PLANS FOR THE CONSTRUCTION OF

SITE CIVIL IMPROVEMENTS

FOR

BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

TOWN PROJECT # 17-06

OWNER/DEVELOPER:

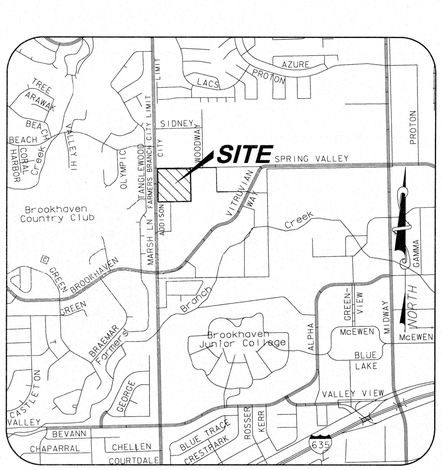
UDR
3875 PONTE AVE., SUITE 400
ADDISON, TEXAS 75001
PH: (972) 720-3548
CONTACT: BRIAN RICHARDSON

CIVIL ENGINEER:

ICON CONSULTING ENGINEERS, INC.
2840 W. SOUTHLAKE BLVD., SUITE 110
SOUTHLAKE, TEXAS 76092
PH: (817) 552-6210
FAX: (817) 778-4845
CONTACT: BRUCE F. DUNNE, P.E.

SURVEYOR:

KADLECK & ASSOCIATES,
A DIVISION OF WESTWOOD
2740 NORTH DALLAS PKWY., SUITE 280
PLANO, TEXAS, 75093
PH: (214) 473-4640
CONTACT: LYNN KADLECK, R.P.L.S.



VICINITY MAP

NOT TO SCALE
(MAPSCO GRID 13 & 14)

icon Consulting Engineers, Inc.
Civil Engineers- Designers- Planners
ENGINEERING FIRM REGISTRATION NUMBER F-9007

DECEMBER 15, 2017

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ADDISON

APPROVED FOR CONSTRUCTION

INFRASTRUCTURE & DEVELOPMENT SERVICES

BY: _____

DATE: 1/30/18

IN APPROVING THESE PLANS, THE TOWN OF ADDISON ASSUMES NO RESPONSIBILITY FOR THEIR ADEQUACY, WHICH REMAINS WITH THE ENGINEER OF RECORD.

16801 WESTGROVE DRIVE, ADDISON, TX 75001 - (972) 450-2871

12/15/17
BRUCE F. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER

PROJECT NO. 5134-01

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

BROOKHAVEN VILLAGE SHOPPING CENTER - PROJECT NO. 5134-01

BHAVEN. VILLAGE
SITE IMP.

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VITRUVIAN PARK ADDITION



VICINITY MAP
No Scale

LEGEND

○	5/8" IRON ROD WITH YELLOW PLASTIC CAP STAMPED "WESTWOOD PS" SET
O.P.R.D.C.T.	OFFICIAL PUBLIC RECORDS, DALLAS COUNTY, TEXAS
D.R.D.C.T.	DEED RECORDS, DALLAS COUNTY, TEXAS
U.E.	UTILITY EASEMENT
478	Existing Ground Contour

BENCHMARK LIST

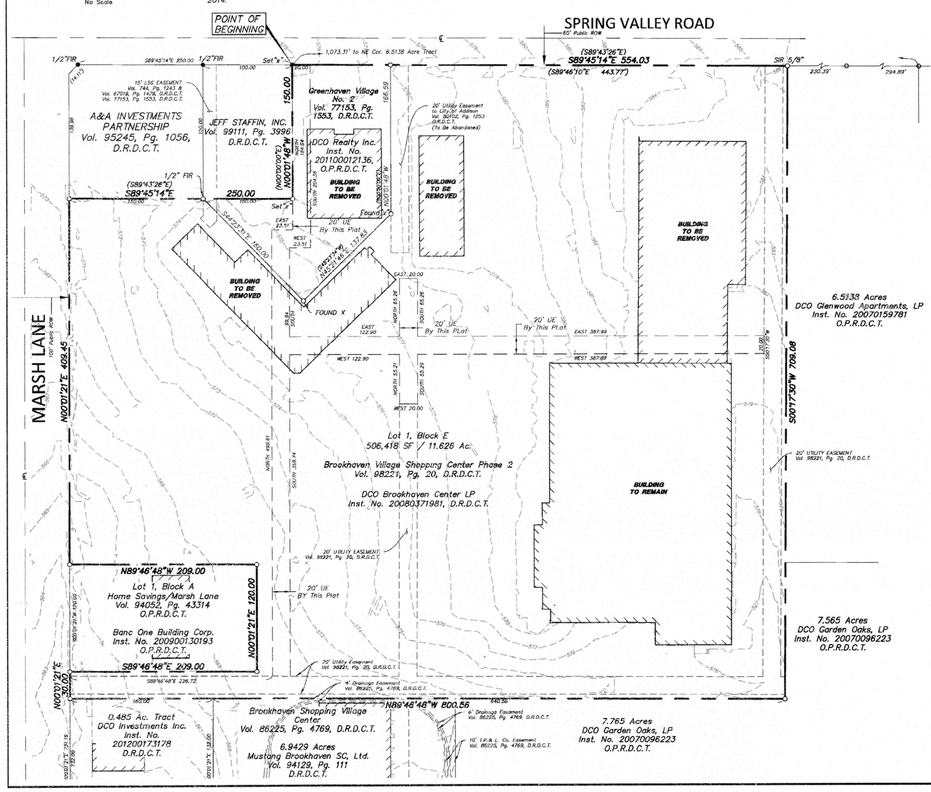
BM: City of Addison Monument No. 1 being a disk set in concrete on the north side of Spring Valley Road, approximately 147 feet east of the centerline of Marsh Lane.
Elevation 573.00

TBM: Square cut on top of curb inlet on the north side of Spring Valley Road, approximately 500 feet east of the centerline of Brookhaven Club Drive.
Elevation 563.49

TBM: Square cut on top of curb inlet on the south side of Spring Valley Road, approximately 1050 feet west of the centerline of Brookhaven Club Drive.
Elevation 582.98

SURVEYOR'S NOTES

1. Development standards of this plat shall comply with Zoning Ord. 66 as amended.
2. "Notice: Selling a portion of this addition by metes and bounds is a violation of city ordinance and state law subject to fines and withholding of utilities and building permits."
3. 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.
4. Property is located in Zone "X" (areas determined to be outside the 500 year floodplain) according to FEMA FIRM Panel No. 48113C0190K, Date July 7, 2014.



SURVEYOR'S CERTIFICATE

STATE OF TEXAS }

I, L. LYNN KADLECK, a Registered Professional Land Surveyor, in the State of Texas, do hereby certify that I have prepared this plat from an actual on the ground survey of the land, and the monuments shown hereon were found and placed under my personal supervision in accordance with the platting rules and regulations of the City Plan Commission of the Town of Addison.

Dated this the 8th day of August 2016.

NOT FOR RECORDING

L. Lynn Kadleck
Registered Professional Land Surveyor No. 3952

STATE OF TEXAS }
COUNTY OF COLLIN }

BEFORE ME, the undersigned, a Notary Public in and for the State of Texas, on this day personally appeared L. Lynn Kadleck, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this the ____ day of _____ 2016.

Notary Public, State of Texas

OWNER'S CERTIFICATE

STATE OF TEXAS }
COUNTY OF DALLAS }

WHEREAS, DCO BROOKHAVEN CENTER LP, and DCO REALTY, INC., are the owners of a tract or parcel of land situated in the City of Addison, Dallas County, Texas, being a part of the Noah Good Survey, Abstract No. 520 and being all of 1) Greenhaven Village No. 2, an addition to the Town of Addison, Texas as shown by plat of record in Volume 77153, Page 1553 of the Deed Records, Dallas County, Texas, being the same land conveyed to DCO Realty Inc. by deed of record in Instrument No. 20110001021136 of the Official Public Records, Dallas County, Texas and all of 2) Brookhaven Village Shopping Center Phase 2, an addition to the Town of Addison, Texas as shown by plat of record in Volume 98221, Page 20 of said Deed Records, being the same land conveyed to DCO Brookhaven Center, LP by deed of record in Instrument No. 20080371981 of said Official Public Records, said 11.626 acre tract being more particularly described as follows:

Beginning at "X" cut in concrete set in the south right-of-way line of Spring Valley Road for the northeast corner of the 0.344 acre tract of land conveyed to Jeff Staffin, Inc. by deed of record in Volume 99111, Page 3996 of said Deed Records, said "X" being the northwest corner of said Greenhaven Village No. 2;

Thence South 89°45'14" East with said south right-of-way line, a distance of 554.03 feet to a 5/8"iron rod with yellow plastic cap stamped "WESTWOOD PS" set for the northwest corner of the 6.5138 acre tract of land conveyed to DCO Glenwood Apartments, LP by deed of record in Instrument No. 20070159781 of said Official Public Records, said rod being the northeast corner of said Brookhaven Village Shopping Center Phase 2;

Thence South 00°17'30" West with the west line of said 6.5138 acre tract, passing the southwest corner of said 6.5138 acre tract and a re-entrant corner in the north line of the 7.565 acre tract of land conveyed to DCO Garden Oaks, LP by deed of record in Instrument No. 20070096223 of said Official Public Records, and continuing along the north line thereof a total distance of 709.08 feet to a 5/8" iron rod with yellow plastic cap stamped "WESTWOOD PS" set for the southeast corner of said Brookhaven Village Shopping Center Phase 2;

Thence North 89°46'48" West continuing with the north line of said 7.565 acre tract, passing the northwest corner thereof and continuing along the north lines of Brookhaven Village Shopping Center, an addition to the Town of Addison, Texas as shown by plat of record in Volume 86225, Page 4769 of said Deed Records, being the same land conveyed to Mustang Brookhaven SC, LTD by deed of record in Volume 94129, Page 111 and the 0.485 acre tract of land conveyed to DCO Investments, Inc. by deed of record in Instrument No. 20120073178 said Deed Records a total distance of 800.56 feet to a 5/8" iron rod with yellow plastic cap stamped "WESTWOOD PS" set in the east right-of-way line of Marsh Lane for the northwest corner of said 0.485 acre tract and the southwest corner of said Brookhaven Village Shopping Center Phase 2;

Thence North 0°01'21" East with said east right-of-way line, a distance of 30.00 feet to a 5/8" iron rod with yellow plastic cap stamped "WESTWOOD PS" set for the southwest corner of Lot 1, Block A of the Home Savings / Marsh Lane Addition, an addition to the Town of Addison, Texas as shown by plat of record in Volume 94052, Page 4334 of said Deed Records, being the same land conveyed to Banc One Building Corporation by deed of record in Instrument No. 20090013093 of said Official Public Records;

Thence South 89°46'48" East a distance of 209.00 feet 5/8" iron rod with yellow plastic cap stamped "WESTWOOD PS" set for the southeast corner of said Lot 1, Block A;

Thence North 0°01'21" East a distance of 120.00 feet to a 5/8"iron rod with yellow plastic cap stamped "WESTWOOD PS" set for the northeast corner of said Lot 1, Block A;

Thence North 89°46'48" West a distance of 209.00 feet to a 5/8" iron rod with yellow plastic cap stamped "WESTWOOD PS" set in said east right-of-way line for the northwest corner of said Lot 1, Block A;

Thence North 0°01'21" East with said east right-of-way line, a distance of 409.45 feet to a 5/8"iron rod with yellow plastic cap stamped "WESTWOOD PS" set for the southwest corner of the 0.5154 acre tract of land conveyed to A+A Investments Partnership by deed of record in Volume 95245, Page 1056 of said Deed Records;

Thence South 89°45'14" East with the south lines of said 0.5154 acre tract and said 0.344 acre tract, a distance of 250.00 feet to an "X" cut in concrete set for the southeast corner of said 0.344 acre tract;

Thence North 00°01'48" West a distance of 150.00 feet to the Point-of-Beginning and containing 506,418 Square Feet or 11.626 acres of land.

NOTES

The bearing basis for this plat is a bearing of S 26°18'00" W for Brookhaven Club Drive (now Vitruvian Way) as indicated in the deed to DCO Clipper Pointe, LP as recorded in County Clerk Instrument No. 20070170325, Deed Records of Dallas County, Texas.

CERTIFICATE OF APPROVAL

APPROVED this _____ day of _____, 2016 by Town of Addison, Texas.

Chair, Planning and Zoning Commission

City of Secretary

THIS PLAT FILED ON _____ IN INSTRUMENT NO. _____, O.P.R.D.C.T.

OWNER'S DEDICATION STATEMENT

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

That DCO BROOKHAVEN CENTER LP, and DCO REALTY, INC. ("Owners") do hereby adopt this plat designating the hereinabove property as Lot 1, Block E, VITRUVIAN PARK ADDITION, an addition to the Town of Addison, Texas, and subject to the conditions, restrictions and reservations stated hereinafter, owner dedicates to the public use forever the streets and alleys shown thereon.

The easements 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, storm sewer, drainage, electric, telephone, gas and cable television. Owner shall have the right to use these easements, provided, however, that it does not unreasonably interfere or impede with the 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 same. An 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 granted.

Any drainage and floodway easement shown hereon is hereby dedicated to the public's use forever, but including the following covenants with regards to maintenance responsibilities. The existing channels or creeks traversing the drainage and floodway easement will remain as an open channel, unless required to be enclosed by ordinance, at all times and shall be maintained by the individual owners of the lot or lots that are traversed by or adjacent to the drainage and floodway easement. The Town will not be responsible for the maintenance and operation of said creek or creeks or for any damage or injury of private property or person that results from the flow of water along said creek, or for the control of erosion. No obstruction to the natural flow of water runoff shall be permitted by construction of any type building, fence or any other structure within the drainage and floodway easement. Provided, however, it is understood that in the event it becomes necessary for the Town to channelize or consider erecting any type of drainage structure in order to improve the storm drainage, then in such event, the Town shall have the right, but not the obligation, to enter upon the drainage and floodway easement at any point, or points, with all rights of ingress and egress to investigate, survey, erect, construct or maintain any drainage facility deemed necessary by the Town for maintenance or efficiency of its respective system or service.

Water main and sanitary sewer easements shall also include additional area of working space for construction and maintenance of the systems. Additional easement area is also 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 descriptions of such 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 AT _____, _____, this the ____ day of _____, 2016.

By: DCO BROOKHAVEN CENTER LP,
By: DCO REALTY, INC., a Delaware corporation

By: DCO REALTY, INC.

Tom Lamberth, Authorized Agent

THE STATE OF TEXAS §
COUNTY OF DALLAS §

BEFORE ME, the undersigned, a Notary Public in and for the State of Texas, on this day personally appeared Tom Lamberth, authorized agent for DCO Realty, Inc., a Delaware corporation, general partner of DCO Brookhaven Center, LP, a Delaware limited partnership, on behalf of said limited partnership, known to me to be the person and officer whose name is subscribed to the foregoing instrument and acknowledged to me that the same was the act of the said DCO Realty, Inc. and that he executed the same for the purposes and considerations therein expressed and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this the ____ day of _____, 2016.

Notary Public, State of Texas

PRELIMINARY PLAT
OF
VITRUVIAN PARK ADDITION
LOT 1, BLOCK E
11.626 ACRES
OUT OF THE
NOAH GOOD SURVEY, ABSTRACT NO. 520
IN THE
CITY OF ADDISON, DALLAS COUNTY, TEXAS

OWNER
DCO BROOKHAVEN CENTER LP, AND
DCO REALTY, INC.
C/O TOM LAMBERTH
3875 PONTE AVENUE, SUITE 400
ADDISON, TEXAS 75001
972-716-3560
ENGINEER/SURVEYOR
KADLECK & ASSOCIATES
a Division of Westwood
Westwood Professional Services, Inc. westwoodps.com
2740 North Dallas Pkwy., Ste. 280 Plano, TX 75093
Phone (214) 473-4640 Toll Free (888) 937-5150
TBPE Firm Reg. No. 11756 TBPLS Firm Reg. No. 10074301

07-11-16 #0009681

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PRELIMINARY
FOR REFERENCE ONLY

FP1

VITRUVIAN PARK SHOPPING CENTER – PROJECT NO. 5134-01

GENERAL CONSTRUCTION NOTES

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

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

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 GOVERNING AUTHORITY AND ENGINEER DISCLAIM ANY RESPONSIBILITY FOR THE ACCURACY, TRUE LOCATION AND EXTENT OF THE SOILS INFORMATION THAT HAS BEEN PREPARED BY OTHERS. THEY FURTHER DISCLAIM RESPONSIBILITY FOR INTERPRETATION OF THAT DATA BY THE CONTRACTOR, AS IN PROJECTING SOIL BEARING VALUES, ROCK PROFILES, SOILS STABILITY AND THE PRESENCE, LEVEL AND EXTENT OF UNDERGROUND WATER.

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

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

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

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

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

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

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

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

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

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

12. INSPECTION: INSPECTION OF THE PROPOSED CONSTRUCTION WILL BE PROVIDED BY AND PAID FOR BY THE GOVERNING AUTHORITY. 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 GOVERNING AUTHORITY FOR SCHEDULING OF INSPECTION SERVICES.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

25. PARKING OF CONSTRUCTION EQUIPMENT: AT NIGHT AND DURING ALL OTHER PERIODS OF TIME WHEN EQUIPMENT IS NOT BEING ACTIVELY USED FOR THE CONSTRUCTION WORK, THE CONTRACTOR SHALL PARK THE EQUIPMENT AT LOCATIONS, WHICH ARE APPROVED BY THE GOVERNING AUTHORITY. 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 GOVERNING AUTHORITIES, THE PUBLIC AND THE OTHER WORK. ALL BARRICADES, LIGHTS, AND MARKERS MUST MEET THE REQUIREMENTS OF THE GOVERNING AUTHORITIES' REGULATIONS.

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

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

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

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

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

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

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

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

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

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

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

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

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

ABBREVIATIONS

APPROX	APPROXIMATELY	G	GAS	R	RADIUS
ASPH	ASPHALT	GI	GRATE INLET	RCB	REINFORCED CONCRETE BOX
BC	BACK OF CURB	GM	GAS METER	RCI	RECESSED CURB INLET
B–B	BACK TO BACK OF CURB	HDPE	HIGH DENSITY POLYETHYLENE PIPE	RCP	REINFORCED CONCRETE PIPE
BM	BENCHMARK	HDWL	HEADWALL	RCCP	REINFORCED CONCRETE CYLINDRICAL PIPE
BW	BOTTOM OF WALL	HMAC	HOT MIX ASPHALTIC CONCRETE		
CATV	CABLE TV	HORIZ	HORIZONTAL	REC	RECESSED
CFS	CUBIC FEET PER SECOND	HP	HIGH POINT	REINF	REINFORCED
CI	CURB INLET	HVAC	HEATING, VENTILATION AND AIR CONDITIONING	RL	RIDGE LINE
CMP	CORRUGATED METAL PIPE			ROW	RIGHT OF WAY
CO	CLEANOUT	IRR	IRRIGATION	RT	RIGHT
CONC	CONCRETE	JB	JUNCTION BOX	SF	SQUARE FEET
CONST	CONSTRUCT	JT	JOINT	SD	STORM DRAIN
CL	CENTER LINE	LF	LINEAR FEET	SQ	SQUARE
DCO	DOUBLE CLEANOUT	LP	LOW POINT	SS	SANITARY SEWER
DIA	DIAM

SPRING VALLEY ROAD

EXISTING GAS STATION

EXISTING CAR WASH

EXISTING DAYCARE

EXISTING RETAIL

NORTHWEST

NORTHEAST

EXISTING RETAIL

EXISTING RETAIL

EXISTING APARTMENTS

SOUTHWEST

EXISTING GROCER

SOUTHEAST

EXISTING BANK

MARSH LANE

EXISTING RESTAURANT

EXISTING BUILDING

EXISTING APARTMENTS

EXISTING APARTMENTS

ADDISON

APPROVED FOR CONSTRUCTION

INFRASTRUCTURE & DEVELOPMENT SERVICES

BY: _____

DATE: 1/30/18

IN APPROVING THESE PLANS, THE TOWN OF ADDISON ASSUMES NO RESPONSIBILITY FOR THEIR ADEQUACY, WHICH REMAINS WITH THE ENGINEER OF RECORD.

16801 WESTGROVE DRIVE, ADDISON, TX 75001 - (972) 450-2871

WARNING

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

BM #1 REF. ELEVATION = 573.00
TOWN OF ADDISON MONUMENT NO. 1 BEING A DISK SET IN CONCRETE ON THE NORTH SIDE OF SPRING VALLEY ROAD, APPROX. 147 FEET EAST OF THE CENTERLINE OF MARSH LANE.

BM #2 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

NORTH

0 25 50 75 100
GRAPHIC SCALE IN FEET
SCALE: 1"=50'

BRUCE F. DUNNE 62654 LICENSED PROFESSIONAL ENGINEER 12/15/17

NO.	REVISION	BY	DATE

icon Consulting Engineers, Inc. 2840 W. Southlake Blvd., Suite 110
Civil Engineers - Designers - Planners Southlake, Tx 76092 (817) 552-6210
Engineering Firm Registration Number F-9007

BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

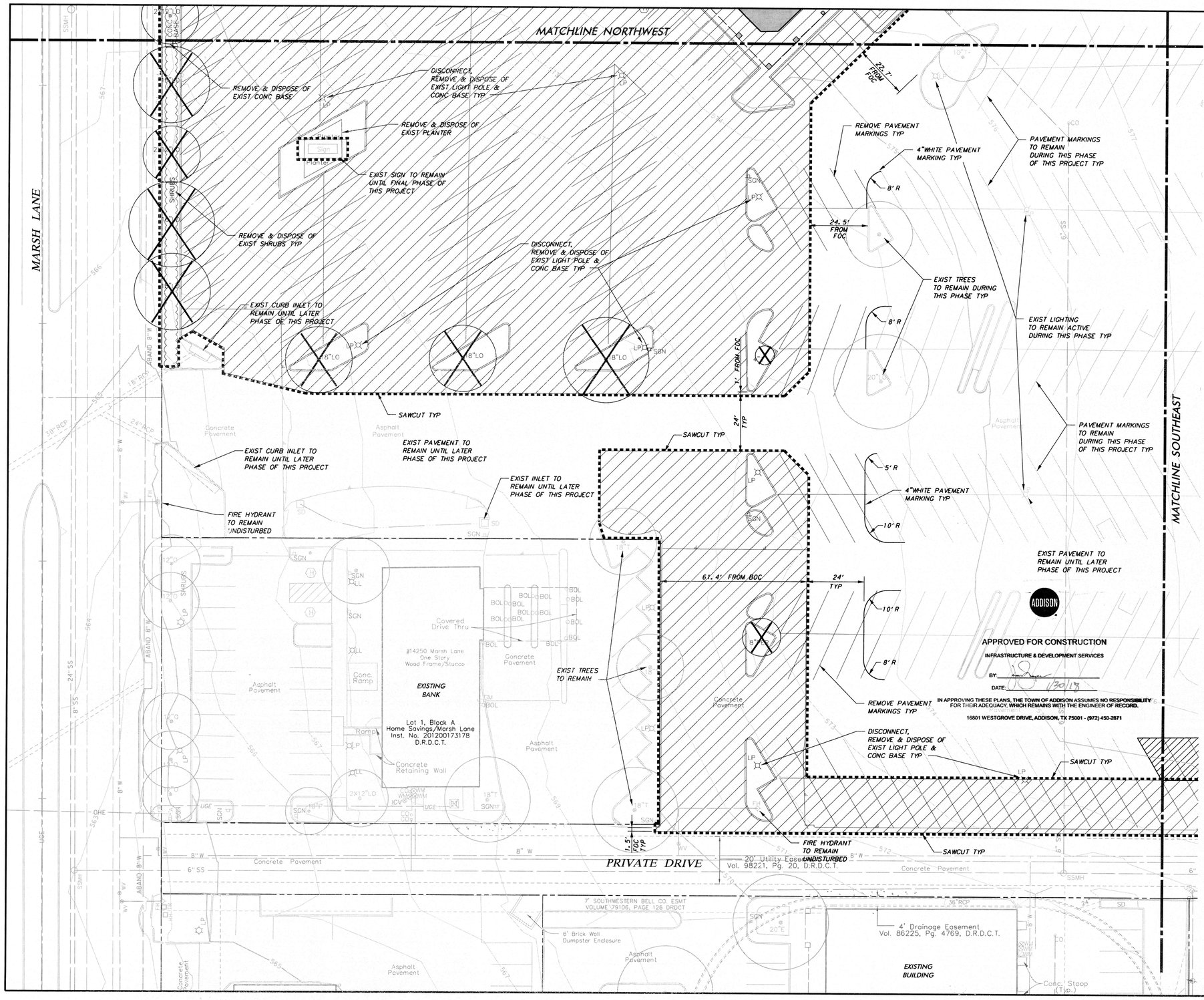
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

EXISTING OVERALL PLAN

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C1.00

BROOKHAVEN VILLAGE SHOPPING CENTER – PROJECT NO. 5134-01

TOWN PROJECT # 17-06



DEMOLITION NOTES:

1. **GENERAL CONSTRUCTION NOTES:** REFER TO SHEET C1.00 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THE PROJECT.

2. **INGRESS AND EGRESS:** THE CONTRACTOR SHALL MAINTAIN INGRESS AND EGRESS TO THE SITE AND ADJACENT PROPERTIES AT ALL TIMES AND CONDUCT HIS OPERATIONS WITH MINIMUM INTERFERENCE TO PUBLIC OR PRIVATE ACCESSES.

3. **PROTECTION OF EXISTING FACILITIES:** CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN TEMPORARY BARRIERS, FENCING, BRACING AND SHORING, AND SECURITY DEVICES TO PROTECT EXISTING STRUCTURES, UTILITIES, APPURTENANCES, TREES AND LANDSCAPING, AND TO PREVENT MOVEMENT OR SETTLEMENT OF EXISTING STRUCTURES WHICH ARE NOT TO BE DEMOLISHED AND/OR REMOVED.

4. **STORAGE OF MATERIALS FOR RE-USE:** CONTRACTOR SHALL REMOVE AND STORE ON SITE (WHERE DESIGNATED BY THE DEVELOPER), ALL MATERIALS TO BE SALVAGED OR RE-INSTALLED LATER IN CONSTRUCTION.

5. **FRANCHISE UTILITY COORDINATION:** THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ALL FRANCHISE UTILITY COMPANIES FOR THE REMOVAL AND/ OR RELOCATION OF THE RESPECTIVE UTILITY LINES AND APPARATUSES USED BY EACH UTILITY. ALL WORK ASSOCIATED WITH FRANCHISE UTILITY REMOVAL RELOCATION AND/OR MODIFICATIONS ARE TO BE PREFORMED ONLY BY THAT UTILITY PROVIDER UNLESS SPECIFICALLY NOTED OTHERWISE.

6. **TREE REMOVAL:** THE TREES DESIGNATED TO BE REMOVED HAVE A LARGE "X" THROUGH THE TREE SYMBOL. STOCKPILING OF TREES AFTER CUTTING/REMOVAL IS NOT ALLOWED. CONTRACTOR SHALL DISPOSE OF TREE CARCASSES IMMEDIATELY AFTER THEY ARE TAKEN DOWN.

7. **SAWCUTTING OF EXISTING PAVEMENT:** SAWCUTTING, WHERE INDICATED ON THE DRAWINGS FOR REMOVAL OF EXISTING PAVEMENT, SHALL BE A FULL DEPTH CUT THAT IS NEAT AND TRUE IN ALIGNMENT.

8. **BACKFILLING:** THE CONTRACTOR SHALL BACKFILL ALL EXCAVATED AREAS CAUSED AS A RESULT OF DEMOLITION, AND PROVIDE POSITIVE DRAINAGE TO PREVENT PONDING OF WATER.

9. **REMOVAL OF MATERIALS FROM SITE:** ALL MATERIALS TO BE REMOVED FROM THE SITE INCLUDING BUT NOT LIMITED TO UNSUITABLE EARTHEN MATERIAL; UTILITY PIPING; FENCING, ROCK, TRASH, REFUSE AND OTHER DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF OUTSIDE THE LIMITS OF THE PROJECT AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL WITH ALL APPLICABLE LAWS GOVERNING SPILLAGE OF DEBRIS WHILE TRANSPORTING TO A DISPOSAL SITE.

10. **REPLACEMENT OF DAMAGED FACILITIES:** ALL STRUCTURES, UTILITIES, PAVEMENT, SIDEWALKS, WALLS, FENCES, ETC. NOT DESIGNATED TO BE REMOVED BUT THAT ARE DAMAGE 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.

11. **ACCESS TO PROPERTIES:** STREET AND SIDEWALK ACCESS TO ABUTTING PROPERTIES DURING THE CONSTRUCTION OF THIS PROJECT MUST BE MAINTAINED FOR EMERGING OF LOCAL TRAFFIC.

12. **BUILDING ABATEMENT:**
ABATEMENT OF BUILDINGS CONTAINING ASBESTOS AND OTHER ENVIRONMENTALLY SENSITIVE MATERIALS IS A PART OF THIS CONTRACT AND WILL BE REQUIRED TO BE PERFORMED BY QUALIFIED PROFESSIONALS IN THIS LINE OF WORK BEFORE SITE DEMOLITION ACTIVITIES COMMENCE. ABATEMENT ACTIVITIES WILL INCLUDE REMOVAL OF CERTAIN PRE-ABATEMENT ITEMS ALONG WITH ALL ENVIRONMENTALLY SENSITIVE MATERIALS FROM THE SITE PRIOR TO DEMOLITION ACTIVITIES. THE DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE FOR FILING OF THE DEMOLITION NOTIFICATION WITH STATE OF TEXAS.

13. **BUILDING / STRUCTURE REMOVAL:**
DEMOLITION AND REMOVAL OF DESIGNATED BUILDINGS AND STRUCTURES SHALL INCLUDE ALL ABOVE GROUND MATERIALS WITHIN THE CONFINES OF THE BUILDING AND STRUCTURES. THE SLAB, FOUNDATION AND PIERS SHALL BE REMOVED TO A DEPTH OF 10 FEET.

14. **REMOVAL OF UTILITIES:**
NO PUBLIC WATER, WASTEWATER AND/OR STORM DRAINAGE FACILITIES ARE TO BE REMOVED IN THIS CONTRACT. THE CONTRACTOR SHALL DISCONNECT, REMOVE AND/OR CAP ALL PRIVATE UTILITIES AND SHALL DOCUMENT THE LOCATION OF CAPPED UTILITIES AND SUBSURFACE OBSTRUCTION THAT ARE ENCOUNTERED.

15. **TRAFFIC CONTROL:**
FOR ALL WORK PERFORMED WITHIN MARSH LANE RIGHT-OF-WAY, THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH THE REQUIREMENTS OUTLINED IN NOTE 22, TRAFFIC CONTROL, SHOWN ON SHEET C1.00.

16. **OWNER NOTIFICATION:**
CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF ANY ISSUES, OUTSIDE OF DAILY WORK, SUCH AS BROKEN WATER OR SEWER LINES, DAMAGE TO NEIGHBORING PROPERTIES, SUSPICIOUS ACTIVITIES, ETC.

