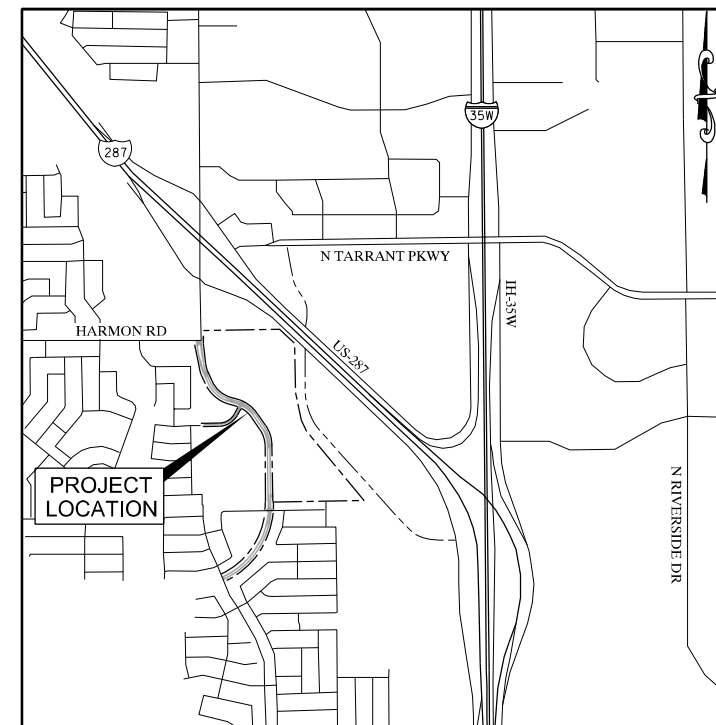




THE CITY OF FORT WORTH, TEXAS PLANS FOR THE CONSTRUCTION OF WATER, SEWER, PAVING, DRAINAGE, & STREET LIGHT IMPROVEMENTS TO SERVE EAST BAILEY BOSWELL ROAD

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

Victor V. Tornero Jr., P.E.
Victor V. Tornero Jr., P.E. (Aug 5, 2021 17:11 CDT)

Aug 5, 2021

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

Patrick Buckley
Patrick Buckley (Aug 5, 2021 13:20 CDT)

Aug 5, 2021

REVIEWED: DATE:
PROJECT MANAGER

AUGUST 2021

SHEET INDEX

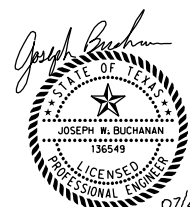
SHEET NO.	DESCRIPTION
1	COVER SHEET
2-4	DRAFT HORIZONTAL CONTROL PLAN
UNIT I: WATER AND SANITARY SEWER IMPROVEMENTS	
5	GENERAL NOTES WATER & SANITARY SEWER
6	PROJECT LAYOUT WATER
7	WATERLINE 'A' PLAN & PROFILE BEGIN TO STA 5+00
8	WATERLINE 'A' PLAN & PROFILE STA 5+00 TO STA 12+00
9	WATERLINE 'A' PLAN & 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
26	SANITARY SEWER LINE 'C' PLAN & PROFILE BEGIN TO STA 7+00
27	SANITARY SEWER LINE 'C' PLAN & PROFILE STA 7+00 TO END
28-43	WATER & SANITARY SEWER DETAILS
UNIT II: PAVING AND DRAINAGE IMPROVEMENTS	
44-45	GENERAL NOTES GENERAL CONSTRUCTION
46	PROJECT LAYOUT PAVING & GRADING
47	HORIZONTAL ALIGNMENT
48-49	TYPICAL SECTIONS
50-53	REMOVAL PLAN
54	PAVING PLAN & PROFILE BEGIN TO STA 51+00
55	PAVING PLAN & PROFILE STA 51+00 TO STA 58+00
56	PAVING PLAN & PROFILE STA 58+00 TO STA 66+00
57	PAVING PLAN & PROFILE STA 66+00 TO STA 73+00
58	PAVING PLAN & PROFILE STA 73+00 TO STA 80+00
59	PAVING PLAN & PROFILE STA 80+00 TO STA 87+00
60	PAVING PLAN & PROFILE STA 87+00 TO END
61	PAVING PLAN & PROFILE CRESTED BUTTE DRIVE
62	RETAINING WALL '1' PLAN & PROFILE
63-64	RETAINING WALL DETAILS
65	REMOVAL DETAILS
66-75	CONCRETE PAVING DETAILS
76	GRADING PLAN BEGIN TO STA 58+00
77	GRADING PLAN STA 58+00 TO STA 73+00
78	GRADING PLAN STA 73+00 TO STA 87+00
79	GRADING PLAN STA 87+00 TO END
80	GRADING PLAN CRESTED BUTTE DRIVE
81	GRADING PLAN OLD PECOS INTERSECTION
82	EXISTING DRAINAGE AREA MAP
83	PROPOSED DRAINAGE AREA MAP BEGIN TO STA 59+00
84	PROPOSED DRAINAGE AREA MAP STA 59+00 TO STA 83+50
85	PROPOSED DRAINAGE AREA MAP STA 83+50 TO END
86	PROPOSED DRAINAGE AREA MAP SITE DRAINAGE
87	INLET CALCULATIONS
88-89	HYDRAULIC CALCULATIONS
90	PROJECT LAYOUT STORM DRAIN
91	STORM DRAIN PLAN PLAN & PROFILE BEGIN TO STA 51+00
92	STORM DRAIN PLAN PLAN & PROFILE STA 51+00 TO STA 58+00
93	STORM DRAIN PLAN PLAN & PROFILE STA 58+00 TO STA 66+00
94	STORM DRAIN PLAN PLAN & PROFILE STA 66+00 TO STA 73+00
95	STORM DRAIN PLAN PLAN & PROFILE STA 73+00 TO STA 80+00
96	STORM DRAIN PLAN PLAN & PROFILE STA 80+00 TO STA 87+00
97	STORM DRAIN PLAN PLAN & PROFILE STA 87+00 TO END
98	STORM DRAIN PLAN PLAN & PROFILE CRESTED BUTTE DRIVE - LINE D
99	STORM DRAIN PLAN PLAN & PROFILE LINE B-1 - BEGIN TO STA 10+00
100	STORM DRAIN PLAN PLAN & PROFILE LINE B-1 - STA 10+00 TO END
101	STORM DRAIN PLAN PLAN & PROFILE LINE B-2
102	STORM DRAIN PLAN PLAN & PROFILE LINE C-1 - BEGIN TO STA 9+50
103	STORM DRAIN PLAN PLAN & PROFILE LINE C-1 - STA 9+50 TO END
104-107	STORM DRAIN LATERALS
108-118	STORM DRAIN DETAILS
119-122	PAVEMENT MARKINGS & SIGNAGE PLAN EAST BAILEY BOSWELL ROAD
123	PAVEMENT MARKINGS & SIGNAGE PLAN CRESTED BUTTE DRIVE
124-129	PAVEMENT MARKING DETAILS
130	TRAFFIC CONTROL PLAN HORSEMAN ROAD & OLD PECOS TRAIL
131-132	TRAFFIC CONTROL PLAN HARMON ROAD INTERSECTION
133	TRAFFIC CONTROL PLAN OLD PECOS DETOUR
134-140	TRAFFIC CONTROL DETAILS
141-144	ROADWAY LIGHTING PLAN
145-146	ROADWAY LIGHTING TABLES
147-151	ROADWAY LIGHTING DETAILS
152	GENERAL NOTES ISWM CONSTRUCTION
153-156	ISWM CONSTRUCTION PLAN EAST BAILEY BOSWELL ROAD
157	ISWM CONSTRUCTION PLAN CRESTED BUTTE DRIVE
158	ISWM CONSTRUCTION PLAN STORM DRAIN OUTFALLS
159-161	EROSION CONTROL DETAILS
162-166	PAVING CROSS SECTIONS
167	TRAFFIC SIGNAL GENERAL NOTES
168-172	PROPOSED SIGNAL LAYOUTS
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



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 07/29/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034. TBPELS Engineering Firm #312

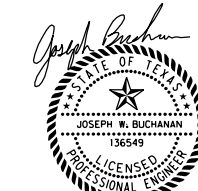
IPRC RECORD NO. IPRC21-0050
CITY PROJECT NO. 103320
FID NO. 30114-0200431-103320-E07685
FILE NO. K-2840

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



TBPE FIRM #F-312
3803 PARKWOOD BLVD., STE 800
FRIISCO, TEXAS 75034-8640
(214) 217-8994



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBPELS Engineering Firm #312

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) 392-8296
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

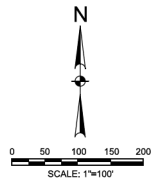
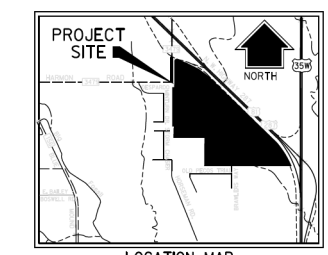
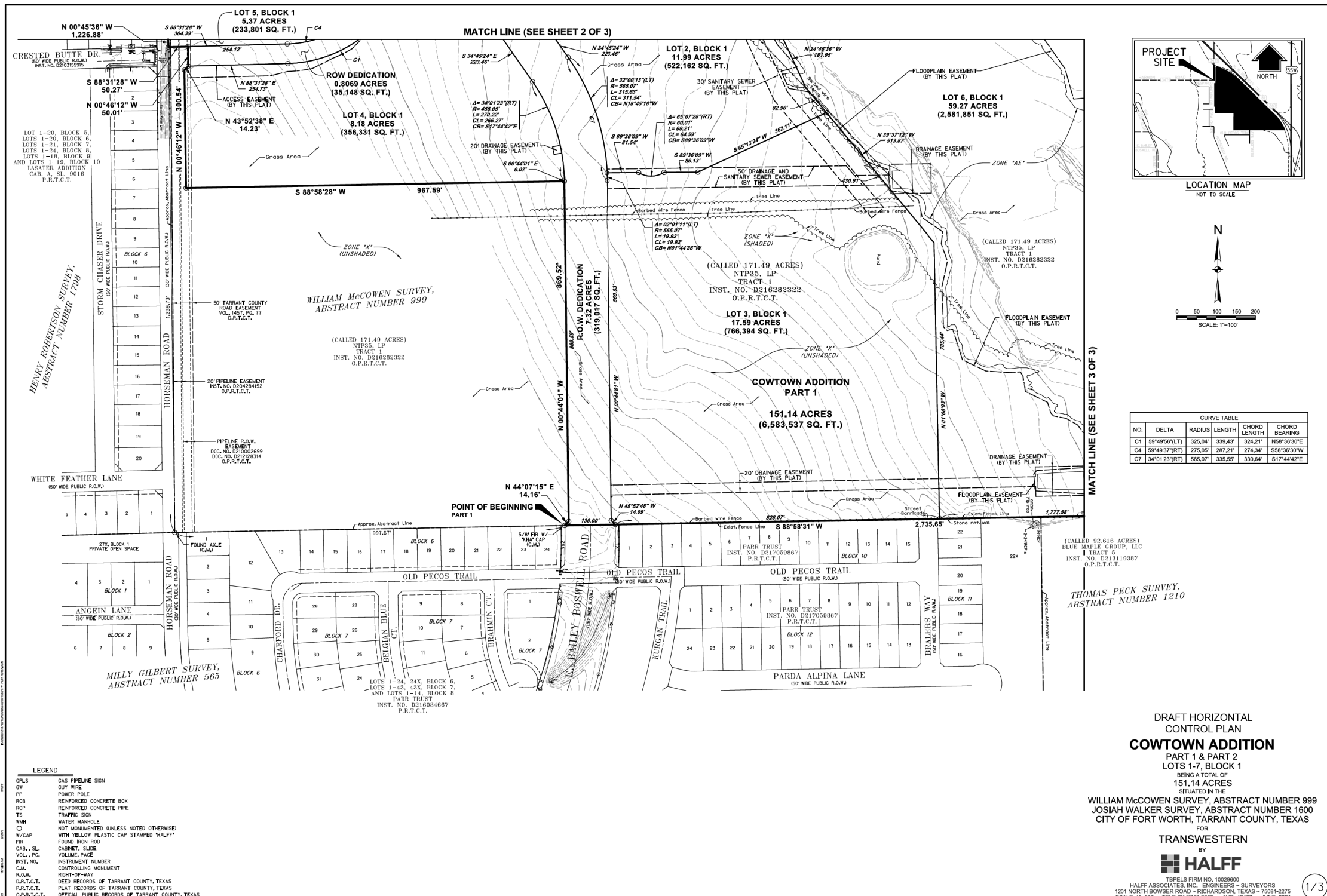
DOE # K-2840
CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
MAP NO. XXXX-XXX

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
---------------	---------------	------------------	----------------



CURVE TABLE

NO.	DELTA	RADIUS	LENGTH	CHORD LENGTH	CHORD BEARING
C1	59°49'56"(LT)	325.04'	339.43'	324.21'	N58°36'30"E
C4	59°49'37"(RT)	275.00'	287.21'	274.34'	S58°36'30"W
C7	34°01'23"(RT)	565.07'	335.55'	330.64'	S17°44'42"E

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 AVG. 42487 JUNE, 2021

1/3

LEGEND

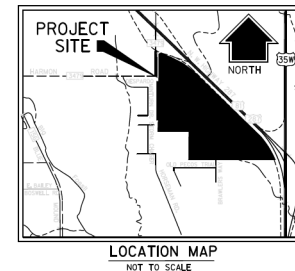
GPLS	GAS PIPELINE SIGN
OW	GUY WIRE
PP	POWER POLE
RCB	REINFORCED CONCRETE BOX
RCF	REINFORCED CONCRETE PIPE
TS	TRAFFIC SIGN
WHH	WATER MANHOLE
O	NOT MONUMENTED (UNLESS NOTED OTHERWISE)
#/CAP	NTH YELLOW PLASTIC CAP STAMPED 'HALFF'
FR	FOUND IRON ROD
CAB., SL.	CABINET, SLIDE
VOL., P.C.	VOLUME PAGE
INST. NO.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

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



TBPEL FIRM #312
3803 PARKWOOD BLVD., STE 800
FRISSCO, TEXAS 75034-8640
(214) 217-8994



LEGEND

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

LINE TABLE

NO.	BEARING	DIST.
L1	N26°41'32"E	105.20'
L2	N73°41'33"E	30.00'
L3	S16°18'22"E	30.00'
L4	S28°41'32"W	98.81'
L5	S45°30'55"E	28.40'
L6	S00°45'30"E	165.64'
L7	N11°12'59"W	105.50'
L8	N89°43'46"E	8.17'
L9	S89°43'46"W	60.00'

CURVE TABLE

NO.	DELTA	RADIUS	LENGTH	CHORD LENGTH	CHORD BEARING
C1	59°49'56"(L)	275.05'	287.21'	274.34'	N59°36'30"E
C2	24°38'48"(R)	455.05'	185.88'	194.37'	N47°05'18"W
C3	03°27'40"(R)	455.05'	27.49'	27.48'	S72°50'19"E
C4	59°49'37"(R)	275.05'	287.21'	274.34'	S59°36'30"W
C5	39°48'40"(L)	455.05'	316.19'	309.87'	N54°39'44"W
C6	39°48'41"(R)	565.07'	392.63'	384.78'	S54°39'44"E
C8	11°41'13"(R)	455.05'	92.82'	92.66'	S65°15'48"E
C9	08°23'09"(R)	565.07'	82.70'	82.63'	N07°01'25"W

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. 10029800
HALFF ASSOCIATES, INC. ENGINEERS - SURVEYORS
1201 NORTH BOSWELL ROAD - RICHARDSON, TEXAS - 75081-4275
SCALE: 1"=100' TELE: (214) 346-6200 AVO. 42467 JUNE, 2021



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/08/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBPELS Engineering Firm #312

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.
NOTE: 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-XXXXX-XXXXXXXXXX
WATER PROJECT # PXXX-XXXXX-XXXXXXXXXX
SEWER PROJECT # PXXX-XXXXX-XXXXXXXXXX
MAP NO. XXXX-XXX

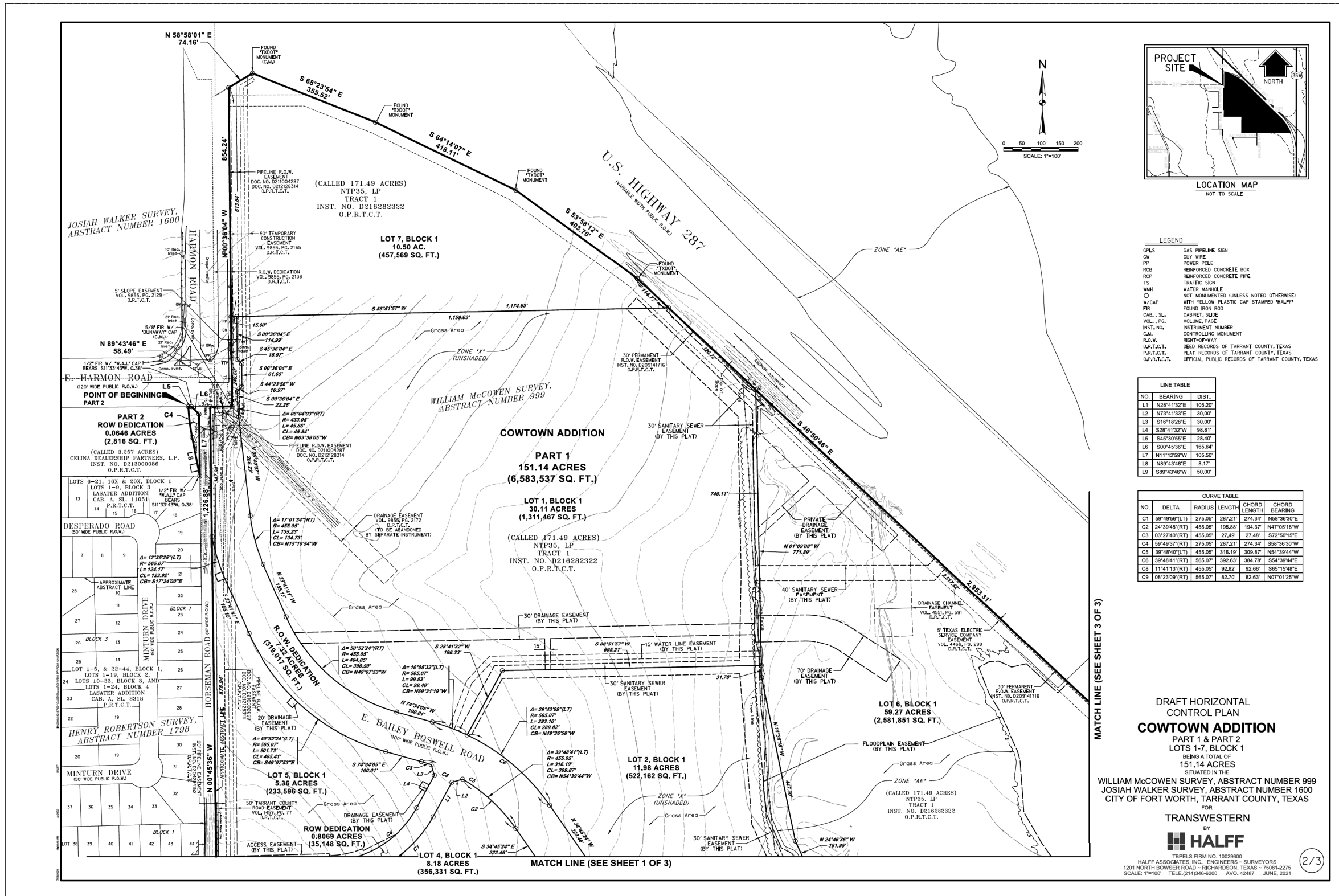
CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

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

PLAN

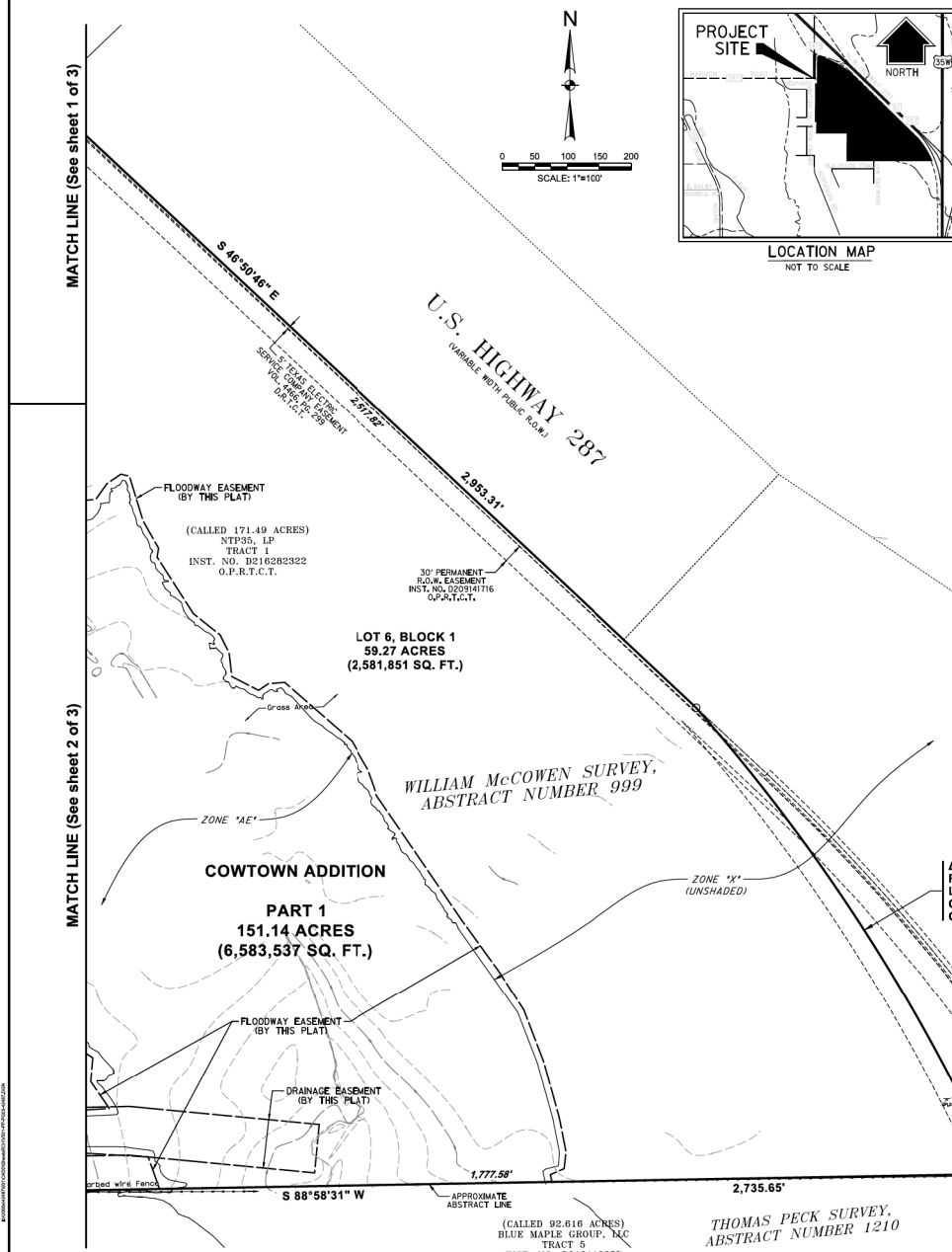
DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 3 OF 189
DRAWN: PTS			



8/5/2021 5:12:47 PM I:\420008\42487\001\CADD\Sheets\FRCP\Public Improvements Sheets\C003-DHCP-42487.dgn

REVISIONS

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



OWNER'S CERTIFICATE STATE OF TEXAS COUNTY OF TARRANT PART 1 BEING A 151.14 acre tract of land situated in the William McCowen Survey, Abstract Number 999...

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...

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...



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.

HORIZONTAL & VERTICAL CONTROL

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

DOE # CITY PROJECT # 103320 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX MAP NO. XXXX-XXX

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

NOTES: 1. The Basis of Bearing is the Texas Coordinate System of 1983, North Central Zone (4202). All distances shown herein are surface distances. Surface Adjustment Scale Factor (Tarrant County) 1.00012.

LEGEND: C/P/S GAS PIPELINE SIGN, OF GUY WIRE, PP POWER POLE, RCB REINFORCED CONCRETE BOX, RCP REINFORCED CONCRETE PIPE, TS TRAFFIC SIGN, WMH WATER MANHOLE, O NOT MONUMENTED UNLESS NOTED OTHERWISE, W/CAP WITH YELLOW PLASTIC CAP STAMPED 'HALFF', FRI FOUND IRON ROD, V/L, P/L VOLUME PAGE, INST. NO. INSTRUMENT NUMBER, C/M CONTROLLING MONUMENT, R/W RIGHT-OF-WAY, D.R.T.C.T. DEED RECORDS OF TARRANT COUNTY, TEXAS, P.L.R.C.T. PLAT RECORDS OF TARRANT COUNTY, TEXAS, O.P.R.T.C.T. OFFICIAL PUBLIC RECORDS OF TARRANT COUNTY, TEXAS

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 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.

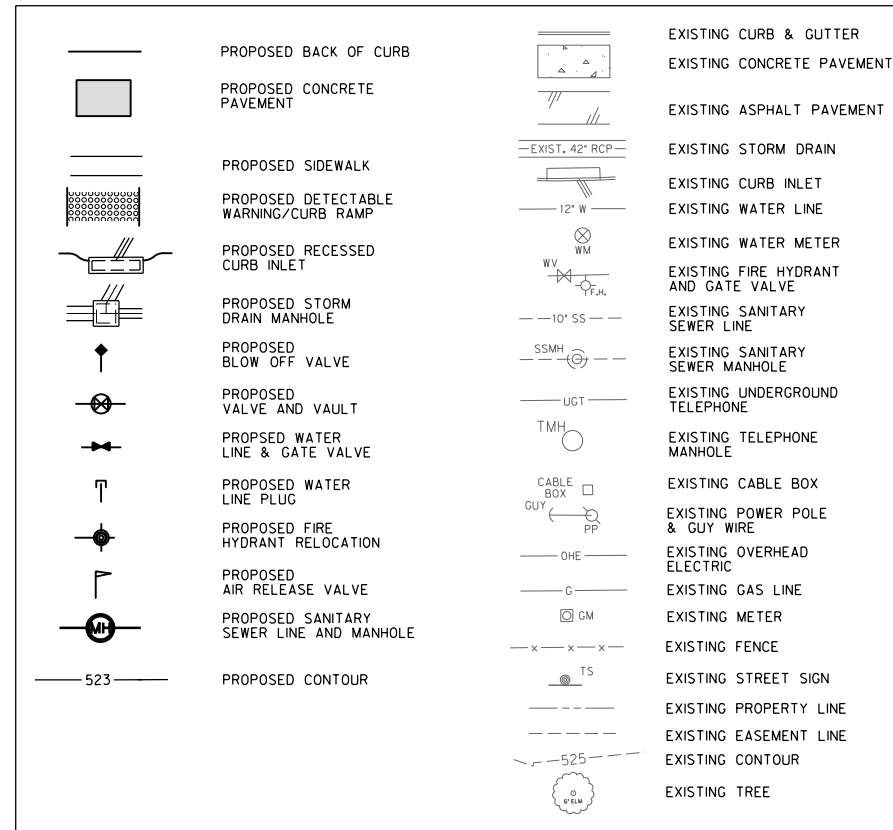
WATER GENERAL NOTES

- 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

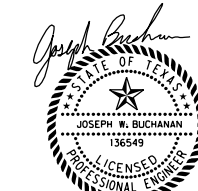
- VERIFY THAT ALL CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE FOR SANITARY SEWER ONLY. NOTIFY CITY OF ANY DISCOVERED ILLICIT CONNECTIONS.
- THE CONTRACTOR SHALL BE LIABLE FOR ALL DAMAGES TO PROPERTIES, HOMES, AND BASEMENTS FROM BACKUP, WHICH MAY RESULT DURING THE INSTALLATION OF NEW PIPE AND/OR ABANDONMENT 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		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TBPELS Engineering Firm #312

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) 392-8296
 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

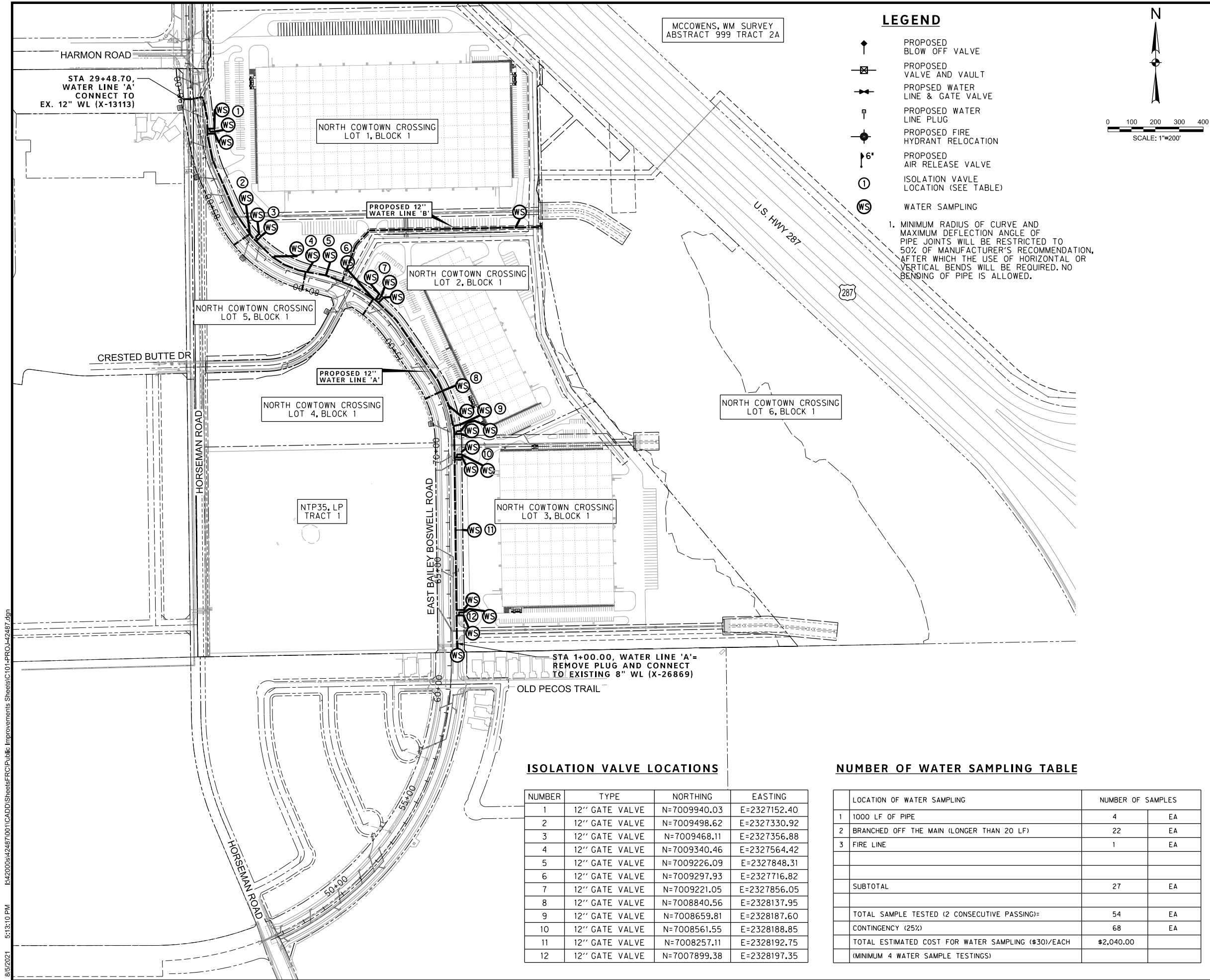
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO.
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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

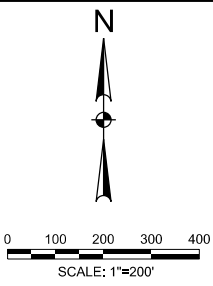
DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 5 OF 189
DRAWN: PTS			



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
 - ⓪ 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
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBPEIS Engineering Firm #312.

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) 392-8296
 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-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
PROJECT LAYOUT

WATER

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

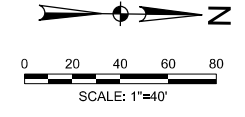
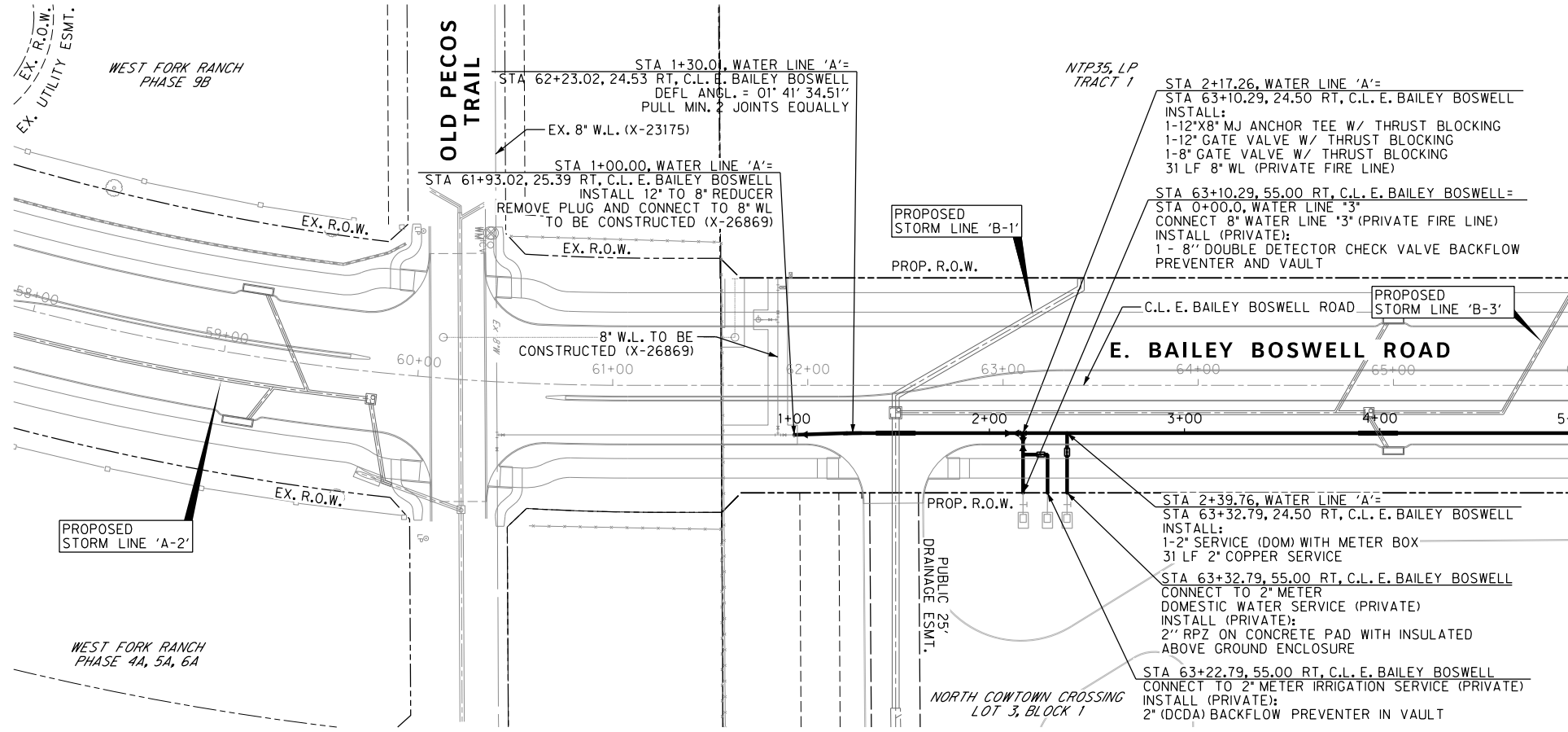
ISOLATION VALVE LOCATIONS

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

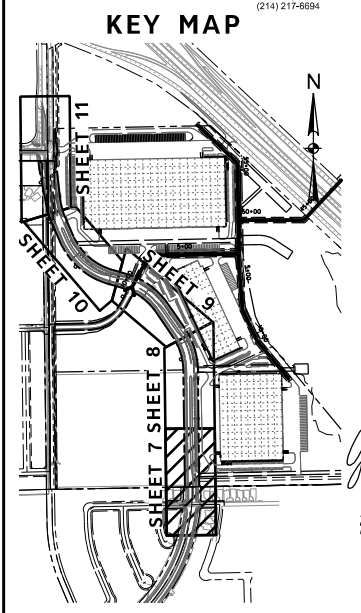
NUMBER OF WATER SAMPLING TABLE

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	

8/5/2021 5:13:10 PM I:\420086\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C101-PROJ-42487.dgn



REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/08/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TBPELS Engineering Firm #312

WATER LINE 'A'

MATCH LINE - STA 5+00

MATCH LINE - STA 5+00

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'

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) 392-8296
 FORT WORTH T&P (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

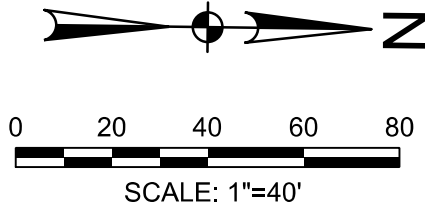
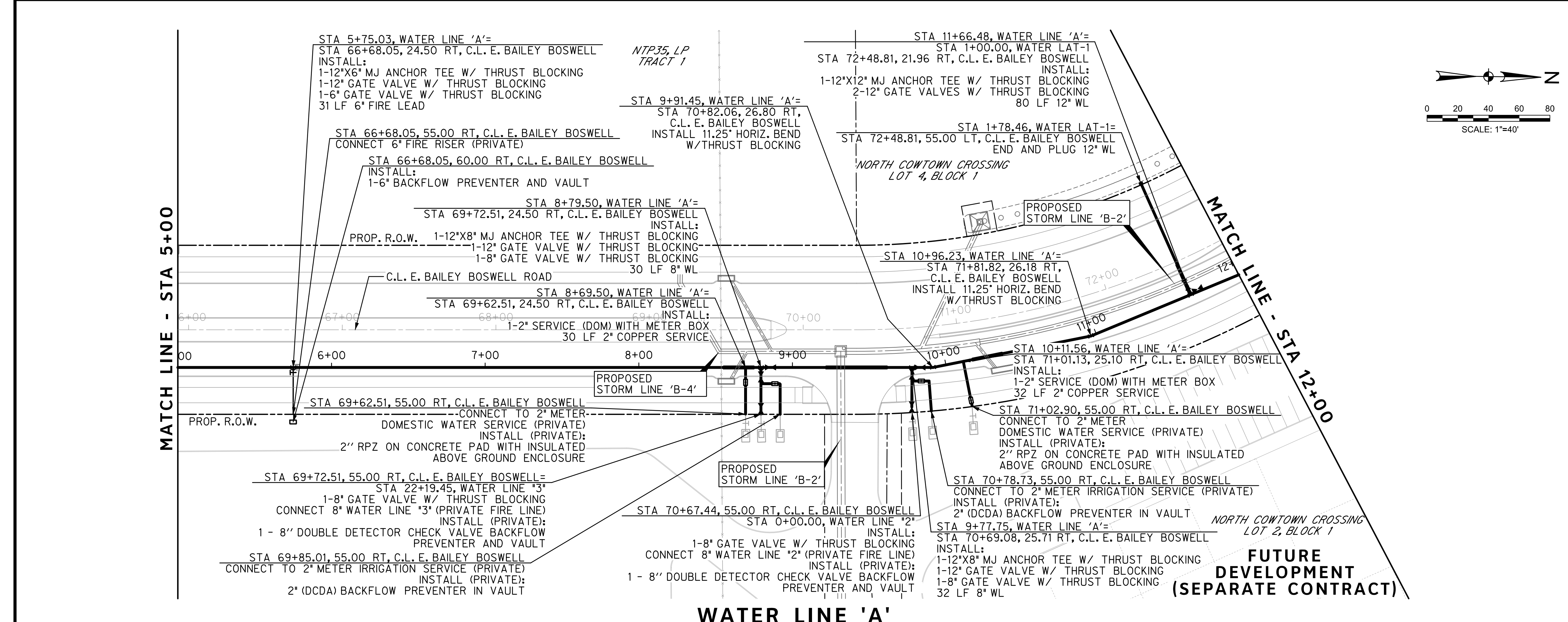
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

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

PLAN & PROFILE

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

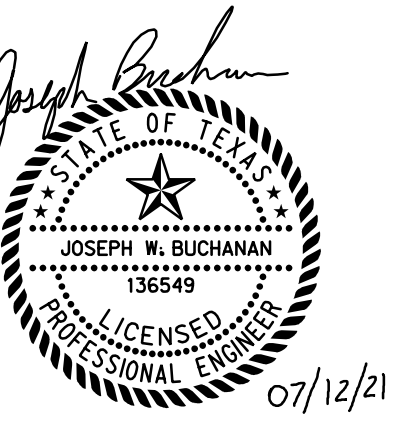
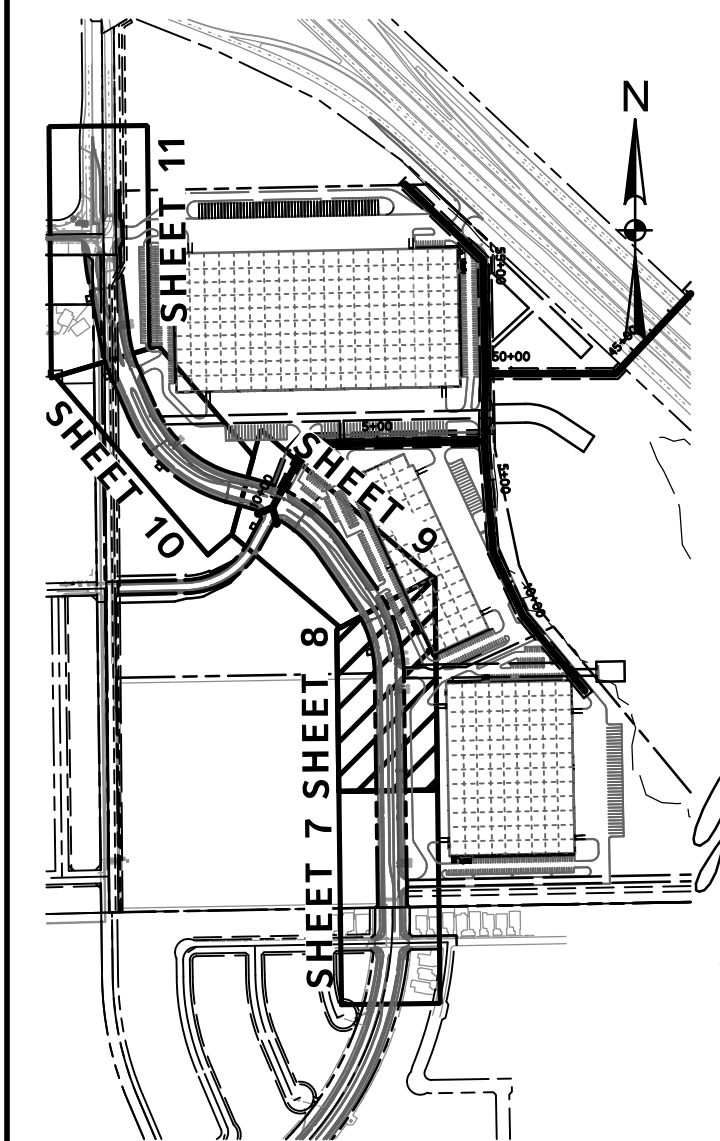
8/5/2021 5:13:11 PM I:\2020\08\24\487\001\CADD\Sheets\FRC\Public Improvements Sheets\C102-WATR-42487.dgn



REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



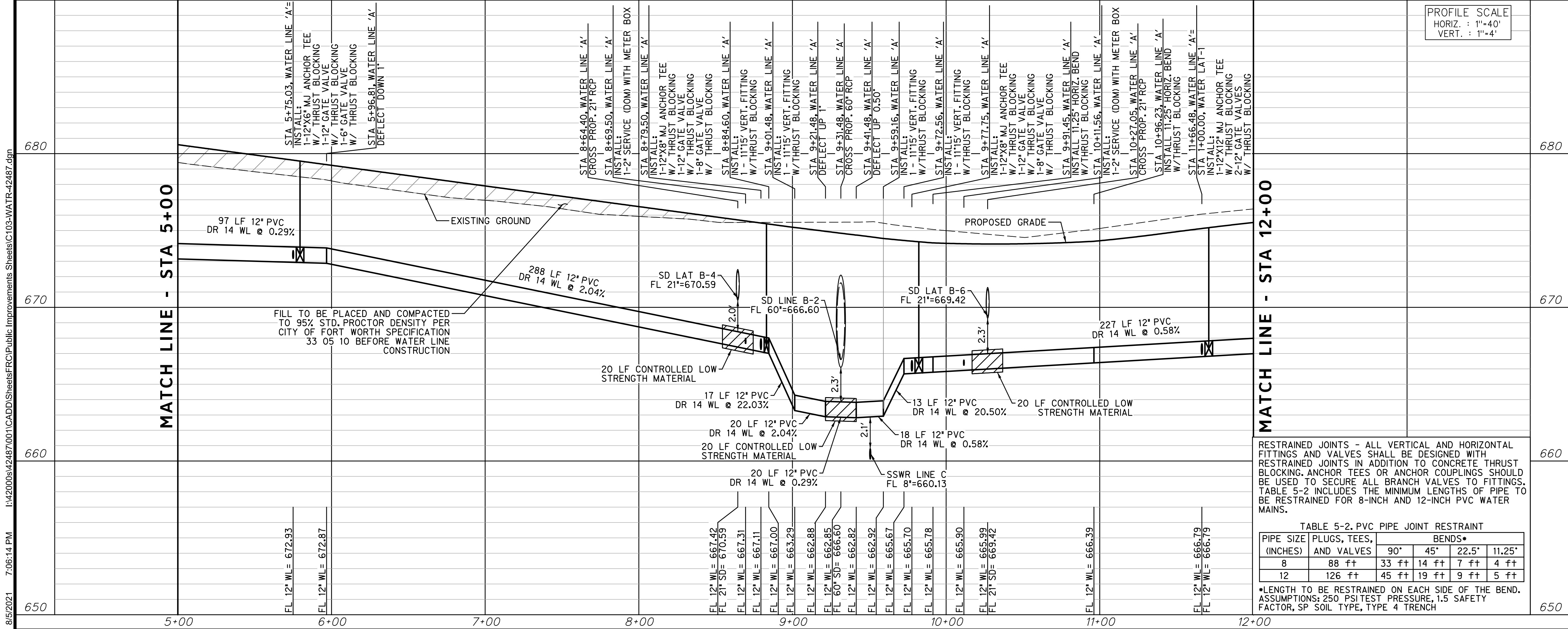
KEY MAP



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBP# FIRM #312.

FUTURE DEVELOPMENT (SEPARATE CONTRACT)

WATER LINE 'A'



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

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) 392-8296
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' 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
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			

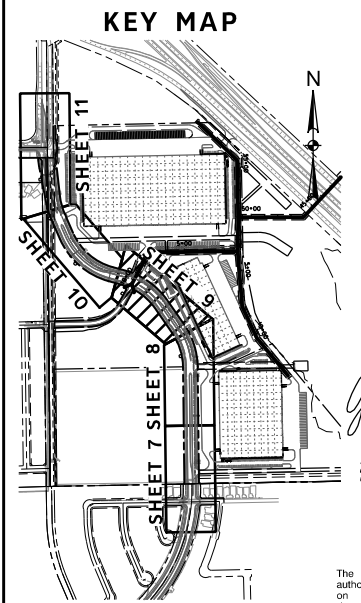
TABLE 5-2. PVC PIPE JOINT RESTRAINT

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

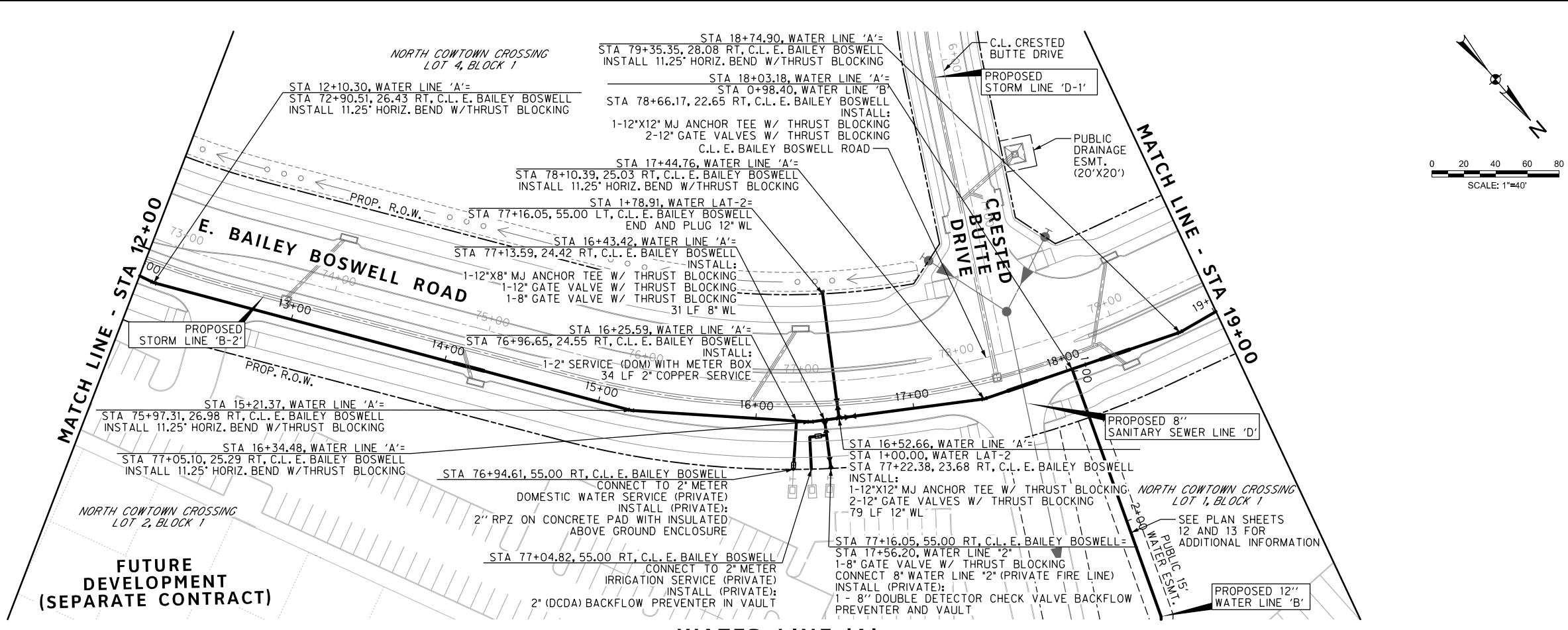
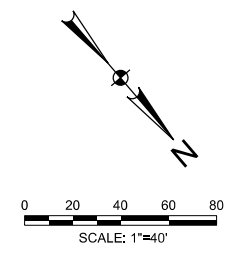
*LENGTH TO BE RESTRAINED ON EACH SIDE OF THE BEND. ASSUMPTIONS: 250 PSI TEST PRESSURE, 1.5 SAFETY FACTOR, SP SOIL TYPE, TYPE 4 TRENCH

8/5/2021 7:06:14 PM I:\200068\42487\001\CADD\Sheets\FRCIP\Public Improvements Sheets\C103-WATR-42487.dgn

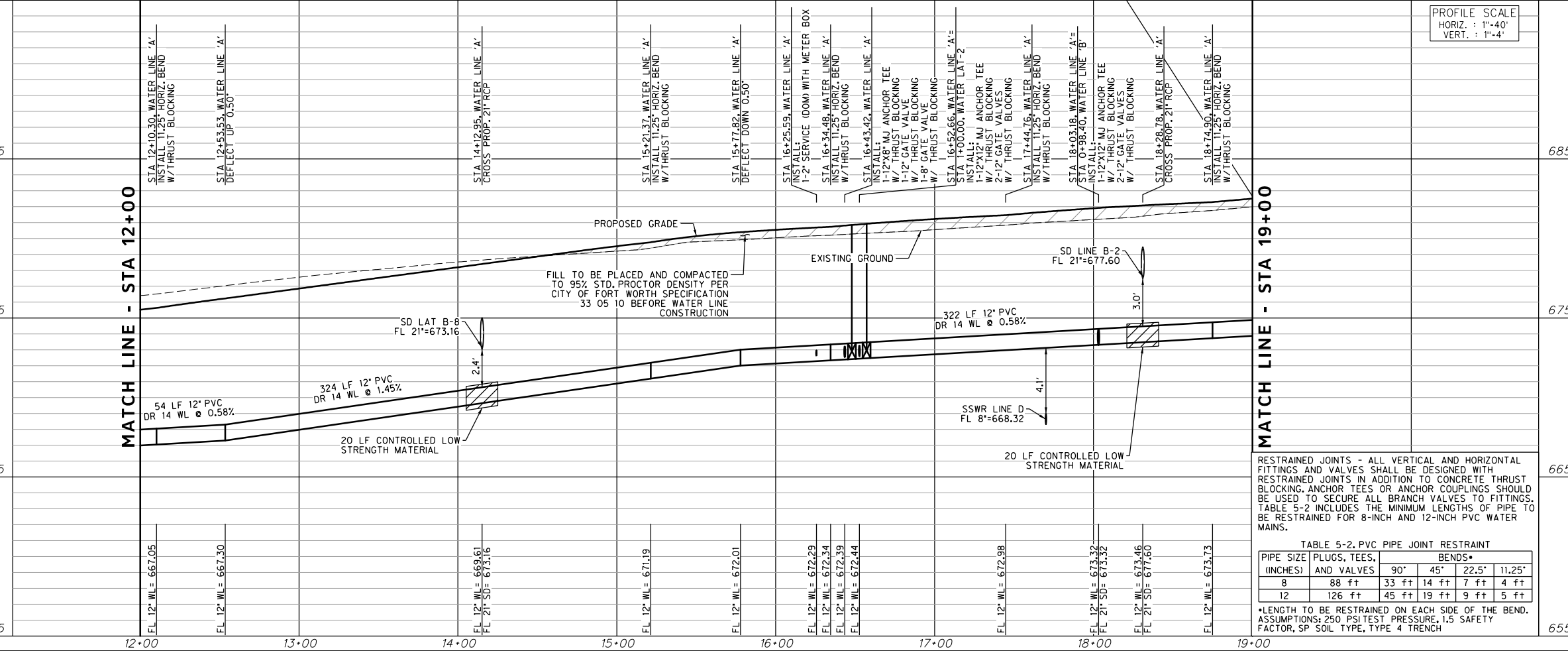
REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/08/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TBPELS Engineering Firm #312



WATER 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) 392-8296
 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

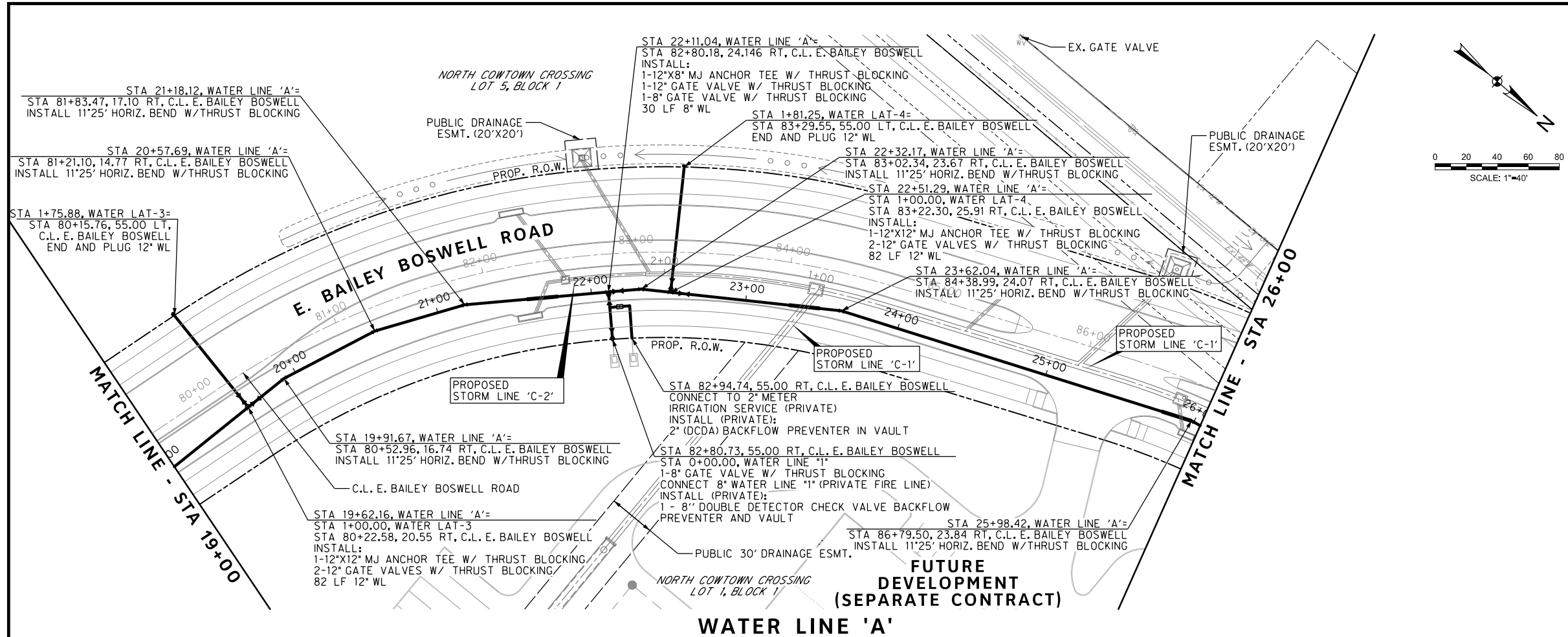
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
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			

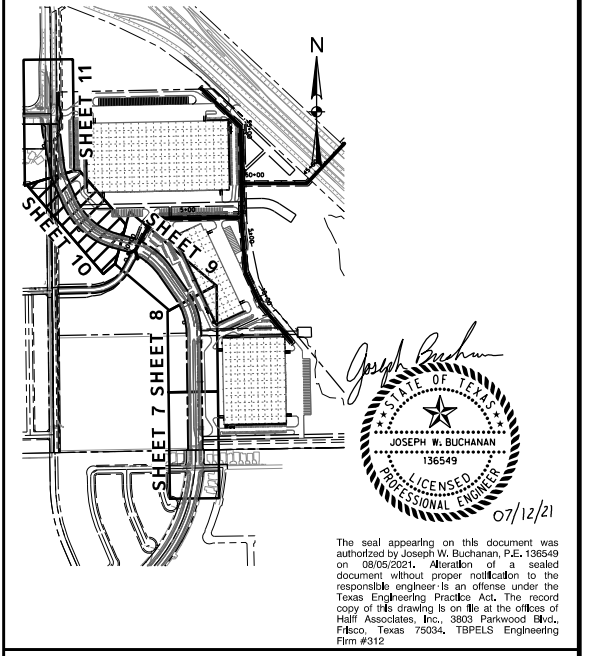
8/5/2021 5:13:14 PM I:\2020\842487\001\CADD\Sheets\FRCIP\Public Improvements\Sheets\C104-WATR-42487.dgn



REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		

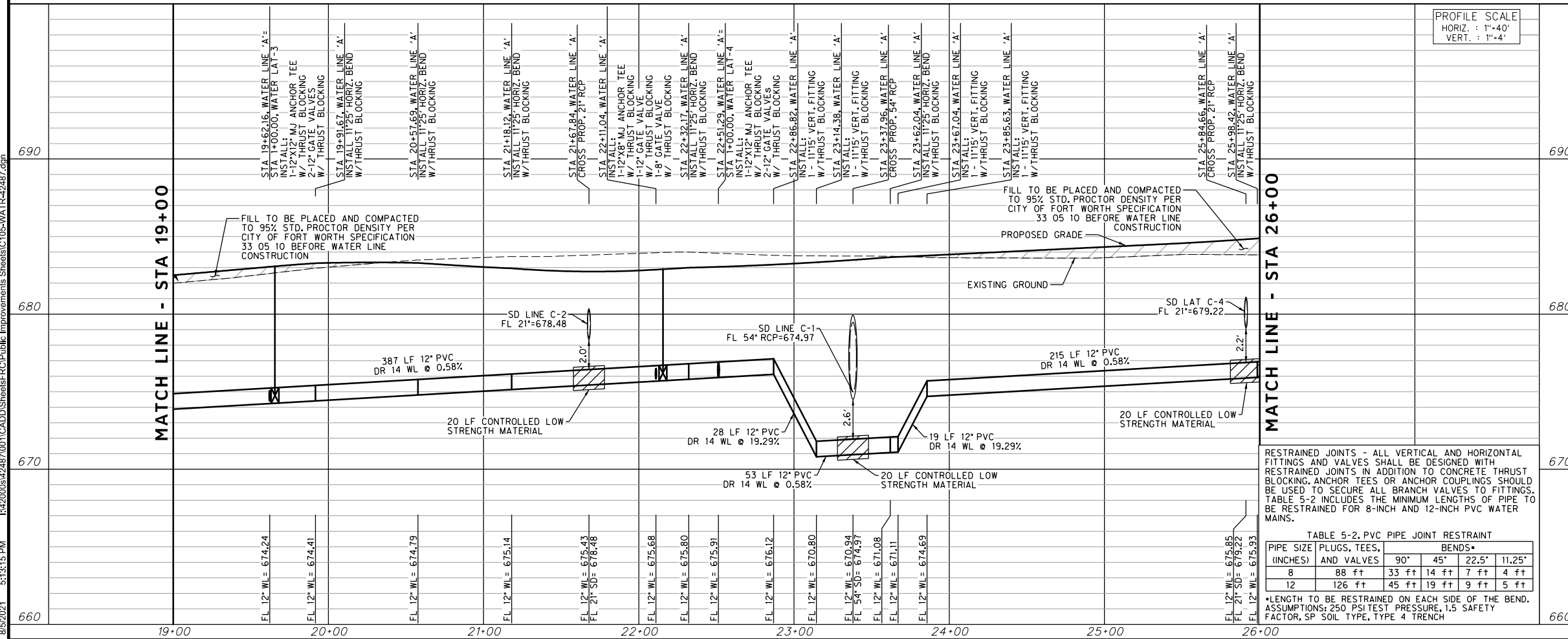


KEY MAP



FUTURE DEVELOPMENT (SEPARATE CONTRACT)

WATER 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) 392-8296
 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
 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			

8/5/2021 5:13:15 PM I:\2020\08\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C105-WATR-42487.dgn

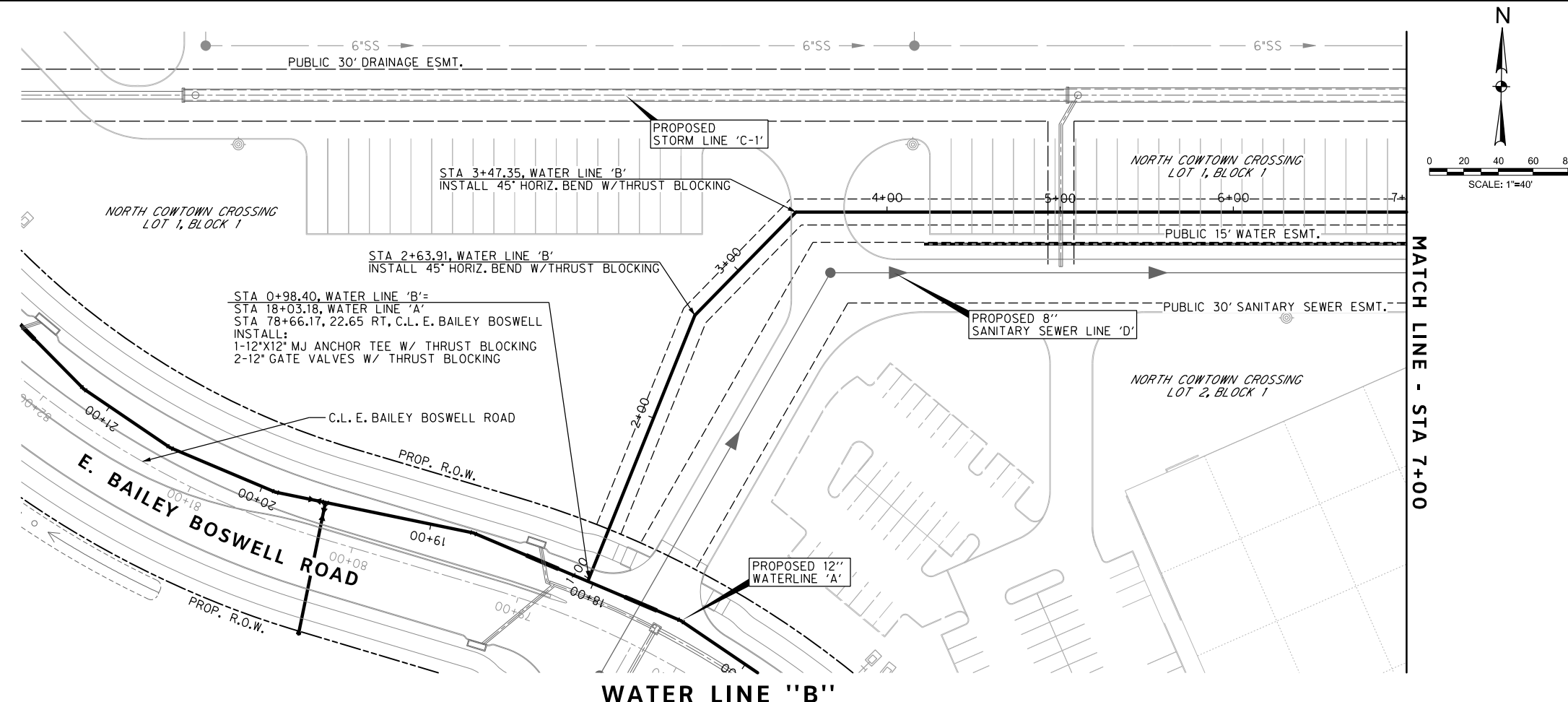
REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



KEY MAP

Professional Engineer Seal for Joseph W. Buchanan, License No. 136549, State of Texas, dated 07/12/21.

The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104, TPELS Engineering Firm #312.



MATCH LINE - STA 7+00

MATCH LINE - STA 7+00

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) 392-8296
 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

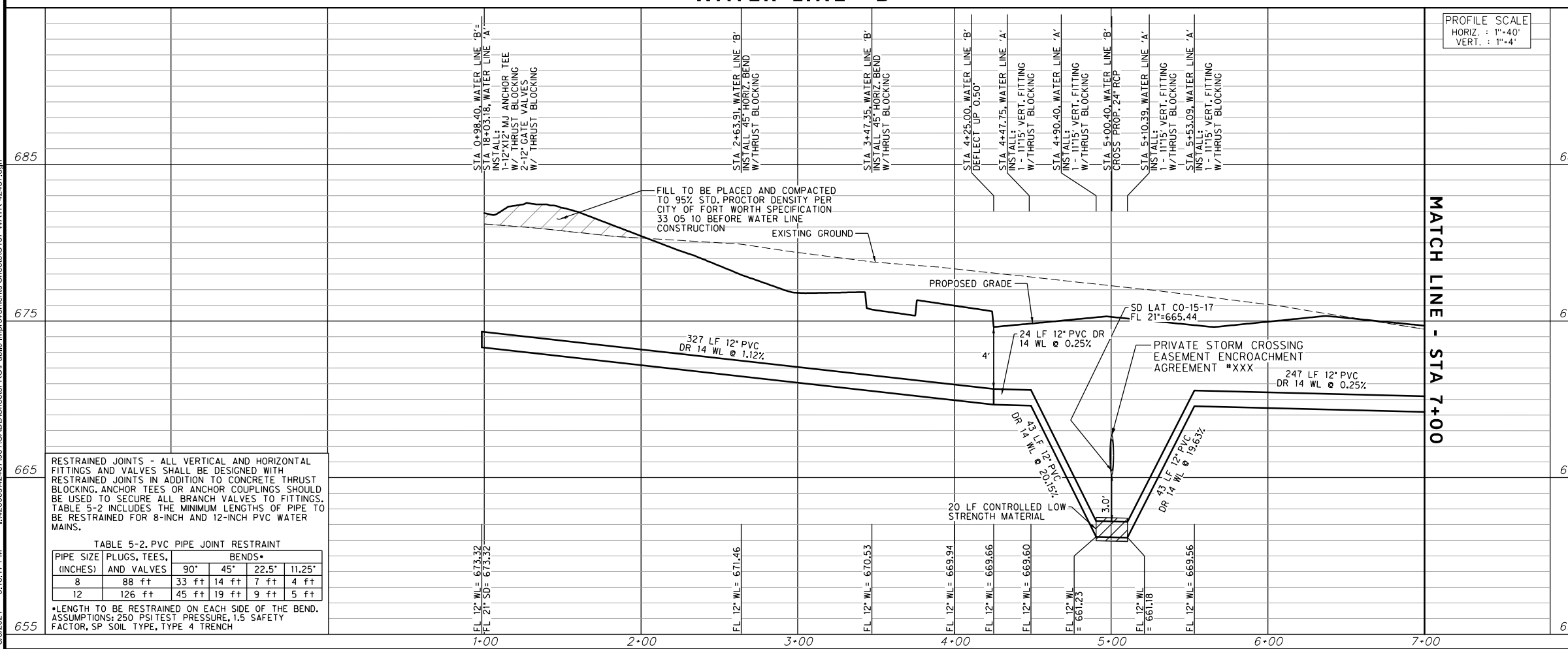
CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

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
WATERLINE 'B'
 BEGIN TO STA 7+00

PLAN & PROFILE

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



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

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

8/5/2021 5:13:17 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C107-WATR-42487.dgn

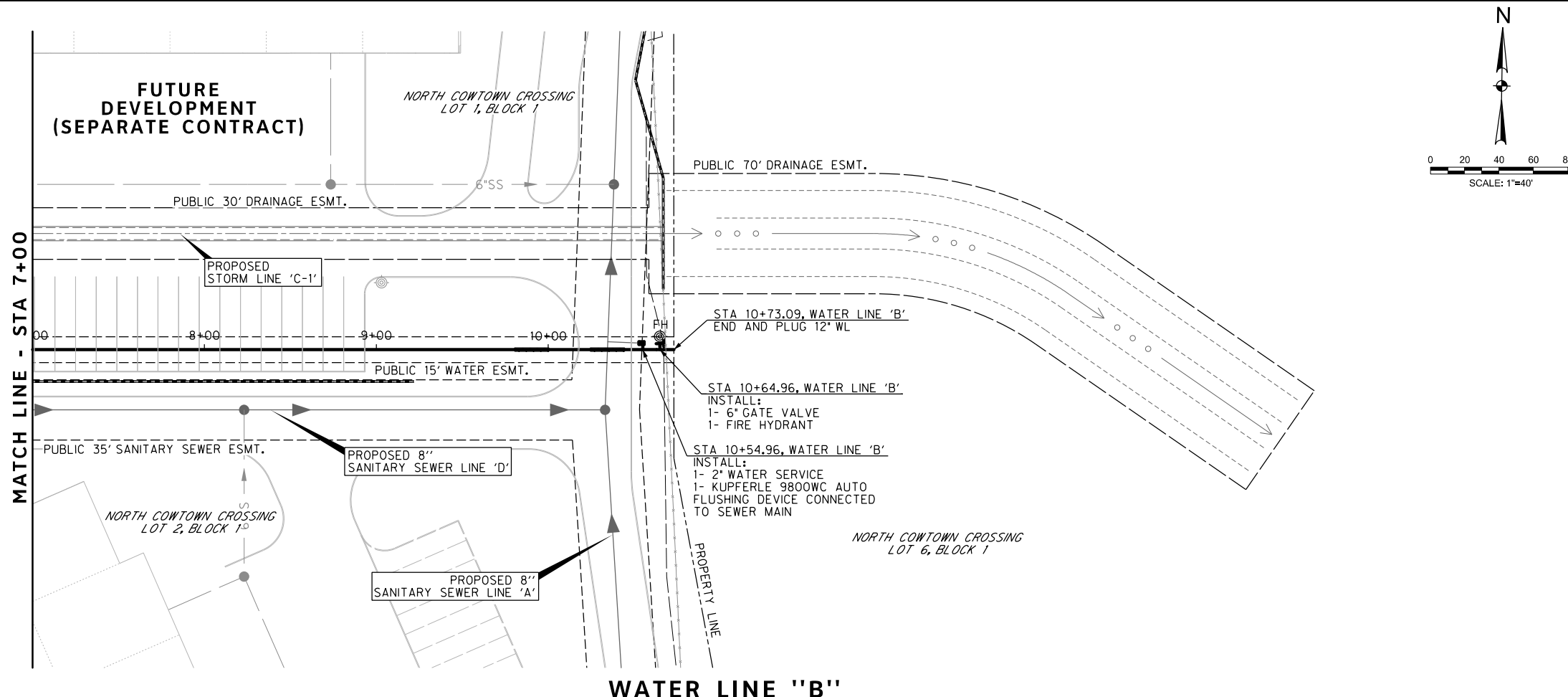
REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



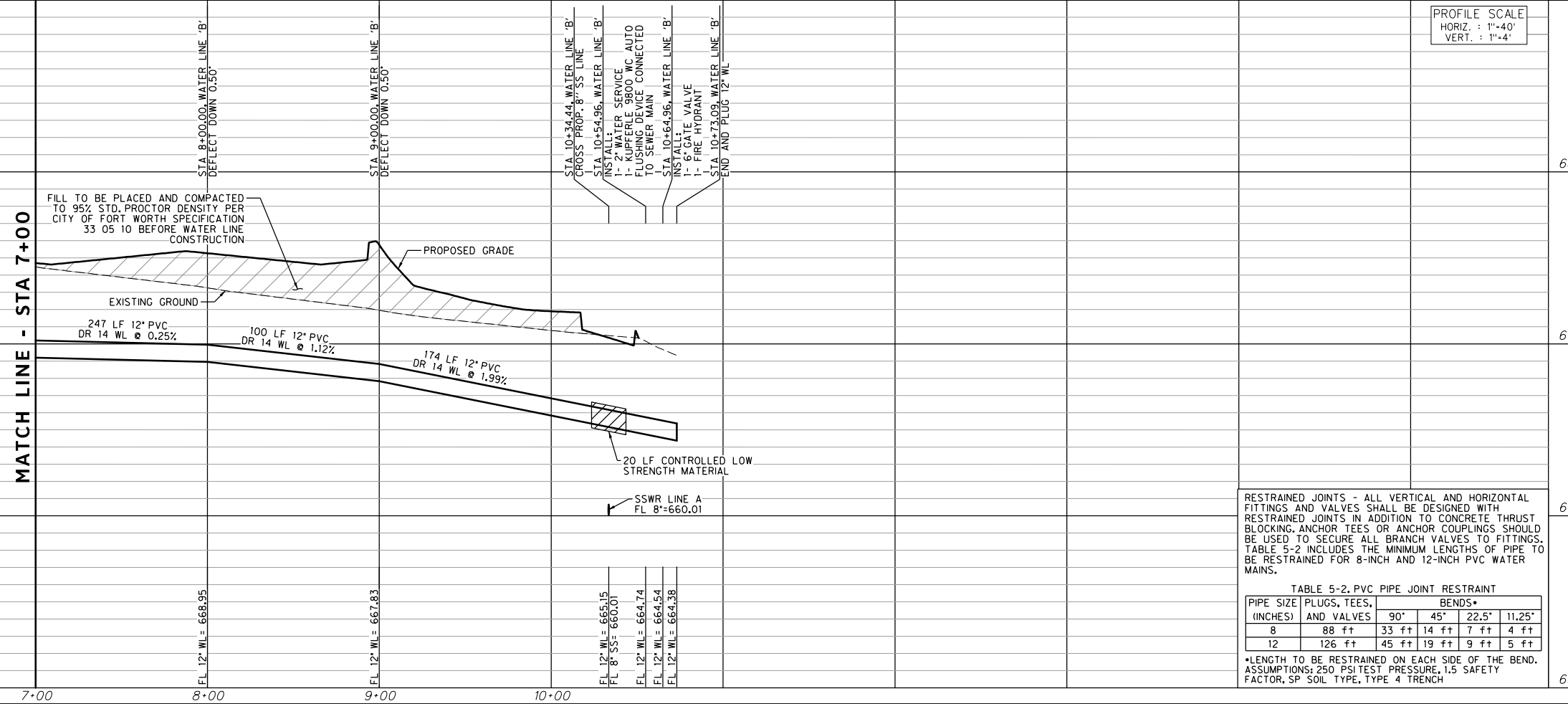
KEY MAP

Professional Engineer Seal for Joseph W. Buchanan, License No. 136549, State of Texas, dated 07/12/21.

The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TPELS Engineering Firm #312.



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



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) 392-8296
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' 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
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.

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

8/5/2021 5:13:19 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements\Sheets\C108-WATR-42487.dgn

8/5/2021 5:13:20 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C109-WATR-42487.dgn

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+06.66, WATER LINE 'A'
INSTALL:
1-12"X12" MJ ANCHOR TEE
W/ THRUST BLOCKING
2-12" GATE VALVES
W/ THRUST BLOCKING

STA 1+78.46, WATER LAT-1
END AND PLUG 12" WL

EXISTING GROUND
PROPOSED GRADE

79 LF 12" PVC
DR 14 WL @ 4.09%

FL 12" WL = 666.79
FL 12" WL = 666.79

FL 12" WL = 670.00

1+00

STA 1+00.00, WATER LAT-4
STA 22+51.23, WATER LINE 'A'
INSTALL:
1-12"X12" MJ ANCHOR TEE
W/ THRUST BLOCKING
2-12" GATE VALVES
W/ THRUST BLOCKING

STA 1+81.25, WATER LAT-3
END AND PLUG 12" WL

EXISTING GROUND
PROPOSED GRADE

76 LF 12" PVC
DR 14 WL @ 1.96%

FL 12" WL = 675.91
FL 12" WL = 675.91

FL 12" WL = 677.50

WATER LAT-4

1+00

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+78.91, WATER LAT-2
END AND PLUG 12" WL

PROPOSED GRADE
EXISTING GROUND

79 LF 12" PVC
DR 14 WL @ 3.88%

FL 12" WL = 672.44
FL 12" WL = 672.44

FL 12" WL = 675.50

1+00

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

EXISTING GROUND
PROPOSED GRADE

76 LF 12" PVC
DR 14 WL @ 4.30%

FL 12" WL = 674.24
FL 12" WL = 674.24

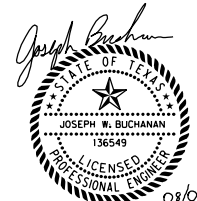
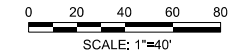
FL 12" WL = 677.50

1+00

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

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TBPELS Engineering Firm #312

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.
NOTE: 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

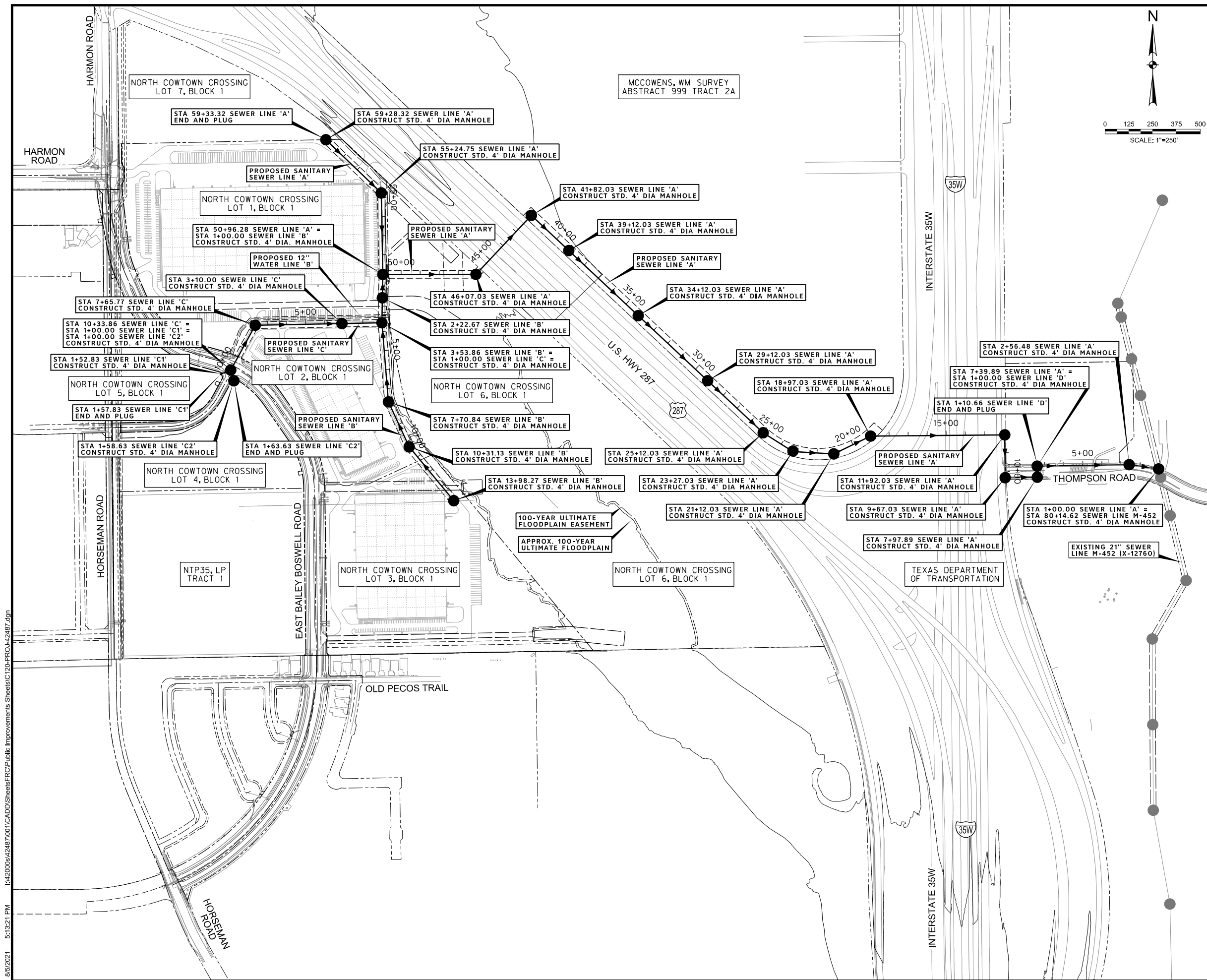
DOE # K-2840
CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
MAP NO. XXXX-XXX

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
WATERLINE LATERALS

PROFILES

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



REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



LEGEND

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



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBP/E/S Engineering Firm #312

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) 392-8296
 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-XXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 MAP NO. XXXX-XXX

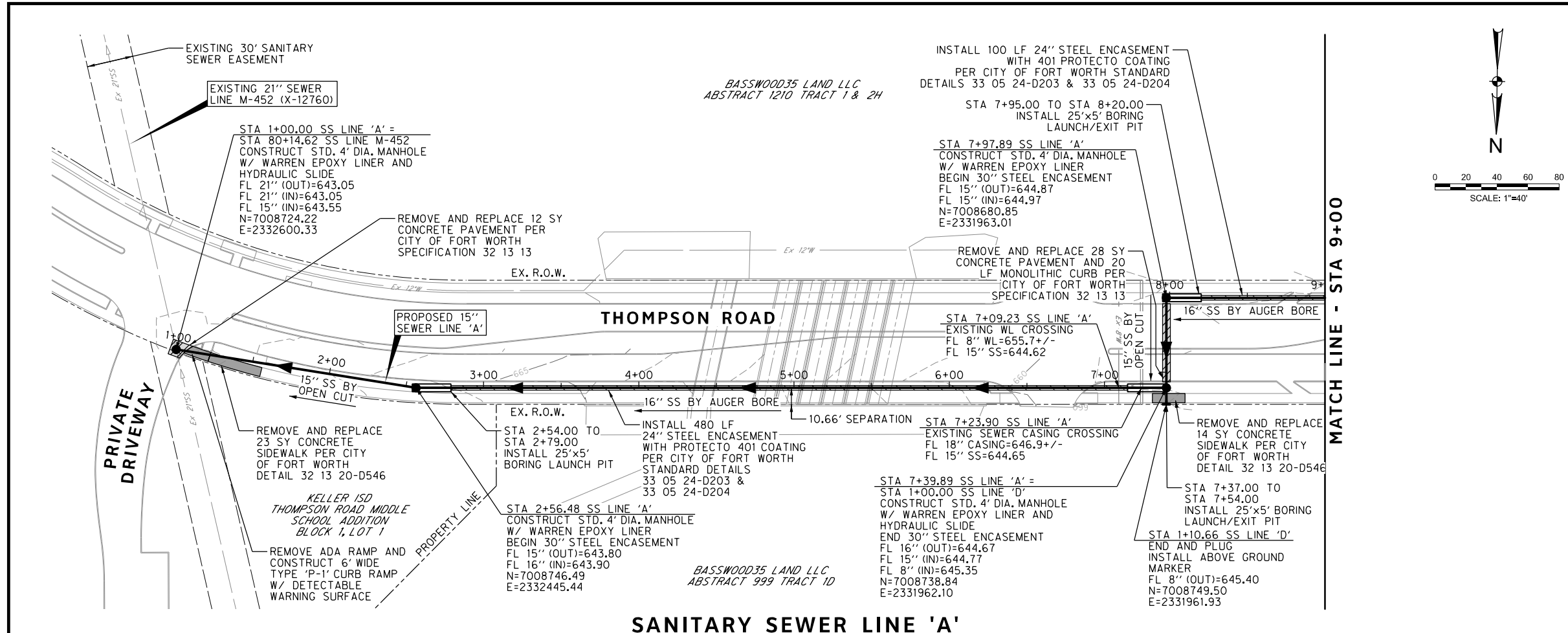
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

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

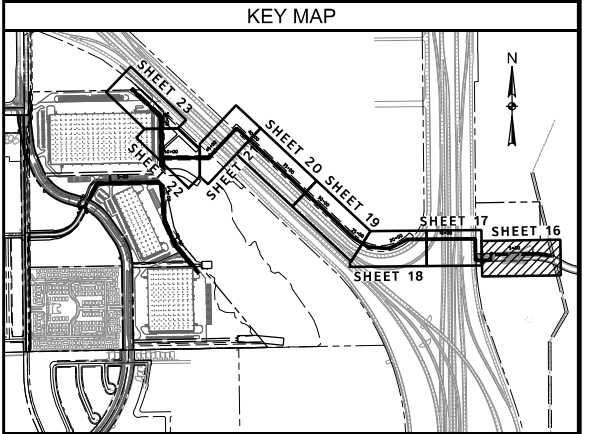
SANITARY SEWER

DESIGNED: TMW	SCALE: 1"=250'	DATE: 06/08/2021	SHEET 15 OF 189
DRAWN: PTS			



REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		

HALFF
 TBPE FIRM #312
 3803 PARKWOOD BLVD., STE 800
 FORT WORTH, TEXAS 76104-8640
 (214) 217-8994



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.

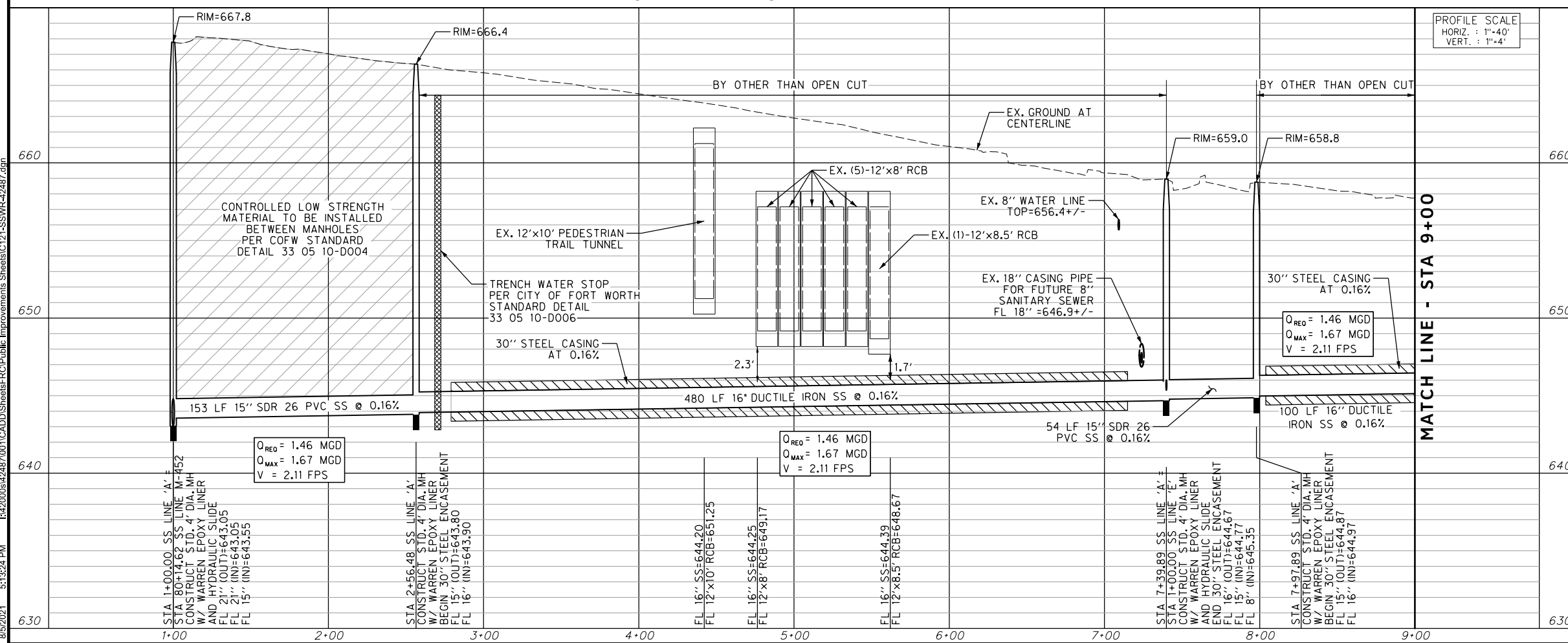
THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATING AT EACH LOCATION:

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) 392-8296
 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

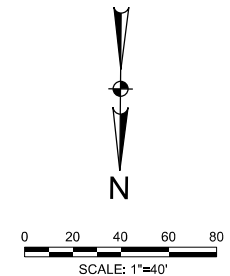
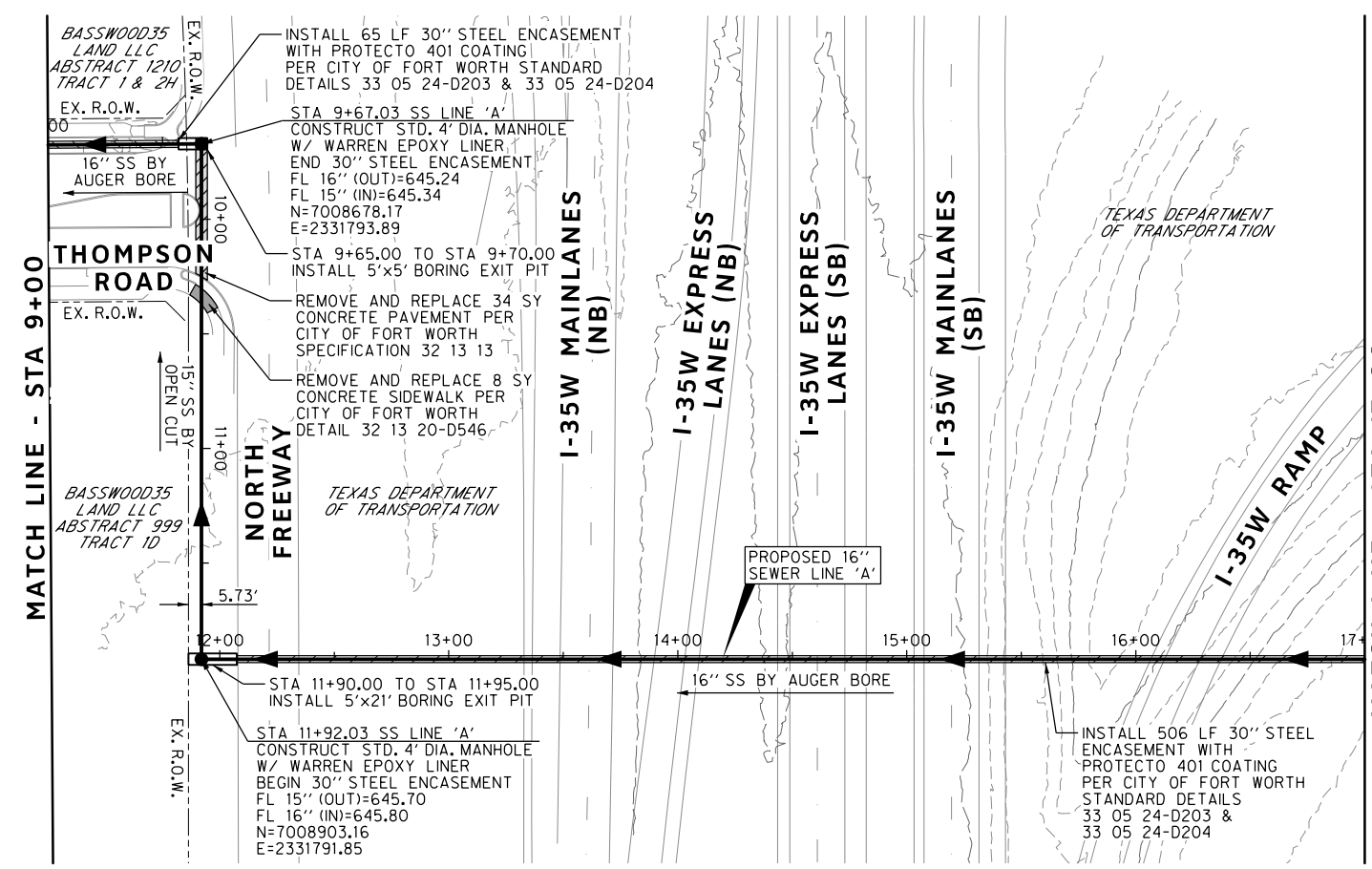
EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD
SANITARY SEWER LINE 'A'
 BEGIN TO STA 9+00

PLAN & PROFILE

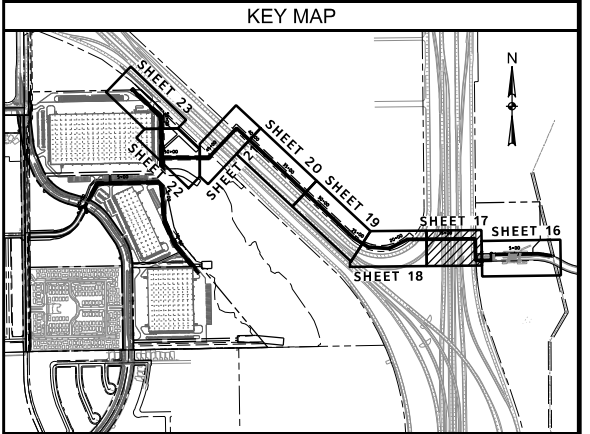
DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 16 OF 189
DRAWN: PTS			

8/5/2021 5:13:24 PM C121-SSWR-42487.dgn

8/5/2021 5:13:25 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C122-SSWR-42487.dgn

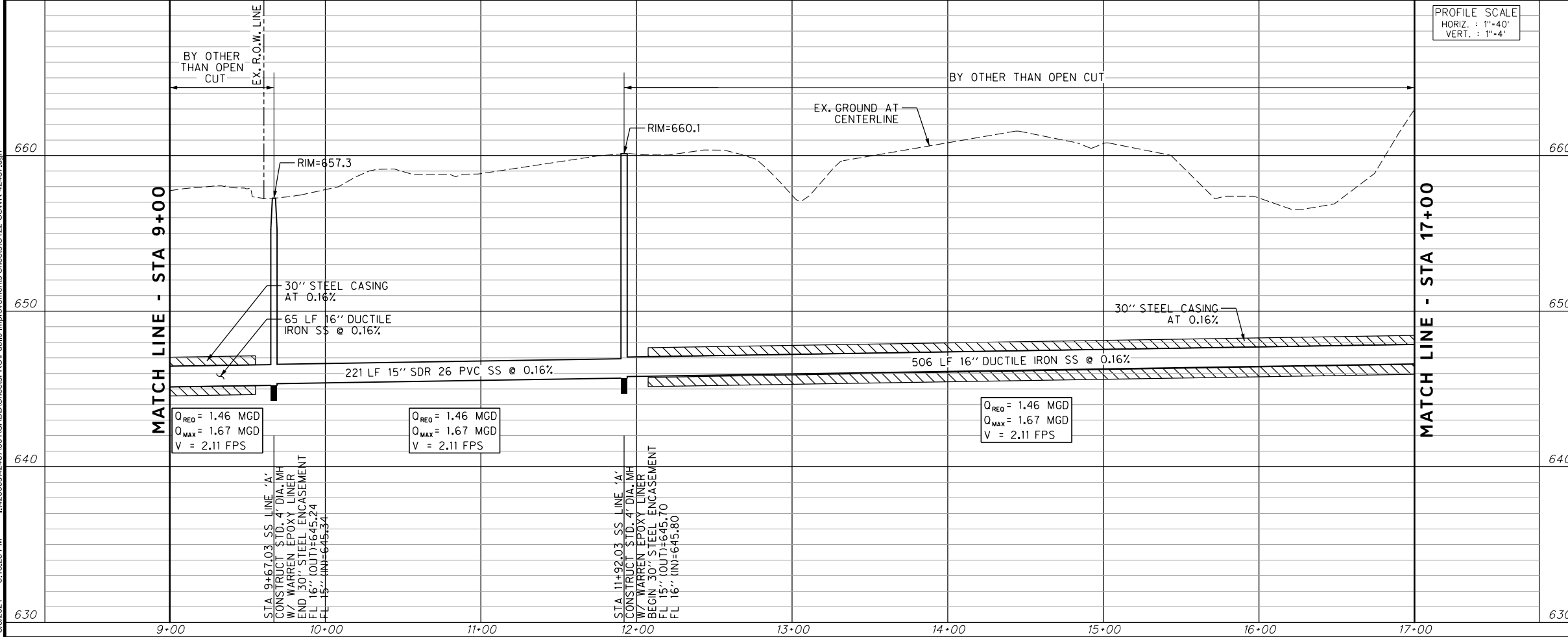


REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TIRELS Engineering Firm #312

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) 392-8296
 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

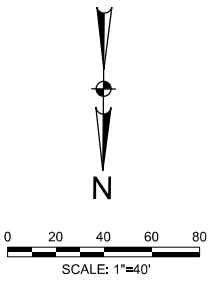
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
SANITARY SEWER LINE 'A'
 STA 9+00 TO STA 17+00

PLAN & PROFILE

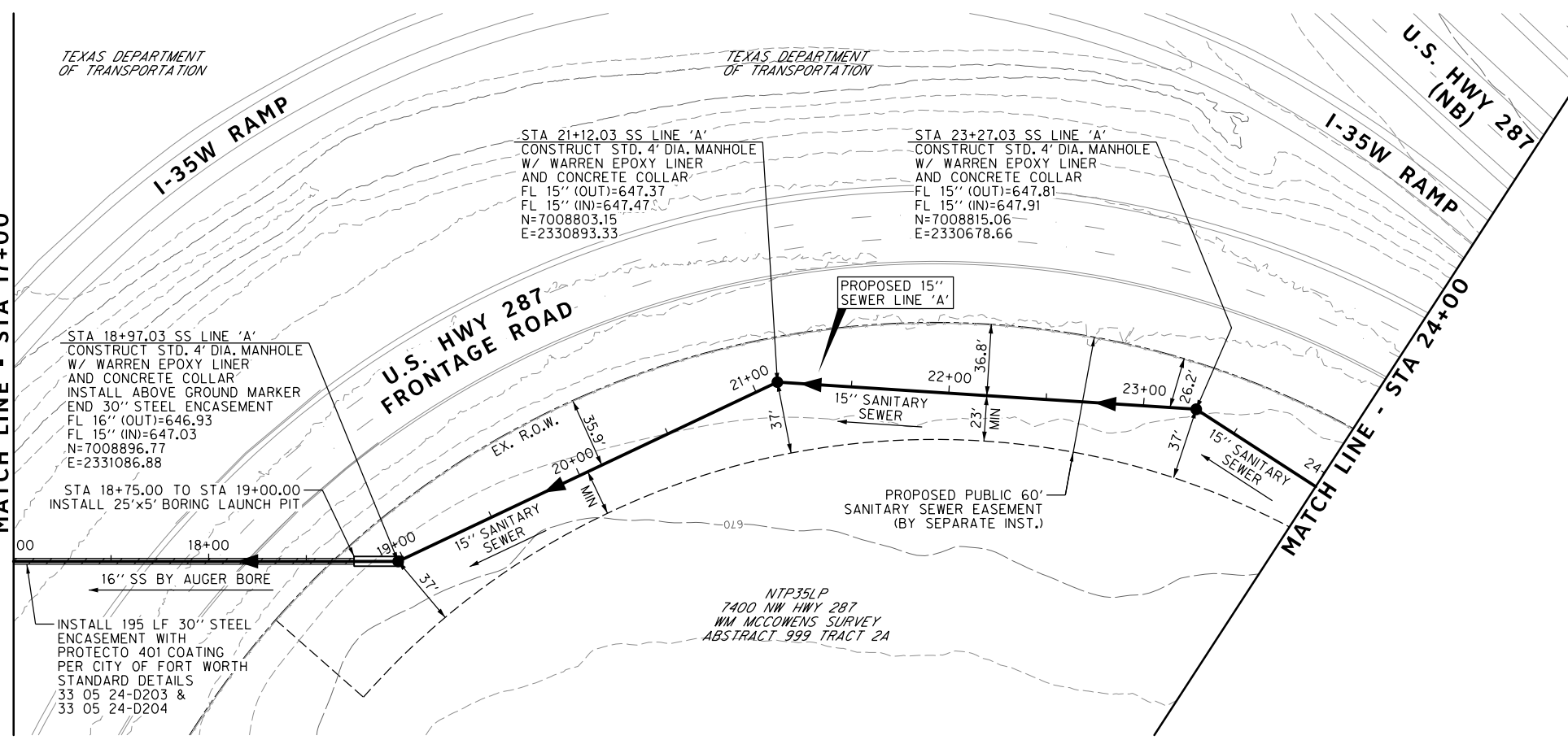
DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 17 OF 189
DRAWN: PTS			

TEXAS DEPARTMENT OF TRANSPORTATION

TEXAS DEPARTMENT OF TRANSPORTATION



MATCH LINE - STA 17+00



STA 18+97.03 SS LINE 'A'
CONSTRUCT STD. 4' DIA. MANHOLE
W/ WARREN EPOXY LINER
AND CONCRETE COLLAR
INSTALL ABOVE GROUND MARKER
END 30" STEEL ENCASUREMENT
FL 16" (OUT)=646.93
FL 15" (IN)=647.03
N=7008803.15
E=2331086.88

STA 21+12.03 SS LINE 'A'
CONSTRUCT STD. 4' DIA. MANHOLE
W/ WARREN EPOXY LINER
AND CONCRETE COLLAR
FL 15" (OUT)=647.37
FL 15" (IN)=647.47
N=7008803.15
E=2330893.33

STA 23+27.03 SS LINE 'A'
CONSTRUCT STD. 4' DIA. MANHOLE
W/ WARREN EPOXY LINER
AND CONCRETE COLLAR
FL 15" (OUT)=647.81
FL 15" (IN)=647.91
N=7008815.06
E=2330678.66

STA 18+75.00 TO STA 19+00.00
INSTALL 25'x5' BORING LAUNCH PIT

16" SS BY AUGER BORE

INSTALL 195 LF 30" STEEL
ENCASUREMENT WITH
PROTECTO 401 COATING
PER CITY OF FORT WORTH
STANDARD DETAILS
33 05 24-D203 &
33 05 24-D204

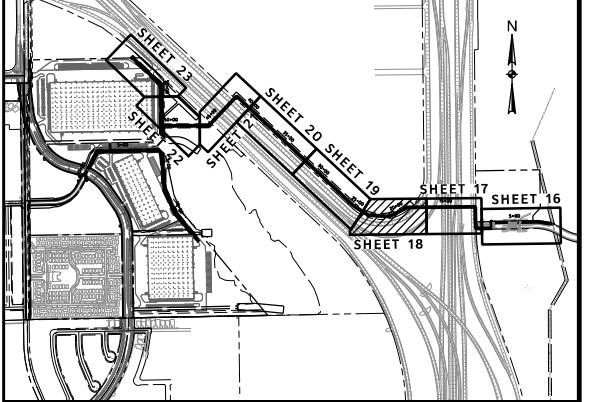
NTP35LP
7400 NW HWY 287
WM MCCOWENS SURVEY
ABSTRACT 999 TRACT 2A

SANITARY SEWER LINE 'A'

REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



KEY MAP



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104, TBPELS Engineering Firm #312

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) 392-8296
 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
SANITARY SEWER LINE 'A'
STA 17+00 TO STA 24+00

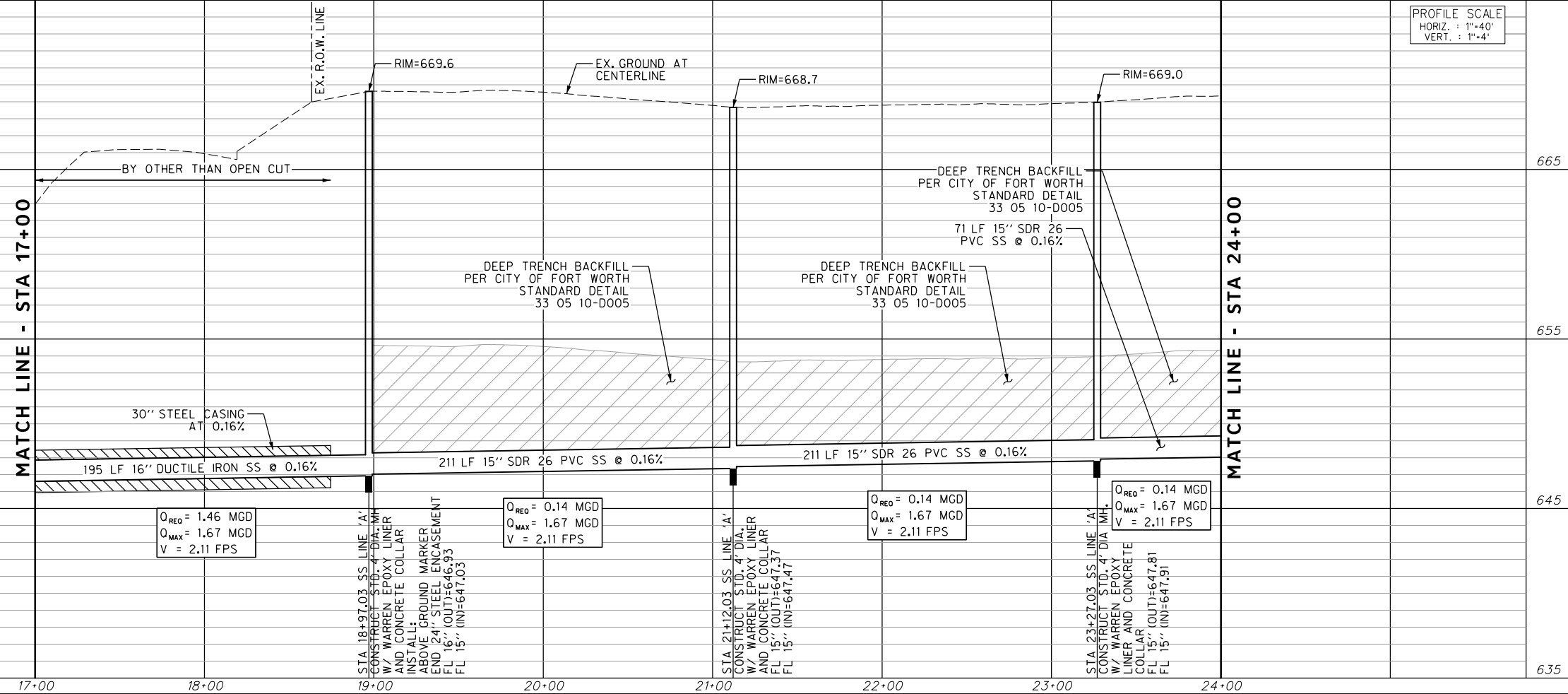
PLAN & PROFILE

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

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

MATCH LINE - STA 17+00

MATCH LINE - STA 24+00



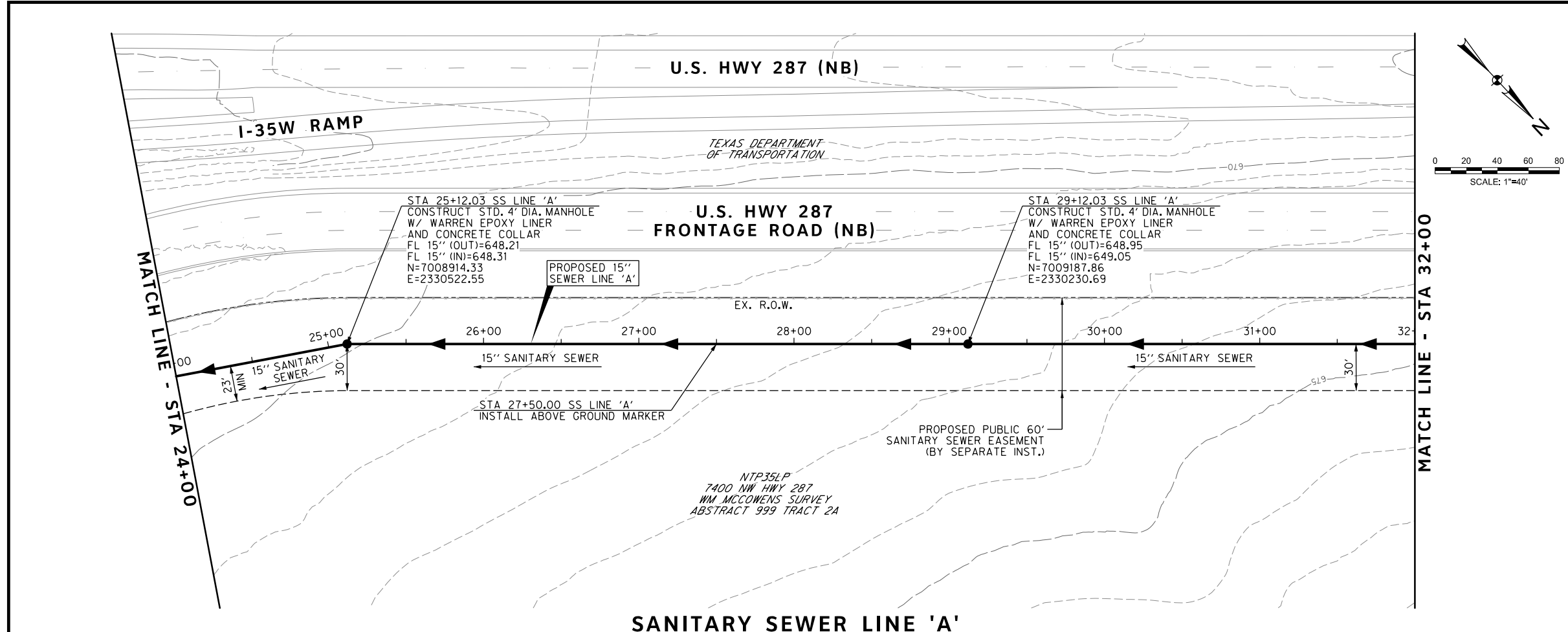
Q_{REQ} = 1.46 MGD
Q_{MAX} = 1.67 MGD
V = 2.11 FPS

Q_{REQ} = 0.14 MGD
Q_{MAX} = 1.67 MGD
V = 2.11 FPS

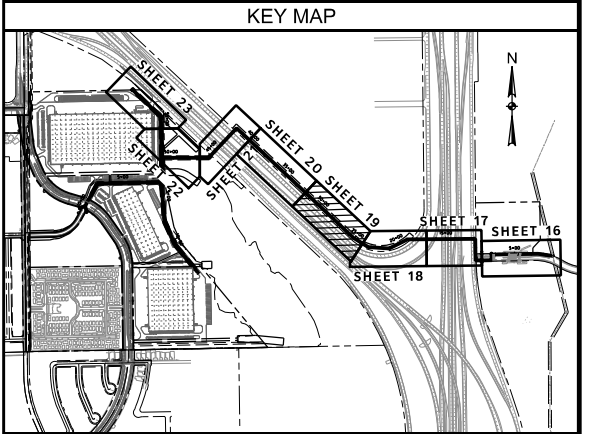
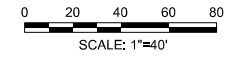
Q_{REQ} = 0.14 MGD
Q_{MAX} = 1.67 MGD
V = 2.11 FPS

Q_{REQ} = 0.14 MGD
Q_{MAX} = 1.67 MGD
V = 2.11 FPS

8/5/2021 5:13:27 PM I:\2008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C123-SS\SWR-42487.dgn

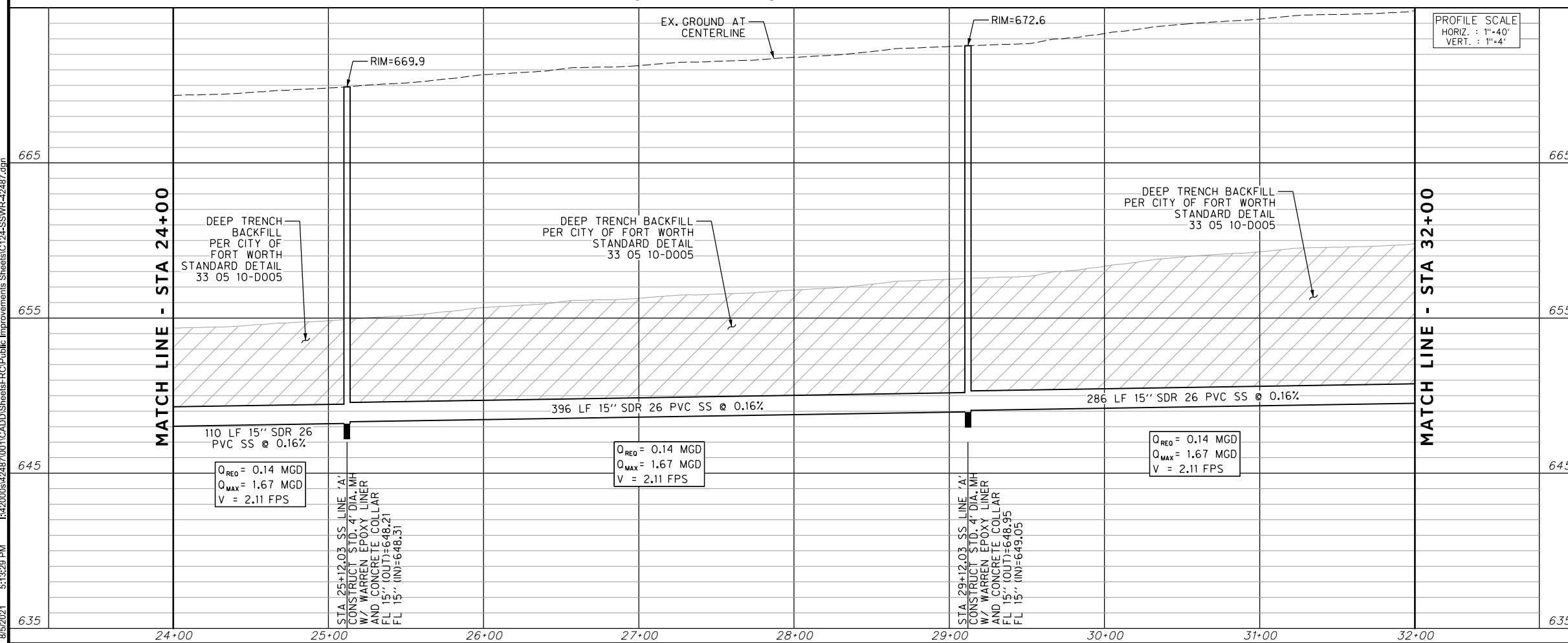


REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104, TBPELS Engineering Firm #312.

SANITARY SEWER LINE 'A'



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

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) 392-8296
 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

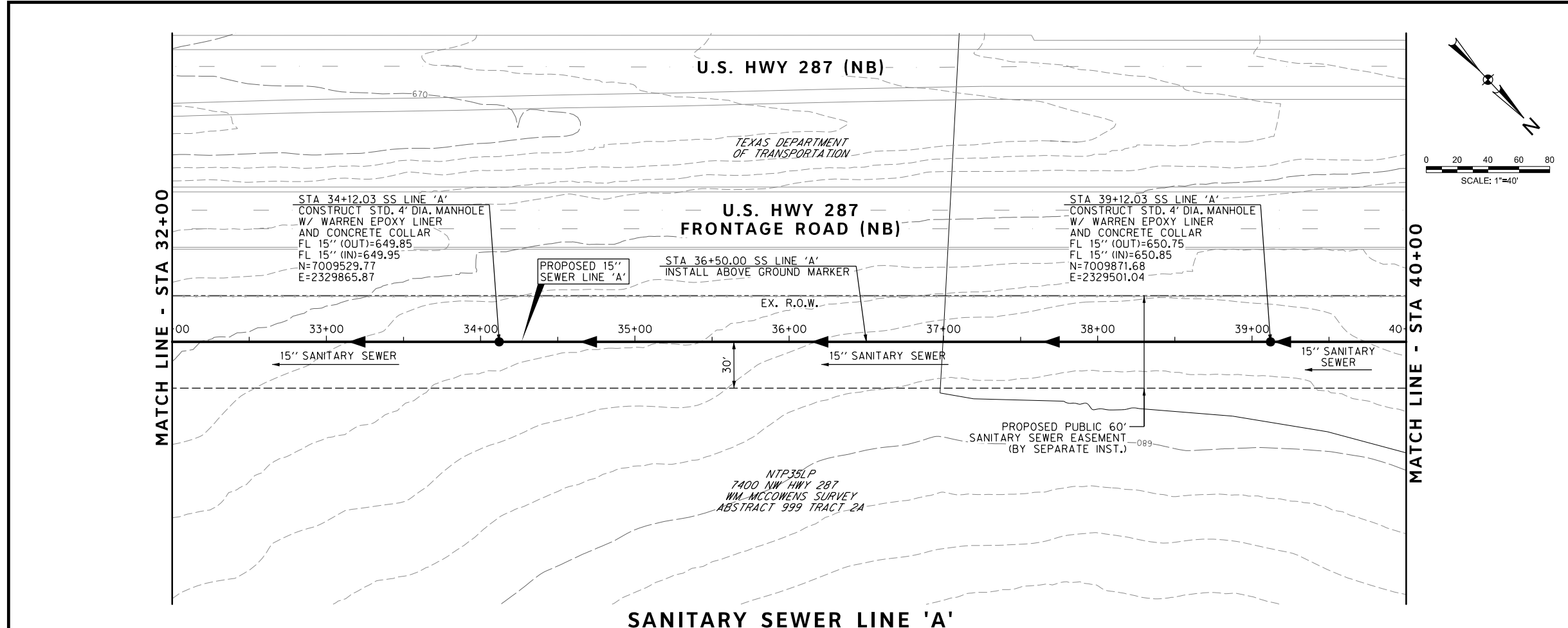
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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
SANITARY SEWER LINE 'A'
 STA 24+00 TO STA 32+00

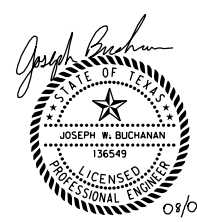
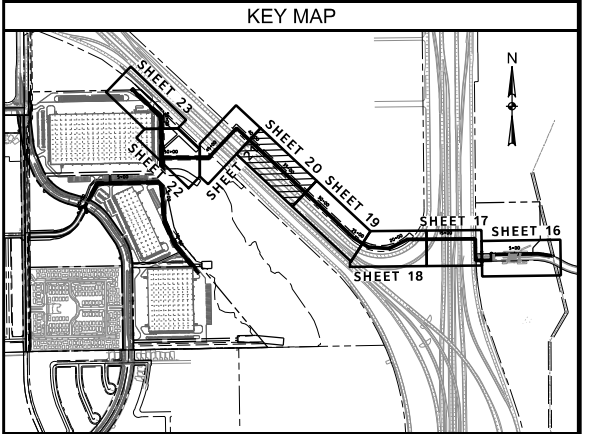
PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 19 OF 189
DRAWN: PTS			

8/5/2021 5:13:29 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements\Sheets\C124-SS\SWP-42487.dgn



REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Ft. Worth, Texas 76104, TBPELS Engineering Firm #312.

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) 392-8296
 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

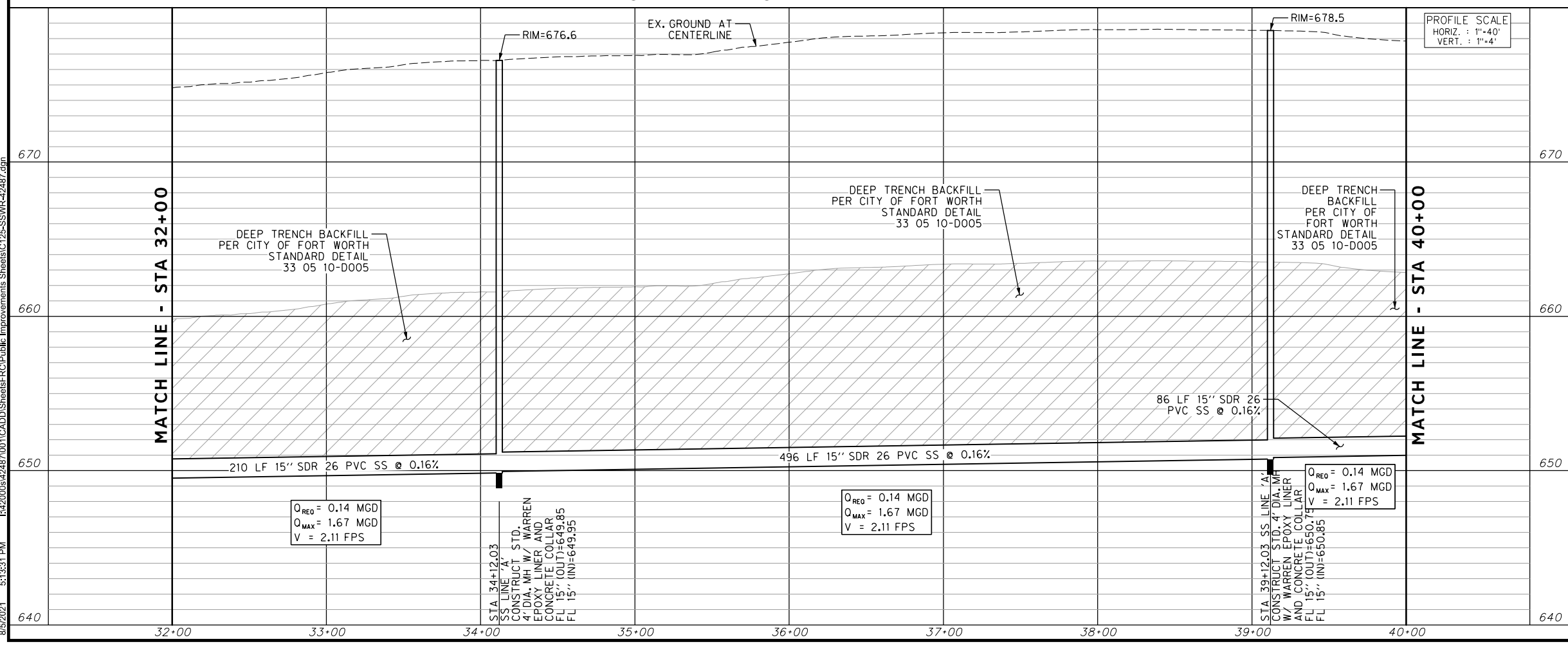
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

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

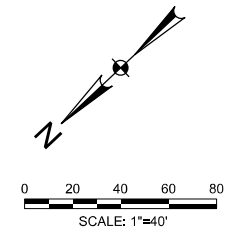
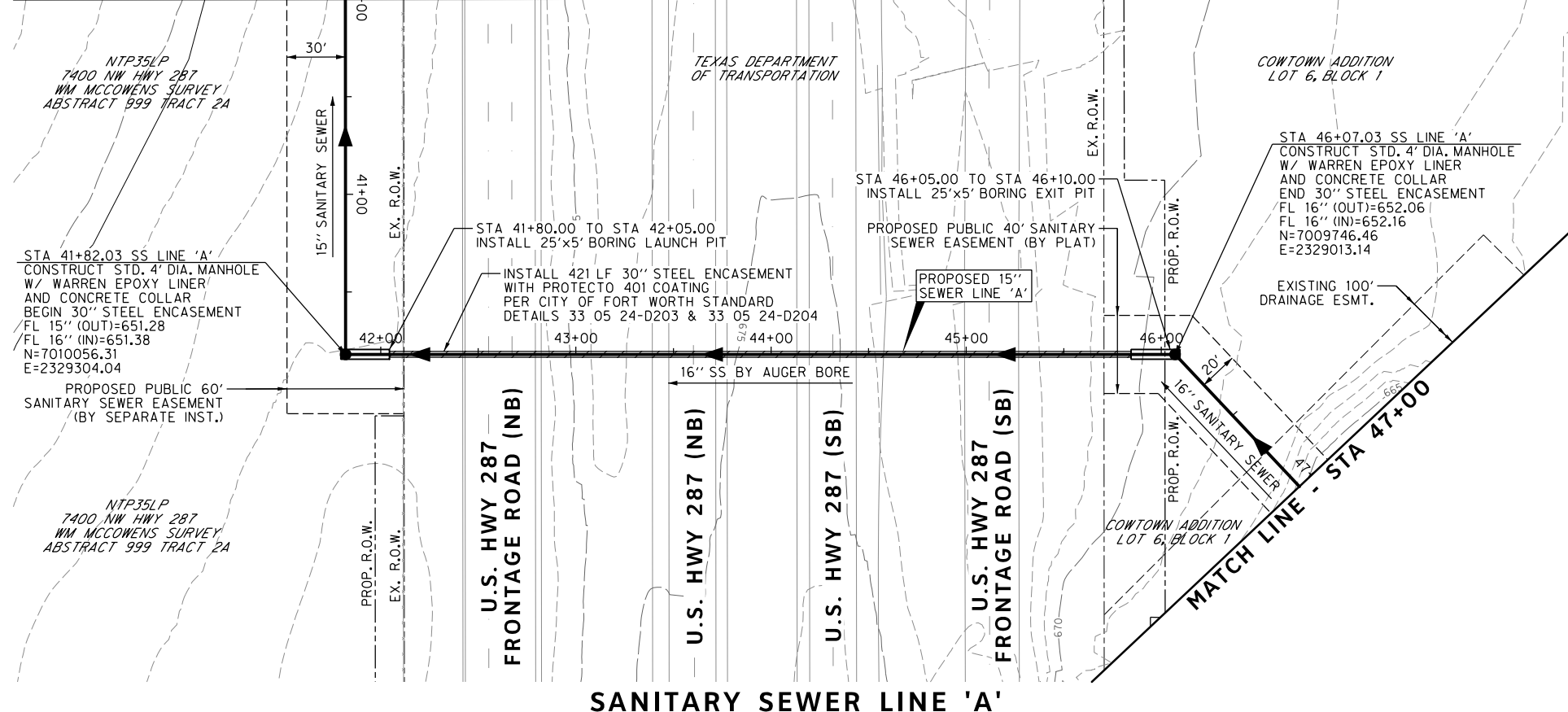
PLAN & PROFILE

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



8/5/2021 5:13:31 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C125-SS\SWR-42487.dgn

MATCH LINE - STA 40+00

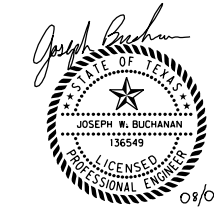
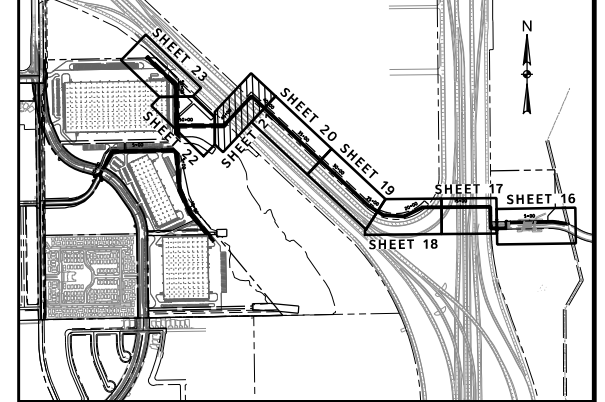


REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



KEY MAP



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/08/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TPELS Engineering Firm #312

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) 392-8296
 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

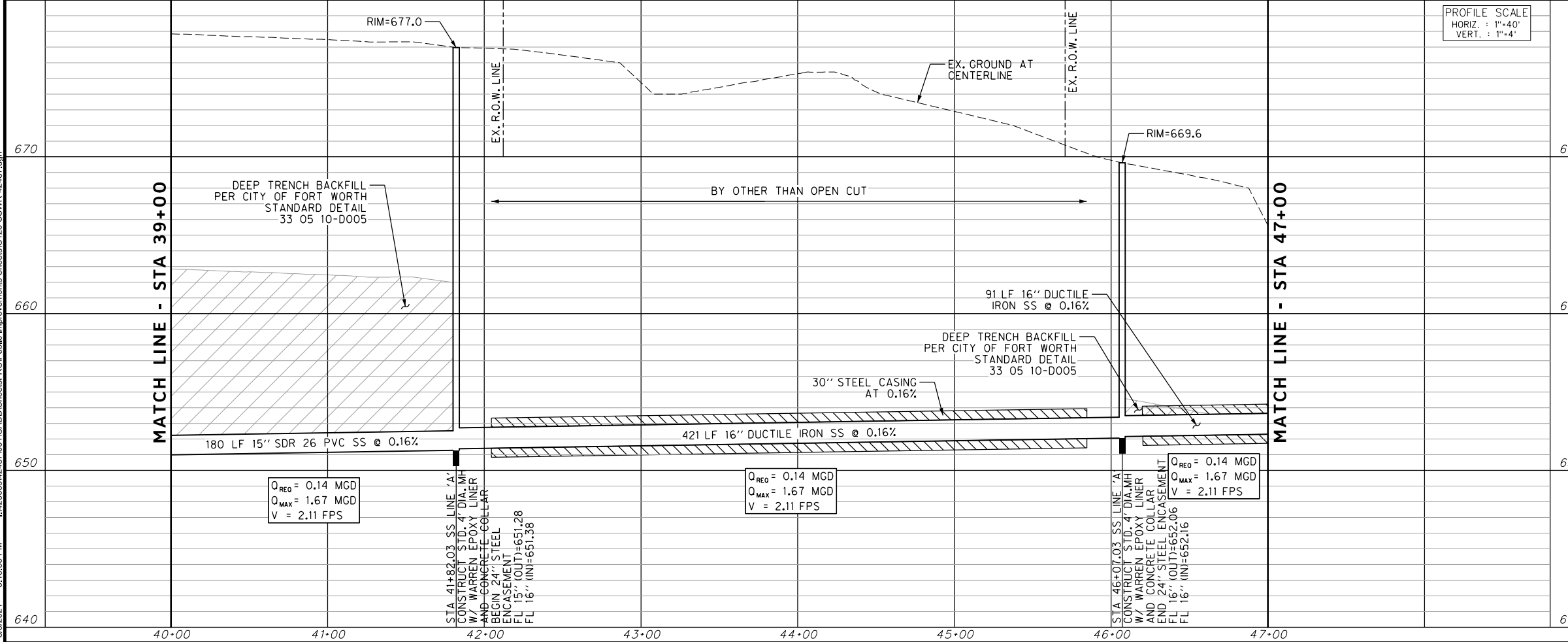
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

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

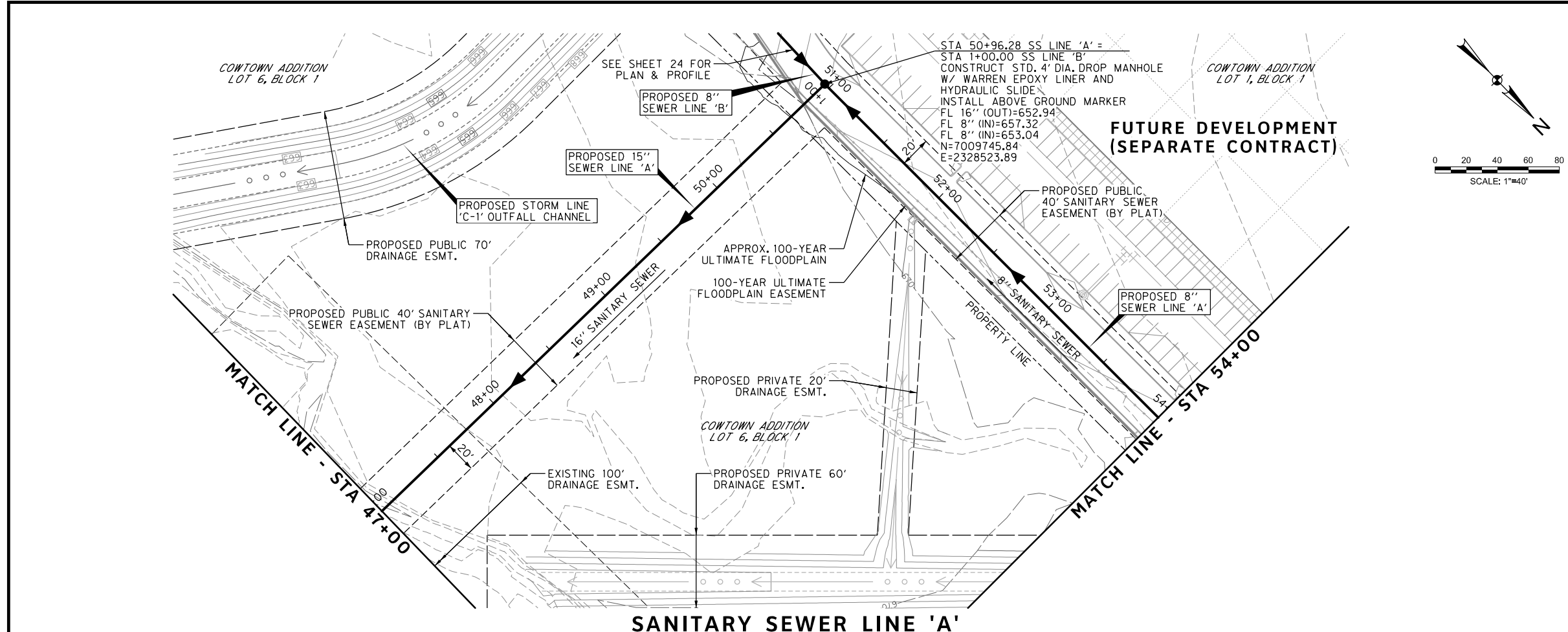
PLAN & PROFILE

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

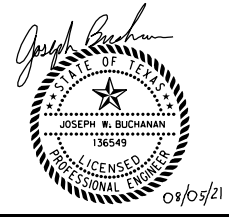
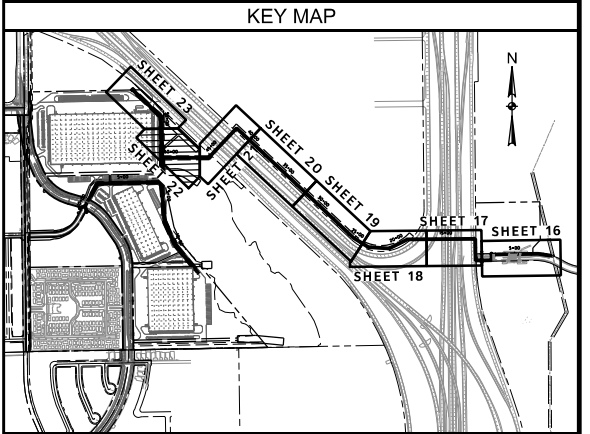
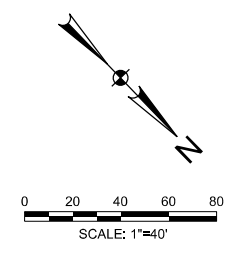
PROFILE SCALE
 HORIZ. : 1"=40'
 VERT. : 1"=4'



8/5/2021 5:13:33 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C126-SS\SWP-42487.dgn

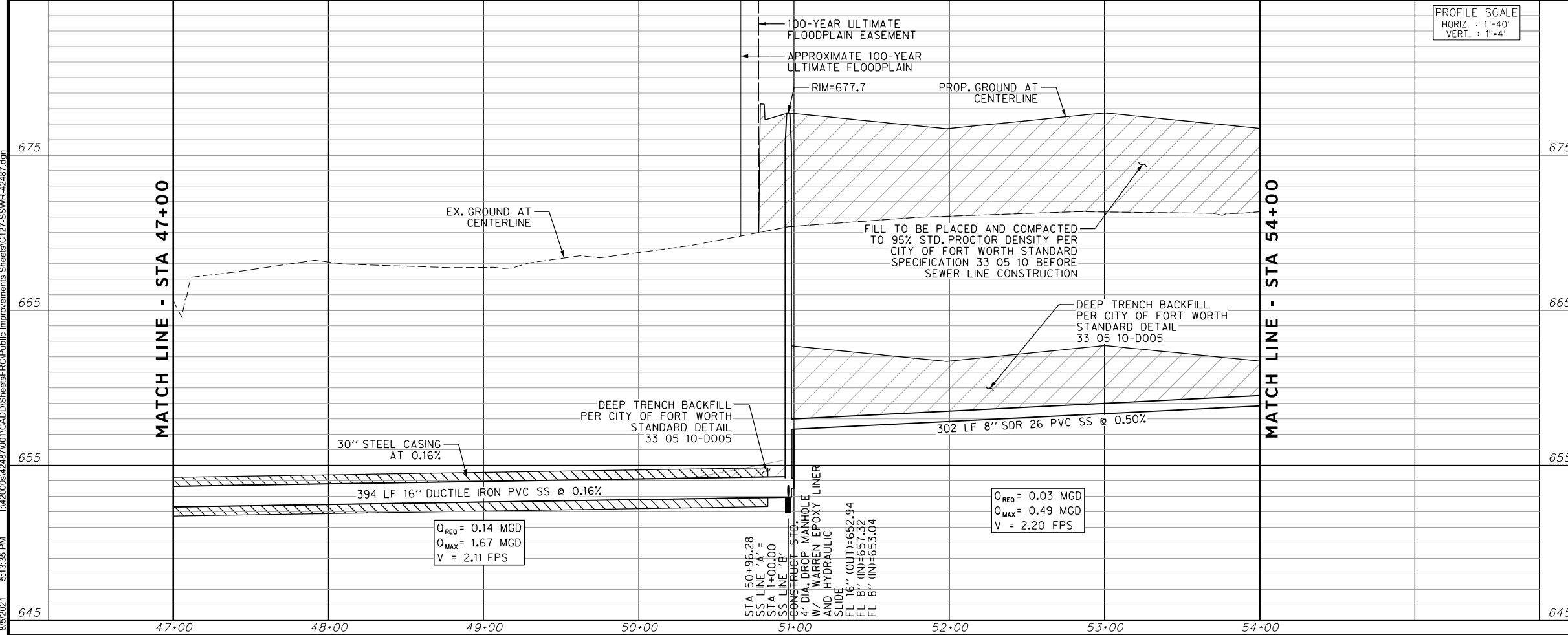


REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104, TBPELS Engineering Firm #312.

