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

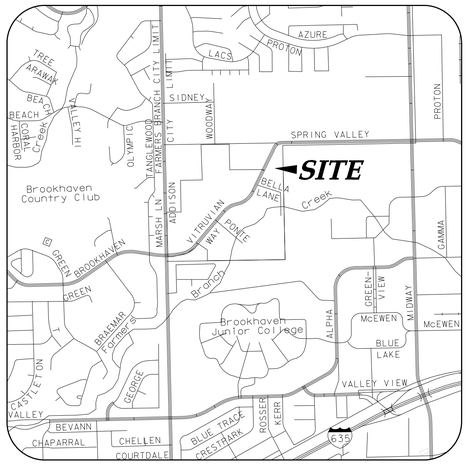
TOWN BID # 23-51

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)

SHEET INDEX

1	1	COVER SHEET
2	PP1	PRELIMINARY PLAT 1 OF 2
3	PP2	PRELIMINARY PLAT 2 OF 2
4	2	OVERALL LAYOUT & PROJECT CONTROL
5	3A	GENERAL CONSTRUCTION NOTES, LEGEND & ABBREVIATIONS
6	3B	GENERAL CONSTRUCTION NOTES - TOWN OF ADDISON
7	4	EROSION & SEDIMENT CONTROL PLAN
8	5	EROSION & SEDIMENT CONTROL DETAILS
9	6	DEMOLITION PLAN - SOUTH
10	7	DEMOLITION PLAN - CENTER
11	8	DEMOLITION PLAN - NORTH
12	9	LAYOUT & GRADING PLAN - SOUTH
13	10	LAYOUT & GRADING PLAN - CENTER
14	11	LAYOUT & GRADING PLAN - NORTH
15	12	PAVING & GRADING NOTES & DETAILS
16	13	STREETSCAPE PAVING DETAILS - BELLA LANE
17	14	STREETSCAPE PAVING DETAILS - BELLA LANE
18	15	STREETSCAPE PAVING DETAILS - VITRUVIAN WAY
19	16	STREETSCAPE PAVING DETAILS - SPRING VALLEY ROAD
20	17	STREETSCAPE PAVING DETAILS
21	18	STREET LIGHT & CONDUIT PLAN - BELLA LANE
22	19	STREET LIGHT & CONDUIT PLAN - VITRUVIAN WAY
23	20	STREET LIGHT DETAILS
24	21	HOLIDAY LIGHT & CONDUIT PLAN
25	22	HOLIDAY LIGHT DETAILS
26	23	ELECTRICAL DETAILS – CONDUIT ED(1)-03
27	24	ELECTRICAL DETAILS – CONDUCTORS ED(2)-03
28	25	ELECTRICAL DETAILS – GROUND BOXES ED(3)-03
29	26	LANDSCAPE LEGEND & DETAILS
30	27	LANDSCAPE PLAN - NORTH
31	28	LANDSCAPE PLAN - CENTER
32	29	LANDSCAPE PLAN - SOUTH
33	30	LANDSCAPE PLAN TRAIL - NORTH
34	31	LANDSCAPE PLAN TRAIL - CENTER
35	32	LANDSCAPE PLAN TRAIL - SOUTH
36	33	IRRIGATION PLAN - NORTH
37	34	IRRIGATION PLAN - CENTER
38	35	IRRIGATION PLAN - SOUTH
39	36	IRRIGATION PLAN TRAIL - NORTH
40	37	IRRIGATION PLAN TRAIL - CENTER
41	38	IRRIGATION PLAN TRAIL - SOUTH
42	39	IRRIGATION DETAILS
43	40	IRRIGATION NOTES & LEGEND

CIVIL ENGINEER:
ICON CONSULTING ENGINEERS, INC.
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

APRIL 04, 2023

STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED PROFESSIONAL ENGINEER
04/04/23

PROJECT NO. 5029-08

NO.	REVISION	BY	DATE

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

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

VICINITY MAP
NOT TO SCALE

NOTES

1. The bearings shown hereon are oriented to Grid North, Texas State Plane Coordinate System, NAD83 Texas North Central Zone (4202) (2011).
2. Property is Zoned Planned Development (PD) through Ordinance No. O07-034 as amended by Ordinance No. O16-017.
3. 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.
4. Development standards of this plat shall comply with Zoning Ord. 66 as amended.
5. 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.
6. Existing structures to be removed. New Structures proposed.
7. The purpose of this plat is to create a multifamily development.
8. 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. / P.O.C.	POINT OF BEGINNING / POINT OF COMMENCING

1" = 30'

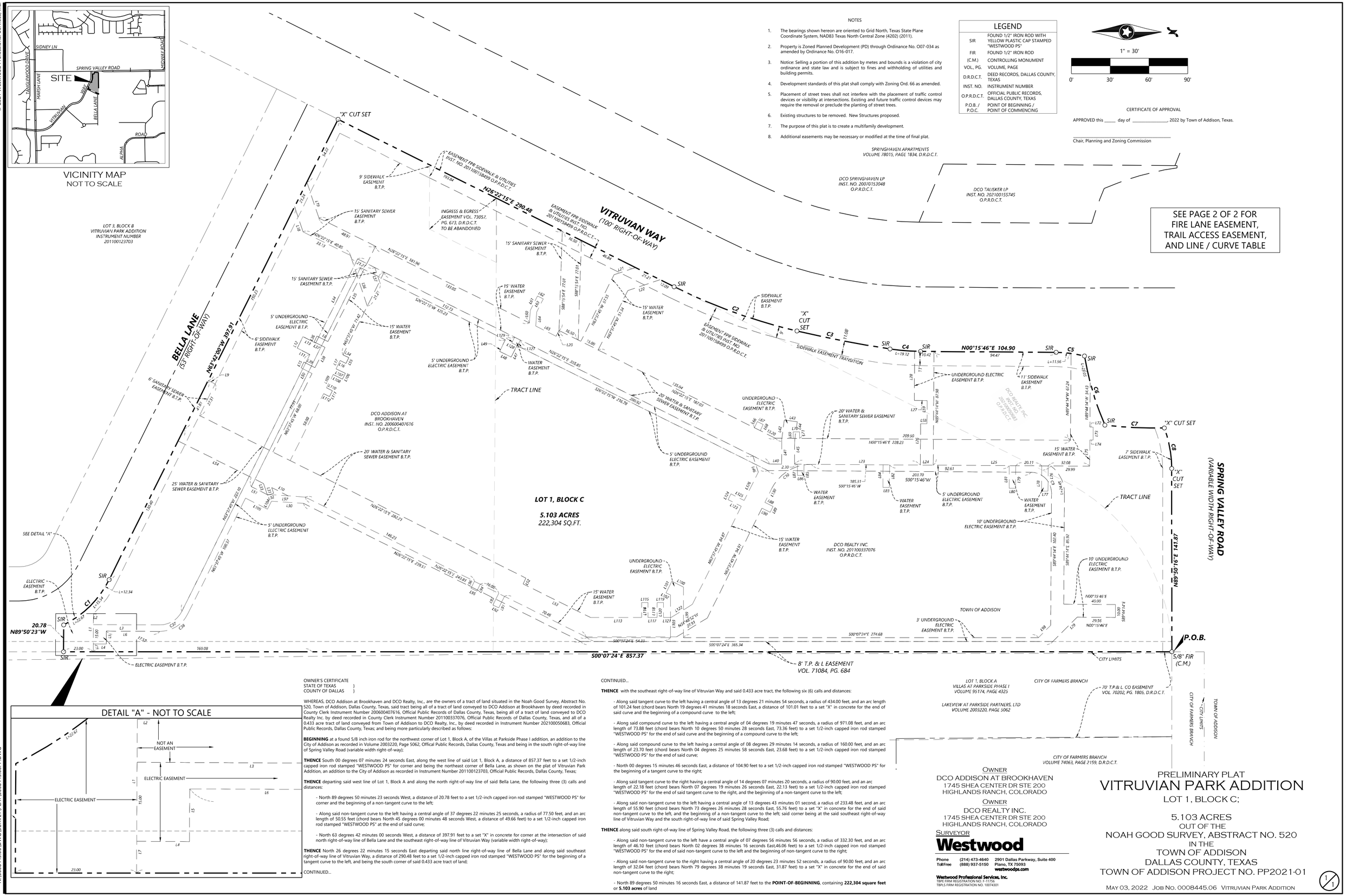
0' 30' 60' 90'

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



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, Offical 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 50.55 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 22 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 have 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 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 79 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
Toll Free (888) 937-5150 Plano, TX 75093
westwoodps.com
Westwood Professional Services, Inc.
TBPE FIRM REGISTRATION NO. F-11756
TBPLS 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

VITRUVIAN PARK ADDITION

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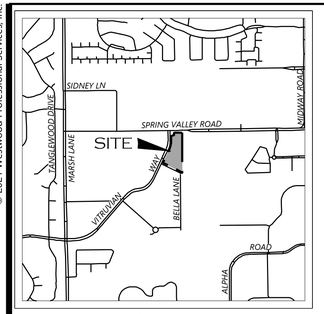
FIRE LANE ACCESS EASEMENT AND TRAIL ACCESS EASEMENT



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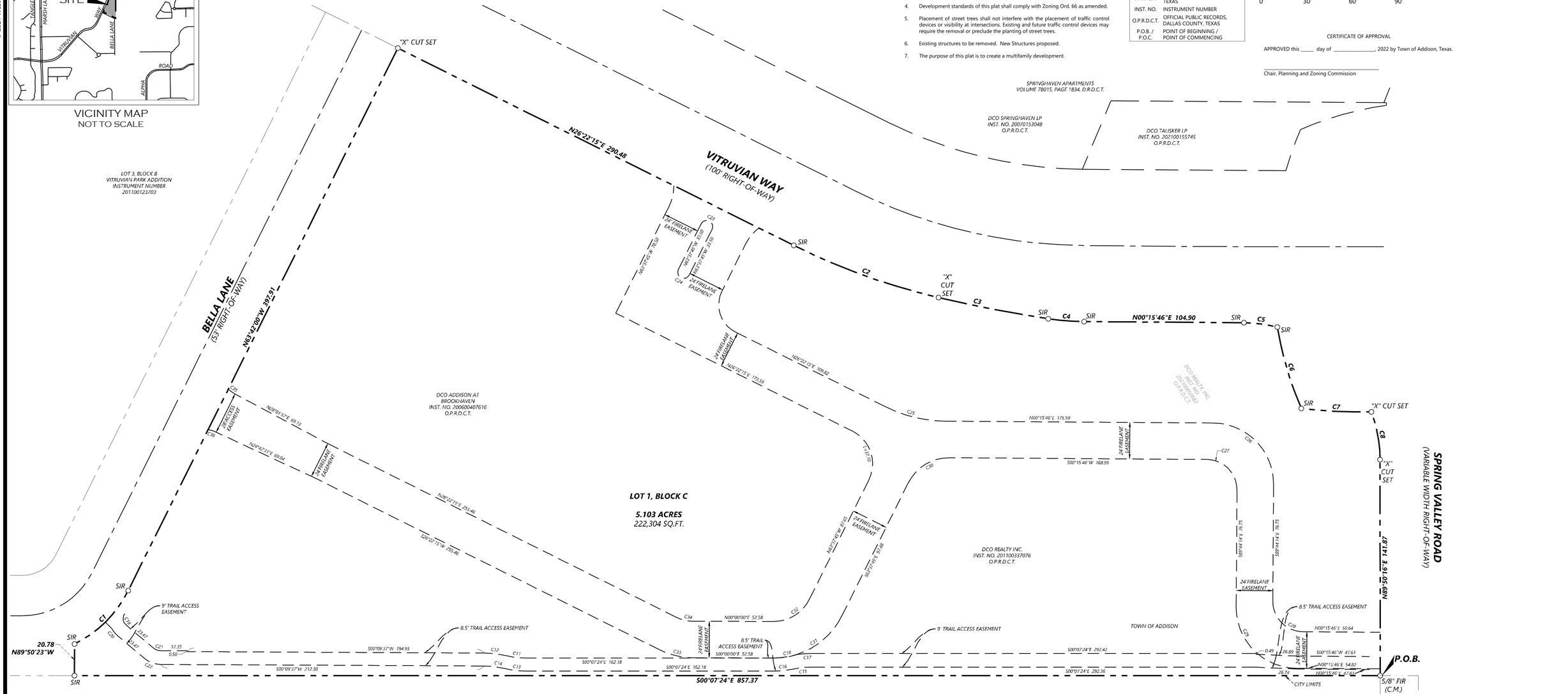


Line Table		
Line #	Length	Direction
L1	29.19	S89°50'23"E
L2	2.43	N00°09'37"E
L3	51.31	N00°09'37"E
L4	10.00	N00°09'37"E
L5	10.00	S89°50'23"E
L6	41.31	N00°09'37"E
L7	6.03	S89°50'23"E
L8	9.50	N26°22'15"E
L9	6.00	S26°18'00"W
L10	14.43	N26°22'15"E
L11	11.00	S26°22'15"W
L12	10.00	N63°37'45"W
L13	11.00	N26°22'15"E
L14	72.67	N63°37'45"W
L15	5.00	S63°37'45"E
L16	5.00	N26°22'15"E
L17	7.08	N63°37'45"W
L18	20.56	S71°22'15"W
L19	29.38	S71°22'15"W
L20	5.00	S63°37'45"E

Line Table		
Line #	Length	Direction
L21	17.60	N18°37'45"W
L22	26.39	N18°37'45"W
L23	97.30	N00°15'46"E
L24	10.00	N00°15'46"E
L25	121.00	N00°15'46"E
L26	32.00	N89°44'14"W
L27	10.00	N00°15'46"E
L28	38.06	N89°44'14"W
L29	26.57	S45°07'24"E
L30	24.88	S03°52'15"W
L31	4.63	S71°22'15"W
L32	5.00	S18°37'45"E
L33	9.63	S71°22'15"W
L34	5.00	S26°22'15"W
L35	82.48	S63°37'45"E
L36	5.00	N63°37'45"W
L37	9.50	S26°22'15"W
L38	17.52	N63°37'45"W
L39	9.50	N26°22'15"E
L40	9.56	S00°15'46"W

Line Table		
Line #	Length	Direction
L41	19.28	N89°44'14"W
L42	14.94	S82°26'00"E
L43	10.00	S07°34'00"W
L44	14.31	S82°26'00"E
L45	18.64	N89°44'14"W
L46	13.32	S71°22'15"W
L47	10.00	S63°37'45"E
L48	10.00	S26°22'15"W
L49	10.00	N63°37'45"W
L50	189.39	S63°37'45"E
L51	13.48	N26°22'15"E
L52	5.00	S63°37'45"E
L53	58.38	N26°22'15"E
L54	73.83	S26°22'15"W
L55	5.00	S63°37'45"E
L56	41.40	N71°22'15"E
L57	11.40	N71°22'15"E
L58	5.00	N00°15'46"E
L59	17.98	N89°44'14"W
L60	9.71	N86°07'35"W

Line Table		
Line #	Length	Direction
L61	12.52	N63°32'05"W
L62	5.00	S26°27'55"W
L63	11.52	N63°32'05"W
L64	10.78	N86°07'35"W
L65	17.72	N26°22'15"E
L66	5.28	N63°37'45"W
L67	5.00	S26°22'15"W
L68	5.28	N63°37'45"W
L69	5.05	N89°44'14"W
L70	5.00	S00°15'46"W
L71	5.05	N89°44'14"W
L72	2.51	N00°17'54"E
L73	10.00	S89°42'06"E
L74	2.50	N00°17'54"E
L75	20.30	N89°44'14"W
L76	19.54	S89°44'14"E
L77	5.00	S00°15'46"W
L78	19.54	S89°44'14"E
L79	17.50	S89°44'14"E
L80	5.00	S00°15'46"W

Line Table		
Line #	Length	Direction
L81	17.50	S89°44'14"E
L82	17.50	S89°44'14"E
L83	5.00	S00°15'46"W
L84	17.50	S89°44'14"E
L85	8.60	S89°44'14"E
L86	5.00	S00°15'46"W
L87	8.60	S89°44'14"E
L88	7.00	N26°22'15"E
L89	5.00	N63°37'45"W
L90	7.00	N26°22'15"E
L91	10.00	S63°37'45"E
L92	5.00	S26°22'15"W
L93	10.00	S63°37'45"E
L94	6.00	S63°37'45"E
L95	5.00	S26°22'15"W
L96	6.00	S63°37'45"E
L97	29.78	S03°52'15"W
L98	13.36	S45°07'24"E
L99	39.11	S89°52'36"W
L100	10.00	N26°22'15"E

Line Table		
Line #	Length	Direction
L101	10.00	S63°37'45"E
L102	3.81	N26°22'15"E
L103	32.93	S89°52'36"W
L104	6.88	N63°37'45"W
L105	19.00	N26°22'15"E
L106	5.00	N63°37'45"W
L107	8.00	S26°22'15"W
L108	8.00	S26°22'15"W
L109	11.50	N63°37'45"W
L110	5.00	N26°22'15"E
L111	5.00	S63°37'45"E
L112	5.00	N26°22'15"E
L113	39.41	S00°07'24"E
L114	11.60	S89°52'36"W
L115	5.00	S00°07'24"E
L116	11.60	S89°52'36"W
L117	7.00	S00°07'24"E
L118	11.60	S89°52'36"W
L119	5.00	S00°07'24"E
L120	11.60	S89°52'36"W

Line Table		
Line #	Length	Direction
L121	5.83	S00°07'24"E
L122	19.38	N31°48'52"W
L123	11.50	N26°22'15"E
L124	5.00	N63°37'45"W
L125	11.50	N26°22'15"E
L126	24.48	N63°37'45"W
L127	5.00	S63°37'45"E
L128	5.00	S26°22'15"W
L129	5.00	S63°37'45"E

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 73°26'28" 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°37'53" 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, COLORADO

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

SURVEYOR
Westwood

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

Westwood Professional Services, Inc.
TBPE FIRM REGISTRATION NO. F-11756
TBPLS FIRM REGISTRATION NO. 10074301

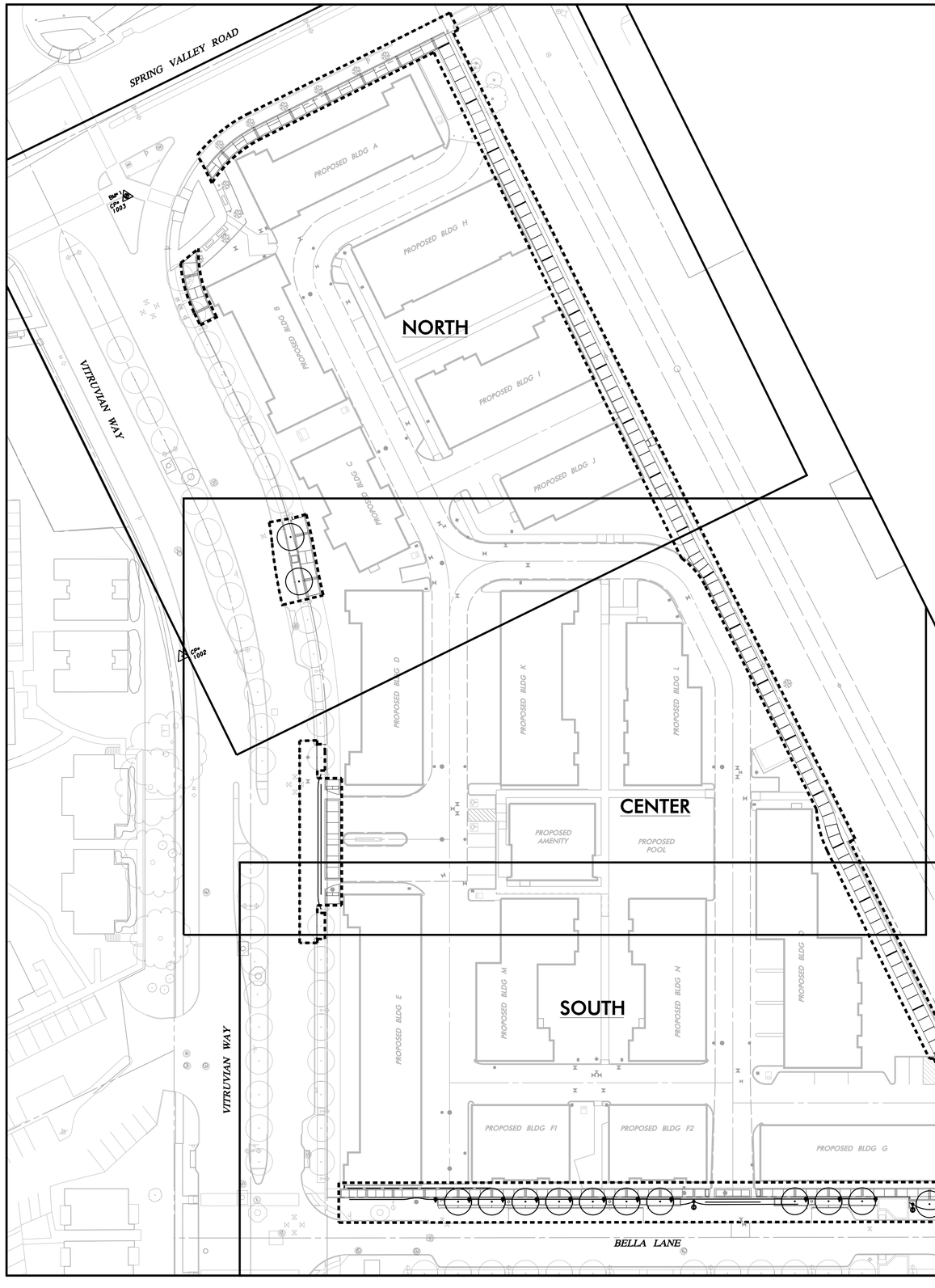
PRELIMINARY PLAT
VITRUVIAN PARK ADDITION
LOT 1, BLOCK C;

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

N:\0008445.06\DWG\SURVEY\PLAT\0008445.06PP.DWG

VITRUVIAN PARK ADDITION



LEGEND

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

CP 1001 XCUT	*CP 1002 XCUT SO*	*CP 1003 XCUT*
N 9229.84	*N 9627.92*	*N 9913.22*
E 11882.75	*E 12036.40*	*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

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.

STATE OF TEXAS
BRUCE E. DUNNE
62654
LICENSED PROFESSIONAL ENGINEER
04/04/23

NO.	REVISION	BY	DATE

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

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	APR 04, 2023	AS NOTED		02

TOWN PROJECT # 2022-05-C

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

GENERAL CONSTRUCTION NOTES

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

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

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

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

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

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

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

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

7. STORM WATER POLLUTION PREVENTION PLAN (SW3P): THE CONTRACTOR SHALL COMPLY WITH THE CONDITIONS OF THE SW3P WHILE CONDUCTING HIS ACTIVITIES ON THE PROJECT. IN ADDITION TO CONSTRUCTING THOSE ITEMS INDICATED ON THE PLAN SHEETS, COMPLIANCE WITH THE SW3P INCLUDES CONFORMANCE TO CERTAIN PRACTICES AND PROCEDURES (IDENTIFIED IN THE SW3P) DURING PROJECT CONSTRUCTION.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

A. CONSTRUCTION SIGNING AND BARRICADES SHALL CONFORM WITH THE "2003 TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART 6", AS CURRENTLY AMENDED, TEXAS DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION.

