

LOCATION MAP
N.T.S.

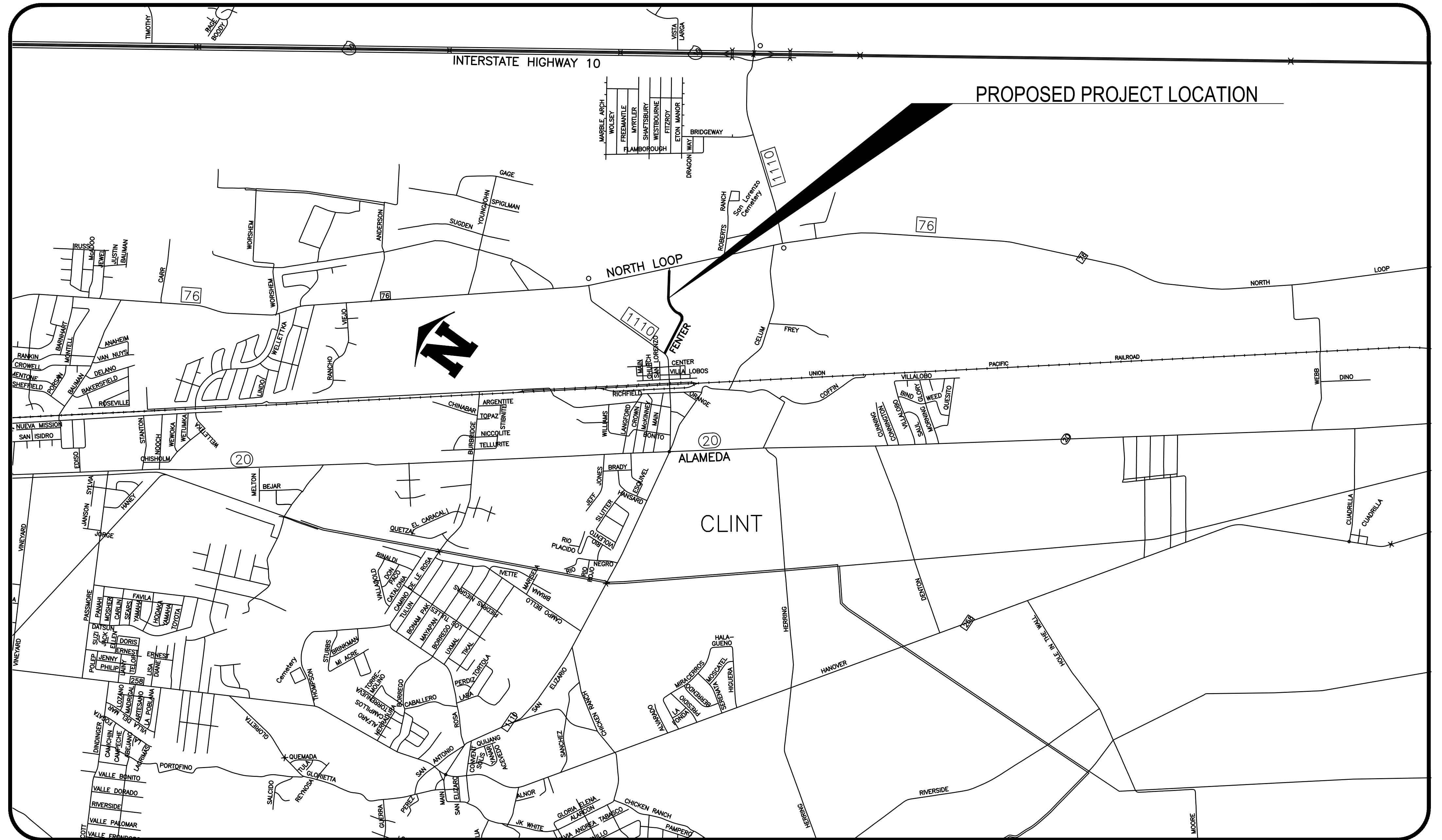


Huitt-Zollars, Inc.
Firm Registration No. F-761

Alejandra Gallegos

ALEJANDRA GALLEGOS, P.E. 123237

DECEMBER 4, 2023
DATE



INDEX OF SHEETS

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LVWD BID NO. 24-0105-02
DECEMBER 2023

PRESIDENT ROSALIA VIGIL
VICE PRESIDENT DAVID CARRASCO
SECRETARY/TREASURER HENRY TRUJILLO
DIRECTOR DAVID ESTRADA
DIRECTOR ROD CHAVEZ
GENERAL MANAGER GERALD GRIJALVA

TOWN OF CLINT MAYOR RAMON CANO

FENTER RD. RECONSTRUCTION

(FROM NORTH LOOP (FM 76) TO FM 1110)



1557 FM 1110 ROAD
CLINT, TEXAS 79836
(915) 791-4480



TOWN OF CLINT
TEXAS

200 N. SAN ELIZABO ED., CLINT, TEXAS 79636



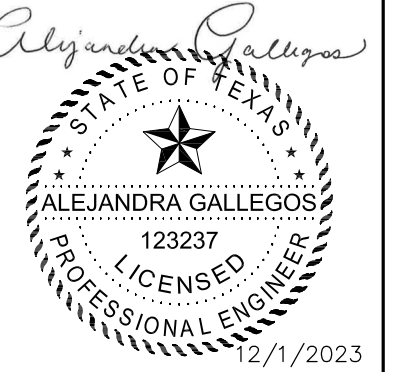
5822 Cromo Drive, Suite 210
El Paso, Texas 79912-5502
915.587.4339
www.huitt-zollars.com

GENERAL NOTES

1. THE CONTRACTOR SHALL VISIT AND BECOME FAMILIAR WITH THE PROJECT SITE PRIOR TO SUBMITTING BIDS.
2. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE VEHICLE AND PEDESTRIAN ACCESS AT ALL TIMES, INCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, TO AREA RESIDENTS. THIS INCLUDES, BUT IS NOT LIMITED TO, DRIVEWAYS, STREETS, PARKING, AND WALKWAYS. THIS REQUIREMENT WILL BE FULFILLED AT NO EXTRA COST TO THE OWNER.
3. CONTRACTOR MUST WATER CONSTRUCTION AREA A MINIMUM OF TWICE A DAY TO KEEP DUST TO A MINIMUM, ONCE IN THE MORNING AND BEFORE QUITTING TIME OR AS REQUIRED. THIS SHALL ALSO BE DONE DURING WEEKENDS AND HOLIDAYS.
4. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE AND PERFORM THE WORK SO AS TO ASSURE PROPER PASSAGE OF STORM RUNOFF DURING THE COURSE OF THE OPERATIONS. ALL LABOR, TOOLS, EQUIPMENT, AND SUPERVISION REQUIRED TO ASSURE SUCH PROPER PASSAGE OF RUNOFF WATER AND ANY REMOVAL OR HANDLING OF WATER IN ORDER TO MAINTAIN DRY CONDITIONS SHALL BE CONSIDERED INCIDENTAL TO THE WORK, AND SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH THE USER, ALL UTILITIES, AND ALL OTHER AGENCIES WITH JURISDICTION OVER THE PROJECT.
6. ALL EXISTING PAVEMENT, ADJACENT UTILITIES, STRUCTURES, ETC., DISTURBED AS A RESULT OF NEW CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
7. THE OWNER WILL FURNISH HORIZONTAL AND VERTICAL CONTROL REFERENCE POINTS ONLY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES BEFORE PROCEEDING WITH THE WORK. ANY DISCREPANCIES FOUND SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER, OTHERWISE THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THEIR CORRECTNESS.
8. RIGHT OF WAY LINES SHOWN HEREON ARE INTENDED TO BE A GRAPHICAL REPRESENTATION AND SERVE FOR INFORMATIONAL PURPOSES ONLY. NO WARRANTIES ARE MADE BY THE SURVEYOR AS TO ITS ACCURACY.
9. ALL ELEVATIONS ARE BASED ON NAVD 88. SEE REFERENCED BENCHMARK IN PLANS.
10. VIBRATORY ROLLERS WILL NOT BE PERMITTED ON ANY PHASE OF THIS PROJECT, UNLESS APPROVED IN WRITING BY ENGINEER. COMPACTION ROLLERS WILL NOT BE PERMITTED OVER CLASS IV STORM DRAIN PIPE.
11. ALL WORK REQUIRED BY THESE PLANS SHALL BE CONDUCTED IN CONFORMANCE WITH CURRENT SAFETY CODES AND STANDARDS WITH JURISDICTION OVER THE PROJECT.
12. MATERIAL TESTING COORDINATION AND COSTS SHALL BE THE RESPONSIBILITY OF THE OWNER. HOWEVER, THE COSTS OF SAMPLING AND TESTING OF MATERIALS FAILING TO CONFORM TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
13. ALL WORK SHALL CONFORM TO THE TOWN OF CLINT, TEXAS SUBDIVISION ORDINANCE, LATEST EDITION, THE TEXAS ACCESSIBILITY STANDARDS AND ADA REQUIREMENTS. ANY CONFLICTS BETWEEN THE PLANS AND SPECIFICATIONS AND THE ORDINANCE, THE CONTRACTOR SHALL CONSULT THE ENGINEER AND OWNER TO DETERMINE WHICH CONTROLS.
14. ANY EXISTING TOWN MONUMENT DISTURBED BY THE CONTRACTOR SHALL BE REPLACED TO THE TOWN STANDARDS BY CONTRACTOR AND CERTIFIED BY A REGISTERED SURVEYOR AT NO COST TO THE TOWN. THE CONTRACTOR'S SURVEYOR SHALL FURNISH A CERTIFIED ELEVATION AND LOCATION FOR EACH REPLACED MONUMENT.
15. ALL EXISTING UTILITY LINES CURRENTLY IN SERVICE MUST REMAIN IN SERVICE THROUGHOUT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITY LINES (INCLUDING SERVICES) FROM DAMAGE AS A RESULT OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL REPLACE ALL UNDERGROUND UTILITY LINES AT NO EXTRA COST TO THE OWNER WHEN LINES ARE DISTURBED AS A RESULT OF THE WORK.
16. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WHETHER INDICATED ON THE DRAWINGS OR NOT, TO VERIFY THE LOCATION, DEPTH, AND CONDITION OF ALL EXISTING UTILITIES AND SUBSTRUCTURES AND PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL CONTACT ALL THE UTILITY COMPANIES AND CONDUCT ALL NECESSARY FIELD INVESTIGATIONS/POTHOLING PRIOR TO ANY EXCAVATION. IF DAMAGE OCCURS, THE CONTRACTOR SHALL IMMEDIATELY CORRECT OR REPLACE EXISTING STRUCTURES OR FACILITIES THAT ARE DAMAGED IN ANY WAY AS A RESULT OF HIS OPERATIONS. THE CONTRACTOR SHALL NOT CUT, REMOVE, CHANGE, OR DISTURB ANY EXISTING LINES OR STRUCTURES, EXCEPT AS PROVIDED BY THE PLANS AND THE SPECIFICATIONS, WITHOUT THE EXPRESS PERMISSION OF THE OWNER OF ANY SUCH LINE.
17. THE CONTRACTOR SHALL PROVIDE THE UTILITY OWNER WITH REASONABLE ADVANCE NOTICE TO PERFORM THE REQUIRED ADJUSTMENTS AND RELOCATIONS. THE CONTRACTOR SHALL INFORM TEXAS GAS OF REQUIRED UTILITY ADJUSTMENTS OR RELOCATIONS AT LEAST THIRTY DAYS IN ADVANCE OF PLANNED CONSTRUCTION.
18. CONTRACTOR SHALL PLACE EROSION CONTROL MEASURES AS SHOWN IN PLANS.
19. CONTRACTOR MAY RE-USE SEDIMENT/EROSION CONTROLS.
20. CONTRACTOR SHALL COORDINATE WITH EL PASO ELECTRIC AT LEAST TWO WEEKS IN ADVANCE OF PLANNED CONSTRUCTION NEAR POWER POLES TO BE ADJUSTED OR REPLACED.
21. PROPOSED SIGNING AND STRIPING SHALL CONFORM TO TXDOT STANDARDS AND TXDOT SPECIFICATION ITEMS 666, 644, AND 658.

GRADING SPECIFICATIONS

1. CLEARING AND GRUBBING: CLEAR SITE OF TREES, SHRUBS AND OTHER VEGETATION; COMPLETELY REMOVE STUMPS, ROOTS AND OTHER DEBRIS PROTRUDING THROUGH GROUND SURFACE; FILL DEPRESSIONS CAUSED BY CLEARING AND GRUBBING OPERATIONS WITH SATISFACTORY FILL MATERIAL, UNLESS FURTHER EXCAVATION OF EARTHWORK IS INDICATED; REMOVE EXISTING ABOVE-GRADE AND BELOW-GRADE IMPROVEMENTS AS INDICATED AND AS NECESSARY TO FACILITATE NEW CONSTRUCTION. BURNING IS NOT PERMITTED ON OWNER'S PROPERTY. REMOVE WASTE MATERIALS FROM OWNER'S PROPERTY AND DISPOSE OF IT IN PROPER LOCATION.
2. ALL EXISTING PAVEMENT SHALL BE COMPLETELY REMOVED AND DISPOSED OFF-SITE. DEMOLITION DEBRIS SHALL BE REMOVED AND DISPOSED OFF-SITE AS PER LOCAL REGULATIONS.
4. HMAC MATERIAL SHOULD CONFORM TO TYPE C, IN ACCORDANCE WITH THE SPECIFICATIONS. THE HMAC MIX SHOULD HAVE A MINIMUM 1,500 POUNDS OF MARSHALL STABILITY WHEN COMPACTED AT 75 BLOWS IN ACCORDANCE WITH ASTM D-1559, AND SHOULD HAVE A FLOW BETWEEN 8 AND 16. THE HMAC COURSE SHOULD BE PLACED AT A TARGET DENSITY OF AT LEAST 98 PERCENT.
5. THE CRUSHED STONE BASE COURSE (CSBC) SHOULD BE ITEM 247, TYPE A, GRADE 3 IN ACCORDANCE WITH THE TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES. CSBC MATERIALS SHOULD BE PLACED IN LOOSE LIFTS NOT EXCEEDING 6 INCHES IN COMPACTED THICKNESS, AND COMPACTED TO 100 PERCENT OF MAXIMUM DRY DENSITY AND A MOISTURE CONTENT WITHIN PLUS OR MINUS 2 PERCENT, IN ACCORDANCE WITH ASTM D-1557.
6. SATISFACTORY FILL MATERIALS: SELECT FILL MATERIAL SHOULD BE GRANULAR, COHESIONLESS, AND FREE OF DELETERIOUS MATERIAL AND PARTICLES OVER 4 INCHES IN GREATEST DIMENSION. SOILS PROPOSED FOR USE AS FILL MATERIALS SHOULD BE CLASSIFIED IN ACCORDANCE WITH ASTM D-2487. THE FOLLOWING SOILS CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM (USCS) CAN BE CONSIDERED SATISFACTORY FOR USE AS SELECT FILL: GM, GC, GW-GM, GW-GC, GP, GP-GM AND GP-GC, SM, SC, SW-SM, SW-SC, SP-SM, SW-SC AND SC-SM.
7. UNSATISFACTORY FILL MATERIAL: THE FOLLOWING USCS-CLASSIFIED SOILS ARE NOT CONSIDERED SATISFACTORY FOR USE AS SELECT FILL: CH, CL, MH, ML, OH, OL AND PT, OR SOILS THAT EXCEED A LIQUID LIMIT OF 40 AND A PLASTICITY INDEX OF 15.
8. EXCAVATION: IS UNCLASSIFIED AND INCLUDES EXCAVATION TO ELEVATIONS INDICATED, REGARDLESS OF CHARACTER OF MATERIAL AND OBSTRUCTIONS ENCOUNTERED.
9. SELECT FILL SHOULD BE PLACED IN UNIFORM LAYERS NOT EXCEEDING 8 INCHES IN COMPACTED THICKNESS, MOISTURE-CONDITIONED TO ADD THE AMOUNT OF MOISTURE REQUIRED FOR OPTIMUM COMPACTION AND COMPACTED TO A MINIMUM OF 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-1557 (MODIFIED PROCTOR) PROCEDURES. THE MOISTURE CONTENT SHOULD BE AT PLUS OR MINUS 3 PERCENT OF OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D-1557. THIS COMPACTION REQUIREMENT ALSO APPLIES TO THE SUBGRADE SOILS THAT WILL RECEIVE SELECT FILL. HOWEVER, IF THE SUBGRADE SOILS CONSIST OF COHESIVE SOILS SUCH AS CL OR CH, OR IF THE PLASTICITY INDEX EXCEEDS 18, THE SUBGRADE SOILS SHOULD BE COMPACTED TO A MINIMUM OF 95 PERCENT. COMPACTION OF THE FILL MATERIAL AND SUBGRADE SOILS SHOULD BE CONDUCTED WITH APPROVED TYPES OF PNEUMATIC, POWER OR TAMPING EQUIPMENT. DETERMINATION OF DENSITY IN THE FIELD SHOULD BE CONDUCTED IN ACCORDANCE WITH ASTM D-2922 OR D-1556.
10. ONCE THE ELEVATION OF THE NATIVE SUBGRADE HAS BEEN ESTABLISHED, THE NATIVE SUBGRADE SOILS THAT WILL SUPPORT PREPARED SELECT FILL, BASE COURSE AND THE PAVEMENT STRUCTURE SHOULD BE STRIPPED OF ALL EXISTING PAVEMENT MATERIALS, VEGETATION, ORGANIC MATTER, TOPSOIL, AND/OR FOREIGN MATTER. THE EXPOSED SUBGRADES SHOULD BE THOROUGHLY PROOFROLLED IN ORDER TO LOCATE AND DENSIFY ANY WEAK, COMPRESSIBLE ZONES. A MINIMUM OF 5 PASSES OF A FULLY-LOADED DUMP TRUCK OR CONSTRUCTION EQUIPMENT WITH SIMILAR AXLE LOADS SHOULD BE USED FOR EVALUATION PURPOSES. WEAK OR SOFT AREAS IDENTIFIED DURING PROOFROLLING SHOULD BE SCARIFIED AND RECOMPACTED OR REMOVED AND REPLACED WITH A SUITABLE, COMPACTED SELECT FILL. THESE WEAK OR SOFT SOIL ZONES (I.E., PUMPING AREAS) SHOULD BE RECOMPACTED OR REMOVED TO A MINIMUM DEPTH OF 8-INCHES OR AS REQUIRED TO APPROXIMATELY BRIDGE OVER THESE ZONES.
11. RECOMPACTED NON-COHESIVE SUBGRADE SOILS (I.E., SILTY SANDS OR POORLY GRADED SANDS) SHOULD BE MOISTURE CONDITIONED BY SCARIFYING TO A MINIMUM DEPTH OF 8-INCHES AND SHOULD BE RECOMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AT ±3 % OF OPTIMUM MOISTURE AS DETERMINED BY ASTM D 1557. THE MOISTURE CONTENT OF THE SUBGRADE SHOULD BE MAINTAINED UNTIL PERMANENTLY COVERED.
12. IN AREAS WHERE PUMPING OCCURS, THE CONTRACTOR SHALL REMOVE THE SATURATED MATERIAL AND REPLACE WITH CEMENT STABILIZED BACKFILL (2-SACK). THIS SHALL BE SUBSIDIARY TO ITEM 13 COMPACTED SELECT FILL AND ITEM 14 SUBGRADE PREPARATION.
13. QUALITY CONTROL: FIELD DENSITY TESTS SHALL BE MADE BY GEOTECHNICAL ENGINEER AS SPECIFIED IN THE SPECIFICATIONS. DENSITY TESTS SHALL BE TAKEN IN THE COMPACTED MATERIAL BELOW THE DISTURBED SURFACE. WHEN THESE TESTS INDICATE THAT THE DENSITY OF ANY LAYER OF FILL OR PORTION THEREOF IS BELOW THE REQUIRED DENSITY, THE PARTICULAR LAYER OR PORTION SHALL BE REWORKED UNTIL THE REQUIRED DENSITY HAS BEEN OBTAINED.
14. REFER TO SPECS FOR MATERIAL TESTING.
15. AFTER A COMPACTED LAYER PASSES THE DENSITY TEST, THE PLACEMENT OF THE NEXT LAYER SHALL BE DONE AS SOON AS POSSIBLE, BUT NOT EXCEED TWO CALENDAR DAYS. IF THERE IS RAIN AFTER A LAYER IS COMPACTED AND ITS DENSITY APPROVED, IT SHALL BE ALLOWED TO DRY BEFORE DENSITY TESTING IS CONDUCTED AGAIN TO VERIFY PROPER COMPACTION.