LEGEND

- LIMITS OF DISTURBANCE
- EXISTING BUILDING TO BE REMOVED
- REMOVE & DISPOSE OF EXISTING PAVEMENT & CURB
- REMOVE & DISPOSE OF EXISTING TREE
- TREE PROTECTION FENCE

STATE OF TEXAS
BRUCE F. DUNNE
82654
LICENSED
PROFESSIONAL ENGINEER
12/15/17

NO.	REVISION	BY	DATE

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BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

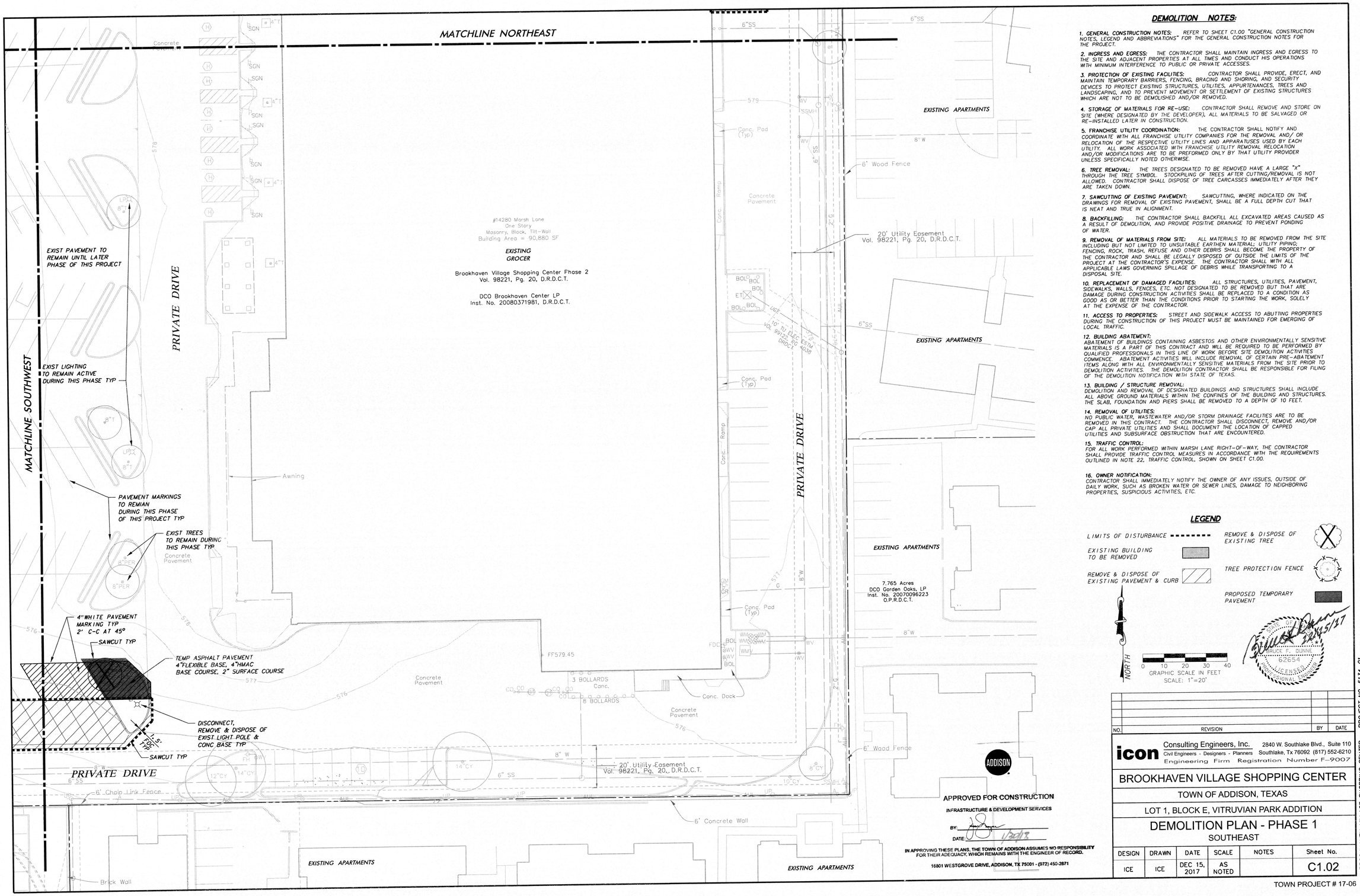
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

DEMOLITION PLAN - PHASE 1
SOUTHWEST

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C1.01

BROOKHAVEN VILLAGE SHOPPING CENTER - PROJECT NO. 5134-01

TOWN PROJECT # 17-06



DEMOLITION NOTES:

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LEGEND

- LIMITS OF DISTURBANCE
- EXISTING BUILDING TO BE REMOVED
- REMOVE & DISPOSE OF EXISTING PAVEMENT & CURB
- REMOVE & DISPOSE OF EXISTING TREE
- TREE PROTECTION FENCE
- PROPOSED TEMPORARY PAVEMENT

NORTH

0 10 20 30 40
GRAPHIC SCALE IN FEET
SCALE: 1"=20'

BRUCE F. DUNNE 62658 LICENSED PROFESSIONAL ENGINEER 12/5/17

NO.	REVISION	BY	DATE

icon Consulting Engineers, Inc. 2840 W. Southlake Blvd., Suite 110
Civil Engineers - Designers - Planners Southlake, Tx 76092 (817) 552-6210
Engineering Firm Registration Number F-9007

BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

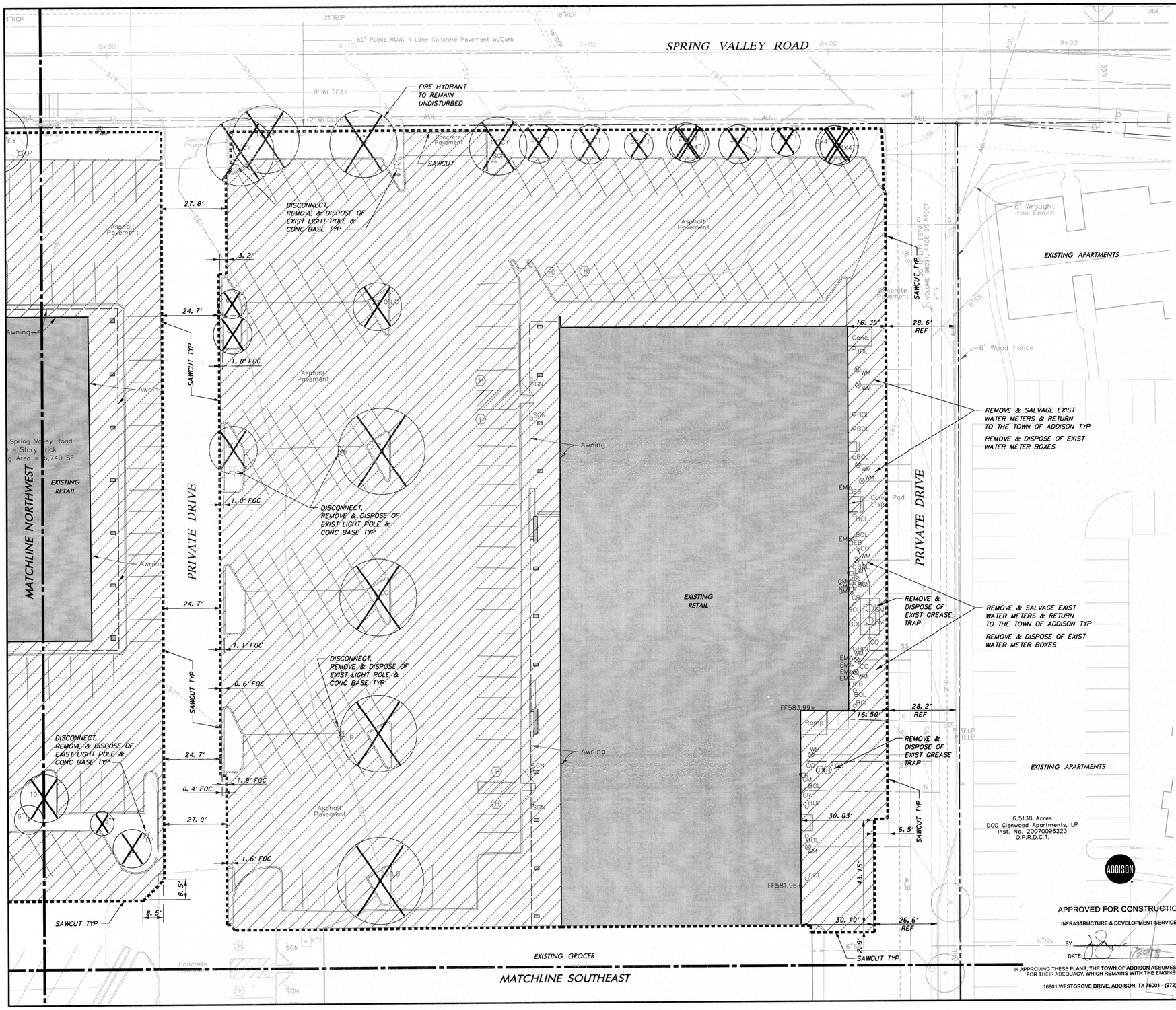
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

DEMOLITION PLAN - PHASE 1
SOUTHEAST

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C1.02

BROOKHAVEN VILLAGE SHOPPING CENTER – PROJECT NO. 5134-01

TOWN PROJECT # 17-06



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LEGEND

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- EXISTING BUILDING TO BE REMOVED
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- REMOVE & DISPOSE OF EXISTING TREE
- TREE PROTECTION FENCE

NORTH

0 10 20 30 40
GRAPHIC SCALE IN FEET
SCALE: 1"=20'

APPROVED FOR CONSTRUCTION
INFRASTRUCTURE & DEVELOPMENT SERVICES
BY
DATE:

IN APPROVING THESE PLANS, THE TOWN OF ADDISON ASSUMES NO RESPONSIBILITY FOR THEIR ADEQUACY, WHICH REMAINS WITH THE ENGINEER OF RECORD.

16801 WESTGROVE DRIVE, ADDISON, TX 75001 - (972) 450-2871

12/15/17
BRUCE F. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER

NO.	REVISION	BY	DATE

icon Consulting Engineers, Inc. 2840 W. Southlake Blvd., Suite 110
Civil Engineers - Designers - Planners Southlake, Tx 76092 (817) 552-6210
Engineering Firm Registration Number F-9007

BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

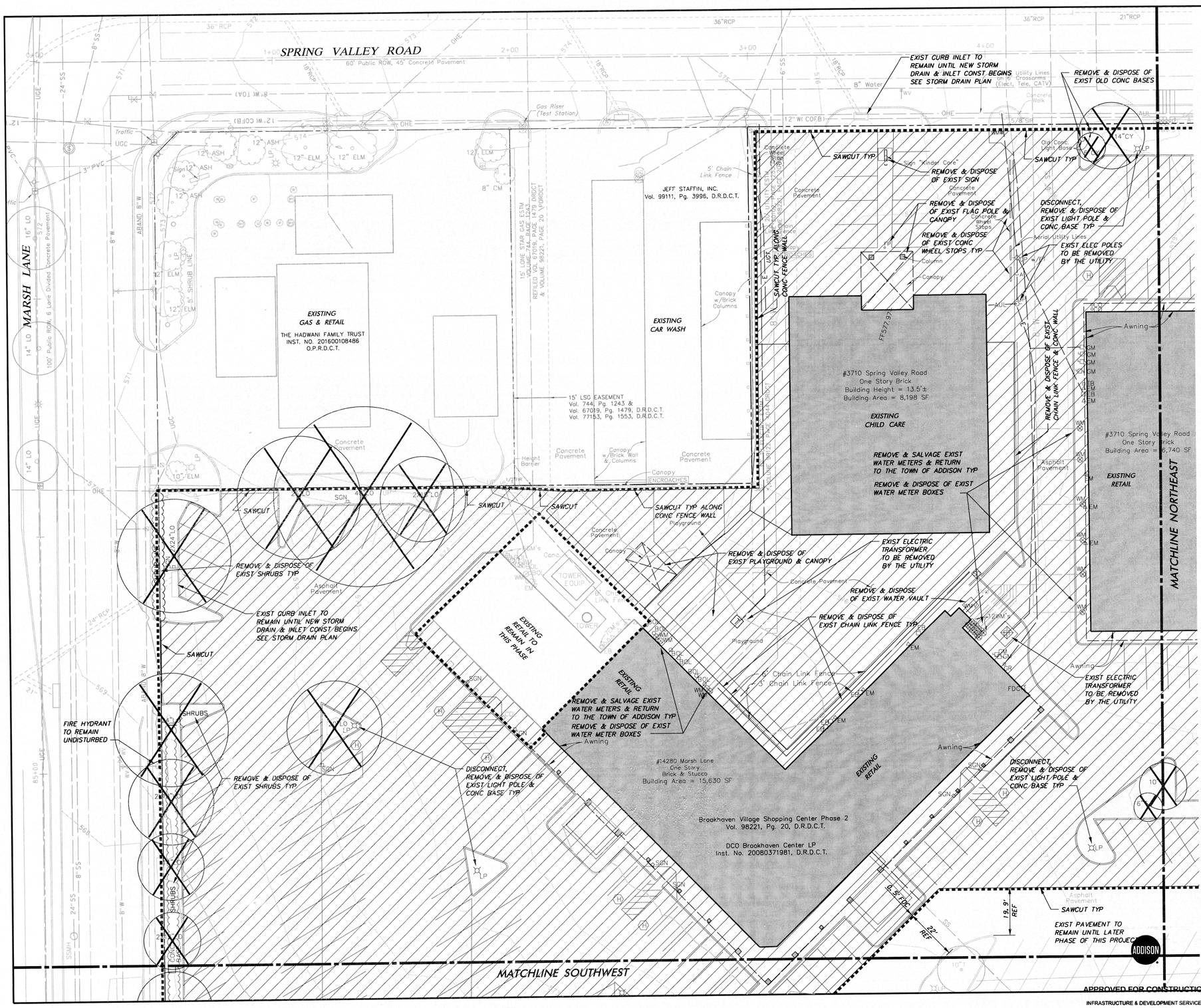
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

DEMOLITION PLAN - PHASE 1
NORTHEAST

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C1.03

BROOKHAVEN VILLAGE SHOPPING CENTER – PROJECT NO. 5134-01

TOWN PROJECT # 17-06



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LEGEND

LIMITS OF DISTURBANCE

EXISTING BUILDING TO BE REMOVED

REMOVE & DISPOSE OF EXISTING PAVEMENT & CURB

REMOVE & DISPOSE OF EXISTING TREE

TREE PROTECTION FENCE

NORTH

0 10 20 30 40
GRAPHIC SCALE IN FEET
SCALE: 1"=20'

STATE OF TEXAS
ROBERT BUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
12/15/17

NO.	REVISION	BY	DATE

icon Consulting Engineers, Inc. 2840 W. Southlake Blvd., Suite 110
Civil Engineers - Designers - Planners Southlake, Tx 76092 (817) 552-6210
Engineering Firm Registration Number F-9007

BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

DEMOLITION PLAN - PHASE 1
NORTHWEST

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C1.04

TOWN PROJECT # 17-06

BROOKHAVEN VILLAGE SHOPPING CENTER – PROJECT NO. 5134-01

APPROVED FOR CONSTRUCTION
INFRASTRUCTURE & DEVELOPMENT SERVICES
BY:
DATE: 1/30/18

IN APPROVING THESE PLANS, THE TOWN OF ADDISON ASSUMES NO RESPONSIBILITY FOR THEIR ADEQUACY, WHICH REMAINS WITH THE ENGINEER OF RECORD.

16801 WESTGROVE DRIVE, ADDISON, TX 75001 - (972) 450-2871

MATCHLINE NORTHWEST

MATCHLINE SOUTHEAST

MARSH LANE

Sign

REMOVE & DISPOSE OF EXIST SIGN

REMOVE & DISPOSE OF EXIST CURB INLET WITH CONST OF NEW STORM DRAIN

SAWCUT TYP

Concrete Pavement

Asphalt Pavement

REMOVE & DISPOSE OF EXIST CURB INLET WITH CONST OF NEW STORM DRAIN

REMOVE & DISPOSE OF EXIST INLET WITH CONST OF NEW STORM DRAIN

SAWCUT TYP

SAWCUT TYP

DISCONNECT, REMOVE & DISPOSE OF EXIST LIGHT POLE & CONC BASE TYP

REMOVE & DISPOSE OF EXIST 6"SS CLEANOUT

REMOVE & DISPOSE OF EXIST TREES TYP

SAWCUT TYP PER PHASING

EXIST 6"SS TO BE ABANDONED IN PLACE

DISCONNECT, REMOVE & DISPOSE OF EXIST LIGHT POLE & CONC BASE TYP

SAWCUT TYP PER PHASING

Covered Drive Thru

#14250 Marsh Lane
One Story
Wood Frame/Stucco

EXISTING BANK

Lot 1, Block A
Horne Savings/Marsh Lane
Inst. No. 20120073178
D.R.D.C.T.

Concrete Retaining Wall

Conc. Ramp

Ramp

PRIVATE DRIVE

20' Utility Easement
Vol. 98221, Pg. 20, D.R.D.C.T.

7' SOUTHWESTERN BELL CO. ESMT
VOLUME 79106, PAGE 126 DRDCT

4' Drainage Easement
Vol. 86225, Pg. 4769, D.R.D.C.T.

6' Brick Wall
Dumpster Enclosure

EXISTING BUILDING

UGE

8"SS SS-B

8"W W-G

8"W W-F

8"SS SS-A

12"W W-E

ABAND 8"W

24"SS

8"SS

6"SS

SSMH

SD

SB

SGN

LP

LPC

ICV

BOL

18"T

36"RCP

24" SD

18"RCP

30"RCP

SHRUBS

ADDISON

APPROVED FOR CONSTRUCTION
INFRASTRUCTURE & DEVELOPMENT SERVICES
BY:
DATE: 1/30/19

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SCALE: 1"=20'

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62654
LICENSED
PROFESSIONAL ENGINEER
12/15/17

NO.	REVISION	BY	DATE

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
Engineering Firm Registration Number F-9007
2840 W. Southlake Blvd., Suite 110
Southlake, Tx 76092 (817) 552-6210

BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

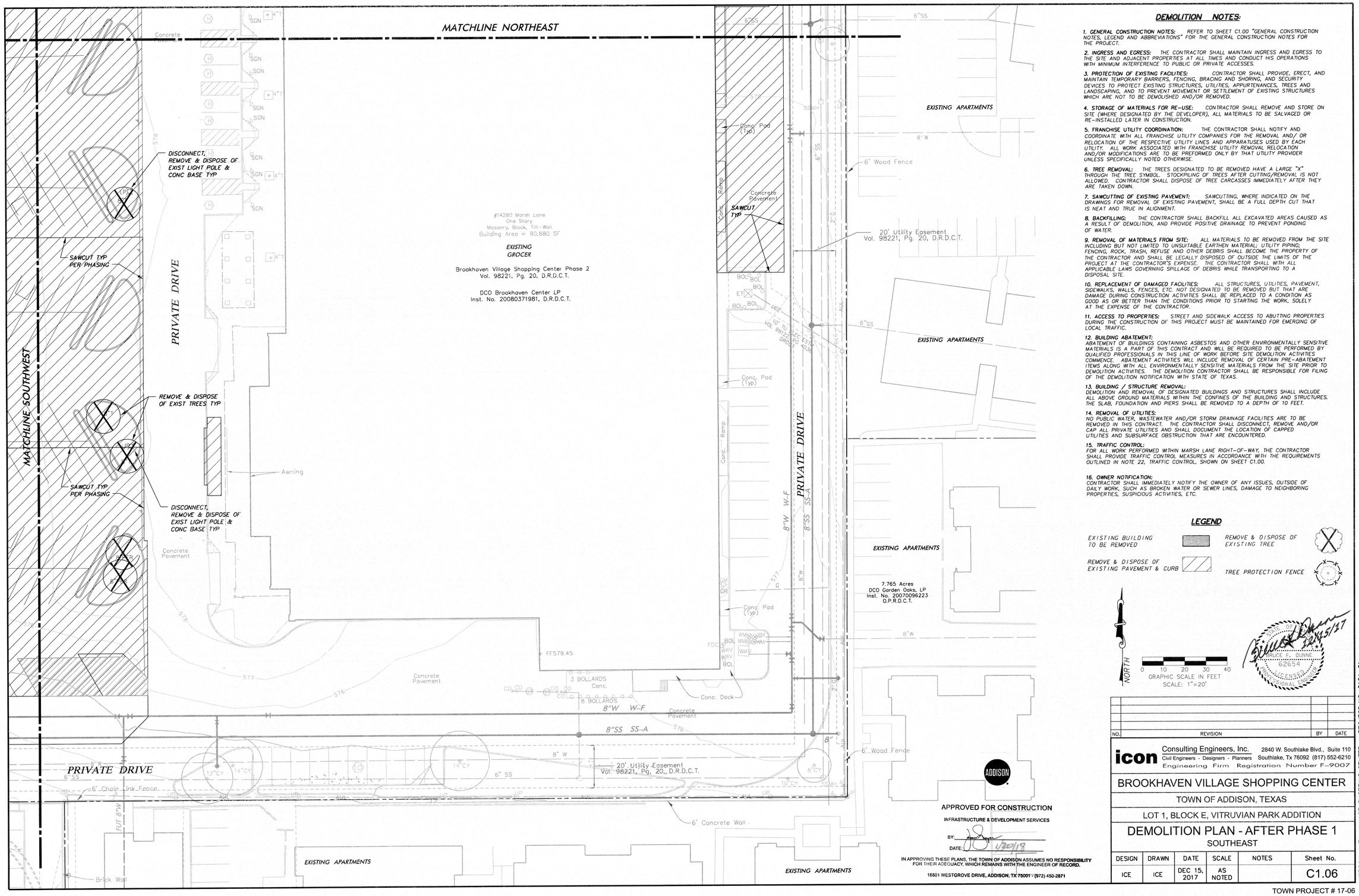
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

DEMOLITION PLAN - AFTER PHASE 1
SOUTHWEST

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C1.05

TOWN PROJECT # 17-06

BROOKHAVEN VILLAGE SHOPPING CENTER - PROJECT NO. 5134-01



DEMOLITION NOTES:

1. **GENERAL CONSTRUCTION NOTES:** REFER TO SHEET C1.00 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THE PROJECT.

2. **INGRESS AND EGRESS:** THE CONTRACTOR SHALL MAINTAIN INGRESS AND EGRESS TO THE SITE AND ADJACENT PROPERTIES AT ALL TIMES AND CONDUCT HIS OPERATIONS WITH MINIMUM INTERFERENCE TO PUBLIC OR PRIVATE ACCESSES.

3. **PROTECTION OF EXISTING FACILITIES:** CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN TEMPORARY BARRIERS, FENCING, BRACING AND SHORING, AND SECURITY DEVICES TO PROTECT EXISTING STRUCTURES, UTILITIES, APPURTENANCES, TREES AND LANDSCAPING, AND TO PREVENT MOVEMENT OR SETTLEMENT OF EXISTING STRUCTURES WHICH ARE NOT TO BE DEMOLISHED AND/OR REMOVED.

4. **STORAGE OF MATERIALS FOR RE-USE:** CONTRACTOR SHALL REMOVE AND STORE ON SITE (WHERE DESIGNATED BY THE DEVELOPER), ALL MATERIALS TO BE SALVAGED OR RE-INSTALLED LATER IN CONSTRUCTION.

5. **FRANCHISE UTILITY COORDINATION:** THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ALL FRANCHISE UTILITY COMPANIES FOR THE REMOVAL AND/ OR RELOCATION OF THE RESPECTIVE UTILITY LINES AND APPARATUSES USED BY EACH UTILITY. ALL WORK ASSOCIATED WITH FRANCHISE UTILITY REMOVAL RELOCATION AND/OR MODIFICATIONS ARE TO BE PREFORMED ONLY BY THAT UTILITY PROVIDER UNLESS SPECIFICALLY NOTED OTHERWISE.

6. **TREE REMOVAL:** THE TREES DESIGNATED TO BE REMOVED HAVE A LARGE "X" THROUGH THE TREE SYMBOL. STOCKPILING OF TREES AFTER CUTTING/REMOVAL IS NOT ALLOWED. CONTRACTOR SHALL DISPOSE OF TREE CARCASSES IMMEDIATELY AFTER THEY ARE TAKEN DOWN.

7. **SAWCUTTING OF EXISTING PAVEMENT:** SAWCUTTING, WHERE INDICATED ON THE DRAWINGS FOR REMOVAL OF EXISTING PAVEMENT, SHALL BE A FULL DEPTH CUT THAT IS NEAT AND TRUE IN ALIGNMENT.

8. **BACKFILLING:** THE CONTRACTOR SHALL BACKFILL ALL EXCAVATED AREAS CAUSED AS A RESULT OF DEMOLITION, AND PROVIDE POSITIVE DRAINAGE TO PREVENT PONDING OF WATER.

9. **REMOVAL OF MATERIALS FROM SITE:** ALL MATERIALS TO BE REMOVED FROM THE SITE INCLUDING BUT NOT LIMITED TO UNSUITABLE EARTHEN MATERIAL; UTILITY PIPING; FENCING, ROCK, TRASH, REFUSE AND OTHER DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF OUTSIDE THE LIMITS OF THE PROJECT AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL WITH ALL APPLICABLE LAWS GOVERNING SPILLAGE OF DEBRIS WHILE TRANSPORTING TO A DISPOSAL SITE.

10. **REPLACEMENT OF DAMAGED FACILITIES:** ALL STRUCTURES, UTILITIES, PAVEMENT, SIDEWALKS, WALLS, FENCES, ETC. NOT DESIGNATED TO BE REMOVED BUT THAT ARE DAMAGE 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.

11. **ACCESS TO PROPERTIES:** STREET AND SIDEWALK ACCESS TO ABUTTING PROPERTIES DURING THE CONSTRUCTION OF THIS PROJECT MUST BE MAINTAINED FOR EMERGING OF LOCAL TRAFFIC.

12. **BUILDING ABATEMENT:** ABATEMENT OF BUILDINGS CONTAINING ASBESTOS AND OTHER ENVIRONMENTALLY SENSITIVE MATERIALS IS A PART OF THIS CONTRACT AND WILL BE REQUIRED TO BE PERFORMED BY QUALIFIED PROFESSIONALS IN THIS LINE OF WORK BEFORE SITE DEMOLITION ACTIVITIES COMMENCE. ABATEMENT ACTIVITIES WILL INCLUDE REMOVAL OF CERTAIN PRE-ABATEMENT ITEMS ALONG WITH ALL ENVIRONMENTALLY SENSITIVE MATERIALS FROM THE SITE PRIOR TO DEMOLITION ACTIVITIES. THE DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE FOR FILING OF THE DEMOLITION NOTIFICATION WITH STATE OF TEXAS.

13. **BUILDING / STRUCTURE REMOVAL:** DEMOLITION AND REMOVAL OF DESIGNATED BUILDINGS AND STRUCTURES SHALL INCLUDE ALL ABOVE GROUND MATERIALS WITHIN THE CONFINES OF THE BUILDING AND STRUCTURES. THE SLAB, FOUNDATION AND PIERS SHALL BE REMOVED TO A DEPTH OF 10 FEET.

14. **REMOVAL OF UTILITIES:** NO PUBLIC WATER, WASTEWATER AND/OR STORM DRAINAGE FACILITIES ARE TO BE REMOVED IN THIS CONTRACT. THE CONTRACTOR SHALL DISCONNECT, REMOVE AND/OR CAP ALL PRIVATE UTILITIES AND SHALL DOCUMENT THE LOCATION OF CAPPED UTILITIES AND SUBSURFACE OBSTRUCTION THAT ARE ENCOUNTERED.

15. **TRAFFIC CONTROL:** FOR ALL WORK PERFORMED WITHIN MARSH LANE RIGHT-OF-WAY, THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH THE REQUIREMENTS OUTLINED IN NOTE 22, TRAFFIC CONTROL, SHOWN ON SHEET C1.00.

16. **OWNER NOTIFICATION:** CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF ANY ISSUES, OUTSIDE OF DAILY WORK, SUCH AS BROKEN WATER OR SEWER LINES, DAMAGE TO NEIGHBORING PROPERTIES, SUSPICIOUS ACTIVITIES, ETC.

LEGEND

EXISTING BUILDING TO BE REMOVED

REMOVE & DISPOSE OF EXISTING PAVEMENT & CURB

REMOVE & DISPOSE OF EXISTING TREE

TREE PROTECTION FENCE

NORTH

0 10 20 30 40
GRAPHIC SCALE IN FEET
SCALE: 1"=20'

BRUCE F. BUNNE 62654 LICENSED PROFESSIONAL ENGINEER 12/15/17

NO.	REVISION	BY	DATE

APPROVED FOR CONSTRUCTION
INFRASTRUCTURE & DEVELOPMENT SERVICES
BY:
DATE: 1/30/19

IN APPROVING THESE PLANS, THE TOWN OF ADDISON ASSUMES NO RESPONSIBILITY FOR THEIR ADEQUACY, WHICH REMAINS WITH THE ENGINEER OF RECORD.

16801 WESTGROVE DRIVE, ADDISON, TX 75001 - (972) 450-2871

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BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

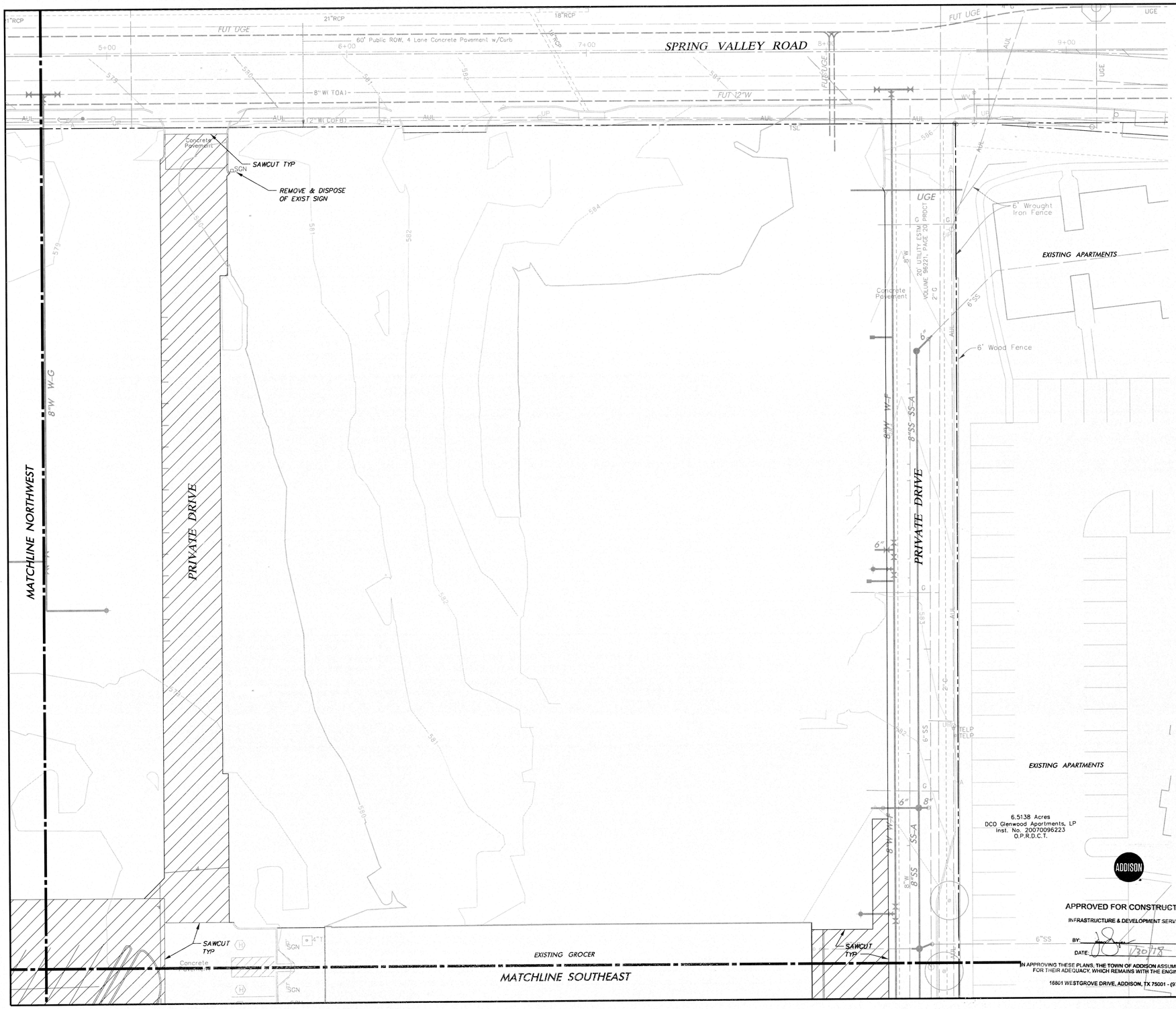
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

DEMOLITION PLAN - AFTER PHASE 1
SOUTHEAST

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C1.06

BROOKHAVEN VILLAGE SHOPPING CENTER - PROJECT NO. 5134-01

TOWN PROJECT # 17-06



DEMOLITION NOTES:

1. **GENERAL CONSTRUCTION NOTES:** REFER TO SHEET C1.00 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THE PROJECT.

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REMOVE & DISPOSE OF EXISTING TREE

TREE PROTECTION FENCE

NORTH

0 10 20 30 40
GRAPHIC SCALE IN FEET
SCALE: 1"=20'

STATE OF TEXAS
BRUCE F. DUNNE
82658
LICENSED
PROFESSIONAL ENGINEER
12/15/17

APPROVED FOR CONSTRUCTION
INFRASTRUCTURE & DEVELOPMENT SERVICES
BY:
DATE: 12/20/17
IN APPROVING THESE PLANS, THE TOWN OF ADDISON ASSUMES NO RESPONSIBILITY FOR THEIR ADEQUACY, WHICH REMAINS WITH THE ENGINEER OF RECORD.
16801 WESTGROVE DRIVE, ADDISON, TX 75001 - (972) 450-2871

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BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

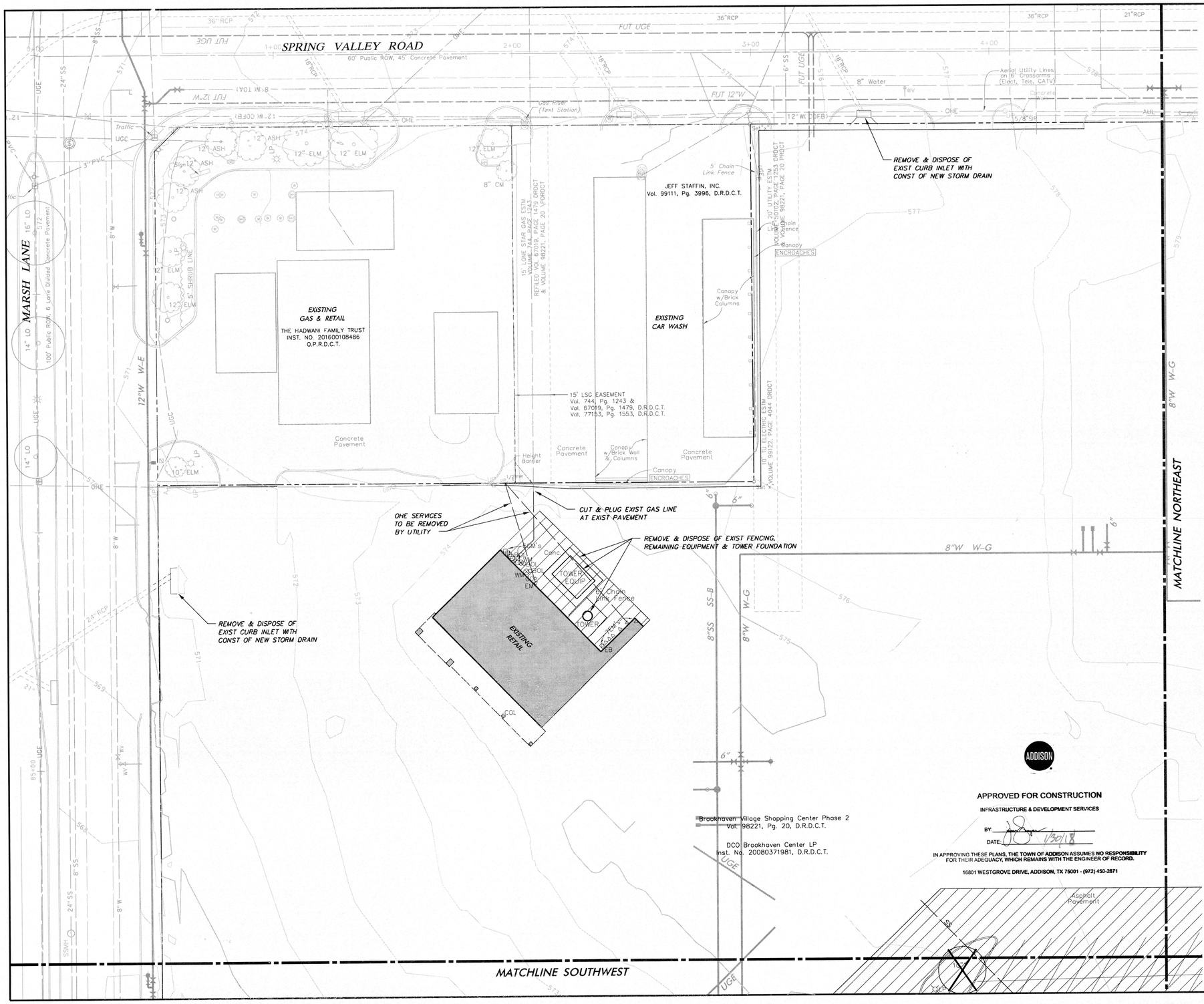
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

DEMOLITION PLAN - AFTER PHASE 1
NORTHEAST

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C1.07

TOWN PROJECT # 17-06

BROOKHAVEN VILLAGE SHOPPING CENTER - PROJECT NO. 5134-01



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LEGEND

EXISTING BUILDING TO BE REMOVED

REMOVE & DISPOSE OF EXISTING PAVEMENT & CURB

REMOVE & DISPOSE OF EXISTING TREE

TREE PROTECTION FENCE

BRUCE F. DUNNE 62654 LICENSED PROFESSIONAL ENGINEER 12/15/17

NO.	REVISION	BY	DATE

icon Consulting Engineers, Inc. 2840 W. Southlake Blvd., Suite 110
Civil Engineers - Designers - Planners Southlake, Tx 76092 (817) 552-6210
Engineering Firm Registration Number F-9007

BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

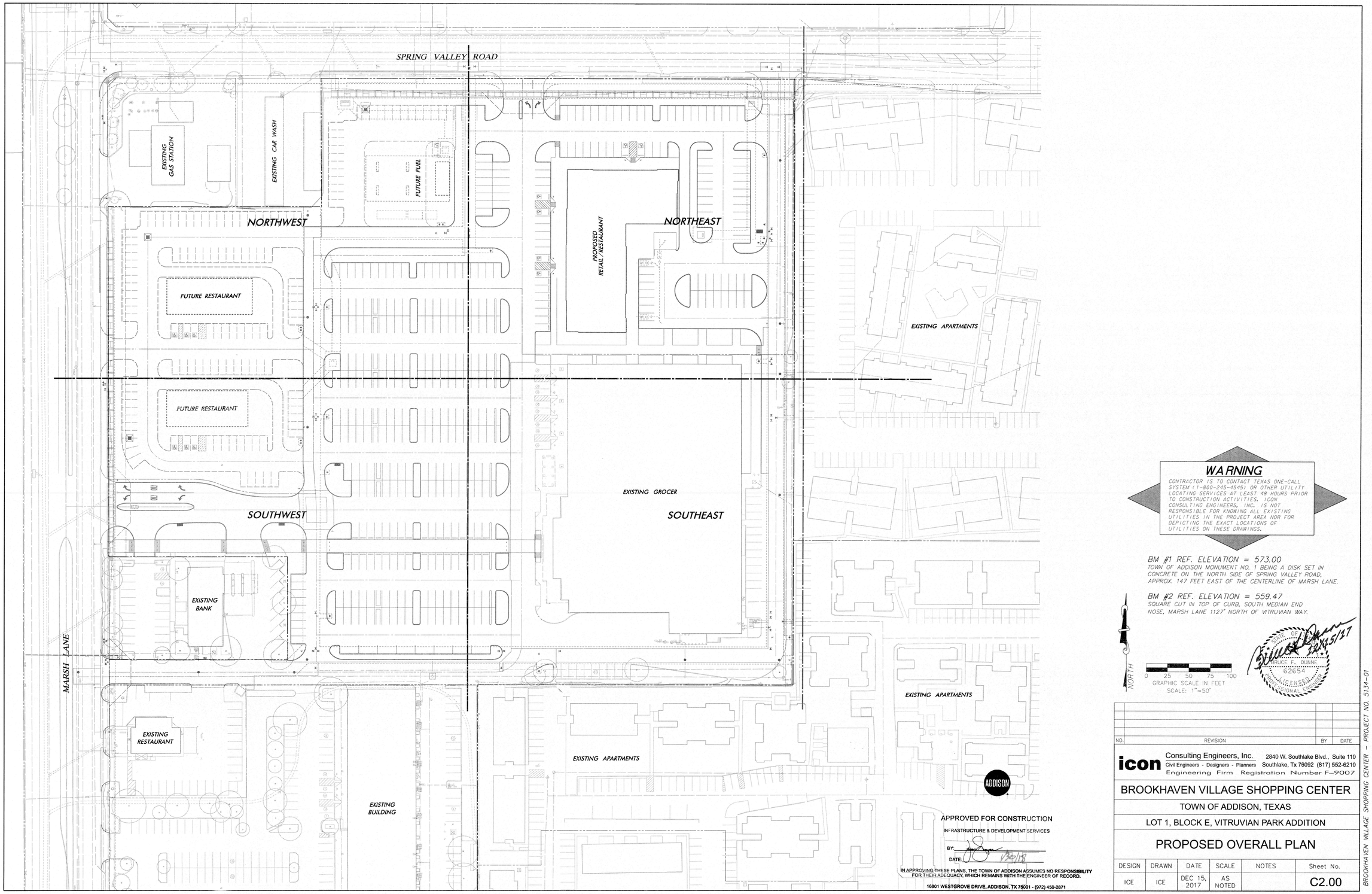
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

DEMOLITION PLAN - AFTER PHASE 1
NORTHWEST

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C1.08

BROOKHAVEN VILLAGE SHOPPING CENTER – PROJECT NO. 5134-01

TOWN PROJECT # 17-06



WARNING

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

BM #1 REF. ELEVATION = 573.00
TOWN OF ADDISON MONUMENT NO. 1 BEING A DISK SET IN CONCRETE ON THE NORTH SIDE OF SPRING VALLEY ROAD, APPROX. 147 FEET EAST OF THE CENTERLINE OF MARSH LANE.

