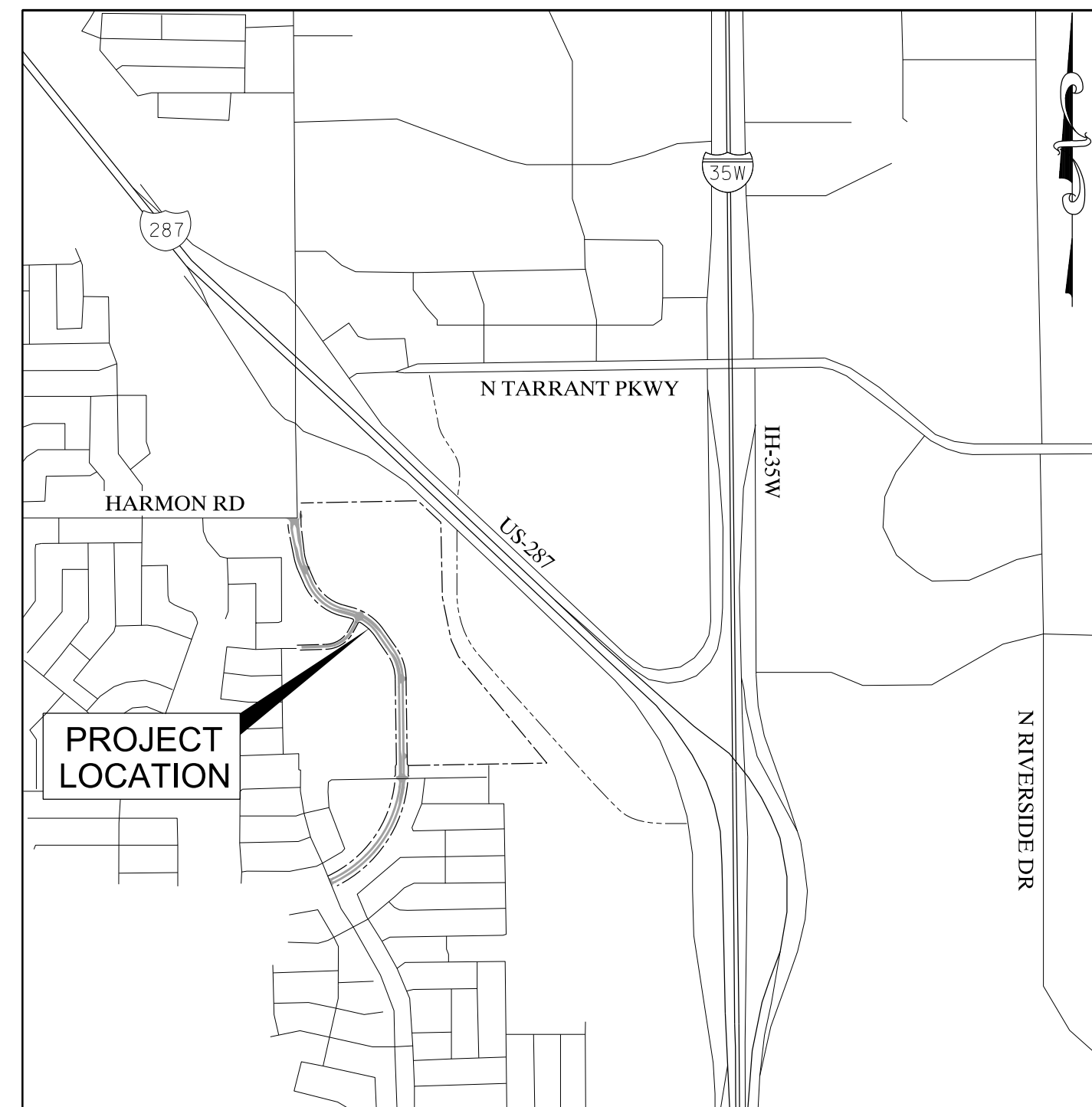


THE CITY OF FORT WORTH, TEXAS PLANS FOR THE CONSTRUCTION OF WATER, SEWER, PAVING, DRAINAGE, & STREET LIGHT IMPROVEMENTS TO SERVE *EAST BAILEY BOSWELL ROAD*

EAST BAILEY BOSWELL ROAD
(FROM HORSEMAN TO HARMON)

CRESTED BUTTE DRIVE
(FROM HARMON TO BAILEY BOSWELL)



LOCATION MAP
N.T.S.

MAPSCO NO. : 119E & 119F

COUNCIL DISTRICT: 2

DEVELOPER/OWNER

TRANSWESTERN DEVELOPMENT COMPANY
DENTON WALKER
REGIONAL PARTNER
2300 NORTH FIELD STREET, STE 2000
DALLAS, TEXAS 75201
(469) 444-8073
denton.walker@transwestern.com

PREPARED BY:

HALFF ASSOCIATES, INC.
TBPELS FIRM #F-312
JOSEPH W. BUCHANAN, P.E.
3803 PARKWOOD BLVD., STE 800
FRISCO, TX 75034-8640
(214) 937-3936
jbuchanan@halff.com

DIRECTOR'S DESIGNEE FOR CONSTRUCTION _____ DATE: _____
PLAN APPROVAL _____
RESOLUTION NO. 01-10-2020

REVIEWED: _____ DATE: _____
PROJECT MANAGER _____

AUGUST 2021

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SHEET NO.	DESCRIPTION
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6	PROJECT LAYOUT WATER
7	WATERLINE 'A' PLAN & PROFILE BEGIN TO STA 5+00
8	WATERLINE 'A' PLAN & PROFILE STA 5+00 TO STA 12+00
9	WATERLINE 'A' PLAN & PROFILE STA 12+00 TO STA 19+00
10	WATERLINE 'A' PLAN & PROFILE STA 19+00 TO STA 26+00
11	WATERLINE 'A' PLAN & PROFILE STA 26+00 TO END
12	WATERLINE 'B' PLAN & PROFILE BEGIN TO STA 7+00
13	WATERLINE 'B' PLAN & PROFILE STA 7+00 TO END
14	WATERLINE LATERAL PROFILES
15	PROJECT LAYOUT SANITARY SEWER
16	SANITARY SEWER LINE 'A' PLAN & PROFILE BEGIN TO STA 9+00
17	SANITARY SEWER LINE 'A' PLAN & PROFILE STA 9+00 TO STA 17+00
18	SANITARY SEWER LINE 'A' PLAN & PROFILE STA 17+00 TO STA 23+00
19	SANITARY SEWER LINE 'A' PLAN & PROFILE STA 23+00 TO STA 31+00
20	SANITARY SEWER LINE 'A' PLAN & PROFILE STA 31+00 TO STA 39+00
21	SANITARY SEWER LINE 'A' PLAN & PROFILE STA 39+00 TO STA 46+00
22	SANITARY SEWER LINE 'A' PLAN & PROFILE STA 46+00 TO STA 52+00
23	SANITARY SEWER LINE 'A' PLAN & PROFILE STA 52+00 TO END
24	SANITARY SEWER LINE 'B' PLAN & PROFILE BEGIN TO STA 9+00
25	SANITARY SEWER LINE 'B' PLAN & PROFILE STA 9+00 TO END
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94	STORM DRAIN PLAN PLAN & PROFILE STA 66+00 TO STA 73+00
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96	STORM DRAIN PLAN PLAN & PROFILE STA 80+00 TO STA 87+00
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173	TRAFFIC SIGNAL DESIGN TABLES
174-189	TRAFFIC SIGNAL DETAILS

MATTIE PARKER
MAYOR

DAVID COOKE
CITY MANAGER

MICHAEL OWEN, P.E.
CITY ENGINEER, TRANSPORTATION AND
PUBLIC WORKS DEPARTMENT

CHRISTOPHER P. HARDER, P.E.
DIRECTOR, WATER DEPARTMENT



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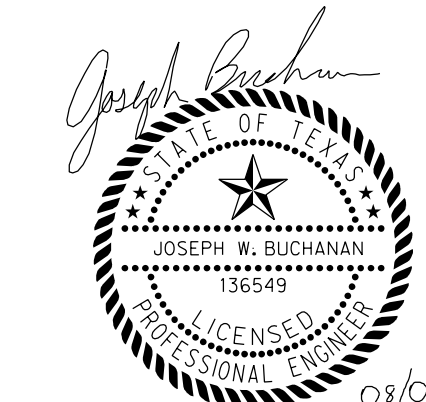
IPRC RECORD NO. IPRC21-0050
CITY PROJECT NO. 103320
FID NO. 30114-0200431-103320-E07685
FILE NO. K-2840

IPRC NO. 21-0050 FILE NO. K-2840 CITY PROJECT NO. 103320 FID NO. 30114-0200431-103320-E07685 WATER, SEWER, PAVING, DRAINAGE, & STREET LIGHT IMPROVEMENTS TO SERVE NORTH COWTOWN CROSSING DEVELOPMENT

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REVISIONS

NO.	DESCRIPTION	DATE
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3		



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CONSTRUCTION NOTES

NOTE: ALL DIMENSIONS AND STATION/OFFSETS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED ON PLANS.
 NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING TREES, FENCES, RETAINING WALLS AND STRUCTURES UNLESS OTHERWISE NOTED.
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 AT&T 1-800-878-8711
 FORT WORTH WATER DEPT.-FIELD OPERATIONS WATER (817) 925-2360
 FORT WORTH WATER DEPT.-FIELD OPERATIONS SANITARY SEWER (817) 223-7438
 FORT WORTH WATER DEPT.-FIELD OPERATIONS LOCATE (817) 392-8296
 FORT WORTH T&PW (817) 871-8100
 ATMOS ENERGY (817) 215-4366
 ONCOR GAS & ELECTRIC (817) 215-6214
 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

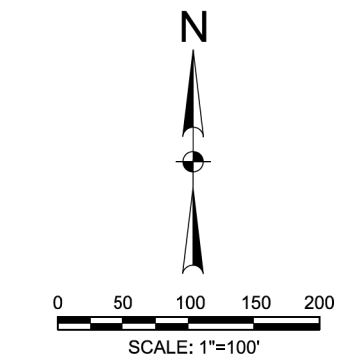
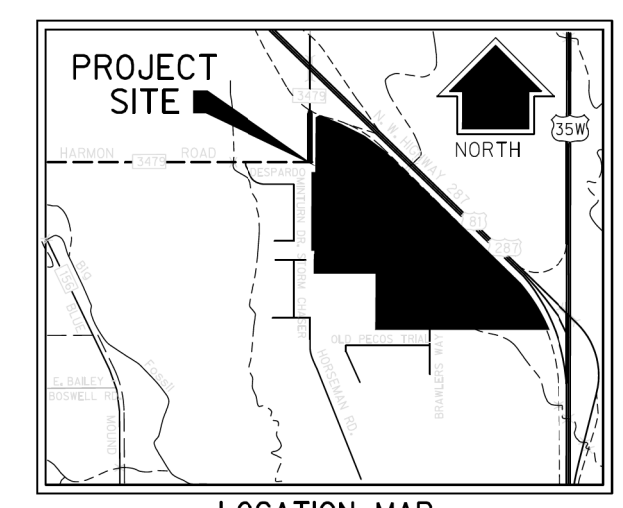
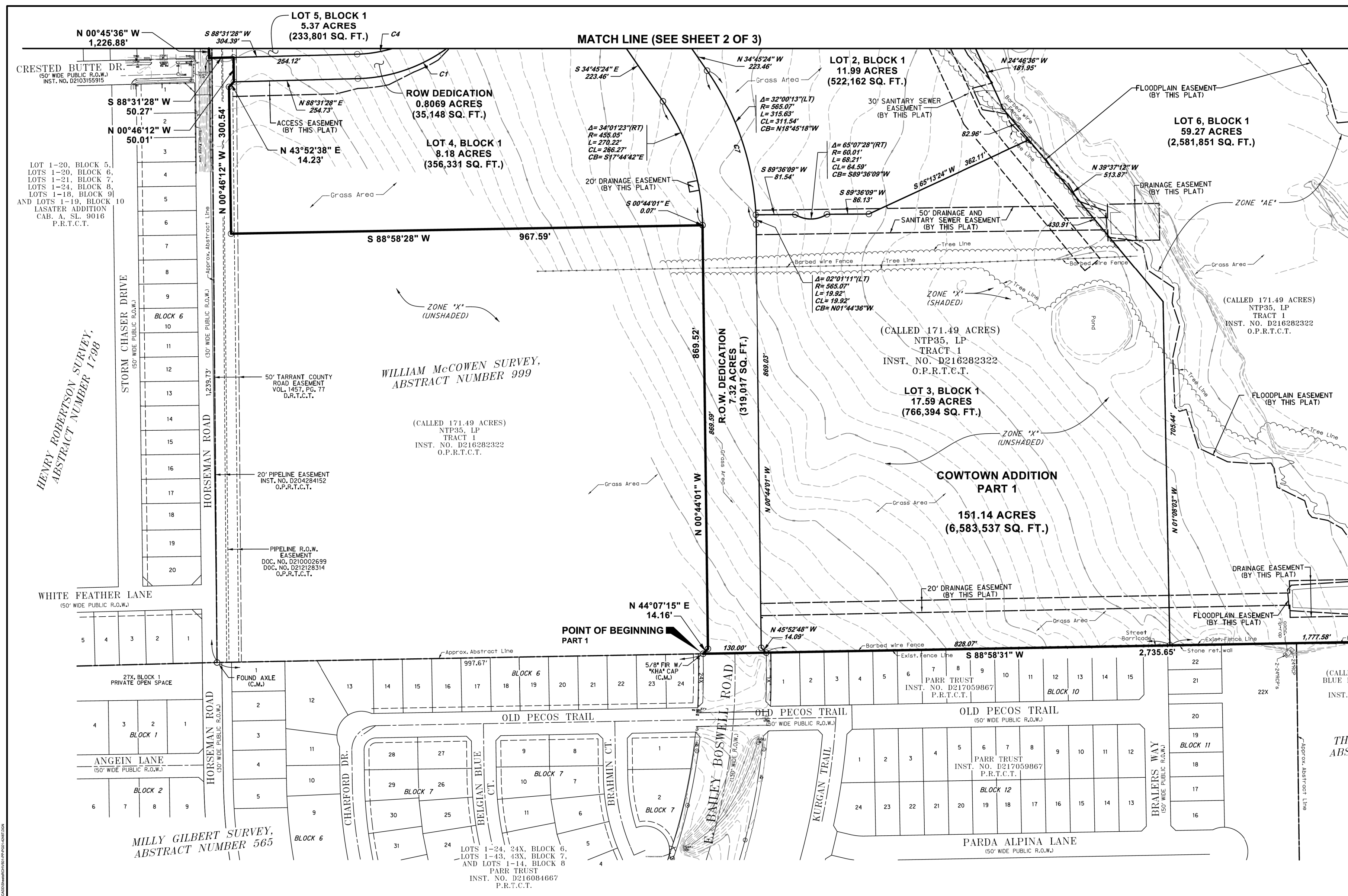
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
DRAFT HORIZONTAL CONTROL
 (SHEET 1 OF 3)

PLAN

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 2 OF 189
DRAWN: PTS			



CURVE TABLE

NO.	DELTA	RADIUS	LENGTH	CHORD LENGTH	CHORD BEARING
C1	59°49'56"(L)	325.04'	339.43'	324.21'	S58°38'30"E
C4	59°49'37"(RT)	275.05'	287.21'	274.34'	S58°38'30"E
C7	34°01'23"(RT)	565.07'	335.55'	330.64'	S17°44'42"E

MATCH LINE (SEE SHEET 3 OF 3)

(CALLED 92.616 ACRES)
 BLUE MAPLE GROUP, LLC
 TRACT 5
 INST. NO. D213119387
 O.P.R.T.C.T.

THOMAS PECK SURVEY,
 ABSTRACT NUMBER 1210

DRAFT HORIZONTAL CONTROL PLAN
COWTOWN ADDITION
 PART 1 & PART 2
 LOTS 1-7, BLOCK 1

SUBTOTAL OF 151.14 ACRES
 SITUATED IN THE
 WILLIAM McCOWEN SURVEY, ABSTRACT NUMBER 999
 JOSIAH WALKER SURVEY, ABSTRACT NUMBER 1600
 CITY OF FORT WORTH, TARRANT COUNTY, TEXAS
 FOR
 TRANSWESTERN



TBPELS FIRM NO. 10029600
 HALFF ASSOCIATES, INC. ENGINEERS - SURVEYORS
 1201 NORTH BOWSER ROAD - RICHARDSON, TEXAS - 75081-2275
 SCALE: 1"=100' TELE: (214) 946-6200 AVG. 42487 JUNE, 2021

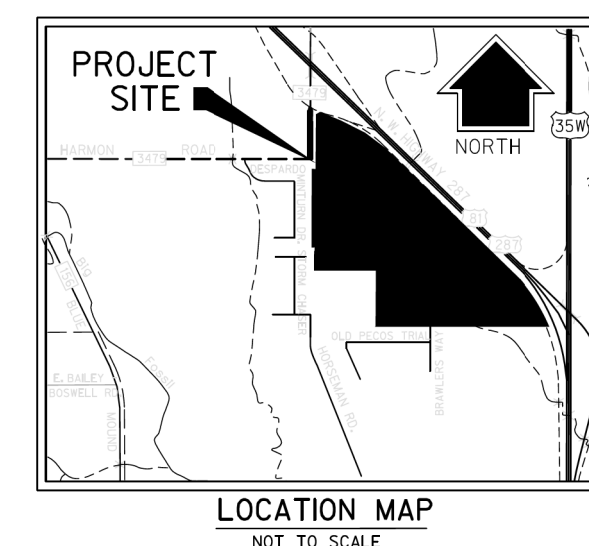
1/3

LEGEND

GPLS	GAS PIPELINE SIGN
GW	GUY WIRE
PP	POWER POLE
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
TS	TRAFFIC SIGN
WHH	WATER MANHOLE
O	NOT MONUMENTED (UNLESS NOTED OTHERWISE)
#/CAP	WITH YELLOW PLASTIC CAP STAMPED 'HALFF'
FR	FOUND IRON ROD
CAB., SL.	CABINET, SLIDE
VOL., P.G.	VOLUME, PAGE
INST. NO.	INSTRUMENT NUMBER
C.M.	CONTROLLING MONUMENT
R.O.W.	RIGHT-OF-WAY
D.R.T.C.T.	DEED RECORDS OF TARRANT COUNTY, TEXAS
P.R.T.C.T.	PLAT RECORDS OF TARRANT COUNTY, TEXAS
O.P.R.T.C.T.	OFFICIAL PUBLIC RECORDS OF TARRANT COUNTY, TEXAS

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



LEGEND

- G.P.S. GAS PIPELINE SIGN
- GW GUY WIRE
- PP POWER POLE
- RCB REINFORCED CONCRETE BOX
- RCP REINFORCED CONCRETE PIPE
- TS TRAFFIC SIGN
- WM WATER MANHOLE
- W/CAP NOT MONUMENTED UNLESS NOTED OTHERWISE
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- P.R.T.C.T. PLAT RECORDS OF TARRANT COUNTY, TEXAS
- O.P.R.T.C.T. OFFICIAL PUBLIC RECORDS OF TARRANT COUNTY, TEXAS

LINE TABLE

NO.	BEARING	DIST.
L1	N28°41'32"E	105.20'
L2	N73°41'33"E	30.00'
L3	S18°18'28"E	30.00'
L4	S28°41'32"W	98.81'
L5	S45°30'55"E	28.40'
L6	S00°45'36"E	165.64'
L7	N11°12'59"W	105.50'
L8	N89°43'46"E	8.17'
L9	S89°43'46"W	50.00'

CURVE TABLE

NO.	DELTA	RADIUS	LENGTH	CHORD LENGTH	CHORD BEARING
C1	59°49'58"(LT)	275.05'	287.21'	274.34'	N48°36'30"E
C2	24°38'40"(RT)	455.05'	195.88'	194.37'	N47°05'18"W
C3	03°27'40"(RT)	455.05'	27.49'	27.48'	S72°50'19"E
C4	59°49'37"(RT)	275.05'	287.21'	274.34'	S58°36'30"W
C5	39°48'40"(RT)	455.05'	316.19'	309.87'	N54°39'44"W
C6	39°48'41"(RT)	565.07'	392.83'	384.78'	S54°39'44"E
C8	11°41'13"(RT)	455.05'	92.82'	92.66'	S65°15'48"E
C9	08°23'09"(RT)	565.07'	82.70'	82.63'	N07°01'25"W

TRANSWESTERN BY HALFF

TPBELS FIRM NO. 10029600
 HALFF ASSOCIATES, INC. ENGINEERS - SURVEYORS
 1201 NORTH BOWSER ROAD - RICHARDSON, TEXAS - 75081-2275
 SCALE: 1"=100' TELE: (214) 346-6200 AVO. 42467 JUNE, 2021



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 ATMOS ENERGY (817) 215-4366
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 ALL OTHER FACILITIES 1-800-DIG-TESS

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E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

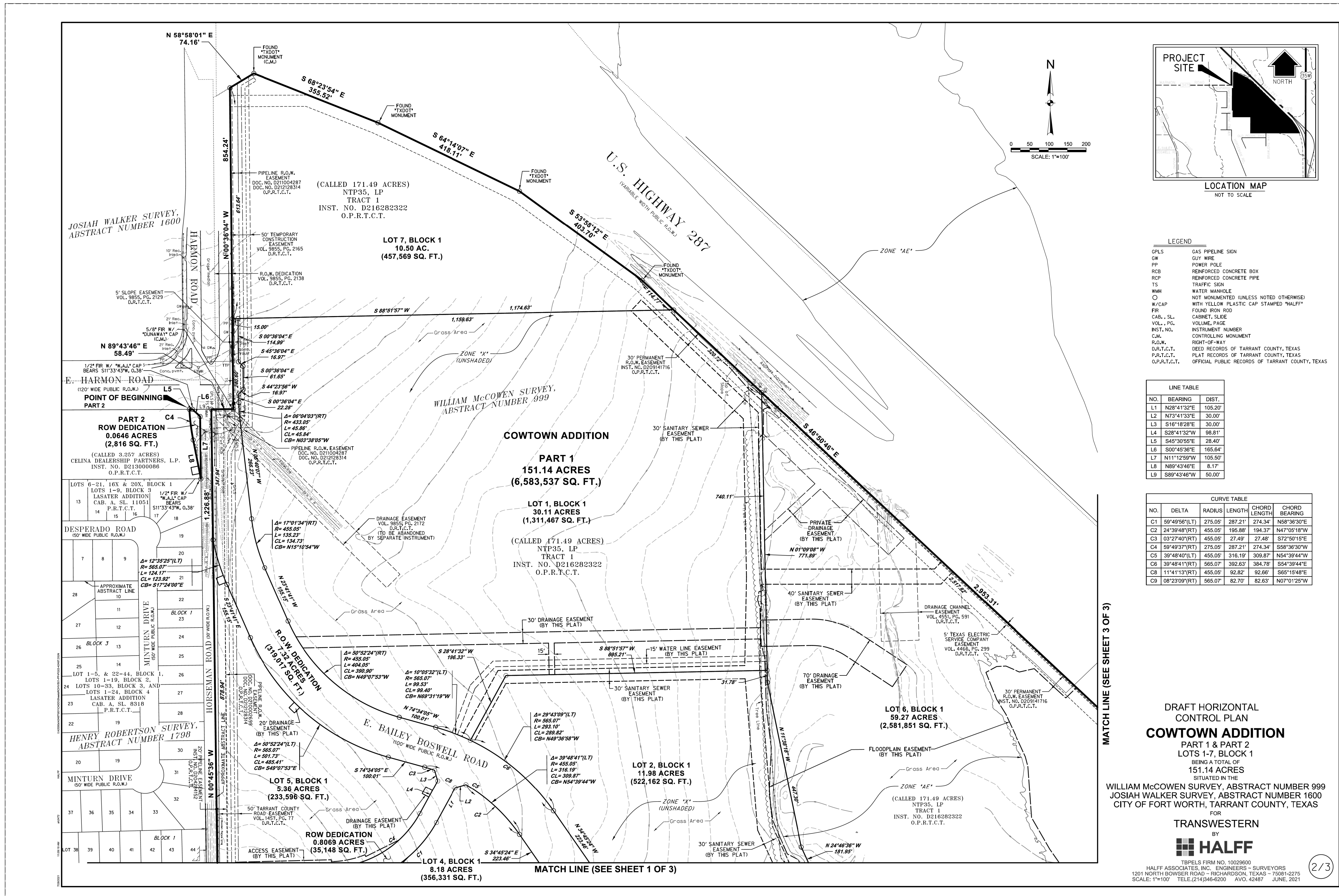
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 TPW PROJECT # CXXX-XXXXX-XXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
DRAFT HORIZONTAL CONTROL
 (SHEET 2 OF 3)

PLAN

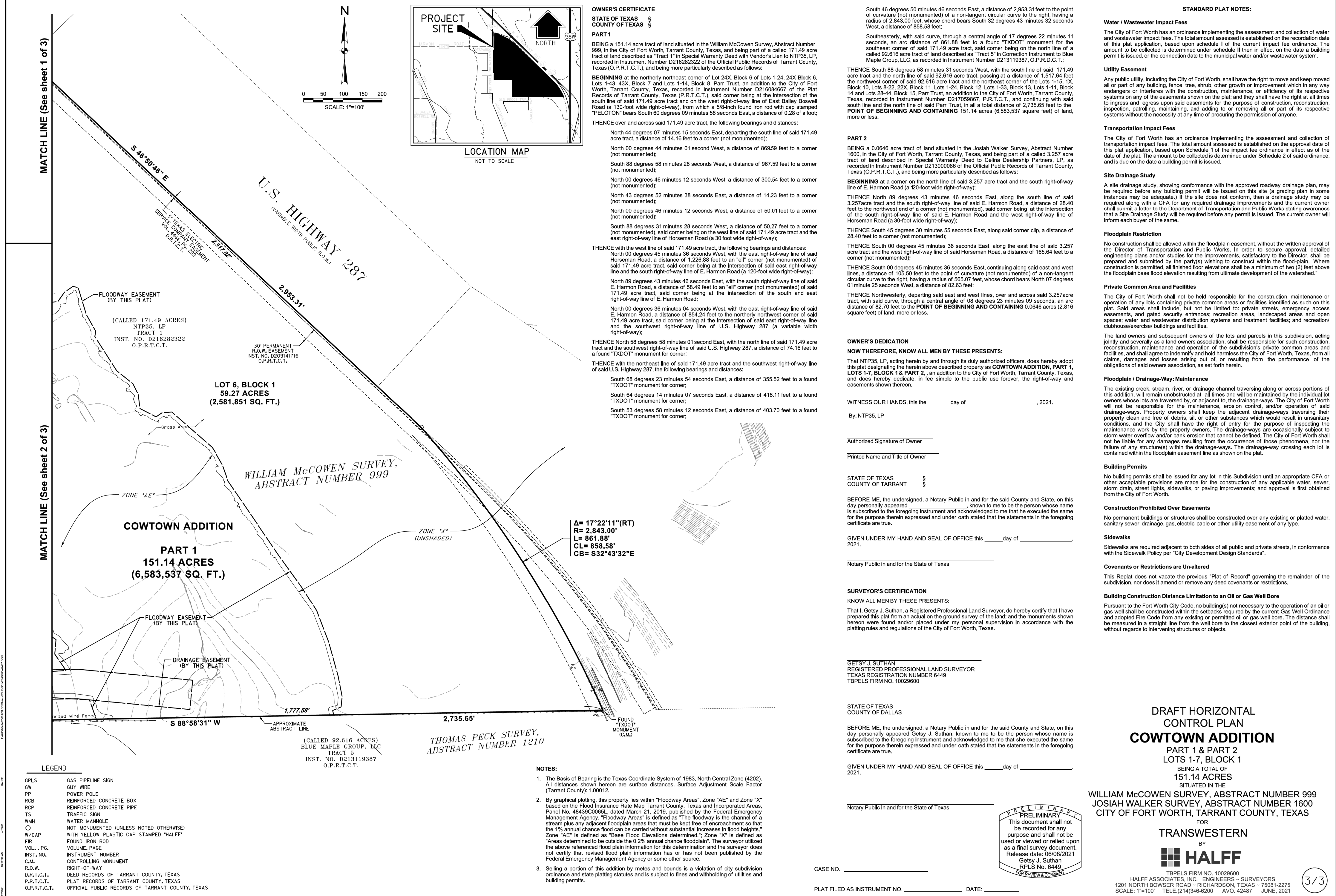
DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 3 OF 189
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REVISIONS

Table with 3 columns: NO., DESCRIPTION, DATE. Contains 3 revision entries.



STANDARD PLAT NOTES:

Water / Wastewater Impact Fees: The City of Fort Worth has an ordinance implementing the assessment and collection of water and wastewater impact fees. The total amount assessed is established on the recordation date of this plat application...

Transportation Impact Fees: The City of Fort Worth has an ordinance implementing the assessment and collection of transportation impact fees. The total amount assessed is established on the approval date of this plat application...

Floodplain Restriction: No construction shall be allowed within the floodplain easement, without the written approval of the Director of Transportation and Public Works...

Private Common Area and Facilities: The City of Fort Worth shall not be held responsible for the construction, maintenance or operation of any lots containing private common areas or facilities identified as such on this plat...

Floodplain / Drainage-Way Maintenance: The existing creek, stream, river, or drainage channel traversing along or across portions of this addition, will remain unobstructed at all times and will be maintained by the individual lot owners...

Building Permits: No building permits shall be issued for any lot in this Subdivision until an appropriate CFA or other acceptable provisions are made for the construction of any applicable water, sewer, storm drain, street lights, sidewalks, or paving improvements...

Sidewalks: Sidewalks are required adjacent to both sides of all public and private streets, in conformance with the Sidewalk Policy per 'City Development Design Standards'.

Covenants or Restrictions are Unaltered: This Plat does not vacate the previous 'Plat of Record' governing the remainder of the subdivision, nor does it amend or remove any deed covenants or restrictions.

Building Construction Distance Limitation to an Oil or Gas Well Bore: Pursuant to the Fort Worth City Code, no building(s) not necessary to the operation of an oil or gas well shall be constructed within the setbacks required by the current Gas Well Ordinance...

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OWNER'S DEDICATION

NOW THEREFORE, KNOW ALL MEN BY THESE PRESENTS: That NTP35, LP, acting herein by and through its duly authorized officers, does hereby adopt this plat designating the herein above described property as COWTOWN ADDITION, PART 1, LOTS 1-7, BLOCK 1 & PART 2, an addition to the City of Fort Worth, Tarrant County, Texas, and does hereby dedicate, in fee simple to the public use forever, the right-of-way and easements shown thereon.

WITNESS OUR HANDS, this _____ day of _____, 2021.

By: NTP35, LP

Authorized Signature of Owner

Printed Name and Title of Owner

STATE OF TEXAS COUNTY OF TARRANT

BEFORE ME, the undersigned, a Notary Public in and for the said County and State, on this day personally appeared _____ to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purpose therein expressed and under oath stated that the statements in the foregoing certificate are true.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this _____ day of _____, 2021.

Notary Public in and for the State of Texas

Notary Public in and for the State of Texas

Notary Public in and for the State of Texas

Notary Public in and for the State of Texas

Notary Public in and for the State of Texas

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Notary Public in and for the State of Texas

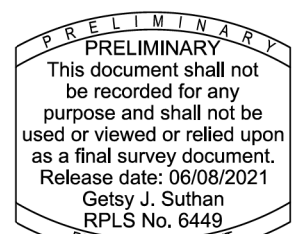
Notary Public in and for the State of Texas

Notary Public in and for the State of Texas

Notary Public in and for the State of Texas

Notary Public in and for the State of Texas

Notary Public in and for the State of Texas



DRAFT HORIZONTAL CONTROL PLAN COWTOWN ADDITION PART 1 & PART 2 LOTS 1-7, BLOCK 1

151.14 ACRES SITUATED IN THE WILLIAM McCOWEN SURVEY, ABSTRACT NUMBER 999 JOSIAH WALKER SURVEY, ABSTRACT NUMBER 1600 CITY OF FORT WORTH, TARRANT COUNTY, TEXAS

FOR TRANSWESTERN BY HALFF

TBPELS FIRM NO. 10029600 HALFF ASSOCIATES, INC. ENGINEERS - SURVEYORS 1201 NORTH BOWSER ROAD - RICHARDSON, TEXAS - 75081-2275 SCALE: 1"=100' TELE: (214) 946-6200 AVO. 42487 JUNE, 2021

3/3

CONSTRUCTION NOTES

NOTE: ALL DIMENSIONS AND STATION/OFFSETS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED ON PLANS. NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING TREES, FENCES, RETAINING WALLS AND STRUCTURES UNLESS OTHERWISE NOTED. NOTE: CONTRACTOR SHALL RELocate EXISTING FENCES AS NOTED TO ONE FOOT OF PROPOSED RIGHT OF WAY. THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATING AT EACH LOCATION: AT&T 1-800-878-8711 FORT WORTH WATER DEPT.-FIELD OPERATIONS WATER (817) 925-2360 FORT WORTH WATER DEPT.-FIELD OPERATIONS SANITARY SEWER (817) 223-7438 FORT WORTH WATER DEPT.-FIELD OPERATIONS LOCATE (817) 392-6296 FORT WORTH T&PW (817) 871-8100 ATMOS ENERGY (817) 215-4366 ONCOR GAS & ELECTRIC (817) 215-6214 TXU ENERGY 1-800-233-2133 SBC TELEPHONE (817) 338-6819 CHARTER COMM. (817) 509-6272 EXT. 3363 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

Table with 3 columns: CONTROL POINT #, SET 'X-CUT', ELEVATION. Includes points #105, #109, and #314.

DOE # K-2840 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD

DRAFT HORIZONTAL CONTROL (SHEET 3 OF 3)

PLAN

Table with 4 columns: DESIGNED: TMW, DRAWN: PTS, SCALE: N.T.S., DATE: 06/08/2021, SHEET: 4 OF 189

GENERAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, PRIOR TO EXCAVATION. THE INFORMATION AND DATA SHOWN WITH RESPECT TO EXISTING UNDERGROUND FACILITIES AT OR CONTIGUOUS TO THE SITE IS APPROXIMATE AND BASED ON INFORMATION FURNISHED BY THE OWNERS OF SUCH UNDERGROUND FACILITIES OR ON PHYSICAL APPURTENANCES OBSERVED IN THE FIELD. THE CITY AND ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY SUCH INFORMATION OR DATA. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR REVIEWING AND CHECKING ALL SUCH INFORMATION OR DATA, FOR LOCATING ALL UNDERGROUND FACILITIES, FOR COORDINATION OF THE WORK WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES DURING CONSTRUCTION AND FOR THE SAFETY AND PROTECTION THEREOF AND REPAIRING ANY DAMAGE THERETO RESULTING FROM THE WORK. THIS WORK SHALL BE CONSIDERED AS A SUBSIDIARY ITEM OF WORK, THE COST OF WHICH SHALL BE INCLUDED IN THE PRICE BID IN THE PROPOSAL FOR VARIOUS BID ITEMS. THE CONTRACTOR SHALL NOTIFY ANY AFFECTED OWNERS (UTILITY COMPANIES) OR AGENCIES IN WRITING AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
 - NOTIFY TEXAS 811 (1-800-DIG-TESS OR WWW.TEXAS811.ORG) TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 - CAUTION! BURIED ELECTRIC LINES MAY EXIST ALONG THIS PROJECT. CONTACT ELECTRICAL PROVIDERS 48 HOURS PRIOR TO EXCAVATION.
 - CAUTION! BURIED GAS LINES MAY EXIST ALONG THIS PROJECT. CONTACT ATMOS 48 HOURS PRIOR TO EXCAVATION, AND WITHIN TWO (2) HOURS OF ENCOUNTERING A GAS LINE.
 - CAUTION! BURIED COMMUNICATION CABLES MAY EXIST ALONG THIS PROJECT. CONTACT COMMUNICATION COMPANIES 48 HOURS PRIOR TO EXCAVATION.
 - CAUTION! WHEN DOING WORK WITHIN 200 FEET OF ANY SIGNALIZED INTERSECTION, THE CONTRACTOR SHALL NOTIFY TRAFFIC MANAGEMENT DIVISION OF CITY OF FORT WORTH T/PW, 72 HOURS PRIOR TO EXCAVATION. THE CONTRACTOR SHALL PROTECT EXISTING SIGNAL HARDWARE, GROUND BOXES, DETECTION LOOPS, AND UNDERGROUND CONDUIT AT SIGNALIZED INTERSECTIONS. ANY DAMAGES AT SIGNALIZED INTERSECTIONS SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR. THE CONTRACTOR SHALL CONTACT THE CITY AT 817-392-8100 TO PERFORM CONDUIT LINE LOCATES AT SIGNALIZED INTERSECTIONS 72 HOURS PRIOR TO COMMENCING WORK AT THE INTERSECTION.
 - THE CONTRACTOR SHALL NOTIFY THE CITY OF FORT WORTH PROJECT MANAGER 48 HOURS PRIOR TO THE START OF ANY EXCAVATION (PROJECT MANAGER'S NAME: PATRICK BUCKLEY, 817-392-2443) FOR UTILITY WORK WITHIN UTILITY EASEMENTS, ONCE PIPE OR APPURTENANCES HAVE BEEN INSTALLED OR REHABILITATED, IMMEDIATELY COMMENCE TEMPORARY SURFACE RESTORATION. COMPLETE SURFACE RESTORATION TO THE OWNER'S SATISFACTION WITHIN SEVEN (7) DAYS OF WORK FINISHING ON-SITE. FAILURE TO MAINTAIN SURFACE RESTORATION, AS NOTED ABOVE, MAY RESULT IN SUSPENSION OF WORK UNTIL RESTORATION IS COMPLETE.
- CONTRACTOR'S PERSONNEL SHALL HAVE IDENTIFYING CLOTHING, HATS OR BADGES AT ALL TIMES WHICH IDENTIFY THE CONTRACTOR'S NAME, LOGO OR COMPANY.
- PROTECT CONCRETE CURB AND GUTTER, DRIVEWAYS, AND SIDEWALKS THAT ARE NOT DESIGNATED FOR REMOVAL. REMOVAL AND REPLACEMENT OF THESE ITEMS SHALL BE AS DESIGNATED IN THE DRAWINGS.

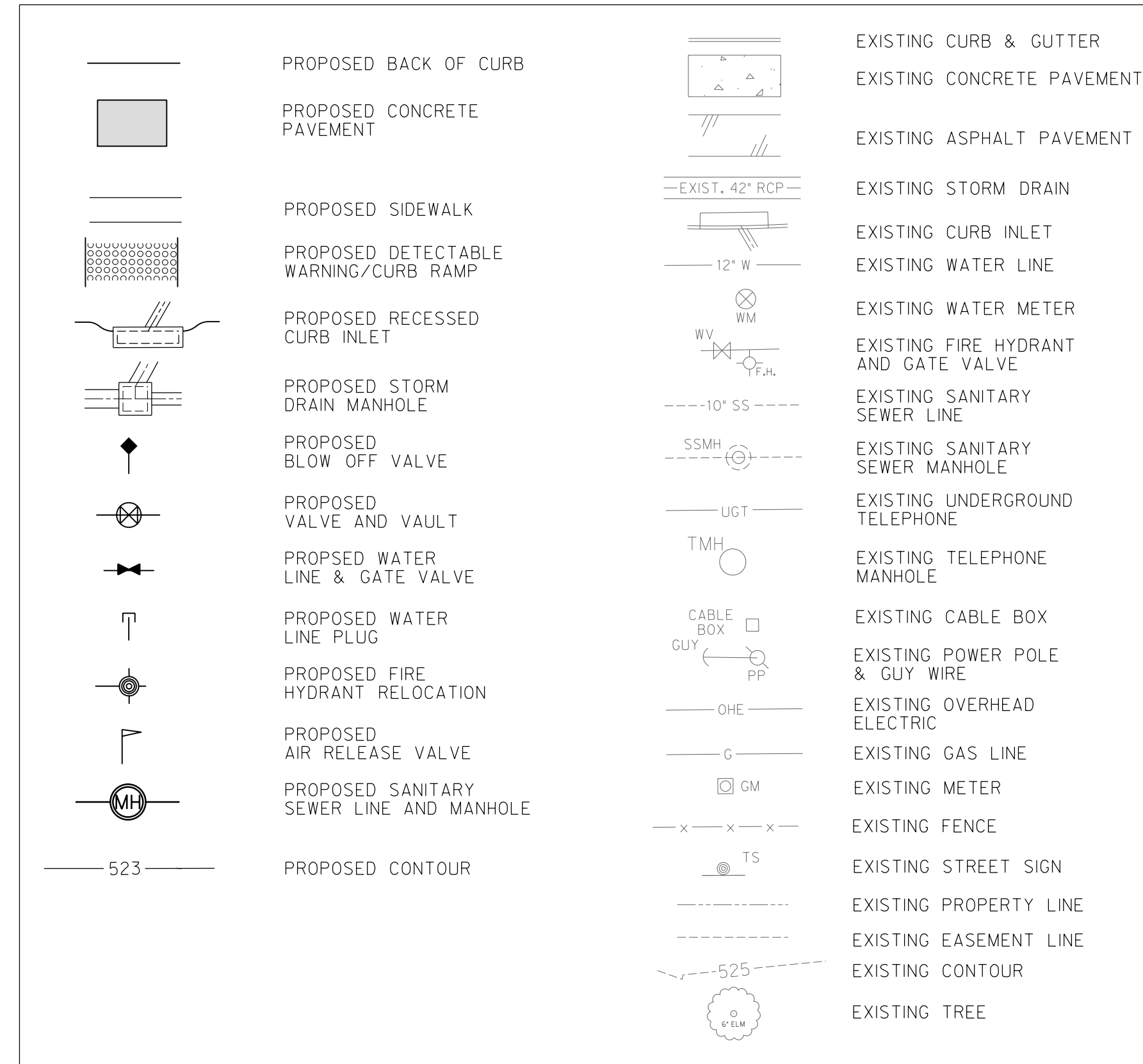
WATER GENERAL NOTES

- PROVIDE THRUST RESTRAINT BY MEANS OF RESTRAINING JOINTS AT FITTINGS AND CONCRETE BLOCKING. WHEN SPECIFICALLY INDICATED ON THE DRAWINGS, PROVIDE THRUST RESTRAINT AT DESIGNATED JOINTS BEYOND THE FITTINGS. EACH METHOD SHALL BE CAPABLE OF THRUST RESTRAINT INDEPENDENT OF THE OTHER SYSTEM. THE CONTRACTOR SHALL REFER TO CITY STANDARD DETAILS FOR AREA REQUIRED TO INSTALL CONCRETE BLOCKING.
- ALL DUCTILE IRON MECHANICAL JOINT FITTINGS SHALL BE RESTRAINED TO PIPE USING RETAINER GLANDS.
- PROPOSED WATER MAINS SHALL HAVE A MINIMUM COVER OF 48-INCHES COVER ABOVE THE TOP OF PIPE, UNLESS SHOWN OTHERWISE ON THE DRAWINGS OR DETAILS.
- ALL WATER SERVICES SHALL BE INSTALLED ABOVE STORM SEWERS, EXCEPT WHERE SHOWN OTHERWISE IN THE DRAWINGS.
- ELEVATION ADJUSTMENT AT CONNECTIONS MAY BE MADE WITH BENDS, OFFSETS, OR JOINT DEFLECTIONS. JOINT DEFLECTIONS SHALL NOT EXCEED FIFTY PERCENT (50%) OF MANUFACTURER'S RECOMMENDATIONS.
- TEMPORARY PRESSURE PLUGS REQUIRED FOR SEQUENCING OF CONSTRUCTION AND TESTING OF PROPOSED WATER LINES SHALL BE CONSIDERED SUBSIDIARY TO THE WORK AND SHALL BE INCLUDED IN THE PRICE BID IN THE PROPOSAL FOR VARIOUS BID ITEMS.

SEWER GENERAL NOTES

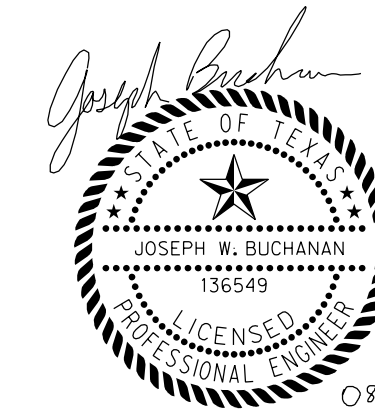
- VERIFY THAT ALL CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE FOR SANITARY SEWER ONLY. NOTIFY CITY OF ANY DISCOVERED ILLICIT CONNECTIONS.
- THE CONTRACTOR SHALL BE LIABLE FOR ALL DAMAGES TO PROPERTIES, HOMES, AND BASEMENTS FROM BACKUP, WHICH MAY RESULT DURING THE INSTALLATION OF NEW PIPE AND/OR ABANDONMENT OF EXISTING PIPE. THE CONTRACTOR WILL BE ALLOWED TO OPEN CLEAN OUTS WHERE AVAILABLE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL CLEAN UP ASSOCIATED WITH OPENING CLEAN OUTS.
- FOR ALL SANITARY SEWER SERVICE CONNECTIONS AT MANHOLES, PROVIDE A HYDRAULIC SLIDE IN ACCORDANCE WITH THE DETAILS.

LEGEND



REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



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CONSTRUCTION NOTES

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 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO.
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

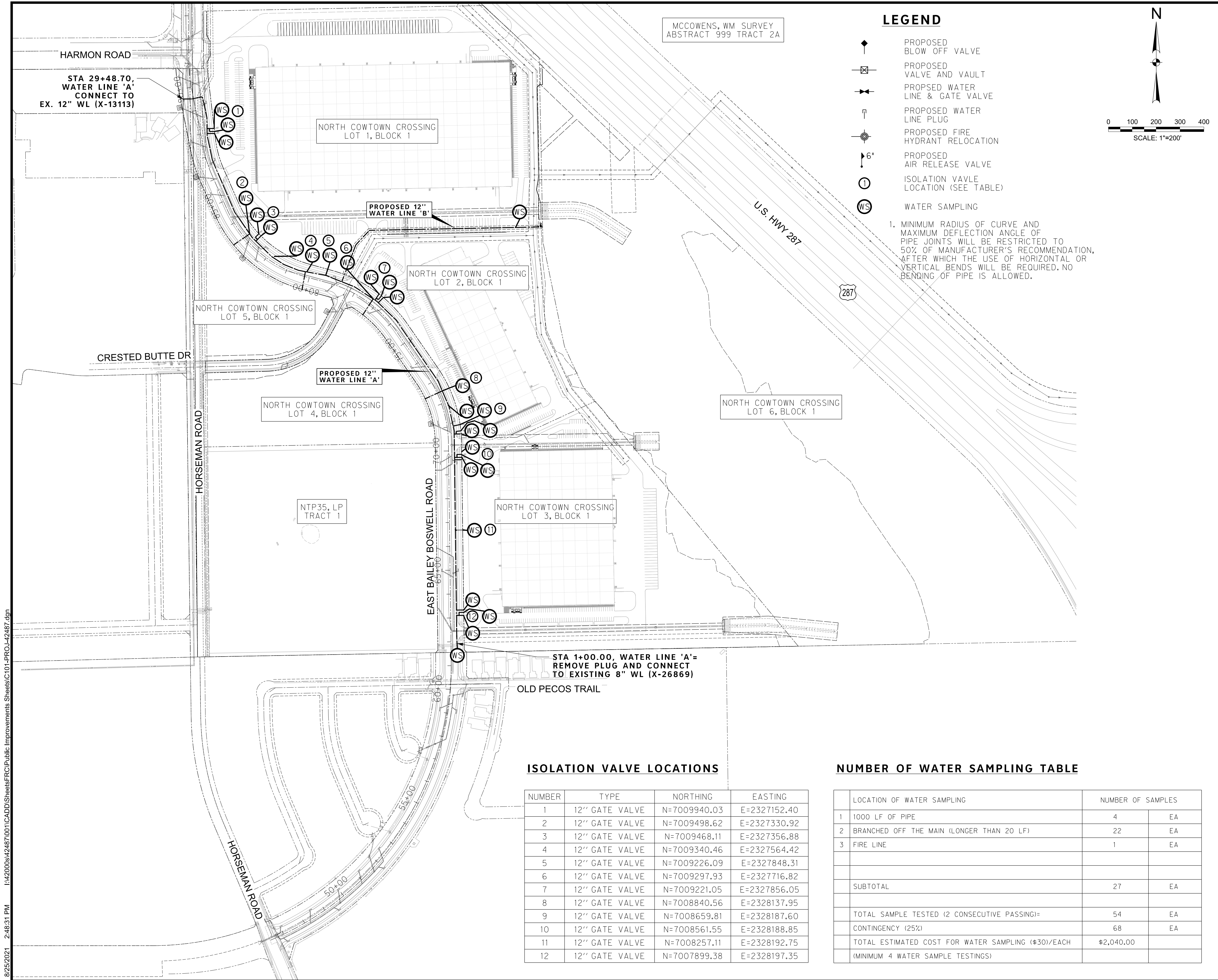
**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT
 SERVICES**

**TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 GENERAL NOTES**

WATER & SANITARY SEWER

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 5 OF 189
DRAWN: PTS			

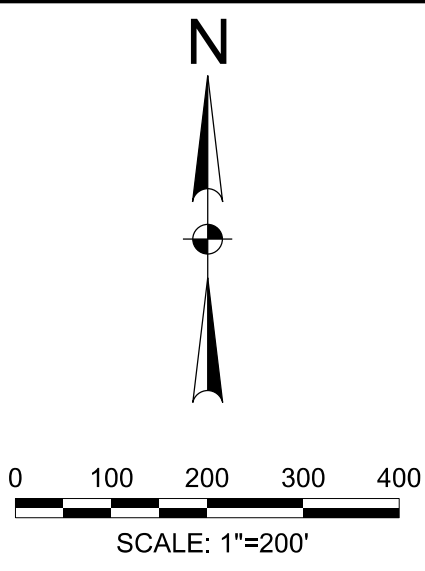


MCCOWENS, WM SURVEY
ABSTRACT 999 TRACT 2A

LEGEND

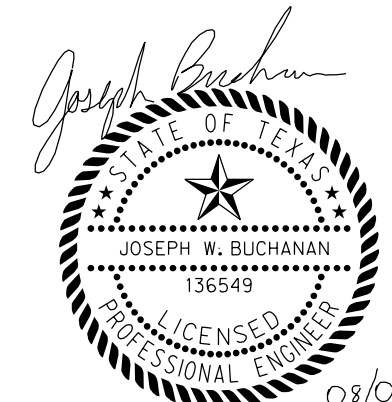
- ◆ PROPOSED BLOW OFF VALVE
- ⊠ PROPOSED VALVE AND VAULT
- ➔ PROPOSED WATER LINE & GATE VALVE
- ↑ PROPOSED WATER LINE PLUG
- ⊙ PROPOSED FIRE HYDRANT RELOCATION
- ⤴ 6" PROPOSED AIR RELEASE VALVE
- ISOLATION VALVE LOCATION (SEE TABLE)
- ⊙ WATER SAMPLING

1. MINIMUM RADIUS OF CURVE AND MAXIMUM DEFLECTION ANGLE OF PIPE JOINTS WILL BE RESTRICTED TO 50% OF MANUFACTURER'S RECOMMENDATION, AFTER WHICH THE USE OF HORIZONTAL OR VERTICAL BENDS WILL BE REQUIRED. NO BENDING OF PIPE IS ALLOWED.



REVISIONS

No.	DESCRIPTION	DATE
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2		
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 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
PROJECT LAYOUT

WATER

DESIGNED: TMW	SCALE: 1"=200'	DATE: 06/08/2021	SHEET 6 OF 189
DRAWN: PTS			

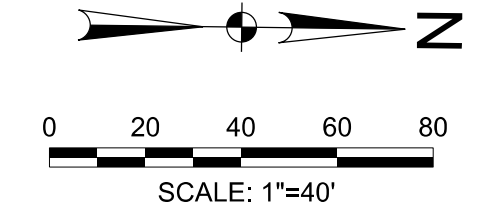
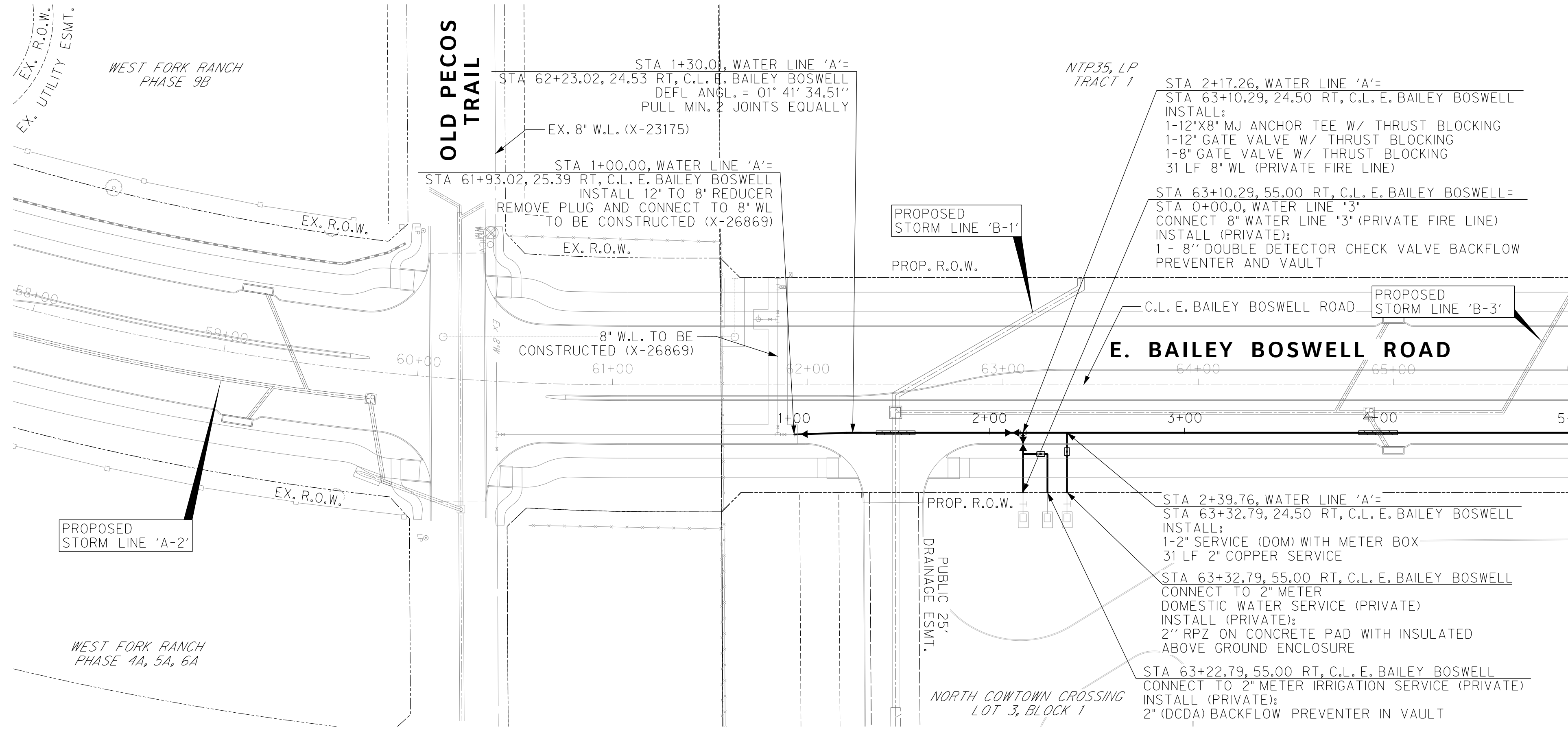
ISOLATION VALVE LOCATIONS

NUMBER	TYPE	NORTHING	EASTING
1	12" GATE VALVE	N=7009940.03	E=2327152.40
2	12" GATE VALVE	N=7009498.62	E=2327330.92
3	12" GATE VALVE	N=7009468.11	E=2327356.88
4	12" GATE VALVE	N=7009340.46	E=2327564.42
5	12" GATE VALVE	N=7009226.09	E=2327848.31
6	12" GATE VALVE	N=7009297.93	E=2327716.82
7	12" GATE VALVE	N=7009221.05	E=2327856.05
8	12" GATE VALVE	N=7008840.56	E=2328137.95
9	12" GATE VALVE	N=7008659.81	E=2328187.60
10	12" GATE VALVE	N=7008561.55	E=2328188.85
11	12" GATE VALVE	N=7008257.11	E=2328192.75
12	12" GATE VALVE	N=7007899.38	E=2328197.35

NUMBER OF WATER SAMPLING TABLE

LOCATION OF WATER SAMPLING	NUMBER OF SAMPLES	
1 1000 LF OF PIPE	4	EA
2 BRANCHED OFF THE MAIN (LONGER THAN 20 LF)	22	EA
3 FIRE LINE	1	EA
SUBTOTAL	27	EA
TOTAL SAMPLE TESTED (2 CONSECUTIVE PASSING)=	54	EA
CONTINGENCY (25%)	68	EA
TOTAL ESTIMATED COST FOR WATER SAMPLING (#30)/EACH (MINIMUM 4 WATER SAMPLE TESTINGS)	\$2,040.00	

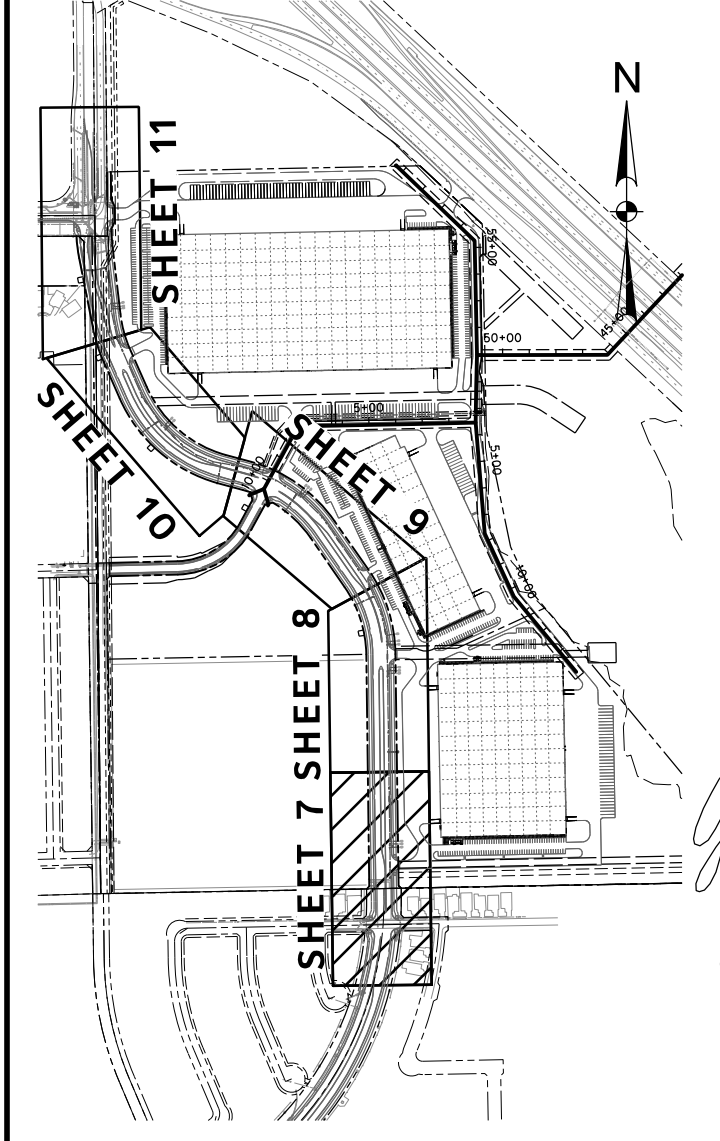
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REVISIONS		
NO.	DESCRIPTION	DATE
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KEY MAP



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WATER LINE 'A'

RESTRAINED JOINTS - ALL VERTICAL AND HORIZONTAL FITTINGS AND VALVES SHALL BE DESIGNED WITH RESTRAINED JOINTS IN ADDITION TO CONCRETE THRUST BLOCKING, ANCHOR TEES OR ANCHOR COUPLINGS SHOULD BE USED TO SECURE ALL BRANCH VALVES TO FITTINGS. TABLE 5-2 INCLUDES THE MINIMUM LENGTHS OF PIPE TO BE RESTRAINED FOR 8-INCH AND 12-INCH PVC WATER MAINS.

PIPE SIZE (INCHES)	PLUGS, TEES, AND VALVES	BENDS*			
		90°	45°	22.5°	11.25°
8	88 ft	33 ft	14 ft	7 ft	4 ft
12	126 ft	45 ft	19 ft	9 ft	5 ft

*LENGTH TO BE RESTRAINED ON EACH SIDE OF THE BEND. ASSUMPTIONS: 250 PSI TEST PRESSURE, 1.5 SAFETY FACTOR, SP SOIL TYPE, TYPE 4 TRENCH

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

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HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
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N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
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DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
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 MAP NO. XXXX-XXX

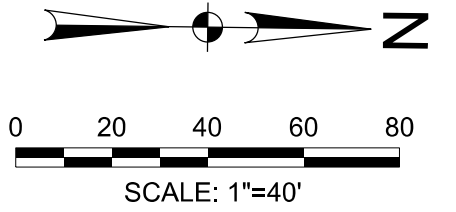
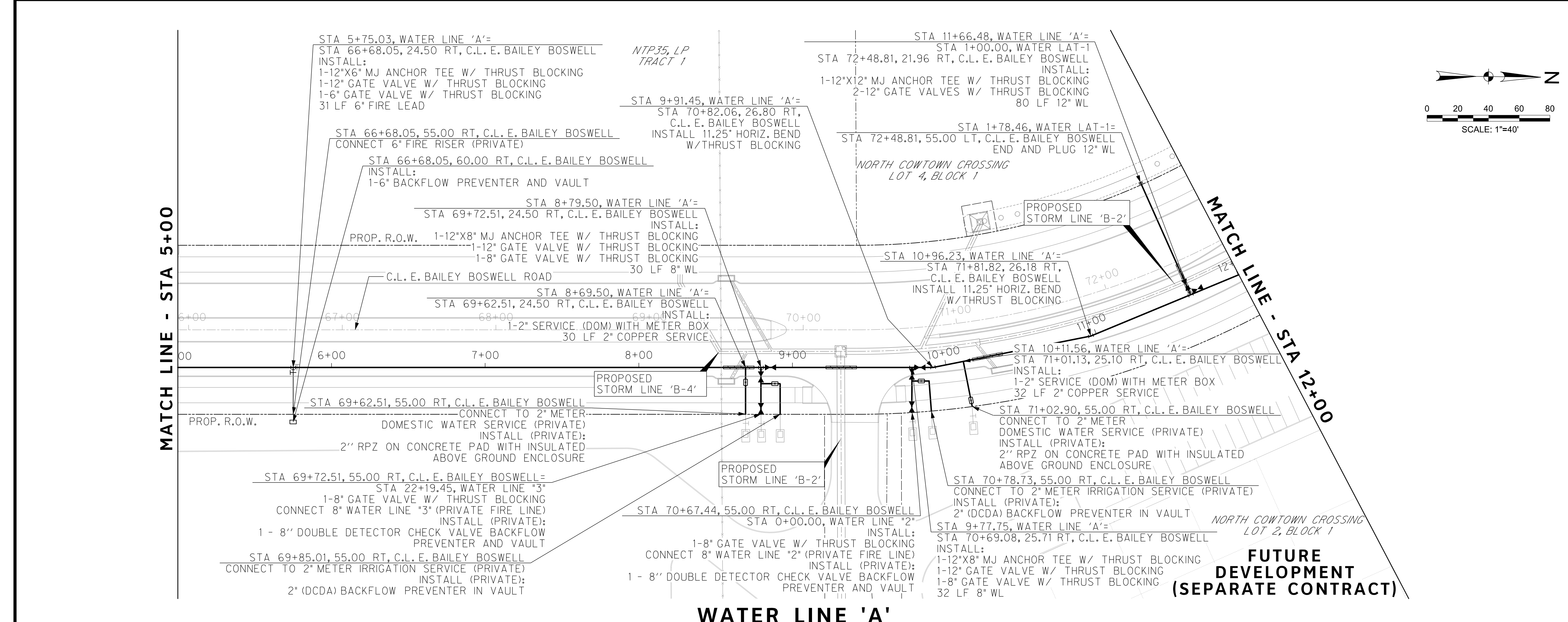
CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
WATERLINE 'A'
BEGIN TO STA 5+00

PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 7 OF 189
DRAWN: PTS			

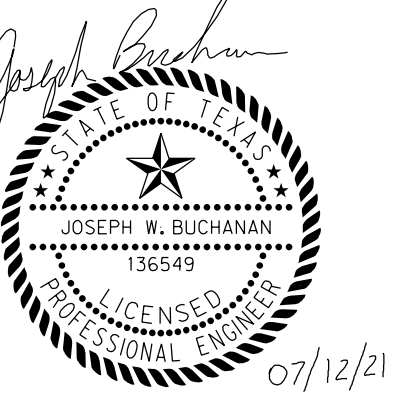
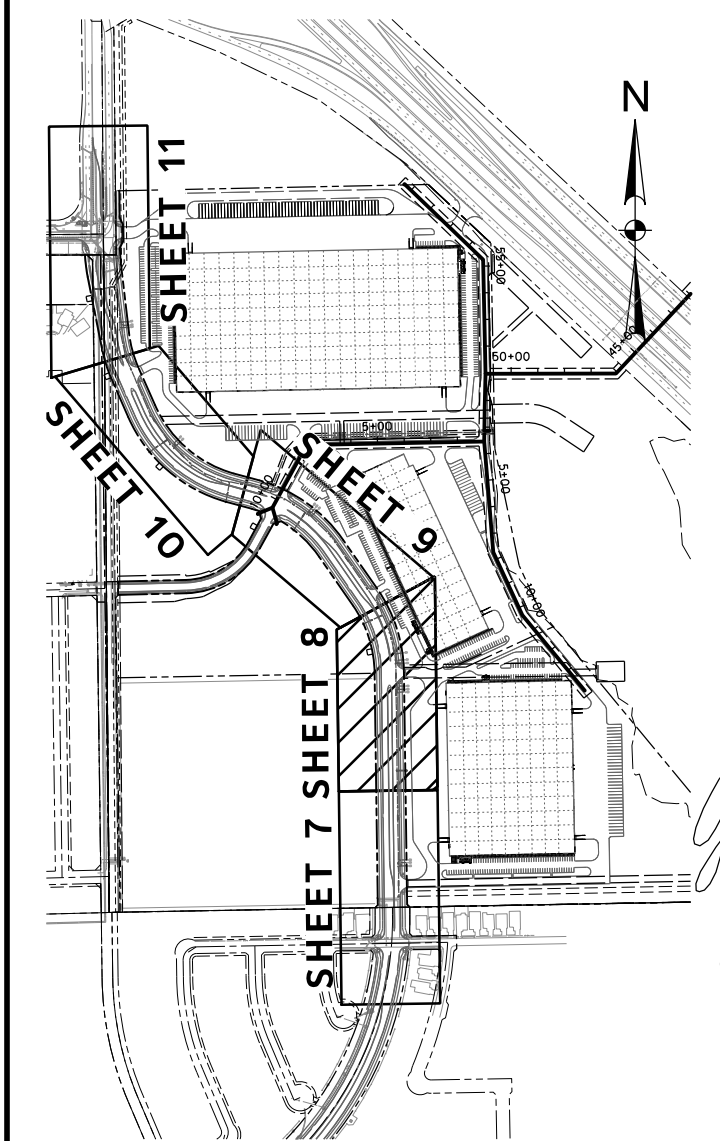
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REVISIONS		
No.	DESCRIPTION	DATE
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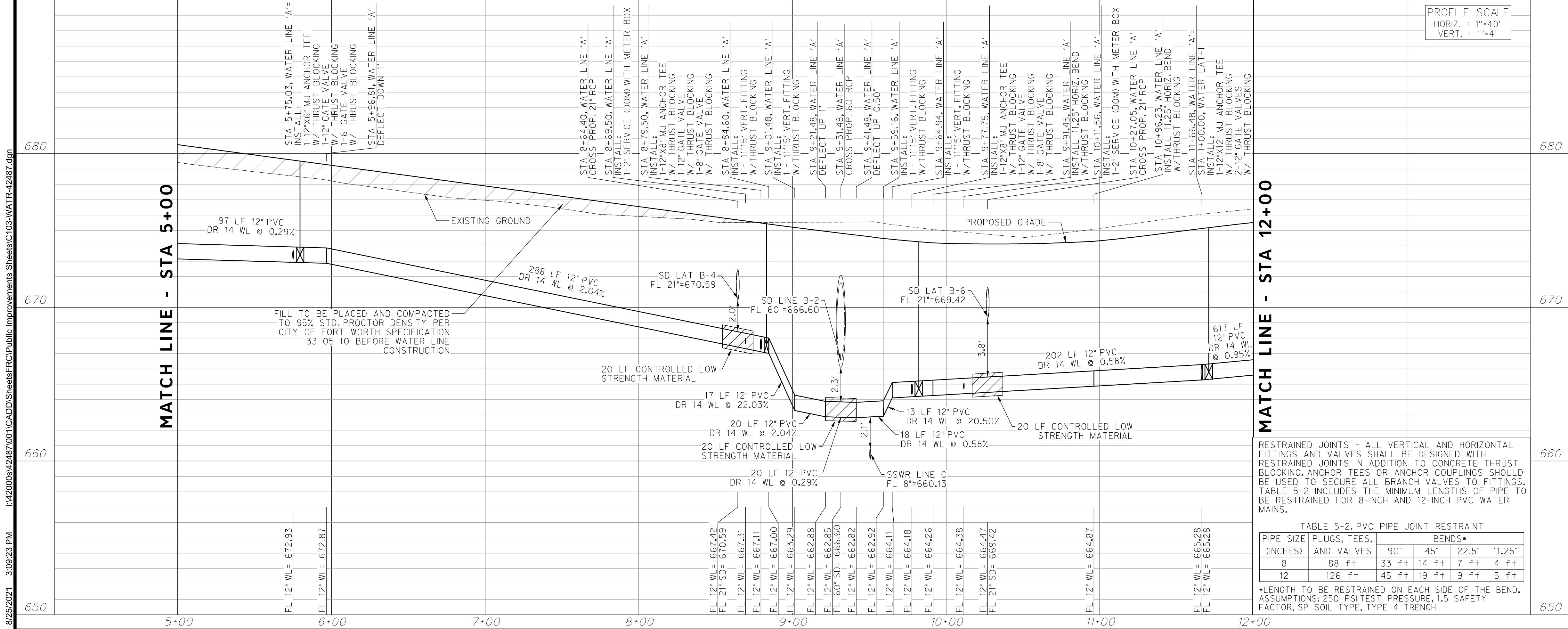
KEY MAP



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FUTURE DEVELOPMENT (SEPARATE CONTRACT)

WATER LINE 'A'



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

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TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
MAP NO. XXXX-XXX

**CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES**

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

**EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
WATERLINE 'A'
STA 5+00 TO STA 12+00**

PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 8 OF 189
DRAWN: PTS			

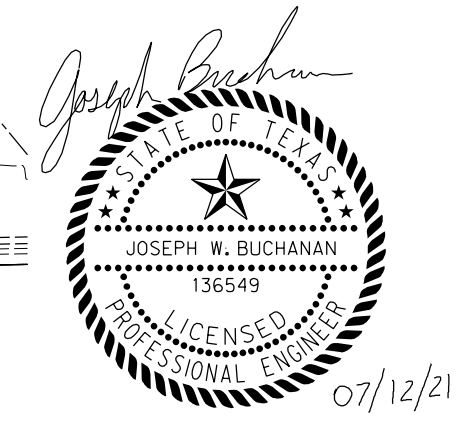
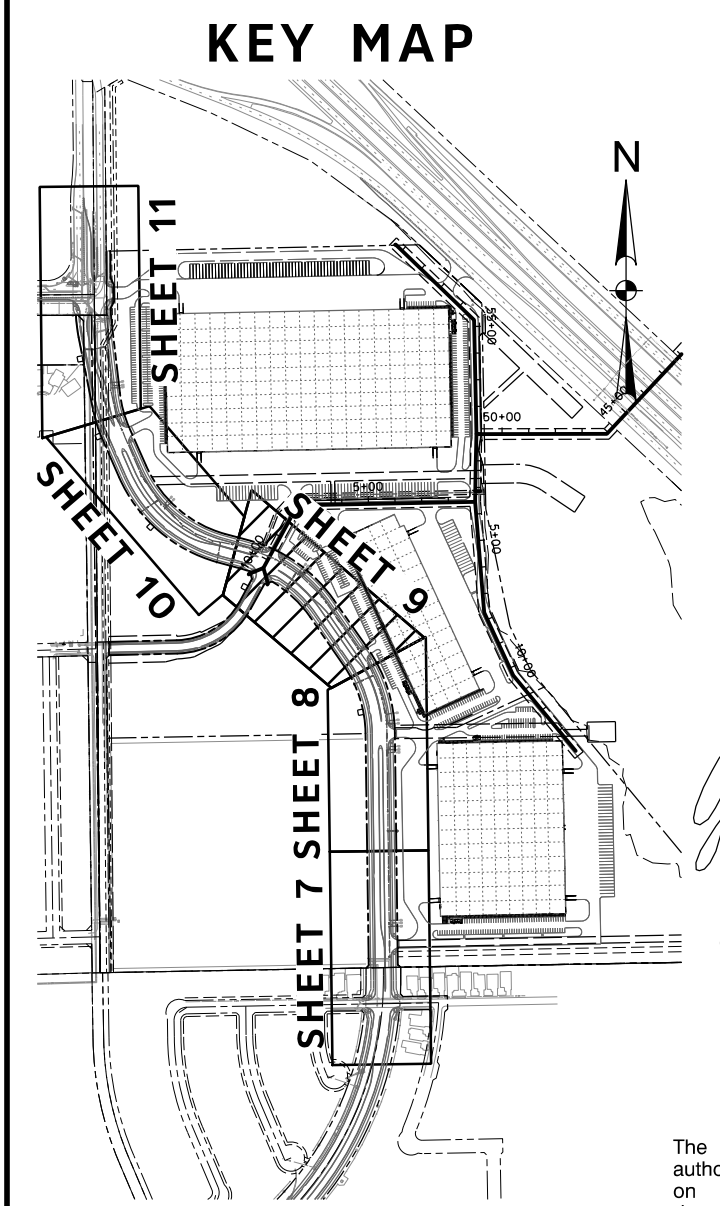
TABLE 5-2. PVC PIPE JOINT RESTRAINT

PIPE SIZE (INCHES)	PLUGS, TEES, AND VALVES	BENDS*			
		90°	45°	22.5°	11.25°
8	88 ft	33 ft	14 ft	7 ft	4 ft
12	126 ft	45 ft	19 ft	9 ft	5 ft

*LENGTH TO BE RESTRAINED ON EACH SIDE OF THE BEND. ASSUMPTIONS: 250 PSI TEST PRESSURE, 1.5 SAFETY FACTOR, SP SOIL TYPE, TYPE 4 TRENCH

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REVISIONS		
No.	DESCRIPTION	DATE
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CONSTRUCTION NOTES

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AT&T 1-800-878-8711
 FORT WORTH WATER DEPT.-FIELD OPERATIONS WATER (817) 925-2360
 FORT WORTH WATER DEPT.-FIELD OPERATIONS SANITARY SEWER (817) 223-7438
 FORT WORTH WATER DEPT.-FIELD OPERATIONS LOCATE (817) 392-6296
 FORT WORTH T&P (817) 871-8100
 ATMOS ENERGY (817) 215-4366
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 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

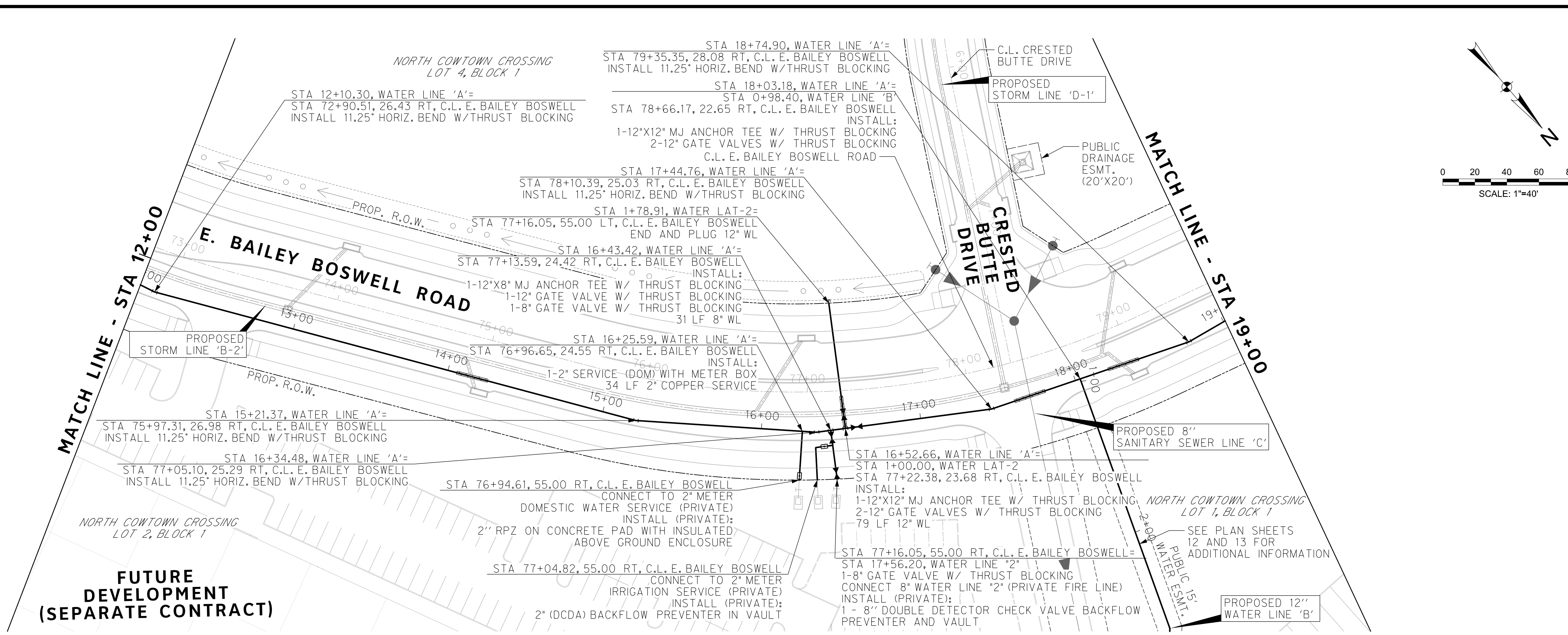
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

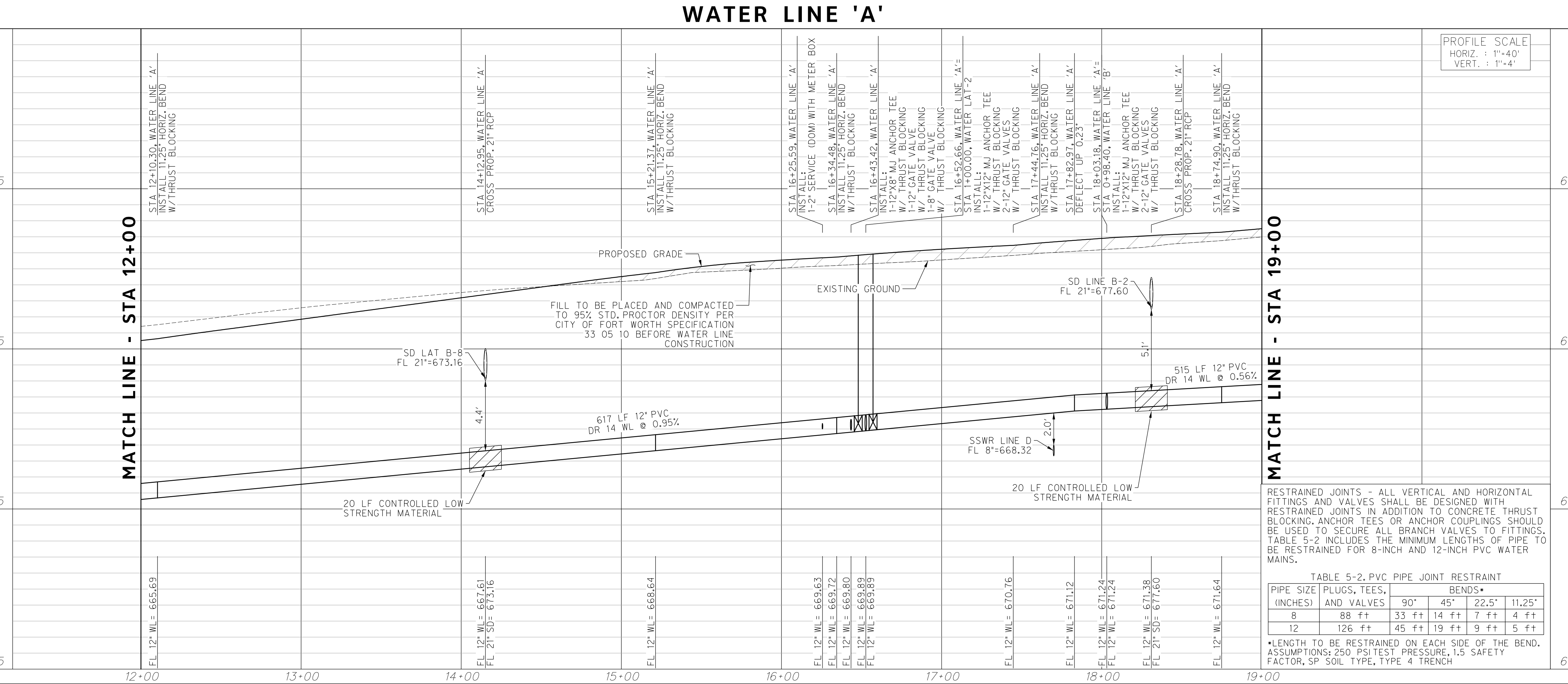
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
WATERLINE 'A'
 STA 12+00 TO STA 19+00

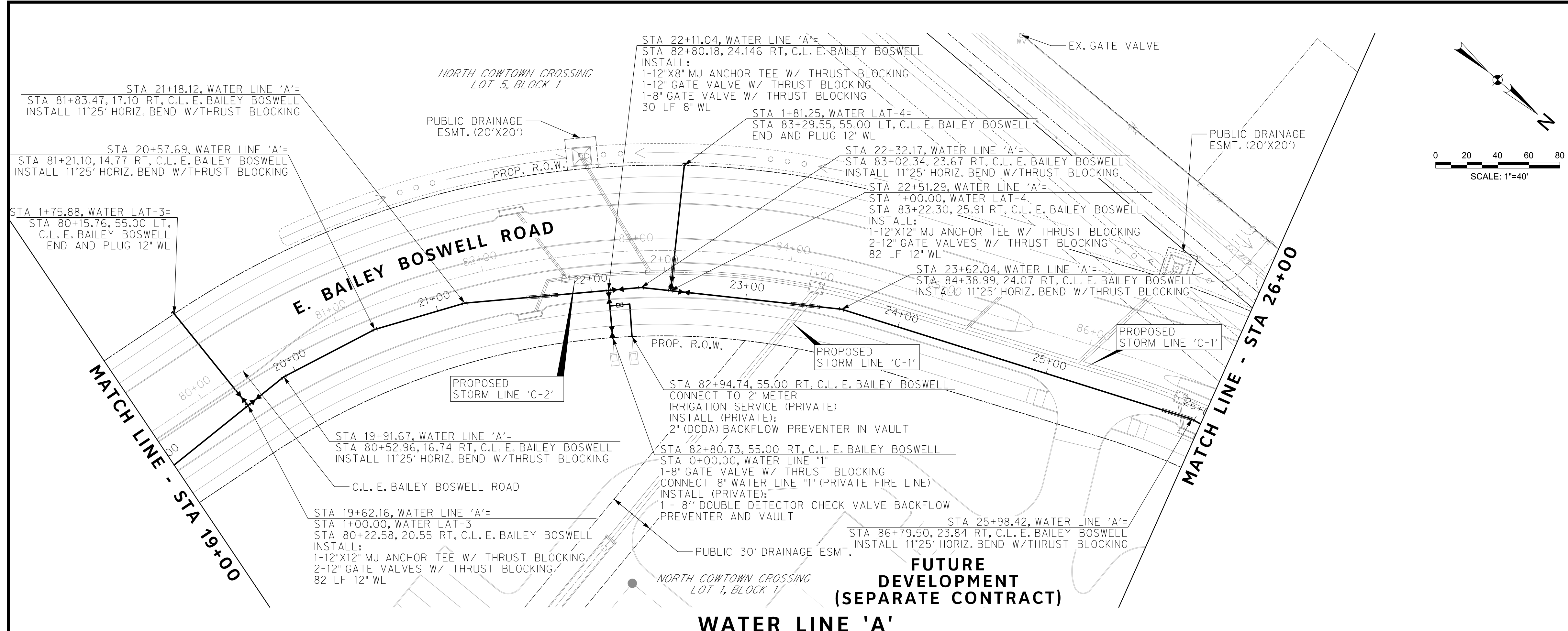
PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 9 OF 189
DRAWN: PTS			



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

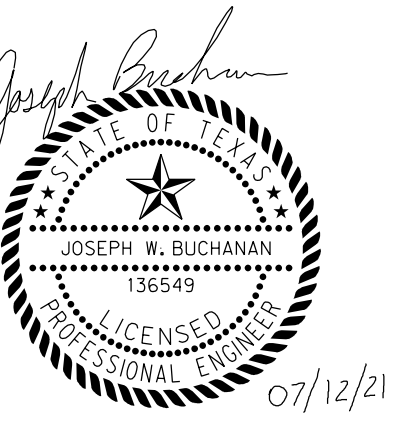
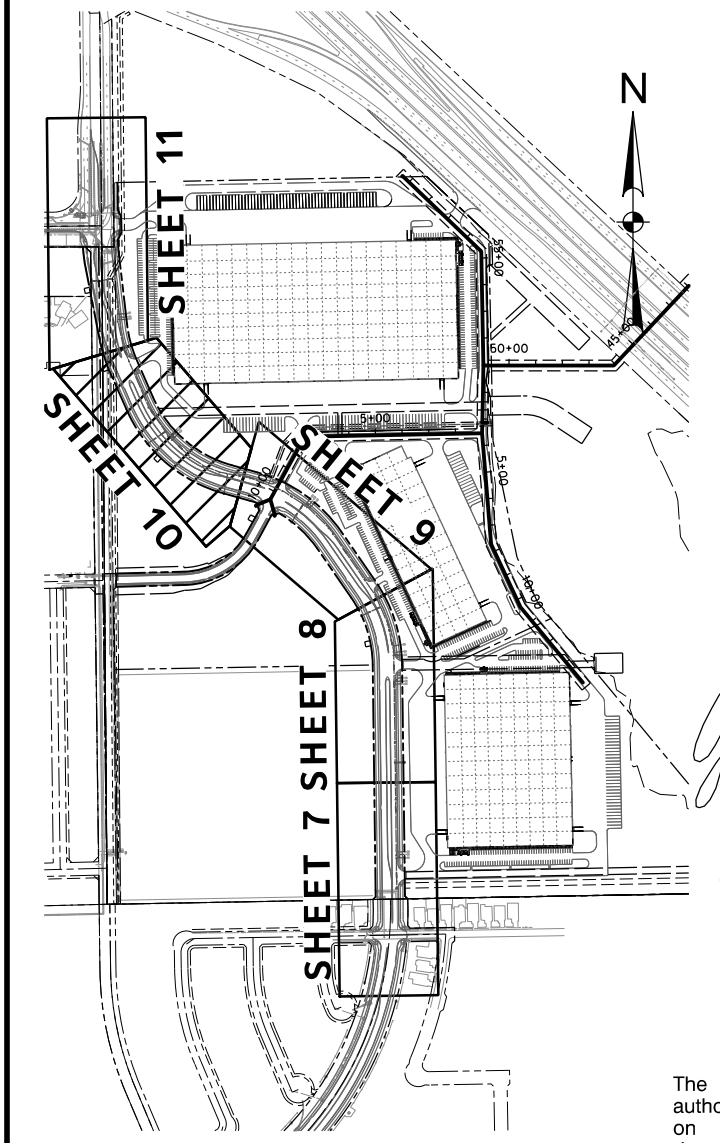




REVISIONS		
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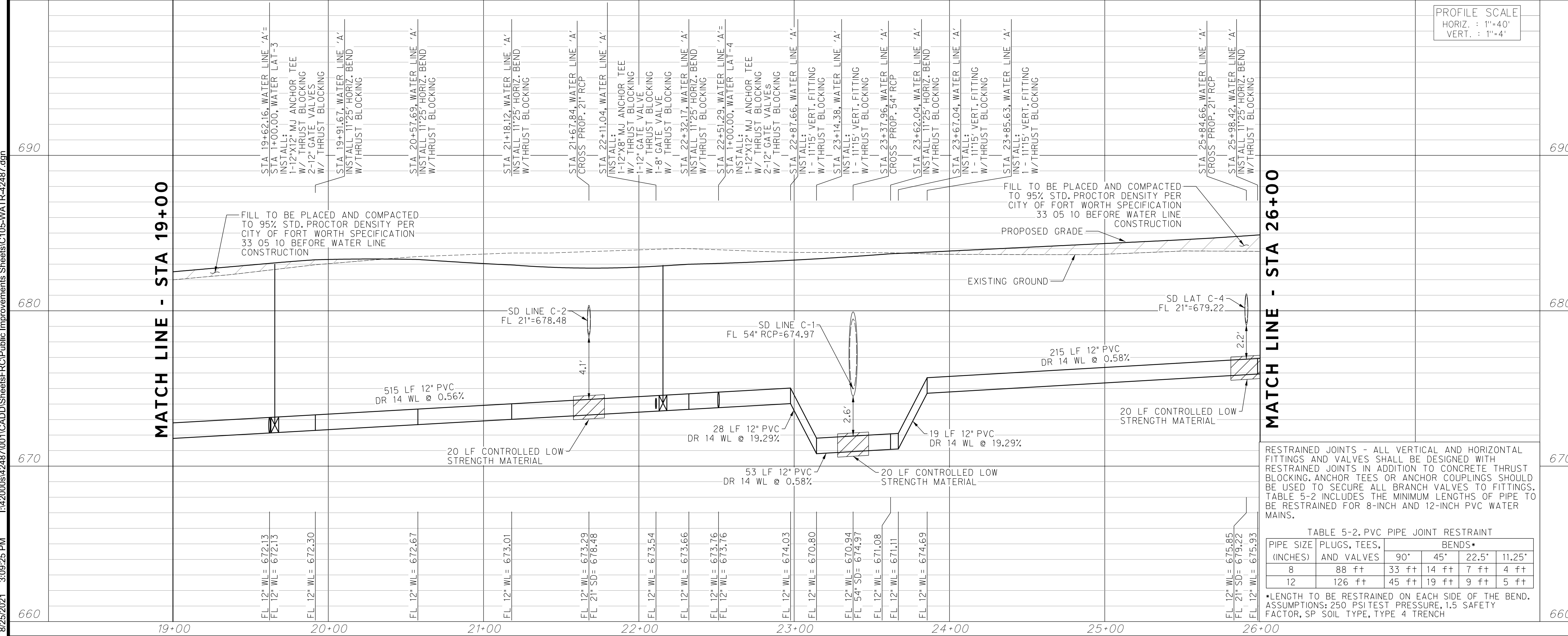
KEY MAP



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FUTURE DEVELOPMENT (SEPARATE CONTRACT) WATER LINE 'A'

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



CONSTRUCTION NOTES

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 FORT WORTH T&PW (817) 871-8100
 ATMOS ENERGY (817) 215-4366
 ONCOR GAS & ELECTRIC (817) 215-6214
 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES**

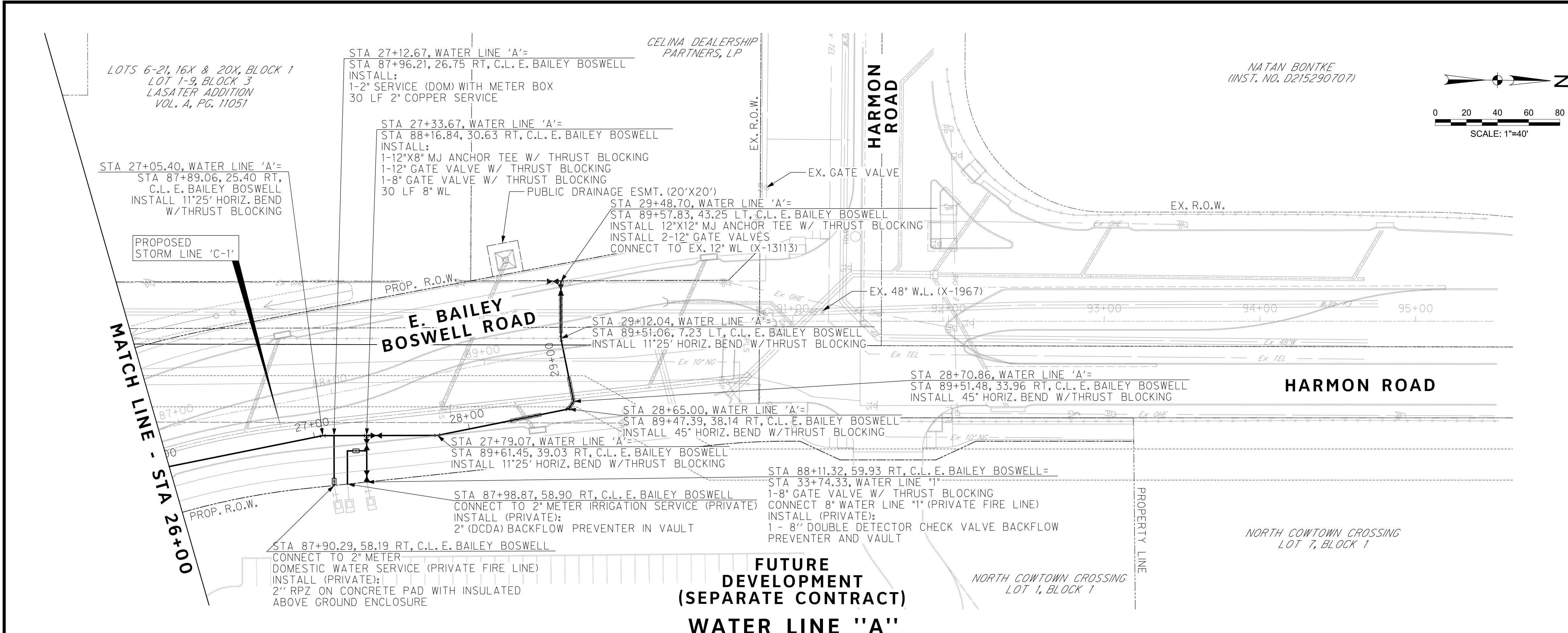
**TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 WATERLINE 'A'
 STA 19+00 TO STA 26+00**

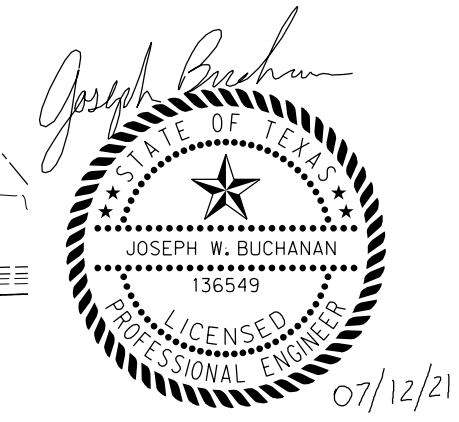
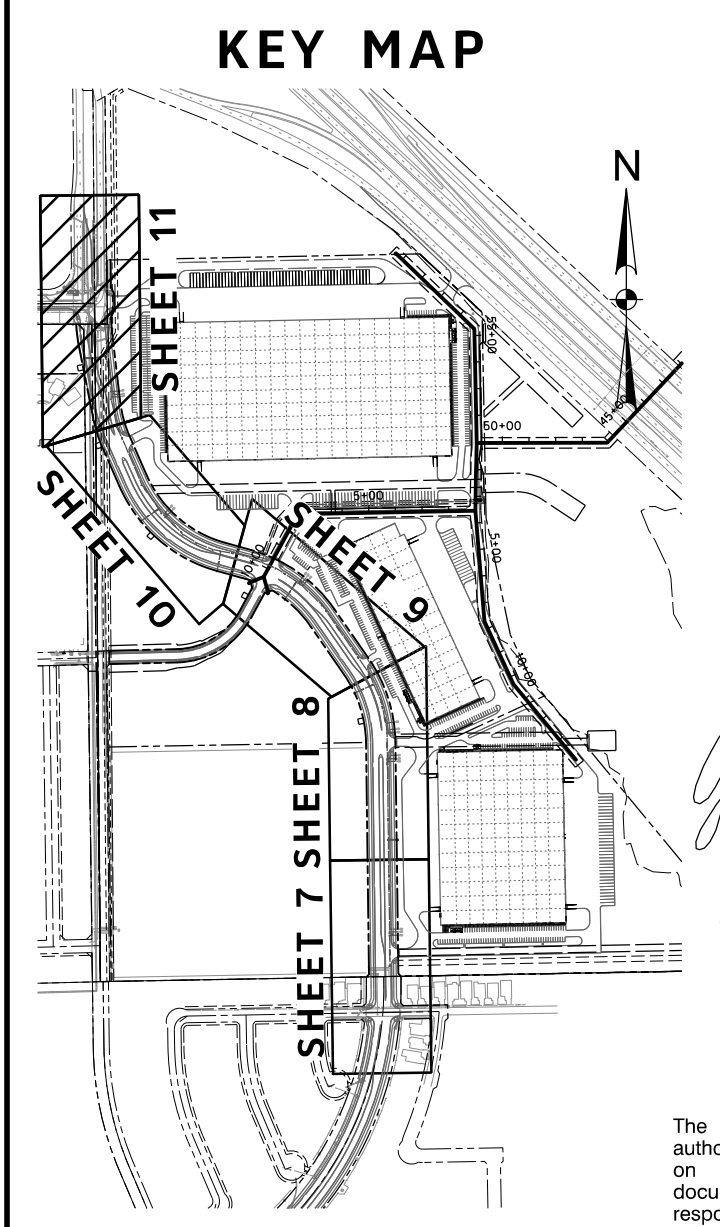
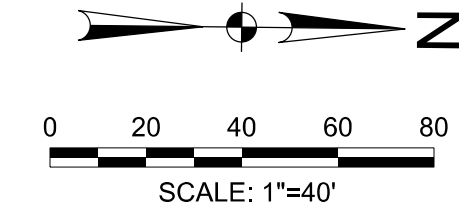
PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 10 OF 189
DRAWN: PTS			

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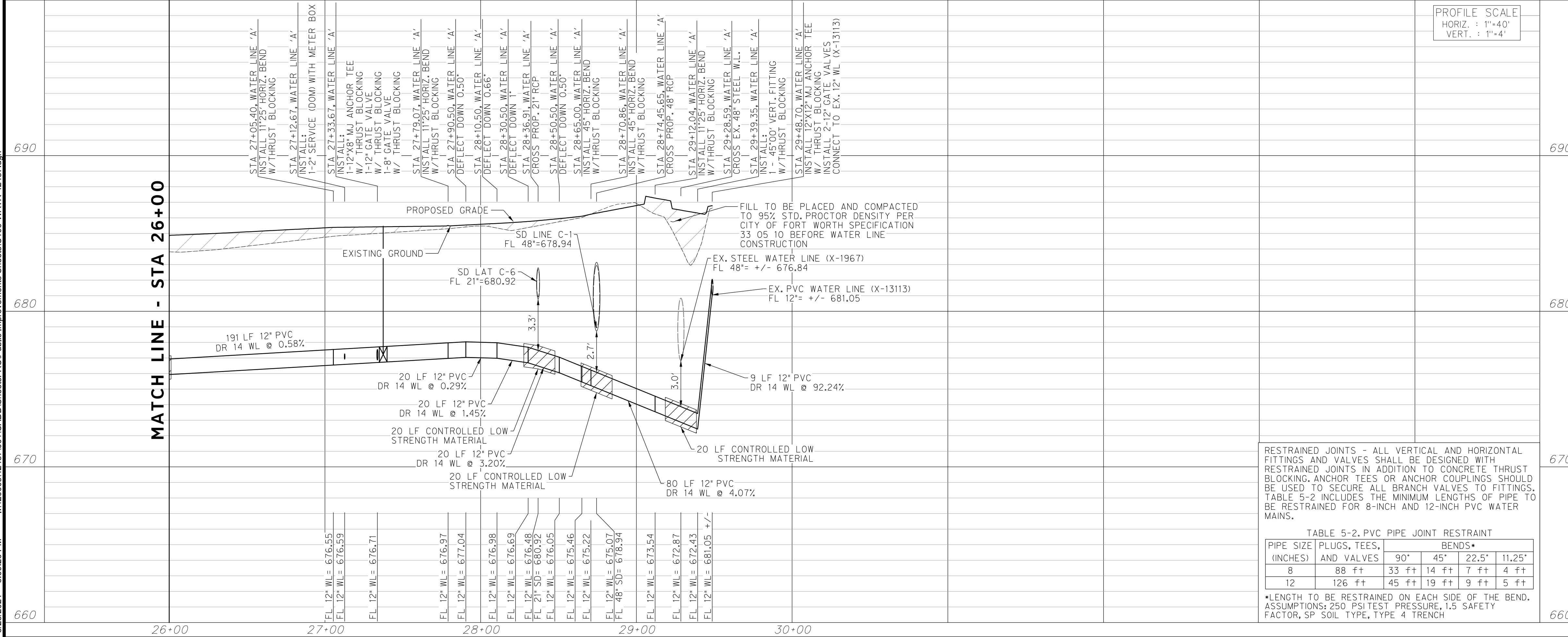


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FUTURE DEVELOPMENT (SEPARATE CONTRACT) WATER LINE "A"



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

CONSTRUCTION NOTES

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TXU ENERGY 1-800-233-2133
SBC TELEPHONE (817) 338-6819
CHARTER COMM. (817) 509-6272 EXT. 3363
ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97

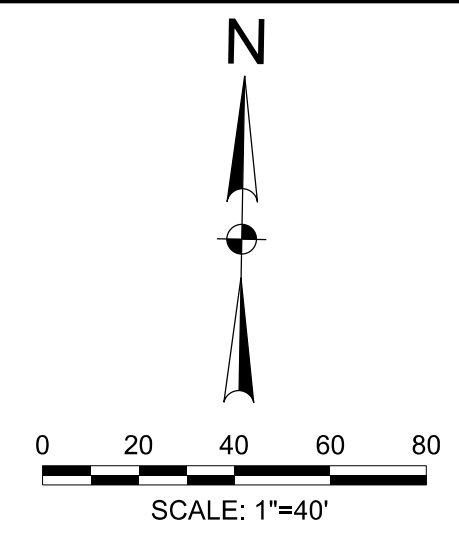
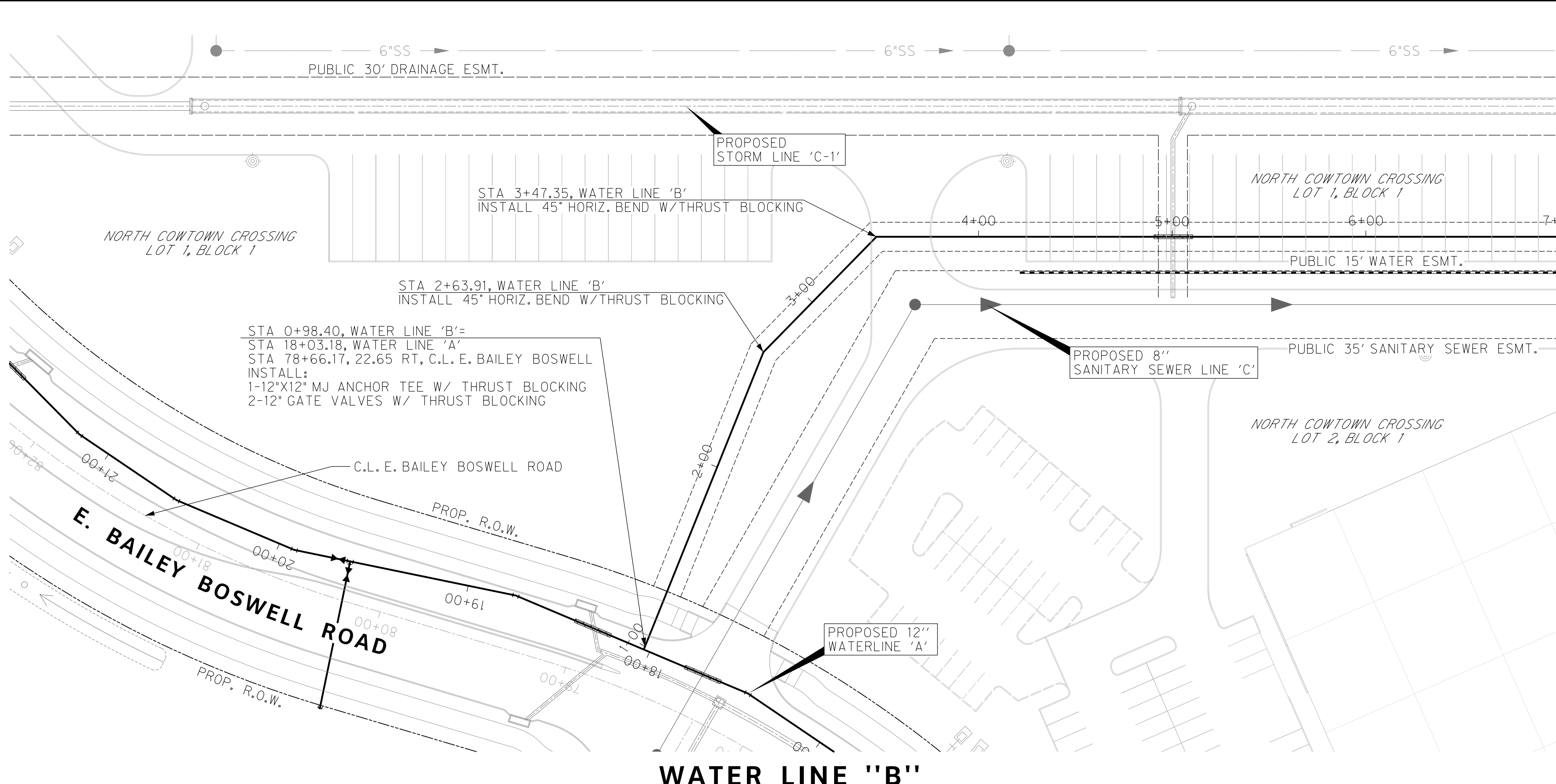
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CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
MAP NO. XXXX-XXX

**CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES
TRANSPORTATION PROGRAMMING &
INFRASTRUCTURE PLAN REVIEW CENTER**

**EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
WATERLINE 'A'
STA 26+00 TO END**

PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 11 OF 189
DRAWN: PTS			



REVISIONS		
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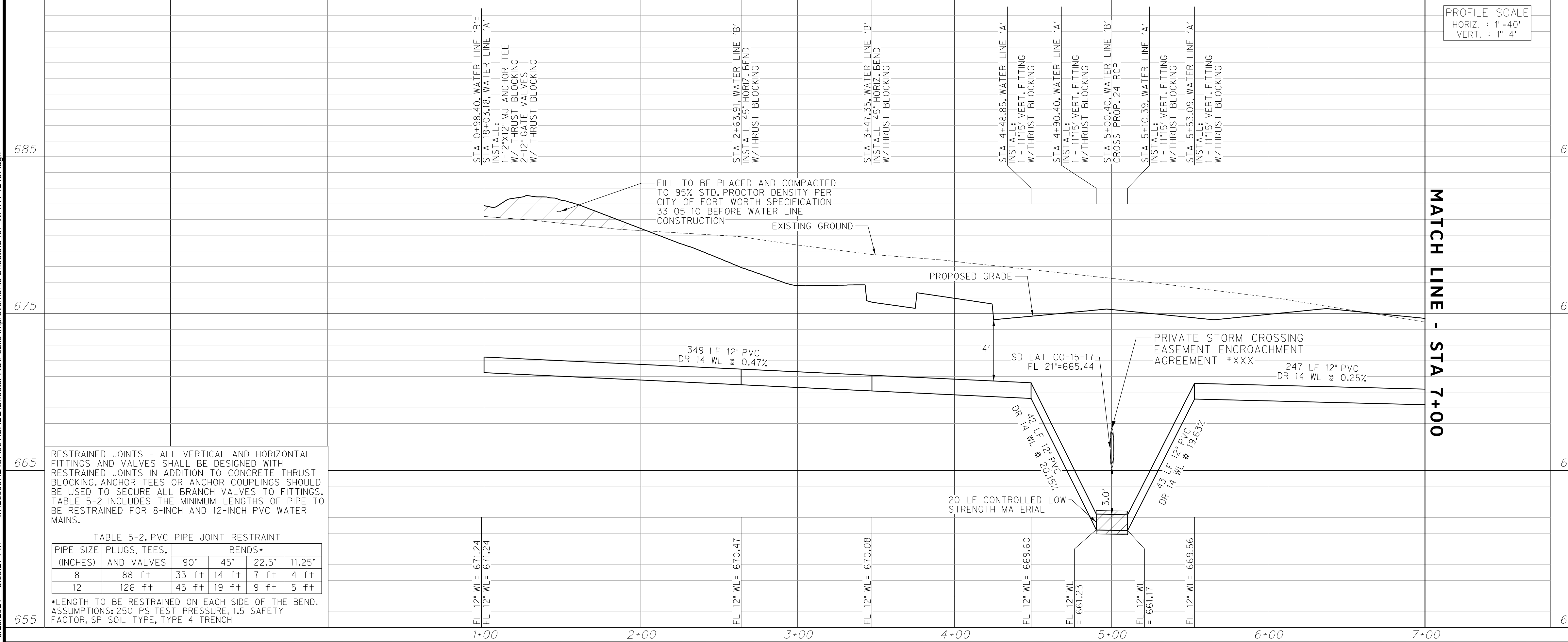


KEY MAP

Professional Engineer Seal:
 JOSEPH W. BUCHANAN
 LICENSED PROFESSIONAL ENGINEER
 135549
 07/12/21

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WATER LINE "B"



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

MATCH LINE - STA 7+00

CONSTRUCTION NOTES

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ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
WATERLINE 'B'
BEGIN TO STA 7+00

PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 12 OF 189
DRAWN: PTS			

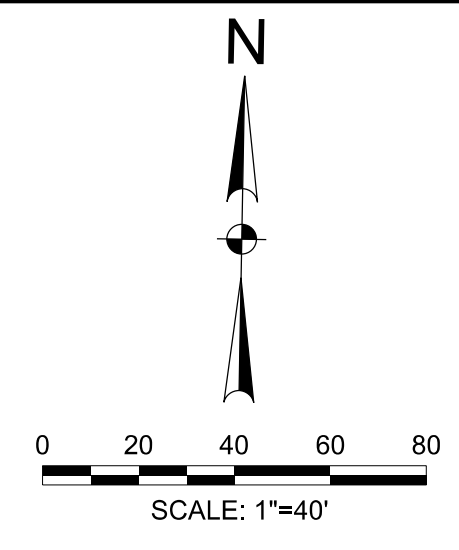
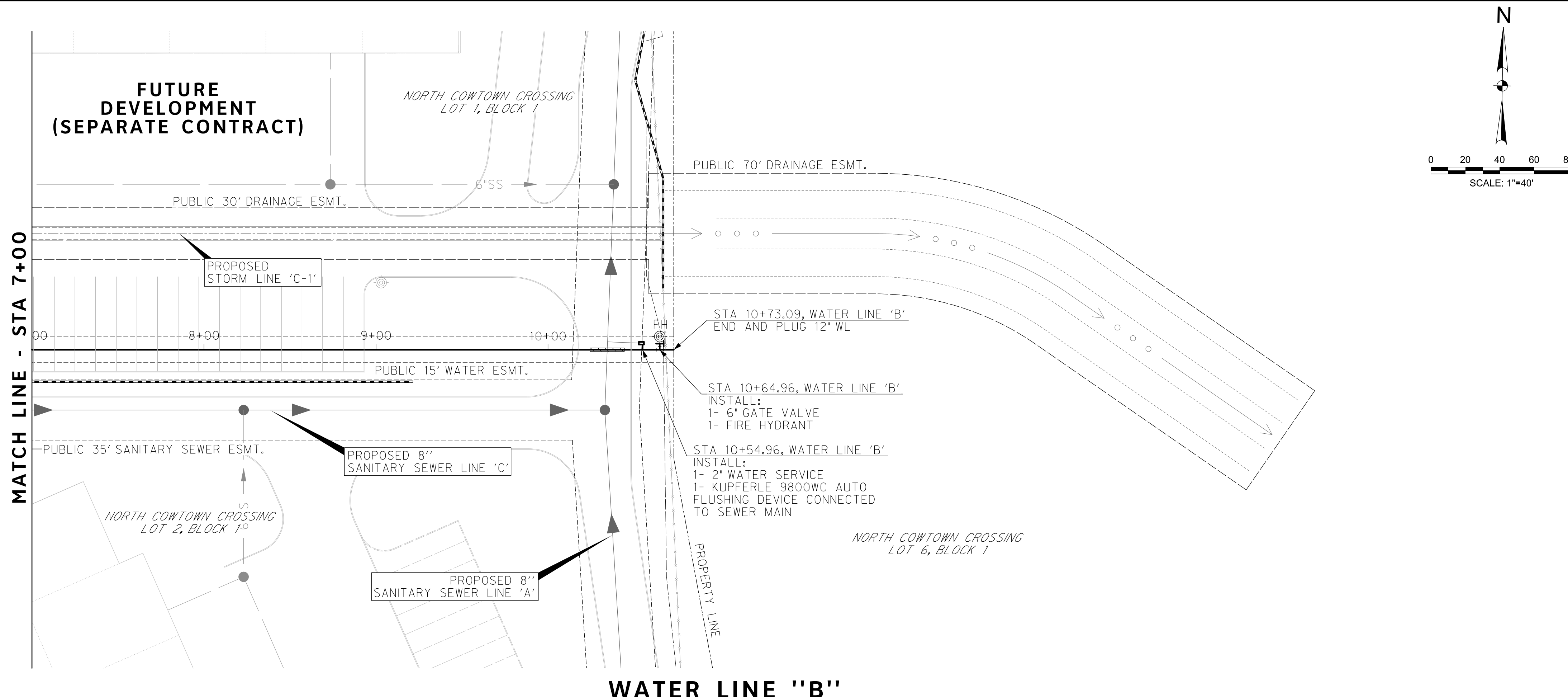
RESTRAINED JOINTS - ALL VERTICAL AND HORIZONTAL FITTINGS AND VALVES SHALL BE DESIGNED WITH RESTRAINED JOINTS IN ADDITION TO CONCRETE THRUST BLOCKING. ANCHOR TEES OR ANCHOR COUPLINGS SHOULD BE USED TO SECURE ALL BRANCH VALVES TO FITTINGS. TABLE 5-2 INCLUDES THE MINIMUM LENGTHS OF PIPE TO BE RESTRAINED FOR 8-INCH AND 12-INCH PVC WATER MAINS.

TABLE 5-2. PVC PIPE JOINT RESTRAINT

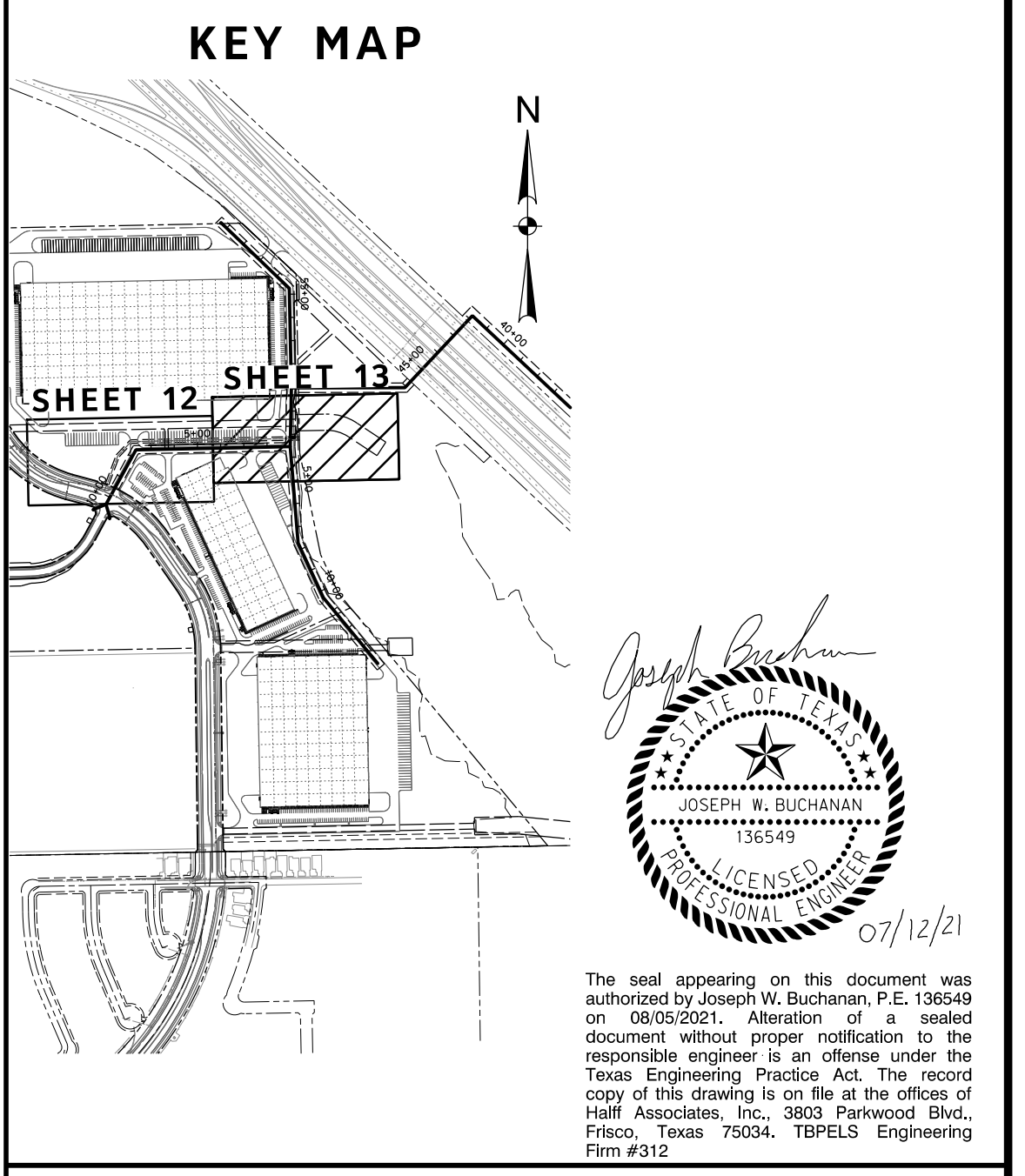
PIPE SIZE (INCHES)	PLUGS, TEES, AND VALVES	BENDS*			
		90°	45°	22.5°	11.25°
8	88 ft	33 ft	14 ft	7 ft	4 ft
12	126 ft	45 ft	19 ft	9 ft	5 ft

*LENGTH TO BE RESTRAINED ON EACH SIDE OF THE BEND. ASSUMPTIONS: 250 PSI TEST PRESSURE, 1.5 SAFETY FACTOR, SP SOIL TYPE, TYPE 4 TRENCH

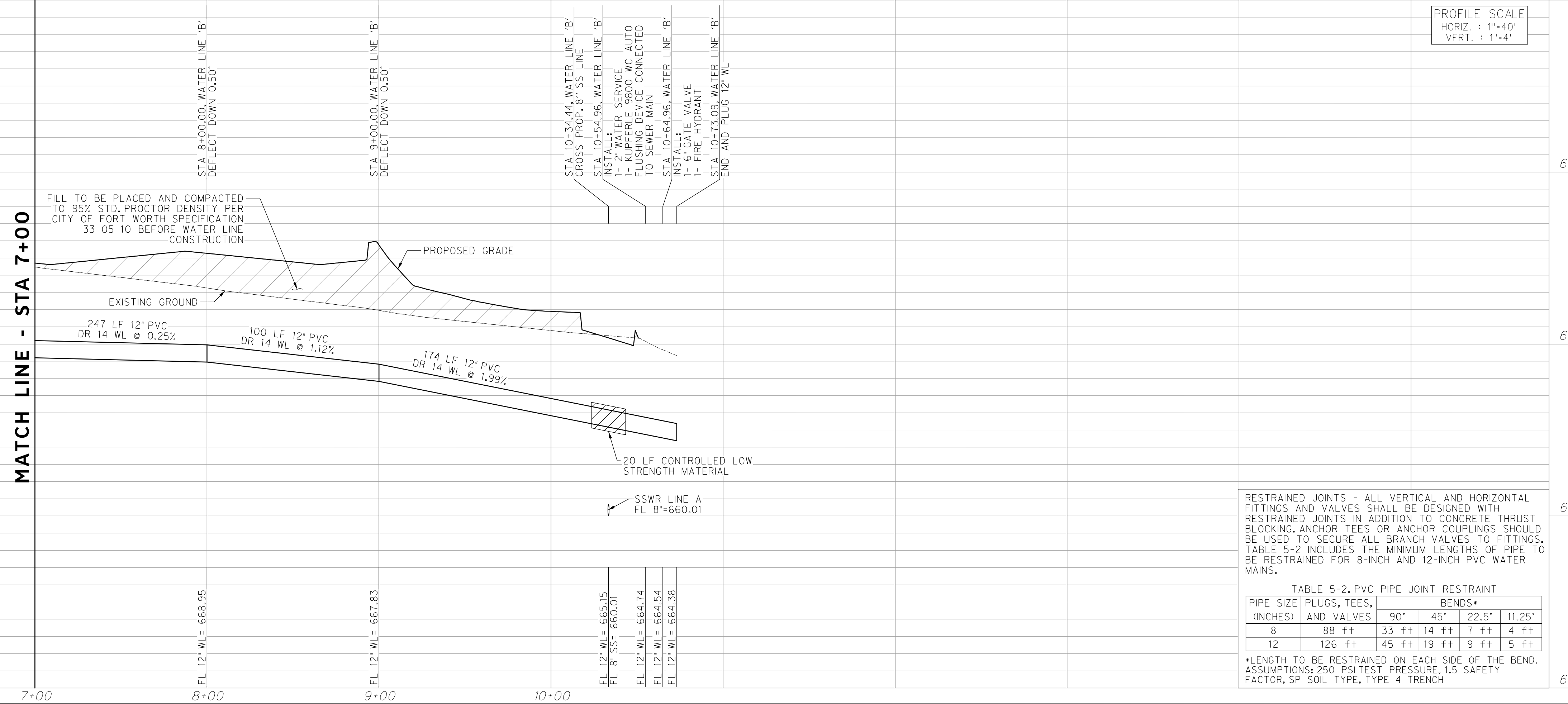
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REVISIONS		
NO.	DESCRIPTION	DATE
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3		



WATER LINE "B"



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

CONSTRUCTION NOTES

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DOE # K-2840
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MAP NO. XXXX-XXX

**CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT
SERVICES**

**TRANSPORTATION PROGRAMMING &
INFRASTRUCTURE PLAN REVIEW CENTER**

**EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
WATERLINE 'B'
STA 7+00 TO END**

PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 13 OF 189
DRAWN: PTS			

RESTRAINED JOINTS - ALL VERTICAL AND HORIZONTAL FITTINGS AND VALVES SHALL BE DESIGNED WITH RESTRAINED JOINTS IN ADDITION TO CONCRETE THRUST BLOCKING. ANCHOR TEES OR ANCHOR COUPLINGS SHOULD BE USED TO SECURE ALL BRANCH VALVES TO FITTINGS. TABLE 5-2 INCLUDES THE MINIMUM LENGTHS OF PIPE TO BE RESTRAINED FOR 8-INCH AND 12-INCH PVC WATER MAINS.

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*LENGTH TO BE RESTRAINED ON EACH SIDE OF THE BEND. ASSUMPTIONS: 250 PSI TEST PRESSURE, 1.5 SAFETY FACTOR, SP SOIL TYPE, TYPE 4 TRENCH

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WATER LAT-1

WATER LAT-2

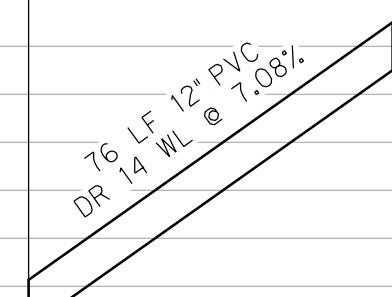
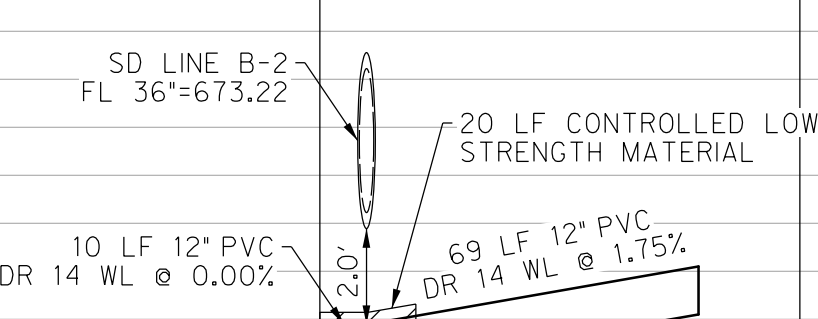
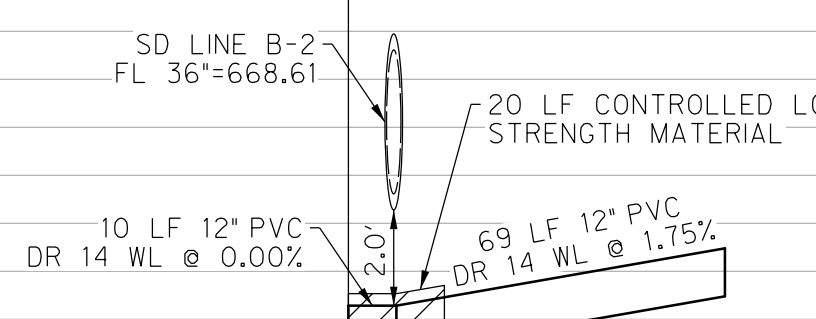
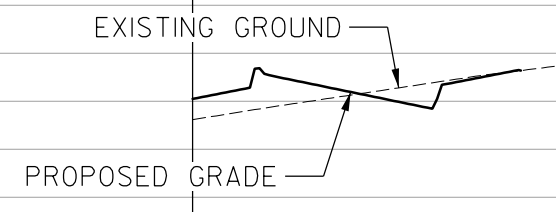
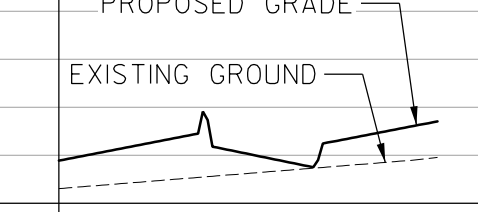
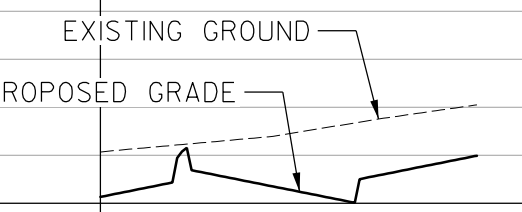
WATER LAT-3

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

STA 1+00.00, WATER LAT-1
STA 1+66.48, WATER LINE 'A'
INSTALL:
1-12"X12" MJ ANCHOR TEE
W/ THRUST BLOCKING
2-12" GATE VALVES
W/ THRUST BLOCKING
STA 1+10.00, WATER LAT-1
DEFLECT UP 1'
STA 1+78.46, WATER LAT-1
END AND PLUG 12" WL

STA 1+00.00, WATER LAT-2
STA 16+52.66, WATER LINE 'A'
INSTALL:
1-12"X12" MJ ANCHOR TEE
W/ THRUST BLOCKING
2-12" GATE VALVES
W/ THRUST BLOCKING
STA 1+10.00, WATER LAT-2
DEFLECT UP 1'
STA 1+78.91, WATER LAT-2
END AND PLUG 12" WL

STA 1+00.00, WATER LAT-3
STA 19+62.16, WATER LINE 'A'
INSTALL:
1-12"X12" MJ ANCHOR TEE
W/ THRUST BLOCKING
2-12" GATE VALVES
W/ THRUST BLOCKING
STA 1+75.88, WATER LAT-3
END AND PLUG 12" WL



FL 12" WL = 665.28
FL 12" WL = 665.28
FL 12" WL = 665.28
FL 12" WL = 666.48

FL 12" WL = 669.89
FL 12" WL = 669.89
FL 12" WL = 669.89
FL 12" WL = 671.10

FL 12" WL = 672.13
FL 12" WL = 672.13
FL 12" WL = 677.50

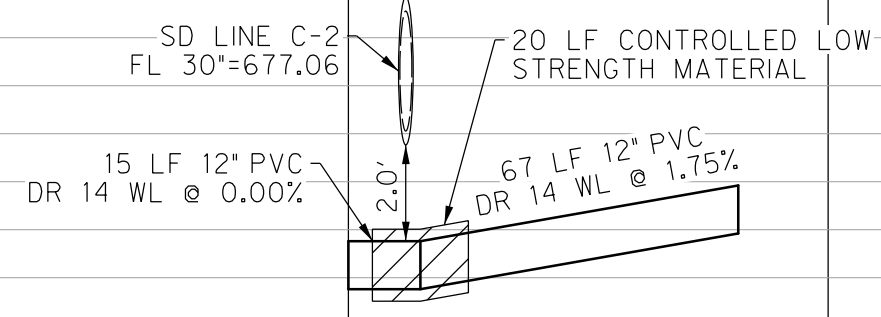
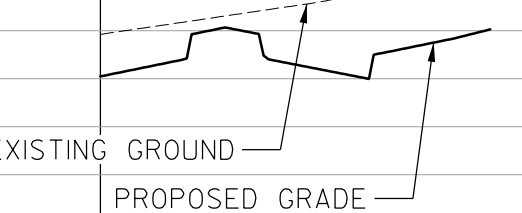
1+00

1+00

1+00

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

STA 1+00.00, WATER LAT-4
STA 22+51.29, WATER LINE 'A'
INSTALL:
1-12"X12" MJ ANCHOR TEE
W/ THRUST BLOCKING
2-12" GATE VALVES
W/ THRUST BLOCKING
STA 1+15.00, WATER LAT-4
DEFLECT UP 1'
STA 1+81.25, WATER LAT-3
END AND PLUG 12" WL

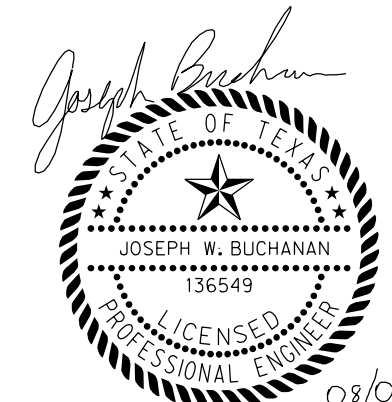
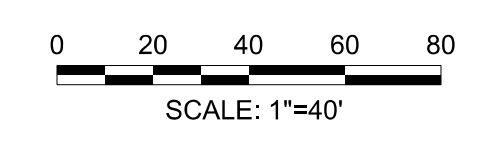


FL 12" WL = 673.76
FL 12" WL = 673.76
FL 12" WL = 673.76
FL 12" WL = 674.92

WATER LAT-4

1+00

REVISIONS		
No.	DESCRIPTION	DATE
1		
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3		



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CONSTRUCTION NOTES

NOTE: ALL DIMENSIONS AND STATION/OFFSETS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED ON PLANS.
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AT&T 1-800-878-8711
FORT WORTH WATER DEPT.-FIELD OPERATIONS WATER (817) 925-2360
FORT WORTH WATER DEPT.-FIELD OPERATIONS SANITARY SEWER (817) 223-7438
FORT WORTH WATER DEPT.-FIELD OPERATIONS LOCATE (817) 392-8296
FORT WORTH T&PW (817) 871-8100
ATMOS ENERGY (817) 215-4366
ONCOR GAS & ELECTRIC (817) 215-6214
TXU ENERGY 1-800-233-2133
SBC TELEPHONE (817) 338-6819
CHARTER COMM. (817) 509-6272 EXT. 3363
ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
CITY PROJECT # 103320 MAPSCO NO.
TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXX 119E AND 119F
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
MAP NO. XXXX-XXX

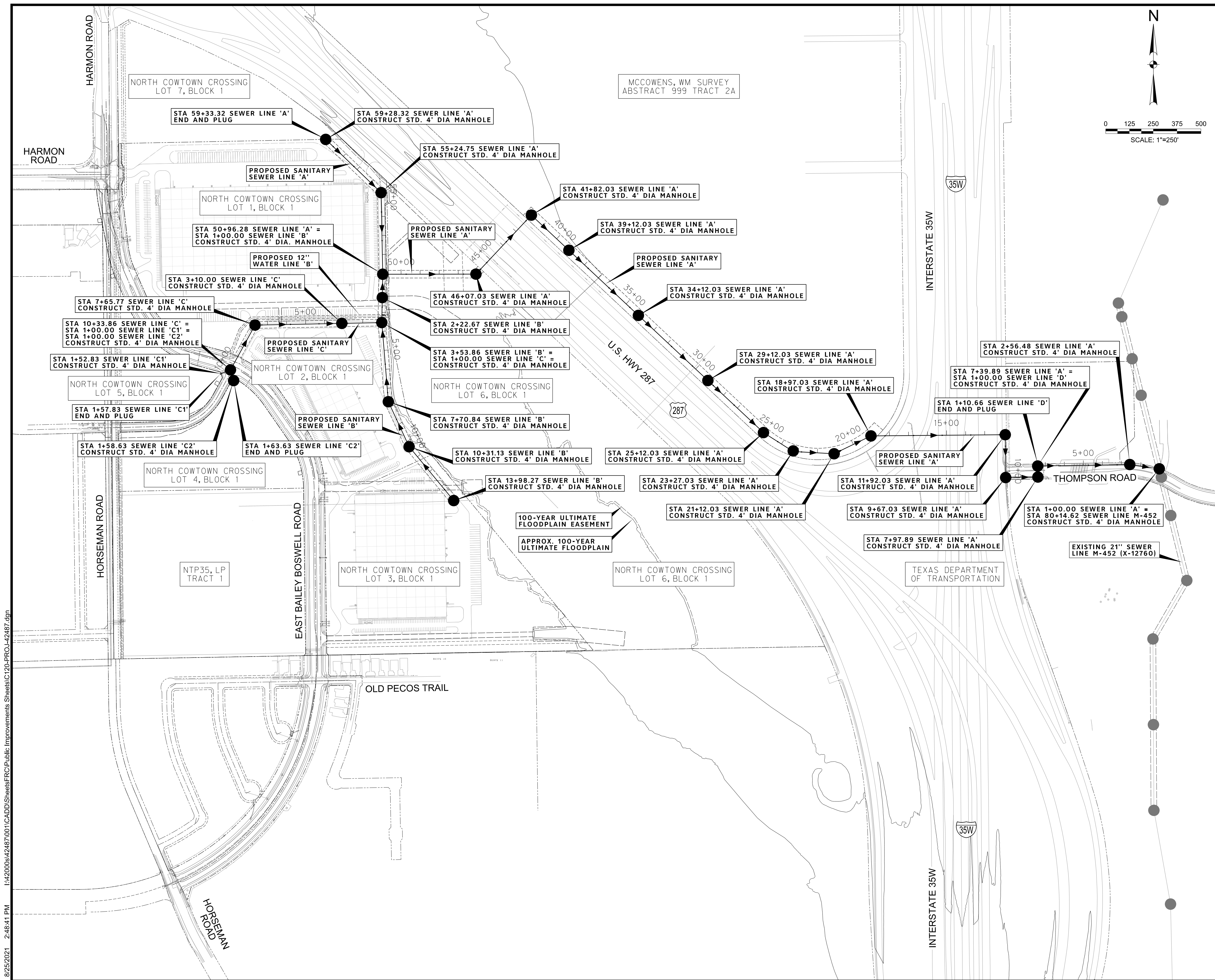
**CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT
SERVICES**

**TRANSPORTATION PROGRAMMING &
INFRASTRUCTURE PLAN REVIEW CENTER**

**EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
WATERLINE LATERALS**

PROFILES

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 14 OF 189
DRAWN: PTS			



REVISIONS		
NO.	DESCRIPTION	DATE
1		
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3		

TBPE FIRM #F-312
 3803 PARKWOOD BLVD., STE 800
 FRISCO, TEXAS 75034-8840
 (214) 217-6954

LEGEND

- PROPOSED SANITARY SEWER LINE AND MANHOLE
- EXISTING SANITARY SEWER LINE AND MANHOLE

CONSTRUCTION NOTES

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HORIZONTAL & VERTICAL CONTROL		
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DOE # _____ K-2840
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 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
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 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

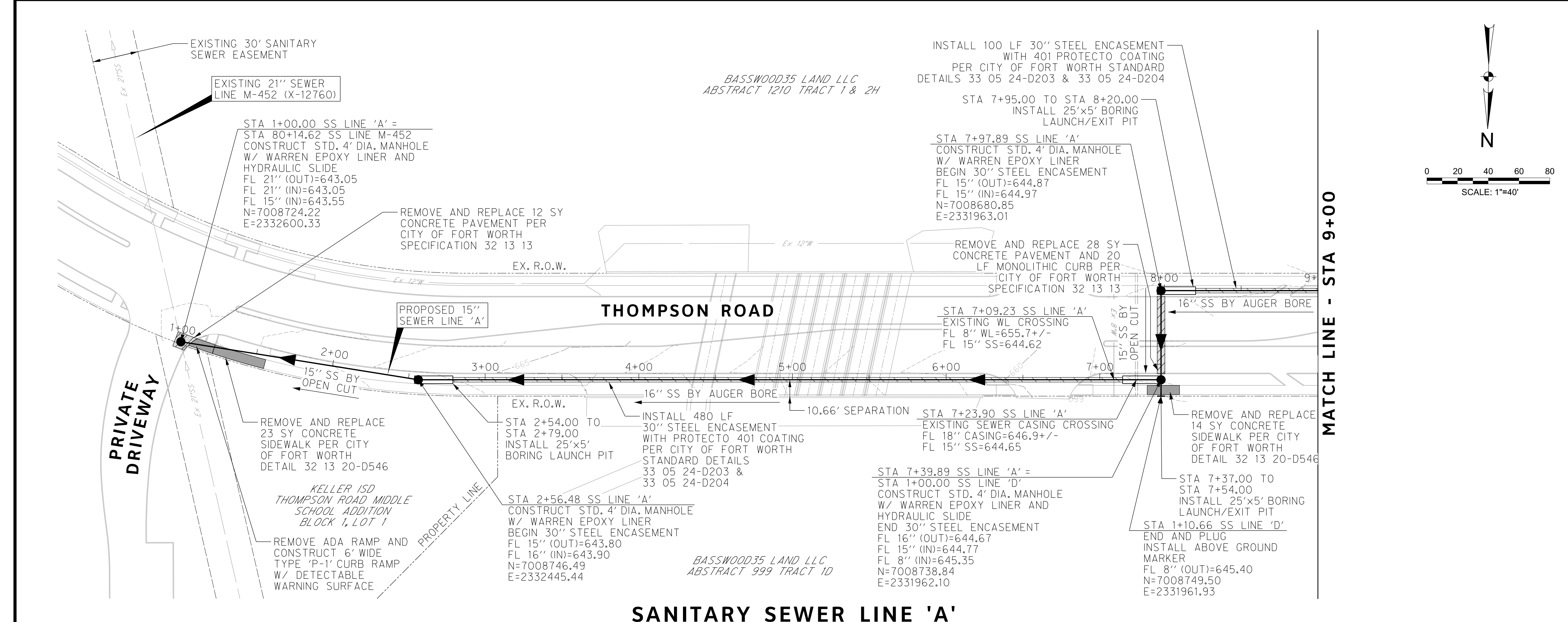
CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD
PROJECT LAYOUT

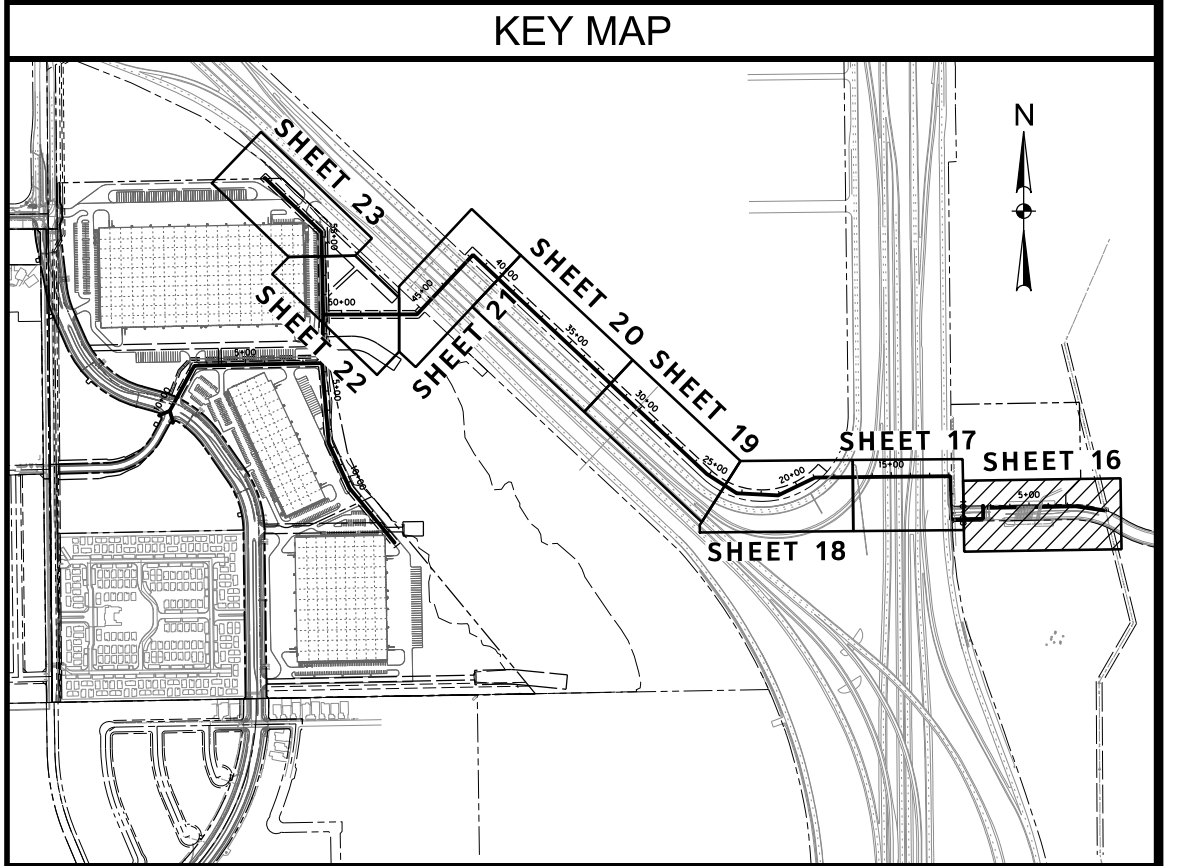
SANITARY SEWER			
DESIGNED: TMW	SCALE: 1"=250'	DATE: 06/08/2021	SHEET 15 OF 189
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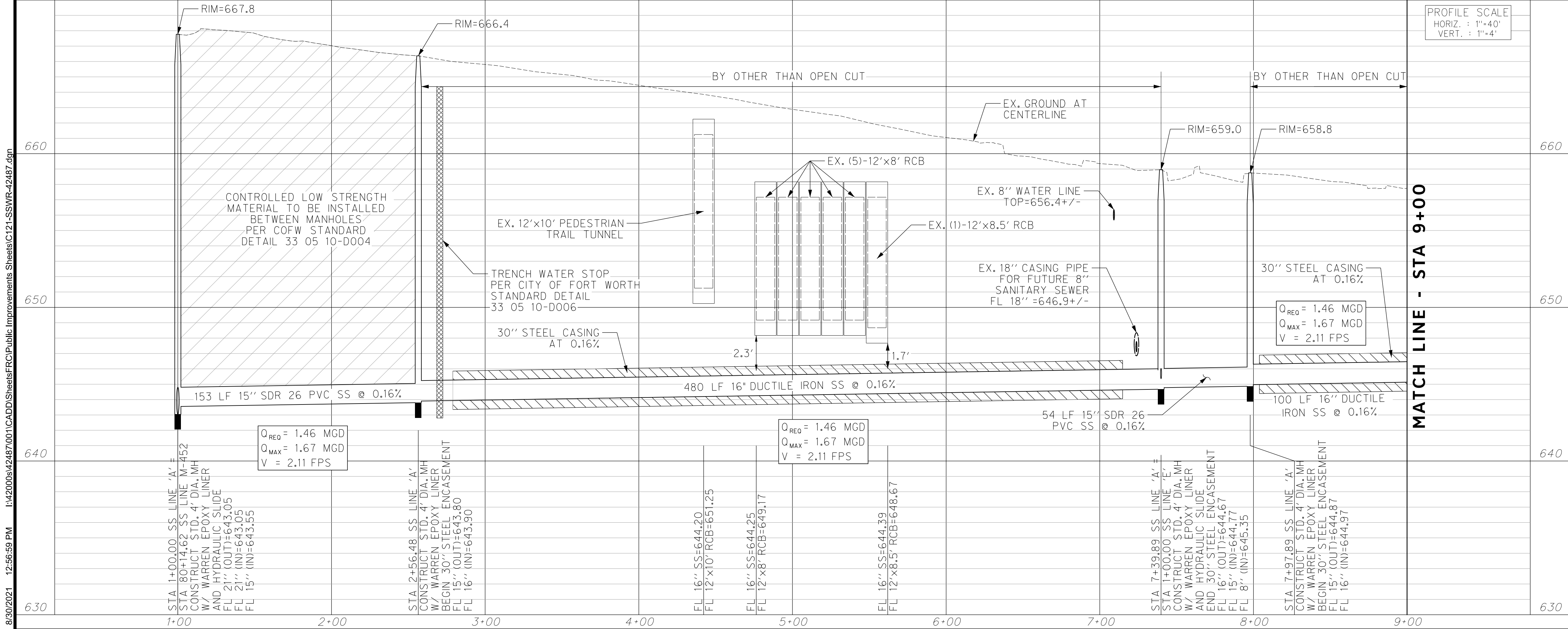
REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		

HALFF
 TBPE FIRM #F-312
 3803 PARKWOOD BLVD., STE 800
 FRIISCO, TEXAS 75034-8840
 (214) 217-6954



JOSEPH W. BUCHANAN
 136549
 LICENSED PROFESSIONAL ENGINEER
 STATE OF TEXAS
 03/05/21

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E: 2327333.06	E: 2327011.03	E: 2327060.00
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DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
SANITARY SEWER LINE 'A'
 BEGIN TO STA 9+00

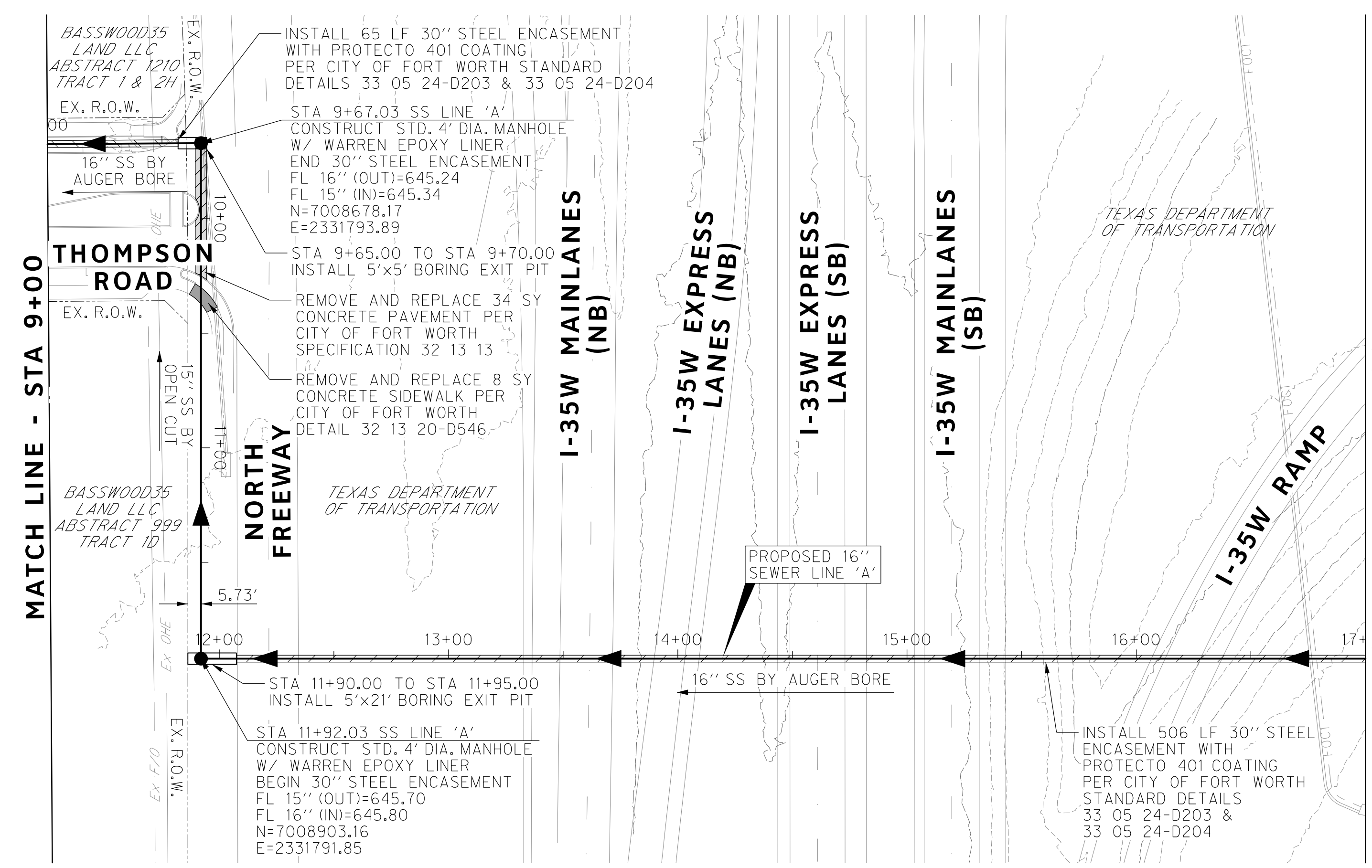
PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 16 OF 189
DRAWN: PTS			

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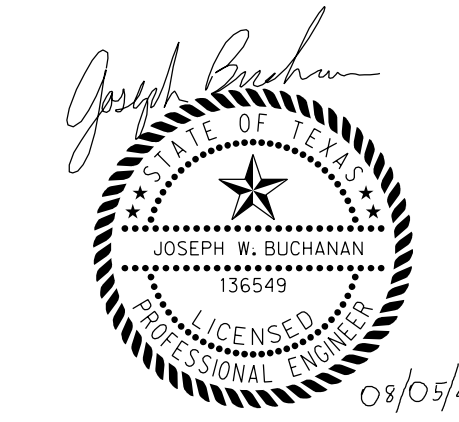
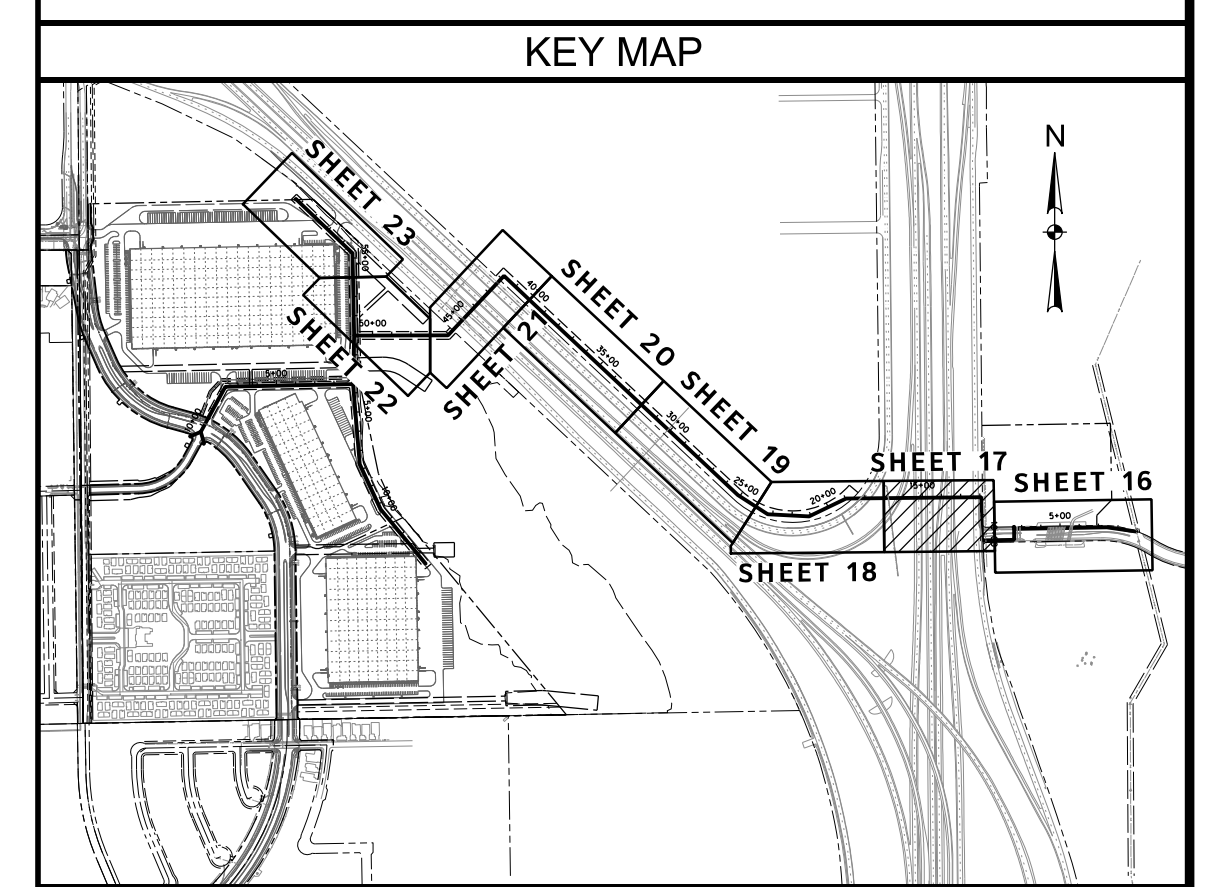
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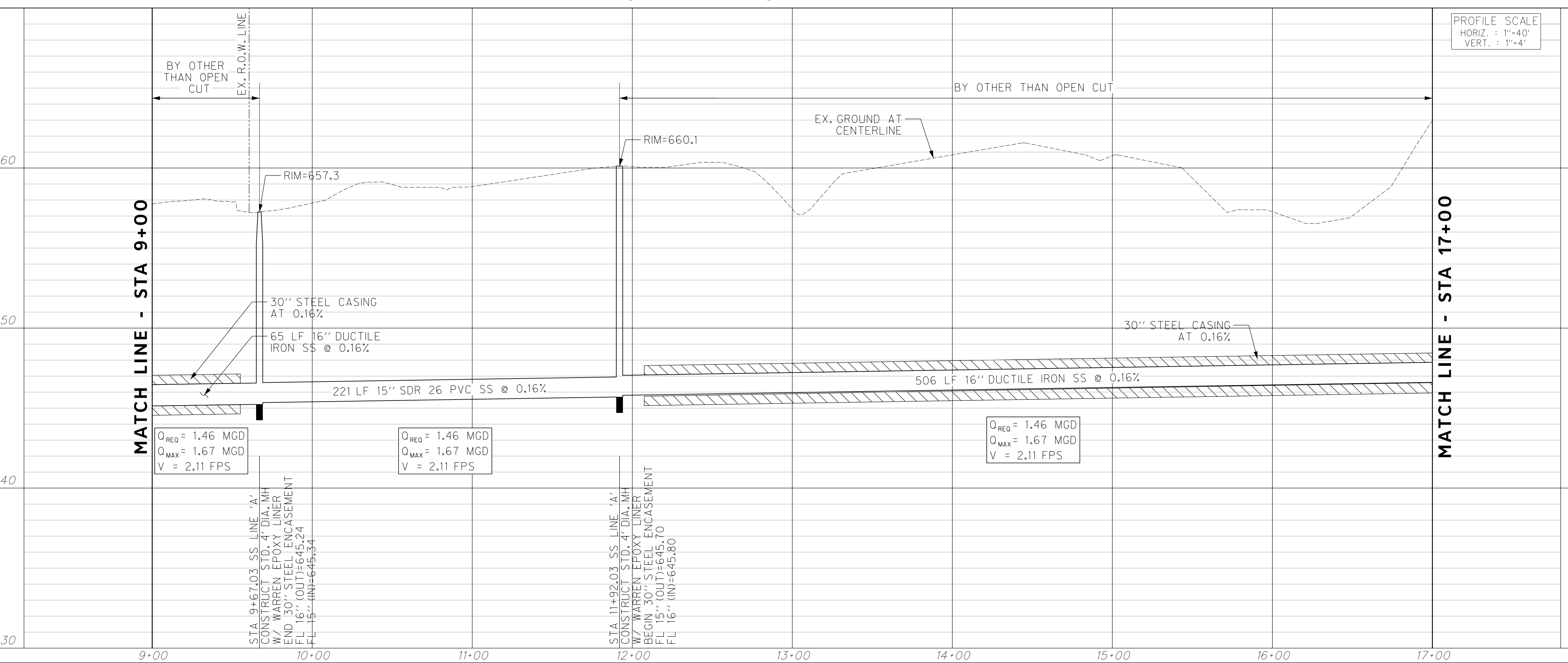
NOTE:
CONTRACTORS-YOU'RE TO CALL THE TxDOT INSPECTOR NOTED ON THE APPROVED PERMIT 48-HOURS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO CONTACT TxDOT DISTRICT TRAFFIC SIGNAL SHOP AT 817-370-3661 FOR LINE LOCATES IF BURIED PORTION OF THIS WORK IS NEAR TxDOT TRAFFIC SIGNALS.

REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



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SANITARY SEWER LINE 'A'



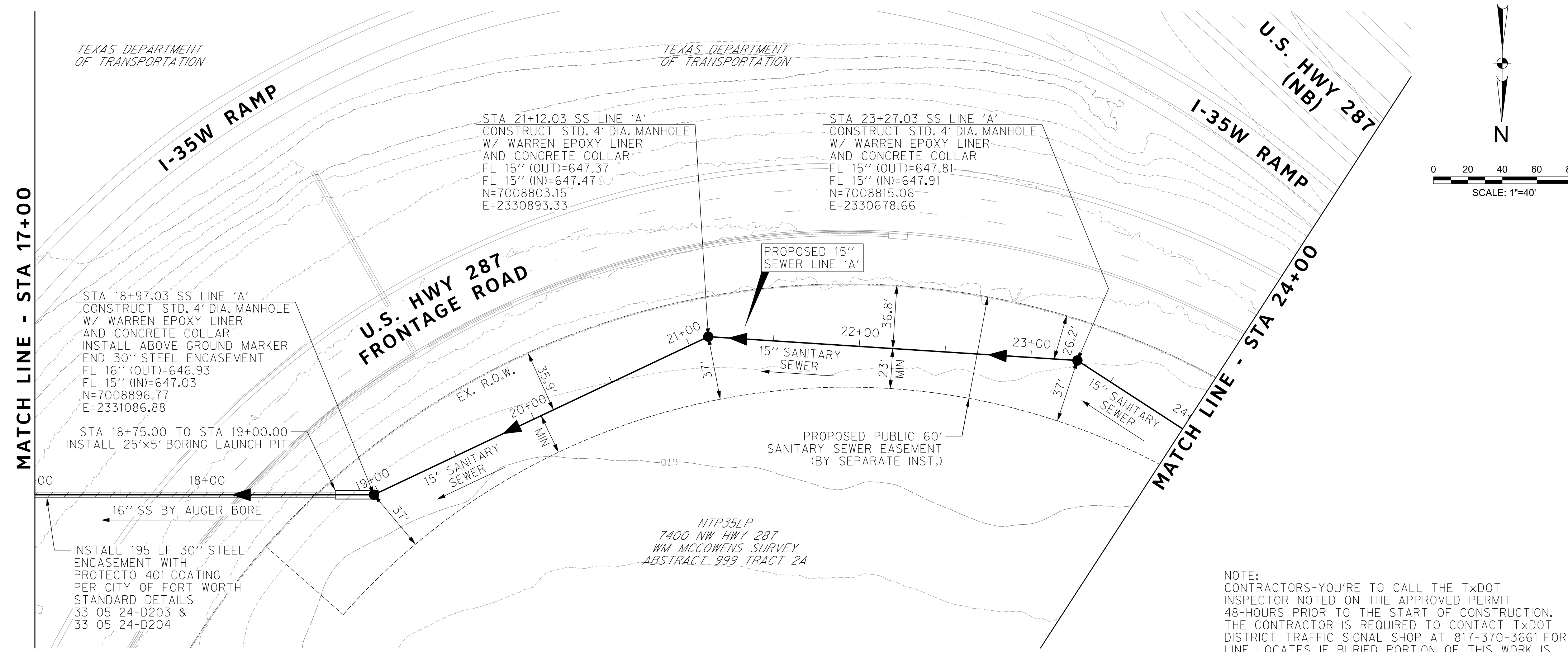
CONSTRUCTION NOTES

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 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

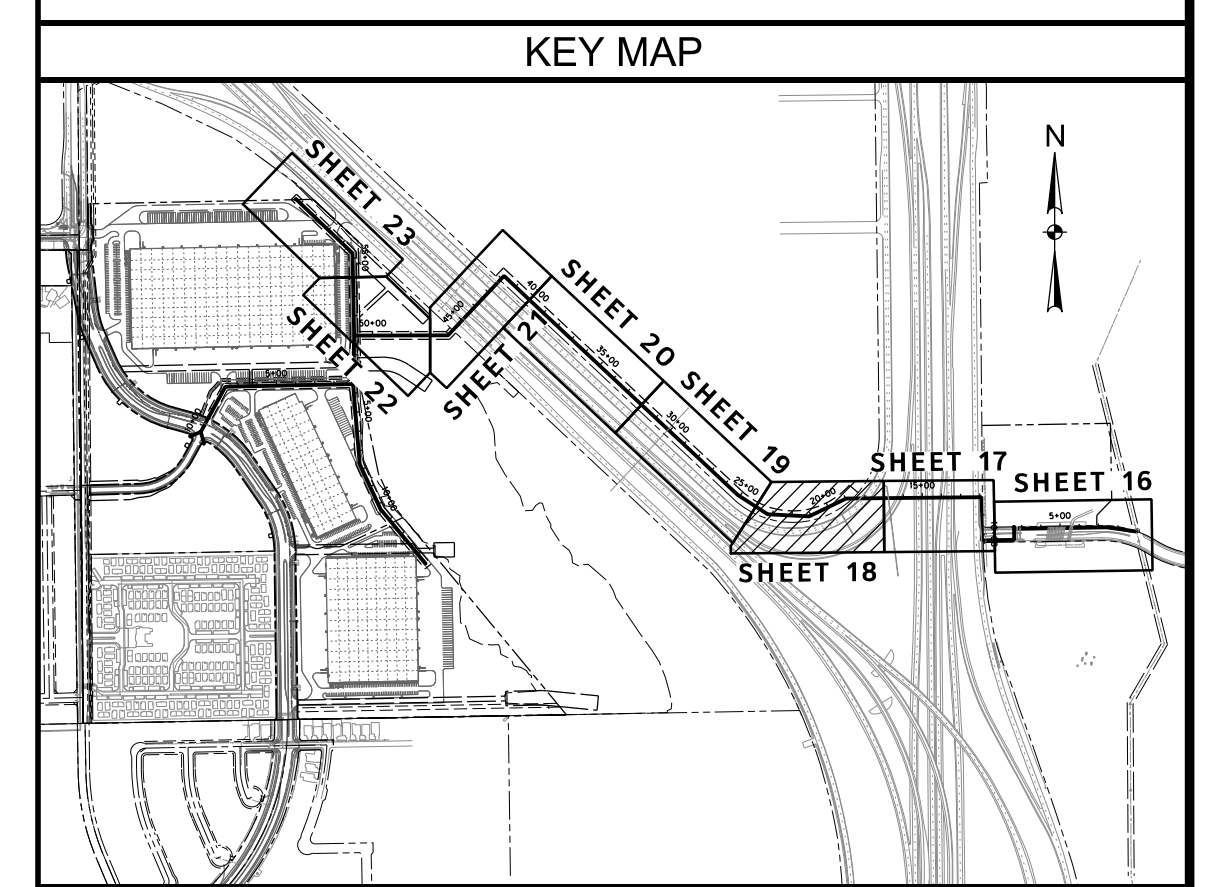
HORIZONTAL & VERTICAL CONTROL		
CONTROL POINT #105 SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	CONTROL POINT #109 SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	CONTROL POINT #314 SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97
DOE # CITY PROJECT # 103320 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX MAP NO. XXXX-XXX		K-2840 MAPSCO NO. 119E AND 119F

CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
SANITARY SEWER LINE 'A'
STA 9+00 TO STA 17+00

PLAN & PROFILE			
DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 17 OF 189
DRAWN: PTS			



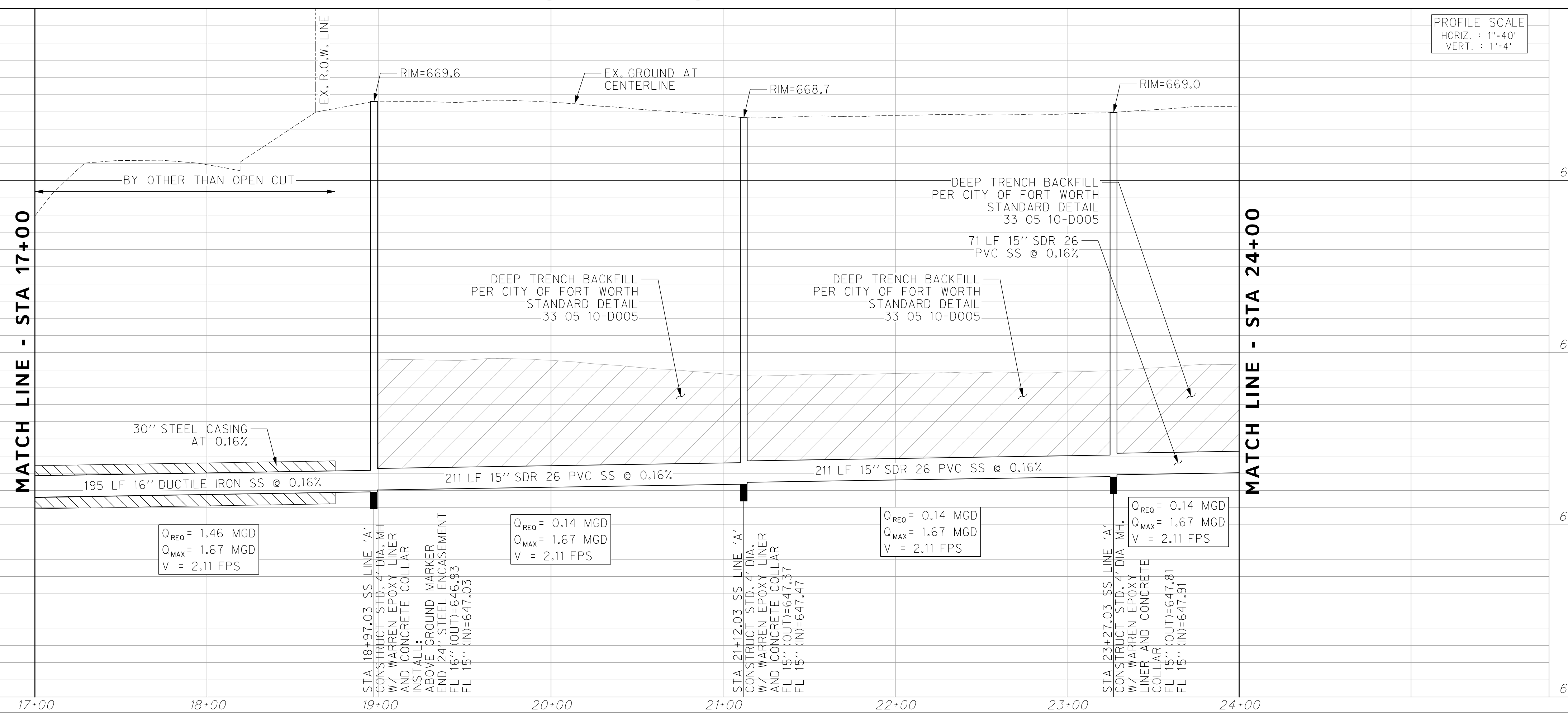
REVISIONS		
NO.	DESCRIPTION	DATE
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SANITARY SEWER LINE 'A'



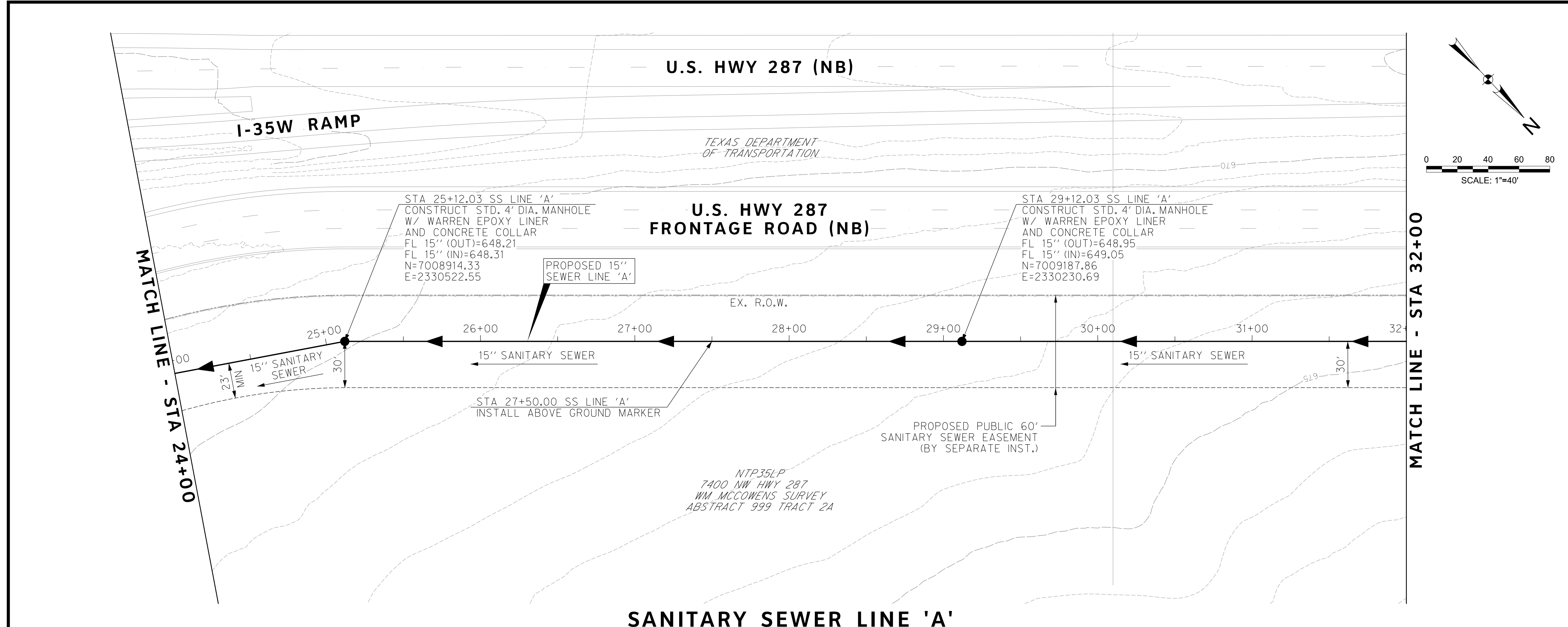
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DOE # CITY PROJECT # 103320 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX MAP NO. XXXX-XXX		K-2840 MAPSCO NO. 119E AND 119F

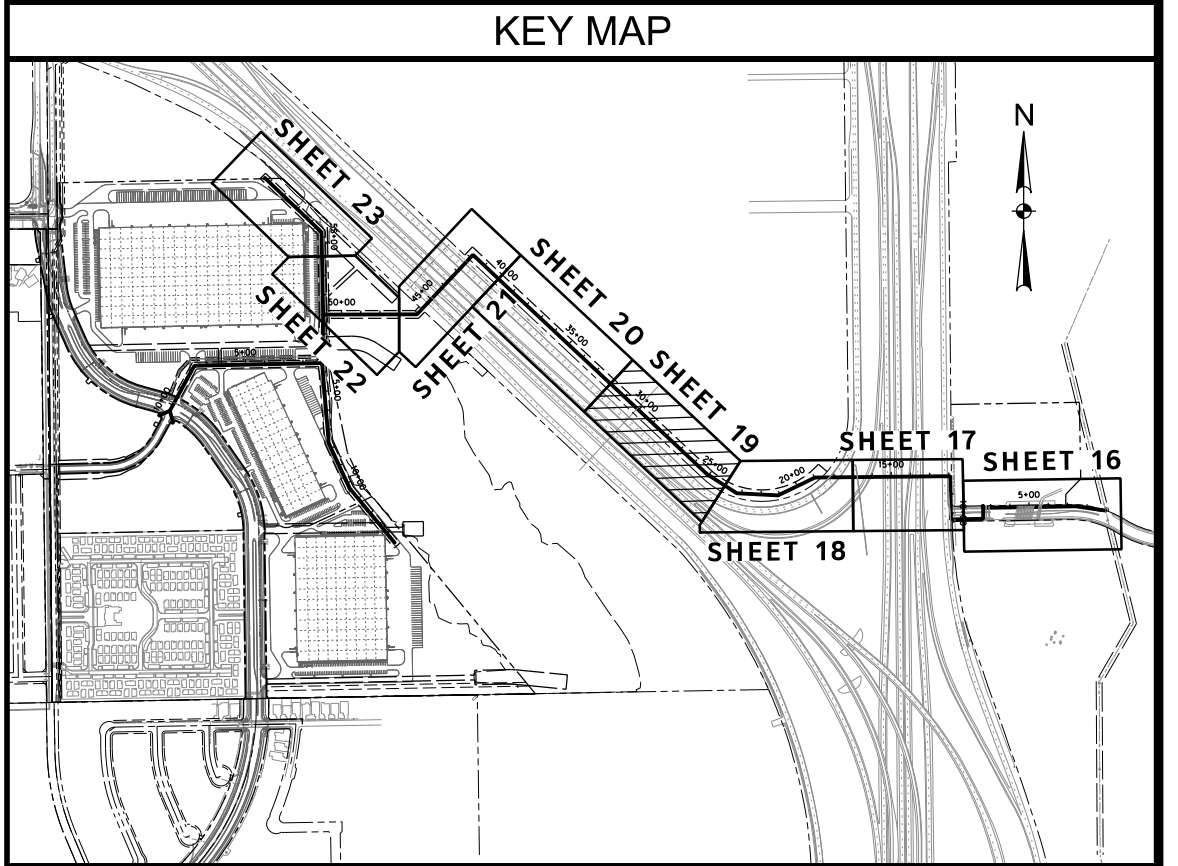
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
 EAST BAILEY BOSWELL ROAD
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SANITARY SEWER LINE 'A'
 STA 17+00 TO STA 24+00

PLAN & PROFILE			
DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 18 OF 189
DRAWN: PTS			



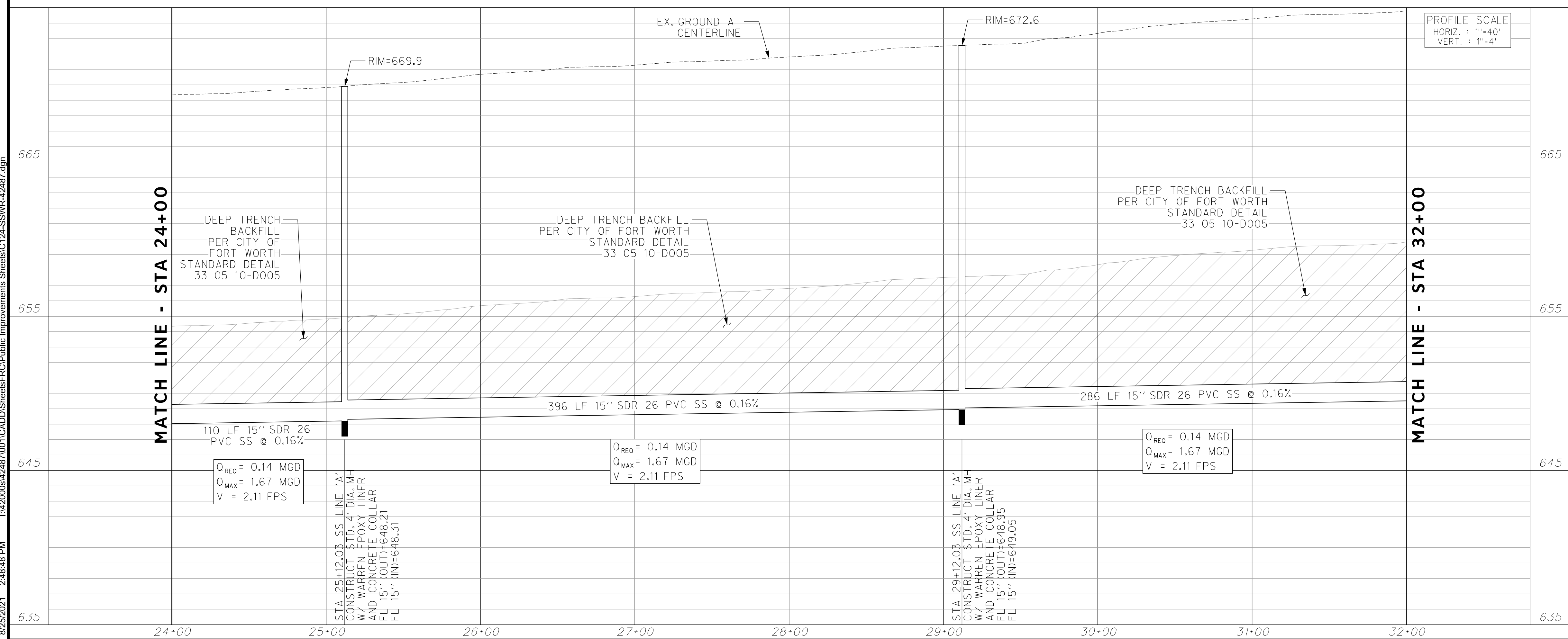
REVISIONS		
NO.	DESCRIPTION	DATE
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HALFF
 TBPE FIRM #F-312
 3803 PARKWOOD BLVD., STE 800
 FORT WORTH, TEXAS 76104-8840
 (214) 217-6954



Joseph W. Buchanan
 STATE OF TEXAS
 PROFESSIONAL ENGINEER
 JOSEPH W. BUCHANAN
 136549
 LICENSED PROFESSIONAL ENGINEER
 08/05/21

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DOE # K-2840
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 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
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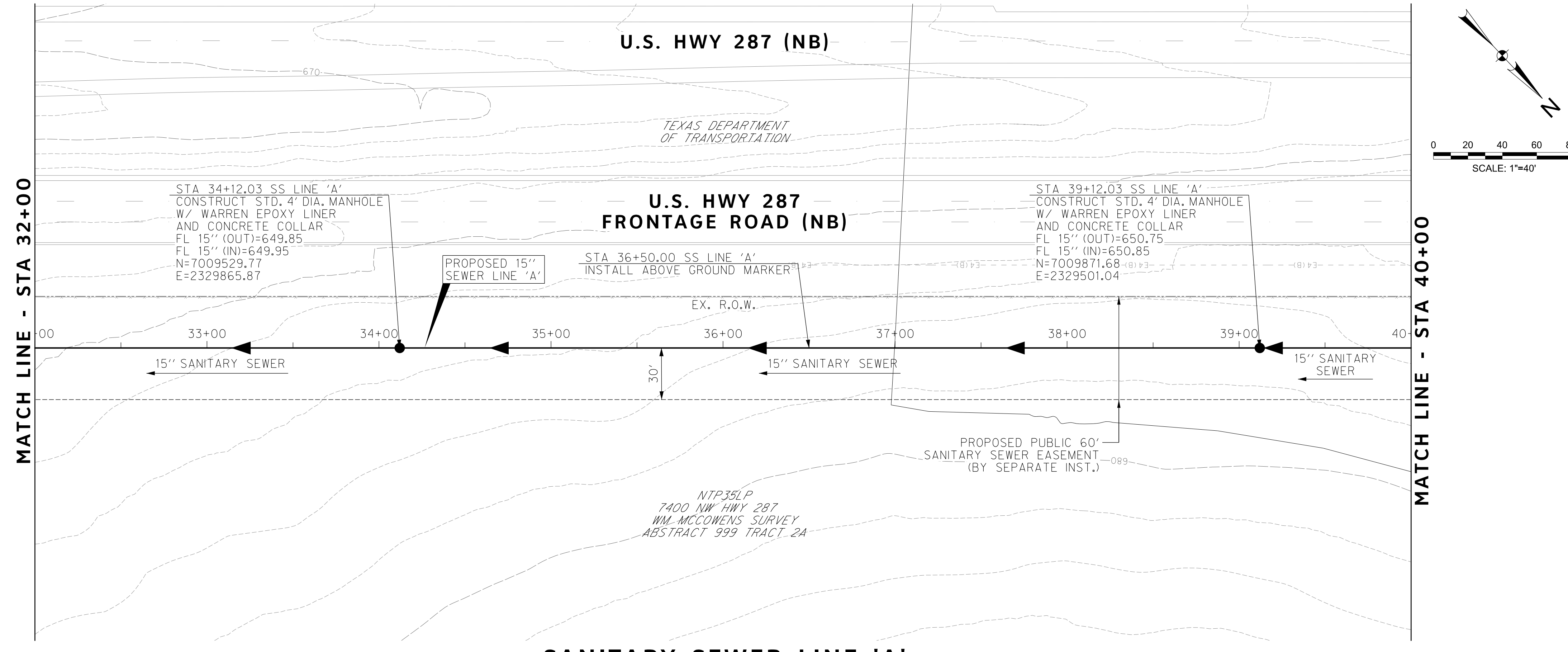
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
 EAST BAILEY BOSWELL ROAD
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SANITARY SEWER LINE 'A'
 STA 24+00 TO STA 32+00

PLAN & PROFILE

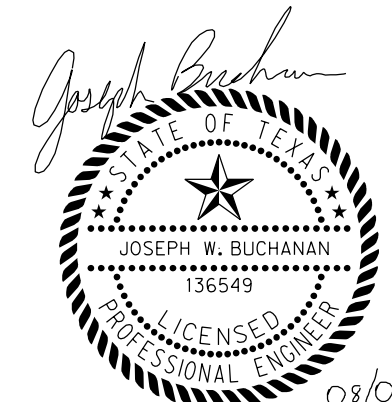
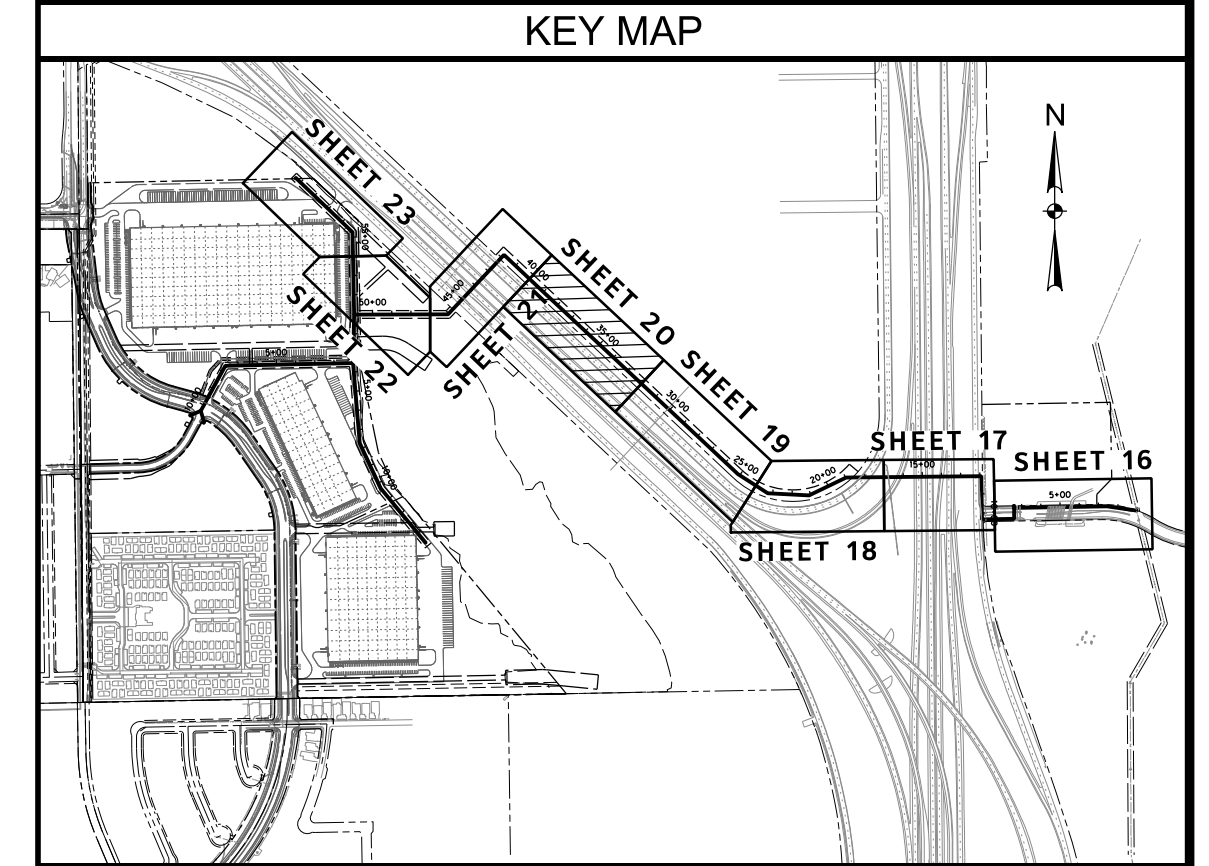
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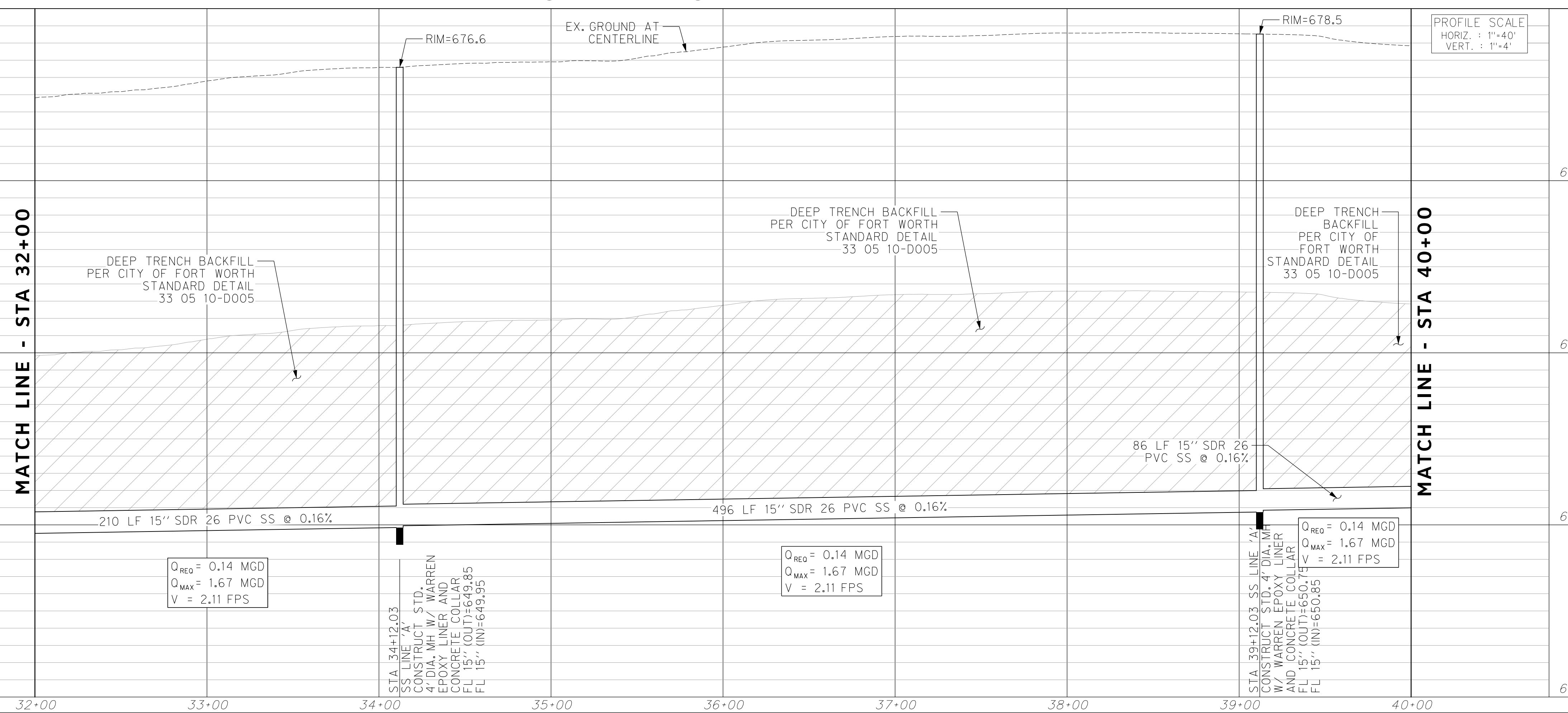


REVISIONS		
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SANITARY SEWER LINE 'A'



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ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES**

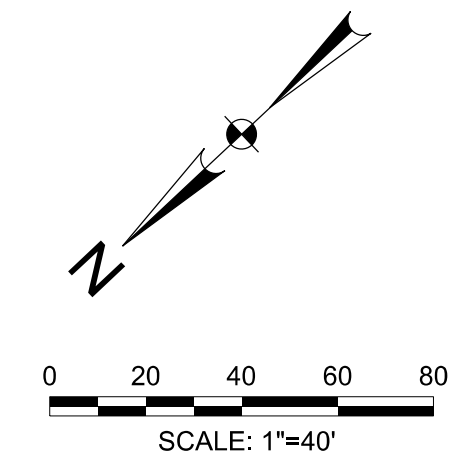
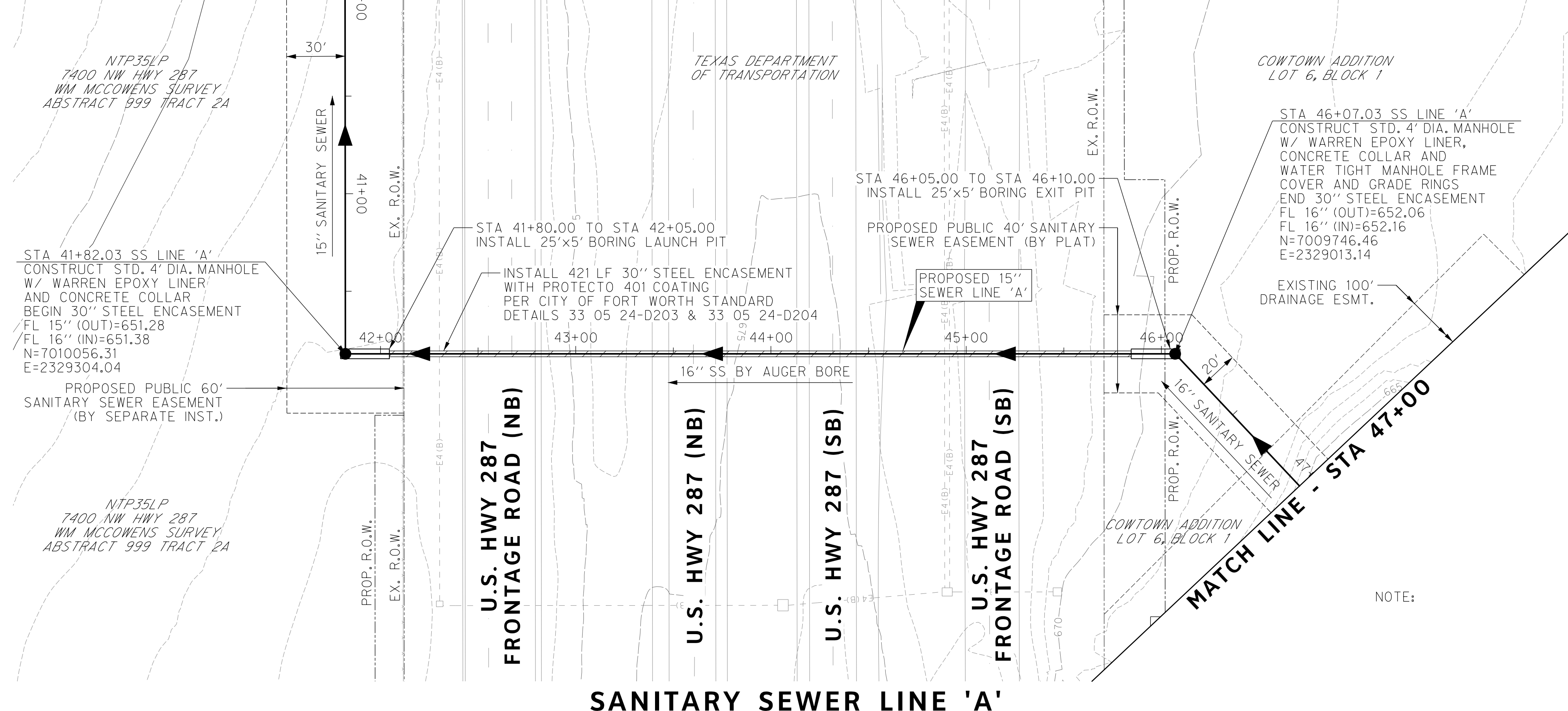
**TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 SANITARY SEWER LINE 'A'
 STA 32+00 TO STA 40+00**

PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 20 OF 189
DRAWN: PTS			

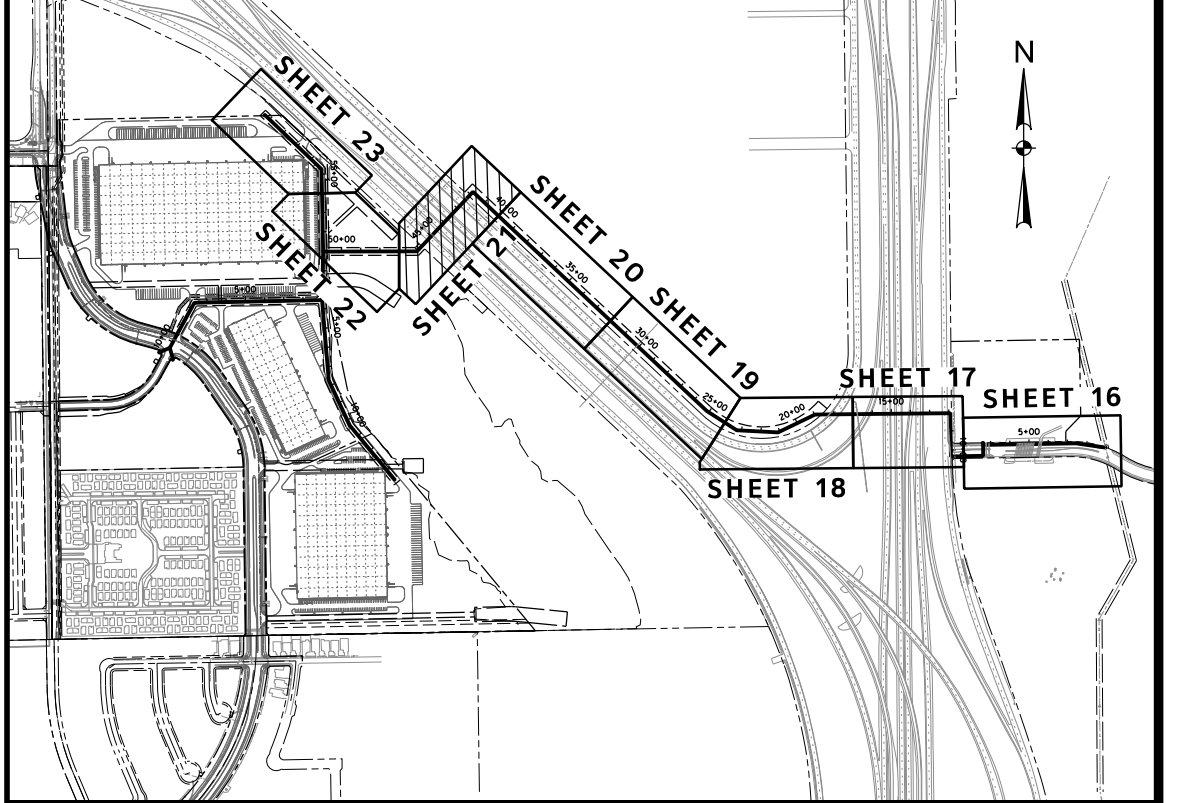
MATCH LINE - STA 40+00



REVISIONS		
NO.	DESCRIPTION	DATE
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KEY MAP



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SANITARY SEWER LINE 'A'

CONSTRUCTION NOTES

NOTE: ALL DIMENSIONS AND STATION/OFFSETS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED ON PLANS.
 NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING TREES, FENCES, RETAINING WALLS AND STRUCTURES UNLESS OTHERWISE NOTED.
 NOTE: CONTRACTOR SHALL RELOCATE EXISTING FENCES AS NOTED TO ONE FEET OF PROPOSED RIGHT OF WAY.
 THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATING AT EACH LOCATION:
 AT&T 1-800-878-8711
 FORT WORTH WATER DEPT.-FIELD OPERATIONS WATER (817) 925-2360
 FORT WORTH WATER DEPT.-FIELD OPERATIONS SANITARY SEWER (817) 223-7438
 FORT WORTH WATER DEPT.-FIELD OPERATIONS LOCATE (817) 392-6296
 FORT WORTH T&PW (817) 871-8100
 ATMOS ENERGY (817) 215-4366
 ONCOR GAS & ELECTRIC (817) 215-6214
 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

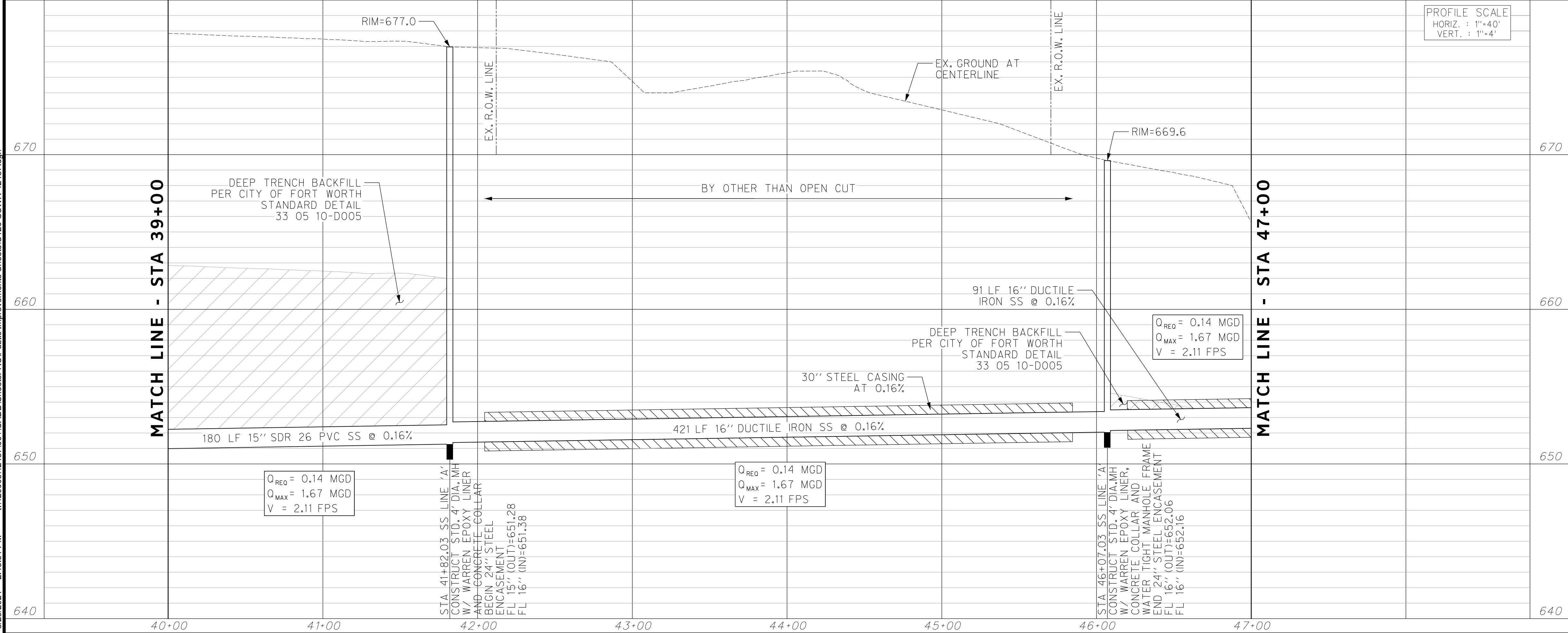
**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES**
 TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 SANITARY SEWER LINE 'A'
 STA 40+00 TO STA 47+00**

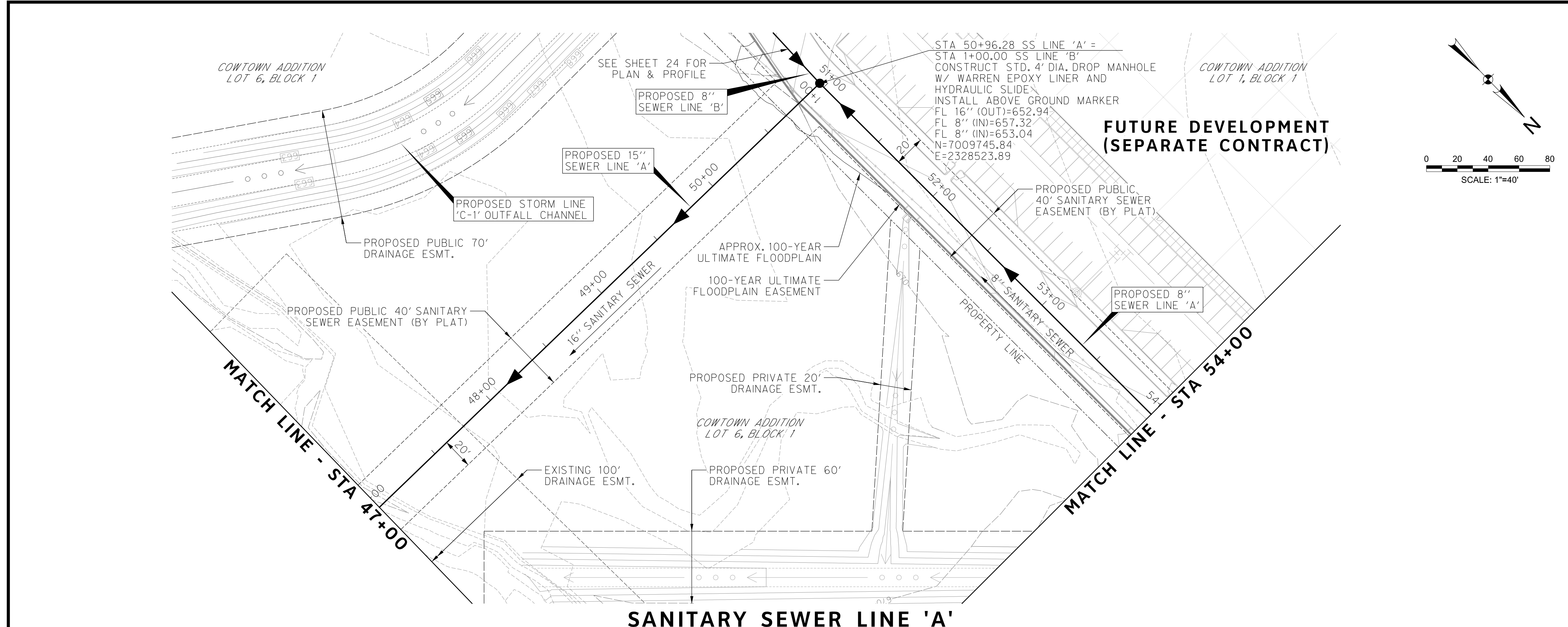
PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 21 OF 189
DRAWN: PTS			

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

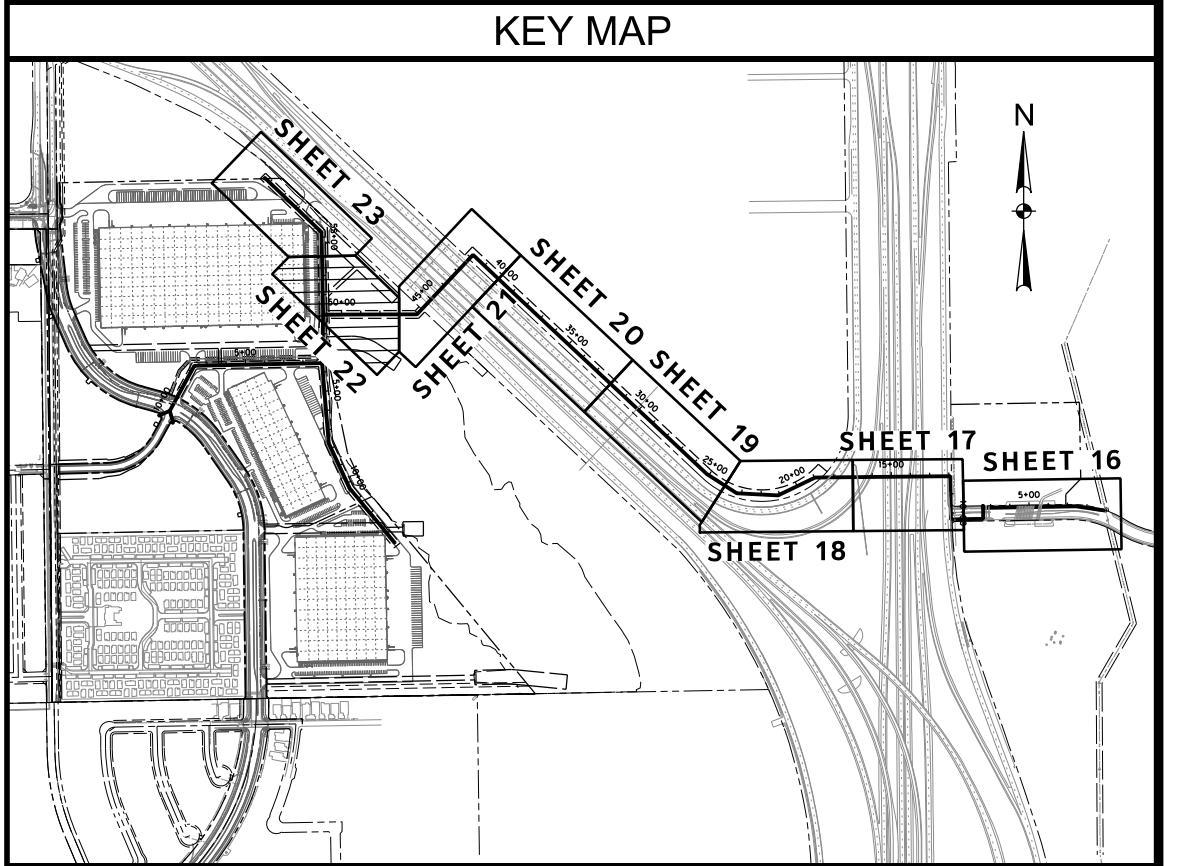


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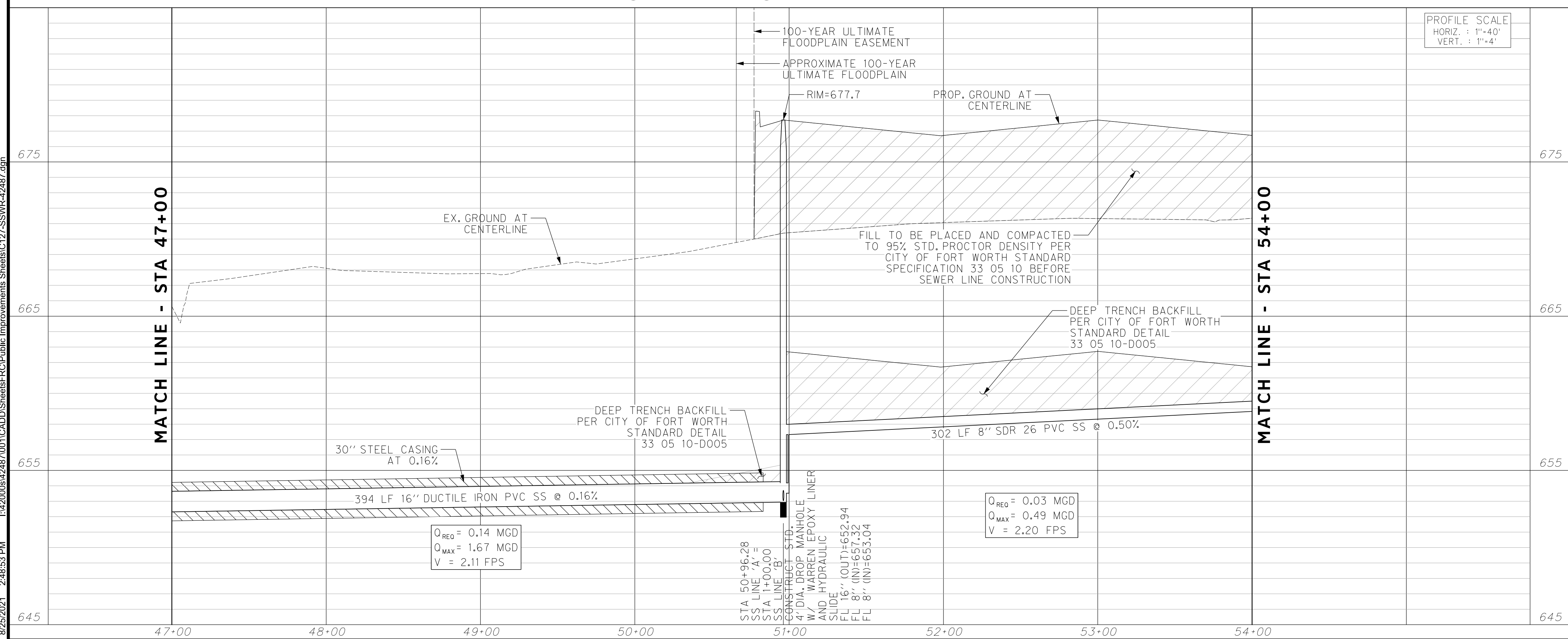
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HALFF
 TBPE FIRM #312
 3803 PARKWOOD BLVD., STE 800
 FRISCO, TEXAS 75034-8840
 (214) 217-6954



Professional Engineer Seal for Joseph W. Buchanan, P.E. License No. 136549, State of Texas. Date: 08/08/2021.

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 FORT WORTH WATER DEPT.-FIELD OPERATIONS SANITARY SEWER (817) 223-7438
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 FORT WORTH T&PW (817) 871-8100
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 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

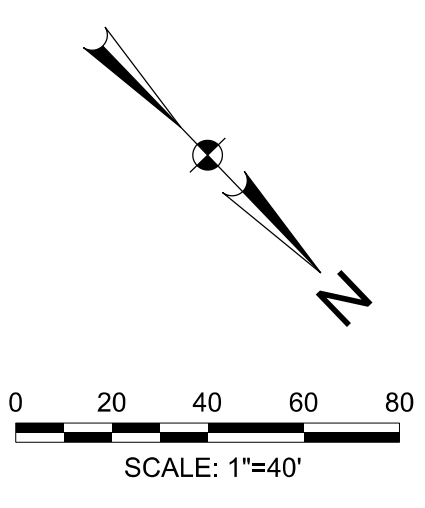
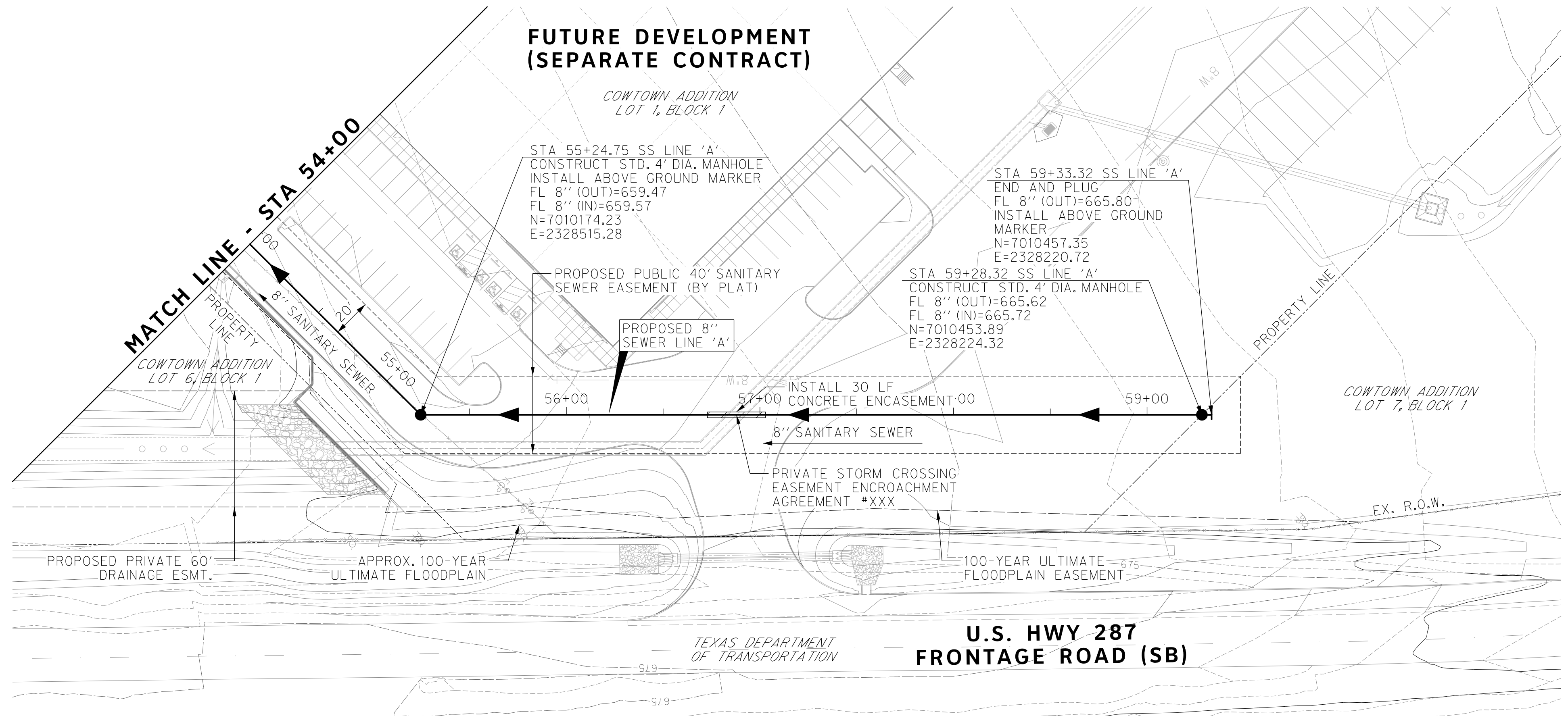
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
SANITARY SEWER LINE 'A'
 STA 47+00 TO STA 54+00

PLAN & PROFILE

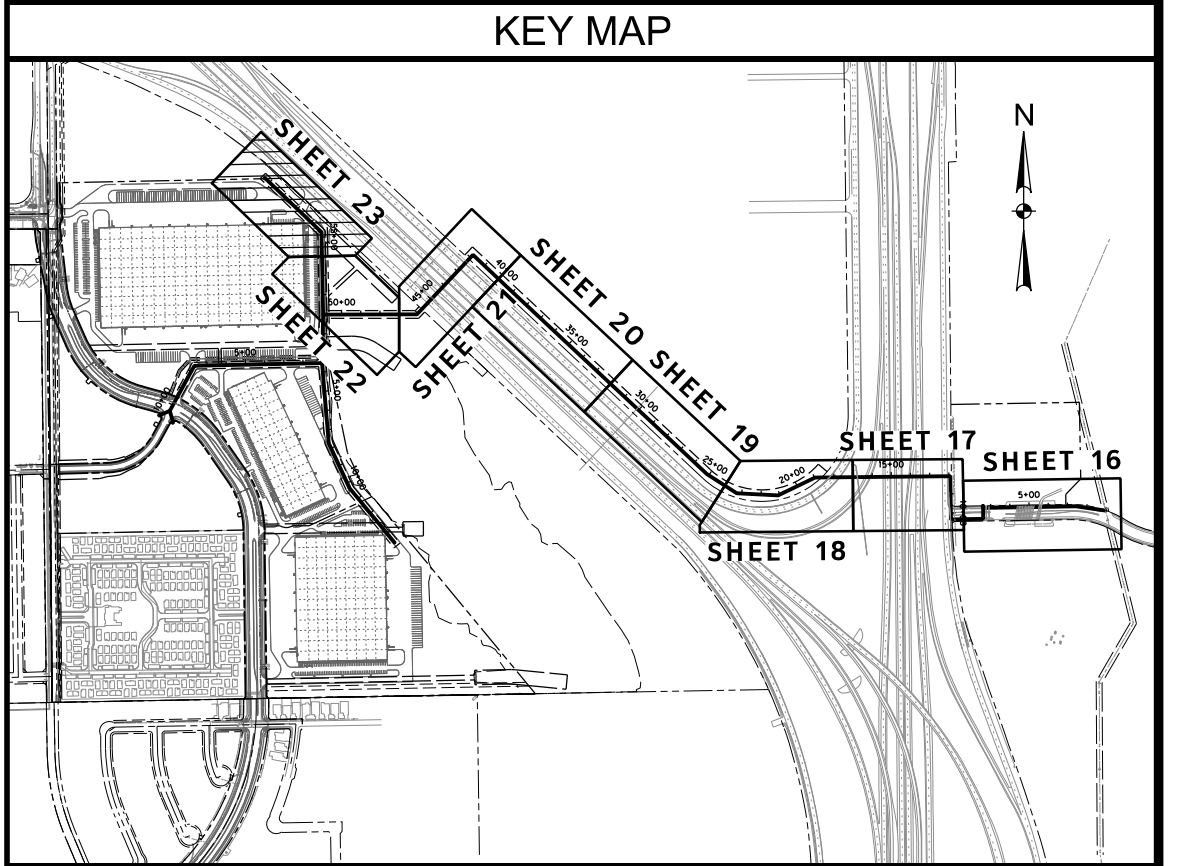
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**FUTURE DEVELOPMENT
(SEPARATE CONTRACT)**

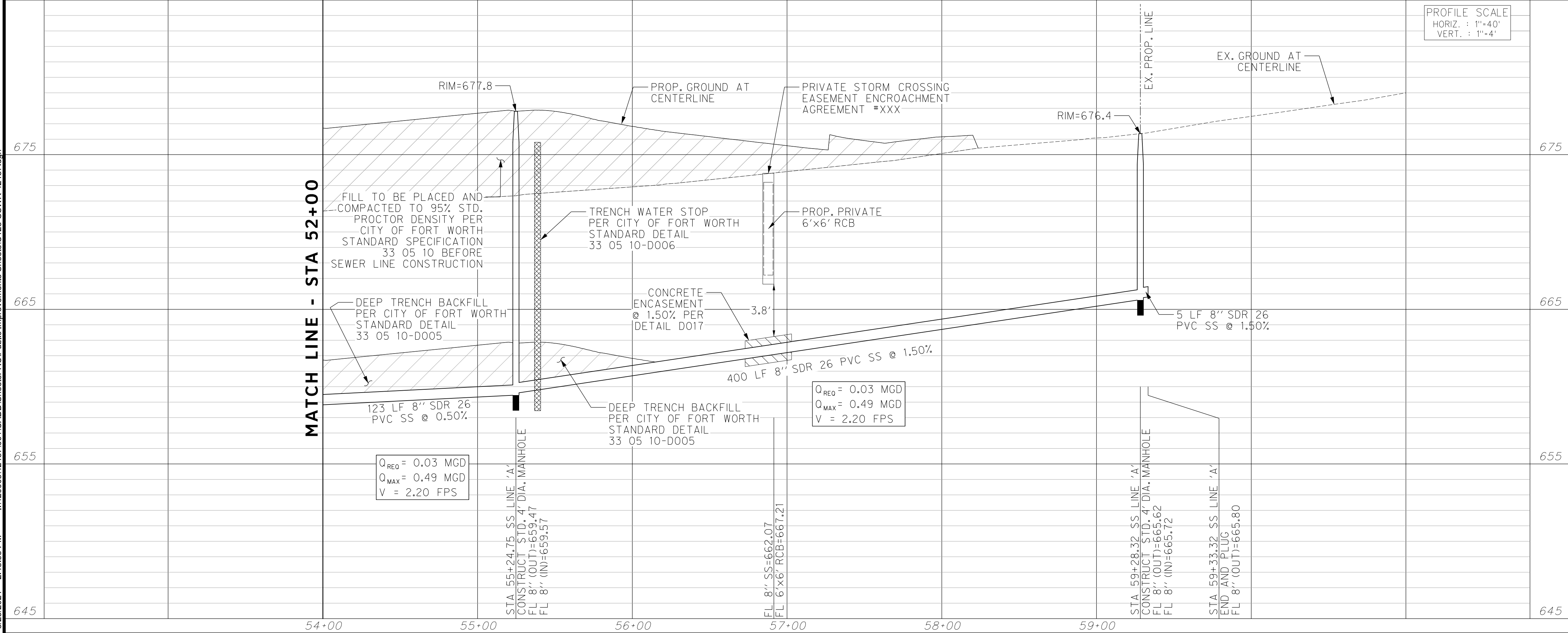


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SANITARY SEWER LINE 'A'



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

CONSTRUCTION NOTES

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THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATING AT EACH LOCATION:

AT&T 1-800-878-8711
FORT WORTH WATER DEPT.-FIELD OPERATIONS WATER (817) 925-2360
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FORT WORTH WATER DEPT.-FIELD OPERATIONS LOCATE (817) 392-6296
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ATMOS ENERGY (817) 215-4366
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TXU ENERGY 1-800-233-2133
SBC TELEPHONE (817) 338-6819
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ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
MAP NO. XXXX-XXX

**CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT
SERVICES**

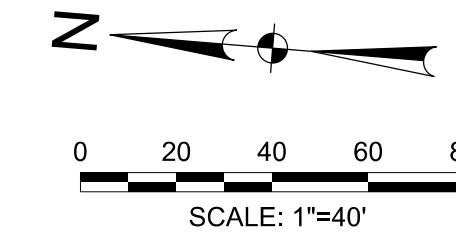
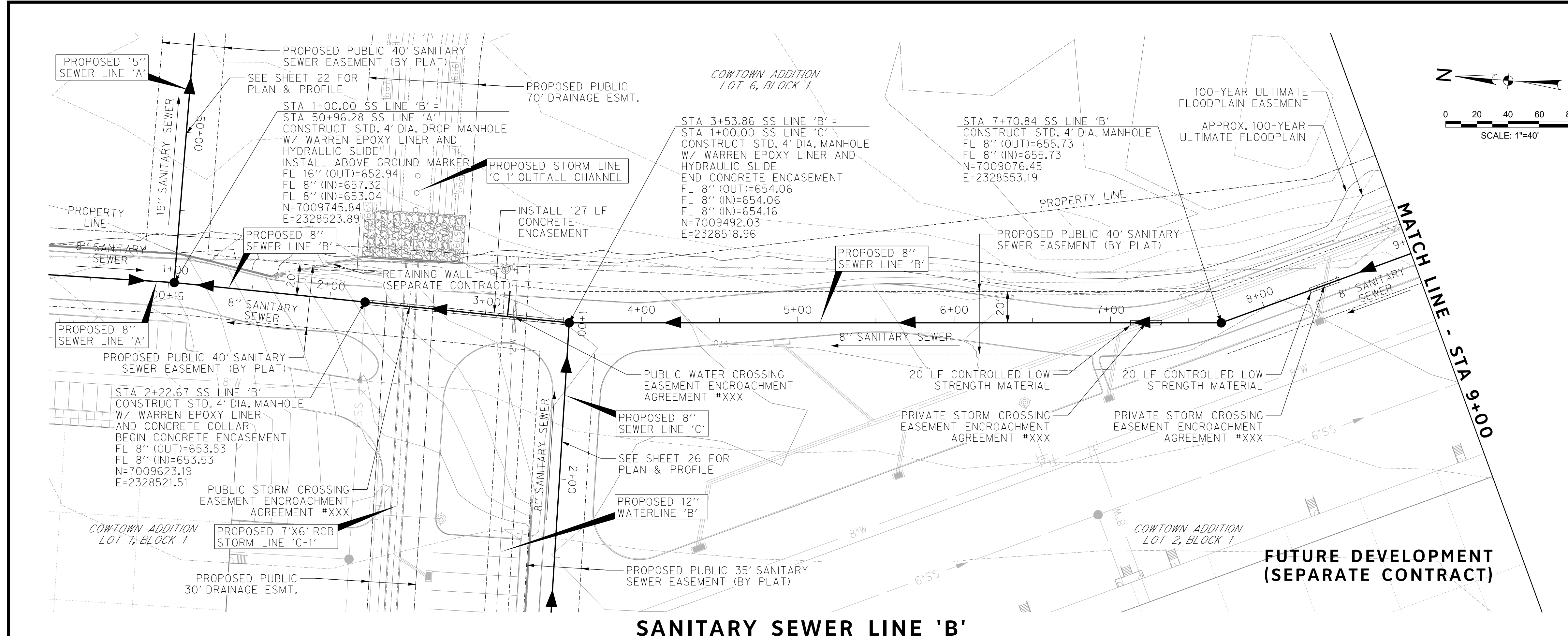
**TRANSPORTATION PROGRAMMING &
INFRASTRUCTURE PLAN REVIEW CENTER**

**EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
SANITARY SEWER LINE 'A'
STA 54+00 TO END**

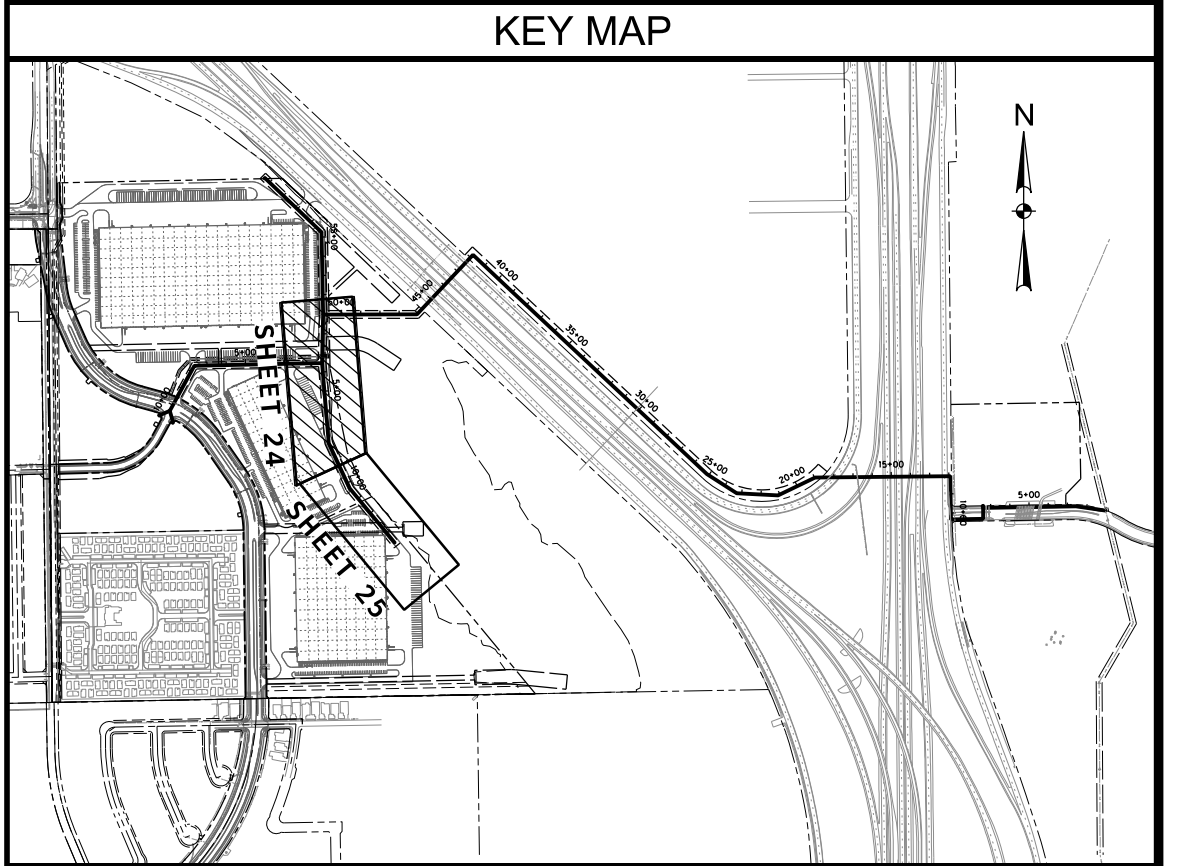
PLAN & PROFILE

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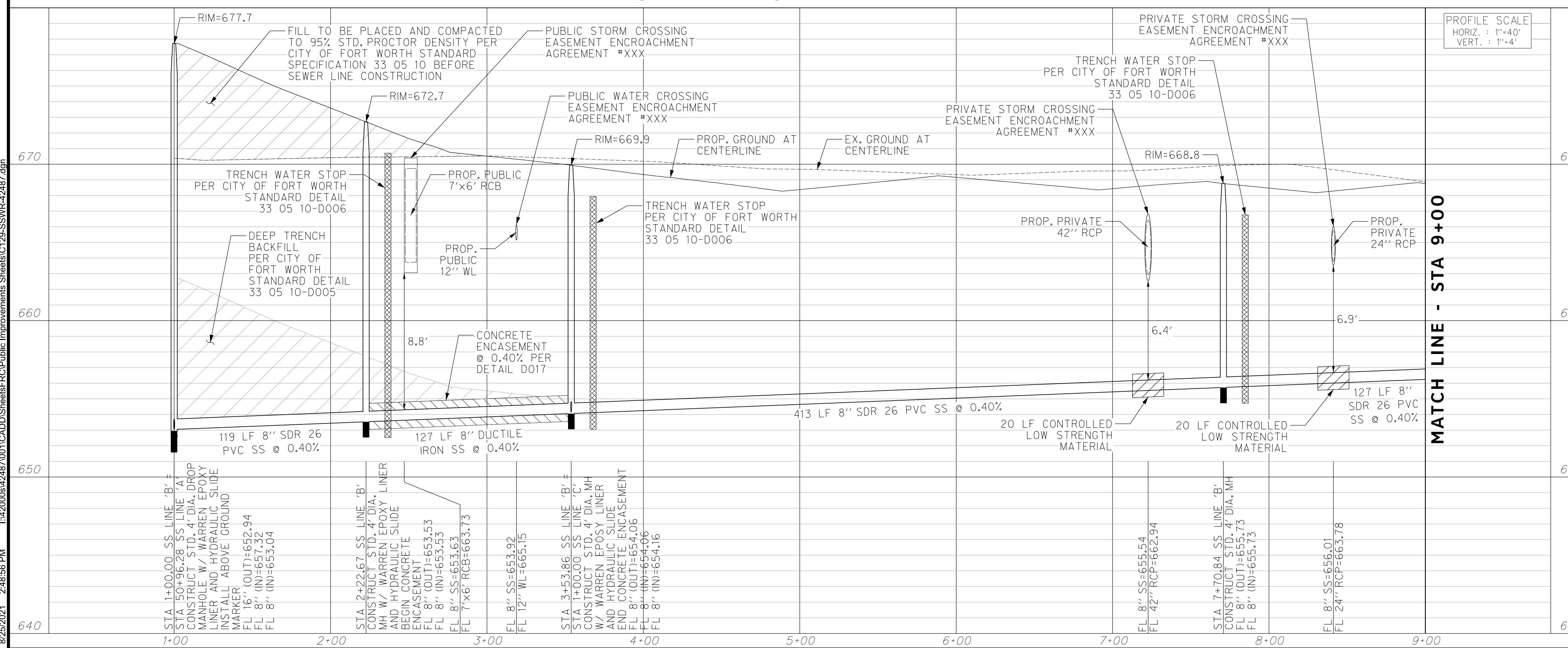
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SANITARY SEWER LINE 'B'

FUTURE DEVELOPMENT (SEPARATE CONTRACT)



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

CONSTRUCTION NOTES

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 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

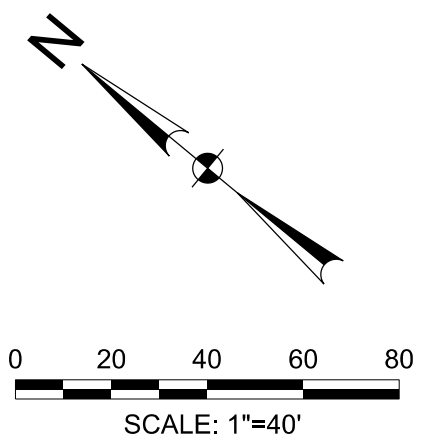
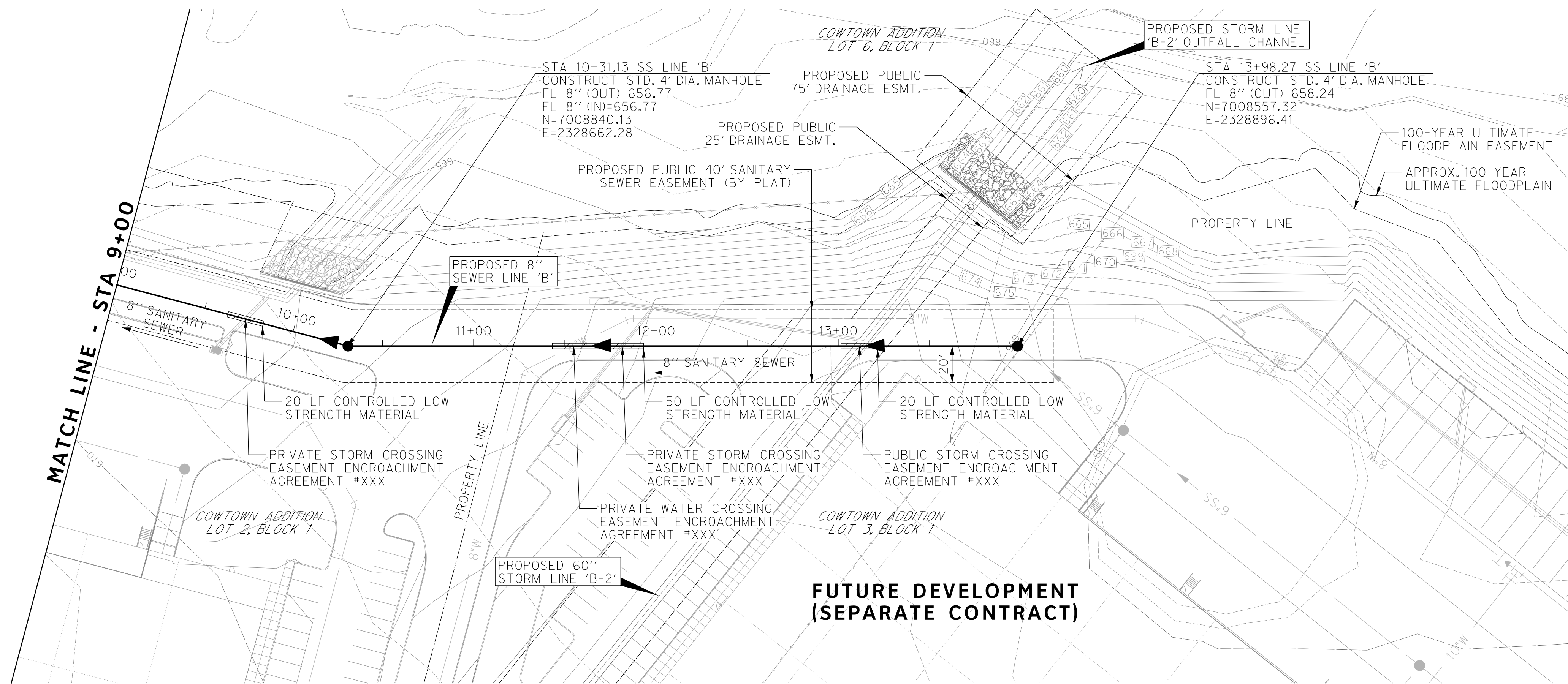
CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD
SANITARY SEWER LINE 'B'
BEGIN TO STA 9+00

PLAN & PROFILE

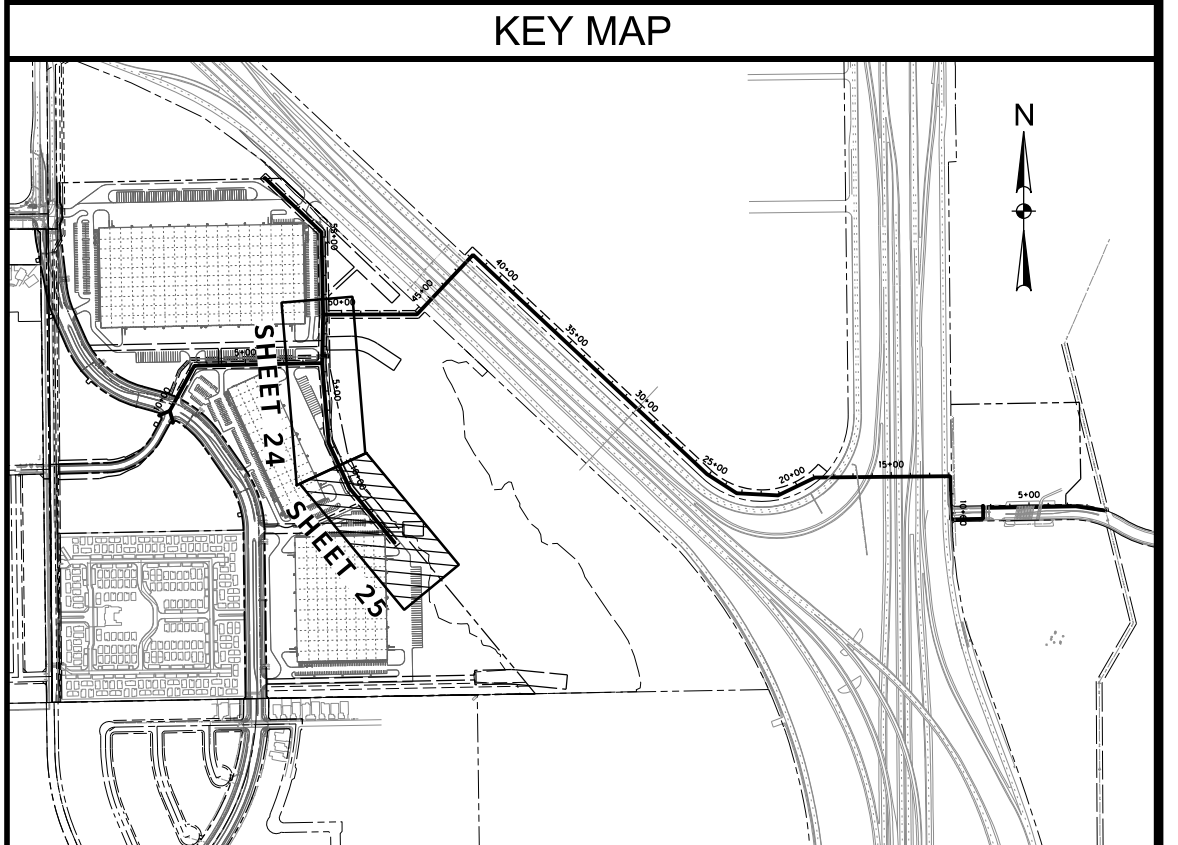
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SANITARY SEWER LINE 'B'

FUTURE DEVELOPMENT (SEPARATE CONTRACT)

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

CONSTRUCTION NOTES

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ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

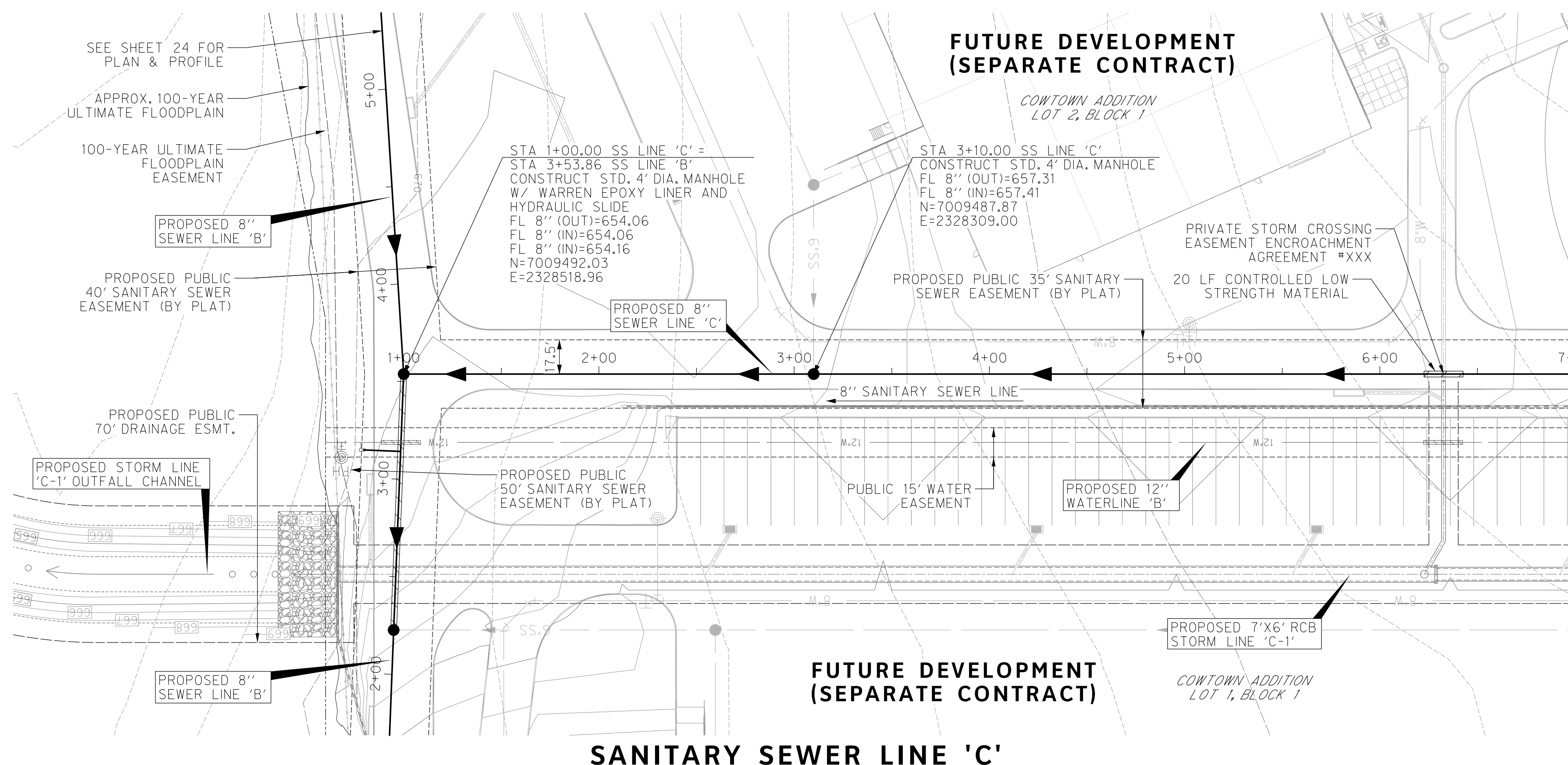
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
SANITARY SEWER LINE 'B'
STA 9+00 TO END

PLAN & PROFILE

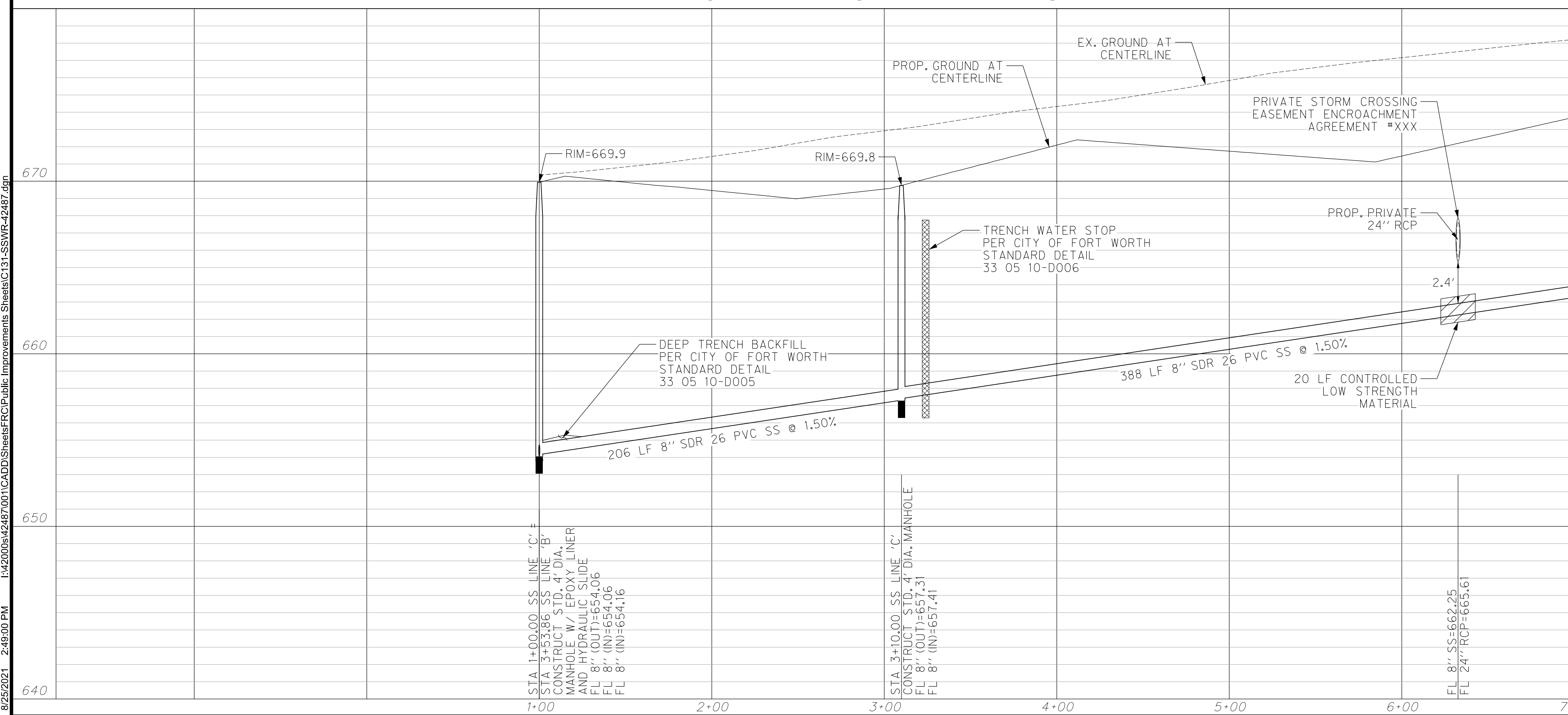
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MATCH LINE - STA 7+00

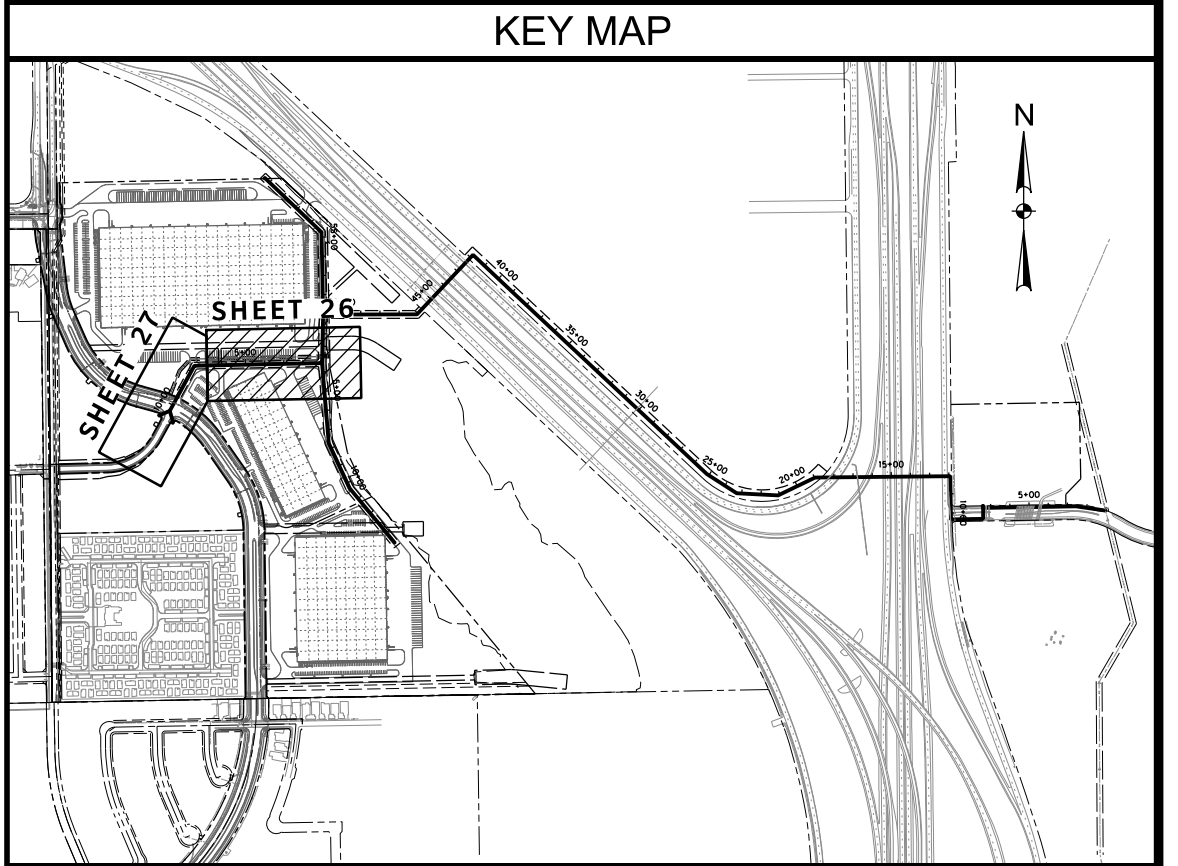
MATCH LINE - STA 7+00



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

REVISIONS		
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HALFF
 TBPE FIRM #F-312
 3803 PARKWOOD BLVD., STE 800
 FRISCO, TEXAS 75034-8840
 (214) 217-6954



Joseph W. Buchanan
 STATE OF TEXAS
 JOSEPH W. BUCHANAN
 136549
 LICENSED PROFESSIONAL ENGINEER
 08/05/21

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CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
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E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

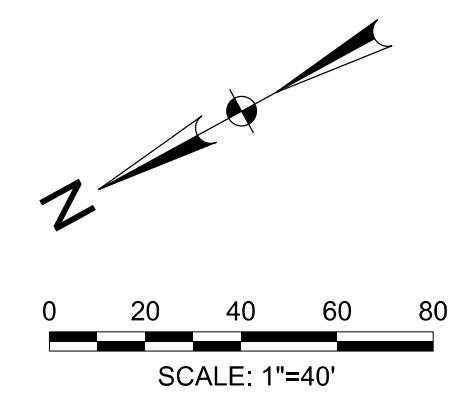
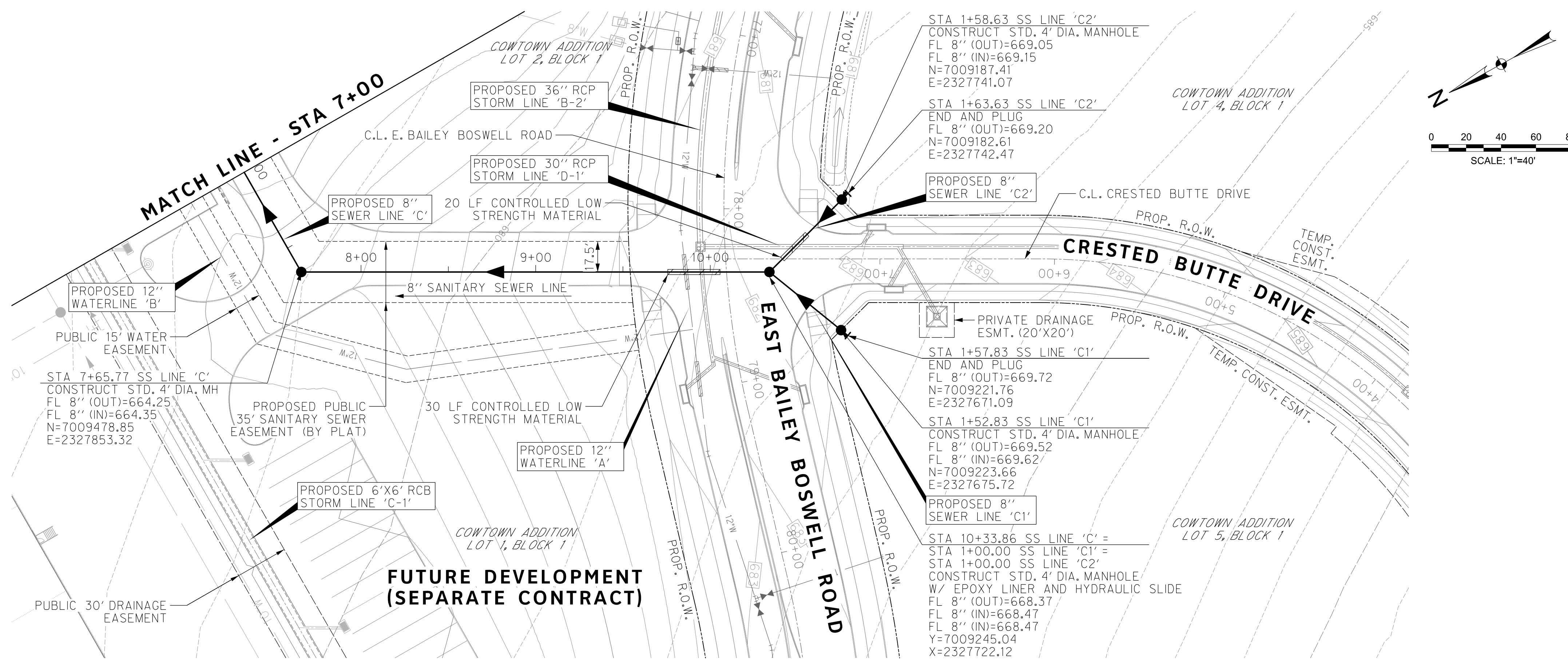
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 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
SANITARY SEWER LINE 'C'
BEGIN TO STA 7+00

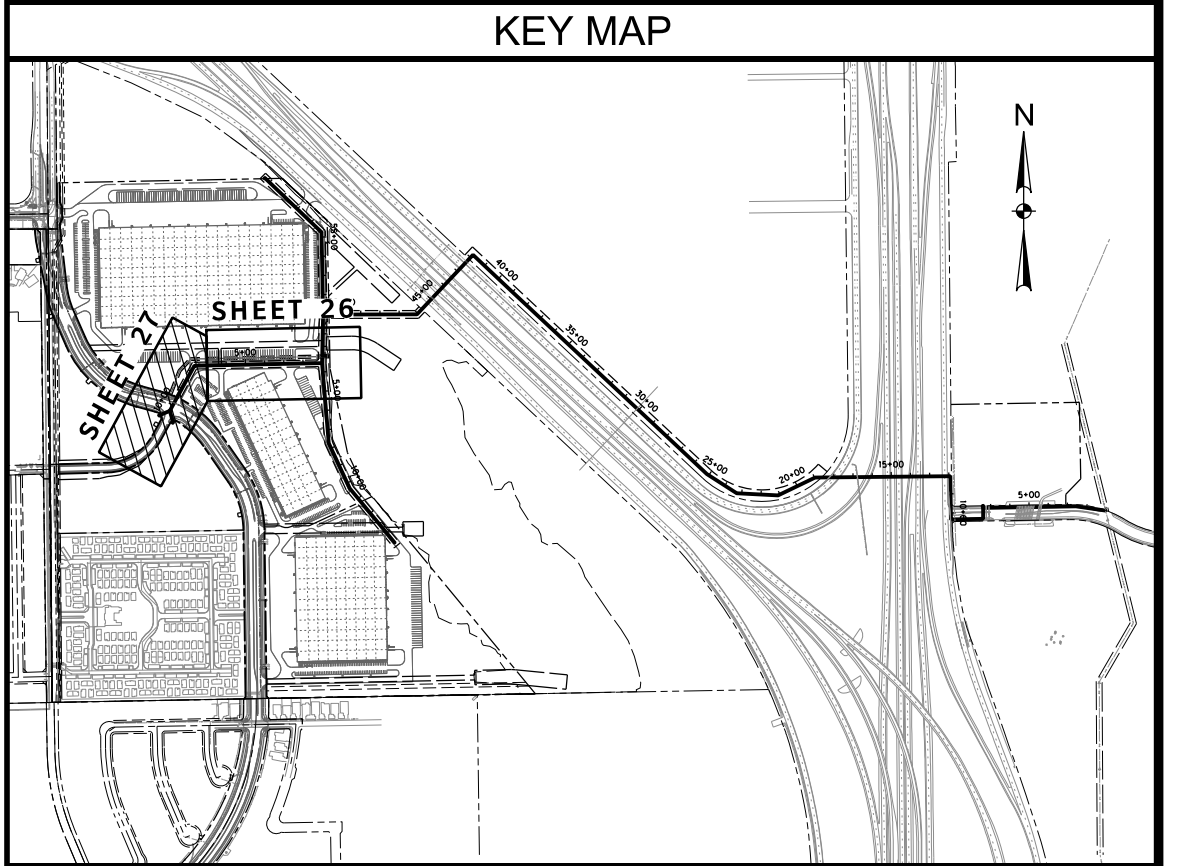
PLAN & PROFILE

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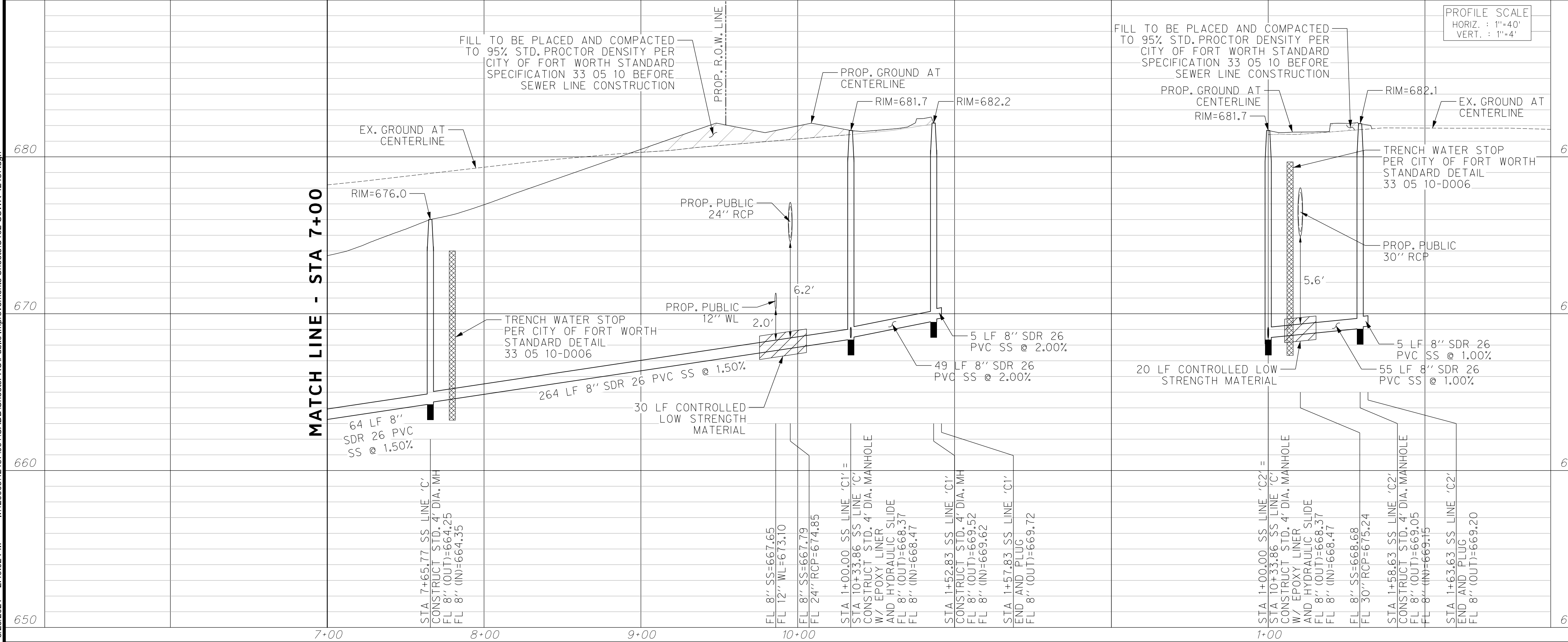


REVISIONS		
NO.	DESCRIPTION	DATE
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SANITARY SEWER LINE 'C' **SANITARY SEWER LINE 'C2'**



CONSTRUCTION NOTES

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THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATING AT EACH LOCATION:

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 FORT WORTH WATER DEPT.-FIELD OPERATIONS WATER (817) 925-2360
 FORT WORTH WATER DEPT.-FIELD OPERATIONS SANITARY SEWER (817) 223-7438
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 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD
SANITARY SEWER LINE 'C' STA 7+00 TO END

PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 27 OF 189
DRAWN: PTS			

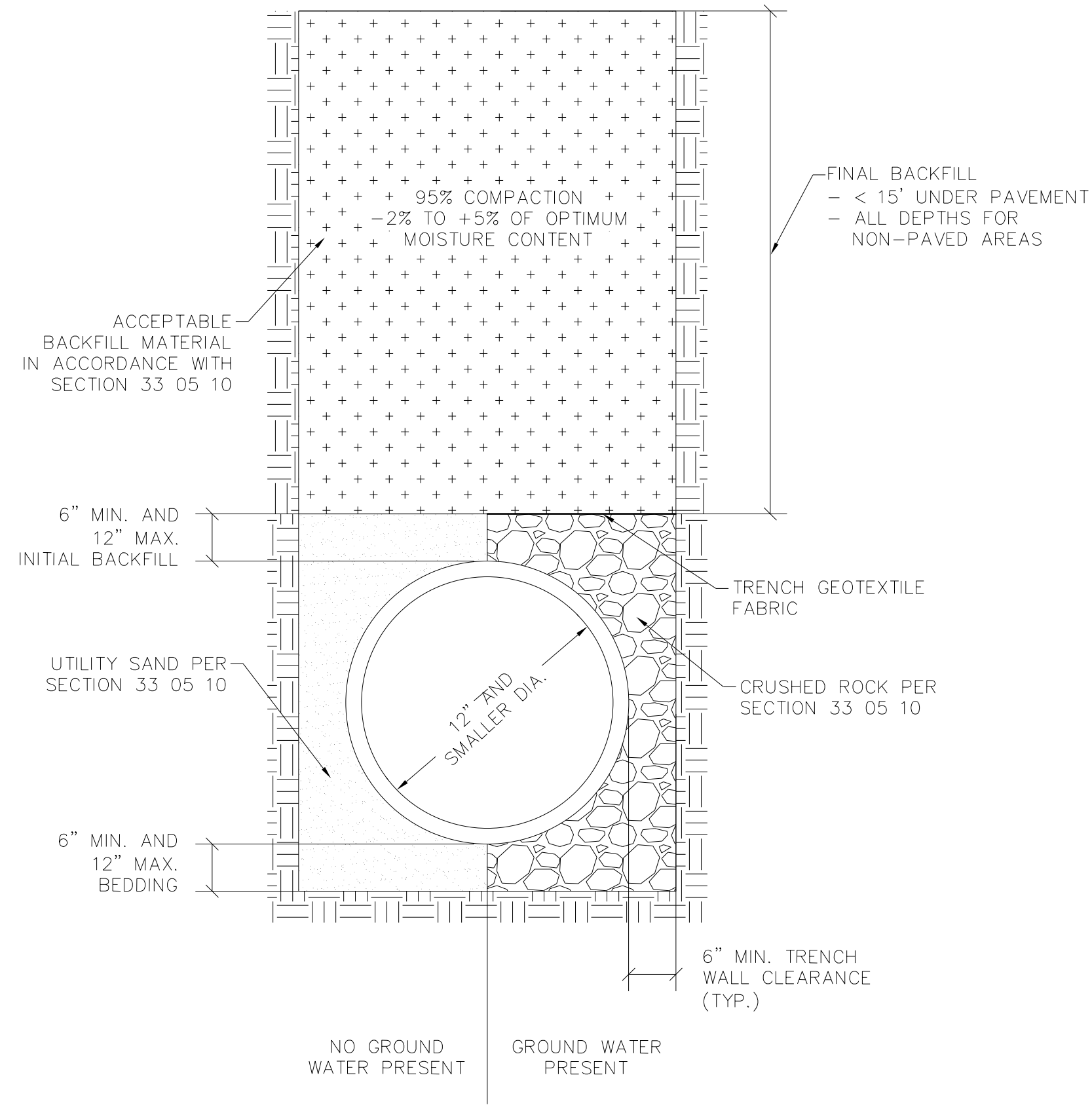
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REVISIONS		
NO.	DESCRIPTION	DATE
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HALFF
 TBPE FIRM #F-312
 3803 PARKWOOD BLVD., STE 800
 FRISCO, TEXAS 75034-8640
 (214) 217-6664



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01 33 05 10-D001 ACCEPTABLE BACKFILL
 33 05 10-D101 EMBEDMENT FOR 12" WATER LINES
STANDARD DEPTH WATERLINE EMBEDMENT

CONSTRUCTION NOTES

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 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

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DOE # K-2840
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 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES**

**TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 WATER & SANITARY SEWER
 DETAILS (SHEET 1 OF 16)**

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 28 OF 189
DRAWN: PTS			

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 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

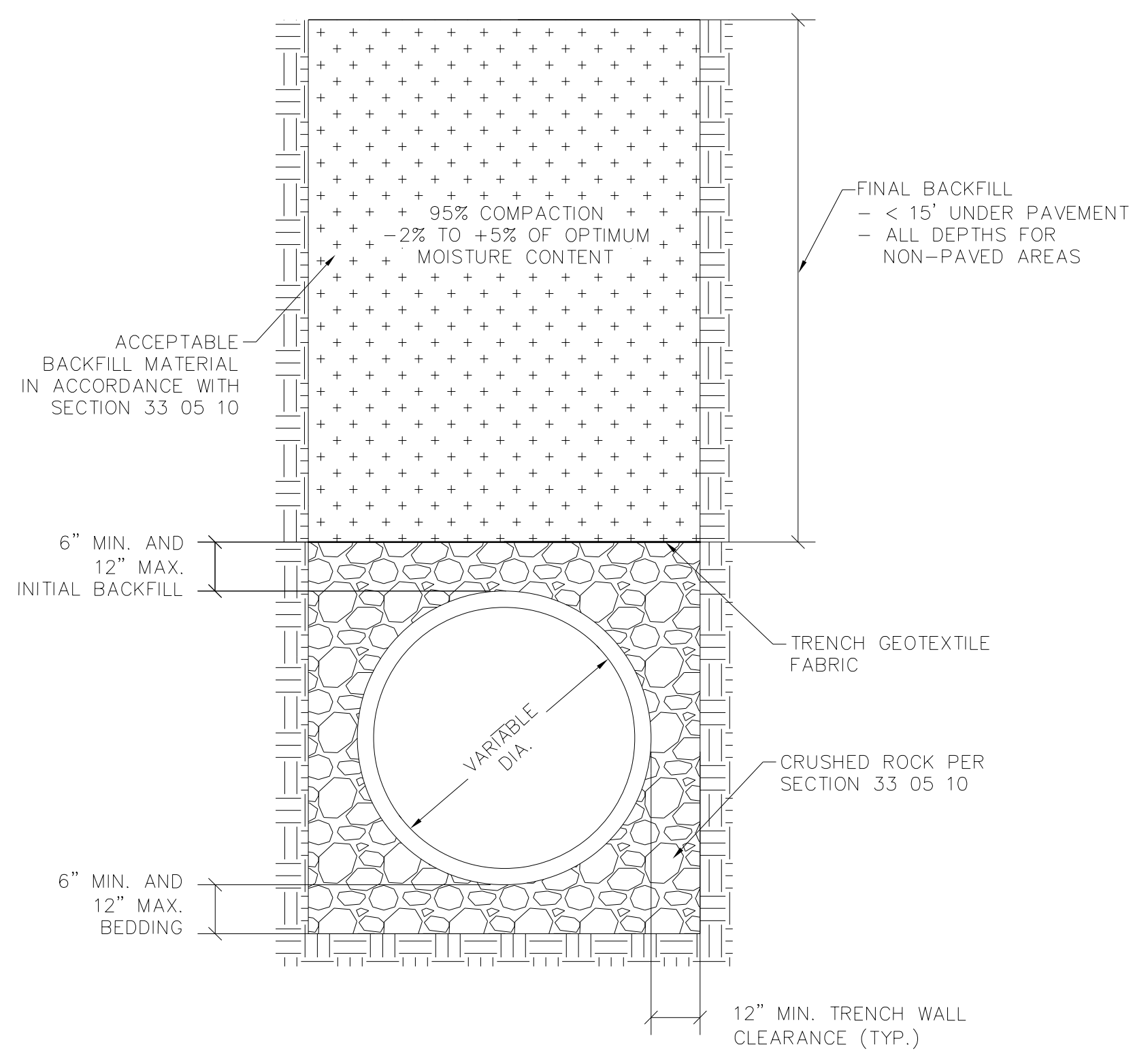
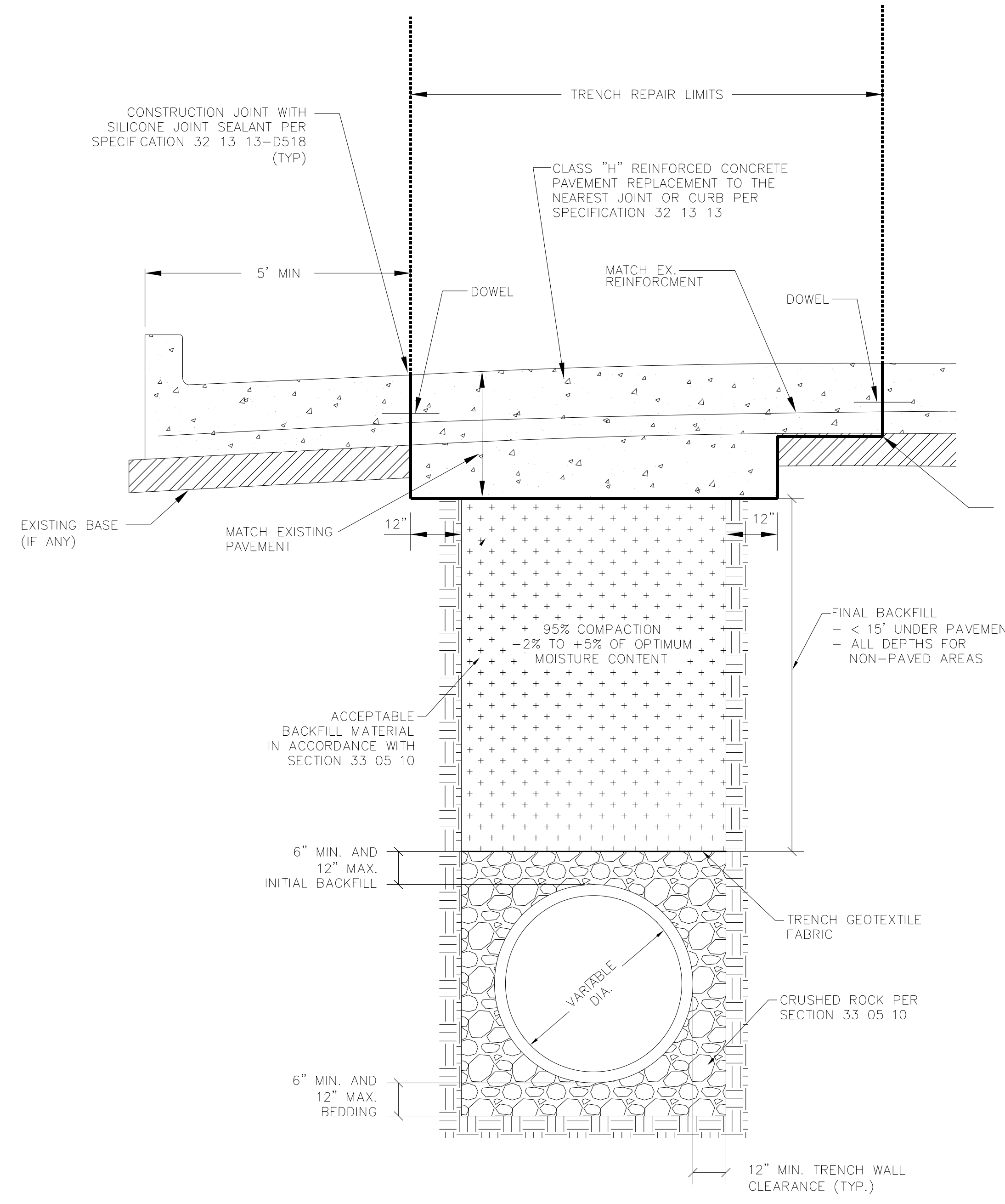
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
WATER & SANITARY SEWER
 DETAILS (SHEET 2 OF 16)

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 29 OF 189
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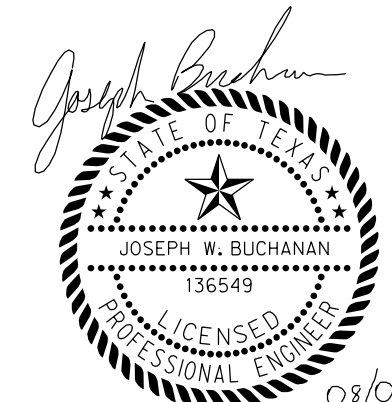
02 33 05 10-D001 ACCEPTABLE BACKFILL
 33 05 10-D201A EMBEDMENT FOR 15" SEWER LINES
 STANDARD DEPTH SEWER EMBEDMENT

03 33 05 10-D001 ACCEPTABLE BACKFILL
 33 05 10-D201A EMBEDMENT FOR 15" SEWER LINES
 STANDARD DEPTH SEWER EMBEDMENT WITH SURFACE REPAIR

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ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

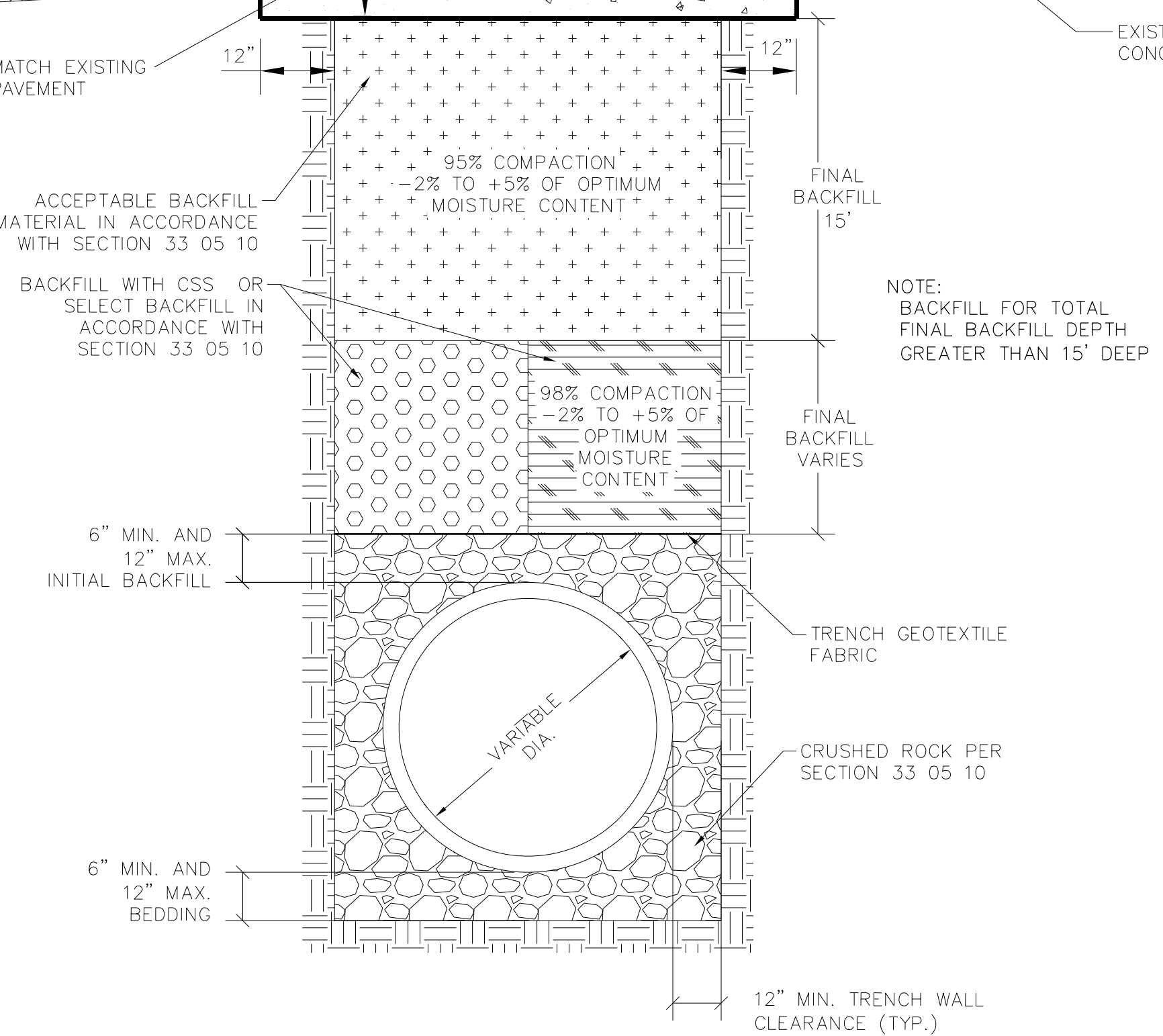
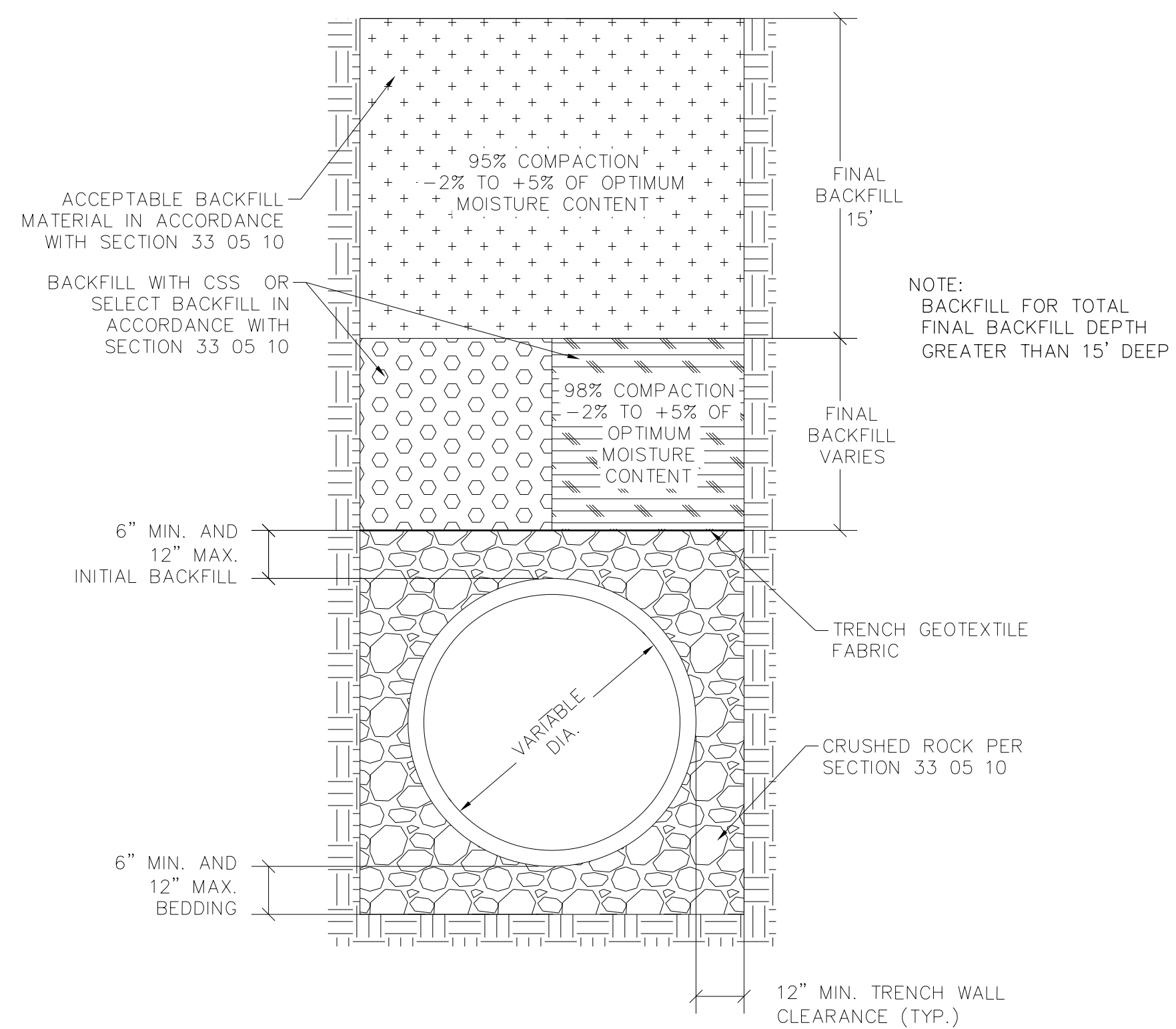
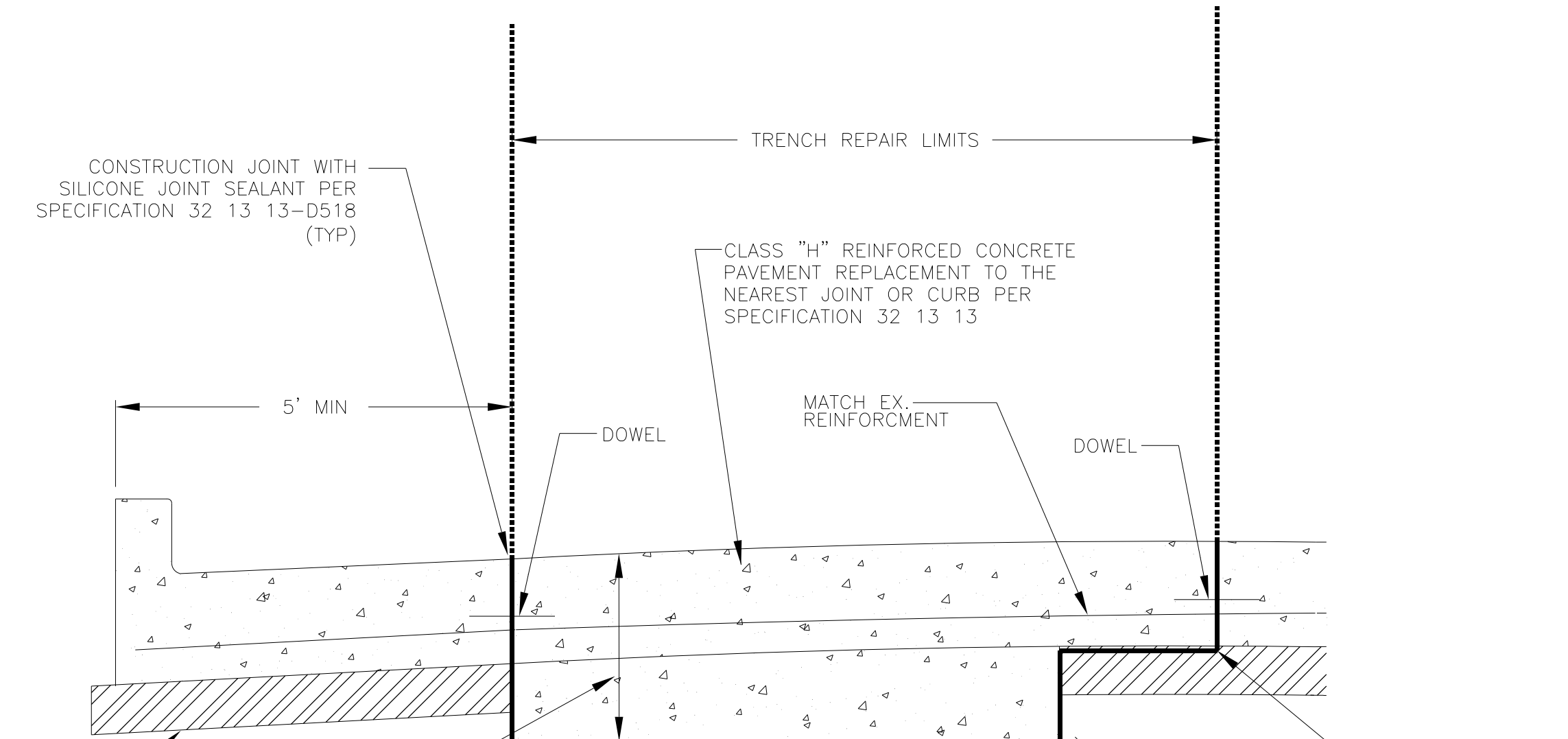
**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT
 SERVICES**

**TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 WATER & SANITARY SEWER
 DETAILS (SHEET 3 OF 16)**

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 30 OF 189
DRAWN: PTS			

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04 33 05 10-D005 DEEP TRENCH BACKFILL
 33 05 10-D201A EMBEDMENT FOR 15" SEWER LINES
DEEP TRENCH SEWER EMBEDMENT

05 33 05 10-D005 DEEP TRENCH BACKFILL
 33 05 10-D201A EMBEDMENT FOR 15" SEWER LINES
DEEP TRENCH SEWER EMBEDMENT WITH SURFACE REPAIR

8/25/2021 2:49:06 PM I:\420068\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C153-DTW&SS-42487.dgn

REVISIONS

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 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

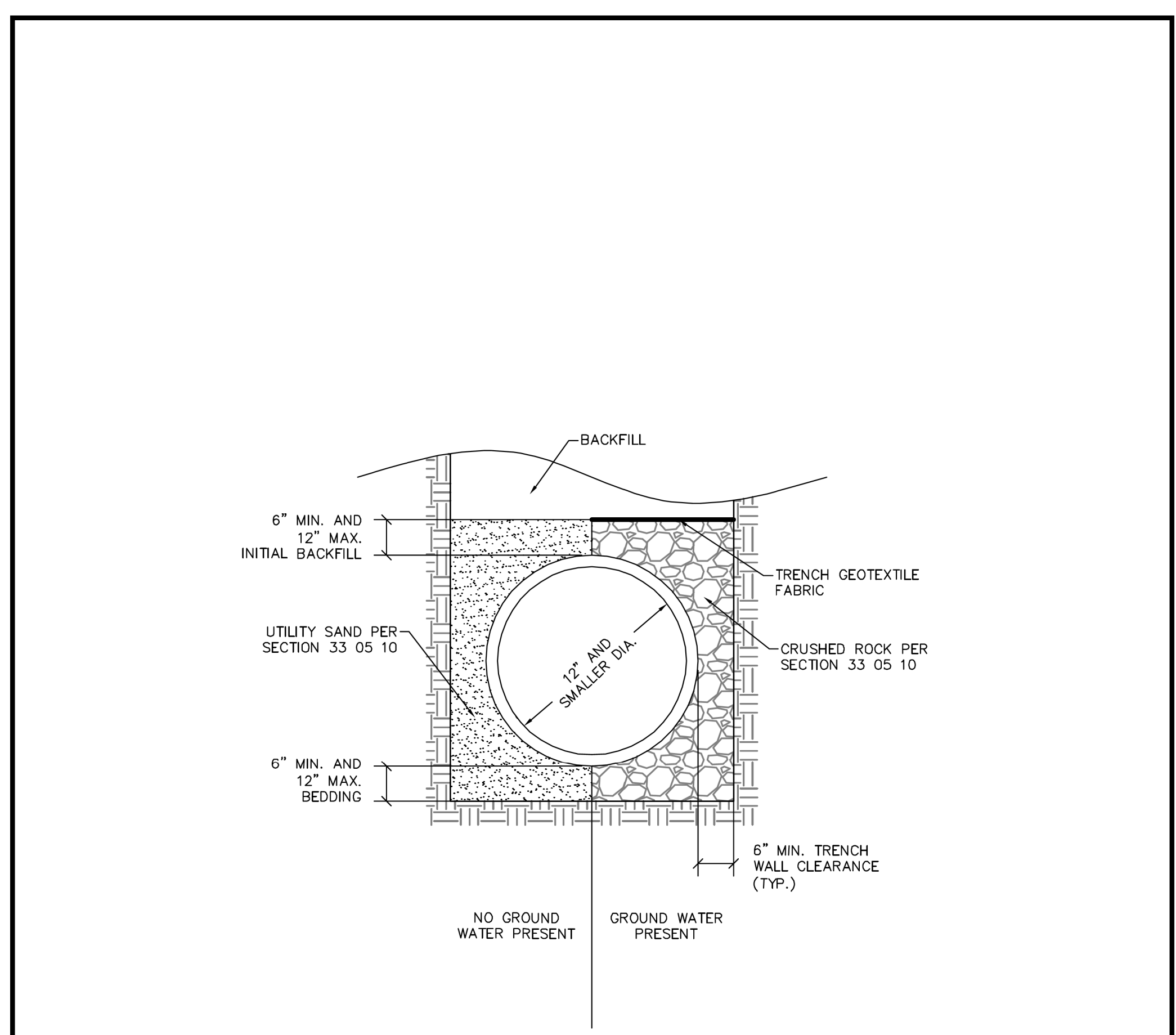
CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
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ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO.
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 MAP NO. XXXX-XXX

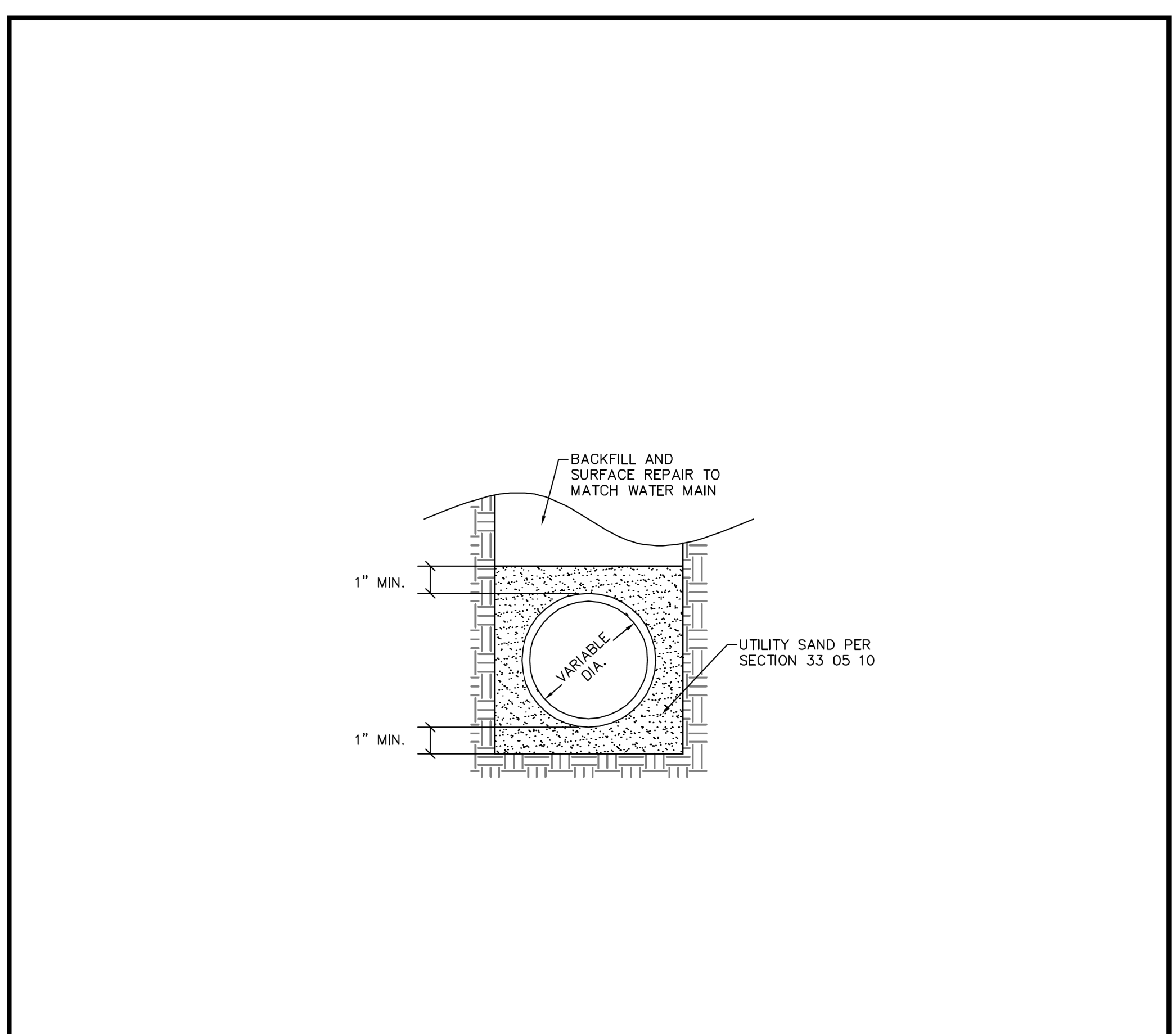
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
WATER & SANITARY SEWER
 DETAILS (SHEET 4 OF 16)

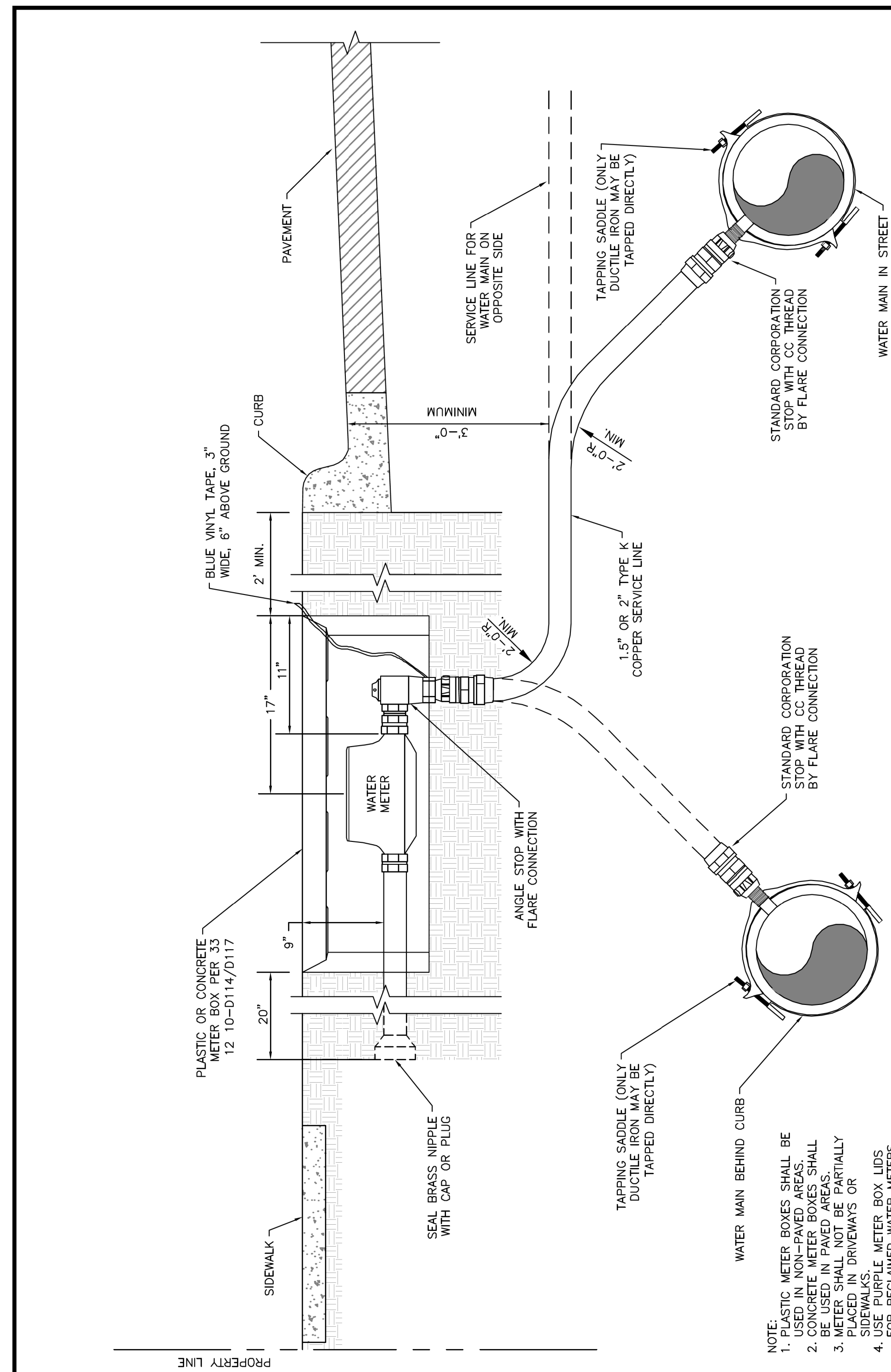
DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 31 OF 189
DRAWN: PTS			



	CITY OF FORT WORTH, TEXAS EMBEDMENT FOR WATER LINES 12-INCH AND SMALLER	REVISED: 08-31-2012
		33 05 10-D101



	CITY OF FORT WORTH, TEXAS EMBEDMENT FOR WATER SERVICES	DATE: 08-31-2012
		33 05 10-D104

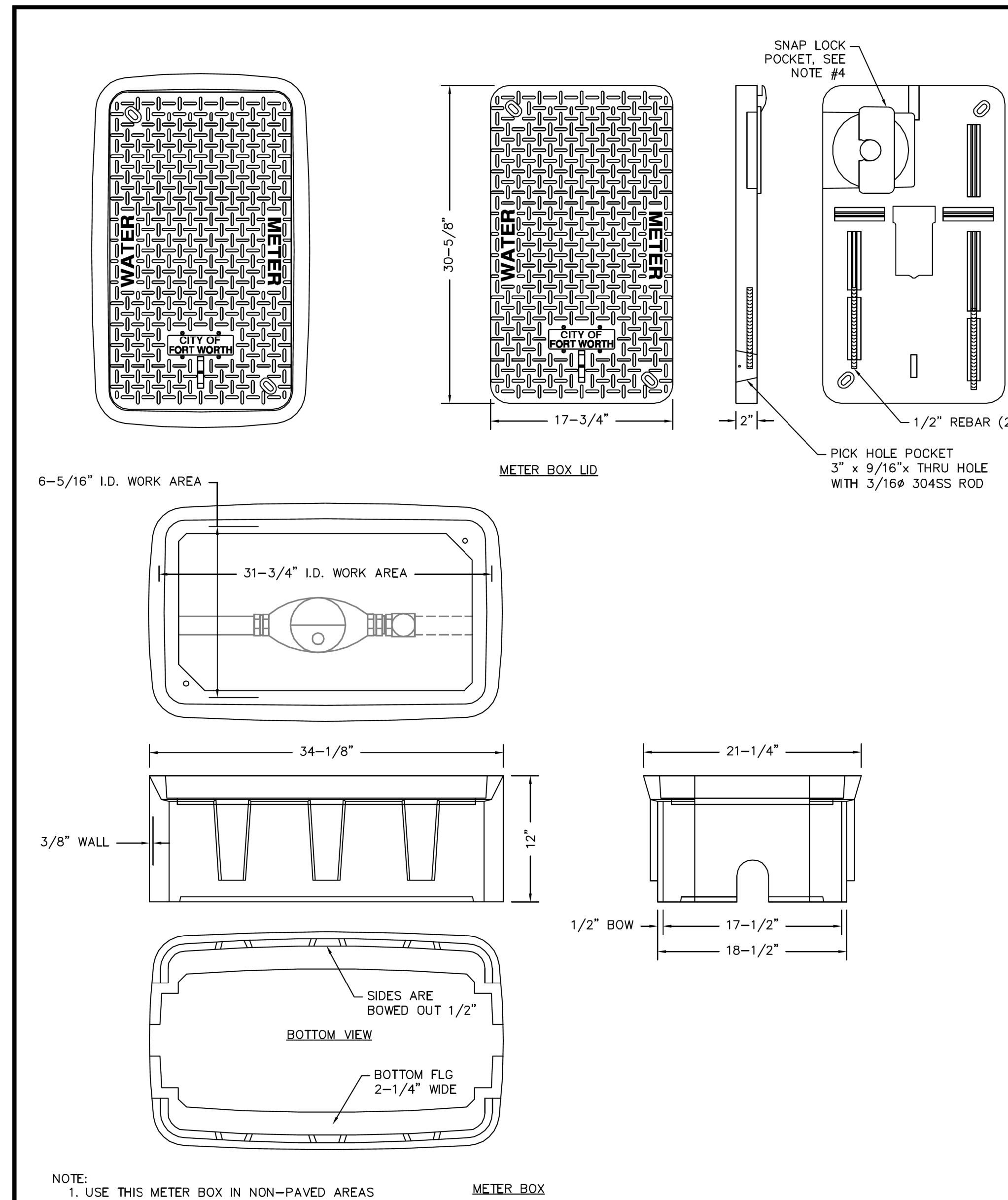


REVISED: 08-31-2012
33 12 10-D112

CITY OF FORT WORTH, TEXAS
1-1/2 & 2-INCH WATER SERVICE

FORT WORTH

- NOTE: PLASTIC METER BOXES SHALL BE USED IN NON-PAVED AREAS. CONCRETE METER BOXES SHALL BE USED IN PAVED AREAS. METER SHALL NOT BE PARTIALLY PLACED IN DRIVEWAYS OR SIDEWALKS. USE PURPLE METER BOX LIDS FOR RECLAIMED WATER METERS.



- NOTE:
- USE THIS METER BOX IN NON-PAVED AREAS ONLY.
 - DIMENSIONS ± 1/8" U.N.O.
 - WALL THICKNESS: 3/8"
 - SNAP LOCK POCKET WILL RECEIVE AMR/AMI DEVICE ENDPOINT. SNAP LOCK SLOT IS 1.80" ± 0.015" TO ALLOW FOR A FINGER FORCE INSTALL. POCKET HEIGHT IS 15/16" FOR MIN 1/8" AIR GAP.