Huitt-Zollars, Inc.
Firm Registration No. F-761

Mark	Description	P.D. NO.	Action	Date

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	R. BELTRAN	R. MEDINA	03062303.DWG
Clid by:	 	 	Plot scale:
A. GALLEGOS			1:1

Lower Valley WATER DISTRICT
TOWN OF CLINT TEXAS
 6102 Coates Park, Suite 101
 El Paso, Texas 79912-5802
 915.897.0339
 www.lvalleywater.com

HUITT ZOLLARS

FENTER RD. RECONSTRUCTION
TOWN OF CLINT, TEXAS

GENERAL NOTES

HA:\PROJECTS\2023\03 - FENTER RD. RECONSTRUCTION\10 CAD & BIM\10.1 AUTOCAD SHEETS\02_63963303-CONSTR.DWG

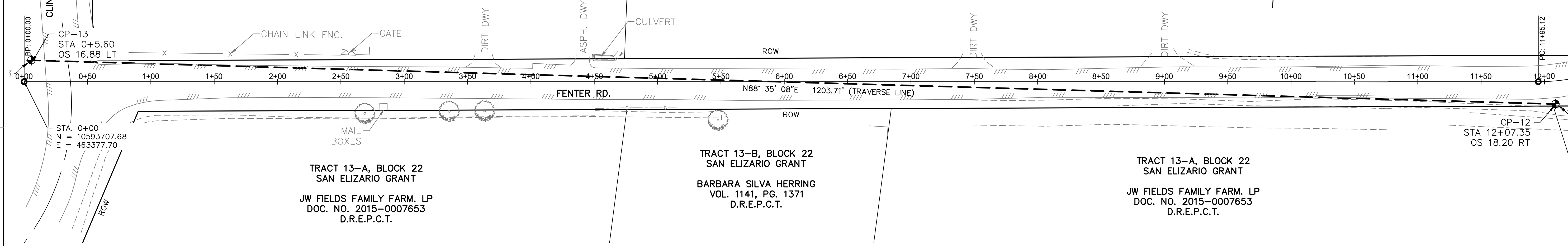
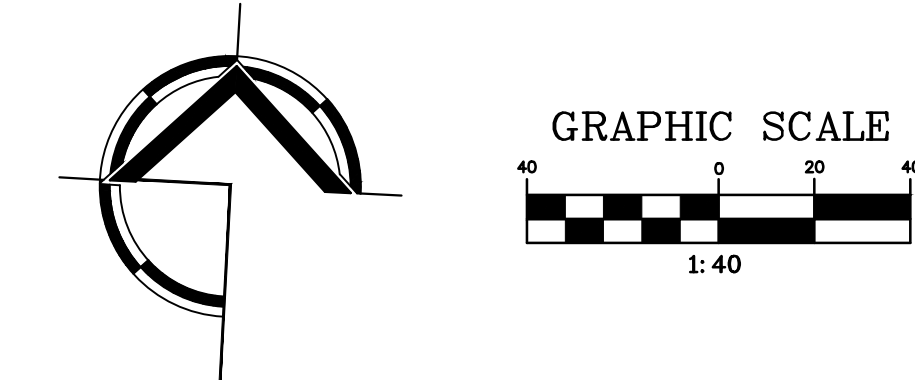
FENTER RD WEST SEGMENT

ALL OF TRACTS 14-A, 14-B, 14-C, & A
PORTION OF TRACT 15-A, BLOCK 22
SAN ELIZARIO GRANT

MICHAEL CHARLES HAMLIN & CYNTHIA JEWELL
HAMLIN
DOC. NO. 2017-0027304
D.R.E.P.C.T.

TRACT 29 & A PORTION OF TRACT 15-A,
BLOCK 22
SAN ELIZARIO GRANT

MARK MARTINEZ & CLAUDIA GONZALEZ
DOC. NO. 2015-0039240
D.R.E.P.C.T.



FENTER RD EAST SEGMENT

PORTION OF TRACT 6 AND 15-B, BLOCK 22
SAN ELIZARIO GRANT

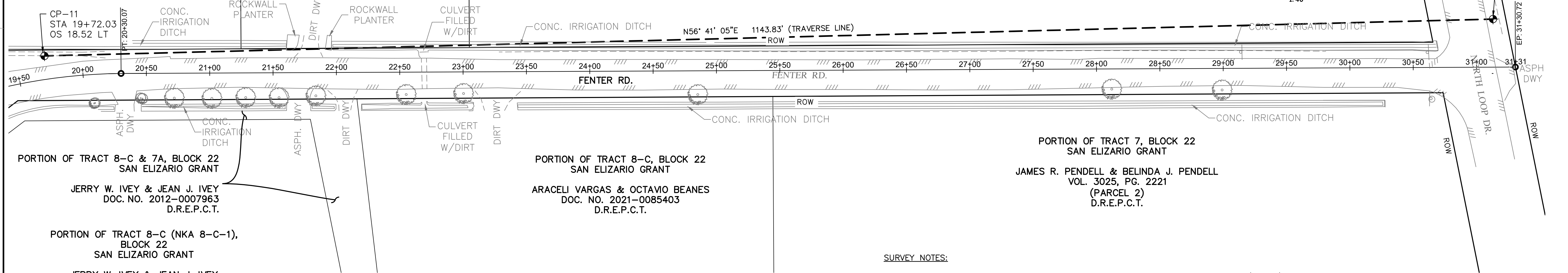
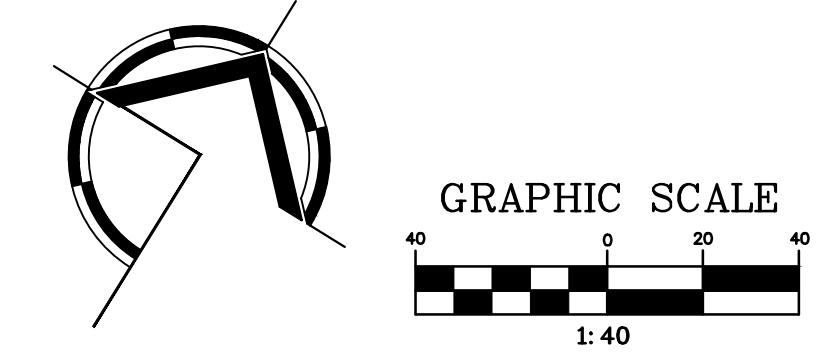
JAMES R. PENDELL & BELINDA J. PENDELL
VOL. 3025, PG. 2221
(PARCEL 3)
D.R.E.P.C.T.

PORTION OF TRACT 6, BLOCK 22
SAN ELIZARIO GRANT

JAMES R. PENDELL & BELINDA J. PENDELL
DOC. NO. 2009-0022085
D.R.E.P.C.T.

PORTION OF TRACT 6 AND 15-B, BLOCK 22
SAN ELIZARIO GRANT

JAMES R. PENDELL & BELINDA J. PENDELL
VOL. 3025, PG. 2221
(PARCEL 3)
D.R.E.P.C.T.



PORTION OF TRACT 8-C & 7A, BLOCK 22
SAN ELIZARIO GRANT

JERRY W. IVEY & JEAN J. IVEY
DOC. NO. 2012-0007963
D.R.E.P.C.T.

PORTION OF TRACT 8-C, BLOCK 22
SAN ELIZARIO GRANT

ARACELI VARGAS & OCTAVIO BEANES
DOC. NO. 2021-0085403
D.R.E.P.C.T.

PORTION OF TRACT 7, BLOCK 22
SAN ELIZARIO GRANT

JAMES R. PENDELL & BELINDA J. PENDELL
VOL. 3025, PG. 2221
(PARCEL 2)
D.R.E.P.C.T.

SURVEY NOTES:

- THE HORIZONTAL DATUM IS BASED ON THE TEXAS COORDINATE SYSTEM OF 1983 (NAD83), CENTRAL ZONE (4203), DISTANCES SHOWN ARE SURFACE DISTANCES USING A GROUND SCALE FACTOR OF 1.000231, SCALED AT N=0, E=0.
- THE VERTICAL DATUM IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), USING GEOID 18. A NATIONAL GEODETIC SURVEY (NGS) MONUMENT CE0373, DESIGNATION Z 1392, A STAINLESS STEEL ROD LOCATED ABOUT 100 FEET EAST SOUTHEAST OF SOUTHERN PACIFIC RAILROAD MILEPOST 809, WAS SURVEYED FOR COMPARISON:

SURVEYED VALUES: N=10,600,607.55 (SURFACE)
E=457,550.47 (SURFACE)
EL=3637.90

PUBLISHED ELEVATION=3638.32.
- COORDINATES & ELEVATIONS SHOWN HEREON WERE ESTABLISHED THROUGH GPS OBSERVATIONS, USING VRS NETWORK "EL PASO ISLAND", ADMINISTERED BY ALLTERRA CENTRAL.
- CONTOURS AND PLANIMETRIC FEATURES SHOWN HEREON ARE BASED ON AN ON-THE-GROUND TOPOGRAPHIC SURVEY, PERFORMED DURING MARCH, 2021.
- UNIT OF MEASURE: U.S. SURVEY FOOT.
- THIS IS NOT A RIGHT OF WAY SURVEY, RIGHT OF WAY & ADJOINING PROPERTY LINES ARE SHOWN FOR INFORMATIONAL PURPOSES AND ARE APPROXIMATE. NO WARRANTIES ARE MADE BY THE SURVEYOR AS TO THEIR ACCURACY.
- EXISTING CONDITIONS SHOWN FROM STATION 12+00 TO 19+50 WAS PROVIDED BY OTHERS.

CONTROL POINTS				
CONTROL POINT NAME	NORTHING (SURFACE)	EASTING (SURFACE)	ELEVATION (NAVD 88)	DESCRIPTION
CP 10	10595065.07	465790.16	3637.14	"SET 1/2" REBAR W/CAP REFERENCE MONUMENT"
CP 11	10594436.82	464834.30	3639.29	"SET 1/2" REBAR W/CAP REFERENCE MONUMENT"
CP 12	10593754.55	464585.74	3638.39	"SET 1/2" REBAR W/CAP REFERENCE MONUMENT"
CP 13	10593724.84	463382.40	3637.28	"SET 1/2" REBAR W/CAP REFERENCE MONUMENT"

LEGEND

- CONTROL POINT LOCATION
- CONTROL POINT
- PLAT RECORDS EL PASO COUNTY TEXAS
- DEED RECORDS EL PASO COUNTY TEXAS
- PROPOSED ALIGNMENT
- CONTROL POINT TRAVERSE LINE
- EDGE OF PAVEMENT

Rev.	Date	Design file no.	Drawing code	Drawn by	Checked by	Reviewed by
	11-15-2022			JAJAGES	C. WEGMANN	C. WEGMANN

TOWN OF CLINT TEXAS

HUIT-ZOLAHS INC.
ENGINEERING & SURVEYING
1000 W. 10TH ST. SUITE 500
EL PASO, TEXAS 79912-5400
TEL: 957-4339 / FAX: (915) 587-5247
FIRM REGISTRATION 1-281 (915)