SANITARY SEWER LINE 'A'



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

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) 392-8296
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

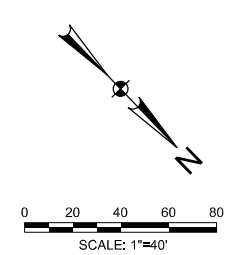
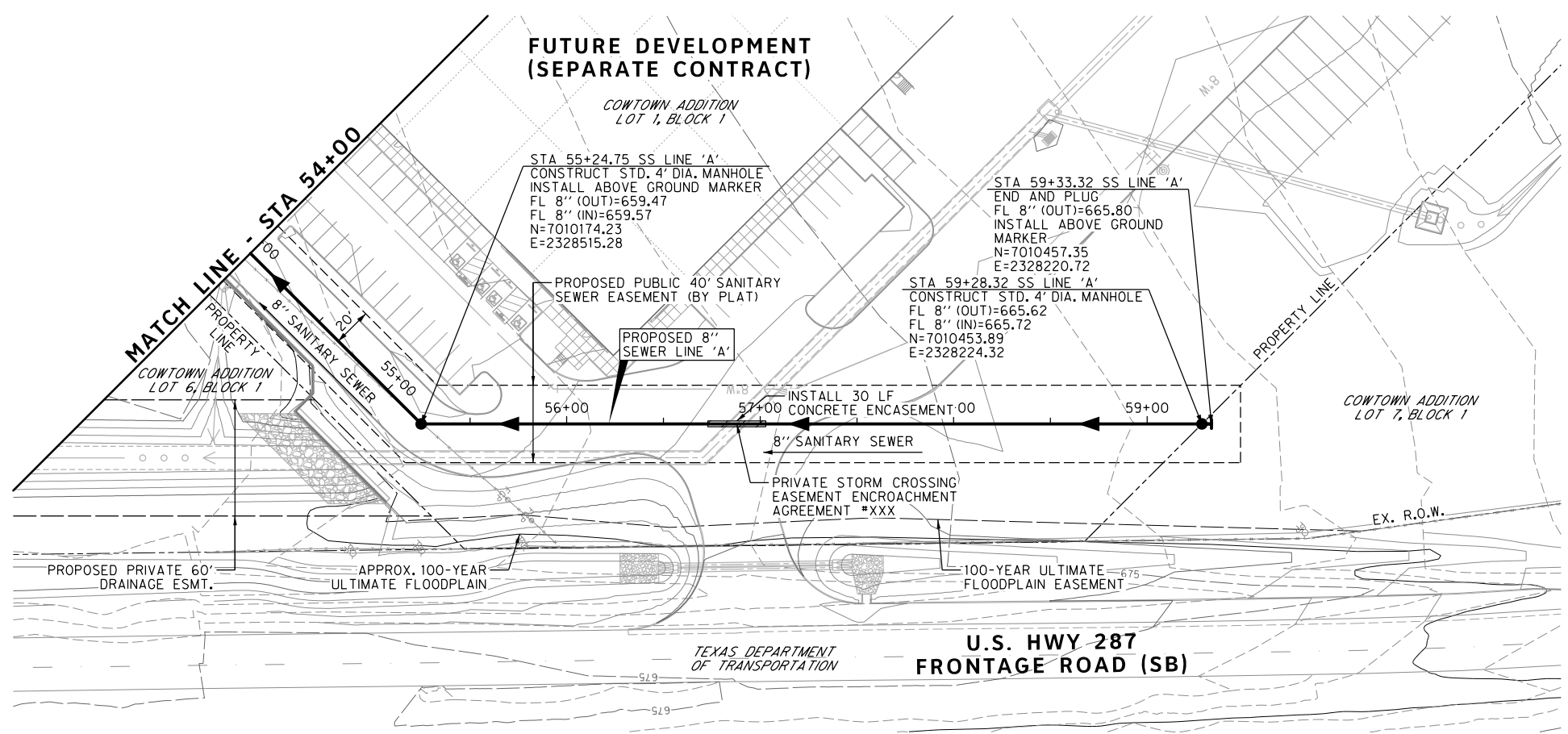
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

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

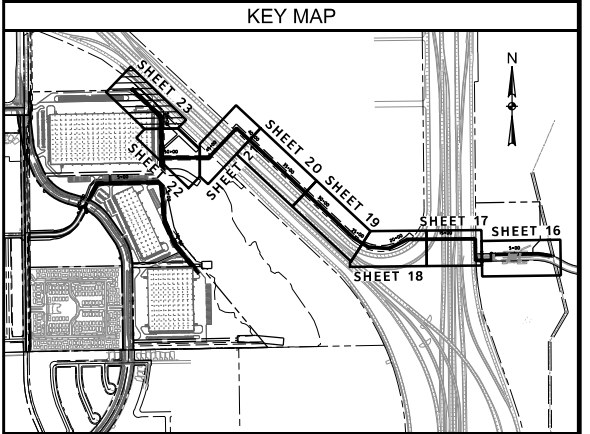
PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET
DRAWN: PTS			22 OF 189

8/5/2021 5:13:35 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C127-SSWR-42487.dgn

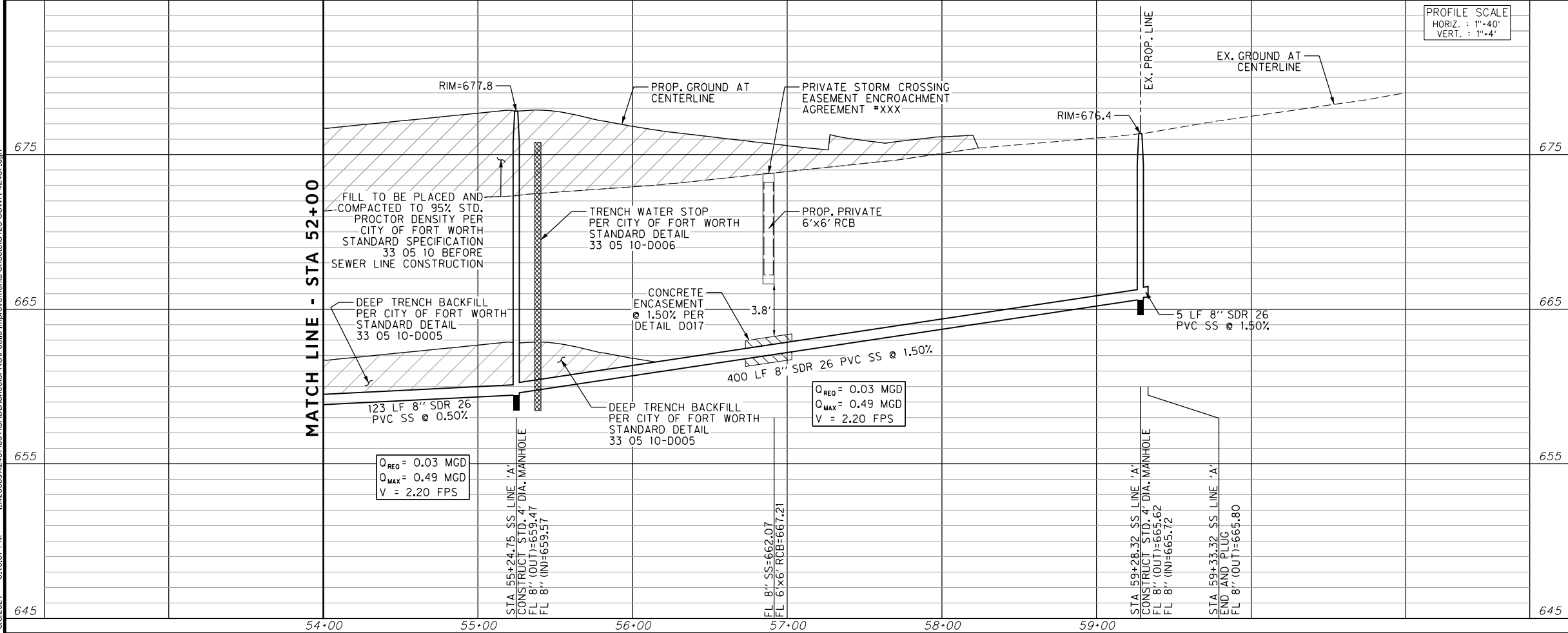


REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TPELS Engineering Firm #312.

SANITARY SEWER LINE 'A'



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

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) 392-8296
 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-XXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

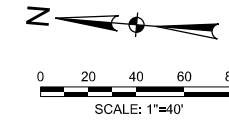
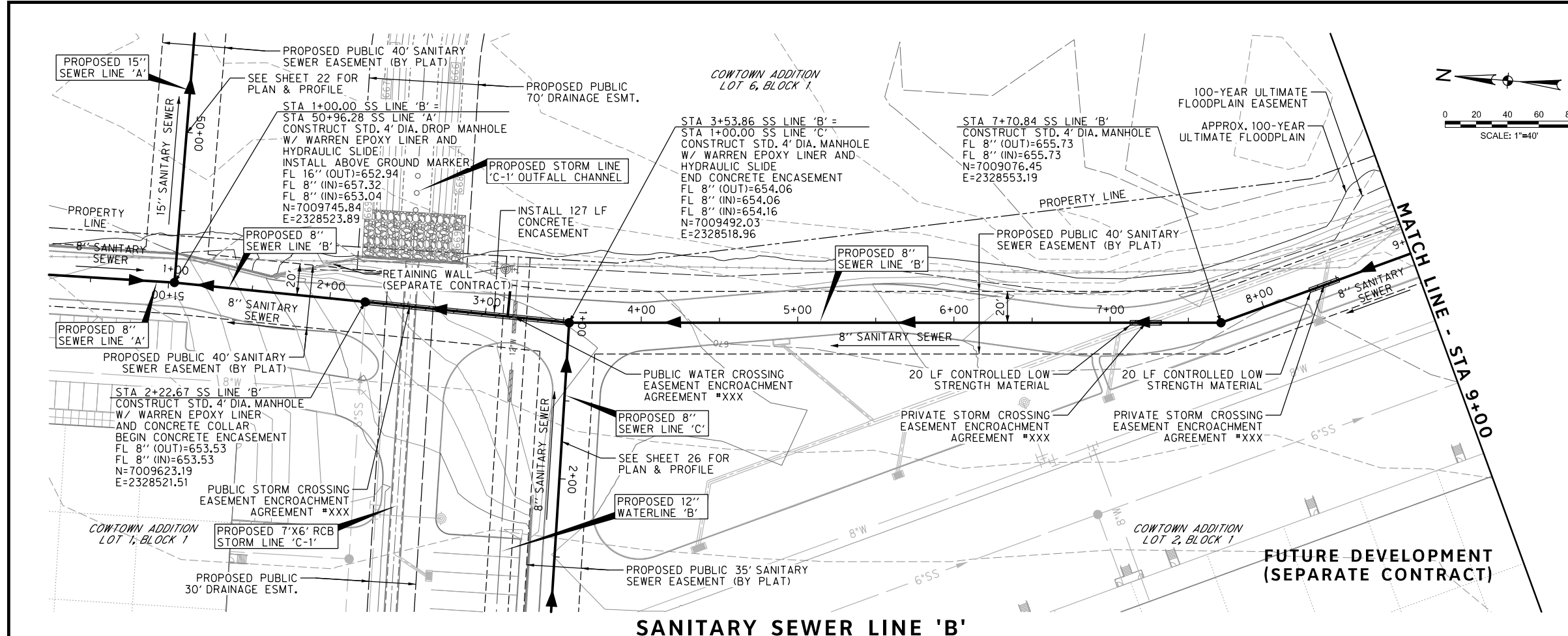
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

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

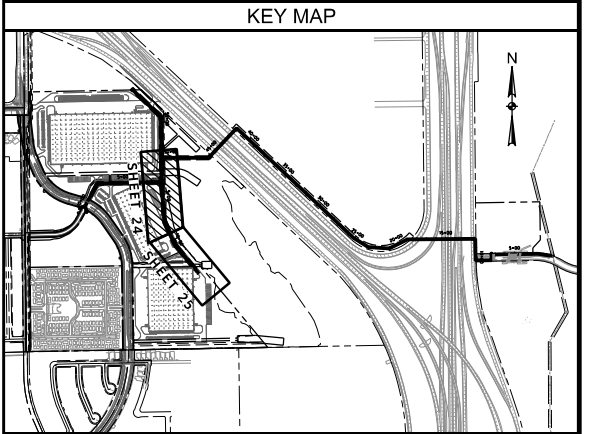
PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 23 OF 189
DRAWN: PTS			

8/5/2021 5:13:37 PM I:\2020\08\24\487\001\CADD\Sheets\FRC\Public Improvements\Sheets\C128-SSWR-42487.dgn



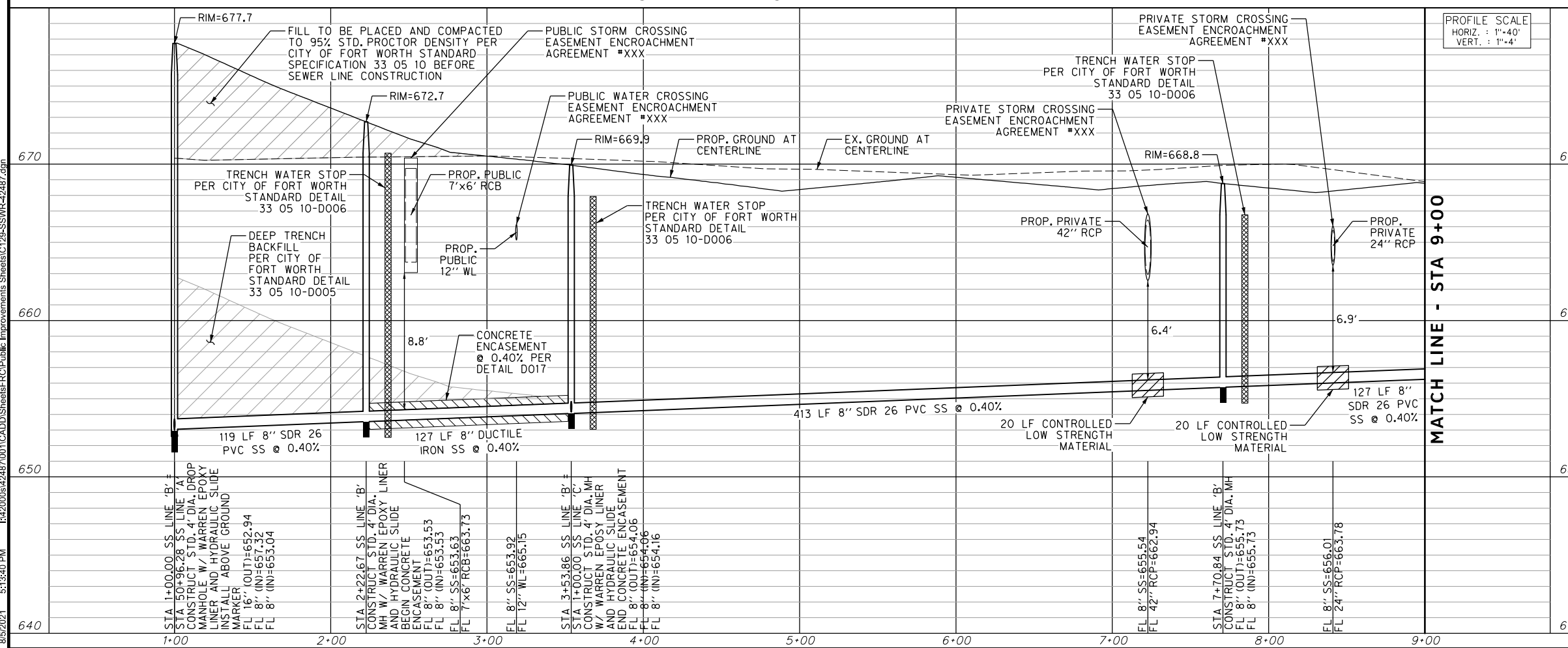
REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104, TIRELS Engineering Firm #312

SANITARY SEWER LINE 'B'

FUTURE DEVELOPMENT (SEPARATE CONTRACT)



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

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) 392-8296
 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' 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

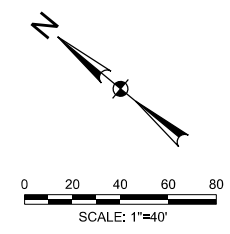
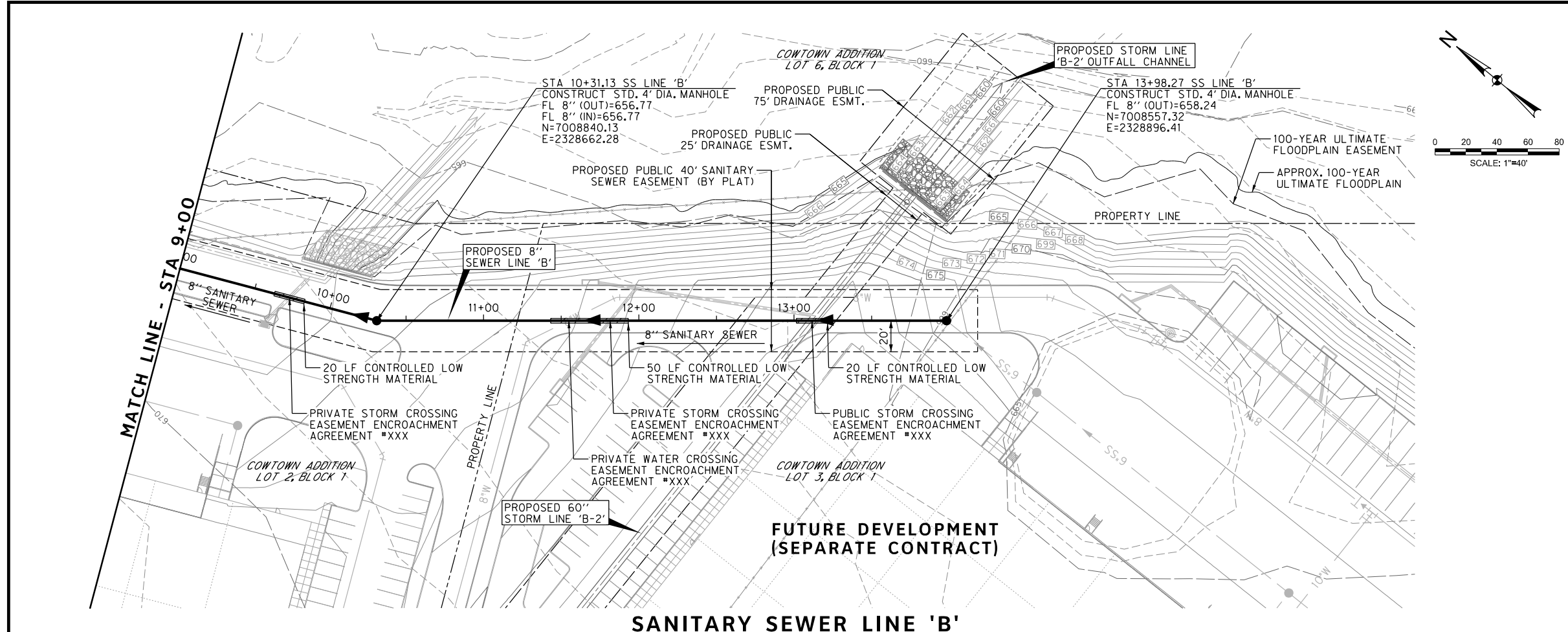
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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
SANITARY SEWER LINE 'B'
 BEGIN TO STA 9+00

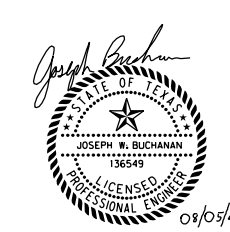
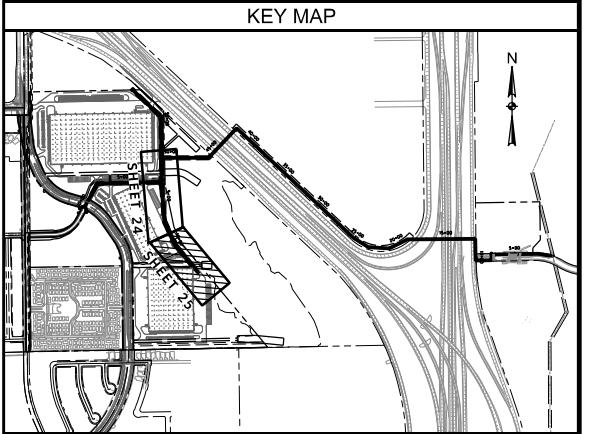
PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 24 OF 189
DRAWN: PTS			

8/5/2021 5:13:40 PM I:\2020\842487\001\CADD\Sheets\FRC\Public Improvements Sheets\C129-SS\SWP-42487.dgn

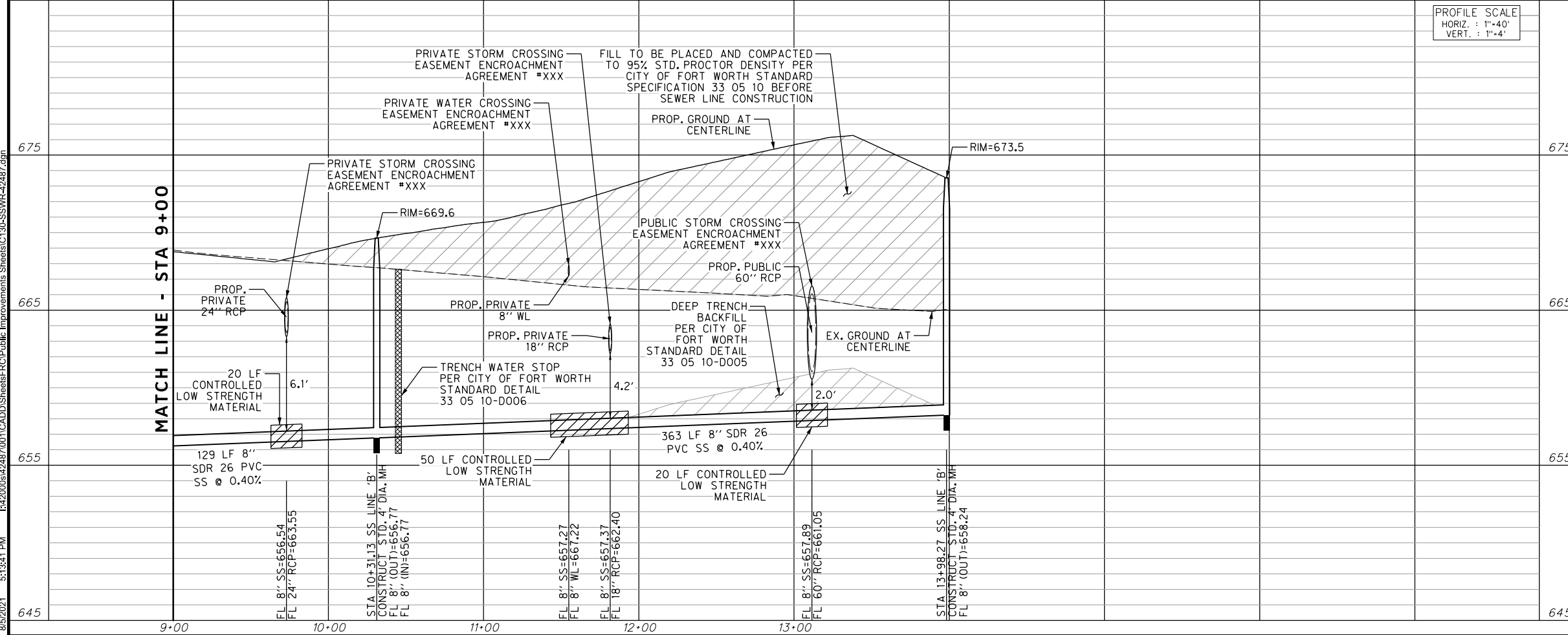


REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Ft. Worth, Texas 76104, TBPELS Engineering Firm #312.

SANITARY SEWER LINE 'B'



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

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) 392-8296
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

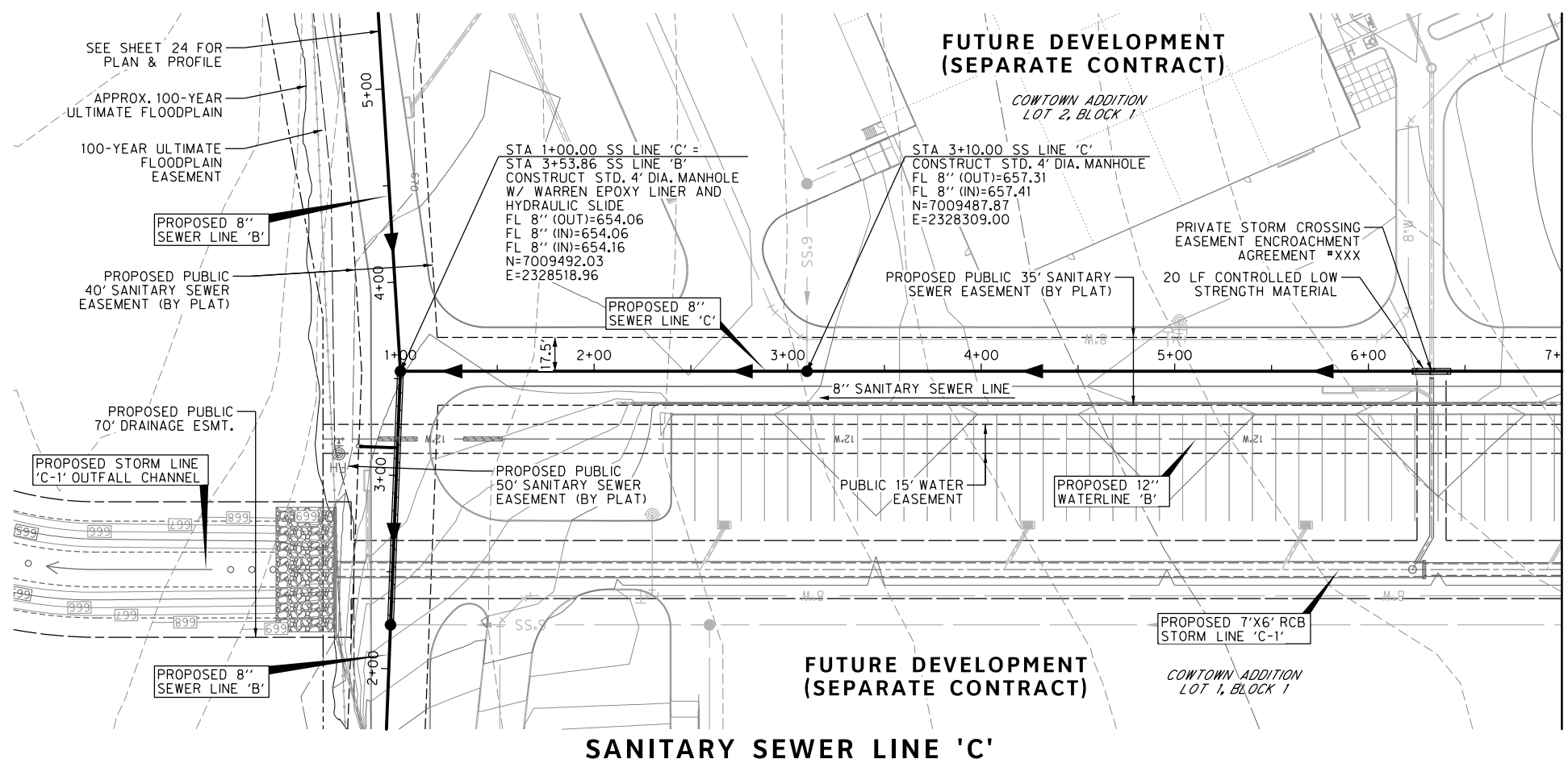
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

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

PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET
DRAWN: PTS			25 OF 189

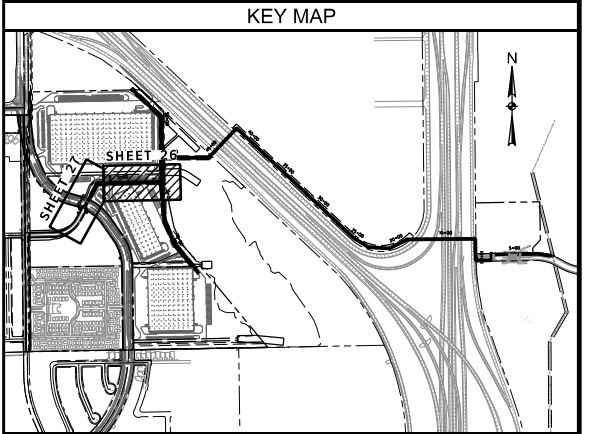
8/5/2021 5:13:41 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C130-SS\SWP-42487.dgn



MATCH LINE - STA 7+00

MATCH LINE - STA 7+00

REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104, TBPELS Engineering Firm #312

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) 392-8296
 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

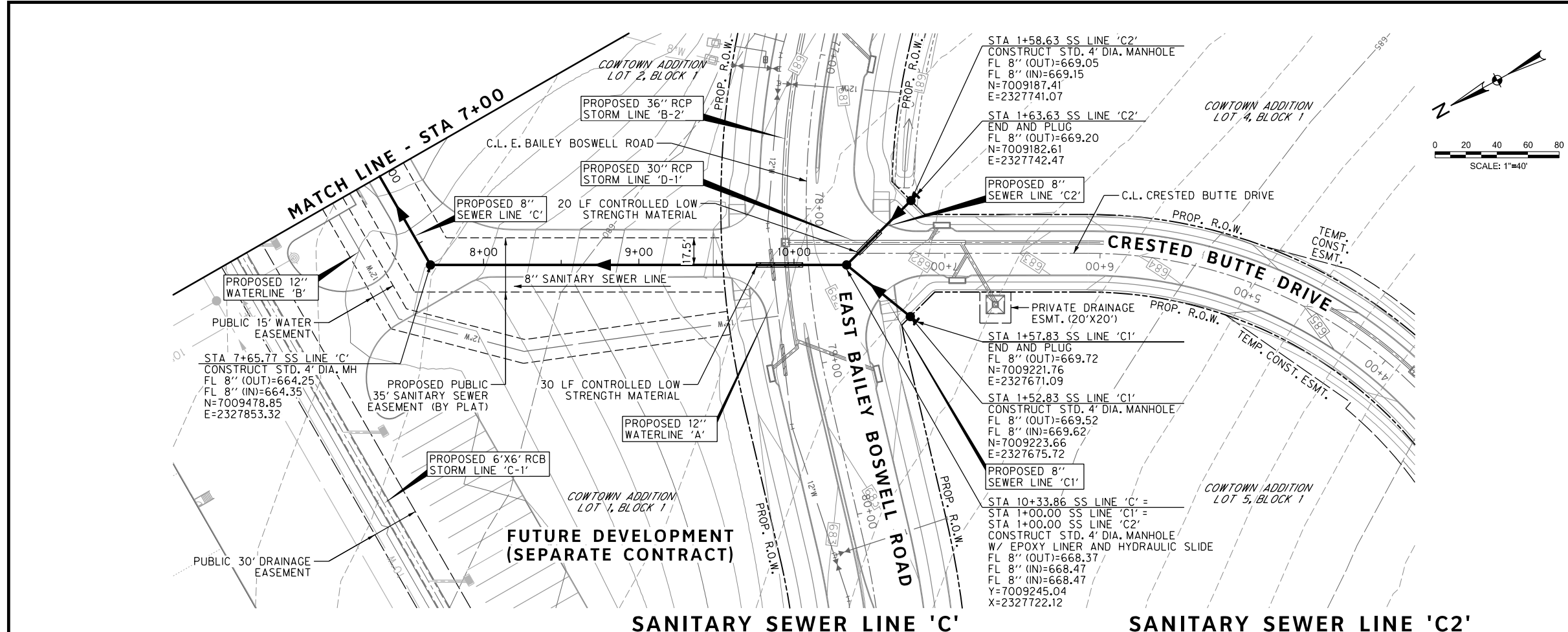
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

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

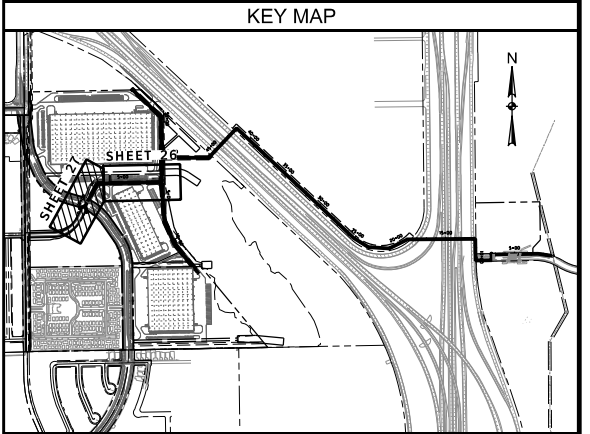
PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 26 OF 189
DRAWN: PTS			

8/5/2021 5:13:43 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C131-SSWR-42487.dgn



REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		

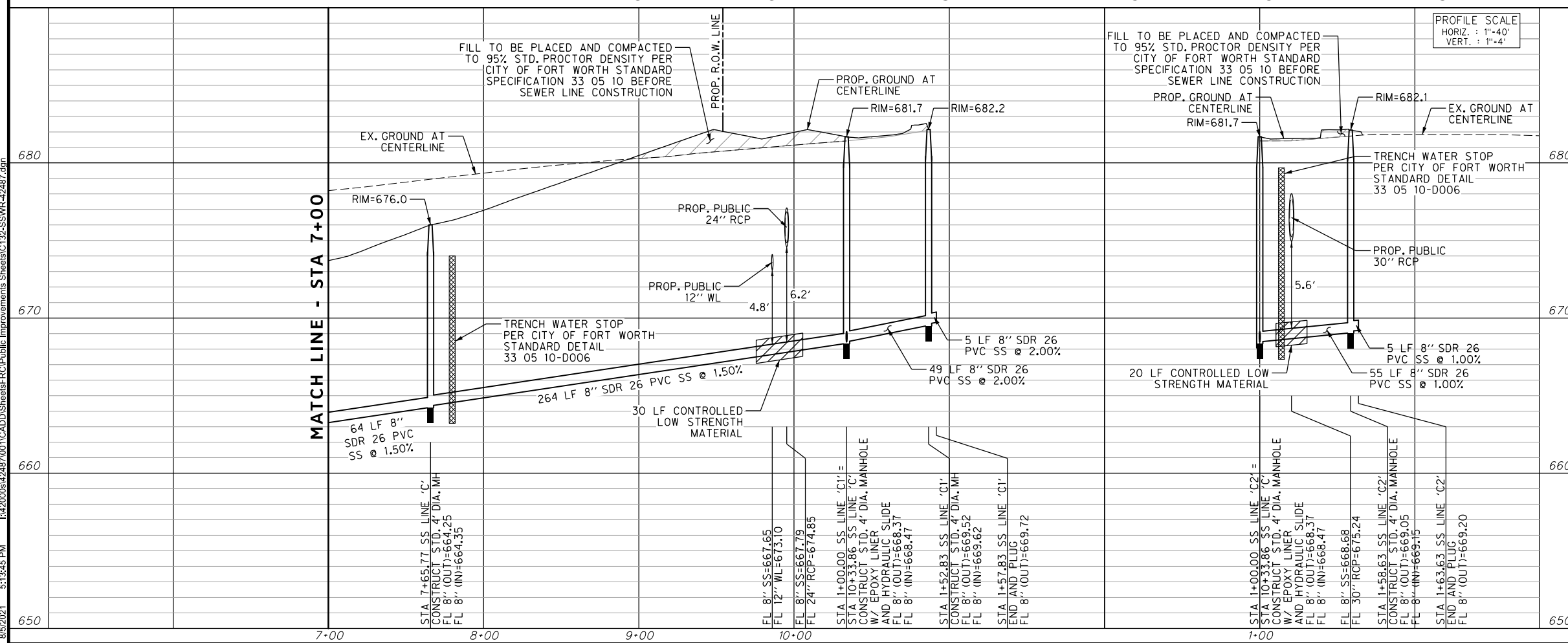


HALFF
 TBPE FIRM #312
 3803 PARKWOOD BLVD., STE 800
 FORT WORTH, TEXAS 76104-8640
 (214) 217-8994

KEY MAP

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

The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104, TBPELS Engineering Firm #312



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) 392-8296
 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

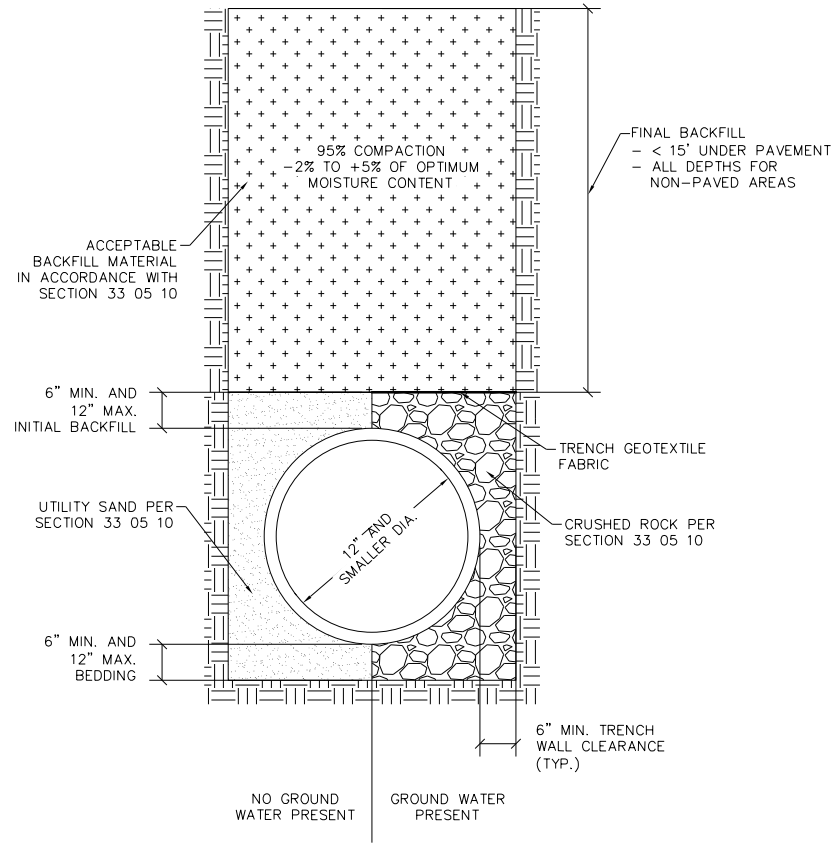
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD
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			

8/5/2021 5:13:48 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C150-DTW&SS-42487.dgn



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

REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBPELS Engineering Firm #312

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) 392-8296
 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
WATER & SANITARY SEWER
 DETAILS (SHEET 1 OF 16)

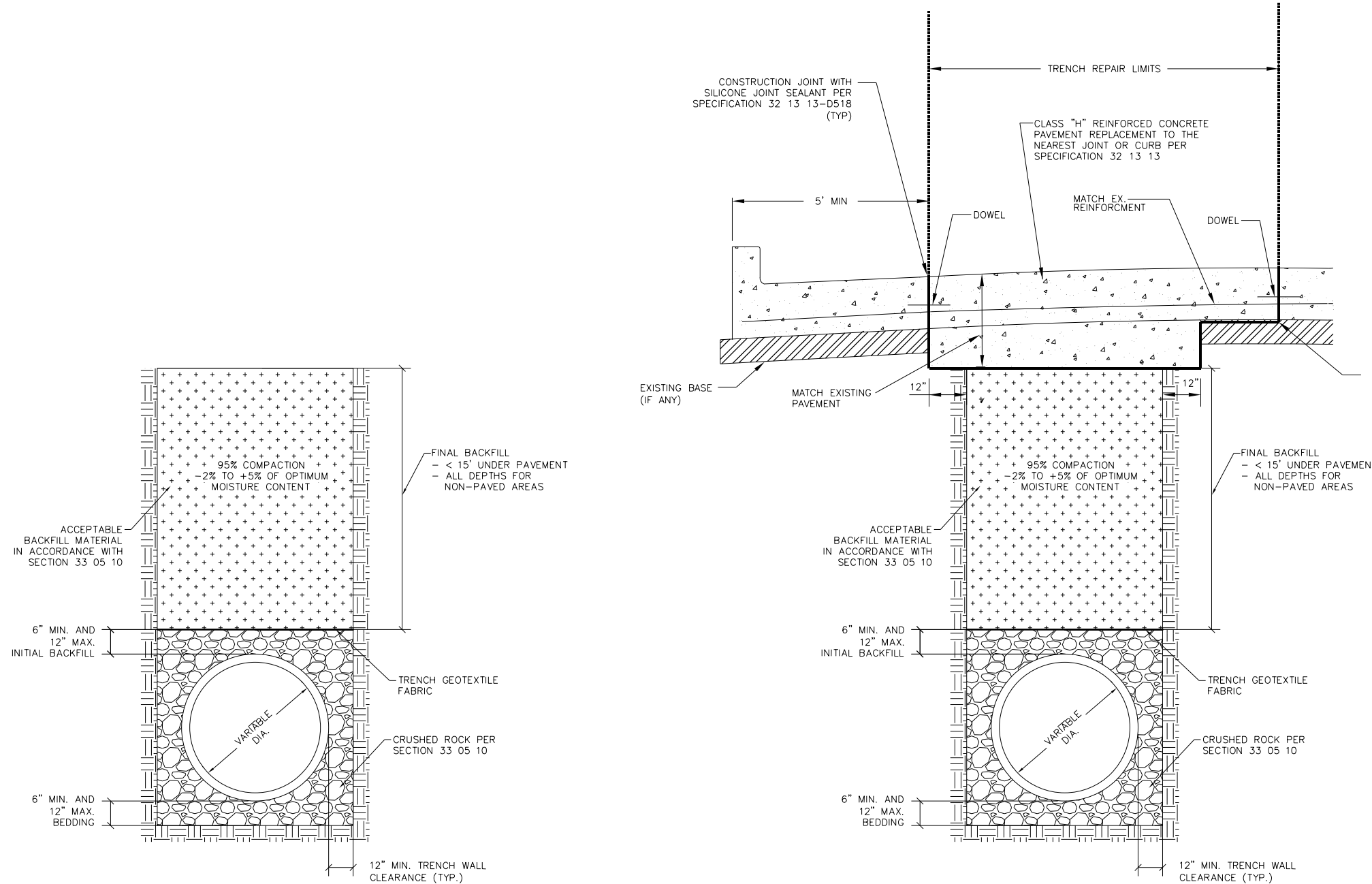
DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 28 OF 189
DRAWN: PTS			

8/5/2021 5:13:49 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C151-DTW&SS-42487.dgn

REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBPELS Engineering Firm #312



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

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) 392-8296
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
WATER & SANITARY SEWER
DETAILS (SHEET 2 OF 16)

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 29 OF 189
DRAWN: PTS			

8/5/2021 5:13:50 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C152-DTW&SS-42487.dgn

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBPEIS Engineering Firm #312

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) 392-8296
 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' 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

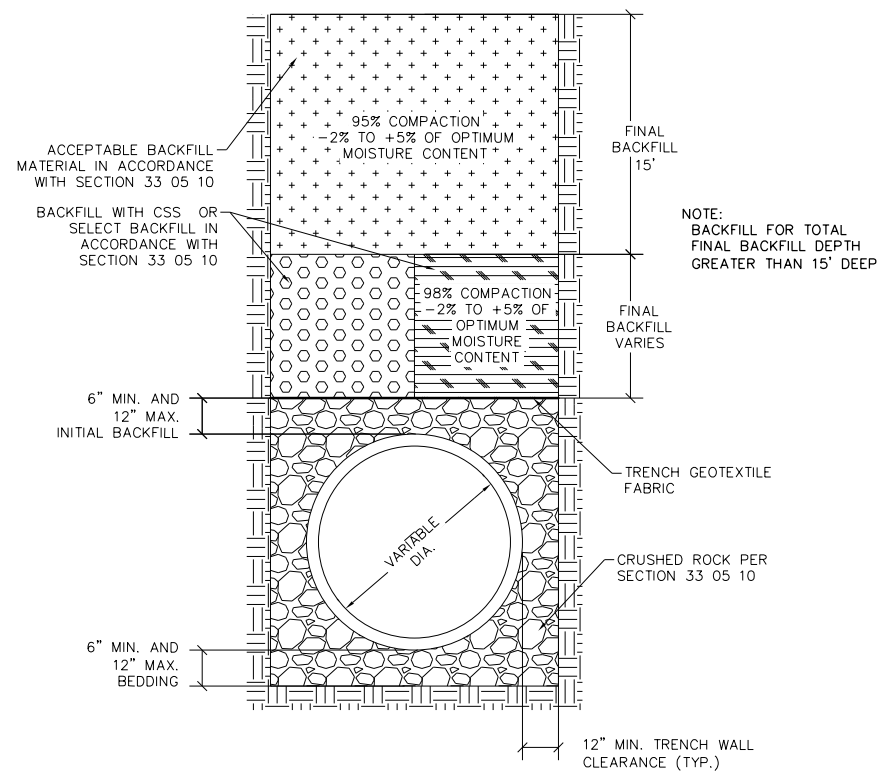
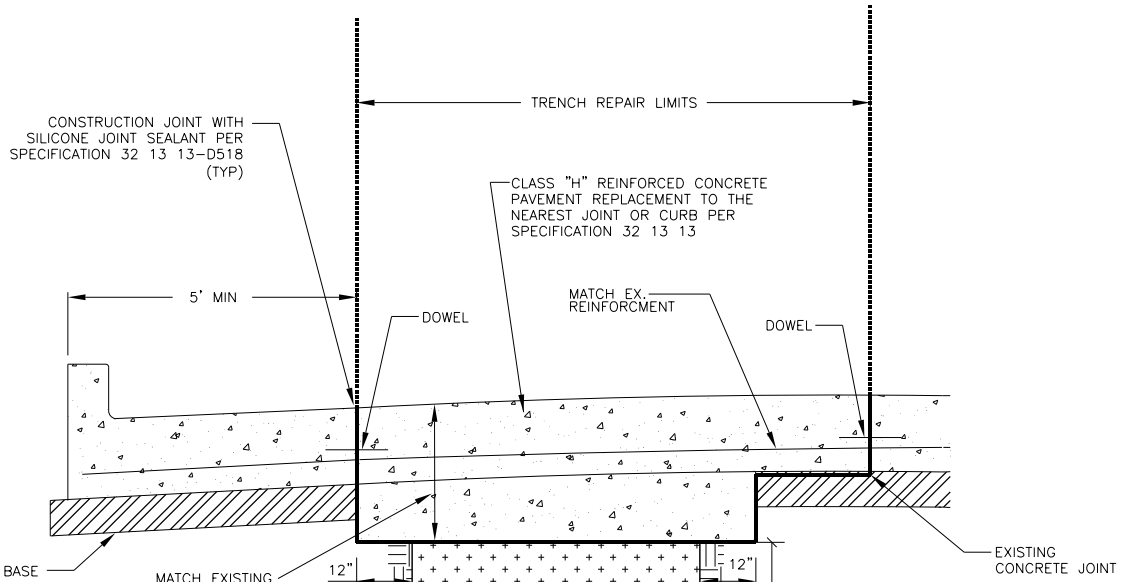
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

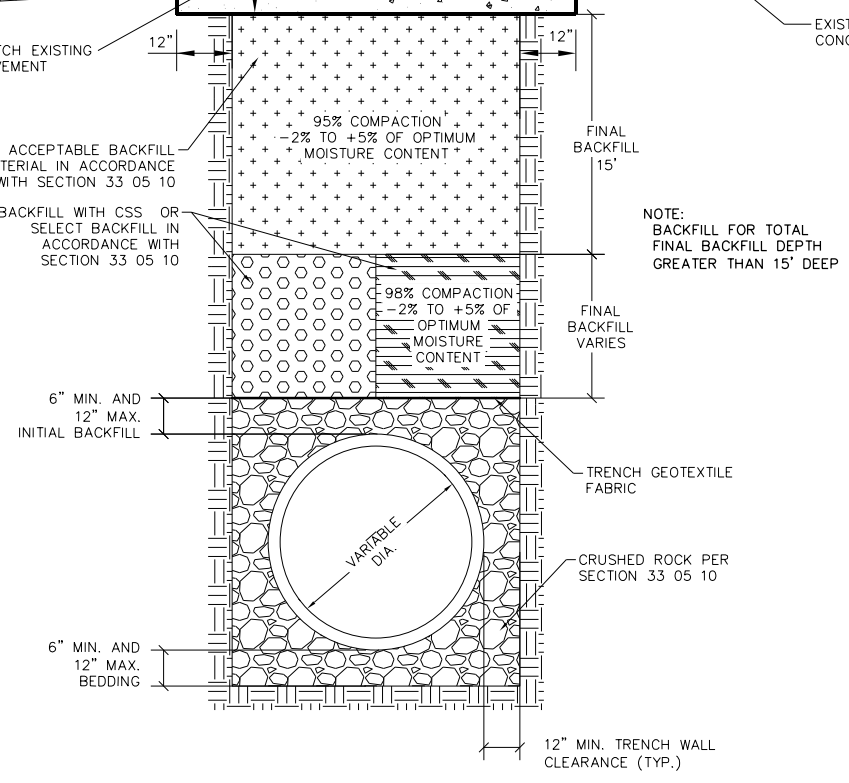
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
WATER & SANITARY SEWER
 DETAILS (SHEET 3 OF 16)

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

8/5/2021 5:13:50 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C152-DTW&SS-42487.dgn



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

8/5/2021 5:13:50 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C153-DTW&SS-42487.dgn

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBPELS Engineering Firm #312

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) 392-8296
 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

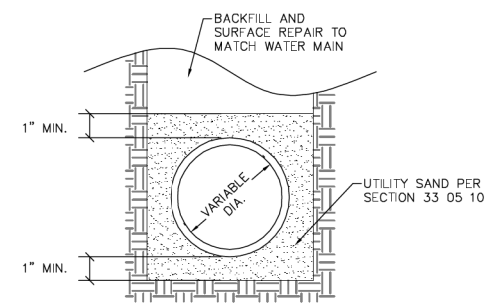
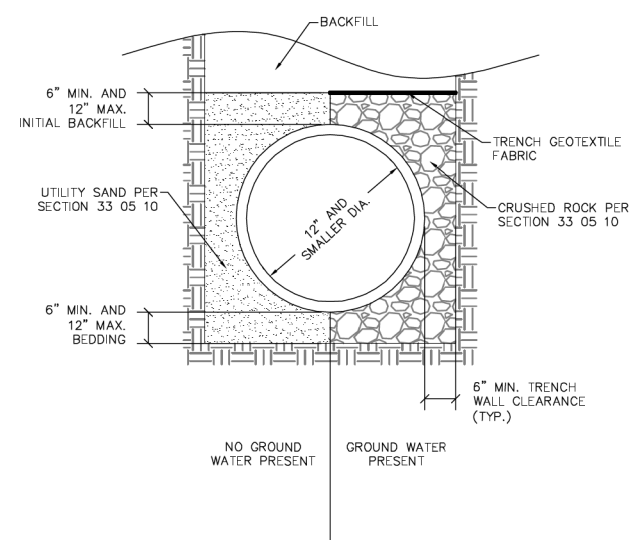
CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

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

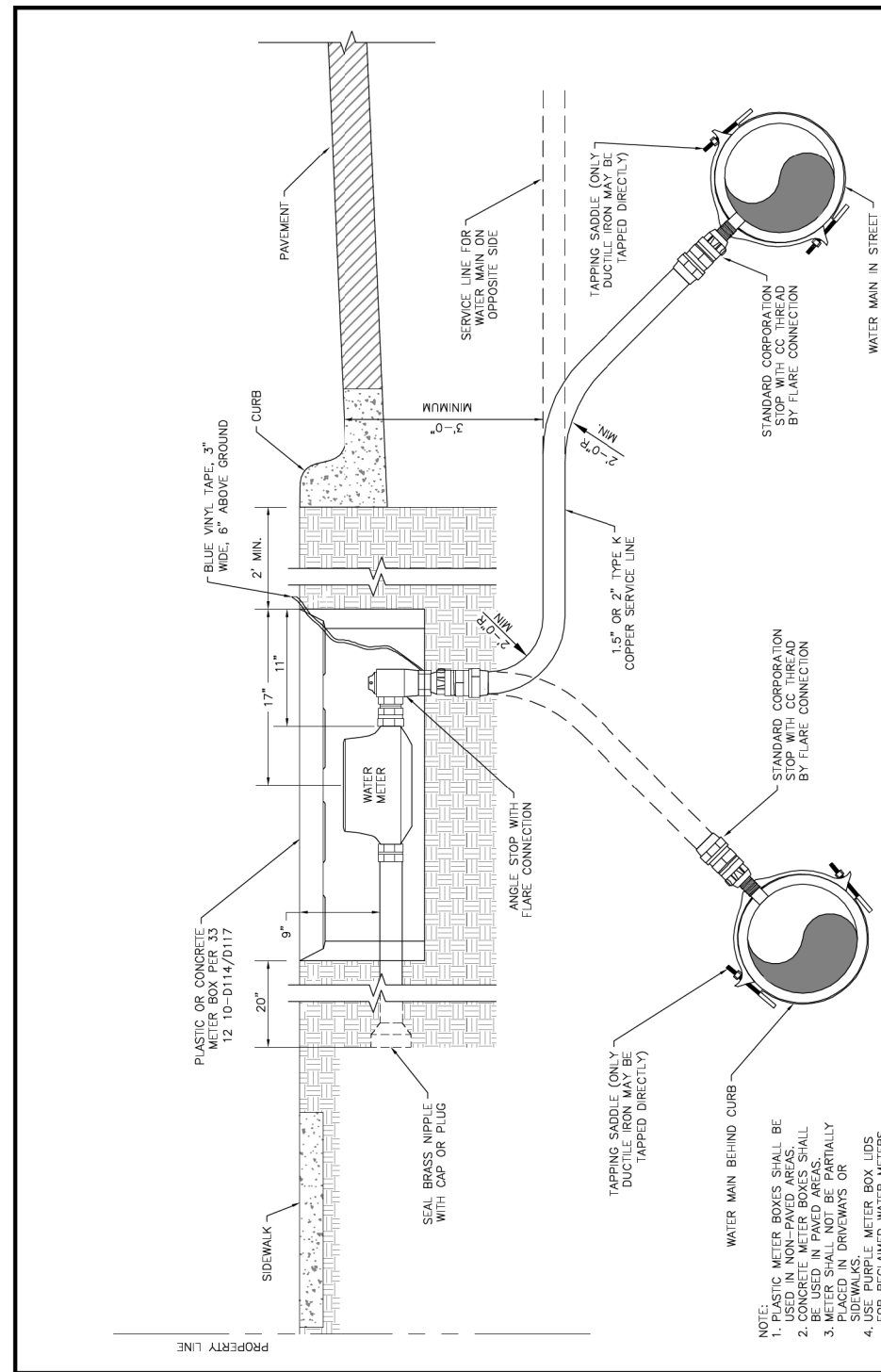
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
WATER & SANITARY SEWER
 DETAILS (SHEET 4 OF 16)

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



	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

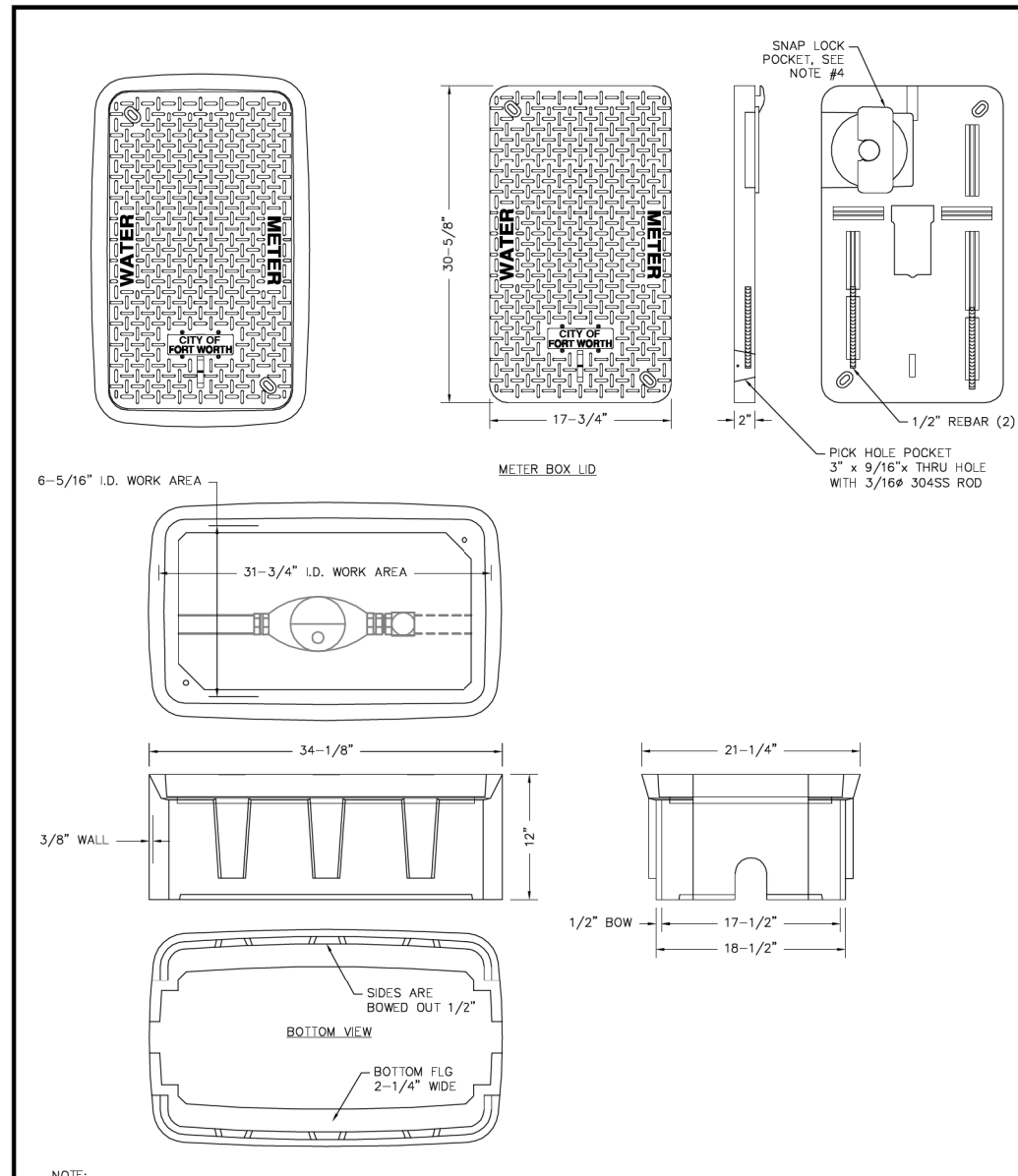


REVISED: 08-31-2012
33 12 10-D112

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:
1. USE THIS METER BOX IN NON-PAVED AREAS ONLY.
2. DIMENSIONS ± 1/8" U.N.O.
3. WALL THICKNESS: 3/8"
4. SNAP LOCK POCKET WILL RECEIVE AMR/AMI DEVICE ENDPOINT. SNAP LOCK SLOT IS 1.80" ± .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

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034. TBPELS Engineering Firm #312

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) 392-8296
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' 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-XXXXXXXXXX	119E AND 119F
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXX	
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXX	
MAP NO. XXXX-XXX	

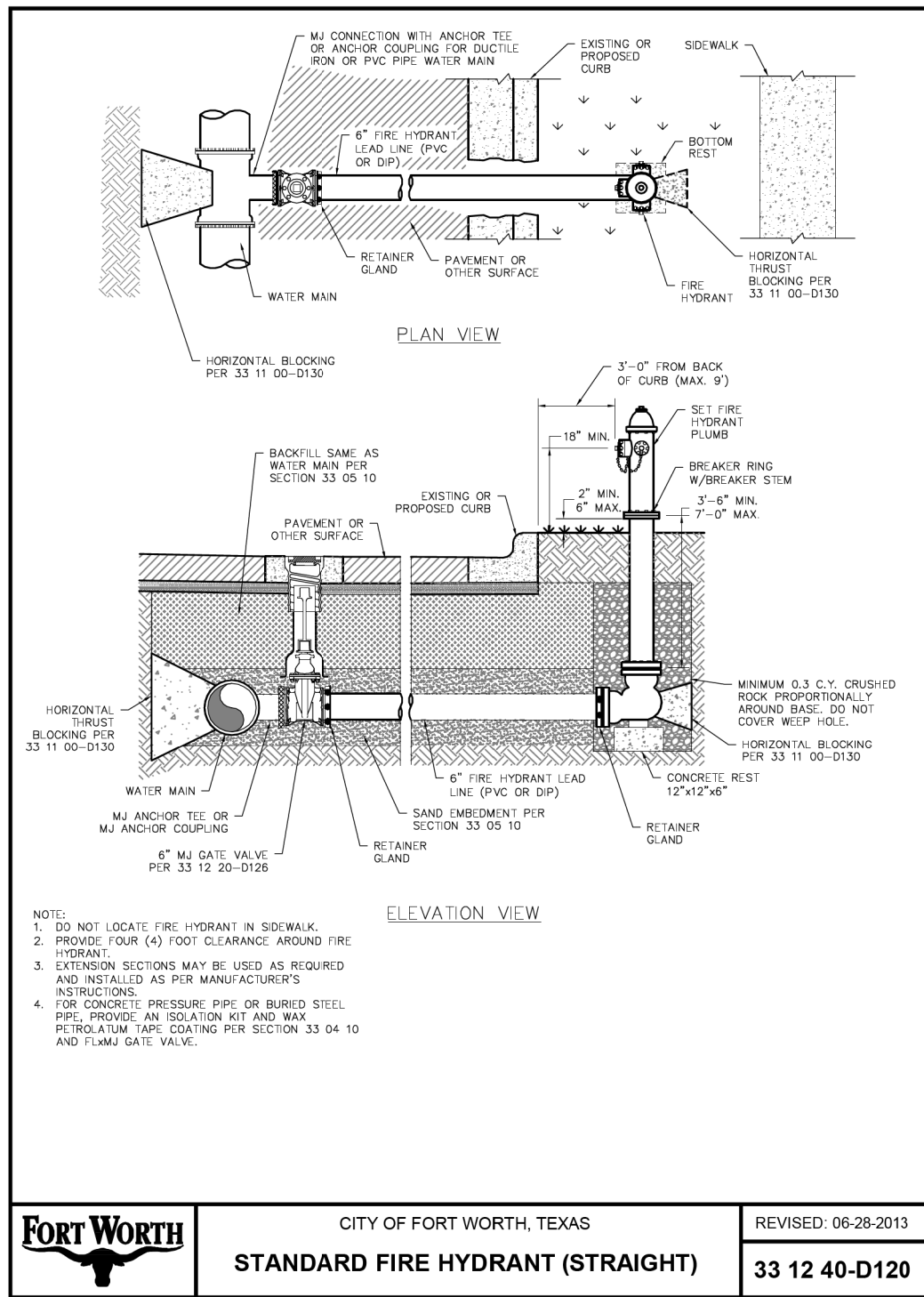
CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

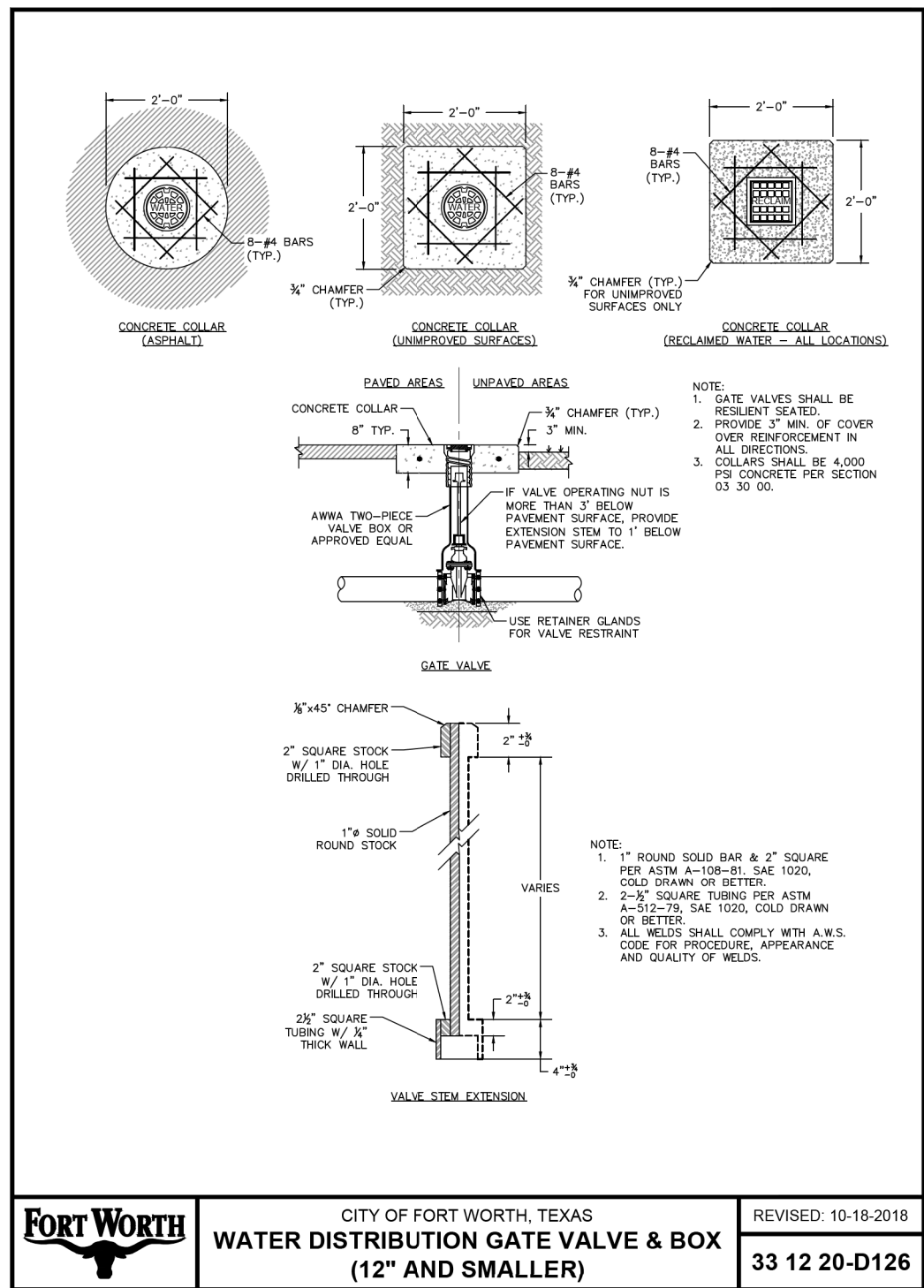
EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
WATER & SANITARY SEWER
DETAILS (SHEET 5 OF 16)

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

8/5/2021 5:14:01 PM I:\2020\08\24\487\001\CADD\Sheets\FRC\Public Improvements Sheets\C155-DTW&SS-42487.dgn



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



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

REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E., 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104, TRBELS Engineering Firm #312.

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) 392-8296
 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
WATER & SANITARY SEWER
 DETAILS (SHEET 6 OF 16)

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

8/5/2021 5:14:07 PM I:\420086\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C156-DTW&S-42487.dgn

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBEELS Engineering Firm #312

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) 392-8296
 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

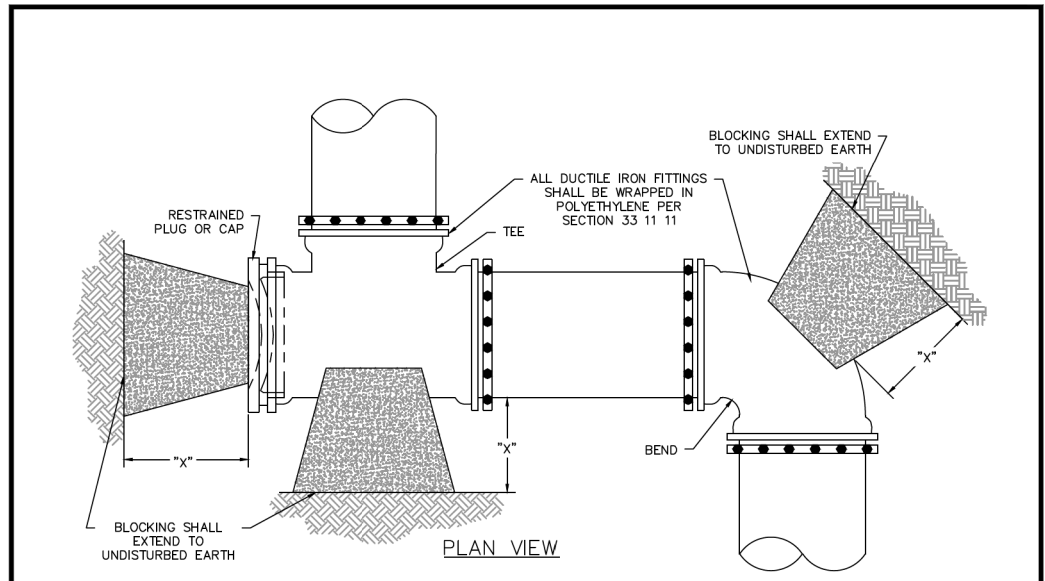
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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
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)	90° BENDS	45° BENDS	22.5° BENDS	11.25° BENDS
			MIN. AREA (SF)	MIN. AREA (SF)	MIN. AREA (SF)	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	6.83	4.43
20"	2'-0"	35.34	49.98	27.05	13.79	6.93
24"	2'-0"	50.89	71.97	39.95	19.86	9.98

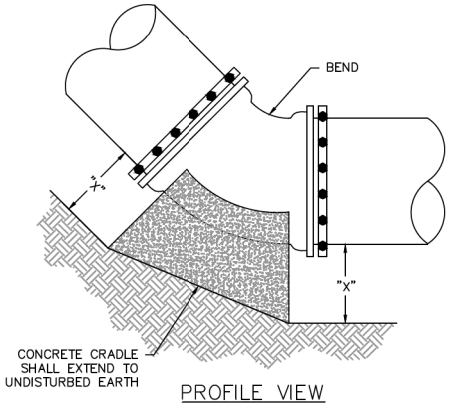
*MINIMUM THRUST BLOCKING SURFACE AREA SHALL BE 4 SQUARE FEET.
 **DIMENSION "X" TO BE A MINIMUM OF ONE FOOT AND SIX INCHES, BUT IS TO BE INCREASED WHERE NECESSARY TO PROVIDE BEARING AGAINST UNDISTURBED TRENCH WALL.

- 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
HORIZONTAL THRUST BLOCKING

REVISED: 12-30-2016
33 11 00-D130



PIPE SIZE	"X" DIM.**	90° BENDS	45° BENDS	22.5° BENDS	11.25° BENDS
		MIN. AREA (SF)	MIN. AREA (SF)	MIN. AREA (SF)	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	6.83	4.43
20"	2'-0"	49.98	27.05	13.79	6.93
24"	2'-0"	71.97	39.95	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.

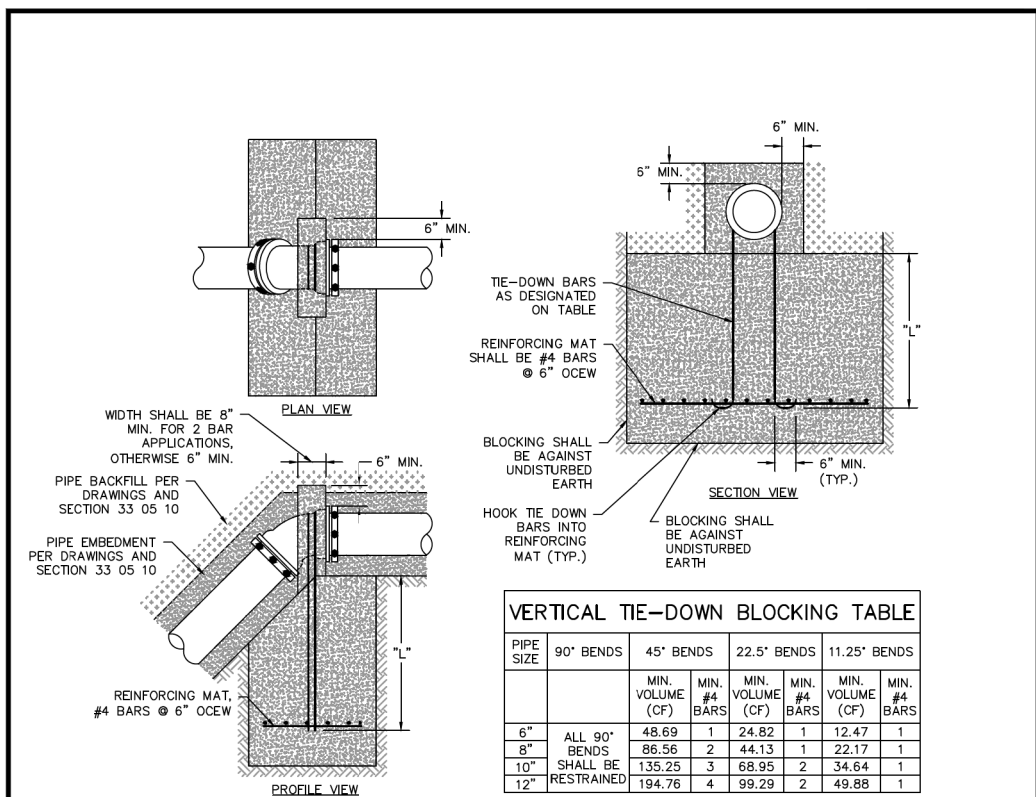
- NOTES:
- THRUST BLOCKING AREAS SHOWN ARE BASED ON:
 - 225 PSI TEST PRESSURE
 - 3,000 PSF HORIZONTAL OR LATERAL BEARING PRESSURE FOR ACCEPTABLE SOILS
 - MINIMUM COVER OF 42"
 - A SAFETY FACTOR OF 1.5.
 - THE ENGINEER SHALL PROVIDE A SEPARATE BLOCKING TABLE WHEN THE CONDITIONS DO NOT MEET THE ABOVE ASSUMPTIONS.
 - 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
CONCRETE CRADLE

REVISED: 12-30-2016
33 11 00-D131

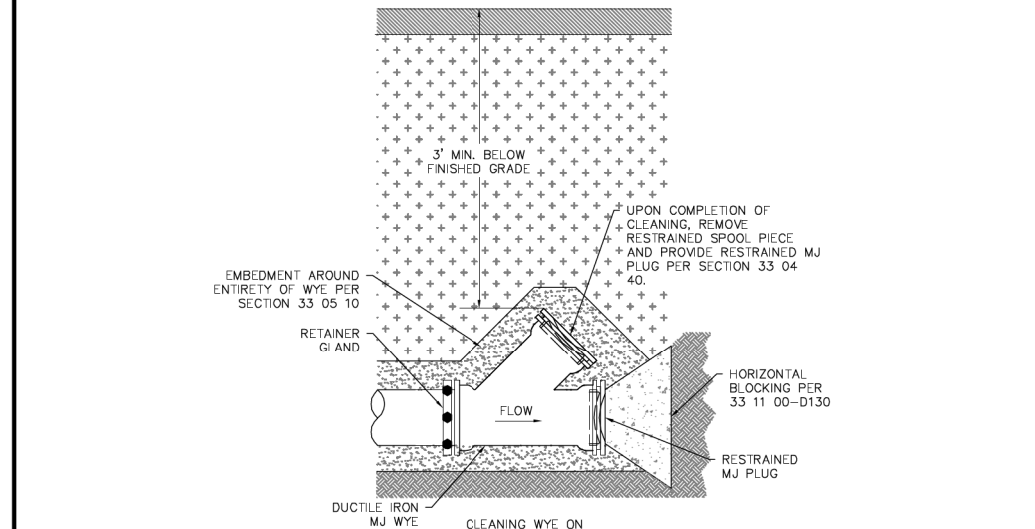
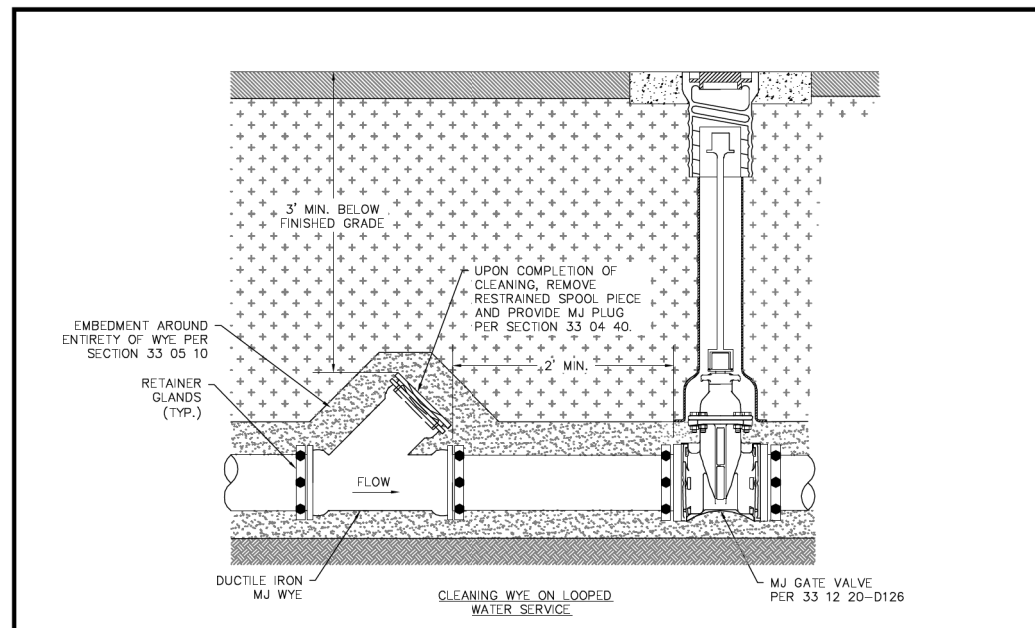
8/5/2021 5:14:14 PM I:\2020\08\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C157-DTW&SS-42487.dgn



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.

FORT WORTH	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.

FORT WORTH	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
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TIRELS Engineering Firm #312

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) 392-8296
 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

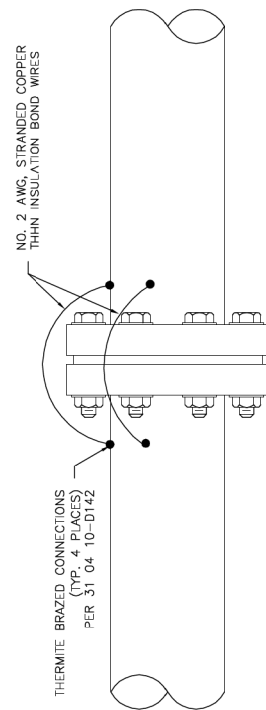
HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT' 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
DRAWN: PTS			

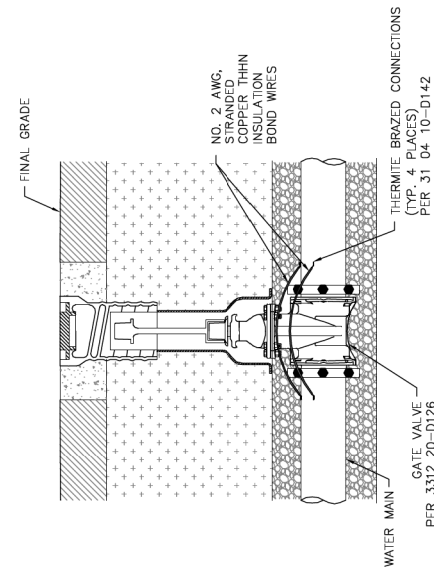


NOTE:
1. BOND WIRES SHALL BE PLACED A MINIMUM OF 6" APART.



CITY OF FORT WORTH, TEXAS
**ELECTRICAL BONDING
ACROSS FLANGE**

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



NOTE:
1. BOND WIRES SHALL BE PLACED A MINIMUM OF 6" APART.

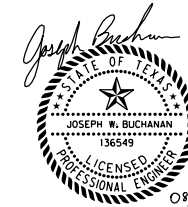


CITY OF FORT WORTH, TEXAS
**ELECTRICAL BONDING
ACROSS VALVE**

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

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TIRELS Engineering Firm #312

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 LISTED 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) 392-8296
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' 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-XXXXXXXXXX
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
MAP NO. XXXX-XXX

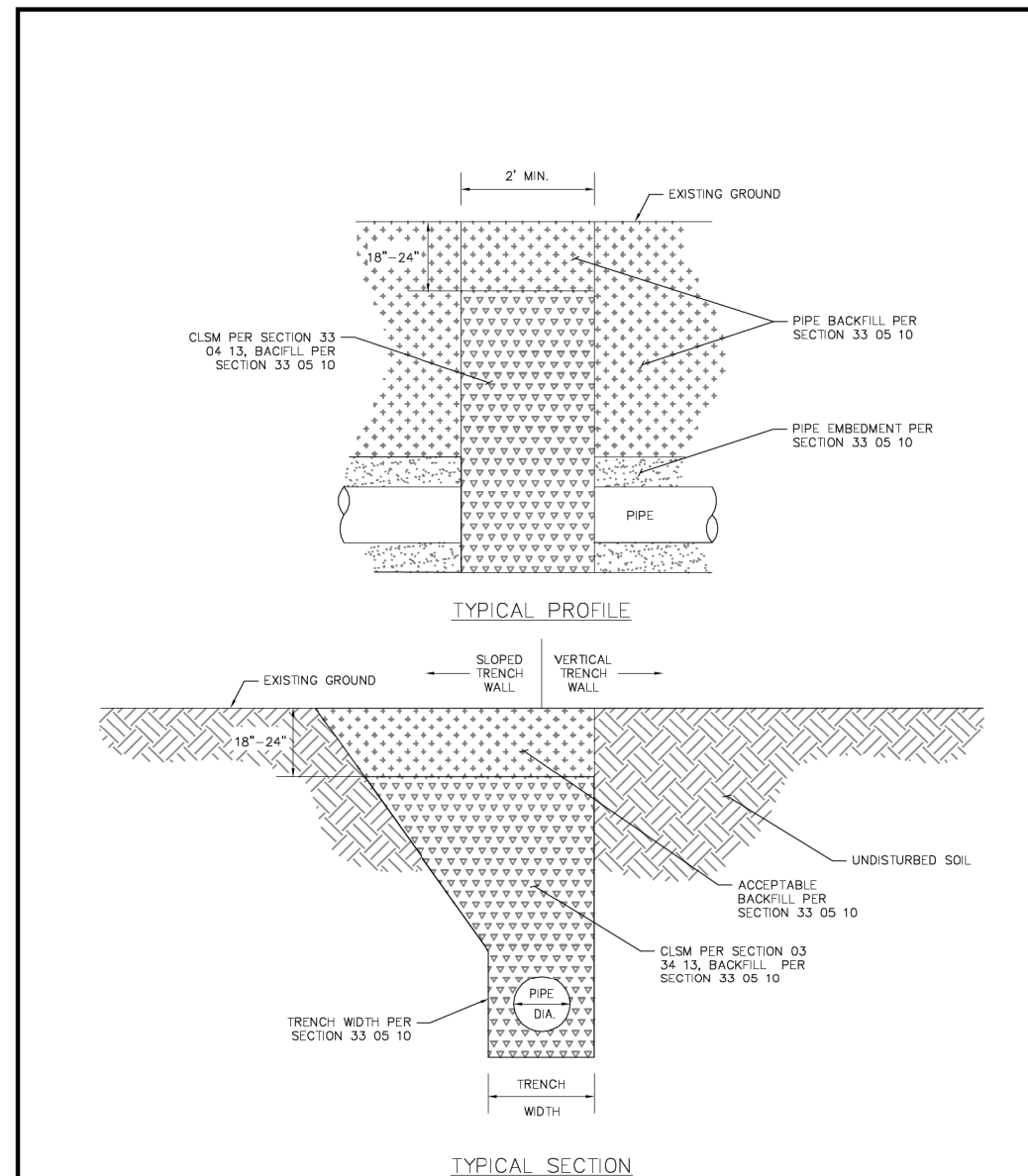
CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

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

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

8/5/2021 5:14:27 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C159-DTW&SS-42487.dgn

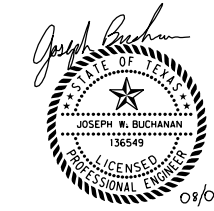


	CITY OF FORT WORTH, TEXAS	REVISED: 08-31-2012
	TRENCH WATER STOP	33 05 10-D006

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		

TBPE FIRM #F-312
 3803 PARKWOOD BLVD., STE 800
 FRISCO, TEXAS 75034-8640
 (214) 217-8994



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBPELS Engineering Firm #312

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) 392-8296
 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' 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

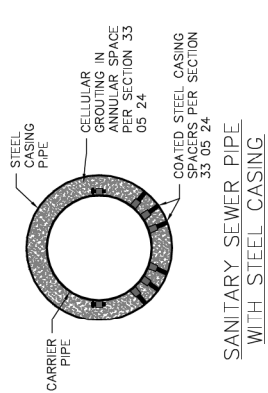
DOE # _____ K-2840
 CITY PROJECT # 103320 MAPSCO NO. _____
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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
WATER & SANITARY SEWER
 DETAILS (SHEET 10 OF 16)

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

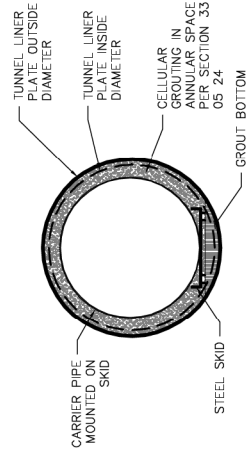
NOMINAL CARRIER PIPE SIZE	SDR 26 PVC PIPE BELL OD	MIN. CASING DI STEEL ID	DI PIPE BELL OD	MIN. CASING STEEL ID	FIBERGLASS COUPLING OD	MIN. CASING STEEL ID
8"	9.692"	16"	11.16"	16"	—	—
10"	12.116"	20"	13.25"	20"	—	—
12"	14.424"	20"	15.22"	20"	—	—
15"	17.652"	24"	—	—	—	—
16"	—	—	19.86"	24"	—	—
18"	—	—	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"	39.5"	48"
42"	—	—	48.27"	54"	45.9"	54"
48"	—	—	—	—	—	—
54"	—	—	—	—	—	—
60"	—	—	—	—	—	—
66"	—	—	—	—	—	—
72"	—	—	—	—	—	—
78"	—	—	—	—	—	—
84"	—	—	—	—	—	—
90"	—	—	—	—	—	—
96"	—	—	—	—	—	—
103.1"	—	—	—	—	—	—

NOMINAL CARRIER PIPE SIZE	DI PIPE BELL OD	NOMINAL TLP Ø	ES FIBERGLASS PIPE COUPLING NOMINAL TLP Ø
18"	22.16"	48"	21.3"
20"	24.28"	48"	23.4"
21"	—	—	—
24"	28.50"	48"	27.6"
27"	—	—	—
30"	34.95"	52"	29.8"
36"	41.37"	58"	33.9"
42"	48.27"	66"	40.2"
48"	—	—	—
54"	—	—	—
60"	—	—	—
66"	—	—	—
72"	—	—	—
78"	—	—	—
84"	—	—	—
90"	—	—	—
96"	—	—	—
103.1"	—	—	—



SANITARY SEWER PIPE WITH STEEL CASING

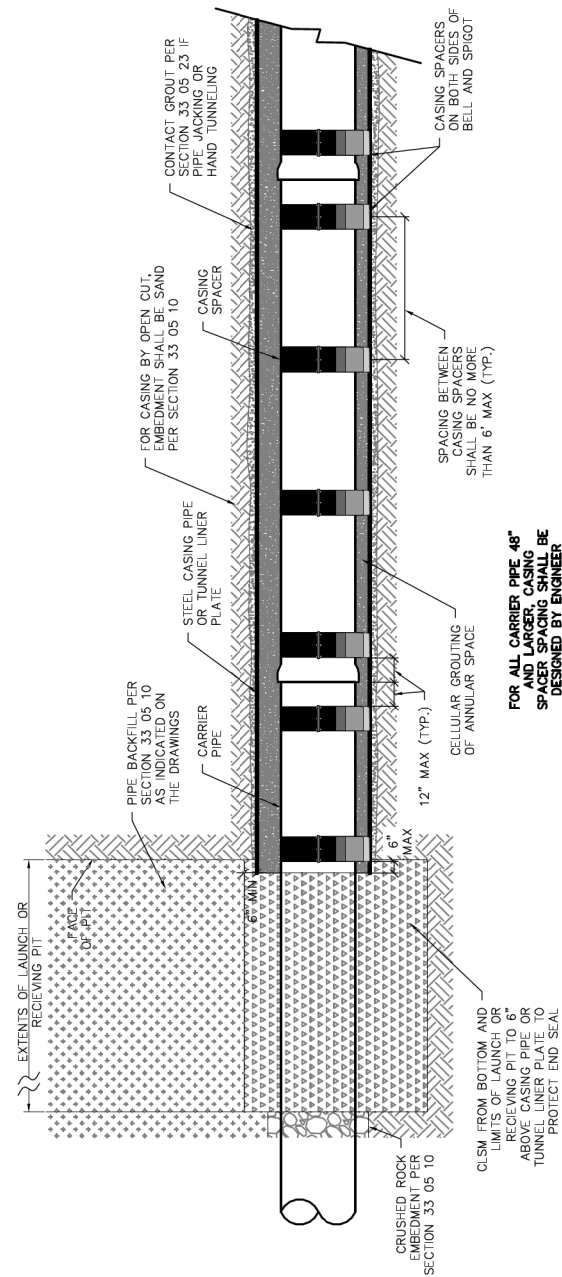
NOTE:
1. SEWER CARRIER PIPE SHALL BE CENTERED IN CASING PIPE OR TUNNEL LINER PLATE, BUT VARIATIONS MAY BE ALLOWED TO DRAWINGS PROPOSED GRADE ON DRAWINGS.
2. CASING AND TUNNEL LINER PLATE DIAMETERS SHOWN ARE TO MEET MINIMUM INSTALLATION REQUIREMENTS. LARGER CASING DIAMETERS SHALL GOVERN. CASING SIZES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



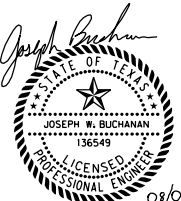
SANITARY SEWER PIPE 36" AND LARGER WITH TUNNEL LINER PLATE



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



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TIRELS Engineering Firm #312

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) 392-8296
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' 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	

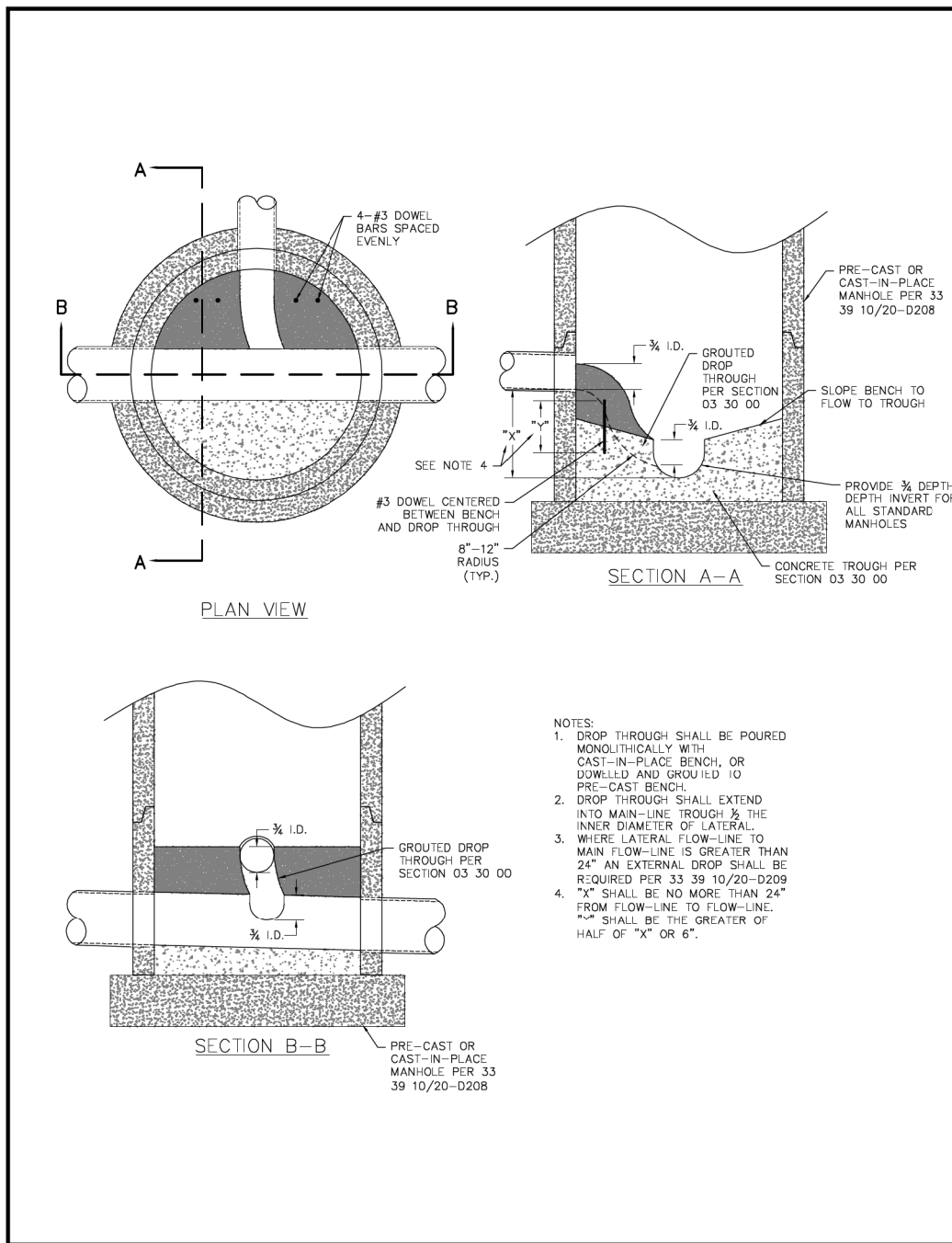
CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

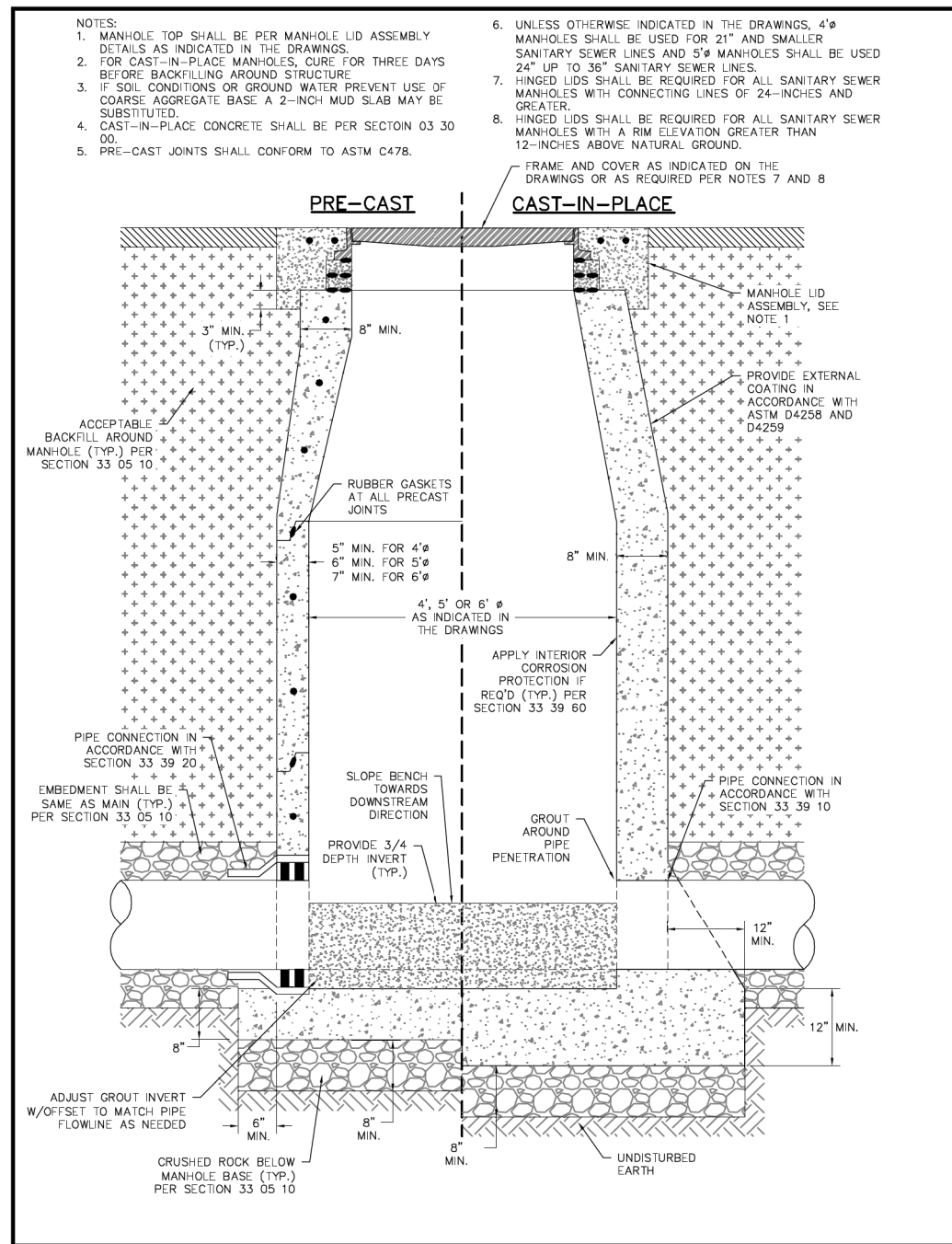
EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
WATER & SANITARY SEWER
DETAILS (SHEET 11 OF 16)

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

8/5/2021 5:14:35 PM I:\2020\08\42487\001\CADD\Drawings\FRC\Public Improvements Sheets\C161-DTW&SS-42487.dgn



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



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

REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBPELS Engineering Firm #312

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) 392-8296
 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

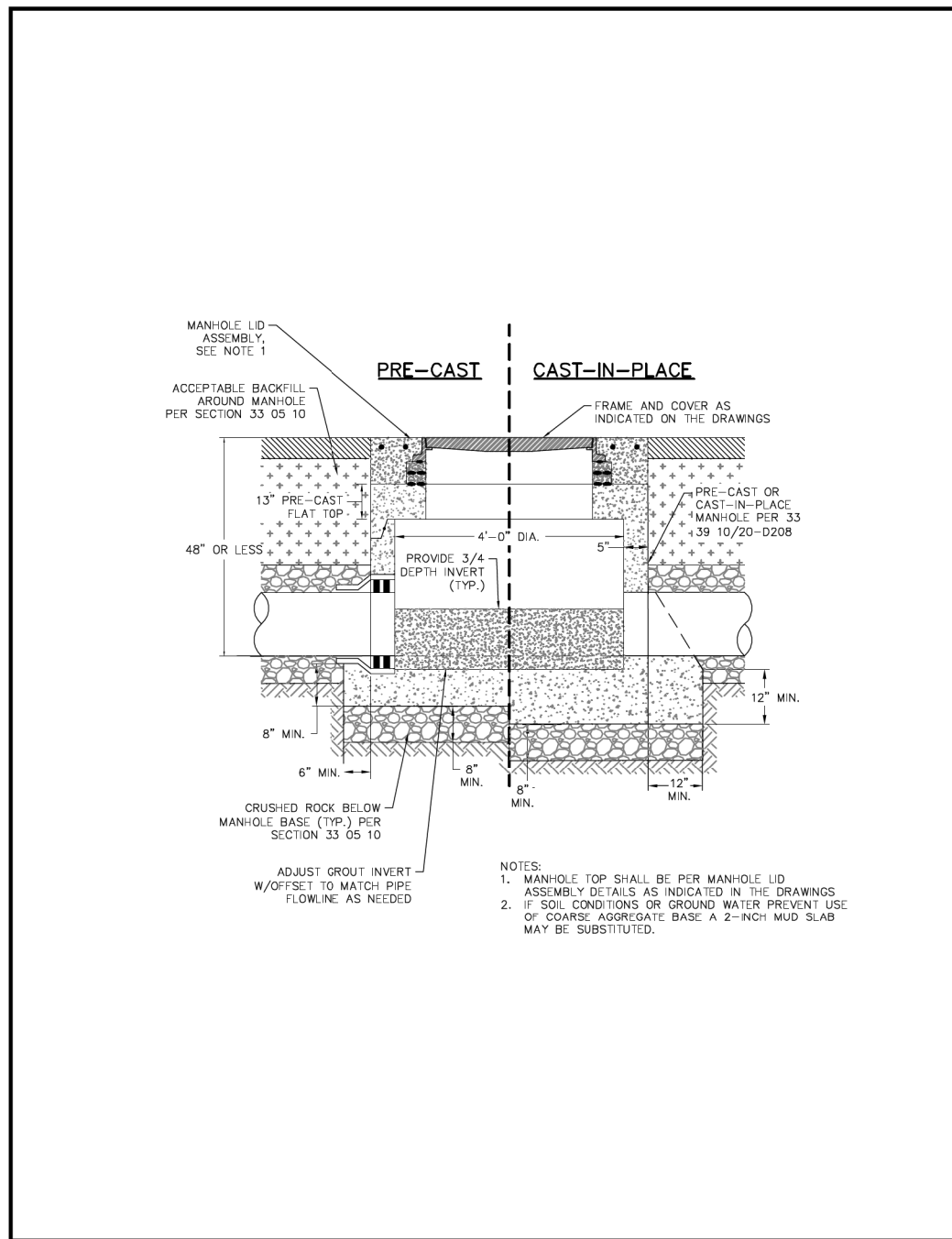
CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97

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

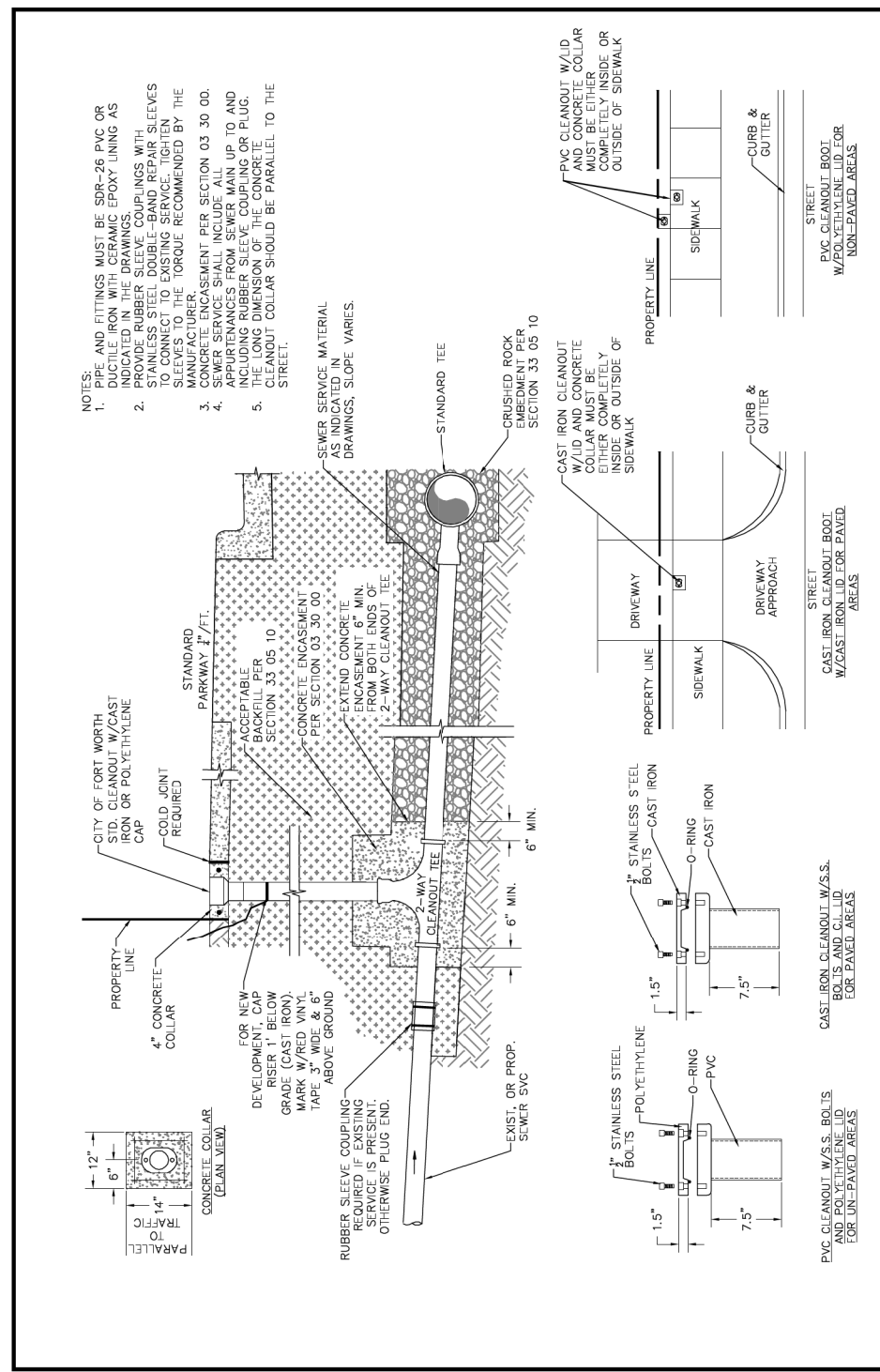
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
 EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
WATER & SANITARY SEWER
 DETAILS (SHEET 12 OF 16)

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 39 OF 189
---------------	---------------	------------------	-----------------

8/5/2021 5:14:41 PM I:\420086\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C162-DTW&SS-42487.dgn

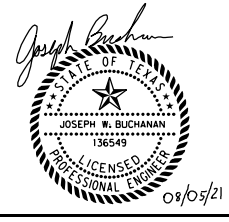


	CITY OF FORT WORTH, TEXAS	REVISED: 08-31-2012
	SHALLOW MANHOLE	33 39 10/20-D210



	CITY OF FORT WORTH, TEXAS	REVISED: 06-19-2013
	SANITARY SEWER SERVICE	33 31 50-D214

REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104, TIRELS Engineering Firm #312

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) 392-8296
 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

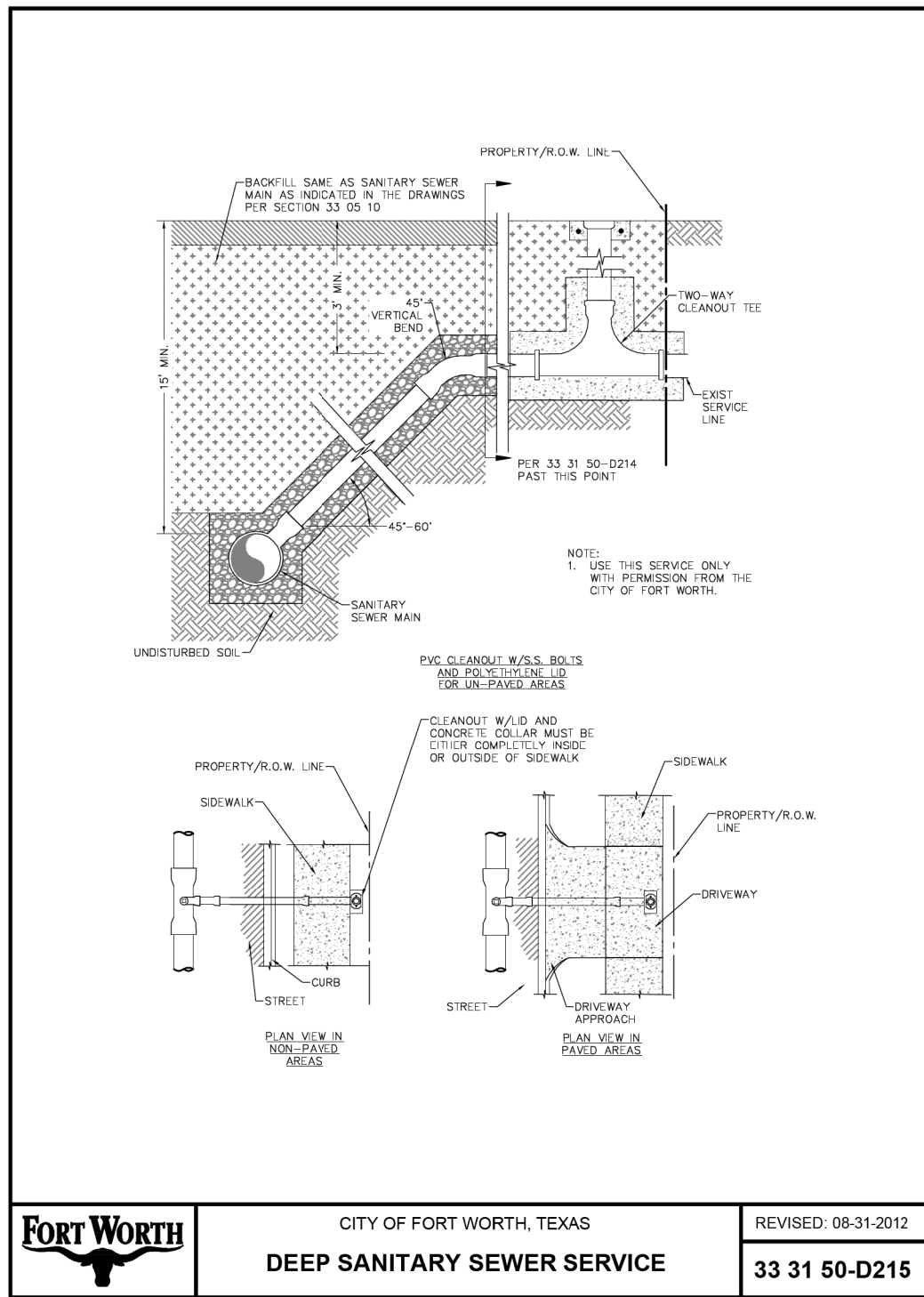
CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97

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

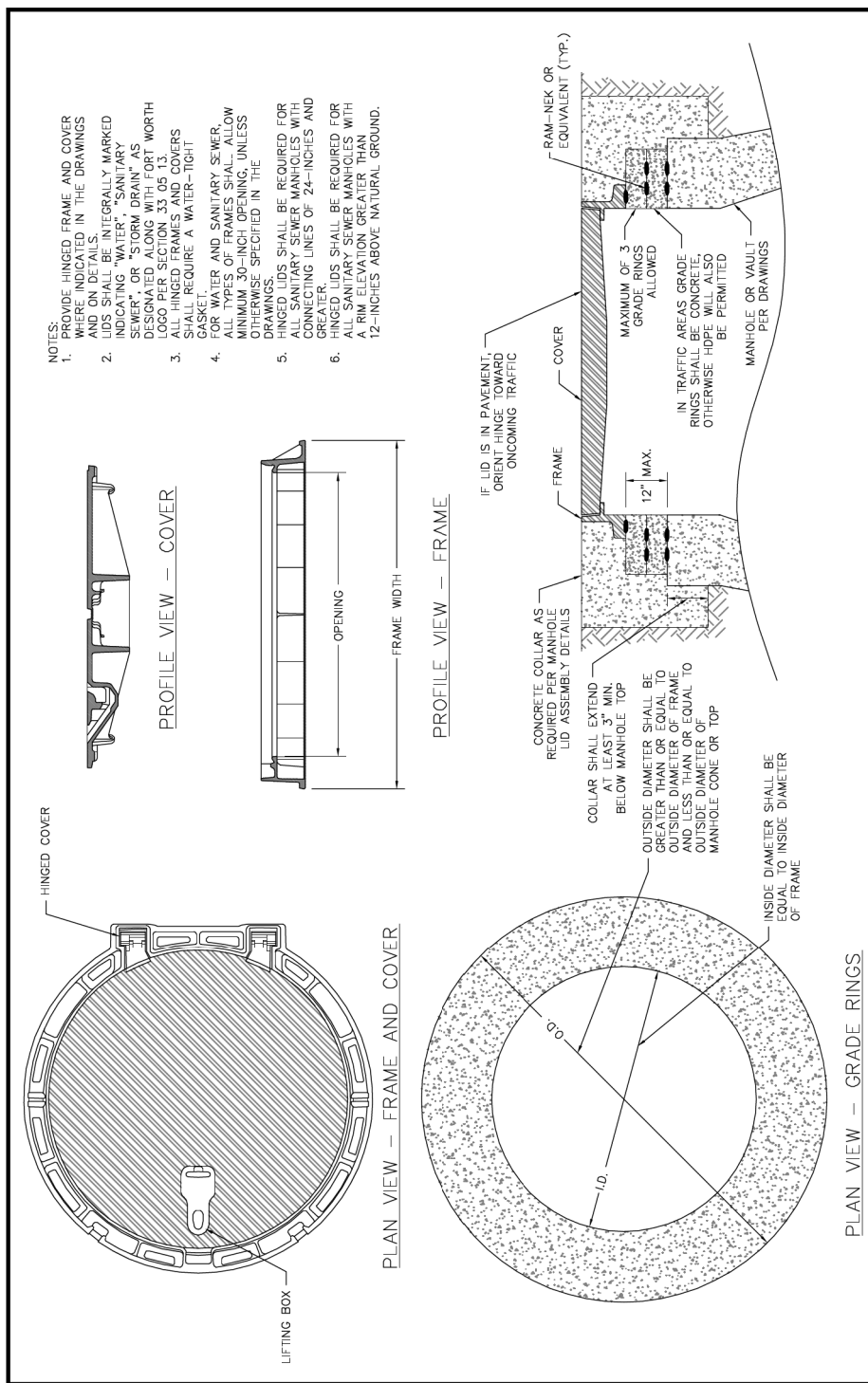
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
 EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
WATER & SANITARY SEWER
 DETAILS (SHEET 13 OF 16)

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 40 OF 189
DRAWN: PTS			

8/5/2021 5:14:47 PM I:\2020\842487\001\CADD\Sheets\FRC\Public Improvements Sheets\C163-DTW&SS-42487.dgn



	CITY OF FORT WORTH, TEXAS DEEP SANITARY SEWER SERVICE	REVISED: 08-31-2012
		33 31 50-D215



REVISED: 06-19-2013 33 05 13-D008	CITY OF FORT WORTH, TEXAS WATER-TIGHT HINGED MANHOLE FRAME, COVER AND GRADE RINGS	
---	---	--

REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		

TBPE FIRM #F-312
 3803 PARKWOOD BLVD., STE 800
 FORT WORTH, TEXAS 76104-8640
 (214) 217-8994

The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Ft. Worth, Texas 76104, TBPELS Engineering Firm #312

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) 392-8296
 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

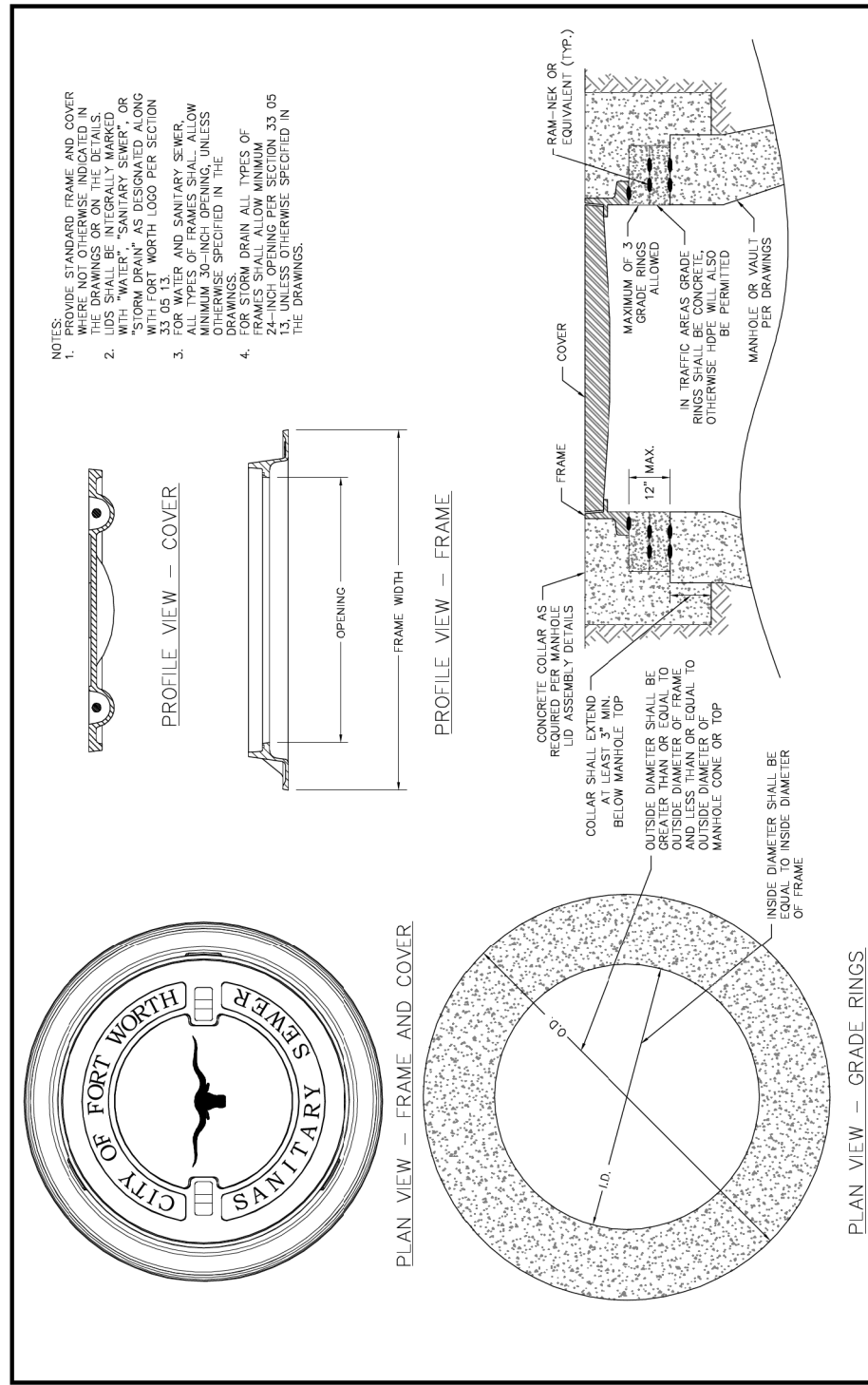
CONTROL POINT #105 SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	CONTROL POINT #109 SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	CONTROL POINT #314 SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97
---	---	---

DOE # K-2840
 CITY PROJECT # 103320 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)

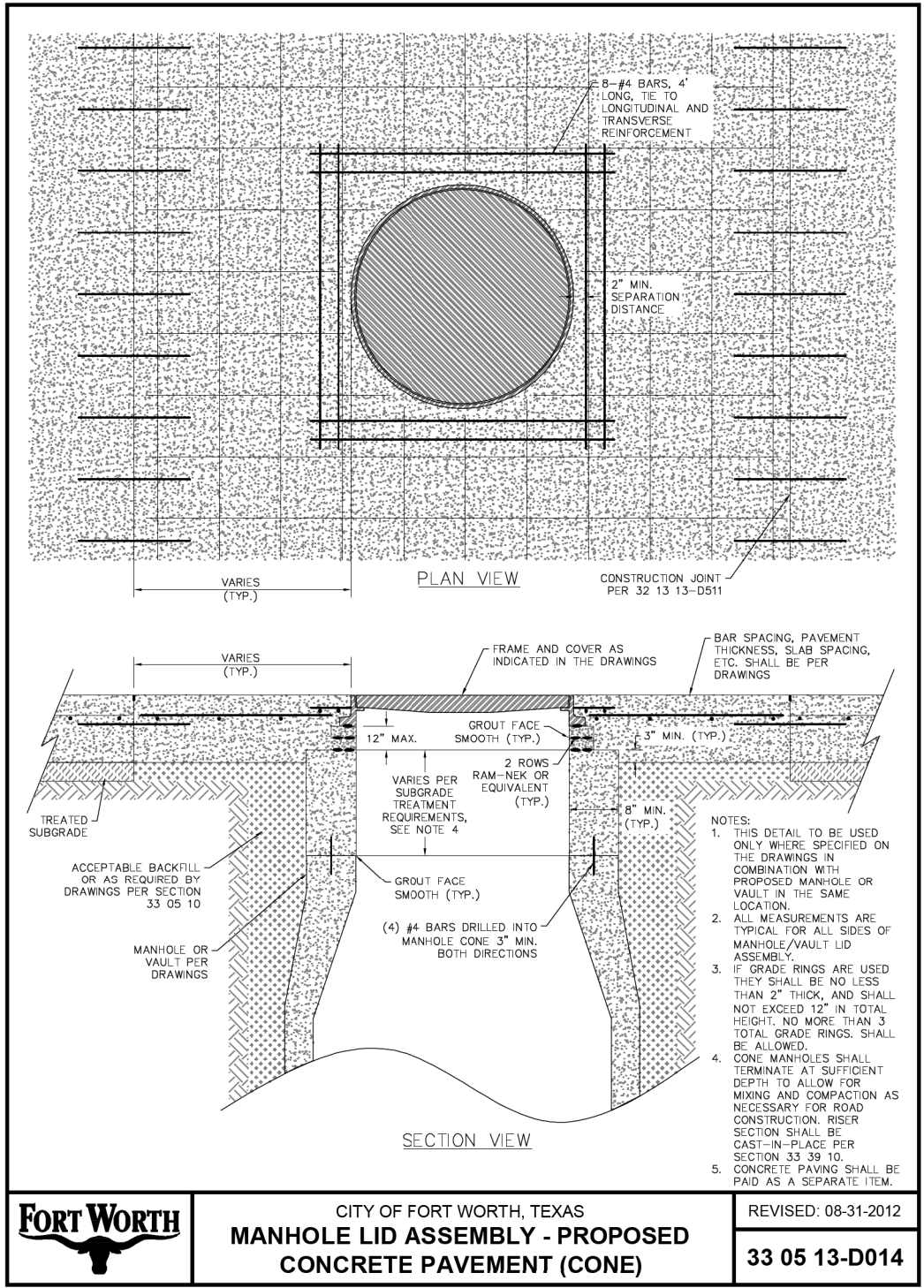
DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 41 OF 189
DRAWN: PTS			

8/5/2021 5:14:47 PM I:\2020\842487\001\CADD\Sheets\FRC\Public Improvements Sheets\C163-DTW&SS-42487.dgn



CITY OF FORT WORTH, TEXAS
MANHOLE FRAME, COVER AND GRADE RINGS
 REVISED: 10-16-2012
33 05 13-D009

FORT WORTH



REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		

HALFF
 TBPE FIRM #F-312
 3803 PARKWOOD BLVD., STE 800
 FORT WORTH, TEXAS 76104-8640
 (214) 217-8994

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

The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104, TBPELS Engineering Firm #312.

