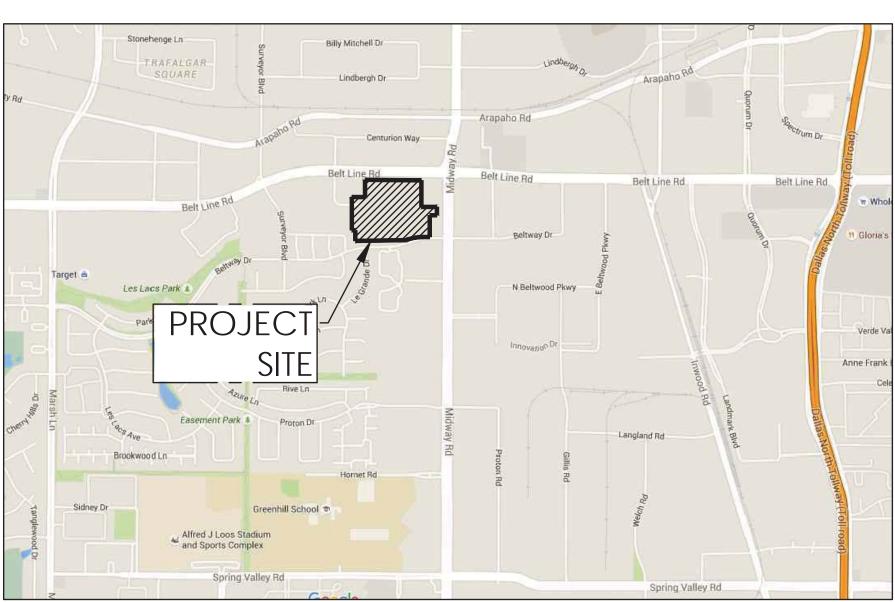
FOR ADDISON GROVE

IMPROVEMENT PLANS TOWN OF ADDISON, TEXAS PUBLIC WORKS #16-02



CIVIL ENGINEER

SAWYER ENGINEERING, INC. 1520 OLIVER STREET HOUSTON, TEXAS 77007 TBPE FIRM: F-9171 PH: (832) 553-5948 CONTACT: CARMEN PEARSON, P.E.





TODD MEIER MAYOR

BRUCE ARFSTEN MAYOR PRO TEMPORE

> AL ANGELL JIM DUFFY PAUL WALDEN DALE WILCOX

COUNCIL MEMBERS

WES PIERSON **CITY MANAGER**

LISA PYLES

DIRECTOR OF INFRASTRUCTURE AND DEVELOPMENT SERVICES

JASON SHROYER

ASSISTANT DIRECTOR - INFRASTRUCTURE AND DEVELOPMENT SERVICES

NOTE: THIS PLAN CONFORMS WITH DESIGN STANDARDS INCLUDED IN THE TOWN OF ADDISON TRANSPORTATION PLAN, WATER SYSTEM REQUIREMENTS, WASTE WATER SYSTEM REQUIREMENTS, AND DRAINAGE CRITERIA MANUAL

VICINITY MAP NOT TO SCALE

SURVEYOR

U.S. SURVEYOR 4929 RIVERWIND POINTE DRIVE EVANSVILLE, INDIANA 47715 PH: (800) TO SURVEY

KIMLEY HORN 12750 MERIT DRIVE, SUITE 1000 DALLAS, TEXAS 75251 FIRM #10115500 PH: (972) 770-1300

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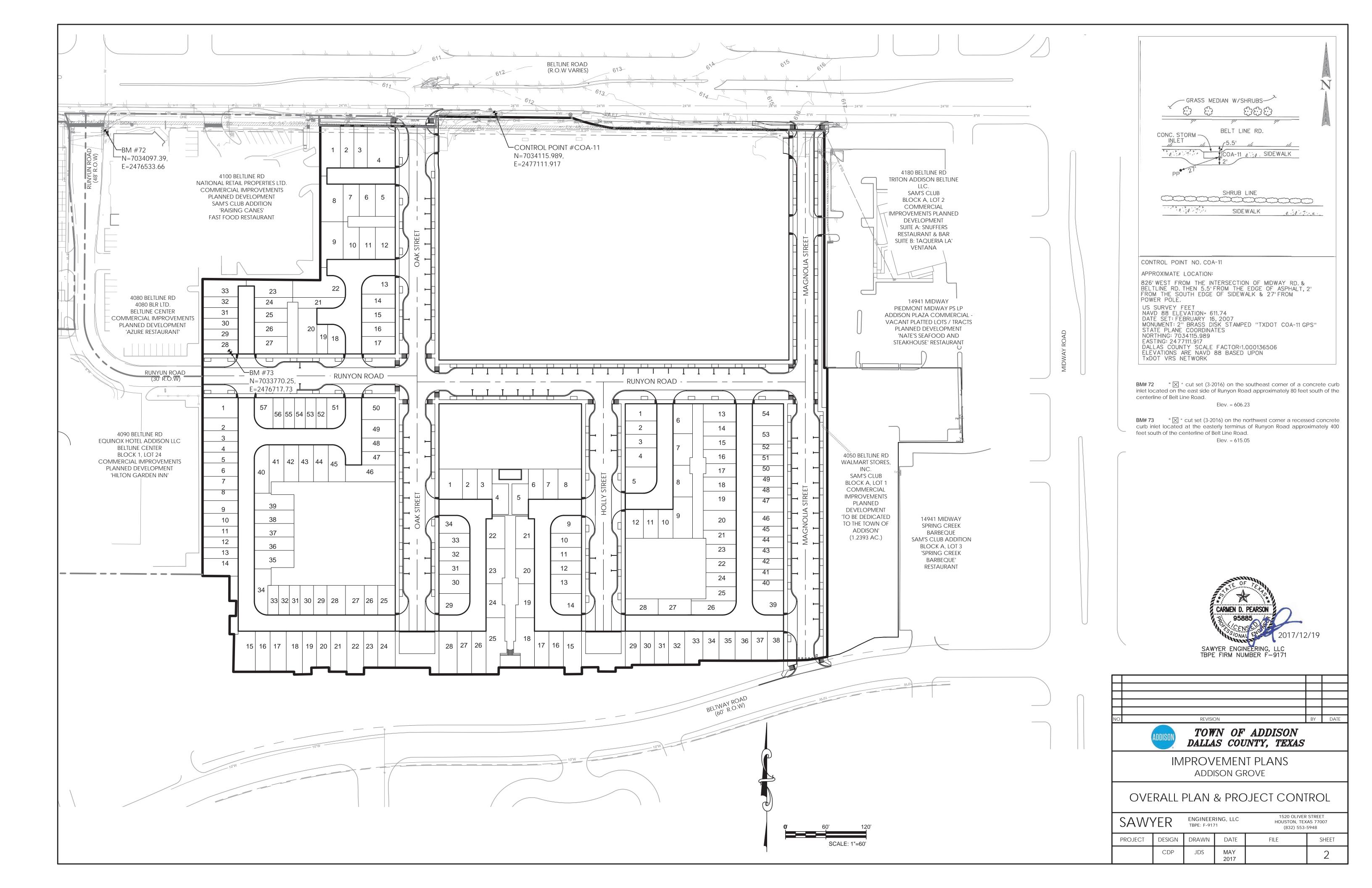


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<u> </u>
GEND & ABBREVIATIONS
I & NOTES
T
Road (West)
ROAD (EAST)
EET
A STREET
JT
RAINAGE SYSTEM "A"
RAINAGE SYSTEM "B"
AINAGE STSTEIMED
STREET
YON ROAD
LY STREET
GNOLIA STREET
N
AILS
AYOUT & NOTES
AN & PROFILE - OAK STREET
AN & PROFILE - RUNYON ROAD (WEST)
AN & PROFILE - RUNYON ROAD (EAST)
AN & PROFILE - HOLLY STREET
AN & PROFILE - MAGNOLIA STREET
<u>)</u>

100			SCAPE REFERENCE PLAN
L0.0	R.O.W.	<u> </u>	SCAPE REFERENCE PLAN
L1.0	R.O.W.		UT PLAN
L1.1	R.O.W.		
L1.2	R.O.W.		
L1.3	R.O.W.		
L2.0			DSCAPE DETAILS
L2.1			DSCAPE DETAILS
L3.0			GATION PLAN
			GATION PLAN
L3.1			
L3.2			GATION PLAN
L3.3			
L3.4			GATION DETAILS
L3.5			GATION DETAILS
L4.0	R.O.W.	LAND	DSCAPE PLAN
L4.1	R.O.W.	LAND	DSCAPE PLAN
L4.2	R.O.W.	LAND	DSCAPE PLAN
L4.3	R.O.W.	LAND	dscape plan
L4.4	R.O.W.	LAND	dscape details
L5.0	R.O.W.	SITE F	URNISHING AND LIGHTING PLAN
L5.1	R.O.W.	SITE F	URNISHING AND LIGHTING PLAN
L5.2	R.O.W.	SITE F	URNISHING AND LIGHTING PLAN
L5.3	R.O.W.	SITE F	URNISHING AND LIGHTING PLAN
	$R \cap W$	SITE F	URNISHING AND LIGHTING DETAILS
20.4	1		
			S REFERENCE PLAN
L0.0	PARKS		ENCE PLAN
L1.0	PARKS		
L1.1	PARKS		UT PLAN
L1.2	PARKS	LAYO	UT PLAN
L2.0	PARKS	HAR	DSCAPE DETAILS
L2.1	PARKS	HAR	DSCAPE DETAILS
L2.2	PARKS	HAR	dscape details
L2.3	PARKS	HAR	dscape details
L2.4	PARKS	HAR	DSCAPE DETAILS
L2.5	PARKS	HAR	DSCAPE DETAILS
L3.0	PARKS	IRRIC	GATION PLAN
L3.1	PARKS	IRRIC	GATION PLAN
L3.2			GATION PLAN
L3.4			GATION DETAILS
L3.5			GATION DETAILS
L4.0			DSCAPE PLAN
L4.1	PARKS		DSCAPE PLAN
L4.2	PARKS		DSCAPE PLAN
L4.2	PARKS		URNISHING AND LIGHTING PLAN
L5.1	PARKS		URNISHING AND LIGHTING PLAN
L5.2		I	URNISHING AND LIGHTING PLAN
L5.3	PARKS		URNISHING AND LIGHTING DETAILS
L5.4	PARKS	SITE F	URNISHING AND LIGHTING DETAILS
L6.0	PARKS	GRA	DING AND DRAINAGE PLAN
L6.1	PARKS	GRA	DING AND DRAINAGE PLAN
L6.2	PARKS	GRA	DING AND DRAINAGE PLAN
			GREENSPACE REFERENCE PLAN
		PACE	LANDSCAPE REFERENCE PLAN
100	GREEN SE		
L0.0 L1.0			I AYOUT PLAN
L0.0 L1.0 L1.1			layout plan Not used
L1.0	GREEN SF	PACE	
L1.0 L1.1	GREEN SF	PACE	NOT USED
L1.0 L1.1 L1.2 L1.3 L2.0	GREEN SF GREEN SF GREEN SF	PACE PACE PACE PACE	NOT USED LAYOUT PLAN LAYOUT PLAN HARDSCAPE DETAILS
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L1.0 L1.1 L1.2 L1.3 L2.0 L2.1 L2.2	GREEN SA GREEN SA GREEN SA GREEN SA GREEN SA	PACE PACE PACE PACE PACE PACE	NOT USED LAYOUT PLAN LAYOUT PLAN HARDSCAPE DETAILS HARDSCAPE DETAILS HARDSCAPE DETAILS
L1.0 L1.1 L1.2 L1.3 L2.0 L2.1 L2.2 L2.3	GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF	PACE PACE PACE PACE PACE PACE PACE	NOT USED LAYOUT PLAN LAYOUT PLAN HARDSCAPE DETAILS HARDSCAPE DETAILS HARDSCAPE DETAILS HARDSCAPE DETAILS
L1.0 L1.1 L1.2 L1.3 L2.0 L2.1 L2.2 L2.3 L2.4	GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF	PACE PACE PACE PACE PACE PACE PACE PACE	NOT USED LAYOUT PLAN LAYOUT PLAN HARDSCAPE DETAILS HARDSCAPE DETAILS HARDSCAPE DETAILS HARDSCAPE DETAILS HARDSCAPE DETAILS
L1.0 L1.1 L1.2 L1.3 L2.0 L2.1 L2.2 L2.3 L2.4 L2.5	GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF	PACE PACE PACE PACE PACE PACE PACE PACE	NOT USED LAYOUT PLAN LAYOUT PLAN HARDSCAPE DETAILS HARDSCAPE DETAILS HARDSCAPE DETAILS HARDSCAPE DETAILS HARDSCAPE DETAILS HARDSCAPE DETAILS
L1.0 L1.1 L1.2 L1.3 L2.0 L2.1 L2.2 L2.3 L2.4	GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF	PACE PACE PACE PACE PACE PACE PACE PACE	NOT USED LAYOUT PLAN LAYOUT PLAN HARDSCAPE DETAILS HARDSCAPE DETAILS HARDSCAPE DETAILS HARDSCAPE DETAILS HARDSCAPE DETAILS
L1.0 L1.1 L1.2 L1.3 L2.0 L2.1 L2.2 L2.3 L2.4 L2.5 L3.0	GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF	PACE PACE PACE PACE PACE PACE PACE PACE	NOT USED LAYOUT PLAN LAYOUT PLAN HARDSCAPE DETAILS HARDSCAPE DETAILS HARDSCAPE DETAILS HARDSCAPE DETAILS HARDSCAPE DETAILS HARDSCAPE DETAILS IRRIGATION PLAN
L1.0 L1.1 L1.2 L1.3 L2.0 L2.1 L2.2 L2.3 L2.4 L2.5 L3.0 L3.1	GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF	PACE PACE PACE PACE PACE PACE PACE PACE	NOT USED LAYOUT PLAN LAYOUT PLAN HARDSCAPE DETAILS HARDSCAPE DETAILS HARDSCAPE DETAILS HARDSCAPE DETAILS HARDSCAPE DETAILS HARDSCAPE DETAILS IRRIGATION PLAN NOT USED
L1.0 L1.1 L1.2 L2.0 L2.1 L2.2 L2.3 L2.4 L2.5 L3.0 L3.1 L3.2	GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF GREEN SF	PACE PACE PACE PACE PACE PACE PACE PACE	NOT USED LAYOUT PLAN LAYOUT PLAN HARDSCAPE DETAILS HARDSCAPE DETAILS HARDSCAPE DETAILS HARDSCAPE DETAILS HARDSCAPE DETAILS HARDSCAPE DETAILS IRRIGATION PLAN NOT USED IRRIGATION PLAN
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- 1. STANDARDS AND SPECIFICATIONS: ALL MATERIALS, CONSTRUCTION METHODS, WORKMANSHIP, EQUIPMENT, SERVICES AND TESTING FOR ALL PUBLIC IMPROVEMENTS SHALL BE IN ACCORDINANCE WITH THE GOVERNING AUTHORITIES' ORDINANCES, REGULATIONS, REQUIREMENTS, STATUTES, SPECIFICATIONS AND DETAILS, LATEST PRINTING AND AMENDMENTS THERETO. THE GOVERNING AUTHORITIES' INFRASTRUCTURE 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 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 THE 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 COST 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 ALL GOVERNMENTAL BODIES HAVING JURISDICTION OR AUTHORITY FOR SUCH ENACTMENT. ALL WORK REQUIRED UNDER THIS CONTRACT SHALL COMPLY WITH ALL REQUIREMENTS OF LAW, 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 AT WORK. THE 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 AS SO NOT TO ENDANGER THE WORK OR PREVENT FREE ACCESS TO ALL FIRE HYDRANTS, WATER VALVES, WATER METERS, 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 INCASES 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 TO 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 THE 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 OF 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.

- NO WORK WILL BE ALLOWED TO PROCEED BEFORE SUCH PERMITS ARE OBTAINED.
- CONTRACTOR.
- TESTING LABORATORY, EMPLOYED AND PAID DIRECTLY BY THE CONTRACTOR.
- TEXAS COUNCIL OF GOVERNMENTS, 2004 EDITION.
- CONTRACTOR.
- NOT MADE IN THE PLANS.
- SYSTEM OR DIGTESS (800-344-8377).
- CLEARANCES.

- SYSTEMS WITHOUT WRITTEN PERMISSION FORM THE GOVERNING AUTHORITY

ABBREVIATIONS (ALL ABBREVIATIONS SHOWN ARE NOT

vings)

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
СМР	CORRUGATED METAL PIPE
СО	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 OPTIC
FP	FINISHED PAD
FPS	FEET PER SECOND
FL	FLOW LINE
FUT	FUTURE
FW	FIRE WATER
G	GAS
GI	GRATE INLET

	NECESSARILY USED ON E	
GM	GAS METER	R
HDPE	HIGH DENSITY POLYETHYLENE	RC
	PIPE	RC
HDWL	HEADWALL	RC
HMAC	HOT MIX ASPHALTIC CONCRETE	RC
HORIZ	HORIZONTAL	
HP	HIGH POINT	RE
HVAC	HEATING, VENTILATION AND	REI
	AIR CONDITIONING	RL
IRR	IRRIGATION	RO
JB	JUNCTION BOX	RT
JT	JOINT	SF
LF	LINEAR FEET	SD
LP	LOW POINT	SQ
LT	LEFT	SS
MH	MANHOLE	STA
N/A	NOT APPLICABLE	SW
NG	NATURAL GROUND	SY
Р	PAVEMENT ELEVATION	Т
PC	POINT OF CURVATURE	TC
PCC	POINT OF COMPOUND CURVATURE	TDI
PGL	PAVEMENT GRADE LINE	ΤG
PI	POINT OF INTERSECTION	TM
PIV	POST INDICATOR VALVE	TO
PL	PROPERTY LINE	TO
PP	POWER POLE	TP
PRC	POINT OF REVERSE CURVATURE	TPI
PR	PROPOSED	TW
PT		TYF
PUB PVC	PUBLIC POLYVINYL CHLORIDE PIPE	UG
pvc pvmt		VC W
PVIVII PVT	PRIVATE	۷۷ W۱
OCEW		V V V
OCEVV	OVERHEAD ELECTRIC	

/INGS)		
:B :I :P :CP	RADIUS REINFORCED CONCRETE BOX RECESSED CURB INLET REINFORCED CONCRETE PIPE REINFORCED CONCRETE CYLINDRICAL PIPE RECESSED		MONUMENT FOUND MONUMENT SET P.K. NAIL FOUND P.K. NAIL SET
NF	REINFORCED RIDGE LINE		MAG NAIL FOUND
W	RIGHT OF WALL RIGHT	A	mag nail set Found X mark
	SQUARE FEET	×	SET X MARK
	STORM DRAIN SQUARE	Â	R.R. SPIKE FOUND
	SANITARY SEWER		r.r. spike set benchmark
4 /	STATION SIDEWALK	Ť	CONC. R/W MARKE
	SQUARE YARD	(R)	RECORD DATA
		(M)	MEASURED DATA
UCT	TOP OF CURB TOP OF DUCT		CALCULATED DATA
Н	Top of ground Telephone Manhole	R/W BSL	right of way back set line
В	TOP OF BANK	RCP	REINFORCED CONC
S	TOP OF SLOPE TOP OF PAVEMENT	PVC	CORRUGATED META PLASTIC PIPE
PE '	TOP OF PIPE TOP OF WALL	AGL	METAL ABOVE GROUND LEY
SE SP	TYPICAL UNDERGROUND ELECTRIC VITRIFIED CLAY PIPE	2	FOOTPRINT DECIDUOUS TREE
	WATER	L/S	LANDSCAPING CONIFER TREE
/	WATER VALVE		

GENERAL CONSTRUCTION NOTES

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.

9. BONDS: PERFORMANCE, PAYMENT AND MAINTENANCE BONDS WILL BE REQUIRED FROM THE CONTRACTOR FOR ALL WORK CONSIDERED BEING "PUBLIC" IMPROVEMENTS. BONDS SHALL BE PAID FOR BY THE CONTRACTOR.

10. VENDOR'S CERTIFICATION: ALL MATERIALS USED IN CONSTRUCTION SHALL HAVE 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 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

11. TESTING: THE TESTING AND CONTROL OF ALL MATERIALS USED IN THE WORK SHALL BE DONE BY AN INDEPENDENT

12. INSPECTION: INSPECTION OF ALL 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

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 PERFORM 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 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

16. EXISTING STRUCTURES: THE PLANS SHOW THE LOCATION OF ALL KNOWN SURFACE AND SUBSURFACE STRUCTURES, HOWEVER, THE TOWN OF ADDISON AND ENGINEER ASSUME NO RESPONSIBILITY FOR FAILURE TO SHOW ANY OR ALL OF THESE STRUCTURES IN 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 TO REQUIRE CHANGES IN THE LINES OR GRADES, OR REQUIRE THE CONSTRUCTION OF SPECIAL WORK, FOR WHICH PROVISIONS ARE

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 OPERATION BEING PERFORMED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT TEXAS ONE CALL

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

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 ANY 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 AND 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

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, OIL 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 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 LATEST VERSION OF "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 CONTACT AMOUNT.
- e. ALL TRAFFIC CONTROL DEVICES USED DURING NIGHTTIME SHALL BE REFLECTORIZED, ILLUMINATED FROM WITHIN OR EXTERNALLY ILLUMINATED.
- d. THE CONTRACTOR SHALL NOT REMOVE ANY REGULATORY SIGN, INSTRUCTIONAL SIGN, WARNING SIGN, STREET NAME SIGN OR ANY SIGNAL, WHICH CURRENTLY EXIST, WITHOUT THE CONSENT OF THE GOVERNING AUTHORITIES.
- e. THE CONTRACTOR SHALL MAINTAIN AND REPLACE WHERE NECESSARY ALL SIGNS, LIGHTS, MARKINGS AND TEMPORARY PAVEMENT THROUGHOUT THE CONSTRUCTION PERIOD.
- f. 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.

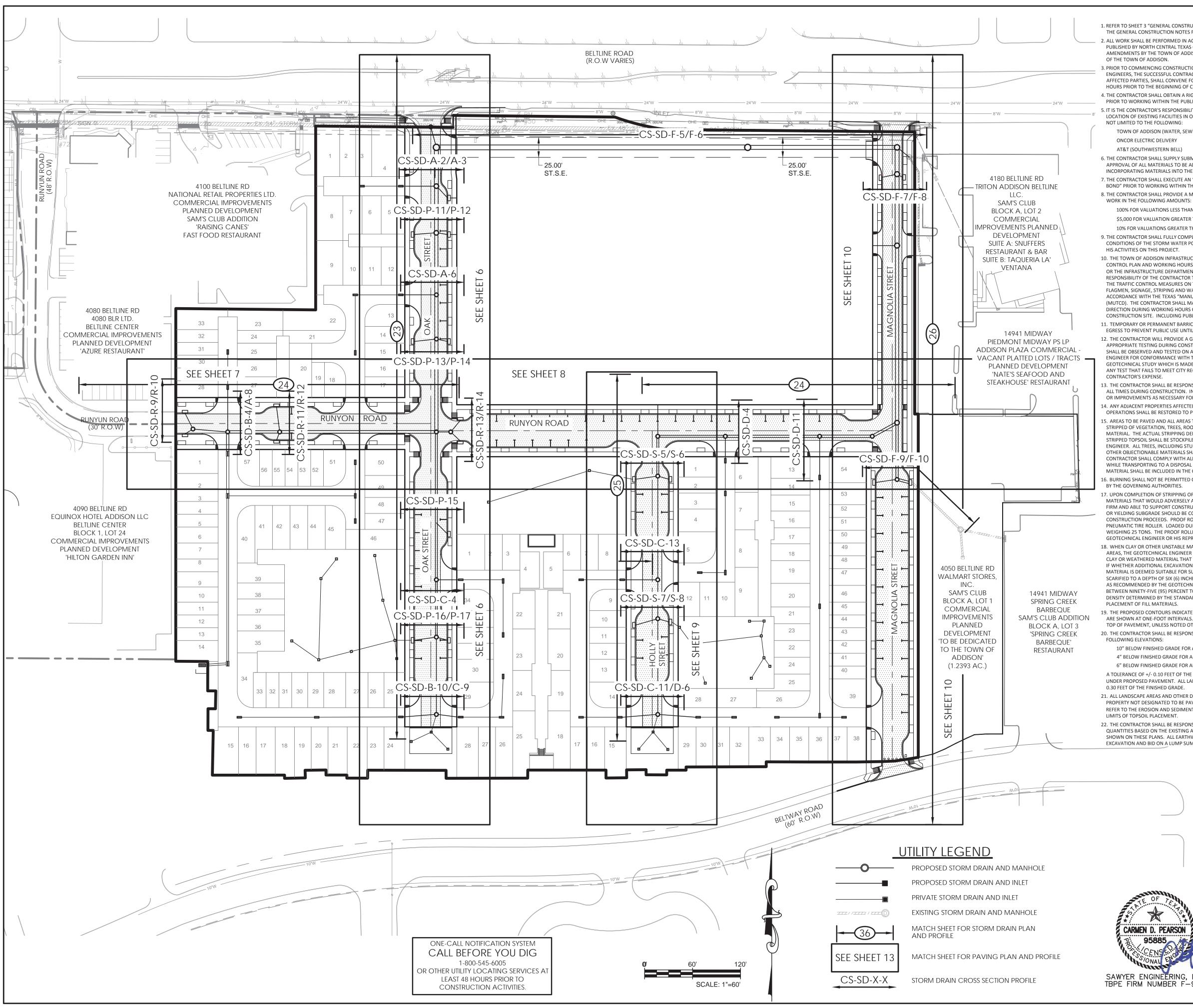
24. ACCESS ROUTES, STAGING, AREAS AND STORAGE AREAS: ALL PRIVATE HAUL ROADS AND ACCESS ROUTES AND THE LOCATION OF ALL STAGING AREAS AND STORAGE AREAS SHALL BE SUBJECT TO THE APPROVAL OF THE TOWN OF ADDISON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND REPAIRING ALL ROADS AND OTHER FACILITIES 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.

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MONUMENT FOUND MONUMENT SET P.K. NAIL FOUND P.K. NAIL SET MAG NAIL SET FOUND X MARK	 ♦ ● >	SQUARE METAL LID — FUEL TANK LID FLAG POLE UNKNOWN MANHOLE FROZEN MANHOLE UNKNOWN VAULT UNKNOWN VAULT METAL		- WATER LINE WATER MANHOLE WATER VALVE WATER METER HYDRANT BACK FLOW PREVENTOR FIRE DEPARTMENT CONNECTION	D SI CB	CLEAN OUT - STORM DRAIN LINE STORM DRAIN MANHOLE STORM INLET CATCH BASIN		TRAFFIC POLE TRAFFIC SIGNAL TRAFFIC MANHOLE TRAFFIC SIGNAL BOX TRAFFIC VAULT STOP SIGN
SET X MARK R.R. SPIKE FOUND R.R. SPIKE SET BENCHMARK CONC. R/W MARKER RECORD DATA MEASURED DATA CALCULATED DATA CALCULATED DATA RIGHT OF WAY BACK SET LINE REINFORCED CONC PIPE P CORRUGATED METAL PIPE		UNKNOWN VALVE MAIL BOX BOLLARD BORE HOLE MONITORING WELL POWERPOLE GUY WIRE LIGHT POLE GROUND LIGHT STREET LIGHT POLE ELEC. TRANSFORMER AIR CONDITIONER		FIRE PROTECTION VALVE HOSE BIBB CONTROL VALVE IRRIGATION CONTROL VALVE RECLAMED WATER VALVE WATER VAULT GAS VALVE GAS METER UNDERGROUND GAS MARKER GAS PEDESTAL GAS MANHOLE	П П П П П П П Т Р Т Р Т Р Т Р Т Р Т Р Т	CURB INLET PAY PHONE TELEPHONE BOX TELEPHONE PEDESTAL TELEPHONE MANHOLE TELEPHONE POLE - TELEPHONE LINE OVERHEAD TELEPHONE UNDERGROUND TELEPHONE MARKER CABLE TELEVISION FIBER OPTIC CABLE OVERHEAD CABLE CABLE BOX	¶	SIGN – GUARD RAIL – FENCE
C PLASTIC PIPE METAL ABOVE GROUND LEVEL FOOTPRINT DECIDUOUS TREE LANDSCAPING CONIFER TREE	O/HE O/HE E E E E E E E E P	BURIED ELECTRIC OVERHEAD ELECTRIC ELECTRIC MANHOLE ELECTRIC METER ELECTRIC BOX GENERATOR ELECTRICAL VAULT ELECTRICAL PEDESTAL	- G PPT UO	 GAS LINE PROPANE TANK UNDERGROUND OIL MARKER SAN. SEWER LINE SEWER MANHOLE GREASE TRAP 		CABLE PEDESTAL UNDERGROUND CABLE MARKER TELECOMMUNICATIONS MANHOLE TELECOMMUNICATIONS PEDESTAL TRAFFIC POLE		



- 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, MARKERS AND LIGHTS TO PROTECT 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 THESE SERVICES 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 OF 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 OVER NIGHT 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 AS SOON AS POSSIBLE 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 TO OF 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
- 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 BR REPAIRED SATISFACTORILY, IT SHALL BE REMOVED FROM THE WORK SITE. WORK DONE BEYOND THE LINE OR NOT IN CONFORMITY WITH THE GRADES SHOWN IN DRAWINGS OR AS PROVIDED, WORK DONE WITHOUT REQUIRED INSPECTION, OR ANY EXTRA UNCLASSIFIED WORK DONE WITHOUT WRITTEN AUTHORITY AND PRIOR AGREEMENT IN WRITING AS TO PRICES, SHALL BE AT THE CONTRACTOR'S RISK, AND WILL 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 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 APPLICABLE LAWS GOVERNING SPILLAGE OF DEBRIS WHILE TRANSPORTING TO A DISPOSAL SITE.
- 37. SEEDING: THE CONTRACTOR SHALL PROVIDE SEEDING, WATERING, FERTILIZATION, 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 CONTRACTORS 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 AND TOWN OF ADDISON BEFORE REQUESTING FINAL PAYMENT.

NO.							
	ADDISON TOWN OF ADDISON DALLAS COUNTY, TEXAS						
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GENER	AL CO	ONSTR	UCTIC	N NOTES, L	egend		
& ABBREVIATIONS							
SAWYER ENGINEERING TBPE: F-9171				1520 OLIVER HOUSTON, TEX (832) 553-	(AS 77007		
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET		
	CDP	JDS	MAY 2017		3		



GRADING & PAVING GENERAL NOTES:

THE GENERAL CONSTRUCTION NOTES FOR THIS PROJECT.

2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH STANDARD SPECIFICATIONS AS PUBLISHED BY NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, AND ANY AND ALL AMENDMENTS BY THE TOWN OF ADDISON, AS WELL AS STANDARD CONSTRUCTION DETAILS 24. THE CONTRACTOR SHALL VERIFY THE ELEVATION, CONFIGURATION, AND ANGULATION OF OF THE TOWN OF ADDISON.

3. PRIOR TO COMMENCING CONSTRUCTION, THE TOWN OF ADDISON, THE CONSULTING ENGINEERS. THE SUCCESSFUL CONTRACTOR. UTILITY COMPANIES. AND ANY OTHER AFFECTED PARTIES, SHALL CONVENE FOR A PRE-CONSTRUCTION CONFERENCE AT LEAST 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.

4. THE CONTRACTOR SHALL OBTAIN A RIGHT-OF-WAY PERMIT FROM THE TOWN OF ADDISON PRIOR TO WORKING WITHIN THE PUBLIC RIGHT-OF-WAY.

5. 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 FOLLOWING:

VERIZON/MCI

TOWN OF ADDISON (WATER, SEWER, SIGNALS) ATMOS ENERGY (GAS)

ONCOR ELECTRIC DELIVERY

AT&T (SOUTHWESTERN BELL) TIME-WARNER CABLE 6. THE CONTRACTOR SHALL SUPPLY SUBMITTALS TO THE ENGINEER (SIX SETS EACH), FOR

APPROVAL OF ALL MATERIALS TO BE ADDED TO THE PUBLIC INFRASTRUCTURE, PRIOR TO INCORPORATING MATERIALS INTO THE JOB 7. THE CONTRACTOR SHALL EXECUTE AN "EXCAVATION PERFORMANCE AND MAINTENANCE

BOND" PRIOR TO WORKING WITHIN THE RIGHT-OF-WAY. 8. THE CONTRACTOR SHALL PROVIDE A MAINTENANCE BOND FOR PUBLIC INFRASTRUCTURE

100% FOR VALUATIONS LESS THAN OR EQUAL TO \$5,000.

\$5,000 FOR VALUATION GREATER THAN \$5,000 AND LESS THAN \$50,000.

10% FOR VALUATIONS GREATER THAN \$50,000. 9. 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.

- 10. THE TOWN OF ADDISON INFRASTRUCTURE DEPARTMENT WILL APPROVE THE TRAFFIC CONTROL PLAN AND WORKING HOURS. CONTACT THE CITY ENGINEER AT (972) 450-2849 OR THE INFRASTRUCTURE DEPARTMENT INSPECTOR AT (972) 450-2847. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IMPLEMENT, AND SUPPLEMENT AS NECESSARY. THE TRAFFIC CONTROL MEASURES ON THIS PROJECT. INCLUDING PROVIDING ADEQUATE FLAGMEN, SIGNAGE, STRIPING AND WARNING DEVICES, ETC., DURING CONSTRUCTION IN ACCORDANCE WITH THE TEXAS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE LANE OF TRAFFIC IN EACH DIRECTION DURING WORKING HOURS OR PROVIDE AN ALL-WEATHER DETOUR AROUND THE
- CONSTRUCTION SITE. INCLUDING PUBLIC NOTIFICATION AND SIGNING. 11. TEMPORARY OR PERMANENT BARRICADES SHALL REMAIN AT ALL POINTS OF INGRESS OR
- EGRESS TO PREVENT PUBLIC USE UNTIL THE WORK RECEIVES FINAL ACCEPTANCE. 12. THE CONTRACTOR WILL PROVIDE A GEOTECHNICAL LABORATORY TO PERFORM APPROPRIATE TESTING DURING CONSTRUCTION ACTIVITIES. ALL EARTHWORK OPERATIONS 33. ALL CURB SHOWN IS TO BE SIX (6) INCHES HIGH SHALL BE OBSERVED AND TESTED ON A CONTINUING BASIS BY THE GEOTECHNICAL ENGINEER FOR CONFORMANCE WITH THE REOLUREMENTS 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 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE AT ALL TIMES DURING CONSTRUCTION. INCLUDING PROVIDING ALL TEMPORARY STRUCTURES
- OR IMPROVEMENTS AS NECESSARY FOR THE SAFETY OF THE PUBLIC. 14. ANY ADJACENT PROPERTIES AFFECTED BY THE CONTRACTOR'S CONSTRUCTION
- OPERATIONS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS, OR BETTER. 5. 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 ACTUAL STRIPPING DEPTH SHALL BE BASED ON FIELD OPERATIONS. 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 MATERIALS SHALL BE REMOVED AND DISPOSED OFF-SITE. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS GOVERNING SPILLAGE O DEBRIS WHILE TRANSPORTING TO A DISPOSAL SITE. ALL COST ASSOCIATED WITH DISPOSAL OF MATERIAL SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
- I.6. BURNING SHALL NOT BE PERMITTED ON THE PROJECT SITE UNLESS APPROVED IN WRITING BY THE GOVERNING AUTHORITIES.
- 17. UPON COMPLETION OF STRIPPING OPERATIONS, AND PRIOR TO PLACEMENT OF ANY FILL MATERIALS THAT WOULD ADVERSELY AFFECT THE 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 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. 18. WHEN CLAY OR OTHER UNSTABLE MATERIAL IS PRESENT IN AREAS OF PROPOSED PAVED AREAS, THE GEOTECHNICAL ENGINEER SHALL OBSERVE THE STABILITY OF ANY EXISTING
- IF 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 NECESSAR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER, AND THEN RECOMPACTED TO BETWEEN NINETY-FIVE (95) PERCENT TO ONE HUNDRED (100) PERCENT OF THE OPTIMUM DENSITY DETERMINED BY THE STANDARD PROCTOR TEST. ASTM C-698 PRIOR TO PLACEMENT OF FILL MATERIALS
- 19. 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.
- 20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MASS GRADING OF THE SITE TO THE
- 10" BELOW FINISHED GRADE FOR ALL STREET PAVEMENT AREAS.
- 4" BELOW FINISHED GRADE FOR ALL SIDEWALK PAVEMENT AREAS
- 6" BELOW FINISHED GRADE FOR ALL LANDSCAPED AREAS
- A TOLERANCE OF +/- 0.10 FEET OF THE FINISHED GRADE WILL BE ALLOWED FOR ALL AREAS UNDER PROPOSED PAVEMENT. ALL LANDSCAPED AREAS ARE TO BE GRADED WITHIN +/-0.30 FEET OF THE FINISHED GRADE.

21. ALL LANDSCAPE AREAS AND OTHER DISTURBED AREAS WITHIN THE LIMITS OF THE PROPERTY NOT DESIGNATED TO BE PAVED SHALL RECEIVE SIX (6) INCHES OF TOPSOIL.

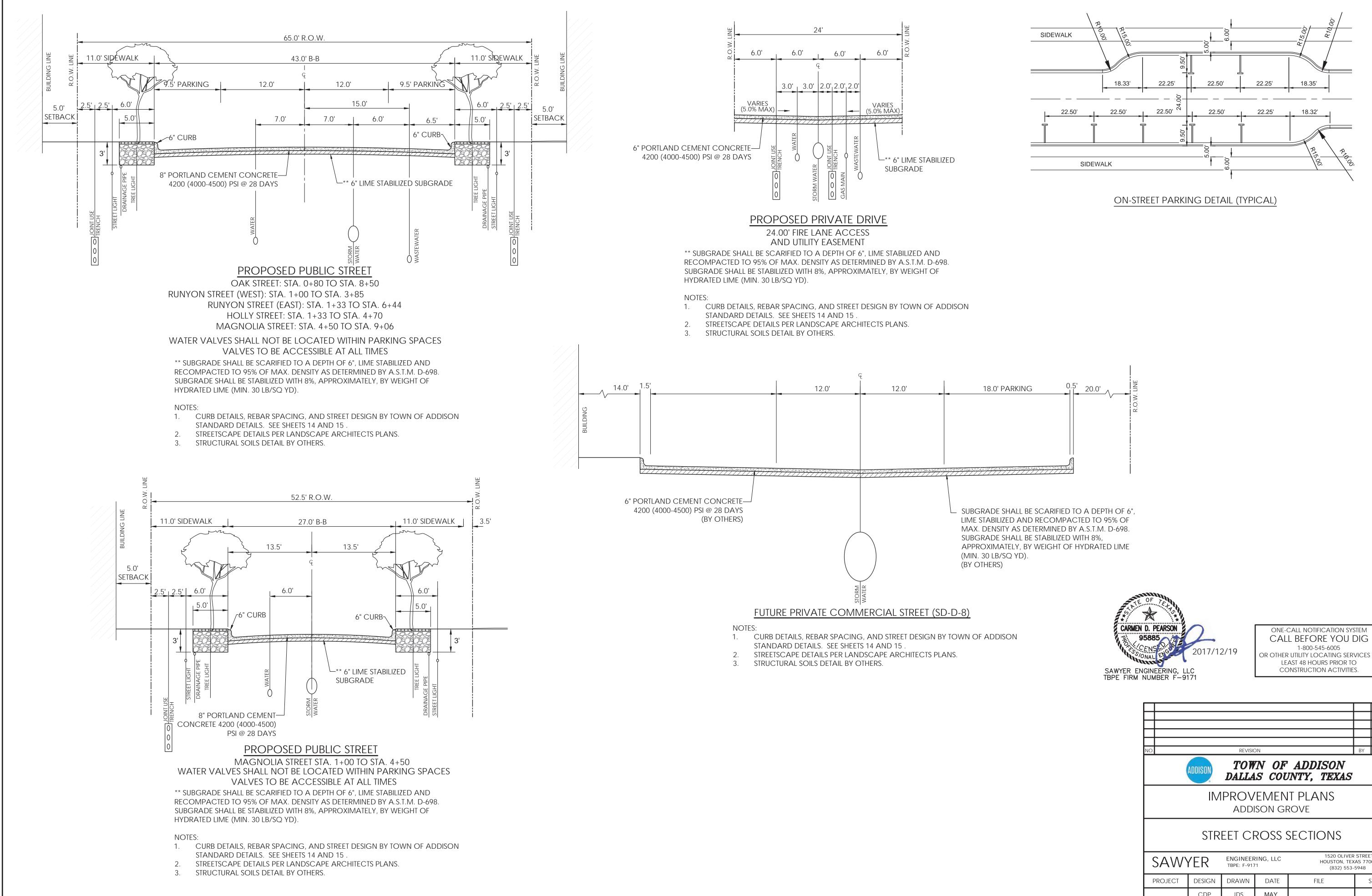
REFER TO THE EROSION AND SEDIMENT CONTROL PLANS AND/OR LANDSCAPE PLANS FOR LIMITS OF TOPSOIL PLACEMENT. 22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALCULATING THE EARTHWORK

QUANTITIES BASED ON THE EXISTING AND PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN ON THESE PLANS. ALL EARTHWORK SHALL BE CONSIDERED UNCLASSIFIED EXCAVATION AND BID ON A LUMP SUM BASIS, UNLESS NOTED OTHERWISE.

- 1. REFER TO SHEET 3 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR 23. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS FOR THE SUPPORT AND PROTECTION OF ALL UTILITY POLES, FENCE, 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.
 - EXISTING PAVEMENT PRIOR TO CONSTRUCTION OF TIE-IN MATERIALS. NO EXPOSED REBAR DUE TO FULL DEPTH SAWING REQUIREMENTS. USE EXPANSION JOINT OR STREET HEADER 25. NO PERSON SHALL OPEN. TURN OFF. INTERFERE WITH, ATTACH ANY HOSE TO, OR TAP ANY WATER MAIN BELONGING TO THE TOWN OF ADDISON. CONTACT TOA INFRASTRUCTURE
 - DEPARTMENT FOR ALL VALVE OPERATIONS. 26. ALL EXISTING AND PROPOSED IMPROVEMENTS (MANHOLE RIMS, CLEAN-OUTS, FIRE HYDRANTS. VALVE BOXES. WATER METER AND VAULTS. ETC.) SHALL BE ADJUSTED TO FINAL FINISHED GRADE BY THE CONTRACTOR AT THE TIME OF PAVING AND/OR PRIOR TO FINAL ACCEPTANCE.
 - 27. PREPARATION 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 AND UNDERGROUND UTILITIES HAS BEEN COMPLETED AND VERIFIED TO MEET THE SPECIFICATIONS AND AUTHORIZATION TO PROCEED HAS BEEN RECEIVED FROM THE INSPECTOR.
 - 28. ALL FILL UNDER PAVEMENT AREAS SHALL BE COMPACTED TO A DENSITY OF AT LEAST NINETY-FIVE (95) PERCENT STANDARD PROCTOR AS PER ASTM D698 AT OR ABOVE OPTIMUM MOISTURE CONTENT (+3%). LIFTS SHALL BE AS SPECIFIED IN THE GEOTECHNICAL REPORT AND AS APPROVED BY THE TOWN OF ADDISON. ALL FILL MATERIAL SHALL BE TESTED AS INSTALLED AND CERTIFIED BY AN APPROVED SOILS LABORATORY.
 - 29. THE SUBGRADE SHALL BE PROOF-ROLLED WITH HEAVY PNEUMATIC EQUIPMENT. ANY SOFT OR PUMPING AREAS SHALL BE EXCAVATED TO FIRM SUBGRADE AND BACKFILLED AND RE-COMPACTED IN CONFORMANCE WITH THE GEOTECHNICAL REPORT. PAVEMENT SUBGRADE SHOULD NOT BE ALLOWED TO RETAIN WATER. WET MATERIAL SHALL BE REMOVED TO DRY, SOUND MATERIAL AND APPROPRIATE DENSITY ACHIEVED PRIOR TO PAVING OPERATIONS.
 - 30. CONCRETE SHOULD BE PORTLAND CEMENT CONCRETE. CONFORMING TO THE REQUIREMENTS OF TXDOT ITEM 421, PORTLAND CEMENT CONCRETE CLASS "P", 4200 PSI.
 - 31 HYDRATED LIME (IF REQUIRED) SHALL MEET REQUIREMENTS OF TYDOT ITEM 260, LIME TREATMENT AS SUBGRADE. LIME SHALL BE APPLIED AT THE RATE AND THICKNESS AS RECOMMENDED IN THE GEOTECHNICAL REPORT, THOROUGHLY MIXED AND BLENDED WITH THE SUBGRADE AND UNIFORMLY COMPACTED TO A MINIMUM OF 95-100 PERCENT OF STANDARD PROCTOR (ASTM D698) DETERMINED BY THAT TEST. LIME STABILIZATION SHALL EXTEND ONE (1) FOOT OUTSIDE THE LIMITS OF THE PAVED AREA. IT SHOULD BE
 - PROTECTED AND MAINTAINED IN A MOIST CONDITION UNTIL THE PAVEMENT IS PLACED. 32. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE HIS WORK WITH TRENCHING OPERATIONS FOR OTHER UTILITIES INCLUDING GAS, TELEPHONE, AND ELECTRIC SERVICES, LANDSCAPE IRRIGATION CONDUITS, LIGHTING CONDUIT, STREETSCAPE IMPROVEMENTS, FTC AND SHALL PROVIDE BLOCKOLITS AND/OR FINAL ADJUSTMENT TO FINISHED GRADE FOR ALL IMPROVEMENTS, EXISTING AND PROPOSED, WITHIN THE LIMITS OF THE PAVING

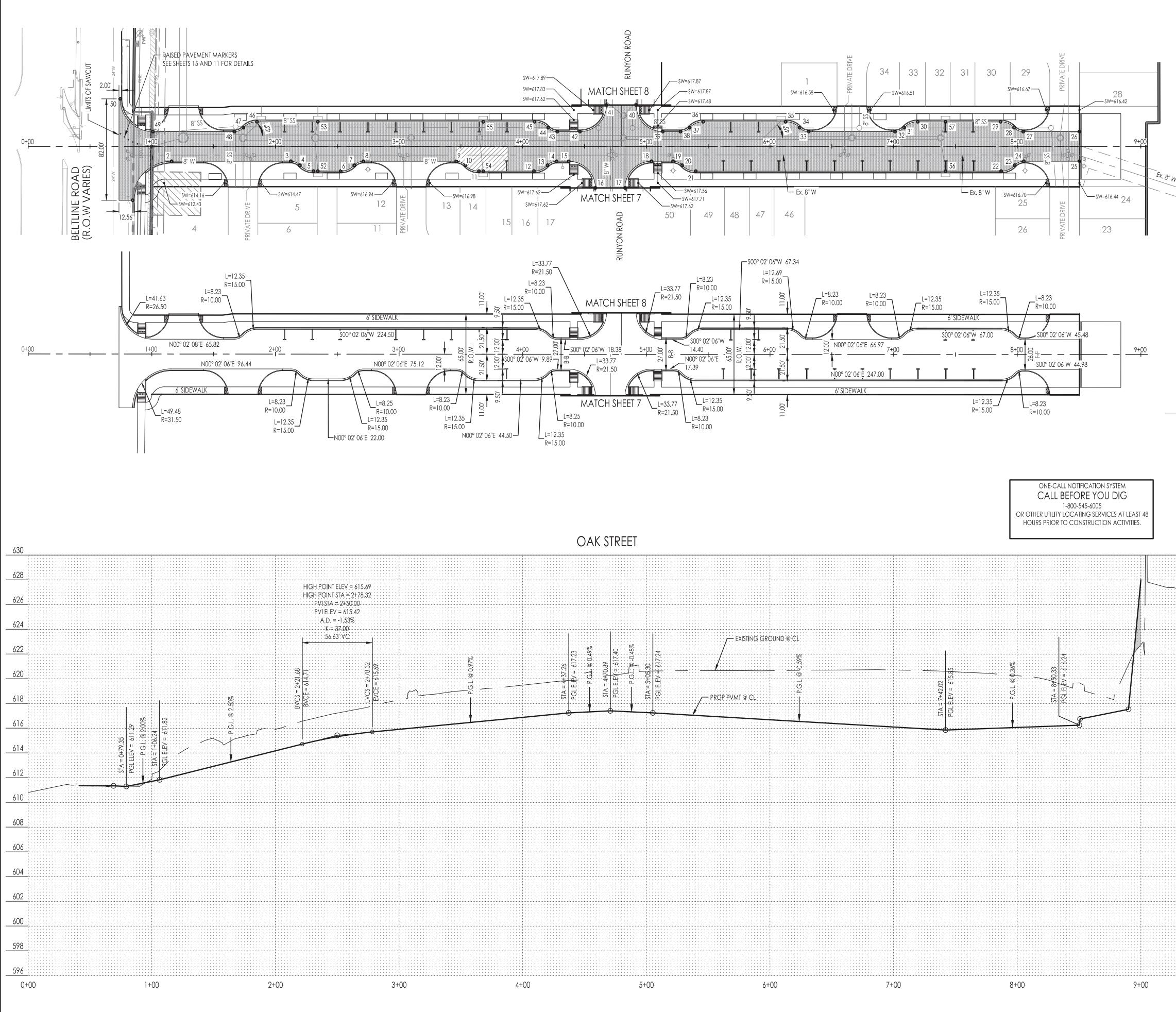
 - 34. EXPANSION JOINT MATERIAL SHALL EXTEND COMPLETELY THROUGH THE CURB. 35. ALL REINFORCING BARS SHALL BE GRADE 40 KSI DEFORMED REINFORCING STEEL. SIZE AND SPACING SHALL BE IN ACCORDANCE WITH THE DETAILS. WHERE BARS ARE SPLICED, A
 - 30" OR 30 DIAMETER LAP SHALL BE USED. 36. ALL REINFORCING STEEL AND DOWEL BARS IN PAVEMENT SHALL BE SUPPORTED AND MAINTAINED AT THE CORRECT CLEARANCES BY THE USE OF BAR CHAIRS OR OTHER
 - APPROVED SUPPORTS. 37. 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. COPIES OF THE TEST RESULTS SHALL BE FURNISHED TO THE CITY. IN THE EVENT PAVING OPERATIONS HAVE NOT BEEN COMMENCED WITHIN THE SEVENTY-TWO (72) HOUR LIMIT, A RETEST SHALL BE REQUIRED AT THE CONTRACTOR'S EXPENSE.
 - 38. CONCRETE SHALL NOT BE PLACED WHEN THE TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT AND FALLING, BUT MAY BE PLACED WHEN THE TEMPERATURE IS ABOVE 35DEGREES AND RISING. THE TEMPERATURE READING SHALL BE TAKEN IN THE SHADE AND AWAY FROM ARTIFICIAL HEAT
 - 39. CONSTRUCTION OF SIDEWALKS, WHEELCHAIRS RAMPS AND ACCESSIBLE ROUTES SHALL BE IN ACCORDANCE WITH THE TEXAS ACCESSIBILITY STANDARDS (TAS) AND/OR THE AMERICAN DISABILITY ACT (ADA) OR PROWAG, JULY 26, 2011. ALL CONCRETE FOR HANDICAP RAMPS SHALL HAVE TRUNCATED DOMES.
 - 40. PAVEMENT MARKINGS SHALL BE PROVIDED IN ACCORDANCE WITH THE TEXAS "UNIFORM TRAFFIC MANUAL FOR PAVEMENT MARKINGS". FIRE LANES SHALL BE STRIPPED IN ACCORDANCE WITH THE TOWN OF ADDISON'S REQUIREMENTS. ALL HANDICAP SYMBOLS. SIGNAGE AND PAVEMENT MARKINGS SHALL COMPLY WITH TAS AND/OR ADA STANDARDS.
 - 41. 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.
- 42. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR REPAIRS TO ALL EXISTING FACILITIES DAMAGED BY HIS ACTIVITIES. CLAY OR WEATHERED MATERIAL THAT IS PRESENT IN THE SUBBASE, AND SHALL DETERMINE 43. THE CONTRACTOR SHALL PROVIDE PAVEMENT JOINTING IN ACCORDANCE WITH THE
 - FOLLOWING REQUIREMENTS:
 - CONCRETE CAN SUPPORT WEIGHT. PROVIDE A NEAT CUT WHICH IS TRUE IN ALIGNMEN
 - 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 AFTER CONCRETE HAS FULLY CURED.
 - F. ODD SHAPED PANELS SHALL BE REINFORCED WITH #3 BARS AT LEAST 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 RATION 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.
 - 44. THE CONTRACTOR SHALL PROVIDE VERIFICATION OF COMPLETION AND COMPLIANCE OF ANY AND ALL REQUIRED TESTS TO THE TOWN OF ADDISON.
 - 45. THE CONTRACTOR SHALL CALL (972) 450-2847 TO REQUEST A FINAL WALK-THROUGH INSPECTION OF THE PUBLIC INFRASTRUCTURE WORK.

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ENGINEERING, LLC	PROJECT	DESIGN	DRAWN	DATE	FILE	S	HEET
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CALL BEFORE YOU DIG OR OTHER UTILITY LOCATING SERVICES AT

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ADDISON TOWN OF ADDISON DALLAS COUNTY, TEXAS						
IMPROVEMENT PLANS Addison grove						
STREET CROSS SECTIONS						
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PROJECT	DESIGN	DRAWN	DATE	FILE	S	HEET
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40'

HORIZ. SCALE: 1"=40' VERT. SCALE: 1"=4'

80'

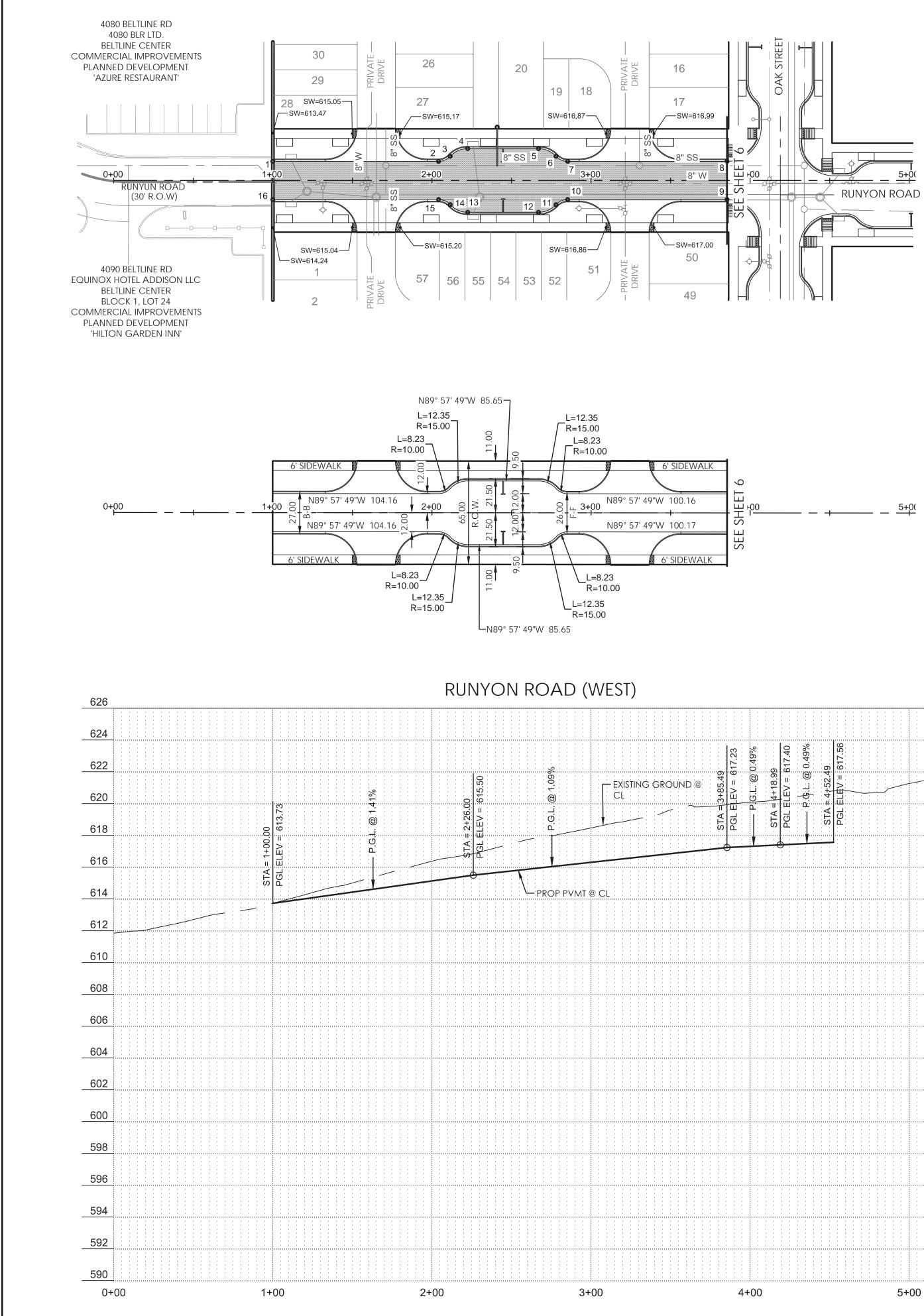
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		_	18	5+04.30	12.0	Rt.	616.9	2025.2
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— — <u>(</u>) — – I	ΕΧΙςτίνις ςανιτ	ARY SEWER AND MANHOLE	21	5+40.02	20.0	Rt.	616.5	
		ART SLIVER AND MANNOLL	22	7+87.02	20.0	Rt.	615.5	
	PROPOSED FIR	E HYDRANT ASSEMBLY	23	7+98.02	15.2	Rt.	615.6	
Ŷ			24	8+05.35 8+50.33	12.0 12.0	Rt. Rt.	615.7 615.9	
	PROPOSED WA AND BOX WITH	TERLINE WITH GATE VALVE	25	8+50.33	12.0	Lt.	615.9	
			27	8+04.85	12.0	Lt.	615.7	1.54
- (RLINE WITH GATE VALVE	28	7+97.51	15.2	Lt.	615.6	
	AND BOX		29	7+86.52	20.0	<mark>L</mark> t.	615.5	3
	PROPOSED STORM		30	7+19.52	20.0	Lt.	615.5	
	WITH MANHOLE AI	ND INLETS	31	7+08.52	15.2	Lt.	615.6	
			32	7+01.19 6+31.35	12.0 12.0	Lt. Lt.	615.8 616.2	
	PROPOSED PRIVAT	e storm sewer	33	6+24.02	12.0	Lt. Lt.	616.2	
_			35	6+12.68	20.0	Lt.	616.1	
	existing storm se	WER AND MANHOLE	36	5+46.02	20.0	Lt.	616.5	
	existing inlet		37	5+35.02	15.2	Lt.	616.7	0
			38	5+27.69	12.0	Lt.	616.8	
	PROPOSED TREE W	ELL	39	5+13.29	12.0	Lt.	616.9	2.33.2
0000000	2'x6' TRUNCATED D	OME PANEL	40	4+91.79 4+67.79	33.5 33.5	Lt. Lt.	617.2 617.2	
	IMITS OF PARABO	LIC PAVEMENT CROWN	41	4+07.79	12.0	Lt.	617.0	
		NDARD PARABOLIC	43	4+27.91	12.0	Lt.	616.8	
	PAVEMENT CROW		44	4+20.58	15.2	Lt.	616.7	'1
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1520 OLIVER STREET HOUSTON, TEXAS 77007 ENGINEERING, LLC TBPE: F-9171 SAWYER (832) 553-5948 PROJECT DESIGN DRAWN DATE SHEET FILE CDP JDS MAY 6 2017

BY DATE

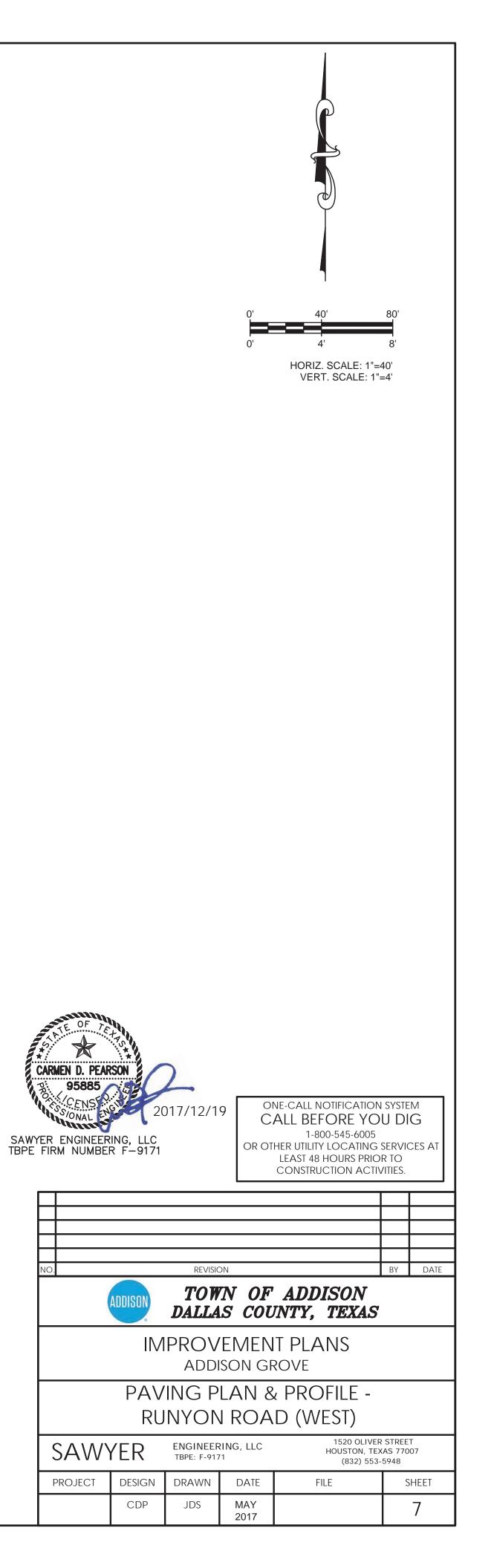


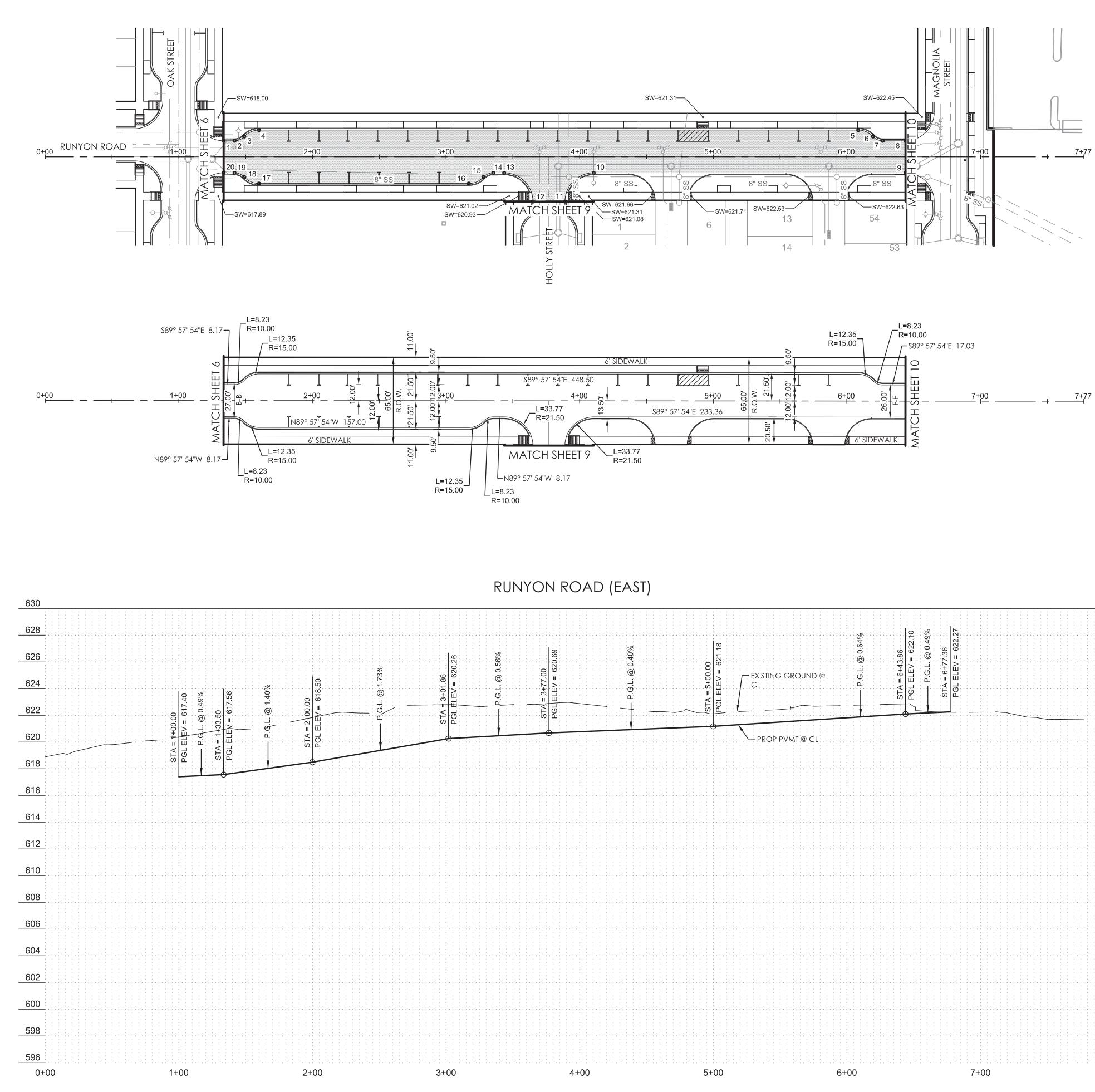
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4	2+22.49	20.0	Lt.	614.97
5	2+66.99	20.0	Lt.	615.47
6	2+77.99	15.2	Lt.	615.70
7	2+85.32	12.0	Lt.	615.86
8	3+85.49	12.0	Lt.	616.95
9	3+85.49	12.0	Rt.	616.95
10	2+85.32	12.0	Rt.	615.86
11	2+77.99	15.2	Rt.	615.70
12	2+66.99	20.0	Rt.	615.47
13	2+22.49	20.0	Rt.	614.97
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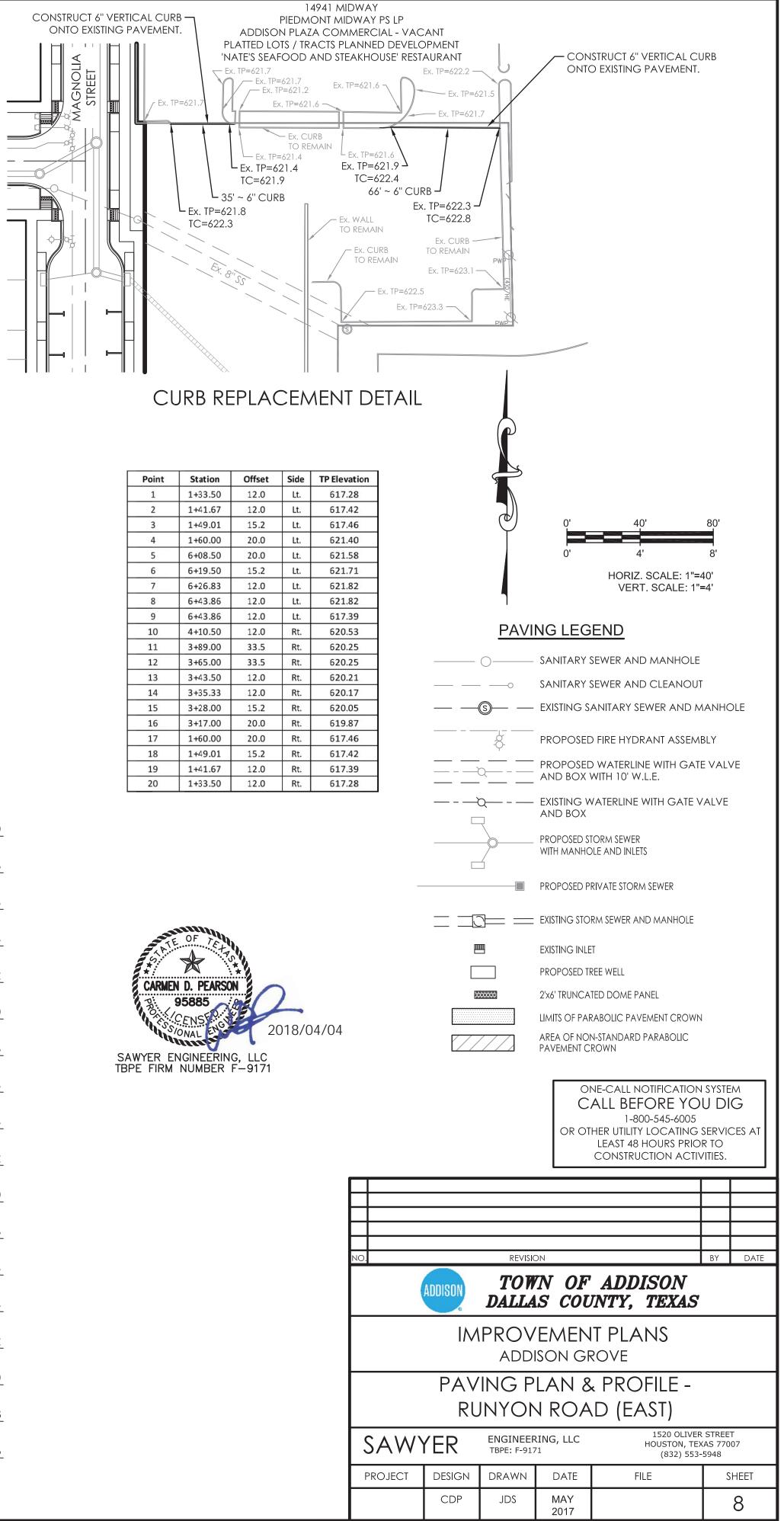
O	SANITARY SEWER AND MANHOLE
o	Sanitary sewer and cleanout
— — <u>S</u> — —	EXISTING SANITARY SEWER AND MANHOLE
	PROPOSED FIRE HYDRANT ASSEMBLY
	Proposed waterline with gate valve and box with 10' w.l.e.
— - —à— - — □	Existing waterline with gate valve and box
	PROPOSED STORM SEWER WITH MANHOLE AND INLETS
	PROPOSED PRIVATE STORM SEWER
0= =	EXISTING STORM SEWER AND MANHOLE
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	PROPOSED TREE WELL
0000000	2'x6' TRUNCATED DOME PANEL
	LIMITS OF PARABOLIC PAVEMENT CROWN
	AREA OF NON-STANDARD PARABOLIC PAVEMENT CROWN