WARNING!
BEFORE YOU DIG
CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UNDERGROUND IMPROVEMENTS IN PROJECT AREA

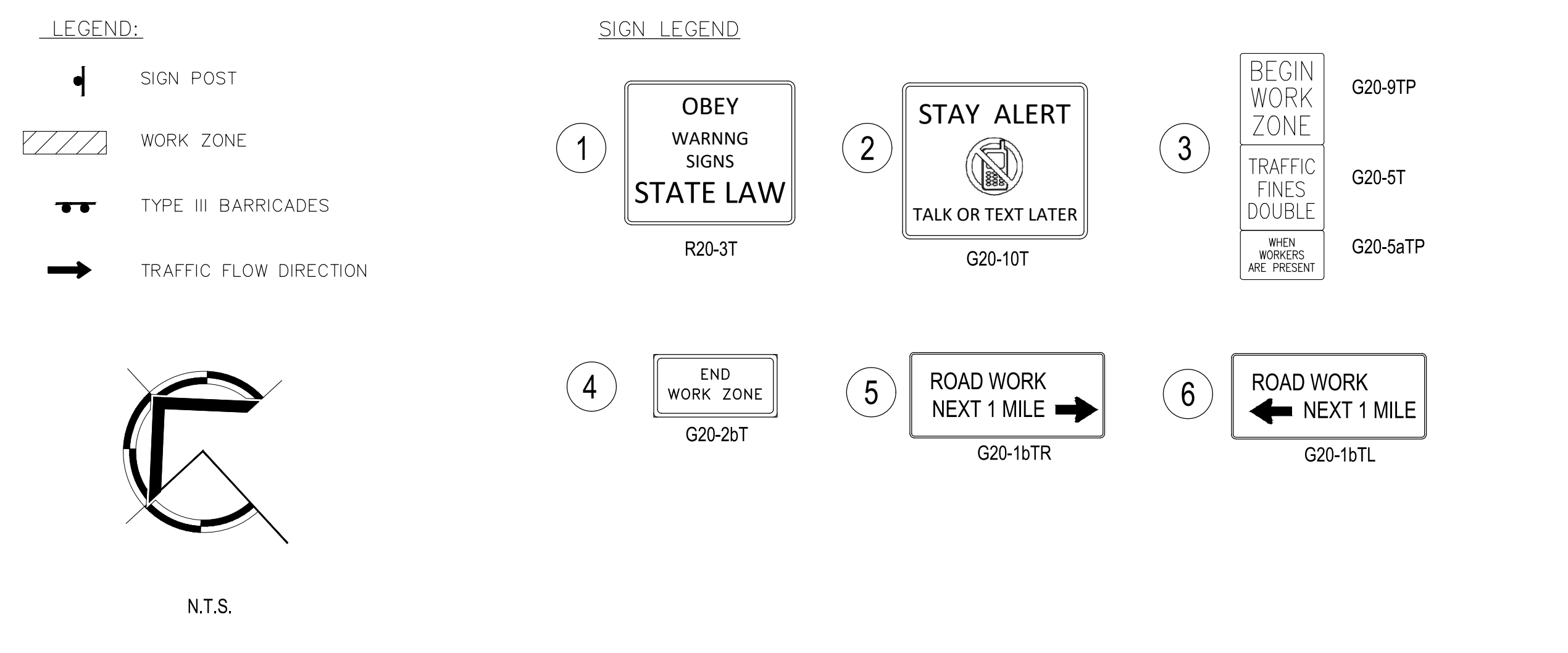
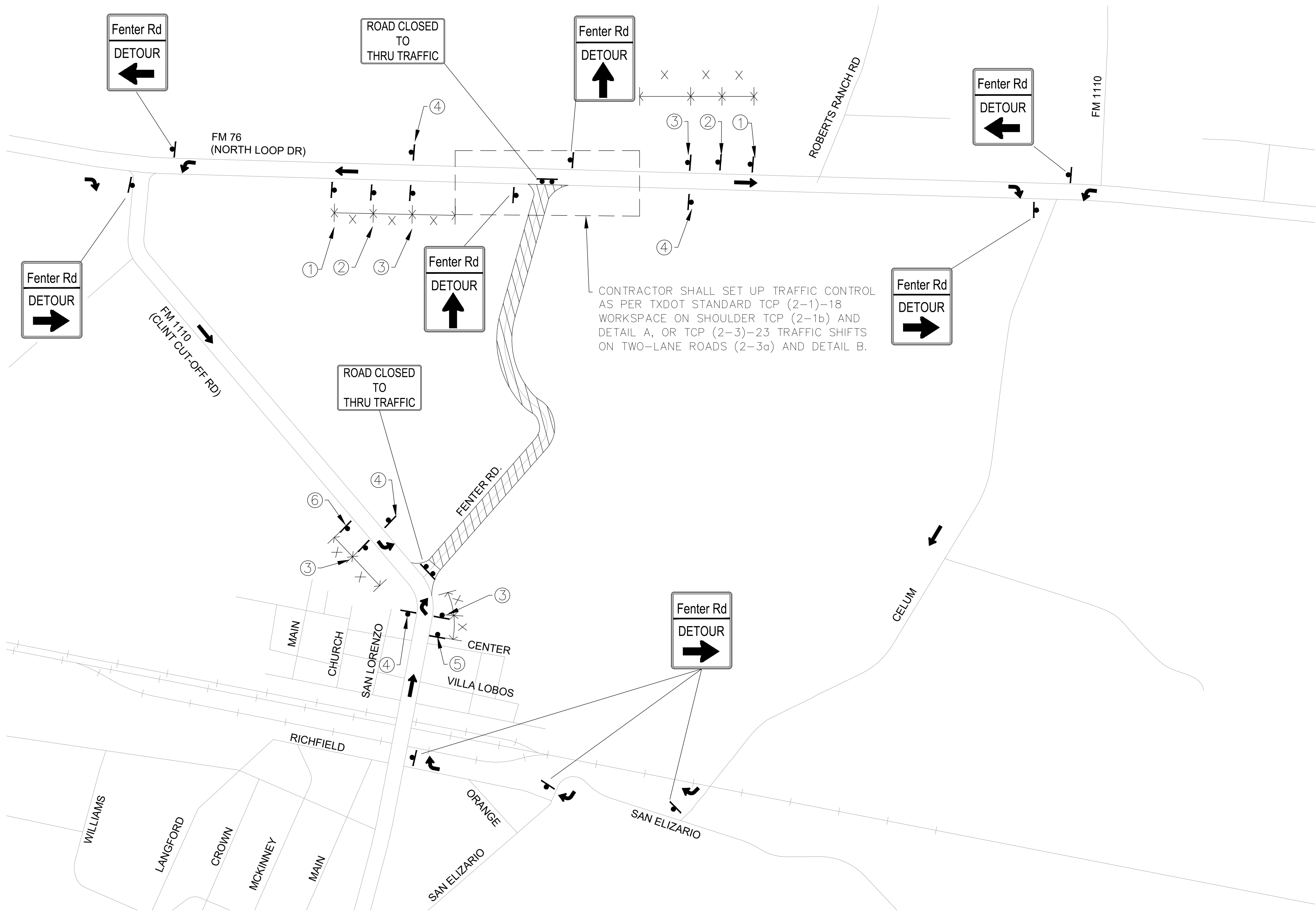
UTILITY LOCATOR SERVICES

TOWN OF CLINT MAIN OFFICE	1-915-851-3146
LOWER VALLEY WATER DISTRICT	1-915-791-4480
TEXAS GAS SERVICE	1-800-700-2443
EL PASO NATURAL GAS	1-800-334-8047
A T & T	1-800-924-9420
EL PASO ELECTRIC COMPANY	1-800-252-1133
SPECTRUM	1-915-772-1123
TESS (MEMBER UTILITIES.)	1-800-852-3786

FENTER RD. RECONSTRUCTION
TOWN OF CLINT, TEXAS

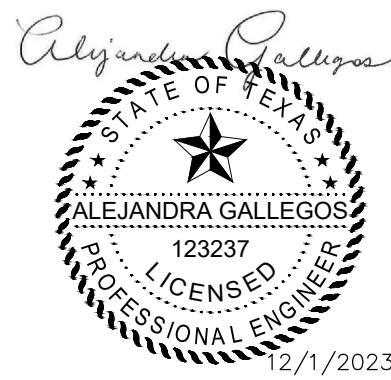
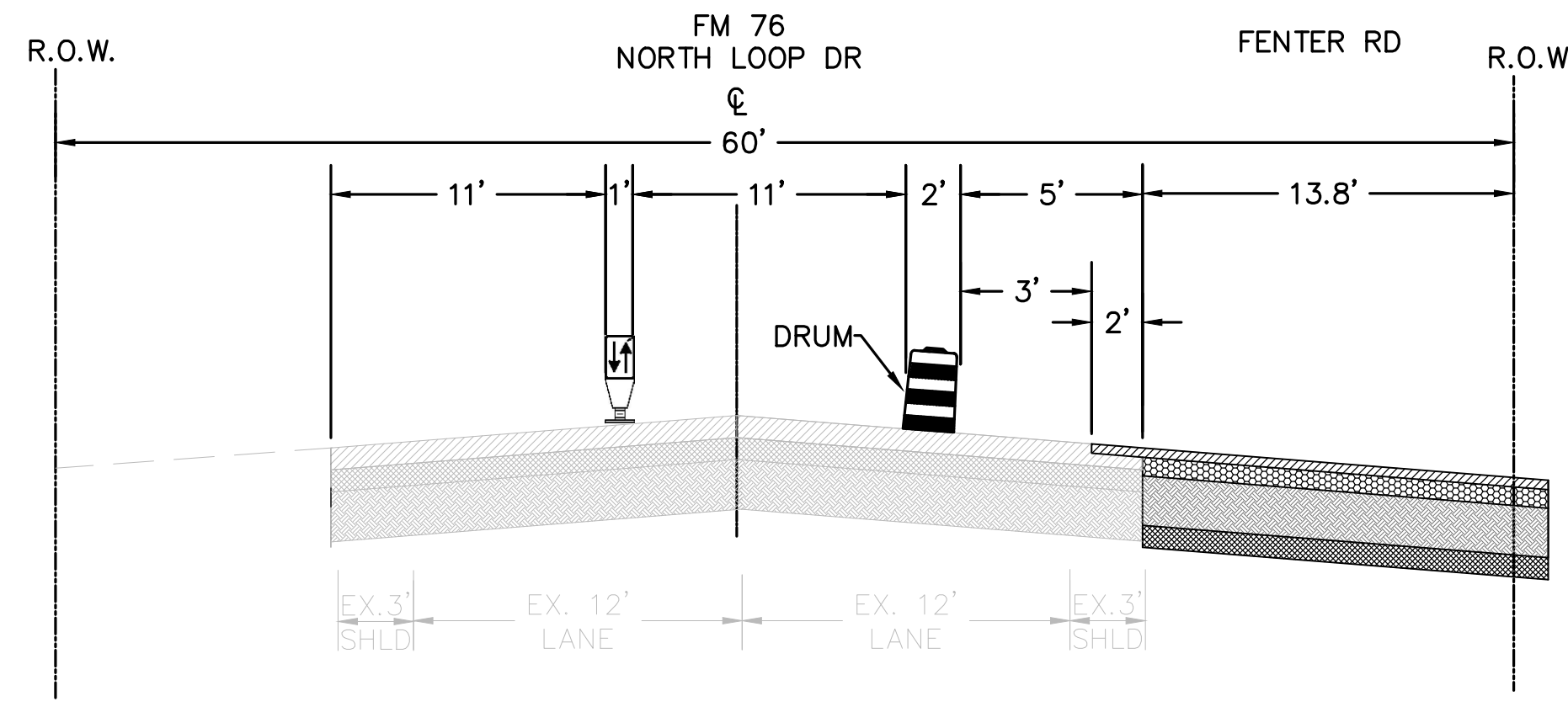
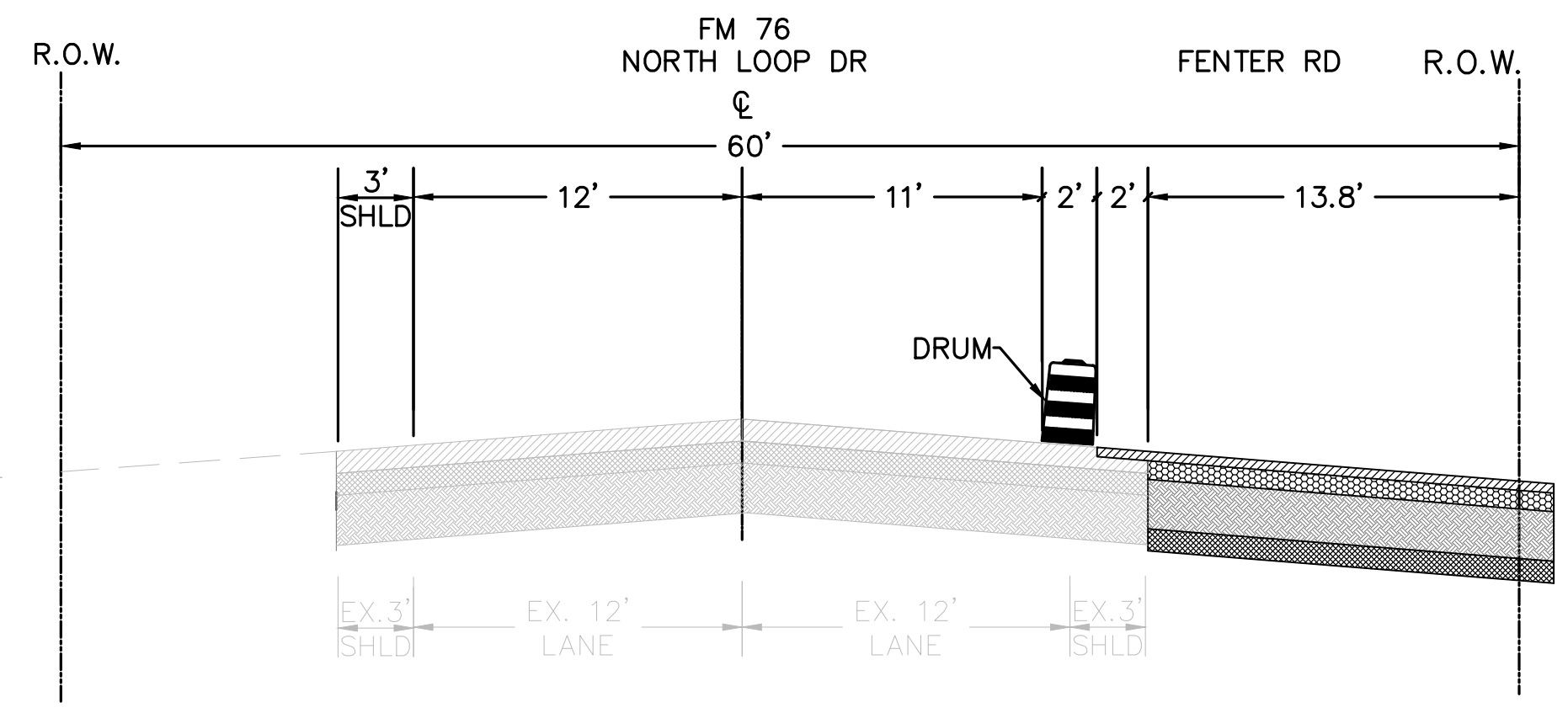
HORIZONTAL & VERTICAL CONTROL PLAN

Sheet reference number:
Sheet 03 of 30



NOTES

- REFER TO TXDOT BARRICADE AND CONSTRUCTION STANDARDS FOR X SPACING OF SIGN AND CHANNELIZING DEVICES
- CONTRACTOR TO AVOID DAMAGE TO PRIVATE PROPERTY DURING CONSTRUCTION. CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO PRIVATE PROPERTY.
- ALL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- ANY CONFLICTING SIGNS SHALL BE COVERED BY CONTRACTOR OR AS DIRECTED BY THE ENGINEER.
- PROVIDE VEHICULAR ACCESS AT ALL TIMES TO DRIVEWAYS, UNLESS OTHERWISE NOTED.
- WATER FILLED BARRIERS SHALL BE USED IN LIEU OF PLASTIC DRUMS INSIDE LATERAL BUFFER ZONES WHEN EXCAVATING OVER 24" AND/OR SLOPES CANNOT BE INSTALLED DUE TO FIELD CONDITIONS. WATER FILLED BARRIERS SHALL BE SUBSIDIARY TO THE TRAFFIC CONTROL ITEM 3.
- THE CONTRACTORS SHALL COORDINATE WITH PROPERTY OWNERS AFFECTED BY DRIVEWAY CLOSURES.
- TRAFFIC CONTROL USING TXDOT STANDARD TCP (2-3)-23 (2-3a) AND DETAIL B SHALL ONLY BE ALLOWED WHEN WORKING AT THE FENTER RD AND FM 76 INTERSECTION. TXDOT STANDARD TCP (2-3)-23 (2-3a) AND DETAIL B SHALL ONLY BE ALLOWED FOR ONE DAY, WITH UP TO FOUR DAILY APPLICATIONS. TCP (2-1)-18 (2-1b) AND DETAIL A SHALL BE REINSTITATED AFTER WORK HOURS.
- SHADOW VEHICLE WITH TMA SHALL BE USED WHEN WORKERS ARE PRESENT AT THE FENTER RD AND FM 76 INTERSECTION, WHICH SHALL ONLY BE ALLOWED FOR ONE DAY, WITH UP TO FOUR DAILY APPLICATIONS. SHADOW VEHICLE WITH TMA SHALL BE SUBSIDIARY TO THE TRAFFIC CONTROL ITEM 3. IF WORKERS ARE NO LONGER PRESENT BUT ROAD OR WORK CONDITIONS REQUIRE THE TRAFFIC CONTROL TO REMAIN IN PLACE. TYPE 3 BARRICADES MAY BE SUBSTITUTED FOR THE SHADOW VEHICLE AND TMA.
- ALLOWED WORKING HOURS IN THE VICINITY OF TXDOT ROW ARE FROM 9 AM TO 4 PM, MONDAY THROUGH FRIDAY.