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) 392-8296
 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
WATER & SANITARY SEWER DETAILS (SHEET 15 OF 16)

DESIGNED: TMW	SCALE:	DATE:	SHEET
DRAWN: PTS	N.T.S.	06/08/2021	42 OF 189

8/5/2021 5:14:53 PM I:\2020\08\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C164-DTW&SS-42487.dgn

8/5/2021 5:14:59 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C165-DTW&SS-42487.dgn

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBRELS Engineering Firm #312

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) 392-8296
 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

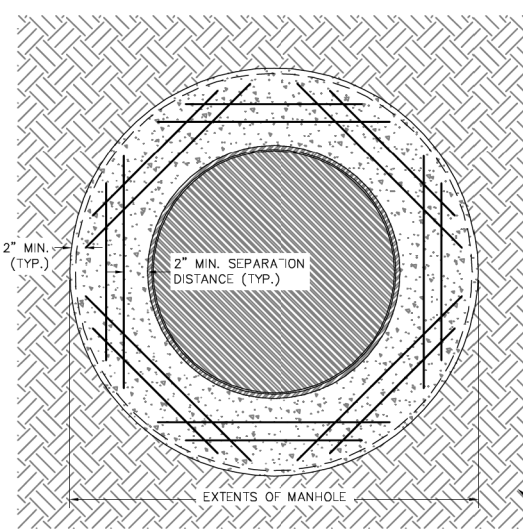
CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97

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

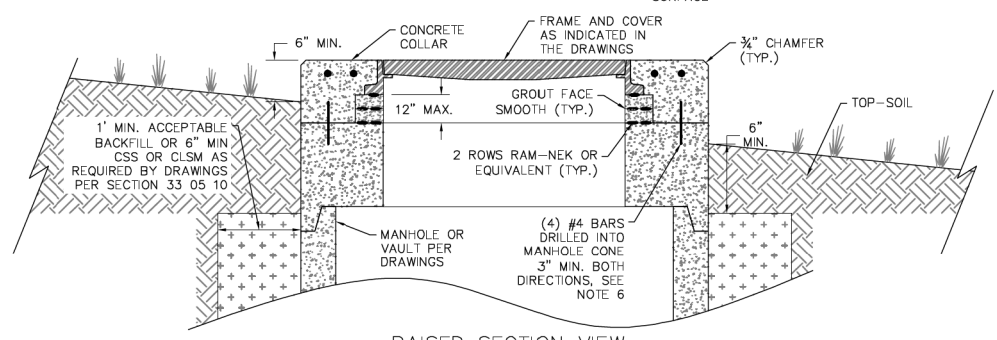
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
WATER & SANITARY SEWER
 DETAILS (SHEET 16 OF 16)

DESIGNED: TMW	SCALE:	DATE:	SHEET
DRAWN: PTS	N.T.S.	06/08/2021	43 OF 189

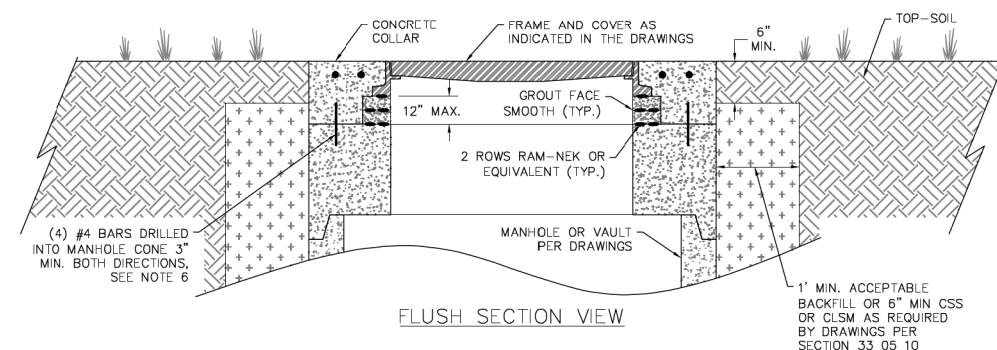


- NOTES:
- THIS DETAIL TO BE USED ONLY WHERE SPECIFIED ON THE DRAWINGS IN COMBINATION WITH PROPOSED MANHOLE OR VAULT IN THE SAME LOCATION.
 - ONLY FLAT TOP MANHOLES SHALL BE ALLOWED FOR UNIMPROVED SURFACES. CONE MANHOLES WILL NOT BE ALLOWED.
 - IF GRADE RINGS ARE USED THEY SHALL BE NO LESS THAN 2" THICK, 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.

PLAN VIEW



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
--	--	---

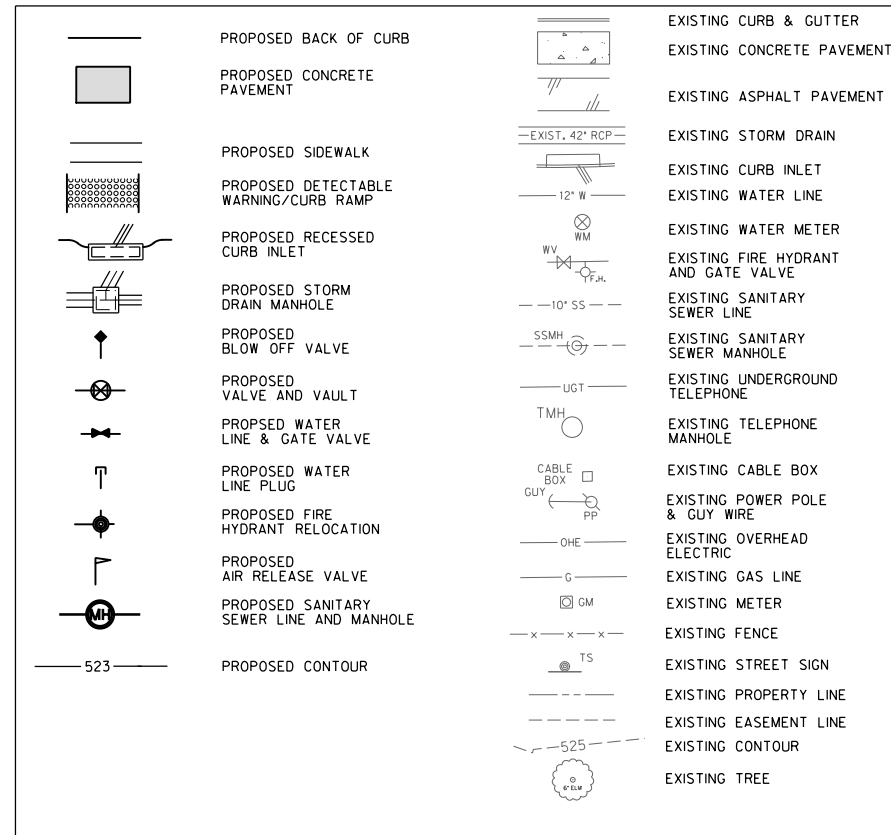
GENERAL NOTES

- 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 THERE TO 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

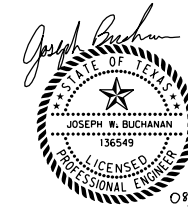
- FOR UTILITY WORK WITHIN UTILITY EASEMENTS, ONCE PIPE OR APPURTENANCES HAVE BEEN INSTALLED OR REHABILITATED, IMMEDIATELY COMMENCE TEMPORARY SURFACE RESTORATION. COMPLETE SURFACE RESTORATION TO THE OWNER'S SATISFACTION WITHIN SEVEN (7) DAYS OF WORK FINISHING ON-SITE. FAILURE TO MAINTAIN SURFACE RESTORATION, 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 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
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104, TIRELS Engineering Firm #312

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) 392-8296
 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
 GENERAL NOTES**

GENERAL CONSTRUCTION

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

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
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBEELS Engineering Firm #312

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) 392-8296
 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

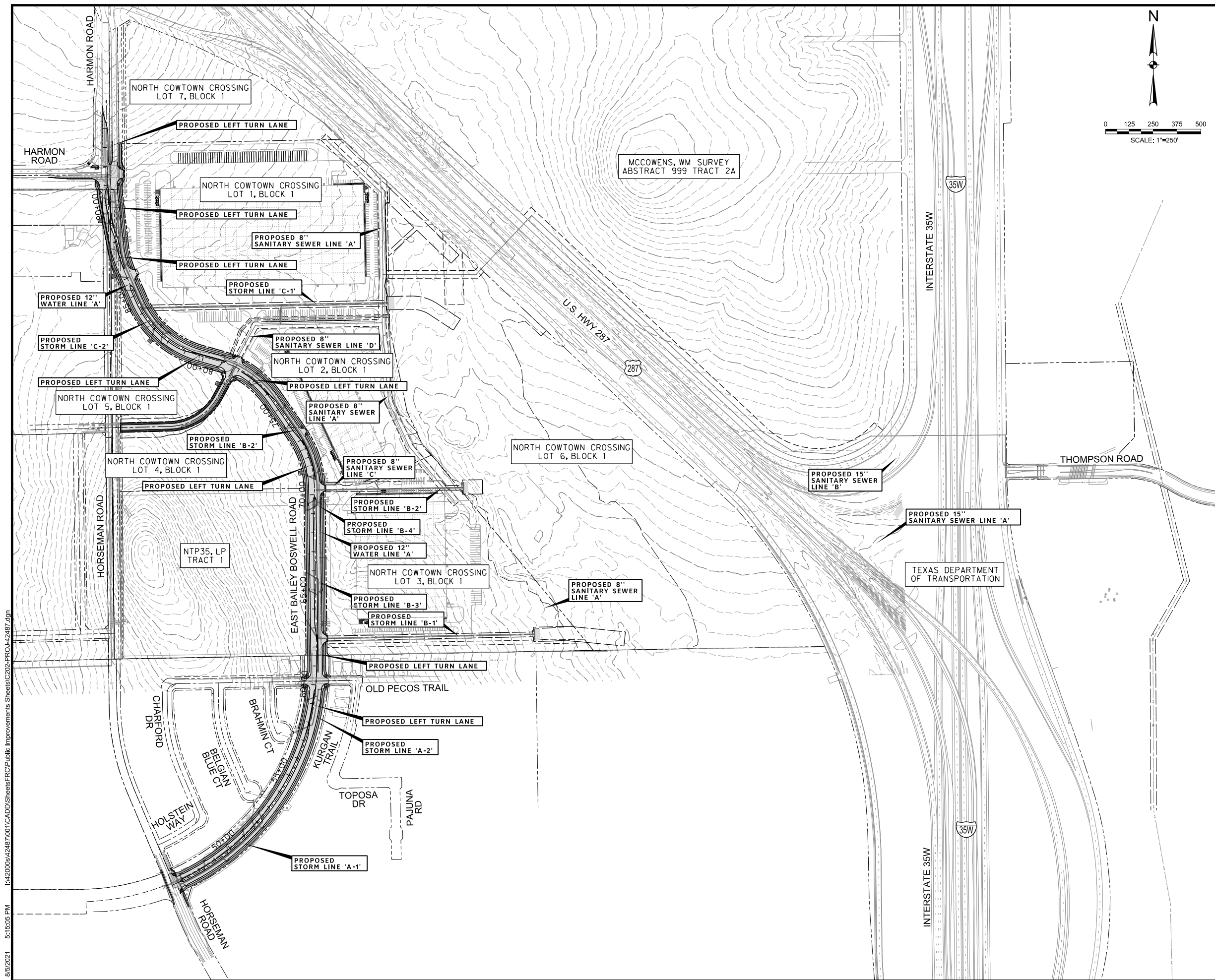
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO.
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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
1		
2		
3		

TBPE FIRM #312
 3803 PARKWOOD BLVD., STE 800
 FRISCO, TEXAS 75034-8640
 (214) 217-8994

LEGEND

The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBPEIS Engineering Firm #312

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) 392-8296
 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
PROJECT LAYOUT

PAVING & GRADING

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

8/5/2021 5:15:05 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C202-PROJ-42487.dgn

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' 04.50" (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. = N 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. = N 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. = N 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. = N 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. = N 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. = N 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. = N 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

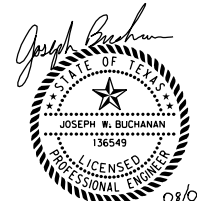
Course from PT CL-CREST-1 to 136 N 28° 41' 32.41" E Dist 180.6886

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		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034. TBRELS Engineering Firm #312

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) 392-8296
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' 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

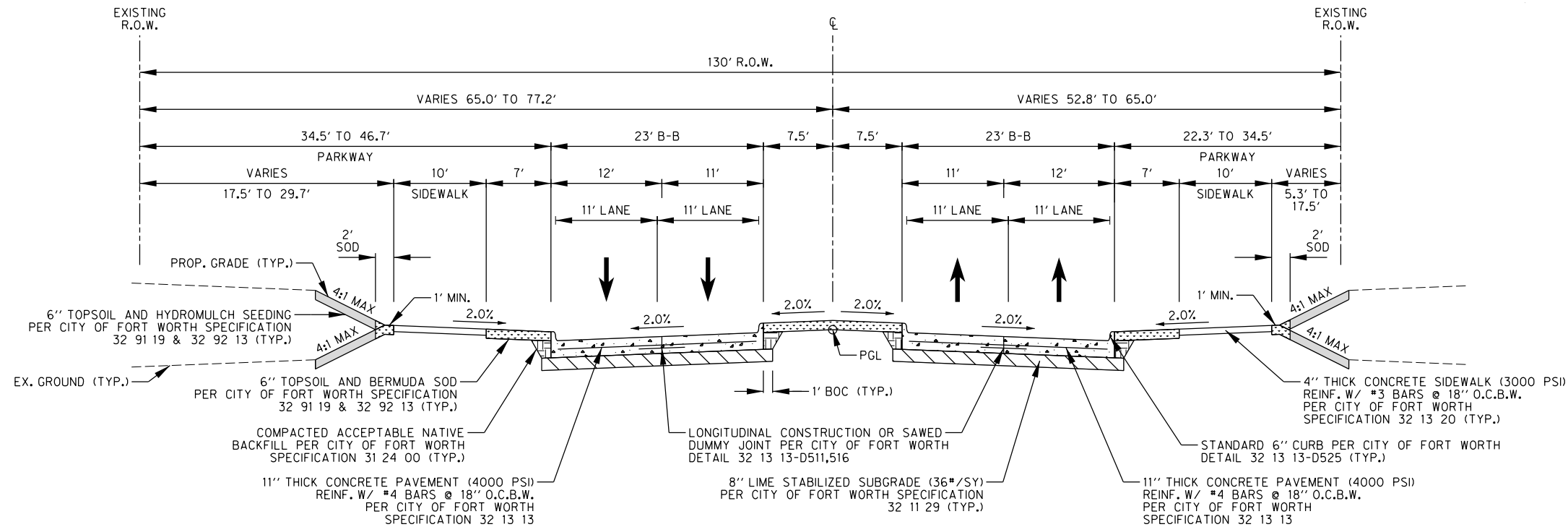
CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

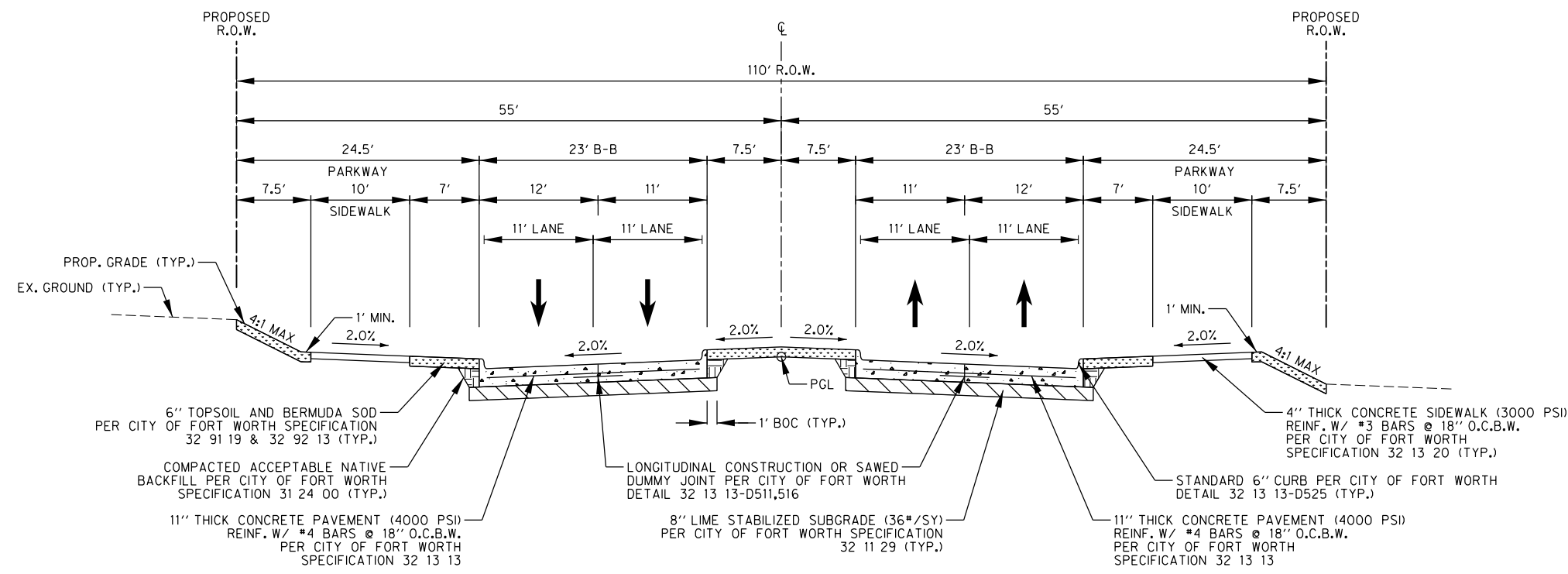
EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
HORIZONTAL ALIGNMENT

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

8/5/2021 5:15:08 PM I:\42008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C210-TSEC-42487.dgn



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
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBEELS Engineering Firm #312

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) 392-8296
 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

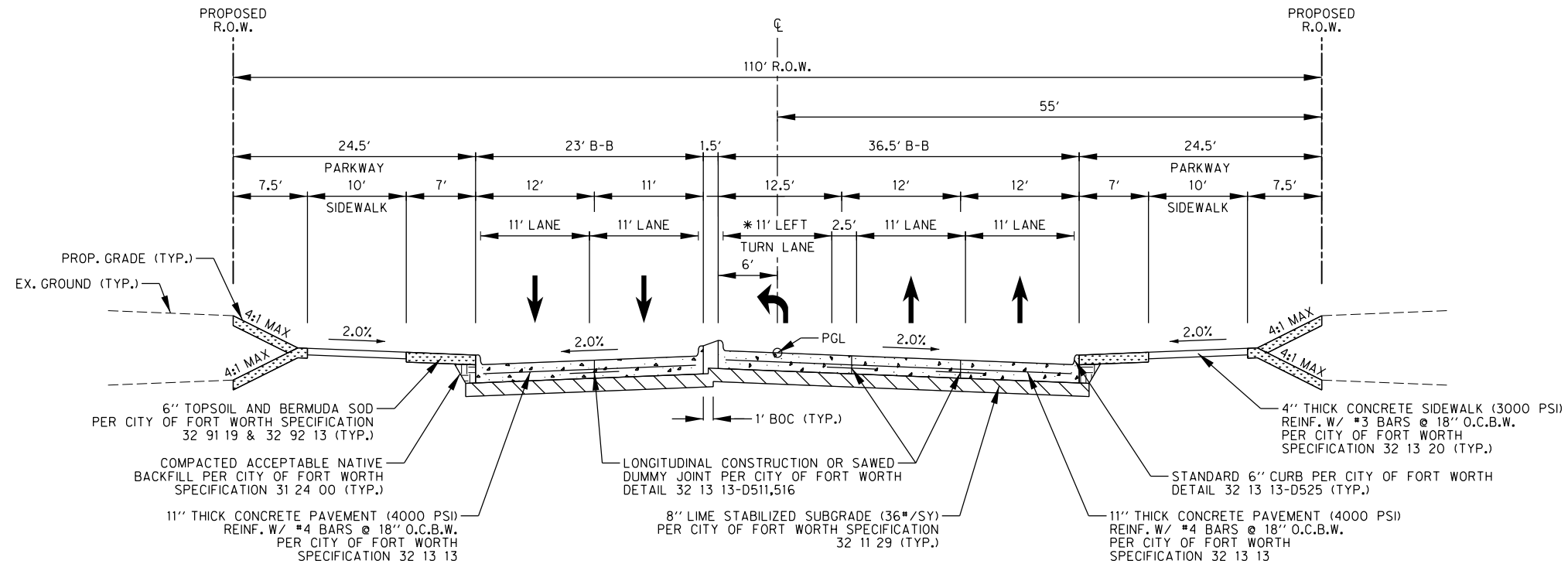
**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT
 SERVICES**

**TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

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

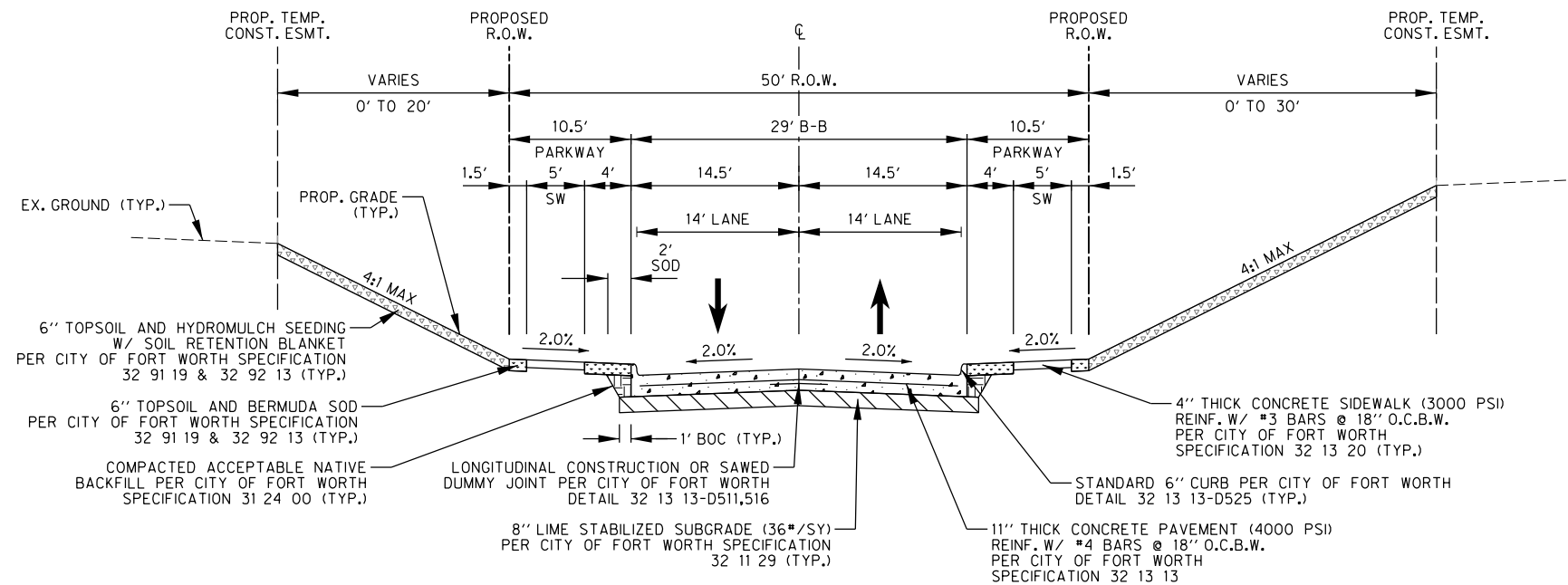
DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 48 OF 189
DRAWN: PTS			

8/5/2021 5:15:08 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C211-TSEC-42487.dgn



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

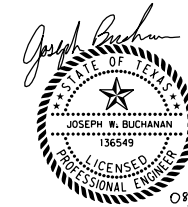
* LEFT TURN LANE IS NOT CONTINUOUS AND ALSO OCCURS ON SB SIDE



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

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TIRELS Engineering Firm #312

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) 392-8296
 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

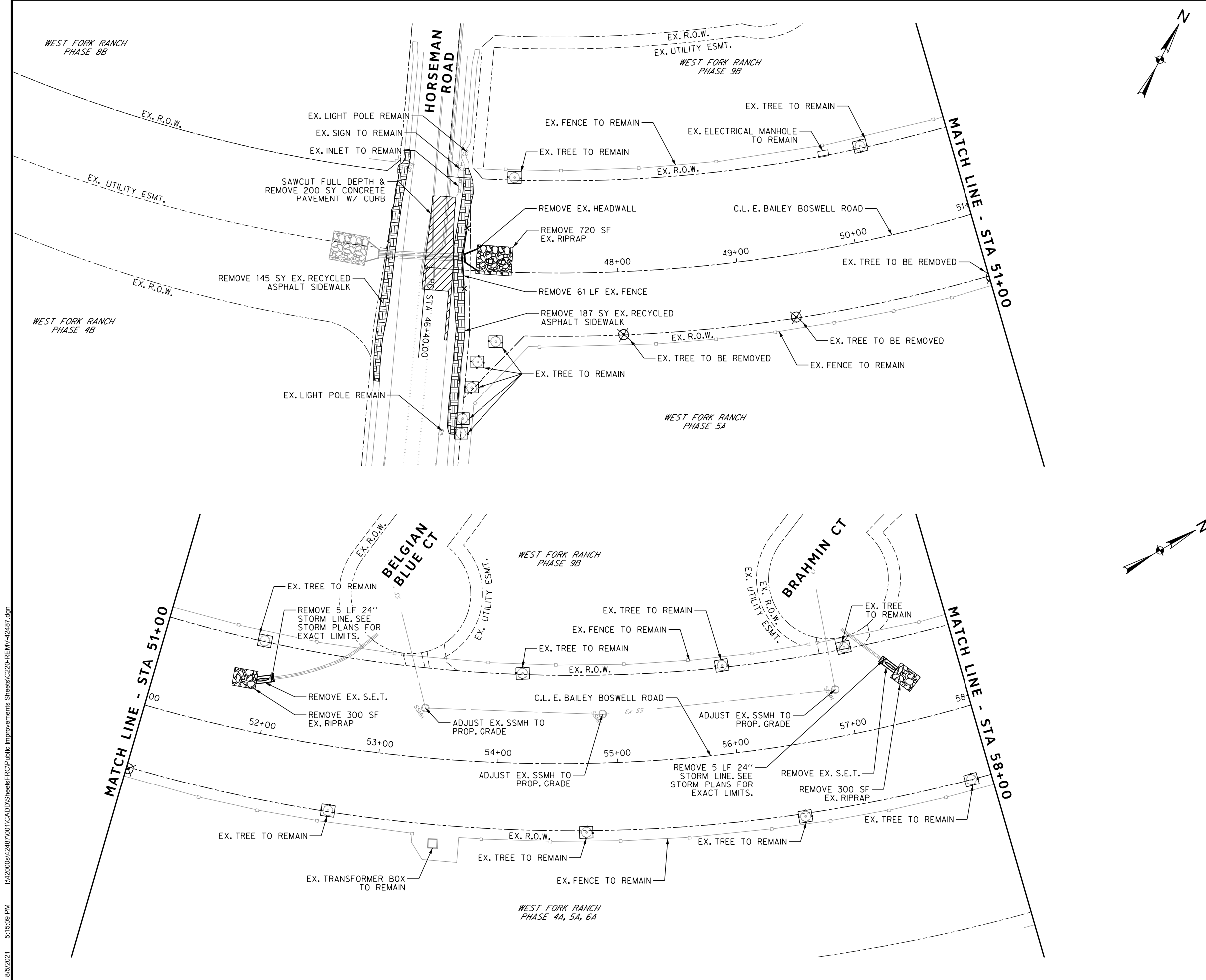
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO.
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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 49 OF 189
DRAWN: PTS			

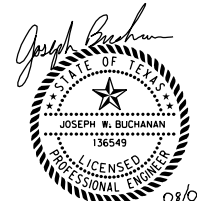


REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



- 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.



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104, TBEELS Engineering Firm #312

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) 392-8296
 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
 REMOVAL PLAN
 BEGIN TO STA 58+00**

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

8/5/2021 5:15:09 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C220-REM\42487.dgn

8/5/2021 5:15:10 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C221-REM\42487.dgn

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		

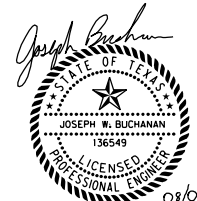


3803 PARKWOOD BLVD., STE 800
FRIISCO, TEXAS 75034-8640
(214) 217-6994
SCALE: 1"=40'

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
- 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.



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034. TBPELS Engineering Firm #312

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) 392-8296
 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

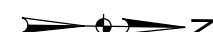
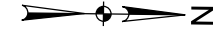
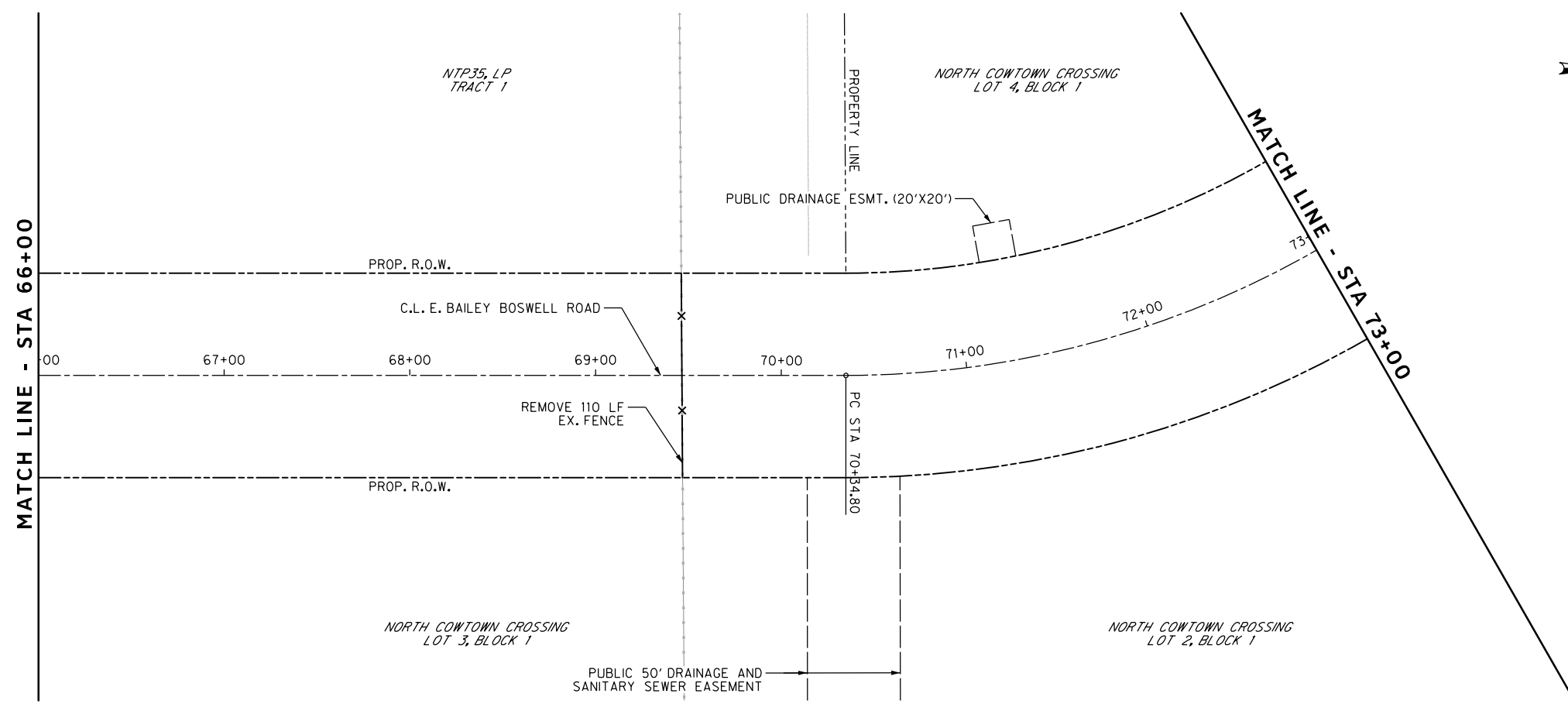
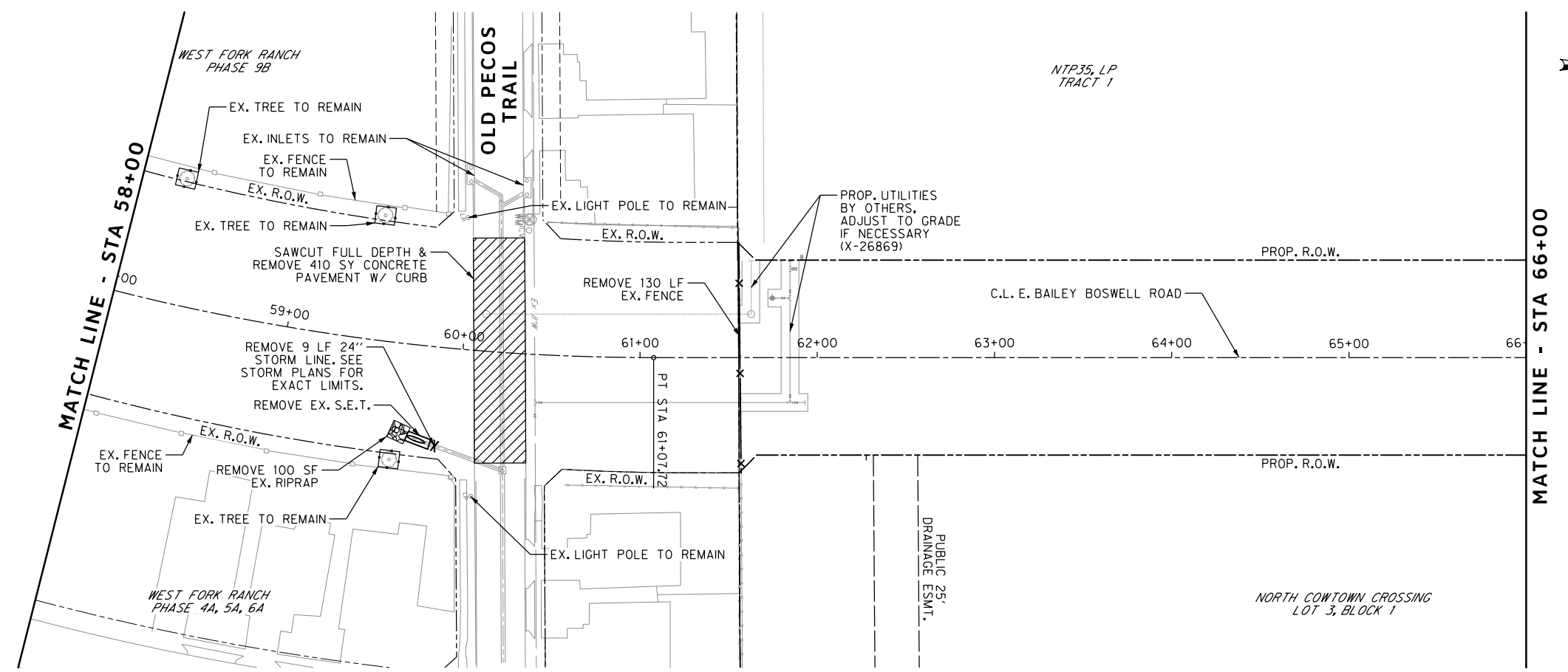
CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

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

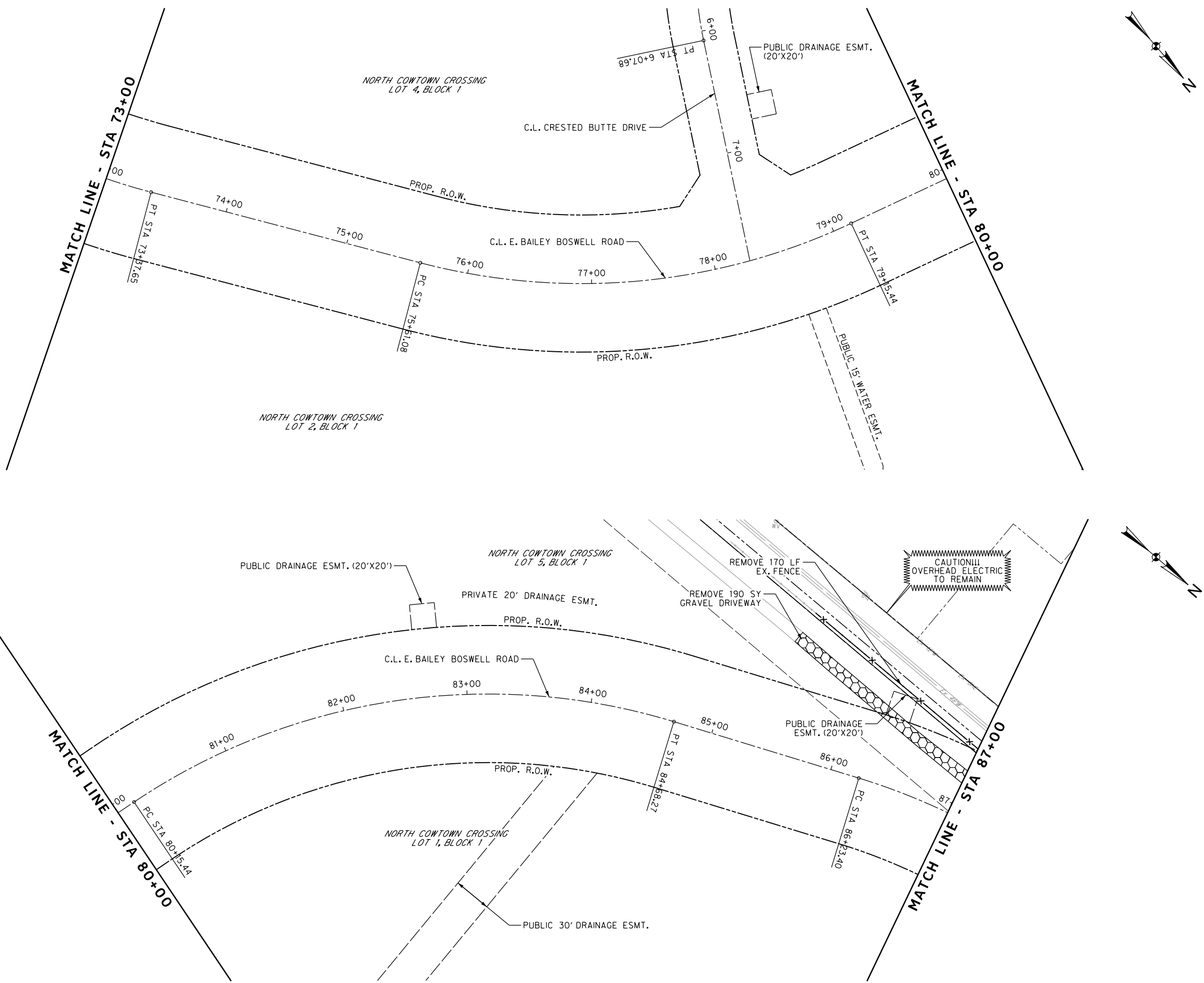
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

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

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



8/5/2021 5:15:11 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C222-REM\42487.dgn



REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		

HALFF
 TYPE FIRM #F-312
 3803 PARKWOOD BLVD., STE 800
 FRISCO, TEXAS 75034-8640
 (214) 217-8994
 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
 - 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.



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TYPELS Engineering Firm #312

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) 392-8296
 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

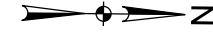
CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

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

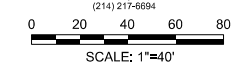
**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 REMOVAL PLAN
 STA 73+00 TO STA 87+00**

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 52 OF 189
DRAWN: PTS			



REVISIONS

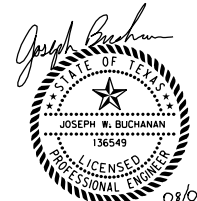
NO.	DESCRIPTION	DATE
1		
2		
3		



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.



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBELES Engineering Firm #312

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) 392-8296
 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

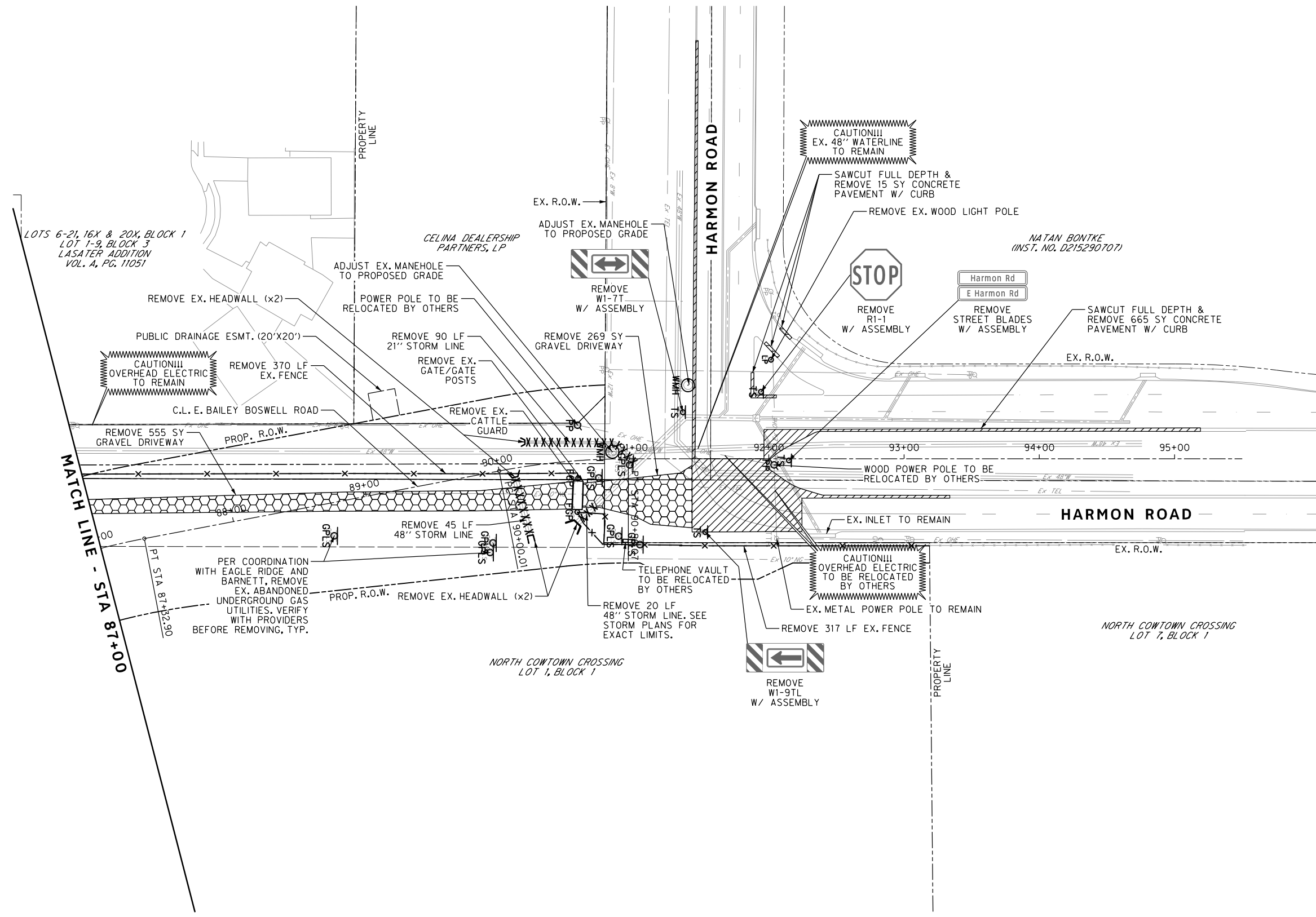
CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

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
REMOVAL PLAN
 STA 87+00 TO END

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



MATCH LINE - STA 87+00

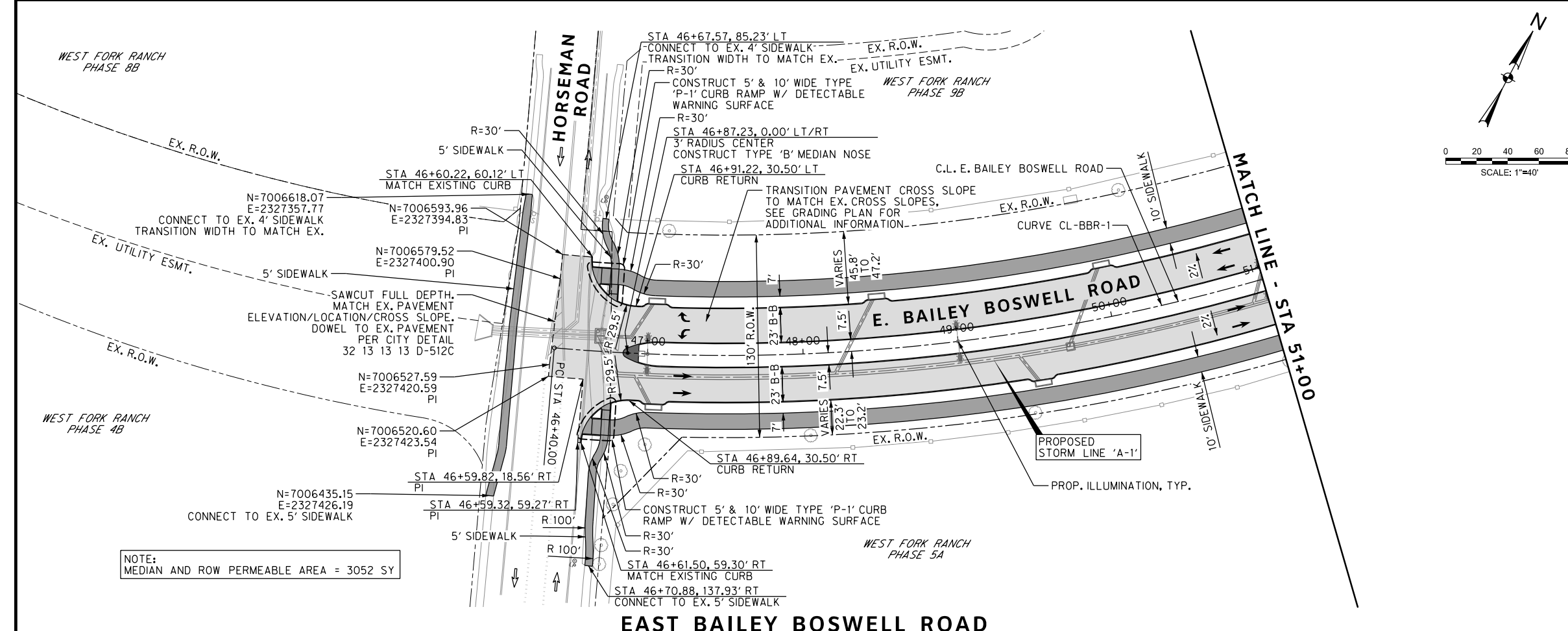
LOTS 6-21, 16X & 20X, BLOCK 1
LOT 1-9, BLOCK 3
LASATER ADDITION
VOL. 4, PG. 11051

CELINA DEALERSHIP PARTNERS, LP

NATAN BONTKE
(INST. NO. D215290707)

NORTH COWTOWN CROSSING
LOT 1, BLOCK 1

NORTH COWTOWN CROSSING
LOT 7, BLOCK 1



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.

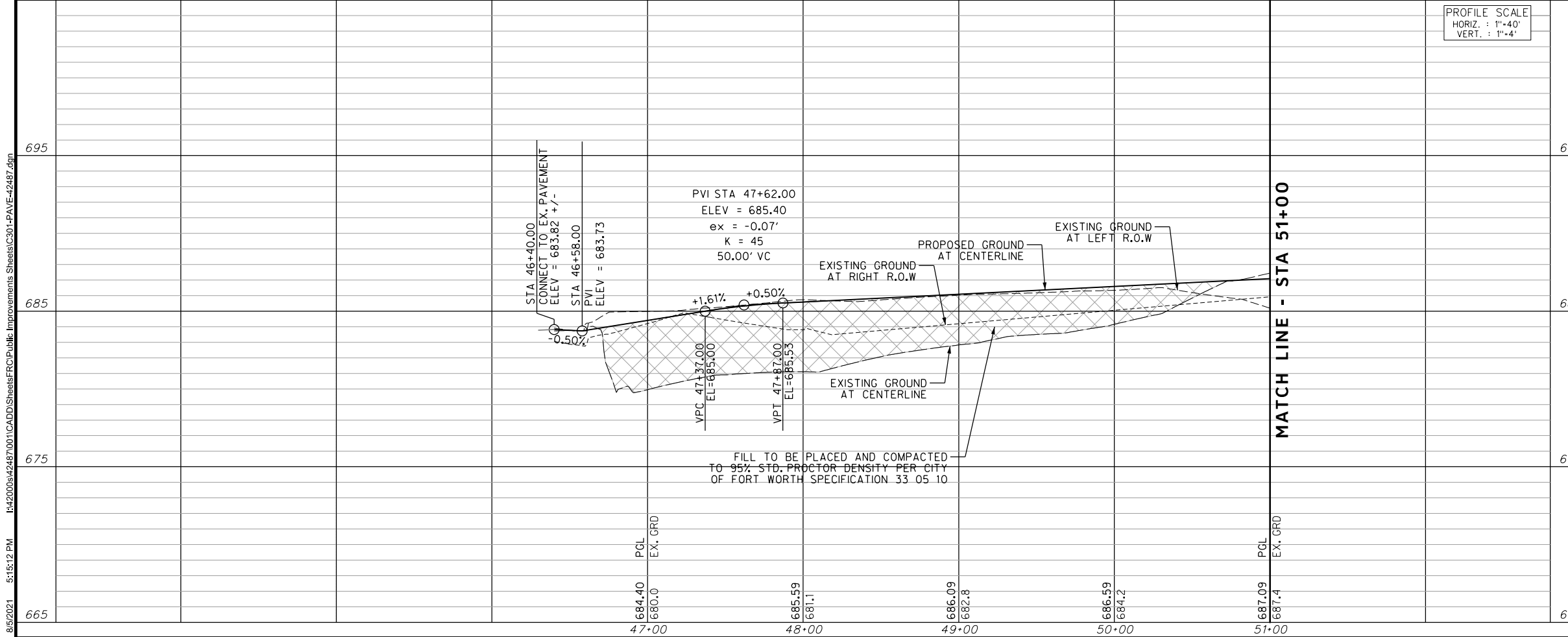


The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104, TBPEIS Engineering Firm #312

NOTE:
MEDIAN AND ROW PERMEABLE AREA = 3052 SY

EAST BAILEY BOSWELL ROAD

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



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) 392-8296
 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

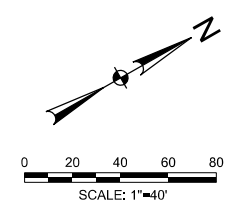
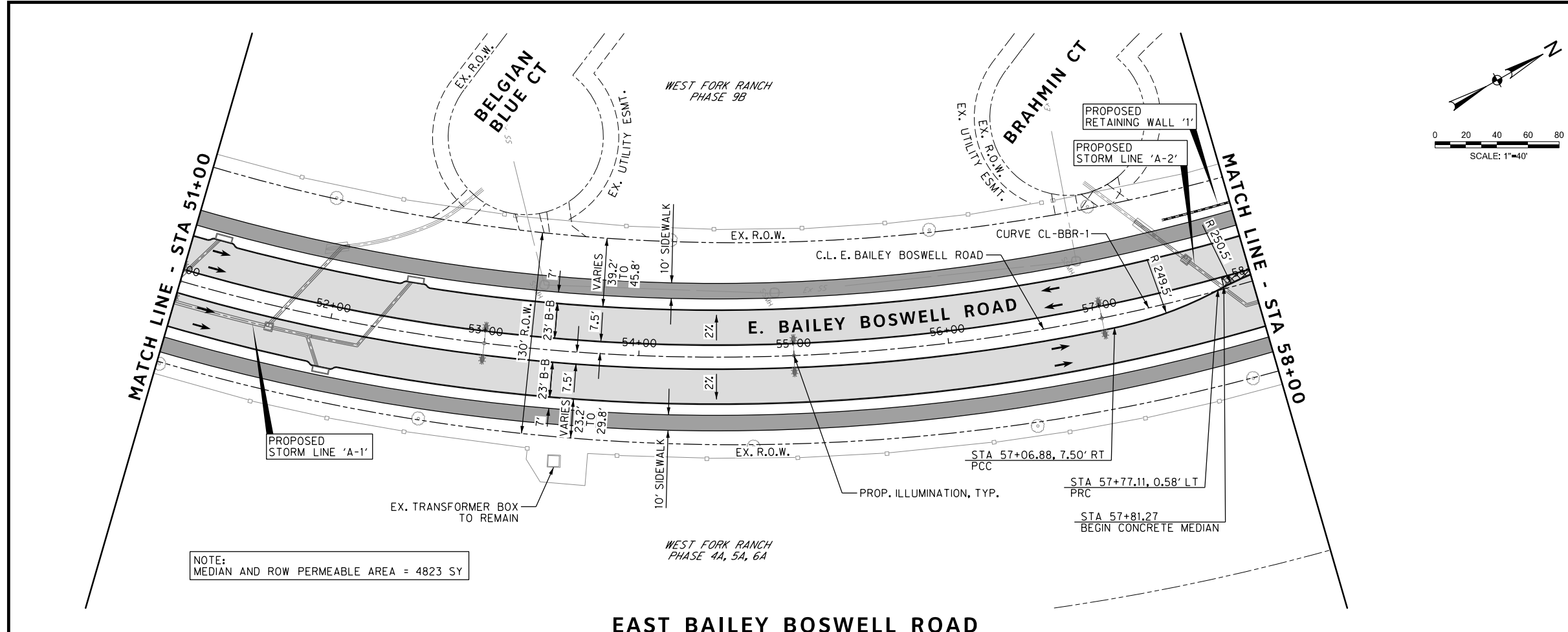
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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
PAVING
 BEGIN TO STA 51+00

PLAN & PROFILE

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

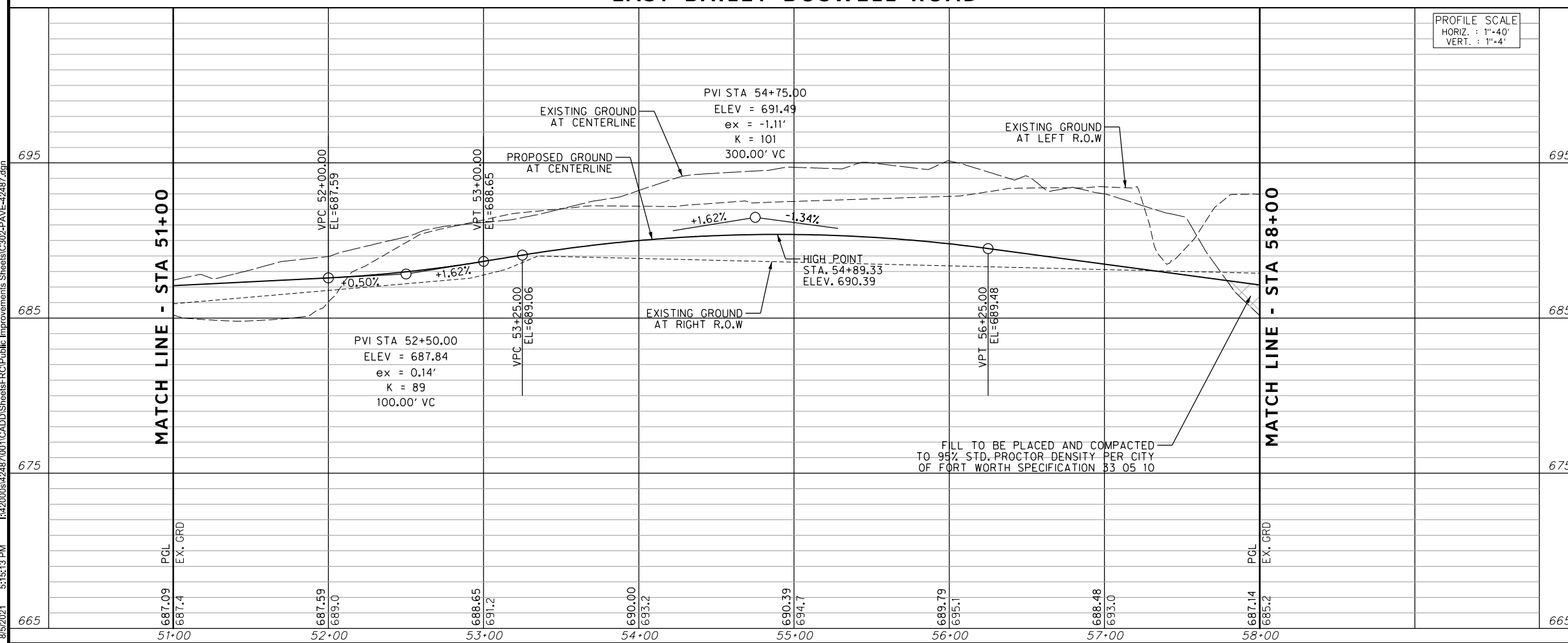
- NOTES:**
- CONTRACTOR TO INSTALL EXPANSION JOINTS AT ALL PC AND PT LOCATIONS.
 - SEE GRADING PLAN FOR ROADWAY CROSS SLOPES AT INTERSECTIONS.



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TIRELS Engineering Firm #312

NOTE: MEDIAN AND ROW PERMEABLE AREA = 4823 SY

EAST BAILEY BOSWELL ROAD



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

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 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
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			

8/5/2021 5:15:13 PM I:\2020\08\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C302-PAVE-42487.dgn

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.



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Ft. Worth, Texas 76104, TIRELS Engineering Firm #312

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) 392-8296
 - 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

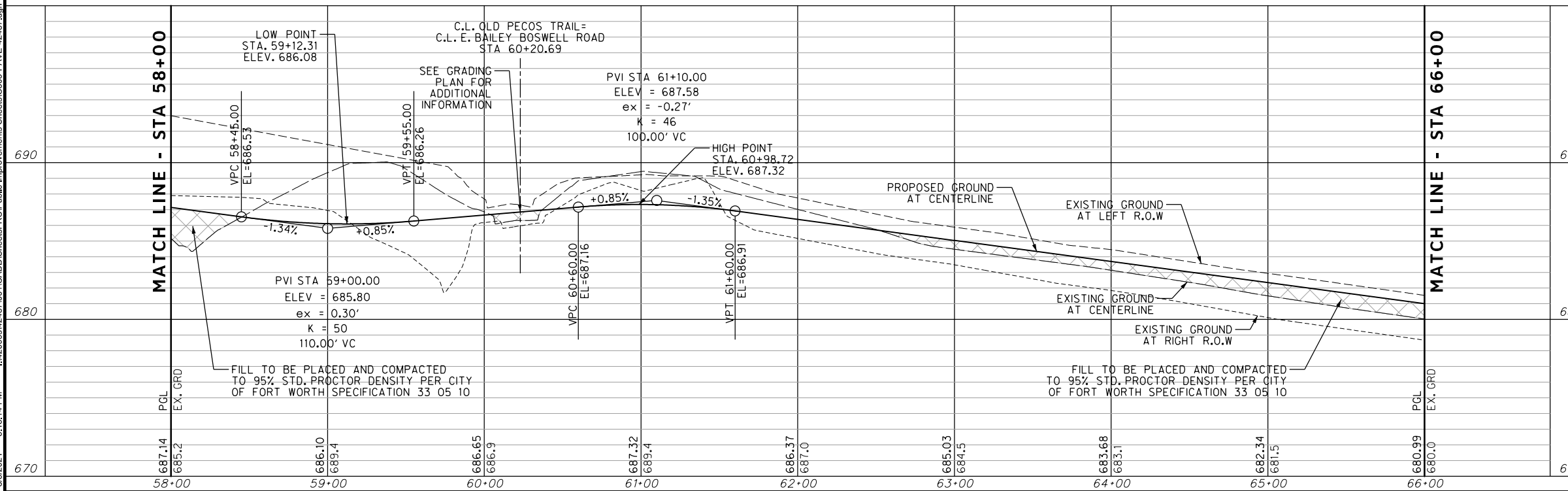
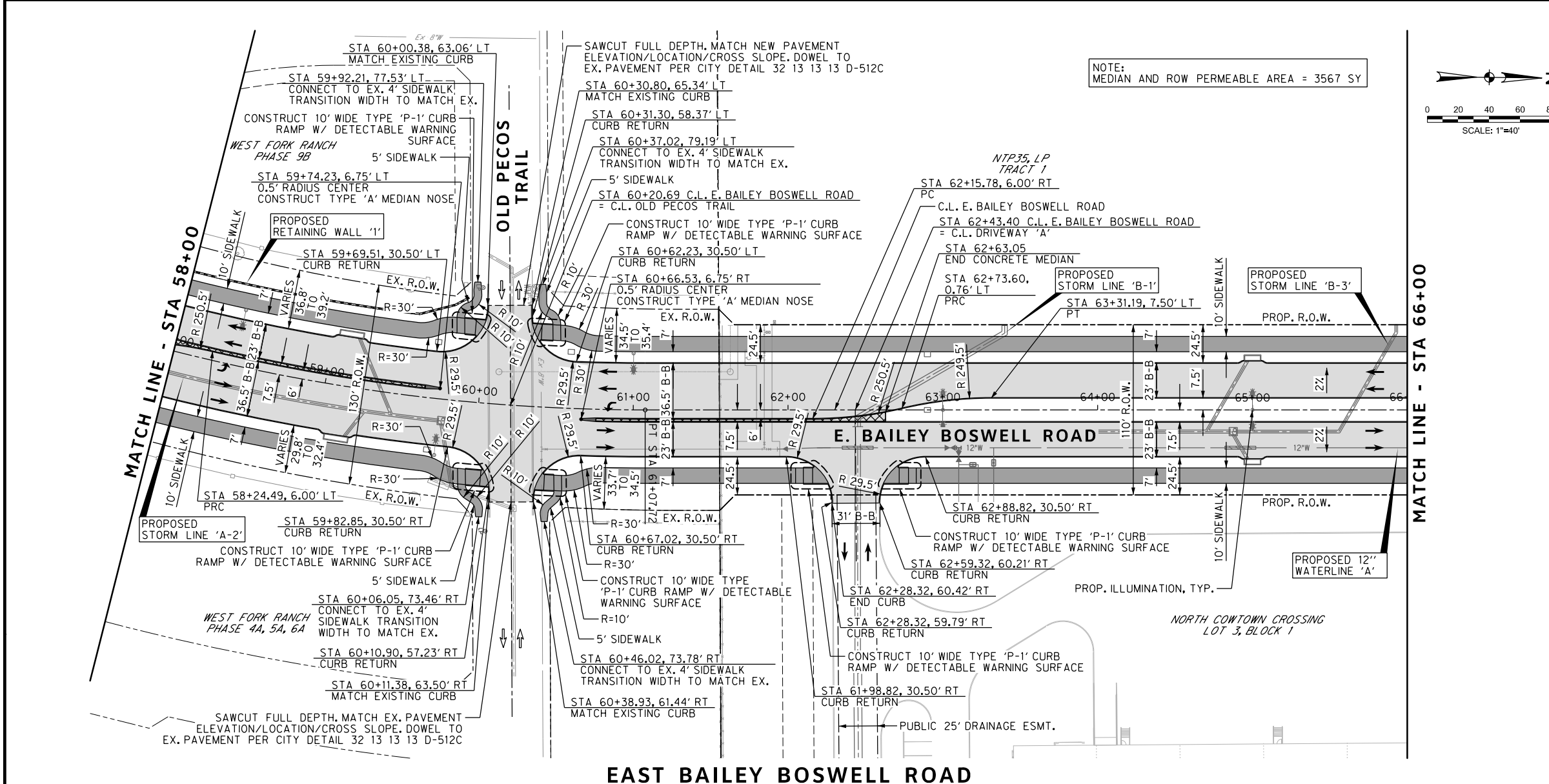
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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

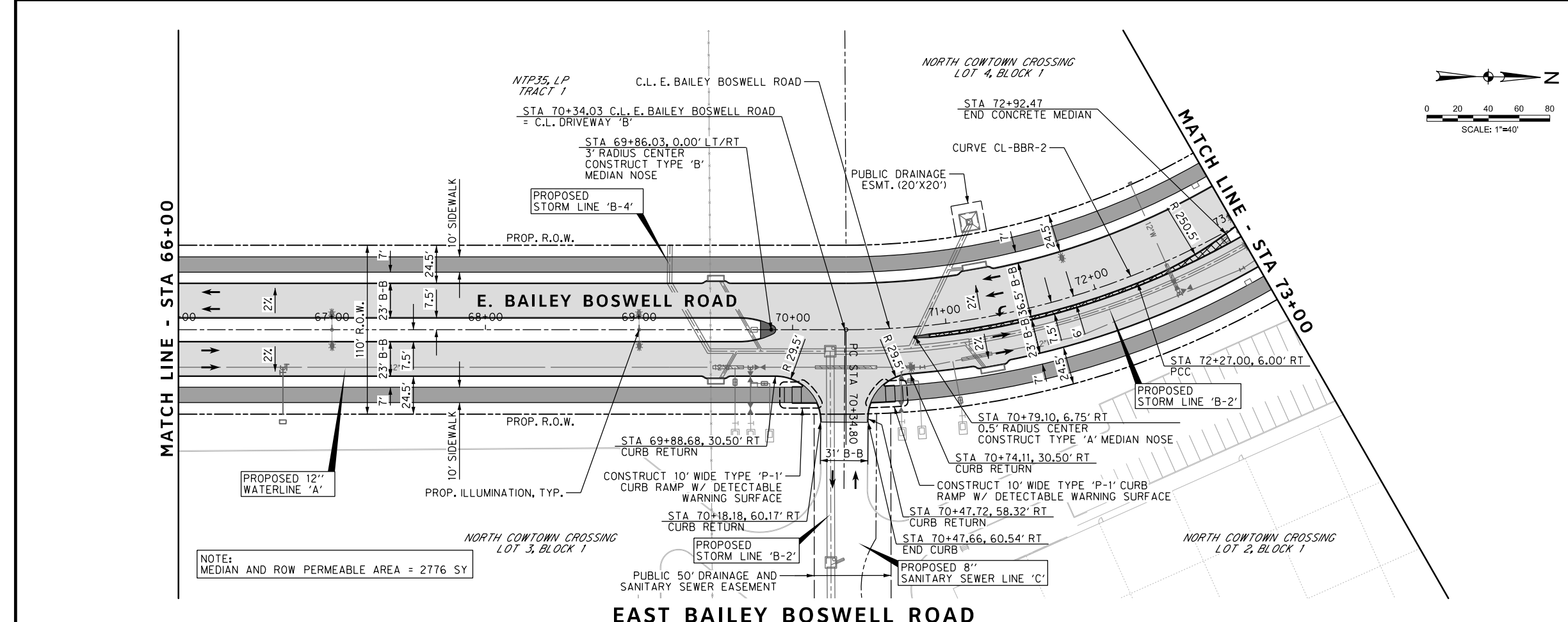
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
PAVING
 STA 58+00 TO STA 66+00

PLAN & PROFILE

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



8/5/2021 5:15:14 PM I:\2020\842487\001\CADD\Sheets\FRC\Public Improvements\Sheets\C303-PAVE-42487.dgn



REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



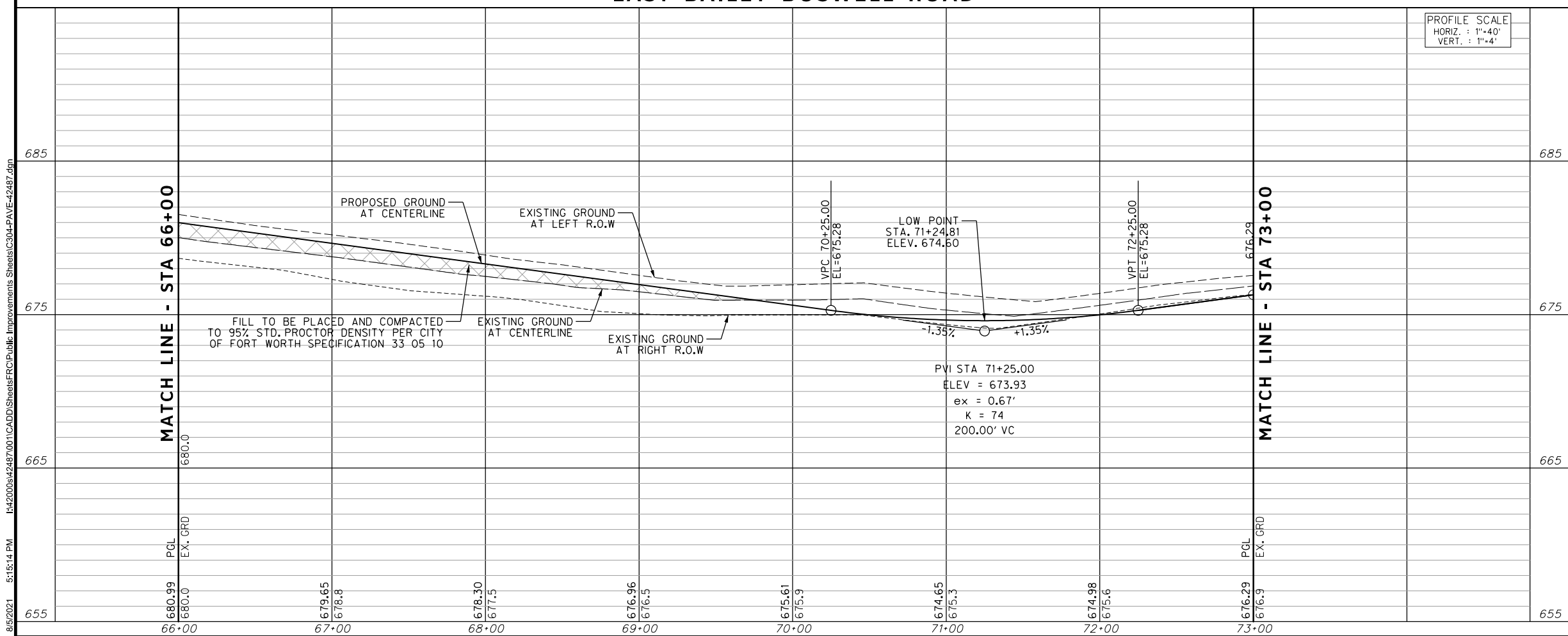
- PAVING LEGEND**
- PROPOSED 11" THICK CONCRETE PAVEMENT (4000 PSI) REINF. W/ #4 BARS @ 18" O.C.B.W. OVER 8" LIME STABILIZED SUBGRADE (6%)
 - PROPOSED 4" THICK CONCRETE SIDEWALK (3000 PSI) REINF. W/ #3 BARS @ 18" O.C.B.W.
 - PROPOSED MONOLITHIC MEDIAN NOSE
 - PROPOSED CONCRETE MEDIAN
 - PROPOSED TRAFFIC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

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



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TBPELS Engineering Firm #312

EAST BAILEY BOSWELL ROAD



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

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) 392-8296
 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
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			

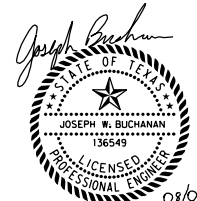
8/5/2021 5:15:14 PM I:\2020\08\24\487\001\CADD\Sheets\FRC\Public Improvements Sheets\C304-PAVE-42487.dgn

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



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TBPELS Engineering Firm #312

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) 392-8296
 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

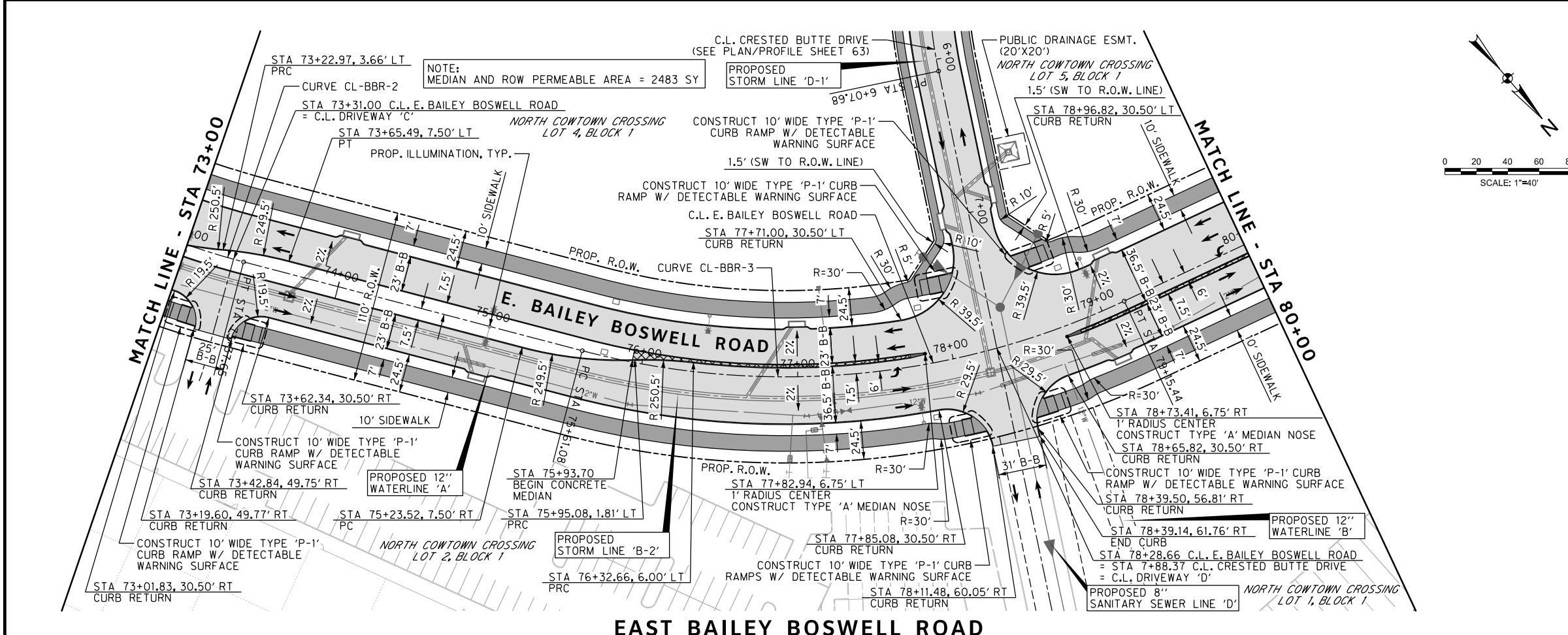
CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

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

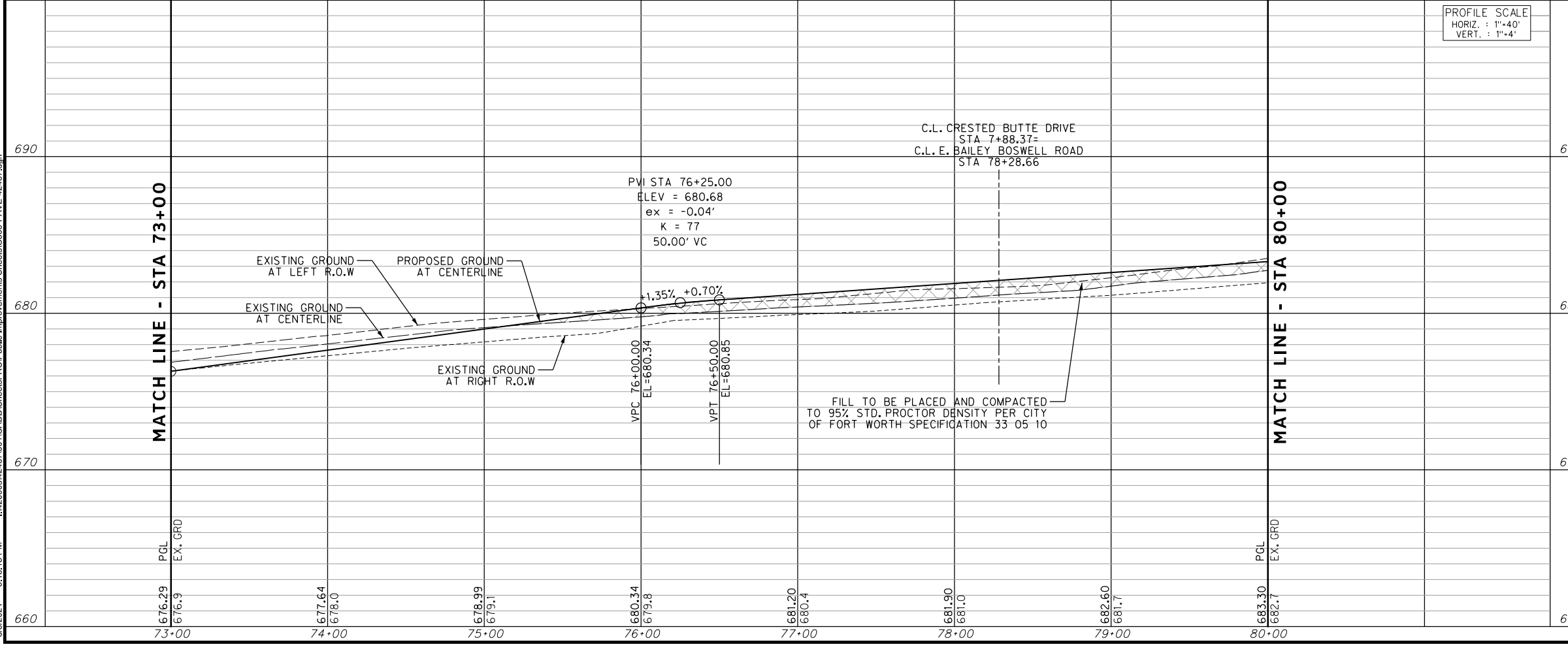
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
 EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
PAVING
 STA 73+00 TO STA 80+00

PLAN & PROFILE

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



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



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.



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104, TBPELS Engineering Firm #312

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) 392-8296
 - 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

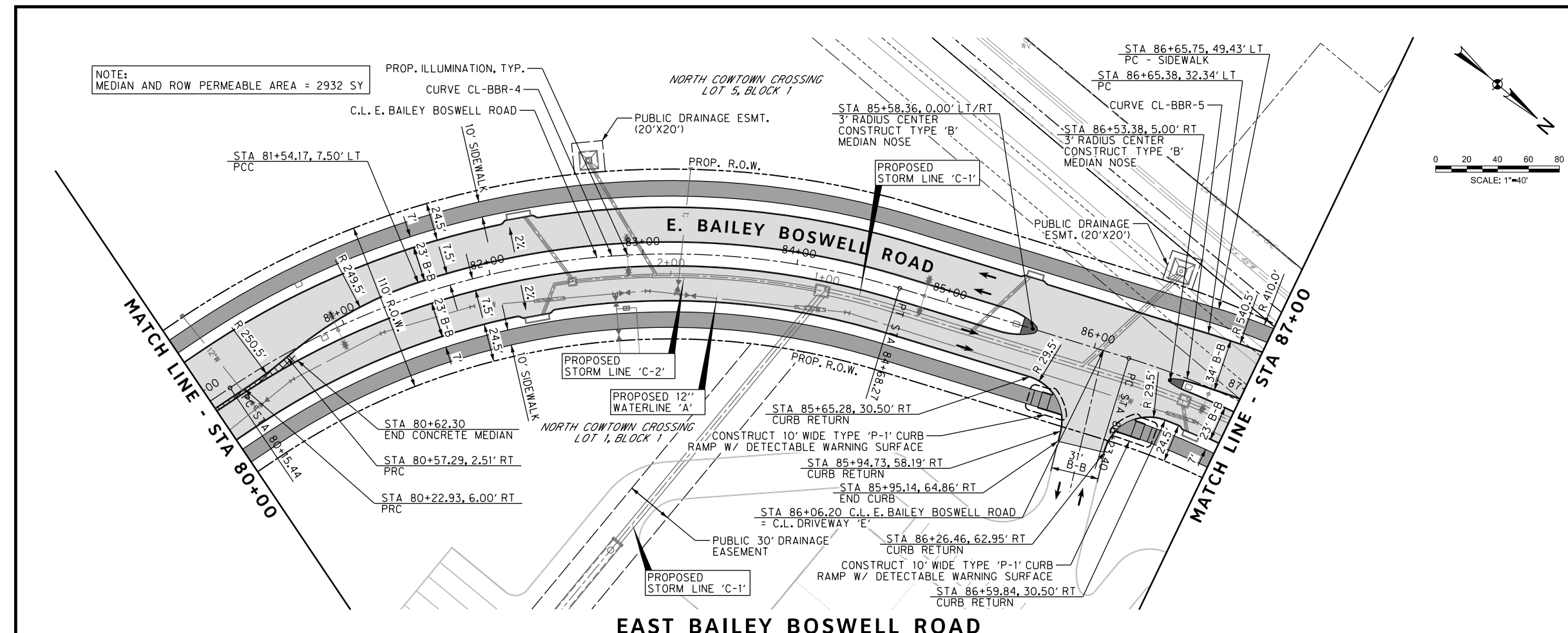
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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

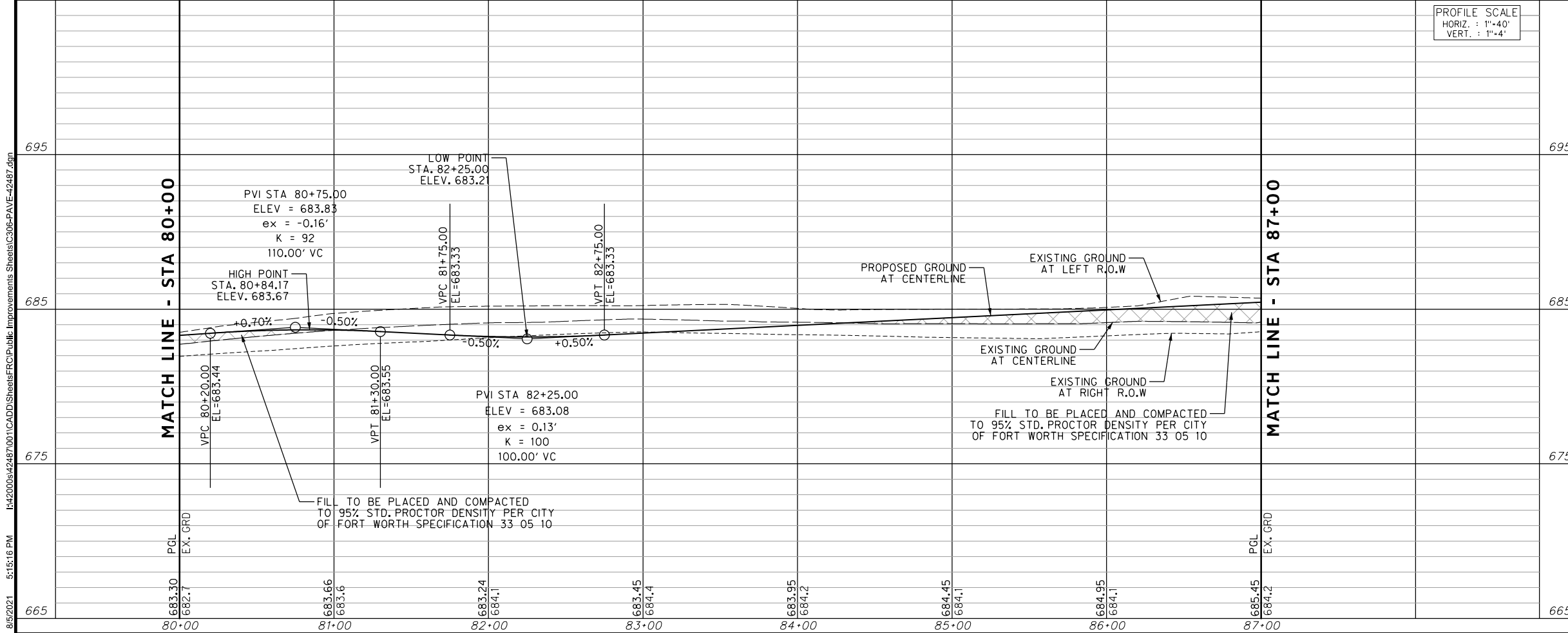
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
PAVING
 STA 80+00 TO STA 87+00

PLAN & PROFILE

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



EAST BAILEY BOSWELL ROAD



8/5/2021 5:15:16 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C306-PAVE-42487.dgn

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



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TIRELS Engineering Firm #312.

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) 392-8296
 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' 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

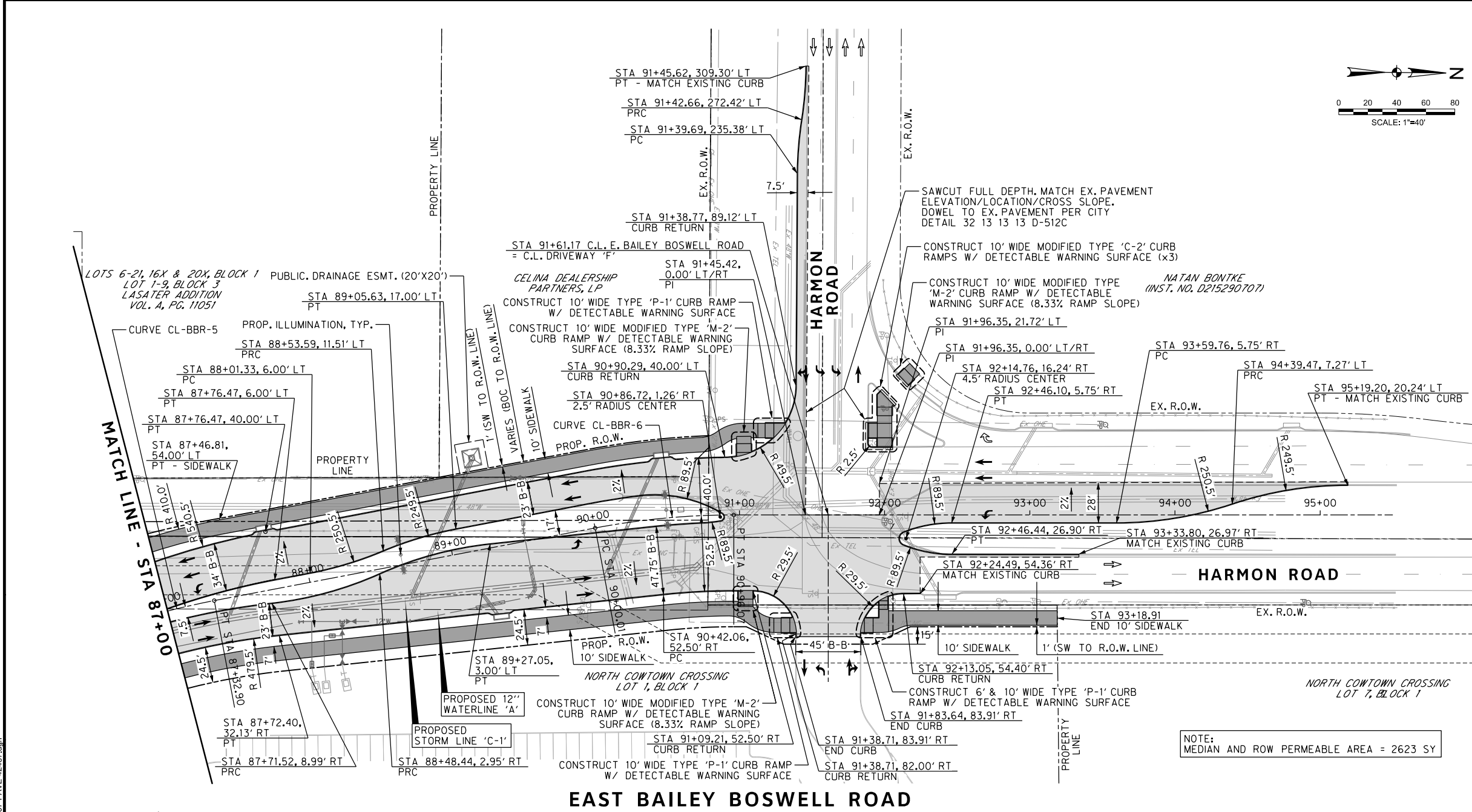
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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

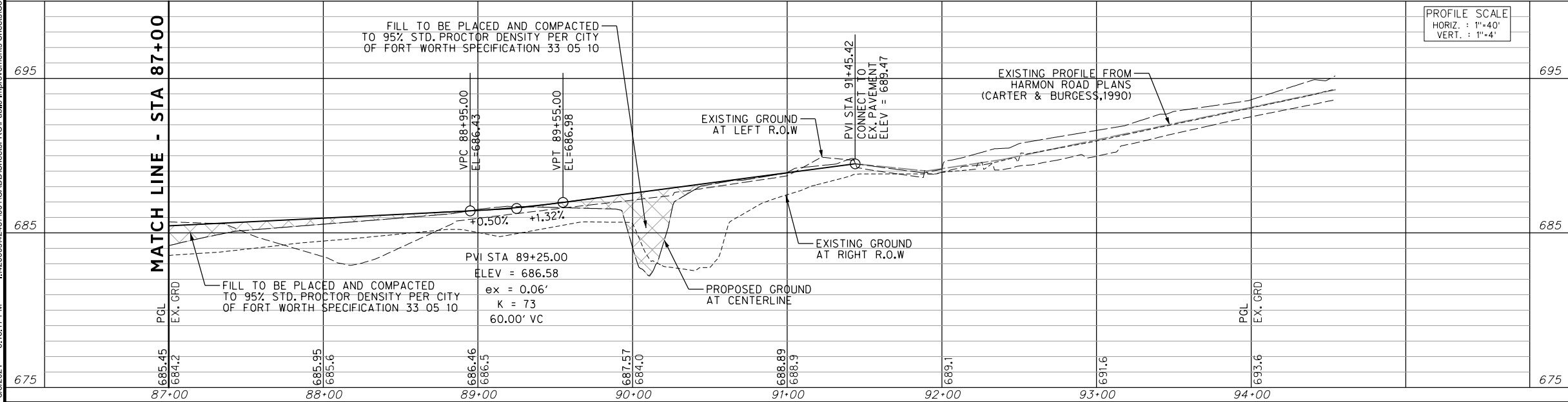
**EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 PAVING
 STA 87+00 TO END**

PLAN & PROFILE

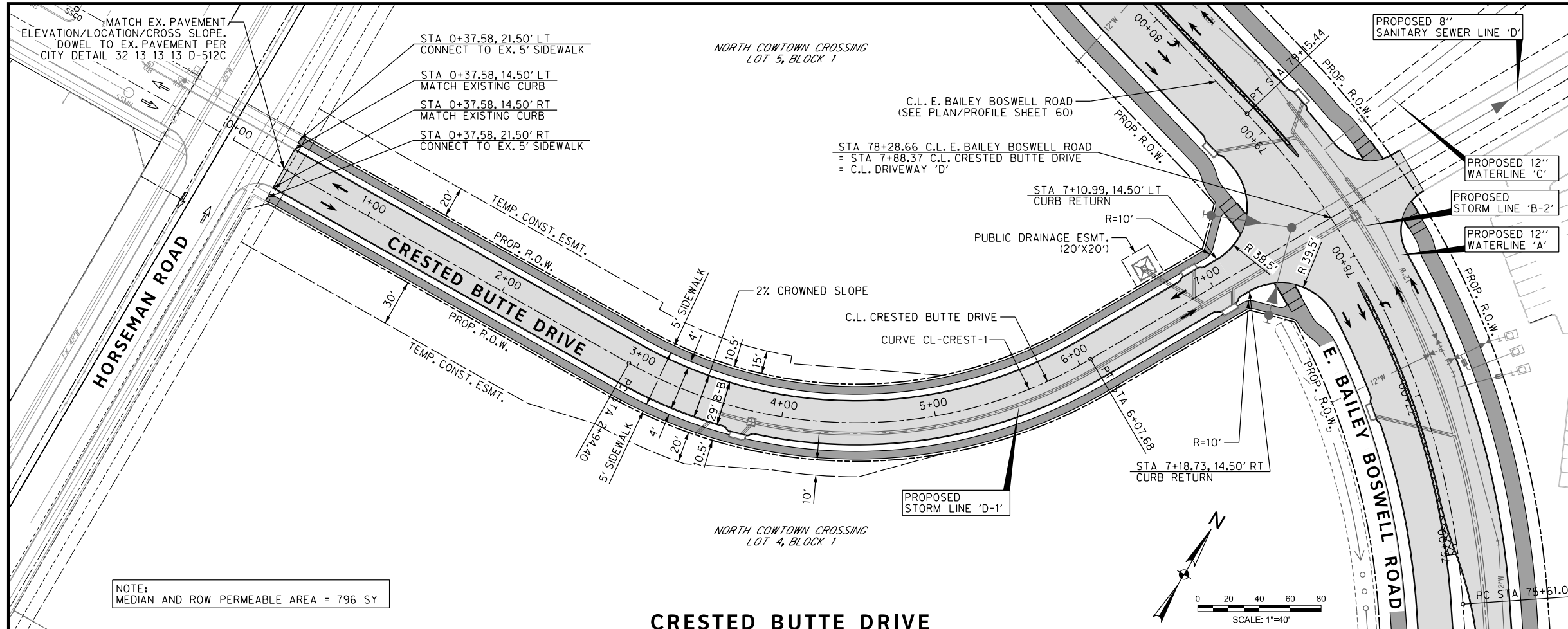
DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 60 OF 189
DRAWN: PTS			



EAST BAILEY BOSWELL ROAD



8/5/2021 5:15:17 PM I:\2020\842487\001\CADD\Sheets\FRC\Public Improvements Sheets\C307-PAVE-42487.dgn



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



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104, TIRELS Engineering Firm #312

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) 392-8296
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

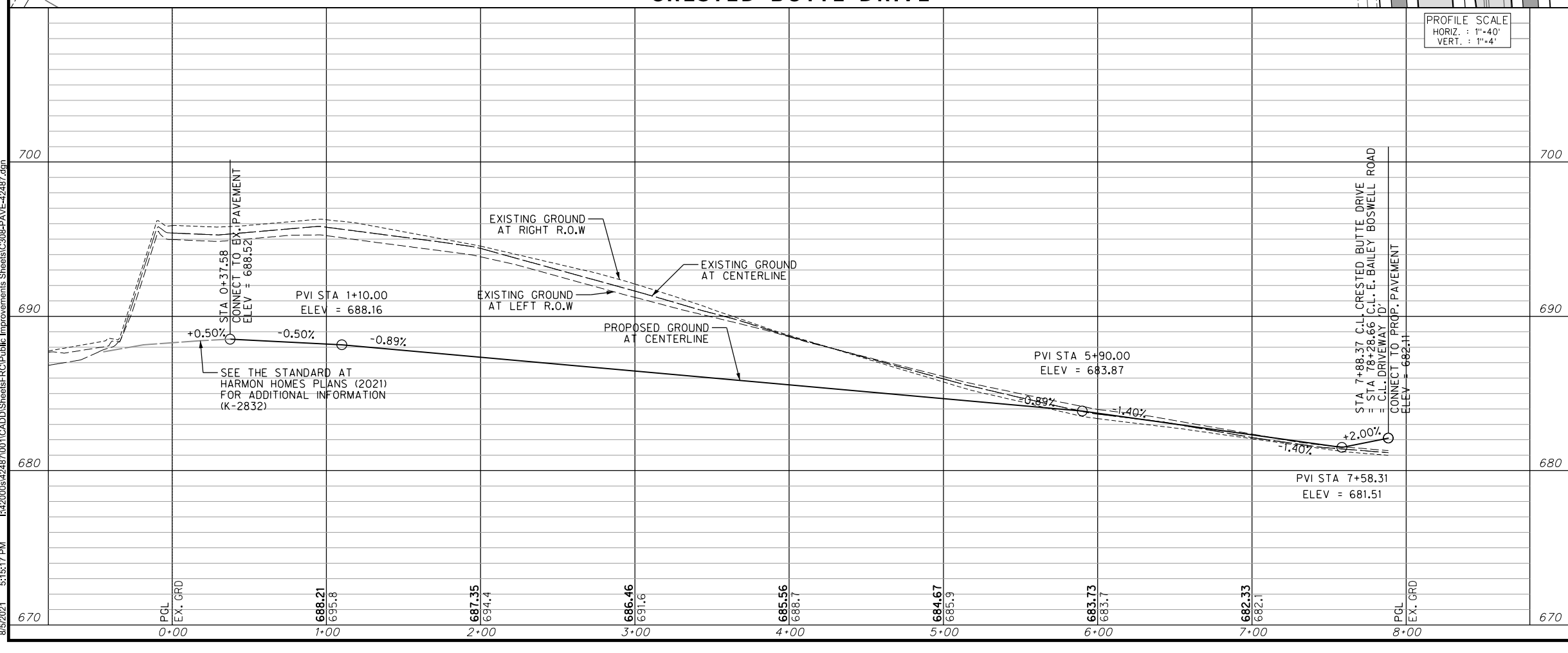
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD

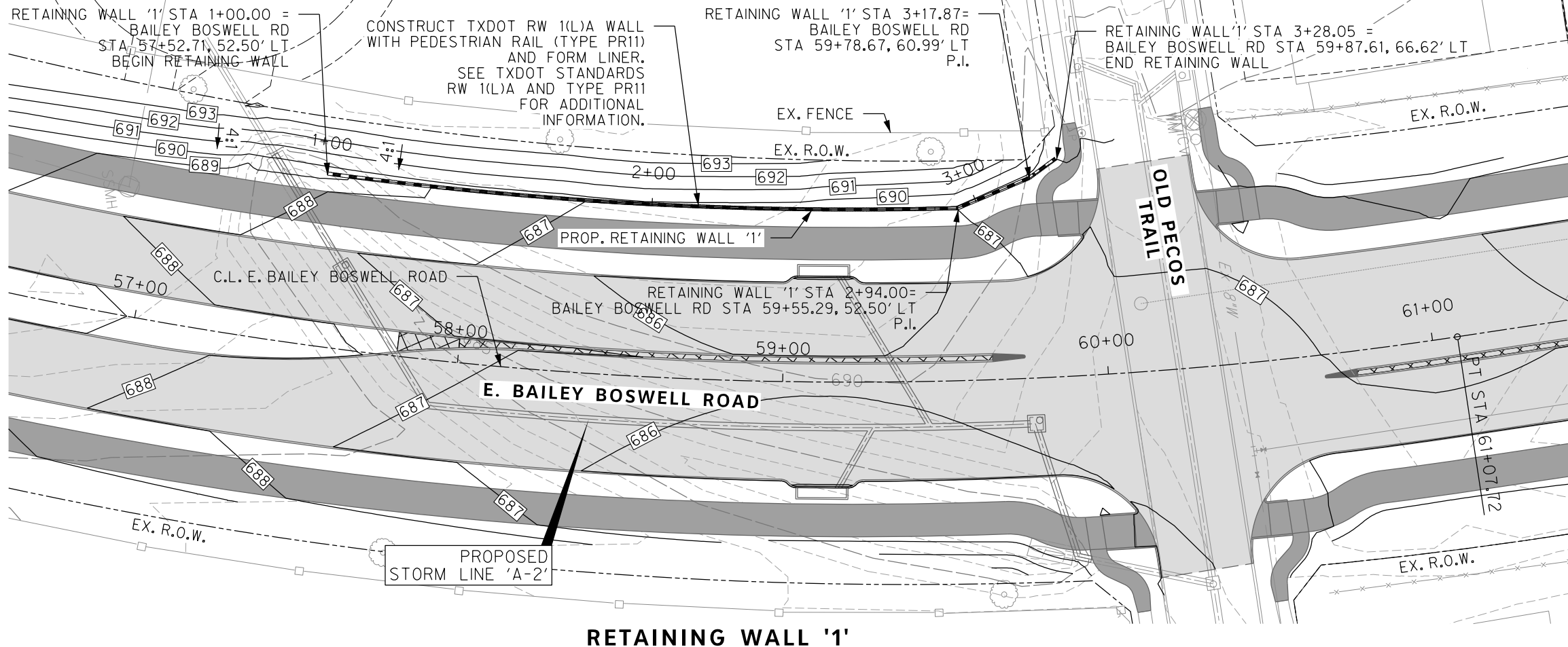
PAVING
CRESTED BUTTE DRIVE

PLAN & PROFILE

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

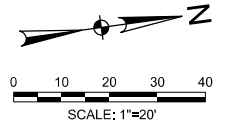


8/5/2021 5:15:17 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C308-PAVE-42487.dgn



RETAINING WALL '1'

REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBEELS Engineering Firm #312.

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) 392-8296
 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
RETAINING WALL '1'

PLAN & PROFILE

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

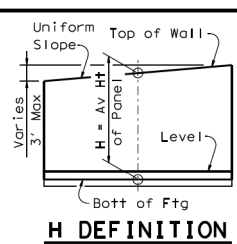
8/5/2021 5:15:18 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements\Sheets\C309-RTWL-42487.dgn

REVISIONS

Table with 3 columns: NO., DESCRIPTION, DATE



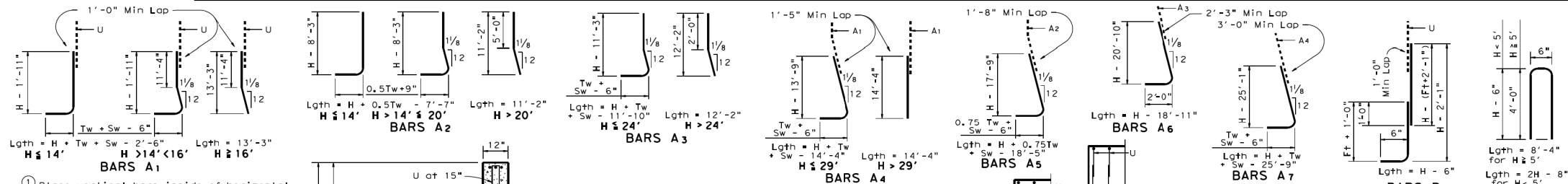
The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021.



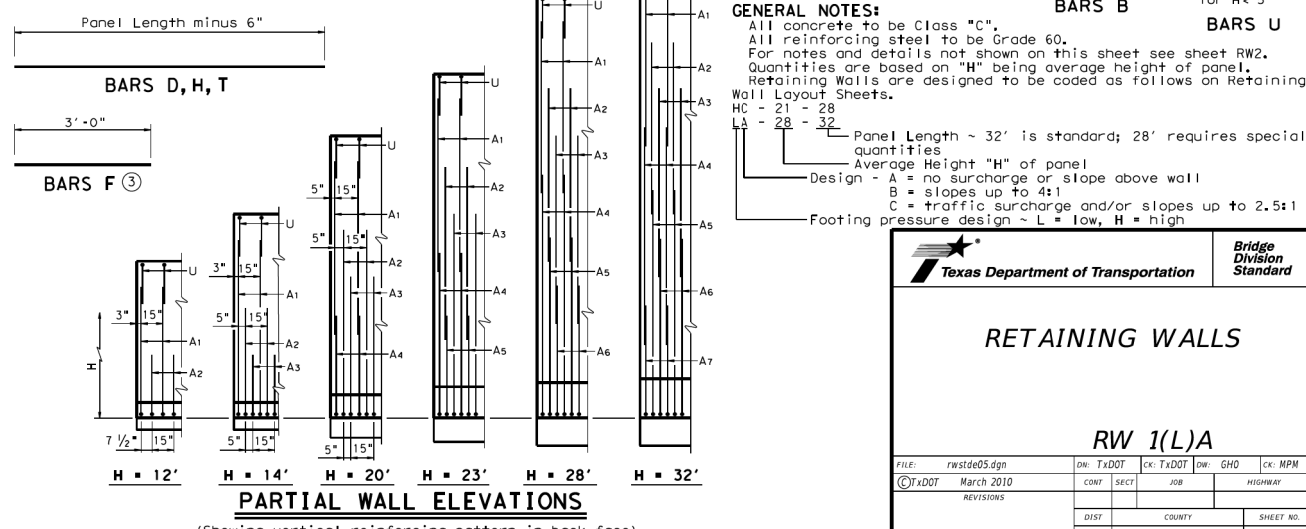
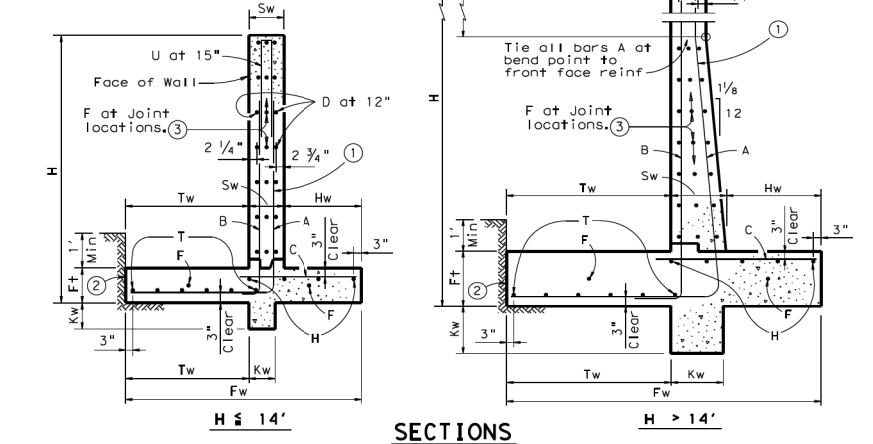
REINFORCING STEEL FOR ONE 32' PANEL (DESIGN A) table with columns for Wall Height 'H', Wall Dimensions, Soil Press, and Rebar specifications (A1-A7, B, C, D, F, H, T, U).

QUANTITY FOR ONE 32' PANEL table with columns for CONC (CY) and REINF (LB) for various bar types.

DISCLAIMER: The use of this standard is governed by the Texas Engineering Practice Act...



- 1 Place vertical bars inside of horizontal bars (Typ both faces).
2 Place footing toe against undisturbed soil.
3 See standard RW 2 for size.



GENERAL NOTES: All concrete to be Class "C". All reinforcing steel to be Grade 60. For notes and details not shown on this sheet see sheet RW2.

RETAINING WALLS Bridge Division Standard

Table with columns: FILE, DW, CK, JOB, HIGHWAY, REVISIONS, DIST, COUNTY, SHEET NO.

CONSTRUCTION NOTES

NOTE: ALL DIMENSIONS AND STATION/OFFSETS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED ON PLANS. CONTRACTOR SHALL PROTECT ALL EXISTING TREES, FENCES, RETAINING WALLS AND STRUCTURES UNLESS OTHERWISE NOTED.

HORIZONTAL & VERTICAL CONTROL

Table with columns for CONTROL POINT #105, #109, #314 including SET, N, E, and ELEV values.

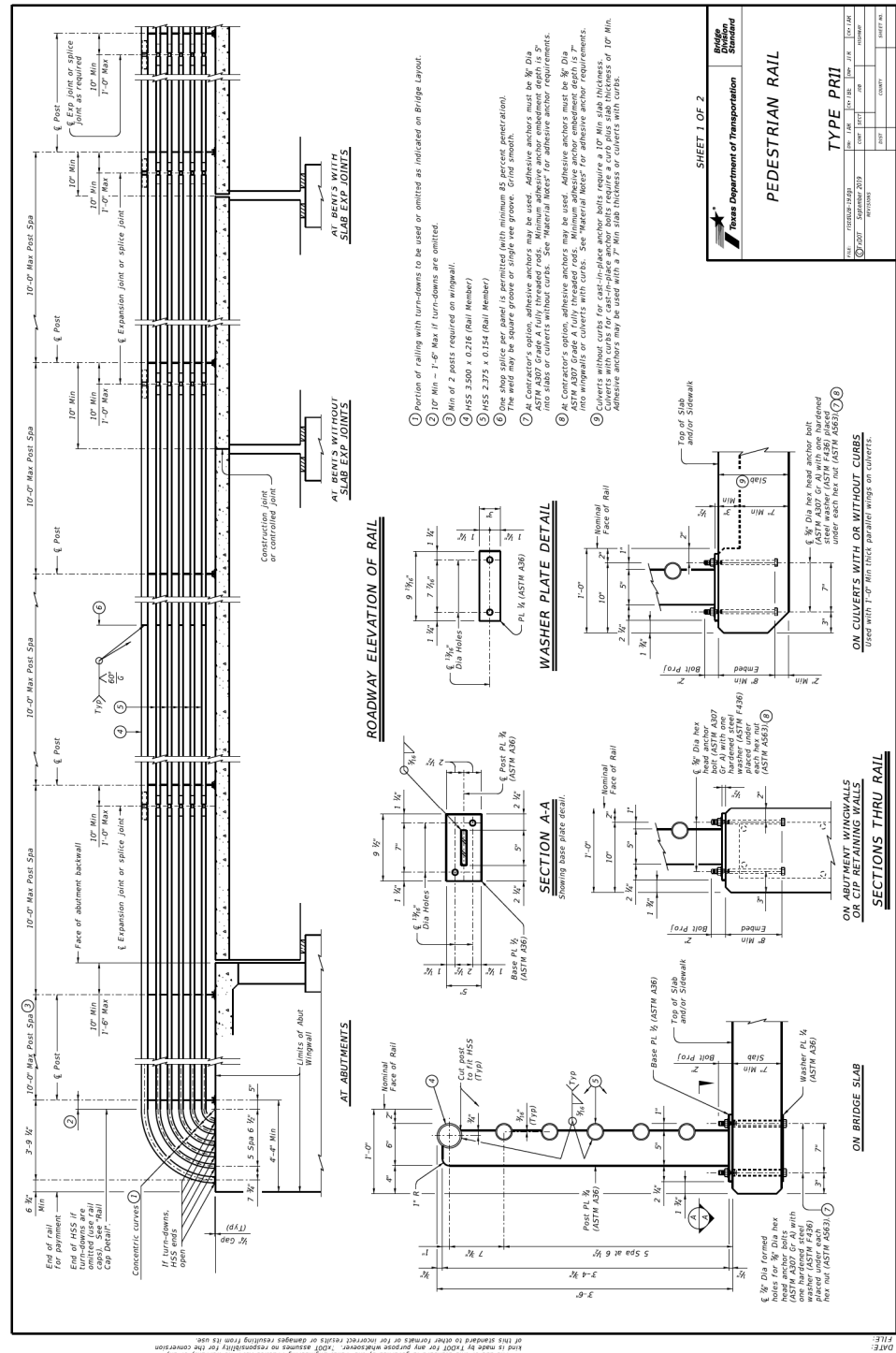
DOE # K-2840
CITY PROJECT # 103320
TPW PROJECT # CXXX-XXXXX-XXXXXXXXXXXX
WATER PROJECT # PXXX-XXXXX-XXXXXXXXXXXX
SEWER PROJECT # PXXX-XXXXX-XXXXXXXXXXXX
MAP NO. XXXX-XXX

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
RETAINING WALL DETAILS (SHEET 1 OF 2)

Table with columns: DESIGNED: TMW, DRAWN: PTS, SCALE: N.T.S., DATE: 06/08/2021, SHEET: 63 OF 189



- CONSTRUCTION NOTES:**
1. Panel lengths of railing must be attached to a minimum of three posts.
 2. At the Contractor's option anchor bolts may be an adhesive anchorage system.
 3. Test adhesive anchors in accordance with Item 450.3.3, "Test". Test specimens shall be installed in the concrete in the same manner as the anchors to be used in the field. The test shall determine the required ultimate tensile strength of the anchors. The test shall also determine the required ultimate shear strength of the anchors.
 4. Adhesive anchors must be installed in accordance with the manufacturer's published literature showing the proposed adhesive anchor. Adhesive anchors, including hole size, drilling and clean out, must be in accordance with Item 450, "Railing".
 5. Design and detailing shall be in accordance with the AASHTO LRFD Specifications.
 6. Rail anchor details shown on this drawing may require additional steel reinforcement. The Contractor shall provide the necessary reinforcement in plans for these modifications.
 7. For the purpose of this drawing, the following section lengths, splice locations, rail post spacing and anchor bolt setting for approval. Average weight of railing is 30 lb.

PEDESTRIAN RAIL

Trans Department of Transportation

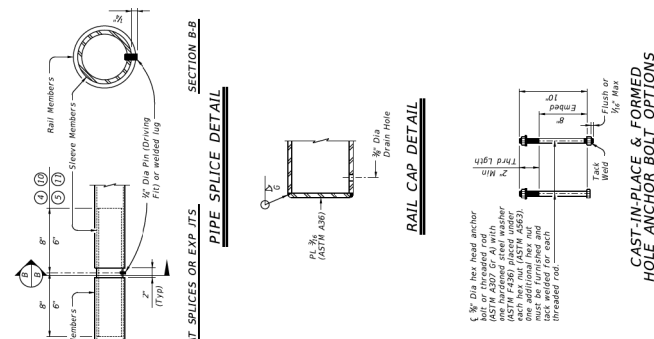
TYPE PRII

DATE: 10/20/2019 10:58:11 AM

BY: [Signature]

PROJECT: [Project Name]

SHEET 1 OF 2



- CONSTRUCTION NOTES:**
1. HSS 3.500 x 0.216 (Rail Member)
 2. HSS 2.275 x 0.154 (Rail Member)
 3. HSS 1.800 x 0.145 (Shear Member)
- CONSTRUCTION NOTES:**
1. Portion of railing with turn-downs to be used or omitted as indicated on Bridge Layout.
 2. 10" Min - 1'-6" Max If turn-downs are omitted.
 3. Min of 2 posts required on wingwall.
 4. HSS 3.500 x 0.216 (Rail Member)
 5. HSS 2.275 x 0.154 (Rail Member)
 6. One shop splice per panel is permitted (with minimum 85 percent penetration).
 7. The weld may be square groove or single vee groove. Grind smooth.
 8. At Contractor's option, adhesive anchors may be used. Adhesive anchors must be 3/4" Dia. and installed in accordance with the manufacturer's published literature showing the proposed adhesive anchor. Adhesive anchors, including hole size, drilling and clean out, must be in accordance with Item 450, "Railing".
 9. At Contractor's option, adhesive anchors may be used. Adhesive anchors must be 3/4" Dia. and installed in accordance with the manufacturer's published literature showing the proposed adhesive anchor. Adhesive anchors, including hole size, drilling and clean out, must be in accordance with Item 450, "Railing".
 10. Curbs without curbs for cast-in-place anchor bolts require a 10" Min slab thickness. Adhesive anchors may be used with a 3" Min slab thickness or curbs with curbs.

PEDESTRIAN RAIL

Trans Department of Transportation

TYPE PRII

DATE: 10/20/2019 10:58:11 AM

BY: [Signature]

PROJECT: [Project Name]

SHEET 2 OF 2

REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 09/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104, TIRELS Engineering Firm #312

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) 392-8296
 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 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

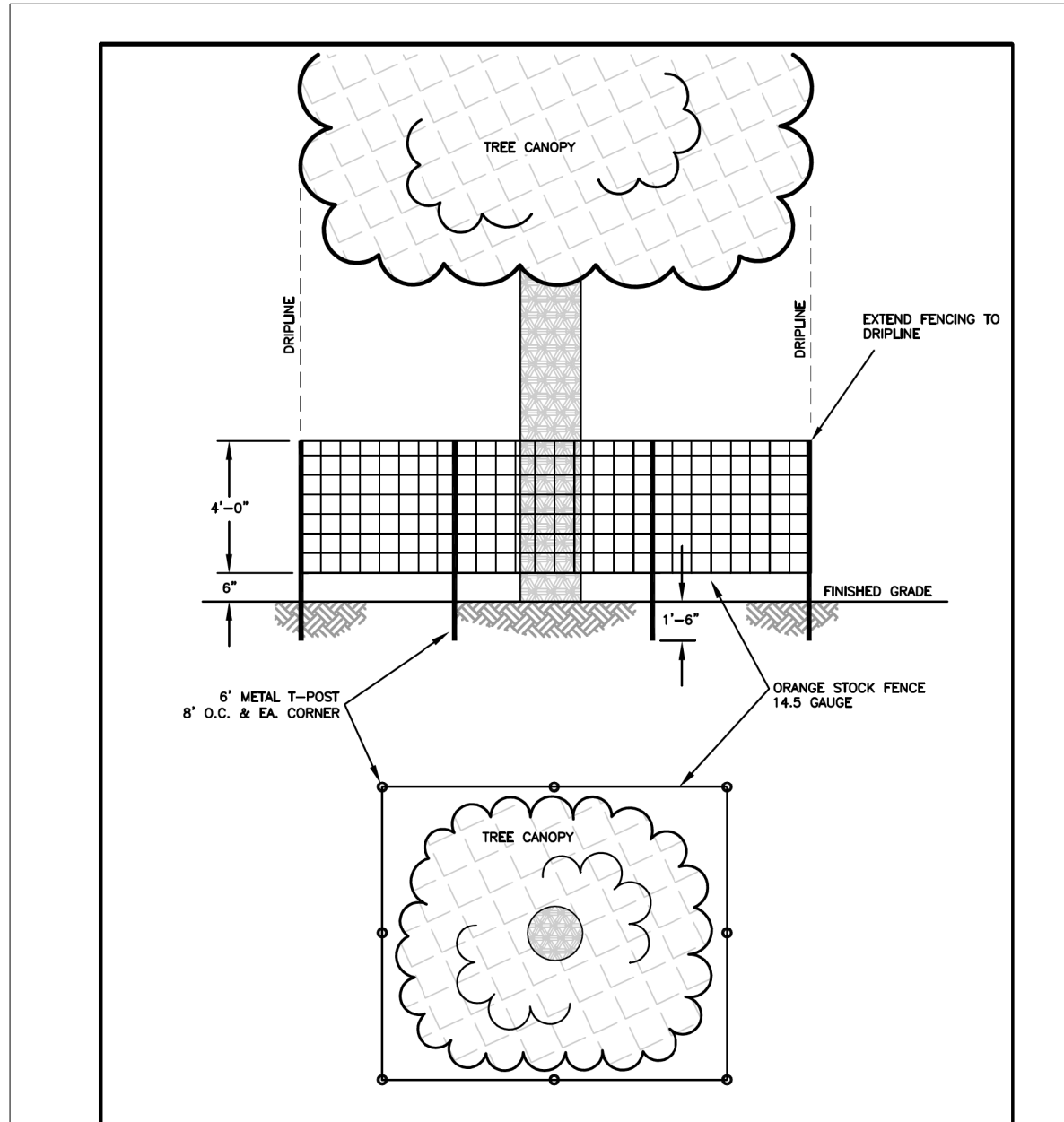
TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD

RETAINING WALL DETAILS
 (SHEET 2 OF 2)

DESIGNED: TMW	SCALE:	DATE:	SHEET
DRAWN: PTS	N.T.S.	06/08/2021	64 OF 189

8/5/2021 5:15:34 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C349-DTRE-42487.dgn



NOTES:

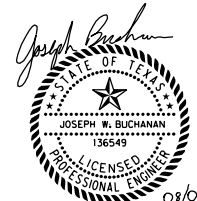
- 1) PROTECTIVE TREE FENCING INSTALLED AT THE TREE DRIPLINE.
- 2) PROTECTIVE TREE FENCING TO BE PUT IN PLACE BEFORE GRADING/CONSTRUCTION BEGINS AND REMAIN UNTIL COMPLETION OF THE PROJECT.
- 3) PROTECTIVE TREE FENCING TO BE INSPECTED BY THE CITY FORESTER BEFORE GRADING/CONSTRUCTION BEGINS. PROVIDE 48-HRS MINIMUM NOTICE TO 817-392-5738 AND/OR CITYTREEPERMITS@FORTWORTHTEXAS.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@FORTWORTHTEXAS.GOV (EMAIL) OR 817-392-5738 (PHONE).

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBPELS Engineering Firm #312

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) 392-8296
 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**

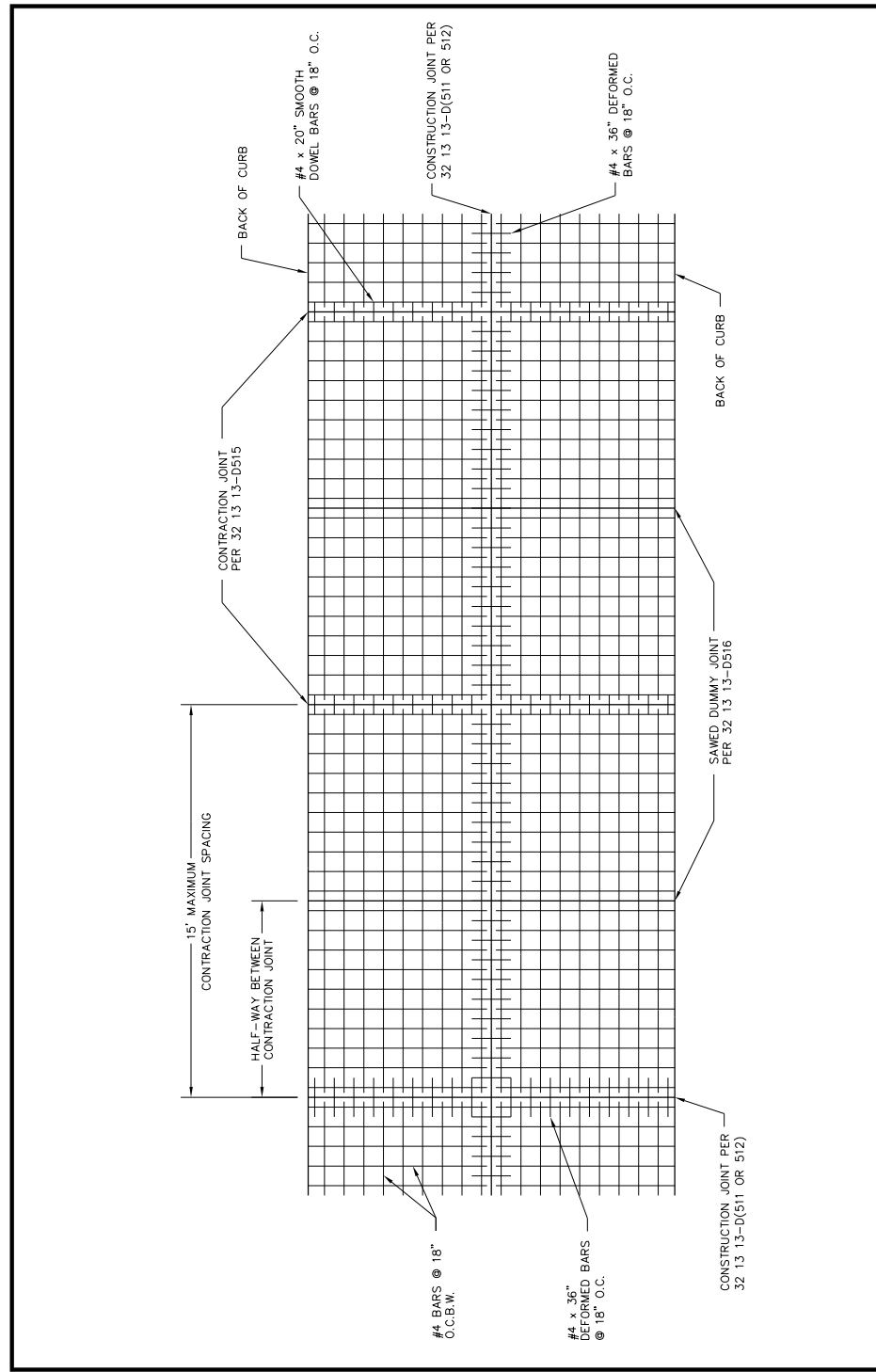
**TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

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

**REMOVAL DETAILS
 (SHEET 1 OF 1)**

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 65 OF 189
DRAWN: PTS			

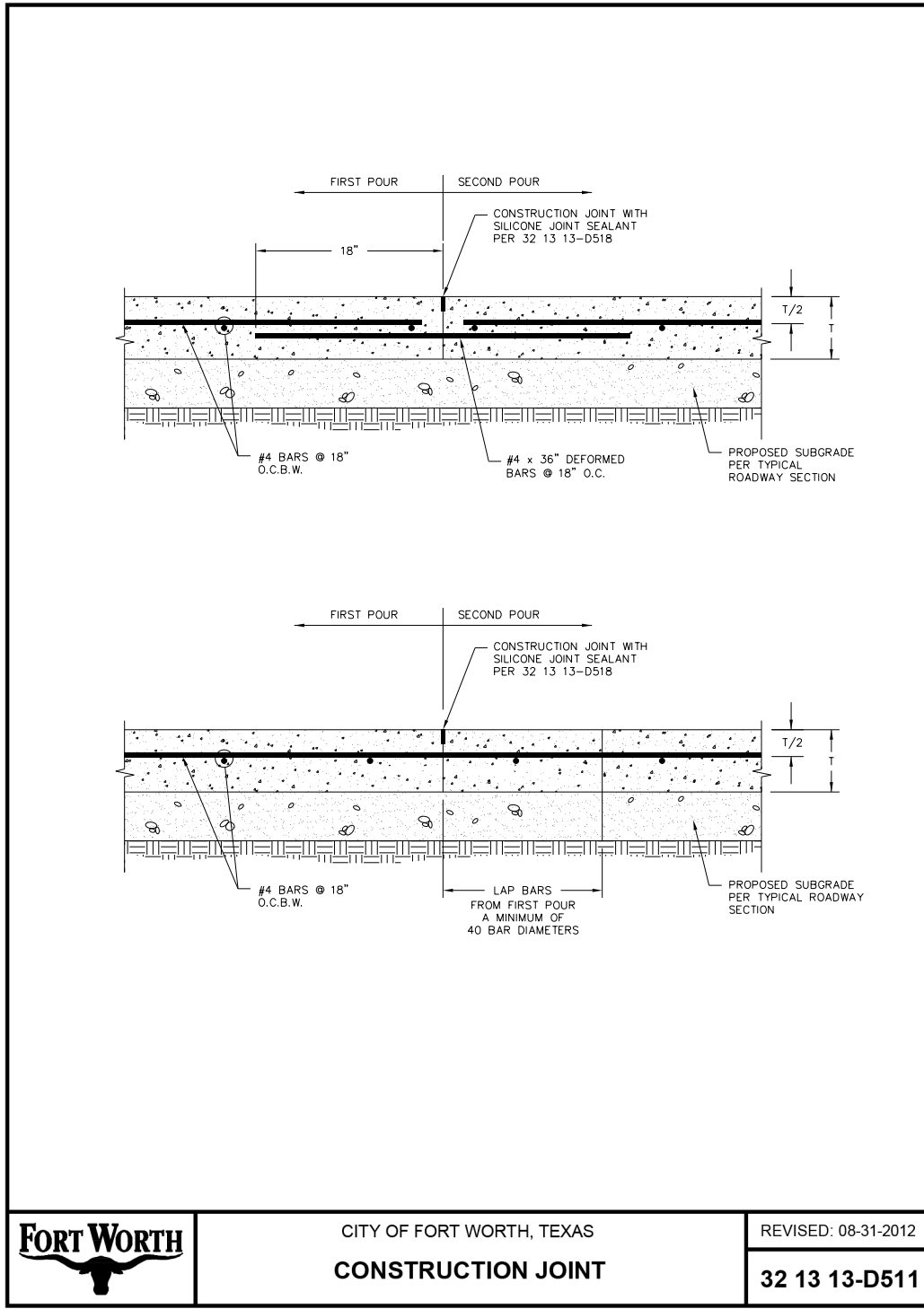
8/5/2021 5:15:37 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C350-DTPV-42487.dgn



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

CITY OF FORT WORTH, TEXAS
**PAVEMENT STEEL REINFORCING
GENERAL LAYOUT**

FORT WORTH



FORT WORTH

CITY OF FORT WORTH, TEXAS
CONSTRUCTION JOINT

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

REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TIRELS Engineering Firm #312.