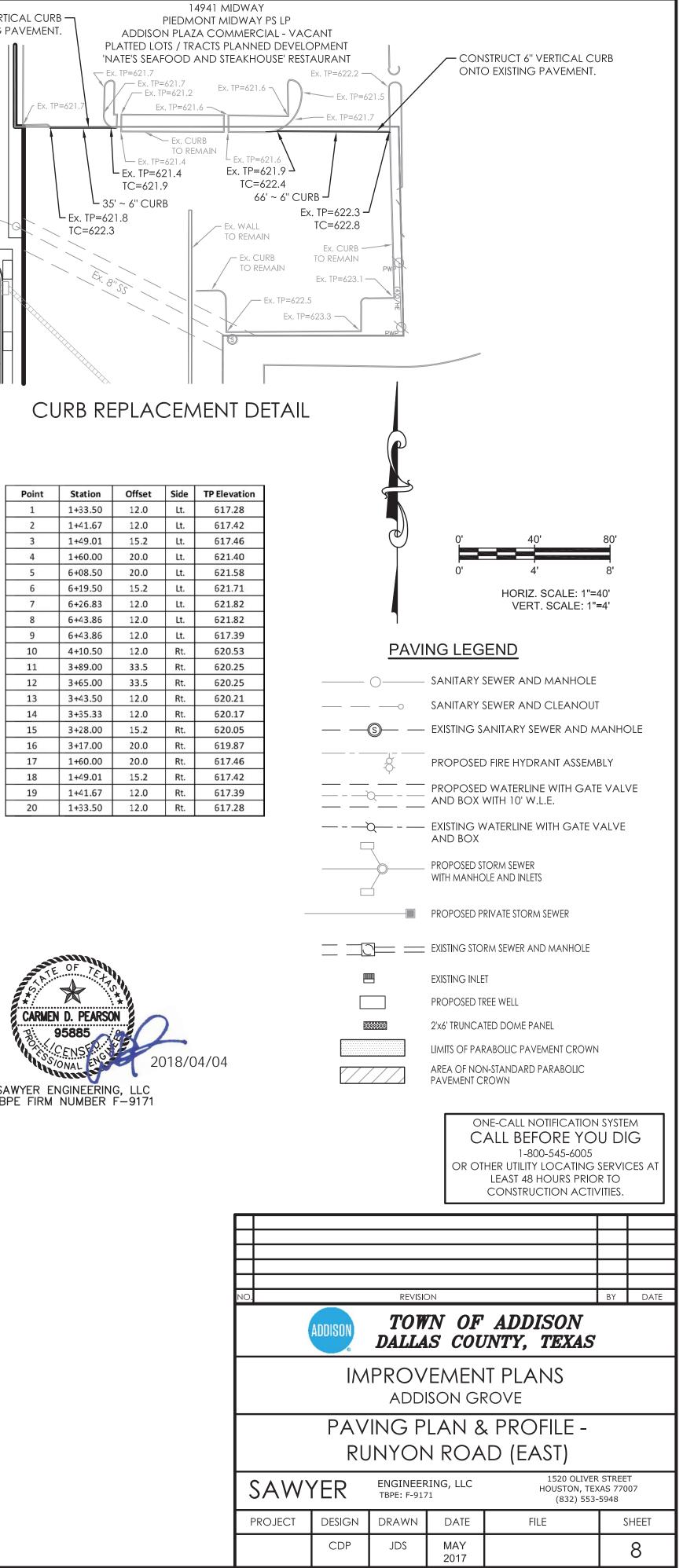
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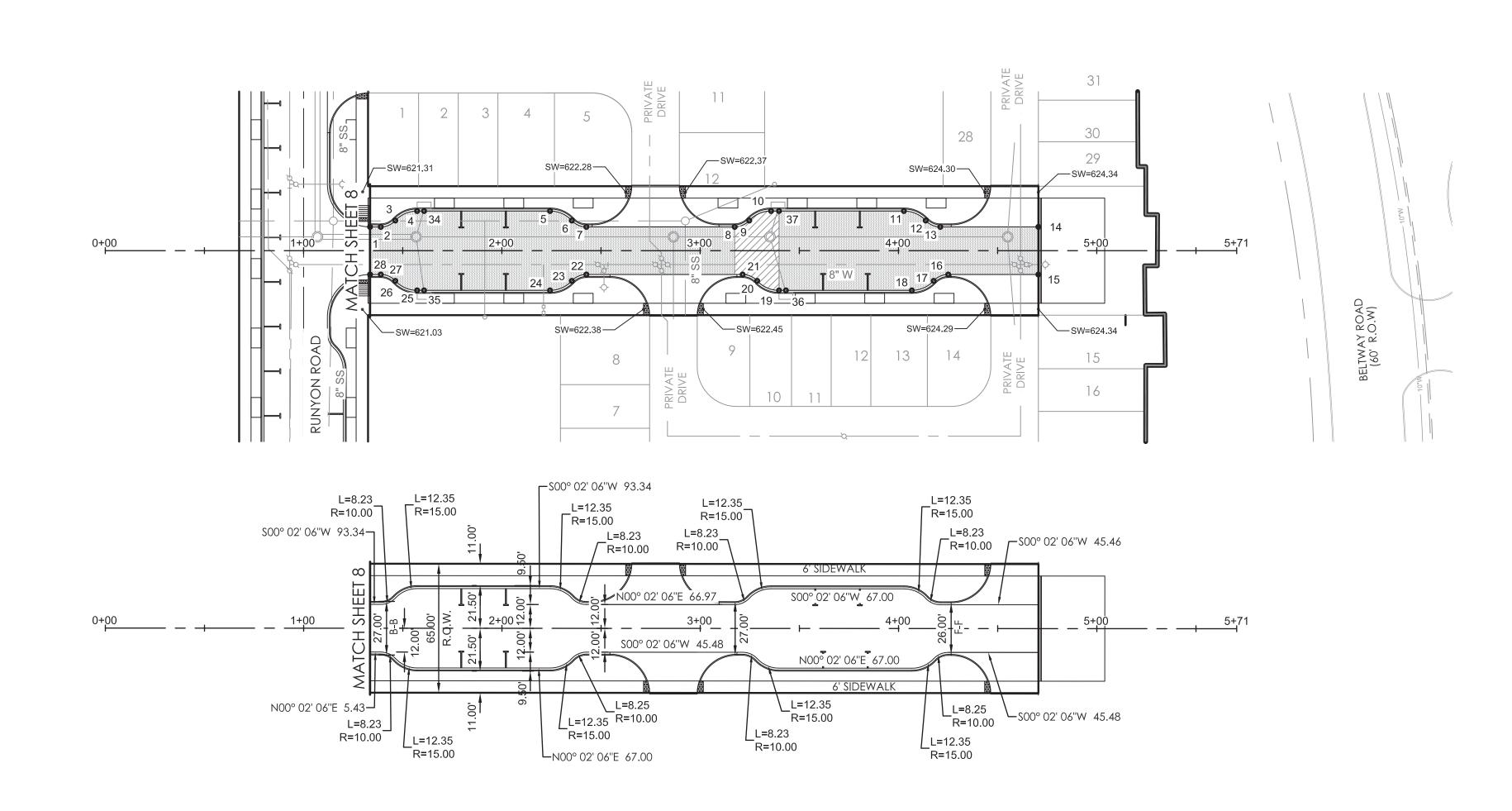




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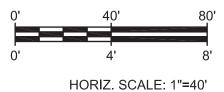
634	 						Н	OLLY S	STREET							 634
632				LOW POIL	NT ELEV = 620. NT STA = 1+56.	48										632
630				PVI S PVI E	STA = 1+70.00 LEV = 620.37 D. = 1.66% < = 37.00								624.00		9	 630
628					61.28' VC					1.21%		4+70.5	ELEV			628
626			= 620.69 @ -0.45%	= 1+39.36 = 620.51		0.74				8		STA =	PGLE	<u> </u>	J	626
624			ELEV = 620.69	8VCS = 1+0 BVCE = 62		EVCS = 2+00. EVCE = 620.7		STING GROL	JND @	0 4						624
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600																600
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Point	Station	Offset	Side	TP Elevation
1	1+33.50	12.00	Lt.	620.25
2	1+38.93	12.00	Lt.	620.23
3	1+46.26	15.20	Lt.	620.13
4	1+57.26	20.00	Lt.	620.00
5	2+24.26	20.00	Lt.	620.55
6	2+35.26	15.20	Lt.	620.80
7	2+42.59	12.00	Lt.	620.97
8	3+17.40	12.00	Lt.	621.87
9	3+24.73	15.20	Lt.	621.90
10	3+35.73	20.00	Lt.	621.96
11	4+02.73	20.00	Lt.	622.71
12	4+13.73	15.20	Lt.	622.95
13	4+21.06	12.00	Lt.	623.12
14	4+70.54	12.00	Lt.	623.73
15	4+70.54	12.00	Rt.	623.73
16	4+25.08	12.00	Rt.	623.17
17	4+17.73	15.20	Rt.	623.00
18	4+06.73	20.00	Rt.	622.76
19	3+39.73	20.00	Rt.	621.97
20	3+28.73	15.20	Rt.	621.92
21	3+21.40	12.00	Rt.	621.89
22	2+42.61	12.00	Rt.	620.97
23	2+35.26	15.20	Rt.	620.80
24	2+24.26	20.00	Rt.	620.55
25	1+57.26	20.00	Rt.	620.00
26	1+46.26	15.20	Rt.	620.13
27	1+38.93	15.20	Rt.	620.23
28	1+33.50	12.00	Rt.	620. <mark>2</mark> 5
34	1+60.76	20.00	Lt.	620
35	1+60.76	20.00	Rt.	620
36	3+43.23	20.00	Rt.	621.97
37	3+39.73	20.00	Lt.	621.96

PAVING LEGEND

Sanitary sewer and manhole
SANITARY SEWER AND CLEANOUT
EXISTING SANITARY SEWER AND MA
PROPOSED FIRE HYDRANT ASSEMBL
PROPOSED WATERLINE WITH GATE AND BOX WITH 10' W.L.E.
EXISTING WATERLINE WITH GATE VA AND BOX
PROPOSED STORM SEWER WITH MANHOLE AND INLETS
PROPOSED PRIVATE STORM SEWER
EXISTING STORM SEWER AND MANHOLE
EXISTING INLET
PROPOSED TREE WELL
2'x6' TRUNCATED DOME PANEL
LIMITS OF PARABOLIC PAVEMENT CROWN
AREA OF NON-STANDARD PARABOLIC PAVEMENT CROWN





HORIZ. SCALE: 1"=40' VERT. SCALE: 1"=4'

MANHOLE

1BLY

E VALVE

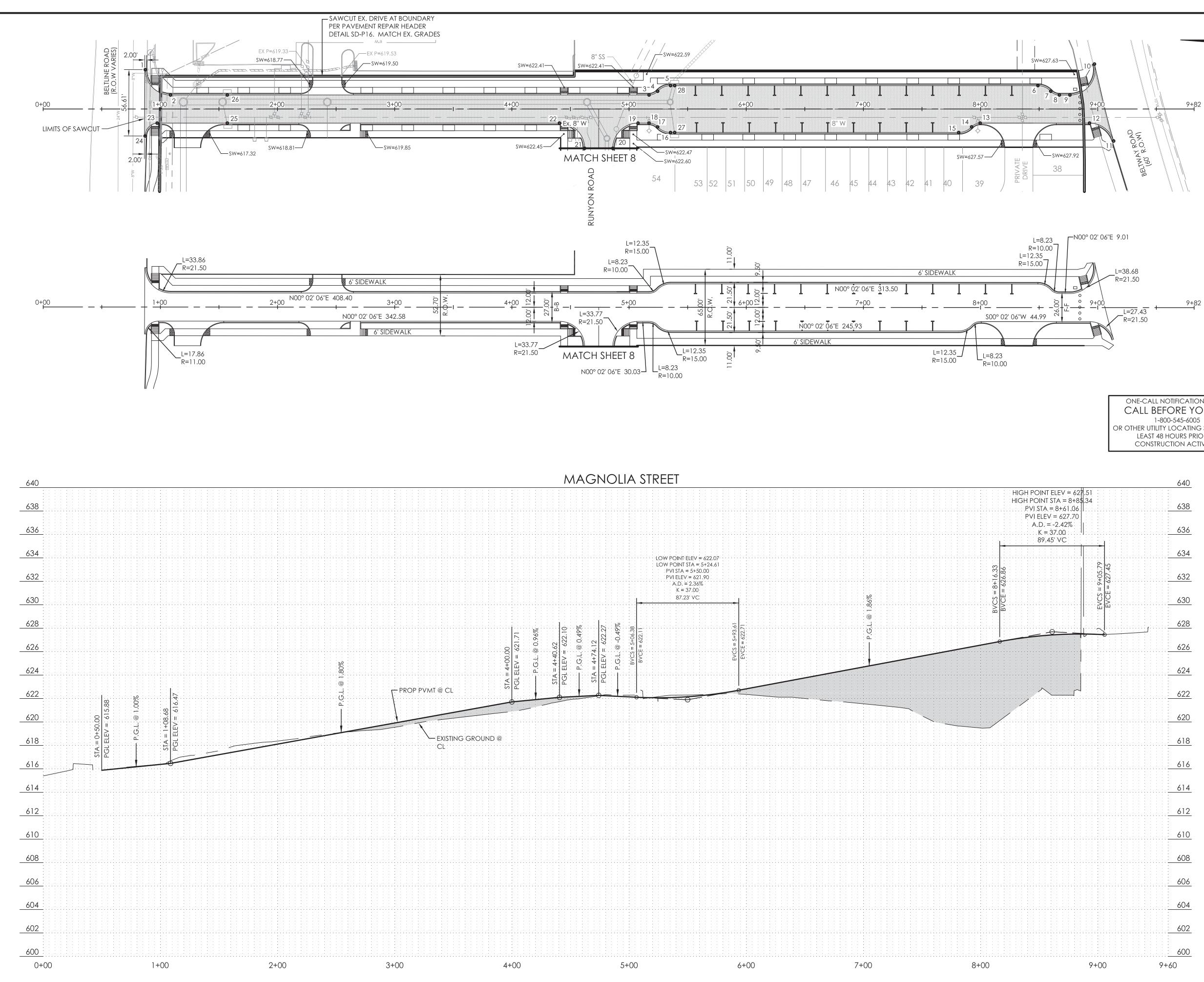
VALVE



SAWYER ENGINEERING, LLC TBPE FIRM NUMBER F—9171

ONE-CALL NOTIFICATION SYSTEM 1-800-545-6005 OR OTHER UTILITY LOCATING SERVICES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES.

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NO.		REVISIO	DN			ΒY	DATE						
	ADDISON		N OF S COL		ISON TEXAS								
	IMPROVEMENT PLANS ADDISON GROVE												
	PAV		LAN 8 _LY STI		FILE -								
SAW	YER	ENGINEER TBPE: F-917			1520 OLIVER HOUSTON, TEX (832) 553-	AS 770	-						
PROJECT	ILE	S	HEET										
	CDP	JDS	MAY 2017				9						

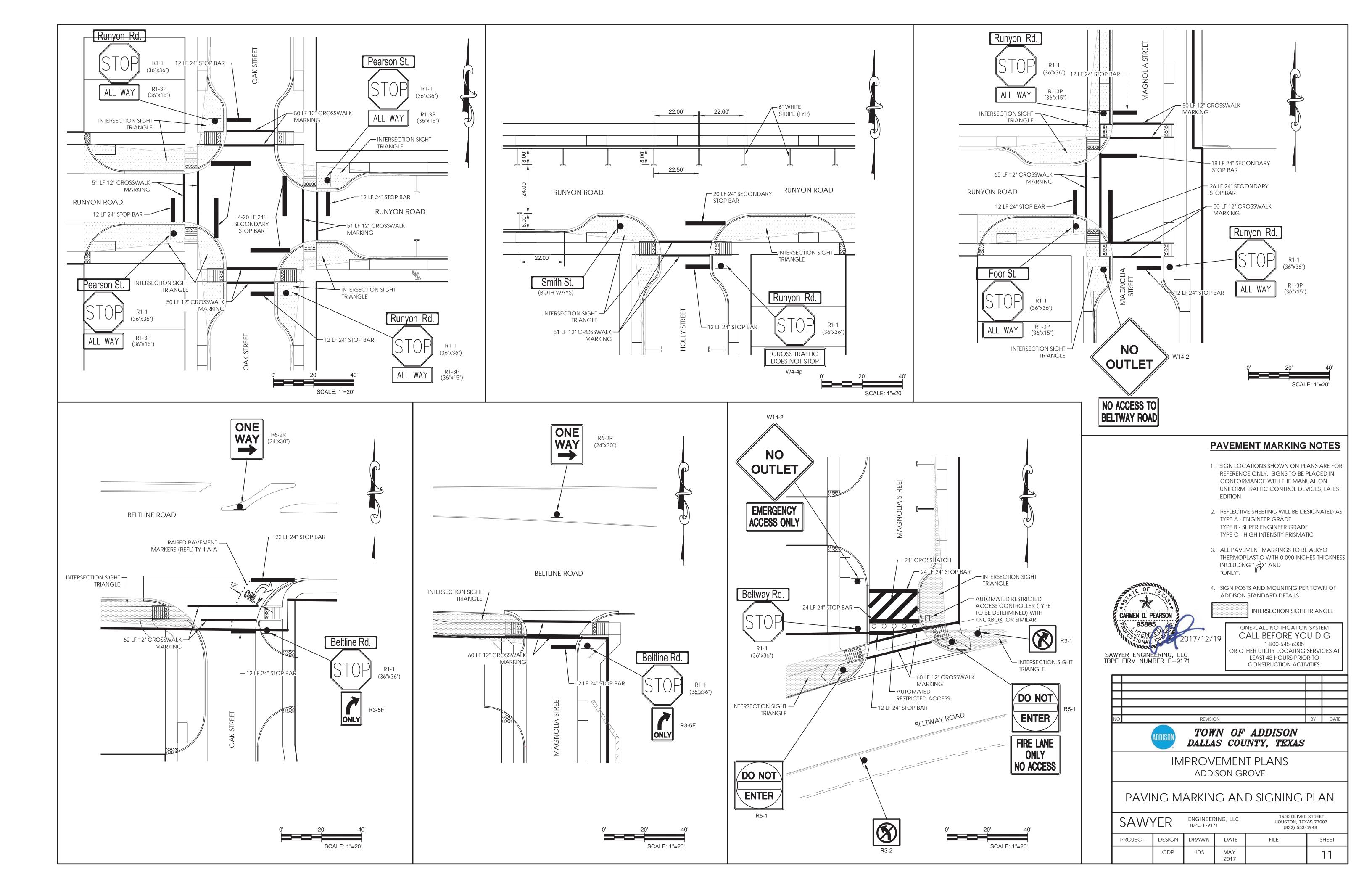


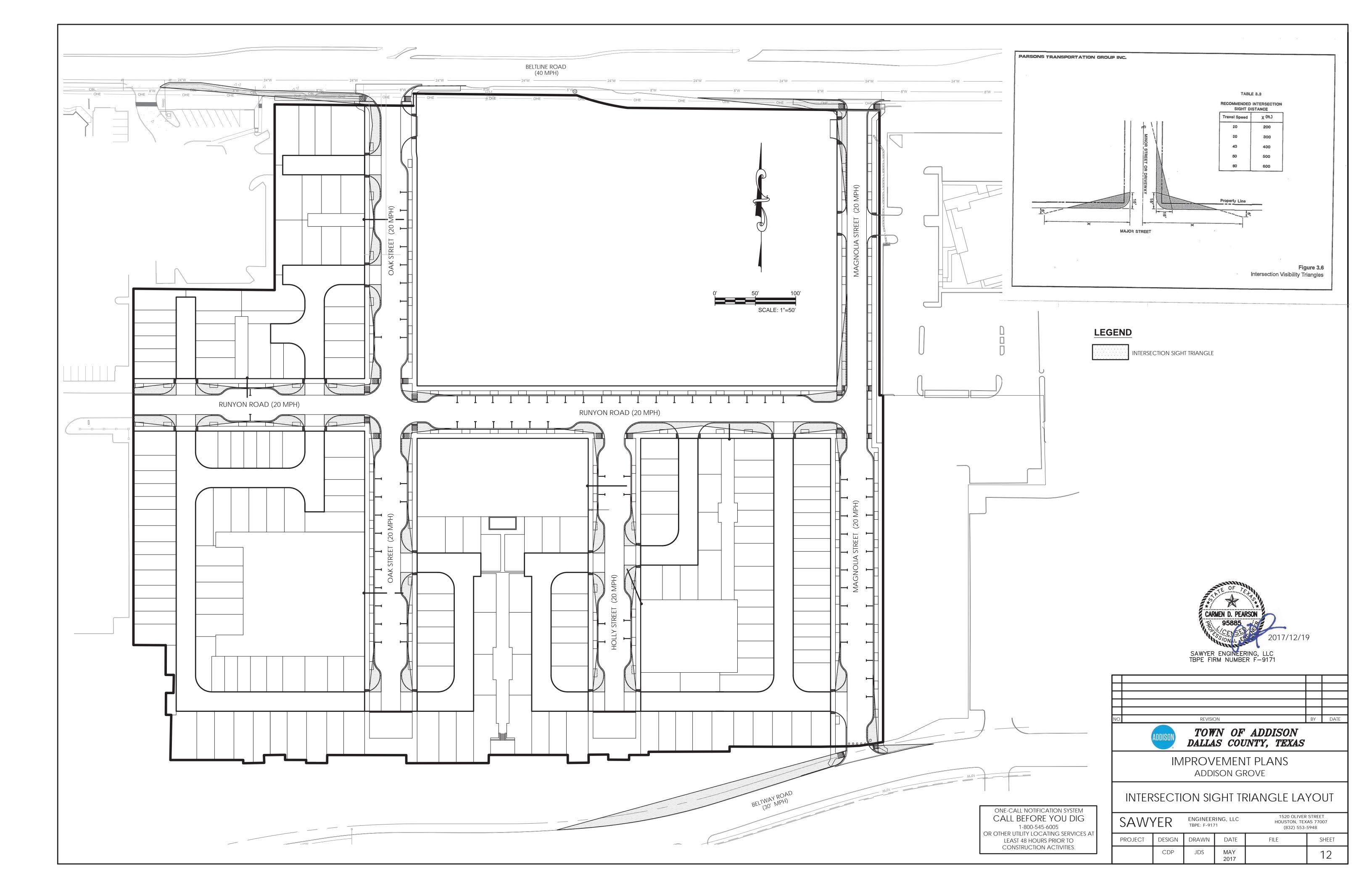
	MAGNOLIA S	TREET				640
· · · ·					HIGH POINT ELEV = 627.51 HIGH POINT STA = 8+85.34 PVI STA = 8+61.06	638
· · · · · · · · · · · · · · · · · · ·					PVI ELEV = 627.70 A.D. = -2.42%	636
					K = 37.00 89.45' VC	
		LOW POINT ELEV = 622.07 LOW POINT STA = 5+24.61 PVI STA = 5+50.00		ŝ	36 5.79	<u>634</u>
		PVI ELEV = 621.90 A.D. = 2.36% K = 37.00		BVCS = 8+16.33	:= 626.80 5 = 9+05. = - ∠ 07	632
		87.23' VC.	@ 1.86%	BCS	BVCE	630 630
21	6%; 2.10 2.27 2.38 36.38 36.38	5+93.61 622.71	P. G. L. @			628
= 621.	P.G.L. @ 0.96% = 4+40.62 - ELEV = 622.10 - P.G.L. @ 0.49% A = 4+74.12 L ELEV = 622.27 bVCE = 622.11 BVCE = 622.11	EVCE = 6				626
PGL ELEV = :621.71	 P.G.L. @ 0.96% STA = 4+40.62 P.G.L ELEV = 622.10 STA = 4+74.12 P.G.L ELEV = 622.27 P.G.L. @ -0.49% BVCS = 5+06.38 BVCE = 622.11 					624
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			7:00			
-00	5+00	6+00	7+00	8+00	9+00	9+60

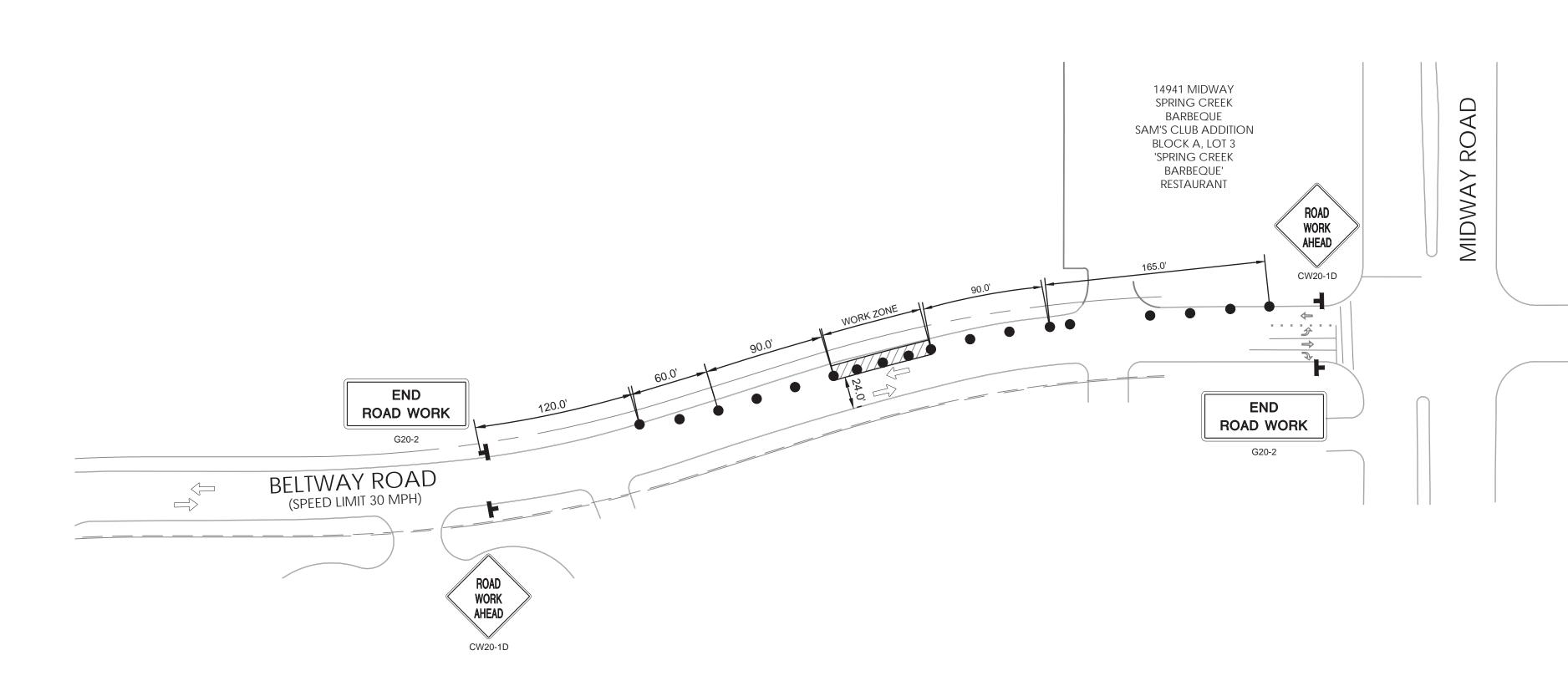
	0'		4'	8'
				ALE: 1''=40' ALE: 1''=4'
Point	Station	Offset	Side	TP Elevation
1	0+87.18	33.59	Lt.	Match Ex.
2	1+08.68	12.00	Lt.	Match Ex.
3	5+17.07	12.00	Lt.	621.79
4	5+24.40	15.20	Lt.	621.70
5	5+35.40	20.00	Lt.	621.61
6	8+48.90	20.00	Lt.	626.85
7	8+59.90	15.20	Lt.	627.06
8	8+67.23	12.00	Lt.	627.18
9	8+76.25	12.00	Lt.	627.21
10	8+97.19	38.37	Lt.	Match Ex.
11	9+13.54	27.24	Rt.	Match Ex.
12	8+92.97	12.00	Rt.	Match Ex.
13	7+99.66	12.00	Rt.	626.27
14	7+92.33	15.20	Rt.	626.05
15	7+81.33	20.00	Rt.	625.73
16	5+35.40	20.00	Rt.	621.61
17	5+24.40	15.20	Rt.	621.70
18	5+17.07	12.00	Rt.	621.79
19	5+07.62	12.00	Rt.	621.82
20	4+86.12	33.50	Rt.	621.82
21	4+62.12	33.50	Rt.	621.82
22	4+40.62	12.00	Rt.	621.82
23	0+97.28	12.00	Rt.	Match Ex.
24	0+85.71	22.70	Rt.	Match Ex.
25	1+57.12	12.00	Rt.	617.06
26	1+57.12	12.00	Lt.	617.06
27	5+38.90	20.00	Rt.	621.62
28	5+38.90	20.00	Lt.	621.62

PAVING LEGEND

ITEM O G VICES AT O S ANITARY SEWER AND MANHOLE SANITARY SEWER AND CLEANOUT S S O S S O S S S S S S S S S S S S S
VICES AT SANITARY SEWER AND CLEANOUT Image: Series of the seri
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PROPOSED FIRE HYDRANT ASSEMBLY PROPOSED WATERLINE WITH GATE VALUE. PROPOSED STORM SEWER PROPOSED STORM SEWER PROPOSED PRIVATE STORM SEWER PROPOSED PRIVATE STORM SEWER PROPOSED PRIVATE STORM SEWER PROPOSED TREE WELL PRO
AND BOX WITH 10' W.L.E. EXISTING WATERLINE WITH GATE VAI AND BOX PROPOSED STORM SEWER WITH MANHOLE AND INLETS PROPOSED PRIVATE STORM SEWER EXISTING STORM SEWER AND MANHOLE EXISTING STORM SEWER AND MANHOLE EXISTING INLET PROPOSED TREE WELL EXISTING OF PARABOLIC PAVEMENT CROWN AREA OF NON-STANDARD PARABOLIC PAVEMENT CROWN CARMEN D. PEARSON S5885 CARMEN D. PEARSON 2018/04/04 SAWYER ENGINEERING, LLC
AND BOX PROPOSED STORM SEWER WITH MANHOLE AND INLETS PROPOSED PRIVATE STORM SEWER PROPOSED PRIVATE STORM SEWER EXISTING STORM SEWER AND MANHOLE EXISTING INLET PROPOSED TREE WELL EXISTING INLET PROPOSED TREE WELL EXIST OF PARABOLIC PAVEMENT CROWN AREA OF NON-STANDARD PARABOLIC PAVEMENT CROWN SEWER ENGINEERING, LLC
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2'x6' TRUNCATED DOME PANEL 2'x6' TRUNCATED DOME PANEL LIMITS OF PARABOLIC PAVEMENT CROWN AREA OF NON-STANDARD PARABOLIC PAVEMENT CROWN CARMEN D. PEARSON 95885 2018/04/04 SAWYER ENGINEERING, LLC
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AREA OF NON-STANDARD PARABOLIC PAVEMENT CROWN CARMEN D. PEARSON 95885 CENSE CO
PAVEMENT CROWN OF CARMEN D. PEARSON 95885 95885 2018/04/04 SAWYER ENGINEERING, LLC
CARMEN D. PEARSON 95885 CENSE CENSE 2018/04/04 SAWYER ENGINEERING, LLC
ADDISON REVISION OF ADDISON DALLAS COUNTY, TEXAS
IMPROVEMENT PLANS ADDISON GROVE
PAVING PLAN & PROFILE -
MAGNOLIA STREET
SAWYERENGINEERING, LLC TBPE: F-91711320 OLIVER S HOUSTON, TEXAS (832) 553-59
SAWYERENGINEERING, LLC TBPE: F-9171HOUSTON, TEXAS (832) 553-59PROJECTDESIGNDRAWNDATEFILE



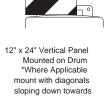








Chevron CW1-8



travel way

SPACING FOR CHANNELING DEVICES PLASTIC DRUMS ON MERGING TAPER @ 30' c-c WITH CHEVRON SIGN @ 60'c-c AND TYPE "C" WARNING LIGHT (FOR OVERNIGHT CLOSURE)

PLASTIC DRUMS ON DOWNSTREAM TAPER @35'c-c.

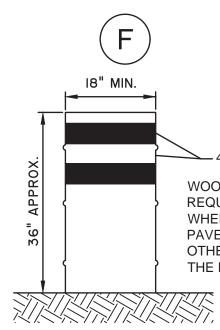
PLASTIC DRUMS ON RADII @ 5'c-c.

PLASTIC DRUMS ON TANGENT @ 35c-c WITH VERTICAL PANEL @ 70'c-c AND TYPE "C" WARNING LIGHT @ 70'c-c (FOR OVERNIGHT CLOSURE)

PLASTIC DRUMS IN FRONT OF CONSTRUCTION ZONE @ 20'c-c WITH VERTICAL PANEL @40'c-c AND TYPE "A" WARNING LIGHT @ 40'c-c (FOR OVERNIGHT CLOSURE)

CONCRETE TRAFFIC BARRIER (C.T.B.) OR LOW PROFILE CONCRETE TRAFFIC BARRIER (L.P.C.T.B.) WITH REFLECTORS @ 10'c-c IF PAVEMENT DROP IS MORE THAN TWELVE INCHES (12").

SPACINGS MAY BE ADJUSTED TO PROVIDE DRIVEWAYS, INTERSECTIONS AND/OR MEDIAN OPENINGS.



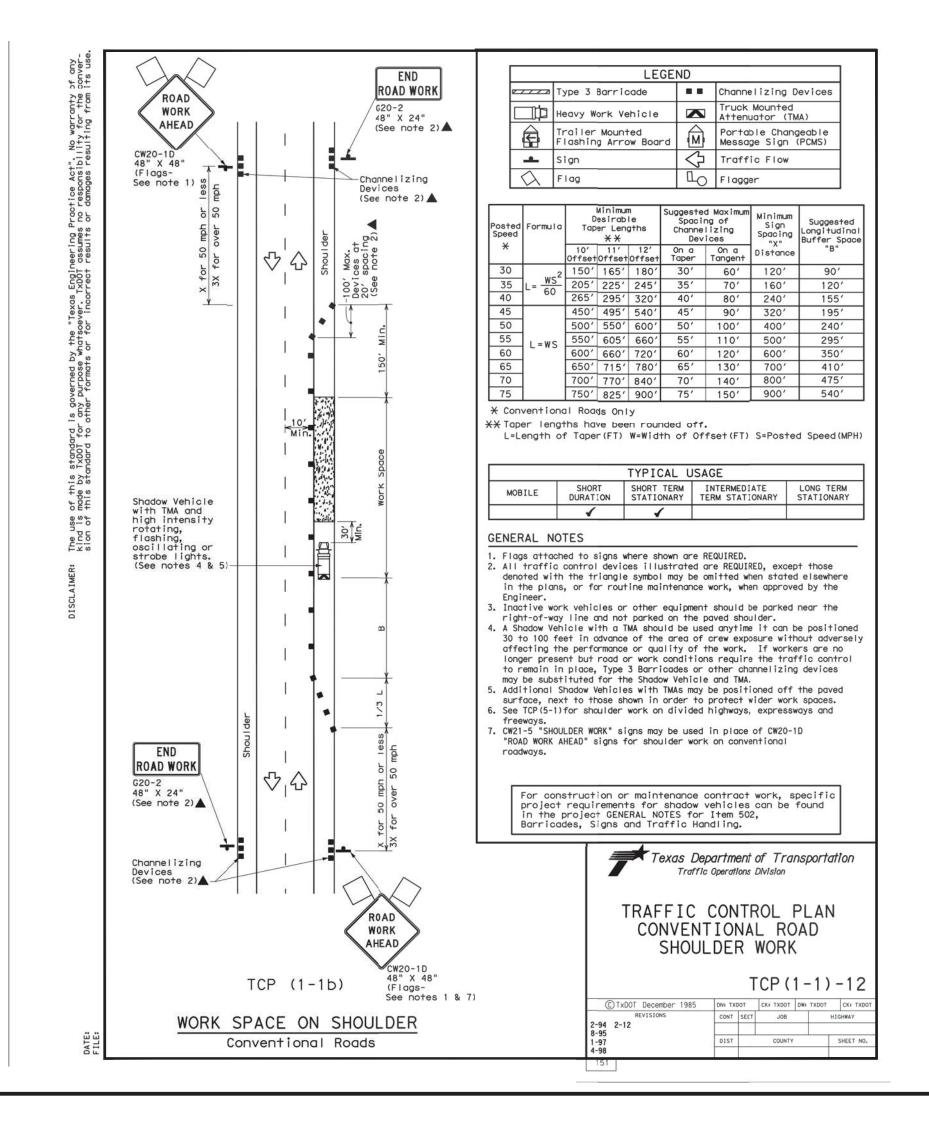
→ 4"-8" WIDE STRIPES WOOD OR METAL PANEL

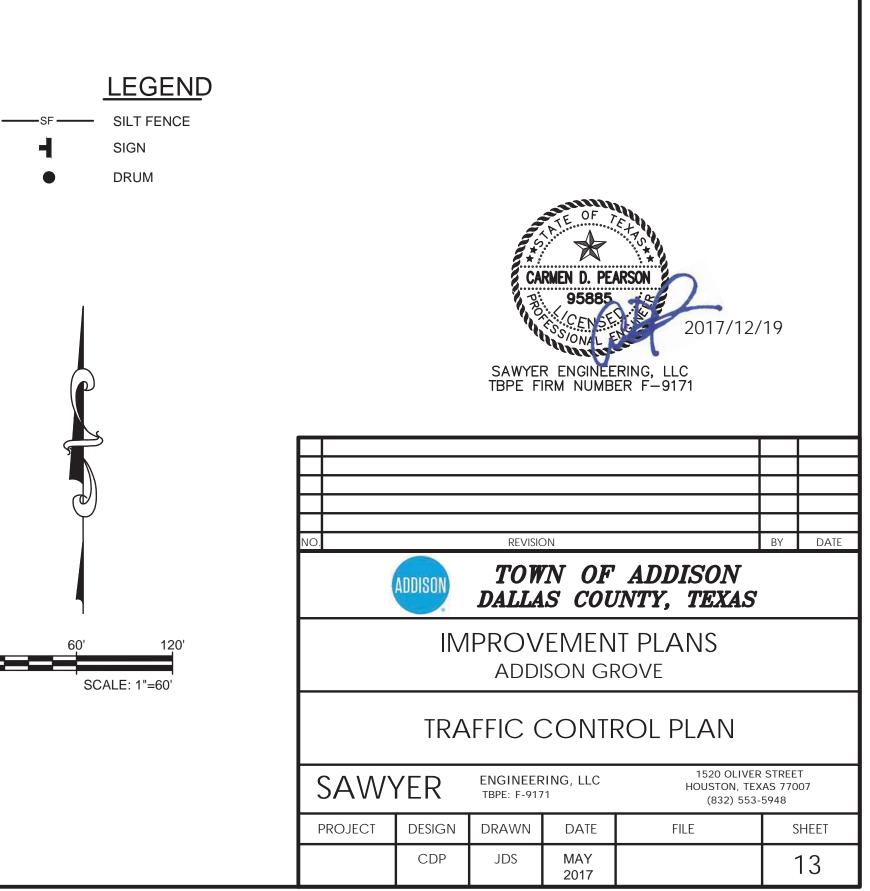
REQUIRED UNDER DRUM WHEN SET ON ASPHALT PAVEMENT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

DRUMS

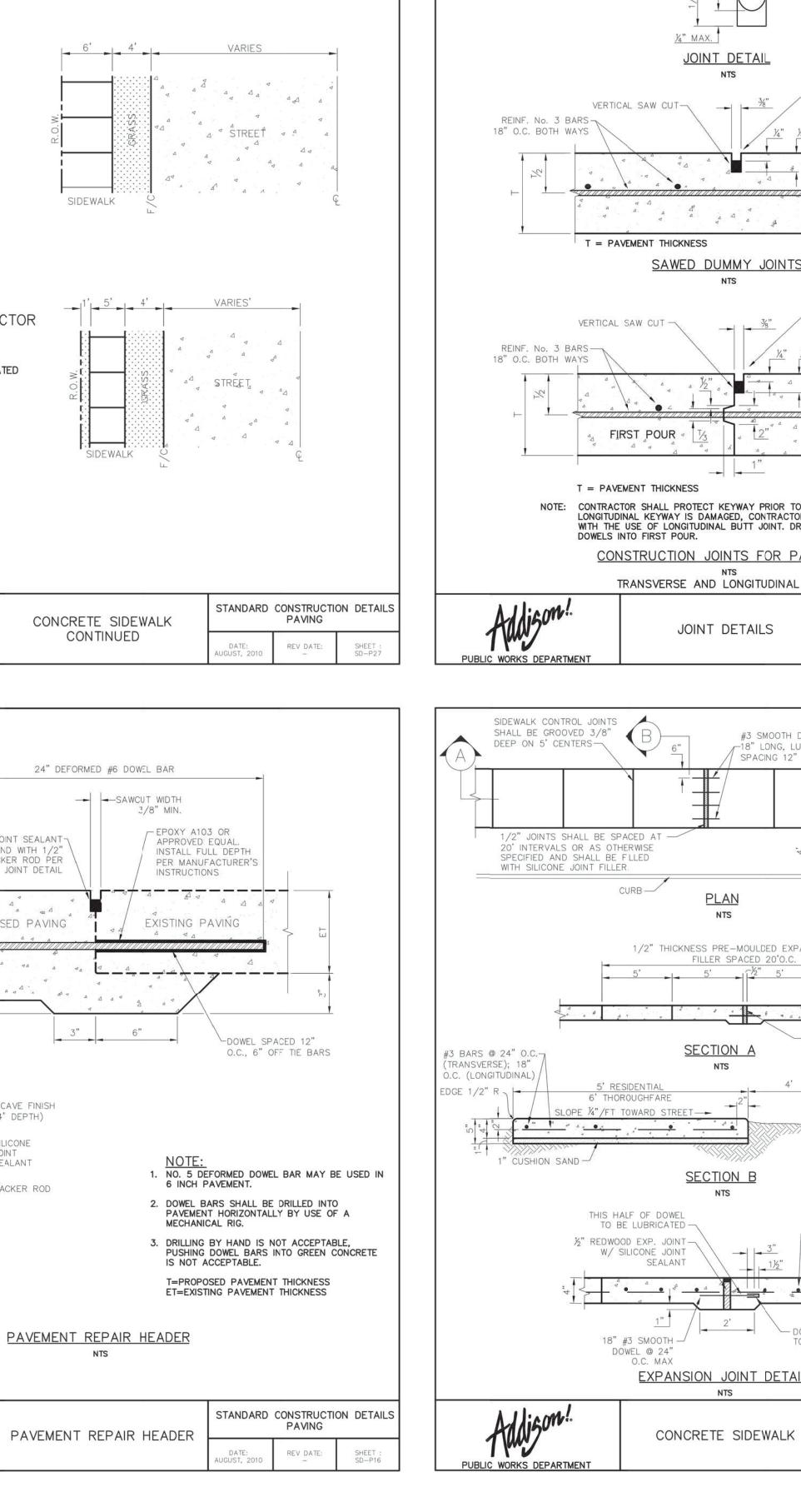
DRUMS, SET ON END, AND USED FOR TRAFFIC WARNING OR CHANNELIZATION SHALL BE APPROX. 36" IN HEIGHT AND A MIN, 18" IN DIAMETER. THE CONTRACTOR, AT HIS OPTION, MAY USE DRUMS MADE FROM STEEL BARRELS OR BLACK POLYETHYLENE PLASTIC DRUMS LINERS WEIGHING APPROX. EIGHT POUNDS EACH. THE MARKINGS ON DRUMS SHALL BE HORIZONTAL, CIRCUMFERENTIAL, REFLECTORIZED ORANGE AND REFLECTORIZED WHITE STRIPES, 4 TO 8 INCHES WIDE. THE FIRST REFLECTORIZED STRIPE SHOULD START WITHIN TWO (2) INCHES OF THE TOP OF THE DRUM. THERE SHALL BE AT LEAST TWO ORANGE AND TWO WHITE STRIPES ON EACH DRUM. IF THERE ARE NON-REFLECTORIZED SPACES BETWEEN THE HORIZONTAL ORANGE AND WHITE STRIPES, THEY SHALL BE NO MORE THAN 2 INCHES WIDE. METAL DRUMS SHALL BE PAINTED BLACK OR ORANGE BEFORE REFLECTORIZED STRIPES ARE ADDED. ALL DRUMS ON PROJECT WILL BE THE SAME COLOR. WHEN DRUMS ARE PLACED IN THE ROADWAY, APPROPRIATE WARNING SIGNS SHOULD BE USED. DURING HOURS OF DARKNESS, A FLASHING WARNING LIGHT SHOULD BE PLACED ON DRUMS USED SINGLY AS A WARNING DEVICE. STEADY BURN ELECTRIC LIGHTS OR DELINEATORS SHOULD BE PLACED ON DRUMS USED IN SERIES FOR TRAFFIC CHANNELIZATION. DRUMS SHALL BE WEIGHTED WITH SAND TO THE EXTENT INDICATED IN THE PLANS.

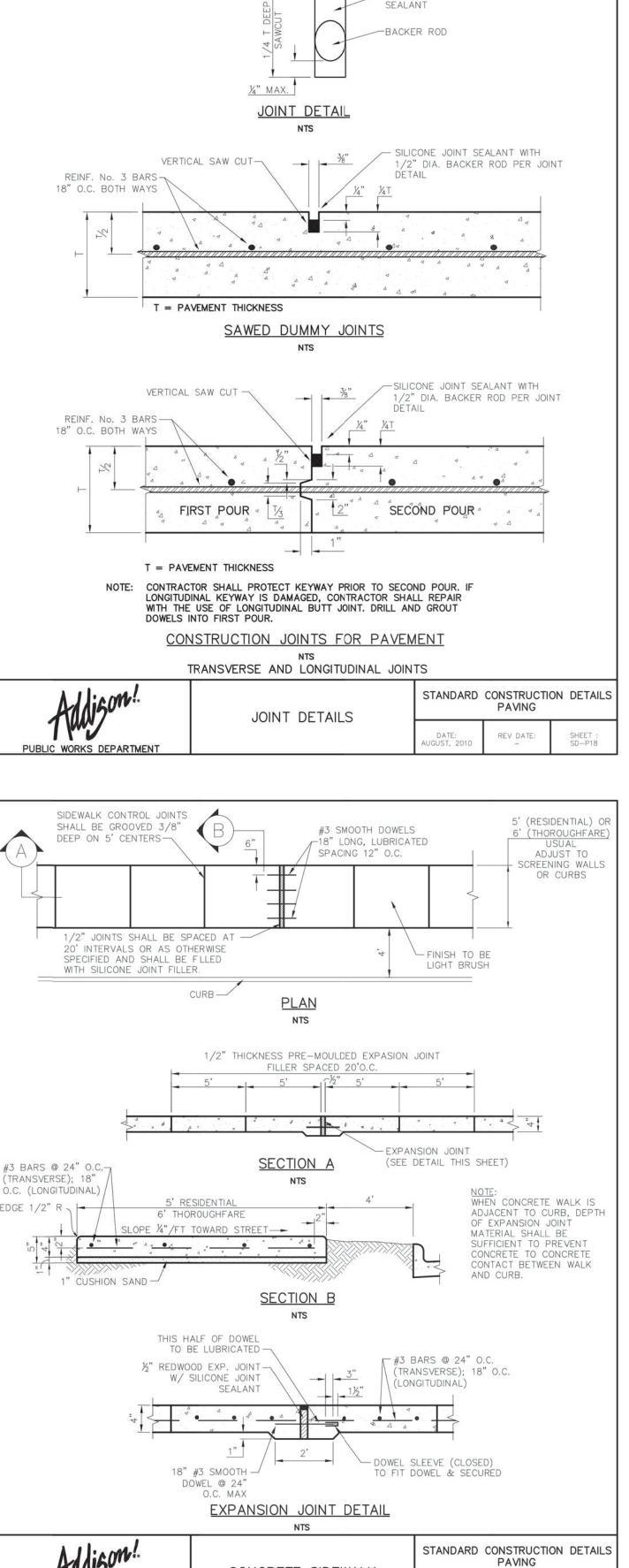
CWI-8 CHEVRON SIGNS, CW1-6A ARROW SIGNS OR VP-1 VERTICAL PANELS MOUNTED ABOVE DRUMS MAY BE USED AS SUPPLEMENTS TO DRUM DELINEATION.





	<u> PAVING – GENERAL NOT</u>	ËS			
ADDISON PUBLIC WORKS REQU	SHOWN IN ITEM 7. SUBGRADE DESIGN SHA IIREMENTS IN ITEM 3, AND SHALL EXTEND				
 B. ALL CURBS SHALL BE IN PAVEMENT. C. DETAIL AND ARRANGEME STANDARD CONSTRUCTION D. BAR LAPS SHALL BE THE. REINFORCING STEEL SHARE 	HALL BE AS SHOWN IN ITEM 7 (NCTCOG LA NTEGRAL WITH PAVEMENT AND SHALL BE C ENT OF PAVEMENT JOINTS, ALL TYPES, SHA DN DETAILS.	OF THE SAME STRENGTH AS CON ALL BE AS SHOWN ON THE TOWN	··· •	ARTERIAL	ľ
	ENT SHALL BE 6" THICK AND SHALL BE S COMPACTED TO A DENSITY NOT LESS THA		3S.		
TESTS MUST BE SUBMITTED TO OF LIME REQUIRED. LABORATO IS USED. SEE NCTCOG ITEM 30	O THE PUBLIC WORKS DEPARTMENT FOR A RY TEST MAY BE WAIVED PROVIDED AT LE 01.2 "LIME TREATMENT". FLEXIBLE BASE (C SUBSTITUTED FOR LIME TREATMENT WITH TH	PPROVAL TO DETERMINE AMOUN AST 36 LBS. OF LIME PER SQ. RUSHED STONE/CONCRETE) PER	YD.	6' SIDEWALK EDGE SHALL BE LOCATED ON THE R.O.W. LINI OF ARTERIAL STREETS.	E ^.0.8
. NO TRAFFIC ON FINISHED SUB	BY BAR CHAIRS OR OTHER DEVICES APPR GRADE SHALL BE PERMITTED AFTER REINFO L BE PERMITTED BEFORE OR DURING THE F	ORCING STEEL IS INSTALLED ABO	DVE		ŀ
ENGINEER.	ROWN STREETS SHALL BE 1/4" PER FOOT	UNLESS APPROVED BY THE TOW	WN		
MAJOR ARTERIAL - 10" CLAS MINOR ARTERIAL - 8" CLAS	S "P1" OR "P2." 4000-4500 psi REF. NCTCOC ECTOR – 8" CLASS "P1" OR "P2." CLASS "P1" OR "P2."	G 303.3.4.2		RESIDENTIAL/COLLE	TOR
SIDEWALK AND BFR's-4"-CLA DRIVE APPROACH-8"-CLASS ALLEY-6" CLASS "P1" OR "P2	"P2"				
	BE AS DEFINED BY NCTCOG 303.3. SHALL BE PROVIDED WITH BERMUDA GROU	JND COVER.		5' SIDEWALK SHALL BE LOC 1' INSIDE R.O.W. OF RESIDENTIAL STREETS.	ATED
REPLACE THE CONCRETE WITH DAMAGES WILL BE ASSESSED	HOROUGHFARE HAS BEEN SAWCUT AND REM A NEW POUR (i.e. DRIVEWAY) WITHIN 14 (AT \$500 PER DAY FOR EACH CALENDAR D ADE PRIOR TO ACCEPTANCE OR ISSUANCE	CALENDAR DAYS. LIQUIDATED DAY IN EXCESS OF 14 CALENDAR	۲		
	BLE ROUTES SHALL HAVE A MAXIMUM LONG				
	TURNS AND DRIVEWAYS SHALL HAVE A MIN SPECIFIED FOR THE STREET PAVEMENT OF				
OF A CONCRETE PAVING THE CONSTRUCTION PLAN	PROJECT. WHEN BUILT SEPARATELY, THE S	STRENGTH SHALL BE AS SPECIFIE			
					F
Addison?	PAVING GENERAL NOTES	DATE: REV DATE:	SHEET :	Addison!	CONC
PUBLIC WORKS DEPARTMENT	-7			PUBLIC WORKS DEPARTMENT	
	ni ni Gi or				
P 6" 1/4"/FT. 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	SO' ROW 27' 13' 13' 7' 13' 7' 13' 7' 13' 7' 13' 13' 13' 7' 13' 13' 13' 13' 13' 13' 13' 13	A 6" 1/4"/TT. CURB CROWN (SEE VARIES SPECIA	HEIGHT G" N HT. VARIES CHART) S (SEE AL NOTES)	SILICONE COMPO DIA. BA	JOINT SEALANT UND WITH 1/2" CKER ROD PER JOINT DETAIL
<u>ОNE MOV</u> <u> <u> </u> <u> </u></u>	27' 13' 13' 7' 13' 7' 13' 7' 13' 7' 13' 7' 13' 7' 13' 13' 13' 7' 13' 13' 13' 13' 13' 13' 13' 13	ANES ANES ANES ANES ANES ANES ANES CURB HEIGHT 6" CROWN HEIGHT 4 VARIES SPECIAL NO CROWN CRES CROWN	HEIGHT 6" N HT. VARIES CHART) S (SEE AL NOTES)	SILICONE COMPO DIA. BA	JOINT SEALANT JUND WITH 1/2" ACKER ROD PER JOINT DETAIL OSED PAVINO
6" 7' 1/4"/FT. 0NE 0NE MOV	27' 13' 13' 7' 13' 7' 13' 7' 10 10 10 10 10 10 10 10 10 10	ANES ANES ANES CURB HEIGHT 6" CROWN HEIGHT 4 VARIES SPECIAL NO CROWN CR	HEIGHT 6" N HT. VARIES CHART) S (SEE AL NOTES)	SILICONE COMPO DIA. BA	JOINT SEALANT JUND WITH 1/2" CKER ROD PER JOINT DETAIL
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FULL WIDTH PAVEMENT OF 36' WE STREET TYPE ESIDENTIAL COLLECTOR 4' COMMERCIAL / INDUSTRIAL COLL B' COMMERCIAL / INDUSTRIAL COLL B' COMMERCIAL / INDUSTRIAL COLL	27' 13' 7' 13' 7' 13' 7' 13' 7' 13' 7' 10 10 10 10 10 10 10 10 10 10	ANES ANES CURB HEIGHT 6" CROWN HEIGHT 4 VARIES SPECIAL NO ANES CURB CROWN SEE SPECIAL NO CROWN (SEE SPECIAL NO VARIES SPECIA CORB CROWN (SEE SPECIAL NO VARIES SPECIA CURB CROWN (SEE SPECIAL NO VARIES SPECIA D BY THE PUBLIC WORKS DEPT. B R.O.W. WIDTH P 11' 60' 12' 12' 64' 10' 12' 68' 10'	HEIGHT 6" N HT. VARIES CHART) S (SEE AL NOTES) CROWN HT. 5" 6"	SILICONE COMPO DIA. BA	JOINT SEALANT JUND WITH 1/2" ACKER ROD PER JOINT DETAIL A A A A A A A A A A A A A A A A A A
FULL WIDTH PAVEMENT OF 36' WID STREET TYPE ESIDENTIAL COLLECTOR 4' COMMERCIAL / INDUSTRIAL COLL 8' COMMERCIAL / INDUSTRIAL COLL B' COMMERCIAL / INDUSTRIAL COLL B' COMMERCIAL / INDUSTRIAL COLL A' COMMERCIAL / INDUSTRIAL COLL B' COMMERCIAL / INDUSTRIAL COLL A' COMMERCIAL / INDUSTRIAL COLL B' COMMERCIAL / INDUSTRIAL COLL B' COMMERCIAL / INDUSTRIAL COLL A' COMMERCIAL / INDUSTRIAL COLL A' COMMERCIAL / INDUSTRIAL COLL A' COMMERCIAL / INDUSTRIAL COLL B' COMMERCIAL / INDUSTRIAL COLL A' COMMERCIAL / INDUSTRIAL COLL	27' 13' 7' 13' 7' 13' 7' 13' 7' 13' 7' 10 10 10 10 10 10 10 10 10 10	CURB HEIGHT 6" CROWN HEIGHT 4 VARIES SPECIAL NO ANES CURB SPECIAL NO ANES CURB SPECIAL NO ANES CURB CROWN (SEE SPECIAL NO VARIES SPECIA COMM SPECIA CO	HEIGHT 6" N HT. VARIES CHART) S (SEE AL NOTES) CROWN HT. 5" 6"	SILICONE COMPO DIA. BA	JOINT SEALANT JUND WITH 1/2" CKER ROD PER JOINT DETAIL
6" 7' 1/4"/FT 0NE ONE MOV 0NE MOVIN SAWED LONGITUDINAL DUMMY JOINT MOVIN	27' 13' 7' 13' 7' 13' 7' 13' 7' 13' 7' 10 10 10 10 10 10 10 10 10 10	CURB HEIGHT 6" CROWN HEIGHT 4 VARIES SPECIAL NO ANES ANES CURB COWN ANES CURB COURD	HEIGHT 6" N HT. VARIES CHART) S (SEE AL NOTES) CROWN HT. 5" 6"	SILICONE COMPO DIA. BA PROPI a a a a a a a a a a a a a a a a a a a	JOINT SEALANT JUND WITH 1/2" ACKER ROD PER JOINT DETAIL A A A A A A A A A A A A A A A A A A





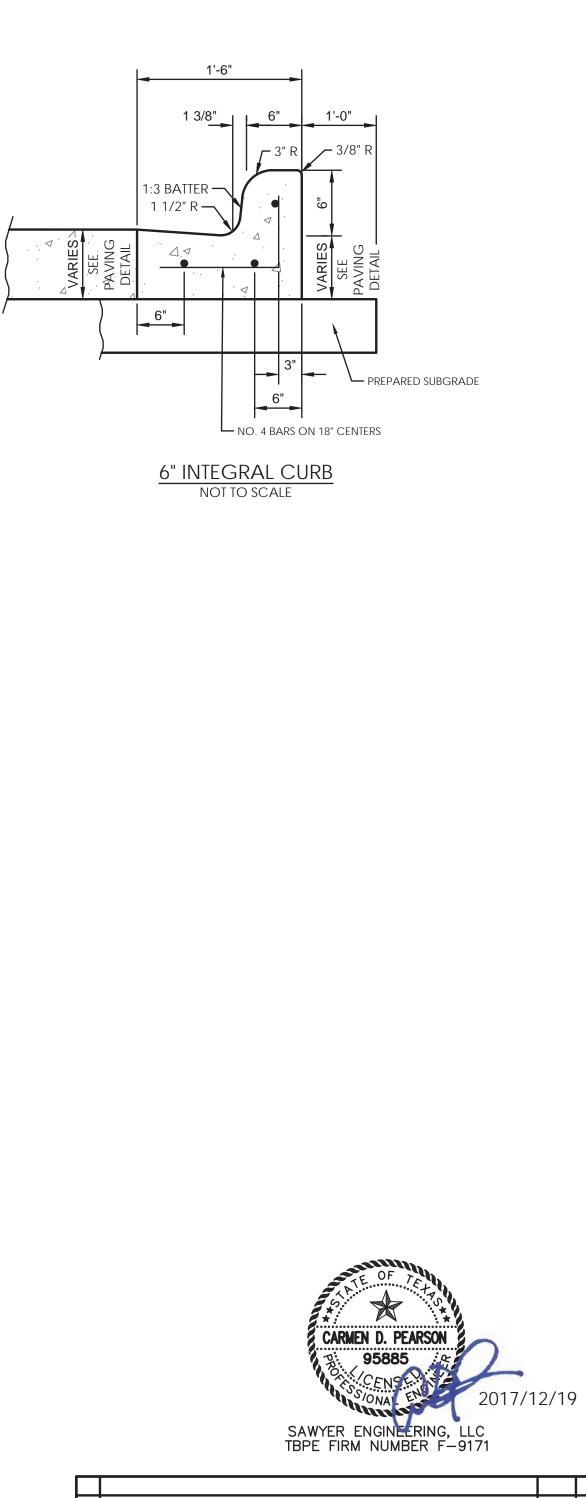
DATE: GUST, 2010

REV DATE:

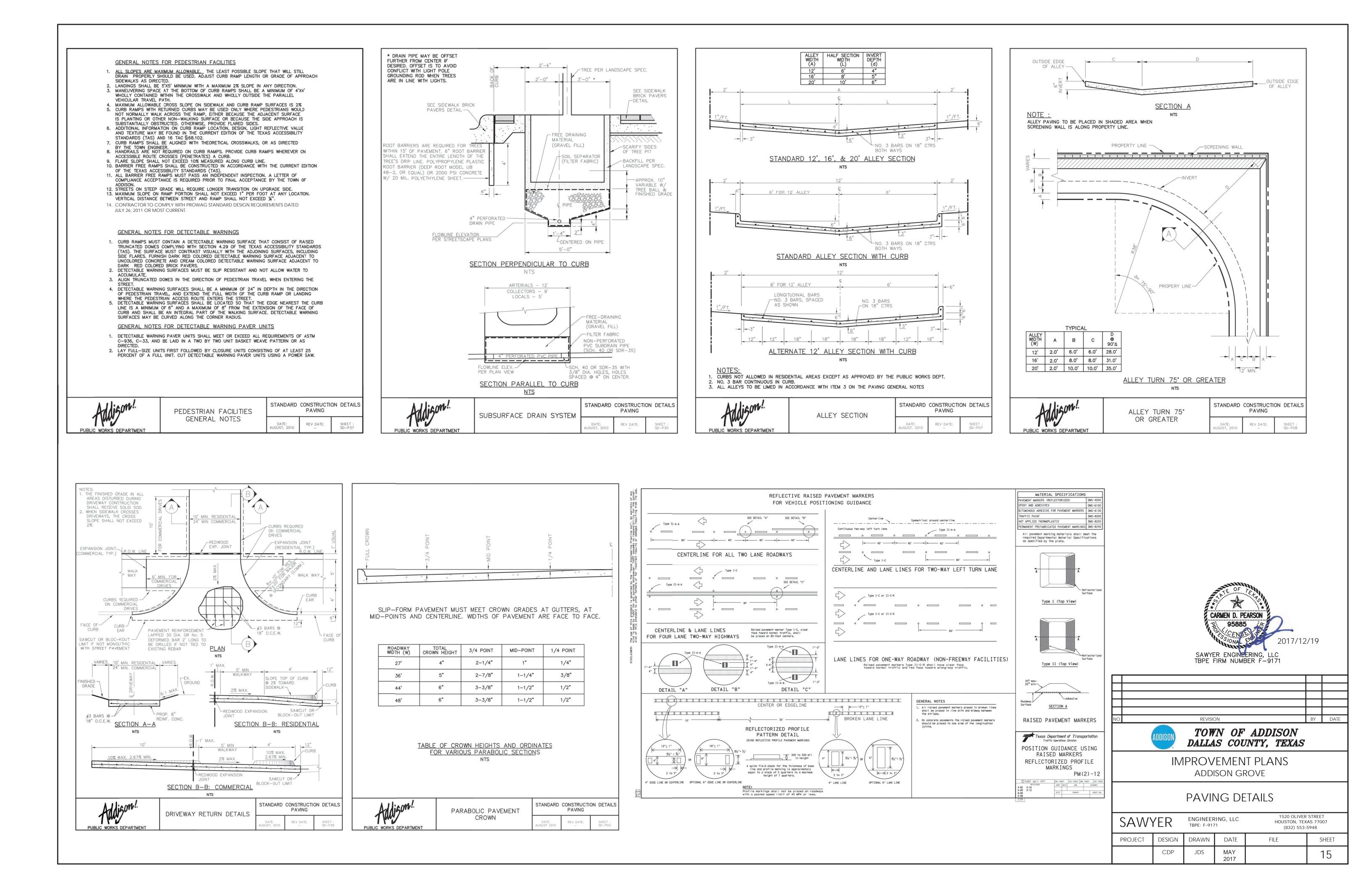
SHEET : SD-P26

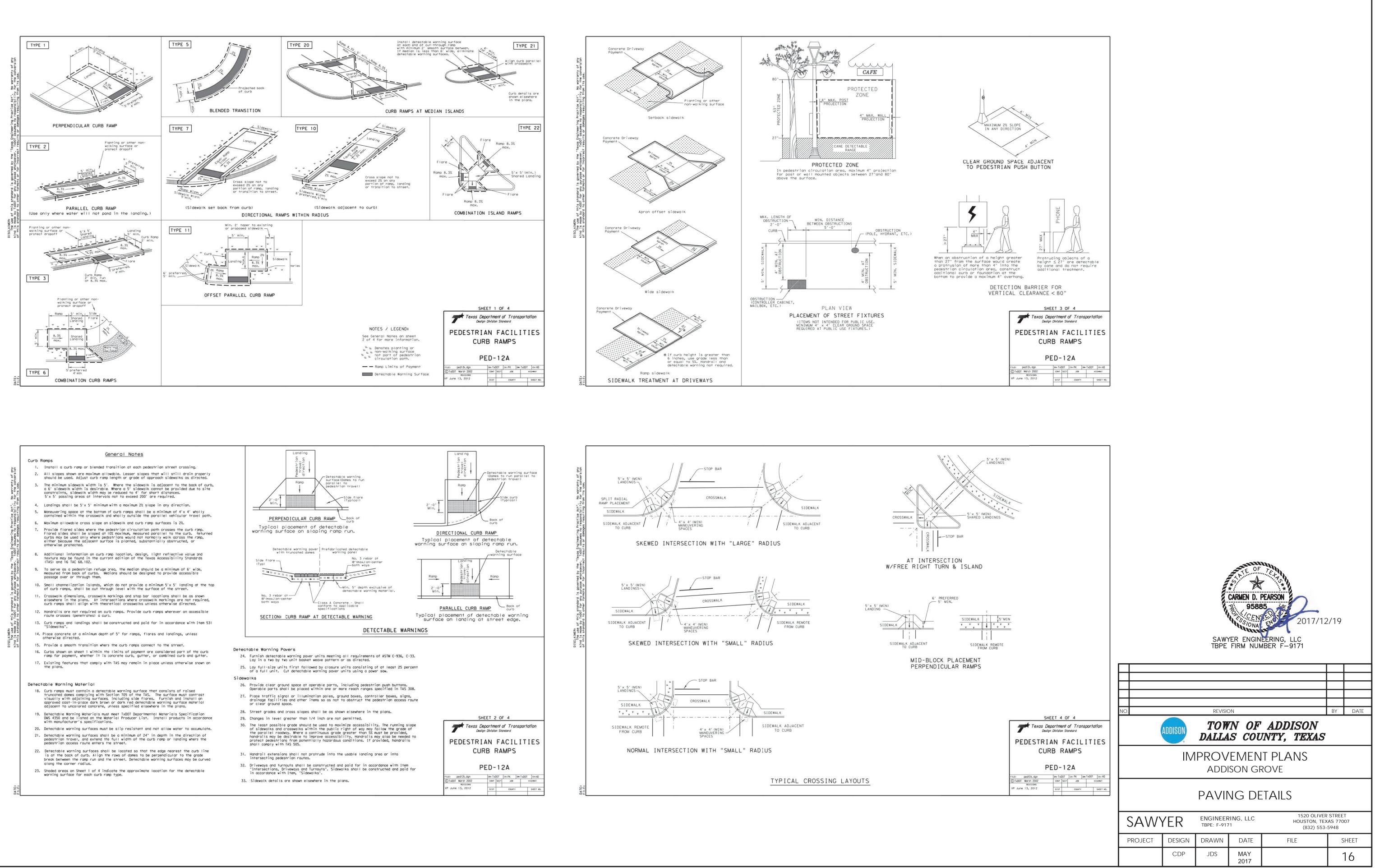
-CONCAVE FINISH (1/4" DEPTH)