FORT WORTH

CITY OF FORT WORTH, TEXAS
**2-INCH STANDARD PLASTIC METER BOX
(1-1/2 & 2-INCH METERS)**

REVISED: 08-31-2012
33 12 10-D114

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DOE # K-2840
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TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
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SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
MAP NO. XXXX-XXX

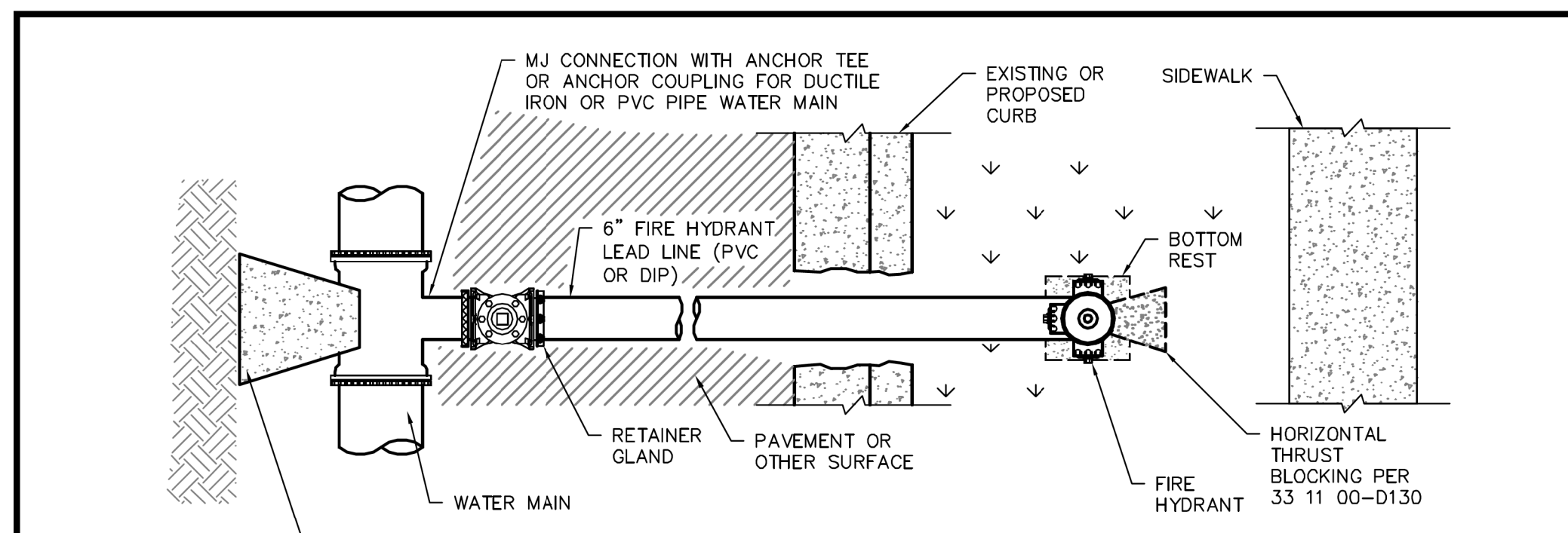
CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING &
INFRASTRUCTURE PLAN REVIEW CENTER

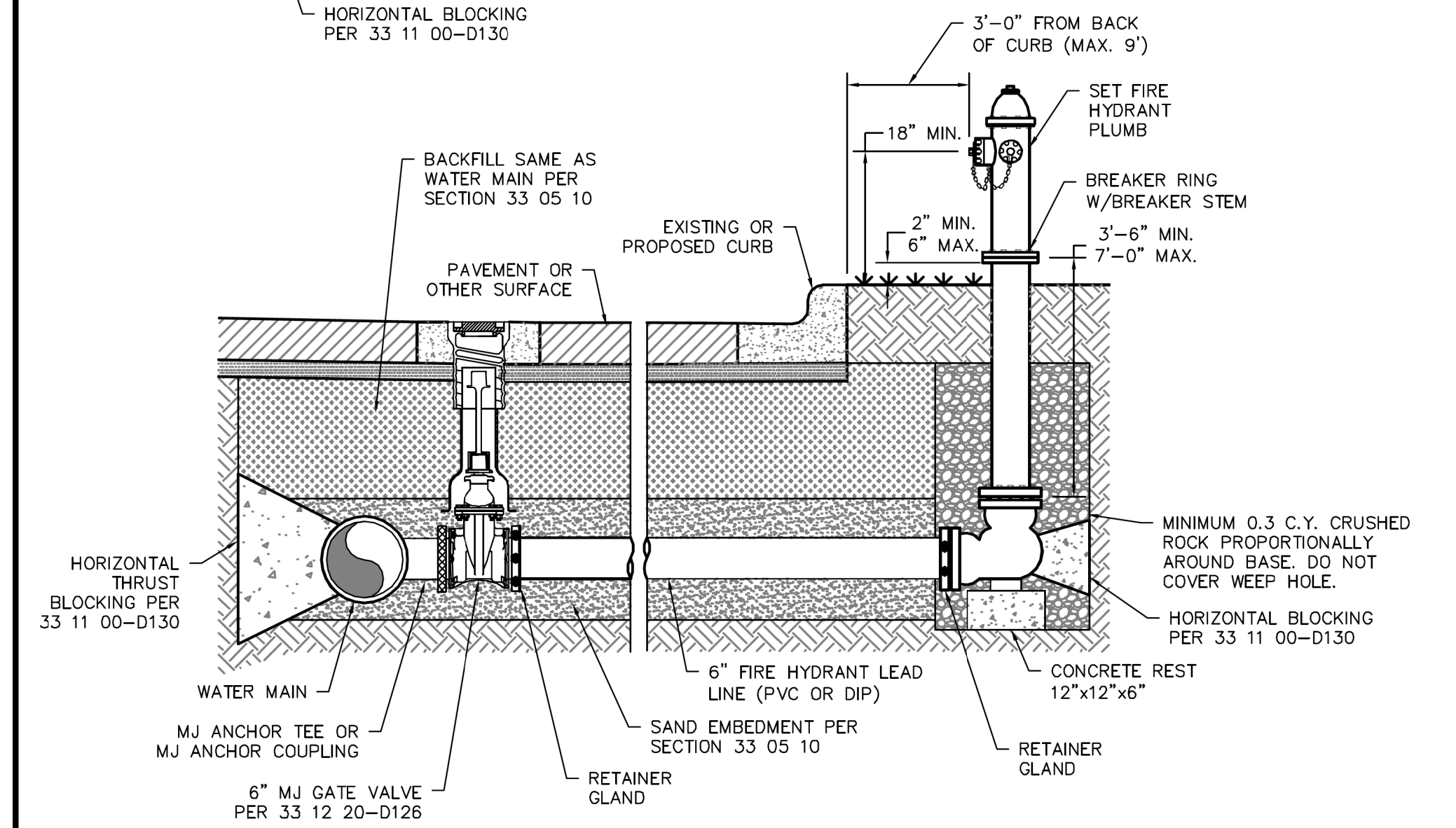
EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
**WATER & SANITARY SEWER
DETAILS (SHEET 5 OF 16)**

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 32 OF 189
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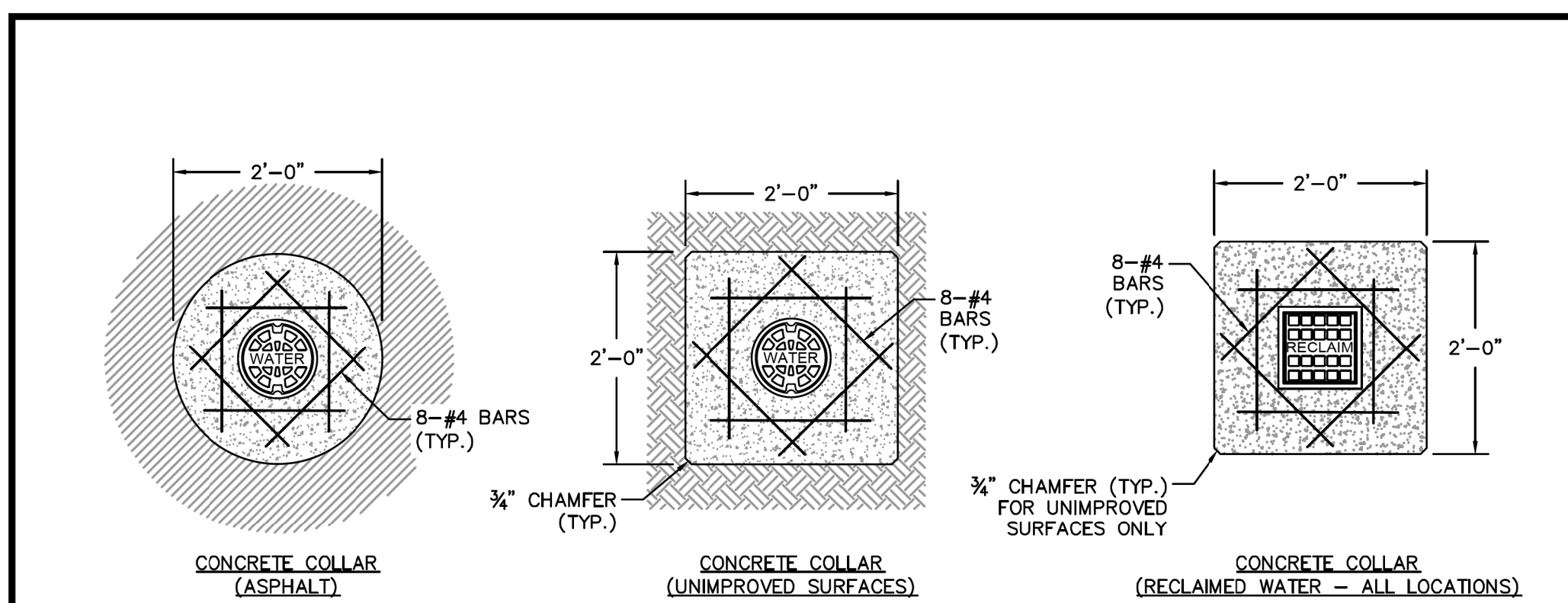
PLAN VIEW



ELEVATION VIEW

- NOTE:
- DO NOT LOCATE FIRE HYDRANT IN SIDEWALK.
 - PROVIDE FOUR (4) FOOT CLEARANCE AROUND FIRE HYDRANT.
 - EXTENSION SECTIONS MAY BE USED AS REQUIRED AND INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS.
 - FOR CONCRETE PRESSURE PIPE OR BURIED STEEL PIPE, PROVIDE AN ISOLATION KIT AND WAX PETROLATUM TAPE COATING PER SECTION 33 04 10 AND FLxMJ GATE VALVE.

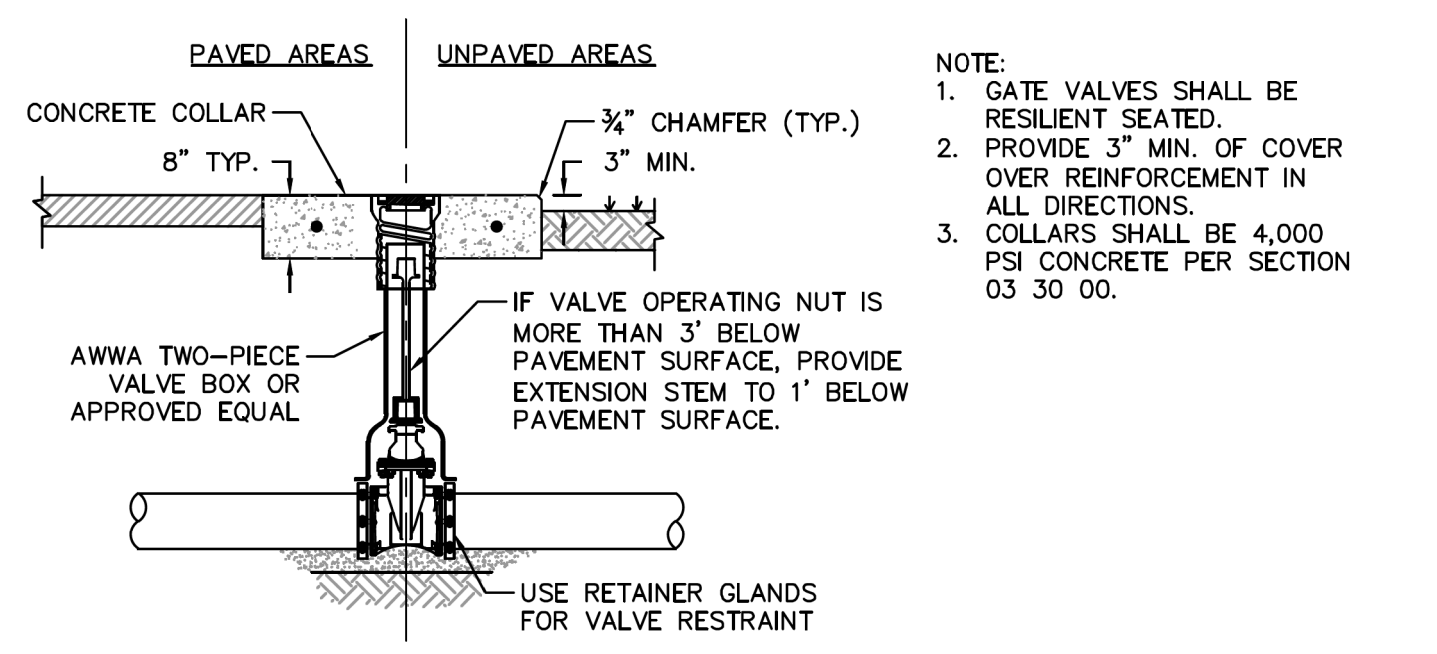
	CITY OF FORT WORTH, TEXAS	REVISED: 06-28-2013
	STANDARD FIRE HYDRANT (STRAIGHT)	33 12 40-D120



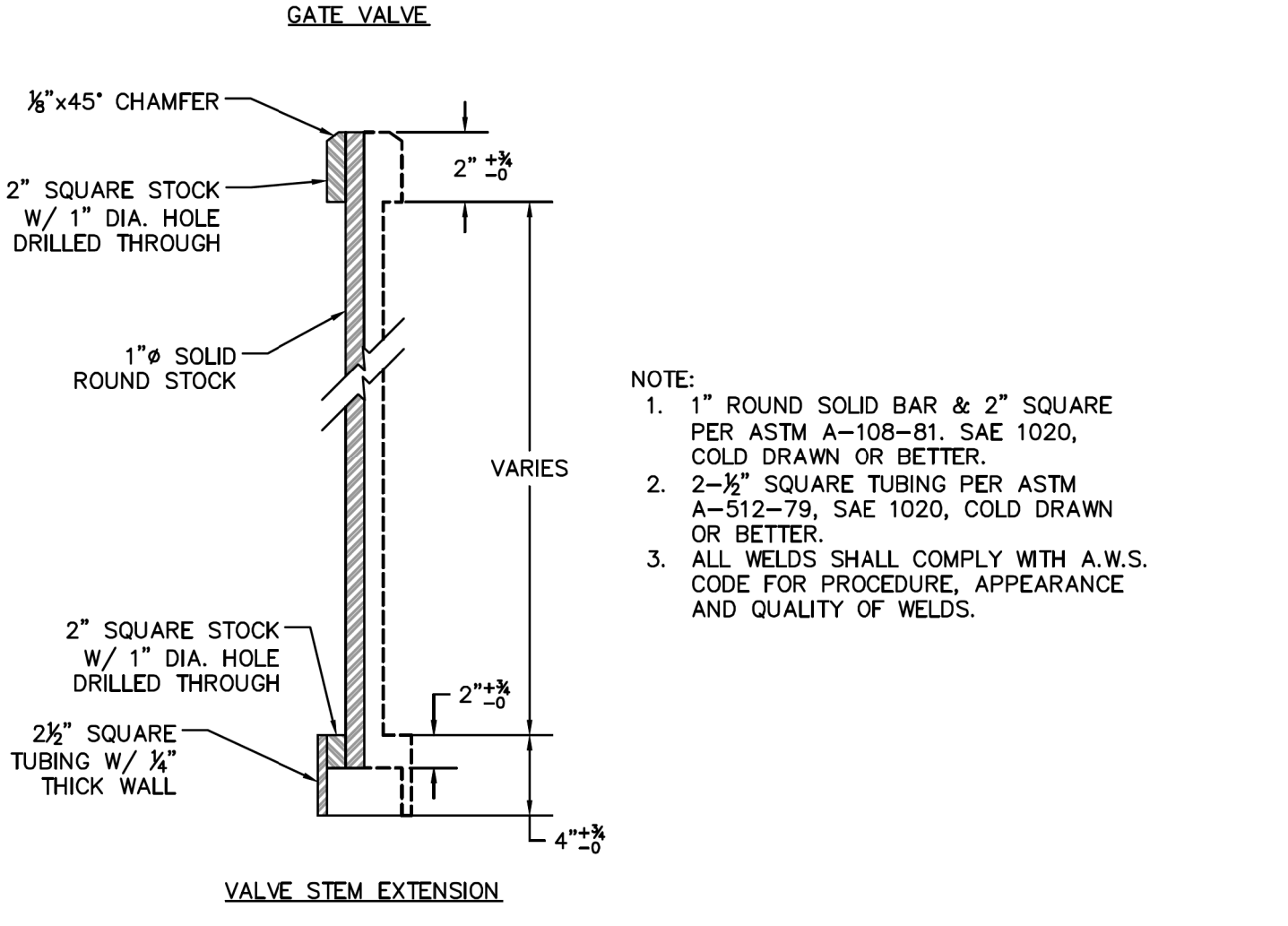
CONCRETE COLLAR (ASPHALT)

CONCRETE COLLAR (UNIMPROVED SURFACES)

CONCRETE COLLAR (RECLAIMED WATER - ALL LOCATIONS)



- NOTE:
- GATE VALVES SHALL BE RESILIENT SEATED.
 - PROVIDE 3\"/>



- NOTE:
- 1\"/>

	CITY OF FORT WORTH, TEXAS	REVISED: 10-18-2018
	WATER DISTRIBUTION GATE VALVE & BOX (12\"/> 	33 12 20-D126

REVISIONS

NO.	DESCRIPTION	DATE
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 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO.
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
 EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
WATER & SANITARY SEWER
 DETAILS (SHEET 6 OF 16)

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 33 OF 189
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REVISIONS

NO.	DESCRIPTION	DATE
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CONSTRUCTION NOTES

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 THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATING AT EACH LOCATION:
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 FORT WORTH WATER DEPT.-FIELD OPERATIONS SANITARY SEWER (817) 223-7438
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 FORT WORTH T&PW (817) 871-8100
 ATMOS ENERGY (817) 215-4366
 ONCOR GAS & ELECTRIC (817) 215-6214
 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

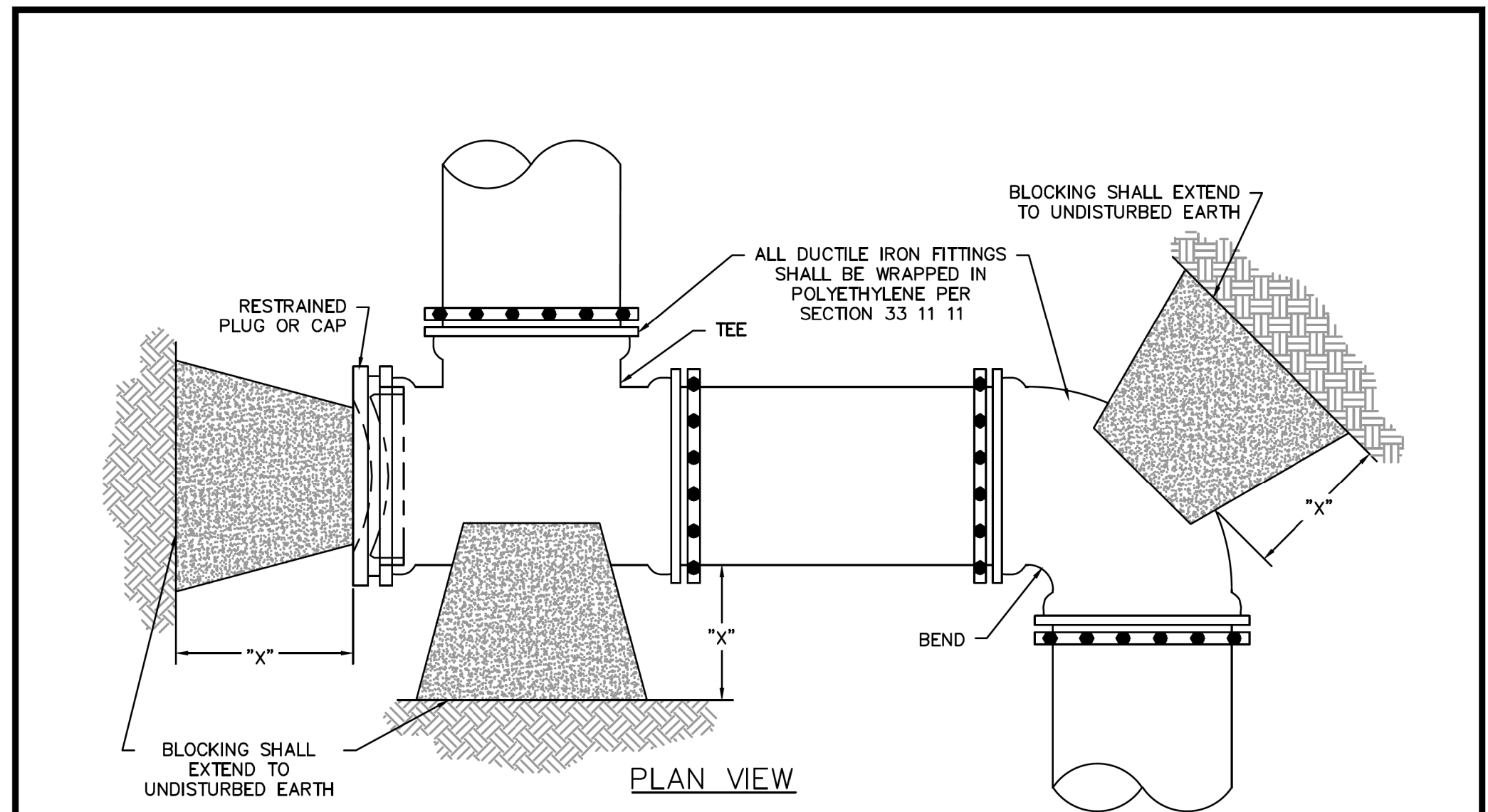
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ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO.
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
WATER & SANITARY SEWER
 DETAILS (SHEET 7 OF 16)

DESIGNED: TMW	SCALE:	DATE:	SHEET
DRAWN: PTS	N.T.S.	06/08/2021	34 OF 189

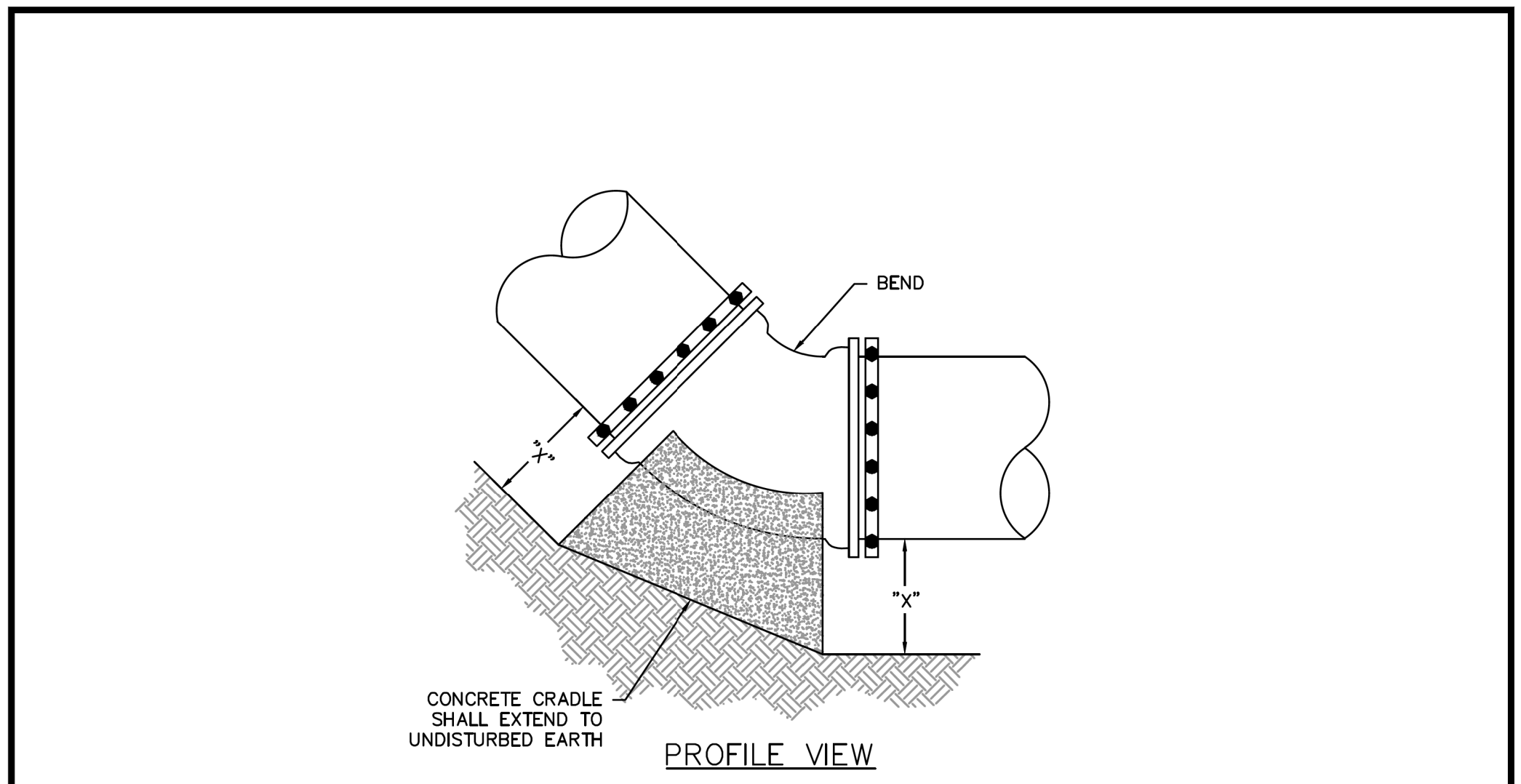


PIPE SIZE	"X" DIM.**	PLUGS, TEES, DEAD-ENDS MIN. AREA (SF)	BENDS			
			90° BENDS MIN. AREA (SF)	45° BENDS MIN. AREA (SF)	22.5° BENDS MIN. AREA (SF)	11.25° BENDS MIN. AREA (SF)
6"	1'-6"	4.00*	4.50	4.00*	4.00*	4.00*
8"	1'-6"	5.65	8.00	4.33	4.00*	4.00*
10"	1'-6"	8.84	12.50	6.76	4.00*	4.00*
12"	1'-6"	12.72	17.99	9.74	4.96	4.00*
16"	2'-0"	22.62	31.99	17.31	8.83	4.43
20"	2'-0"	35.34	49.98	27.05	13.79	6.93
24"	2'-0"	50.89	71.97	38.95	19.86	9.98

*MINIMUM THRUST BLOCKING SURFACE AREA SHALL BE 4 SQUARE FEET.
 **DIMENSION "X" TO BE A MINIMUM OF ONE FOOT AND SIX INCHES, BUT IS TO BE INCREASED WHERE NECESSARY TO PROVIDE BEARING AGAINST UNDISTURBED TRENCH WALL.

- NOTES:
- THRUST BLOCKING AREAS SHOWN ARE BASED ON:
 - 225 PSI TEST PRESSURE
 - 3,000 PSF HORIZONTAL OR LATERAL BEARING PRESSURE FOR ACCEPTABLE SOILS
 - MINIMUM COVER OF 42"
 - A SAFETY FACTOR OF 1.5.
 - THE ENGINEER SHALL PROVIDE A SEPARATE BLOCKING TABLE WHEN THE CONDITIONS DO NOT MEET THE ABOVE ASSUMPTIONS.
 - THE CONTRACTOR IS REQUIRED TO PROVIDE THRUST RESTRAINT BY MEANS OF THRUST BLOCKING FOR ALL PIPES. THIS ITEM SHALL BE CONSIDERED SUBSIDIARY TO THE VARIOUS ITEMS BID.
 - ALL MJ FITTINGS SHALL BE ADDITIONALLY RESTRAINED WITH RETAINER GLANDS.
 - BLOCKING FOR WATER LINES LARGER THAN 24" SHALL BE DESIGNED FOR THE SPECIFIC LOCATION AND SHOWN ON THE DRAWINGS.
 - ALL DUCTILE IRON FITTINGS SHALL BE WRAPPED IN POLYETHYLENE ENCASUREMENT PRIOR TO PLACING OF BLOCKING.
 - CONCRETE MATERIAL SHALL CONFORM TO SECTION 03 30 00.

	CITY OF FORT WORTH, TEXAS	REVISED: 12-30-2016
	HORIZONTAL THRUST BLOCKING	33 11 00-D130



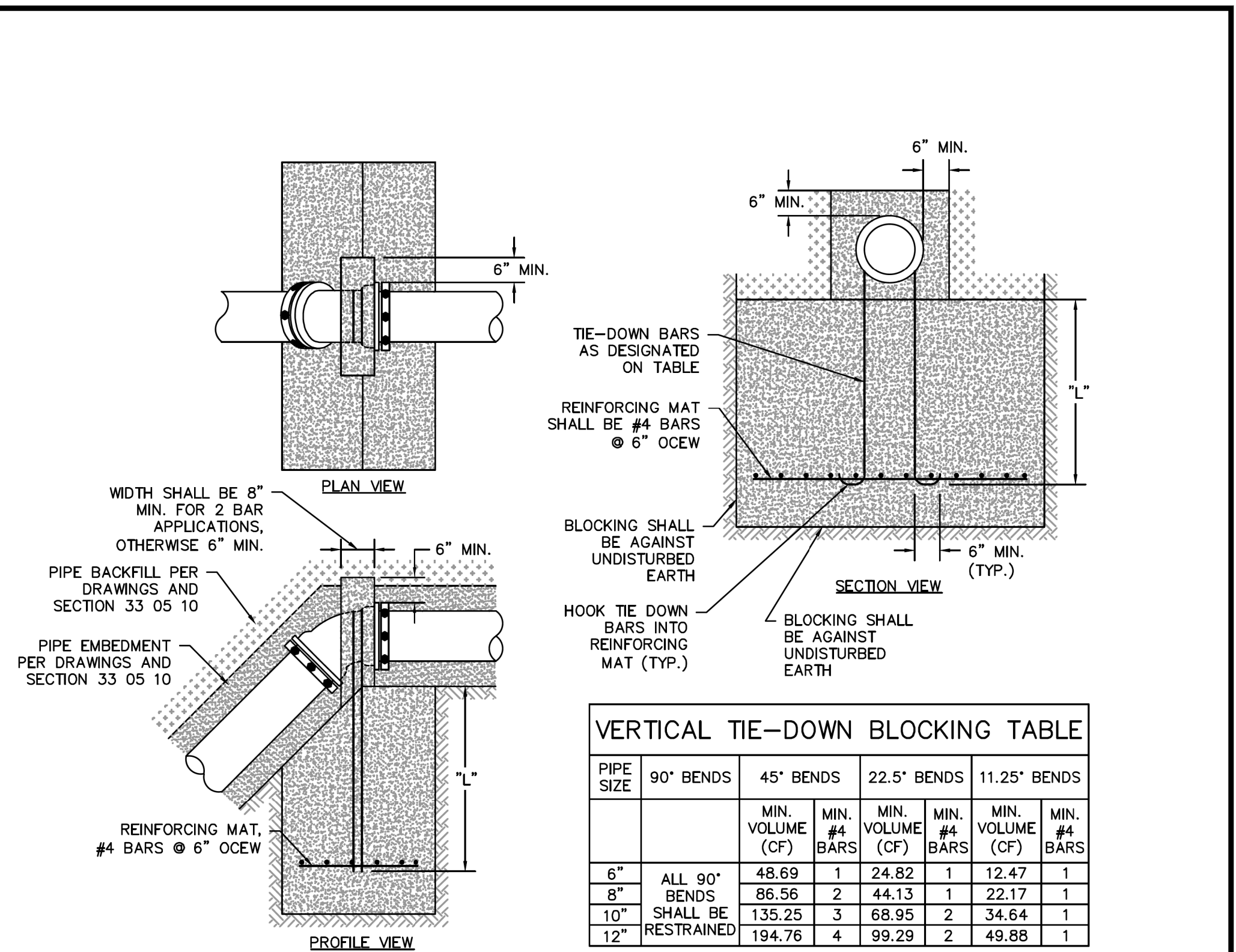
PIPE SIZE	"X" DIM.**	BENDS			
		90° BENDS MIN. AREA (SF)	45° BENDS MIN. AREA (SF)	22.5° BENDS MIN. AREA (SF)	11.25° BENDS MIN. AREA (SF)
6"	1'-6"	4.50	4.00*	4.00*	4.00*
8"	1'-6"	8.00	4.33	4.00*	4.00*
10"	1'-6"	12.50	6.76	4.00*	4.00*
12"	1'-6"	17.99	9.74	4.96	4.00*
16"	2'-0"	31.99	17.31	8.83	4.43
20"	2'-0"	49.98	27.05	13.79	6.93
24"	2'-0"	71.97	38.95	19.86	9.98

*MINIMUM THRUST BLOCKING SURFACE AREA SHALL BE 4 SQUARE FEET.
 **DIMENSION "X" TO BE A MINIMUM OF ONE FOOT AND SIX INCHES, BUT IS TO BE INCREASED WHERE NECESSARY TO PROVIDE BEARING AGAINST UNDISTURBED TRENCH BOTTOM.

- NOTES:
- THRUST BLOCKING AREAS SHOWN ARE BASED ON:
 - 225 PSI TEST PRESSURE
 - 3,000 PSF HORIZONTAL OR LATERAL BEARING PRESSURE FOR ACCEPTABLE SOILS
 - MINIMUM COVER OF 42"
 - A SAFETY FACTOR OF 1.5.
 - THE ENGINEER SHALL PROVIDE A SEPARATE BLOCKING TABLE WHEN THE CONDITIONS DO NOT MEET THE ABOVE ASSUMPTIONS.
 - THE CONTRACTOR IS REQUIRED TO PROVIDE THRUST RESTRAINT BY MEANS OF THRUST BLOCKING FOR ALL PIPES. THIS ITEM SHALL BE CONSIDERED SUBSIDIARY TO THE VARIOUS ITEMS BID.
 - ALL MJ FITTINGS SHALL BE ADDITIONALLY RESTRAINED WITH RETAINER GLANDS.
 - CRADLES FOR WATER LINES LARGER THAN 24" SHALL BE DESIGNED FOR THE SPECIFIC LOCATION AND SHOWN ON THE DRAWINGS.
 - ALL DUCTILE IRON FITTINGS SHALL BE WRAPPED IN POLYETHYLENE ENCASUREMENT PRIOR TO PLACING OF BLOCKING.
 - CONCRETE MATERIAL SHALL CONFORM TO SECTION 03 30 00.

	CITY OF FORT WORTH, TEXAS	REVISED: 12-30-2016
	CONCRETE CRADLE	33 11 00-D131

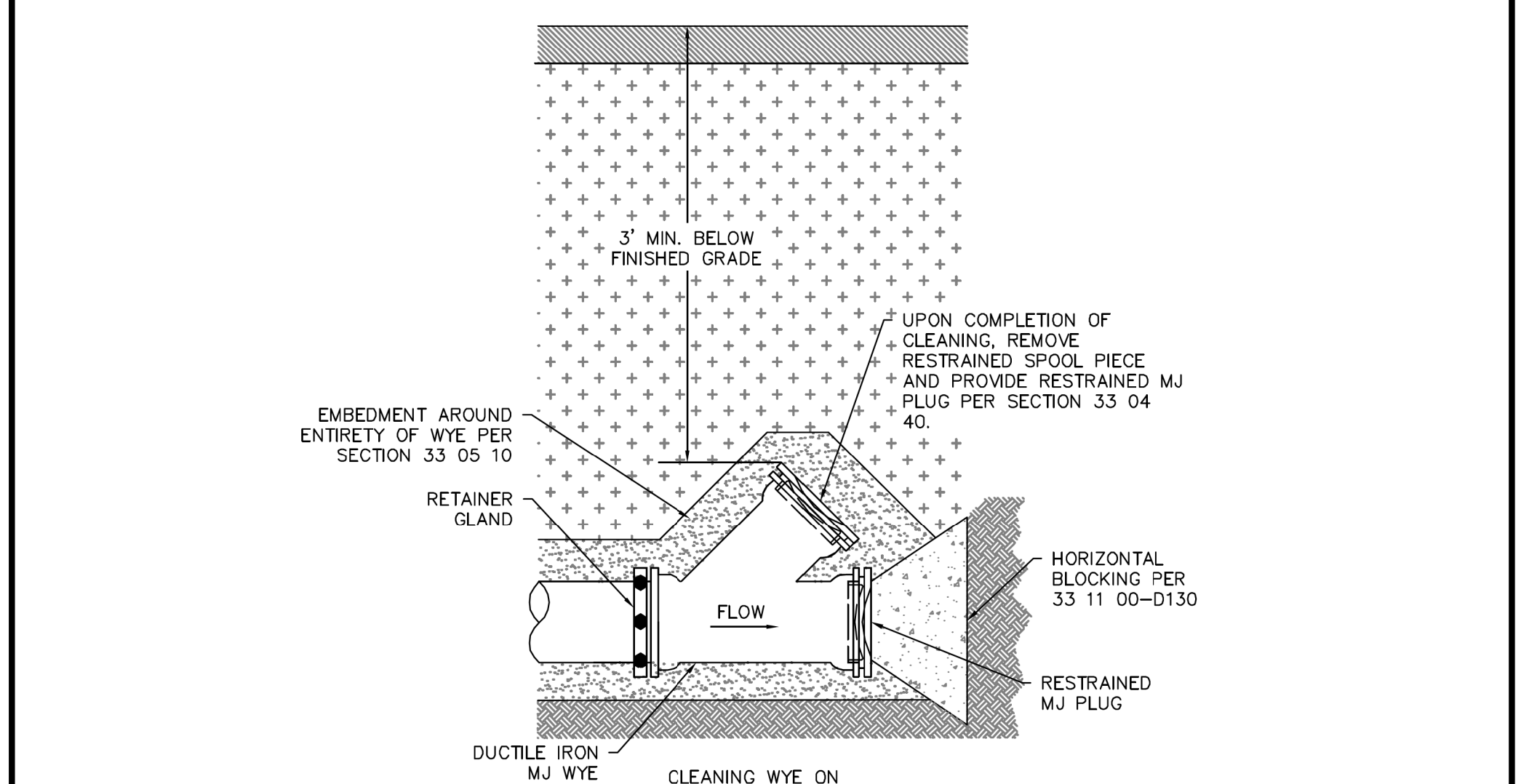
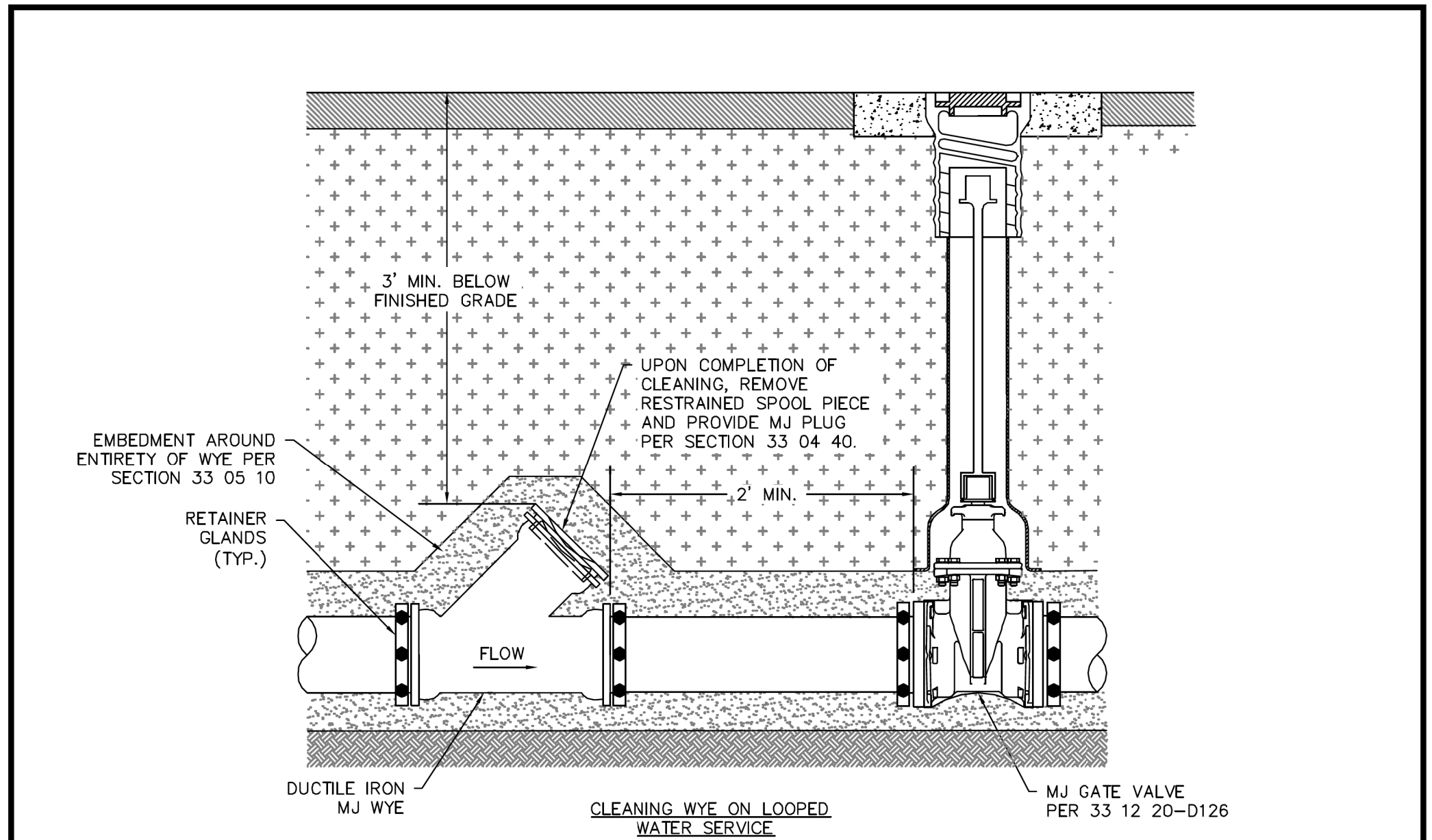
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PIPE SIZE	90° BENDS	45° BENDS		22.5° BENDS		11.25° BENDS	
		MIN. VOLUME (CF)	MIN. #4 BARS	MIN. VOLUME (CF)	MIN. #4 BARS	MIN. VOLUME (CF)	MIN. #4 BARS
6"	ALL 90° BENDS SHALL BE RESTRAINED	48.69	1	24.82	1	12.47	1
8"		86.56	2	44.13	1	22.17	1
10"		135.25	3	68.95	2	34.64	1
12"		194.76	4	99.29	2	49.88	1

- NOTES:
- VERTICAL TIE-DOWN BLOCKING VOLUMES SHOWN ARE BASED ON:
 - 225 PSI TEST PRESSURE
 - 150 PCF CONCRETE DENSITY
 - A SAFETY FACTOR OF 1.5.
 - BAR QUANTITIES ARE BASED ON:
 - 30 KSI #4 STEEL REINFORCEMENT BAR
 - A FACTOR OF SAFETY OF 1.5
 - "L" SHALL BE A MINIMUM OF 18".
 - THE ENGINEER SHALL PROVIDE A SEPARATE VERTICAL TIE-DOWN BLOCKING TABLE WHEN THE CONDITIONS DO NOT MEET THE ABOVE ASSUMPTIONS.
 - THE CONTRACTOR IS REQUIRED TO PROVIDE THRUST RESTRAINT BY MEANS OF VERTICAL TIE-DOWN BLOCKING FOR ALL PIPES. THIS ITEM SHALL BE CONSIDERED SUBSIDIARY TO THE VARIOUS ITEMS BID.
 - ALL MJ FITTINGS SHALL BE ADDITIONALLY RESTRAINED WITH RETAINER GLANDS.
 - WIDTHS, LENGTHS AND DEPTHS MAY VARY BUT SATISFACTION OF ABOVE MINIMUM VOLUMES MUST BE DEMONSTRATED.
 - KEEP CONCRETE CLEAR OF PIPE JOINTS AND BOLTS.
 - VERTICAL TIE-DOWN BLOCKING FOR LINES 16" AND LARGER SHALL BE DESIGNED FOR THE SPECIFIC LOCATION AND SHOWN ON THE DRAWINGS.
 - ALL DUCTILE IRON FITTINGS SHALL BE WRAPPED IN POLYETHYLENE ENCASEMENT PRIOR TO PLACING OF BLOCKING.
 - CONCRETE MATERIAL SHALL CONFORM TO SECTION 03 30 00.

	CITY OF FORT WORTH, TEXAS	REVISED: 12-30-2016
	VERTICAL TIE-DOWN BLOCKING	33 11 00-D132



- NOTES:
- WYES SHALL ONLY BE LOCATED WHERE INDICATED ON THE DRAWINGS.
 - ALL WATER PIPING 12" AND SMALLER SHALL BE DUCTILE IRON OR PVC.

	CITY OF FORT WORTH, TEXAS	REVISED: 05-08-2013
	STANDARD CLEANING WYE FOR WATER DISTRIBUTION PIPE (12" AND SMALLER)	33 04 40-D135

REVISIONS

NO.	DESCRIPTION	DATE
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HALFF
 TBPE FIRM #F-312
 3803 PARKWOOD BLVD., STE 800
 FRISCO, TEXAS 75034-8840
 (214) 217-6664



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 FORT WORTH WATER DEPT.-FIELD OPERATIONS WATER (817) 925-2360
 FORT WORTH WATER DEPT.-FIELD OPERATIONS SANITARY SEWER (817) 223-7438
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 FORT WORTH T&PW (817) 871-8100
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HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97

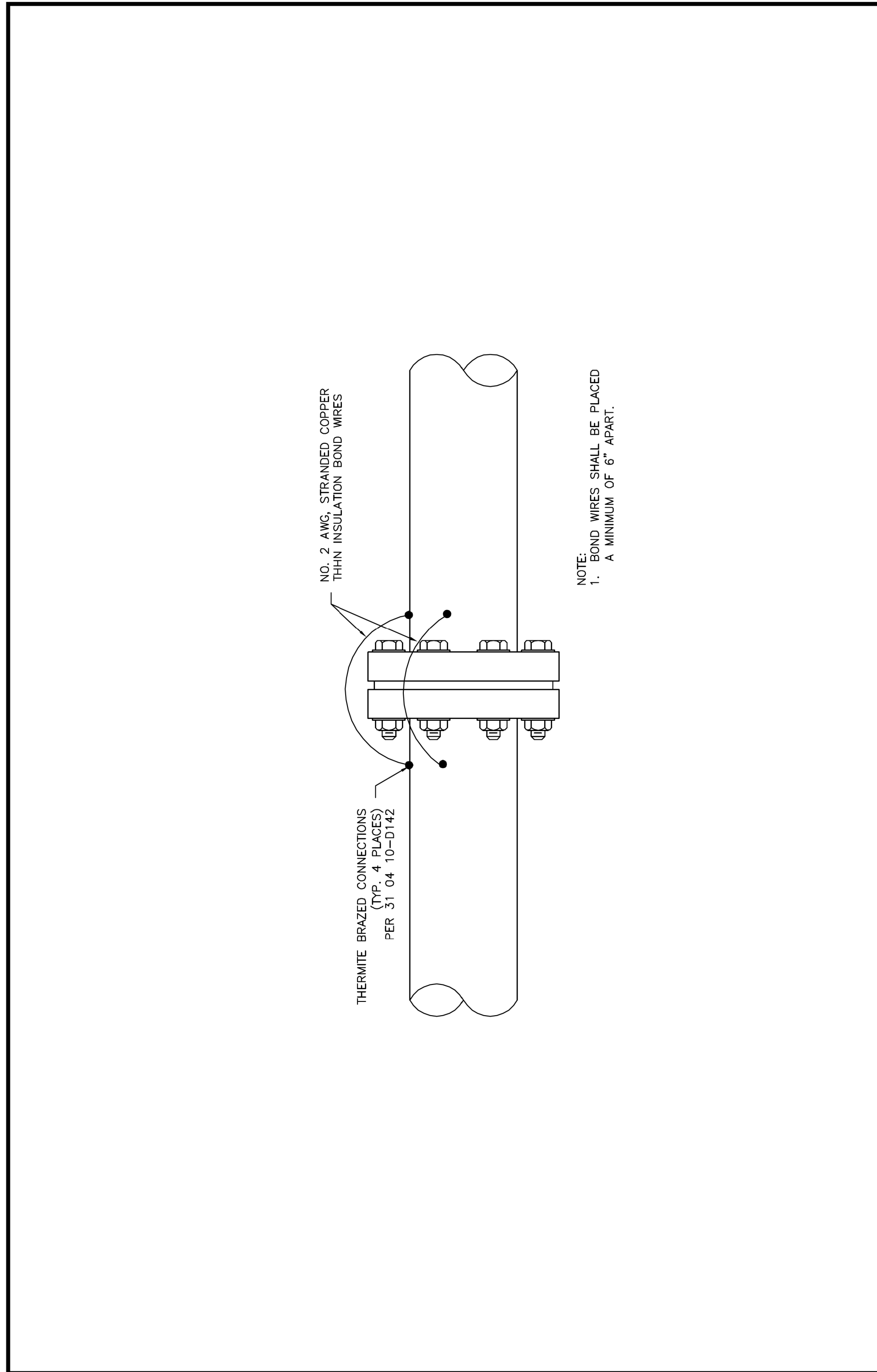
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

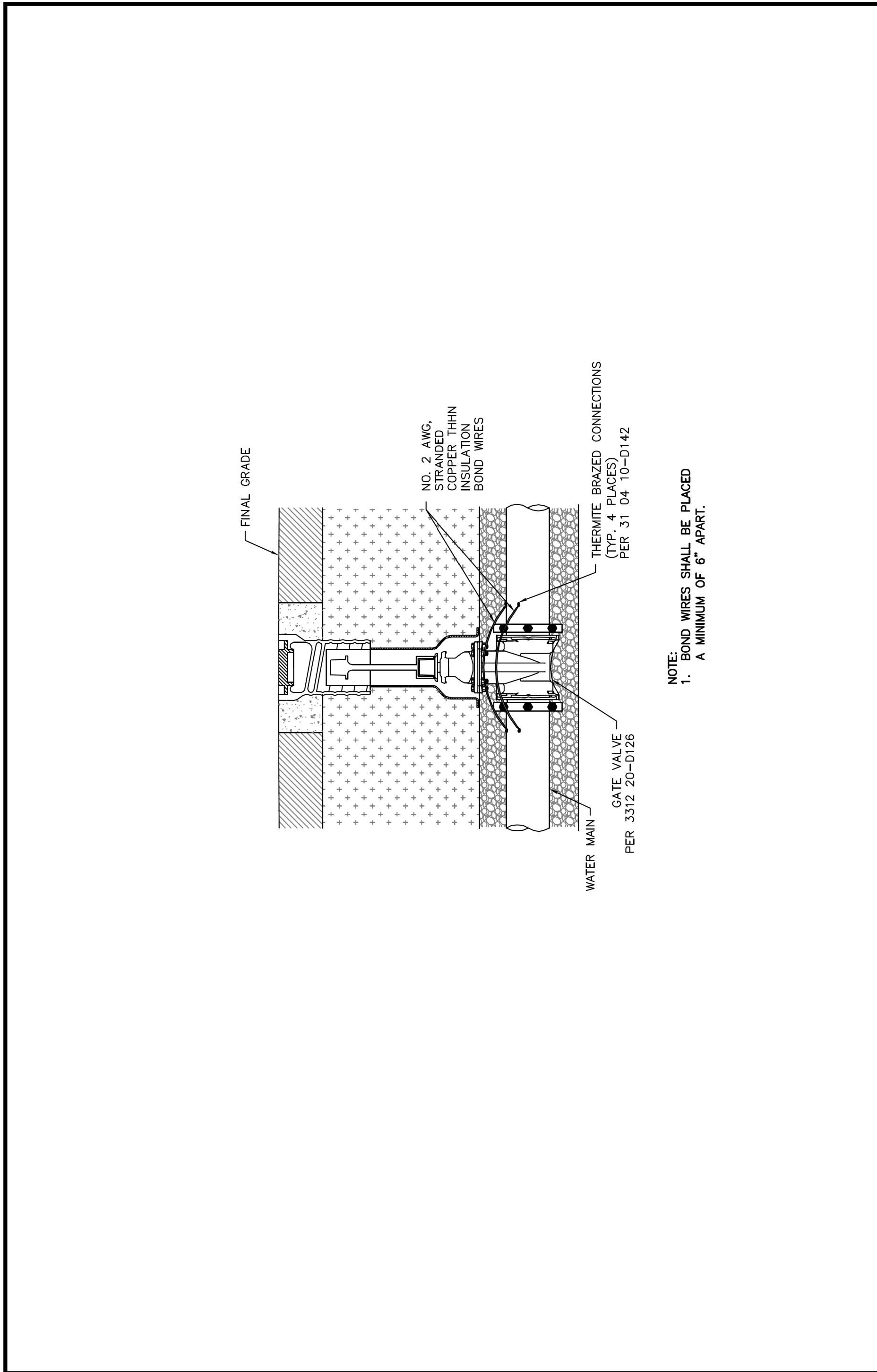
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
WATER & SANITARY SEWER
 DETAILS (SHEET 8 OF 16)

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 35 OF 189
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CITY OF FORT WORTH, TEXAS
ELECTRICAL BONDING
ACROSS FLANGE

REVISED: 08-31-2012
33 04 10-D140



CITY OF FORT WORTH, TEXAS
ELECTRICAL BONDING
ACROSS VALVE

REVISED: 08-31-2012
33 04 10-D141

REVISIONS

NO.	DESCRIPTION	DATE
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TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
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SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
MAP NO. XXXX-XXX

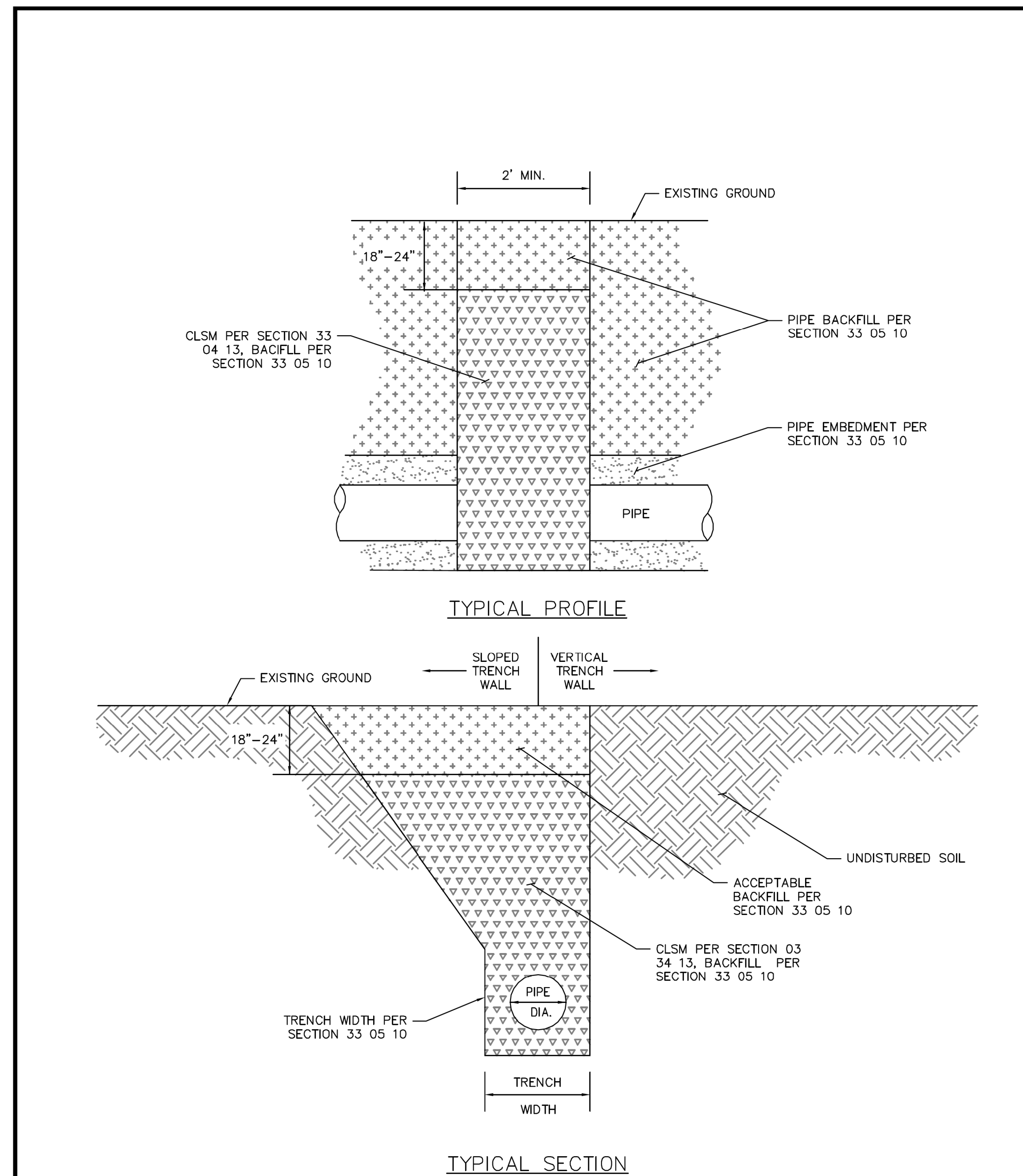
CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT
SERVICES

TRANSPORTATION PROGRAMMING &
INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
WATER & SANITARY SEWER
DETAILS (SHEET 9 OF 16)

DESIGNED: TMW	SCALE:	DATE:	SHEET
DRAWN: PTS	N.T.S.	06/08/2021	36 OF 189

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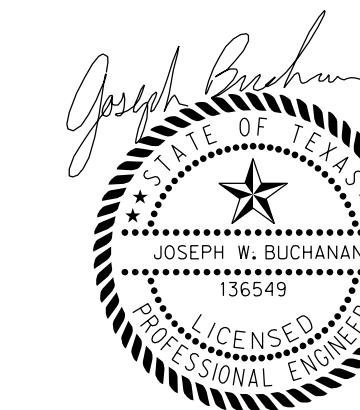


CITY OF FORT WORTH, TEXAS
TRENCH WATER STOP

REVISED: 08-31-2012
33 05 10-D006

REVISIONS

NO.	DESCRIPTION	DATE
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 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

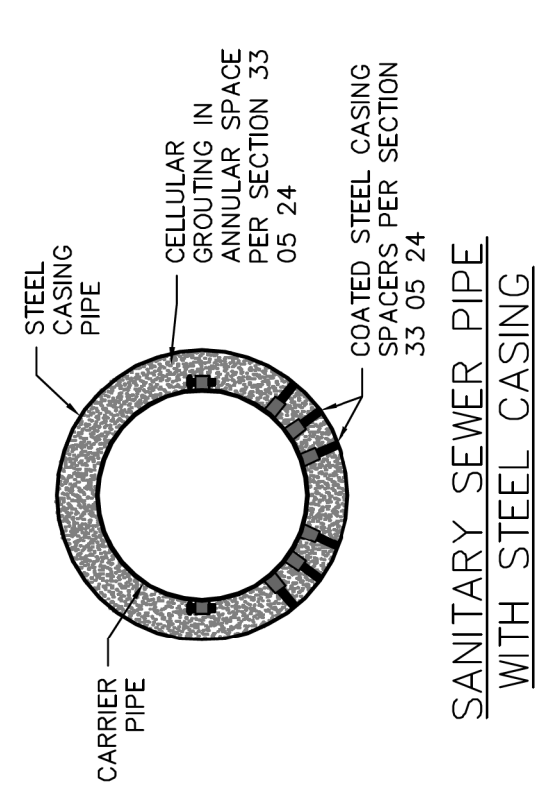
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
WATER & SANITARY SEWER
DETAILS (SHEET 10 OF 16)

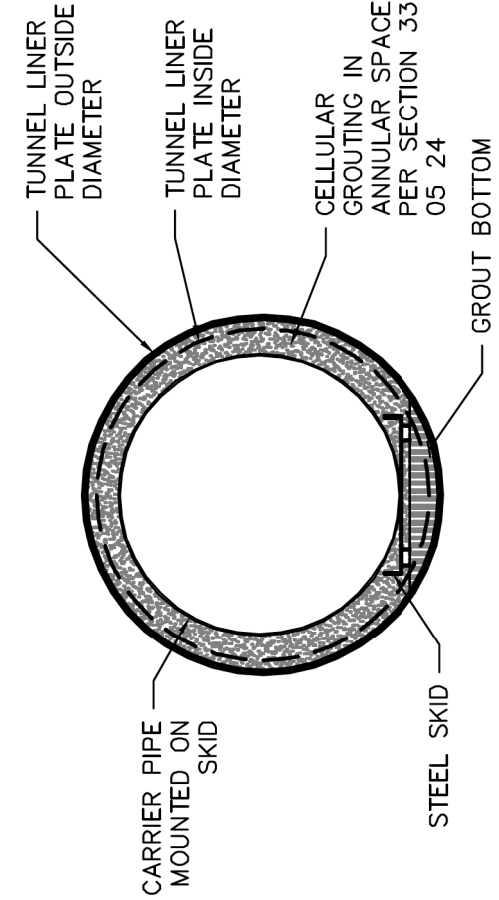
DESIGNED: TMW	SCALE:	DATE:	SHEET
DRAWN: PTS	N.T.S.	06/08/2021	37 OF 189

CASING PIPE SCHEDULE						
NOMINAL CARRIER PIPE SIZE	SDR 26 PVC PIPE BELL OD	MIN. CASING DI	PIPE BELL OD	MIN. CASING STEEL ID	FIBERGLASS COUPLING OD	MIN. CASING STEEL ID
8"	9.692"	16"	11.16"	16"	—	—
10"	12.116"	20"	13.25"	20"	—	—
12"	14.424"	20"	15.22"	20"	—	—
15"	17.652"	24"	—	—	—	—
16"	—	—	19.86"	24"	—	—
18"	—	—	22.16"	30"	21.3"	30"
20"	—	—	24.28"	30"	23.4"	30"
21"	—	—	—	—	—	—
24"	—	—	28.50"	36"	27.6"	36"
27"	—	—	—	—	—	—
30"	—	—	34.95"	42"	33.9"	42"
36"	—	—	41.37"	48"	40.2"	48"
42"	—	—	48.27"	54"	46.5"	54"
48"	—	—	—	—	—	—
54"	—	—	—	—	—	—
60"	—	—	—	—	—	—
66"	—	—	—	—	—	—
72"	—	—	—	—	—	—
78"	—	—	—	—	—	—
84"	—	—	—	—	—	—
90"	—	—	—	—	—	—
96"	—	—	—	—	—	—

TUNNEL LINER PLATE SCHEDULE		
NOMINAL CARRIER PIPE SIZE	DI PIPE BELL OD	SS FIBERGLASS PIPE COUPLING NOMINAL TLP Ø
18"	22.16"	21.3"
20"	24.28"	23.4"
21"	—	—
24"	28.50"	27.6"
27"	—	—
30"	34.95"	33.9"
36"	41.37"	40.2"
42"	48.27"	46.5"
48"	—	—
54"	—	—
60"	—	—
66"	—	—
72"	—	—
78"	—	—
84"	—	—
90"	—	—
96"	—	—



SANITARY SEWER PIPE WITH STEEL CASING

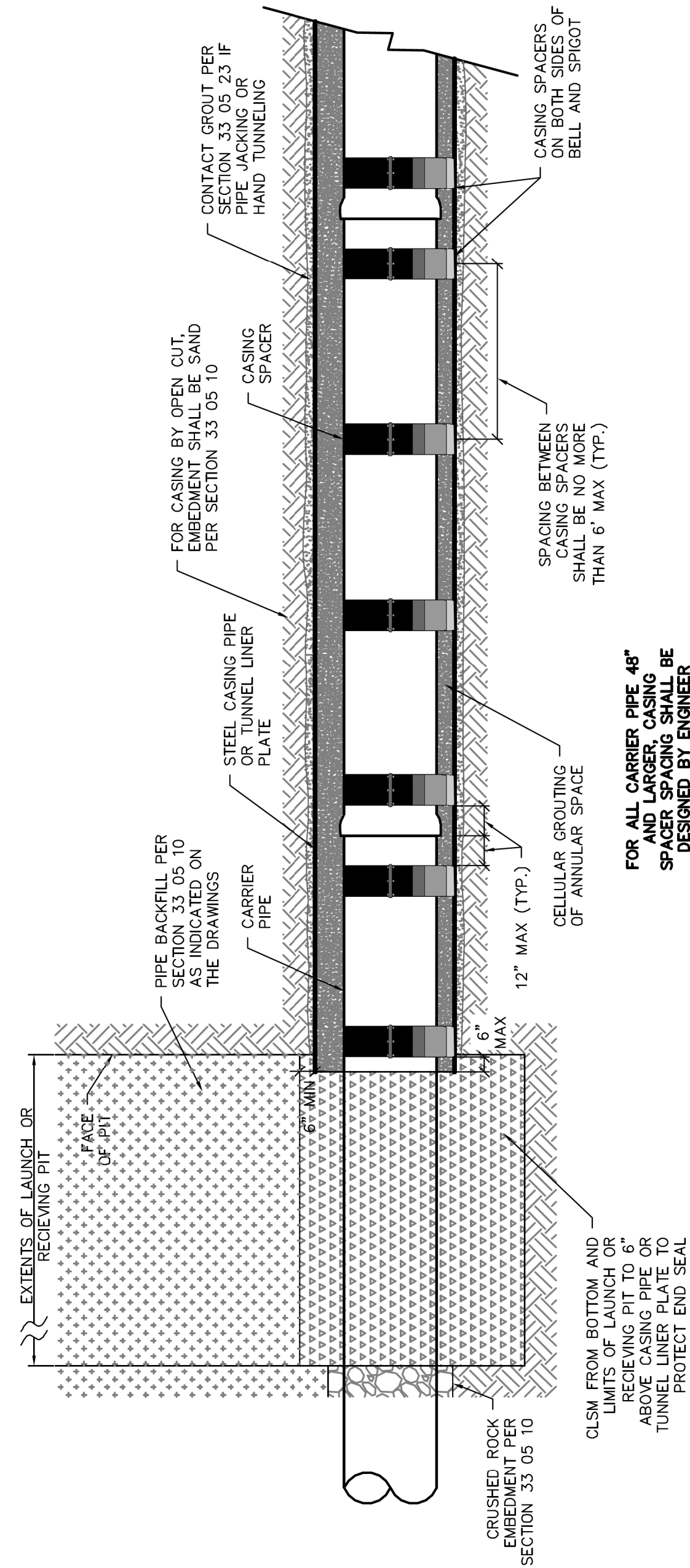


SANITARY SEWER PIPE 36" AND LARGER WITH TUNNEL LINER PLATE

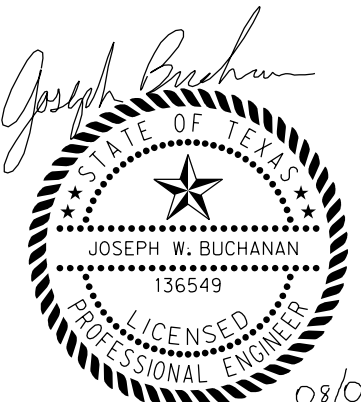
- NOTE: SEWER CARRIER PIPE SHALL BE CENTERED IN CASING PIPE OR TUNNEL LINER PLATE, BUT VARIATIONS MAY BE ALLOWED TO MEET PROPOSED GRADE ON DRAWINGS.
2. CASING AND TUNNEL LINER PLATE DIAMETERS SHOWN ARE TO MEET MINIMUM INSTALLATION REQUIREMENTS. LARGER DIAMETERS SHALL GOVERN. CASING SIZES MAY BE INCREASED TO ALLOW FOR CASING INSTALLATION TOLERANCE VARIABILITY.



CITY OF FORT WORTH, TEXAS
SANITARY SEWER CARRIER PIPE INSTALLATION IN STEEL CASING AND TUNNEL LINER PLATE
 REVISED: 05-14-2013
33 05 24-D203



CITY OF FORT WORTH, TEXAS
SANITARY SEWER PIPE IN STEEL CASING & TUNNEL LINER PLATE PROFILE
 REVISED: 08-31-2012
33 05 24-D204



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CONSTRUCTION NOTES

- NOTE: ALL DIMENSIONS AND STATION/OFFSETS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED ON PLANS.
- NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING TREES, FENCES, RETAINING WALLS AND STRUCTURES UNLESS OTHERWISE NOTED.
- NOTE: CONTRACTOR SHALL RELOCATE EXISTING FENCES AS NOTED TO ONE FEET OF PROPOSED RIGHT OF WAY.
- THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATING AT EACH LOCATION:
 AT&T 1-800-878-8711
 FORT WORTH WATER DEPT.-FIELD OPERATIONS WATER (817) 925-2360
 FORT WORTH WATER DEPT.-FIELD OPERATIONS SANITARY SEWER (817) 223-7438
 FORT WORTH WATER DEPT.-FIELD OPERATIONS LOCATE (817) 392-6296
 FORT WORTH T&PW (817) 871-8100
 ATMOS ENERGY (817) 215-4366
 ONCOR GAS & ELECTRIC (817) 215-6214
 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

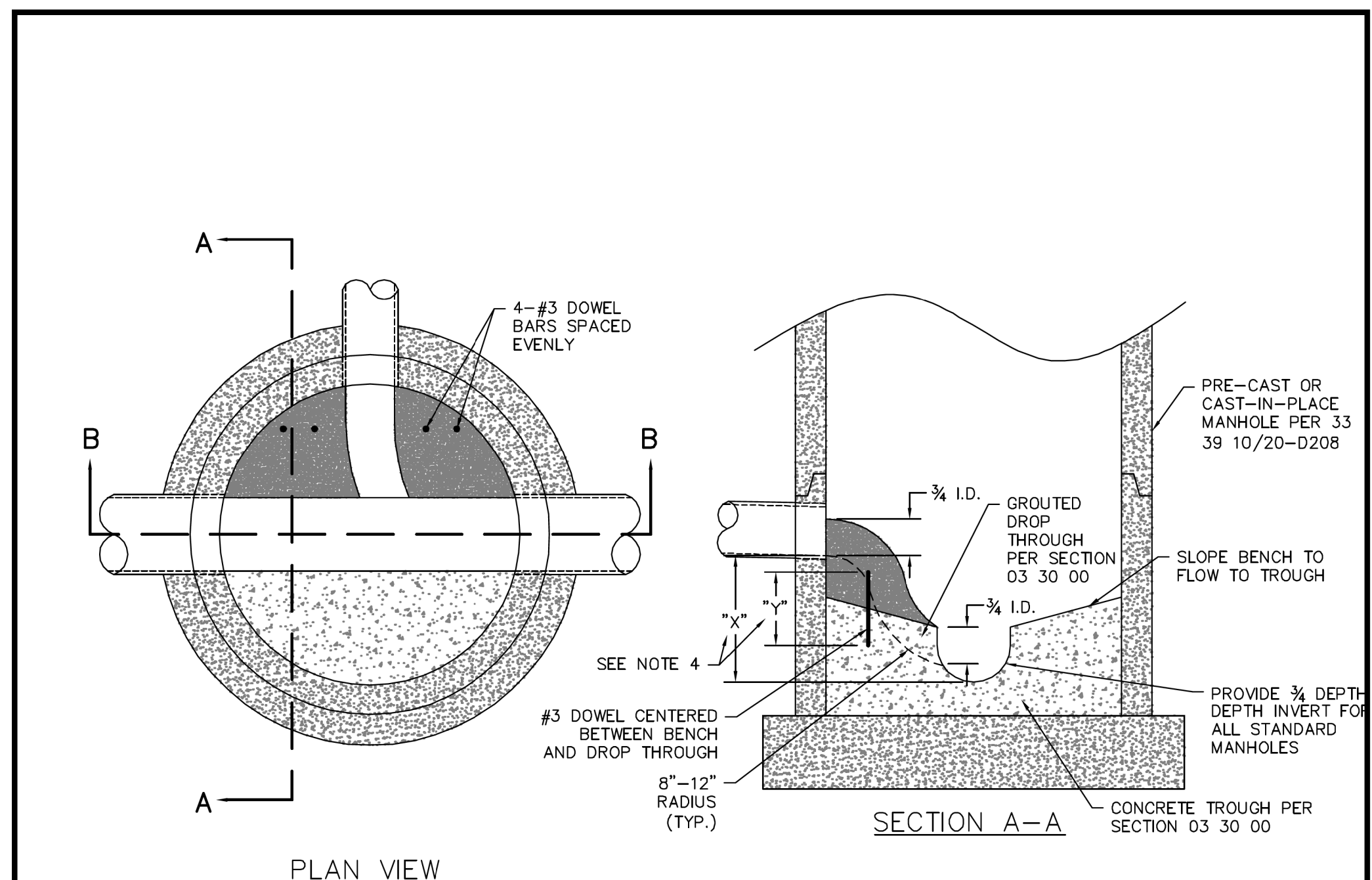
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

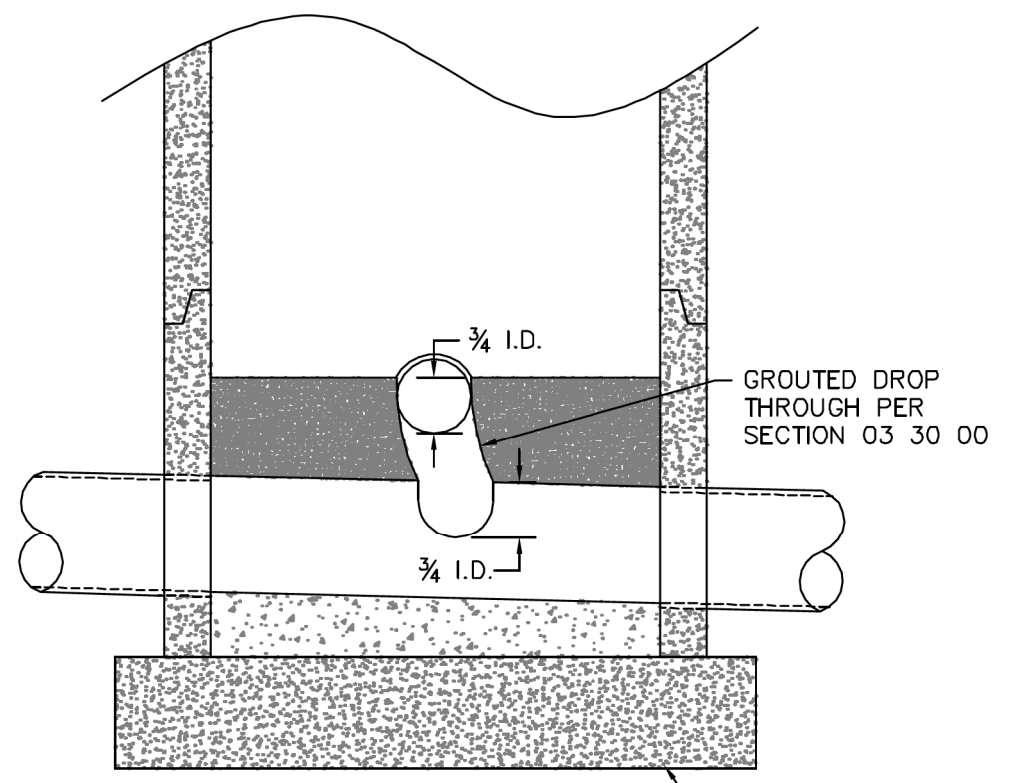
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
WATER & SANITARY SEWER
 DETAILS (SHEET 11 OF 16)

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 38 OF 189
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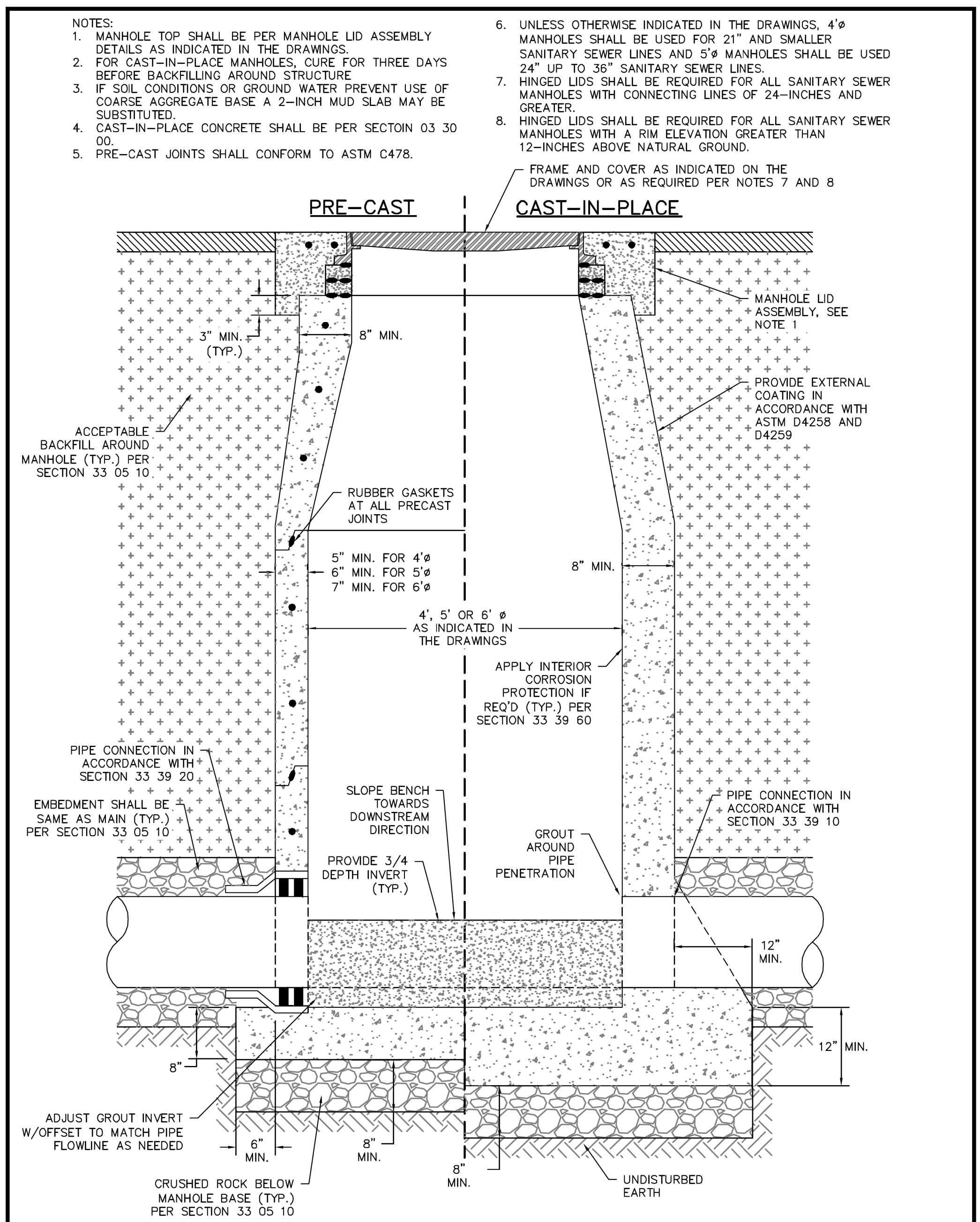
PLAN VIEW



SECTION B-B

- NOTES:
1. DROP THROUGH SHALL BE POURED MONOLITHICALLY WITH CAST-IN-PLACE BENCH, OR DOWELED AND GROUTED TO PRE-CAST BENCH.
 2. DROP THROUGH SHALL EXTEND INTO MAIN-LINE THROUGH 1/2 THE INNER DIAMETER OF LATERAL WHERE LATERAL FLOW-LINE TO MAIN FLOW-LINE IS GREATER THAN 24" AN EXTERNAL DROP SHALL BE REQUIRED PER 33 39 10/20-D209
 3. "X" SHALL BE NO MORE THAN 24" FROM FLOW-LINE TO FLOW-LINE. "Y" SHALL BE THE GREATER OF HALF OF "X" OR 6".

	CITY OF FORT WORTH, TEXAS	REVISED: 08-31-2012
	HYDRAULIC SLIDE	33 39 10/20-D207



	CITY OF FORT WORTH, TEXAS	REVISED: 06-19-2013
	STANDARD MANHOLE	33 39 10/20-D208

REVISIONS

NO.	DESCRIPTION	DATE
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CONSTRUCTION NOTES

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 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

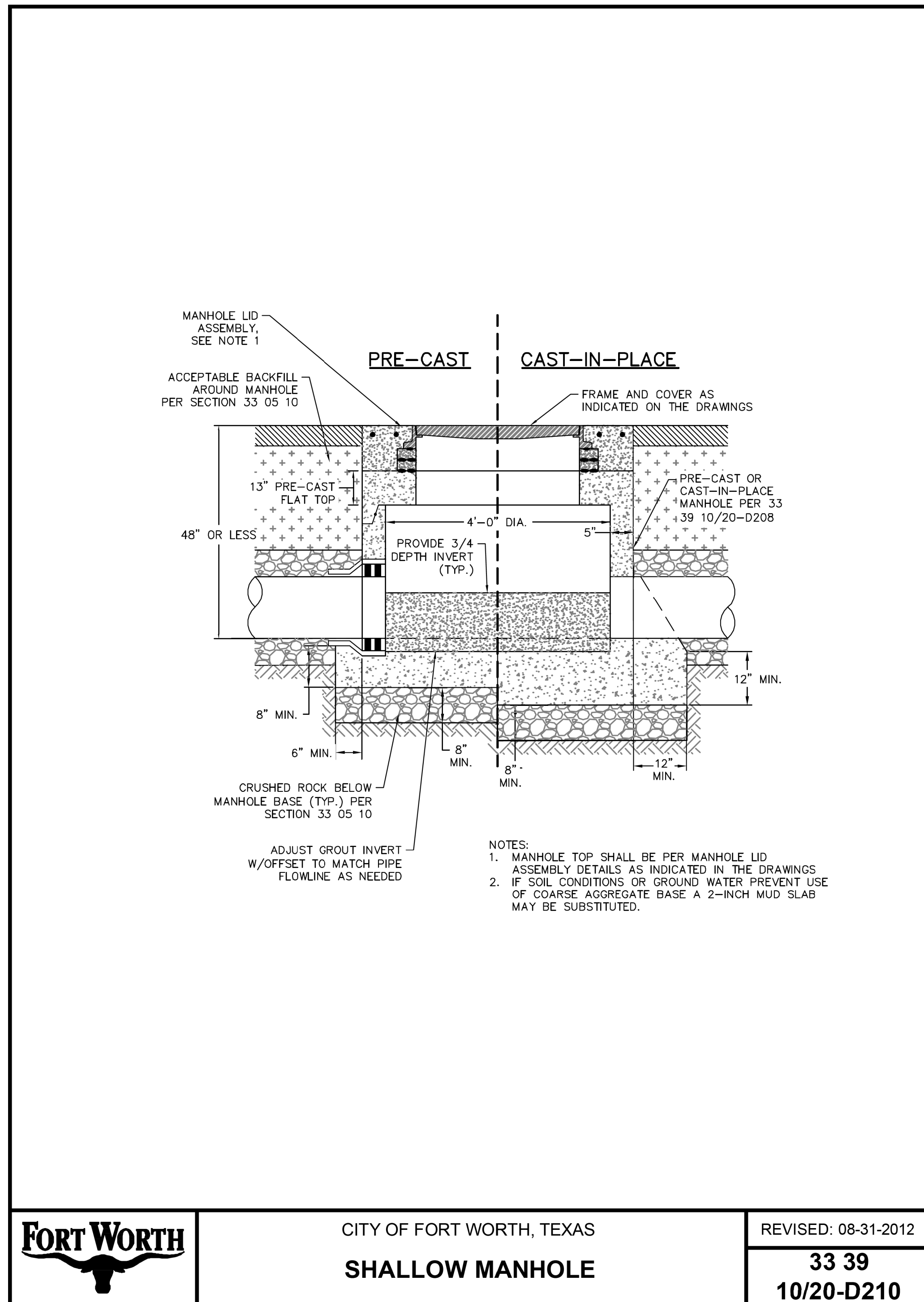
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DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO.
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
 EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
WATER & SANITARY SEWER
 DETAILS (SHEET 12 OF 16)

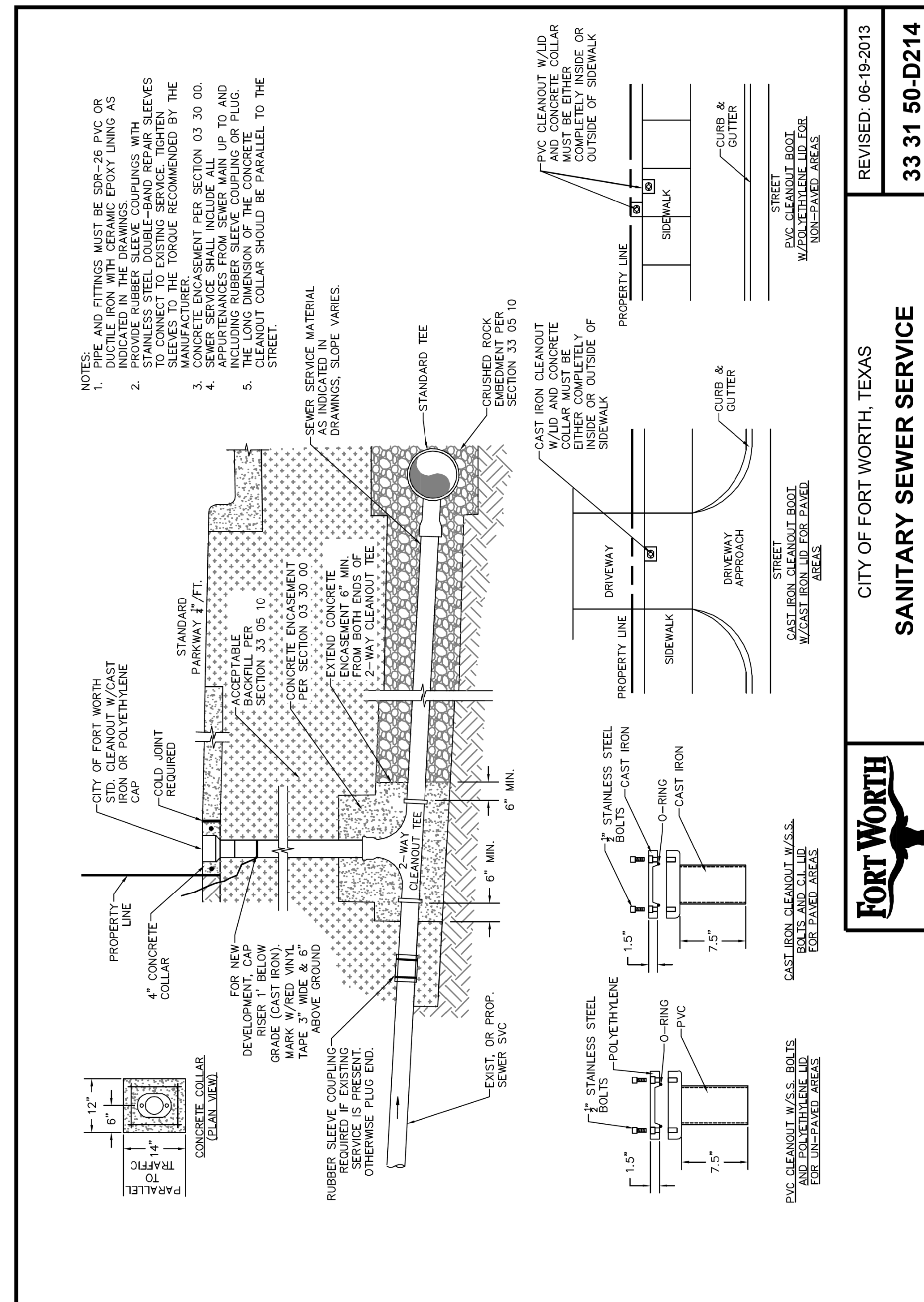
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CITY OF FORT WORTH, TEXAS
SHALLOW MANHOLE

REVISED: 08-31-2012
33 39
10/20-D210



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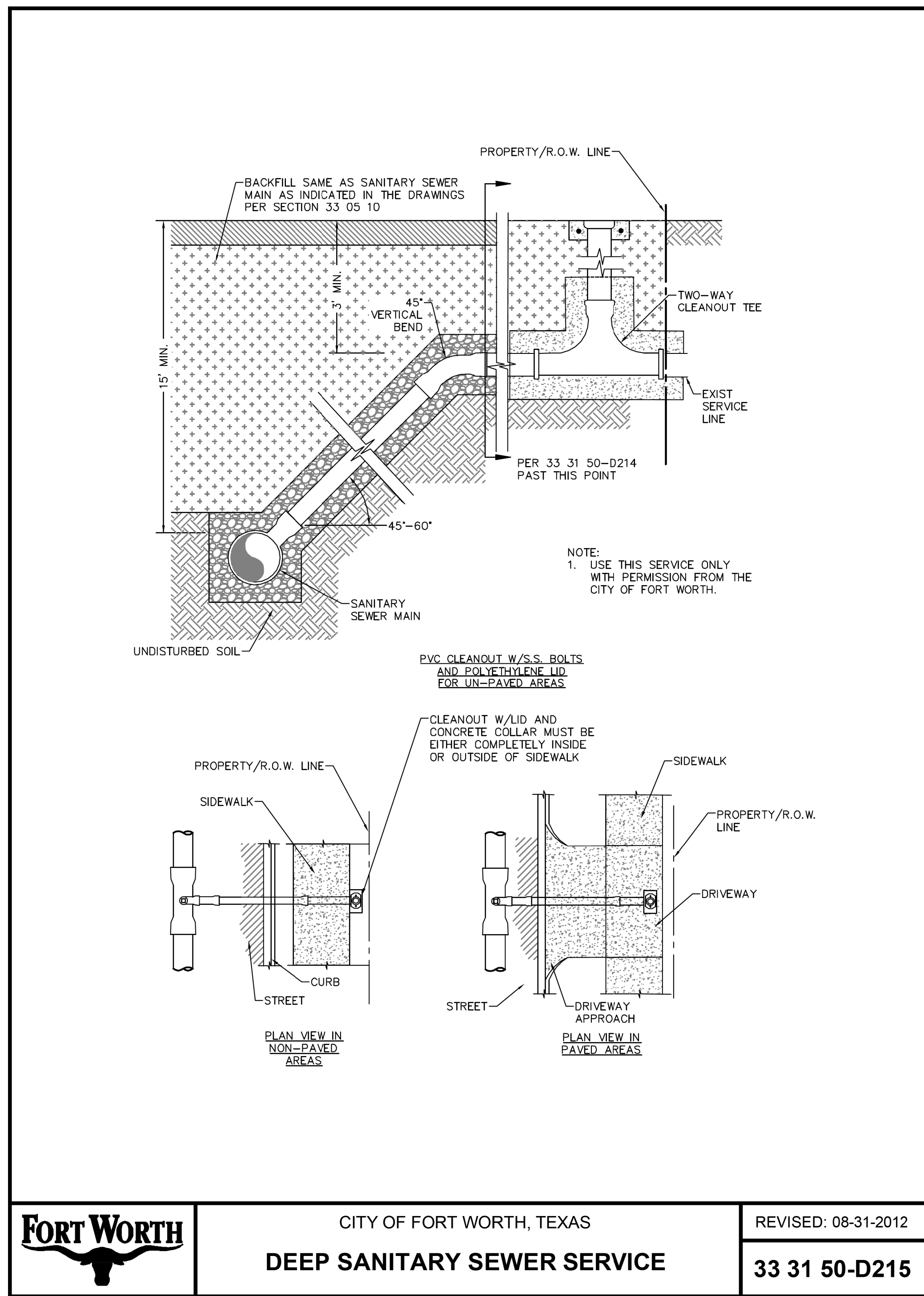
DOE # K-2840
CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
WATER & SANITARY SEWER
DETAILS (SHEET 13 OF 16)

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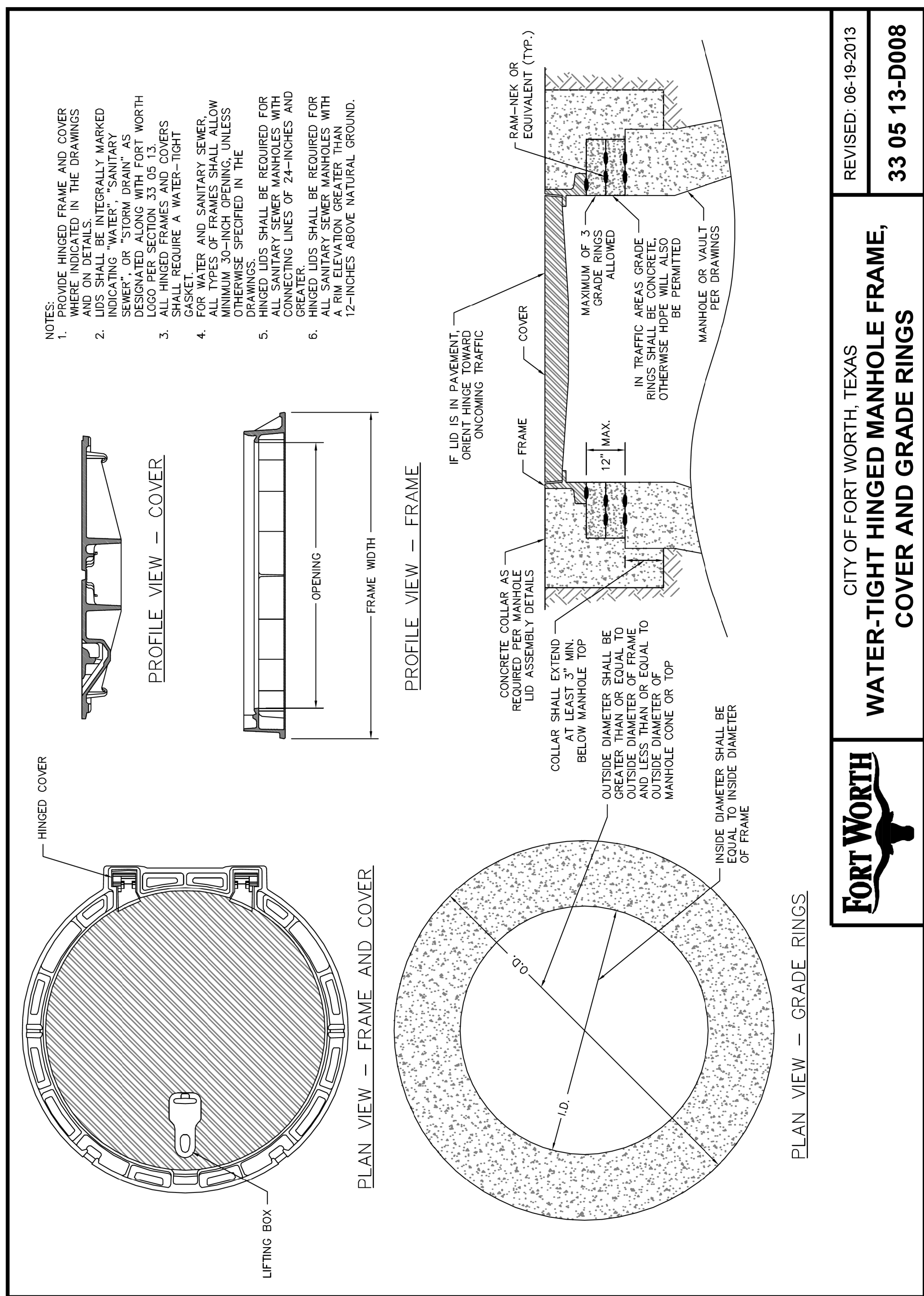
FORT WORTH

CITY OF FORT WORTH, TEXAS

DEEP SANITARY SEWER SERVICE

REVISED: 08-31-2012

33 31 50-D215



REVISIONS		
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CHARTER COMM. (817) 509-6272 EXT. 3363
ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

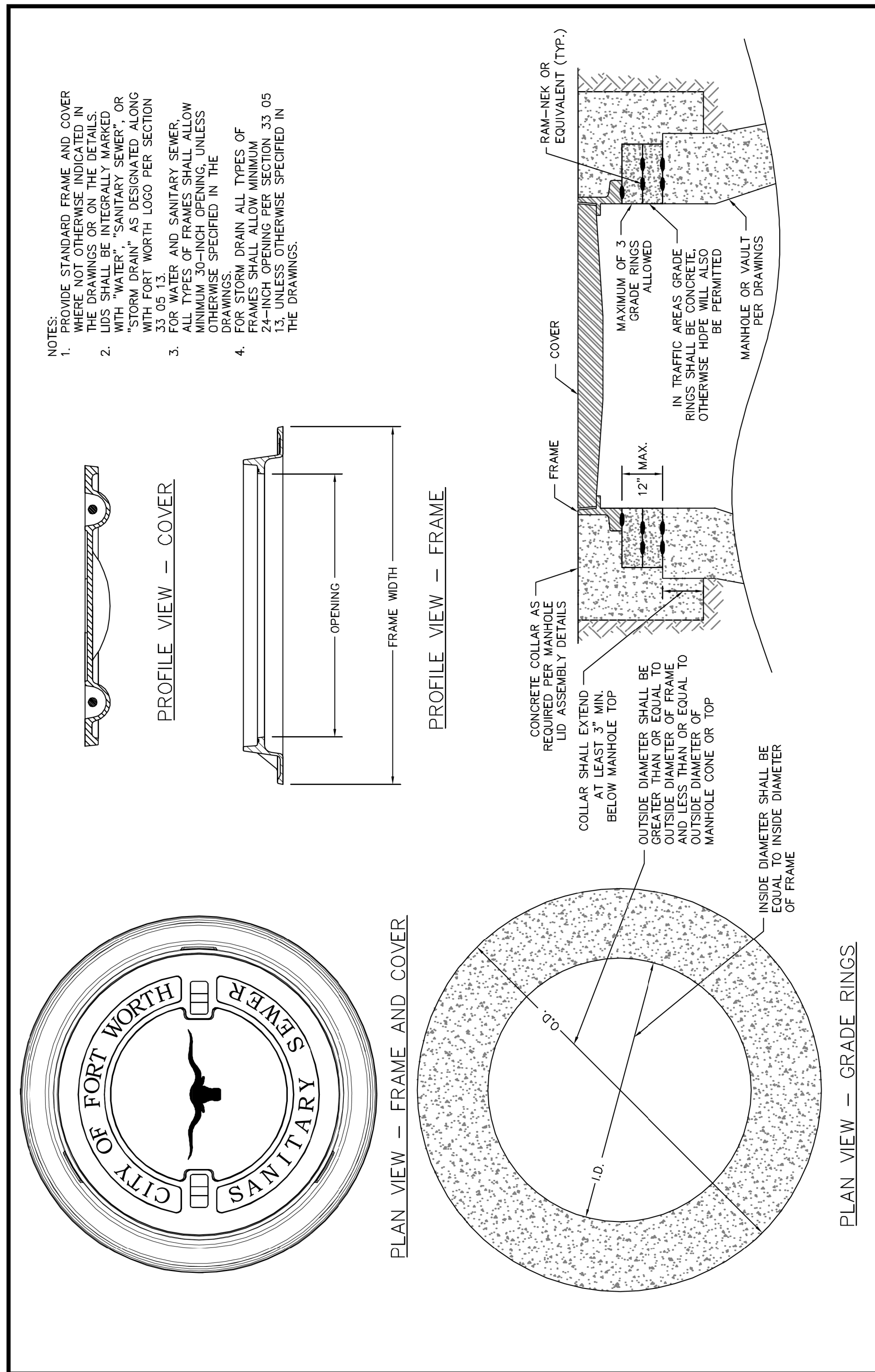
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DOE #	K-2840
CITY PROJECT # 103320	MAPSCO NO. 119E AND 119F
TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX	
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX	
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX	
MAP NO. XXXX-XXX	

CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
WATER & SANITARY SEWER
DETAILS (SHEET 14 OF 16)

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 41 OF 189
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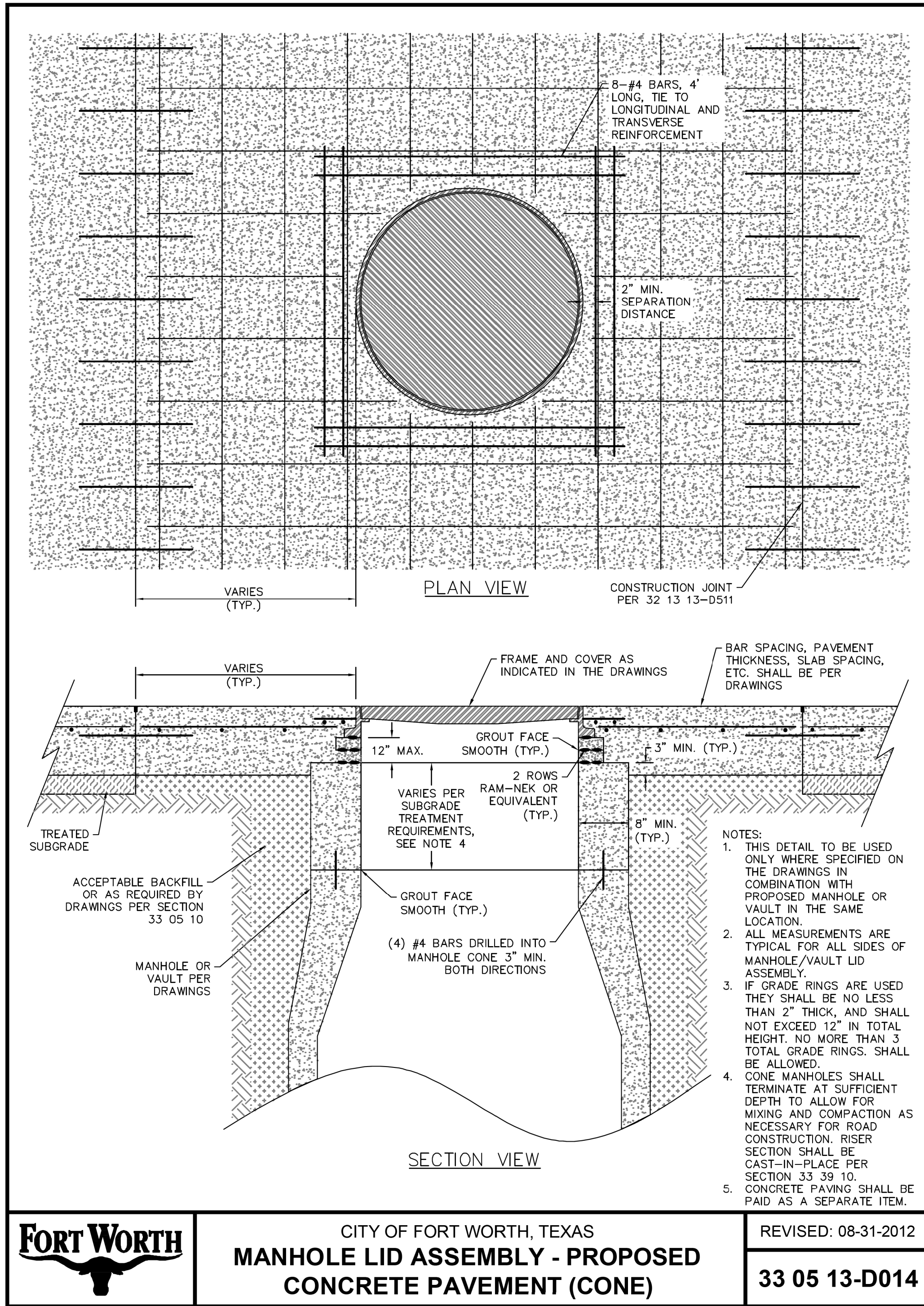
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CITY OF FORT WORTH, TEXAS
MANHOLE FRAME, COVER AND GRADE RINGS

REVISED: 10-16-2012
33 05 13-D009

FORT WORTH



FORT WORTH

CITY OF FORT WORTH, TEXAS
MANHOLE LID ASSEMBLY - PROPOSED CONCRETE PAVEMENT (CONE)

REVISED: 08-31-2012
33 05 13-D014

REVISIONS		
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HORIZONTAL & VERTICAL CONTROL		
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DOE # CITY PROJECT # 103320 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX MAP NO. XXXX-XXX		K-2840 MAPSCO NO. 119E AND 119F

CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
WATER & SANITARY SEWER
DETAILS (SHEET 15 OF 16)

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DOE # K-2840
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 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

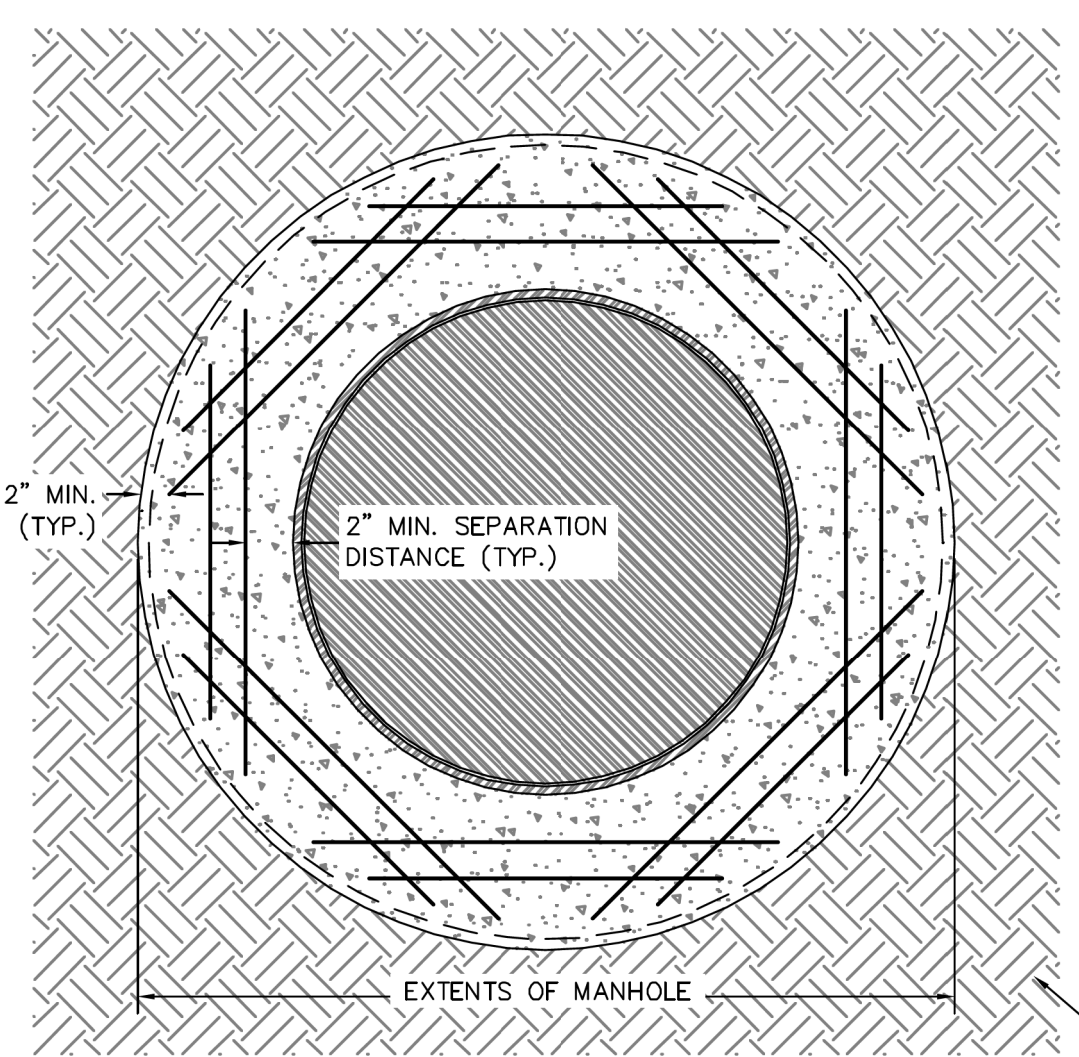
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
WATER & SANITARY SEWER
 DETAILS (SHEET 16 OF 16)

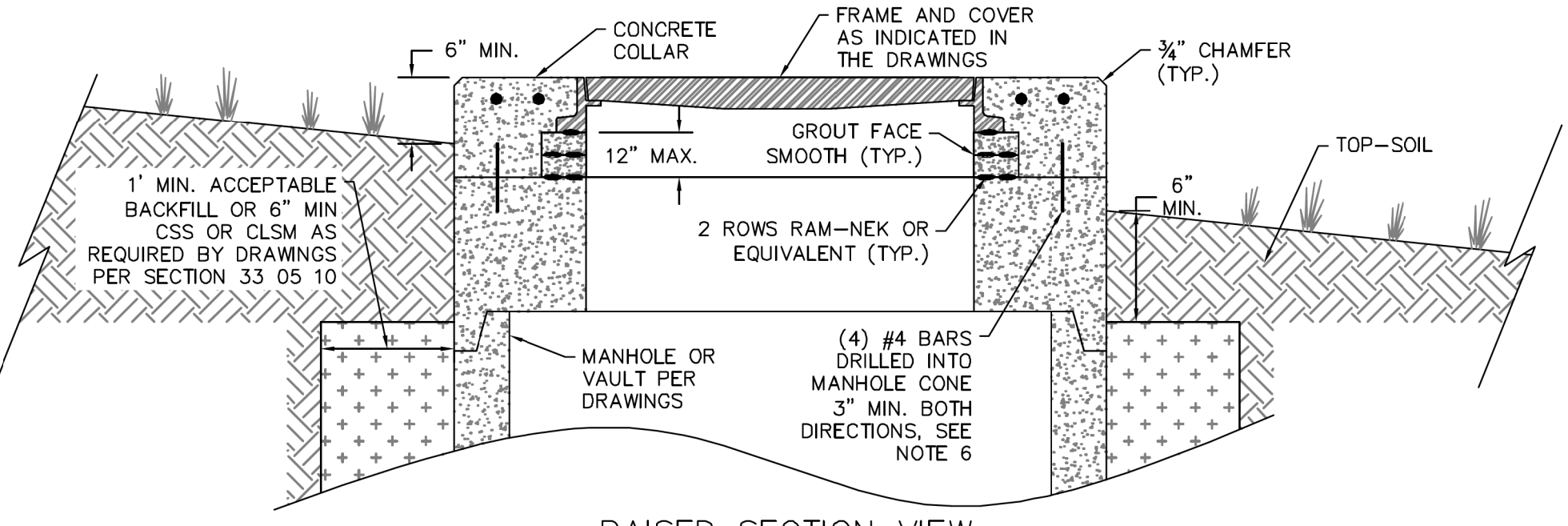
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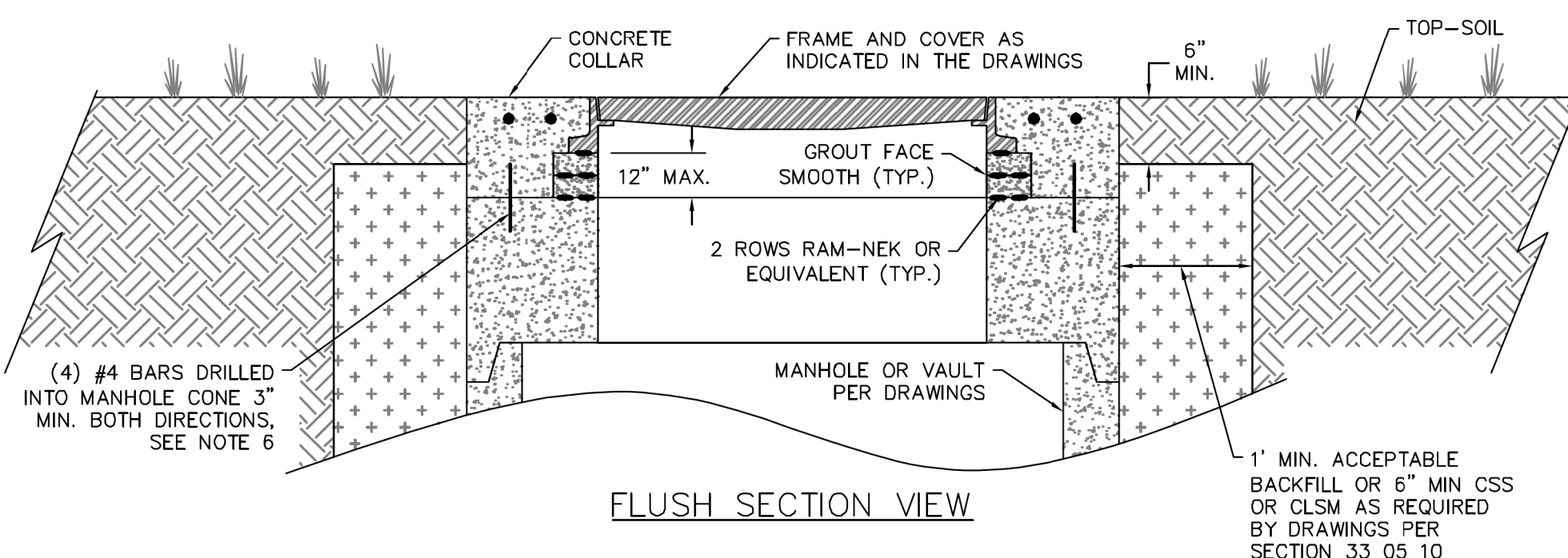


PLAN VIEW

- NOTES:
- THIS DETAIL TO BE USED ONLY WHERE SPECIFIED ON THE DRAWINGS IN COMBINATION WITH PROPOSED MANHOLE OR VAULT IN THE SAME LOCATION.
 - ONLY FLAT TOP MANHOLES SHALL BE ALLOWED FOR UNIMPROVED SURFACES. CONE MANHOLES WILL NOT BE ALLOWED.
 - IF GRADE RINGS ARE USED THEY SHALL BE NO LESS THAN 2" THICK, AND SHALL NOT EXCEED 12" IN TOTAL HEIGHT. NO MORE THAN 3 TOTAL GRADE RINGS SHALL BE ALLOWED. ALL MEASUREMENTS ARE TYPICAL FOR ALL SIDES OF MANHOLE/VAULT LID ASSEMBLY.
 - MANHOLE FLAT TOP SHALL EXTEND 6" MIN. ABOVE HIGHEST ADJACENT UNIMPROVED SURFACE WHEN RAISED MANHOLE IS INDICATED IN THE DRAWINGS.
 - PROVIDE REINFORCEMENT TYING COLLAR TO MANHOLE.
 - WHERE POSSIBLE, RING AND FRAME MAY BE INTEGRALLY CAST INTO FLAT TOP, PROVIDED ALL OTHER SPACING REQUIREMENTS ARE MET.
 - WHEN USED, CONCRETE COLLARS SHALL BE POURED TO EXTENTS OF CONCRETE FLAT TOP.
 - MANHOLE SHALL BE RAISED OR FLUSH AS INDICATED ON THE DRAWINGS.



RAISED SECTION VIEW



FLUSH SECTION VIEW



CITY OF FORT WORTH, TEXAS
MANHOLE LID ASSEMBLY - UNIMPROVED SURFACE (FLAT TOP)

REVISED: 08-31-2012

33 05 13-D015

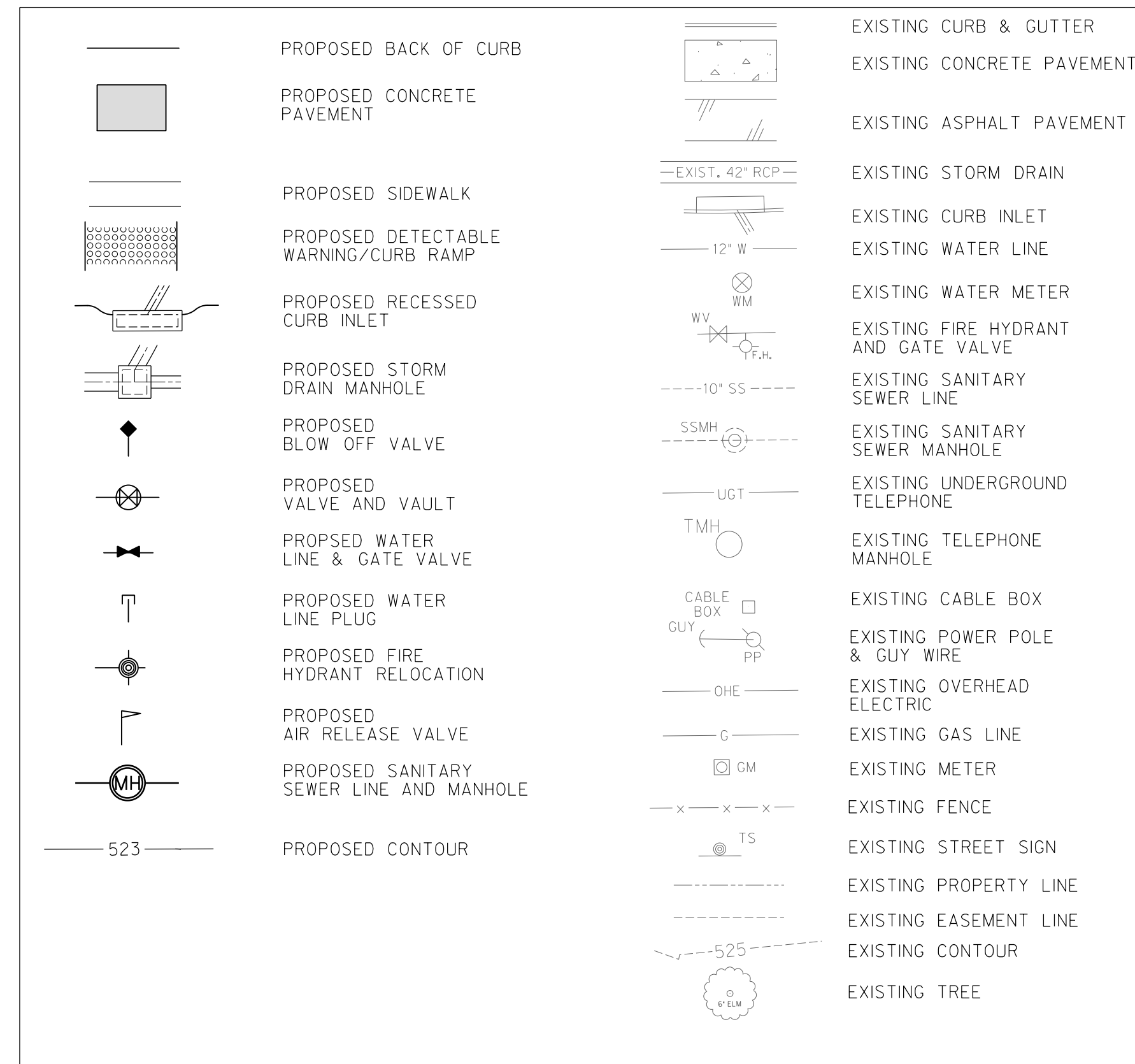
GENERAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, PRIOR TO EXCAVATION. THE INFORMATION AND DATA SHOWN WITH RESPECT TO EXISTING UNDERGROUND FACILITIES AT OR CONTIGUOUS TO THE SITE IS APPROXIMATE AND BASED ON INFORMATION FURNISHED BY THE OWNERS OF SUCH UNDERGROUND FACILITIES OR ON PHYSICAL APPURTENANCES OBSERVED IN THE FIELD. THE CITY AND ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY SUCH INFORMATION OR DATA. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR REVIEWING AND CHECKING ALL SUCH INFORMATION OR DATA, FOR LOCATING ALL UNDERGROUND FACILITIES, FOR COORDINATION OF THE WORK WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES DURING CONSTRUCTION AND FOR THE SAFETY AND PROTECTION THEREOF AND REPAIRING ANY DAMAGE THERETO RESULTING FROM THE WORK. THIS WORK SHALL BE CONSIDERED AS A SUBSIDIARY ITEM OF WORK, THE COST OF WHICH SHALL BE INCLUDED IN THE PRICE BID IN THE PROPOSAL FOR VARIOUS BID ITEMS. THE CONTRACTOR SHALL NOTIFY ANY AFFECTED OWNERS (UTILITY COMPANIES) OR AGENCIES IN WRITING AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
 - NOTIFY TEXAS 811 (1-800-DIG-TESS OR WWW.TEXAS811.ORG) TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 - CAUTION! BURIED ELECTRIC LINES MAY EXIST ALONG THIS PROJECT. CONTACT ELECTRICAL PROVIDERS 48 HOURS PRIOR TO EXCAVATION.
 - CAUTION! BURIED GAS LINES MAY EXIST ALONG THIS PROJECT. CONTACT ATMOS 48 HOURS PRIOR TO EXCAVATION, AND WITHIN TWO (2) HOURS OF ENCOUNTERING A GAS LINE.
 - CAUTION! BURIED COMMUNICATION CABLES MAY EXIST ALONG THIS PROJECT. CONTACT COMMUNICATION COMPANIES 48 HOURS PRIOR TO EXCAVATION.
- CAUTION! WHEN DOING WORK WITHIN 200 FEET OF ANY SIGNALIZED INTERSECTION, THE CONTRACTOR SHALL NOTIFY TRAFFIC MANAGEMENT DIVISION OF CITY OF FORT WORTH T/PW, 72 HOURS PRIOR TO EXCAVATION. THE CONTRACTOR SHALL PROTECT EXISTING SIGNAL HARDWARE, GROUND BOXES, DETECTION LOOPS, AND UNDERGROUND CONDUIT AT SIGNALIZED INTERSECTIONS. ANY DAMAGES AT SIGNALIZED INTERSECTIONS SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR. THE CONTRACTOR SHALL CONTACT THE CITY AT 817-392-8100 TO PERFORM CONDUIT LINE LOCATES AT SIGNALIZED INTERSECTIONS 72 HOURS PRIOR TO COMMENCING WORK AT THE INTERSECTION.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF FORT WORTH PROJECT MANAGER 48 HOURS PRIOR TO THE START OF ANY EXCAVATION (PROJECT MANAGER'S NAME: PATRICK BUCKLEY, 817-392-2443) FOR UTILITY WORK WITHIN UTILITY EASEMENTS, ONCE PIPE OR APPURTENANCES HAVE BEEN INSTALLED OR REHABILITATED, IMMEDIATELY COMMENCE TEMPORARY SURFACE RESTORATION. COMPLETE SURFACE RESTORATION TO THE OWNER'S SATISFACTION WITHIN SEVEN (7) DAYS OF WORK FINISHING ON-SITE. FAILURE TO MAINTAIN SURFACE RESTORATION, AS NOTED ABOVE, MAY RESULT IN SUSPENSION OF WORK UNTIL RESTORATION IS COMPLETE.
- CONTRACTOR'S PERSONNEL SHALL HAVE IDENTIFYING CLOTHING, HATS OR BADGES AT ALL TIMES WHICH IDENTIFY THE CONTRACTOR'S NAME, LOGO OR COMPANY
- PROTECT CONCRETE CURB AND GUTTER, DRIVEWAYS, AND SIDEWALKS THAT ARE NOT DESIGNATED FOR REMOVAL. REMOVAL AND REPLACEMENT OF THESE ITEMS SHALL BE AS DESIGNATED IN THE DRAWINGS.

EXTERIOR IMPROVEMENTS

- AT LOCATIONS WHERE THE CURB AND GUTTER ARE TO BE REPLACED, THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR THE RE-ESTABLISHMENT OF EXISTING STREET AND GUTTER GRADES. ESTABLISHMENT OF GRADES SHALL BE CONSIDERED AS A SUBSIDIARY ITEM OF WORK, THE COST OF WHICH SHALL BE INCLUDED IN THE PRICE BID IN THE PROPOSAL FOR VARIOUS BID ITEMS.
- ALL DRIVEWAYS, WHICH ARE OPEN CUT, SHALL HAVE AT LEAST A TEMPORARY DRIVING SURFACE AT THE END OF EACH DAY. THE TEMPORARY SURFACE SHALL BE CONSIDERED AS A SUBSIDIARY ITEM OF WORK. THE COST OF WHICH SHALL BE INCLUDED IN THE PRICE BID IN THE PROPOSAL FOR VARIOUS BID ITEMS
- THE CURB RAMP STANDARD DETAILS ARE INTENDED TO SHOW TYPICAL LAYOUTS FOR THE CONSTRUCTION OF THE CURB RAMPS. THE INFORMATION SHOWN ON THE STANDARD DETAILS MEET THE REQUIREMENTS SHOWN IN THE "2012 TEXAS ACCESSIBILITY STANDARDS" (TAS) AND THE "2010 ADA STANDARDS FOR ACCESSIBLE DESIGN" BY THE DEPARTMENT OF JUSTICE.
- CITY OF FORT WORTH STANDARD DETAILS ARE ONLY INTENDED TO INDICATE PAY LIMITS FOR EACH TYPE OF RAMP. THE ENGINEER IS RESPONSIBLE FOR THE DEVELOPMENT AND DESIGN OF THE SIDEWALK AND CURB RAMP LAYOUT, INCLUDING ACTUAL DIMENSIONS AND SLOPE PERCENTAGES.
- THE CONTRACTOR MAY NOT MAKE CHANGES TO THE SIDEWALK AND CURB RAMP LAYOUT WITHOUT APPROVAL OF THE CITY. THE CONTRACTOR MAY PROPOSE CHANGES TO THE SIDEWALK AND CURB RAMP LAYOUT DUE TO FIELD CONDITIONS, BUT ANY PROPOSED CHANGES MUST BE APPROVED BY THE CITY.
- CURB RAMP RUNNING SLOPES SHALL NOT BE STEEPER THAN 8.3% (12:1). ADJUST CURB RAMP LENGTH OR GRADE OF APPROACH SIDEWALKS AS DIRECTED BY THE CITY.
- CURB RAMP FLARE SLOPES SHALL NOT BE STEEPER THAN 10% (10:1) AS MEASURED ALONG BACK OF CURB.
- MAXIMUM ALLOWABLE CROSS SLOPE ON SIDEWALK AND CURB RAMP SURFACES IS 2%
- THE MINIMUM WIDTH OF SIDEWALKS AND CURB RAMPS SHALL BE 4 FEET
- LANDINGS SHALL BE PROVIDED AT THE TOP OF CURB RAMPS. THE LANDING CLEAR LENGTH SHALL BE 5 FEET MINIMUM FROM THE END OF RAMP. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE CURB RAMP, EXCLUDING FLARES. THE LANDING SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.
- IN ALTERATIONS WHERE THERE IS NO LANDING AT THE TOP OF THE CURB RAMP, CURB RAMP FLARES SHALL BE PROVIDED AND SHALL NOT BE STEEPER THAN 8.3% (12:1).
- WHERE TURNING IS REQUIRED, MANEUVERING SPACE AT THE TOP AND BOTTOM OF CURB RAMPS SHALL BE 5 FEET BY 5 FEET MINIMUM. THE SPACE AT THE BOTTOM SHALL BE WHOLLY CONTAINED WITHIN THE CROSSWALK MARKINGS AND SHALL NOT PROJECT INTO VEHICULAR TRAFFIC LANES.
- CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NORMALLY WALK ACROSS THE RAMP, EITHER BECAUSE THE ADJACENT SURFACE IS PLANTING OR OTHER NON-WALKING SURFACE OR BECAUSE THE SIDE APPROACH IS SUBSTANTIALLY OBSTRUCTED.
- WHERE CURB RAMPS ARE PROVIDED, CROSSWALK MARKINGS SHALL BE REQUIRED AND RAMPS SHALL BE ALIGNED WITH THE CROSSWALK.
- COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE CURB RAMP SHALL NOT BE STEEPER THAN 5% (20:1) IN ANY DIRECTION.

LEGEND



UTILITIES

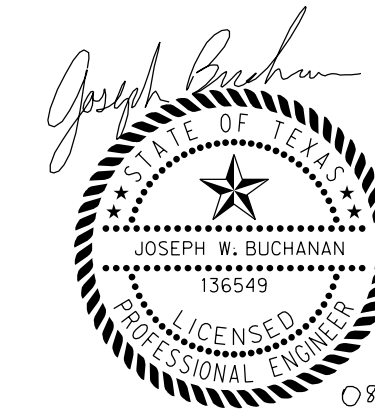
- FOR UTILITY WORK WITHIN UTILITY EASEMENTS, ONCE PIPE OR APPURTENANCES HAVE BEEN INSTALLED OR REHABILITATED, IMMEDIATELY COMMENCE TEMPORARY SURFACE RESTORATION. COMPLETE SURFACE RESTORATION TO THE OWNER'S SATISFACTION WITHIN SEVEN (7) DAYS OF WORK FINISHING ON-SITE. FAILURE TO MAINTAIN SURFACE RESTORATION, AS NOTED ABOVE, MAY RESULT IN SUSPENSION OF WORK UNTIL RESTORATION IS COMPLETE
- EXISTING VERTICAL DEFLECTIONS AND PIPE SLOPES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND HAVE NOT BEEN FIELD VERIFIED, UNLESS OTHERWISE NOTED. RIM ELEVATIONS, FLOW LINES, AND HORIZONTAL LOCATIONS OF EXISTING MANHOLES WERE DETERMINED FROM FIELD SURVEY. IF FIELD CONDITIONS VARY FROM THOSE SHOWN ON DRAWINGS CONTRACTOR SHALL NOTIFY CITY.
- MAINTAIN ALL EXISTING WATER AND SEWER CONNECTIONS TO CUSTOMERS IN WORKING ORDER AT ALL TIMES, EXCEPT FOR BRIEF INTERRUPTIONS IN SERVICE FOR WATER AND SEWER SERVICES TO BE REINSTATED. IN NO CASE SHALL SERVICES BE ALLOWED TO REMAIN OUT OF SERVICE OVERNIGHT.
- ESTABLISH AND MAINTAIN A TRENCH SAFETY SYSTEM IN ACCORDANCE WITH THE EXCAVATION SAFETY PLAN AND FEDERAL, STATE OR LOCAL SAFETY REQUIREMENTS.
- PROVIDE AND FOLLOW APPROVED CONFINED SPACE ENTRY PROGRAM IN ACCORDANCE WITH OSHA REQUIREMENTS. CONFINED SPACES SHALL INCLUDE MANHOLES AND ALL OTHER CONFINED SPACES IN ACCORDANCE WITH OSHA'S PERMIT REQUIRED FOR CONFINED SPACES
- ONLY CITY PREQUALIFIED CONTRACTORS, BY APPROPRIATE WATER DEPARTMENT WORK CATEGORY, SHALL BE ALLOWED TO ADJUST VALVE BOXES, MANHOLES, RING & COVERS, ETC.

STORM DRAIN

- MAINTAIN THE EXISTING STORM DRAINAGE SYSTEM UNTIL THE PROPOSED SYSTEM IS IN SERVICE. IN NO CASE SHOULD THE CONTRACTOR LEAVE THE EXISTING STORM DRAIN OUT OF SERVICE WHEREBY RUNOFF WOULD CAUSE DAMAGE TO ADJACENT PROPERTY.
- CONSTRUCT ALL DRAINAGE IMPROVEMENTS FROM THE DOWNSTREAM END TO THE UPSTREAM END TO ALLOW CONTINUED STORM DRAIN SERVICE. IF THE CONTRACTOR PROPOSES TO CONSTRUCT THE SYSTEM OTHERWISE, THE CONTRACTOR SHALL SUBMIT A SEQUENCING PLAN TO THE CITY FOR APPROVAL.
- TAKE APPROPRIATE MEASURES TO PRESERVE WILDLIFE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL GUIDELINES

REVISIONS

No.	DESCRIPTION	DATE
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CONSTRUCTION NOTES

NOTE: ALL DIMENSIONS AND STATION/OFFSETS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED ON PLANS.
 NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING TREES, FENCES, RETAINING WALLS AND STRUCTURES UNLESS OTHERWISE NOTED.
 NOTE: CONTRACTOR SHALL RELOCATE EXISTING FENCES AS NOTED TO ONE FOOT OF PROPOSED RIGHT OF WAY.
 THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATING AT EACH LOCATION:
 AT&T 1-800-878-8711
 FORT WORTH WATER DEPT.-FIELD OPERATIONS WATER (817) 925-2360
 FORT WORTH WATER DEPT.-FIELD OPERATIONS SANITARY SEWER (817) 223-7438
 FORT WORTH WATER DEPT.-FIELD OPERATIONS LOCATE (817) 392-6296
 FORT WORTH T&PW (817) 871-8100
 ATMOS ENERGY (817) 215-4366
 ONCOR GAS & ELECTRIC (817) 215-6214
 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO.
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES**

**TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 GENERAL NOTES**

GENERAL CONSTRUCTION

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 44 OF 189
DRAWN: PTS			

FINISHING SOIL

1. COMPLY WITH CITY OF FORT WORTH STANDARD CONSTRUCTION SPECIFICATION DOCUMENT 32 91 19 - TOPSOIL PLACEMENT AND FINISHING OF PARKWAYS.
2. ALL MEDIAN SOIL SHALL HAVE CLEAN SOIL TO A DEPTH OF 24 INCHES.
3. SOIL SHALL BE FREE OF CONSTRUCTION DEBRIS AND ROCKS GREATER THAN 1.5 INCH. BACKFILL WITH CLEAN SOIL PRIOR TO SEEDING OR SODDING. (32 91 19)
4. THE TOP 6 INCHES SHALL BE CLEAN TOPSOIL; FREE OF ROCKS GREATER THAN 1.5 INCH. (32 91 19)
5. UPON REQUEST, THE CONTRACTOR SHALL PROVIDE TO PARKS AND RECREATION DEPARTMENT A COPY OF CERTIFICATIONS ON SOIL, SOD, SEEDING, AND HYDROMULCHING PRIOR TO INSTALLATION; ALONG WITH THE DELIVERY TICKET.
6. IN ENHANCED LANDSCAPE OPTION, SOIL SHALL BE 50% NATIVE SOIL/50% ORGANIC MATERIAL.

STANDARD LANDSCAPING

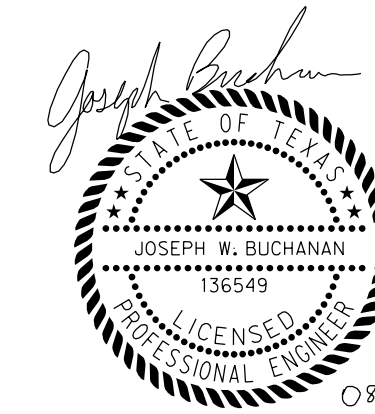
1. COMPLY WITH CFS STANDARD CONSTRUCTION SPECIFICATION DOCUMENT 32 92 13-3 HYDROMULCHING, SEEDING, AND SODDING. VEGETATION COVERAGE MAY BE ATTAINED THROUGH SEEDING, SODDING OR HYDROMULCHING.
2. SOD IS CONSIDERED ESTABLISHED ONCE IT HAS STARTED TO PEG DOWN (ROOTS GROWING INTO THE SOIL) AND IS FREE FROM DEAD BLOCKS OF SOD. (32 19 30)
3. SEEDING AND HYDROMULCHING IS CONSIDERED ESTABLISHED ONCE AREA HAS 100 PERCENT GROWTH TO A HEIGHT OF 3 INCHES WITH 1 MOW CYCLE. (32 19 30)
4. UPON REQUEST, THE CONTRACTOR SHALL PROVIDE PARD A COPY OF ALL CERTIFICATIONS ON SOIL, SOD, SEEDING, OR HYDROMULCHING PRIOR INSTALLATION; ALONG WITH A COPY OF THE DELIVERY TICKET.
5. UPON REQUEST, CONTRACTOR SHALL PROVIDE SEED; VENDORS' CERTIFICATION THAT SEEDS MEET TEXAS STATE SEED LAW INCLUDING: TESTING AND LABELING FOR PURE LIVE SEED (PLS), NAME AND TYPE OF SEED. ALL SEED SHALL BE TESTED IN A LABORATORY WITH CERTIFIED RESULTS PRESENTED TO THE CITY IN WRITING, PRIOR TO PLANTING. ALL SEED TO BE OF THE PREVIOUS SEASON'S CROP AND THE DATE ON THE CONTAINER SHALL BE WITHIN 12 MONTHS OF SEEDING DATE. (32 92 13-3)

MAINTENANCE PRIOR TO GREENSHEET

1. BLOCK SODDING; WATER AND MOW SOD UNTIL COMPLETION AND FINAL ACCEPTANCE OF THE PROJECT OR AS DIRECTED BY THE CITY. SOD SHALL NOT BE CONSIDERED FINALLY ACCEPTED UNTIL THE SOD HAS STARTED TO PEG DOWN (ROOTS GROWING INTO THE SOIL) AND IS FREE FROM DEAD BLOCKS OF SOD. (32 19 30)
2. SEEDING; WATER AND MOW SOD UNTIL COMPLETION AND FINAL ACCEPTANCE OF THE PROJECT OR AS DIRECTED BY THE CITY. MAINTAIN THE SEEDED AREA UNTIL EACH OF THE FOLLOWING IS ACHIEVED:
A. VEGETATION IS EVENLY DISTRIBUTED.
B. VEGETATION IS FREE FROM BARE AREAS
3. TURF WILL BE ACCEPTED ONCE FULLY ESTABLISHED. SEEDED AREA MUST HAVE 100 PERCENT GROWTH TO A HEIGHT OF 3 INCHES WITH 1 MOW CYCLE PERFORMED BY THE CONTRACTOR PRIOR TO CONSIDERATION OF ACCEPTANCE BY THE CITY. (32 19 30)
4. MEDIANS/ROWS SHALL BE MAINTAINED BY CONTRACTOR FOR HIGH GRASS AND WEEDS EVERY 14 DAYS UNTIL CITY ACCEPTANCE.

REVISIONS

NO.	DESCRIPTION	DATE
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 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO.
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

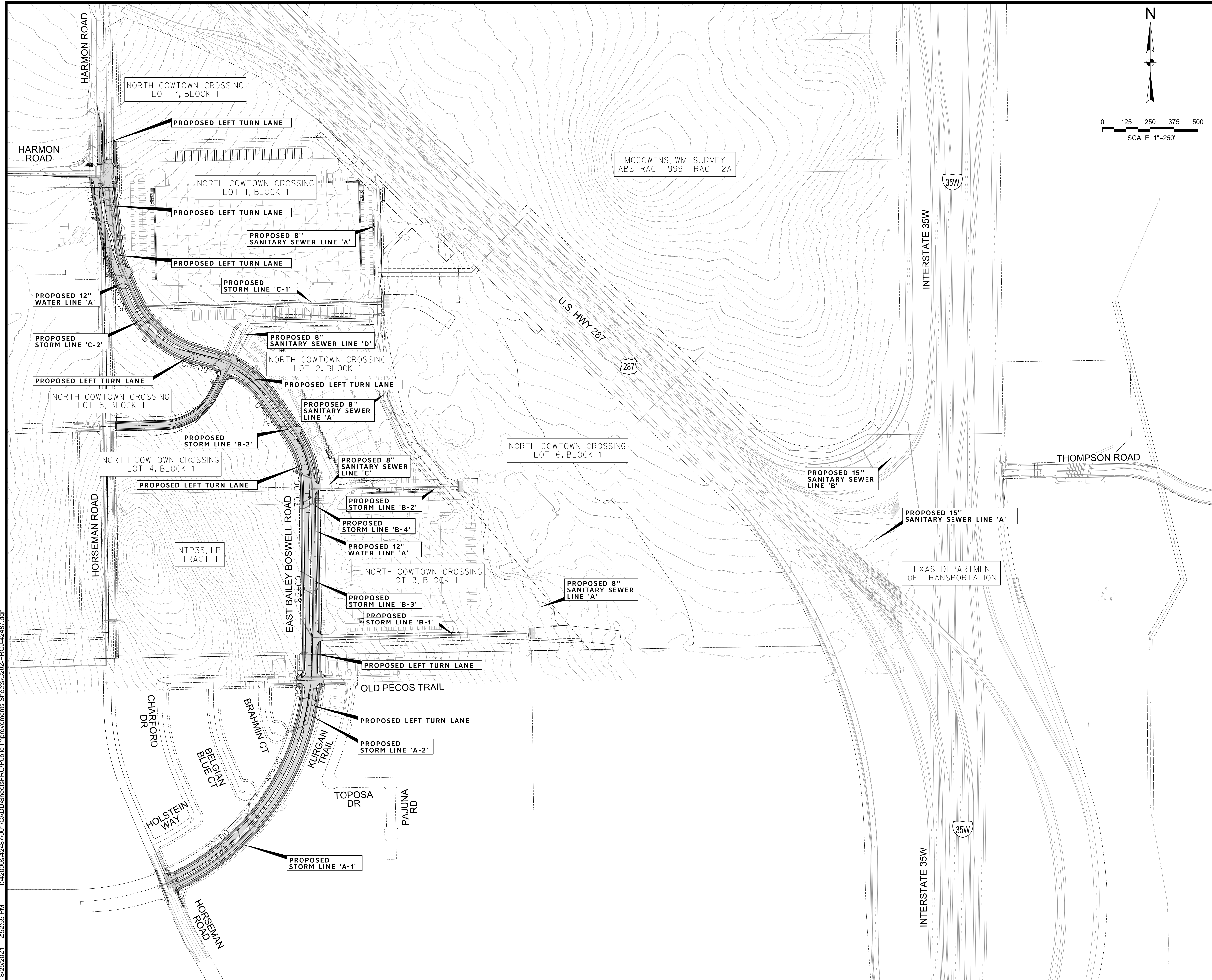
**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT
 SERVICES**

**TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

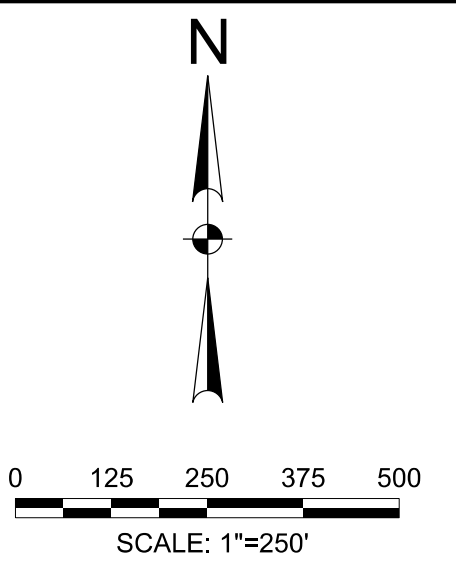
**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 GENERAL NOTES**

GENERAL CONSTRUCTION

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 45 OF 189
DRAWN: PTS			



REVISIONS		
NO.	DESCRIPTION	DATE
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2		
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LEGEND



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E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TWP PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
PROJECT LAYOUT

PAVING & GRADING

DESIGNED: TMW	SCALE: 1"=250'	DATE: 06/08/2021	SHEET 46 OF 189
DRAWN: PTS			

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C.L. E. BAILEY BOSWELL ROAD

Chain CL-BBR contains:
 CUR CL-BBR-1 CUR CL-BBR-2 CUR CL-BBR-3 CUR CL-BBR-4 CUR CL-BBR-5 CUR CL-BBR-6 - 301

Beginning chain CL-BBR description

Curve Data

Curve CL-BBR-1
 P.I. Station = 54+73.53 N 7,006,863.0594 E 2,328,186.0985
 Delta = 67° 49' 22.49" (LT)
 Degree = 4° 37' 14.26"
 Tangent = 833.5269
 Length = 1,467.7209
 Radius = 1,240.0000
 External = 254.1108
 Long Chord = 1,383.5297
 Mid. Ord. = 210.8929
 P.C. Station = 46+40.00 N 7,006,538.5047 E 2,327,418.3542
 P.T. Station = 61+07.72 N 7,007,696.5179 E 2,328,175.4275
 C.C. = 7,007,680.6430 E 2,326,935.5291
 Back = N 67° 05' 03.76" E
 Ahead = N 0° 44' 00.74" W
 Chord Bear = N 33° 10' 31.51" E

Course from PT CL-BBR-1 to PC CL-BBR-2 N 0° 44' 00.74" W Dist 927.0792

Curve Data

Curve CL-BBR-2
 P.I. Station = 71+90.84 N 7,008,779.5437 E 2,328,161.5611
 Delta = 34° 01' 23.31" (LT)
 Degree = 11° 14' 04.08"
 Tangent = 156.0353
 Length = 302.8461
 Radius = 510.0000
 External = 23.3357
 Long Chord = 298.4161
 Mid. Ord. = 22.3147
 P.C. Station = 70+34.80 N 7,008,623.5212 E 2,328,163.5587
 P.T. Station = 73+37.65 N 7,008,907.7392 E 2,328,072.6065
 C.C. = 7,008,616.9920 E 2,327,653.6005
 Back = N 0° 44' 00.74" W
 Ahead = N 34° 45' 24.05" W
 Chord Bear = N 17° 44' 42.39" W

Course from PT CL-BBR-2 to PC CL-BBR-3 N 34° 45' 24.05" W Dist 223.4294

Curve Data

Curve CL-BBR-3
 P.I. Station = 77+45.75 N 7,009,243.0291 E 2,327,839.9497
 Delta = 39° 48' 40.57" (LT)
 Degree = 11° 14' 04.08"
 Tangent = 184.6742
 Length = 354.3672
 Radius = 510.0000
 External = 32.4063
 Long Chord = 347.2815
 Mid. Ord. = 30.4701
 P.C. Station = 75+61.08 N 7,009,091.3045 E 2,327,945.2311
 P.T. Station = 79+15.44 N 7,009,292.1701 E 2,327,661.9337
 C.C. = 7,008,800.5572 E 2,327,526.2250
 Back = N 34° 45' 24.05" W
 Ahead = N 74° 34' 04.62" W
 Chord Bear = N 54° 39' 44.34" W

Course from PT CL-BBR-3 to PC CL-BBR-4 N 74° 34' 04.62" W Dist 100.0000

Curve Data

Curve CL-BBR-4
 P.I. Station = 82+58.01 N 7,009,383.3251 E 2,327,331.7189
 Delta = 50° 52' 23.66" (RT)
 Degree = 11° 14' 04.08"
 Tangent = 242.5654
 Length = 452.8318
 Radius = 510.0000
 External = 54.7459
 Long Chord = 438.1026
 Mid. Ord. = 49.4389
 P.C. Station = 80+15.44 N 7,009,318.7796 E 2,327,565.5390
 P.T. Station = 84+68.27 N 7,009,605.4422 E 2,327,234.2408
 C.C. = 7,009,810.3924 E 2,327,701.2476
 Back = N 74° 34' 04.62" W
 Ahead = N 23° 41' 40.96" W
 Chord Bear = N 49° 07' 52.79" W

Course from PT CL-BBR-4 to PC CL-BBR-5 N 23° 41' 40.96" W Dist 155.1278

Curve Data

Curve CL-BBR-5
 P.I. Station = 86+78.36 N 7,009,797.8207 E 2,327,149.8137
 Delta = 12° 18' 06.26" (RT)
 Degree = 11° 14' 04.08"
 Tangent = 54.9613
 Length = 109.5000
 Radius = 510.0000
 External = 2.9530
 Long Chord = 109.2898
 Mid. Ord. = 2.9360
 P.C. Station = 86+23.40 N 7,009,747.4926 E 2,327,171.9006
 P.T. Station = 87+32.90 N 7,009,851.6990 E 2,327,138.9568
 C.C. = 7,009,952.4429 E 2,327,638.9075
 Back = N 23° 41' 40.96" W
 Ahead = N 11° 23' 34.70" W
 Chord Bear = N 17° 32' 37.83" W

Course from PT CL-BBR-5 to PC CL-BBR-6 N 11° 23' 34.70" W Dist 267.1094

Curve Data

Curve CL-BBR-6
 P.I. Station = 90+48.18 N 7,010,160.7685 E 2,327,076.6769
 Delta = 10° 47' 30.70" (RT)
 Degree = 11° 14' 04.08"
 Tangent = 48.1726
 Length = 96.0603
 Radius = 510.0000
 External = 2.2701
 Long Chord = 95.9184
 Mid. Ord. = 2.2600
 P.C. Station = 90+00.01 N 7,010,113.5451 E 2,327,086.1928
 P.T. Station = 90+96.07 N 7,010,208.9385 E 2,327,076.1715
 C.C. = 7,010,214.2890 E 2,327,586.1435
 Back = N 11° 23' 34.70" W
 Ahead = N 0° 36' 04.00" W
 Chord Bear = N 5° 59' 49.35" W

Course from PT CL-BBR-6 to 301 N 0° 36' 04.00" W Dist 453.9277

Point 301 N 7,010,662.8413 E 2,327,071.4093 Sta 95+50.00

Ending chain CL-BBR description

C.L. CRESTED BUTTE DRIVE

Chain CL-CREST contains:
 135 CUR CL-CREST-1 136

Beginning chain CL-CREST description

Point 135 N 7,008,940.1358 E 2,327,106.7400 Sta 0+00.00

Course from 135 to PC CL-CREST-1 N 88° 31' 28.34" E Dist 294.3980

Curve Data

Curve CL-CREST-1
 P.I. Station = 4+67.02 N 7,008,952.1609 E 2,327,573.6030
 Delta = 59° 49' 55.93" (LT)
 Degree = 19° 05' 54.94"
 Tangent = 172.6199
 Length = 313.2807
 Radius = 300.0000
 External = 46.1179
 Long Chord = 299.2388
 Mid. Ord. = 39.9730
 P.C. Station = 2+94.40 N 7,008,947.7162 E 2,327,401.0404
 P.T. Station = 6+07.68 N 7,009,103.5849 E 2,327,656.4789
 C.C. = 7,009,247.6167 E 2,327,393.3158
 Back = N 88° 31' 28.34" E
 Ahead = N 28° 41' 32.41" E
 Chord Bear = N 58° 36' 30.37" E

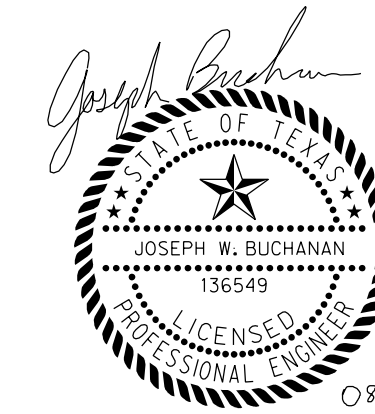
Course from PT CL-CREST-1 to 136 N 28° 41' 32.41" E Dist 180.6886

Point 136 N 7,009,262.0867 E 2,327,743.2286 Sta 7+88.37

Ending chain CL-CREST description

REVISIONS

No.	DESCRIPTION	DATE
1		
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CONSTRUCTION NOTES

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 AT&T 1-800-878-8711
 FORT WORTH WATER DEPT.-FIELD OPERATIONS WATER (817) 925-2360
 FORT WORTH WATER DEPT.-FIELD OPERATIONS SANITARY SEWER (817) 223-7438
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 ATMOS ENERGY (817) 215-4366
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 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO.
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

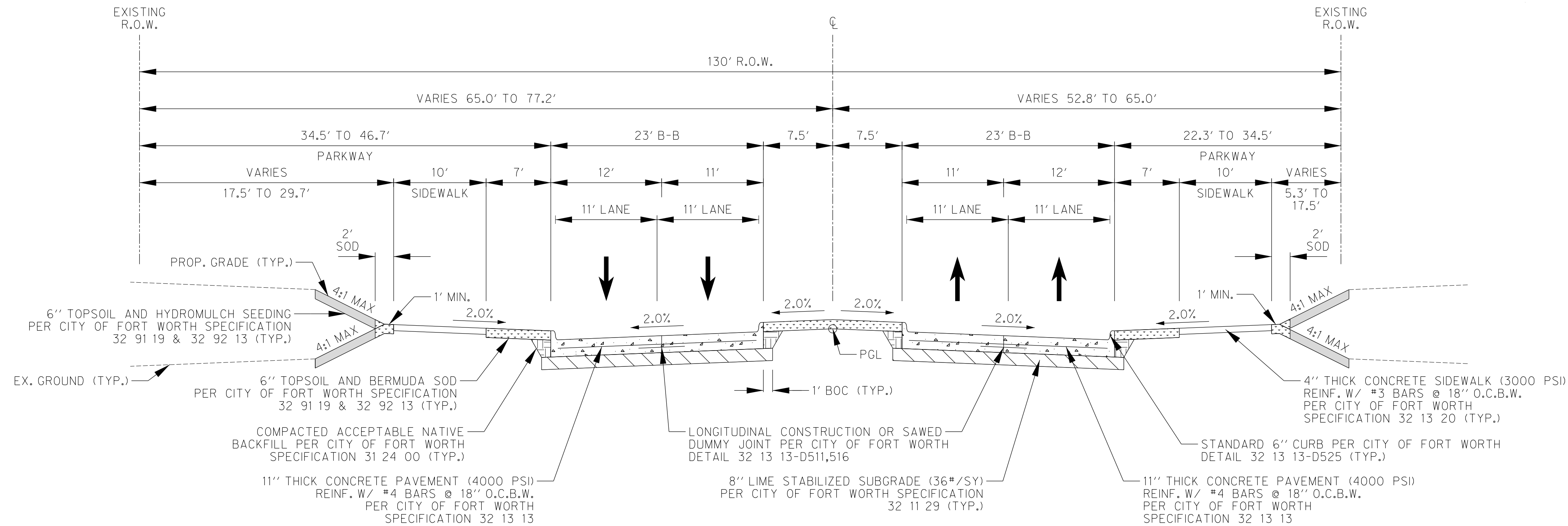
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT
 SERVICES

TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

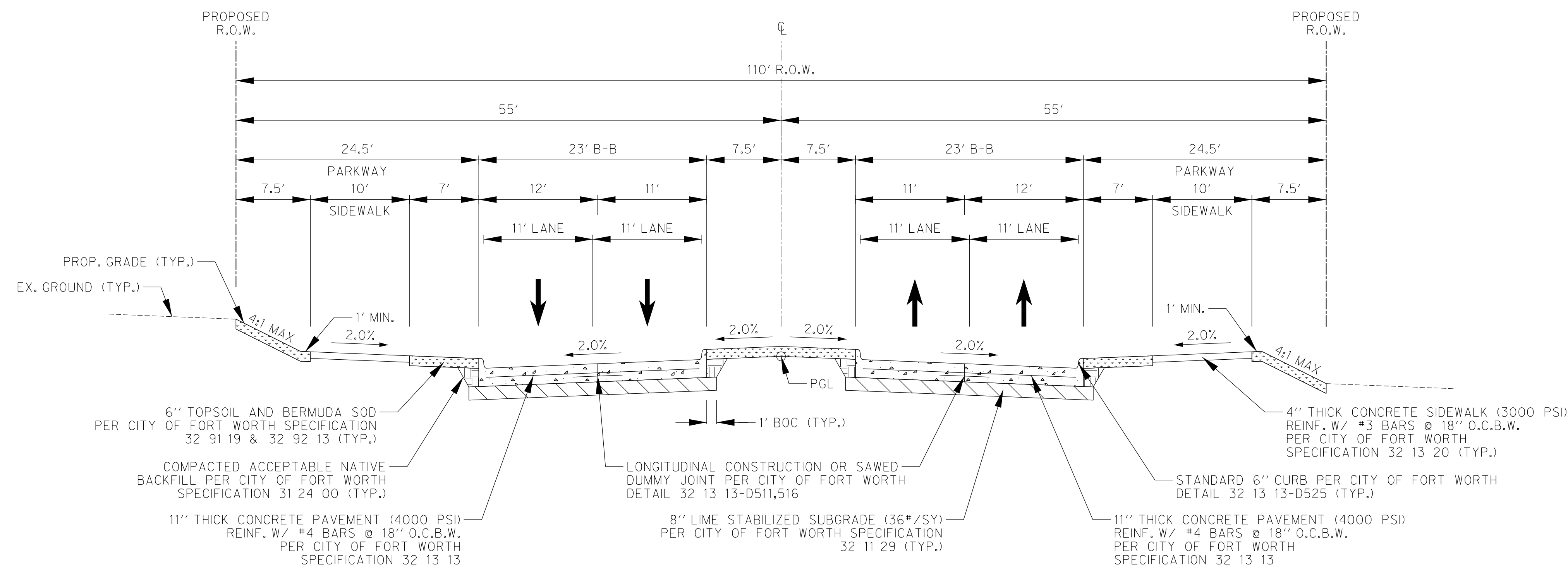
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
HORIZONTAL ALIGNMENT

DESIGNED: TMW	SCALE:	DATE:	SHEET
DRAWN: PTS	N.T.S.	06/08/2021	47 OF 189

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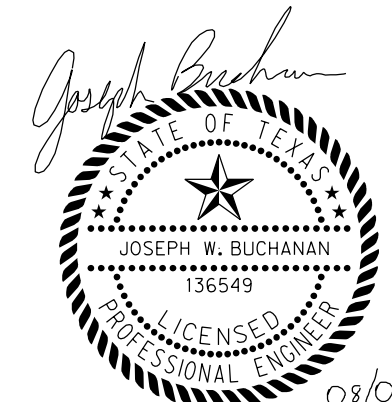
PROPOSED EAST BAILEY BOSWELL ROAD TYPICAL SECTION
 STA 46+40.00 TO STA 61+65.00
 SCALE: N.T.S.