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) 392-8296
 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 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

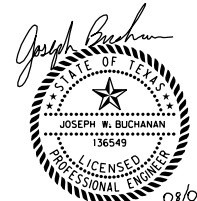
CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER
EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
CONCRETE PAVING DETAILS
(SHEET 1 OF 10)

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

8/5/2021 5:15:43 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C351-DTPV-42487.dgn

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TIRELS Engineering Firm #312

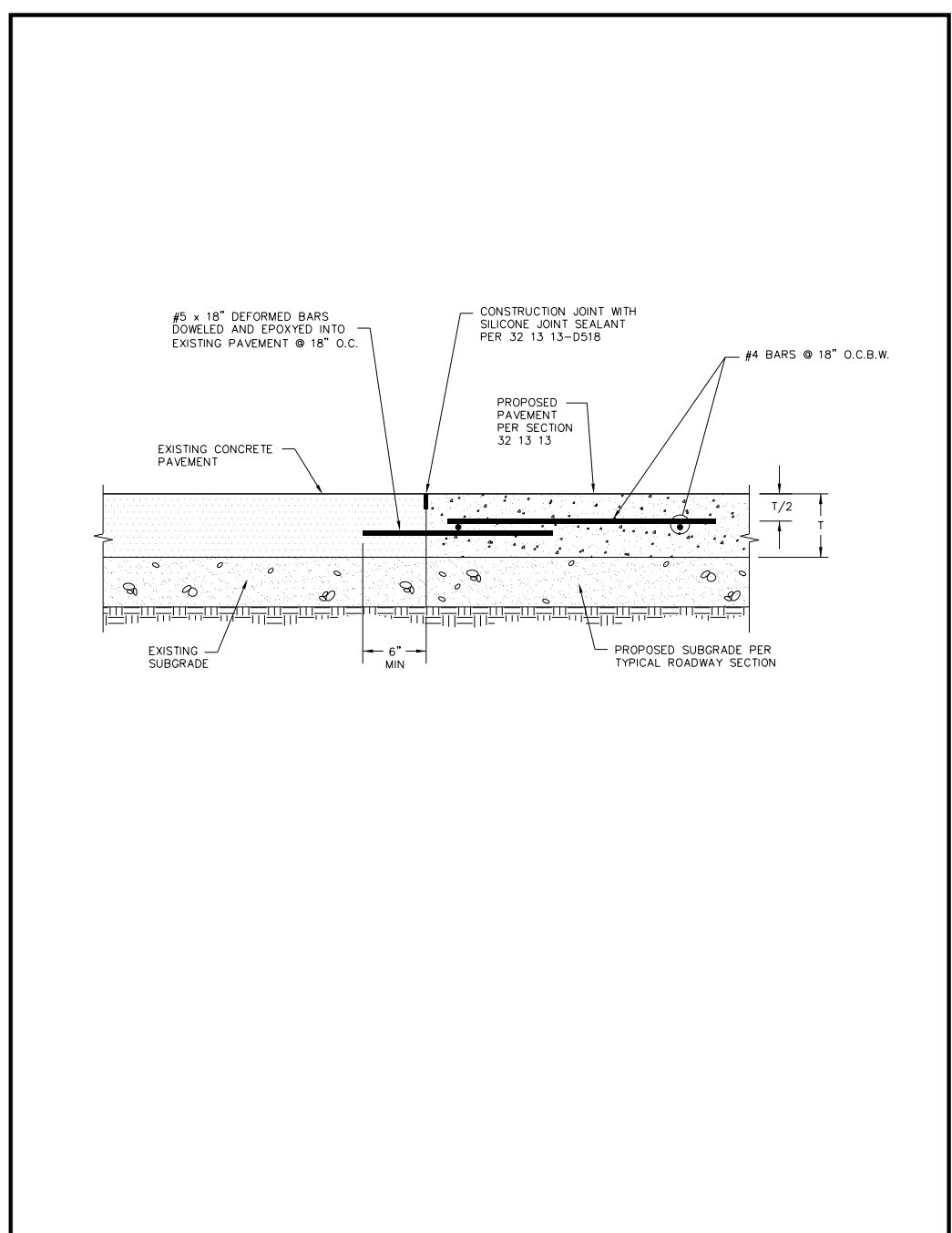
CONSTRUCTION NOTES

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) 392-8296
 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

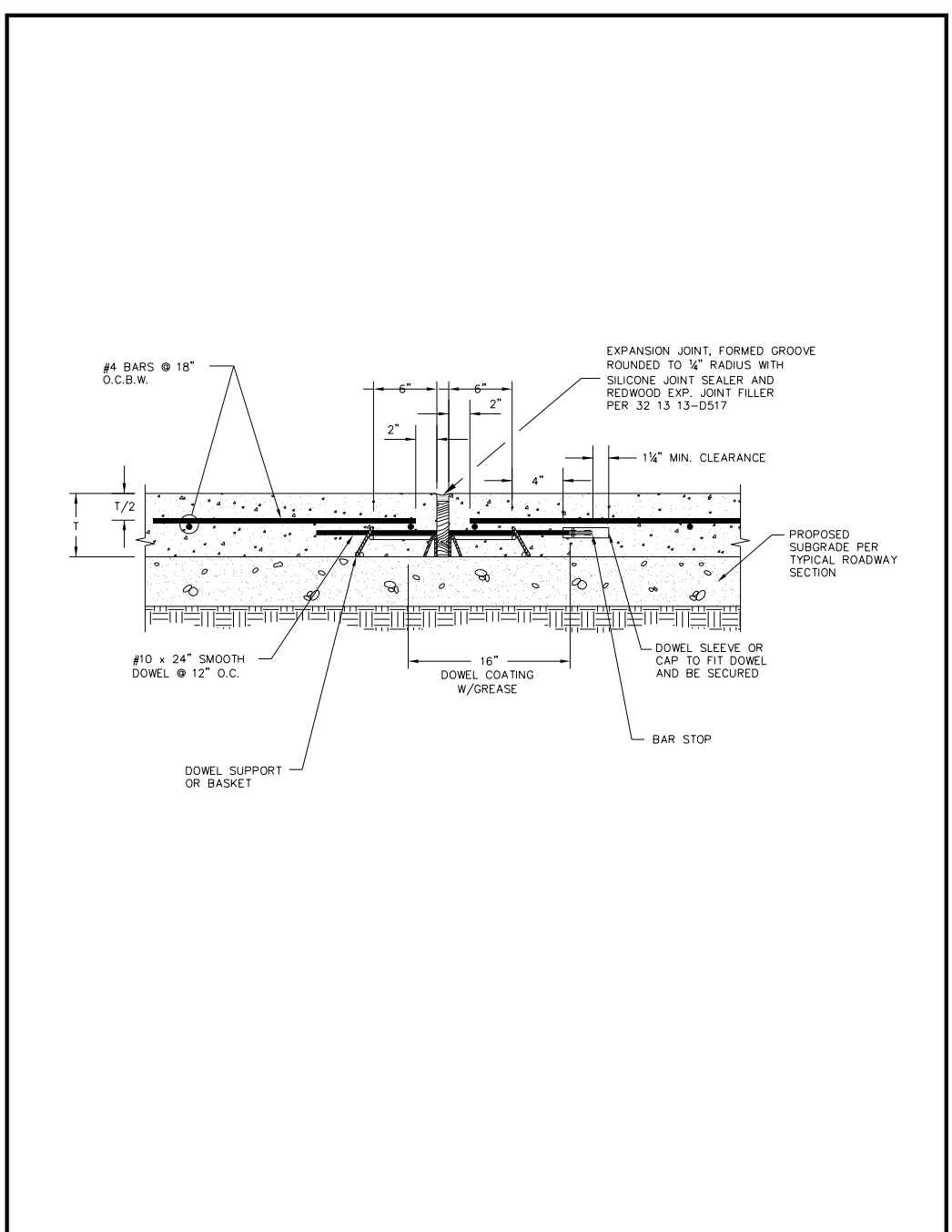
HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT' 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 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:	DATE:	SHEET
DRAWN: PTS	N.T.S.	06/08/2021	67 OF 189

8/5/2021 5:15:48 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C352-DTPV-42487.dgn

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBPELS Engineering Firm #312

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) 392-8296
 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' 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

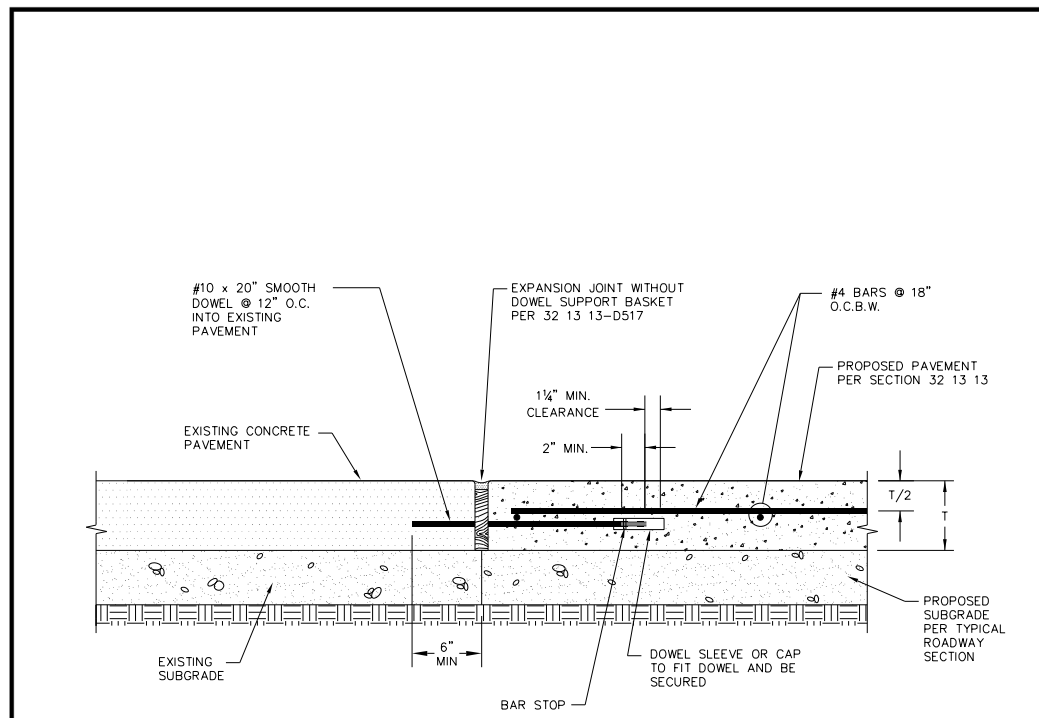
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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

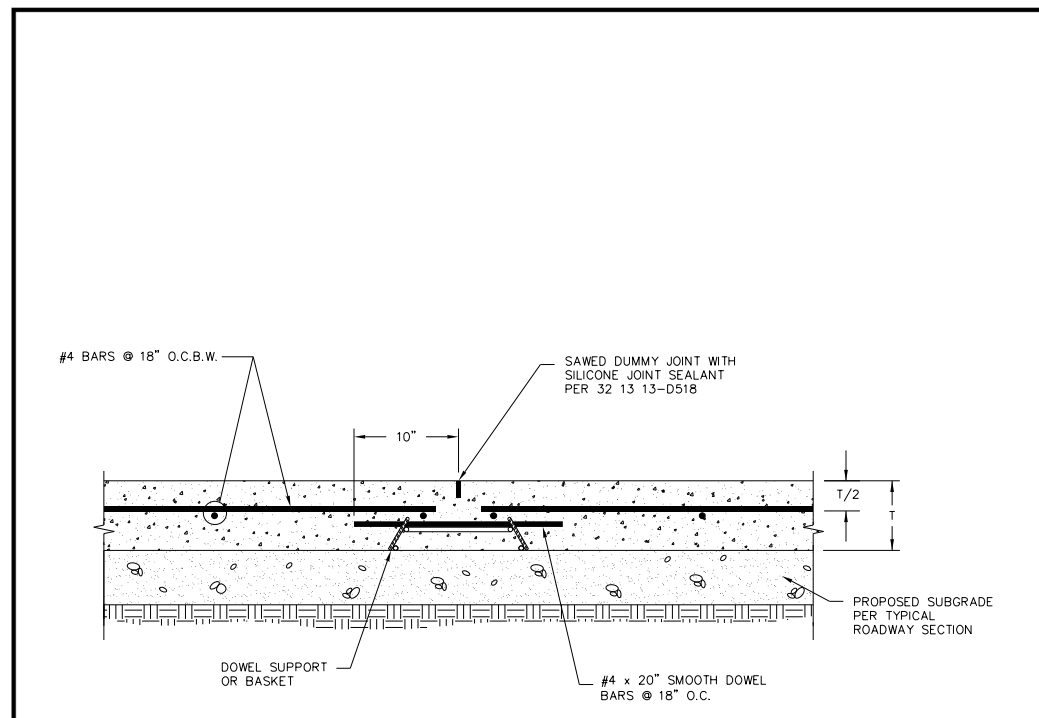
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
CONCRETE PAVING DETAILS
 (SHEET 3 OF 10)

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

8/5/2021 5:15:48 PM C352-DTPV-42487.dgn



	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

8/5/2021 5:15:54 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C353-DTPV-42487.dgn

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBPELS Engineering Firm #312

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) 392-8296
 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

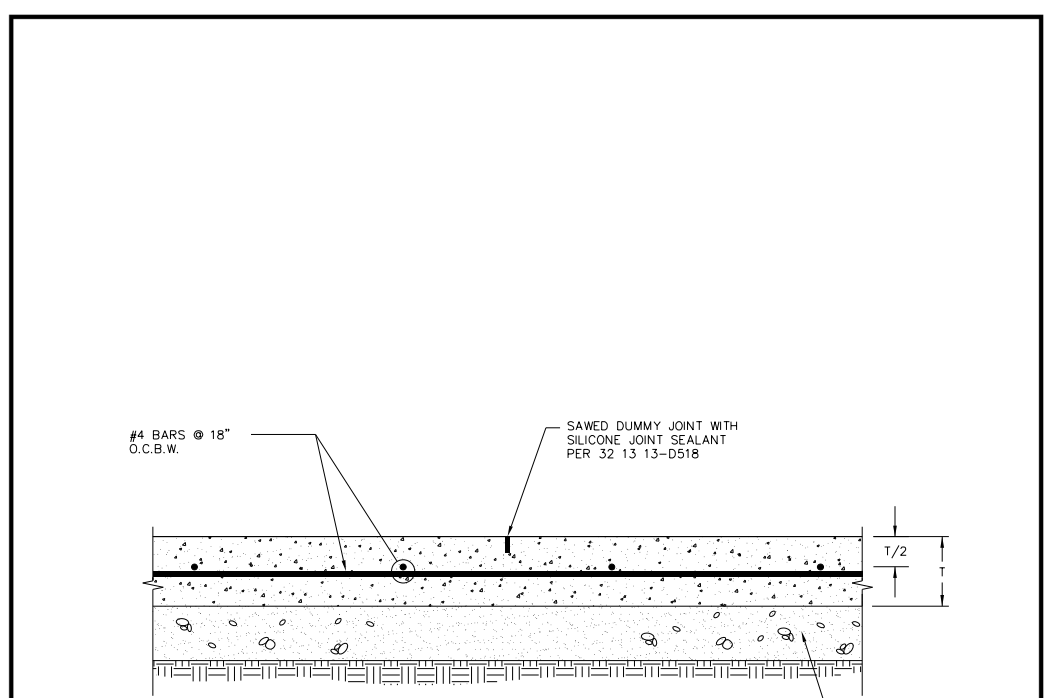
CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

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

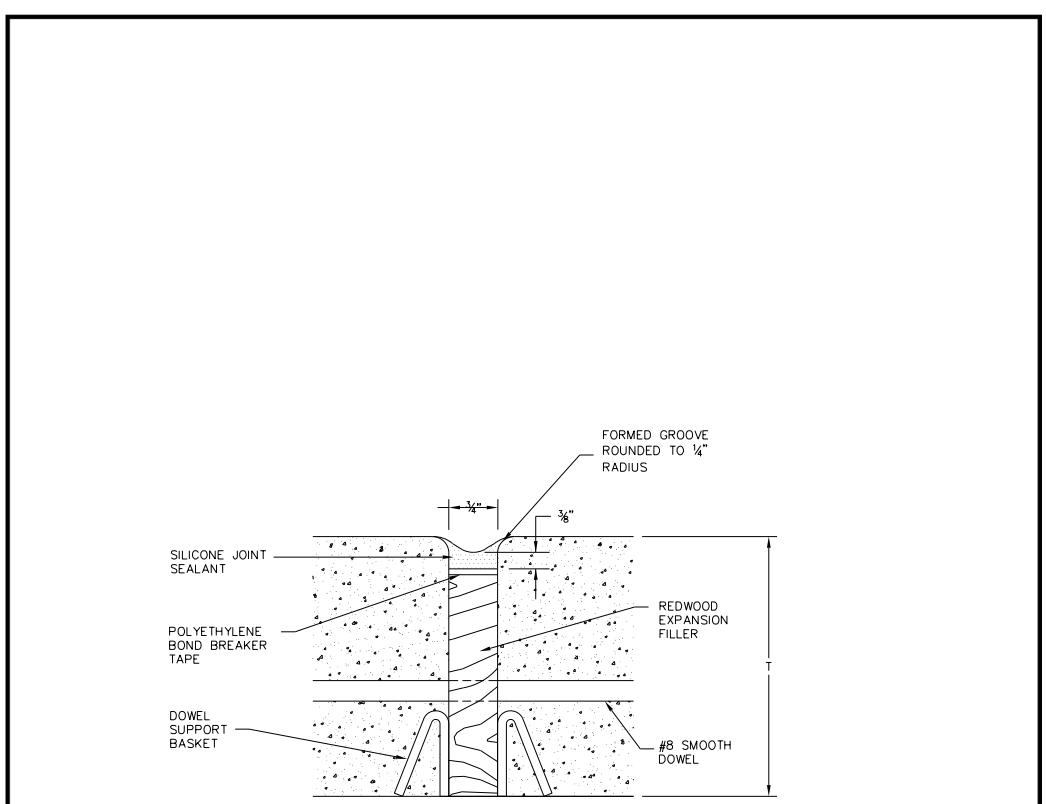
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
CONCRETE PAVING DETAILS
 (SHEET 4 OF 10)

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



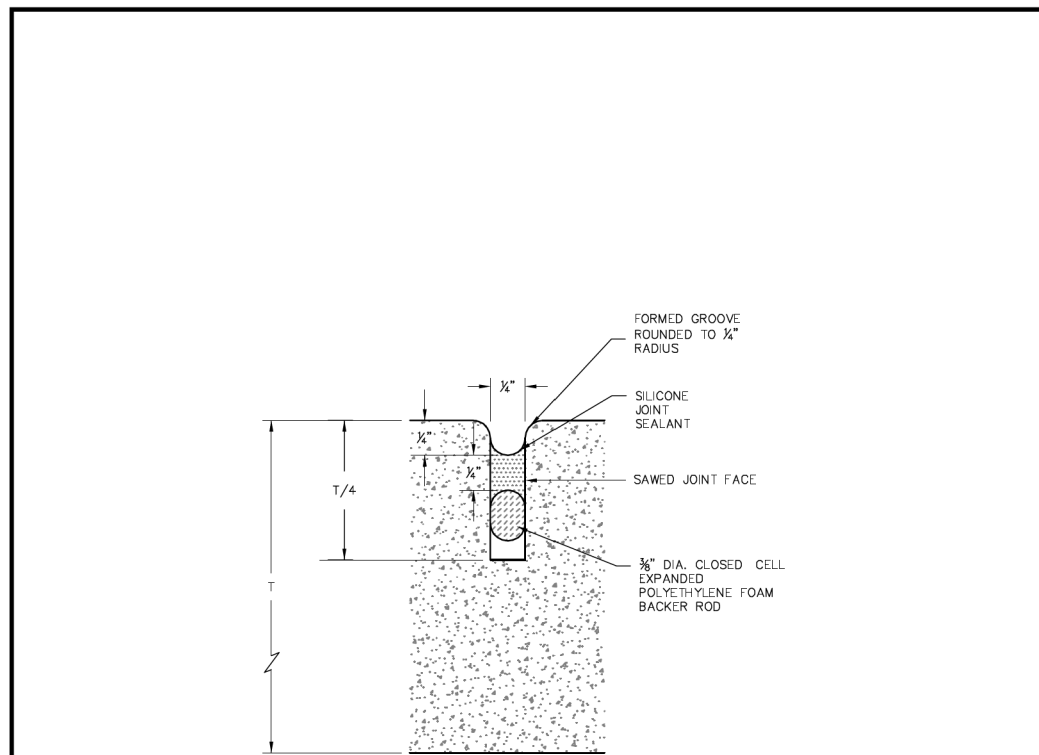
PROPOSED SUBGRADE PER TYPICAL ROADWAY SECTION

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

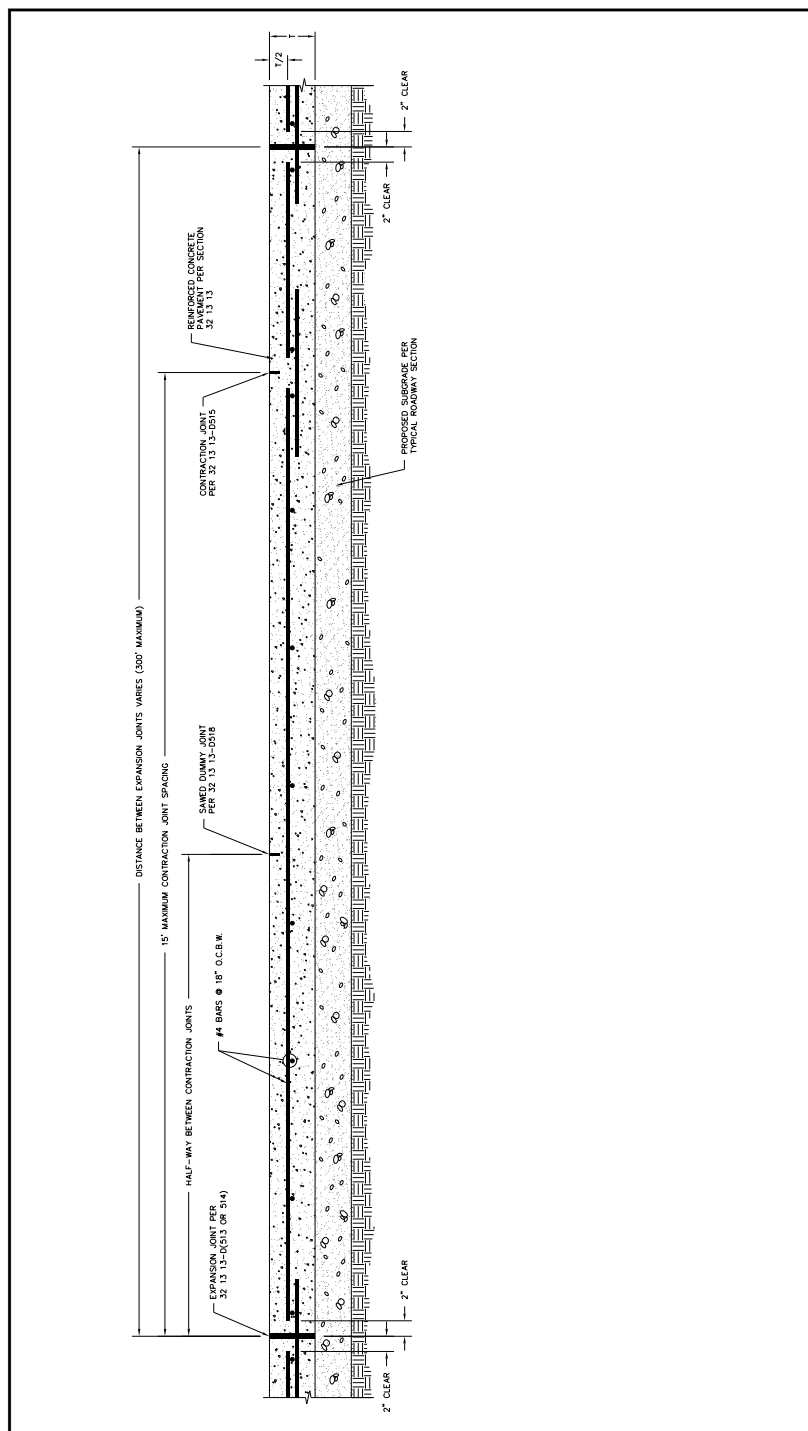


	CITY OF FORT WORTH, TEXAS	REVISED: 08-31-2012
	REDWOOD EXPANSION JOINT DETAIL	32 13 13-D517

8/5/2021 5:15:59 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C354-DTPV-42487.dgn



	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		
NO.	DESCRIPTION	DATE
1		
2		
3		

TBPE FIRM #F-312
 3803 PARKWOOD BLVD., STE 800
 FRISCO, TEXAS 75034-8640
 (214) 217-8994



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBPEIS Engineering Firm #312

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) 392-8296
 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

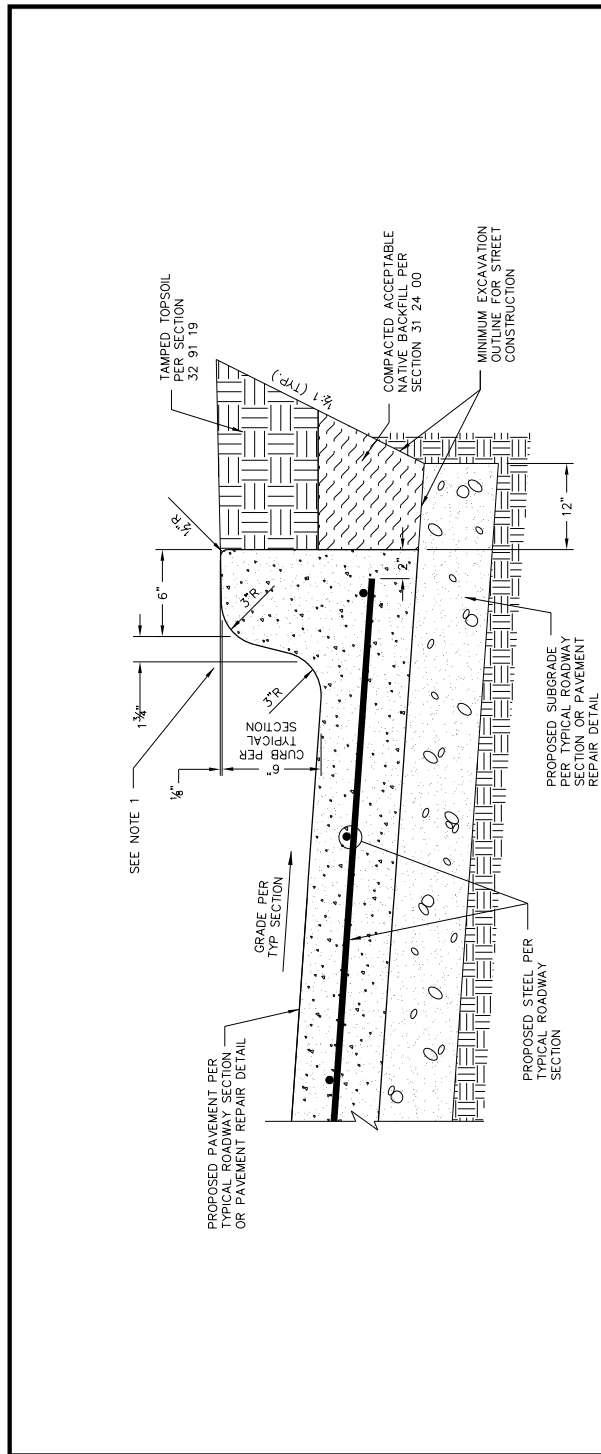
HORIZONTAL & VERTICAL CONTROL		
CONTROL POINT #105 SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	CONTROL POINT #109 SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	CONTROL POINT #314 SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97

DOE # _____ K-2840
 CITY PROJECT # 103320 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

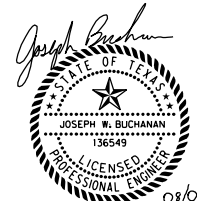
STANDARD MONOLITHIC CURB

REVISED: 08-31-2012

32 13 13-D525

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TIRELS Engineering Firm #312

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) 392-8296
 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' 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

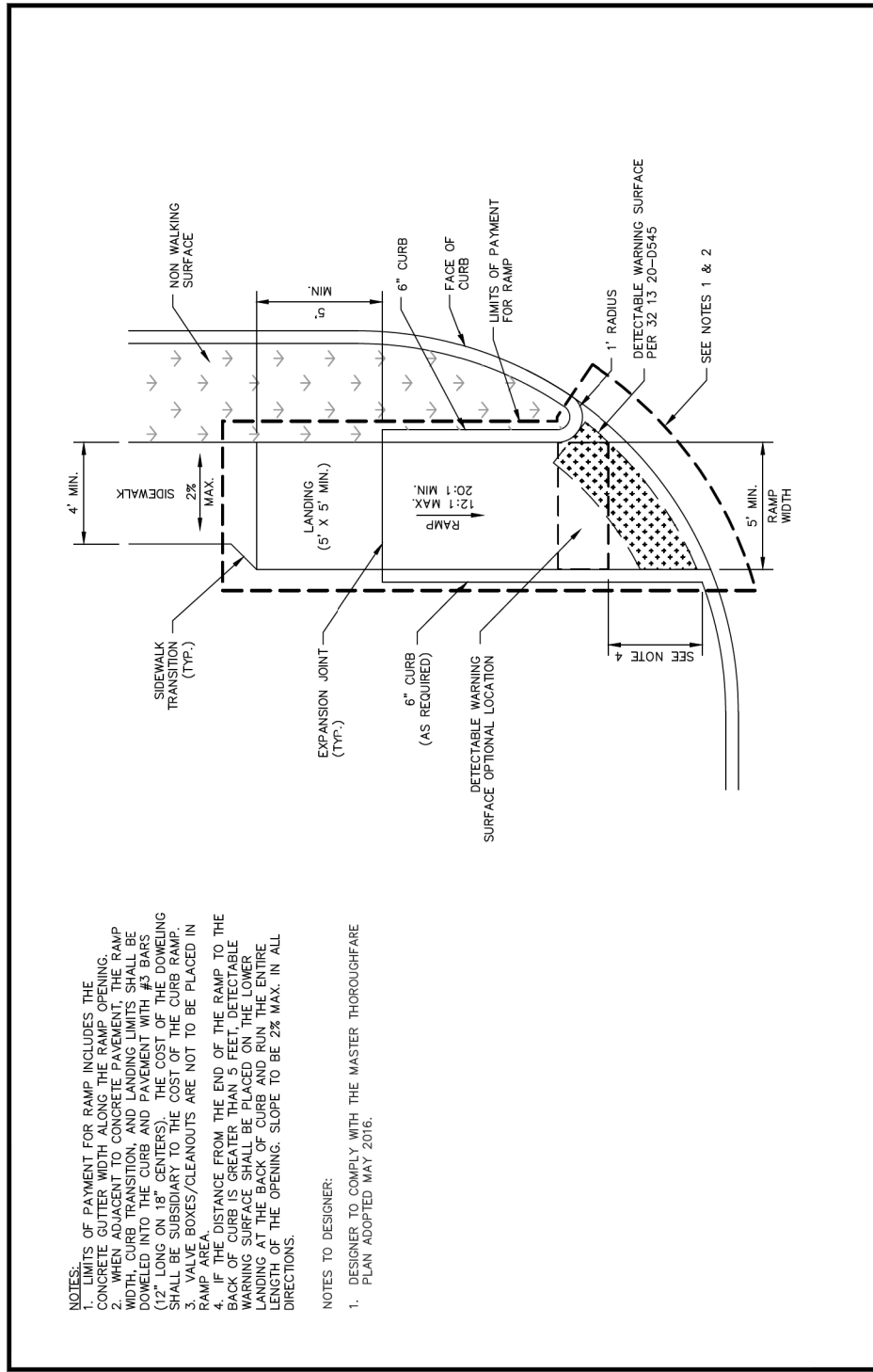
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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
CONCRETE PAVING DETAILS
 (SHEET 6 OF 10)

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



NOTES:
 1. LIMITS OF PAYMENT FOR RAMP INCLUDES THE WIDTH OF 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.
 4. 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 END OF THE RAMP AND RUN THE ENTIRE LENGTH OF THE OPENING. SLOPE TO BE 2% MAX. IN ALL DIRECTIONS.

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



CITY OF FORT WORTH, TEXAS

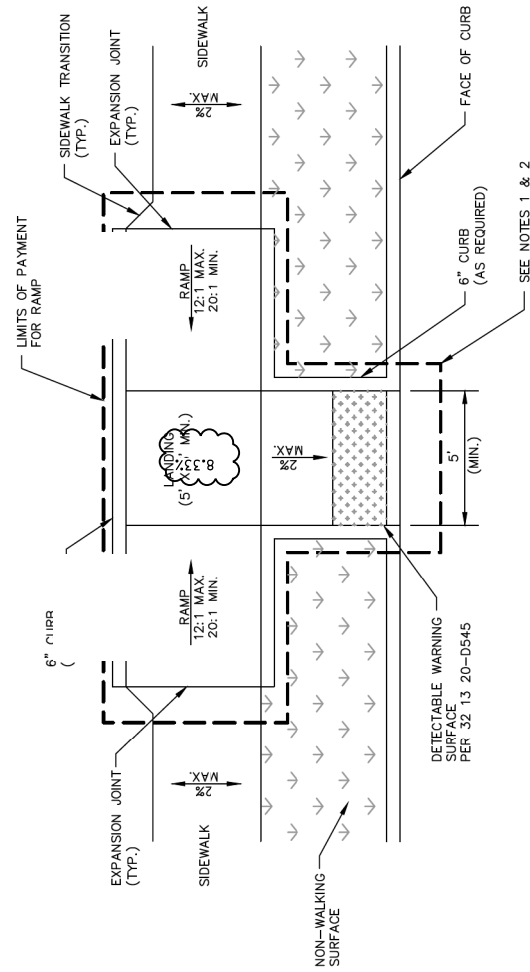
TYPE P-1 PERPENDICULAR CURB RAMP

REVISED: 04-13-2021

32 13 20-D540

NOTES:
 1. LIMITS OF PAYMENT FOR RAMP INCLUDES THE CONCRETE GUTTER 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.



CITY OF FORT WORTH, TEXAS

TYPE M-2 MID-BLOCK RAMP (SIDEWALK) ADJACENT TO NON-WALKING SURFACE

REVISED: 04-13-2021

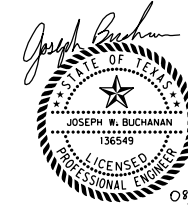
32 13 20-D538

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



3803 PARKWOOD BLVD., STE 800
 FRISCO, TEXAS 75034-8640
 (214) 217-8994



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034. TBP/E/S Engineering Firm #312

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) 392-8296
 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-XXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

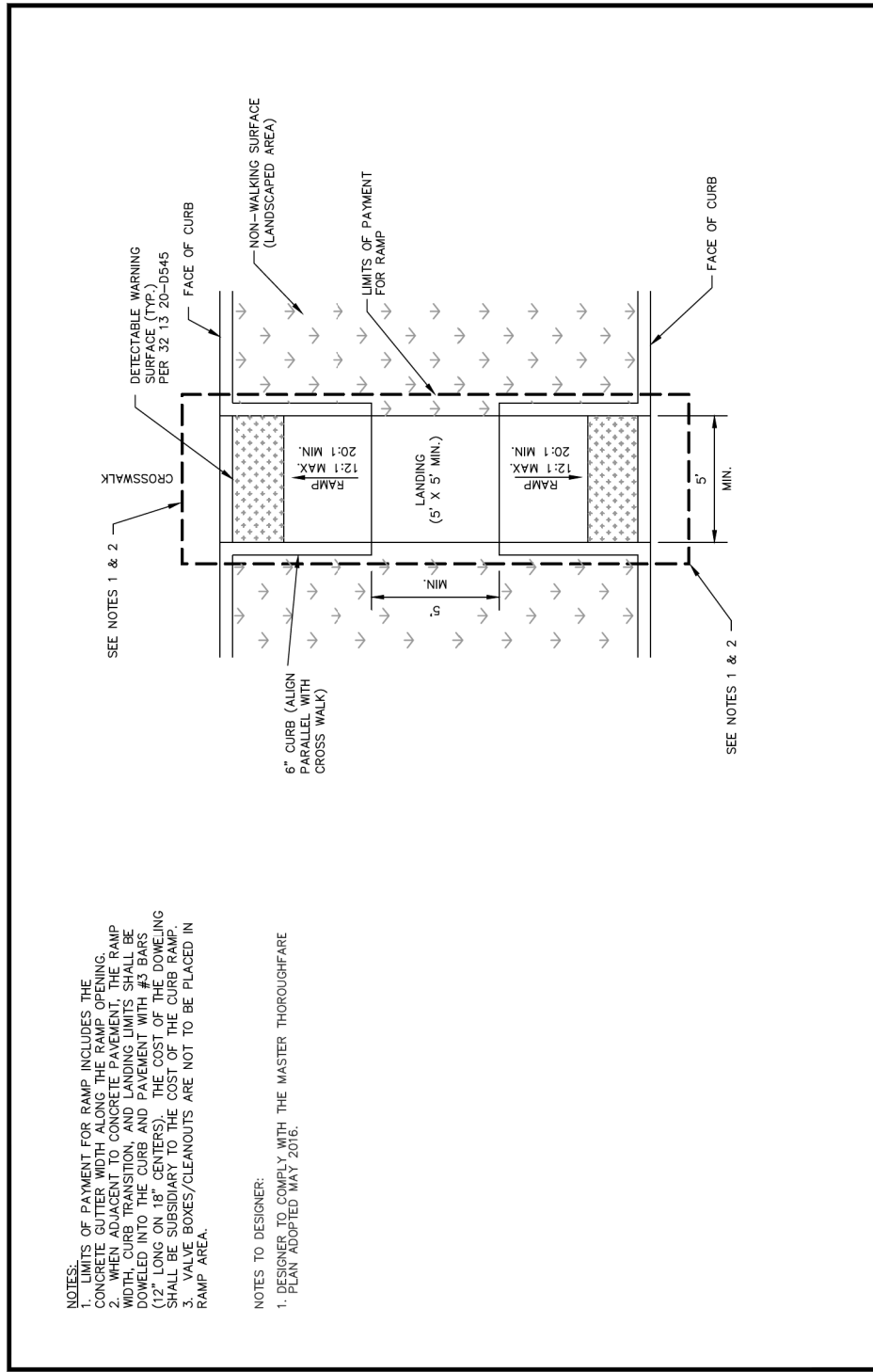
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD

CONCRETE PAVING DETAILS
 (SHEET 7 OF 10)

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



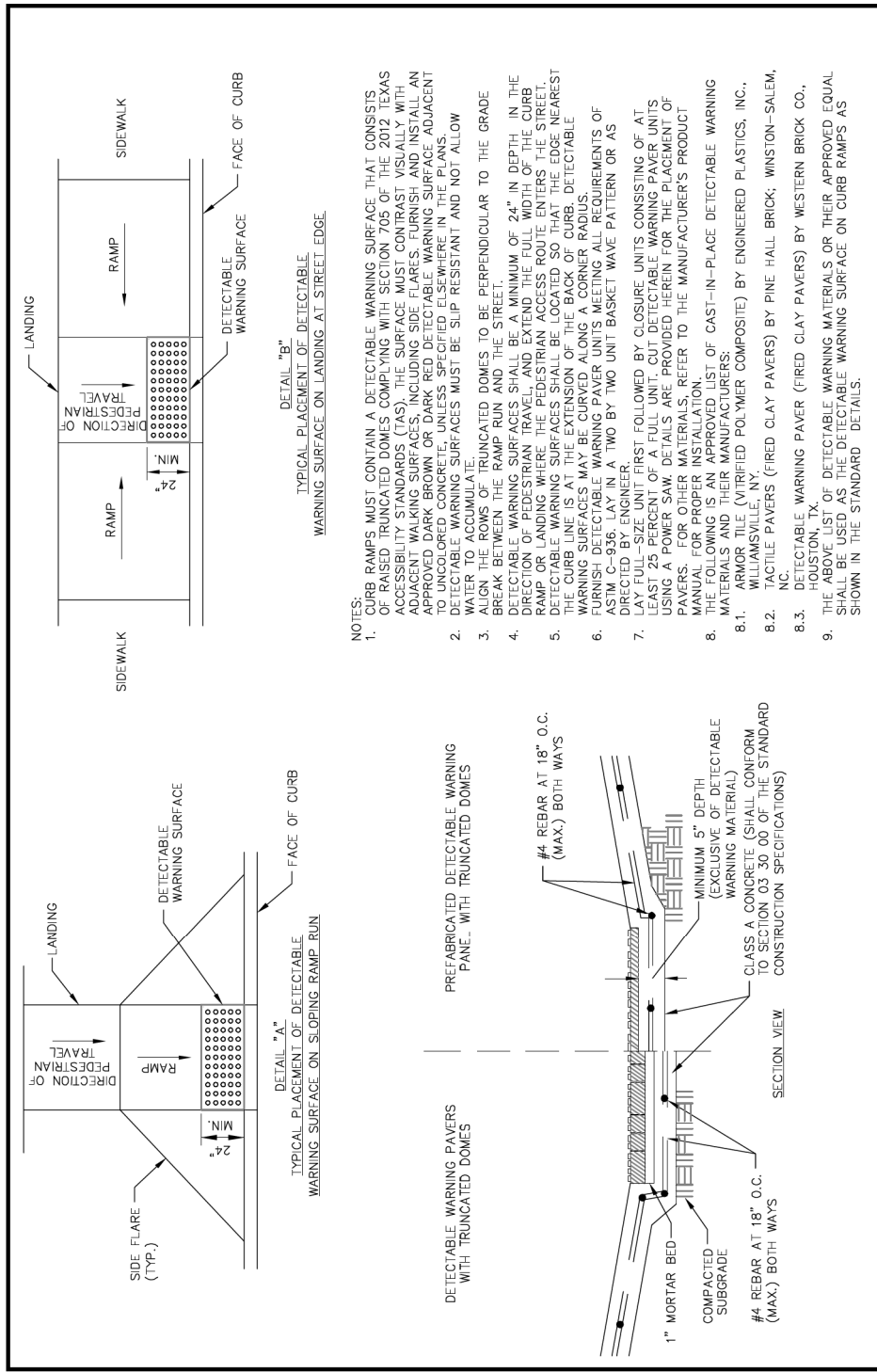
NOTES:
 1. NOTES OF PAYMENT FOR RAMP INCLUDES THE CONCRETE CUTTER WIDTH ALONG THE RAMP OPENING.
 2. WHEN ADJACENT TO CONCRETE PAVEMENT, THE RAMP WIDTH, CURB TRANSITION, AND LANDING LIMITS SHALL BE DOWELED INTO THE CURB AND PAVEMENT WITH #3 BARS (12" LONG ON 18" CENTERS). THE COST OF THE DOWELING SHALL 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



DETECTABLE WARNING PAVERS WITH TRUNCATED DOMES

MINIMUM 5" DEPTH (EXCLUSIVE OF DETECTABLE WARNING MATERIAL)

CLASS A CONCRETE (SHALL CONFORM TO SECTION 03 30 00 OF THE STANDARD CONSTRUCTION SPECIFICATIONS)

#4 REBAR AT 18" O.C. (MAX.) BOTH WAYS

1" MORTAR BED

COMPACTED SUBGRADE

#4 REBAR AT 18" O.C. (MAX.) BOTH WAYS

- NOTES:
- 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 SURFACE. DETECTABLE WARNING SURFACES MUST BE SLIP RESISTANT AND NOT ALLOW WATER TO ACCUMULATE.
 - ALIGN THE ROWS OF TRUNCATED DOMES TO BE PERPENDICULAR TO THE GRADE.
 - BREAK BETWEEN THE RAMP RUN AND THE STREET.
 - 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.
 - DETECTABLE WARNING SURFACES SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB IS A MINIMUM OF 24" FROM THE CURB. DETECTABLE WARNING SURFACES SHALL BE FURNISHED WITH CURB CORNER BORDERS.
 - FURNISH DETECTABLE WARNING PAVEMENT MEETING ALL REQUIREMENTS OF ASTM C-936. LAY IN A TWO BY TWO UNIT BASKET WAVE PATTERN OR AS DIRECTED BY ENGINEER.
 - 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.
 - DETAILS FOR DETECTABLE WARNING SURFACES SHALL BE CAST-IN-PLACE DETECTABLE WARNING MATERIALS INCLUDING THEIR MANUFACTURERS:
 8.1. ARMOR TILE (VIBRIFIED POLYMER COMPOSITE) BY ENGINEERED PLASTICS, INC., WILLIAMSVILLE, NY.
 8.2. TACTILE PAVERS (FIRE CLAY PAVERS) BY PINE HALL BRICK, WINSTON-SALEM, NC.
 8.3. DETECTABLE WARNING PAVERS (FIRE CLAY PAVERS) BY WESTERN BRICK CO., HOUSTON, TX.
 - 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
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TBRELS Engineering Firm #312

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) 392-8296
 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' 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

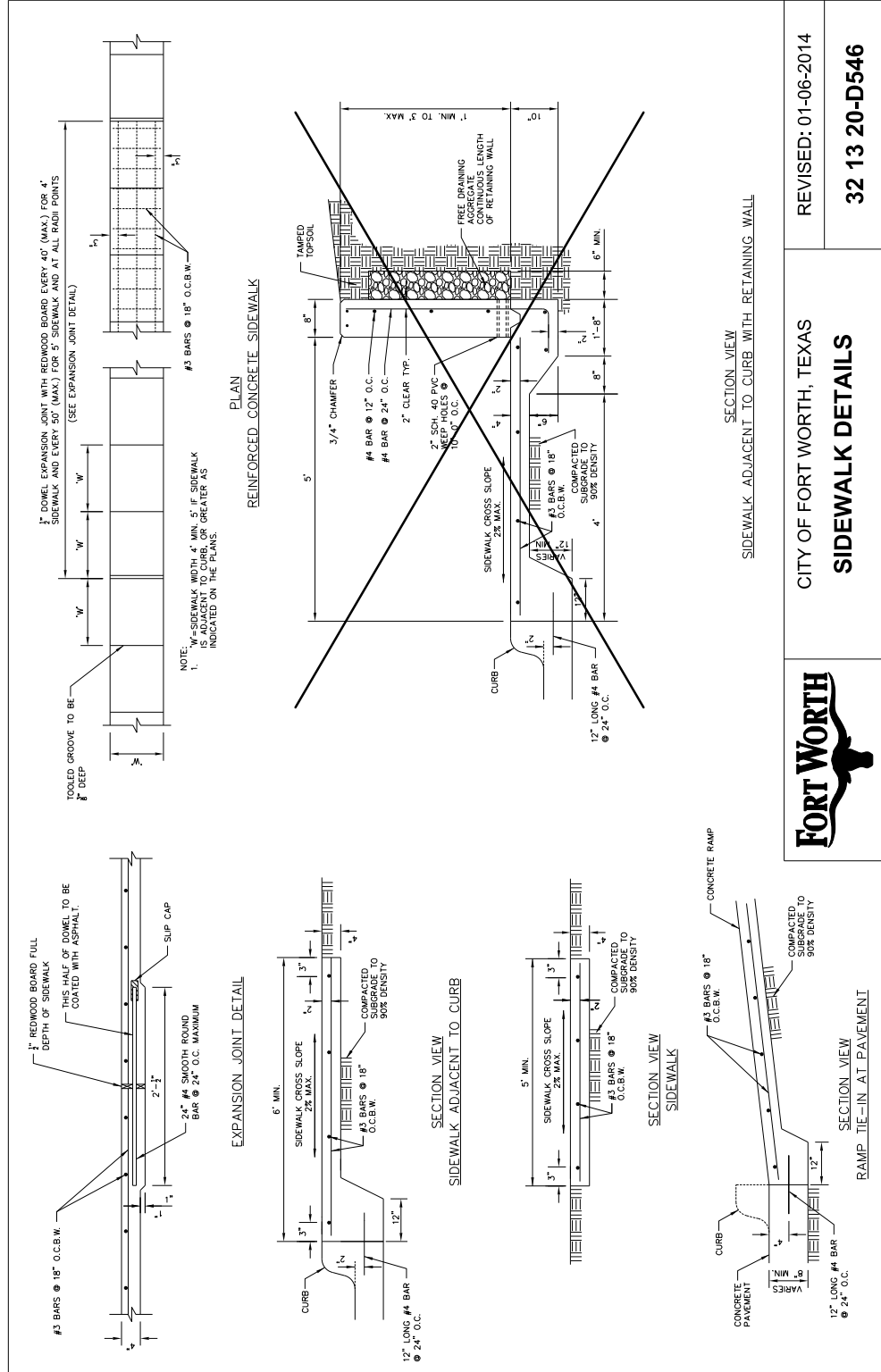
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 MAP NO. XXXX-XXX

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
CONCRETE PAVING DETAILS
 (SHEET 8 OF 10)

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 73 OF 189
DRAWN: PTS			



CITY OF FORT WORTH, TEXAS
SIDEWALK DETAILS

REVISED: 01-06-2014
32 13 20-D546

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TYPELS Engineering Firm #312.

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) 392-8296
 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' 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

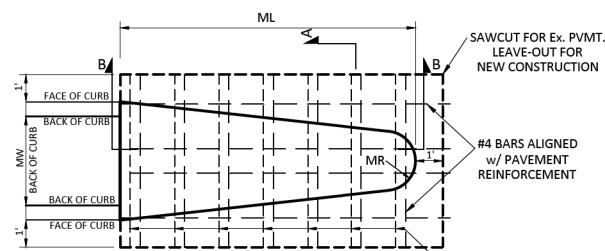
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

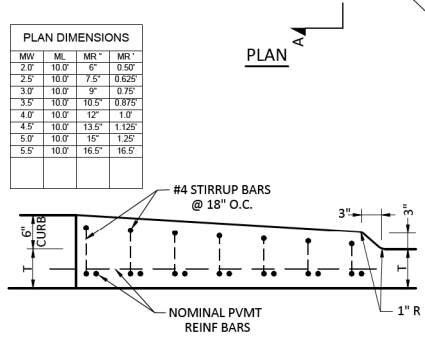
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
CONCRETE PAVING DETAILS
 (SHEET 9 OF 10)

DESIGNED: TMW	SCALE:	DATE:	SHEET
DRAWN: PTS	N.T.S.	06/08/2021	74 OF 189

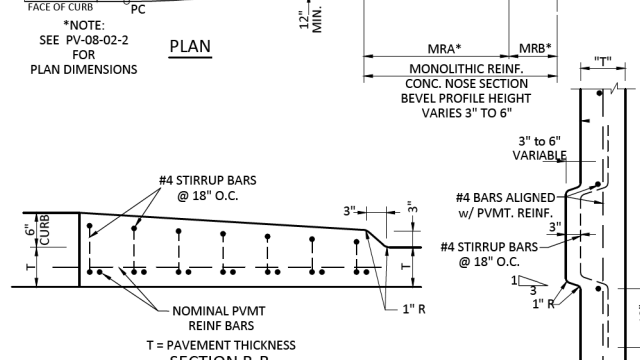
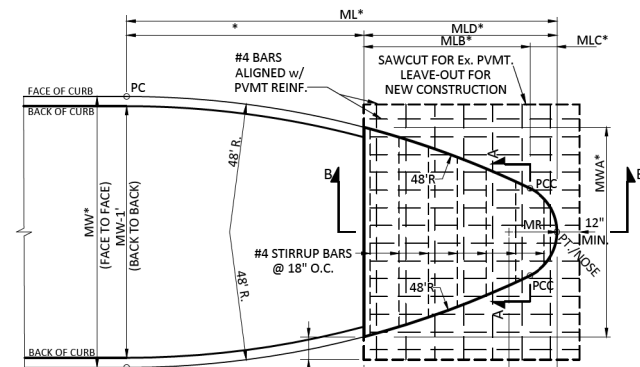
8/5/2021 5:16:21 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C359-DTPV-42487.dgn



MW	ML	MLA	MLB	MLC	MLD	MWA	MR	MRA	MRB
2.0'	10.0'	6'	0.50'						
2.5'	10.0'	7.5'	0.625'						
3.0'	10.0'	9'	0.75'						
3.5'	10.0'	10.5'	0.875'						
4.0'	10.0'	12'	1.0'						
4.5'	10.0'	13.5'	1.125'						
5.0'	10.0'	15'	1.25'						
5.5'	10.0'	16.5'	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		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBELES Engineering Firm #312

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) 392-8296
 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

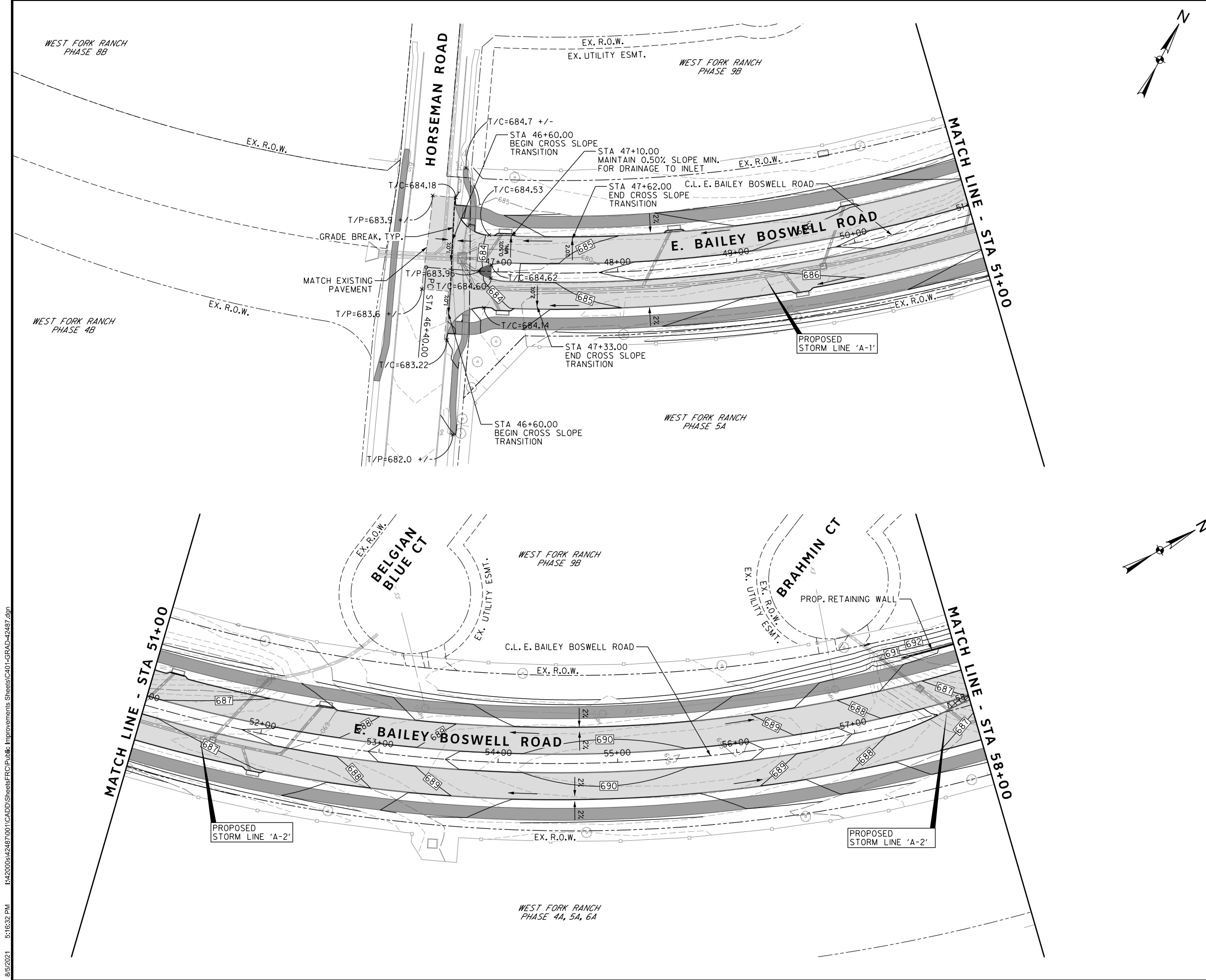
HORIZONTAL & VERTICAL CONTROL

CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT' 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

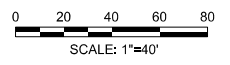
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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
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
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBPELS Engineering Firm #312

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) 392-8296
 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
 BEGIN TO STA 58+00

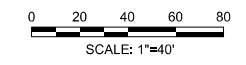
DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 76 OF 189
DRAWN: PTS			

8/5/2021 5:16:32 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C401-GRAD-42487.dgn

8/5/2021 5:16:32 PM I:\2020\842487\001\CADD\Sheets\FRC\Public Improvements Sheets\C402-GRAD-42487.dgn

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBPEIS Engineering Firm #312

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) 392-8296
 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-XXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 MAP NO. XXXX-XXX

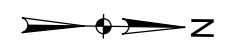
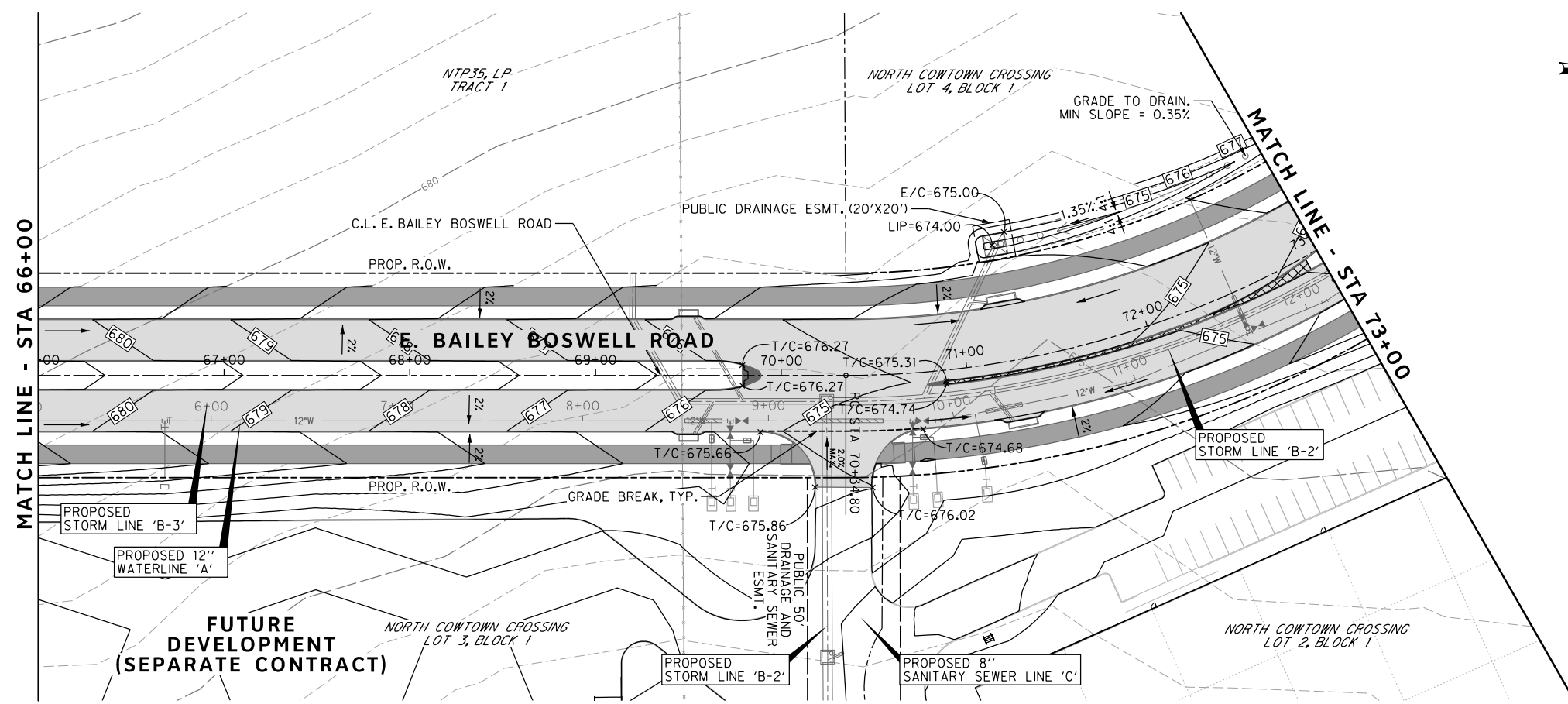
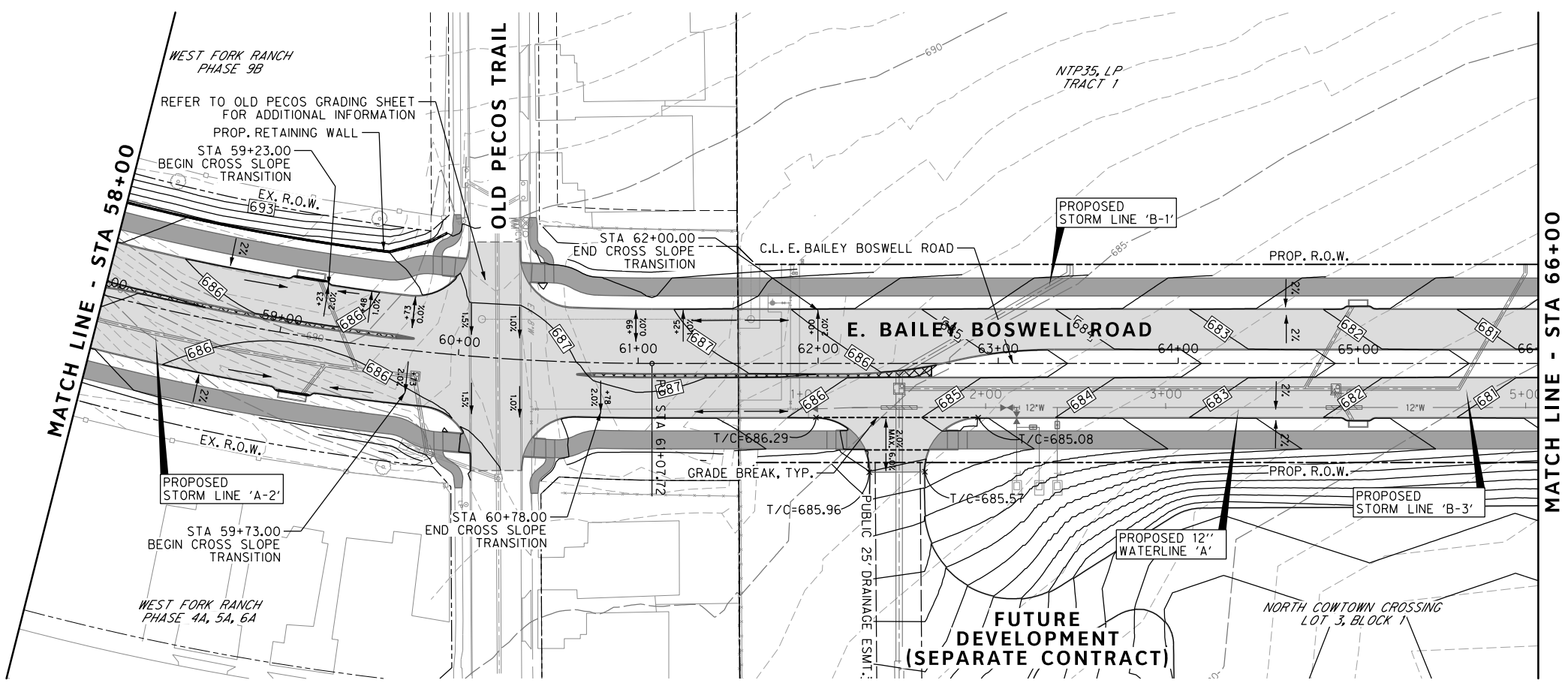
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

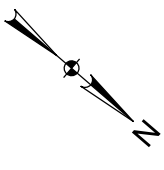
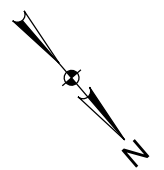
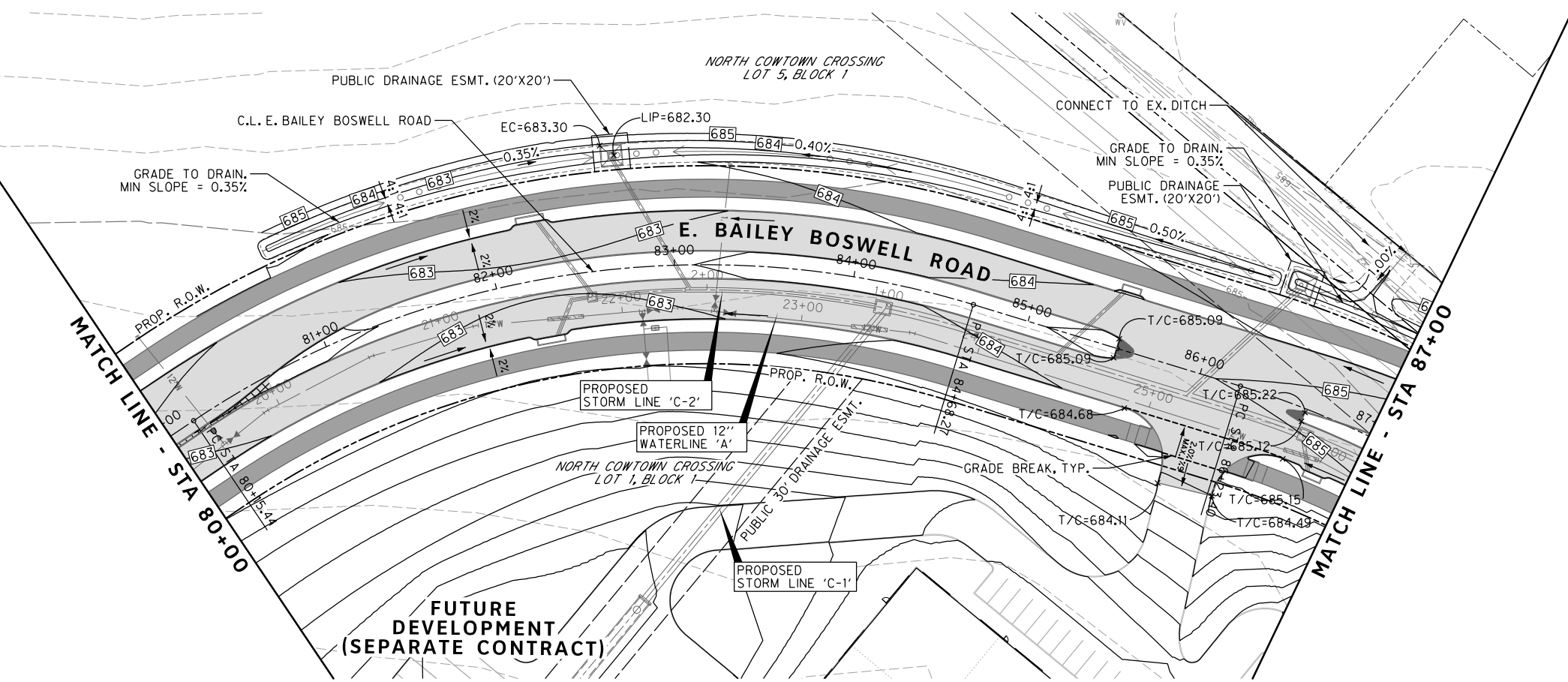
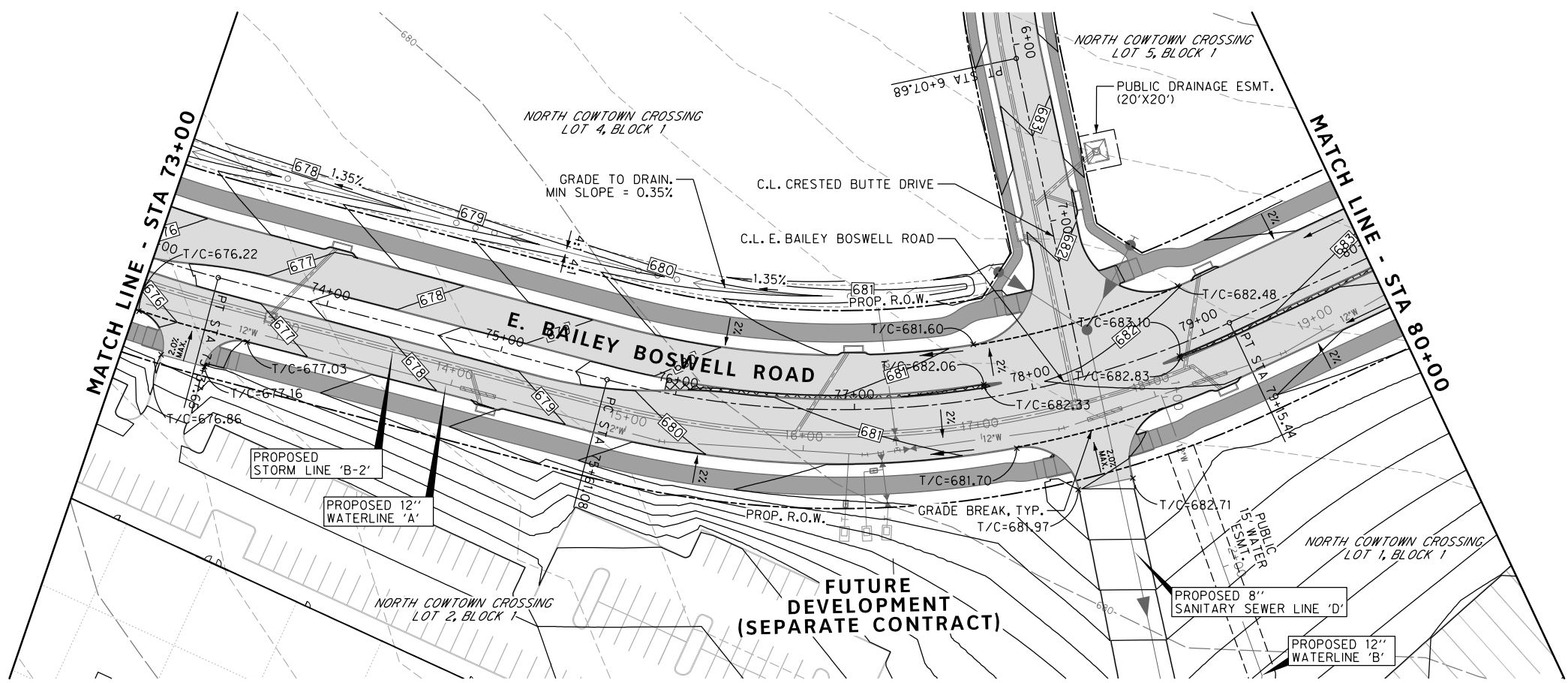
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
GRADING PLAN
 STA 58+00 TO STA 73+00

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

8/5/2021 5:16:32 PM C402-GRAD-42487.dgn

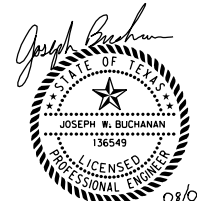
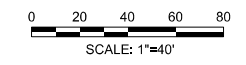


8/5/2021 5:16:33 PM I:\2020\08\24\2487\001\CADD\Sheets\FRC\Public Improvements Sheets\C403-GRAD-42487.dgn



REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBPELS Engineering Firm #312

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) 392-8296
 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

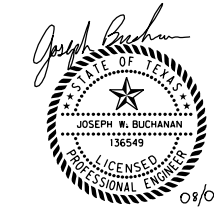
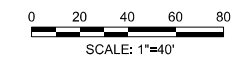
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

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
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034. TBPELS Engineering Firm #312

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) 392-8296
 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

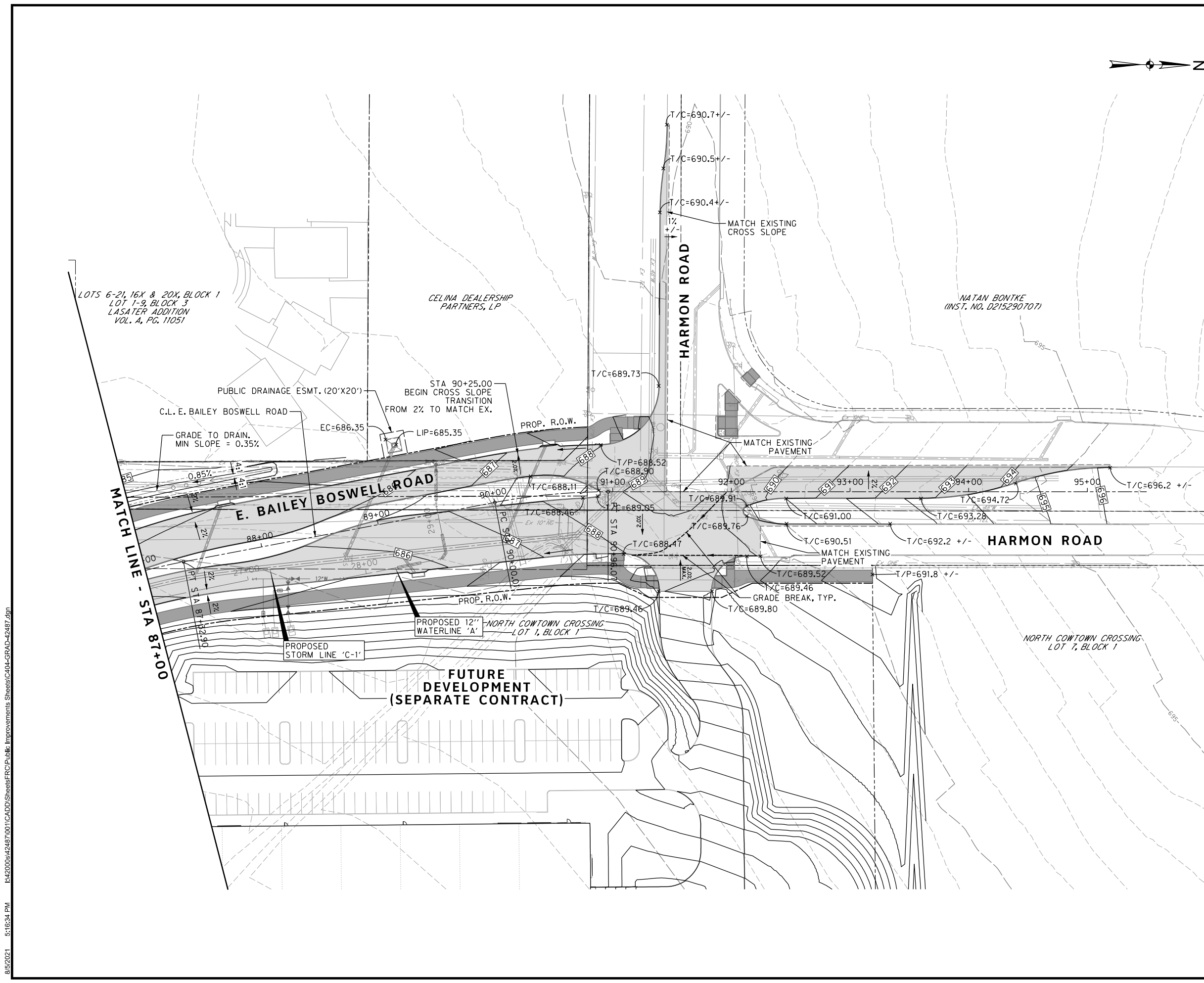
CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

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

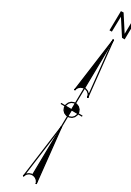
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

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

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

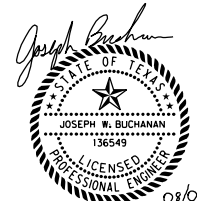
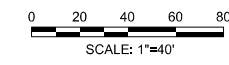


8/5/2021 5:16:34 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C404-GRAD-42487.dgn



REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBELES Engineering Firm #312.

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) 392-8296
 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

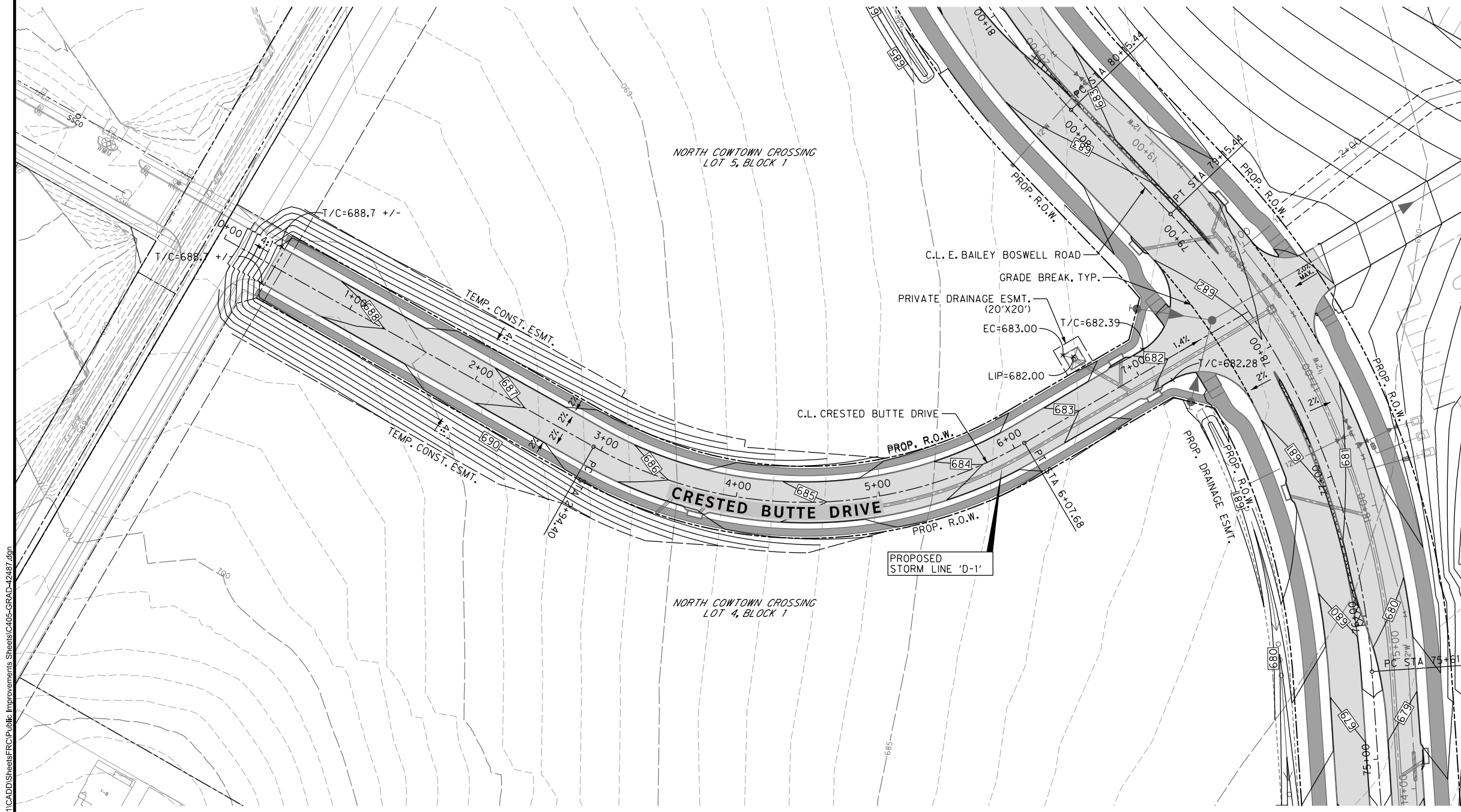
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

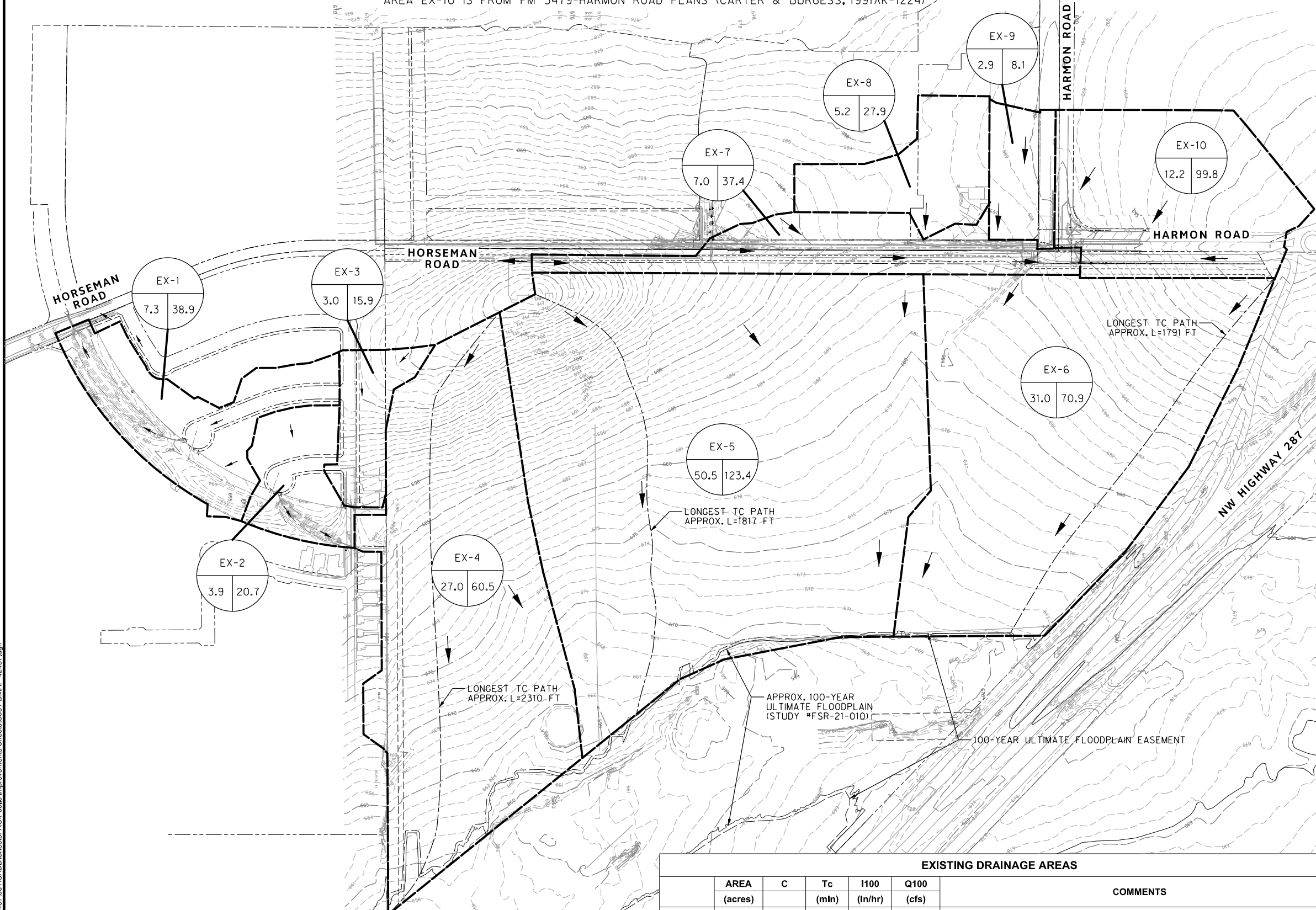
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
GRADING PLAN
 CRESTED BUTTE DRIVE

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

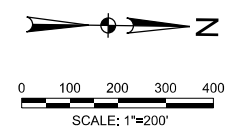


8/5/2021 5:16:35 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C405-GRAD-42487.dgn

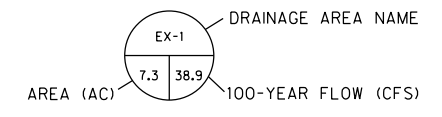
•AREAS EX-7, EX-8 AND EX-9 ARE FROM LASSITER ADDITION PHASE 1-SECTION 5 (CARTER & BURGESS, 2006)(W-1450)
 AREA EX-10 IS FROM FM 3479-HARMON ROAD PLANS (CARTER & BURGESS, 1991)(K-1224)



REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



LEGEND



The seal appearing on this document was authorized by Thamm M. Weaver, P.E. 138236 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TBP/ELS Engineering Firm #312

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) 392-8296
 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 EXISTING DRAINAGE AREA MAP

EXISTING DRAINAGE AREAS						
	AREA (acres)	C	Tc (min)	I100 (ln/hr)	Q100 (cfs)	COMMENTS
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

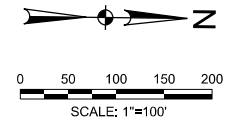
8/5/2021 5:16:37 PM I:\2008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C501-DMAP-42487.dgn

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

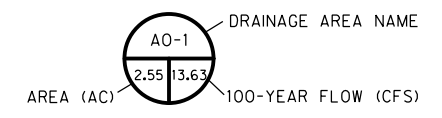
8/5/2021 5:16:40 PM I:\2020\842487\001\CADD\Sheets\FRC\Public Improvements Sheets\C502-DMAP-42487.dgn

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



LEGEND



The seal appearing on this document was authorized by Thamm M. Weaver, P.E. 138236 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034. TBPELS Engineering Firm #312

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) 392-8296
 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

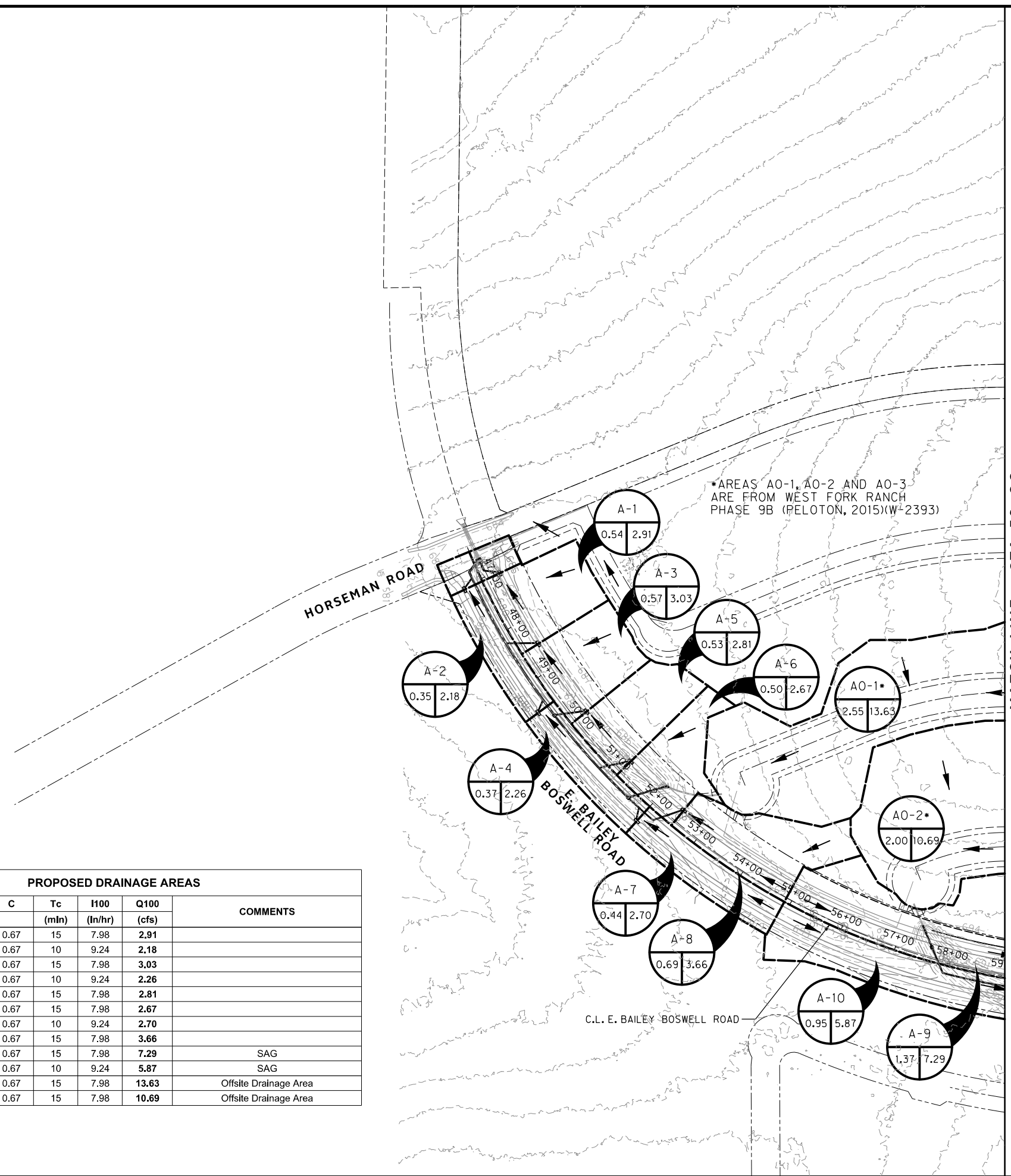
CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO.
 TPW PROJECT # CXXX-XXXXXX-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
PROPOSED DRAINAGE AREA MAP
 BEGIN TO STA 59+00

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

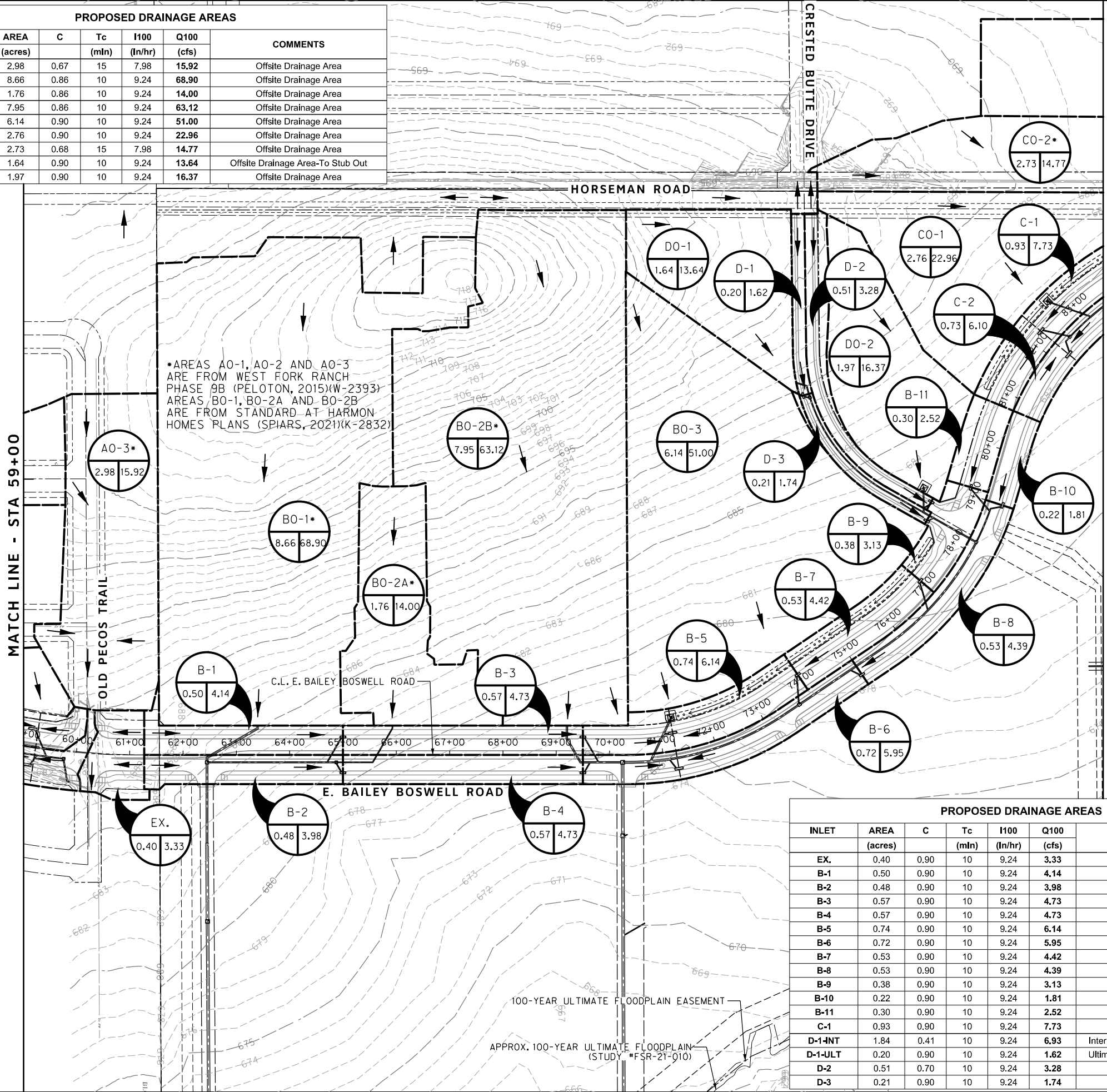


*AREAS AO-1, AO-2 AND AO-3 ARE FROM WEST FORK RANCH PHASE 9B (PELTON, 2015)(W#2393)

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

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		

TBPE FIRM #312
 3803 PARKWOOD BLVD., STE 800
 FORT WORTH, TEXAS 76104-8640
 (214) 217-8994

0 50 100 150 200
 SCALE: 1"=100'

LEGEND

AO-1
AREA (AC) 2.55 13.63

C-1
100-YEAR FLOW (CFS) 0.93 7.73

The seal appearing on this document was authorized by Thamer M. Weaver, P.E. 138296 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Ft. Worth, Texas 76104. TBPELS Engineering Firm #312

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) 392-8296
 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 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 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

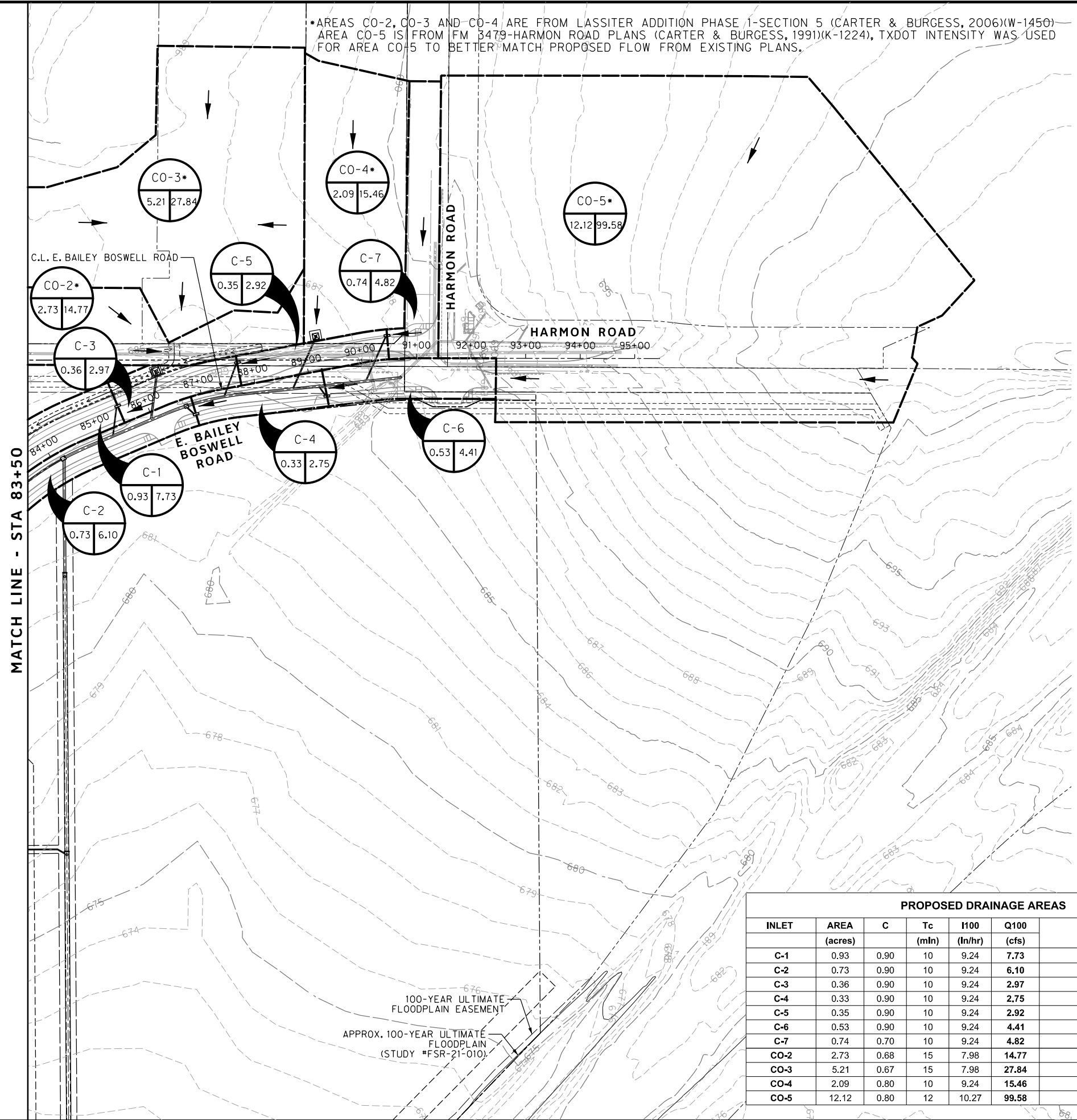
DESIGNED: TMW	SCALE: 1"=100'	DATE: 06/08/2021	SHEET 84 OF 189
DRAWN: PTS			

8/5/2021 5:16:40 PM C503-DMAP-42487.dgn

8/5/2021 5:16:40 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C503-DMAP-42487.dgn

8/5/2021 5:16:41 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C504-DMAP-42487.dgn

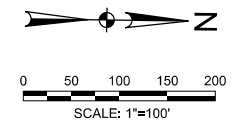
*AREAS CO-2, CO-3 AND CO-4 ARE FROM LASSITER ADDITION PHASE 1-SECTION 5 (CARTER & BURGESS, 2006)(W-1450) — AREA CO-5 IS FROM FM 3479-HARMON ROAD PLANS (CARTER & BURGESS, 1991)(K-1224), TXDOT INTENSITY WAS USED FOR AREA CO-5 TO BETTER MATCH PROPOSED FLOW FROM EXISTING PLANS.



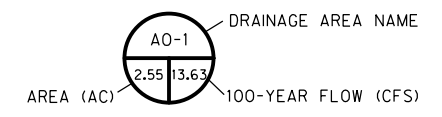
MATCH LINE - STA 83+50

PROPOSED DRAINAGE AREAS						COMMENTS
INLET	AREA (acres)	C	Tc (min)	I100 (ln/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



The seal appearing on this document was authorized by Thamm M. Weaver, P.E. 138236 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034. TBPELS Engineering Firm #312

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) 392-8296
 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

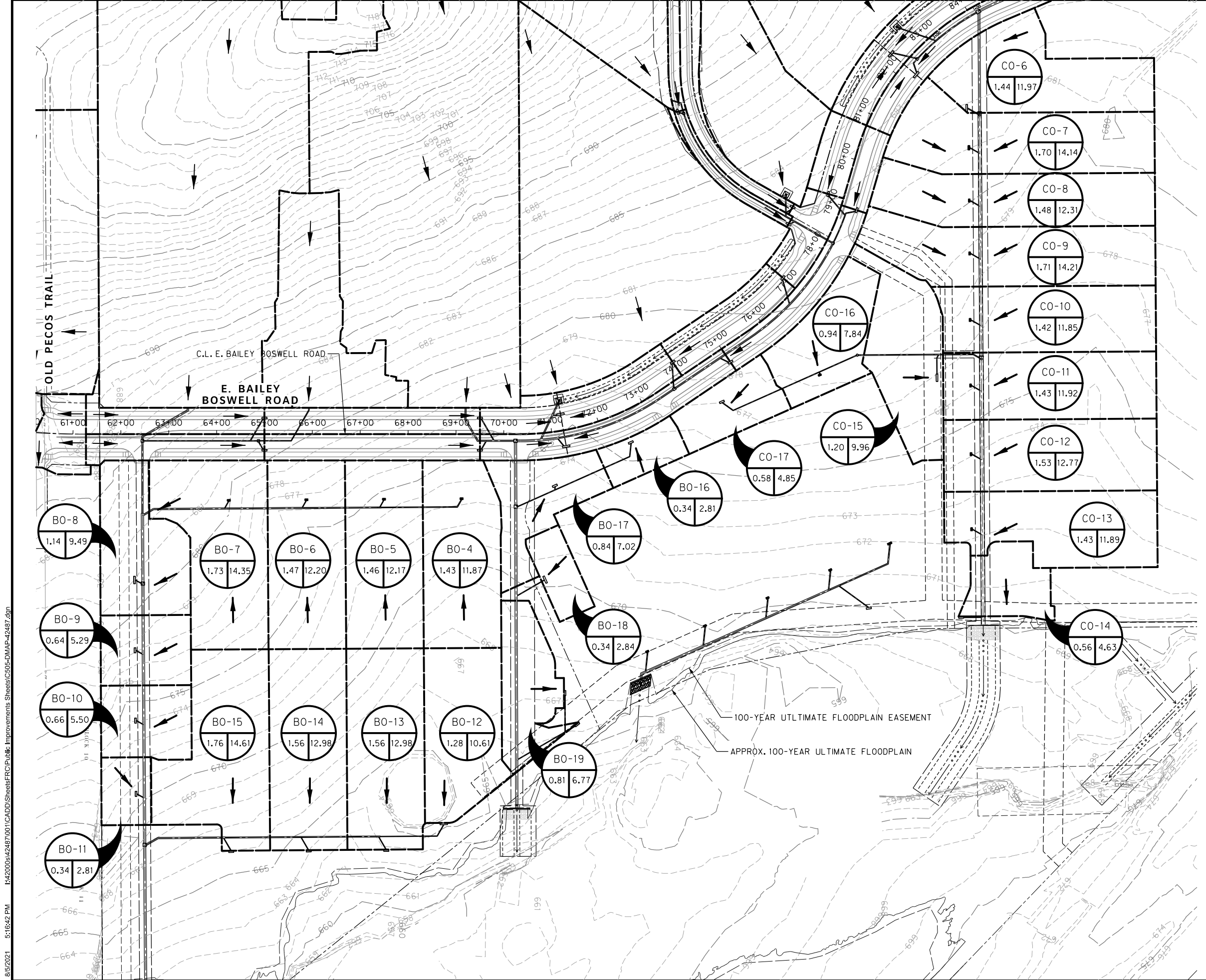
HORIZONTAL & VERTICAL CONTROL

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

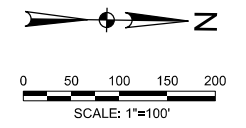
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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
PROPOSED DRAINAGE AREA MAP
 STA 83+50 TO END

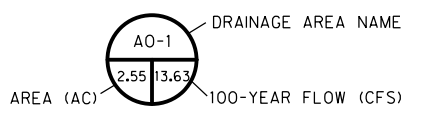
DESIGNED: TMW	SCALE: 1"=100'	DATE: 06/08/2021	SHEET 85 OF 189
DRAWN: PTS			



REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



LEGEND



The seal appearing on this document was authorized by Thamm M. Weaver, P.E. 138236 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TBPELS Engineering Firm #312

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) 392-8296
 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
PROPOSED DRAINAGE AREA MAP
 SITE DRAINAGE

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

8/5/2021 5:16:42 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C505-DMAP-42487.dgn

8/5/2021 5:16:43 PM I:\2008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C510-CALC-42487.dgn

ON GRADE INLET CALCULATIONS

Inlet		Drainage Area				Long Slope 'S'	Cross Slope of Pavement 'Sx'	Depth of Flow 'Yo'	Spread of Flow 'Yt'	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 'Q'	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)	
1	3	4	5	6	7	8	9	11	12				13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
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 Carryover 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 Carryover Flow	% Q100 Captured	Comments
Design	Inlet	Station	Area	Area	Runoff																			
Point	No.	3	No.	(acres)	"c"	(min)	"n"	(ft/ft)	(ft/ft)	(in/hr)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(cfs/ft)	(ft)	(ft)	(cfs)	(cfs)	"q"	(cfs)	(%)	26
A-9		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

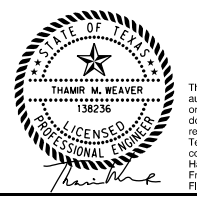
Interim or Ultimate?	Inlet No.	AREA (acres)	C	SHEET FLOW				SHALLOW CONCENTRATED FLOW				Tc (min)	I100 (in/hr)	Q (cfs)	Max Ponding Depth (ft)	Required Perimeter (ft)	Clogging Factor	Actual Required Perimeter (ft)	Inlet Size	Provided Perimeter (ft)		
				Manning's n	Flow Length L (ft)	2-YR, 24-HR Rainfall Depth P (in)	Slope S (ft/ft)	Travel Time Ttravel (min)	Slope S (ft/ft)	Flow Length L (ft)	Surface Type										Flow Velocity V (ft/s)	Travel Time Ttravel (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		
2		
3		



The seal appearing on this document was authorized by Thamer M. Weaver, P.E. 1382

Upstream Location (Design Point) To	Downstream Location From	Pipe Length	Drainage Area						Time of Concentration						Design Conduit		HGL										Headloss Calculations										Invert Elevation		Elevation Difference		Comments
			Area No.	Drainage Area	Total Drainage Area	Runoff Coefficient "C"	Incremental "CA"	Total "CA"	Inlet Time	Travel Time in Conduit			5-Year Intensity	10-Year Intensity	0.5 Runoff	0.10 Runoff	Inlet Bypass	Q Pipe	No. of Conduits	Span (or RCB) DIA (or Pipe) (Inches)	Rise (Only for RCB)	Manning's n	Friction Slope	Friction Losses	Downstream HGL Elevation	Upstream HGL Elevation	Upstream Velocity	Downstream Velocity	Upstream Velocity (V ₂)	Downstream Velocity (V ₂)	Standard Downstream Junction Loss k	Minor Loss Coefficient K _L	K _V /2g	Junction Losses	Design Point HGL Elevation	Downstream Pipe Profile	Upstream Pipe Profile	Upstream Elevation (Top of Curbing)	Elevation Difference Ground-HGL		
										10 min	15 min	12 min																												In/hr	
sta 1	sta 2	ft 3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19a	19b	20	21	22	23	24	25	26	27	28a	28b	29	30	31	32	33	34	35	36				
LINE A-1																																									
7+26.7	6+72.6	54.0	A-8	0.69	0.69	0.67	0.46	0.46	15.00	0.51	10.00	5.74	9.24	2.6	4.2	0.0	4.2	1	21	0.013	0.0007	0.04	684.30	684.34	0.00	1.77	0.00	0.05	1.25	0.10	0.00	684.44	681.64	682.58	687.08	2.64	Inlet A-8				
6+72.6	6+38.7	32.9	A-7	0.69	0.69	0.67	0.46	0.46	10.00	0.32	10.51	5.64	9.09	2.6	4.2	0.0	4.2	1	21	0.013	0.0007	0.02	684.18	684.20	1.77	1.74	0.05	0.05	0.43	0.10	0.00	684.30	681.07	681.64	686.57	2.27	60° Bend				
6+38.7	6+11.8	27.9	A-7	0.44	1.12	0.67	0.29	0.75	10.00	0.22	10.83	5.57	8.00	4.2	6.8	0.0	6.8	1	24	0.013	0.0009	0.00	684.05	684.08	1.74	2.15	0.05	0.07	0.60	0.00	0.10	684.18	680.93	681.07	686.37	2.19	60° Wye Lateral A-7				
6+11.8	5+41.2	76.7	AO-1	2.55	3.67	0.67	1.71	2.46	15.00	0.26	11.04	5.53	8.94	13.6	22.0	0.0	22.0	1	30	0.013	0.0029	0.20	683.56	683.77	2.15	4.48	0.07	0.31	0.35	0.00	0.29	684.05	680.58	680.93	686.22	2.17	60° Wye Lateral AO-1 (MH)				
5+41.2	4+19.8	121.4	A-6	0.56	4.17	0.67	0.33	2.79	15.00	0.40	11.30	5.48	8.97	15.3	24.8	0.0	24.8	1	30	0.013	0.0037	0.44	682.91	683.35	4.48	5.05	0.31	0.40	0.60	0.00	0.21	683.56	679.97	680.58	685.83	2.27	60° Wye Lateral A-6				
4+19.8	3+86.9	32.9	A-5	0.53	4.70	0.67	0.35	3.15	15.00	0.14	11.70	5.40	8.76	17.0	27.6	0.0	27.6	1	36	0.013	0.0017	0.06	682.75	682.61	5.05	3.90	0.40	0.24	0.35	0.00	0.10	682.91	679.80	679.97	685.17	2.26	60° Wye Lateral A-5 (MH)				
3+86.9	2+68.2	118.8	A-4	0.37	5.06	0.67	0.24	3.39	10.00	0.47	11.85	5.38	8.73	18.2	29.6	0.0	29.6	1	36	0.013	0.0020	0.23	682.29	682.62	3.90	4.19	0.24	0.27	0.60	0.00	0.13	682.75	679.21	679.97	684.99	2.24	60° Wye Lateral A-4				
2+68.2	1+93.1	128.0	A-3	0.57	5.63	0.67	0.38	3.77	15.00	0.47	12.32	5.29	8.60	20.0	32.4	0.0	32.4	1	36	0.013	0.0024	0.31	681.92	682.23	4.19	4.59	0.27	0.33	0.60	0.00	0.16	682.39	678.57	679.21	684.34	1.95	60° Wye Lateral A-3				
1+93.1	1+27.8	11.4	A-2	0.35	5.98	0.67	0.24	4.01	10.00	0.04	12.79	5.21	8.49	20.9	34.0	0.0	34.0	1	36	0.013	0.0026	0.03	681.73	681.76	4.59	4.81	0.33	0.36	0.60	0.00	0.16	681.92	678.57	683.64	1.72	60° Wye Lateral A-2					
1+27.8	1+00.0	27.8	A-2	0.58	5.98	0.67	0.40	4.01	10.00	0.10	12.83	5.21	8.48	20.9	34.0	0.0	34.0	1	36	0.013	0.0026	0.07	681.59	681.57	4.81	4.81	0.36	0.36	0.43	0.15	0.00	681.73	678.37	678.57	683.56	1.83	60° Bend				
1+00.0	1+00.0	0.0	A-1	0.54	6.53	0.67	0.36	4.37	15.00	0.00	12.92	5.19	8.45	22.7	37.0	0.0	37.0	2	30	0.013	0.0020	0.00	681.37	681.37	4.81	3.76	0.36	0.22	0.25	0.00	0.13	681.59	678.37	678.37	683.66	2.16	90° Wye Lateral A-1 (MH)				
LINE A-2																																									
4+24.1	3+82.7	41.4	AO-2	2.00	2.00	0.67	1.34	1.34	15.00	0.20	15.00	4.86	7.98	6.5	10.7	0.0	10.7	1	24	0.013	0.0022	0.09	685.26	685.35	0.00	3.40	0.00	0.18	0.00	0.00	0.00	685.35	682.18	685.78	690.28	4.93	Neighborhood drainage				
3+82.7	3+33.9	48.8	A-10	0.96	2.96	0.67	0.64	1.98	10.00	0.06	15.44	4.80	7.88	6.4	10.6	0.0	10.6	1	24	0.013	0.0022	0.30	684.64	684.94	3.38	3.38	0.18	0.18	0.35	0.00	0.11	685.26	681.77	682.18	687.16	1.90	MH				
3+33.9	1+96.9	137.0	A-9	0.96	2.96	0.67	0.64	1.98	10.00	0.06	15.44	4.70	7.74	9.3	15.3	0.0	15.3	1	24	0.013	0.0022	0.30	684.64	684.94	3.38	3.38	0.18	0.18	0.35	0.00	0.10	685.04	680.67	681.77	686.96	1.92	60° Bend				
1+96.9	1+79.1	17.8	A-8	0.96	2.96	0.67	0.64	1.98	10.00	0.06	15.44	4.70	7.74	9.3	15.3	0.0	15.3	1	24	0.013	0.0024	0.08	684.30	684.38	3.36	4.87	0.18	0.37	0.60	0.00	0.26	684.64	680.57	680.67	685.83	1.99	60° Wye Lateral A-10				
1+79.1	1+47.0	32.1	A-8	1.37	4.31	0.67	0.91	2.89	15.00	0.08	16.18	4.69	7.73	13.6	22.3	0.0	22.3	1	24	0.013	0.0098	0.31	683.42	683.73	4.87	7.11	0.37	0.79	0.60	0.00	0.56	684.30	680.28	680.53	685.91	1.81	60° Wye Lateral A-9				
1+47.0	1+04.2	42.9	A-8	0.57	4.31	0.67	0.91	2.89	10.00	0.10	16.26	4.68	7.72	13.5	22.3	0.0	22.3	1	24	0.013	0.0097	0.42	682.42	682.83	7.11	7.10	0.79	0.78	0.25	0.00	0.59	683.42	680.28	680.28	686.16	2.74	90° MH				
1+04.2	1+00.0	4.2	A-8	0.57	4.31	0.67	0.91	2.89	10.00	0.01	16.36	4.67	7.70	13.5	22.2	0.0	22.2	1	24	0.013	0.0097	0.42	682.04	682.08	7.10	7.08	0.78	0.78	0.43	0.33	0.00	682.42	680.04	680.06	686.36	3.94	60° Bend				
LATERAL A-1																																									
1+47.7	1+21.7	26.0	A-1	0.54	0.54	0.67	0.36	0.36	15.00	0.31	10.00	5.74	9.24	2.1	3.4	0.0	3.4	1	21	0.013	0.0005	0.01	681.69	681.70	0.00	1.40	0.00	0.03	1.25	0.10	0.00	681.80	678.86	679.45	683.95	2.15	Inlet A-1				
1+21.7	1+00.0	21.7	A-1	0.54	0.54	0.67	0.36	0.36	10.00	0.26	10.31	5.68	9.15	2.1	3.3	0.0	3.3	1	21	0.013	0.0004	0.01	681.58	681.59	1.40	1.39	0.03	0.03	0.25	0.43	0.10	0.21	681.69	678.37	678.86	683.61	2.12	60° Bend			
LATERAL A-2																																									
1+21.3	1+00.0	21.3	A-2	0.35	0.35	0.67	0.24	0.24	10.00	0.39	10.00	5.74	9.24	1.4	2.2	0.0	2.2	1	21	0.013	0.0002	0.00	682.11	682.11	0.00	0.91	0.00	0.01	1.25	0.10	0.35	682.21	679.19	679.57	683.57	1.36	Inlet A-2				
LATERAL A-3																																									
1+54.0	1+00.0	54.0	A-3	0.57	0.57	0.67	0.38	0.38	15.00	0.62	10.00	5.74	9.24	2.2	3.5	0.0	3.5	1	21	0.013	0.0005	0.03	682.53	682.56	0.00	1.46	0.00	0.03	0.60	1.25	0.10	0.31	682.66	679.84	680.21	684.71	2.05	Inlet A-3			
LATERAL A-4																																									
1+21.3	1+00.0	21.3	A-4	0.37	0.37	0.67	0.24	0.24	10.00	0.38	10.00	5.74	9.24	1.4	2.3	0.0	2.3	1	21	0.013	0.0002	0.00	682.89	682.89	0.00	0.94	0.00	0.01	0.60	1.25	0.10	0.26	682.99	680.43	680.77	685.27	2.28	Inlet A-4			
LATERAL A-5																																									
1+54.0	1+00.0	54.0	A-5	0.53	0.53	0.67	0.35	0.35	15.00	0.67	10.00	5.74	9.24	2.0	3.3	0.0	3.3	1	21	0.013	0.0004	0.02	683.03	683.05	0.00	1.35	0.00	0.03	0.60	1.25	0.10	0.22	683.15	679.97	681.04	685.54	2.39	Inlet A-5			
LATERAL AO-1																																									
1+73.1	1+70.1	3.0	AO-1	2.55	2.55	0.67	1.71	1.71	15.00	0.01	10.00	5.74	9.24	9.8	15.8	0.0	15.8	1	24	0.013	0.0049	0.01	684.39	684.40	0.00	5.03	0.00	0.39	0.00	0.10	684.50	681.97	682.01	686.95	2.45	Drainage From Others					
1+70.1	1+00.0	70.1	A-10	2.55	2.55	0.67	1.71	1.71	10.00	0.23	10.01	5.74	9.24	9.8	15.8	0.0	15.8	1	24	0.013	0.0049	0.34	683.94	684.28	5.03	5.03	0.39	0.39	0.35	0.28	0.11	0.10	684.39	680.93	681.07	686.92	2.43	30° Bend			
LATERAL A-6																																									
1+54.0	1+00.0	54.0	A-6	0.50	0.50	0.67	0.33	0.33	15.00	0.70	10.00	5.74	9.24	1.9	3.1	0.0	3.1	1	21	0.013	0.0004	0.02	683.73	683.75	0.00	1.29	0.00	0.03	0.60	1.25	0.10	0.38	683.85	680.95	681.70	686.20	2.35	Inlet A-6			
LATER																																									

8/5/2021 5:16:48 PM I:\2008\42487\001\CADD\Sheets\FRC-Public Improvements Sheets\C512-CALC-42487.dgn

Main data table with columns: Station, Pipe Length, Drainage Area, Time of Concentration, Design Conduit, HGL, Headloss Calculations, Invert Elevation, and Comments. Rows include various pipe segments like LATERAL B-5, LATERAL B-6, LINE C-1, etc.

REVISIONS

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



The seal appearing on this document was authorized by Thamm M. Weaver, P.E. 139236 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TBPELS Engineering Firm #312

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) 392-8296
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

Table with 3 columns: CONTROL POINT #, SET 'X'-CUT, ELEVATION. Lists control points #105, #109, and #314 with their respective coordinates and elevations.

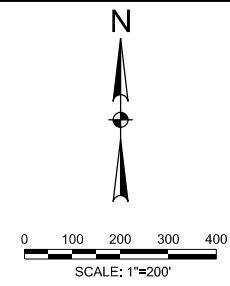
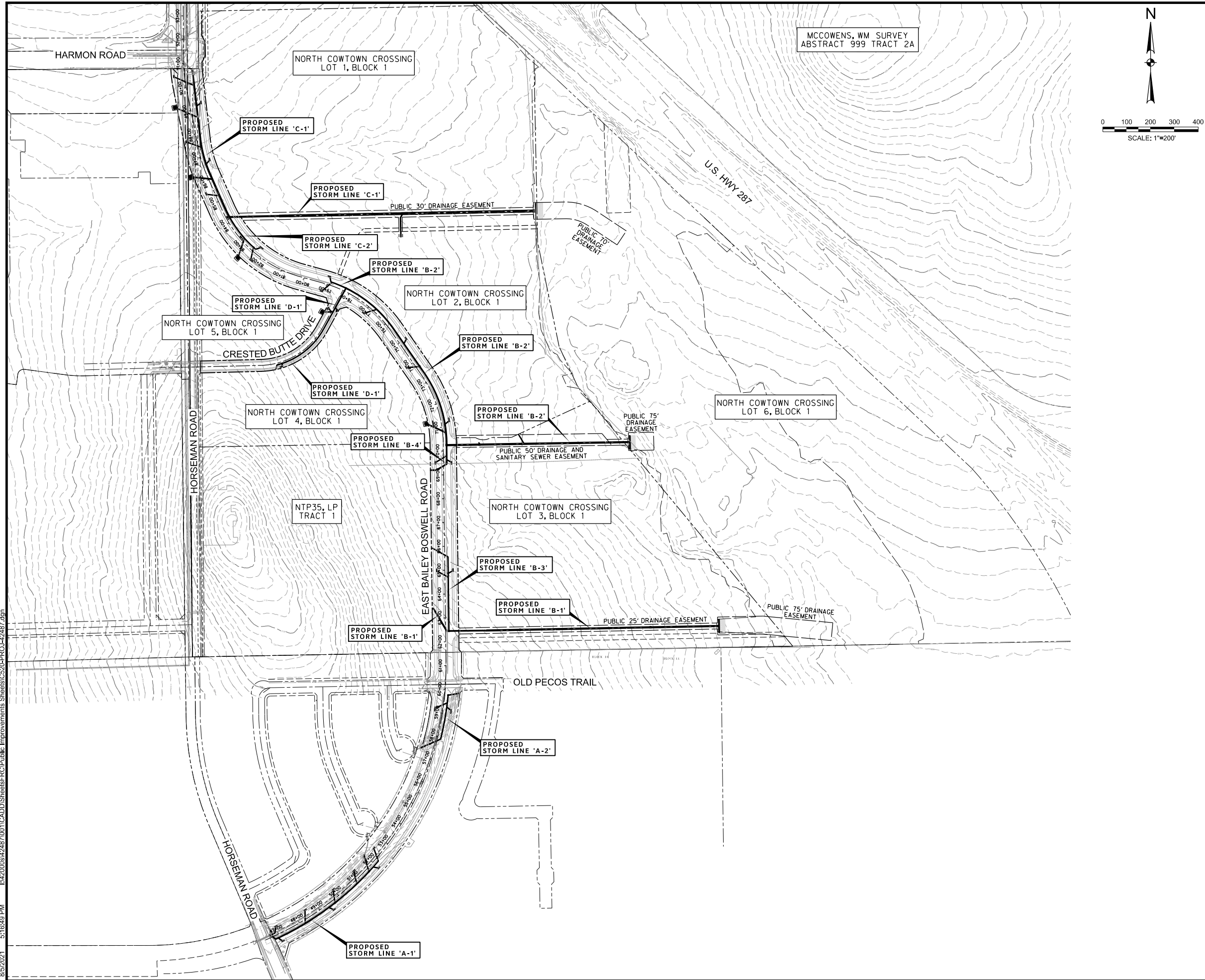
DOE # K-2840
CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
TPW PROJECT # CXXX-XXXXX-XXXXXXXXXXXX
WATER PROJECT # PXXX-XXXXX-XXXXXXXXXXXX
SEWER PROJECT # PXXX-XXXXX-XXXXXXXXXXXX
MAP NO. XXXX-XXX

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
HYDRAULIC CALCULATIONS

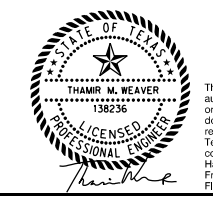
Table with 4 columns: DESIGNED: TMW, SCALE: N.T.S., DATE: 06/08/2021, SHEET: 89 OF 189.



REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



LEGEND



The seal appearing on this document was authorized by Thamer M. Weaver, P.E. 138236 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034. TBPELS Engineering Firm #312

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) 392-8296
 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 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 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

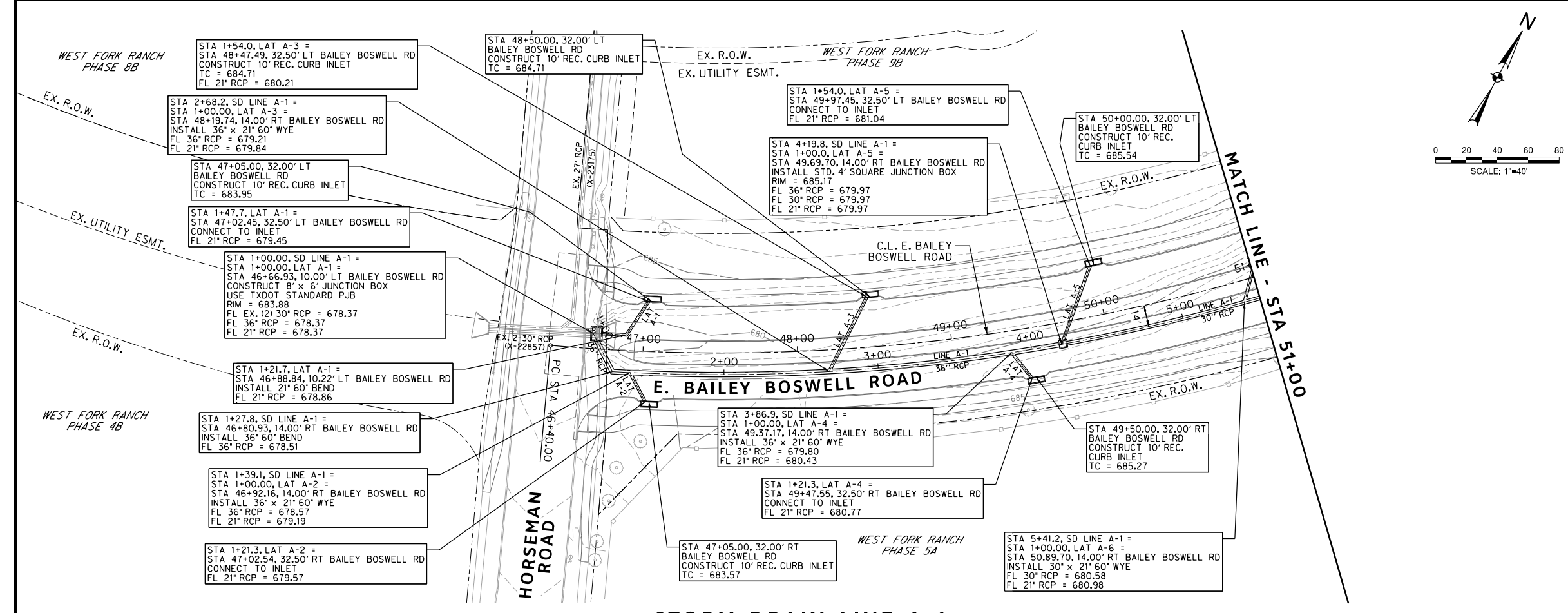
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

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

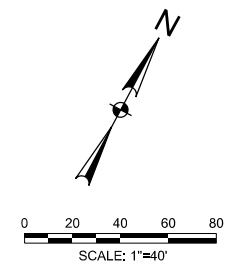
STORM DRAIN

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

8/5/2021 5:16:49 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C520-PROJ-42487.dgn



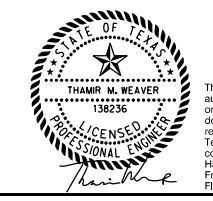
REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



STORM DRAIN LEGEND

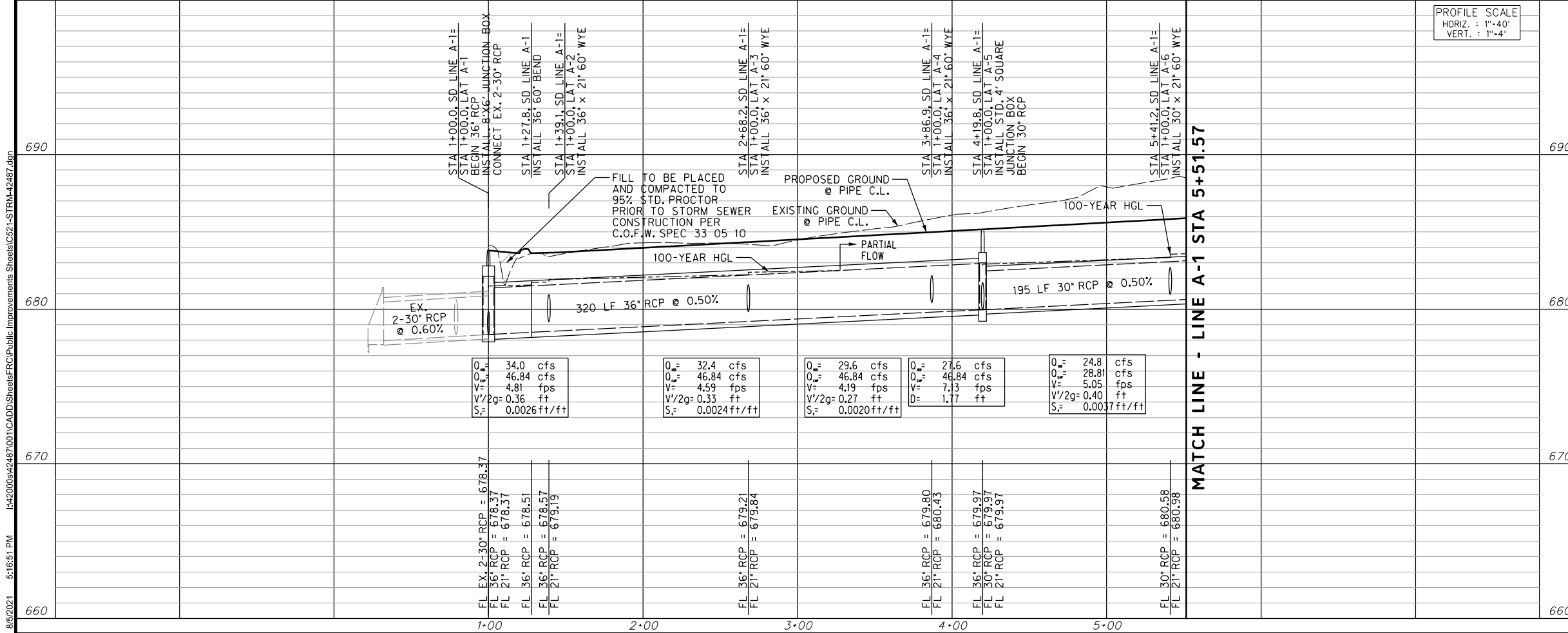
- PROPOSED CURB INLET
- PROPOSED DROP INLET W/ APRON
- PROPOSED STORM DRAIN
- PROPOSED MANHOLE
- PROPOSED RIPRAP

- 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.



The seal appearing on this document was authorized by Thamm M. Weaver, P.E. 138236 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TBP/ELS Engineering Firm #312

STORM DRAIN LINE A-1



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

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) 392-8296
 - 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' 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

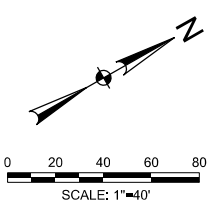
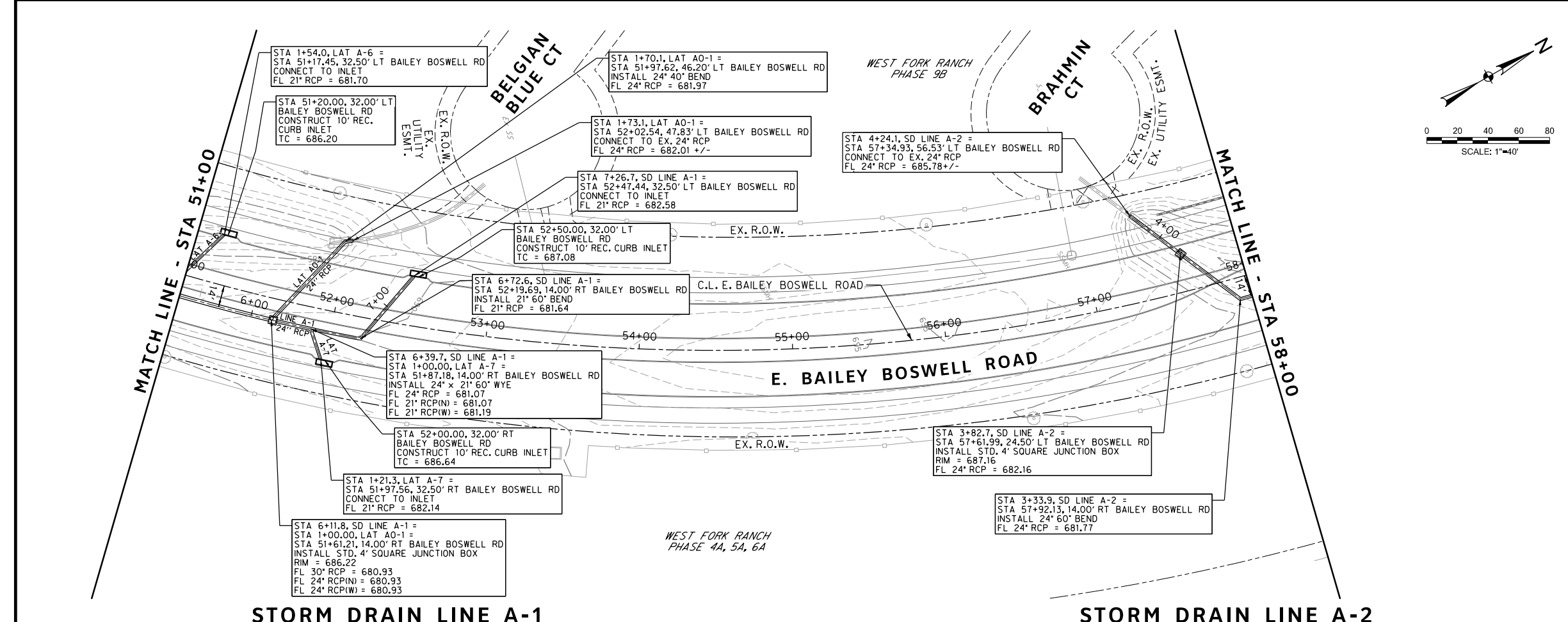
CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
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			

8/5/2021 5:16:51 PM I:\2020\08\24\487\001\CADD\Sheets\FRC\Public Improvements Sheets\C521-STRM-42487.dgn



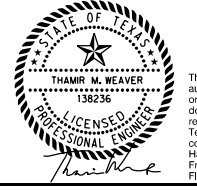
REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



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.