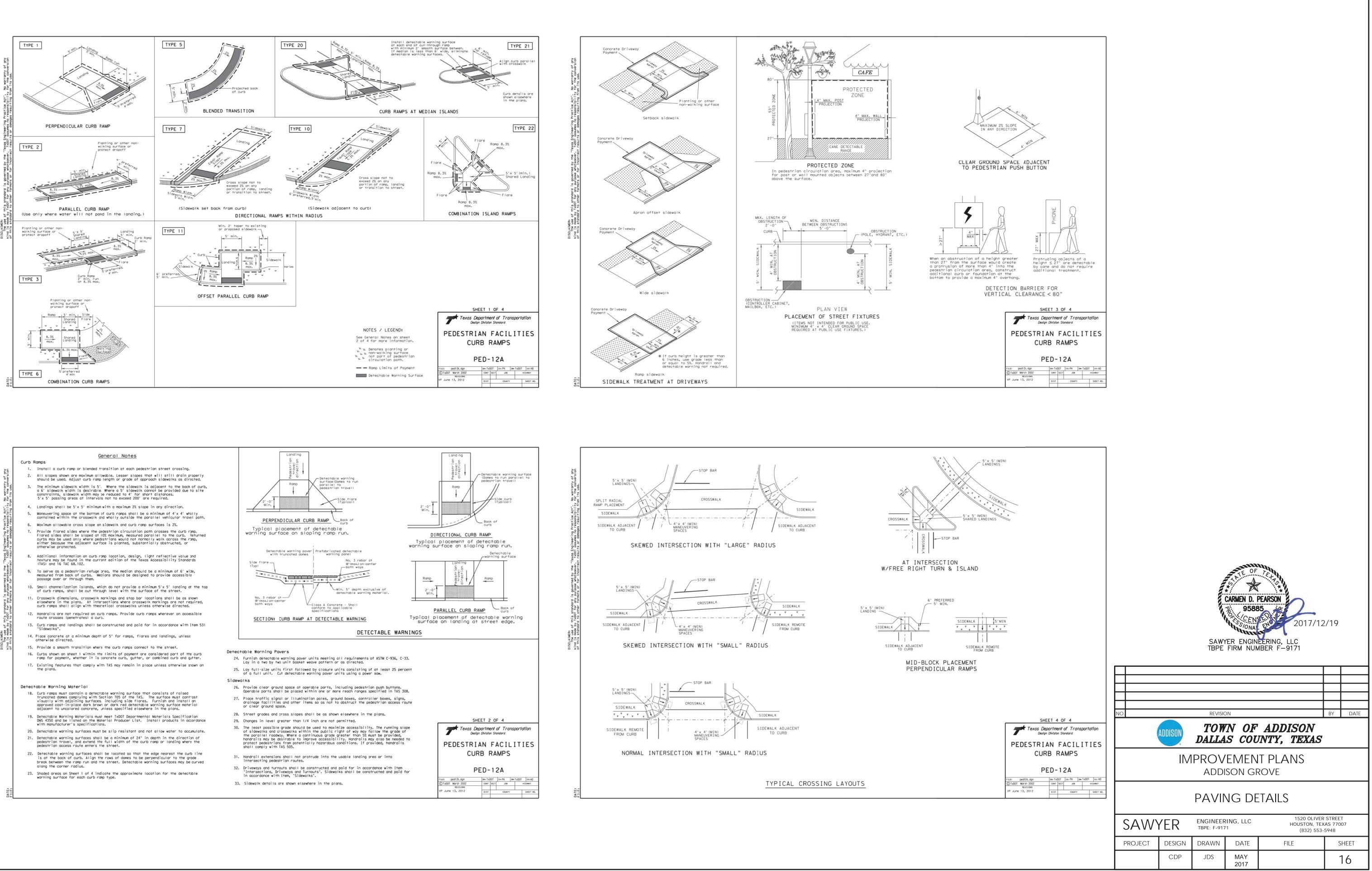
-SILICONE JOINT



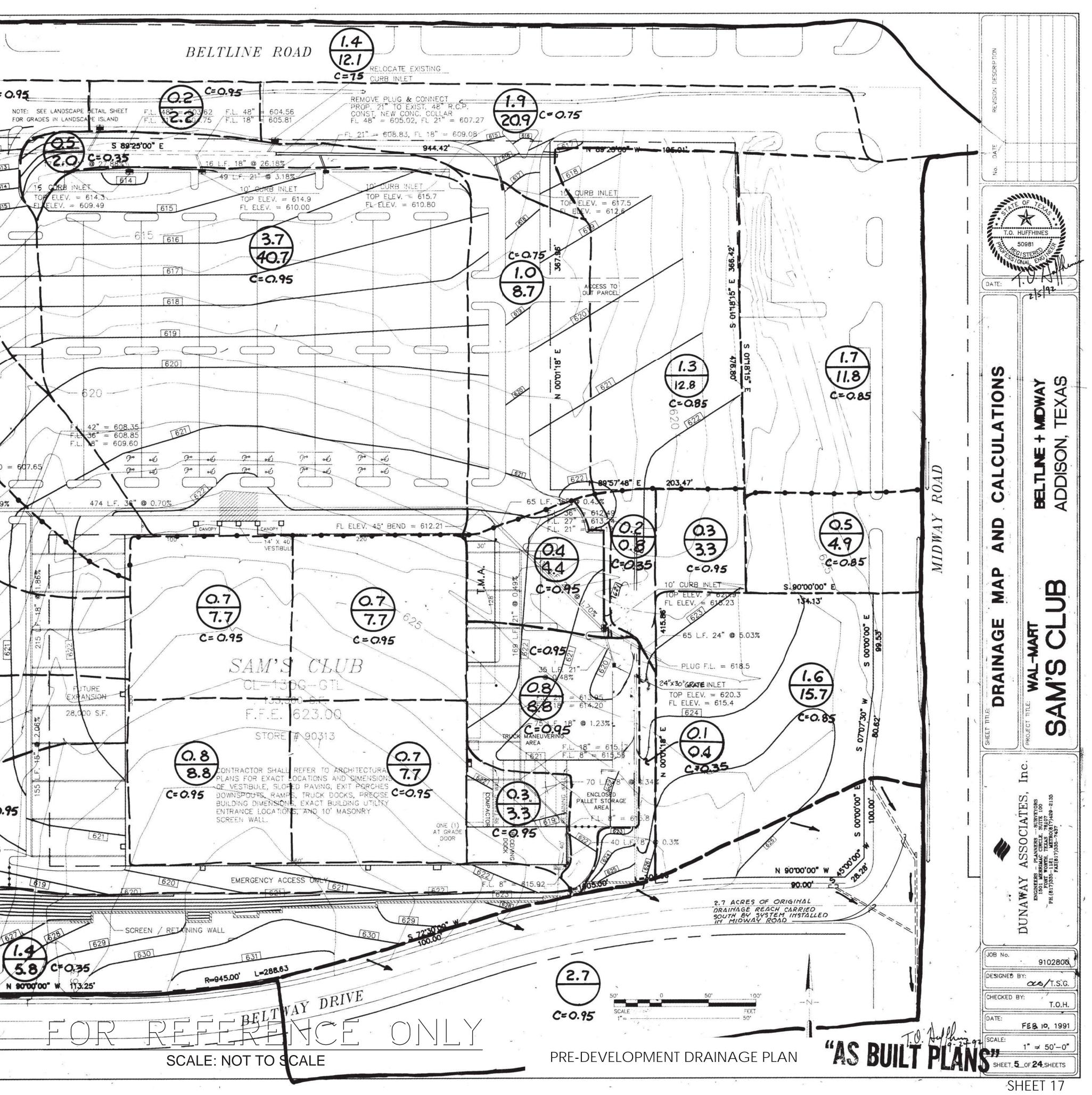
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NO.		REVISIO	ON			ΒY	DATE					
	TOWN OF ADDISON DALLAS COUNTY, TEXAS											
IMPROVEMENT PLANS ADDISON GROVE												
		PAVI	ng de	TAILS								
SAW	YER	ENGINEER TBPE: F-917		I	1520 OLIVER HOUSTON, TEX (832) 553-	AS 770						
PROJECT	E	S	SHEET									
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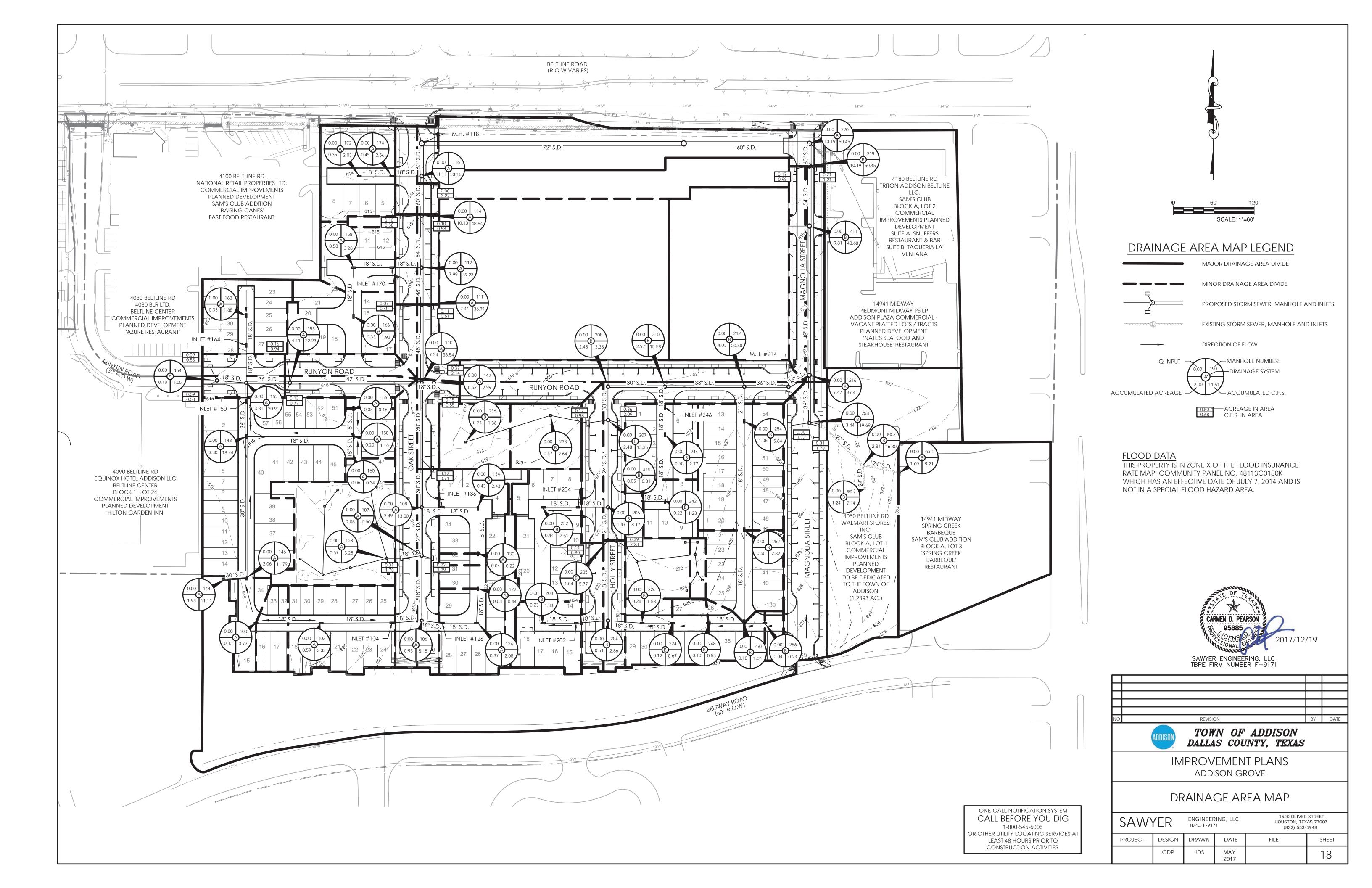






EXISTING CONDITIONS ORIGINAL DRAINAGE CALCULATIONS TO EXIST. CONCENTRATION POINT A EXISTING POINT 'A Drainage Calculations (T.H.D. Hydraulic Manual) C= 0.95 Rolling Terrain 1%-3.5% 0.6 Impervious Soil CONNECT PROP. 36" TO EX. 54" Commercial C= 0.6 - 0.9 (use C=0.75) $F.L.^{*}54'' = 601.15$ $F.L.^{*}36'' = 601.90$ 6.6 For Dallas County $I_{zs} = \frac{b}{(1+d)^{e}} = \frac{90}{(10+6.7)}.774 = 9.3 \text{ in/hr.}$ Qz= C.I.A. = (0.75)(9.3)(A) EXISTING 54" R.C.P. C= 0.35 Q== 6.95(A) EXIST. 36" R.C.P. STUB-OUT 10' CURB INLET 03 POINT 'A' ACRES = 31.5 70P ELEV. = 613.5FL ELEV. = 608.6 Q25 = 218.9 C.F.S. 1.2 18 0 53.7% 1.0 ACCESS TO ADJACENT PROPERTY PROPOSED CONDITIONS 9.8 $I_{100} = \frac{106}{(10+8.3)^{0.762}} = 11.57 \text{ IV./HR.}$ 36" = 603.0218" = 603.77C=0.85 Q,000 = C. I. A. 225 L.F. 36" @ 1.86%-1.1 DIRECT Q TO EXISTING 12.1 SYSTEM IN BELTLINE ELEV. 45' BEND = 606.09 -ACRES C=0.95 C 63 L.F. 36"/ @ 1.45% 0.8 0.35 HEADWAL 0.75 4.3 5.2 0.85 6.6 0.95 69 25 00 E INLET OTALS ; 13.9 AC. 0.84 175.00 LEV. = 617.40C=0.35 EV. = 611.40Q 100 = 135.1 C.ES. DIRECT 66 6. 2.4 Q 100 THRU DETENTION POHDS FV FIF 100 YR, W.S. CI4.0 615 Wel Stores 州 ACRES _<u>c</u> 0.7 3.9 0.35 7.74 0 0.75 0.85 2.1 . C=0.95 8.9 0.95 42" @ 0.49% TOTALS 14.9 0.78 Q 100 117 = 134.5 C.F.S. 1.5 16.5 ORIGINAL Q25 TO POINT A= 218.9 C.F.S. LESS Q100 DIRECT TO SYSTEM = -135.1 C.F.S. MAX. Q100 OUT FROM POMOS - 83.8 C.F.S. C=0.9 PETENTION POND YR. W. 00 1345 CES. PEAK Q (10 10 min.) F.L/18" = 613.60F.L. 15" = 613.85 C=0.99 1.3 14.5 4' SQUARE M.H. TOP, RIM = 619.5 FL IN = 611.8 FL OUT = 611.5 C= 0.95 1.2 13.4 1.15 TIME IN A ELEV. = 612.9LEGEND " MASONRY DRAINAGE REACH REA DIVIDES DIVIDE C. FS. 1.2 4.9 C= 0.35 L=356





DRAINAGE AREA COMPUTATIONS - SYSTEM A

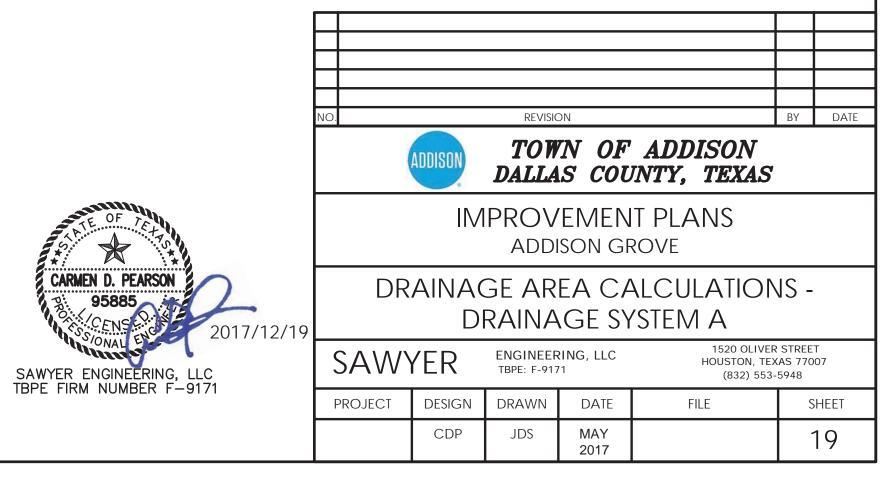
STORM PROFILES - SYSTEM A

FROM	то	AREA	TOTAL AREA	с	Тс	I ₁₀	Q 10	I ₁₀₀	Q 100
A CONTRACTOR OF A CONTRACT	12402.200		120000					(IN/HR)	
MH	MH	(AC)	(AC)		(MIN)	(IN/HR)	(CFS)		(CFS)
100	102	0.13	0.13	0.88	10.00	6.54	0.73	9.27	1.03
102	104	0.46	0.59	0.88	10.63	6.40	3.32	9.08	4.71
104	106	0.00	0.59	0.88	11.58	6.20	3.32	8.82	4.58
106	107	0.00	0.95	0.88	11.98	6.12	5.15	8.71	7.32
107	108	0.00	2.06	0.88	12.53	6.02	10.90	8.57	15.51
108	node 2	0.00	2.49	0.88	12.97	5.94	13.00	8.46	18.51
node 2	110	0.00	2.61	0.88	13.42	5.86	13.45	8.35	19.18
110	111	0.00	7.24	0.88	14.11	5.74	36.54	8.18	52.14
111	112	0.00	7.41	0.88	14.78	5.63	36.71	8.04	52.42
112	114	0.00	7.99	0.88	15.09	5.58	39.23	7.97	56.04
114	116	2.11	10.10	0.88	15.62	5.49	48.84	7.86	69.83
116	118 120	0.56	11.11	0.88	16.01	5.44	53.16	7.78	76.05
118	120	0.00	11.11	0.88	16.31	5.39	53.16	7.72	75.46
inlet 304	111	0.07	0.07	0.88	10.00	6.54	0.40	9.27	0.56
inlet 306	111	0.11	0.11	0.88	10.00	6.54	0.61	9.27	0.86
122	124	0.08	0.08	0.88	10.00	6.54	0.44	9.27	0.63
124	126	0.29	0.37	0.88	10.34	6.47	2.08	9.17	2.95
124	106	0.00	0.37	0.88	10.68	6.39	2.08	9.07	2.91
128	inlet 310	0.57	0.57	0.88	10.00	6.54	3.28	9.27	4.65
inlet 310	107	0.31	0.88	0.88	10.16	6.51	5.04	9.22	7.14
inlet 312	107	0.22	0.22	0.88	10.00	6.54	1.29	9.27	1.82
120	node	0.04	0.04	0.99	10.00	<u>CEA</u>	0.00	0.07	0.24
130	node	0.04	0.04	0.88	10.00	6.54	0.22	9.27	0.31
node	134	0.00	0.15	0.88	10.40	6.45	0.85	9.15	1.21
134	136	0.28	0.43	0.88	10.46	6.44	2.43	9.13	3.45
136	108	0.00	0.43	0.88	10.81	6.36	2.43	9.03	3.42
138	140	0.03	0.03	0.88	10.00	6.54	0.17	9.27	0.24
140	node	0.08	0.00	0.88	10.00	6.47	0.64	9.18	0.90
140	node	0.00	0.11	0.00	10.01	0.41	0.04	0.10	0.00
inlet 308	node 2	0.12	0.12	0.88	10.00	6.54	0.71	9.27	1.00
inlet 314	142	0.37	0.37	0.88	10.00	6.54	2.14	9.27	3.04
142	110	0.00	0.52	0.88	10.02	6.54	2.99	9.27	4.24
inlet 316	142	0.15	0.15	0.88	10.00	6.54	0.85	9.27	1.20
144	146	1.93	1.93	0.88	10.00	6.54	11.11	9.27	15.75
146	148	0.13	2.06	0.88	10.21	6.50	11.79	9.21	16.72
148	150	1.03	3.30	0.88	10.89	6.35	18.44	9.01	26.17
150	152	0.00	3.30	0.88	11.25	6.27	18.44	8.91	25.88
152	153	0.00	3.81	0.88	11.43	6.24	20.91	8.86	29.71
153	110	0.00	4.11	0.88	11.86	6.15	22.23	8.74	31.61
inlet 318	153	0.16	0.16	0.88	10.00	6.54	0.94	9.27	1.33
inlet 320	153	0.13	0.13	0.88	10.00	6.54	0.77	9.27	1.10
							-		
inlet 322	154	0.09	0.09	0.88	10.00	6.54	0.53	9.27	0.75
154	152	0.00	0.18	0.88	10.15	6.51	1.05	9.23	1.49
inlet 324	154	0.09	0.09	0.88	10.00	6.54	0.53	9.27	0.75
156	158	0.03	0.03	0.88	10.00	6.54	0.16	9.27	0.22
158	138	0.03	0.03	0.88	10.00	6.48	1.16	9.27	1.65
160	158	0.06	0.06	0.88	10.00	6.54	0.34	9.27	0.49
162	inlet 164	0.33	0.33	0.88	10.00	6.54	1.88	9.27	2.67
inlet 164	152	0.00	0.33	0.88	10.14	6.51	1.88	9.23	2.66
400	100	0.00	0.00	0.00	10.00	0.54	4.00	0.07	0.70
166	168	0.33	0.33	0.88	10.00	6.54	1.92	9.27	2.72
168	170	0.25	0.58	0.88	10.49	6.43	3.28	9.13	4.65
	112	0.00	0.58	0.88	10.86	6.35	3.28	9.02	4.60
170	112								
	174	0.35	0.35	0.88	10.00	6.54	2.03	9.27	2.88

	310		Q cap			Hv												IPUIAI		OR 21		RAINS	5121EIV	I A ADDI	SONG	SROVES						
					100								0	Q Avail	De Ita Q	Q req	Street / Alley /						HEA	D LOSS AT C	HANGEIN	SECTION				Elev Di	fference	
			DESIGN		ACTUAL	VELOCITY						DESIGN		223-201240-2012-0.00	Q100 -	112-13-14-15-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	and the second of the second second second	Frictional	UPST.	DNST.	V1	V2	100000000	Kj (Coeff. of		Kj (Coeff. of	Hj2	Hj El	ev of Hyd	And the state of the state	HGL	Comments
FROM	то	SLOPE	Q	Q 100	v	HEAD	FROM	то	Q ₁₀	REACH	SIZE	Q	Q 100	Q10	Q10	Q avail	Capacity	Slope	H.G.L.	H.G.L.	(Flow In)	(Flow Out	t) 2g 2g		(HL 1)	Loss) 2	(HL 2) 1	Total G	adeline	тс	TC-HGL	
MH	MH	(%)	(CFS)	(CFS)	(FPS)	(FT)	МН	MH	(CFS)		(IN)		CFS)	(CFS)	(CFS)		(CFS)	(FT / FT)	(FT)	(FT)	(fps)	(fps)	(fps) (fps)		(FT)	(const)		(FT)	(FT)	(FT)	(FT)	
100	102	0.177	4.4	1.03	0.58	0.01	100	102	0.73		18			3.70		-3.40	158.87		611.47		-	0.58	0.01 -	1.25	0.01				and the second second	616.16		Inlet at Beginning of Line
102 104	104 106	0.177	4.4 4.4	4.71 4.58	2.67 2.59	0.11 0.10	102 104	104 106	3.32 3.32		18 18	1.0.6.2/1.0.1		1.11 1.11	1.39 1.25	0.28	87.08 42.18		611.46 611.25		0.58	2.67 2.59	0.11 0.01 0.11		0.11 -0.01				INSUE TO A PARTY OF THE	616.05 616.48	1.	Inlet
104	100	0.177	4.4	7.32	4.14	0.10	104	100	5.15		18			-0.72		2.89	17.03			610.69	2.59	4.14	0.27 0.10		0.31				611.00	616.04		Incoming Opposing Flows
107	108	0.103	10.0	15.51	3.90	0.24	107	108	10.90					-0.93	4.61	5.55	39.72	0.0025		610.51	4.14	3.90	0.24 0.27	0.30	0.16	0.29	0.08			616.04		Manhole with Lateral + Pipe Enlargement
108	node 2	0.090	12.3	18.51	3.77	0.22	108	node 2	13.00		30	12.3		-0.66	5.51	6.17	55.94	0.0021		610.37	3.90	3.77	0.22 0.24		0.04	0.10	0.02		610.44	616.15		45° WYE + Pipe Enlargement
node 2	110	0.090	12.3	19.18		0.24 0.27	node 2	110	13.45			12.3		-1.12	5.72 15.59	6.84	63.34	0.0022	610.37 610.12		3.77 3.91	3.91 4.15	0.24 0.22 0.24 0.24		0.50	0.35	0.08		610.12 610.64	616.15 617.36		NONE
110 111	111 112	0.048	31.6 31.6	52.14 52.42		0.27	110 111	111 112	36.54			31.6 ±		-4.99 -5.16		20.39	65.63 39.14	0.0013	609.97	609.90	4.15	4.15	0.27 0.24		0.59 0.17	0.35				615.86		Incoming Opposing Flows + Pipe Enlargement Manhole with Lateral
112	114	0.048	31.6	56.04	4.46	0.31	112	114	39.23			39.9		0.69	16.82		245.17	0.0008		609.84	4.17	3.52	0.19 0.27		0.11					615.86		Manhole with Lateral
114	116	0.041	39.9	69.83	4.39	0.30	114	116	48.84			49.5			20.99		225.64		609.84	609.79	3.52	3.56	0.20 0.19		0.13	0.10	0.02			614.43		Manhole with Lateral + Pipe Enlargement
116 118	118 120	0.036	49.5 17.4	76.05 75.46	3.87 15.37	0.23 3.67	116 118	118 120	53.16 53.16			49.5 54.7			22.89 29.86		124.77 31.00	0.0009	609.79 609.75	609.75	3.56 3.87	3.87 16.91	0.23 0.20		0.17 4.37	0.10	0.02			613.37 612.27		Manhole with Lateral + Pipe Enlargement Manhole with Lateral
110	120	0.180	17.4	10.40	15.37	3.07	118	120				50.8			-30.68		31.00		609.65				2.51 4.44		4.37					612.27		Manhole with Lateral
inlet 304	111	0.177	4.4	0.56	0.32	0.00		120								20.00		0.0100		000101	10.01			0.00						U.L.L.	2.00	
							inlet 304	111	0.40	28	18	4.4	0.56	4.03	0.17	-3.87	75.78	0.0000	609.97	609.97	-	0.32	0.00 -	1.25	0.00			0.00	609.97	616.63	6.66	Inlet at Beginning of Line
inlet 306	111	0.177	4.4	0.86	0.49	0.00																										
	101	0.177		0.00			inlet 306	111	0.61	14	18	4.7	0.86	4.10	0.25	-3.85	51.90	0.0001	609.97	609.97	-	0.49	0.00 -	1.25	0.00			0.00	609.98	616.63	6.65	Inlet at Beginning of Line
122 124	124 126	0.177	4.4	0.63	0.36	0.00	122	124	0.44	51	18	4.4	0.63	3.99	0.19	-3 80	96.57	0.0000	611.23	611 22		0.36	0.00 -	1.25	0.00				611.23	616.24	5.01	Inlet at Beginning of Line
124	126	0.177	4.4	2.95	1.67	0.04	122	124	1.	51		4.4		2.35	0.19	-1.49	73.82		611.23	and the second sec	0.36	1.67	0.00 -		0.00				and a second state of the	616.00		Inlet
							126	106	2.08					2.35	0.84	-1.52	63.32		611.19		1.67	1.65	0.04 0.04		0.00					616.50		Inlet
128	inlet 310	·	4.4	4.65	2.63	0.11						ļ		Ser Manual								No. 1		a	La contra de la				-			
inlet 310	107	0.177	4.4	7.14	4.04	0.25	128	inlet 310		24	18			1.15	1.37	0.22	PARK		610.87		-	2.63	0.11 -	1.25	0.13			and the second se		615.00		Inlet at Beginning of Line
inlet 312	107	0.177	4.4	1.82	1.03	0.02	inlet 310	107	5.04	28	18	4.4	7.14	-0.60	2.10	2.71	32.49	0.0047	610.82	610.69	2.63	4.04	0.25 0.11	· ·	0.18			0.18	610.88	615.93	5.05	Inlet
iniet 012	107	0.111	4.4	1.02	1.00	0.02	inlet 312	107	1.29	15	18	4.4	1.82	3.14	0.54	-2.61	50.07	0.0003	610.70	610.69	-	1.03	0.02 -	1.25	0.02		i i	0.02	610.72	615,93	5.21	Inlet at Beginning of Line
130	node	0.177	4.4	0.31	0.18	0.00																										
node	134	0.177	4.4	1.21	0.68	0.01	130	node	0.22		18			4.21		-4.12	114.62			610.60	-	0.18	0.00 -	1.25	0.00					616.32		Inlet at Beginning of Line
134 136	136 108	0.177	4.4	3.45	1.95 1.93	0.06	node	134	0.85			4.4			0.36	-3.22	26.35		610.60			0.68	0.01 0.00	2	0.00				610.60			NONE
150	100	0.177	4.4	J.42	1.55	0.00	134 136	136 108	2.43	53 30	18	4.4	3.45	2.00	1.02 0.98	-0.98	69.64 58.66		610.60 610.55		0.68	1.95 1.93	0.06 0.01		0.06				610.60 610.51			Inlet
138	140	0.177	4.4	0.24	0.14	0.00	150	100	2.45	30		4.4	5.42	2.00	0.50	-1.02	30.00	0.0011	010.55	010.51	1.55	1.00	0.00 0.00		0.00			0.00	010.51	010.50	5.55	inet
140	node	0.177	4.4	0.90	0.51	0.00	inlet 308	node 2	0.71	21	18	4.4	1.00	3.72	0.30	-3.43	62.16	0.0001	610.37	610.37	-	0.57	0.01 -	1.25	0.01			0.01	610.38	616.71	6.33	Inlet at Beginning of Line
inlet 308	node 2	0.177	4.4	1.00	0.57	0.01																										
inier 500	HOUC Z	0.111	4.4	1.00	0.07	0.01	inlet 314	142	2.14			25.8			0.90		49.99		610.27		-	1.72	0.05 -	1.25	0.06				610.31			Inlet at Beginning of Line
inlet 314	142	0.177	4.4	3.04	1.72	0.05	142	110	2.99	18	18	25.8	4.24	22.81	1.25	-21.56	35.87	0.0016	610.15	610.12	1.72	2.40	0.09 0.05		0.06			0.06	610.18	617.70	7.52	Inlet
142	110	0.177	4.4	4.24	2.40	0.09	inlet 316	142	0.85	17	18	4.4	1.20	3.58	0.35	-3.23	55.24	0.0001	611.16	611,16	-	0.68	0.01 -	1.25	0.01		i i	0.01	611.17	617.54	6.37	Inlet at Beginning of Line
inlet 316	142	0.177	4.4	1.20	0.68	0.01													(7.1.1.1.1.1.1.7.)										84 85 84		<u> </u>	
iniet 510	142	0.111	4.4	1.20	0.00	0.01	144	146	11.11	24	30			1.23	4.64		PARK		610.96		-	3.21	0.16 -	1.25	0.20					618.54		Inlet at Beginning of Line
144	146	0.177	4.4	15.75		1.23	146	148	11.79				16.72			-8.29	219.40		610.91		3.21	3.41	0.18 0.16		0.03					615.82		Inlet
146	148	0.177	4.4	16.72		1.39	148 150	150 152	18.44			17.7 17.7		-0.74		8.48 8.19	59.94 34.93	0.0015	610.57 610.48	610.48	3.41 3.70	3.70 3.66	0.21 0.18		0.10					614.83 614.98		Inlet with Multiple Entering Flows
148 150	150 152	0.177	4.4 4.4	26.17 25.88	14.81 14.65	3.41 3.33	152	152	20.91			17.7		-3.22	8.80	12.02	30.33	0.0010	610.44	610.32	3.66	4.20	0.27 0.21		0.21	0.70	0.15		610.68			Manhole with Lateral + Change in Direction at Manhole
152	152	0.177	4.4	29.71	16.81	4.39	153	110	22.23			24.1				7.53	454.87		610.32			3.29	0.17 0.27		0.03				610.15			Pipe Enlargement
153	110	0.177	4.4	31.61	17.89	4.97																	1 1									
	450	0.477		4.00	0.75		inlet 318	153	0.94	32	18	4.4	1.33	3.49	0.39	-3.10	76.55	0.0002	610.32	610.32	-	0.75	0.01 -	1.25	0.01			0.01	610.33	614.43	4.10	Inlet at Beginning of Line
inlet 318	153	0.177	4.4	1.33	0.75	0.01	inlet 320	153	0.77	11	18	4.4	1.10	3.66	0.32	-3 33	46.60	0.0001	610.32	610.32	-	0.62	0.01 -	1.25	0.01		i i	0.01	610.32	614 43	4 11	Inlet at Beginning of Line
inlet 320	153	0.177	4.4	1.10	0.62	0.01	11101 020	100	0.11			4.4	1.10	0.00	0.02	0.00	40.00	0.0001	010.02	010.02		0.02	0.01	1.20	0.01			0.01	010.02	014.40	4.11	
		ļ.					inlet 322	154	0.53		18			3.90	0.22	-3.68	65.01	0.0001	610.45	610.45	-	0.42	0.00 -	1.25	0.00			0.00	610.46	614.00	3.54	Inlet at Beginning of Line
inlet 322	154	0.177	4.4	0.75	0.42	0.00	154	152	1.05	44	18	4.4	1.49	3.38	0.44	-2.94	86.38	0.0002	610.45	610.44	0.42	0.84	0.01 0.00	0.15	0.00			0.00	610.45	614.00	3.55	Manhole
154	152	0.177	4.4	1.49	0.84	0.01	intet 204	454	0.52	1 40			0.75	2.00		2.00	40.40	0.0001	C10 15	010.45		0.40		1 1 05				0.00	010.40	014.00	0.54	Internet Designing of Line
inlet 324	154	0.177	4.4	0.75	0.42	0.00	inlet 324	154	0.53	12	18	4.4	0.75	3.90	0.22	-3.68	49.10	0.0001	610.45	610.45	-	0.42	0.00 -	1.25	0.00			0.00	610.46	614.00	3.54	Inlet at Beginning of Line
					1		156	158	0.16	42	18	4.4	0.22	4.27	0.07	-4.21	100.03	0.0000	610.60	610.60	-	0.13	0.00 -	1.25	0.00	2	i i	0.00	610.60	616.49	5.89	Inlet at Beginning of Line
156	158	0.177	4.4	0.22	0.13	0.00	158	148	1.16	160	18	4.4		3.27	0.49	-2.78	234.83	0.0002			0.13	0.93	0.01 0.00		0.00				610.57	615.66	5.09	Manhole
158	148	0.177	4.4	1.65	0.93	0.01																										
160	158	0.177	4.4	0.49	0.27	0.00	160	158	0.34	31	18	4.4	0.49	4.09	0.14	-3.94	68.74	0.0000	610.61	610.60	-	0.27	0.00 -	1.25	0.00			0.00	610.61	615.92	5.31	Inlet at Beginning of Line
							162	inlet 164	1.00	44	18	9.4	2.67	7.54	0.79	-6.75	65.63	0.0007	610.51	610.49		1.51	0.04 -	1.25	0.04			0.04	610.52	614 70	1 10	Inlet at Reginning of Ling
162	inlet 164		4.4	2.67	1.51	0.04	inlet 164	152	1.88	44 56	18	9.4 4.4				-0.75	0.00	0.0007			- 1.51	1.51	0.04 -		0.04			0.04	610.52 610.44	615.00	4.10	Inlet at Beginning of Line Inlet
inlet 164	152	0.177	4.4	2.66	1.50	0.04												5.0000	2.0.40	5.5.14		1.00					u U					
166	168	0.177	4.4	2.72	1.54	0.04	166	168	1.92	73	18	4.4	2.72	2.51	0.80	-1.71	99.36	0.0007	610.14	610.09	-	1.54	0.04 -	1.25	0.05			0.05	610.14	616.40	6.26	Inlet at Beginning of Line
168	170	0.177	4.4	4.65	2.63	0.11 0.11	168 170	168 170 112	3.28	57	18	4.4	4.65	1.15	1.37	0.22	54.39 44.64	0.0020	610.09	609.98	1.54	2.63	0.11 0.04		0.09			0.09	610.07 609.89	616.40	6.33	Inlet
170	112	0.177	4.4	4.60	2.60	0.11	170	112	3.28	44	18	15.5	4.60	12.27	1.32	-10.95	44.64	0.0019	609.98	609.90	2.63	2.60	0.11 0.11	-	0.00			0.00	609.89	616.77	6.88	Inlet
170	174	0 177	11	2 00	1.60	0.04	172	174	2.03	49	18	4.4	2.88	2.40	0.85	-1.55	70.45	0.0008	609.88	609.85	-	1.63	0.04 -	1.25	0.05			0.05	609.90	613.80	3.90	Inlet at Beginning of Line
172 174	174 116	0.177	4.4 4.4	3.63	2.06	0.04 0.07	174	116	2.56	44	18	4.4	3.63	1.87	0.85 1.07	-0.80	55.17	0.0012	609.85	609.79	1.63	2.06	0.07 0.04	-	0.05			0.03	609.90 609.83	614.17	4.34	Inlet
				0.00	1 2.00			•																								

COMPUTATIONS FOR STORM DRAINS SYSTEM A ADDISON GROVES





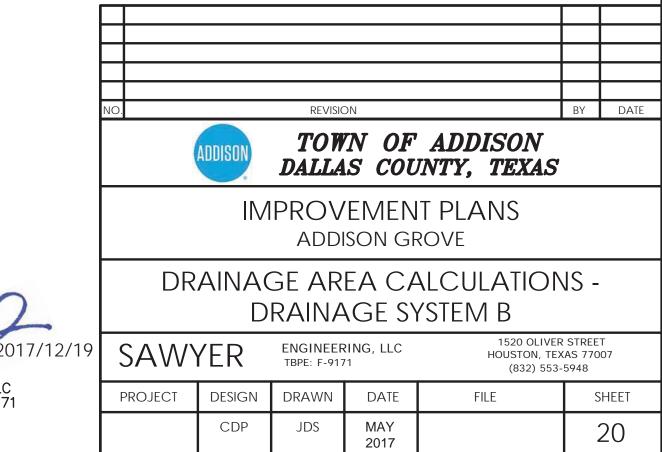
DRAINAGE AREA COMPUTATIONS - SYSTEM B

STORM PROFILES - SYSTEM B

[]r]]			[][r		J	J			Sf Q	cap Q	100 V	/ 100	H v					-)()(-				Street / Alley	. //							SECTION			Elev)()
FROM	то	AREA	TOTAL	c	тс		0		0	FROM	то		Q	0	ACTUAL	/ELOCITY HEAD	FROM	то	Q ₁₀ REA			Q ₁₀₀	design - Q	elta Q Q req 2100 - Delta Q Q10 Q avail	Detention	Frictional	UPST. H.G.L.	DNST.	V1		LOSS AT CH Kj (Coeff. c Loss) 1		Kj (Coeff. o	f Hj2	Hj Elev	of Hyd 7	/ Difference TC - HGL C TC-HGL	Comments
MH	мн	(AC)	(AC)		(MIN)	(IN/HR)	Q ₁₀ (CFS)	(IN/HR)	Q ₁₀₀ (CFS)	MH	мн		(CFS)	Q ₁₀₀ (CFS)	(FPS)	(FT)	MH	мн		T) (IN)			and the second	CFS) (CFS)	(CFS)	(FT / FT)		and the second se	(fps)	(fps) (fps) (fps)		(FT)		(FT) (F		T) (F1	the second s	
200	202	0.23	0.23	0.88	10.00	6.54	1.33	9.27	1.89	200	202	0.177	4.4	1.89	1.07	0.02	200	202	1.33 5	0 18	4.4	1.89	3.10 0	0.56 -2.54	81.63	0.0003	617.20	617.18	-	1.07 0.02 -	1.25	0.02		0	.02 61	7.20 623.	.88 6.68	Inlet at Beginning of Line
202	204	0.00	0.23	0.88	10.33	6.47	1.33	9.17	1.87	202	204	0.177	4.4	1.87	1.06	0.02	202	204	1.33 4	8 18	4.4	1.87	3.10 0	0.54 -2.56	75.98	0.0003	617.01	617.00	1.07	1.06 0.02 0.02	-	0.00		0	.00 61	7.00 624.	.35 7.35	Inlet
204	205	0.00	0.51	0.88	10.65	6.40	2.86	9.08	4.05	204	205	0.177	4.4	4.05	2.29	0.08	204	205	2.86 12	20 18	9.7	4.05	6.80 1	1.20 -5.60	119.84	0.0015	616.07	6 1 5.89	1.06	2.29 0.08 0.02	-	0.08		0	.08 61	5.97 623.	.67 7.70	Incoming Opposing Flows
205	206	0.00	1.04	0.88	11.02	6.32	5.77	8.97	8.19	205	206	0.177	4.4	8.19	4.64	0.33	205	206	5.77 4	9 21	23.6	8.19	17.79 2	2.42 -15.37	45.63	0.0027	615.38	615.25	2.29	3.41 0.18 0.08	0.36	0.15	0.10	0.01 0	.16 61	5.41 622.	.11 6.70	Manhole with Lateral + Pipe Enlargement
206	207	0.00	1.47	0.88	11.10	6.30	8.17	8.95	11.61	206	207	0.177	4.4	11.61	6.57	0.67	206	207	8.17 13	30 24	7.9	11.61	-0.28 3	3.43 3.72	76.28	0.0027	615.25	614.9 <mark>1</mark> 3	3.41	3.69 0.21 0.18	0.30	0. <mark>1</mark> 6	0.10	0.02 0	.18 61	5.09 621.	.64 6.55	Manhole with Lateral + Pipe Enlargement
207	208	0.00	2.48	0. <mark>8</mark> 8	11.96	6.13	13.35	8.71	18.99	207	208	0.177	4.4	18.99	10.74	1.79	207	208	13.35 5	0 30	12.3	18.99	-1.02 5	5.64 6.65	35. <mark>91</mark>	0.0022	614.91	614.80	3.69	3.87 0.23 0.21	0.10	0.02		0	.02 614	4.83 620.	.36 5.53	Pipe Enlargement
208	210	0.00	2.48	0.88	12.30	6.06	13.35	8.63	18.80	208	210	0.177	4.4	18.80	10.64	1.76	208	210	13.35 8	5 30	12.3	18.80	-1.02 5	5.45 6.46	51.45	0.0021	614.80	6 <mark>1</mark> 4.63	3.87	3.83 0.23 0.23	0.70	0.16		0	.16 614	4.79 620.	.65 5.86	Change in Direction at Manhole
210	212	0.00	2.97	0.88	12.86	5.96	15.58	8.48	22.19	210	212	0.177	4.4	22.19	12.56	2.45	210	212	15.58 11	18 33	14.0	22.19	-1.55	6.61 8.16	100.53	0.0018	614.63	614.42	3.83	3.74 0.22 0.23	0.10	0.02		0	.02 614	4.44 620.	.91 6.47	Pipe Enlargement
212	214	0.00	4.03	0.88	13.69	5.81	20.58	8.28	29.34	212	214	0.177	4.4	29.34	16.60	4.28	212	214	20.58 6	6 36	17.7	29.34	-2.89 8	8.76 11.65	29.83	0.0019	614.42	614.29	3.74	4.15 0.27 0.22	0.10	0.02		0	.02 614	4.31 621.	.59 7.28	Pipe Enlargement
214	216	0.00	4.03	0.88	14.13	5.73	20.58	8.18	28.98	214	216	0.177	4.4	28.98	16.40	4.18	214	216	20.58 3	5 36	17.7	28.98	-2.89 8	8.40 11.29	21.34	0.0019	614.23	614.17	4.15	4.10 0.26 0.27	0.47	0.12		0	.12 614	4.29 622.	.01 7.72	Change in Direction at Manhole
216	218	0.00	7.47	0.88	14.36	5.69	37.41	8.13	53.40	216	218	0.177	4.4	53.40	30.22	14.18	216	218	37.41 25	50 48	161.0	53.40	123.59 1	15.99 -107.60	50.71	0.0014	611.39	611.04	4.10	4.25 0.28 0.26	0.23	0.06	0.75	0.18 0	.25 61	1.29 622.	.10 10.81	Pipe Enlargement + 45° WYE
218	219	2.34	9.81	0.88	14.69	5.64	48.68	8.05	69.50	218	219	0.177	4.4	69.50	39.33	24.02	218	219	48.68 6	1 60	261.1	69.50	212.42 2	20.83 -191.60	234.99	0.0007	610.88	610.83	4.25	3.54 0.19 0.28	0.10	0.03		0	.03 610	0.86 618.	.33 7.47	Pipe Enlargement
219	220	0.38	10.19	0.88	14.77	5.63	50.45	8.04	72.05	219	220	0.177	4.4	72.05	40.77	25.81	219	220	50.45 3	3 60	261.1	72.05	210.65 2	21.60 -189.05	119.97	0.0008	610.83	610.81 :	3.54	3.67 0.21 0.19	0.30	0.15		0	.15 610	0.96 617.	.05 6.09	Manhole with Lateral
220	222	0.00	10.19	0.88	14.81	5.62	50.45	8.03	71.97	220	222	0.177	4.4	71.97	40.73	25.75	220	222	50.45 18	37 <u>6</u> 0	49.5	71.97	-0.91 2	21.52 22.43	553.83	0.0008	610.81	6 <mark>1</mark> 0.66	3.67	3.67 0.21 0.21	0.70	0.15	eg.	0	.15 610	0.81 616.	.55 5.74	Change in Direction at Manhole
222	118	0.00	10.19	0.88	16.04	5.43	50.45	7.77	69.63	<u>.</u>							222	118	50.45 39	90 72	71.0	69.63	20.59 1	19.18 -1.41	4495.10	0.0003	610.66	6 <mark>10.</mark> 56	3.67	2.46 0.09 0.21	0.15	0.01	Су. 	0	.01 610	0.57 616.	.55 5.98	Manhole
										inlet 350	205	0.177	4.4	1.89	1.07	0.02															1		ii ii					
inlet 350	205	0.14	0.14	0.88	10.00	6.54	0.80	9.27	1.13								inlet 350	205	0.80 2	9 18	4.4	1.13	3.63 0	0.33 -3.30	73.52	0.0001	615.88	615.88	-	0.64 0.01 -	1.25	0.01		0	.01 61	5.89 622.	.54 6.65	Inlet at Beginning of Line
<u> </u>	Ì		II		LI.			UI		224	226	0.177	4.4	0.95	0.54	0.00	224	226	0.67 4	5 18	12.9	0.95	12.23 (0.28 -11.94	94.44	0.0001	618.34	618.34	-	0.54 0.00 -	1.25	0.01	0	0	.01 61	3.34 625.	.01 6.67	Inlet at Beginning of Line
224	226	0.12	0.12	0.88	10.00	6.54	0.67	9.27	0.95	226	204	0.177	4.4	2.24	1.27	0.02	226	204	1.58 5	1 18	16.4	2.24	14.84 (0.66 -14.18	88.26	0.0005	617.02	617.00	0.54	1.27 0.02 0.00	-	0.02	~	0	.02 61		.36 7.34	
226	204	0.16	0.28	0.88	10.10	6.52	1.58	9.24	2.24																								2 6					
					5 (SE)			<u>II</u>		232	234	0.177	4.4	3.56	2.01	0.06	232	234	2.51 5	3 18	4.4	3.56	1.92 1	1.05 -0.87	65.80	0.0012	617.95	6 <mark>17.8</mark> 9	-	2.01 0.06 -	1.25	0.08	-	0	.08 61	7.97 622.	.10 4.13	Inlet at Beginning of Line
232	234	0.44	0.44	0.88	10.00	6.54	2.51	9.27	3.56	234	206	0.177	4.4	3.52	1.99	0.06	234	206	2.51 4	5 18	4.4	3.52	1.92 1	1.01 -0.91	58.36	0.0011	615.30	615.25	2.01	1.99 0.06 0.06	-	0.00		0	.00 61	5.25 622.	.47 7.22	Inlet
234	206	0.00	0.44	0.88	10.35	6.46	2.51	9.17	3.52					8-9-	25		236	238	1.36 13	32 18	4.4	1.93	3.07 (0.57 -2.50	PARK	0.0003	615.09	615.05	-	1.09 0.02 -	1.25	0.02	0		.02 61	5.07 618	.00 2.93	Inlet at Beginning of Line
										236	238	0.177	4.4	1.93	1.09	0.02	238	inlet 354		9 18		3.75		1.11 -0.69	PARK		615.05		1.09	2.12 0.07 0.02		0.02	-		.06 61		.00 2.97	Inlet
236	238	0.24	0.24	0.88	10.00	6.54	1.36	9.27	1.93		inlet 354	0.177	4.4	3.75	2.12	0.07	inlet 354	207		8 18		5.01		1.48 0.57	46.59	_	614.97			2.83 0.12 0.07		0.00				1.98 620.	- <u> </u>	Inlet
	inlet 354		0.47	0.88	10.88	6.35	2.64	9.01	3.75	inlet 354	207	0.177	4.4	5.01	2.83	0.12	Intel 334	201	5.52 2	0 10	4.4	5.01	0.91	1.40 0.57	40.09	0.0023	014.57	014.31	2.12	2.03 0.12 0.07		0.07	5. 		.07 01.	+.90 020.	.00 5.10	inet
inlet 354	207	0.17	0.64	0.88	11.27	6.27	3.52	8.90	5.01								inlet 356	207	2.09 1	5 18	4.4	2.97	2.34 0	0.87 -1.46	46.04	0.0008	614.92	614.91	-	1.68 0.04 -	1.25	0.05		0	.05 614	4.97 620.	.08 5.11	Inlet at Beginning of Line
	77 47-44									inlet 356	207	0.177	4.4	2.97	1.68	0.04													, i									
inlet 356	207	0.36	0.36	0.88	10.00	6.54	2.09	9.27	2.97								240	242		2 18		0.44		0.13 -3.99			615.29			0.25 0.00 -	1.25	0.00			.00 61		.16 6.87	
		0.000	0.00		10.00	0.01	2.00	0.21	2.01	240	242	0.177	4.4	0.44	0.25	0.00	242	244	1.20 0	9 18	4.4	1.75		0.52 -2.68	153.27	-	-			0.99 0.02 0.00	_	0.01	<u>0</u>	-	1		.87 6.84	Inlet
240	242	0.05	0.05	0.88	10.00	6.54	0.31	9.27	0.44	242	244	0.177	4.4	1.75	0.99	0.02	244	246	2.77 4	1 18	4.4	3.93		1.16 -0.50	53.59	_	614.90			2.23 0.08 0.02		0.07					.81 6.90	Inlet
242	244	0.16	0.22	0.88	10.21	6.49	1.23	9.21	1.75	244	246	0.177	4.4	3.93	2.23	0.08	246	210	2.77 3	1 18	10.5	3.90	7.76	1.13 -6.63	4 <u>1</u> .15	0.0014	614.67	6 <mark>14</mark> .63	2.23	2.21 0.08 0.08	-	0.00		0	.00 614	4.62 621.	.67 7.05	Inlet
242	244	0.10	0.50	0.88	10.21	6.35	2.77	9.01	3.93	244	210	0.177	4.4	3.90	2.23	0.08	248	250	0.55 5	3 18	4.4	0.78	3.88 0	0.23 -3.65	108.98	0.0001	619.62	619.62	-	0.44 0.00 -	1.25	0.00		0	.00 61	9.62 625.	.88 6.26	Inlet at Beginning of Line
244	240	0.20	0.50	0.88	11.14	6.29	2.77	8.94	3.90	210	210					5.00	250	252	1.04 13	39 18	12.0	1.48		0.44 -10.53			617.74		0.44	0.84 0.01 0.00		0.01		0			.76 9.04	Inlet with Multiple Entering Flows
2.10	210	0.00	0.00	0.00	11.17	0.20	2.11	0.04	0.00	248	250	0.177	44	0.78	0.44	0.00	252	254	2.82 16	51 18	11.7	4.01	8.90	1.18 -7.72	157.90	0.0015	615.85	615.62	0.84	2.27 0.08 0.01	-	0.08	-	0	.08 61	5.69 624.	.37 8.68	Inlet
248	250	0.10	0.10	0.88	10.00	6.54	0.55	9.27	0.78	240	250	0.177	4.4	1.48	0.44	0.00	254	212	5.84 5	1 21	25.1		61. To 48.0 21.1	2.45 -16.82	2007070- 200 8862960		614.56		TOTET CARAGE &	3.45 0.18 0.08	-	0.15		0			.76 8.19	Inlet
248	250	0.10	0.10	0.88		6.46	1.04	9.27	1.48	250	252	0.177	4.4		2.27	0.01																						
250	252	0.05	0.18	0.88	10.35 10.69	6.39	2.82	9.17	4.01	252	254		4.4		4.70	0.08	inlet 256	250	0.23 1	8 18	4.4	0.33	4.20 0	0.10 -4.10	55.43	0.0000	614.65	6 <mark>14</mark> .65	-	0.18 0.00 -	1.25	0.00		0	.00 614	4.65 620.	.08 5.43	Inlet at Beginning of Line
		0.32		-			5.84		8.30	204	212	0.177	4.4	0.30	4.70	0.04	Ex Inlet 1	Fx Inlet 2	921 5	6 24	50.9	13.06	41 65	3.85 -37.81	FY	0.0034	617.42	617 23	_	4.16 0.27 -	1.25	0.34	7		34 61	7 57 622	.63 5.06	Inlet at Beginning of Line
254	212	0.55	1.05	0.88	11.10	6.30	3.84	8.95	0.30	inlet 256	250	0.477	4.4	0.22	0.49	0.00	Ex Inlet 2		9.21 5 16.30 10		-		Polyania de la co	6.81 -61.21	100.00		615.59			4.10 0.27 - 3.89 0.24 0.27		0.08		-	ALCONTROL IN THE REAL		.90 5.42	Inlet
inlat 050	250	0.04	0.04	0.00	10.00	G EA	0.00	0.07	0.22	miet 256	200	0.177	4.4	0.33	0.18	0.00	258		19.69 7		87.9			8.23 -60.04			614.30			3.89 0.24 0.27 3.95 0.24 0.24		0.08					.90 5.42	
inlet 256	250	0.04	0.04	0.88	10.00	6.54	0.23	9.27	0.33	Exclusion of	External	0.477		12.00	7 20	0.05	200	210	10.00 1	. 50	01.9	21.01	00.20	00.04	+3.30	0.0010	014.00		5.05	0.00 0.24 0.24	0.10	0.02			.02 014	021.		
-	F _1 1 1 1	4.00	4.00	0.00	40.00	0.54	0.01	0.07	10.00	Ex Inlet 1						0.85																						
Ex Inlet 1				0.88	10.00	6.54	9.21	9.27	13.06	Ex Inlet 2		0.177	4.4		13.08	2.65																	H					
Ex Inlet 2	258	1.24	2.84	0.88	10.06	6.53	16.30	9.25	23.11	258	216	0.177	4.4	27.91	15.80	3.87																						
258	216	0.60	3.44	0.88	10.18	6.50	19.69	9.22	27.91																													
																																	NO			DEV	/ISION	BY DATE

COMPUTATIONS FOR STORM DRAINS SYSTEM B ADDISON GROVES





SAWYER ENGINEERING, LLC TBPE FIRM NUMBER F-9171

95885

HEET 10 -	PEARSON	BLOCK B / B	OCK A				OMPUTATIO			-					
						1	1		1		r				1
	INLET						-		STREET	STREET	STREET	INLET	INLET	INLET	INLET
INLET #	TYPE	NORTHING	EASTING	AREA	С	Тс	I ₁₀	Q ₁₀	SLOPE	XSLOPE	WIDTH	DEPRESSION	CAPACITY	LENGTH	CAPACITY
INLEI #	1165	NORTHING	EASTING		U		80	1.02177							
100	Orata	7022200 5	0470750.00	(AC)	0.89	(MIN)	(IN/HR)	(CFS)	(%)	(%)	(FT)	(FT)	(CFS/FT)	(FT)	(CFS)
100	Grate	7033366.5	2476756.66	0.13	0.88	10.00	6.54	0.73	0.50	2.80	24.00	0.34	0.89	5.19	4.63
102	Grate	7033366.5 7033366.95	2476852.15	0.46	0.88	10.00	6.54 6.54	2.67 0.00	0.72	3.72 0.36	24.00	0.45	1.36	5.19 5.19	7.05
104 128	Grate Grate	7033366.95	the time and the state of the state of the state of	0.00	0.88	10.00	6.54	3.28	2.86	2.86	24.00 PARK	0.02	0.01	5.19	8.25
120	Grate	7033482.81	CARDINAL SACIO CLAUDIORO	1.93	0.88	10.00	6.54	11.11	GRADE	EX	PARK	0.50	1.59	8.88	14.12
144	Grate	7033431.53		0.13	0.88	10.00	6.54	0.77	0.40	1.98	24.00	0.30	0.46	5.19	2.41
148	Grate	7033643.53		1.03	0.88	10.00	6.54	5.96	0.40	3.37	24.00	0.22	1.22	5.19	6.35
150	Grate	7033696.53		0.00	0.88	10.00	6.54	0.00	0.30	0.36	24.00	0.42	0.01	5.19	0.07
156	Grate	7033685.53	Contraction of the second second	0.03	0.88	10.00	6.54	0.16	1.98	0.36	24.00	0.02	0.01	5.19	0.07
158	Grate	7033643.53		0.12	0.88	10.00	6.54	0.67	1.98	2.80	24.00	0.02	1.31	5.19	6.81
160	Grate	7033612.03		0.06	0.88	10.00	6.54	0.34	0.36	0.93	24.00	0.08	0.10	5.19	0.53
162	Grate	7033819.03		0.33	0.88	10.00	6.54	1.88	0.62	2.50	24.00	0.30	0.74	5.19	3.84
164	Grate	7033771.53		0.00	0.88	10.00	6.54	0.00	0.00	0.00	24.00	0.00	0.00	5.19	0.00
166	Grate	7033822.53		0.33	0.88	10.00	6.54	1.92	0.83	3.33	24.00	0.40	1.14	5.19	5.91
168	Grate	7033895.03	and the second se	0.25	0.88	10.00	6.54	1.42	1.01	3.33	24.00	0.40	1.14	5.19	5.91
170	Grate	7033895.03	NET CALLOR FOR THAT THE THE REAL AND	0.00	0.88	10.00	6.54	0.00	0.03	0.65	24.00	0.03	0.02	5.19	0.12
172	Grate	7034031.03		0.35	0.88	10.00	6.54	2.03	0.83	3.33	24.00	0.40	1.14	5.19	5.91
174	Grate	7034031.03	2476958.66	0.10	0.88	10.00	6.54	0.56	0.03	0.65	24.00	0.03	0.02	5.19	0.12
I-312	Curb	7033462.81	2477017.16	0.22	0.88	10.00	6.54	1.29	0.59	2.30	43.00	0.50	1.29	6.00	7.73
I-310	Curb	7033462.81	2476975.16	0.31	0.88	10.00	6.54	1.78	0.59	2.30	43.00	0.50	1.29	8.00	10.31
I-308	Curb	7033595.67	2477017.16	0.12	0.88	10.00	6.54	0.71	0.59	2.30	43.00	0.50	1.29	4.00	5.15
I-306	Curb	7033836.75	2477017.16	0.11	0.88	10.00	6.54	0.61	0.97	2.30	43.00	0.50	1.29	4.00	5.15
I-304	Curb	7033836.75		0.07	0.88	10.00	6.54	0.40	0.97	2.30	43.00	0.50	1.29	4.00	5.15
I-302	Curb	7033970.55	2477017.16	0.00	0.88	10.00	6.54	0.00	1.53	2.30	43.00	0.50	1.29	4.00	5.15
I-300	Curb	7033970.55	2476975.16	0.00	0.88	10.00	6.54	0.00	3.53	2.30	43.00	0.50	1.29	4.00	5.15
I-298	Curb	7034016.25	2477017.16	0.56	0.88	10.00	6.54	3.22	2.50	2.30	43.00	0.50	1.29	12.00	15.46
HEET 11 &	12 - RUNY	ON													
		LET LOCATIO							1						1
	INLET							1	STREET	STREET	STREET	INLET	INLET	INLET	INLET
INLET #	TYPE	NORTHING	EASTING	AREA	С	Тс	I ₁₀	Q ₁₀	SLOPE	XSLOPE	WIDTH	DEPRESSION	CAPACITY	LENGTH	CAPACITY
				(AC)		(MIN)	(IN/HR)	(CFS)	(%)	(%)	(FT)	(FT)	(CFS/FT)	(FT)	(CFS)
I-324	Curb	7033721.03	2476680.67	0.09	0.88	10.00	6.54	0.53	1.41	2.30	43.00	0.50	1.29	4.00	5.15
I-322	Curb	7033747.03	2476680.67	0.09	0.88	10.00	6.54	0.53	1.41	2.30	43.00	0.50	1.29	4.00	5.15
I-320	Curb	7033713.03	2476803.16	0.13	0.88	10.00	6.54	0.77	1.09	2.30	43.00	0.50	1.29	4.00	5.15
I-318	Curb	7033755.03	2476803.16	0.16	0.88	10.00	6.54	0.94	1.09	2.30	43.00	0.50	1.29	4.00	5.15
I-316	Curb	7033712.04		0.15	0.88	10.00	6.54	0.85	1.40	2.30	43.00	0.50	1.29	4.00	5.15
I-314	Curb	7033738.04		0.37	0.88	10.00	6.54	2.14	1.40	2.30	43.00	0.50	1.29	8.00	10.31

Detention Calculations Modified Rational Method

100-Year Event

Q_{release}

Qtotal

 $\mathbf{Q}_{\mathsf{release}}$

SAM'S CLUB SITE = OFFSITE AREA (to Beltline) = TOTAL DRAINAGE STUDY AREA = 29.7 AC

17.4 AC 12.3 AC

x Sam's Pond	
rea	15.00 acres
ïme (T _c)	10.0 minutes
value	0.78
	9.27 in/hr

104.33 cfs

105.5 cfs

218.9 cfs

Proposed to Pond (Addison Grove)
Area	16.11 acres
Time (T _c)	10.0 minutes
Cvalue	0.88
I ₁₀₀	9.27 in/hr
Q ₁₀₀	132.00 cfs

Ex Bypass (Sam's + Offsite)	
Area	14.70 acres
Time (T _c)	10.0 minutes
C value	0.84
l	9.27 in/hr
Q ₂₅	114.6 cfs

Proposed Bypass (Add	lison Grove + Off-site)
Area	13.59 acres
Area Time (T _c) C value	10.0 minutes
C value	0.90
I ₁₀₀	9.27 in/hr
Q ₁₀₀	113.41 cfs

Runoff per Storm Event -	Proposed	k			INFLOW	OUTFLOW			STORAGE
torm Event Time (min.	I ₁₀₀	C value	Area (ac)	Runoff (cfs)	Inflow (ft ³)	Time	Release	Outflow (ft ³)	Storage (ft ³)
10	9.27	0.88	16.11	132.00	79,202	20.0	105.49	63,292	15,910
15	7.99	0.88	16.11	113.70	102,332	25.0	105.49	79,115	23,217
20	7.05	0.88	16.11	100.38	120,452	30.0	105.49	94,938	25,513
30	5.77	0.88	16.11	82.11	147,805	40.0	105.49	126,585	21,220
40	4.92	0.88	16.11	70.07	168,164	50.0	105.49	158,231	9,933
50	4.32	0.88	16.11	61.46	184,370	60.0	105.49	189,877	(5,507)
60	3.86	0.88	16.11	54.96	197,846	70.0	105.49	221,523	(23,677)
70	3.50	0.88	16.11	49.86	209,399	80.0	105.49	253,169	(43,771)
80	3.21	0.88	16.11	45.73	219,524	90.0	105.49	284,815	(65,291)
90	2.97	0.88	16.11	42.32	228,551	100.0	105.49	316,462	(87,911)
100	2.77	0.88	16.11	39.45	236,706	110.0	105.49	348,108	(111,402)
110	2.60	0.88	16.11	36.99	244,153	120.0	105.49	379,754	(135,601)
120	2.45	0.88	16.11	34.86	251,012	130.0	105.49	411,400	(160,388)
130	2.32	0.88	16.11	33.00	257,377	140.0	105.49	443,046	(185,669)
140	2.20	0.88	16.11	31.35	263,319	150.0	105.49	474,692	(211,373)

Impervious @ C = 1.00		13.61	Ac
Pervious (0% - 3% Slope) C = 0.25		2.50	Ac
	C _{weighted} =	0.88	