BM #2 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

NORTH

0 25 50 75 100
GRAPHIC SCALE IN FEET
SCALE: 1"=50'

STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
12/15/17

NO.	REVISION	BY	DATE

APPROVED FOR CONSTRUCTION
INFRASTRUCTURE & DEVELOPMENT SERVICES
BY:
DATE: 1/30/18
IN APPROVING THESE PLANS, THE TOWN OF ADDISON ASSUMES NO RESPONSIBILITY FOR THEIR ADEQUACY, WHICH REMAINS WITH THE ENGINEER OF RECORD.
16801 WESTGROVE DRIVE, ADDISON, TX 75001 - (972) 450-2871

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Engineering Firm Registration Number F-9007

BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

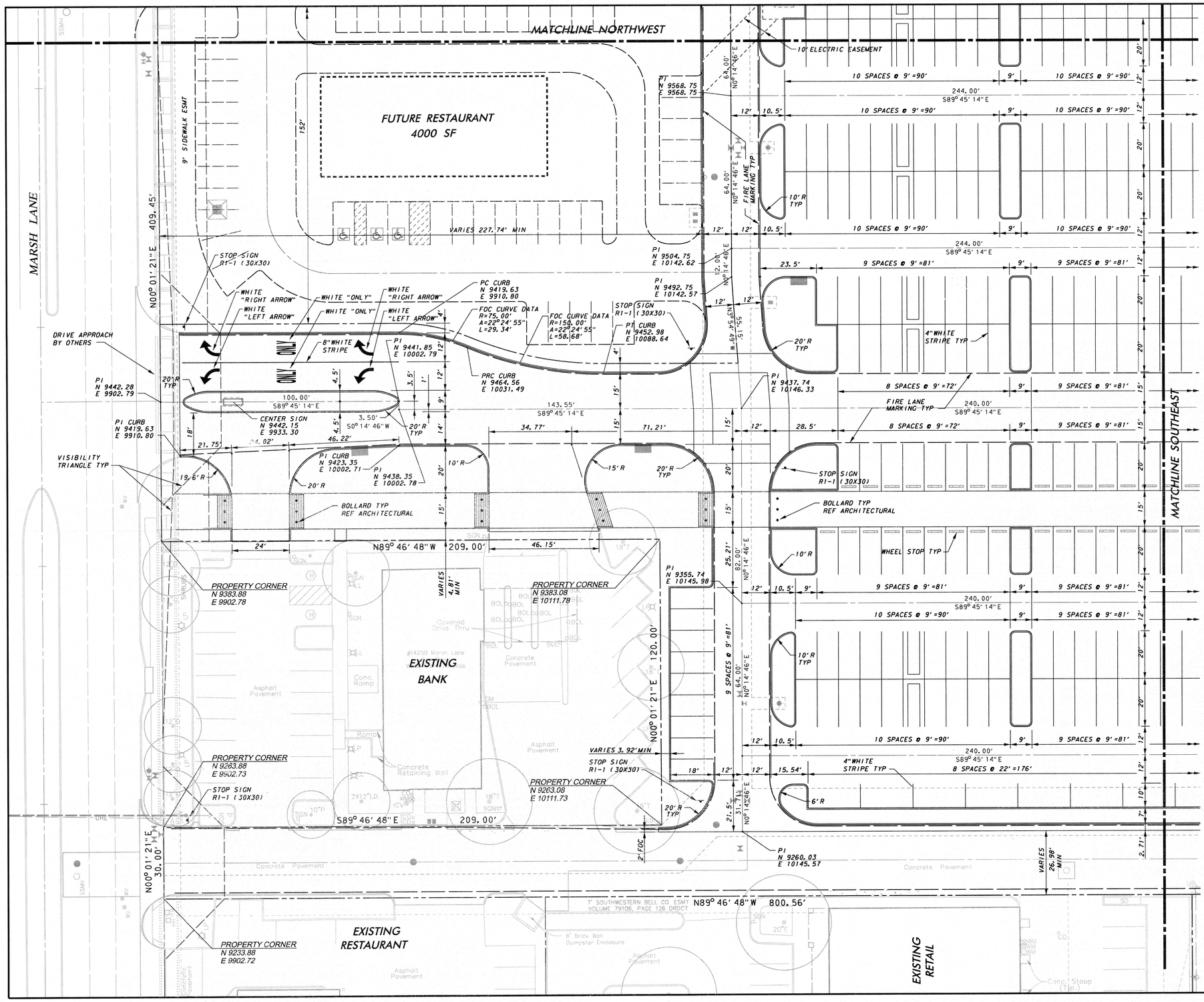
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

PROPOSED OVERALL PLAN

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C2.00

TOWN PROJECT # 17-06

BROOKHAVEN VILLAGE SHOPPING CENTER – PROJECT NO. 5134-01



LAYOUT & DIMENSIONAL CONTROL NOTES

1. **GENERAL CONSTRUCTION NOTES:** REFER TO SHEET C0.01 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THE PROJECT.

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

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

4. **DIMENSIONAL CONTROL:** ALL PAVING DIMENSIONS AND COORDINATES SHOWN ARE TO FACE OF CURB WHERE APPLICABLE. ALL DIMENSIONS SHOWN AT PI CURB POINTS ARE AT THE INTERSECTION OF THE FACE OF CURB.

5. **CURB RADII:** ALL CURB RADII SHALL BE 2' TO FACE OF CURB UNLESS OTHERWISE NOTED.

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

7. **FIRE LANE MARKING:** FIRE LANE MARKING SHALL CONSIST OF 6" SOLID RED STRIPE WITH "FIRE LANE - NO PARKING" STENCILED IN FOUR INCH HIGH WHITE LETTERS AT 25' INTERVALS. MARKING TO BE PROVIDED PER LOCAL AUTHORITY REQUIREMENTS.

ADDISON

APPROVED FOR CONSTRUCTION

INFRASTRUCTURE & DEVELOPMENT SERVICES

BY: _____

DATE: 1/20/19

IN APPROVING THESE PLANS, THE TOWN OF ADDISON ASSUMES NO RESPONSIBILITY FOR THEIR ADEQUACY, WHICH REMAINS WITH THE ENGINEER OF RECORD.

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BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

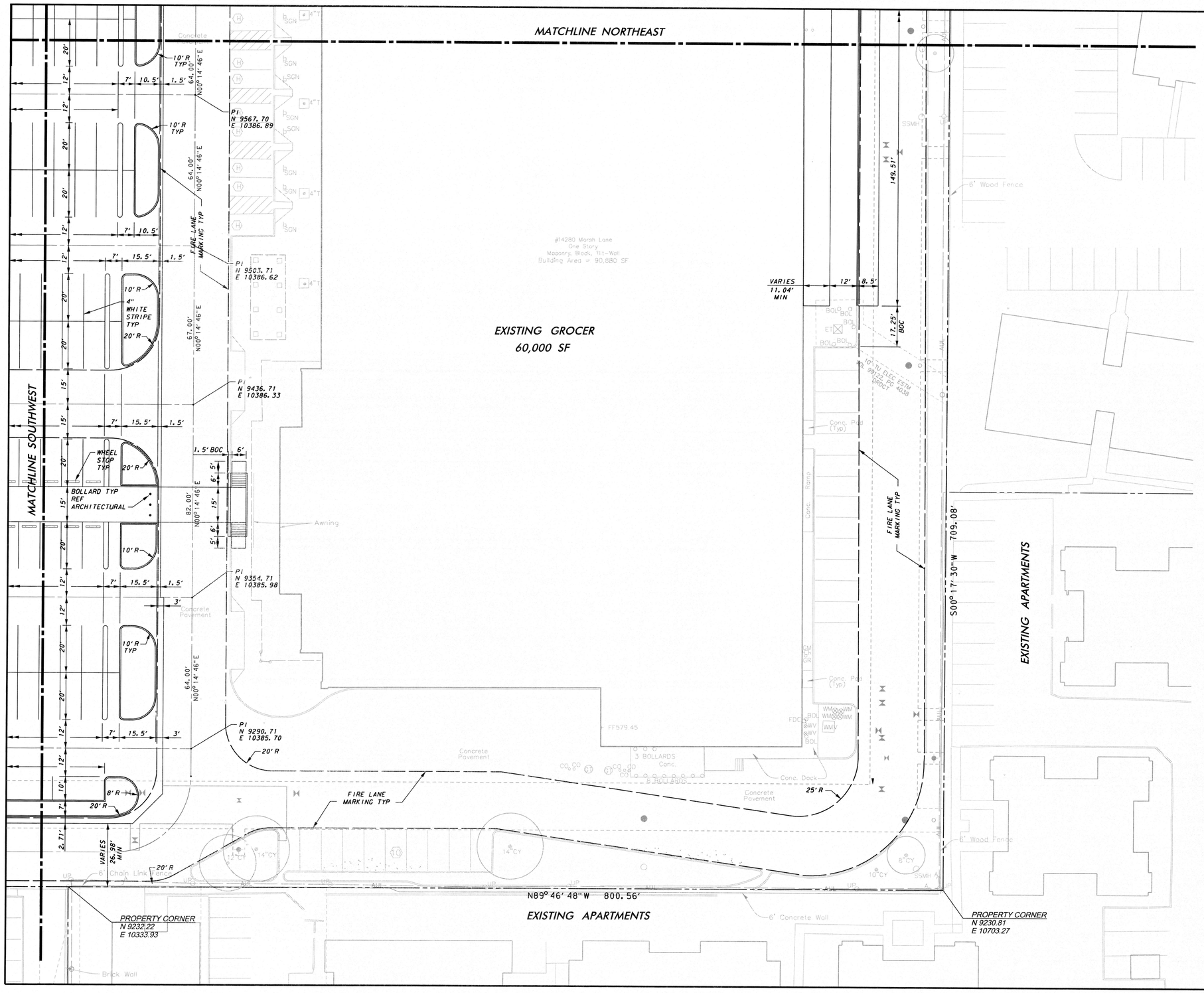
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

LAYOUT & DIMENSIONAL CONTROL PLAN
SOUTHWEST

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C2.01

TOWN PROJECT # 17-06

BROOKHAVEN VILLAGE SHOPPING CENTER – PROJECT NO. 5134-01



LAYOUT & DIMENSIONAL CONTROL NOTES

1. **GENERAL CONSTRUCTION NOTES:** REFER TO SHEET C0.01 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THE PROJECT.

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

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

4. **DIMENSIONAL CONTROL:** ALL PAVING DIMENSIONS AND COORDINATES SHOWN ARE TO FACE OF CURB WHERE APPLICABLE. ALL DIMENSIONS SHOWN AT PI CURB POINTS ARE AT THE INTERSECTION OF THE FACE OF CURB.

5. **CURB RADII:** ALL CURB RADII SHALL BE 2' TO FACE OF CURB UNLESS OTHERWISE NOTED.

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

7. **FIRE LANE MARKING:** FIRE LANE MARKING SHALL CONSIST OF 6" SOLID RED STRIPE WITH "FIRE LANE - NO PARKING" STENCILED IN FOUR INCH HIGH WHITE LETTERS AT 25' INTERVALS. MARKING TO BE PROVIDED PER LOCAL AUTHORITY REQUIREMENTS.

ADDISON

APPROVED FOR CONSTRUCTION

INFRASTRUCTURE & DEVELOPMENT SERVICES

BY: _____

DATE: 12/5/17

IN APPROVING THESE PLANS, THE TOWN OF ADDISON ASSUMES NO RESPONSIBILITY FOR THEIR ADEQUACY, WHICH REMAINS WITH THE ENGINEER OF RECORD.

16801 WESTGROVE DRIVE, ADDISON, TX 75001 - (972) 450-2871

NORTH

0 10 20 30 40

GRAPHIC SCALE IN FEET

SCALE: 1"=20'

STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
12/5/17

NO.	REVISION	BY	DATE

icon Consulting Engineers, Inc. 2840 W. Southlake Blvd., Suite 110
Civil Engineers - Designers - Planners Southlake, Tx 76092 (817) 552-6210
Engineering Firm Registration Number F-9007

BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

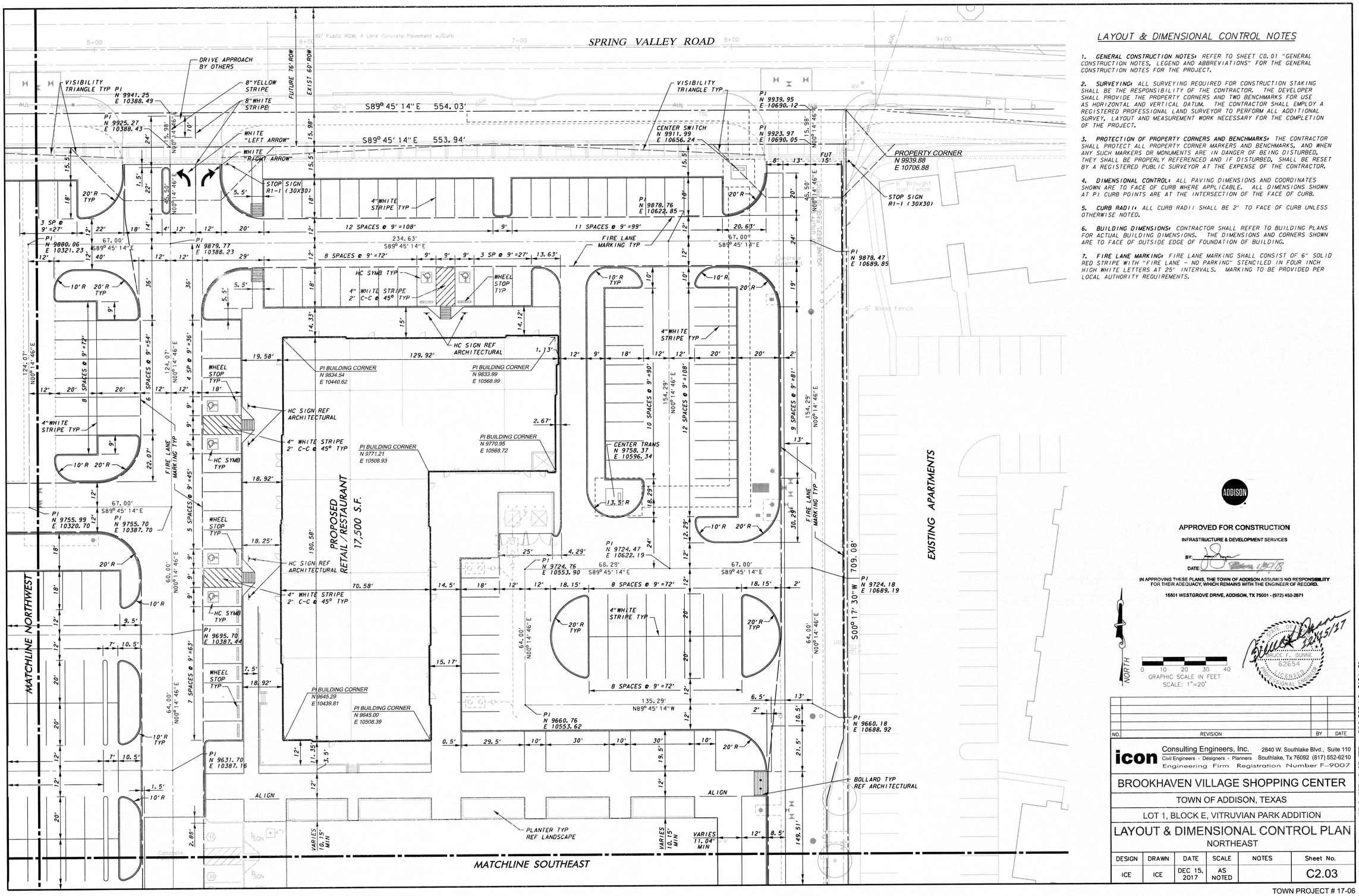
LAYOUT & DIMENSIONAL CONTROL PLAN

SOUTHEAST

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C2.02

BROOKHAVEN VILLAGE SHOPPING CENTER – PROJECT NO. 5134-01

TOWN PROJECT # 17-06



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ADDISON

APPROVED FOR CONSTRUCTION

INFRASTRUCTURE & DEVELOPMENT SERVICES

BY: _____

DATE: 12/7/18

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16801 WESTGROVE DRIVE, ADDISON, TX 75001 - (972) 450-2871

NORTH

0 10 20 30 40

GRAPHIC SCALE IN FEET

SCALE: 1"=20'

STATE OF TEXAS BRUCE T. DUNNE 62654 LICENSED PROFESSIONAL ENGINEER 12/5/17

NO.	REVISION	BY	DATE

icon Consulting Engineers, Inc. 2840 W. Southlake Blvd., Suite 110
Civil Engineers - Designers - Planners Southlake, Tx 76092 (817) 552-6210
Engineering Firm Registration Number F-9007

BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

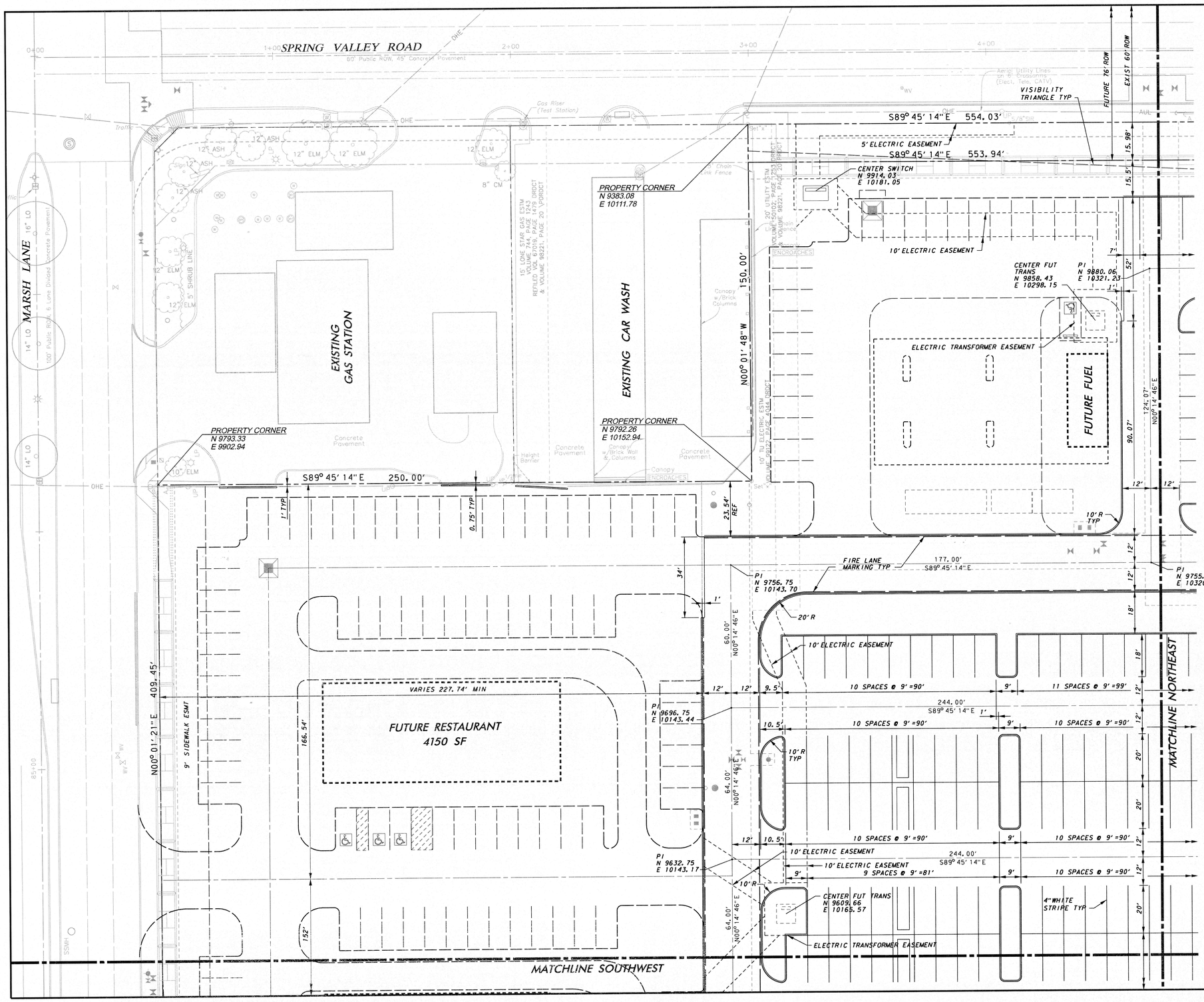
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

LAYOUT & DIMENSIONAL CONTROL PLAN
NORTHEAST

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C2.03

TOWN PROJECT # 17-06

BROOKHAVEN VILLAGE SHOPPING CENTER - PROJECT NO. 5134-01



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ADDISON

APPROVED FOR CONSTRUCTION

INFRASTRUCTURE & DEVELOPMENT SERVICES

BY: _____

DATE: 4/30/18

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16801 WESTGROVE DRIVE, ADDISON, TX 75001 - (972) 450-2871

NORTH

0 10 20 30 40

GRAPHIC SCALE IN FEET

SCALE: 1"=20'

STATE OF TEXAS — JAMES E. DUNNE — 62654 — LICENSED PROFESSIONAL ENGINEER — 12/15/17

NO.	REVISION	BY	DATE

icon Consulting Engineers, Inc. — Civil Engineers - Designers - Planners — Engineering Firm Registration Number F-9007
2840 W. Southlake Blvd., Suite 110, Southlake, Tx 76092 (817) 552-6210

BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

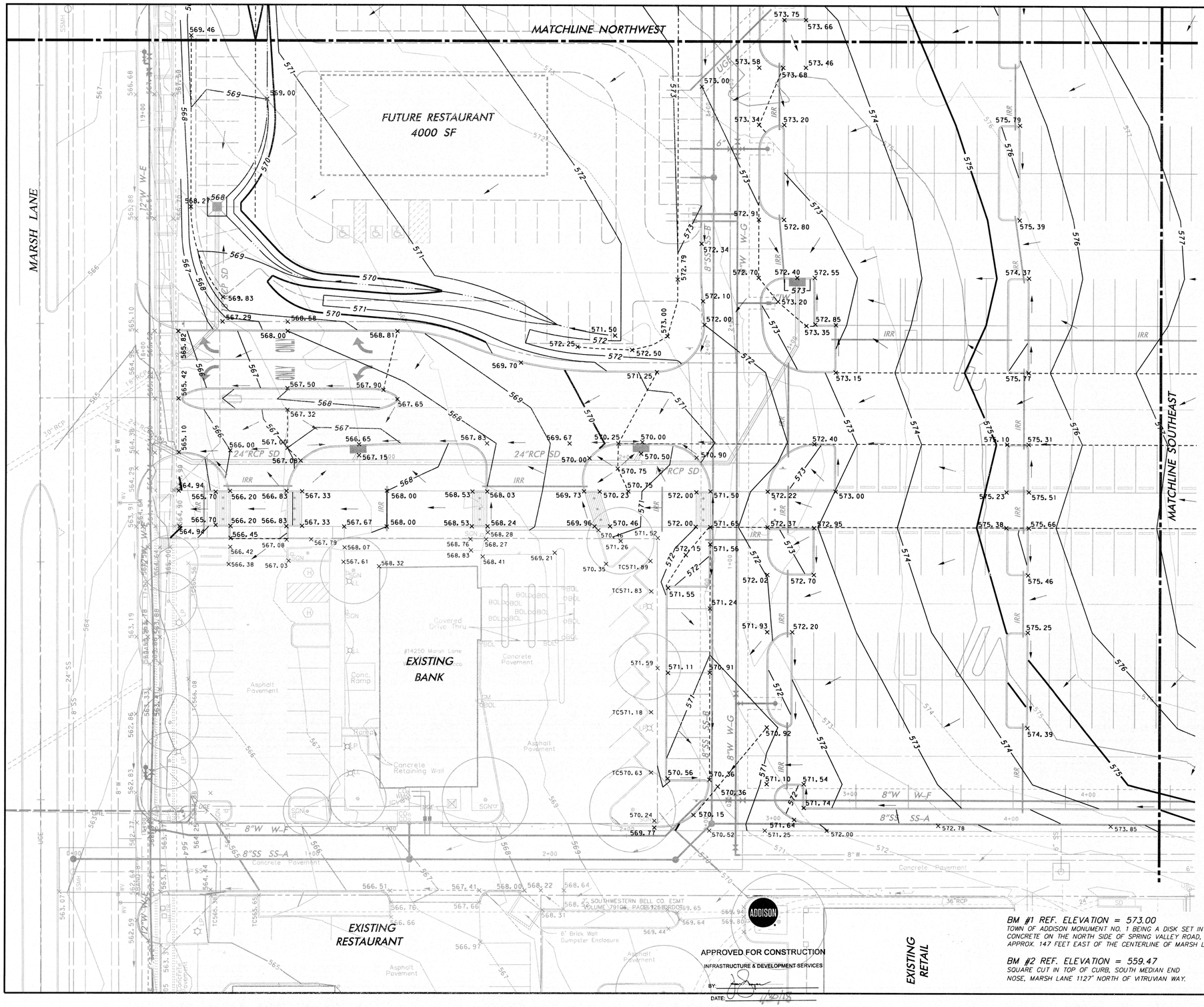
LAYOUT & DIMENSIONAL CONTROL PLAN

NORTHWEST

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C2.04

TOWN PROJECT # 17-06

BROOKHAVEN VILLAGE SHOPPING CENTER - PROJECT NO. 5134-01



GRADING NOTES

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3. **TESTING:** ALL EARTHWORK OPERATIONS SHALL BE OBSERVED AND TESTED ON A CONTINUING BASIS BY THE GEOTECHNICAL ENGINEER FOR CONFORMANCE WITH THE REQUIREMENTS SET FORTH IN THE GEOTECHNICAL STUDY, AND SUPPLEMENTAL MATERIAL, PREPARED BY _____, _____ DATED _____, 201_ WHICH IS MADE A PART OF THESE CONSTRUCTION DOCUMENTS.

4. **STRIPPING AND DEBRIS REMOVAL:** THE BUILDING PAD SITES, AREAS TO BE PAVED, AND ALL AREAS THAT ARE TO RECEIVE FILL MATERIAL SHALL BE STRIPPED OF VEGETATION, TREES, ROOTS, STUMPS, DEBRIS, AND OTHER ORGANIC MATERIAL. THE DEPTH OF STRIPPING IS EXTIMATED TO BE ON THE ORDER OF SIX (6) INCHES IN ORDER TO REMOVE THE SURFACE SOIL CONTAINING ORGANIC MATERIAL. THE ACTUAL STRIPPING DEPTH SHALL BE BASED ON FIELD OBSERVATIONS. STRIPPED TOPSOIL SHALL BE STOCKEDPILED N A LOCATION ON-SITE APPROVED BY THE DEVELOPER. ALL TREES, INCLUDING STUMPS AND ROOT SYSTEMS, VEGETATION, DEBRIS AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OFF-SITE. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS GOVERNING SPILLAGE OF DEBRIS WHILL TRANSPORTING TO A DISPOSAL SITE. ALL COSTS ASSOCIATED WITH DISPOSAL OF MATERIAL SHALL BE INCLUDED IN THE CONTRACT AMOUNT.

5. **BURNING:** BURNING SHALL NOT BE PERMITTED ON THE PROJECT SITE UNLESS APPROVED IN WRITING BY THE GOVERNING AUTHORITIES AND THE DEVELOPER.

6. **PROOF ROLLING:** UPON COMPLETION OF STRIPPING OPERATIONS, AND PRIOR TO PLACEMENT OF ANY FILL MATERIALS, THE STRIPPED AREAS SHOULD BE OBSERVED TO DETERMINE IF ADDITIONAL EXCAVATION IS REQUIRED TO REMOVE WEAK OR OTHERWISE OBJECTIONABLE MATERIALS THAT WOULD ADVERSELY AFFECT THE FILL PLACEMENT. THE SUBGRADE SHOULD BE FIRM AND ABLE TO SUPPORT CONSTRUCTION EQUIPMENT WITHOUT DISPLACEMENT. SOFT OR YEILDING SUBGRADE SHOULD BE CORRECTED AND MADE STABLE BEFORE CONSTRUCTION PROCEEDS. PROOF ROLLING SHOULD BE PERFORMED USING A HEAVY PNEUMATIC TIRE ROLLER, LOADED DUMP TRUCK, OR SIMILAR PIECE OF EQUIPMENT WEIGHING 25 TONS THE PROOF ROLLING OPERATIONS SHOULD BE OBSERVED BY THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE.

7. **UNSTABLE MATERIAL:** WHEN CLAY OR OTHER UNSTABLE MATERIAL IS PRESENT IN AREAS OF PROPOSED BUILDING PADS OR PAVED AREAS, THE GEOTECHNICAL ENGINEER SHALL OBSERVE THE STABILITY OF ANY EXISTING CLAY OR WEATHERED MATERIAL THAT IS PRESENT IN THE SUBASE AND SHALL DETERMINE WHETHER ADDITIONAL EXCAVATION OF THESE MATERIALS WILL BE REQUIRED. IF THIS MATERIAL IS DEEMED SUITABLE FOR SUBBASE MATERIAL, THE SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF (6) INCHES, ITS MOISTURE CONTENT ADJUSTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER, AND THEN RE-COMPACTED TO ONE HUNDRED (100) PERCENT OF THE OPTIMUM DENSITY DETERMINED BY THE STANDARD TEST, ASTM D - 698 PRIOR TO PLACEMENT OF FILL MATERIALS.

8. **CONTROLLED FILL:** ALL SOILS USED FOR CONTROLLED FILL SHOULD BE FREE OF ROOTS, VEGETATION, AND OTHER DELETERIOUS OR UNDESIRABLE MATTER, ROCKS LESS THAN 4 INCHES IN LARGEST DIMENSION WITHIN 15" OF PROPOSED SUBGRADE ELEVATION, LESS THAN 6 INCHES IN SIZE FROM 15" TO 36" OF PROPOSED SUBGRADE ELEVATION, LESS THAN 12 INCHES IN SIZE FROM 36" TO 72" OF PROPOSED SUBGRADE ELEVATION, AND LESS THAN 18 INCHES IN LARGEST DIMENSION FOR FILLS IN EXCESS OF 72" FROM SUBGRADE ELEVATION, WILL BE ALLOWED AS ACCEPTABLE FILL MATERIAL. ROCK FILLS SHOULD BE SUPPLEMENTED WITH A SUFFICIENT AMOUNT OF FINE MATERIAL TO PREVENT VOIDS. SOILS IMPORTED FROM OFF-SITE FOR USE AS FILL SHOULD BE APPROVED BY THE GEOTECHNICAL ENGINEER. BY THE GEOTECHNICAL ENGINEER. THE FILL MATERIAL SHOULD BE PLACED IN LEVEL, UNIFORM LIFTS, WITH EACH LIFT COMPACTED TO THE MINIMUM DRY DENSITY WITHIN THE COMPACTION SOIL MOISTURE RANGES RECOMMENDED. THE LOOSE LIFT THICKNESS SHOULD NOT EXCEED 10 INCHES. EACH LAYER SHOULD BE PROPERLY, PLACED, MIXED, SPREAD AND COMPACTED TO BETWEEN 95 AND 100 PERCENT OF STANDARD PROCTOR DENSITY AS DETERMINED BY ASTM D 698.

9. **PROPOSED GRADES:** 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.

10. **MASS GRADE ELEVATIONS:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR MASS GRADING OF THE SITE TO THE FOLLOWING ELEVATIONS:

- 12" BELOW FINISHED GRADE WITHIN THE BUILDING PAD AREAS.
- 8" BELOW FINISHED GRADE FOR ALL HEAVY DUTY PAVEMENT AREAS.
- 6" BELOW FINISHED GRADE FOR STANDARD DUTY PAVEMENT AREAS.
- 4" BELOW FINISHED GRADE FOR ALL SIDEWALK PAVEMENT AREAS.
- 6" BELOW FINISHED GRADE FOR ALL LANDSCAPE AREAS.

LANDSCAPE AREAS ARE TO BE GRADED WITHIN +/- 0.30 FEET OF THE FINISHED GRADE.

11. **BUILDING ENTRANCE GRADES:** REFER TO THE BUILDING PLANS FOR DETAILED SPOT GRADING AT THE BUILDING ENTRANCES AREAS. THE CONTRACTOR SHALL COMPLY WITH ALL ADA AND TEXAS ACCESSIBILITY STANDARDS FOR REQUIREMENTS REGARDING MAXIMUM SLOPES FOR HANDICAP PARKING AREAS, SIDEWALKS, ACCESS RAMPS AND ACCESSIBLE ROUTES.

12. **LANDSCAPE AREAS:** 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.

13. **EARTHWORK QUANTITIES:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALCULATING THE EARTHWORK QUANTITIES BASED ON THE EXISTING AND PROPOSED CONTOURS SHOWN ON THESE PLANS. ALL EARTHWORK SHALL BE CONSIDERED UNCLASSIFIED EXCAVATION AND BID ON A LUMP SUM BASIS, UNLESS NOTED OTHERWISE.

14. **LIMITS OF CONSTRUCTION:** NO WORK IS TO BE PERFORMED OUTSIDE OF THE PROPERTY BOUNDARY OR DEFINED LIMITS OF CONSTRUCTION.

BM #1 REF. ELEVATION = 573.00
TOWN OF ADDISON MONUMENT NO. 1 BEING A DISK SET IN CONCRETE ON THE NORTH SIDE OF SPRING VALLEY ROAD, APPROX. 147 FEET EAST OF THE CENTERLINE OF MARSH LANE.

BM #2 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF WITRUVIAN WAY.