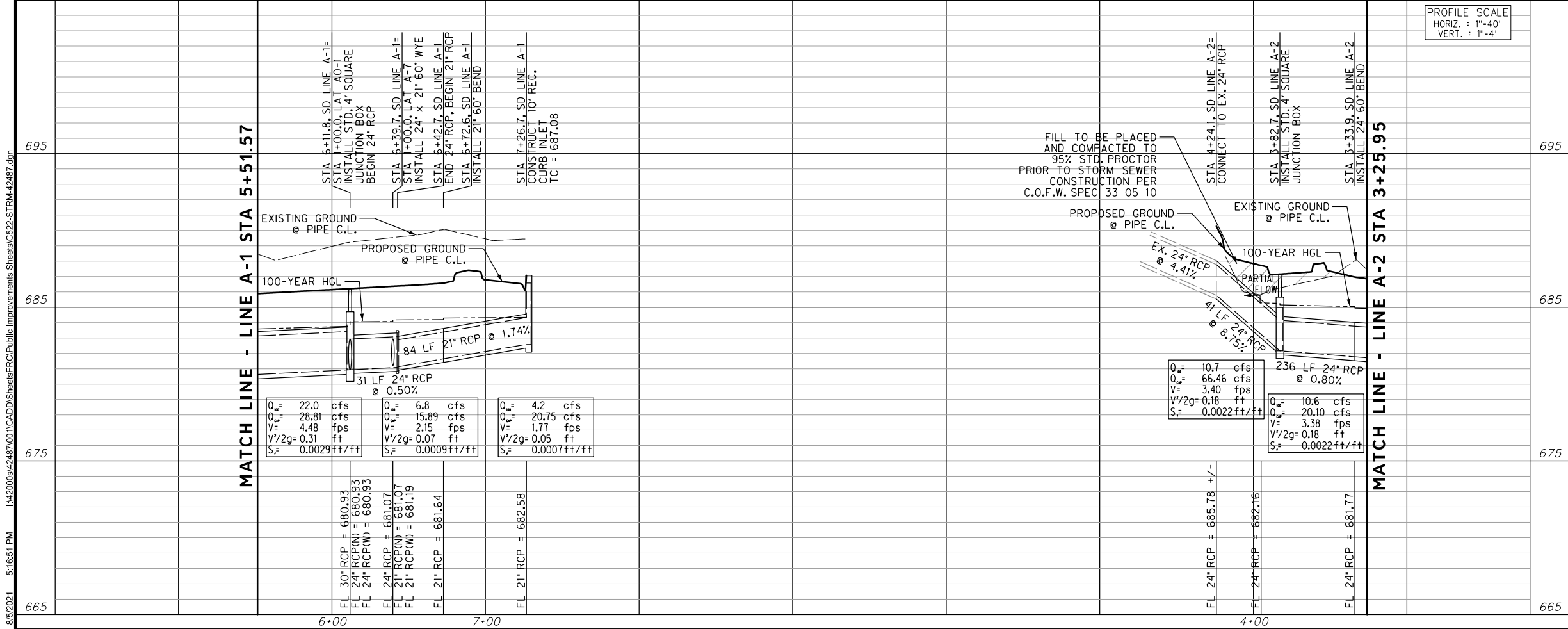


The seal appearing on this document was authorized by Thamm M. Weaver, P.E. 138236 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TBPELS Engineering Firm #312

STORM DRAIN LINE A-1

STORM DRAIN LINE A-2

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



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) 392-8296
 - 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

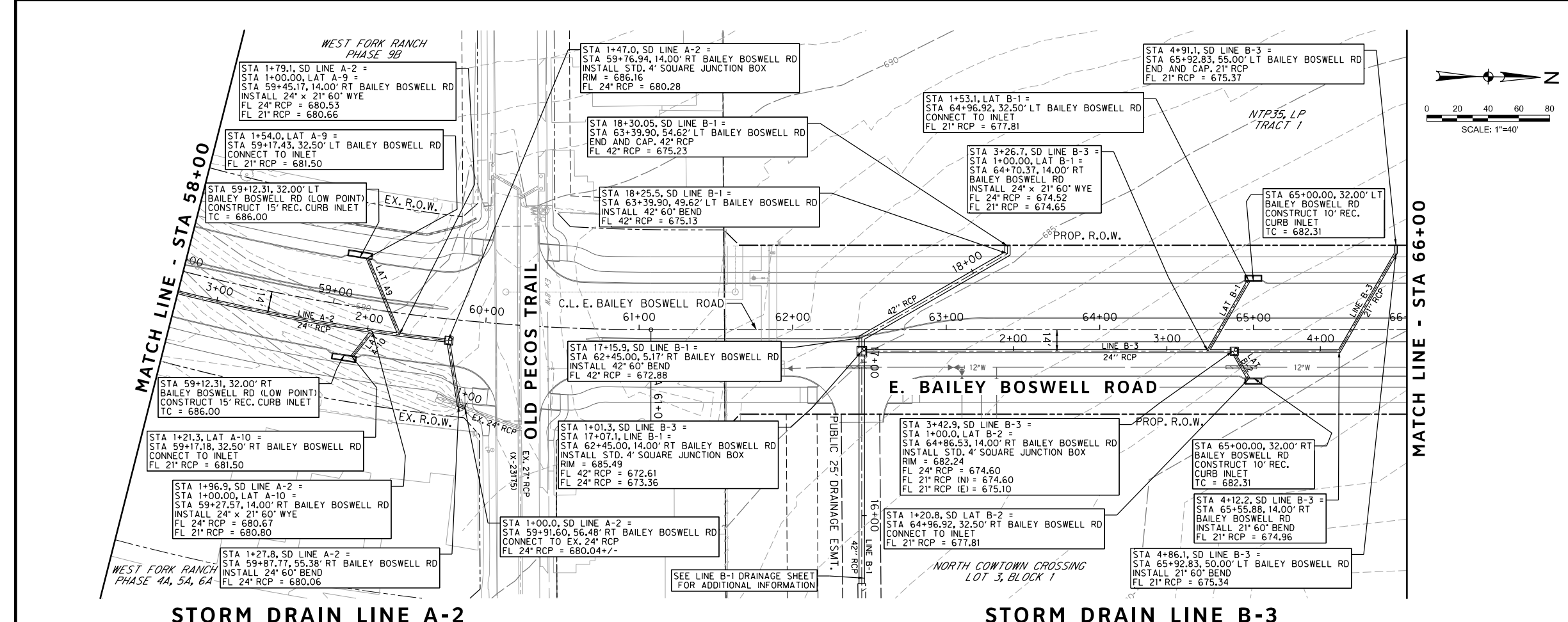
CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

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

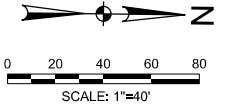
PLAN & PROFILE

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






8/5/2021 5:16:51 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C522-STRM-42487.dgn



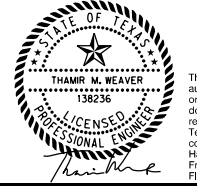
REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



STORM DRAIN LEGEND

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

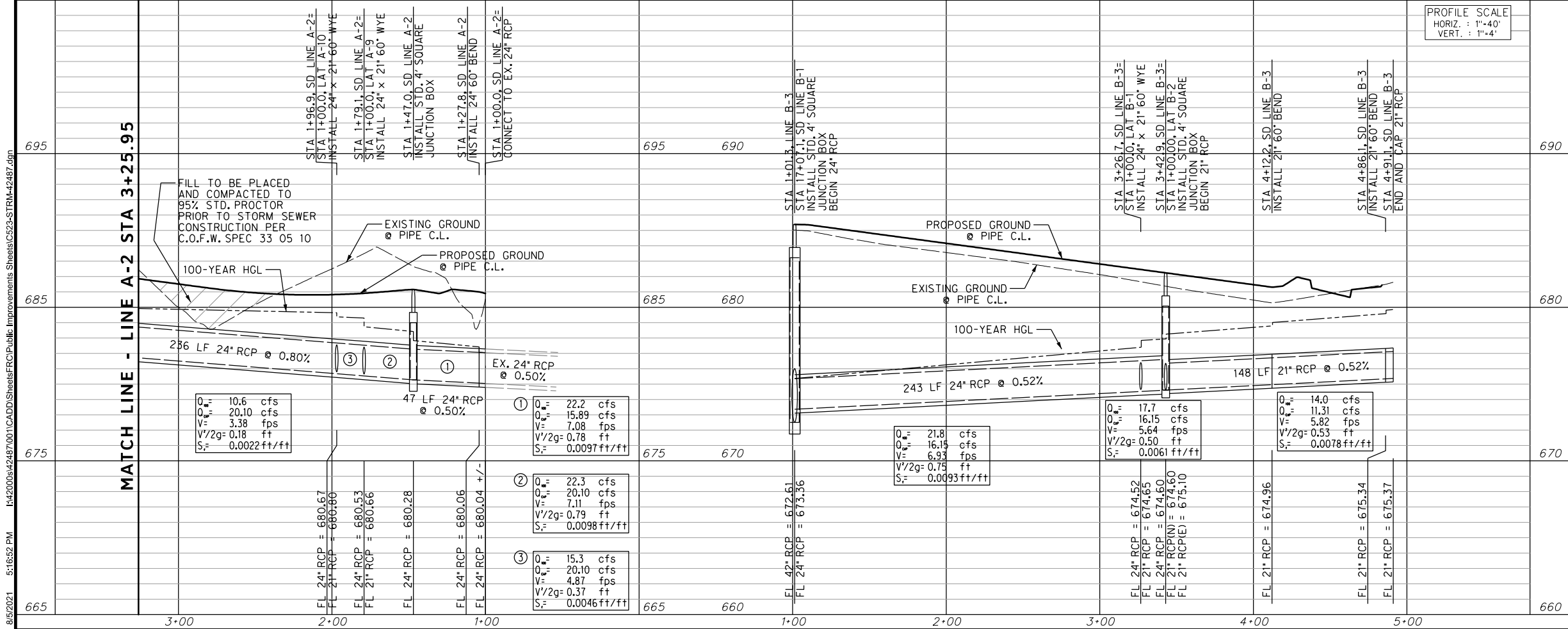
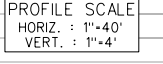
- NOTES:**
- FOR CURB INLETS 15' OR GREATER CONTRACTOR SHALL NOT CONSTRUCT SUPPORT WALL ABOVE LATERAL CONNECTION POINT.
 - ALL LATERAL AND TRUNK LINE WYE CONNECTIONS ARE 60' UNLESS OTHERWISE NOTED.
 - REINFORCED CONCRETE PIPES AND REINFORCED CONCRETE BOX CULVERTS TO BE PRECAST UNLESS OTHERWISE NOTED.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



The seal appearing on this document was authorized by Thamr M. Weaver, P.E. 138296 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034. TBPELS Engineering Firm #312

STORM DRAIN LINE A-2

STORM DRAIN LINE B-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 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) 392-8296
 FORT WORTH T&P (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 1-800-010-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-XXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

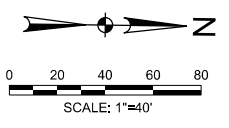
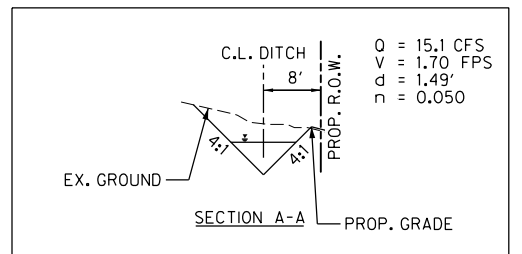
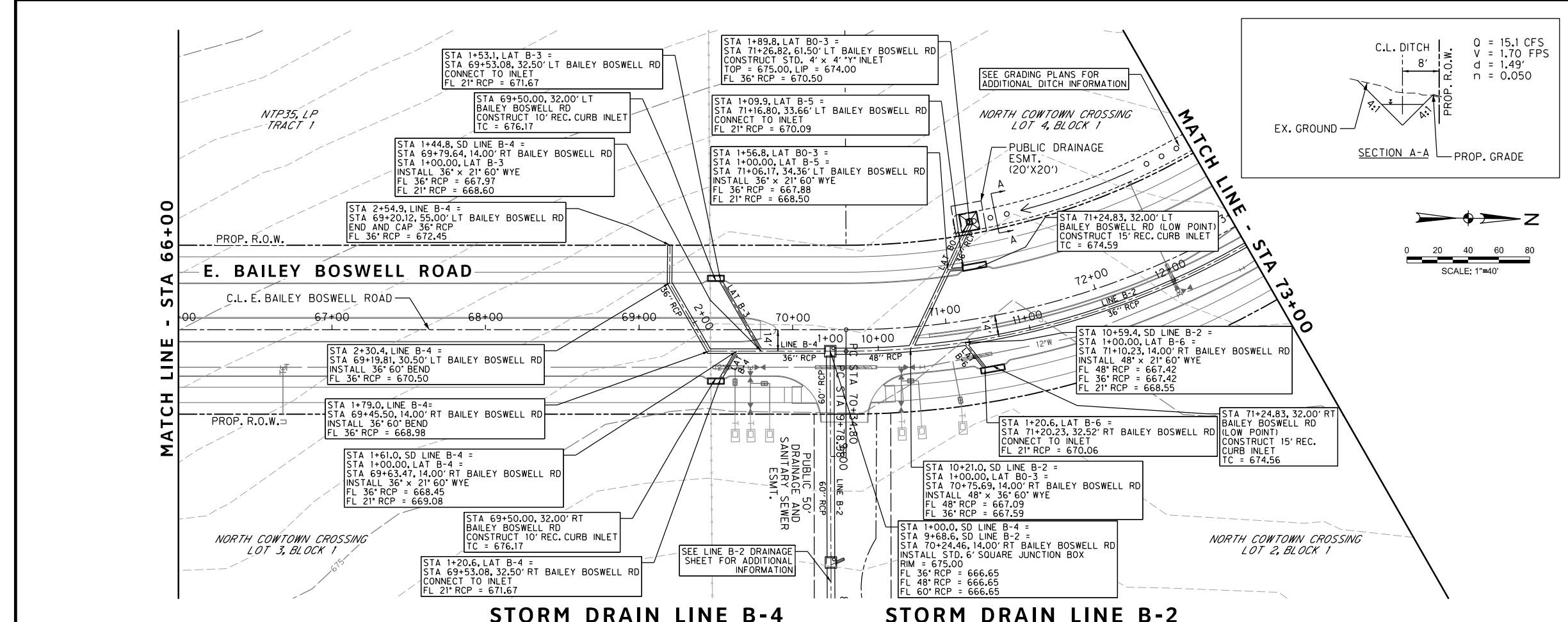
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
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			

8/5/2021 5:16:52 PM I:\420008\42487\001\CADD\Sheets\FRCIP\Public Improvements Sheets\C523-STRM-42487.dgn



REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



STORM DRAIN LEGEND

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

NOTES:

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



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) 392-8296
 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' 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-XXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 MAP NO. XXXX-XXX

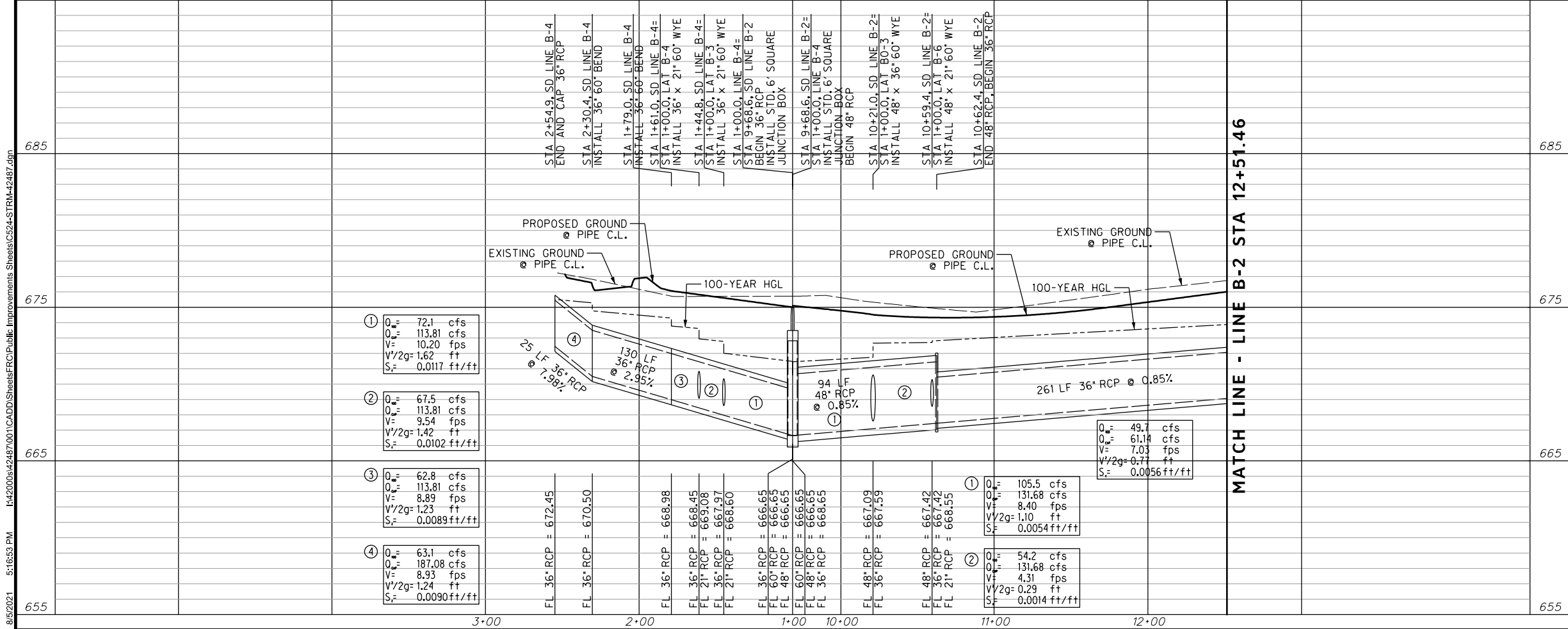
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

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

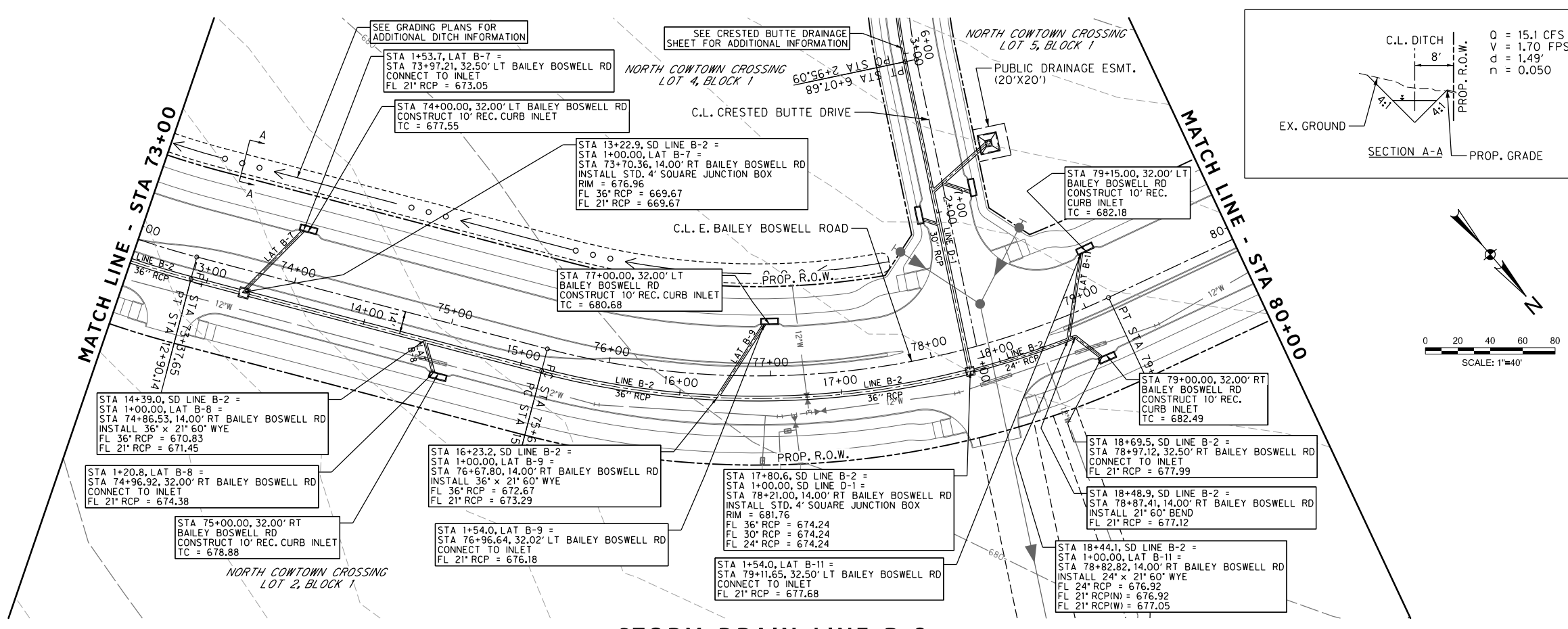
PLAN & PROFILE

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



8/5/2021 5:16:53 PM I:\2020\842487\001\CADD\Sheets\FRC\Public Improvements Sheets\C524-STRM-42487.dgn

8/5/2021 5:16:54 PM I:\2020\842487\001\CADD\Sheets\FRC\Public Improvements Sheets\C525-STRM-42487.dgn



REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



STORM DRAIN LEGEND

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

NOTES:

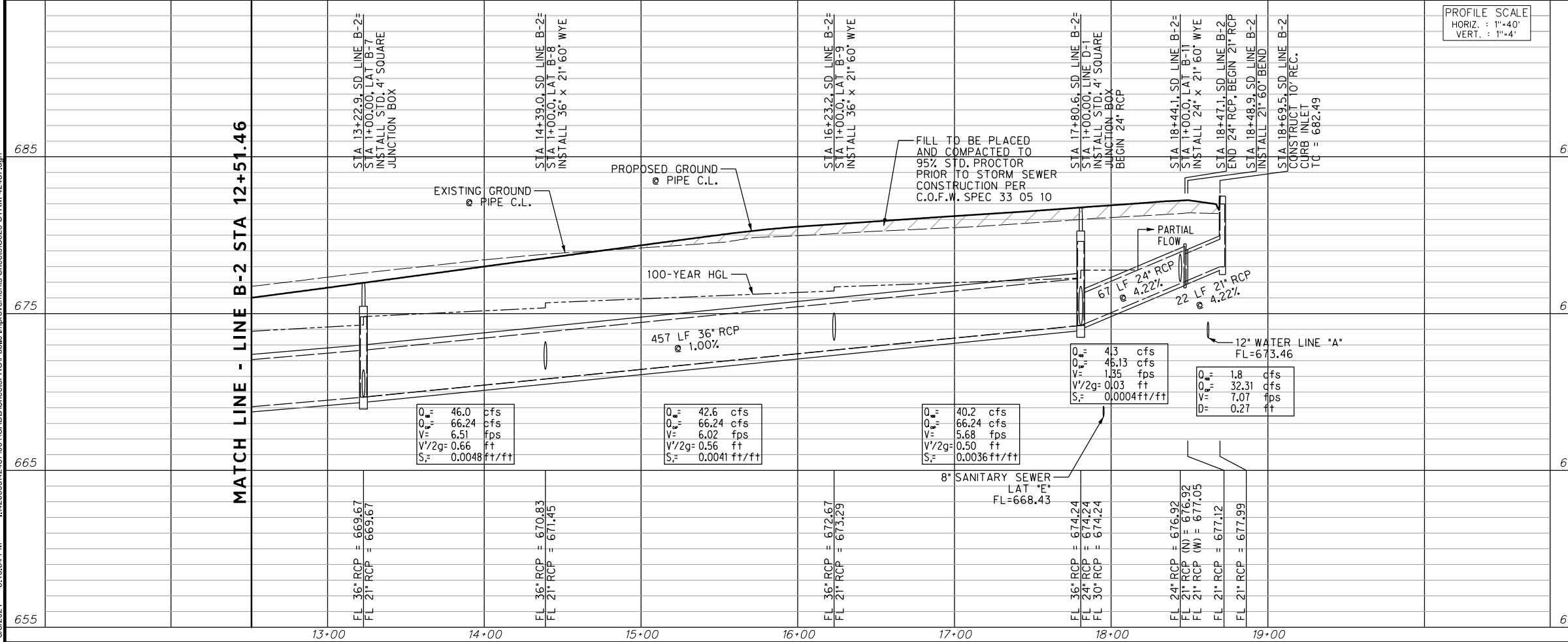
- FOR CURB INLETS 15' OR GREATER CONTRACTOR SHALL NOT CONSTRUCT SUPPORT WALL ABOVE LATERAL CONNECTION POINT.
- ALL LATERAL AND TRUNK LINE WYE CONNECTIONS ARE 60° UNLESS OTHERWISE NOTED.
- REINFORCED CONCRETE PIPES AND REINFORCED CONCRETE BOX CULVERTS TO BE PRECAST UNLESS OTHERWISE NOTED.
- ALL RCP IS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



The seal appearing on this document was authorized by Thamm M. Weaver, P.E. 138236 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034. TBP/ELS Engineering Firm #312

STORM DRAIN LINE B-2

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



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) 392-8296
 - 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' 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

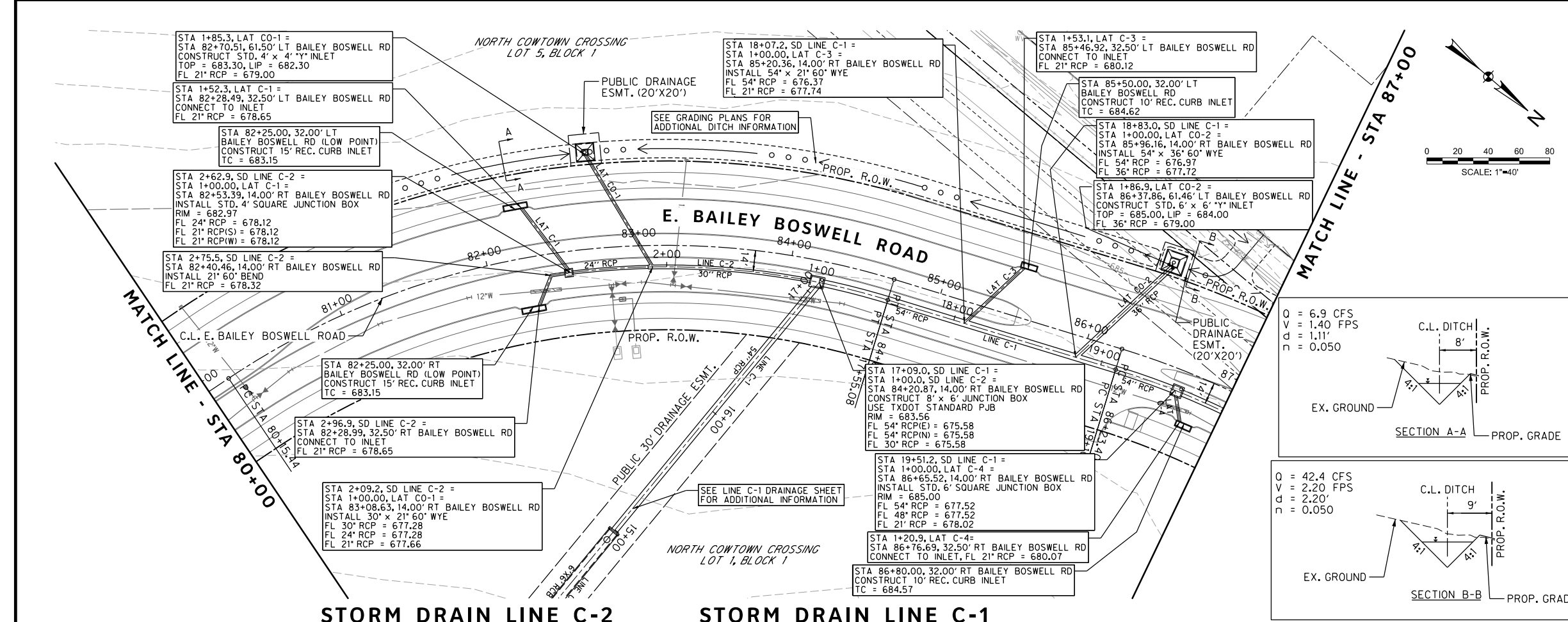
DOE # K-2840
CITY PROJECT # 103320 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX MAPSCO NO. 119E AND 119F
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
MAP NO. XXXX-XXX

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
STA 73+00 TO STA 80+00

PLAN & PROFILE

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



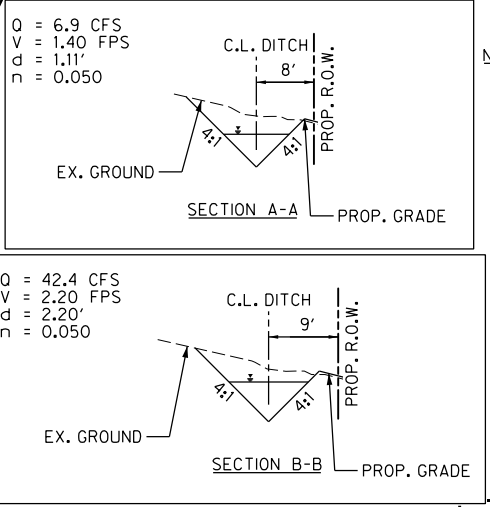
REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



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.



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) 392-8296
 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

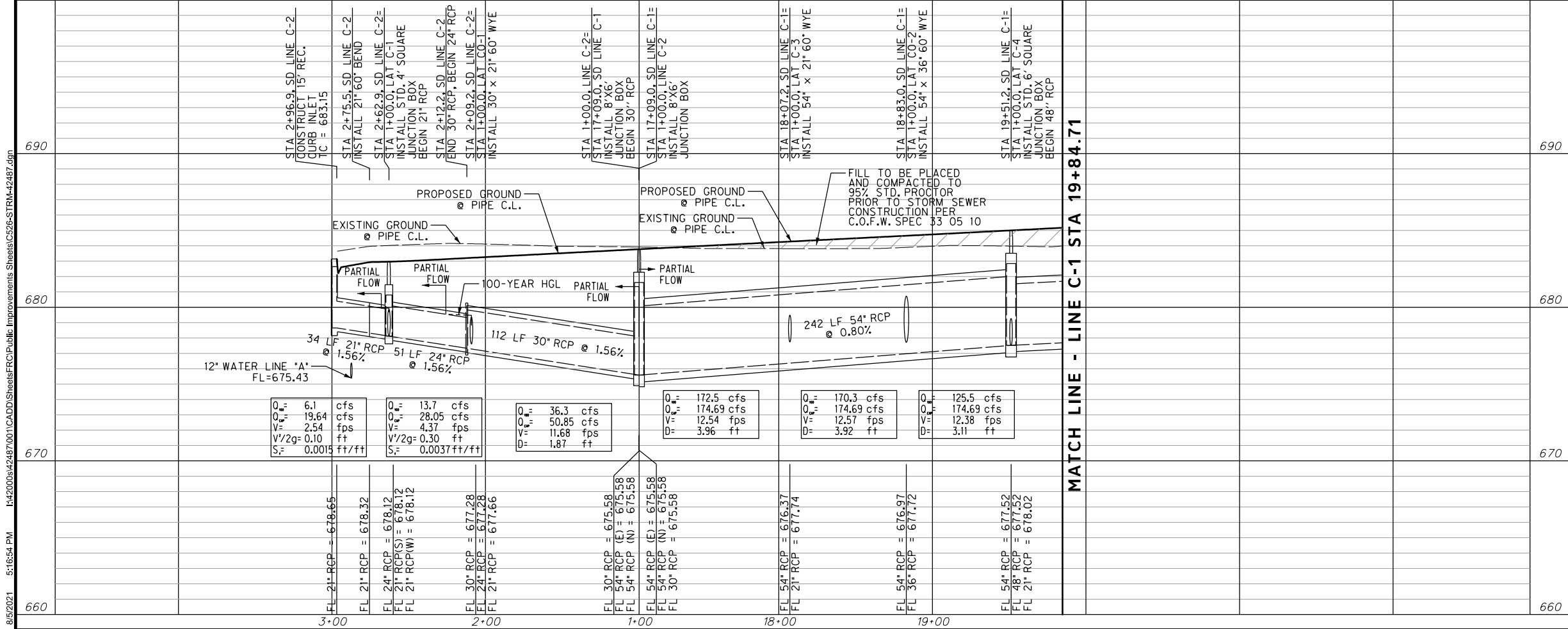
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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 PLAN
 STA 80+00 TO STA 87+00**

PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 96 OF 189
DRAWN: PTS			



8/5/2021 5:16:54 PM I:\2020\842487\001\CADD\Sheets\FRC\Public Improvements Sheets\C526-STRM-42487.dgn

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



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.



The seal appearing on this document was authorized by Thamm M. Weaver, P.E. 138296 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034. TBEELS Engineering Firm #312

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) 392-8296
 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 1-800-010-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

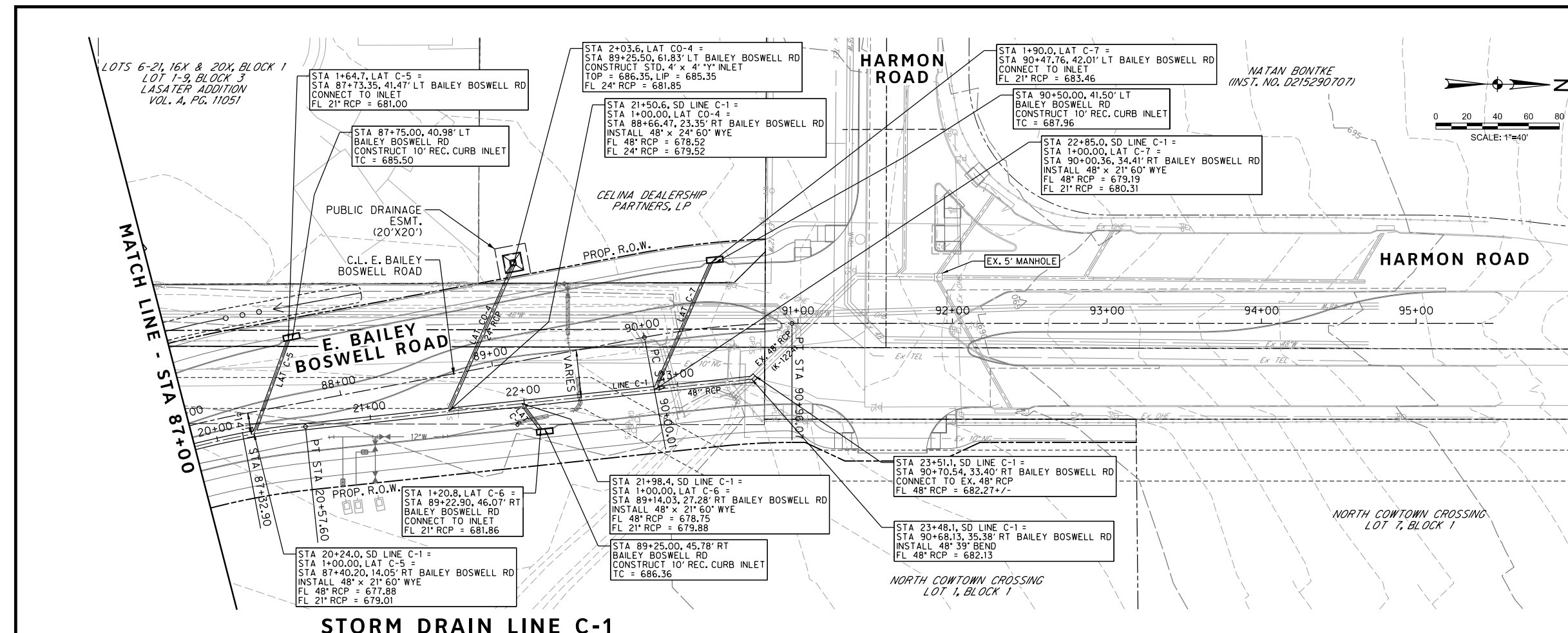
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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

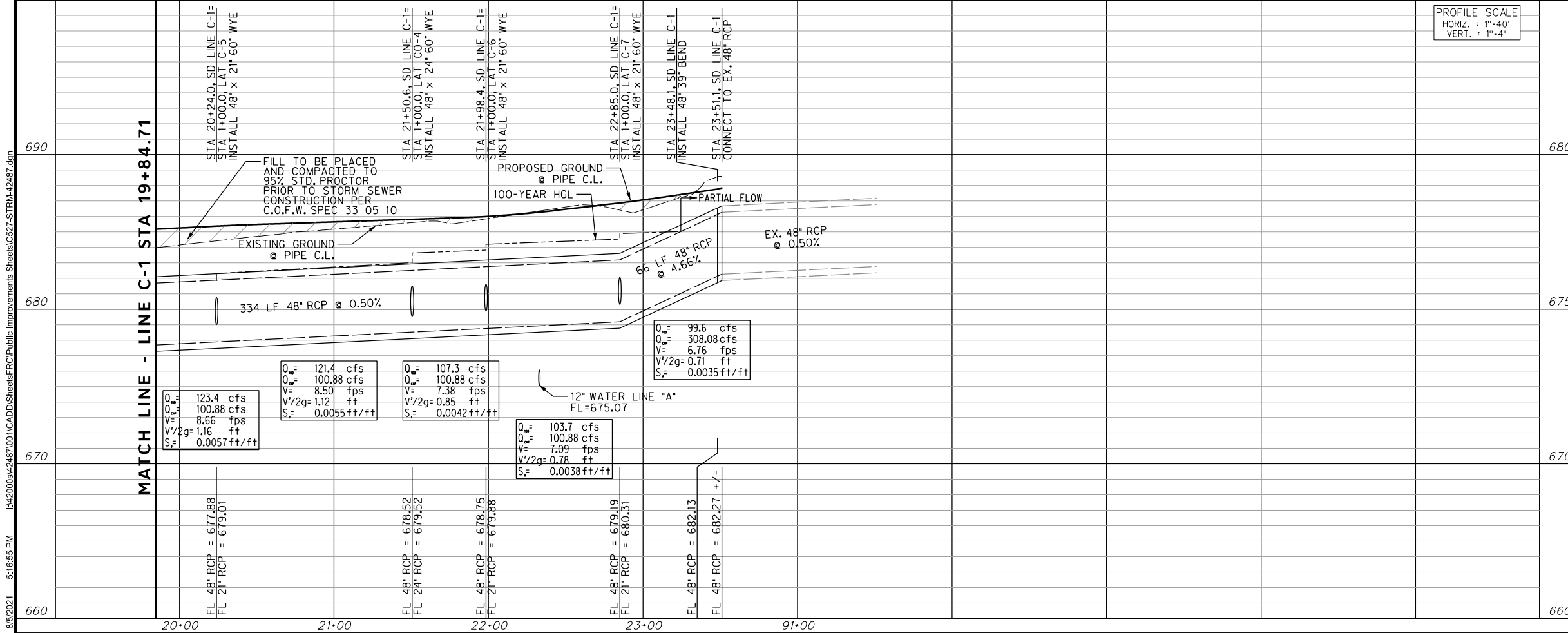
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
STORM DRAIN PLAN
 STA 87+00 TO END

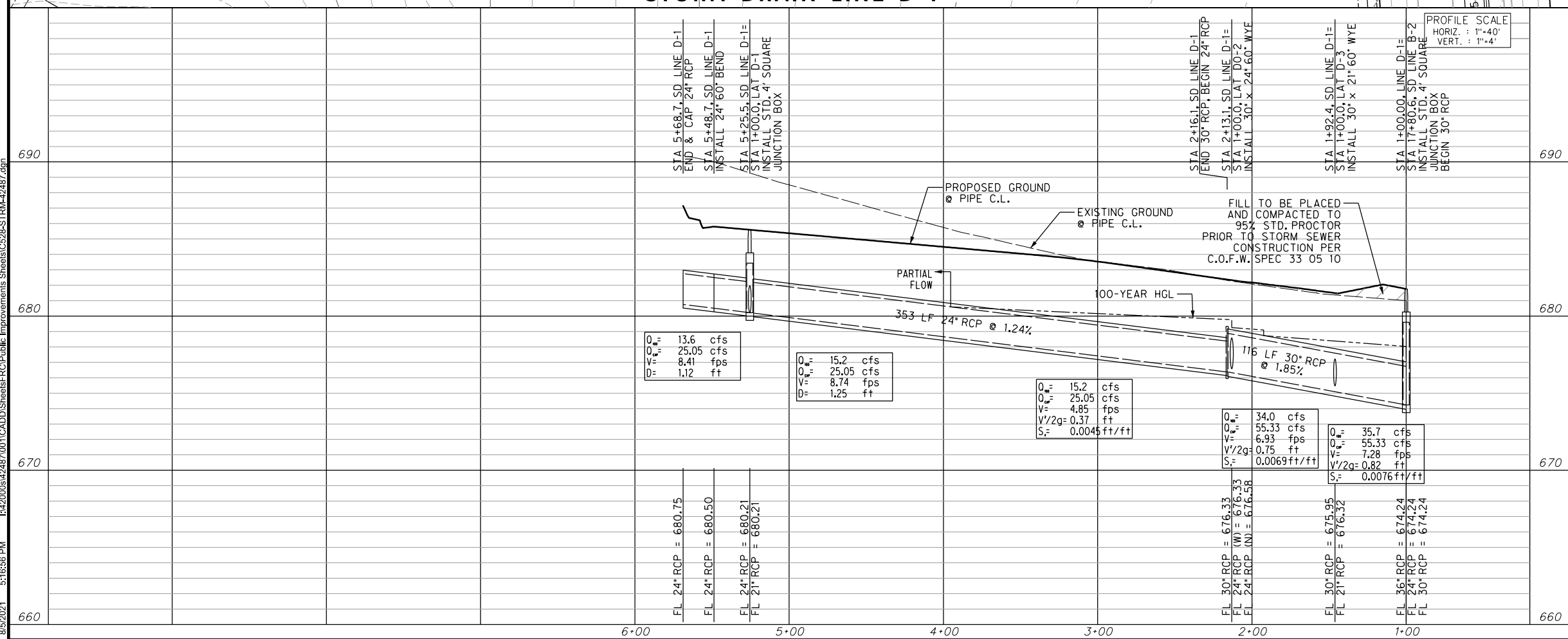
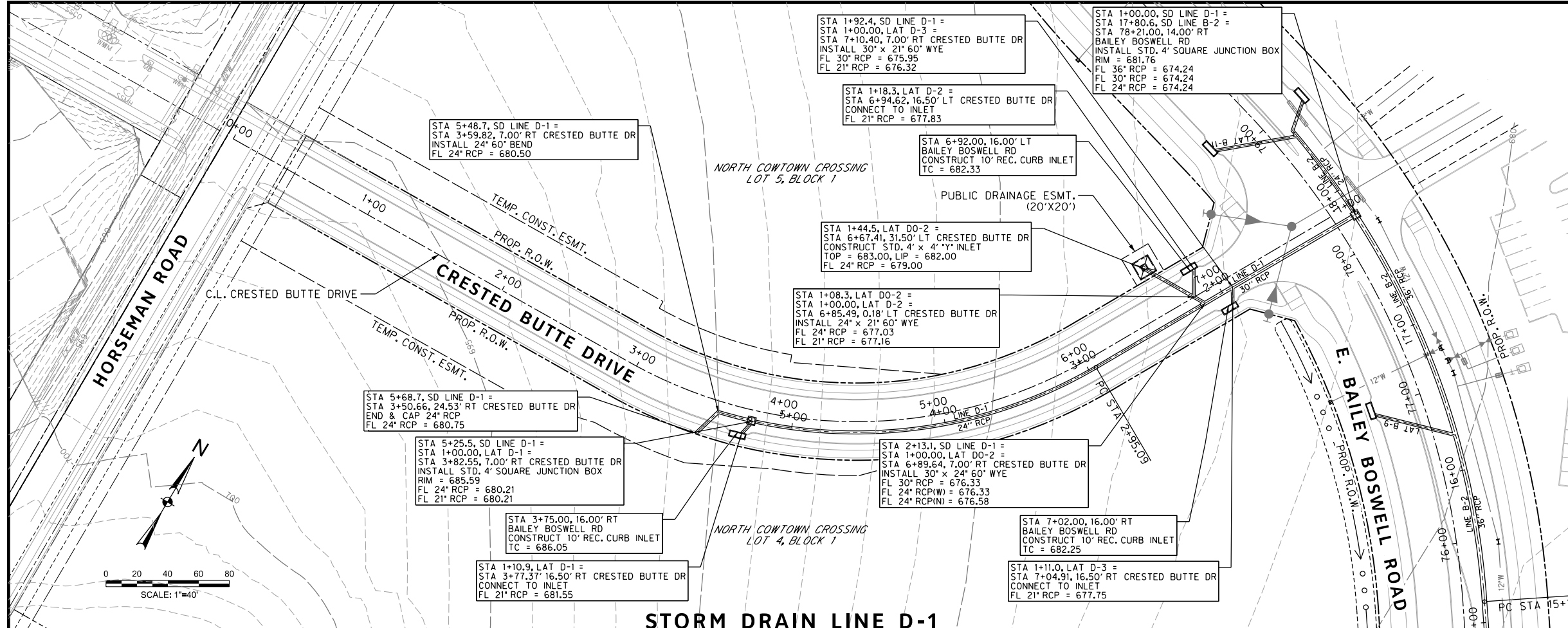
PLAN & PROFILE

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 97 OF 189
DRAWN: PTS			



STORM DRAIN LINE C-1





REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		

HALFF
 TYPE FIRM #312
 3803 PARKWOOD BLVD., STE 800
 FRISCO, TEXAS 75034-8640
 (214) 217-8994

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.

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) 392-8296
 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 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX MAPSCO NO. 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

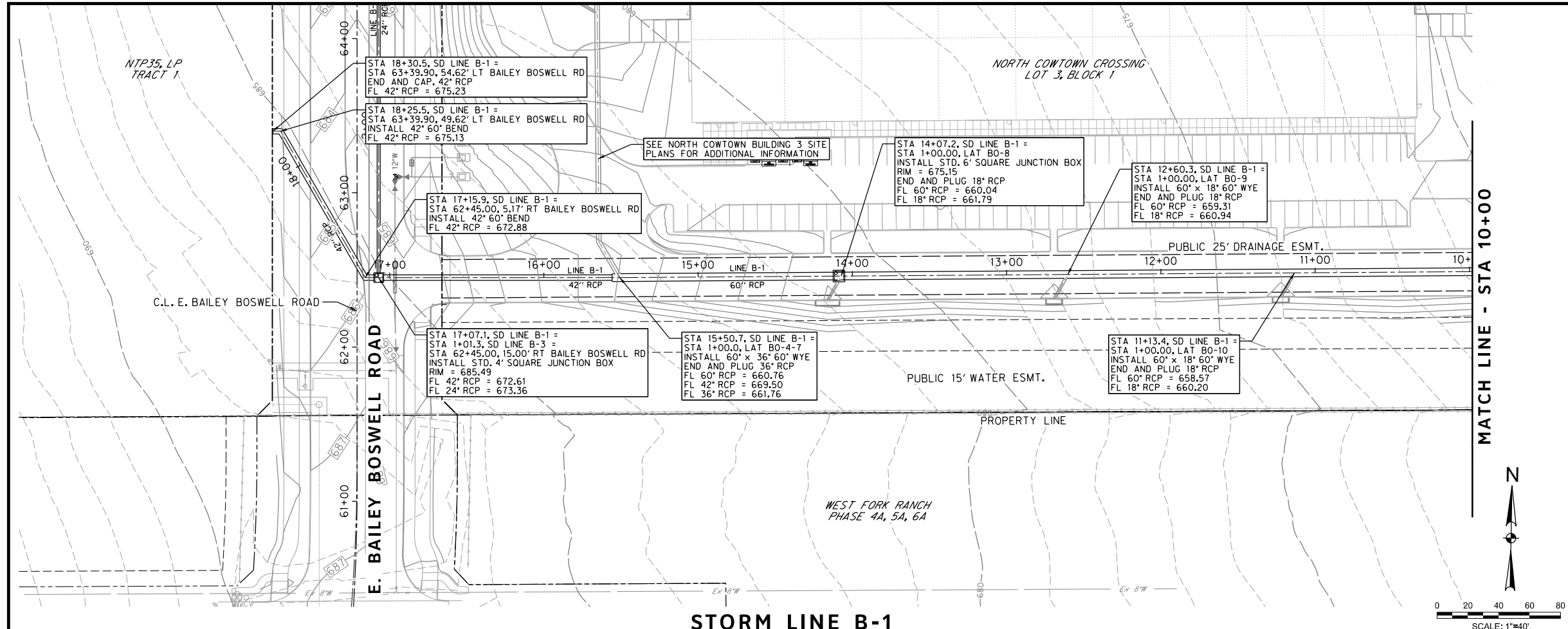
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

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

PLAN & PROFILE

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

8/5/2021 5:16:56 PM C528-STRM-42487.dgn



REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



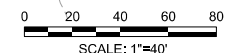
STORM DRAIN LEGEND

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

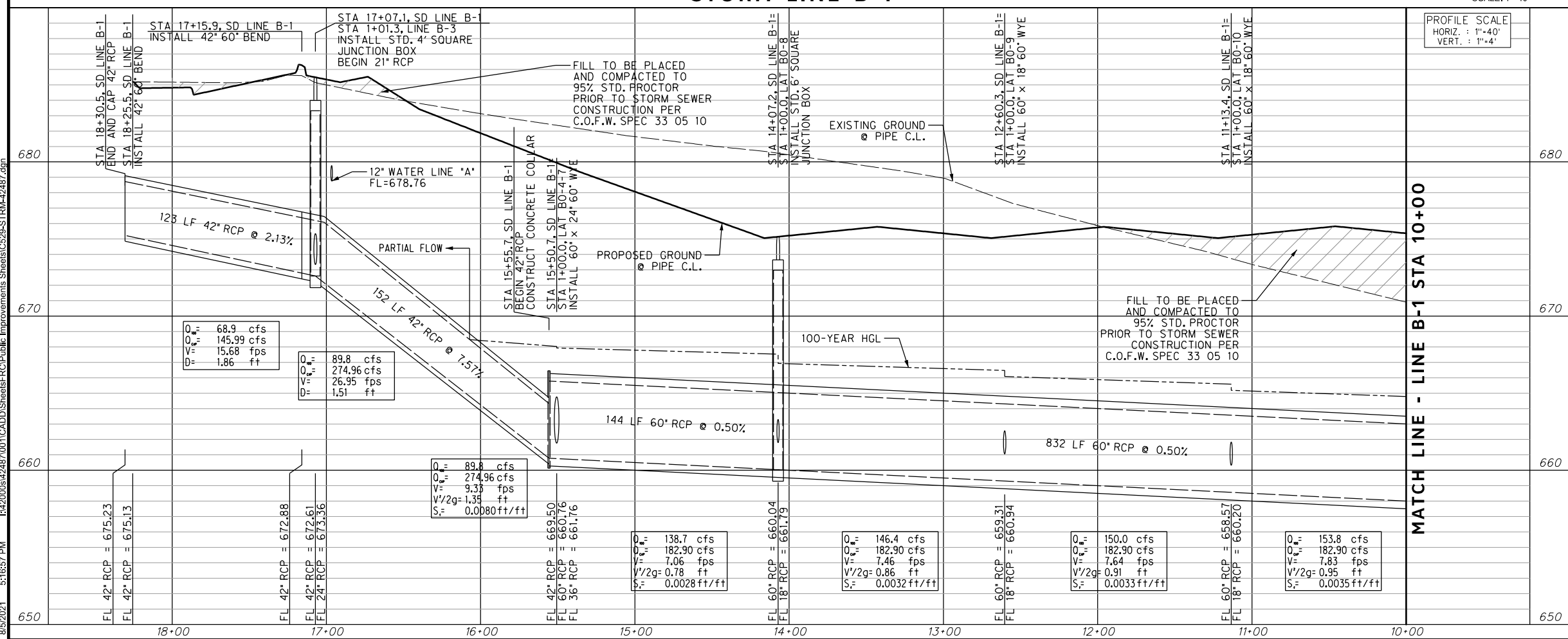
- NOTES:**
- FOR CURB INLETS 15' OR GREATER CONTRACTOR SHALL NOT CONSTRUCT SUPPORT WALL ABOVE LATERAL CONNECTION POINT.
 - ALL LATERAL AND TRUNK LINE WYE CONNECTIONS ARE 60" UNLESS OTHERWISE NOTED.
 - REINFORCED CONCRETE PIPES AND REINFORCED CONCRETE BOX CULVERTS TO BE PRECAST UNLESS OTHERWISE NOTED.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



The seal appearing on this document was authorized by Thamer M. Weaver, P.E. 138296 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TBPELS Engineering Firm #312



STORM LINE B-1



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) 392-8296
 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

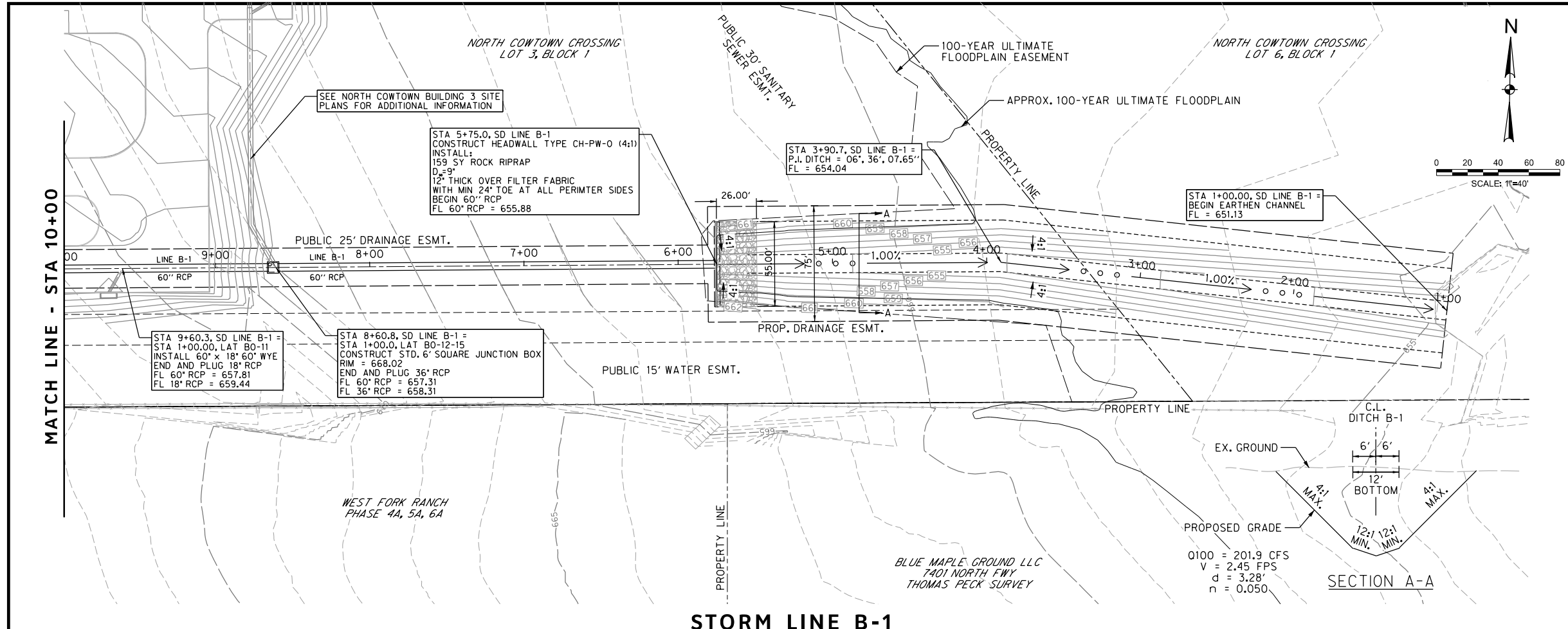
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
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
DRAWN: PTS			

8/5/2021 5:16:57 PM I:\42008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C529-STRM-42487.dgn



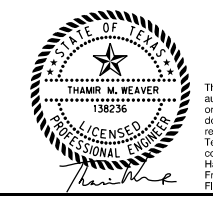
REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



STORM DRAIN LEGEND

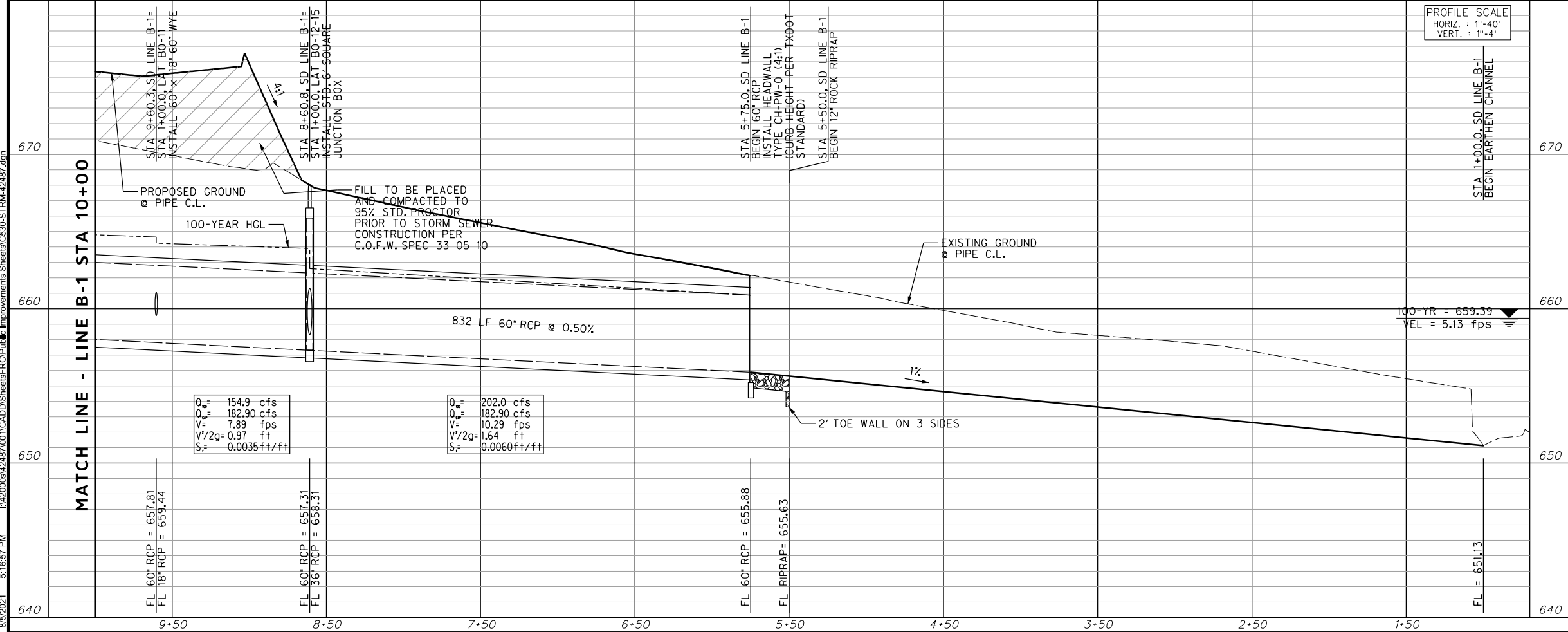
- PROPOSED CURB INLET
- PROPOSED DROP INLET W/ APRON
- PROPOSED STORM DRAIN
- PROPOSED MANHOLE
- PROPOSED RIPRAP

- 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.



The seal appearing on this document was authorized by Thamm M. Weaver, P.E. 138236 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TBPELS Engineering Firm #312

STORM LINE B-1



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) 392-8296
 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' 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

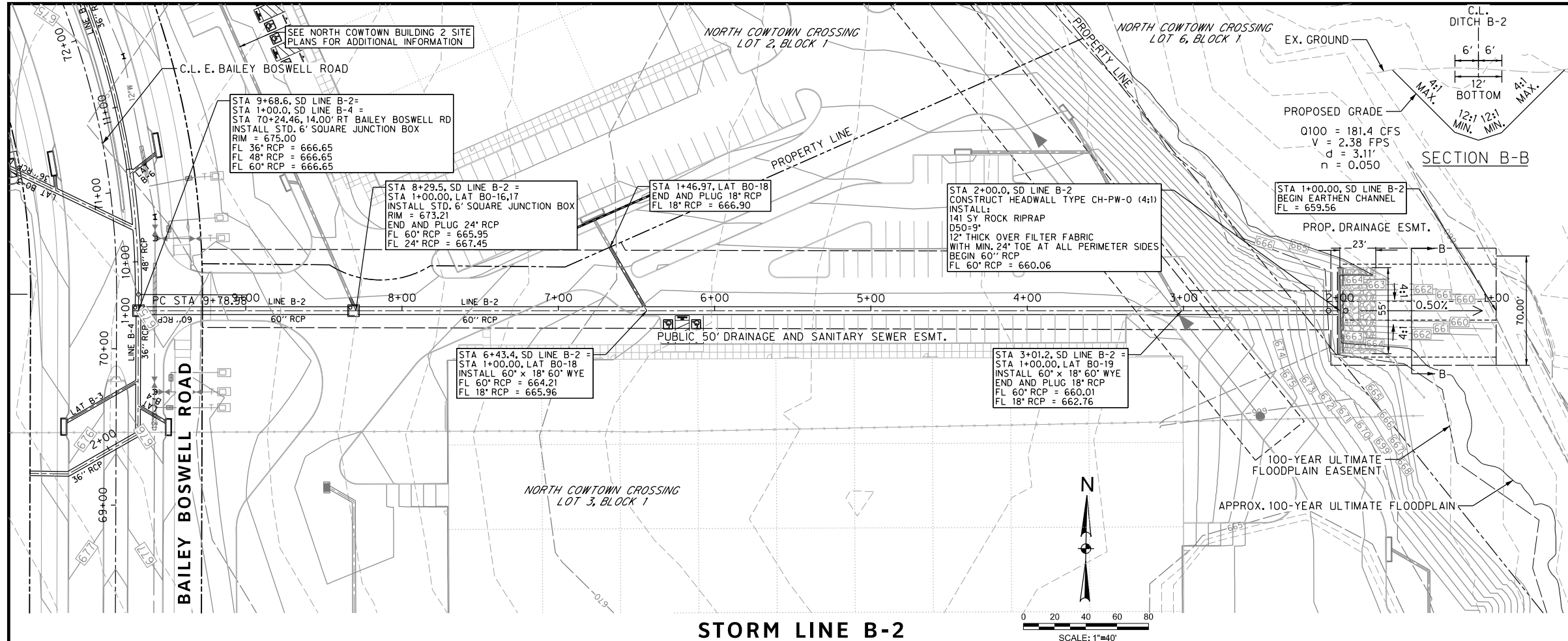
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

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

PLAN & PROFILE

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

8/5/2021 5:16:57 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C530-STRM-42487.dgn



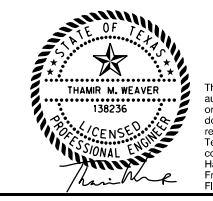
REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



STORM DRAIN LEGEND

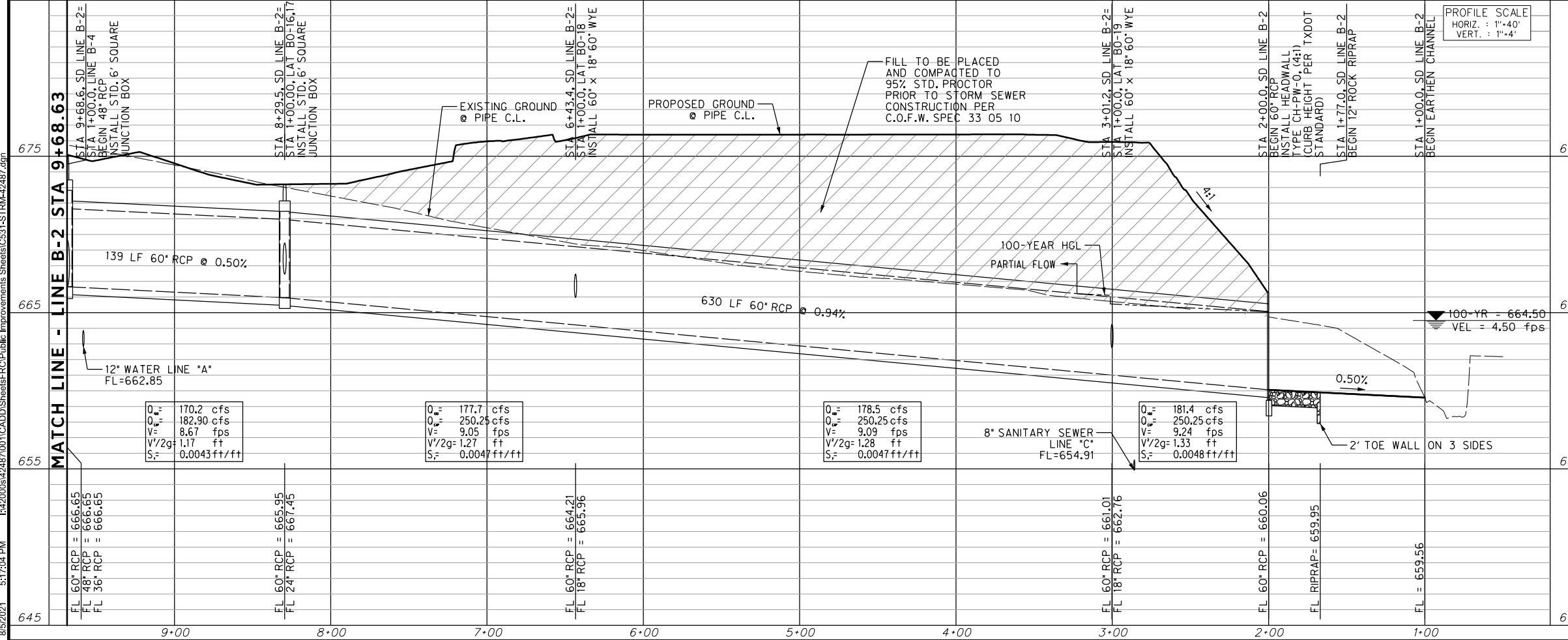
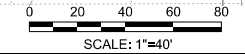
- PROPOSED CURB INLET
- PROPOSED DROP INLET W/ APRON
- PROPOSED STORM DRAIN
- PROPOSED MANHOLE
- PROPOSED RIPRAP

- 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.



The seal appearing on this document was authorized by Thamm M. Weaver, P.E. 138236 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TBPELS Engineering Firm #312

STORM LINE B-2



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) 392-8296
 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 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
---	---	---

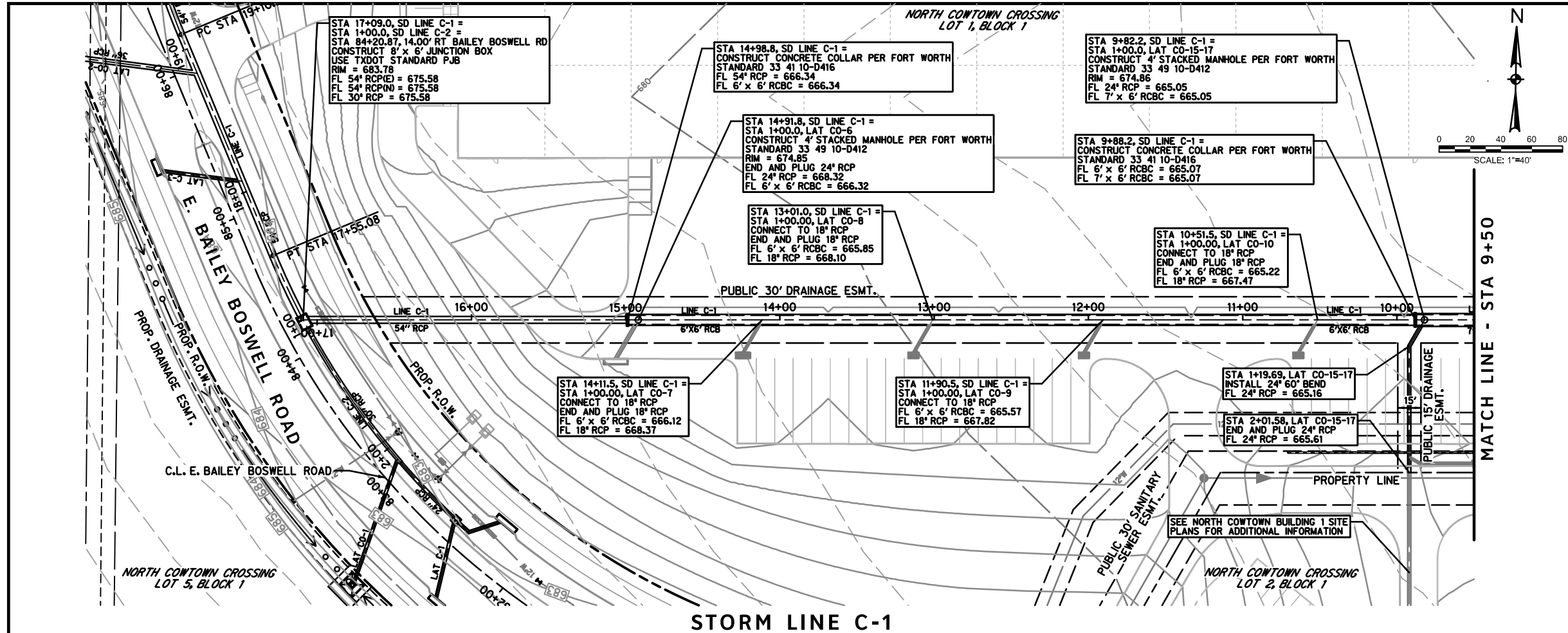
DOE # K-2840
 CITY PROJECT # 103320 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX MAPSCO NO. 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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-2

PLAN & PROFILE

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

8/5/2021 5:17:04 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C531-STRM-42487.dgn



REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



- 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.



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&P (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

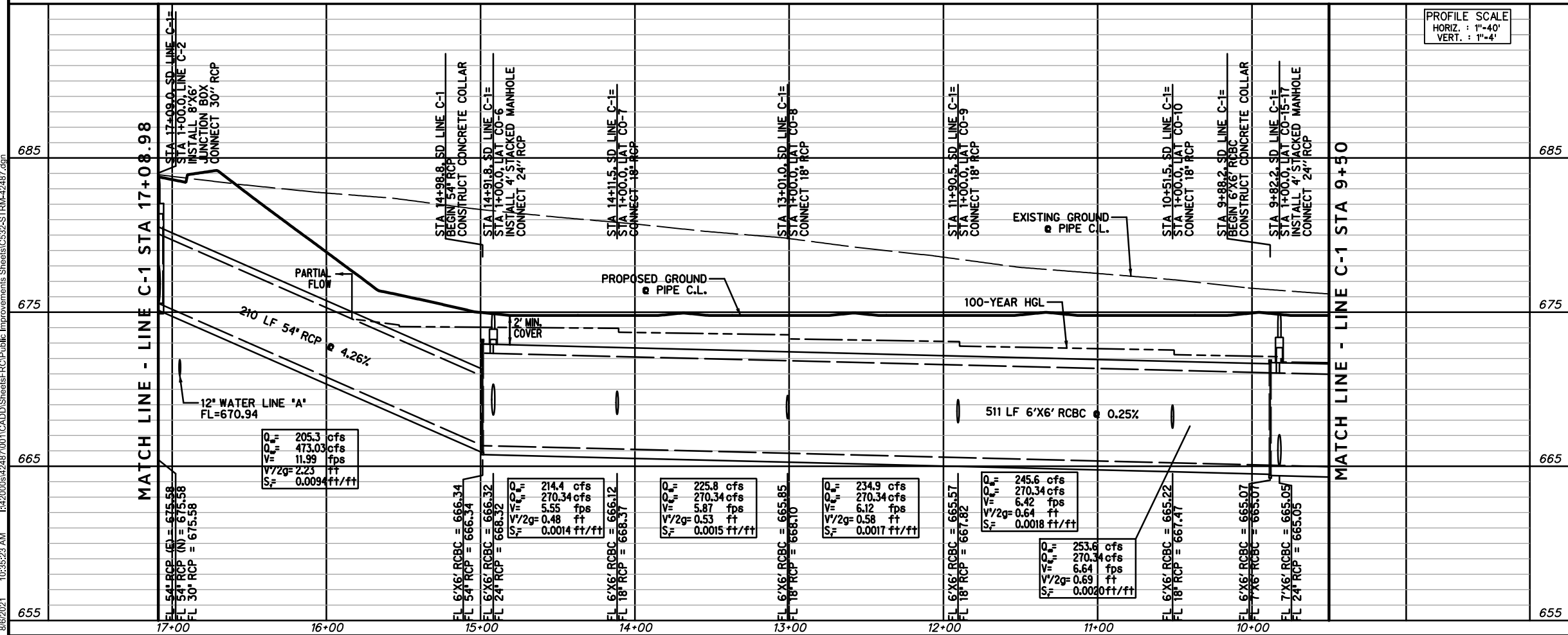
DOE # K-2840
 CITY PROJECT # 103320 MAFSCO NO. 115E AND 115F
 TFW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # FXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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

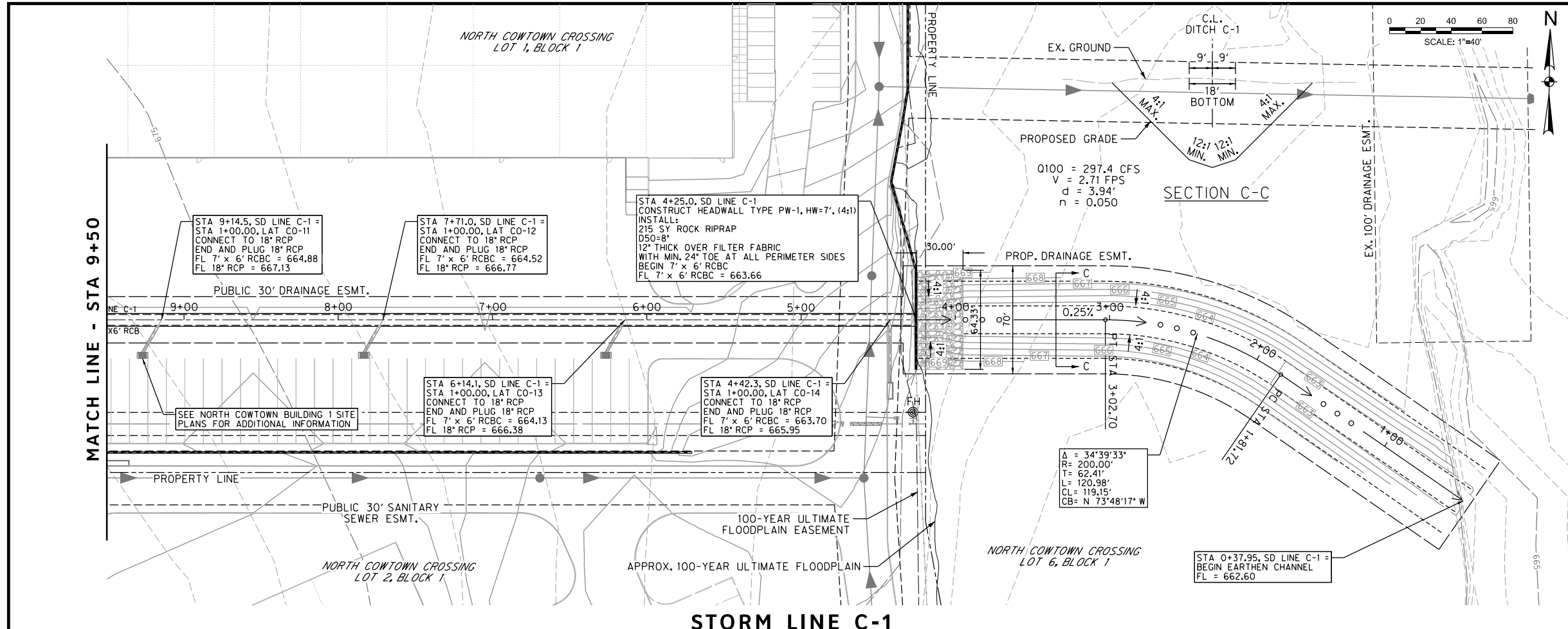
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
STORM DRAIN PLAN
 LINE C-1 - BEGIN TO STA 9+50

PLAN & PROFILE

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



8/6/2021 10:35:23 AM I:\2020\842487\001\CADD\Sheets\FRC\Public Improvements Sheets\C532-STRM-42487.dgn



REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



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.



The seal appearing on this document was authorized by Thamm M. Weaver, P.E. 138236 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TBPELS Engineering Firm #312

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 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

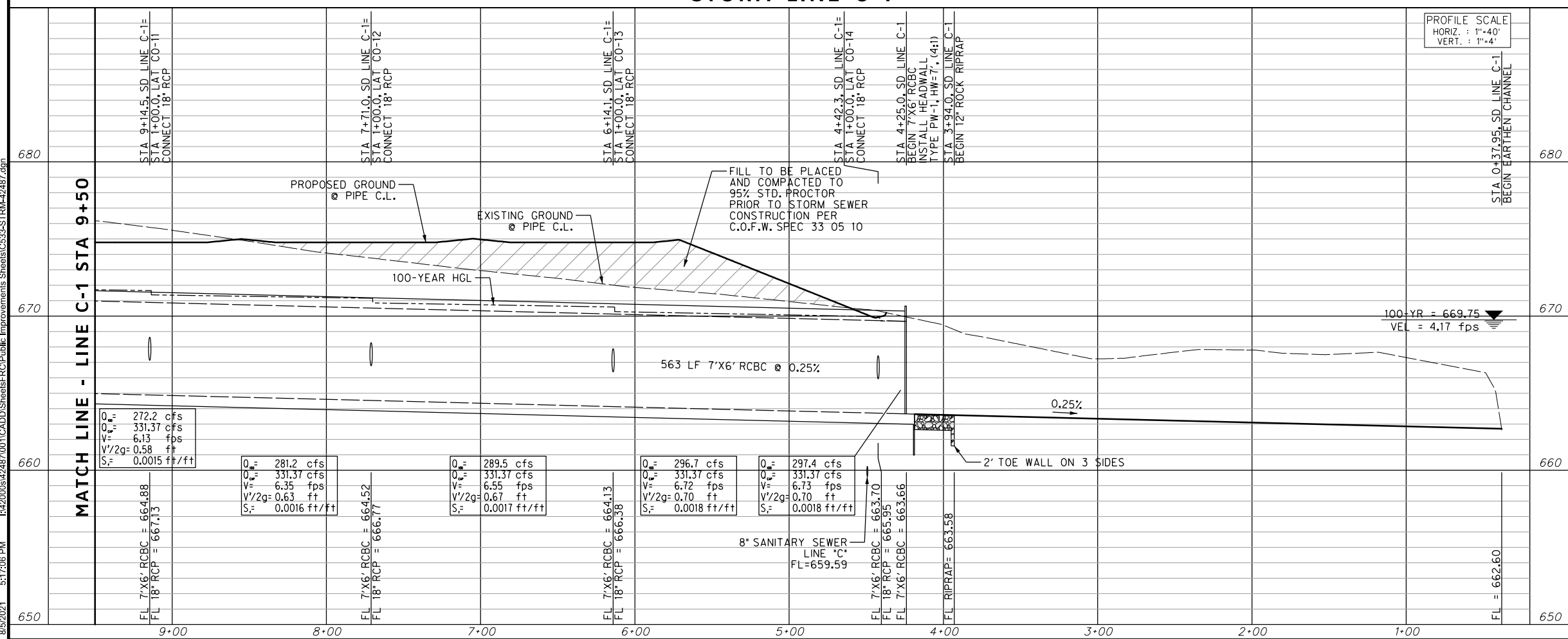
DOE # K-2840
 CITY PROJECT # 103320 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX MAPSCO NO. 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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

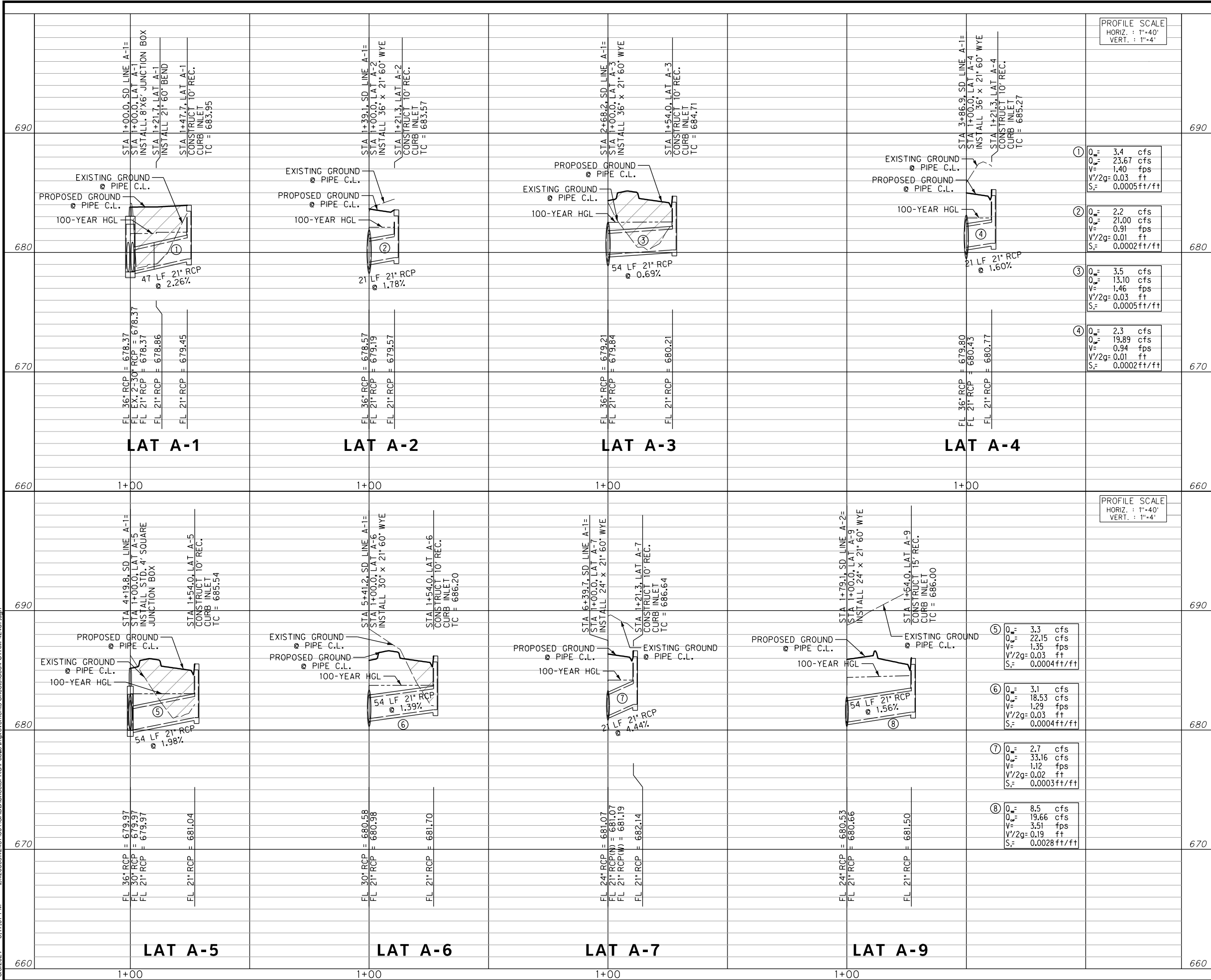
PLAN & PROFILE

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



8/5/2021 5:17:06 PM I:\42008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C533-STRM-42487.dgn

8/5/2021 5:17:07 PM I:\42008\42487\001\CADD\Sheets\FRC-Public Improvements Sheets\C534-STRM-42487.dgn



REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		

TBPE FIRM #312
 3803 PARKWOOD BLVD., STE 800
 FORT WORTH, TEXAS 76104-8640
 (214) 217-8994

SCALE: 1"=40'

The seal appearing on this document was authorized by Thamer M. Weaver, P.E. 138236 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TBPELS Engineering Firm #312

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) 392-8296
 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 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
---	---	---

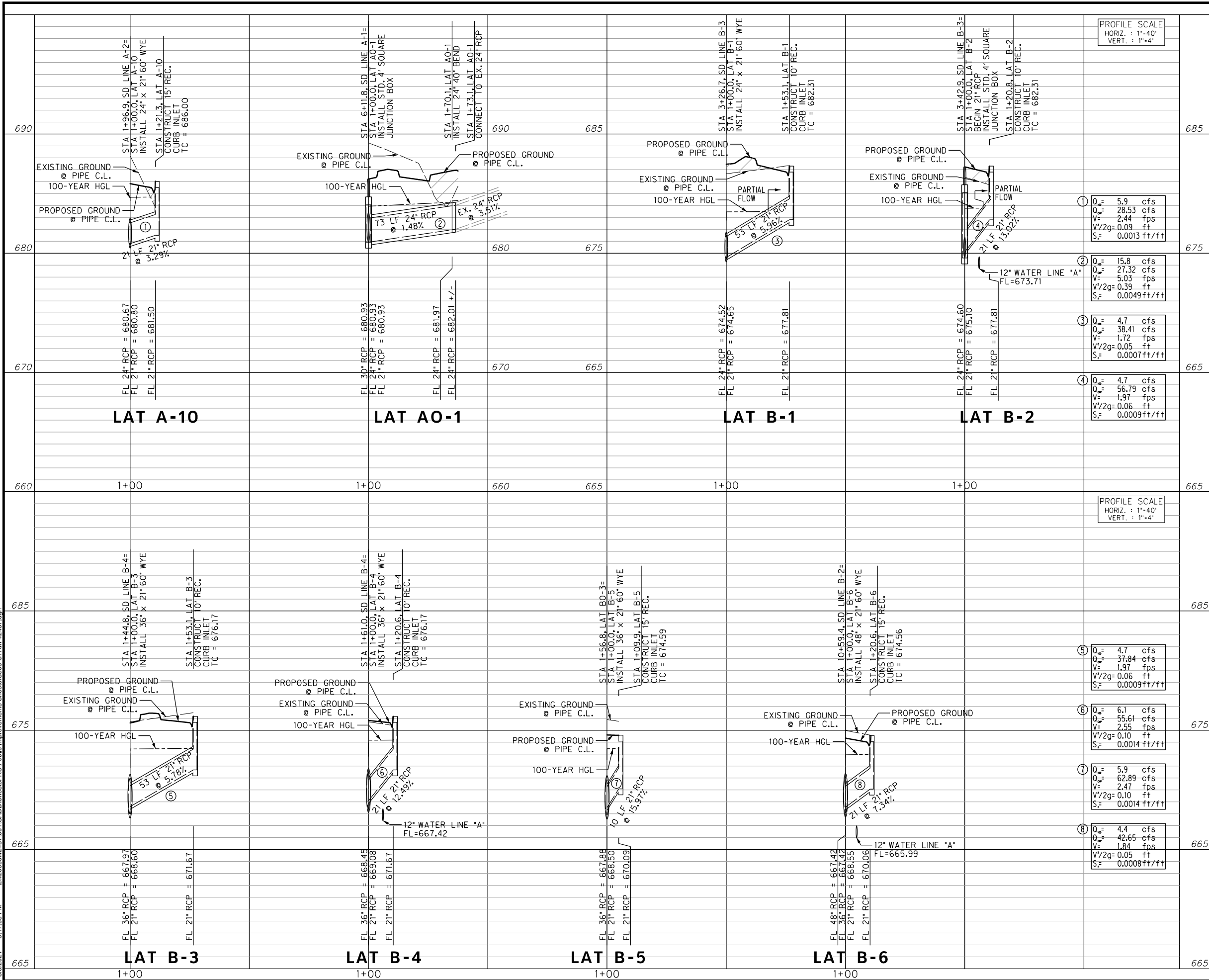
DOE # _____ K-2840
 CITY PROJECT # 103320 MAPSCO NO.
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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 LATERALS

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET
DRAWN: PTS			104 OF 189

8/5/2021 5:17:07 PM C534-STRM-42487.dgn

8/5/2021 5:17:08 PM I:\420008\42487\01\CADD\Sheets\FRC\Public Improvements Sheets\C535-STRM-42487.dgn



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

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

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

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

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

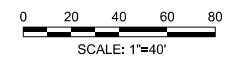
⑥ $Q_w = 6.1$ cfs
 $Q_w = 55.61$ cfs
 $V = 2.55$ fps
 $V/2g = 0.10$ ft
 $S_c = 0.0014$ ft/ft

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

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

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Thamer M. Weaver, P.E. 138236 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TBPELS Engineering Firm #312

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) 392-8296
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

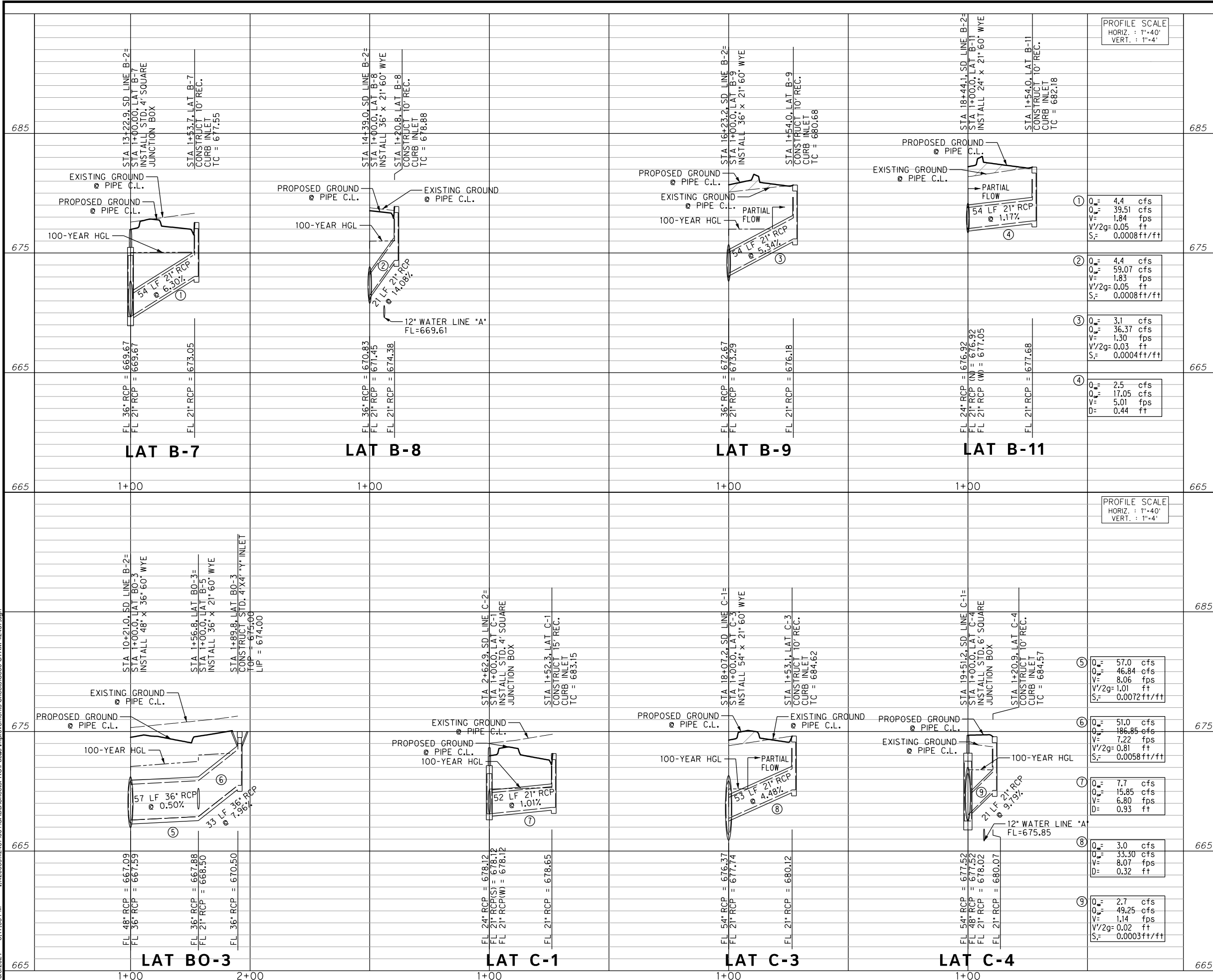
CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

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

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

8/5/2021 5:17:08 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C536-STRM-42487.dgn



REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		

3803 PARKWOOD BLVD., STE 800
FRISCO, TEXAS 75034-8640
(214) 217-8994

SCALE: 1"=40'

THAMER M. WEAVER
139236
LICENSED PROFESSIONAL ENGINEER

The seal appearing on this document was authorized by Thamer M. Weaver, P.E. 138236 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034. TBPELS Engineering Firm #312

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) 392-8296
 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**

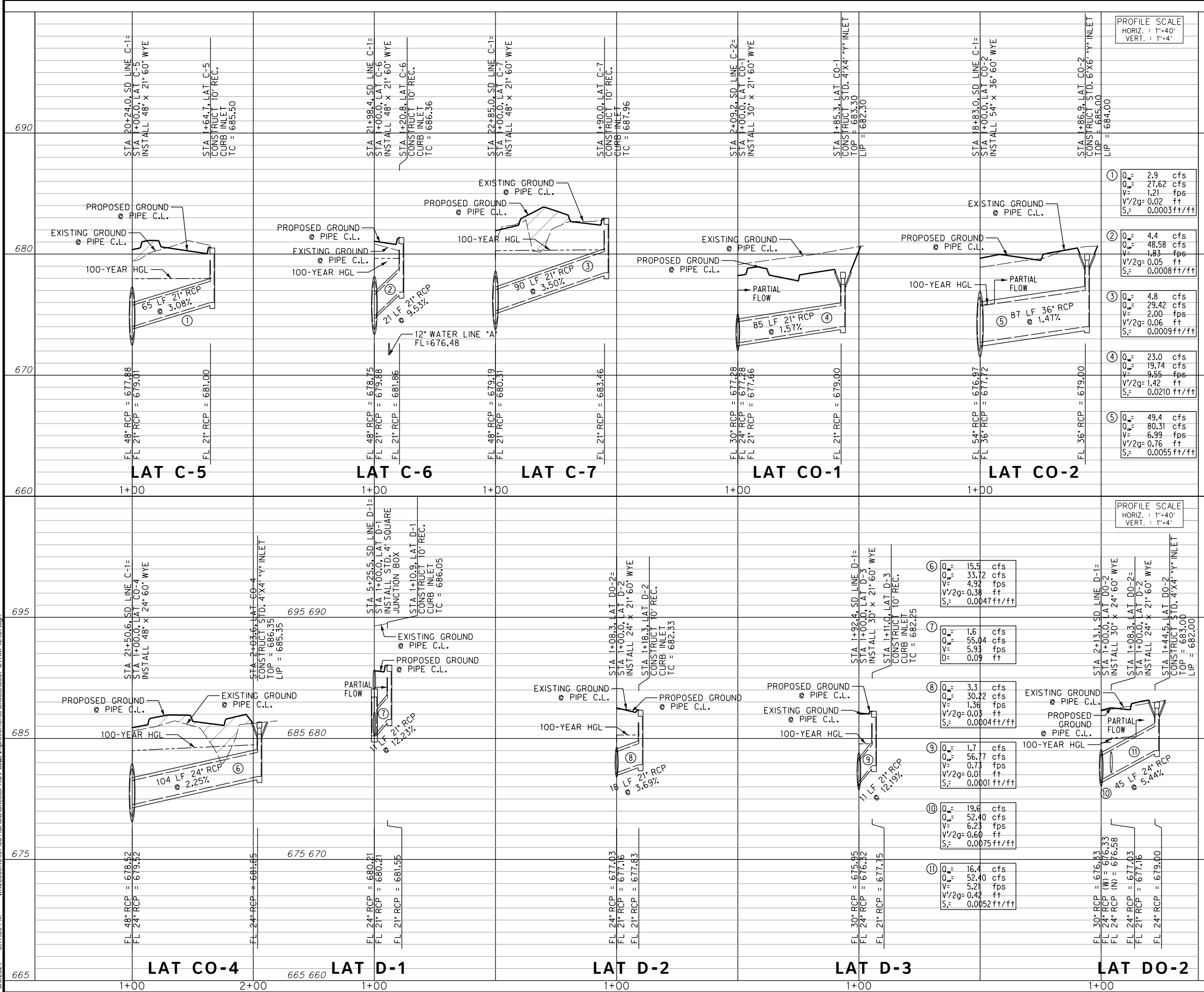
**TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

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

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

8/5/2021 5:17:08 PM C536-STRM-42487.dgn

8/5/2021 5:17:09 PM I:\42008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C537-STRM-42487.dgn



REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		

TBPE FIRM #312
 3803 PARKWOOD BLVD., STE 800
 FORT WORTH, TEXAS 76104-8640
 (214) 217-8994

SCALE: 1"=40'

The seal appearing on this document was authorized by Thamm M. Weaver, P.E. 138236 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TBPELS Engineering Firm #312

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) 392-8296
 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

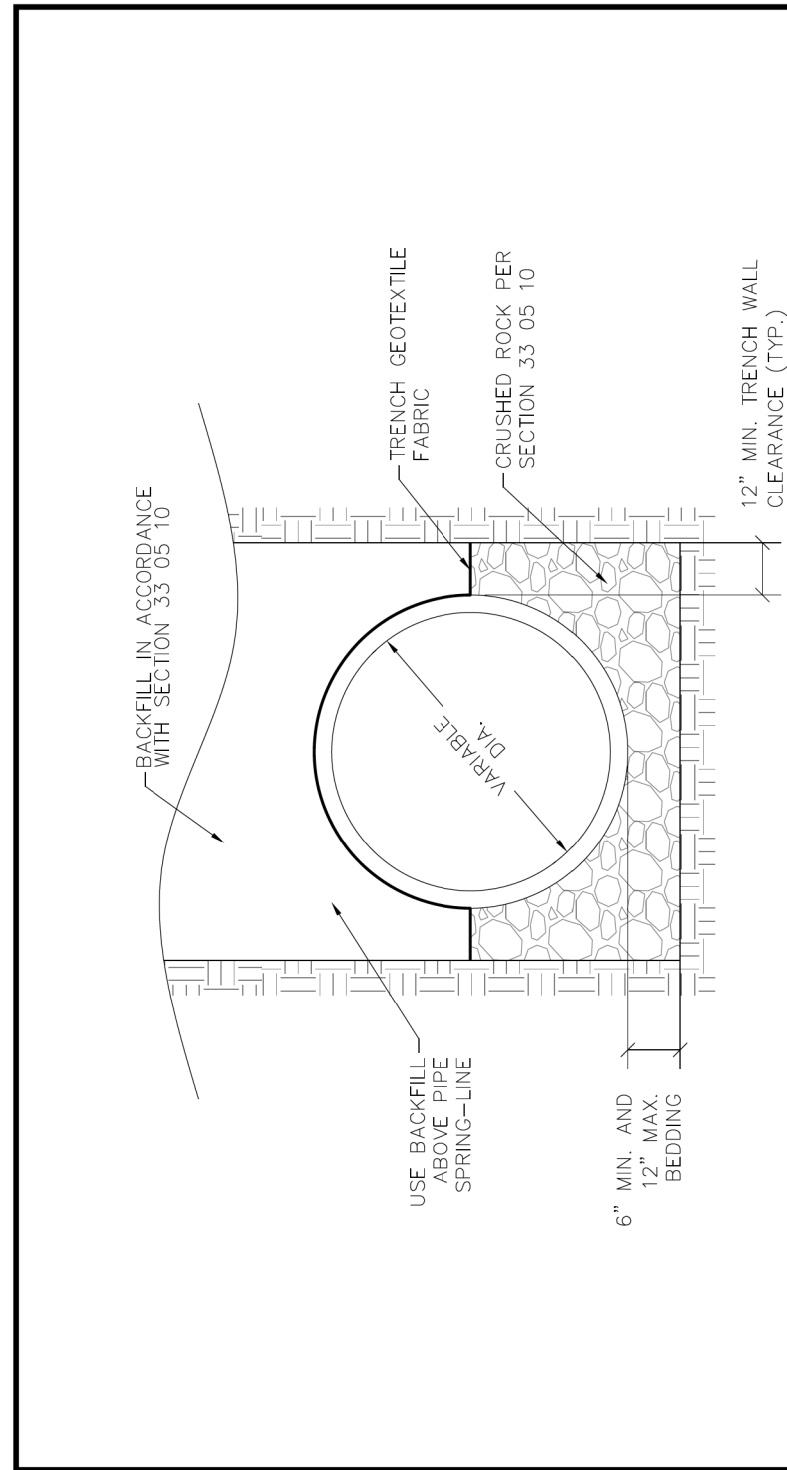
DOE # _____ K-2840
 CITY PROJECT # 103320 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX MAPSCO NO. 119E AND 119F
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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
DRAWN: PTS			

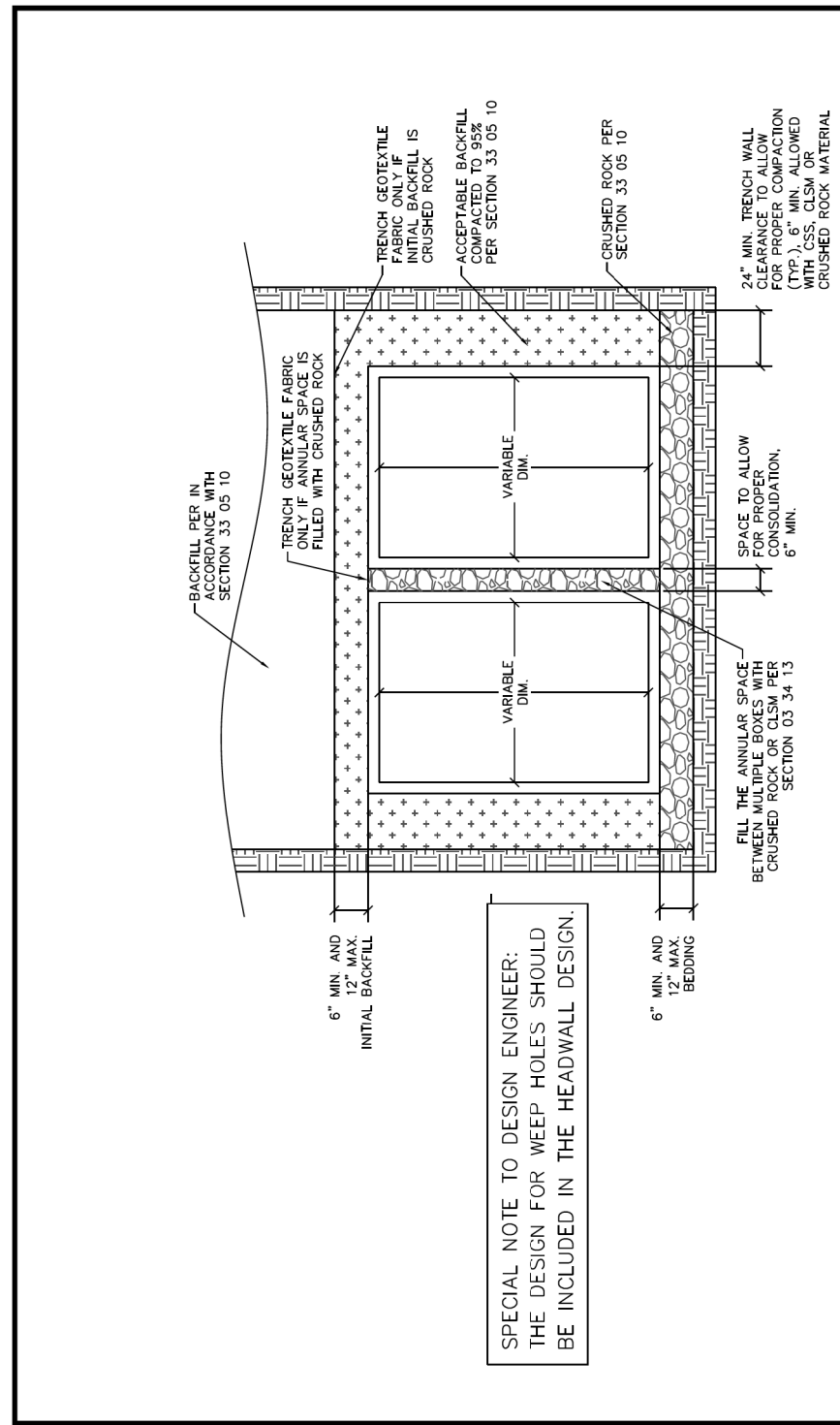
8/5/2021 5:17:09 PM C537-STRM-42487.dgn



FORT WORTH

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.

FORT WORTH

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		
2		
3		



The seal appearing on this document was authorized by Thamer M. Weaver, P.E. 138236 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034. TBPELS Engineering Firm #312

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) 392-8296
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' 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

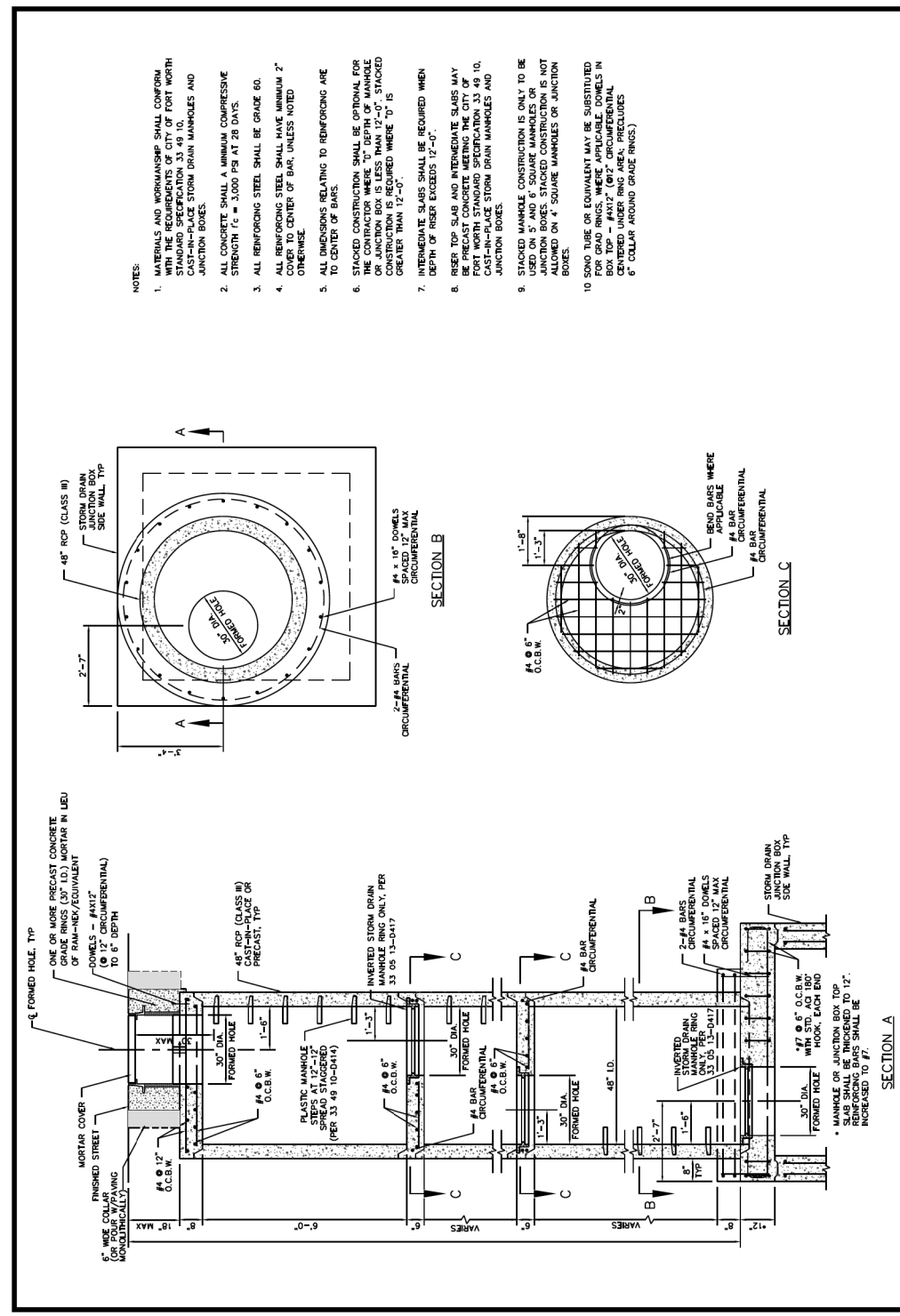
DOE # K-2840
CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
MAP NO. XXXX-XXX

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
STORM DRAIN DETAILS
(SHEET 1 OF 11)

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



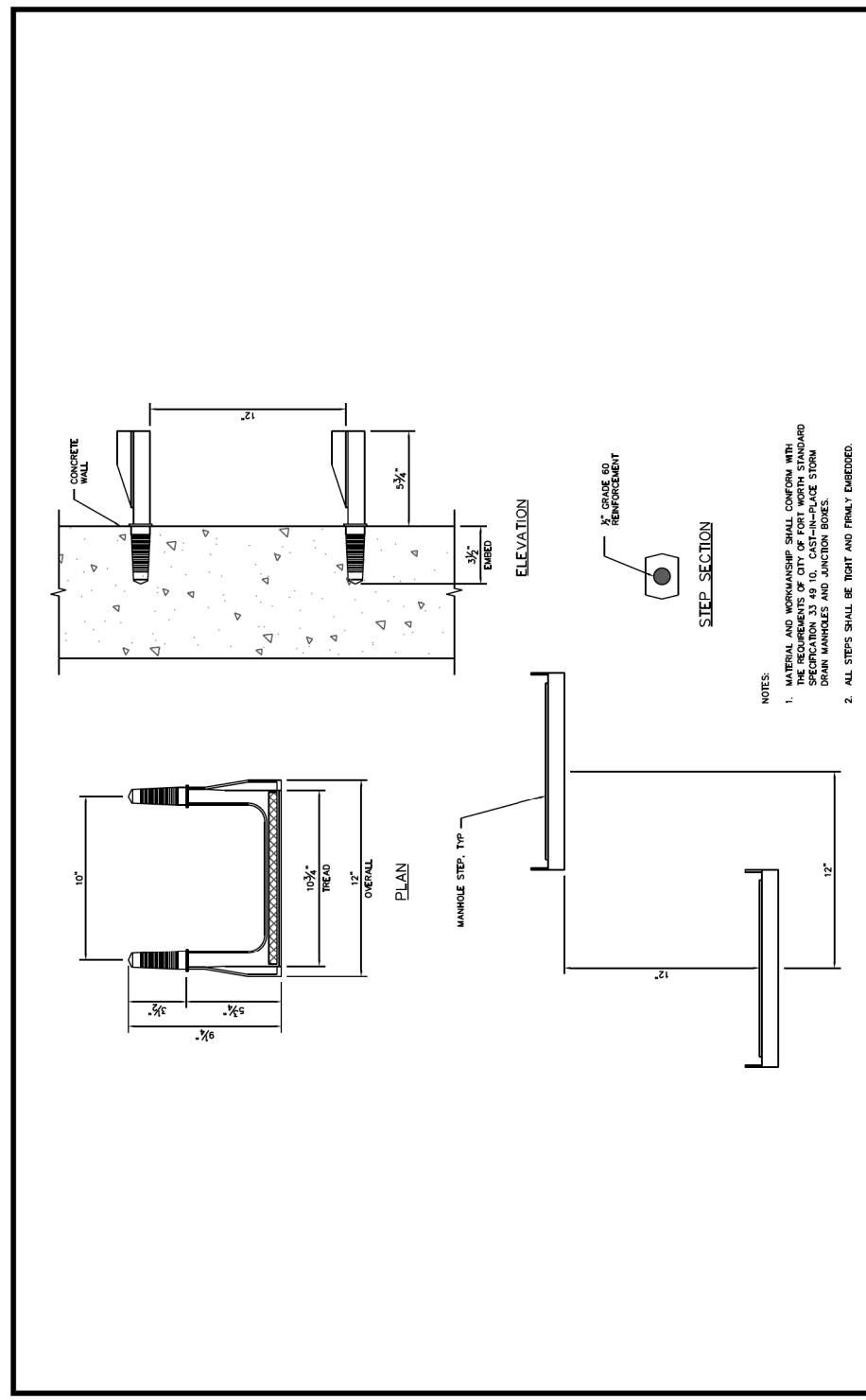
FORT WORTH

CITY OF FORT WORTH, TEXAS

REVISED 04-30-2021

33 49 10-D412

- NOTES:**
1. MATERIALS AND WORKMANSHIP SHALL CONFORM WITH THE REQUIREMENTS OF CITY OF FORT WORTH STANDARD SPECIFICATION 33 49 10, CAST-IN-PLACE STORM DRAIN MANHOLES AND JUNCTION BOXES.
 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. ALL REINFORCING STEEL SHALL HAVE MINIMUM 2" FROM CENTER OF BOX, UNLESS NOTED OTHERWISE.
 5. ALL DIMENSIONS RELATING TO REINFORCING ARE TO CENTER OF BARS.
 6. STACKED CONSTRUCTION SHALL BE OPTIONAL FOR INTERMEDIATE SLABS. INTERMEDIATE SLABS SHALL BE PRECAST CONCRETE MEETING THE CITY OF FORT WORTH STANDARD SPECIFICATION 33 49 10, CAST-IN-PLACE STORM DRAIN MANHOLES AND JUNCTION BOXES. CONSTRUCTION IS REQUIRED WHERE "D" IS GREATER THAN 12'-0".
 7. INTERMEDIATE SLABS SHALL BE REQUIRED WHEN DEPTH OF RISER EXCEEDS 12'-0".
 8. RISER TOP SLAB AND INTERMEDIATE SLABS MAY BE PRECAST CONCRETE MEETING THE CITY OF FORT WORTH STANDARD SPECIFICATION 33 49 10, CAST-IN-PLACE STORM DRAIN MANHOLES AND JUNCTION BOXES.
 9. STACKED MANHOLE CONSTRUCTION IS ONLY TO BE USED ON 4" SQUARE MANHOLES OR JUNCTION BOXES. 5" SQUARE MANHOLES OR JUNCTION BOXES SHALL NOT BE ALLOWED ON 4" SQUARE MANHOLES OR JUNCTION BOXES.
 10. SAND TUBE OR EQUIVALENT MAY BE SUBSTITUTED FOR GRADE RINGS, WHERE APPLICABLE, DOWELS IN BOX TOP - #4x12' (#2' CIRCUMFERENTIAL) AND DOWELS IN BOX BOTTOM - #4x12' (#2' CIRCUMFERENTIAL, 6" COLLAR AROUND GRADE RINGS).



FORT WORTH

CITY OF FORT WORTH, TEXAS

REVISED 04-30-2021

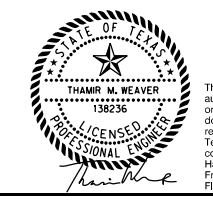
33 49 10-D414

- NOTES:**
1. MATERIAL AND WORKMANSHIP SHALL CONFORM WITH THE REQUIREMENTS OF CITY OF FORT WORTH STANDARD SPECIFICATION 33 49 10, CAST-IN-PLACE STORM DRAIN MANHOLES AND JUNCTION BOXES.
 2. ALL STEPS SHALL BE TIGHT AND FIRMLY EMBEDDED.
 3. STEPS SHALL BE PARALLEL.
 4. ALL STEPS WITHIN A STRUCTURE SHALL BE OF THE SAME DESIGN, SIZE, AND TYPE.
 5. DRILLED HOLES FOR STEPS SHALL BE CLEAN AND DRY. STEPS SHALL BE ATTACHED TO WALL WITH EPOXY.



REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Thamm M. Weaver, P.E. 138236 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034. TBPELS Engineering Firm #312

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) 392-8296
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' 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

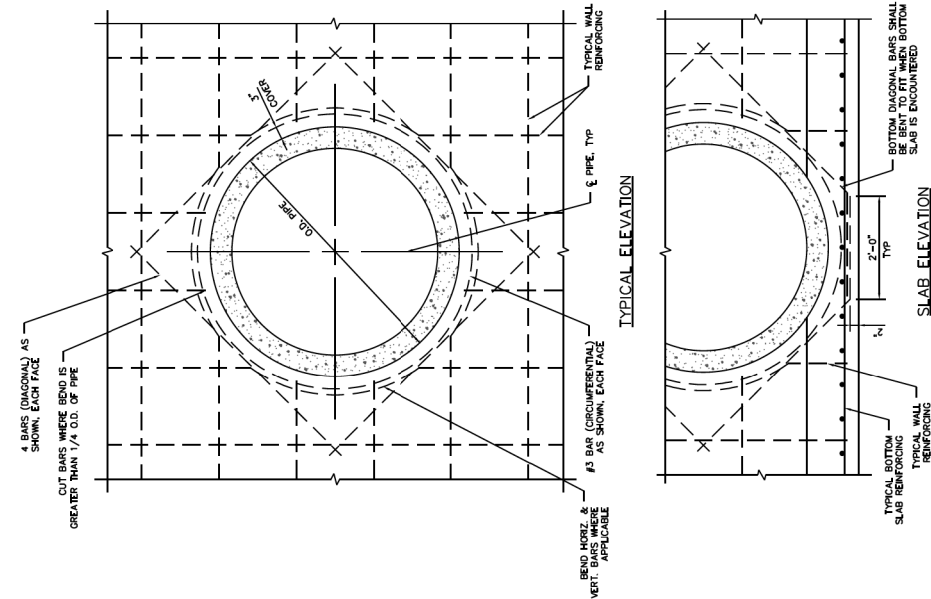
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
STORM DRAIN DETAILS
(SHEET 5 OF 11)

DESIGNED: TMW	SCALE:	DATE:	SHEET
DRAWN: PTS	N.T.S.	06/08/2021	112 OF 189

NOTES:

1. MATERIAL AND WORKMANSHIP SHALL CONFORM WITH THE STANDARD SPECIFICATION FOR CAST-IN-PLACE STORM DRAIN MANHOLES AND JUNCTION BOXES.
2. ALL REINFORCING STEEL SHALL BE GRADE 60.
3. DIAGONAL BAR SIZE SHALL MATCH THE LARGEST SIZE OF HORIZONTAL OR VERTICAL WALL REINFORCING.

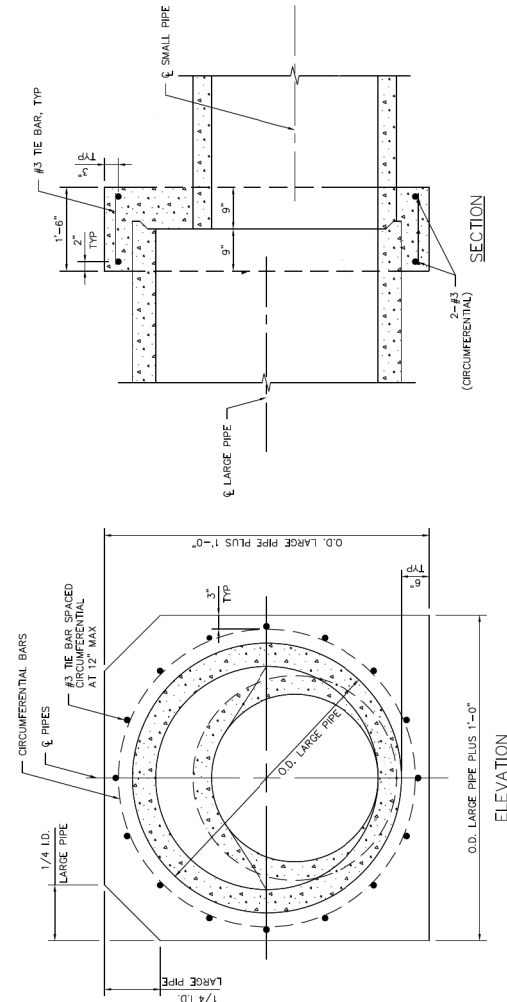


CITY OF FORT WORTH, TEXAS
TYPICAL MANHOLE/
PIPE PENETRATION

REVISED 04-30-2021
33 49 10-D415

NOTES:

1. MATERIAL AND WORKMANSHIP SHALL CONFORM WITH THE STANDARD SPECIFICATION FOR CAST-IN-PLACE 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
FRIISCO, TEXAS 75034-8640
(214) 217-8994



The seal appearing on this document was authorized by Thamer M. Weaver, P.E. 138236 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034. TBPELS Engineering Firm #312

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) 392-8296
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
STORM DRAIN DETAILS
(SHEET 6 OF 11)

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

TABLE OF VARIABLE DIMENSIONS AND QUANTITIES FOR ONE HEADWALL

Values for one pipe
Values for all pipes
Values for one structure
Values for all structures

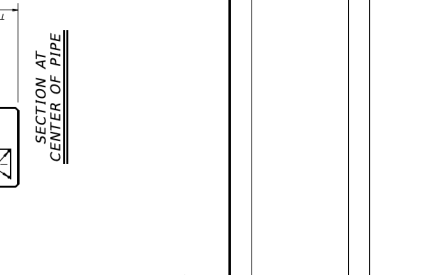
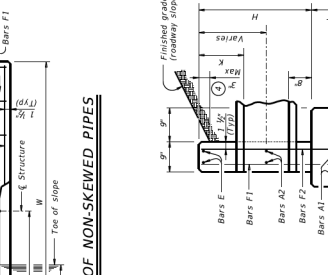
Dimensions	W	X	Y	Z	Bar #	Bar Size	Bar Spacing	Bar No.	Bar Area	Bar Volume	Bar Weight
1.0	8'-0"	10'	10'	10'	1	#4	1'-0"	16	0.2	0.2	0.2
1.1	10'-0"	12'	12'	12'	1	#4	1'-0"	16	0.2	0.2	0.2
1.2	12'-0"	14'	14'	14'	1	#4	1'-0"	16	0.2	0.2	0.2
1.3	14'-0"	16'	16'	16'	1	#4	1'-0"	16	0.2	0.2	0.2
1.4	16'-0"	18'	18'	18'	1	#4	1'-0"	16	0.2	0.2	0.2
1.5	18'-0"	20'	20'	20'	1	#4	1'-0"	16	0.2	0.2	0.2
1.6	20'-0"	22'	22'	22'	1	#4	1'-0"	16	0.2	0.2	0.2
1.7	22'-0"	24'	24'	24'	1	#4	1'-0"	16	0.2	0.2	0.2
1.8	24'-0"	26'	26'	26'	1	#4	1'-0"	16	0.2	0.2	0.2
1.9	26'-0"	28'	28'	28'	1	#4	1'-0"	16	0.2	0.2	0.2
2.0	28'-0"	30'	30'	30'	1	#4	1'-0"	16	0.2	0.2	0.2
2.1	30'-0"	32'	32'	32'	1	#4	1'-0"	16	0.2	0.2	0.2
2.2	32'-0"	34'	34'	34'	1	#4	1'-0"	16	0.2	0.2	0.2
2.3	34'-0"	36'	36'	36'	1	#4	1'-0"	16	0.2	0.2	0.2
2.4	36'-0"	38'	38'	38'	1	#4	1'-0"	16	0.2	0.2	0.2
2.5	38'-0"	40'	40'	40'	1	#4	1'-0"	16	0.2	0.2	0.2
2.6	40'-0"	42'	42'	42'	1	#4	1'-0"	16	0.2	0.2	0.2
2.7	42'-0"	44'	44'	44'	1	#4	1'-0"	16	0.2	0.2	0.2
2.8	44'-0"	46'	46'	46'	1	#4	1'-0"	16	0.2	0.2	0.2
2.9	46'-0"	48'	48'	48'	1	#4	1'-0"	16	0.2	0.2	0.2
3.0	48'-0"	50'	50'	50'	1	#4	1'-0"	16	0.2	0.2	0.2
3.1	50'-0"	52'	52'	52'	1	#4	1'-0"	16	0.2	0.2	0.2
3.2	52'-0"	54'	54'	54'	1	#4	1'-0"	16	0.2	0.2	0.2
3.3	54'-0"	56'	56'	56'	1	#4	1'-0"	16	0.2	0.2	0.2
3.4	56'-0"	58'	58'	58'	1	#4	1'-0"	16	0.2	0.2	0.2
3.5	58'-0"	60'	60'	60'	1	#4	1'-0"	16	0.2	0.2	0.2
3.6	60'-0"	62'	62'	62'	1	#4	1'-0"	16	0.2	0.2	0.2
3.7	62'-0"	64'	64'	64'	1	#4	1'-0"	16	0.2	0.2	0.2
3.8	64'-0"	66'	66'	66'	1	#4	1'-0"	16	0.2	0.2	0.2
3.9	66'-0"	68'	68'	68'	1	#4	1'-0"	16	0.2	0.2	0.2
4.0	68'-0"	70'	70'	70'	1	#4	1'-0"	16	0.2	0.2	0.2
4.1	70'-0"	72'	72'	72'	1	#4	1'-0"	16	0.2	0.2	0.2
4.2	72'-0"	74'	74'	74'	1	#4	1'-0"	16	0.2	0.2	0.2
4.3	74'-0"	76'	76'	76'	1	#4	1'-0"	16	0.2	0.2	0.2
4.4	76'-0"	78'	78'	78'	1	#4	1'-0"	16	0.2	0.2	0.2
4.5	78'-0"	80'	80'	80'	1	#4	1'-0"	16	0.2	0.2	0.2
4.6	80'-0"	82'	82'	82'	1	#4	1'-0"	16	0.2	0.2	0.2
4.7	82'-0"	84'	84'	84'	1	#4	1'-0"	16	0.2	0.2	0.2
4.8	84'-0"	86'	86'	86'	1	#4	1'-0"	16	0.2	0.2	0.2
4.9	86'-0"	88'	88'	88'	1	#4	1'-0"	16	0.2	0.2	0.2
5.0	88'-0"	90'	90'	90'	1	#4	1'-0"	16	0.2	0.2	0.2
5.1	90'-0"	92'	92'	92'	1	#4	1'-0"	16	0.2	0.2	0.2
5.2	92'-0"	94'	94'	94'	1	#4	1'-0"	16	0.2	0.2	0.2
5.3	94'-0"	96'	96'	96'	1	#4	1'-0"	16	0.2	0.2	0.2
5.4	96'-0"	98'	98'	98'	1	#4	1'-0"	16	0.2	0.2	0.2
5.5	98'-0"	100'	100'	100'	1	#4	1'-0"	16	0.2	0.2	0.2

TABLE OF CONSTANT DIMENSIONS

Bar No.	Bar Size	Bar Spacing	Bar No.	Bar Size	Bar Spacing
1	#4	1'-0"	16	#4	1'-0"
2	#4	1'-0"	17	#4	1'-0"
3	#4	1'-0"	18	#4	1'-0"
4	#4	1'-0"	19	#4	1'-0"
5	#4	1'-0"	20	#4	1'-0"
6	#4	1'-0"	21	#4	1'-0"
7	#4	1'-0"	22	#4	1'-0"
8	#4	1'-0"	23	#4	1'-0"
9	#4	1'-0"	24	#4	1'-0"
10	#4	1'-0"	25	#4	1'-0"
11	#4	1'-0"	26	#4	1'-0"
12	#4	1'-0"	27	#4	1'-0"
13	#4	1'-0"	28	#4	1'-0"
14	#4	1'-0"	29	#4	1'-0"
15	#4	1'-0"	30	#4	1'-0"
16	#4	1'-0"	31	#4	1'-0"
17	#4	1'-0"	32	#4	1'-0"
18	#4	1'-0"	33	#4	1'-0"
19	#4	1'-0"	34	#4	1'-0"
20	#4	1'-0"	35	#4	1'-0"
21	#4	1'-0"	36	#4	1'-0"
22	#4	1'-0"	37	#4	1'-0"
23	#4	1'-0"	38	#4	1'-0"
24	#4	1'-0"	39	#4	1'-0"
25	#4	1'-0"	40	#4	1'-0"
26	#4	1'-0"	41	#4	1'-0"
27	#4	1'-0"	42	#4	1'-0"
28	#4	1'-0"	43	#4	1'-0"
29	#4	1'-0"	44	#4	1'-0"
30	#4	1'-0"	45	#4	1'-0"
31	#4	1'-0"	46	#4	1'-0"
32	#4	1'-0"	47	#4	1'-0"
33	#4	1'-0"	48	#4	1'-0"
34	#4	1'-0"	49	#4	1'-0"
35	#4	1'-0"	50	#4	1'-0"
36	#4	1'-0"	51	#4	1'-0"
37	#4	1'-0"	52	#4	1'-0"
38	#4	1'-0"	53	#4	1'-0"
39	#4	1'-0"	54	#4	1'-0"
40	#4	1'-0"	55	#4	1'-0"
41	#4	1'-0"	56	#4	1'-0"
42	#4	1'-0"	57	#4	1'-0"
43	#4	1'-0"	58	#4	1'-0"
44	#4	1'-0"	59	#4	1'-0"
45	#4	1'-0"	60	#4	1'-0"
46	#4	1'-0"	61	#4	1'-0"
47	#4	1'-0"	62	#4	1'-0"
48	#4	1'-0"	63	#4	1'-0"
49	#4	1'-0"	64	#4	1'-0"
50	#4	1'-0"	65	#4	1'-0"
51	#4	1'-0"	66	#4	1'-0"
52	#4	1'-0"	67	#4	1'-0"
53	#4	1'-0"	68	#4	1'-0"
54	#4	1'-0"	69	#4	1'-0"
55	#4	1'-0"	70	#4	1'-0"
56	#4	1'-0"	71	#4	1'-0"
57	#4	1'-0"	72	#4	1'-0"

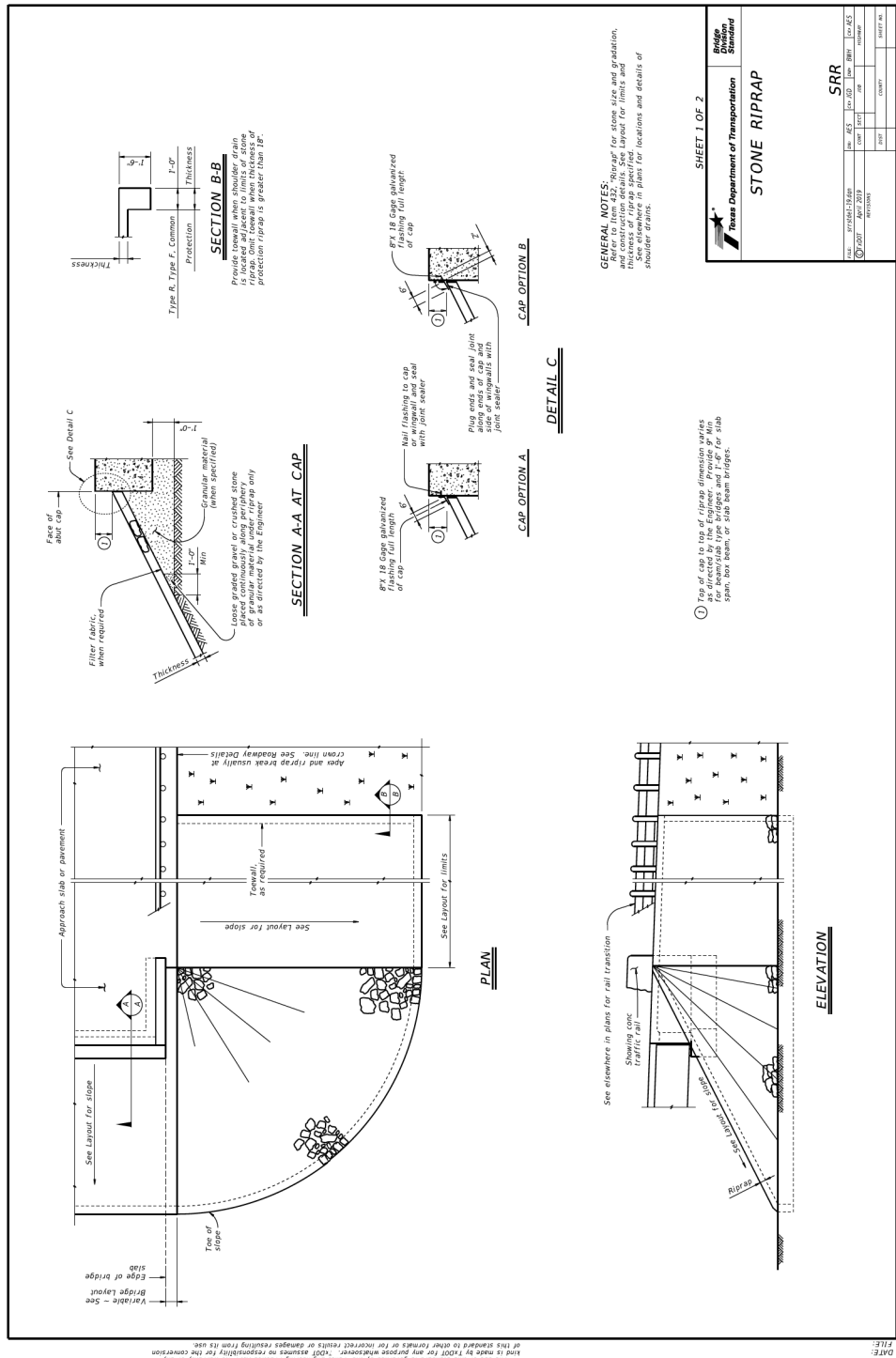
TABLE OF REINFORCING STEEL

Bar No.	Bar Size	Bar Spacing	Bar No.	Bar Size	Bar Spacing
1	#4	1'-0"	16	#4	1'-0"
2	#4	1'-0"	17	#4	1'-0"
3	#4	1'-0"	18	#4	1'-0"
4	#4	1'-0"	19	#4	1'-0"
5	#4	1'-0"	20	#4	1'-0"
6	#4	1'-0"	21	#4	1'-0"
7	#4	1'-0"	22	#4	1'-0"
8	#4	1'-0"	23	#4	1'-0"
9	#4	1'-0"	24	#4	1'-0"
10	#4	1'-0"	25	#4	1'-0"
11	#4	1'-0"	26	#4	1'-0"
12	#4	1'-0"	27	#4	1'-0"
13	#4	1'-0"	28	#4	1'-0"
14	#4	1'-0"	29	#4	1'-0"
15	#4	1'-0"	30	#4	1'-0"
16	#4	1'-0"	31	#4	1'-0"
17	#4	1'-0"	32	#4	1'-0"
18	#4	1'-0"	33	#4	1'-0"
19	#4	1'-0"	34	#4	1'-0"
20	#4	1'-0"	35	#4	1'-0"
21	#4	1'-0"	36	#4	1'-0"
22	#4	1'-0"	37	#4	1'-0"
23	#4	1'-0"	38	#4	1'-0"
24	#4	1'-0"	39	#4	1'-0"
25	#4	1'-0"	40	#4	1'-0"
26	#4	1'-0"	41	#4	1'-0"
27	#4	1'-0"	42	#4	1'-0"
28	#4	1'-0"	43	#4	1'-0"
29	#4	1'-0"	44	#4	1'-0"
30	#4	1'-0"	45	#4	1'-0"
31	#4	1'-0"	46	#4	1'-0"
32	#4	1'-0"	47	#4	1'-0"
33	#4	1'-0"	48	#4	1'-0"
34	#4	1'-0"	49	#4	1'-0"
35	#4	1'-0"	50	#4	1'-0"
36	#4	1'-0"	51	#4	1'-0"
37	#4	1'-0"	52	#4	1'-0"
38	#4	1'-0"	53	#4	1'-0"
39	#4	1'-0"	54	#4	1'-0"
40	#4	1'-0"	55	#4	1'-0"
41	#4	1'-0"	56	#4	1'-0"
42	#4	1'-0"	57	#4	1'-0"
43	#4	1'-0"	58	#4	1'-0"
44	#4	1'-0"	59	#4	1'-0"
45	#4	1'-0"	60	#4	1'-0"
46	#4	1'-0"	61	#4	1'-0"
47	#4	1'-0"	62	#4	1'-0"
48	#4	1'-0"	63	#4	1'-0"
49	#4	1'-0"	64	#4	1'-0"
50	#4	1'-0"	65	#4	1'-0"
51	#4	1'-0"	66	#4	1'-0"
52	#4	1'-0"	67	#4	1'-0"
53	#4	1'-0"	68	#4	1'-0"
54	#4	1'-0"	69	#4	1'-0"
55	#4	1'-0"	70	#4	1'-0"
56	#4	1'-0"	71	#4	1'-0"
57	#4	1'-0"	72	#4	1'-0"



SECTION AT CENTER OF PIPE

1 Total quantities include one 3'-1" lap for bars over 60' in length.
2 For concrete pipe, steel will increase slightly for metal pipe multiplication of pipe or pipes.
3 Indicated slope is perpendicular to centerline of pipe or pipes.
4 For vehicle safety, construct curbs to meet heights, if necessary, to meet these quantities and no additional compensation will be allowed for this work.
5 Dimensions shown are usual and maximum.
6 Dimensions shown are



SHEET 1 OF 2

STONE RIPRAP

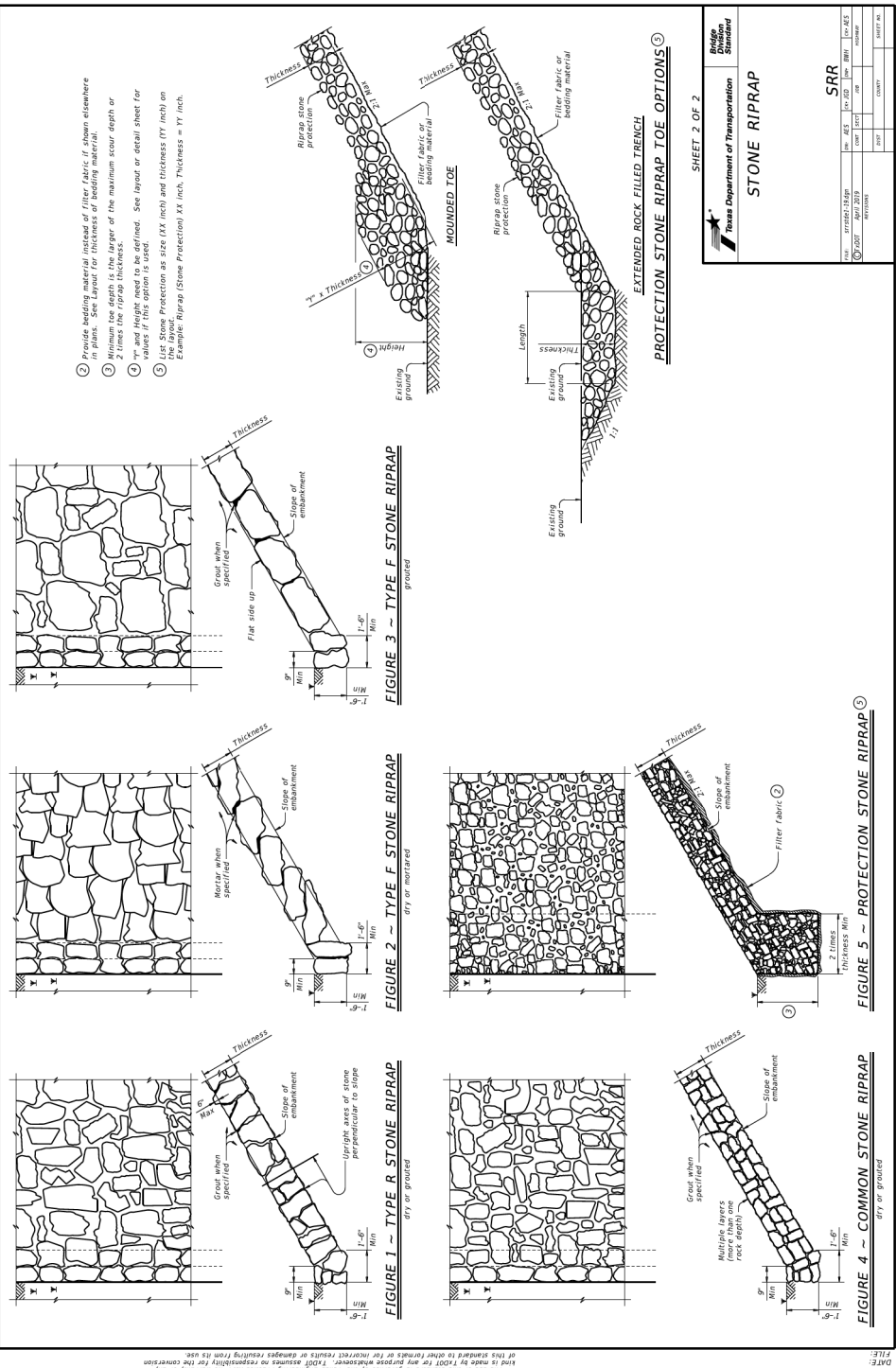
Texas Department of Transportation
 Bridge Division
 Standard

DATE	REVISED	BY	CHKD	APP'D
07/2007	07/2019	WJ	WJ	WJ
07/2007	07/2019	WJ	WJ	WJ
07/2007	07/2019	WJ	WJ	WJ
07/2007	07/2019	WJ	WJ	WJ

SRR

GENERAL NOTES:
 1. Provide "stone" riprap for stone size and gradation, and construction details. See layout for limits and locations. See elsewhere in plans for locations and details of shoulder drains.