<u>INLET C</u>	OMPUTATIO	ONS ADDIS	<u>ON GROVE</u>	<u>S</u>					
	1		1						
			OTDEET	OTDEET	OTDEET	INU ET		DU ET	
Та		0	STREET	STREET	STREET	INLET		INLET	
Тс	10	Q ₁₀	SLOPE	XSLOPE	WIDTH	DEPRESSION	CAPACITY	LENGTH	CAPACITY
(MIN)	(IN/HR)	(CFS)	(%)	(%)	(FT)	(FT)	(CFS/FT)	(FT)	(CFS)
10.00	6.54	1.33	1.44	3.05	24.00	0.52	1.69	5.19	8.75
10.00	6.54	0.00	0.67	0.42	24.00	0.05	0.05	5.19	0.26
10.00	6.54	0.44	0.47	2.17	24.00	0.26	0.60	5.19	3.09
10.00	6.54	1.66	0.94	4.17	24.00	0.50	1.59	5.19	8.25
10.00	6.54	0.00	0.00	0.00	24.00	0.00	0.00	5.19	0.00
10.00	6.54	0.22	0.46	1.50	24.00	0.18	0.34	5.19	1.78
10.00	6.54	0.00	0.46	3.07	24.00	0.46	1.40	5.19	7.28
10.00	6.54	1.61	0.94	4.17	24.00	0.50	1.59	5.19	8.25
10.00	6.54	0.00	0.00	0.00	24.00	0.00	0.00	5.19	0.00
10.00	6.54	0.17	0.00	0.00	24.00	0.50	1.59	5.19	8.25
10.00	6.54	0.47	0.00	0.00	24.00	0.50	1.59	5.19	8.25
10.00	6.54	2.53	PARK	PARK	24.00	0.62	2.20	5.19	11.40
10.00	6.54	0.00	PARK	PARK	24.00	0.03	0.02	5.19	0.12
10.00	6.54	1.36	PARK	PARK	24.00	0.50	1.59	5.19	8.25
10.00	6.54	1.36	PARK	PARK	24.00	0.50	1.59	5.19	8.25
10.00	6.54	0.80	1.21	2.30	43.00	0.50	1.29	4.00	5.15
10.00	6.54	0.83	1.21	2.30	43.00	0.50	1.29	4.00	5.15
10.00	6.54	0.96	0.45	2.30	43.00	0.50	1.29	4.00	5. 1 5
10.00	6.54	2.09	0.45	2.30	43.00	0.50	1.29	8.00	10.31
			1						
			STREET	STREET	STREET	INLET	INLET	INLET	INLET
Тс	I ₁₀	Q ₁₀	SLOPE	XSLOPE	WIDTH	DEPRESSION	CAPACITY	LENGTH	CAPACITY
(MIN)	(IN/HR)	(CFS)	(%)	(%)	(FT)	(FT)	(CFS/FT)	(FT)	(CFS)
10.00	6.54	0.67	1.63	3.49	24.00	0.42	1.22	5.19	6.35
10.00	6.54	0.92	1.63	4.10	24.00	0.49	1.54	5.19	8.01
10.00	6.54	0.32	PARK	PARK	24.00	0.50	1.59	5.19	8.25
10.00	6.54	1.15	PARK	PARK	24.00	0.50	1.59	5.19	8.25
10.00	6.54	0.31	0.90	2.01	24.00	0.30	0.53	5.19	2.74
10.00	6.54	0.92	0.90	4.43	24.00	0.53	1.74	5.19	9.01
10.00	6.54	1.61	0.90	4.43	24.00	0.33	1.74	5.19	7.76
10.00	6.54	0.00	0.60	0.60	24.00	0.03	0.02	5.19	0.12
10.00	6.54	0.00	1.63	2.76	24.00	0.03	0.02	5.19	4.43
8 - S - S - S - S - S - S - S - S - S -	6.54		1.63		24.00	0.33			2022/01/22
10.00	6.54	0.29	1.63	2.04 3.60	24.00	0.25	0.56	5.19 5.19	2.92 6.58
							-		
10.00	6.54	3.17	1.57	4.14	24.00	0.50	1.59	5.19	8.25
10.00	6.54	0.23	1.63	0.99	24.00	0.20	0.40	5.19	2.09
10.00	6.54	1.78	2.36	2.30	43.00	0.50	1.29	8.00	10.31
10.00	6.54	1.73	2.36	2.30	43.00	0.50	1.29	6.00	7.73
10.00	6.54	1.21	1.80	2.30	43.00	0.50	1.29	6.00	7.73
10.00	6.54	0.98	1.80	2.30	43.00	0.50	1.29	4.00	5.15

	SMITH														
	11	NLET LOCATI	ON												
	INLET								STREET	STREET	STREET	INLET	INLET	INLET	INLET
INLET #	TYPE	NORTHING	EASTING	AREA	С	Тс	I ₁₀	Q ₁₀	SLOPE	XSLOPE	WIDTH	DEPRESSION	CAPACITY	LENGTH	CAPACITY
				(AC)		(MIN)	(IN/HR)	(CFS)		(%)	(FT)	(FT)	(CFS/FT)	(FT)	(CFS)
200	Grate	7033366 5	2477182.66	0.23	0.88	10.00	6.54	1.33	(%) 1.44	3.05	24.00	0.52	1.69	5.19	8.75
200	Grate	-	2477182.00	0.23	0.88	10.00	6.54	0.00	0.67	0.42	24.00	0.02	0.05	5.19	0.26
122	Grate	the second se	2477232.67	0.00	0.88	10.00	6.54	0.00	0.67	2.17	24.00	0.05	0.05	5.19	3.09
122	Grate	The second se	2477086.66	0.08	0.88	10.00	6.54	1.66	0.47	4.17	24.00	0.20	1.59	5.19	8.25
124	Grate		2477033.66	0.29	0.88	10.00	6.54	0.00	0.94	0.00	24.00	0.00	0.00	5.19	0.00
120	Grate		2477033.66	0.00	0.88	10.00	6.54	0.00	0.00	1.50	24.00	0.00	0.00	5.19	1.78
			2477086.66	0.04	0.88	10.00		0.22	0.46	3.07	24.00	0.18		5.19	7.28
132	Grate						6.54						1.40	<u>/</u>	8.25
134 136	Grate		2477086.66	0.28	0.88	10.00	6.54	1.61	0.94	4.17 0.00	24.00 24.00	0.50	1.59	5.19 5.19	0.00
	Grate	52	2477033.66 2477134.66			10.00	6.54	0.00	0.00			0.00	0.00		8.25
138 140	Grate Grate		2477134.66	0.03	0.88	10.00	6.54 6.54	0.17	0.00	0.00	24.00 24.00	0.50	1.59 1.59	5.19 5.19	8.25
		Contraction in the second	2477134.66	0.08	0.88	10.00		0.4100 CC20	PARK	PARK	24.00	0.50	2014-0406001 y	5.19	6 10 A C C C C C C C C C C C C C C C C C C
232 234	Grate	 C. C. P. S. C. S. P. C. C. S. S. C. S. C. S. C. S. C. S. S.	2477235.66	0.44	0.88	10.00	6.54 6.54	2.53 0.00	PARK	PARK	24.00	0.02	2.20 0.02	5.19	11.40 0.12
234	Grate Grate		2477235.66	0.00	0.88	10.00	6.54	1.36	PARK	PARK	24.00	0.03	1.59	5.19	8.25
238	Grate		2477187.64	0.24	0.88	10.00	6.54	1.36	PARK	PARK	24.00	0.50	1.59	5.19	8.25
I-350	Curb		2477252.16	0.24	0.88	10.00	6.54	0.80	1.21	2.30	43.00	0.50	1.39	4.00	5.15
1-352	Curb		2477294.16	0.14	0.88	10.00	6.54	0.80	1.21	2.30	43.00	0.50	1.29	4.00	5.15
1-352	Curb		2477252.16	0.14	0.88	10.00	6.54	0.85	0.45	2.30	43.00	0.50	1.29	4.00	5.15
1-354	Curb	A CONTRACTOR OF THE OWNER AND A CONTRACT	2477294.16	0.36	0.88	10.00	6.54	2.09	0.45	2.30	43.00	0.50	1.29	8.00	10.31
HEET 14 -	FOOR / BLO														[
		NLET LOCATI													
	INLET								STREET	STREET	STREET	INLET	INLET	INLET	INLET
INLET #	INLET			AREA	С	Тс	I ₁₀	Q ₁₀							
INLET #				AREA	С	Tc (MIN)	I ₁₀	Q ₁₀	SLOPE	XSLOPE	WIDTH	DEPRESSION	CAPACITY	LENGTH	CAPACITY
	INLET TYPE	NORTHING	EASTING	(AC)		(MIN)	(IN/HR)	(CFS)	SLOPE (%)	XSLOPE (%)	WIDTH (FT)	DEPRESSION (FT)	CAPACITY (CFS/FT)	LENGTH (FT)	CAPACITY (CFS)
224	INLET TYPE Grate	NORTHING 7033366.5	EASTING	(AC) 0.12	0.88	(MIN) 10.00	(IN/HR) 6.54	(CFS) 0.67	SLOPE (%) 1.63	XSLOPE (%) 3.49	WIDTH (FT) 24.00	DEPRESSION (FT) 0.42	CAPACITY (CFS/FT) 1.22	LENGTH (FT) 5.19	CAPACITY (CFS) 6.35
224 226	INLET TYPE Grate Grate	NORTHING 7033366.5 7033366.52	EASTING 2477375.66 2477330.67	(AC) 0.12 0.16	0.88 0.88	(MIN) 10.00 10.00	(IN/HR) 6.54 6.54	(CFS) 0.67 0.92	SLOPE (%) 1.63 1.63	XSLOPE (%) 3.49 4.10	WIDTH (FT) 24.00 24.00	DEPRESSION (FT) 0.42 0.49	CAPACITY (CFS/FT) 1.22 1.54	LENGTH (FT) 5.19 5.19	CAPACITY (CFS) 6.35 8.01
224 226 228	INLET TYPE Grate Grate Grate	NORTHING 7033366.5 7033366.52 7033447.56	EASTING 2477375.66 2477330.67 2477419.9	(AC) 0.12 0.16 0.05	0.88 0.88 0.88	(MIN) 10.00 10.00 10.00	(IN/HR) 6.54 6.54 6.54	(CFS) 0.67 0.92 0.29	SLOPE (%) 1.63 1.63 PARK	XSLOPE (%) 3.49 4.10 PARK	WIDTH (FT) 24.00 24.00 24.00	DEPRESSION (FT) 0.42 0.49 0.50	CAPACITY (CFS/FT) 1.22 1.54 1.59	LENGTH (FT) 5.19 5.19 5.19	CAPACITY (CFS) 6.35 8.01 8.25
224 226 228 230	INLET TYPE Grate Grate Grate Grate	NORTHING 7033366.5 7033366.52 7033447.56 7033447.55	EASTING 2477375.66 2477330.67 2477419.9 2477353.62	(AC) 0.12 0.16 0.05 0.20	0.88 0.88 0.88 0.88	(MIN) 10.00 10.00 10.00 10.00	(IN/HR) 6.54 6.54 6.54 6.54	(CFS) 0.67 0.92 0.29 1.15	SLOPE (%) 1.63 1.63 PARK PARK	XSLOPE (%) 3.49 4.10 PARK PARK	WIDTH (FT) 24.00 24.00 24.00 24.00	DEPRESSION (FT) 0.42 0.49 0.50 0.50	CAPACITY (CFS/FT) 1.22 1.54 1.59 1.59	LENGTH (FT) 5.19 5.19 5.19 5.19 5.19	CAPACITY (CFS) 6.35 8.01 8.25 8.25
224 226 228 230 240	INLET TYPE Grate Grate Grate Grate Grate	NORTHING 7033366.5 7033366.52 7033447.56 7033447.55 7033547.55	EASTING 2477375.66 2477330.67 2477419.9 2477353.62 2477332.66	(AC) 0.12 0.16 0.05 0.20 0.05	0.88 0.88 0.88 0.88 0.88 0.88	(MIN) 10.00 10.00 10.00 10.00 10.00	(IN/HR) 6.54 6.54 6.54 6.54 6.54	(CFS) 0.67 0.92 0.29 1.15 0.31	SLOPE (%) 1.63 1.63 PARK PARK 0.90	XSLOPE (%) 3.49 4.10 PARK PARK 2.01	WIDTH (FT) 24.00 24.00 24.00 24.00 24.00	DEPRESSION (FT) 0.42 0.49 0.50 0.50 0.24	CAPACITY (CFS/FT) 1.22 1.54 1.59 1.59 0.53	LENGTH (FT) 5.19 5.19 5.19 5.19 5.19 5.19	CAPACITY (CFS) 6.35 8.01 8.25 8.25 8.25 2.74
224 226 228 230 240 242	INLET TYPE Grate Grate Grate Grate Grate Grate	NORTHING 7033366.5 7033366.52 7033447.56 7033447.55 7033547.55 7033547.55	EASTING 2477375.66 2477330.67 2477419.9 2477353.62 2477332.66 2477364.68	(AC) 0.12 0.16 0.05 0.20 0.05 0.16	0.88 0.88 0.88 0.88 0.88 0.88 0.88	(MIN) 10.00 10.00 10.00 10.00 10.00 10.00	(IN/HR) 6.54 6.54 6.54 6.54 6.54 6.54	(CFS) 0.67 0.92 0.29 1.15 0.31 0.92	SLOPE (%) 1.63 1.63 PARK PARK 0.90 0.90	XSLOPE (%) 3.49 4.10 PARK PARK 2.01 4.43	WIDTH (FT) 24.00 24.00 24.00 24.00 24.00 24.00	DEPRESSION (FT) 0.42 0.49 0.50 0.50 0.50 0.24 0.53	CAPACITY (CFS/FT) 1.22 1.54 1.59 1.59 0.53 1.74	LENGTH (FT) 5.19 5.19 5.19 5.19 5.19 5.19 5.19	CAPACITY (CFS) 6.35 8.01 8.25 8.25 2.74 9.01
224 226 228 230 240 242 244	INLET TYPE Grate Grate Grate Grate Grate Grate Grate	NORTHING 7033366.5 7033366.52 7033447.56 7033447.55 7033547.55 7033547.55 7033646.54	EASTING 2477375.66 2477330.67 2477419.9 2477353.62 2477353.62 2477364.68 2477364.68	(AC) 0.12 0.16 0.05 0.20 0.05 0.16 0.28	0.88 0.88 0.88 0.88 0.88 0.88 0.88 0.88	(MIN) 10.00 10.00 10.00 10.00 10.00 10.00	(IN/HR) 6.54 6.54 6.54 6.54 6.54 6.54 6.54	(CFS) 0.67 0.92 0.29 1.15 0.31 0.92 1.61	SLOPE (%) 1.63 1.63 PARK PARK 0.90 0.90 0.90	XSLOPE (%) 3.49 4.10 PARK PARK 2.01 4.43 4.03	WIDTH (FT) 24.00 24.00 24.00 24.00 24.00 24.00 24.00	DEPRESSION (FT) 0.42 0.49 0.50 0.50 0.24 0.53 0.48	CAPACITY (CFS/FT) 1.22 1.54 1.59 1.59 0.53 1.74 1.50	LENGTH (FT) 5.19 5.19 5.19 5.19 5.19 5.19 5.19 5.19	CAPACITY (CFS) 6.35 8.01 8.25 8.25 2.74 9.01 7.76
224 226 228 230 240 242 244 244 246	INLET TYPE Grate Grate Grate Grate Grate Grate Grate Grate	NORTHING 7033366.5 7033366.52 7033447.56 7033447.55 7033547.55 7033547.55 7033646.54 7033687.54	EASTING 2477375.66 2477330.67 2477419.9 2477353.62 2477352.66 2477364.68 2477364.68 2477364.68	(AC) 0.12 0.16 0.05 0.20 0.05 0.16 0.28 0.00	0.88 0.88 0.88 0.88 0.88 0.88 0.88 0.88	(MIN) 10.00 10.00 10.00 10.00 10.00 10.00 10.00	(IN/HR) 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54	(CFS) 0.67 0.92 0.29 1.15 0.31 0.92 1.61 0.00	SLOPE (%) 1.63 1.63 PARK PARK 0.90 0.90 0.90 0.90 0.60	XSLOPE (%) 3.49 4.10 PARK PARK 2.01 4.43 4.03 0.60	WIDTH (FT) 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	DEPRESSION (FT) 0.42 0.49 0.50 0.50 0.24 0.53 0.48 0.03	CAPACITY (CFS/FT) 1.22 1.54 1.59 0.53 1.74 1.50 0.02	LENGTH (FT) 5.19 5.19 5.19 5.19 5.19 5.19 5.19 5.19	CAPACITY (CFS) 6.35 8.01 8.25 8.25 2.74 9.01 7.76 0.12
224 226 228 230 240 242 242 244 246 248	INLET TYPE Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate	NORTHING 7033366.5 7033366.52 7033447.56 7033447.55 7033547.55 7033547.55 7033646.54 7033687.54 7033366.5	EASTING 2477375.66 2477330.67 2477419.9 2477353.62 2477353.62 2477364.68 2477364.68 2477364.68 2477364.68 2477364.68	(AC) 0.12 0.16 0.05 0.20 0.05 0.16 0.28 0.00 0.10	0.88 0.88 0.88 0.88 0.88 0.88 0.88 0.88	(MIN) 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	(IN/HR) 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54	(CFS) 0.67 0.92 0.29 1.15 0.31 0.92 1.61 0.00 0.58	SLOPE (%) 1.63 1.63 PARK PARK 0.90 0.90 0.90 0.90 0.60 1.63	XSLOPE (%) 3.49 4.10 PARK PARK 2.01 4.43 4.03 0.60 2.76	WIDTH (FT) 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	DEPRESSION (FT) 0.42 0.49 0.50 0.50 0.24 0.53 0.48 0.03 0.33	CAPACITY (CFS/FT) 1.22 1.54 1.59 0.53 1.59 0.53 1.74 1.50 0.02 0.85	LENGTH (FT) 5.19 5.19 5.19 5.19 5.19 5.19 5.19 5.19	CAPACITY (CFS) 6.35 8.01 8.25 8.25 2.74 9.01 7.76 0.12 4.43
224 226 228 230 240 242 244 244 246 248 250	INLET TYPE Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate	NORTHING 7033366.5 7033366.52 7033447.56 7033447.55 7033547.55 7033547.55 7033646.54 7033646.54 703366.5 7033366.5	EASTING 2477375.66 2477330.67 2477419.9 2477353.62 2477352.66 2477364.68 2477364.68 2477364.68 2477482.68	(AC) 0.12 0.16 0.05 0.20 0.05 0.16 0.28 0.00 0.10 0.05	0.88 0.88 0.88 0.88 0.88 0.88 0.88 0.88	(MIN) 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	(IN/HR) 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54	(CFS) 0.67 0.92 0.29 1.15 0.31 0.92 1.61 0.00 0.58 0.29	SLOPE (%) 1.63 1.63 PARK PARK 0.90 0.90 0.90 0.90 0.60 1.63 1.63	XSLOPE (%) 3.49 4.10 PARK PARK 2.01 4.43 4.03 0.60 2.76 2.04	WIDTH (FT) 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	DEPRESSION (FT) 0.42 0.49 0.50 0.50 0.24 0.53 0.48 0.03 0.33 0.25	CAPACITY (CFS/FT) 1.22 1.54 1.59 1.59 0.53 1.74 1.50 0.02 0.85 0.56	LENGTH (FT) 5.19 5.19 5.19 5.19 5.19 5.19 5.19 5.19	CAPACITY (CFS) 6.35 8.01 8.25 8.25 2.74 9.01 7.76 0.12 4.43 2.92
224 226 228 230 240 242 244 246 248 248 250 252	INLET TYPE Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate	NORTHING 7033366.5 7033366.52 7033447.56 7033447.55 7033547.55 7033547.55 7033646.54 703366.5 7033366.5 7033366.5	EASTING 2477375.66 2477330.67 2477419.9 2477353.62 2477353.62 2477364.68 2477364.68 2477364.68 2477364.68 2477429.18 2477482.68 2477482.68	(AC) 0.12 0.16 0.05 0.20 0.05 0.16 0.28 0.00 0.10 0.05 0.32	0.88 0.88 0.88 0.88 0.88 0.88 0.88 0.88	(MIN) 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	(IN/HR) 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54	(CFS) 0.67 0.92 0.29 1.15 0.31 0.92 1.61 0.00 0.58 0.29 1.84	SLOPE (%) 1.63 1.63 PARK PARK 0.90 0.90 0.90 0.90 0.60 1.63 1.63 1.40	XSLOPE (%) 3.49 4.10 PARK PARK 2.01 4.43 4.03 0.60 2.76 2.04 3.60	WIDTH (FT) 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	DEPRESSION (FT) 0.42 0.49 0.50 0.50 0.24 0.53 0.48 0.03 0.33 0.25 0.43	CAPACITY (CFS/FT) 1.22 1.54 1.59 0.53 1.74 1.50 0.02 0.85 0.56 1.27	LENGTH (FT) 5.19 5.19 5.19 5.19 5.19 5.19 5.19 5.19	CAPACITY (CFS) 6.35 8.01 8.25 8.25 2.74 9.01 7.76 0.12 4.43 2.92 6.58
224 226 228 230 240 242 244 244 246 248 250 252 254	INLET TYPE Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate	NORTHING 7033366.5 7033366.52 7033447.56 7033447.55 7033547.55 7033547.55 7033646.54 7033646.54 703366.5 7033366.5 7033504.04 7033666.54	EASTING 2477375.66 2477330.67 2477419.9 2477353.62 2477353.62 2477364.68 2477364.68 2477364.68 2477464.68 2477482.68 2477482.68 2477482.68	(AC) 0.12 0.16 0.05 0.20 0.05 0.16 0.28 0.00 0.10 0.10 0.05 0.32 0.55	0.88 0.88 0.88 0.88 0.88 0.88 0.88 0.88	(MIN) 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	(IN/HR) 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54	(CFS) 0.67 0.92 0.29 1.15 0.31 0.92 1.61 0.00 0.58 0.29 1.84 3.17	SLOPE (%) 1.63 1.63 PARK PARK 0.90 0.90 0.90 0.90 0.90 0.60 1.63 1.63 1.63 1.40 1.57	XSLOPE (%) 3.49 4.10 PARK PARK 2.01 4.43 4.03 0.60 2.76 2.04 3.60 4.14	WIDTH (FT) 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	DEPRESSION (FT) 0.42 0.49 0.50 0.50 0.24 0.53 0.48 0.03 0.33 0.25 0.43 0.50	CAPACITY (CFS/FT) 1.22 1.54 1.59 1.59 0.53 1.74 1.50 0.02 0.85 0.56 1.27 1.59	LENGTH (FT) 5.19 5.19 5.19 5.19 5.19 5.19 5.19 5.19	CAPACITY (CFS) 6.35 8.01 8.25 8.25 2.74 9.01 7.76 0.12 4.43 2.92 6.58 8.25
224 226 228 230 240 242 244 246 248 250 252 254 256	INLET TYPE Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate	NORTHING 7033366.5 7033366.52 7033447.56 7033447.55 7033547.55 7033547.55 7033547.55 7033646.54 703366.54 7033366.5 7033504.04 7033666.54 7033366.54	EASTING 2477375.66 2477330.67 2477419.9 2477353.62 2477353.62 2477364.68 2477364.68 2477364.68 2477429.18 2477482.68 2477482.68 2477482.68 2477482.68 2477482.68	(AC) 0.12 0.16 0.05 0.20 0.05 0.16 0.28 0.00 0.10 0.05 0.32 0.55 0.04	0.88 0.88 0.88 0.88 0.88 0.88 0.88 0.88	(MIN) 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	(IN/HR) 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54	(CFS) 0.67 0.92 0.29 1.15 0.31 0.92 1.61 0.00 0.58 0.29 1.84 3.17 0.23	SLOPE (%) 1.63 1.63 PARK PARK 0.90 0.90 0.90 0.90 0.60 1.63 1.63 1.63 1.40 1.57 1.63	XSLOPE (%) 3.49 4.10 PARK PARK 2.01 4.43 4.03 0.60 2.76 2.04 3.60 4.14 0.99	WIDTH (FT) 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	DEPRESSION (FT) 0.42 0.49 0.50 0.50 0.24 0.53 0.48 0.03 0.33 0.25 0.43 0.50 0.20	CAPACITY (CFS/FT) 1.22 1.54 1.59 0.53 1.74 1.50 0.02 0.85 0.56 1.27 1.59 0.40	LENGTH (FT) 5.19 5.19 5.19 5.19 5.19 5.19 5.19 5.19	CAPACITY (CFS) 6.35 8.01 8.25 8.25 2.74 9.01 7.76 0.12 4.43 2.92 6.58 8.25 2.09
224 226 228 230 240 242 244 246 248 250 252 254 254 256 1-364	INLET TYPE Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Curb	NORTHING 7033366.5 7033366.52 7033447.56 7033447.55 7033547.55 7033547.55 7033646.54 7033687.54 703366.5 7033504.04 7033666.54 7033666.54 7033366.5 7034042.04	EASTING 2477375.66 2477330.67 2477419.9 2477353.62 2477353.62 2477364.68 2477364.68 2477364.68 2477482.68 2477482.68 2477482.68 2477482.68 2477482.68 2477513.18 2477560.52	(AC) 0.12 0.16 0.05 0.20 0.05 0.16 0.28 0.00 0.10 0.05 0.32 0.55 0.04 0.31	0.88 0.88 0.88 0.88 0.88 0.88 0.88 0.88	(MIN) 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	(IN/HR) 6.54 6.5	(CFS) 0.67 0.92 0.29 1.15 0.31 0.92 1.61 0.00 0.58 0.29 1.84 3.17 0.23 1.78	SLOPE (%) 1.63 1.63 PARK PARK 0.90 0.90 0.90 0.90 0.90 0.60 1.63 1.63 1.63 1.40 1.57 1.63 2.36	XSLOPE (%) 3.49 4.10 PARK PARK 2.01 4.43 4.03 0.60 2.76 2.04 3.60 4.14 0.99 2.30	WIDTH (FT) 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	DEPRESSION (FT) 0.42 0.49 0.50 0.50 0.24 0.53 0.48 0.03 0.33 0.25 0.43 0.25 0.43 0.50 0.20 0.50	CAPACITY (CFS/FT) 1.22 1.54 1.59 1.59 0.53 1.74 1.50 0.02 0.85 0.56 1.27 1.59 0.40 1.29	LENGTH (FT) 5.19 5.19 5.19 5.19 5.19 5.19 5.19 5.19	CAPACITY (CFS) 6.35 8.01 8.25 8.25 2.74 9.01 7.76 0.12 4.43 2.92 6.58 8.25 2.09 10.31
224 226 228 230 240 242 244 246 248 250 252 254 256	INLET TYPE Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate	NORTHING 7033366.5 7033366.52 7033447.56 7033447.55 7033547.55 7033547.55 7033547.55 7033646.54 7033646.54 703366.5 7033366.5 7033504.04 703366.54 703366.54 703366.54 7034042.04	EASTING 2477375.66 2477330.67 2477419.9 2477353.62 2477353.62 2477364.68 2477364.68 2477364.68 2477429.18 2477482.68 2477482.68 2477482.68 2477482.68 2477482.68	(AC) 0.12 0.16 0.05 0.20 0.05 0.16 0.28 0.00 0.10 0.05 0.32 0.55 0.04	0.88 0.88 0.88 0.88 0.88 0.88 0.88 0.88	(MIN) 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	(IN/HR) 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54	(CFS) 0.67 0.92 0.29 1.15 0.31 0.92 1.61 0.00 0.58 0.29 1.84 3.17 0.23	SLOPE (%) 1.63 1.63 PARK PARK 0.90 0.90 0.90 0.90 0.60 1.63 1.63 1.63 1.40 1.57 1.63	XSLOPE (%) 3.49 4.10 PARK PARK 2.01 4.43 4.03 0.60 2.76 2.04 3.60 4.14 0.99	WIDTH (FT) 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	DEPRESSION (FT) 0.42 0.49 0.50 0.50 0.24 0.53 0.48 0.03 0.33 0.25 0.43 0.50 0.20	CAPACITY (CFS/FT) 1.22 1.54 1.59 0.53 1.74 1.50 0.02 0.85 0.56 1.27 1.59 0.40	LENGTH (FT) 5.19 5.19 5.19 5.19 5.19 5.19 5.19 5.19	CAPACITY (CFS) 6.35 8.01 8.25 8.25 2.74 9.01 7.76 0.12 4.43 2.92 6.58 8.25 2.09

and the second second	SMITH														
1		NLET LOCATI	ON												
	INLET			-					STREET	STREET	STREET	INLET	INLET	INLET	INLET
INLET #	TYPE	NORTHING	EASTING	AREA	С	Тс	I ₁₀	Q ₁₀	SLOPE	XSLOPE	WIDTH	DEPRESSION	CAPACITY	LENGTH	CAPACITY
				(AC)		(MIN)	(IN/HR)	(CFS)	(%)	(%)	(FT)	(FT)	(CFS/FT)	(FT)	(CFS)
200	Grate	7033366.5	2477182.66	0.23	0.88	10.00	6.54	1.33	1.44	3.05	24.00	0.52	1.69	5.19	8.75
202	Grate	7033366.5	2477232.67	0.00	0.88	10.00	6.54	0.00	0.67	0.42	24.00	0.02	0.05	5.19	0.26
122	Grate		2477232.07	0.00	0.88	10.00	6.54	0.00	0.07	2.17	24.00	0.05	0.60	5.19	3.09
122	Grate	7033366.5	2477086.66	0.08	0.88	10.00	6.54	1.66	0.47	4.17	24.00	0.28	1.59	5.19	8.25
124	Grate	7033366.71	2477033.66	0.29	0.88	10.00	6.54	0.00	0.94	0.00	24.00	0.00	0.00	5.19	0.00
120	A CONTRACTOR OF A		2477033.66	0.00	0.88	10.00	6.54	0.00	0.00	1.50	24.00	0.00	0.00	5.19 5.19	1.78
130	Grate Grate		2477086.66	0.04	0.88	10.00	6.54	0.22	0.46	3.07	24.00	0.18		5.19	7.28
													1.40		
134	Grate		2477086.66	0.28	0.88	10.00	6.54	1.61	0.94	4.17	24.00	0.50	1.59	5.19	8.25
136	Grate		2477033.66	0.00	0.88	10.00	6.54	0.00	0.00	0.00	24.00	0.00	0.00	5.19	0.00
138	Grate	and the second	2477134.66	0.03	0.88	10.00	6.54	0.17	0.00	0.00	24.00	0.50	1.59	5.19	8.25
140	Grate	The second s	2477134.66	0.08	0.88	10.00	6.54	0.47	0.00	0.00	24.00	0.50	1.59	5.19	8.25
232	Grate		2477182.66	0.44	0.88	10.00	6.54	2.53	PARK	PARK	24.00	0.62	2.20	5.19	11.40
234	Grate		2477235.66	0.00	0.88	10.00	6.54	0.00	PARK	PARK	24.00	0.03	0.02	5.19	0.12
236	Grate		2477081.65	0.24	0.88	10.00	6.54	1.36	PARK	PARK	24.00	0.50	1.59	5.19	8.25
238	Grate		2477187.64	0.24	0.88	10.00	6.54	1.36	PARK	PARK	24.00	0.50	1.59	5.19	8.25
I-350	Curb		2477252.16	0.14	0.88	10.00	6.54	0.80	1.21	2.30	43.00	0.50	1.29	4.00	5.15
1-352	Curb	7033485.81	2477294.16	0.14	0.88	10.00	6.54	0.83	1.21	2.30	43.00	0.50	1.29	4.00	5.15
I-354	Curb	TANK MANAGEMENT CONTRACTOR	2477252.16	0.17	0.88	10.00	6.54	0.96	0.45	2.30	43.00	0.50	1.29	4.00	5.15
I-356	Curb	7033664.28	2477294.16	0.36	0.88	10.00	6.54	2.09	0.45	2.30	43.00	0.50	1.29	8.00	10.31
SHEET 14 -	FOOR / BLO														
	1								1						1
	1	NLET LOCATI	ON												
	1		ON						STREET	STREET	STREET	INLET	INLET	INLET	INLET
INLET #	11			AREA	С	Тс	I ₁₀	Q ₁₀	STREET SLOPE	STREET XSLOPE	STREET	INLET DEPRESSION	INLET CAPACITY	INLET LENGTH	INLET CAPACITY
INLET #	II INLET			1.152.7866.91. 78.295 5.555.555.55	С	2020			SLOPE	XSLOPE	WIDTH	DEPRESSION	CAPACITY	LENGTH	CAPACITY
	INLET TYPE		EASTING	(AC)		(MIN)	(IN/HR)	(CFS)	SLOPE (%)	XSLOPE (%)	WIDTH (FT)	DEPRESSION (FT)	CAPACITY (CFS/FT)	LENGTH (FT)	CAPACITY (CFS)
224	INLET TYPE Grate	NLET LOCATI NORTHING 7033366.5	EASTING 2477375.66	(AC) 0.12	0.88	(MIN) 10.00	(IN/HR) 6.54	(CFS) 0.67	SLOPE (%) 1.63	XSLOPE (%) 3.49	WIDTH (FT) 24.00	DEPRESSION (FT) 0.42	CAPACITY (CFS/FT) 1.22	LENGTH (FT) 5.19	CAPACITY (CFS) 6.35
224 226	INLET TYPE Grate Grate	NLET LOCATI NORTHING 7033366.5 7033366.52	EASTING 2477375.66 2477330.67	(AC) 0.12 0.16	0.88 0.88	(MIN) 10.00 10.00	(IN/HR) 6.54 6.54	(CFS) 0.67 0.92	SLOPE (%) 1.63 1.63	XSLOPE (%) 3.49 4.10	WIDTH (FT) 24.00 24.00	DEPRESSION (FT) 0.42 0.49	CAPACITY (CFS/FT) 1.22 1.54	LENGTH (FT) 5.19 5.19	CAPACITY (CFS) 6.35 8.01
224 226 228	INLET TYPE Grate Grate Grate	NLET LOCATI NORTHING 7033366.5 7033366.52 7033447.56	EASTING 2477375.66 2477330.67 2477419.9	(AC) 0.12 0.16 0.05	0.88 0.88 0.88	(MIN) 10.00 10.00 10.00	(IN/HR) 6.54 6.54 6.54	(CFS) 0.67 0.92 0.29	SLOPE (%) 1.63 1.63 PARK	XSLOPE (%) 3.49 4.10 PARK	WIDTH (FT) 24.00 24.00 24.00	DEPRESSION (FT) 0.42 0.49 0.50	CAPACITY (CFS/FT) 1.22 1.54 1.59	LENGTH (FT) 5.19 5.19 5.19	CAPACITY (CFS) 6.35 8.01 8.25
224 226 228 230	INLET TYPE Grate Grate Grate Grate	NLET LOCATI NORTHING 7033366.5 7033366.52 7033447.56 7033447.55	EASTING 2477375.66 2477330.67 2477419.9 2477353.62	(AC) 0.12 0.16 0.05 0.20	0.88 0.88 0.88 0.88	(MIN) 10.00 10.00 10.00 10.00	(IN/HR) 6.54 6.54 6.54 6.54	(CFS) 0.67 0.92 0.29 1.15	SLOPE (%) 1.63 1.63 PARK PARK	XSLOPE (%) 3.49 4.10 PARK PARK	WIDTH (FT) 24.00 24.00 24.00 24.00	DEPRESSION (FT) 0.42 0.49 0.50 0.50	CAPACITY (CFS/FT) 1.22 1.54 1.59 1.59	LENGTH (FT) 5.19 5.19 5.19 5.19 5.19	CAPACITY (CFS) 6.35 8.01 8.25 8.25
224 226 228 230 240	INLET TYPE Grate Grate Grate Grate Grate	NLET LOCATI NORTHING 7033366.5 7033366.52 7033447.55 7033547.55	EASTING 2477375.66 2477330.67 2477419.9 2477353.62 2477332.66	(AC) 0.12 0.16 0.05 0.20 0.05	0.88 0.88 0.88 0.88 0.88 0.88	(MIN) 10.00 10.00 10.00 10.00 10.00	(IN/HR) 6.54 6.54 6.54 6.54 6.54	(CFS) 0.67 0.92 0.29 1.15 0.31	SLOPE (%) 1.63 1.63 PARK PARK 0.90	XSLOPE (%) 3.49 4.10 PARK PARK 2.01	WIDTH (FT) 24.00 24.00 24.00 24.00 24.00	DEPRESSION (FT) 0.42 0.49 0.50 0.50 0.24	CAPACITY (CFS/FT) 1.22 1.54 1.59 1.59 0.53	LENGTH (FT) 5.19 5.19 5.19 5.19 5.19 5.19	CAPACITY (CFS) 6.35 8.01 8.25 8.25 2.74
224 226 228 230 240 242	INLET TYPE Grate Grate Grate Grate Grate Grate Grate	NLET LOCATI NORTHING 7033366.5 7033366.52 7033447.56 7033447.55 7033547.55 7033547.55	EASTING 2477375.66 2477330.67 2477419.9 2477353.62 2477332.66 2477364.68	(AC) 0.12 0.16 0.05 0.20 0.05 0.16	0.88 0.88 0.88 0.88 0.88 0.88 0.88	(MIN) 10.00 10.00 10.00 10.00 10.00 10.00	(IN/HR) 6.54 6.54 6.54 6.54 6.54 6.54	(CFS) 0.67 0.92 0.29 1.15 0.31 0.92	SLOPE (%) 1.63 1.63 PARK PARK 0.90 0.90	XSLOPE (%) 3.49 4.10 PARK PARK 2.01 4.43	WIDTH (FT) 24.00 24.00 24.00 24.00 24.00 24.00	DEPRESSION (FT) 0.42 0.49 0.50 0.50 0.24 0.53	CAPACITY (CFS/FT) 1.22 1.54 1.59 1.59 0.53 1.74	LENGTH (FT) 5.19 5.19 5.19 5.19 5.19 5.19 5.19	CAPACITY (CFS) 6.35 8.01 8.25 8.25 2.74 9.01
224 226 228 230 240 242 242 244	INLET TYPE Grate Grate Grate Grate Grate Grate Grate	NLET LOCATI NORTHING 7033366.52 7033447.55 7033447.55 7033547.55 7033547.55 7033646.54	EASTING 2477375.66 2477330.67 2477419.9 2477353.62 2477353.66 2477364.68 2477364.68	(AC) 0.12 0.16 0.05 0.20 0.05 0.16 0.28	0.88 0.88 0.88 0.88 0.88 0.88 0.88 0.88	(MIN) 10.00 10.00 10.00 10.00 10.00 10.00 10.00	(IN/HR) 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54	(CFS) 0.67 0.92 0.29 1.15 0.31 0.92 1.61	SLOPE (%) 1.63 1.63 PARK PARK 0.90 0.90 0.90	XSLOPE (%) 3.49 4.10 PARK PARK 2.01 4.43 4.03	WIDTH (FT) 24.00 24.00 24.00 24.00 24.00 24.00 24.00	DEPRESSION (FT) 0.42 0.49 0.50 0.50 0.24 0.53 0.48	CAPACITY (CFS/FT) 1.22 1.54 1.59 1.59 0.53 1.74 1.50	LENGTH (FT) 5.19 5.19 5.19 5.19 5.19 5.19 5.19 5.19	CAPACITY (CFS) 6.35 8.01 8.25 8.25 2.74 9.01 7.76
224 226 228 230 240 242 244 244 246	INLET TYPE Grate Grate Grate Grate Grate Grate Grate Grate Grate	NLET LOCATI NORTHING 7033366.5 7033366.52 7033447.56 7033447.55 7033547.55 7033547.55 7033646.54 7033687.54	EASTING 2477375.66 2477330.67 2477419.9 2477353.62 2477352.66 2477364.68 2477364.68 2477364.68	(AC) 0.12 0.16 0.05 0.20 0.05 0.16 0.28 0.00	0.88 0.88 0.88 0.88 0.88 0.88 0.88 0.88	(MIN) 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	(IN/HR) 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54	(CFS) 0.67 0.92 0.29 1.15 0.31 0.92 1.61 0.00	SLOPE (%) 1.63 1.63 PARK PARK 0.90 0.90 0.90 0.90 0.60	XSLOPE (%) 3.49 4.10 PARK PARK 2.01 4.43 4.03 0.60	WIDTH (FT) 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	DEPRESSION (FT) 0.42 0.49 0.50 0.50 0.24 0.53 0.48 0.03	CAPACITY (CFS/FT) 1.22 1.54 1.59 1.59 0.53 1.74 1.50 0.02	LENGTH (FT) 5.19 5.19 5.19 5.19 5.19 5.19 5.19 5.19	CAPACITY (CFS) 6.35 8.01 8.25 8.25 2.74 9.01 7.76 0.12
224 226 228 230 240 242 244 244 246 248	INLET TYPE Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate	NLET LOCATI NORTHING 7033366.5 7033447.55 7033447.55 7033547.55 7033547.55 7033646.54 7033687.54 7033366.5	EASTING 2477375.66 2477330.67 2477419.9 2477353.62 2477353.62 2477364.68 2477364.68 2477364.68 2477364.68 2477364.68	(AC) 0.12 0.16 0.05 0.20 0.05 0.16 0.28 0.00 0.10	0.88 0.88 0.88 0.88 0.88 0.88 0.88 0.88	(MIN) 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	(IN/HR) 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54	(CFS) 0.67 0.92 0.29 1.15 0.31 0.92 1.61 0.00 0.58	SLOPE (%) 1.63 1.63 PARK PARK 0.90 0.90 0.90 0.90 0.60 1.63	XSLOPE (%) 3.49 4.10 PARK PARK 2.01 4.43 4.03 0.60 2.76	WIDTH (FT) 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	DEPRESSION (FT) 0.42 0.49 0.50 0.50 0.50 0.24 0.53 0.48 0.03 0.33	CAPACITY (CFS/FT) 1.22 1.54 1.59 1.59 0.53 1.74 1.50 0.02 0.85	LENGTH (FT) 5.19 5.19 5.19 5.19 5.19 5.19 5.19 5.19	CAPACITY (CFS) 6.35 8.01 8.25 8.25 2.74 9.01 7.76 0.12 4.43
224 226 228 230 240 242 244 244 246 248 250	INLET TYPE Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate	NLET LOCATI NORTHING 7033366.5 7033366.52 7033447.56 7033447.55 7033547.55 7033547.55 7033547.55 7033646.54 7033687.54 7033366.5 7033366.5	EASTING 2477375.66 2477330.67 2477419.9 2477353.62 2477352.66 2477364.68 2477364.68 2477364.68 2477468.68	(AC) 0.12 0.16 0.05 0.20 0.05 0.16 0.28 0.00 0.10 0.05	0.88 0.88 0.88 0.88 0.88 0.88 0.88 0.88	(MIN) 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	(IN/HR) 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54	(CFS) 0.67 0.92 0.29 1.15 0.31 0.92 1.61 0.00 0.58 0.29	SLOPE (%) 1.63 1.63 PARK PARK 0.90 0.90 0.90 0.90 0.60 1.63 1.63	XSLOPE (%) 3.49 4.10 PARK PARK 2.01 4.43 4.03 0.60 2.76 2.04	WIDTH (FT) 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	DEPRESSION (FT) 0.42 0.49 0.50 0.50 0.24 0.53 0.48 0.03 0.33 0.25	CAPACITY (CFS/FT) 1.22 1.54 1.59 1.59 0.53 1.74 1.50 0.02 0.85 0.56	LENGTH (FT) 5.19 5.19 5.19 5.19 5.19 5.19 5.19 5.19	CAPACITY (CFS) 6.35 8.01 8.25 8.25 2.74 9.01 7.76 0.12 4.43 2.92
224 226 228 230 240 242 244 246 248 248 250 252	INLET TYPE Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate	NLET LOCATI NORTHING 7033366.5 7033366.52 7033447.55 7033547.55 7033547.55 7033646.54 7033687.54 7033687.54 7033366.5 7033366.5 7033504.04	EASTING 2477375.66 2477330.67 2477419.9 2477353.62 2477353.62 2477364.68 2477364.68 2477364.68 2477364.68 2477429.18 2477482.68 2477482.68	(AC) 0.12 0.16 0.05 0.20 0.05 0.16 0.28 0.00 0.10 0.05 0.32	0.88 0.88 0.88 0.88 0.88 0.88 0.88 0.88	(MIN) 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	(IN/HR) 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54	(CFS) 0.67 0.92 0.29 1.15 0.31 0.92 1.61 0.00 0.58 0.29 1.84	SLOPE (%) 1.63 1.63 PARK PARK 0.90 0.90 0.90 0.90 0.60 1.63 1.63 1.40	XSLOPE (%) 3.49 4.10 PARK PARK 2.01 4.43 4.03 0.60 2.76 2.04 3.60	WIDTH (FT) 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	DEPRESSION (FT) 0.42 0.49 0.50 0.50 0.50 0.24 0.53 0.48 0.03 0.33 0.25 0.43	CAPACITY (CFS/FT) 1.22 1.54 1.59 1.59 0.53 1.74 1.50 0.02 0.85 0.56 1.27	LENGTH (FT) 5.19 5.19 5.19 5.19 5.19 5.19 5.19 5.19	CAPACITY (CFS) 6.35 8.01 8.25 8.25 2.74 9.01 7.76 0.12 4.43 2.92 6.58
224 226 228 230 240 242 244 244 246 248 250 252 252 254	INLET TYPE Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate	NUET LOCATI NORTHING 7033366.5 7033366.52 7033447.56 7033547.55 7033547.55 703366.54 7033366.5 703366.54 7033366.5 7033366.5 7033504.04 7033666.54	EASTING 2477375.66 2477330.67 2477419.9 2477353.62 2477353.62 2477364.68 2477364.68 2477364.68 2477462.68 2477482.68 2477482.68	(AC) 0.12 0.16 0.05 0.20 0.05 0.16 0.28 0.00 0.10 0.05 0.32 0.55	0.88 0.88 0.88 0.88 0.88 0.88 0.88 0.88	(MIN) 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	(IN/HR) 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54	(CFS) 0.67 0.92 0.29 1.15 0.31 0.92 1.61 0.00 0.58 0.29 1.84 3.17	SLOPE (%) 1.63 1.63 PARK PARK 0.90 0.90 0.90 0.90 0.90 0.60 1.63 1.63 1.63 1.40 1.57	XSLOPE (%) 3.49 4.10 PARK PARK 2.01 4.43 4.03 0.60 2.76 2.04 3.60 4.14	WIDTH (FT) 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	DEPRESSION (FT) 0.42 0.49 0.50 0.50 0.24 0.53 0.48 0.03 0.33 0.25 0.43 0.50	CAPACITY (CFS/FT) 1.22 1.54 1.59 1.59 0.53 1.74 1.50 0.02 0.85 0.56 1.27 1.59	LENGTH (FT) 5.19 5.19 5.19 5.19 5.19 5.19 5.19 5.19	CAPACITY (CFS) 6.35 8.01 8.25 8.25 2.74 9.01 7.76 0.12 4.43 2.92 6.58 8.25
224 226 228 230 240 242 244 246 248 250 252 254 254 256	INLET TYPE Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate	NLET LOCATI NORTHING 7033366.5 7033366.52 7033447.55 7033547.55 7033547.55 7033547.55 7033646.54 7033687.54 703366.5 7033504.04 703366.54 703366.54	EASTING 2477375.66 2477330.67 2477419.9 2477353.62 2477353.62 2477364.68 2477364.68 2477364.68 2477429.18 2477482.68 2477482.68 2477482.68 2477482.68	(AC) 0.12 0.16 0.05 0.20 0.05 0.16 0.28 0.00 0.10 0.05 0.32 0.55 0.04	0.88 0.88 0.88 0.88 0.88 0.88 0.88 0.88	(MIN) 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	(IN/HR) 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54	(CFS) 0.67 0.92 0.29 1.15 0.31 0.92 1.61 0.00 0.58 0.29 1.84 3.17 0.23	SLOPE (%) 1.63 1.63 PARK PARK 0.90 0.90 0.90 0.90 0.60 1.63 1.63 1.40 1.57 1.63	XSLOPE (%) 3.49 4.10 PARK PARK 2.01 4.43 4.03 0.60 2.76 2.04 3.60 4.14 0.99	WIDTH (FT) 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	DEPRESSION (FT) 0.42 0.49 0.50 0.50 0.24 0.53 0.24 0.53 0.48 0.03 0.33 0.25 0.43 0.50 0.20	CAPACITY (CFS/FT) 1.22 1.54 1.59 1.59 0.53 1.74 1.50 0.02 0.85 0.56 1.27 1.59 0.40	LENGTH (FT) 5.19 5.19 5.19 5.19 5.19 5.19 5.19 5.19	CAPACITY (CFS) 6.35 8.01 8.25 8.25 2.74 9.01 7.76 0.12 4.43 2.92 6.58 8.25 2.09
224 226 228 230 240 242 244 244 246 248 250 252 254 255 254 256 1-364	INLET TYPE Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Carate Grate	NLET LOCATI NORTHING 7033366.52 7033366.52 7033447.55 7033547.55 7033547.55 7033547.55 7033646.54 703366.54 703366.5 7033504.04 703366.54 703366.54 703366.54	EASTING 2477375.66 2477330.67 2477330.67 2477353.62 2477353.62 2477364.68 2477364.68 2477364.68 2477482.68 2477482.68 2477482.68 2477482.68 2477513.18 2477500.52	(AC) 0.12 0.16 0.05 0.20 0.05 0.16 0.28 0.00 0.10 0.05 0.32 0.55 0.04 0.31	0.88 0.88 0.88 0.88 0.88 0.88 0.88 0.88	(MIN) 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	(IN/HR) 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54	(CFS) 0.67 0.92 0.29 1.15 0.31 0.92 1.61 0.00 0.58 0.29 1.84 3.17 0.23 1.78	SLOPE (%) 1.63 1.63 PARK PARK 0.90 0.90 0.90 0.90 0.90 0.90 0.60 1.63 1.63 1.63 1.40 1.57 1.63 2.36	XSLOPE (%) 3.49 4.10 PARK PARK 2.01 4.43 4.03 0.60 2.76 2.04 3.60 4.14 0.99 2.30	WIDTH (FT) 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	DEPRESSION (FT) 0.42 0.49 0.50 0.50 0.24 0.53 0.48 0.03 0.33 0.25 0.43 0.25 0.43 0.50 0.20 0.50	CAPACITY (CFS/FT) 1.22 1.54 1.59 1.59 0.53 1.74 1.50 0.02 0.85 0.56 1.27 1.59 0.40 1.29	LENGTH (FT) 5.19 5.19 5.19 5.19 5.19 5.19 5.19 5.19	CAPACITY (CFS) 6.35 8.01 8.25 8.25 2.74 9.01 7.76 0.12 4.43 2.92 6.58 8.25 2.09 10.31
224 226 228 230 240 242 244 246 248 250 252 254 255 254 256 1-364 1-362	INLET TYPE Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Curb	NUET LOCATI NORTHING 7033366.5 7033366.52 7033447.56 7033447.55 7033547.55 703366.54 703366.54 7033366.5 7033366.5 7033504.04 7033666.54 7033666.54 7033666.54 7033666.54 7033666.54 7033666.54 7034042.04 7034042.04	EASTING 2477375.66 2477330.67 2477419.9 2477353.62 2477353.62 2477364.68 2477364.68 2477364.68 2477429.18 2477482.68 2477482.68 2477482.68 2477482.68 2477513.18 2477560.52 2477586.52	(AC) 0.12 0.16 0.05 0.20 0.05 0.16 0.28 0.00 0.10 0.05 0.32 0.55 0.04 0.31 0.30	0.88 0.88 0.88 0.88 0.88 0.88 0.88 0.88	(MIN) 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	(IN/HR) 6.54 6.5	(CFS) 0.67 0.92 0.29 1.15 0.31 0.92 1.61 0.00 0.58 0.29 1.84 3.17 0.23 1.78 1.73	SLOPE (%) 1.63 1.63 PARK PARK 0.90 0.90 0.90 0.90 0.90 1.63 1.63 1.63 1.63 1.63 1.63 2.36	XSLOPE (%) 3.49 4.10 PARK PARK 2.01 4.43 4.03 0.60 2.76 2.04 3.60 4.14 0.99 2.30 2.30	WIDTH (FT) 24.00	DEPRESSION (FT) 0.42 0.49 0.50 0.50 0.24 0.53 0.24 0.53 0.48 0.03 0.33 0.25 0.43 0.25 0.43 0.50 0.20 0.50	CAPACITY (CFS/FT) 1.22 1.54 1.59 1.59 0.53 1.74 1.50 0.02 0.85 0.56 1.27 1.59 0.40 1.29 1.29	LENGTH (FT) 5.19 5.19 5.19 5.19 5.19 5.19 5.19 5.19	CAPACITY (CFS) 6.35 8.01 8.25 8.25 2.74 9.01 7.76 0.12 4.43 2.92 6.58 8.25 2.09 10.31 7.73
224 226 228 230 240 242 244 244 246 248 250 252 254 255 254 256 1-364	INLET TYPE Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Grate Carate Grate	NUET LOCATI NORTHING 7033366.5 7033366.52 7033447.55 7033547.55 7033547.55 703366.54 703366.5 703366.54 7033566.54 7033504.04 7033504.04 7033566.54 7033666.54 7033666.54 7034042.04 7033660.25	EASTING 2477375.66 2477330.67 2477330.67 2477353.62 2477353.62 2477364.68 2477364.68 2477364.68 2477482.68 2477482.68 2477482.68 2477482.68 2477513.18 2477500.52	(AC) 0.12 0.16 0.05 0.20 0.05 0.16 0.28 0.00 0.10 0.05 0.32 0.55 0.04 0.31	0.88 0.88 0.88 0.88 0.88 0.88 0.88 0.88	(MIN) 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	(IN/HR) 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54 6.54	(CFS) 0.67 0.92 0.29 1.15 0.31 0.92 1.61 0.00 0.58 0.29 1.84 3.17 0.23 1.78	SLOPE (%) 1.63 1.63 PARK PARK 0.90 0.90 0.90 0.90 0.90 0.90 0.60 1.63 1.63 1.63 1.40 1.57 1.63 2.36	XSLOPE (%) 3.49 4.10 PARK PARK 2.01 4.43 4.03 0.60 2.76 2.04 3.60 4.14 0.99 2.30	WIDTH (FT) 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	DEPRESSION (FT) 0.42 0.49 0.50 0.50 0.24 0.53 0.48 0.03 0.33 0.25 0.43 0.25 0.43 0.50 0.20 0.50	CAPACITY (CFS/FT) 1.22 1.54 1.59 1.59 0.53 1.74 1.50 0.02 0.85 0.56 1.27 1.59 0.40 1.29	LENGTH (FT) 5.19 5.19 5.19 5.19 5.19 5.19 5.19 5.19	CAPACITY (CFS) 6.35 8.01 8.25 8.25 2.74 9.01 7.76 0.12 4.43 2.92 6.58 8.25 2.09 10.31

* Extrapolated from FHWA-NHI-10-009 (HEC 22) Figure 4-11.

ADDITIONAL VOLUME IN STO	RM PIPES	
DRAINAGE SYSTEM "A"		3136 CF
DRAINAGE SYSTEM "B"		7224 CF
(including Box Culvert)		
TOTAL IN PIPES AND BOXES		10360 CF
VOLUME PROVIDED IN STRU	CTURAL SOIL	
LENGTH	4150	FT
WIDTH	5	FT
DEPTH	3	FT
	62250	CF
Per <u>Using Porous Asphalt and</u>	l CU-Structu	ral Soil®
Urban Horticulture Institute,	Cornell Univ	versity
"Reservoir depths of CU Strue 24" to 36" will mitigate betwe of rain in a 24 hour period" (2	een 6.25" an	
VOLUME MITIGATED		
6225	50 CF * 26% =	= 16185 CF
TOTAL DETENTION VOLUME	PROVIDED (C	CF)
	529 + 16185 =	

0.59 ac-ft



SAWYER ENGINEERING, LLC TBPE FIRM NUMBER F-9171

F												
NO).		REVISIO	ON		BY	DATE					
	TOWN OF ADDISON DALLAS COUNTY, TEXAS											
	IMPROVEMENT PLANS Addison grove											
				_,	ALCULATION CALCULATIC							
	SAW	/ER	ENGINEER TBPE: F-917		1520 OLIVER HOUSTON, TEX (832) 553-	(AS 770	-					
	PROJECT	FILE	S	HEET								
				21								

									DRAULIC	COM	017/110	INS //L																	<u></u>				ADDISOIN	OROVES							
-	INOFF	Distance				REMENTA			Accum-	Time	at Inte	nsity	Storm	Slope	Pipe	Velo	city Veloc	ity Flow	/ Time	at Hyd	raulic	Hydraulic		RUNOFF	Distance			REMENTA		Accum-	Time at	Intensity	and the second sec	Slope	Pipe		elocity Ve	alter a result To provide result		and the second second second second	Hydraulic
	TION POINT	Between	_			RAINAGE	6		ulated	Upstrea				of Hydraulic	Diamete							Grade Line		CTION POINT	Betwee			RAINAGE		ulated	Upstream	'I ₁₀ '	Water	of Hydraulio	c Diamete			ad at Tim			
	r Manhole)	Collection				AREA			'CA'	Static	on (in	/hr)	Runoff	Gradient			een Upstre	P. O. O.	Statio	and conversion	vation	Elevation		or Manhole)	Collectio		Droine a	AREA	f Incrementa	'CA'	Station	(in/hr)	Runoff	Gradient 'Sf'			tween Up			Elevation	1.0012 (001)
STATION	DOWNSTREAM STATION	Points	Ar		a inage Area	Coef		ncremental CA'		_			'Q ₁₀ '	'Sf'		Poir	ction Statio	on Sewe	er	Down	nstream	Upstream	STATION		VI Points		lo Area	Coeff	and the second sec				'Q ₁₀ '	51			Points	tation Sew	er	Downstream	n Upstream
		(ft)	-		(Acres) 'C'				(minut	tes)		(cfs)	(ft/ft)	(in)	'V' (1		(min)	(e	lev)	(elev)			(ft)		'A' (Acre				(minutes)		(cfs)	(ft/ft)	(in)			(ft) (mi	1)	(elev)	(elev)
100	102	95			0.13	0.88		0.11	0.11	10.00		54	0.73	0.00010	18	0.4	0.009	3.85		2.1	0.06	610.22	200	202	50		00 0.23	0.88	0.20	0.20	10.00	6.54	1.33	0.00033	18			.0164 1.1		617.19	617.27
102 104	104 106	107 45	10.5		0.46	0.88	8	0.41	0.52	10.63		40 20	3.32 3.32	0.00204	18	1.8	38 0.217 38 0.086	9 0.95 3 0.40	11.58	000 C C C C C C C C C C C C C C C C C C	9.82	610.03 609.69	202	204 205	48 120	20		0.88	0.00	0.20	10.33	6.47 6.40	1.33 2.86	0.00032	18			.0154 1.0	5 <u>11.39</u> 1 11.89	617.00 615.93	617.08 616.90
106	107	97	1	06	0.365	0.88		0.32	0.84	11.98	8 6.		5.15	0.00491	18	2.9				3 60	9.52	610.00	205	206	49	20	05 0.53	0.88	0.47	0.91	11.02	6.32	5.77	0.00270	21		2.40 0	.1323 0.3	11.36	614.91	615.89
107 108	108 node 2	72			1.10 0.43	0.88	8	0.97	1.81	12.53	3 6. 7 5	02	10.90	0.00253	27	2.7	4 0.182	0.44			9.40	609.58 609.39	206	207	<u>130</u>	20		0.88	0.38	1.30	11.10	6.30 6.13	8.17	0.00266	24	_	2.60 0	.3452 0.8	3 <u>11.93</u> 12.27	614.75 614.62	615.09 614.73
node 2	110	114	noc		0.12	0.88	8	0.11	2.30	13.42	2 5.	86	13.45	0.00220	30	2.7				1 60	9.09	609.34	208	210	85	20		0.88	0.00	2.18	12.30	6.06	13.35	0.00212	30		2.72 0	.1799 0.5	2 12.82	614.54	614.72
110 111	111 112	116		10 11	4.63	0.88	8	4.07 0.15	6.37	14.11		74 63	36.54	0.00132	48	2.9	0.153	0.66	14.78	200 Contract	9.35 8.97	609.50 609.05	210 212	212 214	118 66	21		0.88	0.44	2.62	12.86 13.69	5.96 5.81	15.58	0.00177	33		2.62 0 2.91 0	.2091 0.7	5 <u>13.61</u> 3 <u>14.07</u>	614.37 614.30	614.58 614.43
112	112	78			0.58	0.88	8	0.51	7.03	15.09		58	39.23	0.00082	54	2.4		6 0.53	15.62		8.81	608.88	214	216	35	21	14 0.00	0.88	0.00	3.54	14.13	5.73	20.58	0.00190	36		2.91 0	.0665 0.2) 14.33	614.23	614.30
114	116	58			2.11	0.88		1.85	8.89	15.62		49	48.84	0.00072	60	2.4					8.81 8.81	608.85	216 218	218 219	250	21		0.88	3.03	6.57 8.63	14.36 14.69	5.69 5.64	37.41 48.68	0.00139	48	_	2.98 0 2.48 0	.3470 1.4 .0436 0.4	0 15.76 I 15.10	611.28 610.45	614.17 610.49
116 118	118 120	49 27			1.01	0.88		0.89	9.78	16.3		44 39	53.16 53.16	0.00086	30	2.7					7.81	608.85 608.92	219	220	33	21	19 0.38	0.88	0.33	8.96	14.03	5.63	50.45	0.00077	60		2.57 0	.0253 0.2	14.98	610.08	610.10
					0.07			0.00				54	0.40	0.00000								000.07	220 222	222	187 390	22		0.88	0.00	8.96 8.96	14.81 16.04	5.62 5.43	50.45 50.45	0.00077	60			.1432 1.2 .1056 3.6		609.91 608.81	610.05 609.14
inlet 304	111	28	inlet		0.07	0.88		0.06	0.06	10.00		54	0.40	0.00003	18	0.2					8.93	608.97		005	390	ļ,									12						
inlet 306	111	14	inlet	t 306	0.11	0.88	8	0.09	0.09	10.00	0 6.	54	0.61	0.00007	18	0.3			10.68		8.93	608.94	inlet 350	205	29		t 350 0.14	0.88		0.12	10.00	6.54	0.80	0.00012	18			.0034 1.0		615.89	1
122	124 126	51			0.08	0.88	8	0.07	0.07	10.00			0.44 2.08	0.00004	18	0.2			0.8510.8515.64		9.94 9.75	610.03 609.84	inlet 352	205	15	inlet	t 352 0.39	0.88	0.34	0.34	10.27	6.48	2.23	0.00000	18		1.26 0	.0000 0.2) 10.47	615.07	615.80
124 126	106	31			0.00	0.88	8	0.00	0.32	10.68			2.08	0.00078	18	1.1		1 0.44			9.60	609.64	224 226	226	45	22	24 0.12	0.88	0.10	0.10	10.00	6.54 6.52	0.67	0.00008	18		0.38 0 0.89 0	.0037 1.9	7 11.97 5 11.05	618.34 617.01	619.01 618.24
128 inlet 310	inlet 310 107	24	1: inlet	28 t 310	0.57	0.88	8	0.50	0.50	10.00		54 51	3.28 5.04	0.00198	18 18	1.8	36 0.047 35 0.130	0.22 08 0.16	10.22	2 60 2 60	9.50	609.55 609.59	232	234	53	23	32 0.44	0.88		0.38	10.00	6.54	2.51	0.00116	18		1.42 0	.0615 0.6	2 10.62	617.93	617.99
inlet 312	107	15	inlet	t 312	0.22	0.88	8	0.20	0.20	10.00	0 6.	54	1.29	0.00031	18	0.7				ļ.	9.38	609.39	234	206	45	23	34 0.00	0.88	0.00	0.00	10.35	6.46	2.51	0.00113	18		1.42 0 1.42 0	.0510 0.5	3 10.88	614.83	614.89
130	node	60	1		0.04	0.88		0.03	0.03	10.00		54	0.22	0.00001	18	0.1					9.71	609.82	236 238	238 inlet 354	132 59		36 0.24 38 0.24	0.88	0.21	0.21	10.00 10.88	6.54 6.35	1.36 2.64	0.00034			0.77 0. 1.49 0	.0449 2.8 .0758 0.6	12.86 11.54	615.02 614.83	615.24 614.91
node	134	9	nc	ode	0.11	0.88	8	0.10	0.13	10.40	0 6.	45	0.85	0.00013	18	0.4	18 0.001	2 0.31	10.7	1 60	9.70	609.71	inlet 354	207	28	inlet	t 354 0.17	0.88	0.15	0.56	11.27	6.27	3.52	0.00230	18		1.99 0	.0643 0.2	3 11.50	614.70	614.76
134 136	136 108	53 30		34 36	0.28	0.88	8 8	0.25	0.38	10.46	6 6. 1 6.	44 36	2.43 2.43	0.00109	18 18	1.3	38 0.057 38 0.032	9 0.64 1 0.36			9.42 9.28	609.49 609.31	inlet 356	207	15	inlet	t 356 0.36	0.88	0.32	0.32	10.00	6.54	2.09	0.00081	18		1.18 0	.0121 0.2	I 10.21	614.69	614.70
inlet 308	node 2	21	inlet	t 308	0.12	0.88	8	0.11	0.11	10.00	0 6.	54	0.71	0.00009	18	0.4	0.001	9 0.87	10.8	7 60	9.21	609.22	240	242	32		40 0.05 42 0.16	0.88	0.05	0.05	10.00	6.54	0.31	0.00002	18			.0006 3.0 .0277 2.3		615.29 615.02	615.34 615.19
inlet 314	142	19		t 314	0.37	0.88	8	0.33	0.33	10.00	0 6.	54	2.14	0.00085	18	1.2	0.016	0.26	10.26		0.28	611.38	242 244	244 246	41	24	44 0.28	0.88	0.25	0.19 0.44	10.21 10.87	6.49 6.35	1.23 2.77	0.00142	18		1.57 0	.0581 0.4	11.31	614.87	614.93
142	110	18	1.	42	0.15	0.88	8	0.13	0.46	10.02	2 6.	54	2.99	0.00165	18	1.6	69 0.029	0.18	10.20	0 60	9.10	610.15	246	210	31	24	46 0.00	0.88	0.00	0.44	11.14	6.29	2.77	0.00139	18		1.57 0	.0432 0.3	3 11.47	614.43	614.74
inlet 316	142	17	inlet	316	0.15	0.88	8	0.13	0.13	10.00	0 6.	54	0.85	0.00013	18	0.4	18 0.002	0.59	10.59	9 61	1.16	611.19	248 250	250 252	53 139	24	48 0.10 50 0.09	0.88	0.08	0.08	10.00	6.54 6.46	0.55	0.00006	18		0.31 0	.0029 2.8 .0278 3.9	5 12.85 3 14.28	619.62 617.72	619.71 619.52
144	146	31	1	44	1.93	0.88	8	1.70	1.70	10.00	0 6.	54	11.11	0.00149	30	2.2	0.046	0 0.23	10.23	3 60	9.87	609.92	252	254	161	25	52 0.32	0.88	0.28	0.44	10.69	6.39	2.82	0.00147	18	1.4	1.60 0	.2371 1.6	3 12.37	615.65	617.61
146	148	210			0.13	0.88		0.12	1.82	10.21			11.79	0.00167	30	2.4		6 1.46			9.32	609.68	254	212	51	25	54 0.55	0.88	0.48	0.93	11.10	6.30	5.84	0.00277	21		2.43 0	.1413 0.3	5 11.45	614.41	615.62
148 150	150 152	27		48 50	0.00	0.88		1.09	2.91 2.91	10.89			18.44 18.44	0.00155	36	2.6			11.23		9.29 9.25	609.37 609.29	inlet 256	250	18	inlet	t 256 0.04	0.88	0.04	0.04	10.00	6.54	0.23	0.00000	18		0.13 0	.0000 2.3	12.30	614.65	614.65
152	153	65	1	52	0.51	0.88	8	0.45	3.35	11.43	3 6.	24	20.91	0.00200	36	2.9	0.129	0.37	11.79	9 60	9.36	609.49	Ex lplot 1	Ex Inlat 2	50	Ev In	nlot 1 1 60	0.00	1 41	1 41	10.00	6.54	0.21	0.00226	24		202 0	1000 0.0	10.22	610 15	620.05
153	110	196	1	53	0.30	0.88	8	0.26	3.62	11.86	6 6.	15	22.23	0.00099	42	2.3	0.194	5 1.41	13.2	7 60	9.10	609.30	Ex Inlet 1 Ex Inlet 2	Ex Inlet 2 258	56	Ex In Ex In	nlet 1 1.60 nlet 2 1.24	0.88		1.41 2.50	10.00	6.54 6.53	9.21 16.30	0.00336	24		2.93 0. 2.74 0.	.1882 0.3	2 10.32 2 10.68	618.15 615.44	
inlet 318	153	32	inlet	t 318	0.16	0.88	8	0.14	0.14	10.00	0 <mark>6</mark> .	54	0.94	0.00016	18	0.5	0.005	2 1.01	11.0	1 60	9.19	609.20	Ex Inlet 2 258	258 216	71	Ex In 25	58 0.60	0.88	0.53	3.03	10.18	6.53 6.50	19.69	0.00176	36		2.79 0	.1961 0.6 .1251 0.4	2 10.68 2 10.60	615.44 614.18	617.98 615.40
inlet 320	153	11	inlet	t 320	0.13	0.88	8	0.12	0.12	10.00	0 6.	54	0.77	0.00011	18	0.4	4 0.001	2 0.42	10.42	2 60	9.19	609.19																			
inlet 322 154	154 152	22	inlet 1	322 54	0.09	0.88	8	0.08	0.08	10.00	0 <u>6</u> . 5 6	54 51	0.53	0.00005	18	0.3	0.001	1 1.23	11.2	3 60 3 60	9.25	609.26 609.26																			
inlet 324	152		inlet		0.09	0.88	8	0.08	0.08	10.10			0.53	0.00005	18	0.3					9.25	609.25																			
156	158	42		1	0.03	0.88	8	0.02	0.02	10.00		54	0.16	0.00000	18	0.0) 17.90		9.33	609.33																			
158	148	160			0.18	0.88	8	0.16	0.18	10.28		48	1.16	0.00025	18	0.6	6 0.039			ļ.	9.31	609.35																			
160	158	31			0.06	0.88	8	0.05	0.05	10.00	0 6.	54	0.34	0.00002	18	0.1					9.33	609.33																			
162 164	164 152	44 56			0.33 0.00	0.88		0.29 0.00	0.29	10.00		54 51	1.88 1.88	0.00065	18 18	1.0		0.69 2 0.88			9.29 9.25	609.32 609.28																			
166	168	73			0.33	0.88	8	0.29	0.29	10.00	0 6.	54	1.92	0.00068	18	1.0	0.049	1.12	11.12	2 61	0.08	610.19 610.02																<u>م</u>	DE VU		
168 170	170 112	57 44		68 70	0.25	0.88	8	0.22	0.51	10.49			3.28 3.28	0.00198	18 18	1.8		0.51 0.39	11.00	0 60 6 60	9.90 8.80	610.02 609.76																	TE OF TETT	b	
170	174	40		70	0.25	0.00	0 1	0.24	0.24	10.00		54	2.02	0.00070	10		5 0.007	1 0.74	40.7	1 00	0 70	609.92																			
172 174	114	49 44	1	72 74	0.35	0.88	8	0.09	0.31 0.40	10.00	3 6.	54 47	2.03 2.56	0.00076 0.00121	18	1.1	15 0.037 15 0.053	1 0.71 3 0.51	10.7	3 60	8.75	608.83 608.81																CAR	IEN D. PEARSON 95885	2	