PROPOSED EAST BAILEY BOSWELL ROAD TYPICAL SECTION
 STA 61+65.00 TO STA 85+50.00
 SCALE: N.T.S.

REVISIONS

No.	DESCRIPTION	DATE
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3		



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 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO.
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

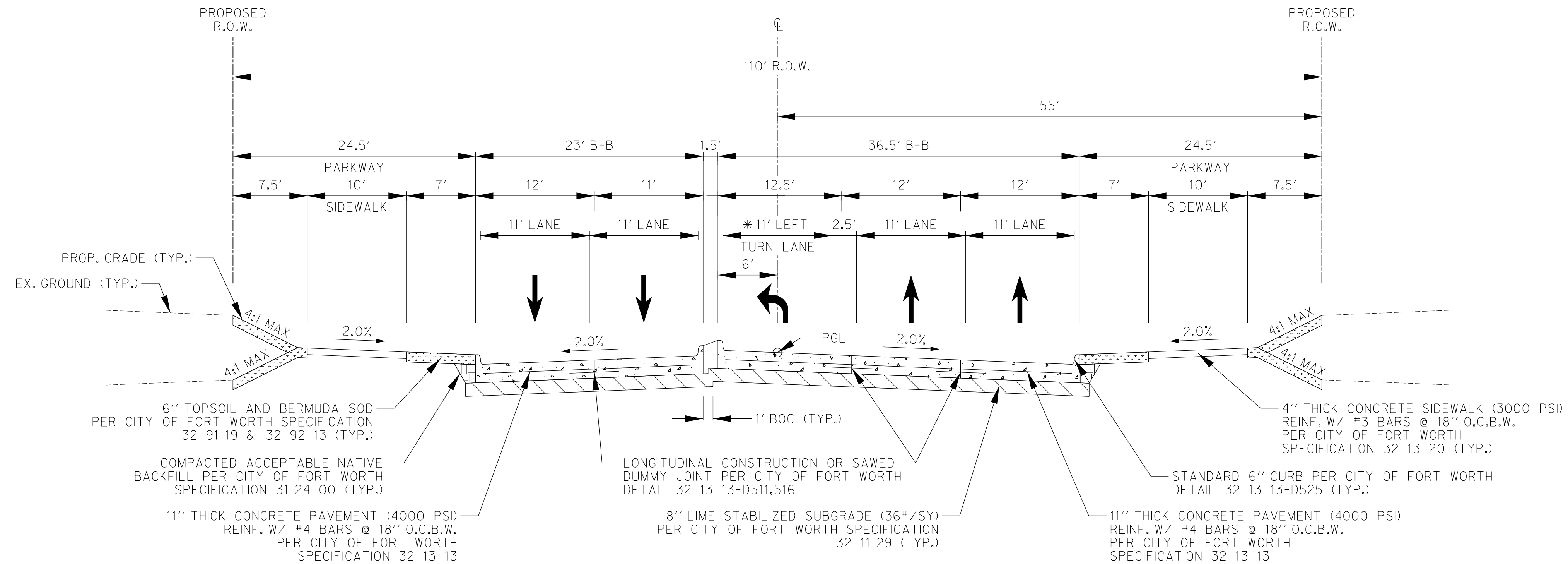
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
TYPICAL SECTIONS

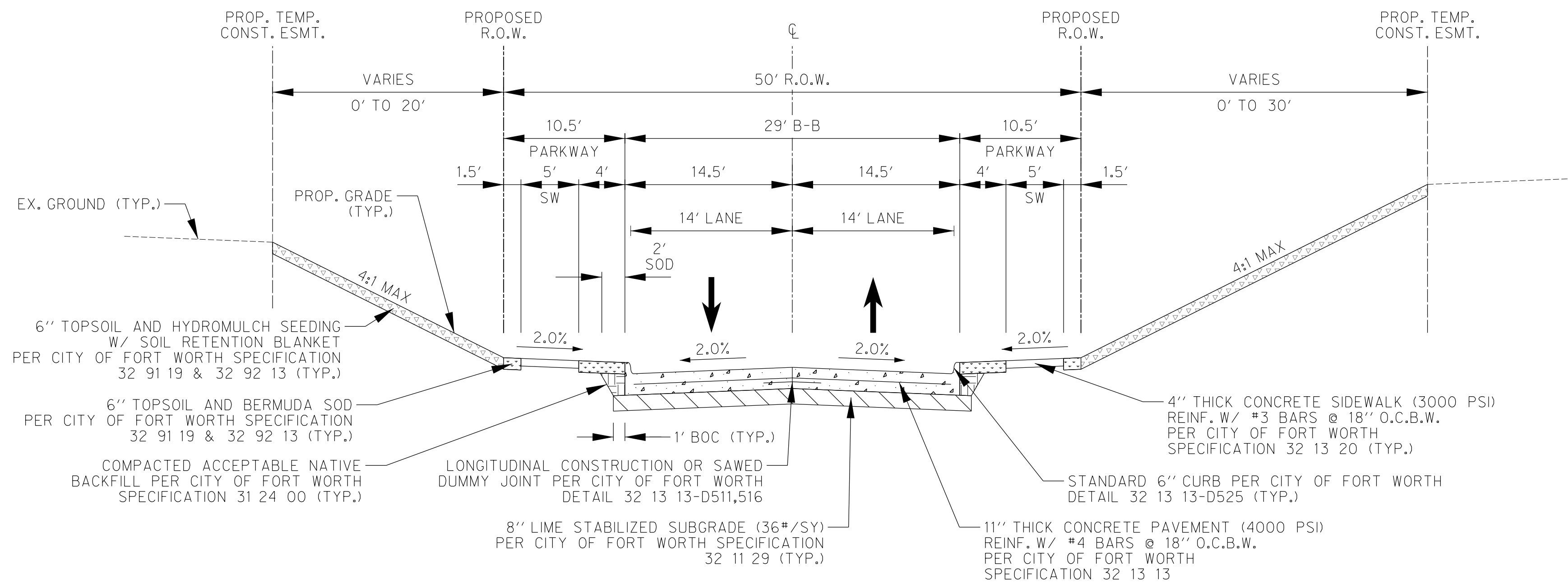
DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 48 OF 189
DRAWN: PTS			

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PROPOSED EAST BAILEY BOSWELL ROAD TYPICAL SECTION
LEFT TURN LANE
SCALE: N.T.S.

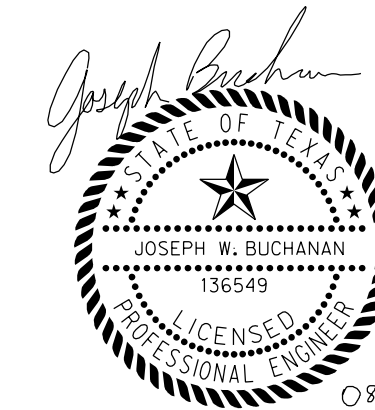
* LEFT TURN LANE IS NOT CONTINUOUS AND ALSO OCCURS ON SB SIDE



PROPOSED CRESTED BUTTE TYPICAL SECTION
SCALE: N.T.S.

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
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 FORT WORTH T&P (817) 871-8100
 ATMOS ENERGY (817) 215-4366
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 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

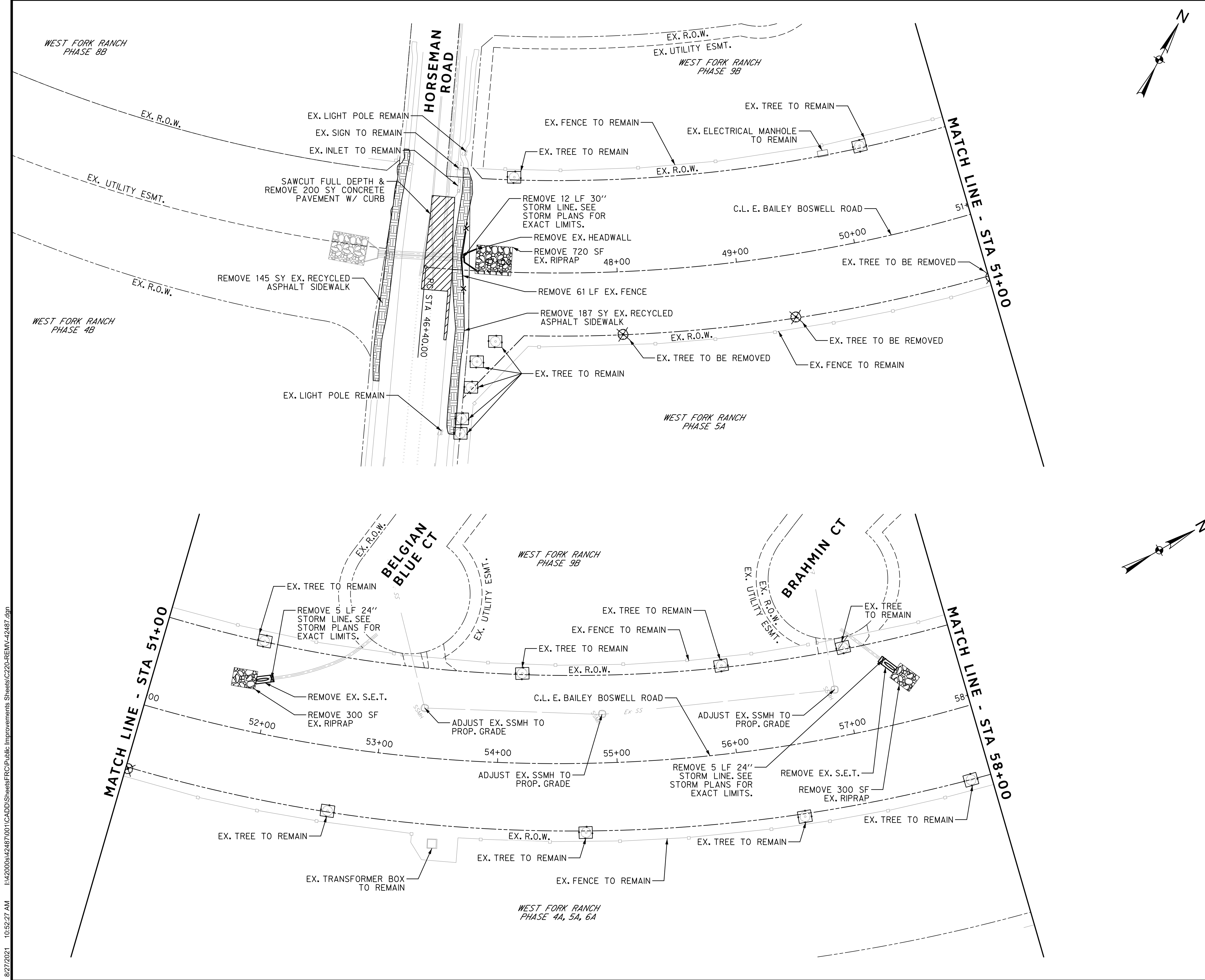
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD
TYPICAL SECTIONS

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 49 OF 189
DRAWN: PTS			

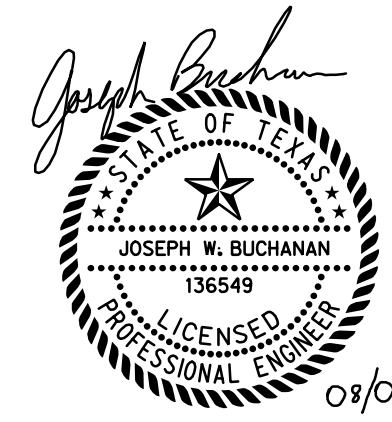


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- REMOVAL LEGEND**
- FULL DEPTH CONCRETE PAVEMENT TO BE SAWCUT AND REMOVED, INCLUDING BASE
 - GRAVEL ROADWAY TO BE REMOVED
 - RECYCLED ASPHALT SIDEWALK TO BE REMOVED
 - FENCE TO BE REMOVED
 - PIPE TO BE REMOVED
 - TRAFFIC SIGN/ASSEMBLY TO BE REMOVED
 - EX. TREE TO BE REMOVED
 - TREE PROTECTION DEVICE

1. CONTRACTOR TO VERIFY THAT ALL UTILITIES ARE NO LONGER IN SERVICE OR ABANDONED WITH THE UTILITY COMPANY BEFORE REMOVAL.



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 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

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N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

**EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD
 REMOVAL PLAN
 BEGIN TO STA 58+00**

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 50 OF 189
DRAWN: PTS			

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REVISIONS

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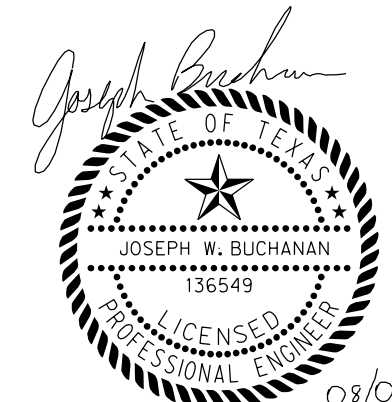


3803 PARKWOOD BLVD., STE 800
FRISCO, TEXAS 75034-8840
(214) 217-6954
SCALE: 1"=40'

REMOVAL LEGEND

- FULL DEPTH CONCRETE PAVEMENT TO BE SAWCUT AND REMOVED, INCLUDING BASE
- GRAVEL ROADWAY TO BE REMOVED
- RECYCLED ASPHALT SIDEWALK TO BE REMOVED
- FENCE TO BE REMOVED
- PIPE TO BE REMOVED
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- TREE PROTECTION DEVICE

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 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

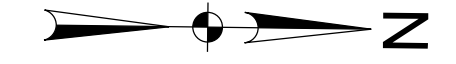
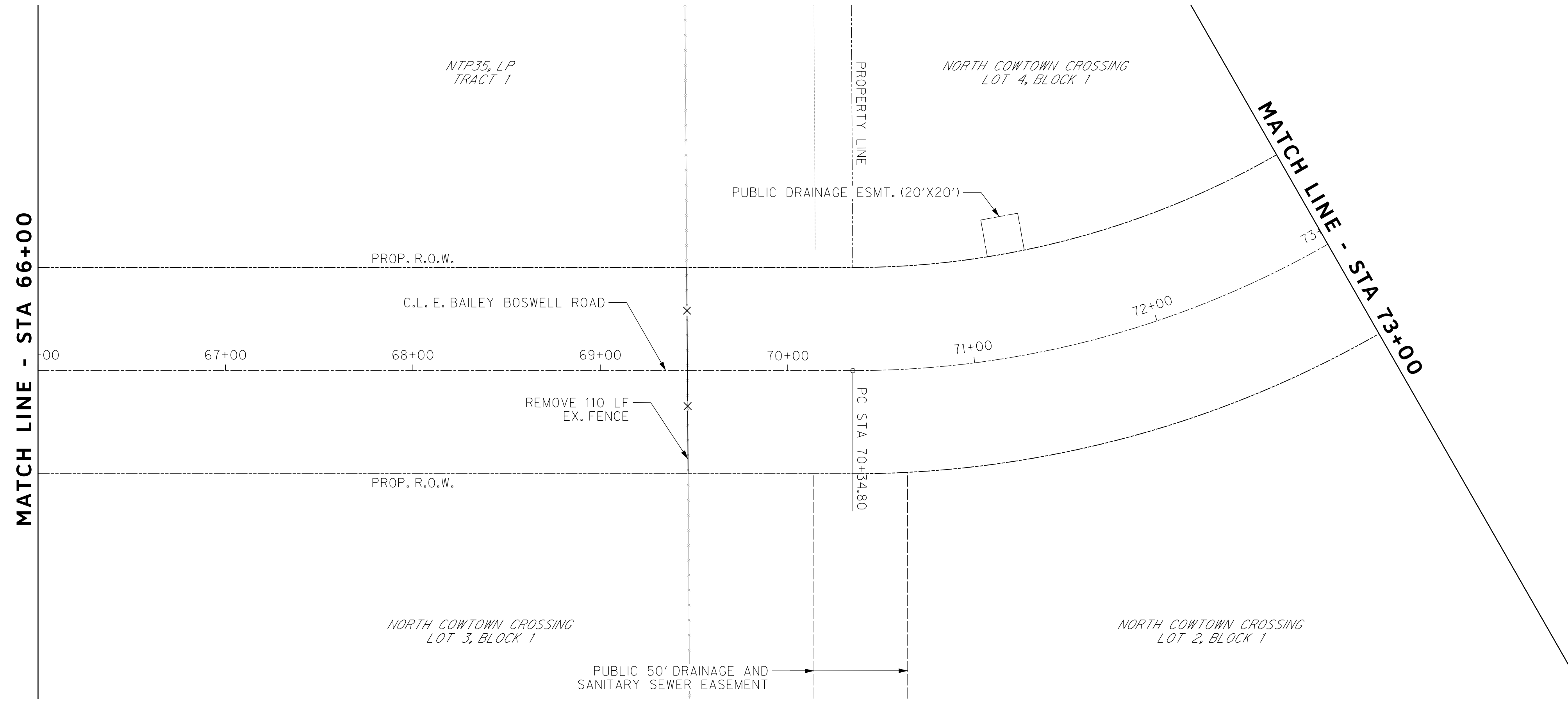
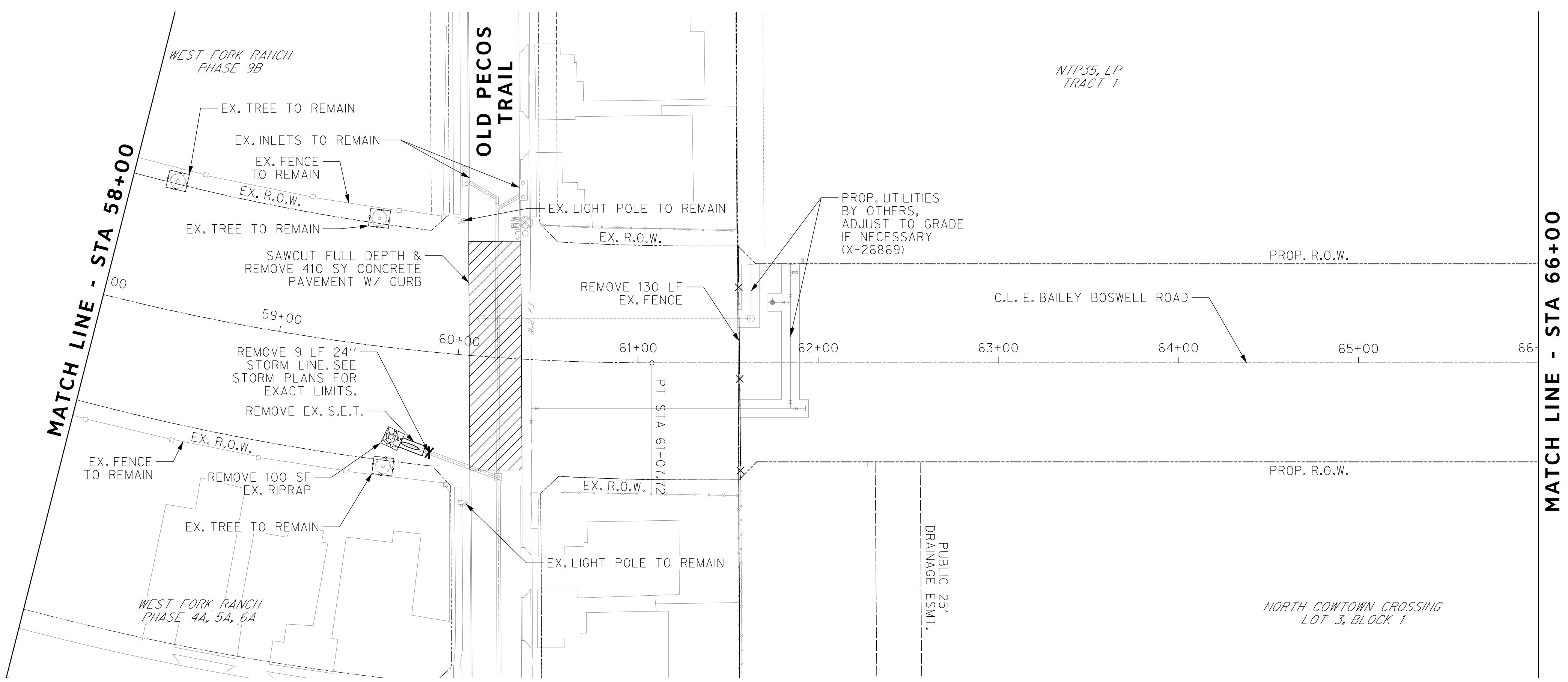
CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO.
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

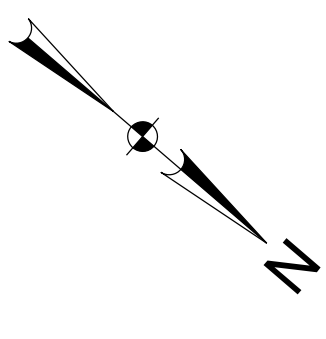
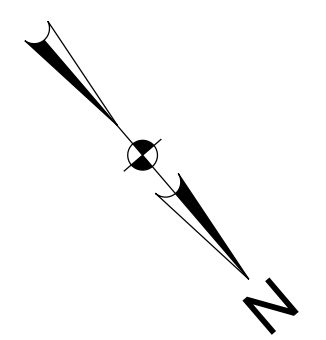
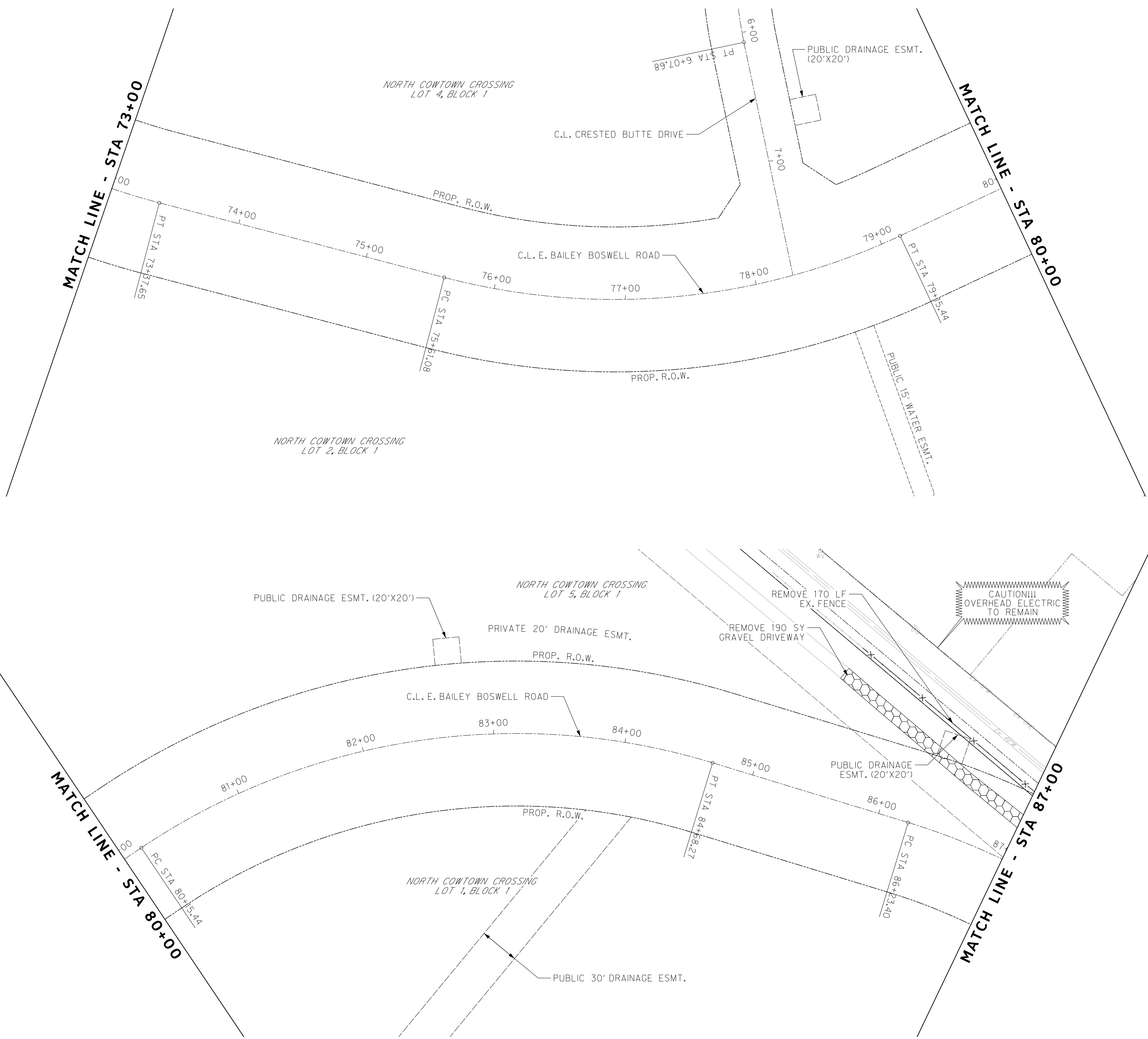
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
REMOVAL PLAN
 STA 58+00 TO STA 73+00

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 51 OF 189
DRAWN: PTS			

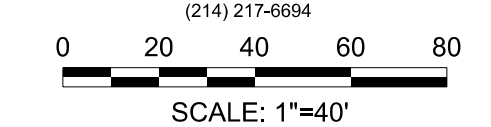


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REVISIONS

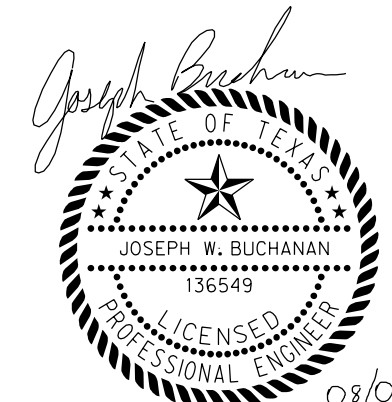
No.	DESCRIPTION	DATE
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2		
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REMOVAL LEGEND

- FULL DEPTH CONCRETE PAVEMENT TO BE SAWCUT AND REMOVED, INCLUDING BASE
- GRAVEL ROADWAY TO BE REMOVED
- RECYCLED ASPHALT SIDEWALK TO BE REMOVED
- FENCE TO BE REMOVED
- PIPE TO BE REMOVED
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- EX. TREE TO BE REMOVED
- TREE PROTECTION DEVICE

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HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
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ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

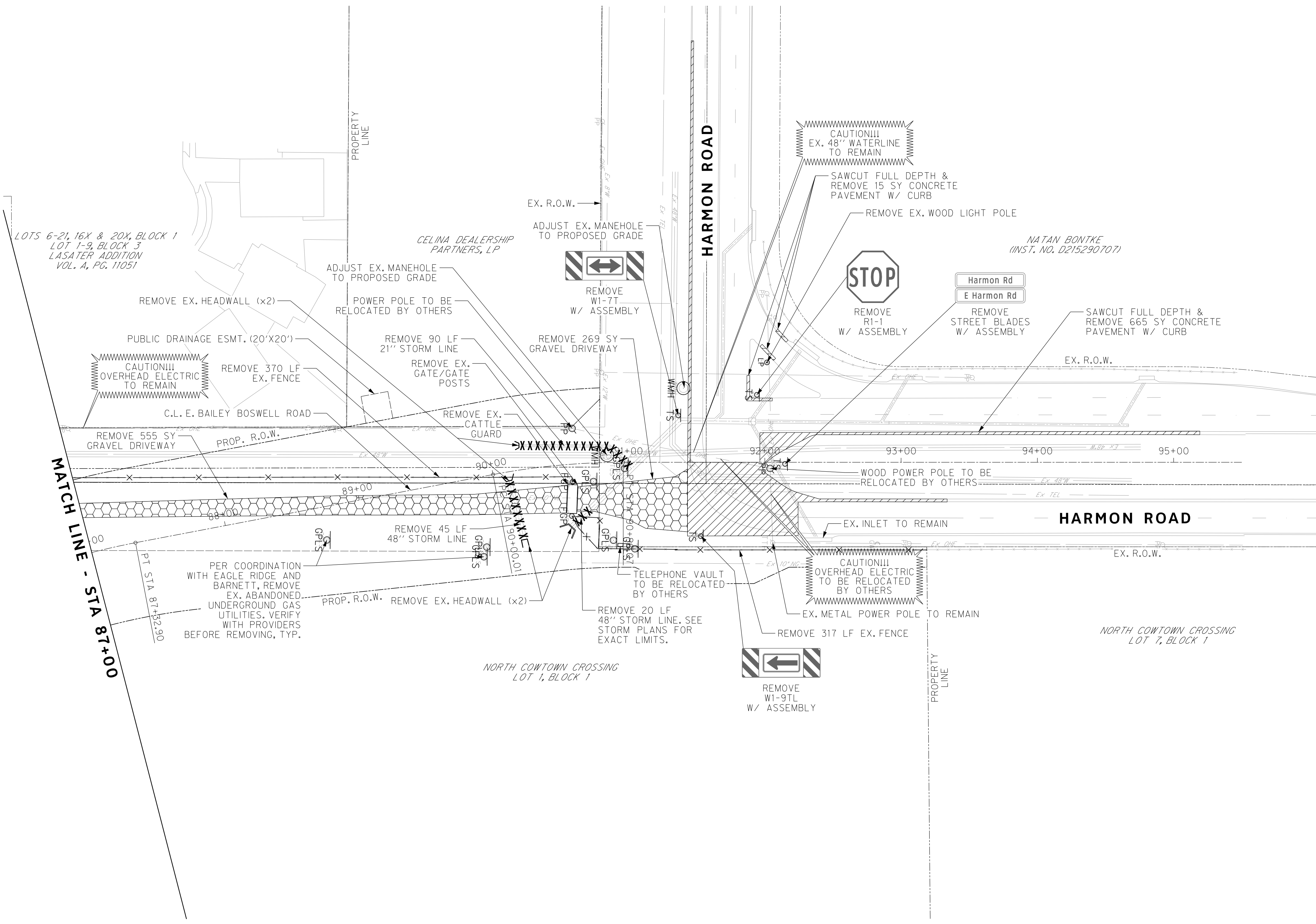
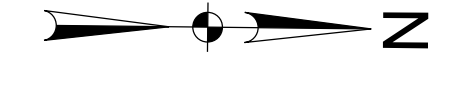
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
REMOVAL PLAN
 STA 73+00 TO STA 87+00

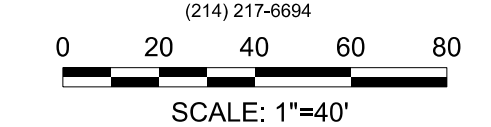
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DRAWN: PTS			

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REVISIONS

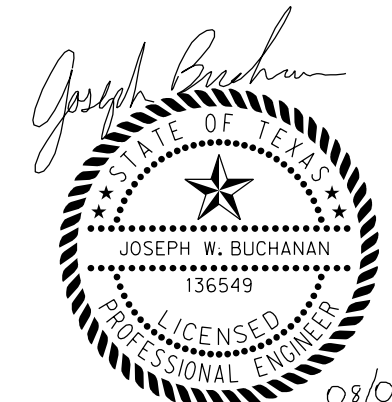
NO.	DESCRIPTION	DATE
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REMOVAL LEGEND

- FULL DEPTH CONCRETE PAVEMENT TO BE SAWCUT AND REMOVED, INCLUDING BASE
- GRAVEL ROADWAY TO BE REMOVED
- RECYCLED ASPHALT SIDEWALK TO BE REMOVED
- FENCE TO BE REMOVED
- PIPE TO BE REMOVED
- TRAFFIC SIGN/ASSEMBLY TO BE REMOVED
- EX. TREE TO BE REMOVED
- TREE PROTECTION DEVICE

1. CONTRACTOR TO VERIFY THAT ALL UTILITIES ARE NO LONGER IN SERVICE OR ABANDONED WITH THE UTILITY COMPANY BEFORE REMOVAL.



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CONSTRUCTION NOTES

NOTE: ALL DIMENSIONS AND STATION/OFFSETS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED ON PLANS.
 NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING TREES, FENCES, RETAINING WALLS AND STRUCTURES UNLESS OTHERWISE NOTED.
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 THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATING AT EACH LOCATION:
 AT&T 1-800-878-8711
 FORT WORTH WATER DEPT.-FIELD OPERATIONS WATER (817) 925-2360
 FORT WORTH WATER DEPT.-FIELD OPERATIONS SANITARY SEWER (817) 223-7438
 FORT WORTH WATER DEPT.-FIELD OPERATIONS LOCATE (817) 392-6296
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 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

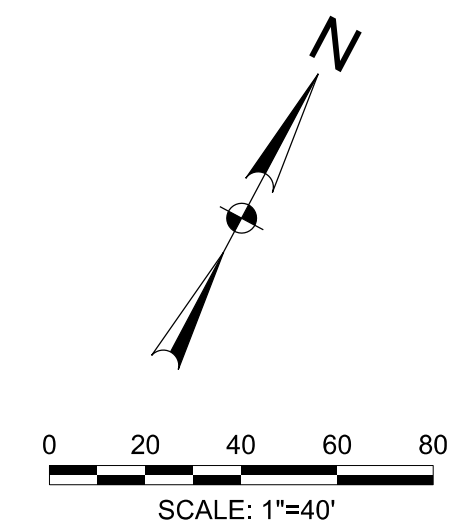
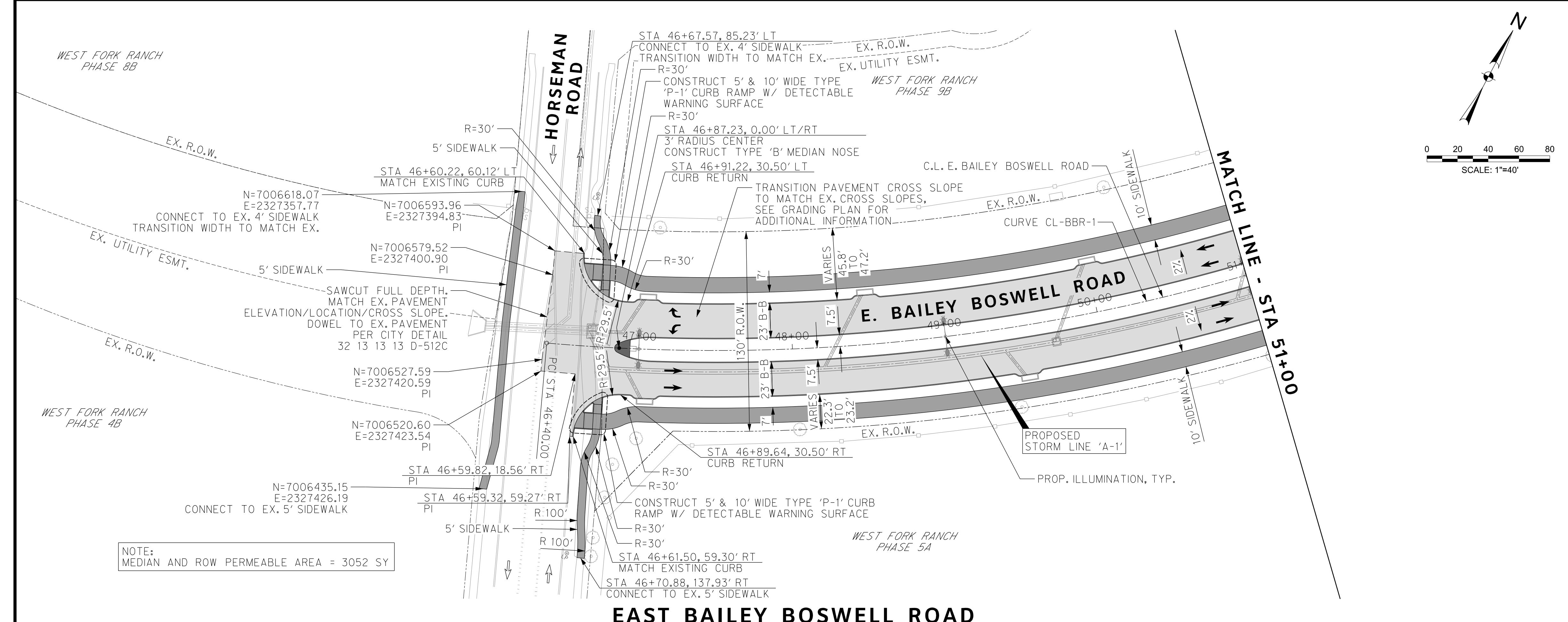
HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO.
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD
REMOVAL PLAN
STA 87+00 TO END

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 53 OF 189
DRAWN: PTS			



REVISIONS		
No.	DESCRIPTION	DATE
1		
2		
3		



- PAVING LEGEND**
- PROPOSED 11" THICK CONCRETE PAVEMENT (4000 PSI) REINF. W/ #4 BARS @ 18" O.C.B.W. OVER 8" LIME STABILIZED SUBGRADE (6%)
 - PROPOSED 4" THICK CONCRETE SIDEWALK (3000 PSI) REINF. W/ #3 BARS @ 18" O.C.B.W.
 - PROPOSED MONOLITHIC MEDIAN NOSE
 - PROPOSED CONCRETE MEDIAN
 - PROPOSED TRAFFIC LANE
 - EXISTING TRAFFIC LANE
 - SAWCUT/PAVEMENT REMOVAL LIMIT

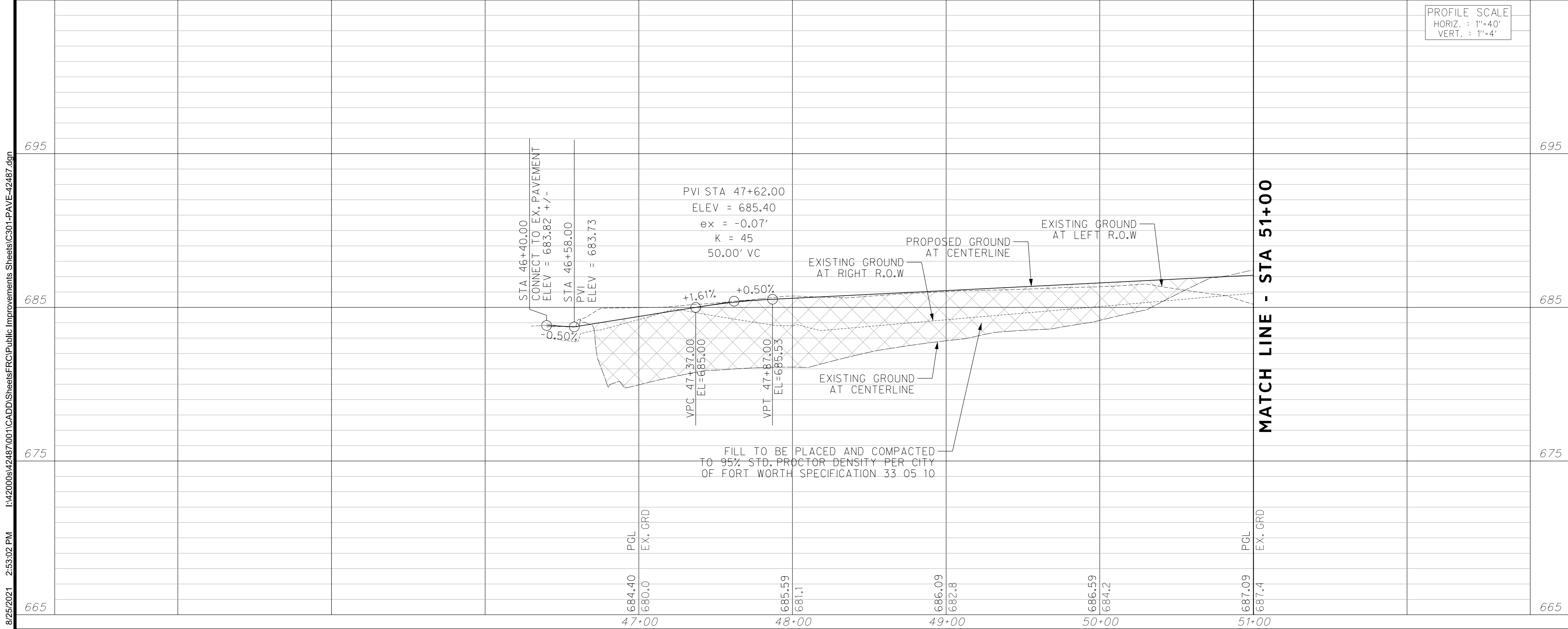
- NOTES:**
- CONTRACTOR TO INSTALL EXPANSION JOINTS AT ALL PC AND PT LOCATIONS.
 - SEE GRADING PLAN FOR ROADWAY CROSS SLOPES AT INTERSECTIONS.



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EAST BAILEY BOSWELL ROAD

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



- CONSTRUCTION NOTES**
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 - CHARTER COMM. (817) 509-6272 EXT. 3363
 - ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

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ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

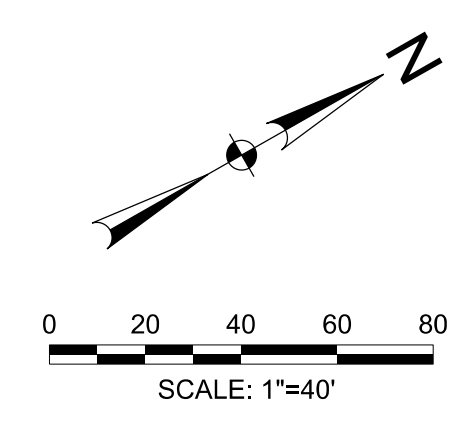
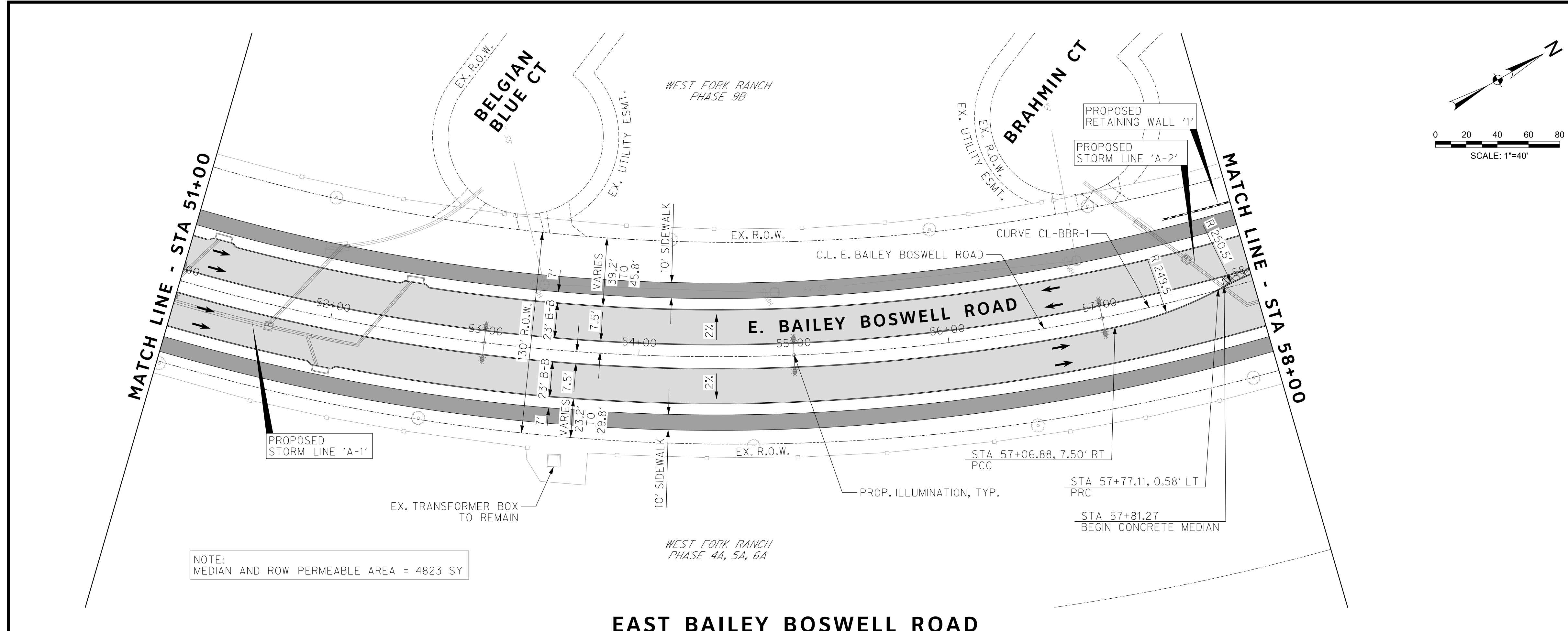
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
PAVING
BEGIN TO STA 51+00

PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 54 OF 189
DRAWN: PTS			

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REVISIONS		
NO.	DESCRIPTION	DATE
1		
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- PAVING LEGEND**
- PROPOSED 11" THICK CONCRETE PAVEMENT (4000 PSI) REINF. W/ #4 BARS @ 18" O.C.B.W. OVER 8" LIME STABILIZED SUBGRADE (6%)
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 - PROPOSED MONOLITHIC MEDIAN NOSE
 - PROPOSED CONCRETE MEDIAN
 - PROPOSED TRAFFIC LANE
 - EXISTING TRAFFIC LANE
 - SAWCUT/PAVEMENT REMOVAL LIMIT

- NOTES:**
- CONTRACTOR TO INSTALL EXPANSION JOINTS AT ALL PC AND PT LOCATIONS.
 - SEE GRADING PLAN FOR ROADWAY CROSS SLOPES AT INTERSECTIONS.



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EAST BAILEY BOSWELL ROAD

NOTE: MEDIAN AND ROW PERMEABLE AREA = 4823 SY

CONSTRUCTION NOTES

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 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

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E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

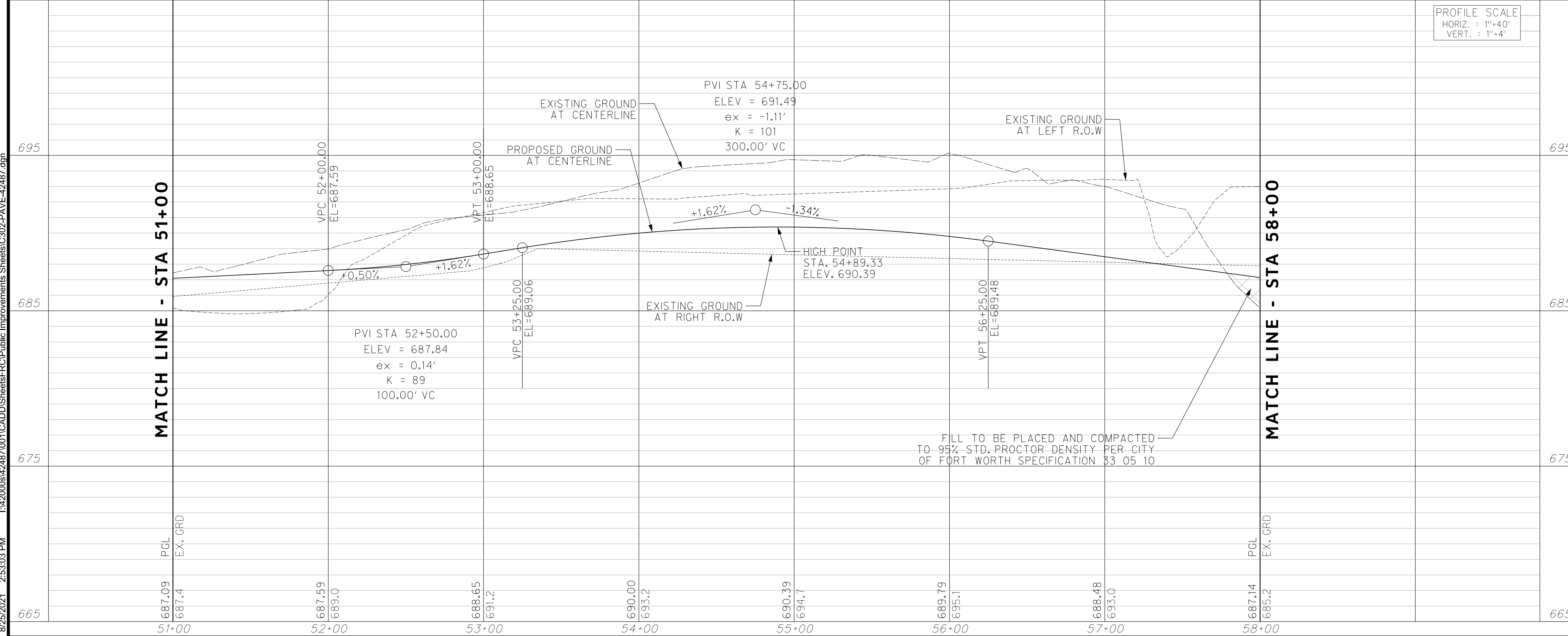
**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES**

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 PAVING
 STA 51+00 TO STA 58+00**

PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 55 OF 189
DRAWN: PTS			



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REVISIONS

No.	DESCRIPTION	DATE
1		
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PAVING LEGEND

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- PROPOSED CONCRETE MEDIAN
- PROPOSED TRAFFIC LANE
- EXISTING TRAFFIC LANE
- SAWCUT/PAVEMENT REMOVAL LIMIT

- NOTES:**
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HORIZONTAL & VERTICAL CONTROL

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N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
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DOE #	K-2840
CITY PROJECT # 103320	MAPSCO NO.
TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX	119E AND 119F
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX	
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX	
MAP NO. XXXX-XXX	

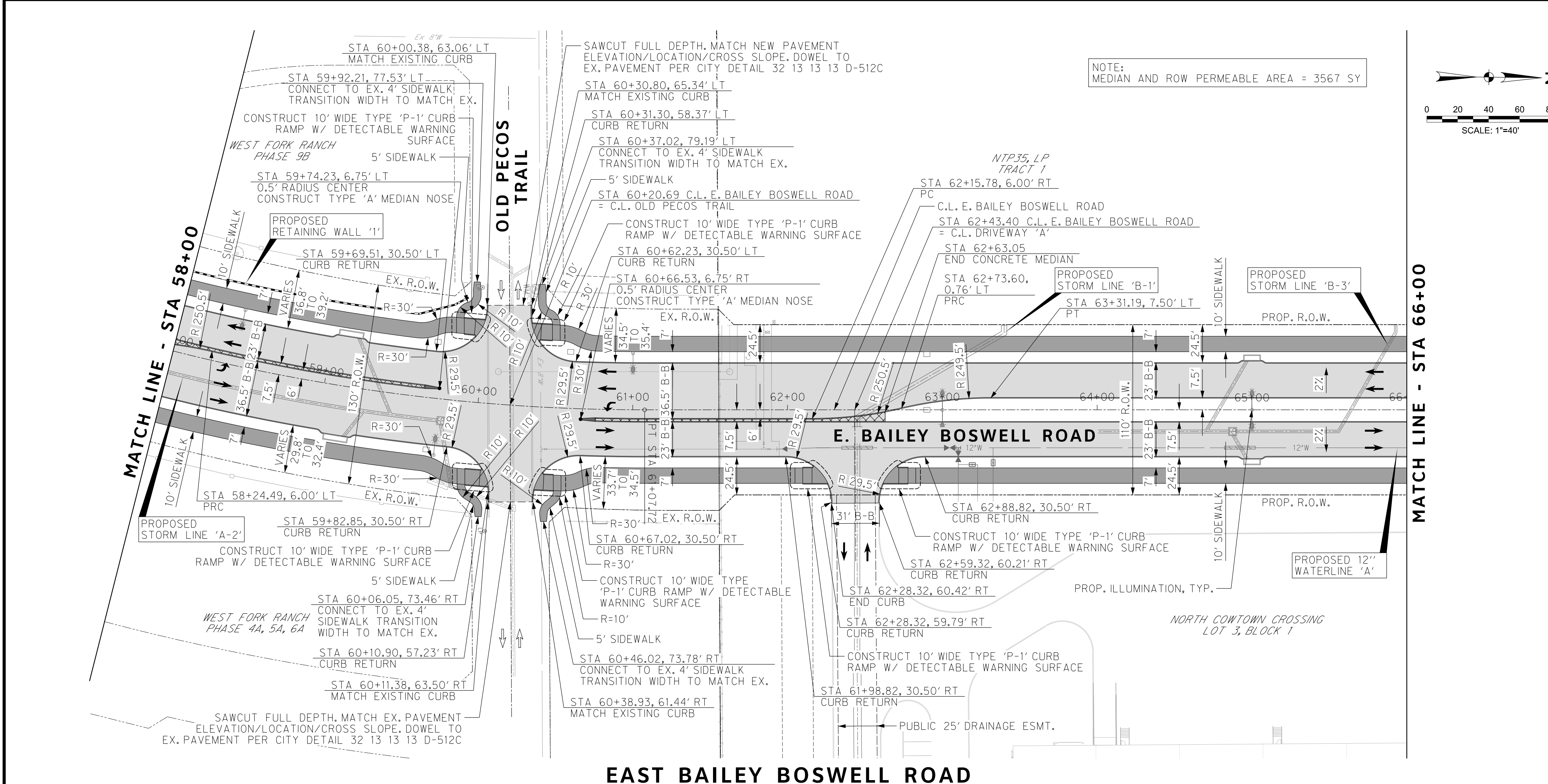
**CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES**

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

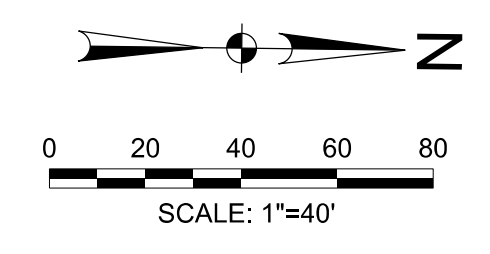
**EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
PAVING
STA 58+00 TO STA 66+00**

PLAN & PROFILE

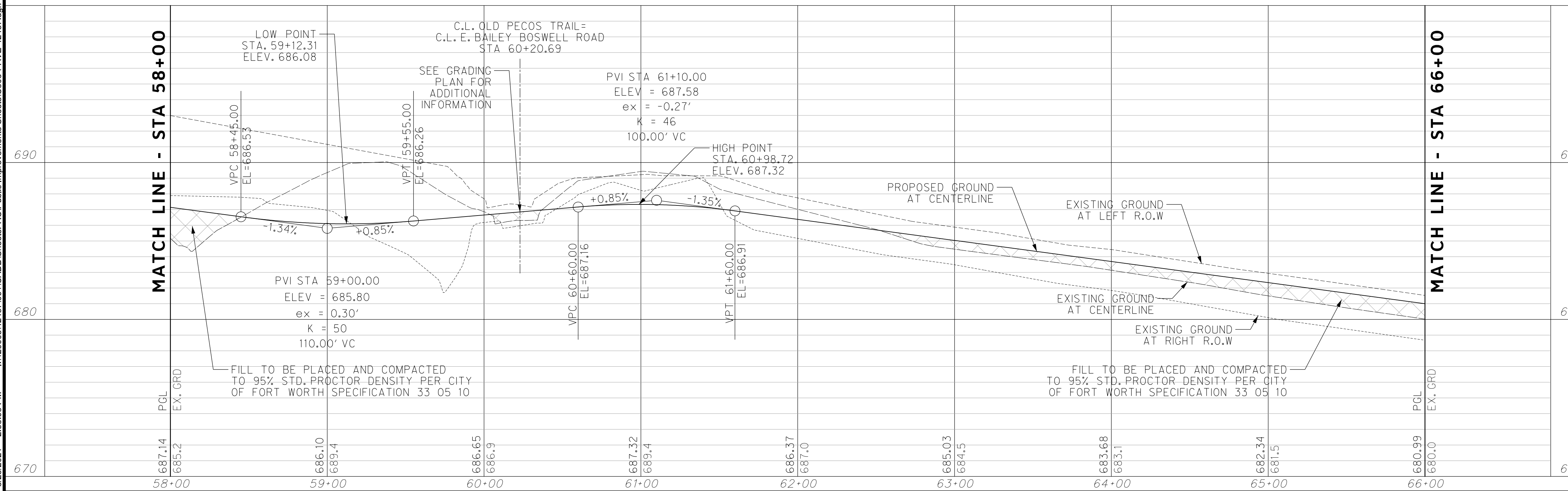
DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 56 OF 189
DRAWN: PTS			



NOTE:
MEDIAN AND ROW PERMEABLE AREA = 3567 SY



EAST BAILEY BOSWELL ROAD



FILL TO BE PLACED AND COMPACTED TO 95% STD. PROCTOR DENSITY PER CITY OF FORT WORTH SPECIFICATION 33 05 10

FILL TO BE PLACED AND COMPACTED TO 95% STD. PROCTOR DENSITY PER CITY OF FORT WORTH SPECIFICATION 33 05 10

REVISIONS		
NO.	DESCRIPTION	DATE
1		
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- ### PAVING LEGEND
- PROPOSED 11" THICK CONCRETE PAVEMENT (4000 PSI) REINF. W/ #4 BARS @ 18" O.C.B.W. OVER 8" LIME STABILIZED SUBGRADE (6%)
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 - PROPOSED CONCRETE MEDIAN
 - PROPOSED TRAFFIC LANE
 - EXISTING TRAFFIC LANE
 - SAWCUT/PAVEMENT REMOVAL LIMIT

NOTES:
 1. CONTRACTOR TO INSTALL EXPANSION JOINTS AT ALL PC AND PT LOCATIONS.
 2. SEE GRADING PLAN FOR ROADWAY CROSS SLOPES AT INTERSECTIONS.



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CONSTRUCTION NOTES

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 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

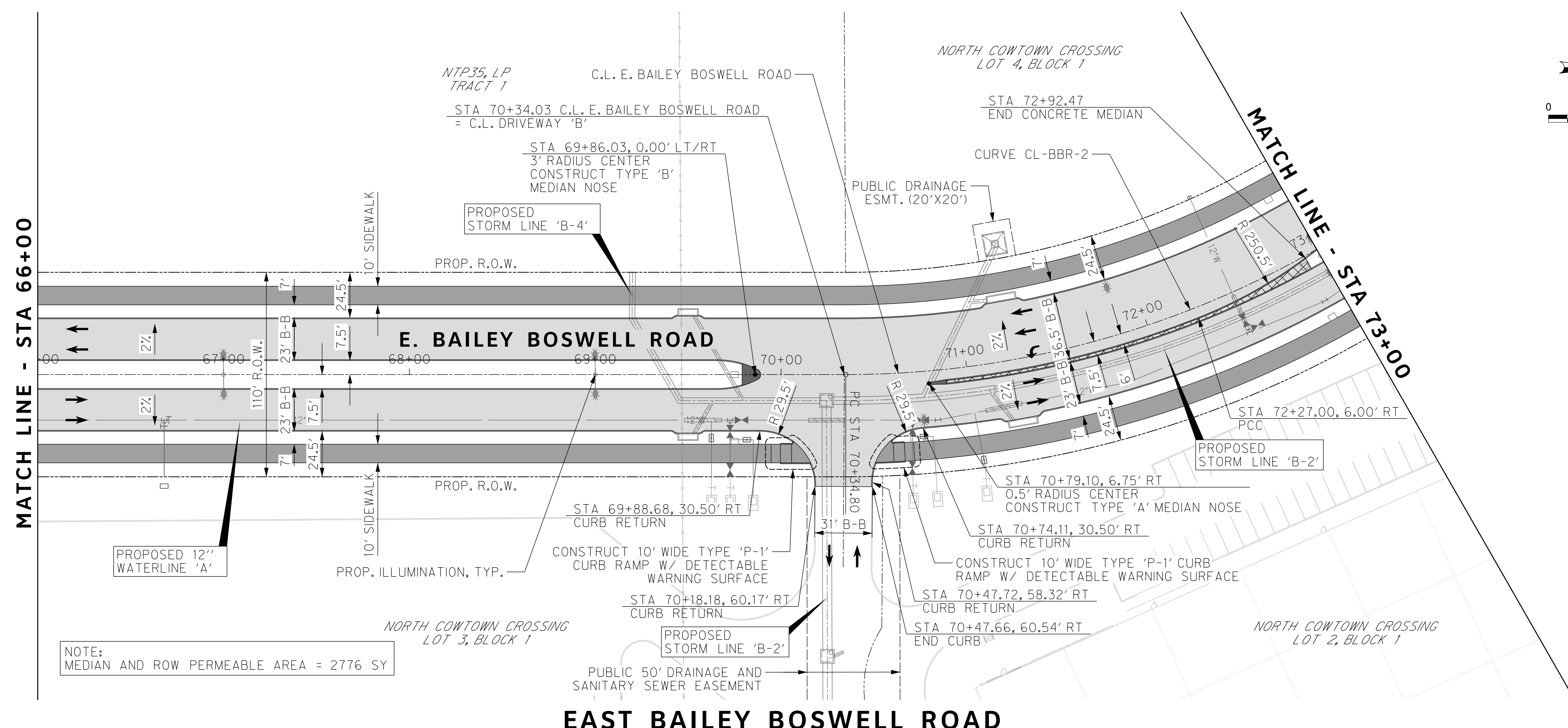
CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
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DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
PAVING
 STA 66+00 TO STA 73+00

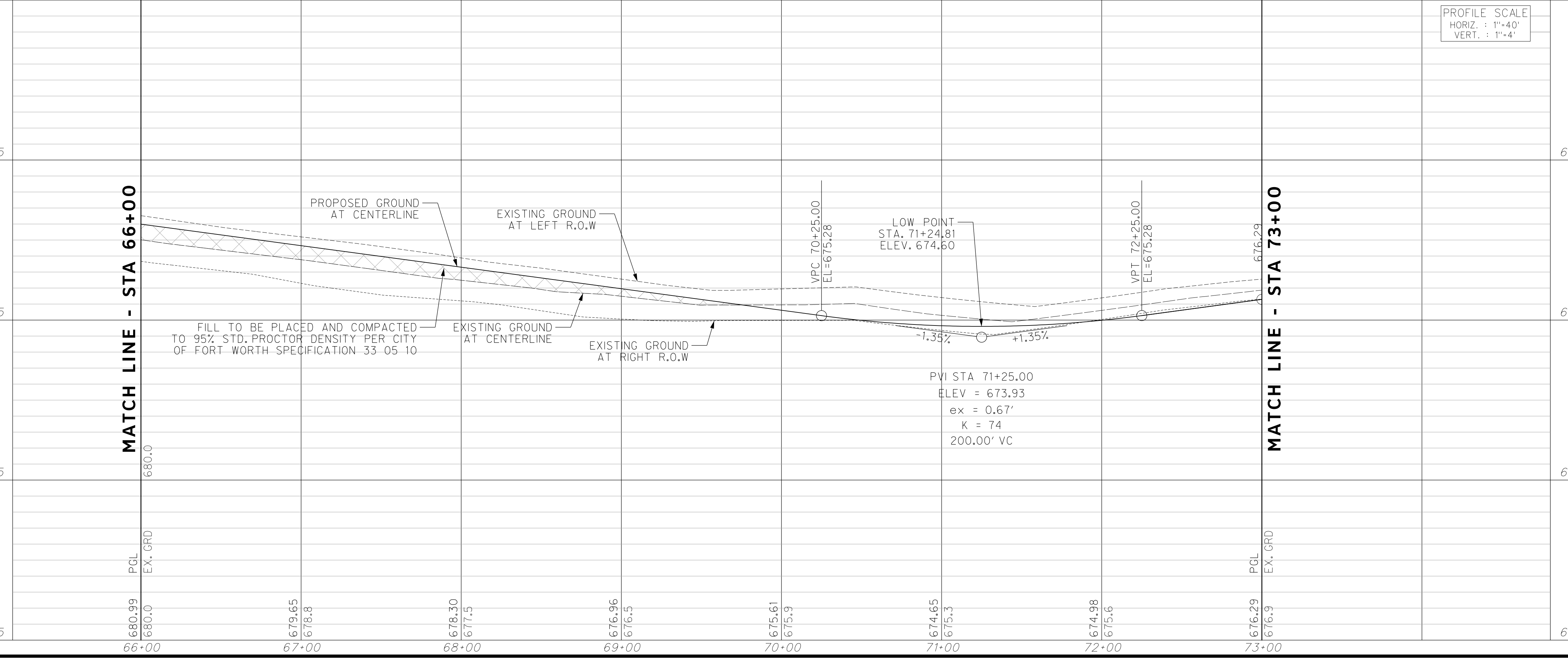
PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 57 OF 189
DRAWN: PTS			



NOTE:
 MEDIAN AND ROW PERMEABLE AREA = 2776 SY

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



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REVISIONS		
No.	DESCRIPTION	DATE
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- ### PAVING LEGEND
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 - PROPOSED TRAFFIC LANE
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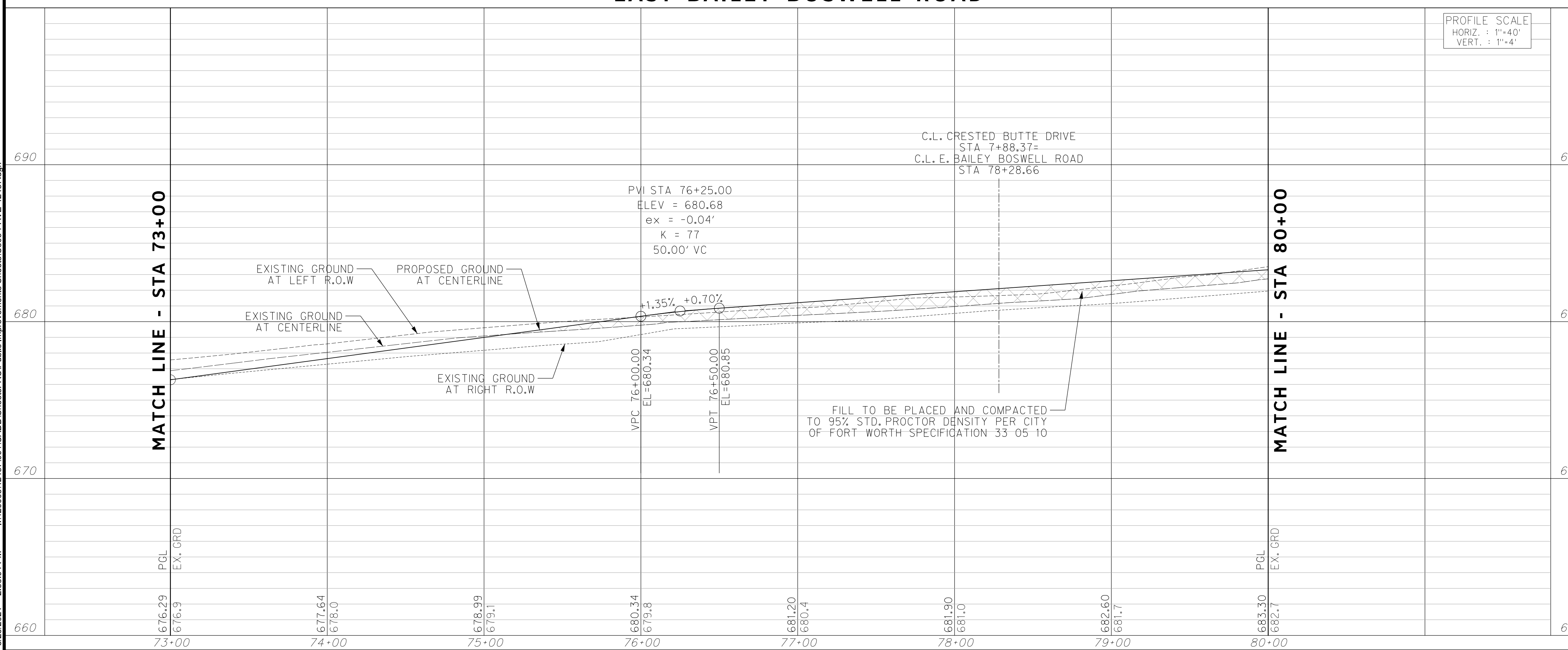
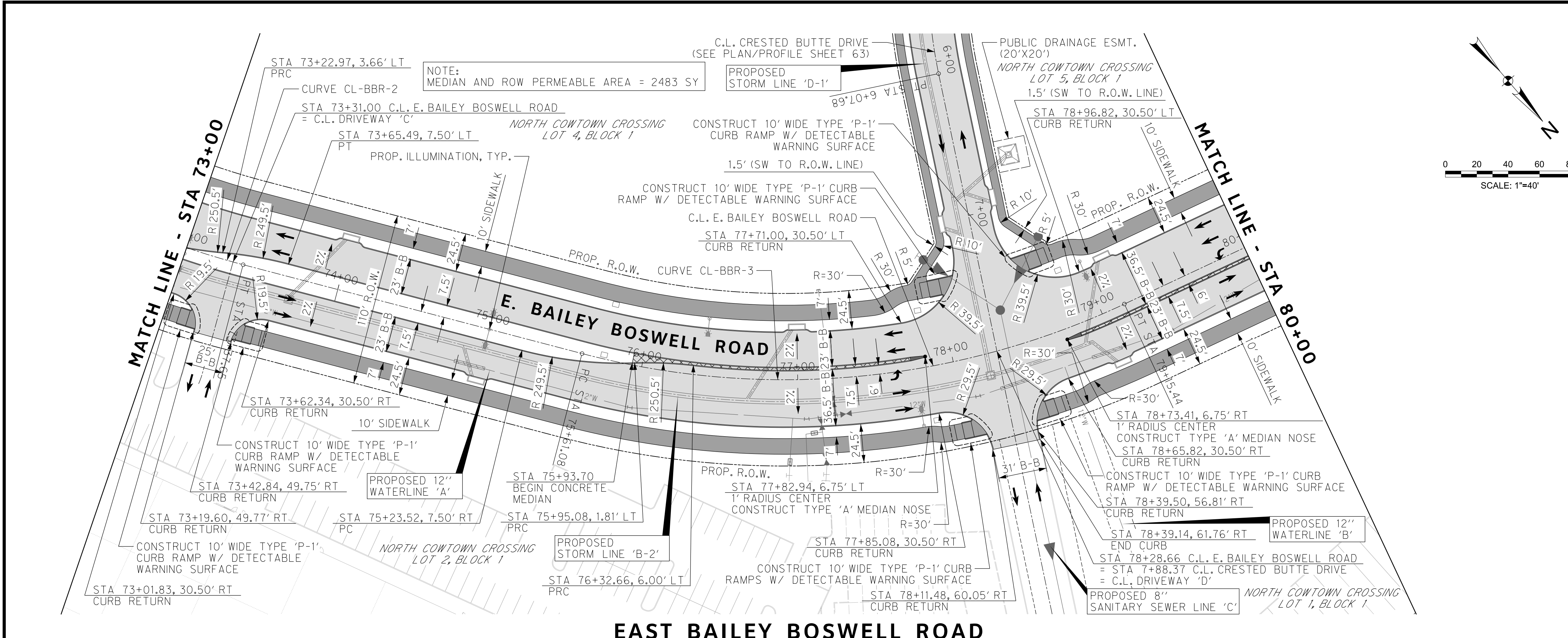
DOE # K-2840
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 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
PAVING
 STA 73+00 TO STA 80+00

PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 58 OF 189
DRAWN: PTS			



REVISIONS

No.	DESCRIPTION	DATE
1		
2		
3		



PAVING LEGEND

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 FORT WORTH WATER DEPT.-FIELD OPERATIONS WATER (817) 925-2360
 FORT WORTH WATER DEPT.-FIELD OPERATIONS SANITARY SEWER (817) 223-7438
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 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

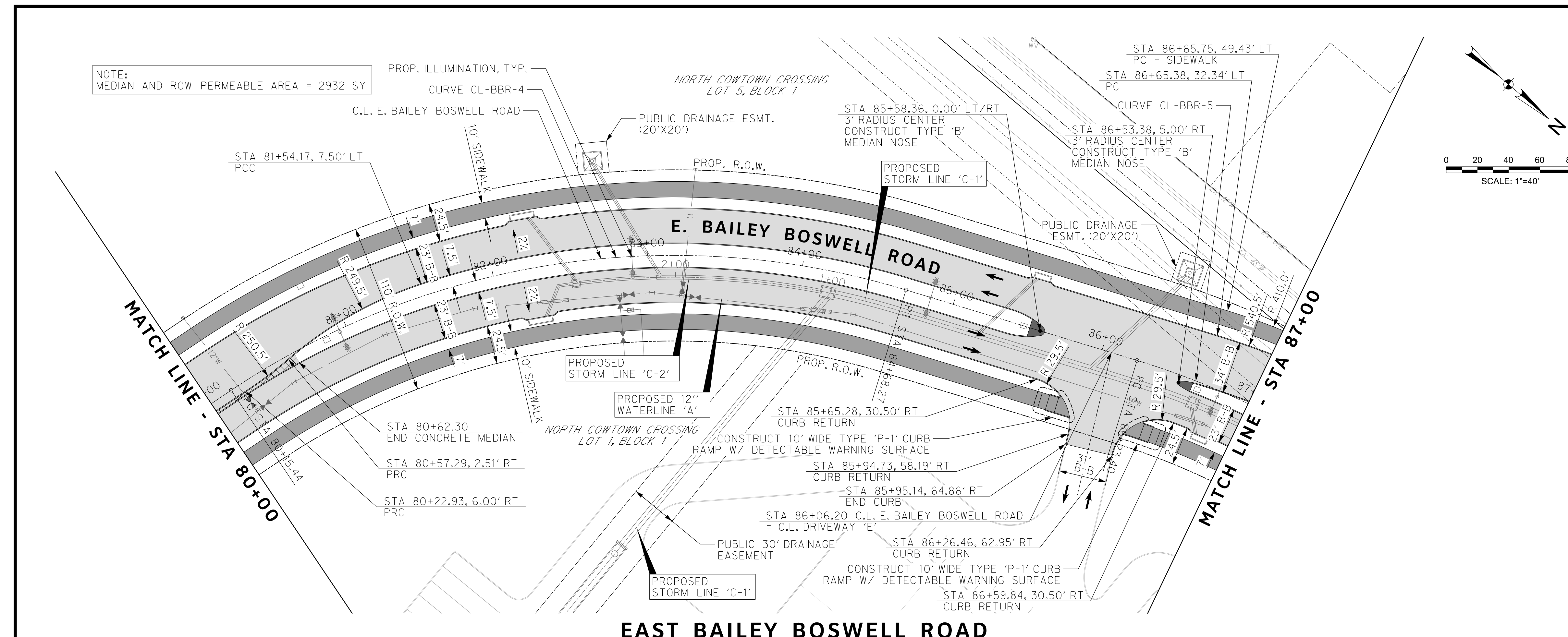
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SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
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E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

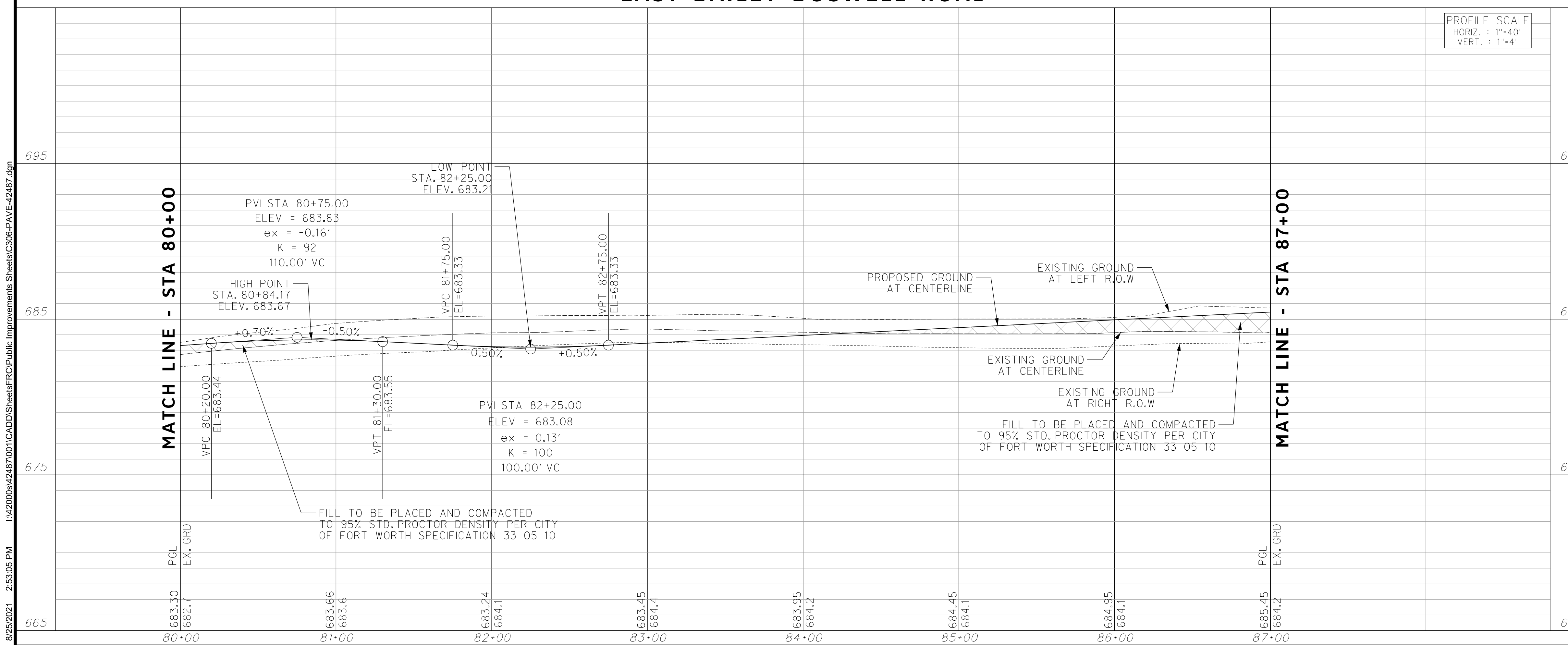
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
 EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD
PAVING
 STA 80+00 TO STA 87+00

PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 59 OF 189
DRAWN: PTS			



EAST BAILEY BOSWELL ROAD



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- PAVING LEGEND**
- PROPOSED 11" THICK CONCRETE PAVEMENT (4000 PSI) REINF. W/ #4 BARS @ 18" O.C.B.W. OVER 8" LIME STABILIZED SUBGRADE (6%)
 - PROPOSED 4" THICK CONCRETE SIDEWALK (3000 PSI) REINF. W/ #3 BARS @ 18" O.C.B.W.
 - PROPOSED MONOLITHIC MEDIAN NOSE
 - PROPOSED CONCRETE MEDIAN
 - PROPOSED TRAFFIC LANE
 - EXISTING TRAFFIC LANE
 - SAWCUT/PAVEMENT REMOVAL LIMIT

NOTES:
 1. CONTRACTOR TO INSTALL EXPANSION JOINTS AT ALL PC AND PT LOCATIONS.
 2. SEE GRADING PLAN FOR ROADWAY CROSS SLOPES AT INTERSECTIONS.



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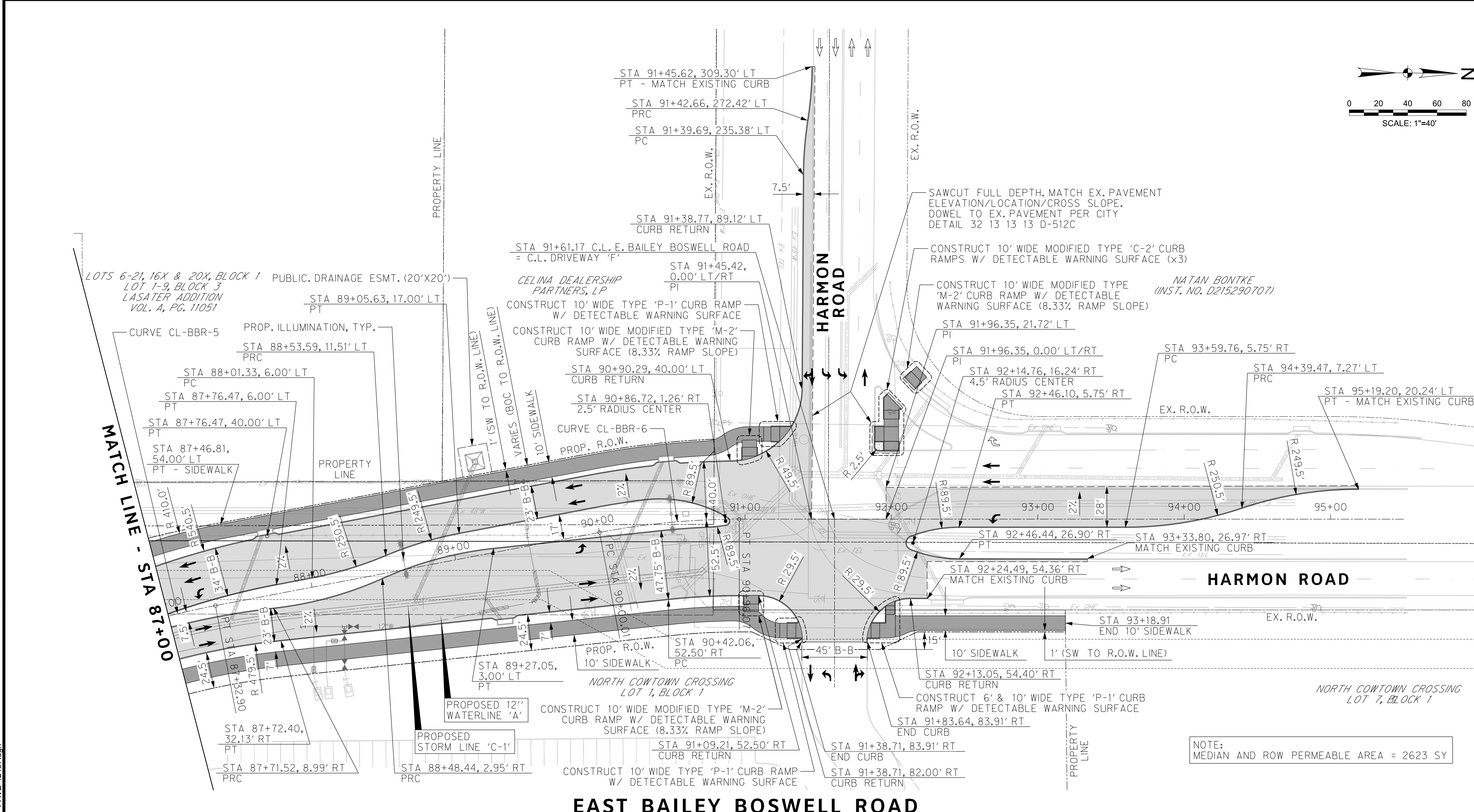
**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES**

**TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

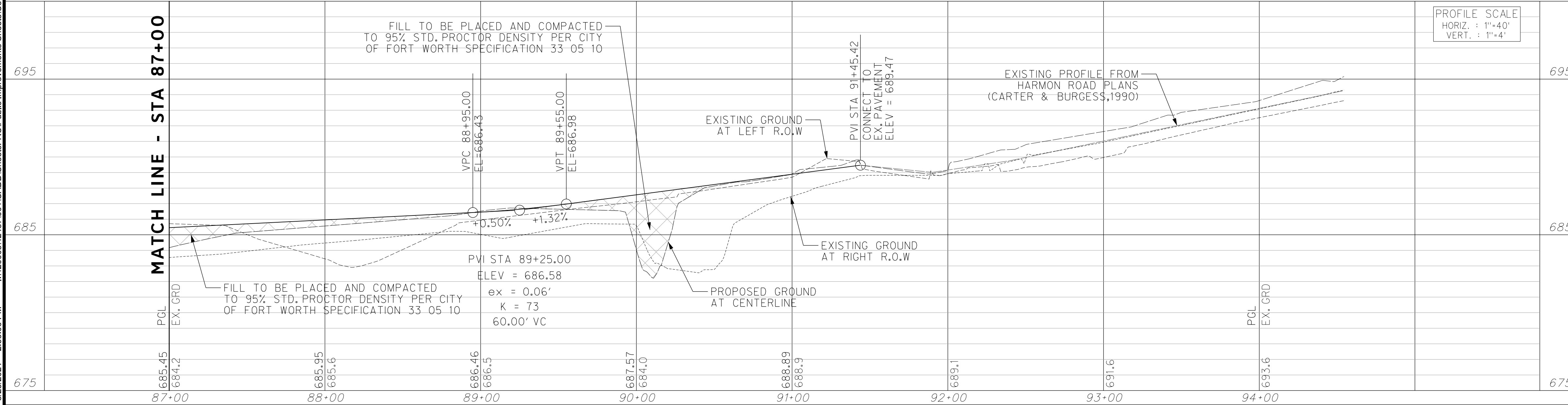
**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 PAVING
 STA 87+00 TO END**

PLAN & PROFILE

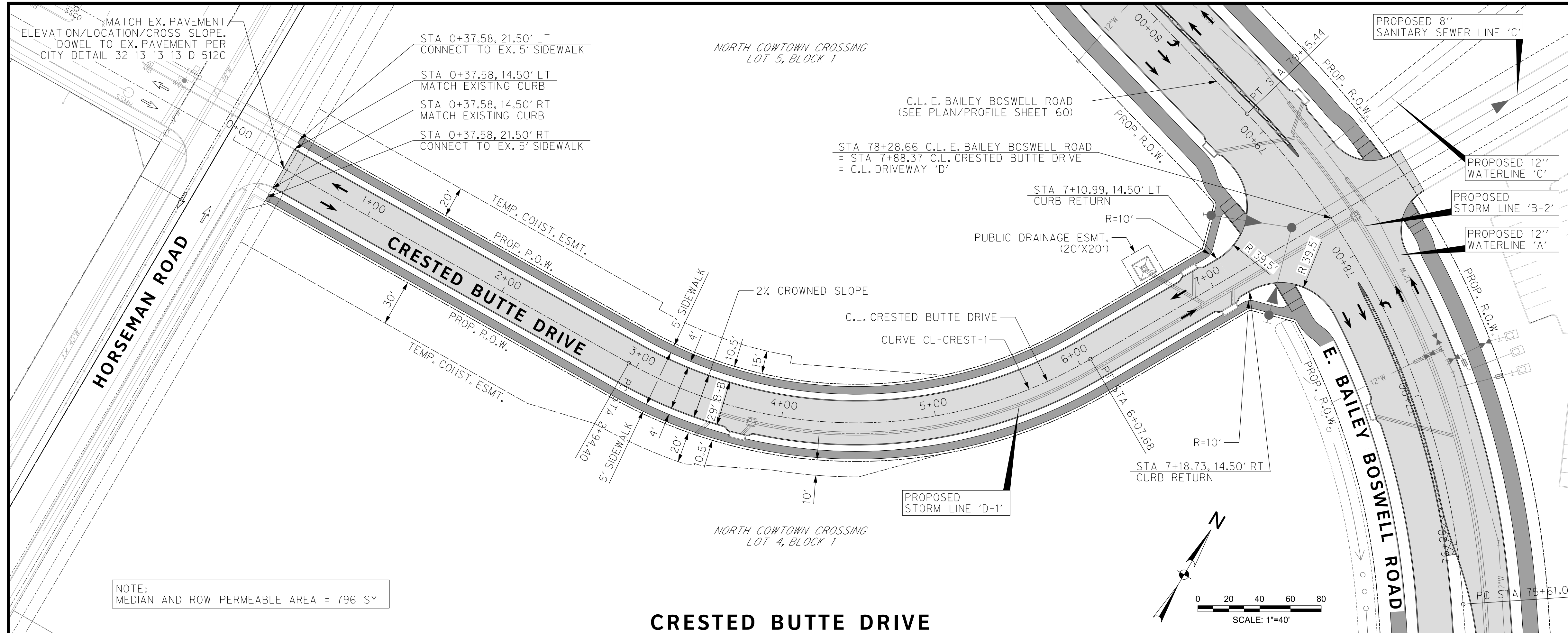
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DRAWN: PTS			



EAST BAILEY BOSWELL ROAD



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- PAVING LEGEND**
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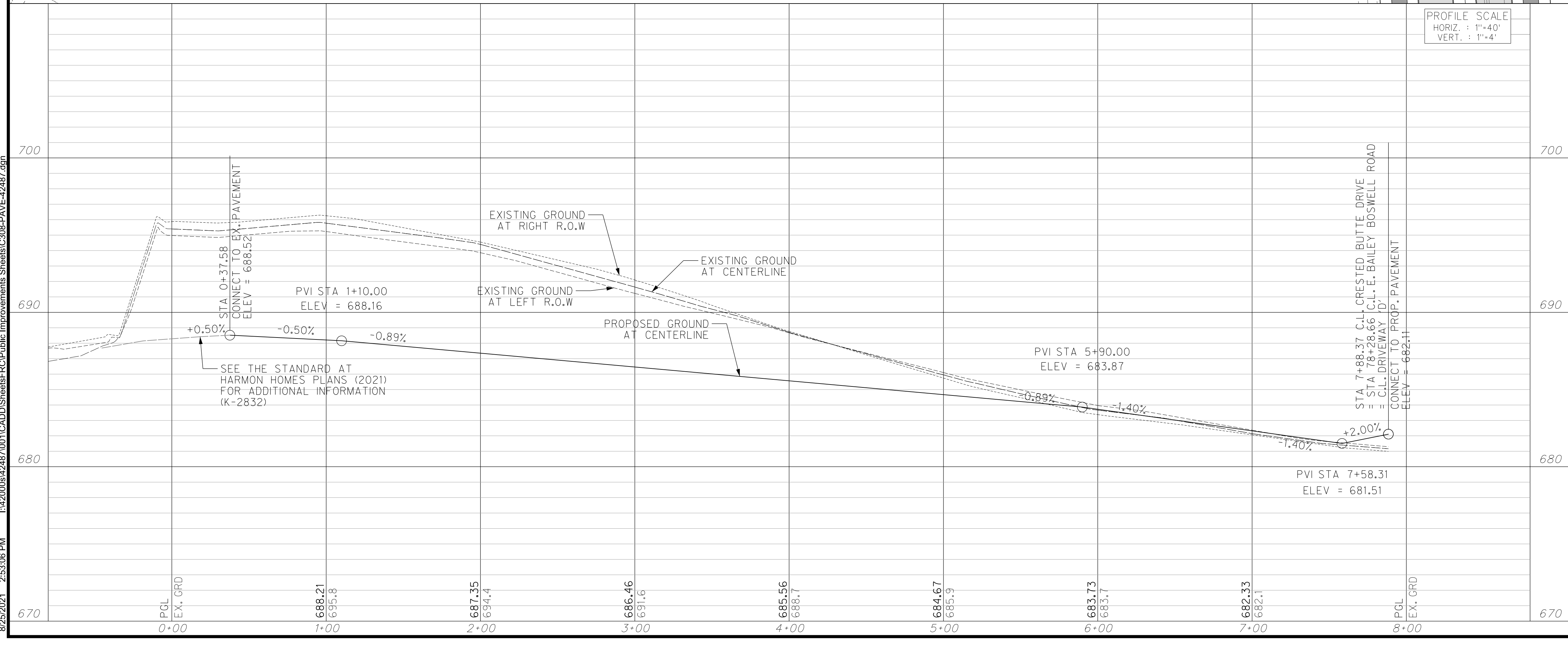
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

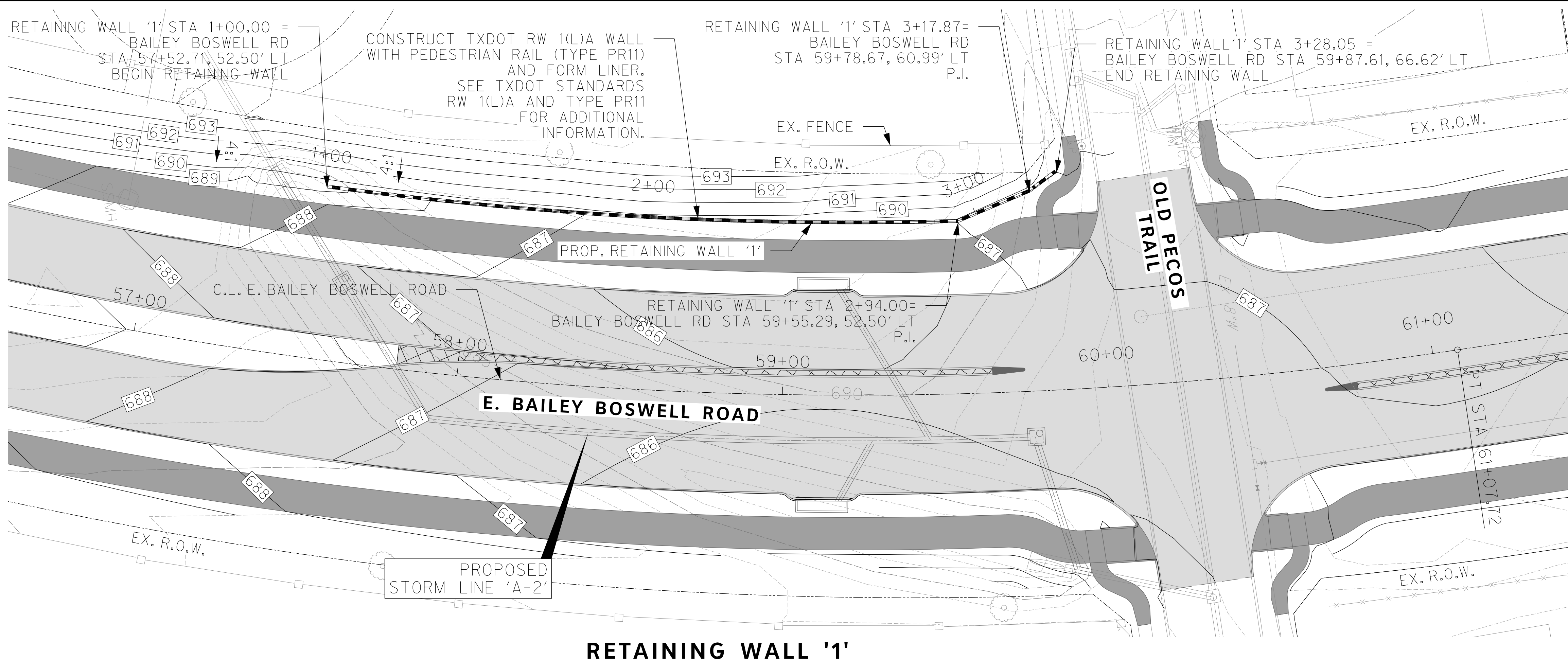
EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD
PAVING
CRESTED BUTTE DRIVE

PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 61 OF 189
DRAWN: PTS			

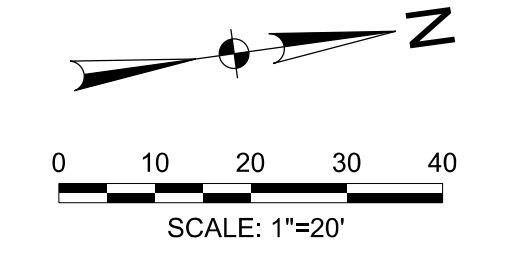


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RETAINING WALL '1'

REVISIONS		
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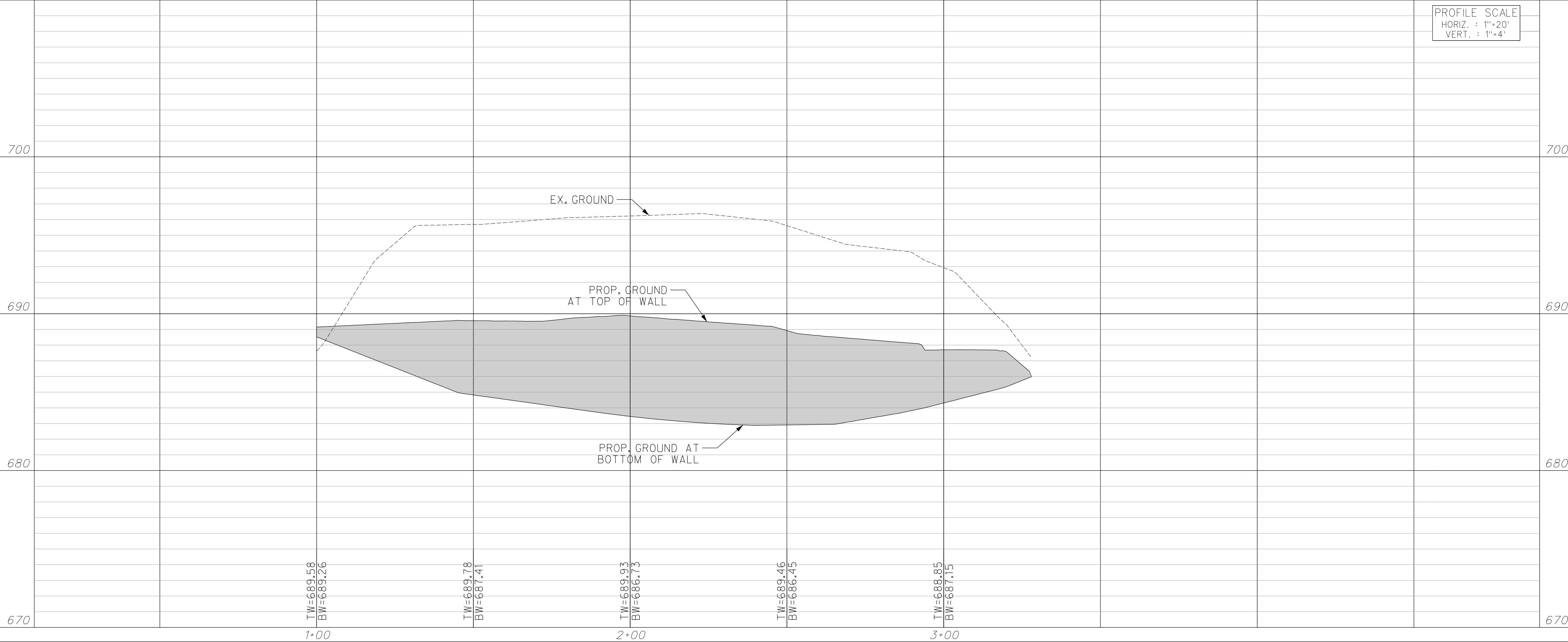
CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD
RETAINING WALL '1'

PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=20'	DATE: 06/08/2021	SHEET 62 OF 189
DRAWN: PTS			



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REVISIONS

No.	DESCRIPTION	DATE
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E: 2327333.06	E: 2327011.03	E: 2327060.00
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DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO.
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT
 SERVICES

TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
REMOVAL DETAILS
 (SHEET 1 OF 1)

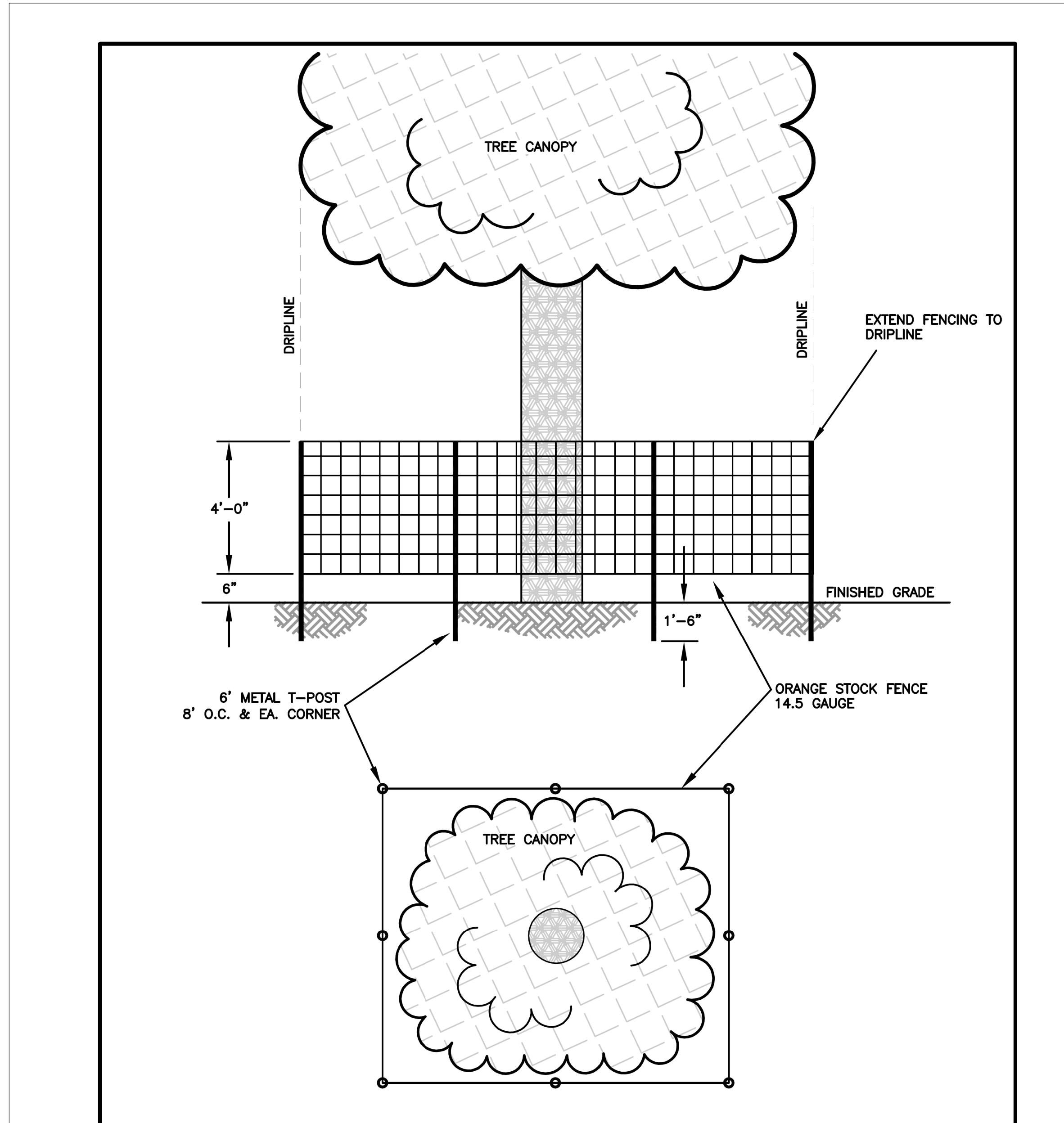
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DRAWN: PTS	N.T.S.	06/08/2021	65 OF 189

NOTES:

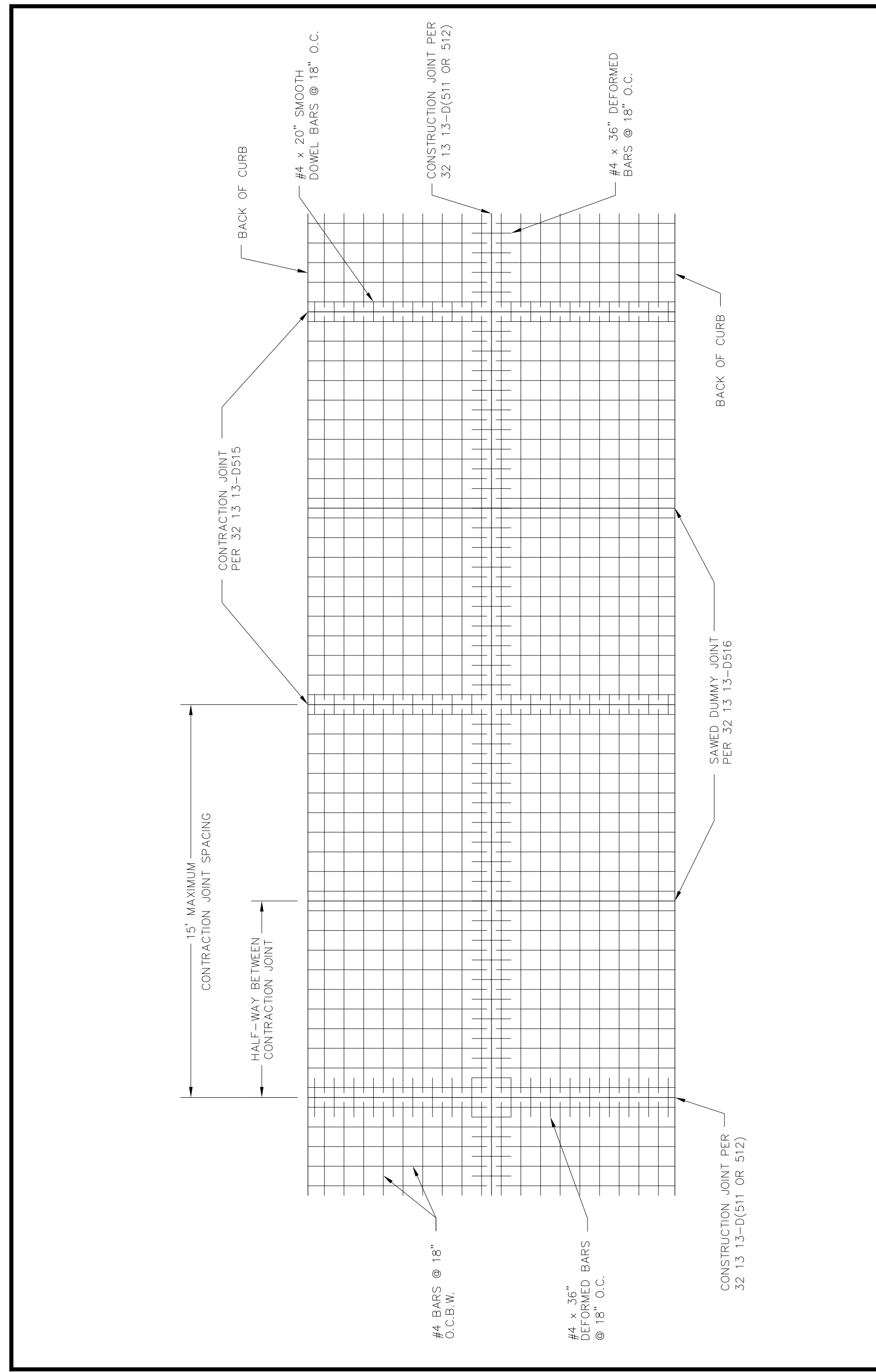
- 1) PROTECTIVE TREE FENCING INSTALLED AT THE TREE DRIPLINE.
- 2) PROTECTIVE TREE FENCING TO BE PUT IN PLACE BEFORE GRADING/CONSTRUCTION BEGINS AND REMAIN UNTIL COMPLETION OF THE PROJECT.
- 3) PROTECTIVE TREE FENCING TO BE INSPECTED BY THE CITY FORESTER BEFORE GRADING/CONSTRUCTION BEGINS. PROVIDE 48-HRS MINIMUM NOTICE TO 817-392-5738 AND/OR CITYTREEPERMITS@FORTWORTHTXAS.GOV.
- 4) BILINGUAL SIGN ON PROTECTIVE FENCING IN ENGLISH AND SPANISH THAT READS, "KEEP OUT, TREE PROTECTION AREA".
- 5) NO ENTRY, GRADING, EXCAVATION, PARKING OR STORING OF EQUIPMENT OR SUPPLIES INSIDE THE PROTECTIVE TREE FENCING WITHOUT CITY FORESTER APPROVAL.
- 6) ALL WORK INSIDE PROTECTIVE TREE FENCING TO BE DONE BY HAND, UNLESS PRIOR APPROVAL GIVEN BY CITY FORESTER, 817-392-5738.
- 7) ROOTS 2" OR LARGER SHALL BE CLEAN CUT WITH A SAW, AND ALL CUTS ON OAK TREES, INCLUDING ROOTS, SHALL BE PAINTED WITH AN APPROVED WOUND DRESSING LIKE LATEX PAINT WITHIN 30 MINUTES OF EXPOSURE TO MITIGATE OAK WILT SPREAD.
- 8) INCLUDE P.A.R.D. DAMAGE ASSESSMENT FOR R.O.W. TREES (SEE BELOW).

PARD ASSESSMENT OF DAMAGES TO ROW TREES

- 1.1. THE CONTRACTOR WILL CHECK TREES IN THE CONTRACT AREA BEFORE CONTRACT WORK BEGINS, ANY DAMAGE WILL BE NOTED AND REPORTED TO THE CONTRACT ADMINISTRATOR.
- 1.2. THE CONTRACT ADMINISTRATOR WILL CONDUCT RANDOM CHECKS OF THE TREES DURING THE CONTRACT PERIOD.
- 1.3. A CHECK OF ALL TREES MAY BE MADE AT THE END OF THE CONTRACT PERIOD. CITY FORESTER, CONTRACT ADMINISTRATOR, AND CONTRACTOR WILL ATTEND THE INSPECTION.
- 1.4. DAMAGES SHALL BE DOCUMENTED BY MEMO TO THE CITY FORESTER WITH COPY TO CONTRACT FILE AND THE CONTRACTOR.
- 1.5. CONTRACTOR MAY HAVE THE OPTION OF REPLACEMENT OR PAYMENT FOR SEVERELY DAMAGED TREES AT A LOCATION TO BE DESIGNATED BY PARD. REPLACEMENT SHALL BE MADE ON A CALIPER INCH PER CALIPER INCH BASIS WITH A MINIMUM SIZE OF REPLACEMENT TREE OF 2" IN CALIPER FOR TREES DAMAGED OR REMOVED WHICH ARE LESS THAN 30" DBH AND 2" PER INCH FOR TREES WHICH ARE 30" DBH OR GREATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLANTING, WATERING, MULCHING AND MAINTENANCE OF REPLACEMENT TREES FOR A PERIOD OF NOT LESS THAN 2 YEARS. ANY TREE THAT DOES NOT SURVIVE THE 2 YEAR ESTABLISHMENT PERIOD SHALL BE COMPENSATED FOR BY THE CONTRACTOR TO PARD TREE FUND AT A RATE OF \$200 PER CALIPER INCH.
- 1.6. SLIGHT DAMAGE SHALL BE DEFINED, IN THE OPINION OF THE CITY FORESTER, AS DAMAGE THAT MAY HEAL. EXAMPLES INCLUDE BUT ARE NOT LIMITED TO: SCARING OF THE TRUNK INTO THE CAMBIAL LAYER 1/2" TO 2" IN WIDTH, BUT LESS THAN 1/3 TRUNK CIRCUMFERENCE; OR BREAKING OF LIMBS LESS THAN 2" IN DIAMETER OR LIMBS LESS THAN 1/3 TRUNK CALIPER, WHICHEVER IS LESS. SLIGHT DAMAGE SHALL ALSO INCLUDE: REMOVAL OR LAYING DOWN OF PROTECTIVE TREE FENCING PRIOR TO END OF CONSTRUCTION; STORING EQUIPMENT OR SUPPLIES WITHIN THE CRITICAL ROOT ZONE (CRZ); OR DISPOSING OF PAINT OR CONCRETE WITHIN THE CRZ, BUT NOT CLOSER TO THE TRUNK THAN 50% RADIUS OF THE CRZ. SLIGHT DAMAGE TO TREES SHALL BE ASSESSED AT A RATE OF \$100.00 FOR EACH INSTANCE. EACH DAY TREE FENCING IS NOT PROPERLY PLACED, EQUIPMENT OR SUPPLIES ARE STORED WITHIN CRZ, OR FILL IS STORED WITHIN THE CRZ SHALL BE CONSIDERED ONE INSTANCE.
- 1.7. MODERATE DAMAGE SHALL BE DEFINED, IN THE OPINION OF THE CITY FORESTER, AS DAMAGE THAT CONTRIBUTES TO THE POOR HEALTH AND REDUCED LONGEVITY OF THE TREE. EXAMPLES INCLUDE, BUT ARE NOT LIMITED TO: SCARING OF THE TRUNK INTO THE CAMBIAL LAYER GREATER THAN 2", BUT LESS THAN 1/3 THE TRUNK CIRCUMFERENCE; OR BREAKING OF LIMBS MORE THAN 2" IN DIAMETER, BUT LESS THAN 1/3 TRUNK CALIPER. MODERATE DAMAGE SHALL ALSO INCLUDE: COMPACTION OF SOIL; GRADING OR FILLING IN 20% OF THE CRZ ON 1 OF 4 SIDES, BUT OUTSIDE THE 50% RADIUS OF THE CRZ; OR DISPOSING OF PAINT OR CONCRETE WITHIN 50% RADIUS OF THE CRZ. MODERATE DAMAGES SHALL BE CALCULATED AT A RATE OF * THE ASSESSED VALUE OF THE TREE PER EACH INSTANCE OF DAMAGE.
- 1.8. SEVERE DAMAGE OR REMOVAL OF TREES IS SUBJECT TO PENALTY OF \$200 PER DIAMETER INCH OF TREES REMOVED OR DAMAGED FOR TREES LESS THAN 30" DBH OR \$400 PER DIAMETER INCH FOR TREES 30" DBH OR GREATER. SEVERE DAMAGE OR REMOVAL SHALL INCLUDE, BUT IS NOT LIMITED TO: SCARING OF THE TRUNK TO THE CAMBIAL LAYER GREATER THAN 1/3 THE TRUNK CIRCUMFERENCE; UPROOTING OR CAUSING A TREE TO LEAN; OR DAMAGE TO A SCAFFOLDING BRANCH OR ANY BRANCH GREATER THAN 1/3 OF TRUNK CALIPER. SEVERE DAMAGE SHALL ALSO INCLUDE: COMPACTION OF SOIL, GRADING OR FILLING MORE THAN 20% OF THE CRZ, OR WITHIN 50% RADIUS OF THE CRZ, OR ON MORE THAN ONE OF 4 SIDES. CUTTING 1/3 OF THE BUTTRESS ROOTS WITHIN 3 TIMES THE DISTANCE OF THE DBH OF THE TRUNK, OR CUTTING 4 ROOTS 4" OR GREATER IN DIAMETER WITHIN 4' OF THE TRUNK SHALL ALSO BE CONSIDERED SEVERE DAMAGE.
- 1.9. BRANCHES SHALL BE MEASURED AT THE POINT OF ATTACHMENT OR AT THE LATERAL TO WHICH THE BRANCH WOULD BE PRUNED BACK TO ACCORDING TO ANSI STANDARDS. TREES CALIPER SHALL BE MEASURED ACCORDING TO ACCEPTED INDUSTRY STANDARDS. TREES GREATER THAN 6" IN CALIPER SHALL BE MEASURED USING DIAMETER AT BREST HEIGHT (DBH). TREES THAT MUST BE REMOVED DUE TO DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REMOVED BY THE FORESTRY SECTION'S TREE REMOVAL CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- 1.10. ALL DAMAGES SHALL BE PAID TO THE CITY TREE FUND. FAILURE TO REPLACE OR PAY FOR DAMAGED TREES SHALL RESULT IN A BREACH OF CONTRACT AND THE CONTRACTOR WILL BE AUTOMATICALLY ASSESSED DAMAGES. DAMAGES AS DESCRIBED HEREIN SHALL BE DEDUCTED FROM PAYMENTS OTHERWISE DUE TO THE CONTRACTOR.
- 1.11. INFORMATIONAL ITEM AND CONTACT: CHAPTER 33 OF THE CITY CODE GIVES THE CITY FORESTER, WHO IS BASED OUT OF THE PARK & RECREATION DEPARTMENT, JURISDICTION OVER ALL CITY-OWNED TREES, WHICH INCLUDES THE STREET ROW AND CITY PARKLAND. OUR PLANTING, PRUNING AND REMOVAL PERMIT PROCESS IS HANDLED SEPARATELY FROM THAT OF URBAN FORESTRY AND IS IN ADDITION TO ANY URBAN DESIGN DISTRICT REQUIREMENTS/PROCESSES, WHICH ARE PART OF THE ZONING ORDINANCE AND ARE REVIEWED BY PLANS EXAMINERS IN THE DEVELOPMENT SERVICES DEPARTMENT FOR COMPLIANCE WITH THE ZONING REQUIREMENTS. CONTACT: CITYTREEPERMITS@FORTWORTHTXAS.GOV (EMAIL) OR 817-392-5738 (PHONE).



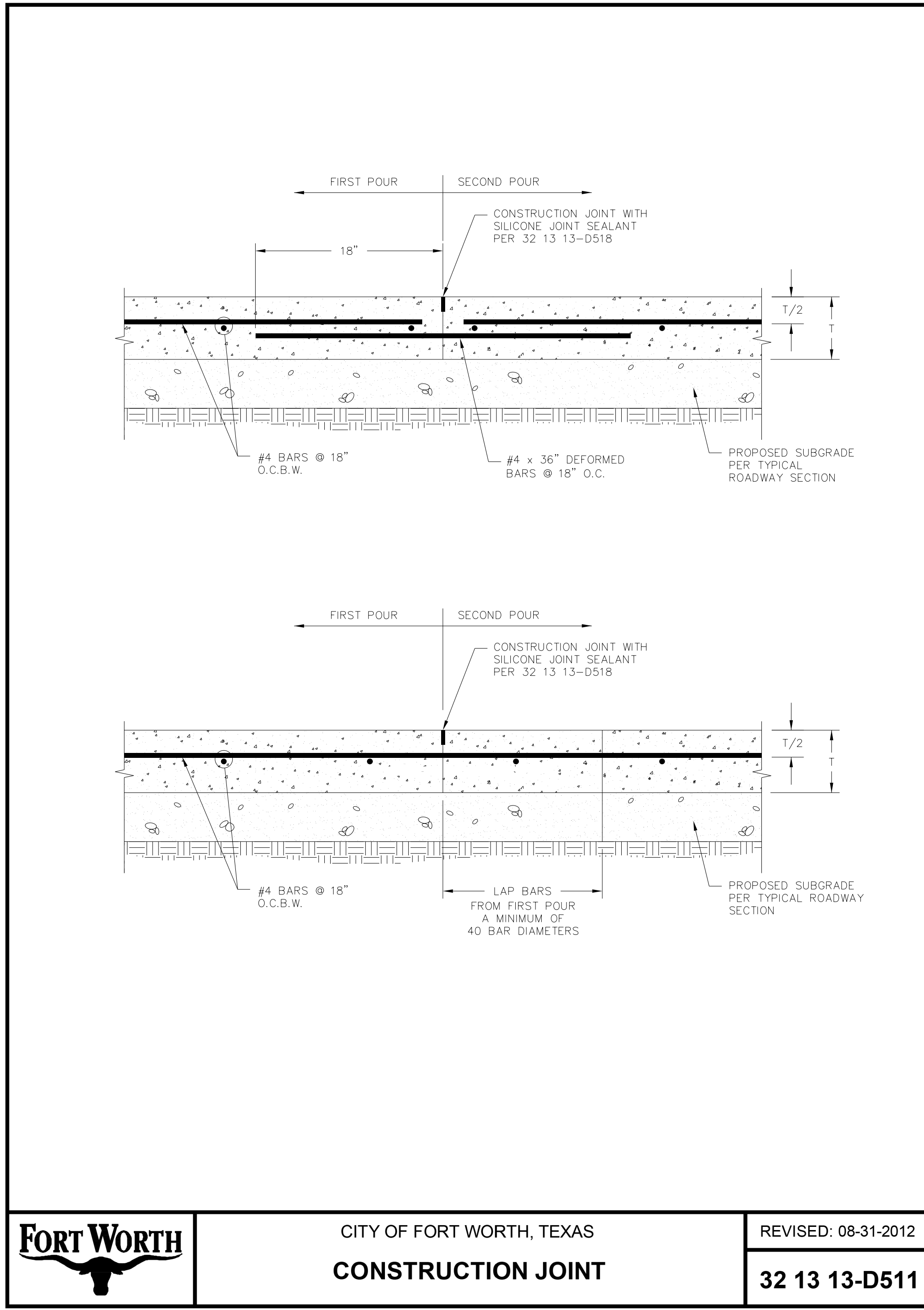
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CITY OF FORT WORTH, TEXAS
PAVEMENT STEEL REINFORCING
GENERAL LAYOUT

REVISED: 08-31-2012
32 13 13-D508

FORT WORTH



FORT WORTH

CITY OF FORT WORTH, TEXAS
CONSTRUCTION JOINT

REVISED: 08-31-2012
32 13 13-D511

REVISIONS		
NO.	DESCRIPTION	DATE
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 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL		
CONTROL POINT #105 SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	CONTROL POINT #109 SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	CONTROL POINT #314 SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97
DOE # CITY PROJECT # 103320 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXX WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXX SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXX MAP NO. XXXX-XXX		K-2840 MAPSCO NO. 119E AND 119F

CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

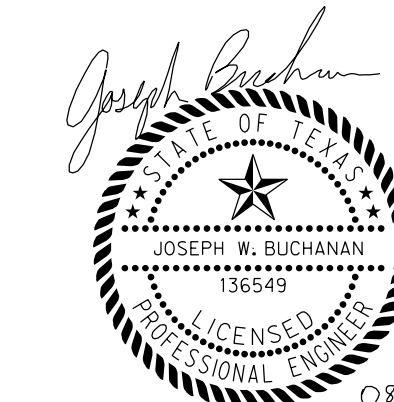
EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
CONCRETE PAVING DETAILS
 (SHEET 1 OF 10)

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 66 OF 189
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REVISIONS

No.	DESCRIPTION	DATE
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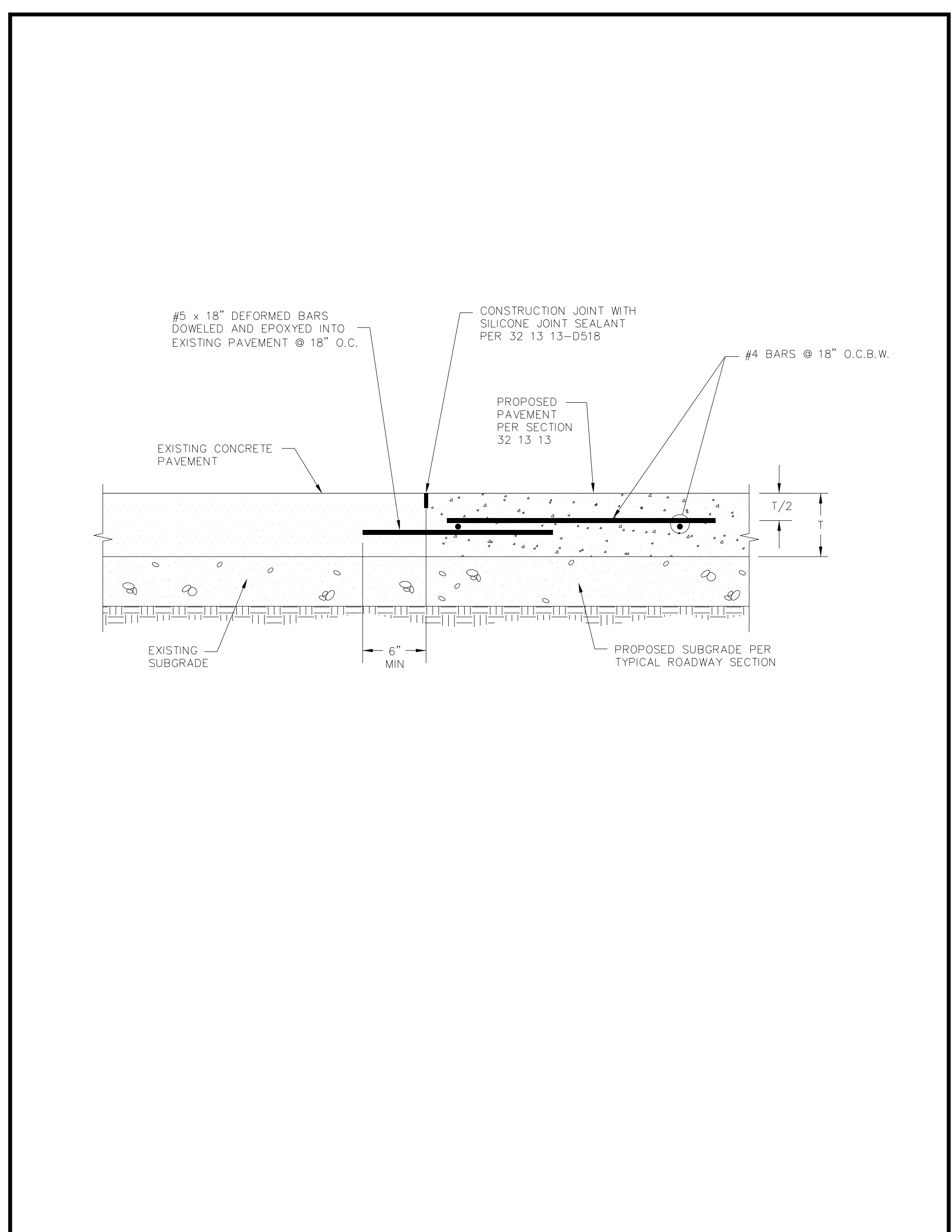
CONSTRUCTION NOTES

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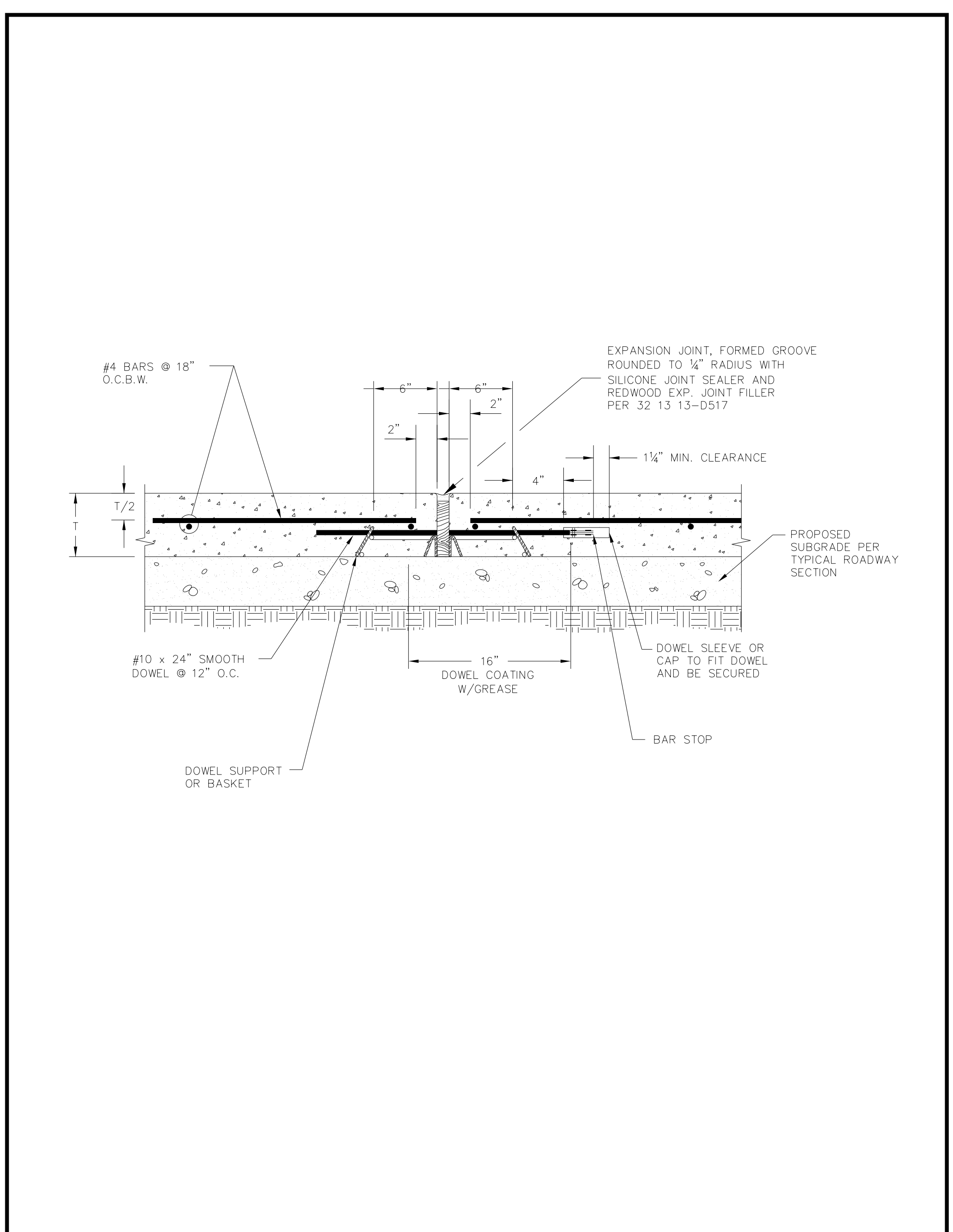
HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97

DOE # _____ K-2840
 CITY PROJECT # 103320 MAPSCO NO. _____
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX



	CITY OF FORT WORTH, TEXAS CONSTRUCTION JOINT (BETWEEN EXISTING AND PROPOSED PAVEMENT)	REVISED: 08-31-2012
		32 13 13-D512



	CITY OF FORT WORTH, TEXAS EXPANSION JOINT	REVISED: 08-31-2012
		32 13 13-D513

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

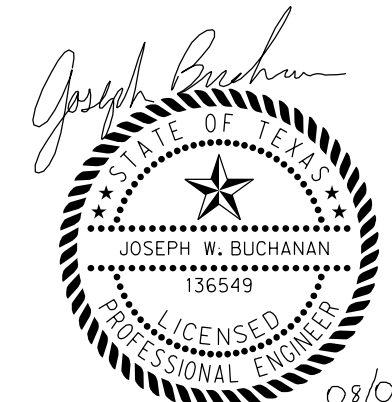
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
CONCRETE PAVING DETAILS
 (SHEET 2 OF 10)

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 67 OF 189
DRAWN: PTS			

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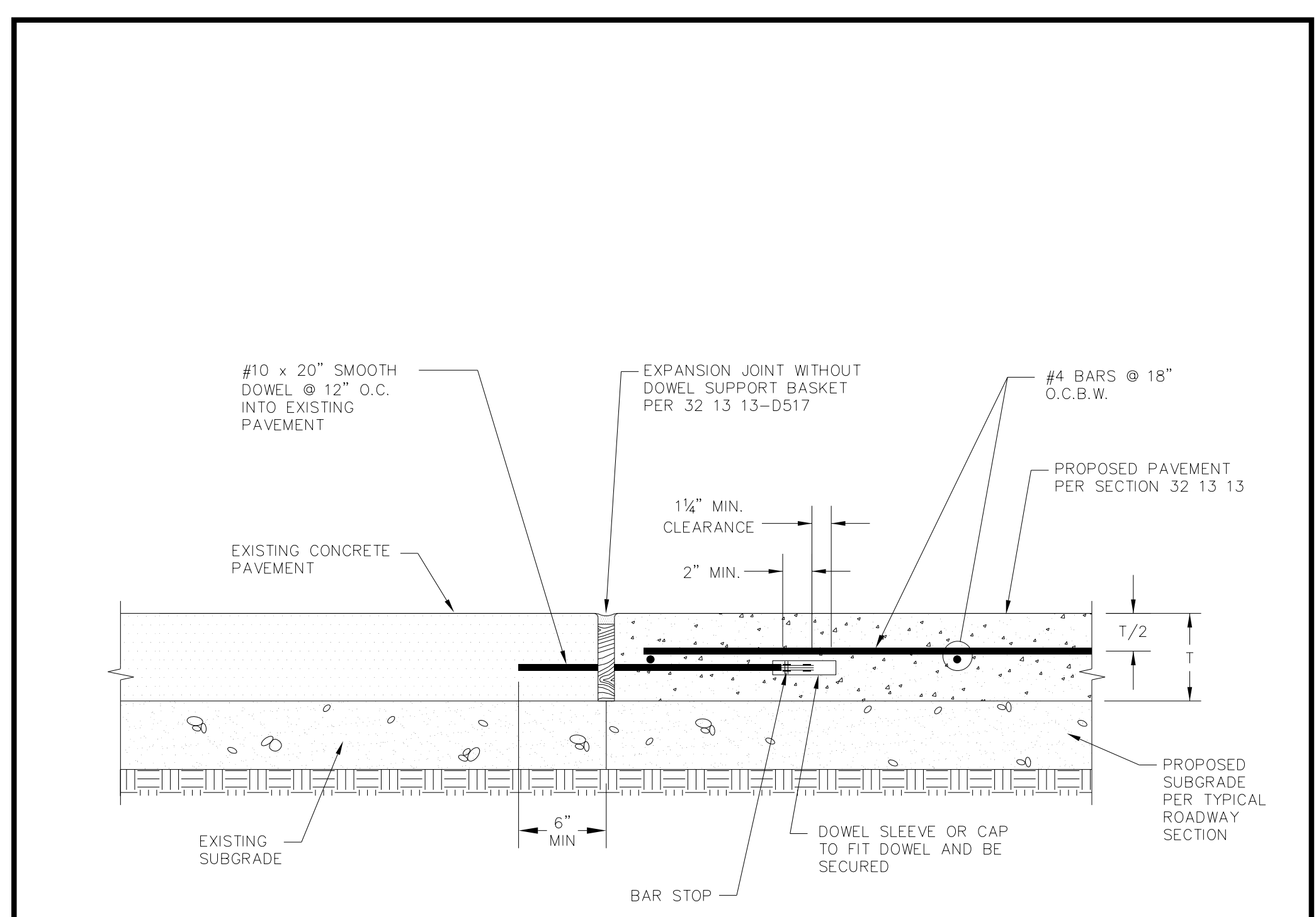
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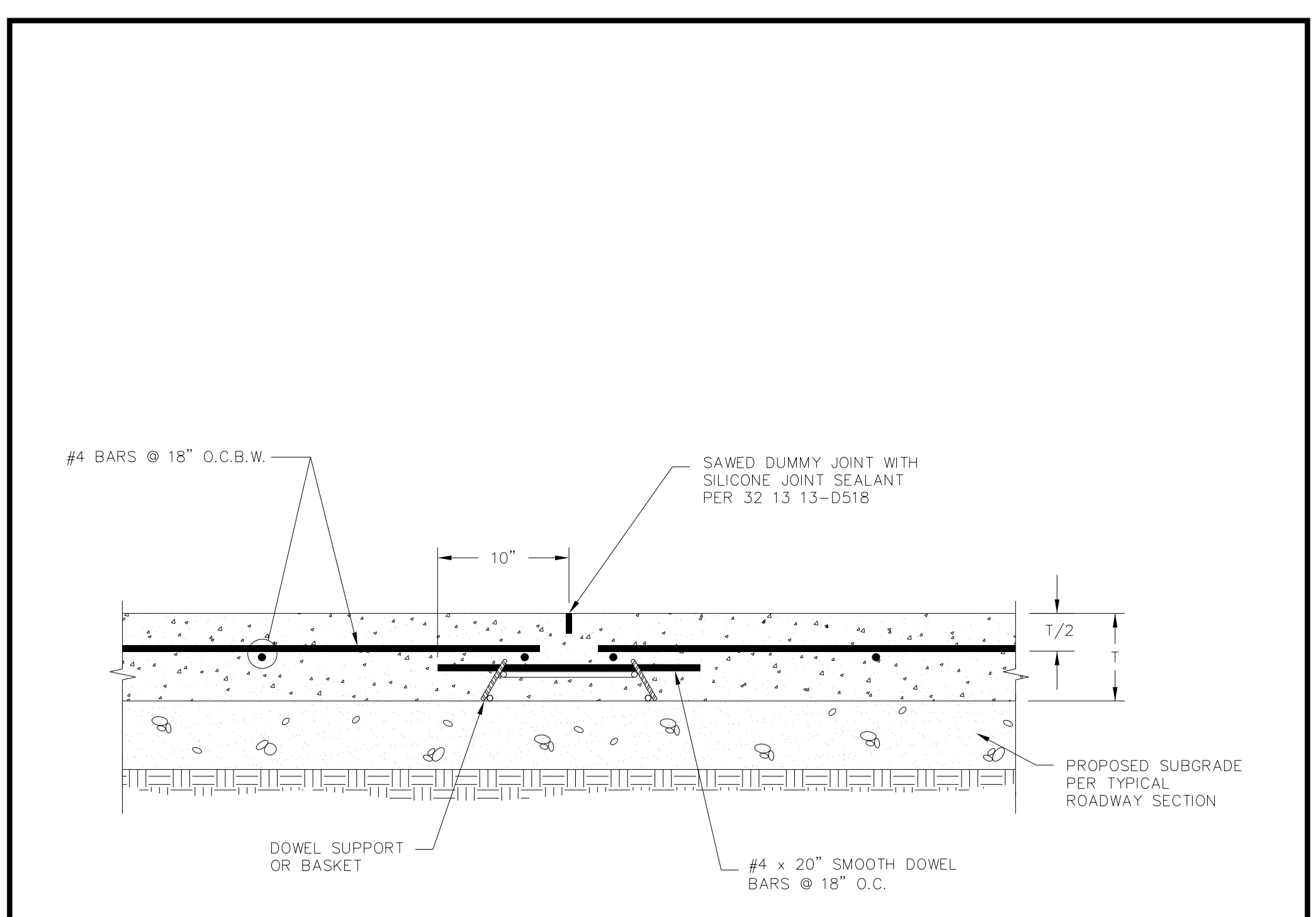
HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
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DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO.
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX



	CITY OF FORT WORTH, TEXAS EXPANSION CONSTRUCTION JOINT (BETWEEN EXIST AND PROP PAVEMENT)	REVISED: 08-31-2012
		32 13 13-D514



	CITY OF FORT WORTH, TEXAS CONTRACTION JOINT	REVISED: 08-31-2012
		32 13 13-D515

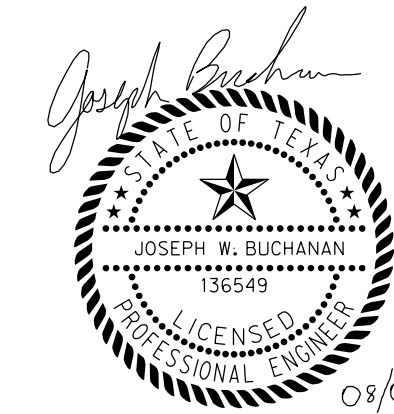
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
 EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
CONCRETE PAVING DETAILS
 (SHEET 3 OF 10)

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 68 OF 189
DRAWN: PTS			

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NO.	DESCRIPTION	DATE
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 SBC TELEPHONE (817) 338-6819
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 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

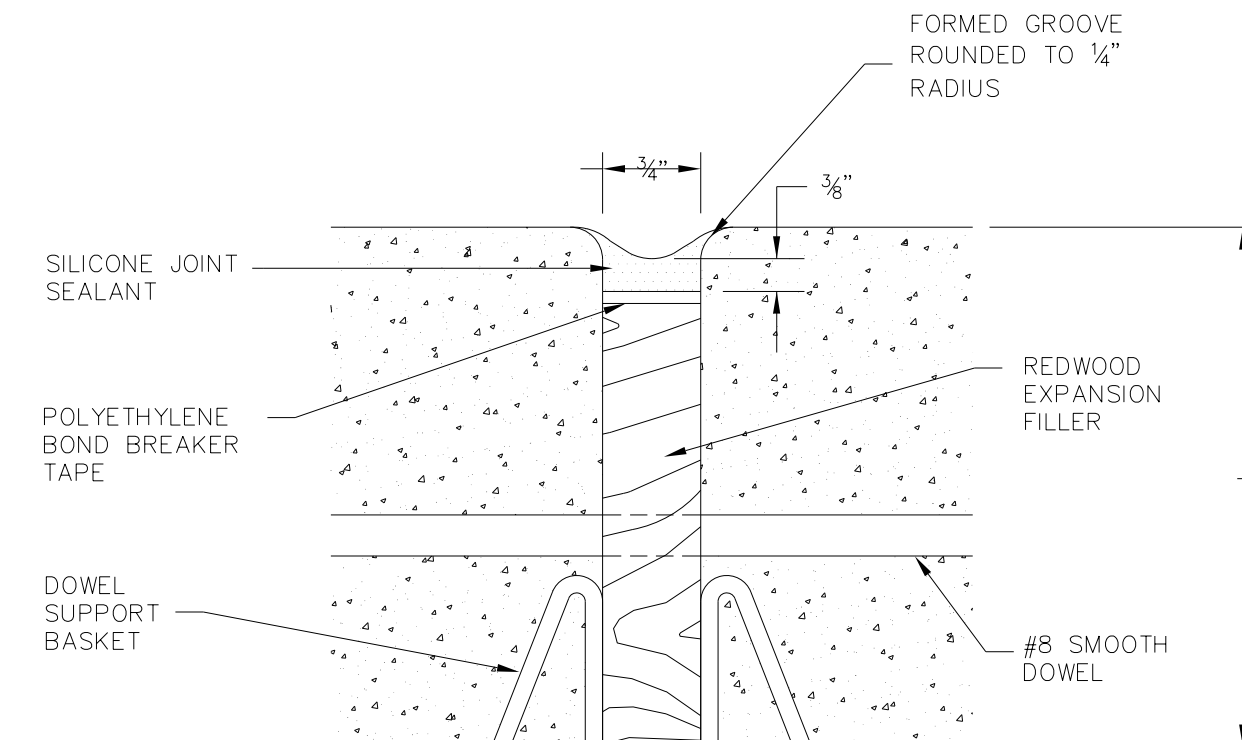
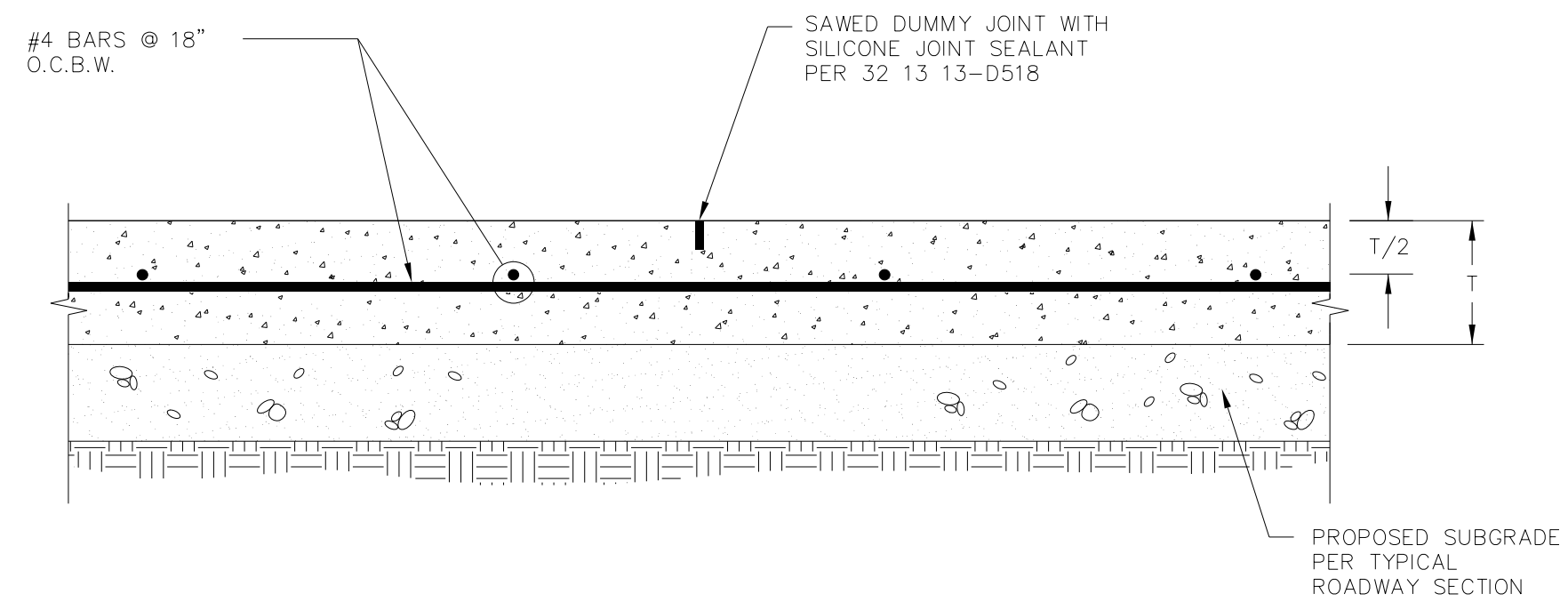
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO.
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
CONCRETE PAVING DETAILS
 (SHEET 4 OF 10)

DESIGNED: TMW	SCALE:	DATE:	SHEET
DRAWN: PTS	N.T.S.	06/08/2021	69 OF 189

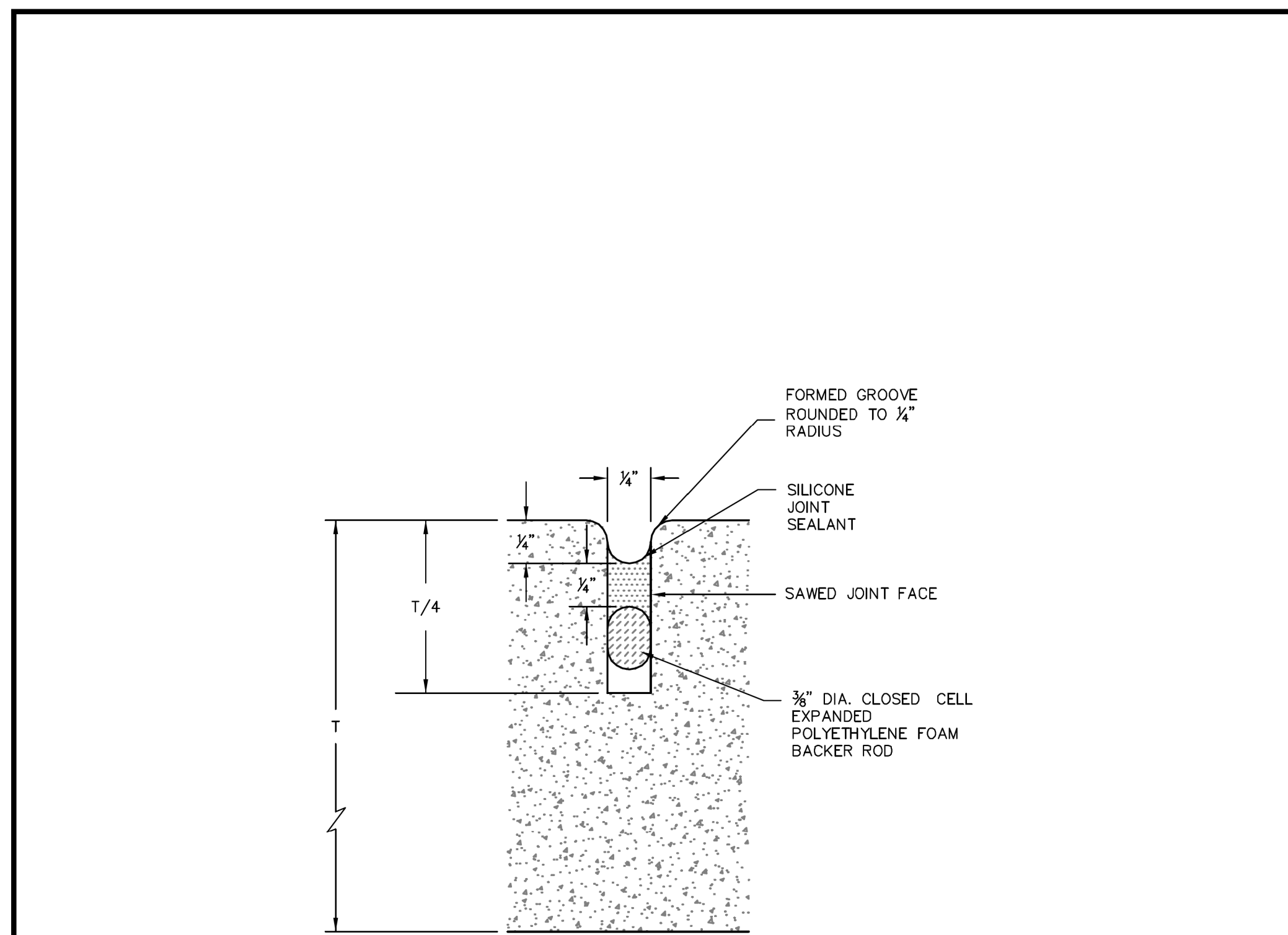
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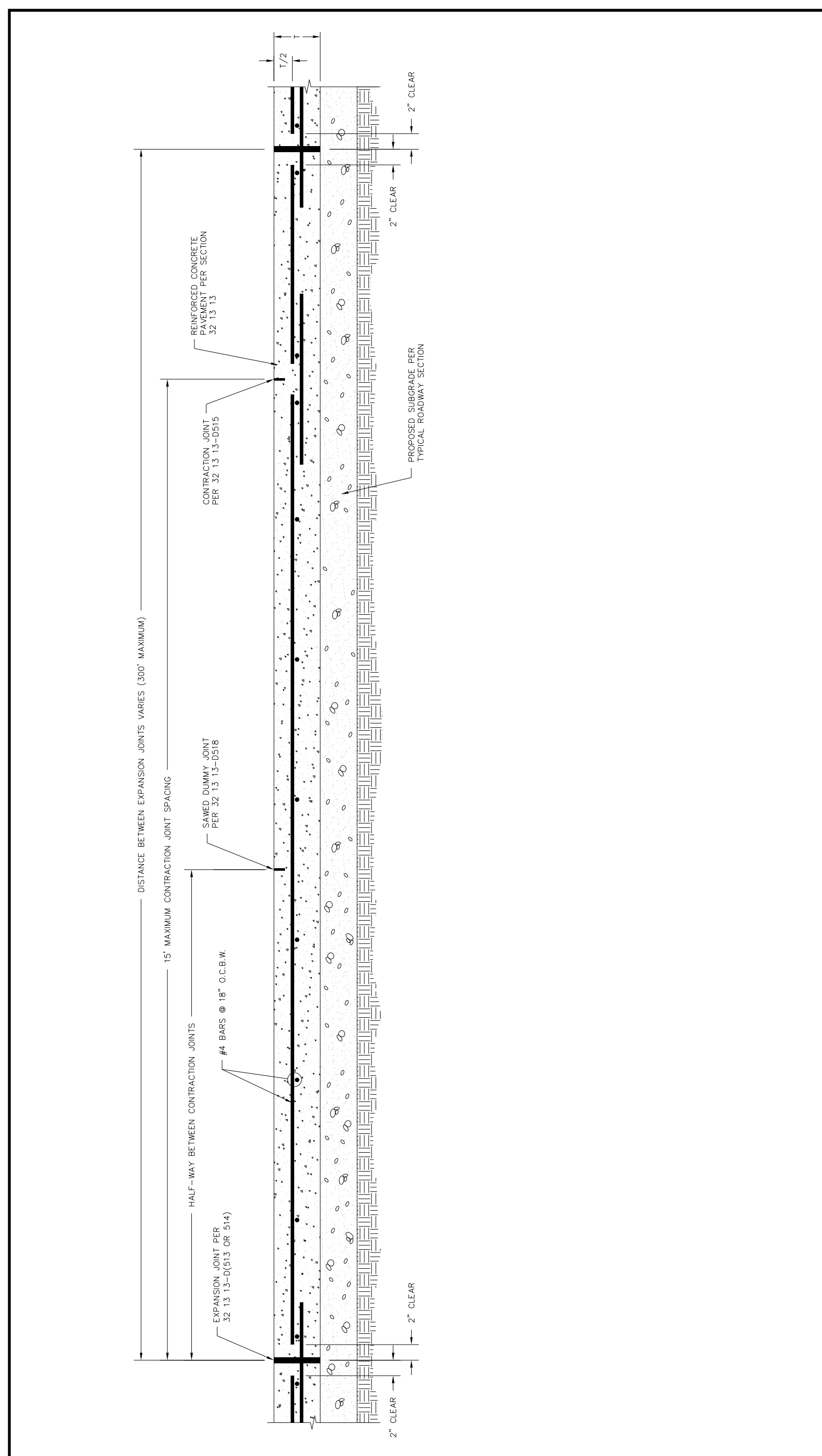
	CITY OF FORT WORTH, TEXAS	REVISED: 08-31-2012
	SAWED DUMMY JOINT	32 13 13-D516

	CITY OF FORT WORTH, TEXAS	REVISED: 08-31-2012
	REDWOOD EXPANSION JOINT DETAIL	32 13 13-D517

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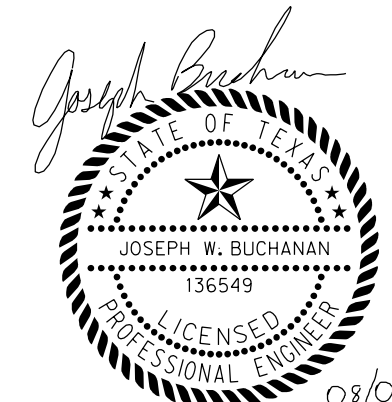
	CITY OF FORT WORTH, TEXAS	REVISED: 08-31-2012
	SAWED JOINT DETAIL	32 13 13-D518



	CITY OF FORT WORTH, TEXAS	REVISED: 08-31-2012
LONGITUDINAL PAVING SECTION		32 13 13-D519

REVISIONS

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HORIZONTAL & VERTICAL CONTROL

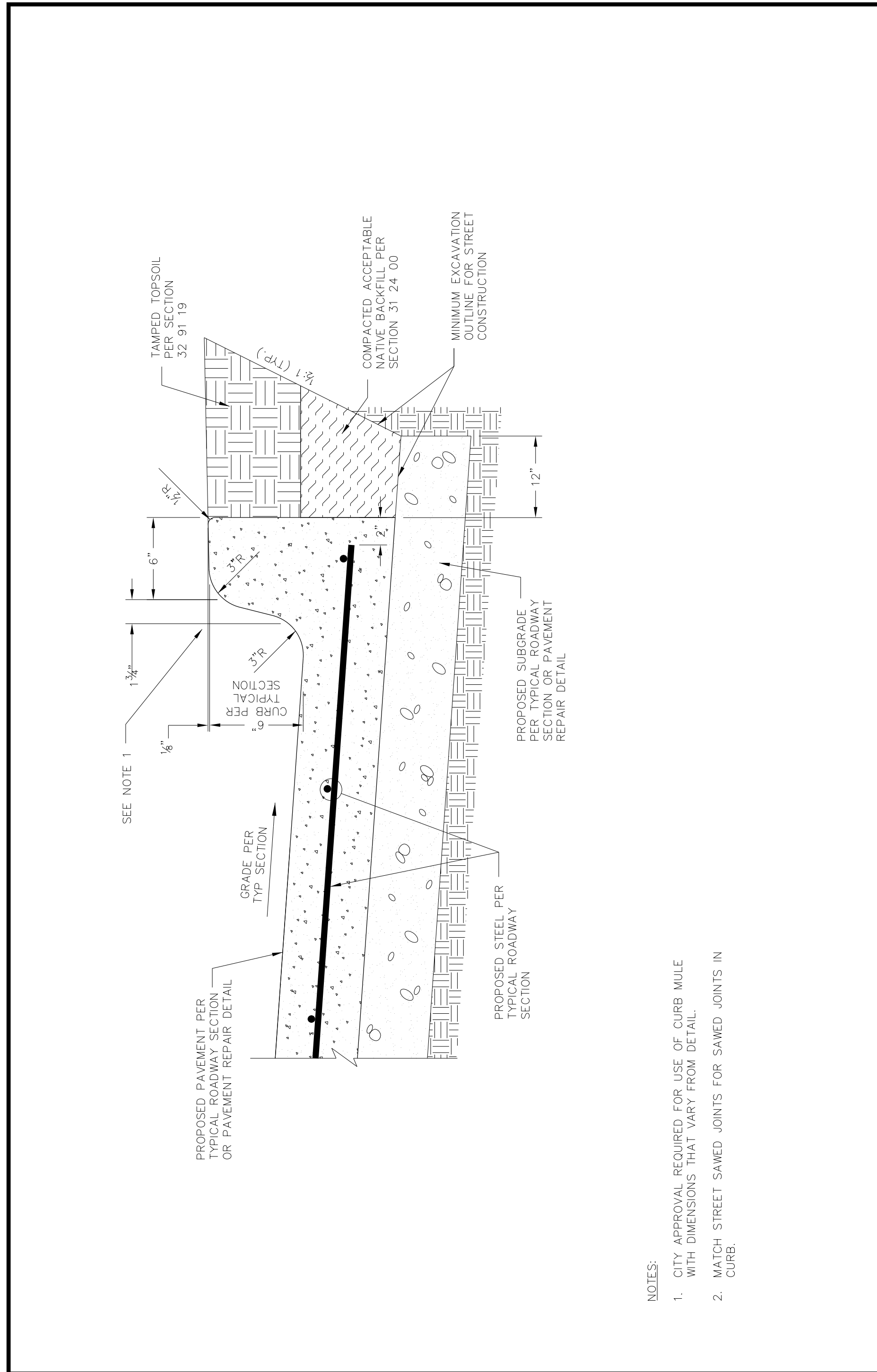
CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
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DOE # _____ K-2840
 CITY PROJECT # 103320 MAPSCO NO. _____
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
CONCRETE PAVING DETAILS
 (SHEET 5 OF 10)

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 70 OF 189
DRAWN: PTS			



- NOTES:
1. CITY APPROVAL REQUIRED FOR USE OF CURB MULE WITH DIMENSIONS THAT VARY FROM DETAIL.
 2. MATCH STREET SAWED JOINTS FOR SAWED JOINTS IN CURB.