ADDISON

APPROVED FOR CONSTRUCTION
INFRASTRUCTURE & DEVELOPMENT SERVICES
BY: _____
DATE: _____

IN APPROVING THESE PLANS, THE TOWN OF ADDISON ASSUMES NO RESPONSIBILITY FOR THEIR ADEQUACY, WHICH REMAINS WITH THE ENGINEER OF RECORD.

16801 WESTGROVE DRIVE, ADDISON, TX 75001 - (972) 450-2871

STATE OF TEXAS
BRUCE F. DUNNE
52654
LICENSED PROFESSIONAL ENGINEER
12/15/17

NO.	REVISION	BY	DATE

icon Consulting Engineers, Inc. 2840 W. Southlake Blvd., Suite 110
Civil Engineers - Designers - Planners Southlake, Tx 76092 (817) 552-6210
Engineering Firm Registration Number F-9007

BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

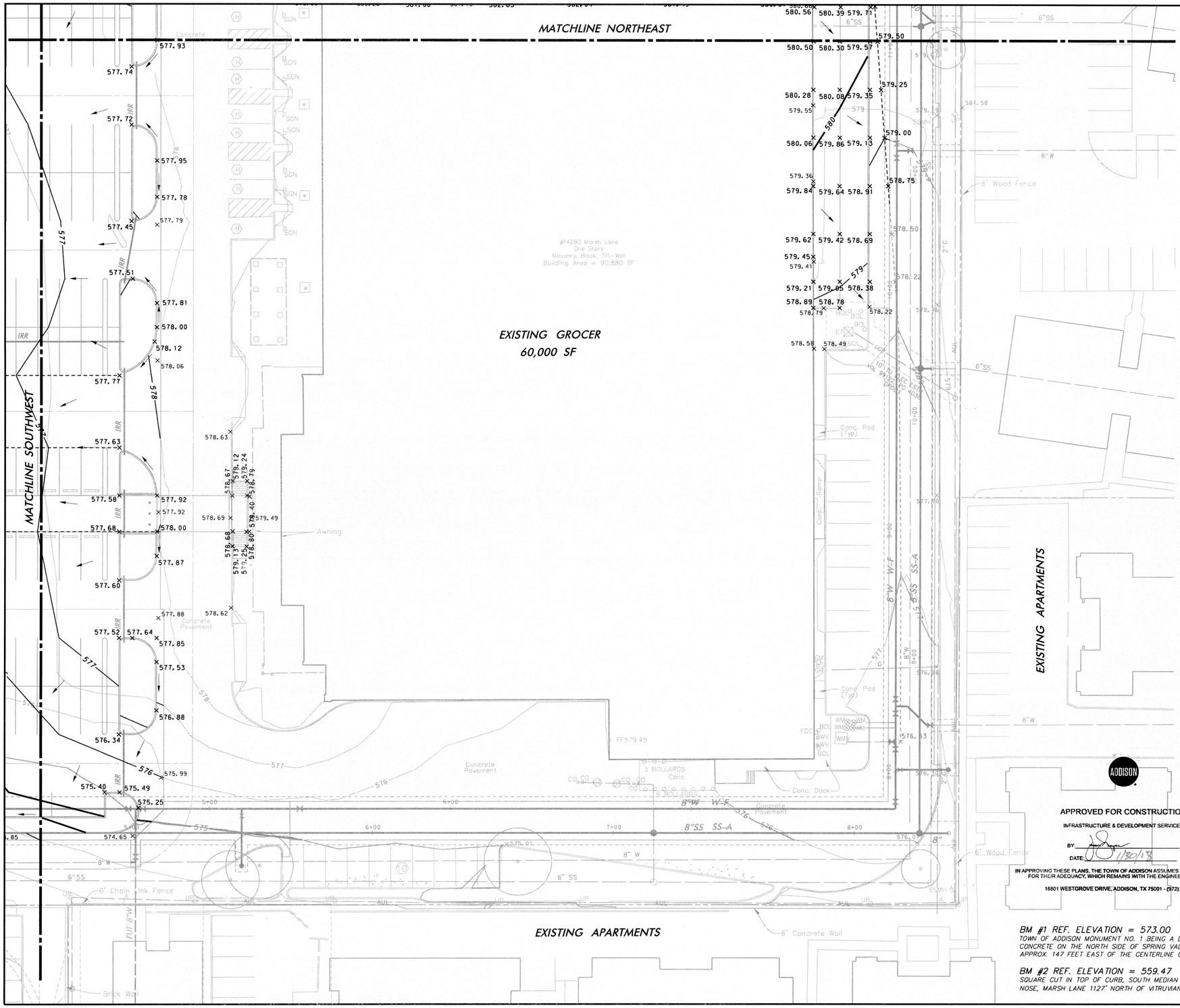
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

GRADING PLAN
SOUTHWEST

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C3.01

BROOKHAVEN VILLAGE SHOPPING CENTER - PROJECT NO. 5134-01

TOWN PROJECT # 17-06



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14. LIMITS OF CONSTRUCTION: NO WORK IS TO BE PERFORMED OUTSIDE OF THE PROPERTY BOUNDARY OR DEFINED LIMITS OF CONSTRUCTION.

NORTH

0 10 20 30 40
GRAPHIC SCALE IN FEET
SCALE: 1"=20'

STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
12/15/17

ADDISON

APPROVED FOR CONSTRUCTION
INFRASTRUCTURE & DEVELOPMENT SERVICES
BY: _____
DATE: 12/30/17
IN APPROVING THESE PLANS, THE TOWN OF ADDISON ASSUMES NO RESPONSIBILITY FOR THEIR ADEQUACY, WHICH REMAINS WITH THE ENGINEER OF RECORD.
16801 WESTGROVE DRIVE, ADDISON, TX 75001 - (972) 450-2871

BM #1 REF. ELEVATION = 573.00
TOWN OF ADDISON MONUMENT NO. 1 BEING A DISK SET IN CONCRETE ON THE NORTH SIDE OF SPRING VALLEY ROAD, APPROX. 147 FEET EAST OF THE CENTERLINE OF MARSH LANE.

BM #2 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

NO.	REVISION	BY	DATE

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
2840 W. Southlake Blvd., Suite 110
Southlake, Tx 76092 (817) 552-6210
Engineering Firm Registration Number F-9007

BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

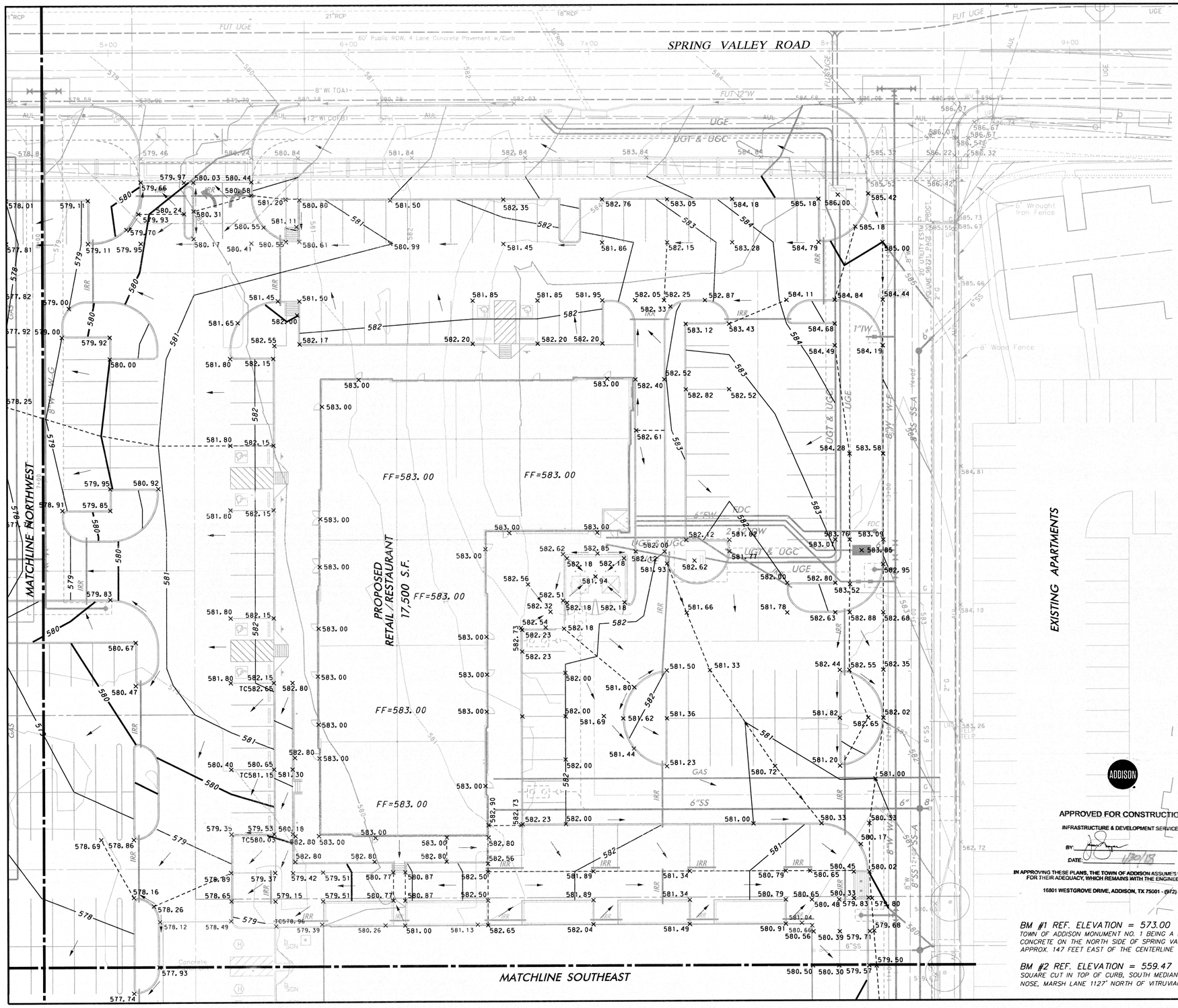
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

GRADING PLAN
SOUTHEAST

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C3.02

TOWN PROJECT # 17-06

BROOKHAVEN VILLAGE SHOPPING CENTER - PROJECT NO. 5134-01



GRADING NOTES

1. GENERAL CONSTRUCTION NOTES: REFER TO SHEET C1.00 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THE PROJECT.

2. UNDISTURBED AREAS: PRIOR TO GRADING, BRUSH REMOVAL, OR SITE CONSTRUCTION, THE CONTRACTOR SHALL MEET WITH THE DEVELOPER AND/OR ENGINEER AT THE SITE TO ASCERTAIN THE AREAS OF THE PROJECT SITE THAT ARE TO BE PROTECTED AND PRESERVED. REFER TO THE "GENERAL TREE PROTETION NOTES" FOR ALL CONSTRUCTION IN THE VICINITY OF EXISTING TREES.

3. TESTING: ALL EARTHWORK OPERATIONS SHALL BE OBSERVED AND TESTED ON A CONTINUING BASIS BY THE GEOTECHNICAL ENGINEER FOR CONFORMANCE WITH THE REQUIREMENTS SET FORTH IN THE GEOTECHNICAL STUDY, AND SUPPLEMENTAL MATERIAL, PREPARED BY _____ _____ DATED _____, 201_ WHICH IS MADE A PART OF THESE CONSTRUCTION DOCUMENTS.

4. STRIPPING AND DEBRIS REMOVAL: THE BUILDING PAD SITES, AREAS TO BE PAVED, AND ALL AREAS THAT ARE TO RECEIVE FILL MATERIAL SHALL BE STRIPPED OF VEGETATION, TREES, ROOTS, STUMPS, DEBRIS, AND OTHER ORGANIC MATERIAL. THE DEPTH OF STRIPPING IS EXTIMATED TO BE ON THE ORDER OF SIX (6) INCHES IN ORDER TO REMOVE THE SURFACE SOIL CONTAINING ORGANIC MATERIAL. THE ACTUAL STRIPPING DEPTH SHALL BE BASED ON FIELD OBSERVATIONS. STRIPPED TOPSOIL SHALL BE STOCKEDPILED N A LOCATION ON-SITE APPROVED BY THE DEVELOPER. ALL TREES, INCLUDING STUMPS AND ROOT SYSTEMS, VEGETATION, DEBRIS AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OFF-SITE. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS GOVERNING SPILLAGE OF DEBRIS WHILL TRANSPORTING TO A DISPOSAL SITE. ALL COSTS ASSOCIATED WITH DISPOSAL OF MATERIAL SHALL BE INCLUDED IN THE CONTRACT AMOUNT.

5. BURNING: BURNING SHALL NOT BE PERMITTED ON THE PROJECT SITE UNLESS APPROVED IN WRITING BY THE GOVERNING AUTHORITIES AND THE DEVELOPER.

6. PROOF ROLLING: UPON COMPLETION OF STRIPPING OPERATIONS, AND PRIOR TO PLACEMENT OF ANY FILL MATERIALS, THE STRIPPED AREAS SHOULD BE OBSERVED TO DETERMINE IF ADDITIONAL EXCAVATION IS REQUIRED TO REMOVE WEAK OR OTHERWISE OBJECTIONABLE MATERIALS THAT WOULD ADVERSELY AFFECT THE FILL PLACEMENT. THE SUBGRADE SHOULD BE FIRM AND ABLE TO SUPPORT CONSTRUCTION EQUIPMENT WITHOUT DISPLACEMENT. SOFT OR YEILDING SUBGRADE SHOULD BE CORRECTED AND MADE STABLE BEFORE CONSTRUCTION PROCEEDS. PROOF ROLLING SHOULD BE PERFORMED USING A HEAVY PNEUMATIC TIRE ROLLER, LOADED DUMP TRUCK, OR SIMILAR PIECE OF EQUIPMENT WEIGHING 25 TONS THE PROOF ROLLING OPERATIONS SHOULD BE OBSERVED BY THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE.

7. UNSTABLE MATERIAL: WHEN CLAY OR OTHER UNSTABLE MATERIAL IS PRESENT IN AREAS OF PROPOSED BUILDING PADS OR PAVED AREAS, THE GEOTECHNICAL ENGINEER SHALL OBSERVE THE STABILITY OF ANY EXISTING CLAY OR WEATHERED MATERIAL THAT IS PRESENT IN THE SUBASE AND SHALL DETERMINE WHETHER ADDITIONAL EXCAVATION OF THESE MATERIALS WILL BE REQUIRED. IF THIS MATERIAL IS DEEMED SUITABLE FOR SUBBASE MATERIAL, THE SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF (6) INCHES, ITS MOISTURE CONTENT ADJUSTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER, AND THEN RE-COMPACTED TO ONE HUNDRED (100) PERCENT OF THE OPTIMUM DENSITY DETERMINED BY THE STANDARD TEST, ASTM D - 698 PRIOR TO PLACEMENT OF FILL MATERIALS.

8. CONTROLLED FILL: ALL SOILS USED FOR CONTROLLED FILL SHOULD BE FREE OF ROOTS, VEGETATION, AND OTHER DELETERIOUS OR UNDESIRABLE MATTER, ROCKS LESS THAN 4 INCHES IN LARGEST DIMENSION WITHIN 15" OF PROPOSED SUBGRADE ELEVATION, LESS THAN 6 INCHES IN SIZE FROM 15" TO 36" OF PROPOSED SUBGRADE ELEVATION, LESS THAN 12 INCHES IN SIZE FROM 36" TO 72" OF PROPOSED SUBGRADE ELEVATION, AND LESS THAN 18 INCHES IN LARGEST DIMENSION FOR FILLS IN EXCESS OF 72" FROM SUBGRADE ELEVATION, WILL BE ALLOWED AS ACCEPTABLE FILL MATERIAL. ROCK FILLS SHOULD BE SUPPLEMENTED WITH A SUFFICIENT AMOUNT OF FINE MATERIAL TO PREVENT VOIDS. SOILS IMPORTED FROM OFF-SITE FOR USE AS FILL SHOULD BE APPROVED BY THE GEOTECHNICAL ENGINEER. BY THE GEOTECHNICAL ENGINEER. THE FILL MATERIAL SHOULD BE PLACED IN LEVEL, UNIFORM LIFTS, WITH EACH LIFT COMPACTED TO THE MINIMUM DRY DENSITY WITHIN THE COMPACTION SOIL MOISTURE RANGES RECOMMENDED. THE LOOSE LIFT THICKNESS SHOULD NOT EXCEED 10 INCHES. EACH LAYER SHOULD BE PROPERLY, PLACED, MIXED, SPREAD AND COMPACTED TO BETWEEN 95 AND 100 PERCENT OF STANDARD PROCTOR DENSITY AS DETERMINED BY ASTM D 698.

9. PROPOSED GRADES: 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.

10. MASS GRADE ELEVATIONS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR MASS GRADING OF THE SITE TO THE FOLLOWING ELEVATIONS:

- 12" BELOW FINISHED GRADE WITHIN THE BUILDING PAD AREAS.
- 8" BELOW FINISHED GRADE FOR ALL HEAVY DUTY PAVEMENT AREAS.
- 6" BELOW FINISHED GRADE FOR STANDARD DUTY PAVEMENT AREAS.
- 4" BELOW FINISHED GRADE FOR ALL SIDEWALK PAVEMENT AREAS.
- 6" BELOW FINISHED GRADE FOR ALL LANDSCAPE AREAS.

LANDSCAPE AREAS ARE TO BE GRADED WITHIN +/- 0.30 FEET OF THE FINISHED GRADE.

11. BUILDING ENTRANCE GRADES: REFER TO THE BUILDING PLANS FOR DETAILED SPOT GRADING AT THE BUILDING ENTRANCES AREAS. THE CONTRACTOR SHALL COMPLY WITH ALL ADA AND TEXAS ACCESSIBILITY STANDARDS FOR REQUIREMENTS REGARDING MAXIMUM SLOPES FOR HANDICAP PARKING AREAS, SIDEWALKS, ACCESS RAMPS AND ACCESSIBLE ROUTES.

12. LANDSCAPE AREAS: 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.

13. EARTHWORK QUANTITIES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALCULATING THE EARTHWORK QUANTITIES BASED ON THE EXISTING AND PROPOSED CONTOURS SHOWN ON THESE PLANS. ALL EARTHWORK SHALL BE CONSIDERED UNCLASSIFIED EXCAVATION AND BID ON A LUMP SUM BASIS, UNLESS NOTED OTHERWISE.

14. LIMITS OF CONSTRUCTION: NO WORK IS TO BE PERFORMED OUTSIDE OF THE PROPERTY BOUNDARY OR DEFINED LIMITS OF CONSTRUCTION.

NORTH

0 10 20 30 40
GRAPHIC SCALE IN FEET
SCALE: 1"=20'

BRUCE F. DUNNE 82854 LICENSED PROFESSIONAL ENGINEER 12/5/17

ADDISON

APPROVED FOR CONSTRUCTION
INFRASTRUCTURE & DEVELOPMENT SERVICES
BY: _____
DATE: 12/5/17

IN APPROVING THESE PLANS, THE TOWN OF ADDISON ASSUMES NO RESPONSIBILITY FOR THEIR ADEQUACY, WHICH REMAINS WITH THE ENGINEER OF RECORD.

16801 WESTGROVE DRIVE, ADDISON, TX 75001 - (972) 450-2871

BM #1 REF. ELEVATION = 573.00
TOWN OF ADDISON MONUMENT NO. 1 BEING A DISK SET IN CONCRETE ON THE NORTH SIDE OF SPRING VALLEY ROAD, APPROX. 147 FEET EAST OF THE CENTERLINE OF MARSH LANE.

BM #2 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

NO.	REVISION	BY	DATE

icon Consulting Engineers, Inc. 2840 W. Southlake Blvd., Suite 110
Civil Engineers - Designers - Planners Southlake, Tx 76092 (817) 552-6210
Engineering Firm Registration Number F-9007

BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

GRADING PLAN
NORTHEAST

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C3.03

BROOKHAVEN VILLAGE SHOPPING CENTER - PROJECT NO. 5134-01

TOWN PROJECT # 17-06

BM #1 REF. ELEVATION = 573.00
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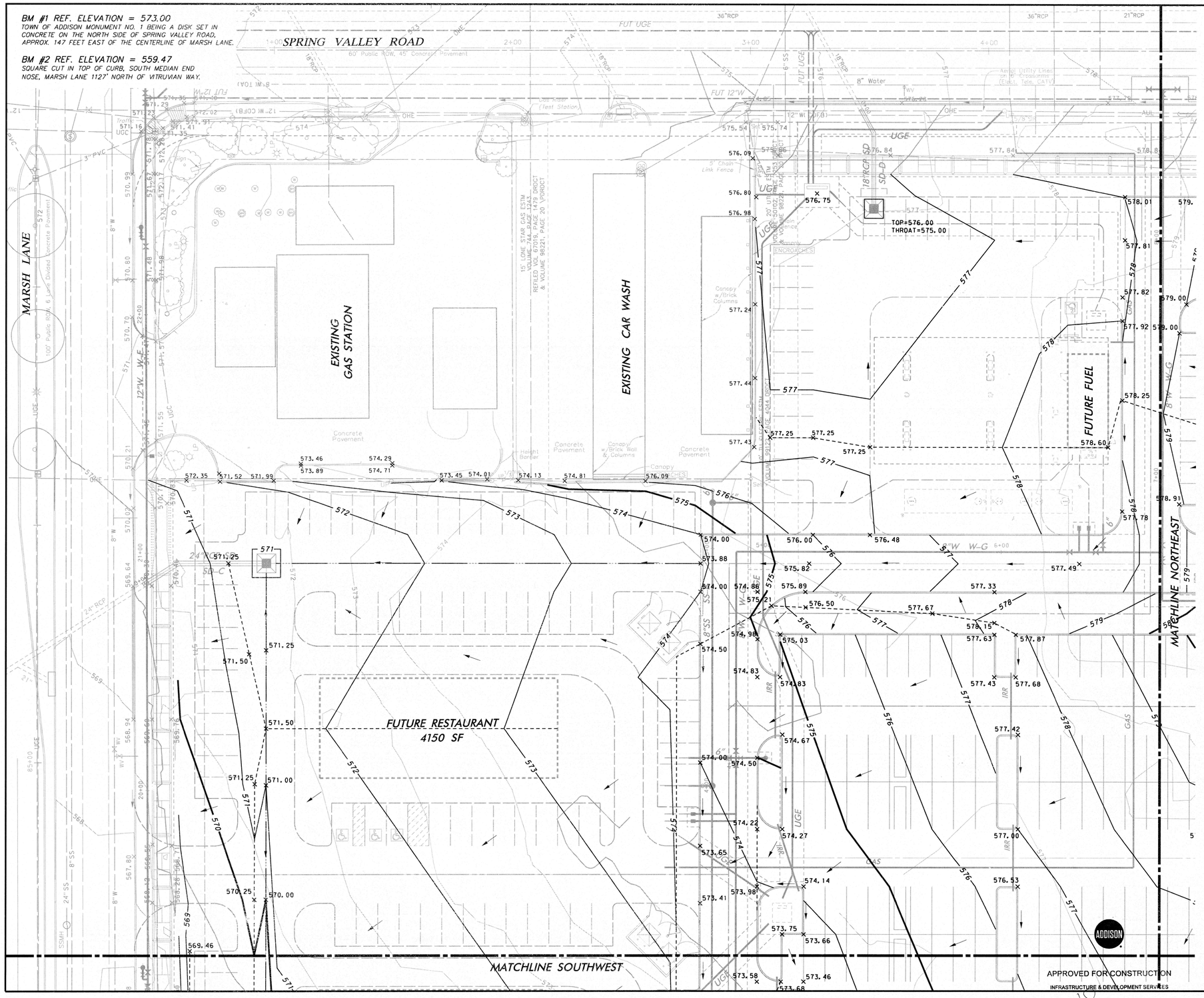

GRADING NOTES

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NORTH
0 10 20 30 40
GRAPHIC SCALE IN FEET
SCALE: 1"=20'

BRUCE F. DUNNE 62654 LICENSED PROFESSIONAL ENGINEER 12/15/17

NO.	REVISION	BY	DATE

icon Consulting Engineers, Inc. 2840 W. Southlake Blvd., Suite 110
Civil Engineers - Designers - Planners Southlake, Tx 76092 (817) 552-6210
Engineering Firm Registration Number F-9007

BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

GRADING PLAN
NORTHWEST

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C3.04

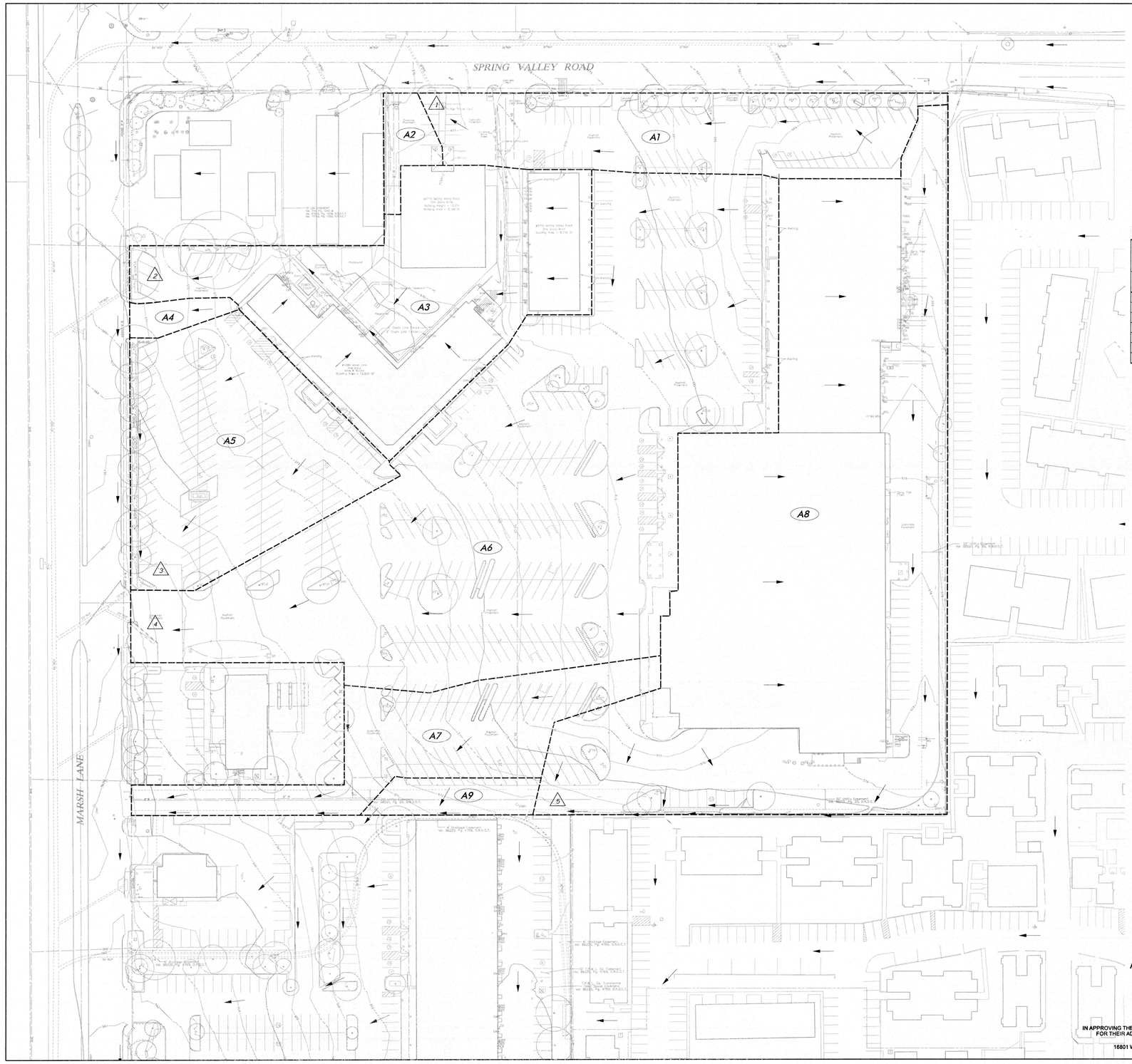
TOWN PROJECT # 17-06

APPROVED FOR CONSTRUCTION
INFRASTRUCTURE & DEVELOPMENT SERVICES
BY: _____
DATE: 1/30/18

IN APPROVING THESE PLANS, THE TOWN OF ADDISON ASSUMES NO RESPONSIBILITY FOR THEIR ADEQUACY, WHICH REMAINS WITH THE ENGINEER OF RECORD.

16801 WESTGROVE DRIVE, ADDISON, TX 75001 - (972) 450-2871

BROOKHAVEN VILLAGE SHOPPING CENTER – PROJECT NO. 5134-01



DRAINAGE AREA CALCULATIONS - PREDEVELOPMENT

AREA NO.	ACRES	RUNOFF COEFF.	CA	Tc	I10	Q10	I100	Q100	COLLECTION POINT
A1	0.85	0.90	0.77	10.0	6.5	5.00	9.3	7.09	STORM DRAIN
A2	0.10	0.90	0.09	10.0	6.5	0.59	9.3	0.83	SPRING VALLEY RD CURB INLET
A3	1.48	0.90	1.33	10.0	6.5	8.71	9.3	12.35	STORM DRAIN
A4	0.07	0.90	0.06	10.0	6.5	0.41	9.3	0.58	MARSH LN CURB INLET
A5	1.09	0.90	0.98	10.0	6.5	6.42	9.3	9.09	STORM DRAIN
A6	3.55	0.90	3.20	10.0	6.5	20.90	9.3	29.62	STORM DRAIN
A7	0.83	0.90	0.75	10.0	6.5	4.89	9.3	6.92	MARSH LN CURB INLET
A8	3.65	0.90	3.29	10.0	6.5	21.48	9.3	30.45	STORM DRAIN
	11.62					**68.40**		**96.95**	

INLET CALCULATIONS

INLET			DRAINAGE CALCS 100 YR				ROADWAY SECTION				INLET		
NO.	STATION	TYPE	AREA NO.	PEAK FLOW (CFS)	CARRY OVER (CFS)	TOTAL FLOW (CFS)	CROSS SLOPE (FT/FT)	LONG. SLOPE (FT/FT)	MAX DEPTH (FT)	SPREAD OF FLOW (FT)	LENGTH PROV. (FT)	INLET FLOW (CFS)	CARRY OVER (CFS)
1	NA	CO-S	A1	7.09	0.00	7.09	0.0208	0.0208	0.21	13.3	5.0	0.00	0.00
2	NA	CO-S	A3	12.35	0.00	12.35	0.0208	0.0208	0.28	14.6	10.0	0.00	0.00
3	NA	CO-S	A5	9.09	0.00	9.09	0.0208	0.0208	0.23	13.8	8.0	0.00	0.00
4	NA	CO-S	A6	29.62	0.00	29.62	0.0208	0.0208	0.38	19.2	27.0	0.00	0.00
5	NA	CO-S	A8	30.45	0.00	30.45	0.0208	0.0208	0.46	23.2	15.0	0.00	0.00

LEGEND

DRAINAGE AREA DESIGNATION — A1
DRAINAGE AREA BOUNDARY
DRAINAGE AREA SUB DIVIDE
DIRECTION OF FLOW
INLET NUMBER — 1

BM #1 REF. ELEVATION = 573.00
TOWN OF ADDISON MONUMENT NO. 1 BEING A DISK SET IN CONCRETE ON THE NORTH SIDE OF SPRING VALLEY ROAD, APPROX. 147 FEET EAST OF THE CENTERLINE OF MARSH LANE.

BM #2 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

NORTH

0 25 50 75 100
GRAPHIC SCALE IN FEET
SCALE: 1"=50'

BRUCE F. DUNNE 82654 LICENSED PROFESSIONAL ENGINEER 12/15/17

NO.	REVISION	BY	DATE

ADDISON

APPROVED FOR CONSTRUCTION
INFRASTRUCTURE & DEVELOPMENT SERVICES
BY:
DATE: 1/30/18

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Engineering Firm Registration Number F-9007

BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

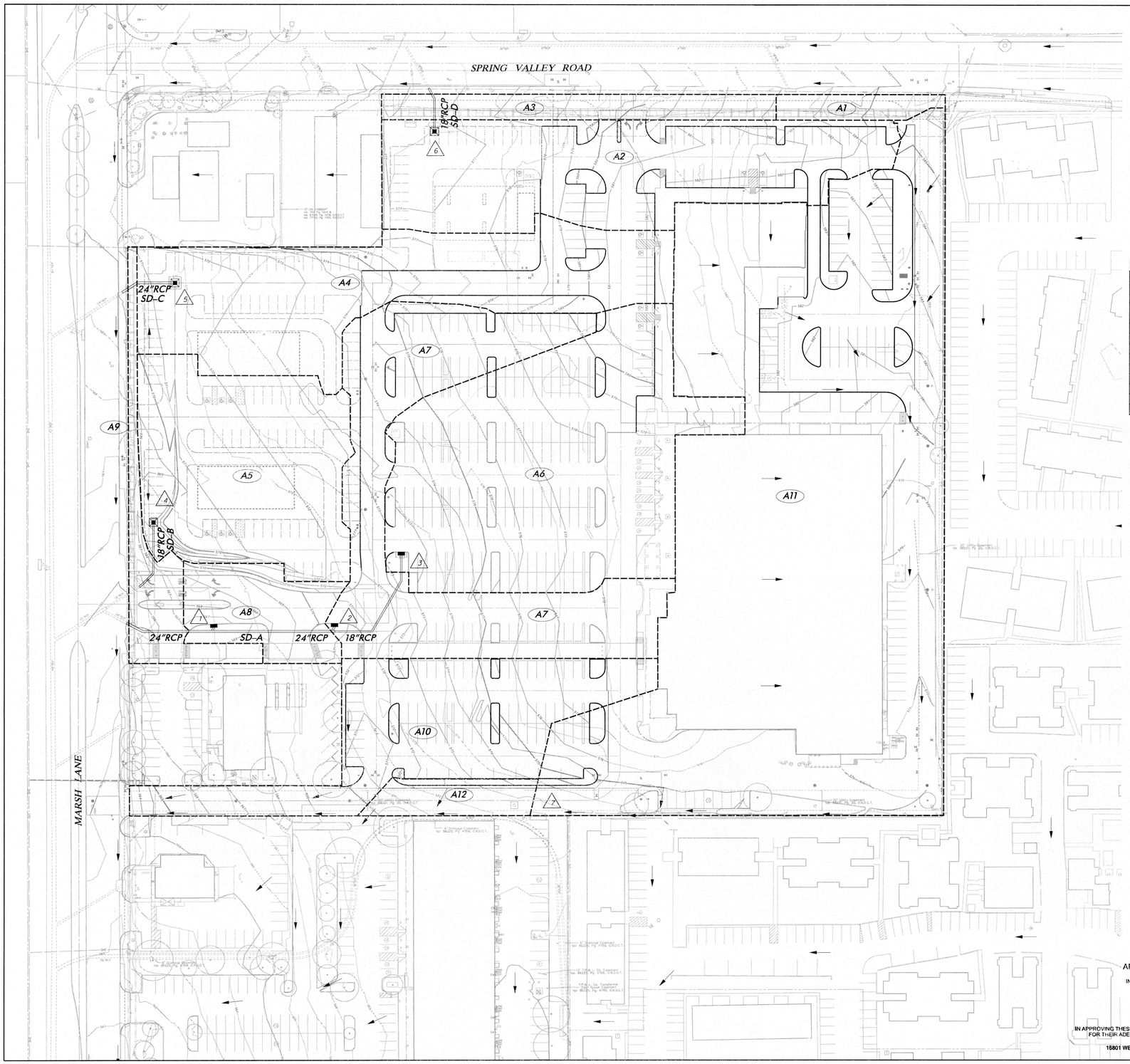
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

DRAINAGE AREA MAP & CALCULATIONS
PREDEVELOPMENT

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C4.00E

BROOKHAVEN VILLAGE SHOPPING CENTER – PROJECT NO. 5134-01

TOWN PROJECT # 17-06



DRAINAGE AREA CALCULATIONS - POSTDEVELOPMENT

AREA NO.	ACRES	RUNOFF COEFF.	CA	Tc	I10	Q10	I100	Q100	COLLECTION POINT
A1	0.09	0.90	0.08	10.0	6.5	0.53	9.3	0.75	SPRING VALLEY RD CURB INLET
A2	1.08	0.90	0.97	10.0	6.5	6.36	9.3	9.01	STORM DRAIN
A3	0.22	0.90	0.20	10.0	6.5	1.29	9.3	1.84	SPRING VALLEY RD CURB INLET
A4	1.13	0.90	1.02	10.0	6.5	6.65	9.3	9.43	STORM DRAIN
A5	0.90	0.90	0.81	10.0	6.5	5.30	9.3	7.51	STORM DRAIN
A6	1.54	0.90	1.39	10.0	6.5	9.06	9.3	12.85	STORM DRAIN
A7	1.06	0.90	0.95	10.0	6.5	6.24	9.3	8.84	STORM DRAIN
A8	0.28	0.90	0.25	10.0	6.5	1.65	9.3	2.34	STORM DRAIN
A9	0.24	0.90	0.22	10.0	6.5	1.41	9.3	2.00	MARSH LN CURB INLET
A10	0.97	0.90	0.87	10.0	6.5	5.71	9.3	8.09	MARSH LN CURB INLET
A11	4.11	0.90	3.70	10.0	6.5	24.19	9.3	34.29	STORM DRAIN
	11.62					**68.40**		**96.95**	

INLET CALCULATIONS

INLET			DRAINAGE CALCS 100 YR				ROADWAY SECTION				INLET		
NO.	STATION	TYPE	AREA NO.	PEAK FLOW (CFS)	CARRY OVER (CFS)	TOTAL FLOW (CFS)	CROSS SLOPE (FT/FT)	LONG. SLOPE (FT/FT)	MAX DEPTH (FT)	SPREAD OF FLOW (FT)	LENGTH PROV. (FT)	INLET FLOW (CFS)	CARRY OVER (CFS)
1	0+35.60	CO-S	A8	2.34	0.00	2.34	0.0208	0.0298	0.01	11.2	6.0	0.00	0.00
2	2+03.85	CO-S	A7	8.84	0.00	8.84	0.0208	0.0403	0.24	13.9	6.0	0.00	0.00
3	3+06.21	CO-S	A6	12.85	0.00	12.85	0.0208	0.0216	0.39	19.3	6.0	0.00	0.00
4	0+68.78	D-S	A5	7.51	0.00	7.51	0.0208	0.0100	0.19	13.0	12.0	0.00	0.00
5	0+54.29	D-S	A4	9.43	0.00	9.43	0.0208	0.0163	0.22	13.6	12.0	0.00	0.00
6	0+43.33	D-S	A2	9.01	0.00	9.01	0.0208	0.0100	0.22	13.4	12.0	0.00	0.00
7	NA	CO-S	A11	34.29	0.00	34.29	0.0208	0.0100	0.50	25.1	15.0	0.00	0.00

LEGEND

DRAINAGE AREA DESIGNATION — A1
DRAINAGE AREA BOUNDARY
DRAINAGE AREA SUB DIVIDE
DIRECTION OF FLOW
INLET NUMBER — 1

BM #1 REF. ELEVATION = 573.00
TOWN OF ADDISON MONUMENT NO. 1 BEING A DISK SET IN CONCRETE ON THE NORTH SIDE OF SPRING VALLEY ROAD, APPROX. 147 FEET EAST OF THE CENTERLINE OF MARSH LANE.