Huitt-Zollars, Inc.
Firm Registration No. F-761

Rev.	Date	Description

Designed by: R. BELTRAN
Dwn by: R. BELTRAN
Cld by: A. GALLEGOS
Reviewed by: R. MEDINA

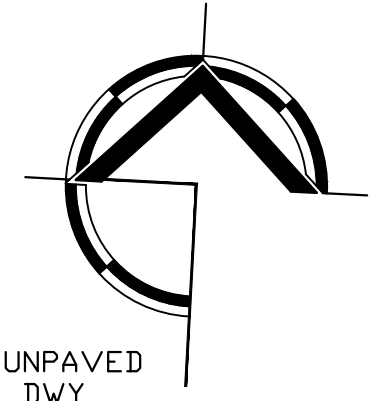
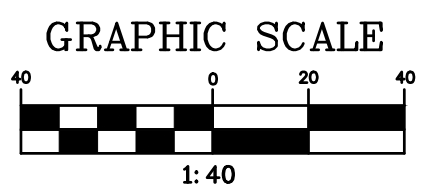
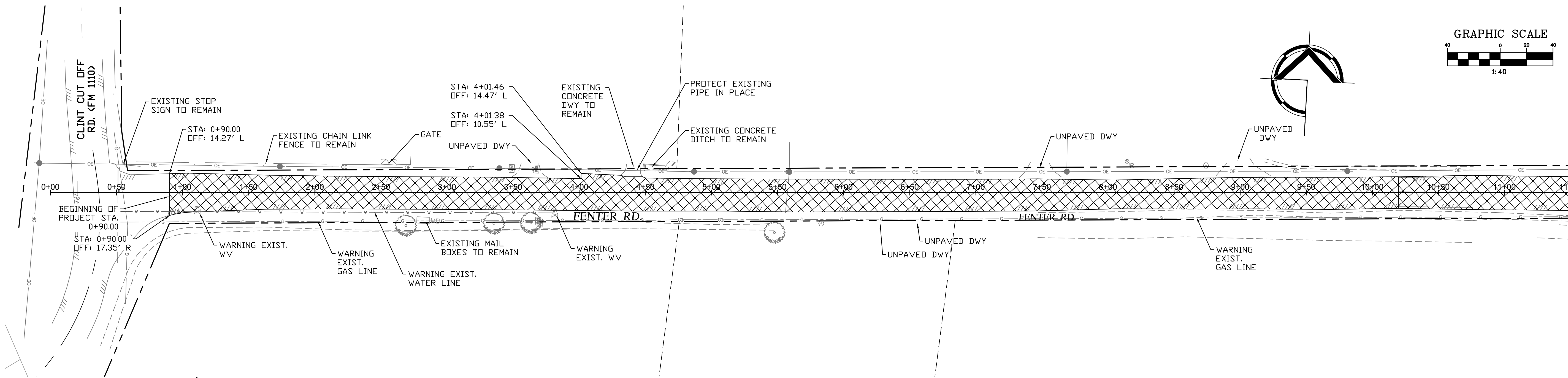
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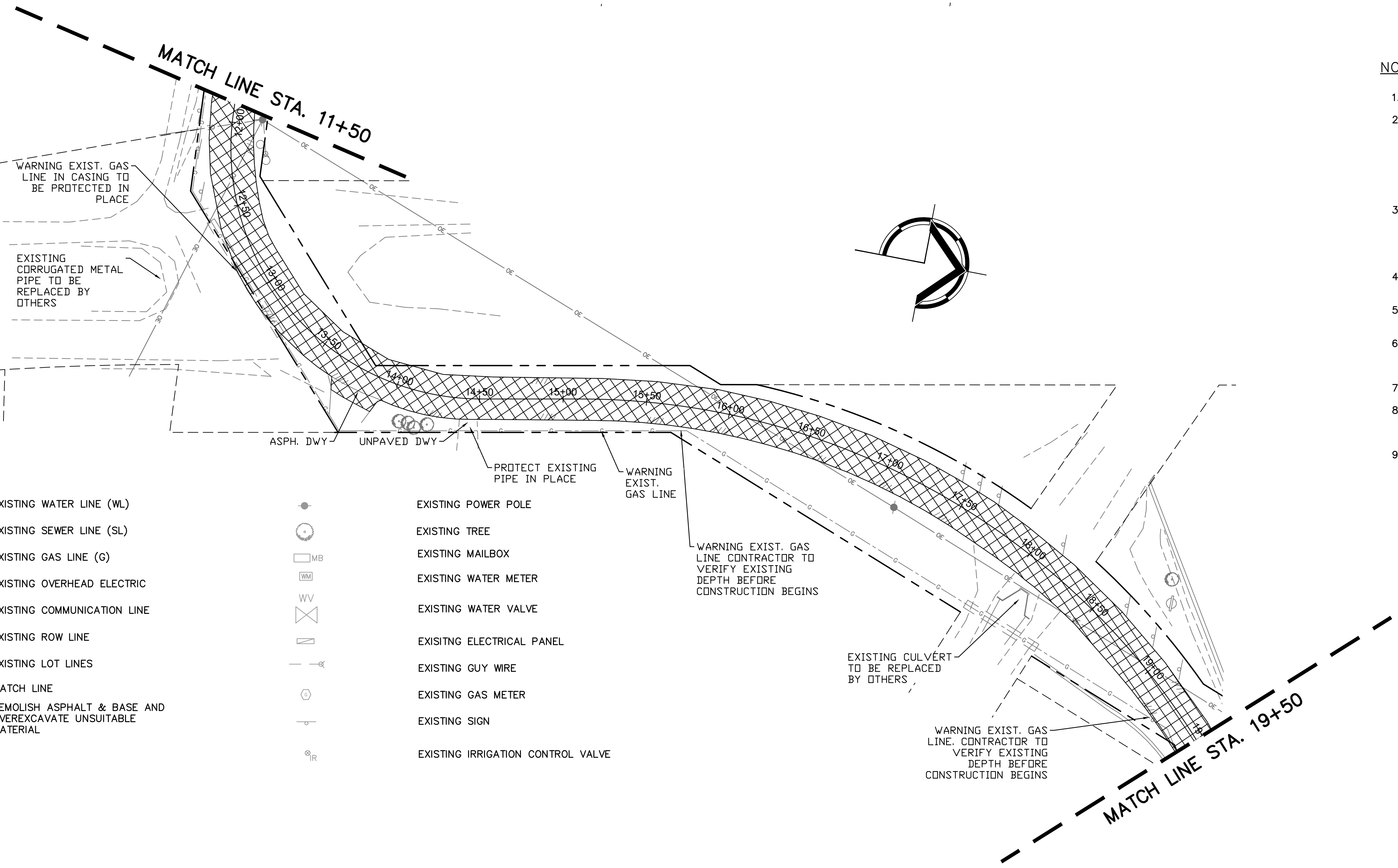
WARNING!
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EL PASO NATURAL GAS	1-800-334-8047
A T & T	1-800-924-9420
EL PASO ELECTRIC COMPANY	1-800-252-1133
SPECTRUM TEXAS 811	1-915-772-1123
	1-811



MATCH LINE STA. 11+50



NOTES:

1. ALL SAWCUTS NECESSARY FOR REMOVAL OF EXISTING MATERIAL WILL BE SUBSIDIARY TO REMOVAL ITEMS.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WHETHER INDICATED ON THE DRAWINGS OR NOT, TO VERIFY THE LOCATION, DEPTH, AND CONDITION OF ALL EXISTING UTILITIES AND SUBSTRUCTURES BEFORE CONSTRUCTION BEGINS, AND PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL CONTACT ALL THE UTILITY COMPANIES AND CONDUCT ALL NECESSARY FIELD INVESTIGATIONS/POTHOLING PRIOR TO ANY EXCAVATION.
3. AN ADDITIONAL 2 FOOT LENGTH OF THE ASPHALT LAYER SHALL EXTEND BEYOND THE PAVEMENT RECONSTRUCTION LIMITS AND WILL BE REPLACED AS NOTED IN THE PAVEMENT JUNCTION DETAIL IN THE CIVIL DETAILS SHEET. THIS WORK IS SUBSIDIARY TO THE ASPHALT REMOVAL AND INSTALLATION ITEMS 4 AND 11.
4. THE CONTRACTOR SHALL PROVIDE THE UTILITY OWNER WITH REASONABLE ADVANCE NOTICE TO PERFORM THE REQUIRED ADJUSTMENTS AND RELOCATIONS.
5. THE CONTRACTOR SHALL INFORM TEXAS GAS OF REQUIRED UTILITY ADJUSTMENTS OR RELOCATIONS AT LEAST 30 DAYS IN ADVANCE OF PLANNED CONSTRUCTION.
6. CONTRACTOR TO COORDINATE WITH EL PASO COUNTY WATER IMPROVEMENT DISTRICT NO.1 FOR REMOVAL AND CONSTRUCTION OF CULVERTS AT THE MESA DRAIN AND SALITRAL LATERAL.
7. REFER TO THE SIGNING AND STRIPING SHEETS FOR THE REMOVAL OF SIGNS.
8. CONTRACTOR SHALL COORDINATE WITH EL PASO ELECTRIC AT LEAST TWO WEEKS IN ADVANCE OF PLANNED CONSTRUCTION NEAR POWER POLES TO BE ADJUSTED OR REPLACED.
9. WATER AND SEWER LINES INSTALLED IN 2023 BY LVWD ARE NOT REFLECTED IN THIS SHEET OR ENGINEERING PLANS.

LEGEND:

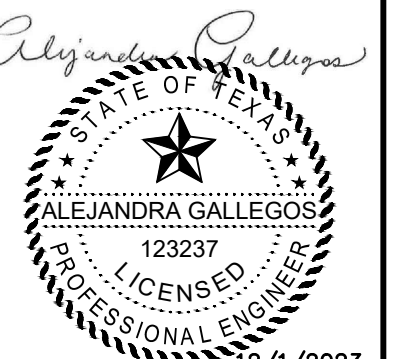
— W — W —	EXISTING WATER LINE (WL)	●	EXISTING POWER POLE
— S — S —	EXISTING SEWER LINE (SL)	○	EXISTING TREE
— G — G —	EXISTING GAS LINE (G)	□ MB	EXISTING MAILBOX
— OE — OE —	EXISTING OVERHEAD ELECTRIC	WM	EXISTING WATER METER
— COMM — COMM —	EXISTING COMMUNICATION LINE	WV	EXISTING WATER VALVE
---	EXISTING ROW LINE	⊗	EXISTING ELECTRICAL PANEL
---	EXISTING LOT LINES	—	EXISTING GUY WIRE
---	MATCH LINE	○	EXISTING GAS METER
⊗	DEMOLISH ASPHALT & BASE AND OVEREXCAVATE UNSUITABLE MATERIAL	⊕	EXISTING SIGN
		⊕R	EXISTING IRRIGATION CONTROL VALVE

**WARNING !
BEFORE YOU DIG**

CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UNDERGROUND IMPROVEMENTS IN PROJECT AREA

UTILITY LOCATOR SERVICES

TOWN OF CLINT MAIN OFFICE	1-915-851-3146
LOWER VALLEY WATER DISTRICT	1-915-791-4480
TEXAS GAS SERVICE	1-800-700-2443
EL PASO NATURAL GAS	1-800-334-8047
A T & T	1-800-924-9420
EL PASO ELECTRIC COMPANY	1-800-252-1133
SPECTRUM	1-915-772-1123
TEXAS 811	1-811



Huitt-Zollars, Inc.
Firm Registration No. F-761

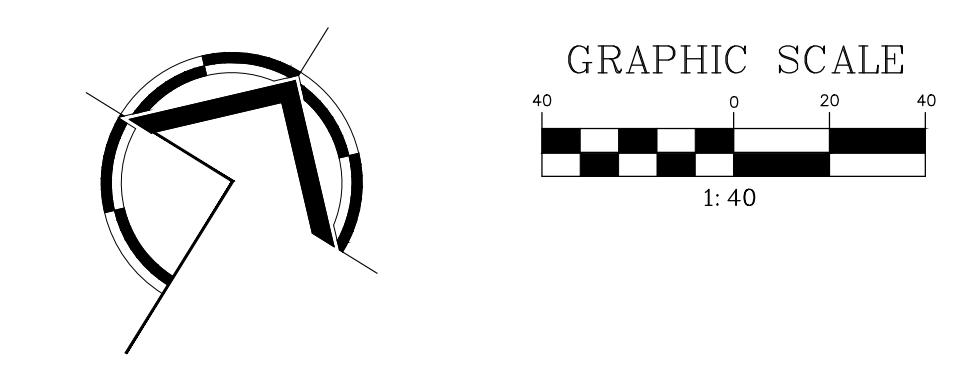
Date	Rev.	Description	P.D. NO.	Action	Date
03-10-2021					

Designed by: B. BELTRAN	Checked by: A. GALLEGOS	Drawn by: A. GALLEGOS	Reviewed by: R. MEDINA
TOWN OF CLINT TEXAS		TOWN OF CLINT TEXAS	
Lower Valley WATER DISTRICT		HUITT ZOLLARS	

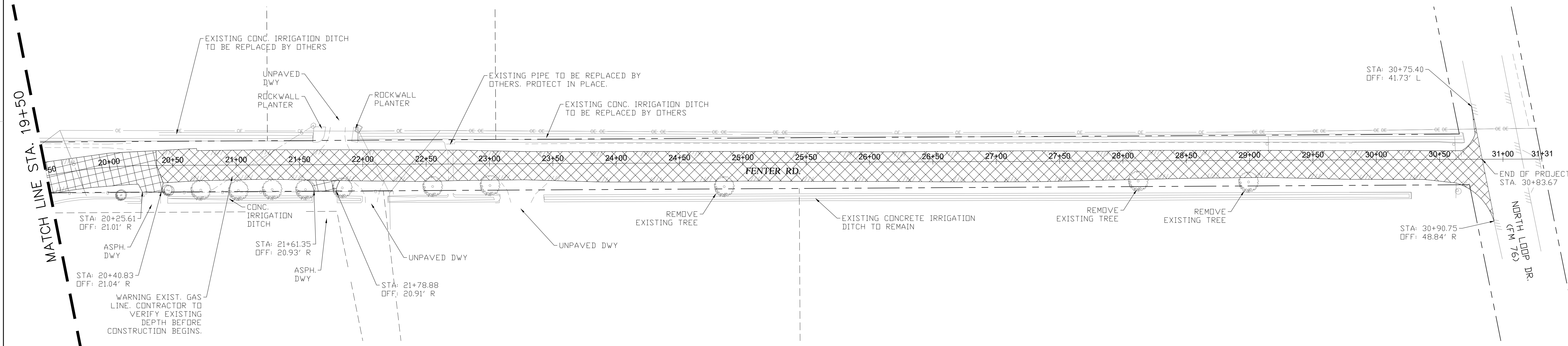
FENTER RD. RECONSTRUCTION TOWN OF CLINT, TEXAS
EXISTING CONDITIONS & DEMOLITION PLAN
STA. 0+00 TO STA. 19+50

HA:PROV:03063603 - FENTER RD. RECONSTRUCTION TO CADD & BUA:10.1 AUTOCAD SHEETS:07 63963603-EXTEND: LONG

HA:\PROJ\630638\3\3 - FENTER RD. RECONSTRUCTION TO CADD & BIDDING\10.1 AUTOCAD SHEETS\08 63063803-EXEMO 2.DWG



Huitt-Zollars, Inc.
Firm Registration No. F-761



LEGEND:

— W — W —	EXISTING WATER LINE (WL)	●	EXISTING POWER POLE
— S — S —	EXISTING SEWER LINE (SL)	○	EXISTING TREE
— G — G —	EXISTING GAS LINE (G)	□ MB	EXISTING MAILBOX
— OE — OE —	EXISTING OVERHEAD ELECTRIC	WM	EXISTING WATER METER
— COMM — COMM —	EXISTING COMMUNICATION LINE	WV	EXISTING WATER VALVE
---	EXISTING ROW LINE	⊠	EXISTING ELECTRICAL PANEL
---	EXISTING LOT LINES	— A —	EXISTING GUY WIRE
- - - - -	MATCH LINE	⊙	EXISTING GAS METER
▨	DEMOLISH ASPHALT & BASE AND OVEREXCAVATE UNSUITABLE MATERIAL	⊖	EXISTING SIGN
		⊕ R	EXISTING IRRIGATION CONTROL VALVE

NOTES:

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**WARNING !
BEFORE YOU DIG**
CONTRACTOR SHALL
FIELD LOCATE ALL EXISTING
UNDERGROUND IMPROVEMENTS
IN PROJECT AREA

UTILITY LOCATOR SERVICES	
TOWN OF CLINT MAIN OFFICE	1-915-851-3146
LOWER VALLEY WATER DISTRICT	1-915-791-4480
TEXAS GAS SERVICE	1-800-700-2443
EL PASO NATURAL GAS	1-800-334-8047
A T & T	1-800-924-9420
EL PASO ELECTRIC COMPANY	1-800-252-1133
SPECTRUM	1-915-772-1123
TEXAS 811	1-811

Rev.	Date	Design	File no.	Work	Description	D.D. NO.	Action	Date

Designed by:	B. BELTRAN	Checked by:	A. GALLEGOS
Reviewed by:	R. MEDINA	Drawing code:	EL PASO COUNTY WATER IMPROVEMENT DISTRICT NO. 1
Date:	03-10-2021	Plot scale:	1:1

TOWN OF
CLINT TEXAS

Lower Valley
WATER DISTRICT

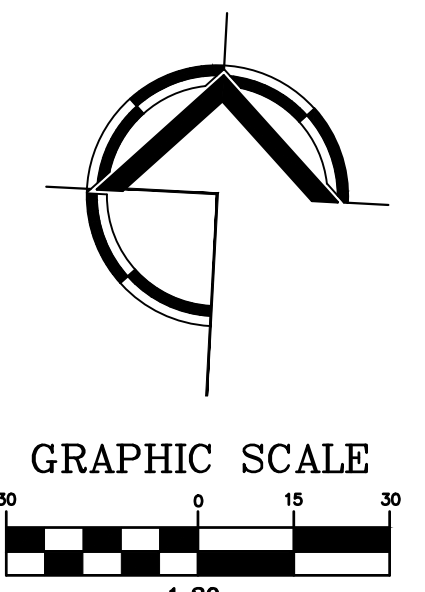
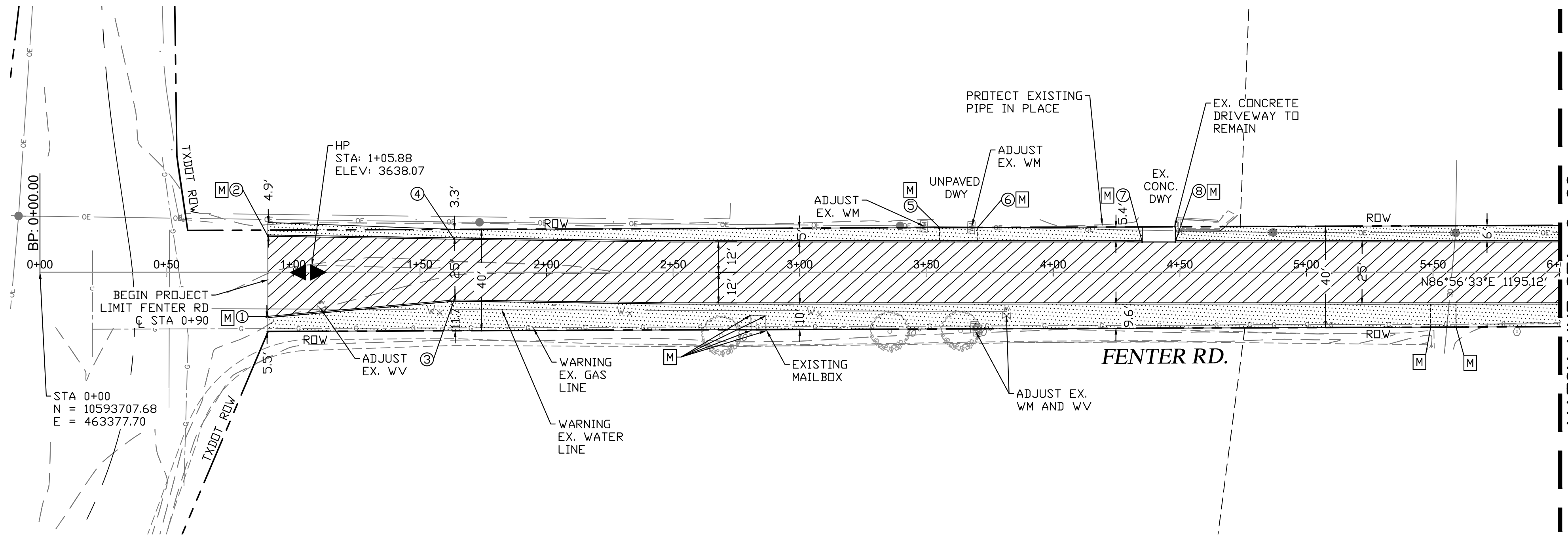
HUITT
ZOLLARS