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

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

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

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

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

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

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

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

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

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

26. WATER FOR CONSTRUCTION: THE CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENTS FOR PURCHASING WATER FROM THE GOVERNING AUTHORITY FOR HIS USE ON THE PROJECT SITE. COSTS ASSOCIATED WITH THIS SERVICE SHALL BE INCLUDED IN THE CONTRACT AMOUNT. LANDSCAPE SHALL NOT BE INSTALLED UNTIL THE AUTOMATIC IRRIGATION SYSTEM IS FULLY OPERATIONAL.

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

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

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

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

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

32. EXISTING ROADWAYS & MEDIANS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE CLEANLINESS OF EXISTING PAVED ROADS. ALL COSTS ASSOCIATED WITH MAINTAINING THE CLEANLINESS OF EXISTING ROADS SHALL BE INCLUDED IN THE CONTRACT AMOUNT. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO MEDIANS/MEDIAN LANDSCAPING FROM DELIVERY VEHICLES, UTILITY EXCAVATIONS, ETC.

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

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

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

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

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

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

ABBREVIATIONS

APPROX	APPROXIMATELY
ASPH	ASPHALT
BC	BACK OF CURB
B–B	BACK TO BACK OF CURB
BM	BENCHMARK
BW	BOTTOM OF WALL
CATV	CABLE TV
CFS	CUBIC FEET PER SECOND
CI	CURB INLET
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC	CONCRETE
CONST	CONSTRUCT
CL	CENTER LINE
DCO	DOUBLE CLEANOUT
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DW	DOMESTIC WATER
EL	ELEVATION
EMH	ELECTRIC MANHOLE
EP	EDGE OF PAVEMENT
EX	EXISTING
FC	FACE OF CURB
F–F	FACE TO FACE OF CURB
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FM	FORCE MAIN
FO	FIBER OPTICS
FP	FINISHED PAD
FPS	FEET PER SECOND
FL	FLOW LINE
FUT	FUTURE
FW	FIRE WATER
G	GAS
GI	GRATE INLET
GM	GAS METER
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HDWL	HEADWALL
HMAC	HOT MIX ASPHALTIC CONCRETE
HORIZ	HORIZONTAL
HP	HIGH POINT
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
IRR	IRRIGATION
JB	JUNCTION BOX
JT	JOINT
LF	LINEAR FEET
LP	LOW POINT
LT	LEFT
MH	MANHOLE
N/A	NOT APPLICABLE
NG	NATURAL GROUND (EXISTING)
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
PL	PROPERTY LINE
PP	POWER POLE
PRC	POINT OF REVERSE CURVATURE
PR	PROPOSED
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE PIPE
PVMT	PAVEMENT
OCEW	ON CENTER EACH WAY
OHE	OVERHEAD ELECTRIC
R	RADIUS
RCB	REINFORCED CONCRETE BOX
RCI	RECESSED CURB INLET
RCP	REINFORCED CONCRETE PIPE
RCCP	REINFORCED CONCRETE CYLINDRICAL PIPE
REC	RECESSED
REINF	REINFORCED
RL	RIDGE LINE
ROW	RIGHT OF WAY
RT	RIGHT
SF	SQUARE FEET
SD	STORM DRAIN
SQ	SQUARE
SS	SANITARY SEWER
STA	STATION
SY	SQUARE YARD
T	TELEPHONE
TC	TOP OF CURB
TDUCT	TOP OF DUCT
TG	TOP OF GROUND
TMH	TELEPHONE MANHOLE
TOB	TOP OF BANK
TOS	TOE OF SLOPE
TP	TOP OF PAVEMENT
TPIPE	TOP OF PIPE
TW	TOP OF WALL
TYP	TYPICAL
UGE	UNDERGROUND ELECTRIC
VCP	VITRIFIED CLAY PIPE
W	WATER
WV	WATER VALVE

LEGEND

	EXISTING	PROPOSED	FUTURE
PROPERTY LINE			N/A
BUILDING			
FINISH FLOOR ELEVATION	FFE=650.00	FFE=650.00	N/A
SPOT ELEVATION	x 650.50	x 650.50	N/A
CURB			
ASPHALT PAVEMENT			N/A
RIDGE LINE	N/A	RL	N/A
SWALE or VALLEY GUTTER			N/A
CONTOUR LINE	675	675	674
STORM DRAIN	21"SD	21"SD	
STORM DRAIN MANHOLE			
CURB INLET	CI		
RECESSED CURB INLET	CI		
GRATE INLET	GI	■	N/A
WATER LINE	8"W	8"W	8"W
FIRE HYDRANT			N/A
WATER VALVE			N/A
WATER METER BOX		W	N/A
IRRIGATION METER	N/A	I	N/A

	EXISTING	PROPOSED	FUTURE
SANITARY SEWER LINE	8"SS	8"SS	8"SS
SANITARY SEWER MANHOLE	SSMH	●	○
CLEANOUT	CO		
LIGHT POLE	☼	☼	N/A
POWER POLE	PP		N/A
DOWN GUY	←	←	N/A
SIGN			N/A
ACCESSIBLE PARKING	♿	♿	N/A
RETAINING WALL			N/A
WOOD FENCE			N/A
SCREEN WALL FENCE			N/A
CHAIN LINK FENCE			N/A
WIRE FENCE			N/A
TREE		N/A	N/A
OVERHEAD WIRES	OHW	N/A	N/A
OVERHEAD ELECTRIC LINE	OHE	OHE	N/A
OVERHEAD TELEPHONE LINE	OHT	OHT	N/A
UNDERGROUND ELECTRIC LINE	UGE	UGE	N/A
UNDERGROUND TELEPHONE LINE	UGT	UGT	N/A
UNDERGROUND CABLE LINE	CATV	CATV	N/A
ELECTRIC METER	EM	EM	N/A

	EXISTING	PROPOSED	FUTURE
ELECTRIC TRANSFORMER	T	T	N/A
GAS METER	GM	GM	N/A
GAS LINE	G	G	N/A
AIR CONDITIONING UNIT	☒	☒	N/A

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STREETSCAPE & TRAIL IMPROVEMENTS
VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701
TOWN OF ADDISON, TEXAS
GENERAL CONSTRUCTION NOTES,
LEGEND & ABBREVIATIONS

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	APR 04, 2023	AS NOTED		03A

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

TOWN PROJECT # 2022-05-C

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.

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.

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.

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.

STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
04/04/23

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STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

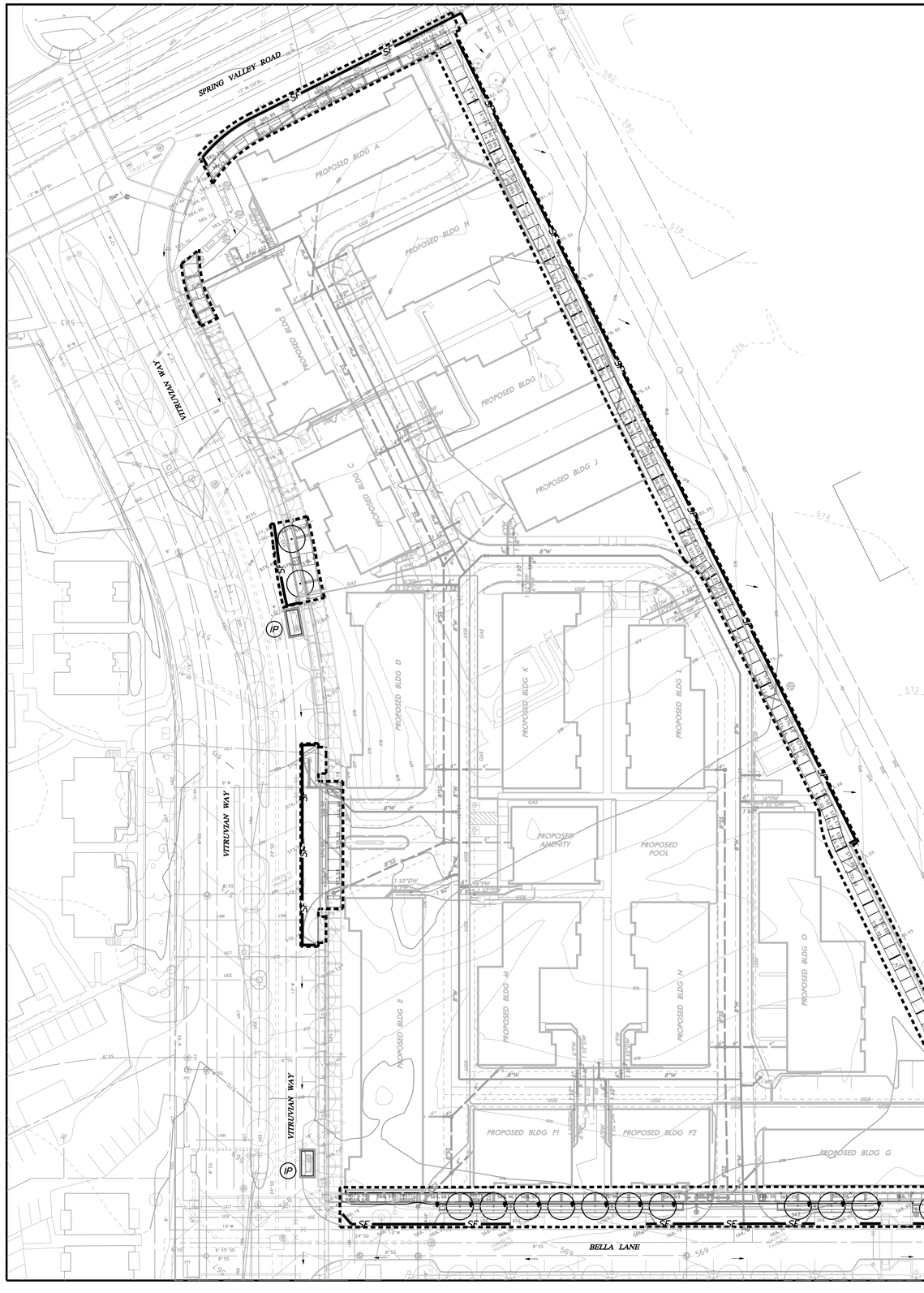
TOWN OF ADDISON, TEXAS

GENERAL CONSTRUCTION NOTES - TOWN OF ADDISON

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	APR 04, 2023	AS NOTED		03B

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

TOWN PROJECT # 2022-05-C



5. GENERAL NOTES FOR EROSION CONTROL

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5.1.2. ALL RELEASES OF REPORTABLE QUANTITIES OF HAZARDOUS SUBSTANCES SHALL 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 SYSTEMS FROM EROSION DEPOSITS.

5.2.1.1. QUALIFIED OPERATOR PERSONNEL MUST INSPECT THE SITE WEEKLY, AND 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.

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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.

NORTH

0 230 460 690 920
GRAPHIC SCALE IN FEET
SCALE: 1"=460'

LEGEND

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

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

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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Engineering Firm Registration Number F-9007

STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

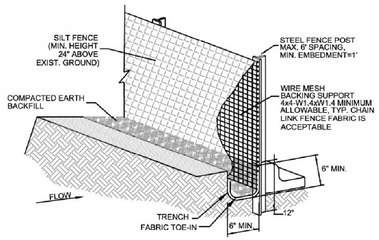
TOWN OF ADDISON, TEXAS

EROISON & SEDIMENT CONTROL PLAN

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	APR 04, 2023	AS NOTED		04

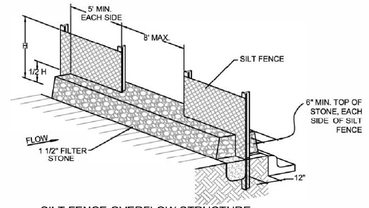
STREETSCAPE & TRAIL IMPROVEMENTS - VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701 - PROJECT NO. 5029-08

TOWN PROJECT # 2022-05-C



ISOMETRIC PLAN VIEW

N.T.S.



SILT FENCE OVERFLOW STRUCTURE

N.T.S.

Revised 2018

Figure 3.30 Schematics of Silt Fence

SILT FENCE GENERAL NOTES:

1. 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.

2. 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.

3. 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.

4. 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. 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.

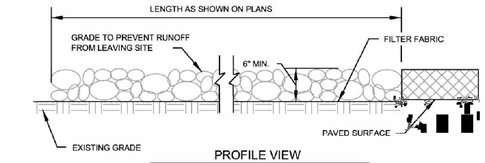
6. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH SUPPORT POST OR TO WIRE BACKING, WHICH IN TURN IS ATTACHED TO THE FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.

7. INSPECTION SHALL BE AS SPECIFIED IN THE SWPPP. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

8. SILT FENCE SHALL BE REMOVED WHEN FINAL STABILIZATION IS ACHIEVED OR ANOTHER EROSION OR SEDIMENT CONTROL DEVICE IS EMPLOYED.

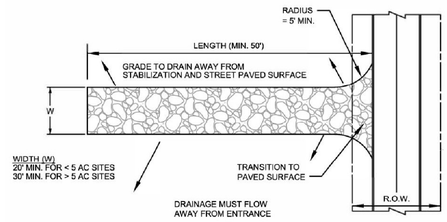
9. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

10. SEE NCTCOG STANDARD SPECIFICATIONS (2017), SECTION 202.5



PROFILE VIEW

N.T.S.



PLAN VIEW

N.T.S.

ENTRACE MUST BE SLOPED SO THAT STORM WATER IS NOT ALLOWED TO LEAVE THE SITE AND ENTER ROADWAYS

STABILIZED CONSTRUCTION ENTRANCE GENERAL NOTES:

1. SEE NCTCOG STANDARD SPECIFICATIONS (2017), SECTION 202.11

2. THE THICKNESS SHALL NOT BE LESS THAN 6 INCHES.

3. STONE SHALL BE 3 TO 5 INCH DIAMETER COURSE AGGREGATE, NO CRUSHED PORTLAND CEMENT CONCRETE ALLOWED.

4. LENGTH SHALL BE AS SHOWN ON PLANS, WITH A MINIMUM LENGTH OF 50 FEET.

5. 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.

6. 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.

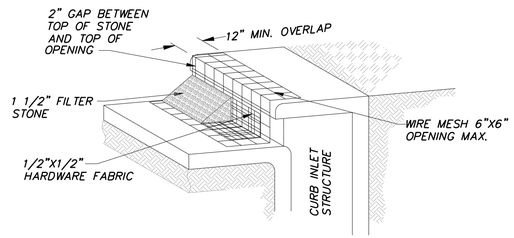
7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES MUST BE REMOVED IMMEDIATELY.

8. THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

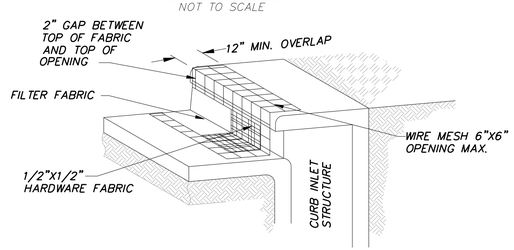
9. INSPECTION SHALL BE SPECIFIED IN THE SWPPP.

Revised 2018

Figure 3.32 Schematics of Stabilized Construction Exit



ISOMETRIC PLAN VIEW
RECESSED INLET
NOT TO SCALE



ISOMETRIC PLAN VIEW
STANDARD INLET
NOT TO SCALE

CURB INLET PROTECTION
NOT TO SCALE

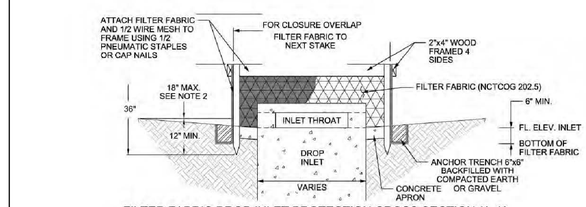
NOTES:

1. MATERIAL SPECIFICATIONS:
A. CONCRETE BLOCK–ASTM C 139, CONCRETE MASONRY UNIT FOR CONSTRUCTION.
B. WIRE FABRIC–STANDARD GALVANIZED HARDWARE FABRIC WITH 1/2" BY 1/2" OPENINGS.
C. FILTER STONE–NCTCOG SPECIFICATION 2.1.8.(E).
D. WIRE MESH–WELDED WIRE FABRIC CONFORMING TO NCTCOG SPECIFICATION 2.2.7 MAXIMUM OPENING 6"x6".

2. MAINTENANCE REQUIREMENTS: CURB INLET PROTECTION SHOULD BE INSPECTED WEEKLY AND AFTER MAJOR RAIN EVENTS TO ENSURE THAT THE DEVICE IS FUNCTIONING PROPERLY. REMOVE SEDIMENT FROM THE STORAGE AREA WHEN THE DEPTH OF SEDIMENT HAS BUILT UP TO ONE–HALF OF THE STORAGE DEPTH. IF DE–WATERING OF THE STORAGE VOLUME IS NOT OCCURRING, CLEAN OR REPLACE THE FILTER STONE. CLEAN THE FILTER STONE SURFACE THE FIRST FEW TIMES BY RAKING. REPEATED SEDIMENT BUILD–UP WILL REQUIRE FILTER STONE REPLACEMENT.

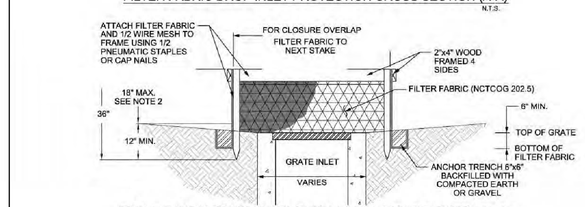
3. DO NOT USE A SEDIMENT FILTER TO CONTROL EROSION AROUND "Y" INLETS, UTILIZE SEDIMENT FENCES.

4. EXTEND MESH, FABRIC AND FILTER STONE 12" BEYOND END OF INLET ON BOTH ENDS.



FILTER FABRIC DROP INLET PROTECTION CROSS SECTION (A-A)

N.T.S.



FILTER FABRIC GRATE INLET PROTECTION CROSS SECTION (A-A)

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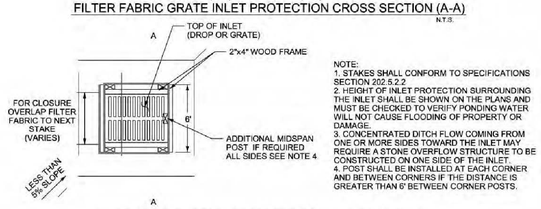

AREA INLET PROTECTION FILTER BARRIER PLAN VIEW

N.T.S.

Revised 2019

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

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Engineering Firm Registration Number F–9007

STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

TOWN OF ADDISON, TEXAS

EROSION & SEDIMENT CONTROL DETAILS

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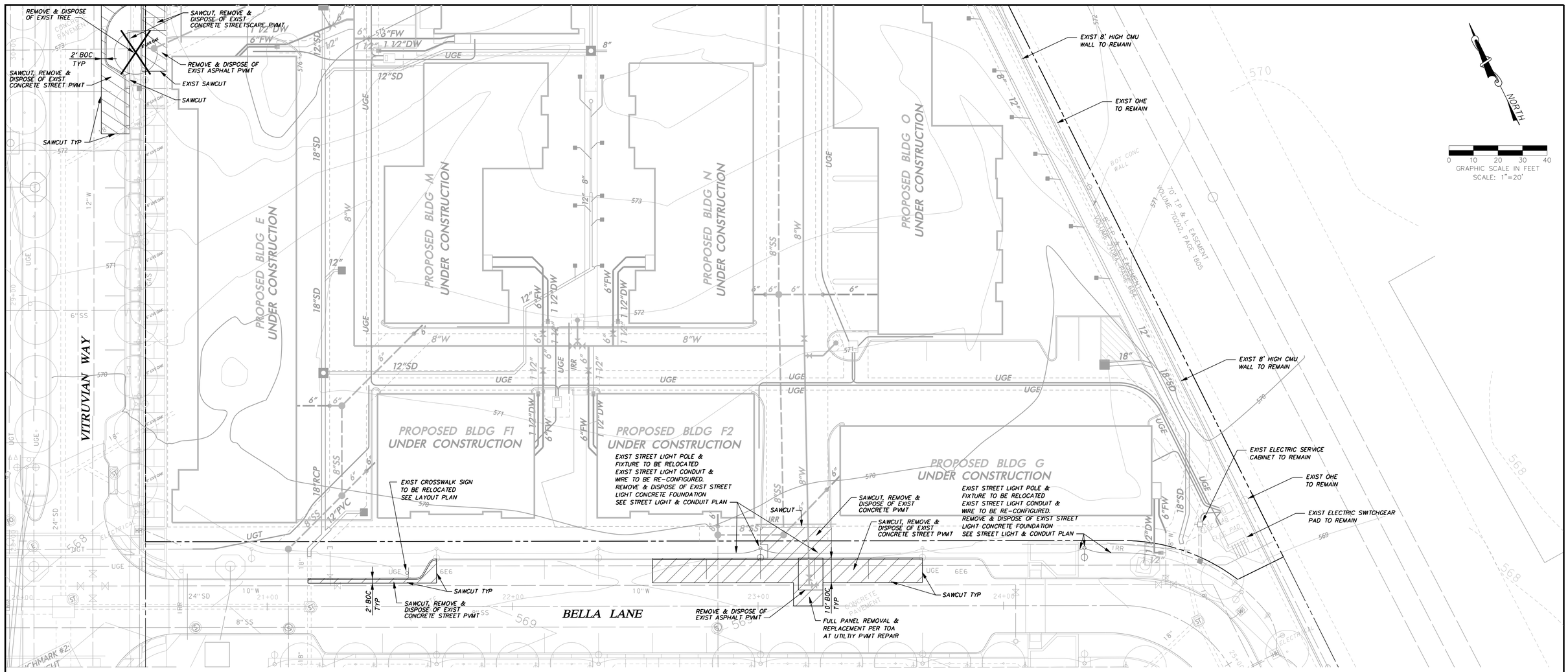
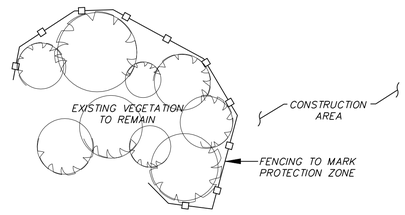
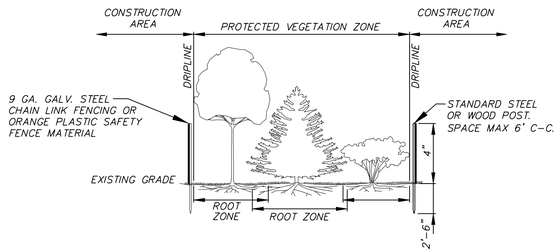
ICE	ICE	APR 04, 2023	AS NOTED		05

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

TOWN PROJECT # 2022-05-C







TREE PROTECTION & LIMITS OF DISTURBANCE FENCING DETAIL

NOT TO SCALE

LEGEND

REMOVE & DISPOSE OF EXISTING ASPH PAVEMENT, CONC CURB & GUTTER AND CONC SIDEWALK

REMOVE & DISPOSE OF EXIST TREE

TREE PROTECTION FENCE

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

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.