BM #2 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

NORTH

0 25 50 75 100
GRAPHIC SCALE IN FEET
SCALE: 1"=50'

BRUCE F. DUNNE 62654 LICENSED PROFESSIONAL ENGINEER 12/15/17

NO.	REVISION	BY	DATE

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INFRASTRUCTURE & DEVELOPMENT SERVICES
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BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

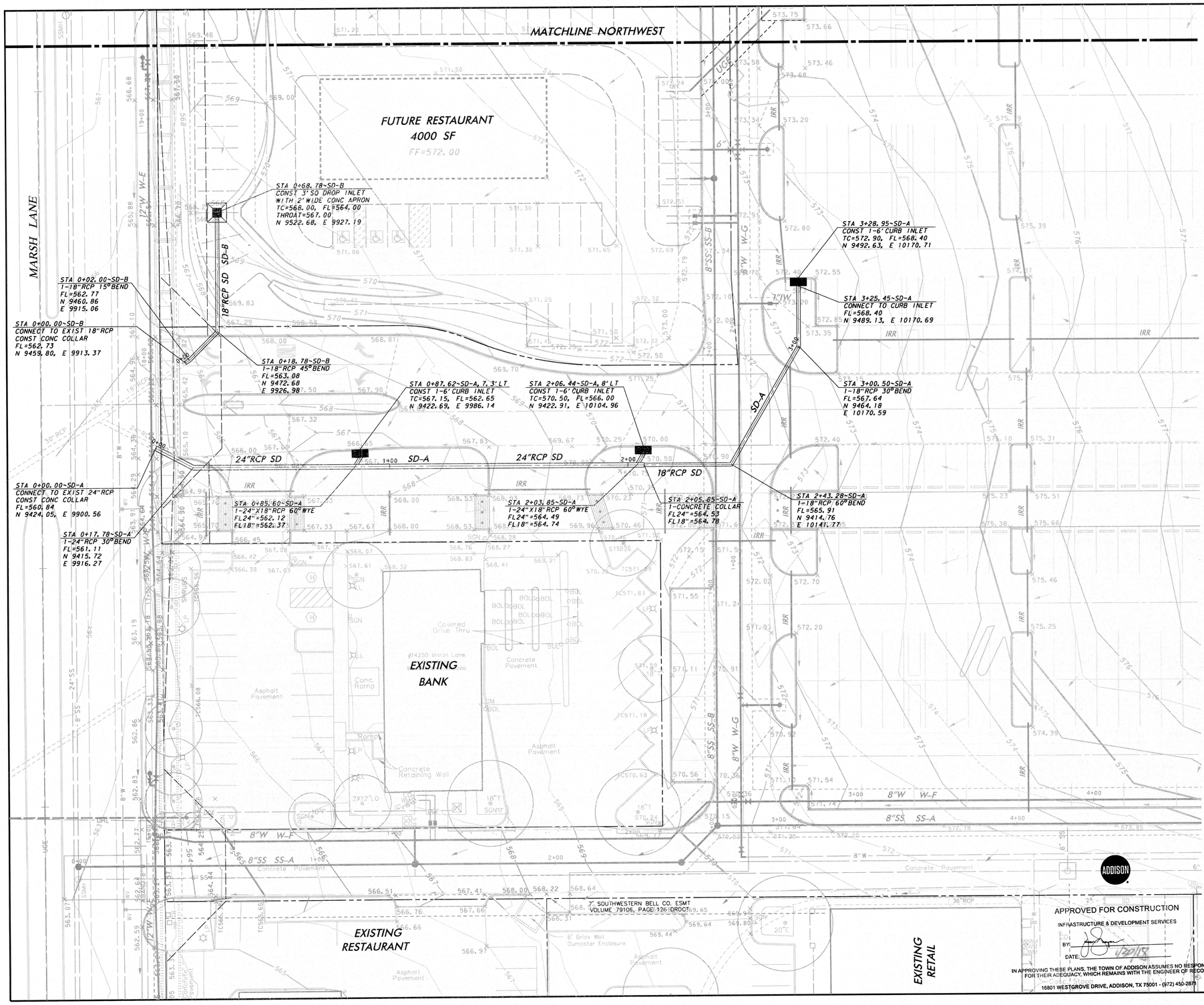
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

DRAINAGE AREA MAP & CALCULATIONS
POSTDEVELOPMENT

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C4.00P

BROOKHAVEN VILLAGE SHOPPING CENTER – PROJECT NO. 5134-01

TOWN PROJECT # 17-06



STORM DRAIN NOTES

1. **GENERAL CONSTRUCTION NOTES:** REFER TO SHEET C0.01 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THE PROJECT.

2. **PROTECTION OF UTILITIES:** THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS FOR THE SUPPORT AND PROTECTION OF ALL UTILITY POLES, FENCES, TREES, SHRUBS, GAS MAINS, TELEPHONE CABLES, ELECTRIC CABLES, DRAINAGE PIPES, UTILITY SERVICES, AND ALL OTHER UTILITIES AND STRUCTURES BOTH ABOVE AND BELOW THE GROUND.

3. **PUBLIC STORM DRAIN PIPE:** UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL PIPE FOR PUBLIC STORM DRAIN IMPROVEMENTS SHALL BE REINFORCED CONCRETE PIPE (RCP), CLASS III. PUBLIC STORM DRAIN IMPROVEMENTS INCLUDE PUBLIC RIGHT-OF-WAY, PUBLIC PARK AREA, AND EASEMENTS ADJACENT TO PUBLIC RIGHT-OF-WAY DESIGNATED FOR SIDEWALK, UTILITIES AND DRAINAGE.

4. **PRIVATE STORM DRAIN PIPE:** UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL PIPE FOR PRIVATE STORM DRAIN IMPROVEMENTS SHALL BE AS FOLLOWS:

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   18" THROUGH 36": REINFORCED CONCRETE PIPE (RCP), CLASS III OR HIGH DENSITY POLYETHYLENE PIPE (HDPE), N-12

   4" THROUGH 15": POLYVINYL CHLORIDE PIPE (PVC), SDR - 35, OR HIGH DENSITY POLYETHYLENE PIPE (HDPE), N-12

5. **RCP JOINT SEALANT:** REINFORCED CONCRETE PIPE JOINTS SHALL BE SEALED WITH RAMNECK OR APPROVED EQUAL.

6. **GROUTING:** ALL PIPE ENTERING PUBLIC STORM DRAIN STRUCTURES SHALL BE GROUTED TO ASSURE WATERTIGHT CONNECTIONS.

7. **CONCRETE COLLARS:** CONCRETE COLLARS SHALL BE INSTALLED AT ALL CHANGES IN CONDUIT SIZE AND AT ALL JOINTS THAT ARE PULLED IN EXCESS OF THAT RECOMMENDED BY THE CONDUIT MANUFACTURER.

8. **DRAINS:** THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ROOF DRAIN LATERALS WITH BUILDING PLANS FOR DOWNSPOUT CONNECTIONS. END AND CAP ROOF DRAIN LATERALS TWO (2) FEET FROM BUILDING AT 12" BELOW FINISH GRADE FOR CONNECTION OF DOWNSPOUTS.

9. **ADJUSTMENT OF STRUCTURES:** ALL STORM DRAIN STRUCTURES INCLUDING MANHOLES, INLETS AND CLEANOUTS MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO, AND AFTER, PLACEMENT OF PAVING AND GRASSING.

ALL STORM DRAIN SHOWN IS PRIVATE.

WARNING

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BM #1 REF. ELEVATION = 573.00
TOWN OF ADDISON MONUMENT NO. 1 BEING A DISK SET IN CONCRETE ON THE NORTH SIDE OF SPRING VALLEY ROAD, APPROX. 147 FEET EAST OF THE CENTERLINE OF MARSH LANE.

BM #2 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

NORTH

0 10 20 30 40
GRAPHIC SCALE IN FEET
SCALE: 1"=20'

STATE OF TEXAS
BRUCE F. DUNNE
62658
LICENSED PROFESSIONAL ENGINEER
12/15/17

APPROVED FOR CONSTRUCTION
INFRASTRUCTURE & DEVELOPMENT SERVICES
BY:
DATE: 12/15/17

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16801 WESTGROVE DRIVE, ADDISON, TX 75001 - (972) 450-2871

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BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

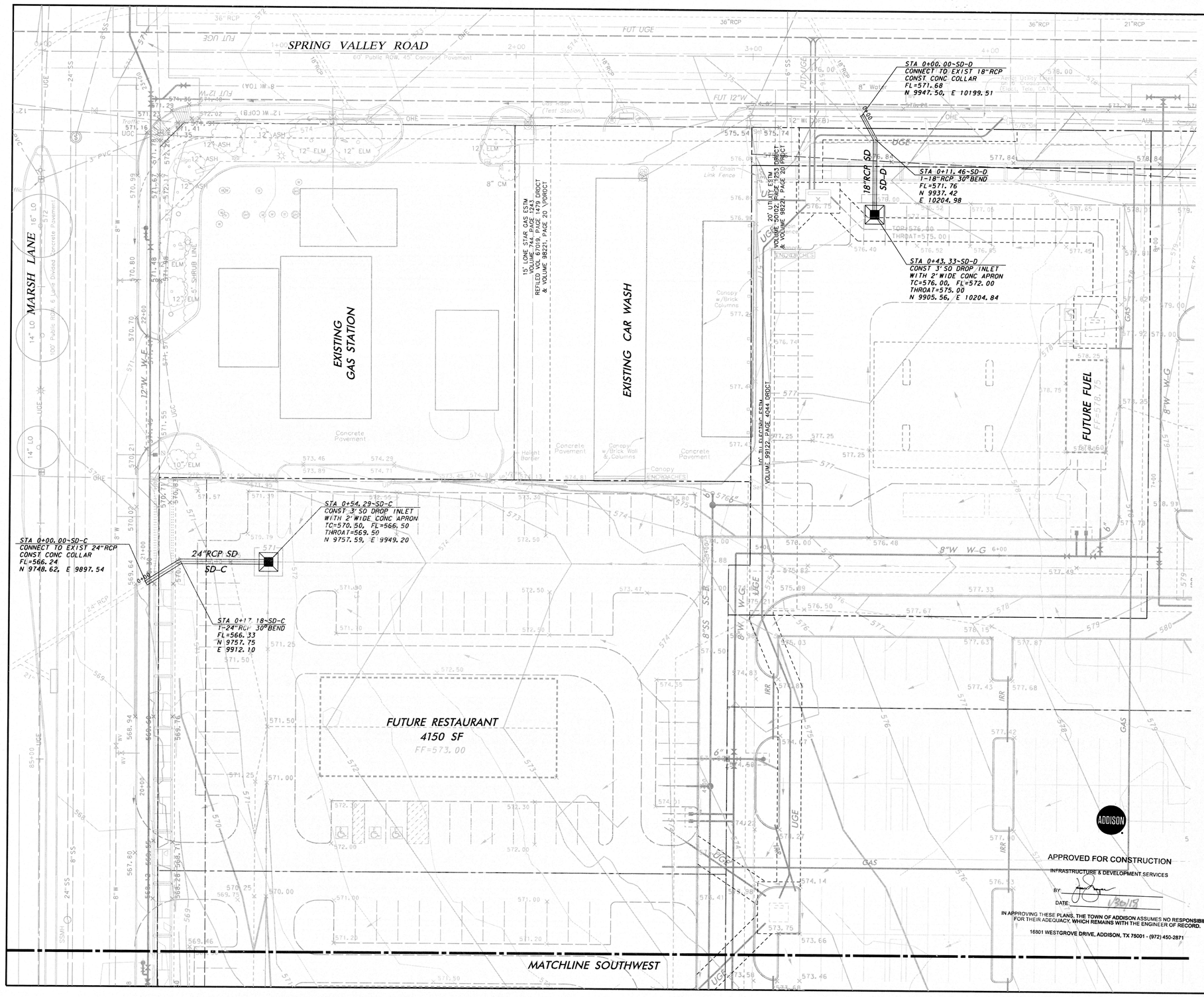
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

STORM DRAIN PLAN
SOUTHWEST

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C4.01

TOWN PROJECT # 17-06

BROOKHAVEN VILLAGE SHOPPING CENTER - PROJECT NO. 5134-01



STORM DRAIN NOTES

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

NORTH

0 10 20 30 40
GRAPHIC SCALE IN FEET
SCALE: 1"=20'

STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED PROFESSIONAL ENGINEER
12/15/17

ADDISON

APPROVED FOR CONSTRUCTION
INFRASTRUCTURE & DEVELOPMENT SERVICES
BY:
DATE: 1/26/18
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Engineering Firm Registration Number F-9007

BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

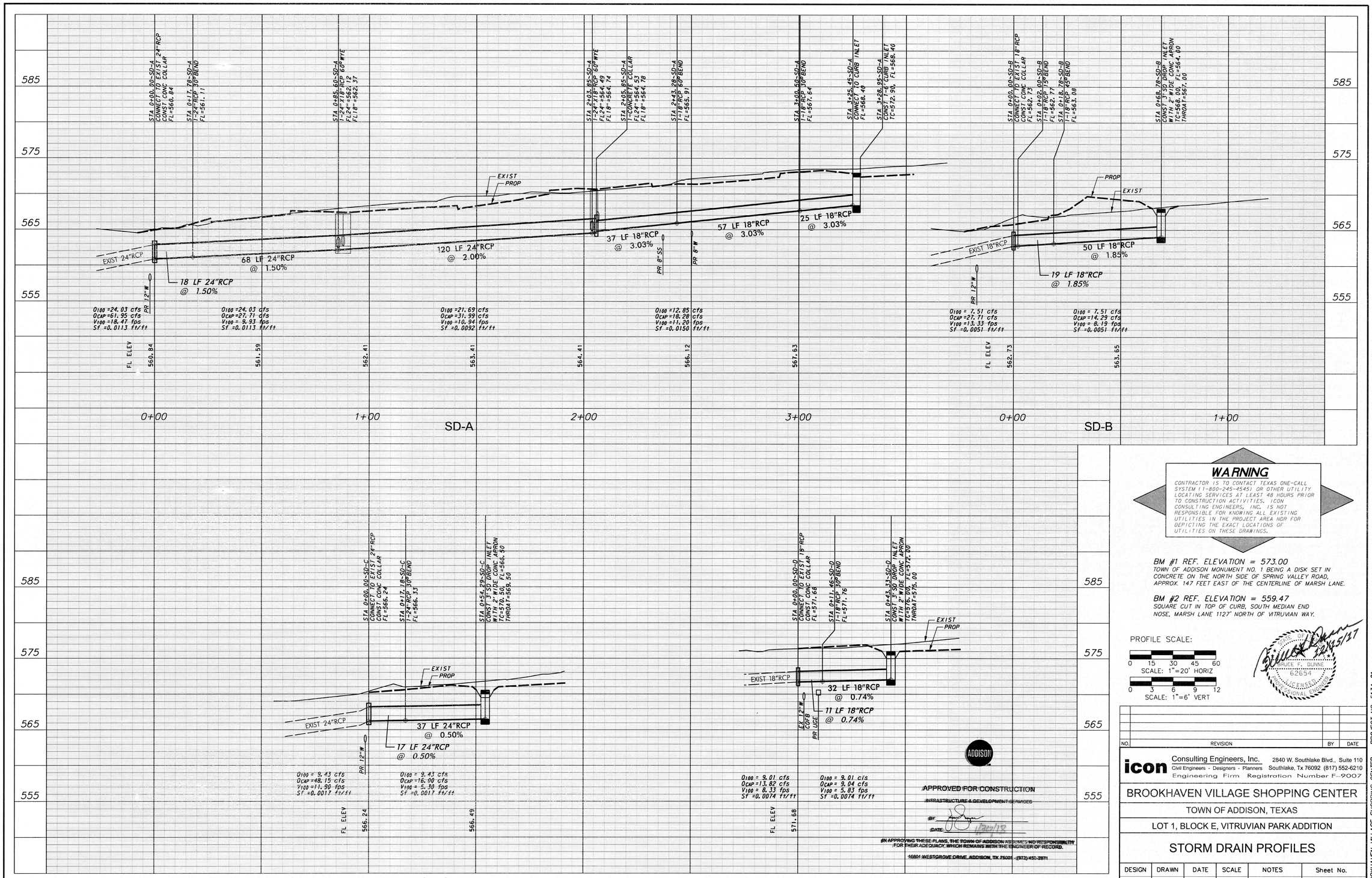
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

STORM DRAIN PLAN
NORTHWEST

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C4.02

BROOKHAVEN VILLAGE SHOPPING CENTER - PROJECT NO. 5134-01

TOWN PROJECT # 17-06



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

PROFILE SCALE:
0 15 30 45 60
SCALE: 1"=20' HORIZ
0 3 6 9 12
SCALE: 1"=6' VERT

NO.	REVISION	BY	DATE

APPROVED FOR CONSTRUCTION
INFRASTRUCTURE & DEVELOPMENT SERVICES
BY:
DATE: 12/19/17
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BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

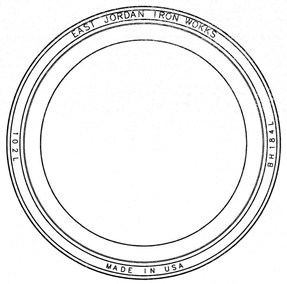
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

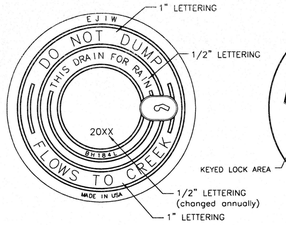
STORM DRAIN PROFILES

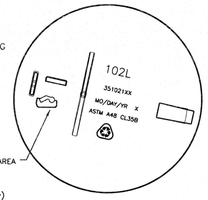
DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C4.03

BROOKHAVEN VILLAGE SHOPPING CENTER – PROJECT NO. 5134-01

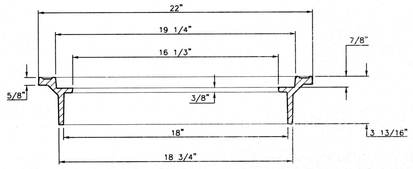
TOWN PROJECT # 17-06



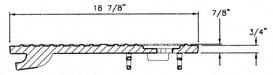




BOTTOM VIEW



RING SECTION



COVER SECTION

LOAD RATING	COATING	ESTIMATED WEIGHT	MATERIAL SPECIFICATION
LIGHT DUTY INLET COVER	DIPPED	COVER: 60 LBS	COVER - GRAY IRON ASTM A48 CL35B
NON-TRAFFIC INLET RING		FRAME: 151 LBS	FRAME - GRAY IRON ASTM A48 CL35B

√ DESIGNATES MACHINE SURFACE

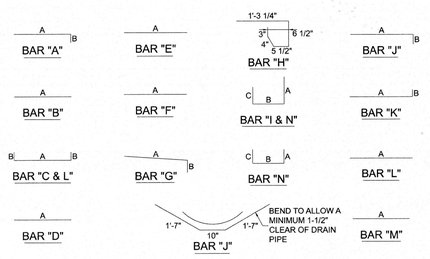
INLET FRAME AND COVER

REINFORCING STEEL SCHEDULE

DIMENSIONS ARE FOR MAXIMUM SIZE INLETS

INLET LENGTH	BAR TYPE	BAR DIA (1/8")	NO. REQ'D.	BAR DIMENSIONS A	B	C	INLET LENGTH	BAR TYPE	BAR DIA (1/8")	NO. REQ'D.	BAR DIMENSIONS A	B	C
6'	A	3	15	3'-2"	0'-6"	–	8'	A	3	19	3'-2"	0'-6"	–
	B	3	2	11'-6"	–	–		B	3	2	15'-6"	–	–
	C	4	16	13'-4"	0'-6"	–		C	4	16	17'-4"	0'-6"	–
	D	4	9	4'-8"	–	–		D	4	9	4'-8"	–	–
	E	5	6	13'-4"	–	–		E	5	6	17'-4"	–	–
	F	4	5	1'-2"	–	–		F	4	5	1'-2"	–	–
	G	3	12	2'-0"	1'-3"	–		G	3	12	2'-0"	1'-3"	–
	H	3	26	*	*	*		H	3	26	*	*	*
	I	4	12	4'-8"	3'-2"	3'-2"		I	4	16	4'-8"	3'-2"	3'-2"
	J	5	1	*	*	*		J	5	1	*	*	*
	K	5	6	3'-2"	0'-6"	–		K	5	6	3'-2"	0'-6"	–
	L	4	11	3'-2"	0'-6"	–		L	4	11	3'-2"	0'-6"	–
	M	4	2	3'-0"**	–	–		M	4	2	3'-0"**	–	–
	N	4	2	4'-8"	3'-2"	4'-8"		N	4	2	4'-8"	3'-2"	4'-8"
7'	A	3	17	3'-2"	0'-6"	–	10'	A	3	23	3'-2"	0'-6"	–
	B	3	2	13'-6"	–	–		B	3	2	19'-6"	–	–
	C	4	16	15'-4"	0'-6"	–		C	4	16	21'-4"	0'-6"	–
	D	4	9	4'-8"	–	–		D	4	9	4'-8"	–	–
	E	5	6	15'-4"	–	–		E	5	6	21'-4"	–	–
	F	4	5	1'-2"	–	–		F	4	5	1'-2"	–	–
	G	3	15	2'-0"	1'-3"	–		G	3	15	2'-0"	1'-3"	–
	H	3	32	*	*	*		H	3	32	*	*	*
	I	4	14	4'-8"	3'-2"	3'-2"		I	4	20	4'-8"	3'-2"	3'-2"
	J	5	1	*	*	*		J	5	1	*	*	*
	K	5	6	3'-2"	0'-6"	–		K	5	6	3'-2"	0'-6"	–
	L	4	11	3'-2"	0'-6"	–		L	4	11	3'-2"	0'-6"	–
	M	4	2	3'-0"**	–	–		M	4	2	3'-0"**	–	–
	N	4	2	4'-8"	3'-2"	4'-8"		N	4	2	4'-8"	3'-2"	4'-8"

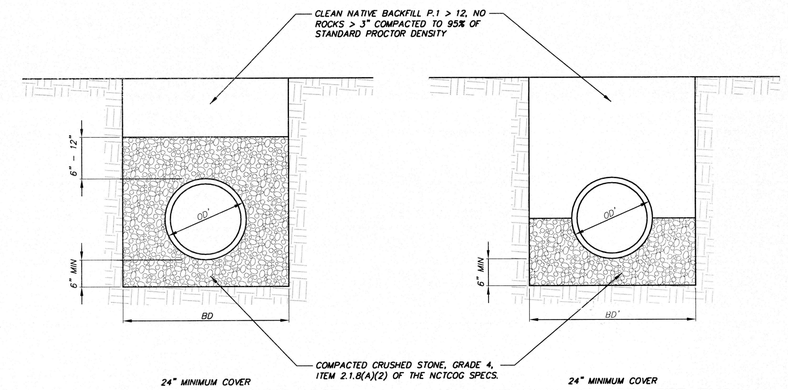
* SEE DIAGRAM FOR DIMENSION
** FIELD CUT AS REQUIRED TO ACCOMMODATE DRAIN PIPE



BAR DIAGRAMS

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

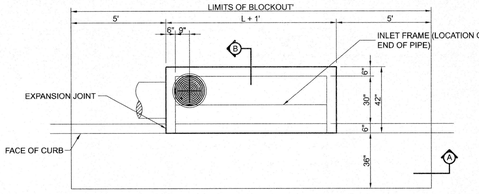
RCP STORM SEWER PIPE BEDDING

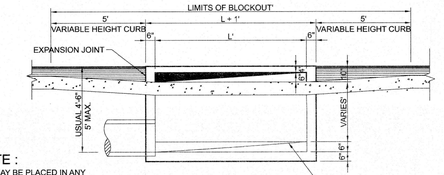


HIGH DENSITY POLYETHYLENE (HDPE)
(FOR PRIVATE USE ONLY)

POLYVINYL CHLORIDE PIPE (PVC)
(FOR PRIVATE USE ONLY)

STORM DRAIN EMBEDMENT
NOT TO SCALE



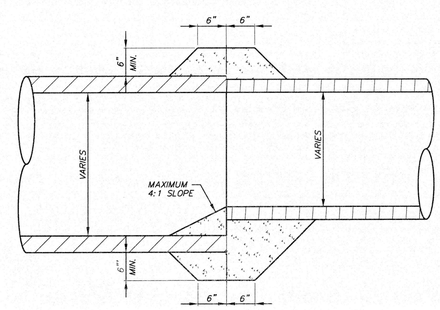


SECTION A

NOTE :
PIPE MAY BE PLACED IN ANY WALL, BUT SHALL NOT ENTER ANY CORNER OR BOTTOM.

#3 BAR 18" O.C.E.W. IN BLOCK OUT DRILLED INTO EXISTING CONCRETE.

STANDARD CURB INLET
6, 8 AND 10 FOOT
N.T.S.



CONCRETE COLLAR
NOT TO SCALE



NO.	REVISION	BY	DATE

icon Consulting Engineers, Inc. — Civil Engineers - Designers - Planners — Engineering Firm Registration Number F-9007
2840 W. Southlake Blvd., Suite 110
Southlake, Tx 76092 (817) 552-6210

BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

STORM DRAIN DETAILS

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C4.04

APPROVED FOR CONSTRUCTION
INFRASTRUCTURE & DEVELOPMENT SERVICES
BY:
DATE: 1/30/18

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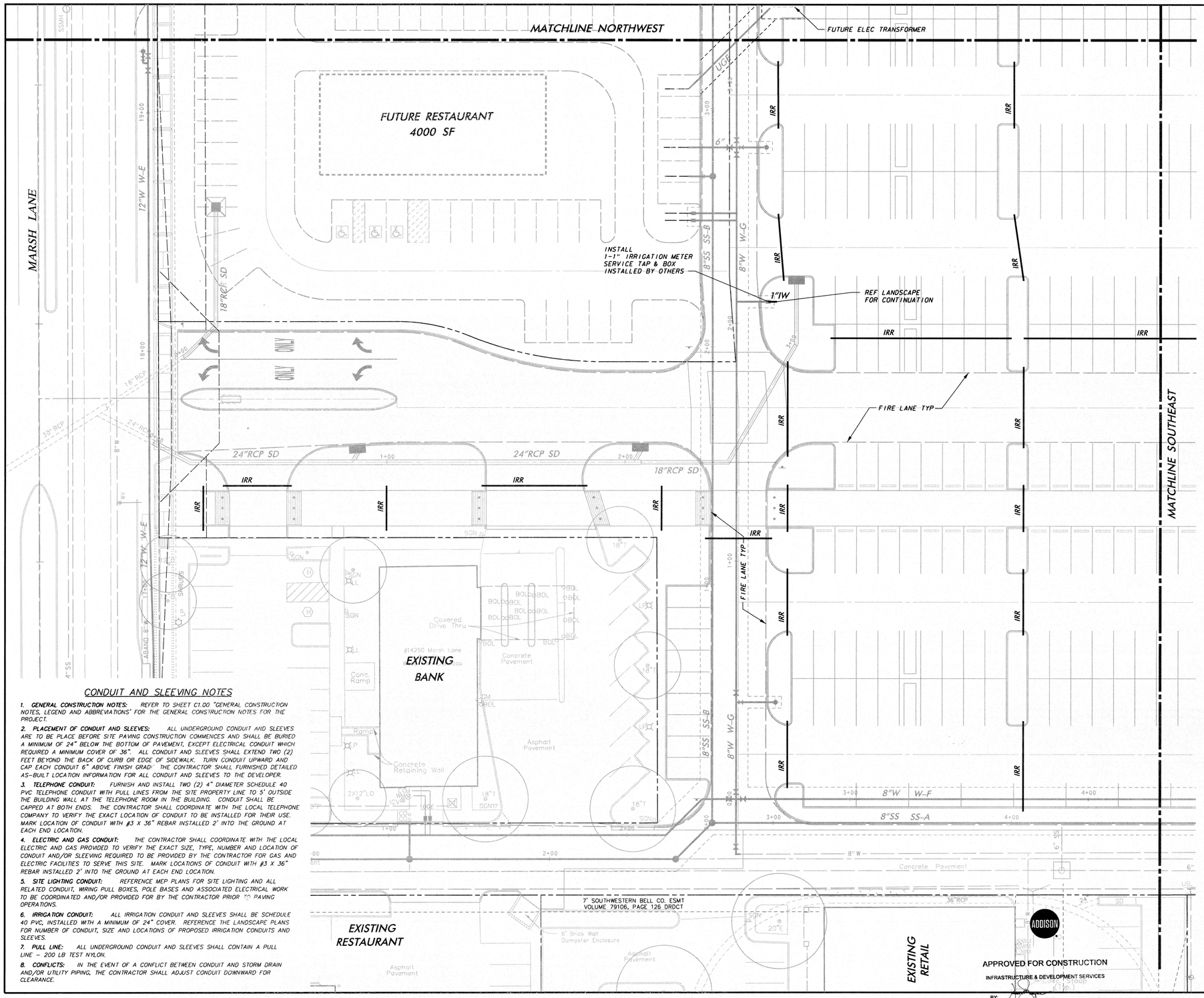
16801 WESTGROVE DRIVE, ADDISON, TX 75001 - (972) 450-2871

BROOKHAVEN VILLAGE SHOPPING CENTER – PROJECT NO. 5134-01

TOWN PROJECT # 17-06



UTILITY NOTES

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3. **TRENCH COMPACTION:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING COMPACTION TO A MINIMUM OF 95% STANDARD PROCTOR IN AREAS OF PROPOSED AND FUTURE PAVEMENT AND ALL AREAS EXCAVATED AT THE BUILDING FOOTINGS FOR UTILITY SERVICE ENTRIES. TRENCHES WHICH LIE OUTSIDE THESE AREAS SHALL BE COMPACTED TO A MINIMUM OF 90% STANDARD PROCTOR.
4. **CONFLICTS:** THE CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND TO ASSURE PROPER DEPTHS ARE ACHIEVED. IN THE EVENT OF A CONFLICT BETWEEN WATER 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 DEFLECTIONS AND JOINT STRESS ARE NOT EXCEEDED.
5. **CONNECTION TO EXISTING UTILITIES:** 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 CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING FACILITIES DAMAGED BY HIS ACTIVITIES.
6. **WATER METERS:** THE CONTRACTOR SHALL ACQUIRE OR PROVIDE BOTH DOMESTIC AND IRRIGATION METERS PER THE GOVERNING AUTHORITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING METERS INSTALLED IN BOXES AND CONNECTING PUBLIC TO PRIVATE WATER LINES.
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15. **SANITARY SEWER PIPE:** ALL SEWER PIPE SHALL BE SDR-35, IN ACCORDANCE WITH ASTM SPECIFICATIONS D-3034 FOR 4" THROUGH 15", AND ASTM F-879 FOR 15" THROUGH 27".
16. **WATER PIPE:** ALL WATER MAINS 4 INCH THROUGH 12 INCH SHALL BE C-900 (SDR-18). WATER MAINS 14 INCH THROUGH 36 INCH SHALL BE C -905 (SDR - 18). WATER LINES LESS THAN 4" SHALL BE TYPE K COPPER.

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3. **TELEPHONE CONDUIT:** FURNISH AND INSTALL TWO (2) 4" DIAMETER SCHEDULE 40 PVC TELEPHONE CONDUIT WITH PULL LINES FROM THE SITE PROPERTY LINE TO 5' OUTSIDE THE BUILDING WALL AT THE TELEPHONE ROOM IN THE BUILDING. CONDUIT SHALL BE CAPPED AT BOTH ENDS. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL TELEPHONE COMPANY TO VERIFY THE EXACT LOCATION OF CONDUIT TO BE INSTALLED FOR THEIR USE. MARK LOCATION OF CONDUIT WITH #3 X 36" REBAR INSTALLED 2' INTO THE GROUND AT EACH END LOCATION.
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6. **IRRIGATION CONDUIT:** ALL IRRIGATION CONDUIT AND SLEEVES SHALL BE SCHEDULE 40 PVC, INSTALLED WITH A MINIMUM OF 24" COVER. REFERENCE THE LANDSCAPE PLANS FOR NUMBER OF CONDUIT, SIZE AND LOCATIONS OF PROPOSED IRRIGATION CONDUITS AND SLEEVES.
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WARNING

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BM #1 REF. ELEVATION = 573.00
TOWN OF ADDISON MONUMENT NO. 1 BEING A DISK SET IN CONCRETE ON THE NORTH SIDE OF SPRING VALLEY ROAD, APPROX. 147 FEET EAST OF THE CENTERLINE OF MARSH LANE.