6107 Cross Timbers Blvd. #10
El Paso, Texas 79912-5822
915.897.0299
www.huittzollars.com

FENTER RD. RECONSTRUCTION
TOWN OF CLINT, TEXAS
EXISTING CONDITIONS & DEMOLITION PLAN
STA. 19+50 TO END

Sheet
reference
number:

Sheet 06 of 29



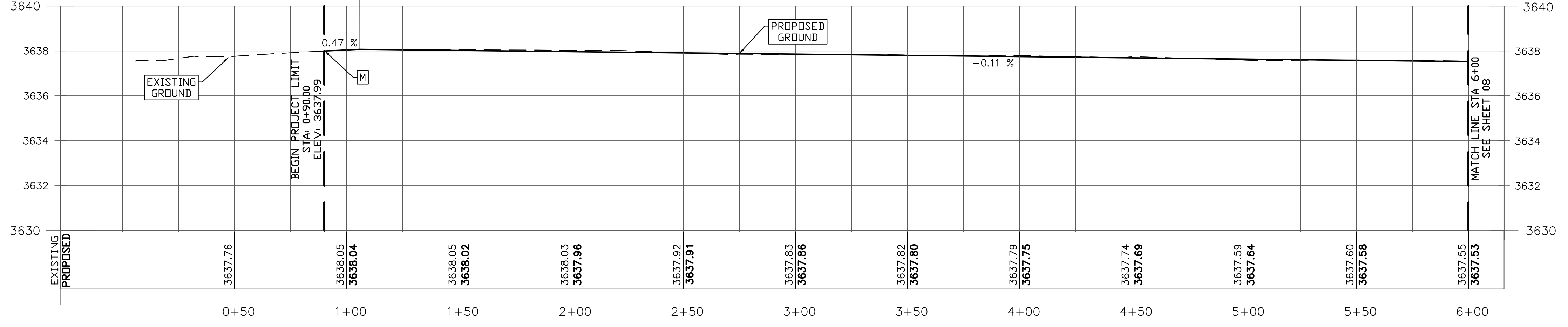
LEGEND:

— Wx —	EXISTING WATER LINE
— G —	EXISTING GAS LINE
— OE —	EXISTING OVERHEAD ELECTRIC
— UT —	EXISTING COMMUNICATION LINE
---	EXISTING ROW LINE
---	EXISTING LOT LINES
- - - -	MATCH LINE
	PROPOSED HEADER CURB
	PROPOSED PAVEMENT
	PROPOSED PARKWAY REGRADE
	PROPOSED ASPHALT DRIVEWAY
	PROPOSED UNPAVED DRIVEWAY
	HIGH POINT (HP)
	LOW POINT (LP)
	EXISTING POWER POLE
	EXISTING TREE
	EXISTING MAILBOX
	EXISTING WATER METER (WM)
	EXISTING WATER VALVE (WV)
	EXISTING ELECTRIC PANEL
	EXISTING GAS METER
	EXISTING SIGN
	EXISTING ELECTRIC JUNCTION BOX
DWY	DRIVEWAY
ROW	APPROXIMATE RIGHT OF WAY LINE
M	MATCH EXISTING ELEVATION

Professional Engineer Seal for Alejandro Gallegos, State of Texas, License No. 123237, Commission Expires 12/1/2023. Firm: Huitt-Zollars, Inc., Firm Registration No. F-761.

Date	Rev.

FENTER RD. C. PROPOSED PROFILE



POINT #	NORTHING	EASTING	Elevation
1	10593695.16	463468.50	3638.13
2	10593726.73	463466.81	3637.62
3	10593705.52	463541.56	3637.95
4	10593729.50	463540.28	3637.70
5	10593744.27	463731.46	3637.13
6	10593745.13	463746.47	3637.15
7	-	-	M
8	-	-	M

--- EXISTING
 ——— PROPOSED
 HORIZONTAL SCALE : 1" = 30'
 VERTICAL SCALE : 1" = 3'
 DESIGN SPEED: 20 MPH

- NOTES:**
- CONTRACTOR SHALL PROVIDE ACCESS TO ADJACENT PROPERTIES AT ALL TIMES.
 - REFER TO SHEETS 13 TO 17 FOR CROSS SECTIONS AND DRIVEWAY PROFILES.
 - REFER TO SHEET 24 FOR TYPICAL ROADWAY SECTION.
 - CONTRACTOR TO VERTICALLY ADJUST ALL EXISTING UTILITY MANHOLES AND VALVES TO NEW ROADWAY GRADE.
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 - AN EXPANSION JOINT SHALL BE PROVIDED BETWEEN THE EXISTING CONCRETE DRIVEWAY AND THE PROPOSED HEADER CURB. THIS SHALL BE SUBSIDIARY TO ITEM 15.

WARNING ! BEFORE YOU DIG
 CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UNDERGROUND IMPROVEMENTS IN PROJECT AREA

UTILITY LOCATOR SERVICES

TOWN OF CLINT MAIN OFFICE	1-915-851-3146
LOWER VALLEY WATER DISTRICT	1-915-791-4480
TEXAS GAS SERVICE	1-800-700-2443
EL PASO NATURAL GAS	1-800-334-8047
A T & T	1-800-924-9420
EL PASO ELECTRIC COMPANY	1-800-252-1133
SPECTRUM	1-915-772-1123
TEXAS 811	1-811

Designed by:	Date:	Rev.:
Drawn by: L. MEDINA		
Checked by: A. GALLEGOS	Design file no.:	
Reviewed by: R. MEDINA	Drawing code:	

Lower Valley WATER DISTRICT | TOWN OF CLINT TEXAS | HUITT ZOLLARS

FENTER RD. RECONSTRUCTION TOWN OF CLINT, TEXAS

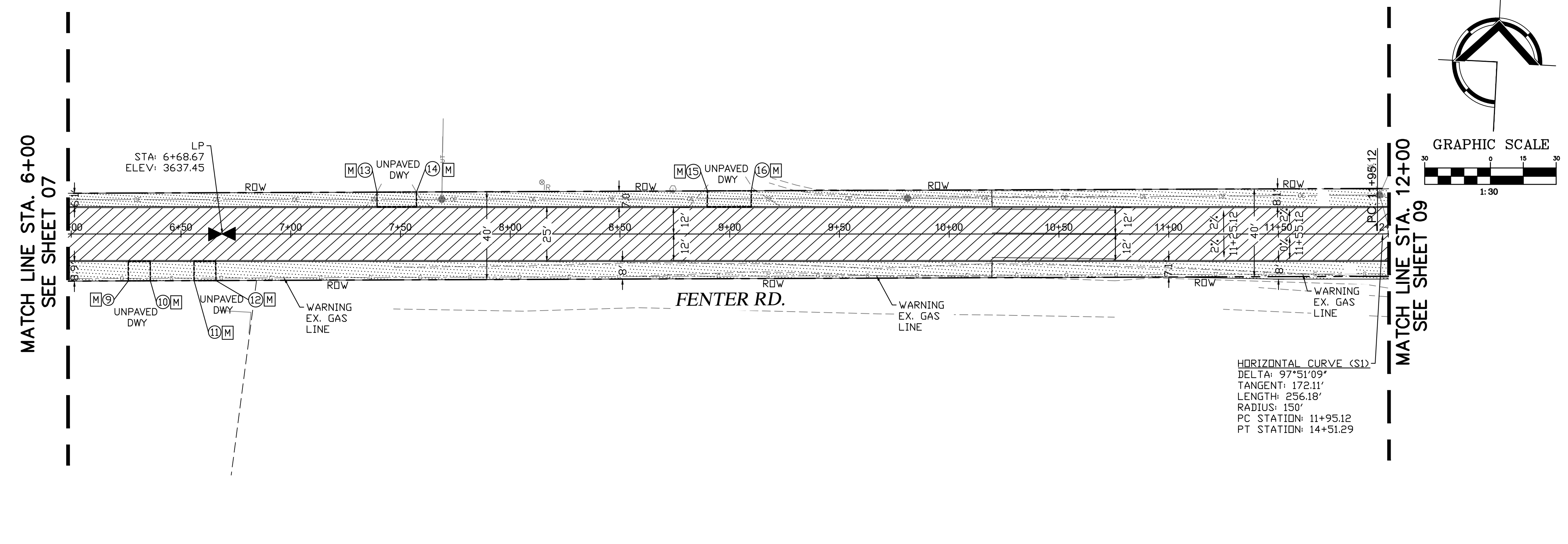
PLAN & PROFILE PLAN FROM STA 0+00 TO 6+00

Sheet reference number:
 Sheet 07 of 29

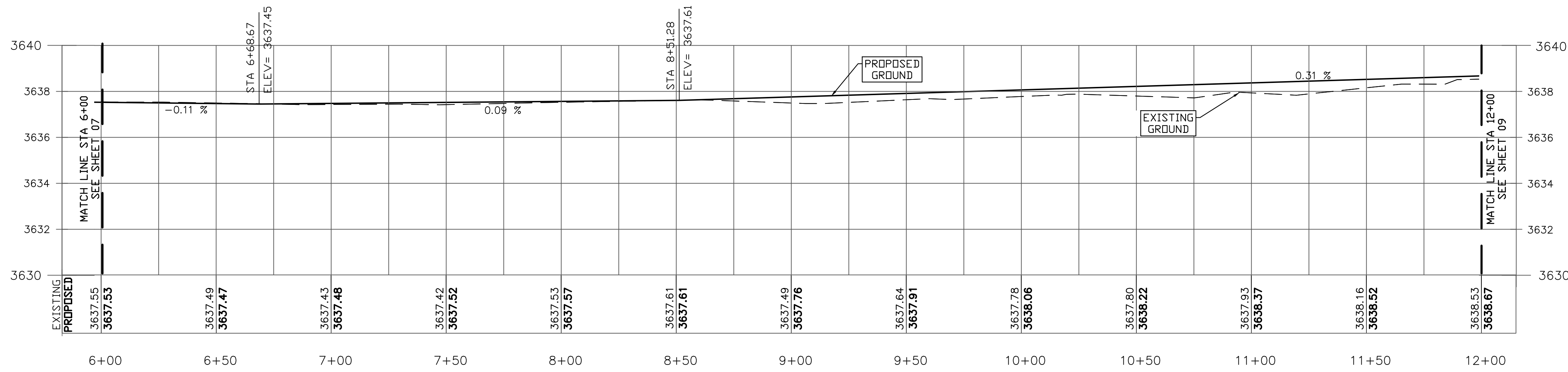
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MATCH LINE STA. 6+00
SEE SHEET 07

MATCH LINE STA. 12+00
SEE SHEET 09



FENTER RD \bar{C} PROPOSED PROFILE



----- EXISTING
——— PROPOSED

HORIZONTAL SCALE : 1" = 30'
VERTICAL SCALE : 1" = 3'

DESIGN SPEED: 20 MPH

POINT #	NORTHING	EASTING	Elevation
9	10593719.77	464003.98	3637.19
10	10593720.34	464013.96	3637.16
11	10593721.48	464033.86	3637.06
12	10593722.05	464043.85	3636.99
13	10593766.16	464114.94	3637.61
14	10593767.18	464132.88	3637.75
15	10593774.74	464265.32	3637.53
16	10593775.88	464285.17	3637.27

LEGEND:

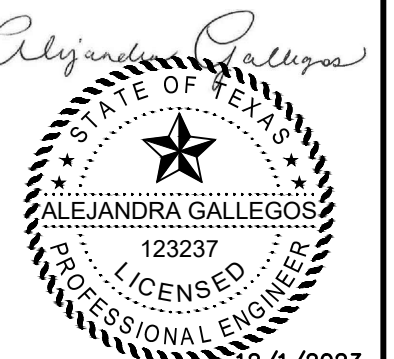
- Wx EXISTING WATER LINE
- G EXISTING GAS LINE
- OE EXISTING OVERHEAD ELECTRIC
- UT EXISTING COMMUNICATION LINE
- - - EXISTING ROW LINE
- - - EXISTING LOT LINES
- - - MATCH LINE
- [Pattern] PROPOSED HEADER CURB
- [Pattern] PROPOSED PAVEMENT
- [Pattern] PROPOSED PARKWAY REGRADE
- [Pattern] PROPOSED ASPHALT DRIVEWAY
- [Pattern] PROPOSED UNPAVED DRIVEWAY
- ◄▲ HIGH POINT (HP)
- ▼► LOW POINT (LP)
- [Symbol] EXISTING POWER POLE
- [Symbol] EXISTING TREE
- [Symbol] EXISTING MAILBOX
- [Symbol] EXISTING WATER METER (WM)
- [Symbol] EXISTING WATER VALVE (WV)
- [Symbol] EXISTING ELECTRIC PANEL
- [Symbol] EXISTING GAS METER
- [Symbol] EXISTING SIGN
- [Symbol] EXISTING ELECTRIC JUNCTION BOX
- [Symbol] DRIVEWAY
- - - APPROXIMATE RIGHT OF WAY LINE
- [Symbol] MATCH EXISTING ELEVATION

NOTES:

1. CONTRACTOR SHALL PROVIDE ACCESS TO ADJACENT PROPERTIES AT ALL TIMES.
2. REFER TO SHEETS 13 TO 17 FOR CROSS SECTIONS AND DRIVEWAY PROFILES.
3. REFER TO SHEET 24 FOR TYPICAL ROADWAY SECTION.
4. CONTRACTOR TO VERTICALLY ADJUST ALL EXISTING UTILITY MANHOLES AND VALVES TO NEW ROADWAY GRADE.
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WARNING ! BEFORE YOU DIG
CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UNDERGROUND IMPROVEMENTS IN PROJECT AREA

UTILITY LOCATOR SERVICES	
TOWN OF CLINT MAIN OFFICE	1-915-851-3146
LOWER VALLEY WATER DISTRICT	1-915-791-4480
TEXAS GAS SERVICE	1-800-700-2443
EL PASO NATURAL GAS	1-800-334-8047
A T & T	1-800-924-9420
EL PASO ELECTRIC COMPANY	1-800-252-1133
SPECTRUM	1-915-772-1123
TEXAS 811	1-811



Huitt-Zollars, Inc.
Firm Registration No. F-761

No.	Date	Rev.	Description

Designed by: [Signature]	Checked by: A. GALLEGOS
Drawn by: E. WILDEZ	Reviewed by: R. MEDINA

Date: [Blank] Design file no.: [Blank] Drawing code: [Blank]

The name of the project is: FENTER RD. PROJECT Date of issue: 08/28/2023 Plot scale: 1:1