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STATE OF TEXAS
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Engineering Firm Registration Number F-9007

STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

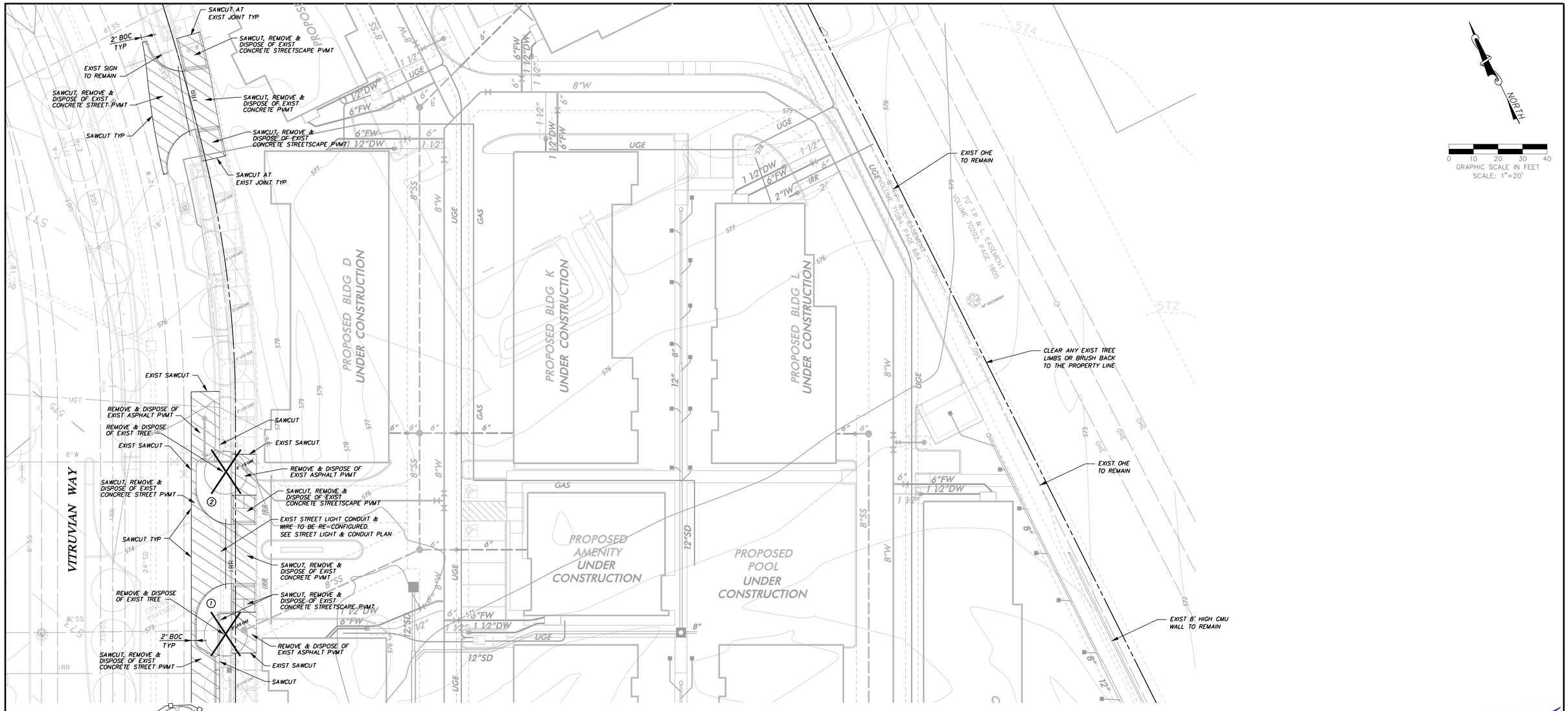
TOWN OF ADDISON, TEXAS

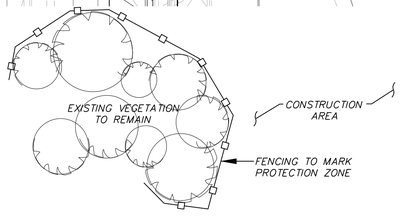
DEMOLITION PLAN SOUTH

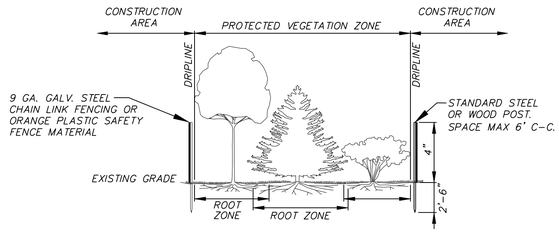
DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	APR 04, 2023	AS NOTED		06

TOWN PROJECT # 2022-05-C

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







TREE PROTECTION & LIMITS OF DISTURBANCE FENCING DETAIL
NOT TO SCALE

LEGEND

REMOVE & DISPOSE OF EXISTING ASPH PAVEMENT, CONC CURB & GUTTER AND CONC SIDEWALK

REMOVE & DISPOSE OF EXIST TREE

TREE PROTECTION FENCE

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

BM #1 REF. ELEVATION = 584.37
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STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

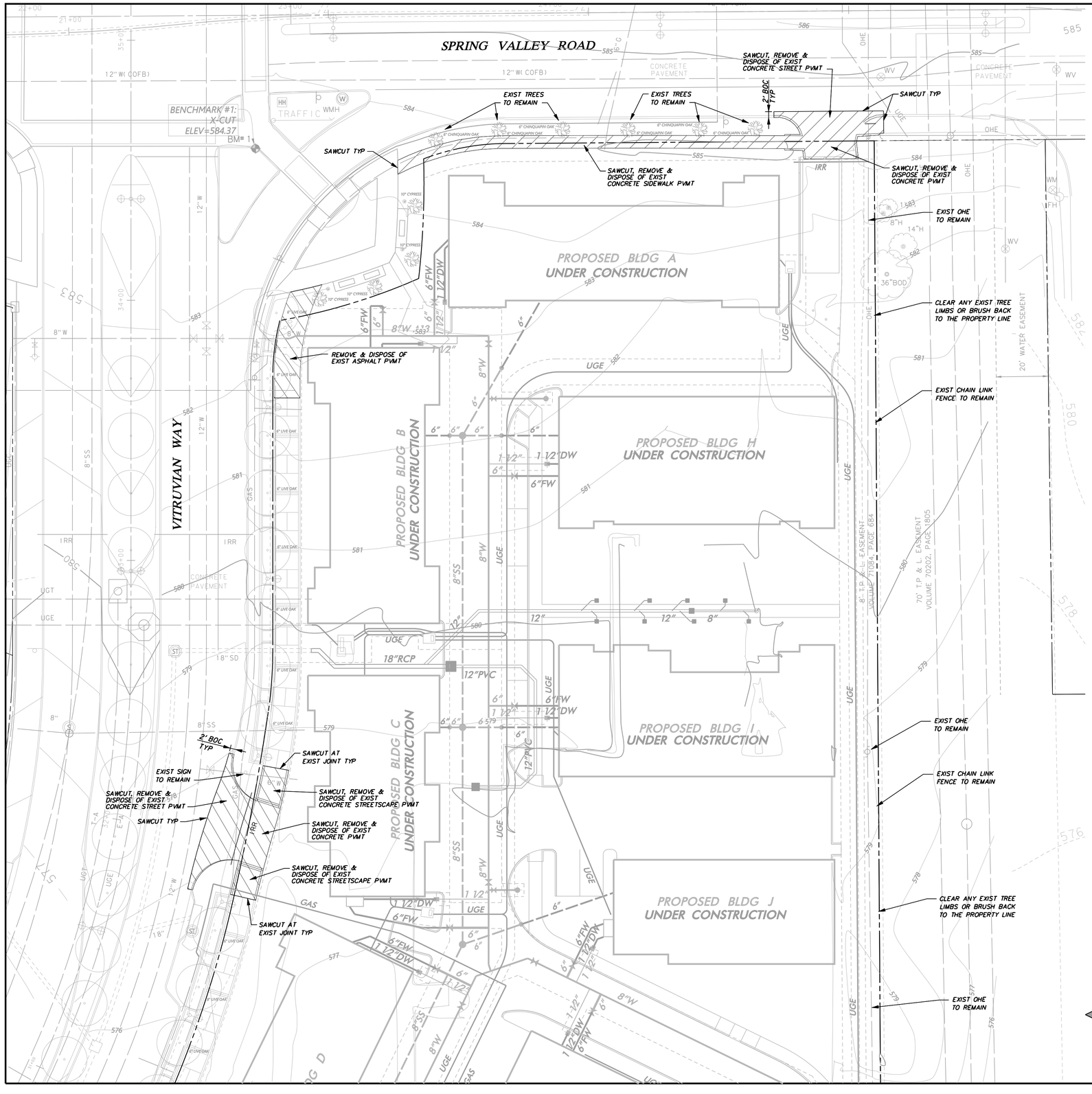
TOWN OF ADDISON, TEXAS

DEMOLITION PLAN CENTER

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	APR 04, 2023	AS NOTED		07

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

TOWN PROJECT # 2022-05-C



DEMOLITION NOTES:

1. GENERAL CONSTRUCTION NOTES: REFER TO SHEET 03 "GENERAL CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS" FOR THE GENERAL CONSTRUCTION NOTES FOR THE PROJECT.

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

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

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

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

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

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

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

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

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

11. ACCESS TO PROPERTIES: DURING THE CONSTRUCTION OF THIS PROJECT, STREET AND SIDEWALK ACCESS TO ABUTTING PROPERTIES MUST BE MAINTAINED AT ALL TIMES.

12. 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.

13. 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.

14. 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.

NORTH

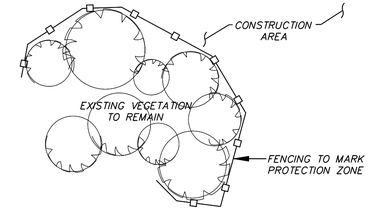
0 10 20 30 40
GRAPHIC SCALE IN FEET
SCALE: 1"=20'

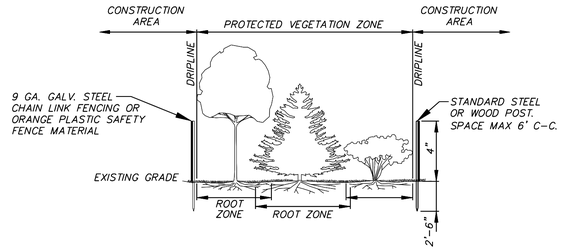
LEGEND

REMOVE & DISPOSE OF EXISTING ASPH PAVEMENT, CONC CURB & GUTTER AND CONC SIDEWALK

REMOVE & DISPOSE OF EXIST TREE

TREE PROTECTION FENCE





TREE PROTECTION & LIMITS OF DISTURBANCE FENCING DETAIL

NOT TO SCALE

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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STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
04/04/23

NO.	REVISION	BY	DATE

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Engineering Firm Registration Number F-9007

STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

TOWN OF ADDISON, TEXAS

DEMOLITION PLAN NORTH

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	APR 04, 2023	AS NOTED		08

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

TOWN PROJECT # 2022-05-C

SEE CENTER SHEET

SEE CENTER SHEET

VITRUVIAN WAY STREETSCAPE
SEE STREETSCAPE DETAILS ON SHEET 15

STA 29+91.35~VITRUVIAN WAY, 48.5' RT
WEST EDGE STREETSCAPE
CONNECT OT EXIST
N 9441.56, E 12048.14

STA 29+75.46~VITRUVIAN WAY, 33.5' RT
PC DRIVE CURVE
N 9433.98, E 12027.64

STA 29+74.23~VITRUVIAN WAY, 33.5' RT
END PARALLEL PARKING CURB
TRANSITION
N 9432.87, E 12027.09

STA 29+65.85~VITRUVIAN WAY, 41.5' RT
END PARALLEL PARKING CURB
TRANSITION, CONNECT TO EXIST
N 9421.82, E 12030.54

VISIBILITY TRIANGLE TYP

30'R

VITRUVIAN WAY

PROPOSED BLDG M
FF=574.00

PROPOSED BLDG N
FF=573.00

PROPOSED BLDG O
FF=573.00

PROPOSED BLDG
FF=573.00

PROPOSED BLDG
FF=572.50

PROPOSED BLDG F1
FF=572.00

PROPOSED BLDG F2
FF=572.00

PROPOSED BLDG G
FF=571.00

12"SD

18"SD

18"RCP

EXPANSION JOINT TYP

EXIST 8' HIGH CMU WALL

2' TYP

8' TYP

BOT CONC WALL

EXIST BOC

EXPANSION JOINT TYP

PT
EAST EDGE TRAIL
N 9114.36, E 12368.99

16'R EAST EDGE TRAIL

PC
EAST EDGE TRAIL
N 9103.08, E 12364.38

PT
EAST EDGE TRAIL
N 9086.14, E 12350.18

14'R EAST EDGE TRAIL

POC
STA 24+63.72~BELLA LANE, 28.9' LT=
EAST EDGE TRAIL
END BELLA LANE STREETSCPE
BEGIN TRAIL
N 9081.33, E 12341.78

14'R SOUTH EDGE STREETSCAPE

PRC
STA 24+57.29~BELLA LANE, 24' LT
SOUTH EDGE STREETSCAPE
N 9083.85, E 12331.16

PC
STA 24+48.37~BELLA LANE, 24' LT
SOUTH EDGE STREETSCAPE
N 9090.66, E 12319.97

PC STA 24+48.37
N 9069.14
E 12309.34

75'R SOUTH EDGE

CONNECT TREE DRAIN LINE TO 18"SD
FL=563.83

TREE DRAIN LINE
@ 0.60% TYP

ADA DOME PANELS
1-24"X48" PANEL, BROWN COLOR
TEKWAY OR APPROVED EQUAL

TRANSITION CURB FROM
6"HIGH TO 0" HIGH IN 27'

END & PLUG
TREE DRAIN LINE
FL=564.57

PROP TREE TYP

99 LF ROOT BARRIER
REF LANDSCAPE
CANOPY TREE DETAIL

STA 23+67.00~BELLA LANE, 19'LT
END PARALLEL PARKING CURB
TRANSITION, CONNECT TO EXIST
N 9122.23, E 12244.81

PI
STA 24+30.50~BELLA LANE, 26'LT
STA 24+30.50~BELLA LANE, 24'LT
SOUTH EDGE STREETSCAPE
N 9100.37, E 12304.84, 26'LT
N 9098.58, E 12303.95, 24'LT

STA 23+58.63~BELLA LANE, 11'LT
BEGIN PARALLEL PARKING CURB
TRANSITION
N 9118.77, E 12233.76

STA 23+50.97~BELLA LANE, 11'LT
PT DRIVE LANE
N 9122.16, E 12226.89

STA 23+30.47~BELLA LANE, 26'LT
SOUTH EDGE STREETSCAPE
N 9144.69, E 12215.16

STA 23+57.00~BELLA LANE, 19'LT
BEGIN PARALLEL PARKING CURB
TRANSITION, CONNECT TO EXIST
N 9170.97, E 12146.19

STA 22+65.37~BELLA LANE, 11'LT
END PARALLEL PARKING CURB
TRANSITION
N 9160.09, E 12150.15

STA 22+79.98~BELLA LANE, 11'LT
PC DRIVE LANE
N 9153.61, E 12163.25

STA 23+00.47~BELLA LANE, 26'LT
SOUTH EDGE STREETSCAPE
N 9157.98, E 12188.27

STA 21+68.99~BELLA LANE, 19'LT
END PARALLEL PARKING
CONNECT TO EXIST
N 9209.96, E 12067.29

STA 21+57.66~BELLA LANE, 32'LT
END TYPE 6 RETAINING WALL
CONNECT TO EXIST WALL
N 9226.63, E 12062.90

STA 21+25.00~BELLA LANE, 19'LT
END PARALLEL PARKING CURB
TRANSITION
N 9229.45, E 12027.86

STA 21+16.63~BELLA LANE, 11'LT
BEGIN PARALLEL PARKING CURB
TRANSITION, CONNECT TO EXIST
N 9225.99, E 12016.81

STA 20+61.35~BELLA LANE, 32'LT
BEGIN TYPE 6 RETAINING WALL
CONNECT TO EXIST BLDG FOUNDATION, 2.3'LT
N 9269.31, E 11976.56

STA 20+58.96~BELLA LANE, 26'LT
SOUTH EDGE STREETSCAPE
N 9264.99, E 11971.76

STA 20+00.00~BELLA LANE=
STA 27+73.16~VITRUVIAN WAY
N 9267.80
E 11907.38

CONNECT TREE DRAIN LINE TO 18"SD
FL=561.36

TREE DRAIN LINE
@ 0.60% TYP

STA 21+57.66~BELLA LANE, 32'LT
END TYPE 6 RETAINING WALL
CONNECT TO EXIST WALL
N 9226.63, E 12062.90

ADA DOME PANELS
1-24"X48" PANEL, BROWN COLOR
TEKWAY OR APPROVED EQUAL

TRANSITION CURB FROM
6"HIGH TO 0" HIGH IN 27'

END & PLUG
TREE DRAIN LINE
FL=562.30

VISIBILITY TRIANGLE TYP

TRANSITION CURB FROM
6"HIGH TO 0" HIGH IN 27'

END & PLUG
TREE DRAIN LINE
FL=564.57

PROP TREE TYP

99 LF ROOT BARRIER
REF LANDSCAPE
CANOPY TREE DETAIL

RELOCATED SIGN
SEE SHEET 13

TYPICAL BELLA LANE STREETSCAPE
SEE STREETSCAPE DETAILS
ON SHEETS 13 & 14

159 LF ROOT BARRIER
REF LANDSCAPE
CANOPY TREE DETAIL

GUTTER LINE TYP

PROP TREE TYP

BELLA LANE

30'R

TW571.42 BW568.64
TW571.42 BW569.05
TW571.42 BW569.44

BENCHMARK #2

NORTH

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

NO	DELTA	RADIUS	LENGTH
1	63° 51' 37"	40.00'	56.84'

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 PVMT. 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
"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.

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STATE OF TEXAS
BRUCE E. DUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
04/04/23

NO.	REVISION	BY	DATE

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Engineering Firm Registration Number F-9007

STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

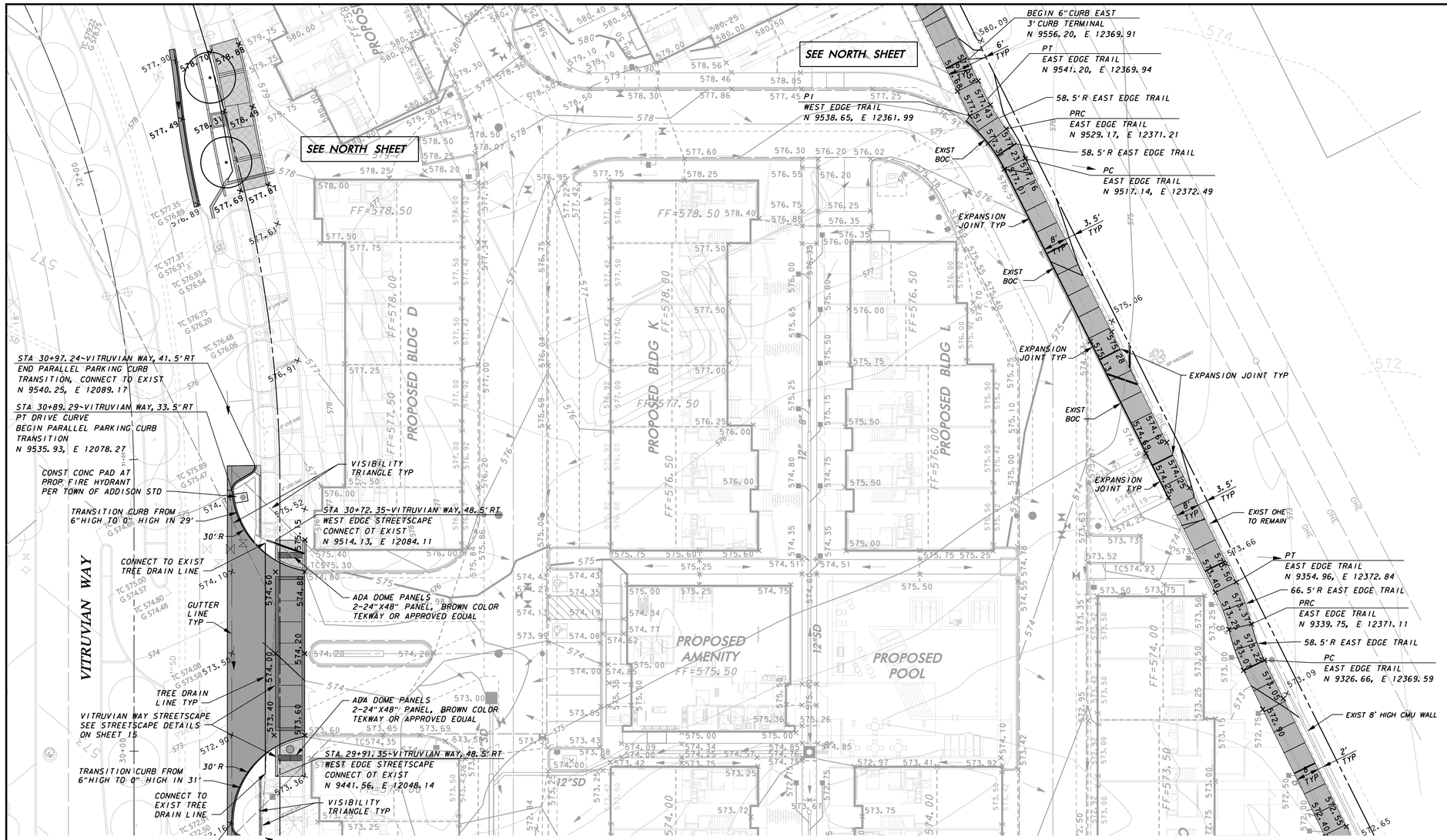
TOWN OF ADDISON, TEXAS

LAYOUT & GRADING PLAN SOUTH

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	APR 04, 2023	AS NOTED		09

TOWN PROJECT # 2022-05-C

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



SEE SOUTH SHEET

SEE SOUTH SHEET

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LEGEND

STREET PAVEMENT:
10" 4200 PSI CONCRETE PVMT. 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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STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