CITY OF FORT WORTH, TEXAS

STANDARD MONOLITHIC CURB

REVISED: 08-31-2012

32 13 13-D525

REVISIONS

NO.	DESCRIPTION	DATE
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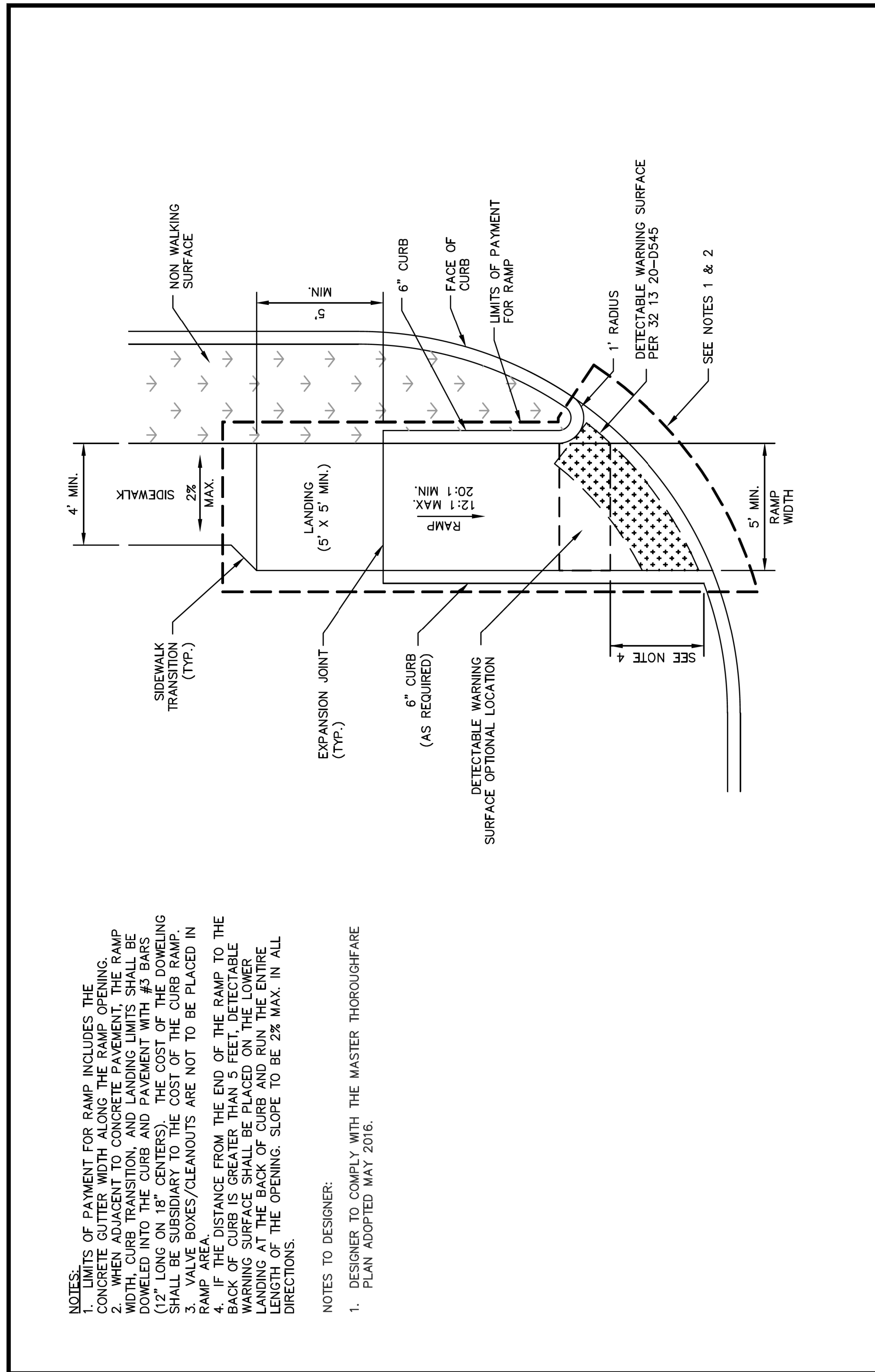
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO.
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT
 SERVICES

TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
CONCRETE PAVING DETAILS
 (SHEET 6 OF 10)

DESIGNED: TMW	SCALE:	DATE:	SHEET
DRAWN: PTS	N.T.S.	06/08/2021	71 OF 189

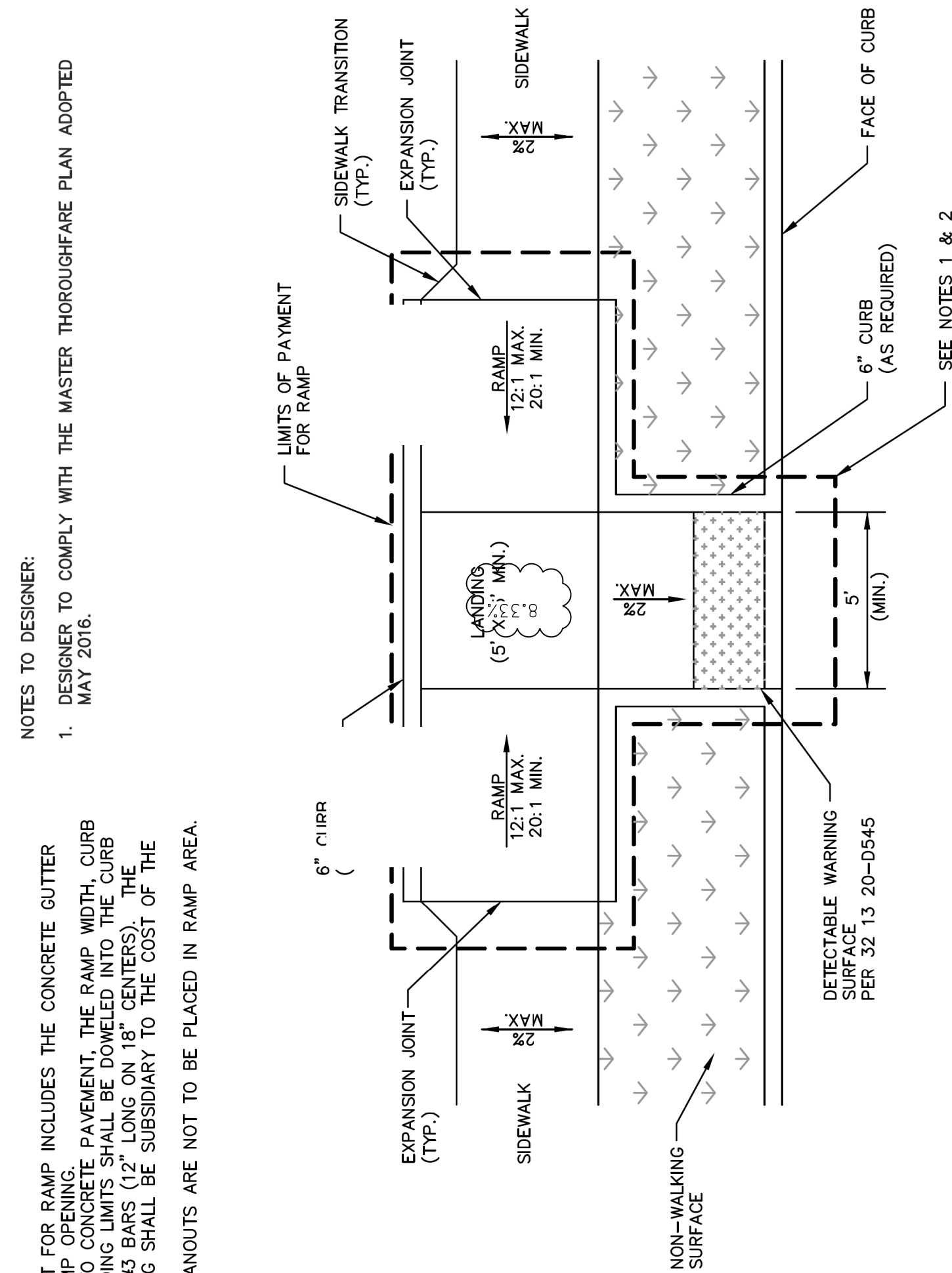


- NOTES:**
- LIMITS OF PAYMENT FOR RAMP INCLUDES THE WIDTH OF THE RAMP OPENING.
 - WHEN ADJACENT TO CONCRETE PAVEMENT, THE RAMP WIDTH, CURB TRANSITION, AND LANDING LIMITS SHALL BE DOWELED INTO THE CURB AND PAVEMENT WITH #3 BARS (12" LONG ON 18" CENTERS). THE COST OF THE DOWELING SHALL BE SUBSIDIARY TO THE COST OF THE CURB RAMP.
 - VALVE BOXES/CLEANOUTS ARE NOT TO BE PLACED IN RAMP AREA.
 - IF THE DISTANCE FROM THE END OF THE RAMP TO THE BACK OF CURB IS GREATER THAN 5 FEET, DETECTABLE WARNING SURFACE SHALL BE PLACED ON THE LOWER SIDE OF THE CURB AND RUN THE ENTIRE LENGTH OF THE OPENING. SLOPE TO BE 2% MAX. IN ALL DIRECTIONS.
- NOTES TO DESIGNER:**
- DESIGNER TO COMPLY WITH THE MASTER THOROUGHFARE PLAN ADOPTED MAY 2016.



CITY OF FORT WORTH, TEXAS
TYPE P-1 PERPENDICULAR CURB RAMP

REVISED: 04-13-2021
32 13 20-D540



- NOTES:**
- LIMITS OF PAYMENT FOR RAMP INCLUDES THE CONCRETE GUTTER WIDTH ALONG THE RAMP OPENING.
 - WHEN ADJACENT TO CONCRETE PAVEMENT, THE RAMP WIDTH, CURB TRANSITION, AND LANDING LIMITS SHALL BE DOWELED INTO THE CURB AND PAVEMENT WITH #3 BARS (12" LONG ON 18" CENTERS). THE COST OF THE DOWELING SHALL BE SUBSIDIARY TO THE COST OF THE CURB RAMP.
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- NOTES TO DESIGNER:**
- DESIGNER TO COMPLY WITH THE MASTER THOROUGHFARE PLAN ADOPTED MAY 2016.



CITY OF FORT WORTH, TEXAS
TYPE M-2 MID-BLOCK RAMP (SIDEWALK) ADJACENT TO NON-WALKING SURFACE)

REVISED: 04-13-2021
32 13 20-D538

REVISIONS

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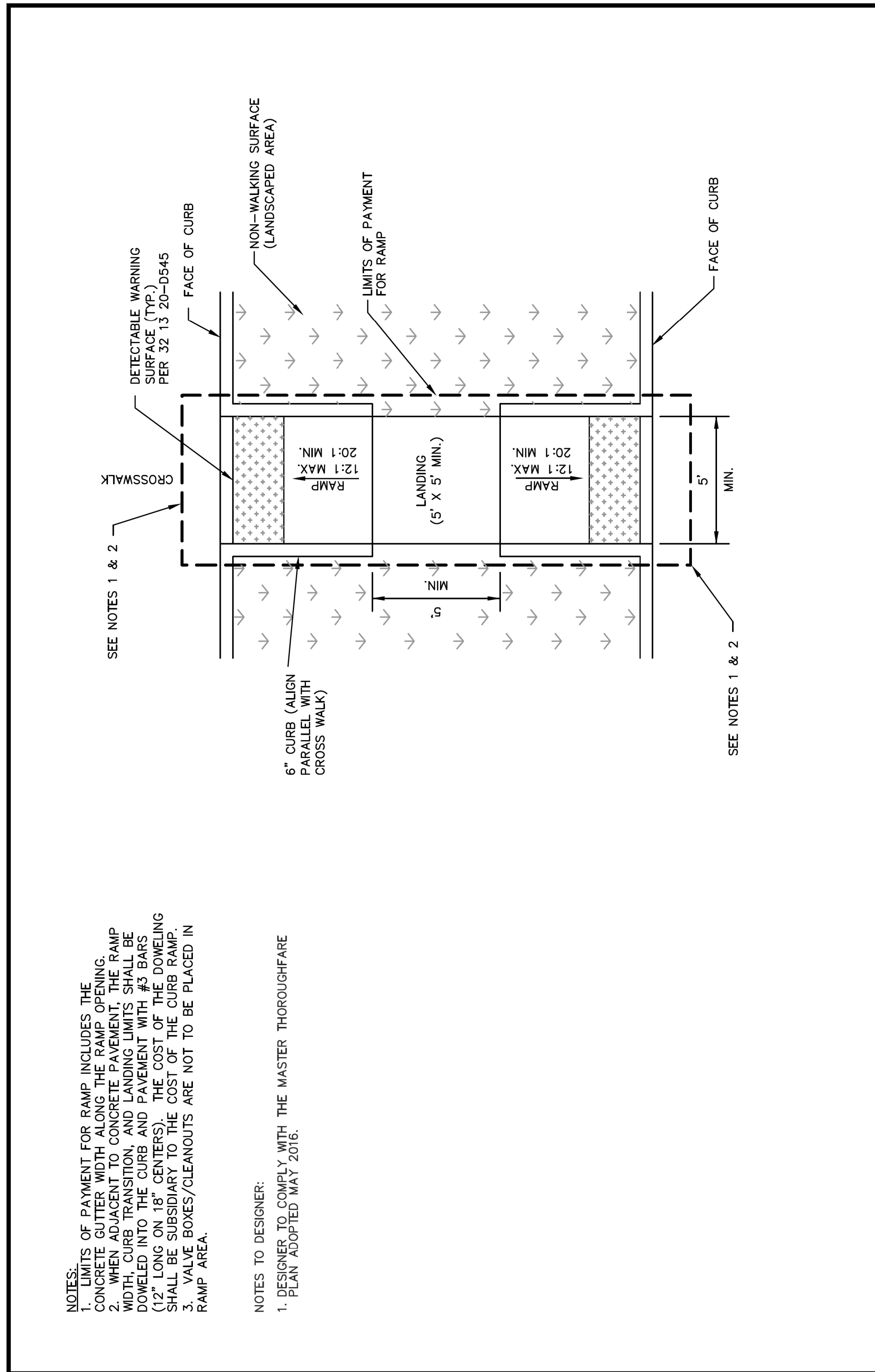
DOE # K-2840
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 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
CONCRETE PAVING DETAILS
 (SHEET 7 OF 10)

DESIGNED: TMW	SCALE:	DATE:	SHEET
DRAWN: PTS	N.T.S.	06/08/2021	72 OF 189



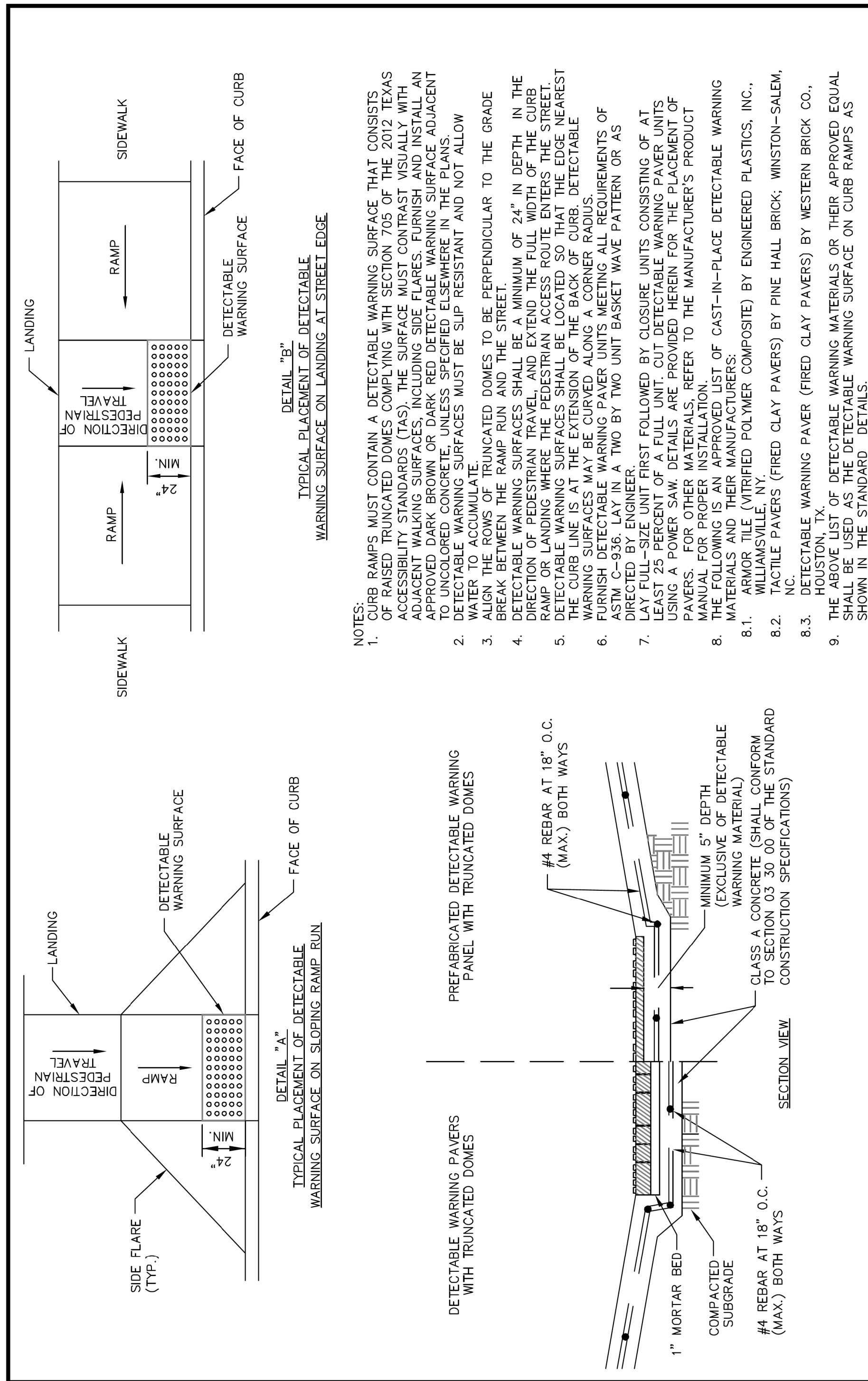
NOTES:
 1. LIMITS OF PAYMENT FOR RAMP INCLUDES THE CONCRETE CUTTER WIDTH ALONG THE RAMP OPENING.
 2. WHEN ADJACENT TO CONCRETE PAVEMENT, THE RAMP WIDTH, CURB TRANSITION, AND LANDING LIMITS SHALL BE DOWELED INTO THE CURB AND PAVEMENT WITH #3 BARS (12" LONG ON 18" CENTERS). THE COST OF THE DOWELING SHALL BE SUBSIDIARY TO THE COST OF THE CURB RAMP.
 3. VALVE BOXES/CLEANOUTS ARE NOT TO BE PLACED IN RAMP AREA.

NOTES TO DESIGNER:
 1. DESIGNER TO COMPLY WITH THE MASTER THOROUGHFARE PLAN ADOPTED MAY 2016.

FORT WORTH

CITY OF FORT WORTH, TEXAS
**TYPE C-2 MEDIAN OR ISLAND
 RAMP AT LANDSCAPED AREA**

REVISED: 04-13-2021
32 13 20-D543



NOTES:
 1. CURB RAMPS MUST CONTAIN A DETECTABLE WARNING SURFACE THAT CONSISTS OF RAISED TRUNCATED DOMES COMPLYING WITH SECTION 705 OF THE 2012 TEXAS ACCESSIBILITY STANDARDS (TAS). THE SURFACE MUST CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES, INCLUDING SIDE FLARES. FURNISH AND INSTALL AN APPROVED DARK BROWN OR DARK RED DETECTABLE WARNING SURFACE ADJACENT TO THE DETECTABLE WARNING SURFACES. THE SURFACE MUST BE SLIP RESISTANT AND NOT ALLOW WATER TO ACCUMULATE.
 2. ALIGN THE ROWS OF TRUNCATED DOMES TO BE PERPENDICULAR TO THE GRADE.
 3. BREAK BETWEEN THE RAMP RUN AND THE STREET.
 4. DETECTABLE WARNING SURFACES SHALL BE A MINIMUM OF 24" IN DEPTH IN THE DIRECTION OF PEDESTRIAN TRAVEL, AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR LANDING WHERE THE PEDESTRIAN ACCESS ROUTE ENTERS THE STREET.
 5. DETECTABLE WARNING SURFACES SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS AT THE EXTENSION OF THE BACKER OF CURB.
 6. FURNISH DETECTABLE WARNING PAVEMENT UNITS MEETING ALL REQUIREMENTS OF ASTM C-936. LAY IN A TWO BY TWO UNIT BASKET WAVE PATTERN OR AS DIRECTED BY ENGINEER.
 7. LAY FULL-SIZE UNIT FIRST FOLLOWED BY CLOSURE UNITS CONSISTING OF AT LEAST 25 PERCENT OF A FULL UNIT. CUT DETECTABLE WARNING PAVEMENT UNITS USING A POWER SAW. DETAILS ARE PROVIDED HEREIN FOR THE PLACEMENT OF PAVERS. FOR OTHER MATERIALS, REFER TO THE MANUFACTURER'S PRODUCT MANUAL FOR PROPER INSTALLATION.
 8. MATERIALS AND THEIR MANUFACTURERS:
 8.1. ARMOR TILE (VITRIFIED POLYMER COMPOSITE) BY ENGINEERED PLASTICS, INC., WILLIAMSVILLE, NY.
 8.2. TACTILE PAVERS (FRED CLAY PAVERS) BY PINE HALL BRICK; WINSTON-SALEM, NC.
 8.3. DETECTABLE WARNING PAVERS (FRED CLAY PAVERS) BY WESTERN BRICK CO., HOUSTON, TX.
 9. THE ABOVE LIST OF DETECTABLE WARNING MATERIALS OR THEIR APPROVED EQUAL SHALL BE USED AS THE DETECTABLE WARNING SURFACE ON CURB RAMPS AS SHOWN IN THE STANDARD DETAILS.

FORT WORTH

CITY OF FORT WORTH, TEXAS
DETECTABLE WARNING SURFACE

REVISED: 08-31-2012
32 13 20-D545

REVISIONS		
NO.	DESCRIPTION	DATE
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2		
3		



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 FORT WORTH WATER DEPT.-FIELD OPERATIONS SANITARY SEWER (817) 223-7438
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 ATMOS ENERGY (817) 215-4366
 ONCOR GAS & ELECTRIC (817) 215-6214
 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL		
CONTROL POINT #105 SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	CONTROL POINT #109 SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	CONTROL POINT #314 SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97
DOE # CITY PROJECT # 103320 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXX WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXX SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXX MAP NO. XXXX-XXX		K-2840 MAPSCO NO. 119E AND 119F

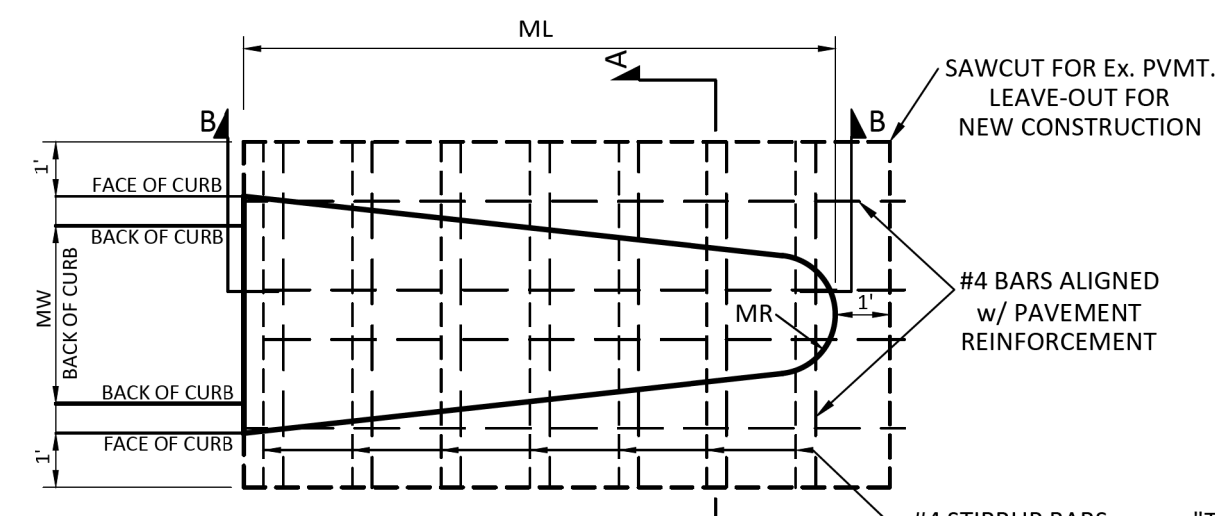
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT
 SERVICES

TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

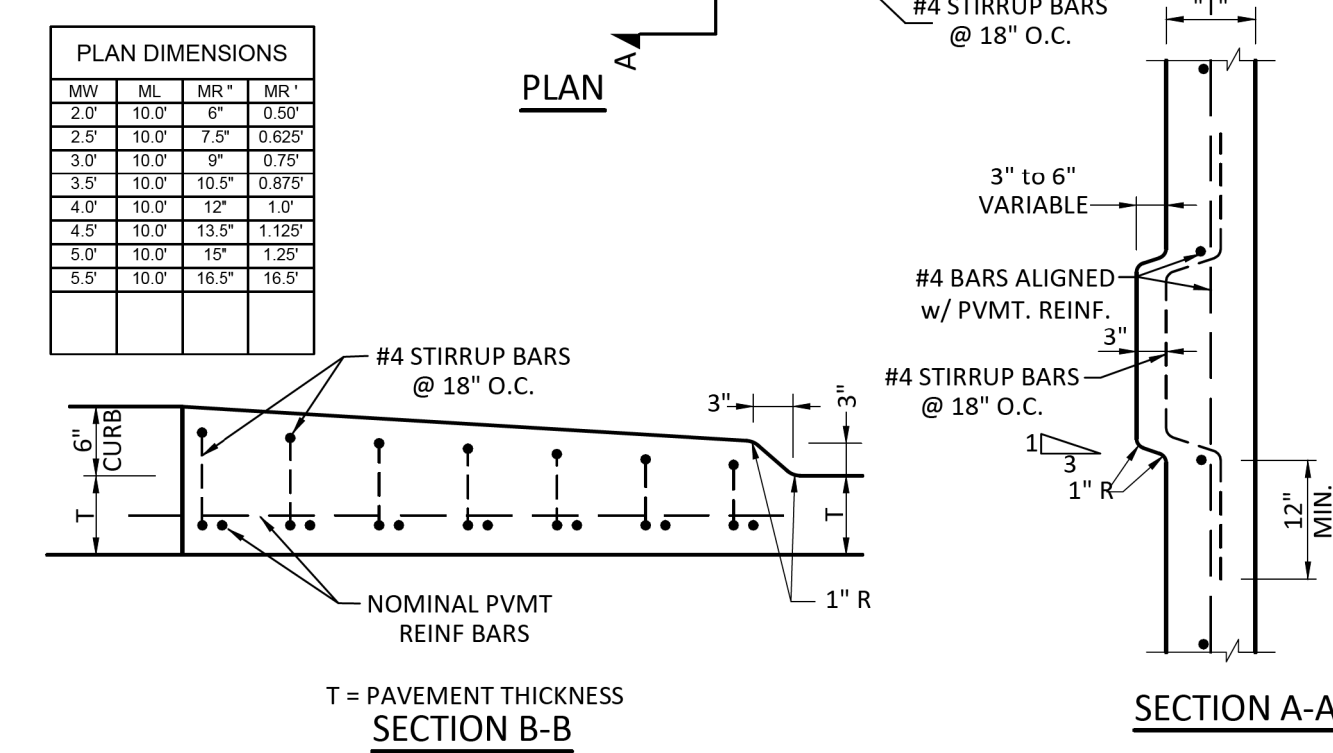
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
CONCRETE PAVING DETAILS
 (SHEET 8 OF 10)

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 73 OF 189
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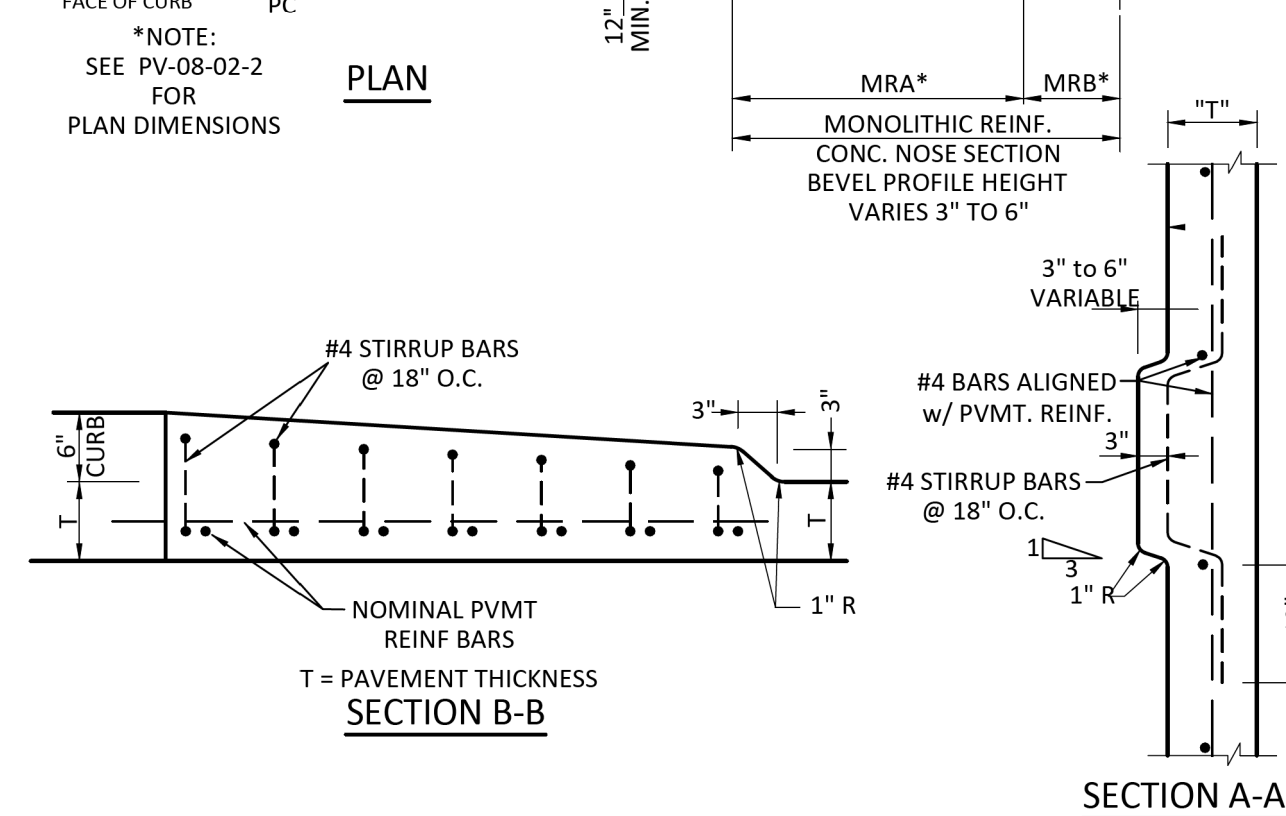
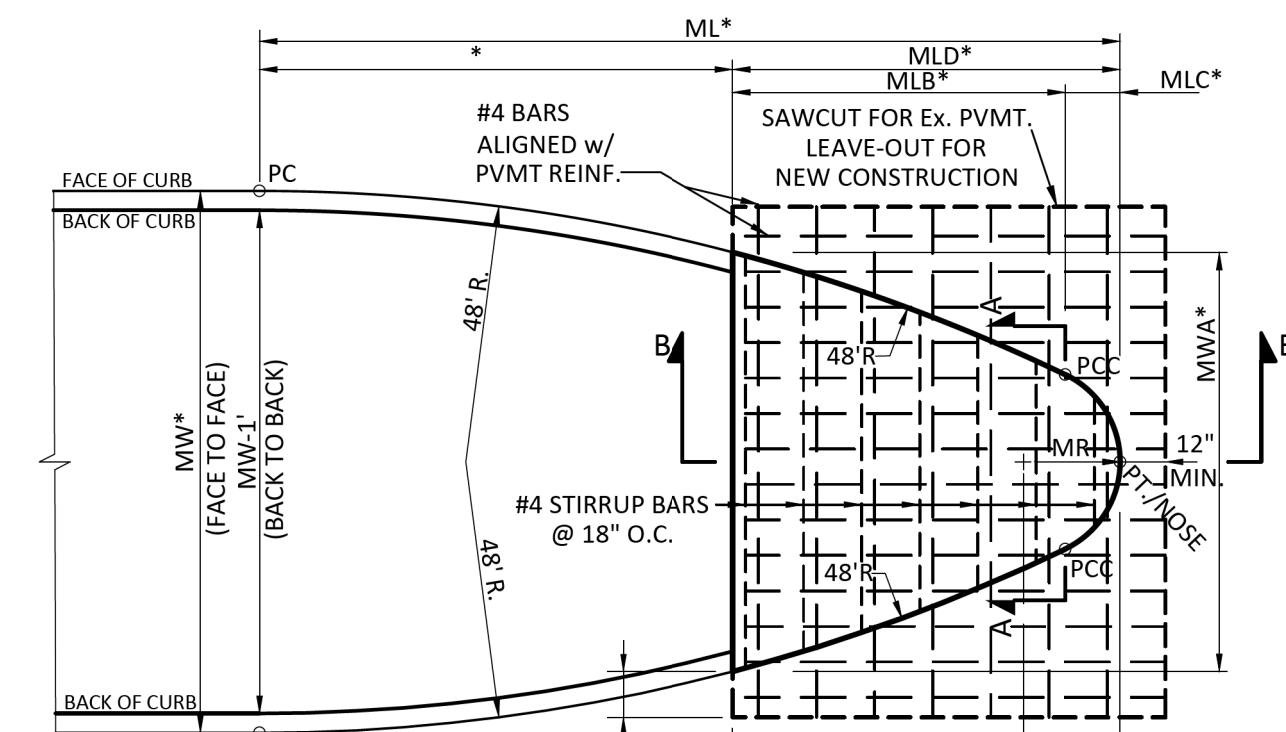
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PLAN DIMENSIONS			
MW	ML	MR*	MRB
2.0'	10.0'	8'	0.50'
2.5'	10.0'	7.5'	0.625'
3.0'	10.0'	7'	0.75'
3.5'	10.0'	6.5'	0.875'
4.0'	10.0'	6'	1.0'
4.5'	10.0'	5.5'	1.125'
5.0'	10.0'	5'	1.25'
5.5'	10.0'	4.5'	1.375'



MEDIAN NOSE DETAIL 'A'
N.T.S.



MEDIAN NOSE DETAIL 'B'
N.T.S.

PLAN DIMENSIONS (See PV-08-02-1)									
MW	ML	MLA	MLB	MLC	MLD	MWA	MR	MRA	MRB
6.0'	14.14'	4.14'	9.16'	0.84'	10'	5.64'	14"	8.83'	1.17'
6.5'	14.97'	4.97'	9.18'	0.82'	10'	5.98'	14"	8.83'	1.17'
7.0'	15.58'	5.58'	9.13'	0.87'	10'	6.35'	15"	8.75'	1.25'
7.5'	16.33'	6.33'	9.15'	0.85'	10'	6.66'	15"	8.75'	1.25'
8.0'	17.05'	7.05'	9.17'	0.83'	10'	6.96'	15"	8.75'	1.25'
8.5'	17.25'	7.25'	9.00'	1.00'	10'	7.40'	18"	8.50'	1.50'
9.0'	17.93'	7.93'	9.03'	0.97'	10'	7.68'	18"	8.50'	1.50'
9.5'	18.14'	8.14'	8.87'	1.13'	10'	8.11'	21"	8.25'	1.75'
10.0'	18.78'	8.78'	8.89'	1.11'	10'	8.38'	21"	8.25'	1.75'
10.5'	18.98'	9.98'	8.74'	1.26'	10'	8.80'	24"	8.00'	2.00'
11.0'	19.19'	9.19'	8.58'	1.42'	10'	9.23'	27"	7.75'	2.25'
11.5'	19.80'	9.80'	8.61'	1.39'	10'	9.48'	27"	7.75'	2.25'
12.0'	20.00'	10.00'	8.46'	1.54'	10'	9.89'	30"	7.50'	2.50'
12.5'	20.59'	10.59'	8.49'	1.51'	10'	10.14'	30"	7.50'	2.50'
13.0'	21.16'	11.16'	8.53'	1.47'	10'	10.37'	30"	7.50'	2.50'
13.5'	21.70'	11.70'	8.56'	1.44'	10'	10.60'	30"	7.50'	2.50'
14.0'	22.23'	12.23'	8.58'	1.42'	10'	10.83'	30"	7.50'	2.50'
14.5'	22.74'	12.74'	8.61'	1.39'	10'	11.06'	30"	7.50'	2.50'
15.0'	23.24'	13.24'	8.64'	1.36'	10'	11.28'	30"	7.50'	2.50'
15.5'	23.12'	13.12'	8.34'	1.66'	10'	11.84'	36"	7.00'	3.00'
16.0'	23.62'	13.62'	8.37'	1.63'	10'	12.06'	36"	7.00'	3.00'
16.5'	24.09'	14.09'	8.41'	1.59'	10'	12.27'	36"	7.00'	3.00'
17.0'	23.99'	13.99'	8.11'	1.89'	10'	12.83'	42"	6.50'	3.50'
17.5'	24.47'	14.47'	8.15'	1.85'	10'	13.04'	42"	6.50'	3.50'
18.0'	24.37'	14.37'	7.85'	2.15'	10'	13.60'	48"	6.00'	4.00'
18.5'	24.84'	14.84'	7.89'	2.11'	10'	13.80'	48"	6.00'	4.00'
19.0'	25.30'	15.30'	7.94'	2.06'	10'	13.99'	48"	6.00'	4.00'
19.5'	25.75'	15.75'	7.98'	2.02'	10'	14.19'	48"	6.00'	4.00'
20.0'	25.13'	15.13'	7.34'	2.66'	10'	15.13'	60"	5.00'	5.00'
20.5'	25.59'	15.59'	7.39'	2.61'	10'	15.59'	60"	5.00'	5.00'
21.0'	26.04'	16.04'	7.45'	2.55'	10'	16.04'	60"	5.00'	5.00'
21.5'	26.48'	16.48'	7.50'	2.50'	10'	16.48'	60"	5.00'	5.00'
22.0'	26.91'	16.91'	7.55'	2.45'	10'	16.91'	60"	5.00'	5.00'
22.5'	26.85'	16.85'	7.26'	2.64'	10'	16.85'	66"	5.50'	4.50'
23.0'	27.27'	17.27'	7.32'	2.68'	10'	17.27'	66"	5.50'	4.50'
23.5'	27.68'	17.68'	7.37'	2.63'	10'	17.68'	66"	5.50'	4.50'
24.0'	28.09'	18.09'	7.42'	2.58'	10'	18.09'	66"	5.50'	4.50'
24.5'	28.48'	18.48'	7.47'	2.53'	10'	18.48'	66"	5.50'	4.50'
25.0'	28.44'	18.44'	7.21'	2.79'	10'	18.44'	72"	4.00'	6.00'
25.5'	28.84'	18.84'	7.26'	2.74'	10'	18.84'	72"	4.00'	6.00'
26.0'	29.22'	19.22'	7.32'	2.68'	10'	19.22'	72"	4.00'	6.00'
26.5'	29.59'	19.59'	7.37'	2.63'	10'	19.59'	72"	4.00'	6.00'
27.0'	29.95'	19.95'	7.42'	2.58'	10'	19.95'	72"	4.00'	6.00'

REVISIONS

NO.	DESCRIPTION	DATE
1		
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 CHARTER COMM. (817) 509-6272 EXT. 3363
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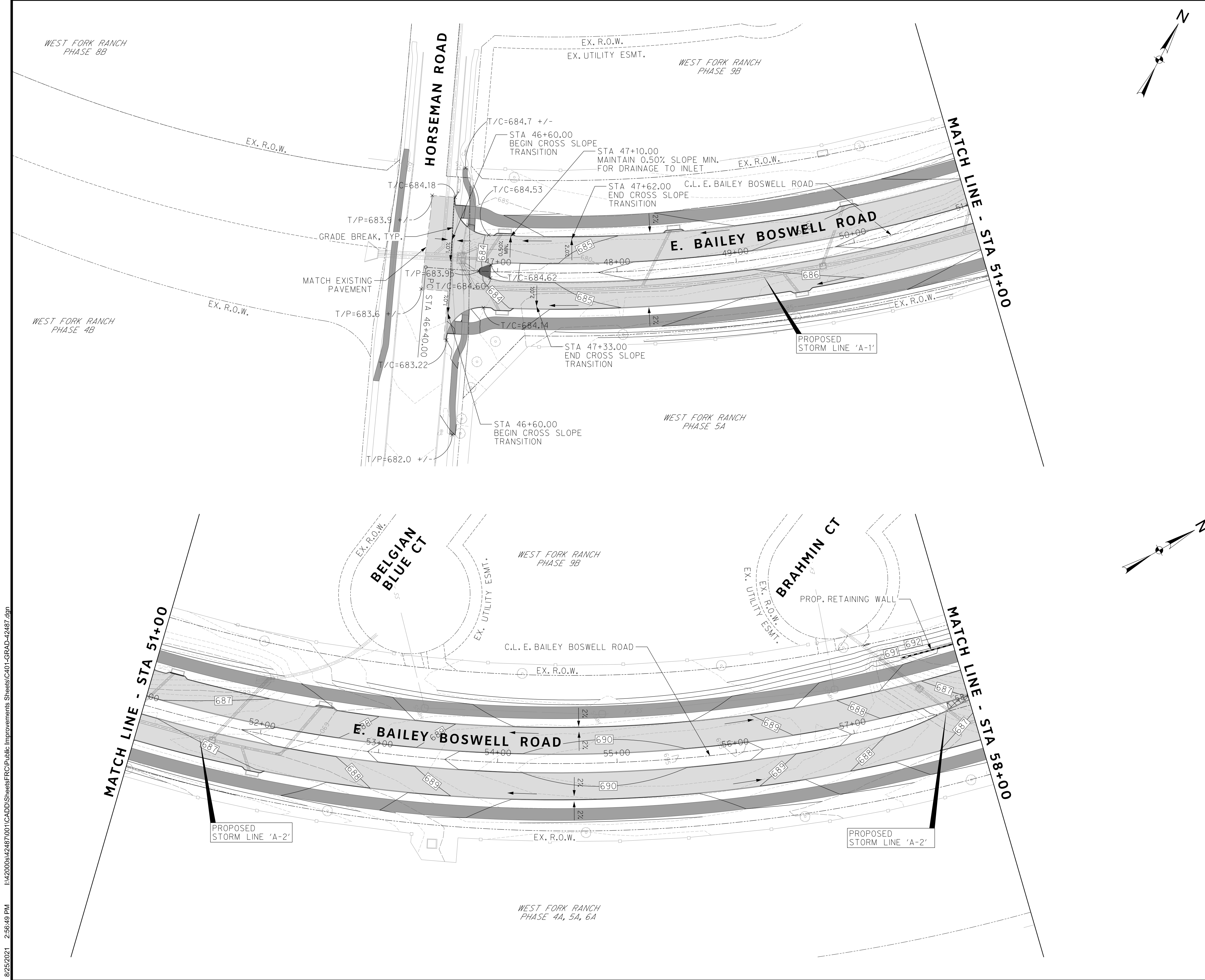
HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
 EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
CONCRETE PAVING DETAILS
 (SHEET 10 OF 10)

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 75 OF 189
DRAWN: PTS			



REVISIONS		
No.	Description	DATE
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 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT
 SERVICES**

**TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 GRADING PLAN
 BEGIN TO STA 58+00**

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 76 OF 189
DRAWN: PTS			

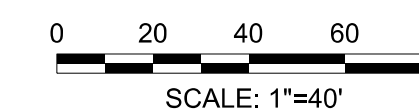
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REVISIONS

No.	DESCRIPTION	DATE
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TBPE FIRM #F-312
3803 PARKWOOD BLVD., STE 800
FRISCO, TEXAS 75034-8840
(214) 217-6964



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TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
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SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
MAP NO. XXXX-XXX

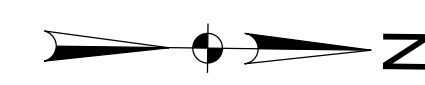
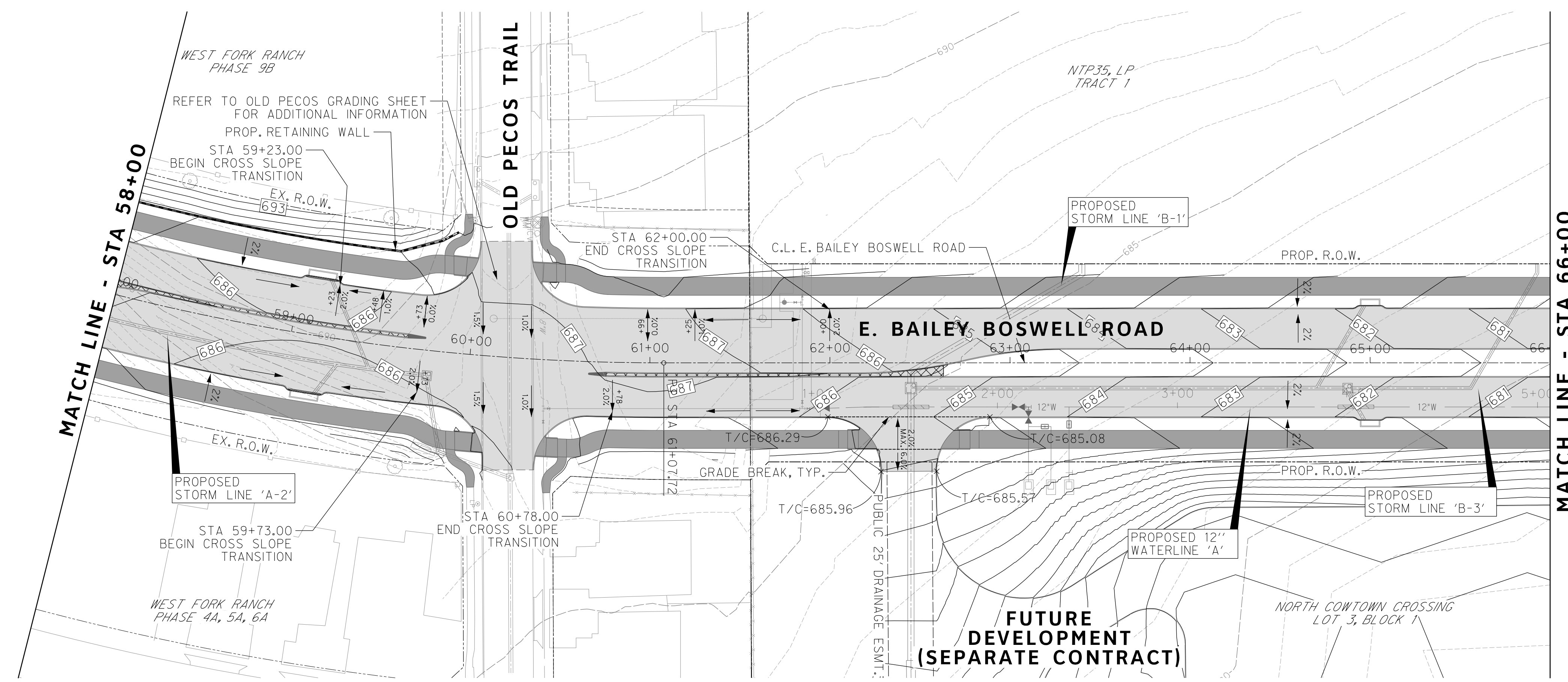
CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
GRADING PLAN
STA 58+00 TO STA 73+00

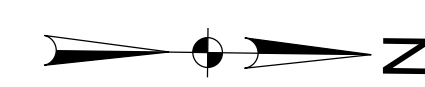
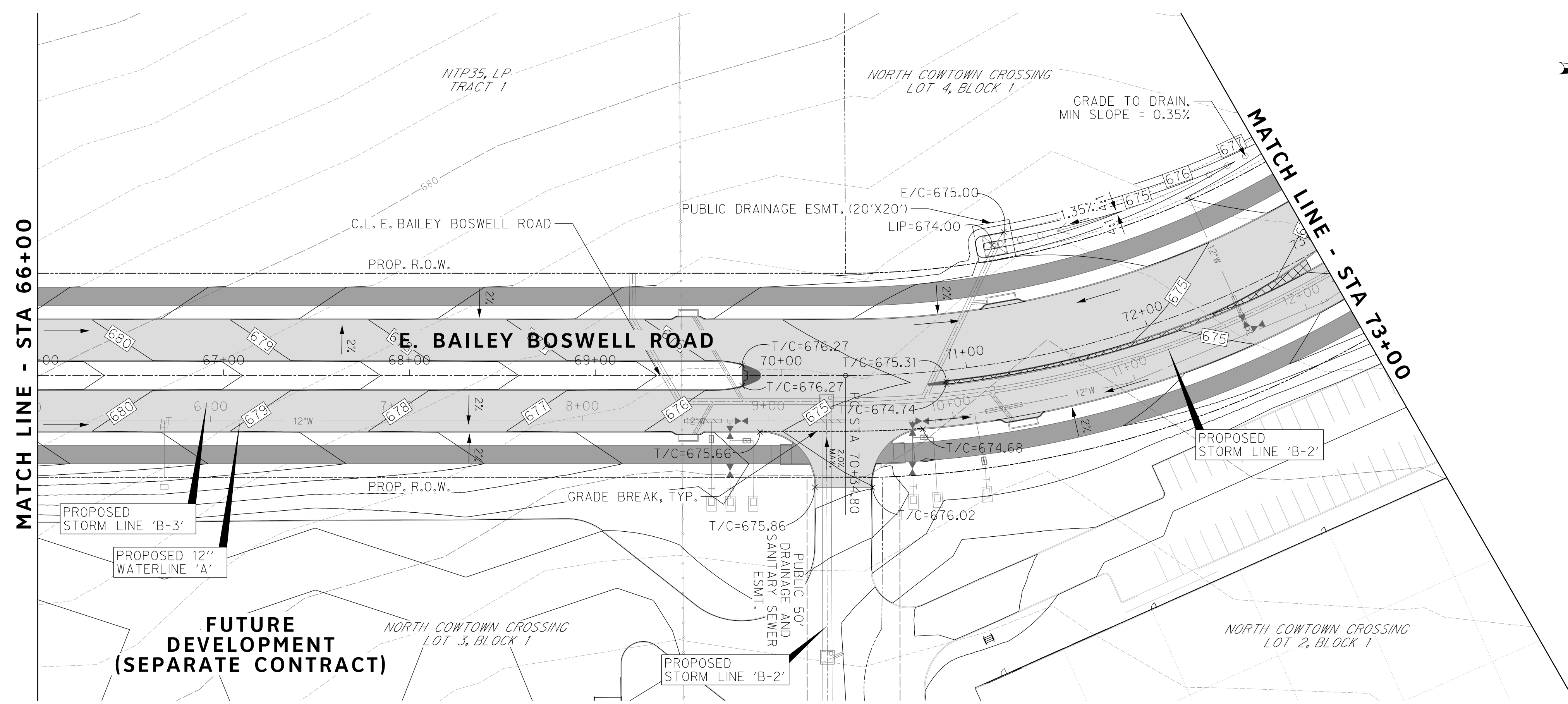
DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 77 OF 189
DRAWN: PTS			

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MATCH LINE - STA 66+00

MATCH LINE - STA 58+00



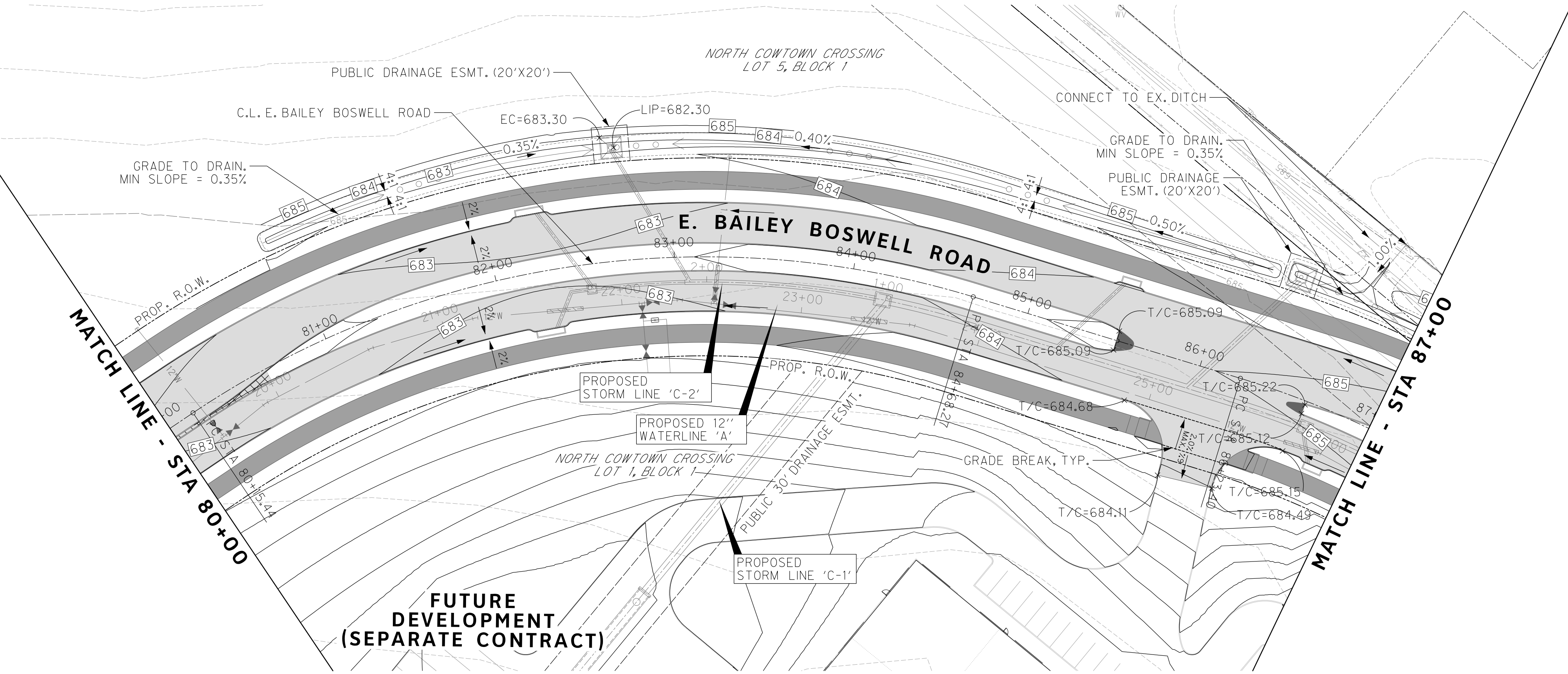
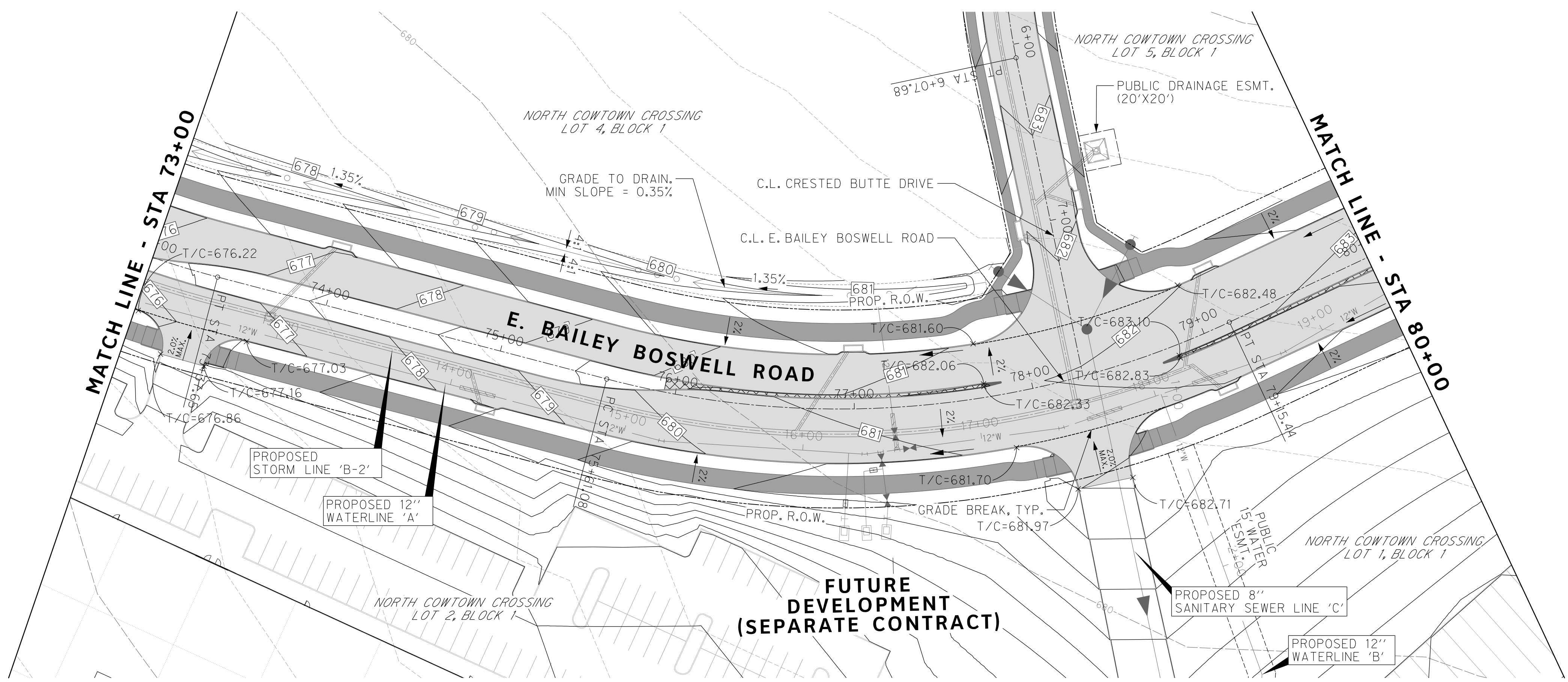
MATCH LINE - STA 66+00

MATCH LINE - STA 73+00

FUTURE DEVELOPMENT (SEPARATE CONTRACT)

FUTURE DEVELOPMENT (SEPARATE CONTRACT)

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REVISIONS		
No.	DESCRIPTION	DATE
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 THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATING AT EACH LOCATION:
 AT&T 1-800-878-8711
 FORT WORTH WATER DEPT.-FIELD OPERATIONS WATER (817) 925-2360
 FORT WORTH WATER DEPT.-FIELD OPERATIONS SANITARY SEWER (817) 223-7438
 FORT WORTH WATER DEPT.-FIELD OPERATIONS LOCATE (817) 392-8296
 FORT WORTH T&PW (817) 871-8100
 ATMOS ENERGY (817) 215-4366
 ONCOR GAS & ELECTRIC (817) 215-6214
 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

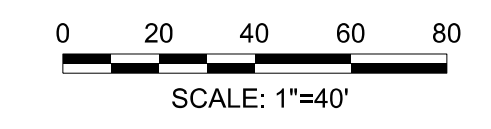
CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
 EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD
GRADING PLAN
 STA 73+00 TO STA 87+00

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 78 OF 189
DRAWN: PTS			

REVISIONS		
NO.	DESCRIPTION	DATE
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CONSTRUCTION NOTES

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 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

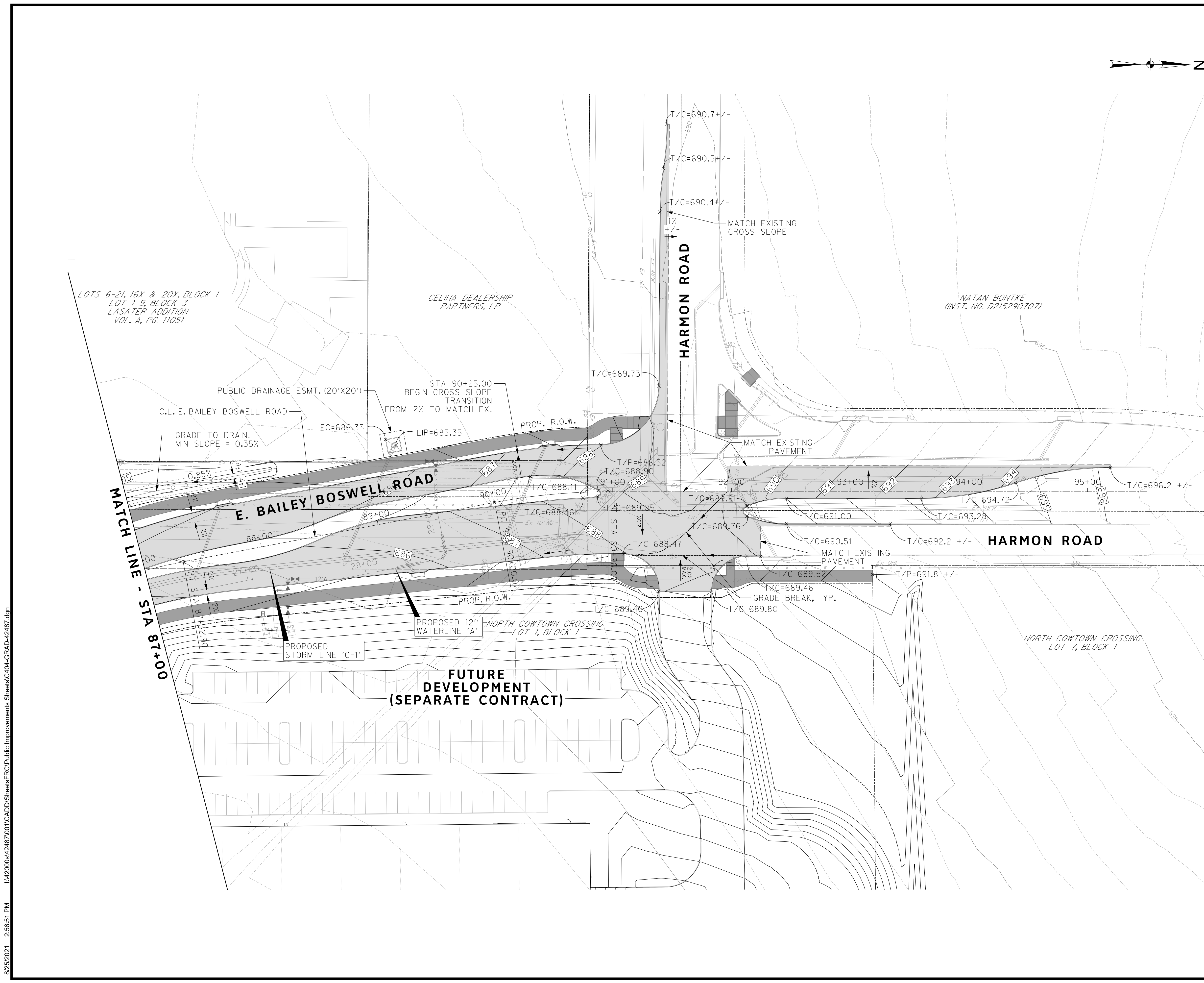
CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
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ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

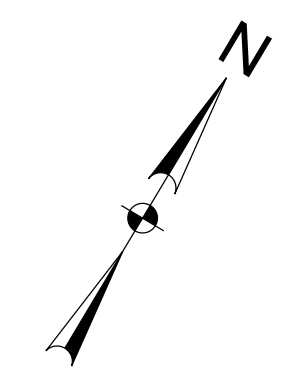
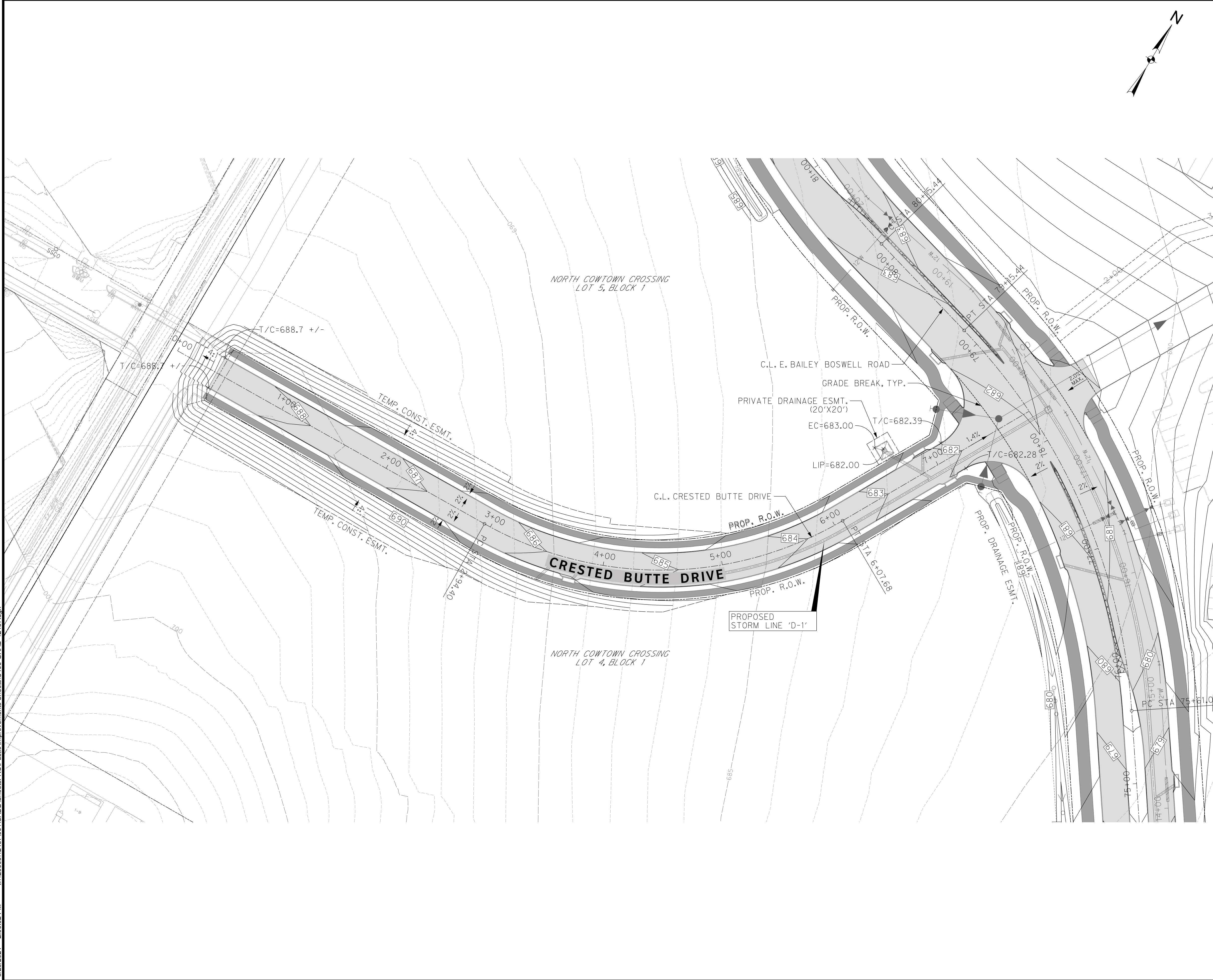
EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD GRADING PLAN STA 87+00 TO END

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 79 OF 189
DRAWN: PTS			



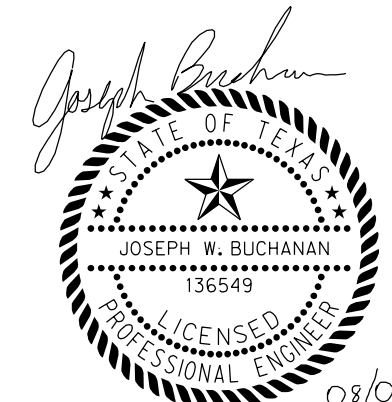
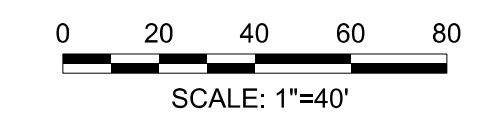
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 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

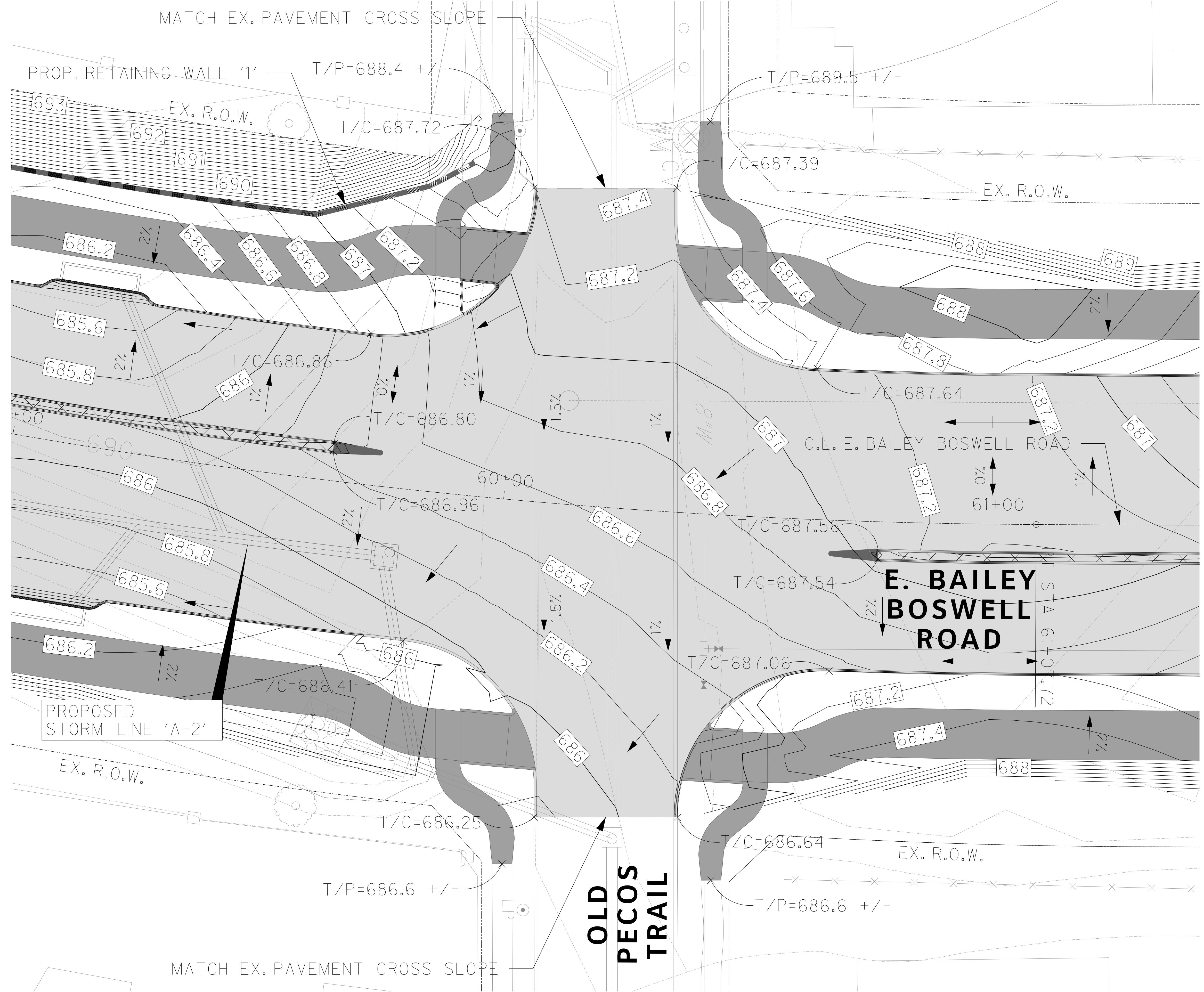
CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97

DOE # _____ K-2840
 CITY PROJECT # 103320 MAPSCO NO. _____
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD
GRADING PLAN
CRESTED BUTTE DRIVE

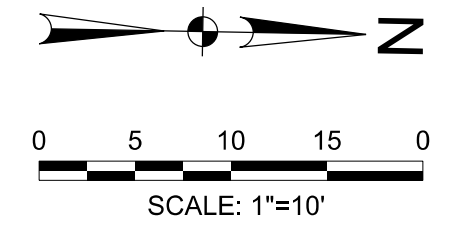
DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 80 OF 189
DRAWN: PTS			

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REVISIONS

No.	DESCRIPTION	DATE
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 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

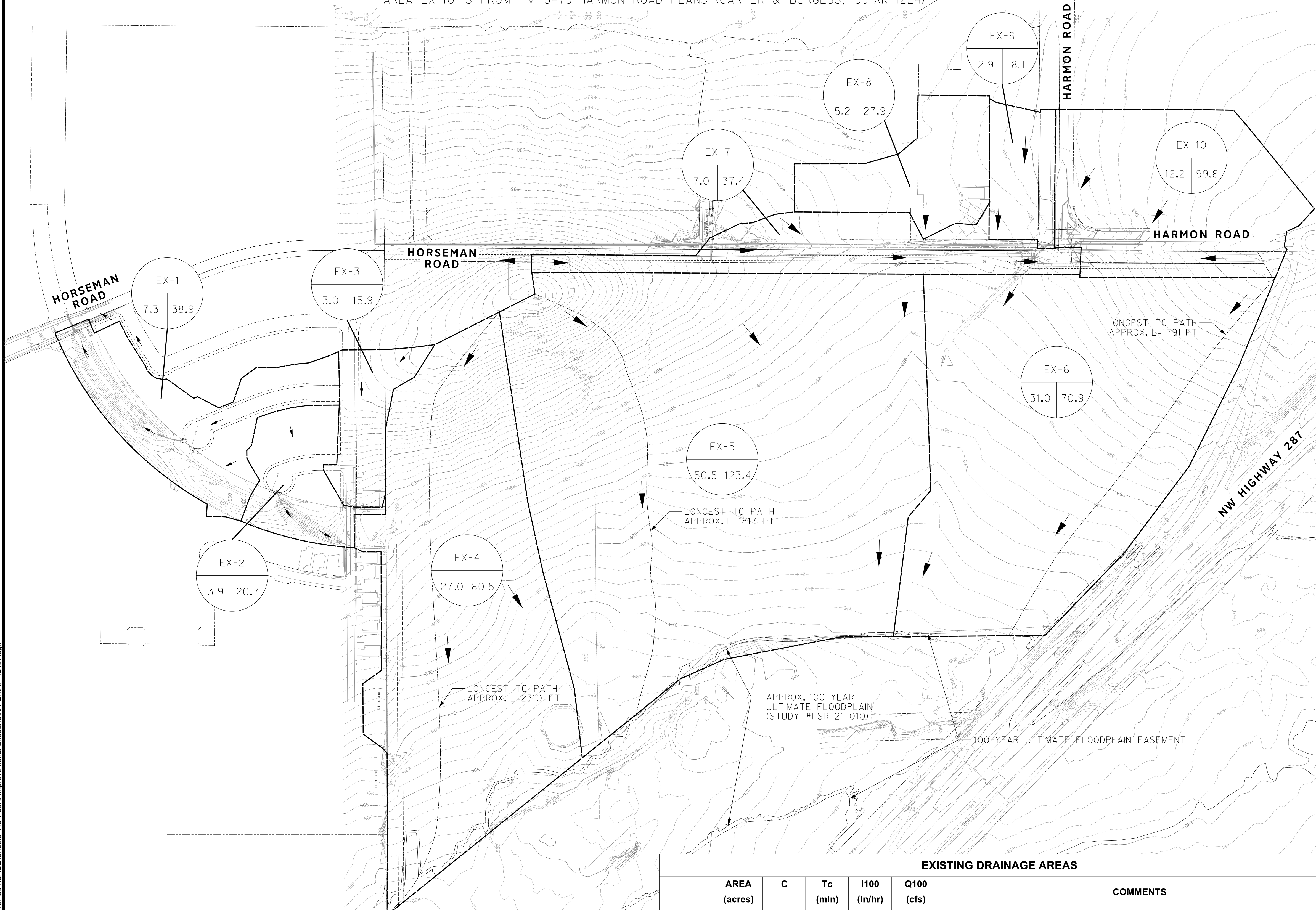
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

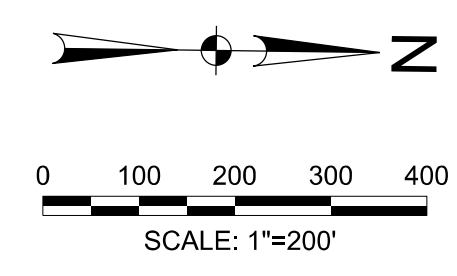
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
GRADING PLAN
 OLD PECOS INTERSECTION

DESIGNED: TMW	SCALE: 1"=10'	DATE: 06/08/2021	SHEET 81 OF 189
DRAWN: PTS			

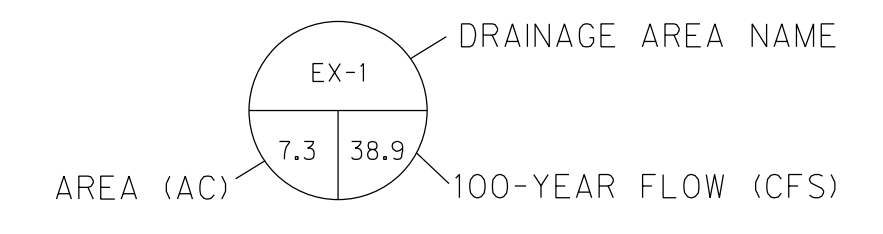
*AREAS EX-7, EX-8 AND EX-9 ARE FROM LASSITER ADDITION PHASE 1-SECTION 5 (CARTER & BURGESS, 2006)(W-1450)
 AREA EX-10 IS FROM FM 3479-HARMON ROAD PLANS (CARTER & BURGESS, 1991)(K-1224)



REVISIONS		
No.	DESCRIPTION	DATE
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LEGEND



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 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

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SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD EXISTING DRAINAGE AREA MAP

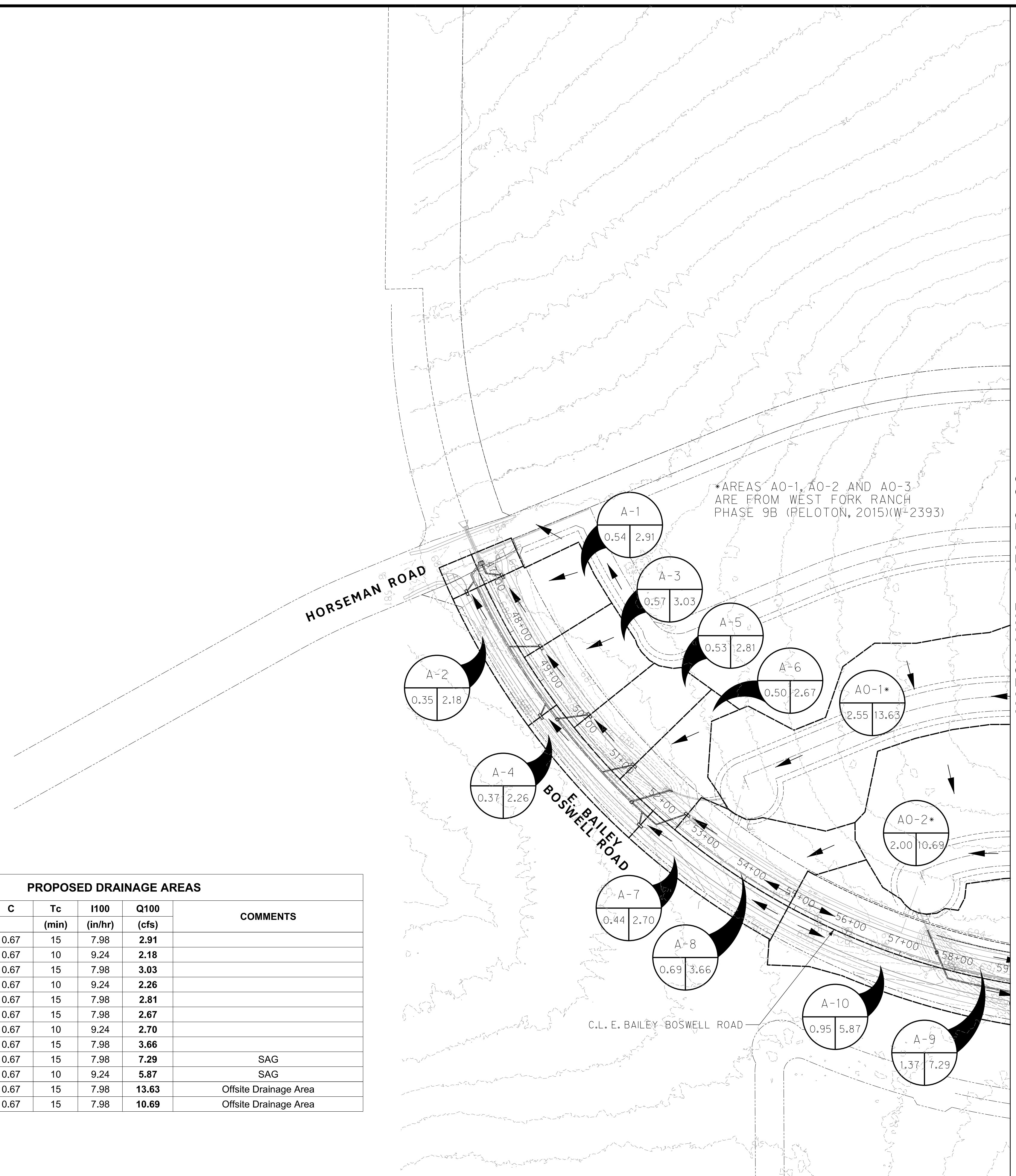
EXISTING DRAINAGE AREAS							COMMENTS	
AREA (acres)	C	Tc (min)	I100 (in/hr)	Q100 (cfs)				
EX-1	7.27	0.67	15	7.98	38.87	Areas, C-Value taken from Ex. Plans West Fork Ranch Phase 9B (Peloton,2015)		
EX-2	3.88	0.67	15	7.98	20.74	Areas, C-Value taken from Ex. Plans West Fork Ranch Phase 9B (Peloton,2015)		
EX-3	2.98	0.67	15	7.98	15.93	Areas, C-Value taken from Ex. Plans West Fork Ranch Phase 9B (Peloton,2015)		
EX-4	26.97	0.35	24	6.41	60.52			
EX-5	50.48	0.35	20	6.98	123.39			
EX-6	30.98	0.35	23	6.54	70.94			
EX-7	6.99	0.67	15	7.98	37.37	Areas, C-Value taken from Ex. Plans Lassiter Addition Phase 1-Section 5 (Carter&Burgess,2006)		
EX-8	5.21	0.67	15	7.98	27.86	Areas, C-Value taken from Ex. Plans Lassiter Addition Phase 1-Section 5 (Carter&Burgess,2006)		
EX-9	2.89	0.35	15	7.98	8.07	Areas, C-Value taken from Ex. Plans Lassiter Addition Phase 1-Section 5 (Carter&Burgess,2006)		
EX-10	12.15	0.80	12	10.27	99.82	Areas, C-Value, Intensity taken from Ex. Plans (Carter&Burgess,1991)		

AREA LABEL	SHEET FLOW					SHALLOW CONCENTRATED FLOW					TOTAL Tc (MIN)
	MANNING'S n	FLOW LENGTH L (FT)	2-YR, 24-HR RAINFALL DEPTH P (IN)	SLOPE S (FT/FT)	TRAVEL TIME T _{SHEET} (MIN)	SLOPE S (FT/FR)	FLOW LENGTH L (FT)	SURFACE TYPE	FLOW VELOCITY V (FT/S)	TRAVEL TIME T _{SHALLOW} (MIN)	
EX-4	0.170	110	3.63	0.0250	10.0	0.0250	2,200	unpaved	2.55	14.4	24
EX-5	0.170	117	3.63	0.0286	10.0	0.0286	1,700	unpaved	2.73	10.4	20
EX-6	0.170	91	3.63	0.0172	10.0	0.0172	1,700	unpaved	2.12	13.4	23

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DESIGNED: TMW	SCALE: 1"=200'	DATE: 06/08/2021	SHEET 82 OF 189
DRAWN: PTS			

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*AREAS AO-1, AO-2 AND AO-3 ARE FROM WEST FORK RANCH PHASE 9B (PELTON, 2015)(W+2393)

MATCH LINE - STA 59+00

PROPOSED DRAINAGE AREAS						
INLET	AREA (acres)	C	Tc (min)	I100 (in/hr)	Q100 (cfs)	COMMENTS
A-1	0.54	0.67	15	7.98	2.91	
A-2	0.35	0.67	10	9.24	2.18	
A-3	0.57	0.67	15	7.98	3.03	
A-4	0.37	0.67	10	9.24	2.26	
A-5	0.53	0.67	15	7.98	2.81	
A-6	0.50	0.67	15	7.98	2.67	
A-7	0.44	0.67	10	9.24	2.70	
A-8	0.69	0.67	15	7.98	3.66	
A-9	1.37	0.67	15	7.98	7.29	SAG
A-10	0.95	0.67	10	9.24	5.87	SAG
AO-1	2.55	0.67	15	7.98	13.63	Offsite Drainage Area
AO-2	2.00	0.67	15	7.98	10.69	Offsite Drainage Area

REVISIONS		
No.	DESCRIPTION	DATE
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TBPE FIRM #F-312
 3803 PARKWOOD BLVD., STE 800
 FRISCO, TEXAS 75034-8640
 (214) 217-6664

SCALE: 1"=100'

LEGEND

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 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

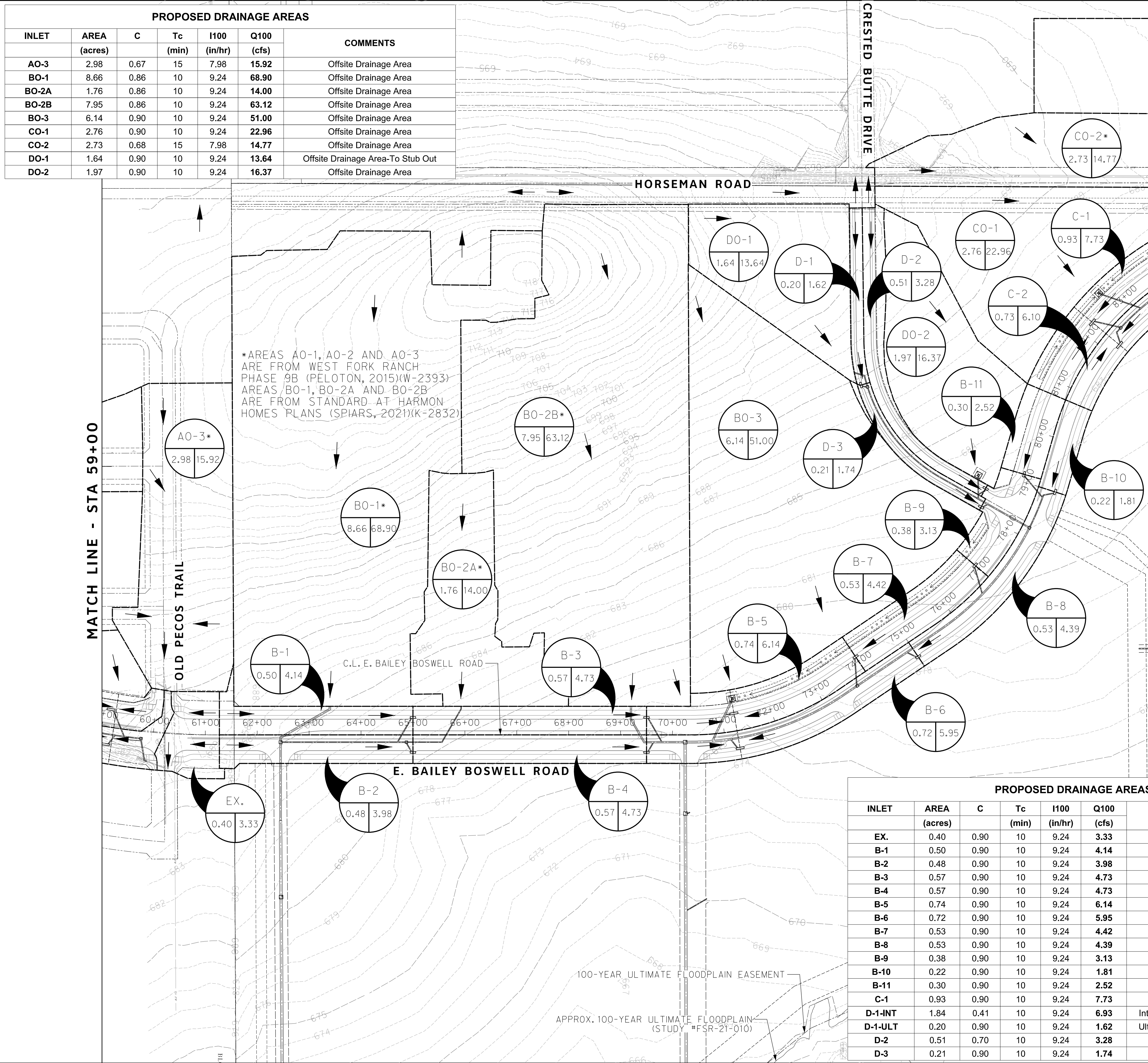
CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD
PROPOSED DRAINAGE AREA MAP BEGIN TO STA 59+00

DESIGNED: TMW	SCALE: 1"=100'	DATE: 06/08/2021	SHEET 83 OF 189
DRAWN: PTS			

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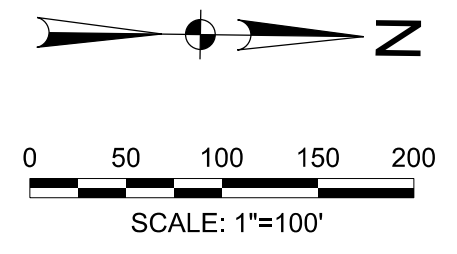


PROPOSED DRAINAGE AREAS						
INLET	AREA (acres)	C	Tc (min)	I100 (in/hr)	Q100 (cfs)	COMMENTS
AO-3	2.98	0.67	15	7.98	15.92	Offsite Drainage Area
BO-1	8.66	0.86	10	9.24	68.90	Offsite Drainage Area
BO-2A	1.76	0.86	10	9.24	14.00	Offsite Drainage Area
BO-2B	7.95	0.86	10	9.24	63.12	Offsite Drainage Area
BO-3	6.14	0.90	10	9.24	51.00	Offsite Drainage Area
CO-1	2.76	0.90	10	9.24	22.96	Offsite Drainage Area
CO-2	2.73	0.68	15	7.98	14.77	Offsite Drainage Area
DO-1	1.64	0.90	10	9.24	13.64	Offsite Drainage Area-To Stub Out
DO-2	1.97	0.90	10	9.24	16.37	Offsite Drainage Area

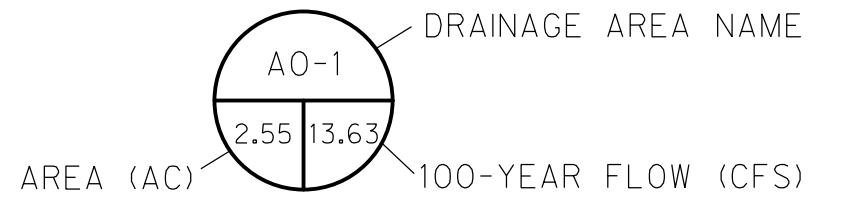
*AREAS AO-1, AO-2 AND AO-3 ARE FROM WEST FORK RANCH PHASE 9B (PELTON, 2015)(W-2393) AREAS BO-1, BO-2A AND BO-2B ARE FROM STANDARD AT HARMON HOMES PLANS (SPIARS, 2021)(K-2832)

PROPOSED DRAINAGE AREAS						
INLET	AREA (acres)	C	Tc (min)	I100 (in/hr)	Q100 (cfs)	COMMENTS
EX.	0.40	0.90	10	9.24	3.33	Onto Old Pecos
B-1	0.50	0.90	10	9.24	4.14	
B-2	0.48	0.90	10	9.24	3.98	
B-3	0.57	0.90	10	9.24	4.73	
B-4	0.57	0.90	10	9.24	4.73	
B-5	0.74	0.90	10	9.24	6.14	SAG
B-6	0.72	0.90	10	9.24	5.95	SAG
B-7	0.53	0.90	10	9.24	4.42	
B-8	0.53	0.90	10	9.24	4.39	
B-9	0.38	0.90	10	9.24	3.13	
B-10	0.22	0.90	10	9.24	1.81	
B-11	0.30	0.90	10	9.24	2.52	
C-1	0.93	0.90	10	9.24	7.73	SAG
D-1-INT	1.84	0.41	10	9.24	6.93	Interim Conditions-Flow onto Roadway
D-1-ULT	0.20	0.90	10	9.24	1.62	Ultimate Conditions-Flow into Stub Out
D-2	0.51	0.70	10	9.24	3.28	
D-3	0.21	0.90	10	9.24	1.74	

REVISIONS		
No.	DESCRIPTION	DATE
1		
2		
3		



LEGEND



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 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD
PROPOSED DRAINAGE AREA MAP
STA 59+00 TO STA 83+50

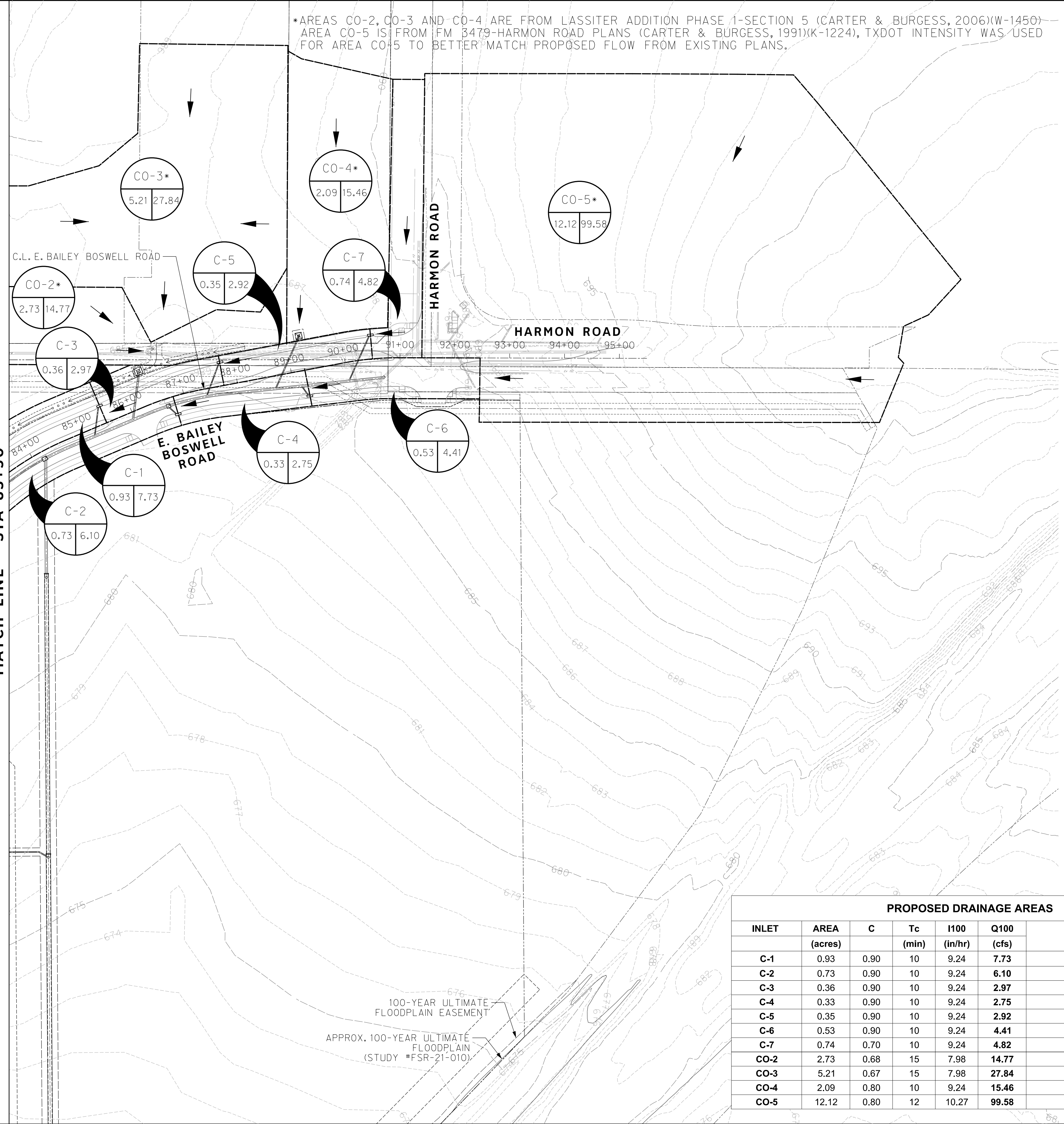
DESIGNED: TMW	SCALE: 1"=100'	DATE: 06/08/2021	SHEET 84 OF 189
DRAWN: PTS			

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8/25/2021 2:56:57 PM I:\420006\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C504-DMAP-42487.dgn

MATCH LINE - STA 83+50

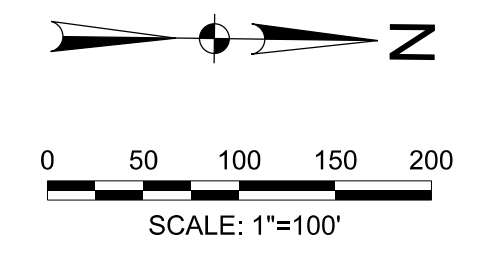
*AREAS CO-2, CO-3 AND CO-4 ARE FROM LASSITER ADDITION PHASE 1-SECTION 5 (CARTER & BURGESS, 2006)(W-1450) AREA CO-5 IS FROM FM 3479-HARMON ROAD PLANS (CARTER & BURGESS, 1991)(K-1224), TXDOT INTENSITY WAS USED FOR AREA CO-5 TO BETTER MATCH PROPOSED FLOW FROM EXISTING PLANS.



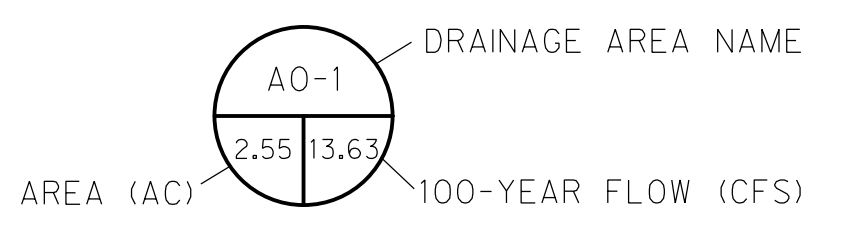
PROPOSED DRAINAGE AREAS						COMMENTS
INLET	AREA (acres)	C	Tc (min)	I100 (in/hr)	Q100 (cfs)	
C-1	0.93	0.90	10	9.24	7.73	SAG
C-2	0.73	0.90	10	9.24	6.10	SAG
C-3	0.36	0.90	10	9.24	2.97	
C-4	0.33	0.90	10	9.24	2.75	
C-5	0.35	0.90	10	9.24	2.92	
C-6	0.53	0.90	10	9.24	4.41	
C-7	0.74	0.70	10	9.24	4.82	
CO-2	2.73	0.68	15	7.98	14.77	Offsite Drainage Area
CO-3	5.21	0.67	15	7.98	27.84	Offsite Drainage Area
CO-4	2.09	0.80	10	9.24	15.46	Offsite Drainage Area
CO-5	12.12	0.80	12	10.27	99.58	Offsite Drainage Area

REVISIONS

No.	DESCRIPTION	DATE
1		
2		
3		



LEGEND



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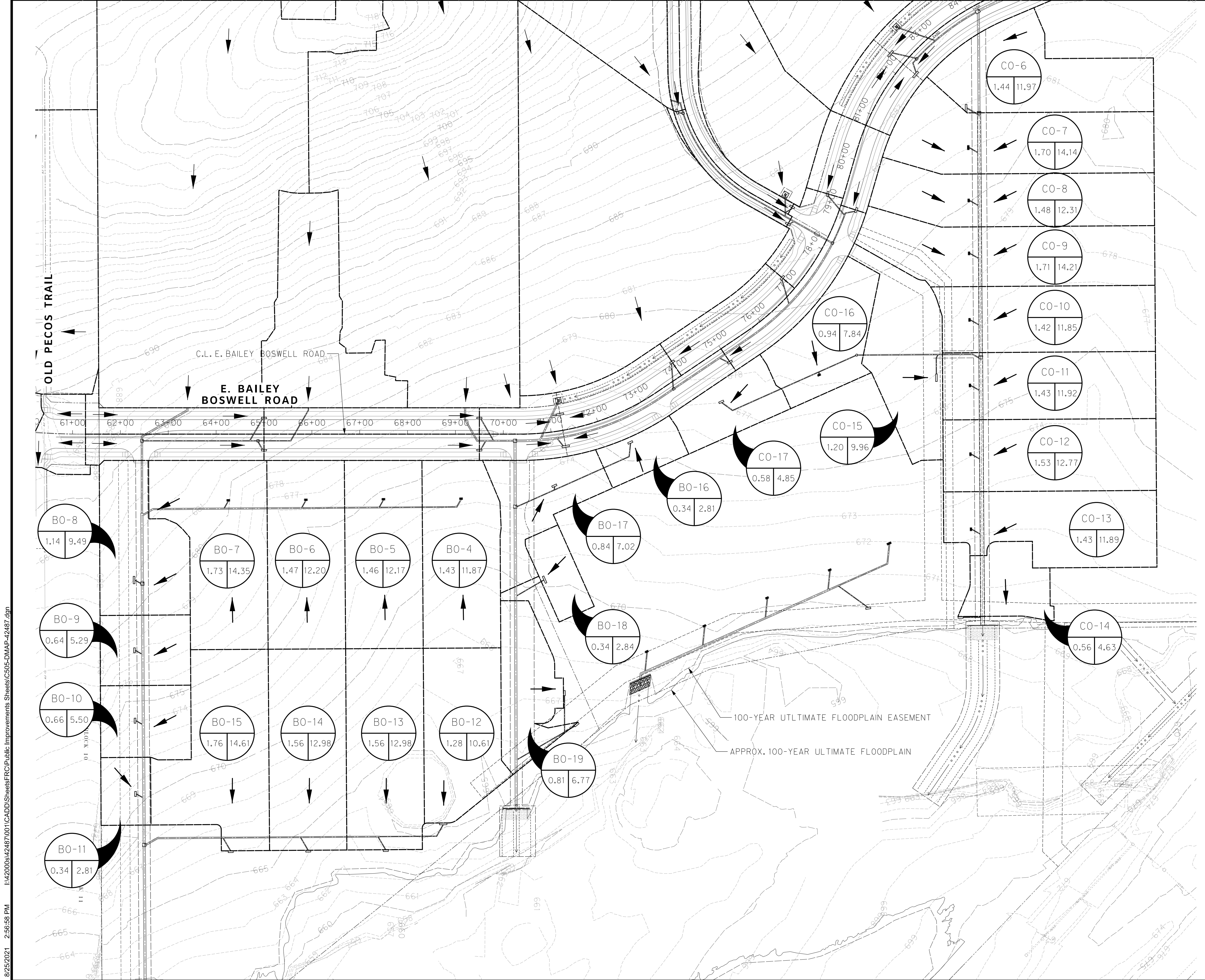
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N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

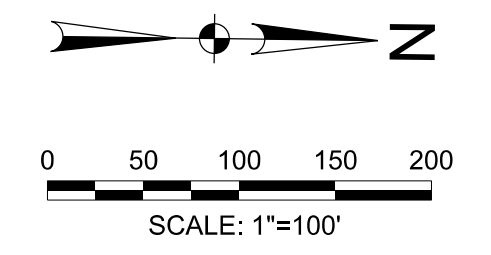
DOE # K-2840
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 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
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 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
 EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD
PROPOSED DRAINAGE AREA MAP
 STA 83+50 TO END

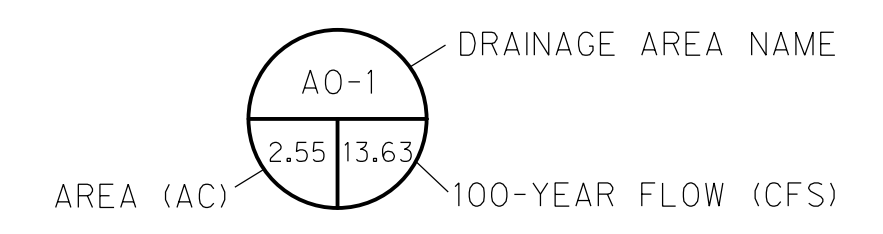
DESIGNED: TMW	SCALE: 1"=100'	DATE: 06/08/2021	SHEET 85 OF 189
DRAWN: PTS			



REVISIONS		
NO.	DESCRIPTION	DATE
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LEGEND



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DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
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TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD
PROPOSED DRAINAGE AREA MAP
SITE DRAINAGE

DESIGNED: TMW	SCALE: 1"=100'	DATE: 06/08/2021	SHEET 86 OF 189
DRAWN: PTS			

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ON GRADE INLET CALCULATIONS

Inlet		Drainage Area				Long Slope 'S'	Cross Slope of Pavement 'Sx'	Depth of Flow 'Yo'	Spread of Flow 'T'	Dry Lane Provided	Width of Depressed Section 'W'	Depth of Depressed Section 'a'	Ratio of Depressed to Total Flow 'Eo'	Equivalent Cross Slope 'Se'	Street Section	Manning's Coefficient 'n'	5-Year Intensity	5-Year Runoff	5-Year Carryover Flow	5-Year Total Gutter Q	100-Year Intensity	100-Year Runoff	100-Year Carryover Flow	100-Year Total Gutter Q	Right-of-Way Capacity	Design Storm	Length Required 'Lr'	Actual Provided Length 'La'	La/Lr	Efficiency 'E'	Inlet Capacity 'Qi'	Carryover Flow
Design	Station	Area	Area	Runoff	Conc. Time																											
Point	Station	No.	(acres)	"c"	(min)	(ft/ft)	(ft/ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(type)	(cfs)	(in/hr)	(cfs)	(cfs)	(cfs)	(in/hr)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(ft)	(ft)		(cfs)	(cfs)		
A-1	47+05	A-1	0.54	0.67	15.00	1.61%	2.00%	0.17	8.73	13.27	1.50	0.33	0.71	0.18	Crown	0.019	4.86	1.77	1.77	7.98	2.91	2.91	207.59	5-Year	6.74	10.00	100%	100%	2.91	0.00		
A-2	47+05	A-2	0.35	0.67	10.00	1.61%	2.00%	0.16	7.90	14.10	1.50	0.33	0.76	0.19	Crown	0.019	5.74	1.36	1.36	9.24	2.18	2.18	207.59	5-Year	5.83	10.00	100%	100%	2.18	0.00		
A-3	48+50	A-3	0.57	0.67	15.00	0.50%	2.00%	0.22	11.04	10.96	1.50	0.33	0.60	0.15	Crown	0.019	4.86	1.85	1.85	7.98	3.03	3.03	207.59	5-Year	5.30	10.00	100%	100%	3.03	0.00		
A-4	49+50	A-4	0.37	0.67	10.00	0.50%	2.00%	0.20	9.97	12.03	1.50	0.33	0.65	0.16	Crown	0.019	5.74	1.41	1.41	9.24	2.26	2.26	207.59	5-Year	4.53	10.00	100%	100%	2.26	0.00		
A-5	50+00	A-5	0.53	0.67	15.00	0.50%	2.00%	0.21	10.72	11.28	1.50	0.33	0.61	0.15	Crown	0.019	4.86	1.71	1.71	7.98	2.81	2.81	207.59	5-Year	5.07	10.00	100%	100%	2.81	0.00		
A-6	51+20	A-6	0.50	0.67	15.00	0.50%	2.00%	0.21	10.53	11.47	1.50	0.33	0.62	0.16	Crown	0.019	4.86	1.63	1.63	7.98	2.67	2.67	207.59	5-Year	4.92	10.00	100%	100%	2.67	0.00		
A-7	52+00	A-7	0.44	0.67	10.00	0.50%	2.00%	0.21	10.65	11.35	1.50	0.33	0.62	0.16	Crown	0.019	5.74	1.68	1.68	9.24	2.70	2.70	207.59	5-Year	5.02	10.00	100%	100%	2.70	0.00		
A-8	52+50	A-8	0.69	0.67	15.00	1.62%	2.00%	0.19	9.51	12.49	1.50	0.33	0.67	0.17	Crown	0.019	4.86	2.23	2.23	7.98	3.66	3.66	395.85	5-Year	7.68	10.00	100%	100%	3.66	0.00		
B-1	65+00	B-1	0.50	0.90	10.00	1.30%	2.00%	0.21	10.44	11.56	1.50	0.33	0.63	0.16	Crown	0.019	5.74	2.57	2.57	9.24	4.14	4.14	319.14	5-Year	7.92	10.00	100%	100%	4.14	0.00		
B-2	65+00	B-2	0.48	0.90	10.00	1.30%	2.00%	0.21	10.29	11.71	1.50	0.33	0.63	0.16	Crown	0.019	5.74	2.47	2.47	9.24	3.98	3.98	319.14	5-Year	7.75	10.00	100%	100%	3.98	0.00		
B-3	69+50	B-3	0.57	0.90	10.00	1.30%	2.00%	0.22	10.98	11.02	1.50	0.33	0.60	0.15	Crown	0.019	5.74	2.94	2.94	9.24	4.73	4.73	319.14	5-Year	8.56	10.00	100%	100%	4.73	0.00		
B-4	69+50	B-4	0.57	0.90	10.00	1.30%	2.00%	0.22	10.98	11.02	1.50	0.33	0.60	0.15	Crown	0.019	5.74	2.94	2.94	9.24	4.73	4.73	319.14	5-Year	8.56	10.00	100%	100%	4.73	0.00		
B-7	74+00	B-7	0.53	0.90	10.00	1.35%	2.00%	0.21	10.63	11.37	1.50	0.33	0.62	0.16	Crown	0.019	5.74	2.74	2.74	9.24	4.42	4.42	325.22	5-Year	8.30	10.00	100%	100%	4.42	0.00		
B-8	75+00	B-8	0.53	0.90	10.00	1.35%	2.00%	0.21	10.61	11.39	1.50	0.33	0.62	0.16	Crown	0.019	5.74	2.73	2.73	9.24	4.39	4.39	325.22	5-Year	8.27	10.00	100%	100%	4.39	0.00		
B-9	77+00	B-9	0.38	0.90	10.00	0.70%	2.00%	0.21	10.57	11.43	1.50	0.33	0.62	0.16	Crown	0.019	5.74	1.95	1.95	9.24	3.13	3.13	234.19	5-Year	5.88	10.00	100%	100%	3.13	0.00		
B-10	79+00	B-10	0.22	0.90	10.00	0.70%	2.00%	0.17	8.61	13.39	1.50	0.33	0.72	0.18	Crown	0.019	5.74	1.13	1.13	9.24	1.81	1.81	234.19	5-Year	4.32	10.00	100%	100%	1.81	0.00		
B-11	79+15	B-11	0.30	0.90	10.00	0.70%	2.00%	0.19	9.74	12.26	1.50	0.33	0.66	0.17	Crown	0.019	5.74	1.56	1.56	9.24	2.52	2.52	234.19	5-Year	5.19	10.00	100%	100%	2.52	0.00		
C-3	85+50	C-3	0.36	0.90	10.00	0.50%	2.00%	0.22	11.03	10.97	1.50	0.33	0.60	0.15	Crown	0.019	5.74	1.84	1.84	9.24	2.97	2.97	197.93	5-Year	5.30	10.00	100%	100%	2.97	0.00		
C-4	86+80	C-4	0.33	0.90	10.00	0.50%	2.00%	0.21	10.72	11.28	1.50	0.33	0.61	0.15	Crown	0.019	5.74	1.71	1.71	9.24	2.75	2.75	197.93	5-Year	5.06	10.00	100%	100%	2.75	0.00		
C-5	87+75	C-5	0.35	0.90	10.00	0.50%	2.00%	0.22	10.97	11.03	1.50	0.33	0.60	0.15	Crown	0.019	5.74	1.81	1.81	9.24	2.92	2.92	197.93	5-Year	5.25	10.00	100%	100%	2.92	0.00		
C-6	89+25	C-6	0.53	0.90	10.00	1.25%	2.00%	0.22	10.78	11.22	1.50	0.33	0.61	0.15	Crown	0.019	5.74	2.74	2.74	9.24	4.41	4.41	312.95	5-Year	8.15	10.00	100%	100%	4.41	0.00		
C-7	90+50	C-7	0.74	0.70	10.00	1.25%	2.00%	0.22	11.14	10.86	1.50	0.33	0.59	0.15	Crown	0.019	5.74	2.99	2.99	9.24	4.82	4.82	312.95	5-Year	8.58	10.00	100%	100%	4.82	0.00		
D-1-INT	3+75	D-1-INT	1.84	0.41	10.00	0.89%	2.00%	0.27	13.61	14.39	1.50	0.33	0.49	0.13	Crown	0.019	5.74	4.31	4.31	9.24	6.93	6.93	264.07	5-Year	9.92	10.00	100%	100%	6.93	0.00		
D-2	6+92	D-2	0.51	0.70	10.00	1.40%	2.00%	0.19	9.44	18.56	1.50	0.33	0.68	0.17	Crown	0.019	5.74	2.04	2.04	9.24	3.28	3.28	331.19	5-Year	7.05	10.00	100%	100%	3.28	0.00		
D-3	7+02	D-3	0.21	0.90	10.00	1.40%	2.00%	0.15	7.45	20.55	1.50	0.33	0.78	0.19	Crown	0.019	5.74	1.08	1.08	9.24	1.74	1.74	331.19	5-Year	4.99	10.00	100%	100%	1.74	0.00		

SAG INLET CALCULATIONS

Inlet		Drainage Area				Manning's Coefficient For Pavement	Crown Slope of Pavement 'Sx'	Long Slope 'S'	100-Year Intensity	100-Year Runoff	100-year C arrayover Flow	Right-of-Way Capacity	100-year Total Flow	Depth of Flow 'y0'	Depth of Depressi on 'a'	Depth of Flow at Opening 'y'	Capacity of Inlet 'Q/L'	Required Length of Inlet 'L'	Actual Length Provided 'L'	Capacity of Inlet 'Q'	Capacity of Inlet After 50% Clogging 'Q'	100-year C arrayover Flow	% Q100 Captured	Comments
Design	Inlet	Station	Area	Area	Runoff																			
Point	No.		No.	(acres)	"c"	(min)	"n"	(ft/ft)	(ft/ft)	(in/hr)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(cfs/ft)	(ft)	(ft)	(cfs)	(cfs)	"q" (cfs)	(%)	
A-9	2	59+12.83	A-9	1.37	0.67	15.00	0.019	2.00%	1.34%	10.00	7.29	324.02	7.29	0.31	0.33	0.64	1.17	6.21	15.00	17.62	8.81	0.00	100%	
A-10		59+12.83	A-10	0.95	0.67	10.00	0.019	2.00%	1.34%	10.00	5.87	324.02	5.87	0.28	0.33	0.62	1.11	5.29	15.00	16.64	8.32	0.00	100%	
B-5		71+24.83	B-5	0.74	0.90	10.00	0.019	2.00%	1.40%	10.00	6.14	331.19	6.14	0.28	0.33	0.62	1.12	5.50	15.00	16.74	8.37	0.00	100%	
B-6		71+24.83	B-6	0.72	0.90	10.00	0.019	2.00%	1.40%	10.00	5.95	331.19	5.95	0.28	0.33	0.61	1.11	5.37	15.00	16.60	8.30	0.00	100%	
C-1		82+25	C-1	0.93	0.70	10.00	0.019	2.00%	0.50%	10.00	7.73	197.93	7.73	0.38	0.33	0.71	1.37	5.63	15.00	20.60	10.30	0.00	100%	
C-2		82+25	C-2	0.73	0.90	10.00	0.019	2.00%	0.50%	10.00	6.10	197.93	6.10	0.34	0.33	0.68	1.28	4.76	15.00	19.23	9.61	0.00	100%	

WYE INLET CALCULATIONS

Interim or Ultimate?	Inlet No.	AREA (acres)	C	SHEET FLOW				SHALLOW CONCENTRATED FLOW				Tc (min)	I100 (in/hr)	Q (cfs)	Max Ponding Depth (ft)	Required Perimeter	Clogging Factor	Actual Required Perimeter	Inlet Size	Provided Perimeter (ft)		
				Manning's n	Flow Length L (ft)	2-YR, 24-HR Rainfall Depth P (in)	Slope S (ft/ft)	Travel Time Tsheet (min)	Slope S (ft/ft)	Flow Length L (ft)	Surface Type										Flow Velocity V (ft/s)	Travel Time Tshallow (min)
Interim	BO-3	6.14	0.30	0.170	132	3.63	0.0364	10.0	0.0364	742	unpaved	3.08	4.02	14.02	8.19	15.09	1.00	5.03	50%	10.06	4'X4'	16
Interim	CO-1	2.76	0.30	0.170	105	3.63	0.0227	10.0	0.0227	470	unpaved	2.43	3.22	13.22	8.38	6.94	1.00	2.31	50%	4.63	4'X4'	16
Interim	CO-4	2.09	0.30	0.170	62	3.63	0.0080	10.0	0.0080	500	unpaved	1.44	5.77	15.77	7.81	4.90	1.00	1.63	50%	3.27	4'X4'	16
Interim	DO-2	1.97	0.30	0.170	132	3.63	0.0366	10.0	0.0366	742	unpaved	3.09	4.02	13.77	8.25	4.87	1.00	1.62	50%	3.25	4'X4'	16
Ultimate	CO-2	7.94	0.67											15.00	7.98	42.43	1.00	14.14	50%	28.29	6'X6'	24

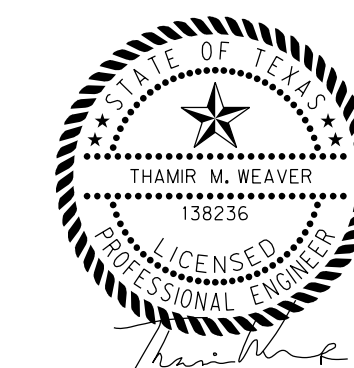
Y Inlet calculations based on ISWM Figure 1.14

RIPRAP CALCULATIONS

Name	Culvert Height(ft)	Culvert Width (ft)	Ult. Flow (cfs)	Ult. Velocity(fps)	Factor-ULT	D50 (in)	L Rip-rap-ULT (ft)
B-1	2.5	2.5	201.9	10.3	1.74	9.07	26
B-2	2.5	2.5	181.4	9.2	1.61	8.60	23
C-1	7.0	6.0	297.4	6.7	1.25	7.34	30

REVISIONS

NO.	DESCRIPTION	DATE
1		
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Main data table with columns for Station, Pipe Length, Drainage Area, Time of Concentration, Design Conduit, HGL, Headloss Calculations, Invert Elevation, and Comments. It contains detailed hydraulic data for various pipe segments and manholes.

REVISIONS

Table with 3 columns: No., Description, Date. It lists revision details for the document.



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CONSTRUCTION NOTES

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TXU ENERGY 1-800-233-2133
SBC TELEPHONE (817) 338-6819
CHARTER COMM. (817) 509-6212 EXT. 3363
ALL OTHER FACILITIES 1-800-DIG-1E55

HORIZONTAL & VERTICAL CONTROL

Table with 3 columns: CONTROL POINT #, SET 'X-CUT', ELEVATION. It provides control point data for horizontal and vertical alignment.

DOE # K-2840
CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD HYDRAULIC CALCULATIONS

Table with 4 columns: DESIGNED, DRAWN, SCALE, SHEET. It contains project metadata and sheet information.

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Main data table with columns for Station, Pipe Length, Drainage Area, Time of Concentration, Design Conduit, HGL, Headloss Calculations, Invert Elevation, and Comments. Includes sub-sections for LINE C-1, LINE C-2, and LINE D-1.

REVISIONS

Table with 3 columns: NO., DESCRIPTION, DATE. Contains revision entries 1, 2, and 3.



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TXU ENERGY 1-800-233-2133
SBC TELEPHONE (817) 338-6819
CHARTER COMM. (817) 509-6272 EXT. 3363
ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

Table with 3 columns: CONTROL POINT #, SET 'X-CUT' coordinates (N, E, ELEV), and CONTROL POINT #, SET 'PK' NAIL coordinates (N, E, ELEV).

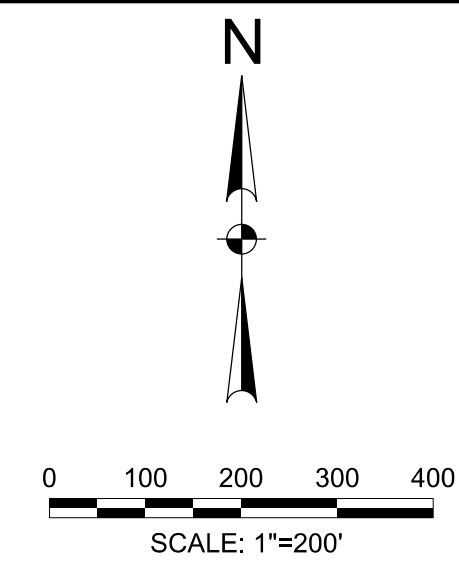
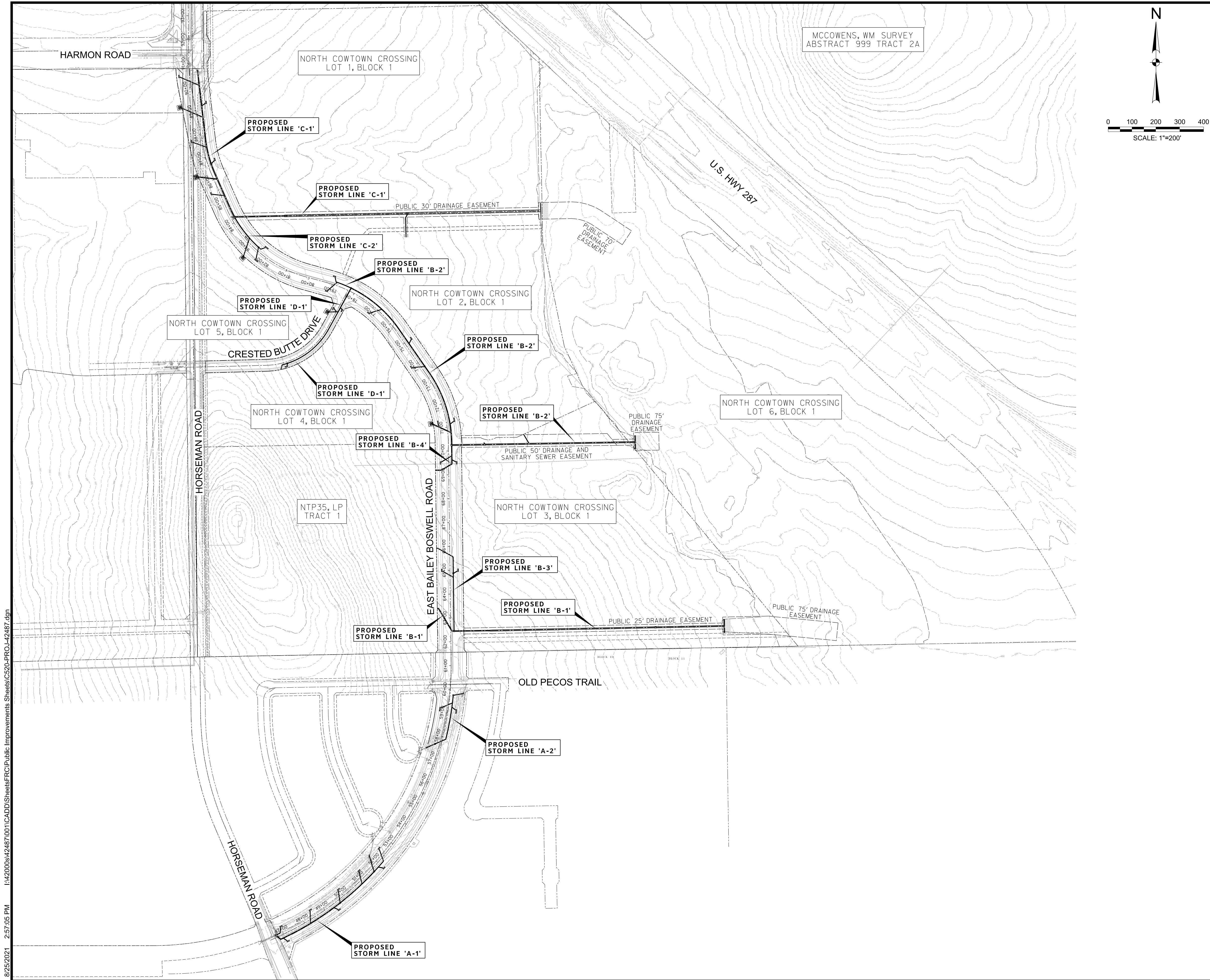
DOE # K-2840
CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXX
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD HYDRAULIC CALCULATIONS

Table with 4 columns: DESIGNED: TMW, SCALE: N.T.S., DATE: 06/08/2021, SHEET: 89 OF 189.



MCCOWENS, WM SURVEY
ABSTRACT 999 TRACT 2A

REVISIONS

No.	DESCRIPTION	DATE
1		
2		
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LEGEND



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 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT
 SERVICES**

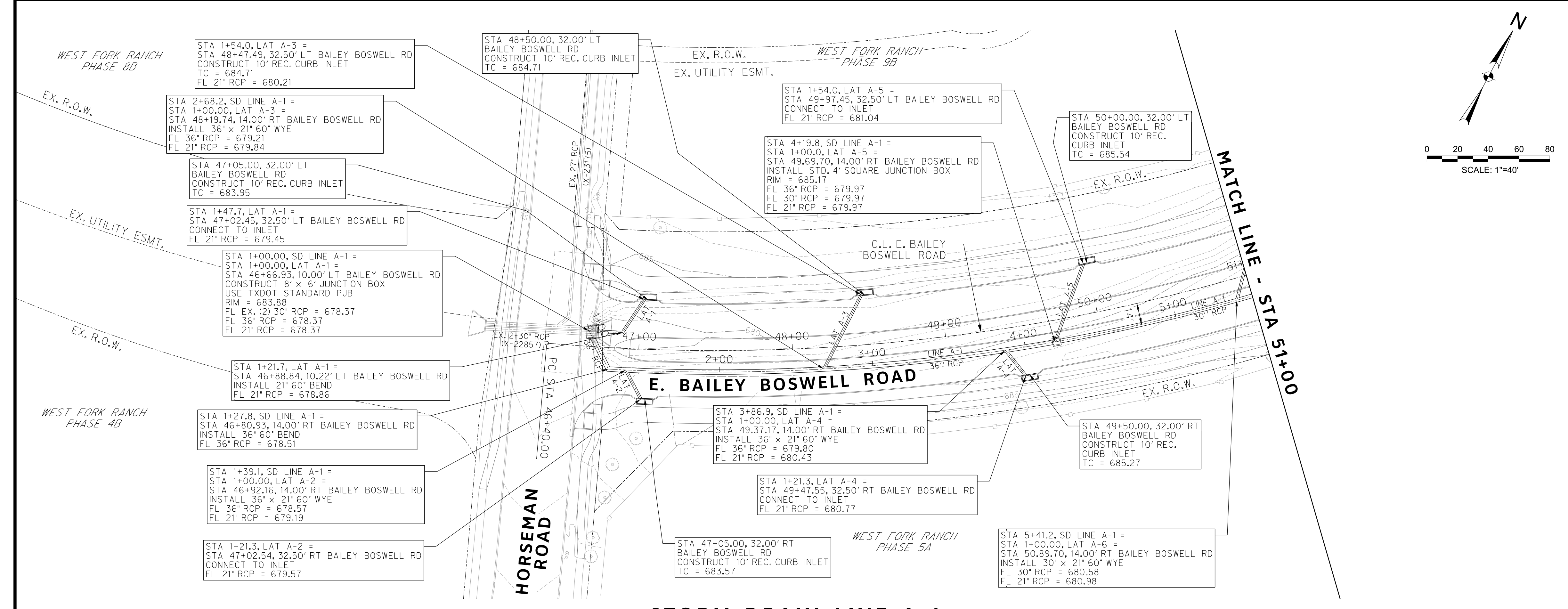
**TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 PROJECT LAYOUT**

STORM DRAIN

DESIGNED: TMW	SCALE: 1"=200'	DATE: 06/08/2021	SHEET 90 OF 189
DRAWN: PTS			

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 TBPE FIRM #F-312
 3803 PARKWOOD BLVD., STE 800
 FRISCO, TEXAS 75034-8840
 (214) 217-6954

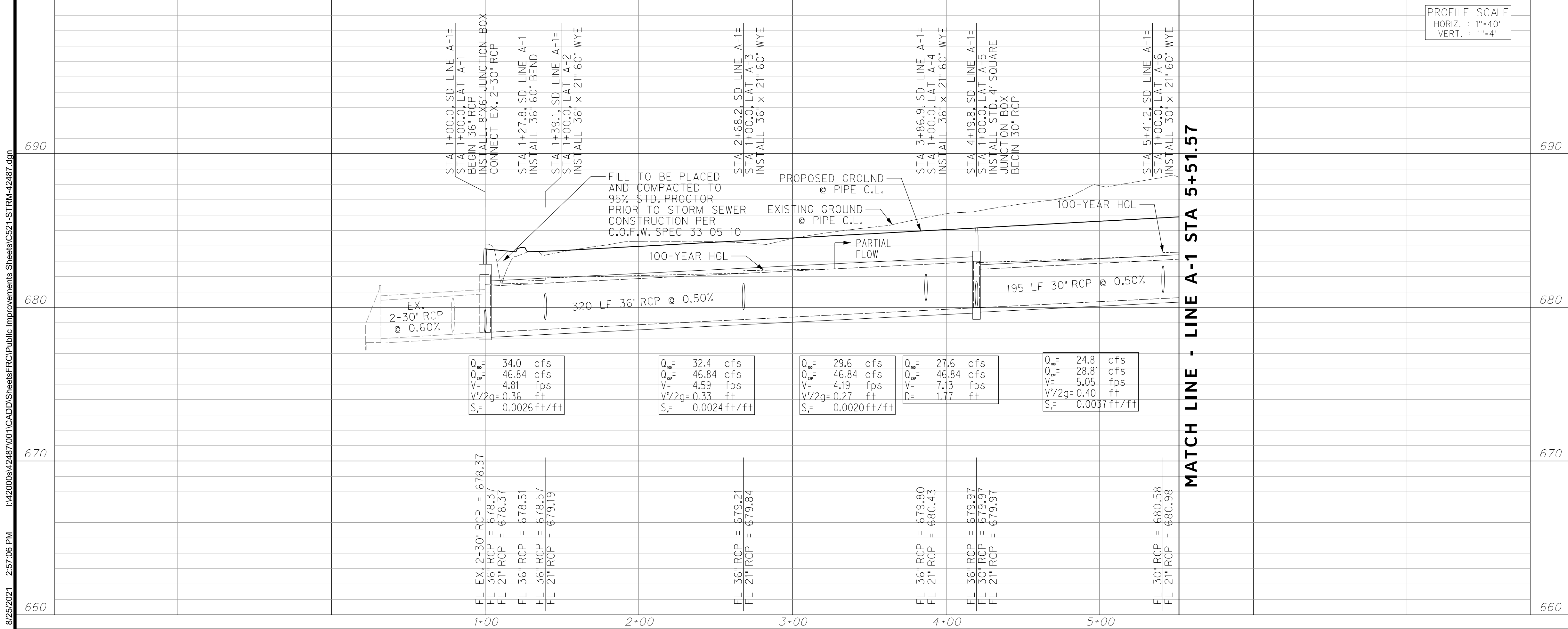
STORM DRAIN LEGEND

- PROPOSED CURB INLET
- PROPOSED DROP INLET W/ APRON
- PROPOSED STORM DRAIN
- PROPOSED MANHOLE
- PROPOSED RIPRAP

- NOTES:**
- FOR CURB INLETS 15' OR GREATER CONTRACTOR SHALL NOT CONSTRUCT SUPPORT WALL ABOVE LATERAL CONNECTION POINT.
 - ALL LATERAL AND TRUNK LINE WYE CONNECTIONS ARE 60° UNLESS OTHERWISE NOTED.
 - REINFORCED CONCRETE PIPES AND REINFORCED CONCRETE BOX CULVERTS TO BE PRECAST UNLESS OTHERWISE NOTED.
 - ALL RCP IS 21" UNLESS OTHERWISE NOTED.

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STORM DRAIN LINE A-1



CONSTRUCTION NOTES

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 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

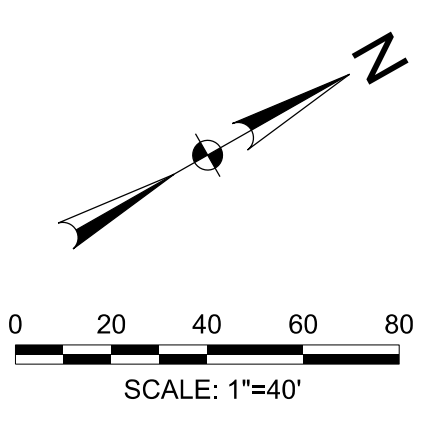
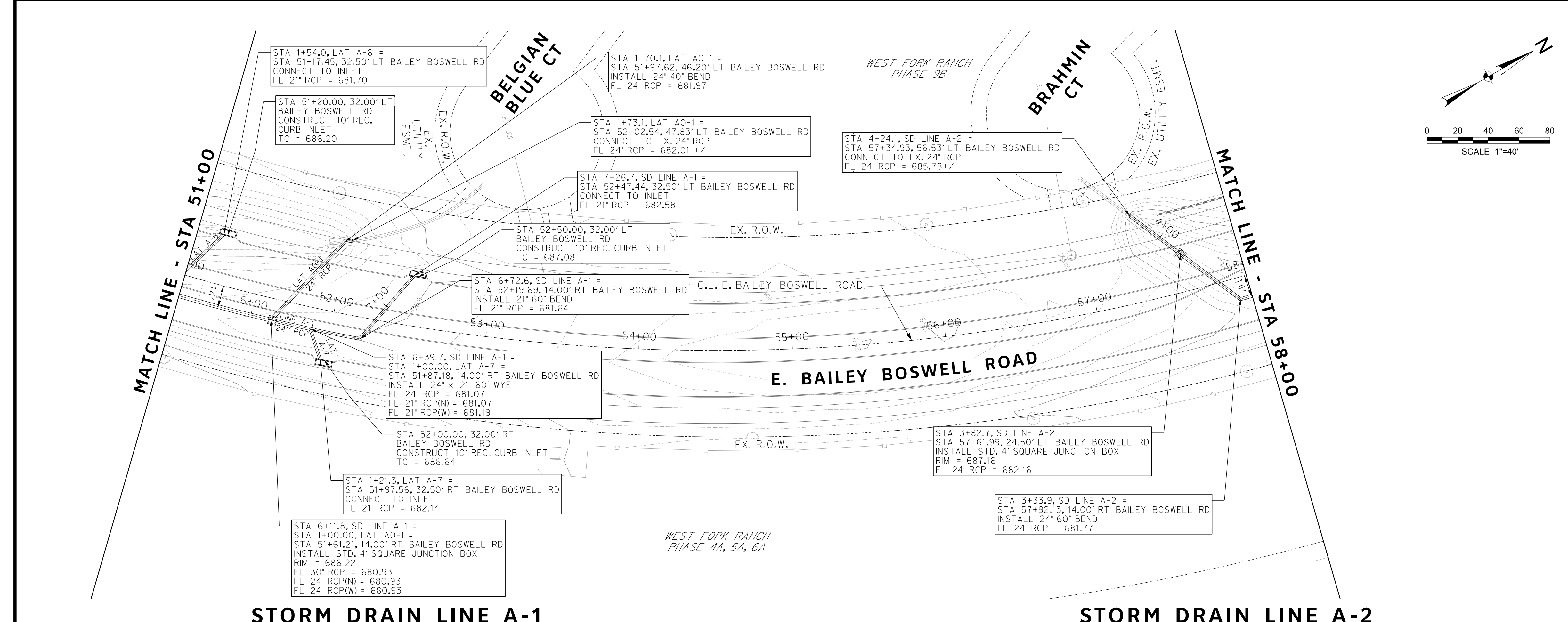
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
STORM DRAIN PLAN
 BEGIN TO STA 51+00

PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 91 OF 189
DRAWN: PTS			

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STORM DRAIN LEGEND

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- PROPOSED MANHOLE
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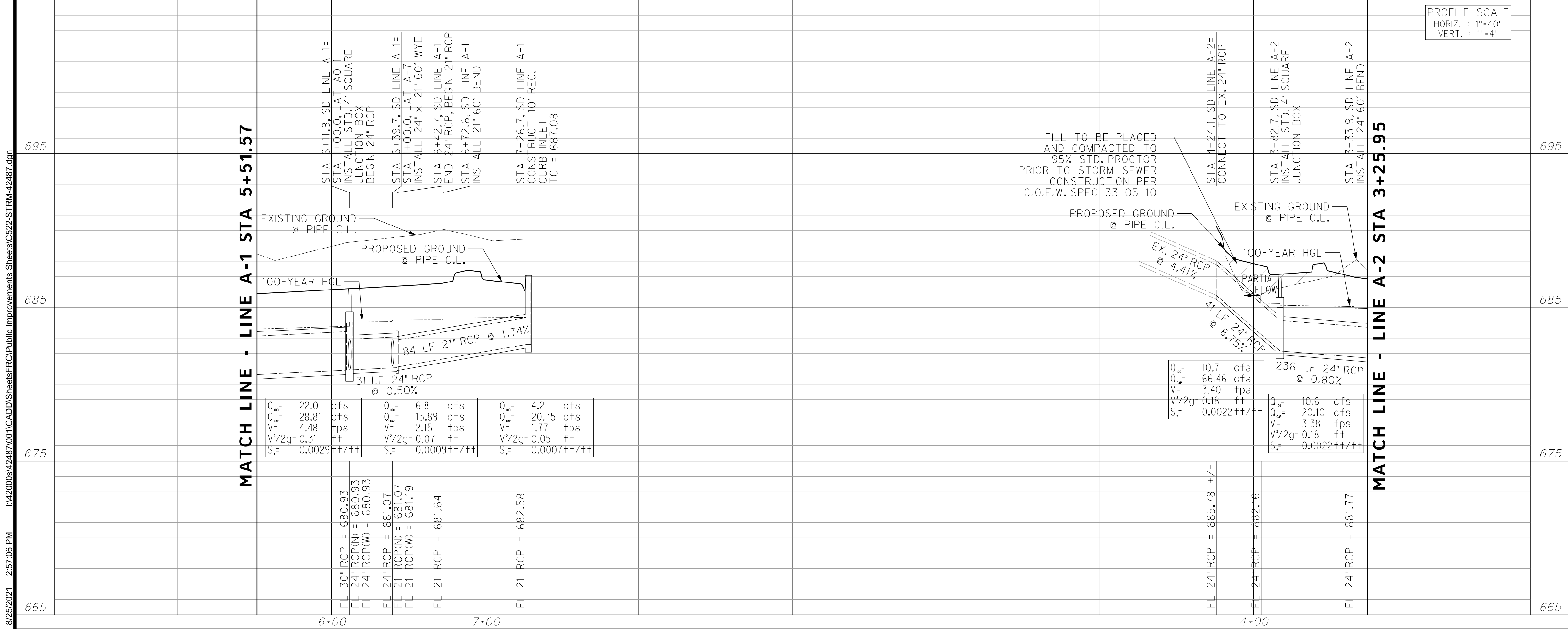


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STORM DRAIN LINE A-1

STORM DRAIN LINE A-2

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



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DOE # K-2840
CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
STORM DRAIN PLAN
STA 51+00 TO STA 58+00

PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 92 OF 189
DRAWN: PTS			

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REVISIONS

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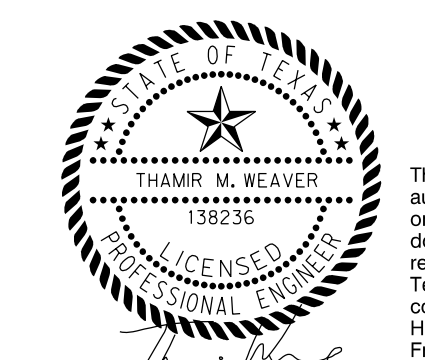


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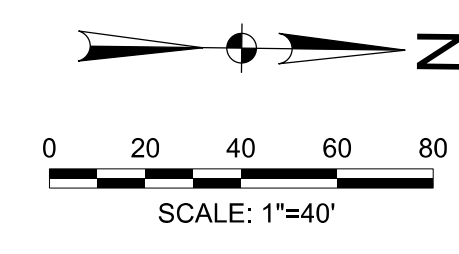
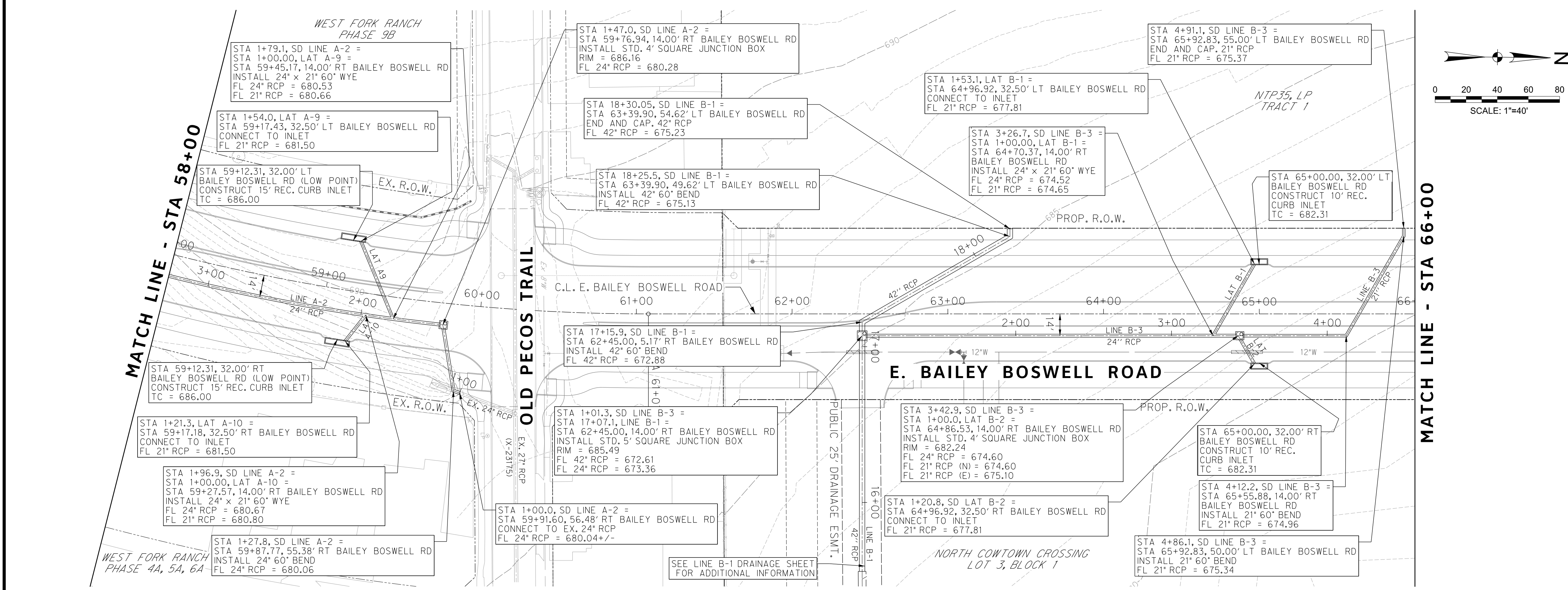
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CITY PROJECT # 103320	MAPSCO NO.
TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX	119E AND 119F
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX	
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX	
MAP NO. XXXX-XXX	

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
STORM DRAIN PLAN
 STA 58+00 TO STA 66+00

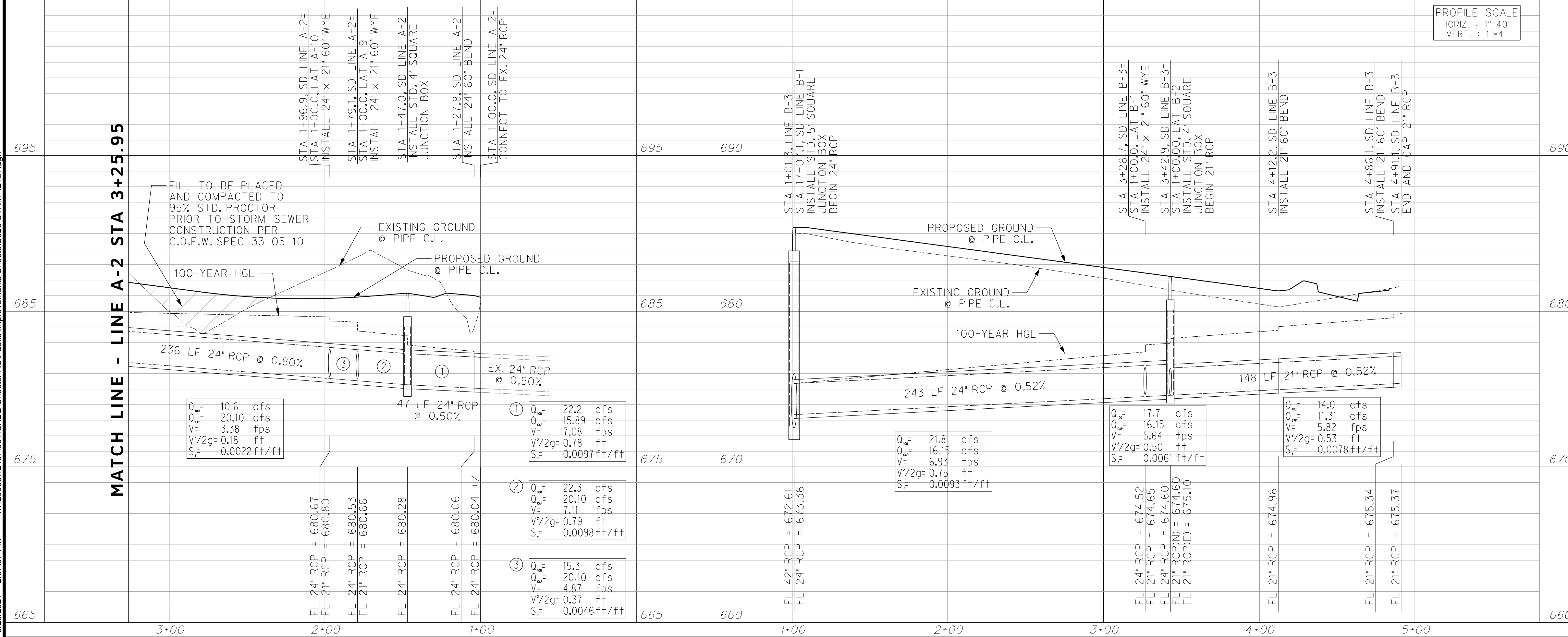
PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 93 OF 189
DRAWN: PTS			



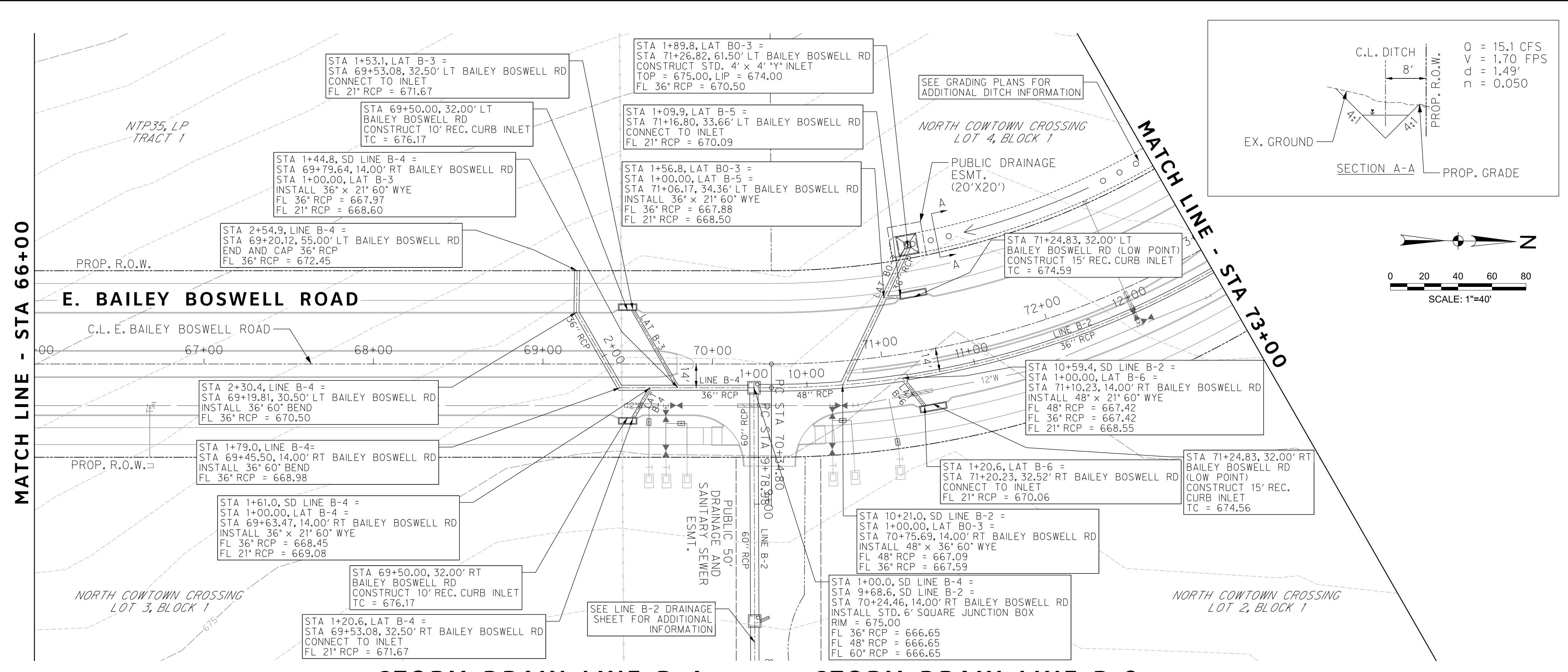
STORM DRAIN LINE A-2

STORM DRAIN LINE B-3



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

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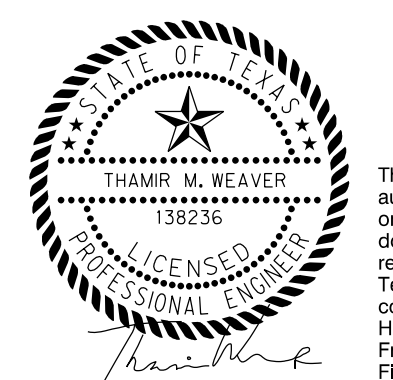
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STORM DRAIN LEGEND

- PROPOSED CURB INLET
- PROPOSED DROP INLET W/ APRON
- PROPOSED STORM DRAIN
- PROPOSED MANHOLE
- PROPOSED RIPRAP

- NOTES:**
- FOR CURB INLETS 15' OR GREATER CONTRACTOR SHALL NOT CONSTRUCT SUPPORT WALL ABOVE LATERAL CONNECTION POINT.
 - ALL LATERAL AND TRUNK LINE WYE CONNECTIONS ARE 60" UNLESS OTHERWISE NOTED.
 - REINFORCED CONCRETE PIPES AND REINFORCED CONCRETE BOX CULVERTS TO BE PRECAST UNLESS OTHERWISE NOTED.
 - ALL RCP IS 21" UNLESS OTHERWISE NOTED.