LOWER VALLEY WATER DISTRICT

TOWN OF CLINT TEXAS

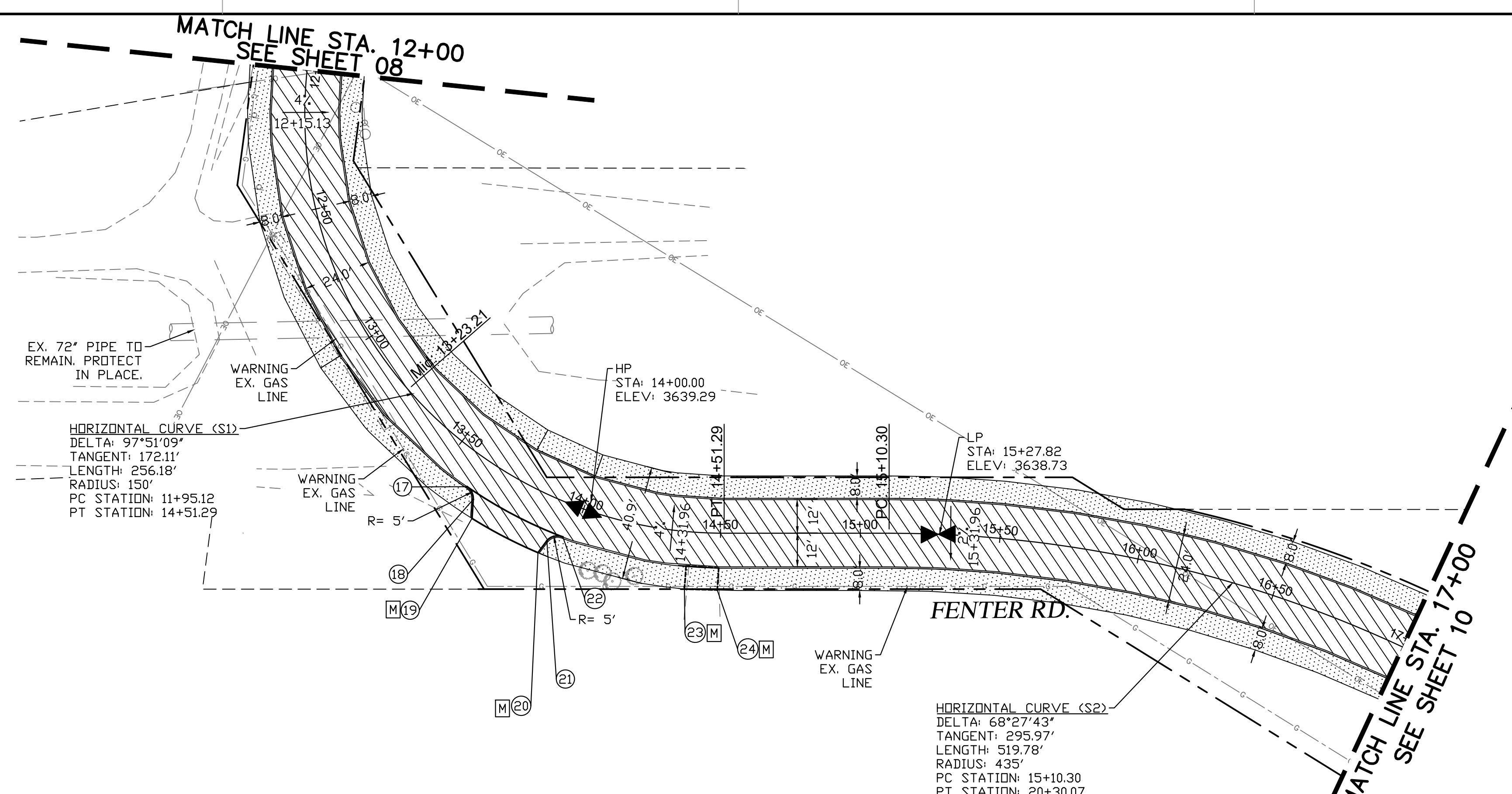
HUITT ZOLLARS

6807 Creekside Park, Suite 300
Bldg. 1500, Dallas, Texas 75249-5922
972.559.8399
www.huitt-zollars.com

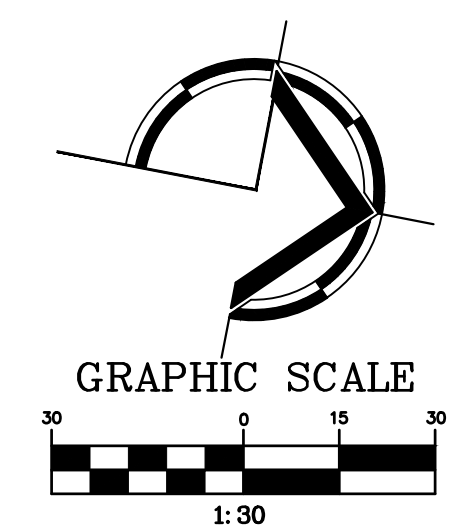
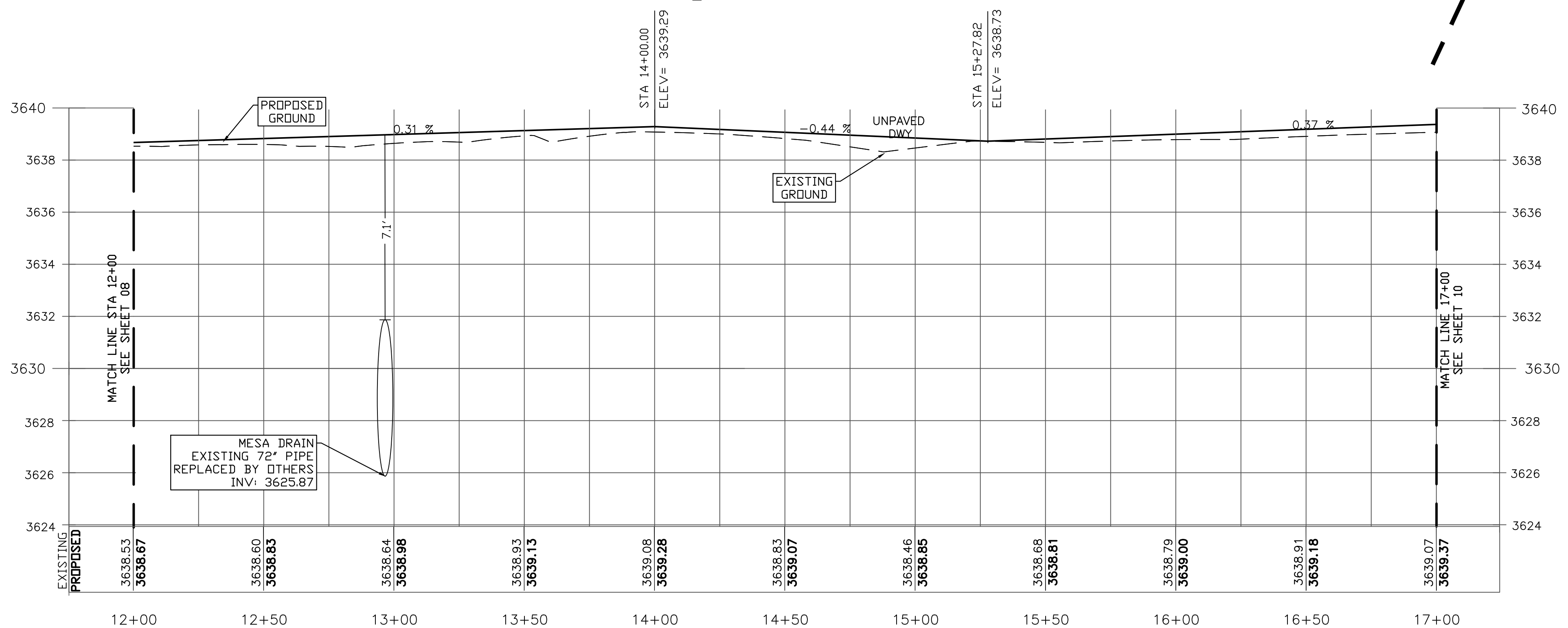
FENTER RD. RECONSTRUCTION
TOWN OF CLINT, TEXAS

FENTER RD. WEST SEGMENT
PLAN & PROFILE PLAN
FROM STA 6+00 TO 12+00

Sheet reference number:
Sheet 8 of 29



FENTER RD ϕ PROPOSED PROFILE



POINT TABLE			
POINT #	NORTHING	EASTING	Elevation
17	10593856.15	464711.47	3639.60
18	10593859.16	464715.52	3639.40
19	10593860.01	464722.25	3639.15
20	10593885.53	464729.84	3639.00
21	10593887.84	464725.06	3639.32
22	10593893.18	464722.66	3639.73
23	10593939.44	464732.73	3638.74
24	10593951.00	464730.82	3638.42

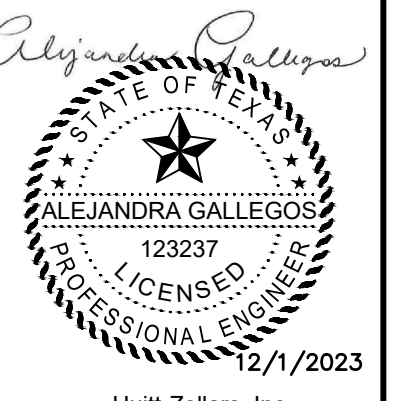
- LEGEND:**
- Wx EXISTING WATER LINE
 - G EXISTING GAS LINE
 - OE EXISTING OVERHEAD ELECTRIC
 - UT EXISTING COMMUNICATION LINE
 - EXISTING ROW LINE
 - EXISTING LOT LINES
 - MATCH LINE
 - [Hatched Box] PROPOSED HEADER CURB
 - [Dotted Box] PROPOSED PAVEMENT
 - [Cross-hatched Box] PROPOSED PARKWAY REGRADE
 - [Diagonal Hatched Box] PROPOSED ASPHALT DRIVEWAY
 - [Stippled Box] PROPOSED UNPAVED DRIVEWAY
 - HP HIGH POINT (HP)
 - LP LOW POINT (LP)
 - EXISTING POWER POLE
 - EXISTING TREE
 - MB EXISTING MAILBOX
 - WM EXISTING WATER METER (WM)
 - WV EXISTING WATER VALVE (WV)
 - EP EXISTING ELECTRIC PANEL
 - GM EXISTING GAS METER
 - ES EXISTING SIGN
 - EJB EXISTING ELECTRIC JUNCTION BOX
 - DWY DRIVEWAY
 - ROW APPROXIMATE RIGHT OF WAY LINE
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LOWER VALLEY WATER DISTRICT	1-915-791-4480
TEXAS GAS SERVICE	1-800-700-2443
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SPECTRUM	1-915-772-1123
TEXAS 811	1-811



12/1/2023
 Huitt-Zollars, Inc.
 Firm Registration No. F-761

No.	Description	Date	Action

Date	Rev.	Design file no.	Drawing code

TOWN OF CLINT TEXAS

DESIGNED BY: A. GALLEGOS
 DRAWN BY: E. VADEZ
 CHECKED BY: A. GALLEGOS
 REVIEWED BY: R. MEDINA

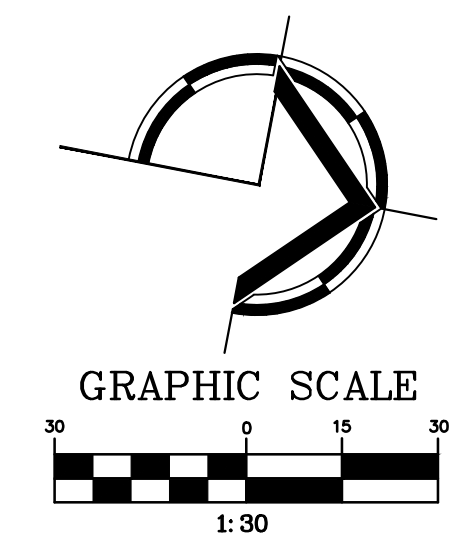
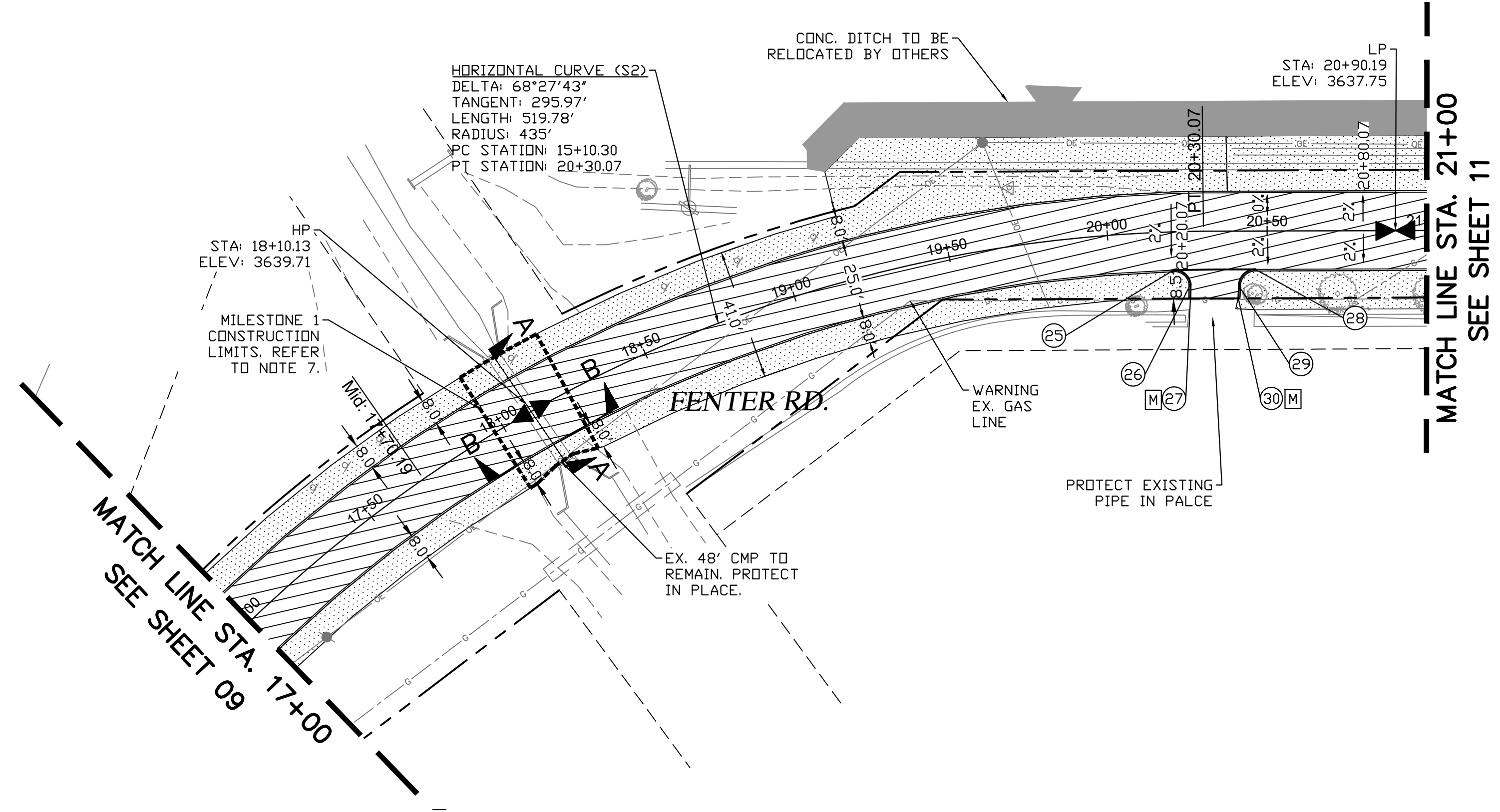
PROJECT NO.: 2023-011
 SHEET NO.: 09
 DATE: 12/1/2023

FENTER RD. RECONSTRUCTION
 TOWN OF CLINT, TEXAS

FENTER RD. WEST SEGMENT
 PLAN & PROFILE PLAN
 FROM STA 12+00 TO 17+00

NOTES:

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- CONTRACTOR SHALL BUILD SECTION FROM STA 17+97 TO STA 18+23 BY THE SET DATE FOR MILESTONE 1 IN THE PROJECT FRONT END DOCUMENTS. WORK TO BE COMPLETED BY THIS DATE INCLUDES DEMOLITION, EXCAVATION, PLACEMENT OF 2-SACK FOR PAVEMENT STRUCTURE, HEADER CURB AND PARKWAY GRADING. HMAC SHALL BE PLACED WHEN WEATHER IS OPTIMAL AS DESCRIBED IN THE PROJECT SPECIFICATIONS. IF PLACEMENT OF HMAC WILL EXCEED TWO CALENDAR DAYS FROM PLACEMENT OF BASE COURSE, PRIME COAT SHALL BE APPLIED FOR MOISTURE RETENTION AND DENSITY TESTS SHALL BE CONDUCTED AGAIN TO VERIFY PROPER COMPACTION BEFORE ASPHALT PLACEMENT.