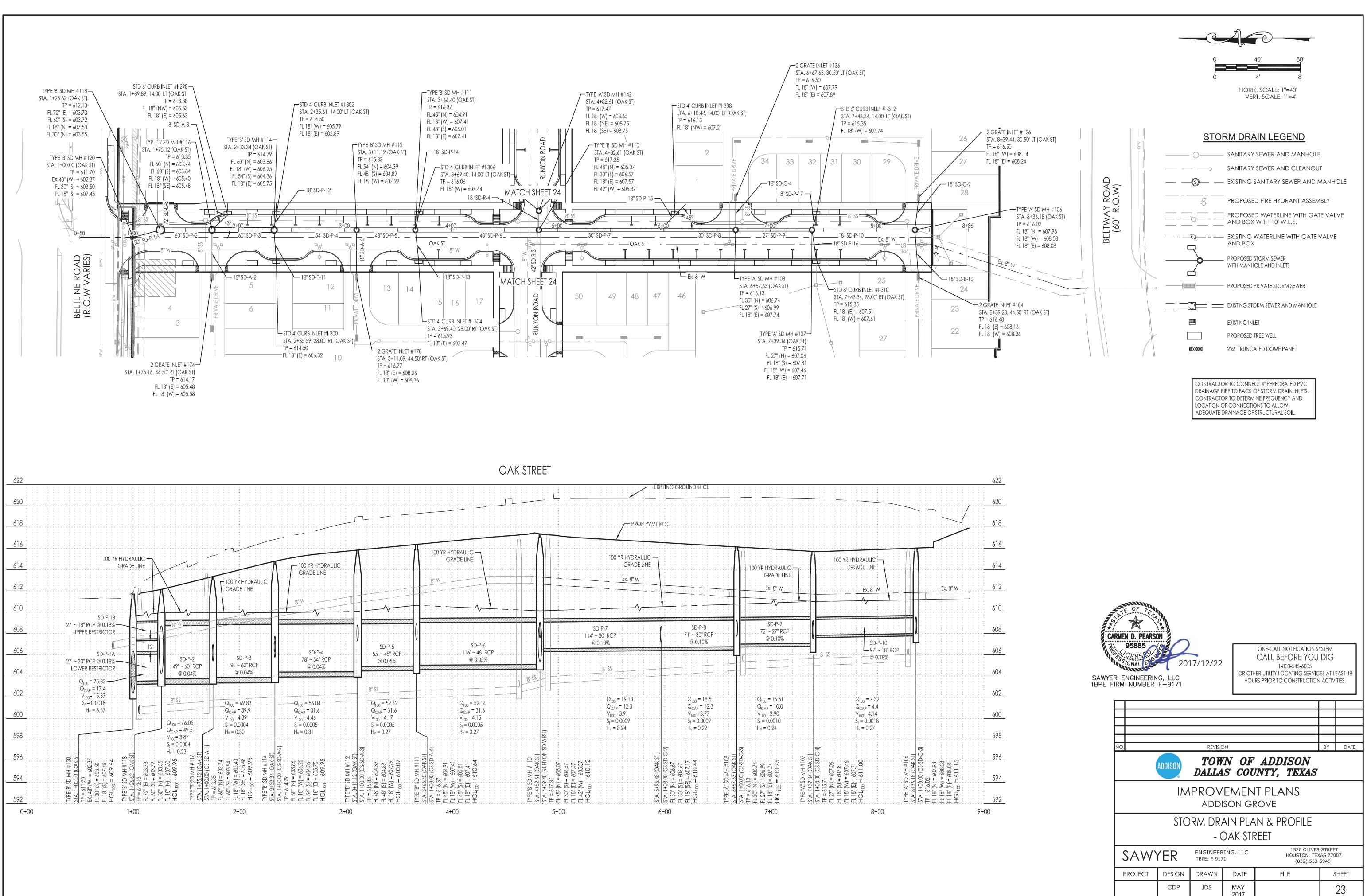
HYDRAULIC COMPUTATIONS ADDISON GROVES

HYDRAULIC COMPUT

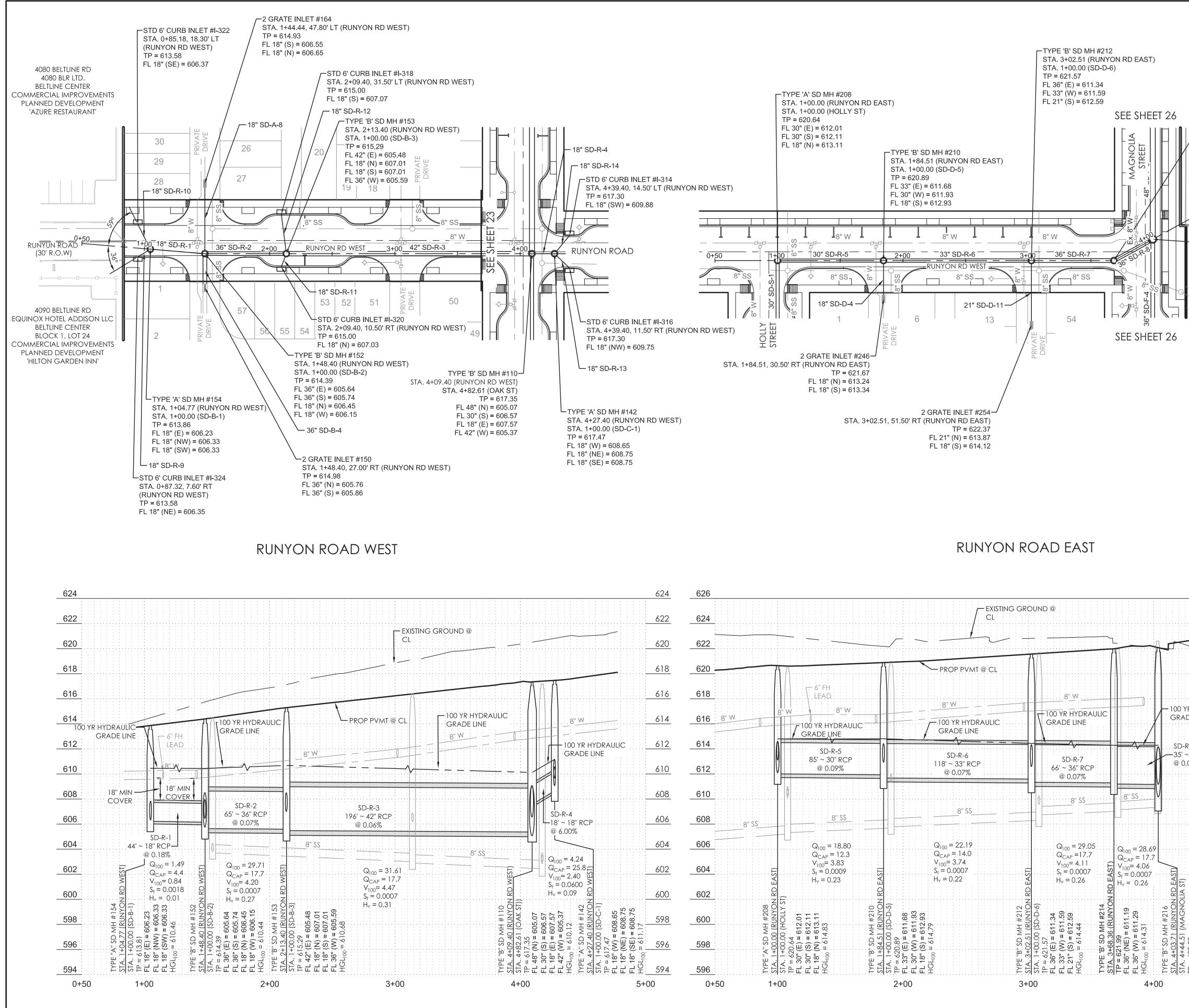


SAWYER ENGINEERING, LLC TBPE FIRM NUMBER F-9171

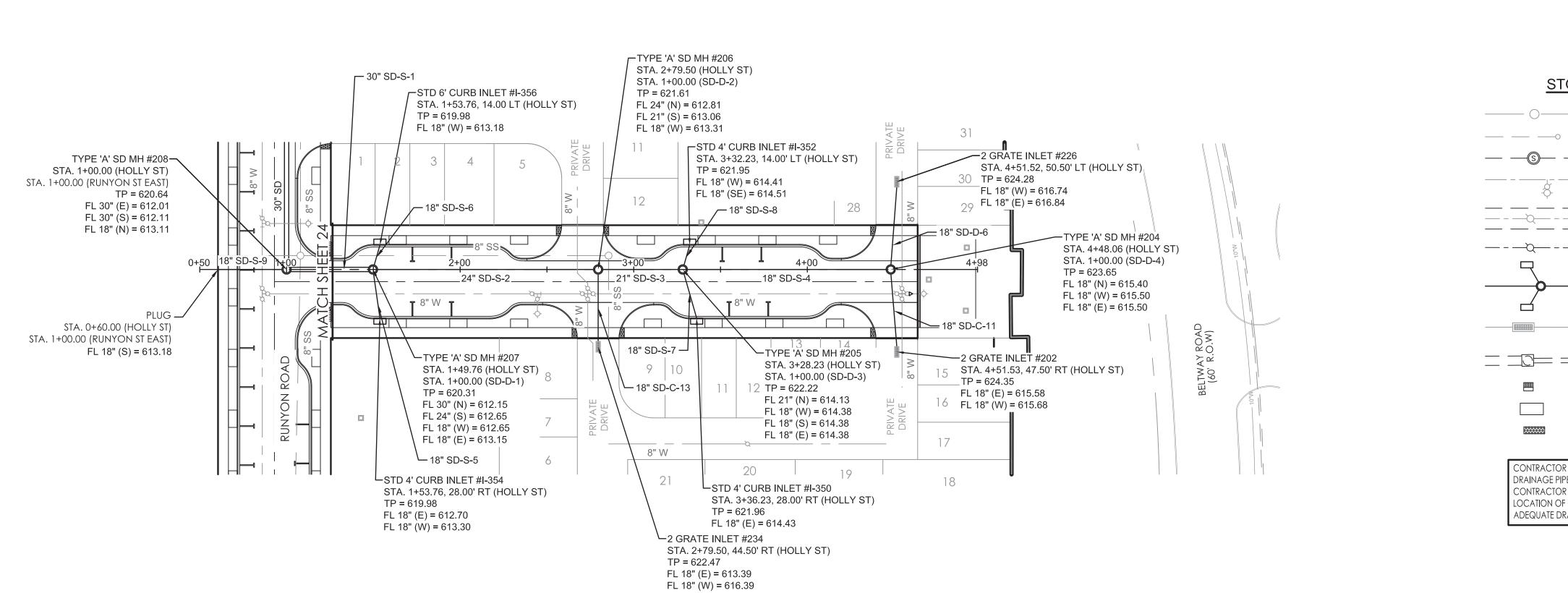
	1											
L												
NO.		BY	DATE									
	ADDISON TOWN OF ADDISON DALLAS COUNTY, TEXAS											
	IMPROVEMENT PLANS Addison grove											
	DR			_,	ALCULATION CULATIONS	1S -						
	SAWYER ENGINEERING, LLC TBPE: F-9171 1520 OLIVER STREET HOUSTON, TEXAS 77007 (832) 553-5948											
	PROJECT	FILE	S	HEET								
		CDP	JDS	MAY 2017			22					



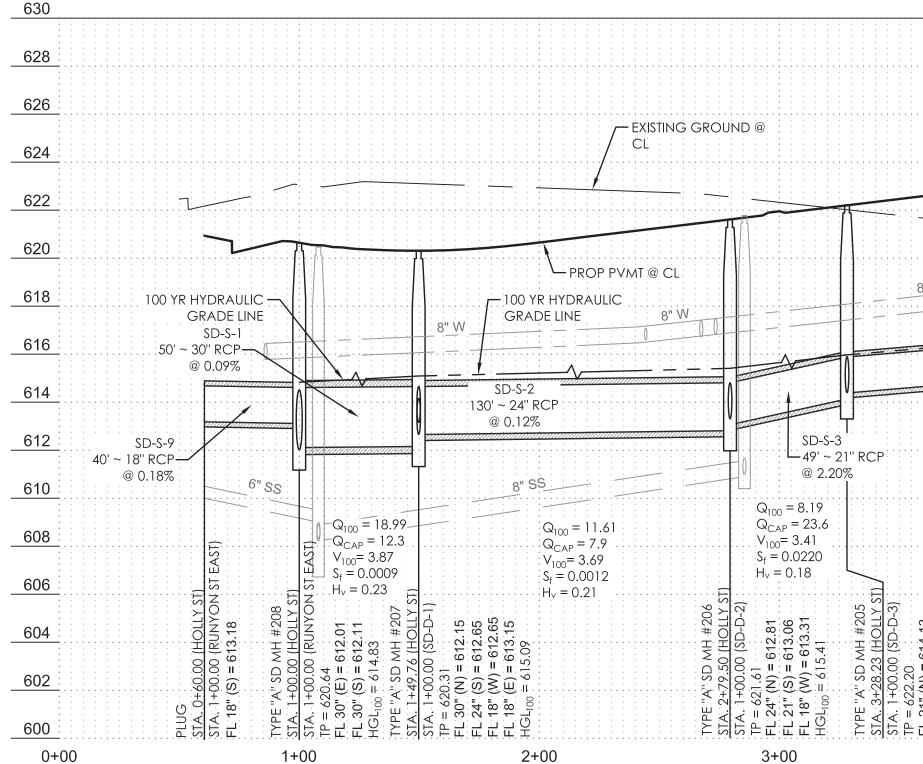
		EXISTING GROUND @ CL			622
1					620
		PROP PVMT @ CL			618
				1	616
			100 YR HYDRAULIC		614
		<u></u>	GRADE LINE Ex. <u>8</u> " W	Ex. 8" W	Ex. 8" W 612
					610
	SD-P-7	SD-P-8 71' ~ 30" RCP	SD-P-9		608
SD-P-6 ' ~ 48'' RCP	114' ~ 30" RCP @ 0.10%	@ 0.10%	@ 0.10%	SD-P-10 97' ~ 18" RCP	606
@ 0.05%	8" SS				604
	0 8" SS				602
= 52.14 ,= 31.6 4.15	Q ₁₀₀ = 1 Q _{CAP} = V ₁₀₀ = 3.	12.3 $Q_{CAP} = 12.3$ 91 $V_{100} = 3.77$	$Q_{100} = 15.51$ $Q_{CAP} = 10.0$ $V_{100} = 3.90$	$Q_{100} = 7.32$ $Q_{CAP} = 4.4$ $V_{100} = 4.14$	600
).0005 0.27	S _f = 0.00 H _v = 0.2		$S_f = 0.0010$ $H_V = 0.24$	$S_{f} = 0.0018$ $H_{v} = 0.27$	598
	0 SFD YON SD W	sr) D-C-2)	08 STJ D-C-3) 07 STJ	38 38 31 51 51	596
= 610.64	 MH #11 MH #11 MO (RUN) A0 (RUN	.48 (OAK .00 (CS-Si = 606.67 = 607.17 = 607.17	D.MH #11 63 (OAK 		20 = 607.98 = 608.08 = 611.15 204
HGL ₁₀₀ ≓ 610.64	TYPE 'B' SD MH #110 STA. 4+82.61 (OAK ST) STA. 4+09 40 (RUNYON SD V TP = 617.35 FL 48" (N) = -605.07 FL 30" (S) = 605.57 FL 20" (S) = 605.37 HGL ₁₀₀ = 610.12	STA. 5+96.48 (OAK ST) STA. 1+00.00 (CS-SD-C FL 30" (N) = 606.67 FL 30" (S) = 606.67 FL 18" (SE) = 607.17 HCL ₁₀₀ = 610.44	TYPE "A" SD MH #108 STA. 6+67.63 (OAK ST) STA. 1+00.00 (CS-SD-C-3) TP = 616.13 FL 30" (N) = 606.74 FL 27" (S) = 606.74 FL 18" (E) = 607.74 FL 18" (E) = 607.74 TYPE "A" SD MH #107 STA. 7+39.34 (OAK ST) STA. 7+39.34 (OAK ST)	TP = 615.71 TP = 615.71 FL 27" (N) = 607.06 FL 18" (S) = 607.81 FL 18" (W) = 607.46 FL 18" (E) = 607.71 HGL ₁₀₀ = $61.1.00$ TYPE "A" SD MH #106 STA. 8+36.18 (OAK ST)	$\begin{array}{c} 596\\ FL 18'' (N) = 602.02\\ FL 18'' (N) = 608.08\\ FL 18'' (N) = 608.08\\ FL 18'' (E) = 608.08\\ HGL_{100} = 611.15\\ 223\\ 223\\ 223\\ 223\\ 223\\ 223\\ 233\\ 23$
	5+00	6+00	7+00	8+00	9+00



TYPE 'B' SD MH #214					Ĭ	
STA. 3+68.36 (RUNYON RD EAST) TP = 621.99						
FL 36" (NE) = 611.19 FL 36" (W) = 611.29						
				0'	40'	80'
4*54				0'	4'	8'
					HORIZ. SCALE: 1"= VERT. SCALE: 1'	
TYPE 'B' SD MH #216 STA. 4+03.71 (RUNYON RD EAST)					VENT. OOALE. T	
STA. 4+44.51 (MAGNOLIA ST) TP = 622.08 FL 48" (N) = 610.17			ST	ORM DF	RAIN LEGEND	
FL 36" (SW) = 611.17 FL 36" (SW) = 611.17 FL 36" (S) = 611.17			- 0	— Sanita	ry sewer and manh	OLE
			0		ry sewer and clean	
			-6	— EXISTIN	G SANITARY SEWER AN	d manhole
			-Q-		SED FIRE HYDRANT ASS	
					SED WATERLINE WITH C DX WITH 10' W.L.E.	GATE VALVE
			`Q	— EXISTIN AND BC	G WATERLINE WITH GA DX	TE VALVE
			<u> </u>		ed storm sewer NHOLE AND INLETS	
		[PROPOSI	ed private storm sewer	
			=	existing	storm sewer and manhc	DLE
				existing	INLET	
				PROPOSE	ED TREE WELL	
			0000000	2'x6' TRUN	NCATED DOME PANEL	
		D C L(RAINAGE PIPE ONTRACTOR T DCATION OF C	to back of s o determine	4" PERFORATED PVC TORM DRAIN INLETS. FREQUENCY AND TO ALLOW UCTURAL SOIL.	
626					UCTURAL JOIL.	
<u>624</u>				OF OF	TEX	
<u>622</u>						
620				ARMEN D. P 9588		
618_			, A	CENS SSIONAL	EN999 2017/	12/22
0 YR HYDRAULIC RADE LINE 616			SAWY		ERING, LLC BER F-9171	
			IDFL			
D-R-8 614 5' ~ 36" RCP					NE-CALL NOTIFICATION	
612					1-800-545-6005 HER UTILITY LOCATING	
610					LEAST 48 HOURS PRIC	
608						
	 					
<u> 606 </u>	NO.		REVISI			BY DATE
<u>604</u>					ADDISON	DAIE
602 0019		ADDISON			INTY, TEXAS	,
A. $4+44.51$ (MAGNOLIA ST) = 622.08 36" (SW) = 610.17 36" (SW) = 611.17 36" (S) = 611.17 36" (S) = 611.17 (SL ₁₀₀ = 614.29 (9) 90 90 90 90 90 90 90 90 90 90 90 90 90		IM		<mark>EMEN</mark> ISON GI	IT PLANS Rove	
A. 4+44.51 = 622.08 48" (N) = (36" (SW) 36" (S) = (51,100 = 614 2612		ST			I PLAN &	
					ON ROAD	
5+00	SAW	YER	ENGINEEF TBPE: F-917		1520 OLIVE HOUSTON, TE (832) 553	XAS 77007
	PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
		CDP	JDS	MAY 2017		24



HOLLY STREET



STORM DRAIN LEGEND

	630
	628
	626
	624
	622
T 100 YR HYDRAULIC GRADE LINE	620
8" W	618
	616
SD-S-4	614
-120' ~ 18" RCP @ 0.84%	612
0 - 4.05	610
$Q_{100} = 4.05$ $Q_{CAP} = 9.7$ $V_{100} = 2.29$ $S_f = 0.0084$	608
$H_{\rm v} = 0.08$	606
FL 21" (N) = 614.13 FL 18" (S) = 614.38 FL 18" (S) = 614.38 FL 18" (E) = 614.38 HGL ₁₀₀ = 615.97 TYPE "A" SD MH #204 STA. 4+48.06 (HOLLY STA. 1+00.00 (SD-D-4) TP = 623.65 FL 18" (N) = 615.40 FL 18" (N) = 615.50 HGL ₁₀₀ = 617.00	604
21" (N) = 614.13 18" (V) = 614.38 18" (E) = 614.38 18" (E) = 614.38 18" (E) = 614.38 18" (E) = 615.97 1400 (SD-D- 1400 (SD-D- 1400 (SD-D- 18" (N) = 615.50 18" (N) = 615.50 18" (E) = 617.00	602
FL 21" (N) = 614.13 FL 18" (W) = 614.38 FL 18" (S) = 614.38 FL 18" (E) = 614.38 HGL ₁₀₀ = 615.97 TYPE "A" SD MH #204 STA. 1+00.00 (SD-D-4) TP = 623.65 FL 18" (N) = 615.40 FL 18" (N) = 615.50 HGL ₁₀₀ = 617.00	600
4+00 5+	·00

– Sanitary sewer and manhole

Sanitary sewer and cleanout

— — (S)— — EXISTING SANITARY SEWER AND MANHOLE

PROPOSED FIRE HYDRANT ASSEMBLY

PROPOSED WATERLINE WITH GATE VALVE AND BOX WITH 10' W.L.E.

> PROPOSED STORM SEWER WITH MANHOLE AND INLETS

PROPOSED PRIVATE STORM SEWER

EXISTING STORM SEWER AND MANHOLE

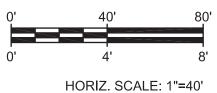
EXISTING INLET

PROPOSED TREE WELL

2'x6' TRUNCATED DOME PANEL

CONTRACTOR TO CONNECT 4" PERFORATED PVC DRAINAGE PIPE TO BACK OF STORM DRAIN INLETS. CONTRACTOR TO DETERMINE FREQUENCY AND LOCATION OF CONNECTIONS TO ALLOW ADEQUATE DRAINAGE OF STRUCTURAL SOIL.



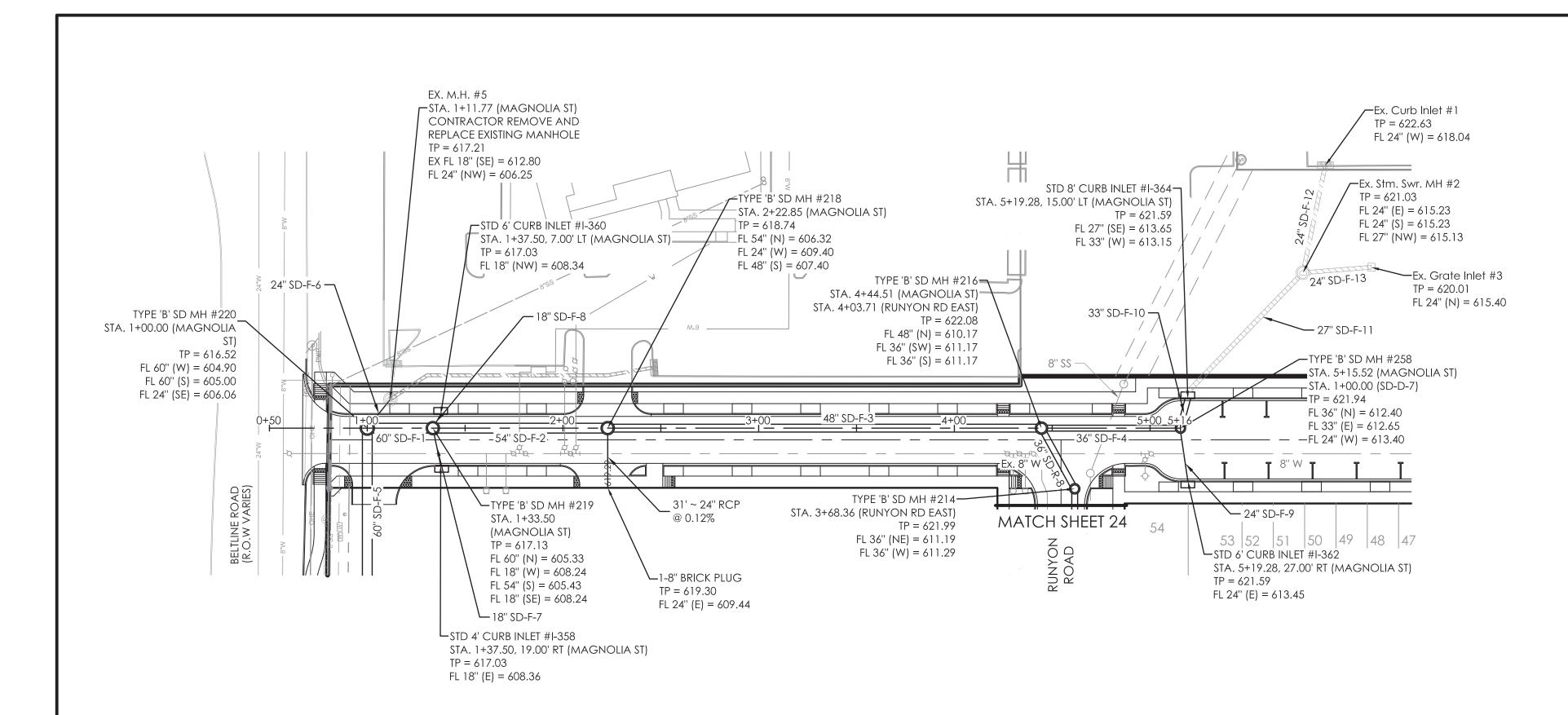


VERT. SCALE: 1"=40"

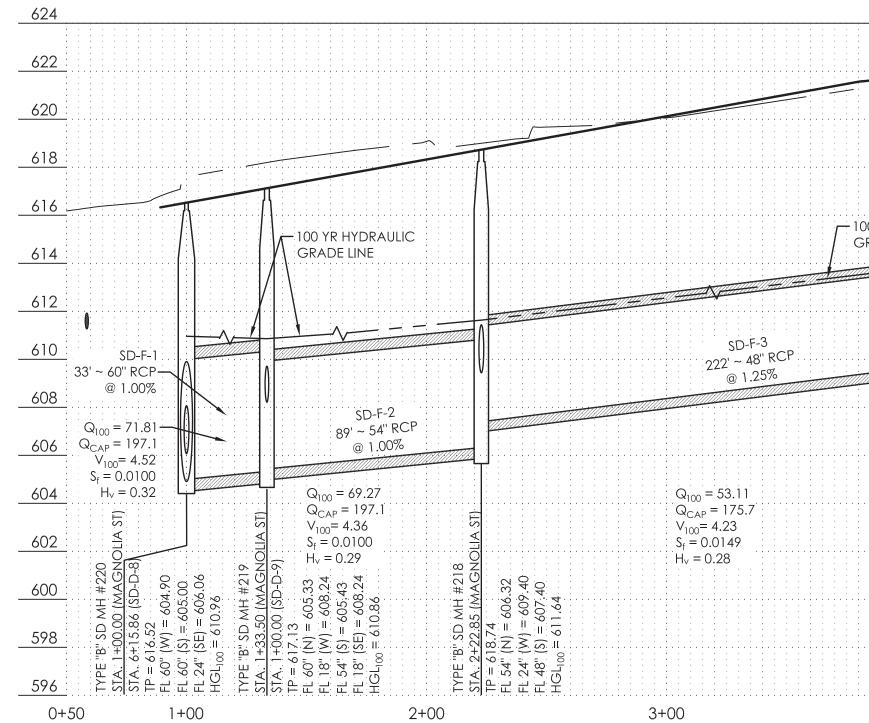


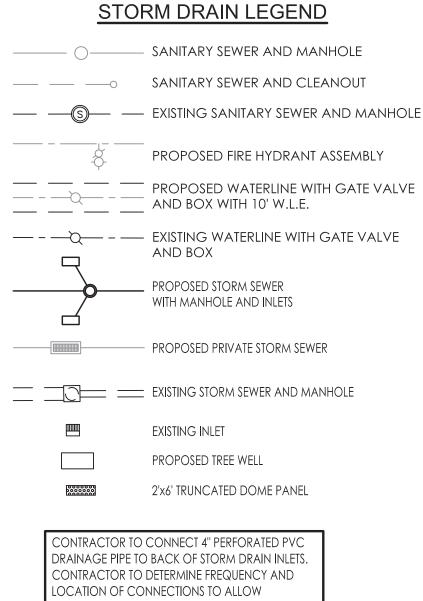
SAWYER ENGINEERING, LLC TBPE FIRM NUMBER F-9171 ONE-CALL NOTIFICATION SYSTEM CALL BEFORE YOU DIG 1-800-545-6005 OR OTHER UTILITY LOCATING SERVICES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES.

NO.			REVISIO	ON		ΒY	DATE					
	ADDISON TOWN OF ADDISON DALLAS COUNTY, TEXAS											
	IMPROVEMENT PLANS ADDISON GROVE											
			_		I PLAN & LY STREET							
	SAW	ſER	ENGINEER TBPE: F-917		1520 OLIVEF HOUSTON, TE> (832) 553-	(AS 770						
F	PROJECT	FILE	S	HEET								
		CDP	JDS	MAY 2017			25					



MAGNOLIA STREET





		404
· · · · · · · · · · · · · · · ·		624
	$-\pi$	622
-		620
EX. <u>8</u> "		618 R HYDRAULIC DE LINE
		616
00 YR HYDRAULIC RADE LINE		614
<u></u>	SD-F-4 71'~36'RCP @ 1.73%	612
	V	610
<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		608
	Q ₁₀₀ = 27.91 Q _{CAP} = 87.9	606
	$V_{100} = 3.95$ $S_f = 0.0173$ $H_v = 0.24$	604
	AGNOLLA ST AGNOLLA ST H^{2}	602
×10# H	(RUNYO (RUNYO 611.17 1.17 1.17 29 (MAGNO (SD-D-7) (SD-D-7) 12.40 12.45 13.40	eq 600
# HW CSa. EdAL	STA. $4+44.51$ (MMY/ STA. $4+03.71$ (RUNY/ TP = 622.08 FL 48" (N) = 610.17 FL 36" (SW) = 611.17 FL 36" (S) = 611.17 HGL ₁₀₀ = 614.29 TYPE "B" SD MH #25 STA. $1+00.00$ (SD-D- TP = 621.94 FL 36" (N) = 612.40 FL 33" (E) = 612.40 FL 33" (E) = 612.65 FL 33" (E) = 612.65	598
L APF	STA. 4 STA. 4 FL 48" FL 36" FL 33" FL 33" FL 33"	596
4+00	5+00	5+50

SANITARY SEWER AND CLEANOUT

----- EXISTING SANITARY SEWER AND MANHOLE

PROPOSED FIRE HYDRANT ASSEMBLY

- PROPOSED PRIVATE STORM SEWER

ADEQUATE DRAINAGE OF STRUCTURAL SOIL.



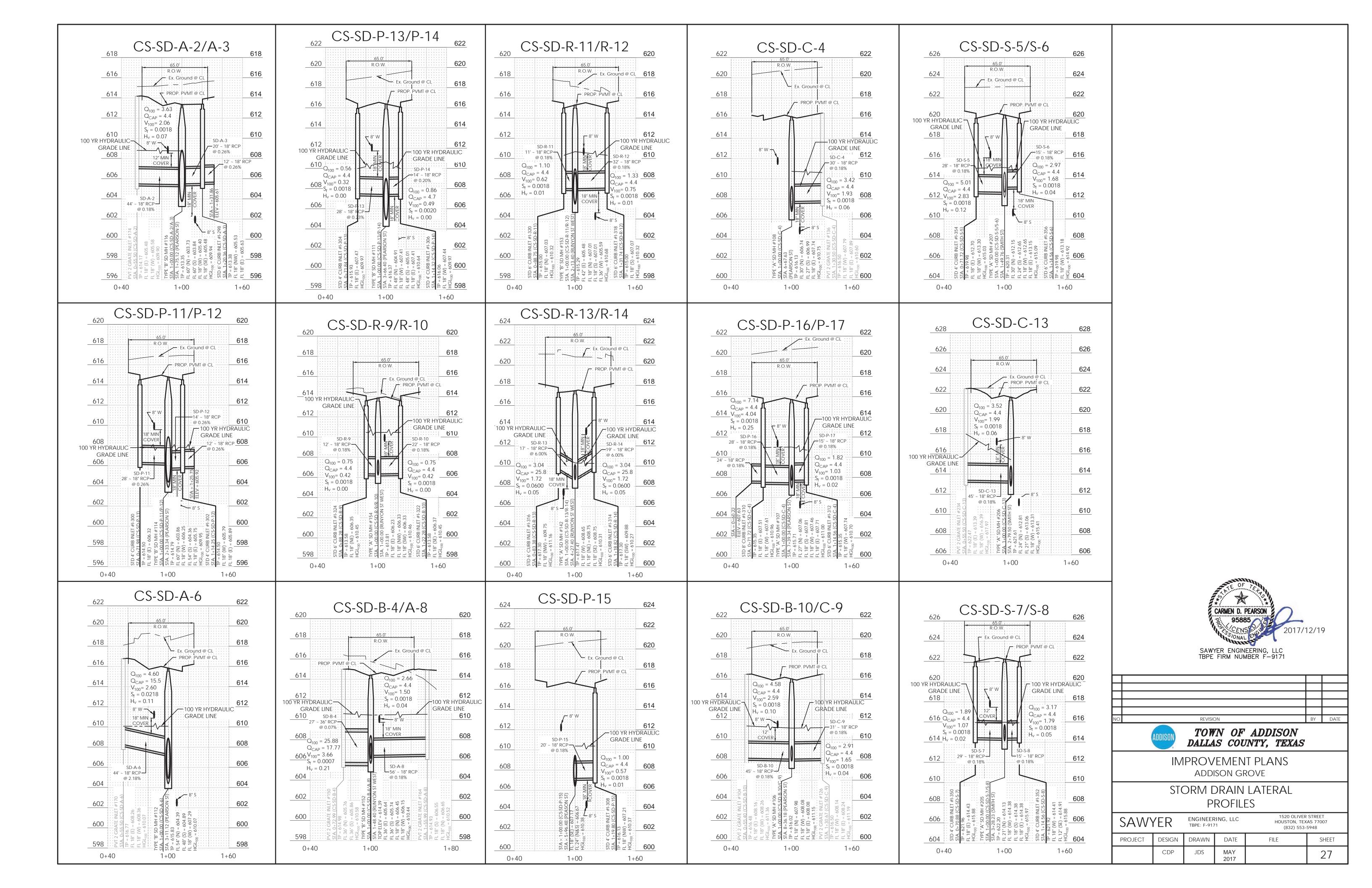


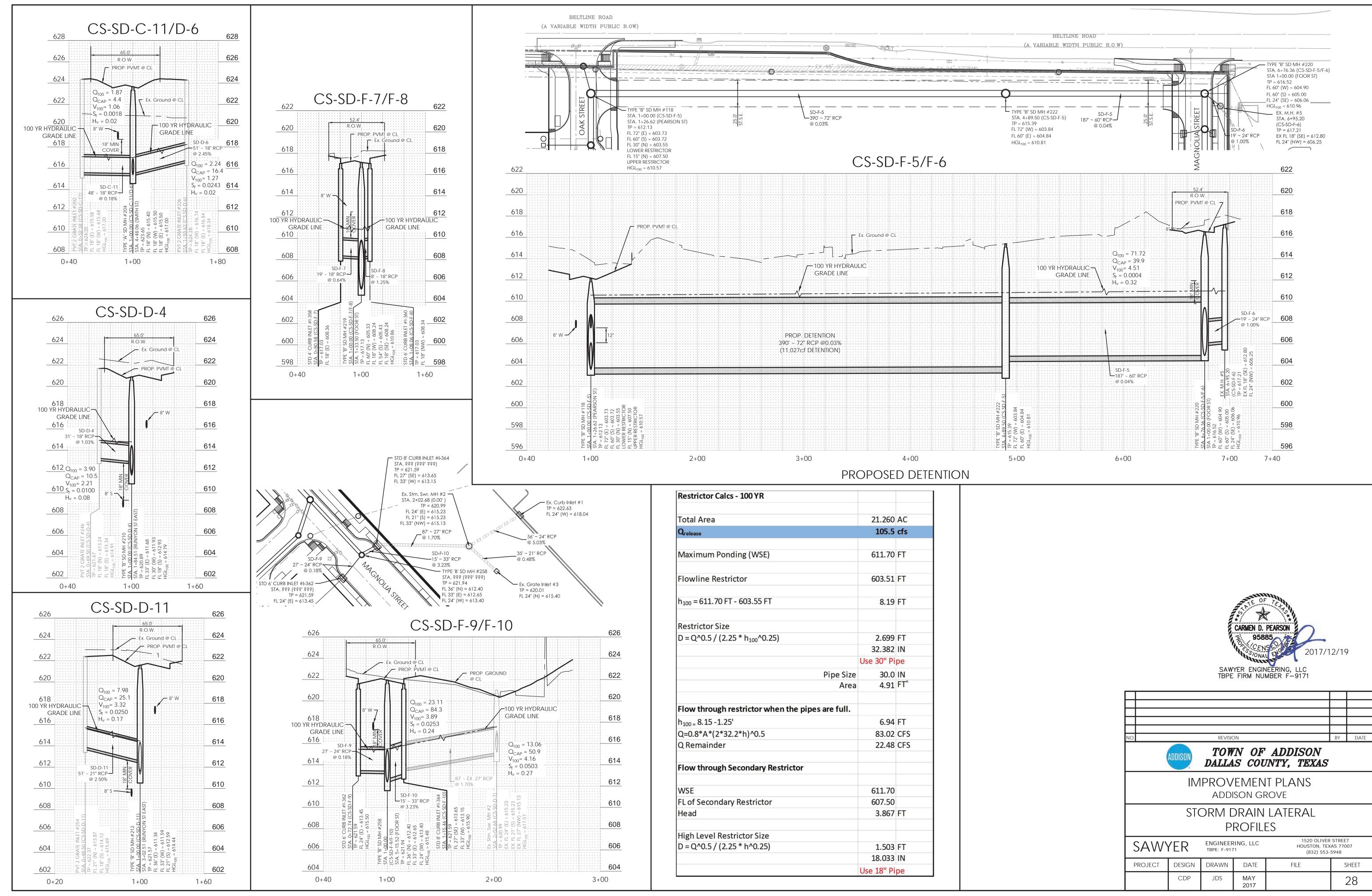
VERT. SCALE: 1''=4'



ONE-CALL NOTIFICATION SYSTEM CALL BEFORE YOU DIG 1-800-545-6005 OR OTHER UTILITY LOCATING SERVICES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES.

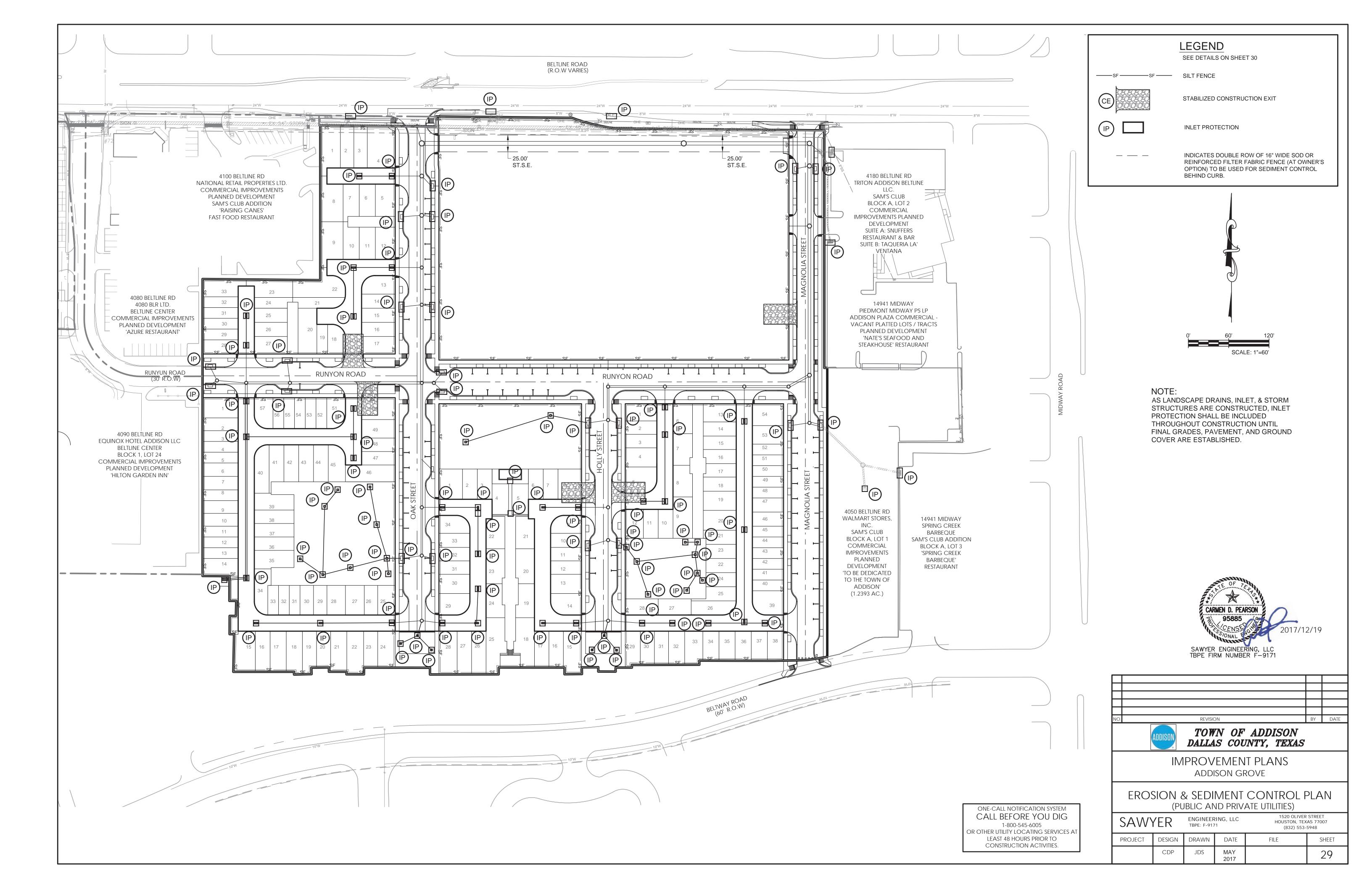
NO.		Revisio	ON		BY	DATE						
ADDISON DALLAS COUNTY, TEXAS												
IMPROVEMENT PLANS ADDISON GROVE												
				I PLAN & OLIA STREET								
SAW	YER	ENGINEER TBPE: F-917		1520 OLIVER HOUSTON, TE> (832) 553-	(AS 770							
PROJECT	FILE	S	HEET									
	CDP	JDS	MAY 2017			26						

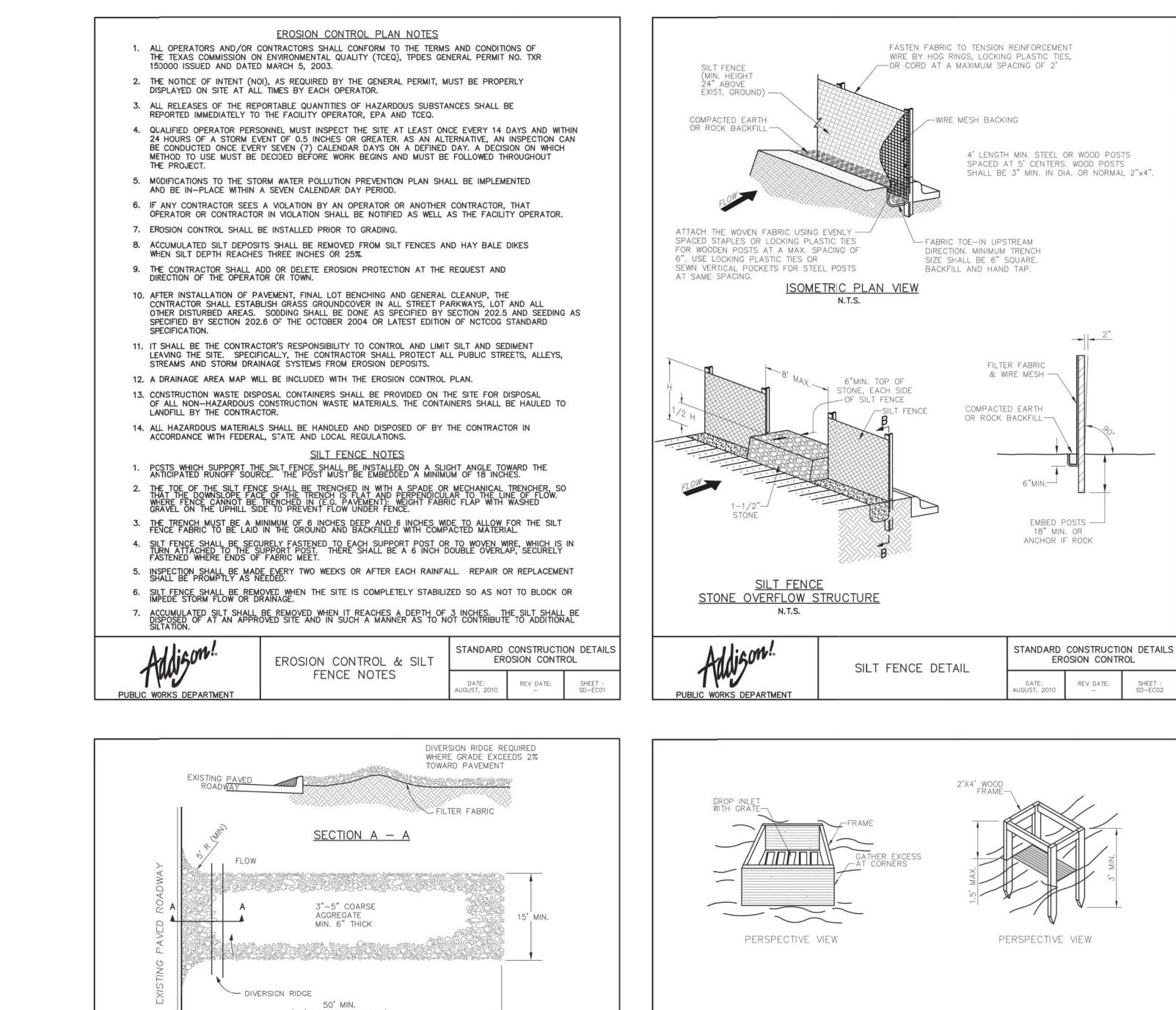


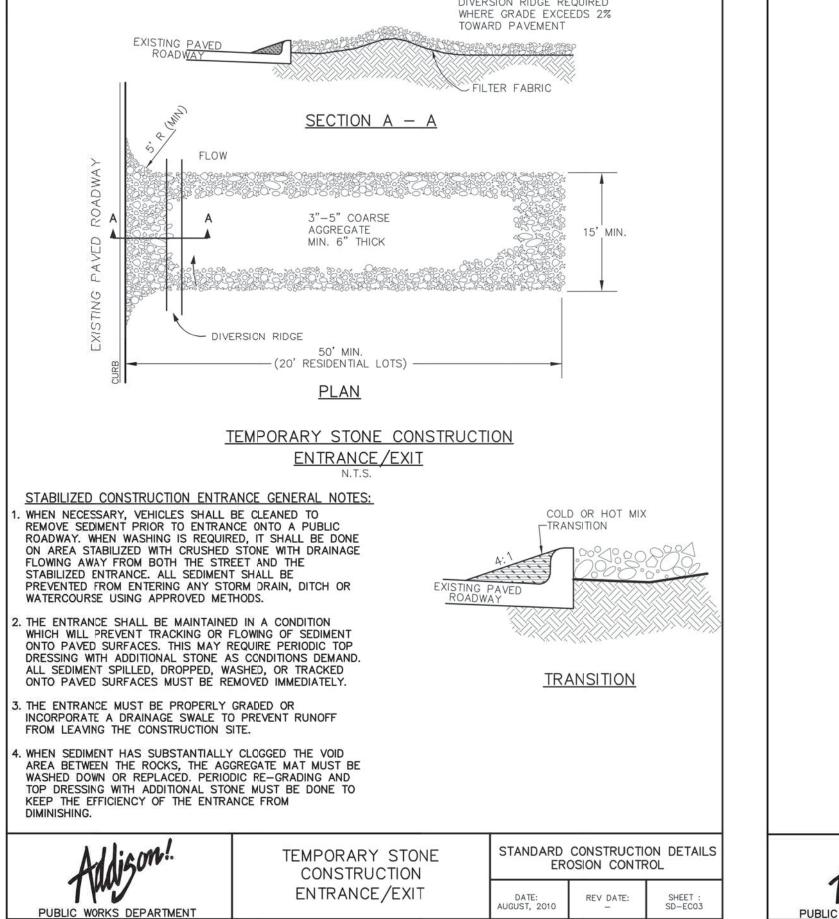


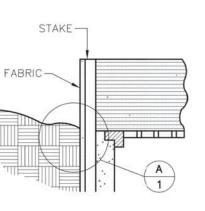
56' ~ 24" RCP @ 5.03%	
35' ~ 21" RCP @ 0.48%	
Ex. Grate Inlet #3 TP = 620.01 FL 24" (N) = 615.40	
′F-10	626
	624
GROUND	622
	620
-100 YR HYDRAULIC GRADE LINE	618
Q ₁₀₀ = 13.06	616
$V = O_{CAP} = 50.9$ $V_{100} = 4.16$ $S_{f} = 0.0503$	614
RCP H _v = 0.27	612
#2 -5D-D-7) - 15.23 615.13 615.13	610
Ex. Stm. Swr. MH #2 SIA. 2+02.68 (CS-SD-D-7 TP = 620.99 EX. FL 24" (E) = 615.23 EX. FL 21" (S) = 615.23 HGL ₁₀₀ = 617.57 HGL ₁₀₀ = 617.57	608
E Stm TP = 621 TP = 621 E.X. FL 2 E.X. FL 2 E.X. FL 2 HGL ₁₀₀	606
	604
2+00 3+0	00

Restrictor Calcs - 100 YR	1	
Total Area	21.260	AC
Q _{release}	105.5	
- Crelease	105.5	cis
Maximum Ponding (WSE)	611.70	FT
Flowline Restrictor	603.51	FT
h ₁₀₀ = 611.70 FT - 603.55 FT	8.19	FT
Restrictor Size		
D = Q^0.5 / (2.25 * h ₁₀₀ ^0.25)	2.699	FT
	32.382	IN
	Use 30" Pi	ре
Pipe Size	30.0	IN
Area	4.91	FT
Flow through restrictor when the pipes are full.		
h _{100 =} 8.15 -1.25'	6.94	FT
Q=0.8*A*(2*32.2*h)^0.5	83.02	CFS
Q Remainder	22.48	CFS
Flow through Secondary Restrictor		
WSE	611.70	
FL of Secondary Restrictor	607.50	
Head	3.867	FT
High Level Restrictor Size		
D = Q^0.5 / (2.25 * h^0.25)	1.503	FT
	18.033	IN
	Use 18" Pi	pe

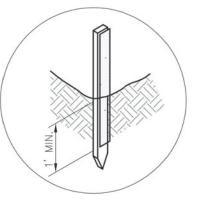




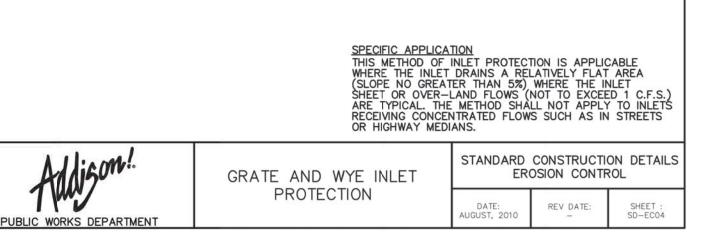


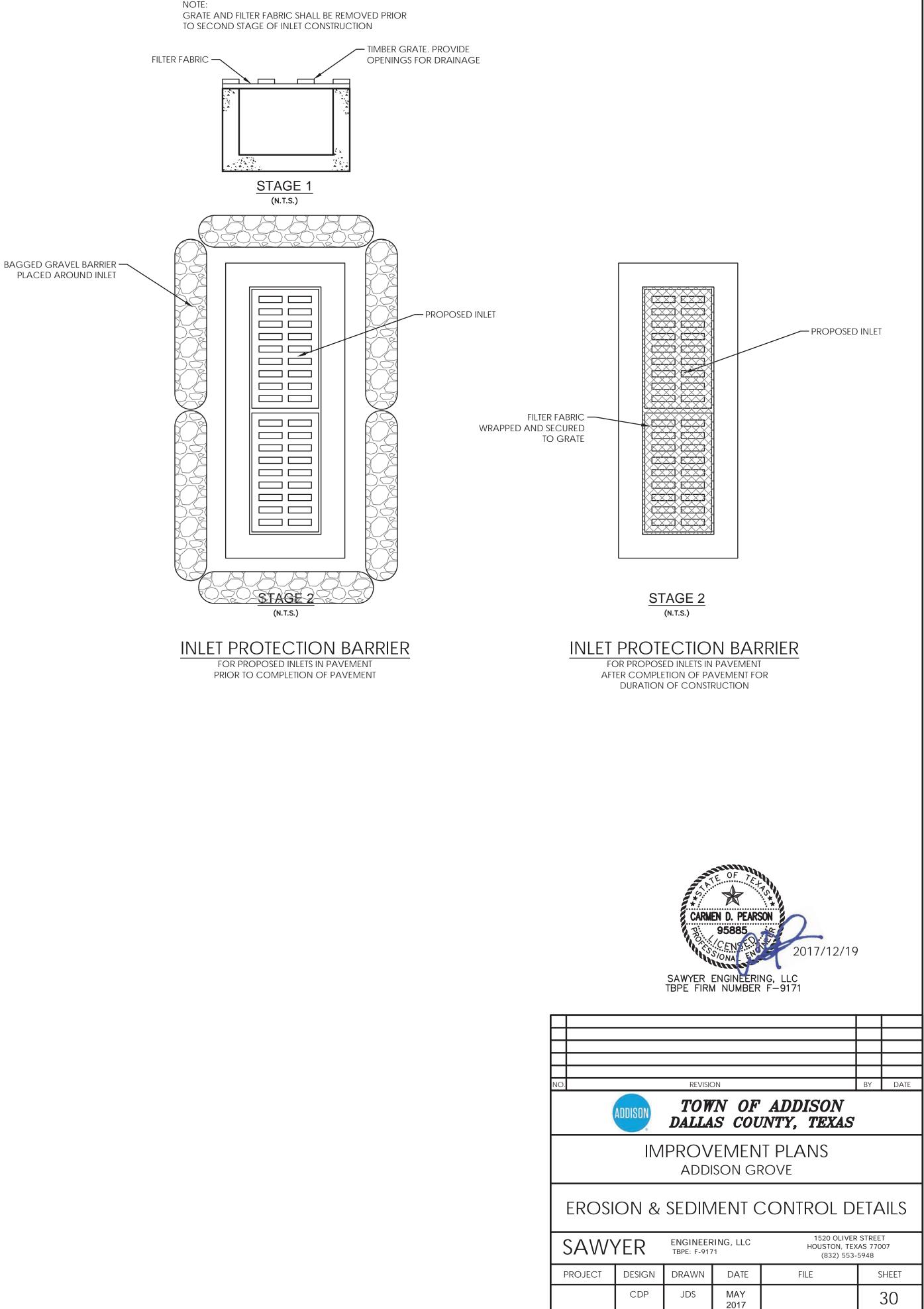


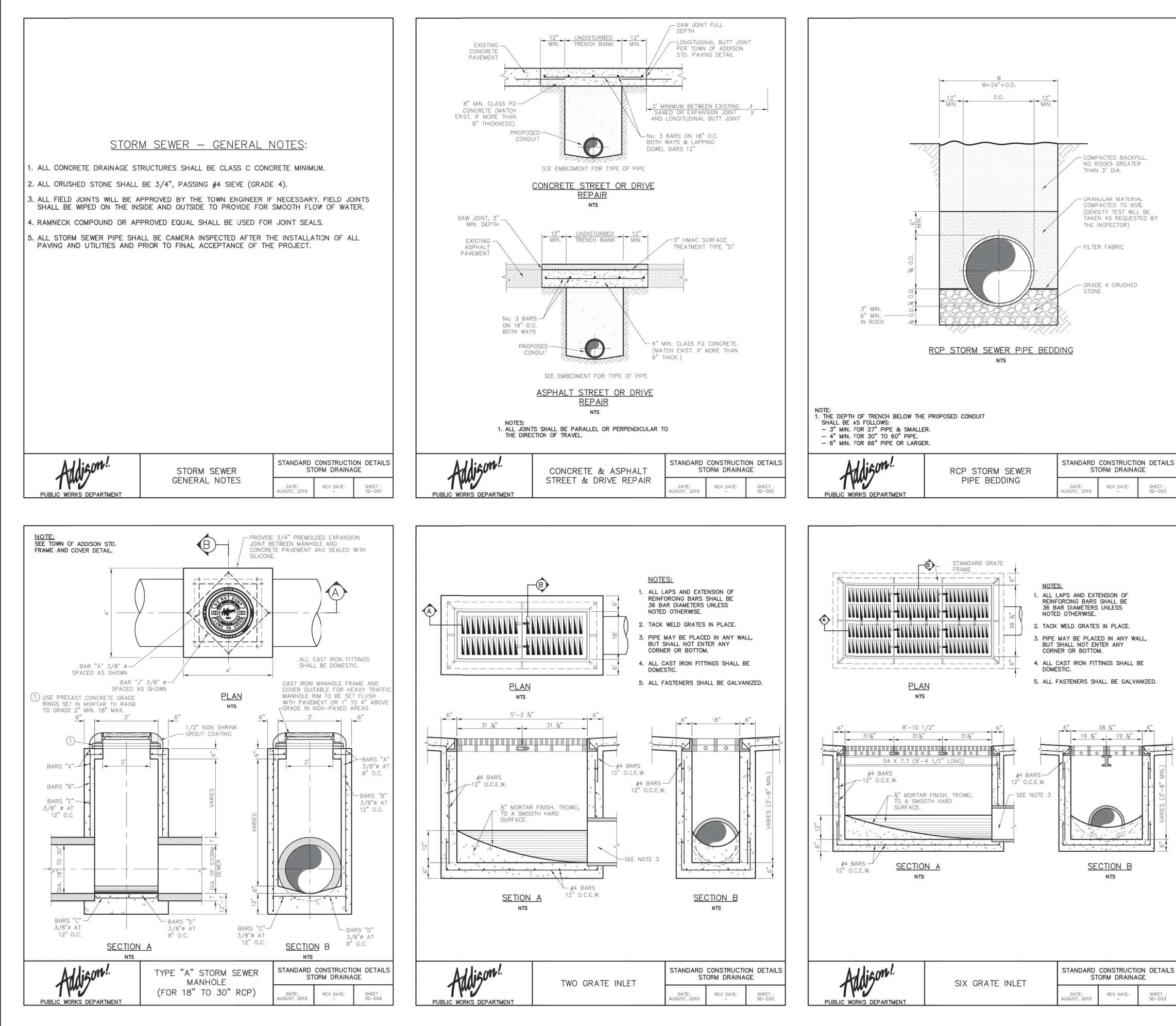
ELEVATION OR STAKE AND FABRIC ORIENTATION

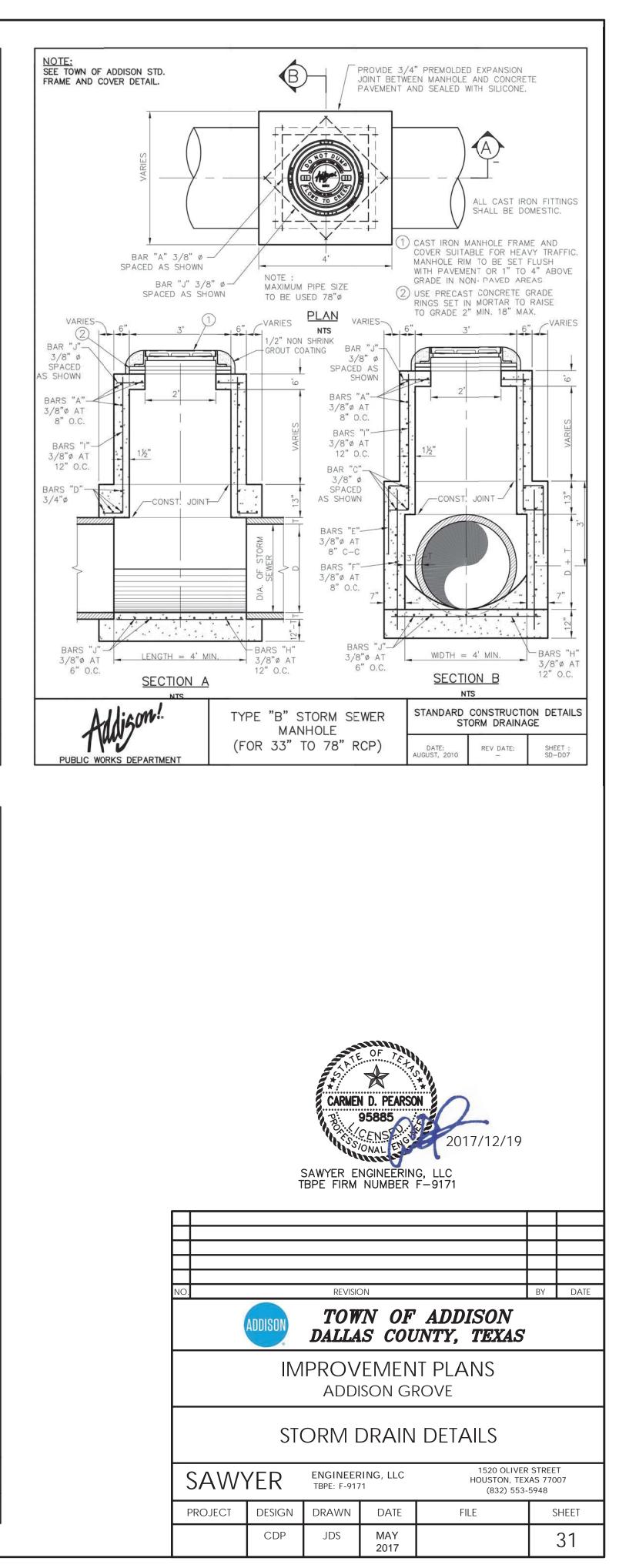


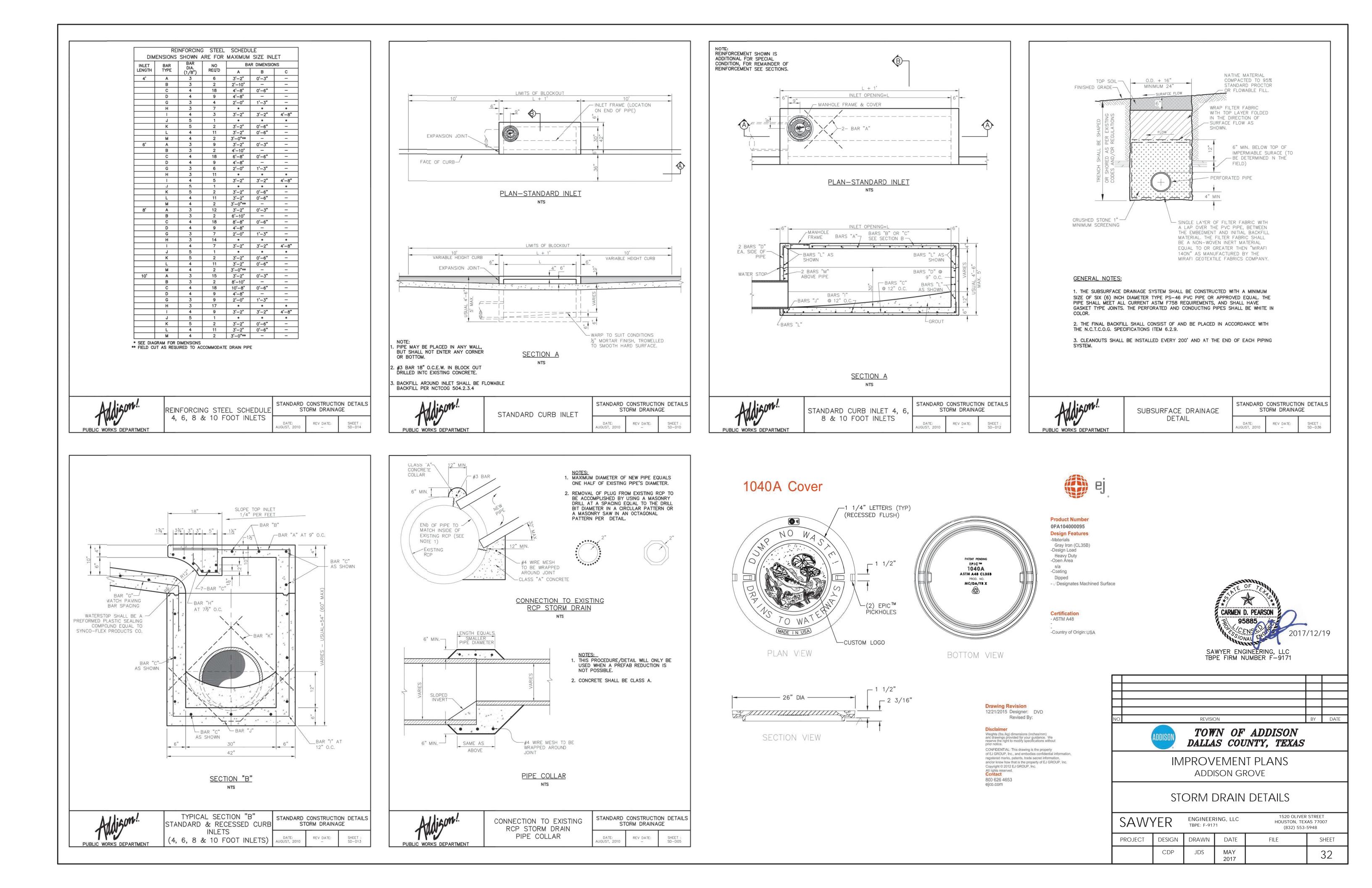
DETAIL 'A'

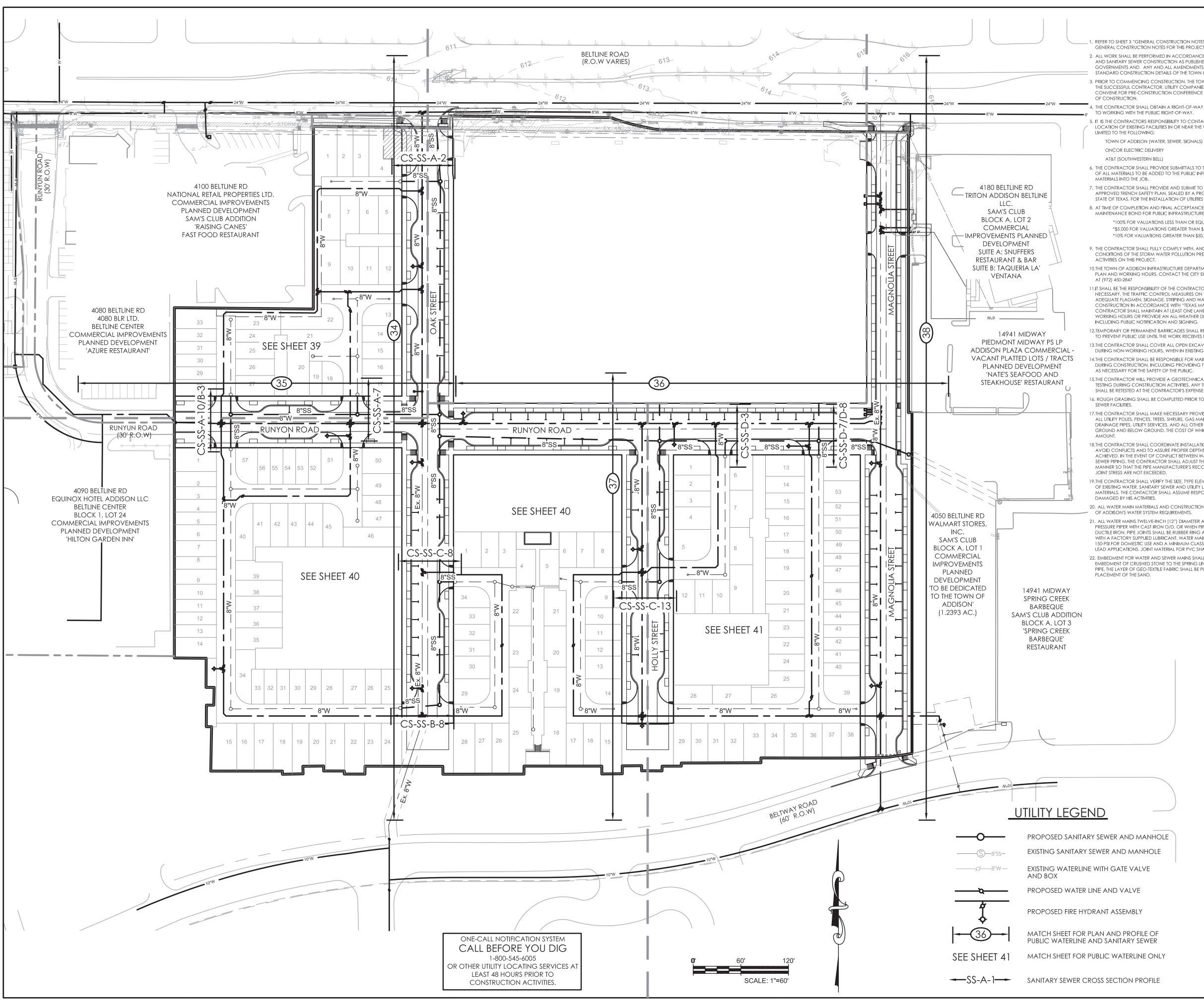












GENERAL WATER & SEWER NOTES

. REFER TO SHEET 3 "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 WATER

AND SANITARY SEWER CONSTRUCTION AS PUBLISHED BY NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS AND ANY AND ALL AMENDMENTS BY THE TOWN OF ADDISON, AS WELL AS STANDARD CONSTRUCTION DETAILS OF THE TOWN OF ADDISON.

