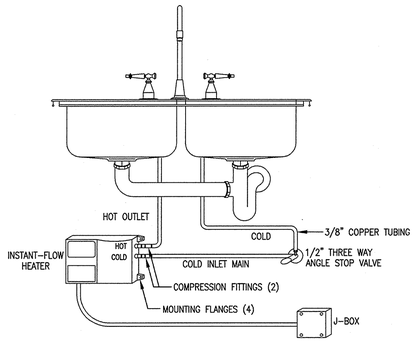
UR2 URINAL – ADA:
SAME AS UR1, EXCEPT MOUNTED AT HANDICAPPED RIM HEIGHT OF 15–1/4" A.F.F.

S1 SINK – DOUBLE COMPARTMENT:
JUST DL–2233–A–GR 14" X 16" INSIDE BOWL SIZE SELF RIMMING STAINLESS STEEL, JWF–200 CONCEALED LEDGEMOUNT DUAL HANDLE FAUCET WITH SWING NECK SPOUT, CHROME PLATED, CHROME CRUMB CUP STRAINER, CHROME 1–1/2" P–TRAP AND SUPPLIES WITH STOPS, HANDI–LAV GUARD MODELS 102/105 INSULATION KITS.

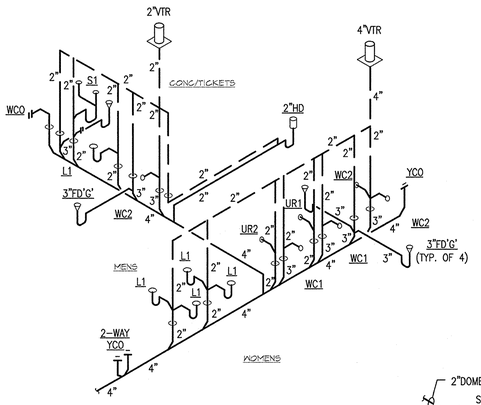
WATER HEATER SCHEDULE

SYMBOL	MANUFACTURER MODEL NO.	GPM REC./TEMP. RISE	OUTLET TEMPERATURE	NOTES
IWH–1	CHRONOMITE #M–30	4.2 AT 1 GPM	120°F	1,2

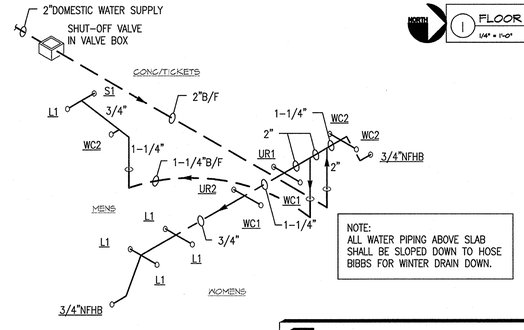
NOTES:
1. PROVIDE BALL VALVES WITH UNIONS AND DIELECTRIC FITTINGS ON WATER INLET AND OUTLET CONNECTIONS.
2. ALL UNITS SHALL MEET ASHRA 90.1–2004 AND ALL LOCAL CODE REQUIEMENTS.