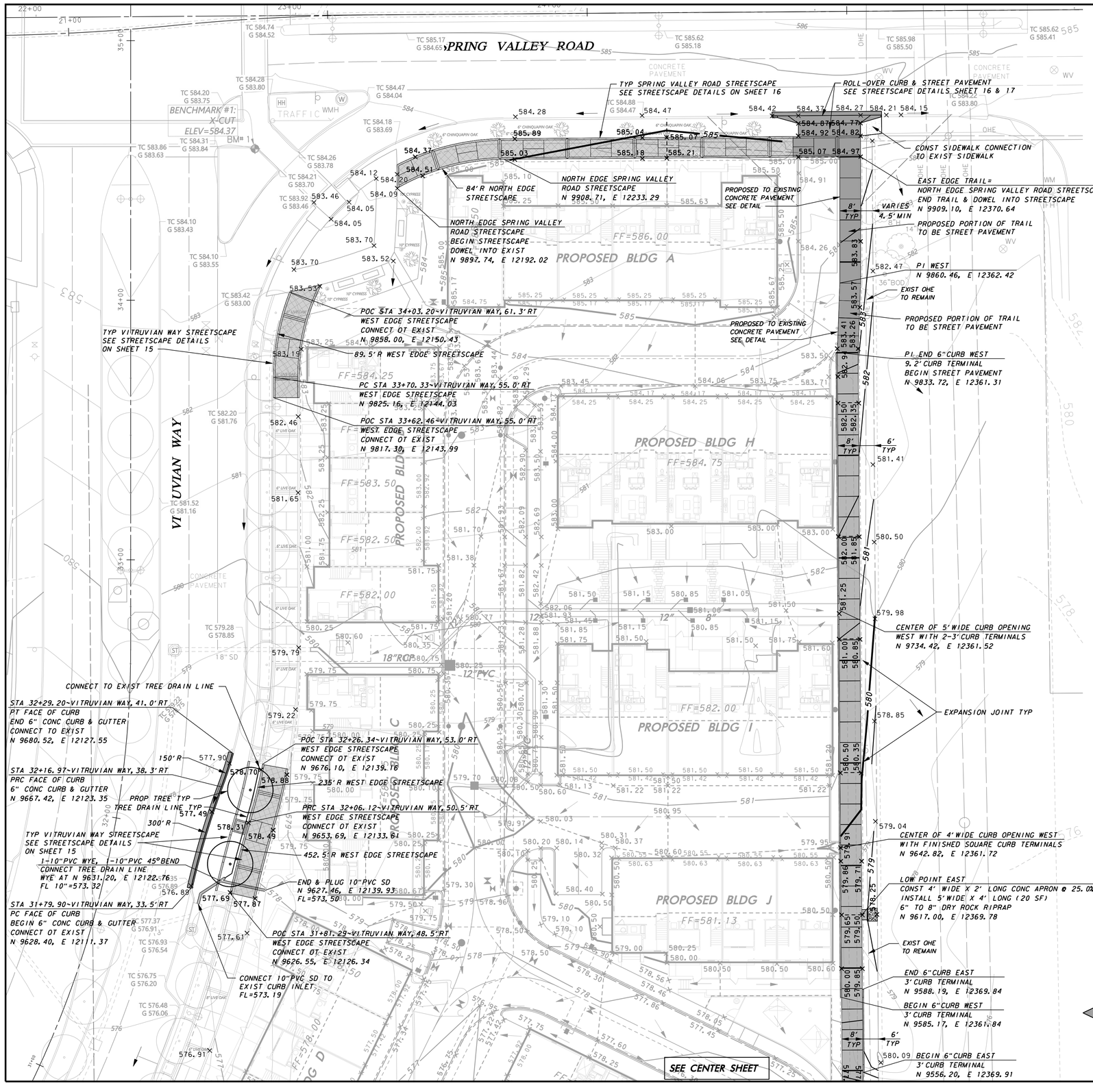
TOWN OF ADDISON, TEXAS

LAYOUT & GRADING PLAN CENTER

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	APR 04, 2023	AS NOTED		10

TOWN PROJECT # 2022-05-C

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



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LEGEND

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10" 4200 PSI CONCRETE PVMT. 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

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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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STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

TOWN OF ADDISON, TEXAS

LAYOUT & GRADING PLAN NORTH

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	APR 04, 2023	AS NOTED		11

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

TOWN PROJECT # 2022-05-C

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 FOLOWING:

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

STATE OF TEXAS
BRUCE F. BUNNE
62654
LICENSED
PROFESSIONAL ENGINEER
04/04/23

NO.	REVISION	BY	DATE

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

STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

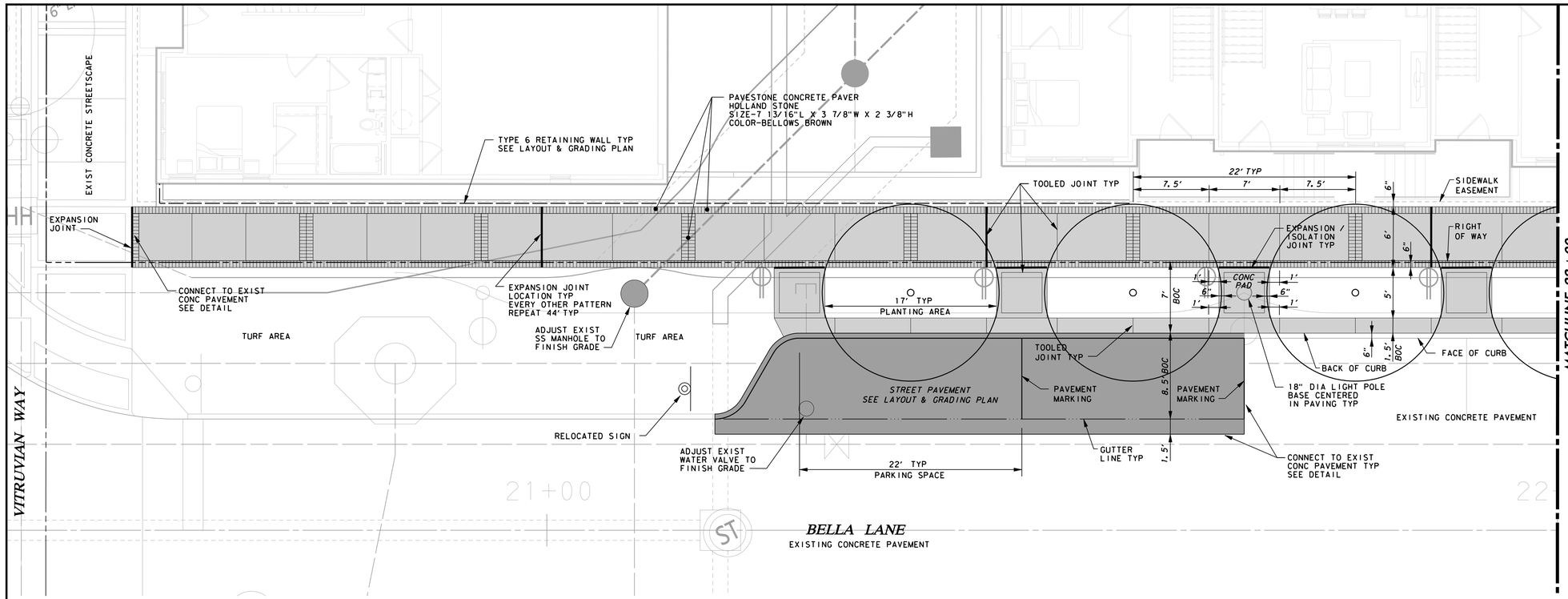
TOWN OF ADDISON, TEXAS

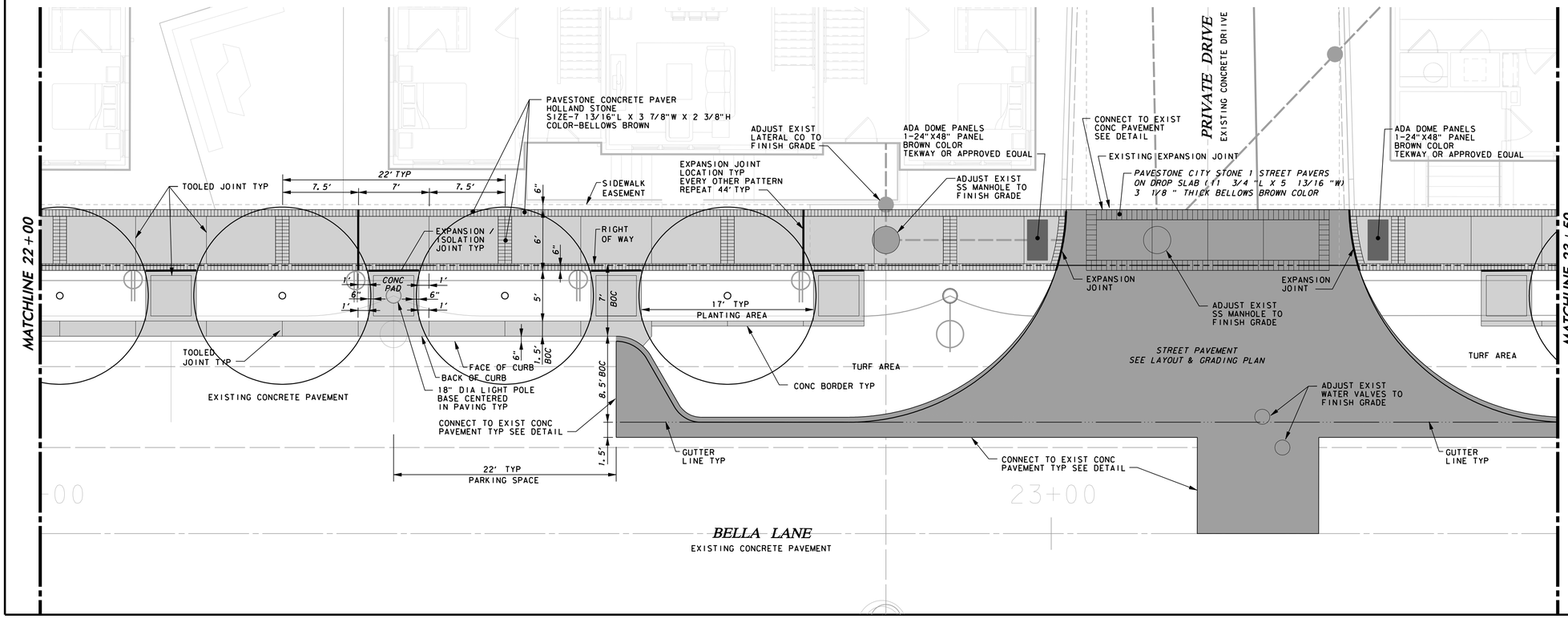
PAVING & GRADING NOTES & DETAILS

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	APR 04, 2023	AS NOTED		12

TOWN PROJECT # 2022-05-C

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





NORTH

0 3 6 9 12
GRAPHIC SCALE IN FEET
SCALE: 1"=6'

NOTES:

1. SIGN LOCATIONS SHOWN ON PLANS ARE DIAGRAMMATIC. SIGNS WILL BE PLACED IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST ADDITION.
2. ALL PAVEMENT MARKINGS TO BE ALKYD THERMOPLASTIC WITH 0.090 INCHES THICKNESS.
3. SIGN POSTS AND MOUNTING PER TOWN OF ADDISON REQUIREMENTS.

STATE OF TEXAS
BRUCE F. DUNNE
62654
LICENSED PROFESSIONAL ENGINEER
04/04/23

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STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

TOWN OF ADDISON, TEXAS

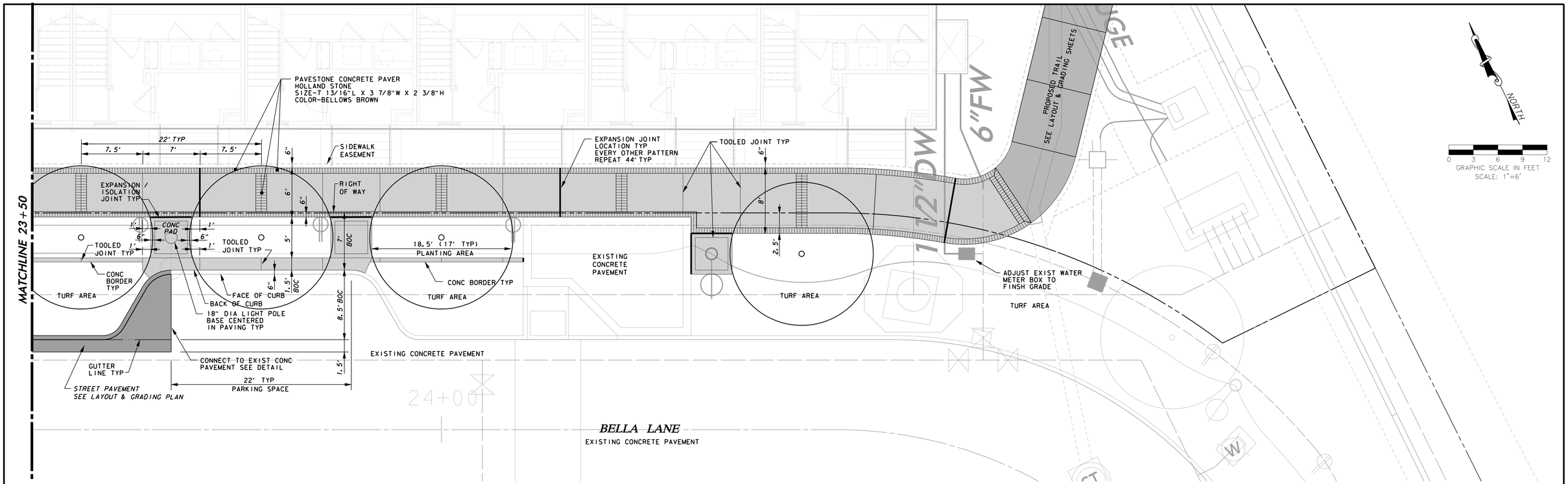
STREETSCAPE PAVING DETAILS

BELLA LANE

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	APR 04, 2023	AS NOTED		13

TOWN PROJECT # 2022-05-C

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



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STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

TOWN OF ADDISON, TEXAS

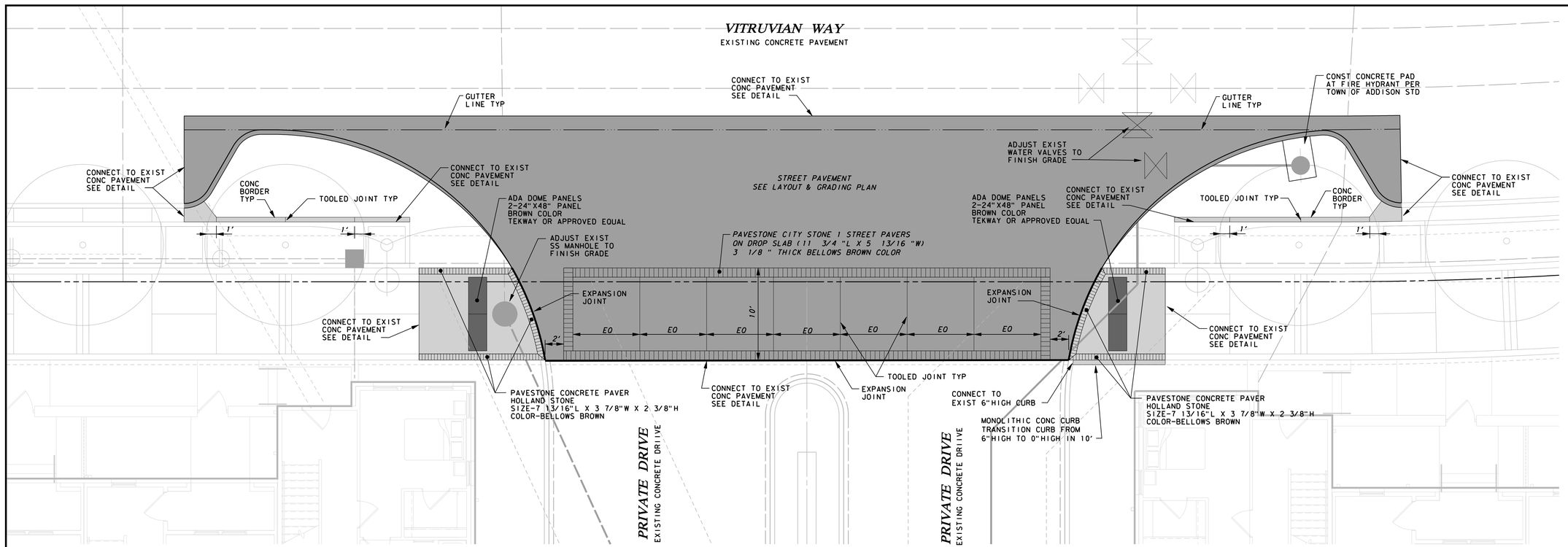
STREETSCAPE PAVING DETAILS

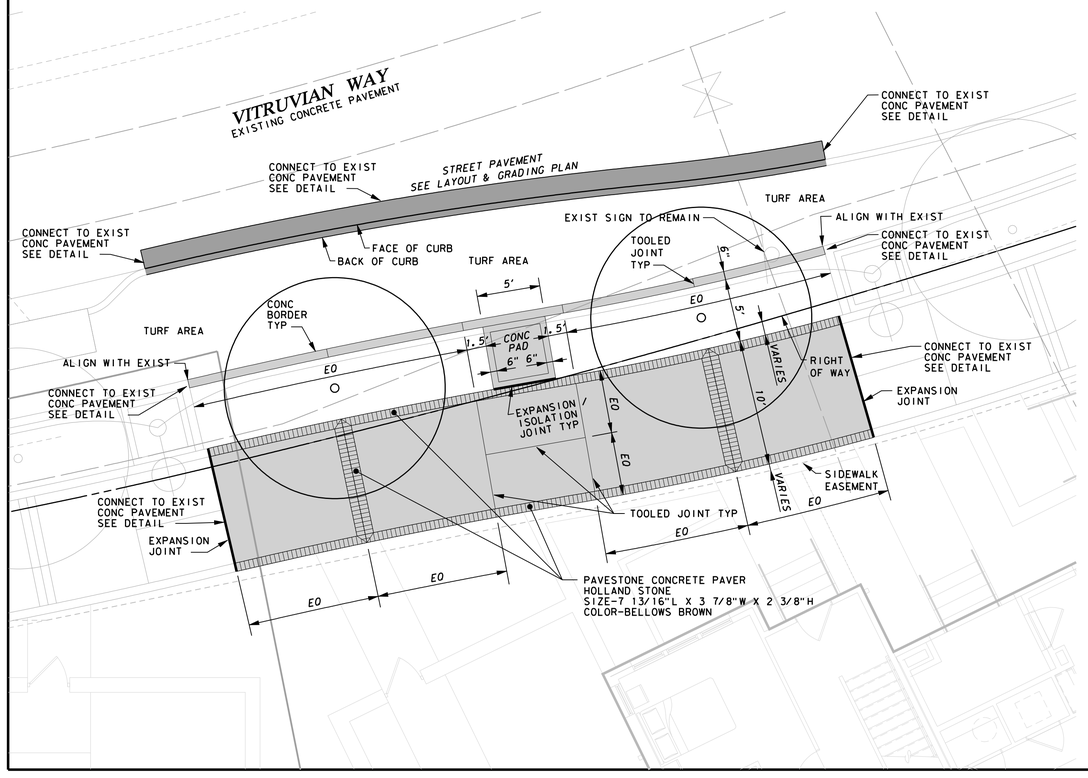
BELLA LANE

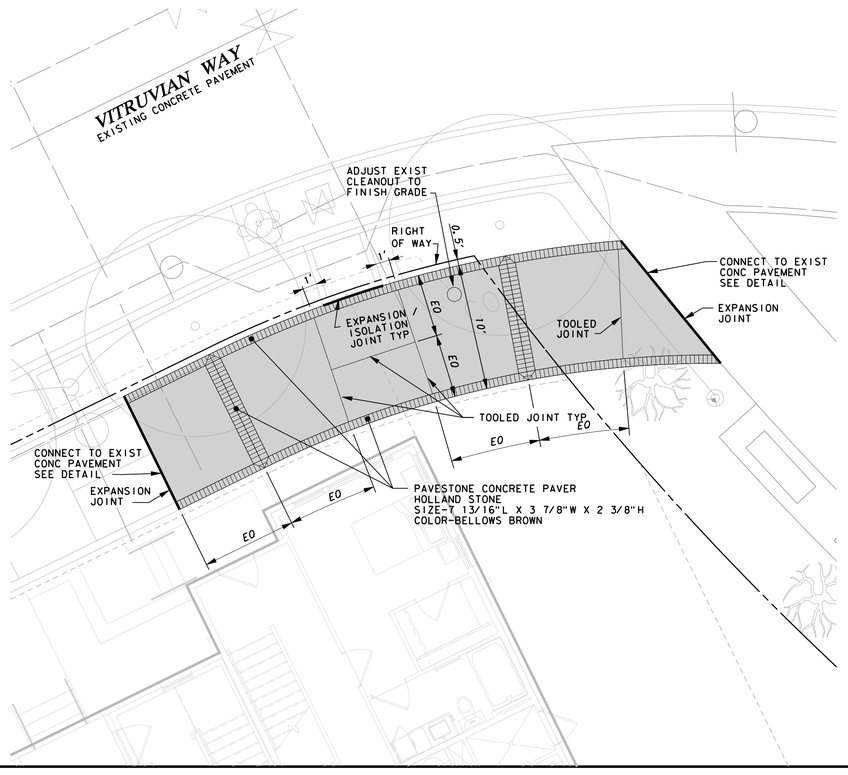
DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	APR 04, 2023	AS NOTED		14

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

TOWN PROJECT # 2022-05-C







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STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