3. PRIOR TO COMMENCING CONSTRUCTION, THE TOWN OF ADDISON, THE CONSULTING ENGINEERS, THE SUCCESSFUL CONTRACTOR, UTILITY COMPANIES, AND ANY OTHER AFFECTED PARTIES, SHALL CONVENE FOR PRE-CONSTRUCTION CONFERENCE AT LEAST 48 HOURS PRIOR TO THE BEGINNING

THE CONTRACTOR SHALL OBTAIN A RIGHT-OF-WAY PERMIT FROM THE TOWN OF ADDISON PRIOR TO WORKING WITH THE PUBLIC RIGHT-OF-WAY. 5. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT ANY PUBLIC UTILITY COMPANIES FOR LOCATION OF EXISTING FACILITIES IN OR NEAR THE WORK AREAS, THESE INCLUDE, BUT ARE NOT

town of addison (water, sewer, signals) ATMOS ENERGY (GAS)

AT&T (SOUTHWESTERN BELL)

VERIZON/ MC TIME-WARNER CABLE

6. THE CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE ENGINEER (SIX SETS EACH), FOR APPROVAL OF ALL MATERIALS TO BE ADDED TO THE PUBLIC INFRASTRUCTURE, PRIOR TO INCORPORATING

7. THE CONTRACTOR SHALL PROVIDE AND SUBMIT TO THE TOWN OF ADDISON (FOUR SETS EACH), AN APPROVED TRENCH SAFETY PLAN, SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS, FOR THE INSTALLATION OF UTILITIES GREATER THAN FIVE (5) FEET IN DEPTH. 8. AT TIME OF COMPLETION AND FINAL ACCEPTANCE THE CONTRACTOR SHALL PROVIDE A MAINTENANCE BOND FOR PUBLIC INFRASTRUCTURE WORK IN THE FOLLOWING AMOUNTS:

*100% FOR VALUATIONS LESS THAN OR EQUAL TO \$50,000 *\$5,000 FOR VALUATIONS GREATER THAN \$5,000 AND LESS THAN \$50,000 *10% FOR VALUATIONS GREATER THAN \$50,000

9. THE CONTRACTOR SHALL FULLY COMPLY WITH, AND SUPPLEMENT AS NECESSARY, THE CONDITIONS OF THE STORM WATER POLLUTION PREVENTION PLAN WHILE CONDUCTING HIS

10.THE TOWN OF ADDISON INFRASTRUCTURE DEPARTMENT WILL APPROVE THE TRAFFIC CONTROL PLAN AND WORKING HOURS. CONTACT THE CITY ENGINEER OR THE INFRASTRUCTURE INSPECTOR

11.IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IMPLEMENT, AND SUPPLEMENT AS NECESSARY, THE TRAFFIC CONTROL MEASURES ON THIS PROJECT. INCLUDING PROVIDING ADEQUATE FLAGMEN, SIGNAGE, STRIPING AND WARNING DEVICES, ETC., DURING CONSTRUCTION IN ACCORDANCE WITH "TEXAS MANUAL OF UNIFORM CONTROL DEVICES". THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE LANE OF TRAFFIC IN EACH DIRECTION DURING WORKING HOURS OR PROVIDE AN ALL-WEATHER DETOUR AROUND THE CONSTRUCTION SITE, INCLUDING PUBLIC NOTIFICATION AND SIGNING.

12. TEMPORARY OR PERMANENT BARRICADES SHALL REMAIN AT ALL POINTS OF INGRESS OR EGRESS TO PREVENT PUBLIC USE UNTIL THE WORK RECEIVES FINAL ACCEPTANCE.

13.THE CONTRACTOR SHALL COVER ALL OPEN EXCAVATIONS WITH ANCHORED STEEL PLATING. DURING NON-WORKING HOURS, WHEN IN EXISTING ROADWAYS AND TRAFFIC AREAS. 14.THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE AT ALL TIMES DURING CONSTRUCTION, INCLUDING PROVIDING TEMPORARY STRUCTURES OR IMPROVEMENTS

AS NECESSARY FOR THE SAFETY OF THE PUBLIC. 15.THE CONTRACTOR WILL PROVIDE A GEOTECHNICAL LABORATORY TO PERFORM APPROPRIATE TESTING DURING CONSTRUCTION ACTIVITIES. ANY TEST THAT FAILS TO MEET CITY REQUIREMENTS

16. ROUGH GRADING SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF WATER AND SANITARY

17. 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 GROUND AND BELOW GROUND. THE COST OF WHICH SHALL BE INCLUDED IN THE CONTRACT

18.THE CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND TO ASSURE PROPER DEPTHS AND ALL TCEQ REQUIRED CLEARANCES ARE ACHIEVED. IN THE EVENT OF CONFLICT BETWEEN WATER LINES AND STORM DRAIN OR SANITARY SEWER PIPING, THE CONTRACTOR SHALL ADJUST THE WATER LINE DOWNWARDS IN SUCH A MANNER SO THAT THE PIPE MANUFACTURER'S RECOMMENDATIONS ON THE PIPE DEFLECTION AND JOINT STRESS ARE NOT EXCEEDED.

19. THE CONTRACTOR SHALL VERIFY THE SIZE, TYPE ELEVATION, CONFIGURATION, AND ANGULATION OF EXISTING WATER, SANITARY SEWER AND UTILITY LINES PRIOR TO CONSTRUCTION OF TIE-IN MATERIALS. THE CONTACTOR SHALL ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING FACILITIES

20. ALL WATER MAIN MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF ADDISON'S WATER SYSTEM REQUIREMENTS.

21 ALL WATER MAINS TWELVE-INCH (12") DIAMETER AND SMALLER SHELL BE ANSI/AWWA C-900 PVC PRESSURE PIPER 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/HYDRANT LEAD APPLICATIONS, JOINT MATERIAL FOR PVC SHALL CONFORM TO ASTM F471

22. EMBEDMENT FOR WATER AND SEWER MAINS SHALL COMPLY WITH NCTCOG CLASS B+ PIPE. THE LAYER OF GEO-TEXTILE FABRIC SHALL BE PLACED ON TOP OF THE STONE PRIOR TO THE

- 23. THE MINIMUM COVER BELOW THE TOP OF CURB AT STREET TO TOP OF THE PIPE SHOULD BE AS FOLLOWS. a. LINES LARGER THAN SIXTEEN-INCH (16"0 SHALL HAVE A MINIMUM OF SIX FEET (6') OF COVER WHICH IS SUFFICIENT TO ALLOW WATER AND SEWER AND OTHER UTILITIES TO GO OVER THE
- LARGE MAIN. b. SIXTEEN-INCH (16'') MAINS SHALL HAVE A MINIMUM COVER OF FIVE FEET (5')

C. TWELVE-INCH (12") AND SMALLER MAINS SHALL HAVE A MINIMUM COVER OF FOUR FEET (4 4. THE CONTRACTOR SHALL SUPPLY AND INSTALL ANY ADDITIONAL BENDS WITH THRUST BLOCKING AND OTHER APPURTENANCES REQUIRED TO ASSURE PROPER INSTALLATION OF WATER MAINS AN 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 CONTACT AMOUNT.

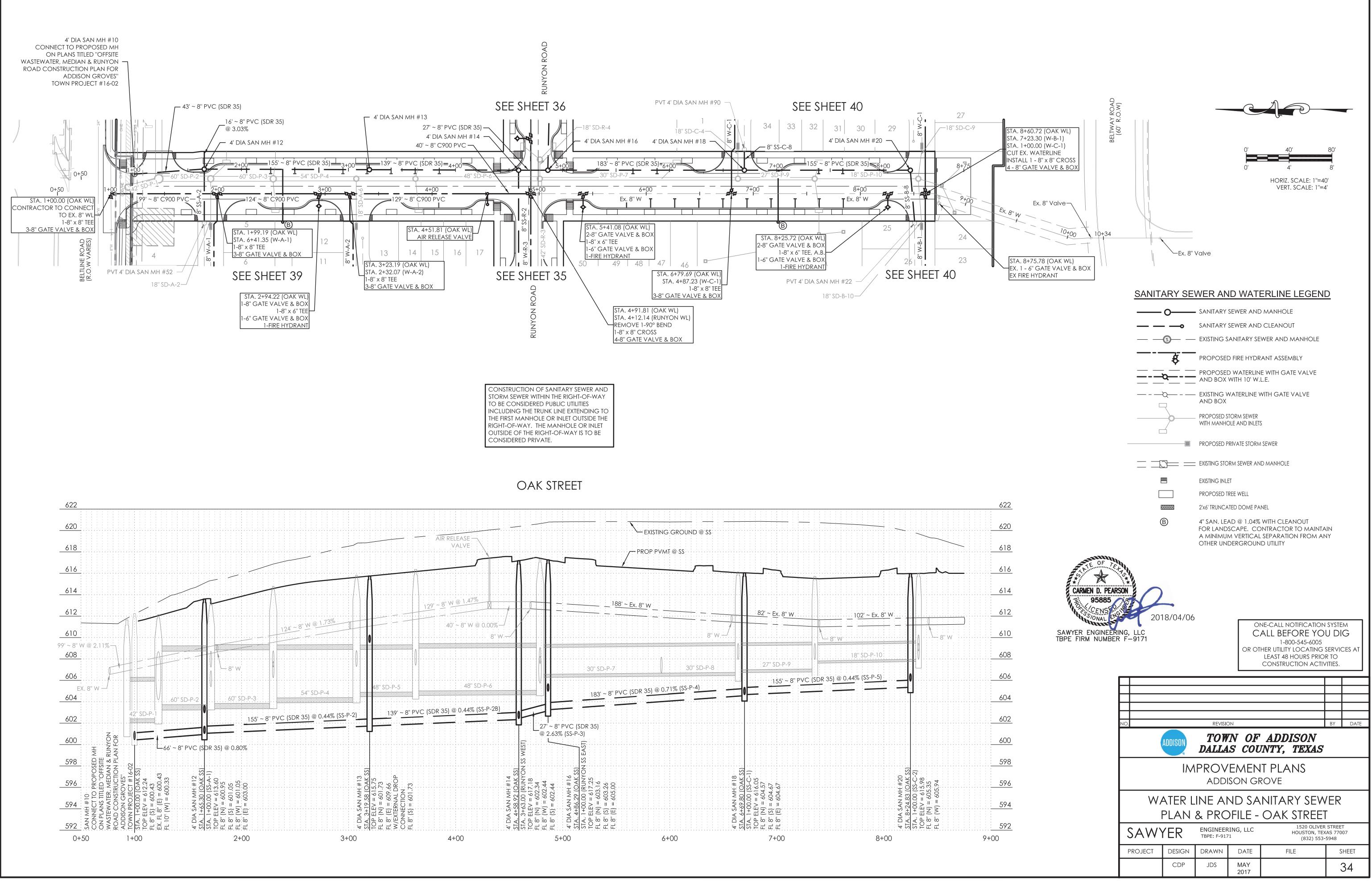
- 25. ALL VALVES AND DUCTILE IRON FITTINGS SHALL BE POLYETHYLENE WRAPPED.
- 26. HORIZONTAL BLOCKING FOR WATER LINES HAS BEEN OMITTED FOR CLARITY: HOWEVER. BLOCKING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GOVERNING AUTHORITIES' STANDARD DETAILS.
- 27. ALL FITTINGS SHALL BE DUCTILE IRON, FULL BODIED, 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.
- 28. All valves and fittings shall have concrete thrusts blocks installed, thrust BLOCKING SHALL BE MINIMUM 3000 PSI CONCRETE AND SHALL BE ABLE TO WITHSTAND A MINIMUM 200 PSI TEST PRESSURE.
- 29. THRUST BLOCKING SHALL BE CONSTRUCTED IN ACCORDANCE WITH GOVERNING AUTHORITIES' STANDARD DETAILS, DO NOT COVER BELLS OR FLANGES WITH CONCRETE, THE CONTACTOR 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
- 30. TRACER WIRE SHALL BE PLACED ON PIPE PRIOR TO EMBEDMENT. WIRE SHALL BE #12 PLASTIC COATED COPPER WIRE, TIED TO ALL VALVES AND FIRE HYDRANTS, AND EXTENDING TO SIX (6) INCHES ABOVE FINISHED GRADE ALONG THE OUTSIDE OF ALL VALVE STACKS AND HYDRANTS 31. 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. 32. NO PERSON SHALL OPEN, TURN OFF, INTERFERE WITH, ATTACH ANY HOSE TO, OR TAP ANY WATER
- MAIN BELONGING TO THE TOWN OF ADDISON. CALL THE TOA INFRASTRUCTURE DEPARTMENT TO SCHEDULE ALL VALVE OPERATIONS (972-450-2847). 33. THE TOWN OF ADDISON WILL REMOVE EXISTING WATER METERS NOT USED FOR PROPOSED
- DEVELOPMENT. CONTRACTOR SHALL REMOVE ALL SERVICES TO THE MAIN, AS DIRECTED BY THE INFRASTRUCTURE DEPARTMENT. REMOVE METERS AND METER LIDS IN A WAY AS TO NOT DAMAG THE METER OR LID AND DELIVER THE SALVAGED METERS TO THE TOWN OF ADDISON. CONTRACTOR SHALL KILL EXISTING DEADHEAD SERVICE FOR REMOVED METERS AT THE MAIN LIN
- 34. THE CONTRACTOR SHALL COMPLETELY REMOVE AND DISPOSE OF EXISTING 8" WATER MAIN AFTER FINAL COMPLETION AND ACCEPTANCE OF NEW 12" WATER MAIN. 35. THE CONTRACTOR SHALL REPLACE EXISTING SERVICE LINES, DESIGNATED TO REMAIN, FROM THE
- EXISTING METERS TO NEW WATER MAIN WITH NEW COPPER (TYPE K ONLY) LINES. NEW SIZES TO BE THE SAME AS EXISTING WITH A MINIMUM OF 3/4" DIAMETER. 36. ALL WASTEWATER MAIN PIPING SHALL MEET THE EXTRA STRENGTH REQUIREMENTS OF ASTM
- SPECIFICATION D3034 (SDR-35). PIPE SHALL HAVE BELL AND SPIGOT TYPE JOINTS, CONSISTING O 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 IN THE UPSTREAM SIDE.
- 37. ALL SEWER MANHOLES WITH PRESSURE TYPE FRAME AND COVERS SHALL HAVE THE INTERIOR SURFACE COATED WITH AN EPOXY COATING (RAVEN 405 OR APPROVED EQUAL). MINIMUM 40 MILS THICKNESS, INSTALLED PER MANUFACTURER'S SPECIFICATIONS
- 38. ALL EXISTING AND PROPOSED IMPROVEMENTS (VALVES, MANHOLES, FIRE HYDRANTS, WATER METERS, ETC.) SHALL BE ADJUSTED TO FINAL FINISHED GRADE BY THE CONTRACTOR.
- 39. THE CONTRACTOR SHALL STAMP A 2-INCH "W" AND A 2-INCH "S" IN THE CURB AT THE LOCATION OF THE WATER AND SEWER SERVICE LINES RESPECTIVELY. A 2-INCH "C" SHALL MARK CONDUITS CROSSING PAVEMENT. AND A 2-INCH "V" SHALL MARK WATER VALVES, WITH THE "POINT" OF TH "V" TOWARD THE VALVE.
- 0. WATERLINES SHALL BE TESTED BOTH BACTERIOLOGICALLY AND HYDROSTATICALLY. WATER MAINS SHALL BE HYDROSTATICALLY TESTED AT 150PSI FOR FOUR (4) HOURS. FIRE LINES SHALL BE HYDROSTATICALLY TESTED AT 200PSI FOR TWO (2) HOURS. ALL BLEEDER LINES SHALL BE REMOVED UPON COMPLETION OF TESTING BY REMOVING THE CORPORATION 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 MANDATORY CHLORINE RETENTION TIME (USUALLY 24 HOURS) UNLESS OTHERWISE NOTED.
- 41 ALL WASTEWATER MAINS SHALL BE CAMERA INSPECTED BY THE CONTRACTOR AFTER THE INSTALLATION OF ALL UTILITIES AND PRIOR TO FINAL ACCEPTANCE OF NEW WASTEWATER FACILITIES.
- 42. THE CONTRACTOR SHALL PROVIDE VERIFICATION OF COMPLETION AND COMPLIANCE OF ALL REQUIRED TESTS (PRESSURE, BACTERIOLOGICAL, BACKFLOW, VACUUM, MANDREL, VHS VIDEO OF SANITARY SEWER ETC.) TO THE TOWN OF ADDISON
- 43. THE CONTRACTOR SHALL CALL (972) 450-2847 TO REQUEST A FINAL WALK-THROUGH INSPECTION OF THE PUBLIC INFRASTRUCTURE WORK.
- 44. ANY ADJACENT PROPERTIES AFFECTED BY THE CONSTRUCTION SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS, OR BETTER.
- EMBEDMENT OF CRUSHED STONE TO THE SPRING LINE OF THE PIPE, WITH SAND (12' MIN) OVER THE 45. BLUE REFLECTORIZED BUTTONS ARE TO BE INSTALLED IN THE CENTER OF THE DRIVE LANE NEAREST THE OUTSIDE CURB OPPOSITE ALL FIRE HYDRANTS.



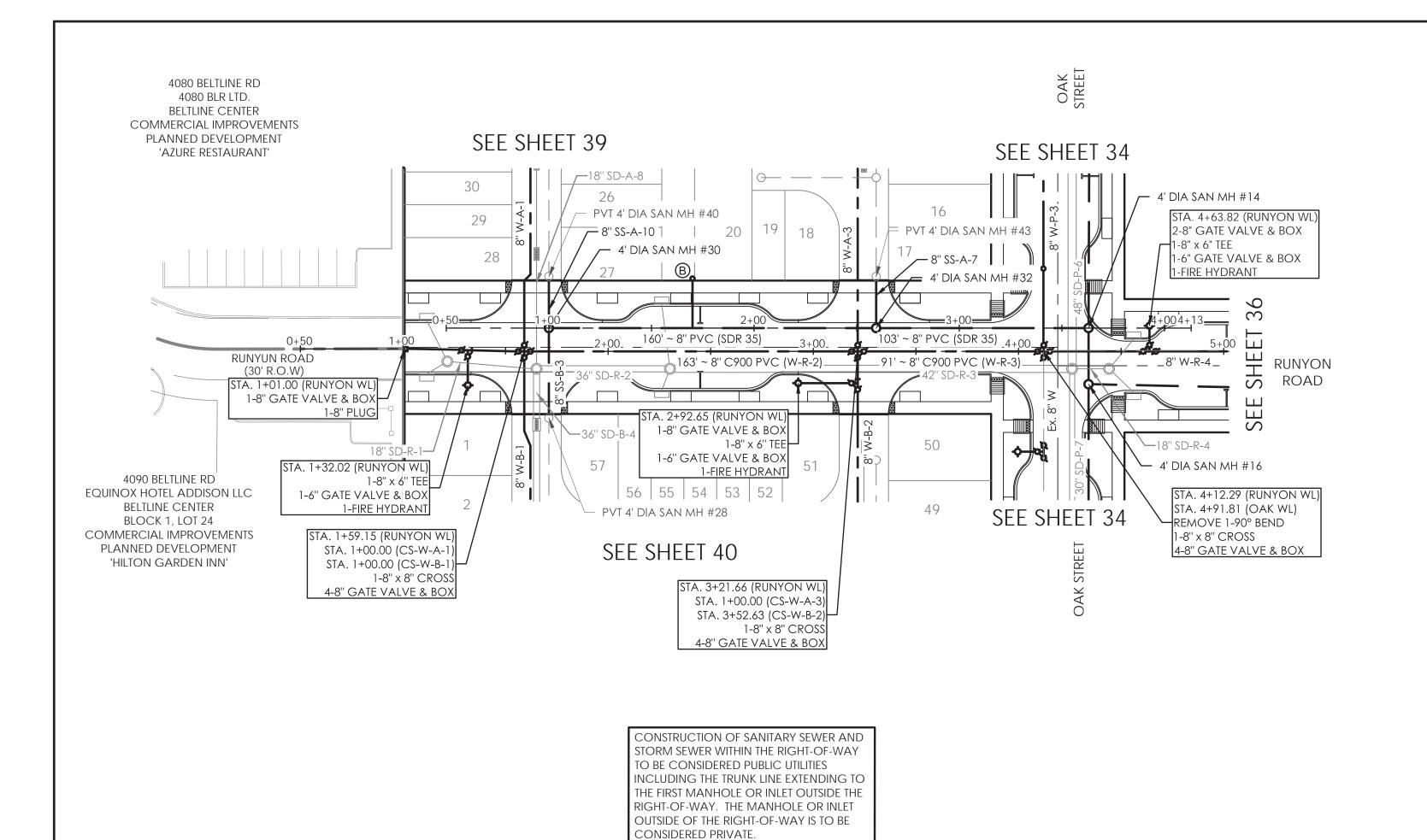
SAWYER ENGINEERING, LLC TBPE FIRM NUMBER F-9171

2017

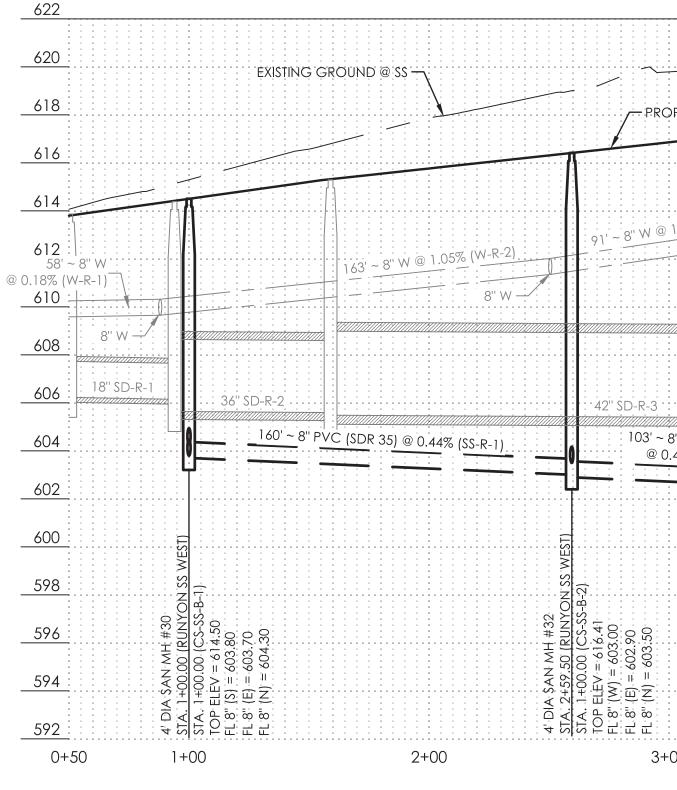
by date revision TOWN OF ADDISON DALLAS COUNTY, TEXAS IMPROVEMENT PLANS ADDISON GROVE **OVERALL WATER & SANITARY SEWER** LAYOUT & NOTES 1520 OLIVER STREET SAWYER ENGINEERING, LLC HOUSTON, TEXAS 77007 TBPE: F-9171 (832) 553-5948 PROJECT design DRAWN DATE FILE SHEET CDP JDS MAY 33



					622
		EXISTING GROUND @ SS			620
		OP PVMT @ SS			618
		·····		///	616
%	100				614_
		<u></u>	<u> </u>	102' ~ Ex. 8'' W	612
@ 0.00%—/ 8" W:—/		8" W			w <u>610</u>
	30" SD-P-7	30" SD-P-8	27" SD-P-9	18" SD-P-10	608
SD-P-6	<u>ennin minin min Minin minin mini Minin minin mini</u>		155' ~ 8" PVC (SDR	2 35) @ 0.44% (SS-P-5)	606
5 (SS-P-2B)	183' ~ 8" PVC (SDR				604
	■ ~ 8'' PVC (SDR 35) .63% (SS-P-3)				602
L KEST					
SS ON SS	4 VON SS		3 	2) 2) 2)	598
SAN MH #14 +58.92 (OAK +63.00 (RUNY LEV = 617.18 V) = 602.34 W) = 602.44	602.44 		MH #18 <u>30 (OAK</u> 50 (SS-C 604.57 504.67 504.67	MH #2 83 [OAK 30 (SS-C 605.35 605.94	596
4' DIA SAN MH #14 STA. 4+58.92 (OAK STA. 3+63.00 (RUNY TOP ELEV = 617.18 FL 8'' (N) = 602.34 FL 8'' (N) = 602.44	FL 8" (S) = 602.44 4' DIA SAN MH #16 <u>STA. 4+86.29 (OAK SS)</u> STA. 1+00.00 (RUNYON TOP ELEV = 617.25 FL 8" (N) = 603.16 FL 8" (S) = 603.26 FL 8" (E) = 605.00		4' DIA SAN MH #18 STA. 6+69.80 (OAK SS) STA. 1+00.00 (SS-C-1) TOP ELEV = 616.05 FL 8'' (N) = 604.57 FL 8'' (S) = 604.67 FL 8'' (E) = 604.67	4' DIA SAN MH #20 STA. 8+24.83 (OAK S) STA. 1+00.00 (SS-C-2 TOP ELEV = 615.98 FL 8'' (N) = 605.94 FL 8'' (W) = 605.94	594
11 12 12 12 12 12 12 12 12 12 12 12 12 1	고 국 당동으로로로 5+00	6+00	7+00	8+00	9+00



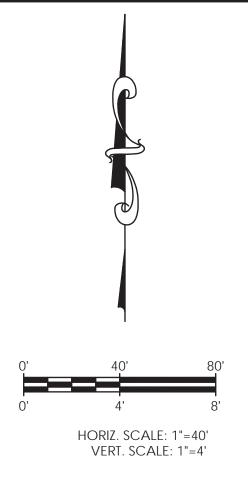
RUNYON ROAD (WEST)



SANITARY SEWER AND WATERLINE LEGEND

O	SANITARY SEWER AND MANHOLE
<u> </u>	Sanitary sewer and cleanout
— — <u>S</u> — —	EXISTING SANITARY SEWER AND MANHOLE
	PROPOSED FIRE HYDRANT ASSEMBLY
<u> </u>	Proposed waterline with gate valve and box with 10' w.l.e.
<u>~</u> ~	Existing waterline with gate valve and box
	PROPOSED STORM SEWER WITH MANHOLE AND INLETS
	PROPOSED PRIVATE STORM SEWER
	EXISTING STORM SEWER AND MANHOLE
	EXISTING INLET
	PROPOSED TREE WELL
0000000	2'x6' TRUNCATED DOME PANEL
B	4" SAN. LEAD @ 1.04% WITH CLEANOUT FOR LANDSCAPE. CONTRACTOR TO MAINTAIN A MINIMUM VERTICAL SEPARATION FROM ANY OTHER UNDERGROUND UTILITY

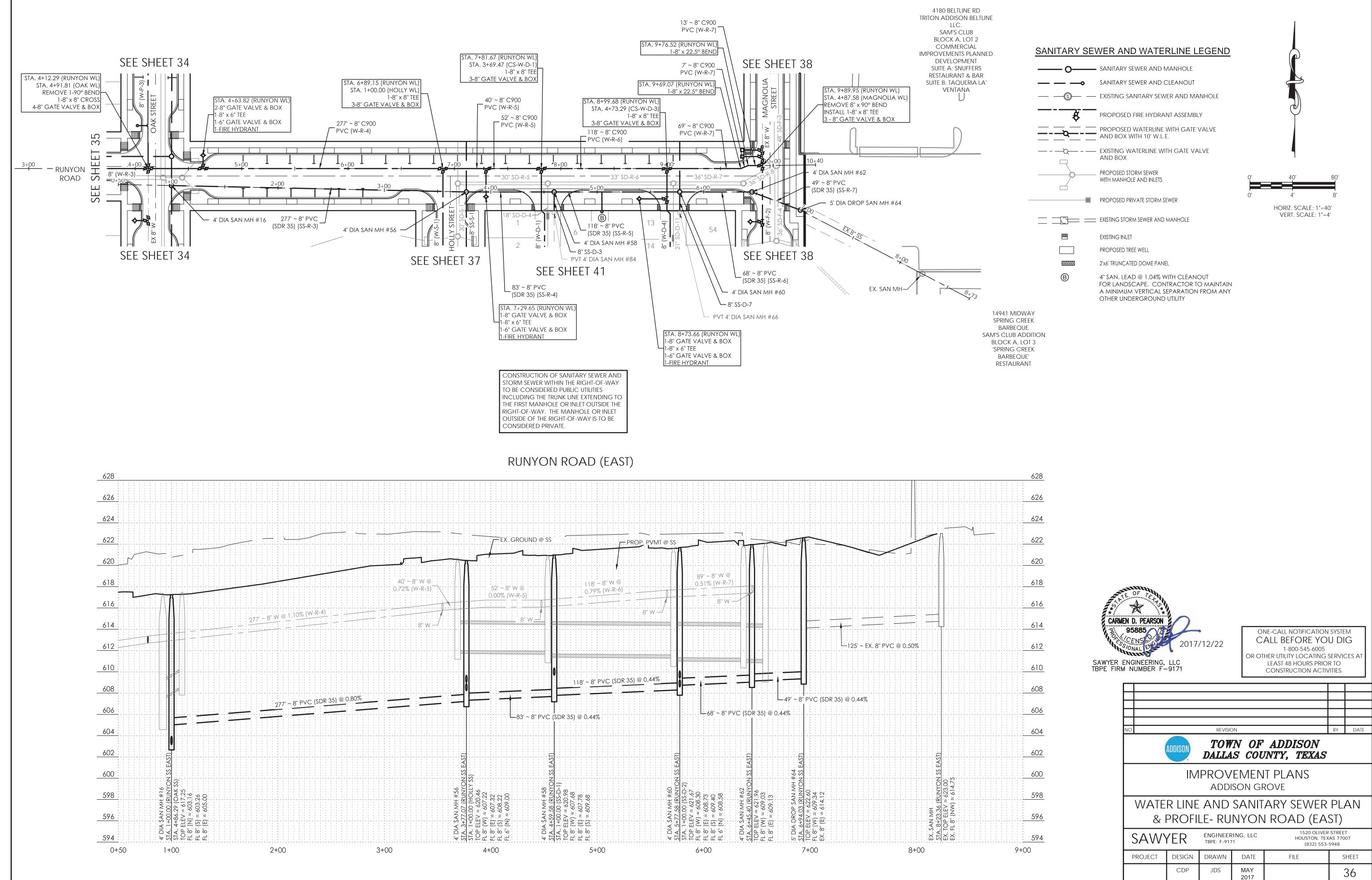
4' DIA SAN MH #14 <u>STA. 3+63:00 (RUNYON SS</u> STA. 4+58:92 (OAK SS) TOP ELEV = 617.18 FL 8'' (N) = 602.34 FL 8'' (S) = 602.44 FL 8'' (S) = 602.44	594
1 # 14 RUNYO OAK SS 0 AK SS 17.18 17.18 2.44 2.44 .44	596
N SS WEST	598
ST)	600
44% (SS-R-2)	602
"PVC (SDR 35)	604
	606
	608
	610
.48% (W-R-3) 8" W	612
@ 1.10% (W-F	R-4) 614
264' ~ 8" W	616
P: P:VMT @. \$\$	618
	620

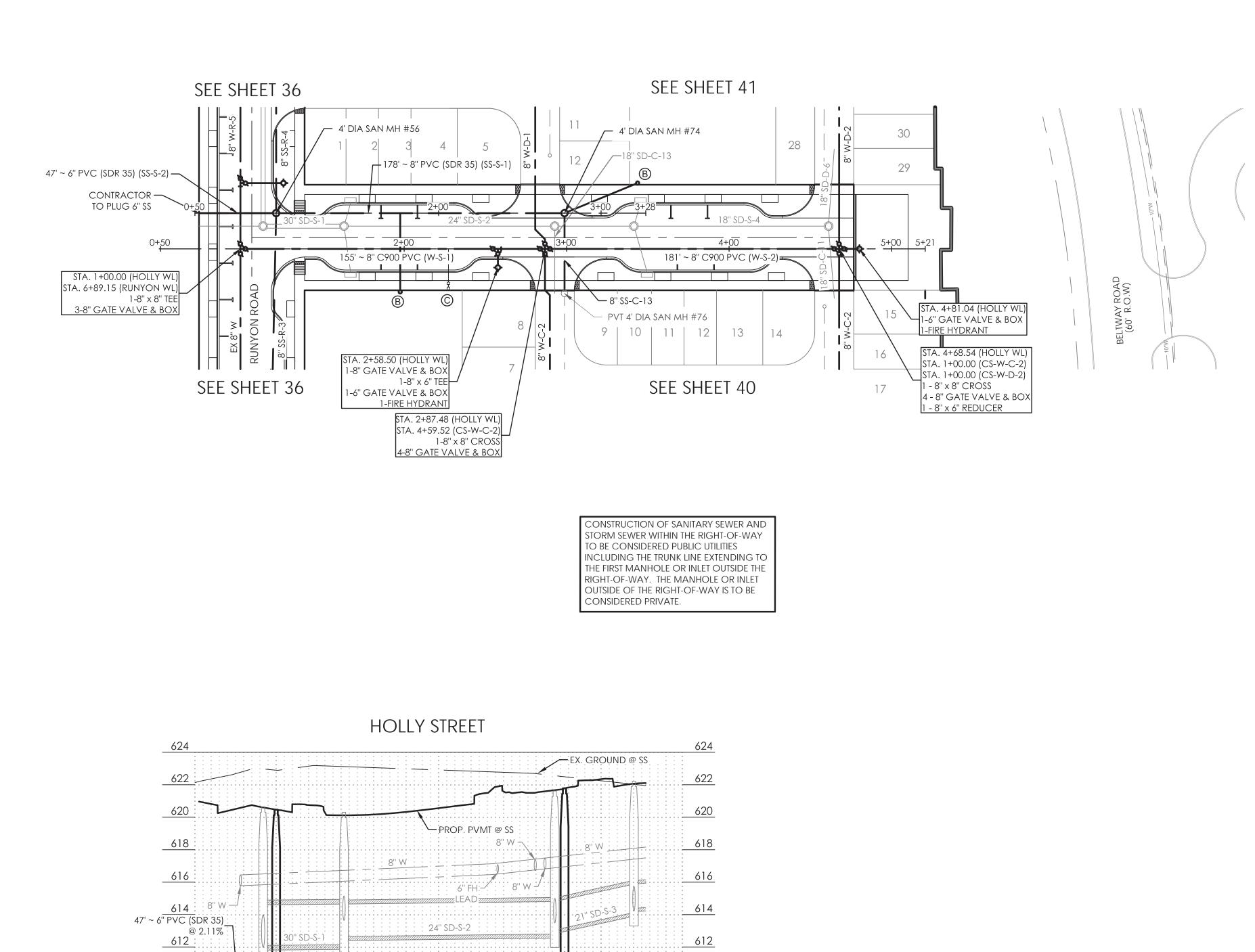


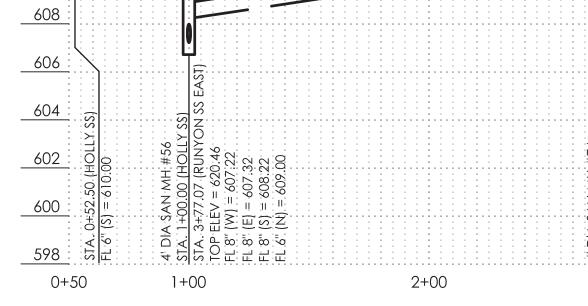


ONE-CALL NOTIFICATION SYSTEM CALL BEFORE YOU DIG 1-800-545-6005 OR OTHER UTILITY LOCATING SERVICES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES.

NO.			REVISIO	ON		BY	DATE
ADDISON TOWN OF ADDISON DALLAS COUNTY, TEXAS							
IMPROVEMENT PLANS Addison grove							
WATER LINE AND SANITARY SEWER PLAN & PROFILE- RUNYON ROAD (WEST)							
SAWYERENGINEERING, LLC TBPE: F-91711520 OLIVER STREET HOUSTON, TEXAS 77007 (832) 553-5948							
F	PROJECT	DESIGN	DRAWN	DATE	FILE	S	SHEET
		CDP	JDS	MAY 2017			35







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<u>SAN</u>	
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610

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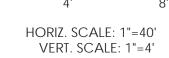
3+00

598 3+50

SANITARY SEWER AND WATERLINE LEGEND

O	• SANITARY SEWER AND MANHOLE
<u> </u>	SANITARY SEWER AND CLEANOUT
— — <u>S</u> — —	EXISTING SANITARY SEWER AND MANHOLE
	PROPOSED FIRE HYDRANT ASSEMBLY
<u> </u>	PROPOSED WATERLINE WITH GATE VALVE AND BOX WITH 10' W.L.E.
	EXISTING WATERLINE WITH GATE VALVE AND BOX
	PROPOSED STORM SEWER WITH MANHOLE AND INLETS
	PROPOSED PRIVATE STORM SEWER
0 =	EXISTING STORM SEWER AND MANHOLE
	EXISTING INLET
	PROPOSED TREE WELL
10000000 10000000	2'x6' TRUNCATED DOME PANEL
B	4" SAN. LEAD @ 1.04% WITH CLEANOUT FOR LANDSCAPE. CONTRACTOR TO MAINTAIN A MINIMUM VERTICAL SEPARATION FROM ANY OTHER UNDERGROUND UTILITY
©	2" WATERLINE WITH WATER METER AND BACKFLOW PREVENTER TO SERVE POOL

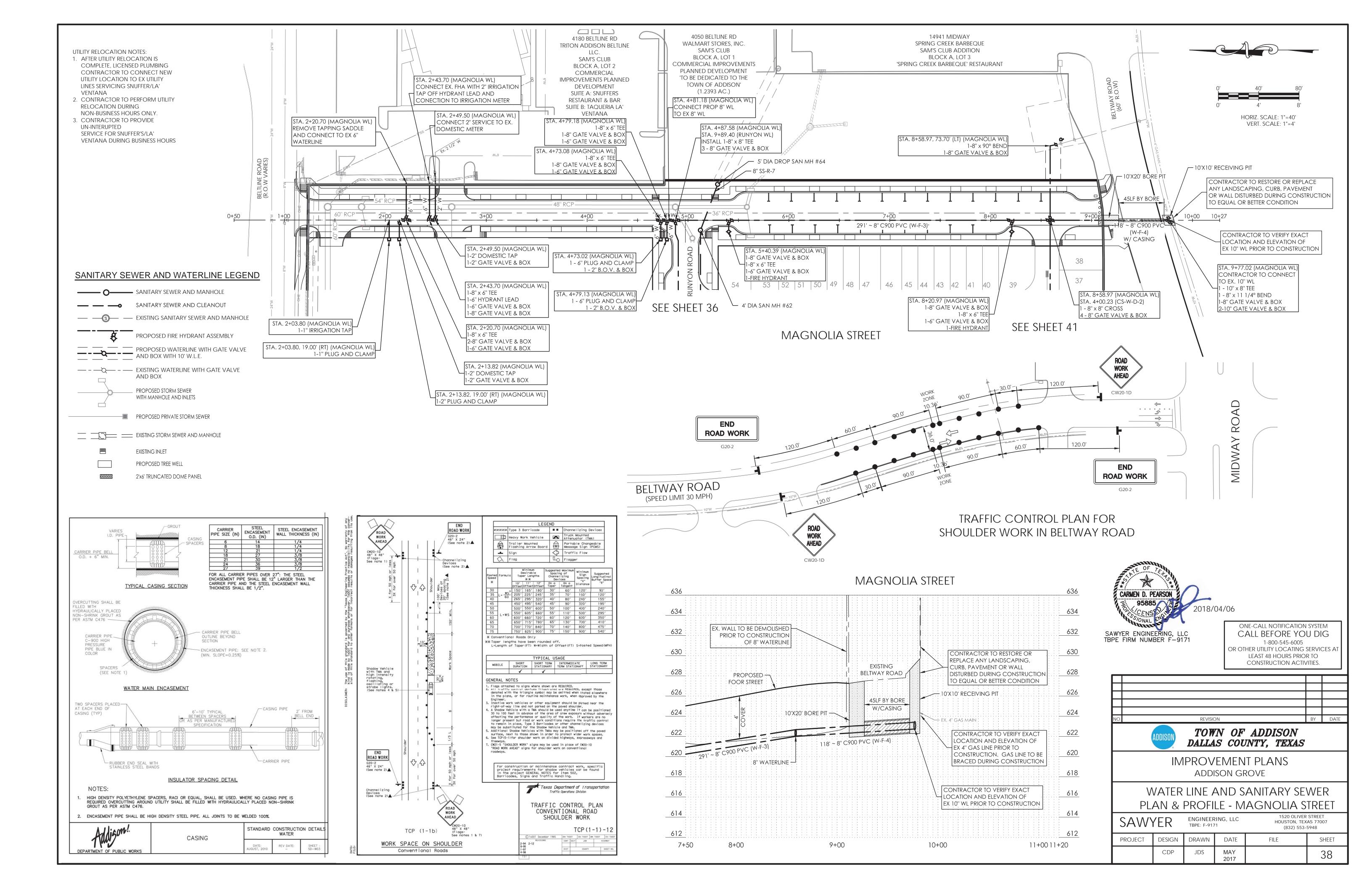


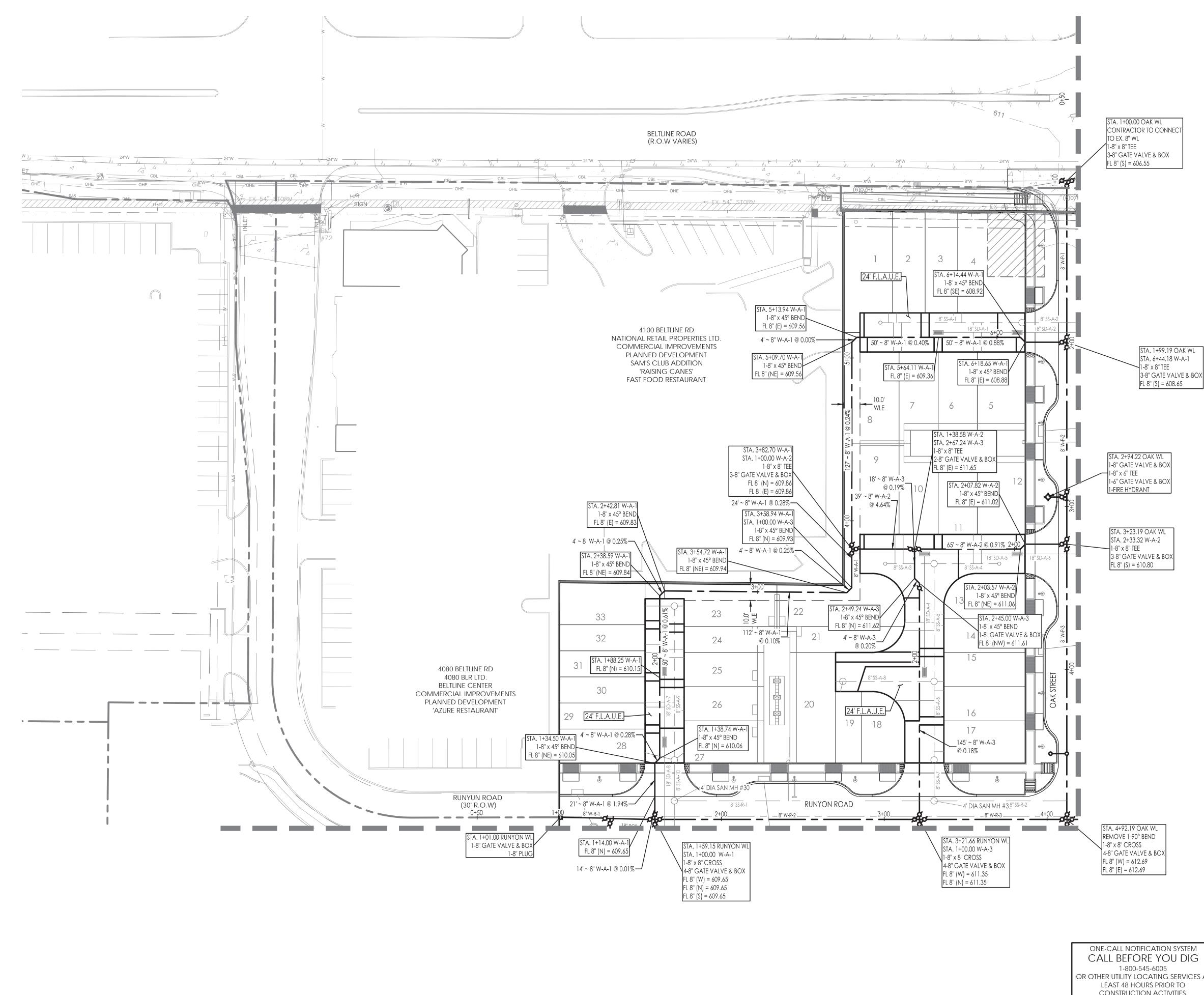




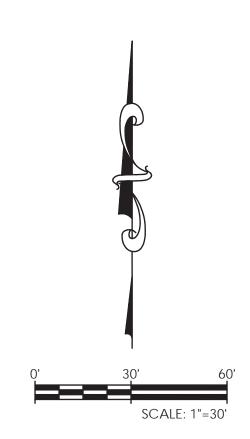
ONE-CALL NOTIFICATION SYSTEM 1-800-545-6005 OR OTHER UTILITY LOCATING SERVICES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES.

\vdash											
			REVISIO								
NO.			BY	DATE							
		ADDISON			ADDISON INTY, TEXAS						
IMPROVEMENT PLANS ADDISON GROVE											
					NITARY SEW HOLLY STREE						
	SAW	YER	ENGINEER TBPE: F-917		1520 OLIVER HOUSTON, TEX (832) 553-	(AS 770	-				
F	PROJECT	FILE	S	HEET							
		CDP	JDS	MAY 2017			37				

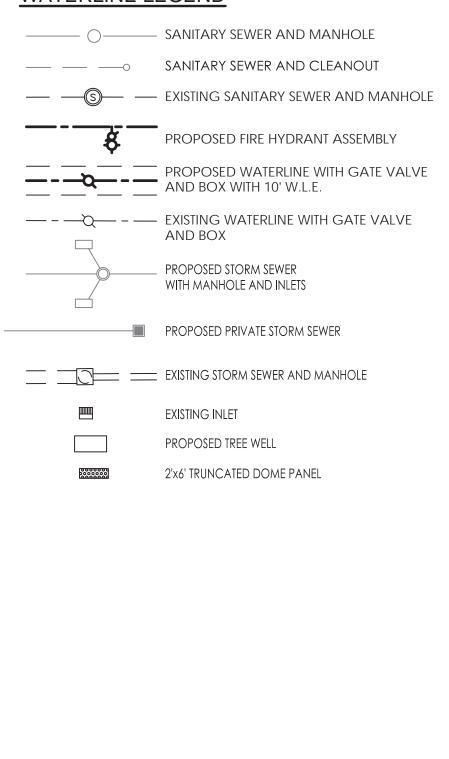




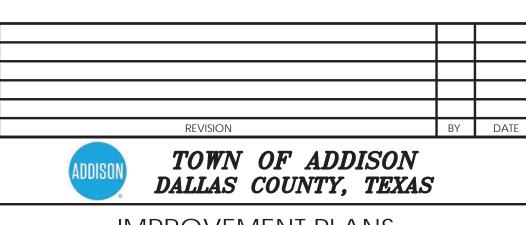
ONE-CALL NOTIFICATION SYSTEM CALL BEFORE YOU DIG OR OTHER UTILITY LOCATING SERVICES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES.



WATERLINE LEGEND



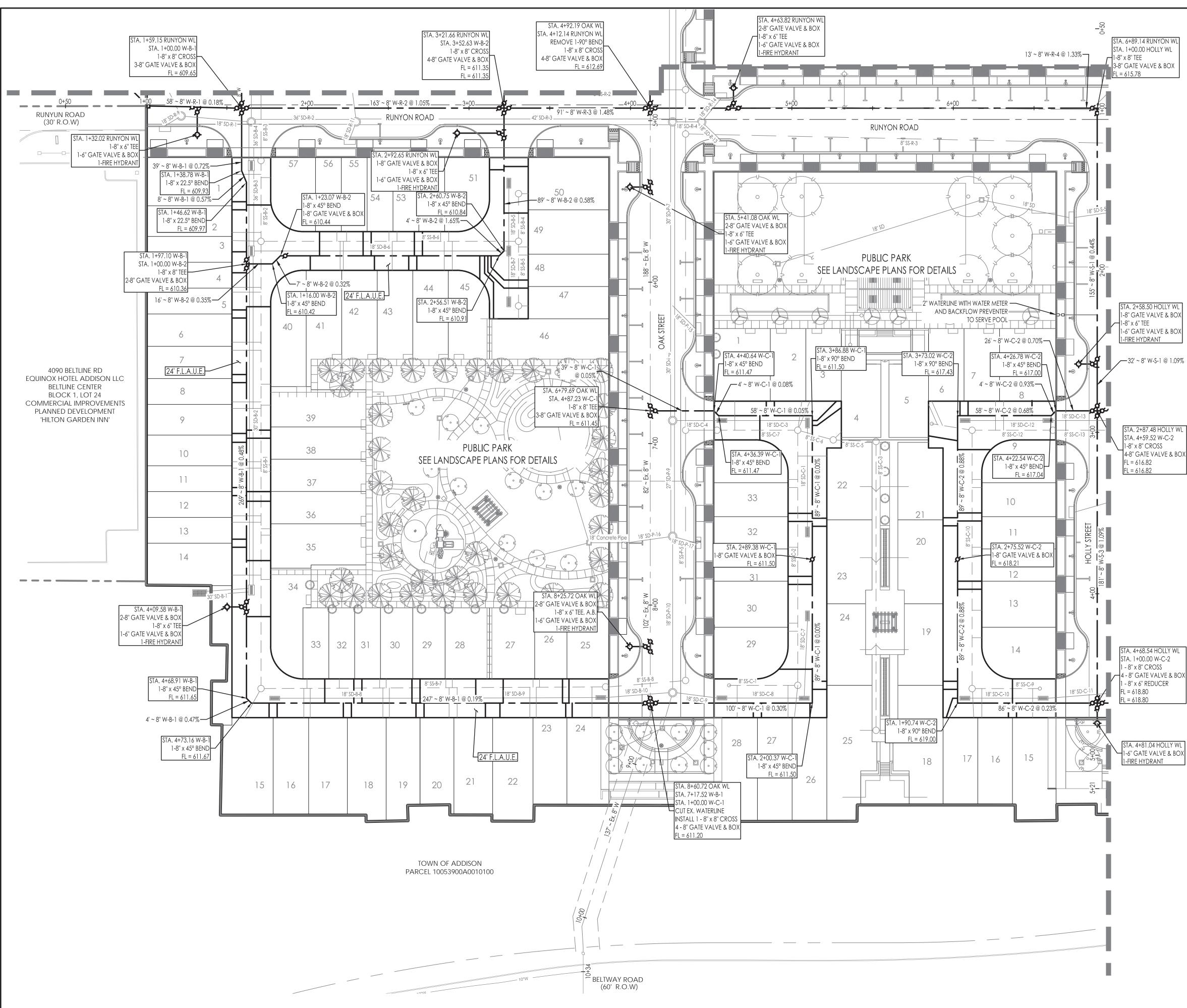


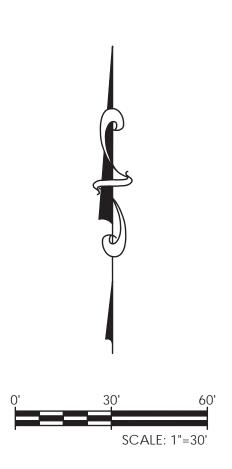


IMPROVEMENT PLANS ADDISON GROVE

PUBLIC WATER BLOCK A

SAW	YER	ENGINEER TBPE: F-917	-	1520 OLIVER HOUSTON, TEX (832) 553-	AS 77007
PROJECT	PROJECT DESIGN		DATE	FILE	SHEET
	CDP	JDS	MAY 2017		39





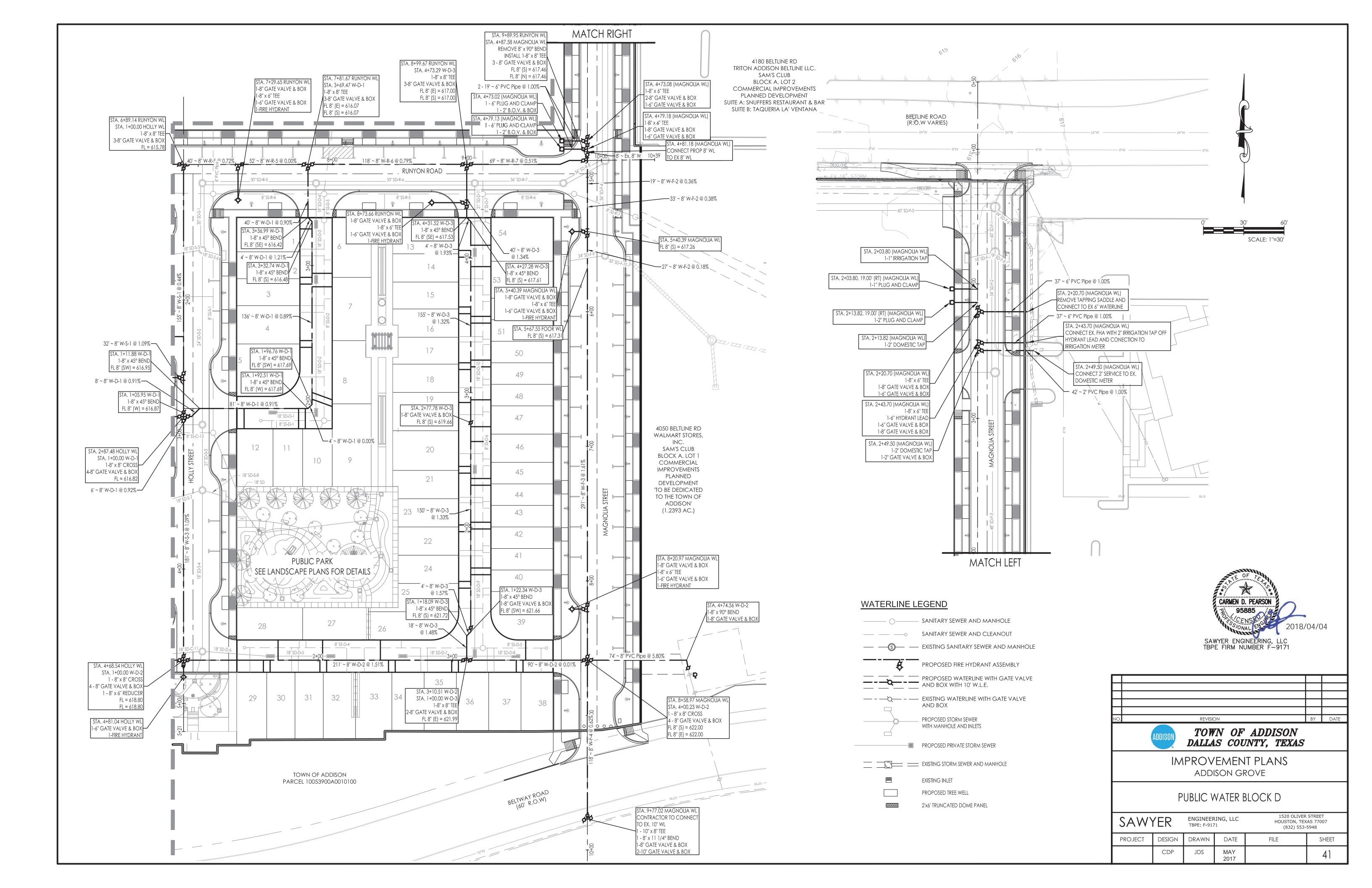
87.48 HOLLY WL
59.52 W-C-2
' CROSS
TE VALVE & BOX
6.82
6.82

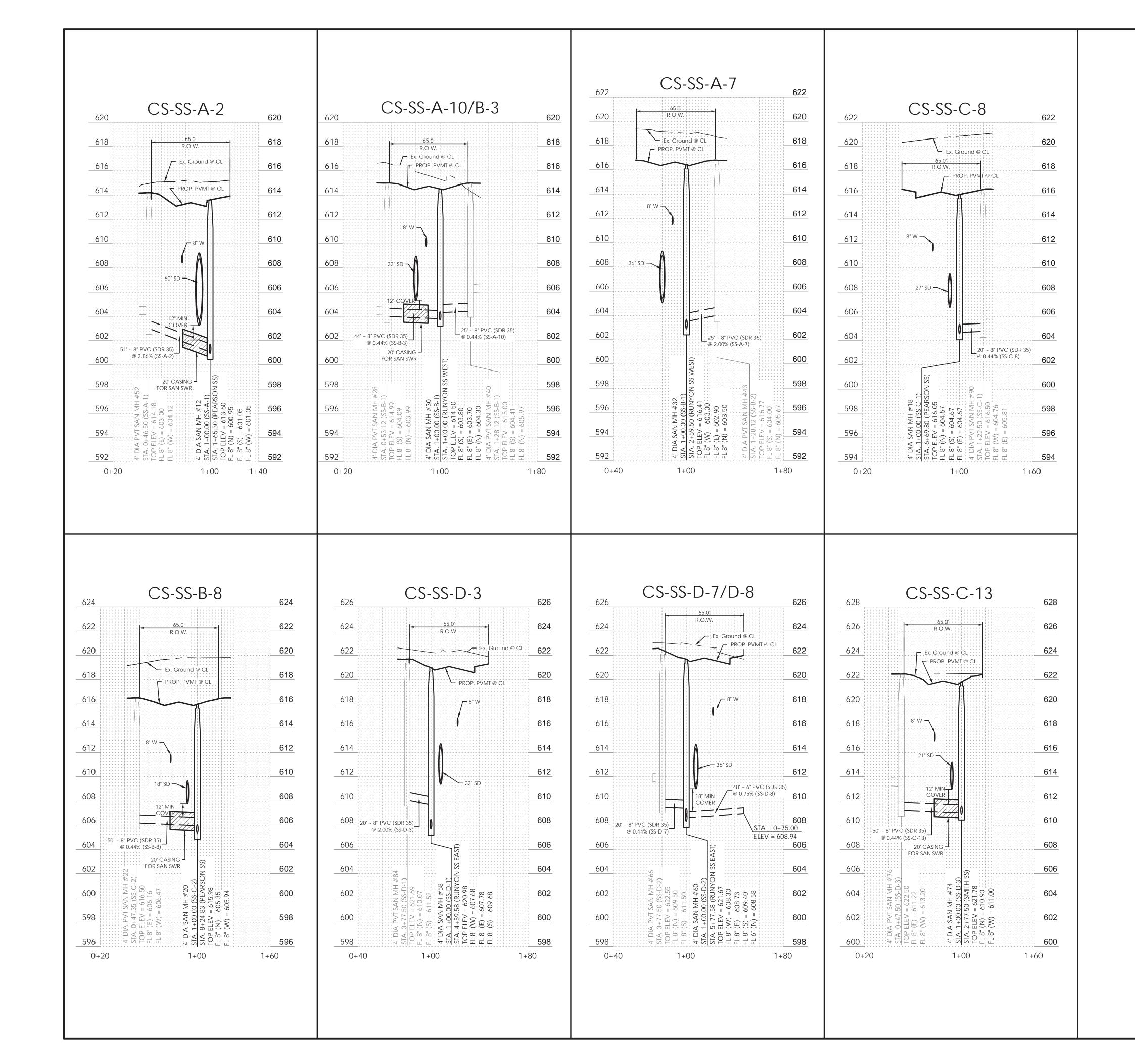
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 <u></u> ~	_
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WATERLINE LEGEND _____ SANITARY SEWER AND MANHOLE SANITARY SEWER AND CLEANOUT - EXISTING SANITARY SEWER AND MANHOLE PROPOSED FIRE HYDRANT ASSEMBLY PROPOSED WATERLINE WITH GATE VALVE AND BOX WITH 10' W.L.E. - EXISTING WATERLINE WITH GATE VALVE AND BOX PROPOSED STORM SEWER with manhole and inlets PROPOSED PRIVATE STORM SEWER EXISTING STORM SEWER AND MANHOLE **EXISTING INLET** PROPOSED TREE WELL 2'x6' TRUNCATED DOME PANEL



	TOWN OF ADDISON DALLAS COUNTY, TEXAS IMPROVEMENT PLANS ADDISON GROVE PUBLIC WATER BLOCK B & C SAWYER Engineering, LLC TBPE: F-9171 PROJECT DESIGN DRAWN DATE FILE SHEE											
		TOWN OF ADDISON DALLAS COUNTY, TEXAS MPROVEMENT PLANS ADDISON GROVE										
NO.		REVISIO	NC		BY	DATE						
	ADDISON											
	IM			,								
	PUE	BLIC WA	TER BLO	OCK B & C								
SAWYFR ENGINEERING, LLC HOUSTON, TEXAS 77007												
PROJECT	DESIGN	DRAWN	DATE	FILE	S	HEET						
	CDP	JDS	MAY 2017			40						