BM #2 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

NORTH

0 10 20 30 40
GRAPHIC SCALE IN FEET
SCALE: 1"=20'

STATE OF TEXAS
BRUCE F. BUNE
62654
LICENSED
PROFESSIONAL ENGINEER
12/5/17

NO.	REVISION	BY	DATE

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
Engineering Firm Registration Number F-9007
2840 W. Southlake Blvd., Suite 110
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BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

UTILITY PLAN
SOUTHWEST

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C5.01

ADDISON

APPROVED FOR CONSTRUCTION
INFRASTRUCTURE & DEVELOPMENT SERVICES
BY:
DATE: 1/22/18

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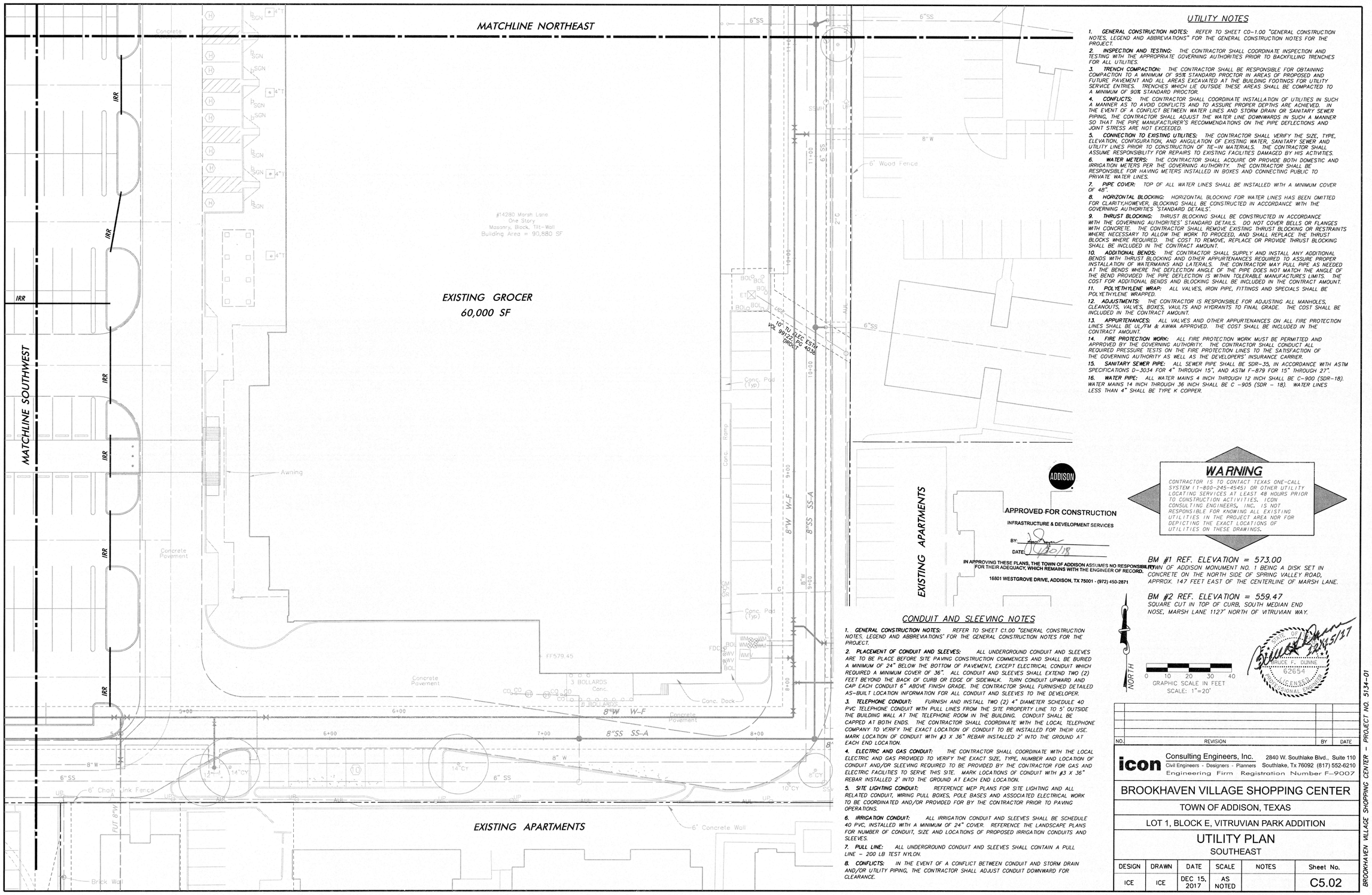
16801 WESTGROVE DRIVE, ADDISON, TX 75001 - (972) 450-2871

TOWN PROJECT # 17-06

BROOKHAVEN VILLAGE SHOPPING CENTER - PROJECT NO. 5134-01



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ADDISON

APPROVED FOR CONSTRUCTION
INFRASTRUCTURE & DEVELOPMENT SERVICES
BY:
DATE: 12/6/18
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16801 WESTGROVE DRIVE, ADDISON, TX 75001 - (972) 450-2871

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NORTH
0 10 20 30 40
GRAPHIC SCALE IN FEET
SCALE: 1"=20'

STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED PROFESSIONAL ENGINEER
12/5/17

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icon Consulting Engineers, Inc. 2840 W. Southlake Blvd., Suite 110
Civil Engineers - Designers - Planners Southlake, Tx 76092 (817) 552-6210
Engineering Firm Registration Number F-9007

BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

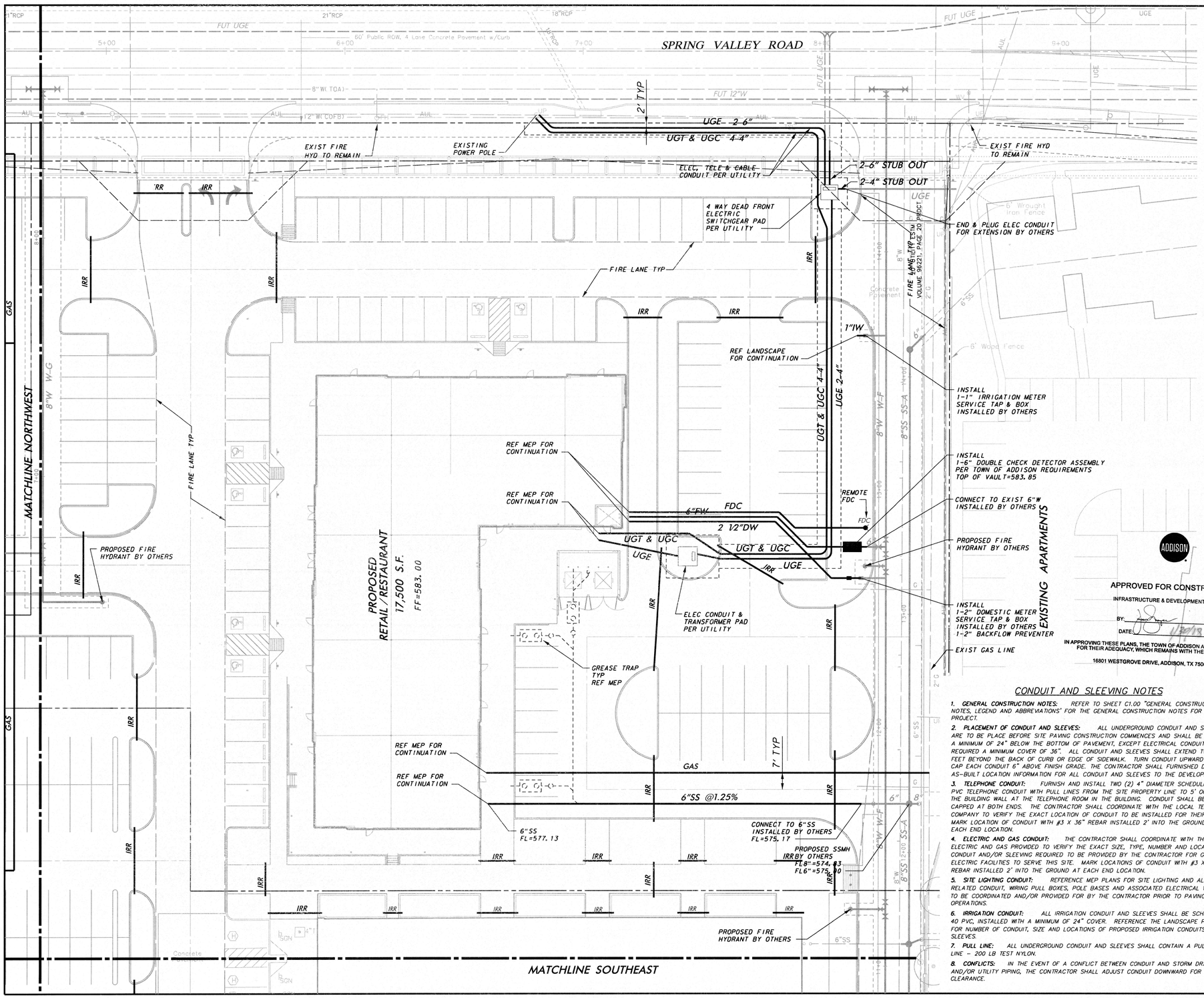
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

UTILITY PLAN
SOUTHEAST

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C5.02

BROOKHAVEN VILLAGE SHOPPING CENTER – PROJECT NO. 5134-01

TOWN PROJECT # 17-06



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3. **TELEPHONE CONDUIT:** FURNISH AND INSTALL TWO (2) 4" DIAMETER SCHEDULE 40 PVC TELEPHONE CONDUIT WITH PULL LINES FROM THE SITE PROPERTY LINE TO 5' OUTSIDE THE BUILDING WALL AT THE TELEPHONE ROOM IN THE BUILDING. CONDUIT SHALL BE CAPPED AT BOTH ENDS. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL TELEPHONE COMPANY TO VERIFY THE EXACT LOCATION OF CONDUIT TO BE INSTALLED FOR THEIR USE. MARK LOCATION OF CONDUIT WITH #3 X 36" REBAR INSTALLED 2' INTO THE GROUND AT EACH END LOCATION.
4. **ELECTRIC AND GAS CONDUIT:** THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL ELECTRIC AND GAS PROVIDED TO VERIFY THE EXACT SIZE, TYPE, NUMBER AND LOCATION OF CONDUIT AND/OR SLEEVING REQUIRED TO BE PROVIDED BY THE CONTRACTOR FOR GAS AND ELECTRIC FACILITIES TO SERVE THIS SITE. MARK LOCATIONS OF CONDUIT WITH #3 X 36" REBAR INSTALLED 2' INTO THE GROUND AT EACH END LOCATION.
5. **SITE LIGHTING CONDUIT:** REFERENCE MEP PLANS FOR SITE LIGHTING AND ALL RELATED CONDUIT, WIRING PULL BOXES, POLE BASES AND ASSOCIATED ELECTRICAL WORK TO BE COORDINATED AND/OR PROVIDED FOR BY THE CONTRACTOR PRIOR TO PAVING OPERATIONS.
6. **IRRIGATION CONDUIT:** ALL IRRIGATION CONDUIT AND SLEEVES SHALL BE SCHEDULE 40 PVC, INSTALLED WITH A MINIMUM OF 24" COVER. REFERENCE THE LANDSCAPE PLANS FOR NUMBER OF CONDUIT, SIZE AND LOCATIONS OF PROPOSED IRRIGATION CONDUITS AND SLEEVES.
7. **PULL LINE:** ALL UNDERGROUND CONDUIT AND SLEEVES SHALL CONTAIN A PULL LINE – 200 LB TEST NYLON.
8. **CONFLICTS:** IN THE EVENT OF A CONFLICT BETWEEN CONDUIT AND STORM DRAIN AND/OR UTILITY PIPING, THE CONTRACTOR SHALL ADJUST CONDUIT DOWNWARD FOR CLEARANCE.

ADDISON

APPROVED FOR CONSTRUCTION
INFRASTRUCTURE & DEVELOPMENT SERVICES
BY:
DATE: 11/27/13
IN APPROVING THESE PLANS, THE TOWN OF ADDISON ASSUMES NO RESPONSIBILITY FOR THEIR ADEQUACY, WHICH REMAINS WITH THE ENGINEER OF RECORD.
16801 WESTGROVE DRIVE, ADDISON, TX 75001 - (972) 450-2871

WARNING
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BM #1 REF. ELEVATION = 573.00
TOWN OF ADDISON MONUMENT NO. 1 BEING A DISK SET IN CONCRETE ON THE NORTH SIDE OF SPRING VALLEY ROAD, APPROX. 147 FEET EAST OF THE CENTERLINE OF MARSH LANE.

BM #2 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

NORTH
0 10 20 30 40
GRAPHIC SCALE IN FEET
SCALE: 1"=20'

STATE OF TEXAS
CHRIS F. DUNNE
62654
LICENSED PROFESSIONAL ENGINEER
12/5/17

NO.	REVISION	BY	DATE

icon Consulting Engineers, Inc. 2840 W. Southlake Blvd., Suite 110
Civil Engineers - Designers - Planners Southlake, Tx 76092 (817) 552-6210
Engineering Firm Registration Number F-9007

BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

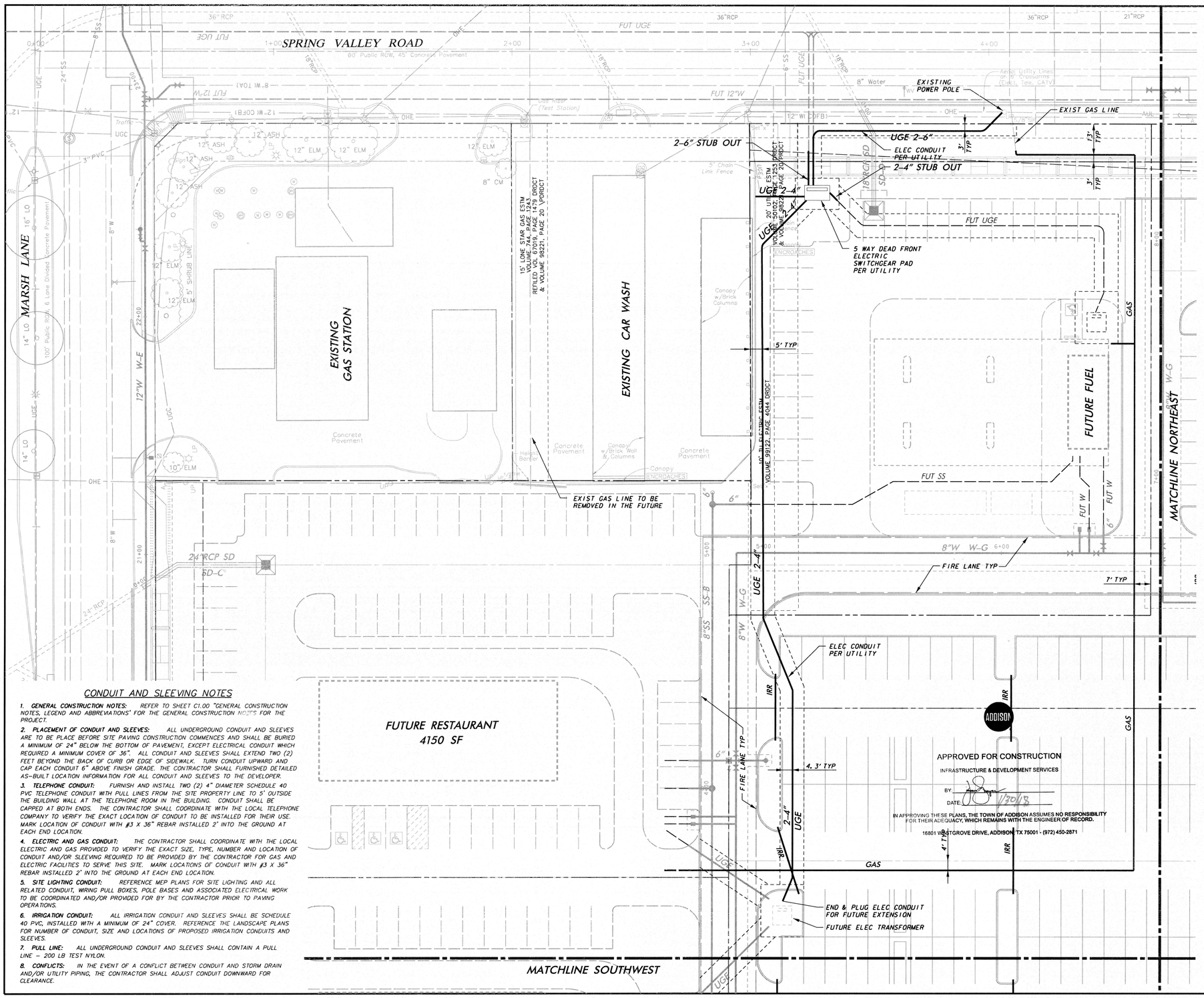
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

UTILITY PLAN
NORTHEAST

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C5.03

BROOKHAVEN VILLAGE SHOPPING CENTER – PROJECT NO. 5134-01

TOWN PROJECT # 17-06



UTILITY NOTES

1. **GENERAL CONSTRUCTION NOTES:** REFER TO SHEET C0-1.00 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THE PROJECT.
2. **INSPECTION AND TESTING:** THE CONTRACTOR SHALL COORDINATE INSPECTION AND TESTING WITH THE APPROPRIATE GOVERNING AUTHORITIES PRIOR TO BACKFILLING TRENCHES FOR ALL UTILITIES.
3. **TRENCH COMPACTION:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING COMPACTION TO A MINIMUM OF 95% STANDARD PROCTOR IN AREAS OF PROPOSED AND FUTURE PAVEMENT AND ALL AREAS EXCAVATED AT THE BUILDING FOOTINGS FOR UTILITY SERVICE ENTRIES. TRENCHES WHICH LIE OUTSIDE THESE AREAS SHALL BE COMPACTED TO A MINIMUM OF 90% STANDARD PROCTOR.
4. **CONFLICTS:** THE CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND TO ASSURE PROPER DEPTHS ARE ACHIEVED. IN THE EVENT OF A CONFLICT BETWEEN WATER 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 DEFLECTIONS AND JOINT STRESS ARE NOT EXCEEDED.
5. **CONNECTION TO EXISTING UTILITIES:** 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 CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING FACILITIES DAMAGED BY HIS ACTIVITIES.
6. **WATER METERS:** THE CONTRACTOR SHALL ACQUIRE OR PROVIDE BOTH DOMESTIC AND IRRIGATION METERS PER THE GOVERNING AUTHORITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING METERS INSTALLED IN BOXES AND CONNECTING PUBLIC TO PRIVATE WATER LINES.
7. **PIPE COVER:** TOP OF ALL WATER LINES SHALL BE INSTALLED WITH A MINIMUM COVER OF 48".
8. **HORIZONTAL BLOCKING:** HORIZONTAL BLOCKING FOR WATER LINES HAS BEEN OMITTED FOR CLARITY,HOWEVER, BLOCKING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GOVERNING AUTHORITIES 'STANDARD DETAILS'.
9. **THRUST BLOCKING:** THRUST BLOCKING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GOVERNING AUTHORITIES' STANDARD DETAILS. DO NOT COVER BELLS OR FLANGES WITH CONCRETE. THE CONTRACTOR SHALL REMOVE EXISTING THRUST BLOCKING OR RESTRAINTS WHERE NECESSARY TO ALLOW THE WORK TO PROCEED, AND SHALL REPLACE THE THRUST BLOCKS WHERE REQUIRED. THE COST TO REMOVE, REPLACE OR PROVIDE THRUST BLOCKING SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
10. **ADDITIONAL BENDS:** THE CONTRACTOR SHALL SUPPLY AND INSTALL ANY ADDITIONAL BENDS WITH THRUST BLOCKING AND OTHER APPURTENANCES REQUIRED TO ASSURE PROPER INSTALLATION OF WATERMAINS AND LATERALS. THE CONTRACTOR MAY PULL PIPE AS NEEDED AT THE BENDS WHERE THE DEFLECTION ANGLE OF THE PIPE DOES NOT MATCH THE ANGLE OF THE BEND PROVIDED THE PIPE DEFLECTION IS WITHIN TOLERABLE MANUFACTURES LIMITS. THE COST FOR ADDITIONAL BENDS AND BLOCKING SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
11. **POLYETHYLENE WRAP:** ALL VALVES, IRON PIPE, FITTINGS AND SPECIALS SHALL BE POLYETHYLENE WRAPPED.
12. **ADJUSTMENTS:** THE CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ALL MANHOLES, CLEANOUTS, VALVES, BOXES, VAULTS AND HYDRANTS TO FINAL GRADE. THE COST SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
13. **APPURTENANCES:** ALL VALVES AND OTHER APPURTENANCES ON ALL FIRE PROTECTION LINES SHALL BE UL/FM & AWWA APPROVED. THE COST SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
14. **FIRE PROTECTION WORK:** ALL FIRE PROTECTION WORK MUST BE PERMITTED AND APPROVED BY THE GOVERNING AUTHORITY. THE CONTRACTOR SHALL CONDUCT ALL REQUIRED PRESSURE TESTS ON THE FIRE PROTECTION LINES TO THE SATISFACTION OF THE GOVERNING AUTHORITY AS WELL AS THE DEVELOPERS' INSURANCE CARRIER.
15. **SANITARY SEWER PIPE:** ALL SEWER PIPE SHALL BE SDR-35, IN ACCORDANCE WITH ASTM SPECIFICATIONS D-3034 FOR 4" THROUGH 15", AND ASTM F-879 FOR 15" THROUGH 27".
16. **WATER PIPE:** ALL WATER MAINS 4 INCH THROUGH 12 INCH SHALL BE C-900 (SDR-18). WATER MAINS 14 INCH THROUGH 36 INCH SHALL BE C -905 (SDR – 18). WATER LINES LESS THAN 4" SHALL BE TYPE K COPPER.

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STATE OF TEXAS
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LICENSED
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12/15/17

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NO.	REVISION	BY	DATE

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BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

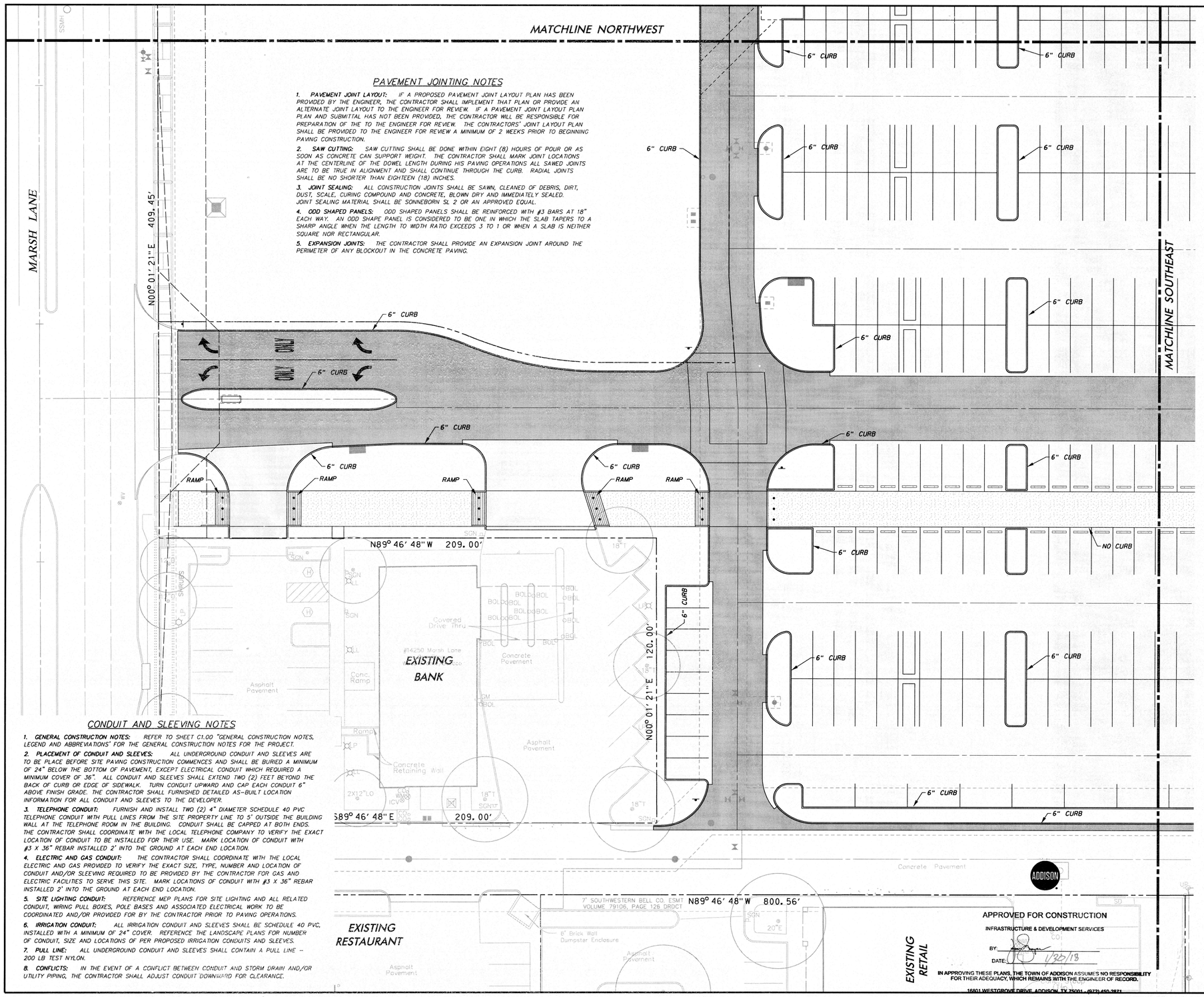
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

UTILITY PLAN
NORTHWEST

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C5.04

BROOKHAVEN VILLAGE SHOPPING CENTER – PROJECT NO. 5134-01

TOWN PROJECT # 17-06



PAVEMENT JOINTING NOTES

1. **PAVEMENT JOINT LAYOUT:** IF A PROPOSED PAVEMENT JOINT LAYOUT PLAN HAS BEEN PROVIDED BY THE ENGINEER, THE CONTRACTOR SHALL IMPLEMENT THAT PLAN OR PROVIDE AN ALTERNATE JOINT LAYOUT TO THE ENGINEER FOR REVIEW. IF A PAVEMENT JOINT LAYOUT PLAN PLAN AND SUBMITTAL HAS NOT BEEN PROVIDED, THE CONTRACTOR WILL BE RESPONSIBLE FOR PREPARATION OF THE TO THE ENGINEER FOR REVIEW. THE CONTRACTORS' JOINT LAYOUT PLAN SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW A MINIMUM OF 2 WEEKS PRIOR TO BEGINNING PAVING CONSTRUCTION.
2. **SAW CUTTING:** SAW CUTTING SHALL BE DONE WITHIN EIGHT (8) HOURS OF POUR OR AS SOON AS CONCRETE CAN SUPPORT WEIGHT. THE CONTRACTOR SHALL MARK JOINT LOCATIONS AT THE CENTERLINE OF THE DOWEL LENGTH DURING HIS PAVING OPERATIONS ALL SAWED JOINTS ARE TO BE TRUE IN ALIGNMENT AND SHALL CONTINUE THROUGH THE CURB. RADIAL JOINTS SHALL BE NO SHORTER THAN EIGHTEEN (18) INCHES.
3. **JOINT SEALING:** ALL CONSTRUCTION JOINTS SHALL BE SAWN, CLEANED OF DEBRIS, DIRT, DUST, SCALE, CURING COMPOUND AND CONCRETE, BLOWN DRY AND IMMEDIATELY SEALED. JOINT SEALING MATERIAL SHALL BE SONNEBORN SL 2 OR AN APPROVED EQUAL.
4. **ODD SHAPED PANELS:** ODD SHAPED PANELS SHALL BE REINFORCED WITH #3 BARS AT 18" EACH WAY. AN ODD SHAPE PANEL IS CONSIDERED TO BE ONE IN WHICH THE SLAB TAPERS TO A SHARP ANGLE WHEN THE LENGTH TO WIDTH RATIO EXCEEDS 3 TO 1 OR WHEN A SLAB IS NEITHER SQUARE NOR RECTANGULAR.
5. **EXPANSION JOINTS:** THE CONTRACTOR SHALL PROVIDE AN EXPANSION JOINT AROUND THE PERIMETER OF ANY BLOCKOUT IN THE CONCRETE PAVING.

CONDUIT AND SLEEVING NOTES

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PAVING NOTES

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3. **SUBGRADE PREPARATION:** PREPARATION OF SUBGRADE UNDER PAVED AREAS SHALL BE PREFORMED IN ACCORDANCE WITH THE GOVERNING AUTHORITIES' SPECIFICATIONS OR THE GEOTECHNICAL REPORT. THE MORE RESTRICTIVE REQUIREMENTS SHALL APPLY.

   PREPARATION OF THE SUBGRADE FOR PAVING WITHIN RIGHT-OF-WAY, ACCESS EASEMENTS AND/OR FIRE LANES SHALL NOT BE INITIATED UNTIL ALL TESTING OF UNDERGROUND UTILITIES HAS BEEN COMPLETED AND VERIFIED TO MEET THE GOVERNING AUTHORITIES' SPECIFICATIONS AND AUTHORIZATION TO PROCEED HAS BEEN RECEIVED FROM THE INSPECTOR.

   PAVEMENT SUBGRADE SHALL NOT BE ALLOWED TO RETAIN WATER. WET MATERIAL SHALL BE REMOVED TO DRY, SOUND MATERIAL AND APPROPRIATE DENSITY ACHIEVED PRIOR TO PAVING OPERATIONS.
4. **PROOF-ROLL SUBGRADE:** THE SUBGRADE SHALL BE PROOF-ROLLED WITH HEAVY PNEUMATIC EQUIPMENT. ANY SOFT OR PUMPING AREAS SHALL BE EXCAVATED TO FIRM SUBGRADE ANDBACKFILLED AND RE-COMPACTED IN CONFORMANCE WITH THE GEOTECHNICAL REPORT.
5. **HYDRATED LIME:** HYDRATED LIME (IF REQUIRED) SHALL MEET THE REQUIREMENTS OF TXDOT ITEM 260, LIME TREATMENT USED AS SUBGRADE. LIME SHALL BE APPLIED AT THE RATE OF 6% BY WEIGHT, THOROUGHLY MIXED AND BLENDED WITH THE TOP 6" OF SUBGRADE AND UNIFORMLY COMPACTED TO A MINIMUM OF 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.
6. **SAND CUSHION PROHIBITED:** THE USE OF SAND CUSHION UNDER PAVEMENT, INCLUDING SIDEWALKS, IS STRICTLY PROHIBITED.
7. **REINFORCING BARS:** ALL REINFORCING BARS SHALL BE GRADE 40 KSI DEFORMED REINFORCING STEEL. SIZE AND SPACING SHALL BE IN ACCORDANCE WITH THE DETAILS.
8. **BAR CHAIRS:** 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 SUPPORT.
9. **CONNECTION TO EXISTING REINFORCED PAVEMENT:** WHERE PROPOSED PAVEMENT TO EXISTING PAVEMENT IS TO BE CONSTRUCTED BY THE CONTRACTOR, AT LEAST 15" OF REINFORCING STEEL SHALL BE EXPOSED FROM THE EXISTING PAVEMENT, OR THE CONTRACTOR SHALL PROVIDE HORIZONTAL DOWEL BARS PER THE DETAILS.
10. **TEMPERATURE CONDITIONS FOR CONCRETE PLACEMENT:** CONCRETE SHALL NOT BE PLACED WHEN THE TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT AND FALLING, BUT MAY BE PLACED WHEN TEMPERATURE IS ABOVE 35 DEGREES FAHRENHEIT AND RISING. THE TEMPERATURE READING SHALL BE TAKEN IN THE SHADE AND AWAY FROM ARTIFICIAL HEAT.
11. **CONCRETE PAVEMENT CURING:** 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 TEXAS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS ITEM #526.
12. **TESTING:** SAMPLES FOR STRENGTH TESTS OF THE CONCRETE PAVEMENT WILL BE TAKEN BY THE GEOTECHNICAL ENGINEER TO VERIFY DESIGN STRENGTH. PAVEMENT AREAS FOUND TO BE DEFICIENT IN STRENGTH SHALL BE REMOVED AND REPLACED SOLELY AT THE EXPENSE OF THE CONTRACTOR. THE GEOTECHNICAL ENGINEER SHALL ALSO RANDOMLY CORE THE PAVEMENT TO VERIFY THE THICKNESS OF CONCRETE. ANY AREA FOUND TO BE DEFICIENT IN THICKNESS SHALL BE REMOVED AND REPLACED SOLELY AT THE EXPENSE OF THE CONTRACTOR.
13. **SIDEWALKS AND RAMPS:** CONSTRUCTION OF SIDEWALKS, WHEELCHAIR RAMPS AND ACCESSIBLE ROUTES SHALL BE IN ACCORDANCE WITH THE TEXAS ACCESSIBILITY STANDARDS (TAS) AND THE AMERICANS DISABILITY ACT (ADA).
14. **PAVEMENT MARKINGS:** PAVEMENT MARKINGS SHALL BE PROVIDED IN ACCORDANCE WITH THE TEXAS "UNIFORM TRAFFIC MANUAL FOR PAVEMENT MARKINGS". FIRE LANES SHALL BE STRIPED IN ACCORDANCE WITH THE GOVERNING AUTHORITIES' REQUIREMENTS. ALL HANDICAP SYMBOLS, SIGNAGE AND PAVEMENT MARKINGS SHALL COMPLY WITH TAS AND ADA STANDARDS.

