

PLANS FOR THE CONSTRUCTION OF
STREETSCAPE & TRAIL IMPROVEMENTS
VITRUVIAN TOWNHOMES
FOR
VITRUVIAN PARK PUBLIC INFRASTRUCTURE - PH. 9, BLOCK 701
TOWN OF ADDISON, TEXAS

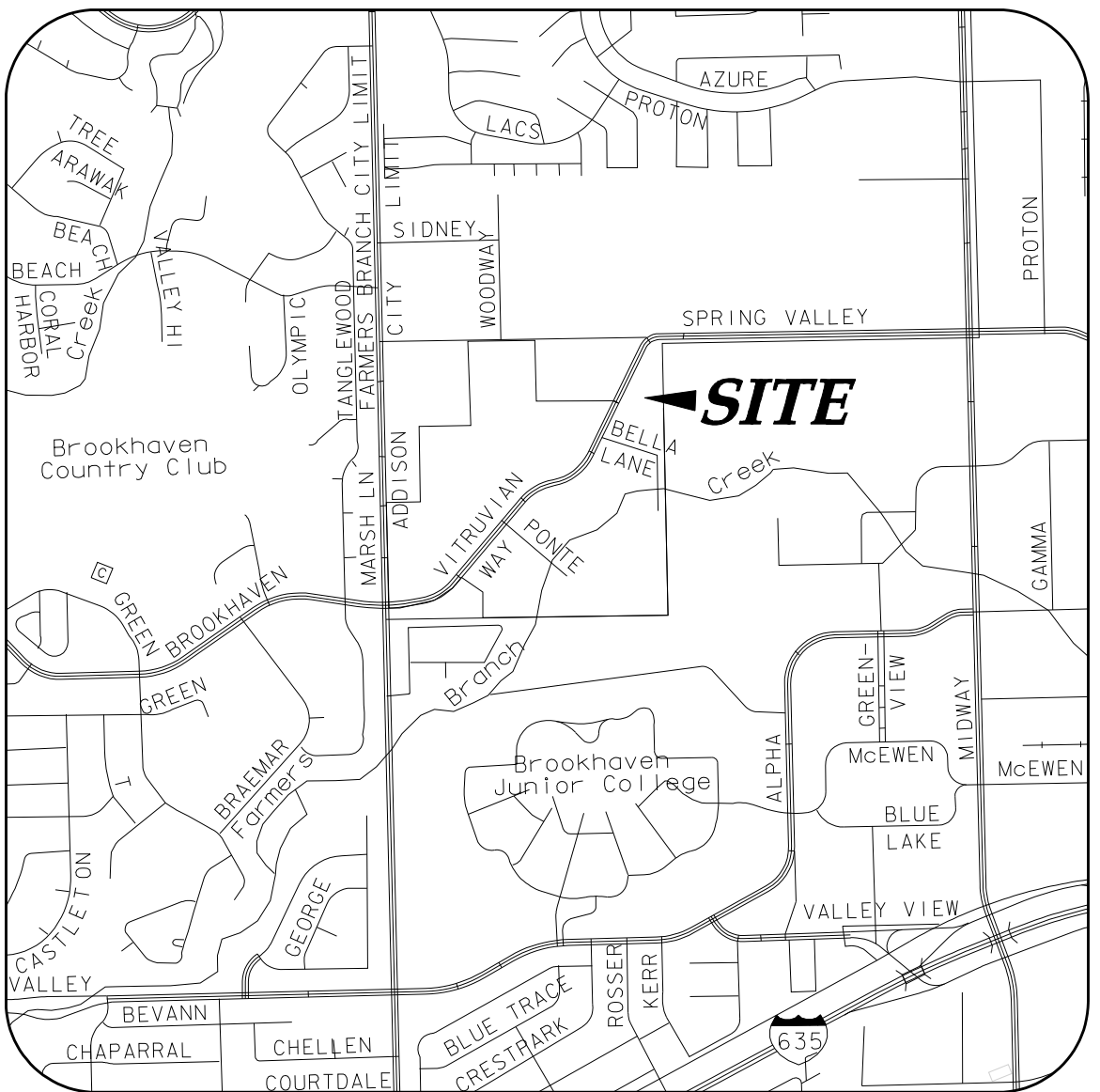
TOWN PROJECT # 2022-05-C
TOWN BID # 23-51

JOE CHOW
MAYOR

GUILLERMO QUINTANILLA
DARREN GARDNER
TOM BRAUN
LORI WARD
KATHRYN WHEELER
EILEEN RESNIK
COUNCIL MEMBERS

DAVID GAINS
CITY MANAGER

SHANNON HICKS
DIRECTOR OF PUBLIC
WORKS & ENGINEERING



VICINITY MAP

NOT TO SCALE
(MAPSCO GRID 13 & 14)



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CIVIL ENGINEER:
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2840 W. SOUTHLAKE BLVD., SUITE 110
SOUTHLAKE, TEXAS 76092
PH: (817) 552-6210
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.

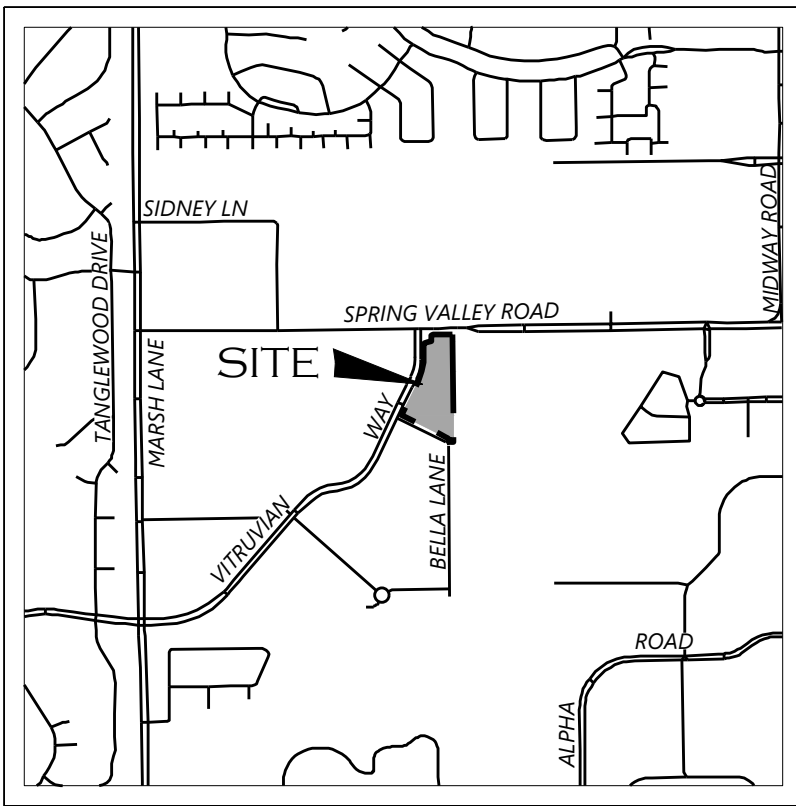
icon Consulting Engineers, Inc.
Civil Engineers- Designers- Planners
ENGINEERING FIRM REGISTRATION NUMBER F-9007

OCTOBER 16, 2023



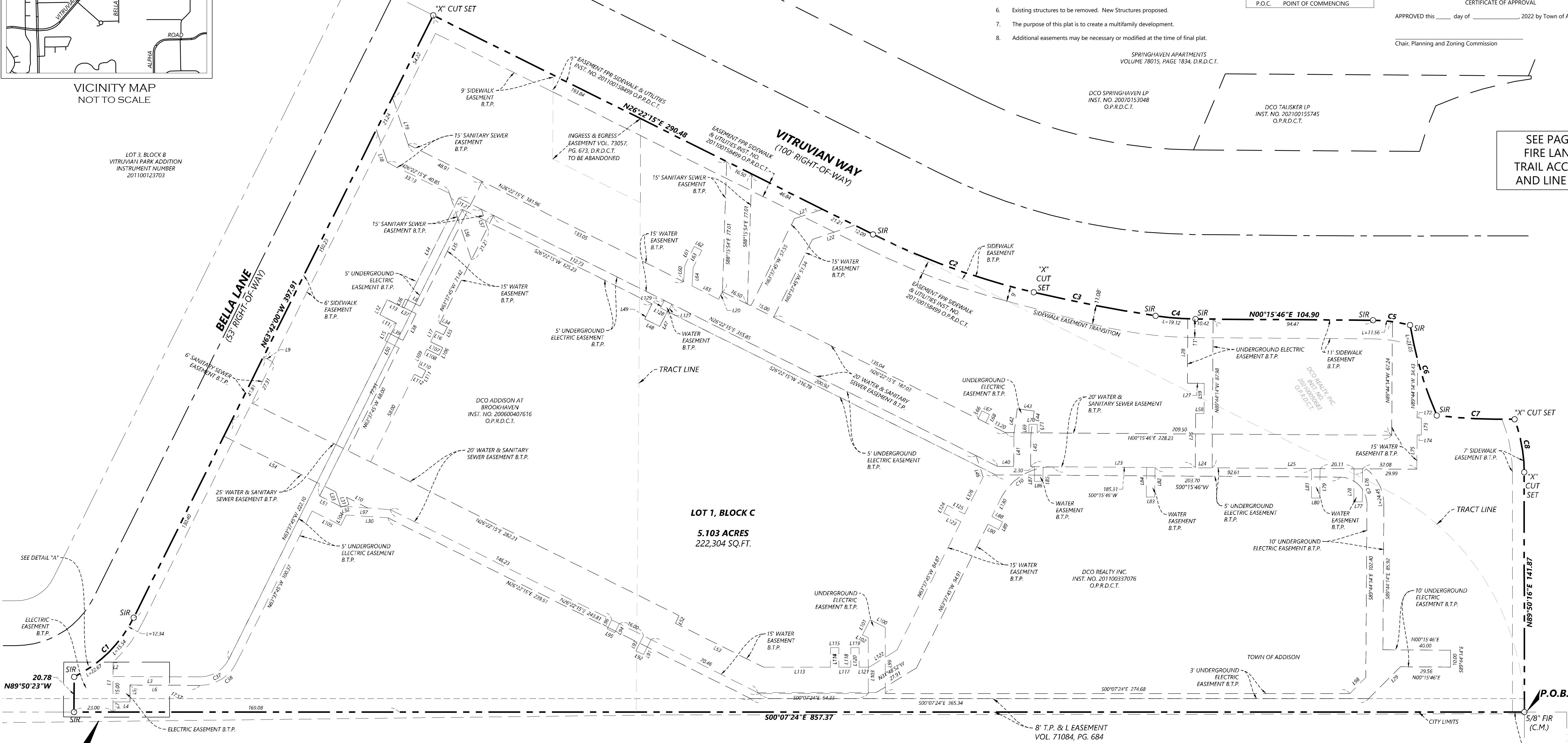
PROJECT NO. 5029-08

NO.	REVISION	BY	DATE



VICINITY MAP
NOT TO SCALE

LOT 3, BLOCK B
VITRUVIAN PARK ADDITION
INSTRUMENT NUMBER
201100123703



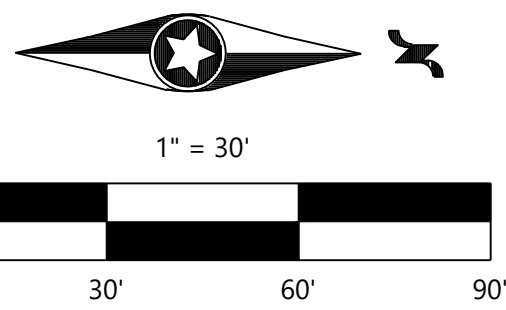
LOT 1, BLOCK C
5.103 ACRES
222,304 SQ. FT.

NOTES

- The bearings shown hereon are oriented to Grid North, Texas State Plane Coordinate System, NAD83 Texas North Central Zone (4202) (2011).
- Property is Zoned Planned Development (PD) through Ordinance No. 007-034 as amended by Ordinance No. 016-017.
- Notice: Selling a portion of this addition by metes and bounds is a violation of city ordinance and state law and is subject to fines and withholding of utilities and building permits.
- Development standards of this plat shall comply with Zoning Ord. 66 as amended.
- 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.
- Existing structures to be removed. New Structures proposed.
- The purpose of this plat is to create a multifamily development.
- Additional easements may be necessary or modified at the time of final plat.

LEGEND

SIR	FOUND 1/2" IRON ROD WITH YELLOW PLASTIC CAP-STAMPED "WESTWOOD PS"
FIR	FOUND 1/2" IRON ROD
(C.M.)	CONTROLLING MONUMENT
VOL., PG.	VOLUME, PAGE
D.R.D.C.T.	DEED RECORDS, DALLAS COUNTY, TEXAS
INST. NO.	INSTRUMENT NUMBER
O.P.R.D.C.T.	OFFICIAL PUBLIC RECORDS, DALLAS COUNTY, TEXAS
P.O.B. /	POINT OF BEGINNING /
P.O.C.	POINT OF COMMENCING



CERTIFICATE OF APPROVAL

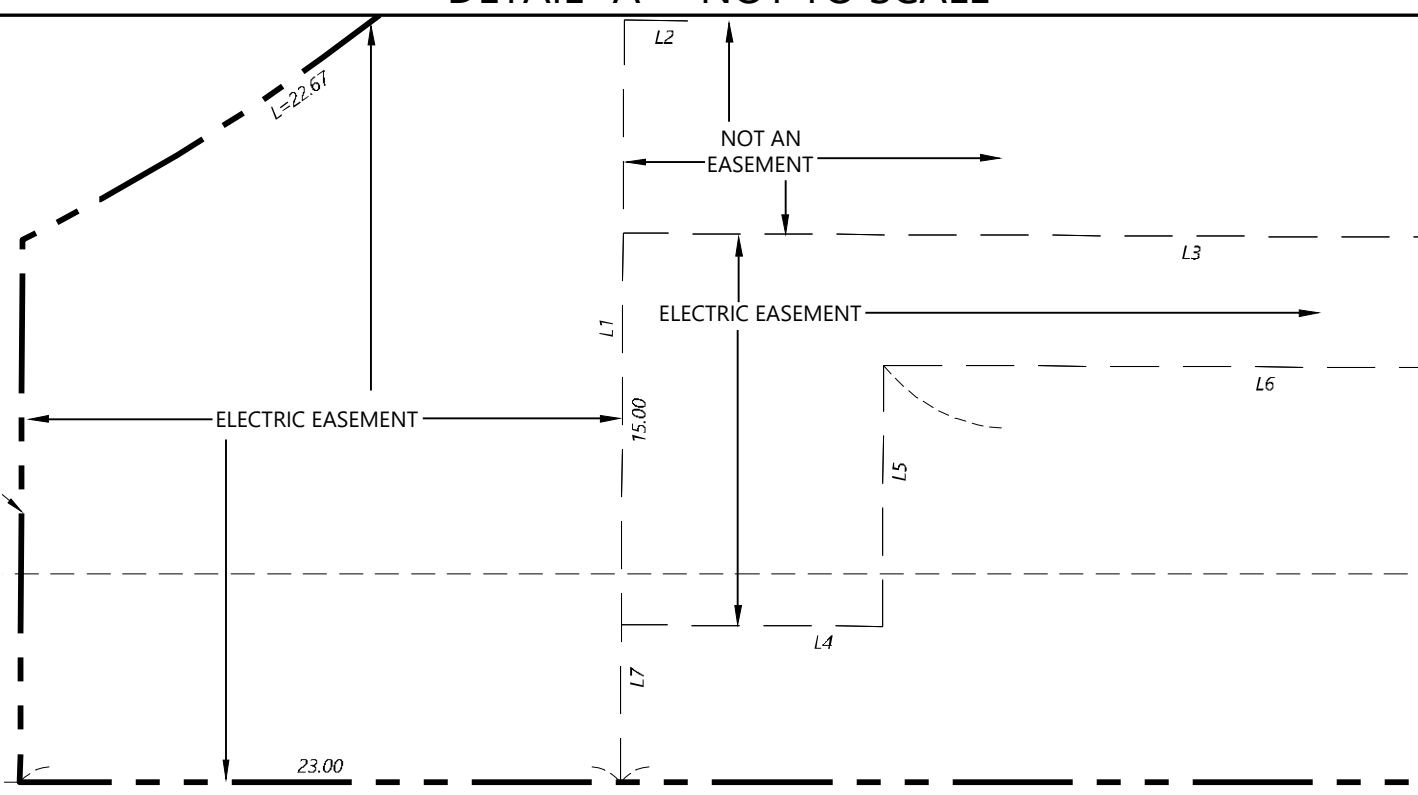
APPROVED this ____ day of _____, 2022 by Town of Addison, Texas.

Chair, Planning and Zoning Commission

SEE PAGE 2 OF 2 FOR
FIRE LANE EASEMENT,
TRAIL ACCESS EASEMENT,
AND LINE / CURVE TABLE

SEE DETAIL "A"

DETAIL "A" - NOT TO SCALE



OWNER'S CERTIFICATE
STATE OF TEXAS
COUNTY OF DALLAS

WHEREAS, DCO Addison at Brookhaven and DCO Realty, Inc. are the owners of a tract of land situated in the Noah Good Survey, Abstract No. 520, Town of Addison, Dallas County, Texas, said tract being all of a tract of land conveyed to DCO Addison at Brookhaven by deed recorded in County Clerk Instrument Number 200600407616, Official Public Records of Dallas County, Texas, being all of a tract of land conveyed to DCO Realty, Inc. by deed recorded in County Clerk Instrument Number 201100337076, Official Public Records of Dallas County, Texas, and all of a 0.433 acre tract of land conveyed from Town of Addison to DCO Realty, Inc. by deed recorded in Instrument Number 202100050683, Official Public Records, Dallas County, Texas; and being more particularly described as follows:

BEGINNING at a found 5/8 inch iron rod for the northwest corner of Lot 1, Block A, of the Villas at Parkside Phase I addition, an addition to the City of Addison as recorded in Volume 2003220, Page 5062, Official Public Records, Dallas County, Texas and being in the south right-of-way line of Spring Valley Road (variable width right-of-way);

THENCE South 00 degrees 07 minutes 24 seconds East, along the west line of said Lot 1, Block A, a distance of 857.37 feet to a set 1/2-inch capped iron rod stamped "WESTWOOD PS" for corner and being the northeast corner of Bella Lane, as shown on the plat of Vitruvian Park Addition, an addition to the City of Addison as recorded in Instrument Number 201100123703, Official Public Records, Dallas County, Texas;

THENCE departing said west line of Lot 1, Block A and along the north right-of-way line of said Bella Lane, the following three (3) calls and distances:

- North 89 degrees 50 minutes 23 seconds West, a distance of 20.78 feet to a set 1/2-inch capped iron rod stamped "WESTWOOD PS" for corner and the beginning of a non-tangent curve to the left;

- Along said non-tangent curve to the left having a central angle of 37 degrees 22 minutes 25 seconds, a radius of 77.50 feet, and an arc length of 30.55 feet (chord bears North 45 degrees 00 minutes 48 seconds West, a distance of 49.66 feet) to a set 1/2-inch capped iron rod stamped "WESTWOOD PS" at the end of said curve;

- North 63 degrees 42 minutes 00 seconds West, a distance of 397.91 feet to a set "X" in concrete for corner at the intersection of said north right-of-way line of Bella Lane and the southeast right-of-way line of Vitruvian Way (variable width right-of-way);

THENCE North 26 degrees 15 minutes 15 seconds East departing said north line right-of-way line of Bella Lane and along said southeast right-of-way line of Vitruvian Way, a distance of 290.48 feet to a set 1/2-inch capped iron rod stamped "WESTWOOD PS" for the beginning of a tangent curve to the left, and being the south corner of said 0.433 acre tract of land;

CONTINUED...

CONTINUED...

THENCE with the southeast right-of-way line of Vitruvian Way and said 0.433 acre tract, the following six (6) calls and distances:

- Along said tangent curve to the left having a central angle of 13 degrees 21 minutes 54 seconds, a radius of 434.00 feet, and an arc length of 101.24 feet (chord bears North 19 degrees 41 minutes 18 seconds East, a distance of 101.01 feet) to a set "X" in concrete for the end of said curve and the beginning of a compound curve to the left;

- Along said compound curve to the left having a central angle of 04 degrees 19 minutes 47 seconds, a radius of 971.08 feet, and an arc length of 73.88 feet (chord bears North 10 degrees 50 minutes 28 seconds East, 73.36 feet) to a set 1/2-inch capped iron rod stamped "WESTWOOD PS" for the end of said curve and the beginning of a compound curve to the left;

- Along said compound curve to the left having a central angle of 08 degrees 29 minutes 14 seconds, a radius of 160.00 feet, and an arc length of 23.70 feet (chord bears North 04 degrees 25 minutes 58 seconds East, 23.68 feet) to a set 1/2-inch capped iron rod stamped "WESTWOOD PS" for the end of said curve;

- North 00 degrees 15 minutes 46 seconds East, a distance of 104.90 feet to a set 1/2-inch capped iron rod stamped "WESTWOOD PS" for the beginning of a tangent curve to the right;

- Along said tangent curve to the right having a central angle of 14 degrees 07 minutes 20 seconds, a radius of 90.00 feet, and an arc length of 22.18 feet (chord bears North 07 degrees 19 minutes 26 seconds East, 22.13 feet) to a set 1/2-inch capped iron rod stamped "WESTWOOD PS" for the end of said tangent curve to the right, and the beginning of a non-tangent curve to the left;

- Along said non-tangent curve to the left having a central angle of 13 degrees 43 minutes 01 second, a radius of 233.48 feet, and an arc length of 55.90 feet (chord bears North 73 degrees 26 minutes 28 seconds East, 55.76 feet) to a set "X" in concrete for the end of said non-tangent curve to the left, and the beginning of a non-tangent curve to the left; said corner being at the said southeast right-of-way line of Vitruvian Way and the south right-of-way line of said Spring Valley Road;

THENCE along said south right-of-way line of Spring Valley Road, the following three (3) calls and distances:

- Along said non-tangent curve to the left having a central angle of 07 degrees 56 minutes 56 seconds, a radius of 332.30 feet, and an arc length of 46.10 feet (chord bears North 02 degrees 38 minutes 16 seconds East, 46.06 feet) to a set 1/2-inch capped iron rod stamped "WESTWOOD PS" for the end of said non-tangent curve to the left and the beginning of a non-tangent curve to the right;

- Along said non-tangent curve to the right having a central angle of 20 degrees 23 minutes 52 seconds, a radius of 90.00 feet, and an arc length of 32.04 feet (chord bears North 19 degrees 38 minutes 19 seconds East, 31.87 feet) to a set "X" in concrete for the end of said non-tangent curve to the right;

- North 89 degrees 50 minutes 16 seconds East, a distance of 141.87 feet to the **POINT-OF-BEGINNING**, containing **222,304 square feet** or **5.103 acres** of land

OWNER
DCO ADDISON AT BROOKHAVEN
1745 SHEA CENTER DR STE 200
HIGHLANDS RANCH, COLORADO

OWNER
DCO REALTY INC.
1745 SHEA CENTER DR STE 200
HIGHLANDS RANCH, COLORADO

SURVEYOR

Westwood

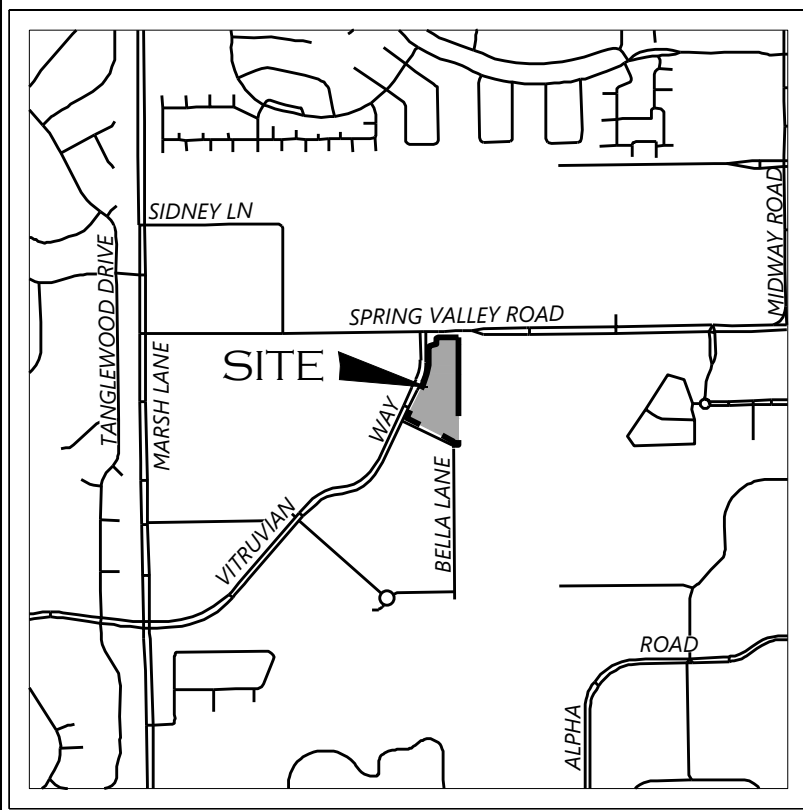
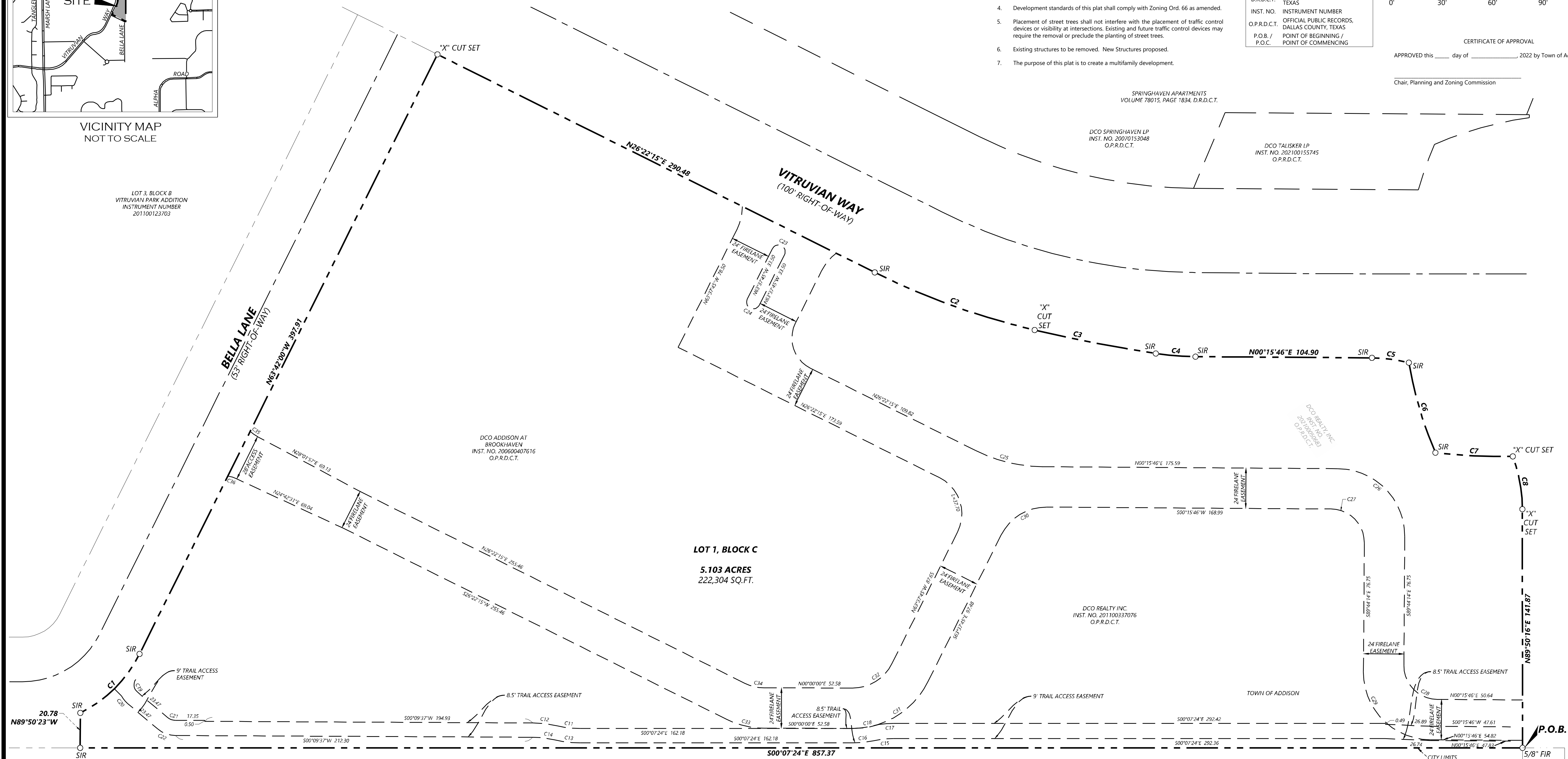
Phone (214) 473-4640 2901 Dallas Parkway, Suite 400
TollFree (888) 937-5150 Plano, TX 75093
westwoodps.com

Westwood Professional Services, Inc.
TSPS FIRM REGISTRATION NO. 117756
TSPS FIRM REGISTRATION NO. 10074301

PRELIMINARY PLAT
VITRUVIAN PARK ADDITION
LOT 1, BLOCK C;

5.103 ACRES
OUT OF THE
NOAH GOOD SURVEY, ABSTRACT NO. 520
IN THE
TOWN OF ADDISON
DALLAS COUNTY, TEXAS
TOWN OF ADDISON PROJECT NO. PP2021-01

MAY 03, 2022 JOB NO. 0008445.06 VITRUVIAN PARK ADDITION

VICINITY MAP
NOT TO SCALELOT 3, BLOCK B
VITRUVIAN PARK ADDITION
INSTRUMENT NUMBER
201100123/03FIRE LANE ACCESS EASEMENT
AND TRAIL ACCESS EASEMENT

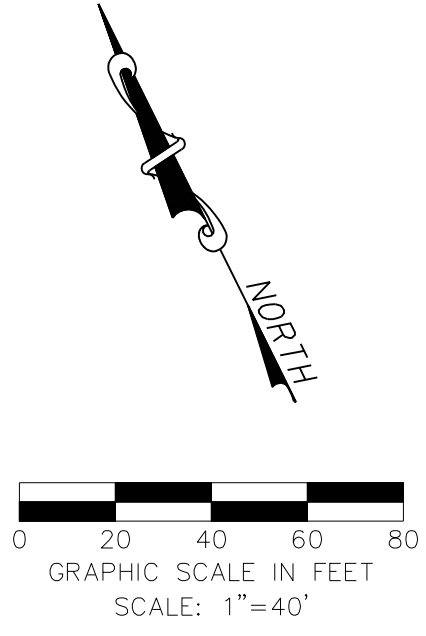
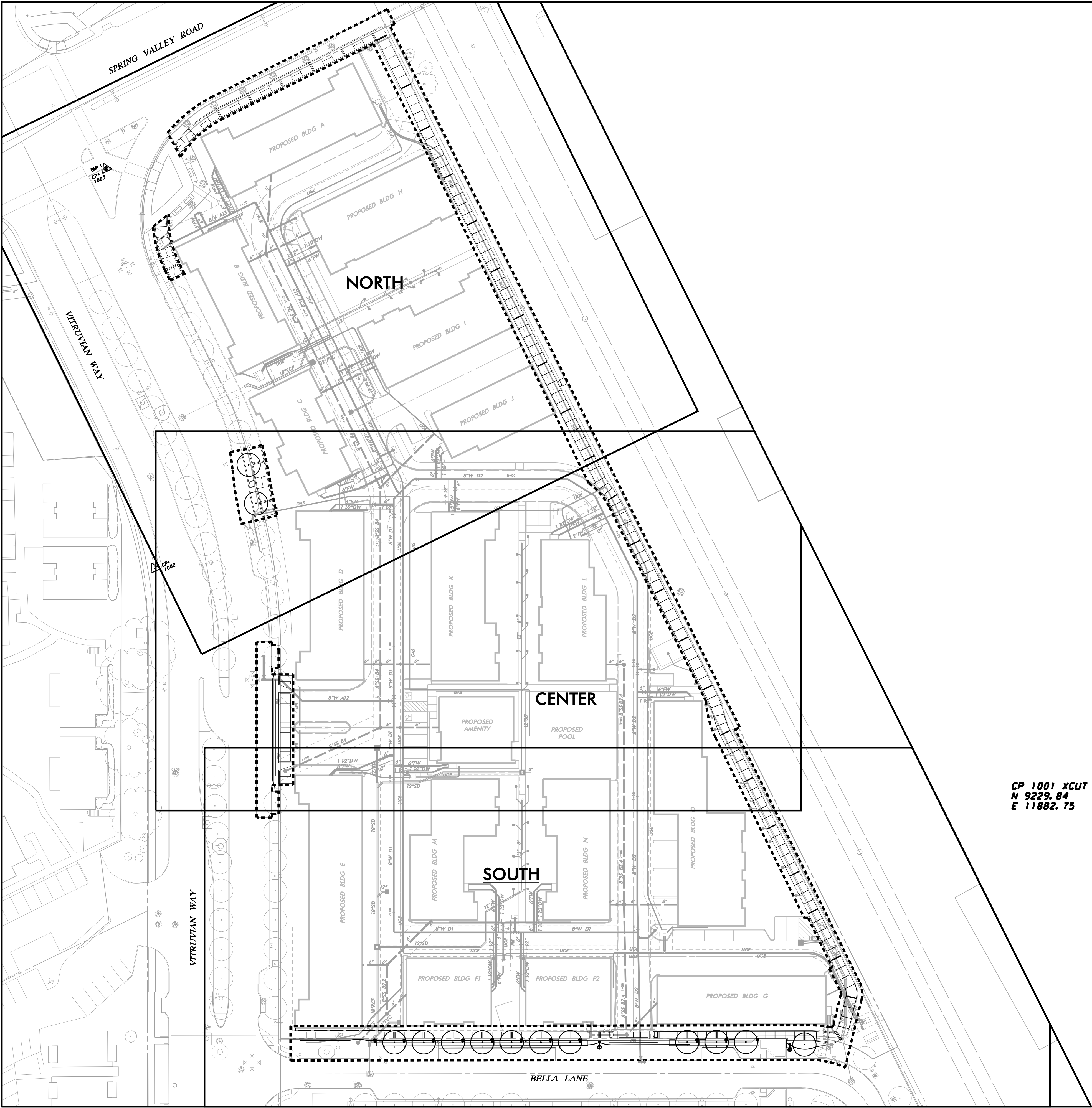
Line Table			Line Table			Line Table			Line Table			Line Table			Line Table			Line Table		
Line #	Length	Direction	Line #	Length	Direction	Line #	Length	Direction	Line #	Length	Direction	Line #	Length	Direction	Line #	Length	Direction	Line #	Length	Direction
L1	29.19	S89°50'23"E	L21	17.60	N18°37'45"W	L41	19.28	N89°44'14"W	L61	12.52	N63°32'05"W	L81	17.50	S89°44'14"E	L101	10.00	S63°37'45"E	L121	5.83	S00°07'24"E
L2	2.43	N00°09'37"E	L22	26.39	N18°37'45"W	L42	14.94	S82°26'00"E	L62	5.00	S26°27'55"W	L82	17.50	S89°44'14"E	L102	3.81	N26°22'15"E	L122	19.38	N31°48'52"W
L3	51.31	N00°09'37"E	L23	97.30	N00°15'46"E	L43	10.00	S07°34'00"W	L63	11.52	N63°32'05"W	L83	5.00	S00°15'46"W	L103	32.93	S89°52'36"W	L123	11.50	N26°22'15"E
L4	10.00	N00°09'37"E	L24	10.00	N00°15'46"E	L44	14.31	S82°26'00"E	L64	10.78	N86°07'35"W	L84	17.50	S89°44'14"E	L104	6.88	N63°37'45"W	L124	5.00	N63°37'45"W
L5	10.00	S89°50'23"E	L25	121.00	N00°15'46"E	L45	18.64	N89°44'14"W	L65	17.72	N26°22'15"E	L85	8.60	S89°44'14"E	L105	19.00	N26°22'15"E	L125	11.50	N26°22'15"E
L6	41.31	N00°09'37"E	L26	32.00	N89°44'14"W	L46	13.32	S71°22'15"W	L66	5.28	N63°37'45"W	L86	5.00	S00°15'46"W	L106	5.00	N63°37'45"W	L126	24.48	N63°37'45"W
L7	6.03	S89°50'23"E	L27	10.00	N00°15'46"E	L47	10.00	S63°37'45"E	L67	5.00	S26°22'15"W	L87	8.60	S89°44'14"E	L107	8.00	S26°22'15"W	L127	5.00	S63°37'45"E
L8	9.50	N26°22'15"E	L28	38.06	N89°44'14"W	L48	10.00	S26°22'15"W	L68	5.28	N63°37'45"W	L88	7.00	N26°22'15"E	L108	8.00	S26°22'15"W	L128	5.00	S26°22'15"W
L9	6.00	S26°18'00"W	L29	26.57	S45°07'24"E	L49	10.00	N63°37'45"W	L69	5.05	N89°44'14"W	L89	5.00	N63°37'45"W	L109	11.50	N63°37'45"W	L129	5.00	S63°37'45"E
L10	14.43	N26°22'15"E	L30	24.88	S03°52'15"W	L50	189.39	S63°37'45"E	L70	5.00	S00°15'46"W	L90	7.00	N26°22'15"E	L110	5.00	N26°22'15"E			
L11	11.00	S26°22'15"W	L31	4.63	S71°22'15"W	L51	13.48	N26°22'15"E	L71	5.05	N89°44'14"W	L91	10.00	S63°37'45"E	L111	5.00	S63°37'45"E			
L12	10.00	N63°37'45"W	L32	5.00	S18°37'45"E	L52	5.00	S63°37'45"E	L72	2.51	N00°17'54"E	L92	5.00	S26°22'15"W	L112	5.00	N26°22'15"E			
L13	11.00	N26°22'15"E	L33	9.63	S71°22'15"E	L53	58.38	N26°22'15"E	L73	10.00	S89°44'06"E	L93	10.00	S63°37'45"E	L113	39.41	S00°07'24"E			
L14	72.67	N63°37'45"W	L34	5.00	S26°22'15"W	L54	73.83	S26°22'15"W	L74	2.50	N00°17'54"E	L94	6.00	S63°37'45"E	L114	11.60	S89°52'36"W			
L15	5.00	S63°37'45"E	L35	82.48	S63°37'45"E	L55	5.00	S63°37'45"E	L75	20.30	N89°44'14"W	L95	5.00	S26°22'15"W	L115	5.00	S00°07'24"E			
L16	5.00	N26°22'15"E	L36	5.00	N63°37'45"W	L56	41.40	N71°22'15"E	L76	19.54	S89°44'14"E	L96	6.00	S63°37'45"E	L116	11.60	S89°52'36"W			
L17	7.08	N63°37'45"W	L37	9.50	S26°22'15"W	L57	11.40	N71°22'15"E	L77	5.00	S00°15'46"W	L97	29.78	S03°52'15"W	L117	7.00	S00°07'24"E			
L18	20.56	S71°22'15"W	L38	17.52	N63°37'45"W	L58	5.00	N00°15'46"E	L78	19.54	S89°44'14"E	L98	13.36	S45°07'24"E	L118	11.60	S89°52'36"W			
L19	29.38	S71°22'15"W	L39	9.50	N26°22'15"E	L59	17.98	N89°44'14"W	L79	17.50	S89°44'14"E	L99	39.11	S89°52'36"W	L119	5.00	S00°07'24"E			
L20	5.00	S63°37'45"E	L40	9.56	S00°15'46"W	L60	9.71	N86°07'35"W	L80	5.00	S00°15'46"W	L100	10.00	N26°22'15"E	L120	11.60	S89°52'36"W			

Curve Table					
Curve #	Length	Radius	Delta	Chord Bearing	Chord Length
C1	50.55	77.50	037°22'25"	N 45°00'48" W	49.66
C2	101.24	434.00	013°21'54"	N 19°41'18" E	101.01
C3	73.38	971.08	004°19'47"	N 10°50'28" E	73.36
C4	23.70	160.00	008°29'14"	N 4°25'58" E	23.68
C5	22.18	90.00	014°07'20"	N 7°19'26" E	22.13
C6	55.90	233.48	013°43'01"	N 7°32'28" E	55.76
C7	46.10	332.30	007°56'56"	N 2°38'16" E	46.06
C8	32.04	90.00	020°23'52"	N 79°38'19" E	31.87
C9	25.13	16.00	090°00'00"	S 45°15'46" W	22.63
C10	37.87	33.96	063°53'31"	N 31°41'00" E	35.94
C11	13.50	58.50	013°13'14"	N 6°29'13" E	13.47
C12	15.02	66.50	012°56'13"	N 6°37'43" W	14.98
C13	15.46	67.00	013°13'14"	N 6°29'13" E	15.43
C14	13.10	58.00	012°56'13"	N 6°37'43" W	13.07
C15	12.01	58.00	011°51'56"	N 6°03'22" E	11.99
C16	12.22	59.00	011°51'56"	S 6°03'22" W	12.20
C17	8.51	67.00	007°16'37"	N 3°45'42" E	8.50
C18	15.83	50.50	017°57'30"	S 9°06'09" W	15.76
C19	8.29	5.50	086°20'51"	N 83°08'36" E	7.53

Curve Table					
Curve #	Length	Radius	Delta	Chord Bearing	Chord Length
C20	5.83	14.50	023°01'49"	N 51°29'05" E	5.79
C21	5.21	7.50	039°48'36"	N 20°03'55" E	5.11
C22	11.46	16.50	039°48'36"	N 20°03'55" E	11.24
C23	12.57	4.00	180°00'02"	S 26°22'16" W	8.00
C24	12.57	4.00	180°00'02"	S 26°22'14" E	8.00
C25	41.18	90.38	026°06'29"	S 13°19'00" E	40.83
C26	62.83	40.00	090°00'00"	S 45°15'46" W	56.57
C27	31.42	20.00	090°00'00"	S 45°15'46" W	28.28
C28	31.42	20.00	090°00'00"	N 45°15'46" E	28.28
C29	62.83	40.00	090°00'00"	N 45°15'46" E	56.57
C30	33.45	30.00	063°53'31"	N 31°41'00" E	31.75
C31	55.53	50.00	063°37'45"	S 31°48'52" W	52.72
C32	28.87	26.00	063°37'45"	N 31°48'52" W	27.41
C33	23.01	50.00	026°22'15"	S 13°11'08" E	22.81
C34	11.97	26.00	026°22'15"	N 13°11'08" E	11.86
C35	5.58	21.50	014°52'19"	N 35°04'07" E	5.56
C36	5.58	21.50	014°52'20"	N 17°31'53" W	5.57
C37	26.72	24.00	063°47'22"	S 31°44'04" W	25.36
C38	26.72	24.00	063°47'22"	S 31°44'04" W	25.36

OWNER
DCO ADDISON AT BROOKHAVEN
1745 SHEA CENTER DR STE 200
HIGHLANDS RANCH, COLORADOOWNER
DCO REALTY INC.
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TollFree (888) 937-5150 Plano, TX 75093
westwoodps.comWestwood Professional Services, Inc.
TSPS FIRM REGISTRATION NO. 1-11756
TSPS FIRM REGISTRATION NO. 10074301PRELIMINARY PLAT
VITRUVIAN PARK ADDITION
LOT 1, BLOCK C;5.103 ACRES
OUT OF THE
NOAH GOOD SURVEY, ABSTRACT NO. 520
IN THE
TOWN OF ADDISON
DALLAS COUNTY, TEXAS
TOWN OF ADDISON PROJECT NO. PP2021-01

MAY 03, 2022 JOB NO. 0008445.06 VITRUVIAN PARK ADDITION



LEGEND

LIMITS OF DISTURBANCE

CP 1001 XCUT
N 9229.84
E 11882.75

CP 1002 XCUT SO
N 9627.92
E 12036.40

CP 1003 XCUT
N 9913.22
E 12137.33

BM #1 REF. ELEVATION = 584.37
"X-CUT" SET ON THE BACK OF CURB OF THE SOUTH CURB INLET LOCATED AT THE SOUTHEAST INTERSECTION OF SPRING VALLEY ROAD AND VITRUVIAN WAY.

BM #2 REF. ELEVATION = 567.31
"X-CUT" SET ON THE NOSE OF A MEDIAN LOCATED ON THE SOUTHWEST CENTER MEDIAN LOCATED AT THE INTERSECTION OF VITRUVIAN WAY AND BELLA LANE.