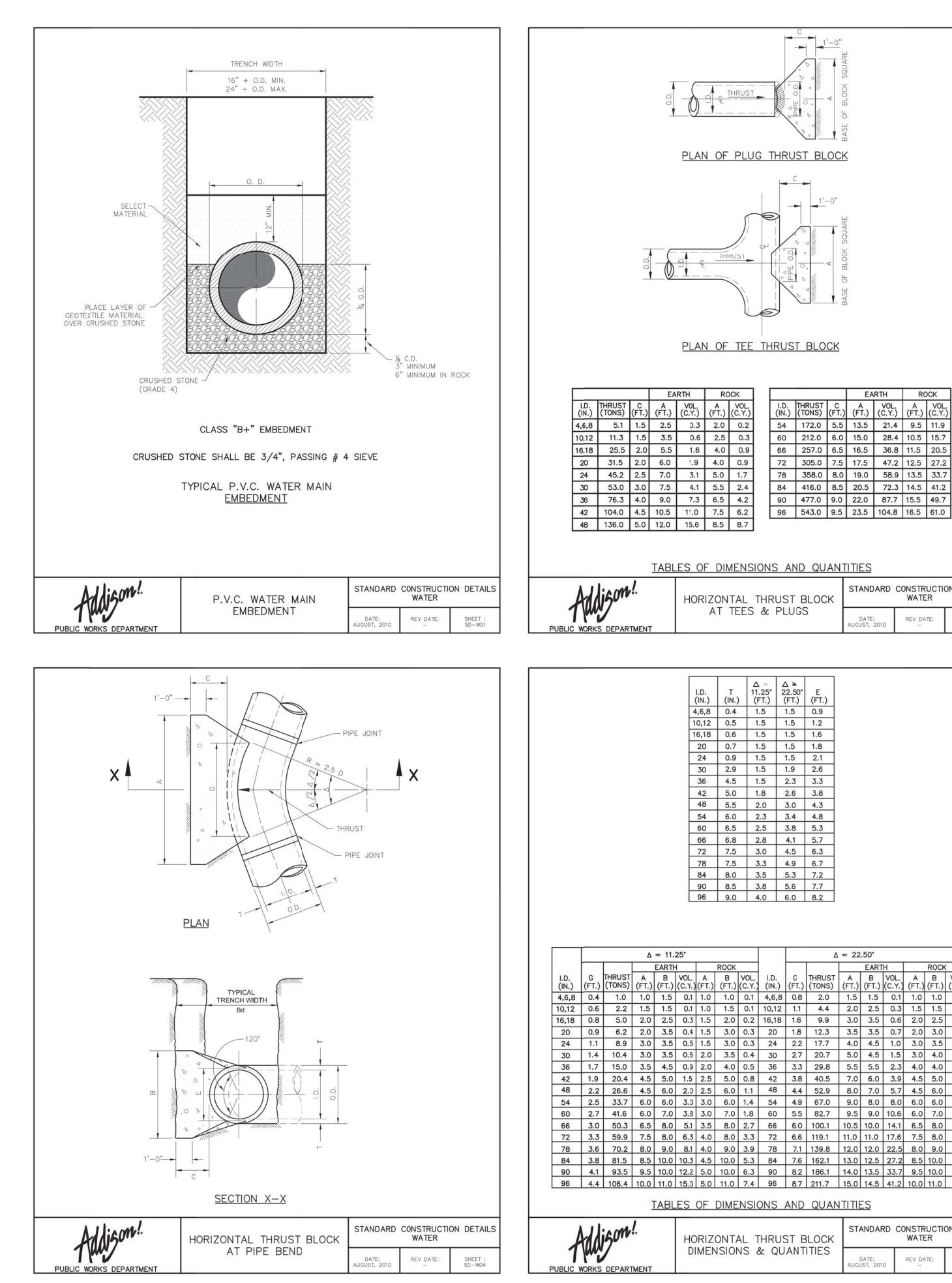




BY DATE REVISION TOWN OF ADDISON DALLAS COUNTY, TEXAS IMPROVEMENT PLANS ADDISON GROVE SANITARY SEWER CROSSING PROFILES 1520 OLIVER STREET HOUSTON, TEXAS 77007 ENGINEERING, LLC TBPE: F-9171 SAWYER (832) 553-5948 PROJECT DESIGN DRAWN DATE FILE SHEET CDP JDS MAY 42 2017

CARMEN D. PEARSON 95885 017/12/19

SAWYER ENGINEERING, LLC TBPE FIRM NUMBER F-9171

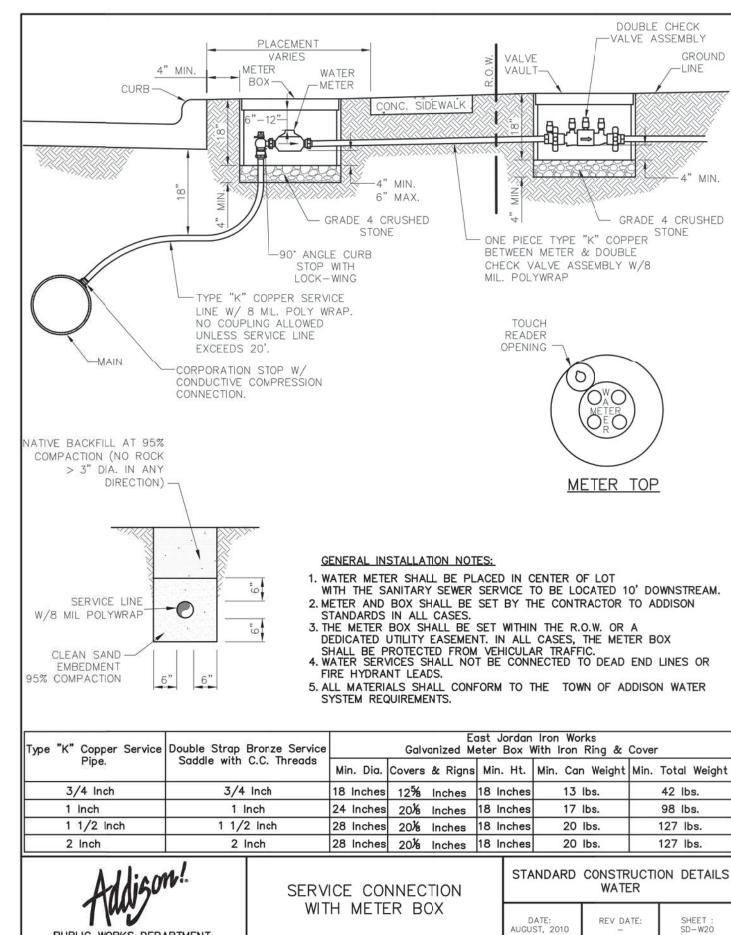


3	2.0	0.2	54	1/2.0	5.5	13.5	21.4	9.5	11.9
.6	2.5	0.3	60	212.0	6.0	15.0	28.4	10.5	15.7
6	4.0	0.9	66	257.0	6.5	16.5	36.8	11.5	20.5
9	4.0	0.9	72	305.0	7.5	17.5	47.2	12.5	27.2
1	5.0	1.7	78	358.0	8.0	19.0	58.9	13.5	33.7
1	5.5	2.4	84	416.0	8.5	20.5	72.3	14.5	41.2
3	6.5	4.2	90	477.0	9.0	22.0	87.7	15.5	49.7
0	7.5	6.2	96	543.0	9.5	23.5	104.8	16.5	61.0
6	8.5	87							

ORIZONTAL THRUST BLOCK AT TEES & PLUGS	STANDARD	CONSTRUCTION WATER	ON DETAILS
AT TEES & PLUGS	DATE: AUGUST, 2010	REV DATE:	SHEET : SD-W07

		á			
I.D. (IN.)	T (IN.)	△ = 11.25* (FT.)	∆ ≥ 22.50* (FT.)	Е (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	

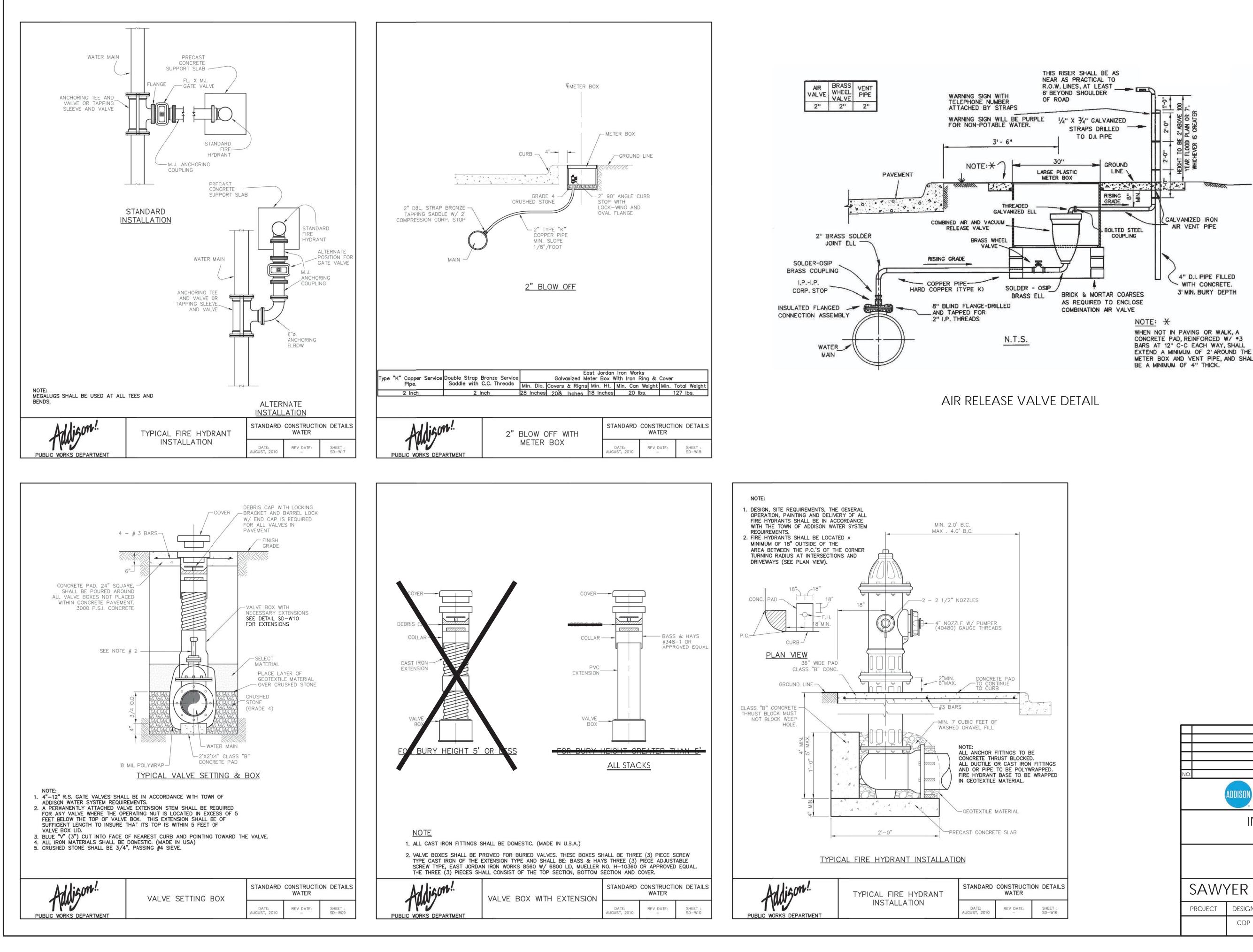
										ġ		63	
e î						Δ	= 22	.50*					
		ROCK						EART	н		ROCK		
DL. .Y.)	A (FT.)	В (FT.)	VOL. (C.Y.)	I.D. (IN.)	G (FT.)	THRUST (TONS)	A (FT.)	В (FT.)	VOL. (C.Y.)	A (FT.)	В (FT.)	VOL. (C.Y.)	
D.1	1.0	1.0	0.1	4,6,8	0.8	2.0	1.5	1.5	0.1	1.0	1.0	0.1	
D.1	1.0	1.5	0.1	10,12	1.1	4.4	2.0	2.5	0.3	1.5	1.5	0.1	
).3	1.5	2.0	0.2	16,18	1.6	9.9	3.0	3.5	0.6	2.0	2.5	0.3	
).4	1.5	3.0	0.3	20	1.8	12.3	3.5	3.5	0.7	2.0	3.0	0.4	
).5	1.5	3.0	0.3	24	2.2	17.7	4.0	4.5	1.0	3.0	3.5	0.5	
).6	2.0	3.5	0.4	30	2.7	20.7	5.0	4.5	1.5	3.0	4.0	0.8	
).9	2.0	4.0	0.5	36	3.3	29.8	5.5	5.5	2.3	4.0	4.0	1.3	
.5	2.5	5.0	0.8	42	3.8	40.5	7.0	6.0	3.9	4.5	5.0	2.1	
2.0	2.5	6.0	1.1	48	4.4	52.9	8.0	7.0	5.7	4.5	6.0	2.8	
5.0	3.0	6.0	1.4	54	4.9	67.0	9.0	8.0	8.0	6.0	6.0	4.1	
5.8	3.0	7.0	1.8	60	5.5	82.7	9.5	9.0	10.6	6.0	7.0	5.3	
5.1	3.5	8.0	2.7	66	6.0	100.1	10.5	10.0	14.1	6.5	8.0	7.2	
5.3	4.0	8.0	3.3	72	6.6	119.1	11.0	11.0	17.6	7.5	8.0	9.1	
3.1	4.0	9.0	3.9	78	7.1	139.8	12.0	12.0	22.5	8.0	9.0	11.7	
).3	4.5	10.0	5.3	84	7.6	162.1	13.0	12.5	27.2	8.5	10.0	14.8	
2.2	5.0	10.0	6.3	90	8.2	186.1	14.0	13.5	33.7	9.5	10.0	17.7	
i.0	5.0	11.0	7.4	96	8.7	211.7	15.0	14.5	41.2	10.0	11.0	21.8	
5	OF	DIME	NSI	ONS	AND	QUAN		S					
	2.												
						LOCK	ST	ANDAF	RD CO	NSTR WATE		ON DET	TAILS
DI	MEN	12101	VS 8	& QU	ANT	ITIES		DATE: JST, 201	0	REV DA	NTE:	SHEE SD-V	



PUBLIC WORKS DEPARTMENT

	F			70	•							45	•				
	$\Delta = 30^{\circ}$								Δ	= 45			-				
1.D.	G	THRUST (TONS)		EARTI	VOL.	Α	B	VOL.	I.D.	G	THRUST	A	EART B	VOL.	(FT)	ROCK	VOL.
(IN.) 4,6,8	1.0	2.6	(FT.) 2.0	1.5	(C.Y.) 0.2	1.0	1.5	(C.Y.) 0.1		(FT.) 1.5	(TONS) 3.9	(FT.) 2.0	2.0	(C.Y.) 0.2	(FT.) 1.5	(FT.) 1.5	(C.Y.
10,12	1.5	5.9	2.5	2.5	0.2	2.0	1.5	0.1		2.2	8.7	3.5	2.5	0.2	2.0	2.5	0.
16,18	2.2	13.2	3.5	4.0	0.3	2.5	3.0	0.2		3.2	19.5	4.5	4.5	1.2	3.0	3.5	0.
20	2.4	16.3	4.5	4.0	1.0	3.0	3.0	0.5	20	3.6	24.1	5.5	4.5	1.5	3.5	3.5	0.
24	2.9	23.4	6.0	4.0	1.4	3.5	3.5	0.7	24	4.3	34.6	8.0	4.5	2.3	4.5	4.0	1.
30	3.6	27.5	6.5	5.0	1.9	3.5	4.0	0.9	30	5.4	40.6	8.5	5.0	3.2	5.5	4.0	1.
36	4.4	39.5	7.0	6.0	3.4	4.5	4.5	1.6	36	6.5	58.5	10.0	6.0	5.3	6.5	4.5	2.
42	5.1	53.8	8.0	7.0	5.1	5.5	5.0	2.5	42	7.5	79.6	11.5	7.0	8.1	8.0	5.0	4.
48	5.8	70.3	9.0	8.0	7.4	6.0	6.0	3.7	48	8.6	104.0	13.0	8.0	11.9	9.0	6.0	6.
54	6.5	89.0	10.0	9.0	10.3	7.0	6.5	5.3	54	9.7	131.5	15.0	9.0	17.1	10.5	6.5	8.
60	7.3	110.0	11.0	10.0	13.9	7.5	7.5	7.3	60	10.7	162.4	16.5	10.0	23.1	11.0	7.5	12.
66	8.0	132.9	12.5	11.0	18.9	8.5	8.0	9.6	66	11.8	196.5	18.0	11.0	30.1		8.5	16.
72	8.7	158.2	13.5	12.0	24.0	9.0	9.0	12.3	72	12.9	233.9	1	12.0		14.0	8.5	20
78	9.4	185.6	14.5	13.0	30.0	10.0	9.5	15.6	78	13.9	274.5		13.0	49.8		9.5	25
84	10.1	215.3	15.5	14.0	37.1	10.5	10.5	19.5	84	15.0	318.4	23.0	14.0	61.2	15.5	10.5	32
90	10.9	247.1	16.5	15.0	45.0	11.5	11.0	23.9	90	16.1	365.5		15.0	74.5		10.5	39
96	11.6	281.2	18.0	16.0			11.5	28.9	96	17.1	415.6	1	16.0	10000000	A		48
	Δ = 67.50* EARTH ROCK										Δ	= 90	eart	าม		ROCK	•
I.D.	G	THRUST	A	B	VOL.	A	B	VOL.	LD.	I.D. G THRUST	A B VOL. A				B	VOI	
(IN.)		(TONS)	(FT.)		(C.Y.)	(FT.)	(FT.)	(C.Y.)		(FT.)		(FT.)	(FT.)	(C.Y.)		(FT.)	
4,6,8	2.1	5.6	3.0	2.0	0.3	2.0	1.5	0.2	4,6,8	2.7	7.1	5.0	1.5	0.4	2.0	2.0	0.
10,12	3.1	12.6	5.5	2.5	0.8	3.5	2.0	0.4	10,12	4.0	16.0	6.5	2.5	1.0	3.5	2.5	0.
16,18	4.7	28.3	7.5	4.0	1.9	5.5	3.0	0.9	16,18	6.0	36.0	9.0	4.0	2.4	4.5	4.0	1.
20	5.2	34.9	9.0	4.0	2.3	5.5	3.5	1.2	20	6.6	44.4	10.0	4.5	3.1	6.0	4.0	1.
24	6.2	50.3	11.5	4.5	3.5	6.5	4.0	1.6	24	7.9	64.0	14.5	4.5	5.0	8.0	4.0	2
30	7.8	58.9	12.0	5.0	4.8	7.5	4.0	2.2	30	9.9	75.0	15.0	5.0	6.7	10.0	4.0	3
36	9.4	84.9	14.5	6.0	8.2	9.5	4.5	3.8	36	11.9	108.0	18.0	6.0	11.4	12.0	4.5	5.
42	10.9	115.5	17.0	7.0	12.8	11.0	5.5	6.3	42	13.9	147.0	21.0	7.0	17.8	14.0	5.5	8
48	12.5	150.9	19.0	8.0	18.4	13.0	6.0	9.2	48	15.9	192.0	24.0	8.0	26.2	16.0	6.0	12
54	14.0	191.0	21.5	9.0		15.0	6.5	12.9	54	17.9	243.0		9.0		18.0		
60	15.6	235.8	24.0	10.0	35.6	16.0	7.5	17.6	60	19.9	299.8	30.0	10.0	50.3	20.0	-	-
66	17.1	285.3	26.0			18.0	8.0	23.0	66	21.8	362.8	33.0	11.0	66.2	2 22.0	8.5	
72	18.7	339.5	28.5			19.0	9.0	28.4	72	23.8				85.6	-	-	-
78	20.2	398.5	31.0			21.0	9.5	37.4	78	25.7	506.7			108.2		10.0	
84	21.8	462.1	33.5			22.0		46.5	84	27.7	587.7			134.4		10.5	-
90	23.3	530.5	35.5	15.0	114.4	24.5	11.0	58.2	90	29.0	674.6	45.0	15.0	164.9	30.0	11.5	81.
96	24.9	603.6	38.0	16.0	138.9	25.5	12.0	70.0	96	31.6	767.5	48.0	16.0	199.0	32.0	12.0	95
				TA	BLES	<u>OF</u>	DIM	ENSI	ONS /	AND	QUANT	ITIES					
l	VI	150m	<u>!</u> .		нс	RIZ	DNT/	AL T	HRUS	ST E	LOCK	ST	ANDA	RD CC	NSTR WATE		ON D
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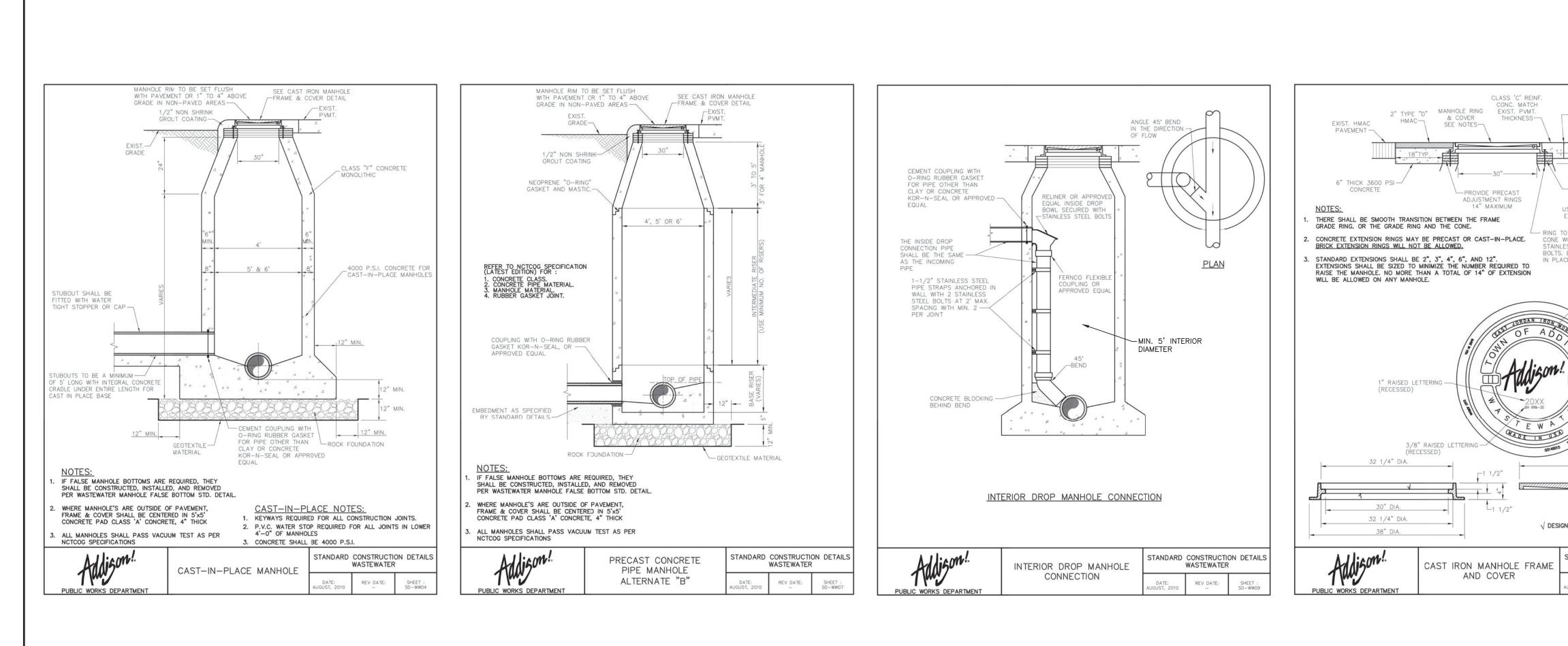
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			Ċ	RMEN D. PE 95885	ARSON	
			PRO	95885	2017/	12/19
			SAWYE	R ENGINEE	ERING, LLC	
			TBPE F	IRM NUMB	ERING, LLC ER F-9171	
	—					++-
	NO.		REVISIO	ON		BY DATE
		ADDISON	TOW	N OF	ADDISON	
					INTY, TEXA	5
		IIV		'EMEN ISON GF	t plans Rove	
		V	VAIER	LINE	DETAILS	
5	SAW	YER	ENGINEER TBPE: F-917	RING, LLC	HOUSTON,	/ER STREET TEXAS 77007 53-5948
	PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
		CDP	JDS	MAY 2017		43

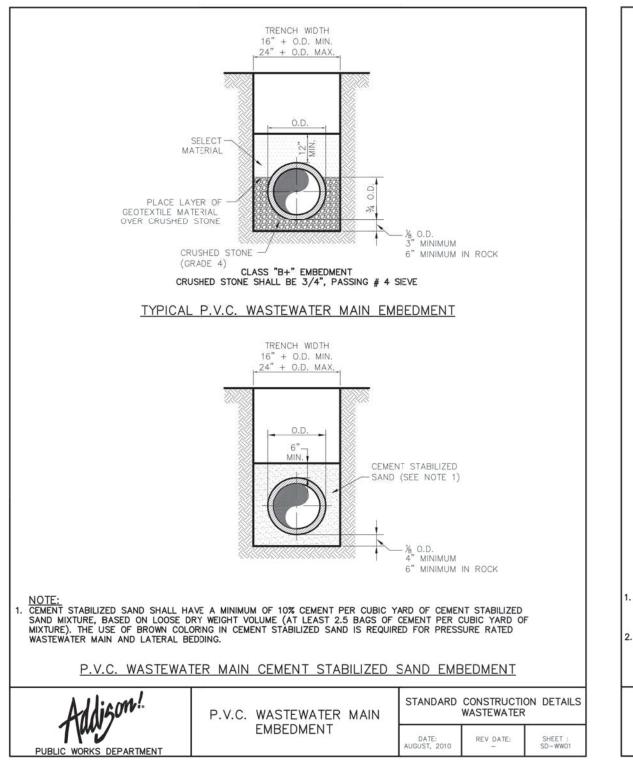


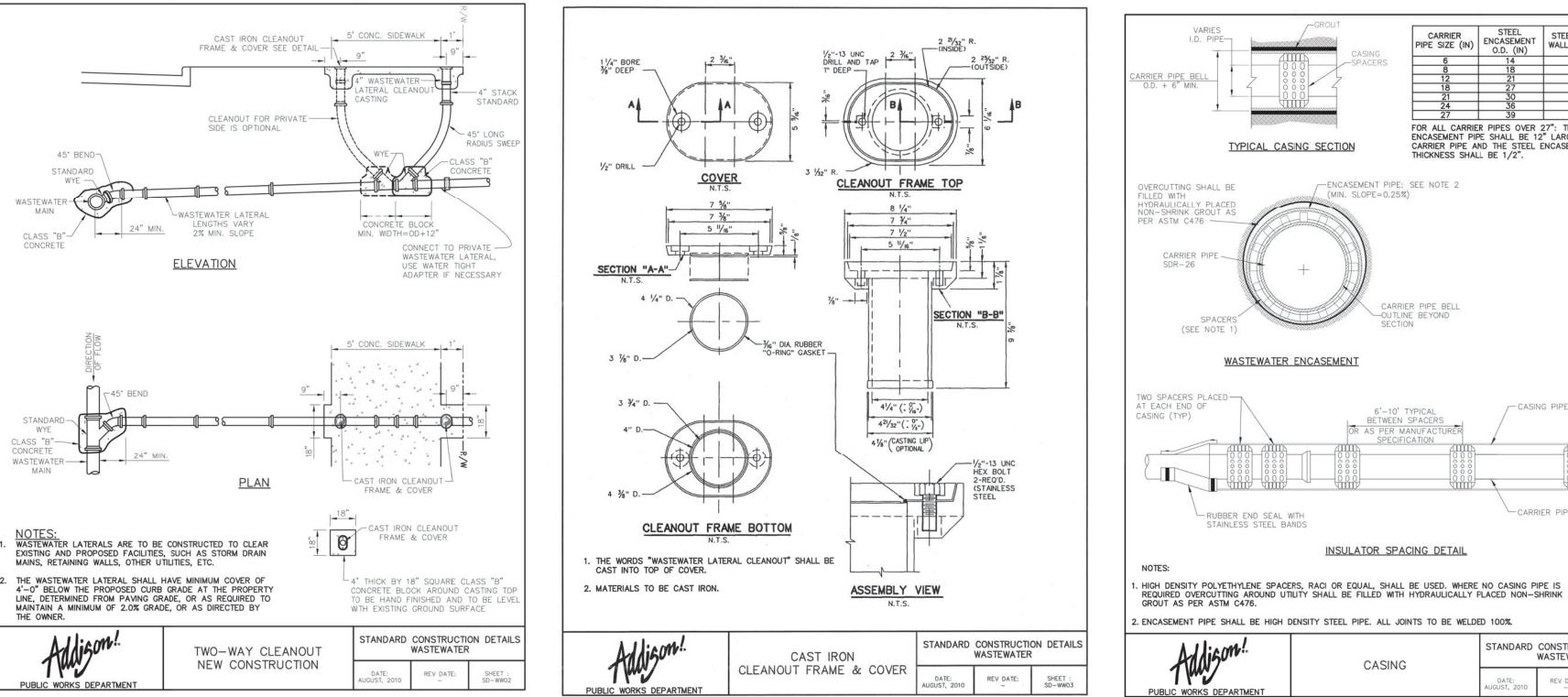
METER BOX AND VENT PIPE, AND SHALL

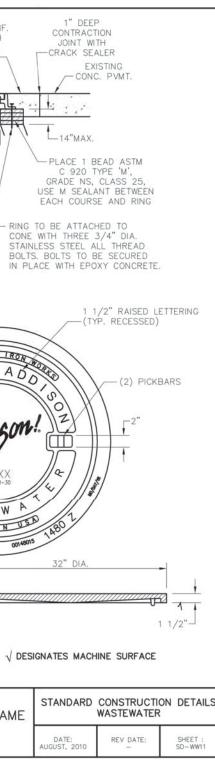


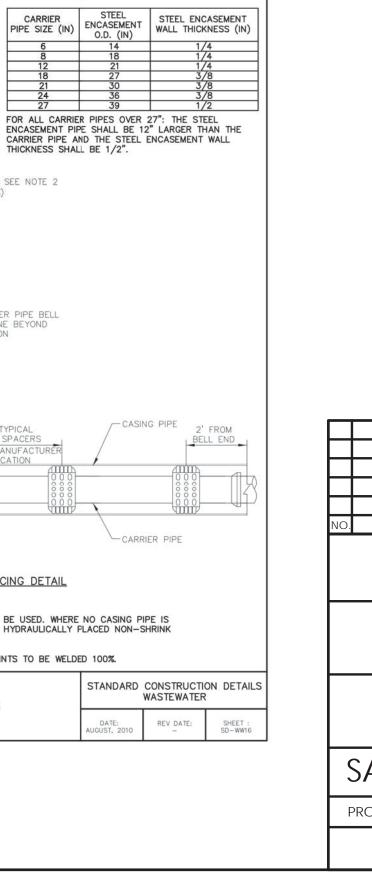
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NO.			REVISIO	DN			BY	DATE
	ADDISON DALLAS COUNTY, TEXAS							
	IMPROVEMENT PLANS Addison grove							
	WATER LINE DETAILS							
SAWYERENGINEERING, LLC TBPE: F-91711520 OLIVER STREET HOUSTON, TEXAS 77007 (832) 553-5948								
PF	ROJECT	DESIGN	DRAWN	DATE	FIL	LE	S	HEET
		CDP	JDS	MAY 2017				44













SAWYER ENGINEERING, LLC TBPE FIRM NUMBER F-9171

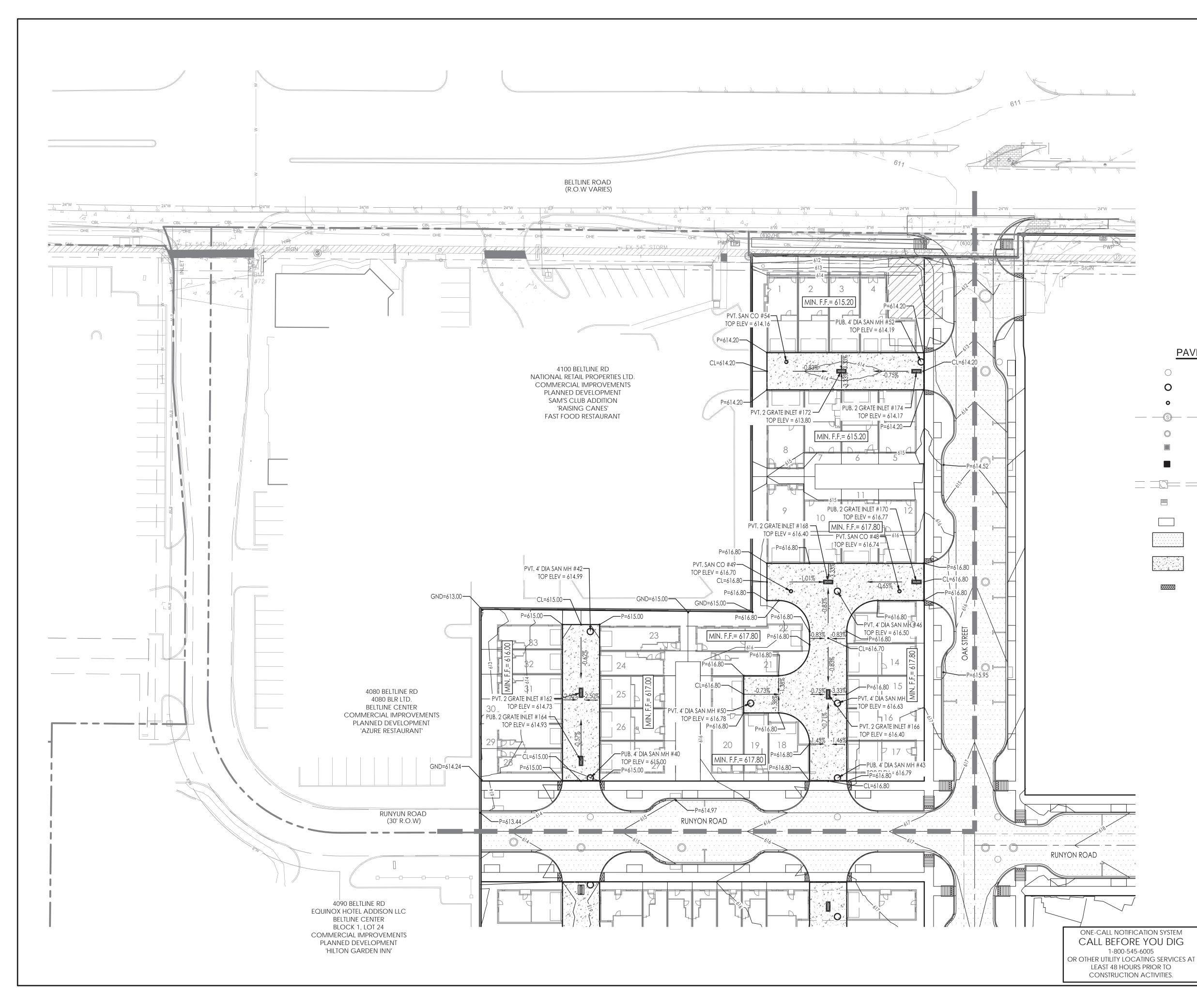
REVISION BY DATE

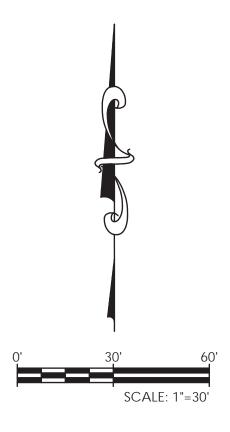
DALLAS COUNTY, TEXAS

IMPROVEMENT PLANS ADDISON GROVE

SANITARY SEWER DETAILS

SAWYER		ENGINEERING, LLC TBPE: F-9171		1520 OLIVER STREET HOUSTON, TEXAS 77007 (832) 553-5948		
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET	
	CDP	JDS	MAY 2017		45	



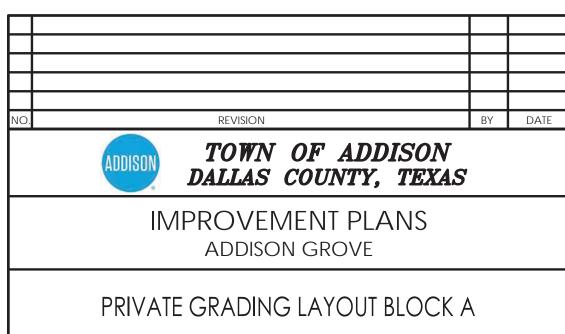


BLOCH	< A						
	PVMT ELEV. @						
LOT	GARAGE						
1	614.20						
2	614.20						
3	614.20						
4	614.20						
5	614.20						
6	614.20						
7	614.20						
8	614.20						
9	616.80						
10	616.80						
11	616.80						
12	616.80						
13	616.80						
14	616.80						
15	616.80						
16	616.80						
17	616.80						
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31	615.00						
32	615.00						
33	615.00						

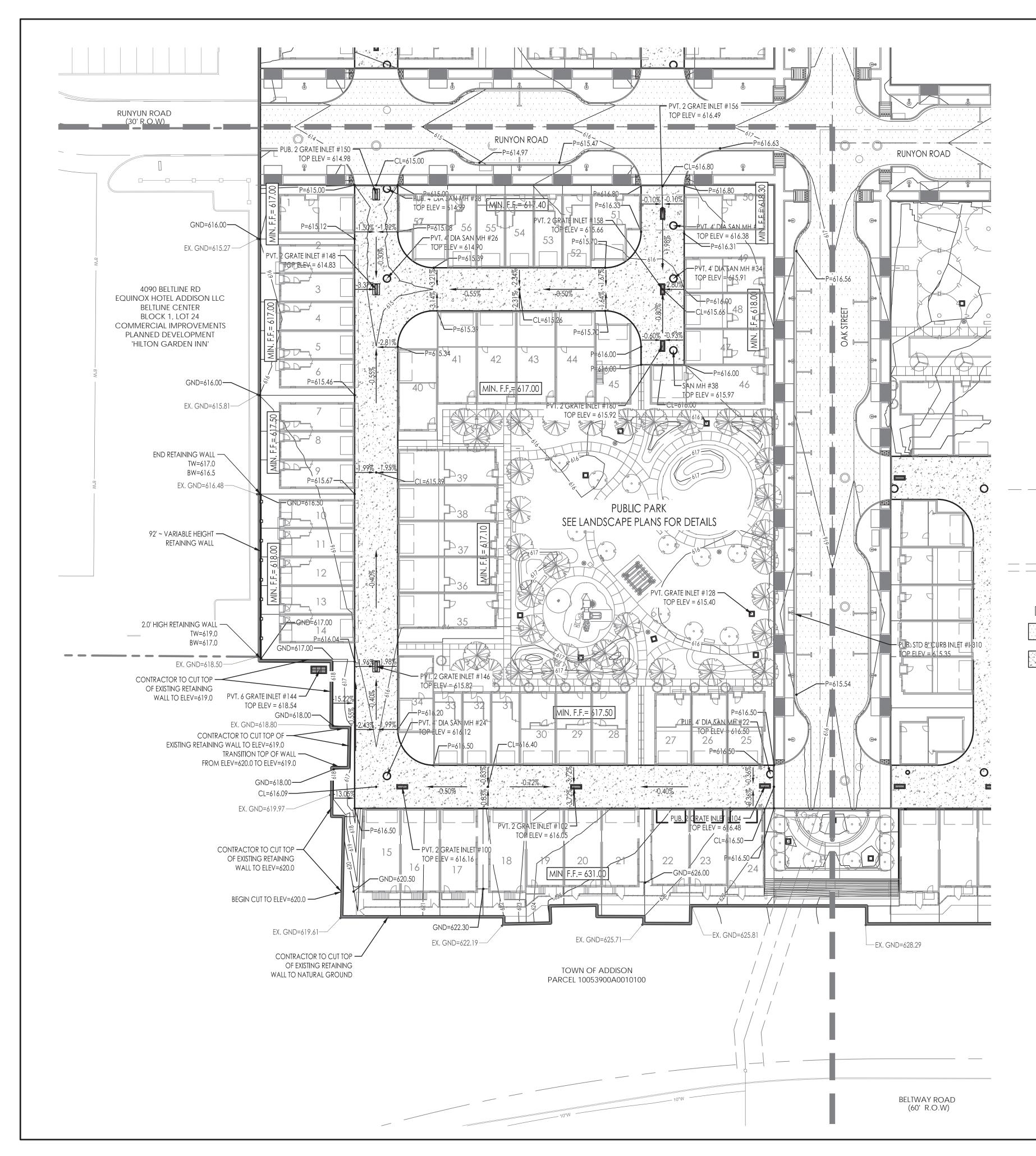
PAVING LEGEND

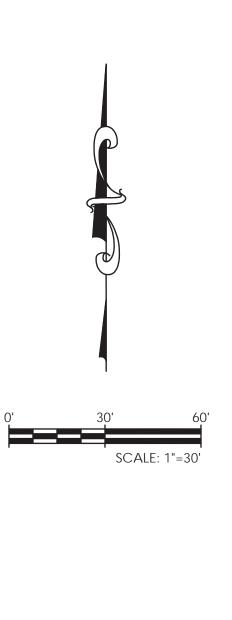
\bigcirc	PUBLIC SANITARY SEWER MANHOLE
0	PRIVATE SANITARY SEWER MANHOLE
0	PRIVATE SANITARY SEWER CLEANOUT
— <u> </u>	EXISTING SANITARY SEWER MANHOLE
\bigcirc	PUBLIC STORM SEWER MANHOLE
	PUBLIC STORM SEWER INLET
	PRIVATE STORM SEWER INLET
	existing storm sewer and manhole
	EXISTING INLET
	PROPOSED TREE WELL
	PUBLIC R.O.W. FIRE LANE ACCESS
	CONCRETE PRIVATE DRIVE- 24.00' FIRE LANE ACCESS AND UTILITY EASEMENT
6000000 6000000	2'x6' TRUNCATED DOME PANEL





SAWYER		ENGINEERING, LLC TBPE: F-9171		1520 OLIVER STREET HOUSTON, TEXAS 77007 (832) 553-5948		
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET	
	CDP	JDS	MAY 2017		46	



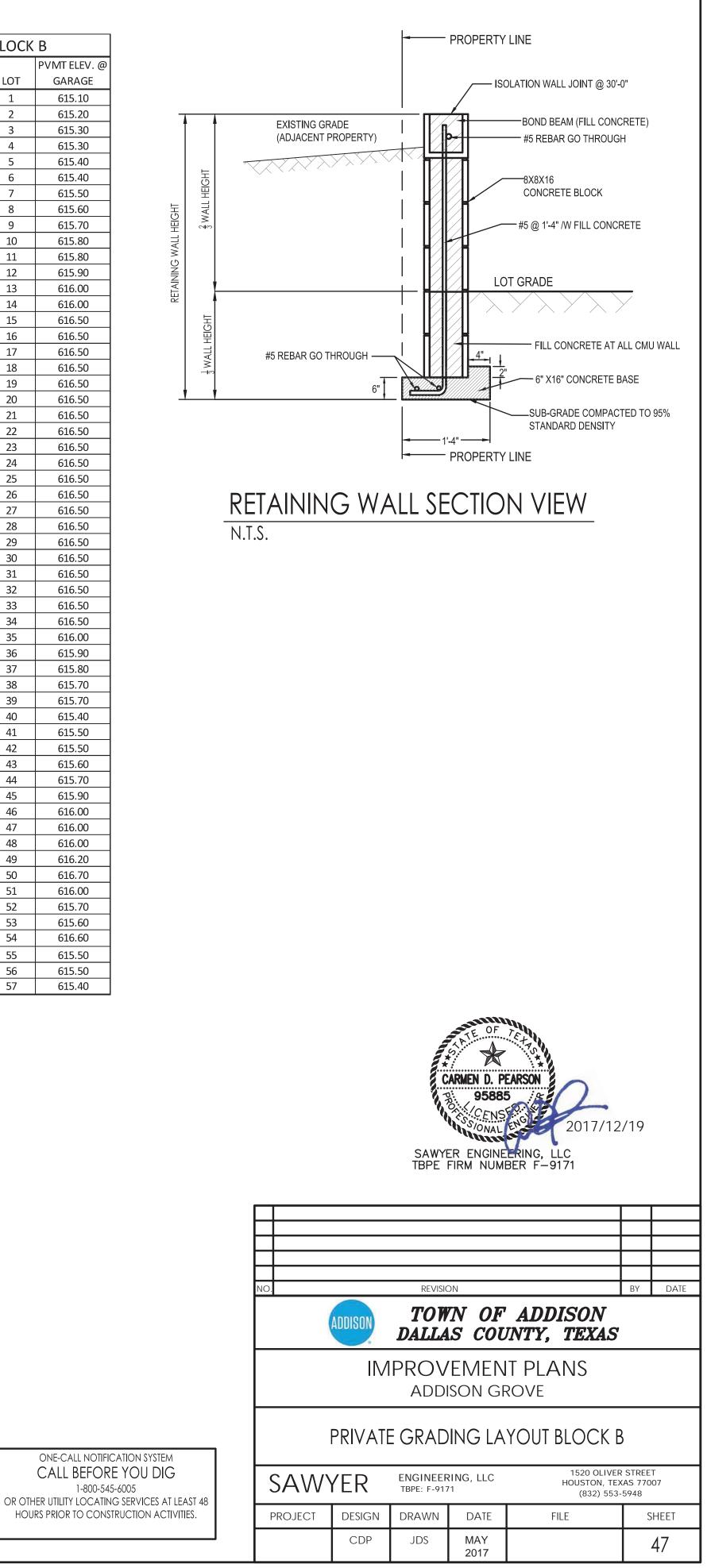


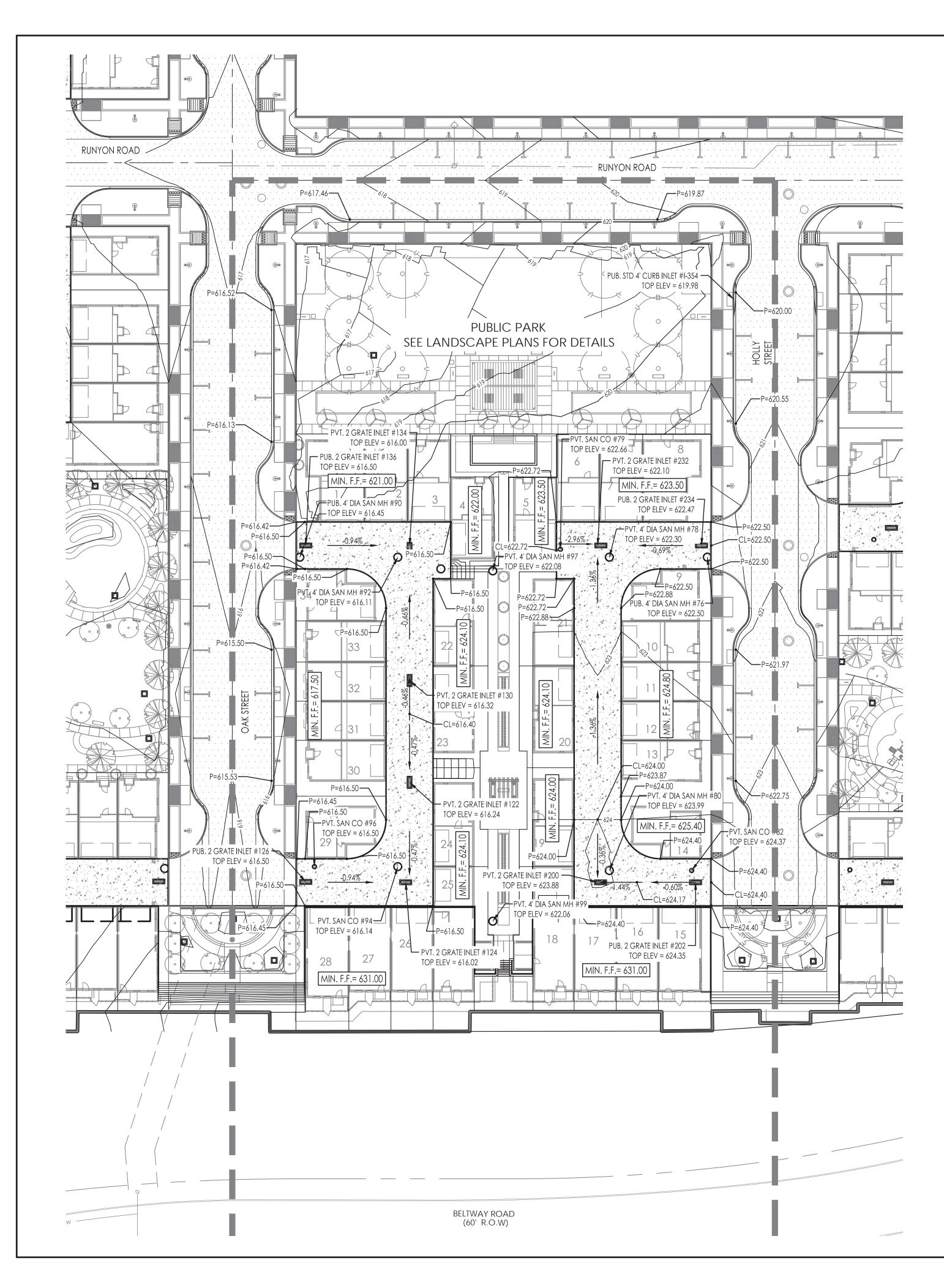
PAVING LEGEND

\bigcirc	PUBLIC SANITARY SEWER MANHOLE
0	PRIVATE SANITARY SEWER MANHOLE
ο	PRIVATE SANITARY SEWER CLEANOUT
	EXISTING SANITARY SEWER MANHOLE
\bigcirc	PUBLIC STORM SEWER MANHOLE
	PUBLIC STORM SEWER INLET
	PRIVATE STORM SEWER INLET
	EXISTING STORM SEWER AND MANHOLE
	EXISTING INLET
	PROPOSED TREE WELL
	PUBLIC R.O.W. FIRE LANE ACCESS
	CONCRETE PRIVATE DRIVE- 24.00' FIRE LANE ACCESS AND UTILITY EASEMENT
0000000	2'x6' TRUNCATED DOME PANEL

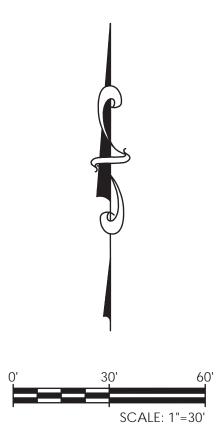
BLOCK	
LOT	PVN
LOT	Ģ
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BLOCK C				
	PVMT ELEV. @			
LOT	GARAGE			
1	616.50			
2	616.50			
3	616.50			
4	616.50			
5	622.70			
6	622.70			
7	622.70			
8	622.60			
9	622.90			
10	623.20			
11	623.40			
12	623.60			
13	623.80			
14	624.20			
15	624.40			
16	624.40			
17	624.40			
18	624.40			
19	624.20			
20	623.40			
21	623.20			
22	616.50			
23	616.50			
24	616.50			
25	616.50			
26	616.50			
27	616.50			
28	616.50			
29	616.50			
30	616.50			
31	616.50			
32	616.50			
33	616.50			
34	616.50			



PAVING LEGEND

\bigcirc	PUBLIC SANITARY SEWER MANHOLE
0	PRIVATE SANITARY SEWER MANHOLE
ο	PRIVATE SANITARY SEWER CLEANOUT
— — <u> </u>	EXISTING SANITARY SEWER MANHOLE
\bigcirc	PUBLIC STORM SEWER MANHOLE
	PUBLIC STORM SEWER INLET
•	PRIVATE STORM SEWER INLET
	existing storm sewer and manhole
	EXISTING INLET
	PROPOSED TREE WELL
	PUBLIC R.O.W. FIRE LANE ACCESS
	CONCRETE PRIVATE DRIVE- 24.00' FIRE LANE ACCESS AND UTILITY EASEMENT
0000000	2'x6' TRUNCATED DOME PANEL





			
NO.	REVISION	BY	DATE
	TOWN OF ADDISON		

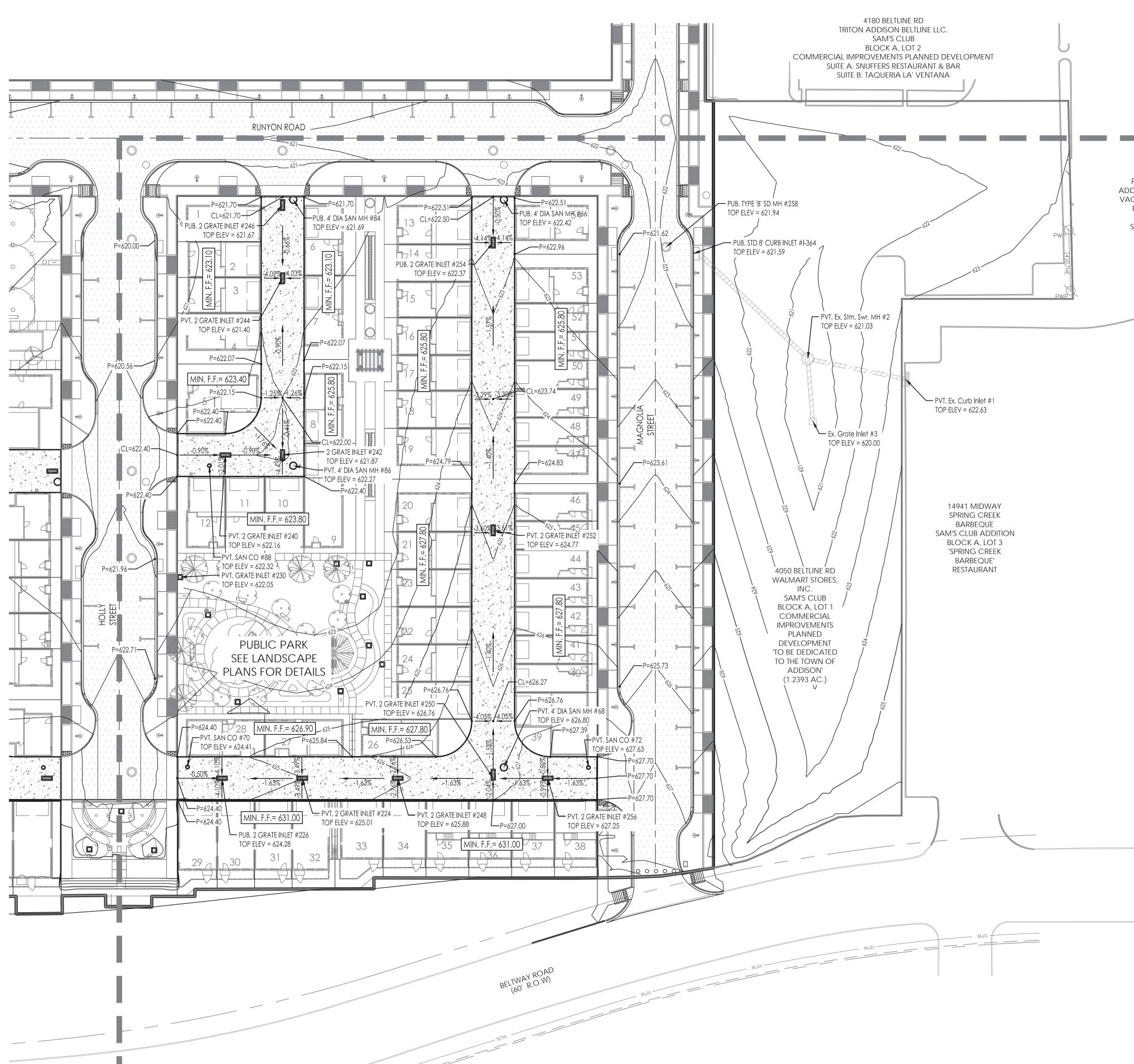
TOWN OF ADDISON DALLAS COUNTY, TEXAS

IMPROVEMENT PLANS ADDISON GROVE

PRIVATE GRADING LAYOUT BLOCK C

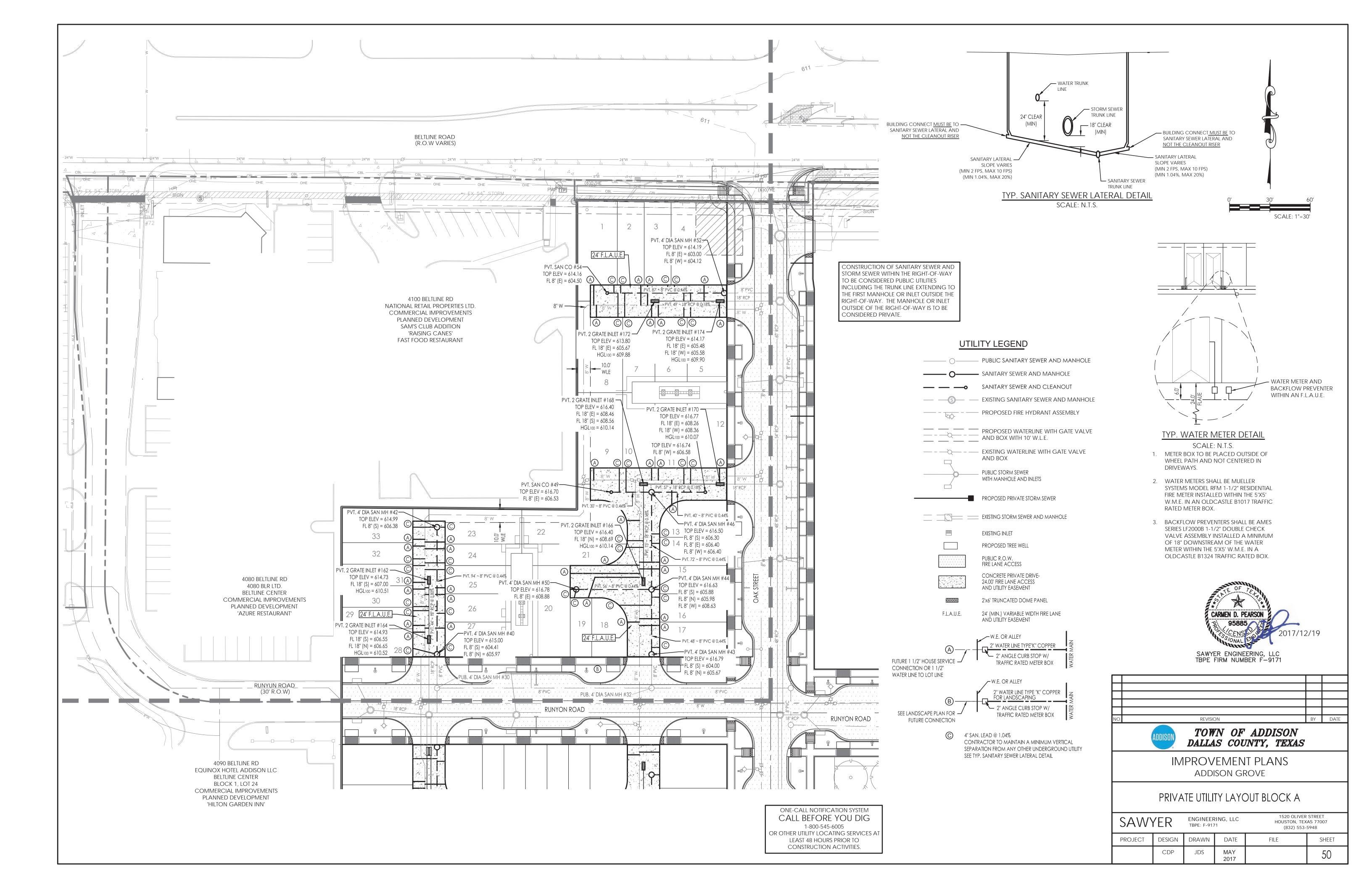
SAWYER		ENGINEERING, LLC TBPE: F-9171		1520 OLIVER STREET HOUSTON, TEXAS 77007 (832) 553-5948		
PROJECT	PROJECT DESIGN		DATE	FILE	SHEET	
	CDP	JDS	MAY 2017		48	

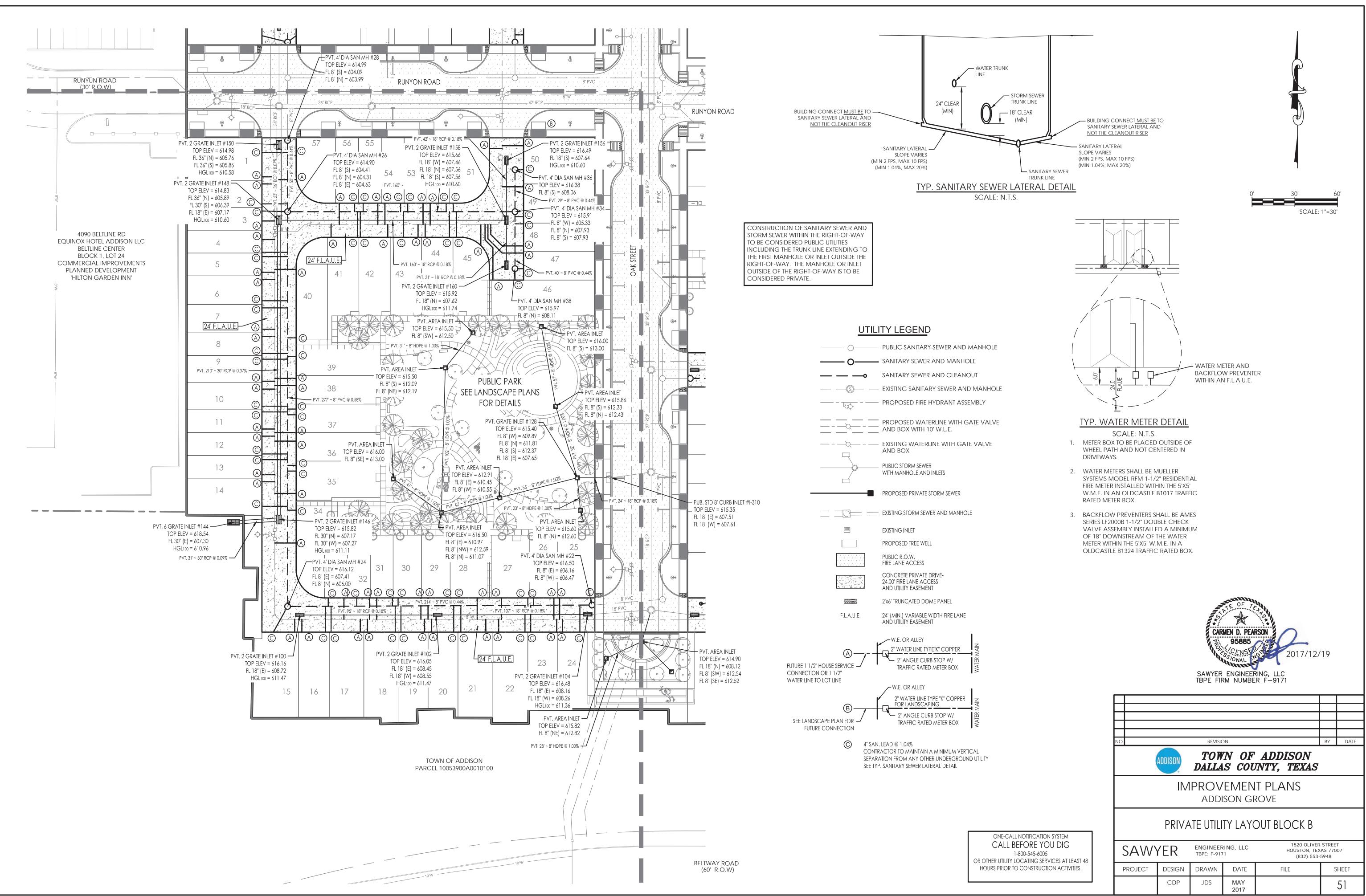
ONE-CALL NOTIFICATION SYSTEM CALL BEFORE YOU DIG 1-800-545-6005 OR OTHER UTILITY LOCATING SERVICES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES.