TOWN OF ADDISON, TEXAS

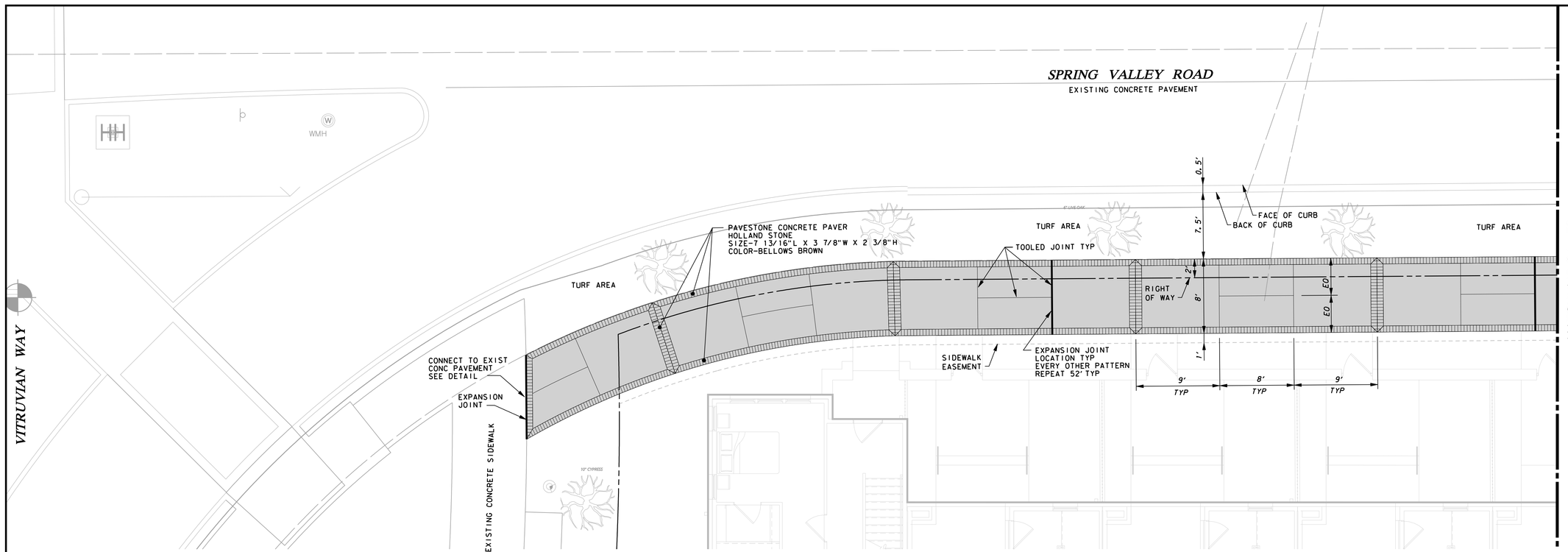
STREETSCAPE PAVING DETAILS

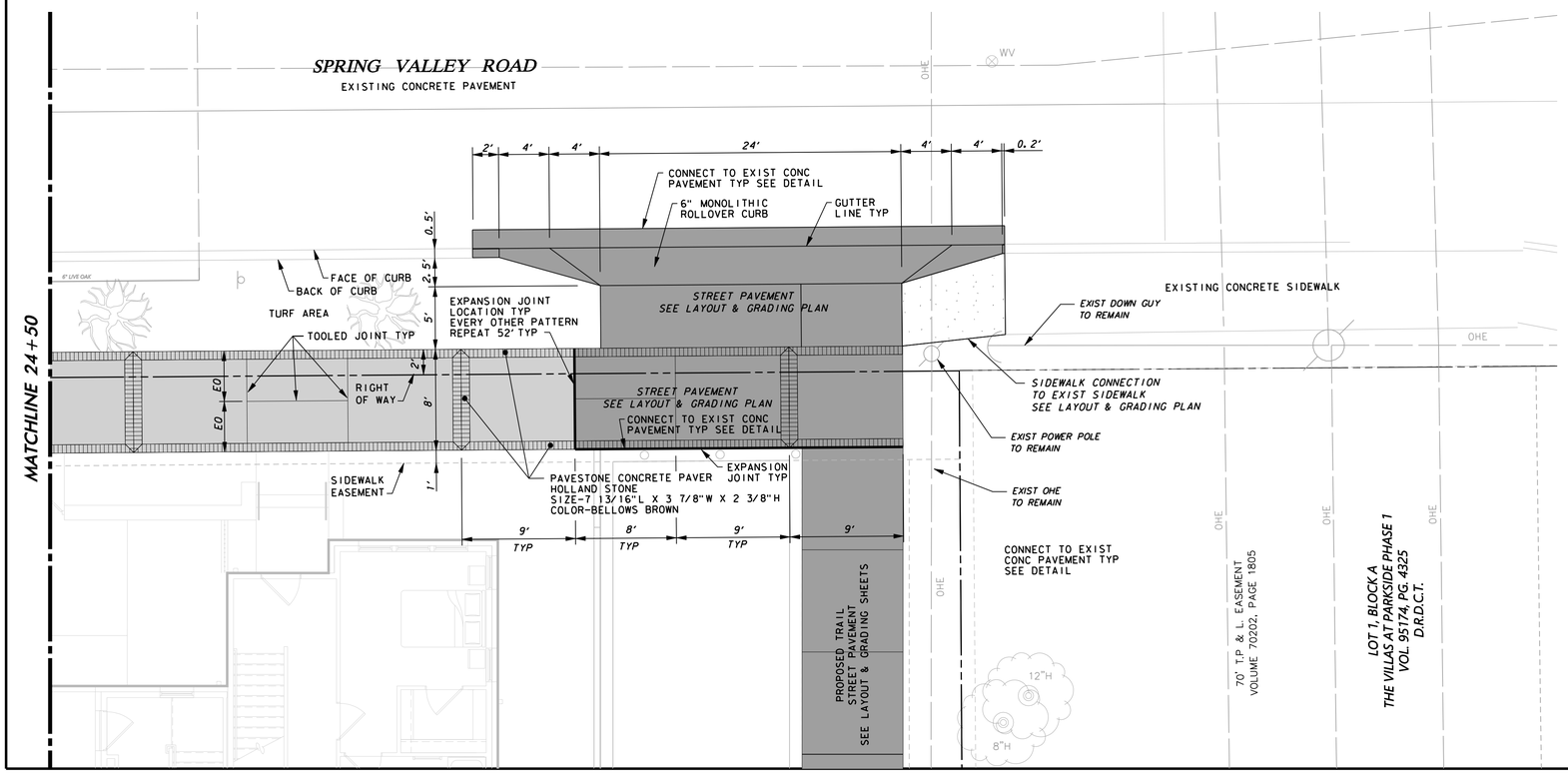
VITRUVIAN WAY

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	APR 04, 2023	AS NOTED		15

TOWN PROJECT # 2022-05-C

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





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STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

TOWN OF ADDISON, TEXAS

STREETSCAPE PAVING DETAILS

SPRING VALLEY ROAD

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	APR 04, 2023	AS NOTED		16

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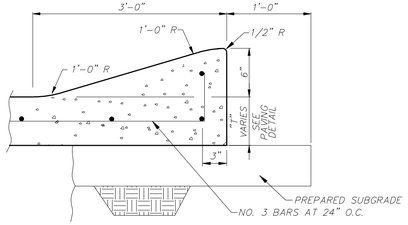
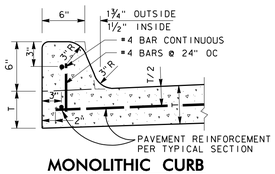
TOWN PROJECT # 2022-05-C



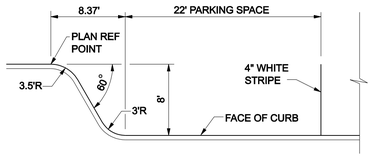
6" MONOLITHIC ROLLOVER CURB

NOT TO SCALE



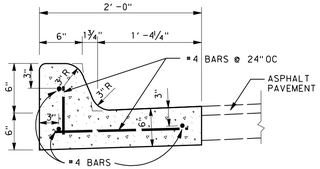
MONOLITHIC CURB

NOT TO SCALE



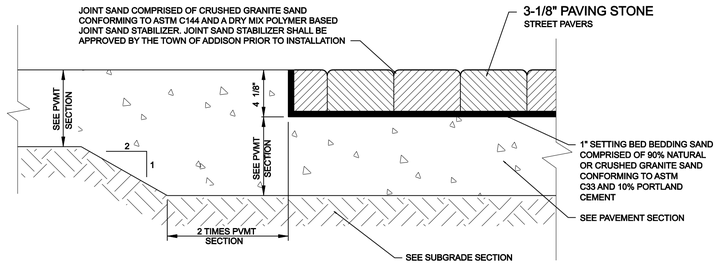
TYPICAL PARALLEL PARKING TRANSITION

NOT TO SCALE



6" CURB AND GUTTER

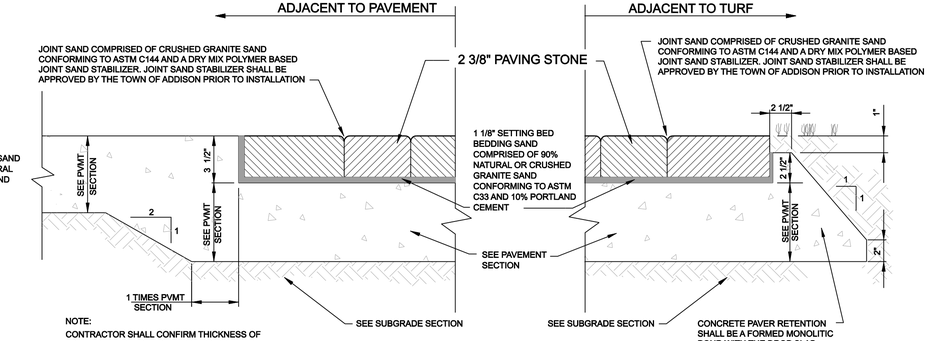
NOT TO SCALE



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

STREET PAVERS ON CONCRETE DROP SLAB

NOT TO SCALE

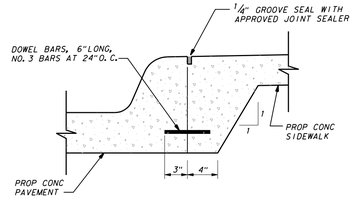


NOTE:
CONTRACTOR SHALL CONFIRM THICKNESS OF FINAL PAVER SELECTION PRIOR TO POURING DROP SLABS IN THE SIDEWALKS

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

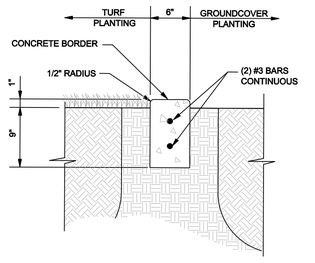
PAVERS ON CONCRETE DROP SLAB

NOT TO SCALE



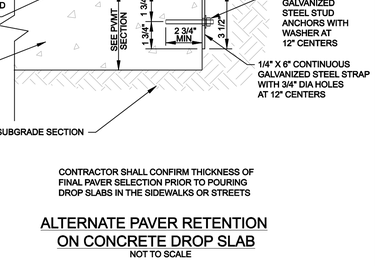
JOINT DETAIL FOR SIDEWALK ADJACENT TO CURB

NOT TO SCALE



CONCRETE BORDER

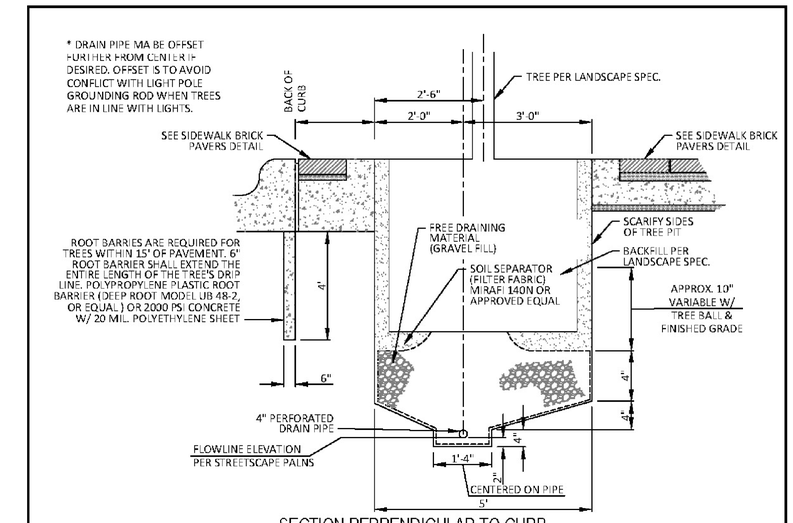
NOT TO SCALE



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

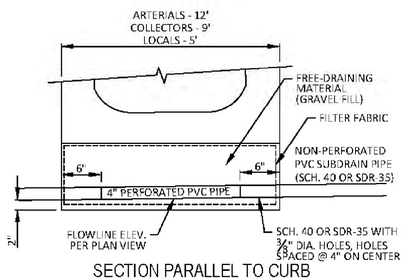
ALTERNATE PAVER RETENTION ON CONCRETE DROP SLAB

NOT TO SCALE



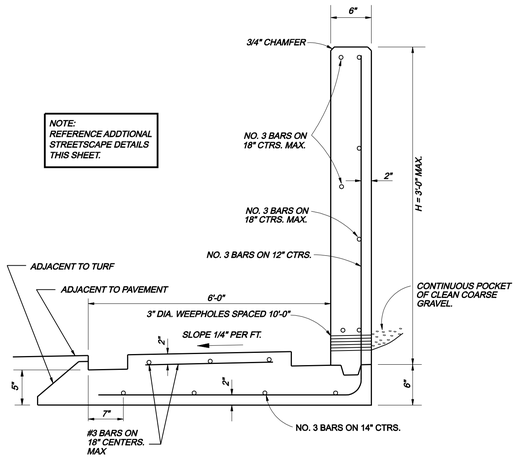
SECTION PERPENDICULAR TO CURB

N.T.S



SECTION PARALLEL TO CURB

N.T.S



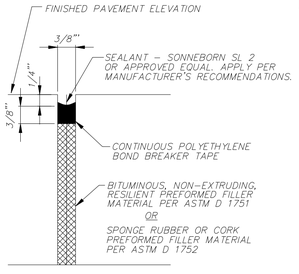
NOTE:
REFERENCE ADDTIONAL STREETSCAPE DETAILS THIS SHEET.

TYPE 6 RETAINING WALL COMBINATION CANTILEVER & WALK

NOT TO SCALE
(WALL GREATER THAN H=3'-0" REQUIRES SPECIAL ENGINEERING ANALYSIS)

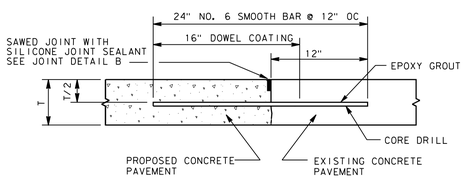
GENERAL NOTES FOR RETAINING WALLS, ALL TYPES (U.N.O.)

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.



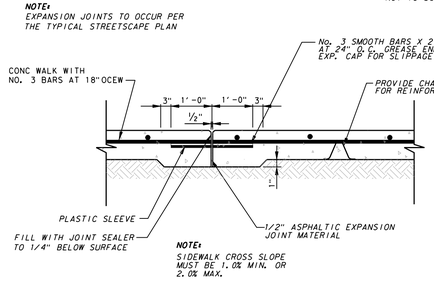
EXPANSION / ISOLATION JOINT SEALANT

NOT TO SCALE



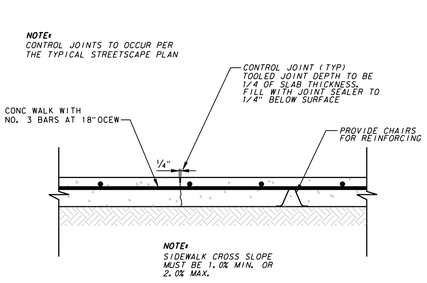
PROPOSED TO EXISTING CONCRETE PAVEMENT

NOT TO SCALE



STREETSCAPE SIDEWALK EXPANSION JOINT

NOT TO SCALE



STREETSCAPE SIDEWALK CONTROL JOINT

NOT TO SCALE

ADDISON PUBLIC WORKS & ENGINEERING SERVICES

TREE DRAIN LINE

STANDARD CONSTRUCTION DETAILS
STORM DRAINAGE

DATE:	REV DATE:	SHEET:
JANUARY 2022	-	SD-036

BRUCE F. DUNNE 62654 LICENSED PROFESSIONAL ENGINEER 04/04/23

NO.	REVISION	BY	DATE

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

STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

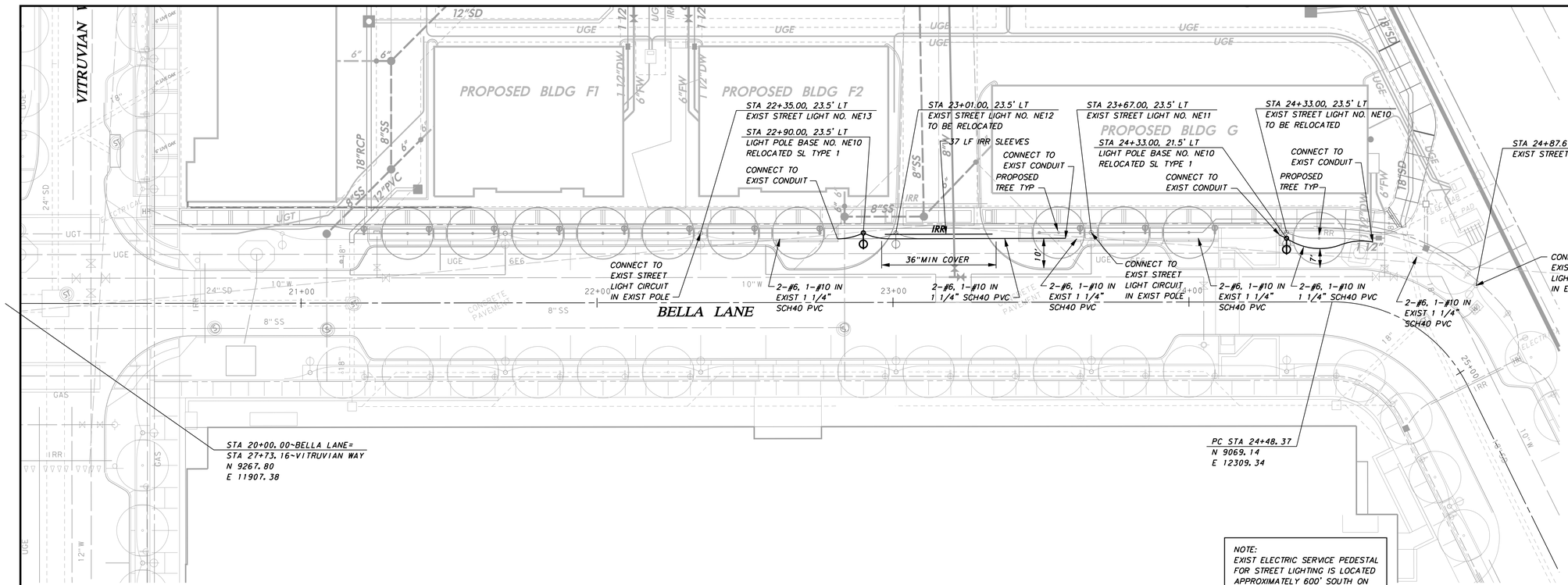
TOWN OF ADDISON, TEXAS

STREETSCAPE PAVING DETAILS

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	APR 04, 2023	AS NOTED		17

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

TOWN PROJECT # 2022-05-C



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 LUMINARE ON 11'-8" POLE, COLOR BEGA OLD SILVER BEGA FIXTURE 9701 MH-V240-BEGA OLD SILVER OR APPROVED EQUAL BEGA POLE 110BHR-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.

STATE OF TEXAS
BRUCE F. DUNNE
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PROFESSIONAL ENGINEER
04/04/23

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STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

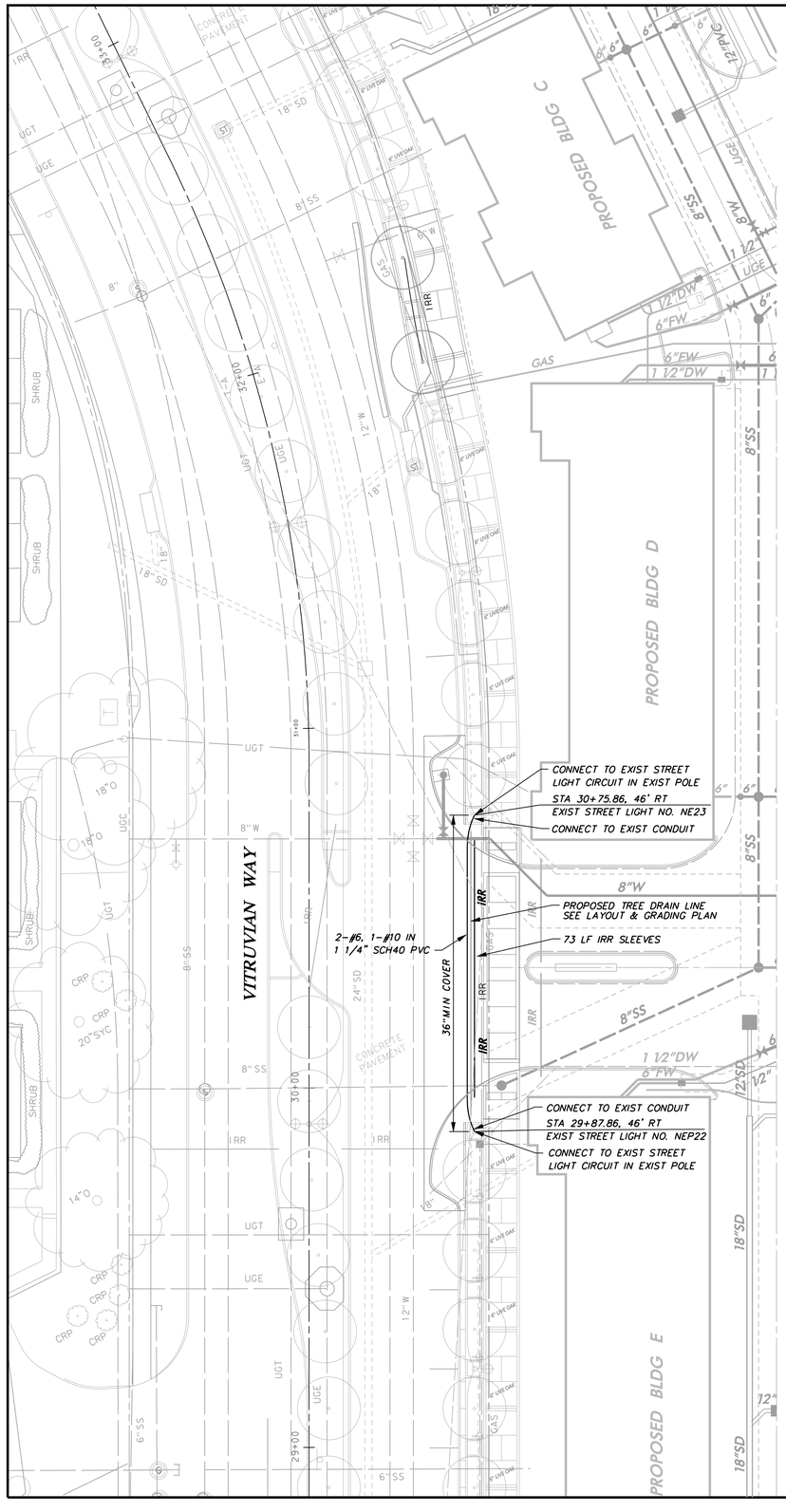
TOWN OF ADDISON, TEXAS

STREET LIGHT & CONDUIT PLAN
BELLA LANE

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	APR 04, 2023	AS NOTED		18

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

TOWN PROJECT # 2022-05-C



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

NORTH

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

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STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

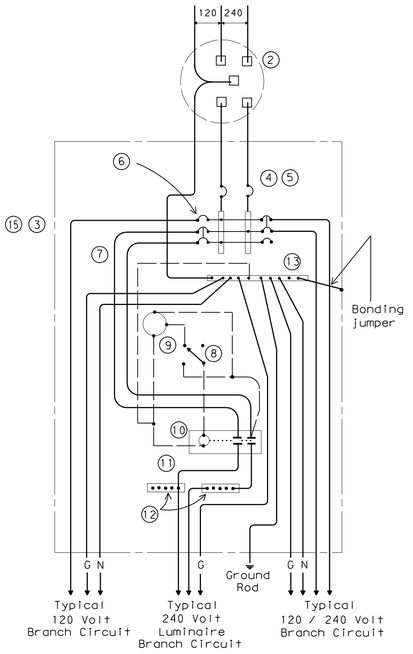
TOWN OF ADDISON, TEXAS

STREET LIGHT & CONDUIT PLAN
VITRUVIAN WAY

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	APR 04, 2023	AS NOTED		19

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

TOWN PROJECT # 2022-05-C



SCHEMATIC LEGEND

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

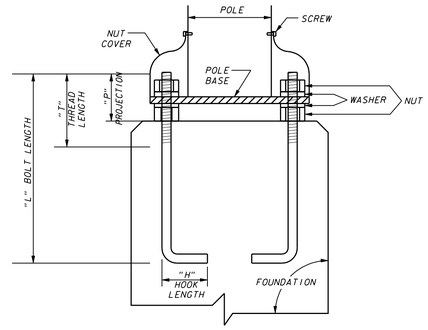
———— Control Wiring
— — — Equipment grounding conductor always required
—— N —— Neutral Conductor (for 120 volt loads only)
—— G —— Power Wiring

SCHEMATIC TYPE D
120/240 VOLTS - THREE WIRE

TYPE D SERVICE NOTES

Photocell and lighting contactor shall be located in the same UL type 3R enclosure with load center. There shall be a window on each side of enclosure to allow operation of photocell. Both photocell, contactor and breaker area shall have dead front trim. Type D load center with lighting controls shall have power distribution blocks for a minimum of 10, #4 conductors.