WARNING
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NO.	REVISION			BY	DATE
<div><div>icon</div><div>Consulting Engineers, Inc.2840 W. Southlake Blvd., Suite 110 Civil Engineers - Designers - PlannersSouthlake, Tx 76092 (817) 552-6210 Engineering FirmRegistration Number F-9007</div></div>					
STREETSCAPE & TRAIL IMPROVEMENTS					
VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701					
TOWN OF ADDISON, TEXAS					
OVERALL LAYOUT & PROJECT CONTROL					
DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	OCT 16, 2023	AS NOTED		02

5. GENERAL NOTES FOR EROSION CONTROL

- 5.1.ALL OPERATORS AND/OR CONTRACTORS SHALL CONFORM TO THE TERMS & CONDITIONS OF THE TCEQ TPDES GENERAL PERMIT NO. 150000.
- 5.1.1. THE NOTICE OF INTENT (NOI), AS REQUIRED BY THE GENERAL PERMIT, MUST B PROPERLY DISPLAYED ON THE SITE AT ALL TIMES BY EACH OPERATOR. A COPY O THE NOI MUST BE PROVIDED TO THE PUBLIC WORKS & ENGINEERING SERVICES PRIOR TO START OF CONSTRUCTION.
- 5.1.2. ALL RELEASES OF REPORTABLE QUANTITIES OF HAZARDOUS SUBSTANCES SHAL BE REPORTED IMMEDIATELY TO THE FACILITY OPERATOR, EPA, AND TCEQ.
- 5.1.3. 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.
- 5.2.EROSION CONTROL DEVICES SHALL BE INSTALLED ON ALL PROJECTS PRIOR TO ANY SOIL DISTURBANCE AND SHALL BE MAINTAINED THROUGHOUT THE PROJECT IN A CONDITION ACCEPTABLE TO THE TOWN.
- 5.2.1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTROL AND LIMIT SILT AND SEIDMENT LEAVING THE SITE. SPECIFICALLY , THE CONTRACTOR SHALL PROTECT ALL PUBLIC STREETS, ALLEYS, STREAMS, AND STORM DRANAGE SYSTEM FROM EROSION DEPOSITS.
- 5.2.1.1. QUALIFIED OPERATOR PERSONNEL MUST INSPECT THE SITE WEEKLY, AN WITHIN 24 HRS (BEFORE AND AFTER) A STORM EVEN OF 0.5 INCHES OR GREATER.
- 5.2.1.2. ACCUMULATED SILT DEPOSITS SHALL BE REMOVED FROM SILT FENCES AND HAY BALE DIKES WHEN SILT DEPTH REACHES THREE INCHES (3") OF 25' OF THE HEIGHT OF THE DEVICE (WHICHEVER IS LESS). THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER SO AS NOT TO CONTRIBUTE TO ADDITIONAL SILTATION.
- 5.2.2. THE CONTRACTOR SHALL ADD OR DELETE EROSION PROTECTION AT THE REQUEST AND DIRECTION OF THE OPERATOR OR TOWN.
- 5.2.3. MODIFICATIONS TO THE SWPPP SHALL BE IMPLEMENTED AND IN-PLACE WITHIN A SEVEN CALENDAR DAY PERIOD. ANY MAJOR MODIFICATIONS SHALL BE REVIEWED AND APPROVED BY THE DESIGN ENGINEER AND PUBLIC WORKS & ENGINEERING SERVICES PRIOR TO IMPLEMENTATION.
- 5.3.CONSTRUCTION ENTRANCES AND WASHOUTS
- 5.3.1. ASPHALT BAGS SHALL BE PLACED AT CONSTRUCTION ENTRANCES TO PREVENT CURB DAMAGE.
- 5.3.2. GEOTEXTILE FABRIC SHALL BE PLACED ON SUBGRADE PRIOR TO STONE PLACEMENT FOR CONSTRUCTION ENTRANCES.
- 5.3.3. NO EQUIPMENT SHALL BE CLEANED ON-SITE, OR OTHER LIQUIDS DEPOSITED AND ALLOWED TO FLOW OVERLAND OR SUBTERRANEAN WITHIN THE LIMITS OF

- THE CRITICAL ROOT ZONE OF TREES THAT REMAIN ON SITE. THIS INCLUDES PAINT, OIL, SOLVENTS, ASPHALT, CONCRETE, CONCRETE EQUIPMENT WASH WATER, MORTAR OF SIMILAR MATERIALS.
- 5.4.WASTE DISPOSAL
- 5.4.1. CONTRACTOR SHALL PROVIDE WASTE DISPOSAL CONTAINERS ON THE SITE FOR DISPOSAL OF ALL NON-HAZARDOUS CONSTRUCTION WASTE MATERIALS. THE CONTAINERS SHALL BE HAULED TO THE APPROPRIATE DISPOSAL LOCATION BY THE CONTRACTOR.
- 5.4.2. ALL HAZARDOUS MATERIALS SHALL BE HANDLED AND DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
- 5.5.AFTER INSTALLATION OF PAVEMENT, FINAL LOT BENCHING, AND GENERAL CLEANUP, THE CONTRACTOR SHALL ESTABLISH GRASS GROUNDCOVER IN ALL STREET PARKWAYS, LOTS, AND ALL OTHER DISTURBED AREAS. SODDING SHALL BE DONE AS SPECIFIED BY THE MORE RESTRICTIVE OF CURRENT NCTCOG OR TOWN STANDARDS.
- 5.6.SILT FENCE NOTES.
- 5.6.1. 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". STEEL POSTS SHALL NOT BE USED TO INSTALL EROSION CONTROL MEASURES WITHIN TOWN ROW.
- 5.6.2. 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.
- 5.6.2.1. THE TRENCH MUST BE A MINIMUM OF SIX INCHES (6") DEEP AND SIX INCHES (6") WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
- 5.6.2.2. WHERE THE FENCE CANNOT BE TRENCHED IN (E.G. PAVEMENT), WEIGHT FABRIC FLAP WITH WASHED GRAVEL ON THE UPHILL SIDE TO PREVENT FLOW UNDER FENCE.
- 5.6.3. WIRE REINFORCEMENT SHALL BE USED ON ALL SILT FENCE USED FOR EROSION CONTROL. SILT FENCE SHALL BE SECURELY FASTENED TO EACH SUPPORT POST. THERE SHALL BE A SIX INCH (6") DOUBLE OVERLAP, SECURELY FASTENED, WHERE ENDS OF FABRIC MEET.
- 5.6.4. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

3. GENERAL NOTES FOR WATER AND WASTEWATER SYSTEMS

- 3.1.ALL WATER AND WASTEWATER CONSTRUCTION, TESTING, AND MATERIALS SHALL BE IN ACCORDANCE WITH THE MORE RESTRICTIVE OF THE CURRENT TCEQ REGULATIONS OR THE TOWN'S CURRENT STANDARDS, DETAILS, AND SPECIFICATIONS, UNLESS OTHERWISE NOTED.
- 3.2.TRENCH SAFETY
- 3.2.1. PRIVATE DEVELOPMENT: CONTRACTOR SHALL SUBMIT A TRENCH SAFETY PLAN TO THE DESIGN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE PRE-CONSTRUCTION MEETING.
- 3.2.2. PUBLIC PROJECTS : CONTRACTOR AND/OR DESIGN ENGINEER SHALL SUBMIT A TRENCH SAFETY PLAN AS PART OF THE CIVIL CONSTRUCTION DOCUMENTS PACKAGE.
- 3.3.CONTRACTOR SHALL NOT OPERATE ANY WATER VALVES THAT ARE PART OF THE ACTIVE TOWN OF ADDISON WATER SYSTEM. CONTACT THE TOWN'S PUBLIC WORKS & ENGINEERING SERVICES TO REQUEST VALVE CHANGES.
- 3.4.ANY EXISTING FIRE HYDRANT THAT IS TO BE MODIFIED AND HAS A DATE THAT EXCEEDS 8 YEARS IN AGE SHALL BE REPLACED AND THE OLD FIRE HYDRANT RETURNED TO THE PUBLIC WORKS & ENGINEERING SERVICES BY THE CONTRACTOR AT HIS EXPENSE.
- 3.5.ANY EXISTING MANHOLE WITH AN OPENING SMALLER THAN 30" DIAMETER THAT IS MODIFIED SHALL HAVE THE CONE SECTION, RING, AND COVER REPLACED WITH A MINIMUM OF 30" DIAMETER CONE SECTION, RING, AND COVER BY THE CONTRACTOR AT HIS EXPENSE.

8. GENERAL NOTES FOR TRAFFIC CONTROL

- 8.1.CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL TEMPORARY AND PERMANENT TRAFFIC CONTROL IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE LATEST REVISION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) AND TXDOT BARRICADE AND CONSTRUCTION STANDARDS.
- 8.2.CONTRACTOR SHALL NOT IMPEDE TRAFFIC ON EXISTING STREETS, DRIVEWAYS, ALLEYS, OR FIRE LANES OPEN TO THE PUBLIC. IN THE EVENT THE CONSTRUCTION WORK REQUIRES THE CLOSURE OF AN EXISTING STREET, ALLEY, OR FIRE LANE, THE CONTRACTOR SHALL REQUEST THE ROAD CLOSURE THROUGH THE PUBLIC WORKS & ENGINEERING SERVICES A MINIMUM OF 72 HOURS IN ADVANCE OF THE REQUESTED CLOSURE. CLOSURES WILL NOT BE ALLOWED PRIOR TO 9:00 A.M. OR AFTER 3:30 P.M., MONDAY THROUGH FRIDAY UNLESS OTHERWISE APPROVED BY THE TOWN.


1. GENERAL NOTES FOR ALL CONSTRUCTION ACTIVITIES

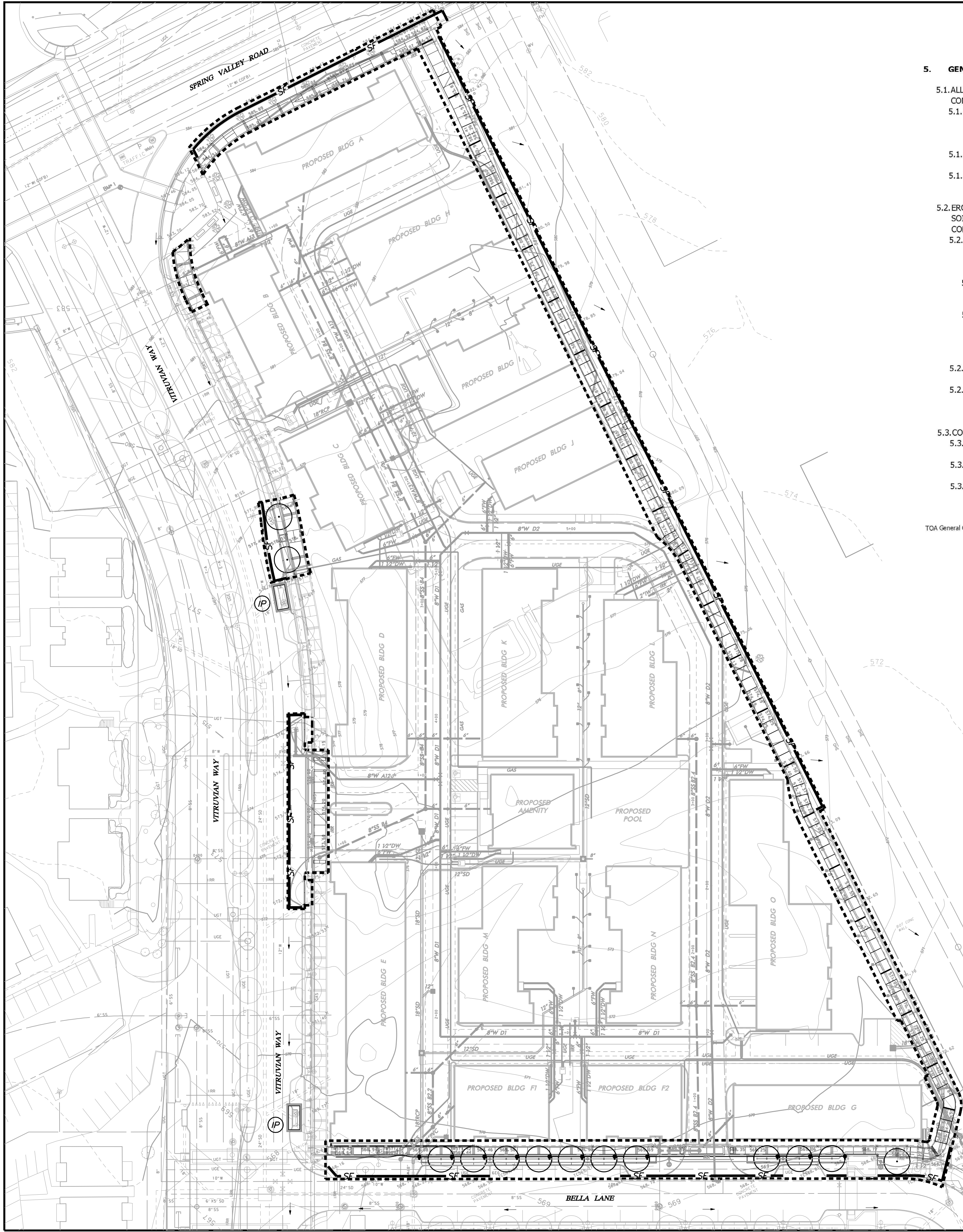
- 1.1.ALL CONSTRUCTION, TESTING, AND MATERIALS SHALL BE IN ACCORDANCE WITH THE TOWN'S CURRENT STANDARDS, DETAILS, AND SPECIFICATIONS. IF NOT EXPLICITLY SPECIFIED IN TOWN DOCUMENTS, NCTCOG OR THE APPROPRIATE GOVERNING BODY'S, STANDARDS AND DETAILS SHALL REGULATE CONSTRUCTION, TESTING, AND MATERIALS.
- 1.2.CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTACT PUBLIC WORKS & ENGINEERING SERVICES DEPARTMENT FOR A PERMIT TO WORK WITHIN TOWN ROW.
- 1.3.ALL SHOP DRAWINGS, WORKING DRAWINGS OR OTHER DOCUMENTS WHICH REQUIRE REVIEW BY THE TOWN, SHALL BE SUBMITTED BY THE CONTRACTOR SUFFICIENTLY IN ADVANCE OF SCHEDULED CONSTRUCTION TO ALLOW NO LESS THAN 21 CALENDAR DAYS FOR REVIEW AND RESPONSE BY THE TOWN.
- 1.4.CONTRACTOR SHALL NOTIFY THE TOWN AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
- 1.5.CONTRACTORS ARE ALLOWED TO MAKE CONNECTIONS TO THE TOWN WATER SYSTEM BY OPENING AN ACCOUNT THROUGH THE ADDISON FINANCE DEPARTMENT AND RENTING A FIRE HYDRANT METER. THE COMPANY OR INDIVIDUAL IS SOLELY RESPONSIBLE FOR THE COST, MAINTENANCE, PROPER USE, AND SECURITY OF THE RENTAL EQUIPMENT. THE COMPANY OR INDIVIDUAL IS ALSO RESPONSIBLE FOR THE COST OF THE WATER USED.
- 1.6.CONTRACTOR MUST KEEP AVAILABLE ONSITE, AT ALL TIMES, APPROVED CONSTRUCTION PLANS AND COPIES OF ANY/ALL REQUIRED PERMITS ALONG WITH THE APPROPRIATE VERSIONS OF THE FOLLOWING APPLICABLE REFERENCES:
- 1.6.1. TOWN OF ADDISON ENGINEERING STANDARDS & DETAILS
- 1.6.2. NCTCOG STANDARDS & SPECIFICATIONS
- 1.6.3. TCEQ STANDARDS & SPECIFICATIONS
- 1.6.4. TXDOT SPECIFICATIONS & STANDARD DRAWINGS, AS APPLICABLE.
- 1.7.CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CONSTRUCTION SURVEYING AND STAKING AND SHALL NOTIFY THE DESIGN ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH ANY WORK.
- 1.8.CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL SURVEY MARKERS INCLUDING IRON RODS, PROPERTY CORNERS, OR SURVEY MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION AND OUTSIDE ROW DURING CONSTRUCTION. ANY SURVEY MARKERS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE TOWN.
- 1.9.TESTING AND INSPECTION OF MATERIALS SHALL BE PERFORMED BY A COMMERCIAL TESTING LABORATORY SPECIFIED BY OR APPROVED BY THE TOWN. CONTRACTOR SHALL FURNISH MATERIALS OR SPECIMENS FOR TESTING AND SHALL FURNISH SUITABLE EVIDENCE THAT THE MATERIALS PROPOSED TO BE INCORPORATED INTO

THE WORK ARE IN ACCORDANCE WITH THE SPECIFICATIONS. COPIES OF TESTING REPORTS SHALL BE FURNISHED TO THE TOWN IMMEDIATELY UPON RECEIPT BY THE CONTRACTOR.

- 1.10. FOR PUBLIC PROJECTS, CONTRACTOR SHALL PROVIDE A CONSTRUCTION SCHEDULE AND WEEKLY PROGRESS REPORTS.
- 1.11. CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS AND DRIVEWAYS ADJACENT TO THE PROJECT FREE OF DIRT, MUD, AND DEBRIS AT ALL TIMES. CONTRACTOR SHALL CLEAN UP AND REMOVE ALL LOOSE MATERIAL RESULTING FROM CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST.
- 1.12. THE EXISTENCE AND LOCATIONS OF THE PUBLIC AND FRANCHISE UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM AVAILABLE RECORDS AND ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE DEPTH AND LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATING, TRENCHING, OR DRILLING AND SHALL BE REQUIRED TO TAKE ANY PRECAUTIONARY MEASURES TO PROTECT ALL LINES SHOWN AND / OR ANY OTHER UNDERGROUND UTILITIES NOT OF RECORD OR NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PUBLIC AGENCIES AND FRANCHISE UTILITIES 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR MAY BE REQUIRED EXPOSE THESE FACILITIES AT NO COST TO THE TOWN. THE CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO UTILITIES IF THE DAMAGE IS CAUSED BY NEGLIGENCE OR FAILURE TO HAVE LOCATES PERFORMED.
- 1.13. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES OR ADJACENT PROPERTIES DURING CONSTRUCTION. ANY REMOVAL OR DAMAGE TO EXISTING FACILITIES SHALL BE REPLACED OR REPAIRED TO EQUAL OR BETTER CONDITION BY THE CONTRACTOR.
- 1.14. CONTRACTOR SHALL NOT STORE MATERIALS, EQUIPMENT OR OTHER CONSTRUCTION ITEMS ON ADJACENT PROPERTIES OR RIGHT-OF-WAY WITHOUT THE PRIOR WRITTEN CONSENT OF THE PROPERTY OWNER AND/OR THE TOWN, AS APPLICABLE.
- 1.15. TEMPORARY FENCING SHALL BE INSTALLED PRIOR TO THE REMOVAL OF EXISTING FENCING. TEMPORARY FENCING SHALL BE REMOVED AFTER PROPOSED FENCING IS APPROVED BY THE TOWN. ALL TEMPORARY AND PROPOSED FENCING LOCATIONS SHALL BE SUBJECT TO FIELD REVISIONS AS DIRECTED BY THE TOWN.
- 1.16. UNUSABLE EXCAVATED MATERIAL, OR CONSTRUCTION DEBRIS SHALL BE IMMEDIATELY REMOVED AND DISPOSED OF OFFSITE AT AN APPROVED DISPOSAL FACILITY BY THE CONTRACTOR AT HIS EXPENSE.
- 1.17. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN A NEAT AND ACCURATE RECORD OF CONSTRUCTION FOR THE TOWN'S RECORDS.



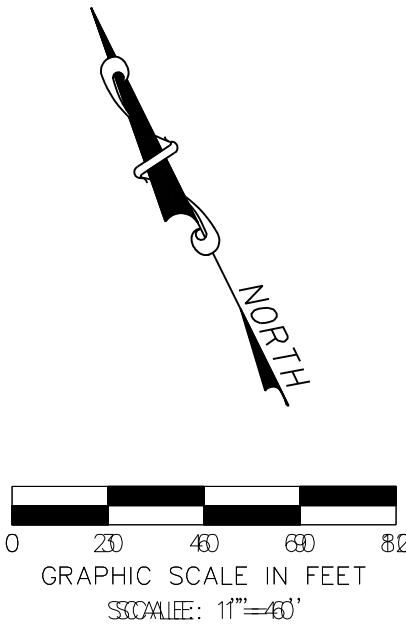
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TOA General Construction Notes | 01/2022

9

TOA General Construction Notes | 01/2022

10

LEGEND

- LIMITS OF DISTURBANCE -----
- INLET PROTECTION (IP) [Symbol]
- FINISHED SLOPE [Symbol]
- SPOT ELEVATION (TOP OF GROUND/PAVEMENT) x525.80
- SILT FENCE SF [Symbol]
- STABILIZED CONSTRUCTION ENTRANCE (CE) [Symbol]

NOTE: THIS AREA IS HIGHLY SENSITIVE TO EROSION AND ALL REQUIRED PRECAUTIONS, SHOWN OR NOT SHOWN, MUST BE STRICTLY ADHERED TO AND MAINTAINED AT ALL TIMES

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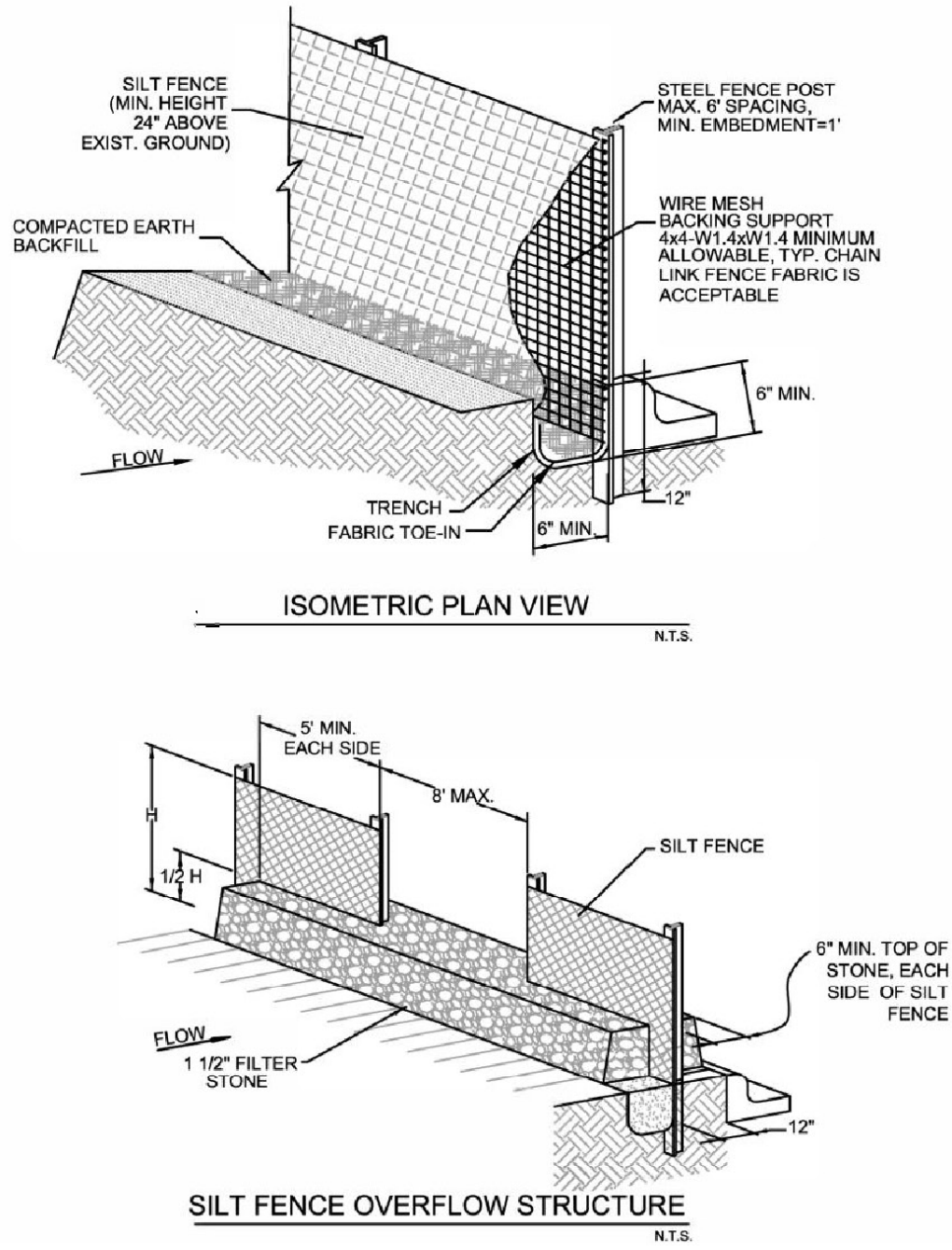
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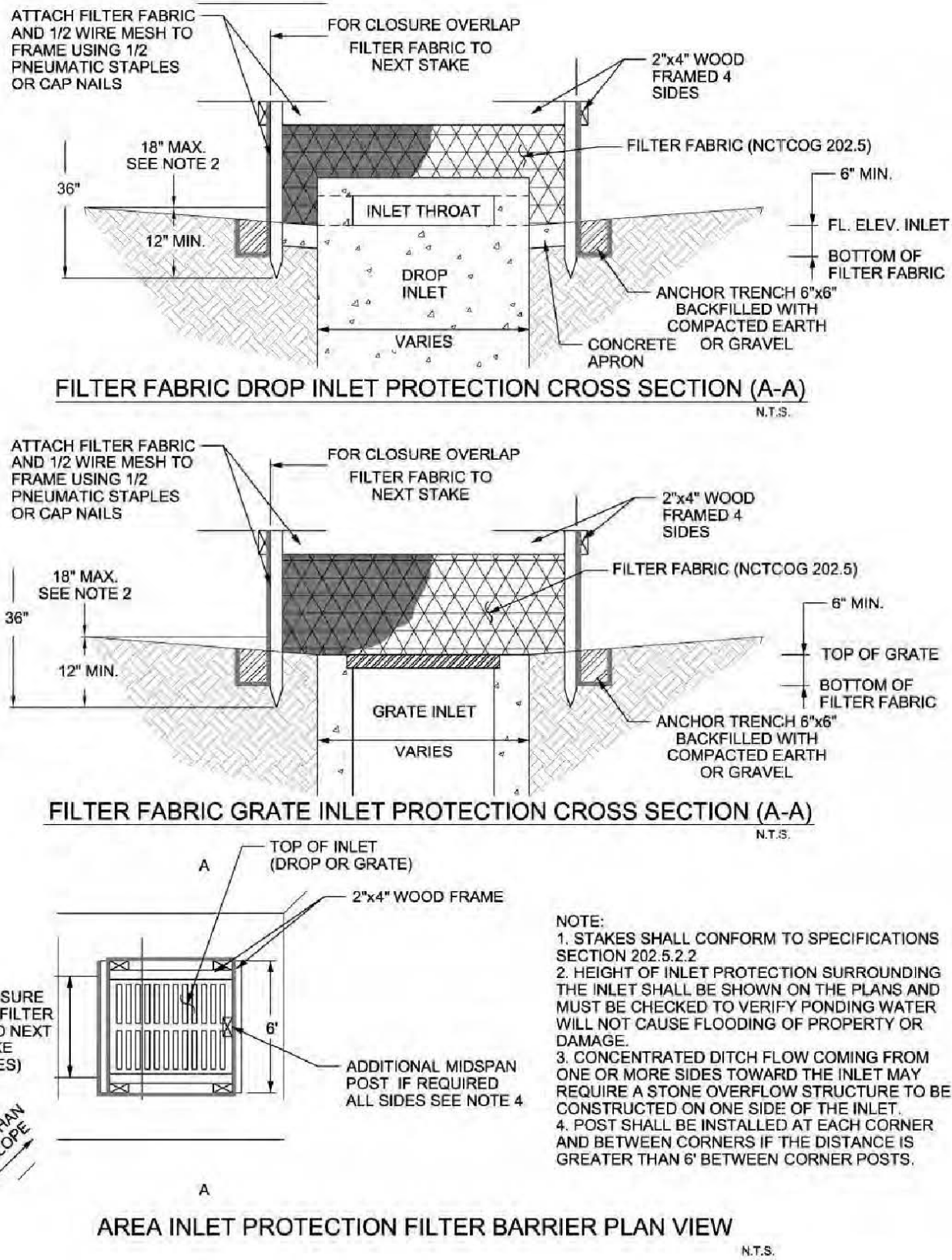
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TOWN OF ADDISON, TEXAS				
EROISION & SEDIMENT CONTROL PLAN				
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ICE	ICE	OCT 16, 2023	AS NOTED	
Sheet No.				04



- SILT FENCE GENERAL NOTES:**
- DESIGN SHALL SHOW ON THE DRAWINGS THE LOCATIONS WHERE OVERFLOW STRUCTURES SHALL BE INSTALLED. OVERFLOW STRUCTURES ARE REQUIRED AT ALL LOW POINTS AND AT A SPACING OF APPROXIMATELY 300 FEET WHERE NO LOW POINT IS APPARENT.
 - DESIGNER SHALL SHOW ON THE DRAWINGS THE LOCATIONS WHERE SILT FENCE IS TO BE TURNED UPSLOPE AT THE ENDS. UPSLOPE LENGTHS SHALL BE A MINIMUM OF 10 FEET.
 - POST WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
 - 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.
 - 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.
 - SILT FENCE SHOULD BE SECURELY FASTENED TO EACH SUPPORT POST OR TO WIRE BACKING, WHICH IN TURN IS ATTACHED TO THE FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
 - INSPECTION SHALL BE AS SPECIFIED IN THE SWPPP. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 - SILT FENCE SHALL BE REMOVED WHEN FINAL STABILIZATION IS ACHIEVED OR ANOTHER EROSION OR SEDIMENT CONTROL DEVICE IS EMPLOYED.
 - ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.
 - SEE NCTCOG STANDARD SPECIFICATIONS (2017), SECTION 202.5

Revised 2018

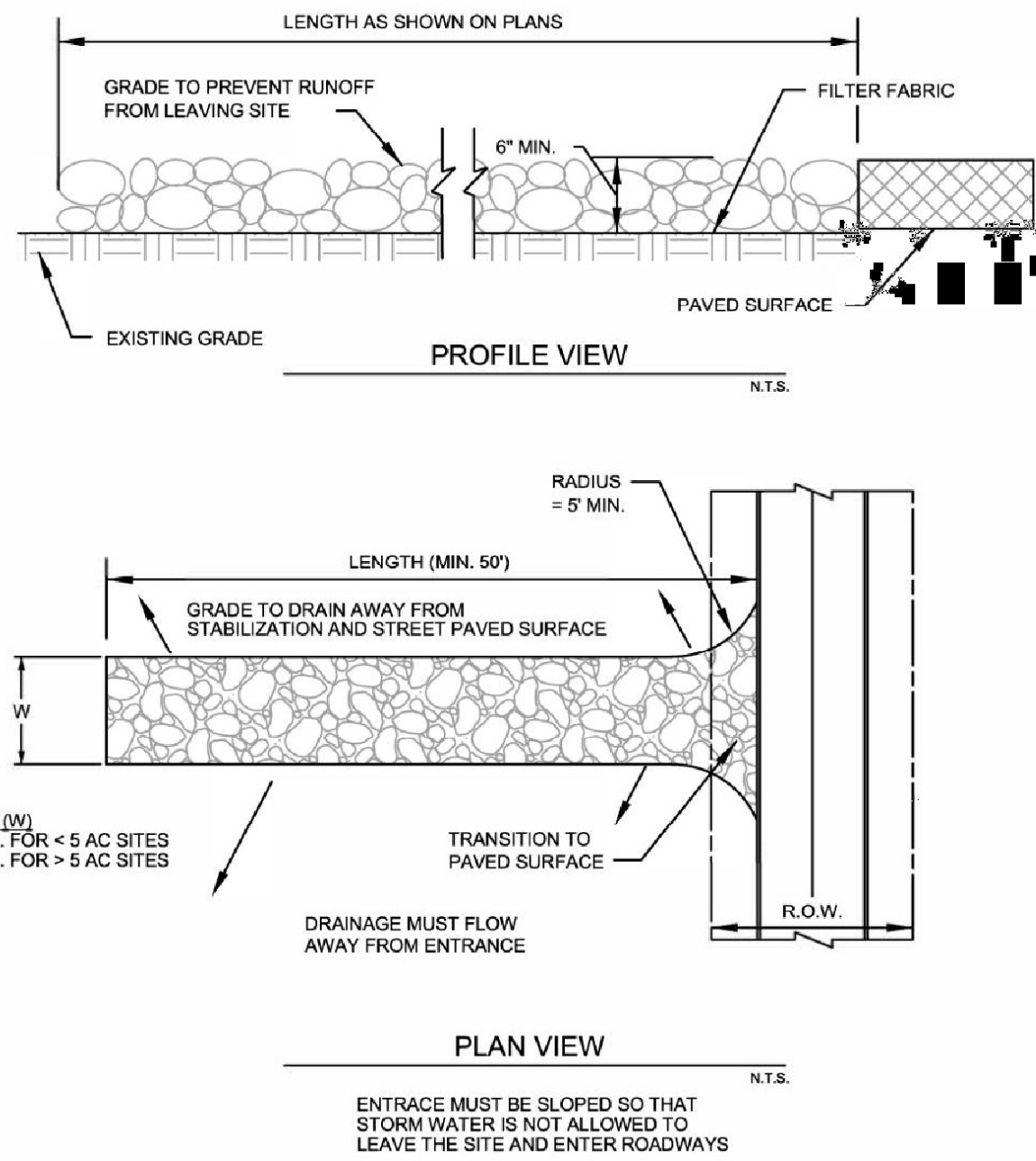
Figure 3.30 Schematics of Silt Fence



Revised 2019

Figure 3.12 Schematics of Filter Fabric Area Inlet Protection
(Source: City of Plano BMP SP-4)

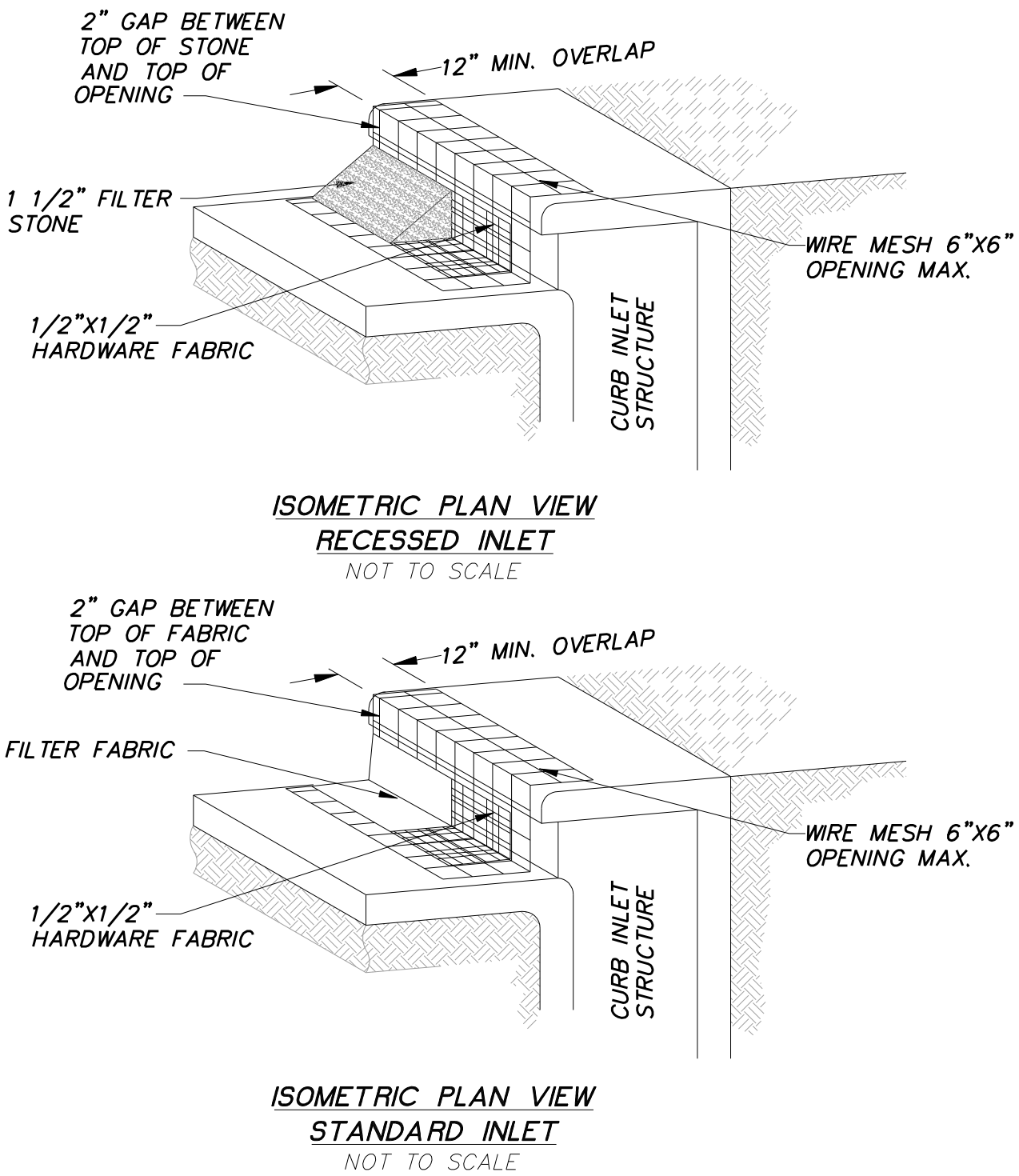
- STABILIZED CONSTRUCTION ENTRANCE GENERAL NOTES:**
- SEE NCTCOG STANDARD SPECIFICATIONS (2017), SECTION 202.11
 - THE THICKNESS SHALL NOT BE LESS THAN 6 INCHES.
 - STONE SHALL BE 3 TO 5 INCH DIAMETER COURSE AGGREGATE, NO CRUSHED PORTLAND CEMENT CONCRETE ALLOWED.
 - LENGTH SHALL BE SHOWN ON PLANS, WITH A MINIMUM LENGTH OF 50 FEET.
 - THE WIDTH SHALL BE NO LESS THAN 20' FOR SITES LESS THAN 5 AC, AND 30' FOR SITES GREATER THAN 5 AC, AT ALL POINTS OF INGRESS OR EGRESS.
 - 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 AN 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.
 - 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.
 - THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
 - INSPECTION SHALL BE SPECIFIED IN THE SWPPP.



Revised 2018

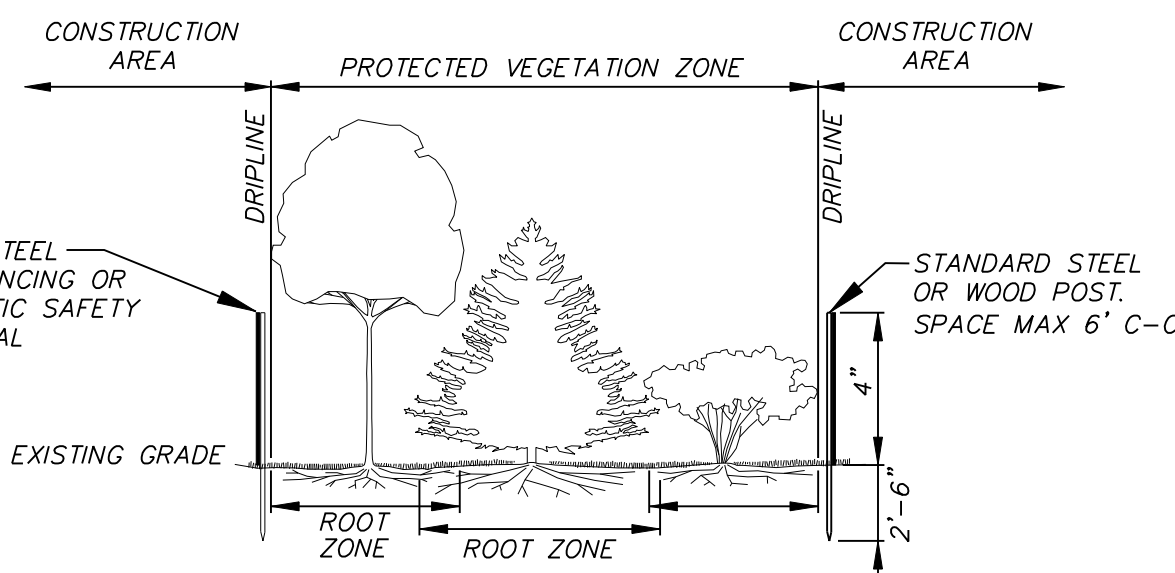
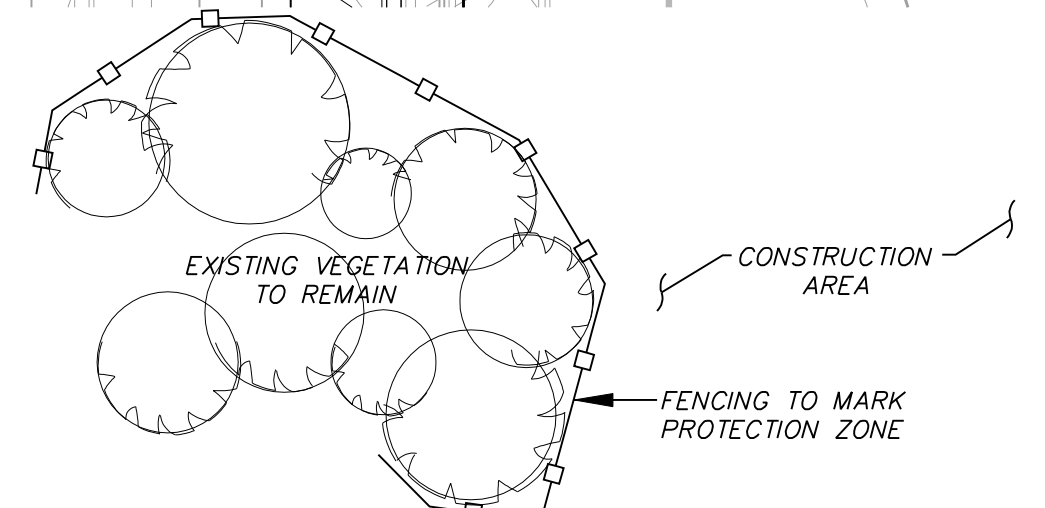
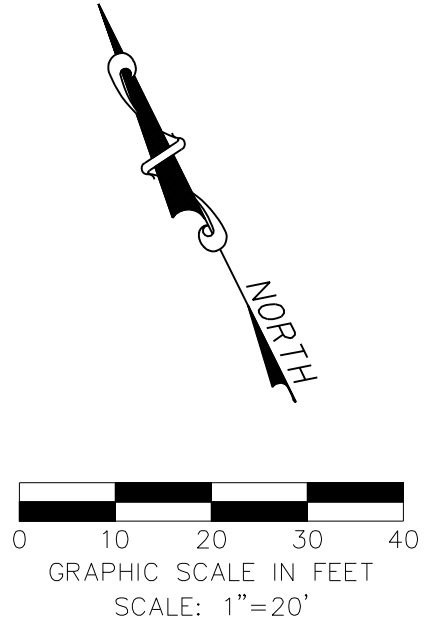
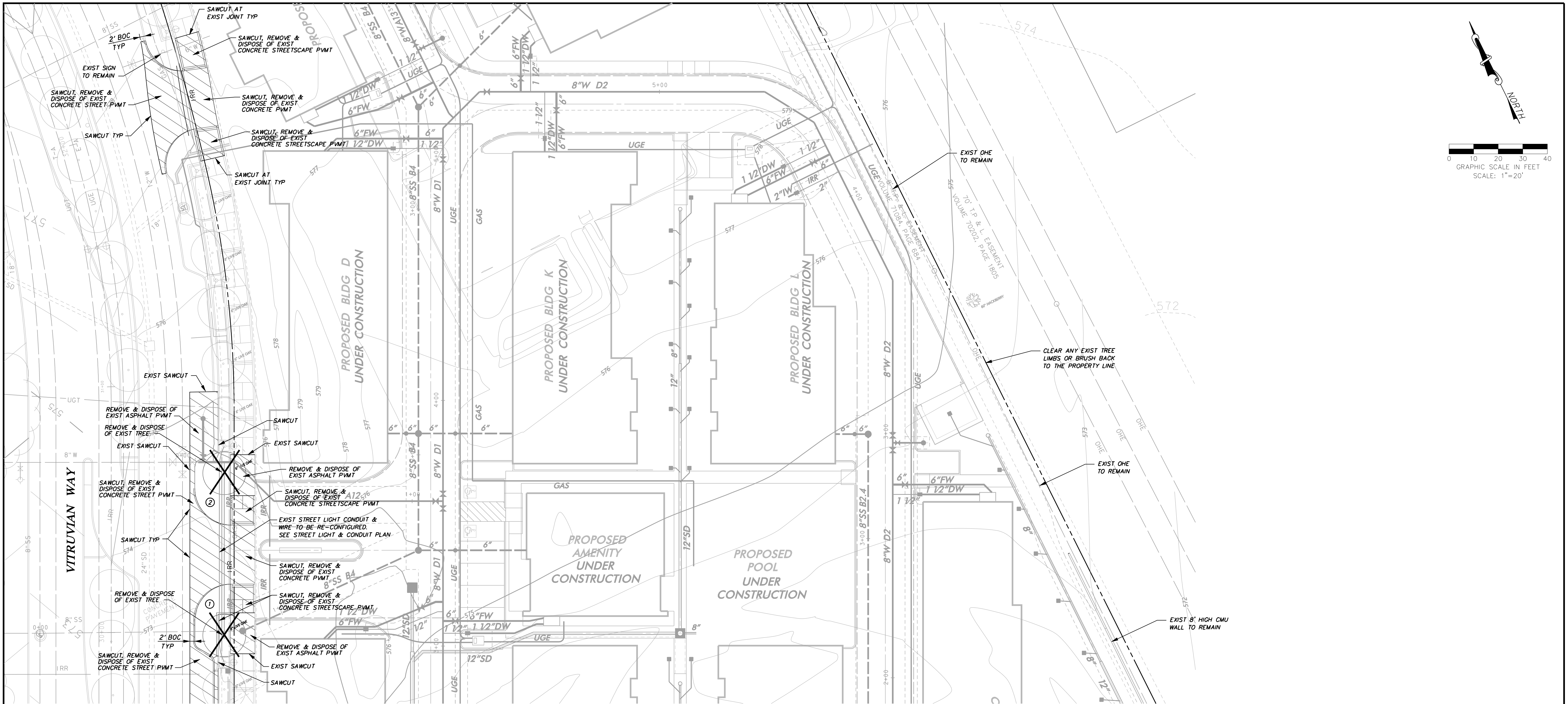
Figure 3.32 Schematics of Stabilized Construction Exit

- NOTES:**
- MATERIAL SPECIFICATIONS:**
 - A. CONCRETE BLOCK--ASTM C 139, CONCRETE MASONRY UNIT FOR CONSTRUCTION.
 - B. WIRE FABRIC--STANDARD GALVANIZED HARDWARE FABRIC WITH 1/2\"
 - 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.
 - DO NOT USE A SEDIMENT FILTER TO CONTROL EROSION AROUND "Y" INLETS, UTILIZE SEDIMENT FENCES.
 - EXTEND MESH, FABRIC AND FILTER STONE 12\"



CURB INLET PROTECTION
NOT TO SCALE

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TREE PROTECTION & LIMITS OF DISTURBANCE FENCING DETAIL
NOT TO SCALE

NOTE: SEE 'NORTH' SHEET FOR SPECIFIC NOTES THAT APPLY TO THIS SHEET

LEGEND

- REMOVE & DISPOSE OF EXISTING ASPH PAVEMENT, CONC CURB & GUTTER AND CONC SIDEWALK
- REMOVE & DISPOSE OF EXIST TREE
- TREE PROTECTION FENCE

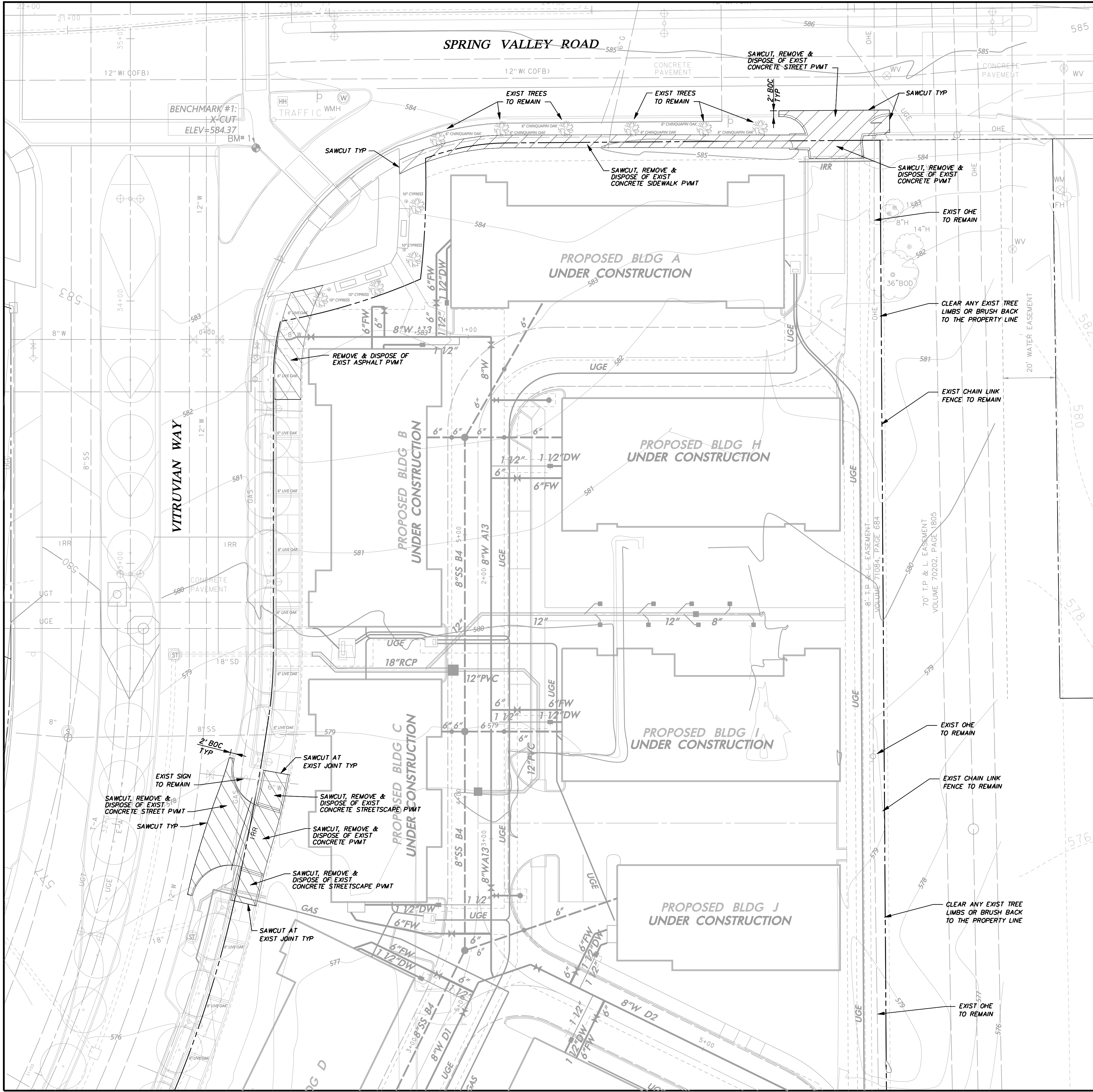
BM #1 REF. ELEVATION = 584.37
"X-CUT" SET ON THE BACK OF CURB OF THE SOUTH CURB INLET LOCATED AT THE SOUTHEAST INTERSECTION OF SPRING VALLEY ROAD AND VITRUVIAN WAY.