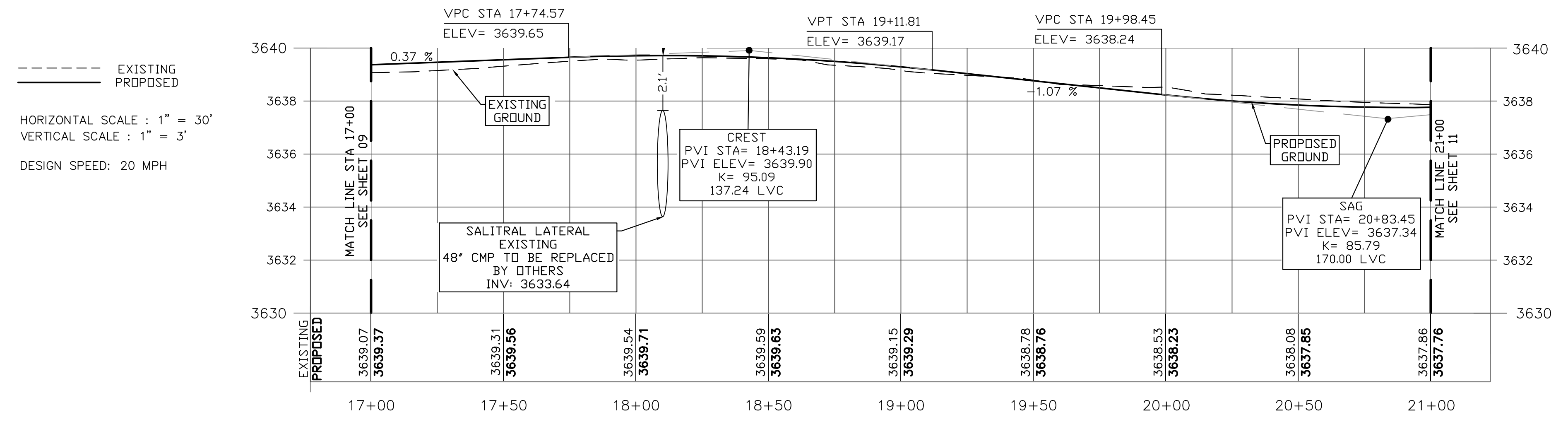
LEGEND:

Wx	EXISTING WATER LINE
G	EXISTING GAS LINE
OE	EXISTING OVERHEAD ELECTRIC
UT	EXISTING COMMUNICATION LINE
---	EXISTING ROW LINE
- - -	EXISTING LOT LINES
- · - · -	MATCH LINE
[Pattern]	PROPOSED HEADER CURB
[Pattern]	PROPOSED PAVEMENT
[Pattern]	PROPOSED PARKWAY REGRADE
[Pattern]	PROPOSED ASPHALT DRIVEWAY
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[Symbol]	EXISTING WATER METER (WM)
[Symbol]	EXISTING WATER VALVE (WV)
[Symbol]	EXISTING ELECTRIC PANEL
[Symbol]	EXISTING GAS METER
[Symbol]	EXISTING SIGN
[Symbol]	EXISTING ELECTRIC JUNCTION BOX
[Symbol]	DRIVEWAY
[Symbol]	APPROXIMATE RIGHT OF WAY LINE
[Symbol]	MATCH EXISTING ELEVATION

Alejandra Gallegos
 STATE OF TEXAS
 ALEJANDRA GALLEGOS
 123237
 LICENSED PROFESSIONAL ENGINEER
 12/1/2023
 Huitt-Zollars, Inc.
 Firm Registration No. F-761

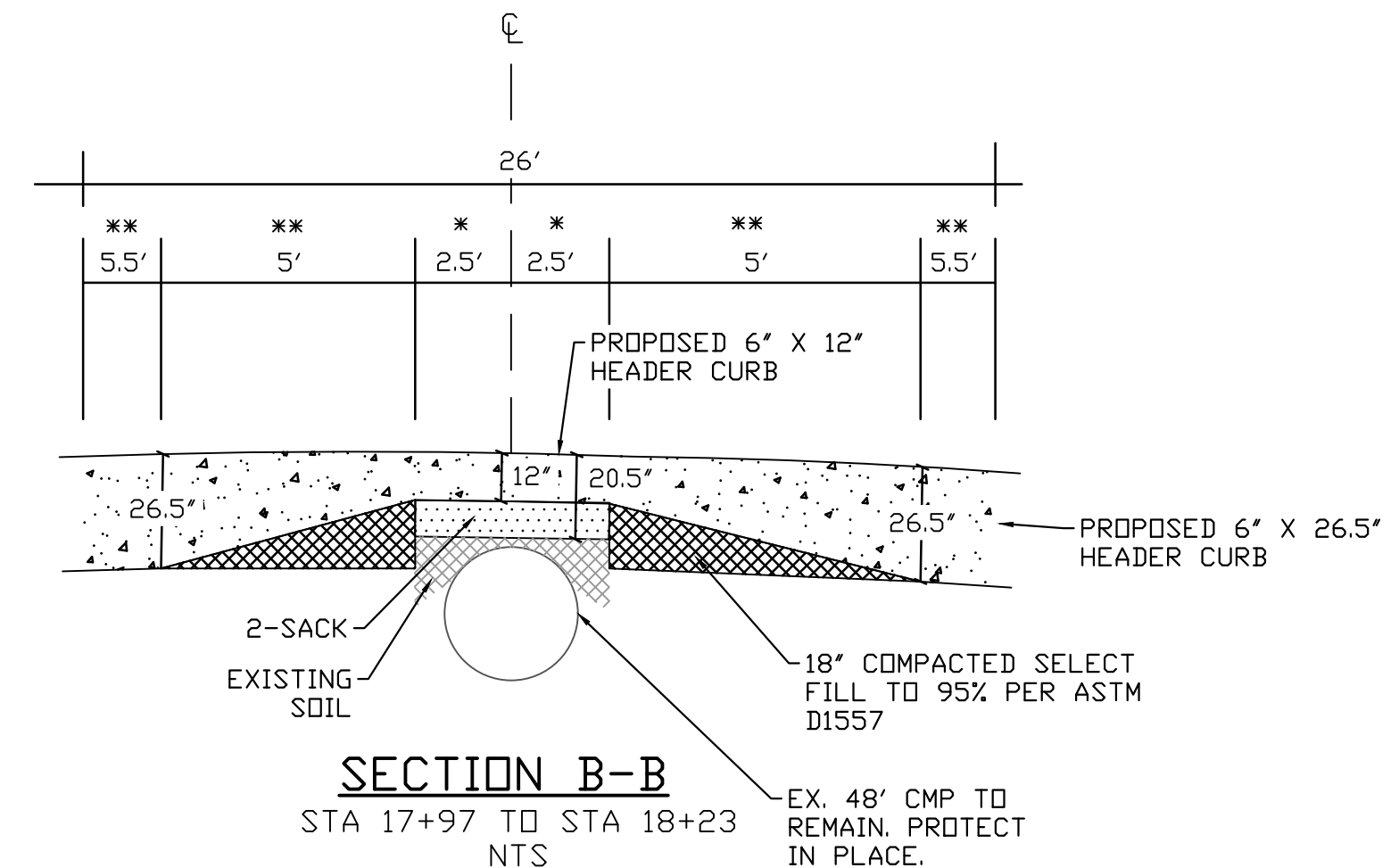
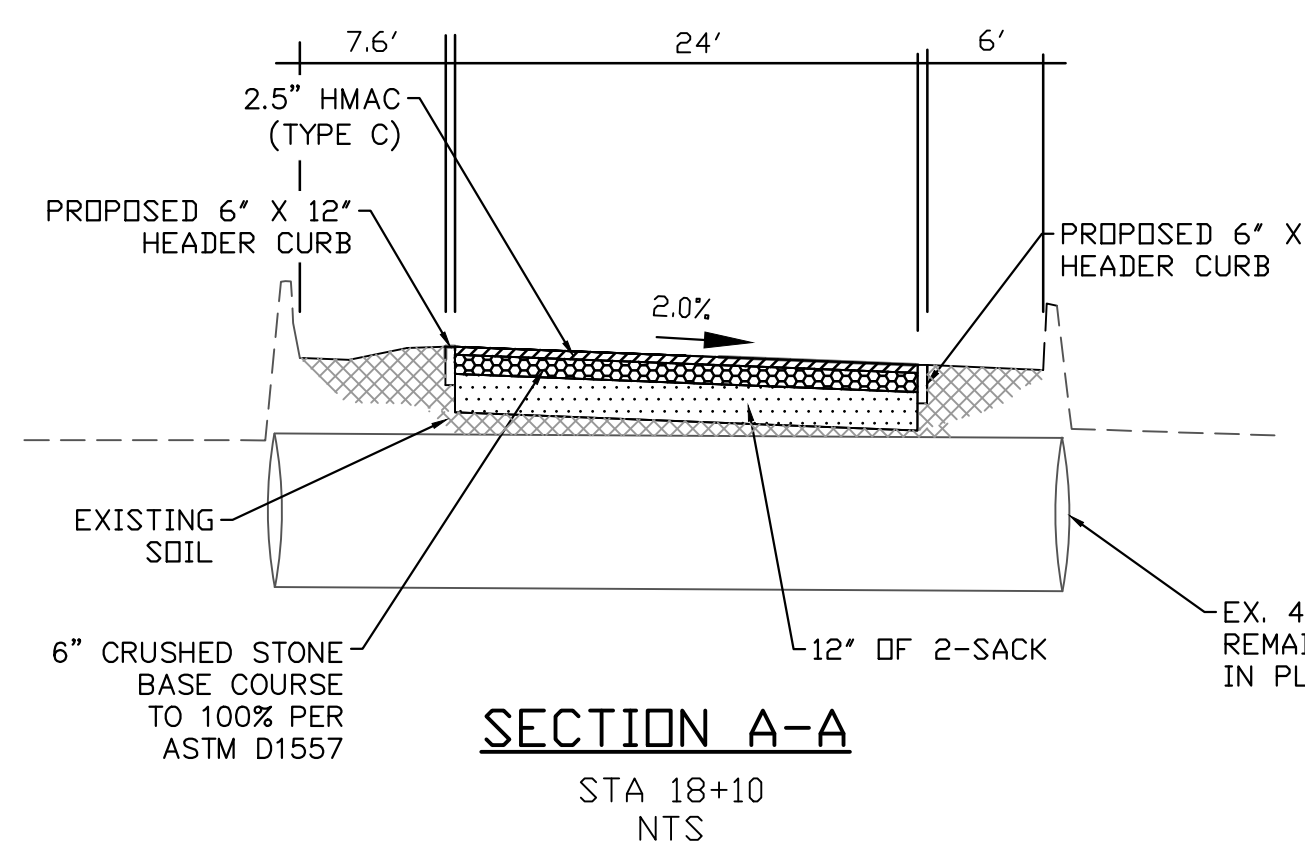
Date	Rev.	Design file no.	Description

FENTER RD C PROPOSED PROFILE



POINT TABLE

POINT #	NORTHING	EASTING	Elevation
25	10594441.68	464891.52	3637.80
26	10594440.76	464898.39	3637.53
27	10594436.93	464900.70	3637.37
28	10594455.40	464913.07	3637.63
29	10594448.26	464911.51	3637.41
30	10594444.92	464913.39	3637.31



SECTION NOTES:

- * CONTRACTOR SHALL PLACE 12" OF 2-SACK BELOW BASE COURSE FOR A TOTAL 5' WIDTH, 2.5" TO EACH SIDE OF THE CULVERT FROM THE CENTERLINE. PAVEMENT STRUCTURE SHALL INCLUDE 2.5" OF HMAC, 6" OF CRUSHED STONE BASE COURSE, AND 12" OF 2-SACK AS SHOWN IN SECTION A-A IN THIS SHEET. PRIOR TO PLACEMENT OF 2-SACK, REMOVE LOOSE DEBRIS. DO NOT USE MECHANICAL COMPACTION DEVICES DIRECTLY OVER EXISTING PIPE.
- ** PAVEMENT STRUCTURE SHALL INCLUDE 2.5" OF HMAC, 6" OF CRUSHED STONE BASE COURSE, 18" OF COMPACTED SELECT FILL, AND 8" OF COMPACTED SUBGRADE AS SHOWN IN THE CIVIL DETAILS SHEET.

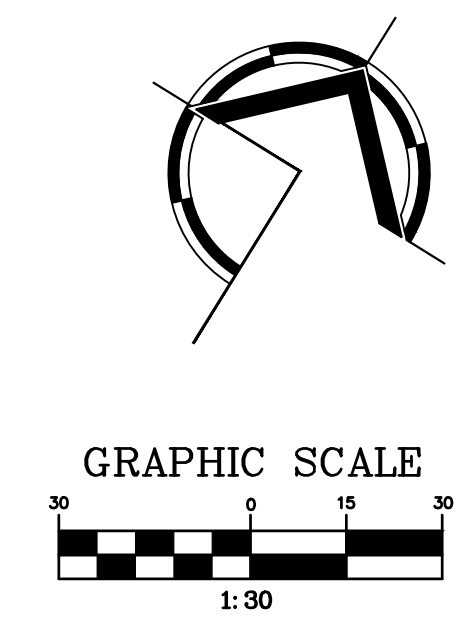
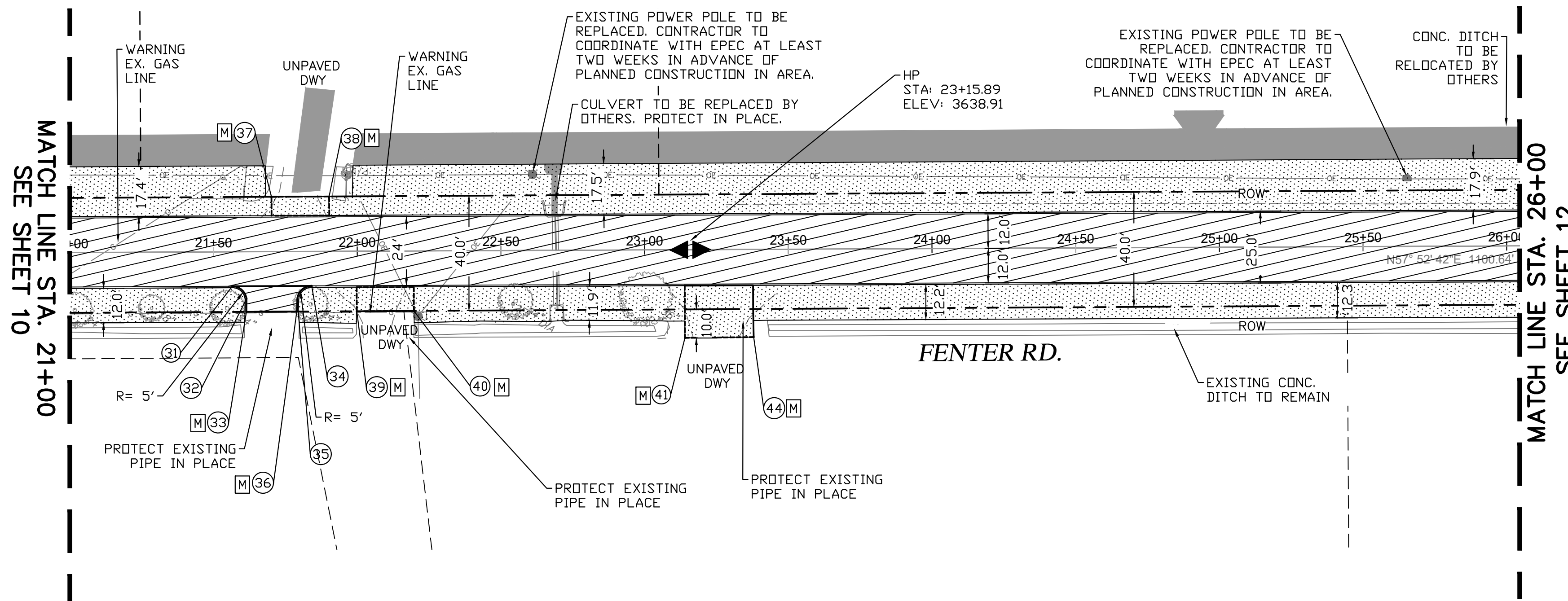
**WARNING !
BEFORE YOU DIG**
 CONTRACTOR SHALL
 FIELD LOCATE ALL EXISTING
 UNDERGROUND IMPROVEMENTS
 IN PROJECT AREA

UTILITY LOCATOR SERVICES

TOWN OF CLINT MAIN OFFICE	1-915-851-3146
LOWER VALLEY WATER DISTRICT	1-915-791-4480
TEXAS GAS SERVICE	1-800-700-2443
EL PASO NATURAL GAS	1-800-334-8047
A T & T	1-800-924-9420
EL PASO ELECTRIC COMPANY	1-800-252-1133
SPECTRUM	1-915-772-1123
TEXAS 811	1-811