1. Top of cap to top of riprap dimension varies for beam/slab type bridge and 1'-6" for slab spans, two levels of slab beam bridges.



SHEET 2 OF 2

STONE RIPRAP

Texas Department of Transportation
 Bridge Division
 Standard

DATE	REVISED	BY	CHKD	APP'D
07/2007	07/2019	WJ	WJ	WJ
07/2007	07/2019	WJ	WJ	WJ
07/2007	07/2019	WJ	WJ	WJ
07/2007	07/2019	WJ	WJ	WJ

SRR

GENERAL NOTES:
 1. Provide bedding material instead of filter fabric if shown elsewhere in plans. See layout for thickness of bedding material.
 2. Riprap stone protection shall be placed in a minimum of 2 times the riprap thickness greater of the maximum scour depth or 2'-0" and height need to be defined. See layout or detail sheet for values if this option is used.
 3. Use Stone Protection as size (XX inch) and thickness (YY inch) on Example Riprap (Stone Protection) XX inch, Thickness = YY inch.

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Thammir M. Weaver, P.E. 138236 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034. TBEELS Engineering Firm #312

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) 392-8296
 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 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
---	---	---

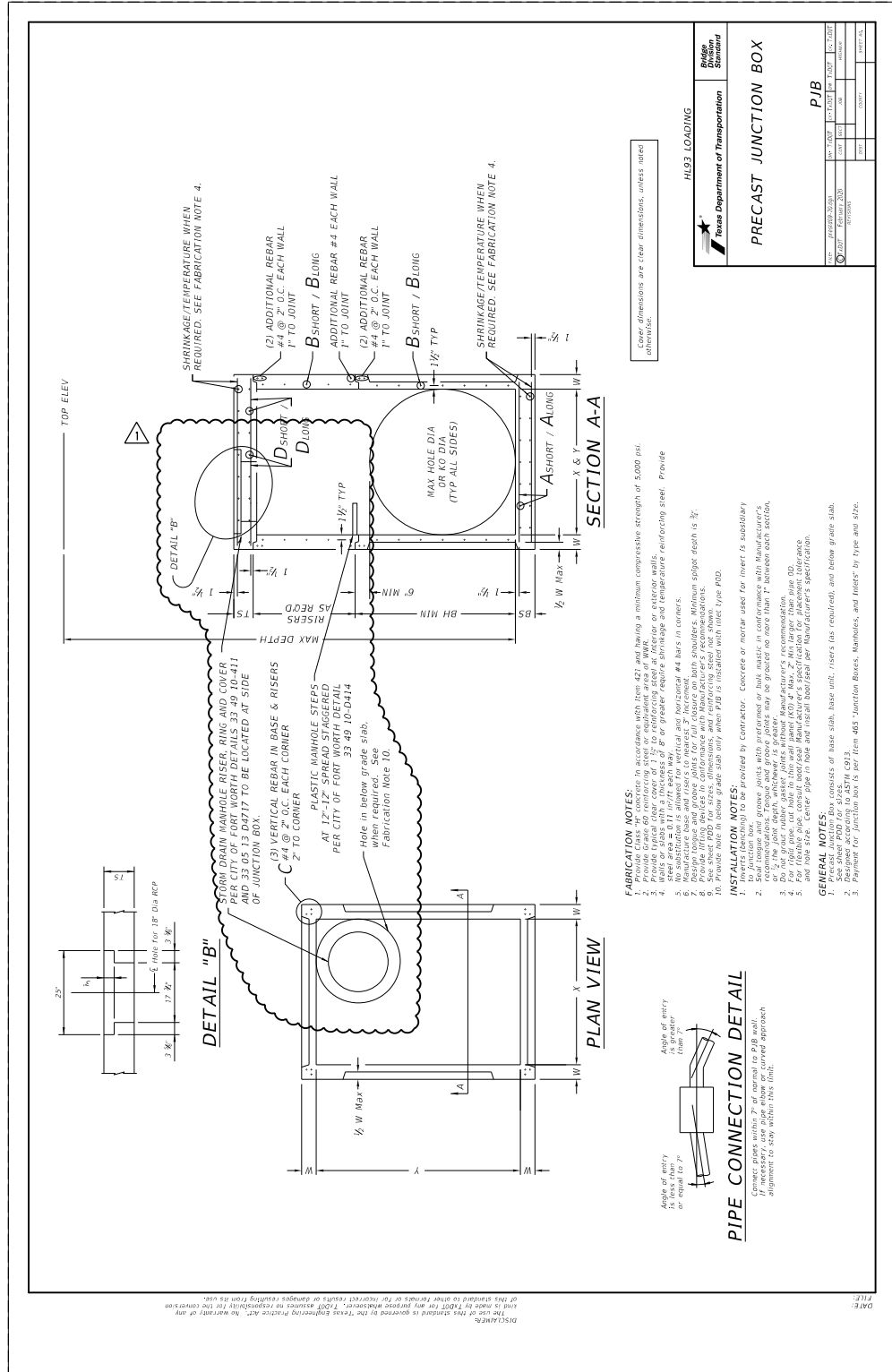
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

**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 10 OF 11)**

DESIGNED: TMW	SCALE:	DATE:	SHEET
DRAWN: PTS	N.T.S.	06/08/2021	117 OF 189



FABRICATION NOTES:
 1. Provide concrete retaining steel reinforcement in slab and base.
 2. Walls or slabs with a thickness of 8" or greater require shrinkage and temperature reinforcing steel. Provide 1/2" diameter bars at 18" o.c. in walls and 12" o.c. in slabs.
 3. No substitution is allowed for vertical and horizontal #4 bars in corners.
 4. Design top and bottom reinforcement and provide details for all reinforcement.
 5. Provide note in below grade slab only when P/B is installed with inlet type PDD.
INSTALLATION NOTES:
 1. Junction box to be installed by contractor. Concrete or mortar used for lower fit subsidiary recommendations, regrade and groove jobs may be greater no more than 1" between each section.
 2. Do not pour water jacket joints without manufacturer's recommendation.
 3. For (1) to (3) above, consult manufacturer's specifications for placement, tolerance and joint size. Center pipe in hole and install in accordance with manufacturer's specification.
GENERAL NOTES:
 1. This consists of base slab, base unit, risers (as required), and below grade slab.
 2. See sheet PDD for details.
 3. Payment for Junction Box is per Item 465 Junction Boxes, Manholes, and Inlets by Type and Size.

Prest. Base (P/B)	MAX DEPTH = 12 FT. TO 100 FT. BASE SLAB										MAX DEPTH = 25 FT. TO TOP OF BASE SLAB									
	Long Span Area	Short Span Area	Along	BS	Along	BS	Along	BS	Along	BS	Along	BS	Along	BS	Along	BS	Along	BS	Along	BS
10	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
12	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
14	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
16	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
18	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
20	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
22	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
24	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
26	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
28	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
30	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
32	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
34	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
36	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
38	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
40	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
42	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
44	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
46	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
48	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
50	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
52	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
54	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
56	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
58	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
60	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
62	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
64	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
66	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
68	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
70	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
72	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27

FABRICATION NOTES:
 1. Reinforcement is 6".
 2. At manufacturer's option, provide cast or cured joints or thin wall joints (6") to the exterior of the wall. If reinforcement is required, it is acceptable to provide a wall with no sectional reduction.
GENERAL NOTES:
 1. This consists of base slab, base unit, risers (as required), and below grade slab.
 2. See sheet P/B for details.
 3. Smaller height base units can be used in special installation circumstances, when noted elsewhere in the plans. Absolute minimum height of base unit is 2'-6".

REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		

HALFF
 TYPE FIRM #F-312
 3803 PARKWOOD BLVD., STE 800
 FORT WORTH, TEXAS 76104-8640
 (214) 217-8994

THAMM M. WEAVER
 LICENSED PROFESSIONAL ENGINEER
 138236

1 REVISION TO MATCH CITY OF FORT WORTH MANHOLE RISER AND STEPS

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) 392-8296
 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 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 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

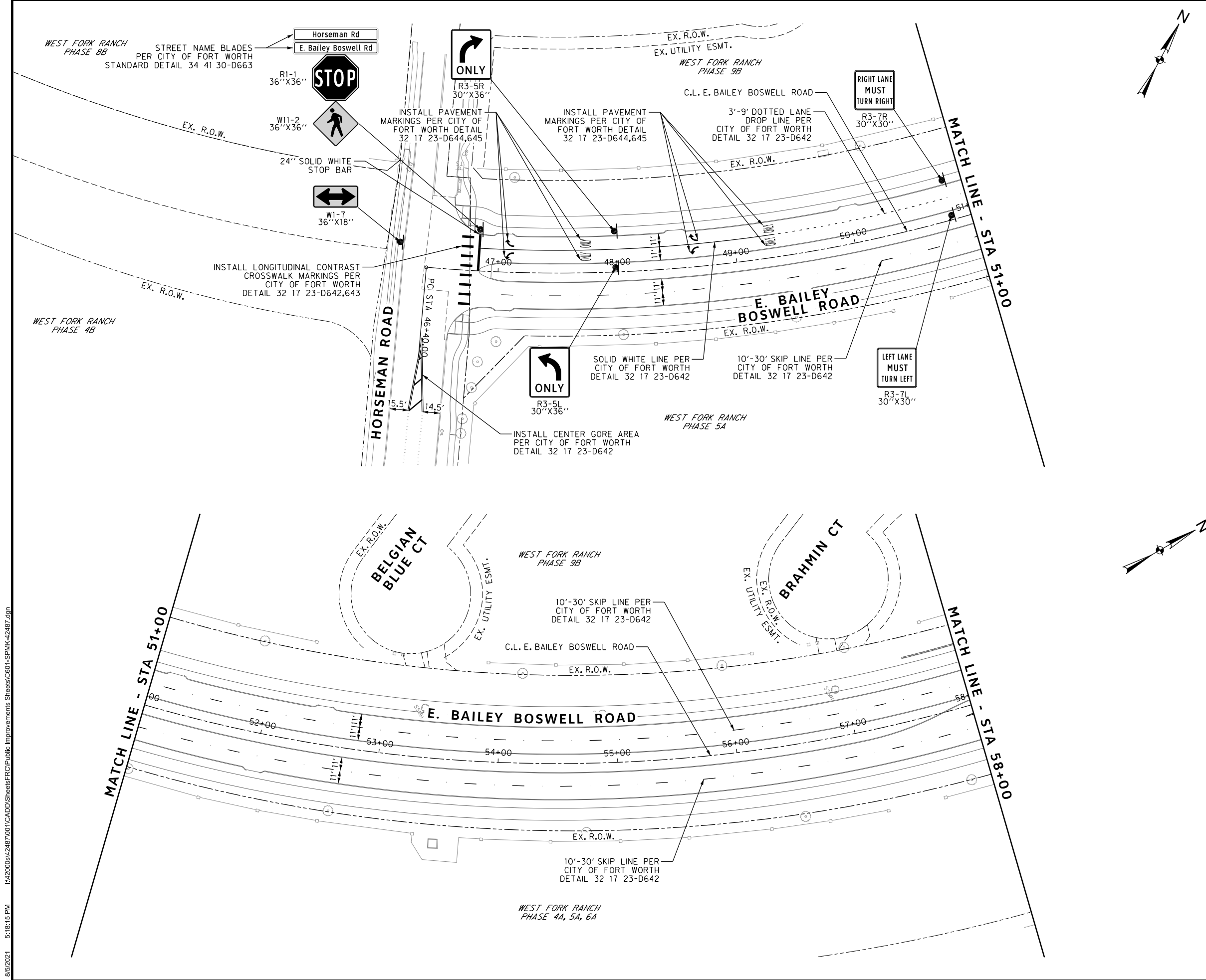
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

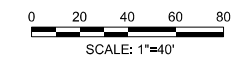
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
STORM DRAIN DETAILS
 (SHEET 11 OF 11)

DESIGNED: TMW	SCALE:	DATE:	SHEET
DRAWN: PTS	N.T.S.	06/08/2021	118 OF 189

8/5/2021 5:18:11 PM C560-DTSD-42487.dwg



REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



SPMK LEGEND

- PROPOSED SIGN
- PROPOSED DELINEATOR

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



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104, TBPELS Engineering Firm #312

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) 392-8296
- 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-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
 PAVEMENT MARKINGS & SIGNAGE BEGIN TO STA 58+00**

PLAN

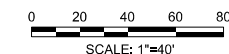
DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 119 OF 189
DRAWN: PTS			

8/5/2021 5:18:15 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C601-SPMK-42487.dgn

8/5/2021 5:18:16 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C602-SPMK-42487.dgn

REVISIONS

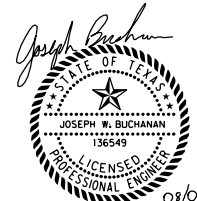
NO.	DESCRIPTION	DATE
1		
2		
3		



SPMK LEGEND

- PROPOSED SIGN
- PROPOSED DELINEATOR

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



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBPELS Engineering Firm #312

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) 392-8296
- 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

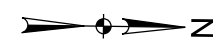
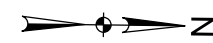
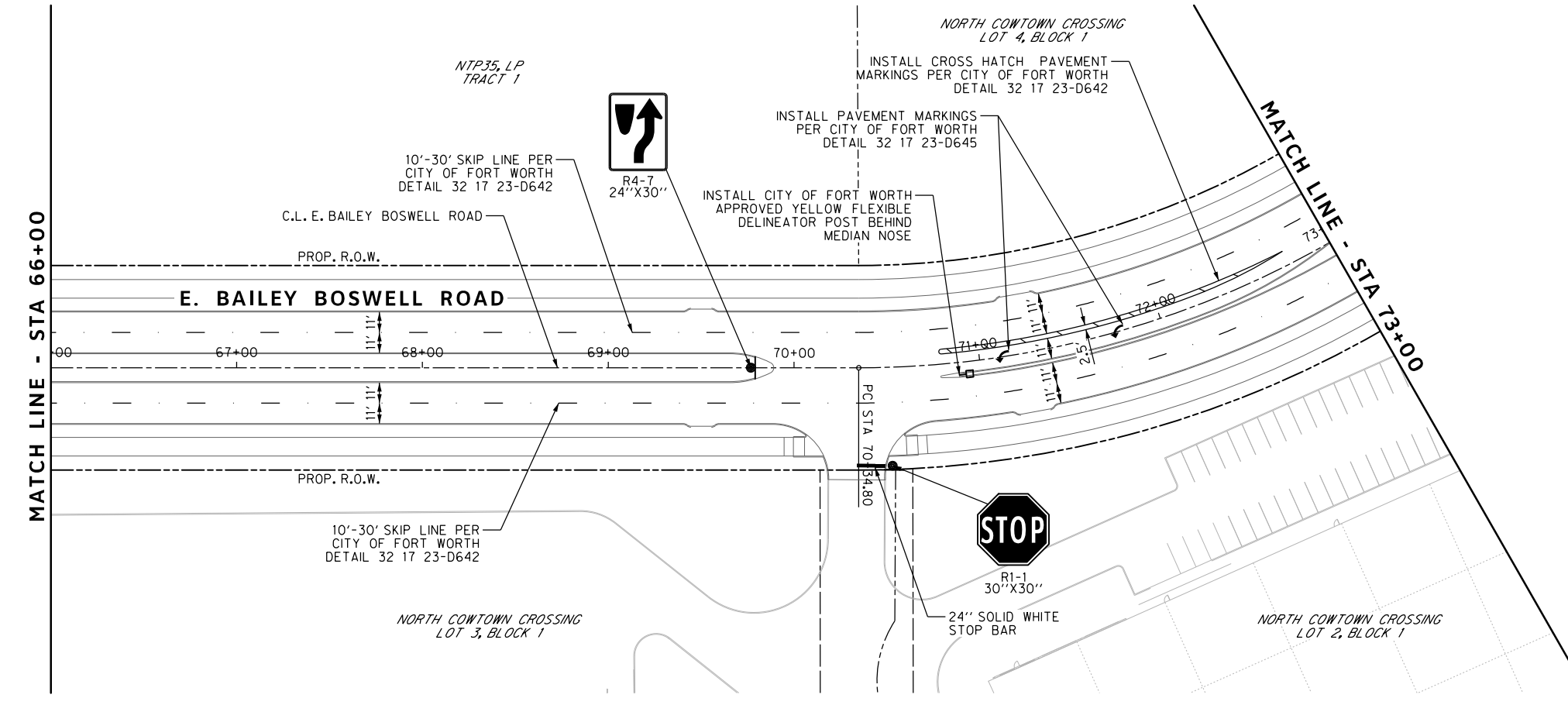
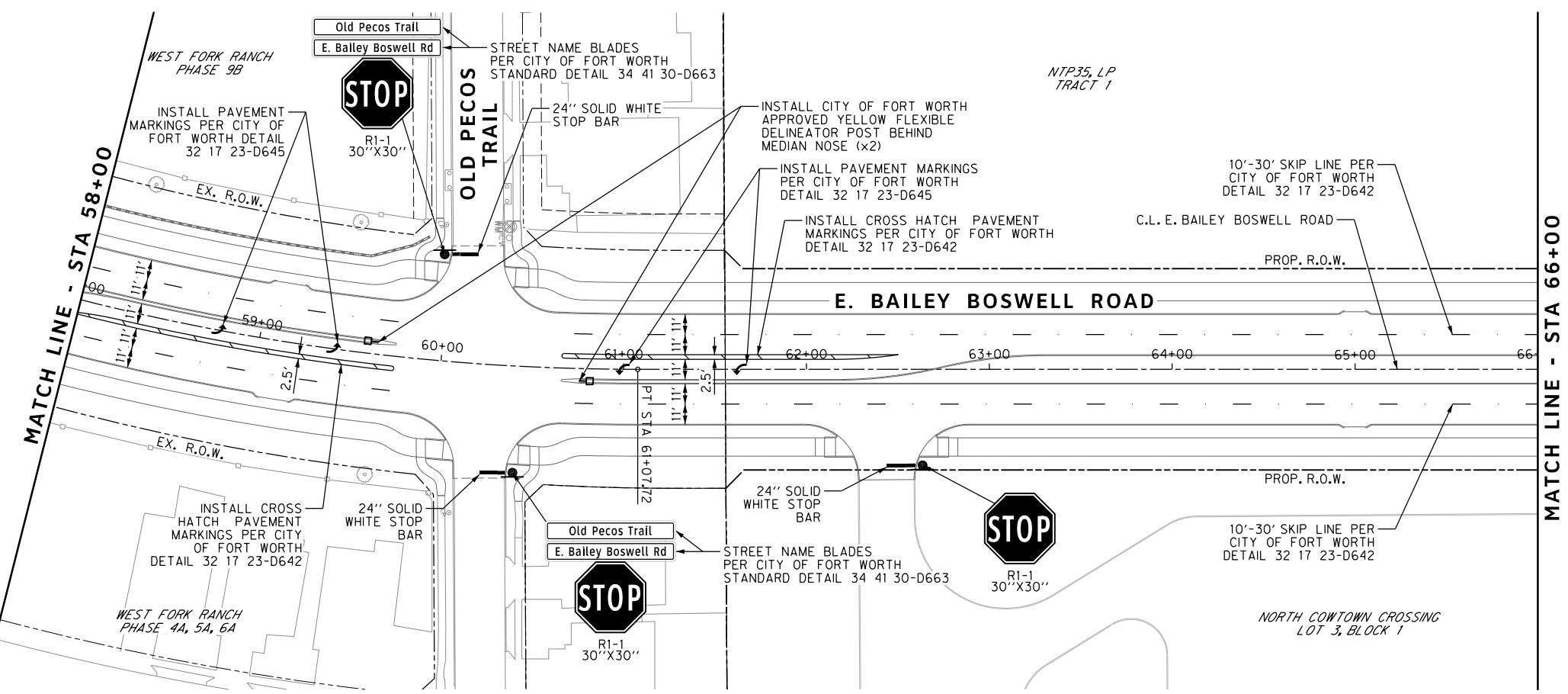
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
PAVEMENT MARKINGS & SIGNAGE
 STA 58+00 TO STA 73+00

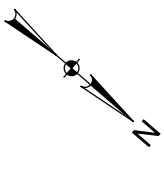
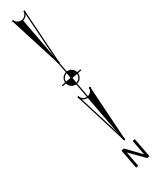
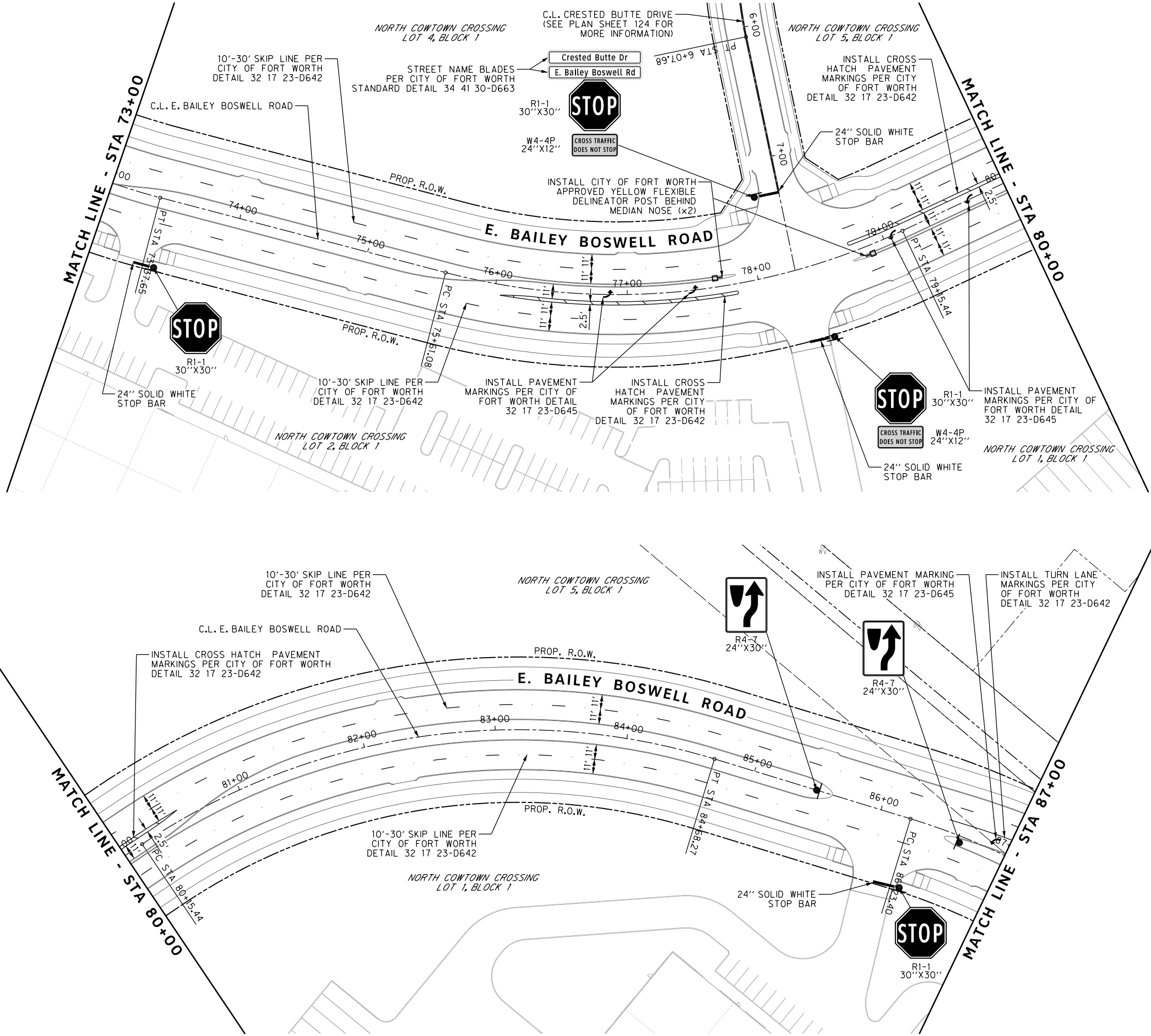
PLAN

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

8/5/2021 5:18:16 PM C602-SPMK-42487.dgn

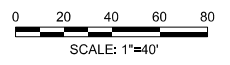


8/5/2021 5:18:16 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C603-SPMK-42487.dgn



REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



SPMK LEGEND

- PROPOSED SIGN
- PROPOSED DELINEATOR

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



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) 392-8296
 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' 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-XXXXXXXXXX	
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXX	
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXX	
MAP NO. XXXX-XXX	

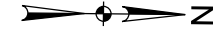
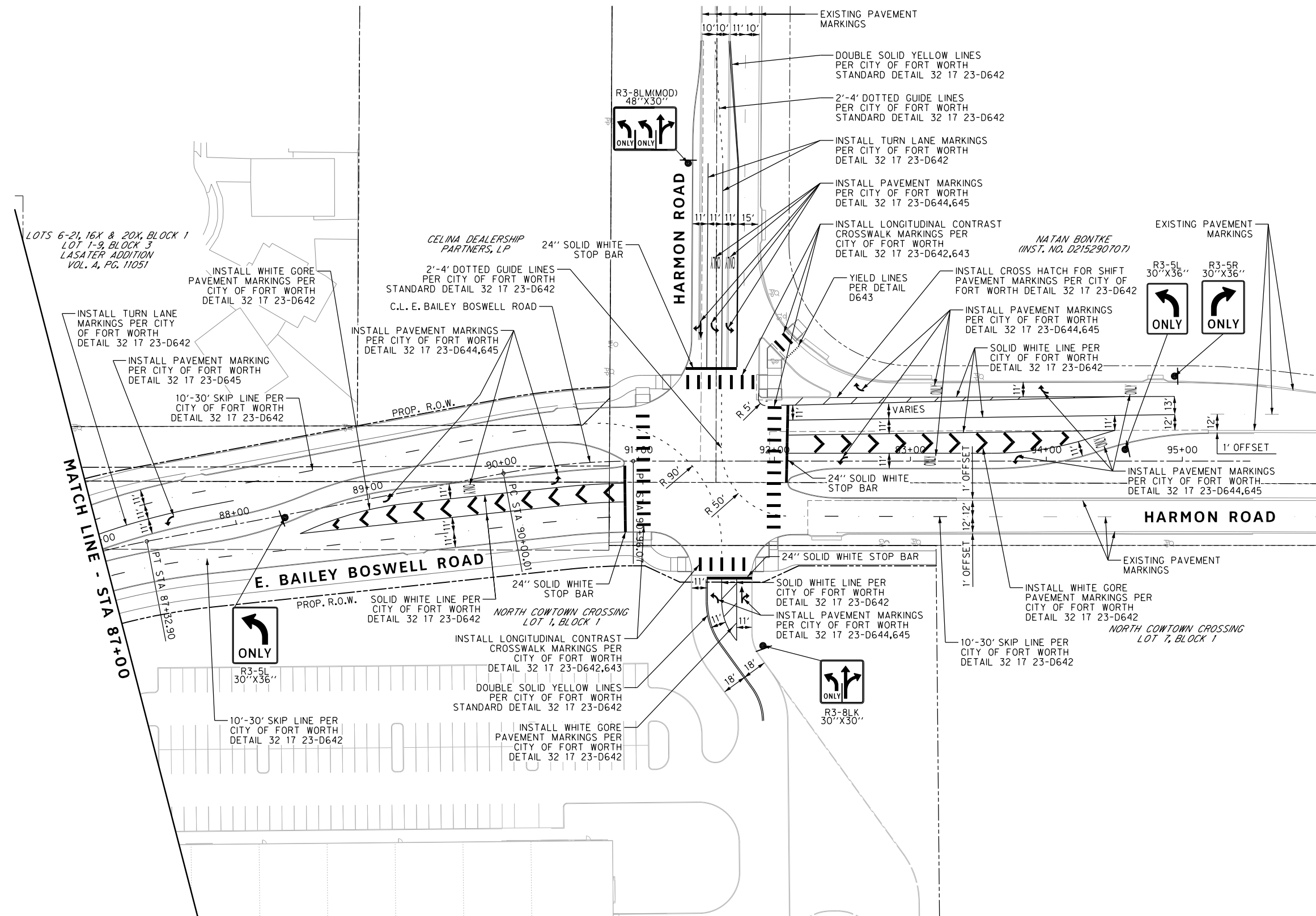
**CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES**
**TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER**

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

PLAN

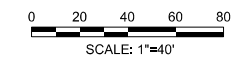
DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 121 OF 189
DRAWN: PTS			

8/5/2021 5:18:17 PM I:\202008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C604-SPMK-42487.dgn



REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



SPMK LEGEND

- PROPOSED SIGN
- PROPOSED DELINEATOR

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



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBPELS Engineering Firm #312.

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) 392-8296
 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

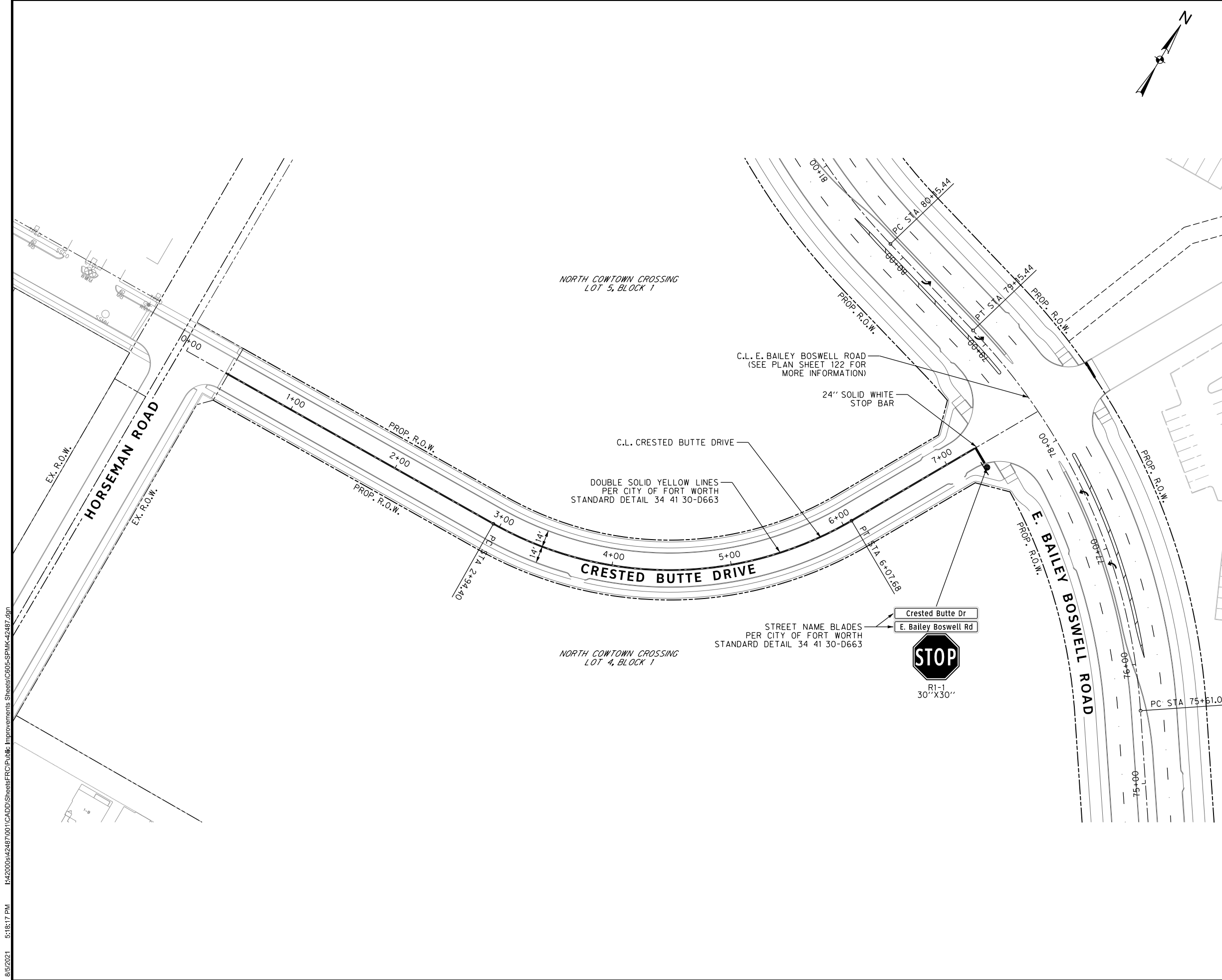
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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

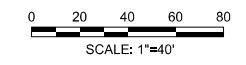
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
PAVEMENT MARKINGS & SIGNAGE
 STA 87+00 TO END

PLAN

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



REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



SPMK LEGEND

- PROPOSED SIGN
- PROPOSED DELINEATOR

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



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TSP/E/S Engineering Firm #312

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) 392-8296
 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

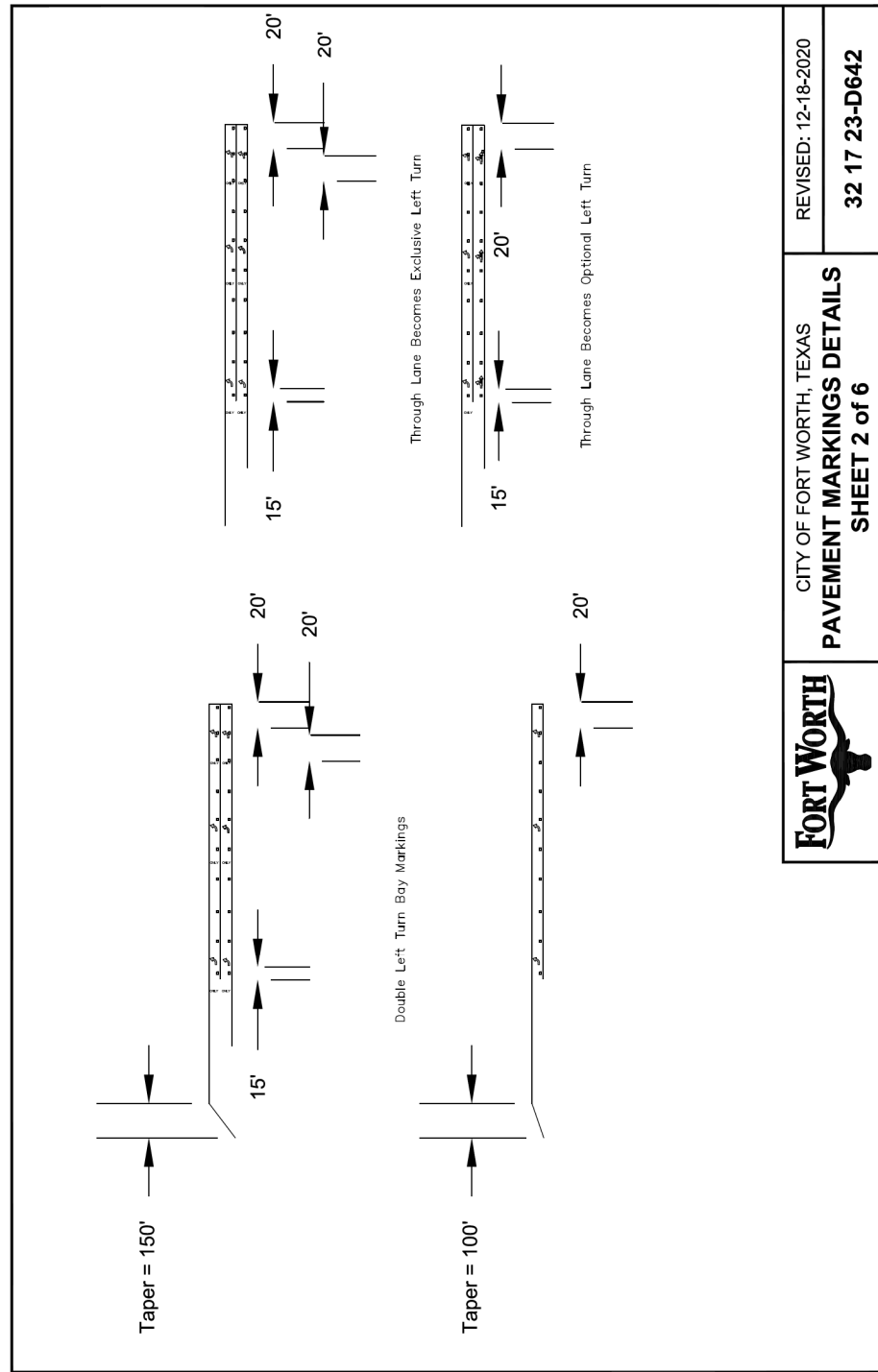
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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
PAVEMENT MARKINGS & SIGNAGE
 CRESTED BUTTE DRIVE

PLAN

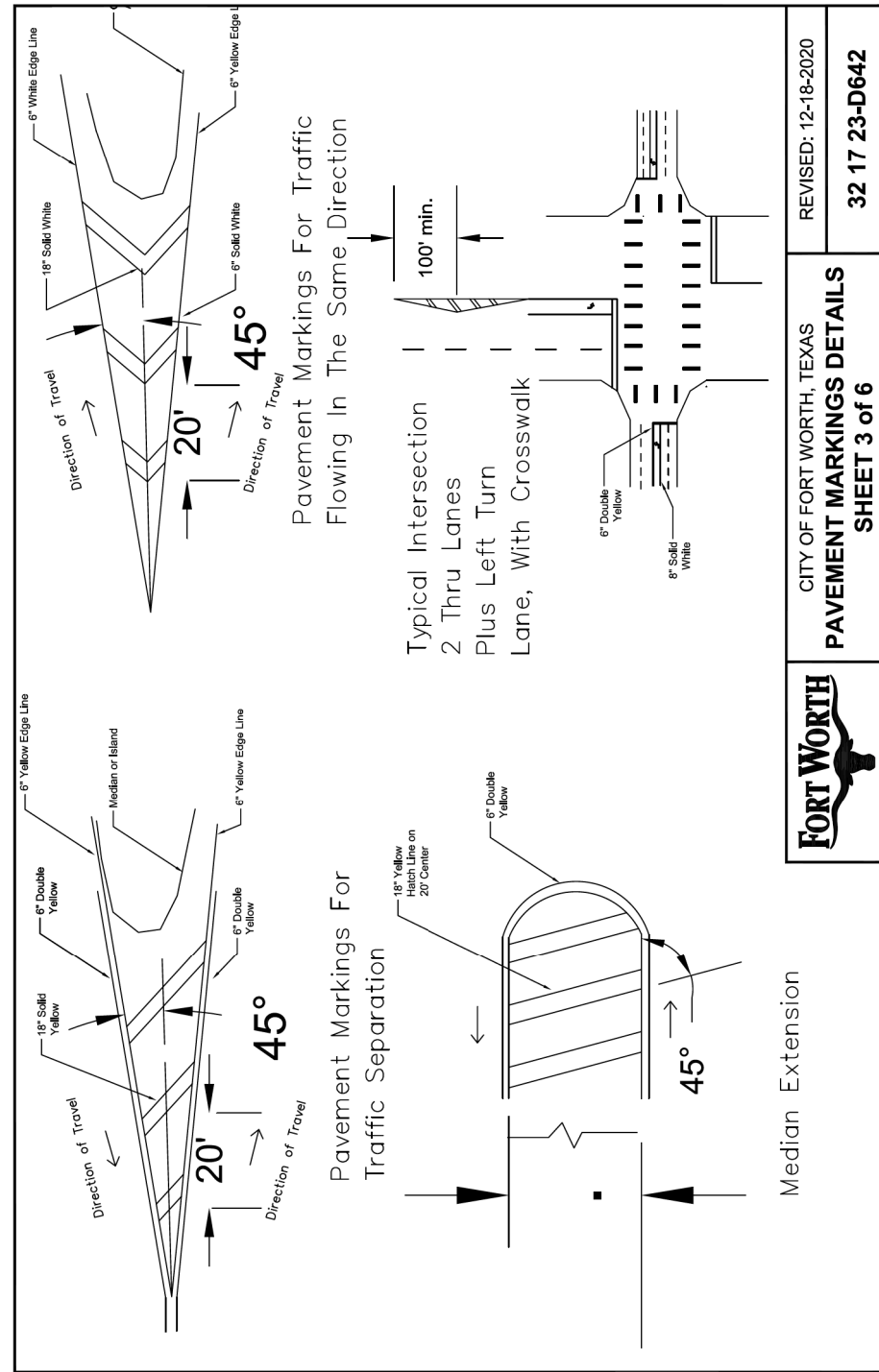
DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 123 OF 189
DRAWN: PTS			

8/5/2021 5:18:17 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C605-SPMK-42487.dgn



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

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



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

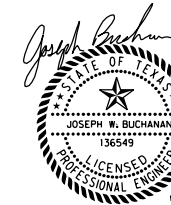
REVISED: 12-18-2020
32 17 23-D642

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



3803 PARKWOOD BLVD., STE 800
FRISCO, TEXAS 75034-8640
(214) 217-8994



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBPELS Engineering Firm #312

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) 392-8296
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' 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

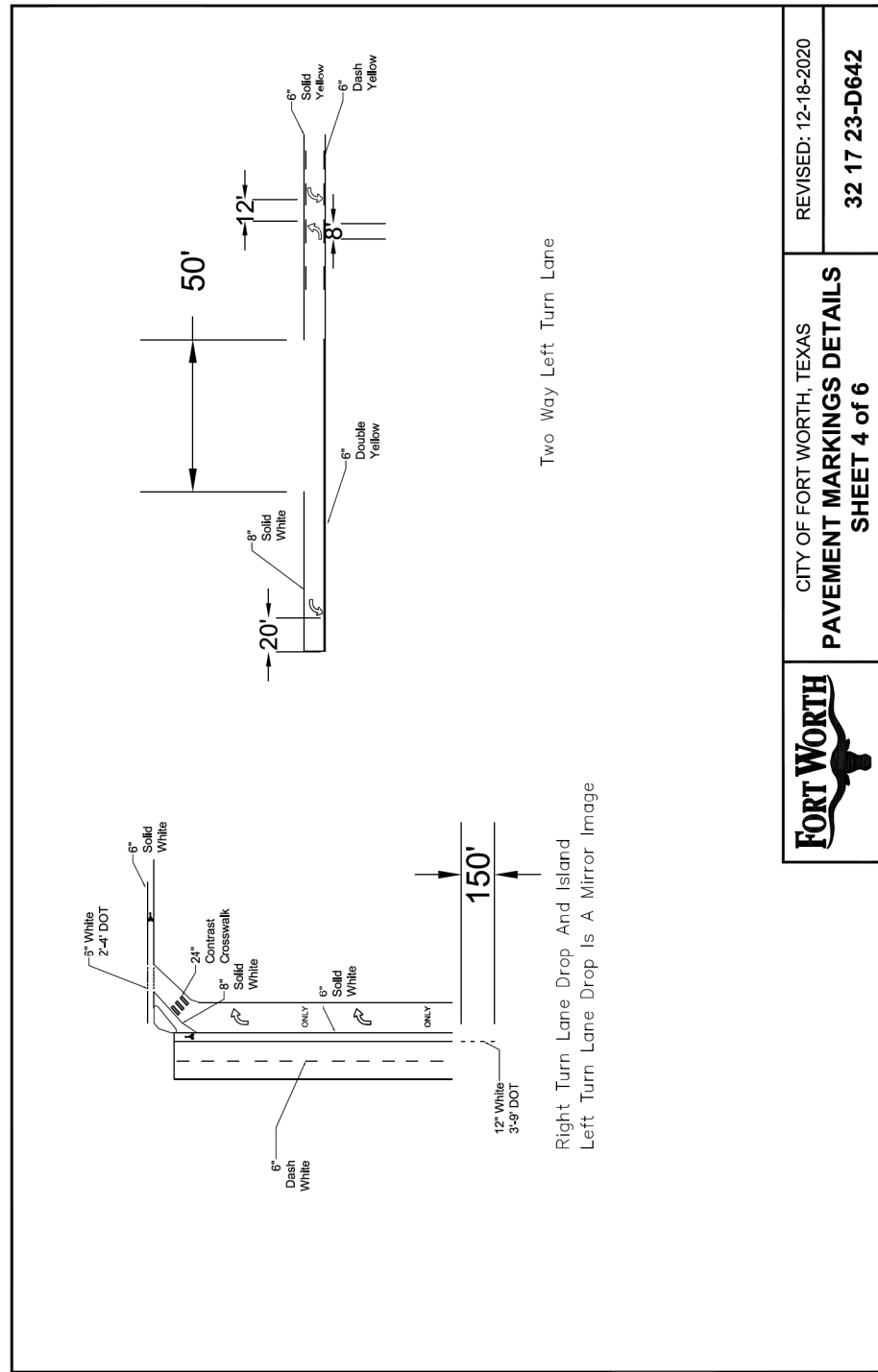
DOE # K-2840
CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

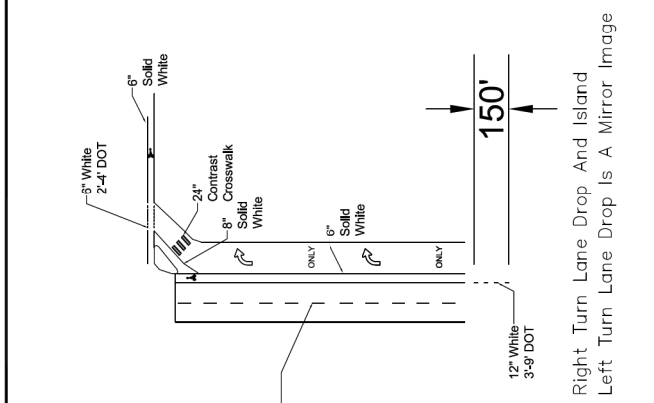
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

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

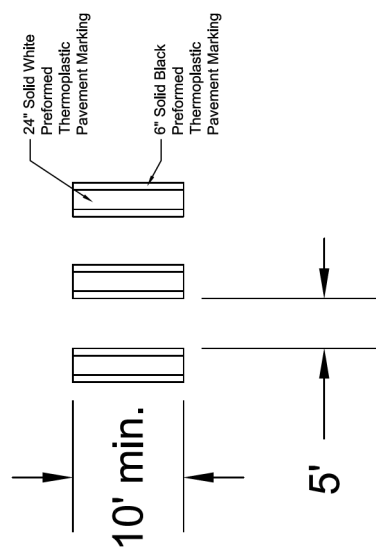
DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 125 OF 189
DRAWN: PTS			



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
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBPELS Engineering Firm #312

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) 392-8296
 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' 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

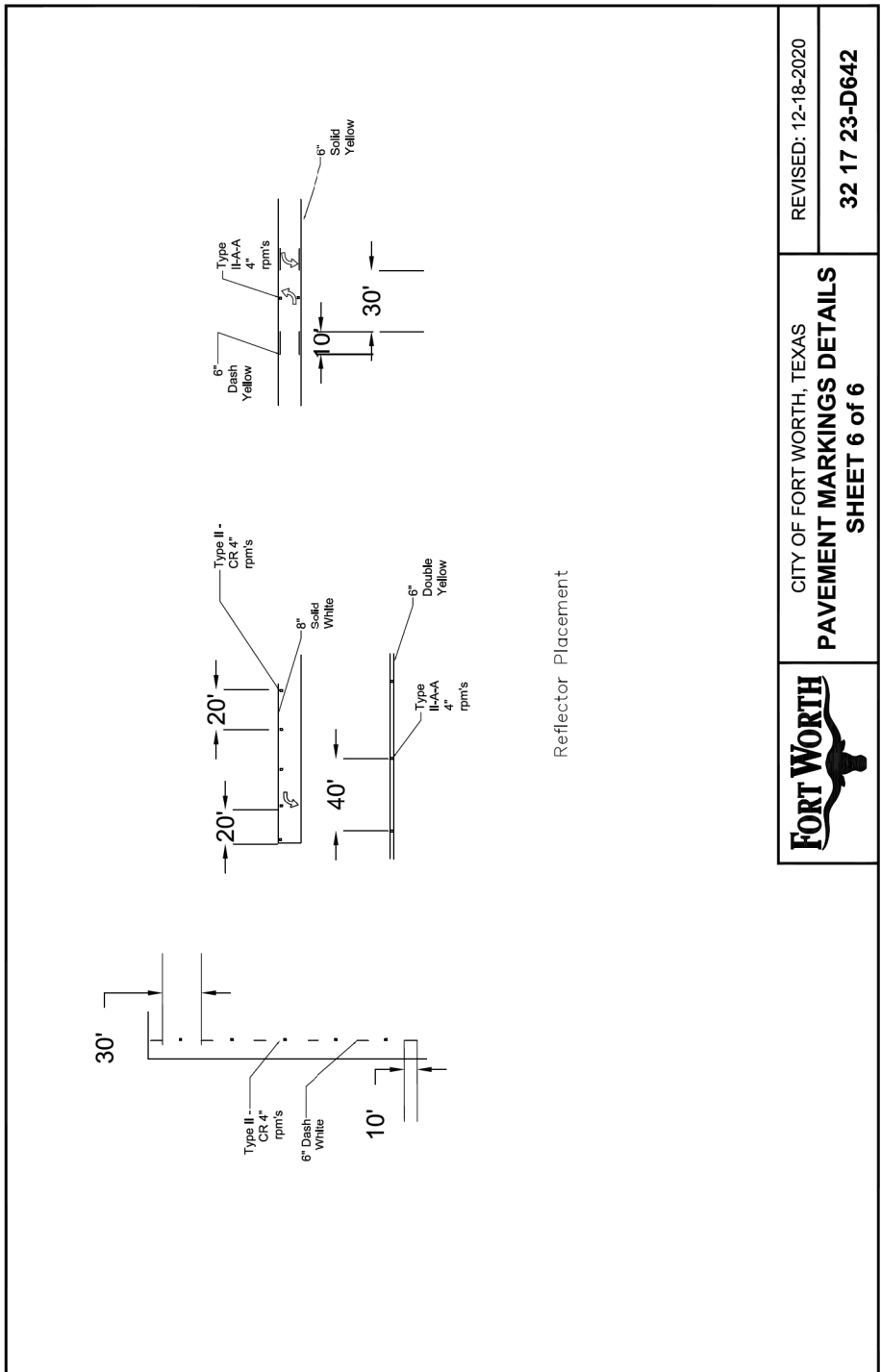
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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
PAVEMENT MARKING DETAILS
(SHEET 3 OF 6)

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



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

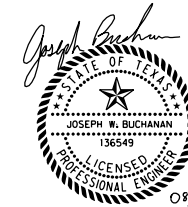
REVISED: 12-18-2020
32 17 23-D642

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



3803 PARKWOOD BLVD., STE 800
FRISSCO, TEXAS 75034-8640
(214) 217-8994



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBEELS Engineering Firm #312

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) 392-8296
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

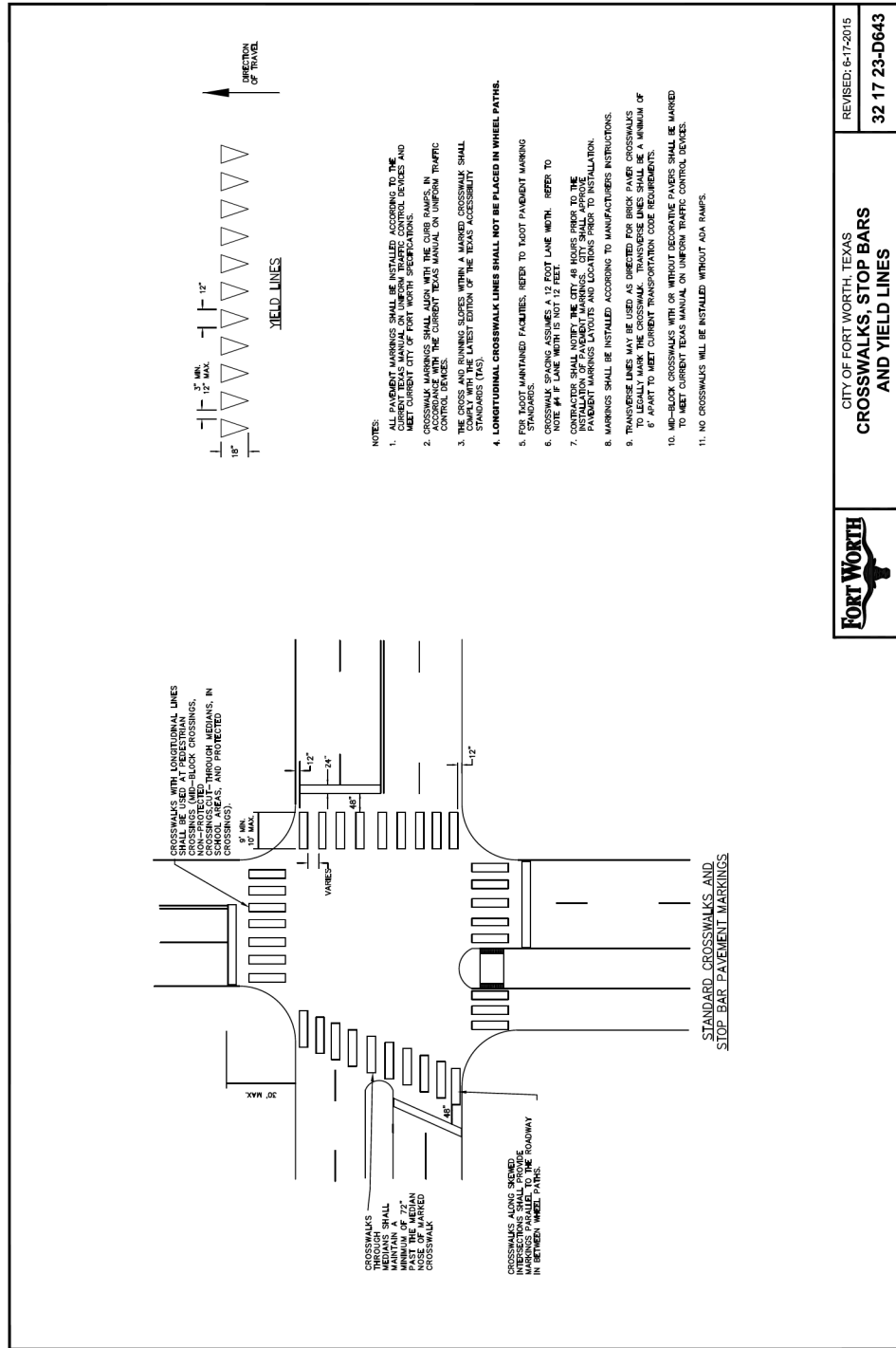
DOE # K-2840
CITY PROJECT # 103320 MAPSCO NO.
TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXX 119E AND 119F
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

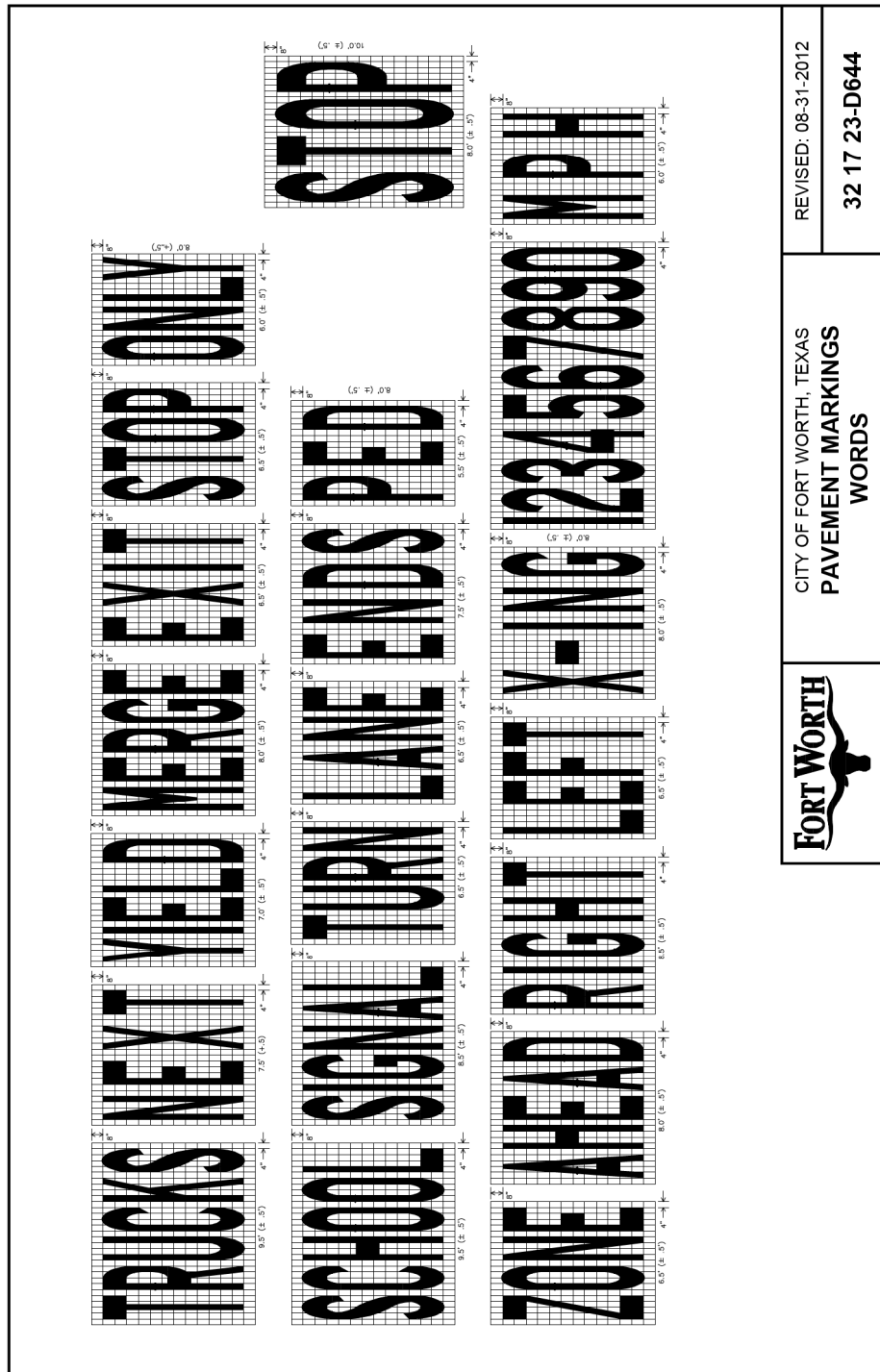
EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
PAVEMENT MARKING DETAILS
(SHEET 4 OF 6)

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



- NOTES:**
- UNIFORM TRAFFIC CONTROL DEVICES SHALL BE INSTALLED ACCORDING TO THE CURRENT TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND MEET CURRENT CITY OF FORT WORTH SPECIFICATIONS.
 - CROSSWALK MARKINGS SHALL ALSO BE INSTALLED AT ALL UNIFORM TRAFFIC CONTROL DEVICES. UNIFORM TRAFFIC CONTROL DEVICES SHALL BE INSTALLED AT ALL UNIFORM TRAFFIC CONTROL DEVICES.
 - THE CROSS AND RUNNING SIDES WITHIN A MARKED CROSSWALK SHALL BE INSTALLED AT ALL UNIFORM TRAFFIC CONTROL DEVICES. UNIFORM TRAFFIC CONTROL DEVICES SHALL BE INSTALLED AT ALL UNIFORM TRAFFIC CONTROL DEVICES.
 - LONGITUDINAL CROSSWALK LINES SHALL NOT BE PLACED IN WHEEL PATHS.**
 - STANDARD MAINTAINED FACILITIES. REFER TO TxDOT PAVEMENT MARKING MANUAL FOR MORE INFORMATION.
 - CROSSWALK SPACING ASSUMES A 12 FOOT LANE WIDTH. REFER TO THE CURRENT TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR MORE INFORMATION.
 - CONTRACTOR SHALL NOTIFY THE CITY 48 HOURS PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS LAYOUTS AND LOCATIONS PRIOR TO INSTALLATION.
 - MARKINGS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
 - TRANSVERSE LINES MAY BE USED AS A SUBSTITUTE FOR LONGITUDINAL LINES TO LEGALLY MARK THE CROSSWALK. TRANSVERSE LINES SHALL BE A MINIMUM OF 6" APART TO MEET CURRENT TRANSPORTATION CODE REQUIREMENTS.
 - MB-BLOCK CROSSWALKS WITH OR WITHOUT DECORATIVE PAVERS SHALL BE MARKED TO MEET CURRENT TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 - NO CROSSWALKS WILL BE INSTALLED WITHOUT ADA RAMP.

FORT WORTH
CITY OF FORT WORTH, TEXAS
CROSSWALKS, STOP BARS AND YIELD LINES
REVISED: 6-17-2015
32 17 23-D643



FORT WORTH
CITY OF FORT WORTH, TEXAS
PAVEMENT MARKINGS WORDS
REVISED: 08-31-2012
32 17 23-D644



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBEELS Engineering Firm #312.

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) 392-8296
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

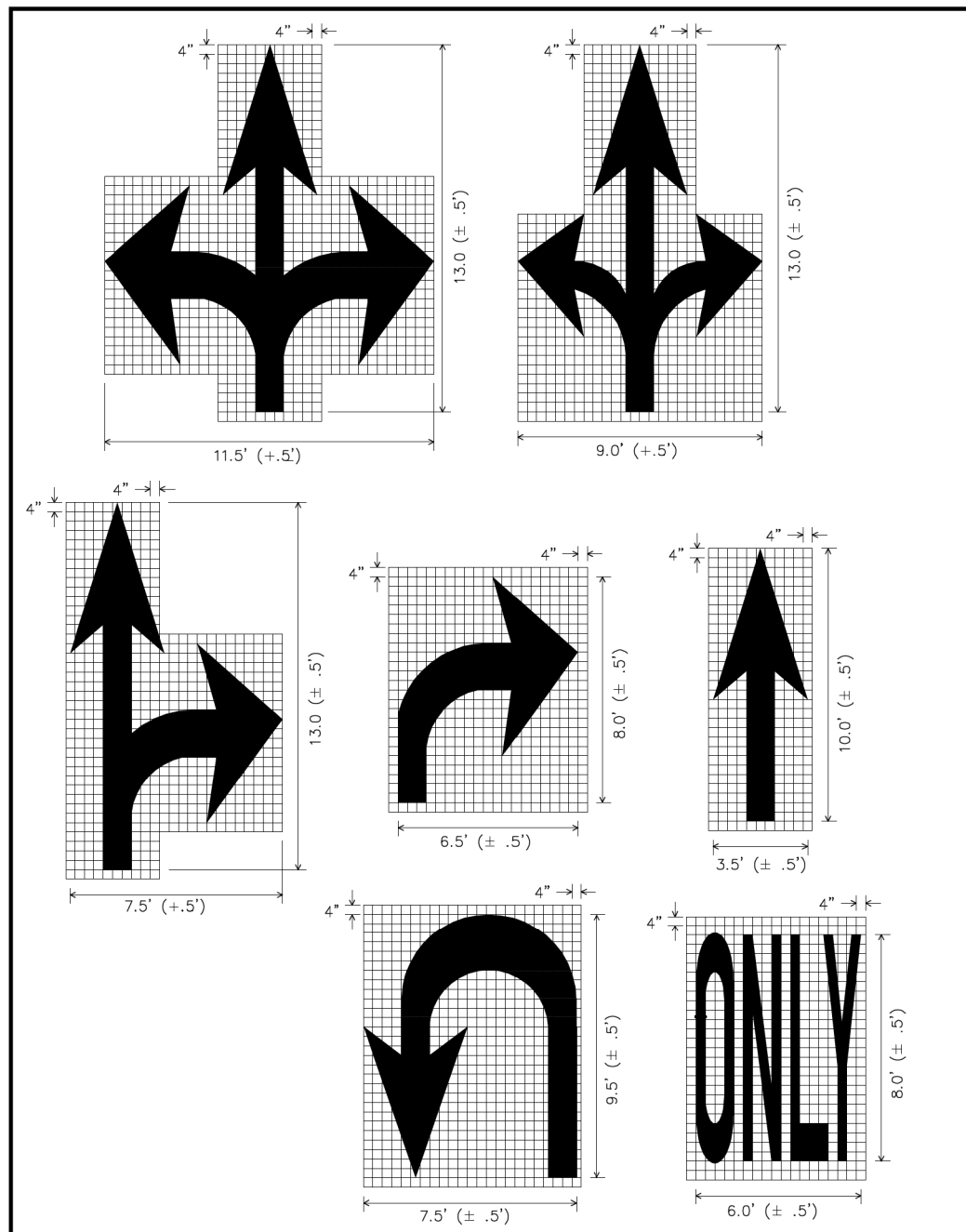
CONTROL POINT #105 SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	CONTROL POINT #109 SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	CONTROL POINT #314 SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97
---	---	---

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

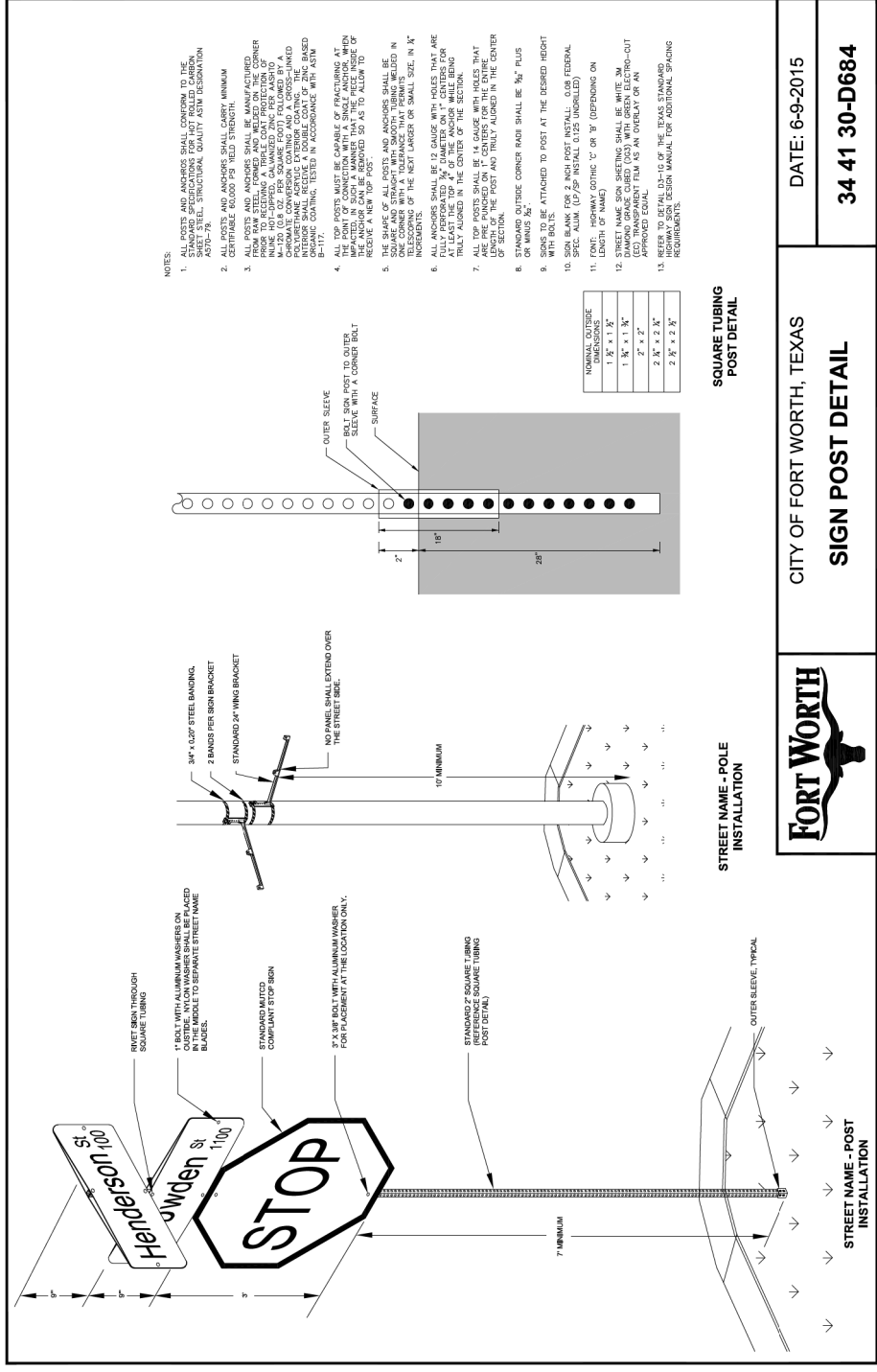
CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES
TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
PAVEMENT MARKING DETAILS
(SHEET 5 OF 6)

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 128 OF 189
DRAWN: PTS			



	CITY OF FORT WORTH, TEXAS PAVEMENT MARKINGS - ARROWS	REVISED: 08-31-2012
		32 17 23-D645



	CITY OF FORT WORTH, TEXAS SIGN POST DETAIL	DATE: 6-9-2015 34 41 30-D684
--	--	--

REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		

TBPE FIRM #F-312
 3803 PARKWOOD BLVD., STE 800
 FORT WORTH, TEXAS 76104-8640
 (214) 217-8994

The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Ft. Worth, Texas 76104, TBPEIS Engineering Firm #312

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.

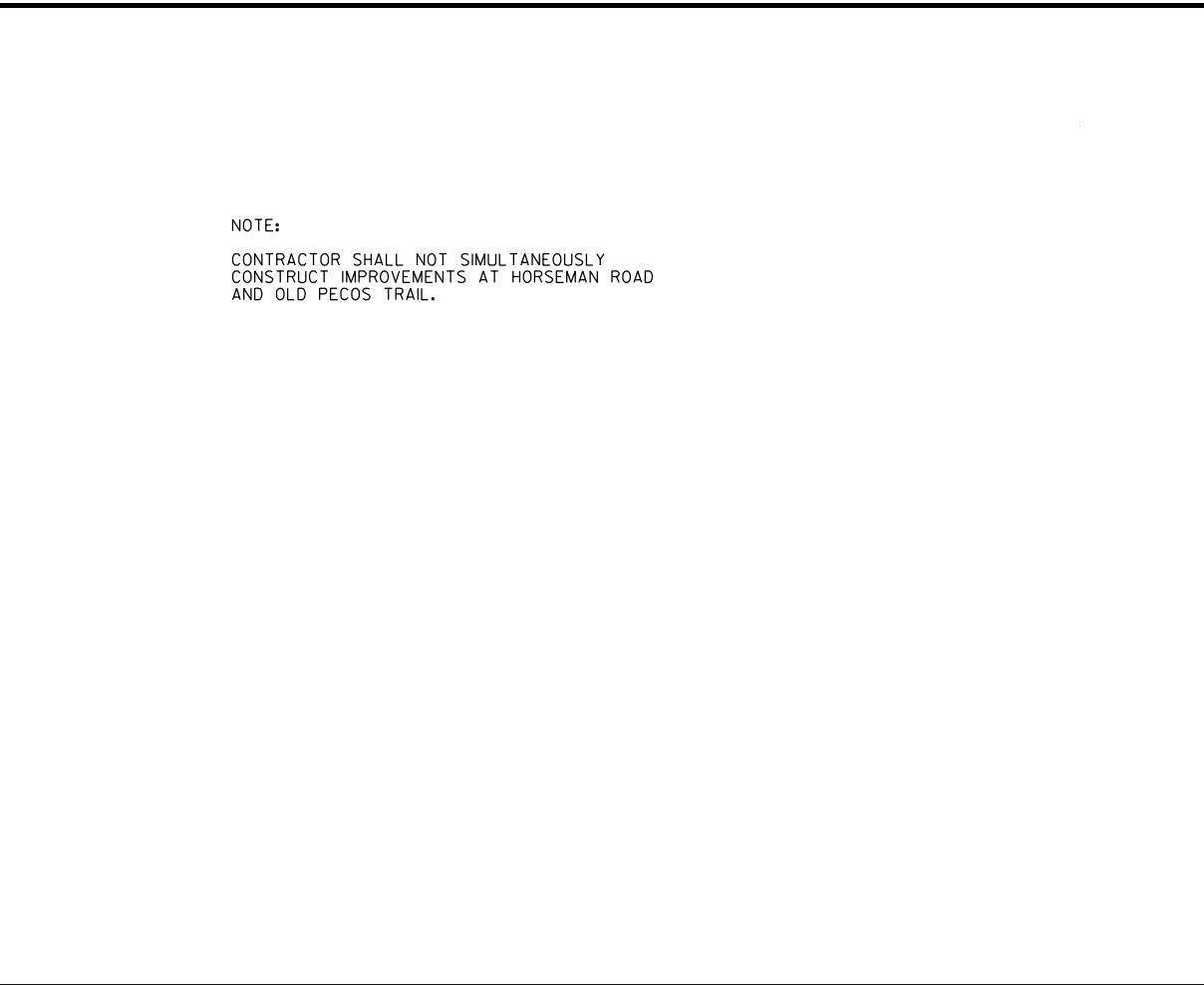
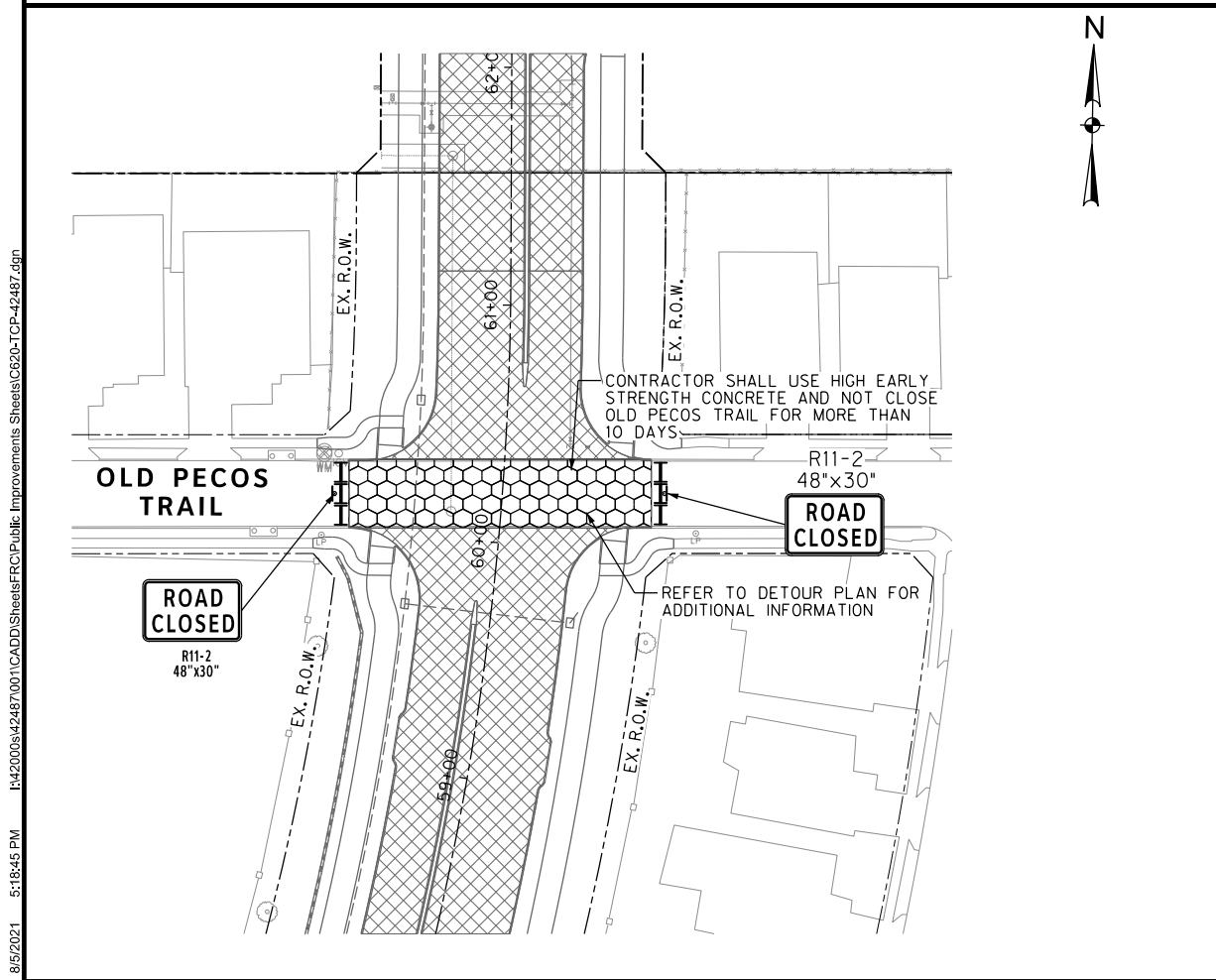
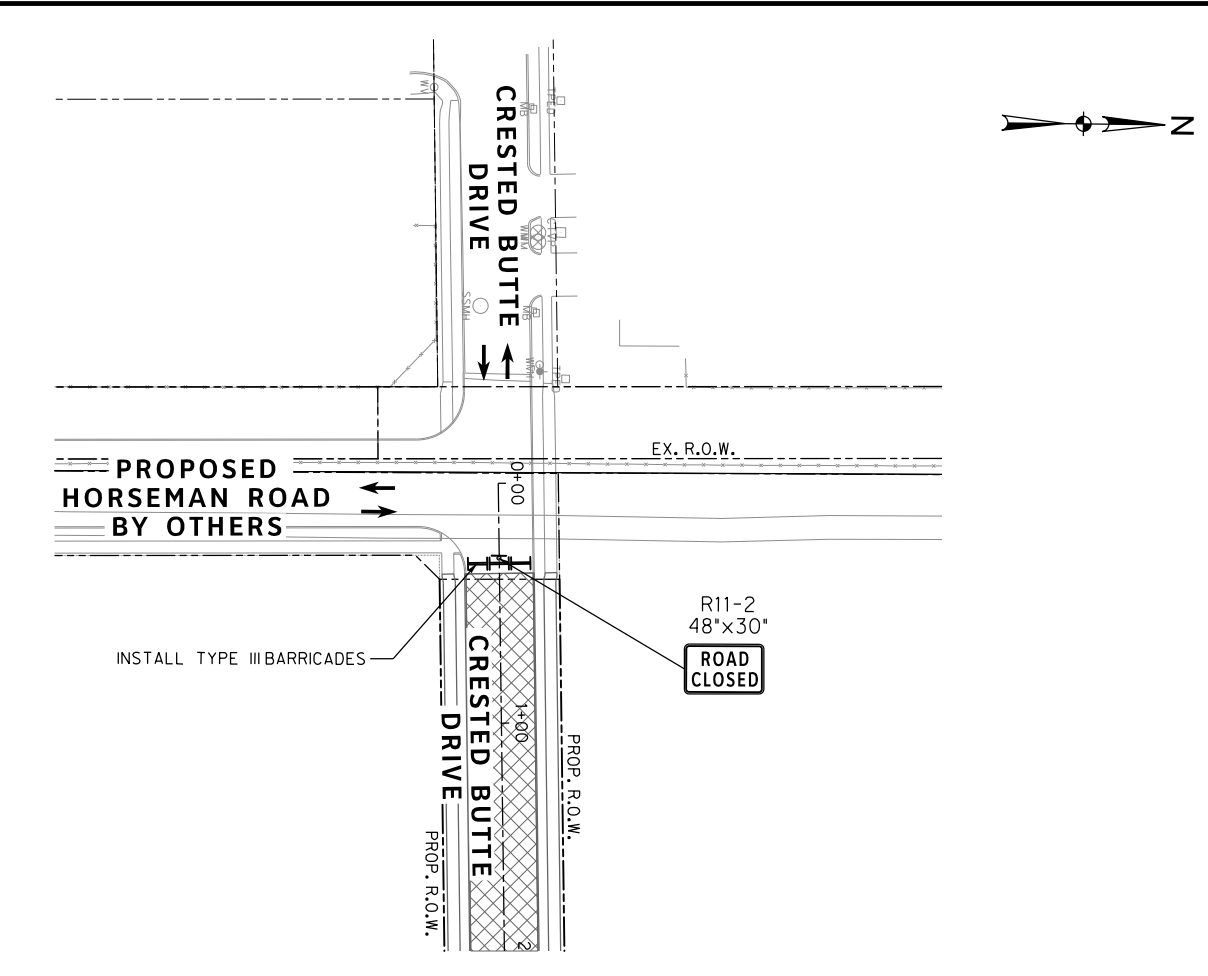
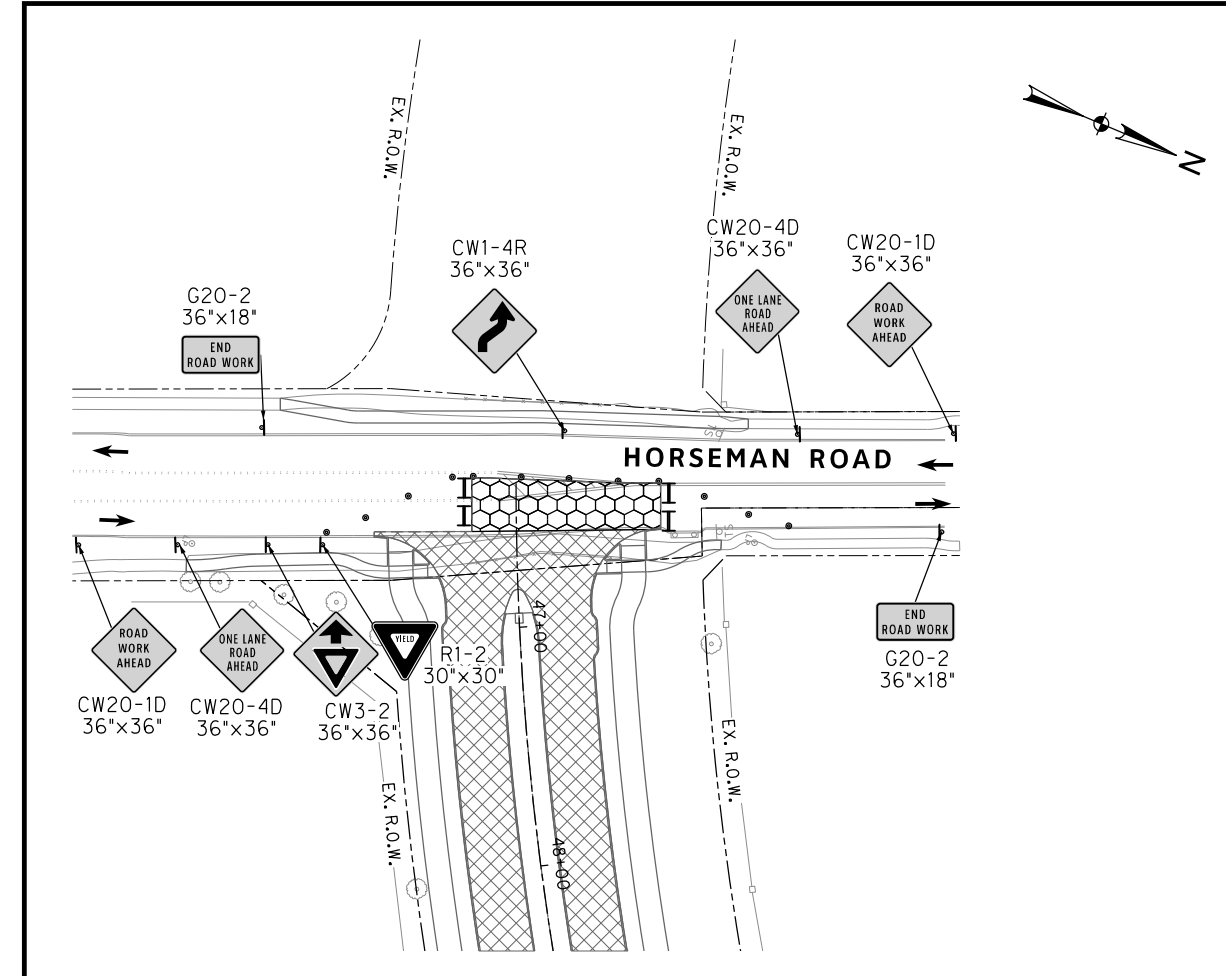
THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATING AT EACH LOCATION:

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) 392-8296
 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' N: 7006672.75	SET 'X-CUT' N: 7010405.95	SET 'PK' NAIL N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	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
PAVEMENT MARKING DETAILS
 (SHEET 6 OF 6)

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 129 OF 189
---------------	---------------	------------------	------------------



REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		

TBPE FIRM #312
 3803 PARKWOOD BLVD., STE 800
 FORT WORTH, TEXAS 76104-8640
 (214) 217-8994

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

The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TBPEIS Engineering Firm #312

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) 392-8296

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-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
TRAFFIC CONTROL PLAN
HORSEMAN ROAD & OLD PECOS TRAIL

DESIGNED: TMW

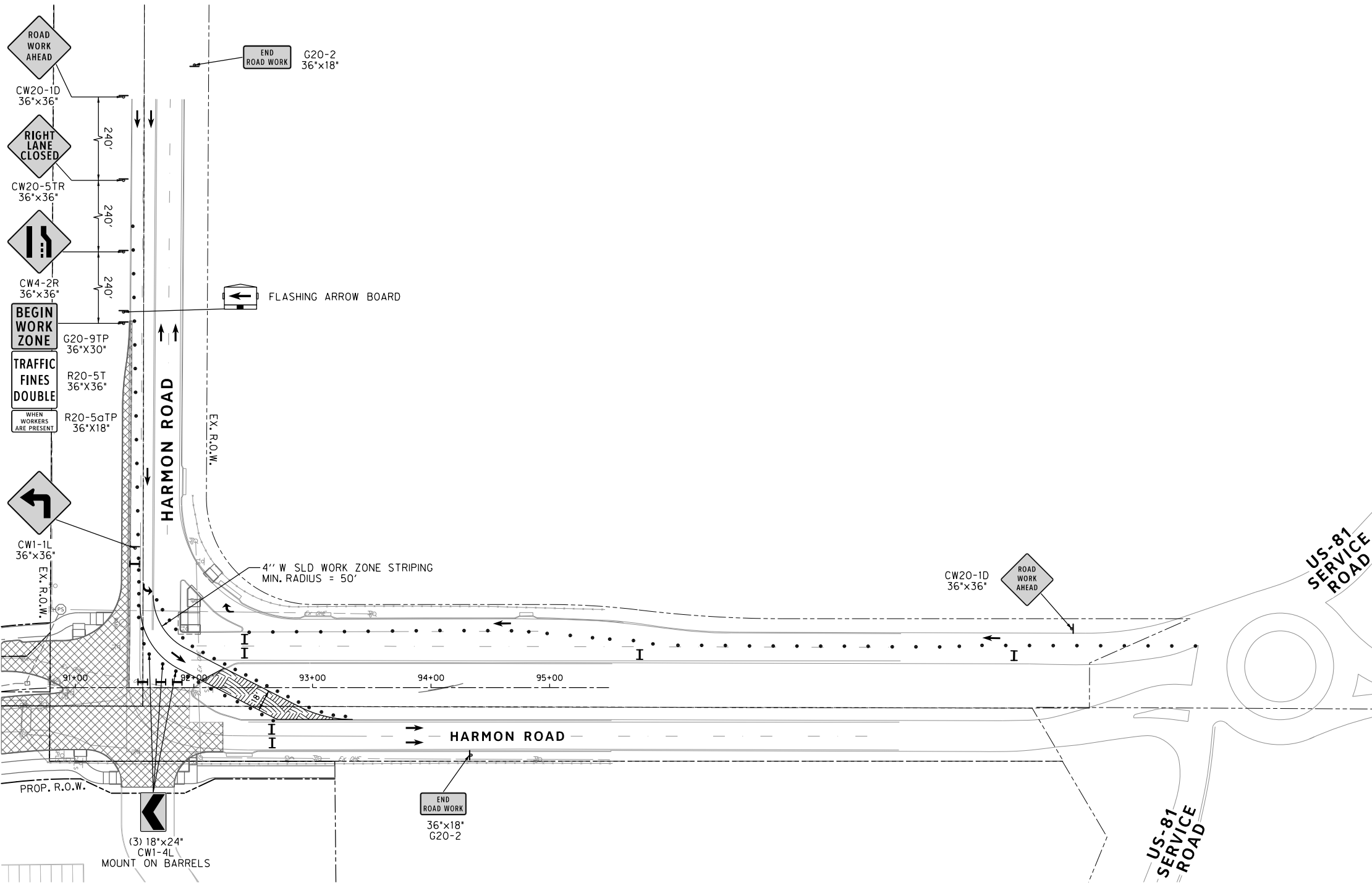
SCALE: 1"=40'

DATE: 06/08/2021

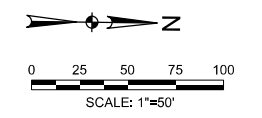
SHEET 130 OF 189

8/5/2021 5:18:45 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C620-TCP-42487.dgn

8/5/2021 5:18:46 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C621-TCP-42487.dgn



REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



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



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104, TBPELS Engineering Firm #312.

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) 392-8296
 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' 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

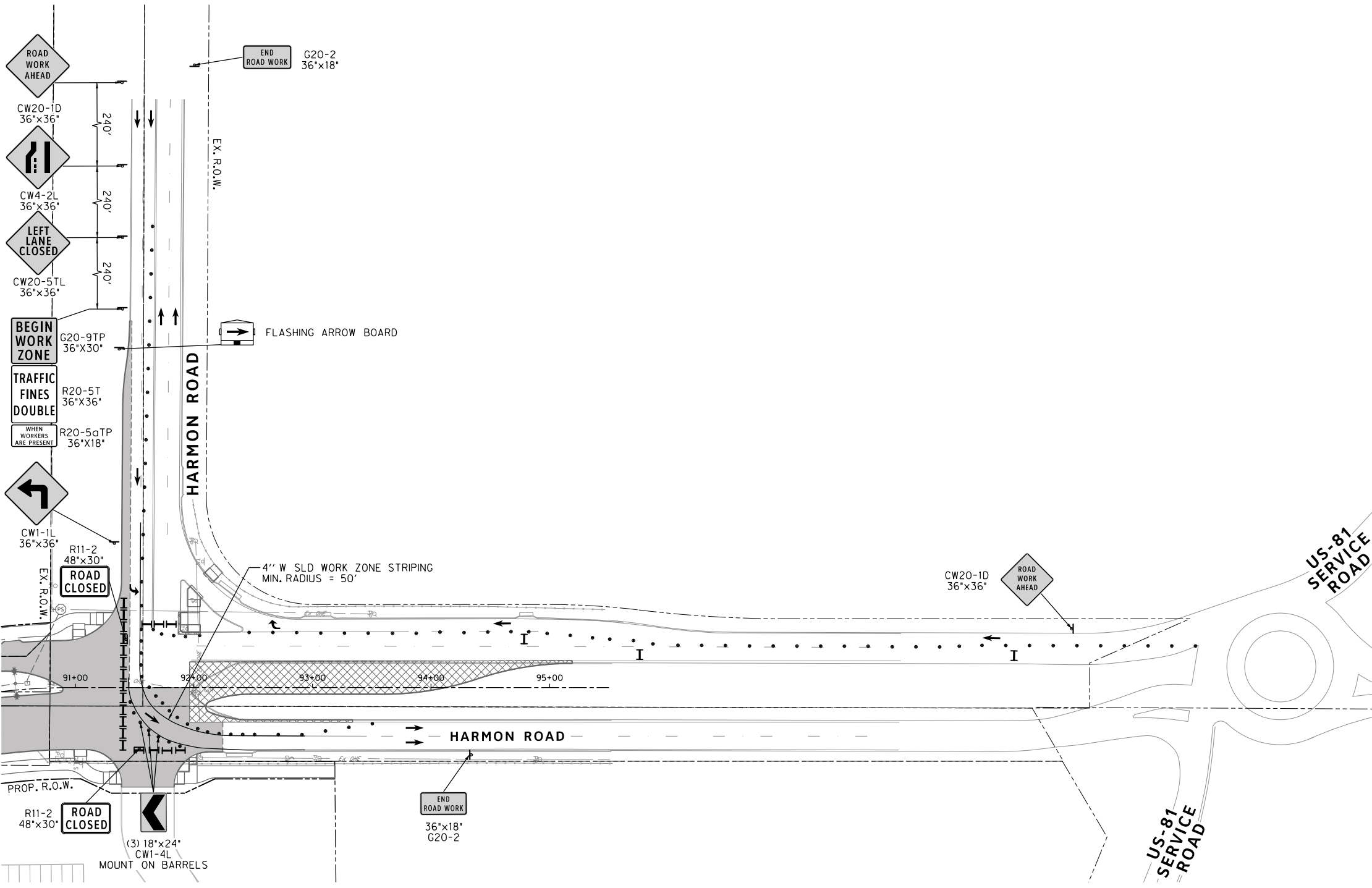
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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
TRAFFIC CONTROL PLAN
 HARMON ROAD INTERSECTION

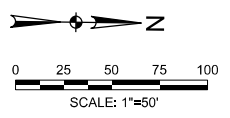
DESIGNED: TMW	SCALE: 1"=50'	DATE: 06/08/2021	SHEET 131 OF 189
DRAWN: PTS			

8/5/2021 5:18:47 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C622-TCP-42487.dgn



REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



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



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104, TBPELS Engineering Firm #312

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) 392-8296
 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' 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

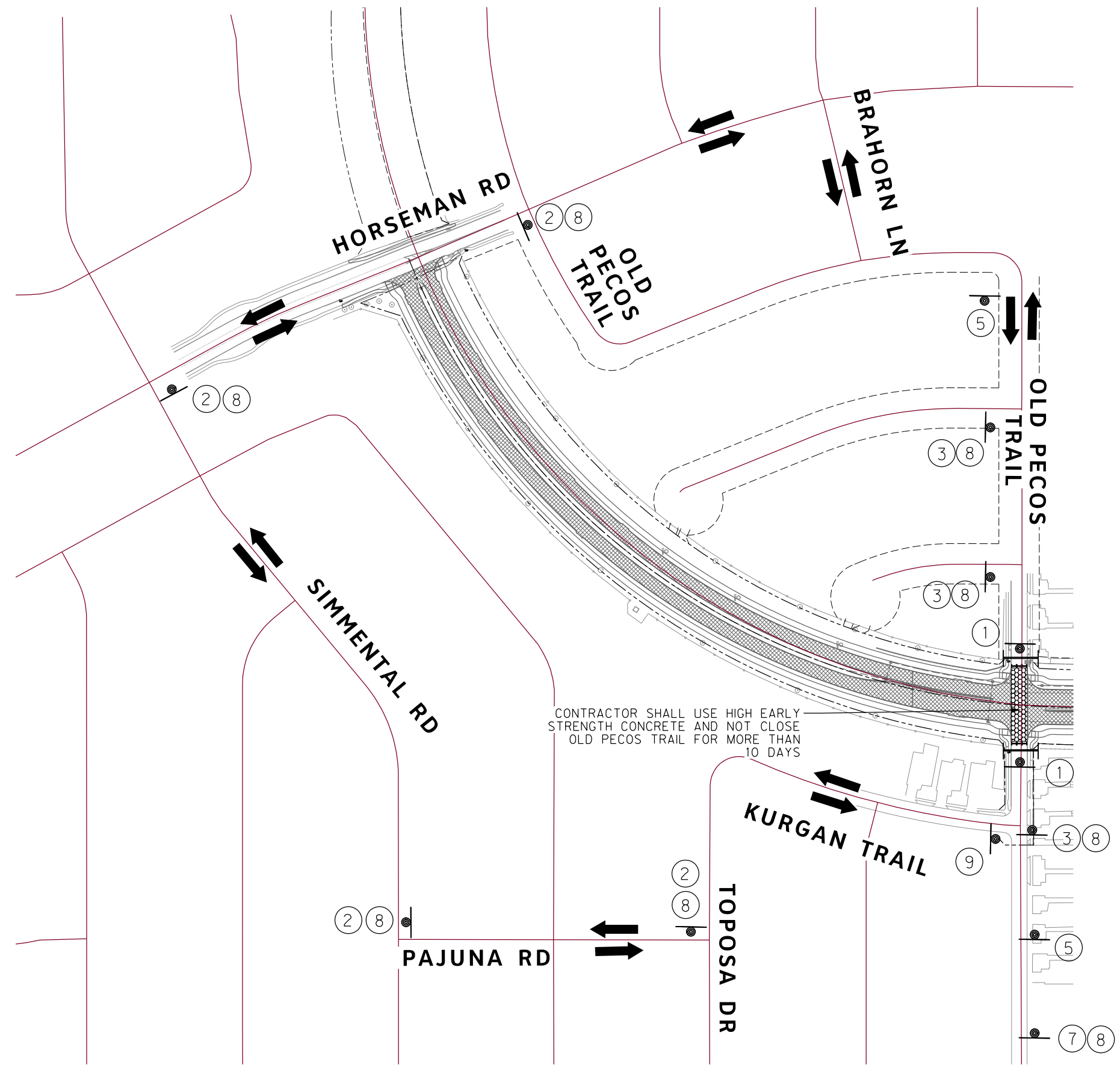
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
TRAFFIC CONTROL PLAN
 HARMON ROAD INTERSECTION

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

8/5/2021 5:18:47 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C623-TCP-42487.dgn



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

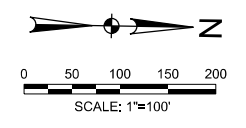
TRAFFIC CONTROL LEGEND

- 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
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBPEIS Engineering Firm #312.

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) 392-8296
 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

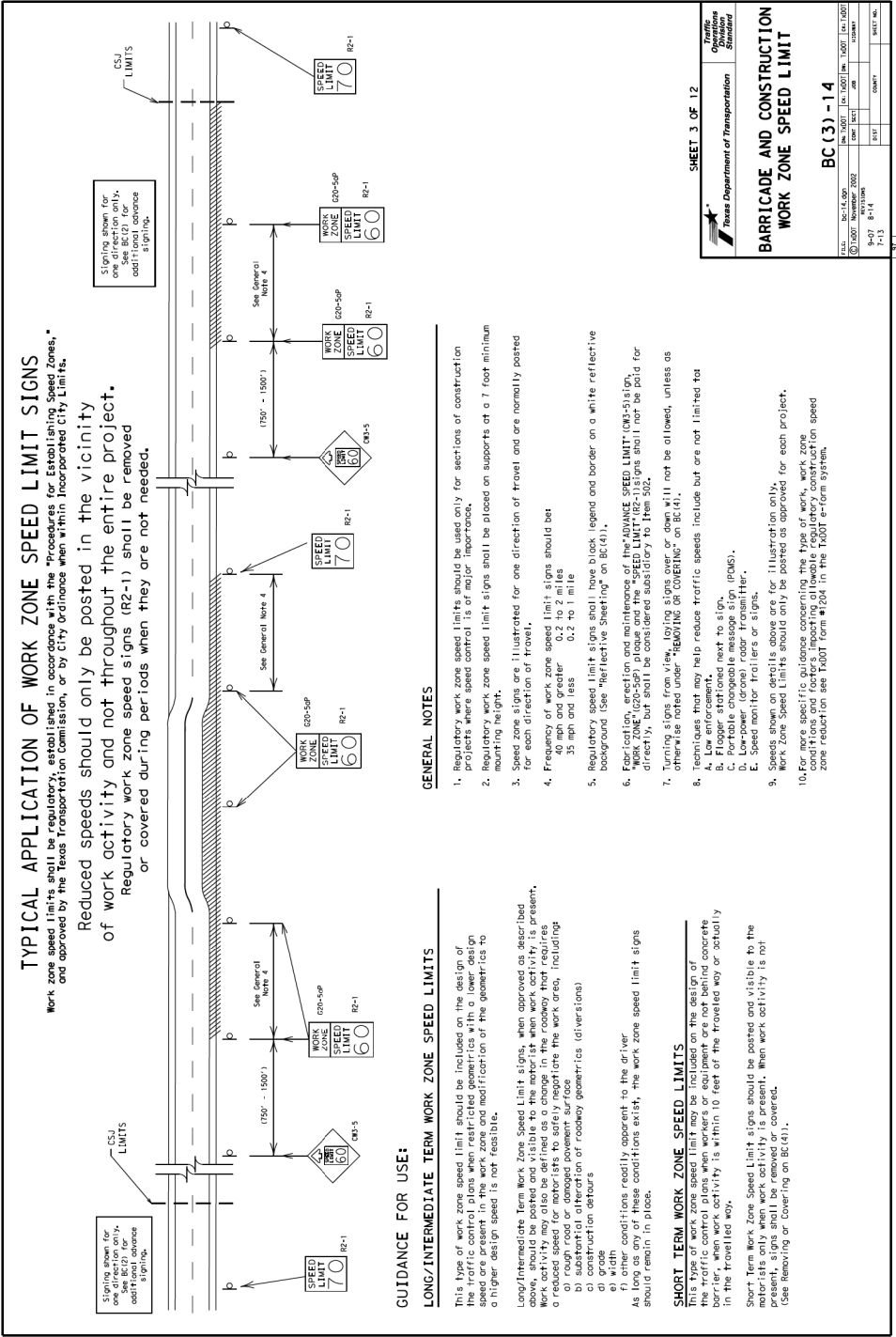
CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97

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
TRAFFIC CONTROL PLAN
 OLD PECOS DETOUR

DESIGNED: TMW	SCALE: 1"=100'	DATE: 06/08/2021	SHEET 133 OF 189
DRAWN: PTS			



GENERAL NOTES

- Regulatory work zone speed limits should be used only for sections of construction projects where speed control is of major importance.
- Regulatory work zone speed limit signs shall be placed on supports at a 7 foot minimum mounting height.
- Speed zone signs are illustrated for one direction of travel and are normally posted for each direction of travel.
- Frequency of work zone speed limit signs should be:
 - a) 40 mph and greater 0.2 to 2 miles
 - b) 35 mph and less 0.2 to 1 mile
- Regulatory speed limit signs shall have black legend and border on a white reflective background (see "Reflective Sheeting" on BC(4)).
- Placement, erection and maintenance of the "WORK ZONE SPEED LIMIT (R2-1) SIGN" directly, but shall be considered subsidiary to Item 502.
- Turning signs from view, laying signs over or down will not be allowed, unless as otherwise noted under "REMOVING OR COVERING" on BC(4).
- Techniques that may help reduce traffic speeds include but are not limited to:
 - A. Low environment
 - B. Portable message sign
 - C. Portable changeable message sign (PAMS)
 - D. Low-power (dome) radar transmitter.
 - E. Speed monitor trailers or signs.
- Signs shown on drawings above are for illustration only. Work zone speed limits should only be posted as approved for each project.
- Signs shall be placed on supports of adequate height and construction speed reduction see TxDOT Form #1204 in the TxDOT e-form system.

GUIDANCE FOR USE:

LONG/INTERMEDIATE TERM WORK ZONE SPEED LIMITS
 This type of work zone speed limit should be included on the design of the traffic control plans when restricted geometrics with a lower design speed are present. Work activity may also be defined as a change in the roadway that requires a reduced speed for motorists to safely negotiate the work area, including:

- a) rough road or damaged pavement surface
- b) change in roadway geometrics (diversions)
- c) construction detours
- d) grade
- e) width
- f) other conditions readily apparent to the driver.

 As long as any of these conditions exist, the work zone speed limit signs should remain in place.

SHORT TERM WORK ZONE SPEED LIMITS
 This type of work zone speed limit may be included on the design of the traffic control plans when restricted geometrics with a lower design speed are present. Work activity may also be defined as a change in the roadway that requires a reduced speed for motorists to safely negotiate the work area, including:

- a) rough road or damaged pavement surface
- b) change in roadway geometrics (diversions)
- c) construction detours
- d) grade
- e) width
- f) other conditions readily apparent to the driver.

 As long as any of these conditions exist, the work zone speed limit signs should remain in place.

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		

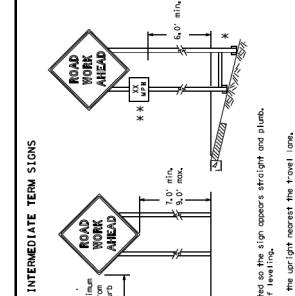
DATE: 8/5/2021
TIME: 5:18:59 PM
PROJECT: I-420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\6332-DTTC-42487.dwg
DESIGNER: TMW
DRAWN: PTS
CHECKER: [Blank]
DATE: 8/5/2021
TIME: 5:18:59 PM
PROJECT: I-420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\6332-DTTC-42487.dwg
DESIGNER: TMW
DRAWN: PTS
CHECKER: [Blank]

GENERAL NOTES FOR WORK ZONE SIGNS

- Contractor shall install and maintain signs in a straight and true condition and/or as directed by the Engineer. Signs shall be used to regulate, warn, and guide the traveling public safely through the work zone.
- Engineer/contractor may require the Contractor to furnish other work zone signs that are shown in the MUTCD but may not have been identified in the specifications. All signs shall be identified by the Engineer/contractor in the specifications and the Contractor shall provide a copy of the correct procedure or being followed.
- Signs shall be placed on supports of adequate height and construction speed reduction see TxDOT Form #1204 in the TxDOT e-form system.
- Signs shall be placed on supports of adequate height and construction speed reduction see TxDOT Form #1204 in the TxDOT e-form system.

GENERAL NOTES FOR WORK ZONE SIGNS

- Contractor shall install and maintain signs in a straight and true condition and/or as directed by the Engineer. Signs shall be used to regulate, warn, and guide the traveling public safely through the work zone.
- Engineer/contractor may require the Contractor to furnish other work zone signs that are shown in the MUTCD but may not have been identified in the specifications. All signs shall be identified by the Engineer/contractor in the specifications and the Contractor shall provide a copy of the correct procedure or being followed.
- Signs shall be placed on supports of adequate height and construction speed reduction see TxDOT Form #1204 in the TxDOT e-form system.
- Signs shall be placed on supports of adequate height and construction speed reduction see TxDOT Form #1204 in the TxDOT e-form system.



ATTACHMENT FOR SIGN SUPPORTS

Attachment to wooden supports or screws, like TxDOT or manufacturer's recommendations, shall be used to attach signs to supports. Signs shall be attached to other types of supports as approved by the Engineer.

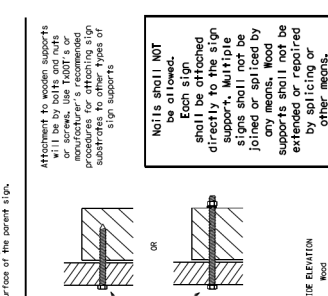
WOODS SHALL NOT BE ALLOWED.
 Each sign shall be attached directly to the sign support. All type joints or splices shall be made by any means. Wood supports shall not be extended or repaired in any way or other means.

CONTRACTOR REQUIREMENTS FOR MAINTAINING PERMANENT SIGNS WITHIN THE PROJECT LIMITS

- Permanent signs are used to give notice of traffic law or regulations, call attention to conditions that are potentially hazardous to traffic operations, and route designations, destinations, directions, distances, interchanges, points of interest, and other information that is needed by the traveling public.
- When permanent regulatory or warning signs conflict with work zone conditions, the contractor shall remove the permanent signs until the work zone conditions are corrected.
- When existing permanent signs are moved and relocated due to construction activities, the contractor shall be responsible for their original supports. They shall be replaced with new supports of the same height and type as the original supports. This work shall be paid for under the appropriate pay item for "INSTALLATION OF PERMANENT SIGNS".
- If permanent signs are to be removed and relocated using temporary supports, the contractor shall be responsible for their original supports. They shall be replaced with new supports of the same height and type as the original supports. This work shall be paid for under the appropriate pay item for "INSTALLATION OF PERMANENT SIGNS".
- Any sign or traffic control device that is struck or damaged by the Contractor shall be replaced with a new sign or device of the same type and size as the original sign or device. This work shall be paid for under the appropriate pay item for "REPAIR OR REPLACEMENT OF PERMANENT SIGNS".

STOP/SLOW PADDES

- STOP/SLOW padde size shall be 24" x 24".
- When used at night, the STOP/SLOW padde shall be illuminated.
- STOP/SLOW paddes may be attached to a post with a minimum length of 6" to the back of the sign. See notes on section 6.03.
- STOP/SLOW paddes shall be as specified in section 6.03.



STOP/SLOW PADDES

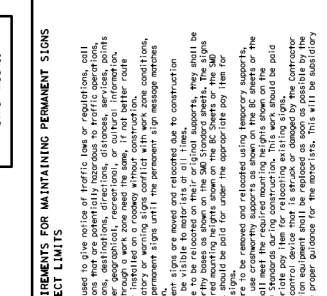
- STOP/SLOW padde size shall be 24" x 24".
- When used at night, the STOP/SLOW padde shall be illuminated.
- STOP/SLOW paddes may be attached to a post with a minimum length of 6" to the back of the sign. See notes on section 6.03.
- STOP/SLOW paddes shall be as specified in section 6.03.

GENERAL NOTES FOR WORK ZONE SIGNS

- Contractor shall install and maintain signs in a straight and true condition and/or as directed by the Engineer. Signs shall be used to regulate, warn, and guide the traveling public safely through the work zone.
- Engineer/contractor may require the Contractor to furnish other work zone signs that are shown in the MUTCD but may not have been identified in the specifications. All signs shall be identified by the Engineer/contractor in the specifications and the Contractor shall provide a copy of the correct procedure or being followed.
- Signs shall be placed on supports of adequate height and construction speed reduction see TxDOT Form #1204 in the TxDOT e-form system.
- Signs shall be placed on supports of adequate height and construction speed reduction see TxDOT Form #1204 in the TxDOT e-form system.

GENERAL NOTES FOR WORK ZONE SIGNS

- Contractor shall install and maintain signs in a straight and true condition and/or as directed by the Engineer. Signs shall be used to regulate, warn, and guide the traveling public safely through the work zone.
- Engineer/contractor may require the Contractor to furnish other work zone signs that are shown in the MUTCD but may not have been identified in the specifications. All signs shall be identified by the Engineer/contractor in the specifications and the Contractor shall provide a copy of the correct procedure or being followed.
- Signs shall be placed on supports of adequate height and construction speed reduction see TxDOT Form #1204 in the TxDOT e-form system.
- Signs shall be placed on supports of adequate height and construction speed reduction see TxDOT Form #1204 in the TxDOT e-form system.



GENERAL NOTES FOR WORK ZONE SIGNS

- Contractor shall install and maintain signs in a straight and true condition and/or as directed by the Engineer. Signs shall be used to regulate, warn, and guide the traveling public safely through the work zone.
- Engineer/contractor may require the Contractor to furnish other work zone signs that are shown in the MUTCD but may not have been identified in the specifications. All signs shall be identified by the Engineer/contractor in the specifications and the Contractor shall provide a copy of the correct procedure or being followed.
- Signs shall be placed on supports of adequate height and construction speed reduction see TxDOT Form #1204 in the TxDOT e-form system.
- Signs shall be placed on supports of adequate height and construction speed reduction see TxDOT Form #1204 in the TxDOT e-form system.

GENERAL NOTES FOR WORK ZONE SIGNS

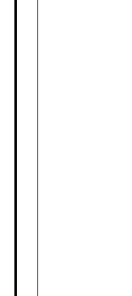
- Contractor shall install and maintain signs in a straight and true condition and/or as directed by the Engineer. Signs shall be used to regulate, warn, and guide the traveling public safely through the work zone.
- Engineer/contractor may require the Contractor to furnish other work zone signs that are shown in the MUTCD but may not have been identified in the specifications. All signs shall be identified by the Engineer/contractor in the specifications and the Contractor shall provide a copy of the correct procedure or being followed.
- Signs shall be placed on supports of adequate height and construction speed reduction see TxDOT Form #1204 in the TxDOT e-form system.
- Signs shall be placed on supports of adequate height and construction speed reduction see TxDOT Form #1204 in the TxDOT e-form system.

GENERAL NOTES FOR WORK ZONE SIGNS

- Contractor shall install and maintain signs in a straight and true condition and/or as directed by the Engineer. Signs shall be used to regulate, warn, and guide the traveling public safely through the work zone.
- Engineer/contractor may require the Contractor to furnish other work zone signs that are shown in the MUTCD but may not have been identified in the specifications. All signs shall be identified by the Engineer/contractor in the specifications and the Contractor shall provide a copy of the correct procedure or being followed.
- Signs shall be placed on supports of adequate height and construction speed reduction see TxDOT Form #1204 in the TxDOT e-form system.
- Signs shall be placed on supports of adequate height and construction speed reduction see TxDOT Form #1204 in the TxDOT e-form system.

GENERAL NOTES FOR WORK ZONE SIGNS

- Contractor shall install and maintain signs in a straight and true condition and/or as directed by the Engineer. Signs shall be used to regulate, warn, and guide the traveling public safely through the work zone.
- Engineer/contractor may require the Contractor to furnish other work zone signs that are shown in the MUTCD but may not have been identified in the specifications. All signs shall be identified by the Engineer/contractor in the specifications and the Contractor shall provide a copy of the correct procedure or being followed.
- Signs shall be placed on supports of adequate height and construction speed reduction see TxDOT Form #1204 in the TxDOT e-form system.
- Signs shall be placed on supports of adequate height and construction speed reduction see TxDOT Form #1204 in the TxDOT e-form system.



GENERAL NOTES FOR WORK ZONE SIGNS

- Contractor shall install and maintain signs in a straight and true condition and/or as directed by the Engineer. Signs shall be used to regulate, warn, and guide the traveling public safely through the work zone.
- Engineer/contractor may require the Contractor to furnish other work zone signs that are shown in the MUTCD but may not have been identified in the specifications. All signs shall be identified by the Engineer/contractor in the specifications and the Contractor shall provide a copy of the correct procedure or being followed.
- Signs shall be placed on supports of adequate height and construction speed reduction see TxDOT Form #1204 in the TxDOT e-form system.
- Signs shall be placed on supports of adequate height and construction speed reduction see TxDOT Form #1204 in the TxDOT e-form system.

GENERAL NOTES FOR WORK ZONE SIGNS

- Contractor shall install and maintain signs in a straight and true condition and/or as directed by the Engineer. Signs shall be used to regulate, warn, and guide the traveling public safely through the work zone.
- Engineer/contractor may require the Contractor to furnish other work zone signs that are shown in the MUTCD but may not have been identified in the specifications. All signs shall be identified by the Engineer/contractor in the specifications and the Contractor shall provide a copy of the correct procedure or being followed.
- Signs shall be placed on supports of adequate height and construction speed reduction see TxDOT Form #1204 in the TxDOT e-form system.
- Signs shall be placed on supports of adequate height and construction speed reduction see TxDOT Form #1204 in the TxDOT e-form system.

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		

HALFF
 TBE FIRM #F-312
 3803 PARKWOOD BLVD., STE 800
 FORT WORTH, TEXAS 76104-8640
 (214) 217-8994

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) 392-8296
 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' 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

CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

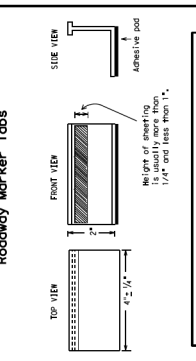
EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
TRAFFIC CONTROL DETAILS
(SHEET 3 OF 7)

DESIGNED: TMW
 DRAWN: PTS
 SCALE: N.T.S.
 DATE: 06/08/2021
 SHEET: 136 OF 189

WORK ZONE PAVEMENT MARKINGS

GENERAL
1. The contractor shall be responsible for maintaining work zone and...
REMOVAL OF PAVEMENT MARKINGS
1. Remove markings that are no longer applicable...
RAISED PAVEMENT MARKINGS
1. All raised pavement markings used for work zone markings shall meet the requirements of M-2822...

TEMPORARY FLEXIBLE-REFLECTIVE ROADWAY MARKER TABS



STAPLES OR NAILS SHALL NOT BE USED TO SECURE TEMPORARY FLEXIBLE-REFLECTIVE ROADWAY MARKER TABS TO THE PAVEMENT SURFACE
1. Temporary flexible-reflective roadway marker tabs used as guidemarks shall meet the requirements of M-2822...

RAISED PAVEMENT MARKERS USED AS GUIDEMARKS

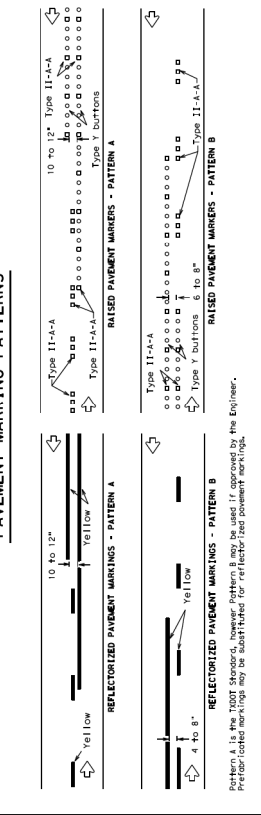
- 1. Raised pavement markers used as guidemarks shall be from the approved list of manufacturers...
2. Tests applied on this sheet are to be inspected and accepted by the Engineer...
3. All temporary construction raised pavement markers provided on a project shall be of the same manufacturer...

NOTE - The center reflective surface with yellow body, yellow - the outer reflective surface with white body.

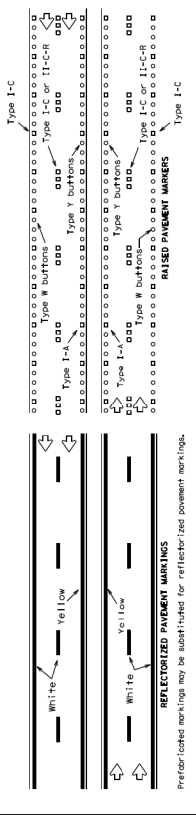
DEPARTMENTAL MATERIAL SPECIFICATIONS
PAVEMENT MARKERS (REFLECTORIZED)
ITEM NO. 02-11-000
DATE 11-11-00
BY 1111

TRAFFIC CONTROL DIVISION STANDARD
BARRICADE AND CONSTRUCTION PAVEMENT MARKINGS
SHEET 11 OF 12
BC (11) - 14

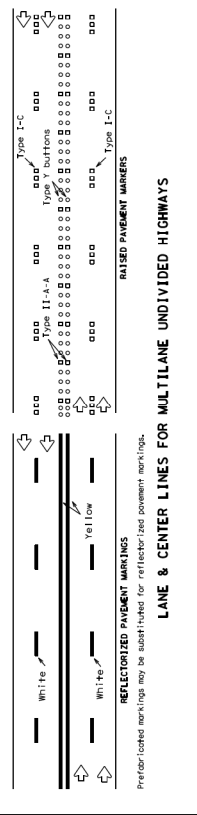
PAVEMENT MARKING PATTERNS



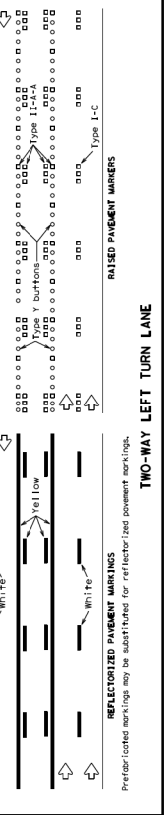
CENTER LINE & NO-PASSING ZONE BARRIER LINES FOR TWO-LANE, TWO-WAY HIGHWAYS



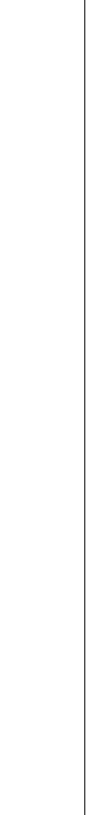
EDGE & LANE LINES FOR DIVIDED HIGHWAY



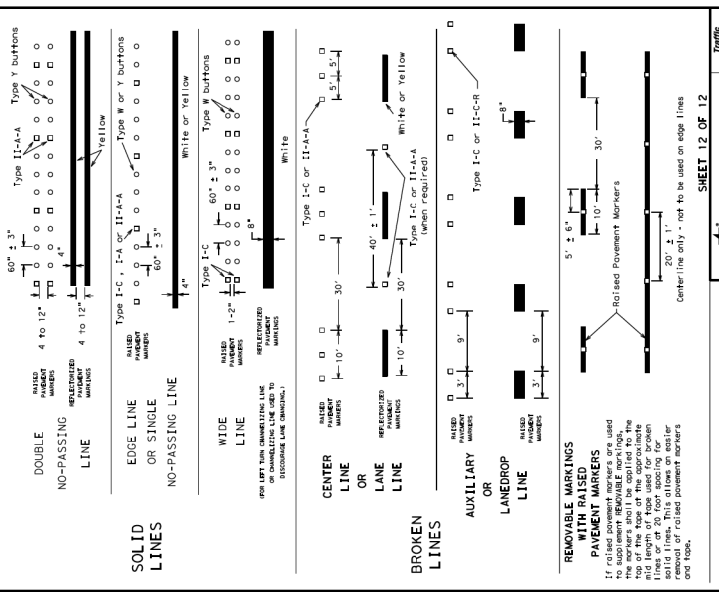
LANE & CENTER LINES FOR MULTILANE UNDIVIDED HIGHWAYS



TWO-WAY LEFT TURN LANE

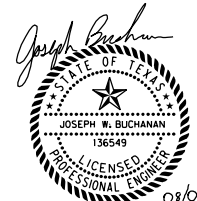


STANDARD WORK ZONE PAVEMENT MARKINGS DETAILS



TRAFFIC CONTROL DIVISION STANDARD
BARRICADE AND CONSTRUCTION PAVEMENT MARKINGS
SHEET 12 OF 12
BC (12) - 14

REVISIONS table with columns for NO., DESCRIPTION, and DATE.



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act...

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.

HORIZONTAL & VERTICAL CONTROL

Table with columns for CONTROL POINT #, SET 'X'-CUT', N, E, and ELEV.