BM #2 REF. ELEVATION = 567.31
"X-CUT" SET ON THE NOSE OF A MEDIAN LOCATED ON THE SOUTHWEST CENTER MEDIAN LOCATED AT THE INTERSECTION OF VITRUVIAN WAY AND BELLA LANE.

WARNING
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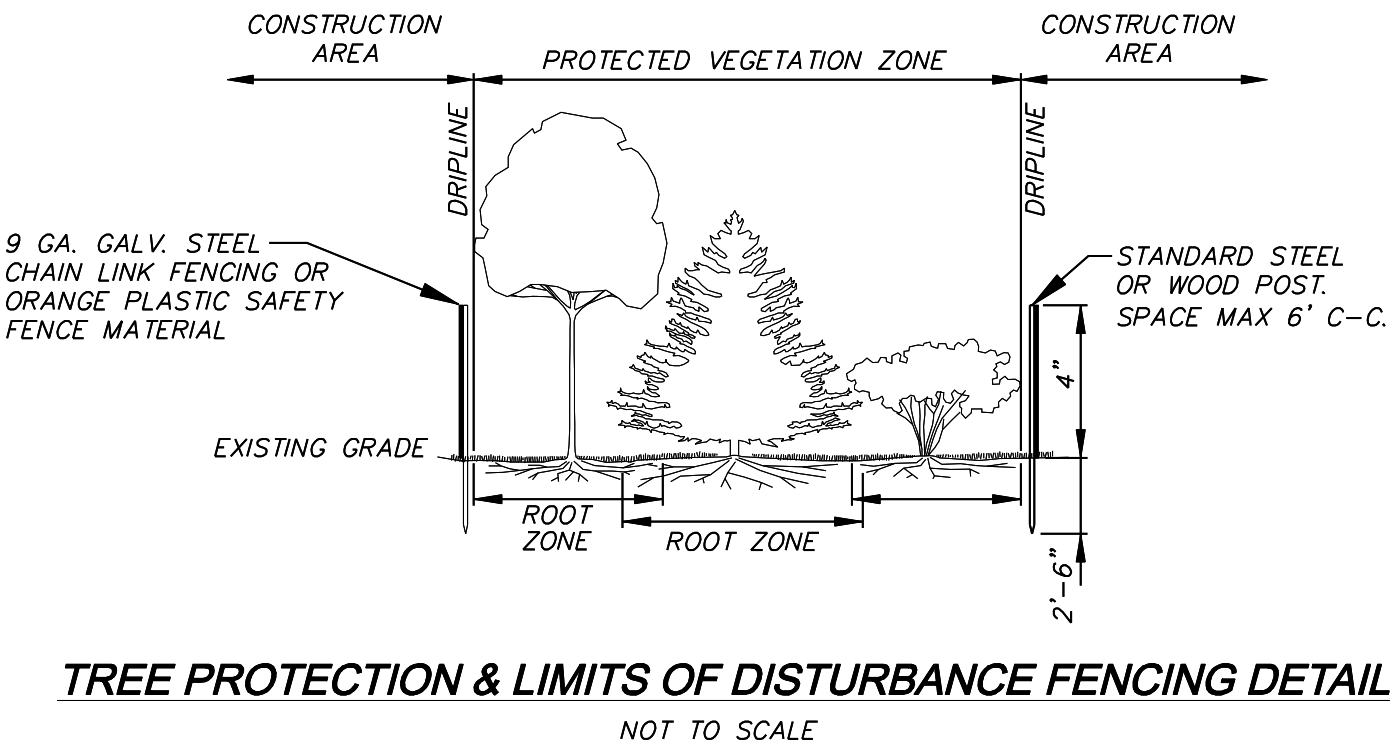
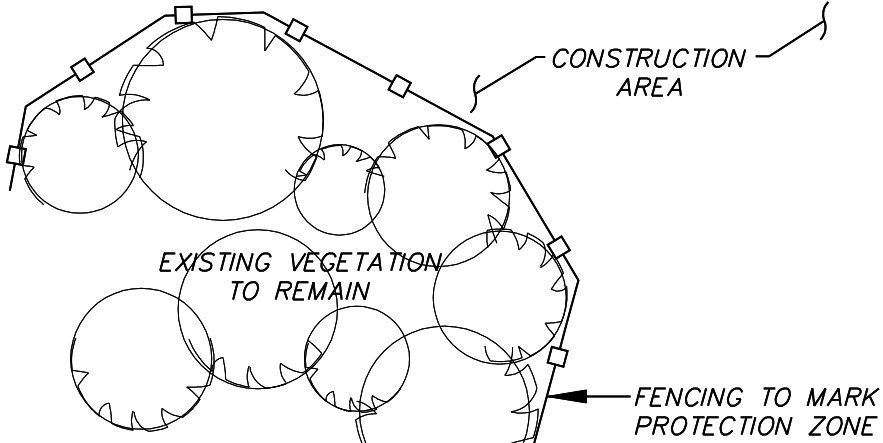


DEMOLITION NOTES:

- GENERAL CONSTRUCTION NOTES:** REFER TO SHEET 03 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THE PROJECT.
- 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.
- 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.
- 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.
- 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 APPARUSES USED BY EACH UTILITY. ALL WORK ASSOCIATED WITH FRANCHISE UTILITY REMOVAL RELOCATION AND/OR MODIFICATIONS ARE TO BE PERFORMED ONLY BY THAT UTILITY PROVIDER UNLESS SPECIFICALLY NOTED OTHERWISE.
- 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. A TREE REMOVAL PERMIT IS REQUIRED IN THE TOWN OF ADDISON.
- 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.
- BACKFILLING:** THE CONTRACTOR SHALL BACKFILL ALL EXCAVATED AREAS CAUSED AS A RESULT OF DEMOLITION, AND PROVIDE POSITIVE DRAINAGE TO PREVENT PONDING OF WATER.
- 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.
- REPLACEMENT OF DAMAGED FACILITIES:** ALL STRUCTURES, 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.
- ACCESS TO PROPERTIES:** DURING THE CONSTRUCTION OF THIS PROJECT, STREET AND SIDEWALK ACCESS TO ADJUTING PROPERTIES MUST BE MAINTAINED AT ALL TIMES.
- 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.
- 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.
- 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

- REMOVE & DISPOSE OF EXISTING ASPH PAVEMENT, CONC CURB & GUTTER AND CONC SIDEWALK
- REMOVE & DISPOSE OF EXIST TREE
- TREE PROTECTION FENCE



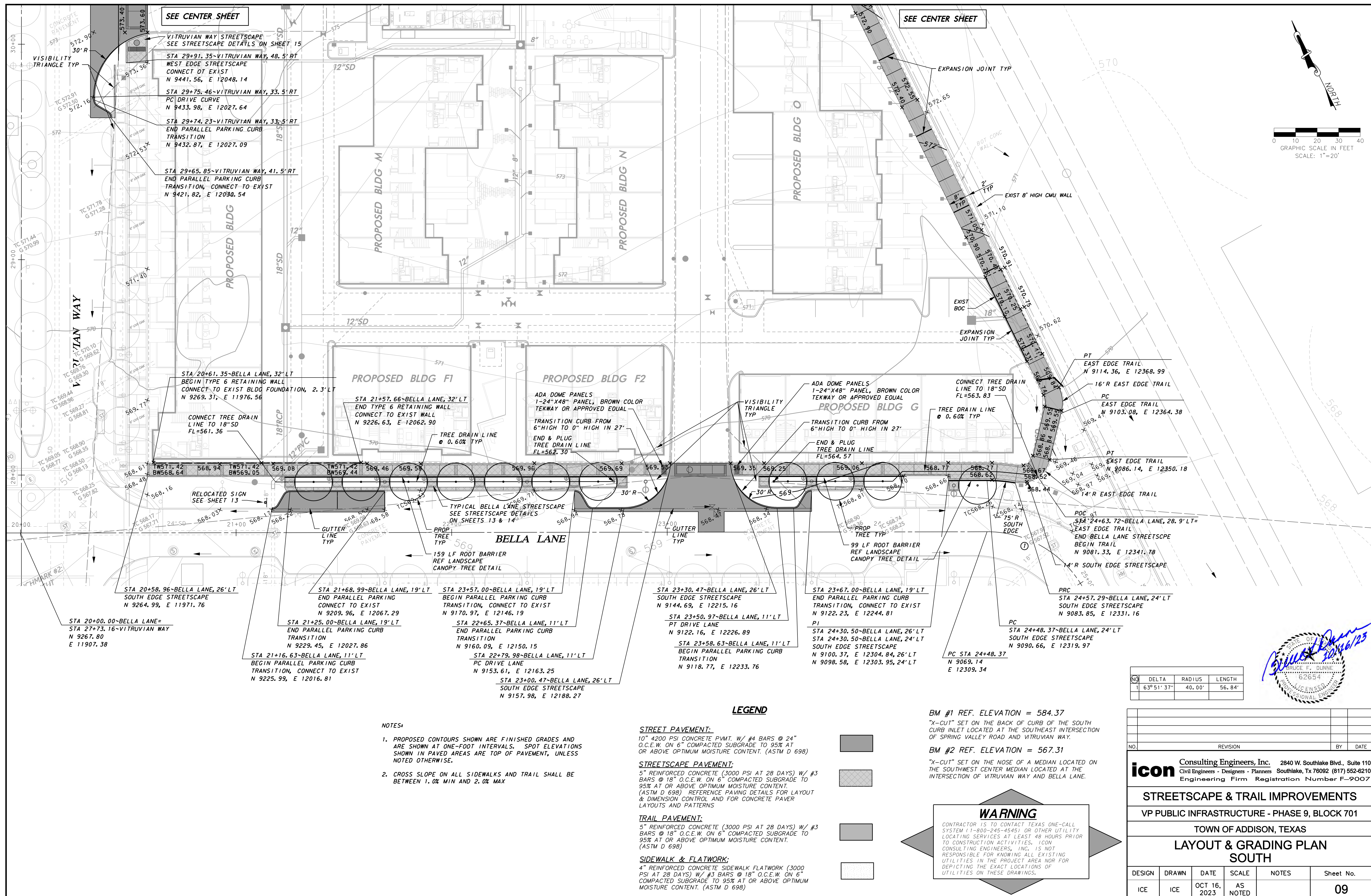
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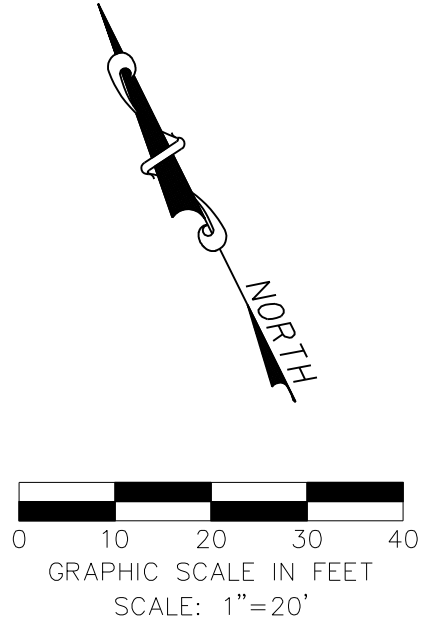
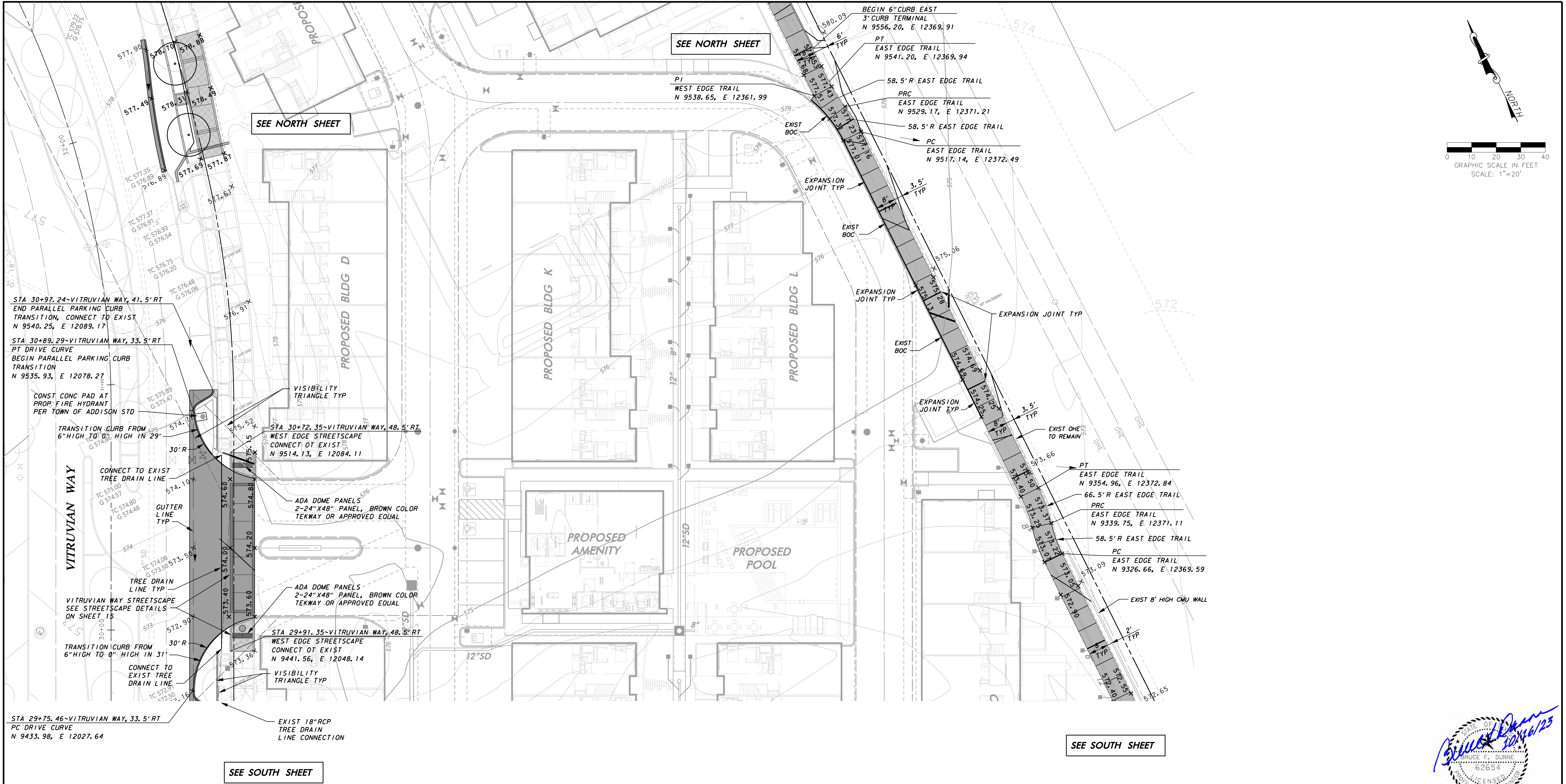
BM #2 REF. ELEVATION = 567.31
"X-CUT" SET ON THE NOSE OF A MEDIAN LOCATED ON THE SOUTHWEST CENTER MEDIAN LOCATED AT THE INTERSECTION OF VITRUVIAN WAY AND BELLA LANE.

WARNING

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NOTES:

1. PROPOSED CONTOURS SHOWN ARE FINISHED GRADES AND ARE SHOWN AT ONE-FOOT INTERVALS. SPOT ELEVATIONS SHOWN IN PAVED AREAS ARE TOP OF PAVEMENT, UNLESS NOTED OTHERWISE.
2. CROSS SLOPE ON ALL SIDEWALKS AND TRAIL SHALL BE BETWEEN 1.0% MIN AND 2.0% MAX

LEGEND

STREET PAVEMENT:

10" 4200 PSI CONCRETE P.W.T. W/ #4 BARS @ 24" O.C.E.W. ON 6" COMPACTED SUBGRADE TO 95% AT OR ABOVE OPTIMUM MOISTURE CONTENT. (ASTM D 698)

STREETSCAPE PAVEMENT:

5" REINFORCED CONCRETE (3000 PSI AT 28 DAYS) W/ #3 BARS @ 18" O.C.E.W. ON 6" COMPACTED SUBGRADE TO 95% AT OR ABOVE OPTIMUM MOISTURE CONTENT. (ASTM D 698) REFERENCE PAVING DETAILS FOR LAYOUT & DIMENSION CONTROL AND FOR CONCRETE PAVER LAYOUTS AND PATTERNS

TRAIL PAVEMENT:

5" REINFORCED CONCRETE (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)

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)

BM #1 REF. ELEVATION = 584.37

"X-CUT" SET ON THE BACK OF CURB OF THE SOUTH CURB INLET LOCATED AT THE SOUTHEAST INTERSECTION OF SPRING VALLEY ROAD AND VITRUVIAN WAY.

BM #2 REF. ELEVATION = 567.31

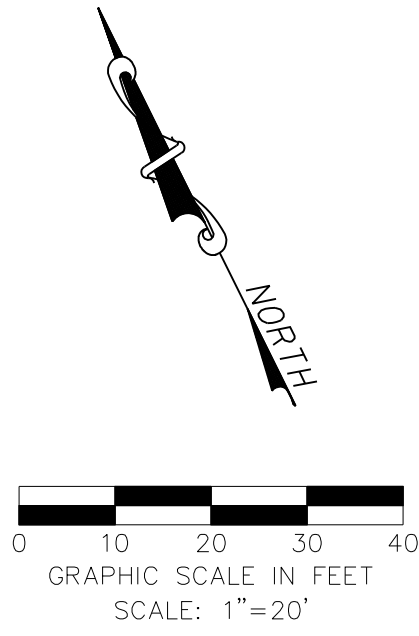
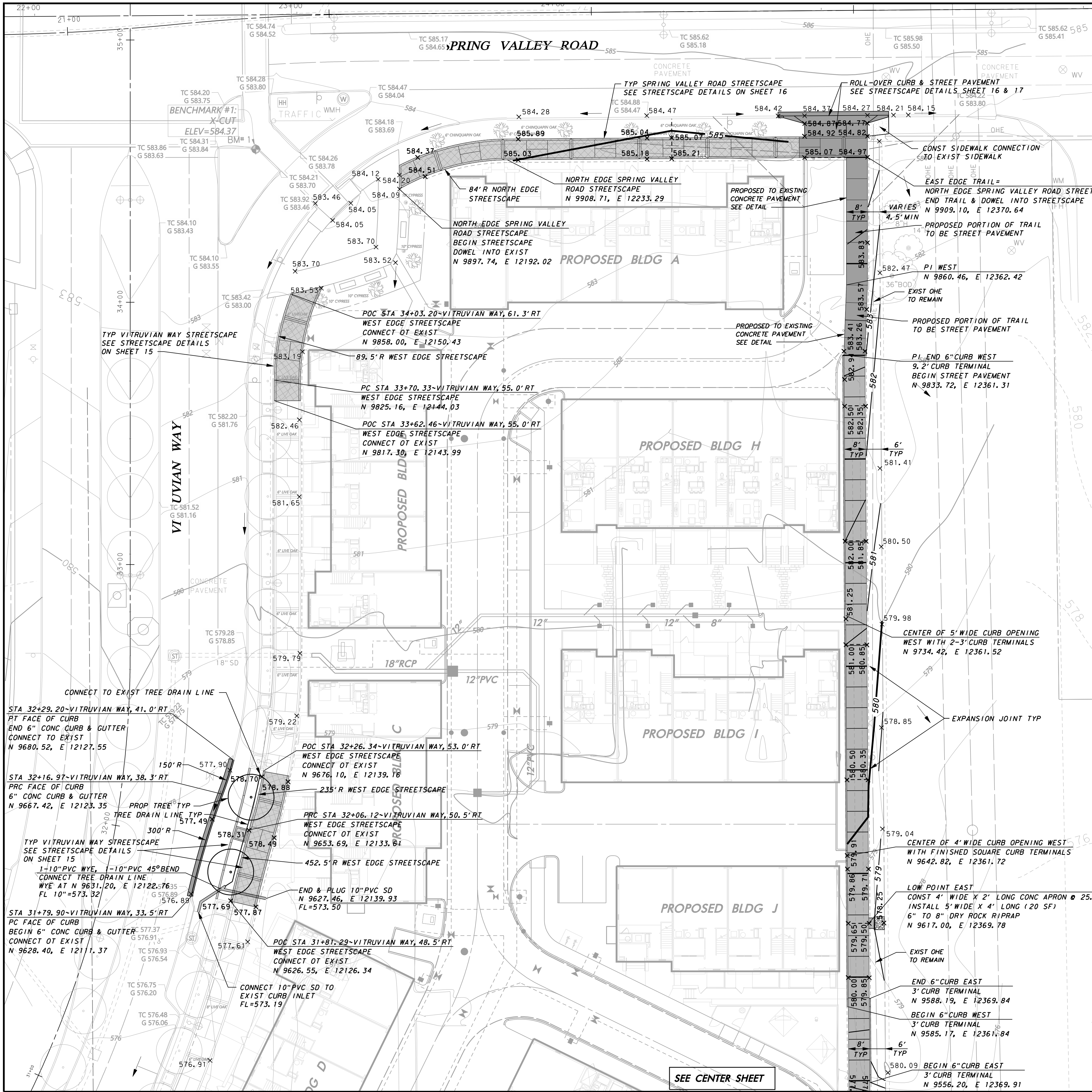
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 2. CROSS SLOPE ON ALL SIDEWALKS AND TRAIL SHALL BE BETWEEN 1.0% MIN AND 2.0% MAX

LEGEND

- STREET PAVEMENT:**
10" 4200 PSI CONCRETE PMVT. W/ #4 BARS @ 24" O.C.E.W. ON 6" COMPACTED SUBGRADE TO 95% AT OR ABOVE OPTIMUM MOISTURE CONTENT. (ASTM D 698)
- STREETSCAPE PAVEMENT:**
5" REINFORCED CONCRETE (3000 PSI AT 28 DAYS) W/ #3 BARS @ 18" O.C.E.W. ON 6" COMPACTED SUBGRADE TO 95% AT OR ABOVE OPTIMUM MOISTURE CONTENT. (ASTM D 698) REFERENCE PAVING DETAILS FOR LAYOUT & DIMENSION CONTROL AND FOR CONCRETE PAVER LAYOUTS AND PATTERNS
- TRAIL PAVEMENT:**
5" REINFORCED CONCRETE (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)
- 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)



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GENERAL GRADING AND PAVING NOTES:

1. REFER TO SHEET 3 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THIS PROJECT.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH STANDARD SPECIFICATIONS AS PUBLISHED BY NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, AND ANY AND ALL AMENDMENTS BY THE TOWN OF ADDISON, AS WELL AS STANDARD CONSTRUCTION DETAILS OF THE TOWN OF ADDISON.
3. PRIOR TO COMMENCING CONSTRUCTION, THE TOWN OF ADDISON, THE CONSULTING ENGINEERS, THE SUCCESSFUL CONTRACTOR, UTILITY COMPANIES, AND ANY OTHER AFFECTED PARTIES, SHALL CONVENE FOR A PRE-CONSTRUCTION CONFERENCE AT LEAST 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.
4. THE CONTRACTOR SHALL OBTAIN A RIGHT-OF-WAY PERMIT FROM THE TOWN OF ADDISON PRIOR TO WORKING WITHIN THE PUBLIC RIGHT-OF-WAY.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ANY PUBLIC UTILITY COMPANIES FOR LOCATION OF EXISTING FACILITIES IN OR NEAR THE WORK AREAS. THESE INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
- TOWN OF ADDISON (WATER, SEWER, SIGNALS)
ONCOR ELECTRIC DELIVERY
AT&T (SOUTHWESTERN BELL)
CHARTER CABLE

ATMOS ENERGY (GAS)
VERIZON / MCI
TIME-WARNER CABLE
6. THE CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE ENGINEER (SIX SETS EACH), FOR APPROVAL OF ALL MATERIALS TO BE ADDED TO THE PUBLIC INFRASTRUCTURE, PRIOR TO INCORPORATING MATERIALS INTO THE JOB.
7. THE CONTRACTOR SHALL EXECUTE A "PAYMENT, PERFORMANCE AND MAINTENANCE BOND" PRIOR TO WORKING WITHIN THE PUBLIC RIGHT-OF-WAY.
8. THE CONTRACTOR SHALL PROVIDE A MAINTENANCE BOND FOR PUBLIC INFRASTRUCTURE WORK IN THE FOLLOWING AMOUNTS:
- 100% FOR VALUATIONS LESS THAN OR EQUAL TO \$5,000.
 - \$5,000 FOR VALUATION GREATER THAN \$5,000. AND LESS THAN \$50,000.
 - 10% FOR VALUATIONS GREATER THAN \$50,000.
- BONDS SHALL BE FOR A PERIOD OF TWO YEARS BEGINNING WITH THE DATE OF FINAL ACCEPTANCE BY THE TOWN.
9. THE CONTRACTOR SHALL FULLY COMPLY WITH, AND SUPPLEMENT AS NECESSARY, THE CONDITIONS OF THE STORM WATER POLLUTION PREVENTION PLAN WHILE CONDUCTING HIS ACTIVITIES ON THIS PROJECT.
10. THE TOWN OF ADDISON INFRASTRUCTURE DEPARTMENT WILL APPROVE AND/OR DETERMINE THE TRAFFIC CONTROL PLAN AND WORKING HOURS. CONTACT THE CITY ENGINEER AT (972) 450-2849 OR THE INFRASTRUCTURE INSPECTOR AT (972) 450-2847. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IMPLEMENT, AND SUPPLEMENT AS NECESSARY, THE TRAFFIC CONTROL MEASURES ON THIS PROJECT, INCLUDING PROVIDING ADEQUATE FLAGMEN, SIGNAGE, STRIPING AND WARNING DEVICES, ETC., DURING CONSTRUCTION IN ACCORDANCE WITH THE TEXAS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE LANE OF TRAFFIC IN EACH DIRECTION DURING WORKING HOURS OR PROVIDE AN ALL-WEATHER DETOUR AROUND THE CONSTRUCTION SITE, INCLUDING PUBLIC NOTIFICATION AND SIGNING.
11. TEMPORARY OR PERMANENT BARRICADES SHALL REMAIN AT ALL POINTS OF INGRESS OR EGRESS TO PREVENT PUBLIC USE UNTIL THE WORK RECEIVES FINAL ACCEPTANCE.
12. THE TOWN OF ADDISON WILL PROVIDE A GEOTECHNICAL LABORATORY TO PERFORM APPROPRIATE TESTING DURING CONSTRUCTION ACTIVITIES. ALL EARTHWORK OPERATIONS SHALL BE OBSERVED AND TESTED ON A CONTINUING BASIS BY THE GEOTECHNICAL ENGINEER FOR CONFORMANCE WITH THE REQUIREMENTS SET FORTH IN THE GEOTECHNICAL STUDY WHICH IS MADE A PART OF THESE CONSTRUCTION DOCUMENTS. ANY TEST THAT FAILS TO MEET CITY REQUIREMENTS SHALL BE RETESTED AT THE CONTRACTOR'S EXPENSE.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE AT ALL TIMES DURING CONSTRUCTION, INCLUDING PROVIDING ALL TEMPORARY STRUCTURES OR IMPROVEMENTS AS NESCESSARY FOR THE SAFETY OF THE PUBLIC.
14. ANY ADJACENT PROPERTIES AFFECTED BY THE CONTRACTOR'S CONSTRUCTION OPERATIONS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS, OR BETTER. THIS INCLUDES MEDIANS IN THE TOWN RIGHT OF WAY.
15. AREAS TO BE PAVED AND ALL AREAS THAT ARE TO RECEIVE FILL MATERIAL SHALL BE STRIPPED OF VEGETATION, TREES, ROOTS, STUMPS, DEBRIS, AND OTHER ORGANIC MATERIAL. THE DEPTH OF STRIPPING IS ESTIMATED TO BE ON THE ORDER OF 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 STOCKPILED IN A LOCATION ON-SITE APPROVED BY THE ENGINEER. ALL TREES, INCLUDING STUMPS AND ROOT SYSTEMS, VEGETATION, DEBRIS AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OFF-SITE. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS GOVERNING SPILLAGE OF DEBRIS WHILE TRANSPORTING TO A DISPOSAL SITE. ALL COSTS ASSOCIATED WITH DISPOSAL OF MATERIAL SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
16. BURNING SHALL NOT BE PERMITTED ON THE PROJECT SITE UNLESS APPROVED IN WRITING BY THE GOVERNING AUTHORITIES.
17. UPON COMPLETION OF STRIPPING OPERATIONS, AND PRIOR TO PLACEMENT OF ANY FILL MATERIALS, THE STRIPPED AREAS SHOULD BE OBSERVED TO DETERMINE IF ADDITIONAL EXCAVATION IS REQUIRED TO REMOVE WEAK OR OTHERWISE OBJECTIONABLE MATERIALS THAT WOULD ADVERSELY AFFECT THE FILL PLACEMENT. THE SUBGRADE SHOULD BE FIRM AND ABLE TO SUPPORT CONSTRUCTION EQUIPMENT WITHOUT DISPLACEMENT. SOFT OR YIELDING SUBGRADE SHOULD BE CORRECTED AND MADE STABLE BEFORE CONSTRUCTION PROCEEDS. PROOF ROLLING SHOULD BE PERFORMED USING A HEAVY PNEUMATIC TIRE ROLLER, LOADED DUMP TRUCK, OR SIMILAR PIECE OF EQUIPMENT WEIGHING 25 TONS. THE PROOF ROLLING OPERATIONS SHOULD BE OBSERVED BY THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE.

18. WHEN CLAY OR OTHER UNSTABLE MATERIAL IS PRESENT IN AREAS OF PROPOSED PAVED AREAS, THE GEOTECHNICAL ENGINEER SHALL OBSERVE THE STABILITY OF ANY EXISTING CLAY OR WEATHERED MATERIAL THAT IS PRESENT IN THE SUBBASE, AND SHALL DETERMINE WHETHER ADDITIONAL EXCAVATION OF THESE MATERIALS WILL BE REQUIRED. IF THIS MATERIAL IS DEEMED SUITABLE FOR SUBBASE MATERIAL, THE SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF SIX (6) INCHES, ITS MOISTURE CONTENT ADJUSTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER, AND THEN RE-COMPACTED TO BETWEEN NINETY-FIVE (95) PERCENT TO ONE HUNDRED (100) PERCENT OF THE OPTIMUM DENSITY DETERMINED BY THE STANDARD PROCTOR TEST, ASTM D - 698 PRIOR TO PLACEMENT OF FILL MATERIALS.

19. ALL SOILS USED FOR CONTROLLED FILL SHOULD BE FREE OF ROOTS, VEGETATION, AND OTHER DELETERIOUS OR UNDESIRABLE MATTER. ROCKS LESS THAN 3 INCHES IN LARGEST DIMENSION WILL BE ALLOWED AS ACCEPTABLE FILL MATERIAL. SOILS IMPORTED FROM OFF-SITE FOR USE AS FILL SHOULD BE APPROVED BY THE GEOTECHNICAL ENGINEER. THE FILL MATERIAL SHOULD BE PLACED IN LEVEL, UNIFORM LIFTS, WITH EACH LIFT COMPACTED TO THE MINIMUM DRY DENSITY WITHIN THE COMPACTION SOIL MOISTURE RANGES RECOMMENDED. THE LOOSE LIFT THICKNESS SHOULD NOT EXCEED 10 INCHES. EACH LAYER SHOULD BE PROPERLY PLACED, MIXED, SPREAD, AND COMPACTED TO BETWEEN NINETY-FIVE (95) AND ONE HUNDRED (100) PERCENT OF STANDARD PROCTOR DENSITY AT 0% TO 3% OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D 698.

20. 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.

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

- * 10" BELOW FINISHED GRADE FOR ALL STREET PAVEMENT AREAS
- * 5" BELOW FINISHED GRADE FOR ALL SIDEWALK PAVEMENT AREAS
- * 6" BELOW FINISHED GRADE FOR ALL LANDSCAPE AREAS

A TOLERANCE OF +/- 0.10 FEET OF THE FINISHED GRADE WILL BE ALLOWED FOR ALL AREAS UNDER PROPOSED PAVEMENT. ALL LANDSCAPE AREAS ARE TO BE GRADED WITHIN +/- 0.30 FEET OF THE FINISHED GRADE.

22. 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.

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

24. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS FOR THE SUPPORT AND PROTECTION OF ALL UTILITY POLES, FENCES, TREES, SHRUBS, UTILITY SERVICES, BUILDING FOUNDATIONS AND ALL OTHER UTILITIES AND STRUCTURES BOTH ABOVE AND BELOW THE GROUND, THE COST OF WHICH SHALL BE INCLUDED IN THE CONTRACT AMOUNT.

25. THE CONTRACTOR SHALL VERIFY THE ELEVATION, CONFIGURATION, AND ANGULATION OF EXISTING PAVEMENT PRIOR TO CONSTRUCTION OF TIE-IN MATERIALS. WHERE PROPOSED CONCRETE PAVEMENT TO EXISTING CONCRETE PAVEMENT IS TO BE CONSTRUCTED BY THE CONTRACTOR, THE CONTRACTOR SHALL PROVIDE HORIZONTAL DOWEL BARS PER THE DETAILS.

26. NO PERSON SHALL OPEN, TURN OFF, INTERFERE WITH, ATTACH ANY HOSE TO, OR TAP ANY WATER MAIN BELONGING TO THE TOWN OF ADDISON UNLESS DULY AUTHORIZED TO DO SO BY THE TOWN OF ADDISON INFRASTRUCTURE DEPARTMENT (972-450-2871).

27. ALL EXISTING AND PROPOSED IMPROVEMENTS (MANHOLE RIMS, CLEAN-OUTS, FIRE HYDRANTS, VALVE BOXES, WATER METERS AND VAULTS, ETC.) SHALL BE ADJUSTED TO FINAL FINISHED GRADE BY THE CONTRACTOR AT THE TIME OF PAVING.

28. PREPARATION OF SUBGRADE UNDER PAVED AREAS SHALL BE PERFORMED IN ACCORDANCE WITH THE TOWN OF ADDISON SPECIFICATIONS OR THE GEOTECHNICAL REPORT. THE MORE RESTRICTIVE REQUIREMENTS SHALL APPLY. PREPARATION OF THE SUBGRADE FOR PAVING WITHIN RIGHT-OF-WAY, STREET USE EASEMENTS AND/OR FIRE LANES SHALL NOT BE INITIATED UNTIL ALL TESTING OF UNDERGROUND UTILITIES HAS BEEN COMPLETED AND VERIFIED TO MEET THE SPECIFICATIONS AND AUTHORIZATION TOPROCEED HAS BEEN RECEIVED FROM THE INSPECTOR.

29. ALL FILL UNDER PAVEMENT AREAS SHALL BE COMPACTED TO A DENSITY OF AT LEAST NINETY-FIVE (95) PERCENT STANDARD PROCTOR AS PER ASTM D698 AT OR ABOVE OPTIMUM MOISTURE CONTENT (+-3%). LIFTS SHALL BE AS SPECIFIED IN THE GEOTECHNICAL REPORT AND AS APPROVED BY THE TOWN OF ADDISON. ALL FILL MATERIAL SHALL BE TESTED AS INSTALLED AND CERTIFIED BY AN APPROVED SOILS LABORATORY.

30. THE SUBGRADE SHALL BE PROOF-ROLLED WITH HEAVY PNEUMATIC EQUIPMENT. ANY SOFT OR PUMPING AREAS SHALL BE EXCAVATED TO FIRM SUBGRADE AND BACKFILLED AND RE-COMPACTED IN CONFORMANCE WITH THE GEOTECHNICAL REPORT. PAVEMENT SUBGRADE SHOULD NOT BE ALLOWED TO RETAIN WATER. WET MATERIAL SHALL BE REMOVED TO DRY, SOUND MATERIAL AND APPROPRIATE DENSITY ACHIEVED PRIOR TO PAVING OPERATIONS.

31. CONCRETE SHOULD BE PORTLAND CEMENT CONCRETE, CONFORMING TO THE REQUIREMENTS OF TxDOT ITEM 421, PORTLAND CEMENT CONCRETE CLASS "P".

32. HYDRATED LIME (IF REQUIRED) SHALL MEET THE REQUIREMENTS OF TxDOT ITEM 260, LIME TREATMENT USED AS SUBGRADE. LIME SHALL BE APPLIED AT THE RATE AND THICKNESS AS RECOMMENDED IN THE GEOTECHNICAL REPORT, THOROUGHLY MIXED AND BLENDED WITH THE SUBGRADE AND UNIFORMLY COMPACTED TO A MINIMUM OF 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.

33. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE HIS WORK WITH TRENCHING OPERATIONS FOR OTHER UTILITIES INCLUDING GAS, TELEPHONE, AND ELECTRIC SERVICES, LANDSCAPE IRRIGATION CONDUITS, LIGHTING CONDUITS, STREETSCAPE IMPROVEMENTS, ETC. AND SHALL PROVIDE BLOCKOUTS AND/OR FINAL ADJUSTMENT TO FINISH GRADE FOR ALL IMPROVEMENTS, EXISTING AND PROPOSED, WITHIN THE LIMITS OF THE PAVING WORK.

34. ALL CURB SHOWN IS TO BE SIX (6) INCHES HIGH.

35. EXPANSION JOINT MATERIAL SHALL EXTEND COMPLETELY THROUGH THE CURB.

36. ALL REINFORCING BARS SHALL BE GRADE 40 KSI DEFORMED REINFORCING STEEL. SIZE AND SPACING SHALL BE IN ACCORDANCE WITH THE DETAILS. WHERE BARS ARE SPLICED, A 30" DIAMETER LAP SHALL BE USED.

37. ALL REINFORCING STEEL AND DOWEL BARS IN PAVEMENT SHALL BE SUPPORTED AND MAINTAINED AT THE CORRECT CLEARANCES BY THE USE OF BAR CHAIRS OR OTHER APPROVED SUPPORTS.

38. THE CONTRACTOR SHALL PROCEED WITH PAVING NO MORE THAN SEVENTY-TWO (72) HOURS AFTER DENSITY/MOISTURE TESTS HAVE BEEN TAKEN AND PASSED BY THE TESTING FIRM. COPIES OF THE TEST RESULTS SHALL BE FURNISHED TO THE CITY. IN THE EVENT PAVING OPERATIONS HAVE NOT COMMENCED WITHIN THE SEVENTY-TWO (72) HOUR LIMIT, A RETEST SHALL BE REQUIRED AT THE CONTRACTOR'S EXPENSE.

39. CONCRETE SHALL NOT BE PLACED WHEN THE TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT AND FALLING, BUT MAY BE PLACED WHEN THE TEMPERATURE IS ABOVE 35 DEGREES AND RISING. THE TEMPERATURE READING SHALL BE TAKEN IN THE SHADE AND AWAY FROM ARTIFICIAL HEAT.

40. CONSTRUCTION OF SIDEWALKS, WHEELCHAIR RAMPS AND ACCESSIBLE ROUTES SHALL BE IN ACCORDANCE WITH THE TEXAS ACCESSIBILITY STANDARDS (TAS), THE AMERICANS DISIBILITY ACT (ADA) AND THE PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG). ALL CONCRETE FOR HANDICAP RAMPS SHALL HAVE TRUNCATED DOMES.

41. PAVEMENT MARKINGS SHALL BE PROVIDED IN ACCORDANCE WITH THE TEXAS "UNIFORM TRAFFIC MANUAL FOR PAVEMENT MARKINGS". FIRE LANES SHALL BE STRIPED IN ACCORDANCE WITH THE TOWN OF ADDISON'S REQUIREMENTS. ALL HANDICAP SYMBOLS, SIGNAGE AND PAVEMENT MARKINGS SHALL COMPLY WITH TAS AND/OR ADA AND/OR PROWAG STANDARDS.

42. MEMBRANE CURING TYPE 2, WHITE PIGMENTED, SHALL BE USED FOR CURING ALL CONCRETE SURFACES IMMEDIATELY AFTER FINISHING OF SURFACES AND SHALL BE IN ACCORDANCE WITH THE TxDOT ITEM #526.

43. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR REPAIRS TO ALL EXISTING FACILITIES DAMAGED BY HIS ACTIVITIES.

44. THE CONTRACTOR SHALL PROVIDE PAVEMENT JOINTING IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

- A. SAW CUTTING SHALL BE DONE WITHIN EIGHT (8) HOURS OF POUR OR AS SOON AS CONCRETE CAN SUPPORT WEIGHT. PROVIDE A NEAT CUT WHICH IS TRUE IN ALIGNMENT.

- B. CONTRACTOR SHALL MARK JOINT LOCATIONS AT THE CENTERLINE OF DOWEL LENGTH DURING HIS PAVING OPERATIONS.

- C. ALL JOINTS ARE TO CONTINUE THROUGH THE CURB AT A 90° ANGLE.

- D. RADIAL JOINTS SHALL BE NO SHORTER THAN EIGHTEEN (18) INCHES.

- E. ALL CONSTRUCTION JOINTS SHALL BE SAWN, CLEANED OF DEBRIS, BLOWN DRY AND IMMEDIATELY SEALED.

- F. ODD SHAPED PANELS SHALL BE REINFORCED WITH #3 BARS AT 18" EACH WAY. AN ODD SHAPED PANEL IS CONSIDERED TO BE ONE IN WHICH THE SLAB TAPERS TO A SHARP ANGLE WHEN THE LENGTH TO WIDTH RATIO EXCEEDS 3 TO 1 OR WHEN A SLAB IS NEITHER SQUARE NOR RECTANGULAR.