Instantaneous Water Heater
NOT TO SCALE



Sanitary Riser
NOT TO SCALE

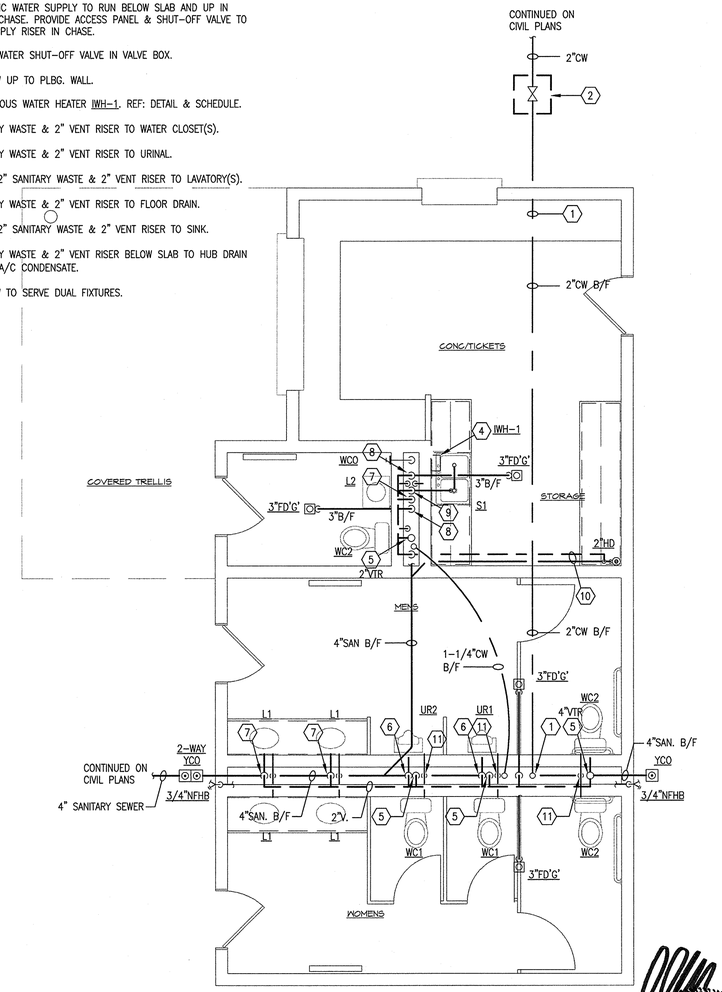


Water Riser
NOT TO SCALE

NOTE:
ALL WATER PIPING ABOVE SLAB SHALL BE SLOPED DOWN TO HOSE BIBBS FOR WINTER DRAIN DOWN.

KEY NOTES:

1. 2" DOMESTIC WATER SUPPLY TO RUN BELOW SLAB AND UP IN PLUMBING CHASE. PROVIDE ACCESS PANEL & SHUT–OFF VALVE TO WATER SUPPLY RISER IN CHASE.
2. DOMESTIC WATER SHUT–OFF VALVE IN VALVE BOX.
3. 1–1/4" CW UP TO PLBG. WALL.
4. INSTANTANEOUS WATER HEATER IWH–1. REF: DETAIL & SCHEDULE.
5. 3" SANITARY WASTE & 2" VENT RISER TO WATER CLOSET(S).
6. 3" SANITARY WASTE & 2" VENT RISER TO URINAL.
7. 3/4" CW, 2" SANITARY WASTE & 2" VENT RISER TO LAVATORY(S).
8. 3" SANITARY WASTE & 2" VENT RISER TO FLOOR DRAIN.
9. 3/4" CW, 2" SANITARY WASTE & 2" VENT RISER TO SINK.
10. 2" SANITARY WASTE & 2" VENT RISER BELOW SLAB TO HUB DRAIN TO SERVE A/C CONDENSATE.
11. 1–1/4" CW TO SERVE DUAL FIXTURES.



1 FLOOR PLAN – PLUMBING
1/4" = 1'–0" AGAD

STATE OF TEXAS
ANDREW H. SMITH
89858
LICENSED PROFESSIONAL ENGINEER
10-30-09

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
DALLAS COUNTY, TEXAS

PARK AND STREETSCAPE IMPROVEMENTS
VITRUVIAN PARK

PLUMBING PLAN, NOTES, LEGEND, SCHEDULES, DETAILS & RISERS

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
ADDISON BATH HOUSE	PLUMB	SP	NOV 3, 2009 BID	#0930424	P100

Jordan & Skala Engineers, Inc.
Project Number - 0930424
14240 MIDWAY RD., SUITE 350 DALLAS, TX 75244–5138
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