EXISTING ELECTRIC SERVICE PEDESTAL SCHEMATIC

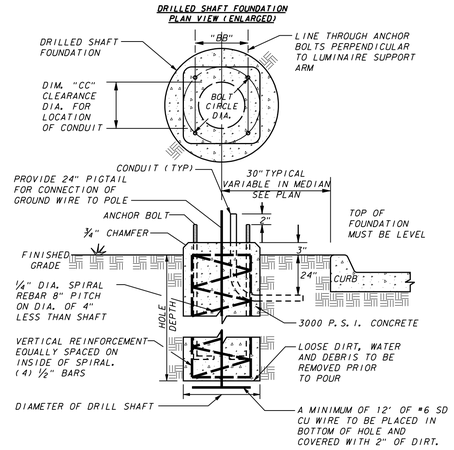


NOTES:
1. USE ANCHOR BOLT TEMPLATE FURNISHED BY POLE MANUFACTURER FOR ANCHOR BOLT ALIGNMENT.
2. ALL EXPOSED HARDWARE TO BE STAINLESS STEEL.

TYPE NO.	BOLT DIA. (IN.)	LENGTH "L" (IN.)	HOOK "H" (IN.)	THREAD "T" (IN.)	PROJECTION "P" (IN.)
45	¾	17	3 ½	5 ½	3 ½
47	1	36	4	6	4

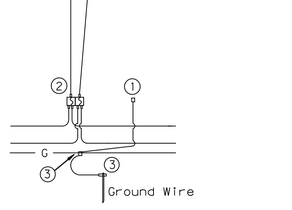
SUPPLY 2 NUTS & 2 WASHERS WITH EACH BOLT

ANCHOR BOLT DETAIL

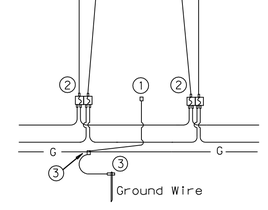


TYPE NO.	SHAFT DEPTH	SHAFT DIA.	BOLT CIRCLE DIA.	ANCHOR TYPE NO.	CONDUIT CLEARANCE DIM. "CC"	DISTANCE ACROSS BOLTS DIM "BB"
1	60"	18"	9 ½"	45	4 ½"	6 ¾"
2	60"	18"	9 ½"	45	4 ½"	6 ¾"
3	72"	24"	11 ½"	47	7 ½	8 ⅜"
4	72"	24"	11 ½"	47	7 ½	8 ⅜"

DRILLED SHAFT FOUNDATION



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



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

NOTES:

① Use threaded, copper or tin-plated copper, pole bonding connector, sized appropriately for conductors.
② Double-Pole inline fuse and connector, sized appropriately for conductors. Bussmann TRON HEY with 2A0660 & 2A0661 Insulating Boots and LIMITRON KTK-R fast acting fuses or equal - 100W fixture use 1 amp fuses, 400 W fixture use 4 amp fuses.
③ Split Bolt or other connector.

ELECTRICAL CONNECTION DETAIL

STATE OF TEXAS
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04/04/23

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STREETSCAPE & TRAIL IMPROVEMENTS

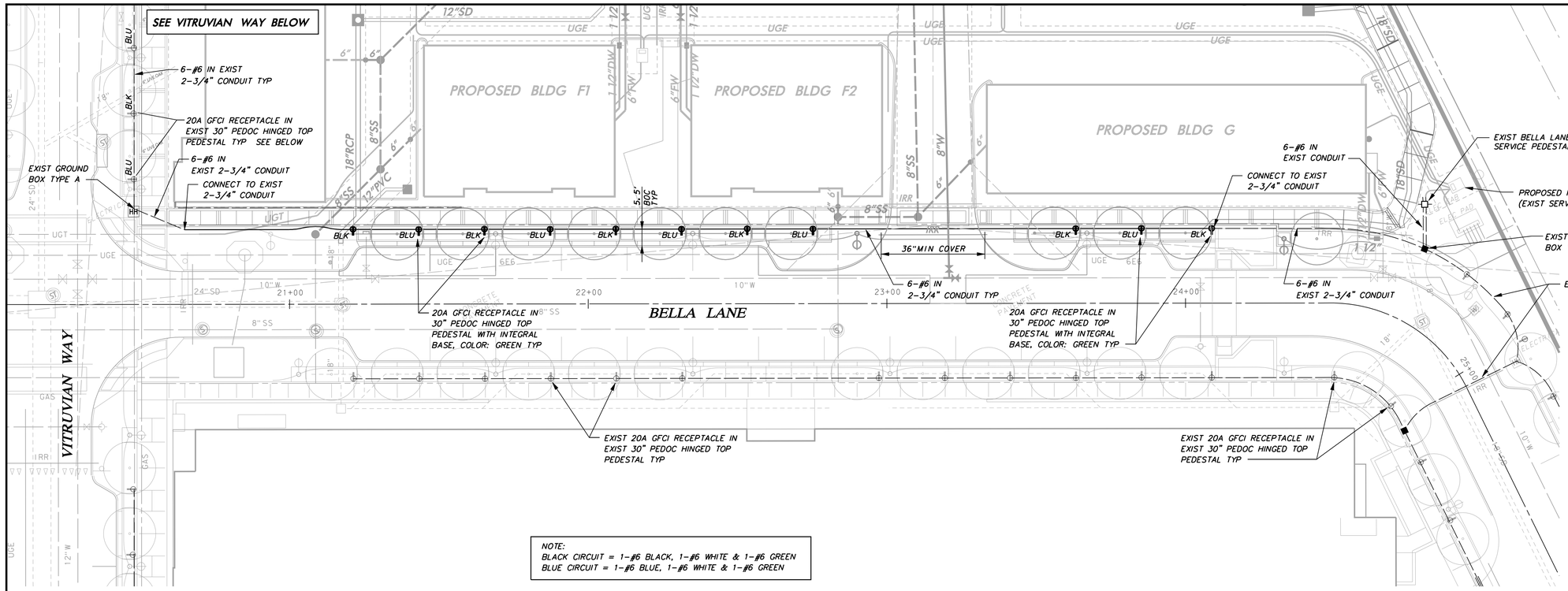
VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

TOWN OF ADDISON, TEXAS

STREET LIGHT DETAILS

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	APR 04, 2023	AS NOTED		20

TOWN PROJECT # 2022-05-C

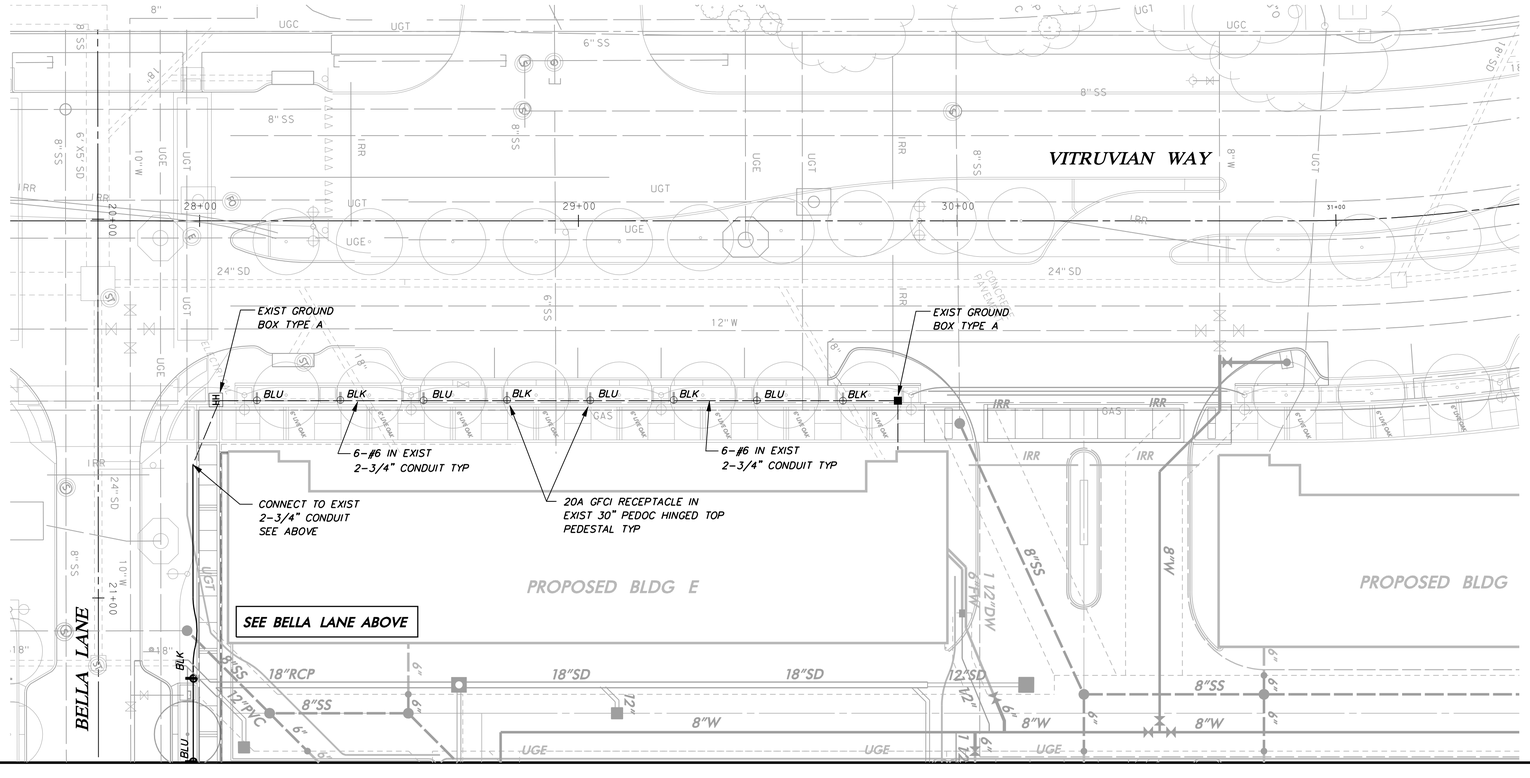


LEGEND

	PROPOSED	FUTURE
GROUND BOX	■	□
PVC CONDUIT	———	·····
TRANSFORMER ON PAD	* ▲	
STREET LIGHT – TYPE 1		
PEDOC OUTLET BOX PEDESTAL 30" HEIGHT SINGLE GANG HINGED TOP WITH INTEGRAL BASE COLOR: GREEN 20A GFCI RECEPTACLE HUBBLE GFR5362SGW OR EQ	ϕ	ϕ

* PROVIDED BY POWER COMPANY

NOTE:
BLACK CIRCUIT = 1–#6 BLACK, 1–#6 WHITE & 1–#6 GREEN
BLUE CIRCUIT = 1–#6 BLUE, 1–#6 WHITE & 1–#6 GREEN



HOLIDAY LIGHTING & CONDUIT NOTES

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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.

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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	APR 04, 2023	AS NOTED		21

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

TOWN PROJECT # 2022-05-C

GENERAL ELECTRICAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2008 NATIONAL ELECTRICAL CODE (N.F.P.A. 70), THE 2007 NATIONAL ELECTRIC 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 OF LOSS OR LIFE, BE AVOIDED.
4. ALL CHANGES OR VARIATIONS NECESSITATED BY UNFORESEEN CONDITIONS SHALL BE VERIFIED WITH ENGINEER BEFORE SUCH CHANGES OR VARIATIONS ARE UNDERTAKEN.
5. EACH CONTRACTOR SHALL MAKE HIMSELF & HIS TRADESMEN FAMILIAR WITH THE COMPLETE SET OF DRAWINGS AND SHALL BE PARTICULARLY AWARE OF ANY AND ALL CONFLICTS REGARDING HIS TRADE AND OTHER TRADES OCCUPYING THE SAME AREA; I.E. PIPES, DUCTS, CONDUIT, ETC. WHEN INSTALLING ITEMS OF HIS TRADE EACH CONTRACTOR SHALL CONSULT WITH OTHER TRADES OCCUPYING THE SAME AREA AND THE ENGINEER TO DETERMINE THE BEST SOLUTION TO THE CONFLICT. ALL DECISIONS BY THE ENGINEER SHALL BE FINAL AND BINDING TO ALL PARTIES CONCERNED.
6. THE LOCATION OF ALL PIPES, OUTLETS, FIXTURES, ETC, SHOWN ON PLANS IS THE DESIGN INTENT. ANY REVISION OR ADJUSTMENT SHALL BE COORDINATED AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. THE ENGINEER RESERVES THE RIGHT TO MAKE REASONABLE CHANGES TO THE INDICATED LOCATIONS BEFORE WORK IS ROUGHED-IN WITHOUT ADDITIONAL CHARGE TO THE OWNER.
7. FINAL CONNECTIONS TO EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH ACTUAL EQUIPMENT SUPPLIED.
8. VERIFY EXACT LOCATIONS OF EXISITING AND NEW UNDERGROUND UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICES (CONDUIT AND/OR WIRE), PULLBOXES, TRANSFORMER PADS, SAWCUTTING AND PATCHING, CONCRETE/PAVING, ETC. AS REQUIRED. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS.
9. CONTRACTOR SHALL BE RESPONSIBILE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING OR FACTORY WIRING IN EQUIPMENT.
10. ALL COST INCURRED BY THE ACCEPTANCE OF SUBSTITUTIONS SHALL BE BORNE BY THE CONTRACTOR. PROOF FOR THE EQUALITY OF SUBSTITUTIONS SHALL BE BY THE CONTRACTOR.
11. ALL ELECTRICAL ITEMS SHALL BE U.L. LABELED AND LISTED FOR THEIR SPECIFIC USE.
12. THE ELECTRICAL CONTRACTOR SHALL PAY ALL COSTS REQUIRED BY THE LOCAL UTILITY COMPANY PROVIDING SERVICES INDICATED. ELECTRICAL CONTRACTOR SHALL COORDINATE METERING, TRANSFORMER PAD, CONNECTION POINTS AND GROUNDING WITH UTILITY COMPANY.
13. ALL SERVICE ENTRANCE EQUIPMENT, INCLUDING BUT NOT LIMITED TO ANY MAIN DISCONNECT SWITCH, PANEL, OR SWITCHBOARD, SHALL BE LISTED AND LABELED AS "SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT."
14. THE ELECTRICAL SYSTEMS SHALL BE SOLIDLY GROUNDED. ALL NON-CURRENT CARRYING METAL PARTS OF THE ELECTRICAL SYSTEM, I.E., RACEWAYS, EQUIPMENT ENCLOSURES, FRAMES, JUNCTION AND OUTLET BOXES AND OTHER CONDUCTIVE ITEMS IN CLOSE PROXIMITY WITH ELECTRICAL CIRCUITS, SHALL BE GROUNDED TO PROVIDE A LOW IMPEDANCE PATH FOR POTENTIAL GROUND FAULTS.
15. EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED IN ALL RACEWAYS AND CABLES.
16. THE NEUTRAL AND GROUND BUS SHALL BE BONDED TOGETHER AT ALL SERVICE EQUIPEMENT.
17. CONDUIT SHALL BE RUN PARALLEL OR AT RIGHT ANGLES TO WALLS, CEILINGS, AND STRUCTURAL MEMBERS.
18. ALL RACEWAYS SHALL BE INSTALLED CONCEALED EXCEPT IN UNFINISHED SPACES WHERE INDICATED ON DRAWINGS.
19. ALL EMPTY CONDUITS SHALL BE EQUIPPED WITH A PULL 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):

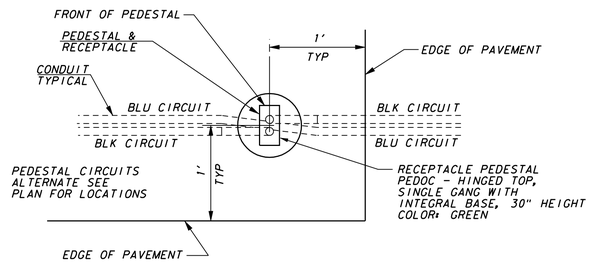
120/208 VOLT SYSTEM	120/240 VOLT SYSTEM
PHASE A - BLACK	LINE 1 - BLACK
PHASE B – RED	LINE 2 - BLUE
PHASE C – BLUE	NEUTRAL - WHITE
NEUTRAL – WHITE	GROUND - GREEN
GROUND - GREEN	

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

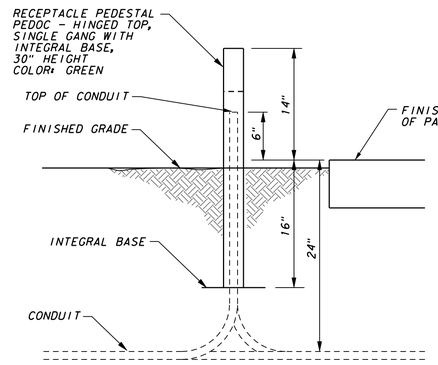
Panel Schedule: Single Phase — Date: 11/21/2012
Project: Bella Lane North Pedestal - Northeast of VP103
Panel Name: BLNP - Bella Lane North Pedest — Volts<L-L>: 240 — Main Bkr: 200 Amps
Mfg: — Volts<L-G>: 120 — Main Lugs: Amps
Model: — Phase: 1 — Panel AIC: 22,000 Amps
Description: — Wires: 3 — Neutral 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 L1	Load VA L2	Pos. No.	Bkr No.	Trip Amps	No. Bkr Poles	Serves
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	Spare
11			1	Space		1920					
						1920	12		20	1	Spare
CONTACTOR FEED SUB-PANEL											
1		20	1	BL SE Black Tree Outlets	1750						
					1750		2		20	1	BL SE Blue Tree Outlets
3		20	1	BL SW 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	Spare
11		20	1	Spare		1750					
						1750	12		20	1	Spare
				Connected VA per Leg =	20760	20760					
				Total Amps per Leg =	173	173					

EXISTING BLN PEDESTAL PANEL SCHEDULE



TYPICAL LOCATION RECEPTACLE PEDESTAL
NOT TO SCALE



TYPICAL PEDESTAL SECTION
NOT TO SCALE

STATE OF TEXAS — BRUCE F. DUNNE — 62654 — LICENSED PROFESSIONAL ENGINEER — 04/04/23

NO.	REVISION	BY	DATE

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

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

HOLIDAY LIGHT DETAILS

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
ICE	ICE	APR 04, 2023	AS NOTED		22

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

TOWN PROJECT # 2022-05-C

I. GENERAL REQUIREMENTS FOR ALL ELECTRICAL WORK

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

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

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

SUBMITTALS:

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

II. CONDUIT

A. MATERIALS

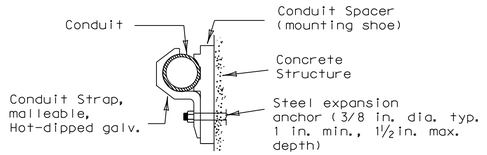
1. Conduit and fittings shall be UL Listed for the intended use shown on plan sheets.
2. Conduit shall be the type shown by descriptive code or shown elsewhere on the plans. Substitution of the various types of conduits will not be permitted. All flexible conduit in rigid metallic conduit (RMC) systems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

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

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

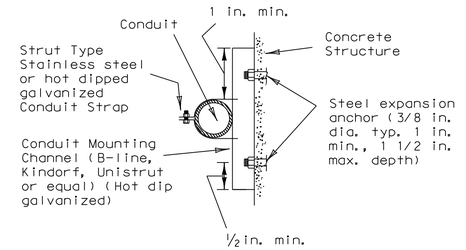
B. CONSTRUCTION METHODS

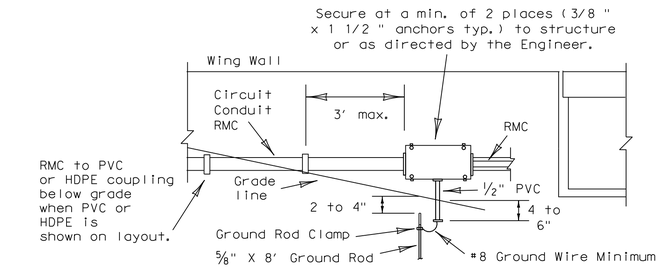
1. Conduit in structures shall have expansion fittings at structure expansion joints. All straight runs of RMC conduit exposed on structures such as bridges shall have expansion joints installed at maximum intervals of 150 feet. Expansion joints shall be installed so they allow for movement of the conduit.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



CONDUIT MOUNTING OPTIONS

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

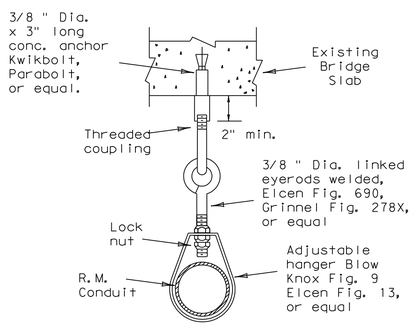




TYPICAL CONDUIT ENTRY TO BRIDGE STRUCTURE DETAIL

NOTES

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



CONDUIT HANGER DETAIL

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

5/03 Revision

1 Revised notes.

STANDARD PLANS
TEXAS DEPARTMENT OF TRANSPORTATION
Traffic Operations Division

ELECTRICAL DETAILS-CONDUIT

ED(1)-03

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

REVISIONS	STATE DISTRICT	FEDERAL REGION	FEDERAL AID PROJECT	SHEET
4-98		6		23
12-00	COUNTY		CONTROL SECTION JOB	HIGHWAY
3-03				
5-03				

I. ELECTRICAL CONDUCTORS

A. MATERIALS

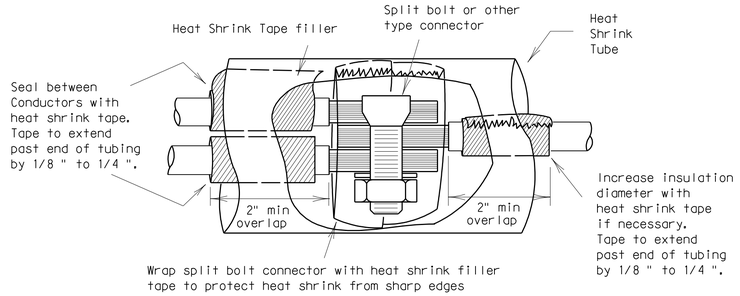
1. Insulated conductors shall be NEC Type XHHW. Insulated conductors shall be color coded in accordance with the NEC, articles 200, 250, and 310; i.e. insulation of grounded conductors (neutrals) shall be white. Grounding conductors (ground wires) shall be bare or insulation shall be green. Insulation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