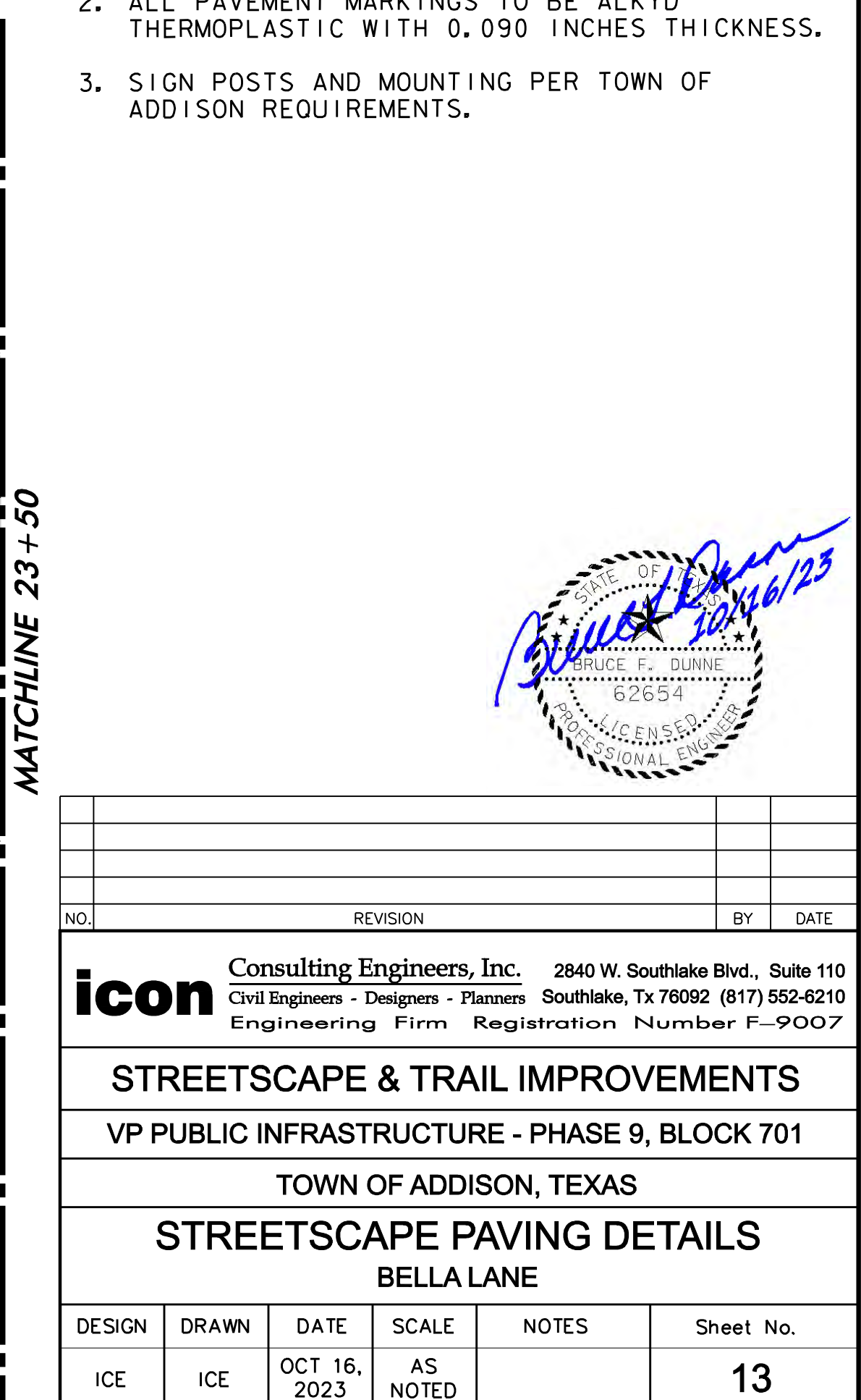
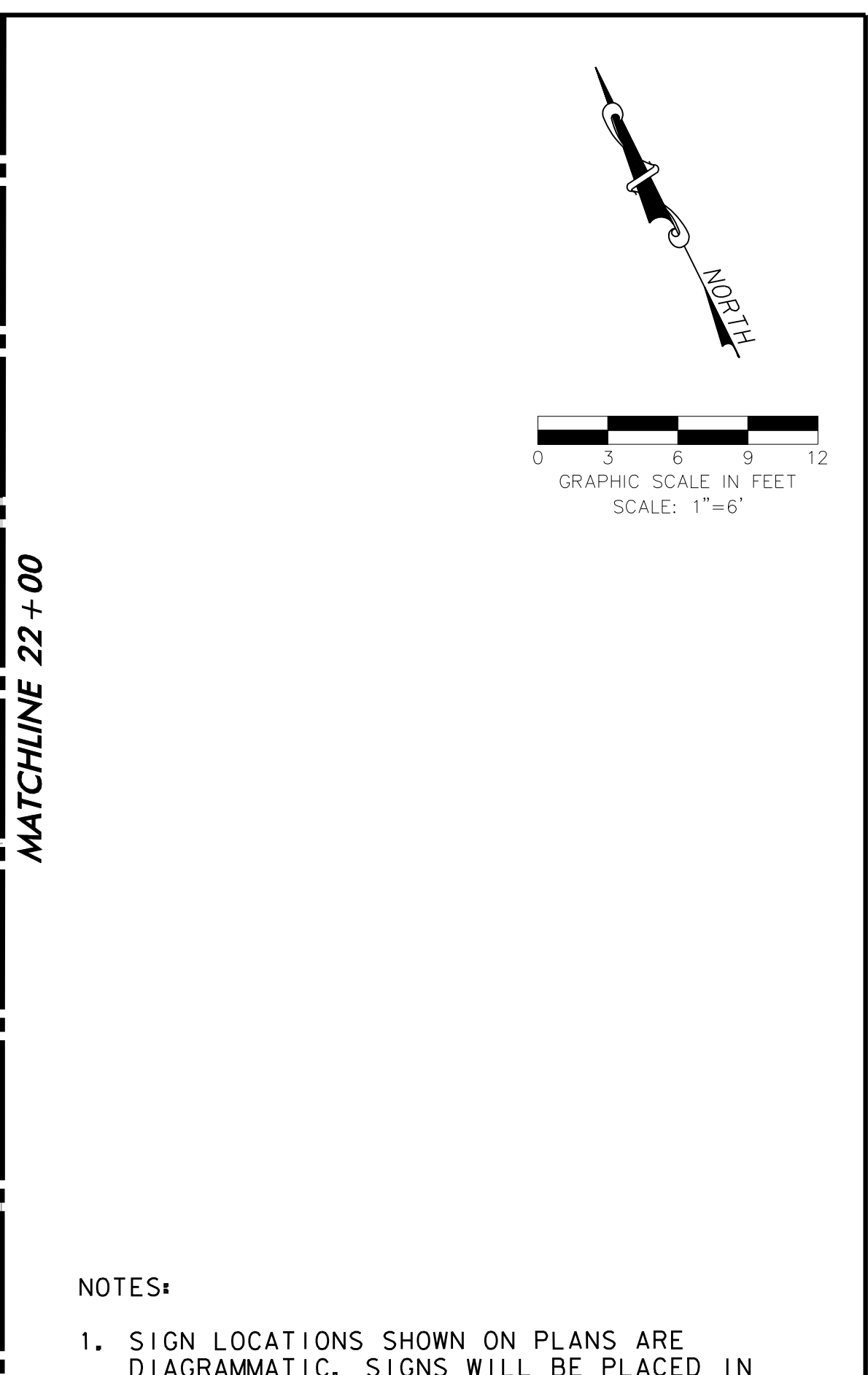
- G. THE CONTRACTOR SHALL SUBMIT HIS DESIRED JOINT LAYOUT PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO BEGINNING WORK.

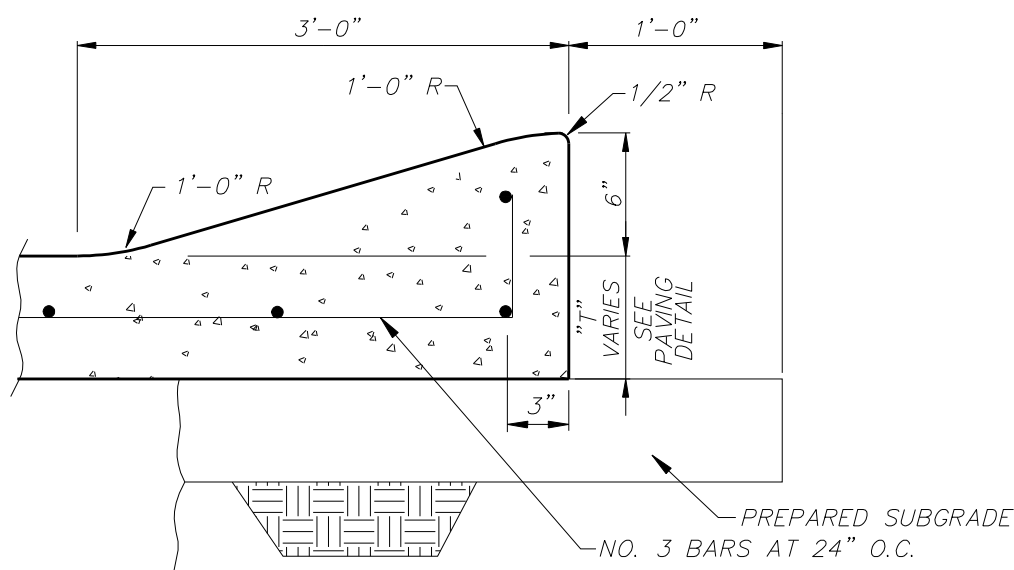
45. THE CONTRACTOR SHALL PROVIDE VERIFICATION OF COMPLETION AND COMPLIANCE OF ANY AND ALL REQUIRED TESTS TO THE TOWN OF ADDISON.

46. THE CONTRACTOR SHALL CALL (972) 450-2847 TO REQUEST A FINAL WALK-THROUGH INSPECTION OF THE PUBLIC INFRASTRUCTURE WORK.

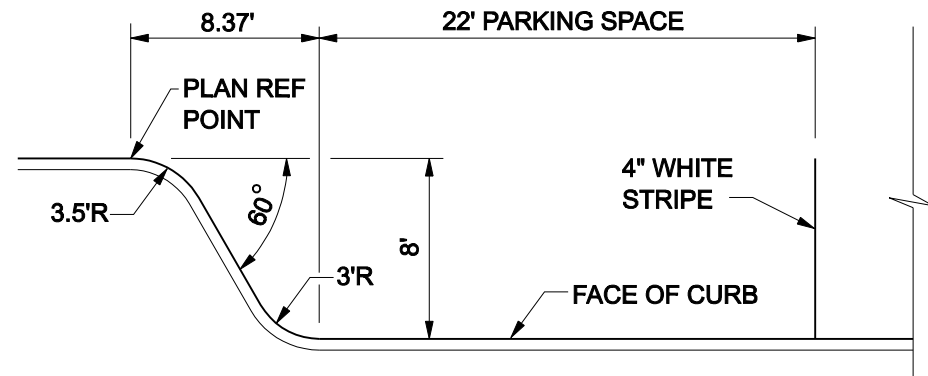


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STREETSCAPE & TRAIL IMPROVEMENTS					
VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701					
TOWN OF ADDISON, TEXAS					
PAVING & GRADING NOTES & DETAILS					
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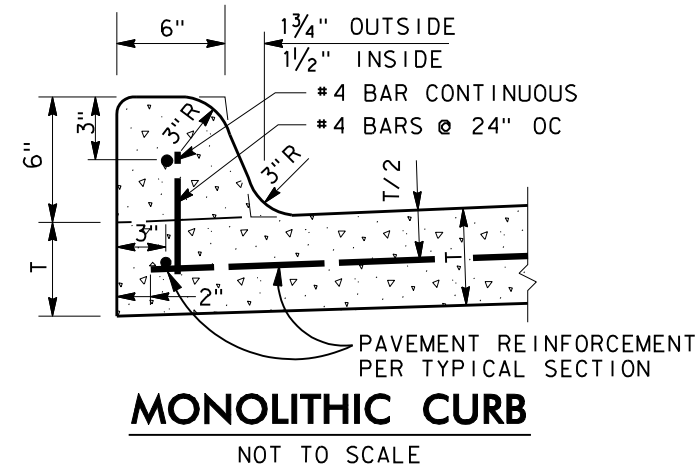




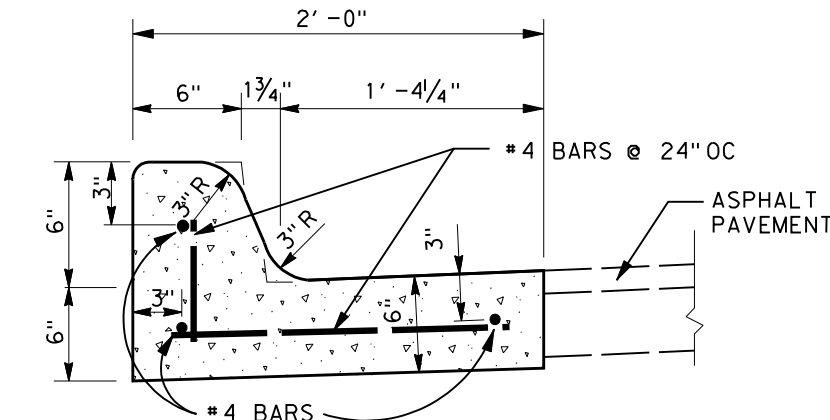
6" MONOLITHIC ROLLOVER CURB
NOT TO SCALE



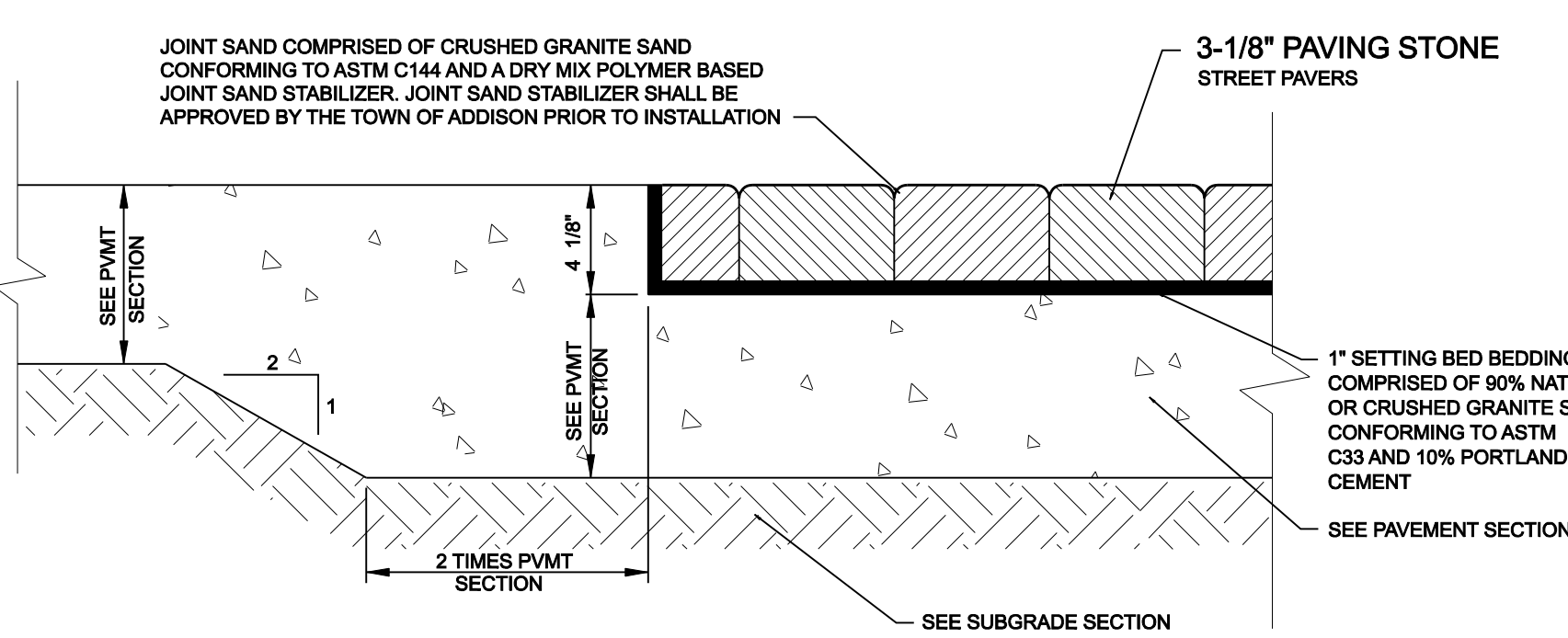
TYPICAL PARALLEL PARKING TRANSITION
NOT TO SCALE



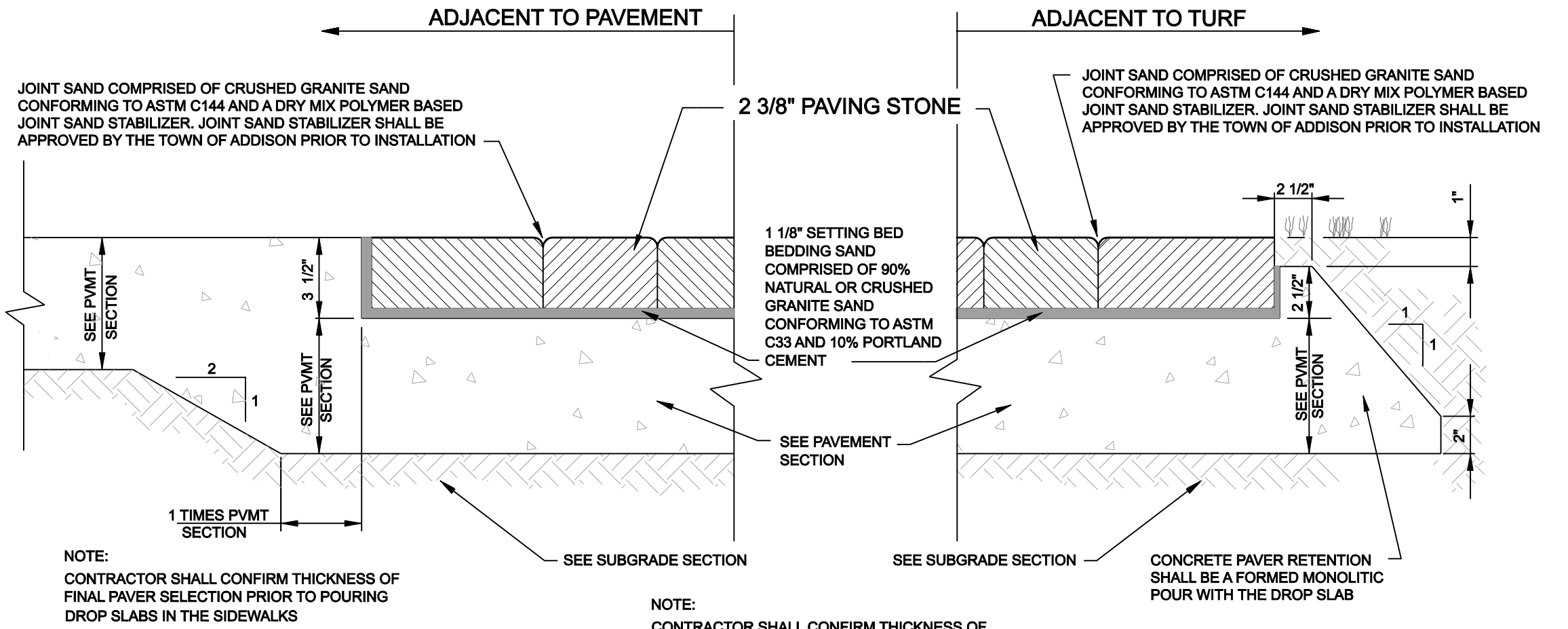
MONOLITHIC CURB
NOT TO SCALE



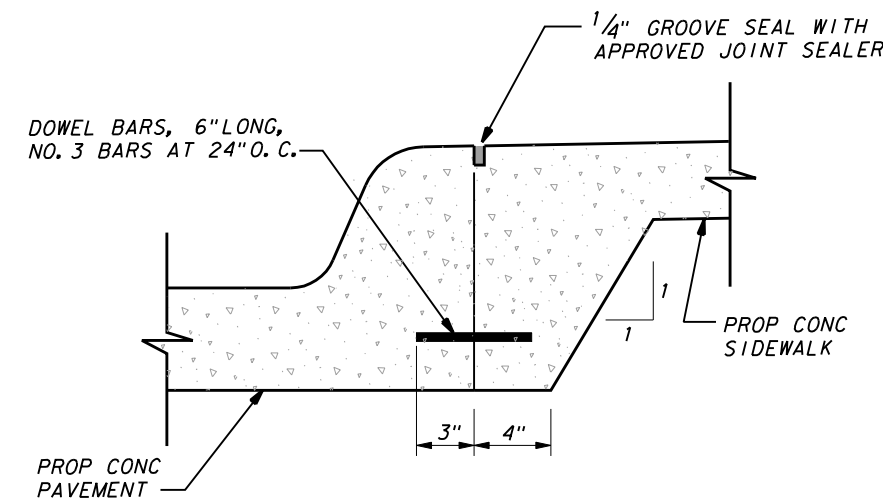
6" CURB AND GUTTER
NOT TO SCALE



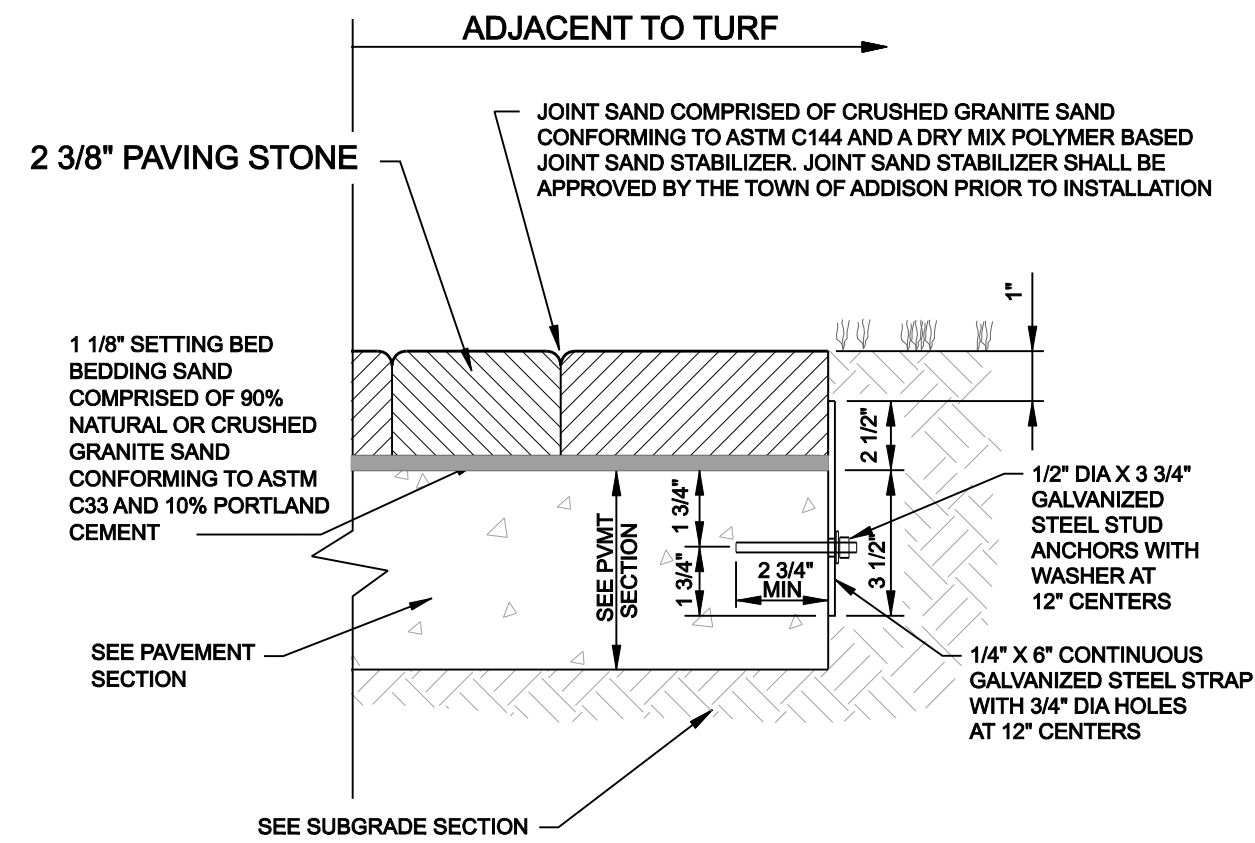
STREET PAVERS ON CONCRETE DROP SLAB
NOT TO SCALE



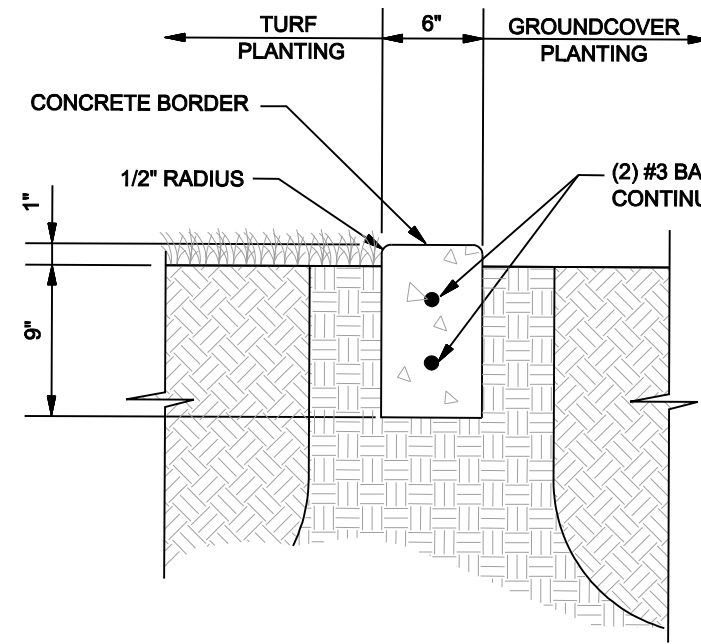
PAVERS ON CONCRETE DROP SLAB
NOT TO SCALE



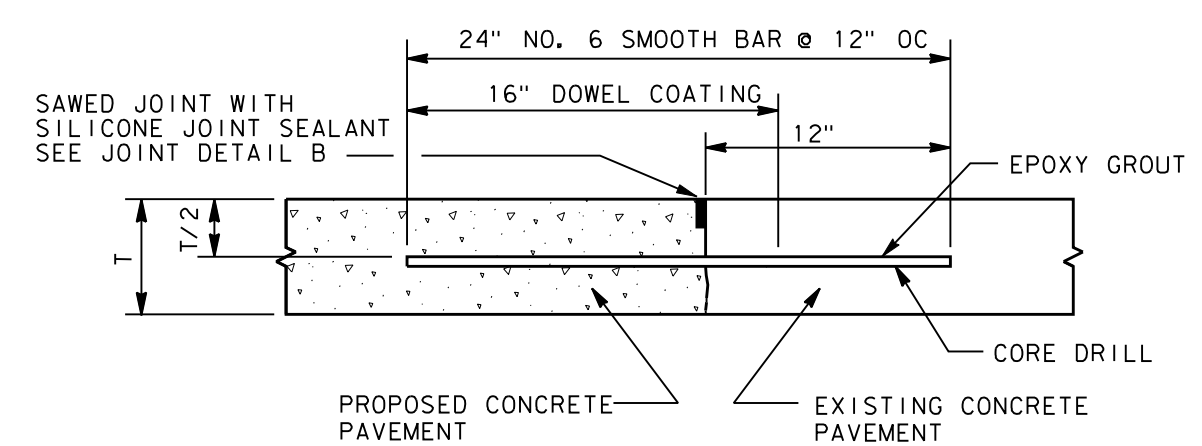
JOINT DETAIL FOR SIDEWALK ADJACENT TO CURB
NOT TO SCALE



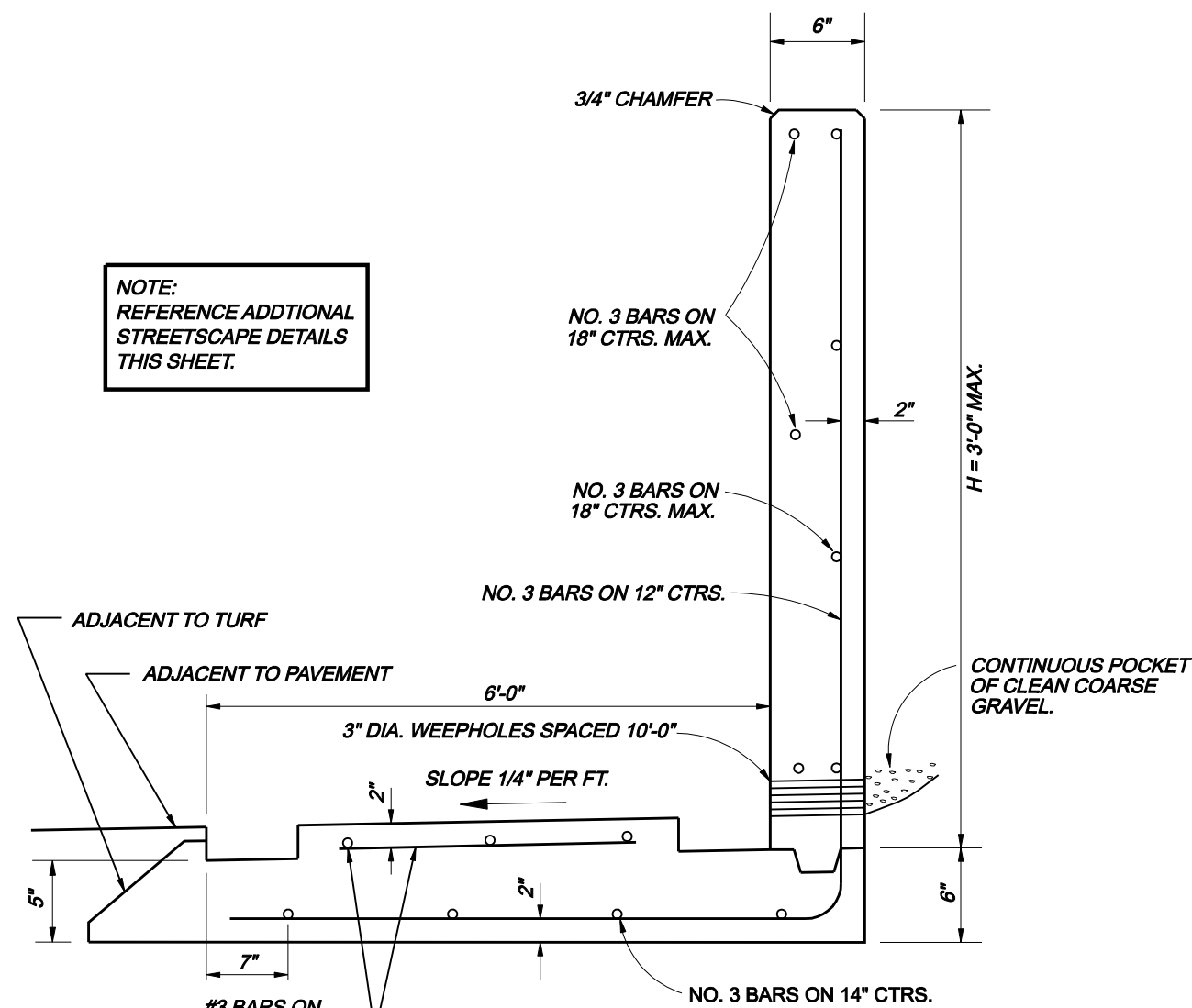
ALTERNATE PAVER RETENTION ON CONCRETE DROP SLAB
NOT TO SCALE



CONCRETE BORDER
NOT TO SCALE



PROPOSED TO EXISTING CONCRETE PAVEMENT
NOT TO SCALE

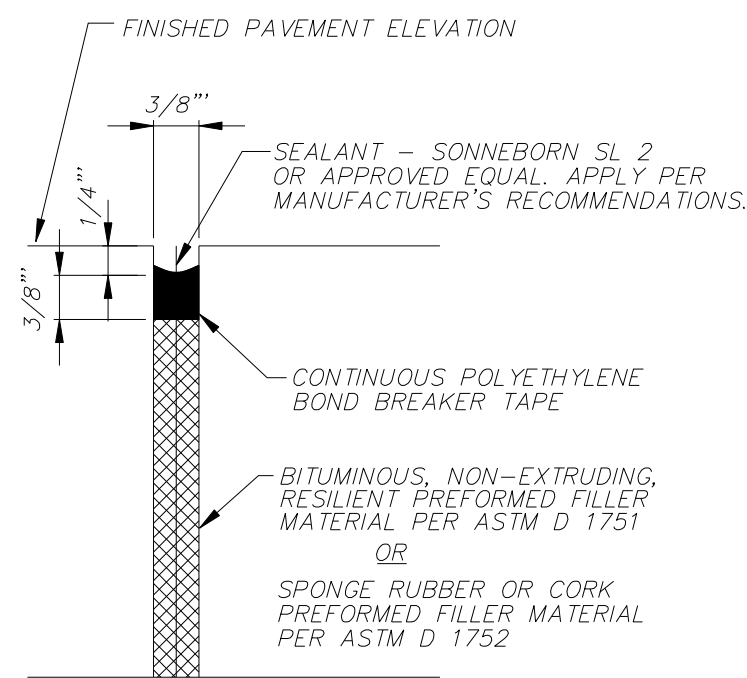


TYPE 6 RETAINING WALL COMBINATION CANTILEVER & WALK
NOT TO SCALE

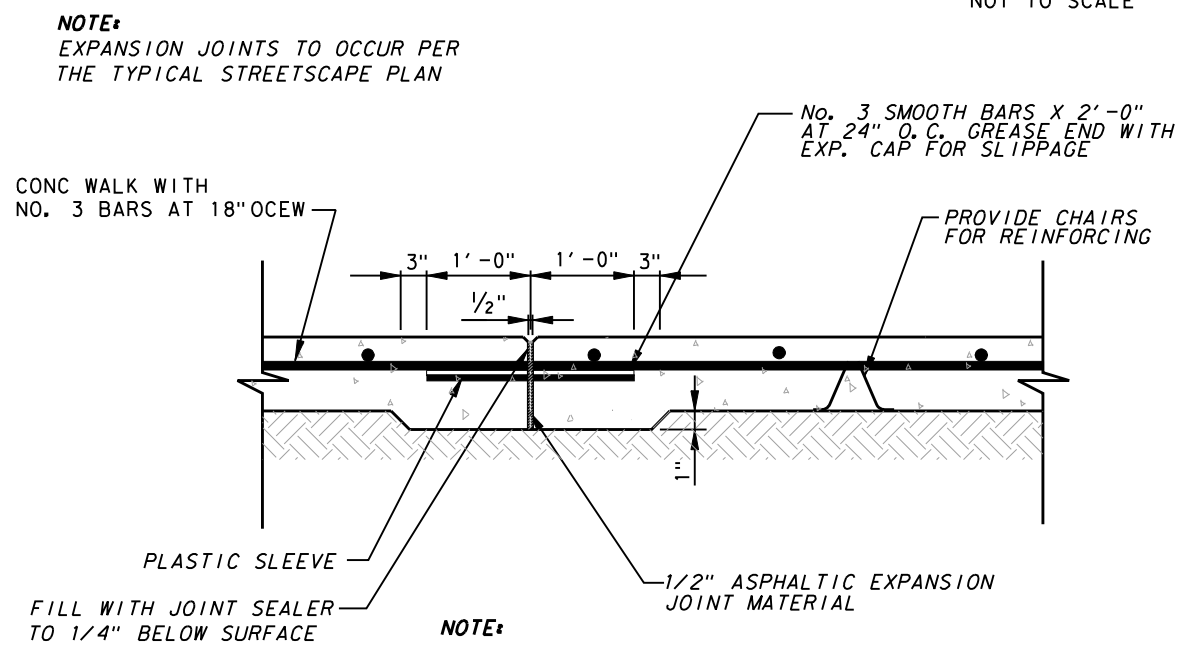
(WALL GREATER THAN H=3'-0" REQUIRES SPECIAL ENGINEERING ANALYSIS)

GENERAL NOTES FOR RETAINING WALLS, ALL TYPES (U.N.O.)

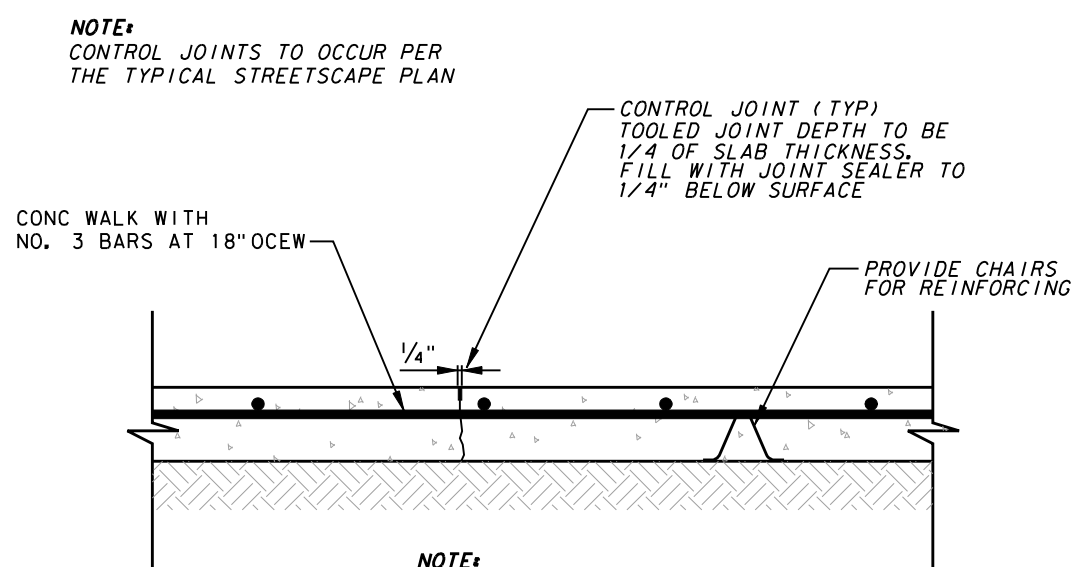
1. RETAINING WALLS SHALL BE BUILT WITH PERFORATED DRAIN SYSTEM INSTEAD OF WEEP HOLES WHENEVER FEASIBLE.
2. BARS SHALL CONFORM TO ITEM 2.2.6 OF NCTCOG SPECIFICATIONS.
3. BAR LAPS SHALL BE 30 DIAMETERS.
4. ALL EXPOSED SURFACES EXCEPT WALK, SHALL RECEIVE A HEAVY SANDBLAST FINISH.
5. DRIVEWAY AND WALK SHALL RECEIVE A NON-SKID WOOD FLOAT FINISH.
6. EXPOSED EDGES AND CORNERS TO BE ROUNDED OR CHAMFERED AS INDICATED HEREIN.
7. WEEP HOLES SHALL BE FORMED BY 3" PVC.
8. FOR WALL TYPES 6 & 7, THE WALKWAY WIDTH MAY BE INCREASED WHEN SPECIFIED ON THE PLANS, BUT SHALL NOT BE DECREASED UNLESS A SPECIAL DETAILED DESIGN IS PROVIDED IN THE PLANS AND SPECIFICATIONS.



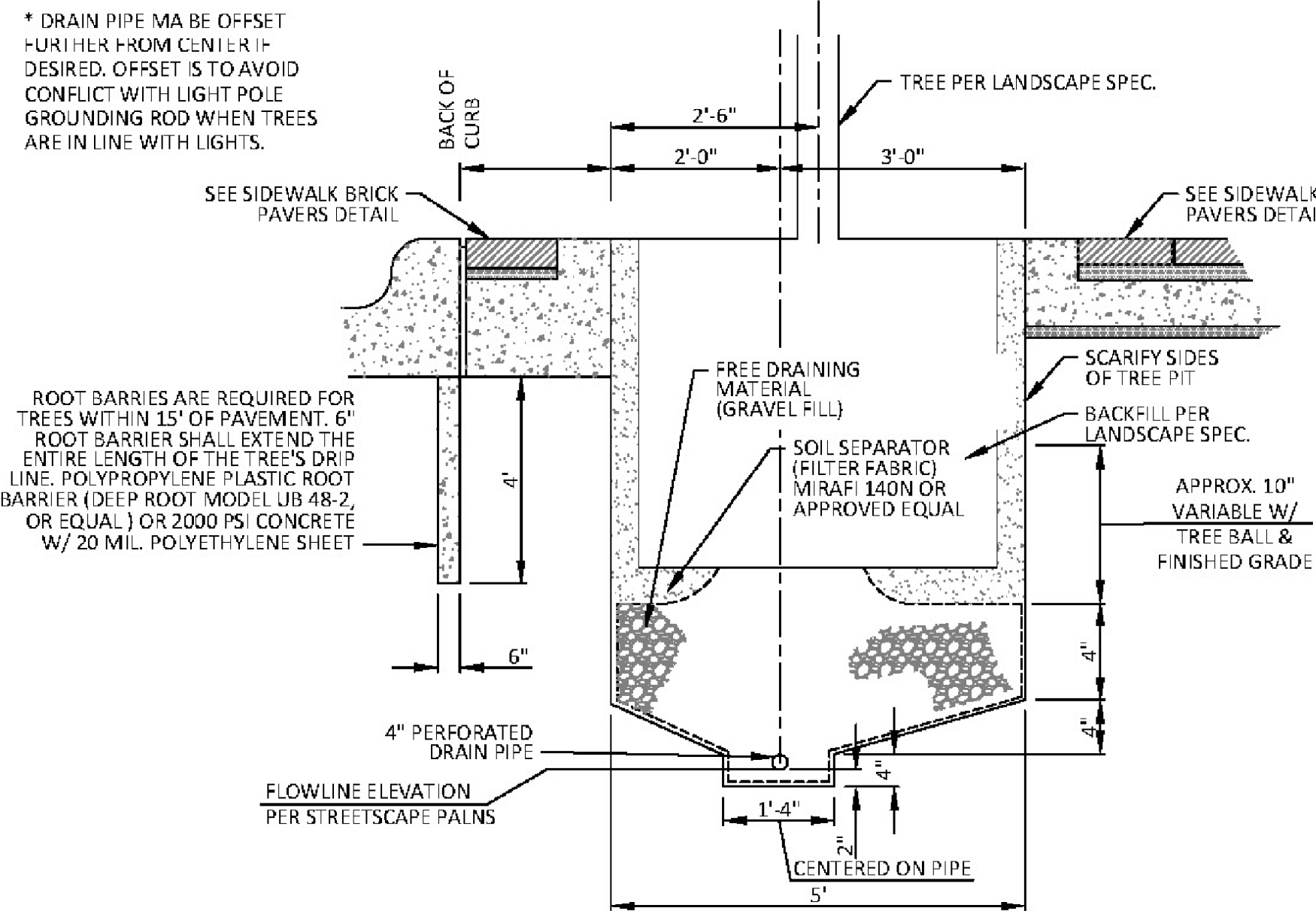
EXPANSION / ISOLATION JOINT SEALANT
NOT TO SCALE



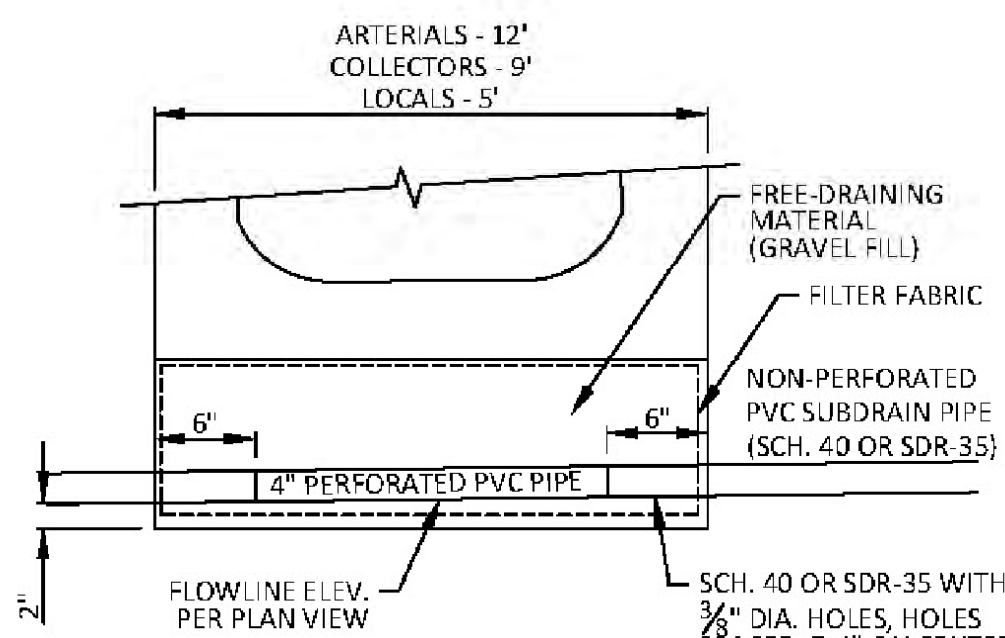
STREETSCAPE SIDEWALK EXPANSION JOINT
NOT TO SCALE



STREETSCAPE SIDEWALK CONTROL JOINT
NOT TO SCALE



SECTION PERPENDICULAR TO CURB
N.T.S



SECTION PARALLEL TO CURB
N.T.S



TREE DRAIN LINE

STANDARD CONSTRUCTION DETAILS STORM DRAINAGE

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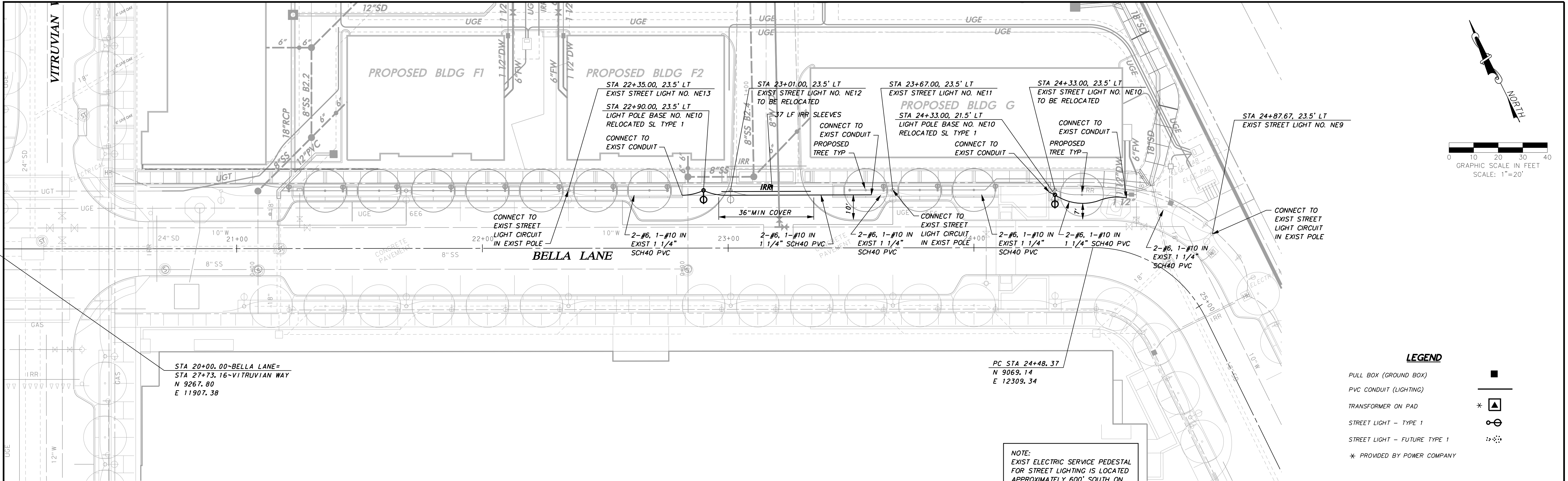
STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

TOWN OF ADDISON, TEXAS

STREETSCAPE PAVING DETAILS

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STREET LIGHTING & CONDUIT NOTES

1. REFER TO SHEET 3 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THE PROJECT.
2. REFER TO SHEET ED(1)-03 FOR ELECTRIC DETAILS - CONDUIT. RIGID METAL CONDUIT ELBOWS ARE NOT REQUIRED.
3. REFER TO SHEET ED(2)-03 FOR ELECTRIC DETAILS - CONDUCTORS.
4. REFER TO SHEET ED(3)-03 FOR ELECTRIC DETAILS - GROUND BOXES. RIGID METAL CONDUIT ELBOWS ARE NOT REQUIRED. CONCRETE APRON IS NOT REQUIRED.
5. REFER TO SHEET ED(8)-03 FOR ELECTRIC DETAILS - ELECTRICAL SERVICE SUPPORT PEDESTAL SERVICE TYPE PS. PEDESTAL SERVICE SHALL BE ALUMINUM, COLOR LIGHT GRAY. RIGID METAL ELBOWS ARE NOT REQUIRED.
6. WATER, SANITARY SEWER, AND STORM DRAIN LINES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL LOCATE ALL UTILITY LINES IN THE AREA PRIOR TO DIGGING.
7. INSTALL SCHEDULE 40 PVC UNDERGROUND (24" MIN COVER). ALL STREET AND DRIVEWAY CROSSINGS (36" MIN COVER). ALL BENDS TO BE LONG RADIUS.
8. ALL CONDUIT AT POLE BASES TO BE WITHIN THE DRILLED SHAFT FOUNDATION. NO EXPOSED CONDUIT AT POLE BASES WILL BE ALLOWED.
9. SL TYPE 1-SINGLE 100W 240V MH LUMINAIRE ON 11'-8" POLE, COLOR BEGA OLD SILVER BEGA FIXTURE 9701 MH-V240-BEGA OLD SILVER OR APPROVED EQUAL BEGA POLE 1108HR-BEGA OLD SILVER OR APPROVED EQUAL, LAMP MP 100/U/MED
10. CONNECTION TO POWER COMPANY CIRCUITS TO BE MADE ONLY BY POWER COMPANY.
11. UNLESS OTHERWISE INDICATED ALL WORK SHALL CONFORM TO THE 2008 NATIONAL ELECTRICAL CODE (NFPA 70) AND THE 2007 NATIONAL ELECTRICAL SAFETY CODE (ANSI C2).
12. ALL EMPTY CONDUIT INSTALLED FOR FUTURE EXTENSION SHALL BE TURNED UP AND EXTENDED UP TO FINISHED GRADE. CAP ENDS OF ALL CONDUITS. ALL EMPTY CONDUIT SHALL CONTAIN A PULL LINE - 200 LB TEST NYLON.
13. REFER TO REFERENCED SHEETS FOR STREET LIGHTING DETAILS.
14. IRRIGATION SLEEVES "IRR" SHALL CONSIST OF 1-6" SCH 40 PVC AND 1-2" SCH 40 PVC INSTALLED WITH MINIMUM 24" COVER AND EXTENDING 2' BEYOND THE BACKS OF CURB OR EDGE OF PAVEMENT AND UP TO FINISHED GRADE. CAP ENDS OF ALL CONDUITS.
15. STREET LIGHTING BASE AND CONDUIT LOCATIONS ARE CRITICAL FOR COORDINATION WITH FUTURE STREETScape AND ADJACENT PRIVATE IMPROVEMENTS. INSTALL ONLY AT SPECIFIC LOCATIONS PROVIDED.