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CONSTRUCTION NOTES

NOTE: ALL DIMENSIONS AND STATION/OFFSETS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED ON PLANS.
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 AT&T 1-800-878-8711
 FORT WORTH WATER DEPT.-FIELD OPERATIONS WATER (817) 925-2360
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 FORT WORTH T&PW (817) 871-8100
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 ONCOR GAS & ELECTRIC (817) 215-6214
 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

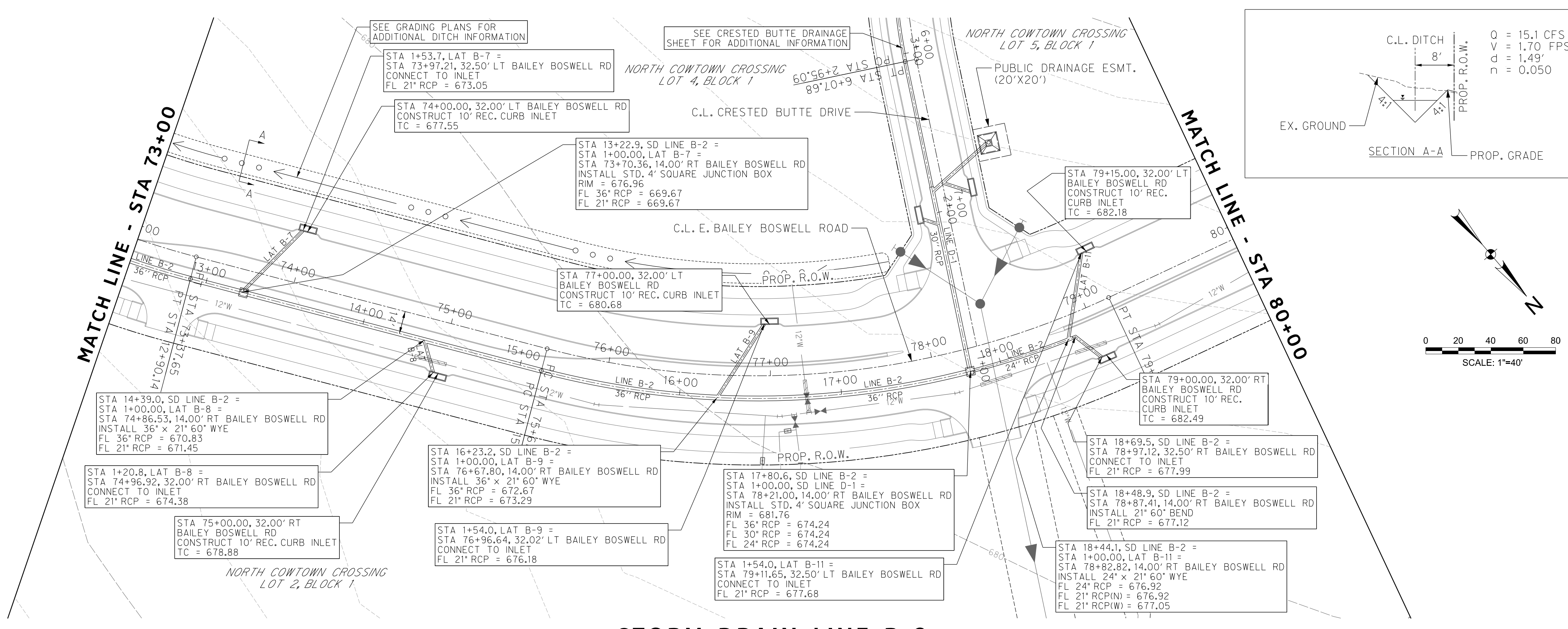
**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES**
**TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 STORM DRAIN PLAN
 STA 66+00 TO STA 73+00**

PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 94 OF 189
DRAWN: PTS			

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STORM DRAIN LEGEND

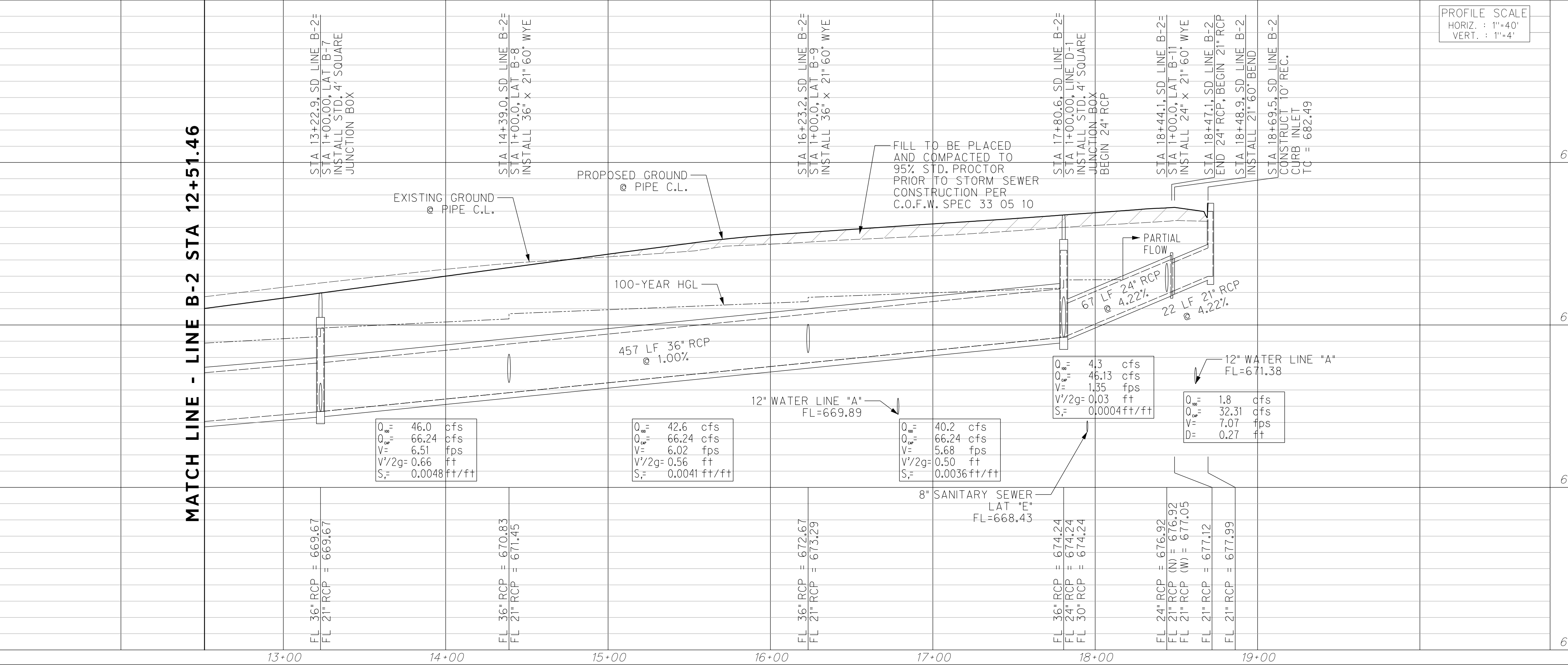
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- PROPOSED RIPRAP

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STORM DRAIN LINE B-2



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 - SBC TELEPHONE (817) 338-6819
 - CHARTER COMM. (817) 509-6272 EXT. 3363
 - ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

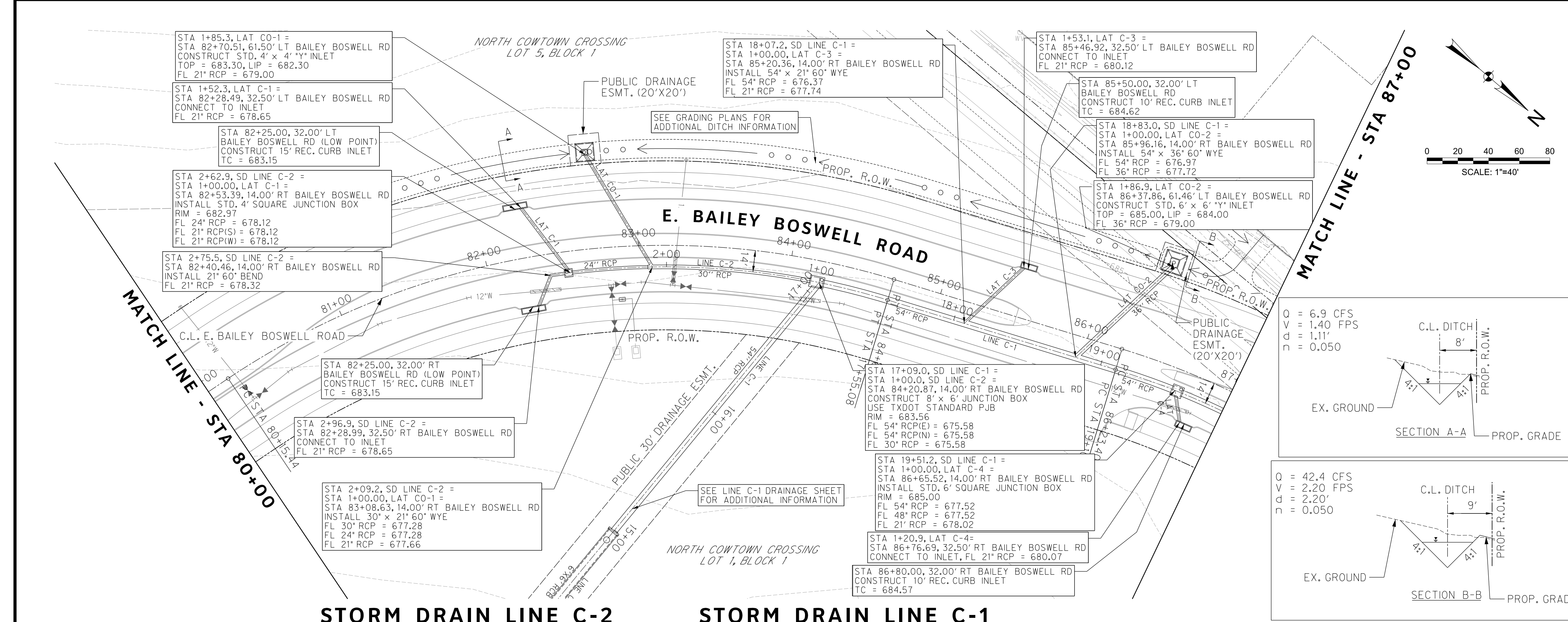
**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES**

**TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 STORM DRAIN PLAN
 STA 73+00 TO STA 80+00**

PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 95 OF 189
DRAWN: PTS			



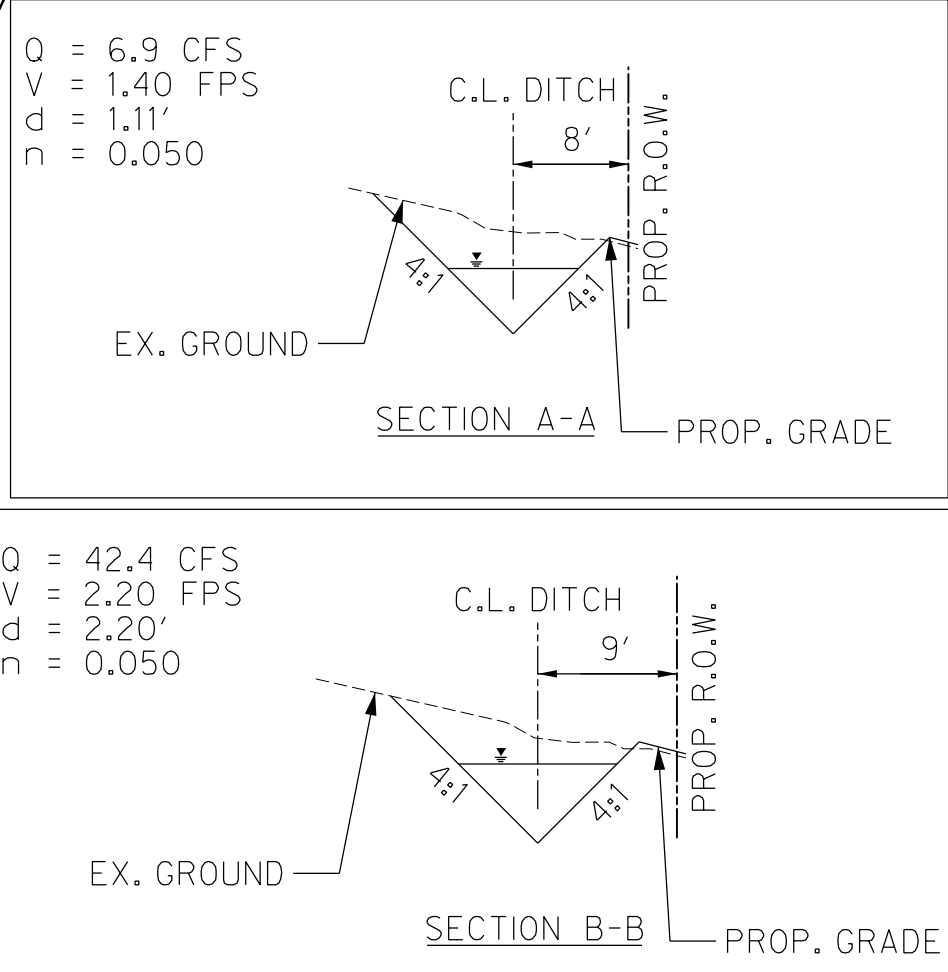
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STORM DRAIN LEGEND

- PROPOSED CURB INLET
- PROPOSED DROP INLET W/ APRON
- PROPOSED STORM DRAIN
- PROPOSED MANHOLE
- PROPOSED RIPRAP

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STORM DRAIN LINE C-2 STORM DRAIN LINE C-1

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HORIZONTAL & VERTICAL CONTROL

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N: 7006672.75	N: 7010405.95	N: 7008953.42
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ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXX-XXXXXXXXXX
 WATER PROJECT # PXXX-XXXXX-XXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXX-XXXXXXXXXX
 MAP NO. XXXX-XXX

**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES**

**TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 STORM DRAIN PLAN
 STA 80+00 TO STA 87+00**

PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 96 OF 189
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STORM DRAIN LEGEND

- PROPOSED CURB INLET
- PROPOSED DROP INLET W/ APRON
- PROPOSED STORM DRAIN
- PROPOSED MANHOLE
- PROPOSED RIPRAP

NOTES:

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 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97

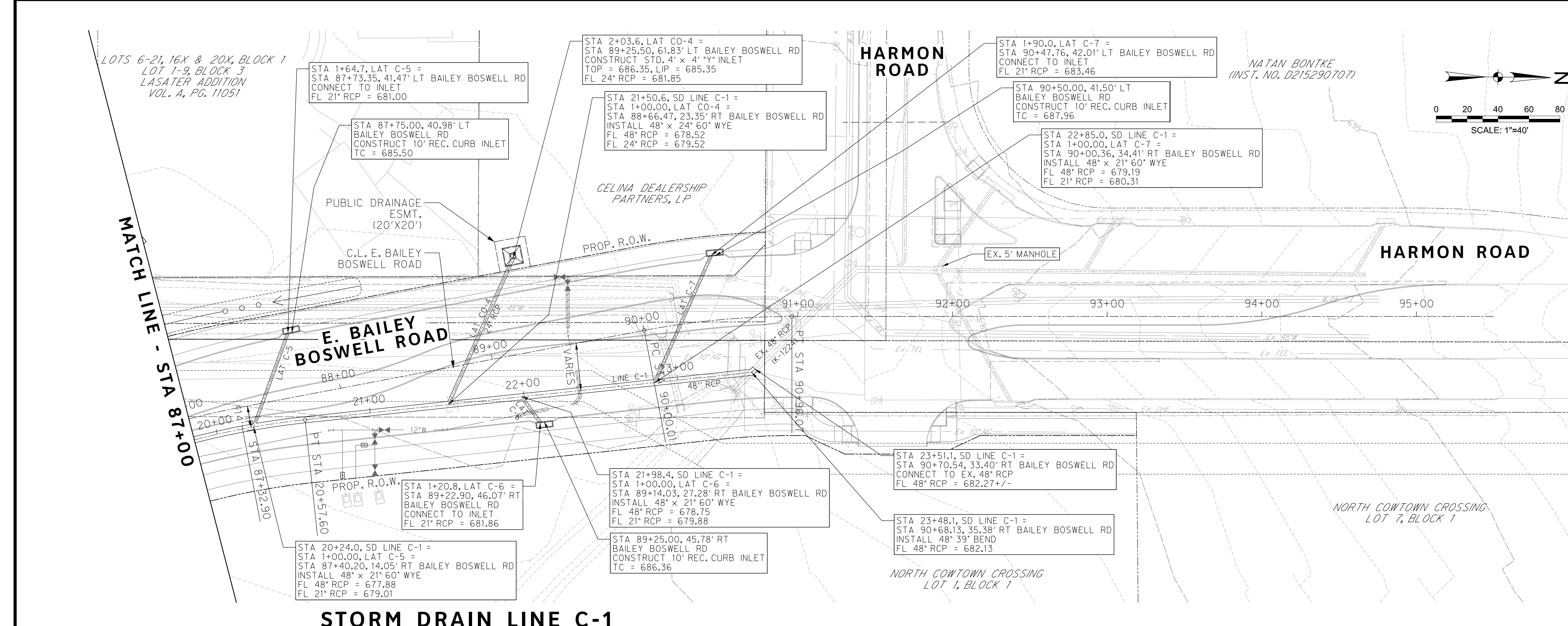
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 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

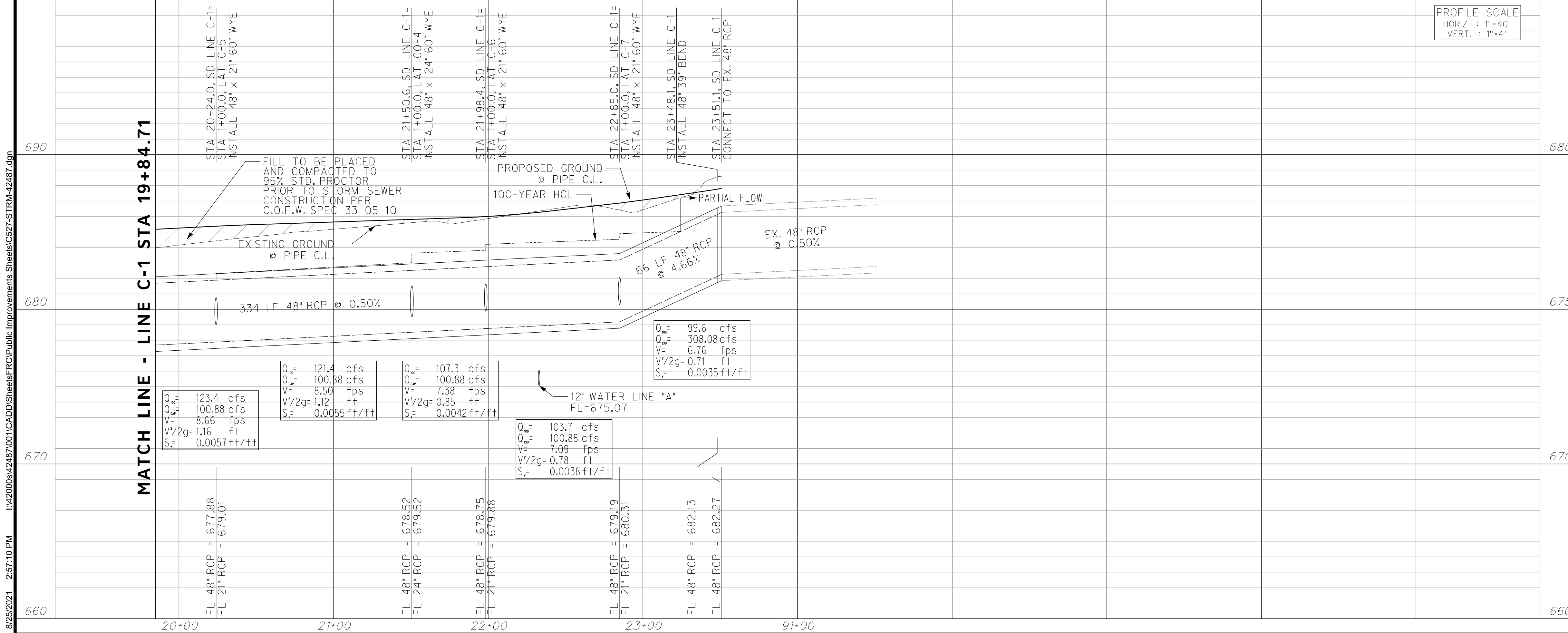
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
STORM DRAIN PLAN
 STA 87+00 TO END

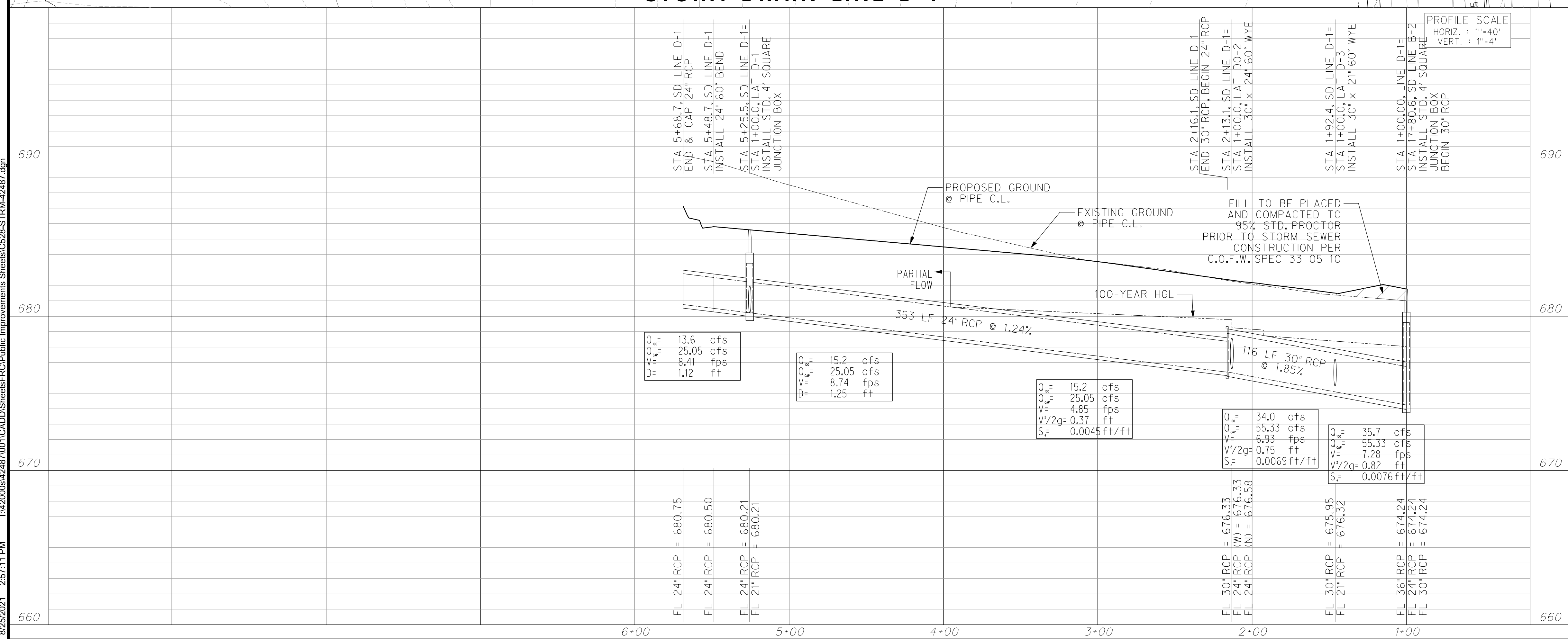
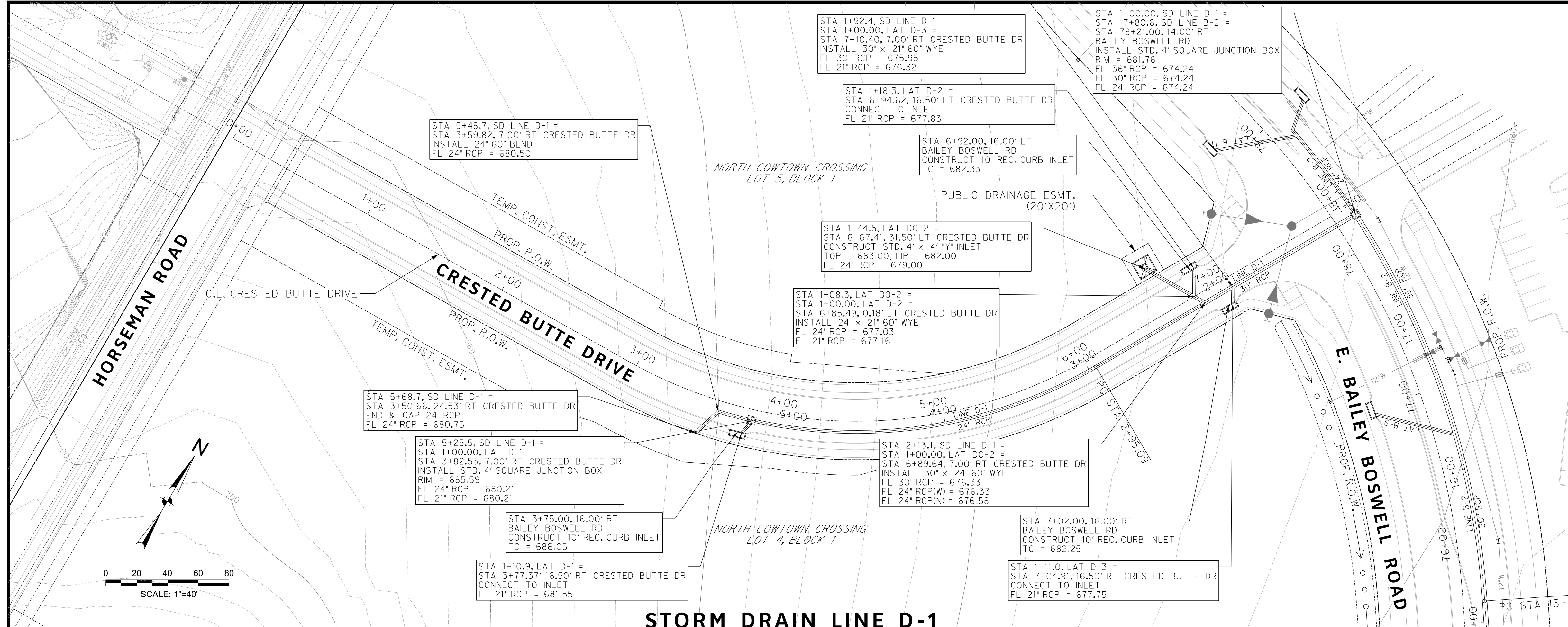
PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 97 OF 189
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STORM DRAIN LINE C-1





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HALFF
 TBPE FIRM #F-312
 3803 PARKWOOD BLVD., STE 800
 FRISCO, TEXAS 75034-8840
 (214) 217-6954

STORM DRAIN LEGEND

- PROPOSED CURB INLET
- PROPOSED DROP INLET W/ APRON
- PROPOSED STORM DRAIN
- PROPOSED MANHOLE
- PROPOSED RIPRAP

NOTES:

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 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
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DOE # K-2840
 CITY PROJECT # 103320 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX MAPSCO NO. 119E AND 119F
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 MAP NO. XXXX-XXX

**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES**

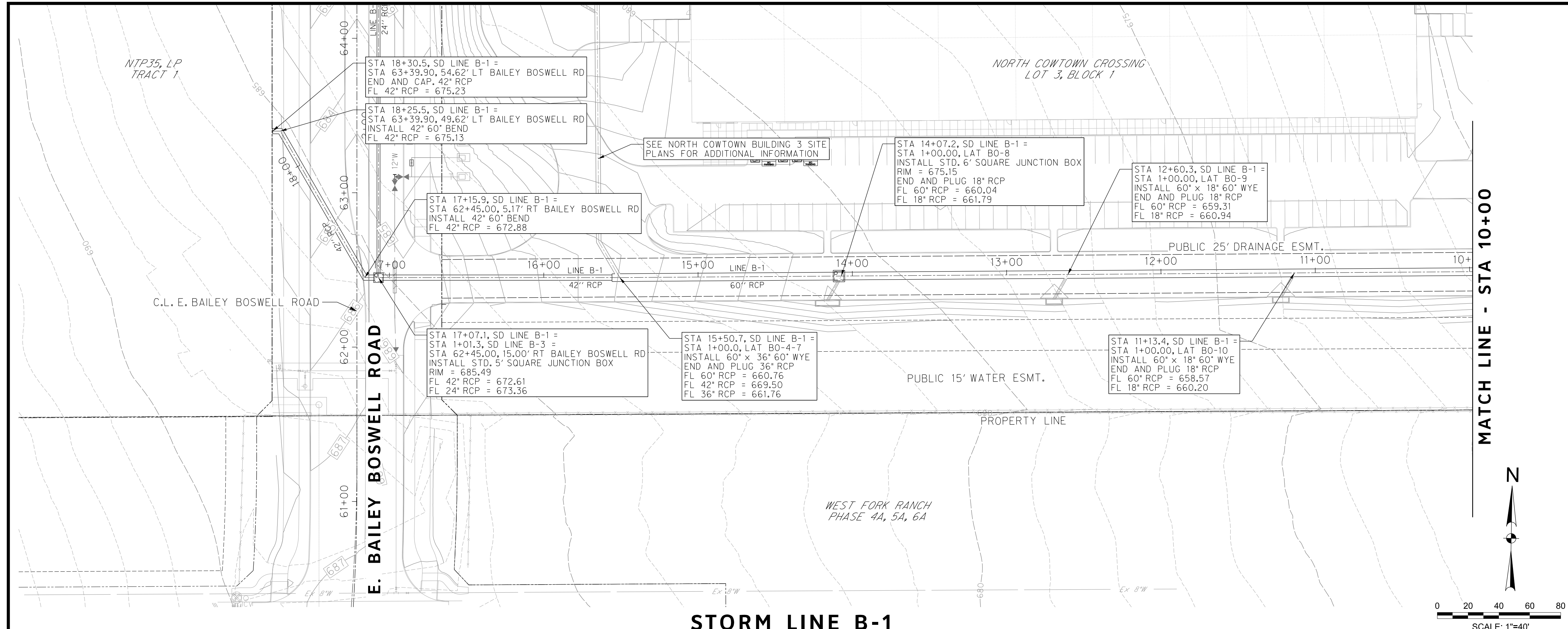
**TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 STORM DRAIN PLAN
 CRESTED BUTTE DRIVE - LINE D**

PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 98 OF 189
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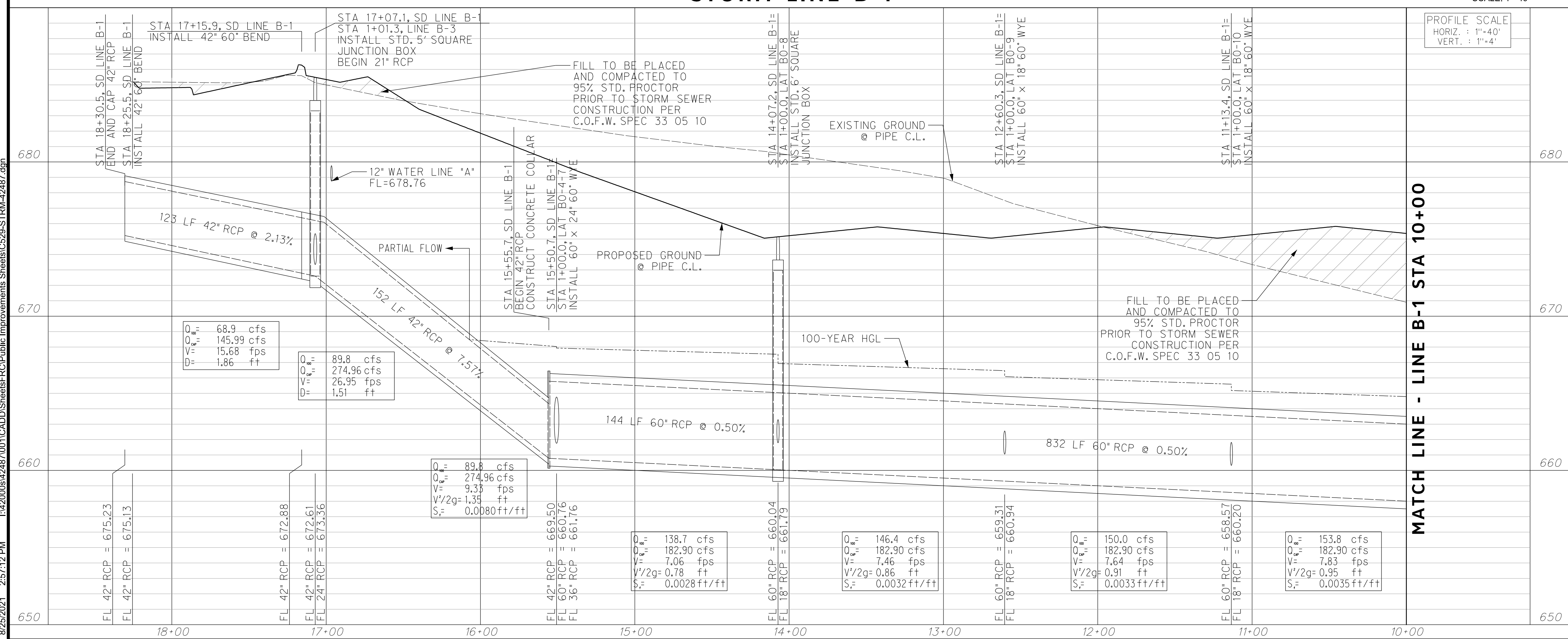
STORM DRAIN LEGEND

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DOE # K-2840
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CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

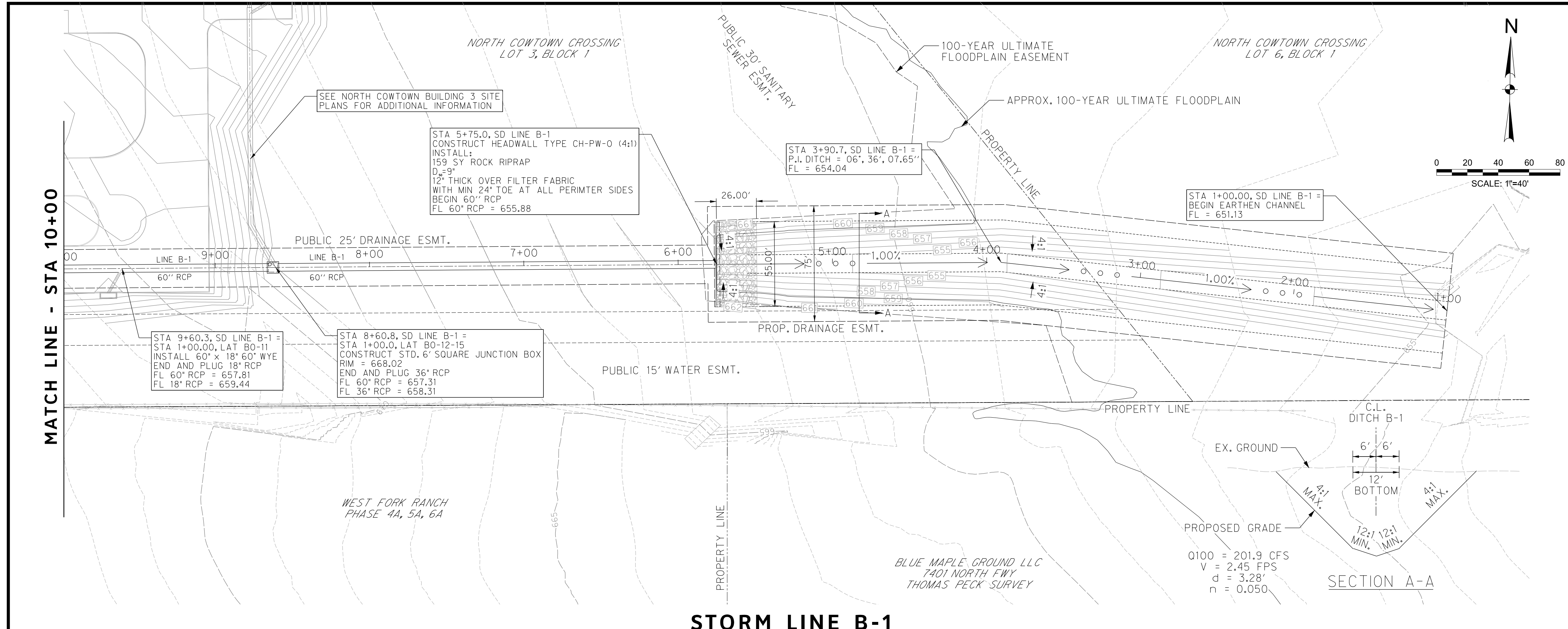
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
STORM DRAIN PLAN
LINE B-1 - BEGIN TO STA 10+00

PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 99 OF 189
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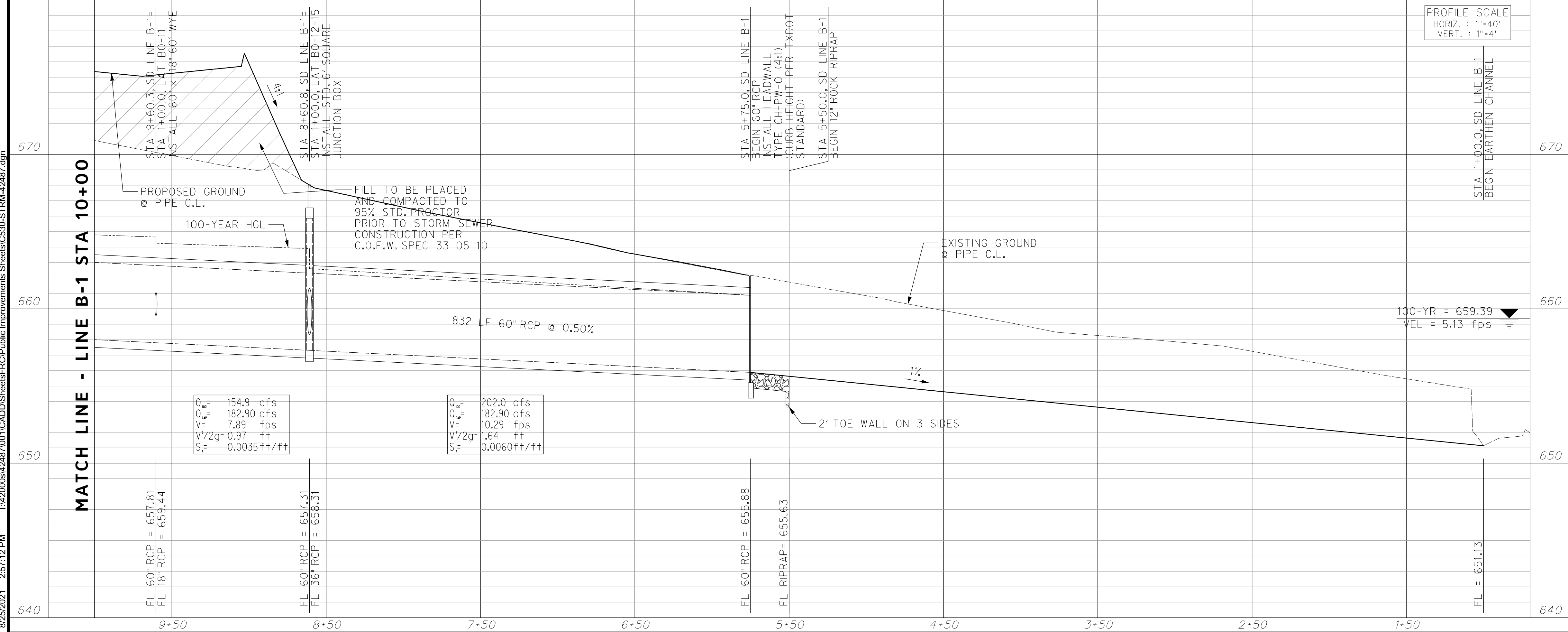
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STORM LINE B-1



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 FORT WORTH WATER DEPT.-FIELD OPERATIONS LOCATE (817) 392-6296
 FORT WORTH T&PW (817) 871-8100
 ATMOS ENERGY (817) 215-4366
 ONCOR GAS & ELECTRIC (817) 215-6214
 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

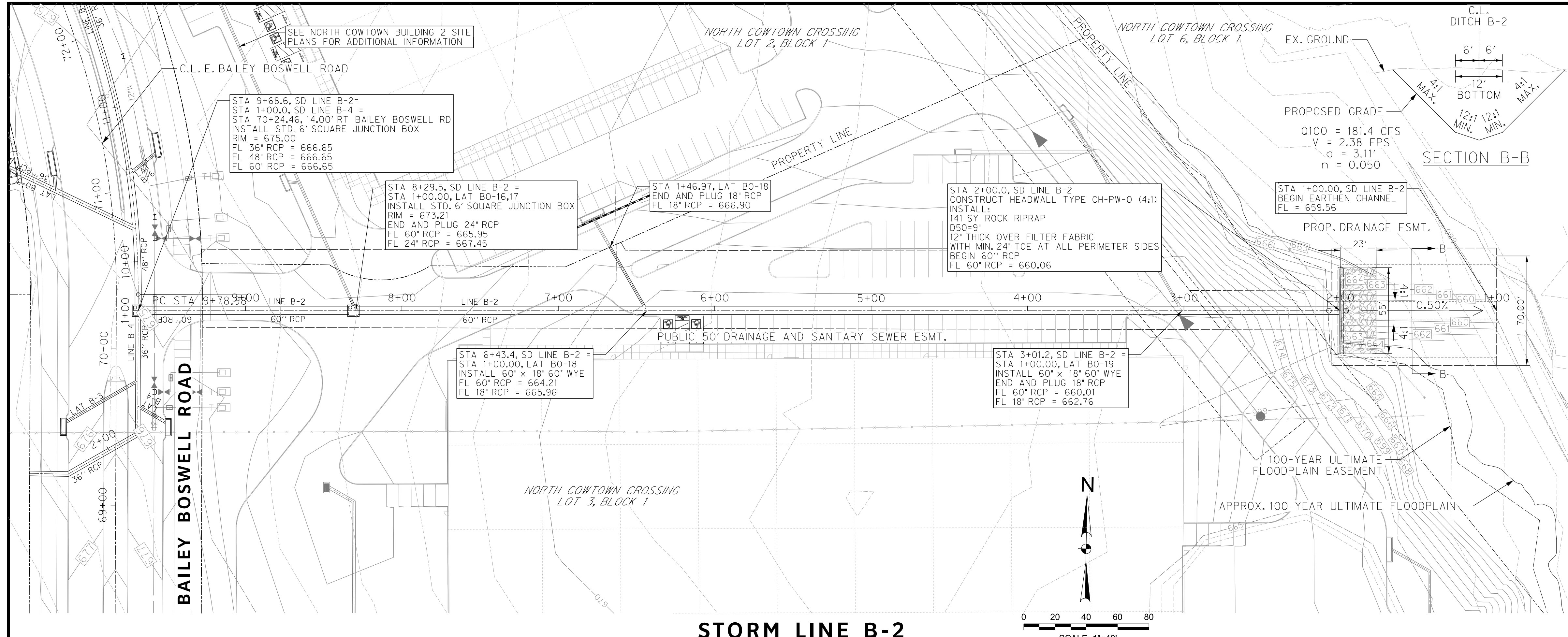
DOE # K-2840
 CITY PROJECT # 103320 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX MAPSCO NO. 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
 EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
STORM DRAIN PLAN
 LINE B-1 - STA 10+00 TO END

PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 100 OF 189
DRAWN: PTS			

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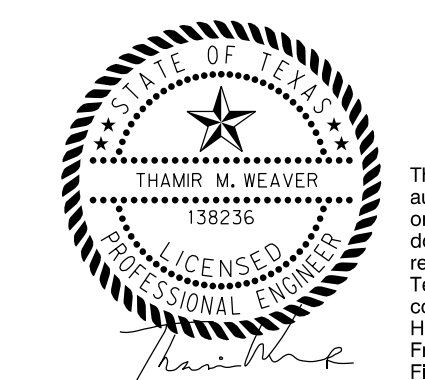
REVISIONS		
NO.	DESCRIPTION	DATE
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STORM DRAIN LEGEND

- PROPOSED CURB INLET
- PROPOSED DROP INLET W/ APRON
- PROPOSED STORM DRAIN
- PROPOSED MANHOLE
- PROPOSED RIPRAP

- NOTES:**
- FOR CURB INLETS 15' OR GREATER CONTRACTOR SHALL NOT CONSTRUCT SUPPORT WALL ABOVE LATERAL CONNECTION POINT.
 - ALL LATERAL AND TRUNK LINE WYE CONNECTIONS ARE 60" UNLESS OTHERWISE NOTED.
 - REINFORCED CONCRETE PIPES AND REINFORCED CONCRETE BOX CULVERTS TO BE PRECAST UNLESS OTHERWISE NOTED.
 - ALL RCP IS 21" UNLESS OTHERWISE NOTED.



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CONSTRUCTION NOTES

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 AT&T 1-800-878-8711
 FORT WORTH WATER DEPT.-FIELD OPERATIONS WATER (817) 925-2360
 FORT WORTH WATER DEPT.-FIELD OPERATIONS SANITARY SEWER (817) 223-7438
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 ALL OTHER FACILITIES 1-800-DIG-TESS

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ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

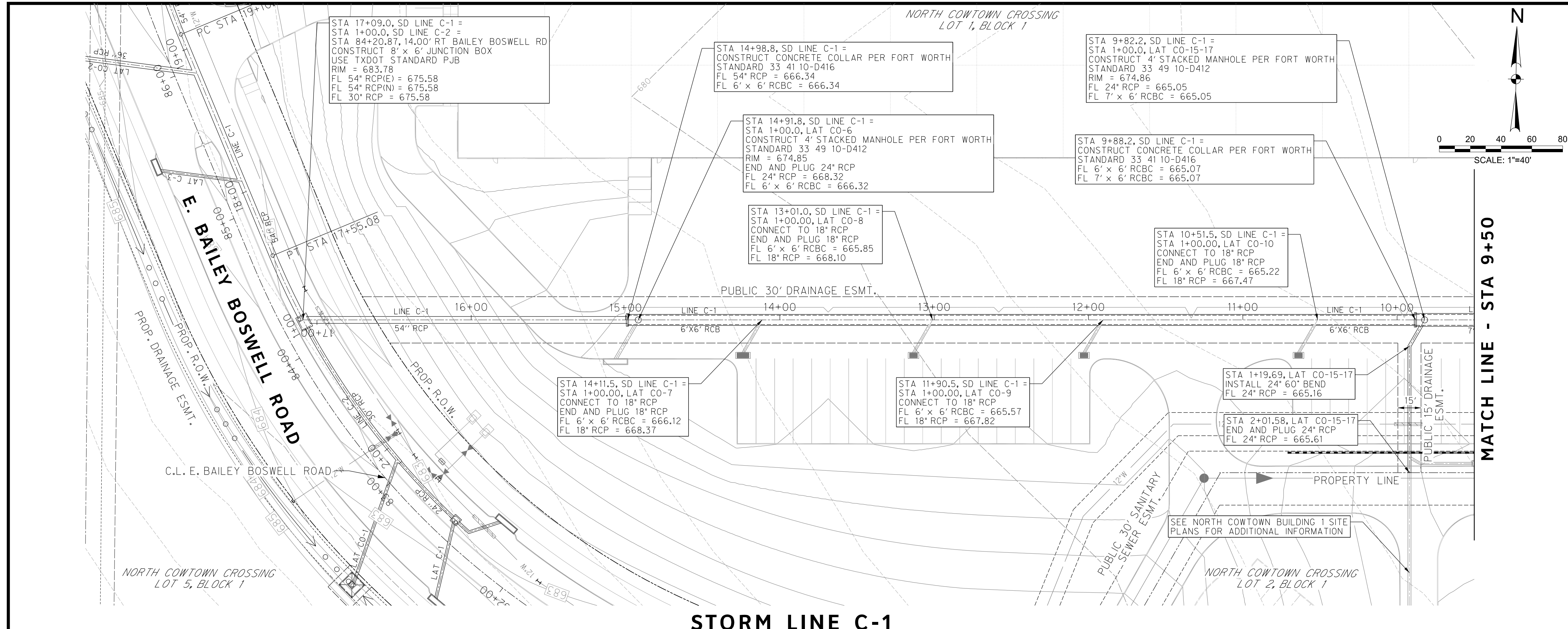
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
STORM DRAIN PLAN
LINE B-2

PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 101 OF 189
DRAWN: PTS			



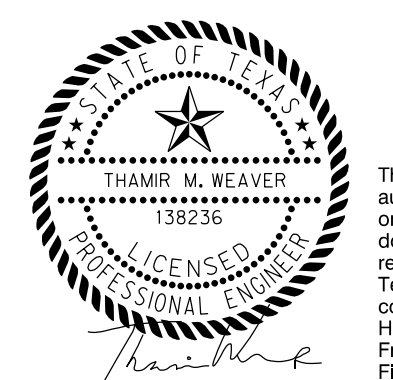
REVISIONS		
NO.	DESCRIPTION	DATE
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STORM DRAIN LEGEND

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- PROPOSED DROP INLET W/ APRON
- PROPOSED STORM DRAIN
- PROPOSED MANHOLE
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 - FORT WORTH WATER DEPT.-FIELD OPERATIONS LOCATE (817) 392-6296
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 - SBC TELEPHONE (817) 338-6819
 - CHARTER COMM. (817) 509-6272 EXT. 3363
 - ALL OTHER FACILITIES 1-800-DIG-TESS

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E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

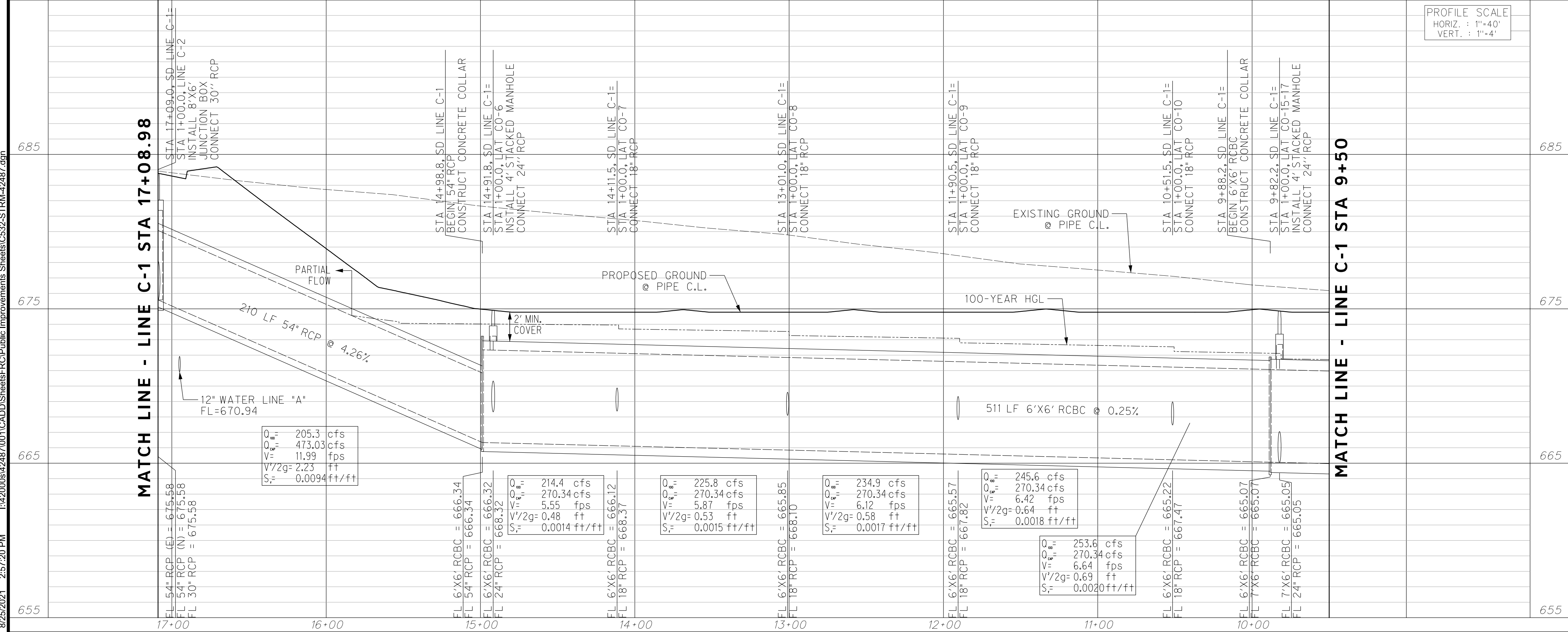
**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES**

**TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

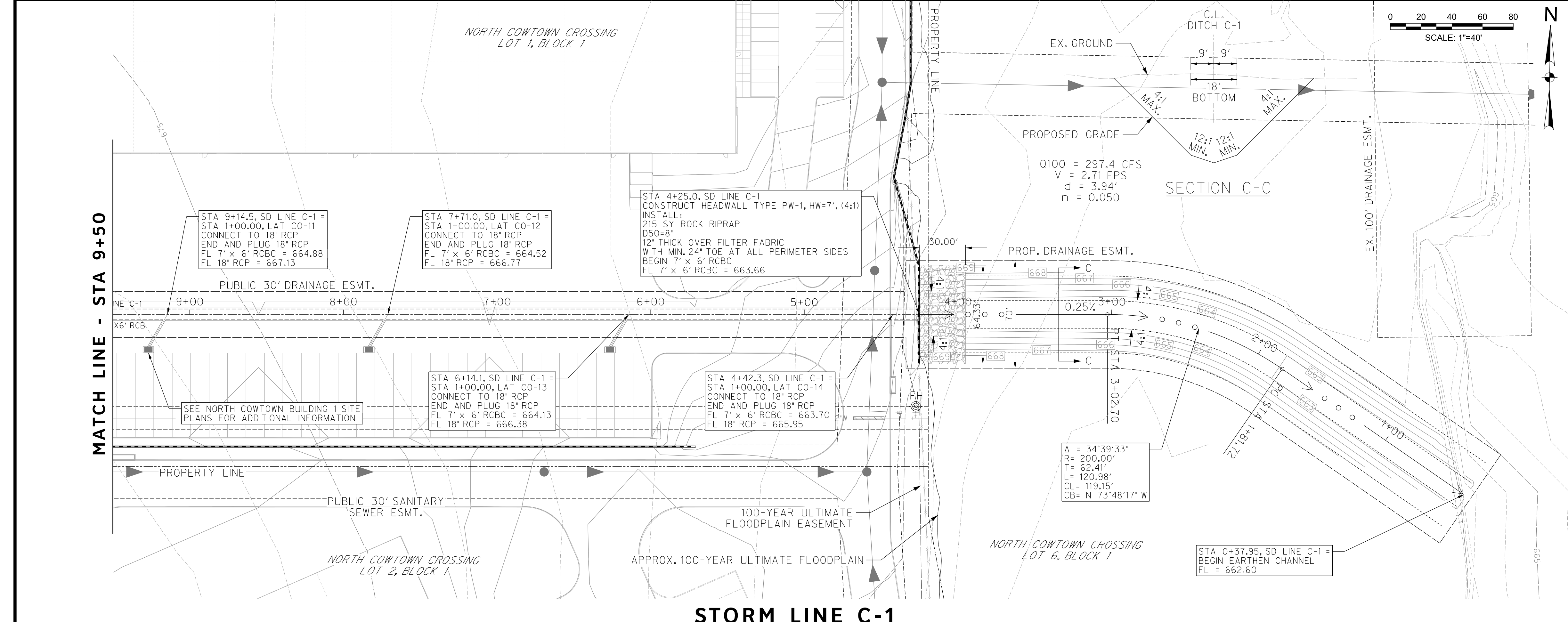
**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 STORM DRAIN PLAN
 LINE C-1 - BEGIN TO STA 9+50**

PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 102 OF 189
DRAWN: PTS			



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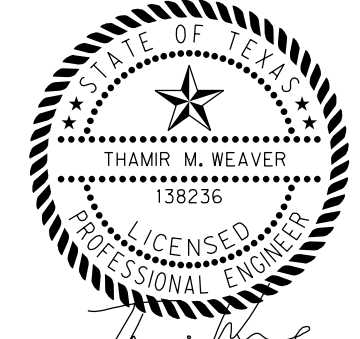
REVISIONS		
NO.	DESCRIPTION	DATE
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STORM DRAIN LEGEND

- PROPOSED CURB INLET
- PROPOSED DROP INLET W/ APRON
- PROPOSED STORM DRAIN
- PROPOSED MANHOLE
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CONSTRUCTION NOTES

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 FORT WORTH WATER DEPT.-FIELD OPERATIONS WATER (817) 925-2360
 FORT WORTH WATER DEPT.-FIELD OPERATIONS SANITARY SEWER (817) 223-7438
 FORT WORTH WATER DEPT.-FIELD OPERATIONS LOCATE (817) 392-6296
 FORT WORTH T&PW (817) 871-8100
 ATMOS ENERGY (817) 215-4366
 ONCOR GAS & ELECTRIC (817) 215-6214
 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX MAPSCO NO. 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

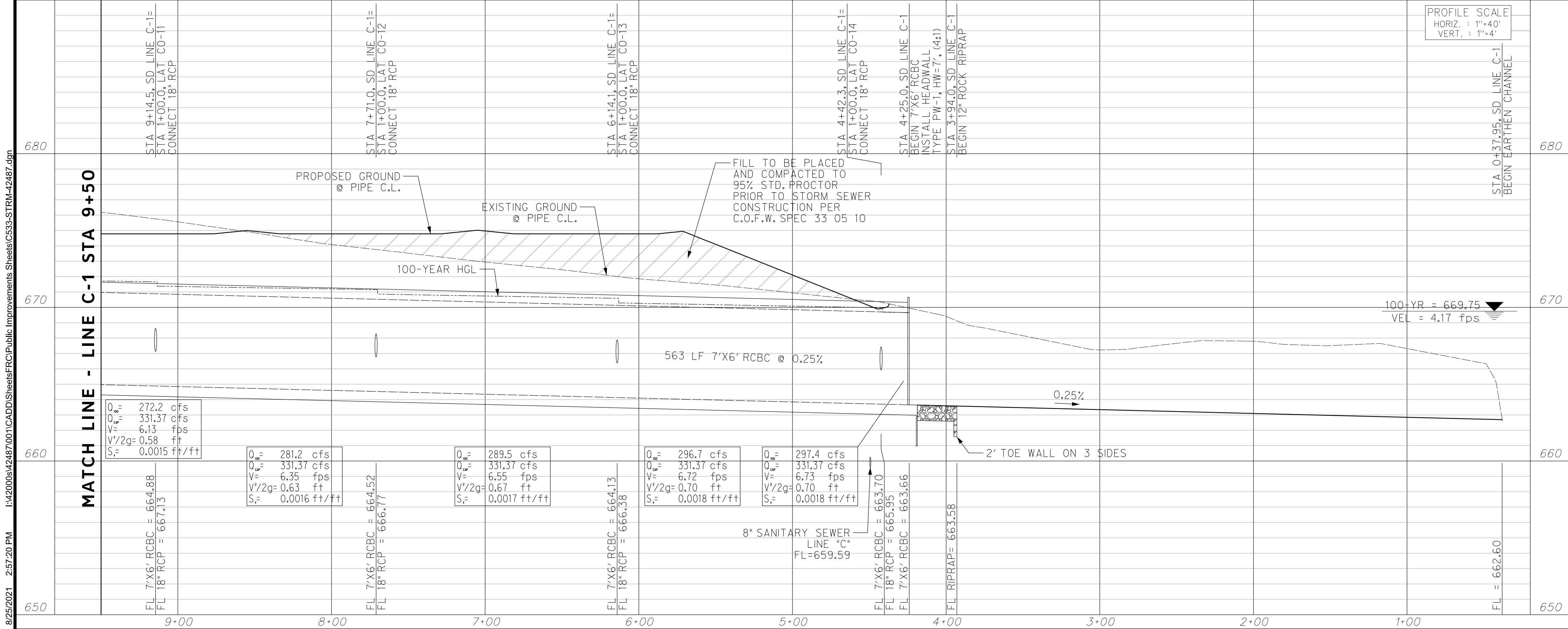
**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES**

**TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 STORM DRAIN PLAN
 LINE C-1 - STA 9+50 TO END**

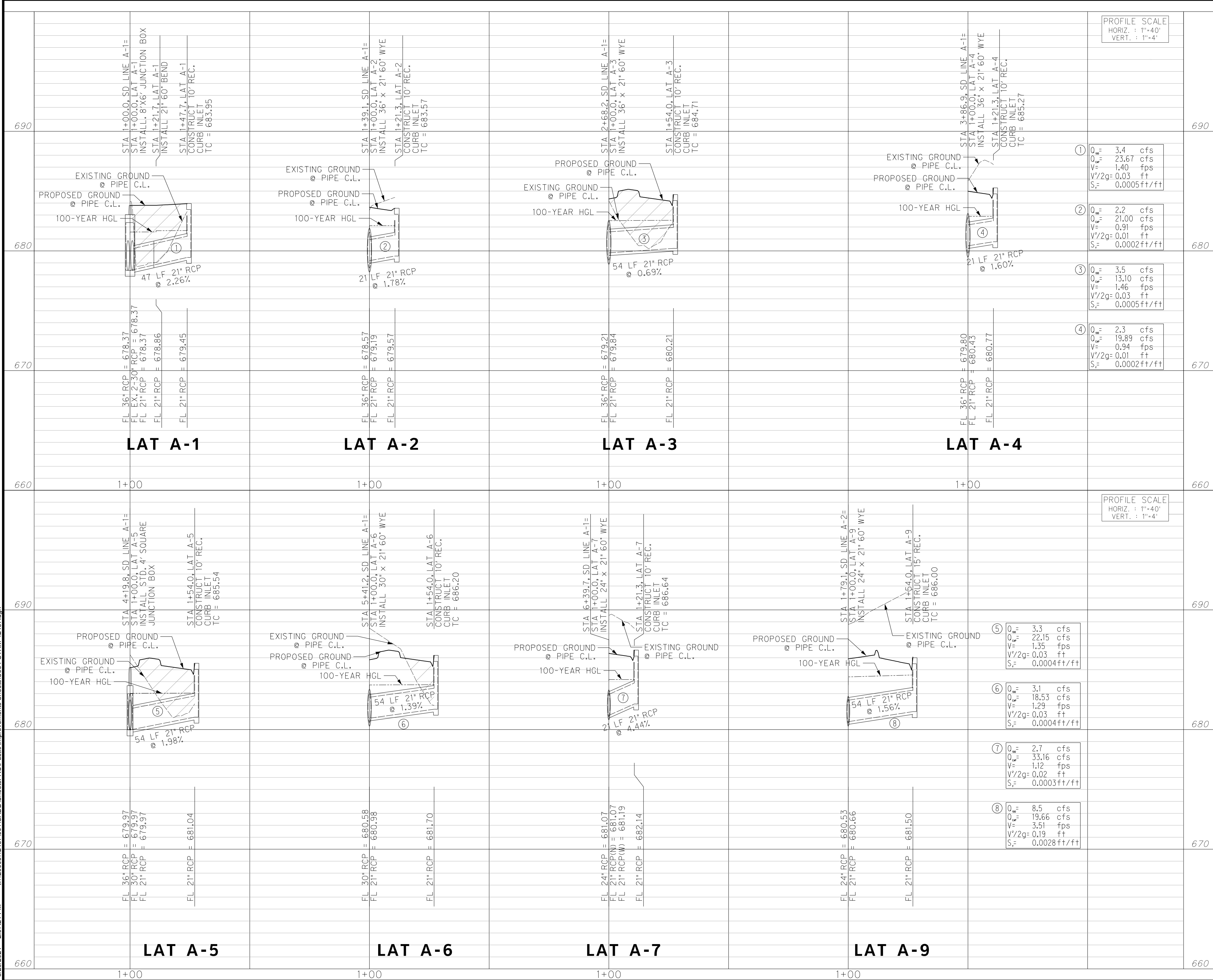
PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 103 OF 189
DRAWN: PTS			



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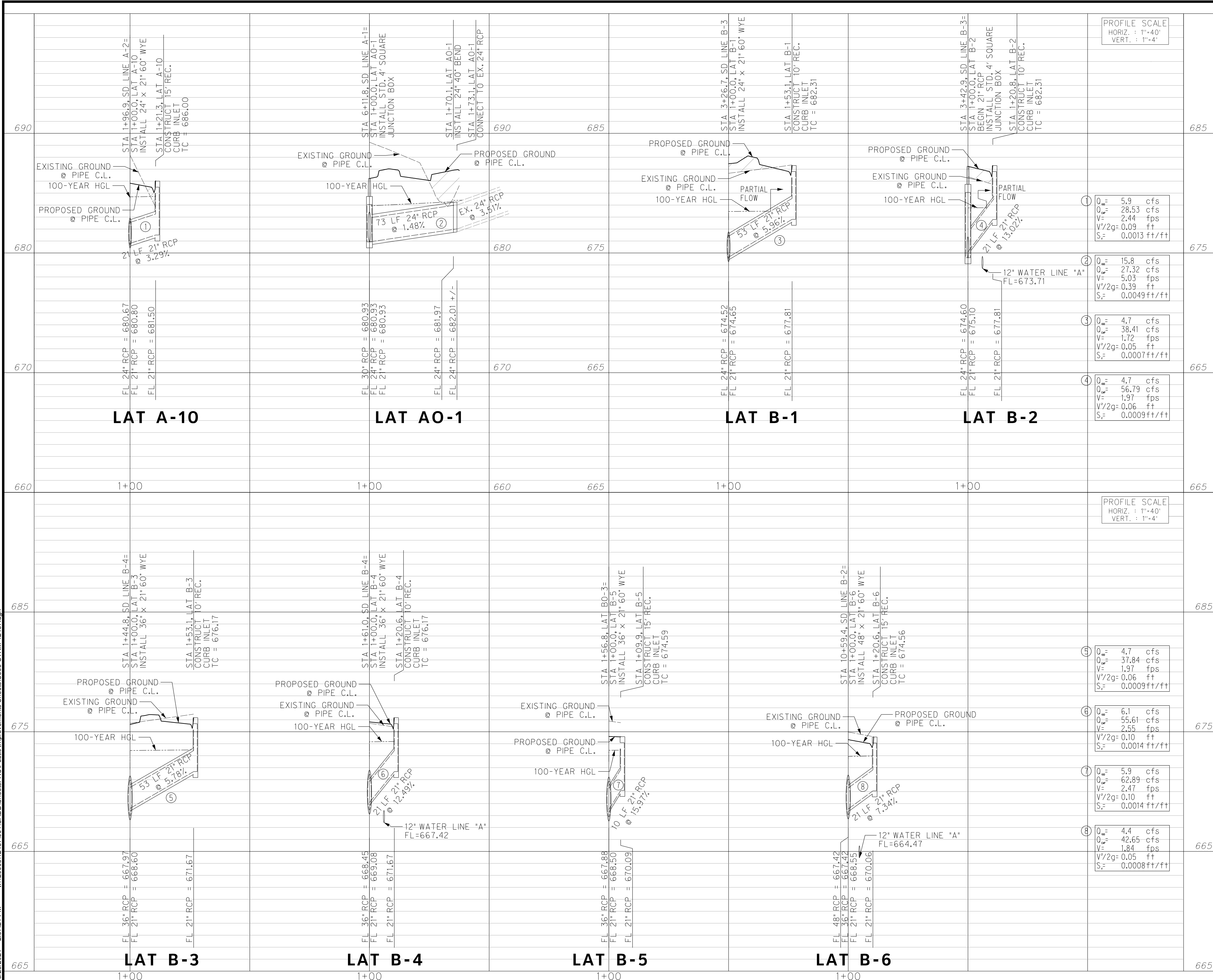
REVISIONS		
No.	DESCRIPTION	DATE
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TBPE FIRM #F-312
 3803 PARKWOOD BLVD., STE 800
 FRISCO, TEXAS 75034-8640
 (214) 217-6664

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HORIZONTAL & VERTICAL CONTROL		
CONTROL POINT #105 SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	CONTROL POINT #109 SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	CONTROL POINT #314 SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97
DOE # _____ K-2840 CITY PROJECT # 103320 FORT WORTH WATER DEPT. MAPSCO NO. 119E AND 119F TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX MAP NO. XXXX-XXX		
CITY OF FORT WORTH, TEXAS TRANSPORTATION AND DEVELOPMENT SERVICES		
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER		
EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD STORM DRAIN LATERALS		
DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021
DRAWN: PTS		SHEET 104 OF 189

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

① Q_w = 5.9 cfs
Q_w = 28.53 cfs
V = 2.44 fps
V²/2g = 0.09 ft
S_c = 0.0013 ft/ft

② Q_w = 15.8 cfs
Q_w = 27.32 cfs
V = 5.03 fps
V²/2g = 0.39 ft
S_c = 0.0049 ft/ft

③ Q_w = 4.7 cfs
Q_w = 38.41 cfs
V = 1.72 fps
V²/2g = 0.05 ft
S_c = 0.0007 ft/ft

④ Q_w = 4.7 cfs
Q_w = 56.79 cfs
V = 1.97 fps
V²/2g = 0.06 ft
S_c = 0.0009 ft/ft

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

⑤ Q_w = 4.7 cfs
Q_w = 37.84 cfs
V = 1.97 fps
V²/2g = 0.06 ft
S_c = 0.0009 ft/ft

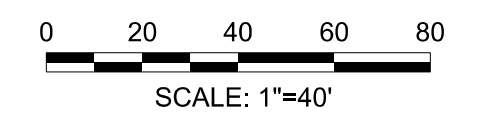
⑥ Q_w = 6.1 cfs
Q_w = 55.61 cfs
V = 2.55 fps
V²/2g = 0.10 ft
S_c = 0.0014 ft/ft

⑦ Q_w = 5.9 cfs
Q_w = 62.89 cfs
V = 2.47 fps
V²/2g = 0.10 ft
S_c = 0.0014 ft/ft

⑧ Q_w = 4.4 cfs
Q_w = 42.65 cfs
V = 1.84 fps
V²/2g = 0.05 ft
S_c = 0.0008 ft/ft

REVISIONS

No.	DESCRIPTION	DATE
1		
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E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
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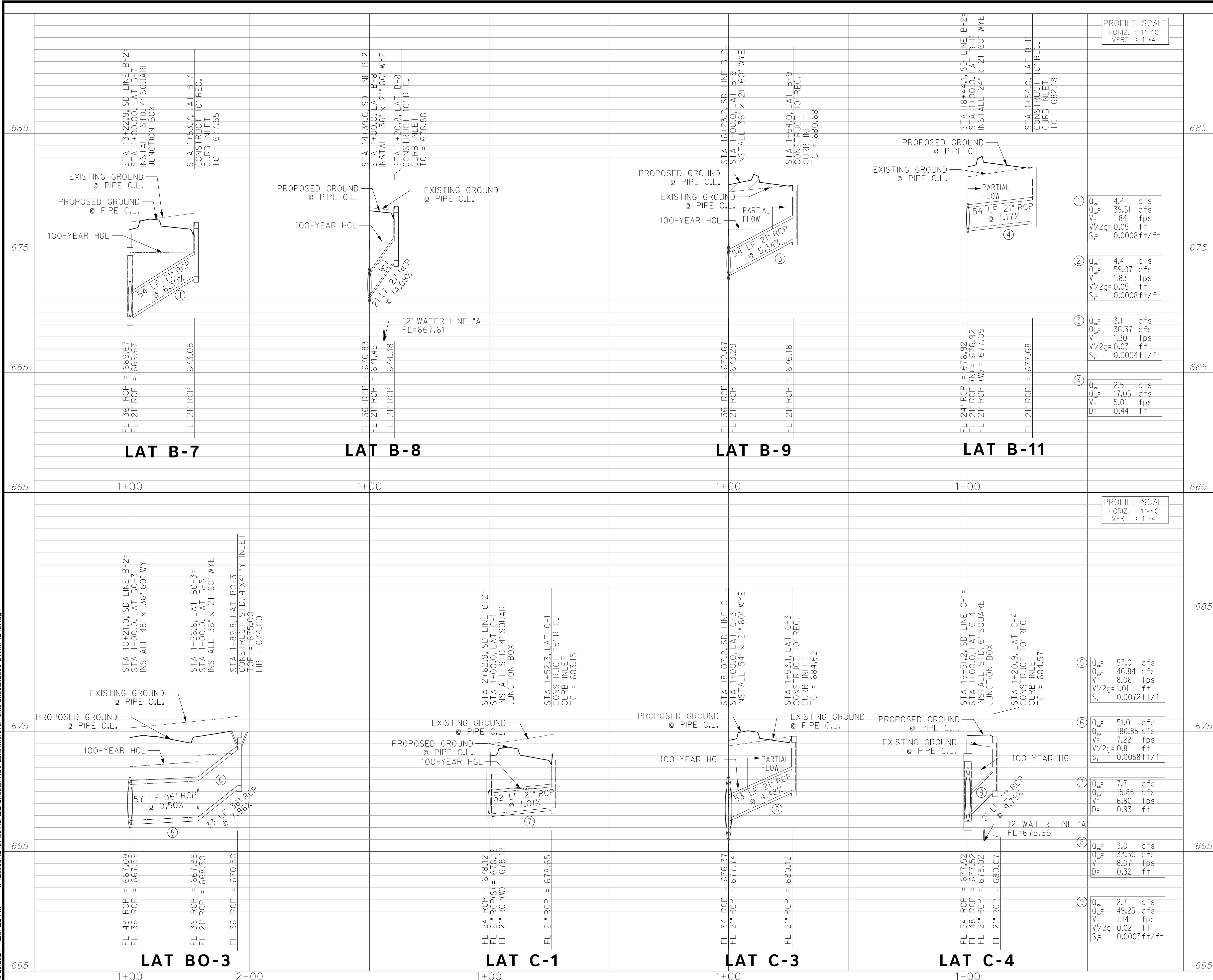
CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
STORM DRAIN LATERALS

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 105 OF 189
DRAWN: PTS			

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REVISIONS		
No.	DESCRIPTION	DATE
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3803 PARKWOOD BLVD., STE 800
FRISCO, TEXAS 75034-8840
(214) 217-8884

SCALE: 1"=40'

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 ATMOS ENERGY (817) 215-4366
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 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
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ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES**

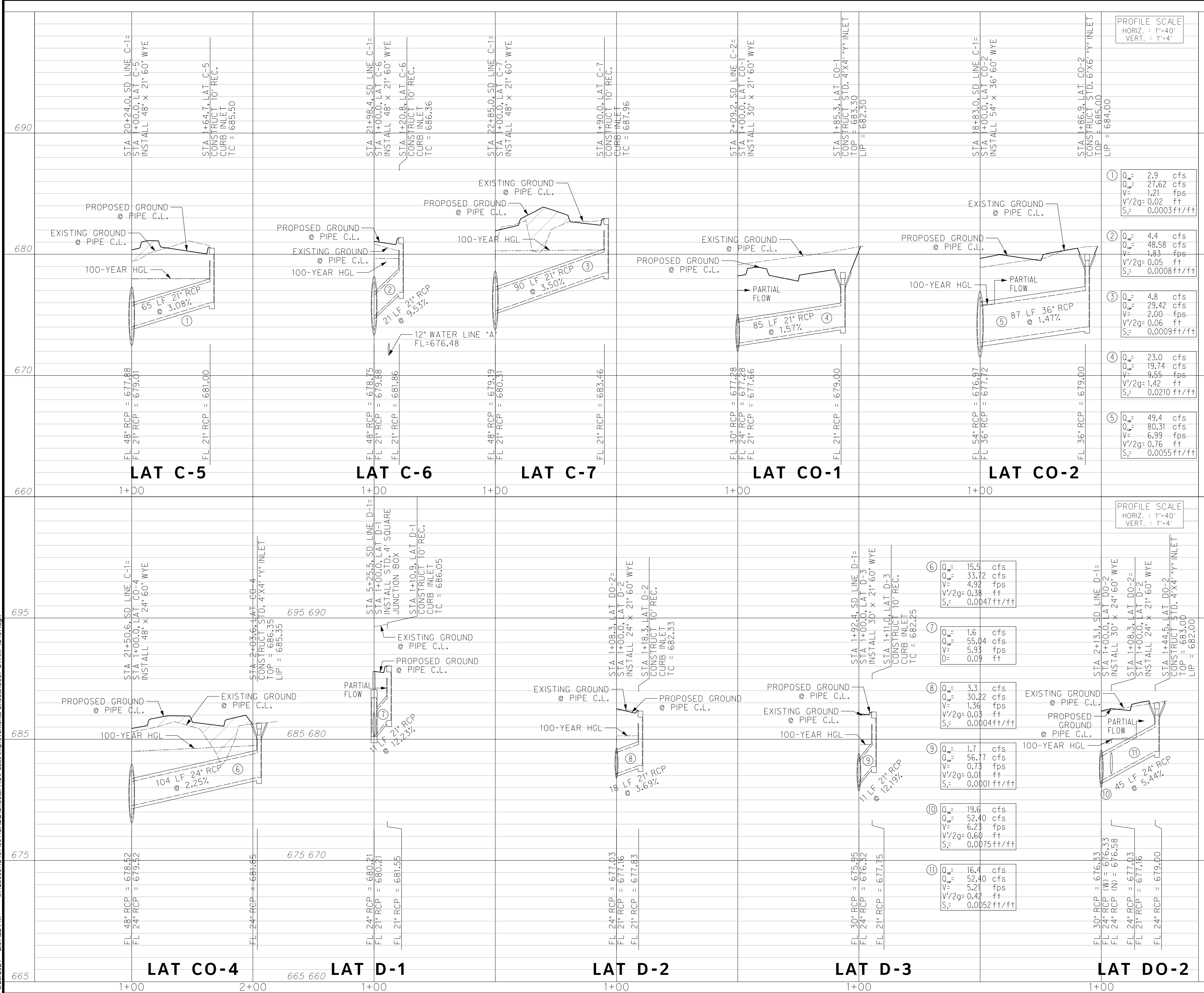
**TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 STORM DRAIN LATERALS**

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 106 OF 189
DRAWN: PTS			

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REVISIONS		
No.	DESCRIPTION	DATE
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TBPE FIRM #F-312
 3803 PARKWOOD BLVD., STE 800
 FRISCO, TEXAS 75034-8840
 (214) 217-6954

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 FORT WORTH WATER DEPT.-FIELD OPERATIONS WATER (817) 925-2360
 FORT WORTH WATER DEPT.-FIELD OPERATIONS SANITARY SEWER (817) 223-7438
 FORT WORTH WATER DEPT.-FIELD OPERATIONS LOCATE (817) 392-6296
 FORT WORTH T&PW (817) 871-8100
 ATMOS ENERGY (817) 215-4366
 ONCOR GAS & ELECTRIC (817) 215-6214
 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105 SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	CONTROL POINT #109 SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	CONTROL POINT #314 SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97
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DOE # _____ K-2840
 CITY PROJECT # 103320 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX MAPSCO NO. 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS

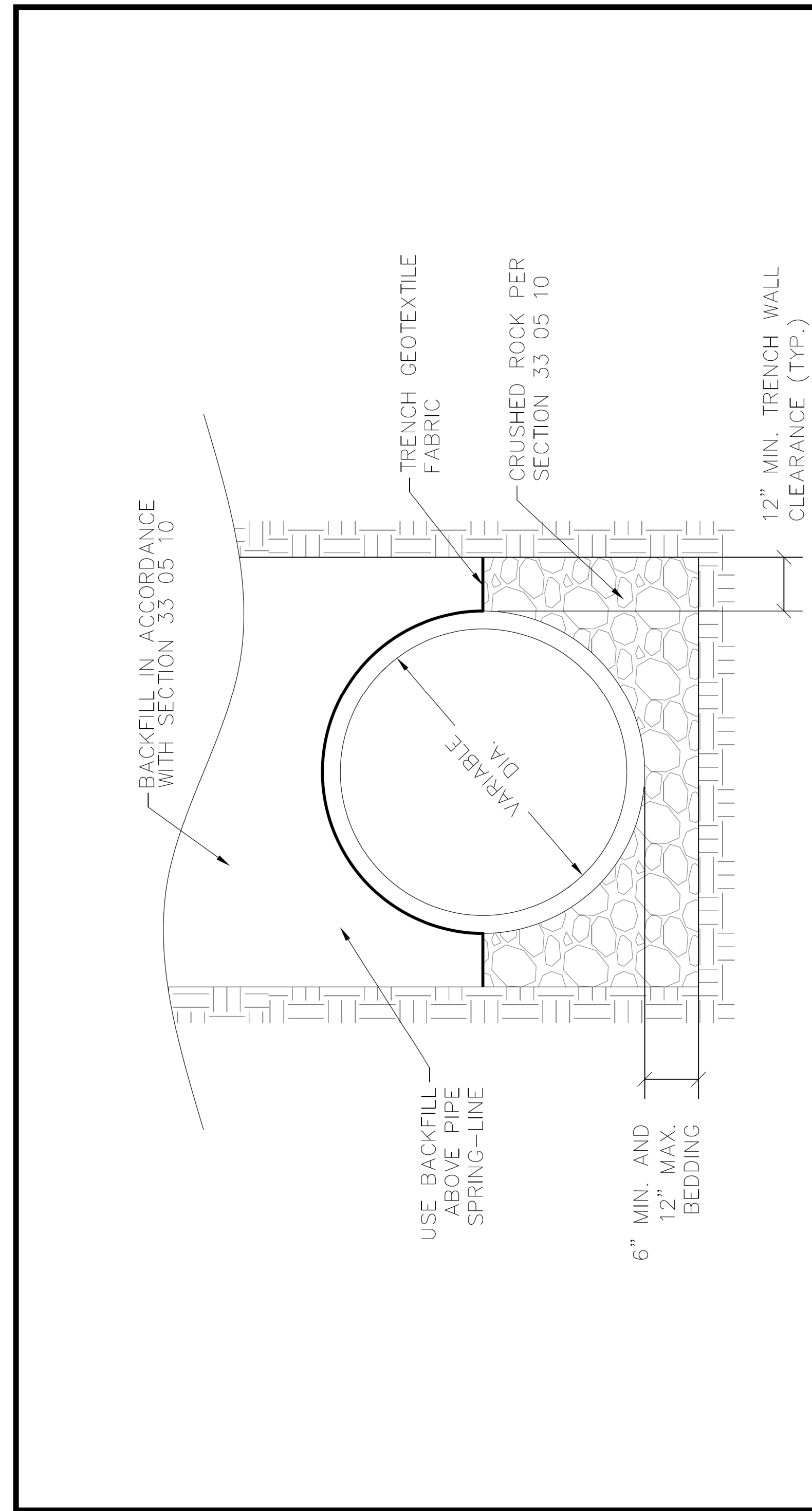
TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD

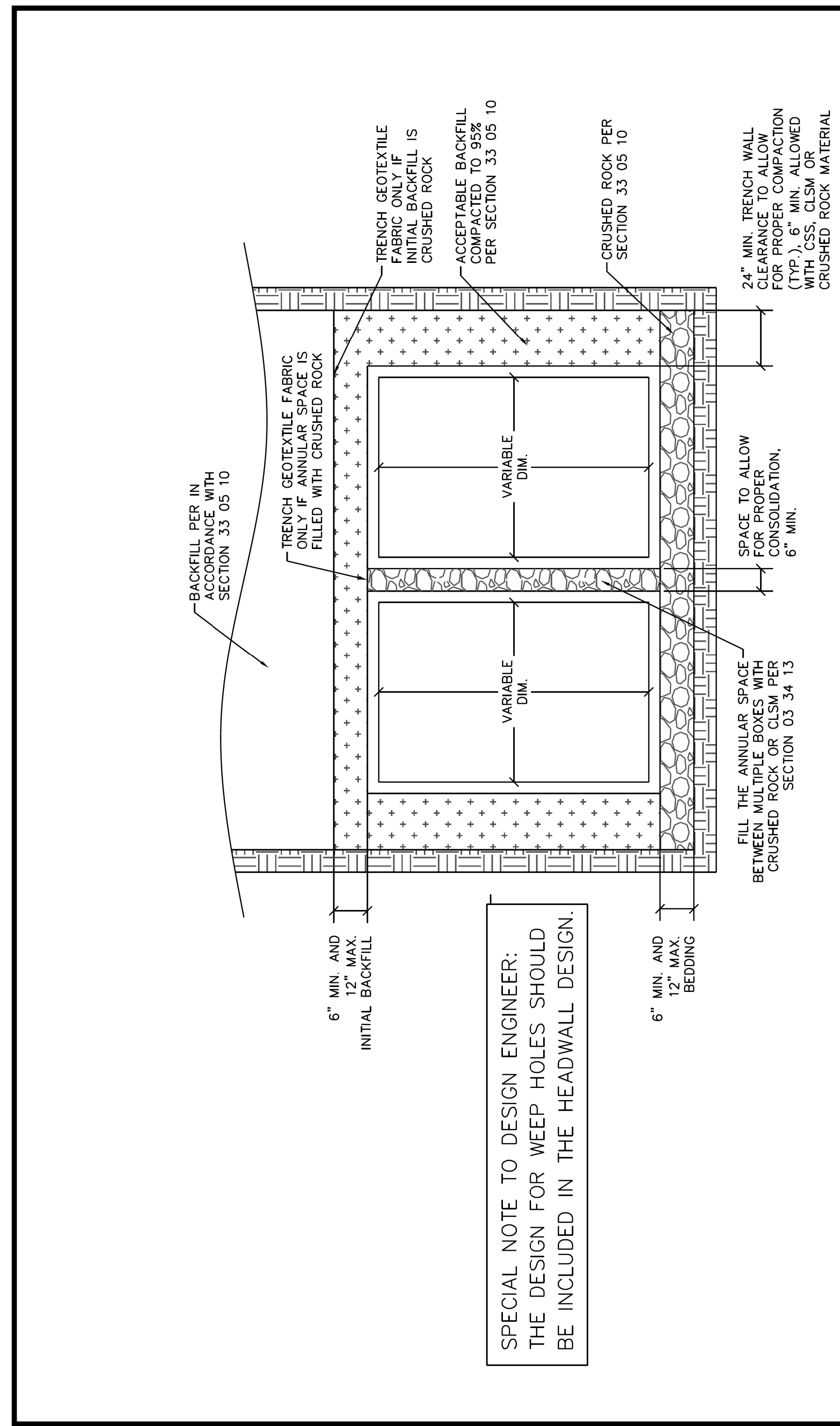
STORM DRAIN LATERALS

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 107 OF 189
8/25/2021 2:57:22 PM C537-STRM-42487.dgn			



CITY OF FORT WORTH, TEXAS
**EMBEDMENT FOR RCP STORM SEWER
 ALL SIZES**

REVISED 04-30-2021
33 05 10-D402



SPECIAL NOTE TO DESIGN ENGINEER:
 THE DESIGN FOR WEEP HOLES SHOULD
 BE INCLUDED IN THE HEADWALL DESIGN.



CITY OF FORT WORTH, TEXAS
**EMBEDMENT FOR STORM SEWER
 REINFORCED CONCRETE BOX ALL SIZES**

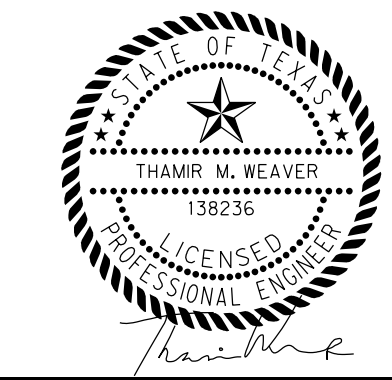
REVISED 04-30-2021
33 05 10-D403

REVISIONS

NO.	DESCRIPTION	DATE
1		
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3803 PARKWOOD BLVD., STE 800
 FRISCO, TEXAS 75034-8840
 (214) 217-6664



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 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

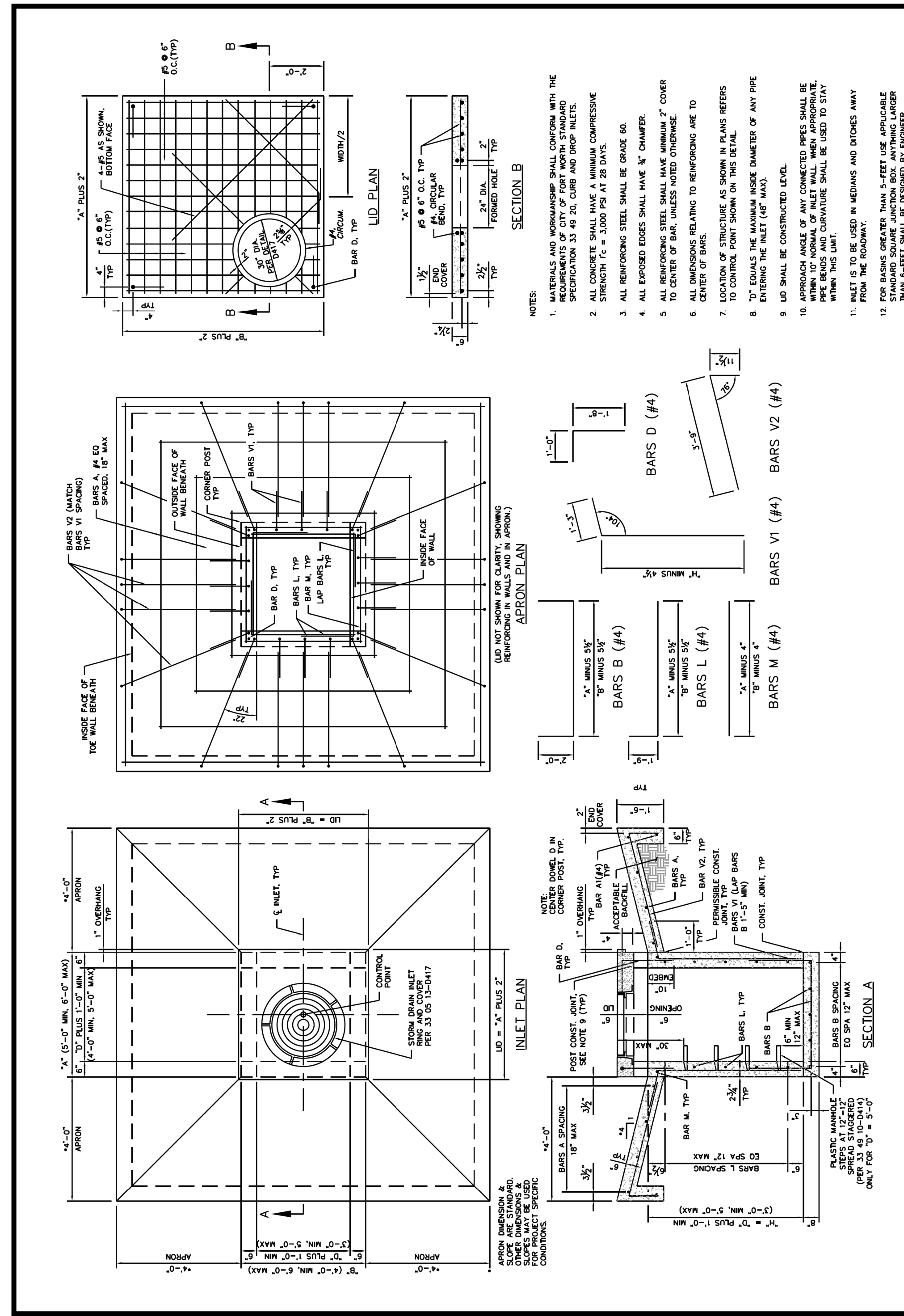
CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

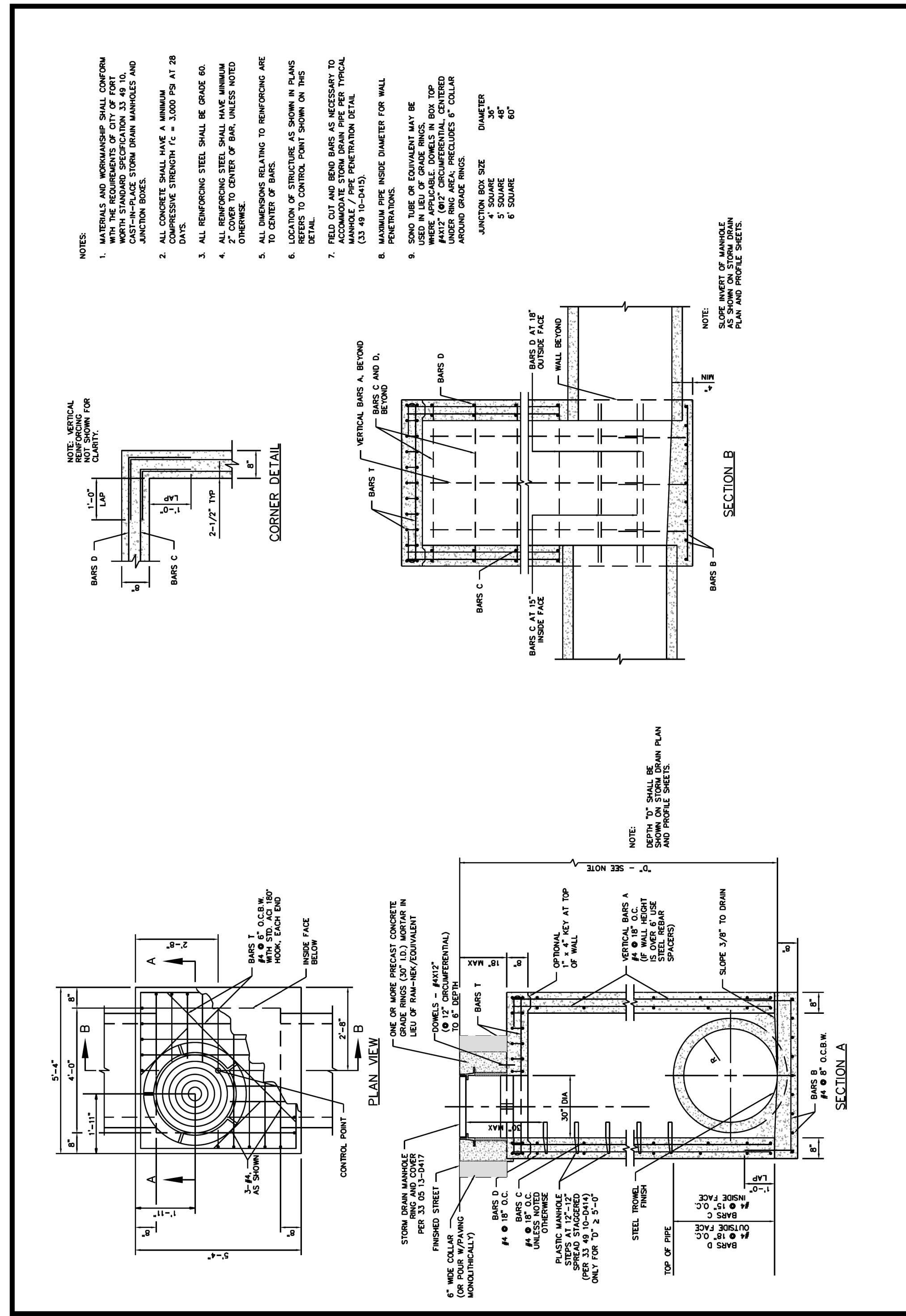
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
STORM DRAIN DETAILS
 (SHEET 1 OF 11)

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 108 OF 189
DRAWN: PTS			



CITY OF FORT WORTH, TEXAS
STANDARD DROP INLET WITH LID

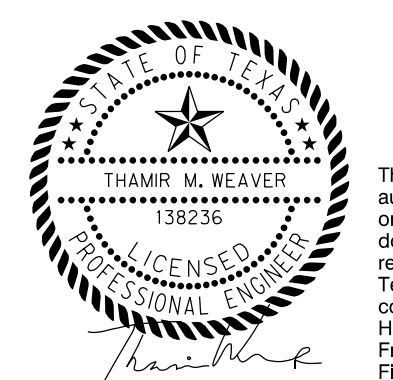
REVISED 04-30-2021
 33 49 20-D408



CITY OF FORT WORTH, TEXAS
STANDARD 4' SQUARE JUNCTION BOX

REVISED 04-30-2021
 33 49 10-D409

REVISIONS		
NO.	DESCRIPTION	DATE
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2		
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CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

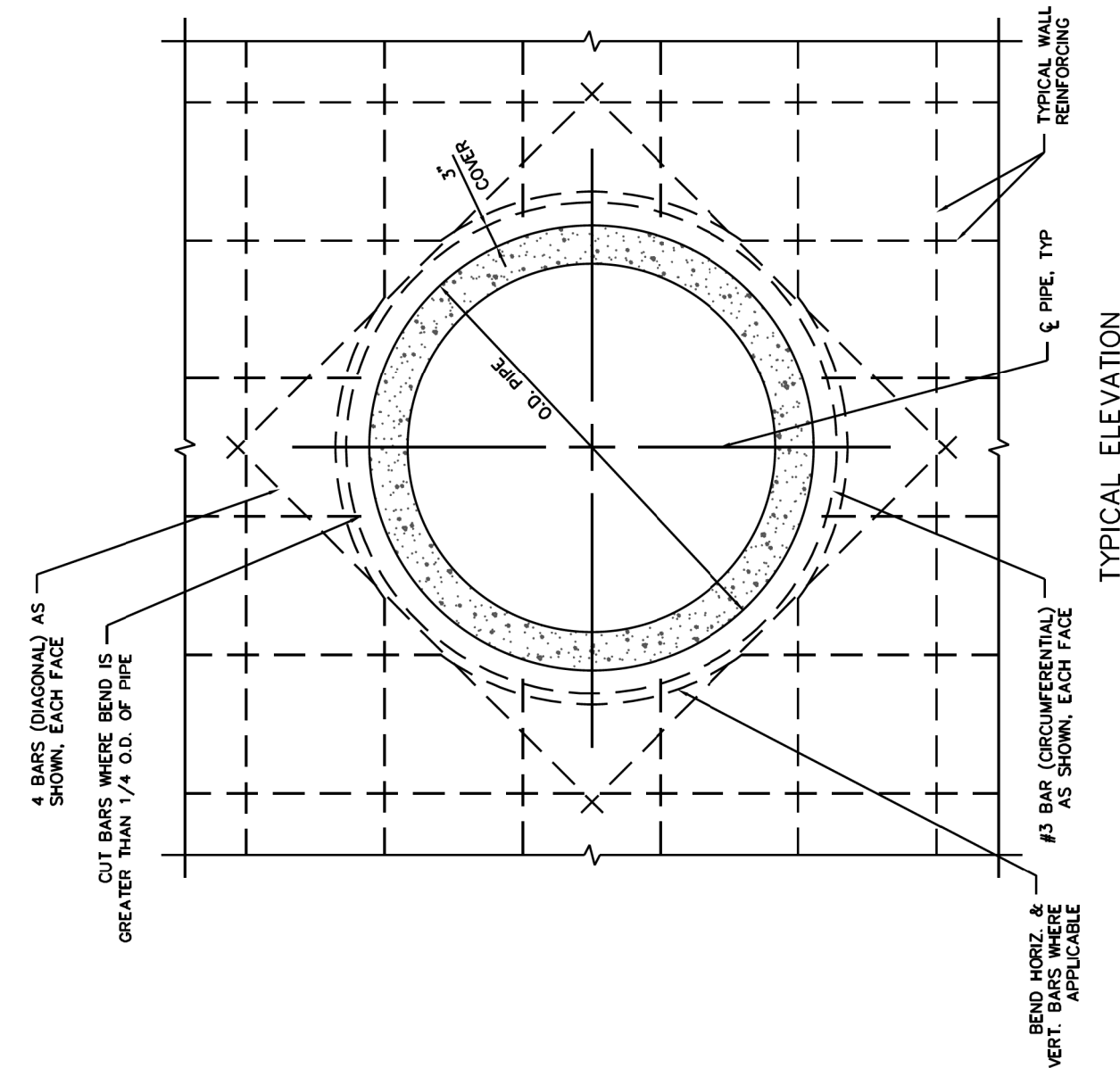
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
STORM DRAIN DETAILS
 (SHEET 3 OF 11)

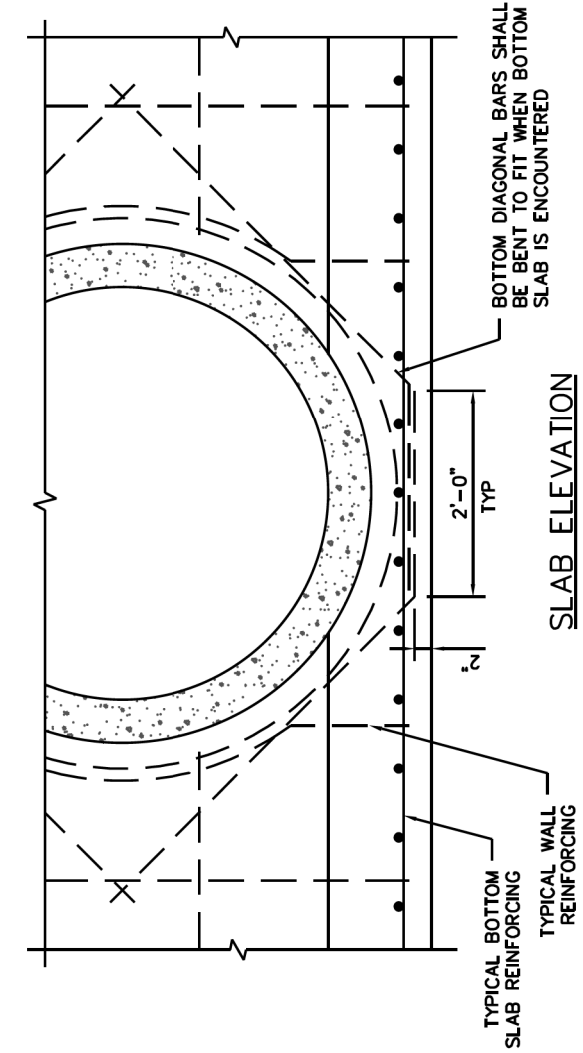
DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 110 OF 189
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NOTES:

1. MATERIAL AND WORKMANSHIP SHALL CONFORM WITH THE REQUIREMENTS OF THE CITY OF FORT WORTH STANDARD SPECIFICATION 33 49 10, CAST-IN-PLACE STORM DRAIN MANHOLES AND JUNCTION BOXES.
2. ALL REINFORCING STEEL SHALL BE GRADE 60.
3. DIAGONAL BAR SIZE SHALL MATCH THE LARGER SIZE OF HORIZONTAL OR VERTICAL WALL REINFORCING.



TYPICAL ELEVATION

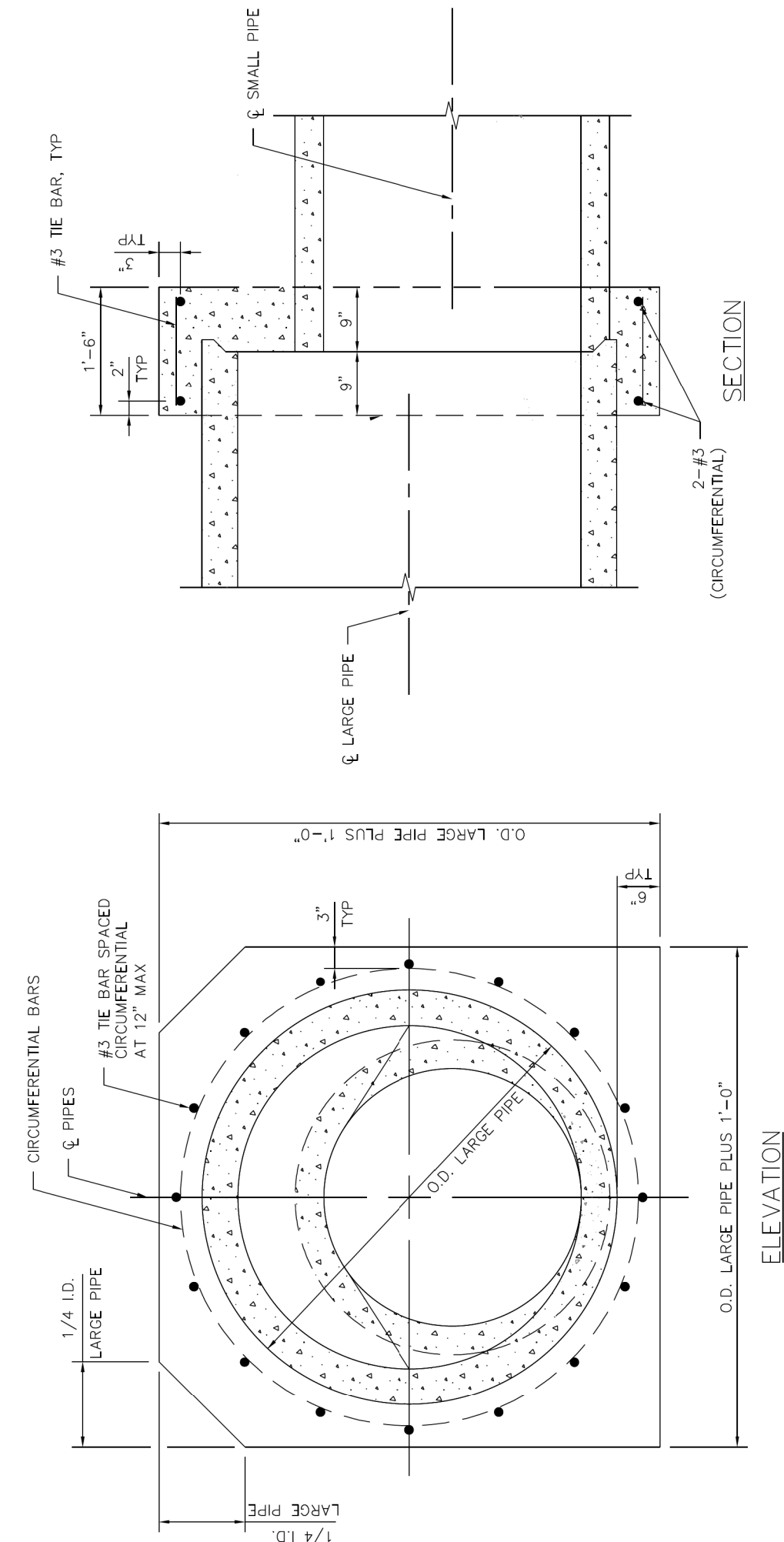


SLAB ELEVATION



CITY OF FORT WORTH, TEXAS
TYPICAL MANHOLE/
PIPE PENETRATION

REVISED 04-30-2021
33 49 10-D415



NOTES:

1. MATERIAL AND WORKMANSHIP SHALL CONFORM WITH THE REQUIREMENTS OF THE CITY OF FORT WORTH STANDARD SPECIFICATION 33 41 10, REINFORCED CONCRETE STORM DRAIN PIPE CULVERTS.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH $f'_c = 3,000$ PSI AT 28 DAYS.
3. ALL REINFORCING STEEL SHALL BE GRADE 60.
4. PIPE INVERT ELEVATIONS SHALL BE SHOWN IN STORM DRAIN PLAN AND PROFILE. THE LARGEST OF PIPE DIAMETERS WILL CONTROL CONCRETE COLLAR DIMENSIONS AS SHOWN IN THIS DETAIL.



CITY OF FORT WORTH, TEXAS
CONCRETE PIPE COLLAR

REVISED 04-30-2021
33 41 10-D416

REVISIONS

No.	DESCRIPTION	DATE
1		
2		
3		



3803 PARKWOOD BLVD., STE 800
FRISCO, TEXAS 75034-8840
(214) 217-6664



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ATMOS ENERGY (817) 215-4366
ONCOR GAS & ELECTRIC (817) 215-6214
TXU ENERGY 1-800-233-2133
SBC TELEPHONE (817) 338-6819
CHARTER COMM. (817) 509-6272 EXT. 3363
ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
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E: 2327333.06	E: 2327011.03	E: 2327060.00
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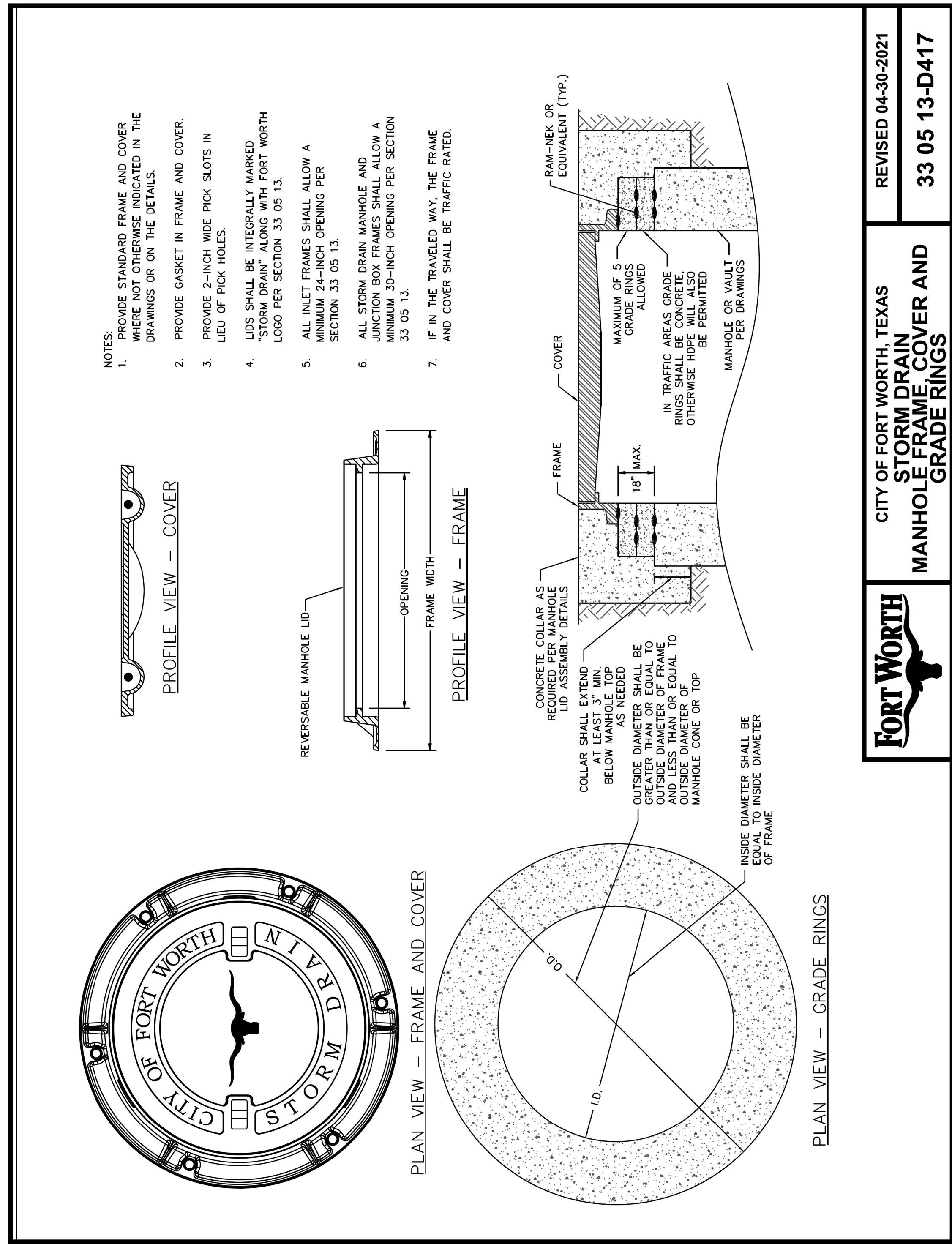
DOE # K-2840
CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT
SERVICES

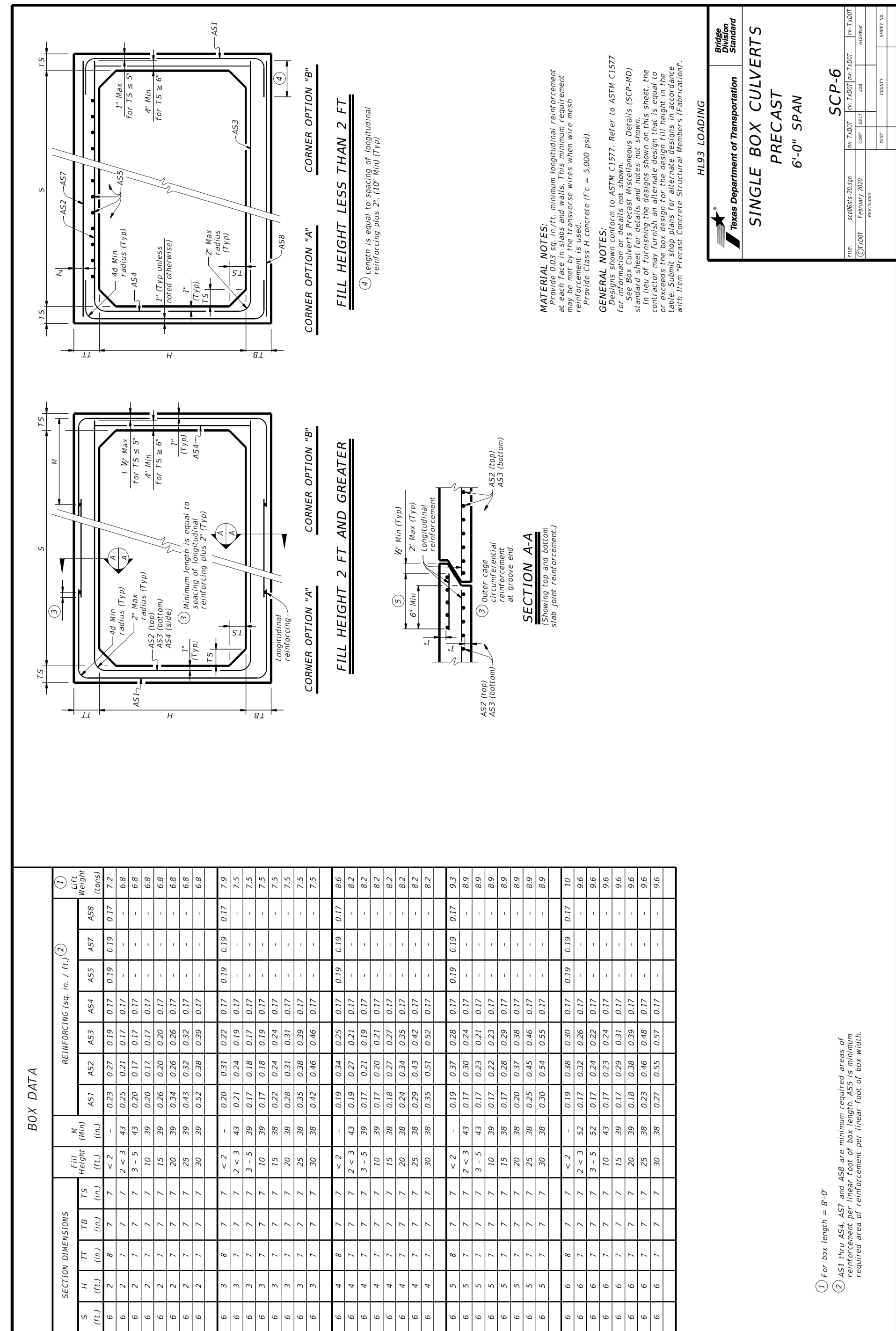
TRANSPORTATION PROGRAMMING &
INFRASTRUCTURE PLAN REVIEW CENTER

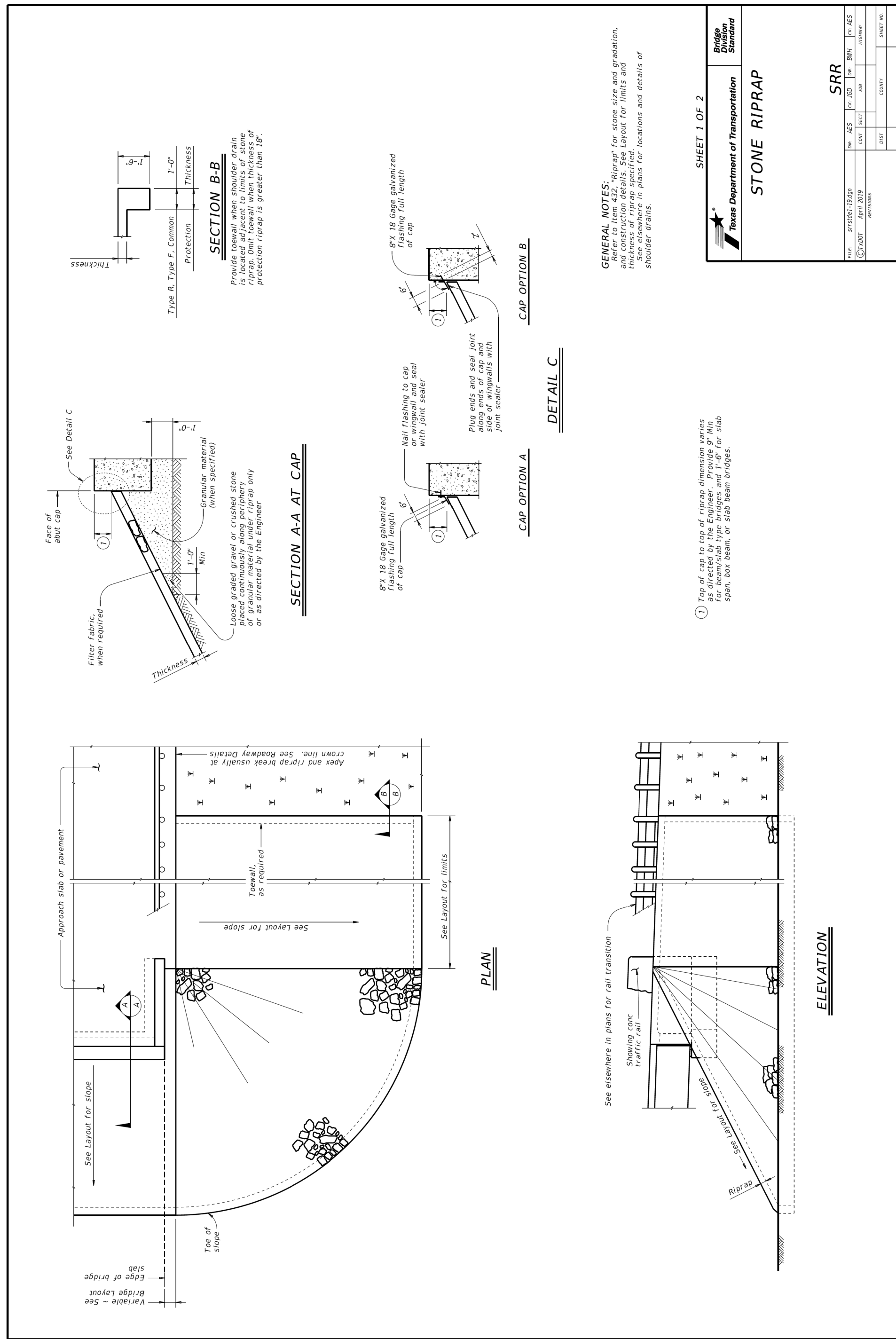
EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
STORM DRAIN DETAILS
(SHEET 6 OF 11)

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 113 OF 189
DRAWN: PTS			



CITY OF FORT WORTH TEXAS
STORM DRAIN COVER AND MANHOLE FRAME, COVER AND GRADE RINGS
 REVISED 04-30-2021
 33 05 13-D417





SHEET 1 OF 2

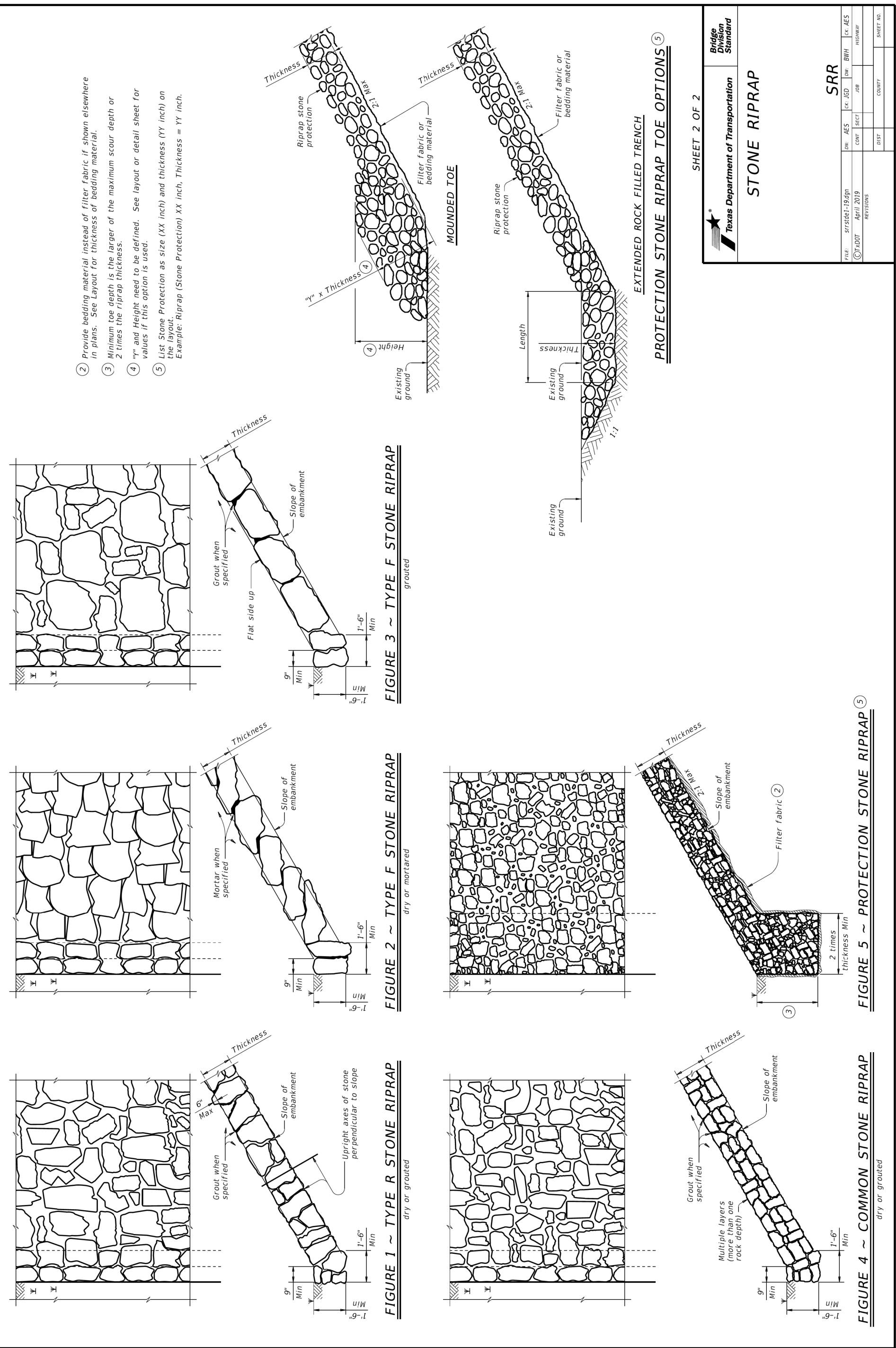
STONE RIPRAP

SRR

DATE	8/25/2021	BY	PTS
DATE	8/25/2021	BY	PTS
DATE	8/25/2021	BY	PTS
DATE	8/25/2021	BY	PTS

GENERAL NOTES:

1. Top of cap to top of riprap dimension varies for stone/riprap type bridges and 1'-0" for slab spans, box beam, or slab beam bridges.
2. Provide bedding material instead of filter fabric, if shown elsewhere in plans. See layout for thickness of bedding material.
3. Riprap shall be placed in a minimum of 2 layers. The riprap thickness per of the maximum scour depth or 2 times the riprap thickness.
4. "X" and height need to be defined. See layout or detail sheet for values if this option is used.
5. List Stone Protection as size (X) inch and thickness (Y) inch on Example Riprap (Stone Protection) XX inch, Thickness = YY inch.



SHEET 2 OF 2

STONE RIPRAP

SRR

DATE	8/25/2021	BY	PTS
DATE	8/25/2021	BY	PTS
DATE	8/25/2021	BY	PTS
DATE	8/25/2021	BY	PTS

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1		
2		
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DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
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 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

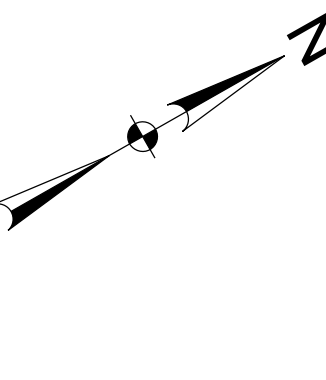
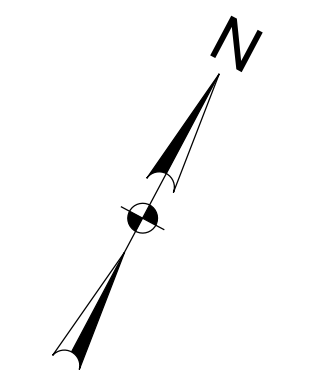
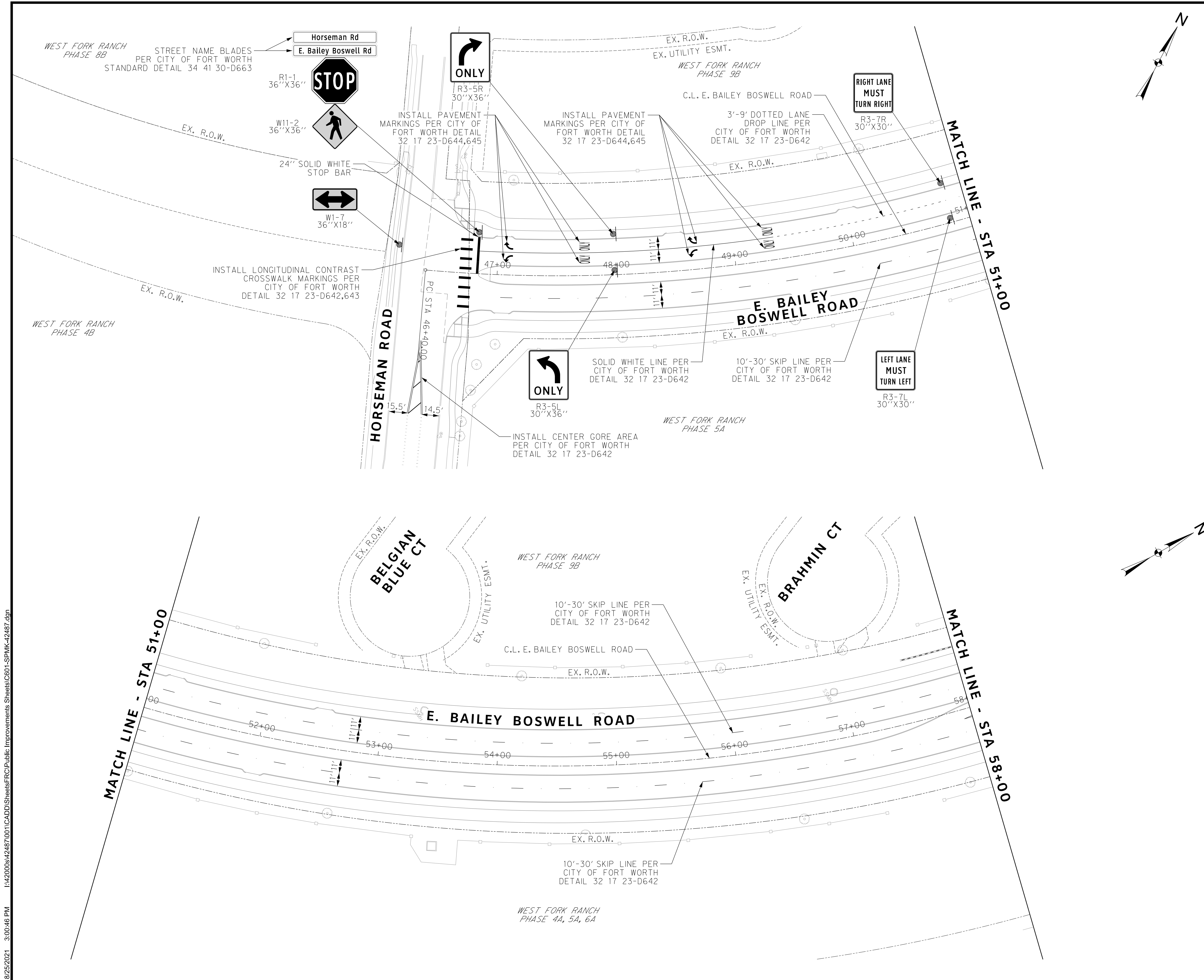
**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT
 SERVICES**

**TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 STORM DRAIN DETAILS
 (SHEET 10 OF 11)**

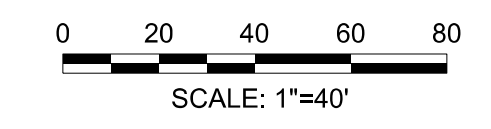
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DRAWN: PTS	N.T.S.	06/08/2021	117 OF 189

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REVISIONS

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SPMK LEGEND

- PROPOSED SIGN
- PROPOSED DELINEATOR

1. ALL DIMENSIONS ON THE PAVEMENT MARKING SHEETS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.



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 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES**
 TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 PAVEMENT MARKINGS & SIGNAGE
 BEGIN TO STA 58+00**

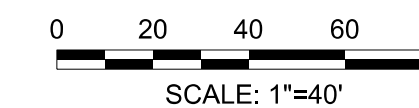
PLAN

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 119 OF 189
DRAWN: PTS			

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REVISIONS

No.	DESCRIPTION	DATE
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- PROPOSED DELINEATOR

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 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

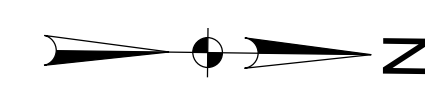
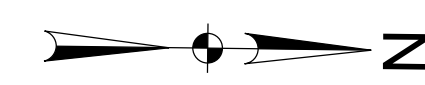
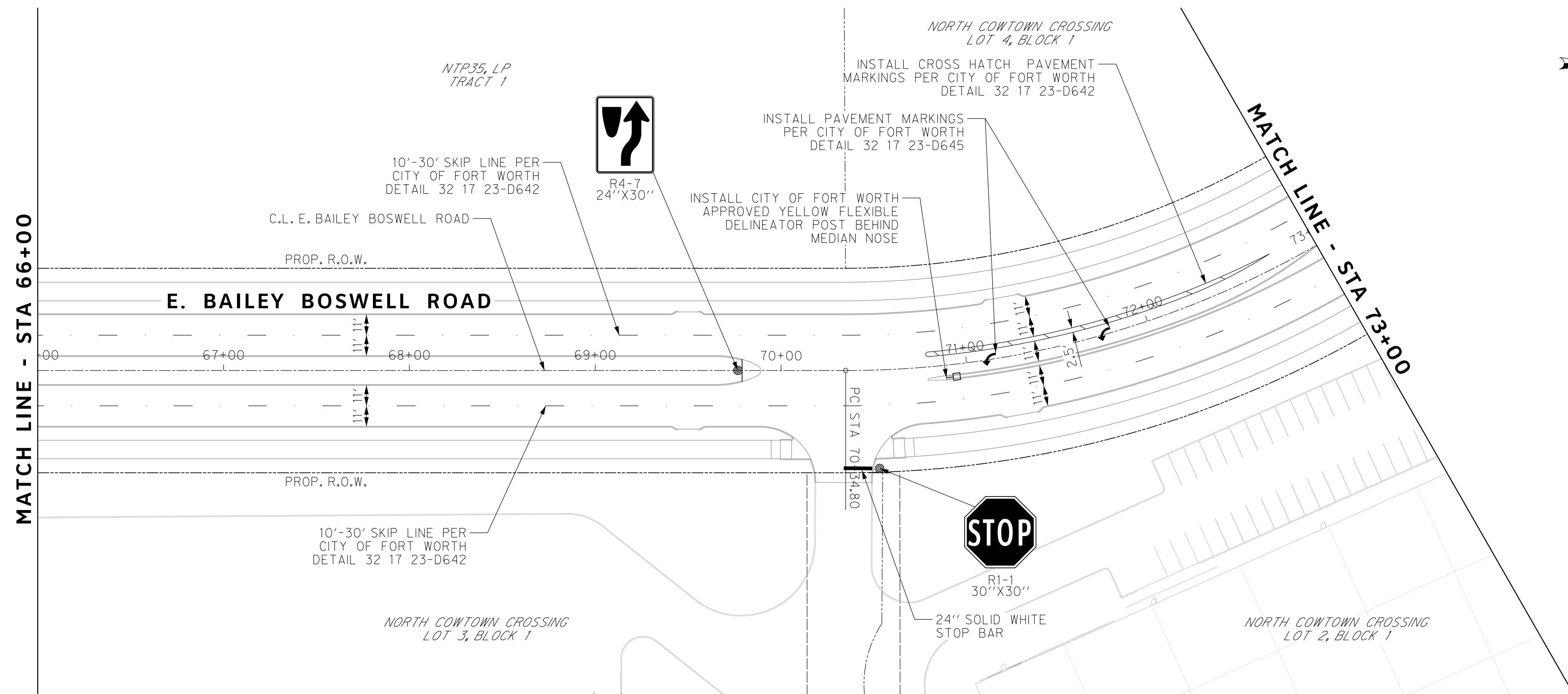
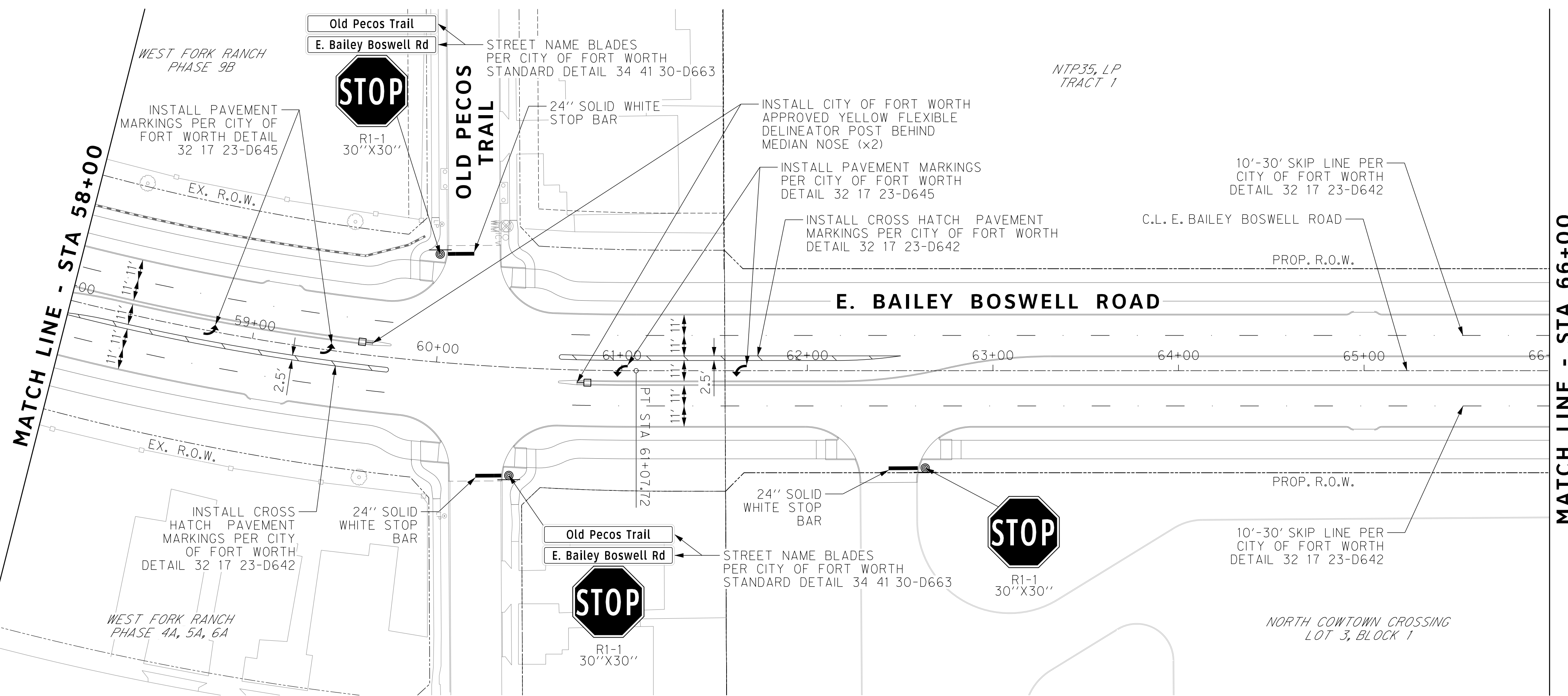
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO.
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
 EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD
PAVEMENT MARKINGS & SIGNAGE
 STA 58+00 TO STA 73+00

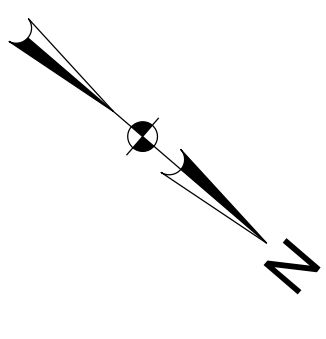
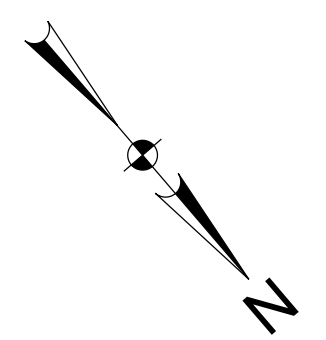
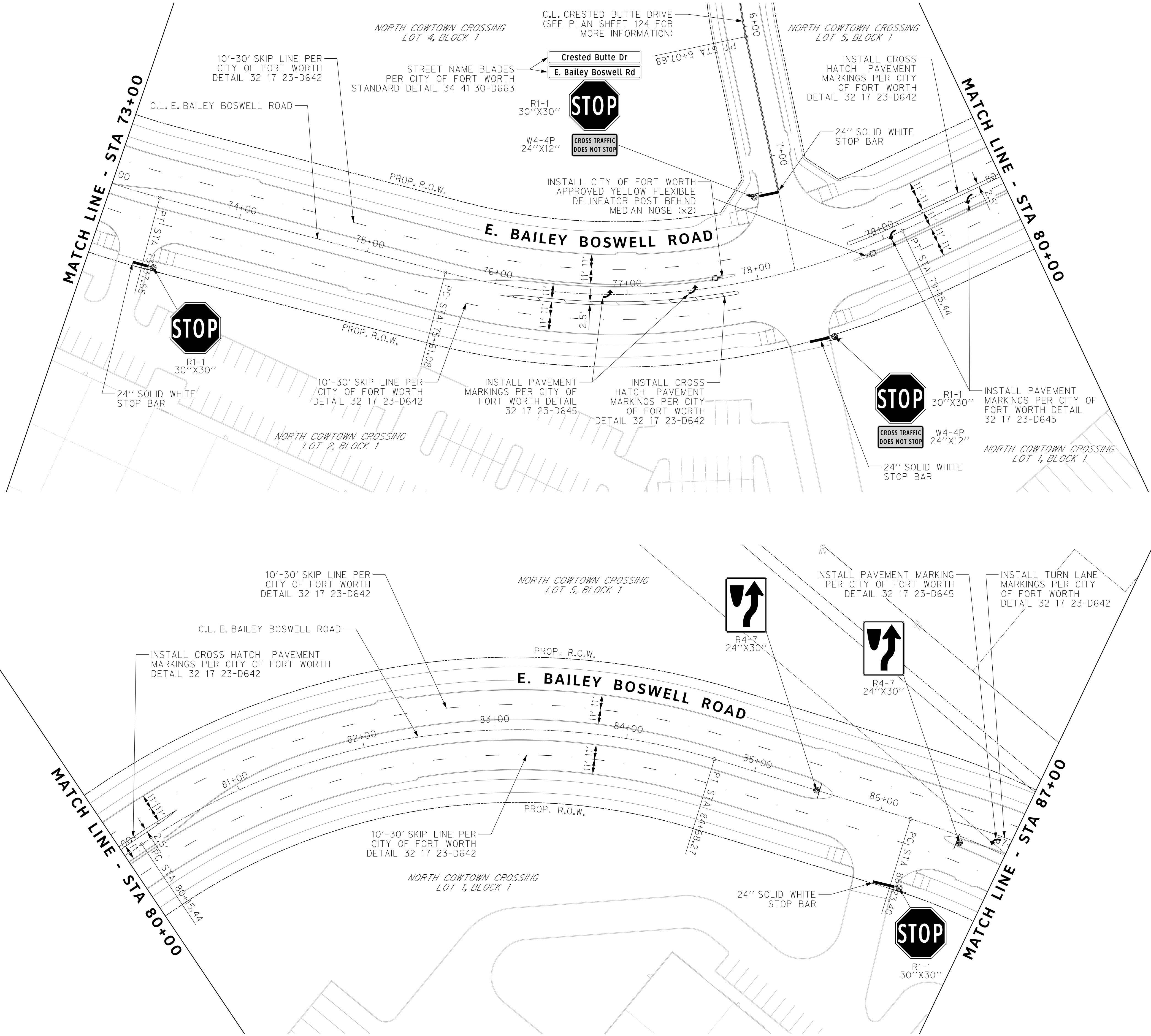
PLAN

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 120 OF 189
DRAWN: PTS			

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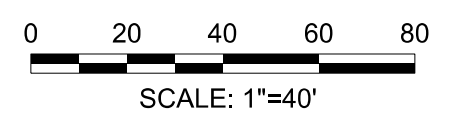


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REVISIONS

No.	DESCRIPTION	DATE
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SPMK LEGEND

- PROPOSED SIGN
- PROPOSED DELINEATOR

1. ALL DIMENSIONS ON THE PAVEMENT MARKING SHEETS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.



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CONSTRUCTION NOTES

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 FORT WORTH WATER DEPT.-FIELD OPERATIONS WATER (817) 925-2360
 FORT WORTH WATER DEPT.-FIELD OPERATIONS SANITARY SEWER (817) 223-7438
 FORT WORTH WATER DEPT.-FIELD OPERATIONS LOCATE (817) 392-6296
 FORT WORTH T&PW (817) 871-8100
 ATMOS ENERGY (817) 215-4366
 ONCOR GAS & ELECTRIC (817) 215-6214
 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 MAP NO. XXXX-XXX

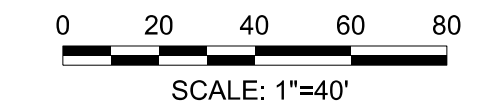
**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES**
 TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 PAVEMENT MARKINGS & SIGNAGE
 STA 73+00 TO STA 87+00**

PLAN

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 121 OF 189
DRAWN: PTS			

REVISIONS		
NO.	DESCRIPTION	DATE
1		
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SPMK LEGEND

- PROPOSED SIGN
- PROPOSED DELINEATOR

1. ALL DIMENSIONS ON THE PAVEMENT MARKING SHEETS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.



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 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

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CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
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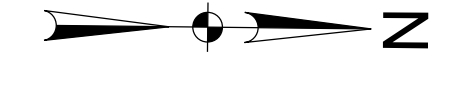
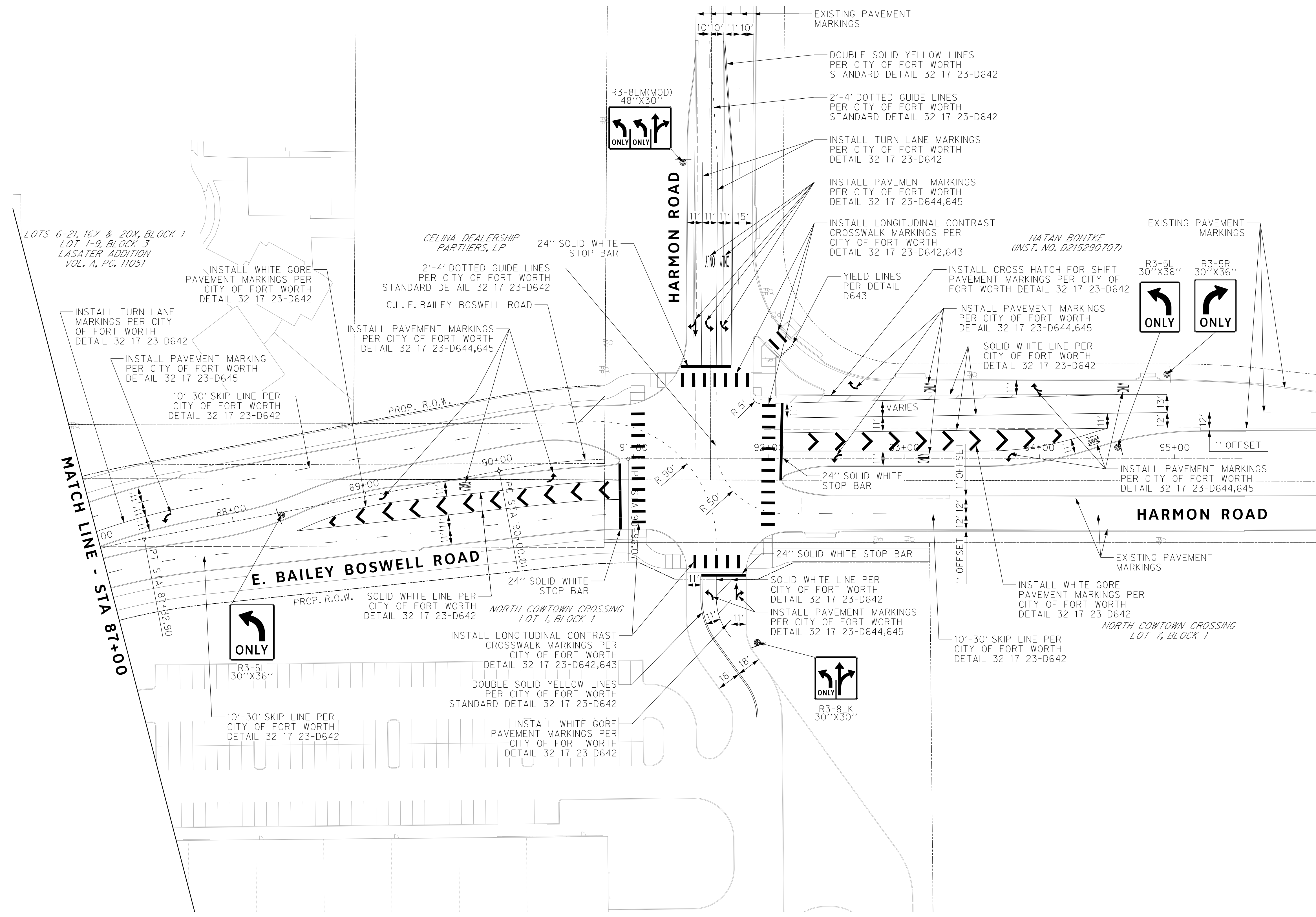
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

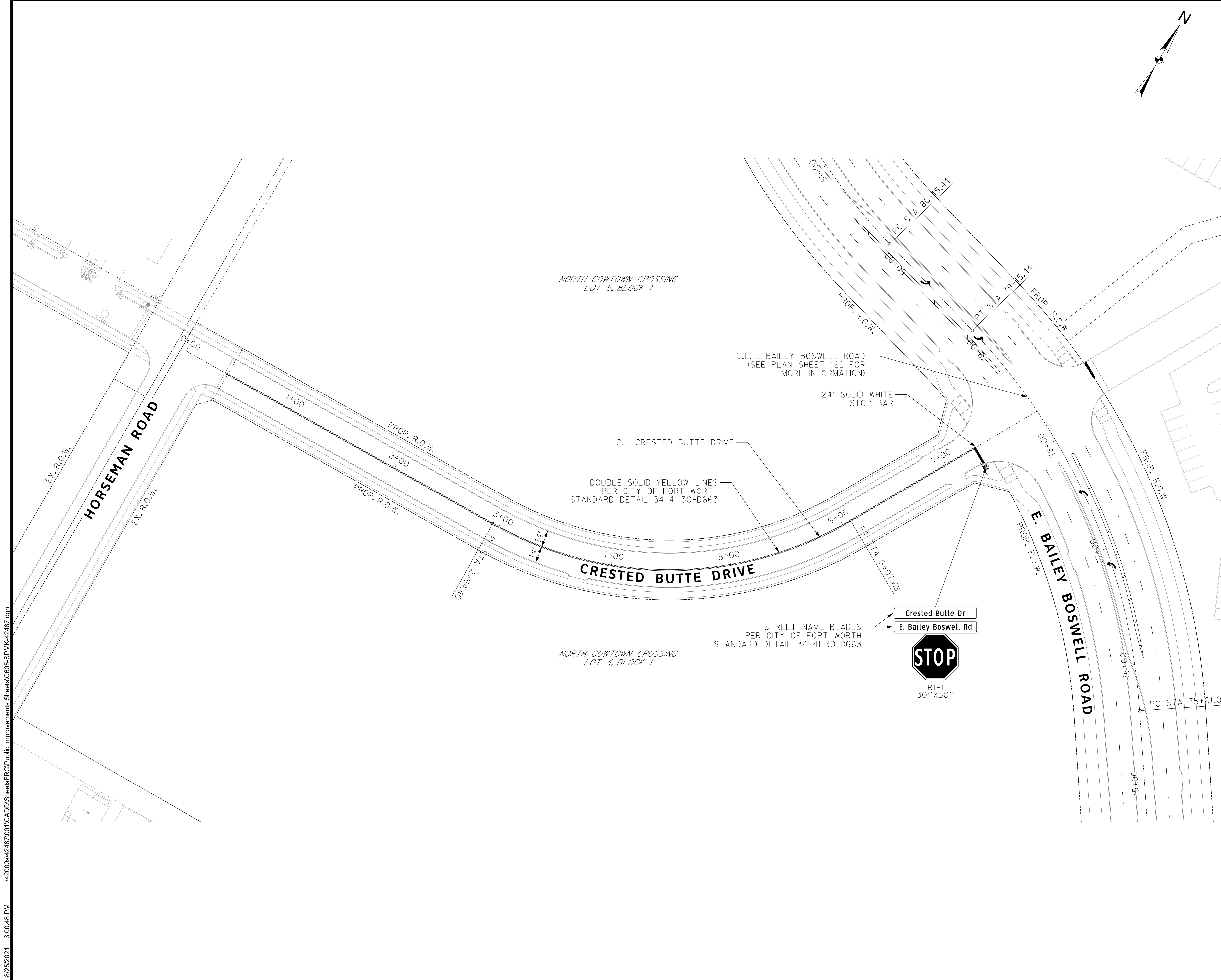
CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
PAVEMENT MARKINGS & SIGNAGE
STA 87+00 TO END

PLAN

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 122 OF 189
DRAWN: PTS			





REVISIONS		
NO.	DESCRIPTION	DATE
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SPMK LEGEND

- PROPOSED SIGN
- PROPOSED DELINEATOR

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DOE # _____ K-2840
 CITY PROJECT # 103320 MAPSCO NO. _____
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

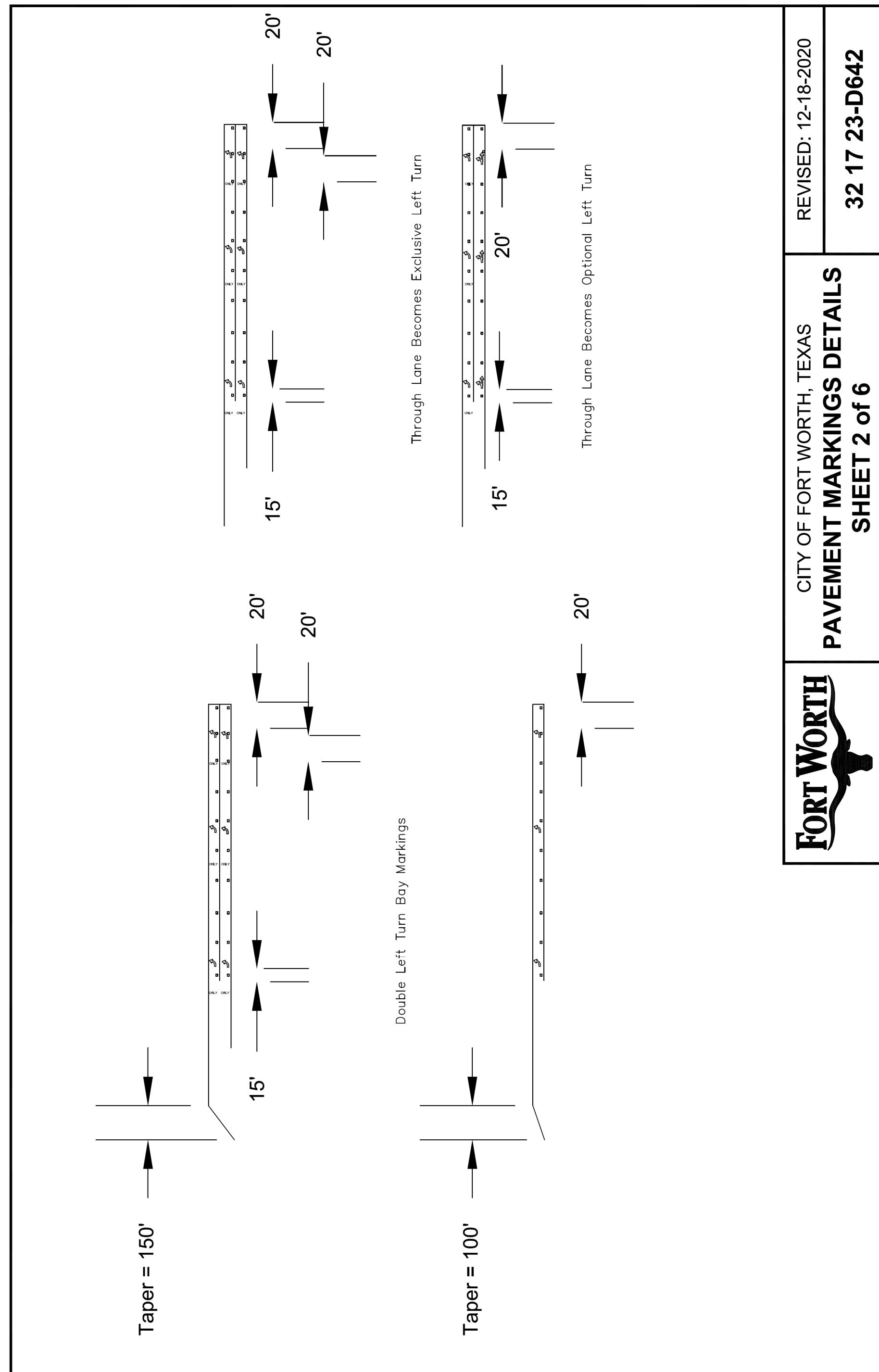
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
PAVEMENT MARKINGS & SIGNAGE
 CRESTED BUTTE DRIVE

PLAN

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 123 OF 189
DRAWN: PTS			

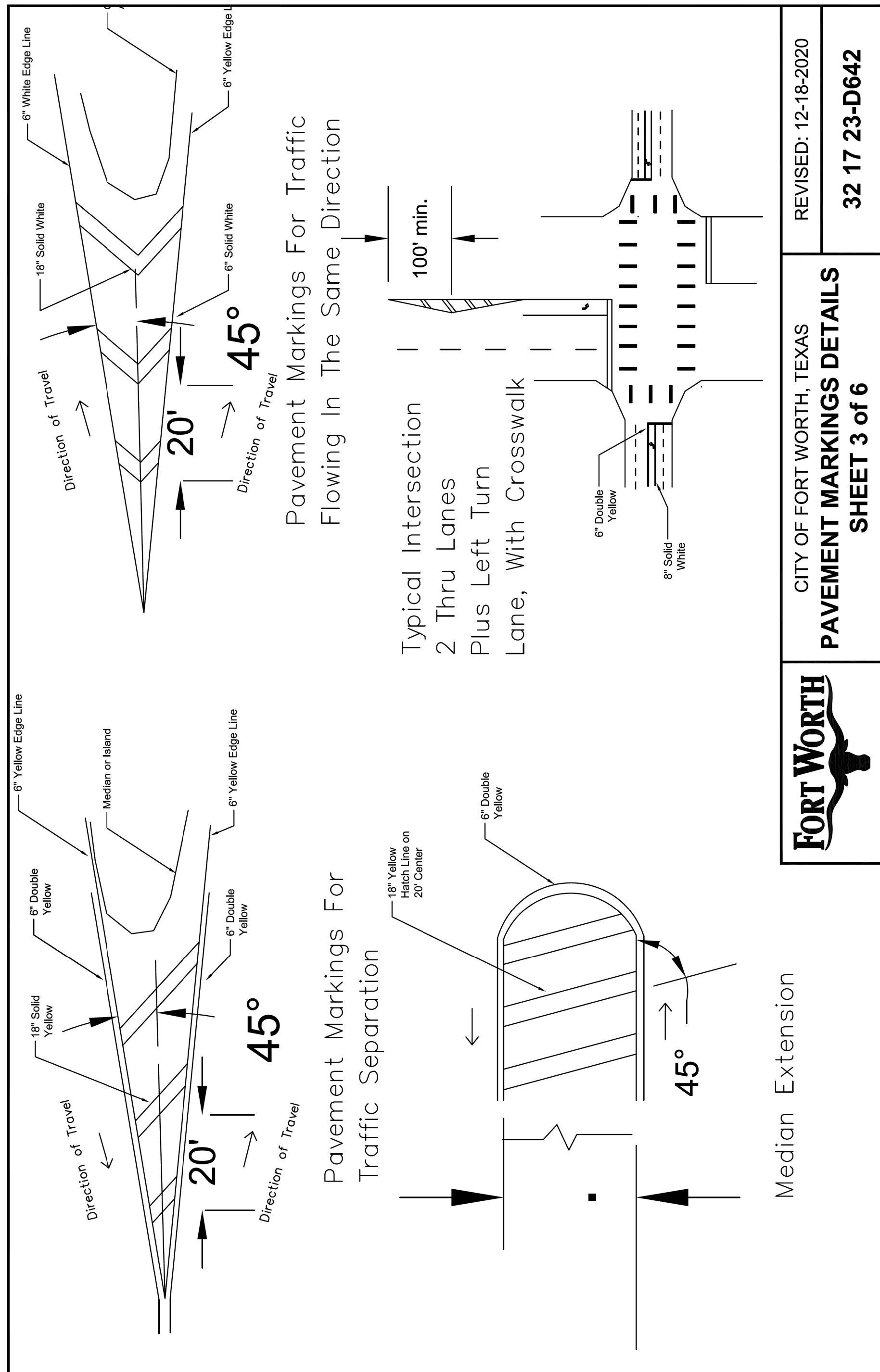
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FORT WORTH

CITY OF FORT WORTH, TEXAS
PAVEMENT MARKINGS DETAILS
SHEET 2 of 6

REVISED: 12-18-2020
32 17 23-D642



FORT WORTH

CITY OF FORT WORTH, TEXAS
PAVEMENT MARKINGS DETAILS
SHEET 3 of 6

REVISED: 12-18-2020
32 17 23-D642

REVISIONS

No.	DESCRIPTION	DATE
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 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

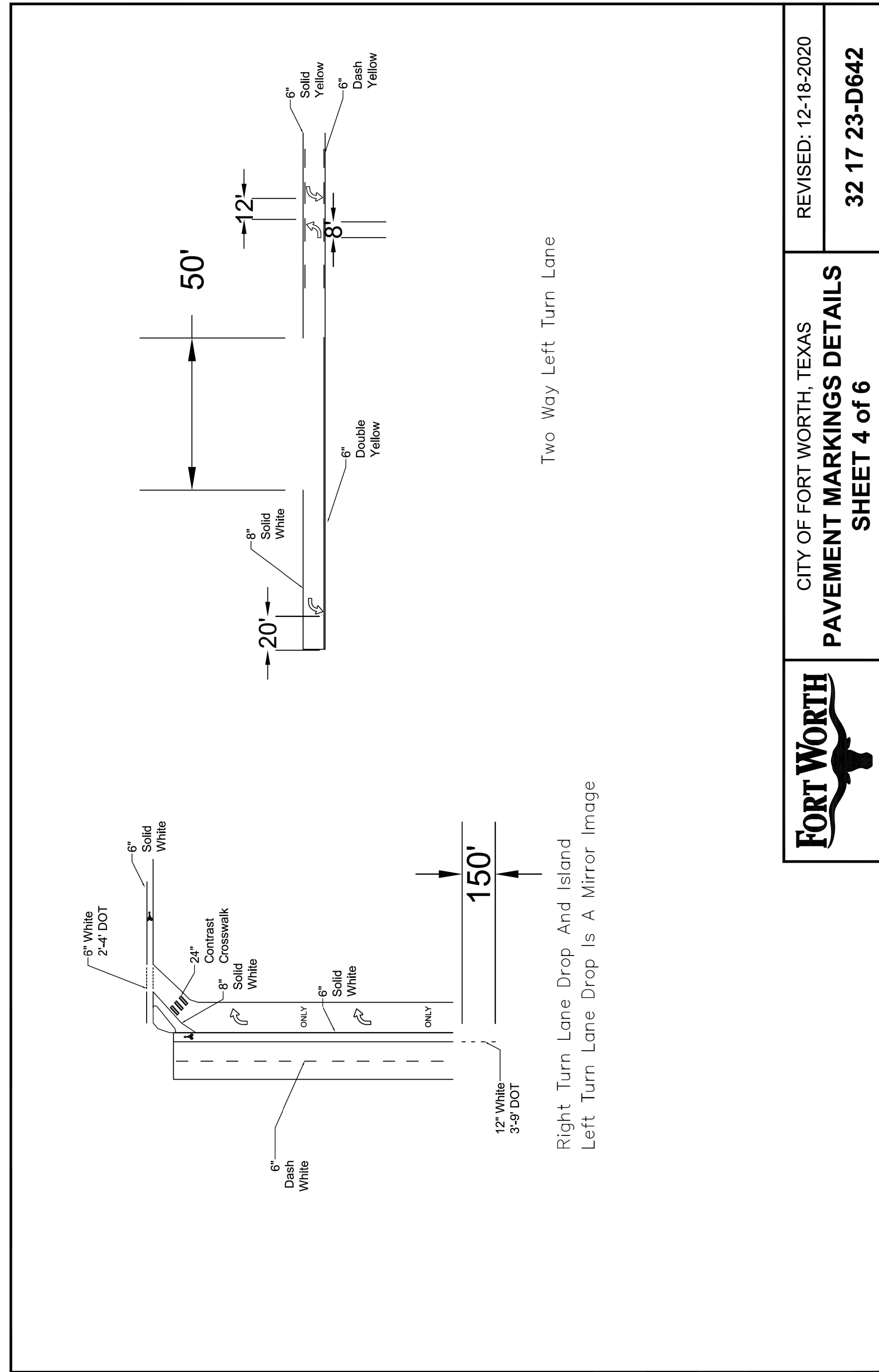
DOE # K-2840
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 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

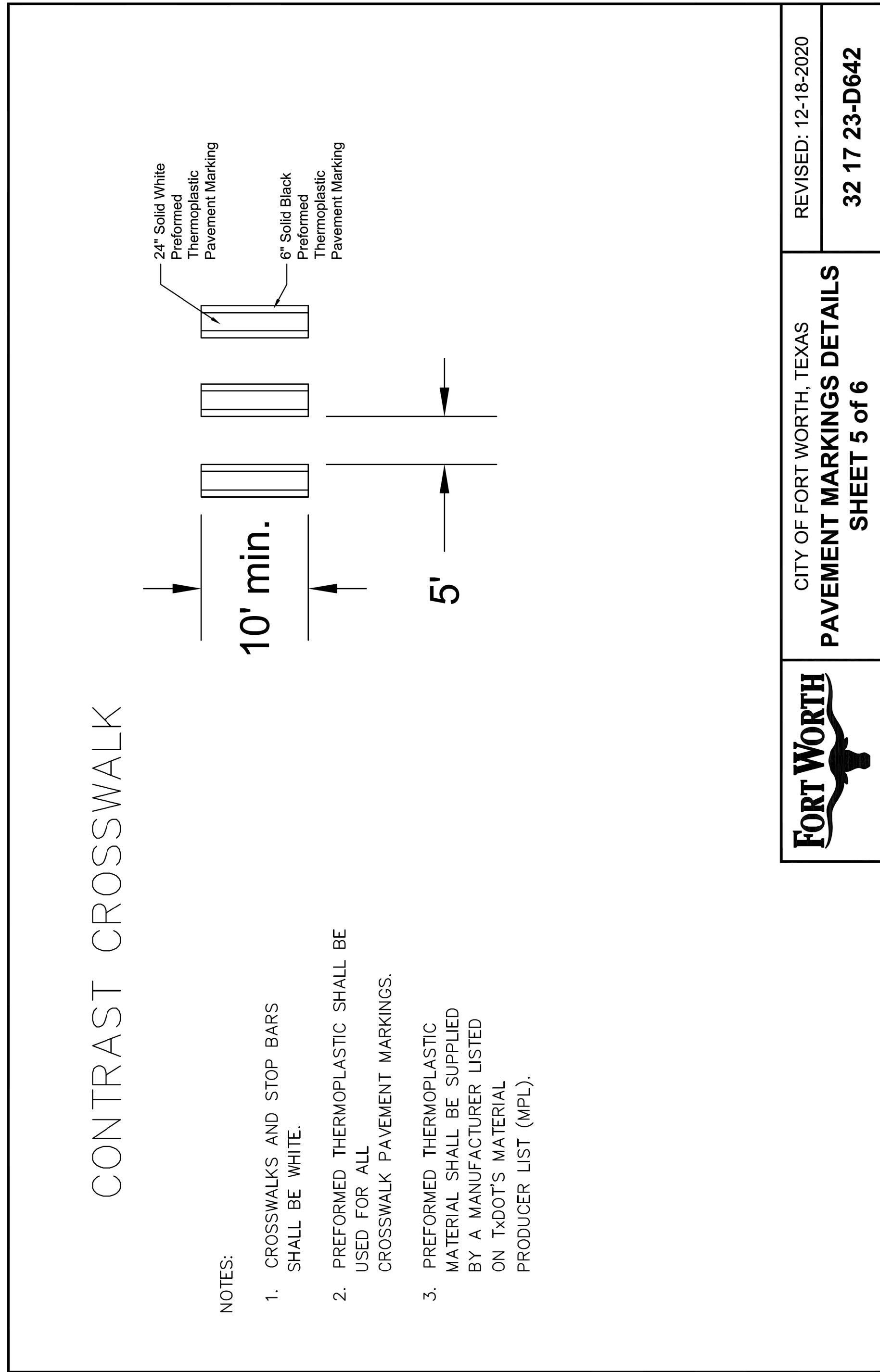
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
PAVEMENT MARKING DETAILS
(SHEET 2 OF 6)

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 125 OF 189
DRAWN: PTS			



FORT WORTH
 CITY OF FORT WORTH, TEXAS
PAVEMENT MARKINGS DETAILS
SHEET 4 of 6
 REVISED: 12-18-2020
32 17 23-D642



CONTRAST CROSSWALK

- NOTES:
- CROSSWALKS AND STOP BARS SHALL BE WHITE.
 - PREFORMED THERMOPLASTIC SHALL BE USED FOR ALL CROSSWALK PAVEMENT MARKINGS.
 - PREFORMED THERMOPLASTIC MATERIAL SHALL BE SUPPLIED BY A MANUFACTURER LISTED ON TxDOT'S MATERIAL PRODUCER LIST (MPL).