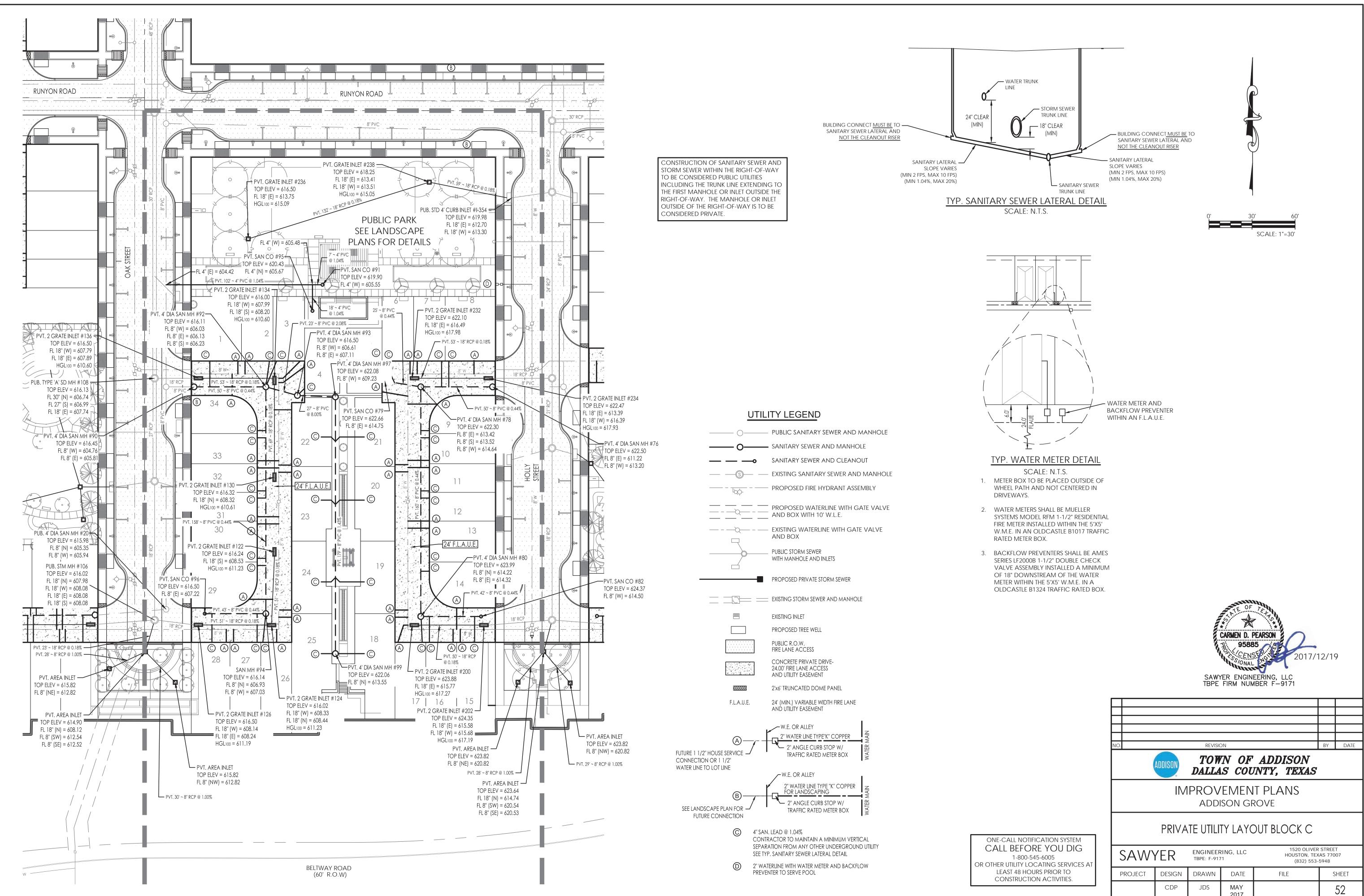


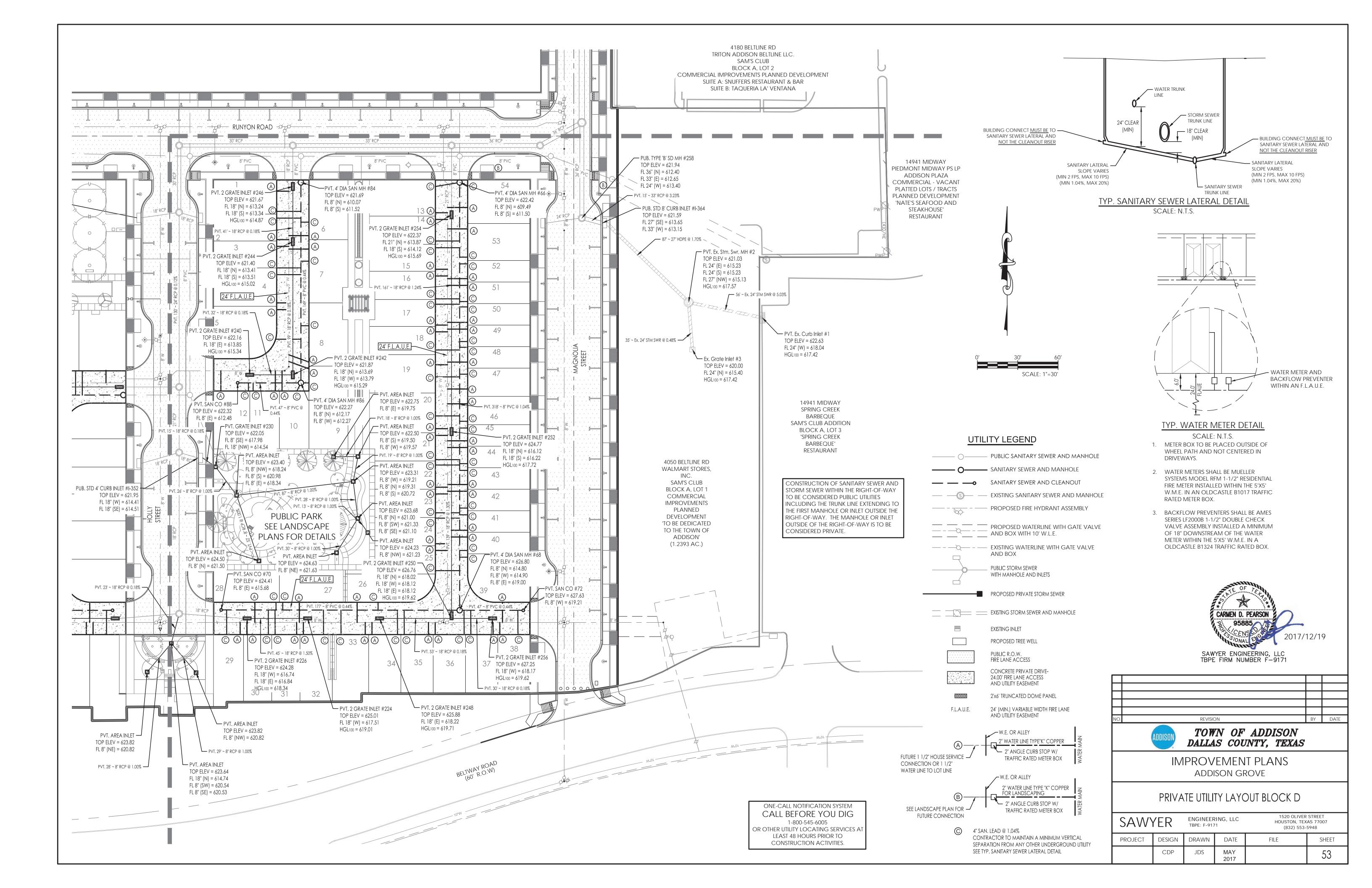
		(D
		PVMT ELEV. @
	LOT 1	GARAGE 621.80
I	1	621.80
I	3	622.00
I	4	622.00
	5	622.20
	6	621.80
		622.00 622.30
		622.30
	10	622.40
	11	622.40
ų (12	622.40
	13	622.90
		623.20
		623.50 623.80
		624.10
	18	624.40
0' 30' 60'	19	624.70
	20	625.20
SCALE: 1"=30'	21	625.50
		625.80
		626.10 626.40
		626.70
	26	626.50
	27	625.80
	28	624.70
NG LEGEND	29	624.70
PUBLIC SANITARY SEWER MANHOLE		625.00
		625.30 625.60
PRIVATE SANITARY SEWER MANHOLE		626.10
PRIVATE SANITARY SEWER CLEANOUT	34	626.40
EXISTING SANITARY SEWER MANHOLE	35	626.70
	36	627.00
PUBLIC STORM SEWER MANHOLE		627.30
PUBLIC STORM SEWER INLET		627.60 626.80
		626.50
PRIVATE STORM SEWER INLET	41	626.30
existing storm sewer and manhole	42	626.10
	43	625.80
EXISTING INLET	44	625.60
		625.40
PROPOSED TREE WELL		625.10 624.70
PUBLIC R.O.W.	47	624.70
fire lane access	49	624.30
CONCRETE PRIVATE DRIVE-	50	624.10
AND UTILITY EASEMENT	51	623.80
		623.60
2 XO IKUNGATED DOME PANEL	53	623.40 622.80
	UDUC STORM SEWER MANHOLE PRIVATE SANITARY SEWER MANHOLE PRIVATE SANITARY SEWER MANHOLE PRIVATE SANITARY SEWER MANHOLE PRIVATE SANITARY SEWER MANHOLE PUBLIC STORM SEWER INLET PUBLIC STORM SEWER INLET PUBLIC STORM SEWER INLET PRIVATE STORM SEWER INLET PRIVATE STORM SEWER INLET PRIVATE STORM SEWER INLET PROPOSED TREE WELL PROPOSED TREE WELL PUBLIC R.O.W. FRE LANE ACCESS	11 12 13 14 15 16 16 17 18 19 20 21 SCALE: 1"=30' 21 21 22 23 24 24 25 26 27 28 29 90 30 PUBLIC SANITARY SEWER MANHOLE 31 PRIVATE SANITARY SEWER MANHOLE 32 PRIVATE SANITARY SEWER MANHOLE 35 90 90 910 STORM SEWER INLET 36 910 PUVATE STORM SEWER INLET 38 910 PRIVATE STORM SEWER AND MANHOLE 37 910 PRIVATE STORM SEWER AND MANHOLE 42 42 43 24.01 TRELET 44 45 46 910 FRIVATE STORM SEWER AND MANHOLE 42 44 45 910 FRIVATE STORM SEWER AND MANHOLE 42 45 46 910 FRIVATE STORM SEWER AND MANHOLE 44 45 50 910 FRIVATE STORM SEWER AND MANHOLE

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NO.	ADDISON		N OF			BY	DATE
		PROV	S COU EMEN SON GF	T PLA			
	PRIVATE	GRAD	ING LA'	YOUT B	LOCK D)	
SAW	YER	ENGINEER TBPE: F-917			1520 OLIVER HOUSTON, TEX (832) 553-	AS 770	
PROJECT	DESIGN	DRAWN	DATE	FIL	E	S	HEET
	CDP	JDS	MAY 2017				49









	R CLEANOUT		AND INLETS	R MANHOLES	
NUMBER	Northing (ft)	Easting (ft)	NUMBER	Northing (ft)	Easting
10	7034102.16		Ex. 1	7033589.72	
12	7034037.03	2477012.16	Ex. 2	7033601.12	
14	7033743.41	2477011.16	Ex. 3	7033566.24	
16	7033716.04		Ex. 5	7034067.49	
18	7033532.52	2477011.16		/03/00/.13	2177.
20	7033377.50	2477011.16	100	7033366.77	2476
22	7033373.53		102	7033366.71	2476
24	7033372.50	2476748.15	104	7033367.09	
26	7033649.53	2476748.16	106	7033370.09	
28	7033699.53		107	7033466.92	
30	7033743.41	2476748.16	108	7033538.63	
32	7033743.41	2476907.66	110	7033723.65	
34	7033649.53		111	7033839.86	
36	7033679.03	2476907.67	111	7033895.14	
38	7033609.53		112	7033972.71	
40	7033768.53	2476748.16	114	7034031.14	
42	7033863.03		110	7034079.65	
43	7033768.53	2476907.66	120	7034105.33	
44	7033816.78		120	7033417.60	
46	7033889.03	2476907.66	122	7033366.56	
48	7033889.03		124	7033366.80	
49	7033889.03		120	7033462.96	
50	7033816.78		130	7033469.60	
52	7034037.03		130	7033538.58	
54	7034037.03		134	7033538.61	2477
56	7033710.04		130	7033597.70	
58	7033710.04		138	7033723.64	
60	7033710.04		142	7033431.83	
62	7033710.04		144	7033433.81	
64	7033693.00	2477602.04	140	7033643.81	
66	7033690.54		140	7033696.81	
68	7033372.58		150	7033723.82	
70	7033372.83		152	7033723.82	
72	7033372.51	2477536.02	155	7033723.78	
74	7033532.54		154	7033685.71	
76	7033532.54		158	7033643.71	
78	7033532.54		160	7033612.21	2476
79	7033536.54		160	7033823.81	
80	7033372.50	2477188.66	162	7033779.82	
82	7033372.50		166	7033822.71	2476
84	7033690.54		168	7033895.21	l
86	7033541.55	2477370.68	170	7033895.17	
88	7033541.55	2477323.66	170	7033033.17	
90	7033532.52		172	7034031.20	
92	7033532.52		L1/4	1 /034031.1/	2470
93	7033526.54				
94	7033374.50	2477080.66			
96	7033374.50	2477038.11			
97	7033525.54				
99	7033346.62	2477129.16			

	STORM SEV		
	AND INLETS		
)	NUMBER	Northing (ft)	Easting (ft)
3.22	200	7033366.50	2477182.08
3.49	202	7033366.47	2477232.09
28	204	7033369.92	2477279.58
1.11	205	7033489.75	2477279.66
	206	7033538.48	2477279.69
5.08	207	7033668.22	2477279.78
l.57	208	7033717.98	2477279.81
3.08	210	7033717.92	2477364.33
2.58	212	7033717.84	2477482.33
2.65	214	7033717.80	2477548.17
2.69	216	7033734.76	2477579.18
2.81	218	7033984.93	2477579.34
2.89	219	7034045.83	2477579.38
2.92	220	7034079.32	2477579.40
2.92	222	7034079.40	2477392.54
3.01	224	7033366.37	2477375.08
3.04	226	7033366.42	2477330.09
5.06	228	7033447.41	2477419.37
5.11	230	7033479.06	2477306.78
1.08	232	7033538.54	2477182.19
3.08	234	7033538.50	2477235.19
).79	236	7033635.74	2477067.98
5.15	238	7033675.18	2477194.18
5.19	240	7033547.45	2477332.20
3.19	242	7033547.43	2477364.22
1.23	244	7033646.42	2477364.28
).81	246	7033687.42	2477364.31
).27	248	7033366.34	2477428.60
l.61	250	7033366.30	2477482.10
L.76	252	7033505.19	2477482.19
L.79	254	7033666.34	2477482.29
L.81	256	7033366.29	2477512.60
5.81	258	7033663.75	2477579.13
3.34	298	7034016.35	2477017.00
L.29	300	7033970.68	2476974.97
L.26	302	7033970.65	2477016.97
L.24	304	7033836.88	2476974.88
L.88	306	7033836.85	2477016.88
L.85	308	7033595.77	2477016.73
L.38	310	7033462.94	2476974.64
L.43	312	7033462.91	2477016.64
3.42	314	7033738.13	2477032.82
).01	316	7033712.13	2477032.80
3.51	318	7033755.27	2476802.83
	320	7033713.27	2476802.80
	322	7033747.35	2476688.34
	324	7033721.35	2476688.33 2477251.66
	350		
	352	7033485.74	2477293.66
	354	7033664.23	2477251.77
	356	7033664.21	2477293.77
	358	7034041.79	2477560.38
	360	7034041.78	2477586.38
	362	7033660.01	2477552.13
	364	7033659.98	2477594.13

SANITARY SEWER LEADS

Block A

ting (ft)	
sting (ft) 2477182 08	
2477182.08 2477232 09	
2477232.09 2477279 58	
2477279.58 2477279 66	
2477279.66 2477279.60	
2477279.69 2477279.79	
2477279.78	
2477279.81	
2477364.33	
2477482.33	
2477548.17	
2477579.18	
2477579.34	
2477579.38	
2477579.40	
2477392.54	
2477375.08	
2477330.09	
2477419.37	
2477306.78	
2477182.19	
2477235.19	
2477067.98	
2477194.18	
2477332.20	
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2477364.28	
2477364.31	
2477428.60	
2477482.10 2477482.10	
2477482.10 2477482.19	
2477482.19 2477482.29	
2477512.60	
2477579.13	
2477017.00	
2476974.97	
2477016.97	
2476974.88	
2477016.88	
2477016.73	
2476974.64	
2477016.64	
2477032.82	
2477032.80	
2476802.83	
2476802.80	
2476688.34	
2476688.33	
2477251.66	
2477293.66	
2477251.77	
2477293.77 2477293.77	
2477560.38	
2477586.38	
2477552.13	

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607.60 607.63

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607.14

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606.96

606.94

BIOCK A	۲ 	1					
	base	Elevation	Length		Elevation	Pavement	
Lot #	elevation	at trunk line	-	Slope	at lot line	Elevation	Cover
1	606.35	606.52	6	10.00%	607.12	614.20	7.08
2	606.33	606.50	6	10.00%	607.12	614.20	7.10
3	606.17	606.34	6	10.00%	606.94	614.20	7.26
4	606.15	606.32	6	10.00%	606.92	614.20	7.28
5	606.10	606.27	18	10.00%	608.07	614.20	6.13
6	606.10	606.27	18	10.00%	608.07	614.20	6.13
7				10.00%			
	606.31	606.48	18		608.28	614.20	5.92
8	606.33	606.50	18	10.00%	608.30	614.20	5.90
9	607.36	607.53	18	10.00%	609.33		7.47
10	607.33	607.50	18	10.00%	609.30	616.80	7.50
11	607.16	607.33	18	10.00%	609.13	616.80	7.67
12	607.18	607.35	18	10.00%	609.15	616.80	7.65
13	606.82	606.99	6	10.00%	607.59	616.80	9.21
14	606.79	606.96	6	10.00%	607.56	616.80	9.24
15	608.63	608.80	6	10.00%	609.40	616.80	7.40
16	606.50	606.67	6	10.00%	607.27	616.80	9.53
17	606.36	606.53	6	10.00%	607.13	616.80	9.67
18	606.36	606.53	18	10.00%	608.33	616.80	8.47
19	608.88	609.05	6	10.00%	609.65	616.80	7.15
20	608.88	609.05	4	10.00%	609.45	616.80	7.35
21	606.77	606.94	19	10.00%	608.84	616.80	7.96
22	606.79	606.96	18	10.00%	608.76	616.80	8.04
23	606.36	606.53	6	10.00%	607.13		7.87
24	606.33	606.50	6	10.00%	607.10	615.00	7.90
25	606.19	606.36	6	10.00%	606.96		8.04
26	606.17	606.34	6	10.00%	606.94	615.00	8.06
27	605.99	606.16	6	10.00%	606.76	615.00	8.24
28	606.05	606.22	18	10.00%	608.02	615.00	6.98
20	606.07	606.24	18	10.00%	608.04	615.00	6.96
30	606.18	606.35	18	10.00%	608.15	615.00	6.85
31	606.22	606.39	18	10.00%	608.19	615.00	6.81
32	606.33	606.50	18	10.00%	608.30	615.00	6.70
33	606.36	606.53	18	10.00%	608.33		6.67
SANIT. Block (ARY SEWE	R LEADS					
	base	Elevation	Length		Elevation	Pavement	
Lot #	elevation	at trunk line	-	Slope	at lot line	Elevation	Cover
1	606.36	606.53	18	10.00%	608.33	616.50	8.17
2	606.63	606.80	16	10.00%	608.40	616.50	8.10
3	606.63	606.80	18	10.00%	608.60	616.50	7.90
4	606.66	606.83	27	10.00%	609.53	616.50	6.97
5	614.75	614.92	14	10.00%	616.32	622.72	6.40
6	614.75	614.92	14	10.00%	616.52	622.72	6.20
7	614.47	614.64	18	10.00%	616.44	622.72	6.20
/ 8	614.47	614.64	18	10.00%	616.44	622.70	
<u> </u>							6.14
	614.77	614.94	6	10.00%	615.54	622.95	7.41
10	614.80	614.97	6	10.00%	615.57	622.95	7.38
11	614.96	615.13	6	10.00%	615.73	623.39	7.66
12	614.98	615.15	6	10.00%	615.75	623.39	7.64
13	615.17	615.34		10.00%	615.94	623.87	7.93
14	615.19	615.36		10.00%	615.96	623.87	7.91
15	615.62	615.79	18	10.00%	617.59	624.40	6.81
16	615.47	615.64	18	10.00%	617.44	624.40	6.96
17	615.44	615.61	18	10.00%	617.41	624.40	6.99
10	613.33	613.50	21	10.00%	615.60	624.40	8.80
18	015.55	010.00					10.50
18	611.20	611.37	21	10.00%	613.47	624.00	10.53
			21 21	10.00% 10.00%	613.47 613.51	624.00 622.09	10.53 8.58
19	611.20	611.37					
19 20	611.20 611.24	611.37 611.41	21	10.00%	613.51	622.09	8.58
19 20 21	611.20 611.24 613.12	611.37 611.41 613.29	21 21	10.00% 10.00%	613.51 615.39	622.09 622.06	8.58 6.67

9 10.00%

9 10.00%

18 10.00%

20 10.00%

20 10.00%

6 10.00%

6 10.00%

6 10.00%

6 10.00%

6 10.00%

6 10.00%

612.27

614.40

609.40

609.63

609.76

607.95

607.93

607.74

607.72

607.56

607.54

622.09 9.82

622.06 7.66

616.50 7.10

616.50 6.87

616.50 6.74

616.50 8.55

616.50 8.57

616.50 8.76

616.50 8.78

616.50 8.94

616.50 8.96

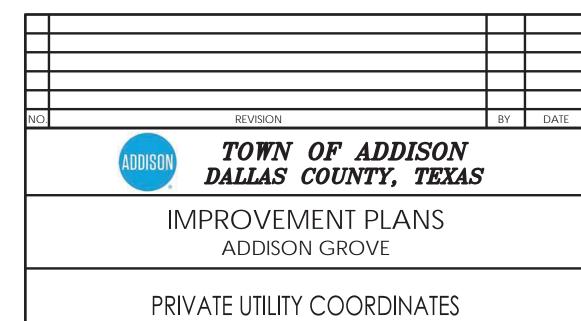
	Block E	3							Block [)						
		base	Elevation	Length		Elevation	Pavement			base	Elevation	Length		Elevation	Pavement	
r	Lot #	elevation	at trunk line	of Lead	Slope	at lot line	Elevation	Cover	Lot #	elevation	at trunk line	of Lead	Slope	at lot line	Elevation	Cover
	1	604.43	604.60	18	10.00%	606.40	614.20	7.80	1	612.61	612.78	18	10.00%	614.58	621.80	7.22
	2	604.59	604.76	18	10.00%	606.56	614.20	7.64	2	612.63	612.80	18	10.00%	614.60	621.80	7.20
	3	606.13	606.30	18	10.00%	608.10	614.20	6.10	3	612.80	612.97	18	10.00%	614.77	621.97	7.20
	4	605.21	605.38	18	10.00%	607.18	614.20	7.02	4	612.82	612.99	18	10.00%	614.79	621.97	7.18
	5	605.24	605.41	18	10.00%	607.21	614.20	6.99	5	613.03	613.20	18	10.00%	615.00	622.15	7.15
	6	605.37	605.54	18	10.00%	607.34	614.20	6.86	6	612.65	612.82	. 6	10.00%	613.42	621.80	8.38
	7	605.39	605.56		10.00%	607.36	614.20	6.84	7	612.77	612.94	. 6	10.00%	613.54	621.97	8.43
	8	605.53	605.70		10.00%	607.50	614.20		8	612.99	613.16	6	10.00%	613.76	622.15	8.39
	9	605.55	605.72	18	10.00%	607.52	616.80	9.28	9	613.27	613.44	. 6	10.00%	614.04	622.40	8.36
	10	605.70	605.87		10.00%	607.67	616.80		10	613.27	613.44	. 6	10.00%	614.04	622.40	8.36
	11	605.72	605.89		10.00%	607.69	616.80		11	613.43	613.60	6	10.00%	614.20	622.40	8.20
	12	605.81	605.98	18	10.00%	607.78	616.80	9.02	12	613.44	613.61	6	10.00%	614.21	622.40	8.19
	13	605.84	606.01	18	10.00%	607.81	616.80	8.99	13	611.56	611.73	18	10.00%	613.53	622.51	8.98
	14	606.00	606.17	18	10.00%	607.97	616.80		14	611.92	612.09	18	10.00%	613.89	623.19	9.30
	15	607.91	608.08		10.00%	609.98	616.50		15	611.98	612.15	18	10.00%	613.95	623.19	9.24
	16	607.84	608.01	18	10.00%	609.81	616.50		16	612.36	612.53	18	10.00%	614.33	623.80	9.47
	17	607.72	607.89	18	10.00%	609.69	616.50		17	612.41	612.58	18	10.00%	614.38	623.80	9.42
	18	607.62	607.79		10.00%	609.59	616.50		18	612.74	612.91	18	10.00%	614.71	624.28	9.57
	19	607.48	607.65		10.00%	609.45	616.50		19	612.95	613.12	. 18	10.00%	614.92	624.57	9.65
	20	607.46	607.63		10.00%	609.43	616.50		20	613.24	613.41	18	10.00%	615.21	624.96	9.75
	21	607.28	607.45	19	10.00%	609.35			21	613.59	613.76	18	10.00%	615.56	625.49	9.93
	22	607.26	607.43		10.00%	609.33	616.50		22	613.64	613.81	18	10.00%	615.61	625.49	9.88
	23	607.08	607.25		10.00%	609.15	616.50		23	614.03	614.20	18	10.00%	616.00	626.10	10.10
	24	607.06	607.23		10.00%	609.13			24	614.08	614.25	18	10.00%	616.05	626.10	10.05
	25	607.06	607.23		10.00%	607.73			25	614.49	614.66	18	10.00%	616.46	626.74	10.28
	26	607.08	607.25		10.00%	607.75	616.50		26	615.17	615.34	. 6	10.00%	615.94	626.20	10.26
	27	607.27	607.44		10.00%	607.94	616.50		27	615.48	615.65	6	10.00%	616.25	625.12	8.87
	28	607.29	607.46		10.00%	607.96	616.50		28	615.50	615.67	6	10.00%	616.27	625.12	8.85
	29	607.47	607.64		10.00%	608.24			29	615.68	615.85	19	10.00%	617.75	624.81	7.06
	30	607.49	607.66		10.00%	608.26	616.50		30	615.53	615.70	19	10.00%	617.60	625.04	7.44
	31	607.62	607.79		10.00%	608.39	616.50		31	615.50	615.67	19	10.00%	617.57	625.04	7.47
	32	607.71	607.88		10.00%	608.48	616.50		32	615.33	615.50	19	10.00%	617.40	625.70	8.30
	33	607.73	607.90		10.00%	608.50			33	615.31	615.48	19	10.00%	617.38	625.70	8.32
	34	606.01	606.18		10.00%	606.78	616.00		34	615.10	615.27	19	10.00%	617.17	626.45	9.28
	35	605.99	606.16		10.00%	606.76	615.91	9.15	35	615.08	615.25	19	10.00%	617.15	626.45	9.30
	36	605.81	605.98		10.00%	606.58	615.83		36	619.00	619.17	19	10.00%	621.07	627.13	6.06
-	37	605.72	605.89		10.00%	606.49	615.75		37	619.04	619.21	19	10.00%	621.11	627.13	6.02
	38	605.70	605.87		10.00%	606.47	615.67		38	619.21	619.38	19	10.00%	621.28	627.60	6.32
-	39	605.53	605.70		10.00%	606.30	615.57		39	614.39	614.56	6	10.00%	615.16	626.52	11.36
	40	605.50	605.67	6	10.00%	606.27	615.39		40	614.33	614.50	6	10.00%	615.10	626.52	11.42
	41	606.34	606.51	18		608.31	615.46		41	614.03	614.20	6	10.00%	614.80	626.02	11.22
	42	606.36	606.53			608.33	615.54		42	613.97	614.14	. 6	10.00%	614.74	626.02	11.28
	43	606.48	606.65			608.45	615.61	7.16	43	613.68	613.85	6	10.00%	614.45	625.55	11.10
	44	606.63	606.80		10.00%	608.60	615.70		44	613.64	613.81	6	10.00%	614.41	625.55	11.14
	45	606.65	606.82			608.62	616.00		45	613.35	613.52	. 6	10.00%	614.12	625.09	10.97
	46	608.11	608.28		10.00%	608.88	616.00		46	613.30	613.47	6	10.00%	614.07	625.09	11.02
	47	608.11	608.28		10.00%	608.88	616.00		47	612.95	613.12	. 6	10.00%	613.72	624.57	10.85
	48	607.97	608.14		10.00%	608.74	616.00		48	612.74	612.91	6	10.00%	613.51	624.25	10.74
	49	607.97	608.14		10.00%	608.74	616.26		49	612.68	612.85	6	10.00%	613.45	624.25	10.80
	50	608.06	608.23		10.00%	608.83	616.79		50	612.41	612.58	6	10.00%	613.18	623.78	10.60
	51	606.64	606.81		10.00%	607.41			51	612.36	612.53	6 6	10.00%	613.13	623.78	10.65
1	52	606.62	606.79		10.00%	607.39	615.62		52	612.07	612.24	. 6	10.00%	612.84	623.32	10.48
1	53	606.50	606.67		10.00%	607.27	615.57		53	612.02	612.19	6	10.00%	612.79	623.32	10.53
	54	606.48	606.65	<u>ک</u>	10.00%	607.25	615.52		54	611.56	611.73	6 6	10.00%	612.33	622.65	10.32
	55	606.36	606.53		10.00%	607.13	615.47				1	1			•	
1	56	606.34	606.51	ں ۲	10.00%	607.13	615.42									
1	57	604.43	604.60	ں ۲	10.00%	605.20						-				
	57	004.40	004.00	0	10.00/0	000.20	013.00	/.00	l						ATION SYSTEM	



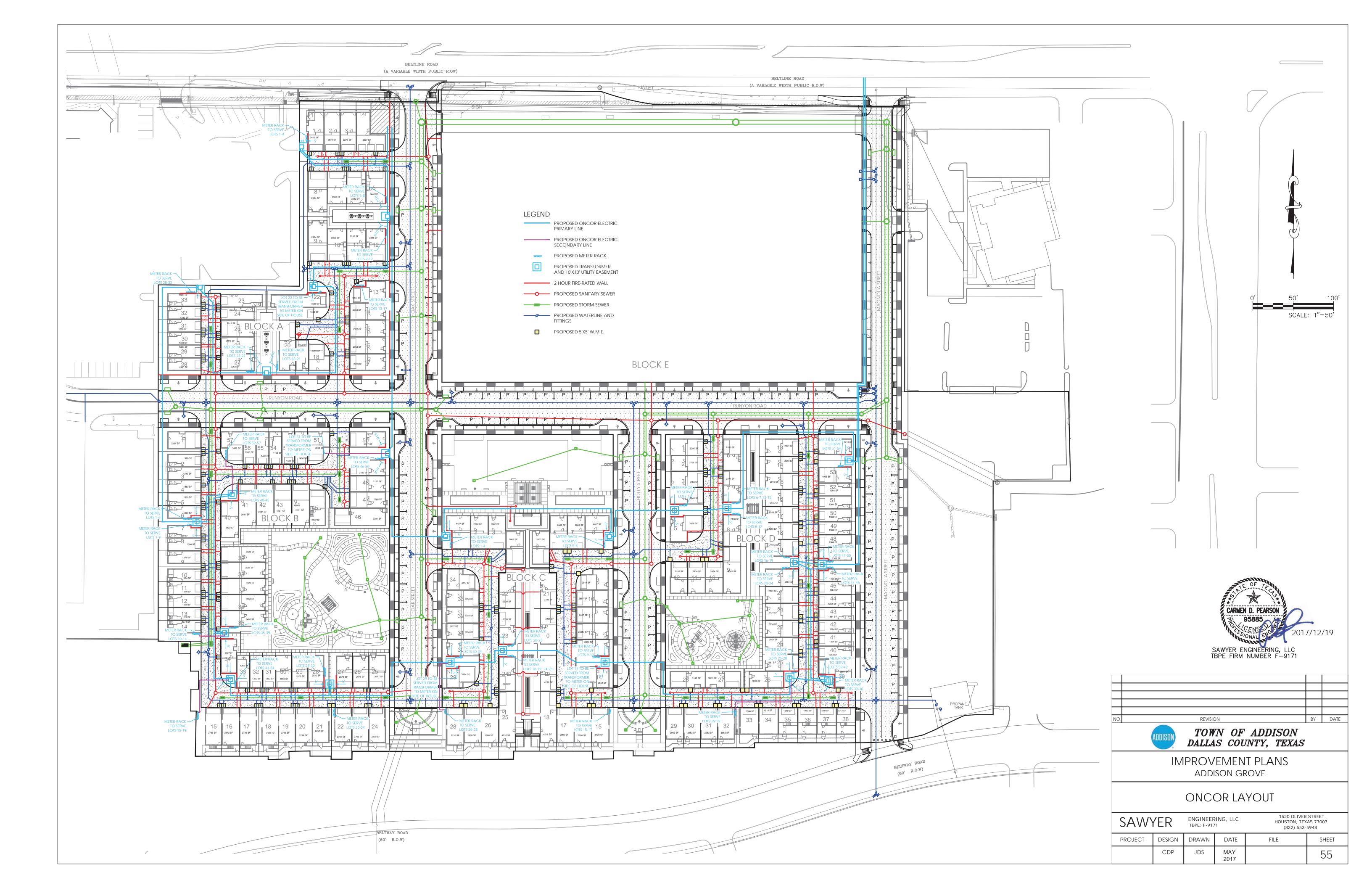
SANITARY SEWER LEADS

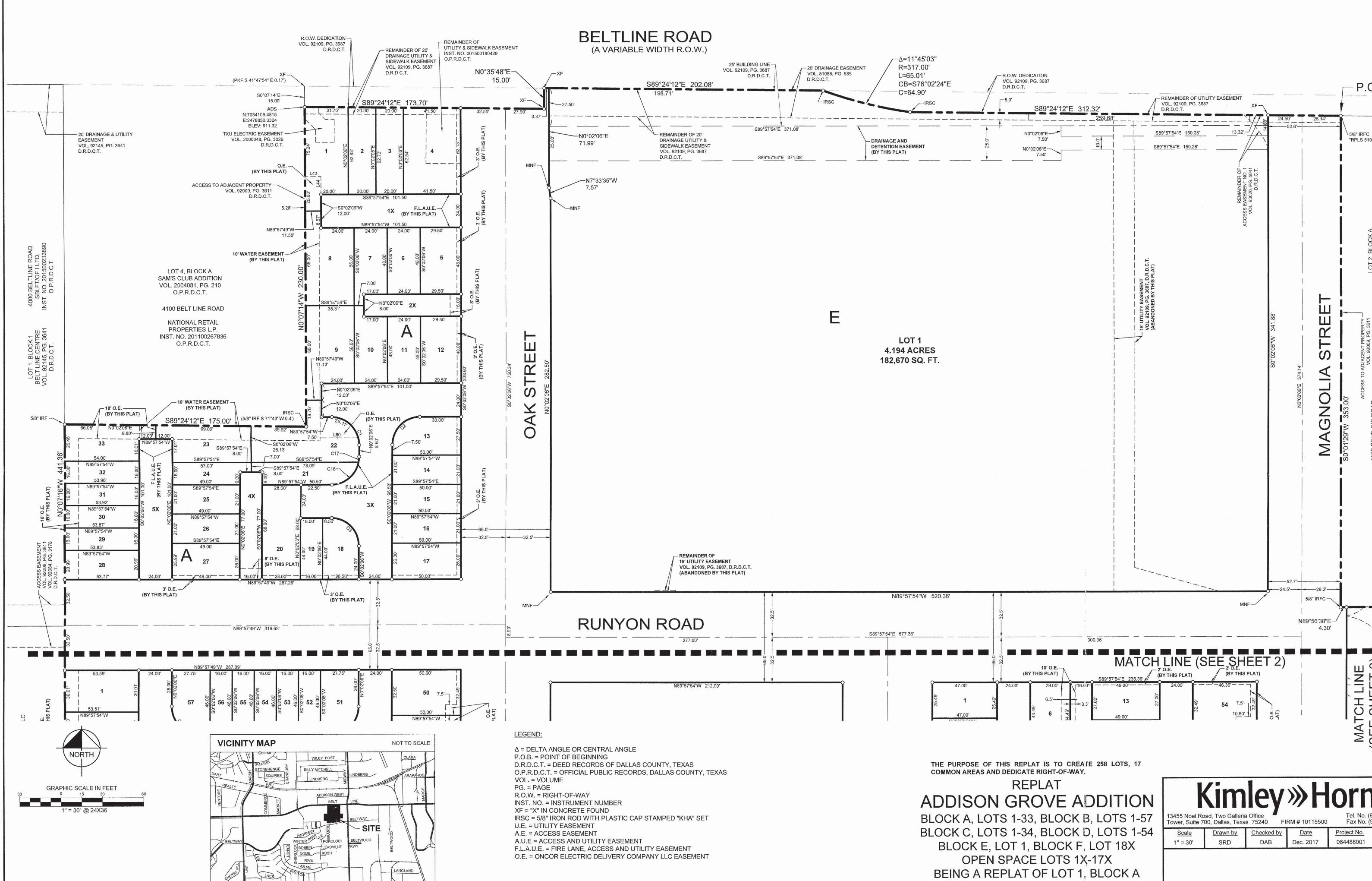
SANITARY SEWER LEADS

CALL BEFORE YOU DIG 1-800-545-6005 OR OTHER UTILITY LOCATING SERVICES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES.

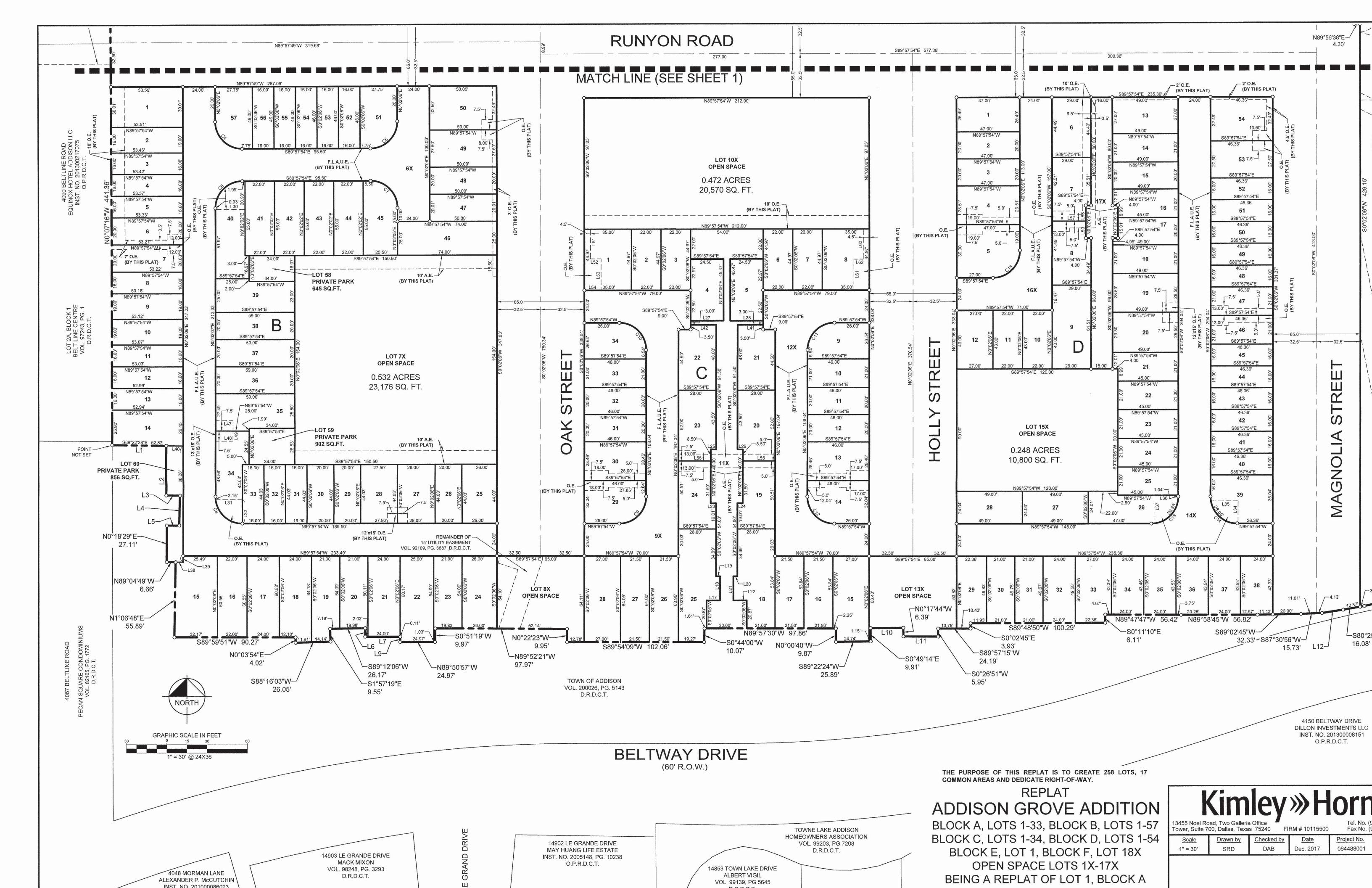


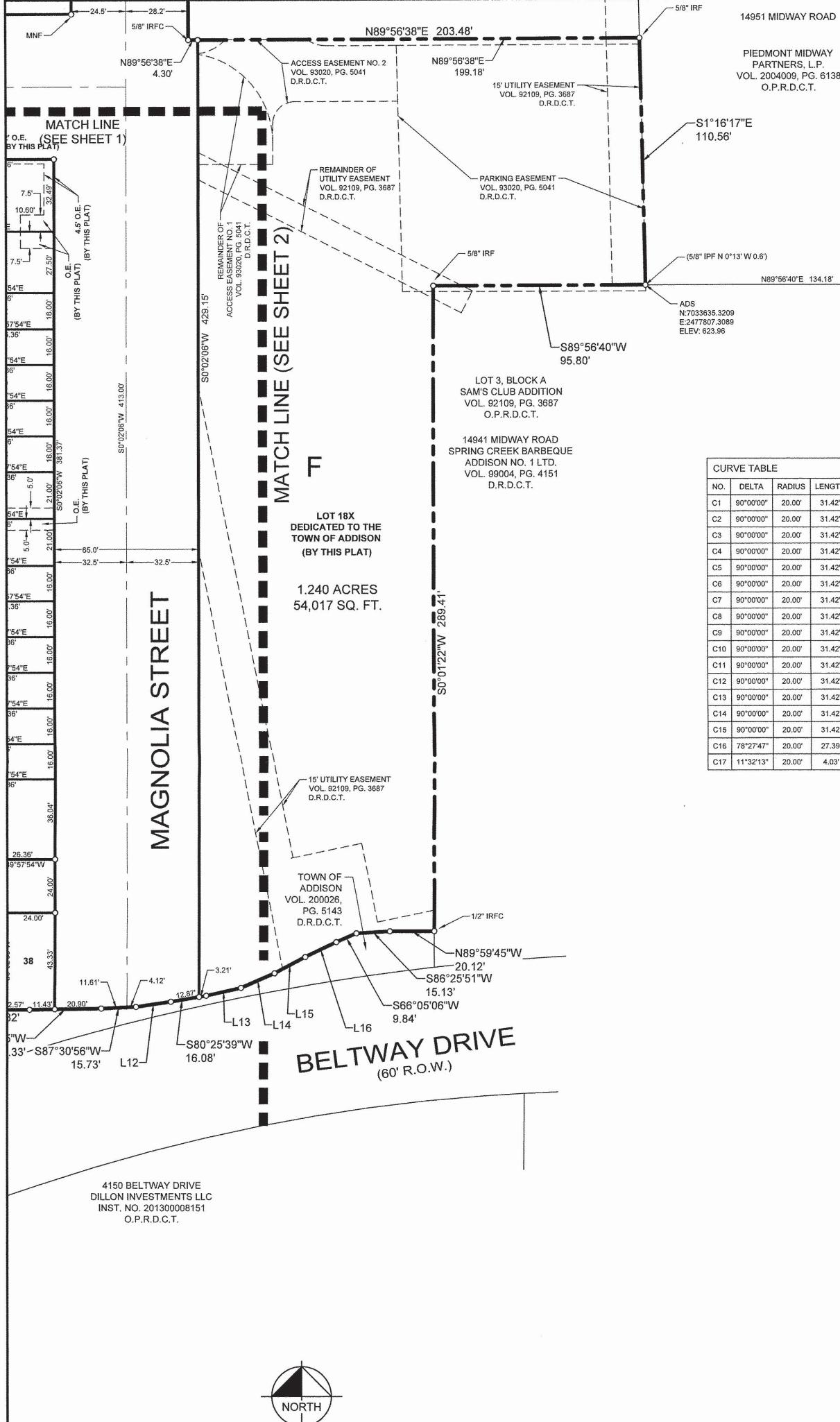
SAW	YER	ENGINEER TBPE: F-917		1520 OLIVER HOUSTON, TEX (832) 553-	AS 77007
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
	CDP	JDS	MAY 2017		54





ŀ	Kim	ley	»Н	lorn
	oad, Two Galleri 00, Dallas, Texa		RM # 10115500	Tel. No. (9 Fax No. (9
Scale	Drawn by	Checked by	Date	Project No.
1'' = 30'	SRD	DAB	Dec. 2017	064488001





IIUVP	IT RU	AD	
ONT N INER: 04009, P.R.D.	S, L.P PG. (

ROAD TH R.O.W.)

L	E		*******			E TABLE		LIN	E TABLE	
	RADIUS	LENGTH	CHORD BEARING	CHORD	NO.	BEARING	LENGTH	NO.	BEARING	LENGTH
	20.00'	31.42'	N44°57'54"W	28.28'	L1	N89°22'28''W	40.30'	L57	S89°57'54"E	25.00'
	20.00'	31.42'	S45°02'06''W	28.28'	L2	N00°13'28"E	36.84'	L58	N00°02'06"E	11.49'
	20.00'	31.42'	N44°57'54''W	28.28'	L3	N89°41'31"W	10.26'	L59	N00°02'06"E	12.51'
	20.00'	31.42'	S44°57'54"E	28.28'	L4	N01°13'10"E	22.36'	L60	N89°57'54"W	27.86'
	20.00'	31.42'	\$45°02'06''W	28.28'	L5	S89°41'31"E	9.26'	L61	S00°02'06"W	22.80'
	20.00'	31.42'	N45°02'06"E	28.28'	L6	N00°02'44"W	6.29'	L62	N89°57'54"W	7.00'
~	20.00'	31.42'	N44°57'54"W	28.28'	L7	N89°49'51"W	26.13'	L63	N00°02'06"E	22.17'
	20.00'	31.42'	S44°57'54"E	28.28'	L9	N01°14'11"E	3.78'			
	20.00'	31.42'	N45°02'06"E	28.28'	L10	S89°29'58"W	24.40'			
	20.00'	31.42'	N44°57'54"W	28.28'	L11	N89°41'07''W	25.76'			
	20.00'	31.42'	S45°02'06"W	28.28'	L12	S81°22'40''W	15.88'			
l	20.00'	31,42'	S44°57'54"E	28,28'	L13	\$77°20'26''W	16.07'			
	20.00'	31.42'	N45°02'06"E	28.28'	L14	S66°53'41"W	16.43'			
F	20.00'	31.42'	S44°57'54"E	28,28'	L15	S62°33'01''W	15.64'			
•	20.00'	31.42'	N45°02'06"E	28.28'	L16	S64°24'55''W	15.43'			
1	20.00'	27.39'	N50°48'13"E	25.30'	L17	N89°57'54"W	10.00'			
	20.00'	4.03'	N05°48'13"E	4.02'	L18	N00°02'07"E	18.00'			
					L19	S89°57'54"E	3.00'			
					L20	N89°57'54"W	3.00'			
					L21	N00°00'02"W	18.00'			
					L22	S89°57'54"E	9.99'			
					L23	N89°57'54"W	4.00'			
					L24	S89°57'54"E	4.00'			
					L25	S89°57'54"E	4.00'			
					L26	N89°57'54"W	4,00'			
				2	L27	S89°57'54"E	24.50'			
					L28	N89°57'54"W	24.50'			
					L30	N89°57'54"W	21.99'			
					L31	N89°57'54"W	19.88'			
					L32	S00°02'06''W	18.08'			
					L34	S00°02'06''W	16.68'			
					L35	N89°57'54"W	20.28'			
					L36	S89°57'54"E	17.94'			
					L37	S00°02'06''W	20.94'			
					L38	S89°57'54"E	5.63'			
					L39	N00°02'02"E	4.70'			
					L40	S89°22'28"E	12.57'			
					L41	N89°57'54''W	19.00'			
					L42	S89°57'54"E	19.00'			
					L43	\$89°57'54"E	11,56'			
					L44	N00°02'06"E	13.00'			
					L47	N89°57'54"W	13.00'			
					L48	\$89°57'54"E	13.00'			
					1	1	I state and state and state	1		

L49 N00°02'07"E

L52 S89°57'55"E

L51 S00°02'08''W 21.85'

L53 S00°02'04"W 23.12' L54 N89°57'55''W 12.46'

L55 S89°57'54"E 24.00'

L56 S89°57'54"E 24.00'

15.00'

7.96'

BLOCK	A	
LOT NO.	ACRES	SQ. FT.
1	0.049	2,132
2	0.029	1,257
3	0.029	1,253
4	0.059	2,587
5	0.033	1,416
6	0.026	1,152
7	0.028	1,208
8	0.049	2,119
9	0.048	2,107
10	0.028	1,208
11	0.026	1,152
12	0.033	1,416
13	0.030	1,289
14	0.024	1,050
15	0.024	1,050
16	0.024	1,050
17	0.030	1,300
18	0.025	1,080
19	0.016	704
20	0.044	1,904
21	0.025	1,099
22	0.054	2,336
23	0.037	1,622
24	0.019	840
25	0.024	1,029
26	0.024	1,029
27	0.029	1,274
28	0.026	1,129
29	0.020	862
30	0.020	862
31	0.020	863
32	0.020	864
33	0.035	1,534

LOT NO.	ACRES	SQ. FT.	LOT
1	0.037	1,607	41
2	0.023	1,016	42
3	0.020	855	43
4	0.020	854	44
5	0.020	854	45
6	0.024	1,066	46
7	0.024	1,065	47
8	0.020	851	48
9	0.023	1,010	49
10	0.023	1,009	50
11	0.019	849	51
12	0.019	848	52
13	0.019	847	53
14	0.032	1,385	54
15	0.043	1,888	55
16	0.031	1,332	56
17	0.033	1,453	57
18	0.034	1,498	L
19	0.029	1,274	
20	0.026	1,145	
21	0.033	1,443	
22	0.037	1,599	
23	0.026	1,146	
24	0.032	1,406	
25	0.026	1,145	
26	0.020	881	
27	0.028	1,233	
28	0.028	1,211	
29	0.020	881	
30	0.020	881	
31	0.016	704	
32	0.016	704	
33	0.016	704	
34	0.032	1,408	
35	0.036	1,554	
36	0.027	1,180	
37	0.027	1,180	
38	0.027	1,180	
39	0.032	1,407	
40	0.036	1.548	

40 0.036 1,548

LOT NO.	ACRES	SQ. FT.
41	0.028	1,210
42	0.028	1,210
43	0.028	1,210
44	0.028	1,210
45	0.030	1,317
46	0.042	1,850
47	0.023	1,000
48	0.023	1,000
49	0.032	1,375
50	0,037	1,625
51	0.027	1,191
52	0.017	736
53	0.017	736
54	0.017	736
55	0.017	736
56	0.017	736
57	0.027	1,191

DI AQU	<u>^</u>	
BLOCK	C	
LOT NO.	ACRES	SQ. FT
1	0.036	1,574
2	0.023	989
3	0.023	989
4	0.026	1,114
5	0.026	1,114
6	0.023	989
7	0.023	989
8	0.036	1,574
9	0.026	1,135
10	0.022	966
11	0.021	920
12	0.021	920
13	0.030	1,309
14	0.032	1,388
15	0.039	1,694
16	0.027	1,158
17	0.027	1,158
18	0.045	1,976
19	0.030	1,288
20	0.033	1,422
21	0.030	1,313
22	0.030	1,313
23	0.033	1,422
24	0.030	1,288
25	0.050	2,171
26	0.032	1,375
27	0.032	1,376
28	0.040	1,730
29	0.032	1,388
30	0.030	1,309
31	0.021	920
32	0.021	920
33	0.022	966
34	0,026	1,135

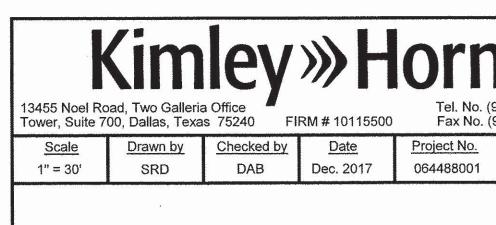
RES SQ. F 028 1,198 022 940 022 940 022 940 021 940 022 940 031 1,340 040 1,747 030 1,290 030 1,317 030 1,317 030 1,317 030 1,317 030 1,317 030 1,317 031 1,317 032 946 022 946 022 946 021 1,025 022 980 023 993 021 920 022 1,025 033 1,445 023 993 022 945 022 945
022 940 022 940 021 940 031 1,340 040 1,747 030 1,290 030 1,317 030 1,317 030 1,313 041 1,784 022 946 022 946 027 1,167 030 1,323 024 1,025 022 980 023 993 021 920 024 1,025 032 1,396 033 1,445 023 993 022 945
022 940 .031 1,340 .040 1,747 .030 1,290 .030 1,290 .030 1,317 .030 1,313 .041 1,784 .022 946 .021 946 .022 946 .021 1,025 .022 980 .023 993 .021 920 .024 1,025 .032 1,396 .033 1,445 .023 993 .022 945
.031 1,340 040 1,747 030 1,290 030 1,317 030 1,317 030 1,317 030 1,313 041 1,784 022 946 022 946 027 1,167 030 1,323 024 1,025 022 980 023 993 .021 920 024 1,025 032 1,396 033 1,445 023 993 022 945
040 1,747 030 1,290 030 1,317 030 1,313 041 1,784 022 946 022 946 022 946 027 1,167 030 1,323 024 1,025 022 980 023 993 021 920 024 1,025 032 1,396 033 1,445 023 993 022 945
030 1,290 030 1,317 030 1,317 030 1,317 041 1,784 022 946 022 946 022 946 027 1,167 030 1,323 024 1,025 022 980 023 993 021 920 024 1,025 032 1,396 033 1,445 023 993 022 945
030 1,317 030 1,313 .041 1,784 022 946 022 946 022 946 022 946 027 1,167 030 1,323 024 1,025 022 980 023 993 .021 920 024 1,025 032 1,396 .033 1,445 .023 993 .022 945
030 1,313 .041 1,784 .022 946 .022 946 .027 1,167 .030 1,323 .024 1,025 .022 980 .023 993 .021 920 .024 1,025 .033 1,445 .023 993 .024 1,025 .032 1,396 .033 1,445 .023 993 .022 945
.041 1,784 .022 946 .022 946 .027 1,16' .030 1,323 .024 1,025 .022 980 .023 993 .021 920 .023 1,396 .033 1,445 .023 993 .022 945
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022 946 027 1,16' 030 1,323 024 1,025 022 980 023 993 .021 920 024 1,025 .032 1,396 .033 1,445 .023 993 .022 945
027 1,16' 030 1,323 024 1,025 022 980 023 993 .021 920 024 1,025 .033 1,396 .033 1,445 .023 993 .022 945
030 1,323 024 1,025 022 980 023 993 021 920 024 1,025 033 1,396 033 1,445 023 993 024 1,025 032 1,396 033 1,445 023 993 022 945
024 1,025 022 980 023 993 021 920 024 1,025 032 1,396 033 1,445 023 993 022 945
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023 993 .021 920 .024 1,029 .032 1,396 .033 1,445 .023 993 .022 945
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.023 993 .022 945
.022 945
022 045
022 340
.022 945
.022 945
.032 1,390
.027 1,178
.027 1,178
.027 1,156
.024 1,046
.024 1,044
.027 1,19
.030 1,309
.024 1,042
.024 1,044
.024 1,04
.024 1,04
.024 1,04

LOT NO.	ACRES	SQ. FT
41	0.017	742
42	0.017	742
43	0.017	742
44	0.017	742
45	0.017	742
46	0.022	974
47	0.022	974
48	0.017	742
49	0.017	742
50	0.017	742
51	0.017	742
52	0.017	742
53	0.029	1,275
54	0.035	1,506

H.O.A. LOTS				
LOT NO.	ACRES			
1X	0.056			
2X	0.026			
ЗX	0.151			
4X	0.028			
5X	0.056			
8X	0.446			
9X	0.169			
10X	0.130			
13X	0.169			
15X	0.307			
16X	0.114			
17X	0.078			

THE PURPOSE OF THIS REPLAT IS TO CREATE 258 LOTS, 17 COMMON AREAS AND DEDICATE RIGHT-OF-WAY.





OWNERS CERTIFICATE

WHEREAS URBAN INTOWNHOMES, LTD., AND BELTLINE BELTWAY INVESTMENTS, LTD., are the owners of a tract of land situated in the Thomas L. Chenoweth Survey, Abstract No.273, Town of Addison, Dallas County, Texas and being all of Lot 1, Bock A, of Sam's Club Addition, an addition to the Town of Addison, Texas according to the plat recorded in Volume 2004081, Page 210, Official Public Records of Dallas County, Texas and all of a tract of land described in Special Warranty Deed to Beltline Beltway Investments, Ltd. recorded in Instrument No. 201600029149, Official Public Records of Dallas County, Texas and all of a tract of land described in Special Warranty Deed to Urban Intownhomes, LLC, recorded in Instrument No. 201600028422, Official Public Records of Dallas County, Texas and being more particularly described as follows:

BEGINNING at a 5/8" iron rod with plastic cap stamped "RPLS 5199" found in the south right-of-way line of Beltline Road (a variable width right-of-way) at the northwest corner of Lot 2, Block A, of Sam's Club Addition, an addition to the Town of Addison, Texas according to the plat recorded in Instrument No. 92109, Page 3687, Official Public Records of Dallas County,

THENCE departing said south right-of-way line and with the west line of said Lot 2, Block A, South 0°01'29" West, a distance of 353.00 feet to a 5/8" iron rod with plastic cap found at the southwest corner of said Lot 2, Block A;

THENCE with the south line of said Lot 2, Block A, North 89°56'38" East, a distance of 203.48 feet to a 5/8" iron rod found in the west line of a tract of land described in Special Warranty Deed to Piedmont Midway Partners, L.P., recorded in Volume 2004009, Page 6138, Official Public Records of Dallas County, Texas at the southeast corner of said Lot 2, Block A;

THENCE with said west line of the Piedmont Midway Partners, L.P. tract, South 1°16'17" East, a distance of 110.56 feet to an 5/8" iron rod with aluminum disk set in concrete in the north line of Lot 3 of said Block A at the southwest corner of said Piedmont Midway Partners, L.P. tract;

THENCE with said north line, South 89°56'40" West, a distance of 95.80 feet to a 5/8" iron rod found at the northwest corner of said Lot 3, Block A;

THENCE with the west line of said Lot 3, Block A, South 0°01'22" West, a distance of 289.41 feet to a 1/2" iron rod found at the northeast corner of a tract of land described in Special Warranty Deed to the Town of Addison, recorded in Volume 200026, Page 5143, Deed Records of Dallas County, Texas;

THENCE with the south side of said wall, the following courses and distances to wit: South 86°25'51" West, a distance of 15.13 feet to a point at the bottom of a wall for corner; South 66°05'06" West, a distance of 9.84 feet to a point at the bottom of a wall for corner; South 64°24'55" West, a distance of 15.43 feet to a point at the bottom of a wall for corner; South 62°33'01" West, a distance of 15.64 feet to a point at the bottom of a wall for corner; South 66°53'41" West, a distance of 16.43 feet to a point at the bottom of a wall for corner; South 77°20'26" West, a distance of 16.07 feet to a point at the bottom of a wall for corner; South 80°25'39" West, a distance of 16.08 feet to a point at the bottom of a wall for corner; South 81°22'40" West, a distance of 15.88 feet to a point at the bottom of a wall for corner; South 87°30'56" West, a distance of 15.73 feet to a point at the bottom of a wall for corner; South 89°02'45" West, a distance of 32.33 feet to a point at the bottom of a wall for corner; North 89°58'45" West, a distance of 56.82 feet to a point at the bottom of a wall for corner; North 89°47'47" West, a distance of 56.42 feet to a point at the bottom of a wall for corner; South 0°11'10" East, a distance of 6.11 feet to a point at the bottom of a wall for corner; South 89°48'50" West, a distance of 100.29 feet to a point at the bottom of a wall for corner; South 0°02'45" East, a distance of 3.93 feet to a point at the bottom of a wall for corner; South 89°57'15" West, a distance of 24.19 feet to a point at the bottom of a wall for corner; South 0°26'51" West, a distance of 5.95 feet to a point at the bottom of a wall for corner; North 89°41'07" West, a distance of 25.76 feet to a point at the bottom of a wall for corner; North 0°17'44" West, a distance of 6.39 feet to a point at the bottom of a wall for corner; South 89°29'58" West, a distance of 24.40 feet to a point at the bottom of a wall for corner; South 0°49'14" East, a distance of 9.91 feet to a point at the bottom of a wall for corner; South 89°22'24" West, a distance of 25.89 feet to a point at the bottom of a wall for corner; North 0°00'40" West, a distance of 9.87 feet to a point at the bottom of a wall for corner; North 89°57'30" West, a distance of 97.86 feet to a point at the bottom of a wall for corner; South 0°44'00" West, a distance of 10.07 feet to a point at the bottom of a wall for corner; South 89°54'09" West, a distance of 102.06 feet to a point at the bottom of a wall for corner; North 0°22'23" West, a distance of 9.95 feet to a point at the bottom of a wall for corner; North 89°52'21" West, a distance of 97.97 feet to a point at the bottom of a wall for corner; South 0°51'19" West, a distance of 9.97 feet to a point at the bottom of a wall for corner; North 89°50'57" West, a distance of 26.00 feet to a point at the bottom of a wall for corner; North 1°14'11" East, a distance of 3.78 feet to a point at the bottom of a wall for corner; North 89°49'51" West, a distance of 26.13 feet to a point at the bottom of a wall for corner; North 0°02'44" West, a distance of 6.29 feet to a point at the bottom of a wall for corner; South 89°12'06" West, a distance of 26.17 feet to a point at the bottom of a wall for corner; South 1°57'19" East, a distance of 9.55 feet to a point at the bottom of a wall for corne South 88°16'03" West, a distance of 26.05 feet to a point at the bottom of a wall for corner: North 0°03'54" East, a distance of 4.02 feet to a point at the bottom of a wall for corner; South 89°59'51" West, a distance of 90.27 feet to a point at the bottom of a wall for corner; North 1°06'48" East, a distance of 55.89 feet to a point at the bottom of a wall for corner; North 89°04'49" West, a distance of 6.66 feet to a point at the bottom of a wall for corner; North 0°18'29" East, a distance of 27.11 feet to a point at the bottom of a wall for corner; South 89°41'31" East, a distance of 9.26 feet to a point at the bottom of a wall for corner; North 1°13'10" East, a distance of 22.36 feet to a point at the bottom of a wall for corner; North 89°41'31" West, a distance of 10.26 feet to a point at the bottom of a wall for corner;

North 0°13'28" East, a distance of 36.84 feet to a point at the bottom of a wall for corner;

THENCE departing said wall, North 89°22'28" West, a distance of 40.30 feet to a 5/8" iron rod with aluminum disk set in the east line of Pecan Square Condominiums, an addition to the Town of Flower Mound, Texas according to the plat recorded in Volume 82165, Page 1772, Deed Records of Dallas County, Texas;

THENCE with said east line and the east line of Lot 2A, Block 1, Belt Line Center, an addition to the Town of Addison, Texas according to the plat recorded in Volume 97243, Page 1, Deed Records of Dallas County, Texas, North 0°07'16" West, at a distance of 296.77 feet passing a "PK" nail found at the northeast corner of said Lot 2A, Block 1 and the southeast corner of Lot 1, Block 1, Belt Line Centre, an addition to the Town of Addison, Texas according to the plat recorded in Cabinet 92145, Page 3641, Deed Records of Dallas County, Texas, continuing with the west line of said Lot 1, Block 1, in all a total distance of 441.36 feet to a 5/8" iron rod found at the southwest corner of Lot 4 of said Block A, Sam's Club Addition;

THENCE departing said east line and with the south line of said Lot 4, Block A, South 89°24'12" East, a distance of 175.00 feet to a 5/8" iron rod with plastic cap stamped "KHA" set at the southeast corner of said Lot 4, Block A, from which a 5/8" iron rod found bears South 71°43' West, a distance of 0.4 feet;

THENCE with the east line of said Lot 4, Block A, North 0°07'14" West, a distance of 230.00 feet to a 5/8" iron rod with aluminum disk set in concrete in said south right-of-way line of Beltline Road at the northwest corner of said Lot 1, Block A, Sam's Club Addition;

NOTES:

Notice: Selling a portion of this addition by metes and bounds is a violation of Town ordinance and state law and is sbuject to fines and witholding of utilities and building permits

Zoning: PD-324-Townhome; Built to Patio Home Standards

All driveways shall access the alleys; no driveways may access streets

Placement of street trees shall not interfere with the placement of traffic control devices or visibility at intersections. Existing and future traffic control devices may require the removal or preclude the planting of street trees.

Development standards of this plat shall comply with Appendix A of the Addison Code of Ordinances.

No floodplain exists on the site

SURVEYORS CERTIFICATION

KNOW ALL MEN BY THESE PRESENTS:

I, DANA BROWN, a Registered Professional Land Surveyor in the State of Texas, do hereby declare that I have prepared this plat from an actual on the ground survey of the land, and that the corner monuments shown thereon were properly placed under my personal supervision in accordance with Subdivision Regulations of the Town of Addison, Texas.

Dana Brown Registered Professional Land Surveyor #5336 Kimley-Horn and Associates, Inc. 13455 Noel Road, Two Galleria Office Tower, Suite 700 Dallas, Texas 75240 972-770-1300

STATE OF TEXAS COUNTY OF DALLAS



BEFORE ME, the undersigned authority, a Notary Public, on this day personally appeared Dana Brown, known to me to be the person whose name is subscribed to the foregoing instruments, and acknowledged to me that he executed the same for the purpose and considerations therein expressed and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this A day of Acombor, 2017.

NOTARY PUBLIC in and for the STATE OF TEXAS

MICOLE TRIBBETT Notary Public, State of Texas Comm. Expires 02-02-2020 Notary ID 130520505

THENCE departing said west line, North 89°59'45" West, a distance of 20.12 feet to a point at the bottom of a wall for corner;

THENCE with said south right-of-way line, the following courses and distances to wit:

South 89°24'12" East, a distance of 173.70 feet to a "X" cut in concrete found for corner;

North 0°35'48" East, a distance of 15.00 feet to a "X" cut in concrete found for corner;

South 89°24'12" East, a distance of 202.08 feet to a 5/8" iron rod with plastic cap stamped "KHA" set at the beginning of a non-tangent curve to the left having a central angle of 11°45'03", a radius of 317.00 feet, a chord bearing and distance of South 76°02'24" East, 64.90 feet;

In a southeasterly direction, with said curve to the left, an arc distance of 65.01 feet to a 5/8" iron rod with plastic cap stamped "KHA" set for corner;

South 89°24'12" East, a distance of 312.32 feet to the POINT OF BEGINNING and containing 17.357 acres or 756,073 square feet of land.

Conformed Copy Official Public Records John F. Warren, County Clerk Dallas County, TEXAS 12/19/2017 02:33:47 PM \$139.00

201700353297



OWNERS DEDICATION

That URBAN INTOWNHOMES, LTD., AND BELTLINE BELTWAY INVESTMENTS, LTD. ("Owners") do hereby adopt this plat designating the hereinabove property as GROVE ADDITION, an addition to the Town of Addison, Texas, and subject to the conditions, restrictions and reservations stated hereinafter, owner dedicates to the public u the streets and alleys shown thereon.

successors, and assigns:

The easement shown on this plat are hereby reserved for the purposes as indicated, including, but not limited to, the installation and maintenance of water, sanitary sewer, sto drainage, election, telephone, gas and cable television. Owner shall have the right to use these easements, provided, however, that it does not unreasonably interfere or imped provision of the services to others. Said utility easements are hereby being reserved by mutual use and accommodation of all public utilities using or desiring to use the express easement of ingress and egress is hereby expressly granted on, over and across all such easements for the benefit of the provider of services for which easements are

The proposed detention area easement(s) within the limits of this addition, will remain as detention area(s) to the line and grade shown on the plans at all times and will be mai the individual owner(s) of the lot or lots that are traversed by or adjacent to the detention area(s). The Town of Addison will not be responsible for the maintenance and operational operation of the second operation of the second operation. detention area(s) or any damage or injury to private property or person that results from the flow of water along, into or out of said detention area(s), or for the control of erosion

No obstruction to the natural flow of storm water run-off shall be permitted by filling or construction of any type of dam, building, bridge, fence, walkway or any other structure designated detention area(s) unless approved by the Director of Public Works, provided; however, it is understood that in the event it becomes necessary for the Town of a erect any type of drainage structure in order to improve the storm drainage that may be occasioned by the streets and alleys in or adjacent to the subdivisions, then, in such Town of Addison shall have the right to enter upon the detention area(s) at any point, or points, to erect, construct and maintain any drainage facility deemed necessary for purposes. Each property owner shall keep the detention area(s) traversing or adjacent to his property clean and free of debris, silt and any substance which would result in conditions or blockage of the drainage. The Town of Addison shall have the right of ingress and egress for the purpose of inspection and supervision of maintenance w property owner(s), or to alleviate any undesirable conditions, which may occur.

The detention area(s) as in the case of all detention areas are subject to storm water overflow(s) to an extent which cannot be clearly defined. The Town of Addison shall r liable for any damages of any nature resulting from the occurrences of these natural phenomena, nor resulting from the failure of any structure or structures, within the detent or subdivision storm drainage system.

The detention area easement line identified on this plat shows the detention area(s) serving this addition.

Water main and sanitary sewer easements shall also include additional area of working space for construction and maintenance of the systems. Additional easement and conveyed for installation and maintenance of manholes, cleanouts, fire hydrants, water service and sewer services from the main to curb or pavement line, and the description additional easements herein granted shall be determined by their locations as installed.

This plat is approved subject to all platting ordinances, rules, regulations and resolutions of the Town of Addison, Texas.

WITNESS, my hand, this _____ day of _____ day of ______

Vice President



The lien holder or mortgagee concurs with the Owner's Certificate and agrees to subordinate its interests to the provisions of the Owner's Dedication.

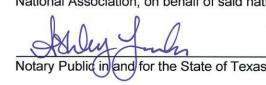
Lien holder:

Texas Capital Bank, N.A Sabrina Chou

Vice President Name:

STATE OF TEXAS COUNTY OF HARRIS

Japrina (nou



THE PURPOSE OF THIS REPLAT IS TO CREATE 258 LOTS, 17 COMMON AREAS AND DEDICATE RIGHT-OF-WAY.

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

This plat is approved by the Town of Addison and accepted by the owners(s), subject to the following conditions which shall be binding upon the owner(s), his heirs, gra

URBAN INTOWNHOMES, LTD., a Texas limited partnership

URBAN INFOWNHOMES GP, LLC, a Texas limited liability company (its Manager) STATE OF TEXAS

COUNTY OF HARRIS §

BEFORE ME, the undersigned Authority, A Notary Public in and for said county and state, or personally appeared Carmen Pearson, the Vice President of Urban Intownhomes, GP, LLC., limited liability company acting as Manager of Urban Intownhomes, Ltd., a Texas limited part on behalf of said limited partnership.

GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS 4"DAY OF DECUMPER

NOTARY PUBLIC in and for the STATE OF TEXAS



BELTLINE BELTWAY INVESTMENTS, LTD., a Texas limited partnership

By: Country Lane GP, LLC, a Texas limited liability company (its General Partner)

STATE OF TEXAS COUNTY OF HARRIS

BEFORE ME, the undersigned Authority, A Notary Public in and for said county and state, on personally appeared David Foor, Vice President of Country Lane GP, LLC, a Texas limited lia company acting as General Partner of Beltline Beltway Investments, Ltd., a Texas limited par on behalf of said limited partnership.

GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS 4th DAY OF December

Hone NOTARY PUBLIC in and for the STATE OF TEXAS

PHALYCA KONG otary Public, State of Texe My Commission Expire July 08, 2018

APPROVED BY THE PLANNING AND ZONING COMMISSION OF THE TOWN OF ADDISON, TEXAS ON

This instrument was acknowledged before me on December 4,2017 by

as Vice President, of Texas Capital Bank, a National Association, on behalf of said national banking association.

ASHLEY FOWLER otary Public, State of Texas Comm. Expires 06-30-2018 Notary ID 129797692



Vice Chair, Planning and Zoning Commission

City Secretary