BM #1 REF. ELEVATION = 584.37
"X-CUT" SET ON THE BACK OF CURB OF THE SOUTH CURB INLET LOCATED AT THE SOUTHEAST INTERSECTION OF SPRING VALLEY ROAD AND VITRUVIAN WAY.

BM #2 REF. ELEVATION = 567.31
"X-CUT" SET ON THE NOSE OF A MEDIAN LOCATED ON THE SOUTHWEST CENTER MEDIAN LOCATED AT THE INTERSECTION OF VITRUVIAN WAY AND BELLA LANE.

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.

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STREETSCAPE & TRAIL IMPROVEMENTS

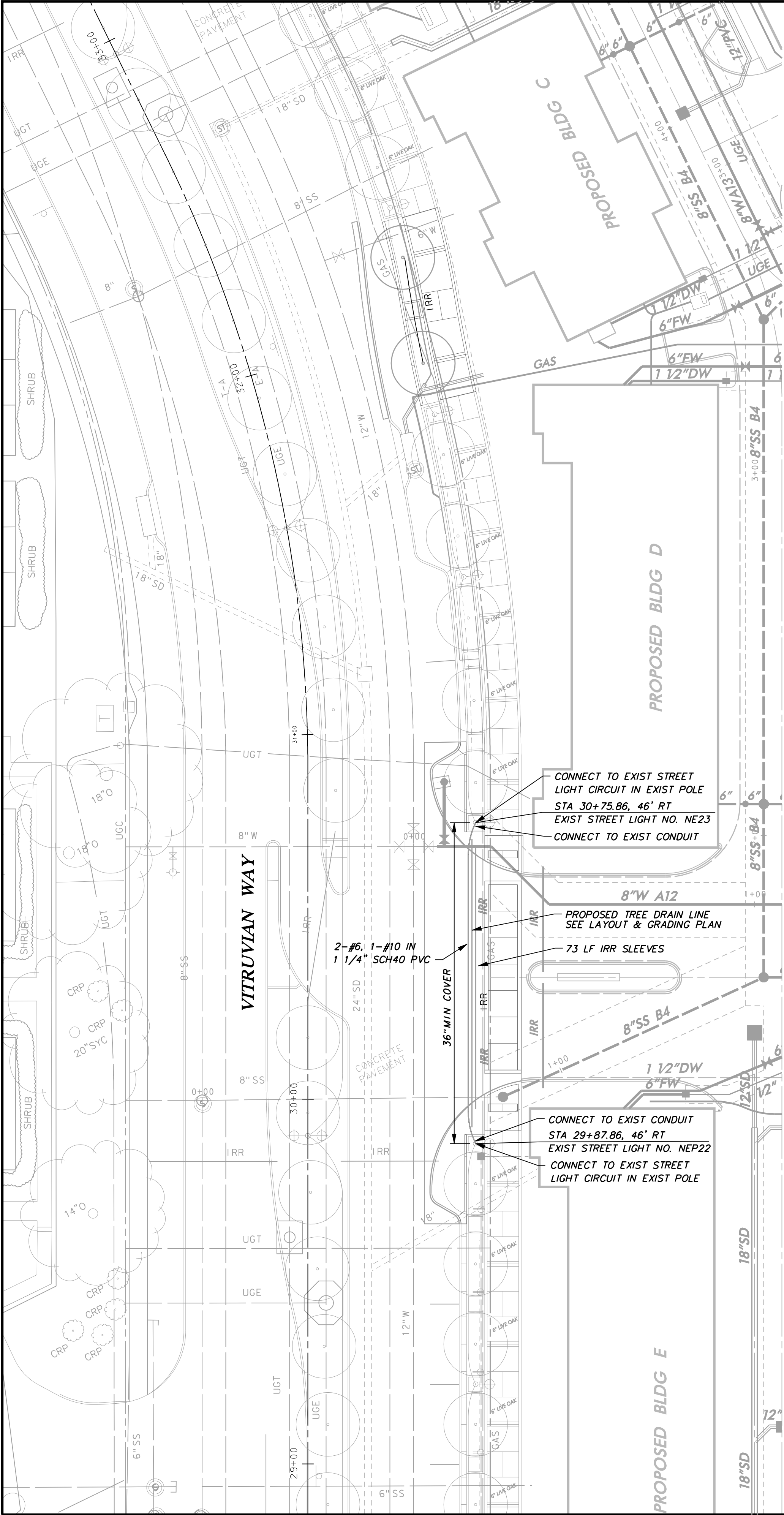
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TOWN OF ADDISON, TEXAS

STREET LIGHT & CONDUIT PLAN

BELLA LANE

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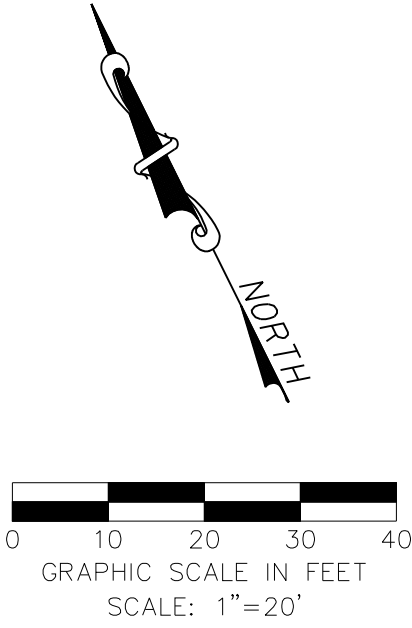
NOTE:
EXIST ELECTRIC SERVICE PEDESTAL
FOR STREET LIGHTING IS LOCATED
APPROXIMATELY 600' SOUTH ON
THE EAST SIDE OF VITRUVIAN WAY


BM #1 REF. ELEVATION = 584.37
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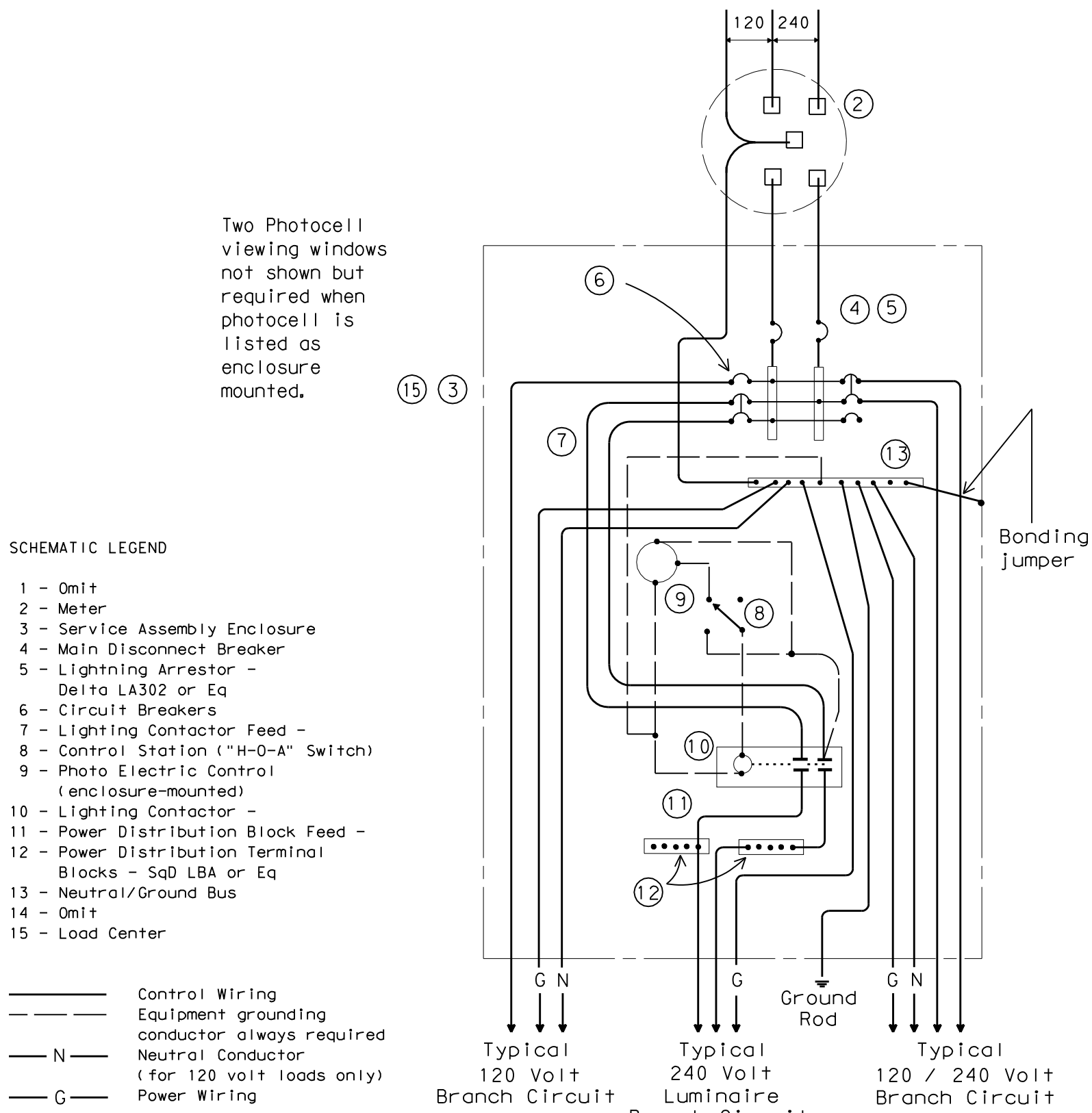
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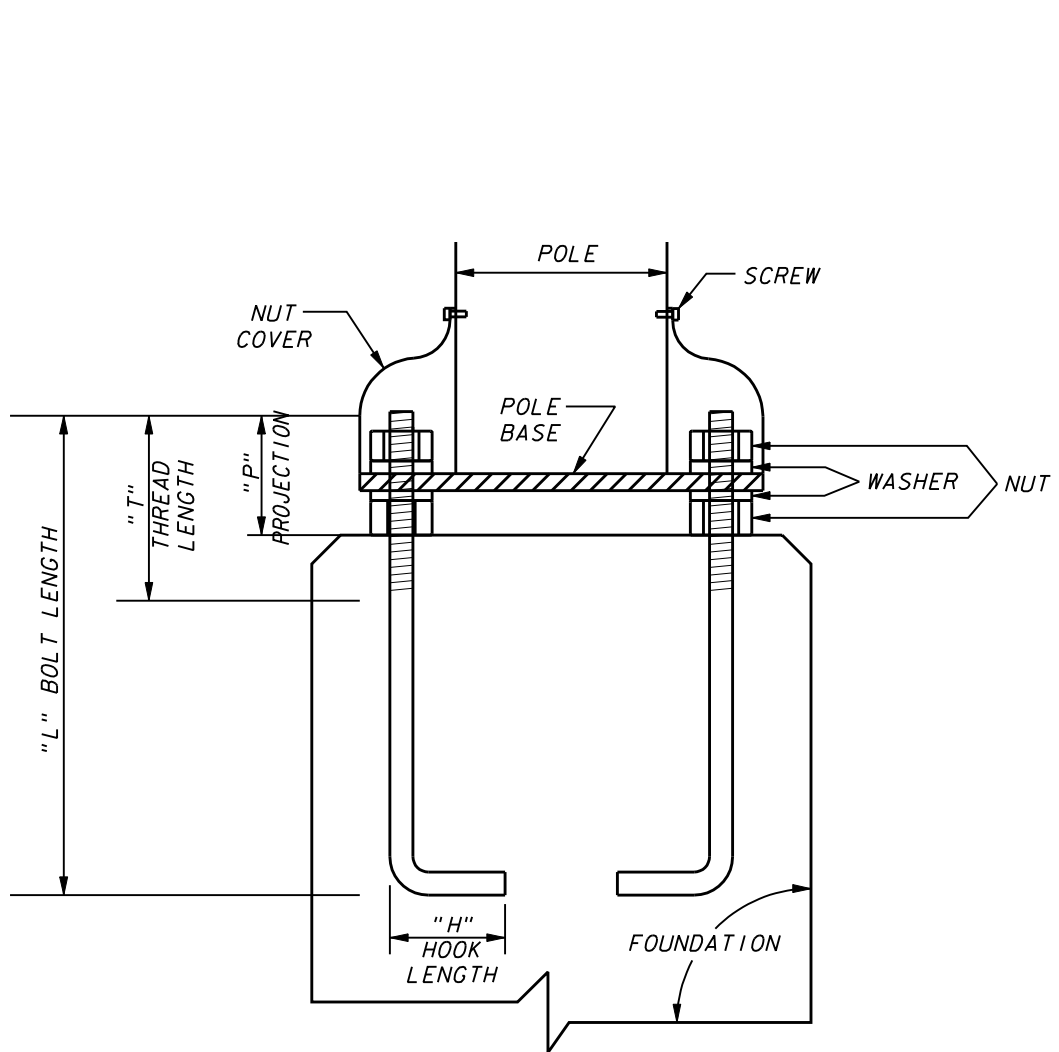


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VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701					
TOWN OF ADDISON, TEXAS					
STREET LIGHT & CONDUIT PLAN					
VITRUVIAN WAY					
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Photocell and lighting contactor shall be located in the same UL type 3R enclosure with load center. There shall be a window on each side of enclosure to allow operation of photocell. Both photocell, contactor and breaker area shall have dead front trim. Type D load center with lighting controls shall have power distribution blocks for a minimum of 10, #4 conductors.

EXISTING ELECTRIC SERVICE PEDESTAL SCHEMATIC

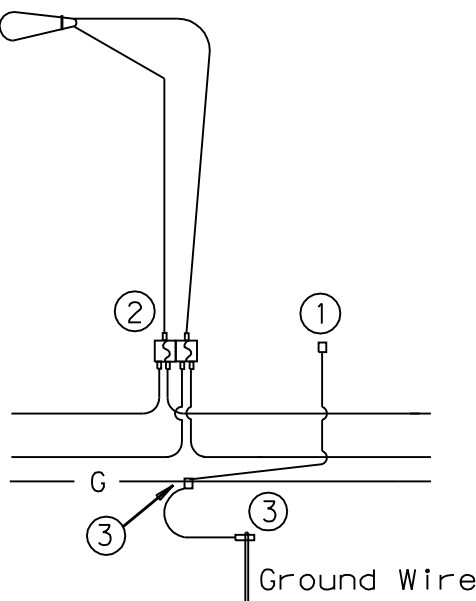


- NOTES:
- USE ANCHOR BOLT TEMPLATE FURNISHED BY POLE MANUFACTURER FOR ANCHOR BOLT ALIGNMENT.
 - ALL EXPOSED HARDWARE TO BE STAINLESS STEEL.

TYPE NO.	BOLT DIA. (IN.)	LENGTH "L" (IN.)	HOOK "H" (IN.)	THREAD "T" (IN.)	PROJECTION "P" (IN.)
45	3/4"	17	3 1/2	5 1/2	3 1/2
47	1"	36	4	6	4

SUPPLY 2 NUTS & 2 WASHERS WITH EACH BOLT

ANCHOR BOLT DETAIL



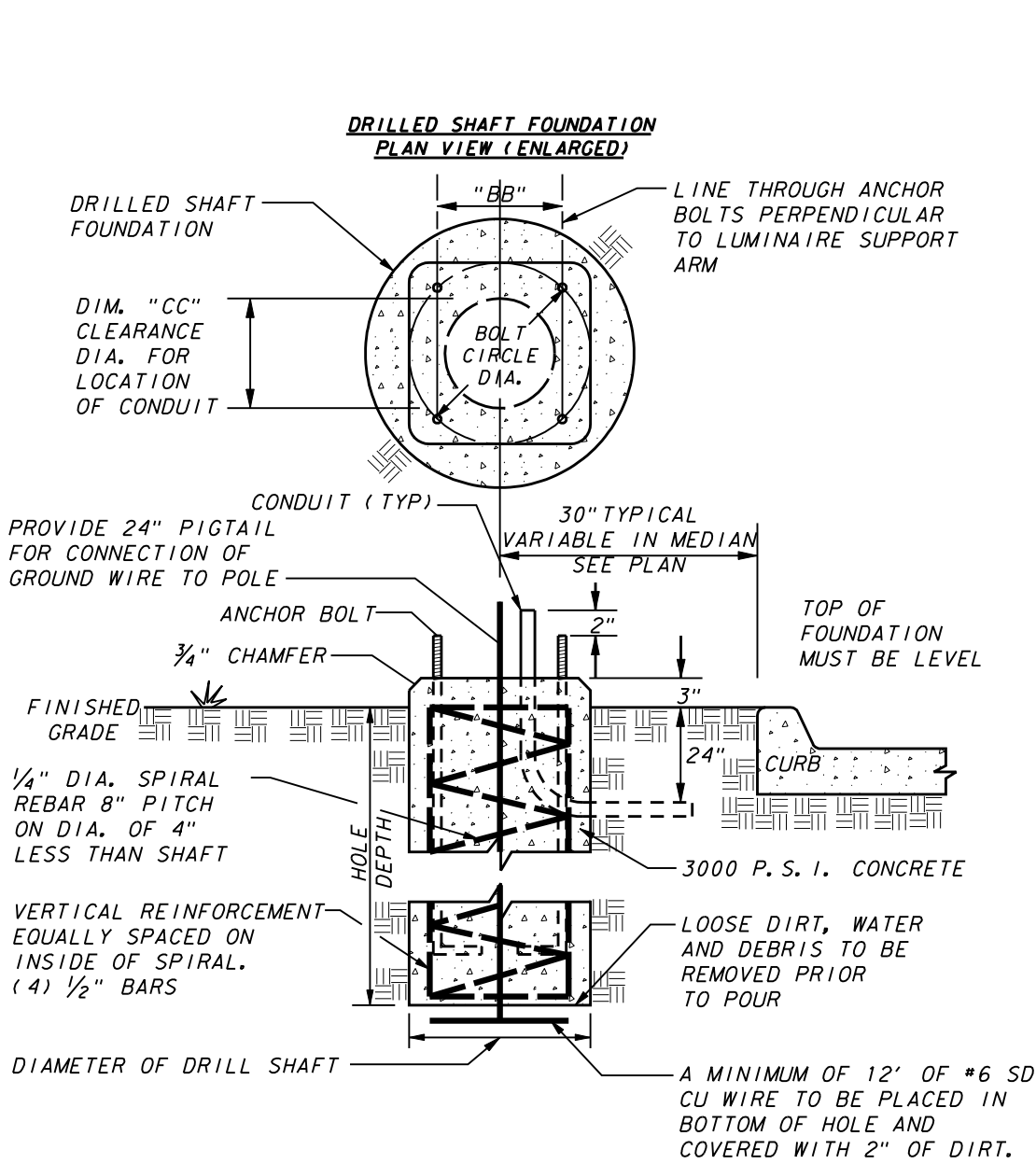
FOR THREE-WIRE CIRCUIT-CENTER GROUNDED LUMAIRES SERVED AT 240V FOR 120/240 VOLT SERVICE

SINGLE FIXTURE

NOTES:

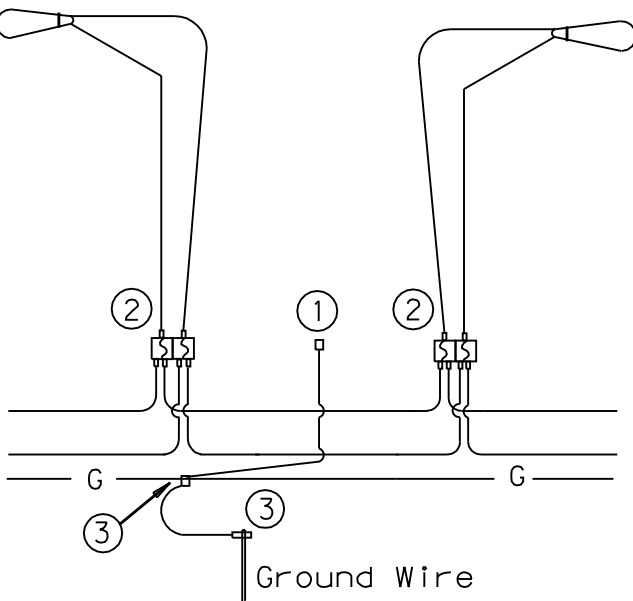
- Use threaded, copper or tin-plated copper, pole bonding connector, sized appropriately for conductors.
- Double-Pole inline fuse and connector, sized appropriately for conductors. Bussmann TRON HEY with 2A0660 & 2A0661 Insulating Boots and LIMITRON KTK-R fast acting fuses or equal - 100W fixture use 1 amp fuses, 400 W fixture use 4 amp fuses.
- Split Bolt or other connector.

ELECTRICAL CONNECTION DETAIL



TYPE NO.	SHAFT DEPTH	SHAFT DIA.	BOLT CIRCLE DIA.	ANCHOR TYPE NO.	CONDUIT CLEARANCE DIM. "CC"	DISTANCE ACROSS BOLTS DIM "BB"
1	60"	18"	9 1/2"	45	4 1/2"	6 3/4"
2	60"	18"	9 1/2"	45	4 1/2"	6 3/4"
3	72"	24"	11 1/2"	47	7 1/2"	8 3/8"
4	72"	24"	11 1/2"	47	7 1/2"	8 3/8"

DRILLED SHAFT FOUNDATION

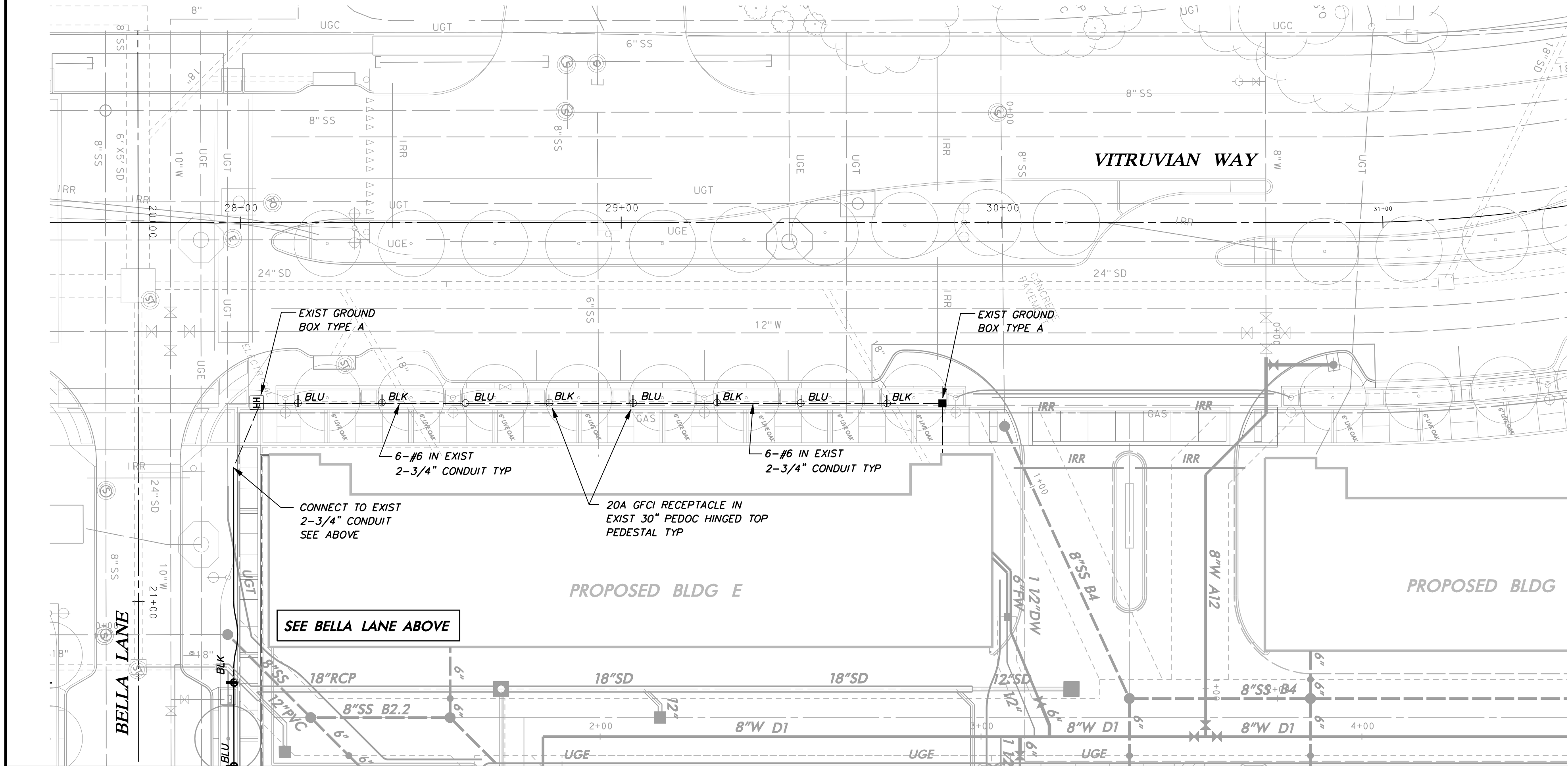
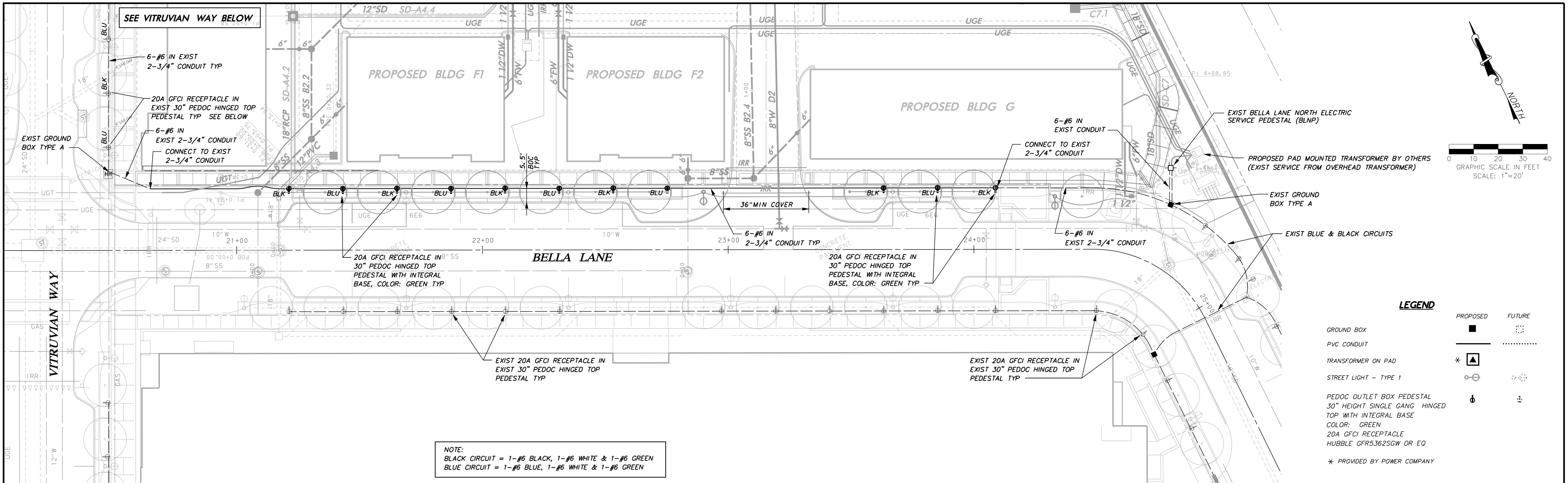


FOR THREE-WIRE CIRCUIT-CENTER GROUNDED LUMAIRES SERVED AT 240V FOR 120/240 VOLT SERVICE

DOUBLE FIXTURE



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STREETSCAPE & TRAIL IMPROVEMENTS					
VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701					
TOWN OF ADDISON, TEXAS					
STREET LIGHT DETAILS					
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HOLIDAY LIGHTING & CONDUIT NOTES

1. REFER TO SHEET 3 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THE PROJECT.
2. WATER, SANITARY SEWER, AND STORM DRAIN LINES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL LOCATE ALL UTILITY LINES IN THE AREA PRIOR TO DIGGING.
3. INSTALL SCHEDULE 40 PVC UNDERGROUND (24" MIN COVER) . ALL STREET AND DRIVEWAY CROSSINGS (36" MIN COVER). ALL BENDS TO BE LONG RADIUS.
4. CONNECTION TO POWER COMPANY CIRCUITS TO BE MADE ONLY BY POWER COMPANY.
5. UNLESS OTHERWISE INDICATED ALL WORK SHALL CONFORM TO THE 2008 NATIONAL ELECTRICAL CODE (NFPA 70) AND THE 2007 NATIONAL ELECTRICAL SAFETY CODE (ANSI C2).
6. ALL EMPTY CONDUIT INSTALLED FOR FUTURE EXTENSION SHALL BE TURNED UP AND EXTENDED UP TO FINISHED GRADE. CAP ENDS OF ALL CONDUITS. ALL EMPTY CONDUIT SHALL CONTAIN A PULL LINE - 200 LB TEST NYLON.
7. REFER TO REFERENCED SHEETS FOR ELECTRICAL DETAILS.
8. IRRIGATION SLEEVES "IRR" SHALL CONSIST OF 1-6" SCH 40 PVC AND 1-2" SCH 40 PVC INSTALLED WITH MINIMUM 24" COVER AND EXTENDING 2' BEYOND THE BACKS OF CURB OR EDGE OF PAVEMENT AND UP TO FINISHED GRADE. CAP ENDS OF ALL CONDUITS.

BM #1 REF. ELEVATION = 584.37
"X-CUT" SET ON THE BACK OF CURB OF THE SOUTH CURB INLET LOCATED AT THE SOUTHEAST INTERSECTION OF SPRING VALLEY ROAD AND VITRUVIAN WAY.

BM #2 REF. ELEVATION = 567.31
"X-CUT" SET ON THE NOSE OF A MEDIAN LOCATED ON THE SOUTHWEST CENTER MEDIAN LOCATED AT THE INTERSECTION OF VITRUVIAN WAY AND BELLA LANE.

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.

NO.					
REVISION					
BY					
DATE					
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icon					
STREETSCAPE & TRAIL IMPROVEMENTS					
VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701					
TOWN OF ADDISON, TEXAS					
HOLIDAY LIGHT & CONDUIT PLAN					
BELLA LANE & VITRUVIAN WAY					
DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	OCT 16, 2023	AS NOTED		21

GENERAL ELECTRICAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2007 NATIONAL ELECTRICAL SAFETY CODE (ANSI C2) AND ALL LOCAL AND STATE CODES AND REGULATIONS. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY THE BUILDING AND SAFETY CODES AND ORDINANCES, AND THE RULES AND REGULATIONS OF ANY LEGAL BODY HAVING JURISDICTION.
2. ALL MATERIAL FURNISHED AND ALL LABOR PERFORMED UNDER THESE CONTRACTS SHALL BE IN STRICT ACCORDANCE WITH THE RULES, REGULATIONS, AND CODES OF NATIONAL, STATE, MUNICIPAL OR ANY OTHER AUTHORITIES THAT MAY HAVE LAWFUL JURISDICTION PERTAINING TO THE WORK SPECIFIED. EACH CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS, LICENSES, AND CERTIFICATES OF APPROVAL AND PAY THEIR FEES TO CARRY OUT HIS WORK.
3. CONTRACTOR IS CAUTIONED OF HIS SOLE RESPONSIBILITY TO ASCERTAIN THE LOCATION OF ANY AND ALL BURIED UTILITIES, AND ONLY BY EXERCISE OF DUE CAUTION CAN DAMAGE TO SAID UTILITIES AND ASSOCIATED PROPERTIES, ALONG WITH PERSONNEL INJURY OR LOSS OR LIFE, BE AVOIDED.
4. ALL CHANGES OR VARIATIONS NECESSITATED BY UNFORESEEN CONDITIONS SHALL BE VERIFIED WITH ENGINEER BEFORE SUCH CHANGES OR VARIATIONS ARE UNDERTAKEN.
5. EACH CONTRACTOR SHALL MAKE HIMSELF & HIS TRADESMEN FAMILIAR WITH THE COMPLETE SET OF DRAWINGS AND SHALL BE PARTICULARLY AWARE OF ANY AND ALL CONFLICTS REGARDING HIS TRADE AND OTHER TRADES OCCUPYING THE SAME AREA; I.E. PIPES, DUCTS, CONDUIT, ETC. WHEN INSTALLING ITEMS OF HIS TRADE EACH CONTRACTOR SHALL CONSULT WITH OTHER TRADES OCCUPYING THE SAME AREA AND THE ENGINEER TO DETERMINE THE BEST SOLUTION TO THE CONFLICT. ALL DECISIONS BY THE ENGINEER SHALL BE FINAL AND BINDING TO ALL PARTIES CONCERNED.
6. THE LOCATION OF ALL PIPES, OUTLETS, FIXTURES, ETC. SHOWN ON PLANS IS THE DESIGN INTENT. ANY REVISION OR ADJUSTMENT SHALL BE COORDINATED AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. THE ENGINEER RESERVES THE RIGHT TO MAKE REASONABLE CHANGES TO THE INDICATED LOCATIONS BEFORE WORK IS ROUGHED-IN WITHOUT ADDITIONAL CHARGE TO THE OWNER.
7. FINAL CONNECTIONS TO EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH ACTUAL EQUIPMENT SUPPLIED.
8. VERIFY EXACT LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICES (CONDUIT AND/OR WIRE), PULLBOXES, TRANSFORMER PADS, SAWCUTTING AND PATCHING, CONCRETE/PAVING, ETC. AS REQUIRED. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING OR FACTORY WIRING IN EQUIPMENT.
10. ALL COST INCURRED BY THE ACCEPTANCE OF SUBSTITUTIONS SHALL BE BORNE BY THE CONTRACTOR. PROOF FOR THE EQUALITY OF SUBSTITUTIONS SHALL BE BY THE CONTRACTOR.

13. ALL ELECTRICAL ITEMS SHALL BE U.L. LABELED AND LISTED FOR THEIR SPECIFIC USE.
12. THE ELECTRICAL CONTRACTOR SHALL PAY ALL COSTS REQUIRED BY THE LOCAL UTILITY COMPANY PROVIDING SERVICES INDICATED. ELECTRICAL CONTRACTOR SHALL COORDINATE METERING, TRANSFORMER PAD, CONNECTION POINTS AND GROUNDING WITH UTILITY COMPANY.
13. ALL SERVICE ENTRANCE EQUIPMENT, INCLUDING BUT NOT LIMITED TO ANY MAIN DISCONNECT SWITCH, PANEL, OR SWITCHBOARD, SHALL BE LISTED AND LABELED AS "SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT."
14. THE ELECTRICAL SYSTEMS SHALL BE SOLIDLY GROUNDED. ALL NON-CURRENT CARRYING METAL PARTS OF THE ELECTRICAL SYSTEM, I.E., RACEWAYS, EQUIPMENT ENCLOSURES, FRAMES, JUNCTION AND OUTLET BOXES AND OTHER CONDUCTIVE ITEMS IN CLOSE PROXIMITY WITH ELECTRICAL CIRCUITS, SHALL BE GROUNDED TO PROVIDE A LOW IMPEDANCE PATH FOR POTENTIAL GROUND FAULTS.
15. EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED IN ALL RACEWAYS AND CABLES.
16. THE NEUTRAL AND GROUND BUS SHALL BE BONDED TOGETHER AT ALL SERVICE EQUIPMENT.
17. CONDUIT SHALL BE RUN PARALLEL OR AT RIGHT ANGLES TO WALLS, CEILINGS, AND STRUCTURAL MEMBERS.
18. ALL RACEWAYS SHALL BE INSTALLED CONCEALED EXCEPT IN UNFINISHED SPACES WHERE INDICATED ON DRAWINGS.
19. ALL EMPTY CONDUITS SHALL BE EQUIPPED WITH A PULL LINE-200 LB TEST NYLON.
20. OPEN TRENCHES SHALL BE PROTECTED AND SUPERVISED AT ALL TIMES.
21. SELECT GRANULAR STRUCTURAL BACKFILL IS REQUIRED AROUND, AND 12" ABOVE, ALL CONDUIT.
22. ELECTRICAL "WARNING TAPE" SHALL BE INSTALLED IN ALL TRENCHES 12" ABOVE HIGHEST CONDUIT.
23. FASTENERS AND SUPPORTS SHALL BE AS MANUFACTURED BY GEDNEY, EFCOR OR EQUAL. SUPPORTING DEVICES SHALL BE THOSE AS MANUFACTURED FOR A SPECIFIC PURPOSE. NAILS, WIRE OR PIPE STRAP SHALL NOT BE USED.
24. ALL CIRCUIT CONDUCTORS SHALL BE COPPER, 90°C, XHHW-2 INSULATION.
25. WIRE NO. 8 AWG AND LARGER SHALL BE STRANDED, NO. 10 AND SMALLER SHALL BE SOLID. MINIMUM CONDUCTOR SIZE SHALL BE NO. 12.

26. ALL BRANCH CIRCUIT AND FEEDER CONDUCTORS, NO. 8 AWG AND SMALLER, SHALL BE COLOR CODED AS FOLLOWS (WHERE APPROVED BY THE AUTHORITY HAVING JURISDICTION):

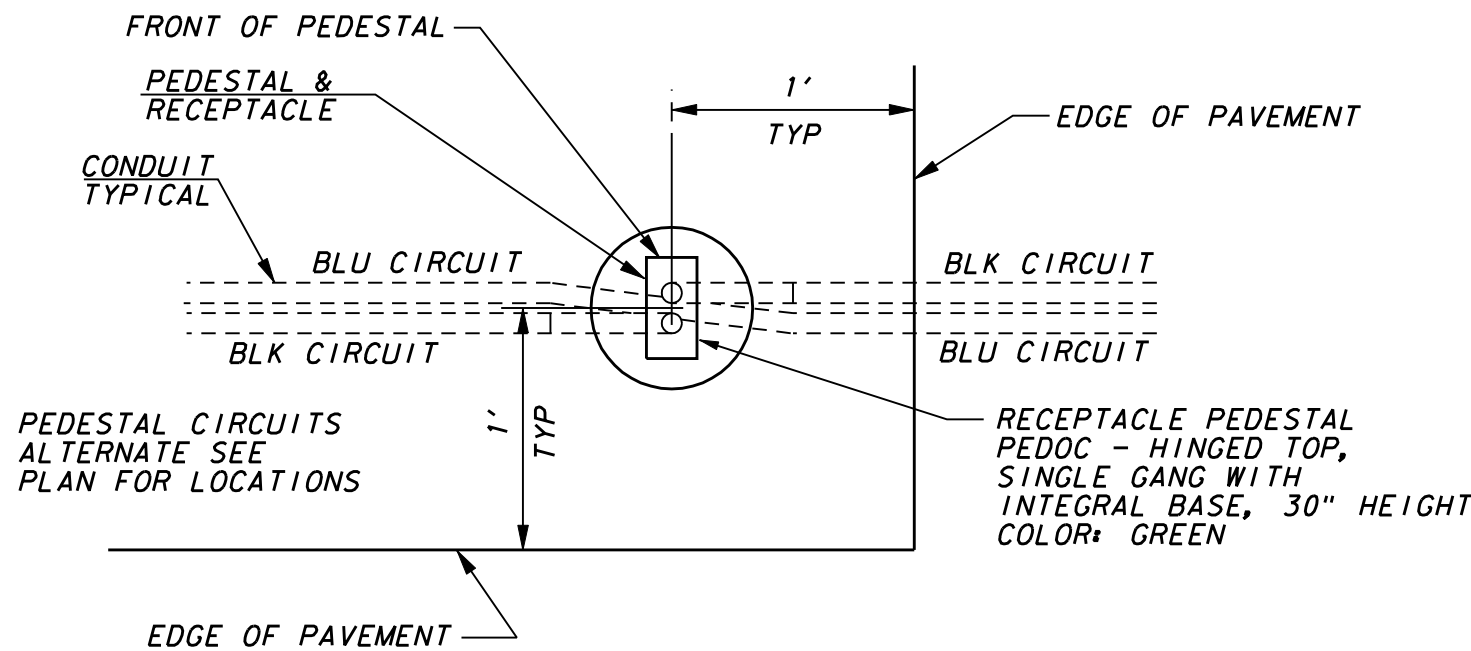
120/208 VOLT SYSTEM

PHASE A - BLACK
PHASE B - RED
PHASE C - BLUE
NEUTRAL - WHITE
GROUND - GREEN

120/240 VOLT SYSTEM

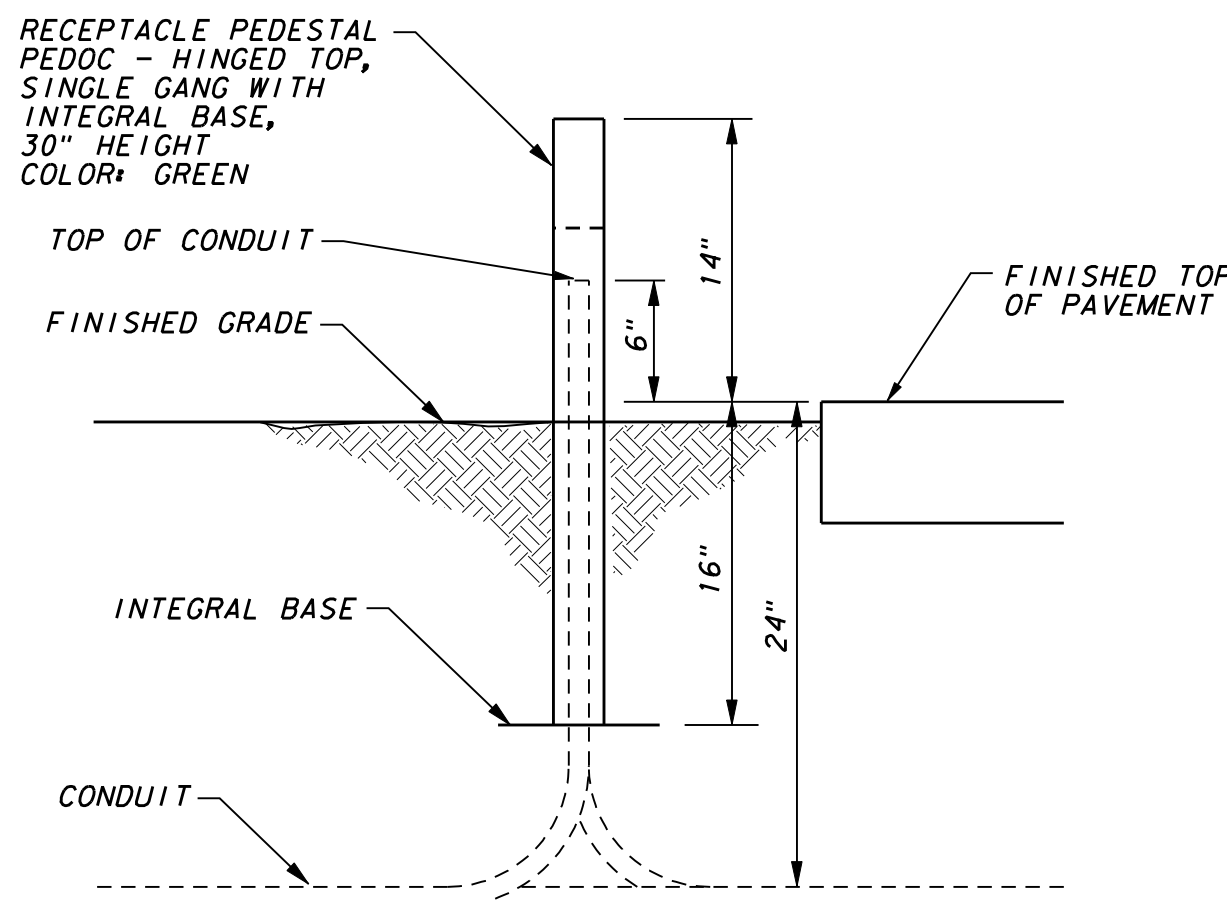
LINE 1 - BLACK
LINE 2 - BLUE
NEUTRAL - WHITE
GROUND - GREEN

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



TYPICAL LOCATION RECEPTACLE PEDESTAL

NOT TO SCALE



TYPICAL PEDESTAL SECTION

NOT TO SCALE

Panel Schedule				Single Phase		Date: 11/21/2012			
Project: Bella Lane North Pedestal - Northeast of VP103									
Panel Name:		BLNP - Bella Lane North Pedest		Volts<L-L>: 240		Main Bkr:		200 Amps	
Mfg:				Volts<L-G>: 120		Main Lugs:		Amps	
Model:				Phase: 1		Panel AIC:		22,000 Amps	
Description:				Wires: 3		Neutral Bar:		Y Y / N	
Location:		I		"I" = Indoor, "O" = Outdoor		Ground Bar:		Y Y / N	
Breaker Mounting:		S		"S" = Standard, "B" = Bolt-In					

Pos. No.	Bkr No.	Trip Amps	No. Bkr Poles	Serves	Load VA	Pos. No.	Bkr No.	Trip Amps	No. Bkr Poles	Serves
					L1 L2					
1		100	2	Contactor 1	< 10500					
					4500 > >----->	2			2	Space
3		100		Contactor 1	< <-----< 10500					
					4500 >	4				Space
5		100	2	Spare	< 0					
					1920 > >----->	6		20	1	Irrigation Controller
7		100		Spare	< <-----< 0					
					1920 >	8		20	1	Pedestal Duplex Outlet
9			1	Space	< 1920					
					1920 > >----->	10		20	1	Space
11			1	Space	< <-----< 1920					
					1920 >	12		20	1	Space

CONTRACTOR FEED SUB-PANEL										
Pos. No.	Bkr No.	Trip Amps	No. Bkr Poles	Serves	Load VA	Pos. No.	Bkr No.	Trip Amps	No. Bkr Poles	Serves
					L1 L2					
1		20	1	BL SE Black Tree Outlets	< 1750					
					1750 > >----->	2		20	1	BL SE Blue Tree Outlets
3		20	1	BLSW Black Tree Outlets	< <-----< 1750					
					1750 >	4		20	1	BL SW Blue Tree Outlets
5		20	1	FUT BL WN Black Tree Outle	< 1750					
					1750 > >----->	6		20	1	FUT BL WN Blue Tree Outlets
7		20	1	BL WS Black Tree Outlets	< <-----< 1750					
					1750 >	8		20	1	BL WS Blue Tree Outlets
9		20	1	Spare	< 1750					
					1750 > >----->	10		20	1	Space
11		20	1	Spare	< <-----< 1750					
					1750 >	12		20	1	Space
Connected VA per Leg =					20760	20760				
Total Amps per Leg =					173	173				

EXISTING BLN PEDESTAL PANEL SCHEDULE



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STREETSCAPE & TRAIL IMPROVEMENTS									
VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701									
TOWN OF ADDISON, TEXAS									
HOLIDAY LIGHT DETAILS									
DESIGN	DRAWN	DATE	SCALE	NOTES			Sheet No.		
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I. GENERAL REQUIREMENTS FOR ALL ELECTRICAL WORK

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

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

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

SUBMITTALS:

The contractor shall submit for approval six (6) copies of catalog cut sheets for each of the following three (3) categories.