LEGEND

HEAVY DUTY PAVEMENT
8" 4500 PSI CONCRETE PVMT. W/ #3 BARS @ 18" O.C.E.W. ON 6" COMPACTED SUBGRADE TO 98% AT OR ABOVE OPTIMUM MOISTURE CONTENT. (ASTM D 698)

STANDARD DUTY PAVEMENT
6" 3600 PSI CONCRETE PVMT. W/ #3 BARS @ 18" O.C.E.W. ON 6" COMPACTED SUBGRADE TO 95% AT OR ABOVE OPTIMUM MOISTURE CONTENT. (ASTM D 698)

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

NORTH

0 10 20 30 40
GRAPHIC SCALE IN FEET
SCALE: 1"=20'

BRUCE F. DUNNE
62654
LICENSED PROFESSIONAL ENGINEER
12/15/17

NO.	REVISION	BY	DATE

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BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

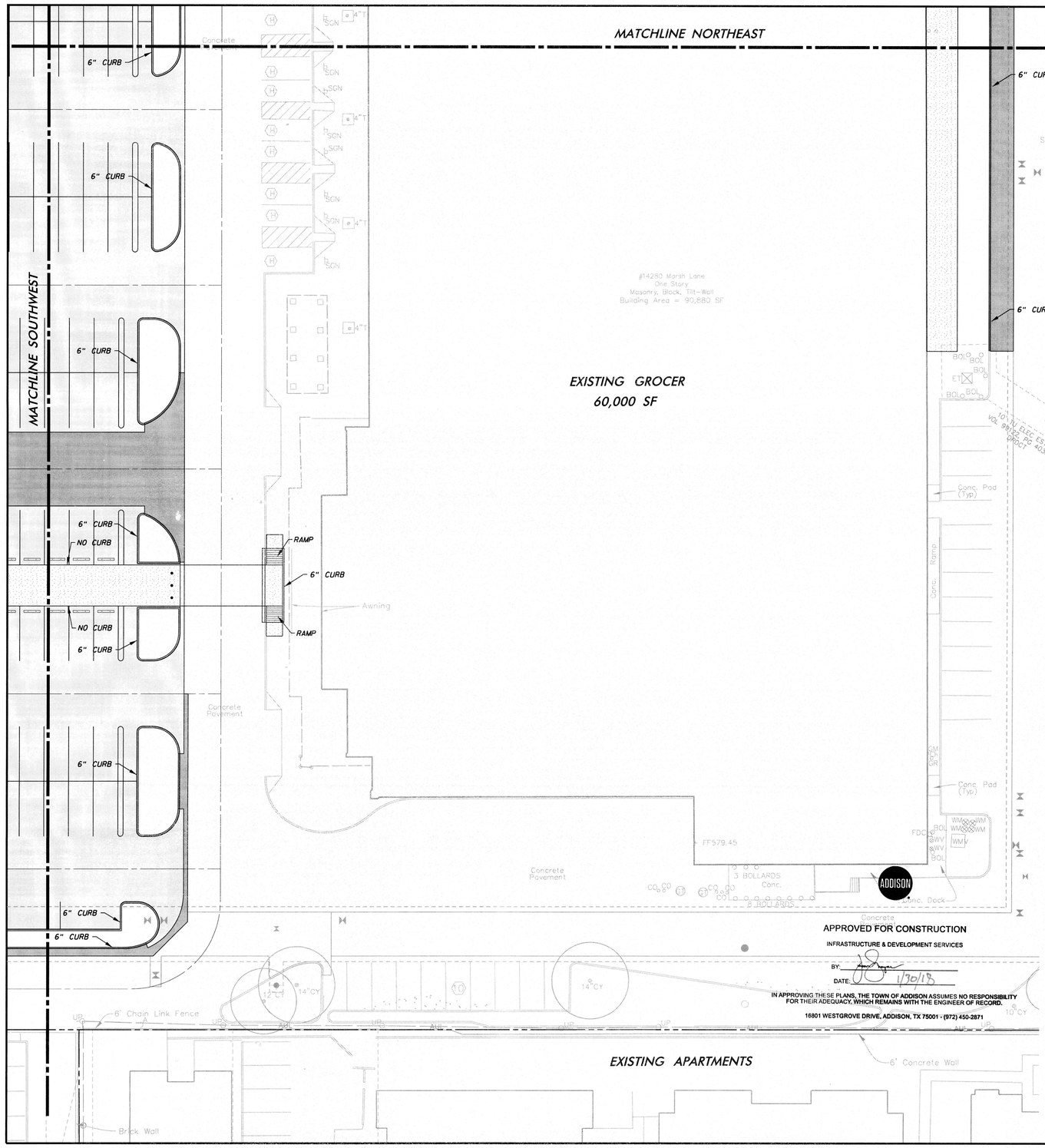
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

PAVING PLAN
SOUTHWEST

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C6.01

BROOKHAVEN VILLAGE SHOPPING CENTER – PROJECT NO. 5134-01

TOWN PROJECT # 17-06



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2. **SAW CUTTING:** SAW CUTTING SHALL BE DONE WITHIN EIGHT (8) HOURS OF POUR OR AS SOON AS CONCRETE CAN SUPPORT WEIGHT. THE CONTRACTOR SHALL MARK JOINT LOCATIONS AT THE CENTERLINE OF THE DOWEL LENGTH DURING HIS PAVING OPERATIONS ALL SAWED JOINTS ARE TO BE TRUE IN ALIGNMENT AND SHALL CONTINUE THROUGH THE CURB. RADIAL JOINTS SHALL BE NO SHORTER THAN EIGHTEEN (18) INCHES.
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3. **TELEPHONE CONDUIT:** FURNISH AND INSTALL TWO (2) 4" DIAMETER SCHEDULE 40 PVC TELEPHONE CONDUIT WITH PULL LINES FROM THE SITE PROPERTY LINE TO 5' OUTSIDE THE BUILDING WALL AT THE TELEPHONE ROOM IN THE BUILDING. CONDUIT SHALL BE CAPPED AT BOTH ENDS. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL TELEPHONE COMPANY TO VERIFY THE EXACT LOCATION OF CONDUIT TO BE INSTALLED FOR THEIR USE. MARK LOCATION OF CONDUIT WITH #3 X 36" REBAR INSTALLED 2' INTO THE GROUND AT EACH END LOCATION.
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7. **PULL LINE:** ALL UNDERGROUND CONDUIT AND SLEEVES SHALL CONTAIN A PULL LINE – 200 LB TEST NYLON.
8. **CONFLICTS:** IN THE EVENT OF A CONFLICT BETWEEN CONDUIT AND STORM DRAIN AND/OR UTILITY PIPING, THE CONTRACTOR SHALL ADJUST CONDUIT DOWNWARD FOR CLEARANCE.

LEGEND

HEAVY DUTY PAVEMENT
8" 4500 PSI CONCRETE PVMT. W/ #3 BARS @ 18" O.C.E.W. ON 6" COMPACTED SUBGRADE TO 98% AT OR ABOVE OPTIMUM MOISTURE CONTENT. (ASTM D 698)

STANDARD DUTY PAVEMENT
6" 3600 PSI CONCRETE PVMT. W/ #3 BARS @ 18" O.C.E.W. ON 6" COMPACTED SUBGRADE TO 95% AT OR ABOVE OPTIMUM MOISTURE CONTENT. (ASTM D 698)

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

NORTH

0 10 20 30 40
GRAPHIC SCALE IN FEET
SCALE: 1"=20'

BRUCE F. DUNN 62654 LICENSED PROFESSIONAL ENGINEER
12/5/17

NO.	REVISION	BY	DATE

icon Consulting Engineers, Inc. 2840 W. Southlake Blvd., Suite 110
Civil Engineers - Designers - Planners Southlake, Tx 76092 (817) 552-6210
Engineering Firm Registration Number F-9007

BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

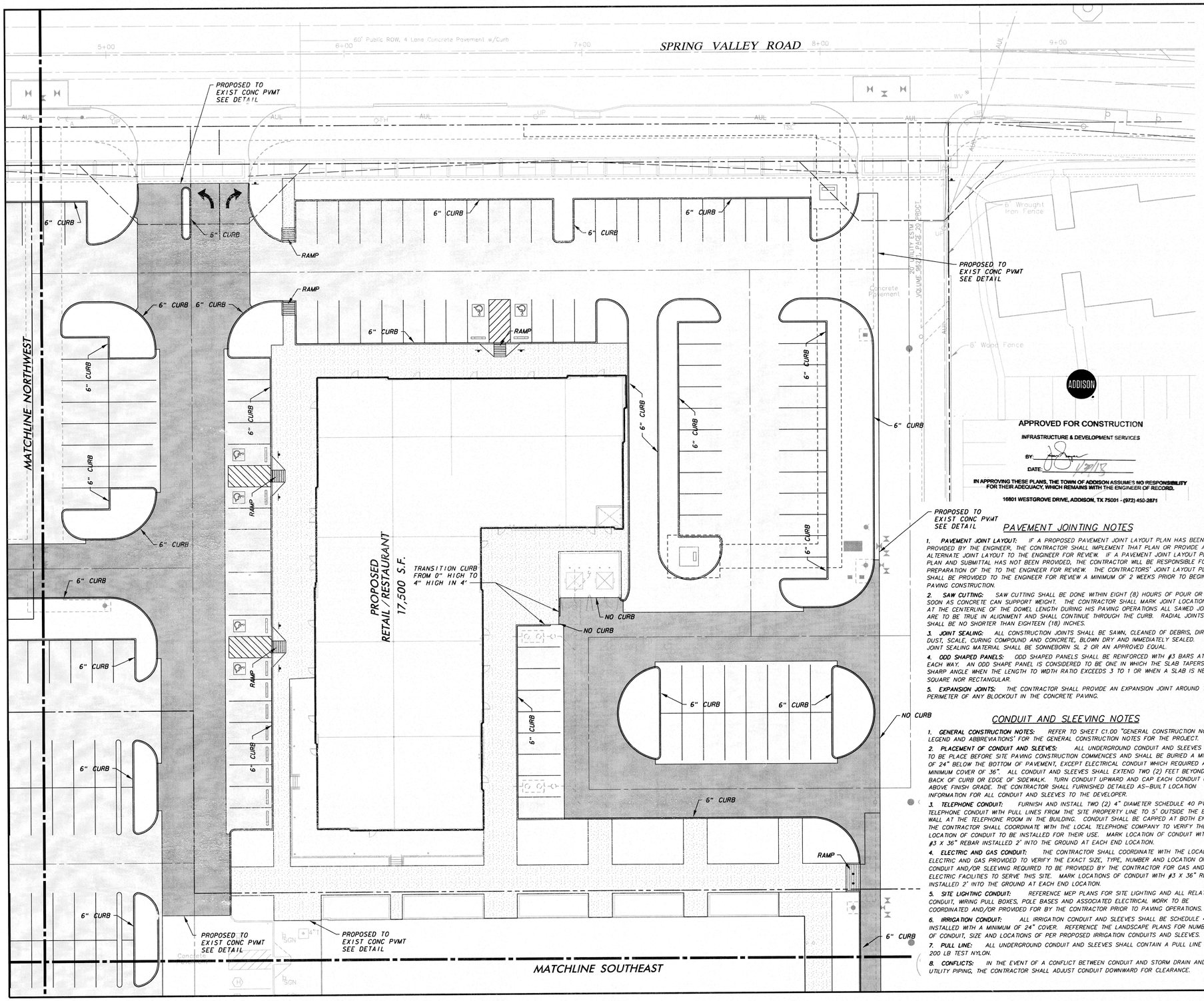
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

PAVING PLAN
SOUTHEAST

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C6.02

BROOKHAVEN VILLAGE SHOPPING CENTER – PROJECT NO. 5134-01

TOWN PROJECT # 17-06



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ADDISON

APPROVED FOR CONSTRUCTION

INFRASTRUCTURE & DEVELOPMENT SERVICES

BY: _____

DATE: 1/31/17

IN APPROVING THESE PLANS, THE TOWN OF ADDISON ASSUMES NO RESPONSIBILITY FOR THEIR ADEQUACY, WHICH REMAINS WITH THE ENGINEER OF RECORD.

16801 WESTGROVE DRIVE, ADDISON, TX 75001 - (972) 450-2871

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NORTH

0 10 20 30 40
GRAPHIC SCALE IN FEET
SCALE: 1"=20'

BRUCE F. DUNNE 62654 LICENSED PROFESSIONAL ENGINEER 12/15/17

NO.	REVISION	BY	DATE

icon Consulting Engineers, Inc. 2840 W. Southlake Blvd., Suite 110
Civil Engineers - Designers - Planners Southlake, Tx 76092 (817) 552-6210
Engineering Firm Registration Number F-9007

BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

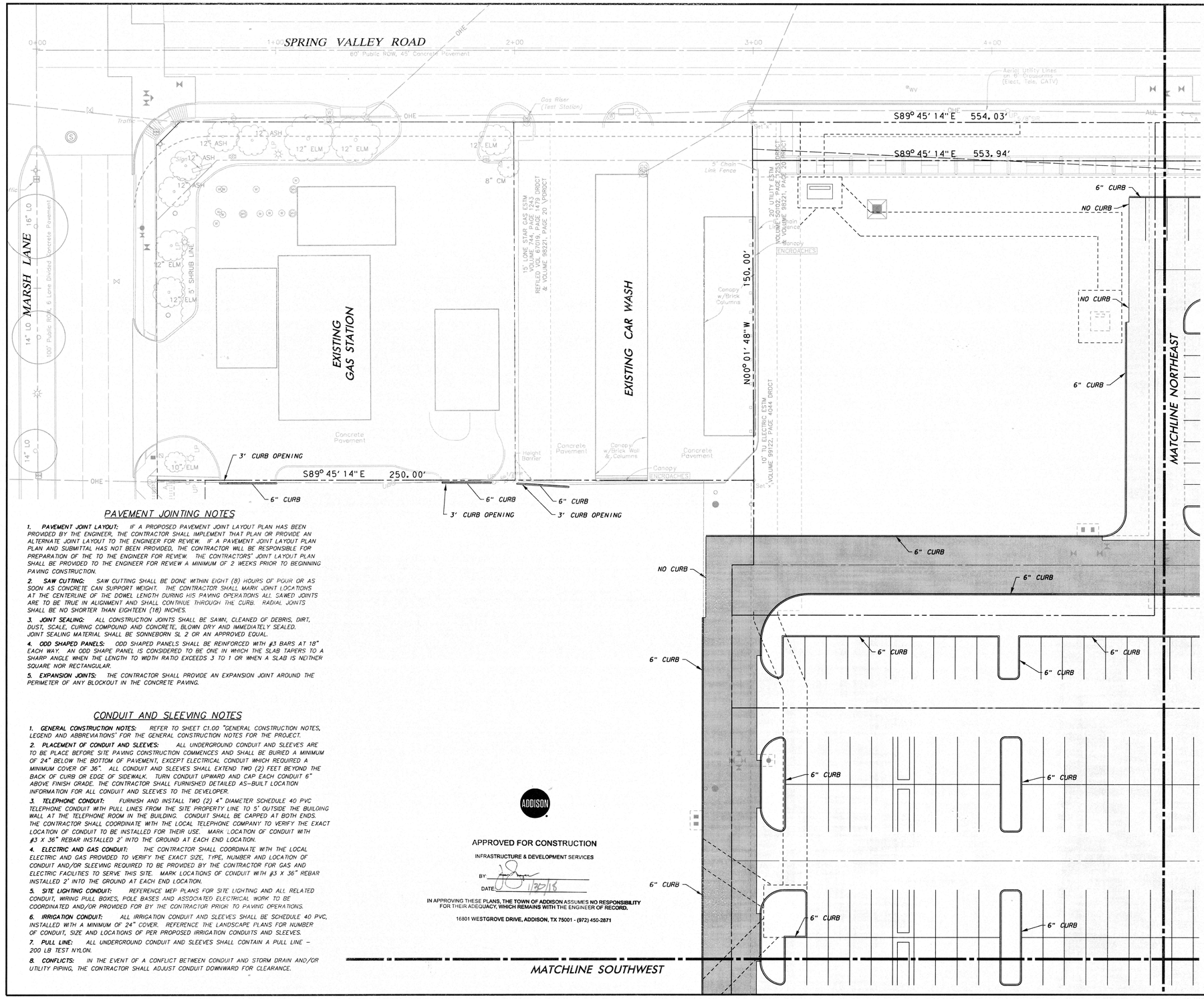
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

PAVING PLAN
NORTHEAST

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C6.03

BROOKHAVEN VILLAGE SHOPPING CENTER - PROJECT NO. 5134-01

TOWN PROJECT # 17-06



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13. **SIDEWALKS AND RAMPS:** CONSTRUCTION OF SIDEWALKS, WHEELCHAIR RAMPS AND ACCESSIBLE ROUTES SHALL BE IN ACCORDANCE WITH THE TEXAS ACCESSIBILITY STANDARDS (TAS) AND THE AMERICANS DISABILITY ACT (ADA).
14. **PAVEMENT MARKINGS:** PAVEMENT MARKINGS SHALL BE PROVIDED IN ACCORDANCE WITH THE TEXAS "UNIFORM TRAFFIC MANUAL FOR PAVEMENT MARKINGS". FIRE LANES SHALL BE STRIPED IN ACCORDANCE WITH THE GOVERNING AUTHORITIES' REQUIREMENTS. ALL HANDICAP SYMBOLS, SIGNAGE AND PAVEMENT MARKINGS SHALL COMPLY WITH TAS AND ADA STANDARDS.

PAVEMENT JOINTING NOTES

1. **PAVEMENT JOINT LAYOUT:** IF A PROPOSED PAVEMENT JOINT LAYOUT PLAN HAS BEEN PROVIDED BY THE ENGINEER, THE CONTRACTOR SHALL IMPLEMENT THAT PLAN OR PROVIDE AN ALTERNATE JOINT LAYOUT TO THE ENGINEER FOR REVIEW. IF A PAVEMENT JOINT LAYOUT PLAN PLAN AND SUBMITTAL HAS NOT BEEN PROVIDED, THE CONTRACTOR WILL BE RESPONSIBLE FOR PREPARATION OF THE TO THE ENGINEER FOR REVIEW. THE CONTRACTORS' JOINT LAYOUT PLAN SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW A MINIMUM OF 2 WEEKS PRIOR TO BEGINNING PAVING CONSTRUCTION.
2. **SAW CUTTING:** SAW CUTTING SHALL BE DONE WITHIN EIGHT (8) HOURS OF POUR OR AS SOON AS CONCRETE CAN SUPPORT WEIGHT. THE CONTRACTOR SHALL MARK JOINT LOCATIONS AT THE CENTERLINE OF THE DOWEL LENGTH DURING HIS PAVING OPERATIONS ALL SAWED JOINTS ARE TO BE TRUE IN ALIGNMENT AND SHALL CONTINUE THROUGH THE CURB. RADIAL JOINTS SHALL BE NO SHORTER THAN EIGHTEEN (18) INCHES.
3. **JOINT SEALING:** ALL CONSTRUCTION JOINTS SHALL BE SAWN, CLEANED OF DEBRIS, DIRT, DUST, SCALE, CURING COMPOUND AND CONCRETE, BLOWN DRY AND IMMEDIATELY SEALED. JOINT SEALING MATERIAL SHALL BE SONNEBORN SL 2 OR AN APPROVED EQUAL.
4. **ODD SHAPED PANELS:** ODD SHAPED PANELS SHALL BE REINFORCED WITH #3 BARS AT 18" EACH WAY. AN ODD SHAPE PANEL IS CONSIDERED TO BE ONE IN WHICH THE SLAB TAPERS TO A SHARP ANGLE WHEN THE LENGTH TO WIDTH RATIO EXCEEDS 3 TO 1 OR WHEN A SLAB IS NEITHER SQUARE NOR RECTANGULAR.
5. **EXPANSION JOINTS:** THE CONTRACTOR SHALL PROVIDE AN EXPANSION JOINT AROUND THE PERIMETER OF ANY BLOCKOUT IN THE CONCRETE PAVING.

CONDUIT AND SLEEVING NOTES

1. **GENERAL CONSTRUCTION NOTES:** REFER TO SHEET C1.00 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THE PROJECT.
2. **PLACEMENT OF CONDUIT AND SLEEVES:** ALL UNDERGROUND CONDUIT AND SLEEVES ARE TO BE PLACE BEFORE SITE PAVING CONSTRUCTION COMMENCES AND SHALL BE BURIED A MINIMUM OF 24" BELOW THE BOTTOM OF PAVEMENT, EXCEPT ELECTRICAL CONDUIT WHICH REQUIRED A MINIMUM COVER OF 36". ALL CONDUIT AND SLEEVES SHALL EXTEND TWO (2) FEET BEYOND THE BACK OF CURB OR EDGE OF SIDEWALK. TURN CONDUIT UPWARD AND CAP EACH CONDUIT 6" ABOVE FINISH GRADE. THE CONTRACTOR SHALL FURNISHED DETAILED AS-BUILT LOCATION INFORMATION FOR ALL CONDUIT AND SLEEVES TO THE DEVELOPER.
3. **TELEPHONE CONDUIT:** FURNISH AND INSTALL TWO (2) 4" DIAMETER SCHEDULE 40 PVC TELEPHONE CONDUIT WITH PULL LINES FROM THE SITE PROPERTY LINE TO 5' OUTSIDE THE BUILDING WALL AT THE TELEPHONE ROOM IN THE BUILDING. CONDUIT SHALL BE CAPPED AT BOTH ENDS. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL TELEPHONE COMPANY TO VERIFY THE EXACT LOCATION OF CONDUIT TO BE INSTALLED FOR THEIR USE. MARK LOCATION OF CONDUIT WITH #3 X 36" REBAR INSTALLED 2' INTO THE GROUND AT EACH END LOCATION.
4. **ELECTRIC AND GAS CONDUIT:** THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL ELECTRIC AND GAS PROVIDED TO VERIFY THE EXACT SIZE, TYPE, NUMBER AND LOCATION OF CONDUIT AND/OR SLEEVING REQUIRED TO BE PROVIDED BY THE CONTRACTOR FOR GAS AND ELECTRIC FACILITIES TO SERVE THIS SITE. MARK LOCATIONS OF CONDUIT WITH #3 X 36" REBAR INSTALLED 2' INTO THE GROUND AT EACH END LOCATION.
5. **SITE LIGHTING CONDUIT:** REFERENCE MEP PLANS FOR SITE LIGHTING AND ALL RELATED CONDUIT, WIRING PULL BOXES, POLE BASES AND ASSOCIATED ELECTRICAL WORK TO BE COORDINATED AND/OR PROVIDED FOR BY THE CONTRACTOR PRIOR TO PAVING OPERATIONS.
6. **IRRIGATION CONDUIT:** ALL IRRIGATION CONDUIT AND SLEEVES SHALL BE SCHEDULE 40 PVC, INSTALLED WITH A MINIMUM OF 24" COVER. REFERENCE THE LANDSCAPE PLANS FOR NUMBER OF CONDUIT, SIZE AND LOCATIONS OF PER PROPOSED IRRIGATION CONDUITS AND SLEEVES.
7. **PULL LINE:** ALL UNDERGROUND CONDUIT AND SLEEVES SHALL CONTAIN A PULL LINE – 200 LB TEST NYLON.
8. **CONFLICTS:** IN THE EVENT OF A CONFLICT BETWEEN CONDUIT AND STORM DRAIN AND/OR UTILITY PIPING, THE CONTRACTOR SHALL ADJUST CONDUIT DOWNWARD FOR CLEARANCE.

LEGEND

HEAVY DUTY PAVEMENT
8" 4500 PSI CONCRETE PVMT. W/ #3 BARS @ 18" O.C.E.W. ON 6" COMPACTED SUBGRADE TO 98% AT OR ABOVE OPTIMUM MOISTURE CONTENT. (ASTM D 698)

STANDARD DUTY PAVEMENT
6" 3600 PSI CONCRETE PVMT. W/ #3 BARS @ 18" O.C.E.W. ON 6" COMPACTED SUBGRADE TO 95% AT OR ABOVE OPTIMUM MOISTURE CONTENT. (ASTM D 698)

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

APPROVED FOR CONSTRUCTION
INFRASTRUCTURE & DEVELOPMENT SERVICES
BY: _____
DATE: 12/7/18

IN APPROVING THESE PLANS, THE TOWN OF ADDISON ASSUMES NO RESPONSIBILITY FOR THEIR ADEQUACY, WHICH REMAINS WITH THE ENGINEER OF RECORD.

16801 WESTGROVE DRIVE, ADDISON, TX 75001 - (972) 450-2871

NORTH
0 10 20 30 40
GRAPHIC SCALE IN FEET
SCALE: 1"=20'

STATE OF TEXAS
BRUCE F. BUNE
62654
LICENSED PROFESSIONAL ENGINEER
12/5/17

NO.	REVISION	BY	DATE

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Civil Engineers - Designers - Planners Southlake, Tx 76092 (817) 552-6210
Engineering Firm Registration Number F-9007

BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

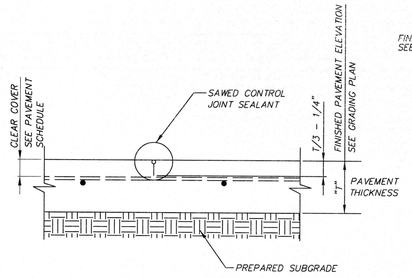
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

PAVING PLAN
NORTHWEST

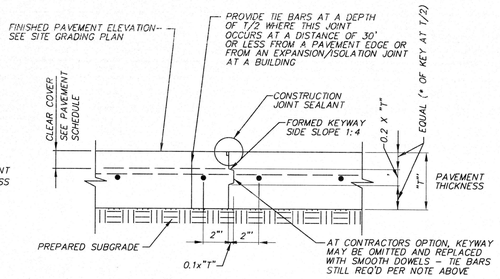
DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C6.04

BROOKHAVEN VILLAGE SHOPPING CENTER – PROJECT NO. 5134-01

TOWN PROJECT # 17-06



LONGITUDINAL CONTROL JOINT
NOT TO SCALE



KEYED LONGITUDINAL CONSTRUCTION JOINT
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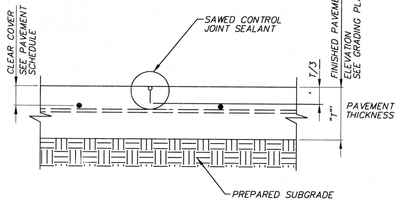

TRANSVERSE CONTROL JOINT
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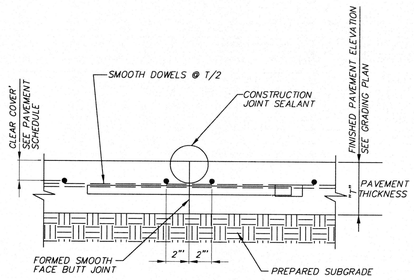

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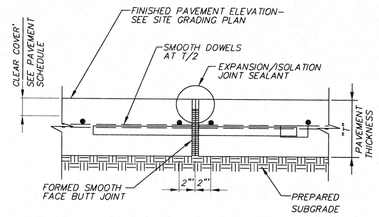

TRANSVERSE EXPANSION JOINT
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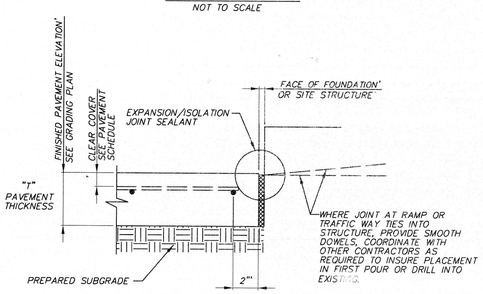

EXPANSION / ISOLATION JOINT AT STRUCTURES
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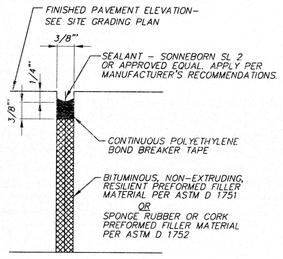

EXPANSION / ISOLATION JOINT SEALANT
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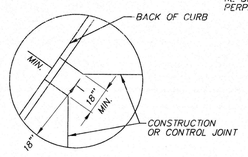

TYPICAL AT ALL ANGLED JOINT TERMINATIONS
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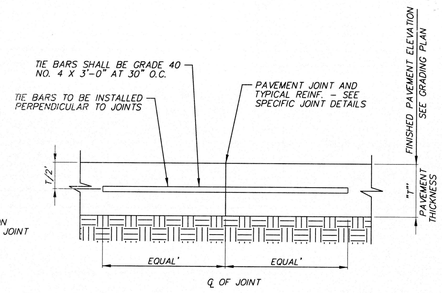

TIE BAR
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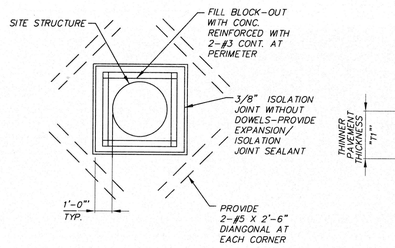

JOINT TREATMENT AT SITE STRUCTURES
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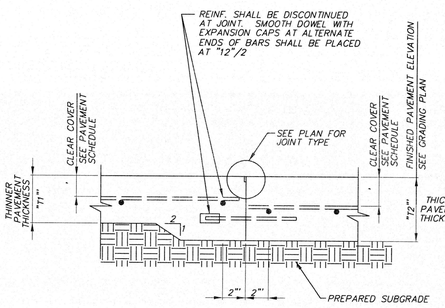

PAVEMENT DEPTH CHANGE/ ISOLATION JOINT
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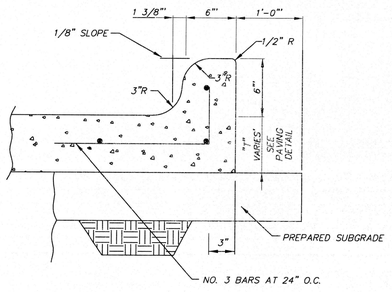

6" INTEGRAL CURB
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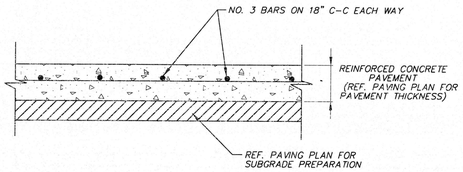

TYPICAL PAVEMENT SECTION
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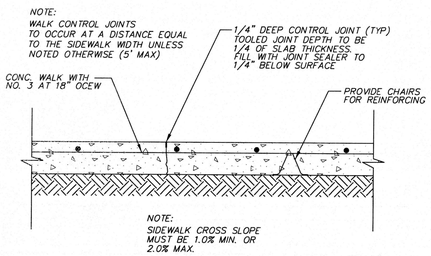

SIDEWALK CONTROL JOINT
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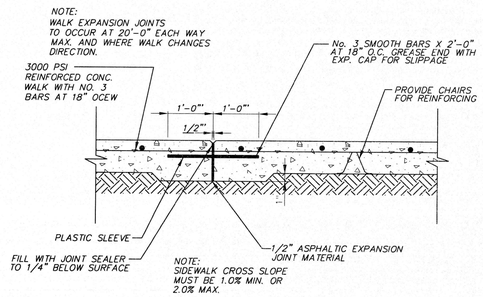
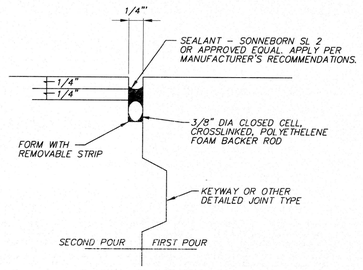


SIDEWALK EXPANSION JOINT
NOT TO SCALE



CONSTRUCTION JOINT SEALANT
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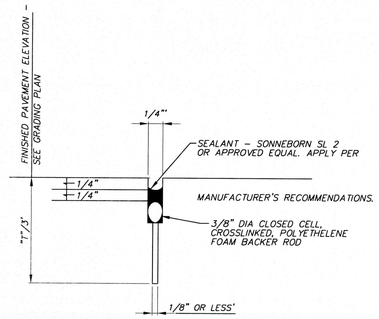

SAWED CONTROL JOINT SEALANT
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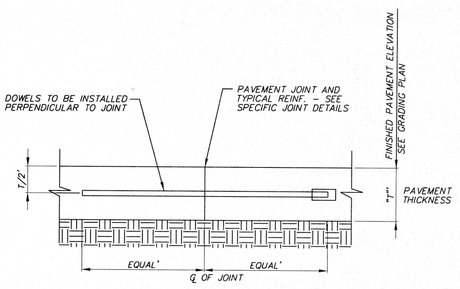
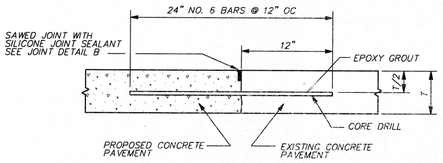


SMOOTH DOWEL
NOT TO SCALE



PROPOSED TO EXISTING CONCRETE PAVEMENT
NOT TO SCALE

ADDISON

APPROVED FOR CONSTRUCTION
INFRASTRUCTURE & DEVELOPMENT SERVICES
BY:
DATE: 12/5/17

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STATE OF TEXAS
BRUCE E. RUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
12/5/17

NO.	REVISION	BY	DATE

icon Consulting Engineers, Inc. 2840 W. Southlake Blvd., Suite 110
Civil Engineers - Designers - Planners Southlake, Tx 76092 (817) 552-6210
Engineering Firm Registration Number F-9007

BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

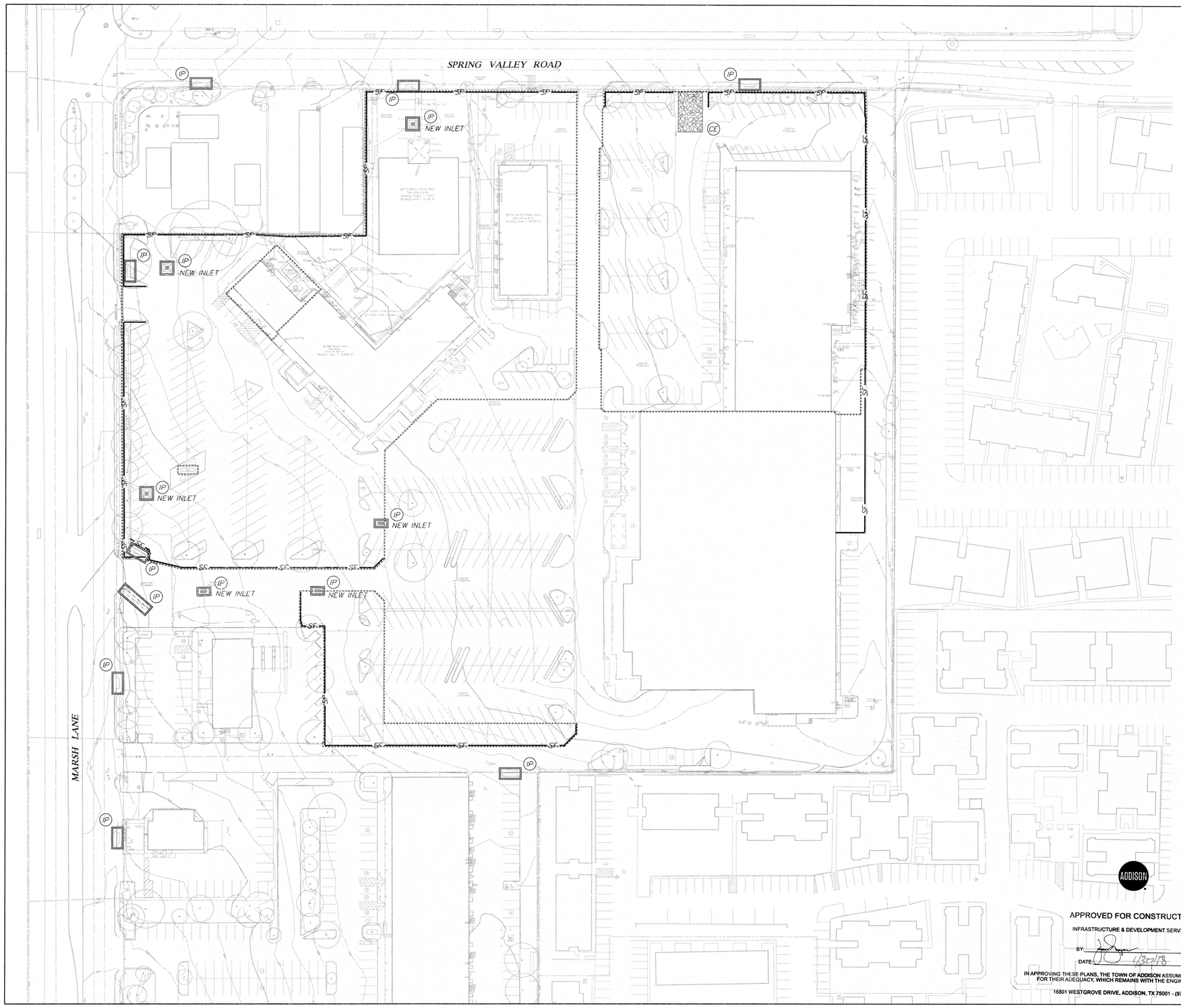
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

PAVING DETAILS

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C6.05

BROOKHAVEN VILLAGE SHOPPING CENTER - PROJECT NO. 5134-01

TOWN PROJECT # 17-06



EROSION CONTROL NOTES

1. **GENERAL CONSTRUCTION NOTES:** REFER TO SHEET 3 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THE PROJECT.

2. **SWPPP COMPLIANCE:** THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH THE CONDITIONS OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) WHILE CONDUCTING HIS ACTIVITIES ON THIS PROJECT. IN ADDITION TO CONSTRUCTING THOSE ITEMS INDICATED ON THE PLAN SHEETS, COMPLIANCE WITH THE SWPPP INCLUDES CONFORMANCE TO CERTAIN PRACTICES AND PROCEDURES (IDENTIFIED IN THE (SWPPP) DURING PROJECT CONSTRUCTION. THE SWPPP PLANS AND DOCUMENTS ARE PROVIDED FOR THE SOLE BENEFIT OF THE CONTRACTOR AS A PLANNING TOOL FOR COMPLYING WITH THE ENVIRONMENTAL REGULATIONS OF THIS PROJECT. THE CONTRACTOR IS EXPECTED TO PROVIDE, EXPAND, SUBMIT AND MONITOR A FULL COMPREHENSIVE SWPPP BEYOND WHAT IS HEREIN PROVIDED.