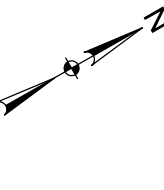
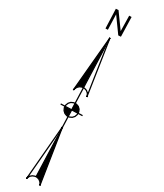
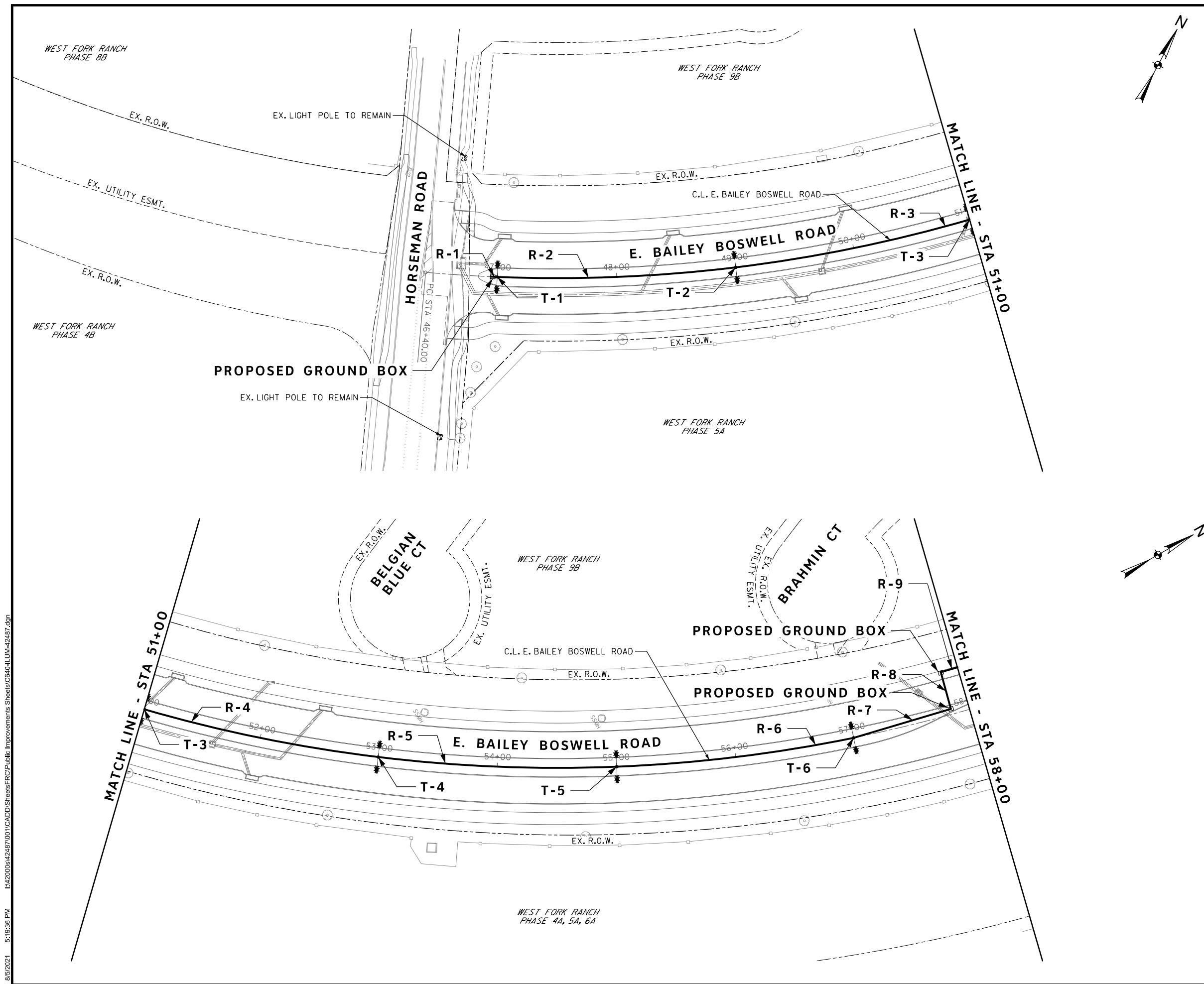
DOE # K-2840
CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
MAP NO. XXXX-XXX

CITY OF FORT WORTH, TEXAS
TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

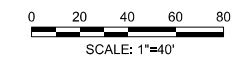
EAST BAILEY BOSWELL ROAD
FROM HORSEMAN ROAD TO HARMON ROAD
TRAFFIC CONTROL DETAILS
(SHEET 7 OF 7)

Table with columns for DESIGNED, DRAWN, SCALE, DATE, SHEET.



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.



The seal appearing on this document was authorized by Nathan A. Hearn, P.E. 109952 on 04/26/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Half Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBPELS Engineering Firm #312.

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) 392-8296
 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' 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

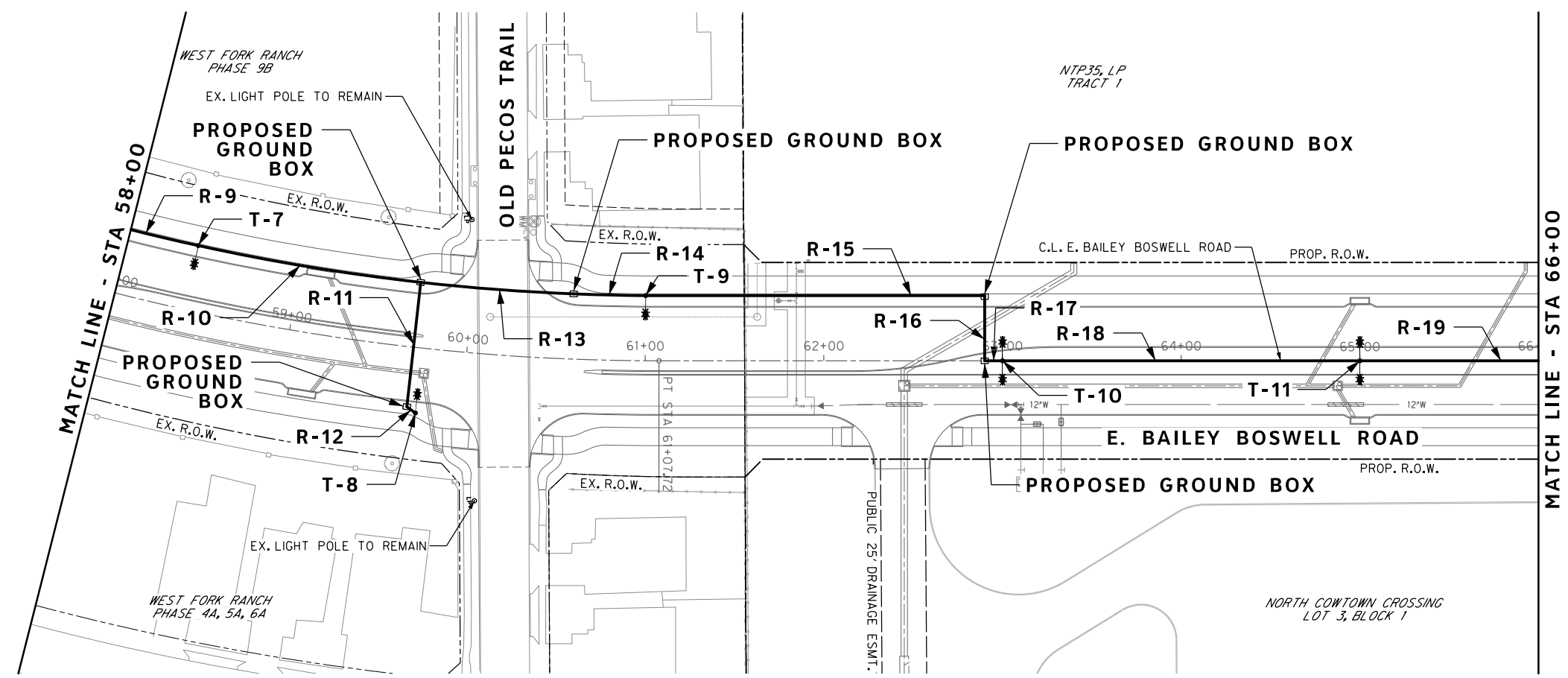
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
ROADWAY LIGHTING PLAN
 BEGIN TO STA 58+00

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 141 OF 189
DRAWN: PTS			

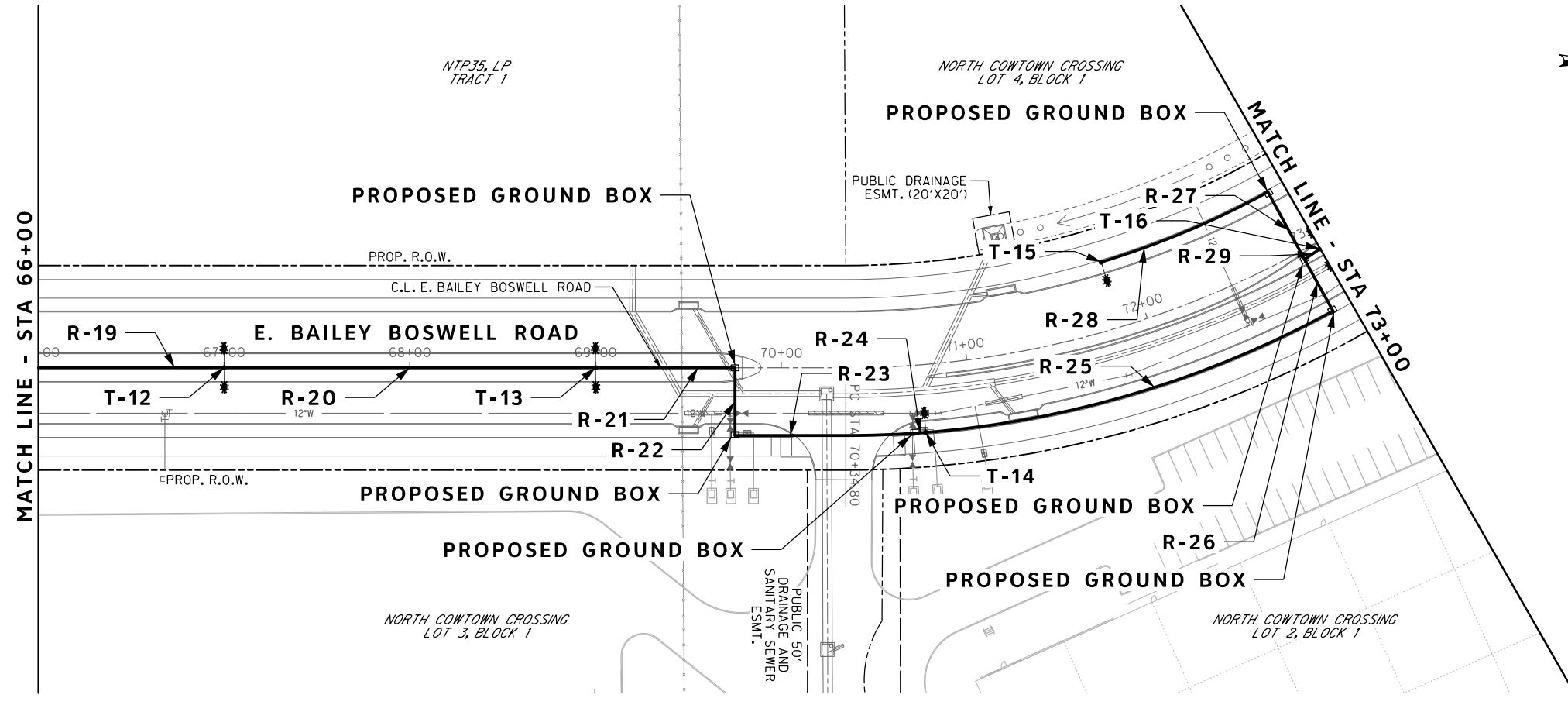
8/5/2021 5:19:36 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C640-ILUM-42487.dgn

8/5/2021 5:19:37 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C641-ILUM-42487.dgn



MATCH LINE - STA 66+00

MATCH LINE - STA 58+00

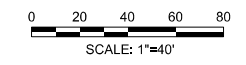


MATCH LINE - STA 66+00

MATCH LINE - STA 73+00

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



NOTES:

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.



The seal appearing on this document was authorized by Nathan A. Hearn, P.E. 109952 on 04/26/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TBPE/E/S Engineering Firm #312

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) 392-8296
 - 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-XXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXX
 MAP NO. XXXX-XXX

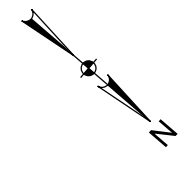
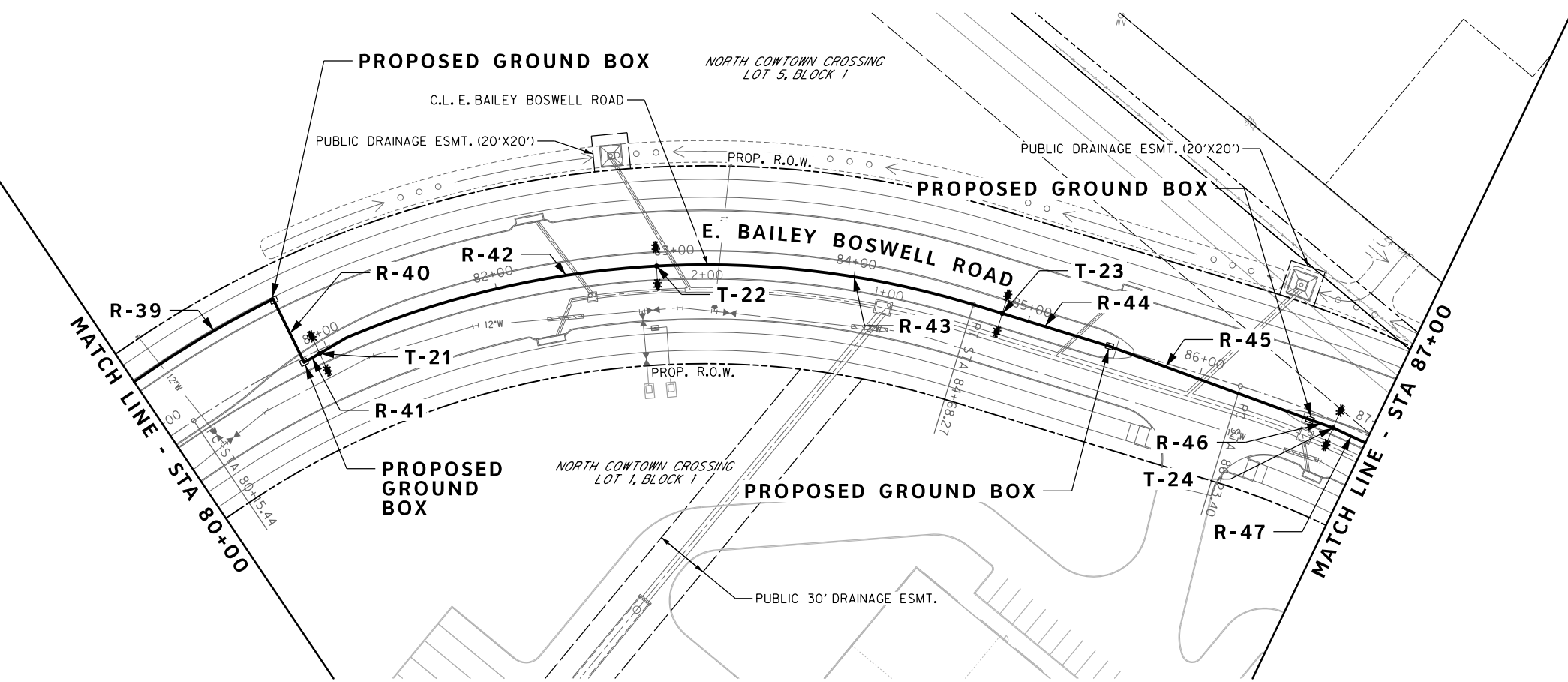
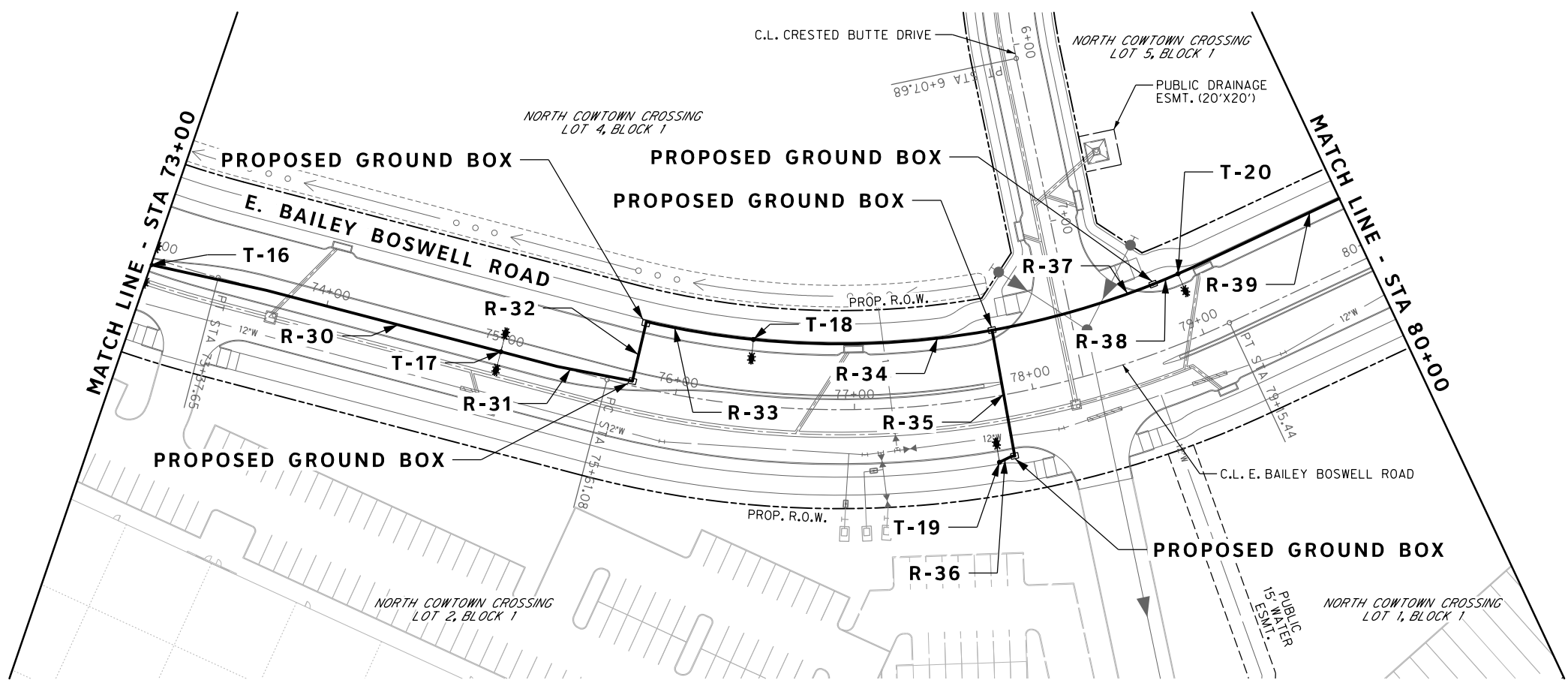
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

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

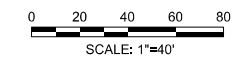
DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 142 OF 189
DRAWN: PTS			

8/5/2021 5:19:37 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C642-ILUM-42487.dgn



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.



The seal appearing on this document was authorized by Nathan A. Hearn, P.E. 109952 on 04/26/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Half Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104, TBPELS Engineering Firm #312.

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) 392-8296
 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

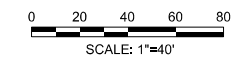
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
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:
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.



The seal appearing on this document was authorized by Nathan A. Hearn, P.E. 109952 on 04/26/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034. TBPELS Engineering Firm #312

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) 392-8296
 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

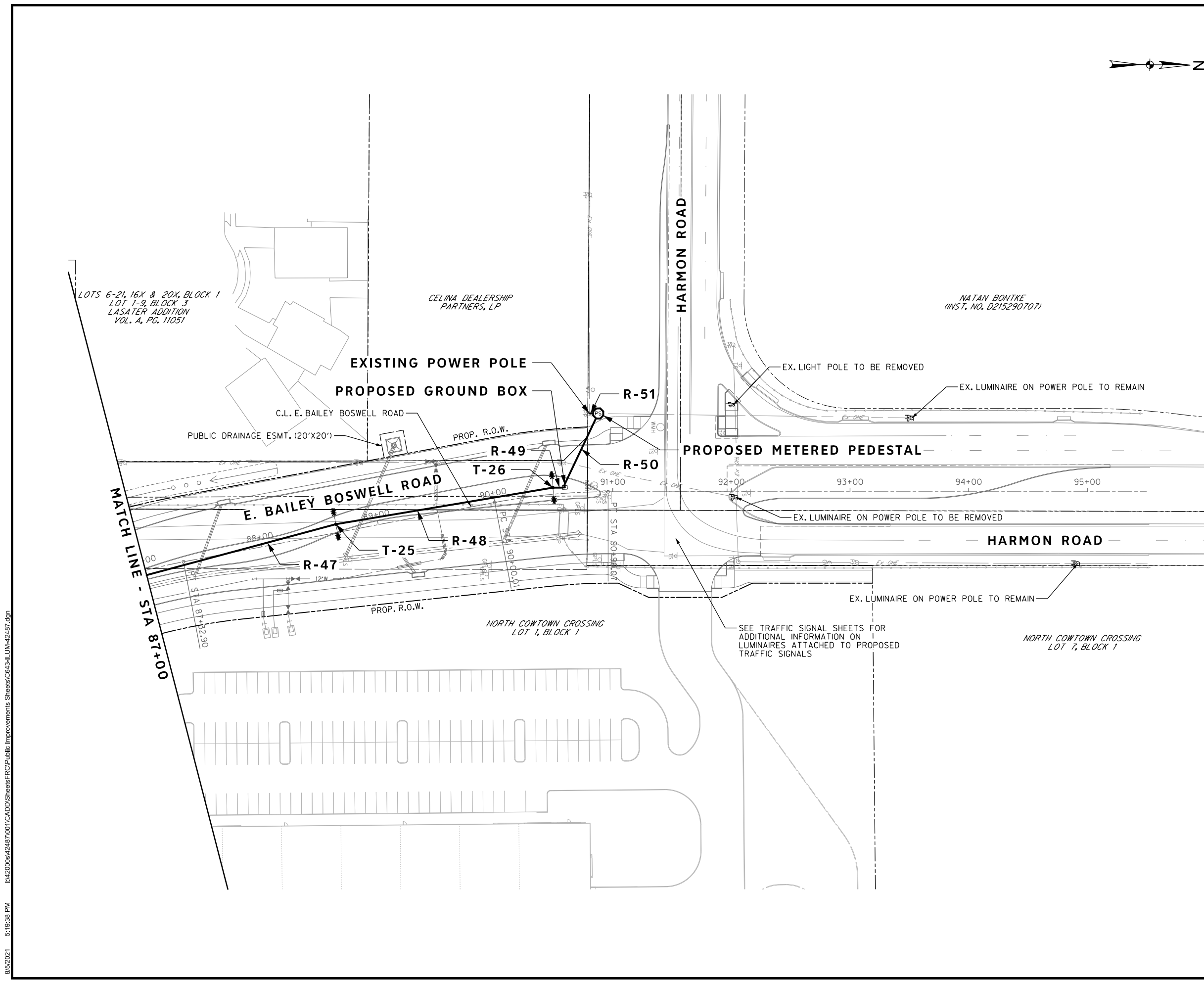
CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT'	SET 'X-CUT'	SET 'PK' NAIL
N: 7006672.75	N: 7010405.95	N: 7008953.42
E: 2327333.06	E: 2327011.03	E: 2327060.00
ELEV: 685.24	ELEV: 690.73	ELEV: 687.97

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 ROADWAY LIGHTING PLAN STA 87+00 TO END

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 144 OF 189
DRAWN: PTS			



8/5/2021 5:19:39 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C644-LUM-42487.dgn

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		
2		
3		



The seal appearing on this document was authorized by Nathan A. Hearn, P.E. 109652 on 04/26/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TPELS Engineering Firm #312

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) 392-8296
 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 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 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: PTS	DATE: 06/08/2021	SHEET 145 OF 189
---------------	------------	------------------	------------------

8/5/2021 5:19:39 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C645-ILUM-42487.dgn

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]	[AMPS]	[FEET]	[NO.]	[OHMS/FEET]	[AMPS]	[VOLTS]	[VOLTS]
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]	[AMPS]	[FEET]	[NO.]	[OHMS/FEET]	[AMPS]	[VOLTS]	[VOLTS]
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	1P/30 1P/30 1P/20	12.6 13.2	6.2

REVISIONS

No.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Nathan A. Hearn, P.E. 109852 on 04/26/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Half Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TSP/E/S Engineering Firm #312

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) 392-8296
 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' 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

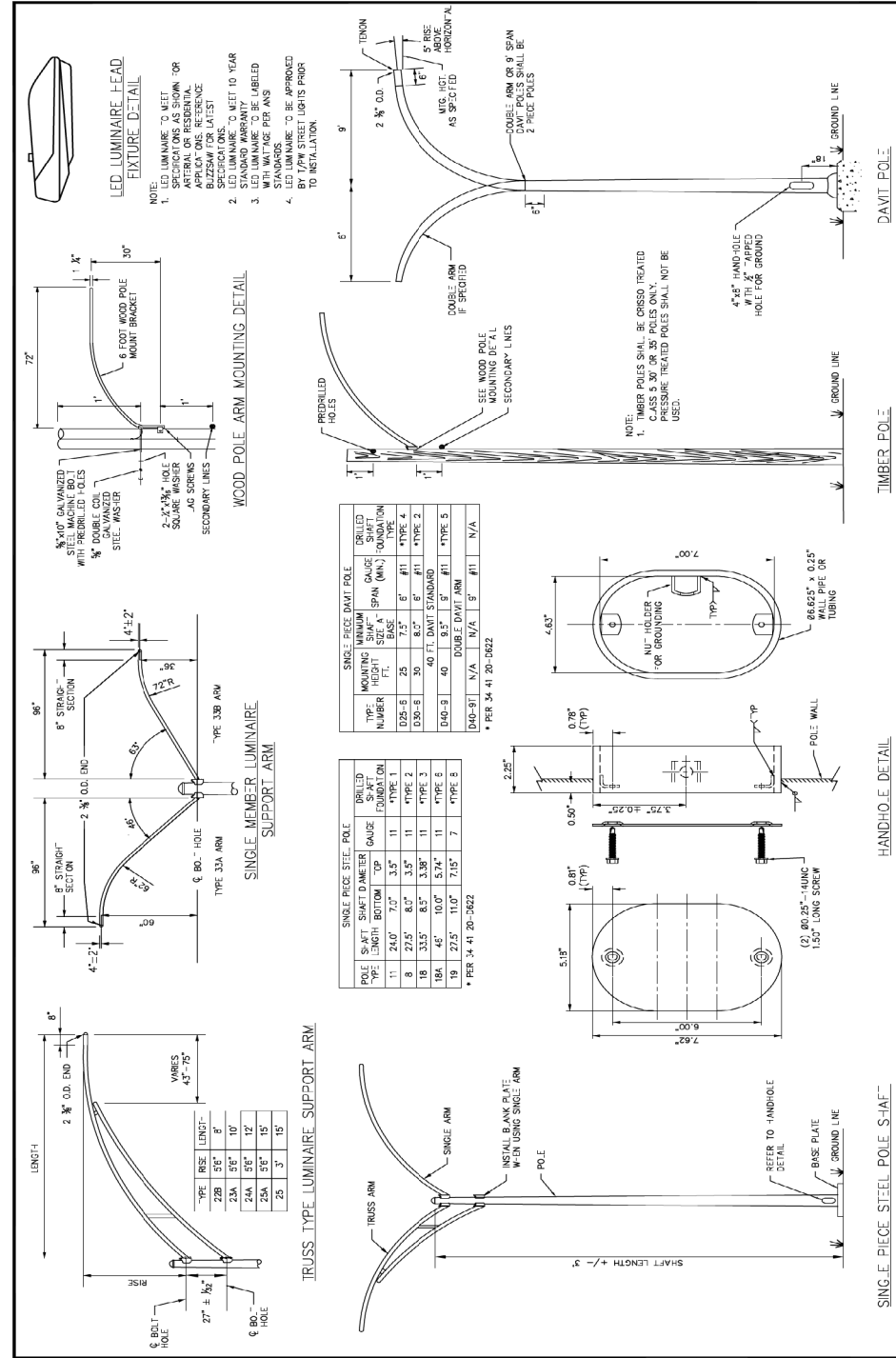
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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 TABLES

DESIGNED: TMW	SCALE: PTS	DATE: 06/08/2021	SHEET 146 OF 189
---------------	------------	------------------	------------------



CITY OF FORT WORTH, TEXAS
STREET LUMINAIRE
POLE AND FIXTURE DETAILS

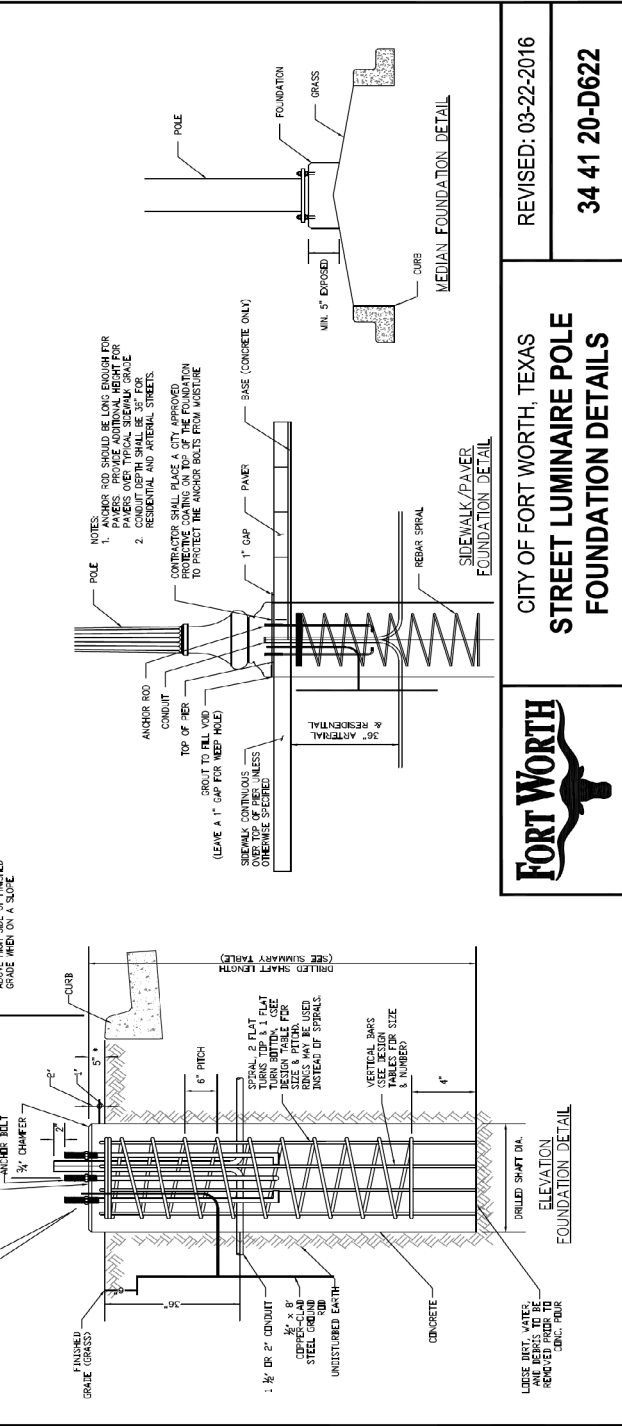
REVISED: 07-09-2014
34 41 20-D621

ANCHOR BOLT SCHEDULE

TYPE	POLE DIA. (IN.)	ROD DIA. (IN.)	LENGTH (IN.)	HEIGHT ABOVE FOUNDATION (IN.)	AS REQUIRED
1	24"	1 1/2"	48	6	5"
2	24"	1 1/2"	48	6	5"
3	24"	1 1/2"	48	6	5"
4	24"	1 1/2"	48	6	5"
5	24"	1 1/2"	48	6	5"
6	24"	1 1/2"	48	6	5"
7	24"	1 1/2"	48	6	5"
8	24"	1 1/2"	48	6	5"
9	24"	1 1/2"	48	6	5"
10	24"	1 1/2"	48	6	5"
11	24"	1 1/2"	48	6	5"
12	24"	1 1/2"	48	6	5"
13	24"	1 1/2"	48	6	5"
14	24"	1 1/2"	48	6	5"
15	24"	1 1/2"	48	6	5"
16	24"	1 1/2"	48	6	5"
17	24"	1 1/2"	48	6	5"
18	24"	1 1/2"	48	6	5"
19	24"	1 1/2"	48	6	5"
20	24"	1 1/2"	48	6	5"

FOUNDATION DESIGN TABLE

PERFORATING STEEL SHEET PILING	DRILLED SHAFT	GROUND ROD	ANCHOR BOLT	ANCHOR BOLT DESIGN	MIN. CONC. CURB DIA. FOR LOCATION OF CURB	PER POLE TYPE						
1	24"	4-#6	15" x 8" AT 6"	1"	40"	1"	40"	10"	47"	7 3/8"	6 1/2"	11"
2	24"	4-#6	15" x 8" AT 6"	6	40"	11"	47"	7 3/8"	7"	7"	8 & DD-6	18
3	24"	4-#6	15" x 8" AT 6"	8	40"	11 3/4"	47"	8 3/8"	7 3/8"	6 3/4"	02-6	18
4	24"	4-#6	15" x 8" AT 6"	8	40"	10 3/4"	47"	7 3/8"	7 3/8"	6 3/4"	DD-6	18
5	30"	4-#6	15" x 8" AT 6"	8	40"	13"	51"	9 3/8"	8 3/8"	8 3/8"	DD-6	18
6	30"	4-#6	15" x 8" AT 6"	8	40"	13 3/4"	51"	9 3/8"	9 3/8"	9 3/8"	DD-6	18
7	24"	4-#6	15" x 8" AT 6"	5	40"	15"	46"	10 3/8"	10"	10 3/8"	WASHINGTON STYLE	15, 41
8	30"	4-#6	15" x 8" AT 6"	8	40"	17 1/2"	51"	12"	12"	12"	WASHINGTON STYLE	15, 41
9	30"	4-#6	15" x 8" AT 6"	8	40"	17 1/2"	51"	12"	12"	12"	WASHINGTON STYLE	15, 41
10	24"	4-#6	15" x 8" AT 6"	5	40"	8 3/8"	30"	8 3/8"	N/A	6"	3"	TEMPER-HARDENED STEEL-10.5
11	24"	4-#6	15" x 8" AT 6"	5	40"	10 3/8"	30"	10 3/8"	N/A	7.42"	6 3/8"	CLEANER STYLE - TYPE A
12	24"	4-#6	15" x 8" AT 6"	5	40"	12 3/8"	30"	12 3/8"	N/A	8.84"	8 3/8"	CLEANER STYLE - TYPE B
13	24"	4-#6	15" x 8" AT 6"	5	40"	17"	30"	17"	N/A	5"	3 3/4"	BERRY STYLE - 12"
14	24"	4-#6	15" x 8" AT 6"	5	40"	17"	30"	17"	N/A	7.00"	6 3/8"	BERRY STYLE - 20/24"
15	24"	4-#6	15" x 8" AT 6"	5	40"	12 3/8"	24"	12 3/8"	N/A	8.84"	6 3/8"	CITY HALL STYLE - 10/12"
16	24"	4-#6	15" x 8" AT 6"	5	40"	7 3/8"	24"	7 3/8"	N/A	5.50"	4"	WEST 7TH STYLE - 12"
17	24"	4-#6	15" x 8" AT 6"	5	40"	7 3/8"	24"	7 3/8"	N/A	5.54"	4"	WEST 7TH STYLE - 20"
18	24"	4-#6	15" x 8" AT 6"	5	40"	7 3/8"	24"	7 3/8"	N/A	4.55"	3"	MONTEIRA STYLE
19	24"	4-#6	15" x 8" AT 6"	5	40"	7 3/8"	24"	7 3/8"	N/A	4.55"	3"	MONTEIRA STYLE



CITY OF FORT WORTH, TEXAS
STREET LUMINAIRE POLE
FOUNDATION DETAILS

REVISED: 03-22-2016
34 41 20-D622



The seal appearing on this document was authorized by Nathan A. Hearn, P.E. 109852 on 04/02/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Half Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034. TPELS Engineering Firm #312

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) 392-8296
 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

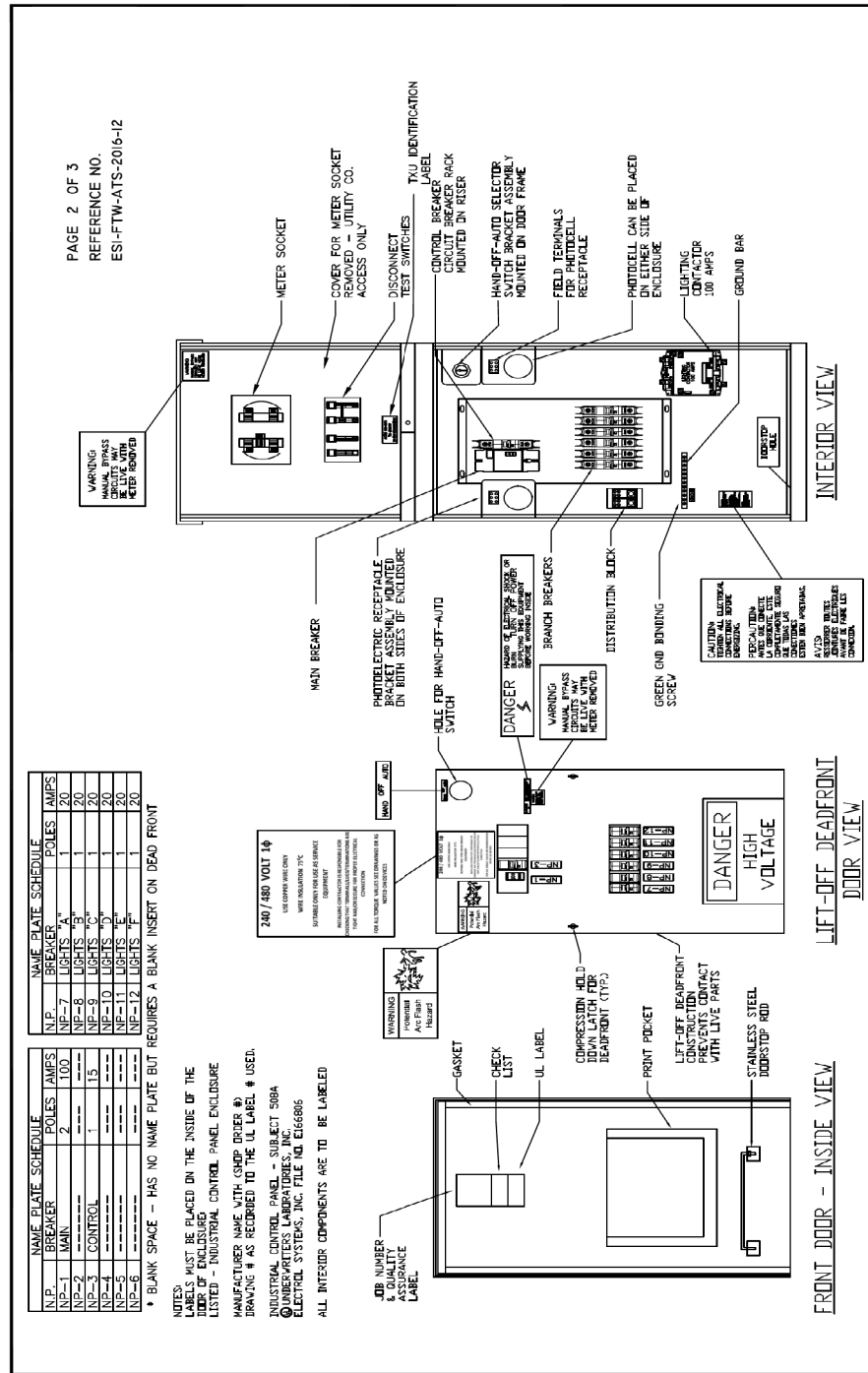
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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
ROADWAY LIGHTING DETAILS
(SHEET 1 OF 5)

DESIGNED: TMW SCALE: DATE: SHEET
 DRAWN: PTS N.T.S. 06/08/2021 147 OF 189

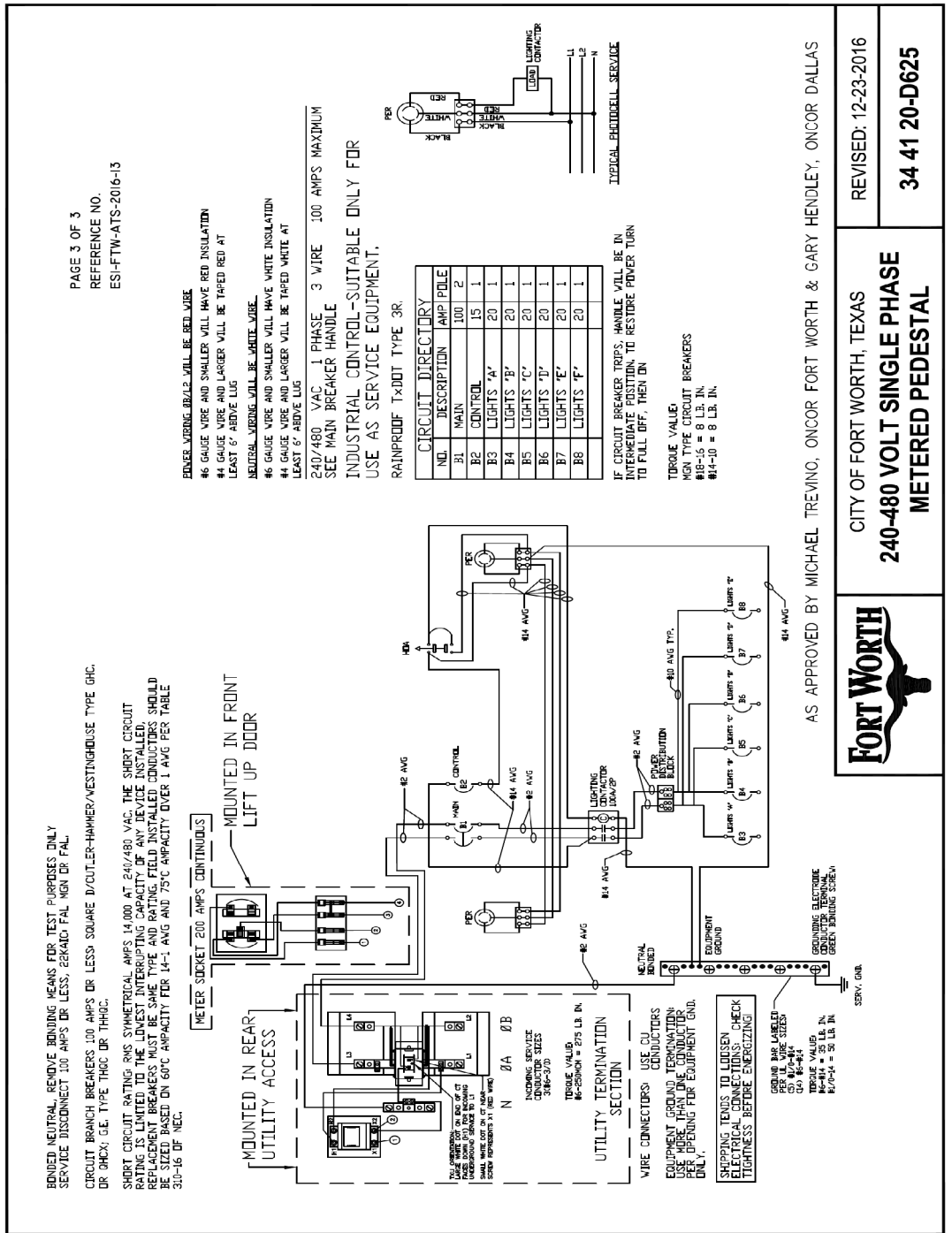


AS APPROVED BY MICHAEL TREVINO, ONCOR FORT WORTH & GARY HENDLEY, ONCOR DALLAS

FORT WORTH

CITY OF FORT WORTH, TEXAS
240-480 VOLT SINGLE PHASE METERED PEDESTAL

REVISED: 12-23-2016
34 41 20-D625



DESIGNED: TMW SCALE: DATE: SHEET
 DRAWN: PTS N.T.S. 06/08/2021 149 OF 189

8/5/2021 5:19:52 PM C652-DTSL-42487.dgn

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		

HALFF
 TBPE FIRM #F-312
 3803 PARKWOOD BLVD., STE 800
 FRISCO, TEXAS 75034-8640
 (214) 217-8994

THE seal appearing on this document was authorized by Nathan A. Hearn, P.E. 109652 on 04/26/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Half Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBPELS Engineering Firm #312.

NATHAN A. HEARN
 109652
 LICENSED PROFESSIONAL ENGINEER

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) 392-8296
 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
ROADWAY LIGHTING DETAILS
 (SHEET 3 OF 5)

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 are 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		
NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TPELS Engineering Firm #312

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) 392-8296
 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 1-800-010-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

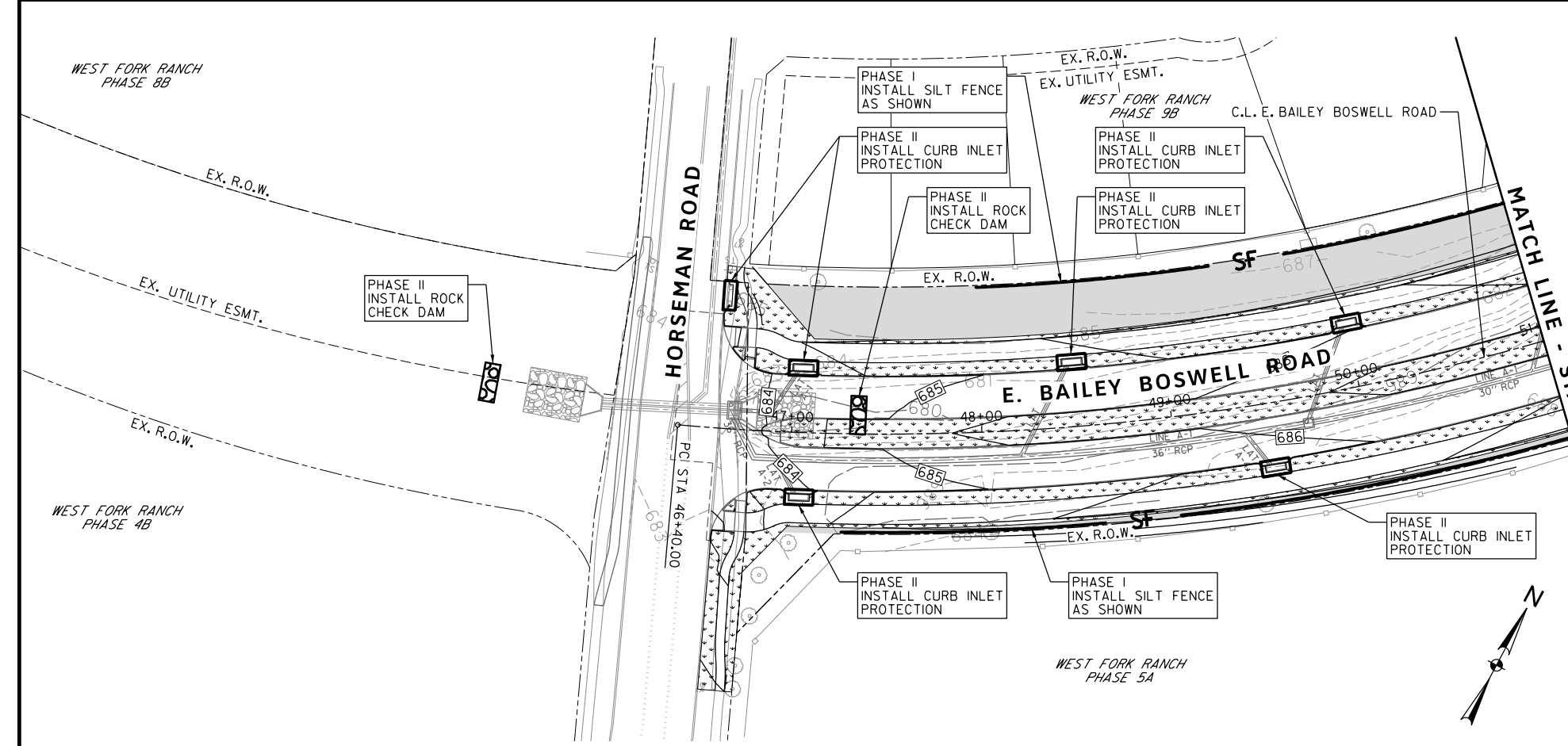
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

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

ISWM CONSTRUCTION

DESIGNED: TMW	SCALE:	DATE:	SHEET
DRAWN: PTS	N.T.S.	06/08/2021	152 OF 189



NOTES:

- SEE TYPICAL SECTION FOR LIMITS OF SODDING/SEEDING WITHIN RIGHT-OF-WAY
- EROSION CONTROL MEASURES MAY ONLY BE IN PLACE IN FRONT OF INLETS, IN CHANNELS, DRAINAGEWAY OR BORROW DITCHES AT RISK OF CONTRACTOR. CONTRACTOR SHALL REMAIN LIABLE FOR ANY DAMAGE CAUSED BY THE MEASURES, INCLUDING FLOODING DAMAGE, WHICH MAY OCCUR DUE TO BLOCKED DRAINAGE. AT THE CONCLUSION OF ANY PROJECT, ALL CHANNELS, DRAINAGEWAYS AND BORROW DITCHES IN THE WORK ZONE SHALL BE DREGGED OF ANY SEDIMENT GENERATED BY THE PROJECT OR DEPOSITED AS A RESULT OF EROSION CONTROL MEASURES.

- 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

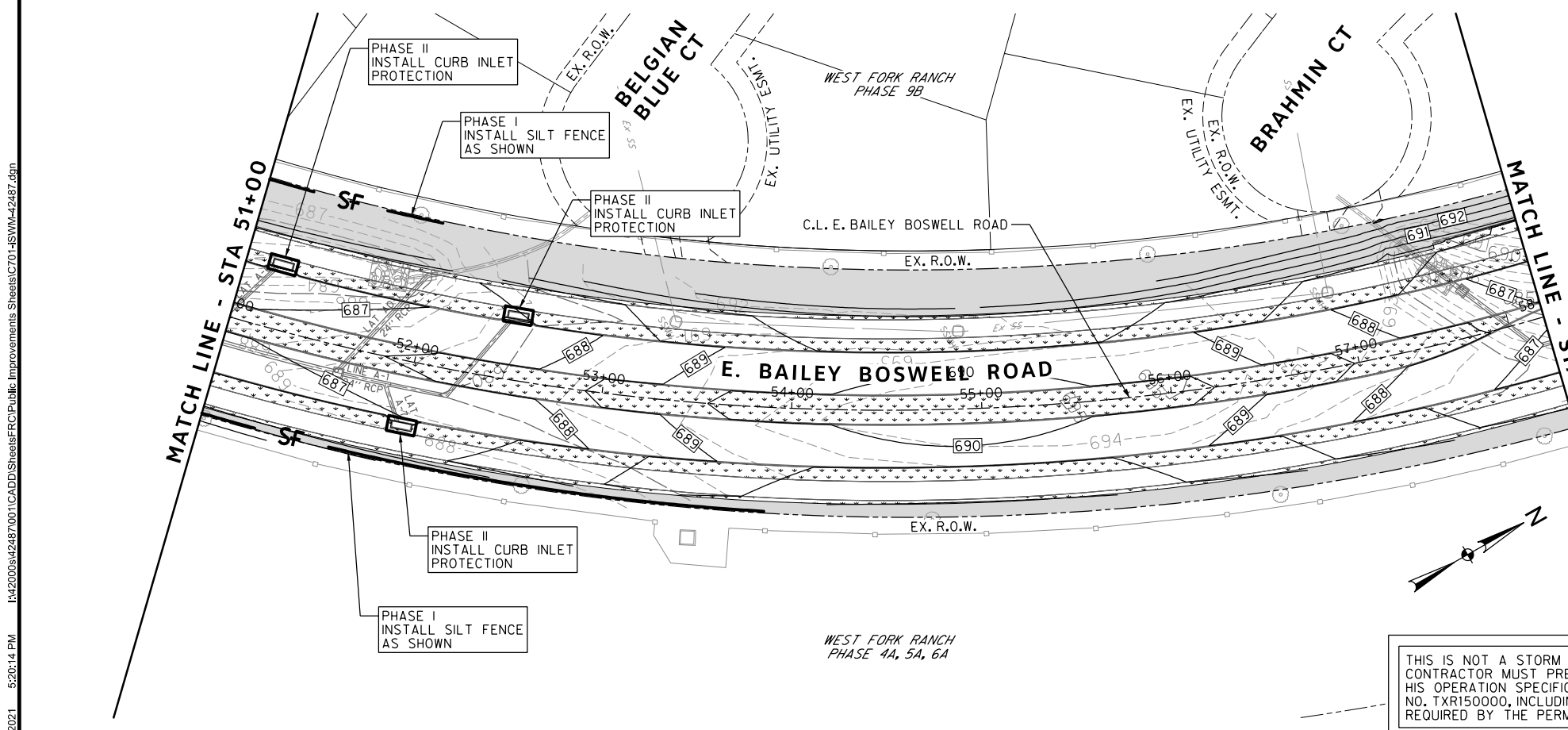
PHASE I
INSTALL EROSION CONTROLS: REINFORCED SILT FENCES, FILTER TUBE, INLET PROTECTION STABILIZED CONSTRUCTION ENTRANCE/ EXIT.

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 HAS BEEN ESTABLISHED.

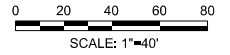
TOTAL AREA DISTURBED = 16.4 AC



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
1		
2		
3		



iSWM LEGEND

- 685 --- EXISTING CONTOUR
- 679 — PROPOSED CONTOUR
- SF - SILT FENCE
- [] CURB INLET PROTECTION
- [X] CONSTRUCTION ENTRANCE/EXIT
- [O] ROCK CHECK DAM
- [.] BERMUDA SOD
- [■] 6" TOPSOIL AND HYDROMULCH SEEDING
- [▽] 6" TOPSOIL AND SEEDING W/ SOIL RETENTION BLANKET



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104, TPEL's Engineering Firm #312

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) 392-8296
 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' 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

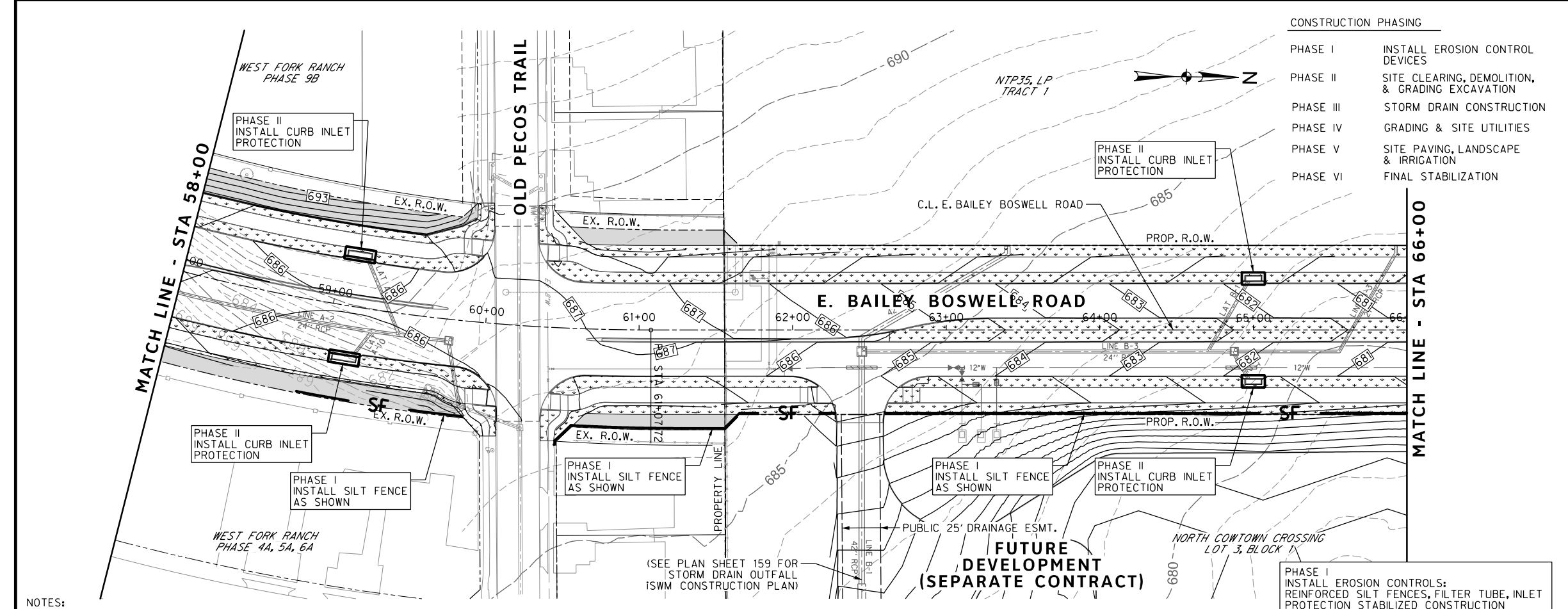
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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
iSWM CONSTRUCTION
 BEGIN TO STA 58+00

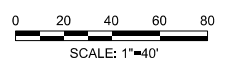
PLAN

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 153 OF 189
DRAWN: PTS			



- 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

REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



- iSWM LEGEND**
- 685 --- EXISTING CONTOUR
 - 679 --- PROPOSED CONTOUR
 - SF - SILT FENCE
 - [] CURB INLET PROTECTION
 - [X] CONSTRUCTION ENTRANCE/EXIT
 - [] ROCK CHECK DAM
 - [] BERMUDA SOD
 - [] 6" TOPSOIL AND HYDROMULCH SEEDING
 - [] 6" TOPSOIL AND SEEDING W/ SOIL RETENTION BLANKET



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, T3PELS Engineering Firm #312

- NOTES:**
- SEE TYPICAL SECTION FOR LIMITS OF SODDING/SEEDING WITHIN RIGHT-OF-WAY
 - EROSION CONTROL MEASURES MAY ONLY BE IN PLACE IN FRONT OF INLETS, IN CHANNELS, DRAINAGEWAY OR BORROW DITCHES AT RISK OF CONTRACTOR. CONTRACTOR SHALL REMAIN LIABLE FOR ANY DAMAGE CAUSED BY THE MEASURES, INCLUDING FLOODING DAMAGE, WHICH MAY OCCUR DUE TO BLOCKED DRAINAGE. AT THE CONCLUSION OF ANY PROJECT, ALL CHANNELS, DRAINAGEWAYS AND BORROW DITCHES IN THE WORK ZONE SHALL BE DREDGED OF ANY SEDIMENT GENERATED BY THE PROJECT OR DEPOSITED AS A RESULT OF EROSION CONTROL MEASURES.

- 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) 392-8296
 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: 7010405.75	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

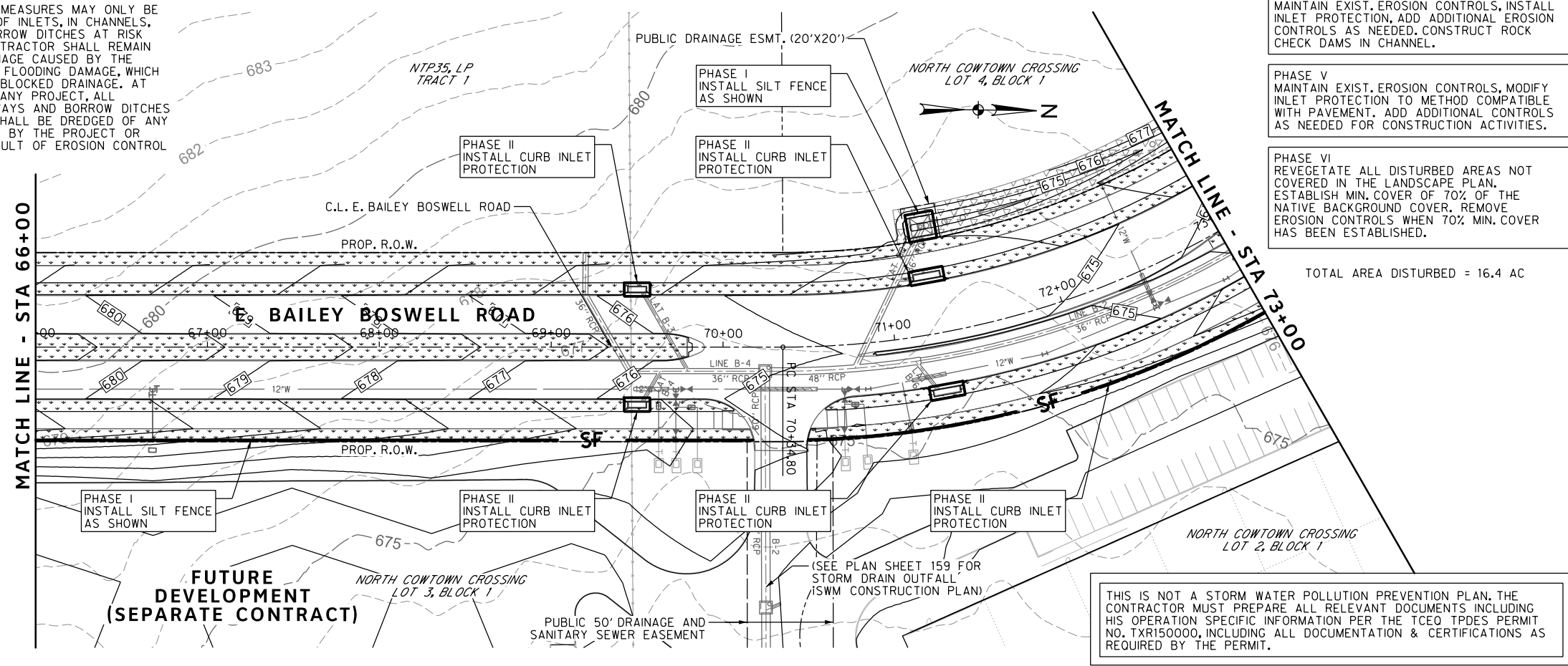
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
iSWM CONSTRUCTION
 STA 58+00 TO STA 73+00

PLAN

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 154 OF 189
DRAWN: PTS			

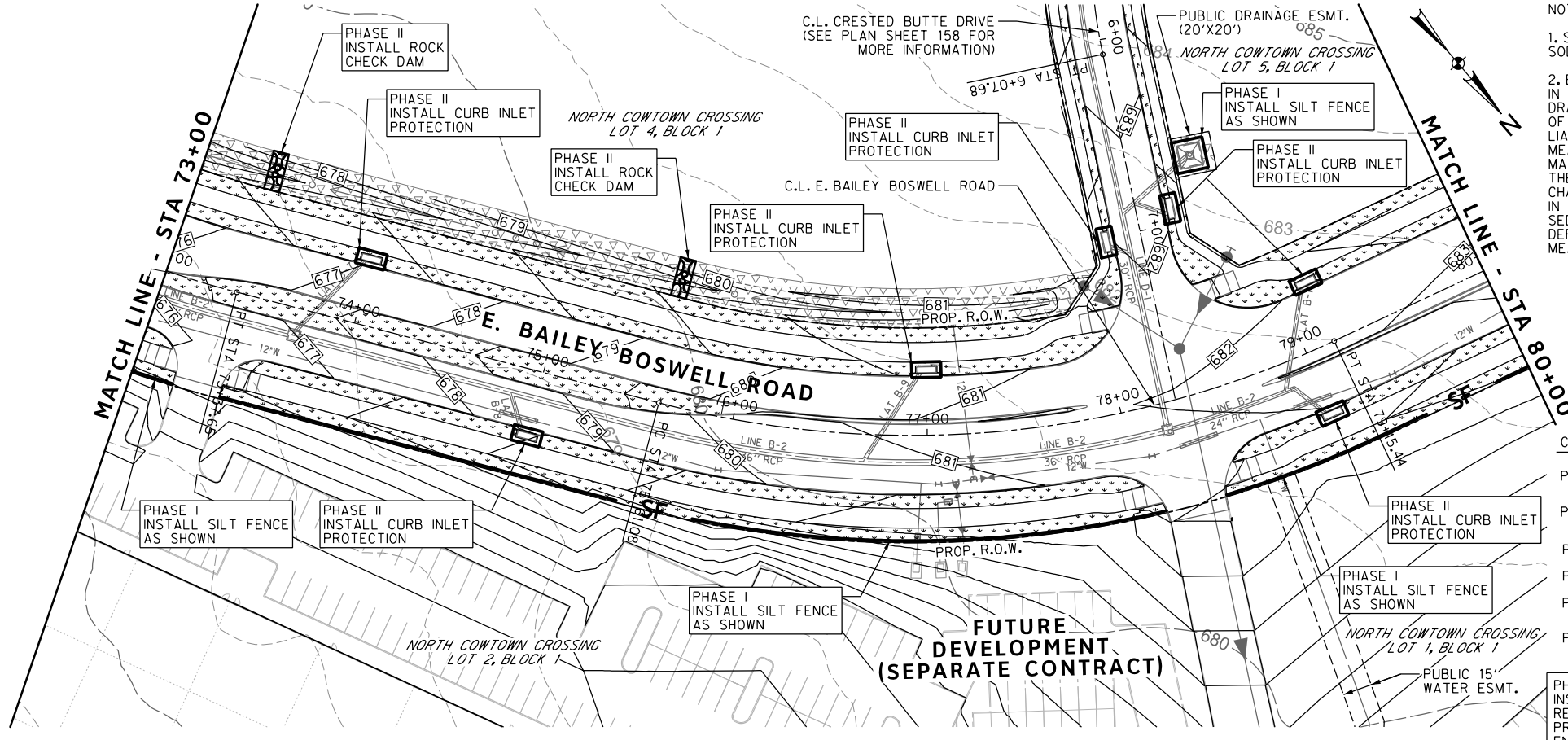
8/5/2021 5:20:15 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C702-ISMW-42487.dgn



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.

TOTAL AREA DISTURBED = 16.4 AC

8/5/2021 5:20:16 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C703-4SWM-42487.dwg



NOTES:

- SEE TYPICAL SECTION FOR LIMITS OF SODDING/SEEDING WITHIN RIGHT-OF-WAY
- EROSION CONTROL MEASURES MAY ONLY BE IN PLACE IN FRONT OF INLETS, IN CHANNELS, DRAINAGEWAY OR BORROW DITCHES AT RISK OF CONTRACTOR. CONTRACTOR SHALL REMAIN LIABLE FOR ANY DAMAGE CAUSED BY THE MEASURES, INCLUDING FLOODING DAMAGE, WHICH MAY OCCUR DUE TO BLOCKED DRAINAGE. AT THE CONCLUSION OF ANY PROJECT, ALL CHANNELS, DRAINAGEWAYS AND BORROW DITCHES IN THE WORK ZONE SHALL BE DREGDED OF ANY SEDIMENT GENERATED BY THE PROJECT OR DEPOSITED AS A RESULT OF EROSION CONTROL MEASURES.

- 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

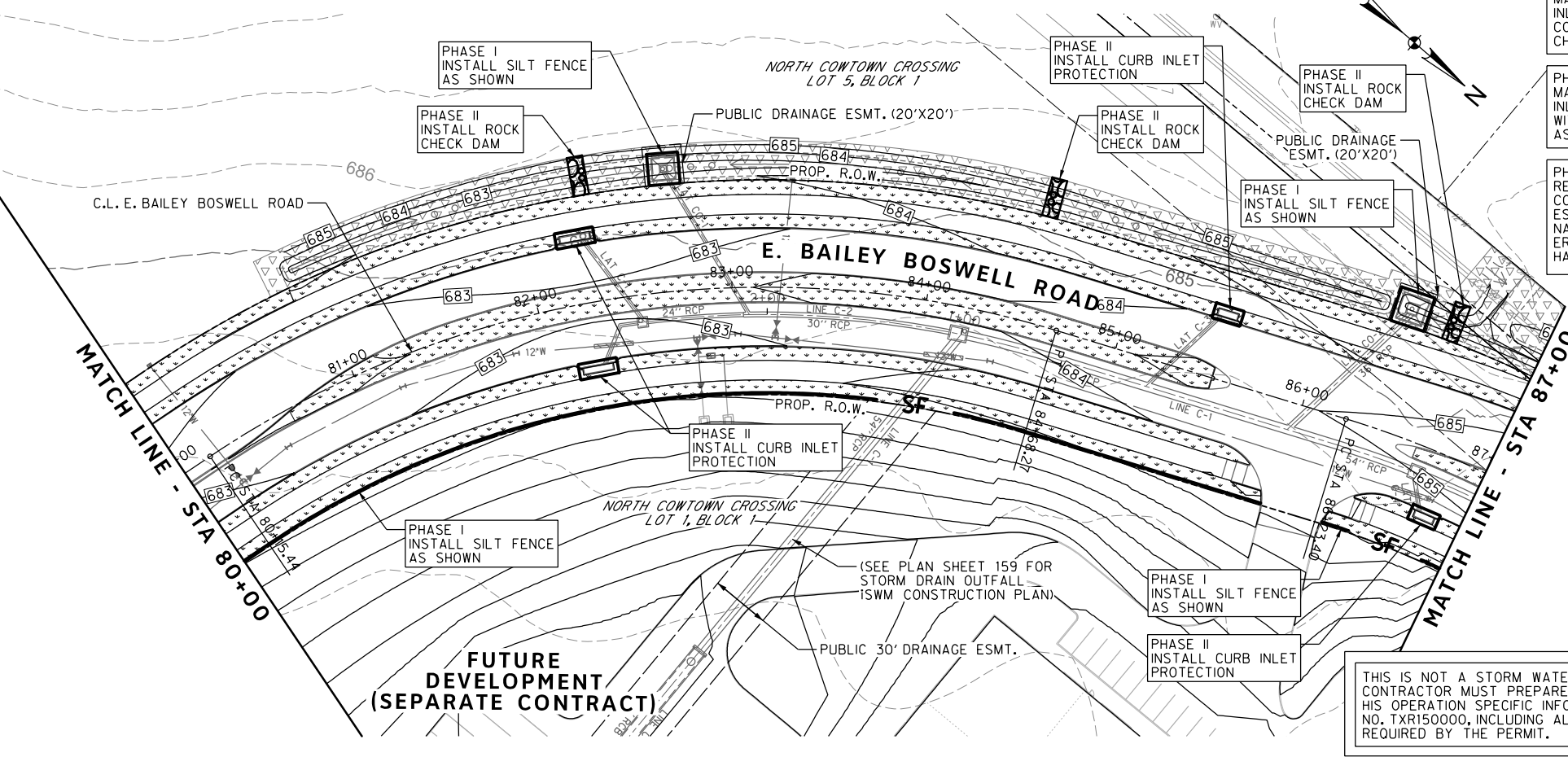
PHASE I INSTALL EROSION CONTROLS:
REINFORCED SILT FENCES, FILTER TUBE, INLET PROTECTION STABILIZED CONSTRUCTION ENTRANCE/ EXIT.

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 HAS BEEN ESTABLISHED.

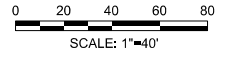
TOTAL AREA DISTURBED = 16.4 AC



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
1		
2		
3		



ISWM LEGEND

- 685 -- EXISTING CONTOUR
- 679 — PROPOSED CONTOUR
- SF — SILT FENCE
- CURB INLET PROTECTION
- ▨ CONSTRUCTION ENTRANCE/EXIT
- ⊗ ROCK CHECK DAM
- ⊘ BERMUDA SOD
- 6" TOPSOIL AND HYDROMULCH SEEDING
- ▽ 6" TOPSOIL AND SEEDING W/ SOIL RETENTION BLANKET



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TBP/ELS Engineering Firm #312

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) 392-8296
 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
ISWM CONSTRUCTION
 STA 73+00 TO STA 87+00

PLAN

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 155 OF 189
DRAWN: PTS			

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

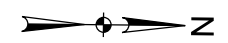
TOTAL AREA DISTURBED = 16.4 AC

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.

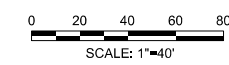
PHASE V
MAINTAIN EXIST. EROSION CONTROLS, MODIFY
INLET PROTECTION TO METHOD COMPATIBLE
WITH PAVEMENT. ADD ADDITIONAL CONTROLS
AS NEEDED FOR CONSTRUCTION ACTIVITIES.

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
HAS BEEN ESTABLISHED.



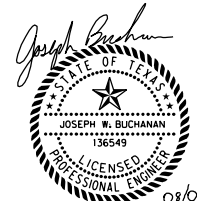
REVISIONS

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



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TBELES Engineering Firm #312

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) 392-8296
 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
 iSWM CONSTRUCTION
 STA 87+00 TO END**

PLAN

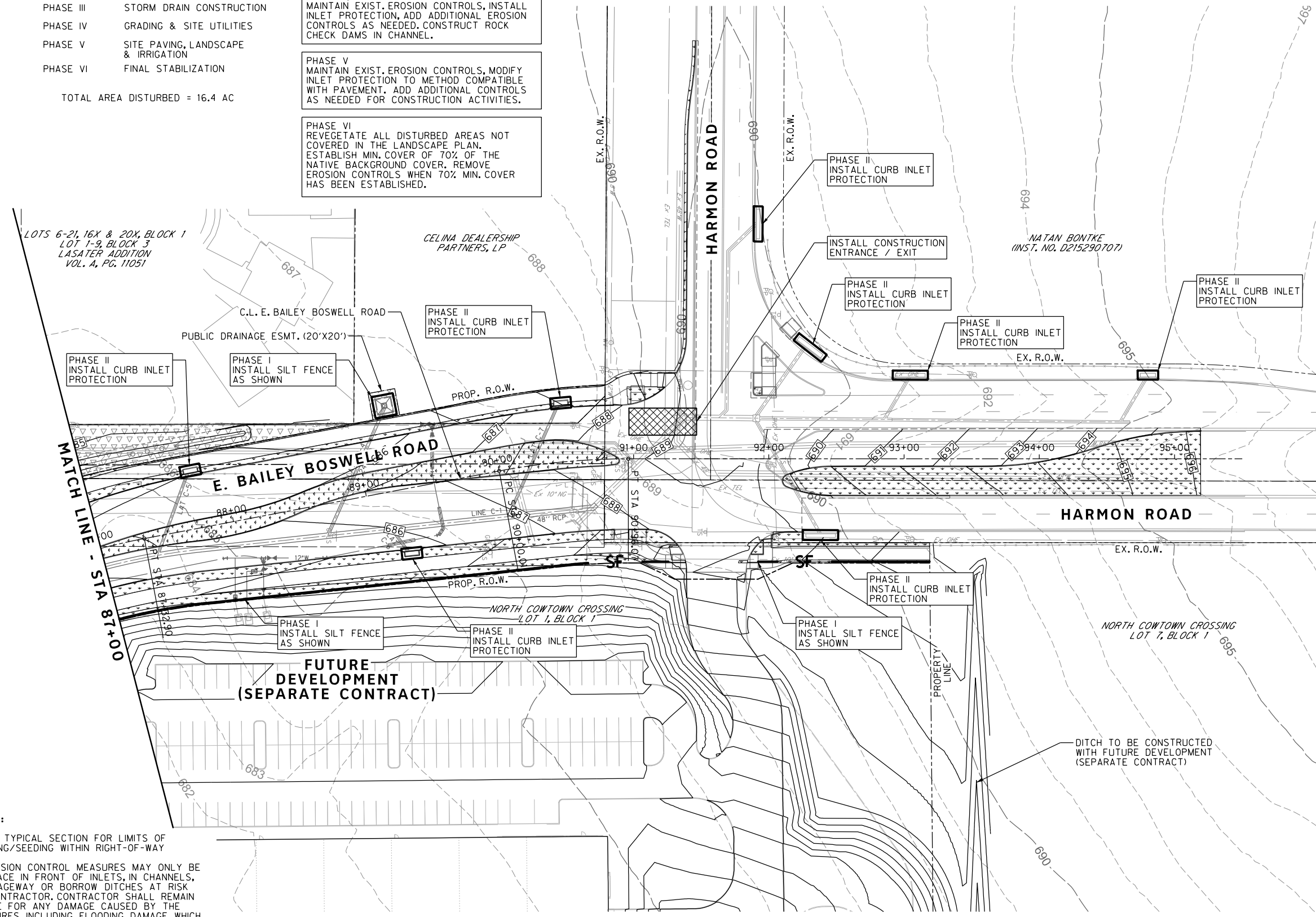
DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 156 OF 189
DRAWN: PTS			

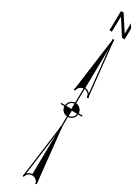
8/5/2021 5:20:18 PM I:\2020\842487\001\CADD\Sheets\FRC\Public Improvements Sheets\C7044ISWM-42487.dgn

NOTES:

- SEE TYPICAL SECTION FOR LIMITS OF SODDING/SEEDING WITHIN RIGHT-OF-WAY
- EROSION CONTROL MEASURES MAY ONLY BE IN PLACE IN FRONT OF INLETS, IN CHANNELS, DRAINAGEWAY OR BORROW DITCHES AT RISK OF CONTRACTOR. CONTRACTOR SHALL REMAIN LIABLE FOR ANY DAMAGE CAUSED BY THE MEASURES, INCLUDING FLOODING DAMAGE, WHICH MAY OCCUR DUE TO BLOCKED DRAINAGE. AT THE CONCLUSION OF ANY PROJECT, ALL CHANNELS, DRAINAGEWAYS AND BORROW DITCHES IN THE WORK ZONE SHALL BE DREDGED OF ANY SEDIMENT GENERATED BY THE PROJECT OR DEPOSITED AS A RESULT OF EROSION CONTROL MEASURES.

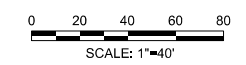
THIS IS NOT A STORM WATER POLLUTION PREVENTION PLAN. THE CONTRACTOR MUST PREPARE ALL RELEVANT DOCUMENTS INCLUDING HIS OPERATION SPECIFIC INFORMATION PER THE TCEQ TPDES PERMIT NO. TXR150000, INCLUDING ALL DOCUMENTATION & CERTIFICATIONS AS REQUIRED BY THE PERMIT.





REVISIONS

NO.	DESCRIPTION	DATE
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



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBEELS Engineering Firm #312.

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) 392-8296
 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

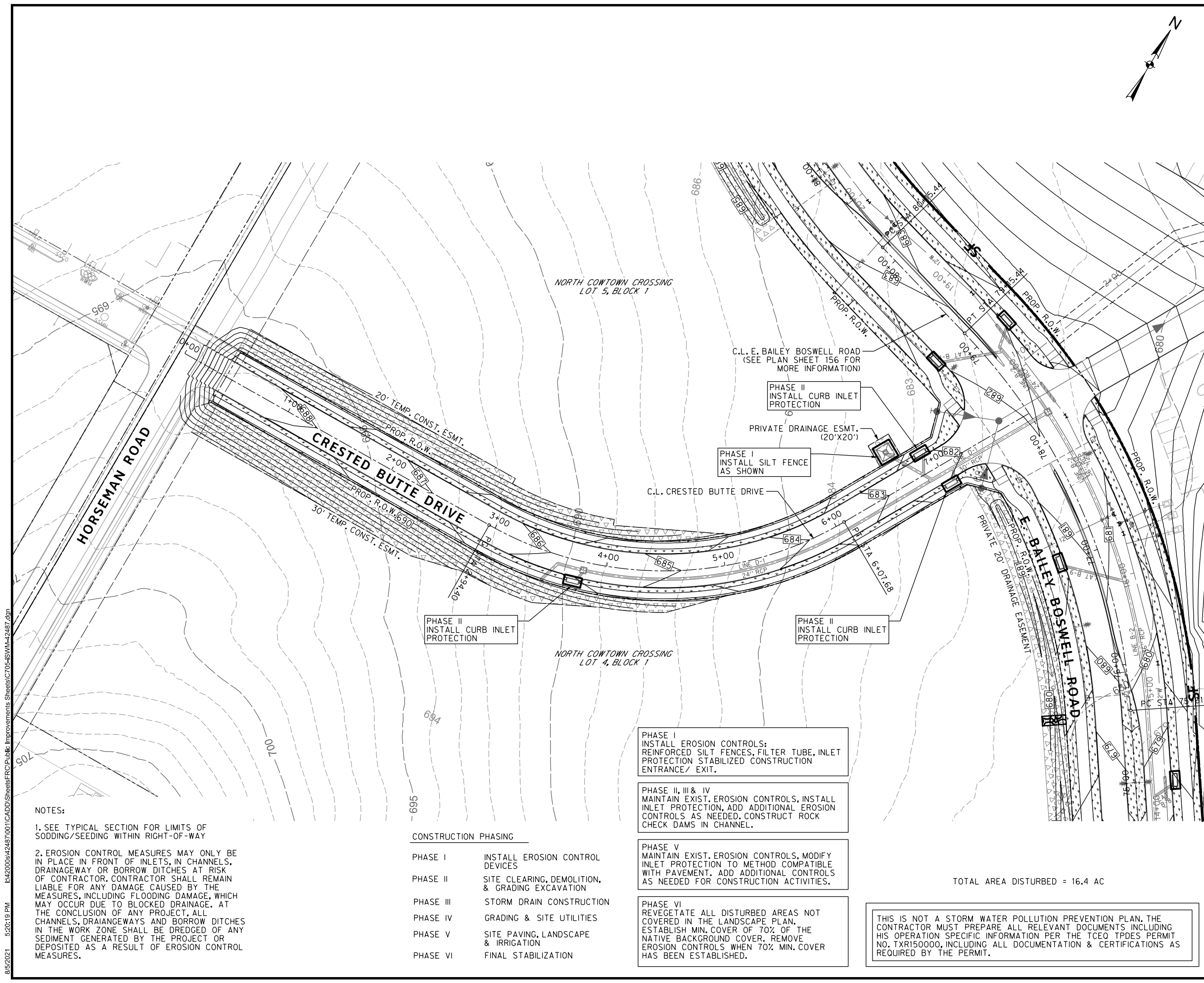
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD FROM HORSEMAN ROAD TO HARMON ROAD
iSWM CONSTRUCTION
 CRESTED BUTTE DRIVE

PLAN

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 157 OF 189
DRAWN: PTS			



NOTES:
 1. SEE TYPICAL SECTION FOR LIMITS OF SODDING/SEEDING WITHIN RIGHT-OF-WAY
 2. EROSION CONTROL MEASURES MAY ONLY BE IN PLACE IN FRONT OF INLETS, IN CHANNELS, DRAINAGEWAY OR BORROW DITCHES AT RISK OF CONTRACTOR. CONTRACTOR SHALL REMAIN LIABLE FOR ANY DAMAGE CAUSED BY THE MEASURES, INCLUDING FLOODING DAMAGE, WHICH MAY OCCUR DUE TO BLOCKED DRAINAGE. AT THE CONCLUSION OF ANY PROJECT, ALL CHANNELS, DRAINAGEWAYS AND BORROW DITCHES IN THE WORK ZONE SHALL BE DREDGED OF ANY SEDIMENT GENERATED BY THE PROJECT OR DEPOSITED AS A RESULT OF EROSION CONTROL MEASURES.

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

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.

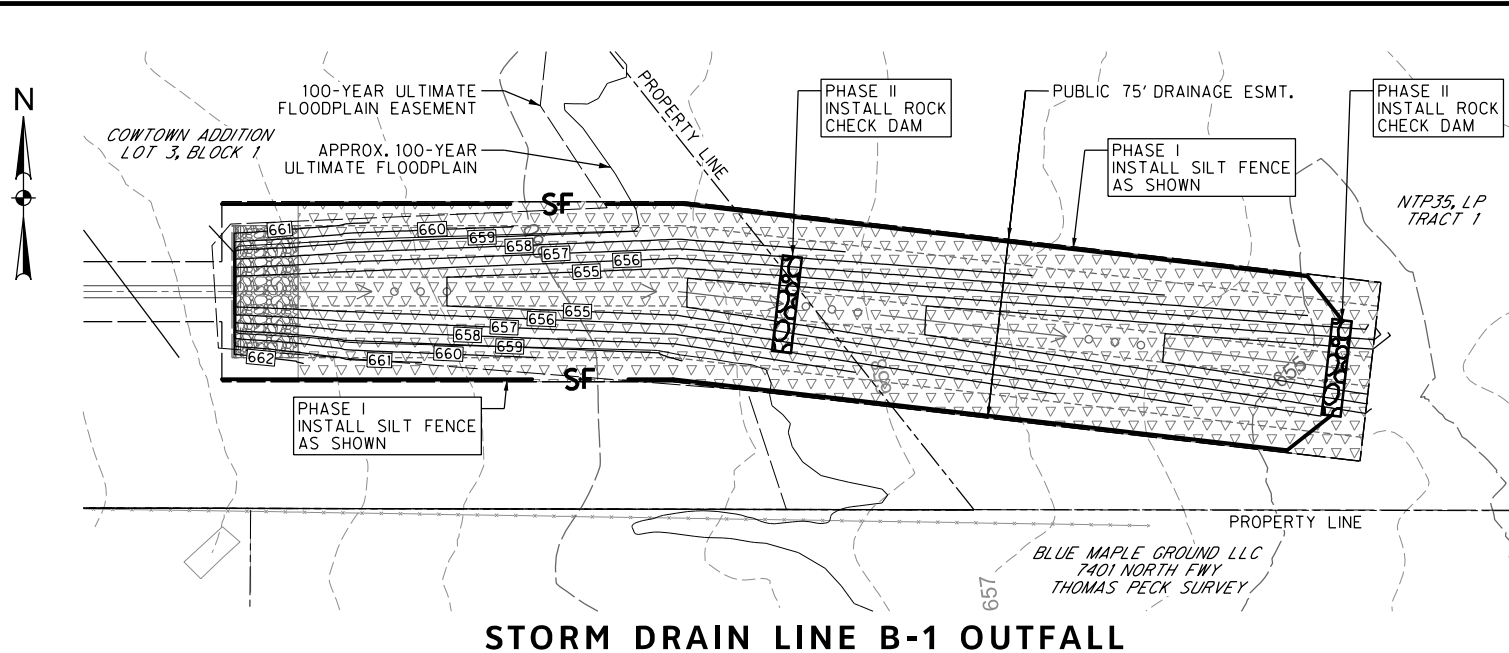
PHASE VI
 REVEGETATE ALL DISTURBED AREAS NOT COVERED IN THE LANDSCAPE PLAN. ESTABLISH MIN. COVER OF 70% OF THE NATIVE BACKGROUND COVER. REMOVE EROSION CONTROLS WHEN 70% MIN. COVER HAS BEEN ESTABLISHED.

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.

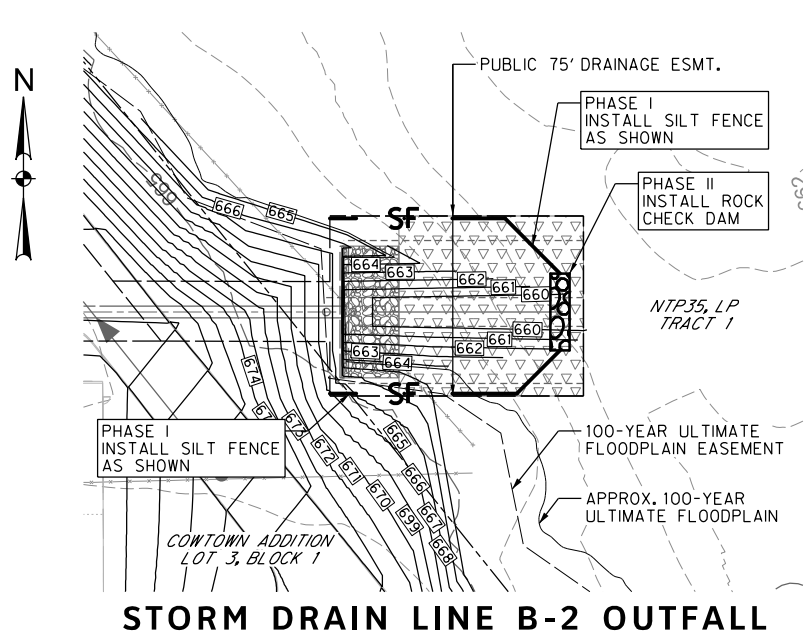
TOTAL AREA DISTURBED = 16.4 AC

8/5/2021 5:20:19 PM I:\2020\8\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C7054SWM-42487.dgn

8/5/2021 5:20:20 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C706-ISWM-42487.dgn



STORM DRAIN LINE B-1 OUTFALL



STORM DRAIN LINE B-2 OUTFALL

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

NOTES:

1. SEE TYPICAL SECTION FOR LIMITS OF SODDING/SEEDING WITHIN RIGHT-OF-WAY
2. EROSION CONTROL MEASURES MAY ONLY BE IN PLACE IN FRONT OF INLETS, IN CHANNELS, DRAINAGEWAY OR BORROW DITCHES AT RISK OF CONTRACTOR. CONTRACTOR SHALL REMAIN LIABLE FOR ANY DAMAGE CAUSED BY THE MEASURES, INCLUDING FLOODING DAMAGE, WHICH MAY OCCUR DUE TO BLOCKED DRAINAGE. AT THE CONCLUSION OF ANY PROJECT, ALL CHANNELS, DRAINAGEWAYS AND BORROW DITCHES IN THE WORK ZONE SHALL BE DREGGED OF ANY SEDIMENT GENERATED BY THE PROJECT OR DEPOSITED AS A RESULT OF EROSION CONTROL MEASURES.

TOTAL AREA DISTURBED = 16.4 AC

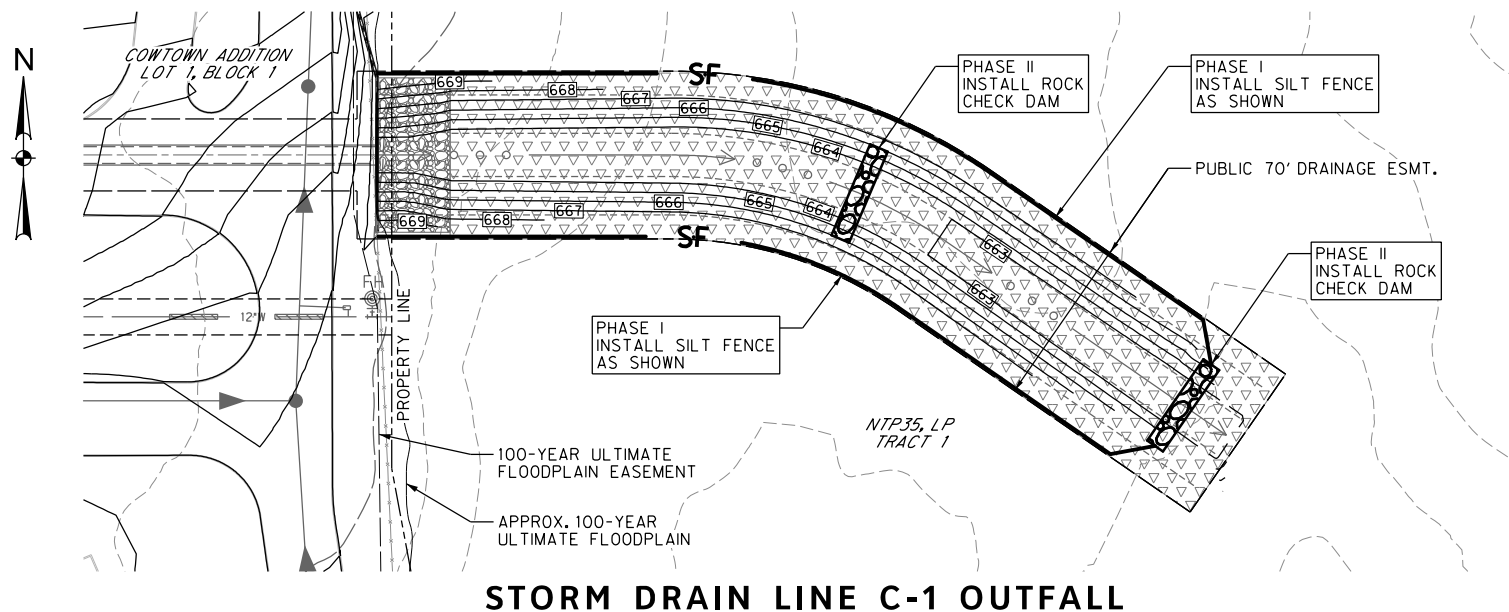
PHASE I
INSTALL EROSION CONTROLS:
REINFORCED SILT FENCES, FILTER TUBE, INLET
PROTECTION STABILIZED CONSTRUCTION
ENTRANCE/ EXIT.

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
HAS BEEN ESTABLISHED.

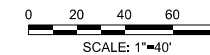
THIS IS NOT A STORM WATER POLLUTION PREVENTION PLAN. THE CONTRACTOR MUST PREPARE ALL RELEVANT DOCUMENTS INCLUDING HIS OPERATION SPECIFIC INFORMATION PER THE TCEQ TPDES PERMIT NO. TXR150000, INCLUDING ALL DOCUMENTATION & CERTIFICATIONS AS REQUIRED BY THE PERMIT.



STORM DRAIN LINE C-1 OUTFALL

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



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104, TBPELS Engineering Firm #312.

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) 392-8296
 - 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

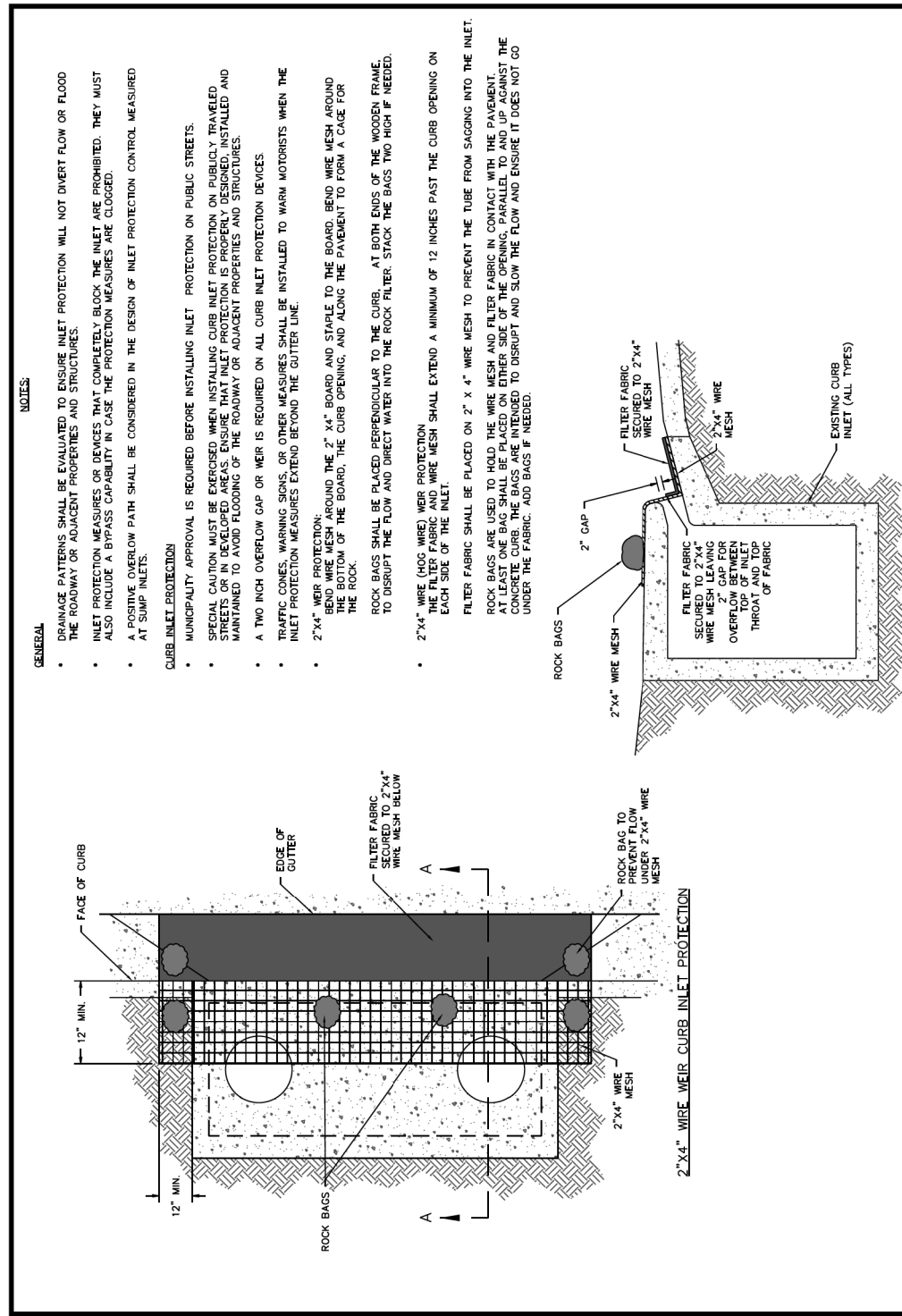
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT
 SERVICES

TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
iSWM CONSTRUCTION
 STORM DRAIN OUTFALLS

PLAN

DESIGNED: TMW	SCALE: 1"=40'	DATE: 06/08/2021	SHEET 158 OF 189
DRAWN: PTS			



FORT WORTH

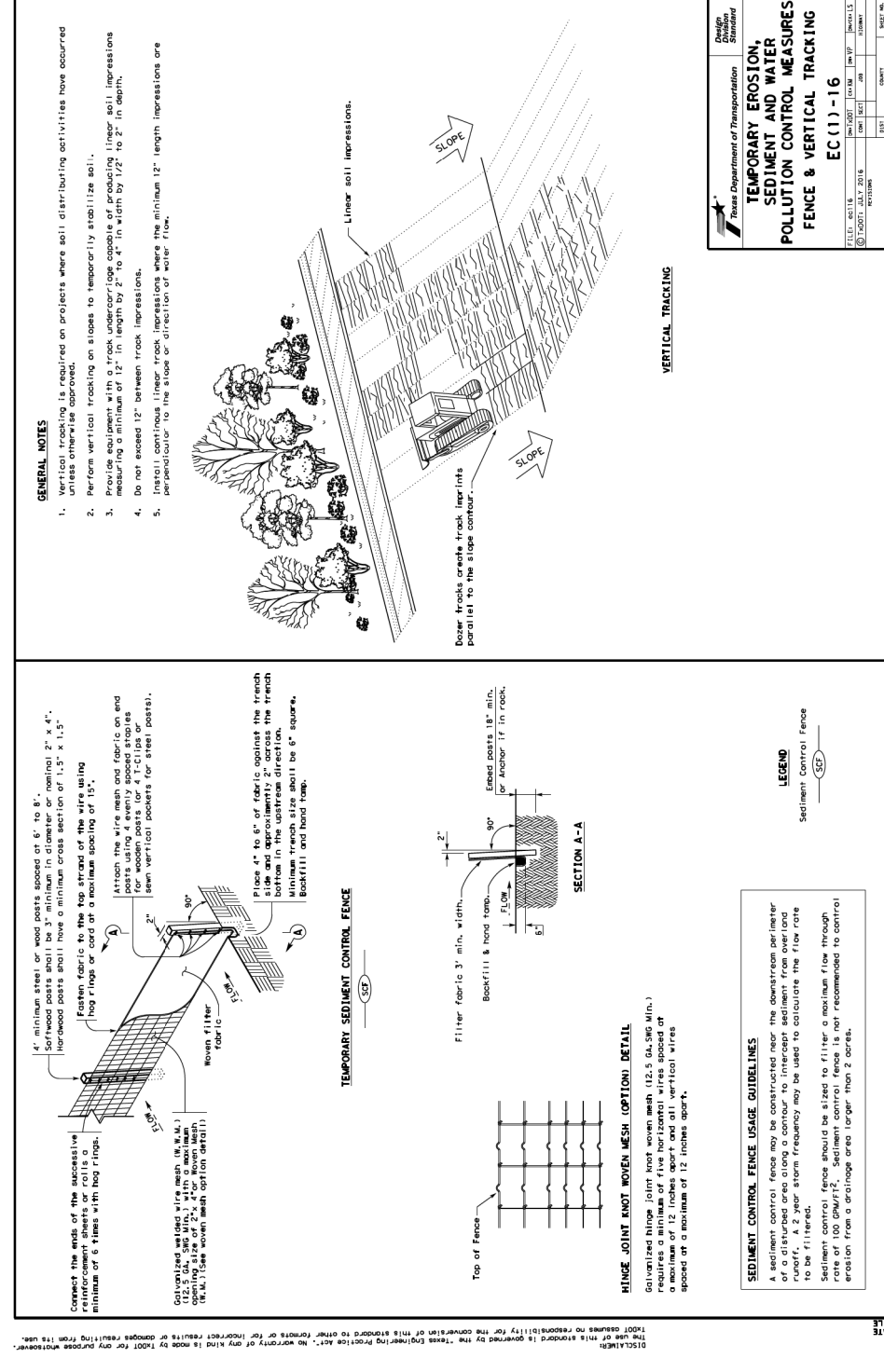
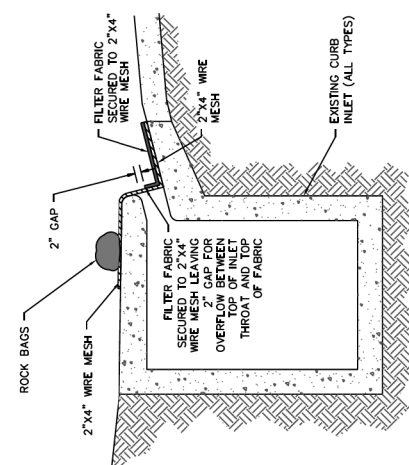
CITY OF FORT WORTH, TEXAS

2"X4" WIRE WEIR CURB INLET PROTECTION

REVISED 04-30-2021

01 57 13-D430

- NOTES:**
- 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 PLACED ON EITHER SIDE OF THE OPENING, PARALLEL TO AND UP AGAINST THE INLET. THE BAGS SHOULD BE PLACED TO DISRUPT AND SLOW THE FLOW AND ENSURE IT DOES NOT GO UNDER THE FABRIC. ADD BAGS IF NEEDED.



Texas Department of Transportation	
Statewide Construction	
TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES FENCE & VERTICAL TRACKING EC (1) - 16	
DATE: 08/18/2021	SCALE: 1/8" = 1'-0"
DRAWN: JWB	CHECKED: JWB
DATE: 08/18/2021	SCALE: 1/8" = 1'-0"
DRAWN: JWB	CHECKED: JWB

REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		

HALFF
 TBPE FIRM #F-312
 3803 PARKWOOD BLVD., STE 800
 FORT WORTH, TEXAS 76104-8640
 (214) 217-8994

Joseph W. Buchanan

STATE OF TEXAS
 LICENSED PROFESSIONAL ENGINEER
 136549
 08/05/21

The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104, TBPELS Engineering Firm #312

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) 392-8296
 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' 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: 687.90
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

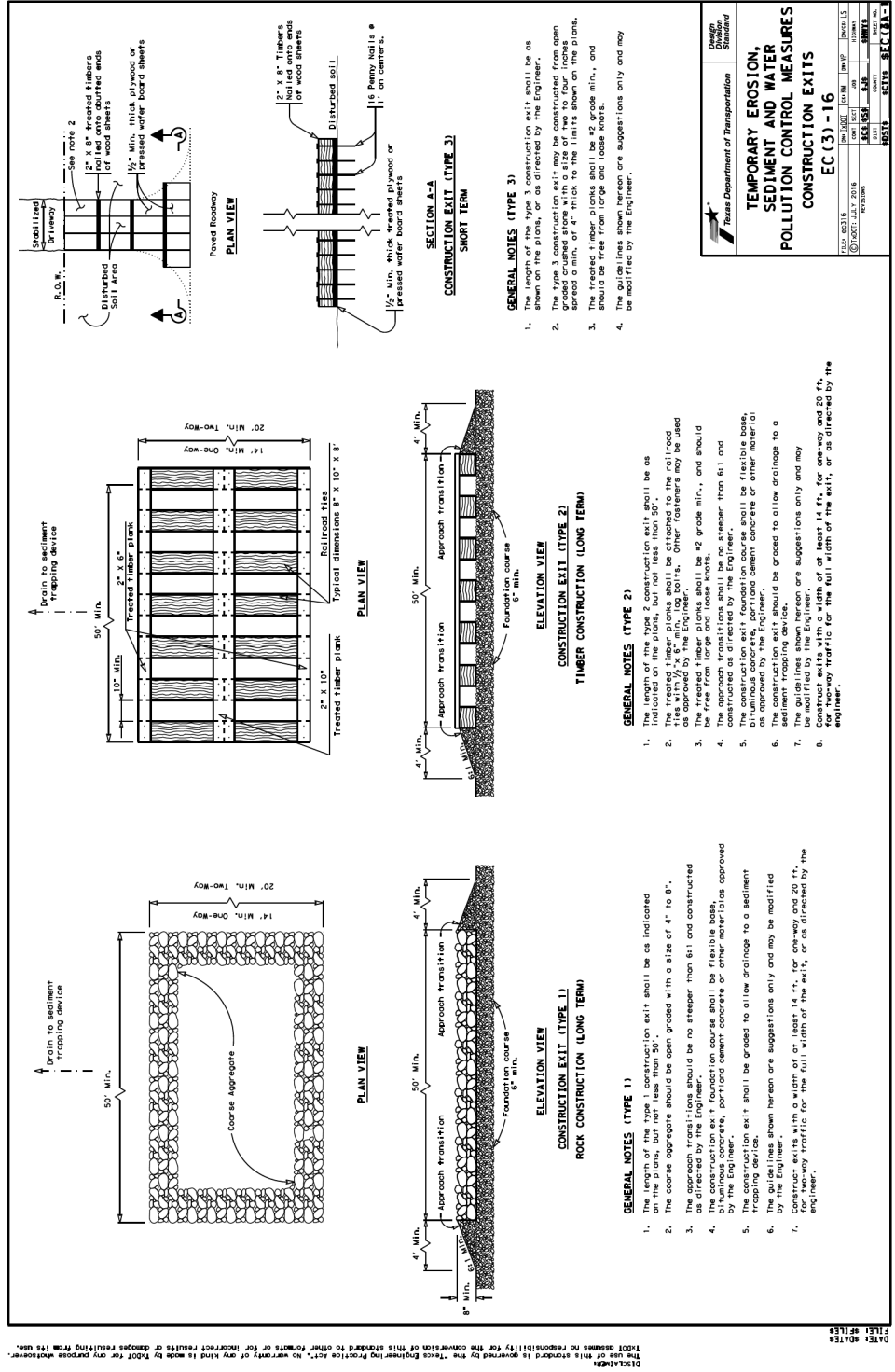
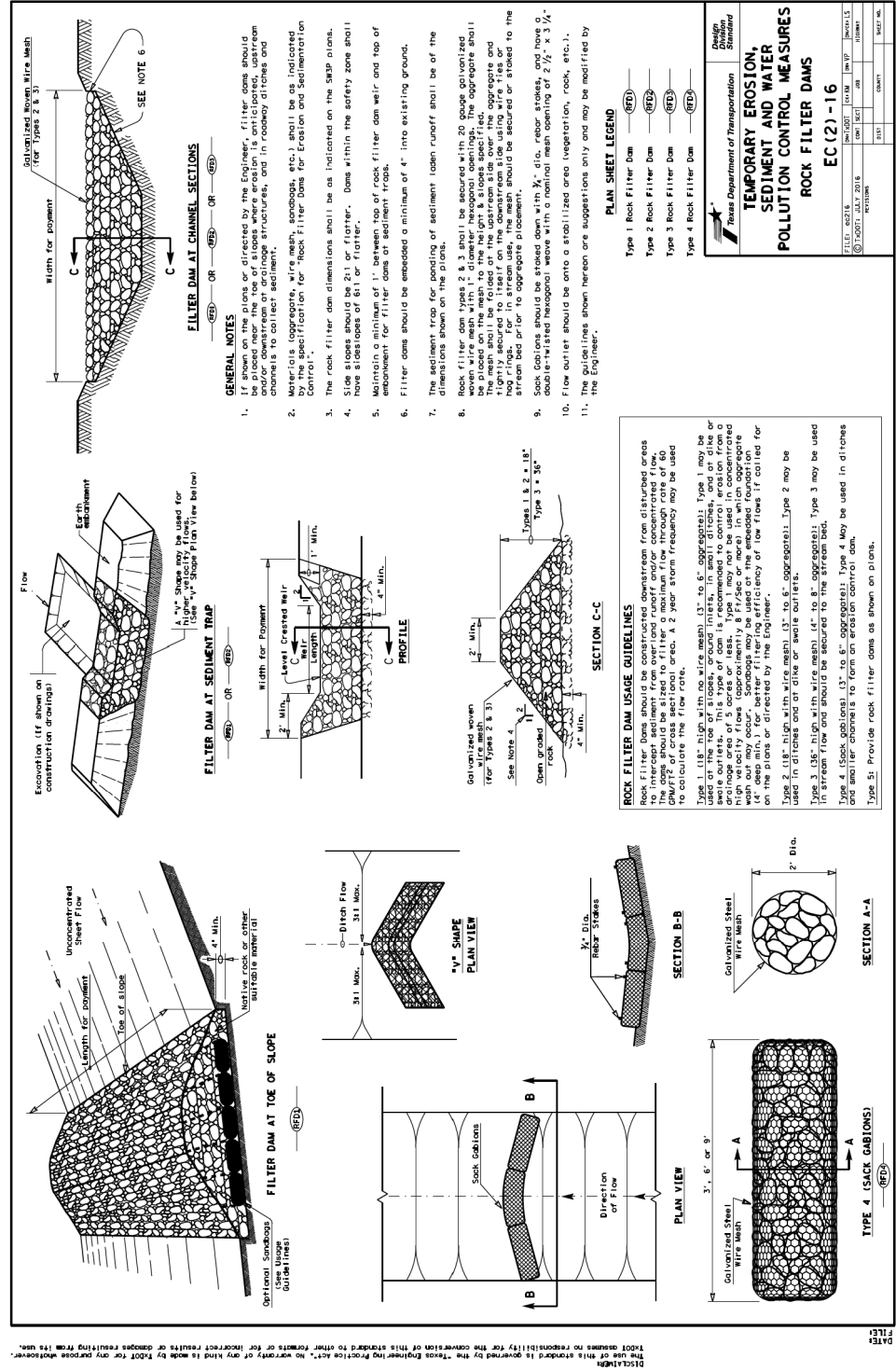
TRANSPORTATION AND DEVELOPMENT SERVICES

TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD

EROSION CONTROL DETAILS
 (SHEET 1 OF 3)

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 159 OF 189
DRAWN: PTS			



REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES CONSTRUCTION EXITS EC (2) - 16

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES CONSTRUCTION EXITS EC (3) - 16

DATE: 08/05/21
DRAWN: JWB
CHECKED: JWB
DATE: 08/05/21
DRAWN: JWB
CHECKED: JWB



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TRB/E/S Engineering Firm #312

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) 392-8296
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' 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

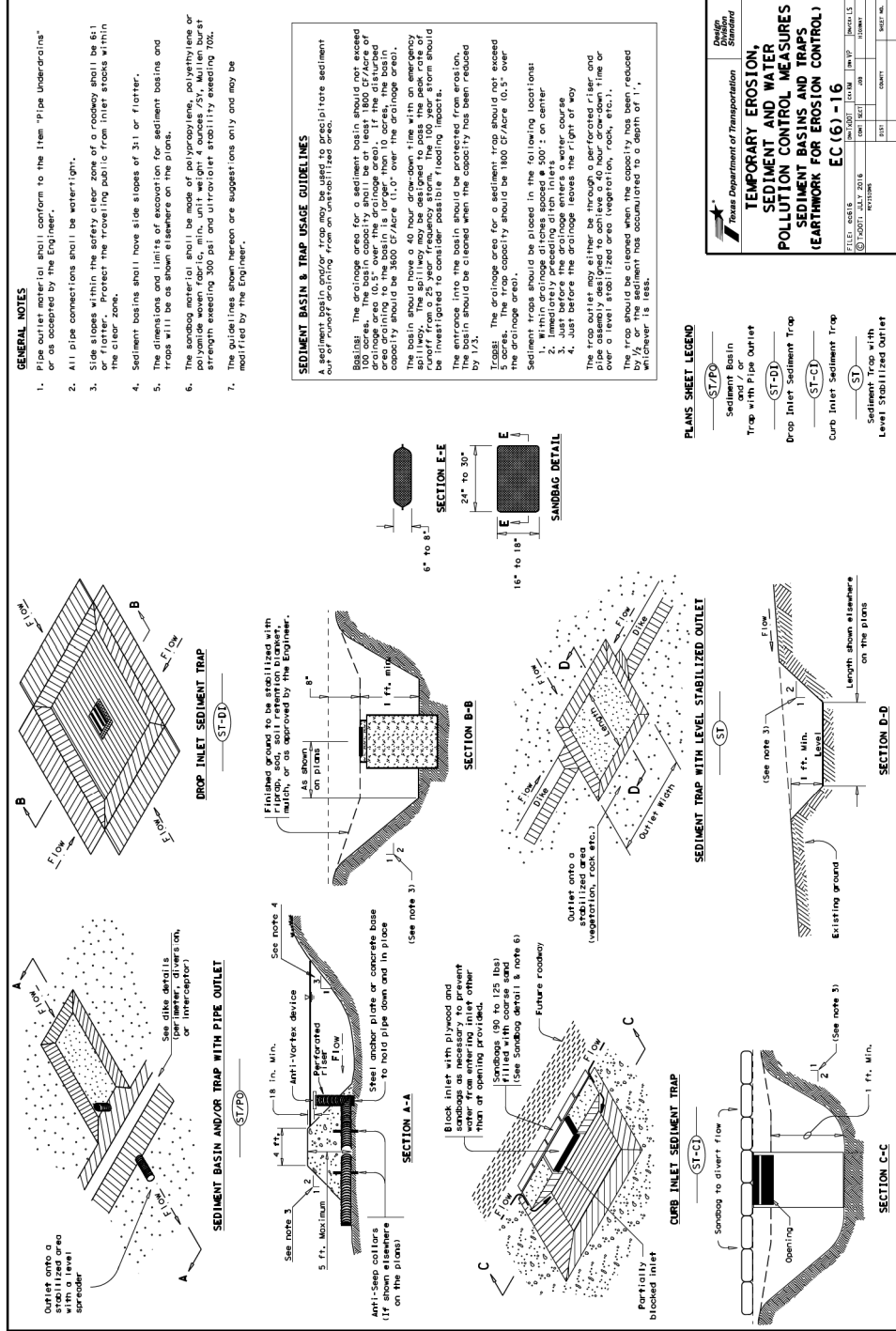
DOE # K-2840
CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
MAP NO. XXXX-XXX

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
EROSION CONTROL DETAILS
(SHEET 2 OF 3)

DESIGNED: TMW	SCALE:	DATE:	SHEET
DRAWN: PTS	N.T.S.	06/08/2021	160 OF 189

DISCLAIMER: THE USER OF THIS DRAWING ASSUMES ALL LIABILITY FOR THE CONSTRUCTION OF THIS PROJECT. THE ENGINEER'S RESPONSIBILITY IS LIMITED TO THE DESIGN OF THE EROSION CONTROL MEASURES SHOWN ON THIS DRAWING. THE USER OF THIS DRAWING ASSUMES ALL LIABILITY FOR THE CONSTRUCTION OF THIS PROJECT. THE ENGINEER'S RESPONSIBILITY IS LIMITED TO THE DESIGN OF THE EROSION CONTROL MEASURES SHOWN ON THIS DRAWING.



TEMPORARY EROSION, SEDIMENT CONTROL MEASURES (EARTHWORK FOR EROSION CONTROL)

EC (6) - 16

FILED: 08/05/21
 08/05/21 JUL 20 2021
 08/05/21 JUL 20 2021
 08/05/21 JUL 20 2021

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		

HALFF
 TBPE FIRM #F-312
 3803 PARKWOOD BLVD., STE 800
 FORT WORTH, TEXAS 76104-8640
 (214) 217-8994



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TBPELS Engineering Firm #312

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) 392-8296
 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

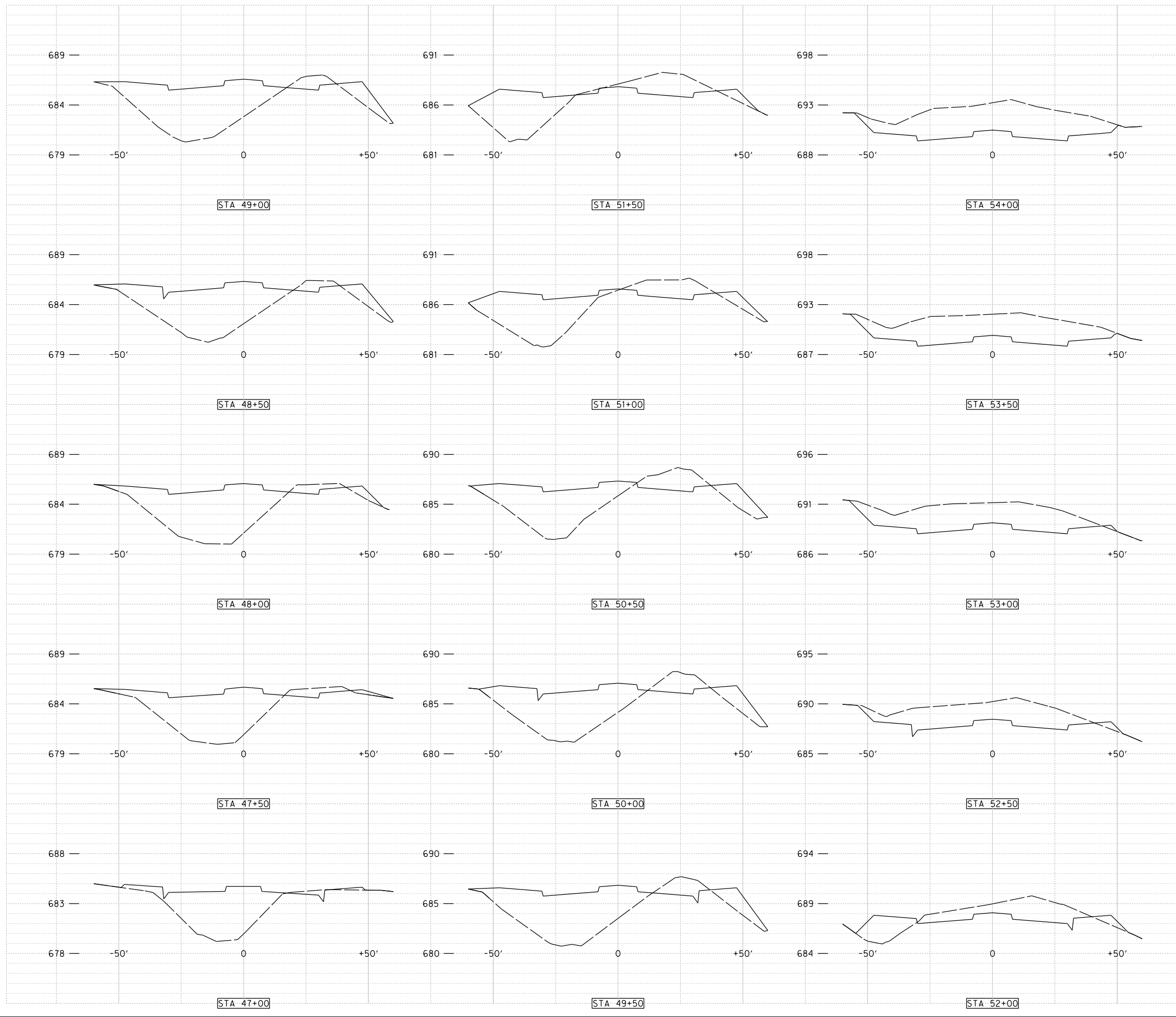
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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
EROSION CONTROL DETAILS
 (SHEET 3 OF 3)

DESIGNED: TMW	SCALE:	DATE:	SHEET
DRAWN: PTS	N.T.S.	06/08/2021	161 OF 189

8/5/2021 5:20:39 PM I:\42008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C801-XS-42487.dgn



REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBPEIS Engineering Firm #312

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) 392-8296
 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

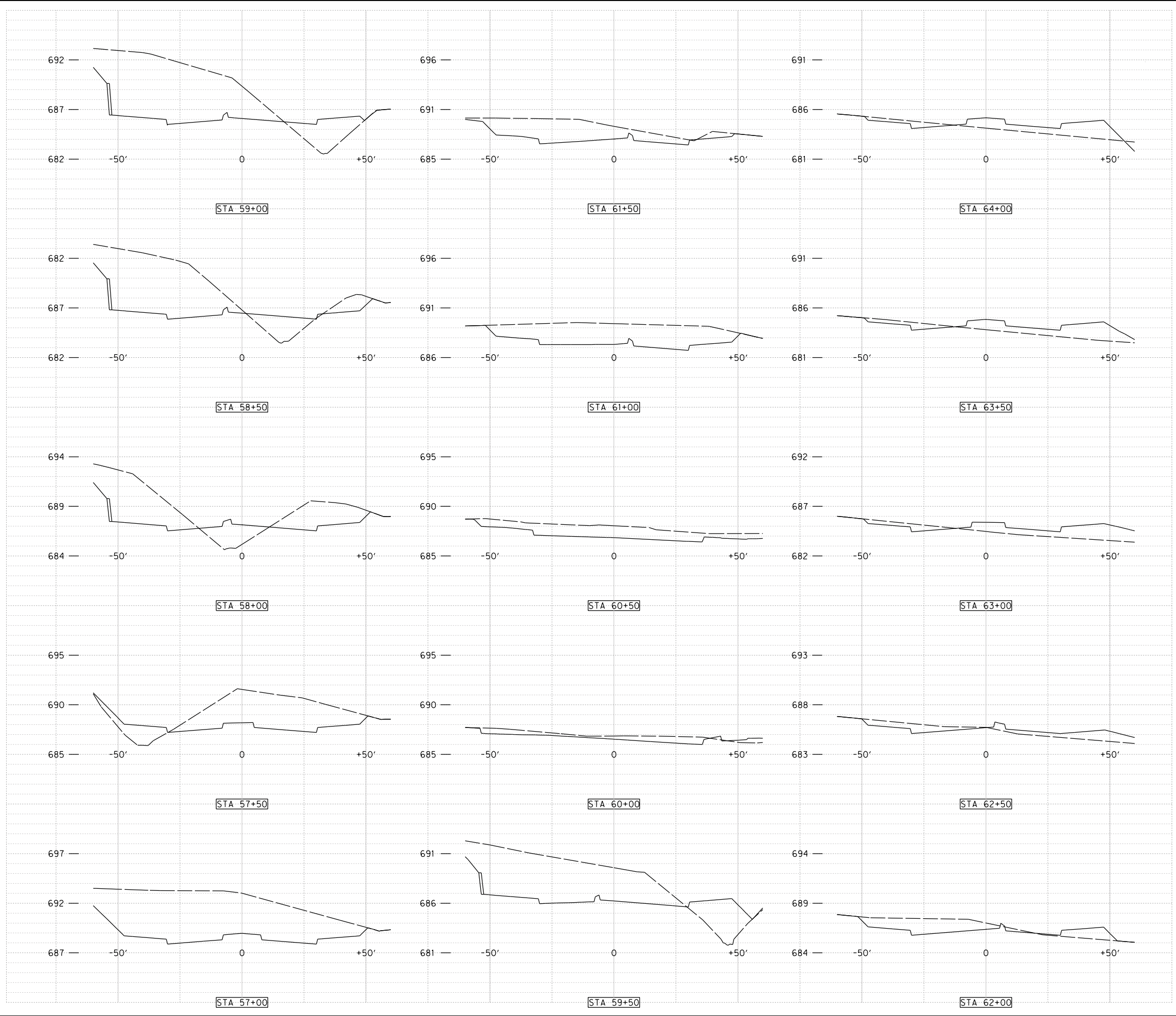
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
PAVING CROSS SECTIONS
 (SHEET 1 OF 5)

BAILEY BOSWELL ROAD

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 162 OF 189
DRAWN: PTS			

8/5/2021 5:20:40 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C802-XS-42487.dgn



REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBPEIS Engineering Firm #312

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) 392-8296
 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' 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

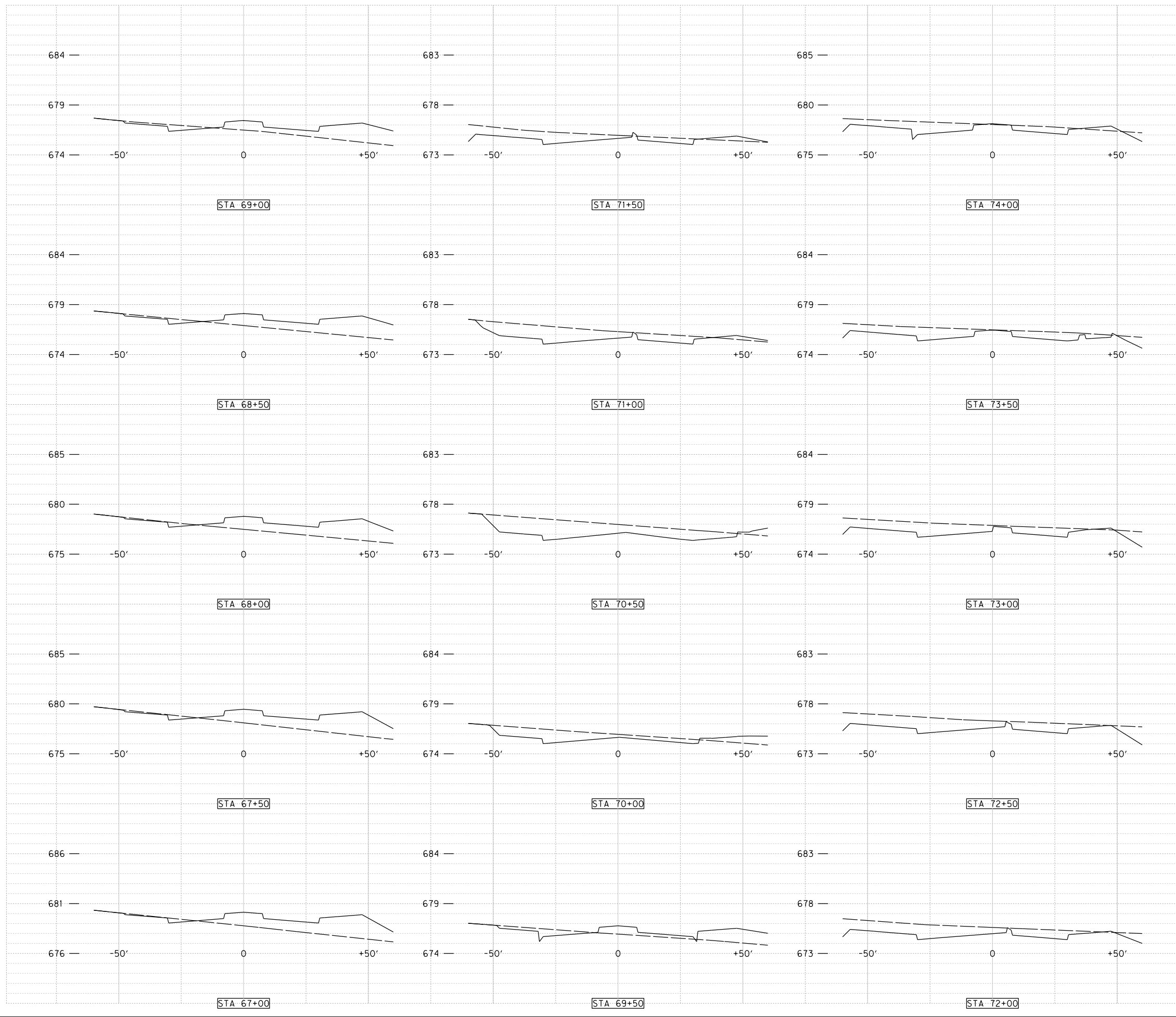
TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
PAVING CROSS SECTIONS
 (SHEET 2 OF 5)

BAILEY BOSWELL ROAD

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 163 OF 189
DRAWN: PTS			

8/5/2021 5:20:40 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C803-XS-42487.dgn



REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104, TBPEIS Engineering Firm #312

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) 392-8296
 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

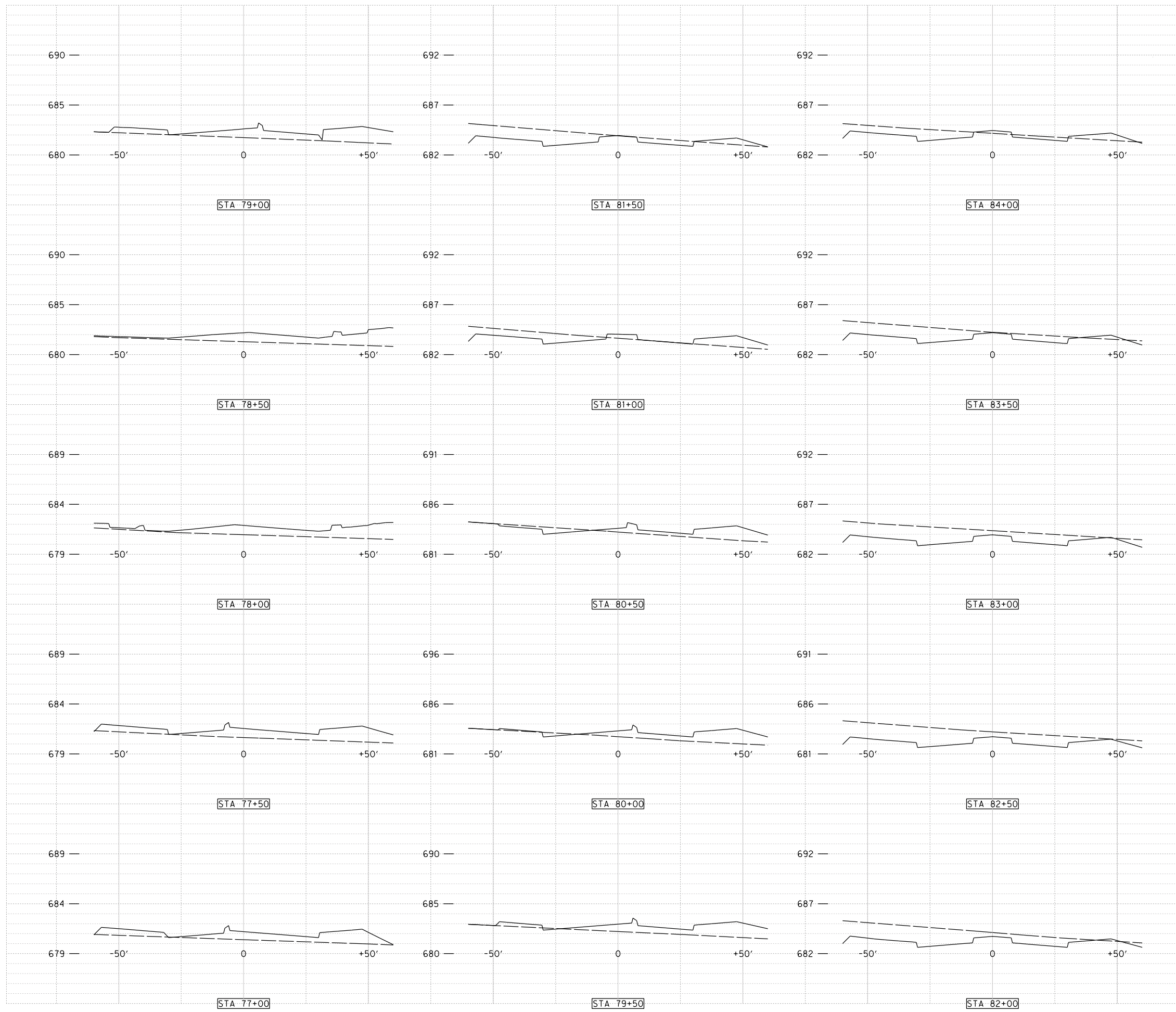
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
PAVING CROSS SECTIONS
 (SHEET 3 OF 5)

BAILEY BOSWELL ROAD

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 164 OF 189
DRAWN: PTS			

8/5/2021 5:20:41 PM I:\420008\42487\001\CADD\Sheets\FRC\Public Improvements Sheets\C804-XS-42487.dgn



REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104, TBPEIS Engineering Firm #312

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) 392-8296
 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' 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

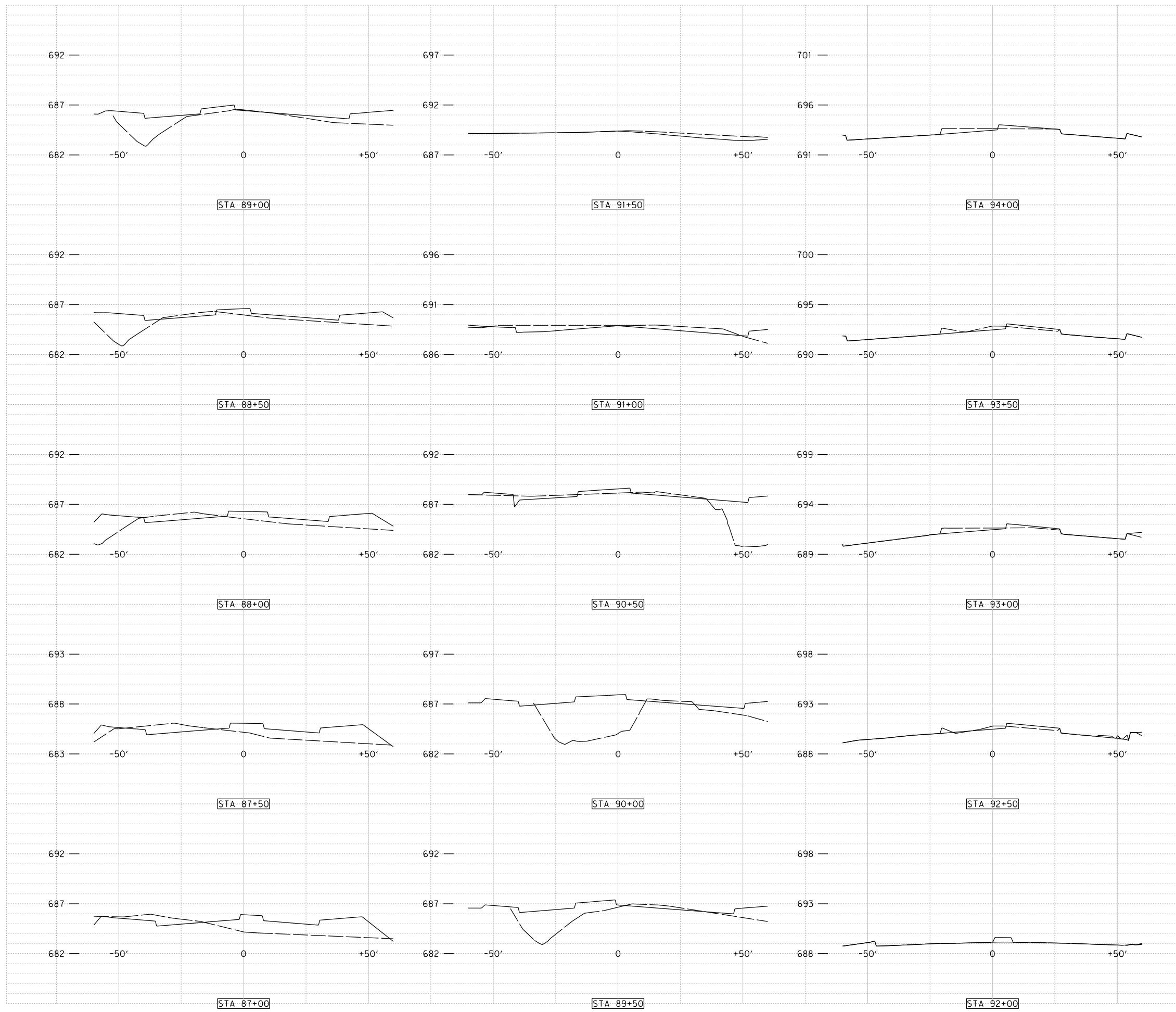
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT SERVICES
 TRANSPORTATION PROGRAMMING & INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
PAVING CROSS SECTIONS
 (SHEET 4 OF 5)

BAILEY BOSWELL ROAD

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 165 OF 189
DRAWN: PTS			

8/5/2021 5:20:42 PM I:\2020\842487\001\CADD\Sheets\FRC\Public Improvements Sheets\C805-XS-42487.dgn



REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Joseph W. Buchanan, P.E. 136549 on 08/05/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practices Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034, TBPEIS Engineering Firm #312

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) 392-8296
 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
PAVING CROSS SECTIONS
 (SHEET 5 OF 5)

BAILEY BOSWELL ROAD

DESIGNED: TMW	SCALE: N.T.S.	DATE: 06/08/2021	SHEET 166 OF 189
DRAWN: PTS			

Division 34 - Transportation

General:

1. Prior to activating traffic signals with new or revised signal timing, the contractor should e-mail Yang Jin, Engineering Manager, at Yang.Jin@fortworthtexas.gov (and copy Shannon Hobbs, Project Engineer, at Shannon.Hobbs@fortworthtexas.gov) at least three (3) weeks in advance to schedule that.
2. If new cabinets and controllers are being installed and the controllers need to be programmed and tested by City Forces; the contractor should deliver them to the City of Fort Worth, Signal Shop at 5001 James Ave., at least three (3) weeks in advance to schedule that.
3. Unless there is a compelling reason, a new traffic signal will be put on flash on Thursdays and working colors the following Tuesday.
4. Switching from old traffic signal to a new one, this should be done on Tuesdays only.
5. Notify Transportation Management Division (817-392-7738) Project Representative at least 24-hours in advance of all concrete pours. Inspector must be present when concrete is placed on the project site.
6. **If applicable**, equipment supplied by the City will be available for pick up from the Transportation/Public Works (T/PW) Warehouse at 5001 James Avenue and/or the Village Creek Pole Yard (5000 MLK Freeway). The Project Representative must authorize all equipment pickups.
7. Design consultant shall submit electronic file in CAD format as well as PDF (11" X 17") of final signed and sealed plans to the City.
8. Contractor shall provide a 5-year manufacturer warranty on APS systems. The warranty documentation shall include the start date (when material is delivered to job site) and the end date of the warranty and the serial number of the equipment.