Category 1. Electrical services including photocell.

Category 2. Breakaway disconnects, heat shrink tubing, heat shrink filler tape, GelCaps and ground boxes which will include loading capacity certification.

Category 3. Highmast assembly kits, when applicable. See Item 614 "Highmast Illumination Assemblies". Submittals shall be legible and shall be marked to indicate which product on a cut sheet is to be supplied. Where manufacturers provide warranties and guarantees as a customary trade practice, the Contractor shall furnish to the State such warranties and guarantees.

Any deviation from plans or specifications, including deviations due to plan error should be prominently displayed on the submittal.

Any changes not prominently noted in submittal and incorporated into the work without proper authorization will constitute grounds for rejection of that portion of the work.

II. CONDUIT

A. MATERIALS

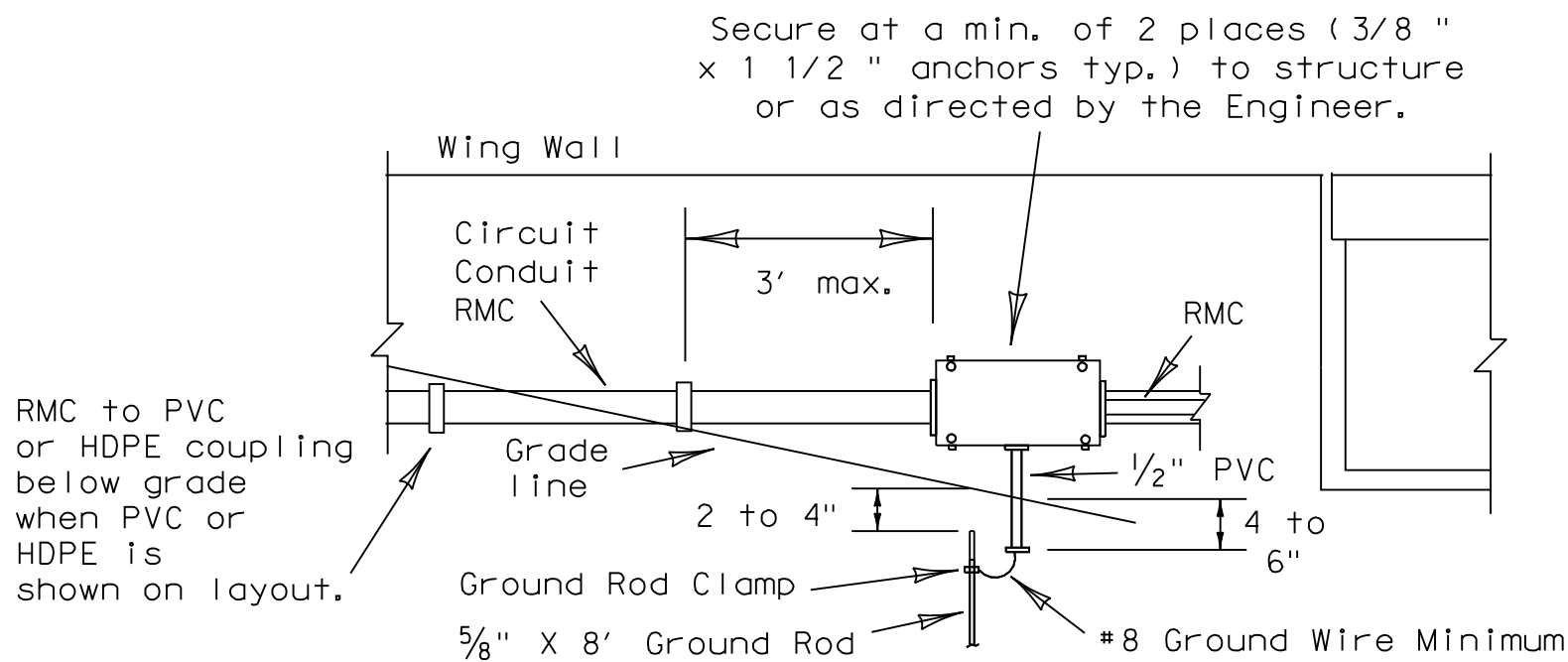
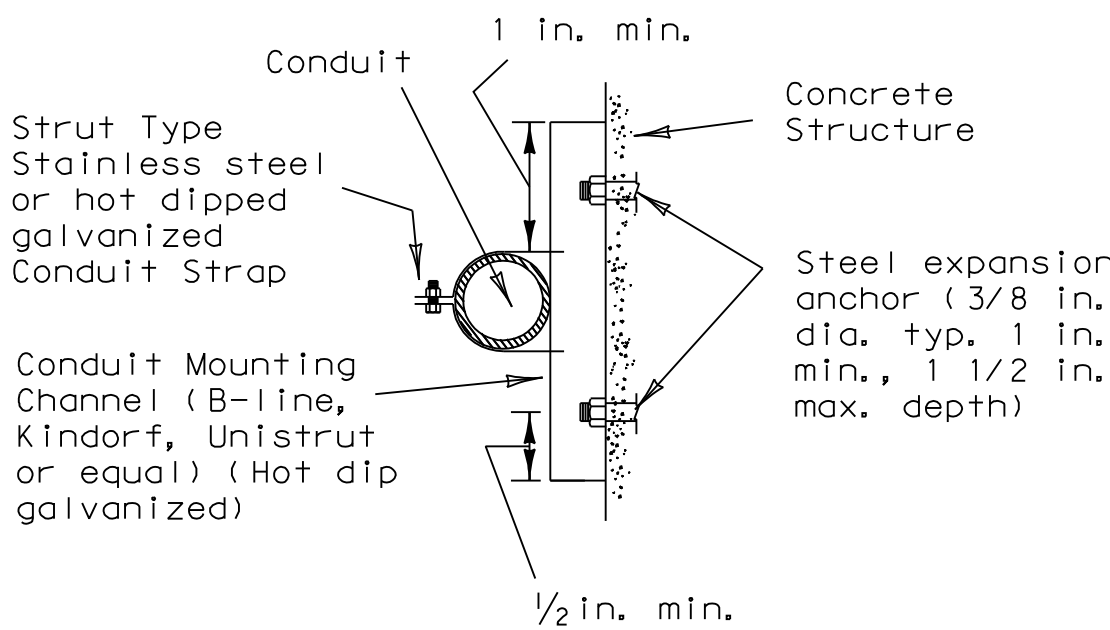
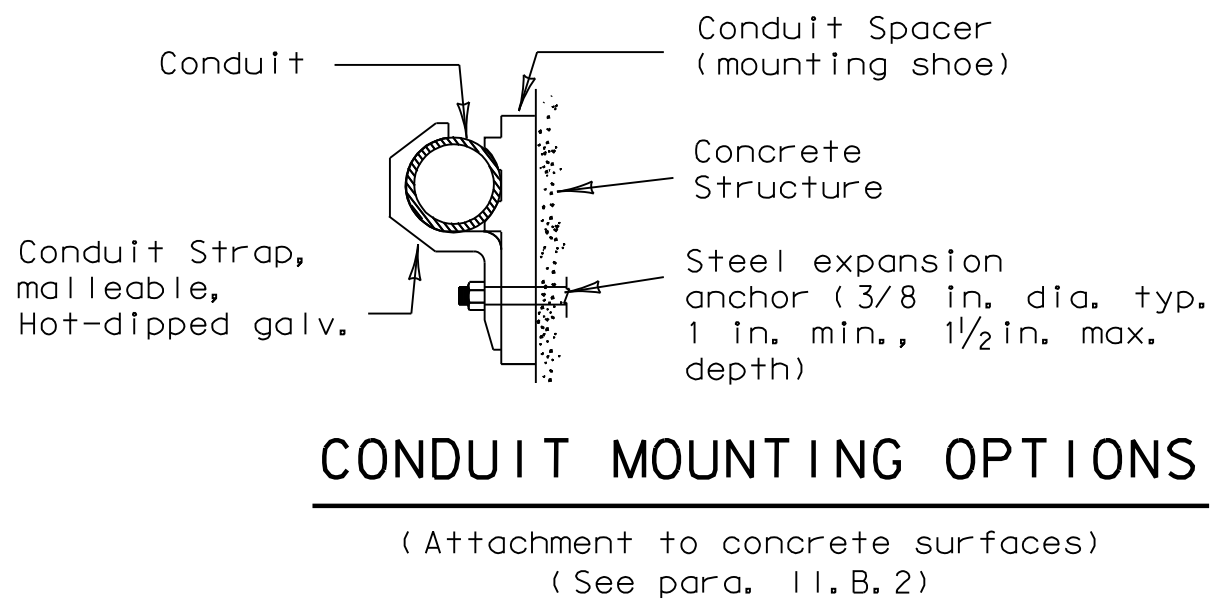
- Conduit and fittings shall be UL Listed for the intended use shown on plan sheets.
- Conduit shall be the type shown by descriptive code or shown elsewhere on the plans. Substitution of the various types of conduits will not be permitted. All flexible conduit in rigid metallic conduit (RMC) systems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

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

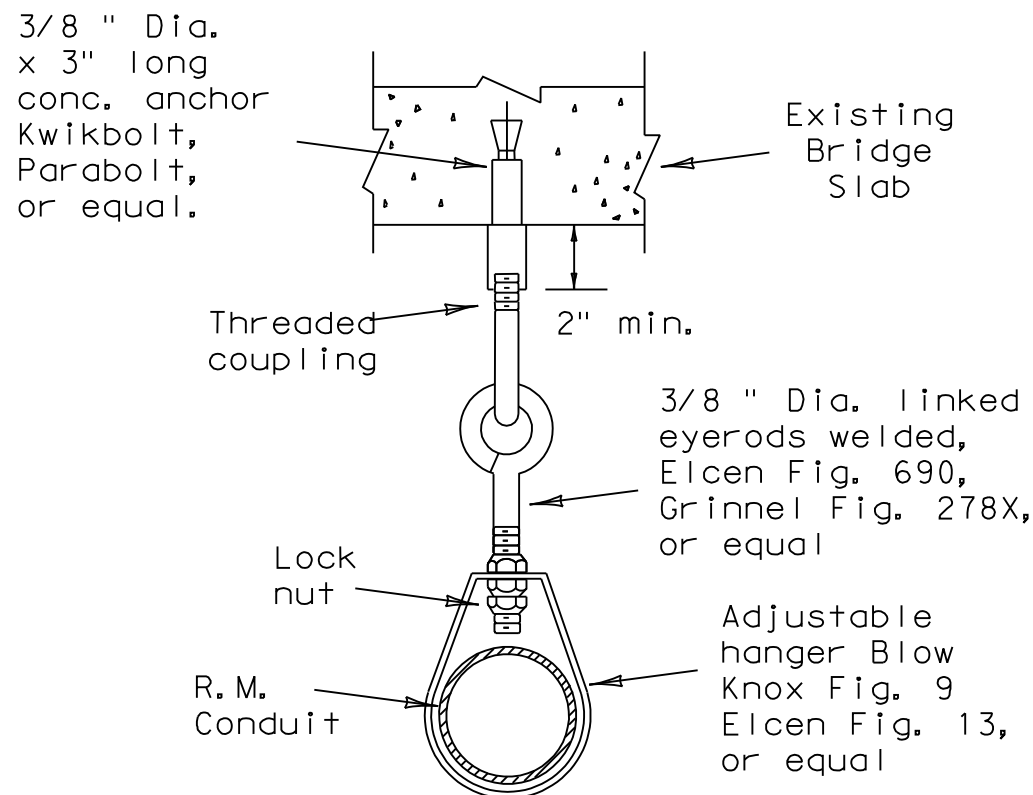
- RMC system junction boxes equal to or smaller, in any dimension, than 12 x 12 x 6 (HxWxD), surface mounted and containing conductors #8 or larger, shall be hot dipped galvanized cast iron with minimum wall thickness of 3/16 inch, shall have external mounting lugs, and shall be UL listed Crouse-Hinds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

B. CONSTRUCTION METHODS

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



TYPICAL CONDUIT ENTRY TO BRIDGE STRUCTURE DETAIL



CONDUIT HANGER DETAIL

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

5/03 Revision
Revised notes.

STANDARD PLANS
TEXAS DEPARTMENT OF TRANSPORTATION
Traffic Operations Division

ELECTRICAL DETAILS-
CONDUIT

ED(1)-03

© TxDOT January 1992		DW - KB	CK - JW	DW - DN	CK - GC	NEG NO. 1
REVISIONS 4-98 12-00 3-03 5-03	STATE DISTRICT	FEDERAL REGION	FEDERAL AID PROJECT			SHEET
		6				23
	COUNTY		CONTROL	SECTION	JOB	HIGHWAY

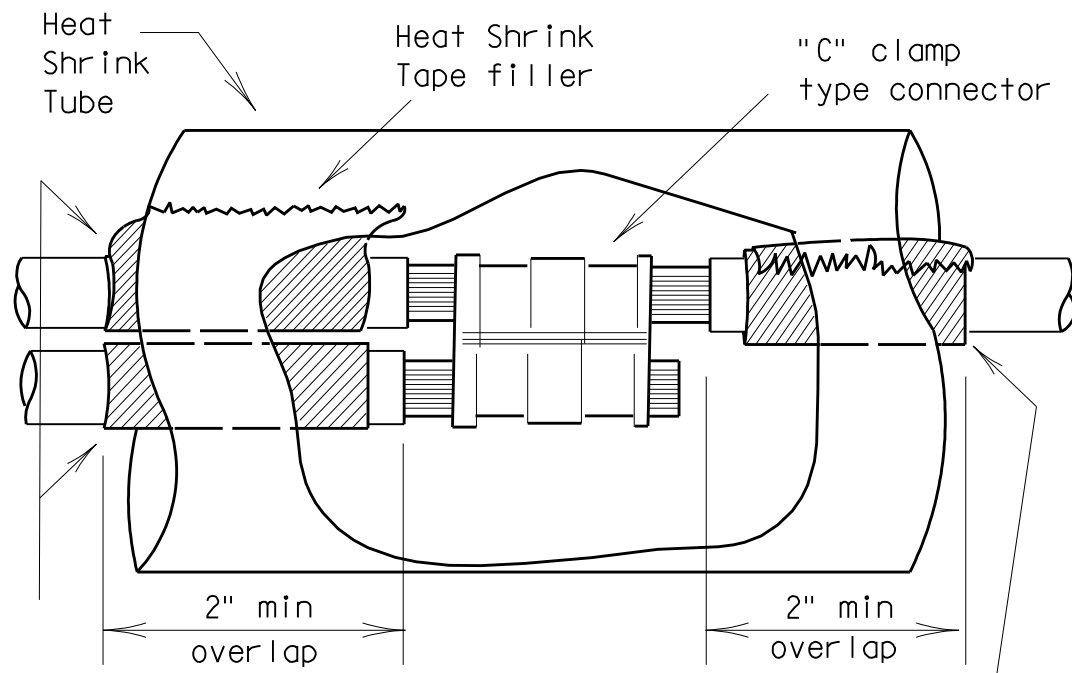
I. ELECTRICAL CONDUCTORS

A. MATERIALS

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

B. CONSTRUCTION METHODS

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

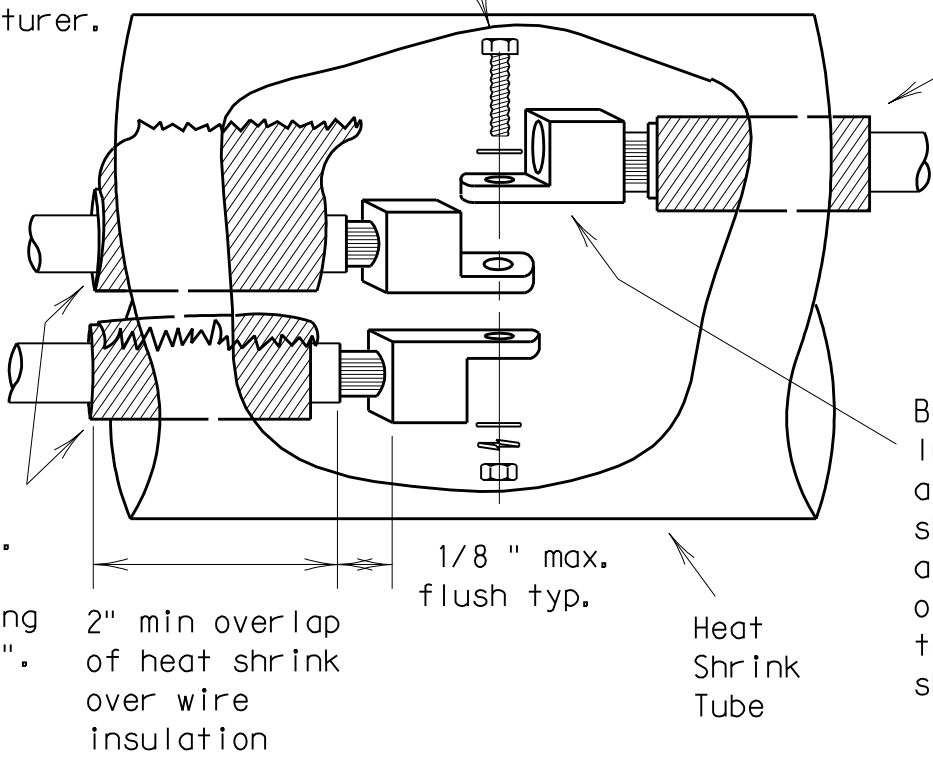


Seal between
Conductors with
heat shrink tape.
Tape to extend
past end of tubing
by 1/8 " to 1/4 ".

Increase insulation
diameter with
heat shrink tape
if necessary.
Tape to extend
past end of tubing
by 1/8 " to 1/4 ".

SPLICE OPTION 1
C-CLAMP

Stainless steel or brass machine
screw, nut, 2 flat washers, lock
washer or self locking nut.
Machine screw to be a min.
of 10-24, 3/16 or the same
size as the mounting hole
provided by the manufacturer.
Secure wrench tight.
Movement of lugs after
final assembly shall be
considered to be a
defective connection.



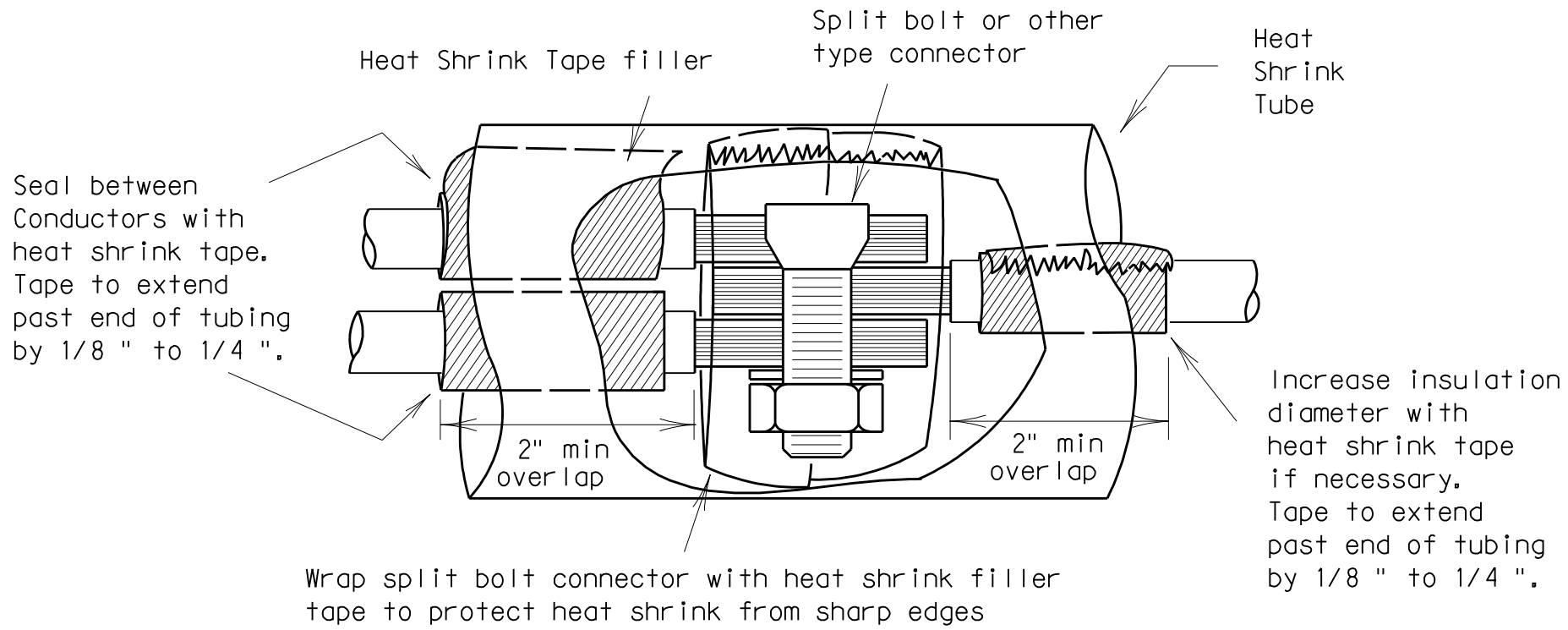
Seal between
Conductors with
heat shrink tape.
Tape to extend
past end of tubing
by 1/8 " to 1/4 ".

Increase insulation
diameter with
heat shrink tape
if necessary.
Tape to extend
past end of tubing
by 1/8 " to 1/4 ".

Bolt together
lugs and prior to
applying heat
shrink tubing,
apply two layers
of heat shrink
tape to cover
sharp edges.

SPLICE OPTION 2
BOLTED WIRE LUGS

SPLICE OPTION 3
SPLIT BOLT



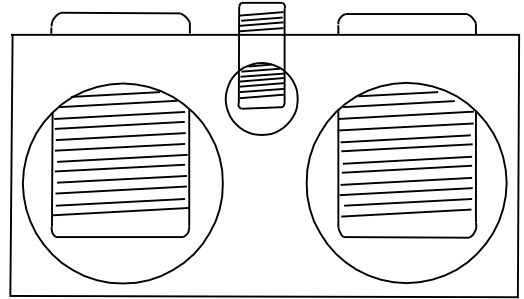
Wrap split bolt connector with heat shrink filler
tape to protect heat shrink from sharp edges

Increase insulation
diameter with
heat shrink tape
if necessary.
Tape to extend
past end of tubing
by 1/8 " to 1/4 ".

SPLICE OPTION 4

GELCAP

GelCap shall be sized and
installed according to
manufacturers
specifications



Optional
Lug for making
connections

Filled with high
dielectric insulating
gel silicone sealant

See through
molded cover

Snap-lock, molded
polypropylene clamp

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

C. TEMPORARY WIRING

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



STANDARD PLANS
TEXAS DEPARTMENT OF TRANSPORTATION
Traffic Operations Division

**ELECTRICAL DETAILS-
CONDUCTORS**

ED(2)-03

© TxDOT January 1992		DW- KB	CK- JW	DW- DN	CK- GC	NEG NO. 1
REVISIONS	STATE DISTRICT	FEDERAL REGION	FEDERAL AID PROJECT			SHEET
10-93						24
4-98		6				
12-00	COUNTY		CONTROL	SECTION	JOB	HIGHWAY
3-03						

II. GROUND RODS

A. MATERIALS

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

B. CONSTRUCTION METHODS

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

III. GROUND BOX

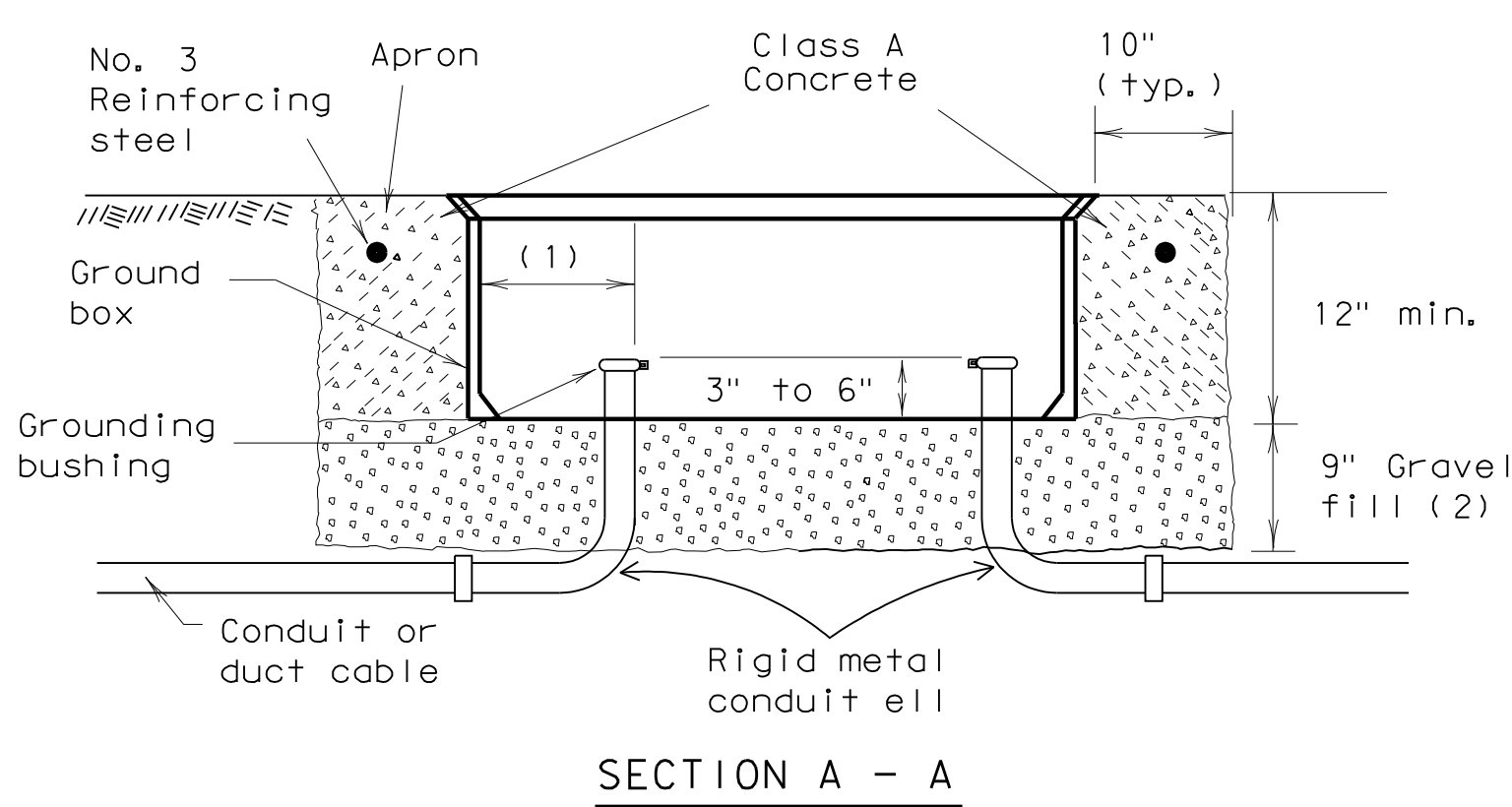
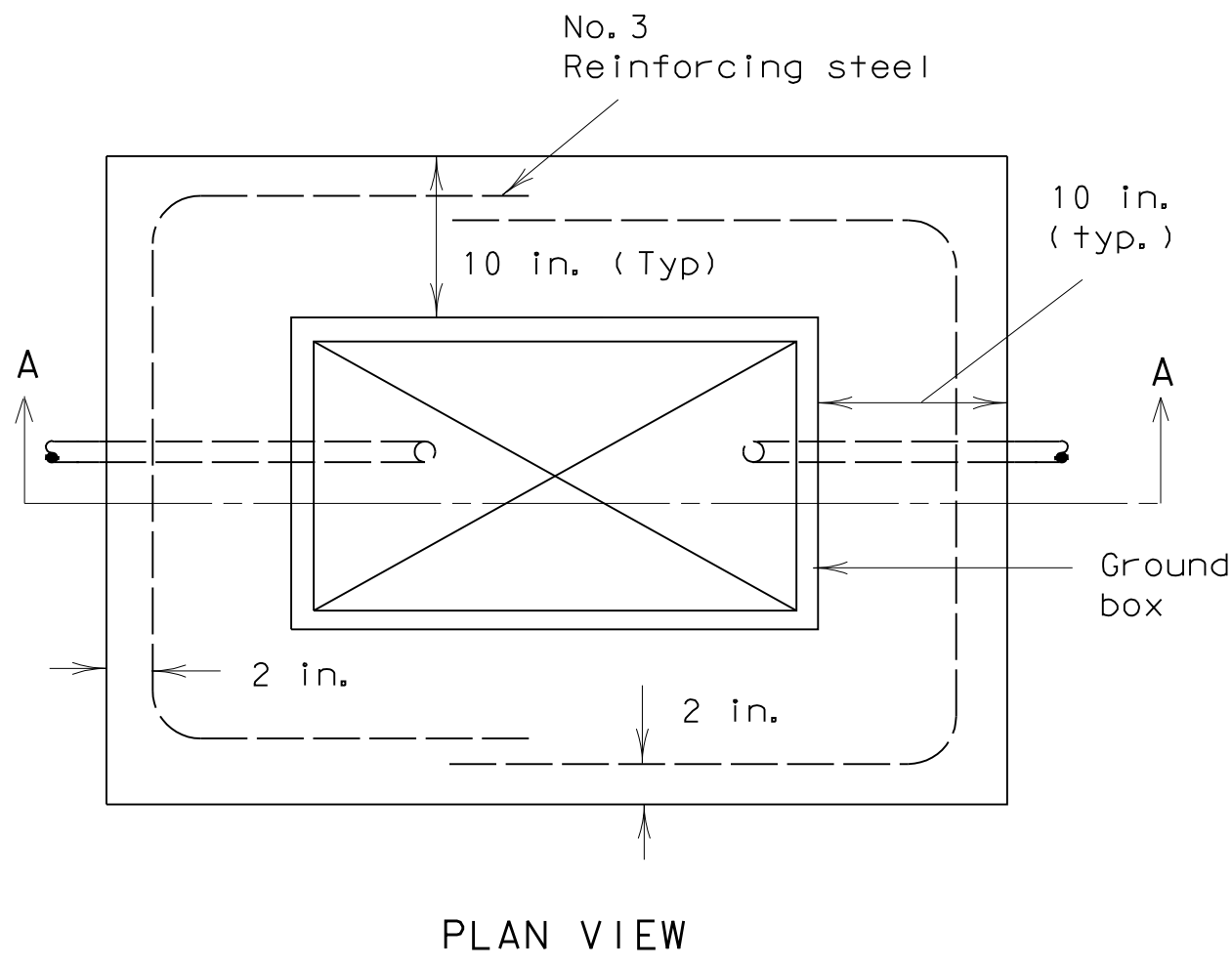
A. MATERIALS

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

B. CONSTRUCTION METHODS

1

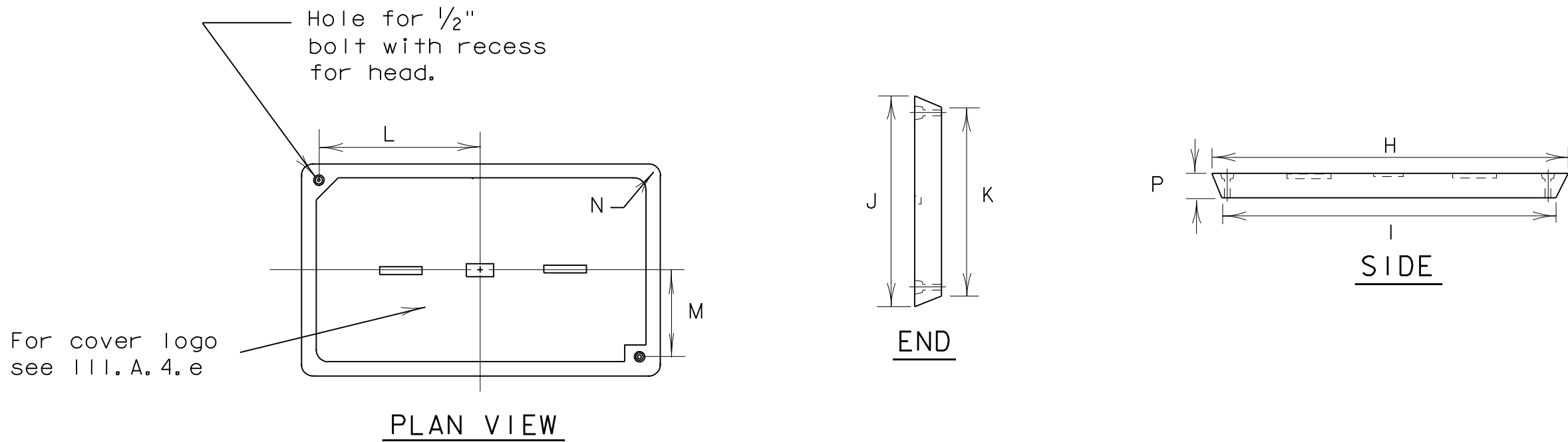
- Ground boxes shall be set on a 9 inch (minimum) bed of aggregate from 3/4 " up to 2" in size. Aggregate shall be in place prior to setting box and conduits shall be capped. Any gravel or dirt in conduit shall be removed.
- When required by item descriptive code, construction of an apron encasing a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



APRON FOR GROUND BOXES

(Where required)

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



GROUND BOX COVER

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

STANDARD PLANS
TEXAS DEPARTMENT OF TRANSPORTATION
Traffic Operations Division

ELECTRICAL DETAILS-
GROUND BOXES

ED(3)-03

5/03 Revision

Revised
notes.

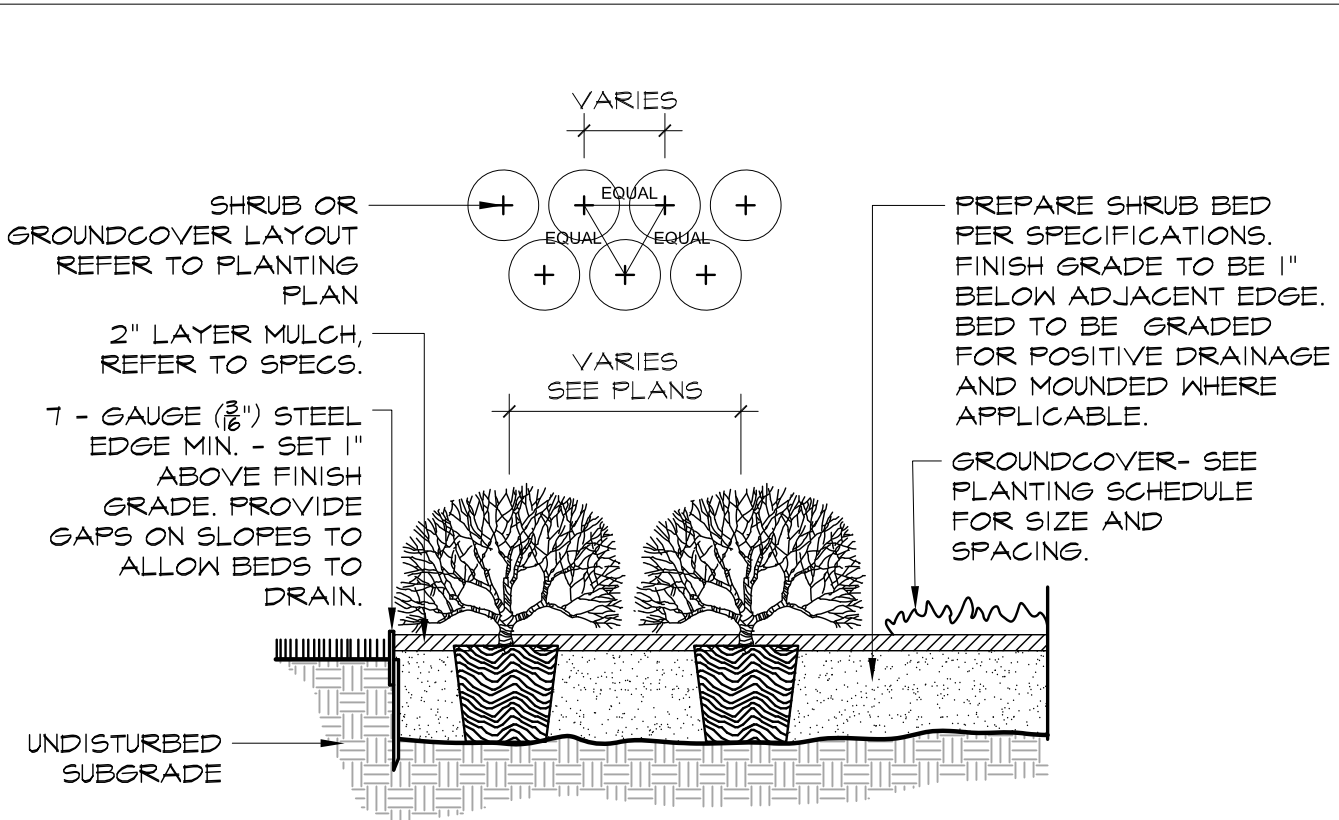
© TxDOT January 1992	DN - KB	CK - JW	DN - DN	CK - GC	NEG NO. 1
REVISIONS 4-98 12-00 3-03 5-03	STATE DISTRICT 6	FEDERAL REGION	FEDERAL AID PROJECT		
COUNTY			CONTROL	SECTION	JOB
					HIGHWAY
					SHEET 25

GENERAL NOTES:

1. WARNING!!!!!!! CALL BEFORE YOU DIG!!!!!! TOLL FREE 811
2. WRITTEN DIMENSIONS PREVAIL OVER SCALED DIMENSIONS. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
3. THE CONTRACTOR BEARS ALL RESPONSIBILITY FOR VERIFYING ALL UNDERGROUND UTILITIES, PIPES, STRUCTURES, AND LINE RUNS IN THE FIELD PRIOR TO CONSTRUCTION. ANY DAMAGE TO UTILITIES THAT ARE TO REMAIN SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER. LANDSCAPE ARCHITECT ASSUMES NO RESPONSIBILITY FOR ANY NOT SHOWN ON PLANS.
4. THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
5. ALL PROPOSED AND FINISHED GRADES ARE BASED ON INFORMATION PROVIDED BY THE OWNER'S SURVEY AND/OR CIVIL ENGINEER. ANY DISCREPANCIES IN ACTUAL FIELD MEASUREMENTS ARE TO BE REPORTED TO THE LANDSCAPE ARCHITECT IMMEDIATELY.
6. CONTRACTOR IS RESPONSIBLE FOR ALL QUANTITIES PER DRAWINGS AND SPECIFICATIONS. ANY QUANTITIES PROVIDED BY LANDSCAPE ARCHITECT ARE PROVIDED FOR CONVENIENCE ONLY CONTRACTORS ARE TO BID THEIR OWN VERIFIED QUANTITIES. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
7. EASEMENTS SETBACKS, BUILDING, CURB AND GUTTER, UNDERGROUND UTILITIES HAVE BEEN SUPPLIED TO LANDSCAPE ARCHITECT BY THE PROJECT CIVIL ENGINEER. REFER TO CIVIL ENGINEERS DRAWINGS FOR ADDITIONAL INFORMATION.
8. STUDIO OUTSIDE ASSUMES NO RESPONSIBILITY FOR DAMAGES, LIABILITIES, OR COST RESULTING FROM CHANGES OR ALTERATIONS MADE TO THE PLAN WITHOUT THE EXPRESS WRITTEN CONSENT OF STUDIO OUTSIDE.

PLANTING NOTES:

1. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND UTILITIES, PIPES, STRUCTURES, AND LINE RUNS IN THE FIELD PRIOR TO THE INSTALLATION OF ANY PLANT MATERIAL..
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADVISE THE LANDSCAPE ARCHITECT OF ANY CONDITION FOUND ON THE SITE WHICH PROHIBITS INSTALLATION AS SHOWN ON THESE DRAWINGS.
3. ALL PLANT MATERIAL SHALL BE MAINTAINED IN A HEALTHY AND GROWING CONDITION AND MUST BE REPLACED WITH PLANT MATERIAL OF SAME VARIETY AND SIZE IF DAMAGED, DESTROYED, OR REMOVED.
4. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR FINE GRADING AND REMOVAL OF DEBRIS PRIOR TO PLANTING IN ALL AREAS.
5. FINAL FINISH GRADING SHALL BE REVIEWED BY THE LANDSCAPE ARCHITECT. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL TOPSOIL REQUIRED TO CREATE A SMOOTH CONDITION PRIOR TO PLANTING.
6. ALL PLANT QUANTITIES LISTED ARE FOR INFORMATION ONLY. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE FULL COVERAGE IN ALL PLANTING AREAS AS SPECIFIED IN THE PLANT SCHEDULE AND VERIFY ALL QUANTITIES.
7. LANDSCAPE CONTRACTOR TO PROVIDE STEEL EDGING (REFER TO MATERIALS PAGE) BETWEEN ALL PLANTING BEDS AND LAWN AREAS.
8. ALL PLANT MATERIAL SHALL CONFORM TO THE SPECIFICATIONS AND SIZES GIVEN IN THE PLANT LIST AND SHALL BE NURSERY GROWN IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK. LATEST EDITION AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS. ANY PLANT SUBSTITUTION SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO PURCHASE.
9. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ANY COORDINATION WITH OTHER CONTRACTOR'S ON SITE AS REQUIRED TO ACCOMPLISH ALL PLANTING OPERATIONS.
10. ALL NEW PLANTING AREAS TO BE AMENDED PER SPECIFICATIONS.
11. ANY PLANT MATERIAL THAT DOES NOT SURVIVE SHALL BE REPLACED WITH AN EQUIVALENT SIZE AND SPECIES WITHIN THIRTY (30) DAYS.
12. PLANT MATERIAL SHALL BE PRUNED AS NECESSARY TO CONTROL SIZE BUT NOT TO DISRUPT THE NATURAL GROWTH PATTERN OR CHARACTERISTIC FORM OF THE PLANT EXCEPT AS NECESSARY TO ACHIEVE HEIGHT CLEARANCE FOR VISIBILITY AND PEDESTRIAN PASSAGE OR TO ACHIEVE A CONTINUOUS OPAQUE HEDGE IF REQUIRED.
13. LANDSCAPED AREAS SHALL BE KEPT FREE OF TRASH, WEEDS, DEBRIS, AND DEAD PLANT MATERIAL
14. ALL LIME STABILIZED SOIL & INORGANIC SELECT FILL MUST BE REMOVED FROM PLANTING AREAS TO A DEPTH OF 24" & REPLACED WITH ORGANIC IMPORTED TOPSOIL FILL. IMPORTED TOPSOIL MUST BE CLEAN, FRIABLE & NATIVE TO THE AREA.
15. REFER TO SPECIFICATIONS FOR BED PREPARATION REQUIREMENTS.
16. LANDSCAPING MUST NOT BE INSTALLED UNTIL AUTOMATIC IRRIGATION SYSTEM IS FULLY OPERATIONAL.
17. TREES SHOULD NOT BE DELIVERED TO THE SITE UNLESS THEY CAN PLANTED THE SAME DAY.