FORT WORTH
 CITY OF FORT WORTH, TEXAS
PAVEMENT MARKINGS DETAILS
SHEET 5 of 6
 REVISED: 12-18-2020
32 17 23-D642

REVISIONS		
NO.	DESCRIPTION	DATE
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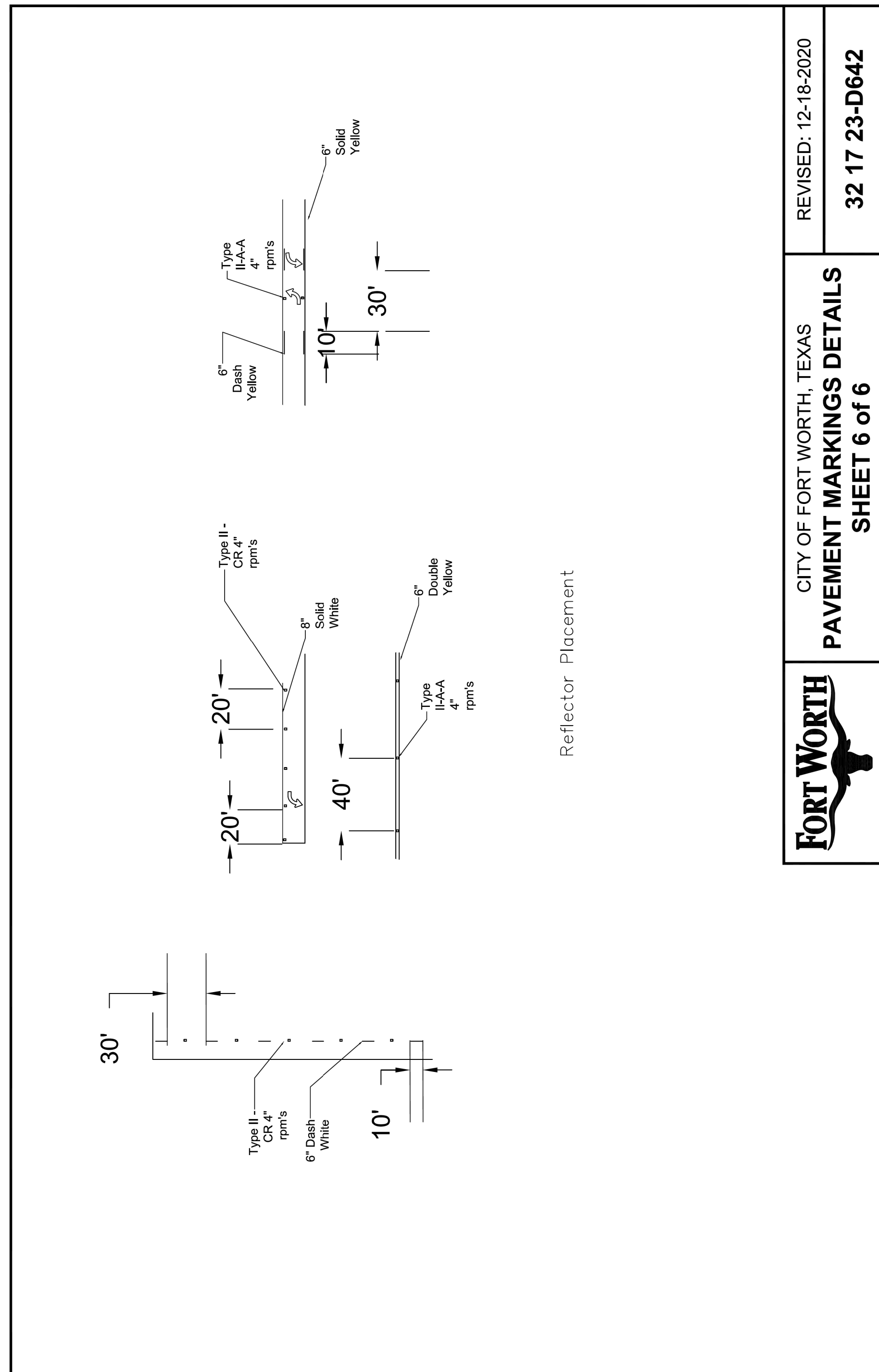
HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97

DOE # CITY PROJECT # 103320 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX MAP NO. XXXX-XXX	K-2840 MAPSCO NO. 119E AND 119F
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CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
PAVEMENT MARKING DETAILS
(SHEET 3 OF 6)

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 126 OF 189
DRAWN: PTS			



Reflector Placement

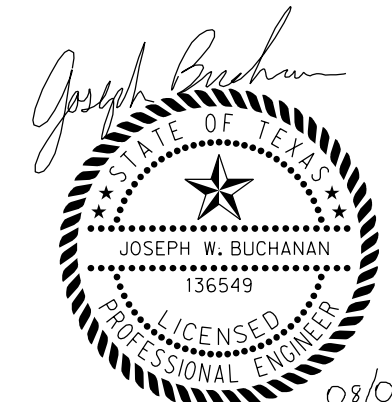


CITY OF FORT WORTH, TEXAS
PAVEMENT MARKINGS DETAILS
SHEET 6 of 6

REVISED: 12-18-2020
32 17 23-D642

REVISIONS

No.	DESCRIPTION	DATE
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SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
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DOE # K-2840
CITY PROJECT # 103320 MAPSCO NO.
TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX 119E AND 119F
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
MAP NO. XXXX-XXX

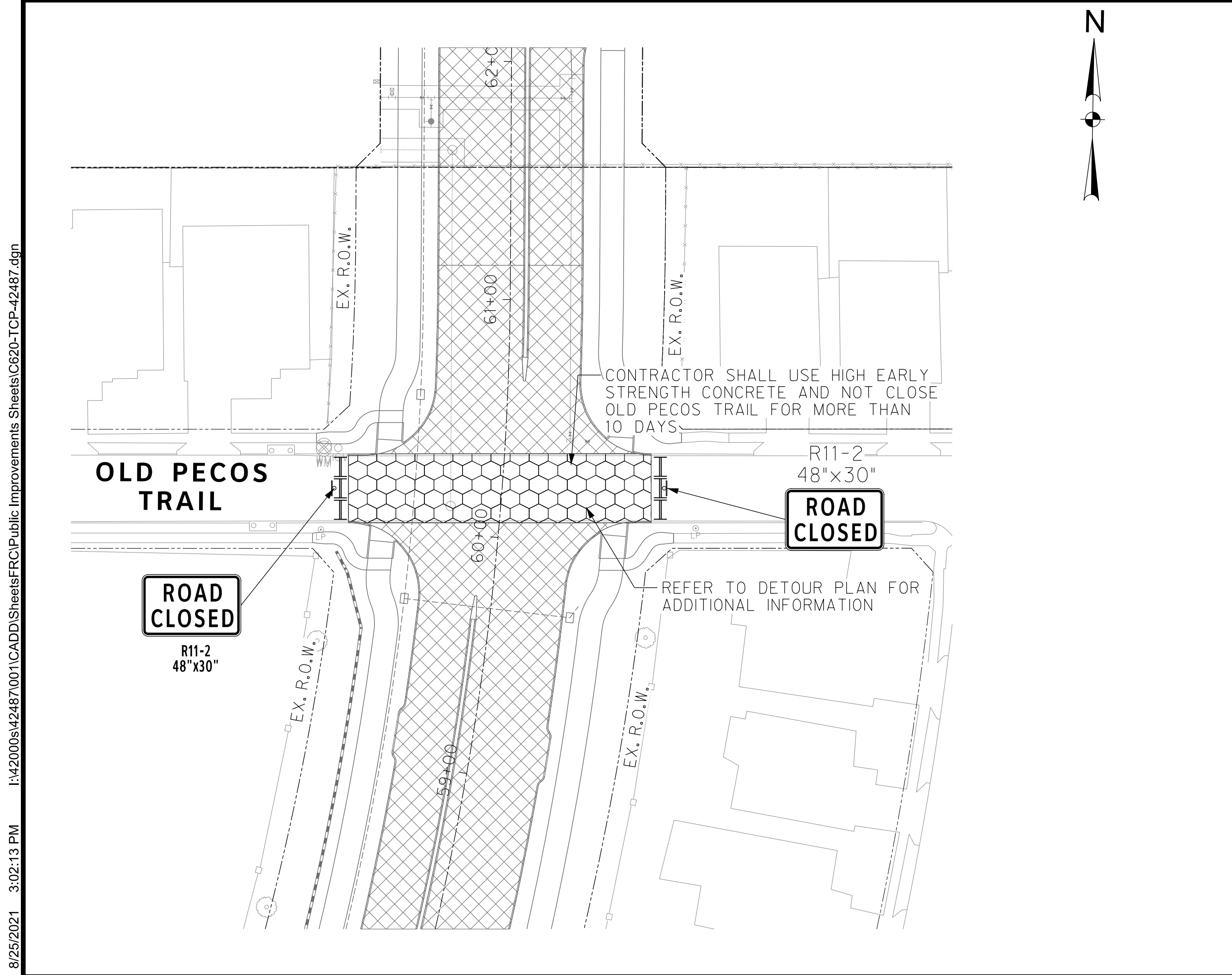
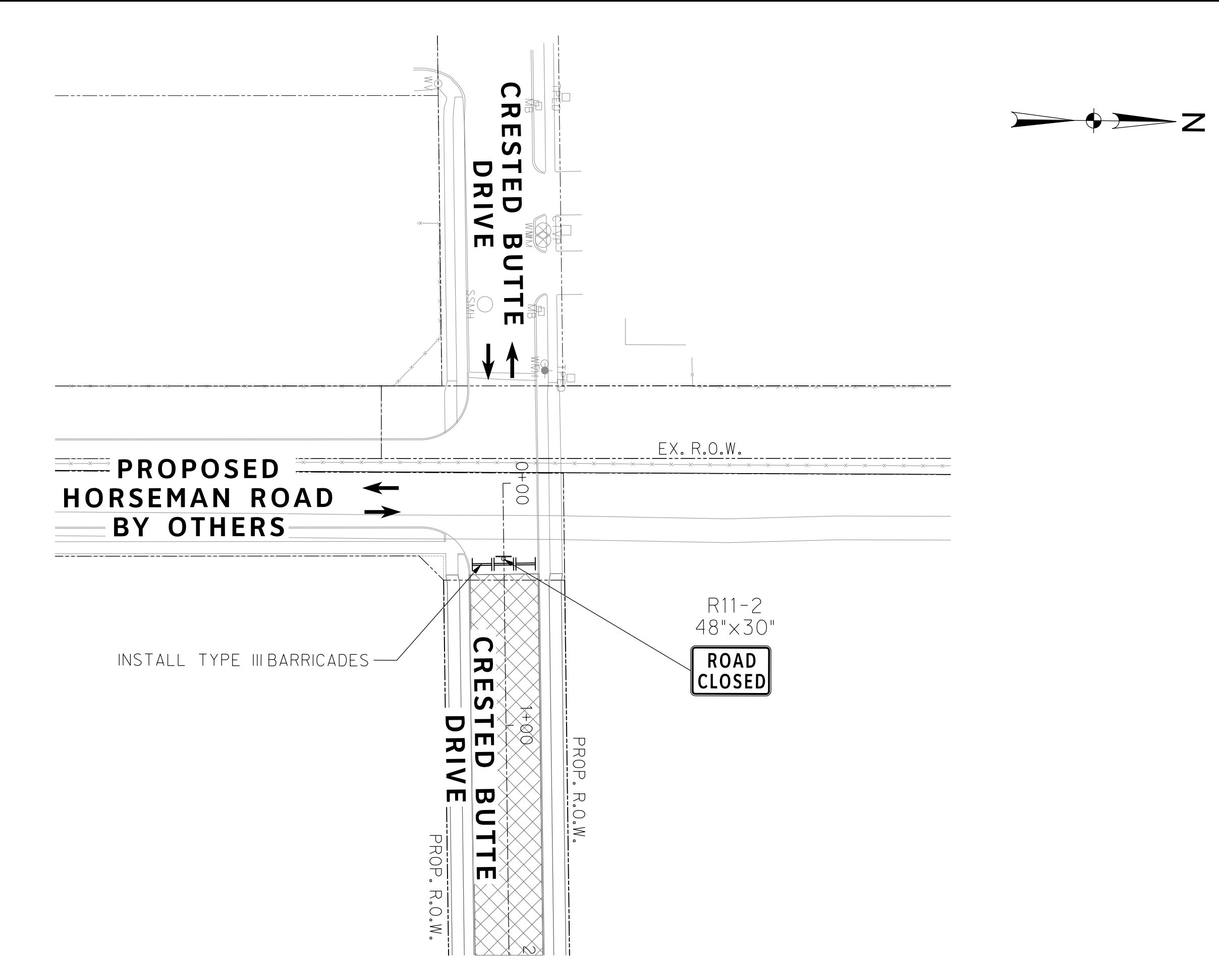
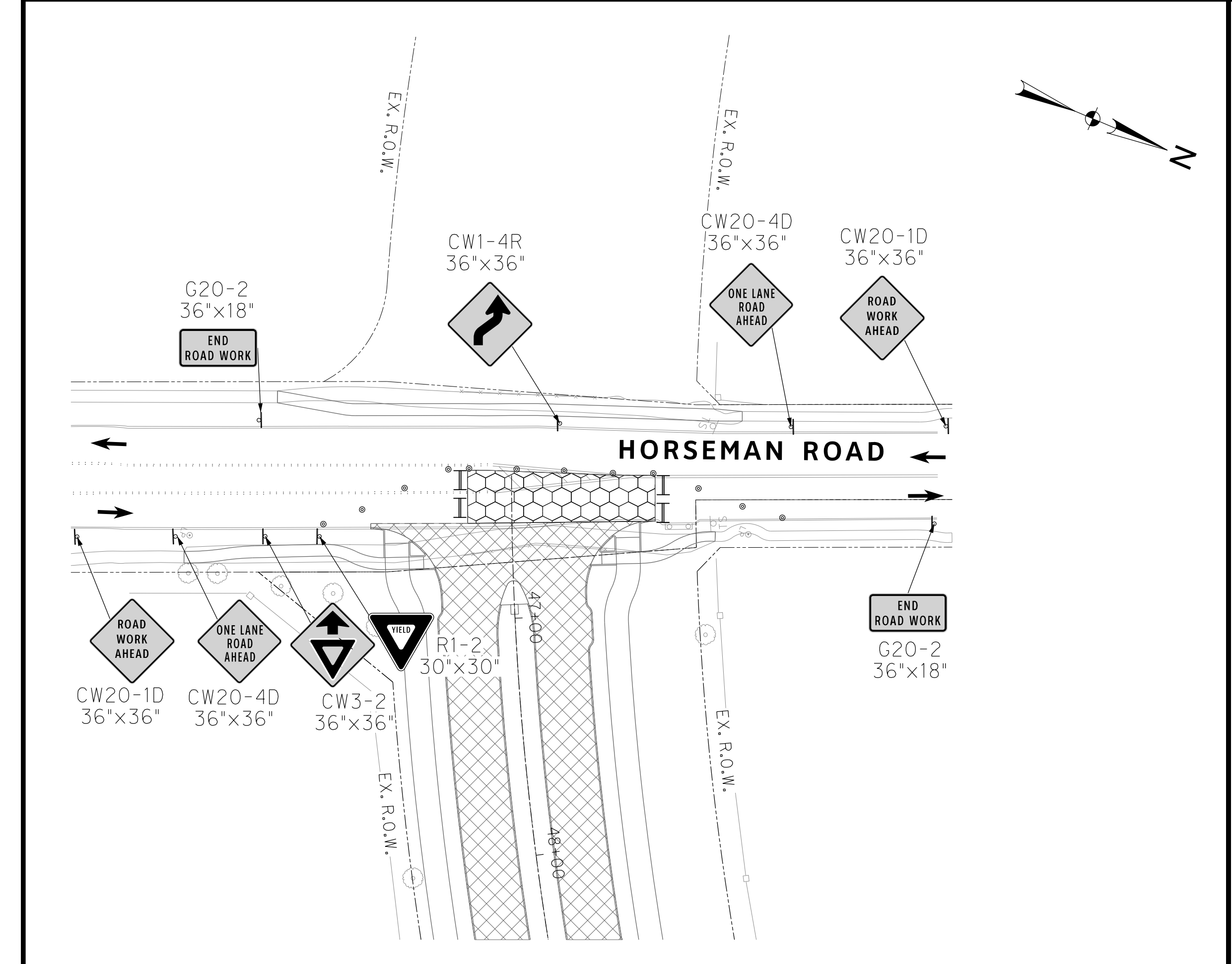
CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
PAVEMENT MARKING DETAILS
(SHEET 4 OF 6)

DESIGNED: TMW	SCALE:	DATE:	SHEET
DRAWN: PTS	N.T.S.	06/08/2021	127 OF 189

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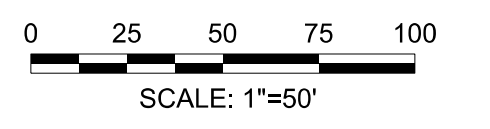


NOTE:
CONTRACTOR SHALL NOT SIMULTANEOUSLY
CONSTRUCT IMPROVEMENTS AT HORSEMAN ROAD
AND OLD PECOS TRAIL.

CONTRACTOR SHALL USE HIGH EARLY
STRENGTH CONCRETE AND NOT CLOSE
OLD PECOS TRAIL FOR MORE THAN
10 DAYS

REFER TO DETOUR PLAN FOR
ADDITIONAL INFORMATION

REVISIONS		
NO.	DESCRIPTION	DATE
1		
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3		



- PROPOSED CONSTRUCTION ZONE
- PROPOSED CONSTRUCTION ZONE (HIGH EARLY STRENGTH CONCRETE)
- PROPOSED DETOUR PAVEMENT
- TYPE III BARRICADE
- CHANNELIZING DEVICE - DRUMS



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CONSTRUCTION NOTES

NOTE: ALL DIMENSIONS AND STATION/OFFSETS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED ON PLANS.
NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING TREES, FENCES, RETAINING WALLS AND STRUCTURES UNLESS OTHERWISE NOTED.
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THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATING AT EACH LOCATION:
AT&T 1-800-878-8711
FORT WORTH WATER DEPT.-FIELD OPERATIONS WATER (817) 925-2360
FORT WORTH WATER DEPT.-FIELD OPERATIONS SANITARY SEWER (817) 223-7438
FORT WORTH WATER DEPT.-FIELD OPERATIONS LOCATE (817) 392-6296
FORT WORTH T&PW (817) 871-8100
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ONCOR GAS & ELECTRIC (817) 215-6214
TXU ENERGY 1-800-233-2133
SBC TELEPHONE (817) 338-6819
CHARTER COMM. (817) 509-6272 EXT. 3363
ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

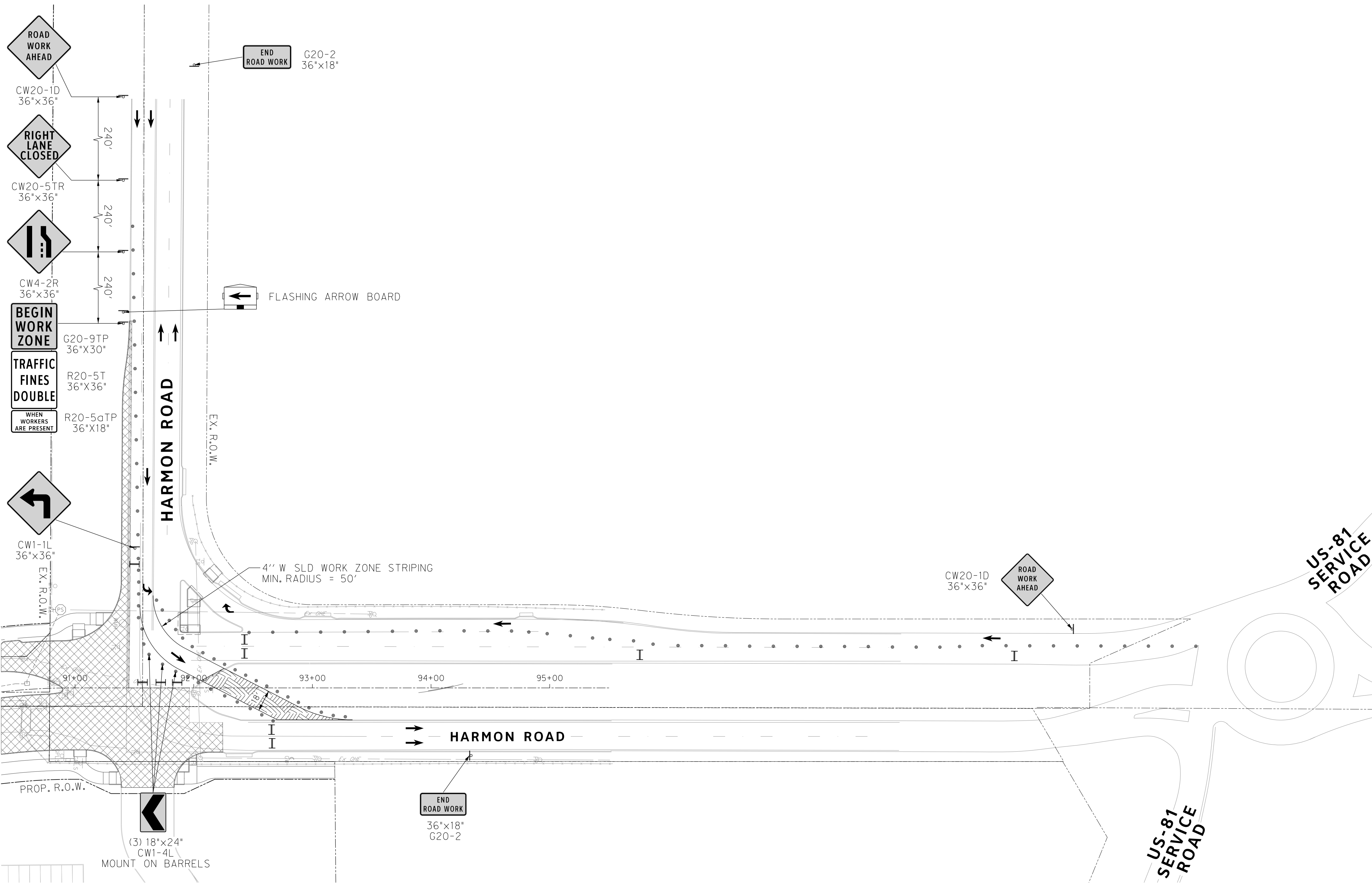
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SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
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MAP NO. XXXX-XXX

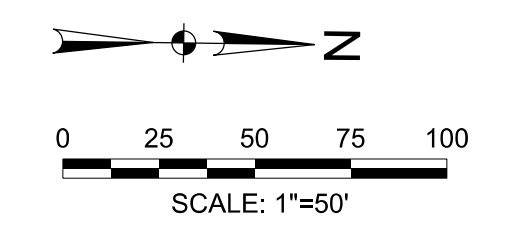
CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD
TRAFFIC CONTROL PLAN
HORSEMAN ROAD & OLD PECOS TRAIL

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 130 OF 189
DRAWN: PTS			

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- PROPOSED CONSTRUCTION ZONE
- PROPOSED CONSTRUCTION ZONE (HIGH EARLY STRENGTH CONCRETE)
- PROPOSED DETOUR PAVEMENT
- TYPE III BARRICADE
- CHANNELIZING DEVICE - DRUMS



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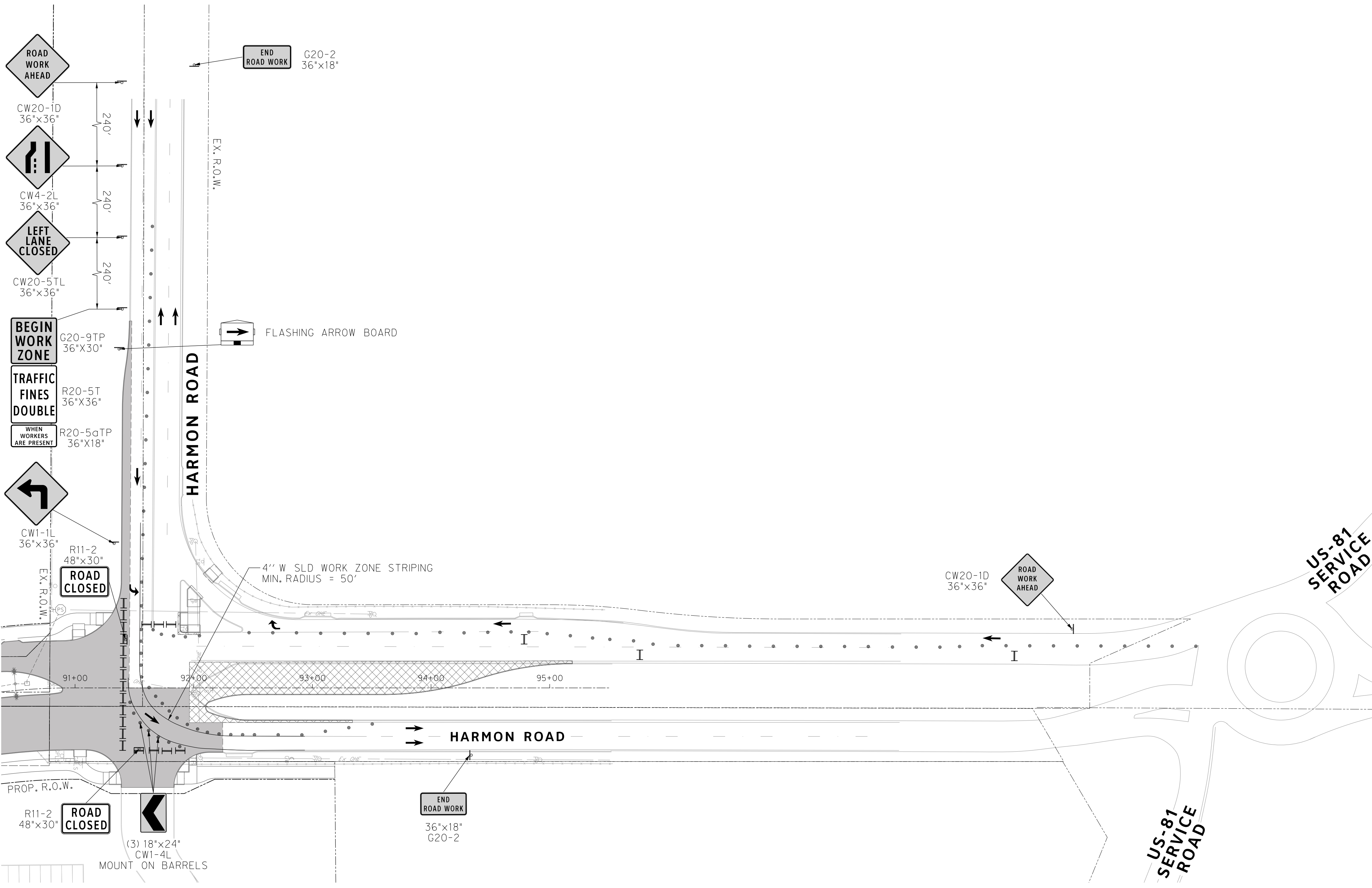
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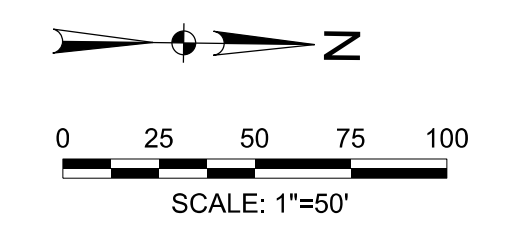
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FROM HORSEMAN ROAD TO HARMON ROAD
TRAFFIC CONTROL PLAN
HARMON ROAD INTERSECTION

DESIGNED: TMW	SCALE: 1"=50'	DATE: 06/08/2021	SHEET 131 OF 189
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HORIZONTAL & VERTICAL CONTROL

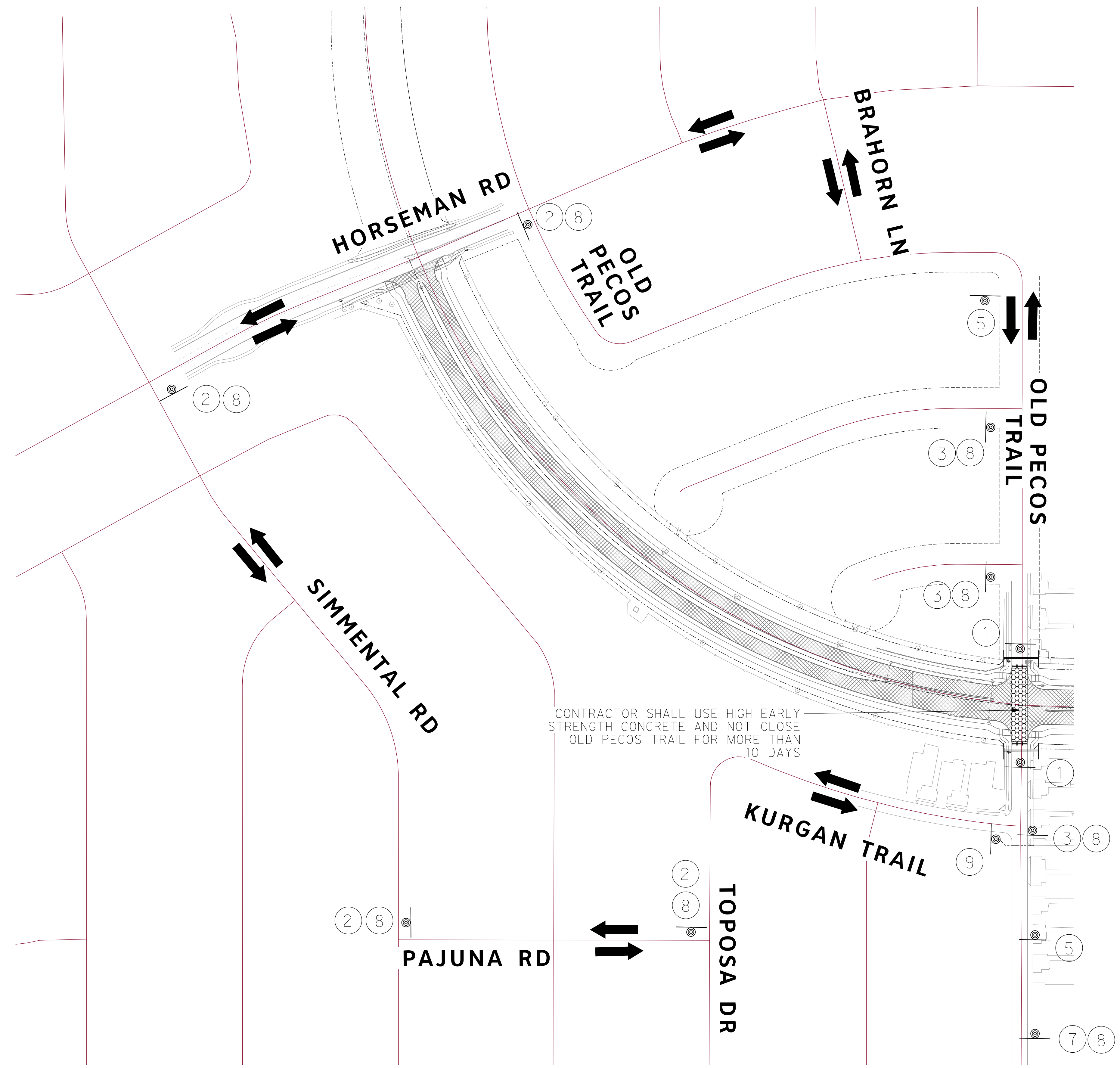
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TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD
TRAFFIC CONTROL PLAN
HARMON ROAD INTERSECTION

DESIGNED: TMW	SCALE: 1"=50'	DATE: 06/08/2021	SHEET 132 OF 189
DRAWN: PTS			

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CONTRACTOR SHALL USE HIGH EARLY STRENGTH CONCRETE AND NOT CLOSE OLD PECOS TRAIL FOR MORE THAN 10 DAYS

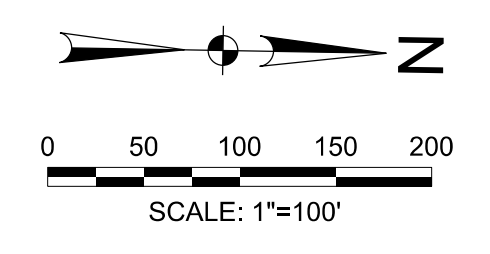
TRAFFIC CONTROL LEGEND

- DIRECTION OF TRAFFIC
- WORK ZONE SIGN ASSEMBLY
- TYPE III BARRICADE
- CONSTRUCTION ZONE

- | | |
|---|--------------------------------------|
| ROAD CLOSED
R11-2
48"X30" | DETOUR
M4-9R
24"X12" |
| ① | ② |
| DETOUR
M4-9L
24"X12" | DETOUR
M4-9S
30"X24" |
| ③ | ④ |
| ROAD CLOSED AHEAD
CW20-3D
36"X36" | END ROAD WORK
G20-2
36"X18" |
| ⑤ | ⑥ |
| DETOUR AHEAD
CW20-2D
36"X36" | OLD PECOS TRAIL
M4-12T
VARX12" |
| ⑦ | ⑧ |
| ONLY
R3-5R
30"X36" | |
| ⑨ | |

REVISIONS

NO.	DESCRIPTION	DATE
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CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
TRAFFIC CONTROL PLAN
 OLD PECOS DETOUR

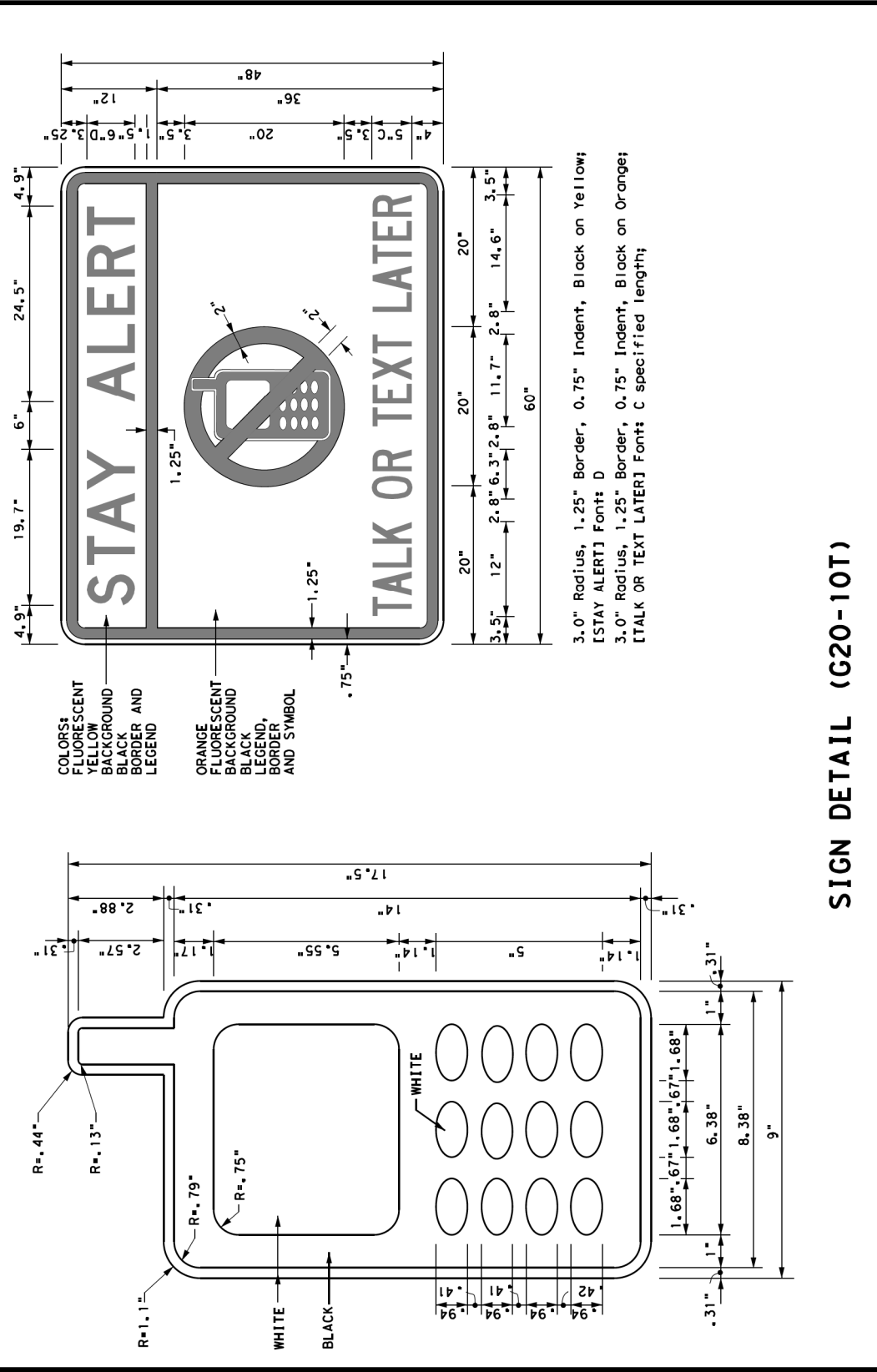
DESIGNED: TMW	SCALE: 1"=100'	DATE: 06/08/2021	SHEET 133 OF 189
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BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES

- The Barricade and Construction Standard Sheets (BC sheets) are intended to show typical examples for placement of temporary traffic control devices. The information contained in these sheets meet or exceed the requirements shown in the "Texas Manual on Uniform Traffic Control Devices" (TMUDCD).
- The development and design of the Traffic Control Plan (TCP) is the responsibility of the Engineer.
- The Contractor may propose changes to the TCP, they are signed and sealed by a licensed professional engineer for approval. The Engineer may develop, sign and seal Contractor proposed changes.
- The Contractor is responsible for installing and maintaining the traffic control devices as shown in the plans. The Contractor may not move or change the approximate location of any device without the approval of the Engineer.
- Generic design of lane shifts and detours should, when possible, meet the applicable design criteria contained in manuals such as the American Association of State Highway and Transportation Officials (AASHTO) "Roadway Design Manual" or engineering judgment.
- When agencies, other than the Engineer(s), may omit the END ROAD WORK, TRAFFIC FINES DOUBLE, and other advance warning signs if the signing would be redundant and the work areas appear continuous to the motorists. If the Engineer(s) determine that the proposed signing is not necessary, the Engineer shall provide a note on these sheets. The TCP sheets for all projects shall be reviewed by the Engineer. The BEGIN ROAD WORK NEXT X MILES sign shall be revised to show appropriate work zone distance.
- The Engineer may require duplicate warning signs on the median side of divided highways where median width will permit and traffic volumes justify the signing.
- All signs shall be constructed in accordance with the details found in the "Standard Highway Sign Designs for Texas, in latest edition. The Engineer shall provide a detail to the contractor before the sign is manufactured.
- The temporary traffic control devices shown in the illustrations of the most appropriate traffic control devices to be used.
- As shown on BC(2), the OBEY WARNING SIGNS STATE LAW STOP, STAY ALERT TALK OR TEXT LATER (see Sign Detail G20-10T) and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shall be erected in advance of the CSJ limits. However, the "Talk or Text Later" sign will only be required on projects with a posted speed limit of 40 mph or higher. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK signs shall be erected at or near the CSJ limits.
- Except for devices required by Note 10, traffic control devices should be in place only while work is actually in progress or a definite need exists.
- The Engineer has the final decision on the location of all traffic control devices.
- Inoperative equipment and work vehicles, including workers' private vehicles must be parked away from travel lanes. They should be as close to the shoulder as possible, or located behind a barrier or guardrail, or as approved by the Engineer.

WORKER SAFETY APPAREL NOTES

- Workers on foot who are exposed to traffic or to construction equipment shall wear safety apparel. The minimum requirements for High-Visibility Apparel, or equivalent revisions, and labeled as ANSI 107-2004 standard performance for Class 2 or 3 risk exposure. Class 3 garments should be considered for high traffic volume work areas or night time work.



SIGN DETAIL (G20-10T)

Only the specified products should be used. The "Small" Work Zone Traffic Control Devices List (CWZCD) does not have pre-qualified products and their sources and may be found on-line at the web address given below or by contacting:

Texas Department of Transportation
Traffic Operations Division - TE
Phone (512) 416-3118

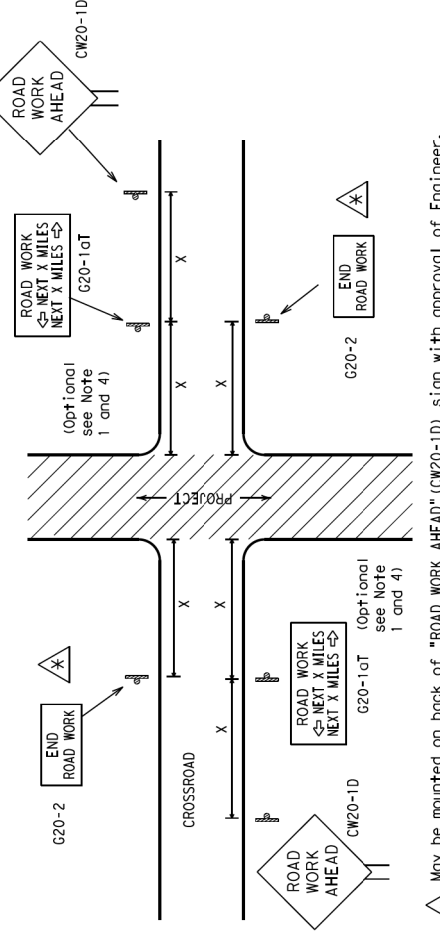
THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT
<http://www.tdot.gov>

COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST (CWZCD)
DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS)
MATERIAL PRODUCER LIST (MPL)
ROADWAY DESIGN MANUAL - SEE "MANUALS (ON-LINE MANUALS)"
STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD)
TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUDCD)
TRAFFIC ENGINEERING STANDARD SHEETS

BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS BC (1) - 14

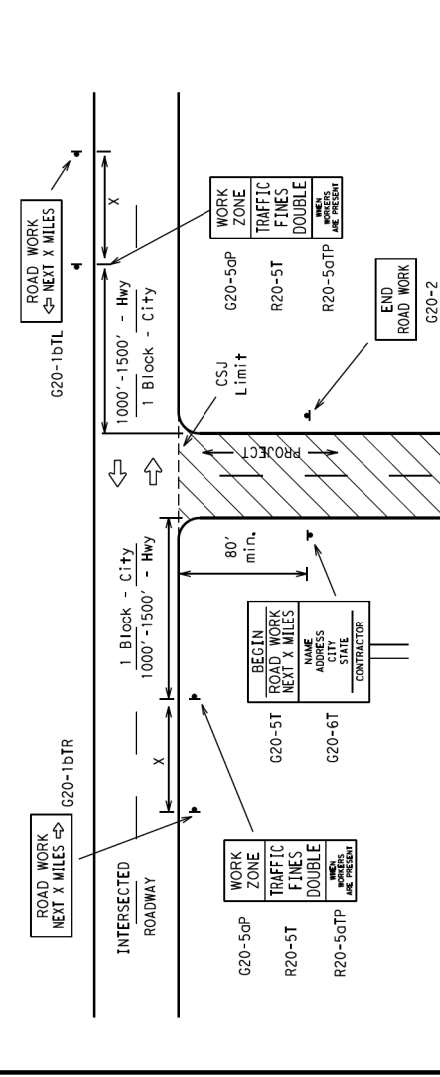
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DATE: 02-14-2009
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TYPICAL LOCATION OF CROSSROAD SIGNS



- Signs are located on back of "ROAD WORK AHEAD" sign with approval of Engineer.
- The typical minimum signing on a crossroad should be a "ROAD WORK AHEAD" (CRD-10) sign and a "ROAD WORK NEXT X MILES" (CRD-11) sign. The "ROAD WORK AHEAD" sign should be placed back to back with the "ROAD WORK NEXT X MILES" sign on low volume roadways. See Note 4 under "GENERAL NOTES" for sign details. The Engineer may omit the advance warning signs on low volume roadways.
- Based on existing field conditions, the Engineer/Inspector may require additional signs such as "ROAD WORK AHEAD" (CRD-10) signs on the back of the "ROAD WORK NEXT X MILES" sign. The "ROAD WORK AHEAD" sign should be placed on the back of the "ROAD WORK NEXT X MILES" sign. The "ROAD WORK AHEAD" sign should be placed on the back of the "ROAD WORK NEXT X MILES" sign.
- The "ROAD WORK NEXT X MILES" sign shall be required at high volume approaches to a T-intersection. The "ROAD WORK AHEAD" sign shall be required at high volume approaches to a T-intersection. The "ROAD WORK AHEAD" sign shall be required at high volume approaches to a T-intersection.
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T-INTERSECTION



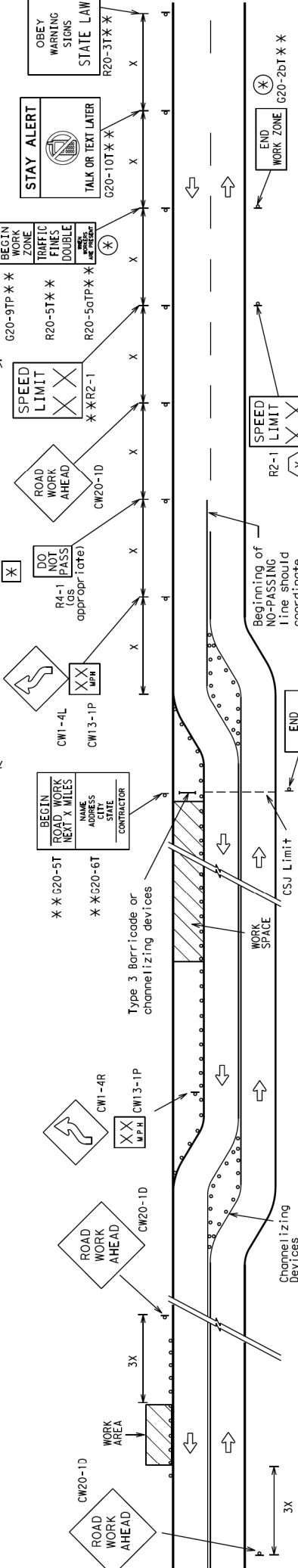
- The Engineer shall determine the time and location of any additional traffic control devices, such as a flagger and accompanying signs, or other signs, that should be used when work is being performed at or near an intersection.
- Reconstruction closes the road at a T-intersection. The contractor shall place the "CONTRACTOR WORK ZONE" sign on the back of the "ROAD WORK AHEAD" sign. The "CONTRACTOR WORK ZONE" sign shall be placed on the back of the "ROAD WORK AHEAD" sign.

TYPICAL CONSTRUCTION WARNING SIGN SIZE AND SPACING

USE Number or Series	SIZE	SPACING
CRW-1	48" x 48"	48' x 48'
CRW-2	36" x 36"	36' x 36'
CRW-3	48" x 48"	48' x 48'
CRW-4	48" x 48"	48' x 48'
CRW-5	48" x 48"	48' x 48'
CRW-6	48" x 48"	48' x 48'
CRW-7	48" x 48"	48' x 48'
CRW-8	48" x 48"	48' x 48'
CRW-9	48" x 48"	48' x 48'
CRW-10	48" x 48"	48' x 48'

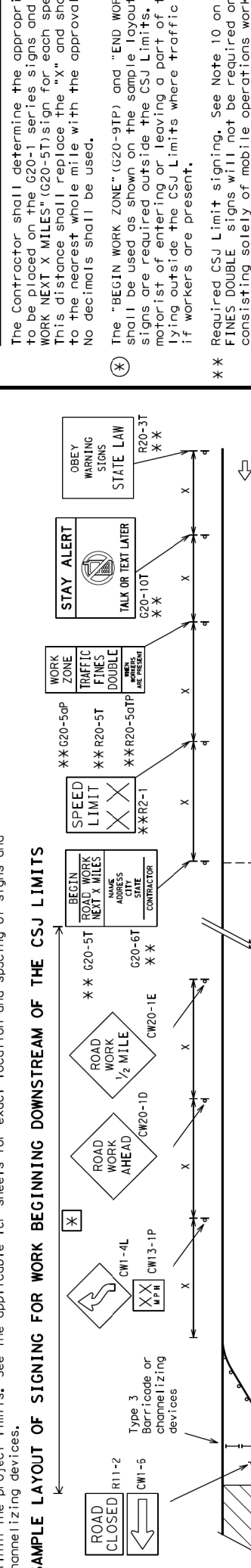
- Section or flagger sign may be used as necessary.
- Distance between signs should be increased as required to have 100 feet or more advance warning.
- Distance between signs should be increased as required to have 1/2 mile or more advance warning.
- 36" x 36" "ROAD WORK AHEAD" (CRW-2) signs may be used on low volume roadways at the discretion of the Engineer. See Note 2 under "Typical Construction Warning Sign Size and Spacing".
- Only advance signed warning sign sizes are indicated.
- See Sign Size Chart in "Manuals" Sign Appendix or the "Standard Highway Sign Designs for Texas" for details on sign sizes for advance warning signs.

SAMPLE LAYOUT OF SIGNING FOR WORK BEGINNING AT THE CSJ LIMITS



- When extended distances occur between initial work zones, the Engineer/Inspector should ensure additional "ROAD WORK AHEAD" signs are placed in advance of these work areas to remind drivers they are still in the work zone. See the appropriate sign details for each type of sign used.
- The "ROAD WORK AHEAD" sign shall be required at high volume approaches to a T-intersection. The "ROAD WORK AHEAD" sign shall be required at high volume approaches to a T-intersection.
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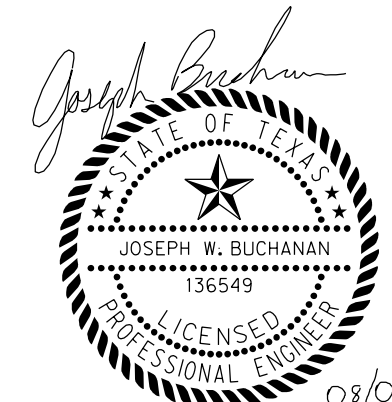
SAMPLE LAYOUT OF SIGNING FOR WORK BEGINNING DOWNSTREAM OF THE CSJ LIMITS



- The Contractor shall determine the appropriate distance between signs for each specific project. No one final shall be used.
- The "BEGIN ROAD WORK" (CRD-11) and "END ROAD WORK" (CRD-12) signs shall be placed on the back of the "ROAD WORK NEXT X MILES" sign. The "BEGIN ROAD WORK" sign shall be placed on the back of the "ROAD WORK NEXT X MILES" sign.
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MAP NO. XXXX-XXX

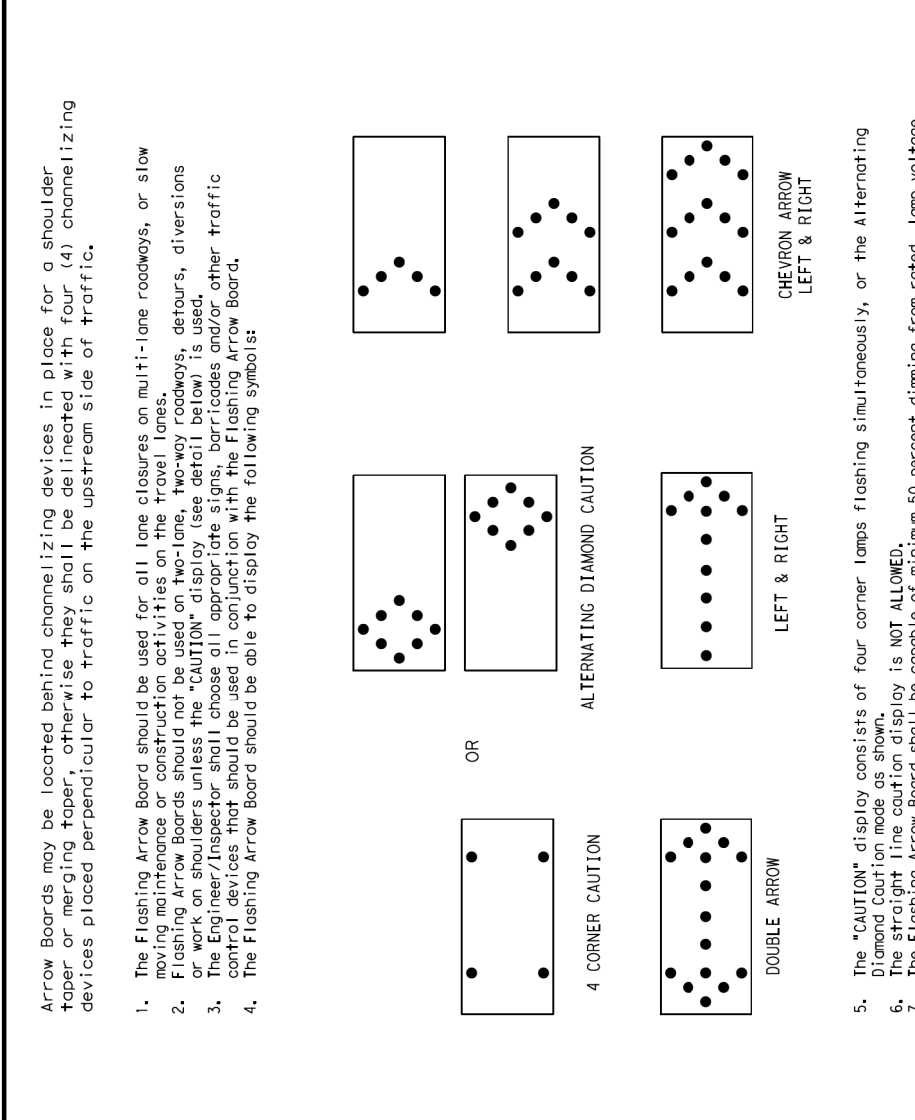
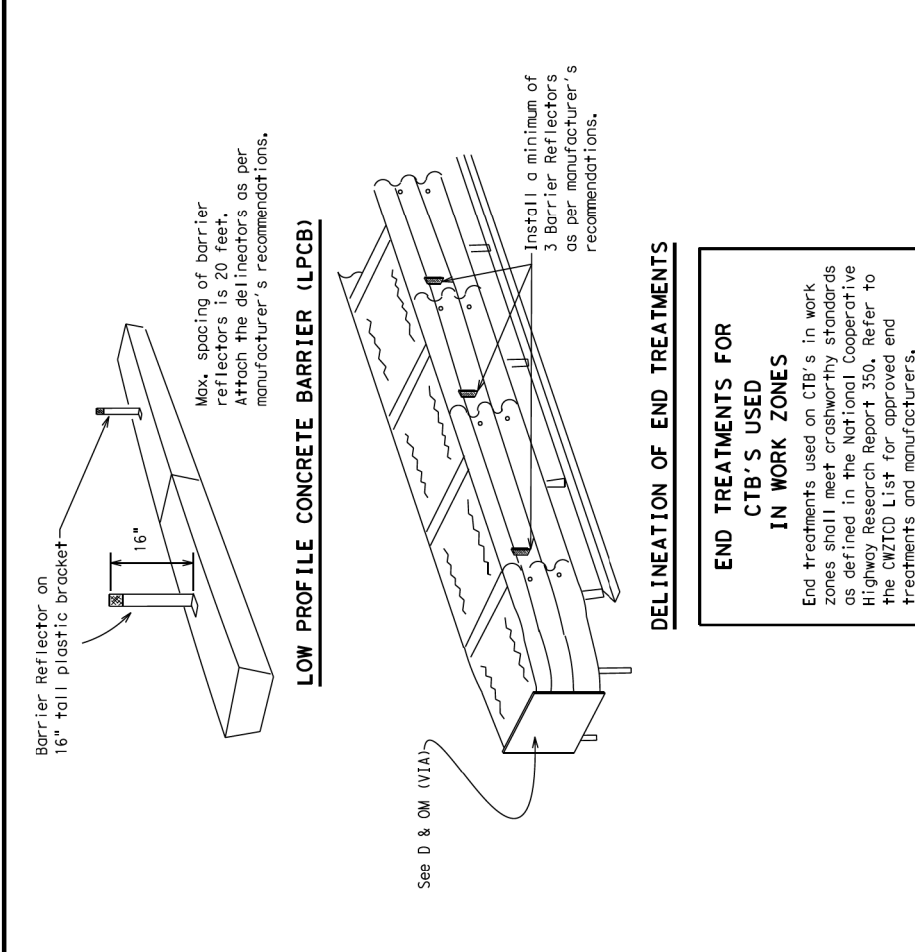
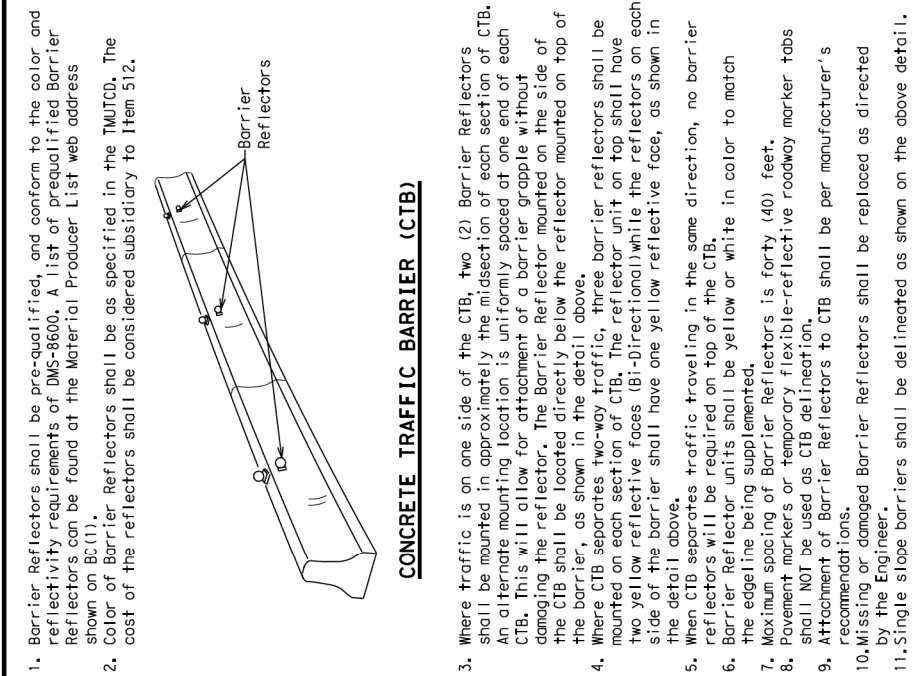
CITY OF FORT WORTH, TEXAS TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD

TRAFFIC CONTROL DETAILS (SHEET 2 OF 7)

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 135 OF 189
DRAWN: PTS			



GENERAL NOTES
 1. For long term efficiency work zones on freeways, drums shall be used on the primary channelizing device. Work zones on freeways, drums shall be used on the primary channelizing device but may be replaced in turnpike areas. Their use shall be as indicated on this sheet. Other areas, their use shall be as indicated on this sheet. Other areas, their use shall be as indicated on this sheet.

WARNING LIGHTS
 1. Warning lights shall meet the requirements of the MUTCD. 2. Warning lights shall be installed on this sheet. 3. Warning lights shall be installed on this sheet. 4. Type C and Type D 360 degree Steady Burn Lights are intended to be used in a series for delineation to supplement other traffic control devices.

WARNING REFLECTORS MOUNTED ON PLASTIC DRUMS AS A SUBSTITUTE FOR TYPE C (STEADY BURN) WARNING LIGHTS
 1. A warning reflector or approved substitute may be mounted on a plastic drum as a substitute for a Type C, steady burn warning light at the delineation of the work zone. The reflector shall be as shown in the detail above. The reflector shall be as shown in the detail above.

FLASHING ARROW BOARDS
 The "CAUTION" display consists of four corner lamps flashing simultaneously, or the Alternating Diamond Caution, or the Alternating Left & Right, or the Alternating Chevron Arrow Left & Right.

REQUIREMENTS
 TYPE MINIMUM SIZE OF PANEL LAMPS MINIMUM NUMBER OF PANEL LAMPS MINIMUM DISTANCE BETWEEN LAMPS
 A 48 x 96 15 15
 B 30 x 48 13 13
 C 48 x 96 15 15

TRUCK-MOUNTED ATTENUATORS
 1. Truck-mounted attenuators (TMAs) used on I-405 facilities shall be as shown in the detail above. The TMA shall be as shown in the detail above. The TMA shall be as shown in the detail above.

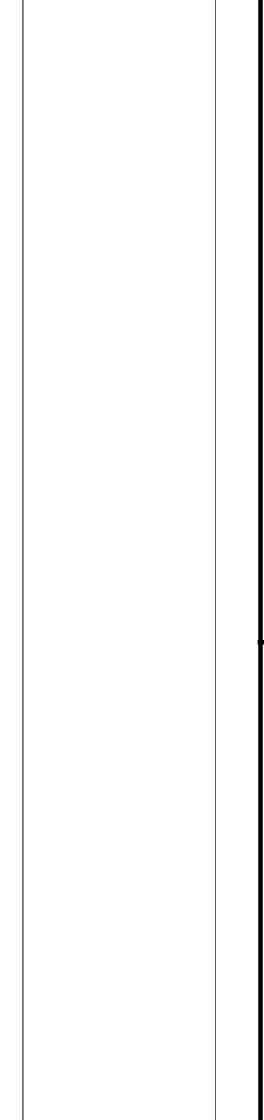
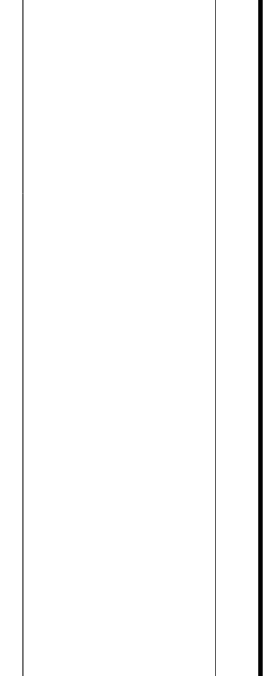
GENERAL NOTES
 1. Signs used on plastic drums shall be manufactured using substrates listed on the callouts. 2. Signs used on plastic drums shall be manufactured using substrates listed on the callouts. 3. Signs used on plastic drums shall be manufactured using substrates listed on the callouts.

RETROREFLECTIVE SHEETING
 1. The sheeting used on drums shall be constructed of sheeting meeting the specifications of the MUTCD. 2. The sheeting used on drums shall be constructed of sheeting meeting the specifications of the MUTCD. 3. The sheeting used on drums shall be constructed of sheeting meeting the specifications of the MUTCD.

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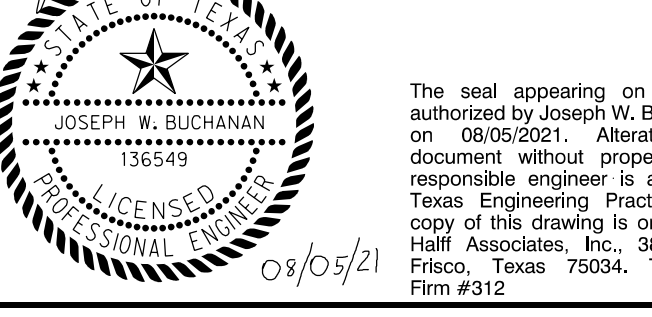
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REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES		
SHEET 8 OF 12		
Texas Department of Transportation		
DATE: 08/14/2021	TIME: 10:00 AM	PROJECT: 12000000000000000000
BY: JWB	CHK: JWB	APP: JWB
DATE: 08/14/2021	TIME: 10:00 AM	PROJECT: 12000000000000000000
BY: JWB	CHK: JWB	APP: JWB

BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES
 SHEET 8 OF 12
 Texas Department of Transportation
 BC (8) - 14



CONSTRUCTION NOTES
 NOTE: ALL DIMENSIONS AND STATION/OFFSETS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED ON PLANS.
 NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING TREES, FENCES, RETAINING WALLS AND STRUCTURES UNLESS OTHERWISE NOTED.
 NOTE: CONTRACTOR SHALL RELOCATE EXISTING FENCES AS NOTED TO ONE FOOT OF PROPOSED RIGHT OF WAY.
 THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATING AT EACH LOCATION:
 AT&T 1-800-878-8711
 FORT WORTH WATER DEPT.-FIELD OPERATIONS WATER (817) 925-2360
 FORT WORTH WATER DEPT.-FIELD OPERATIONS SANITARY SEWER (817) 223-7438
 FORT WORTH WATER DEPT.-FIELD OPERATIONS LOCATE (817) 392-6296
 FORT WORTH T&W (817) 871-8100
 ATMOS ENERGY (817) 215-4366
 ONCOR GAS & ELECTRIC (817) 215-6214
 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL		
CONTROL POINT #105 SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	CONTROL POINT #109 SET 'X-CUT' N: 7008405.95 E: 2327011.03 ELEV: 690.73	CONTROL POINT #314 SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97

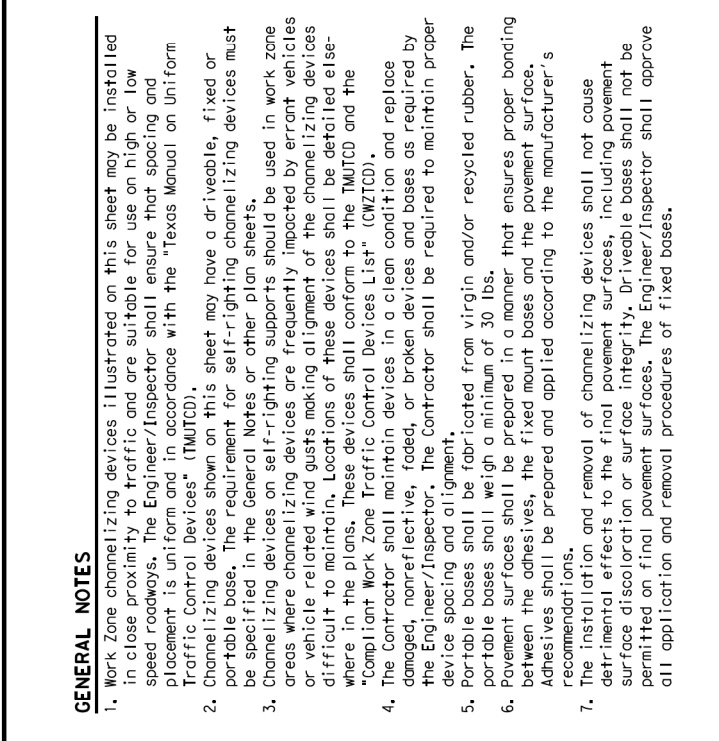
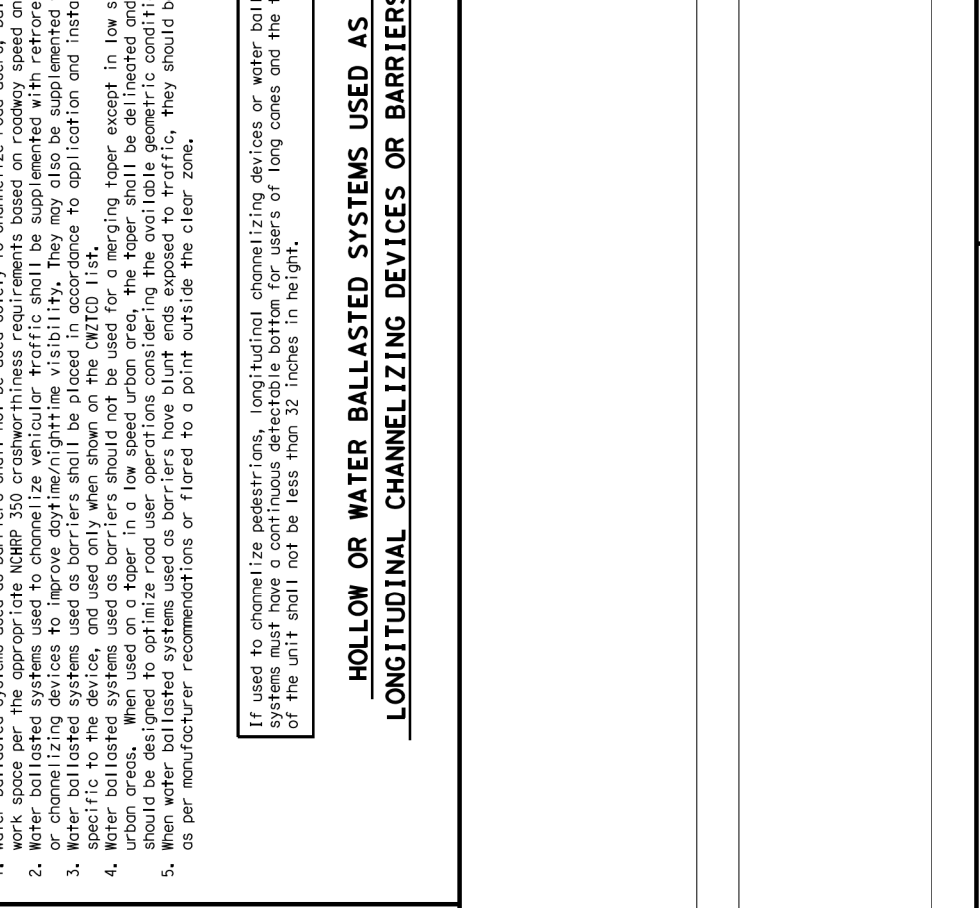
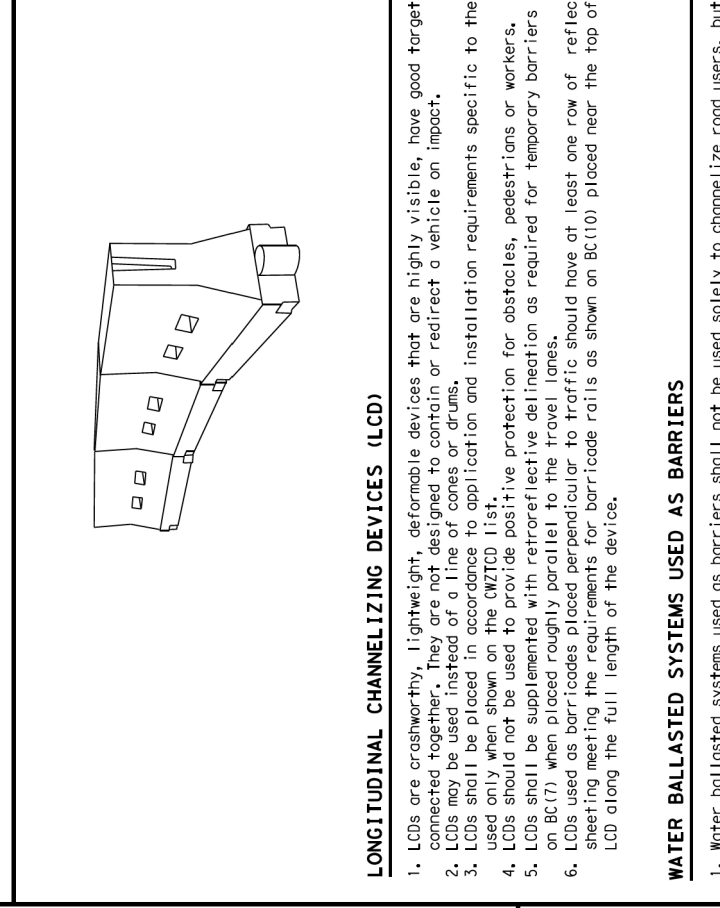
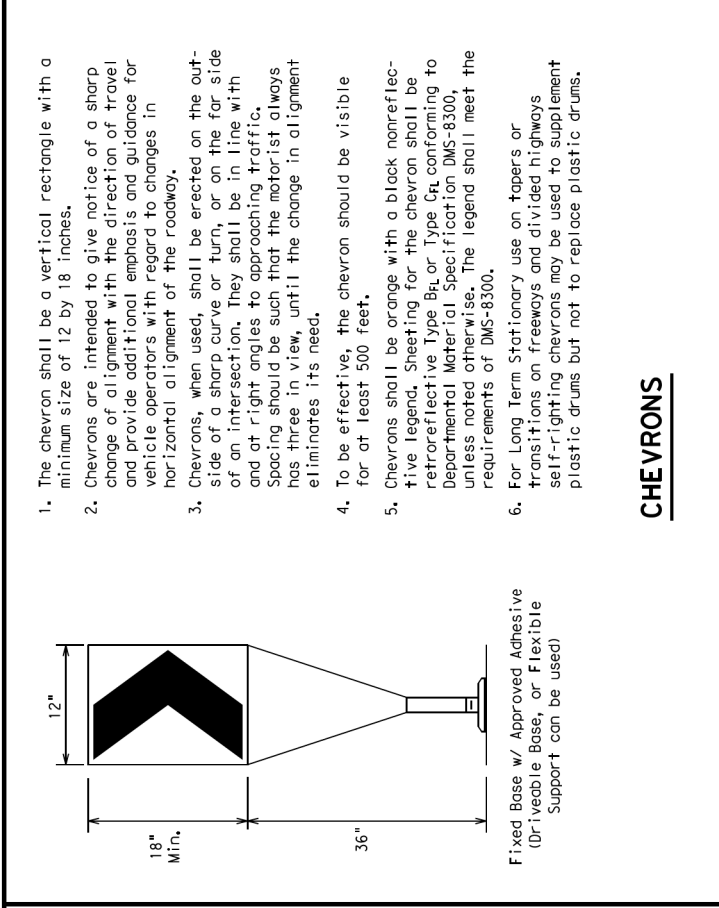
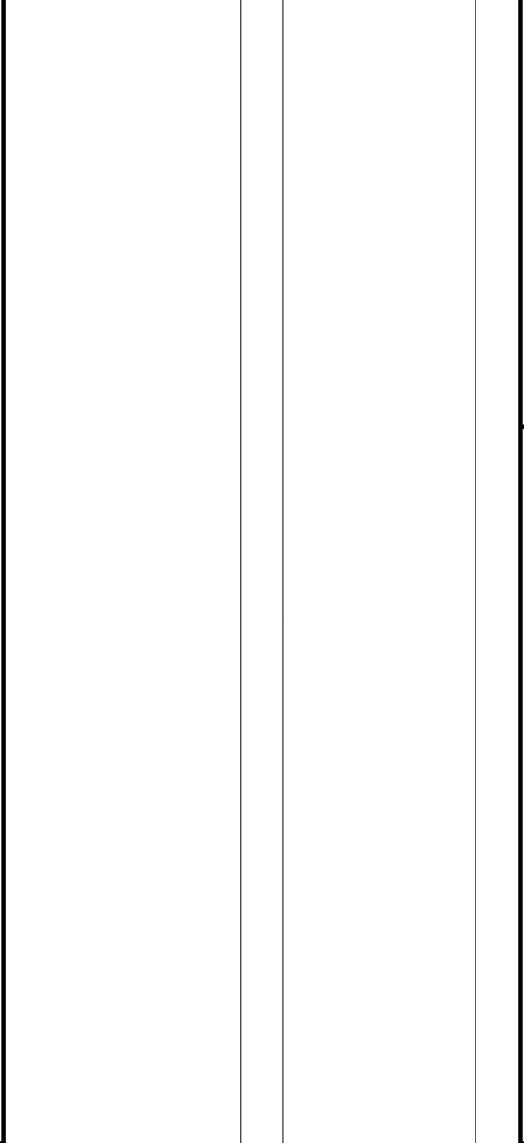
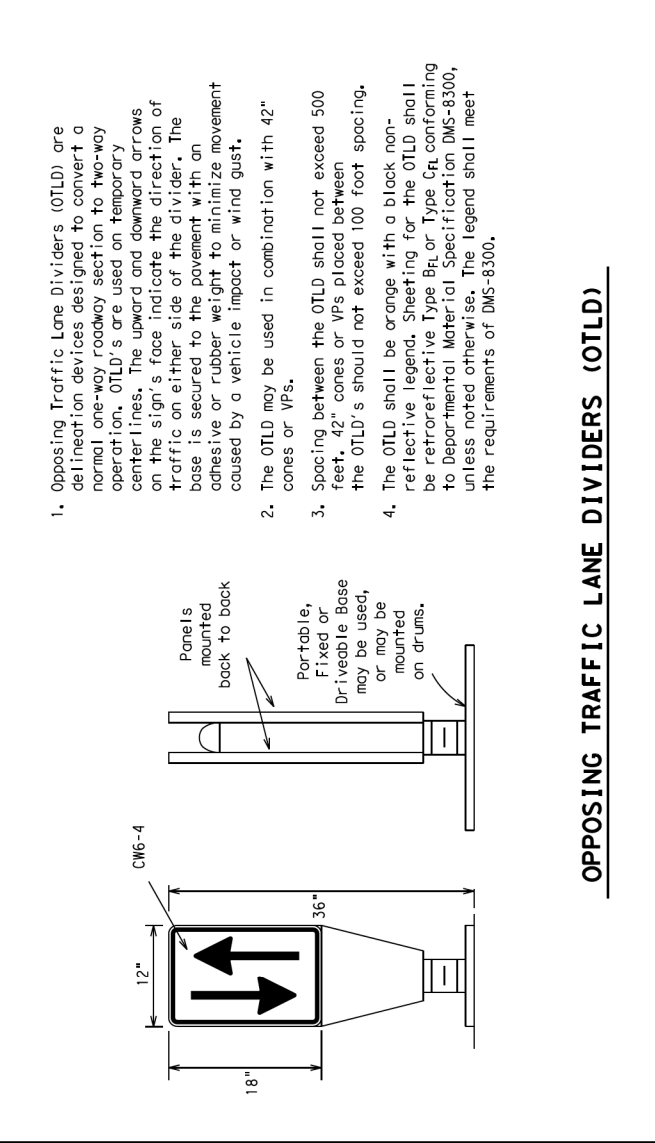
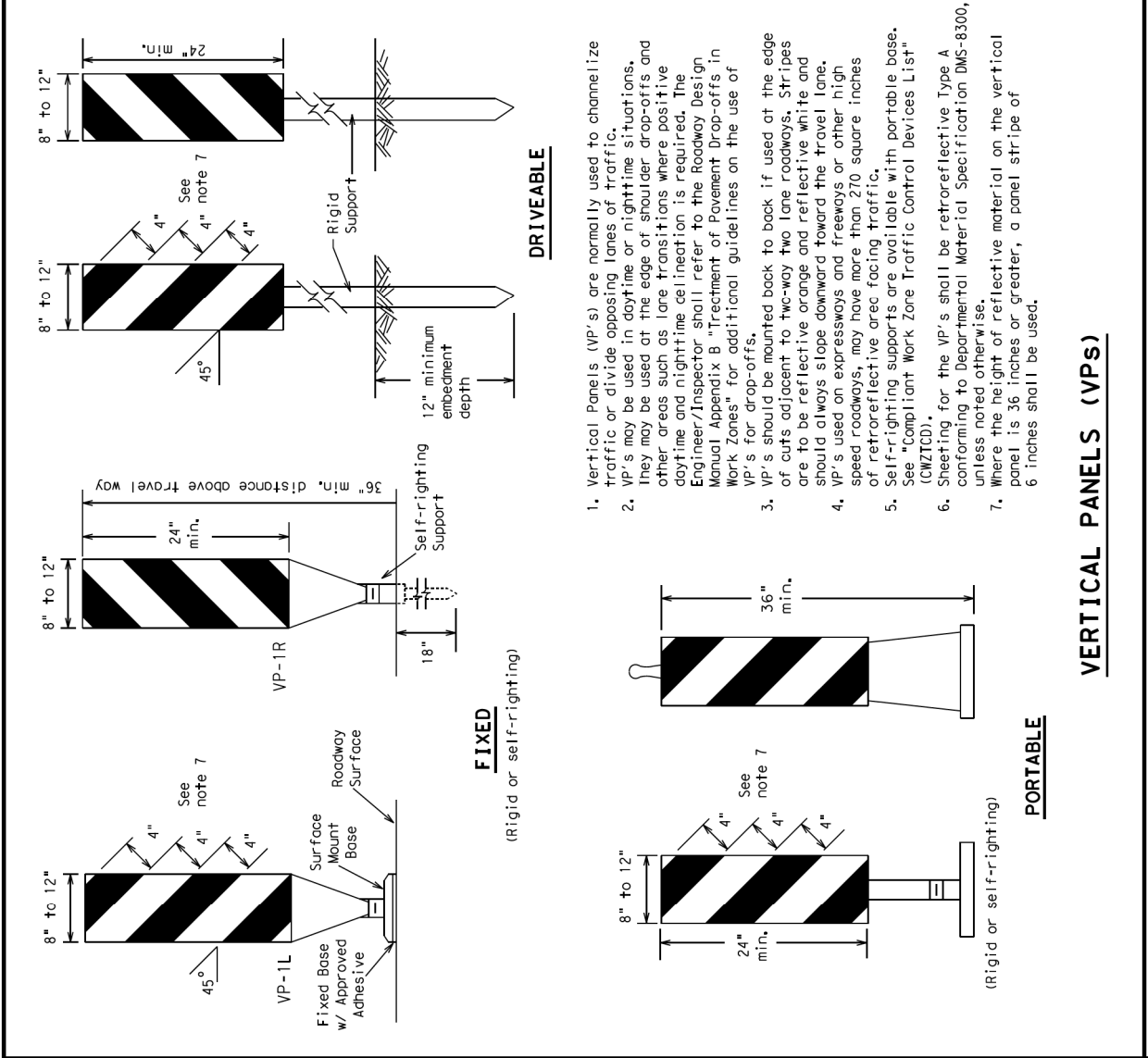
**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES**

**TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

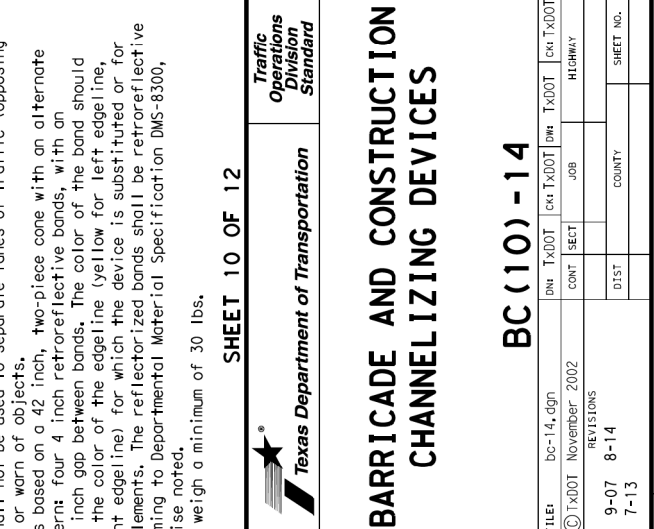
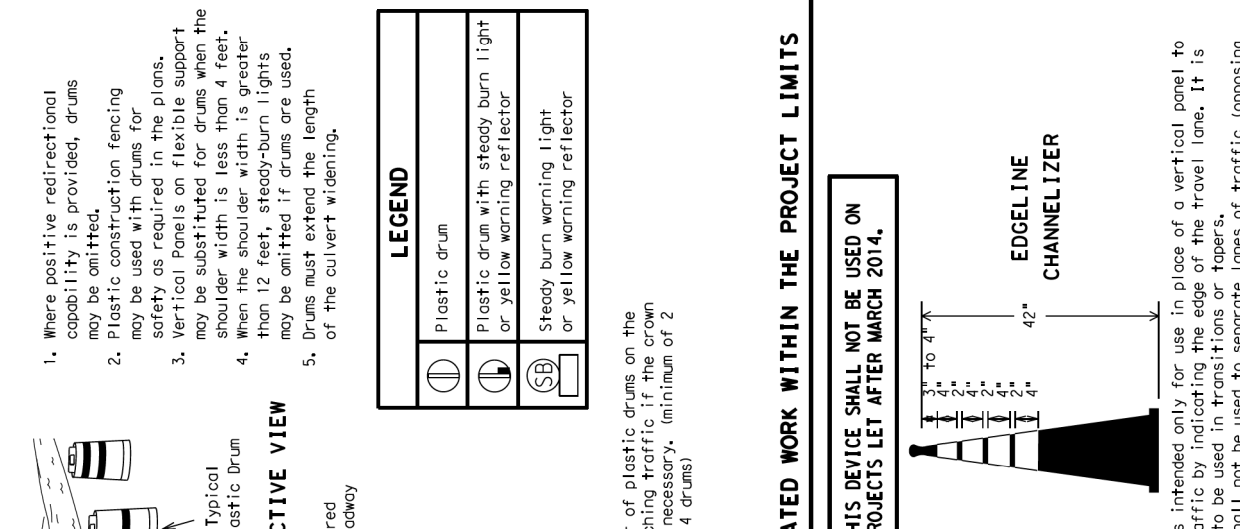
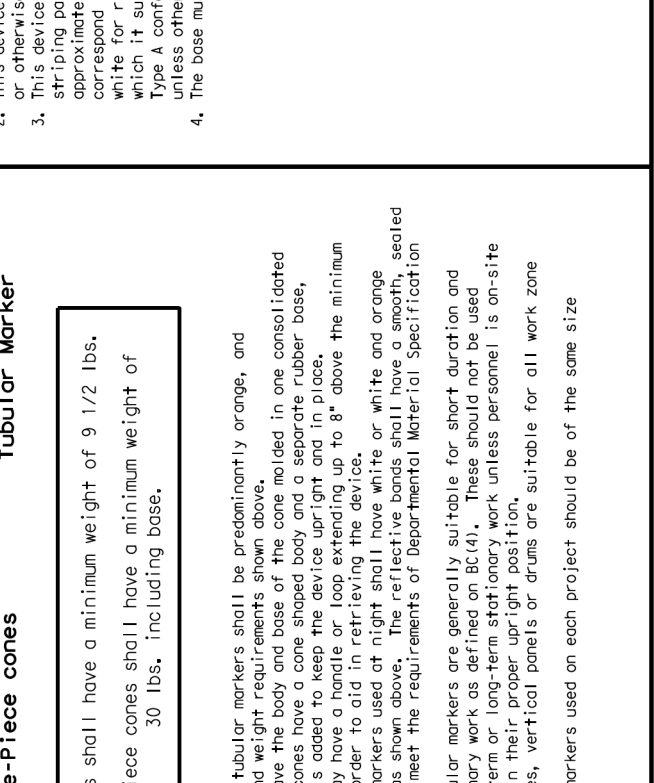
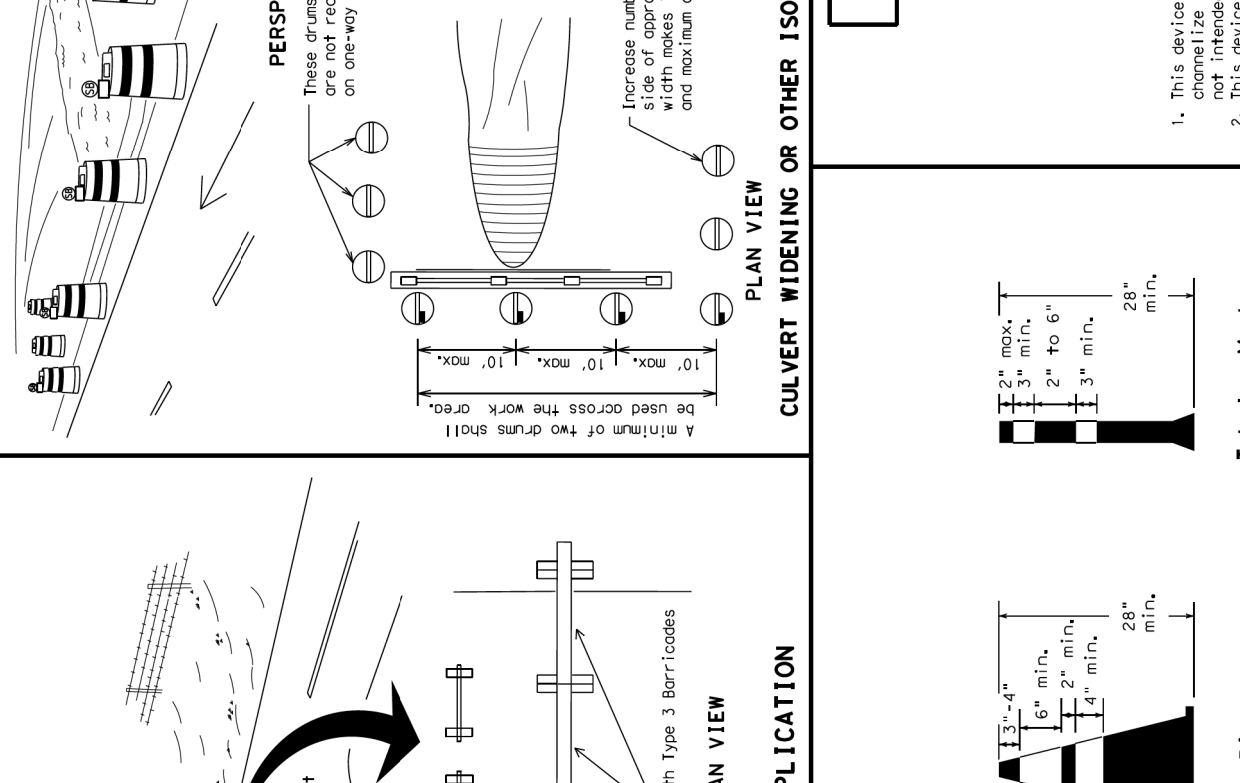
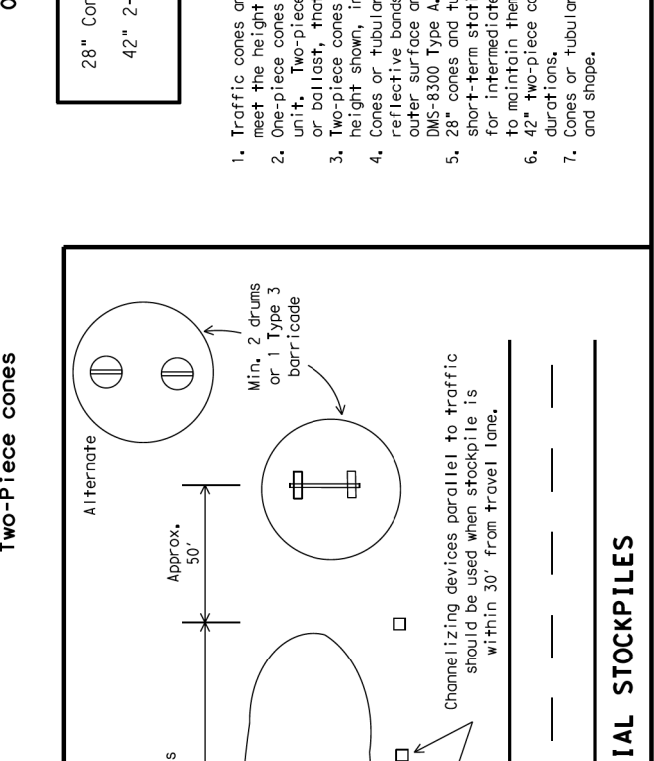
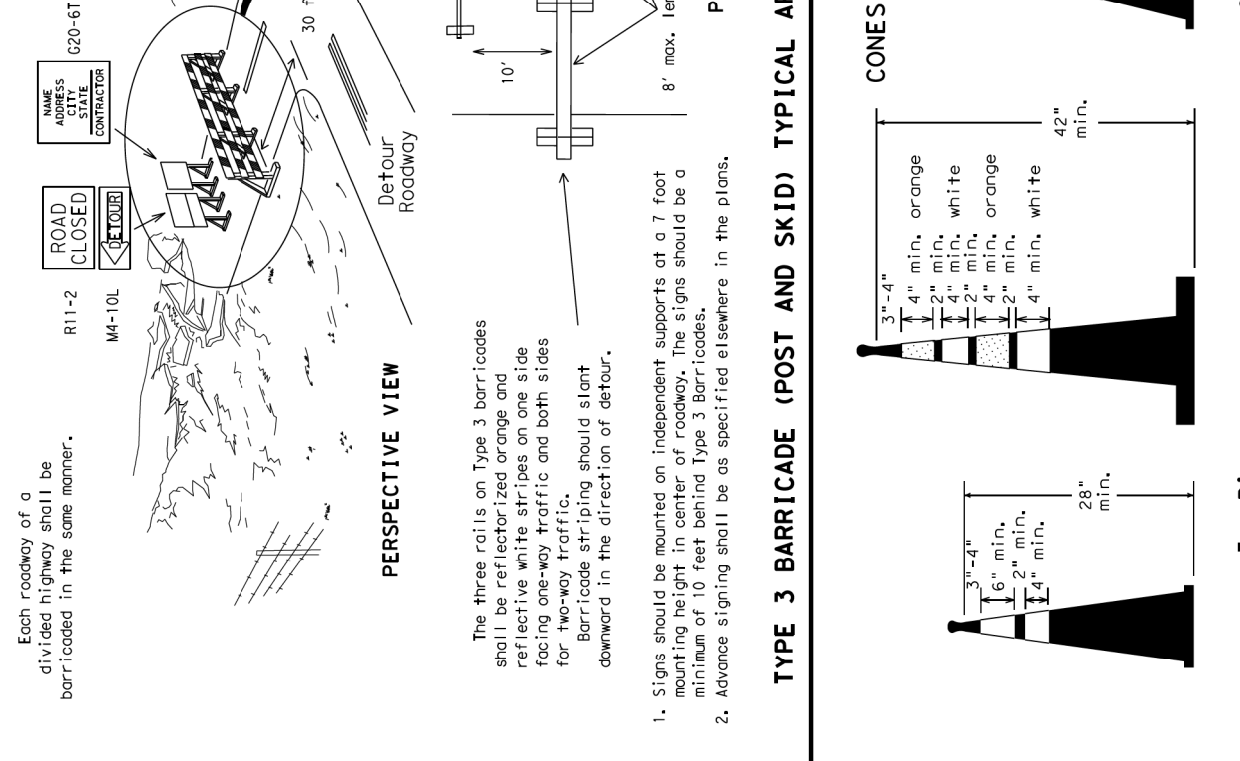
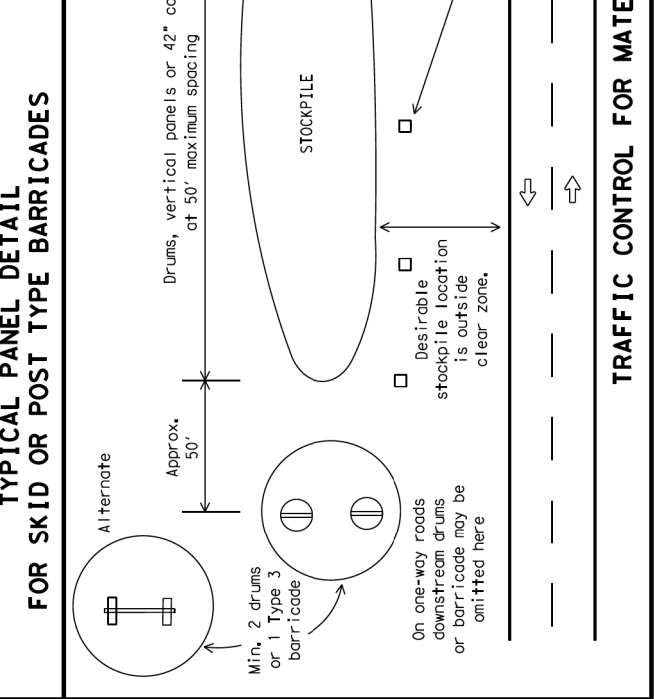
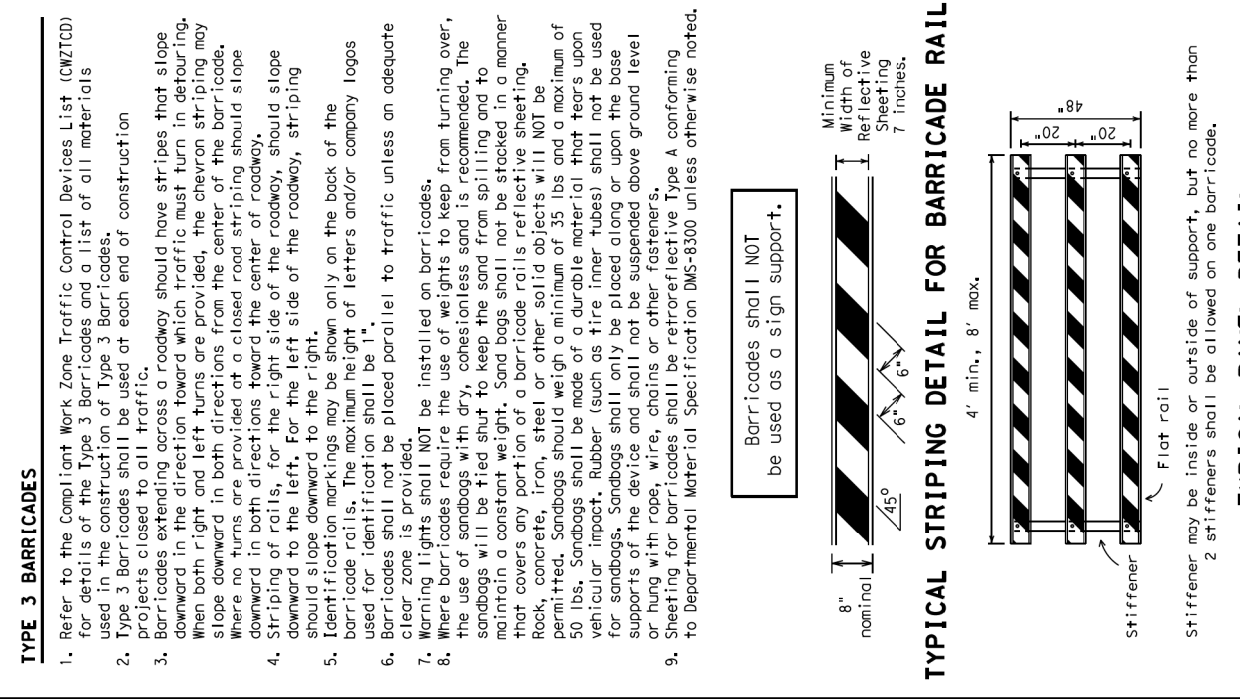
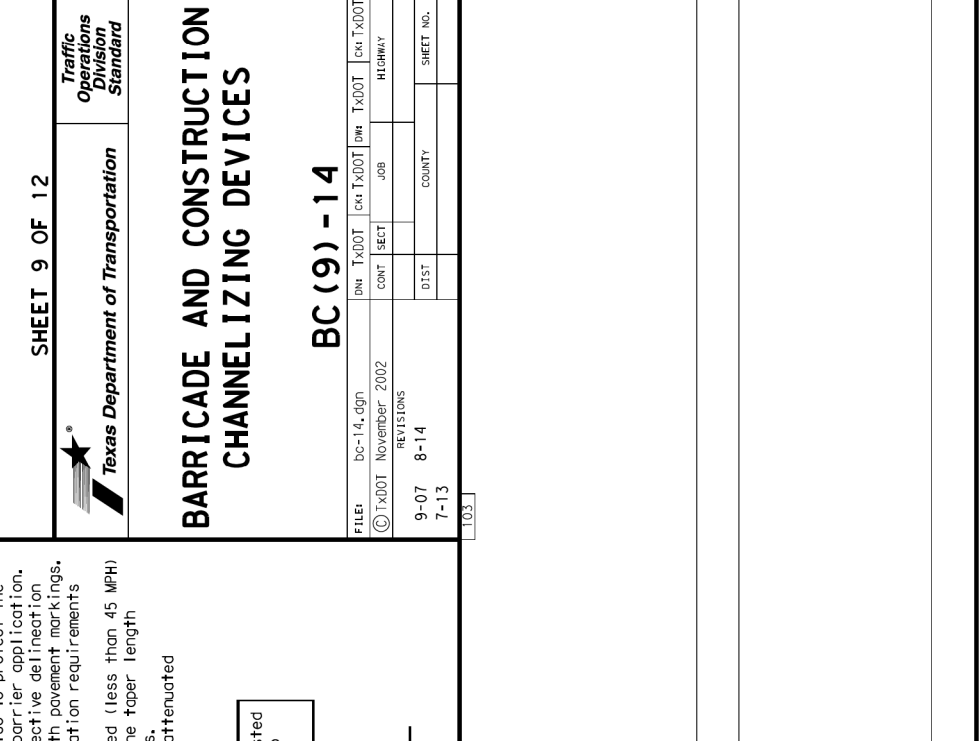
**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 TRAFFIC CONTROL DETAILS
 (SHEET 5 OF 7)**

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 138 OF 189
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DISCLAIMER: The use of this standard is governed by the Texas Engineering Practice Act. The use of this standard is not a warranty or a representation of any kind. The user assumes all liability for the use of this standard. The user of this standard is not to be held liable for any damages or injuries resulting from its use.



Series	Formula	Minimum Top Length	Maximum Top Length	Minimum Channelizing Device Length	Maximum Channelizing Device Length
K	$L = 1.5 \times W$	15'	17.5'	12'	15'
L	$L = 1.5 \times W$	25.5'	28.5'	24.5'	27.5'
M	$L = 1.5 \times W$	45'	49.5'	40.5'	45'
N	$L = 1.5 \times W$	60'	66'	54'	60'
O	$L = 1.5 \times W$	75'	82.5'	70.5'	77.5'
P	$L = 1.5 \times W$	90'	99'	84'	93'
Q	$L = 1.5 \times W$	105'	115.5'	94.5'	105'
R	$L = 1.5 \times W$	120'	132'	108'	120'
S	$L = 1.5 \times W$	135'	148.5'	121.5'	136.5'
T	$L = 1.5 \times W$	150'	166.5'	135'	151.5'
U	$L = 1.5 \times W$	165'	184.5'	148.5'	166.5'



REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		

HALFF

TBPE FIRM #F-312

3803 PARKWOOD BLVD., STE 800
FRISCO, TEXAS 75034-8840
(214) 217-6954

TRAFFIC CONTROL FOR MATERIAL STOCKPILES

Minimum height of 48 inches. Maximum height of 60 inches. Minimum width of 36 inches. Maximum width of 48 inches.

CONSTRUCTION NOTES

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ALL OTHER FACILITIES 1-800-DIG-TESS

CITY OF FORT WORTH, TEXAS

TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

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FROM HORSEMAN ROAD TO HARMON ROAD

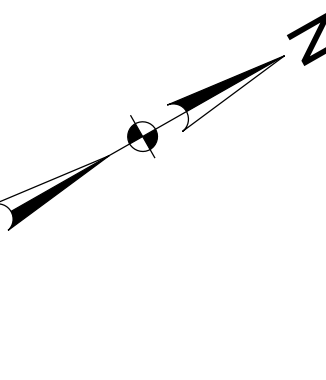
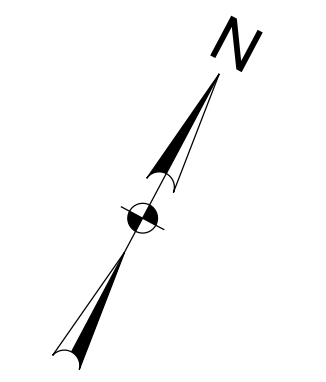
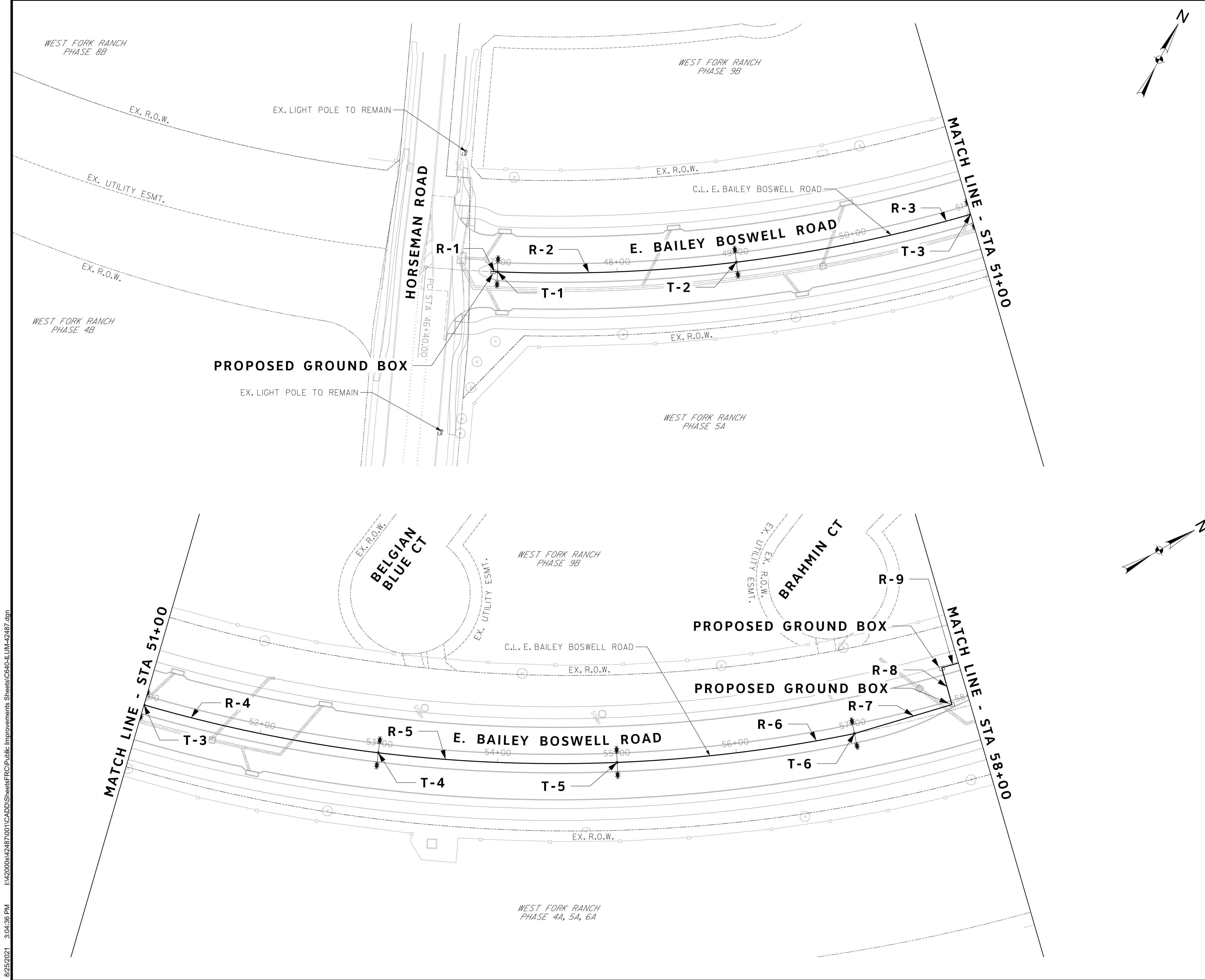
TRAFFIC CONTROL DETAILS

(SHEET 6 OF 7)

DESIGNED: TMW SCALE: DATE: SHEET

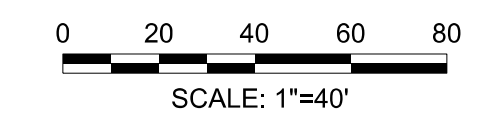
DRAWN: PTS N.T.S. 06/08/2021 139 OF 189

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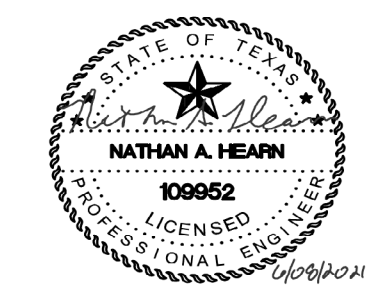
REVISIONS

No.	DESCRIPTION	DATE
1		
2		
3		



NOTES:

1. CONCRETE FOUNDATION FOR STREET LIGHT STRUCTURES WITHIN MEDIANS MUST BE CENTERED WITHIN MEDIAN.
2. STREET LIGHTS TO BE INSTALLED BY A CITY OF FORT WORTH PRE-QUALIFIED LIGHTING CONTRACTOR.
3. CALL 817-999-7923 PRIOR TO ANY STREET LIGHT CONSTRUCTION INCLUDING CONDUITS.
4. CONDUITS SHALL BE SCHEDULE 80 BURIED AT A TOP DEPTH OF 36".
5. STREET LIGHT FOUNDATIONS SHALL BE INSTALLED 5' MINIMUM FROM WATER LINES.



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CONSTRUCTION NOTES

NOTE: ALL DIMENSIONS AND STATION/OFFSETS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED ON PLANS.
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 FORT WORTH WATER DEPT.-FIELD OPERATIONS SANITARY SEWER (817) 223-7438
 FORT WORTH WATER DEPT.-FIELD OPERATIONS LOCATE (817) 392-6296
 FORT WORTH T&PW (817) 871-8100
 ATMOS ENERGY (817) 215-4366
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 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

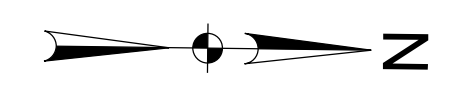
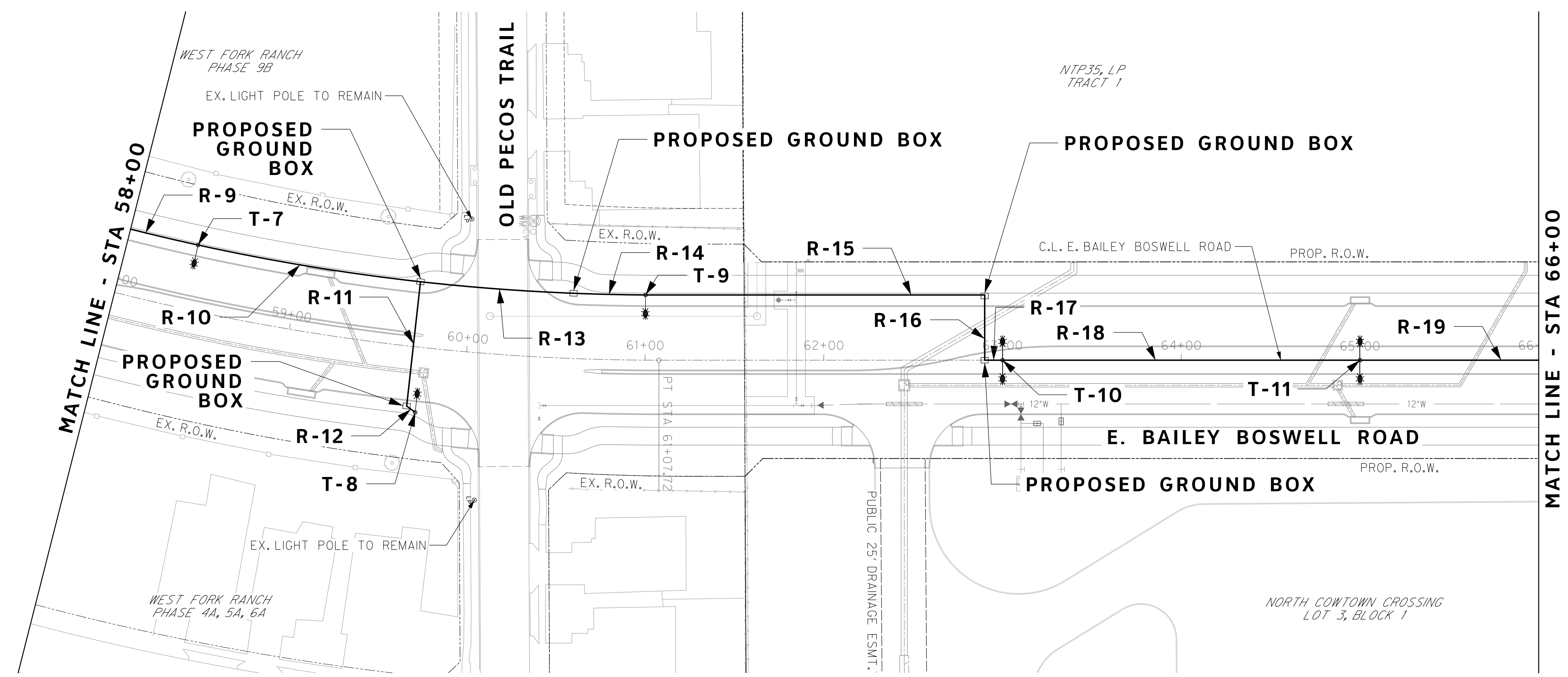
CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD
ROADWAY LIGHTING PLAN
BEGIN TO STA 58+00

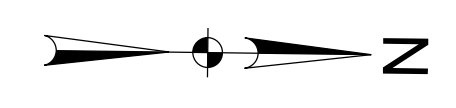
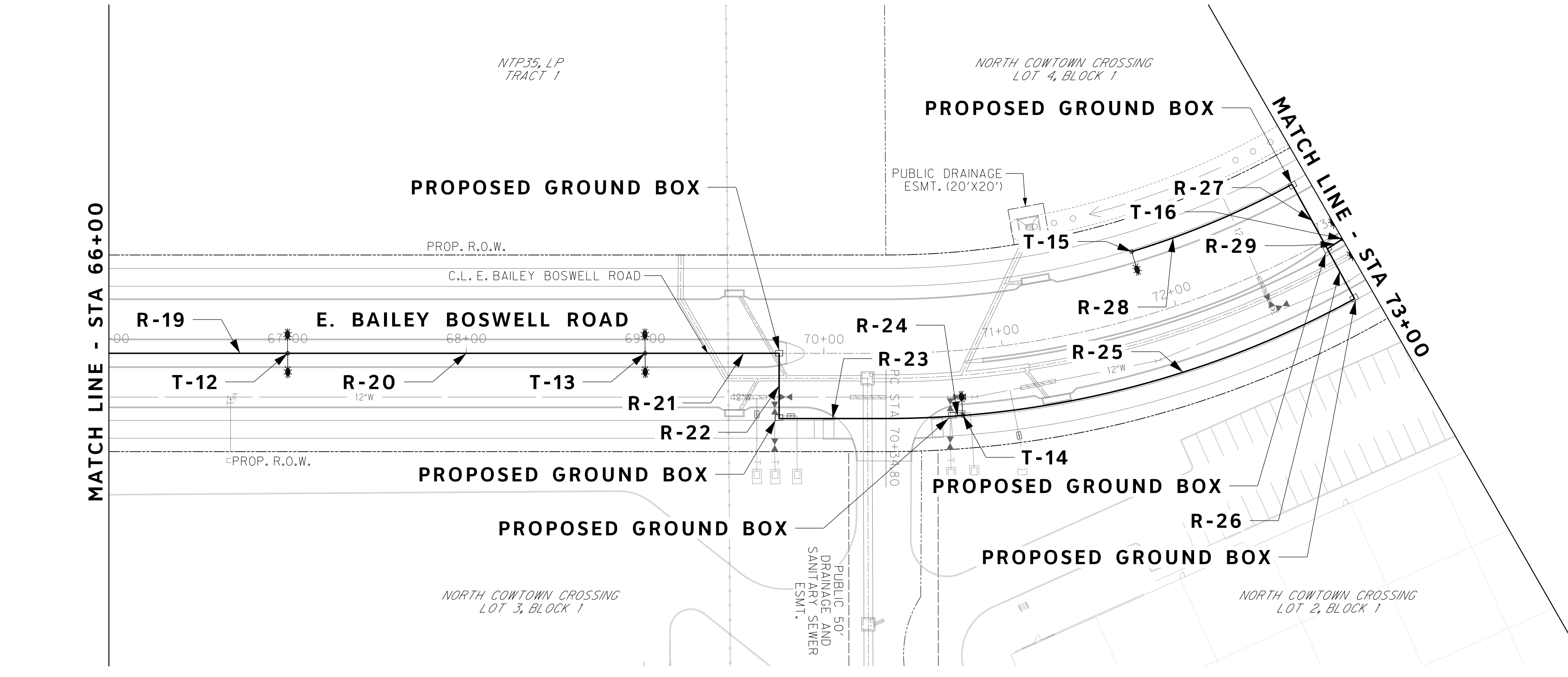
DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 141 OF 189
DRAWN: PTS			

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MATCH LINE - STA 66+00

MATCH LINE - STA 58+00

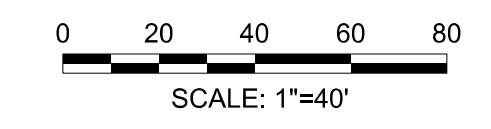


MATCH LINE - STA 66+00

MATCH LINE - STA 73+00

REVISIONS

No.	DESCRIPTION	DATE
1		
2		
3		



NOTES:

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4. CONDUITS SHALL BE SCHEDULE 80 BURIED AT A TOP DEPTH OF 36".
5. STREET LIGHT FOUNDATIONS SHALL BE INSTALLED 5' MINIMUM FROM WATER LINES.