3. **BMP INSTALLATION:** PRIOR TO COMMENCING GRADING OPERATIONS, THE CONTRACTOR SHALL INSTALL ALL SWPPP MEASURES AND DEVICES AS INDICATED ON THE EROSION & SEDIMENT CONTROL PLAN. ALL SWPPP MEASURES AND DEVICES SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND DETAILS SHOWN IN THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS CONSTRUCTION "BEST MANAGEMENT PRACTICES" (BMP) MANUAL, OR AS MODIFIED BY THE CONTRACT DOCUMENTS.

4. **CLEANING, REPAIR AND MAINTENANCE:** THE CONTRACTOR SHALL REFER TO THE SWPPP FOR SEQUENCING OF CONSTRUCTION, INSTALLATION OF NEW EROSION CONTROL DEVICES AND CLEANING, REPAIR AND MAINTENANCE OF EXISTING EROSION CONTROL DEVICES. THE CONTRACTOR SHALL REVISE, RELOCATE AND/OR ADD DEVICES TO REFLECT ACTUAL SITE CONDITIONS AND TO ACCOMMODATE LOCATIONS FOR CONSTRUCTION TRAILER AREAS, STORAGE AREAS, FUELING AREAS, TOILETS, TRASH RECEPTACLES AND WASHOUT AREAS. ANY ACCIDENTAL RELEASE OF SEDIMENT OR POLLUTANTS FROM THE SITE SHALL BE CLEANED BY THE CONTRACTOR.

5. **SITE ENTRY/EXIT LOCATIONS:** SITE ENTRY AND EXIT LOCATIONS SHALL BE MAINTAINED BY THE CONTRACTOR IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAYS. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAYS MUST BE REMOVED IMMEDIATELY. WHEN WASHING OF VEHICLES IS REQUIRED TO REMOVE SEDIMENT PRIOR TO ENTRANCE TO A PUBLIC ROADWAY, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN. ALL FINES IMPOSED FOR TRACKING ONTO PUBLIC ROADS SHALL BE PAID BY THE CONTRACTOR.

6. **PROTECTION OF ADJACENT PROPERTY:** CONTRACTOR SHALL ASSUME FULL LIABILITY FOR DAMAGE TO ADJACENT PROPERTIES AND/OR PUBLIC RIGHT-OF-WAY RESULTING FROM FAILURE TO FULLY IMPLEMENT AND EXECUTE ALL EROSION CONTROL METHODS AND PROCEDURES SHOWN AND NOTED IN THE PLANS AND SWPPP.

7. **RE-VEGETATION:** AT THE COMPLETION OF PAVING AND FINAL GRADING OPERATIONS, ALL DISTURBED AREAS SHALL BE VEGETATED IN ACCORDANCE WITH THE LANDSCAPE ARCHITECTS' PLANS. IN AREAS NOT COVERED BY LANDSCAPE PLAN, THE CONTRACTOR SHALL PROVIDE HYDROMULCH SEEDING AND/OR SODDING FOR ALL DISTURBED AREAS (NOT DESIGNATED TO BE PAVED) IN ACCORDANCE WITH ALL GOVERNING AUTHORITIES' SPECIFICATIONS.

8. **BMP REMOVAL:** THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL SEDIMENT BARRIERS AND INLET PROTECTION AFTER VEGETATION HAS BEEN COMPLETED AND ALL AREAS OF THE SITE HAVE BEEN STABILIZED AND ACCEPTED BY THE GOVERNING AUTHORITIES AND THE DEVELOPER.

9. **ADDITIONAL:** AS NEW FACILITIES COME ONLINE, ADD ADDITIONAL BMP/SCM. CONTRACTOR TO COORDINATE WITH THE BUILDING CONTRACTOR TO ENSURE ALL BMP DEVICES ARE SECURE AND ALL PROPER PROTECTIONS ARE BEING TAKEN BETWEEN THE TWO SITES.

LEGEND

- LIMITS OF DISTURBANCE ----------
- INLET PROTECTION (IP)
- FINISHED SLOPE ——→
- SPOT ELEVATION (TOP OF GROUND/PAVEMENT) × 525.80
- SILT FENCE —— SF ——
- STABILIZED CONSTRUCTION ENTRANCE (CE)

NORTH

0 25 50 75 100
GRAPHIC SCALE IN FEET
SCALE: 1"=50'

STATE OF TEXAS
BRUCE F. DUMM
52654
LICENSED
PROFESSIONAL ENGINEER
12/5/17

APPROVED FOR CONSTRUCTION
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BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

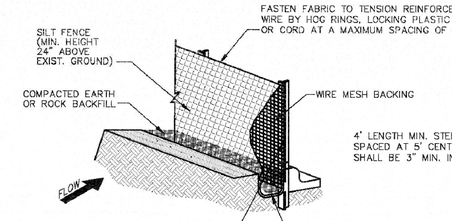
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

EROSION & SEDIMENT CONTROL PLAN

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C7.01

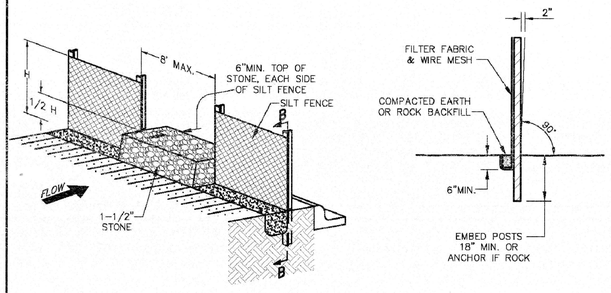
BROOKHAVEN VILLAGE SHOPPING CENTER – PROJECT NO. 5134-01

TOWN PROJECT # 17-06



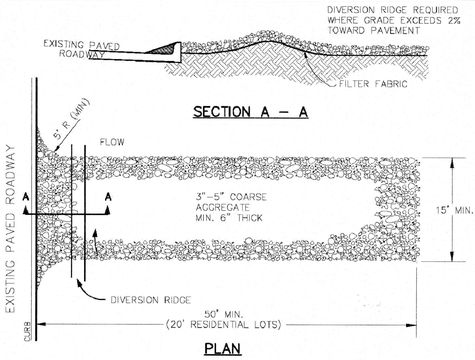
ISOMETRIC PLAN VIEW

N.T.S.



SILT FENCE
STONE OVERFLOW STRUCTURE

N.T.S.



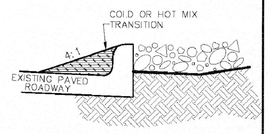
PLAN

TEMPORARY STONE CONSTRUCTION ENTRANCE/EXIT

N.T.S.

STABILIZED CONSTRUCTION ENTRANCE GENERAL NOTES:

1. WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AREA STABILIZED WITH CRUSHED STONE WITH DRAINAGE FLOWING AWAY FROM BOTH THE STREET AND THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES MUST BE REMOVED IMMEDIATELY.
3. THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
4. WHEN SEDIMENT HAS SUBSTANTIALLY CLOGGED THE VOID AREA BETWEEN THE ROCKS, THE AGGREGATE MAT MUST BE WASHED DOWN OR REPLACED. PERIODIC RE-GRADING AND TOP DRESSING WITH ADDITIONAL STONE MUST BE DONE TO KEEP THE EFFICIENCY OF THE ENTRANCE FROM DIMINISHING.



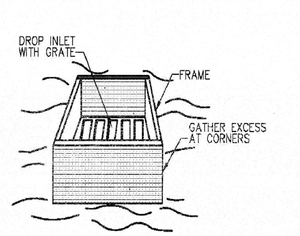
TRANSITION

EROSION CONTROL PLAN NOTES

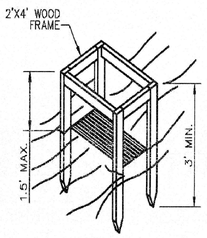
1. ALL OPERATORS AND/OR CONTRACTORS SHALL CONFORM TO THE TERMS AND CONDITIONS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ), TPDES GENERAL PERMIT NO. TXR 150000 ISSUED AND DATED MARCH 5, 2003.
2. THE NOTICE OF INTENT (NOI), AS REQUIRED BY THE GENERAL PERMIT, MUST BE PROPERLY DISPLAYED ON SITE AT ALL TIMES BY EACH OPERATOR.
3. ALL RELEASES OF THE REPORTABLE QUANTITIES OF HAZARDOUS SUBSTANCES SHALL BE REPORTED IMMEDIATELY TO THE FACILITY OPERATOR, EPA AND TCEQ.
4. QUALIFIED OPERATOR PERSONNEL MUST INSPECT THE SITE AT LEAST ONCE EVERY 14 DAYS AND WITHIN 24 HOURS OF A STORM EVENT OF 0.5 INCHES OR GREATER. AS AN ALTERNATIVE, AN INSPECTION CAN BE CONDUCTED ONCE EVERY SEVEN (7) CALENDAR DAYS ON A DEFINED DAY. A DECISION ON WHICH METHOD TO USE MUST BE DECIDED BEFORE WORK BEGINS AND MUST BE FOLLOWED THROUGHOUT THE PROJECT.
5. MODIFICATIONS TO THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE IMPLEMENTED AND BE IN-PLACE WITHIN A SEVEN CALENDAR DAY PERIOD.
6. IF ANY CONTRACTOR SEES A VIOLATION BY AN OPERATOR OR ANOTHER CONTRACTOR, THAT OPERATOR OR CONTRACTOR IN VIOLATION SHALL BE NOTIFIED AS WELL AS THE FACILITY OPERATOR.
7. EROSION CONTROL SHALL BE INSTALLED PRIOR TO GRADING.
8. ACCUMULATED SILT DEPOSITS SHALL BE REMOVED FROM SILT FENCES AND HAY BALE DIKES WHEN SILT DEPTH REACHES THREE INCHES OR 25%.
9. THE CONTRACTOR SHALL ADD OR DELETE EROSION PROTECTION AT THE REQUEST AND DIRECTION OF THE OPERATOR OR TOWN.
10. AFTER INSTALLATION OF PAVEMENT, FINAL LOT BENCHING AND GENERAL CLEANUP, THE CONTRACTOR SHALL ESTABLISH GRASS GROUNDCOVER IN ALL STREET PARKWAYS, LOT AND ALL OTHER DISTURBED AREAS. SODDING SHALL BE DONE AS SPECIFIED BY SECTION 202.5 AND SEEDING AS SPECIFIED BY SECTION 202.6 OF THE OCTOBER 2004 OR LATEST EDITION OF NCTCOG STANDARD SPECIFICATION.
11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTROL AND LIMIT SILT AND SEDIMENT LEAVING THE SITE. SPECIFICALLY, THE CONTRACTOR SHALL PROTECT ALL PUBLIC STREETS, ALLEYS, STREAMS AND STORM DRAINAGE SYSTEMS FROM EROSION DEPOSITS.
12. A DRAINAGE AREA MAP WILL BE INCLUDED WITH THE EROSION CONTROL PLAN.
13. CONSTRUCTION WASTE DISPOSAL CONTAINERS SHALL BE PROVIDED ON THE SITE FOR DISPOSAL OF ALL NON-HAZARDOUS CONSTRUCTION WASTE MATERIALS. THE CONTAINERS SHALL BE HAULED TO LANDFILL BY THE CONTRACTOR.
14. ALL HAZARDOUS MATERIALS SHALL BE HANDLED AND DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

SILT FENCE NOTES

1. POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. THE POST MUST BE EMBEDDED A MINIMUM OF 18 INCHES.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G. PAVEMENT), WEIGHT FABRIC FLAP WITH WASHED GRAVEL ON THE UPHILL SIDE TO PREVENT FLOW UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHALL BE SECURELY FASTENED TO EACH SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE SUPPORT POST. THERE SHALL BE A 6 INCH DOUBLE OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
5. INSPECTION SHALL BE MADE EVERY TWO WEEKS OR AFTER EACH RAINFALL. REPAIR OR REPLACEMENT SHALL BE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 3 INCHES. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.



PERSPECTIVE VIEW



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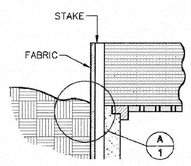
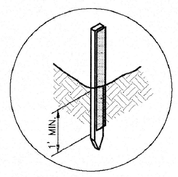


ELEVATION OR STAKE AND FABRIC ORIENTATION

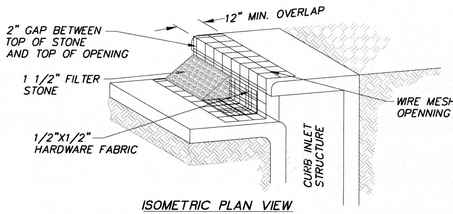


DETAIL 'A'

GRATE AND WYE INLET PROTECTION

SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OR OVER-LAND FLOWS (NOT TO EXCEED 1 C.F.S.) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREETS OR HIGHWAY MEDIANS.



ISOMETRIC PLAN VIEW

NOT TO SCALE

CURB INLET PROTECTION

NOT TO SCALE

NOTES:

1. MATERIAL SPECIFICATIONS:
   A. CONCRETE BLOCK-ASTM C 139, CONCRETE MASONRY UNIT FOR CONSTRUCTION.
   B. WIRE FABRIC-STANDARD GALVANIZED HARDWARE FABRIC WITH 1/2" BY 1/2" OPENINGS.
   C. FILTER STONE-NCTCOG SPECIFICATION 2.1.8.(E).
   D. WIRE MESH-WELDED WIRE FABRIC CONFORMING TO NCTCOG SPECIFICATION 2.2.7 MAXIMUM OPENING 6"x6".
2. MAINTENANCE REQUIREMENTS: CURB INLET PROTECTION SHOULD BE INSPECTED WEEKLY AND AFTER MAJOR RAIN EVENTS TO ENSURE THAT THE DEVICE IS FUNCTIONING PROPERLY. REMOVE SEDIMENT FROM THE STORAGE AREA WHEN THE DEPTH OF SEDIMENT HAS BUILT UP TO ONE-HALF OF THE STORAGE DEPTH. IF DE-WATERING OF THE STORAGE VOLUME IS NOT OCCURRING, CLEAN OR REPLACE THE FILTER STONE. CLEAN THE FILTER STONE SURFACE THE FIRST FEW TIMES BY RAKING. REPEATED SEDIMENT BUILD-UP WILL REQUIRE FILTER STONE REPLACEMENT.
3. DO NOT USE A SEDIMENT FILTER TO CONTROL EROSION AROUND "Y" INLETS, UTILIZE SEDIMENT FENCES.
4. EXTEND MESH, FABRIC AND FILTER STONE 12" BEYOND END OF INLET ON BOTH ENDS.



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BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

EROSION & SEDIMENT CONTROL DETAILS

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
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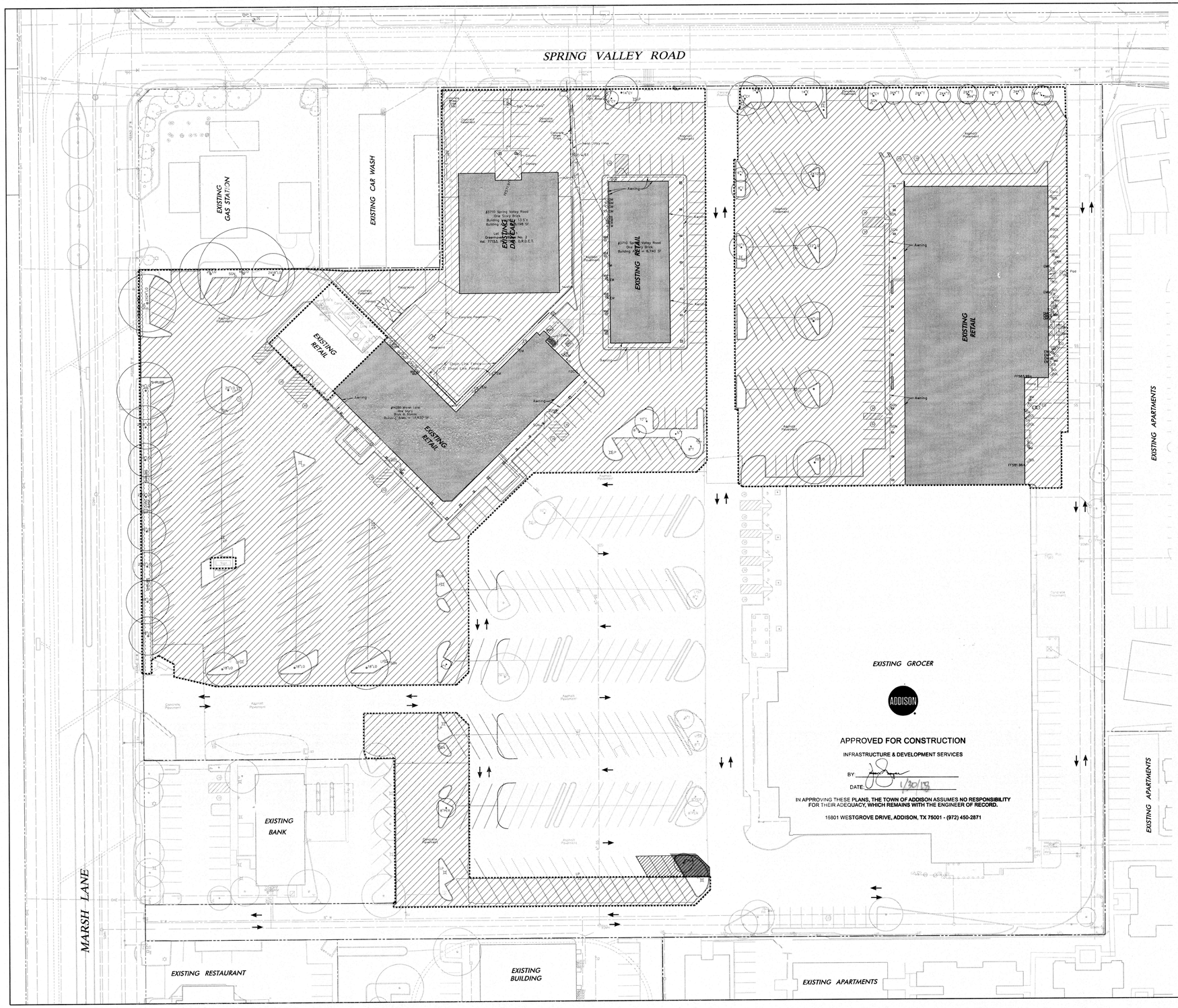
BROOKHAVEN VILLAGE SHOPPING CENTER – PROJECT NO. 5134-01

TOWN PROJECT # 17-06



LEGEND

- LIMITS OF DISTURBANCE
- EXISTING BUILDING TO BE REMOVED
- REMOVE & DISPOSE OF EXISTING PAVEMENT
- PROPOSED TEMPORARY PAVEMENT

WARNING

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BM #1 REF. ELEVATION = 573.00
TOWN OF ADDISON MONUMENT NO. 1 BEING A DISK SET IN CONCRETE ON THE NORTH SIDE OF SPRING VALLEY ROAD, APPROX. 147 FEET EAST OF THE CENTERLINE OF MARSH LANE.

BM #2 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

NORTH

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

BRUCE F. DUNN 62654 LICENSED PROFESSIONAL ENGINEER 12/15/17

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INFRASTRUCTURE & DEVELOPMENT SERVICES
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BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

CONSTRUCTION PHASING PHASE 1

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TOWN PROJECT # 17-06

BROOKHAVEN VILLAGE SHOPPING CENTER – PROJECT NO. 5134-01

SPRING VALLEY ROAD

EXISTING GAS STATION

EXISTING CAR WASH

EXISTING RETAIL

PROPOSED RETAIL/RESTAURANT

EXISTING APARTMENTS

EXISTING GROCER

EXISTING BANK

MARSH LANE

EXISTING RESTAURANT

EXISTING BUILDING

EXISTING APARTMENTS

ADDISON

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INFRASTRUCTURE & DEVELOPMENT SERVICES

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LEGEND

LIMITS OF DISTURBANCE

REMOVE & DISPOSE OF EXISTING PAVEMENT

PROPOSED BUILDING & PAVEMENT

PROPOSED UTILITIES

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TOWN OF ADDISON, TEXAS

LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

CONSTRUCTION PHASING PHASE 2-1

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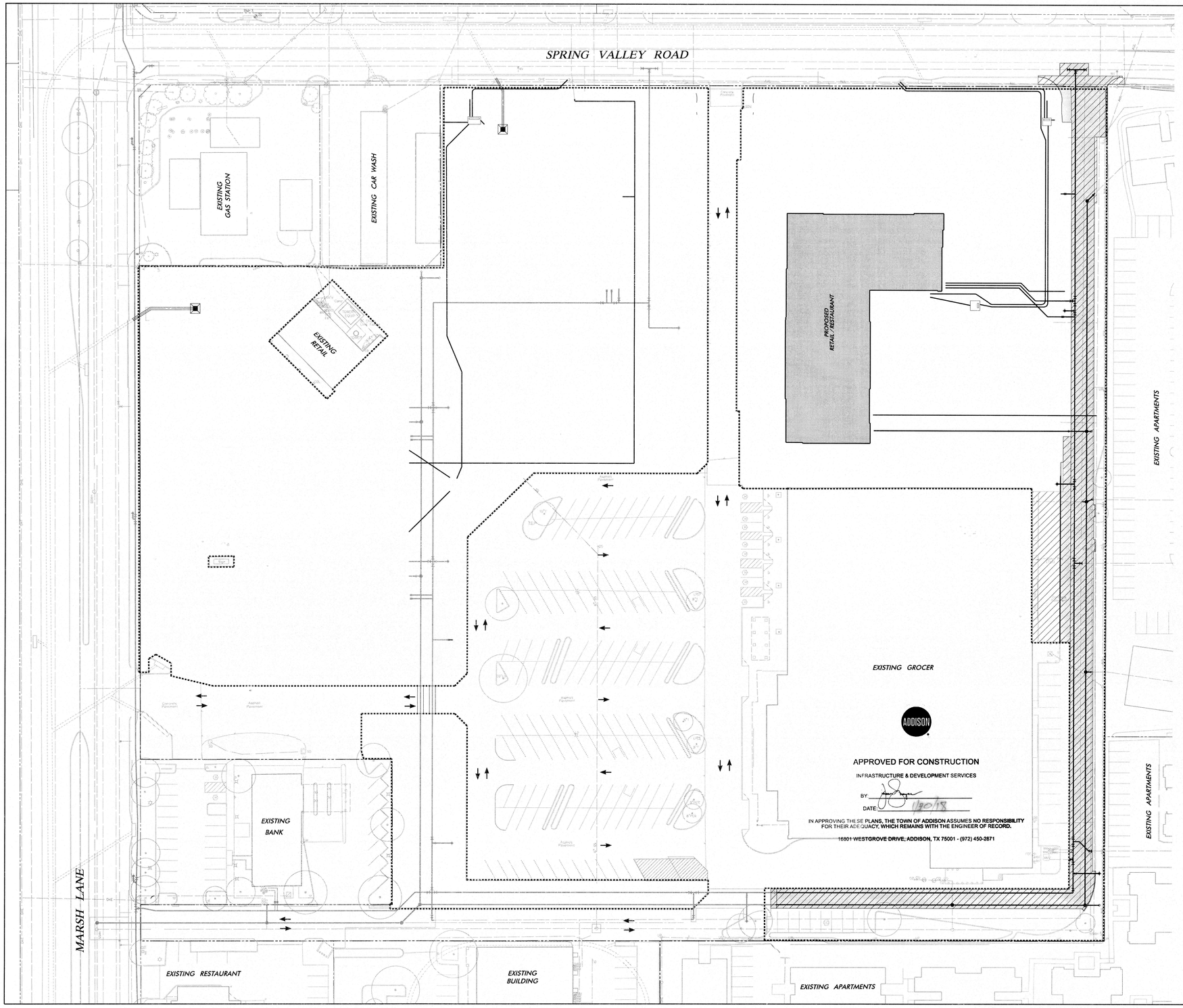
ICE	ICE	DEC 15, 2017	AS NOTED		C8.02-1

BROOKHAVEN VILLAGE SHOPPING CENTER – PROJECT NO. 5134-01

TOWN PROJECT # 17-06



LEGEND

- LIMITS OF DISTURBANCE
- REMOVE & DISPOSE OF EXISTING PAVEMENT
- PROPOSED BUILDING & PAVEMENT
- PROPOSED UTILITIES

WARNING

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GRAPHIC SCALE IN FEET
SCALE: 1"=40'

STATE OF TEXAS BRUCE F. DUNNE 62654 LICENSED PROFESSIONAL ENGINEER 12/5/17

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BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

CONSTRUCTION PHASING PHASE 2-2

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BROOKHAVEN VILLAGE SHOPPING CENTER – PROJECT NO. 5134-01

TOWN PROJECT # 17-06

SPRING VALLEY ROAD

EXISTING GAS STATION

EXISTING CAR WASH

EXISTING RETAIL

PROPOSED RETAIL/RESTAURANT

EXISTING APARTMENTS

WITHIN THIS PHASE, THE NORTH PARKING AREA AND THE DRIVE LANES ARE TO BE COMPLETED BEFORE THE SOUTH PARKING AREA DEMOLITION AND NEW PAVING BEGINS.

EXISTING GROCER

EXISTING BANK

EXISTING RESTAURANT

EXISTING BUILDING

EXISTING APARTMENTS

MARSH LANE

ADDISON

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INFRASTRUCTURE & DEVELOPMENT SERVICES

BY: _____

DATE: 1/30/18

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LEGEND

LIMITS OF DISTURBANCE

REMOVE & DISPOSE OF EXISTING PAVEMENT

PROPOSED BUILDING & PAVEMENT

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SCALE: 1"=40'

STATE OF TEXAS
BRUCE F. DUNNE
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12/15/17

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BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

CONSTRUCTION PHASING PHASE 3

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BROOKHAVEN VILLAGE SHOPPING CENTER - PROJECT NO. 5134-01

TOWN PROJECT # 17-06

SPRING VALLEY ROAD

EXISTING GAS STATION

EXISTING CAR WASH

EXISTING RETAIL

PROPOSED RETAIL/RESTAURANT

EXISTING APARTMENTS

EXISTING GROCER

EXISTING BANK

MARSH LANE

EXISTING RESTAURANT

EXISTING BUILDING

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ADDISON

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LEGEND

LIMITS OF DISTURBANCE ----------

REMOVE & DISPOSE OF EXISTING PAVEMENT

PROPOSED BUILDING & PAVEMENT

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TOWN OF ADDISON, TEXAS

LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

CONSTRUCTION PHASING PHASE 4

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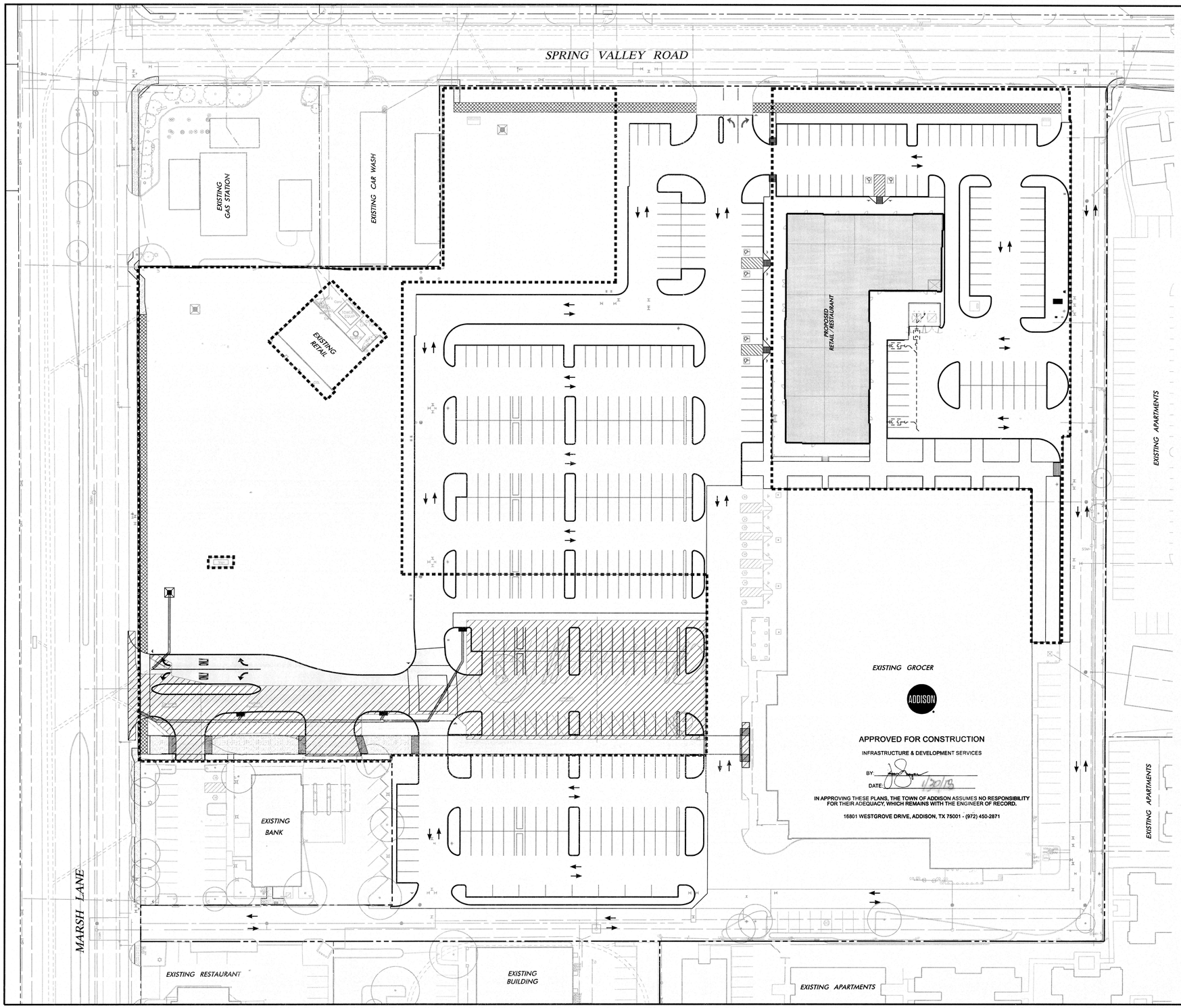

LEGEND

LIMITS OF DISTURBANCE

REMOVE & DISPOSE OF EXISTING PAVEMENT

PROPOSED BUILDING & PAVEMENT

WARNING

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ADDISON

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BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

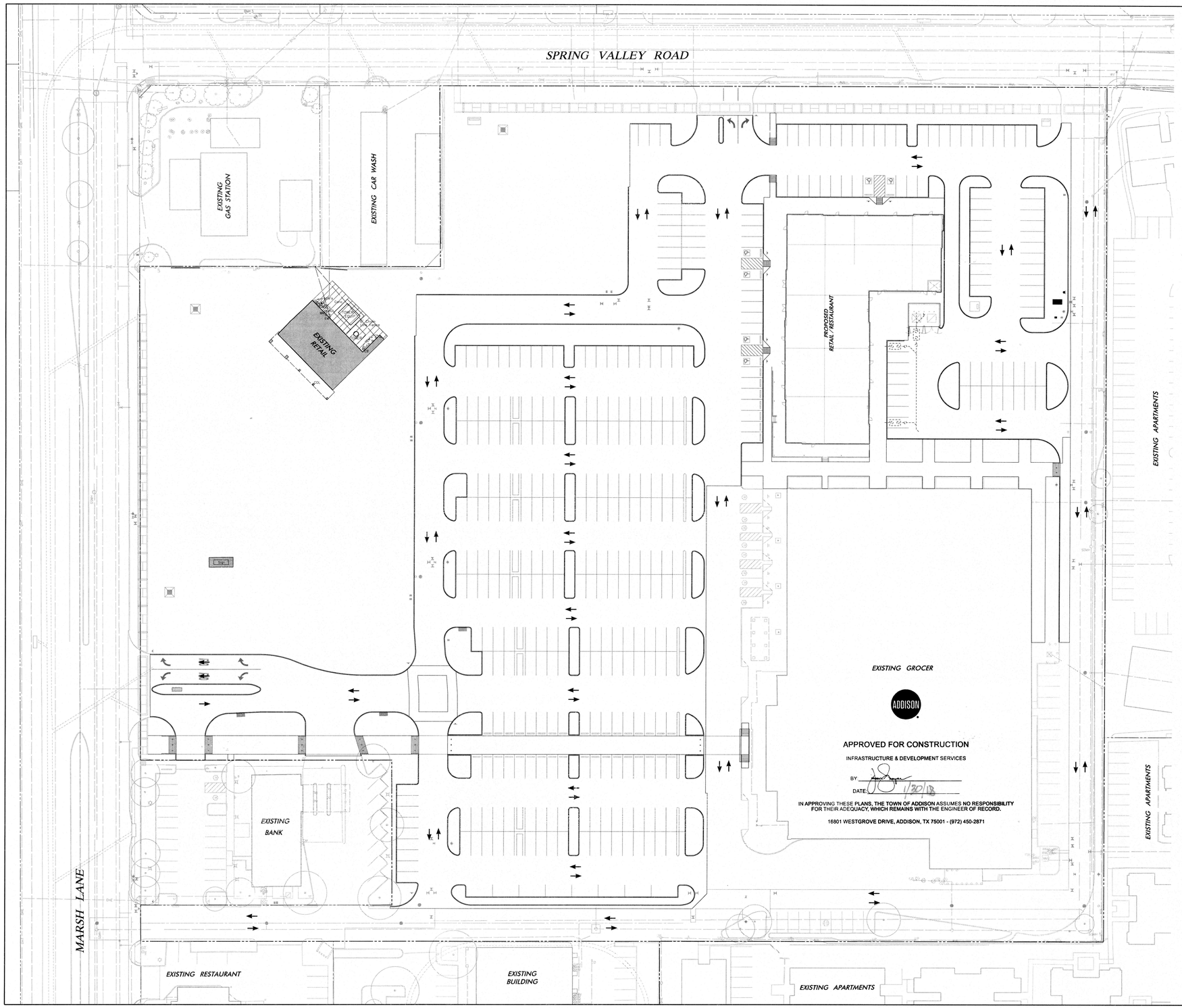
LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

CONSTRUCTION PHASING PHASE 5

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C8.05

TOWN PROJECT # 17-06

BROOKHAVEN VILLAGE SHOPPING CENTER – PROJECT NO. 5134-01



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LEGEND

EXISTING BUILDING TO BE REMOVED

REMOVE & DISPOSE OF EXISTING PAVEMENT

WARNING

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

BM #1 REF. ELEVATION = 573.00
TOWN OF ADDISON MONUMENT NO. 1 BEING A DISK SET IN CONCRETE ON THE NORTH SIDE OF SPRING VALLEY ROAD, APPROX. 147 FEET EAST OF THE CENTERLINE OF MARSH LANE.

BM #2 REF. ELEVATION = 559.47
SQUARE CUT IN TOP OF CURB, SOUTH MEDIAN END NOSE, MARSH LANE 1127' NORTH OF VITRUVIAN WAY.

NORTH

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

STATE OF TEXAS
CLAUDE F. DUNNE
62654
LICENSED PROFESSIONAL ENGINEER
12/15/17

NO.	REVISION	BY	DATE

icon Consulting Engineers, Inc.
Civil Engineers - Designers - Planners
Engineering Firm Registration Number F-9007
2840 W. Southlake Blvd., Suite 110
Southlake, Tx 76092 (817) 552-6210

BROOKHAVEN VILLAGE SHOPPING CENTER

TOWN OF ADDISON, TEXAS

LOT 1, BLOCK E, VITRUVIAN PARK ADDITION

CONSTRUCTION PHASING PHASE 6

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	DEC 15, 2017	AS NOTED		C8.06

TOWN PROJECT # 17-06

BROOKHAVEN VILLAGE SHOPPING CENTER – PROJECT NO. 5134-01