Shrubs & Groundcover

B

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

PLANT SCHEDULE - STREET

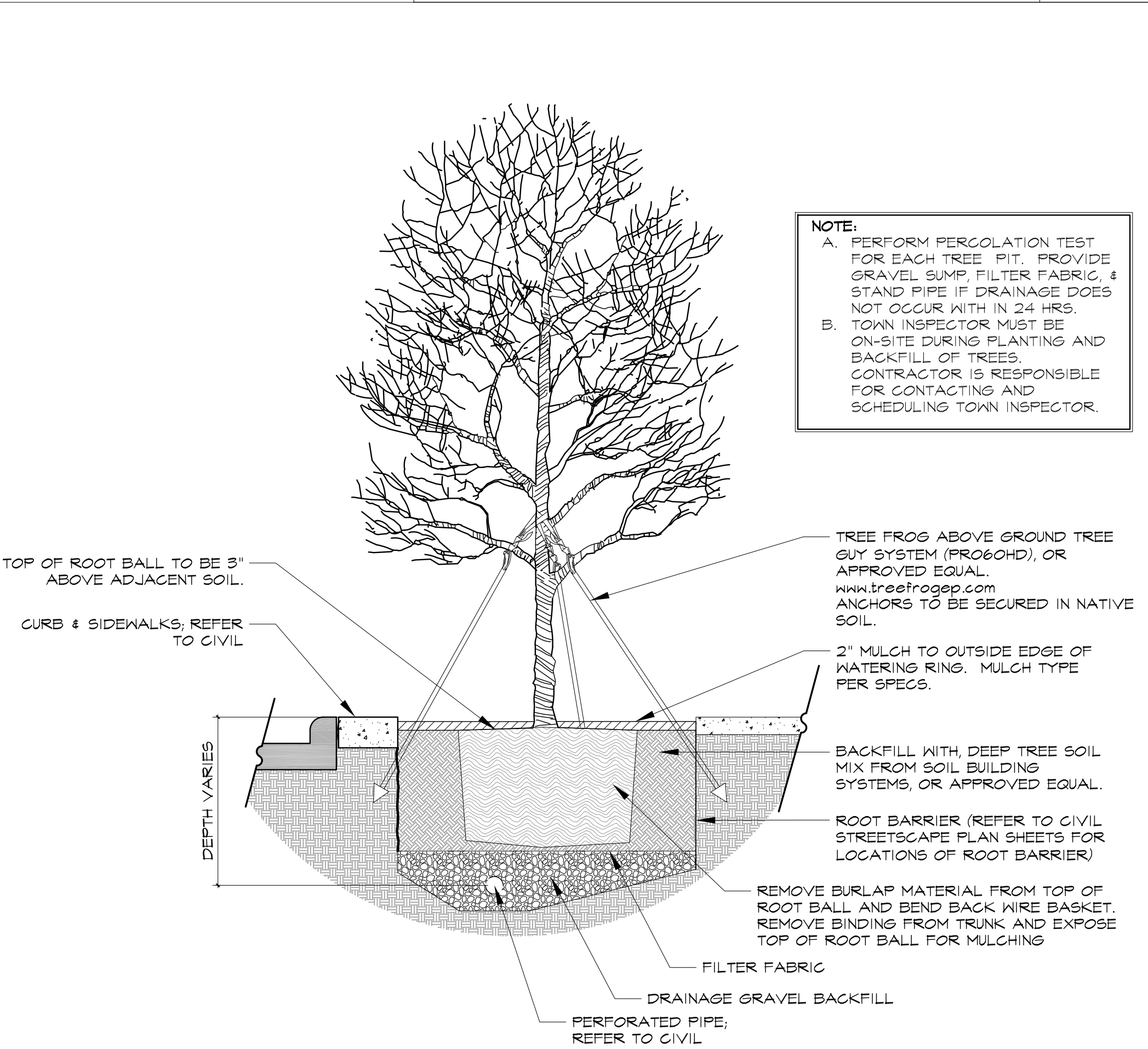
QTY.	SYMBOL	PLANT ABBR.	BOTANICAL NAME COMMON NAME	MINIMUM SIZE	MINIMUM HEIGHT	MINIMUM SPREAD	MAXIMUM SPACING	COMMENTS
SHADE TREES								
2		QV	Quercus virginiana 'SPLN' CATHEDRAL LIVE OAK	6" GAL. B1B/CONT.	14'-16'	8'		STRONG CENTRAL LEADER, MATCHED, FULL, WELL BRANCHED 1'-0" CLEAR TRUNK
11		PC	Pistacia chinensis CHINESE PISTACHE	4" GAL. B1B/CONT.	14'-16'	8'		STRONG CENTRAL LEADER, MATCHED, FULL, WELL BRANCHED 1'-0" CLEAR TRUNK
ORNAMENTAL GRASSES & GROUNDCOVERS								
525 SQ FT		CT	Carex texensis TEXAS SEDGE	1 GAL.	12"	12"	12"	NURSERY GROWN, WELL ROOTED, FULL TO CONTAINER
840 SQ FT		LM	Liriope muscari LIRIOPE	1 GAL.	6"	12"	12"	NURSERY GROWN, WELL ROOTED, FULL TO CONTAINER
4,475 SQ FT		CA	Carex tumulicola BERKELEY SEDGE	1 GAL.	12"	12"	18"	NURSERY GROWN, WELL ROOTED, FULL TO CONTAINER

PLANT SCHEDULE - TRAIL

QTY.	SYMBOL	PLANT ABBR.	BOTANICAL NAME COMMON NAME	MINIMUM SIZE	MINIMUM HEIGHT	MINIMUM SPREAD	MAXIMUM SPACING	COMMENTS
SCREENING SHRUBS								
11		JV	Juniperus virginiana 'Taylor' TAYLOR JUNIPER	45 GAL.	8'-10'	3'-4'	30"	STRONG CENTRAL LEADER, MATCHED, FULL, WELL BRANCHED
MEDIUM SHRUBS								
90		AR	Abelia x 'Rose Creek' ROSE CREEK ABELIA	3 GAL.	15"	12"	30"	NURSERY GROWN, WELL ROOTED, FULL TO CONTAINER
114		IV	Ilex vomitoria 'Nana' DWARF YAUFON	3 GAL.	15"	18"	30"	NURSERY GROWN, WELL ROOTED, FULL TO CONTAINER
ORNAMENTAL GRASSES & GROUNDCOVERS								
406		BG	Muhlenbergia capillaris GULF MUHLY	3 GAL.	30"	12"	24"	NURSERY GROWN, WELL ROOTED, FULL TO CONTAINER
907 SQ FT		CT	Carex texensis TEXAS SEDGE	1 GAL.	12"	12"	12"	NURSERY GROWN, WELL ROOTED, FULL TO CONTAINER

TREE REMOVAL LIST				
No.	Type	Condition	Size (Cal.)	Mitigation (Cal.)
1	LIVE OAK	Good	8"	8"
2	LIVE OAK	Good	6"	6"
TOTAL			14"	14"

PROPOSED TREE LIST		
Qty.	Type	Size(Cal.)
2	LIVE OAK	6"
11	CHINESE PISTACHE	4"
TOTAL PROPOSED		56"
TOTAL MITIGATED ON SITE		14"



Ball and Burlap Canopy Tree 6" Caliper or Smaller (planted in ROW)

A

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



01.19.2023

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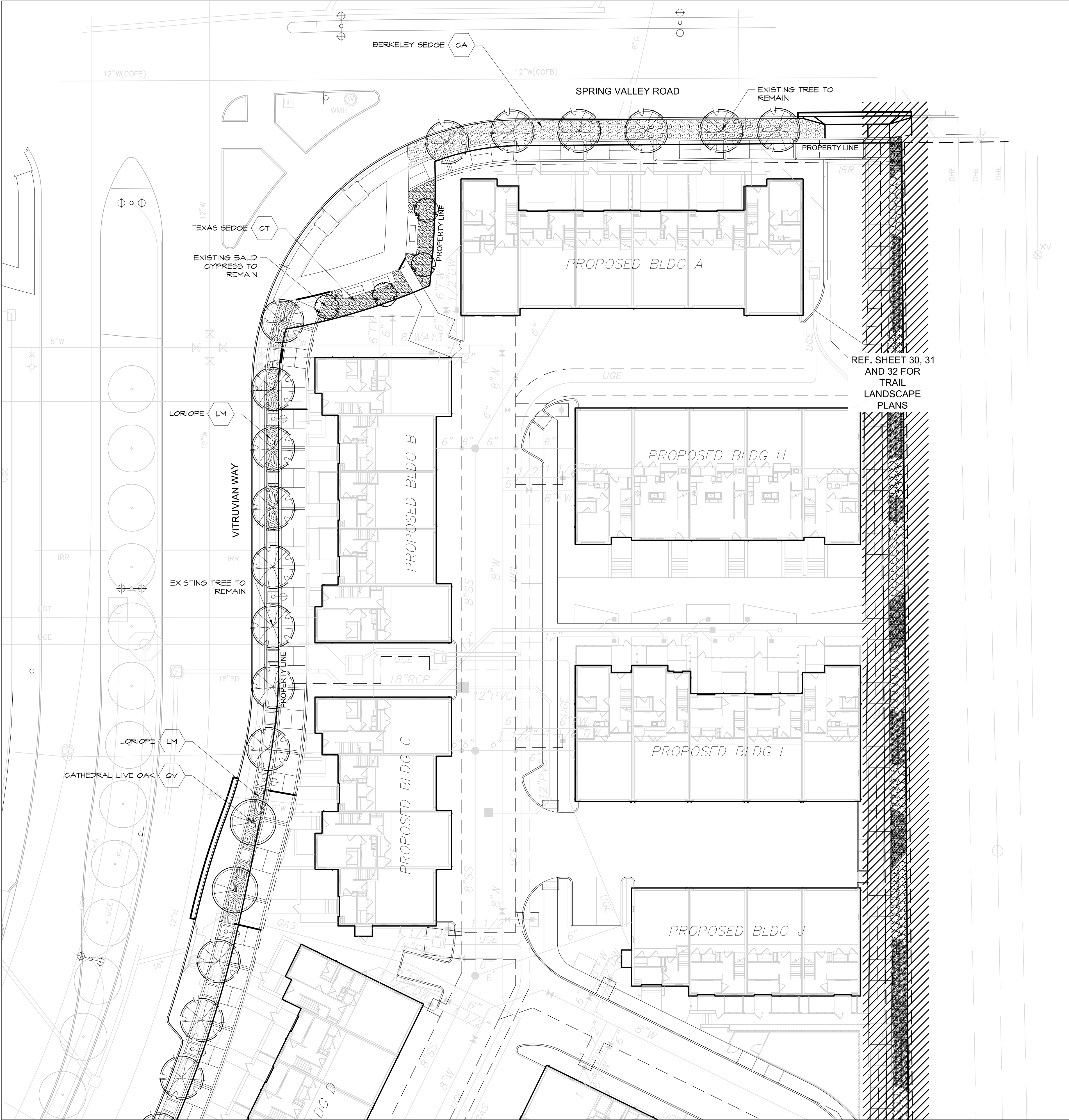
STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

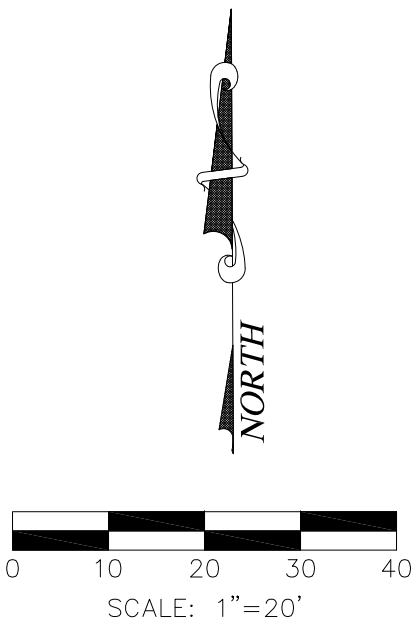
TOWN OF ADDISON, TEXAS

LANDSCAPE LEGEND & DETAILS

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
BG	LZ	NOV 14, 2022	AS NOTED		26



SYMBOL	PLANT ABBR.	BOTANICAL NAME COMMON NAME
SHADE TREES		
	QV	Quercus virginiana 'SDLN' CATHEDRAL LIVE OAK
	PC	Pistacia chinensis CHINESE PISTACHE
ORNAMENTAL GRASSES & GROUNDCOVERS		
	CT	Carex texensis TEXAS SEDGE
	LM	Liriope muscari LIRIOPE
	CA	Carex tumulicola BERKELEY SEDGE



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VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701
TOWN OF ADDISON, TEXAS
LANDSCAPE PLAN - NORTH

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
BG	LZ	NOV 14, 2022	AS NOTED		27

STREETSCAPE & TRAIL IMPROVEMENTS - VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701 - PROJECT NO. 5029-08

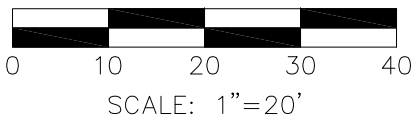
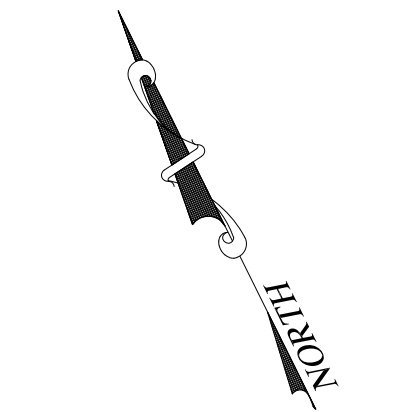


SYMBOL	PLANT ABBR.	BOTANICAL NAME COMMON NAME
SHADE TREES		
	QV	Quercus virginiana 'SDLN' CATHEDRAL LIVE OAK
	PC	Pistacia chinensis CHINESE PISTACHE
ORNAMENTAL GRASSES & GROUNDCOVERS		
	CT	Carex texensis TEXAS SEDGE
	LM	Liriope muscari LIRIOPE
	CA	Carex tumulicola BERKELEY SEDGE

REF. SHEET 30, 31
AND 32 FOR
TRAIL
LANDSCAPE
PLANS



01.19.2023

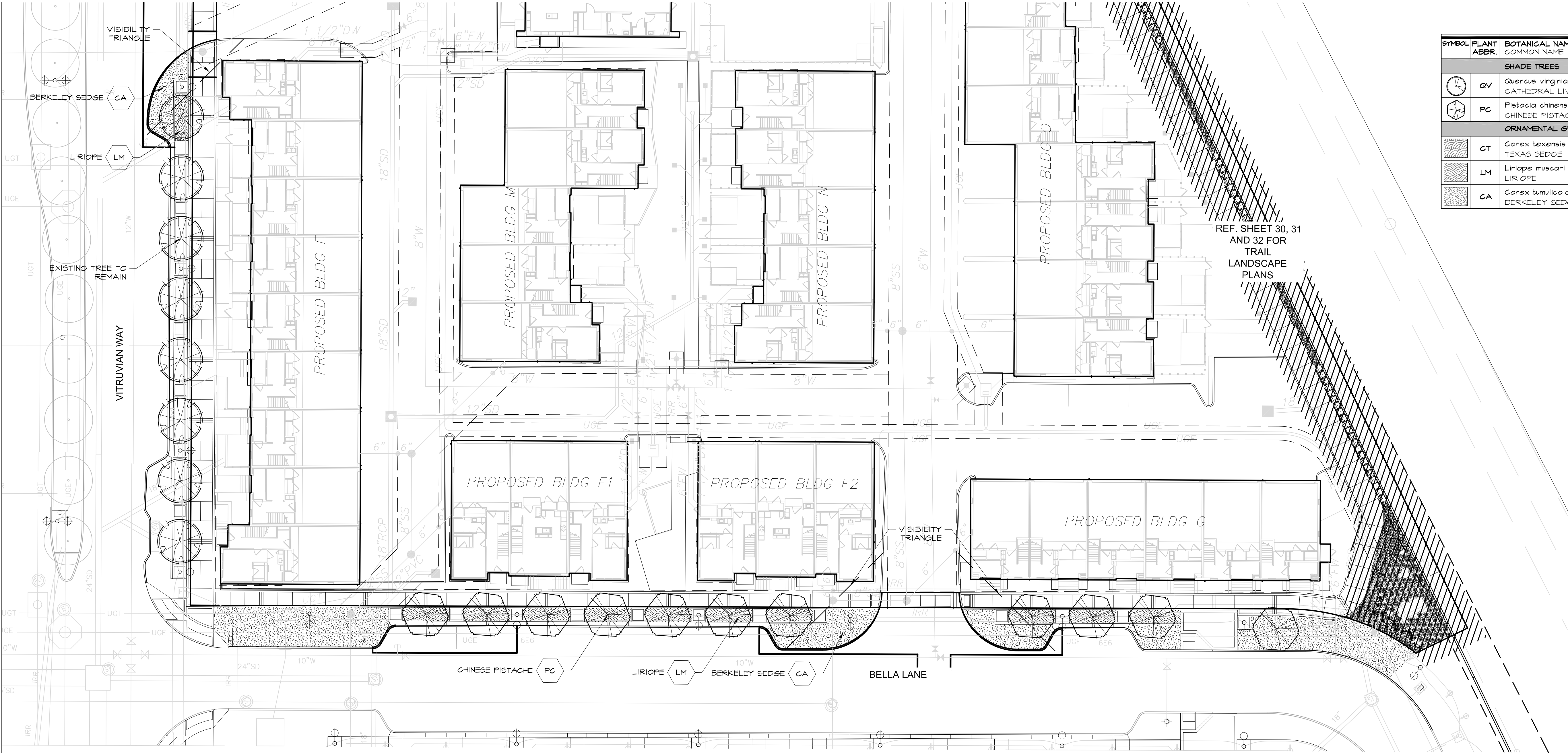


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	CITY RE-SUBMITTAL	SO	11/14/22
0	CITY SUBMITTAL	SO	03/30/22
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STREETSCAPE & TRAIL IMPROVEMENTS
VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701
TOWN OF ADDISON, TEXAS
LANDSCAPE PLAN - CENTER

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
BG	LZ	NOV 14, 2022	AS NOTED		28

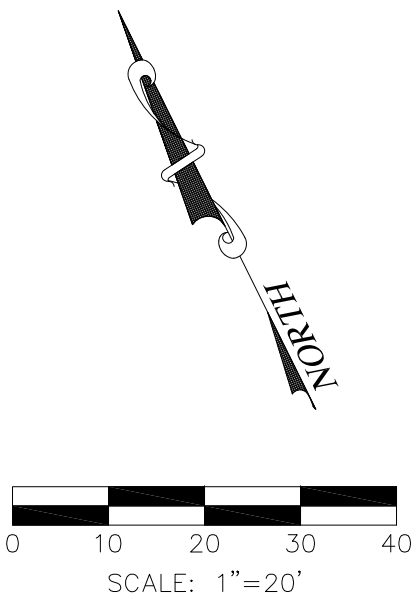


SYMBOL	PLANT ABBR.	BOTANICAL NAME COMMON NAME
SHADE TREES		
	QV	Quercus virginiana 'SDLN' CATHEDRAL LIVE OAK
	PC	Pistacia chinensis CHINESE PISTACHE
ORNAMENTAL GRASSES & GROUNDCOVERS		
	CT	Carex texensis TEXAS SEDGE
	LM	Liriope muscari LIRIOPE
	CA	Carex tumulicola BERKELEY SEDGE

REF. SHEET 30, 31
AND 32 FOR
TRAIL
LANDSCAPE
PLANS



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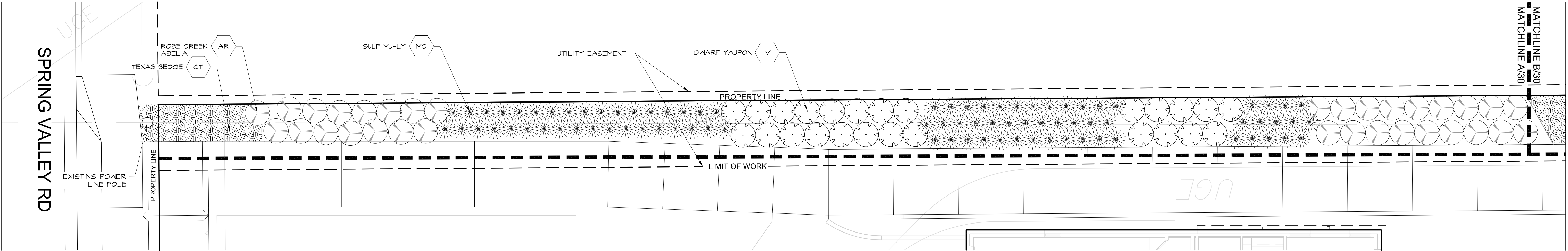
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VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

TOWN OF ADDISON, TEXAS

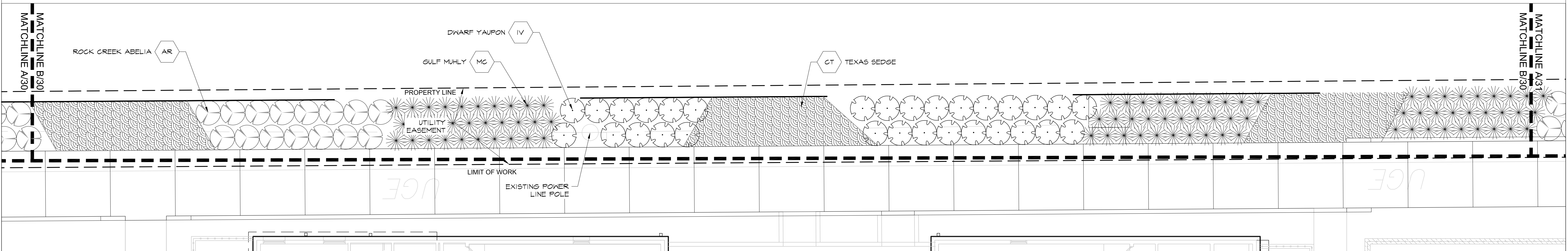
LANDSCAPE PLAN - SOUTH

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
BG	LZ	NOV 14, 2022	AS NOTED		29



Landscape Plan - Trail A

1" = 6'-0"



Landscape Plan - Trail B

1" = 6'-0"

SYMBOL	PLANT ABBR.	BOTANICAL NAME COMMON NAME
SCREENING SHRUBS		
	JV	Juniperus virginiana 'Taylor' TAYLOR JUNIPER
MEDIUM SHRUBS		
	AR	Abelia x 'Rose Creek' ROSE CREEK ABELIA
	IV	Ilex vomitoria 'Nana' DWARF YAUPO
ORNAMENTAL GRASSES & GROUNDCOVERS		
	BG	Muhlenbergia capillaris GULF MUHLY
	CT	Carex texensis TEXAS SEDGE



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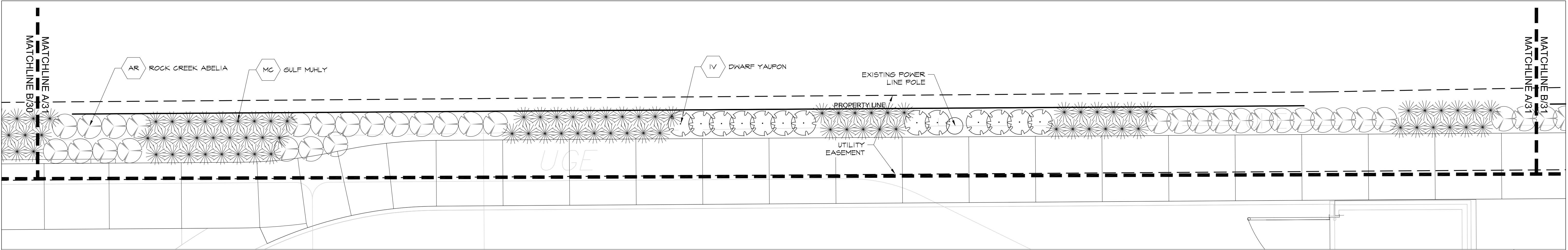
STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

TOWN OF ADDISON, TEXAS

LANDSCAPE PLAN - TRAIL

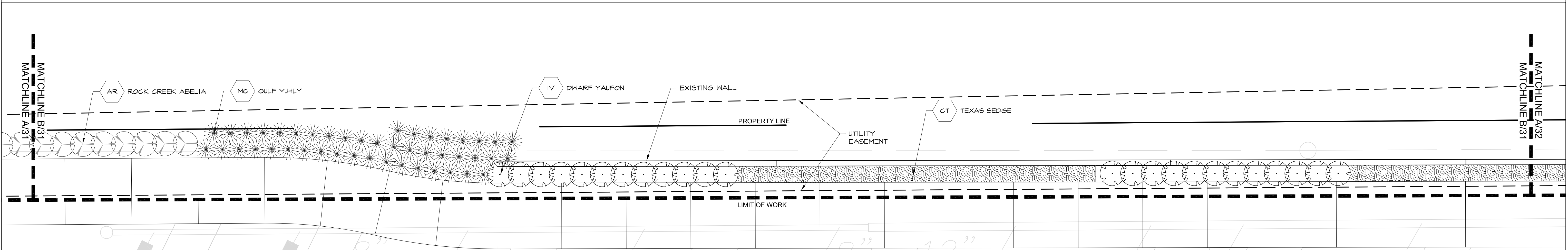
DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
BG	LZ	NOV 14, 2022	AS NOTED		30



Landscape Plan - Trail

A

1" = 6'-0"



Landscape Plan - Trail

B

1" = 6'-0"

SYMBOL	PLANT ABBR.	BOTANICAL NAME COMMON NAME
SCREENING SHRUBS		
	JV	Juniperus virginiana 'Taylor' TAYLOR JUNIPER
MEDIUM SHRUBS		
	AR	Abella x 'Rose Creek' ROSE CREEK ABELIA
	IV	Ilex vomitoria 'Nana' DWARF YAUPO
ORNAMENTAL GRASSES & GROUNDCOVERS		
	BG	Muhlenbergia capillaris GULF MUHLY
	CT	Carex texensis TEXAS SEDGE



01.19.2023



SCALE: 1"=6'

	CITY RE-SUBMITTAL	SO	01/19/23
	CITY RE-SUBMITTAL	SO	11/14/22
0	CITY SUBMITTAL	SO	03/30/22
NO.	REVISION	BY	DATE

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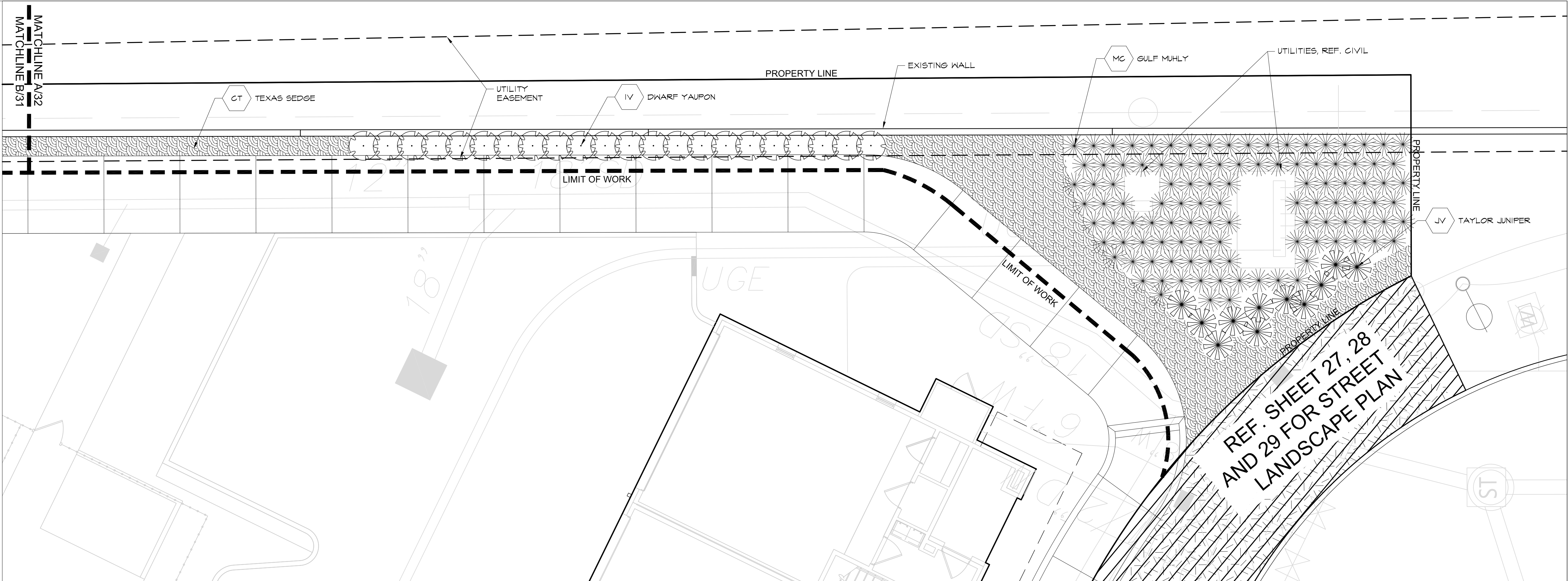
STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

TOWN OF ADDISON, TEXAS

LANDSCAPE PLAN - TRAIL

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
BG	LZ	NOV 14, 2022	AS NOTED		31



Landscape Plan - Trail

A

1" = 6'-0"

SYMBOL	PLANT ABBR.	BOTANICAL NAME COMMON NAME
SCREENING SHRUBS		
	JV	Juniperus virginiana 'Taylor' TAYLOR JUNIPER
MEDIUM SHRUBS		
	AR	Abelia x 'Rose Creek' ROSE CREEK ABELIA
	IV	Ilex vomitoria 'Nana' DWARF YAUPOON
ORNAMENTAL GRASSES & GROUNDCOVERS		
	BG	Muhlenbergia capillaris GULF MUHLY
	CT	Carex texensis TEXAS SEDGE



	CITY RE-SUBMITTAL	SO	01/19/23
	CITY RE-SUBMITTAL	SO	11/14/22
0	CITY SUBMITTAL	SO	03/30/22
NO.	REVISION	BY	DATE

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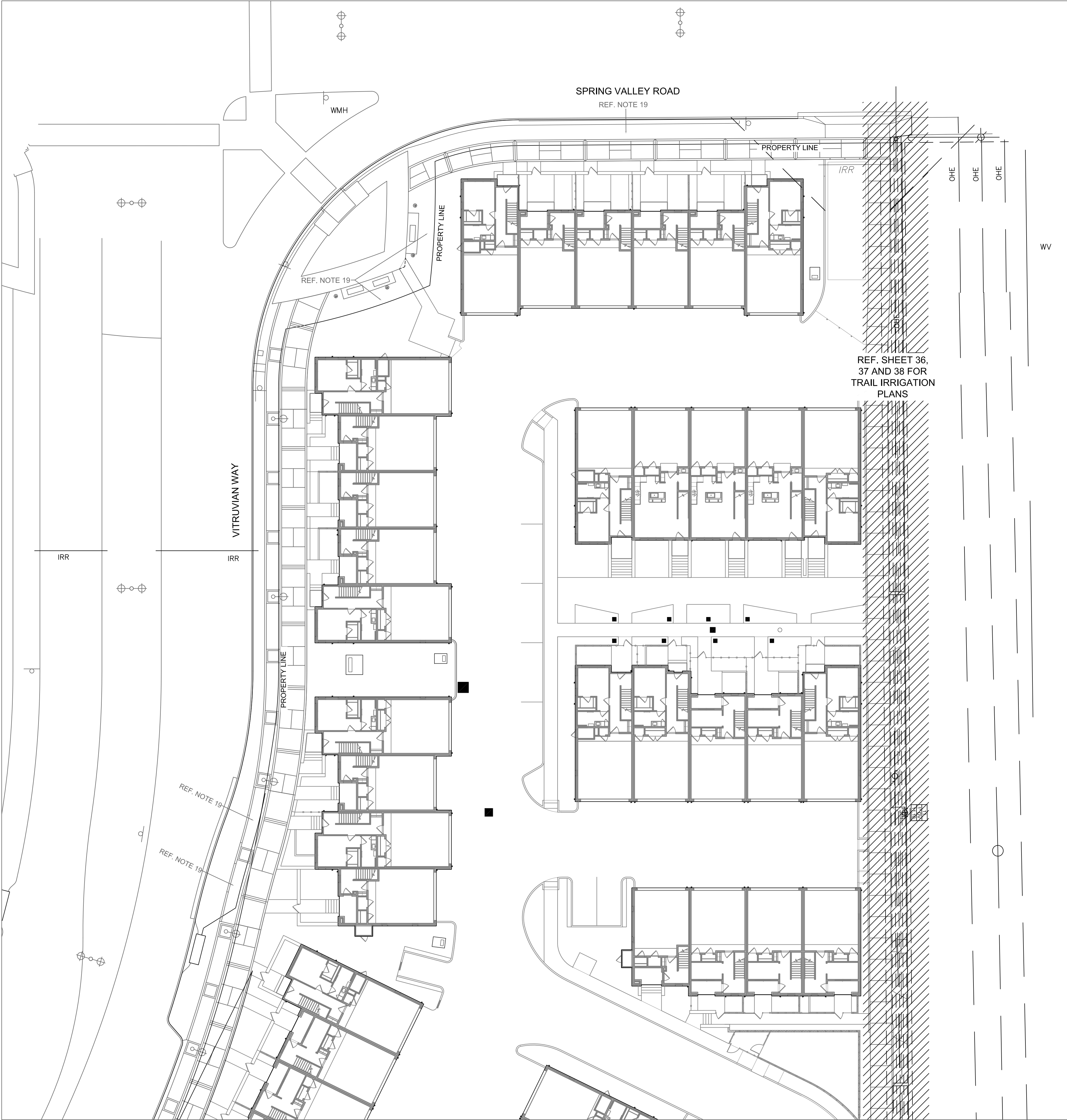
STREETSCAPE & TRAIL IMPROVEMENTS

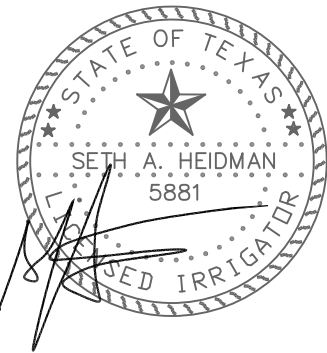
VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

TOWN OF ADDISON, TEXAS


LANDSCAPE PLAN - TRAIL

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
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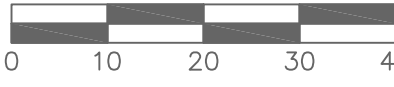




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NORTH



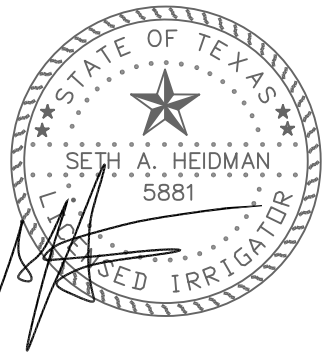
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	CITY RE-SUBMITTAL	SO	11/14/22		
0	CITY SUBMITTAL	SO	03/30/22		
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TOWN OF ADDISON, TEXAS					
IRRIGATION PLAN - NORTH					
DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
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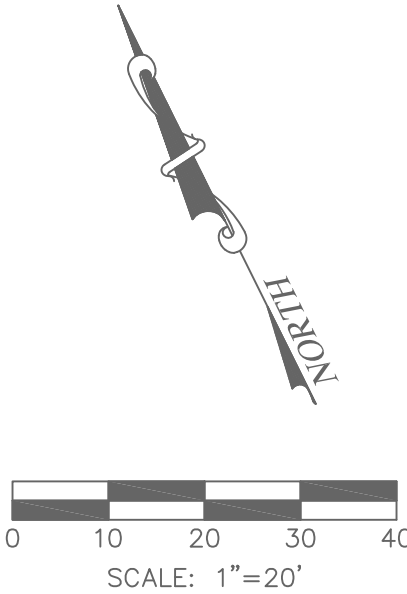


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IRRIGATION DESIGN & CONSULTING, LLC
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STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

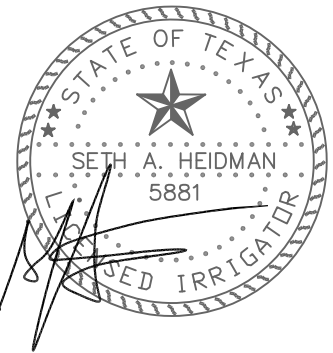
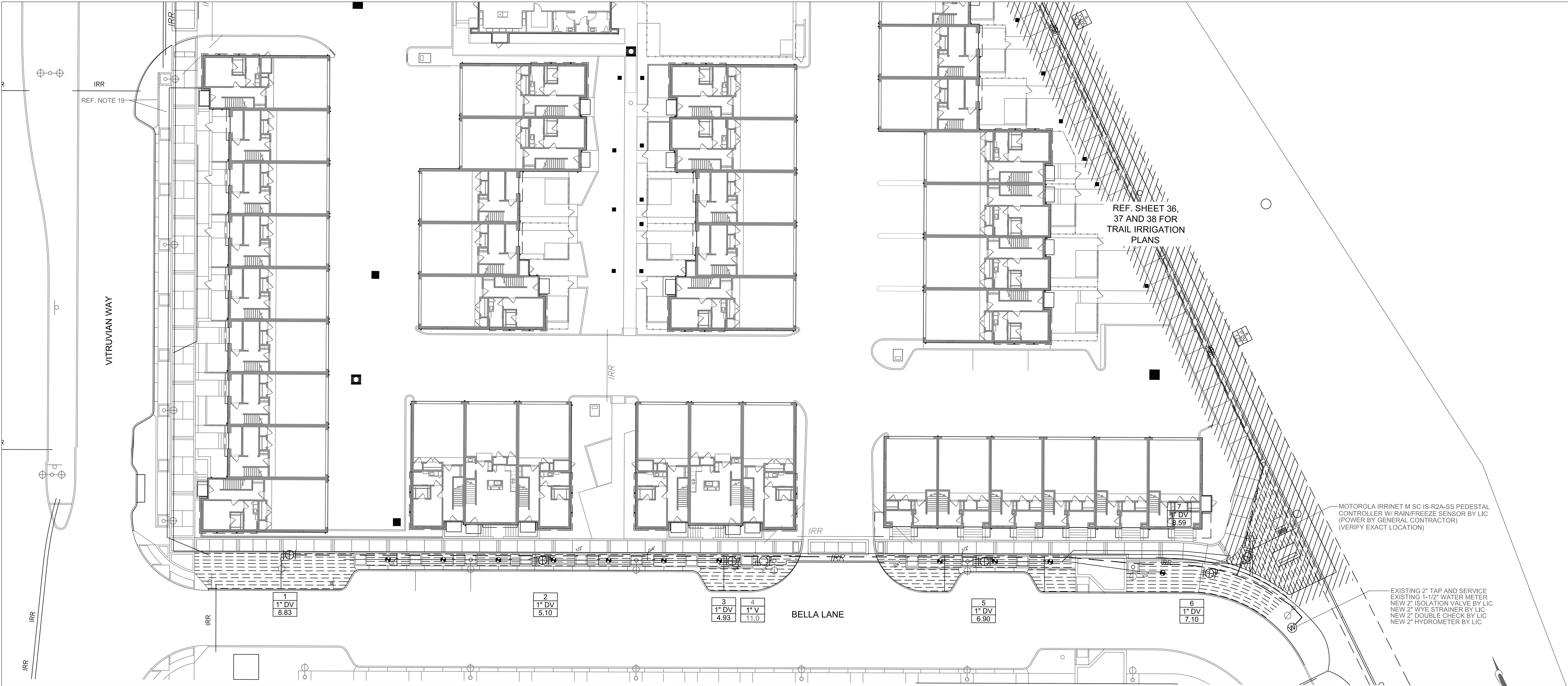
TOWN OF ADDISON, TEXAS

IRRIGATION PLAN - CENTER

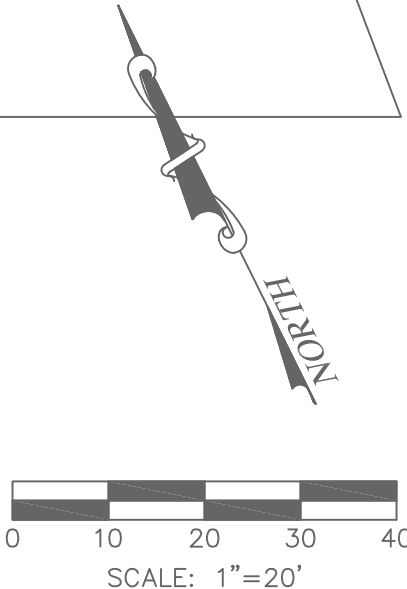
DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
SAH	SAH	NOV 14, 2022	AS NOTED		34

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STREETSCAPE & TRAIL IMPROVEMENTS - VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701 - PROJECT NO. 5029-08



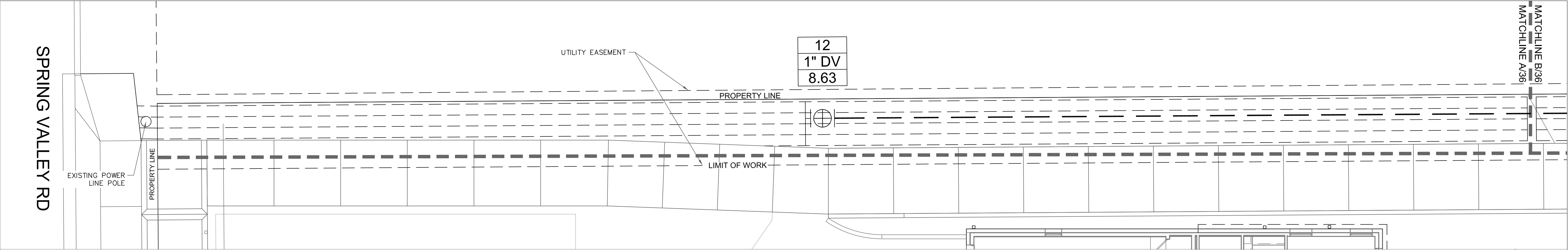
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0 CITY SUBMITTAL	SO	03/30/22
NO.	REVISION	BY DATE

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TOWN OF ADDISON, TEXAS					
IRRIGATION PLAN - SOUTH					
DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
SAH	SAH	NOV 14, 2022	AS NOTED		35

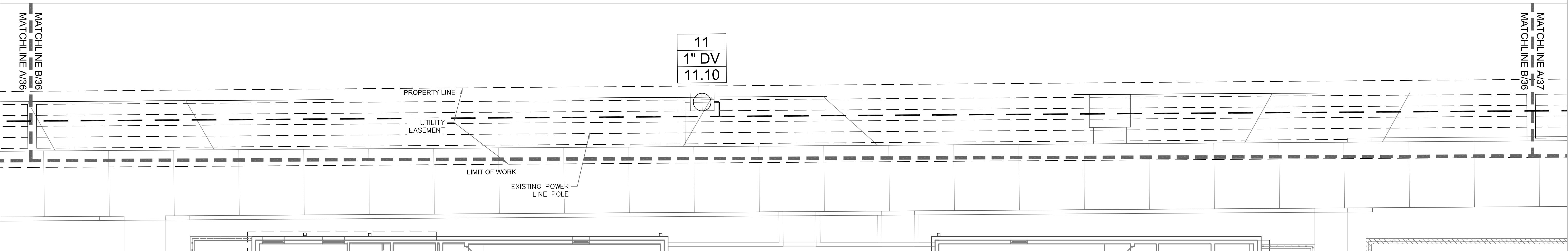
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Irrigation Plan - Trail

A

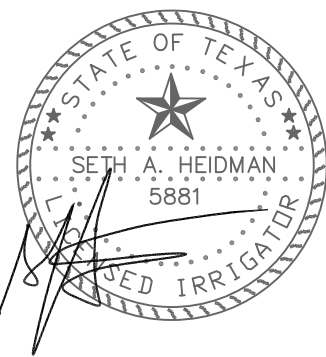
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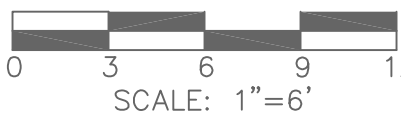
Irrigation Plan - Trail

B

1" = 6'-0"



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SCALE: 1"=6'

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STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

TOWN OF ADDISON, TEXAS

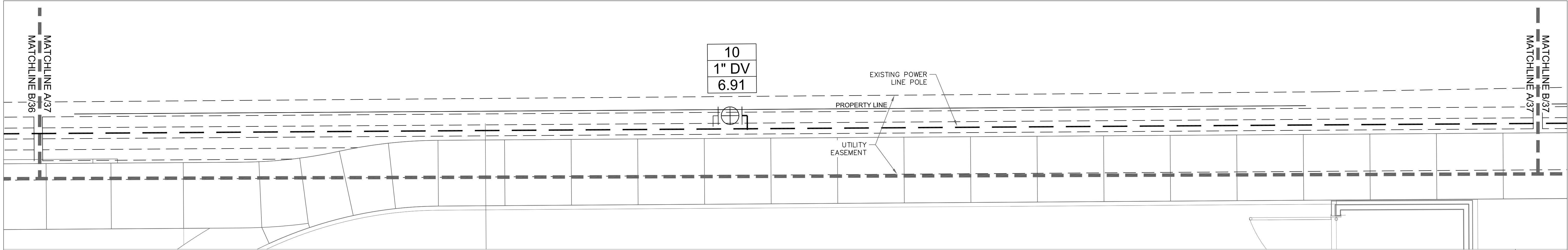
IRRIGATION PLAN - TRAIL

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
SAH	SAH	NOV 14, 2022	AS NOTED		36

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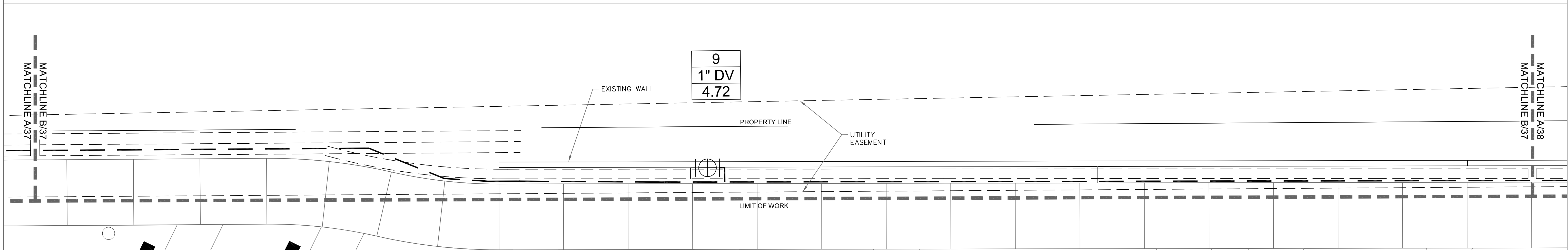
STREETSCAPE & TRAIL IMPROVEMENTS - VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701 - PROJECT NO. 5029-08



Irrigation Plan - Trail

A

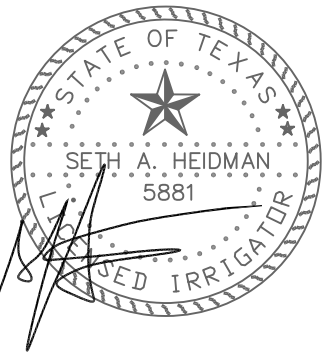
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Irrigation Plan - Trail

B

1" = 6'-0"



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STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