B. CONSTRUCTION METHODS

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

SPLICE OPTION 3

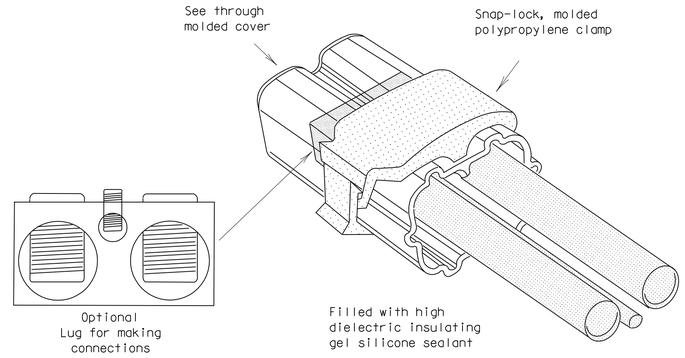
SPLIT BOLT



SPLICE OPTION 4

GELCAP

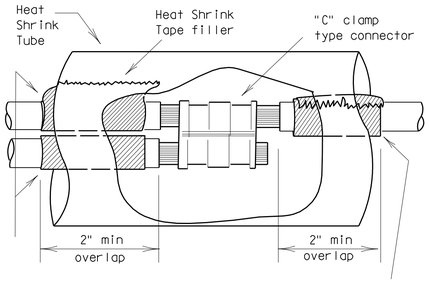
GelCap shall be sized and installed according to manufacturers specifications



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

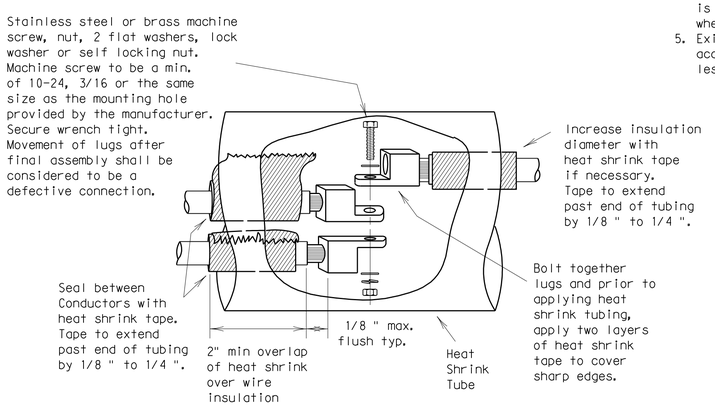
C. TEMPORARY WIRING

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



SPLICE OPTION 1

C-CLAMP



SPLICE OPTION 2

BOLTED WIRE LUGS

STANDARD PLANS
TEXAS DEPARTMENT OF TRANSPORTATION
Traffic Operations Division

ELECTRICAL DETAILS-CONDUCTORS

ED(2)-03

DN-KB	CK-JW	DW-DN	CK-GC	NEG NO.=

REVISIONS	STATE DISTRICT	FEDERAL REGION	FEDERAL AID PROJECT	SHEET
10-93		6		24
4-98	COUNTY		CONTROL SECTION JOB	HIGHWAY
12-00				
3-03				

II. GROUND RODS

A. MATERIALS

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

B. CONSTRUCTION METHODS

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

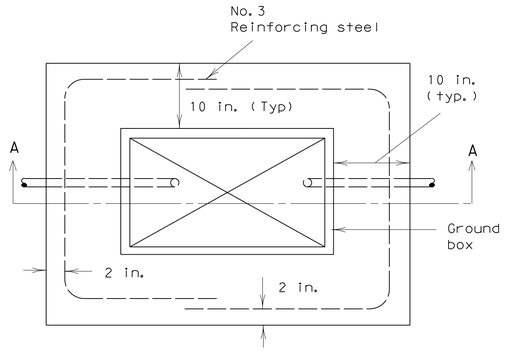
III. GROUND BOX

A. MATERIALS

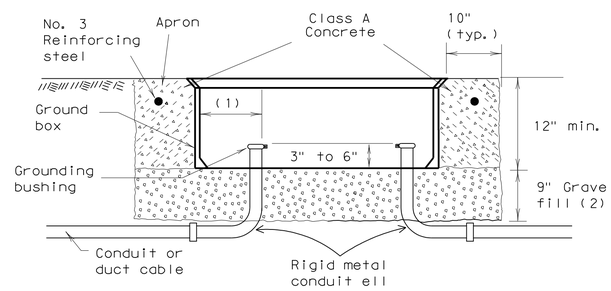
1. Ground boxes 16x30x24 inches (WxLxD) or smaller shall be polymer concrete of the type required by the descriptive code shown elsewhere. Larger ground boxes shall be as shown elsewhere in the plans.
2. All ground boxes and covers shall be permanently marked either by impress or by permanent ink, with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

B. CONSTRUCTION METHODS

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



PLAN VIEW

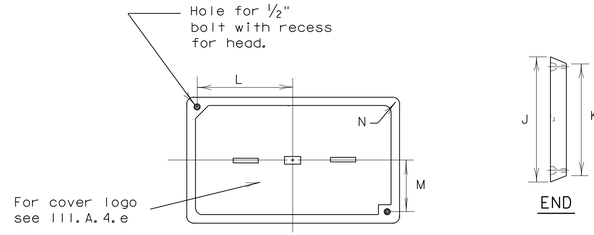


SECTION A - A

APRON FOR GROUND BOXES

(Where required)

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



PLAN VIEW

END

SIDE

GROUND BOX COVER

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

5/03 Revision

1 Revised notes.

STANDARD PLANS
TEXAS DEPARTMENT OF TRANSPORTATION
Traffic Operations Division

ELECTRICAL DETAILS- GROUND BOXES

ED(3)-03

DN - KB	CK - JW	DW - DN	CK - GC	MEG NO.s

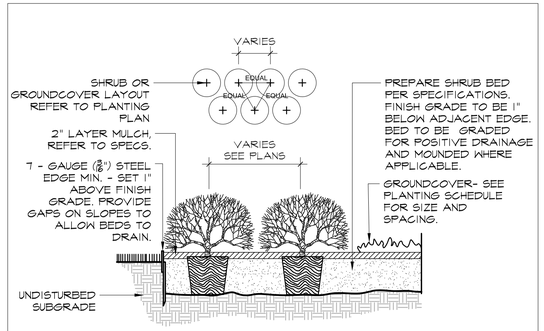
REVISIONS	STATE DISTRICT	FEDERAL REGION	FEDERAL AID PROJECT	SHEET
4-98				
12-00		6		25
3-03	COUNTY		CONTROL / SECTION / JOB	HIGHWAY
5-03				

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 'SDLN' CATHEDRAL LIVE OAK	6" CAL. B&B/CONT.	14'-16'	8'		STRONG CENTRAL LEADER, MATCHED, FULL, WELL BRANCHED 7'-0" CLEAR TRUNK
11		PC	Pistacia chinensis CHINESE PISTACHE	4" CAL. B&B/CONT.	14'-16'	8'		STRONG CENTRAL LEADER, MATCHED, FULL, WELL BRANCHED 7'-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
4473 SQ FT		CA	Carex tumulicola BERKELEY SEDGE	1 GAL.	12"	12"	18"	NURSERY GROWN, WELL ROOTED, FULL TO CONTAINER

PLANT SCHEDULE - TRAIL

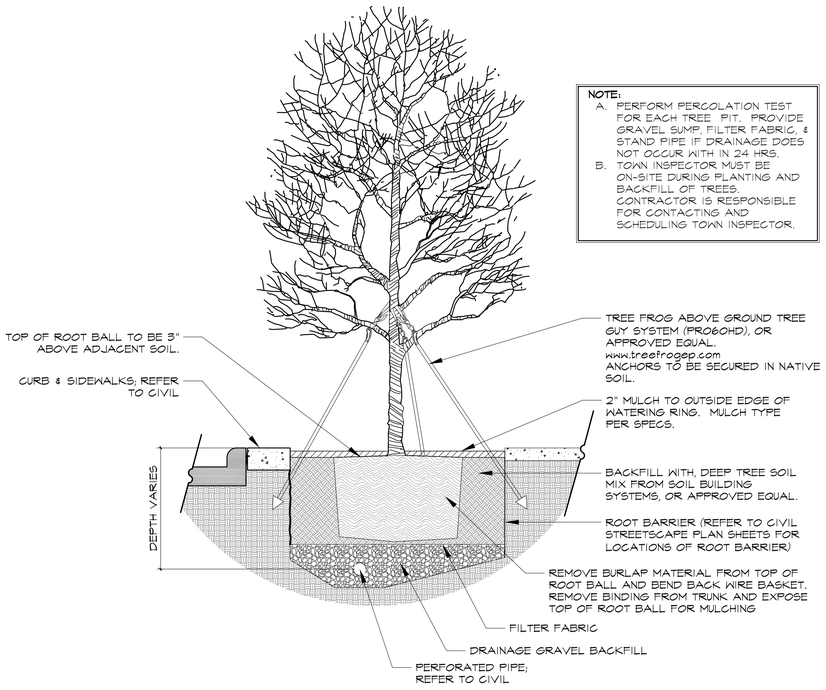
QTY.	SYMBOL	PLANT ABBR.	BOTANICAL NAME / COMMON NAME	MINIMUM SIZE	MINIMUM HEIGHT	MINIMUM SPREAD	MAXIMUM SPACING	COMMENTS
			SCREENING SHRUBS					
11		JV	Juniperus virginiana 'Taylor' TAYLOR JUNIPER	45 GAL.	8'-10'	3'-4'	30"	STRONG CENTRAL LEADER, MATCHED, FULL, WELL BRANCHED
			MEDIUM SHRUBS					
40		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 YAUPON	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
4171 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"

REGISTERED LANDSCAPE ARCHITECT — BRADLEY W. GOODMAN — 2279 — STATE OF TEXAS

01.19.2023

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

studioOutside
824 Exposition Avenue, Ste. 5
Dallas, Texas 75226
o214.954.7160
f214.954.7162

STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

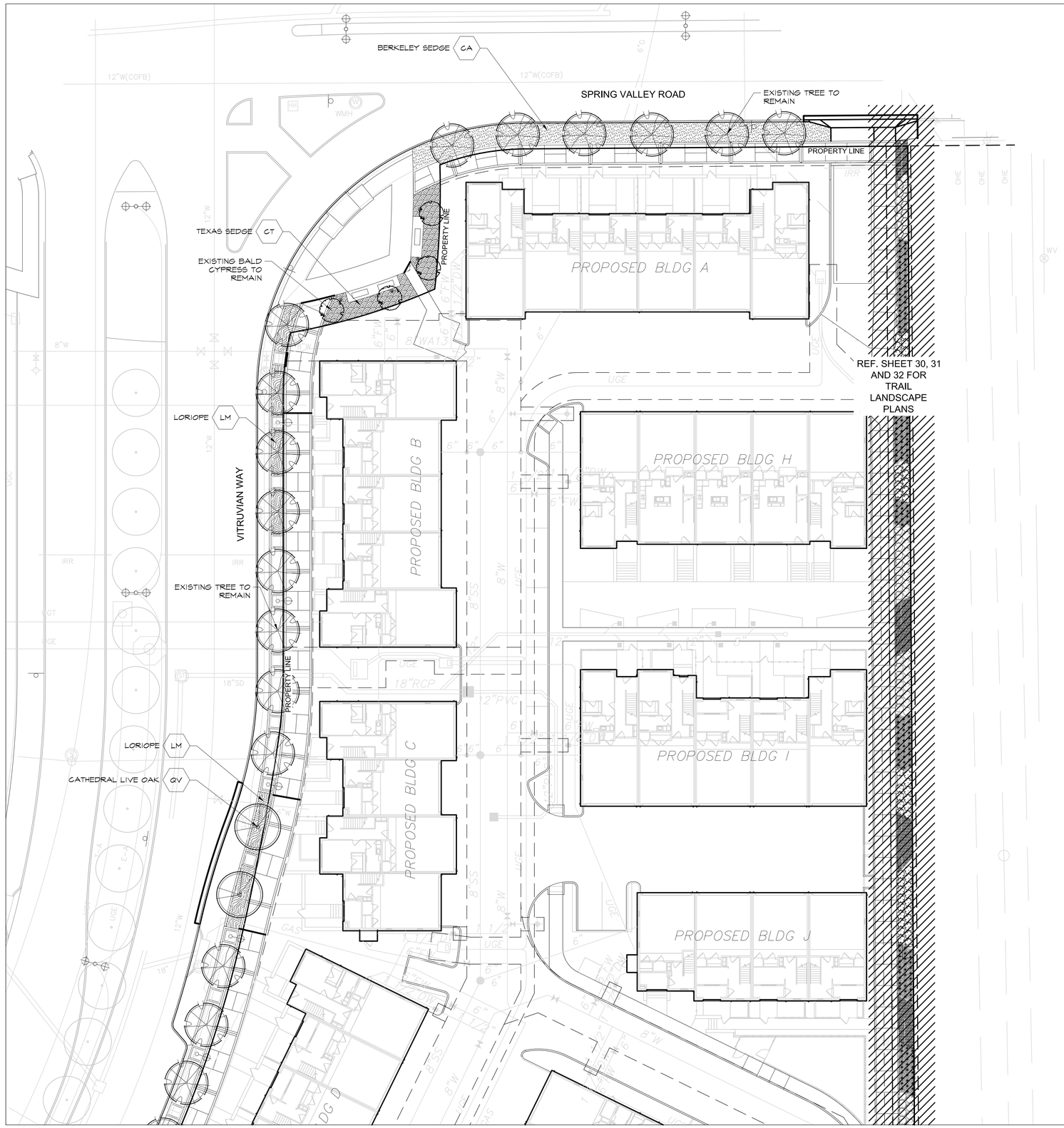
TOWN OF ADDISON, TEXAS

LANDSCAPE LEGEND & DETAILS

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

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

TOWN PROJECT # 2021-XXX



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

REGISTERED LANDSCAPE ARCHITECT
BRADLEY W. GOODMAN
2278
STATE OF TEXAS

01.19.2023

NORTH

0 10 20 30 40
SCALE: 1"=20'

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

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Dallas, Texas 75226
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f214.954.7162

STREETSCAPE & TRAIL IMPROVEMENTS

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

TOWN PROJECT # 2021-XXX

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

REGISTERED LANDSCAPE ARCHITECT
BRADLEY W. GOODMAN
2278
STATE OF TEXAS

01.19.2023

NORTH

0 10 20 30 40
SCALE: 1"=20'

NO.	REVISION	BY	DATE
	CITY RE-SUBMITTAL	SO	01/19/23
	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

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

TOWN PROJECT # 2021-XXX

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

VISIBILITY TRIANGLE

BERKELEY SEDGE CA

LIRIOPE LM

EXISTING TREE TO REMAIN

VITRUVIAN WAY

PROPOSED BLDG E

PROPOSED BLDG M

PROPOSED BLDG N

PROPOSED BLDG O

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

PROPOSED BLDG F1

PROPOSED BLDG F2

PROPOSED BLDG G

VISIBILITY TRIANGLE

CHINESE PISTACHE PC

LIRIOPE LM

BERKELEY SEDGE CA

BELLA LANE

REGISTERED LANDSCAPE ARCHITECT
BRADLEY W. GOODMAN
2278
STATE OF TEXAS

01.19.2023

NORTH

0 10 20 30 40
SCALE: 1"=20'

NO.	REVISION	BY	DATE
	CITY RE-SUBMITTAL	SO	01/19/23
	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

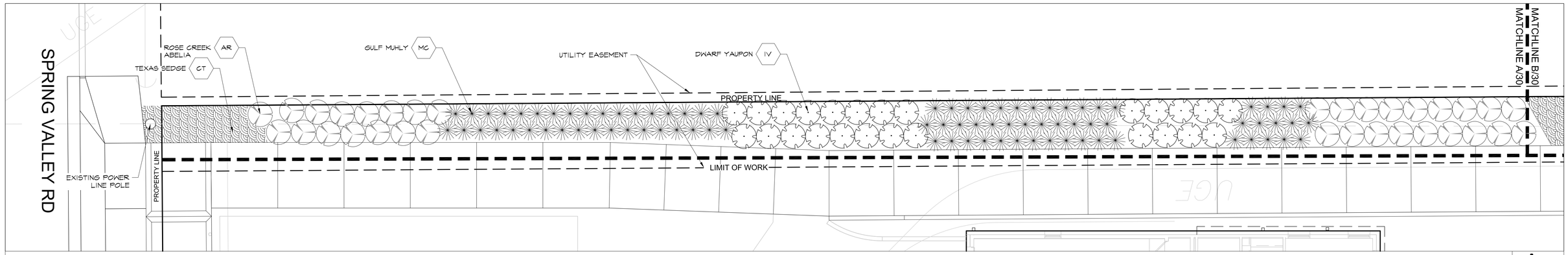
TOWN OF ADDISON, TEXAS

LANDSCAPE PLAN - SOUTH

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

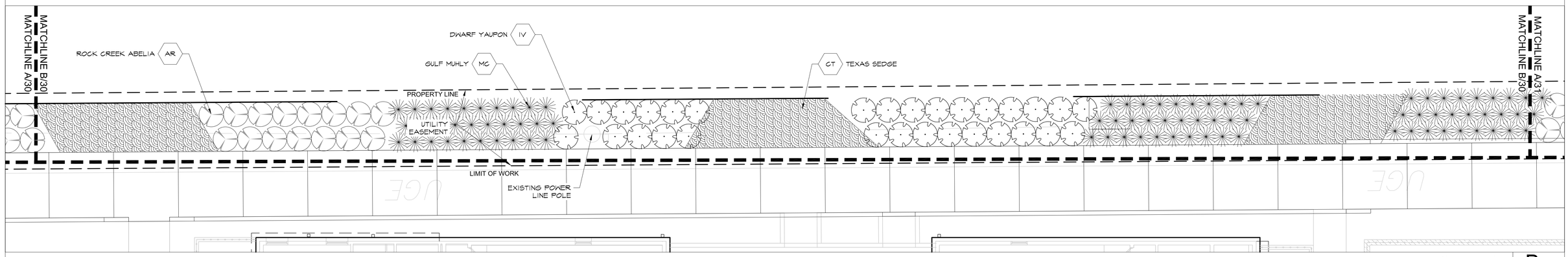
TOWN PROJECT # 2021-XXX

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



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 YAUPON
		ORNAMENTAL GRASSES & GROUNDCOVERS
	BG	Muhlenbergia capillaris GULF MUHLY
	CT	Carex texensis TEXAS SEDGE

REGISTERED LANDSCAPE ARCHITECT
BRADLEY W. GOODMAN
2278
STATE OF TEXAS

01.19.2023

NORTH

0 3 6 9 12
SCALE: 1"=6'

NO.	REVISION	BY	DATE
	CITY RE-SUBMITTAL	SO	01/19/23
	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

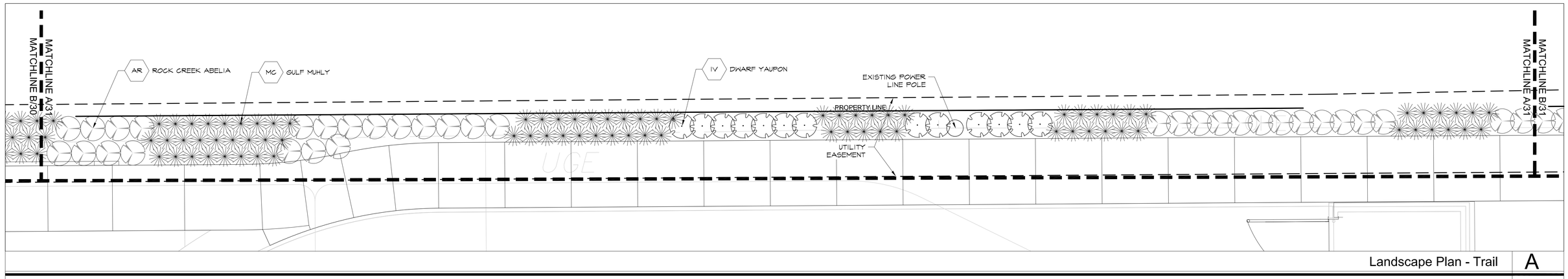
TOWN OF ADDISON, TEXAS

LANDSCAPE PLAN - TRAIL

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

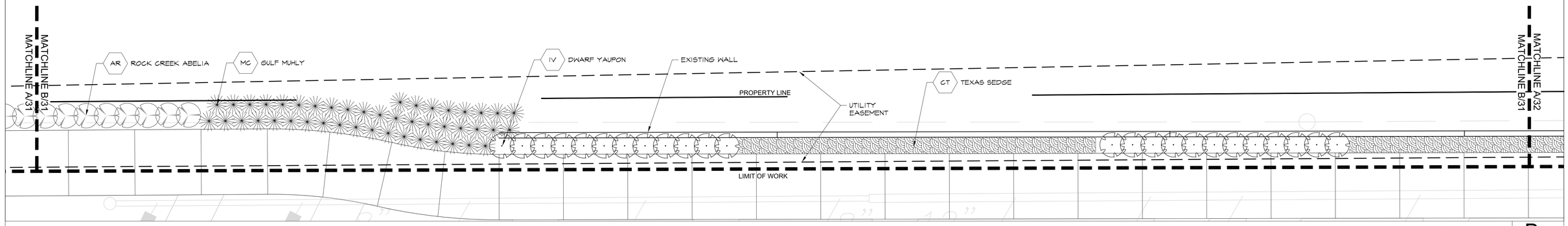
TOWN PROJECT # 2021-XXX

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



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 YAUPON
		ORNAMENTAL GRASSES & GROUNDCOVERS
	BG	Muhlenbergia capillaris GULF MUHLY
	CT	Carex texensis TEXAS SEDGE

REGISTERED LANDSCAPE ARCHITECT
BRADLEY W. GOODMAN
2279
STATE OF TEXAS

01.19.2023

NORTH

0 3 6 9 12
SCALE: 1"=6'

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

studioOutside
824 Exposition Avenue, Ste. 5
Dallas, Texas 75226
o214.954.7160
f214.954.7162

STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

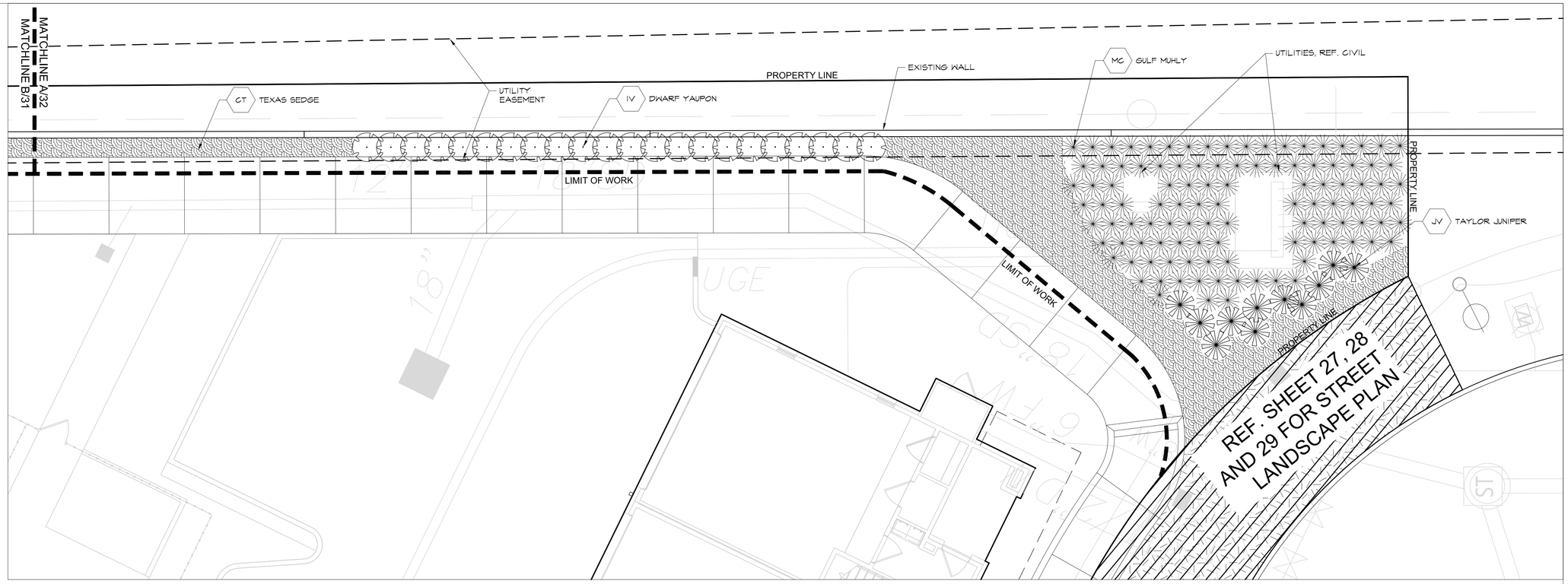
TOWN OF ADDISON, TEXAS

LANDSCAPE PLAN - TRAIL

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

TOWN PROJECT # 2021-XXX

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



Landscape Plan - Trail | A

1" = 6'-0"

SYMBOL	PLANT ABBR.	BOTANICAL NAME COMMON NAME
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	CT	Carex texensis TEXAS SEDGE

REGISTERED LANDSCAPE ARCHITECT
BRADLEY W. GOODMAN
2278
STATE OF TEXAS

01.19.2023

NORTH

0 3 6 9 12
SCALE: 1"=6'

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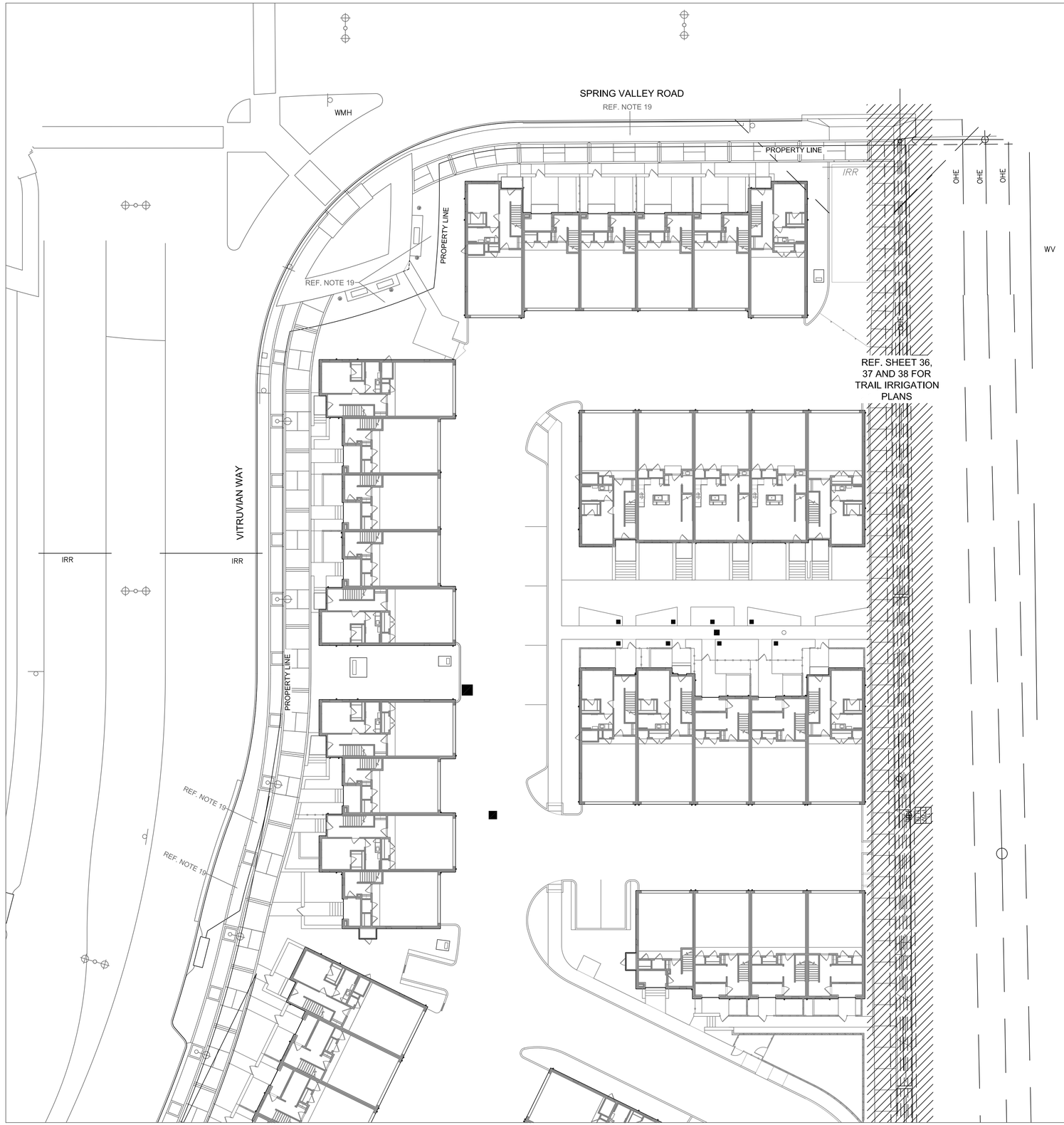
TOWN OF ADDISON, TEXAS

LANDSCAPE PLAN - TRAIL

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
BG	LZ	NOV 14, 2022	AS NOTED		32

TOWN PROJECT # 2021-XXX

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



STATE OF TEXAS
SETH A. HEIDMAN
5881
LICENSED IRRIGATOR

01.19.2023

NORTH

0 10 20 30 40
SCALE: 1"=20'

NO.	REVISION	BY	DATE
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STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

TOWN OF ADDISON, TEXAS

IRRIGATION PLAN - NORTH

SETH HEIDMAN
IRRIGATION DESIGN & CONSULTING, LLC
6009 W. Parker Rd. #149-731, Plano, Texas 75093 Tel: 972-814-5141

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DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
SAH	SAH	NOV 14, 2022	AS NOTED		33

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

TOWN PROJECT # 2021-XXX

STATE OF TEXAS
SETH A. HEIDMAN
5881
LICENSED IRRIGATOR

01.19.2023

NORTH

0 10 20 30 40
SCALE: 1"=20'

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STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

TOWN OF ADDISON, TEXAS

IRRIGATION PLAN - CENTER

SETH HEIDMAN
IRRIGATION DESIGN & CONSULTING, LLC.
6009 W. Parker Rd. #149-155, Plano, Texas 75093 Tel: 972-816-5141

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

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

TOWN PROJECT # 2021-XXX

IRR

REF. NOTE 19

VITRUVIAN WAY

IRR

IRR

IRR

IRR

IRR

IRR

IRR

REF. SHEET 36, 37 AND 38 FOR TRAIL IRRIGATION PLANS

MOTOROLA IRRINET M SC IS-R2A-SS PEDESTAL CONTROLLER W/ RAIN/FREEZE SENSOR BY LIC (POWER BY GENERAL CONTRACTOR) (VERIFY EXACT LOCATION)

EXISTING 2" TAP AND SERVICE
EXISTING 1-1/2" WATER METER
NEW 2" ISOLATION VALVE BY LIC
NEW 2" WYE STRAINER BY LIC
NEW 2" DOUBLE CHECK BY LIC
NEW 2" HYDROMETER BY LIC

1	2	3	4	5	6	7
1" DV	1" DV	1" DV	1" V	1" DV	1" DV	1" DV
8.83	5.10	4.93	11.0	6.90	7.10	8.59

BELLA LANE

STATE OF TEXAS
SETH A. HEIDMAN
5881
LICENSED IRRIGATOR

01.19.2023

NORTH

0 10 20 30 40
SCALE: 1"=20'

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f214.954.7162

STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

TOWN OF ADDISON, TEXAS

IRRIGATION PLAN - SOUTH

SETH HEIDMAN
IRRIGATION DESIGN & CONSULTING, LLC.
6009 W. Parker Rd. #149-131, Plano, Texas 75093 Tel: 972-816-5141

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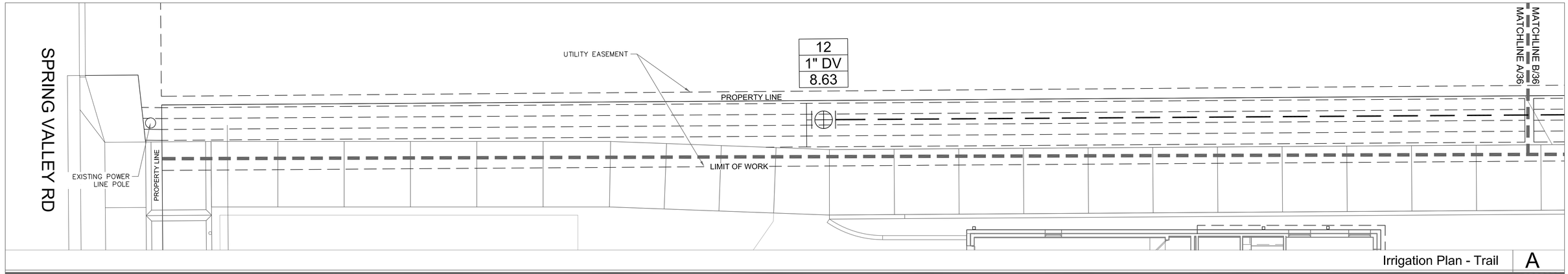
DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
SAH	SAH	NOV 14, 2022	AS NOTED		35

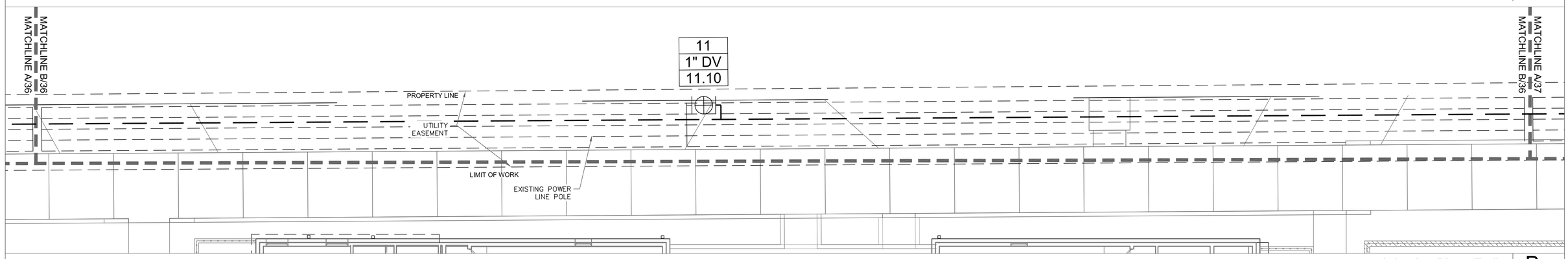
STREETSCAPE & TRAIL IMPROVEMENTS – VP PUBLIC INFRASTRUCTURE – PHASE 9, BLOCK 701 – PROJECT NO. 5029-08

TOWN PROJECT # 2021-XXX



Irrigation Plan - Trail **A**

1" = 6'-0"



Irrigation Plan - Trail **B**

1" = 6'-0"

STATE OF TEXAS
SETH A. HEIDMAN
5881
LICENSED IRRIGATOR

01.19.2023

NORTH

0 3 6 9 12
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

SETH HEIDMAN
IRRIGATION DESIGN & CONSULTING, LLC.
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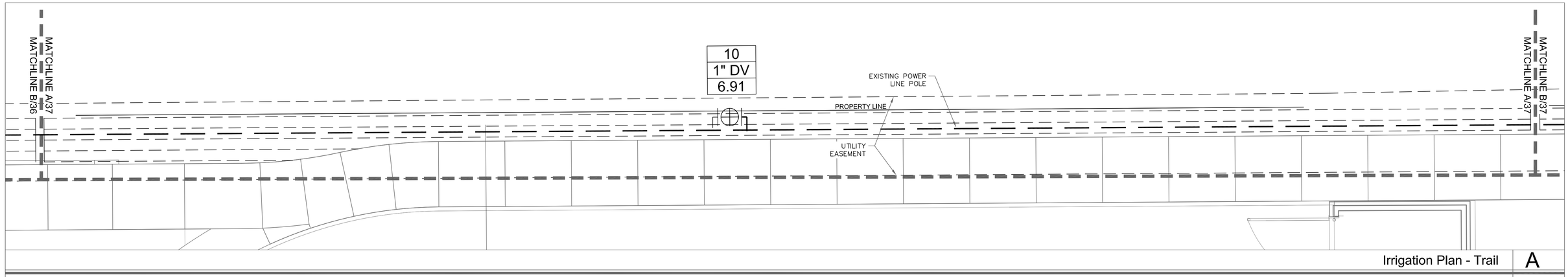
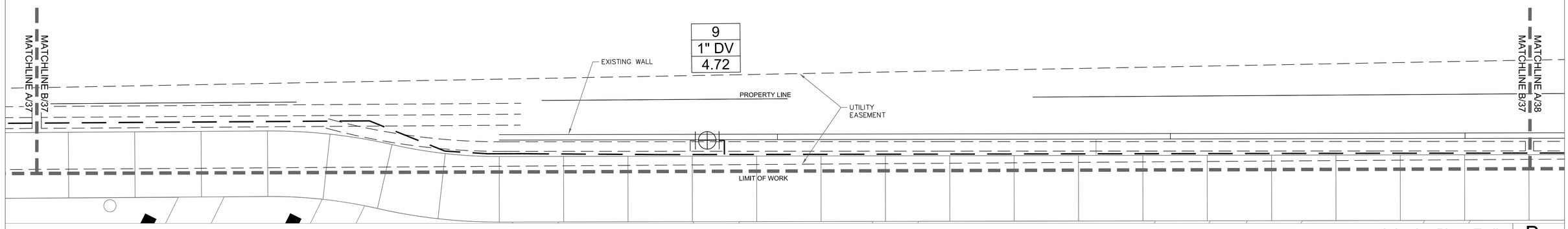
TOWN PROJECT # 2021-XXX

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



Irrigation Plan - Trail **A**

1" = 6'-0"



Irrigation Plan - Trail **B**

1" = 6'-0"

STATE OF TEXAS
SETH A. HEIDMAN
5881
LICENSED IRRIGATOR

01.19.2023

NORTH

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SCALE: 1"=6'

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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

NORTH

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STREETSCAPE & TRAIL IMPROVEMENTS

VP PUBLIC INFRASTRUCTURE - PHASE 9, BLOCK 701

TOWN OF ADDISON, TEXAS

IRRIGATION PLAN - TRAIL

SETH HEIDMAN
IRRIGATION DESIGN & CONSULTING, LLC

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
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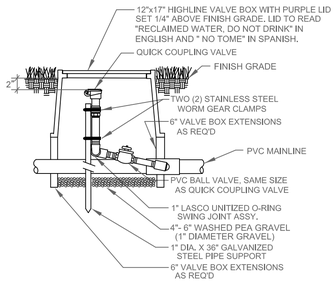
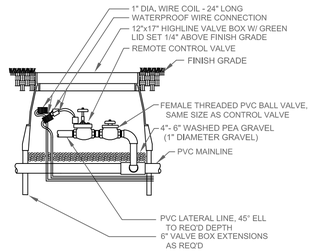
STREETSCAPE & TRAIL IMPROVEMENTS — VP PUBLIC INFRASTRUCTURE — PHASE 9, BLOCK 701 — PROJECT NO. 5029-08

TOWN PROJECT # 2021-XXX



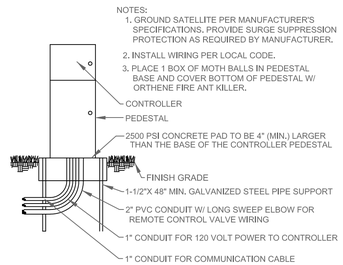
QUICK COUPLING VALVE W/ BALL VALVE

NOT TO SCALE SHBDC



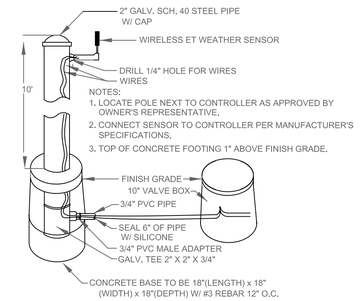
REMOTE CONTROL VALVE W/ BALL VALVE

NOT TO SCALE SHBDC



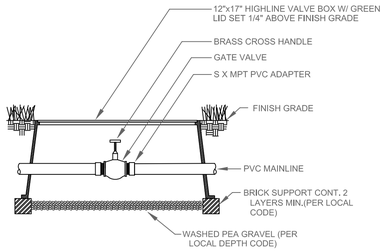
CONTROLLER W/ PEDESTAL

NOT TO SCALE SHBDC



SENSOR POLE

NOT TO SCALE SHBDC



ISOLATION VALVE

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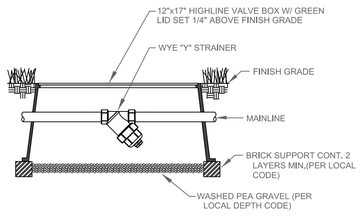
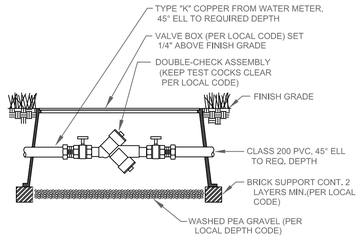


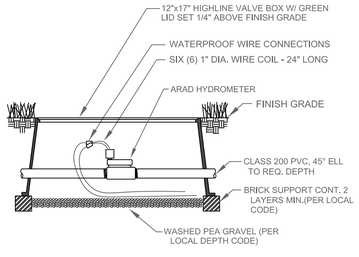
WYE "Y" STRAINER

NOT TO SCALE SHBDC



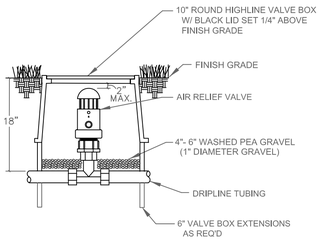
DOUBLE CHECK ASSEMBLY

NOT TO SCALE SHBDC



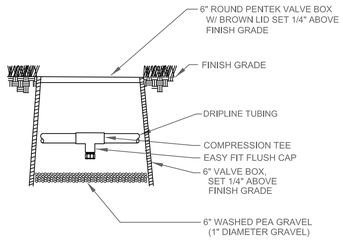
HYDROMETER

NOT TO SCALE SHBDC



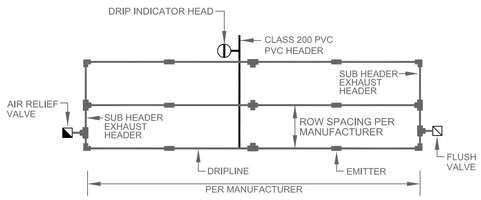
AIR RELIEF VALVE

NOT TO SCALE SHBDC



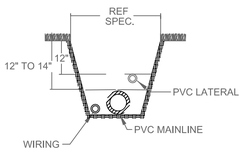
DRIP FLUSH VALVE

NOT TO SCALE SHBDC



TYPICAL DRIPLINE LAYOUT

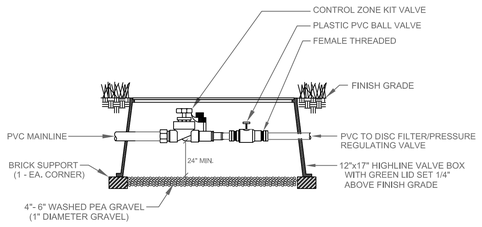
NOT TO SCALE SHBDC



1. TAPE & BUNDLE WIRING AT 10'-0" INTERVALS

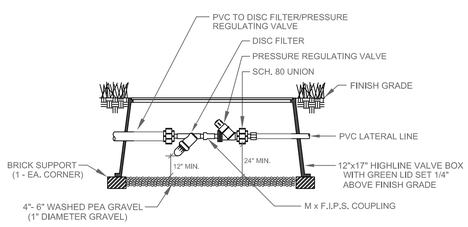
TRENCHING DETAIL

NOT TO SCALE SHBDC



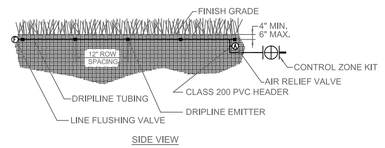
REMOTE CONTROL DRIP ZONE

NOT TO SCALE SHBDC



FILTER/ REGULATING VALVE

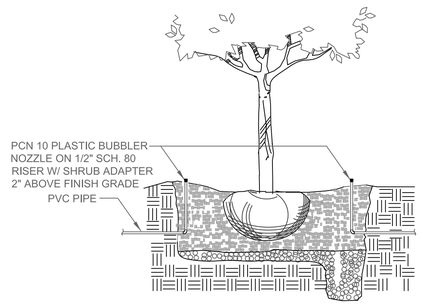
NOT TO SCALE SHBDC



SIDE VIEW

TYPICAL SUBSURFACE DRIPLINE LAYOUT

NOT TO SCALE SHBDC



TREE BUBBLER

NOT TO SCALE SHBDC

SETH HEIDMAN
IRRIGATION DESIGN & CONSULTING, LLC
6039 W. Parker Rd. #149-231, Plano, Texas 75093 Tel: 972-814-5141

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STATE OF TEXAS
SETH A. HEIDMAN
5881
LICENSED IRRIGATOR

01.19.2023

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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

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

TOWN PROJECT # 2021-XXX

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
NN	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.)		

STATE OF TEXAS
SETH A. HEIDMAN
5881
LICENSED IRRIGATOR

01.19.2023

NO.	REVISION	BY	DATE
	CITY RE-SUBMITTAL	SO	01/19/23
	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

IRRIGATION NOTES AND LEGEND

SETH HEIDMAN
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6009 W. Parker Rd. #149-231, Plano, Texas 75093 Tel: 972-814-5147

Irrigation in Texas is regulated by the Texas Commission of Environmental Quality (TCEQ), MC-178, P.O. Box 13087, Austin, Texas, 78711-3087. TCEQ website is: www.tceq.state.tx.us

DESIGN	DRAWN	DATE	SCALE	NOTES	Sheet No.
SAH	SAH	NOV 14, 2022	AS NOTED		40

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

TOWN PROJECT # 2021-XXX