Traffic Signals:

1. The City will not provide traffic signal cabinet or traffic signal controller to the Contractor. The cost for these items must be included in the City project budget, or for all privately funded projects, the cost must be included in the bid package for purchase from the vendor.
2. The Contractor shall provide all materials needed to construct a fully operational traffic signal as called out for in the plans and specifications.
3. All existing signal equipment shall remain in place and operating until new equipment is in place and ready to operate.
4. The Contractor should contact Adrian Olguin, TPW Superintendent, at 817-392-7239 or Adrian.Olguin@fortworthtexas.gov at least one (1) week in advance of any disposal of material to coordinate any material that the city may need salvaged. The Contractor is responsible for hauling and properly disposing of salvaged material from the job site to a disposal site of their choosing. The Contractor will not be allowed to drop off salvaged materials at the City yards unless otherwise directed by TPW Superintendent for the specified material only.

Foundations:

1. Dimensions shown on plans for locations of signal foundations, conduit, and other items may vary in order to meet local conditions. All locations of foundations, conduit, and ground boxes shall be approved by the Traffic Signal Inspector or the Engineering Manager.
2. Contractor shall contact the City traffic signal inspector prior to pouring cabinet foundation to be sure that template and bolt patterns are correct for type of cabinet being supplied. Foundation shall be installed per City Specification and City Detail.
3. Pier Foundations shall be poured together in one piece.
4. No signal poles shall be placed on foundations prior to five (5) calendar days following pouring of concrete.
5. Contractor shall clean up and remove all loose material resulting from construction operations each day prior to the work is being suspended.
6. Controller cabinet concrete apron shall be subsidiary to the bid item for the controller cabinet foundation. Cabinet foundation and apron shall be poured together in one piece.

Controller and Cabinet:

1. Contractor shall install controller cabinet and connect all associated field wiring.
2. City will install signal timing and program controller.

Conduit:

1. A continuous grounded system shall be provided in PVC conduit by running 1-#8 bare copper wire in conduit between foundations and grounding at each foundation ground rod.
2. All conduits shall be Schedule 80 PVC.
3. Electrical service shall be installed per City Specifications and City Detail in separate 2" conduit from the meter to the signal cabinet.

Signal Heads:

1. All signal heads shall be McCain™, Econolite™, or approved equivalent style and dimensions.
2. All signal heads shall be covered with burlap or other approved material from the time of installation until the signal is placed in operation.
3. All signal head attachments shall be designed such that the wiring to each signal head shall pass from the mast arm through a rain tight connector to the signal head bracing or attachment hardware to the signal head. A small amount of exposed signal cable shall form a drip loop.
4. All LED signal indications shall be General Electric (GE) Gelcore™ or equivalent and shall meet the latest ITE standards.
5. Signal heads (all displays) and pedestrian Walk and Don't Walk heads with countdown displays shall have LED inserts.
6. Clam-Shell mounting assemblies shall be used for pedestrian indications.
7. All LED signals shall be of the incandescent appearance.
8. All signal heads shall have black aluminum, louvered, single piece back plates compatible with McCain™, Econolite™, or approved equivalent signal head housings.

Traffic Signs and Pavement Markings:

1. All traffic signs and mounting hardware shown on the plans will be furnished and installed by the contractor including the metro street name signs. The contractor shall provide a detail sheet for the metro street name signs with block numbers to the City for approval prior to fabrication and installation.
2. Existing stop signs and posts will be removed by the contractor upon, or before, the signal turn-on.

Detection System:

1. The Contractor shall furnish and install the Wavetronics Radar Detection System and cable.
2. The Contractor shall install, aim and program all detectors as per City Standard Specifications and City Details.
3. The Contractor shall refer to and City Standard Details and project plans for detection zones placement.

Emergency Vehicle Preemption Equipment (EVP):

1. The Contractor shall furnish and install the Opticom™ EVP (detectors, cable, and discriminator units).
2. The Contractor shall install the EVP detectors on the mast arm as shown on the plans and appropriate City Detail, and run one continuous EVP cable from the detector to the cabinet. Installation of the EVP system will be paid for per bid item.

Accessible Pedestrian Signal (APS):

1. APS units with audible message shall be installed on all TxDOT locations or at the direction of the Engineering Manager.
2. APS units shall comply with the latest version of the Texas Manual on Uniform Traffic Control Devices (TMUTCD).
3. APS units shall be installed per City Standard Specification and City Detail.

Powder Coating:

1. All new traffic signals, traffic signal rebuilds, and new HAWK signals shall have all signal poles, mast arms and pedestrian poles powder coated black at the direction of the Engineering Manager.

Battery Backup:

1. If called out for in the plans, battery backup units supplied shall comply with the City Standard Specifications. Installation shall be completed per City Standard Specifications and City Detail.

PTZ Camera:

1. If called out for in the plans, PTZ Camera units supplied shall comply with the City Standard Specifications. Installation shall be completed per City Standard Specifications and City Detail.

4G Digi Modem and Antenna:

1. If called out for in the plans, 4G Digi Modem Antenna units supplied shall comply with the City Standard Specifications. Installation shall be completed per City Standard Specifications and City Detail.

Traffic Control:

1. The Contractor shall submit a Work Schedule, Traffic Control Plan, and acquire a Development Permit from Development Department, at 200 Texas Street. Contact Chuck McLure (817-392-7219).
2. The Contractor shall be responsible for the safety of pedestrians and motorists in the area of the traffic signal construction site.
3. Roads and streets shall be kept open to traffic at all times. Contractor shall arrange construction so as to close only one lane of a roadway at a time.
4. All construction operations shall be conducted to provide minimal interference to traffic. All traffic signal equipment installations shall be arranged so as to permit continuous movement of traffic in all directions at all times.
5. Contractor shall be responsible for any signage necessary during construction.
6. Unless otherwise noted, it is the contractor's responsibility to ensure that signal indications and timing are adjusted and maintained to ensure safety in work zone at all times.
7. Any traffic signal modifications during construction are subsidiary to traffic control plan (TCP) pay item.
8. Any traffic signal modifications should be in compliance with the latest version of the Texas Manual on Uniform Traffic Control Devices (TMUTCD) and the City of Fort Worth Standards.
9. The contractor shall submit any proposed traffic signal modifications to the Traffic Signal Section for their approval ten (10) days prior to any changes.

Electric Service:

1. Install the required electric services and obtain an electrical service permit in each instance, cost of which will be paid by the Contractor.
2. The electrical service shall be 100 amps with 120/240 voltage branch circuit and shall comply with City Standard Specifications and City Details as applicable per plans.

Luminaires:

1. The City will not furnish luminaire material to the contractor. The Contractor shall furnish and install LED luminaires for traffic signals in accordance with the latest City Standard Specifications, City Details, and plans.
2. All new streetlight pole types shall match those of the surrounding area of Fort Worth for which they are being installed in. Contact the City Transportation Management, Street Light Section at (817) 392-7738 for direction on light pole types allowed areas. The same poles shall be consistently used throughout subdivisions.

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Stephen Moore, P.E. 95814 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Half Associates, Inc., 3803 Parkwood Blvd., Ft. Worth, Texas 76104. TBPELS Engineering Firm #312

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

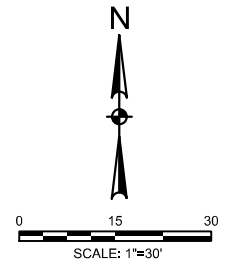
CITY OF FORT WORTH, TEXAS
 TRANSPORTATION AND DEVELOPMENT
 SERVICES

TRANSPORTATION PROGRAMMING &
 INFRASTRUCTURE PLAN REVIEW CENTER

EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 TRAFFIC SIGNAL GENERAL NOTES
 HARMON RD / EAST BAILEY BOSWELL RD

DESIGNED: SMM	SCALE: N/A	DATE: 07/12/2021	SHEET 167 OF 189
DRAWN: HALFF			

CAUTION!!!
 UNDERGROUND AND OVERHEAD UTILITIES IN VICINITY
 CONTRACTOR SHALL LOCATE HORIZONTAL & VERTICAL
 LOCATIONS OF ALL UTILITIES IN THE VICINITY OF
 CONSTRUCTION PRIOR TO COMMENCING WORK.



REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



LEGEND OF SYMBOLS	
	SIGNAL POLE ASSEMBLY
	LUMINAIRE
	PEDESTRIAN POLE ASSEMBLY
	PEDESTRIAN PUSHBUTTON POLE ASSEMBLY
	PEDESTRIAN PUSHBUTTON (APS)
T-2	SIGNAL POLE NUMBERS
P-2	PED POLE NUMBERS
	GROUND BOX TYPE D
	GROUND BOX TYPE B
	CONDUIT RUN NUMBERS
R.O.W.	RIGHT OF WAY LINES
	PROPOSED ELECTRICAL SERVICE
	CONTROLLER CABINET AND BBU
	SIGNAL HEAD AND NUMBER
	RADAR ADVANCE DETECTOR
	RADAR PRESENCE DETECTOR
	OPTICOM
	MAST ARM MOUNTED SIGN
	PTZ CAMERA



The seal appearing on this document was authorized by Stephen Moore, P.E. 95814 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Half Associates, Inc., 3803 Parkwood Blvd., Ft. Worth, Texas 76104. TBPELS Engineering Firm #312

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 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

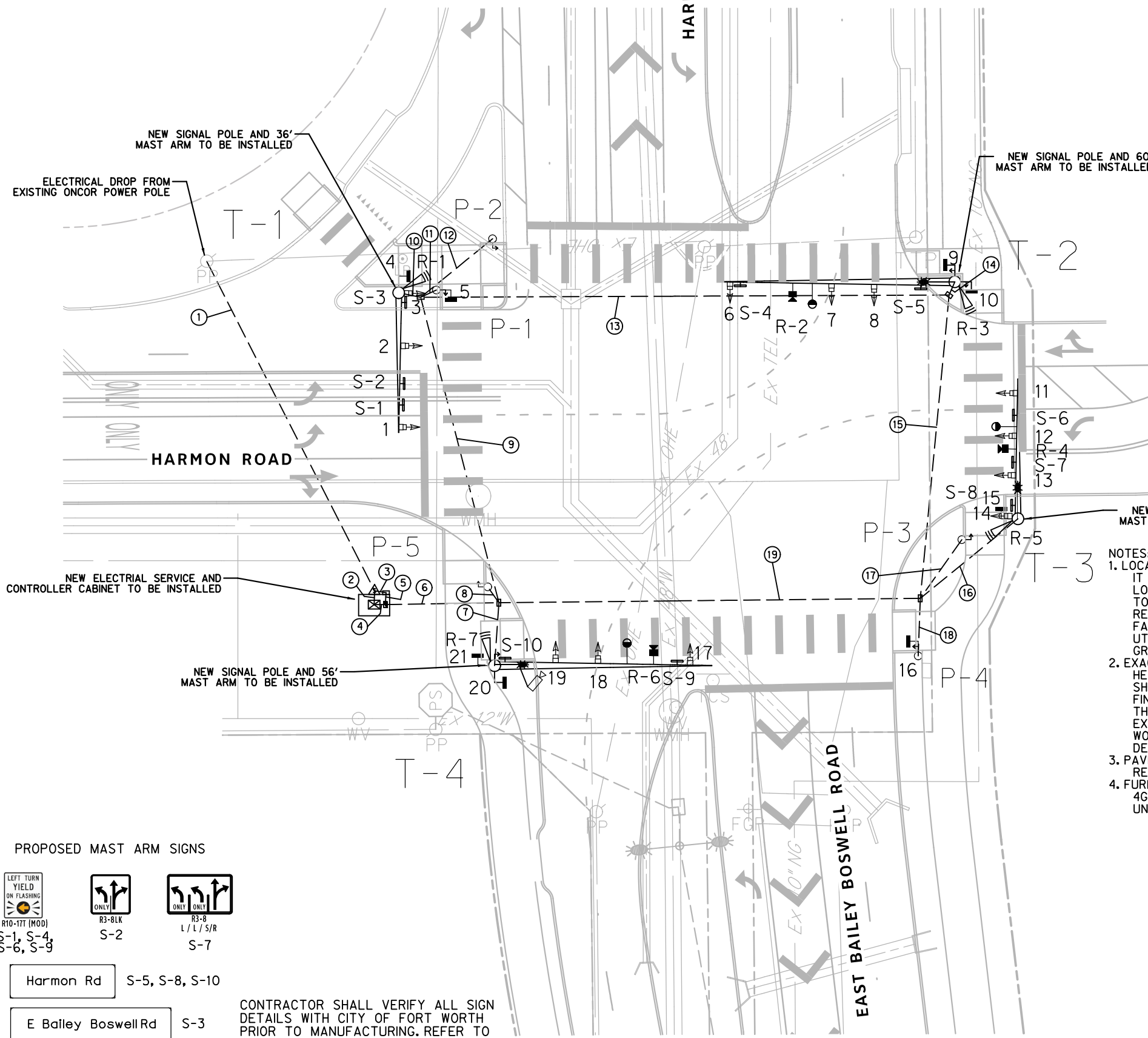
CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TFW 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
 PROPOSED SIGNAL LAYOUT
 HARMON RD / EAST BAILEY BOSWELL RD

DESIGNED: SMM	SCALE: 1"=30'	DATE: 07/12/2021	SHEET 168 OF 189
DRAWN: HALFF			



- NOTES:**
- LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES (PUBLIC AND PRIVATE) PRIOR TO COMMENCING WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGE CAUSED BY HIS FAILURE TO LOCATE AND PRESERVE THESE UTILITIES, WHETHER UNDERGROUND, ABOVE-GROUND OR OVERHEAD.
 - EXACT LOCATIONS OF POLES, CONTROLLER, SIGNAL HEADS, GROUND BOXES AND ELECTRICAL SERVICE SHALL BE DETERMINED IN THE FIELD SUBJECT TO FINAL APPROVAL BY ENGINEER IN THE FIELD. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXACT LOCATIONS FROM THE CITY OF FORT WORTH TRANSPORTATION AND PUBLIC WORKS DEPARTMENT PRIOR TO CONSTRUCTION.
 - PAVEMENT MARKINGS SHOWN ARE CONCEPTUAL; REFER TO CIVIL PLANS FOR MARKINGS DETAILS.
 - FURNISH AND INSTALL BATTERY BACK UP UNIT, 4G DIDIMODEM ANTENNA UNIT AND PTZ CAMERA UNIT PER CITY SPECIFICATIONS.

PROPOSED MAST ARM SIGNS

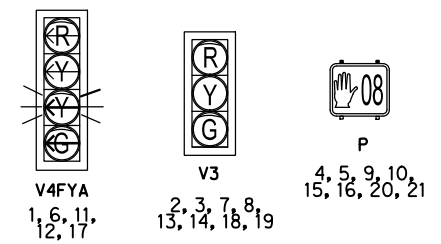


Harmon Rd S-5, S-8, S-10

E Bailey Boswell Rd S-3

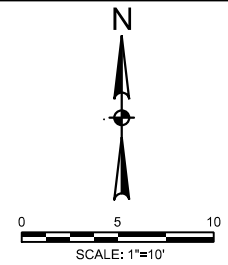
CONTRACTOR SHALL VERIFY ALL SIGN DETAILS WITH CITY OF FORT WORTH PRIOR TO MANUFACTURING. REFER TO CITY OF FORT WORTH STANDARD 34 41 30-D633.

PROPOSED SIGNAL HEADS



7/12/2021 12:36:16 PM I:\2006\42487\001\CADD\Sheets\CH42487-TR-SGNL.dgn

CAUTION!!!
 UNDERGROUND AND OVERHEAD UTILITIES IN VICINITY
 CONTRACTOR SHALL LOCATE HORIZONTAL & VERTICAL
 LOCATIONS OF ALL UTILITIES IN THE VICINITY OF
 CONSTRUCTION PRIOR TO COMMENCING WORK.



REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		

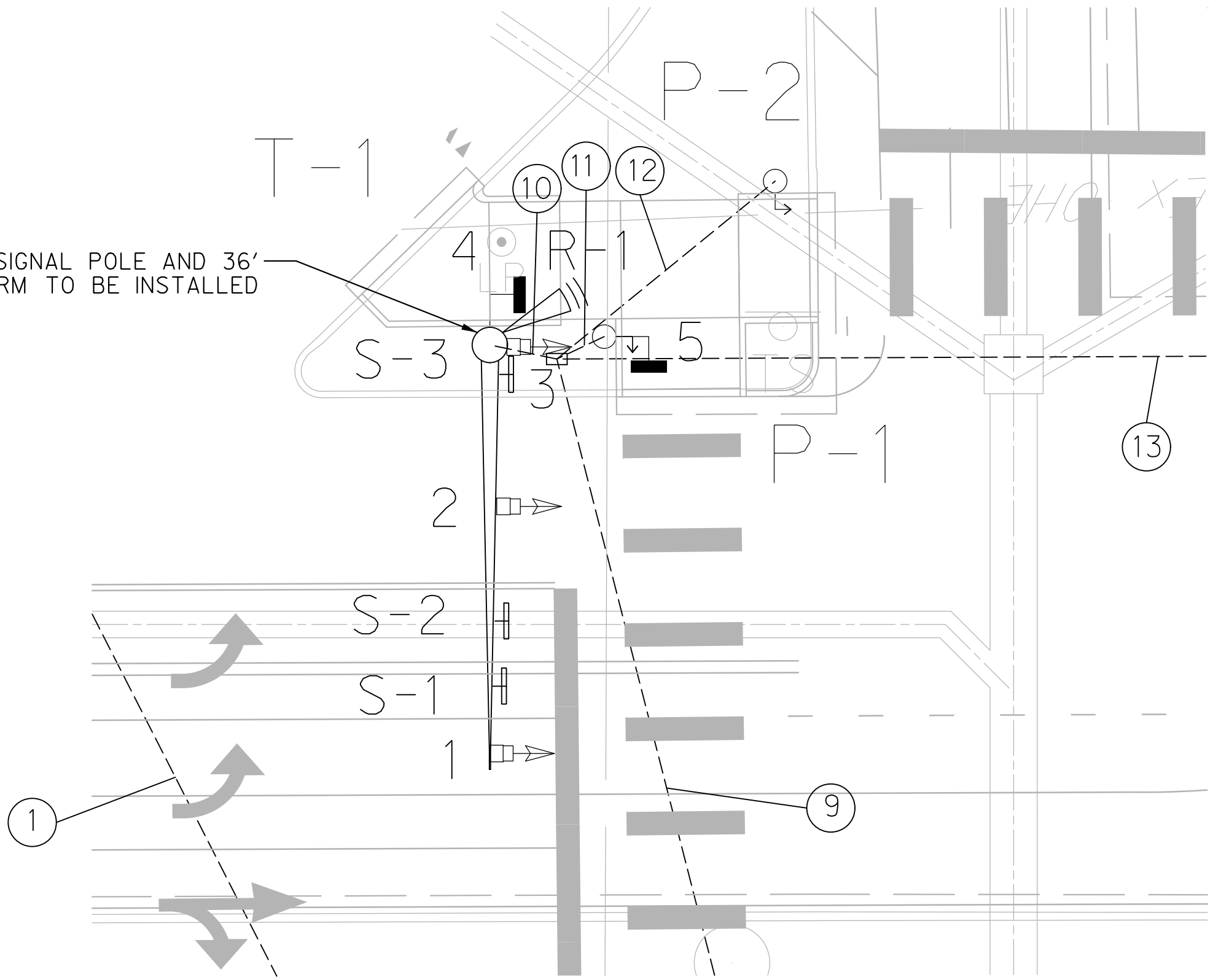


LEGEND OF SYMBOLS	
	SIGNAL POLE ASSEMBLY
	LUMINAIRE
	PEDESTRIAN POLE ASSEMBLY
	PEDESTRIAN PUSHBUTTON POLE ASSEMBLY
	PEDESTRIAN PUSHBUTTON (APS)
	SIGNAL POLE NUMBERS
	PED POLE NUMBERS
	GROUND BOX TYPE D
	GROUND BOX TYPE B
	CONDUIT RUN NUMBERS
	RIGHT OF WAY LINES
	PROPOSED ELECTRICAL SERVICE
	CONTROLLER CABINET
	SIGNAL HEAD AND NUMBER
	RADAR ADVANCE DETECTOR
	RADAR PRESENCE DETECTOR
	OPTICOM
	MAST ARM MOUNTED SIGN
	PTZ CAMERA



The seal appearing on this document was authorized by Stephen Moore, P.E. 95814 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Half Associates, Inc., 3803 Parkwood Blvd., Ft. Worth, Texas 76104. TBPELS Engineering Firm #312

NEW SIGNAL POLE AND 36'
 MAST ARM TO BE INSTALLED



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 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 # ~~10390~~
 CITY PROJECT # ~~10390~~
 TPW PROJECT # CXXX-XXXXX-XXXXXXXXXXXX
 FORT WORTH WATER DEPT. # PXXX-XXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXX-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

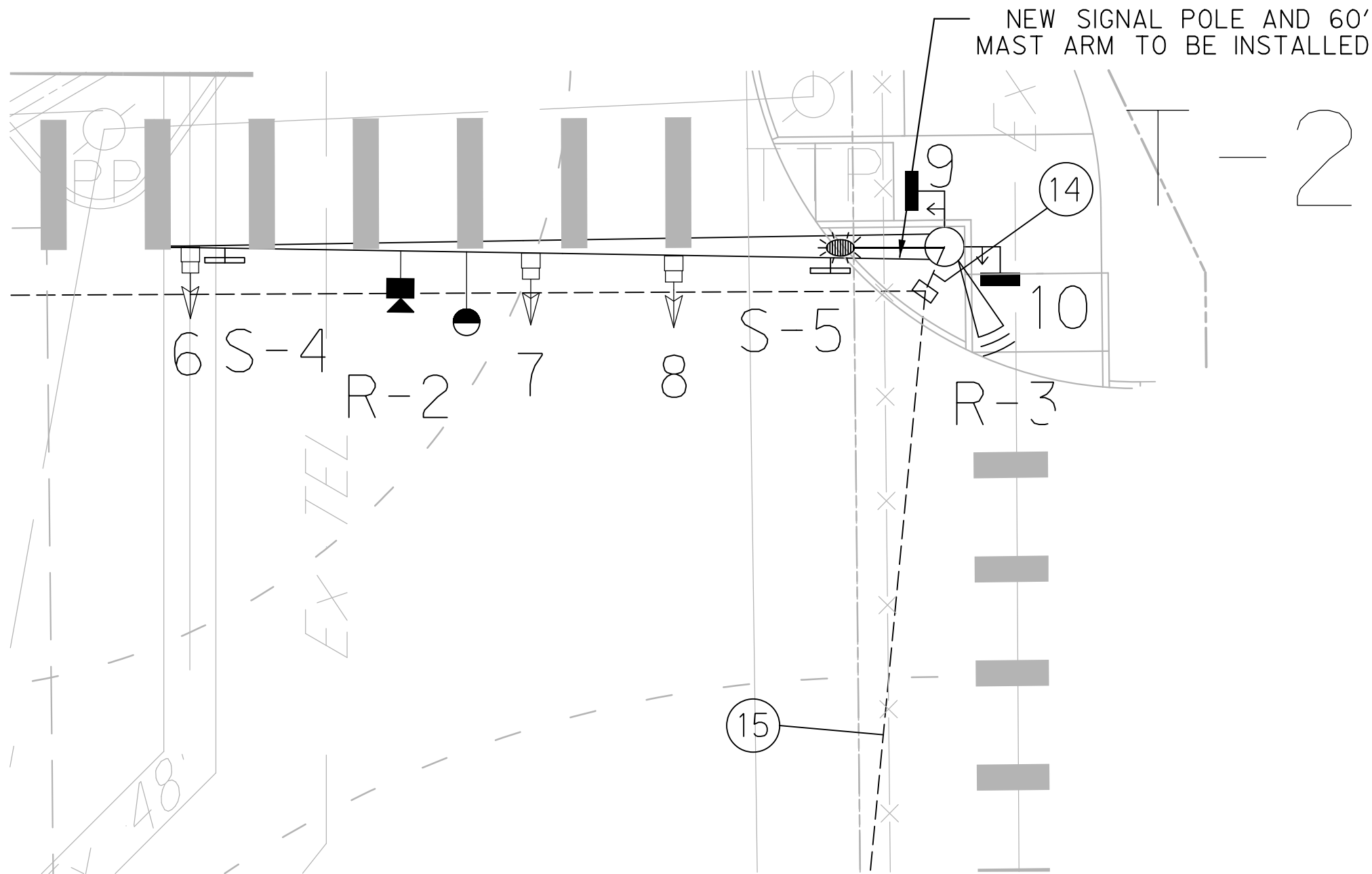
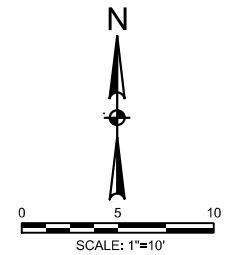
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 PROPOSED SIGNAL LAYOUT
 HARMON RD / EAST BAILEY BOSWELL RD

NORTHWEST CORNER

DESIGNED: SMM	SCALE: 1"=10'	DATE: 07/12/2021	SHEET 169 OF 189
DRAWN: HALFF			

7/12/2021 12:42:05 PM I:\420068\42487\001\CADD\Sheets\CH42487-TR-SGNI-NW.dgn

CAUTION!!!
 UNDERGROUND AND OVERHEAD UTILITIES IN VICINITY
 CONTRACTOR SHALL LOCATE HORIZONTAL & VERTICAL
 LOCATIONS OF ALL UTILITIES IN THE VICINITY OF
 CONSTRUCTION PRIOR TO COMMENCING WORK.



REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



LEGEND OF SYMBOLS	
	SIGNAL POLE ASSEMBLY
	LUMINAIRE
	PEDESTRIAN POLE ASSEMBLY
	PEDESTRIAN PUSHBUTTON POLE ASSEMBLY
	PEDESTRIAN PUSHBUTTON (APS)
	SIGNAL POLE NUMBERS
	PED POLE NUMBERS
	GROUND BOX TYPE D
	GROUND BOX TYPE B
	CONDUIT RUN NUMBERS
	R.O.W. RIGHT OF WAY LINES
	PROPOSED ELECTRICAL SERVICE
	CONTROLLER CABINET
	SIGNAL HEAD AND NUMBER
	RADAR ADVANCE DETECTOR
	RADAR PRESENCE DETECTOR
	OPTICOM
	MAST ARM MOUNTED SIGN
	PTZ CAMERA



The seal appearing on this document was authorized by Stephen Moore, P.E. 95814 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Half Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TBPELS Engineering Firm #312

Stephen M. Moore

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 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
 FFW PROJECT # CXXX-XXXXX-XXXXXXXXXXXX
 WATER PROJECT # FXXX-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

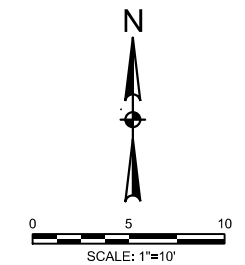
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 PROPOSED SIGNAL LAYOUT
 HARMON RD / EAST BAILEY BOSWELL RD

NORTHEAST CORNER

DESIGNED: SMM	SCALE: 1"=10'	DATE: 07/12/2021	SHEET 170 OF 189
DRAWN: HALFF			

7/12/2021 12:38:10 PM I:\42006\42487\001\CADD\Sheets\CH42487-TR-SGNL-NE.dgn

CAUTION!!!
 UNDERGROUND AND OVERHEAD UTILITIES IN VICINITY
 CONTRACTOR SHALL LOCATE HORIZONTAL & VERTICAL
 LOCATIONS OF ALL UTILITIES IN THE VICINITY OF
 CONSTRUCTION PRIOR TO COMMENCING WORK.



REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



LEGEND OF SYMBOLS	
	SIGNAL POLE ASSEMBLY
	LUMINAIRE
	PEDESTRIAN POLE ASSEMBLY
	PEDESTRIAN PUSHBUTTON POLE ASSEMBLY
	PEDESTRIAN PUSHBUTTON (APS)
	SIGNAL POLE NUMBERS
	PED POLE NUMBERS
	GROUND BOX TYPE D
	GROUND BOX TYPE B
	CONDUIT RUN NUMBERS
	R.O.W. RIGHT OF WAY LINES
	PROPOSED ELECTRICAL SERVICE
	CONTROLLER CABINET
	SIGNAL HEAD AND NUMBER
	RADAR ADVANCE DETECTOR
	RADAR PRESENCE DETECTOR
	OPTICOM
	MAST ARM MOUNTED SIGN
	PTZ CAMERA



The seal appearing on this document was authorized by Stephen Moore, P.E. 95814 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Half Associates, Inc., 3803 Parkwood Blvd., Fort Worth, Texas 76104. TBPELS Engineering Firm #312

Stephen Moore

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 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

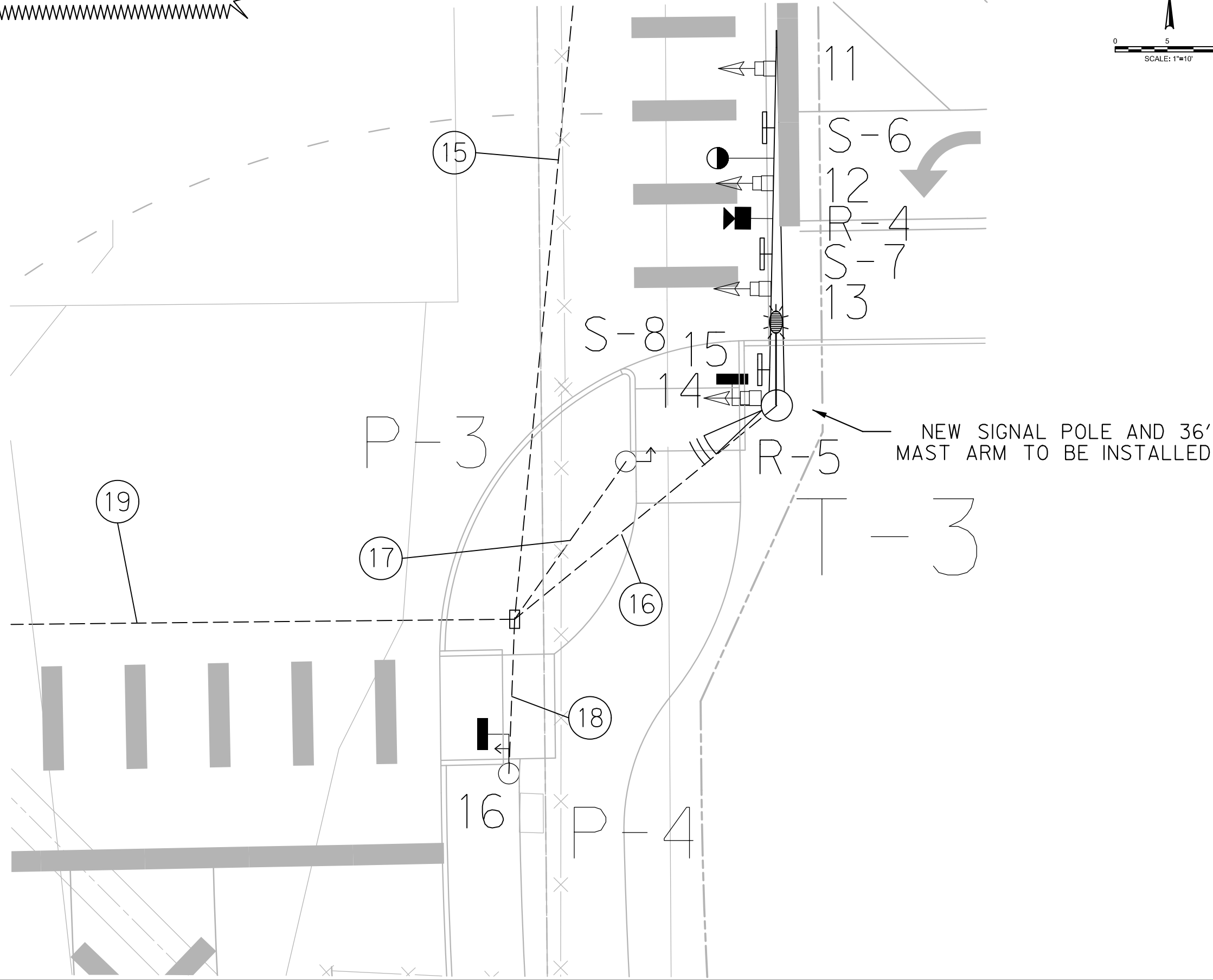
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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

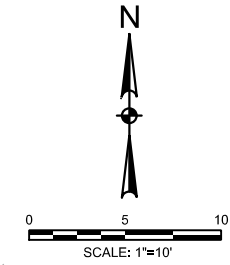
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 PROPOSED SIGNAL LAYOUT
 HARMON RD / EAST BAILEY BOSWELL RD

SOUTHEAST CORNER

DESIGNED: SMM	SCALE: 1"=10'	DATE: 07/12/2021	SHEET 171 OF 189
DRAWN: HALFF			



CAUTION!!!
 UNDERGROUND AND OVERHEAD UTILITIES IN VICINITY
 CONTRACTOR SHALL LOCATE HORIZONTAL & VERTICAL
 LOCATIONS OF ALL UTILITIES IN THE VICINITY OF
 CONSTRUCTION PRIOR TO COMMENCING WORK.



REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



LEGEND OF SYMBOLS	
	SIGNAL POLE ASSEMBLY
	LUMINAIRE
	PEDESTRIAN POLE ASSEMBLY
	PEDESTRIAN PUSHBUTTON POLE ASSEMBLY
	PEDESTRIAN PUSHBUTTON (APS)
	SIGNAL POLE NUMBERS
	PED POLE NUMBERS
	GROUND BOX TYPE D
	GROUND BOX TYPE B
	CONDUIT RUN NUMBERS
	R.O.W. RIGHT OF WAY LINES
	PROPOSED ELECTRICAL SERVICE
	CONTROLLER CABINET AND BBU
	SIGNAL HEAD AND NUMBER
	RADAR ADVANCE DETECTOR
	RADAR PRESENCE DETECTOR
	OPTICOM
	MAST ARM MOUNTED SIGN
	PTZ CAMERA



The seal appearing on this document was authorized by Stephen Moore, P.E. 95814 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Half Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034. TBPELS Engineering Firm #312

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 T&P (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-XXXXX-XXXXXXXXXXXX
 FORT WORTH WATER DEPT. # PXXX-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

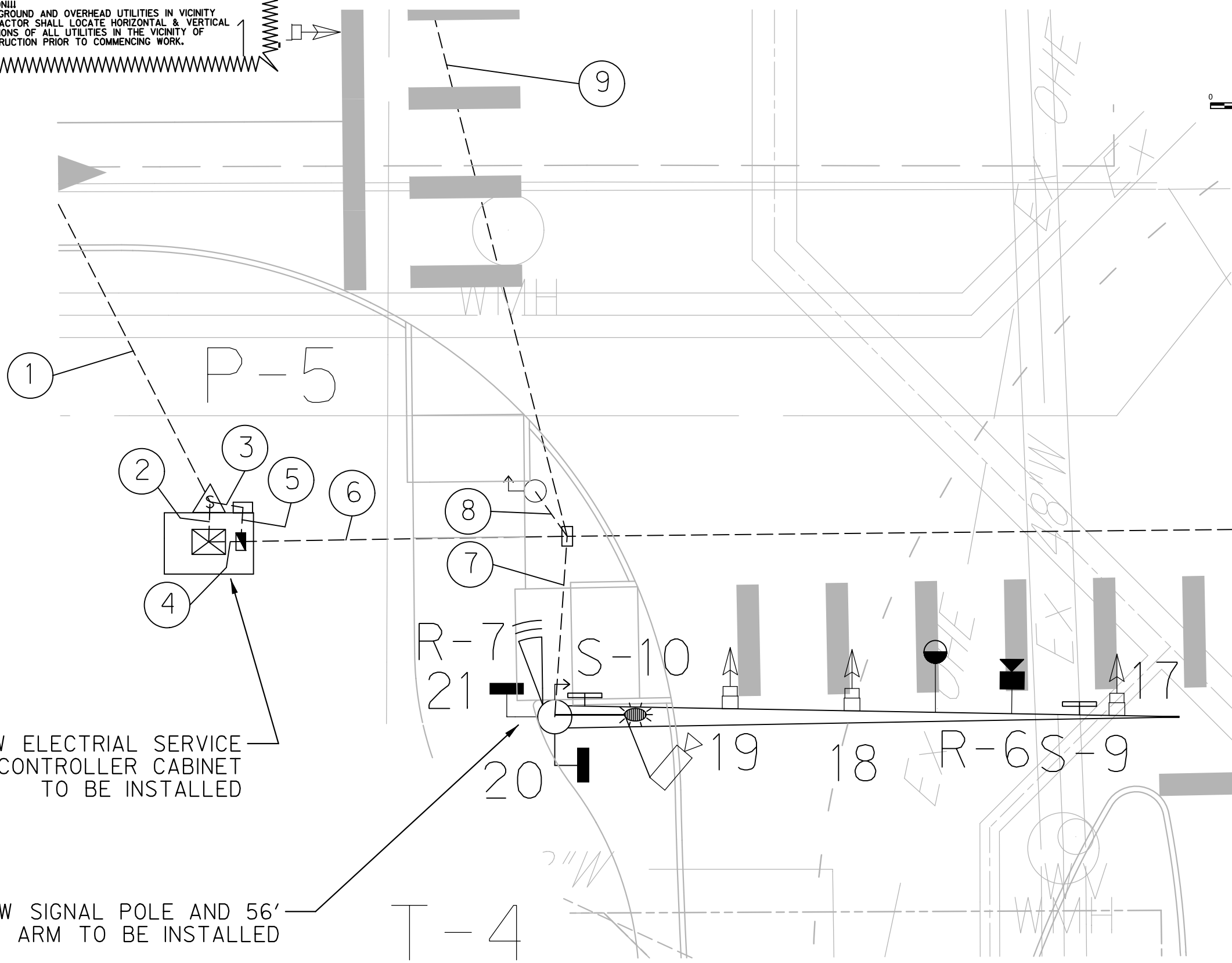
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 PROPOSED SIGNAL LAYOUT
 HARMON RD / EAST BAILEY BOSWELL RD

SOUTHWEST CORNER

DESIGNED: SMM	SCALE: 1"=10'	DATE: 07/12/2021	SHEET 172 OF 189
DRAWN: HALFF			

NEW ELECTRICAL SERVICE AND CONTROLLER CABINET TO BE INSTALLED

NEW SIGNAL POLE AND 56' MAST ARM TO BE INSTALLED



7/12/2021 12:42:56 PM I:\2006\42487\001\CADD\Sheets\CH42487-TR-SGNL-DESIGNTABLES.dgn

RUN NO.	SUMMARY OF CONDUIT AND CABLE																
	CONDUIT - SCHEDULE 80 PVC				#8 INSULATED GROUND (GREEN)	20 COND - #14	5 COND - #14	3 COND - #14	#6 BARE	#6 XHHW BLACK	#6 XHHW WHITE	#8 XHHW BLACK	#8 XHHW WHITE	RADAR DETECTION CABLE	OPTICOM CABLE	PTZ CABLE	
	SIZE		LENGTH IN FEET	BORE (B) TRENCH (T) RIGID (RM)													
2"	3"	4"			Run by Electrical Provider												
1	1			96	B												
2	1			4	T				1	1	1						
3	1			3	T	1						1	1				
4	1	2		3	T	3	4		8					7	3	1	
5	1			4	T	1						1	1				
6	1	2		30	T	3	4		8			1	1	7	3	1	
7	1	1		17	T	2	1		1			2	2	2	1	1	
8		1		5	T	1			1								
9	1		1	82	B	2	1		2					3			
10		1		6	T	1	1	1						1			
11		1		5	T	1		1	1								
12		1		24	T	1			1								
13	1		1	137	B	2								2			
14	1	1		4	T	2	1		2			1	1	2	1		
15	1		1	79	B	2	1		2			1	1		1		
16	1	1		33	T	2	1	2				2	2	2	1		
17		1		19	T	1			1								
18		1		15	T	1			1	1							
19	1		1	109	B	2	2		4			1	1	2	2		
CABLE TOTALS (LF)					1,102	571	92	1,115	4	4	4	329	329	1,083	450	50	
CONDUIT TOTALS (LF)					Notes:												
2" TRENCH					98	This chart does not reflect the quantities of cables inside the poles.											
2" BORE					503	T = Trench, B = Bore											
3" TRENCH					194												
3" BORE					0												
4" TRENCH					0												
4" BORE					407												

CABLE / WIRE IN POLES								
POLE NUMBER	3 COND #14	5 COND #14	7 COND #14	#8 XHHW BLACK	#8 XHHW WHITE	PTZ CABLE	RADAR DETECTOR CABLE	OPTICOM CABLE
T-1		10	119				25	
T-2	10	20	186	40	40		92	62
T-3		10	162	40	40		68	49
T-4	5	20	170	40	40	40	92	59
P-1	5	10						
P-2	5							
P-3	5							
P-4	5	10						
P-5	5							
TOTAL	40	80	637	120	120	40	277	170

GROUND BOX SUMMARY		
TYPE	UNIT	QTY
B, W/ APRON	EA	5
D, W/ APRON	EA	1

SIGNAL POLES AND PEDESTRIAN POLES																				
POLE NUMBER	T-1	P-1	P-2	T-2	T-3	P-3	P-4	T-4	P-5											
MAST ARM LENGTH	36'	N/A	N/A	60'	36'	N/A	N/A	56'	N/A											
POLE HEIGHT	21.0'	10'	5'	27.5'	27.5'	5'	10'	27.5'	5'											
POLE / FOUNDATION	42 / 3	5 / 1	5 / 1	45 / 5	41 / 3	5 / 1	10 / 1	45 / 5	5 / 1											
WITH LUMINAIRES	NO	N/A	N/A	YES	YES	N/A	N/A	YES	N/A											
SIZE OF LENS	12"	N/A	N/A	12"	12"	N/A	N/A	12"	N/A											
SIGNAL TYPE	V4FYA V3 V3 P	P	N/A	V4FYA V3 V3 P	P	V4FYA V3 V3 P	P	V4FYA V3 V3 P	P											
SIGNAL FACE NO.	1 2 3 4	5	N/A	6 7 8 9 10	11 12 13 14 15	N/A	16	17 18 19 20 21	N/A											
SIGNAL INDICATIONS	RA R R DW DW			RA R R DW DW	RA RA R R DW		DW	RA R R DW DW												
	YA Y Y W W			YA Y Y W W	YA YA Y Y W		W	YA Y Y W W												
	FYA G G			FYA G G	FYA FYA G G			FYA G G												
PED BUTTONS (APS)	0			1	1	2				0			1	1	1			1		

APS MESSAGE CHART			
POLE NO.	PEDESTRIAN MOVEMENT	FUNCTIONS	SPEECH MESSAGE
T-2	02	REGULAR PUSH SPEECH MESSAGE	"WAIT"
		WALK INDICATION SPEECH MESSAGE	"DRIVEWAY, WALK SIGN IS ON TO CROSS DRIVEWAY"
		COUNTDOWN SPEECH MESSAGE	OFF
		EXTENDED PUSH SPEECH MESSAGE	"WAIT TO CROSS DRIVEWAY AT HARMON ROAD"
P-3	02	REGULAR PUSH SPEECH MESSAGE	"WAIT"
		WALK INDICATION SPEECH MESSAGE	"DRIVEWAY, WALK SIGN IS ON TO CROSS DRIVEWAY"
		COUNTDOWN SPEECH MESSAGE	OFF
		EXTENDED PUSH SPEECH MESSAGE	"WAIT TO CROSS DRIVEWAY AT HARMON ROAD"
P-4	04	REGULAR PUSH SPEECH MESSAGE	"WAIT"
		WALK INDICATION SPEECH MESSAGE	"BAILEY BOSWELL ROAD, WALK SIGN IS ON TO CROSS BAILEY BOSWELL ROAD"
		EXTENDED PUSH SPEECH MESSAGE	"WAIT TO CROSS BAILEY BOSWELL ROAD AT HARMON ROAD"
T-4	04	REGULAR PUSH SPEECH MESSAGE	"WAIT"
		WALK INDICATION SPEECH MESSAGE	"BAILEY BOSWELL ROAD, WALK SIGN IS ON TO CROSS BAILEY BOSWELL ROAD"
		EXTENDED PUSH SPEECH MESSAGE	"WAIT TO CROSS BAILEY BOSWELL ROAD AT HARMON ROAD"
P-5	06	REGULAR PUSH SPEECH MESSAGE	"WAIT"
		WALK INDICATION SPEECH MESSAGE	"EAST HARMON ROAD, WALK SIGN IS ON TO CROSS EAST HARMON ROAD"
		EXTENDED PUSH SPEECH MESSAGE	"WAIT TO CROSS EAST HARMON ROAD AT BAILEY BOSWELL ROAD"
P-1	06	REGULAR PUSH SPEECH MESSAGE	"WAIT"
		WALK INDICATION SPEECH MESSAGE	"EAST HARMON ROAD, WALK SIGN IS ON TO CROSS EAST HARMON ROAD"
		EXTENDED PUSH SPEECH MESSAGE	"WAIT TO CROSS EAST HARMON ROAD AT BAILEY BOSWELL ROAD"
P-2	08	REGULAR PUSH SPEECH MESSAGE	"WAIT"
		WALK INDICATION SPEECH MESSAGE	"HARMON ROAD, WALK SIGN IS ON TO CROSS HARMON ROAD"
		EXTENDED PUSH SPEECH MESSAGE	"WAIT TO CROSS HARMON ROAD AT EAST HARMON ROAD"
T-2	08	REGULAR PUSH SPEECH MESSAGE	"WAIT"
		WALK INDICATION SPEECH MESSAGE	"HARMON ROAD, WALK SIGN IS ON TO CROSS HARMON ROAD"
		EXTENDED PUSH SPEECH MESSAGE	"WAIT TO CROSS HARMON ROAD AT EAST HARMON ROAD"

ELECTRICAL SERVICE DESCRIPTION									
ELECTRICAL SERVICE DESCRIPTION	SERVICE CONDUIT SIZE (RMC)	SERVICE CONDUCTORS NO./SIZE	SAFETY SWITCH AMPS	MAIN DISCONNECT CKT. BRK. POLE/AMP	TWO-POLE CONTACTOR AMPS	PANEL BD./ LOAD CENTER AMP RATING (MIN)	CIRCUIT NO.	BRANCH CKT. BRK. POLE/AMPS	KVA LOAD
TY D (120/240) 070 (NS) AL (E) PS (U)	2"	3/#6	N/A	2P/70	30	100	1. TRAFFIC SIGNAL 2. LIGHTING	1P/50 2P/15	<7.1

REVISIONS		
NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Stephen Moore, P.E. 95814 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Half Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034. TBPELS Engineering Firm #312

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 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

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 SIGNAL DESIGN TABLES HARMON RD / EAST BAILEY BOSWELL RD

DESIGNED: SMM	SCALE: N/A	DATE: 07/12/2021	SHEET 173 OF 189
---------------	------------	------------------	------------------

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Stephen Moore, P.E. 95814 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Half Associates, Inc., 3803 Parkwood Blvd., Frieco, Texas 75034. TBPELS Engineering Firm #312

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 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

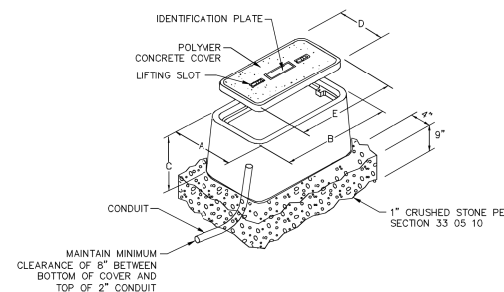
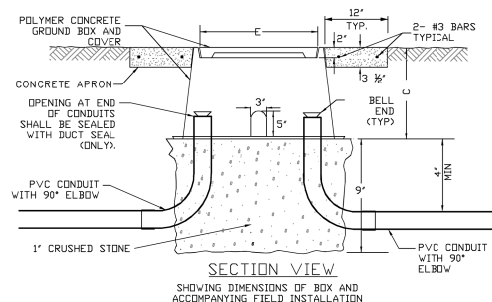
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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

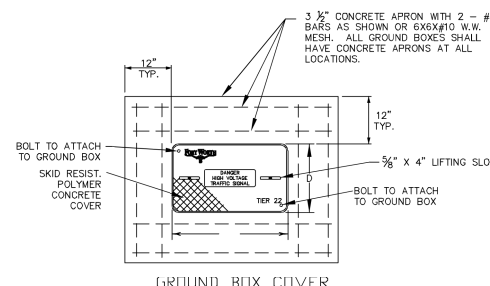
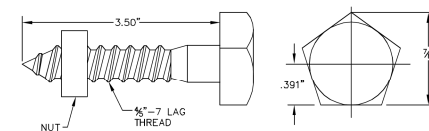
EAST BAILEY BOSWELL ROAD
 FROM HORSEMAN ROAD TO HARMON ROAD
 TRAFFIC SIGNAL STANDARD DETAILS
 HARMON RD / EAST BAILEY BOSWELL RD

SHEET 1 OF 16

DESIGNED: SMM	SCALE: N/A	DATE: 07/12/2021	SHEET 174 OF 189
DRAWN: HALFF			



PULL BOX	NOMINAL GROUND BOX DIMENSIONS			NOMINAL COVER DIMENSIONS		
	A	B	C	D	E	F
TYPE B	15 1/2"	25"	18"	13 3/4"	23 1/2"	
TYPE D	19 1/2"	32 1/4"	22"	17 1/2"	30 1/2"	



- NOTES:
- ALL BOXES SHALL MEET ALL TEST REQUIREMENTS OF THE LATEST SCTE 77 "SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY" FOR TIER 22 APPLICATIONS.
 - BOTTOM EDGE OF BOX OR EXTENSION SHALL BE FOOTED WITH A MINIMUM 1 1/2" FLANGE.
 - COVER LIFT EYE: MOLDED WITH COVER.
 - COVER LETTERING: 1" INCISED LETTERS "DANGER HIGH VOLTAGE TRAFFIC SIGNAL".
 - COVER MUST BE SECURED WITH "PENTA HEAD", STAINLESS STEEL, SELF CLEANING BOLTS AND NUTS. SEE DETAIL THIS SHEET. PROVIDE SECURITY BOLTS IF INDICATED IN THE PLANS.
 - THE GROUND BOXES FOR THIS PROJECT SHALL MEET THE REQUIREMENTS SHOWN ABOVE. THE CONTRACTOR WILL BE PERMITTED TO FURNISH LIKE MATERIALS OF ANY MANUFACTURER PROVIDED THEY ARE STAMPED AND CERTIFIED BY A PROFESSIONAL ENGINEER FROM THE STATE OF TEXAS, OR VERIFIED BY A NATIONALLY RECOGNIZED INDEPENDENT TESTING LAB AND THEY ARE OF EQUAL OR BETTER QUALITY AND COMPLY WITH THE SPECIFICATIONS.
 - LUBE BOLTS, CLEAN OUT COVER RIM, AND CLEAN GROUND BOX INSIDE AND OUT PRIOR TO FINAL INSPECTION.



CITY OF FORT WORTH, TEXAS
**TRAFFIC SIGNAL
 GROUND BOX DETAILS**

REVISED: 11-08-2017
34 41 10-D601

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



TBPE FIRM #F-312
3803 PARKWOOD BLVD, STE 800
FRIECO, TEXAS 75034-8640
(214) 217-6694



The seal appearing on this document was authorized by Stephen Moore, P.E. 95814 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Half Associates, Inc., 3803 Parkwood Blvd., Frieco, Texas 75034. TBPELS Engineering Firm #312

Stephen M. Moore

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 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

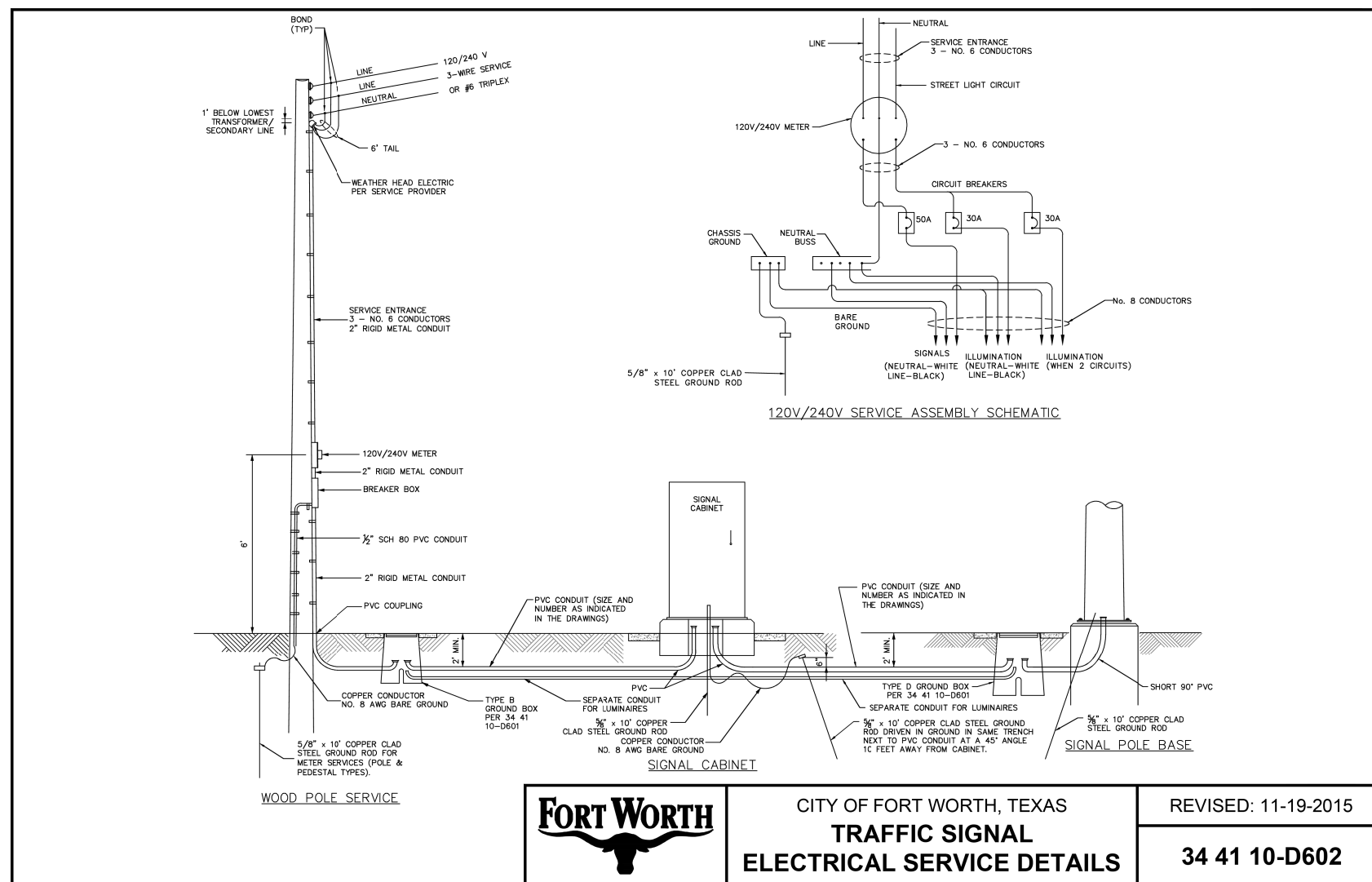
DOE # K-2840
CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
MAP NO. XXXX-XXX

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
TRAFFIC SIGNAL STANDARD DETAILS
HARMON RD / EAST BAILEY BOSWELL RD

SHEET 2 OF 16

DESIGNED: SMM	SCALE: N/A	DATE: 07/12/2021	SHEET 175 OF 189
DRAWN: HALFF			



	CITY OF FORT WORTH, TEXAS	REVISED: 11-19-2015
	TRAFFIC SIGNAL ELECTRICAL SERVICE DETAILS	34 41 10-D602

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Stephen Moore, P.E. 95814 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Half Associates, Inc., 3803 Parkwood Blvd., Ft. Worth, Texas 76104. TBPELS Engineering Firm #312

Stephen M. Moore

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 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

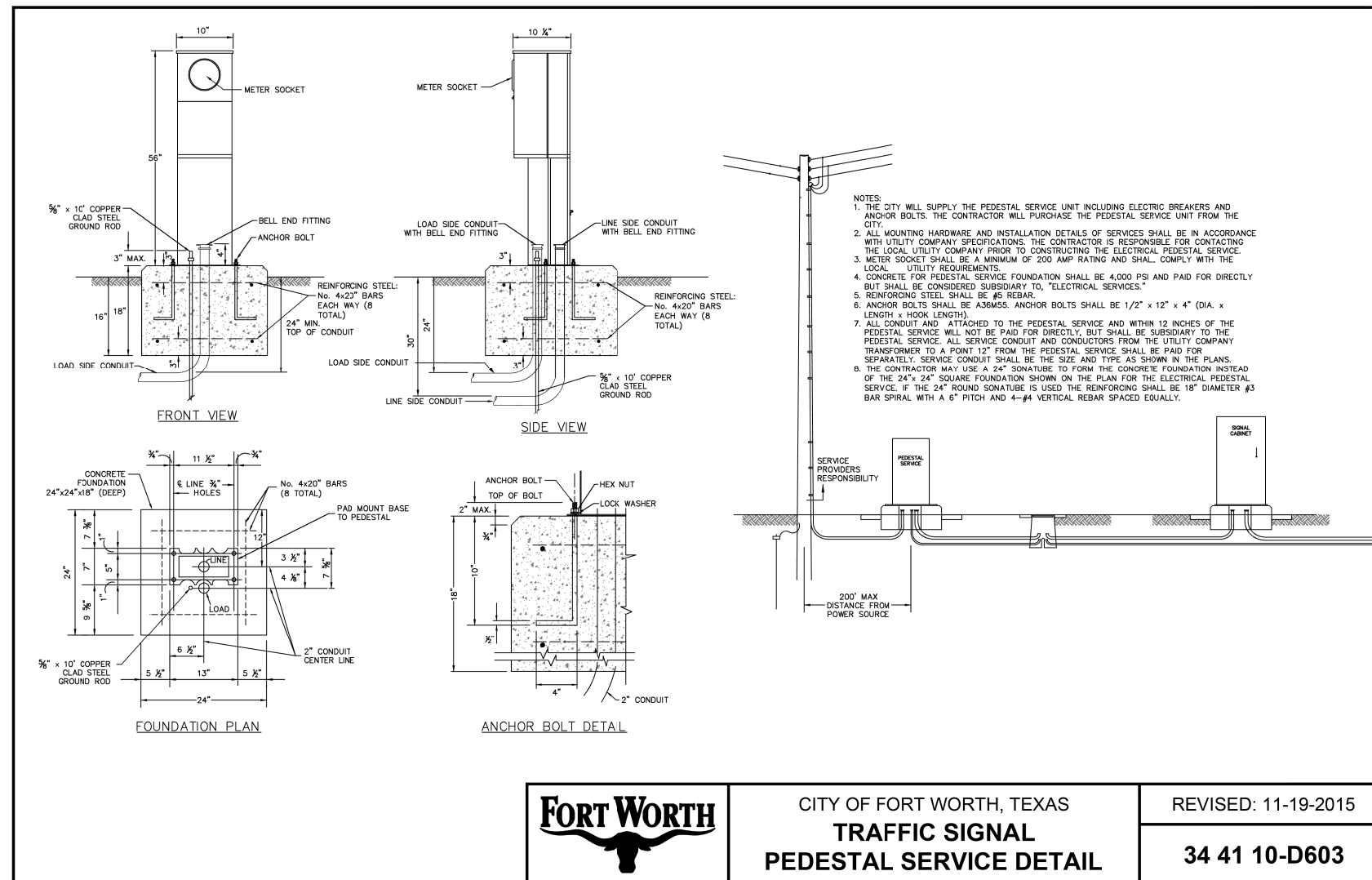
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 FORT WORTH WATER DEPT. # PXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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
 TRAFFIC SIGNAL STANDARD DETAILS
 HARMON RD / EAST BAILEY BOSWELL RD

SHEET 3 OF 16

DESIGNED: SMM	SCALE: N/A	DATE: 07/12/2021	SHEET 176 OF 189
DRAWN: HALFF			



- NOTES:
1. THE CITY WILL SUPPLY THE PEDESTAL SERVICE UNIT INCLUDING ELECTRIC BREAKERS AND ANCHOR BOLTS. THE CONTRACTOR WILL PURCHASE THE PEDESTAL SERVICE UNIT FROM THE CITY.
 2. ALL MOUNTING HARDWARE AND INSTALLATION DETAILS OF SERVICES SHALL BE IN ACCORDANCE WITH UTILITY COMPANY SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE LOCAL UTILITY COMPANY PRIOR TO CONSTRUCTING THE ELECTRICAL PEDESTAL SERVICE.
 3. METER SOCKET SHALL BE A MINIMUM OF 200 AMP RATING AND SHALL COMPLY WITH THE LOCAL UTILITY REQUIREMENTS.
 4. CONCRETE FOR PEDESTAL SERVICE FOUNDATION SHALL BE 4,000 PSI AND PAID FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY TO "ELECTRICAL SERVICES."
 5. REINFORCING STEEL SHALL BE #5 REBAR.
 6. ANCHOR BOLTS SHALL BE A36M55. ANCHOR BOLTS SHALL BE 1/2" x 12" x 4" (DIA. x LENGTH x HOOK LENGTH).
 7. ALL CONDUIT AND ATTACHED TO THE PEDESTAL SERVICE AND WITHIN 12 INCHES OF THE PEDESTAL SERVICE WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE SUBSIDIARY TO THE PEDESTAL SERVICE. ALL SERVICE CONDUIT AND CONDUCTORS FROM THE UTILITY COMPANY TRANSFORMER TO A POINT 12" FROM THE PEDESTAL SERVICE SHALL BE PAID FOR SEPARATELY. SERVICE CONDUIT SHALL BE THE SIZE AND TYPE AS SHOWN IN THE PLANS.
 8. THE CONTRACTOR MAY USE A 24" SONATUBE TO FORM THE CONCRETE FOUNDATION INSTEAD OF THE 24" x 24" SQUARE FOUNDATION SHOWN ON THE PLAN FOR THE ELECTRICAL PEDESTAL SERVICE. IF THE 24" ROUND SONATUBE IS USED THE REINFORCING SHALL BE 18" DIAMETER #3 BAR SPIRAL WITH A 6" PITCH AND 4-#4 VERTICAL REBAR SPACED EQUALLY.

	CITY OF FORT WORTH, TEXAS	REVISED: 11-19-2015
	TRAFFIC SIGNAL PEDESTAL SERVICE DETAIL	34 41 10-D603

7/12/2021 12:46:55 PM I:\420006\42487\001\CADD\Sheets\CH42487-TR-SGNL-STANDARD-03.dgn

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Stephen Moore, P.E. 95814 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Half Associates, Inc., 3803 Parkwood Blvd., Ft. Worth, Texas 76104. TBPELS Engineering Firm #312

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 T&P (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

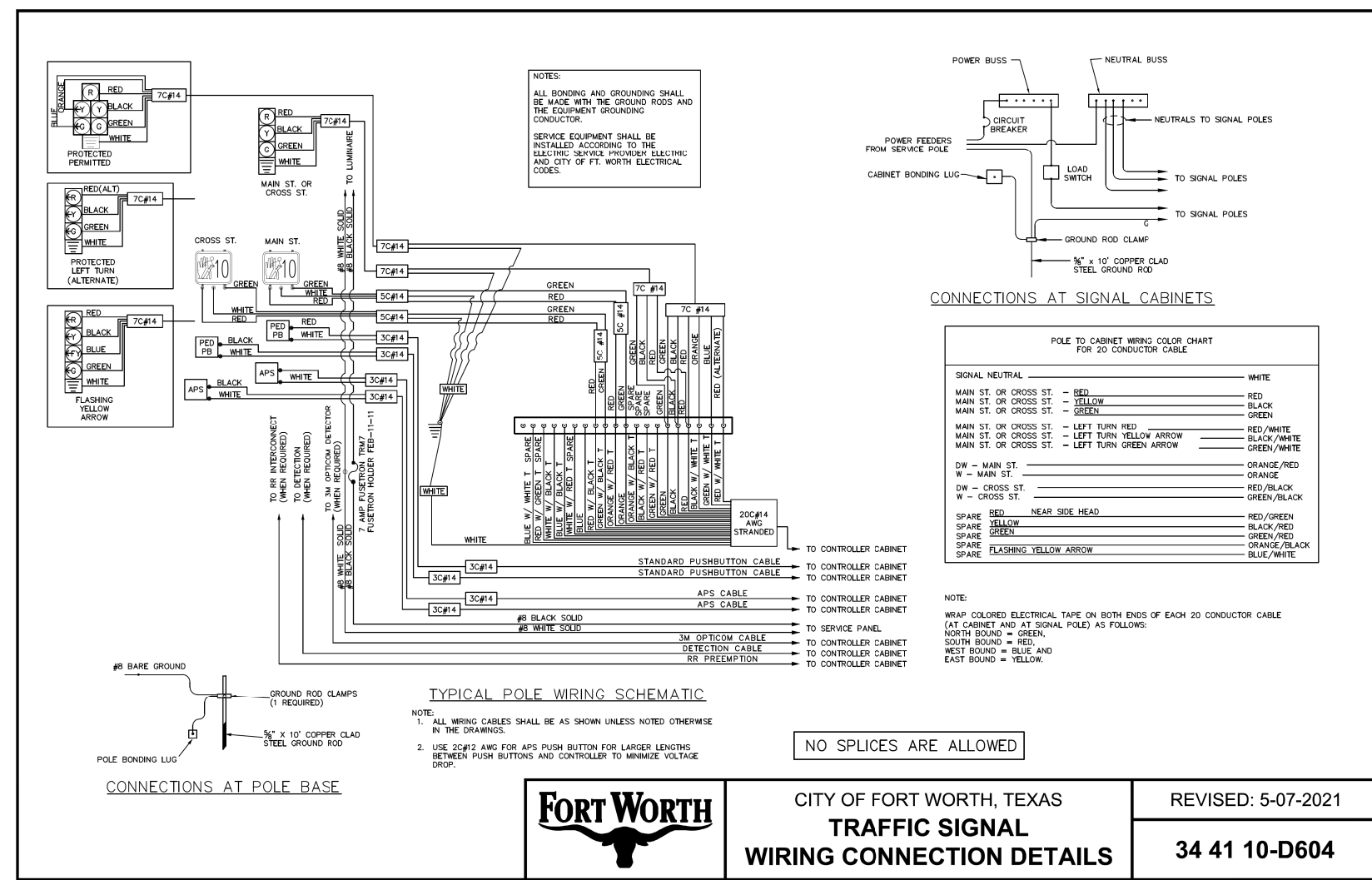
CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TFW 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
 TRAFFIC SIGNAL STANDARD DETAILS
 HARMON RD / EAST BAILEY BOSWELL RD

SHEET 4 OF 16

DESIGNED: SMM	SCALE: N/A	DATE: 07/12/2021	SHEET 177 OF 189
DRAWN: HALFF			



CITY OF FORT WORTH, TEXAS
TRAFFIC SIGNAL WIRING CONNECTION DETAILS

REVISED: 5-07-2021
34 41 10-D604

7/12/2021 12:48:44 PM I:\20006\42487\001\CADD\Sheets\CH42487-TR-SGNL-STANDARD-04.dgn

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Stephen Moore, P.E. 95814 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Half Associates, Inc., 3803 Parkwood Blvd., Ft. Worth, Texas 76104. TBPELS Engineering Firm #312

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 T&P (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-XXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXX-XXXXXXXXXXXX
 SEWER PROJECT # FXXX-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

TRAFFIC SIGNAL STANDARD DETAILS
 HARMON RD / EAST BAILEY BOSWELL RD

SHEET 5 OF 16

DESIGNED: SMM	SCALE: N/A	DATE: 07/12/2021	SHEET 178 OF 189
DRAWN: HALFF			

TOP VIEW

TYPICAL MAST ARM SIGNAL HEAD INSTALLATION
(REAR VIEW OF MAST ARM)

ANCHOR BOLT ASSEMBLY

ANCHOR BOLT AND TEMPLATE SIZES

BOLT DIA.	BOLT LENGTH	TOP THREAD	BOTTOM THREAD	BOLT CIRCLE	R2	R1
3/4"	1'-6"	3"	---	14 1/2"	7 1/2"	5 3/8"
1 1/2"	4'-6"	8"	2 1/2"	15"	8"	6 1/2"
1 3/4"	4'-6"	8"	2 1/2"	17"	10"	7"
2"	4'-6"	8"	2 1/2"	21"	12 1/2"	8 1/2"

MINIMUM DIMENSIONS GIVEN, LONGER BOLTS ARE ACCEPTABLE.

FOUNDATION DESIGN TABLE

FDN. TYPE	POLE TYPE	DRILLED SHAFT DIAMETER	REINFORCING STEEL		DRILLED SHAFT LENGTH (ft)	ANCHOR BOLT DESIGN (1)			FOUNDATION DESIGN LOAD (2)		APPLICATION	POLE HEIGHT (ft.)		
			VERT BARS	SPIRAL & PITCH		ANCHOR BOLT DIA	F _y (ksi)	BOLT OR DIA	ANCHOR TYPE	MOMENT K-ft			SHEAR K-lbs	
1	5'/10'/14'	24"	4-#5	#2 @ 12"	5.0	5/8" x 10'	3/4"	N.A.	14 1/2"	1	N.A.	N.A.	PUSH BUTTON / REDESTAL POLES	5/10/14
2*	8	24"	4-#5	#3 @ 6"	6.0	5/8" x 8'	1"	N.A.	11"	1	N.A.	N.A.	STREET LIGHT POLES	27.5
3	41	30"	8-#9	#3 @ 6"	10.0	5/8" x 10'	1 1/2"	55	15"	2	87	3	16" TO 36" MAST ARM POLES	21
4	43	36"	10-#9	#3 @ 6"	12.0	5/8" x 10'	1 3/4"	55	17"	2	131	5	40" TO 48" MAST ARM POLES	21
5	45	36"	12-#9	#3 @ 6"	13.0	5/8" x 10'	2"	55	21"	2	190	7	52" TO 60" MAST ARM POLES	21

NOTE: TYPES 41, 43, AND 45 HAVE ILLUMINATION
 * SEE STREET LUMINAIRE POLE FOUNDATION DETAILS.

ELEVATION FOUNDATION DETAILS

CITY OF FORT WORTH, TEXAS
**TRAFFIC SIGNAL
 POLE FOUNDATION DETAILS**

REVISED: 5-07-2021
34 41 10-D605

7/12/2021 1:07:46 PM I:\200068142487\001\CADD\Sheets\CH42487-TR-SGNL-STANDARD-05.dgn

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Stephen Moore, P.E. 95814 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Half Associates, Inc., 3803 Parkwood Blvd., Ft. Worth, Texas 76104. TBPELS Engineering Firm #312

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 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

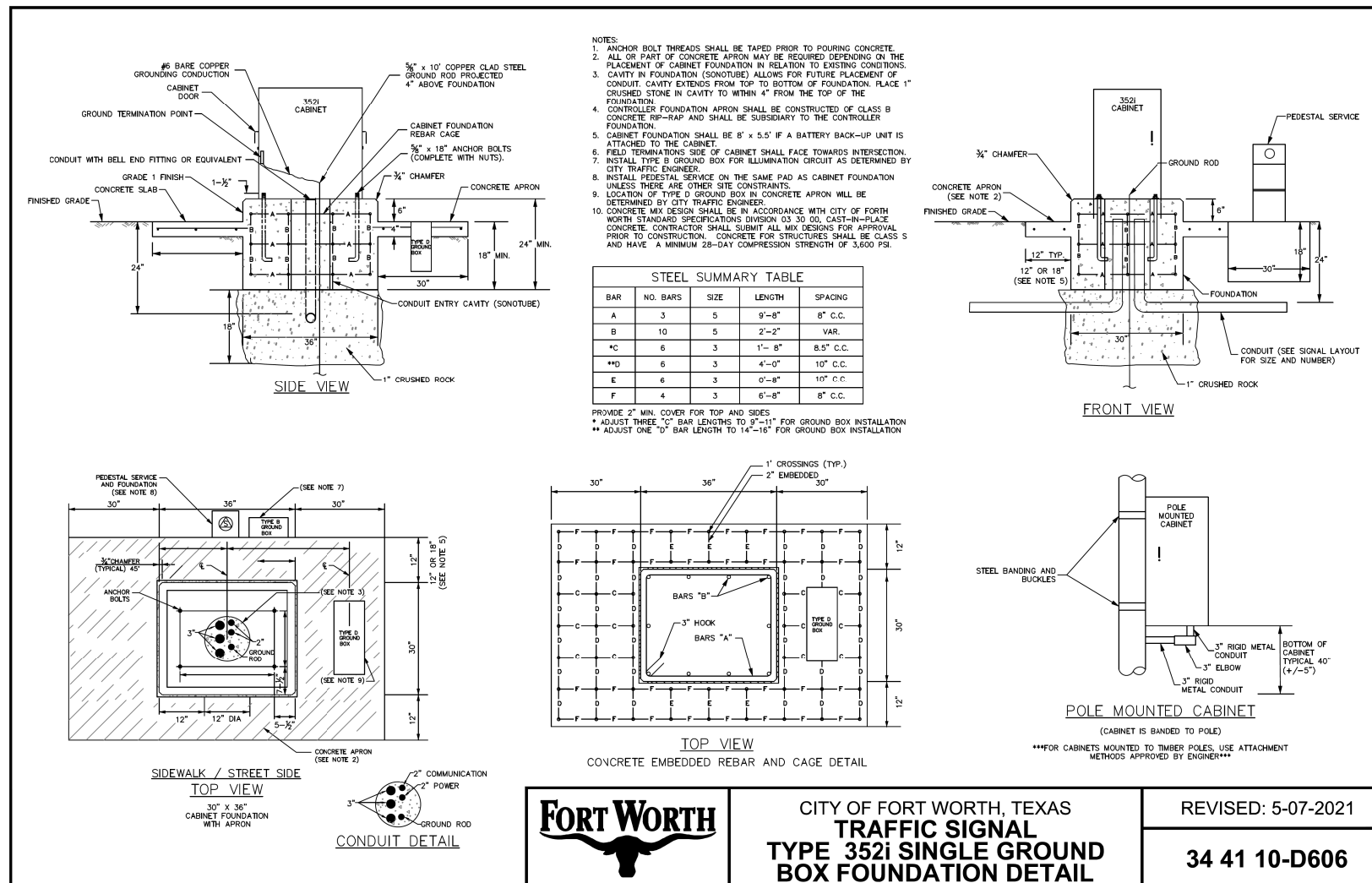
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TFW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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
 TRAFFIC SIGNAL STANDARD DETAILS
 HARMON RD / EAST BAILEY BOSWELL RD

SHEET 6 OF 16

DESIGNED: SMM	SCALE: N/A	DATE: 07/12/2021	SHEET 179 OF 189
---------------	------------	------------------	------------------



CITY OF FORT WORTH, TEXAS
TRAFFIC SIGNAL
TYPE 352i SINGLE GROUND
BOX FOUNDATION DETAIL

REVISED: 5-07-2021

34 41 10-D606

7/12/2021 1:08:42 PM I:\420068\42487\001\CADD\Drawings\CH42487-TR-SGNL-STANDARD-06.dgn

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Stephen Moore, P.E. 95614 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Halff Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034. TBPELS Engineering Firm #312

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 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

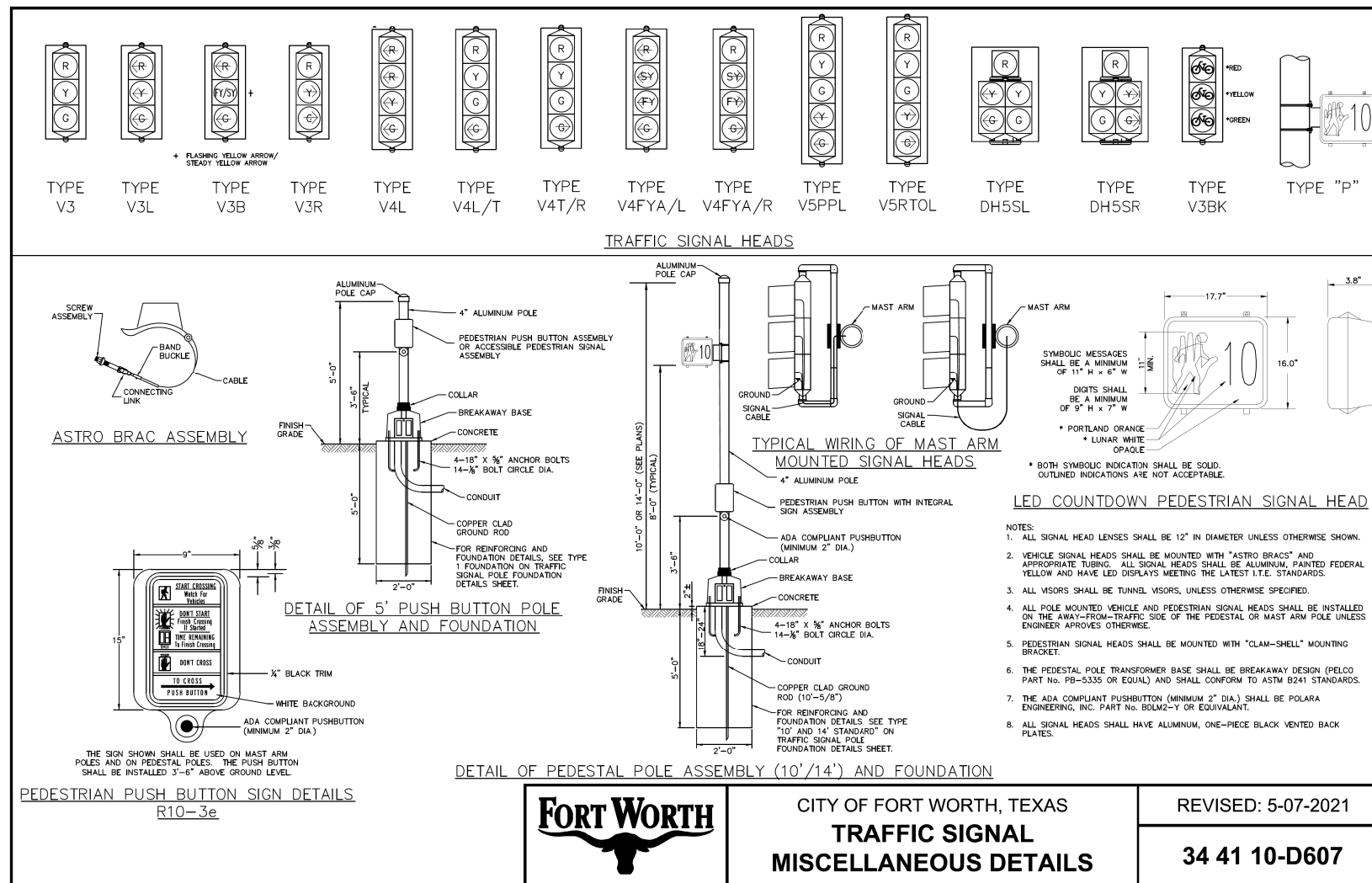
CONTROL POINT #105	CONTROL POINT #109	CONTROL POINT #314
SET 'X-CUT' N: 7006672.75 E: 2327333.06 ELEV: 685.24	SET 'X-CUT' N: 7010405.95 E: 2327011.03 ELEV: 690.73	SET 'PK' NAIL N: 7008953.42 E: 2327060.00 ELEV: 687.97

DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 FFW 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
 TRAFFIC SIGNAL STANDARD DETAILS
 HARMON RD / EAST BAILEY BOSWELL RD

SHEET 7 OF 16

DESIGNED: SMM	SCALE: N/A	DATE: 07/12/2021	SHEET 180 OF 189
DRAWN: HALFF			



CITY OF FORT WORTH, TEXAS
TRAFFIC SIGNAL MISCELLANEOUS DETAILS

REVISED: 5-07-2021
34 41 10-D607

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Stephen Moore, P.E. 95614 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Half Associates, Inc., 3803 Parkwood Blvd., Ft. Worth, Texas 76104. TBPELS Engineering Firm #312

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 T&P (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 #	CONTROL POINT #	CONTROL POINT #
*105	*109	*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
 TFW PROJECT # CXXX-XXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXX-XXXXXXXXXXXX
 SEWER PROJECT # FXXX-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
 TRAFFIC SIGNAL STANDARD DETAILS
 HARMON RD / EAST BAILEY BOSWELL RD

SHEET 8 OF 16

DESIGNED: SMM	SCALE: N/A	DATE: 07/12/2021	SHEET 181 OF 189
DRAWN: HALFF			

FOR THIS INFORMATION SEE TABLE

MEMBER SIZES	1
LUM. ARM DATA	2
POLE LENGTH	3
MATERIAL DATA	4

DESIGNATION KEY
 FW - 41 - 16 - 33A
 LUMINAIRE ARM SERIES (33A, 33B)
 SIGNAL ARM SPAN (16-60)
 POLE TYPE (41, 43, & 45 = 27.5' POLES)
 (42, 44, & 46 = 21.0' POLES)
 FORT WORTH POLE SERIES (FW)

DEVICE	DESCRIPTION	PROJ. AREA (FT ²)	WEIGHT (LBS)
(A)	12"-5 SEC. SIGNAL WITH BACKPLATES	13.33	85
(B)	REGULATORY SIGN 30" X 30"	6.25	15
(C)	12"-3 SEC. SIGNAL WITH BACKPLATES	8.67	60
(D)	STREET NAME SIGN 18" X 84"	10.50	35

DESIGN CRITERIA:
 1994 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS.
 WIND VELOCITY: 80 MPH ISOTACH.

TABLE 1: POLE AND SIGNAL ARM DATA

POLE SERIES	POLE TYPE	DESIGNATION KEY		POLE TUBE		POLE BASE						ANCHOR BOLT				SIGNAL ARM TUBE			
		SIGNAL ARM SPAN (FT)	LUM. ARM SERIES	BASE DIA. (IN)	TOP DIA. (IN)	LENGTH (FT)	CAUSE OR THK. (IN)	SQUARE "S" (IN)	BOLT CIRCLE "M" (IN)	THK. "M" (IN)	HOLE "Z" (IN)	DIA. "Y" (IN)	LENGTH "J" (IN)	THREAD LENGTH "U" (IN)	THREAD LENGTH "W" (IN)	FIXED END DIA. (IN)	FREE END DIA. (IN)	GAUGE	SPAN (FT)
FW	41, 42	16.00	33A, 33B	11.00	11.00	3	16.00	15.00	1.50	1.75	1.50	54.00	8.00	2.50	6.00	3.76	7	16.00	
		20.00	33A, 33B	11.00	11.00	3	16.00	15.00	1.50	1.75	1.50	54.00	8.00	2.50	6.00	3.50	7	20.00	
		24.00	33A, 33B	11.00	11.00	3	16.00	15.00	1.50	1.75	1.50	54.00	8.00	2.50	7.00	3.60	7	24.00	
		32.00	33A, 33B	11.00	11.00	3	16.00	15.00	1.50	1.75	1.50	54.00	8.00	2.50	7.00	3.06	7	28.00	
		36.00	33A, 33B	11.00	11.00	3	16.00	15.00	1.50	1.75	1.50	54.00	8.00	2.50	8.00	3.52	7	32.00	
FW	43, 44	40.00	33A, 33B	13.00	13.00	3	18.00	17.00	1.75	2.00	1.75	54.00	8.00	2.50	10.00	4.40	7	40.00	
		44.00	33A, 33B	13.00	13.00	3	18.00	17.00	1.75	2.00	1.75	54.00	8.00	2.50	10.00	3.84	7	44.00	
		48.00	33A, 33B	13.00	13.00	3	18.00	17.00	1.75	2.00	1.75	54.00	8.00	2.50	10.50	3.78	7	48.00	
FW	45, 46	52.00	33A, 33B	15.25	15.25	0.250	20.00	21.00	1.75	2.25	2.00	54.00	8.00	2.50	12.00	4.72	7/7	52.00	
		56.00	33A, 33B	15.25	15.25	0.250	20.00	21.00	1.75	2.25	2.00	54.00	8.00	2.50	12.00	4.10	5/7	56.00	
		60.00	33A, 33B	15.25	15.25	0.250	20.00	21.00	1.75	2.25	2.00	54.00	8.00	2.50	12.50	4.04	5/7	60.00	

TABLE 2: LUM. ARM DATA

LUMINAIRE ARM SERIES	ARM SPAN "L"	RISE HEIGHT "R"	NOMINAL MOUNTING HEIGHT	POLE TYPE	41	42	43	44	45	46
33A	8'-0"	5'-0"	32'-0"	LENGTH (FT)	27.50	21.00	27.50	21.00	27.50	21.00
33B	8'-0"	5'-0"	30'-0"	TOP DIA (IN)	7.15	8.06	9.15	10.06	11.40	12.31

TABLE 3: POLE LENGTH

POLE TYPE	41	42	43	44	45	46
LENGTH (FT)	27.50	21.00	27.50	21.00	27.50	21.00
TOP DIA (IN)	7.15	8.06	9.15	10.06	11.40	12.31

TABLE 4: MATERIAL DATA

COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)	COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)
TAPERED TUBES	A595 GR. A OR A572	55	LUM. PIPE ARM	2" SCHED 40	35
BASE PLATE	A36	36	LUM. ARM ATTACHMENT	A27 GR 55-35 OR A36	35
ANCHOR BOLTS	F1554 GR 35	55	LUM. ARM BOLTS	SAE GR 5	92
SIGNAL ARM ATTACHMENT	A36	36	GALVANIZING-TUBES	A123	
SIGNAL ARM BOLTS	A325	92	GALVANIZING-HARDWARE	F2329	

NOTES:
 1. INSTALLATION OF DUAL MAST ARMS SHALL BE IN ACCORDANCE WITH TPOST STANDARDS.
 2. INSTALLATION OF 60' MAST ARM SHALL BE IN ACCORDANCE WITH TPOST STANDARDS.
 3. REFER TO STANDARD D690 FOR INSTALLATION OF CANTILEVER ARM FOR METRO SIG.
 4. ALL SIGNAL POLES AND MAST ARMS SHALL BE POWDER COATED BLACK.

CITY OF FORT WORTH, TEXAS
TRAFFIC SIGNAL STRUCTURES
 STANDARD - OPTION 1 (1 OF 2)

DATE: 5-07-2021
34 41 10-D612

7/12/2021 1:10:10 PM I:\420006\42487\001\CADD\Sheets\CH42487-TR-SGNL-STANDARD-08.dgn

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Stephen Moore, P.E. 95614 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Half Associates, Inc., 3803 Parkwood Blvd., Ft. Worth, Texas 76104. TBPELS Engineering Firm #312

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 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
 FFW 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
 TRAFFIC SIGNAL STANDARD DETAILS
 HARMON RD / EAST BAILEY BOSWELL RD

SHEET 9 OF 16

DESIGNED: SMM	SCALE: N/A	DATE: 07/12/2021	SHEET 182 OF 189
DRAWN: HALFF			

REMOVEABLE POLE CAP SECURED TO POLE WITH (3) STAINLESS STEEL SET SCREWS. CAPS ARE ZINC DIE-CAST OR CAST ALUMINUM DEPENDING UPON SIZE OF CAP.

POLE TOP

(T = SHAFT WALL THICKNESS)

POLE SHAFT WALL

(4) ANCHOR BOLTS WITH (2) HEX NUTS, (2) WASHERS AND (1) LOCKWASHER PER BOLT WITH UPPER END GALVANIZED AT LEAST 12".

ANCHOR BOLT

BOLT DIA.	R1	R2
1.50"	6.50"	8.00"
1.75"	7.00"	10.00"
2.00"	8.50"	12.50"

LUMINAIRE ARM ATTACHMENT

HANDHOLE

POLE WALL	A	B	C
3 GA	7.56"	5.19"	0.280"
0.25"	7.31"	5.63"	0.432"

WELDED SIGNAL ARM SPLICE

SPAN	BASE SECTION		END SECTION	
	LENGTH	GAUGE	LENGTH	GAUGE
52.00'	30.00'	7	22.00'	7
56.00'	30.00'	5	26.00'	7
60.00'	21.00'	5	39.00'	7

SIGNAL ARM ATTACHMENT

POLE BASE DIA.	"A" (IN)	"B" (IN)	"C" (IN)	"D" (IN)	"E" (IN)	"F" (IN)
11.00"	12.25	10.75	7.75	9.25	1.25	1.25 X 3.25
13.00"	16.25	15.00	11.00	12.25	1.50	1.50 X 3.50
15.25"	18.75	17.50	13.50	14.75	2.00	1.50 X 4.50

HANDHOLE

POLE BASE

POLE BASE

RADIAL INDEX

NOTES:

- TERMINAL BLOCKS SHALL BE INSTALLED IN EACH POLE.
- TERMINAL BLOCKS SHALL BE 12 POINT, 7 3/8" LONG, STACKED WHEN NEEDED.

CITY OF FORT WORTH, TEXAS
**TRAFFIC SIGNAL STRUCTURES
 STANDARD - OPTION 1 (2 OF 2)**

DATE: 11-19-2015
34 41 10-D613

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Stephen Moore, P.E. 95814 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Half Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034. TBPELS Engineering Firm #312

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 T&P (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

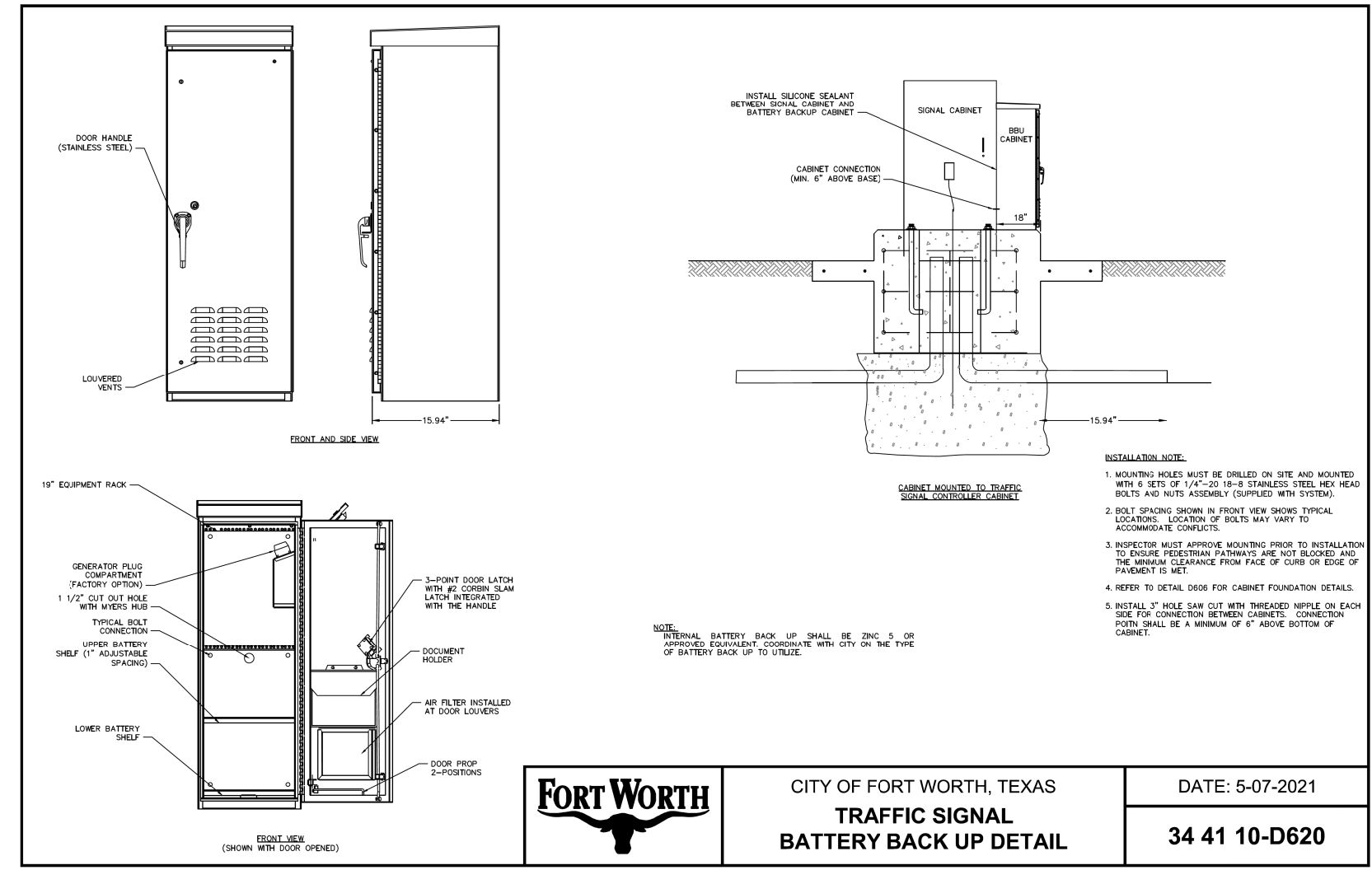
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 FFW PROJECT # CXXX-XXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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
 TRAFFIC SIGNAL STANDARD DETAILS
 HARMON RD / EAST BAILEY BOSWELL RD

SHEET 10 OF 16

DESIGNED: SMM	SCALE: N/A	DATE: 07/12/2021	SHEET 183 OF 189
DRAWN: HALFF			



	CITY OF FORT WORTH, TEXAS	DATE: 5-07-2021
	TRAFFIC SIGNAL BATTERY BACK UP DETAIL	34 41 10-D620

7/12/2021 1:11:47 PM I:\420068\42487\001\CADD\Drawings\CH42487-TR-SGNI-STANDARD-10.dgn

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Stephen Moore, P.E. 95614 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Half Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034. TBPELS Engineering Firm #312

STOPBAR DETECTION MOUNTING

NOTE:
1. WHEN MOUNTING TO BACKSIDE OF MAST ARM, A MINIMUM 6' OFFSET IS RECOMMENDED FROM NEAREST LANE OF DETECTION.

WAVETRONIX CONTROL UNIT

ADVANCED DETECTION MOUNTING

STOPBAR DETECTION PLAN VIEW

SPEED LIMIT	ZONE BEGIN*	ZONE END*
40	295'	175'
45	325'	200'
50	350'	225'
55	400'	250'
60	450'	275'
65	475'	290'

*ALL DISTANCES ARE FROM THE APPROACH STOP BAR

ADVANCED DETECTION PLAN VIEW

NOTES:

- CONTRACTOR SHALL HAVE PREVIOUSLY COMPLETED INSTALLATION TRAINING PROVIDED BY THE RADAR DETECTION SYSTEM MANUFACTURER OR MAKE ARRANGEMENTS FOR THE MANUFACTURER TO INSTALL AND CALIBRATE THE SYSTEM.
- ADVANCED DETECTION TO BE USED ON ROADWAYS WITH APPROACH SPEEDS OF 40 MPH OR GREATER.
- A SELF MOUNT DETECTION CONTROL UNIT WITH SIX PORTS FOR ETHERNET CONNECTIVITY WILL BE REQUIRED.
- THE DETECTION CONTROL UNIT WILL COMMUNICATE WITH CONTROLLERS VIA SDC.

CITY OF FORT WORTH, TEXAS
**TRAFFIC SIGNAL RADAR
DETECTION DETAILS**

DATE: 5-07-2021
34 41 10-D670

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 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
 TRAFFIC SIGNAL STANDARD DETAILS
 HARMON RD / EAST BAILEY BOSWELL RD

SHEET 11 OF 16

DESIGNED: SMM	SCALE: N/A	DATE: 07/12/2021	SHEET 184 OF 189
DRAWN: HALFF			

7/12/2021 1:12:36 PM I:\420006\42487\001\CADD\Sheets\CH42487-TR-SGNL-STANDARD-11.dgn

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Stephen Moore, P.E. 95814 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Half Associates, Inc., 3803 Parkwood Blvd., Ft. Worth, Texas 76104. TBPELS Engineering Firm #312

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 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
 TRAFFIC SIGNAL STANDARD DETAILS
 HARMON RD / EAST BAILEY BOSWELL RD

SHEET 12 OF 16

DESIGNED: SMM	SCALE: N/A	DATE: 07/12/2021	SHEET 185 OF 189
DRAWN: HALFF			

AUDIBLE PEDESTRIAN PUSHBUTTON STATION (APS) NOTES:

- APS PUSHBUTTON STATIONS SHOULD BE LOCATED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 4E.08 OF THE TEXAS MUTCD
- APS PUSHBUTTON STATIONS SHALL COMPLY WITH THE US ACCESS BOARD'S "DRAFT GUIDELINES FOR ACCESSIBLE PUBLIC RIGHTS OF WAY" (PROWAG) SECTION R 306.
- APS PUSHBUTTON STATIONS INCLUDE A PEDESTRIAN SIGN, A PUSHBUTTON, VIBROTACTILE ARROW AND AN AUDIBLE SPEAKER CONTAINED IN ONE UNIT WITH THE FOLLOWING FEATURES:
 - VIBRATING TACTILE ARROW WITH HIGH VISUAL CONTRAST
 - PUSHBUTTON LOCATOR TONE
 - SPEECH WALK MESSAGE FOR THE WALKING PERSON INDICATION
 - SPEECH PUSHBUTTON INFORMATION MESSAGE
 - 9" X 15" PEDESTRIAN SIGN
 - AUDIBLE TONE WALK INDICATIONS
 - AUTOMATIC TONE WALK INDICATIONS
 - AUTOMATIC VOLUME ADJUSTMENT
 - PUSHBUTTON MUST BE ADA COMPLIANT AND ACTIVATE BOTH THE WALK INTERVAL AND ACCESSIBLE PEDESTRIAN SIGNAL.
 - ACTUATION INDICATOR-TONE AND LIGHT
 - EXTENDED BUTTON PRESS WHICH CAN BE USED TO REQUEST A LOUDER WALK SIGNAL AND LOCATOR TONE
 - WEATHER-RESISTANT SPEAKER PROTECTED BY A VANDAL RESISTANT SCREEN

KEY:

- FACE PLATE
- 1/4"-20 X 3/8" LONG STAINLESS STEEL SCREW
- 1/4"-20 STAINLESS STEEL SCREWS
- PUSHBUTTON FRAME ADAPTER
- 1/4"-20 STAINLESS STEEL BOLT W/ WASHER AND LOCK WASHER
- PUSHBUTTON STATION
- DRILL AND TAP SHAFT FOR 1/4" DIAM. BOLT
- DRILL AND TAP SHAFT FOR 5/8" WIRE GUIDE HOLE - ADD INSULINER

APS UNIT PROGRAMMING SETTING WHEN AT LEAST 10' APART

REGULAR PUSH SPEECH MESSAGE	"WAIT"
COUNTDOWN SPEECH MESSAGE	OFF
EXTENDED PUSH SPEECH MESSAGE	"WAIT TO CROSS (STREET BEING CROSSED) AT (CROSS SIDE STREET NAME)"

APS UNIT PROGRAMMING SETTING WHEN LESS THAN 10' APART

REGULAR PUSH SPEECH MESSAGE	"WAIT"
WALK INDICATION SPEECH MESSAGE	"(STREET NAME BEING CROSSED), WALK SIGN IS ON TO (STREET NAME BEING CROSSED)"
COUNTDOWN SPEECH MESSAGE	OFF
EXTENDED PUSH SPEECH MESSAGE	"WAIT TO CROSS (STREET BEING CROSSED) AT (CROSS SIDE STREET NAME)"

WIRE ROUTING PERSPECTIVE VIEW

PEDESTRIAN PUSHBUTTON FRAME ADAPTER

PEDESTRIAN PUSHBUTTON INSTRUCTIONAL SIGN

AUDIBLE PEDESTRIAN PUSHBUTTON STATION (APS) METAL FRAME INSTALLATION

ISOMETRIC VIEW (5" PUSH BUTTON POLE SHOWN)

Fort Worth

**CITY OF FORT WORTH, TEXAS
 AUDIBLE PEDESTRIAN PUSHBUTTON STATION (APS) DETAILS
 SHEET 1 OF 2**

**DATE: 5-07-2021
 34 41 10-D673**

7/12/2021 1:14:36 PM I:\200068\42487\001\CADD\Drawings\CH42487-TR-SGNI-STANDARD-13.dgn

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Stephen Moore, P.E. 95814 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Half Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034. TBPELS Engineering Firm #312

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 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

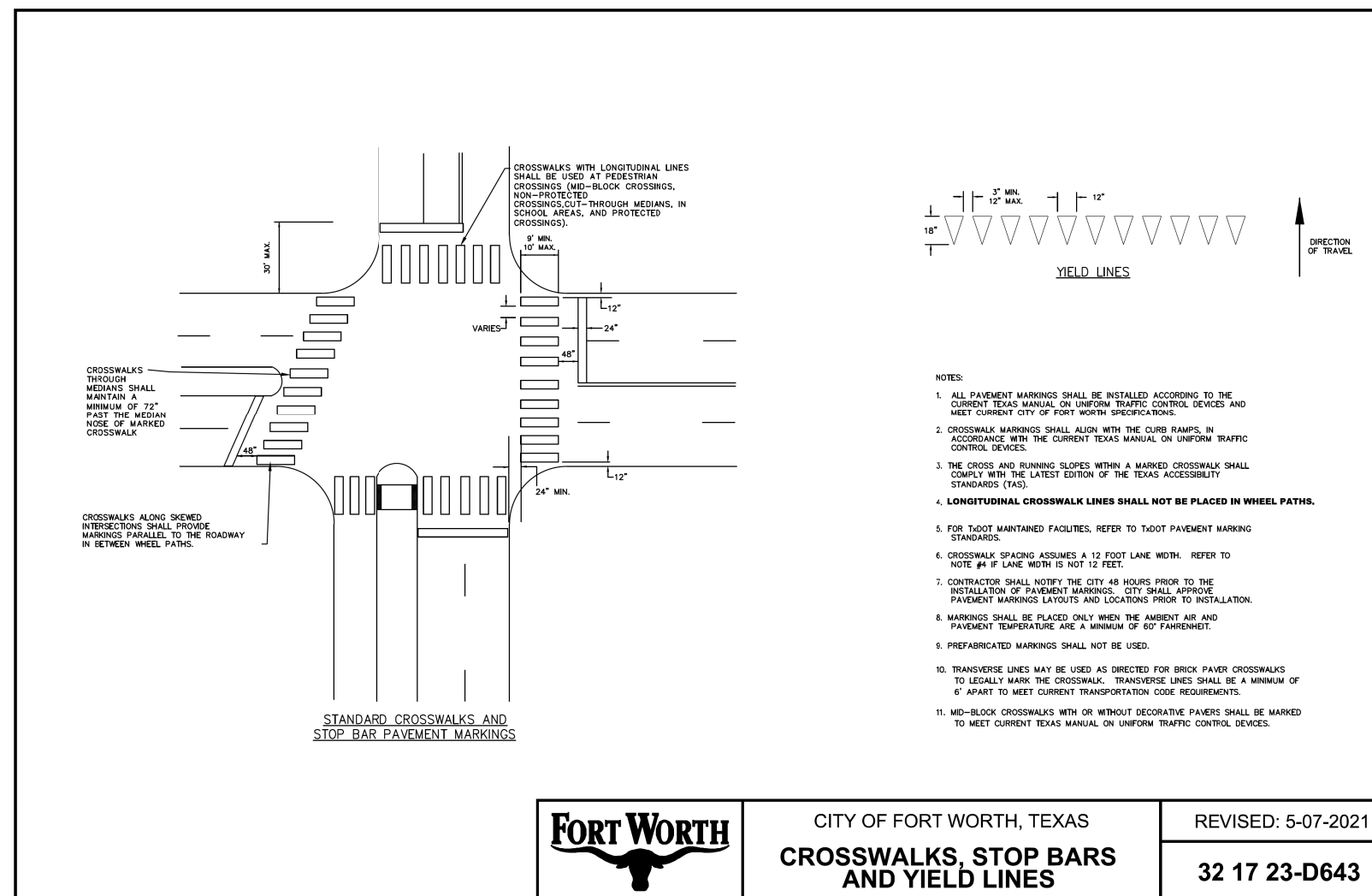
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TFW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # SXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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
 TRAFFIC SIGNAL STANDARD DETAILS
 HARMON RD / EAST BAILEY BOSWELL RD

SHEET 13 OF 16

DESIGNED: SMM	SCALE: N/A	DATE: 07/12/2021	SHEET 186 OF 189
DRAWN: HALFF			



CITY OF FORT WORTH, TEXAS
CROSSWALKS, STOP BARS AND YIELD LINES

REVISED: 5-07-2021
32 17 23-D643

7/12/2021 1:15:23 PM I:\200068\42487\001\CADD\Sheets\CH42487-TR-SGNL-STANDARD-14.dgn

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Stephen Moore, P.E. 95814 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Half Associates, Inc., 3803 Parkwood Blvd., Frisco, Texas 75034. TBPELS Engineering Firm #312

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 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

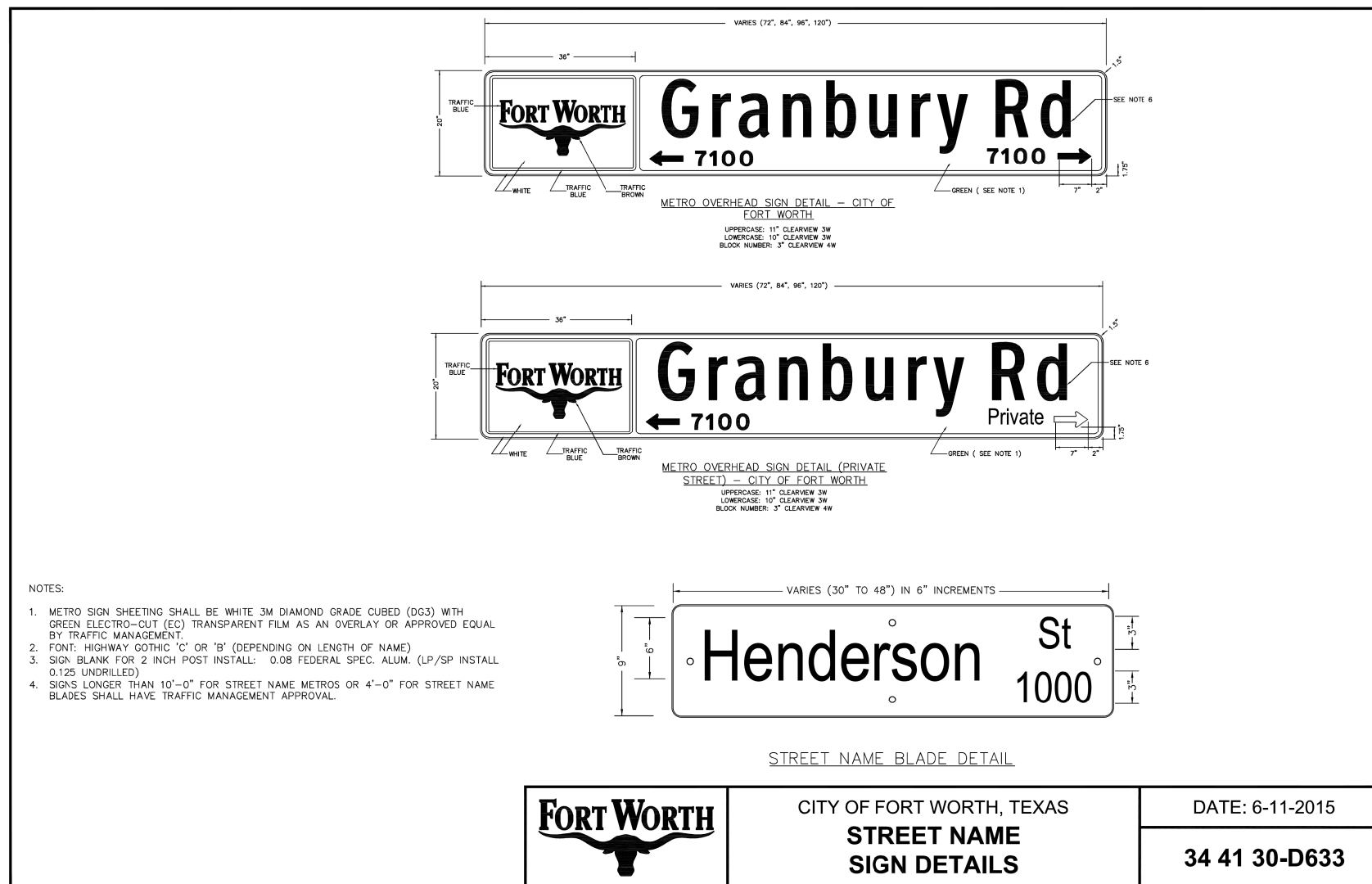
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TPW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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
 TRAFFIC SIGNAL STANDARD DETAILS
 HARMON RD / EAST BAILEY BOSWELL RD

SHEET 14 OF 16

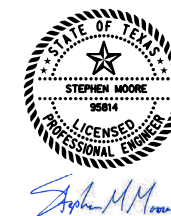
DESIGNED: SMM	SCALE: N/A	DATE: 07/12/2021	SHEET 187 OF 189
DRAWN: HALFF			



- NOTES:
- METRO SIGN SHEETING SHALL BE WHITE 3M DIAMOND GRADE CUBED (DG3) WITH GREEN ELECTRO-CUT (EC) TRANSPARENT FILM AS AN OVERLAY OR APPROVED EQUAL BY TRAFFIC MANAGEMENT.
 - FONT: HIGHWAY GOTHIC 'C' OR 'B' (DEPENDING ON LENGTH OF NAME)
 - SIGN BLANK FOR 2 INCH POST INSTALL: 0.08 FEDERAL SPEC. ALUM. (LP/SP INSTALL 0.125 UNDRILLED)
 - SIGNS LONGER THAN 10'-0" FOR STREET NAME METROS OR 4'-0" FOR STREET NAME BLADES SHALL HAVE TRAFFIC MANAGEMENT APPROVAL.

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Stephen Moore, P.E. 95614 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the offices of Half Associates, Inc., 3803 Parkwood Blvd., Ft. Worth, Texas 76104. TBPELS Engineering Firm #312

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 T&P (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
 FFW 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
 TRAFFIC SIGNAL STANDARD DETAILS
 HARMON RD / EAST BAILEY BOSWELL RD

SHEET 15 OF 16

DESIGNED: SMM	SCALE: N/A	DATE: 07/12/2021	SHEET 188 OF 189
DRAWN: HALFF			

TYPICAL DETECTOR INSTALLATION
 NIGHTTIME - 1. CHANNELIZING DEVICES SHALL BE REFLECTORIZED.

TYPICAL ADVANCE SIGNING

POSTED SPEED	FORMULA	MINIMUM DESIRABLE TAPER LENGTHS**			SUGGESTED MAXIMUM SPACING OF DEVICE		MINIMUM SIGN SPACING
		10'	11'	12'	ON A TAPER	ON A TANGENT	
30	$L = \frac{(WS^2)}{60}$	150'	165'	180'	30'	60'	120'
35		205'	225'	245'	35'	70'	160'
40		265'	295'	320'	40'	80'	240'
45		450'	495'	540'	45'	90'	320'
50	$L = WS$	500'	550'	600'	50'	100'	400'
55		550'	605'	660'	55'	110'	500'
60		600'	660'	720'	60'	120'	600'
65		650'	715'	780'	65'	130'	700'
70		700'	770'	840'	70'	140'	800'
75		750'	825'	900'	75'	150'	900'

** TAPER LENGTHS HAVE BEEN ROUNDED OFF.
 L = LENGTH OF TAPER (FT.) W = WIDTH OF OFFSET (FT.)
 S = POSTED SPEED (MPH)

TYPICAL HANGING SIGNAL INSTALLATIONS
 ADVANCE WARNING CHANNELIZING DEVICES ARE OPTIONAL.

FORT WORTH
 CITY OF FORT WORTH, TEXAS
TRAFFIC CONTROL
TYPICAL INSTALLATIONS

REVISED: 08-31-2012
34 71 13-D660

- LEGEND
- HEAVY WORK VEHICLE
 - TYPE 1 BARRICADE
 - CHANNELIZING DEVICES
 - FLASHING ARROW PANEL
- NOTES:
- THE FLASHING ARROW PANEL MAY BE OMITTED WHEN STATED ELSEWHERE IN THE PLANS.
 - TYPICAL CHANNELIZING DEVICE IS THE 28" CONE. PLASTIC DRUMS MAY BE USED IF APPROVED BY THE ENGINEER. METAL DRUMS SHALL NOT BE USED AS A CHANNELIZING DEVICE OR SIGN SUPPORT.
 - ADVANCE SIGNS AND BARRICADES SHALL BE IN PLACE WHEN SIGNAL CONSTRUCTION OPERATIONS ARE IN PROGRESS. THE CONTRACTOR MAY REMOVE ADVANCE SIGNS AND BARRICADES WHEN NO CONSTRUCTION OPERATIONS ARE UNDERWAY IF PERMITTED ELSEWHERE IN THE PLANS. OBSTRUCTIONS OR HAZARDOUS AT THE WORK AREA SHALL BE CLEARLY MARKED AND DELINEATED AT ALL TIMES.
 - ALL HOLES, TRENCHES OR OTHER HAZARDOUS AREAS SHALL BE ADEQUATELY PROTECTED BY BARRICADES, LIGHTS OR OTHER PROTECTIVE DEVICES. TRENCHES SHALL BE COVERED OR SURROUNDED WITH ORANGE PLASTIC CONSTRUCTION FENCE AS DIRECTED BY THE ENGINEER.
 - FLAGGER AND FCW20-7A SIGN MAY BE REQUIRED ACCORDING TO FIELD CONDITIONS. VEHICLES PARKED IN ROADWAY SHALL BE EQUIPPED WITH TWO STROBES. HIGH LEVEL FLAGS AT CORNERS OF VEHICLE MAY ALSO BE USED. WORK OPERATIONS THAT REQUIRE WORK VEHICLE IN TRAVELED WAY 20 MINUTES OR LESS MAY USE CONES, HIGH LEVEL FLAGS AND STROBES AS ADVANCE WARNING DEVICES. CONES SHOULD ONLY BE PLACED AROUND VEHICLE. FLAGGERS MAY BE USED ON HIGH SPEED RURAL INTERSECTIONS.
 - REFER TO THE LATEST EDITION OF THE TEXAS MUTCD FOR RESTRICTING PEDESTRIAN MOVEMENTS AROUND CONSTRUCTION ACTIVITIES. ANY METHOD USED TO DETOUR PEDESTRIAN AROUND OR THROUGH A CONSTRUCTION ZONE SHALL BE ADA COMPLIANT.

7/12/2021 1:16:14 PM I:\2020\06\14\487\001\CADD\Sheets\CH42487-TR-SGNL-STANDARD-15.dgn

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		



The seal appearing on this document was authorized by Stephen Moore, P.E. 95814 on 07/12/2021. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act. The record copy of this drawing is on file at the office of Half Associates, Inc., 3803 Parkwood Blvd., Ft. Worth, Texas 76104. TBPELS Engineering Firm #312

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 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

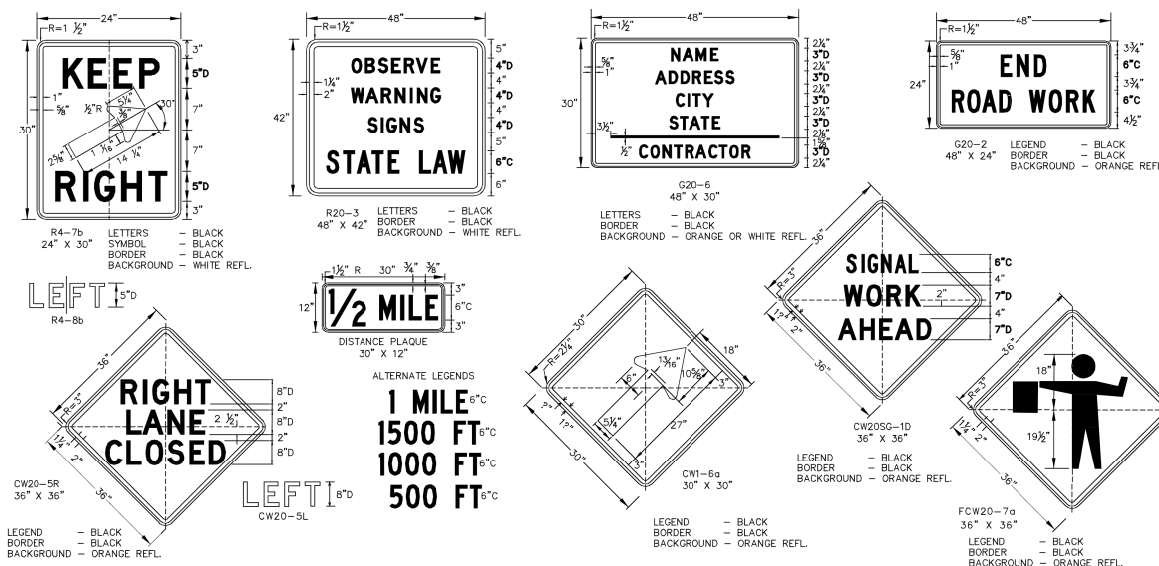
DOE # K-2840
 CITY PROJECT # 103320 MAPSCO NO. 119E AND 119F
 TFW PROJECT # CXXX-XXXXXX-XXXXXXXXXXXX
 WATER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 SEWER PROJECT # PXXX-XXXXXX-XXXXXXXXXXXX
 MAP NO. XXXX-XXX

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
 TRAFFIC SIGNAL STANDARD DETAILS
 HARMON RD / EAST BAILEY BOSWELL RD

SHEET 16 OF 16

DESIGNED: SMM	SCALE: N/A	DATE: 07/12/2021	SHEET 189 OF 189
DRAWN: HALFF			

TYPICAL SIGNS USED IN TRAFFIC SIGNAL CONSTRUCTION AREAS



GENERAL

- ALL SIGN USAGE AND ERECTION SHALL BE IN STRICT ACCORDANCE WITH THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (TMUTCD) LATEST EDITION.
- THE CONTRACTOR SHALL MAINTAIN EACH SIGN AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL USE THE SIGN DESIGNS SHOWN IN THE "STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS" (SHSD). ALL WORK ZONE SIGNS PROVIDED AND SHOWN IN THE TMUTCD BUT NOT DETAIL IN THE PLANS MAY BE USED WHEN DIRECTED BY THE ENGINEER.

REFLECTIVE SHEETING

- REFLECTORIZED SIGNS SHALL BE CONSTRUCTED OF SHEETING MEETING THE COLOR AND RETRO-REFLECTIVITY REQUIREMENTS OF DMS-8300 OR DMS-8310.
- WHITE SHEETING, MEETING THE REQUIREMENTS OF DMS-8300 TYPE C (HIGH SPECIFIC INTENSITY) SHALL BE USED FOR SIGNS WITH WHITE BACKGROUND AND CHANNELIZING DEVICES.
- ORANGE SHEETING, MEETING THE REQUIREMENTS OF DMS-8300 TYPE E (FLUORESCENT PRISMATIC), SHALL BE USED FOR SIGNS WITH ORANGE BACKGROUNDS.

SUPPORTS AND MOUNTING HEIGHT

- REGARDLESS OF THE TYPE OF SUPPORT USED, OR DURATION OF WORK, REGULATORY SIGNS SHOULD NOT BE ERECTED AT HEIGHTS LESS THAN 7 FEET ABOVE THE PAVEMENT SURFACE. THE CONTRACTOR SHALL FURNISH SIGN SUPPORTS LISTED IN THE "COMPLIANT WORK WOOD SIGN POST SUPPORTS ZONE TRAFFIC CONTROL DEVICE LIST" (CWZTOD). SHALL BE PAINTED WHITE.
- SIGNS MAY BE ERECTED ON PORTABLE OR FIXED SUPPORTS FOR USE ON CONSTRUCTION PROJECTS TO WARN OR GUIDE TRAFFIC THROUGH AND/OR AROUND THE ACTUAL CONSTRUCTION AREA.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SIGN SUPPORTS AND SUBSTRATE MEET CRASHWORTHINESS AND LENGTH OF WORK REQUIREMENTS.
- PORTABLE - SIGNS ERECTED ON PORTABLE SUPPORTS FOR USE ON CONSTRUCTION PROJECTS NORMALLY MEAN SIGNS WHICH ARE USED DURING THE DAYTIME TO WARN OR GUIDE TRAFFIC THROUGH AND/OR AROUND THE ACTUAL CONSTRUCTION AREA, BUT AT THE END OF THE WORKDAY SUCH SIGNS ARE REMOVED.
- PORTABLE SUPPORTS SHALL BE AS SHOWN ON THIS SHEET. SIGNS WITH PORTABLE SUPPORTS MAY BE USED FOR SHORT TERM, SHORT DURATION AND MOBILE OPERATIONS. THE BOTTOM OF THE SIGN SHALL BE A MINIMUM OF ONE (1) FOOT ABOVE THE PAVEMENT SURFACE.
- FIXED - SIGNS ERECTED ON FIXED SUPPORTS FOR USE ON CONSTRUCTION PROJECTS NORMALLY MEAN SIGNS THAT ARE TO REMAIN IN PLACE FOR BOTH DAYTIME AND NIGHTTIME USAGE TO REGULATE, WARN AND GUIDE TRAFFIC IN ADVANCE OF AND WITHIN THE LIMITS OF THE PROJECT INCLUDING THE CROSSROAD APPROACHES. SIGNS ERECTED ON FIXED SUPPORTS SHOULD BE AT A MINIMUM HEIGHT OF SEVEN (7) FEET.

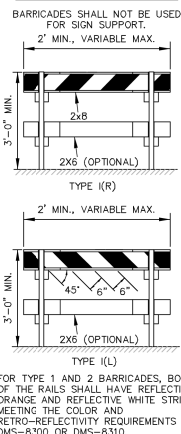
SIGN SUPPORT WEIGHTS

- WHERE SIGN SUPPORTS REQUIRE THE USE OF WEIGHTS TO KEEP FROM TURNING OVER, THE USE OF SOME TYPE OF SANDBAG IS RECOMMENDED. THE USE OF PIECES OF ROCK, CONCRETE, IRON, STEEL, OR OTHER SOLID OBJECTS WILL NOT BE PERMITTED. SANDBAGS SHALL ONLY BE PLACED ALONG OR UPON THE BASE SUPPORTS OF THE DEVICE AND SHALL NOT BE SUSPENDED ABOVE GROUND LEVEL OR HUNG WITH ROPE, WIRE, CHAINS OR OTHER FASTENERS.

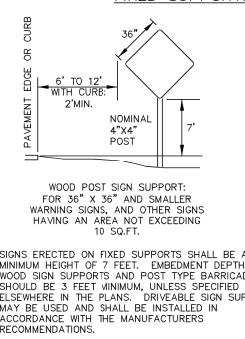
REMOVING OR COVERING

- WHEN SIGN MESSAGES MAY BE CONFUSING OR NO LONGER APPLY, THE SIGNS AND SUPPORTS SHALL BE REMOVED FROM ROADWAY AND SHOULDER, OR THE SIGNS SHALL BE COMPLETELY COVERED. TURNING SIGNS FROM MOTORISTS VIEW WILL NOT BE ALLOWED. WHEN SIGNS ARE COVERED THE MATERIAL USED SHALL BE OPAQUE, SUCH AS HEAVY MILK BLACK PLASTIC. BURLAP SHALL NOT BE USED TO COVER SIGNS. SIGNS SHALL BE REMOVED UPON COMPLETION OF THE WORK.
- DUCT TAPE OR OTHER ADHESIVE MATERIAL SHALL NOT BE AFFIXED TO SIGN FACE.

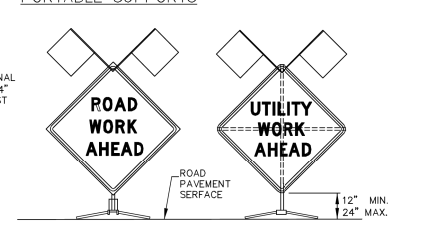
TYPE I BARRICADES



FIXED SUPPORTS



TYPICAL SIGN SUPPORTS



CITY OF FORT WORTH, TEXAS
TRAFFIC CONTROL TYPICAL SIGNS AND BARRICADES

REVISED: 08-31-2012
34 71 13-D661