TOWN OF ADDISON, TEXAS

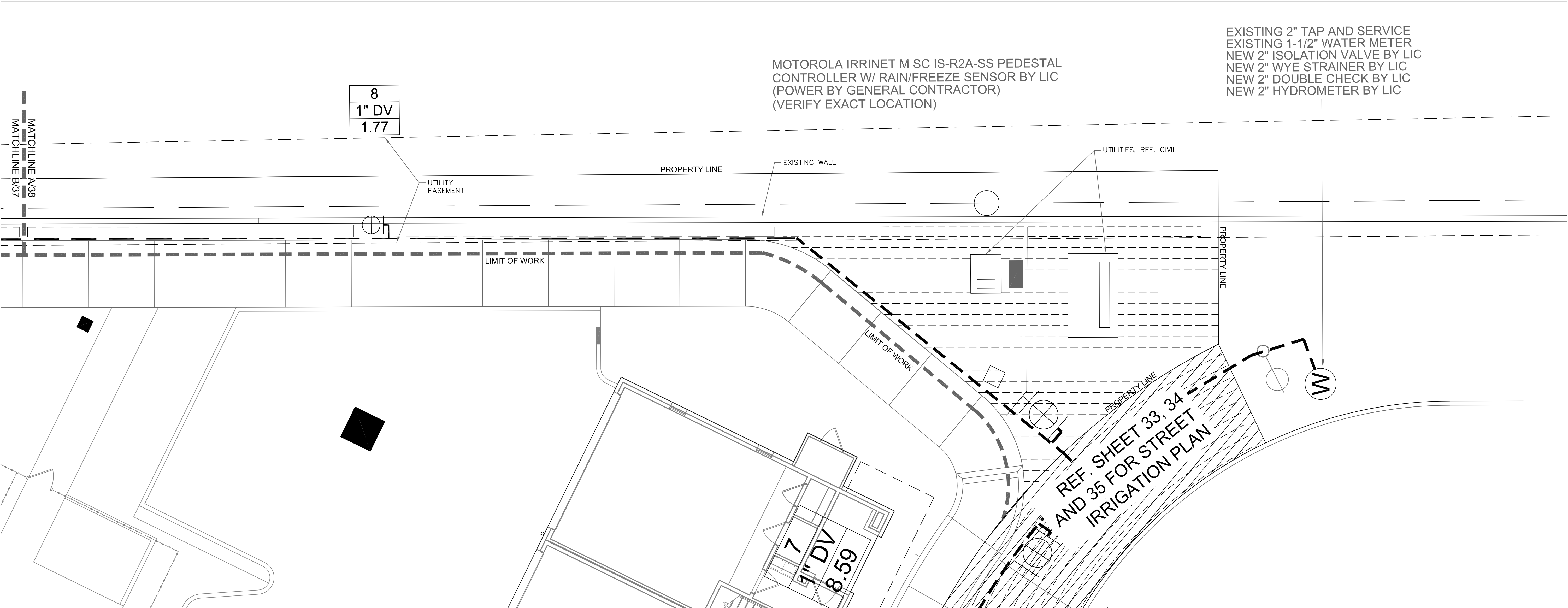
IRRIGATION PLAN - TRAIL

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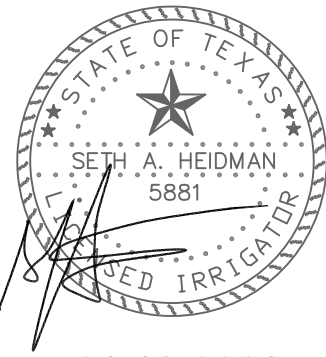
STREETSCAPE & TRAIL IMPROVEMENTS - VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701 - PROJECT NO. 5029-08



Irrigation Plan - Trail

A

1" = 6'-0"



01.19.2023



SCALE: 1"=6'

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STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

TOWN OF ADDISON, TEXAS

IRRIGATION PLAN - TRAIL

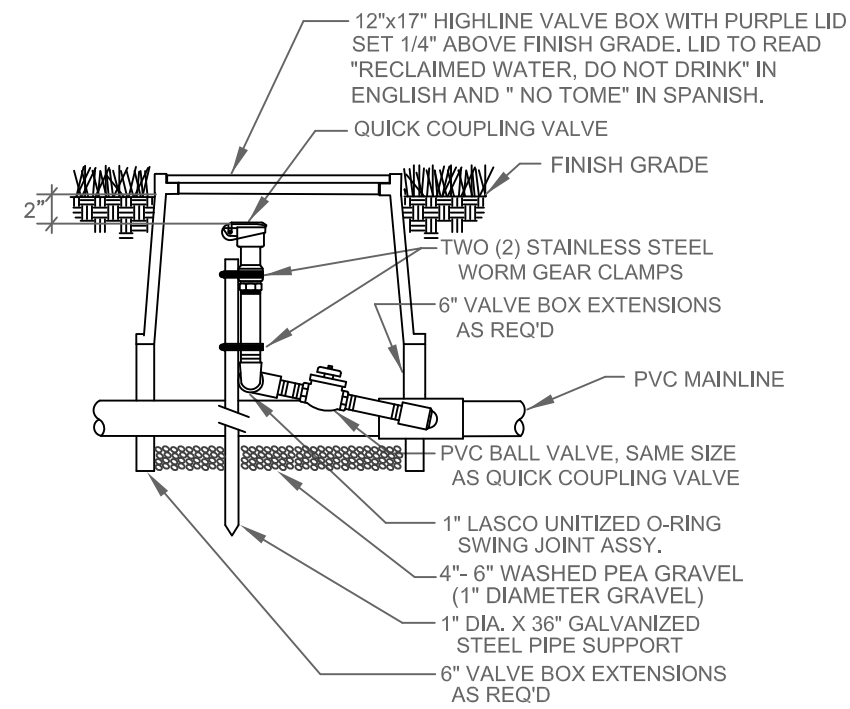
DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
SAH	SAH	NOV 14, 2022	AS NOTED		38

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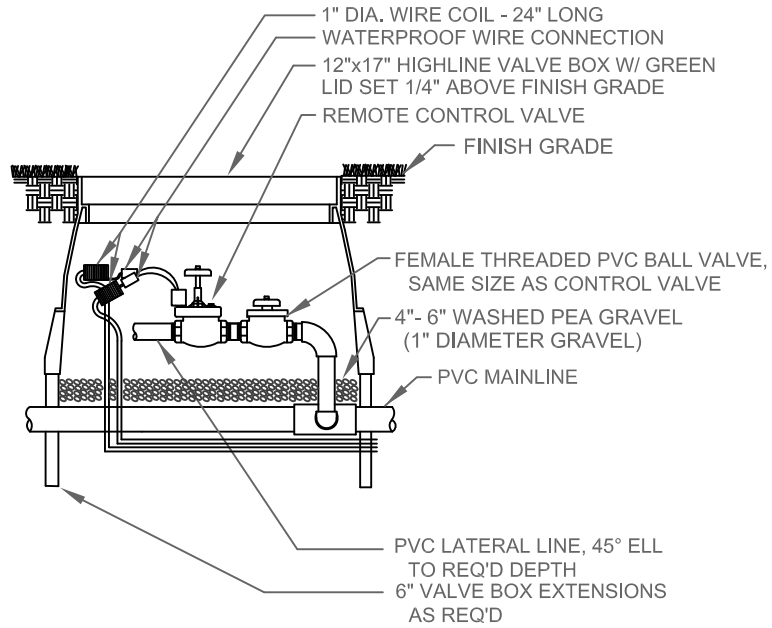
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TOWN PROJECT # 2021-XXX

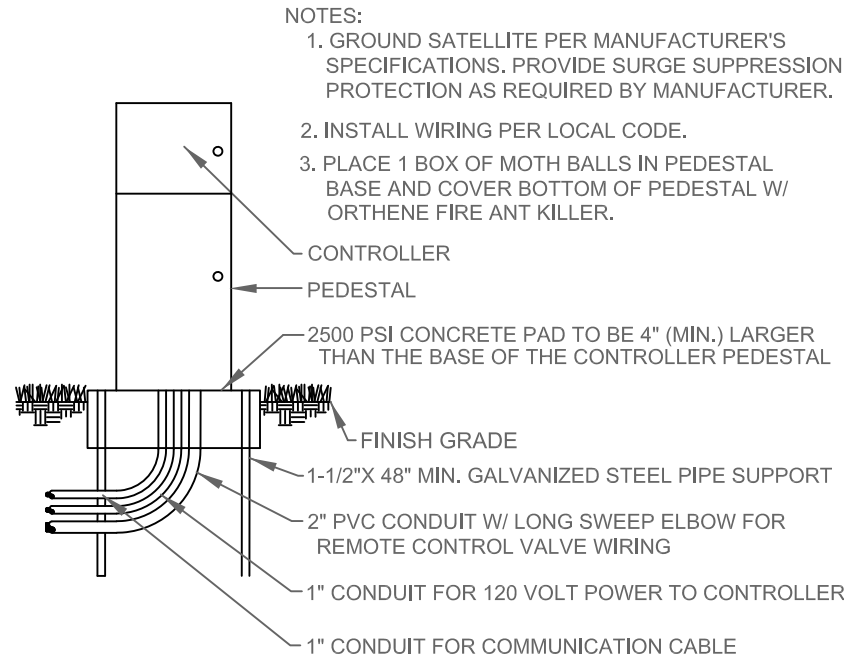
STREETSCAPE & TRAIL IMPROVEMENTS - PHASE 9, BLOCK 701 - PROJECT NO. 5029-08



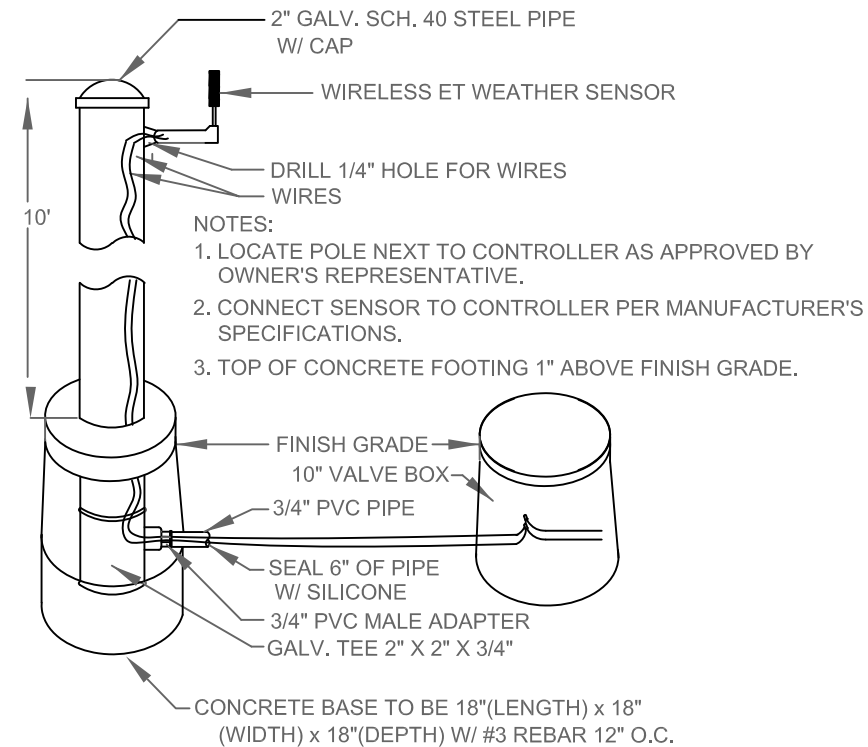
QUICK COUPLING VALVE W/ BALL VALVE
NOT TO SCALE © SHED



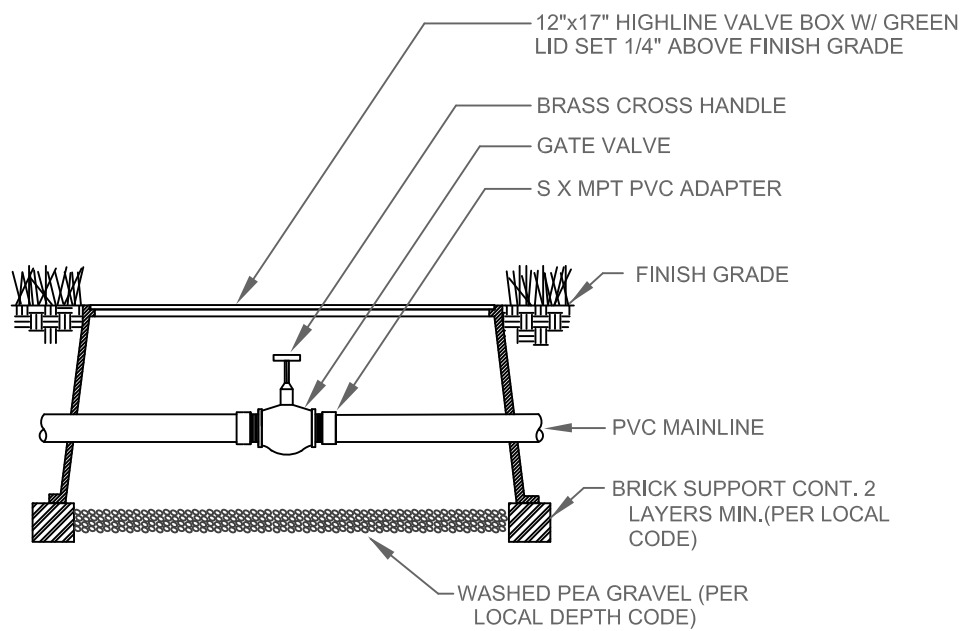
REMOTE CONTROL VALVE W/ BALL VALVE
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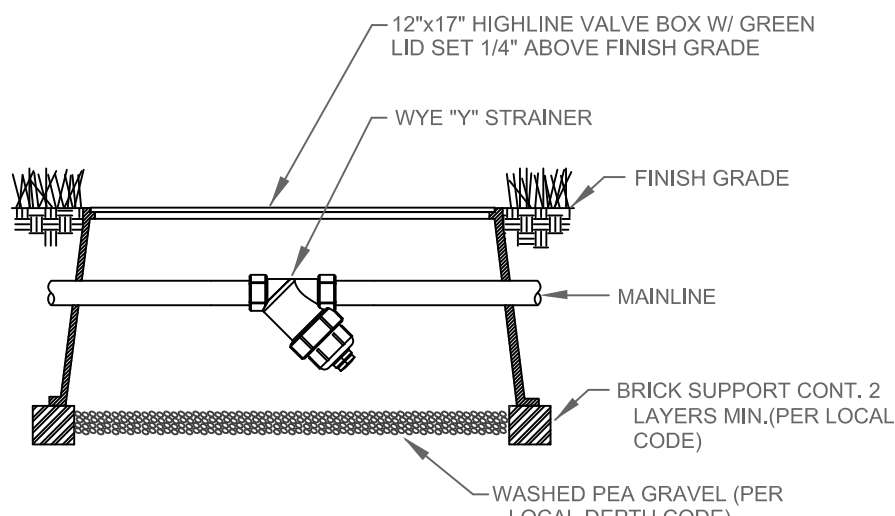
CONTROLLER W/ PEDESTAL
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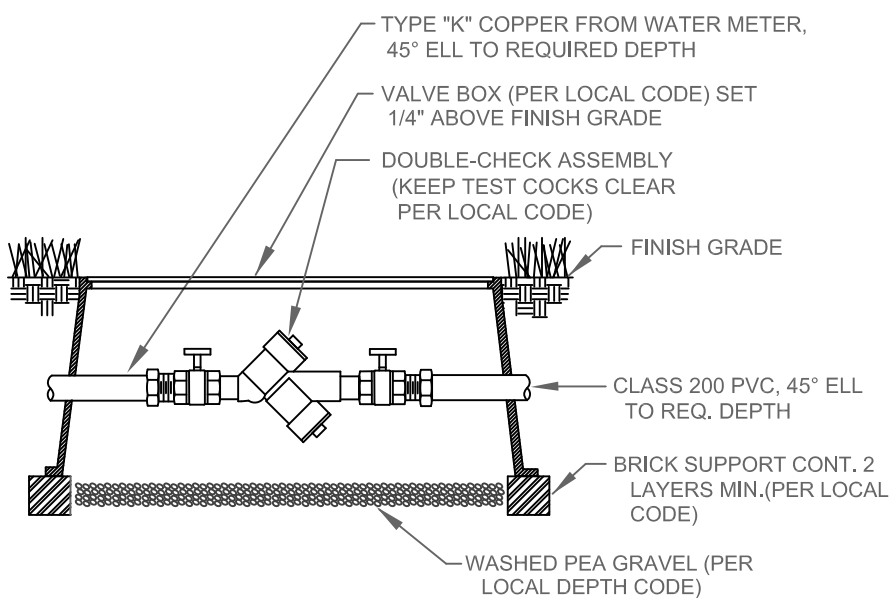
SENSOR POLE
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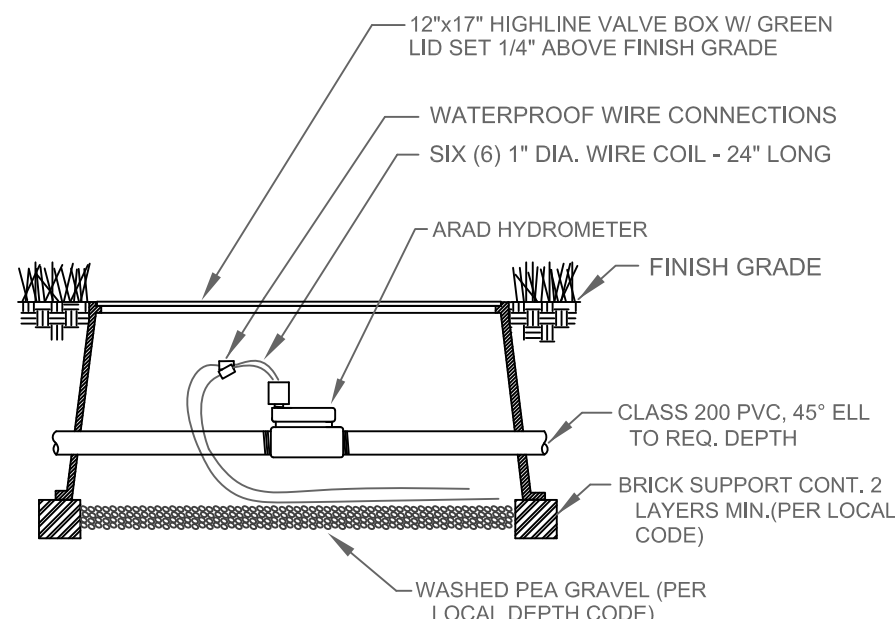
ISOLATION VALVE
NOT TO SCALE © SHED



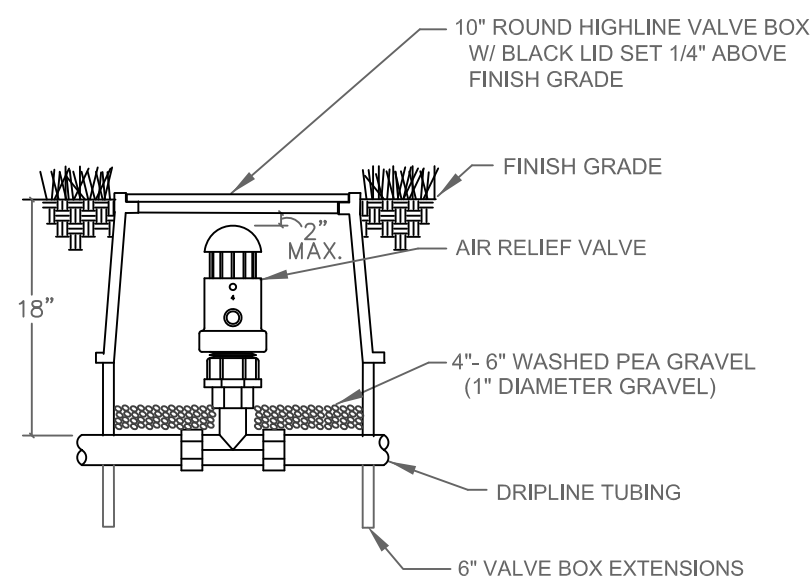
WYE "Y" STRAINER
NOT TO SCALE © SHED



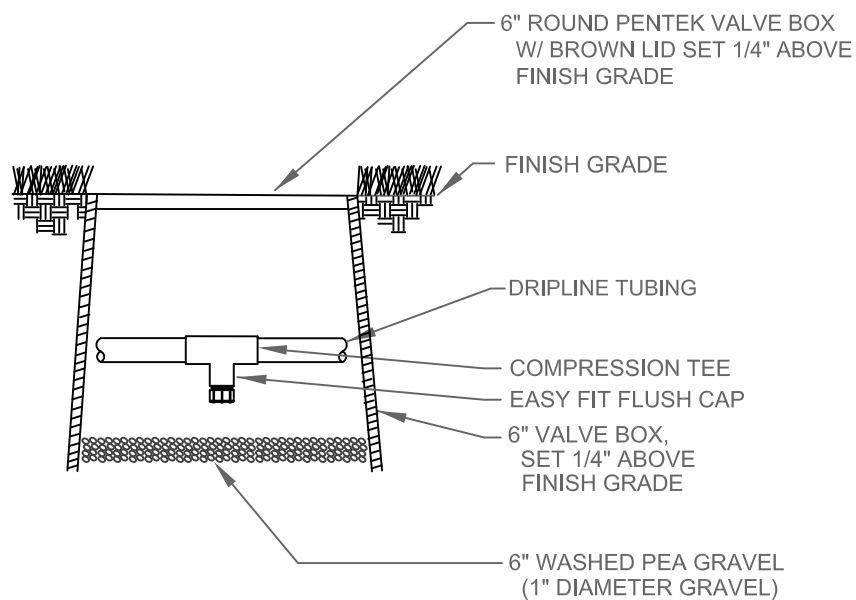
DOUBLE CHECK ASSEMBLY
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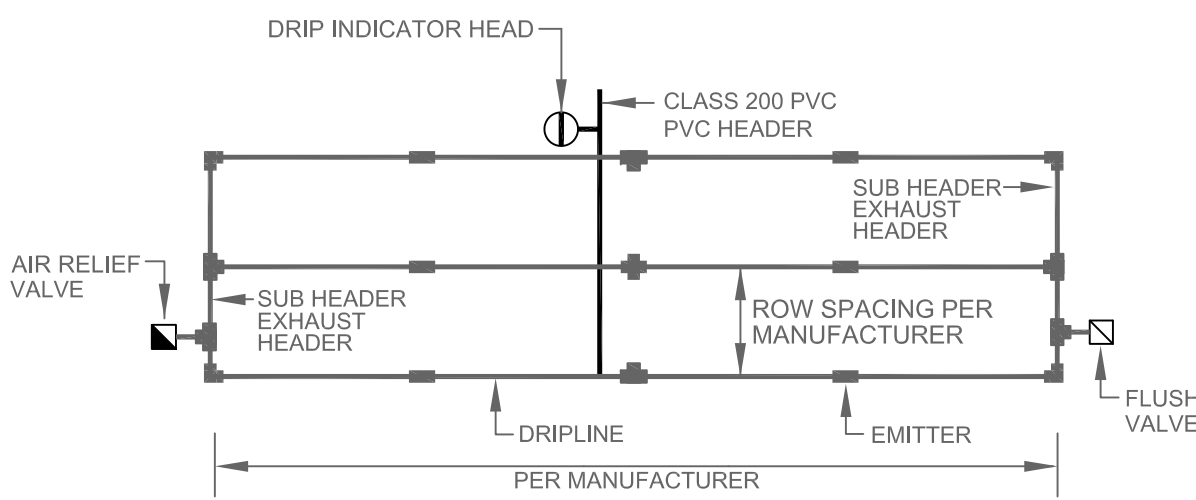
HYDROMETER
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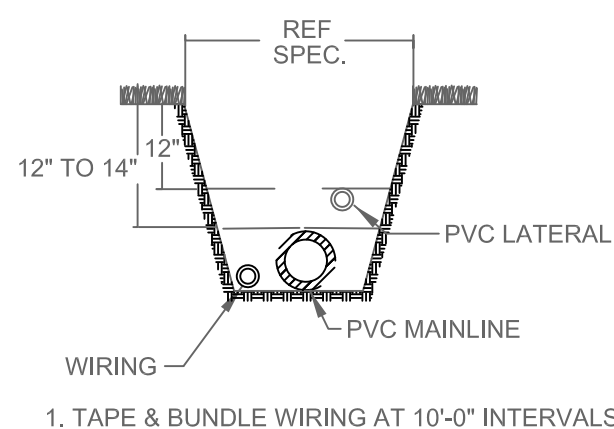
AIR RELIEF VALVE
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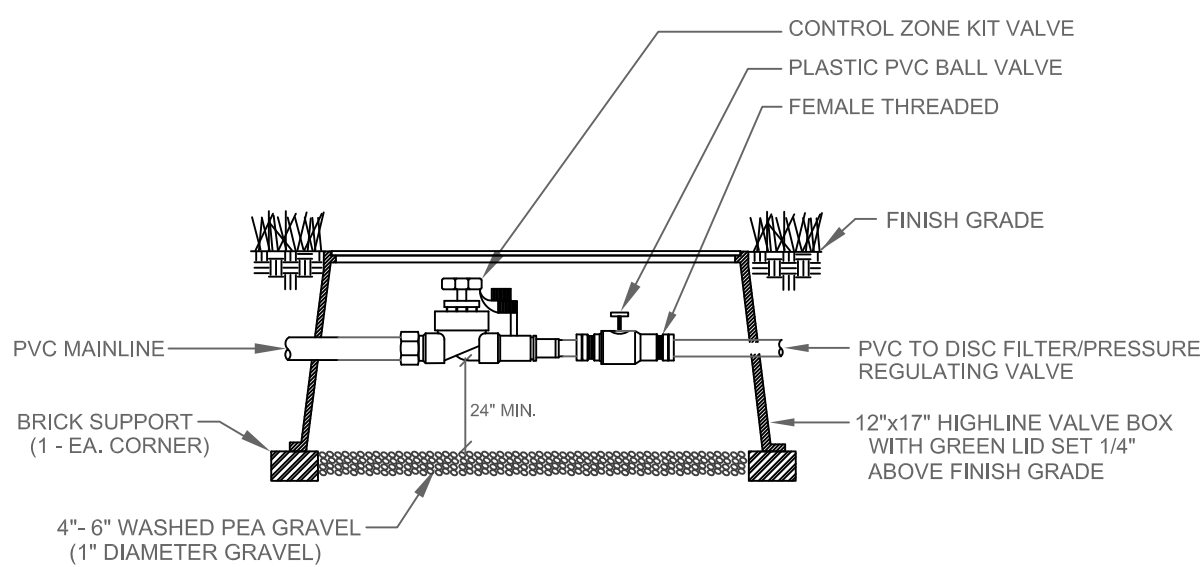
DRIP FLUSH VALVE
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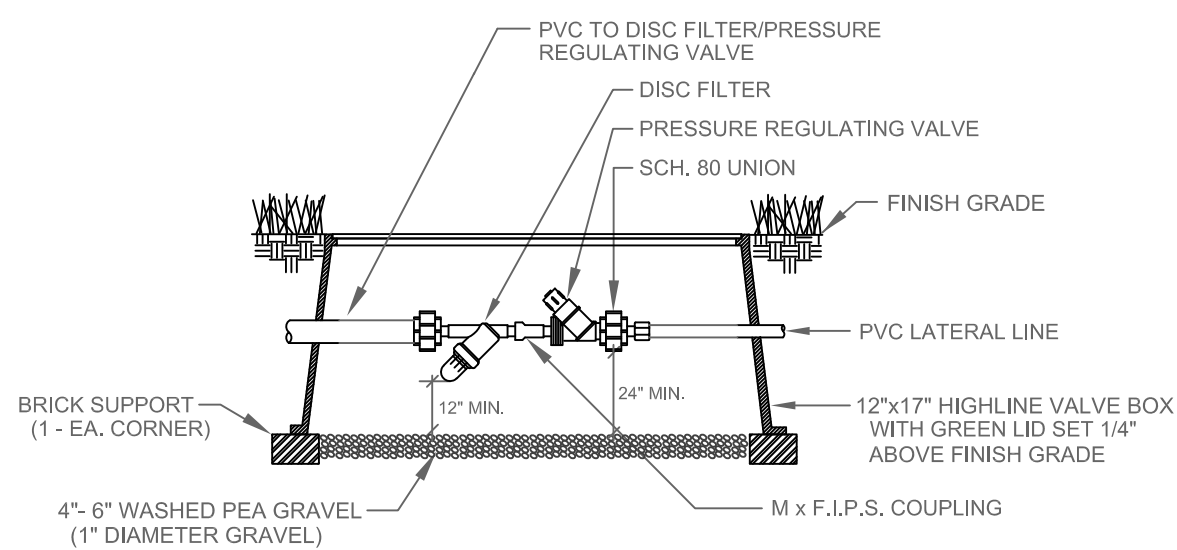
TYPICAL DRIPLINE LAYOUT
NOT TO SCALE © SHED



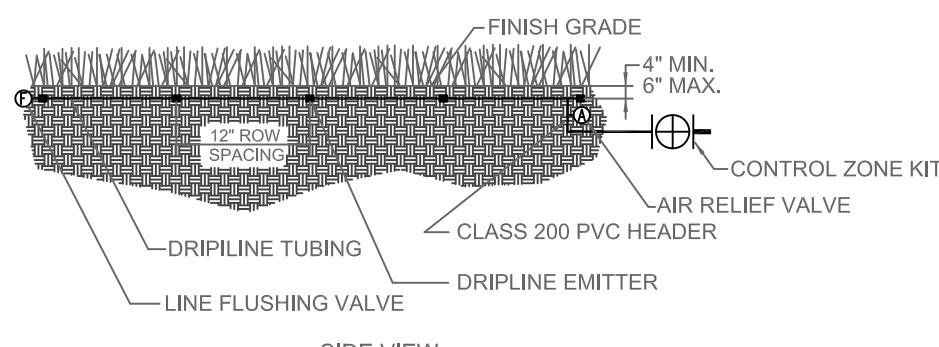
TRENCHING DETAIL
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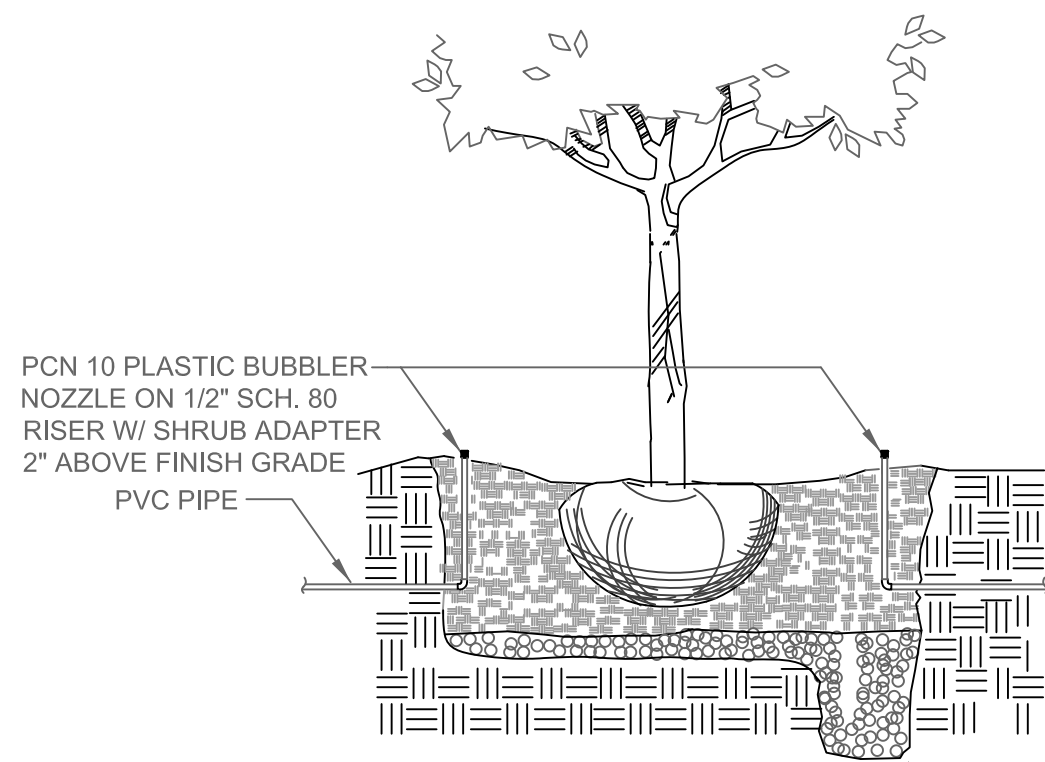
REMOTE CONTROL DRIP ZONE
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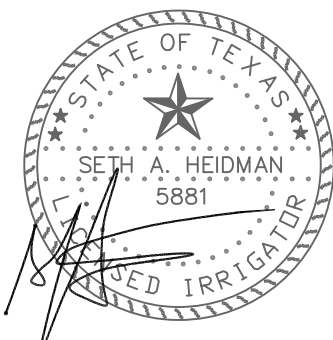
FILTER/ REGULATING VALVE
NOT TO SCALE © SHED



TYPICAL SUBSURFACE DRIPLINE LAYOUT
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TREE BUBBLER
NOT TO SCALE © SHED



01.19.2023

CITY RE-SUBMITTAL	SO	01/19/23
CITY RE-SUBMITTAL	SO	11/14/22
0 CITY SUBMITTAL	SO	03/30/22
NO.	REVISION	BY DATE

studioOutside

824 Exposition Avenue, Ste. 5
Dallas, Texas 75226
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STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

TOWN OF ADDISON, TEXAS

IRRIGATION DETAILS

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
SAH	SAH	NOV 14, 2022	AS NOTED		39

SETH HEIDMAN
IRRIGATION DESIGN & CONSULTING, LLC
1609 W. Parker Rd. #149-231, Plano, Texas 75075 Tel: 972.481.5141
Irrigation in Texas is regulated by the Texas Commission of Environmental Quality (TCEQ), MC-178, P.O. Box 13087, Austin, Texas, 78711-3087.
TCEQ website is: www.tceq.texas.gov

TOWN PROJECT # 2021-XXX

STREETSCAPE & TRAIL IMPROVEMENTS - VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701 - PROJECT NO. 5029-08

NOTES:

1.

ALL STATE OF TEXAS LAWS/RULES AND ALL LOCAL CODES/ORDINANCES ARE MADE PART OF THESE PLANS AND SPECIFICATIONS WHETHER SHOWN OR NOT. THESE LAWS AND ORDINANCES WILL SUPERCEDE THE PLANS, DETAILS, AND/OR SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS CAUTIONED THAT HE IS TO INCLUDE ANY AND ALL COST NECESSARY TO MEET OR EXCEED THE LAWS OF THE STATE OF TEXAS OR LOCAL CODES CONCERNING LANDSCAPE IRRIGATION.
2.

ALL 24 VOLT LEAD AND COMMON VALVE WIRING SHALL BE A MINIMUM OF UF-14 GA. SINGLE CONDUCTOR. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR PROPER WIRE SIZE. CONNECTORS SHALL BE 3M-DBY PERMANENT AND WATERPROOF FOR ALL FIELD WIRE SPLICES ONLY. CONNECTORS SHALL BE KING ONE STEP TAN PERMANENT AND WATERPROOF FOR ALL STATION VALVES ONLY.
3.

COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH LANDSCAPE CONTRACTOR TO ENSURE ALL PLANT MATERIAL WILL BE WATERED IN ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS. DO NOT INSTALL THE LANDSCAPE UNTIL THE AUTOMATIC IRRIGATION SYSTEM IS FULLY OPERATIONAL PER TOA.
4.

PIPING AND VALVES IN PAVING SHOWN FOR CLARITY, INSTALL IN ADJACENT PLANTING BED OR LAWN AREA.
5.

LATERAL PIPING SHALL HAVE A MINIMUM OF 12" OF COVER. MAINLINE AND PIPING UNDER PAVING SHALL HAVE A MINIMUM OF 12" AND A MAXIMUM OF 14" OF COVER. ALL FITTINGS TO BE SCHEDULE 40 PVC. USE TURFTITE SOLVENT WELD FLEXIBLE PIPE GLUE AND WELD ON #P-68 PRIMER ON THESE CONNECTIONS PER THE SPECIFICATIONS.
6.

ALL MAINLINE TO BE 2-1/2" CLASS 200 PVC. SIZE ALL LATERAL PIPING PER MANUFACTURER'S RECOMMENDATIONS OF NOT EXCEEDING 5 FPS. REFERENCE PIPE SIZE CHART. NO 1/2" PIPE ALLOWED
7.

CONNECT DRIP INDICATOR HEADS AND TREE BUBBLERS TO LATERAL PIPING WITH 1/2" TORO FUNNY PIPE WITH TORO BARBED FITTINGS AS REQUIRED.
8.

INSTALL QUICK COUPLING VALVES IN TWELVE BY SEVENTEEN (12"x17") INCH HIGHLINE VALVE BOX. CONNECT QUICK COUPLING VALVES TO MAINLINE PIPE WITH LASCO "UNITIZED", #T722-212 O-RING SWING JOINTS. SUPPLY OWNER WITH THREE (3) COUPLER KEYS WITH SWIVEL HOSE BIBB EACH, #33DK-10 AND #SH-0 RESPECTIVELY. VALVES TO BE INSTALLED SO THAT TOP OF QUICK COUPLER IS 2" BELOW BOTTOM OF VALVE BOX TOP. PURPLE LID READS "NON-POTABLE, NOT SAFE FOR DRINKING" IN ENGLISH AND SPANISH. INSTALL EVERY 150'-0" ON CENTER ALONG ENTIRE LENGTH OF MAINLINE.
9.

INSTALL REMOTE CONTROL VALVES WITH FEMALE THREADED PLASTIC LASCO OR SPEARS BALL VALVE AND WIRE SPLICES IN TEN (10") INCH ROUND HIGHLINE VALVE BOXES.
10.

DESIGN PRESSURE IS 62.0 PSI. STATIC PRESSURE IS 70 PSI. TEN DAYS PRIOR TO START OF CONSTRUCTION, VERIFY STATIC PRESSURE. IF STATIC PRESSURE IS LESS THAN STATED DO NOT START WORK UNTIL NOTIFIED TO PROCEED BY OWNER.
11.

MINIMUM DISTANCE BETWEEN MAIN LINE AND LATERAL LINE FITTINGS (EXCEPT FOR REDUCER BUSHINGS) TO BE EIGHTEEN (18") INCHES AND MINIMUM HORIZONTAL DISTANCE OF TWENTY-FOUR (24") INCHES BETWEEN ANY VALVES THAT ARE INSTALLED SIDE BY SIDE.
12.

INSTALL REMOTE CONTROL DRIP VALVE AND PLASTIC PVC BALL VALVE IN TWELVE BY SEVENTEEN (12"x17") INCH HIGHLINE VALVE BOX AND DISC FILTER WITH PRESSURE REGULATING VALVE IN SECOND TWELVE BY SEVENTEEN (12"x17") INCH HIGHLINE VALVE BOX.
13.

INSTALL DRIPLINE MINIMUM OF 2" AND A MAXIMUM OF 4" FROM HARDSCAPE SURFACES. STAKE DRIPLINE AND RECEIVE APPROVAL FROM OWNER'S REPRESENTATIVE BEFORE INSTALLATION. DO NOT EXCEED MANUFACTURER'S RECOMMENDATIONS OF 5'-0" PER SECOND IN DRIPLINE.
14.

INSTALL DISTRIBUTION TUBING, STAKES, EMITTERS, TRANSFER FITTINGS, DIFFUSER BUG CAP, CONTROL ZONE KITS, ETC. NECESSARY FOR PROPER INSTALLATION OF THE BEDS. ALL PVC HEADER PIPING TO BE CLASS 200 PVC SOLVENT WELD PIPE. INSERT ALL RAINBIRD XF DRIPLINE INSERT FITTINGS PER MANUFACTURER'S RECOMMENDATIONS. INSTALL ONE DRIP INDICATOR HEAD FOR EACH DRIP ZONE. INDICATOR HEAD TO BE A TORO 12" HIGH-POP-UP SPRAY WITH NOZZLE TURNED TO OFF POSITION.
15.

AIR RELIEF VALVE TO BE NETAFIM 1/2" AIR RELIEF VALVE INSTALLED IN A TEN-INCH (10") HIGHLINE ROUND VALVE BOX WITH BLACK LID AND 6" OF GRAVEL SUMP. FLUSH VALVES TO BE NETAFIM AUTOMATIC FLUSH VALVE INSTALLED IN A TEN-INCH (10") HIGHLINE ROUND VALVE BOX WITH BLACK LID AND 6" OF GRAVEL SUMP. INCLUDE THE FOLLOWING ALLOWANCES FOR PROVIDING AND INSTALLING AIR RELIEF VALVES AND FLUSH VALVES FOR THE DRIP SYSTEM. EXACT QUANTITY AND LOCATION OF THESE DEVICES WILL BE DETERMINED AT THE TIME OF INSTALLATION. IN GENERAL, ALL AIR RELIEF VALVES WILL BE INSTALLED AT THE HIGH POINTS AND FLUSH VALVES WILL BE INSTALLED AT THE LOW POINTS OF EXHAUST HEADER. ALLOW FOR APPROXIMATELY ONE (1) AIR RELIEF VALVE AND APPROXIMATELY ONE (1) FLUSH VALVE FOR EACH DRIP ZONE KIT.
16.

ALL PLANTING BED XFD DRIPLINE AND DISTRIBUTION TUBING TO BE INSTALLED AT GRADE BELOW MULCH LAYER PER MANUFACTURER'S RECOMMENDATIONS. ALL DRIPLINE TO BE INSTALLED 12" ON CENTER ROW SPACING UNLESS INSTRUCTED OTHERWISE. L.I.C. IS RESPONSIBLE TO VERIFY THE EXACT EMITTER FLOW, EMITTER SPACING, AND ROW SPACING WITH MANUFACTURER PRIOR TO INSTALLING TO PROVIDE PROPER PRECIPITATION RATE BASED ON PLANT MATERIAL AND SOIL TYPE. TUBING TO BE STAKED WITH HEAVY DUTY JUTE NETTING PINS FROM DALLAS BAG AND BURLAP OR APPROVED EQUAL. INSTALL STAKES EVERY 3'-0" ALONG ENTIRE LENGTH OF TUBING AND A MINIMUM OF 24" FROM ANY FITTINGS.
17.

WHERE POSSIBLE LOCATE ALL MAINLINES, VALVES, OR CONTROL WIRES SHALL BE LOCATED AND INSTALLED OUTSIDE RIGHT-OF-WAY.
18.






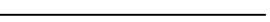



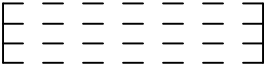






PROVIDE ALL LABOR AND MATERIAL NECESSARY TO HAND DIG WITHIN ALL EXISTING TREE ROOT ZONES. CONTRACTOR MUST STAKE DITCHES AND RECEIVE APPROVAL FROM LANDSCAPE ARCHITECT PRIOR TO ANY TRENCHING OR DIGGING.
19.

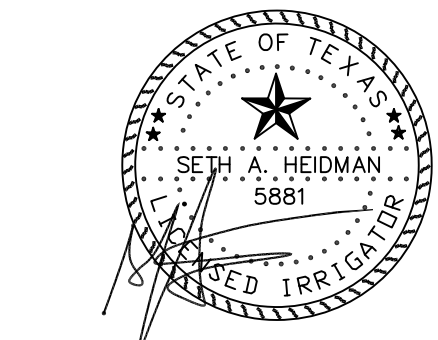
PROVIDE ALL LABOR AND MATERIAL NECESSARY TO REPAIR AND MODIFY THE EXISTING IRRIGATION SYSTEM IN THIS AREAS SO THAT IT IS 100% OPERABLE AND AUTOMATED UPON COMPLETION OF THE PROJECT. THIS WORK TO INCLUDE BUT NOT LIMITED TO CUTTING AND CAPPING, ADJUSTING, BLENDING, ADDING COMPONENTS TO ACHIEVE THIS WORK. REVIEW THE EXISTING IRRIGATION PLANS FOR ANY QUESTIONS REGARDING THE EXISTING IRRIGATION. CONTRACTOR MUST COORDINATE THIS WORK WITH ALL DISCIPLINES PRIOR TO BIDDING AND INSTALLATION.
20.

A LICENSED IRRIGATOR OR LICENSED IRRIGATION TECHNICIAN SHALL BE ON-SITE AT ALL TIMES WHILE THE LANDSCAPE IRRIGATION SYSTEM IS BEING INSTALLED PER CITY OF ADDISON REQUIREMENTS.
21.

IT IS THE INTENT OF THESE PLANS TO PROVIDE THE OWNER WITH A FULLY AUTOMATED AND OPERATIONAL IRRIGATION SYSTEM UPON COMPLETION OF THE PROJECT. CONTRACTOR MUST READ AND FOLLOW THE TOWN OF ADDISON IRRIGATION SPECIFICATIONS 06/14/19 FOR THIS PROJECT.

IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
	(2) BUBBLER HEADS	HUNTER (30 PSI)	PCN-10 (1 GPM) NOZZLE ON 1/2" SCH. 80 RISER WITH SHRUB ADAPTER
	QUICK COUPLING VALVE	RAINBIRD	#33-DNP WITH LASCO BALL VALVE, PURPLE LID READS "RECLAIMED WATER, DO NOT DRINK" IN ENGLISH AND "NO TOME" IN SPANISH.
	NEW CONTROLLER	MOTOROLA	IRRINET M AC IS-R2A-RU-SS PEDESTAL W/ PHONE DROP, AND RAIN/FREEZE SENSOR
	REMOTE CONTROL VALVE	WEATHERMATIC	#11000 SERIES WITH BALL VALVE, REFER TO PLANS FOR SIZE
	MAINLINE PIPING	REFER TO SPEC.	2-1/2" CLASS 200 BELLED PVC
	LATERAL PIPING	REFER TO SPEC.	3/4" & LARGER - CLASS 200 PVC
	EXISTING SLEEVES	SCHEDULE 40 PVC	REF REFERENCE ORIGINAL DESIGN
	REMOTE CONTROL DRIP VALVE	WEATHERMATIC	#11000 SERIES WITH PRESSURE REDUCER AND WYE STRAINER, REFER TO PLAN FOR SIZE
	DRIP HEADER PIPING	REFER TO SPEC.	CLASS 200 PVC UNLESS OTHERWISE NOTED
	PLANTING BED DRIPLINE TUBING	NETAFIM	XFD-06-12 AT 12" ROW SPACING W/ 17MM BARBED FITTINGS, GALVANIZED TUBING STAKES, AND DRIP INDICATOR HEAD
	EXISTING WATER METER	REFER TO SPEC.	PER LOCAL BUILDING CODE
	NEW ISOLATION VALVE	NIBCO	T-29, REFER TO PLAN FOR SIZE
	NEW WYE STRAINER	FEBCO	650, REFER TO PLAN FOR SIZE
	NEW DCVA BACKFLOW PREVENTER	FEBCO	850, REFER TO PLAN FOR SIZE
	NEW HYDROMETER	MOTOROLA	ARAD HYDROMETER, REFER TO PLAN FOR SIZE
	STATION NUMBER VALVE SIZE GPM (APPROX.)		



	CITY RE-SUBMITTAL	SO	01/19/23		
	CITY RE-SUBMITTAL	SO	11/14/22		
0	CITY SUBMITTAL	SO	03/30/22		
NO.	REVISION	BY	DATE		
824 Exposition Avenue, Ste. 5 Dallas, Texas 75226 o214.954.7160 t214.954.7162					
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TOWN OF ADDISON, TEXAS					
IRRIGATION NOTES AND LEGEND					
DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
SAH	SAH	NOV 14, 2022	AS NOTED		40

SETH HEIDMAN

IRRIGATION DESIGN & CONSULTING, LLC

10009 W. Parker Rd. #1407-221, Plano, Texas 75093 Tel: 972.461.6141

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