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CONSTRUCTION NOTES

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 - SBC TELEPHONE (817) 338-6819
 - CHARTER COMM. (817) 509-6272 EXT. 3363
 - ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO.
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 MAP NO. XXXX-XXX

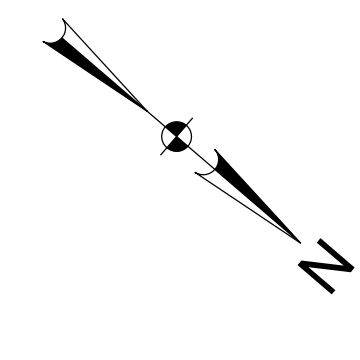
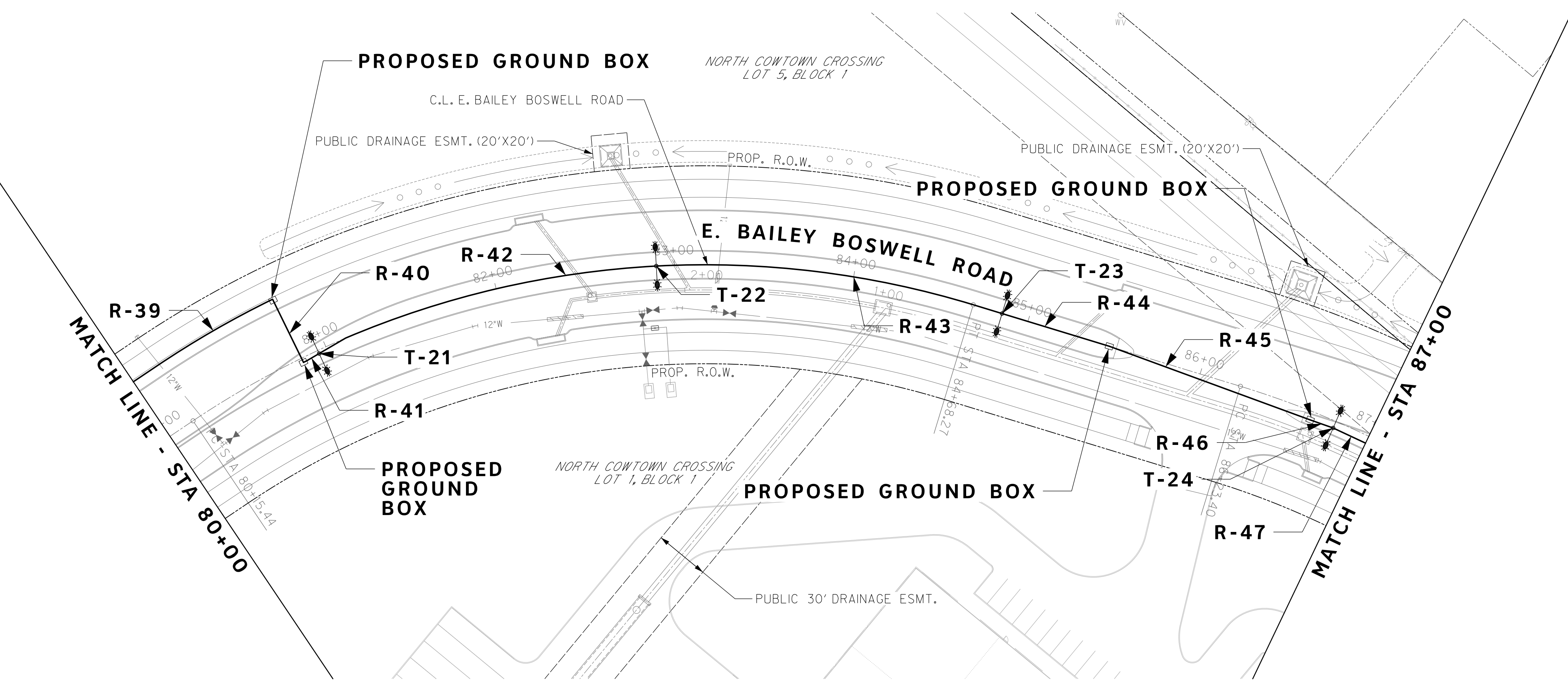
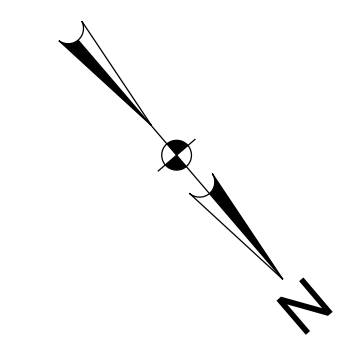
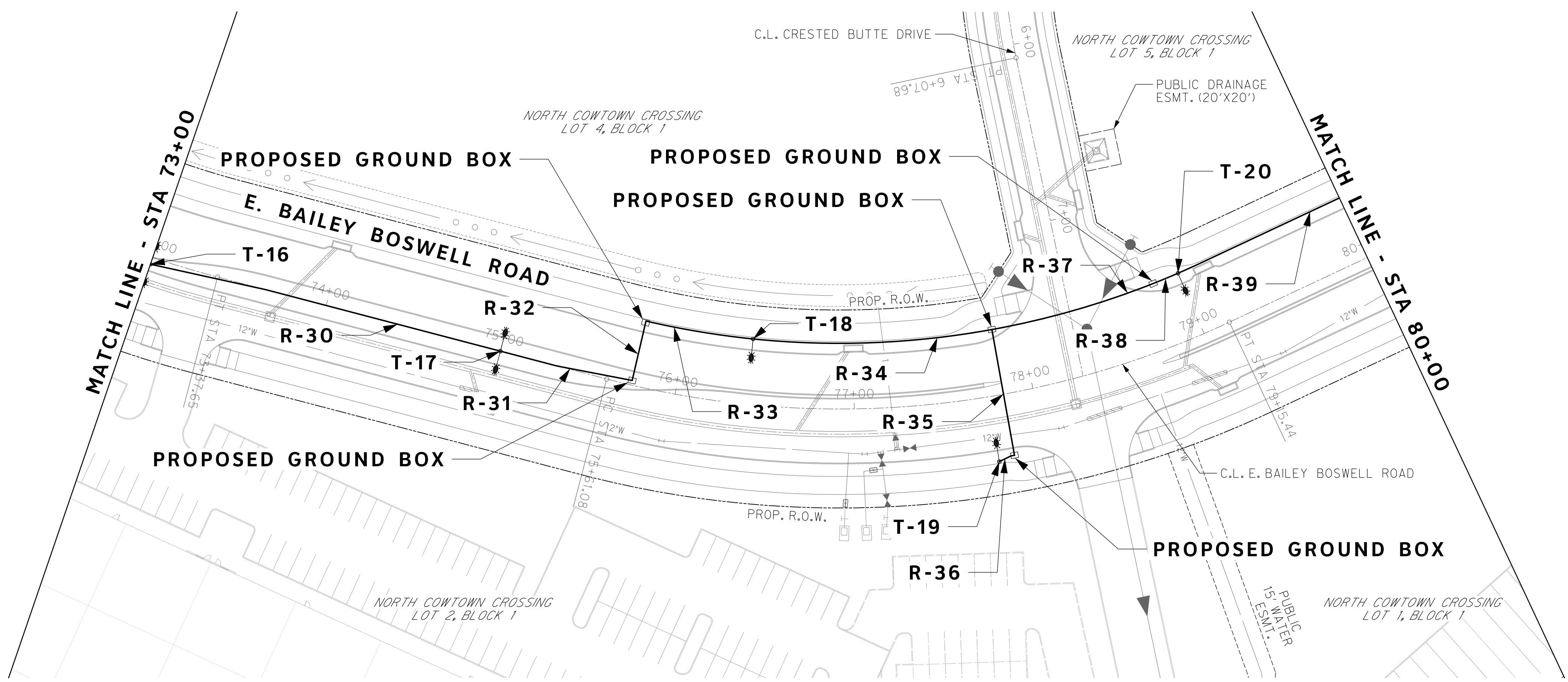
**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT
 SERVICES**

**TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 ROADWAY LIGHTING PLAN
 STA 58+00 TO STA 73+00**

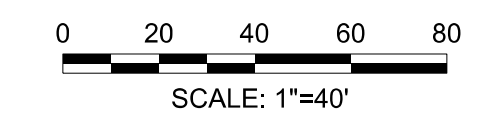
DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 142 OF 189
DRAWN: PTS			

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REVISIONS

No.	DESCRIPTION	DATE
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N: 7006672.75	N: 7010405.95	N: 7008953.42
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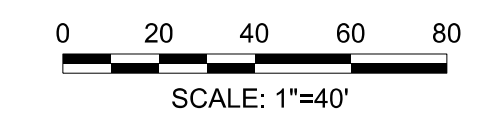
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 ROADWAY LIGHTING PLAN
 STA 73+00 TO STA 87+00**

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 143 OF 189
DRAWN: PTS			

REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



- NOTES:
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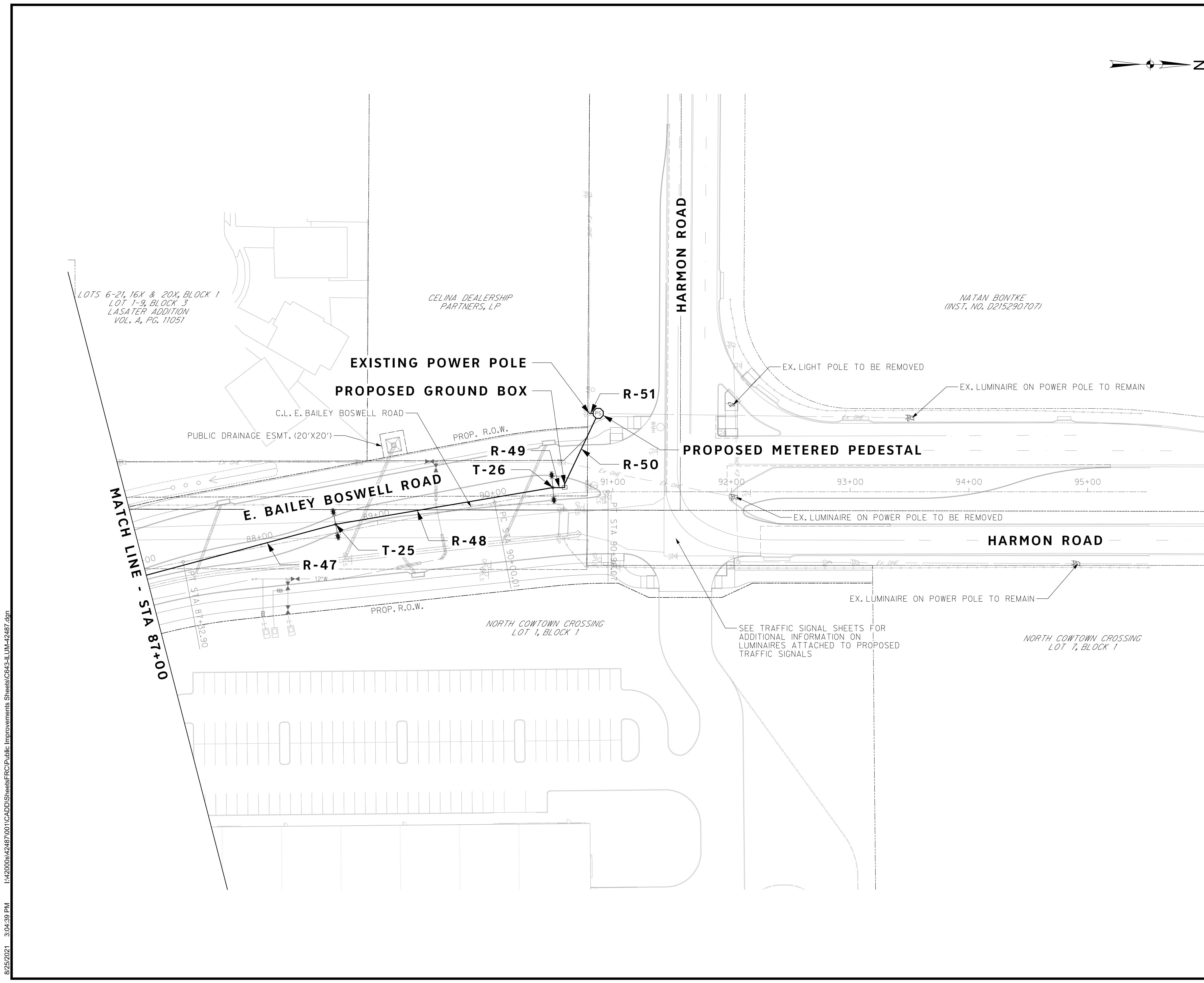
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DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD ROADWAY LIGHTING PLAN STA 87+00 TO END

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 144 OF 189
DRAWN: PTS			



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CONDUIT SUMMARY						
RUN NO.	LENGTH (FT)	CONDUIT SIZE (IN)	PVC TYPE	GROUND #2 THW	CIRCUIT #2 XHHW	OVERHEAD (OH) BORE (B) TRENCH (T) RIGID METAL (RM)
R-1	5	2	SCH 80			T
R-2	200	2	SCH 80	1	4	T
R-3	200	2	SCH 80	1	4	T
R-4	200	2	SCH 80	1	4	T
R-5	200	2	SCH 80	1	4	T
R-6	200	2	SCH 80	1	4	T
R-7	85	2	SCH 80	1	4	T
R-8	32	2	SCH 80	1	4	T
R-9	54	2	SCH 80	1	4	T
R-10	127	2	SCH 80	1	4	T
R-11	70	2	SCH 80	1	2	T
R-12	6	2	SCH 80	1	2	T
R-13	86	2	SCH 80	1	4	T
R-14	41	2	SCH 80	1	4	T
R-15	190	2	SCH 80	1	4	T
R-16	37	2	SCH 80	1	4	T
R-17	10	2	SCH 80	1	4	T
R-18	200	2	SCH 80	1	4	T
R-19	200	2	SCH 80	1	4	T
R-20	200	2	SCH 80	1	4	T
R-21	75	2	SCH 80	1	4	T
R-22	37	2	SCH 80	1	4	T
R-23	97	2	SCH 80	1	4	T
R-24	6	2	SCH 80	1	4	T
R-25	231	2	SCH 80	1	4	T
R-26	32	2	SCH 80	1	4	T
R-27	42	2	SCH 80	1	2	T
R-28	98	2	SCH 80	1	2	T
R-29	11	2	SCH 80	1	4	T
R-30	200	2	SCH 80	1	4	T
R-31	75	2	SCH 80	1	4	T
R-32	34	2	SCH 80	1	4	T
R-33	61	2	SCH 80	1	4	T
R-34	134	2	SCH 80	1	4	T
R-35	71	2	SCH 80	1	2	T
R-36	10	2	SCH 80	1	2	T
R-37	94	2	SCH 80	1	4	T
R-38	15	2	SCH 80	1	4	T
R-39	189	2	SCH 80	1	4	T
R-40	39	2	SCH 80	1	4	T
R-41	10	2	SCH 80	1	4	T
R-42	195	2	SCH 80	1	4	T
R-43	195	2	SCH 80	1	4	T
R-44	63	2	SCH 80	1	4	T
R-45	119	2	SCH 80	1	4	T
R-46	14	2	SCH 80	1	4	T
R-47	185	2	SCH 80	1	4	T
R-48	185	2	SCH 80	1	4	T
R-49	10	2	SCH 80	1	4	T
R-50	70	2	SCH 80	1	4	T
R-51	10	2	SCH 80		3	T
TOTAL	4950			4935	19176	

SCHEDULE OF ILLUMINATION ROADWAY ASSEMBLIES															
POLE NO.	CL STATION	CL REFERENCE	OFFSET (FT)	FOUNDATION TYPE	DRILL SHAFT DIA / DRILL SHAFT LENGTH	POLE TYPE	POLE HEIGHT (FT)	ARM TYPE	ARM MOUNT	ARM HEIGHT (FT)	LUMINAIRE TYPE	LUMINAIRE MOUNT HEIGHT (FT)	LUMINAIRE WATTAGE	CIRCUIT	
T-1	47+00	E. BAILEY BOSWELL ROAD	0.00'	3	24" / 8'	18	33.5	33A	TWIN	5	R2	38.5	133 W	A	
T-2	49+00	E. BAILEY BOSWELL ROAD	0.00'	3	24" / 8'	18	33.5	33A	TWIN	5	R2	38.5	133 W	B	
T-3	51+00	E. BAILEY BOSWELL ROAD	0.00'	3	24" / 8'	18	33.5	33A	TWIN	5	R2	38.5	133 W	A	
T-4	53+00	E. BAILEY BOSWELL ROAD	0.00'	3	24" / 8'	18	33.5	33A	TWIN	5	R2	38.5	133 W	B	
T-5	55+00	E. BAILEY BOSWELL ROAD	0.00'	3	24" / 8'	18	33.5	33A	TWIN	5	R2	38.5	133 W	A	
T-6	57+00	E. BAILEY BOSWELL ROAD	0.00'	3	24" / 8'	18	33.5	33A	TWIN	5	R2	38.5	133 W	B	
T-7	58+40	E. BAILEY BOSWELL ROAD	36.50' LT	3	24" / 8'	18	33.5	33A	SINGLE	5	R2	38.5	133 W	A	
T-8	59+75	E. BAILEY BOSWELL ROAD	36.50' RT	3	24" / 8'	18	33.5	33A	SINGLE	5	R2	38.5	133 W	B	
T-9	61+00	E. BAILEY BOSWELL ROAD	36.50' LT	3	24" / 8'	18	33.5	33A	SINGLE	5	R2	38.5	133 W	A	
T-10	63+00	E. BAILEY BOSWELL ROAD	0.00'	3	24" / 8'	18	33.5	33A	TWIN	5	R2	38.5	133 W	B	
T-11	65+00	E. BAILEY BOSWELL ROAD	0.00'	3	24" / 8'	18	33.5	33A	TWIN	5	R2	38.5	133 W	A	
T-12	67+00	E. BAILEY BOSWELL ROAD	0.00'	3	24" / 8'	18	33.5	33A	TWIN	5	R2	38.5	133 W	B	
T-13	69+00	E. BAILEY BOSWELL ROAD	0.00'	3	24" / 8'	18	33.5	33A	TWIN	5	R2	38.5	133 W	A	
T-14	70+75	E. BAILEY BOSWELL ROAD	36.50' RT	3	24" / 8'	18	33.5	33A	SINGLE	5	R2	38.5	133 W	B	
T-15	71+85	E. BAILEY BOSWELL ROAD	36.50' LT	3	24" / 8'	18	33.5	33A	SINGLE	5	R2	38.5	133 W	A	
T-16	73+00	E. BAILEY BOSWELL ROAD	3.95' RT	3	24" / 8'	18	33.5	33A	TWIN	5	R2	38.5	133 W	B	
T-17	75+00	E. BAILEY BOSWELL ROAD	0.00'	3	24" / 8'	18	33.5	33A	TWIN	5	R2	38.5	133 W	A	
T-18	76+40	E. BAILEY BOSWELL ROAD	36.50' LT	3	24" / 8'	18	33.5	33A	SINGLE	5	R2	38.5	133 W	B	
T-19	77+75	E. BAILEY BOSWELL ROAD	36.50' RT	3	24" / 8'	18	33.5	33A	SINGLE	5	R2	38.5	133 W	A	
T-20	79+00	E. BAILEY BOSWELL ROAD	36.50' LT	3	24" / 8'	18	33.5	33A	SINGLE	5	R2	38.5	133 W	B	
T-21	80+95	E. BAILEY BOSWELL ROAD	1.87' RT	3	24" / 8'	18	33.5	33A	TWIN	5	R2	38.5	133 W	A	
T-22	82+90	E. BAILEY BOSWELL ROAD	0.00'	3	24" / 8'	18	33.5	33A	TWIN	5	R2	38.5	133 W	B	
T-23	84+85	E. BAILEY BOSWELL ROAD	0.00'	3	24" / 8'	18	33.5	33A	TWIN	5	R2	38.5	133 W	A	
T-24	86+80	E. BAILEY BOSWELL ROAD	4.00' RT	3	24" / 8'	18	33.5	33A	TWIN	5	R2	38.5	133 W	B	
T-25	88+65	E. BAILEY BOSWELL ROAD	7.00' LT	3	24" / 8'	18	33.5	33A	TWIN	5	R2	38.5	133 W	A	
T-26	90+50	E. BAILEY BOSWELL ROAD	5.58' LT	3	24" / 8'	18	33.5	33A	TWIN	5	R2	38.5	133 W	B	

POLE QUANTITY	26 EA
FOUNDATION QUANTITY	26 EA
FOUNDATION TYPE	3
ARM QUANTITY	44 EA
ARM TYPE	33A
LUMINAIRE HEAD QUANTITY	44 EA
LUMINAIRE TYPE - R3	ATB2 40BLEDE10 MVOLT R3 3K MP NL P7 RFD210914
GROUND BOX QUANTITY	24 EA
240-480V PEDESTAL SERVICE	1 EA

REVISIONS

No.	DESCRIPTION	DATE
1		
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3		



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 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105 SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	CONTROL POINT #109 SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	CONTROL POINT #314 SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97
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DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
ROADWAY LIGHTING TABLES

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 145 OF 189
DRAWN: PTS			

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RUN NO.	CURRENT THIS RUN	ADDTN'L BRANCH CURRENT IF ANY	DISTANCE TO NEXT RUN	WIRE SIZE A.W.G.	WIRE RESISTANCE	CURRENT RUNNING TOTAL	VOLTAGE DROP	RUNNING TOTAL VOLTAGE DROP
	[AMPS]							
RUN A								
R-2	1.2		205	2	0.000324	1.2	0.08	0.08
R-3			205	2	0.000324	1.2	0.08	0.16
R-4	1.2		205	2	0.000324	2.4	0.16	0.32
R-5			205	2	0.000324	2.4	0.16	0.48
R-6	1.2		205	2	0.000324	3.6	0.24	0.72
R-7			90	2	0.000324	3.6	0.10	0.82
R-8			37	2	0.000324	3.6	0.04	0.87
R-9			59	2	0.000324	3.6	0.07	0.93
R-10	0.6		132	2	0.000324	4.2	0.18	1.11
R-13			91	2	0.000324	4.2	0.12	1.24
R-14			46	2	0.000324	4.2	0.06	1.30
R-15	0.6		195	2	0.000324	4.8	0.30	1.60
R-16			42	2	0.000324	4.2	0.06	1.36
R-17			15	2	0.000324	4.2	0.02	1.38
R-18			205	2	0.000324	4.2	0.28	1.66
R-19	1.2		205	2	0.000324	5.4	0.36	2.02
R-20			205	2	0.000324	5.4	0.36	2.37
R-21	1.2		80	2	0.000324	6.6	0.17	2.55
R-22			42	2	0.000324	6.6	0.09	2.64
R-23			102	2	0.000324	6.6	0.22	2.85
R-24			11	2	0.000324	6.6	0.02	2.88
R-25			236	2	0.000324	6.6	0.50	3.38
R-26			37	2	0.000324	6.6	0.08	3.46
R-29		0.6	16	2	0.000324	7.2	0.04	3.50
R-30			205	2	0.000324	7.2	0.48	3.98
R-31	1.2		80	2	0.000324	8.4	0.22	4.19
R-32			39	2	0.000324	8.4	0.11	4.30
R-33			66	2	0.000324	8.4	0.18	4.48
R-34			139	2	0.000324	8.4	0.38	4.86
R-37		0.6	76	2	0.000324	9	0.22	5.08
R-38			20	2	0.000324	9	0.06	5.14
R-39			194	2	0.000324	9	0.57	5.70
R-40			44	2	0.000324	9	0.13	5.83
R-41			15	2	0.000324	9	0.04	5.88
R-42	1.2		200	2	0.000324	10.2	0.66	6.54
R-43			200	2	0.000324	10.2	0.66	7.20
R-44	1.2		68	2	0.000324	11.4	0.25	7.45
R-45			124	2	0.000324	11.4	0.46	7.91
R-46			19	2	0.000324	11.4	0.07	7.98
R-47			190	2	0.000324	11.4	0.70	8.68
R-48	1.2		190	2	0.000324	12.6	0.78	9.45
R-49			15	2	0.000324	12.6	0.06	9.52
R-50			75	2	0.000324	12.6	0.31	9.82

RUN NO.	CURRENT THIS RUN	ADDTN'L BRANCH CURRENT IF ANY	DISTANCE TO NEXT RUN	WIRE SIZE A.W.G.	WIRE RESISTANCE	CURRENT RUNNING TOTAL	VOLTAGE DROP	RUNNING TOTAL VOLTAGE DROP
	[AMPS]							
RUN B								
R-3	1.2		205	4	0.000518	1.2	0.13	0.13
R-4			205	4	0.000518	1.2	0.13	0.25
R-5	1.2		205	4	0.000518	2.4	0.25	0.51
R-6			205	4	0.000518	2.4	0.25	0.76
R-7	1.2		90	4	0.000518	3.6	0.17	0.93
R-8			37	4	0.000518	3.6	0.07	1.00
R-9			59	4	0.000518	3.6	0.11	1.11
R-10			132	4	0.000518	3.6	0.25	1.36
R-13		0.6	91	4	0.000518	4.2	0.20	1.56
R-14			46	4	0.000518	4.2	0.10	1.66
R-15			195	4	0.000518	4.2	0.42	2.08
R-16			42	4	0.000518	4.2	0.09	2.17
R-17			15	4	0.000518	4.2	0.03	2.20
R-18	1.2		205	4	0.000518	5.4	0.57	2.78
R-19			205	4	0.000518	5.4	0.57	3.35
R-20	1.2		205	4	0.000518	6.6	0.70	4.05
R-21			80	4	0.000518	6.6	0.27	4.33
R-22			42	4	0.000518	6.6	0.14	4.47
R-23			102	4	0.000518	6.6	0.35	4.82
R-24			11	4	0.000518	6.6	0.04	4.86
R-25		0.6	236	4	0.000518	7.2	0.88	5.74
R-26			37	4	0.000518	7.2	0.14	5.87
R-29			16	4	0.000518	7.2	0.06	5.93
R-30	1.2		205		0.000204	8.4	0.35	6.28
R-31			80		0.000204	8.4	0.14	6.42
R-32			39		0.000204	8.4	0.07	6.49
R-33			66		0.000204	8.4	0.11	6.60
R-34	0.6		139		0.000204	9	0.26	6.86
R-37			76		0.000204	9	0.14	7.00
R-38			20		0.000204	9	0.04	7.03
R-39	0.6		194		0.000204	9.6	0.38	7.41
R-40			44		0.000204	9.6	0.09	7.50
R-41			15		0.000204	9.6	0.03	7.53
R-42			200		0.000204	9.6	0.39	7.92
R-43	1.2		200		0.000204	10.8	0.44	8.36
R-44			68		0.000204	10.8	0.15	8.51
R-45			124		0.000204	10.8	0.27	8.78
R-46			19		0.000204	10.8	0.04	8.83
R-47	1.2		190		0.000204	12	0.47	9.29
R-48			190		0.000204	12	0.47	9.76
R-49	1.2		15		0.000204	13.2	0.04	9.80
R-50			75		0.000204	13.2	0.20	10.00

Elec. Service No.	Sheet No.	Electrical Service Description	Main Ckt. Bkr. Pole/Amp	Two-Pole Contactor Amps	Circuit No.	Branch Ckt. Bkr. Pole/Amps	Branch Circuit Amps	KVA Load
PS	120	REFER TO SERVICE DETAIL 240-480V PEDESTAL SERVICE	2P/100	100	A B SPARE SPARE	1P/30 1P/30 1P/20 1P/20	12.6 13.2	6.2

REVISIONS

No.	DESCRIPTION	DATE
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 ALL OTHER FACILITIES 1-800-DIG-TESS

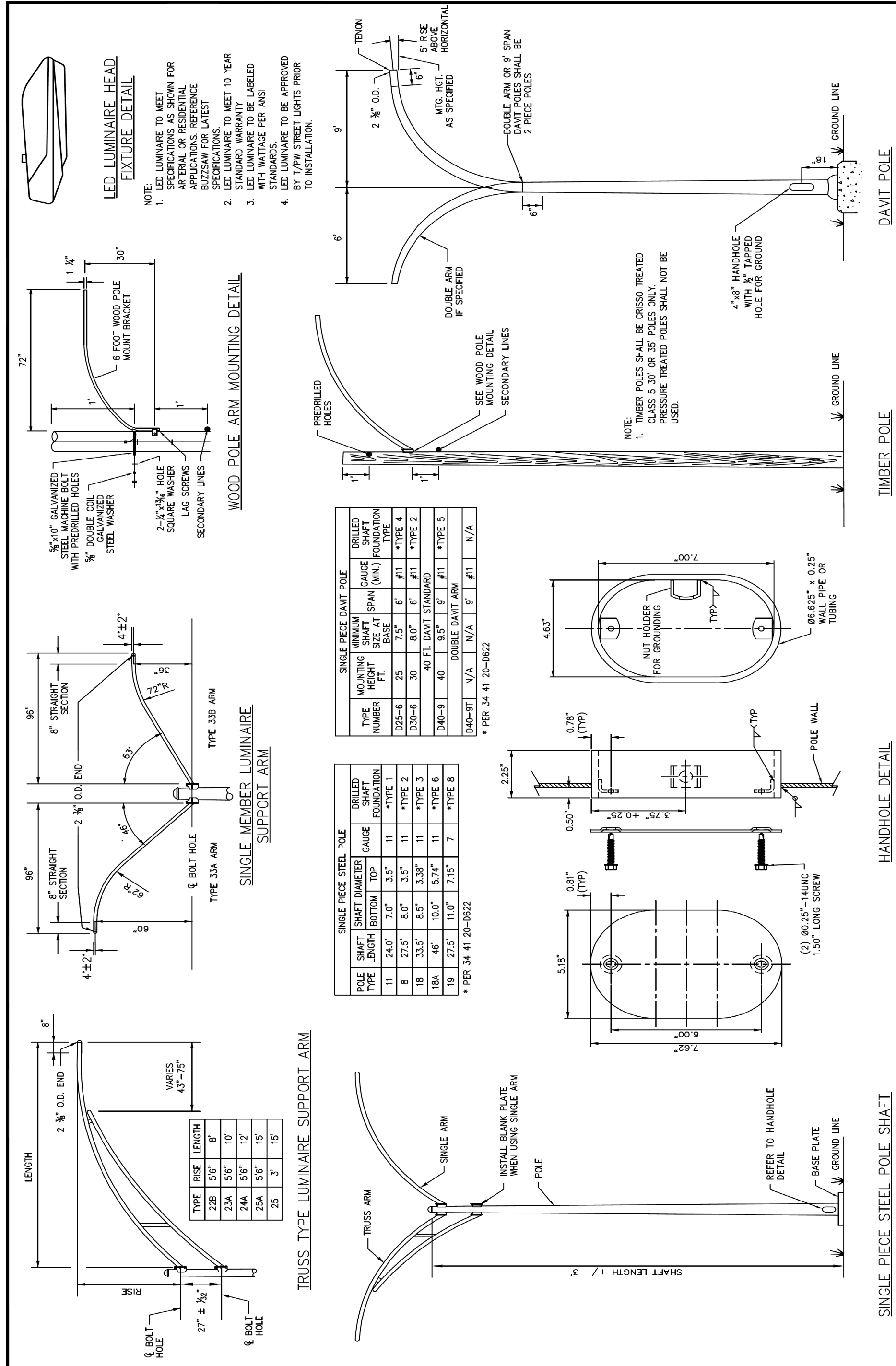
HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO.
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
 EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
ROADWAY LIGHTING TABLES

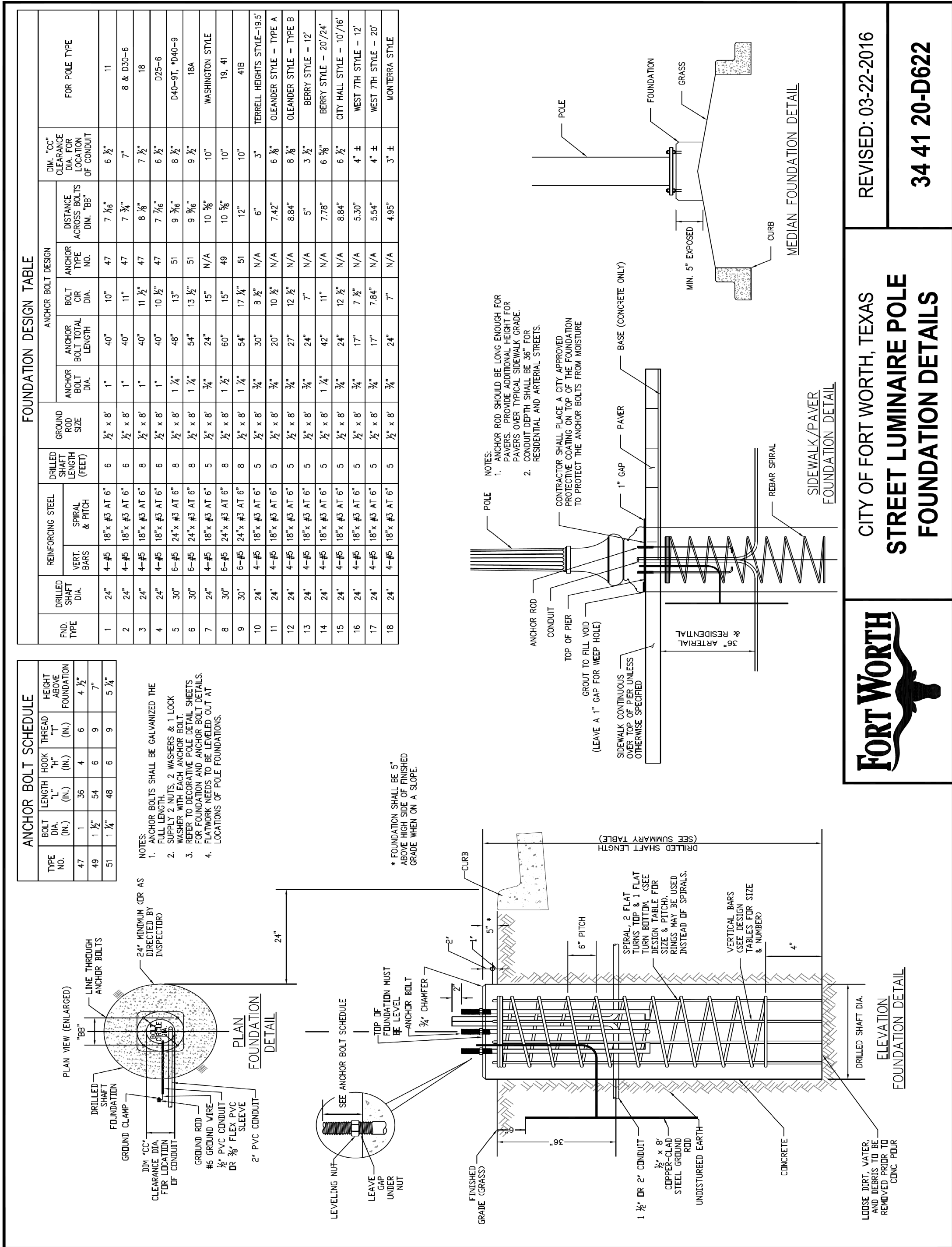
DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 146 OF 189
DRAWN: PTS			



FORT WORTH

CITY OF FORT WORTH, TEXAS
**STREET LUMINAIRE
POLE AND FIXTURE DETAILS**

REVISED: 07-09-2014
34 41 20-D621



FORT WORTH

CITY OF FORT WORTH, TEXAS
**STREET LUMINAIRE POLE
FOUNDATION DETAILS**

REVISED: 03-22-2016
34 41 20-D622

REVISIONS		
NO.	DESCRIPTION	DATE
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HALFF
TBPE FIRM #F-312
3803 PARKWOOD BLVD., STE 800
FRISCO, TEXAS 75034-8840
(214) 217-6954

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CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
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MAP NO. XXXX-XXX

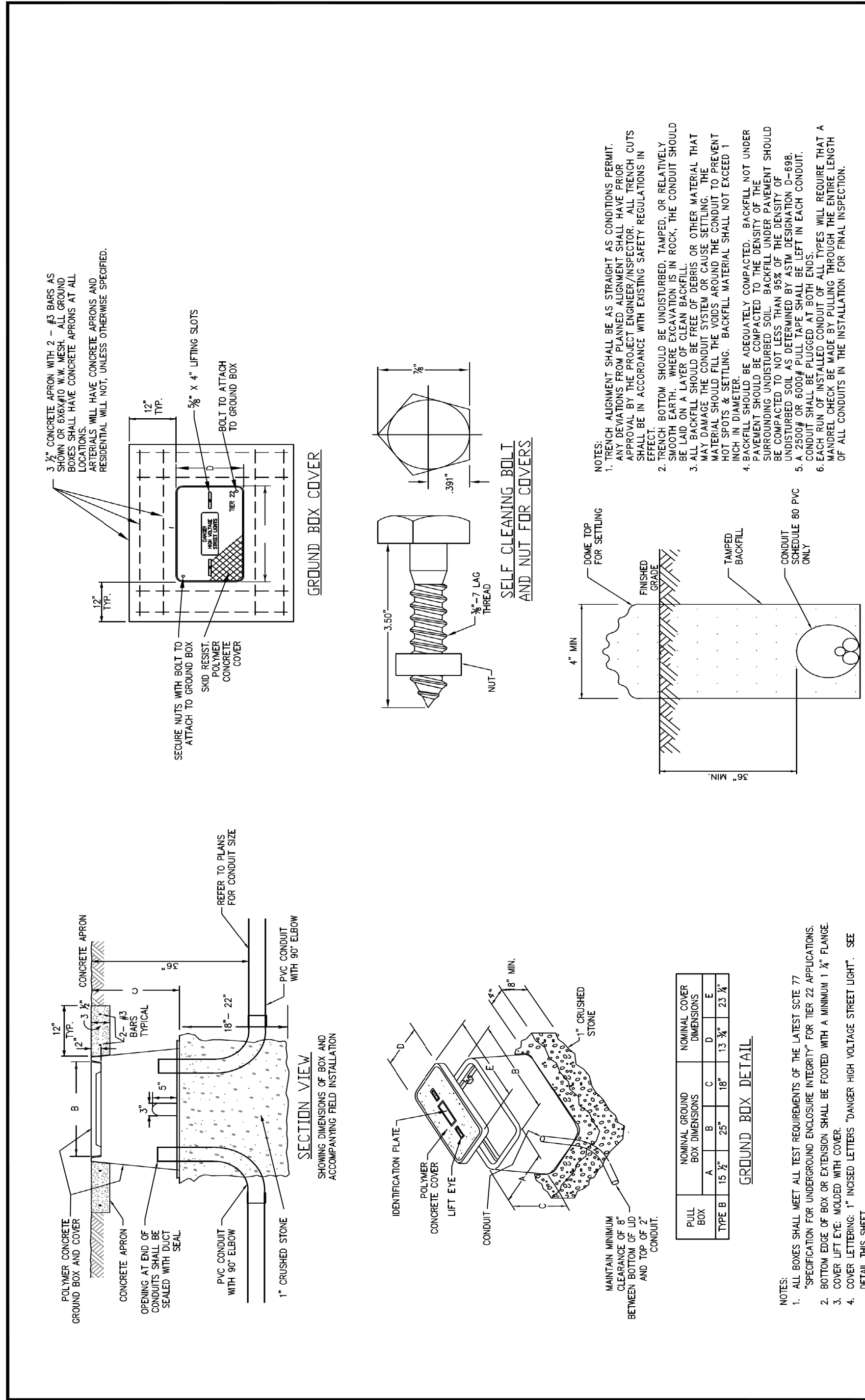
**CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES**

**TRANSPORTATION PROGRAMMING &
INFRASTRUCTURE PLAN REVIEW CENTER**

**EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
ROADWAY LIGHTING DETAILS
(SHEET 1 OF 5)**

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 147 OF 189
DRAWN: PTS			

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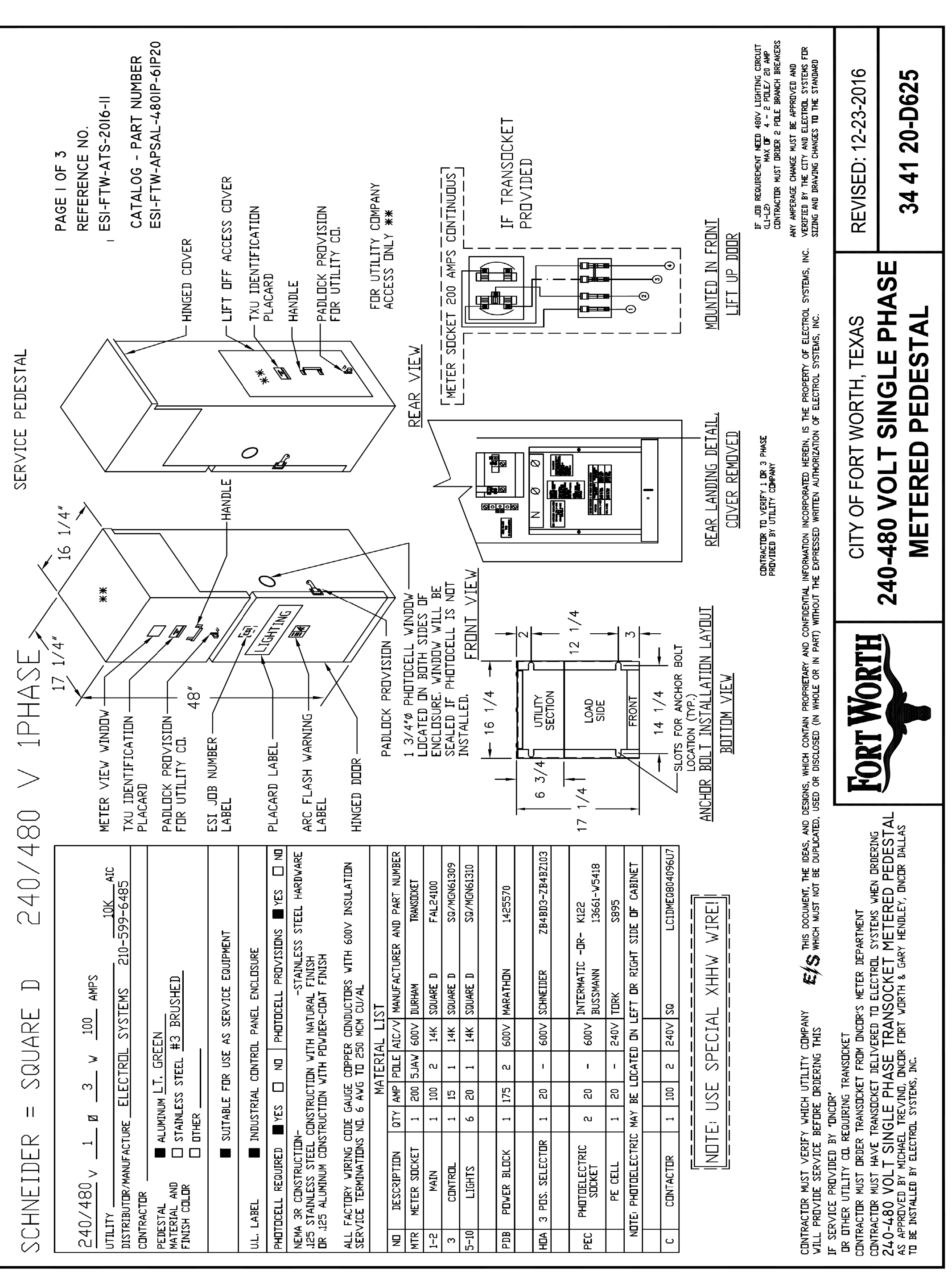
FORT WORTH

CITY OF FORT WORTH, TEXAS

STREET LUMINAIRE CONDUIT AND GROUND BOX DETAILS

REVISED: 01-09-2014

34 41 20-D624



REVISIONS		
NO.	DESCRIPTION	DATE
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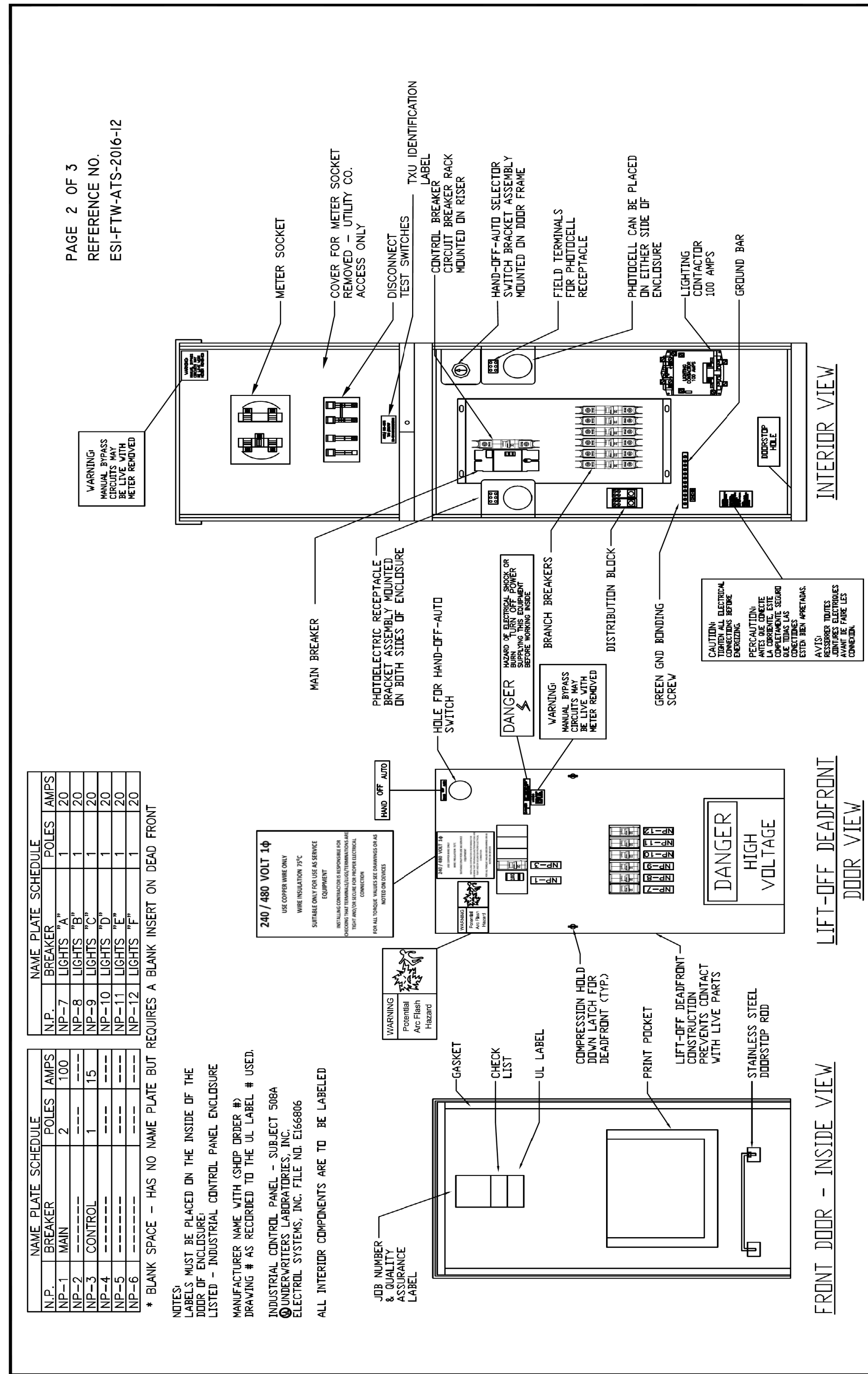
CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD

ROADWAY LIGHTING DETAILS
(SHEET 2 OF 5)

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 148 OF 189
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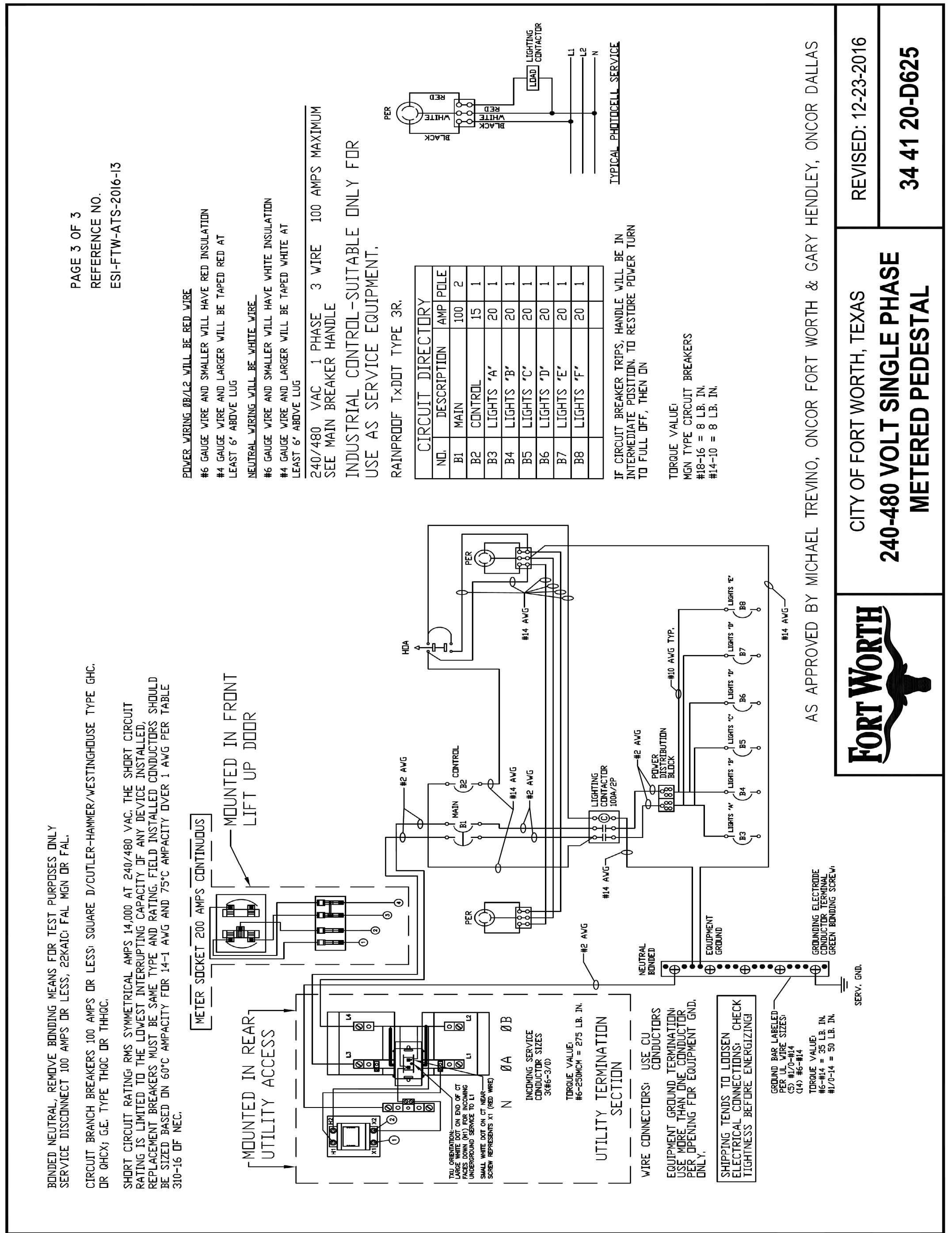


AS APPROVED BY MICHAEL TREVINO, ONCOR FORT WORTH & GARY HENDLEY, ONCOR DALLAS

FORT WORTH

CITY OF FORT WORTH, TEXAS
240-480 VOLT SINGLE PHASE METERED PEDESTAL

REVISED: 12-23-2016
34 41 20-D625



AS APPROVED BY MICHAEL TREVINO, ONCOR FORT WORTH & GARY HENDLEY, ONCOR DALLAS

FORT WORTH

CITY OF FORT WORTH, TEXAS
240-480 VOLT SINGLE PHASE METERED PEDESTAL

REVISED: 12-23-2016
34 41 20-D625

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 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD

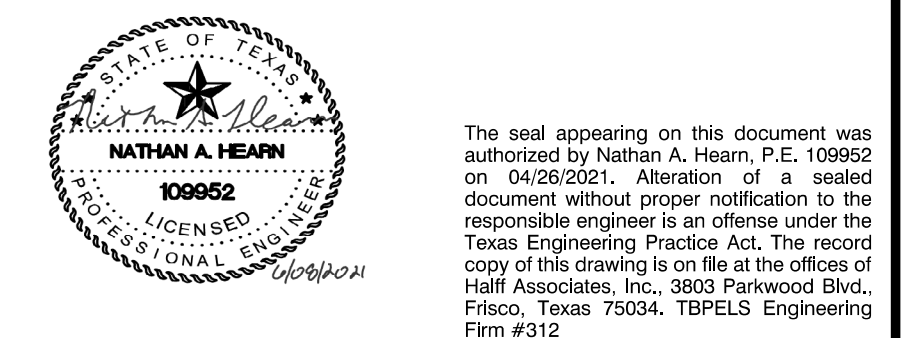
ROADWAY LIGHTING DETAILS
 (SHEET 3 OF 5)

DESIGNED: TMW SCALE: DATE: SHEET
 DRAWN: PTS N.T.S. 06/08/2021 149 OF 189

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REVISIONS

NO.	DESCRIPTION	DATE
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GENERAL NOTES FOR ALL ELECTRICAL WORK

- The location of all conduits, junction boxes, ground boxes, and electrical services is diagrammatic and may be shifted to accommodate field conditions.
- Provide new and unused materials. Ensure that all materials and installations comply with the applicable codes of the National Electrical Code (NEC), TxDOT standards and specifications, and manufacturer's instructions. All materials shall be approved by Underwriters Laboratories (UL) or a Nationally Recognized Testing Laboratory (NRTL), NRTLs such as Canadian Standards Association (CSA), Intertek Testing Services N. Inc., or FM Approvals International (Electrotechnical Commission (IEC) listed devices will not be considered acceptable equal to a NEMA listed device. Acceptable devices may have both a NEMA and IEC listing for use in this project. All devices shall be listed on the approved equipment list on additional cost to the Department. Brand or manufacturer rejected material or equipment of no value shall be returned to the contractor.
- Material on poles, bolts and hardware, except for high strength bolts, may be stainless steel when plans specify galvanized, provided the bolt size is 1/2" in. or less in diameter.
- Provide the following test equipment as required by the Engineer to confirm compliance with the contract and the NEC: voltmeter, ohmmeter, megohm meter (1000 volt DC), ground resistance tester, torque wrenches, and torque screwdrivers. Ensure all equipment has been properly tested and calibrated within the last 12 months. Test equipment shall be used per user's manual. Operator test equipment during inspection as requested by the Engineer.
- Install grounding as shown on the plans and in accordance with the NEC. Ensure all metallic conduits (metal poles, luminaires) and metal enclosures are bonded to the equipment grounding conductors, and bonding jumpers are installed to the various bid items.
- When required by the Engineer, notify the Department in writing of materials from the approved equipment list on additional cost to the Department. "Banned" Illumination and Electrical Supplies. No substitutions will be allowed for materials on this list.

CONDUIT

- Provide galvanized steel RMC for all exposed conduits, unless otherwise shown on the plans. Property bid all metal conduits.
 - Unless otherwise shown on the plans, provide junction boxes with a minimum size as shown in the table below. All boxes shall be made of heavy gauge metal. The minimum box size shall be 2 inches greater than the conductor size. If all are of the larger size, for situations not applicable to the table, size junction boxes in accordance with NEC.
 - Provide galvanized steel RMC for all exposed conduits, unless otherwise shown on the plans. Property bid all metal conduits.
 - Unless otherwise shown on the plans, provide junction boxes with a minimum size as shown in the table below. All boxes shall be made of heavy gauge metal. The minimum box size shall be 2 inches greater than the conductor size. If all are of the larger size, for situations not applicable to the table, size junction boxes in accordance with NEC.
- | 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" |
- Junction boxes with internal volume of less than 100 cu. in. and unshielded by entering raceways must have threaded entries or hubs identified for the intended purpose and supported by connection of two or more rigid metal conduits. Secure threaded entries to the junction box with a lock washer. If the junction box contains a metal conduit, the junction box must have an internal volume greater than 100 cu. inches.
 - Provide non-dipped galvanized cast iron or steel cast aluminum outlet boxes for cast aluminum boxes. Size outlet boxes according to the NEC.
 - Do not use intermediate metal conduit (IMC) or electrical metallic tubing (EMT) unless specifically required by the plan sheets. When EMT is called for, provide EMT with the proper listing for the application. Do not use EMT for applications where EMT is prohibited. Use, unless otherwise noted on the plans, size all galvanized steel junction boxes in accordance with the NEC. Provide junction boxes for IMC conduit systems that meet the same requirements for junction boxes used with IMC systems.
 - Provide PVC junction boxes intended for outdoor use on PVC conduit systems, unless otherwise noted on the plans.

- Provide PVC elbows in PVC conduit systems, unless otherwise shown on the plans. Use only rigid high tensile strength polymer. Their full range for pulling conductors through the plans and any portion of the RMC elbow is rigid less than 18" in. Ground the RMC in elbow by means of a grounding bushing on a rigid metal extension. Grounding of the rigid concrete, PVC extensions are allowed on these concrete encased rigid metal elbows, RMC or PVC elbows are subsidiary to various bid items.
- When required, provide High-Density Polyethylene (HDPE) conduit with factory installed internal conductors according to Item 622 "Junction Box". At the Contractor's request and with approval by the Engineer, provide a 1/2" diameter PVC conduit with factory installed conductors. The PVC conduit shall be installed in the same manner as the rigid metal conduit. The PVC conduit shall be installed in the same manner as the rigid metal conduit. The PVC conduit shall be installed in the same manner as the rigid metal conduit.
- Use two-hole, three-hole, or four-hole, 1/2" and larger conduits. On electrical service poles, properly sized stainless steel or hot dipped galvanized one-hole stanchion straps are allowed on the service riser conduit.

CONSTRUCTION METHODS

- Provide and install extension joint conduit fittings on all structure-mounted conduits of the structure's expansion joints to allow movement of the conduit. In addition, provide the structure's expansion joints to allow movement of the conduit. In addition, provide the structure's expansion joints to allow movement of the conduit. In addition, provide the structure's expansion joints to allow movement of the conduit.
- Do not attach conduit supports directly to pre-stressed concrete beams except as shown specifically in the plans or as approved by the Engineer.
- Unless otherwise shown on the plans, lock or bars shall be placed beneath existing raceways, driveway, sidewalks, or other the base or surfacing operation has begun. Backfill and compact the bore pits below the conduit per Item 416 "Jacking, Boring, or Tunneling Pipe or Box" prior to installing conduit or duct cable to prevent bending of the connections.
- When placing conduit in the sub-grade of new roadways, backfill all trenches with excavated material. Backfill all trenches with cementitious base as per requirements of Items 110 "Excavation", 400 "Excavation and Backfill for Structures", 401 "Flowable Backfill", 402 "French Excavation Protection", and 403 "Temporary Special Shoring".
- Provide and place warning tape approximately 10 in. above all trenches and conduits. During construction, temporarily cap or plug open ends of all conduit and raceways immediately after installation to prevent entry of dirt, debris and animals. Temporary caps constructed of durable and safe material. Temporarily fix the tape to the conduit opening. Clean out the conduit and probe for obstructions with Item 618 prior to installing any conductors.
- Ensure conduit entry into the top of any enclosure is waterproof by installing conduit sealing caps, service enclosures, auxiliary enclosures and junction boxes. Grounding bushings on water tight sealing hubs are not required.
- Fit the ends of all PVC conduit terminations with bushings or bell end fittings. Provide and install a grounding type bushing on all metal conduit terminations.
- Install a bonding jumper from each grounding bushing to the nearest ground rod, grounding lug, or equipment grounding conductor. Ensure all bonding jumpers are the same size as the equipment grounding conductor and are installed in accordance with Item 618 prior to installing any conductors.
- Seal all PVC conduit terminations with bushings or bell end fittings. Provide and install a grounding type bushing on all metal conduit terminations.
- Place conduits entering ground boxes so that the conduit on entering are between 3 in. and 6 in. from the bottom of the box, see the ground box detail on sheet ED(1)-14.
- Seal ends of all conduits with duct seal, expandable foam, or by other methods approved by the Engineer. Do not use duct tape as a permanent conduit sealant. Do not use silicone caulk on a conduit sealant.
- Fill smooth the end ends of all mounting strut and conduit. Before installing, paint the field cut ends of all mounting strut and RMC threaded or non-threaded with zinc rich paint (zinc or zinc-chrome) in accordance with Item 445 "Coatings". Do not paint non-polymerized materials with a zinc rich paint as an alternative for materials required to be galvanized.

Electrical Details
CONDUITS & NOTES
ED(1)-14

DATE	05/14/2021	BY	MM	SS
TIME	10:07	DATE	08/26/2021	BY
REV	1/1	DATE	08/26/2021	BY
APP		DATE		BY
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ELECTRICAL CONDUCTORS

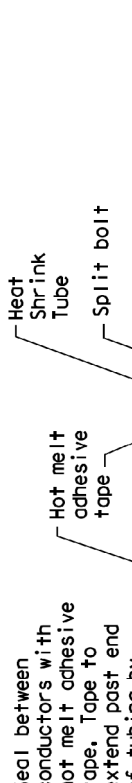
- Provide Type XHHW insulated conductors in accordance with Departmental Material Specifications (DMS) 1130 "Conduit" and Item 618 "Conduit" of TxDOT's Standard Specifications and Electrical Supplies. Item 620. Color code insulated conductors shall be in accordance with the NEC. All conductors shall be installed in accordance with the NEC. Provide ground conductors (ground wires) with green insulation or bare conductors. Identify ungrounded (hot) conductors with any color insulation system. Identify conductors 4 AWG and larger (with 600V and smaller by continuous color jacket). Identify electrical conductors 4 AWG and larger by continuous color jacket. Identify electrical conductors 4 AWG and larger by continuous color jacket. Identify electrical conductors 4 AWG and larger by continuous color jacket. Identify electrical conductors 4 AWG and larger by continuous color jacket.
- Provide a solid copper 6 AWG grounding electrode conductor to bond the electrical service equipment to the concrete encased grounding electrode or the ground rod at the service location. Connect the grounding electrode conductor to the ground rod and the grounding electrode conductor to the concrete encased grounding electrode as shown in the plans.
- Where two or more circuits are present in one conduit or enclosure, permanently identify the conductors of each branch circuit by attaching a non-metallic tag to the conductors. The tag shall be made of durable material and shall be legible with two sizes, large enough to indicate circuit number, letter, or other identification as shown in the plans. Print circuit identification on the tag with a permanent marker.
- Identify conductors on the plans by color, size, and listing. Provide color coding for conductors in accordance with the NEC. Provide color coding for conductors in accordance with the NEC. Provide color coding for conductors in accordance with the NEC.

CONSTRUCTION METHODS

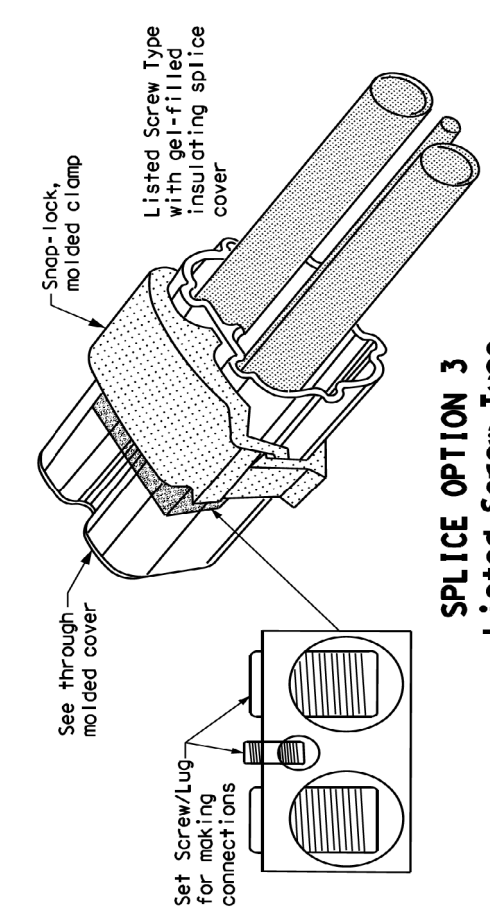
- Use only a high tensile strength polyethylene fiber cable for pulling conductors through the conduit system. After installing conductors in conduit, perform conductor pull test. If a conductor cannot be freely pulled, make any necessary adjustments. After pulling conductors, perform pull test. The pull test shall be performed in accordance with Item 620. Coordinate with the Engineer to witness the tests.
- Leave 2 ft. minimum, 3 ft. maximum length of conductor up to the splice in ground boxes. Leave 3 ft. minimum, 4 ft. maximum length of conductor in ground boxes. Leave 2 ft. minimum, 3 ft. maximum length of conductor in ground boxes. Leave 2 ft. minimum, 3 ft. maximum length of conductor in ground boxes. Leave 2 ft. minimum, 3 ft. maximum length of conductor in ground boxes.
- Make splices only in junction boxes, ground boxes, pole bases, or electrical terminal blocks or split bolt connectors. Insulate splices with heavy wall weatheright splices. Overlap conductor insulation with heat shrink tubing a minimum of 2 in. past both ends of the splice, where heat shrink tubing is used. Prior to heating the tubing, increase the diameter of the conductor and the splice to match the diameter of the heat shrink tubing. Heat the tubing and splice together until the heat shrink tubing is fully shrunk. Use hot melt adhesive tape to fill the gap and seal the heat shrink tubing. Use hot melt adhesive tape to fill the gap and seal the heat shrink tubing. Use hot melt adhesive tape to fill the gap and seal the heat shrink tubing.
- Splice and install split bolts in the same manner as listed in Item 620. Use the manufacturer's specifications when used in place of heat shrink tubing.
- Use one-hole factory installed waterproof sealant may be used for 6 AWG or smaller conductors in above ground junction boxes, but not in pole bases or ground boxes. Install wire nuts in an upright position to prevent the accumulation of water.
- Support conductors in luminaires with a J-hook at the top of the pole. When terminating conductors, remove the insulation and jacketing material without nicking the individual strands of the conductor. Conductors with nicked individual strands or removed strands will be considered damaged.
- Replace conductors and cables that are damaged beyond repair or that fail on installation. Use only approved splicing methods.
- Do not repair damaged conductors with duct tape, electrical tape, or wire nuts.
- Do not terminate more than one conductor under a single connector, unless the connector is specifically designed for this application. Use the pressure connector's listing for maximum number and size of conductors allowed.
- Install breakaway connectors on conductors bid under Item 620 whenever these connectors are used. Provide temporary supports to prevent damage to the conductors during installation. Proper termination is critical to the safe operation of the conductors. Provide temporary supports to prevent damage to the conductors during installation. Provide temporary supports to prevent damage to the conductors during installation. Provide temporary supports to prevent damage to the conductors during installation.



SPLICE OPTION 1
Compression Type



SPLICE OPTION 2
Split Bolt Type



SPLICE OPTION 3
Listed Screw Type

Electrical Details
CONDUCTORS
ED(3)-14

DATE	05/14/2021	BY	MM	SS
TIME	10:07	DATE	08/26/2021	BY
REV	1/1	DATE	08/26/2021	BY
APP		DATE		BY
CHK		DATE		BY

REVISIONS

NO.	DESCRIPTION	DATE
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CONSTRUCTION NOTES

NOTE: ALL DIMENSIONS AND STATION/OFFSETS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED ON PLANS.

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING TREES, FENCES, RETAINING WALLS AND STRUCTURES UNLESS OTHERWISE NOTED.

NOTE: CONTRACTOR SHALL RELOCATE EXISTING FENCES AS NOTED TO ONE FOOT OF PROPOSED RIGHT OF WAY.

THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATING AT EACH LOCATION:

AT&T 1-800-878-8711
 FORT WORTH WATER DEPT.-FIELD OPERATIONS WATER (817) 925-2360
 FORT WORTH WATER DEPT.-FIELD OPERATIONS SANITARY SEWER (817) 223-7438
 FORT WORTH WATER DEPT.-FIELD OPERATIONS LOCATE (817) 392-6296
 FORT WORTH T&PW (817) 871-8100
 ATMOS ENERGY (817) 215-4366
 ONCOR GAS & ELECTRIC (817) 215-6214
 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X'-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	SET 'X'-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
ROADWAY LIGHTING DETAILS
(SHEET 4 OF 5)

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 150 OF 189
DRAWN: PTS			

ELECTRICAL SERVICE NOTES

1. Provide new material. Ensure installation and materials comply with the applicable code. Ensure all materials are approved for use. Ensure materials are installed in accordance with the manufacturer's instructions. Ensure materials are installed in accordance with the manufacturer's instructions. Ensure materials are installed in accordance with the manufacturer's instructions.
2. Provide all work, materials, services, and any instruments needed to install a complete electrical service as specified in the plans.
3. Coordinate with the Engineer and the utility provider for metering and conditions with utility requirements. Primary line extensions, connection charges, meter and meter base, and other utility charges shall be the responsibility of the utility company. The contractor shall be responsible for the costs associated with these charges prior to engaging the utility company to do the work. Consult with the utility provider to determine costs and requirements, and coordinate the work as approved.
4. The enclosure manufacturer will provide Master Lock Type 2 with brass trimmer keys #195 for all custom electrical enclosures. Installing Contractor is responsible for providing the keys to the utility provider. The keys shall be provided to the utility provider in a sealed envelope. The keys shall be provided to the utility provider in a sealed envelope. The keys shall be provided to the utility provider in a sealed envelope.
5. Provide all work, materials, services, and any instruments needed to install a complete electrical service as specified in the plans.
6. Provide wiring and electrical components rated for 75°C. Provide red, black, white, and green conductors. Provide 6 AWG conductors by continuous color jacket (CCC) wire (e.g., THHN). Identify size 6 AWG conductors by continuous color jacket (CCC) wire (e.g., THHN). Identify size 6 AWG conductors by continuous color jacket (CCC) wire (e.g., THHN).
7. Use of 1/2" diameter flexible metal conduit (FMC) is allowed between the meter and service enclosure when they are mounted 90 to 180 degrees to each other. Size the conduit for the service enclosure. The conduit must not exceed 3 feet in length. The conduit must not exceed 3 feet in length. The conduit must not exceed 3 feet in length.
8. Provide all work, materials, services, and any instruments needed to install a complete electrical service as specified in the plans.
9. Provide all work, materials, services, and any instruments needed to install a complete electrical service as specified in the plans.
10. Provide all work, materials, services, and any instruments needed to install a complete electrical service as specified in the plans.
11. Use of 1/2" diameter flexible metal conduit (FMC) is allowed between the meter and service enclosure when they are mounted 90 to 180 degrees to each other. Size the conduit for the service enclosure. The conduit must not exceed 3 feet in length. The conduit must not exceed 3 feet in length. The conduit must not exceed 3 feet in length.
12. Provide all work, materials, services, and any instruments needed to install a complete electrical service as specified in the plans.
13. Provide all work, materials, services, and any instruments needed to install a complete electrical service as specified in the plans.

SERVICE ASSEMBLY ENCLOSURE

1. Provide threaded hub for all conduit entries into the top of enclosure.
2. Type galvanized steel (GS) enclosures may be used for Type C panelboards and for Type D and T services that do not use an enclosure mounted on a structure or lighting fixture. Enclosures shall be in accordance with the manufacturer's instructions. Enclosures shall be in accordance with the manufacturer's instructions.
3. Provide aluminum (AL) enclosures (see enclosures for Types A, C, and D) in accordance with DMS 11080, 11081, 11082, 11083, and 11084. Do not paint stainless steel.
4. Provide stainless steel (SS) enclosures in accordance with DMS 11090 and 11091. Enclosures may be used for Type C panelboards and for Type D and T services that do not use an enclosure mounted on a structure or lighting fixture. Enclosures shall be in accordance with the manufacturer's instructions. Enclosures shall be in accordance with the manufacturer's instructions.

MAIN DISCONNECT & BRANCH CIRCUIT BREAKERS

1. Field drilled (FDR) mounted remote operator handling, if needed, to ensure handle is accessible in both the "on" and "off" positions.
2. When the utility company provides a transformer larger than 90 KVA, the contractor shall provide a disconnecting means in accordance with the manufacturer's instructions. The disconnecting means shall be in accordance with the manufacturer's instructions.

PHOTOELECTRIC CONTROL

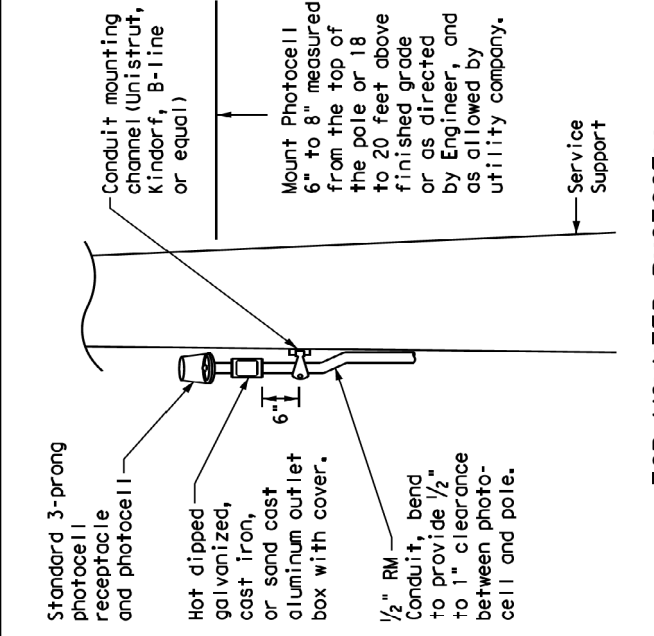
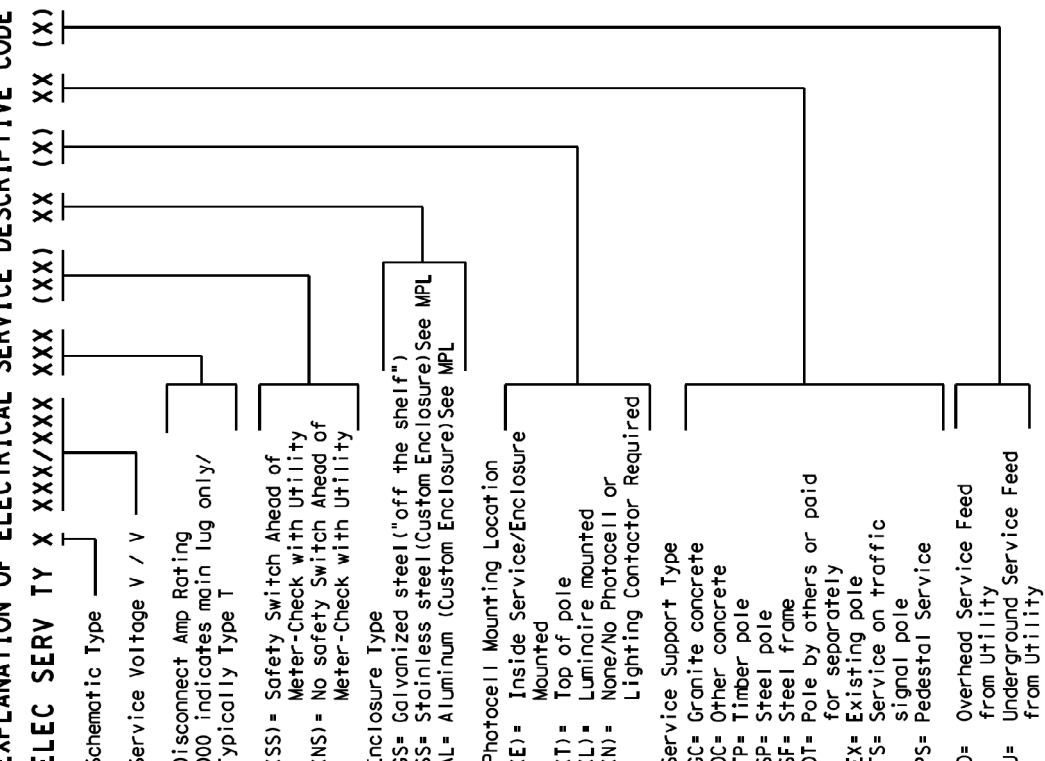
1. Provide photoelectric control as listed on the plan. Mount, adjust, or shield the photoelectric control in accordance with the manufacturer's instructions. Mount photoelectric control north when practical. Mount top of pole photoelectric control as shown on plan. Mount photoelectric control north when practical. Mount top of pole photoelectric control as shown on plan.

* ELECTRICAL SERVICE DATA

Elec. Service ID	Plan Number	Electrical Service Description	Service Size (KVA/Size)	Safety (MOS)	Main Disconnect (MOS)	Panel/Conductor Amp Rating	Branch Circuit Pole/Amperage	Branch Pole/Amperage	Branch Load (KVA)
SB 183	289	ELC SRV TY A 240/480 100(SS)AL(E)SF(D)	2"	3/4"E	100	2P/100	LIGHTING SB 2P/40 25	2P/40 25	28
MB ACBBE	30	ELC SRV TY D 120/240 360(SS)SS(E)TS(D)	1 1/2"	3/4"E	N/A	2P/60	UNDERPASS 1P/20 15	1P/20 15	5.3
2nd & Main	58	ELC SRV TY T 120/240 000(SS)SS(IN)SP(D)	1 1/4"	3/4"E	N/A	70	FLASHING BEACON 1 1P/20 4	1P/20 4	L.O

* Example only, not for construction. All new electrical services must have electrical service data sheet specific to that service as shown in the plans.
 ** Verify service conduit size with utility. Size may change due to utility meter requirements. Ensure conduit size meets the National Electrical Code.

EXPLANATION OF ELECTRICAL SERVICE DESCRIPTIVE CODE



TOP MOUNTED PHOTOCELL

Install conduit strap maximum 3 feet from box. 5 foot maximum spacing between straps supporting conduit.

TRAFFIC OPERATIONS DIVISION
 TEXAS DEPARTMENT OF TRANSPORTATION
ELECTRICAL DETAILS SERVICE NOTES & DATA
ED(15)-14

DATE: 05-14-2021	BY: [Signature]	NO. 1002	REV. 1002	NO. 1002
DATE: 05-14-2021	BY: [Signature]	NO. 1002	REV. 1002	NO. 1002
DATE: 05-14-2021	BY: [Signature]	NO. 1002	REV. 1002	NO. 1002
DATE: 05-14-2021	BY: [Signature]	NO. 1002	REV. 1002	NO. 1002

DISCLAIMER: This drawing is prepared by the Texas Engineering Practice Act. No warranty of any kind is made by TREC or its members for any purpose whatsoever. The user assumes all responsibility for the accuracy of the information shown on this drawing. The user assumes all responsibility for the accuracy of the information shown on this drawing.

REVISIONS

NO.	DESCRIPTION	DATE
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CONSTRUCTION NOTES

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 THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATING AT EACH LOCATION:
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 FORT WORTH WATER DEPT.-FIELD OPERATIONS SANITARY SEWER (817) 223-7438
 FORT WORTH WATER DEPT.-FIELD OPERATIONS LOCATE (817) 392-6296
 FORT WORTH T&PW (817) 871-8100
 ATMOS ENERGY (817) 215-4366
 ONCOR GAS & ELECTRIC (817) 215-6214
 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO.
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD ROADWAY LIGHTING DETAILS (SHEET 5 OF 5)

DESIGNED: TMW	SCALE:	DATE:	SHEET
DRAWN: PTS	N.T.S.	06/08/2021	151 OF 189

Erosion Controls

- Pursuant to the project requirements the Contractor shall prepare a storm water pollution prevention plan.
- The drawings contained herein are not, and should not be considered to be a storm water pollution prevention plan. Should the Contractor choose to use the information herein, he shall do so with the provision that he at a minimum meets all of the permit requirements for construction activities under the TCEQ TPDES Permit No. TXR150000 and other applicable permits, rules, regulations and codes.
- Stabilization shall be performed for all disturbed natural vegetation. If weather conditions are unfavorable for revegetation, temporary stabilization will be ensured on all areas.
- As the site work is completed, stabilization shall begin within 14 days of completion of work in the area, or as soon as weather conditions allow. If revegetation is not possible then temporary stabilization measures must be implemented within 14 days of completion of work. If construction activities temporarily cease on an area and are not scheduled to begin work in that location for more than 21 days, temporary stabilization measures must be put in place. Temporary stabilization may be achieved using the following BMP's: temporary seeding, soil retention blankets, fibrous mulches, hydro-mulches and other techniques that cover 100 percent of the disturbed areas until final stabilization can be achieved or until further construction activities take place.
- Final stabilization measures must provide a perennial vegetative cover with a uniform density of 70% of the native background vegetative cover or equivalent permanent measures (riprap, gabion, or geotextiles).
- Hydro-mulch will not be allowed in vegetated swales, channels or other drainage ways.
- Temporary BMP's shall be removed within 30 days of establishing final stabilization.
- Triangular filter dike shall be used downstream of any stockpile locations to control sediment.
- Construction access controls should be installed where equipment will be exiting the site and entering public roads. Soil tracked onto public roads will be removed at least weekly and more frequently if necessary. Using water to wash sediment from public streets is prohibited.
- Contractor shall add to the site map at a minimum, the following and shall add additional information as required by the permit:
 - Off-site material, waste, borrow, fill or equipment.
 - Areas disturbed/areas undisturbed no shown.
 - Concrete or asphalt batch plants.
 - Equipment storage areas
 - On-site waste and trash storage
 - Sanitary waste facilities
 - Fueling area with containment
 - Concrete truck washout location
 - Revise phases shown in plans as appropriate for his operation.

Slope Protection

- Temporary berms and or swales shall be provided to direct storm water away from the slope until the slope is stabilized.
- Temporary terraces shall be provided at regular intervals to break up slopes longer than 50 feet until the slope is stabilized.
- Final stabilization measures shall be initiated within 12 days of completing work on the slope.
- Soil retention blanket shall be provided on all slopes steeper than one vertical on five horizontal (5H:1V).

Requirements for Materials and Wastes

- Sanitary facilities shall be provided on the site at a location approved by the City. The facilities shall be regularly serviced at the frequency recommended by the supplier for the number of people using the facility.
- Store all trash and debris in covered bins or other enclosures. Trash and debris shall be removed from the site at regular intervals. Containers shall not be allowed to overflow.

- The amount of chemicals and hazardous materials stored on-site shall be minimized and limited to the materials necessary for the current phase of construction. Chemicals and hazardous materials shall be stored in their original, manufacturer's containers inside of a shelter that prevents contact with rainfall and runoff. Hazardous material storage shall be in accordance with all Federal, state and local laws and regulations. Storage locations shall have appropriate placards and secondary containment equivalent to 110% of the largest container in storage. If an earthen pit or berm is used for secondary containment, it shall be lined with plastic. Containers shall be kept closed except when materials are added or removed. Materials shall be dispensed using drip pans or within a bermed area or using other spill/overflow protection measures.

- On-site fuel tanks shall be provided with a secondary enclosure equivalent to 110% of the tanks volume. If the enclosure is an earthen pit or berm, the area shall be lined with plastic. The location of fuel tanks and their secondary containment shall be approved by the City.
- A designated area for concrete wash-out shall be provided. A pit or bermed area, lined with plastic, or an equivalent containment measure shall be provided for concrete wash-out water. The containment shall be a minimum of 6 CF for every 10 CY of concrete placed plus a one foot freeboard. The discharge of wash-out water to drainage ways or storm drain infrastructure shall be prohibited.
- Hyper-chlorinated water shall not be discharged to the environment unless the chlorine concentration is reduced to 4 ppm or less by chemically treating to dechlorinate or by on-site retention until natural attenuation occurs. Natural attenuation may be aided by aeration. Water with measurable chlorine concentration of less than 4 ppm is prohibited from being discharged directly to surface water. It shall be discharged onto vegetation or through a conveyance system for further attenuation of the chlorine before it reaches surface water. Alternatively, permission from the sanitary sewer operator may be obtained to discharge directly to the sanitary sewer.
- Vehicle and equipment washing is prohibited on the site unless a lined basin is provided to capture 100% of the wash water. The wash water may be allowed to evaporate or hauled-off for disposal.
- Lime or other chemical stabilizers shall be limited to the amount that can be mixed and compacted by the end of each working day. Stabilizers shall be applied at rates that result in no runoff. Stabilization shall not occur immediately before and during rainfall events. Soil stabilizers stored on-site shall be considered a hazardous material and shall meet all the requirements for chemicals and hazardous materials.
- Slurry from concrete cutting shall be vacuumed or otherwise recovered and not be allowed to discharge from the site. If the pavement to be cut is near a storm drain inlet, the inlet shall be protected by sandbags or equivalent temporary measures to prevent the slurry from entering the inlet.

Inspection and Maintenance

- Inspections shall be performed on construction areas once every 14 days and within 24 hours of a rainfall of 0.5 inches or greater, (or once every 7 days regardless of rainfall) to insure that all of the sediment and erosion control measures are operating correctly. Areas to inspect include but are not limited to:
 - Disturbed areas that have not been finally stabilized
 - Areas used for storage of materials that are exposed to precipitation
 - Control measures outlined in this SWP3 plan
 - Discharge points for visible signs of erosion and impact to receiving waters
- Erosion, sediment, and material and waste controls shall be repaired, replaced, modified and/or added if inspections reveal the controls were not installed correctly, are damaged, or are inadequate or ineffective in controlling their targeted pollutant.
- Sediment shall be removed from BMPs when the sediment reaches half of the BMPs capacity or more frequently. Sediment discharged from the site shall be removed prior to the next rain event, where feasible, and in no case later than seven days after it is discovered. Upon completion of construction, sediment shall be removed from all storm drain infrastructure and permanent BMPs before the temporary BMPs are removed from the site.

Calculations

- Silt Fence:
Maximum sheet flow distance of 200 feet.
Maximum drainage area of 0.25 acre pre 100 feet of silt fence was used.
- Rock Check Dam:
2 foot heights were used so that the top of the downstream dam would be at the toe of the upstream dam for the trapezoidal channel. The berms are intended to help reduce velocities.

Erosion Control Notes

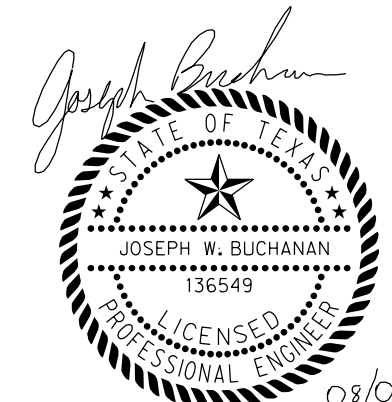
- Soil erosion and sediment control shall be provided in accordance with City of Fort Worth erosion regulations.
- Responsibility for installation, routine inspection, and maintenance of erosion control should be defined and assigned to appropriate person(s) prior to commencement of any soil disturbing activity.
- Erosion control measures must be constructed and functional before any grading or land disturbance takes place.
- Temporary or permanent soil stabilization must be applied to all denuded areas when final grade is reached on any portion of site. Temporary soil stabilization must be applied to disturbed areas left dormant for 14 days.
- In the event that measures being used are deemed to be ineffective by city inspectors, additional measures or changes in the original plan may be required by the City of Fort Worth.
- All erosion control devices shall be inspected by the site foreman daily, any structure or control device which is damaged or inoperative will be repaired or replaced immediately.
- Construction entrances/exits should be limited and protection provided to prevent tracking of soils onto city streets.
- Remove silt or sediments from streets, curbs, gutters, flumes, handicap access ramps, curb inlets, storm drains, and any other public drainage facilities daily or as accumulation occurs.
- Erosion control should be evaluated to determine the effectiveness of those devices by the person assigned to inspect erosion control devices, and changes made if necessary.
- Soil tracked onto public roads shall be removed DAILY if feasible, or when visibly accumulated sediment has been deposited. Discharged sediment shall be removed AS SOON AS POSSIBLE.
- Using wash water to wash sediment from streets is prohibited.

Pre-Existing Medians/Parkways

- All existing medians/ROWs disturbed during construction shall be returned to their original state or better upon completion of the project. In the event that grass has been disturbed, grass shall be established at 100% by Contractor.
- Prior to sod or seeding, remove all rocks greater than 1.5" in size. (32 92 13 - 1.2).
- In contract, provide separate bid line items for soil, grass seed/sod for establishing coverage on medians and ROWs. (32 91 19 - 1.2 Topsoil, 32 92 13 - 1.2 Hydromulching, Seeding, & Sodding - Price & Payment Procedures)
- All dirt mounds shall be removed from medians/ROWs prior to seeding after construction is completed.
- Remove silt fencing from medians/ROWs once vegetation is successfully established.
- Contact PARD prior to working in median 817-392-5700. (PARD may have contract mowing that needs to be halted during construction OR may need to contact Adoption partner who maintains median.)
- Do not park equipment or store materials on medians/ROWs.

REVISIONS

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DOE # K-2840
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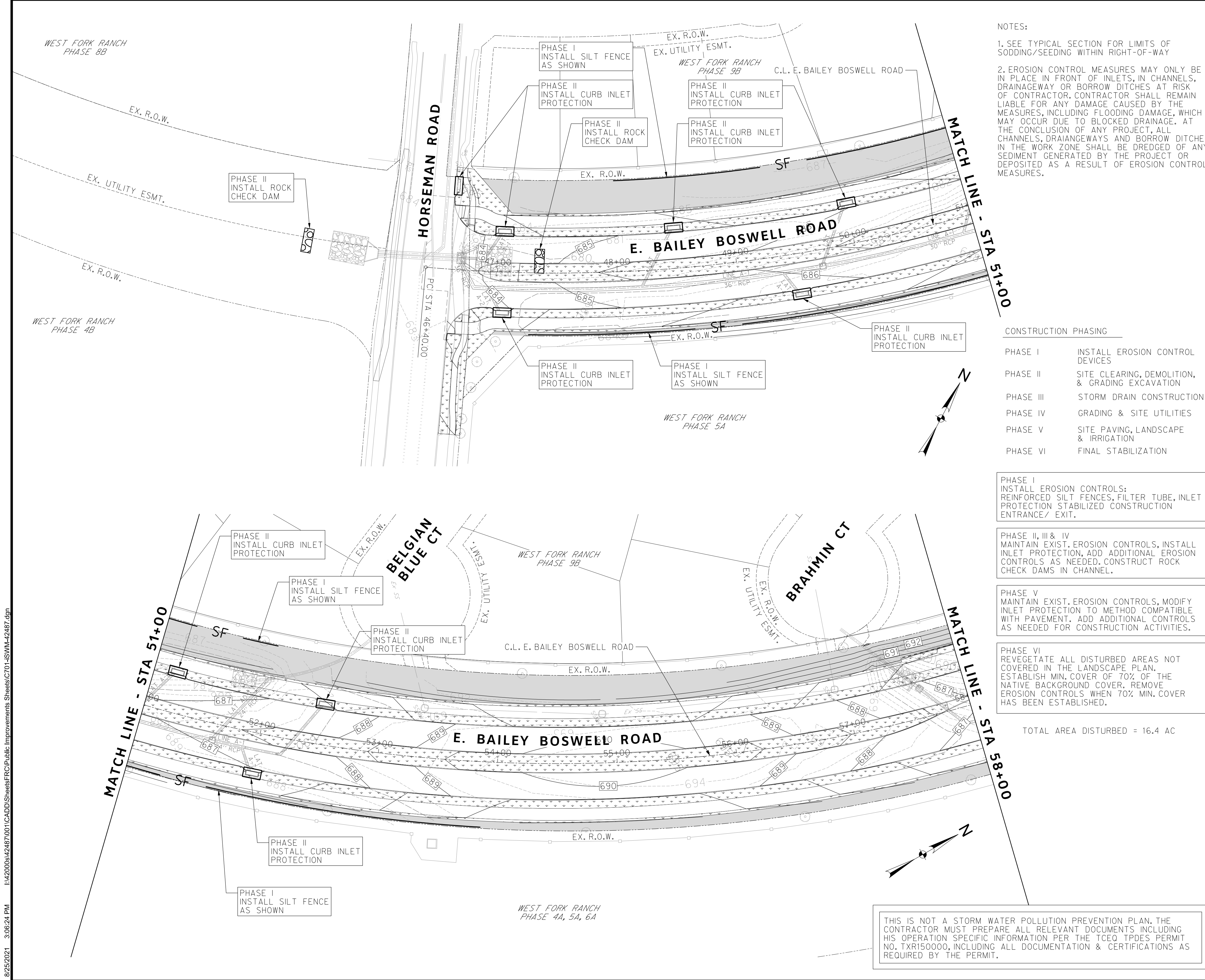
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
GENERAL NOTES

iSWM CONSTRUCTION

DESIGNED: TMW	SCALE:	DATE:	SHEET
DRAWN: PTS	N.T.S.	06/08/2021	152 OF 189



NOTES:

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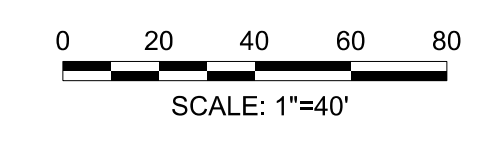
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TOTAL AREA DISTURBED = 16.4 AC

THIS IS NOT A STORM WATER POLLUTION PREVENTION PLAN. THE CONTRACTOR MUST PREPARE ALL RELEVANT DOCUMENTS INCLUDING HIS OPERATION SPECIFIC INFORMATION PER THE TCEQ TPDES PERMIT NO. TXR150000, INCLUDING ALL DOCUMENTATION & CERTIFICATIONS AS REQUIRED BY THE PERMIT.

REVISIONS

No.	DESCRIPTION	DATE
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2		
3		



iSWM LEGEND

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DOE # K-2840
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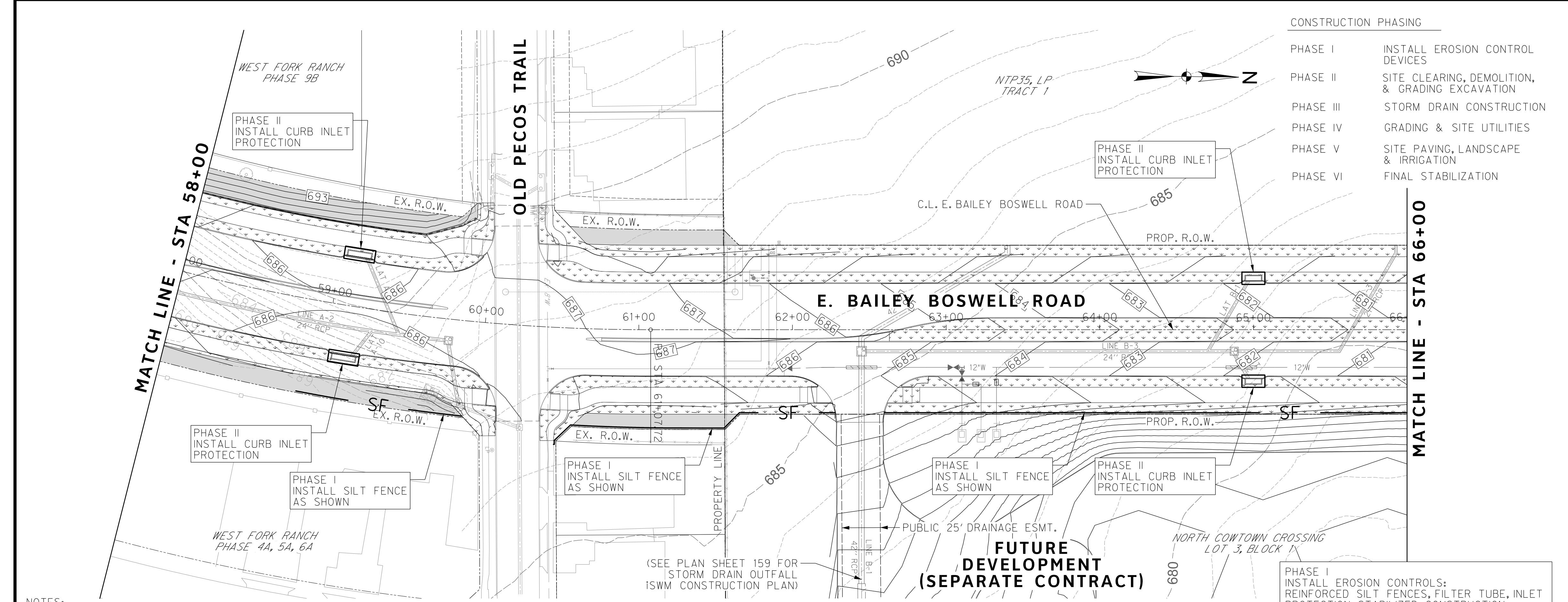
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
iSWM CONSTRUCTION
 BEGIN TO STA 58+00

PLAN

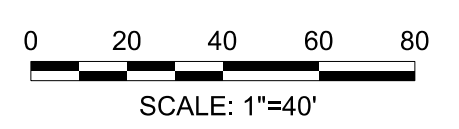
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- CONSTRUCTION PHASING**
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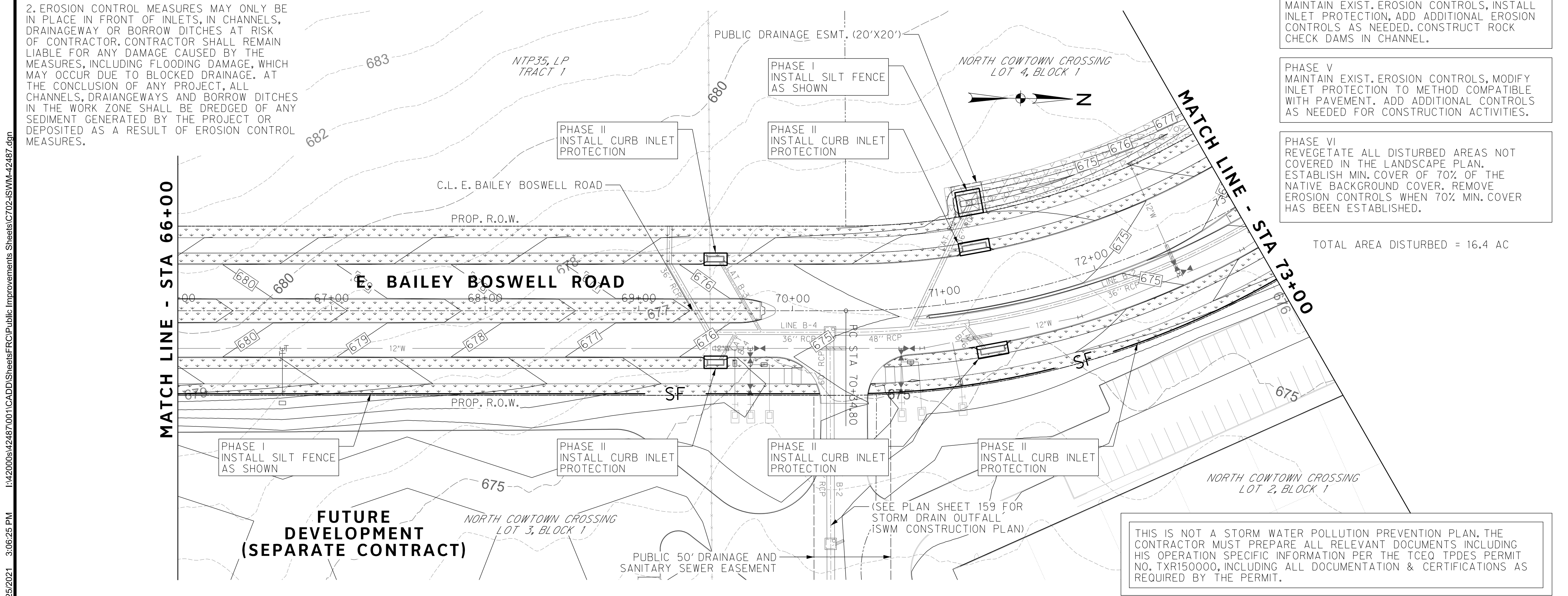


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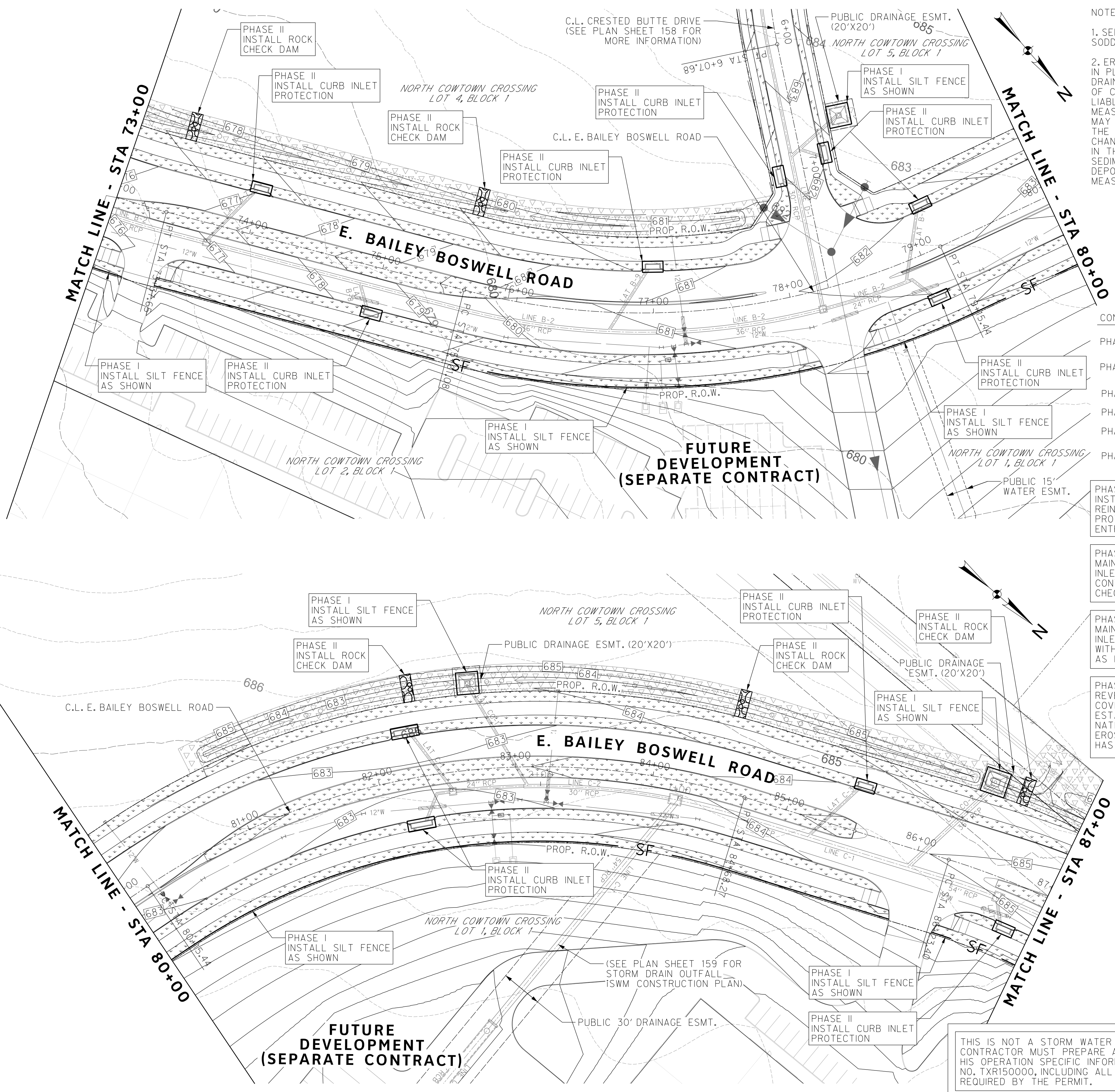
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iSWM CONSTRUCTION
STA 58+00 TO STA 73+00

PLAN

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 154 OF 189
DRAWN: PTS			

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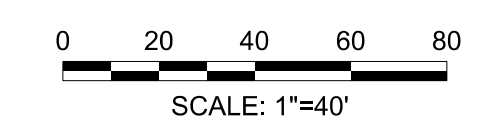
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**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES**

**TRANSPORTATION PROGRAMMING &
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**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
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 STA 73+00 TO STA 87+00**

PLAN

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 155 OF 189
DRAWN: PTS			

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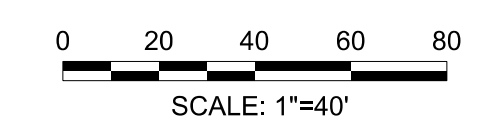
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INLET PROTECTION, ADD ADDITIONAL EROSION
CONTROLS AS NEEDED, CONSTRUCT ROCK
CHECK DAMS IN CHANNEL.

PHASE V
MAINTAIN EXIST. EROSION CONTROLS, MODIFY
INLET PROTECTION TO METHOD COMPATIBLE
WITH PAVEMENT. ADD ADDITIONAL CONTROLS
AS NEEDED FOR CONSTRUCTION ACTIVITIES.

PHASE VI
REVEGETATE ALL DISTURBED AREAS NOT
COVERED IN THE LANDSCAPE PLAN.
ESTABLISH MIN. COVER OF 70% OF THE
NATIVE BACKGROUND COVER. REMOVE
EROSION CONTROLS WHEN 70% MIN. COVER
HAS BEEN ESTABLISHED.

REVISIONS		
No.	DESCRIPTION	DATE
1		
2		
3		



iSWM LEGEND

- 685 --- EXISTING CONTOUR
- 679 --- PROPOSED CONTOUR
- SF - SILT FENCE
- [Symbol] CURB INLET PROTECTION
- [Symbol] CONSTRUCTION ENTRANCE/EXIT
- [Symbol] ROCK CHECK DAM
- [Symbol] BERMUDA SOD
- [Symbol] 6" TOPSOIL AND HYDROMULCH SEEDING
- [Symbol] 6" TOPSOIL AND SEEDING W/ SOIL RETENTION BLANKET



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CONSTRUCTION NOTES

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 NOTE: CONTRACTOR SHALL RELOCATE EXISTING FENCES AS NOTED TO ONE FEET OF PROPOSED RIGHT OF WAY.
 THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATING AT EACH LOCATION:
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 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 iSWM CONSTRUCTION
 STA 87+00 TO END**

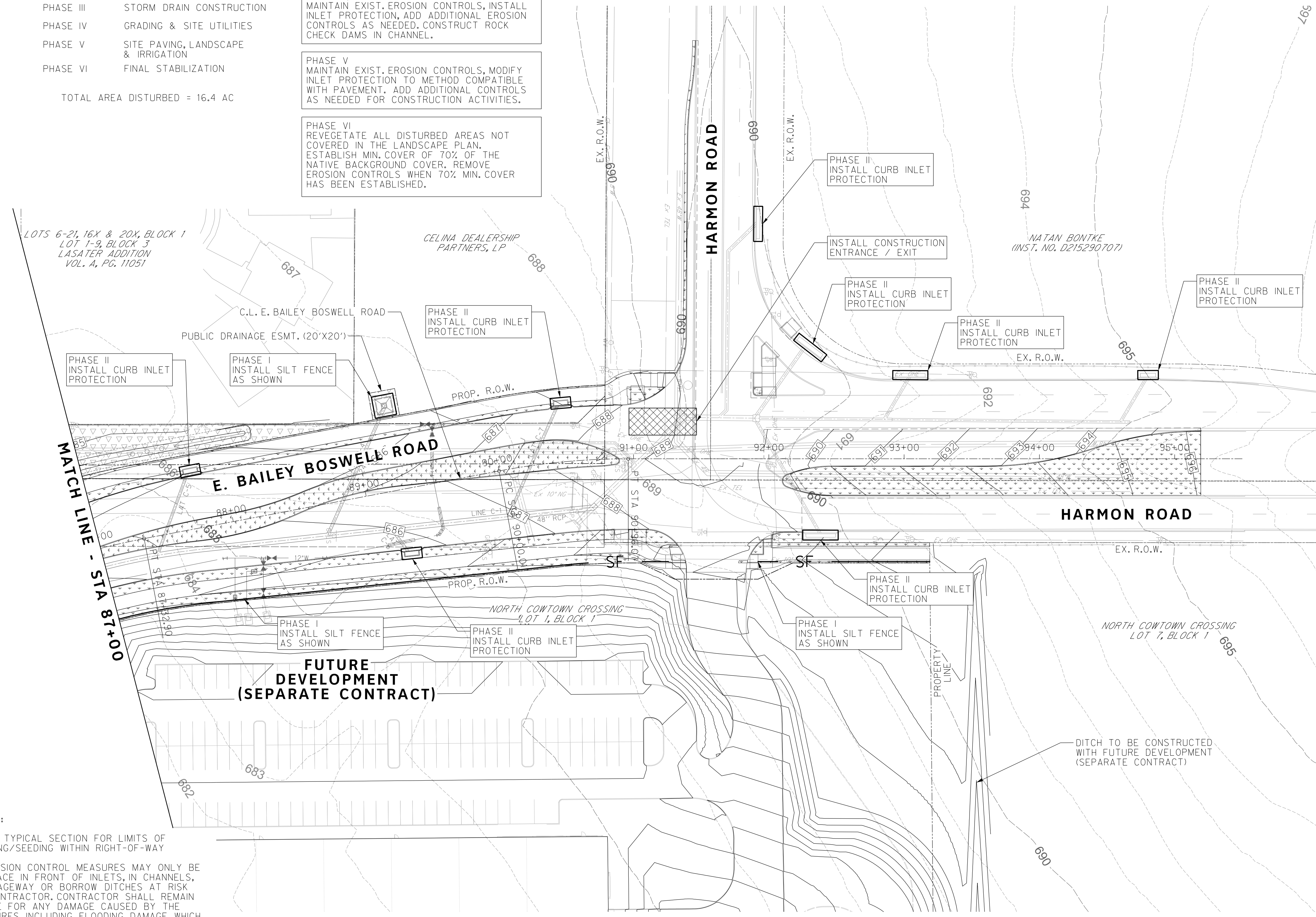
PLAN

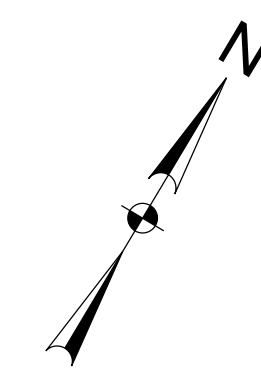
DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 156 OF 189
DRAWN: PTS			

8/25/2021 3:06:27 PM I:\420006\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C704-ISWM-42487.dgn

NOTES:
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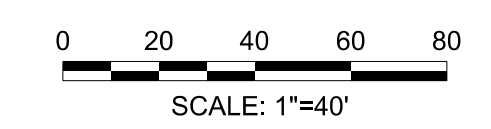
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 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
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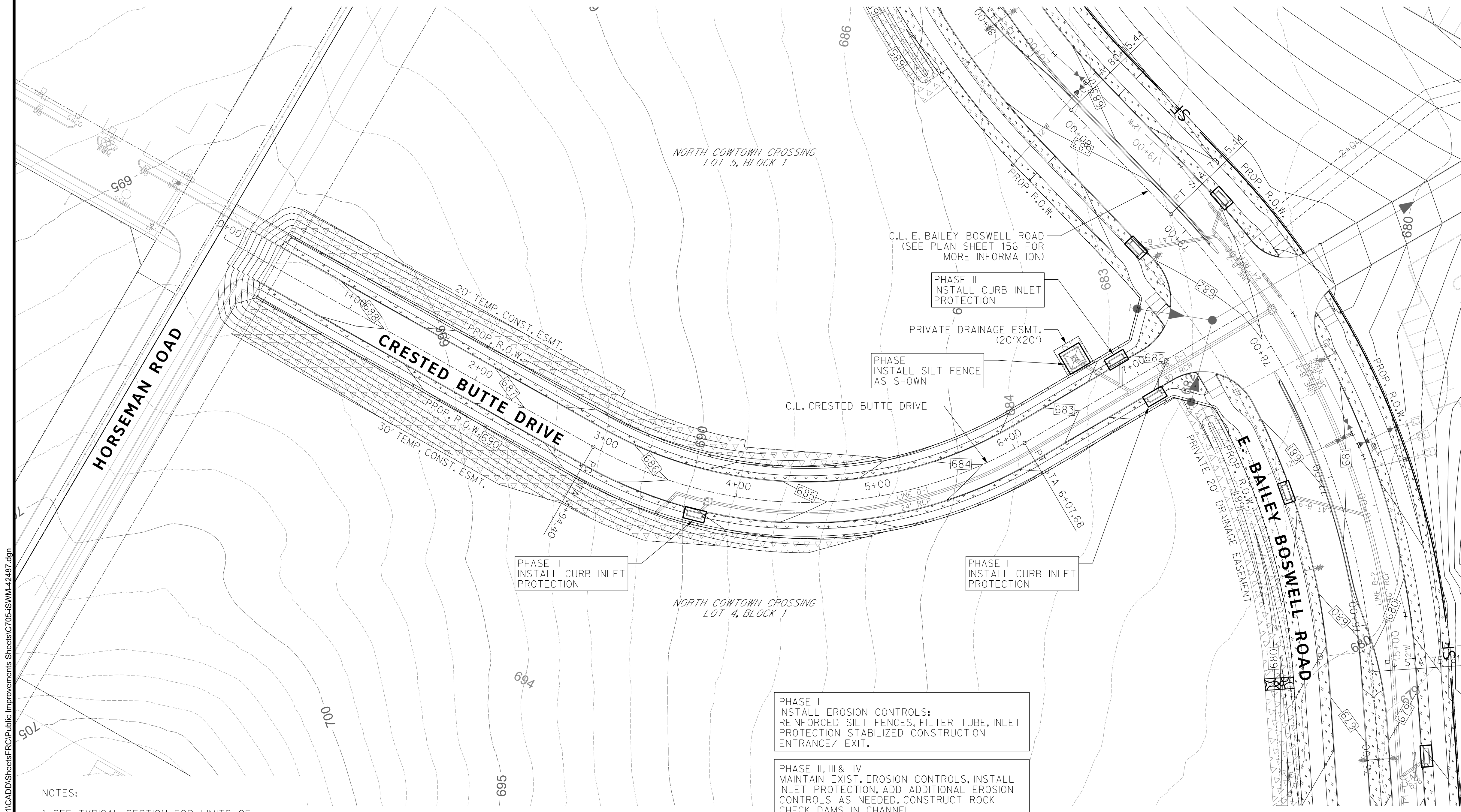
**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES**

**TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 iSWM CONSTRUCTION
 CRESTED BUTTE DRIVE**

PLAN

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 157 OF 189
DRAWN: PTS			



PHASE I
 INSTALL EROSION CONTROLS:
 REINFORCED SILT FENCES, FILTER TUBE, INLET
 PROTECTION STABILIZED CONSTRUCTION
 ENTRANCE/ EXIT.

PHASE II, III & IV
 MAINTAIN EXIST. EROSION CONTROLS, INSTALL
 INLET PROTECTION, ADD ADDITIONAL EROSION
 CONTROLS AS NEEDED. CONSTRUCT ROCK
 CHECK DAMS IN CHANNEL.

PHASE V
 MAINTAIN EXIST. EROSION CONTROLS, MODIFY
 INLET PROTECTION TO METHOD COMPATIBLE
 WITH PAVEMENT. ADD ADDITIONAL CONTROLS
 AS NEEDED FOR CONSTRUCTION ACTIVITIES.

PHASE VI
 REVEGETATE ALL DISTURBED AREAS NOT
 COVERED IN THE LANDSCAPE PLAN.
 ESTABLISH MIN. COVER OF 70% OF THE
 NATIVE BACKGROUND COVER. REMOVE
 EROSION CONTROLS WHEN 70% MIN. COVER
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CONSTRUCTION PHASING

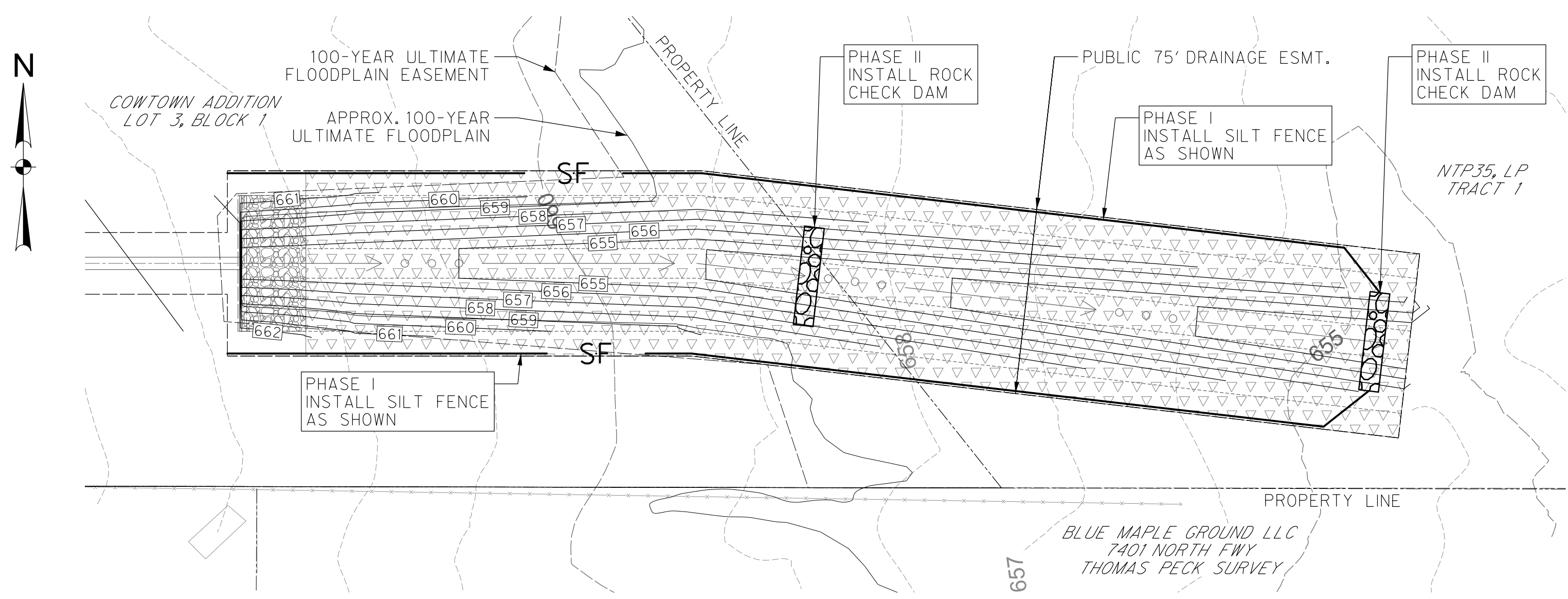
PHASE I	INSTALL EROSION CONTROL DEVICES
PHASE II	SITE CLEARING, DEMOLITION, & GRADING EXCAVATION
PHASE III	STORM DRAIN CONSTRUCTION
PHASE IV	GRADING & SITE UTILITIES
PHASE V	SITE PAVING, LANDSCAPE & IRRIGATION
PHASE VI	FINAL STABILIZATION

TOTAL AREA DISTURBED = 16.4 AC

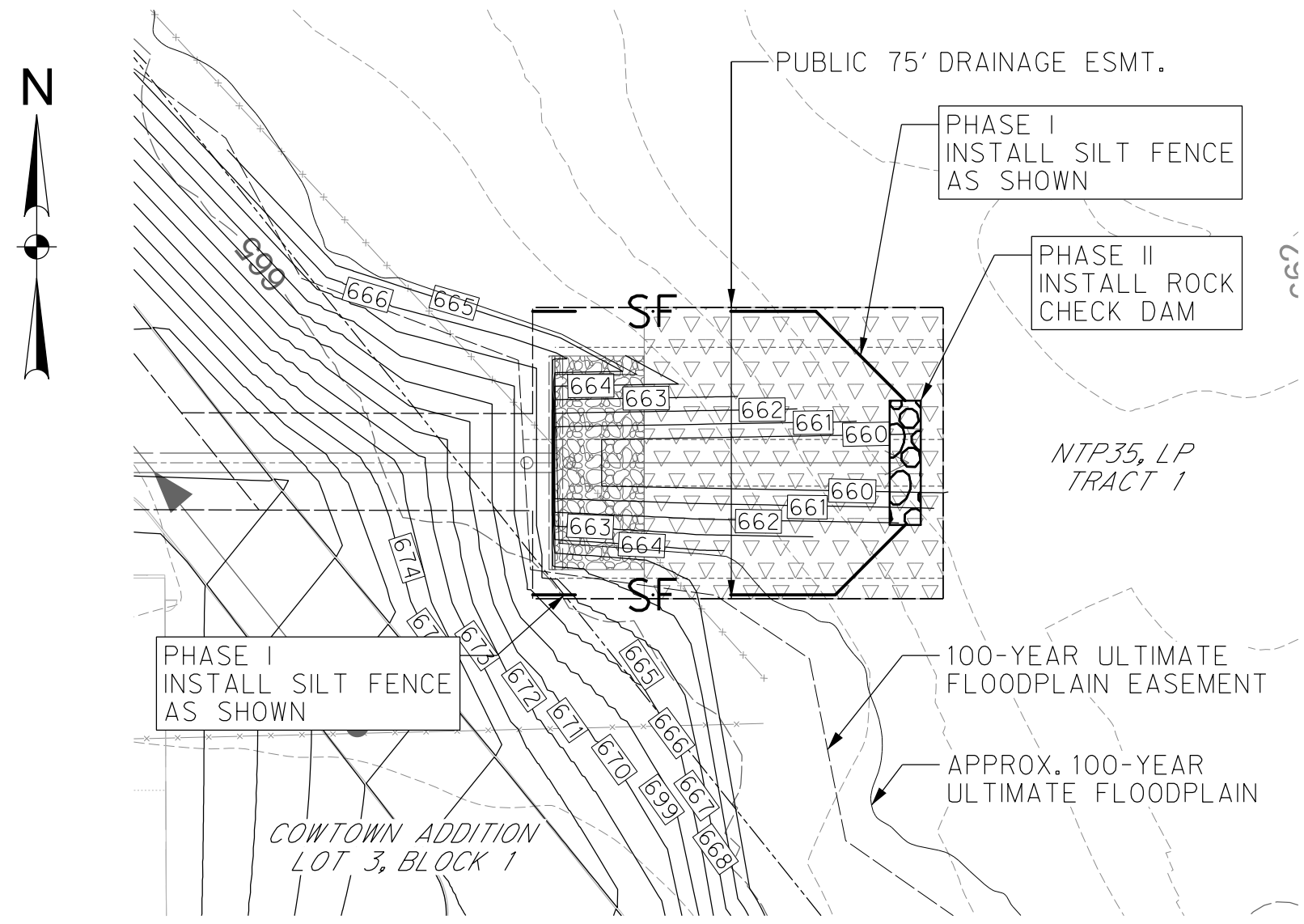
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NOTES:

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STORM DRAIN LINE B-1 OUTFALL



STORM DRAIN LINE B-2 OUTFALL

CONSTRUCTION PHASING

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- PHASE II SITE CLEARING, DEMOLITION, & GRADING EXCAVATION
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- PHASE IV GRADING & SITE UTILITIES
- PHASE V SITE PAVING, LANDSCAPE & IRRIGATION
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TOTAL AREA DISTURBED = 16.4 AC

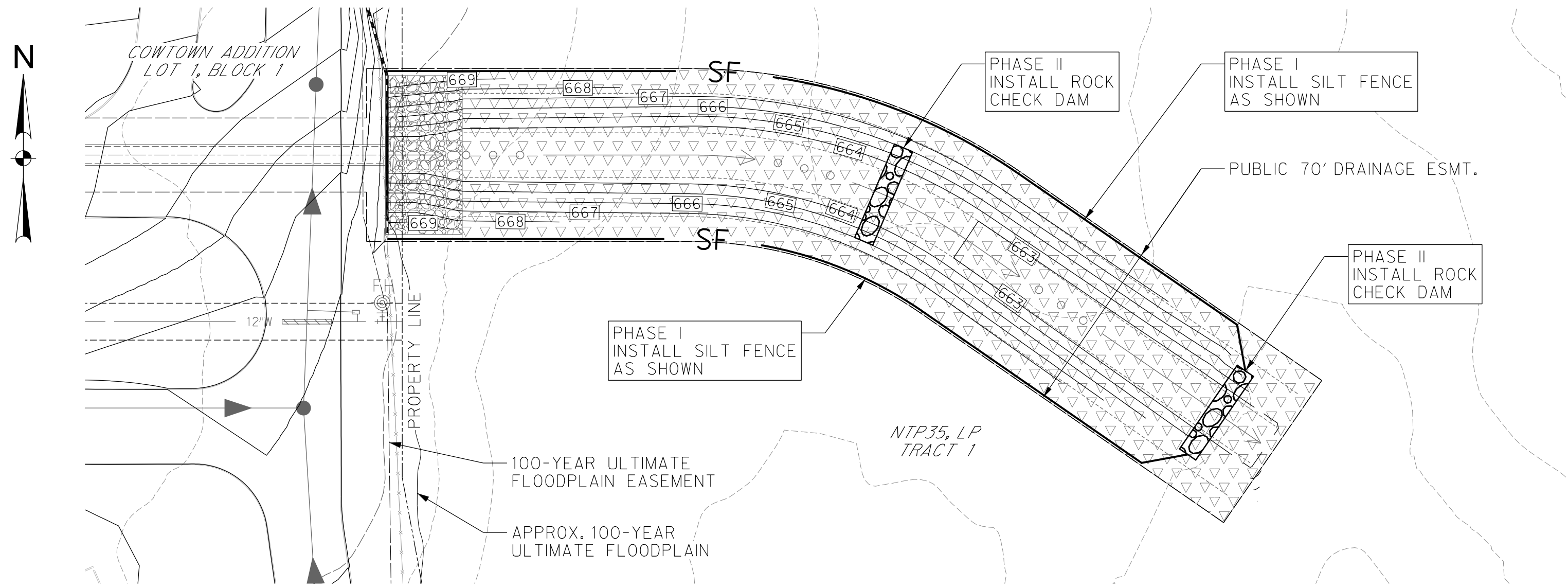
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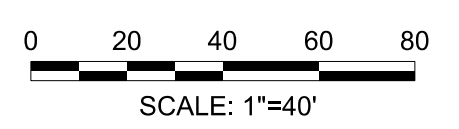
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STORM DRAIN LINE C-1 OUTFALL

REVISIONS

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ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
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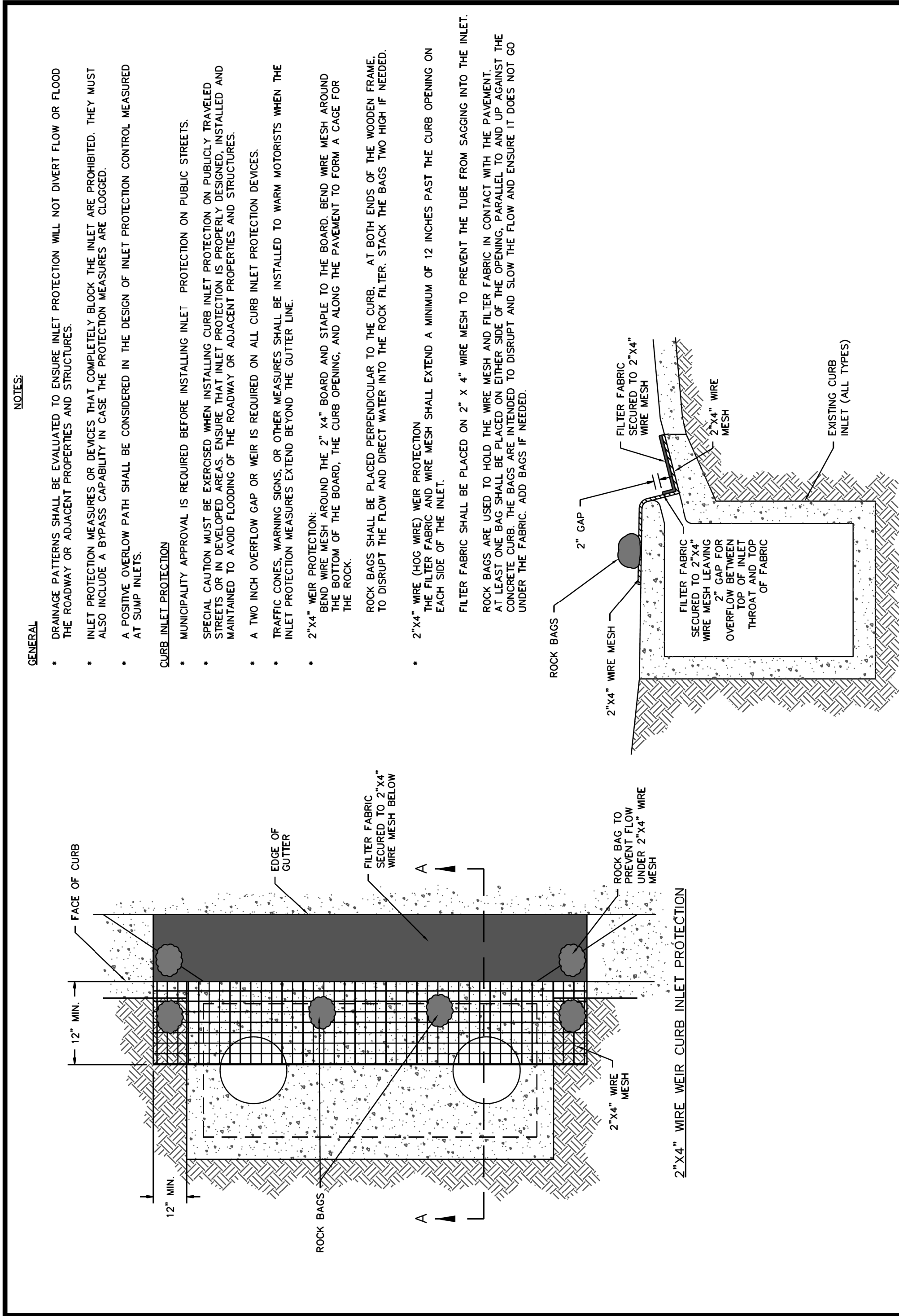
**CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES**

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

**EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
iSWM CONSTRUCTION
STORM DRAIN OUTFALLS**

PLAN

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 158 OF 189
DRAWN: PTS			



FORT WORTH

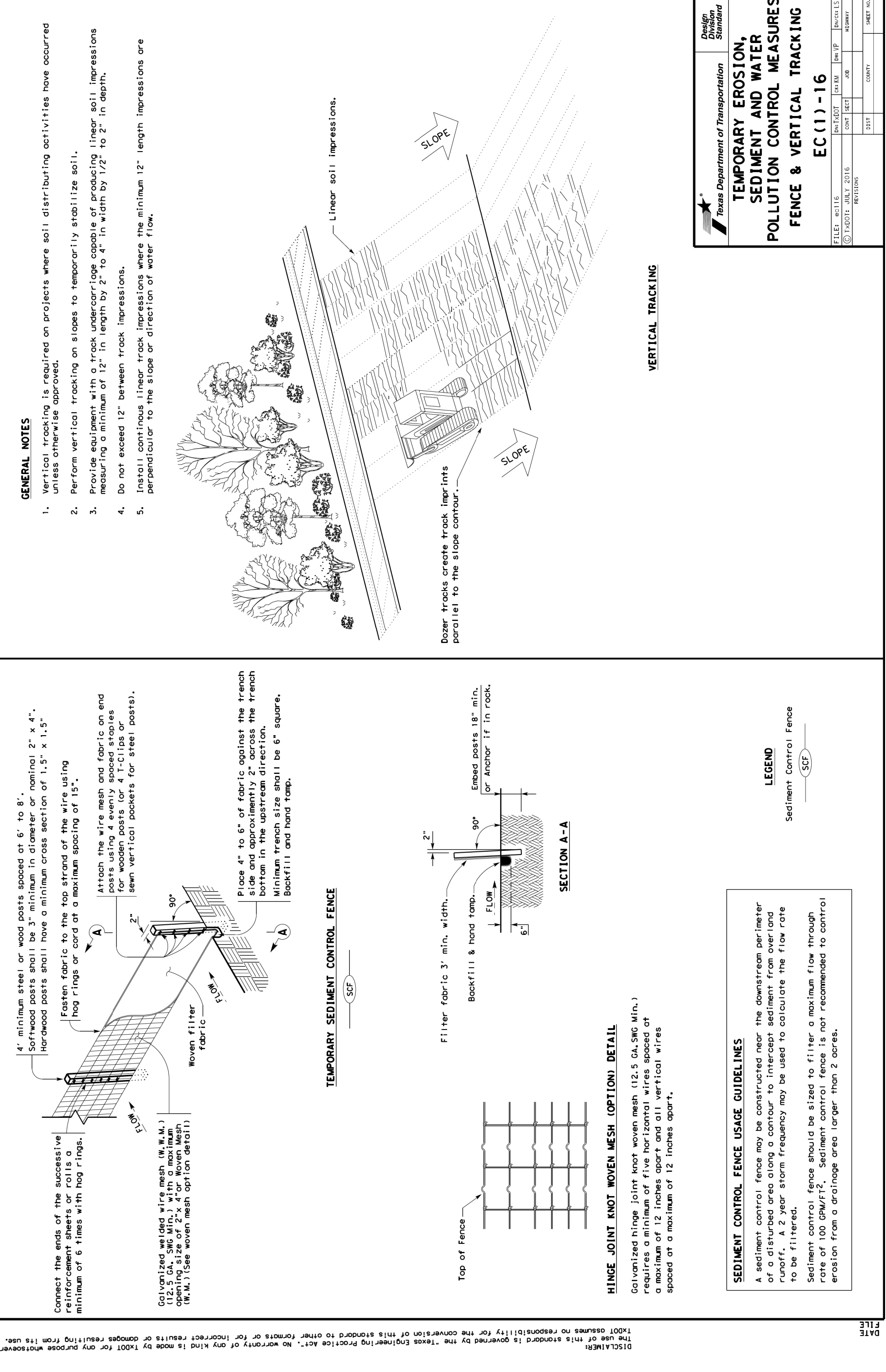
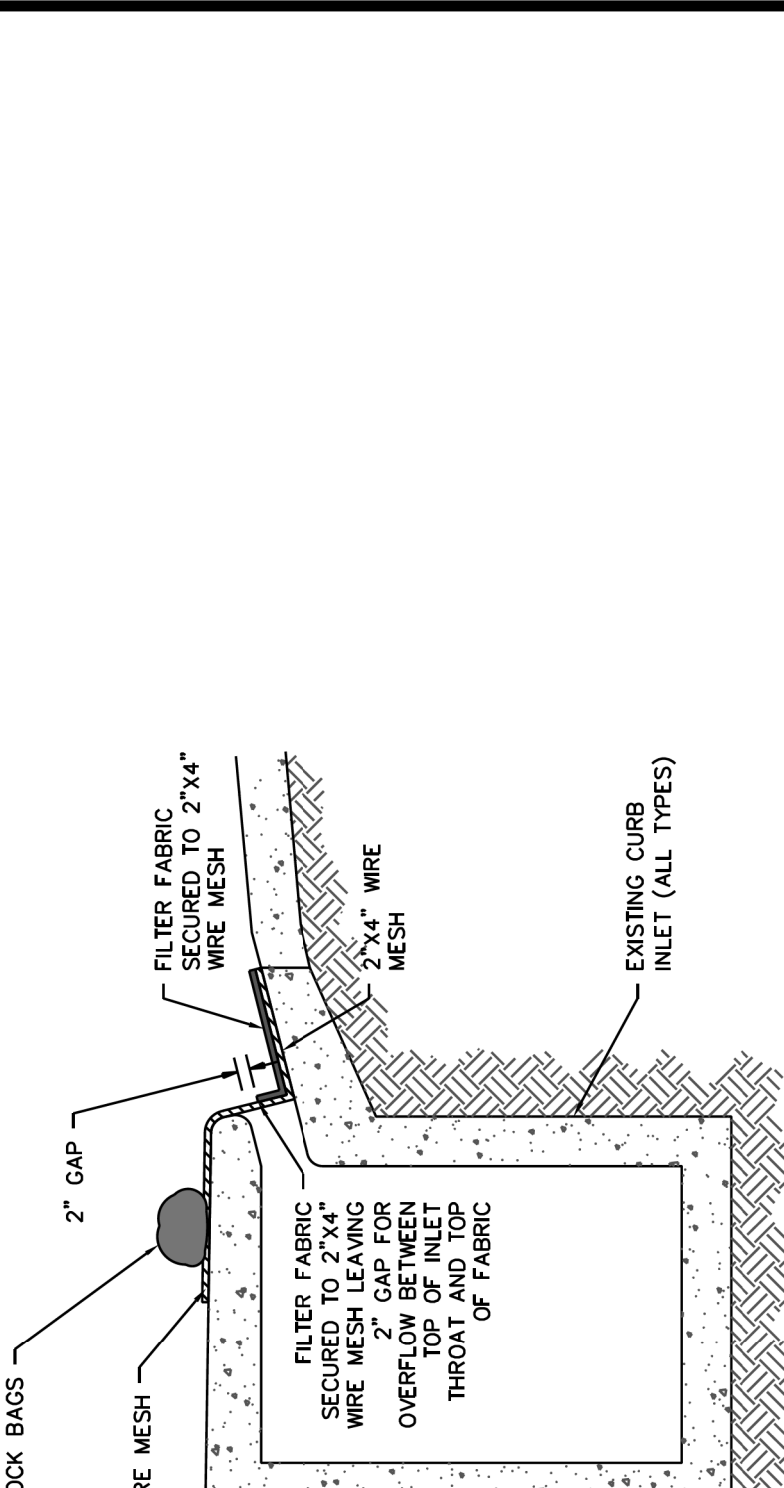
CITY OF FORT WORTH, TEXAS

2"X4" WIRE WEIR CURB INLET PROTECTION

REVISED 04-30-2021

01 57 13-D430

- GENERAL**
- DRAINAGE PATTERNS SHALL BE EVALUATED TO ENSURE INLET PROTECTION WILL NOT DIVERT FLOW OR FLOOD THE ROADWAY OR ADJACENT PROPERTIES AND STRUCTURES.
 - INLET PROTECTION MEASURES OR DEVICES THAT COMPLETELY BLOCK THE INLET ARE PROHIBITED. THEY MUST ALSO INCLUDE A BYPASS CAPABILITY IN CASE THE PROTECTION MEASURES ARE CLOGGED.
 - A POSITIVE OVERFLOW PATH SHALL BE CONSIDERED IN THE DESIGN OF INLET PROTECTION CONTROL MEASURED AT SUMP INLETS.
- CURB INLET PROTECTION**
- MUNICIPALITY APPROVAL IS REQUIRED BEFORE INSTALLING INLET PROTECTION ON PUBLIC STREETS.
 - SPECIAL CAUTION MUST BE EXERCISED WHEN INSTALLING CURB INLET PROTECTION ON PUBLICLY TRAVELED STREETS OR IN DEVELOPED AREAS. ENSURE THAT INLET PROTECTION IS PROPERLY DESIGNED, INSTALLED AND MAINTAINED TO AVOID FLOODING OF THE ROADWAY OR ADJACENT PROPERTIES AND STRUCTURES.
 - A TWO INCH OVERFLOW GAP OR WEIR IS REQUIRED ON ALL CURB INLET PROTECTION DEVICES.
 - TRAFFIC CONES, WARNING SIGNS, OR OTHER MEASURES SHALL BE INSTALLED TO WARN MOTORISTS WHEN THE INLET PROTECTION MEASURES EXTEND BEYOND THE GUTTER LINE.
 - 2"X4" WEIR PROTECTION: BEND WIRE MESH AROUND THE 2" X4" BOARD AND STAPLE TO THE BOARD. BEND WIRE MESH AROUND THE BOTTOM OF THE BOARD, THE CURB OPENING, AND ALONG THE PAVEMENT TO FORM A CAGE FOR THE ROCK.
 - ROCK BAGS SHALL BE PLACED PERPENDICULAR TO THE CURB. AT BOTH ENDS OF THE WOODEN FRAME, TO DISRUPT THE FLOW AND DIRECT WATER INTO THE ROCK FILTER. STACK THE BAGS TWO HIGH IF NEEDED.
 - 2"X4" WIRE (HOG WIRE) WEIR PROTECTION: THE FILTER FABRIC AND WIRE MESH SHALL EXTEND A MINIMUM OF 12 INCHES PAST THE CURB OPENING ON EACH SIDE OF THE INLET.
 - FILTER FABRIC SHALL BE PLACED ON 2" X 4" WIRE MESH TO PREVENT THE TUBE FROM SAGGING INTO THE INLET.
 - ROCK BAGS ARE USED TO HOLD THE WIRE MESH AND FILTER FABRIC IN CONTACT WITH THE PAVEMENT. AT LEAST ONE BAG SHALL BE LACED ON EITHER SIDE OF THE OPENING, PARALLEL TO AND UP AGAINST THE PAVEMENT. ADDITIONAL BAGS MAY BE USED TO DISRUPT AND SLOW THE FLOW AND ENSURE IT DOES NOT GO UNDER THE FABRIC. ADD BAGS IF NEEDED.



- GENERAL NOTES**
1. Vertical tracking is required on projects where soil distributing activities have occurred unless otherwise approved.
 2. Perform vertical tracking on slopes to temporarily stabilize soil.
 3. Apply the material with a minimum depth of 12 inches. Linear soil impressions measuring a minimum of 12" in length by 2" to 4" in width by 1/2" to 2" in depth.
 4. Do not exceed 12" between track impressions.
 5. Material softens linear track impressions when the minimum 12" length impressions are perpendicular to the slope or direction of water flow.
- Dozer tracks create track lines parallel to the slope contour.
- LEGEND**
- Sediment Control Fence
- (SCF)
- SEDIMENT CONTROL FENCE USAGE GUIDELINES**
- A sediment control fence may be constructed near the downstream perimeter of a site to temporarily control sediment during construction. The fence should be installed on a slope of 2:1 or flatter. A 2' gap from the fence to the slope may be used to stabilize the flow rate to be filtered.
- Sediment control fence should be sized to filter a maximum flow through rate of 100 gpm/ft². Sediment control fence is not recommended to control erosion from a drainage area larger than 2 acres.

State of Texas
Department of Transportation

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES FENCE & VERTICAL TRACKING EC (1) - 16

DATE: 04/11/2021	BY: JWB	CHK: JWB	APP: JWB
DATE: 07/20/21	BY: JWB	CHK: JWB	APP: JWB
DATE: 08/05/21	BY: JWB	CHK: JWB	APP: JWB

REVISIONS		
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HALFF
TBPE FIRM #F-312

3803 PARKWOOD BLVD., STE 800
FRISCO, TEXAS 75034-8840
(214) 217-6954

Joseph W. Buchanan

STATE OF TEXAS
LICENSED PROFESSIONAL ENGINEER
136549

08/05/21

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DOE # CITY PROJECT # 103320 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX MAP NO. XXXX-XXX		K-2840 MAPSCO NO. 119E AND 119F

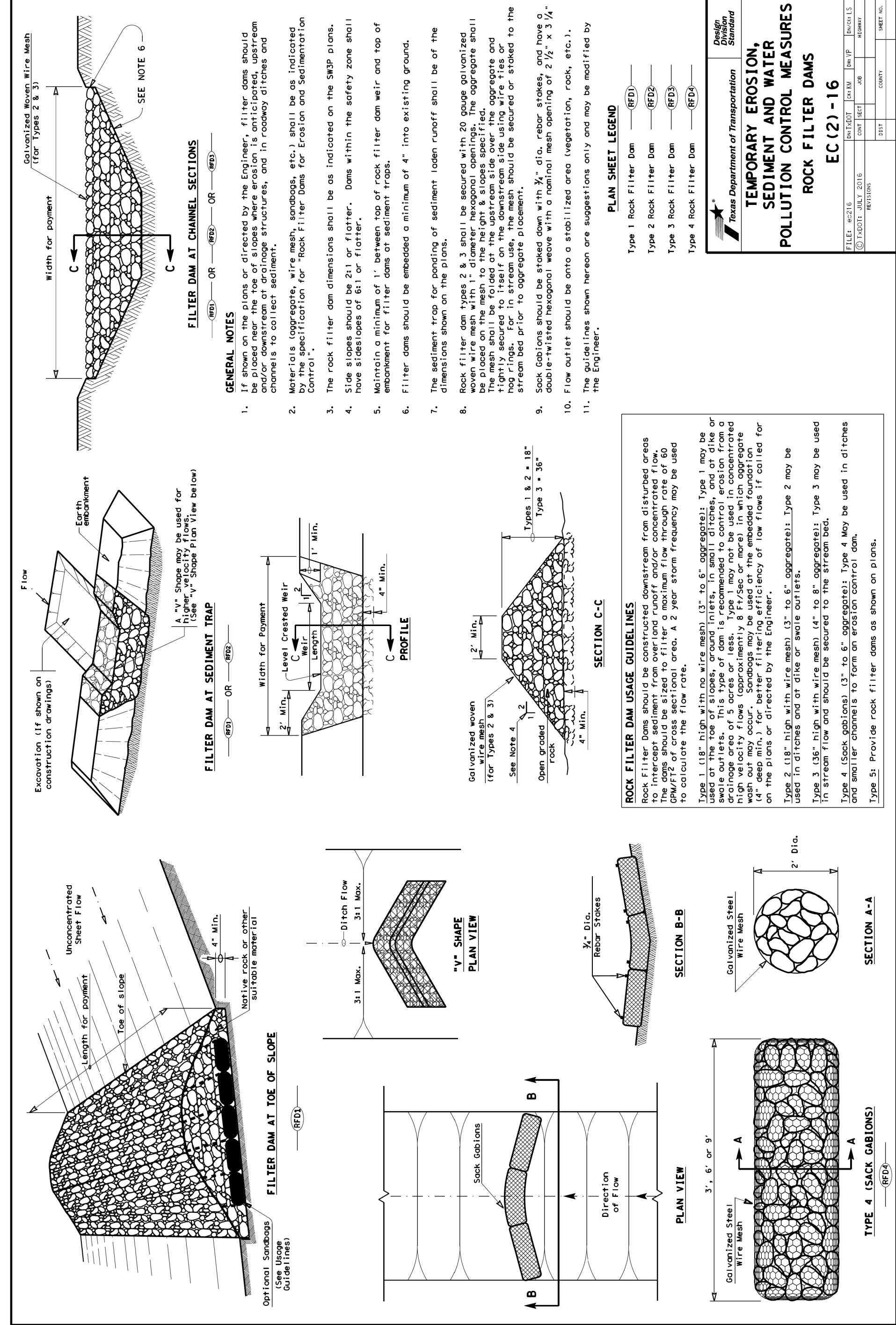
CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
EROSION CONTROL DETAILS
(SHEET 1 OF 3)

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 159 OF 189
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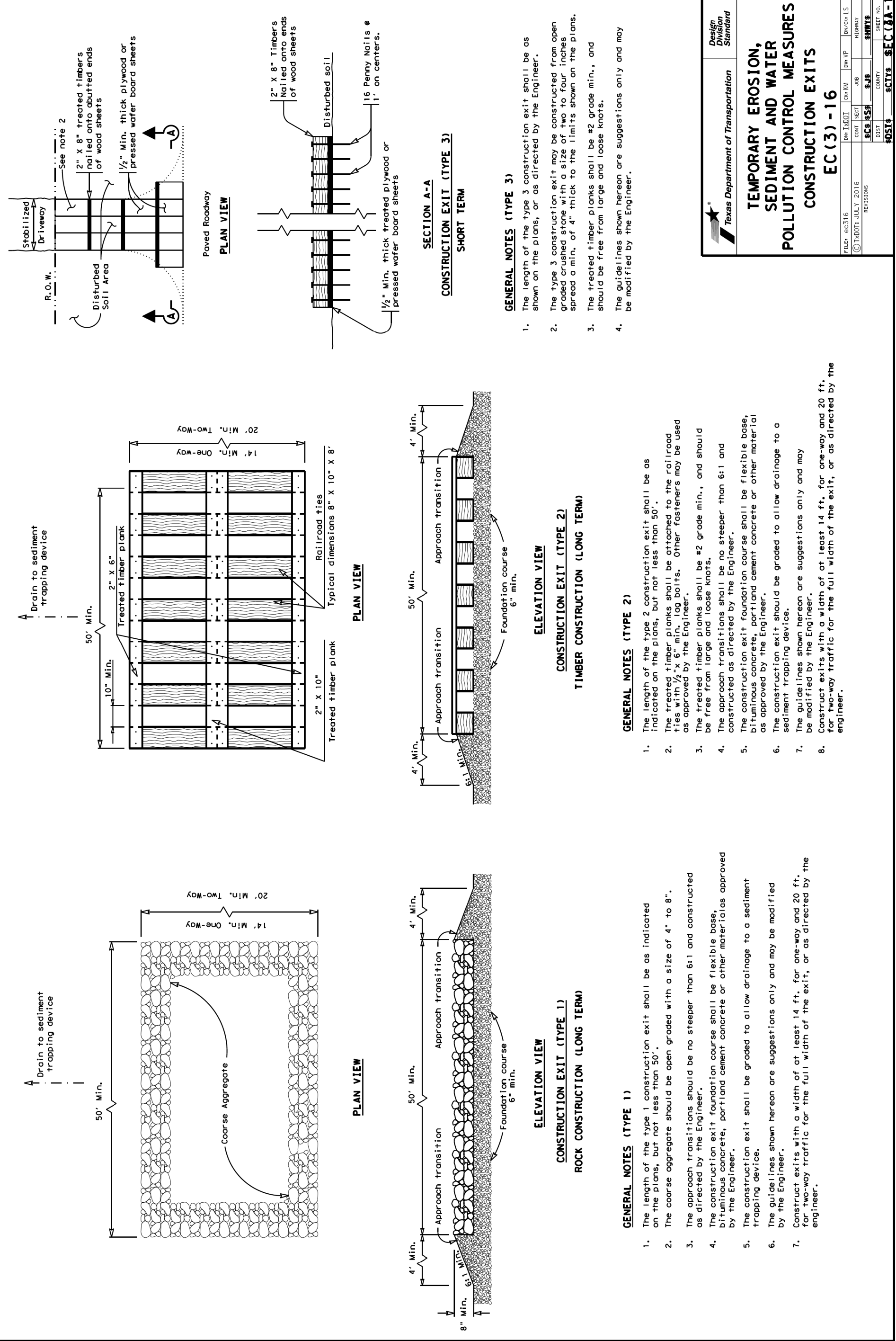
DISCLAIMER
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PLAN SHEET LEGEND

Type 1 Rock Filter Dam	(Symbol)
Type 2 Rock Filter Dam	(Symbol)
Type 3 Rock Filter Dam	(Symbol)
Type 4 Rock Filter Dam	(Symbol)

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES
ROCK FILTER DAMS
EC (2) - 16



PLAN SHEET LEGEND

Type 1 Construction Exit	(Symbol)
Type 2 Construction Exit	(Symbol)
Type 3 Construction Exit	(Symbol)

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES
CONSTRUCTION EXITS
EC (3) - 16

DISCLAIMER
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CONSTRUCTION NOTES

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AT&T 1-800-878-8711
FORT WORTH WATER DEPT.-FIELD OPERATIONS WATER (817) 925-2360
FORT WORTH WATER DEPT.-FIELD OPERATIONS SANITARY SEWER (817) 223-7438
FORT WORTH WATER DEPT.-FIELD OPERATIONS LOCATE (817) 392-6296
FORT WORTH T&PW (817) 871-8100
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ONCOR GAS & ELECTRIC (817) 215-6214
TXU ENERGY 1-800-233-2133
SBC TELEPHONE (817) 338-6819
CHARTER COMM. (817) 509-6272 EXT. 3363
ALL OTHER FACILITIES 1-800-DIG-1TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
MAP NO. XXXX-XXX

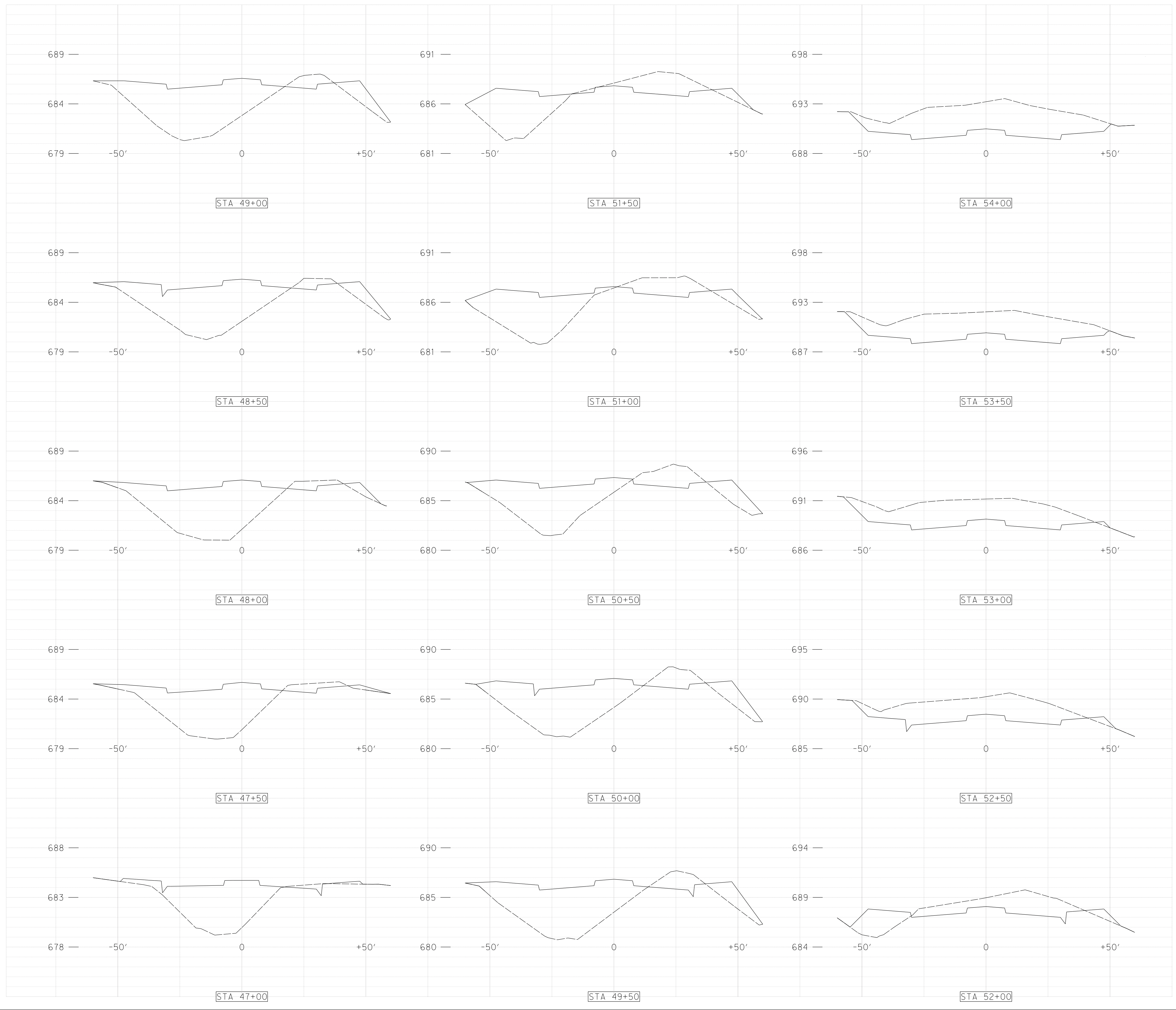
CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
EROSION CONTROL DETAILS
(SHEET 2 OF 3)

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 160 OF 189
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 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
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N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
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DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO.
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT
 SERVICES**

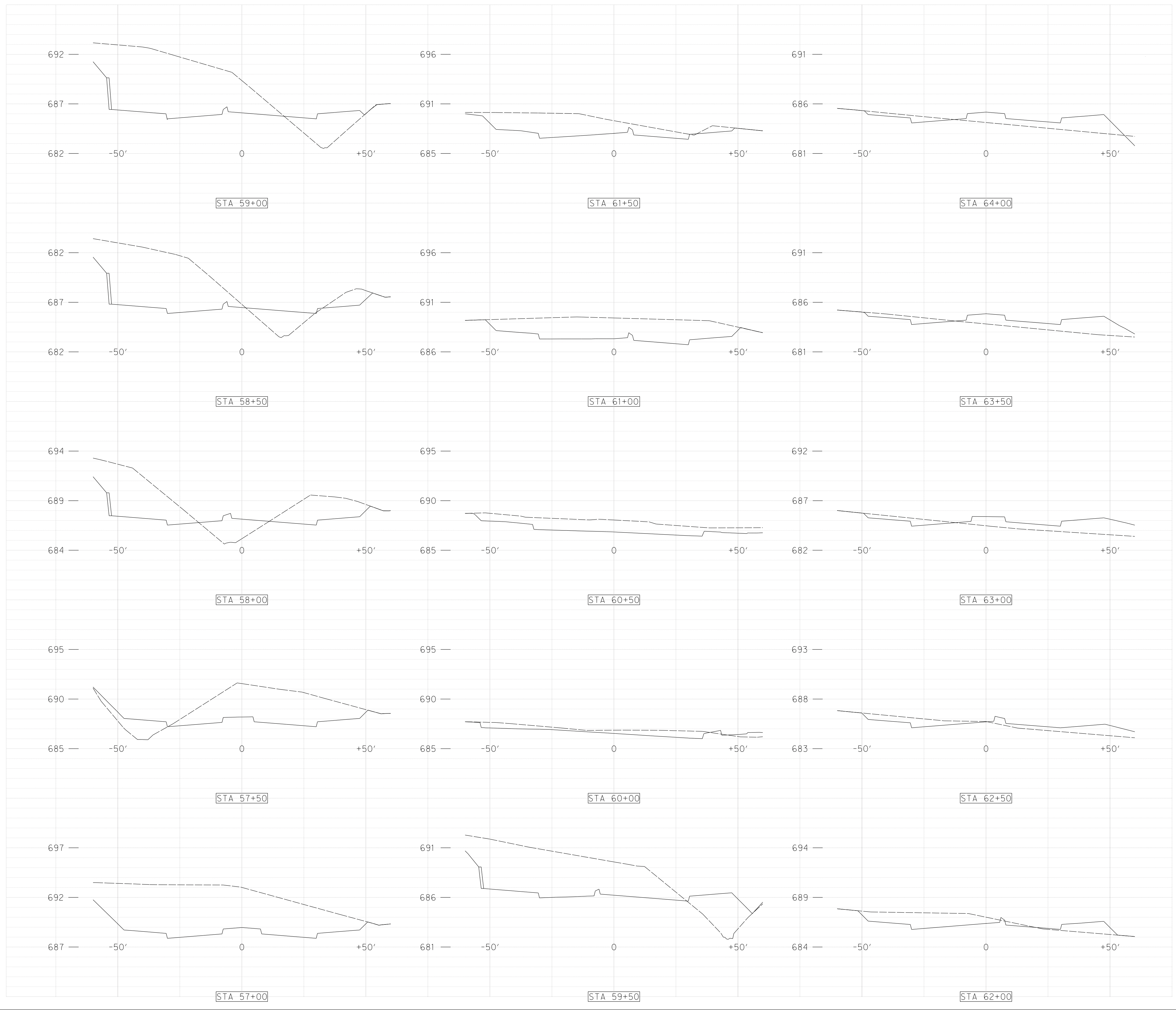
**TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 PAVING CROSS SECTIONS
 (SHEET 1 OF 5)**

BAILEY BOSWELL ROAD

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 TXU ENERGY 1-800-233-2133
 SBC TELEPHONE (817) 338-6819
 CHARTER COMM. (817) 509-6272 EXT. 3363
 ALL OTHER FACILITIES 1-800-DIG-TESS

HORIZONTAL & VERTICAL CONTROL

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DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
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 MAP NO. XXXX-XXX

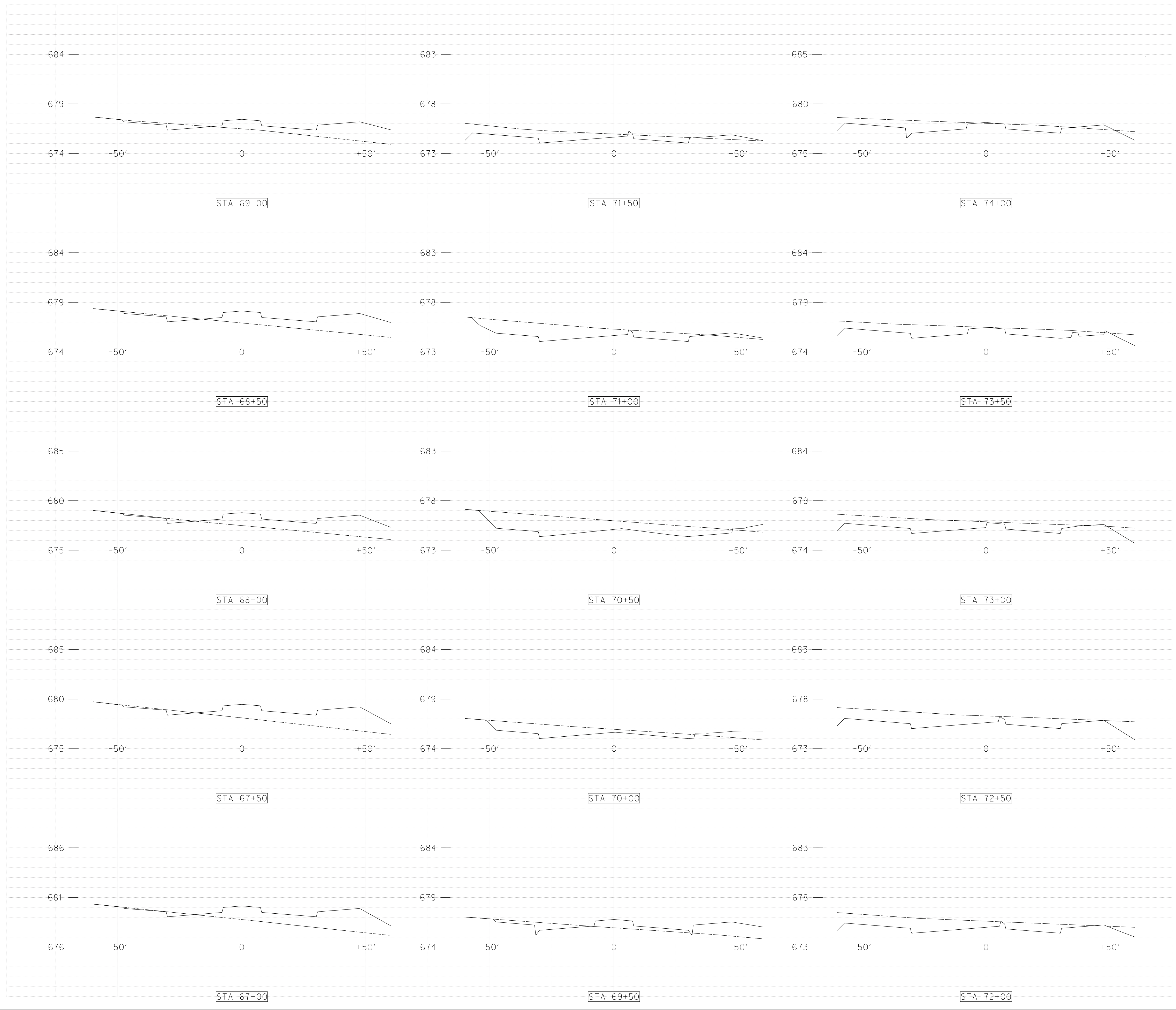
**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 PAVING CROSS SECTIONS
 (SHEET 2 OF 5)**

BAILEY BOSWELL ROAD

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HORIZONTAL & VERTICAL CONTROL

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DOE # K-2840
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 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX 119E AND 119F
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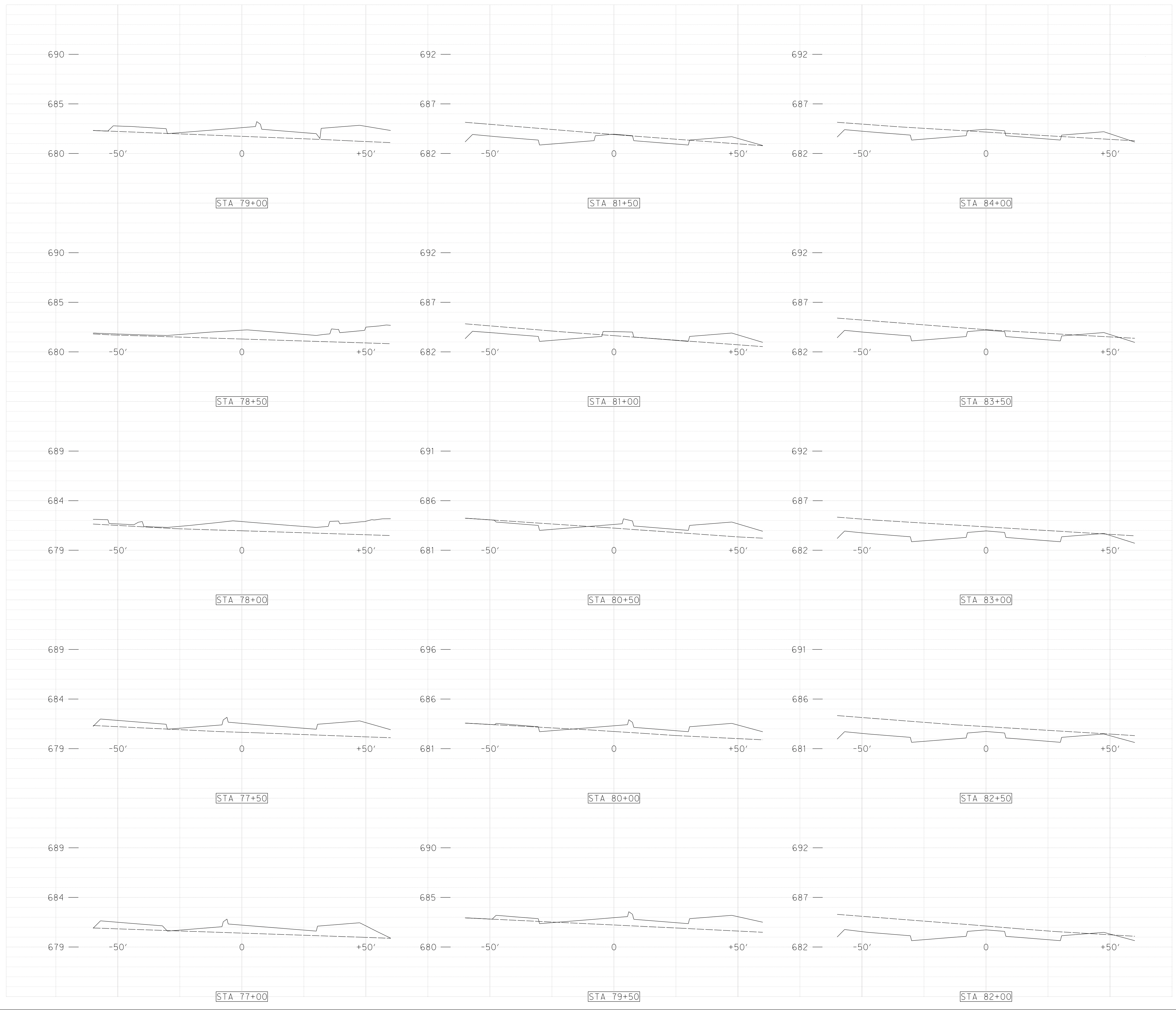
**CITY OF FORT WORTH, TEXAS
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**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 PAVING CROSS SECTIONS
 (SHEET 3 OF 5)**

BAILEY BOSWELL ROAD

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DOE # K-2840
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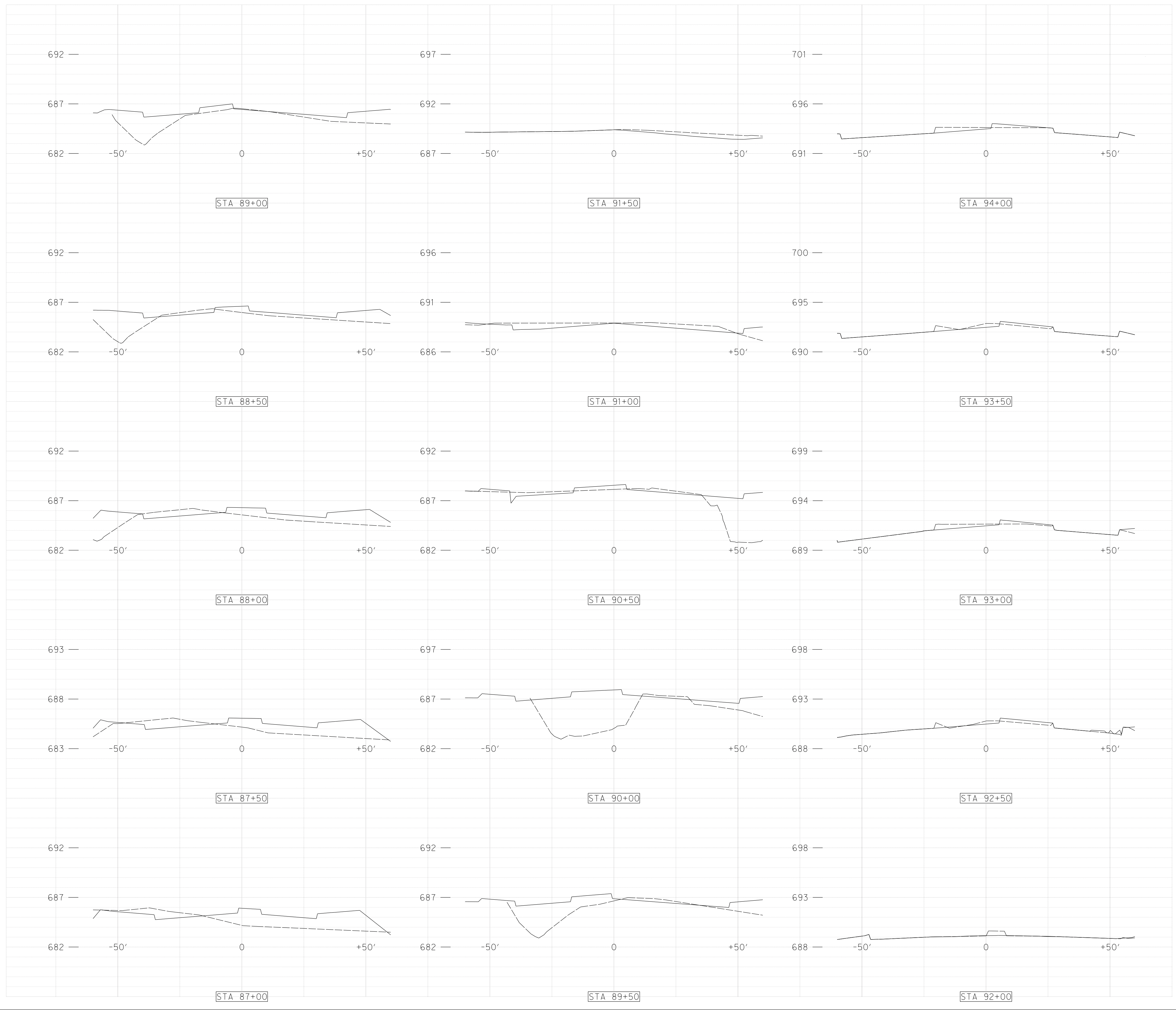
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**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 PAVING CROSS SECTIONS
 (SHEET 4 OF 5)**

BAILEY BOSWELL ROAD

DESIGNED: TMW	SCALE: PTS	DATE: 06/08/2021	SHEET 165 OF 189
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EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
PAVING CROSS SECTIONS
(SHEET 5 OF 5)

BAILEY BOSWELL ROAD

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