TOWN OF CLINT TEXAS
 Lower Valley WATER DISTRICT
 HUITT ZOLLARS

FENTER RD. RECONSTRUCTION
 TOWN OF CLINT, TEXAS
 FENTER RD. WEST SEGMENT
 PLAN & PROFILE PLAN
 FROM STA 17+00 TO 21+00



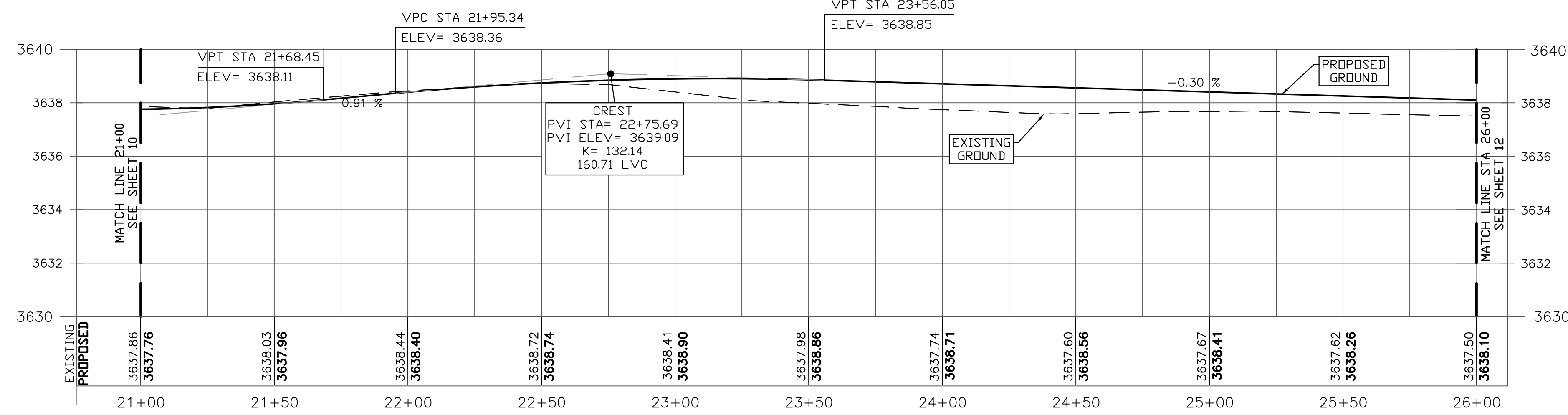
- LEGEND:**
- Wx ——— EXISTING WATER LINE
 - G ——— EXISTING GAS LINE
 - OE ——— EXISTING OVERHEAD ELECTRIC
 - UT ——— EXISTING COMMUNICATION LINE
 - — — EXISTING ROW LINE
 - - - - EXISTING LOT LINES
 - - - - MATCH LINE
 - [Hatched Box] PROPOSED HEADER CURB
 - [Dotted Box] PROPOSED PAVEMENT
 - [Cross-hatched Box] PROPOSED PARKWAY REGRADE
 - [Diagonal Hatched Box] PROPOSED ASPHALT DRIVEWAY
 - [Stippled Box] PROPOSED UNPAVED DRIVEWAY
 - ↔ HIGH POINT (HP)
 - ⊗ LOW POINT (LP)
 - EXISTING POWER POLE
 - EXISTING TREE
 - MB EXISTING MAILBOX
 - WM EXISTING WATER METER (WM)
 - WV EXISTING WATER VALVE (WV)
 - EP EXISTING ELECTRIC PANEL
 - GM EXISTING GAS METER
 - ES EXISTING SIGN
 - EJB EXISTING ELECTRIC JUNCTION BOX
 - DWY DRIVEWAY
 - ROW APPROXIMATE RIGHT OF WAY LINE
 - M MATCH EXISTING ELEVATION



Huitt-Zollars, Inc.
Firm Registration No. F-761

Mark	Description	D.D. No.	Action	Date

FENTER RD C PROPOSED PROFILE



--- EXISTING
— PROPOSED

HORIZONTAL SCALE : 1" = 30'
VERTICAL SCALE : 1" = 3'

DESIGN SPEED: 20 MPH

POINT TABLE			
POINT #	NORTHING	EASTING	Elevation
31	10594514.02	465006.44	3637.77
32	10594512.91	465012.95	3637.67
33	10594509.04	465015.29	3637.60
34	10594528.71	465029.83	3638.01
35	10594521.81	465028.19	3637.77
36	10594518.37	465030.13	3637.65
37	10594547.65	465001.56	3638.48
38	10594558.34	465018.54	3638.61
39	10594529.49	465047.81	3637.71
40	10594540.08	465064.63	3637.92
41	10594581.88	465149.67	3637.53
44	10594594.74	465169.87	3637.32

- NOTES:**
- CONTRACTOR SHALL PROVIDE ACCESS TO ADJACENT PROPERTIES AT ALL TIMES.
 - REFER TO SHEETS 13 TO 17 FOR CROSS SECTIONS AND DRIVEWAY PROFILES.
 - REFER TO SHEET 24 FOR TYPICAL ROADWAY SECTION.
 - CONTRACTOR TO VERTICALLY ADJUST ALL EXISTING UTILITY MANHOLES AND VALVES TO NEW ROADWAY GRADE.
 - AN ADDITIONAL 2 FOOT OF THE ASPHALT LAYER SHALL EXTEND BEYOND THE PAVEMENT RECONSTRUCTION LIMITS AND WILL BE REPLACED AS NOTED IN THE PAVEMENT JUNCTION DETAIL IN THE CIVIL DETAILS SHEET. THIS WORK IS SUBSIDIARY TO THE ASPHALT REMOVAL AND INSTALLATION ITEMS 4 AND 11.
 - AN EXPANSION JOINT SHALL BE PROVIDED BETWEEN THE EXISTING CONCRETE DRIVEWAY AND THE PROPOSED HEADER CURB. THIS SHALL BE SUBSIDIARY TO ITEM 15.

**WARNING !
BEFORE YOU DIG**

CONTRACTOR SHALL
FIELD LOCATE ALL EXISTING
UNDERGROUND IMPROVEMENTS
IN PROJECT AREA

UTILITY LOCATOR SERVICES

TOWN OF CLINT MAIN OFFICE	1-915-851-3146
LOWER VALLEY WATER DISTRICT	1-915-791-4480
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SPECTRUM	1-915-772-1123
TEXAS 811	1-811

Designed by:	Drawn by:	Checked by:	Date:	Rev.
A. GALLEGOS	E. MEDINA	A. GALLEGOS		

TOWN OF CLINT TEXAS

6807 Cross Fork Road, Box 910
El Paso, Texas 79912-9202
915.836.0339
www.clinttx.gov

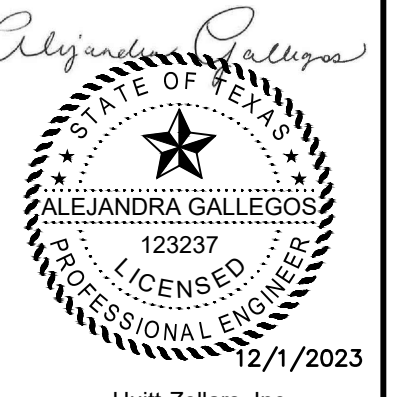
LOWER VALLEY WATER DISTRICT

HUITT ZOLLARS

FENTER RD. RECONSTRUCTION
TOWN OF CLINT, TEXAS

FENTER RD. EAST SEGMENT
PLAN & PROFILE PLAN
FROM STA 21+00 TO 26+00

Sheet reference number:
Sheet 11 of 29



Huitt-Zollars, Inc.
Firm Registration No. F-761

Work	D.D. No.	Action	Date

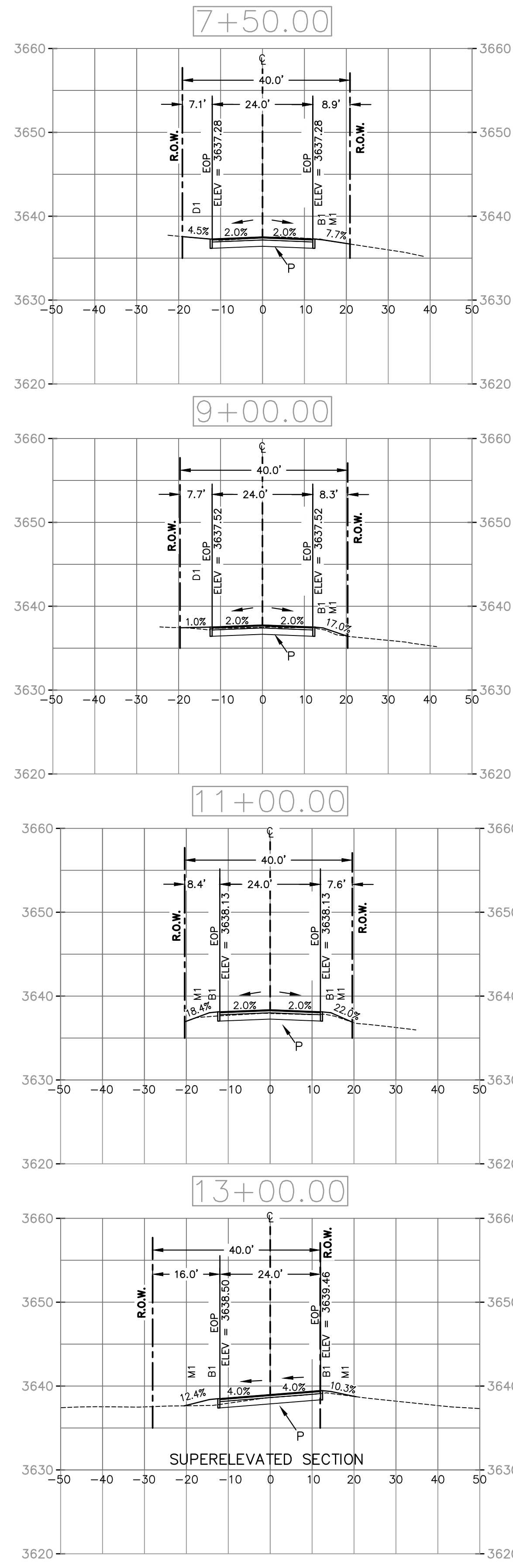
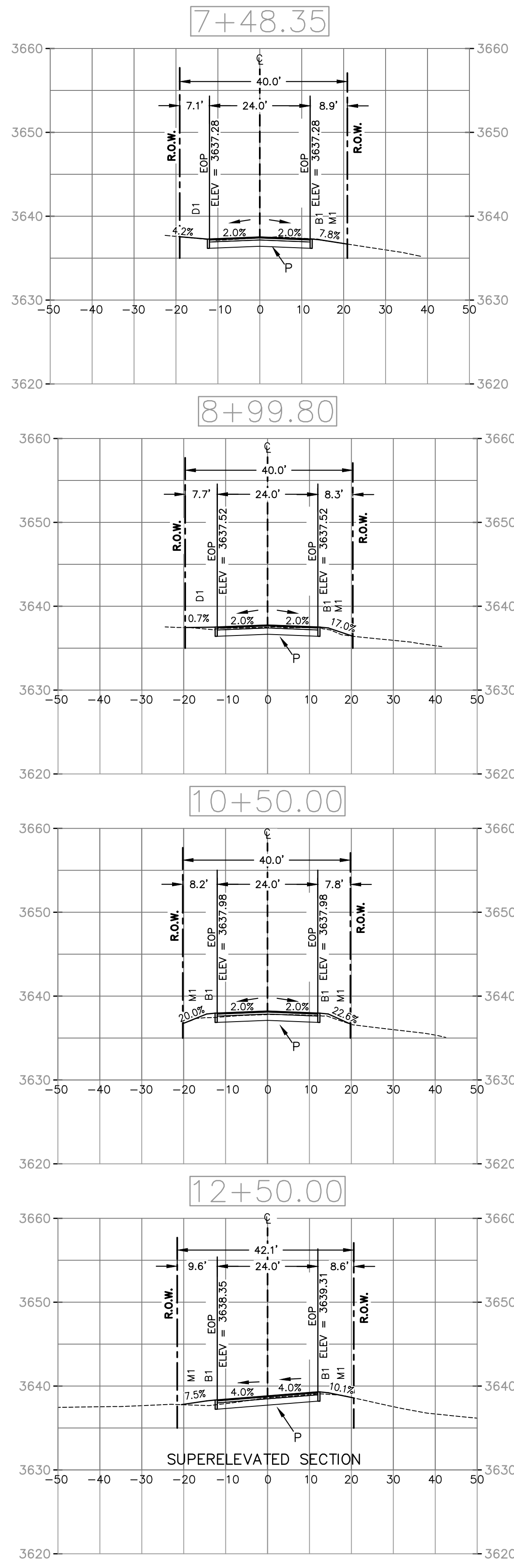
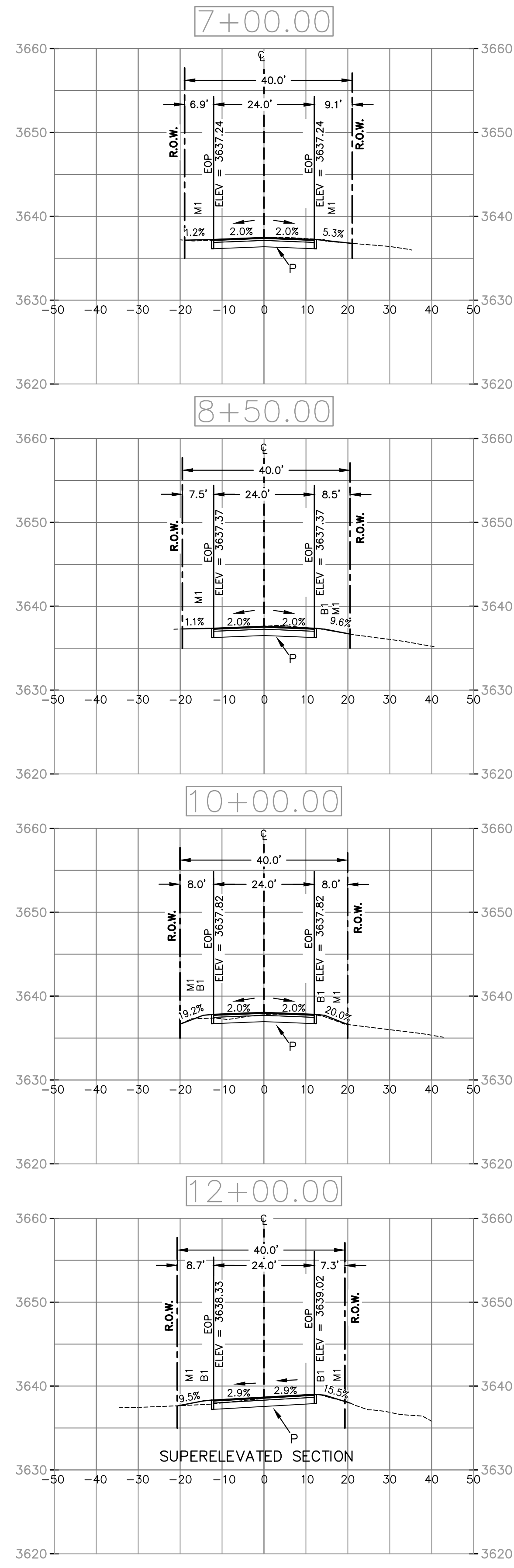
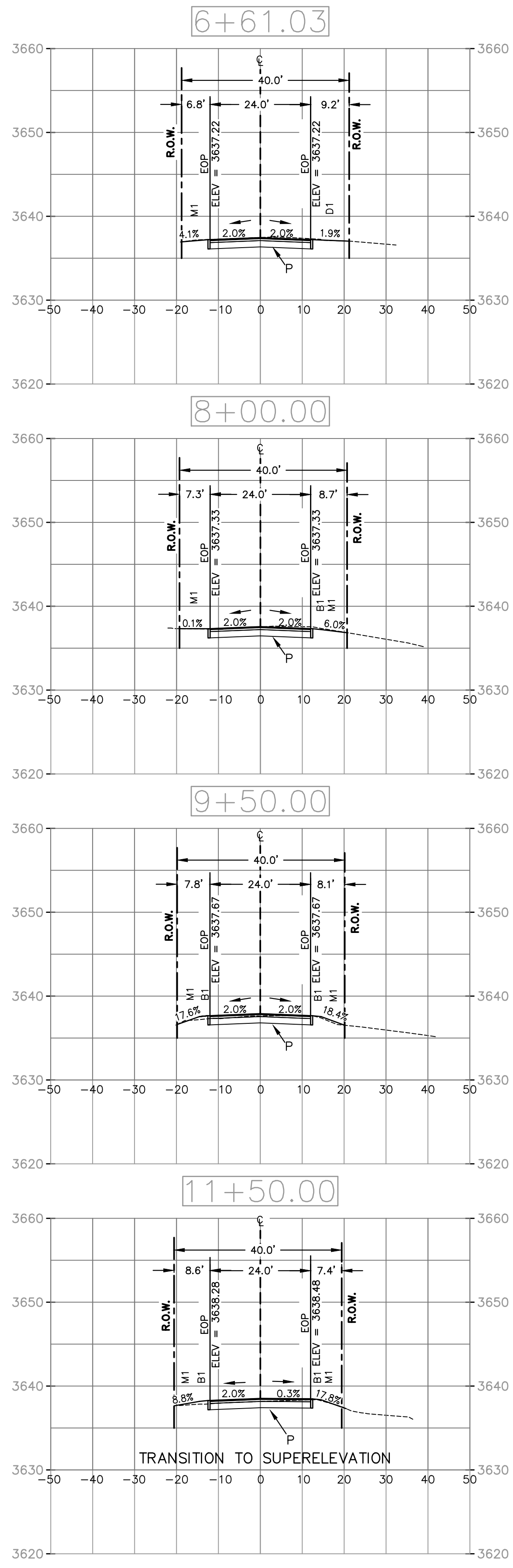
Designed by:	Drawn by:	Checked by:	Reviewed by:
D. ORTEGA	A. GALLEGOS	A. GALLEGOS	R. MEDINA

Lower Valley WATER DISTRICT
TOWN OF CLINT TEXAS
6907 Coates Road, Suite 101
Blanco, Texas 78626-5822
979.539.4399
www.lowervalley.com

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www.huittzollars.com

FENTER RD. RECONSTRUCTION
TOWN OF CLINT, TEXAS
CROSS SECTIONS
FROM STA 6+61.03 TO 13+00.00

Sheet reference number:
Sheet 14 of 29



LEGEND:
 - - - - EXISTING GRADE ROW RIGHT OF WAY M1 MATCH TO EX. GRADE 25% MAX. D1 UNPAVED DRIVEWAY
 ——— PROPOSED GRADE EOP EDGE OF PAVEMENT B1 2' BENCH 5% MAX. A1 ASPHALT DRIVEWAY (REFER TO CIVIL DETAILS)
 P PAVEMENT SECTION (REFER TO CIVIL DETAILS)



Huitt-Zollars, Inc.
Firm Registration No. F-761

Rev.	Date	Description

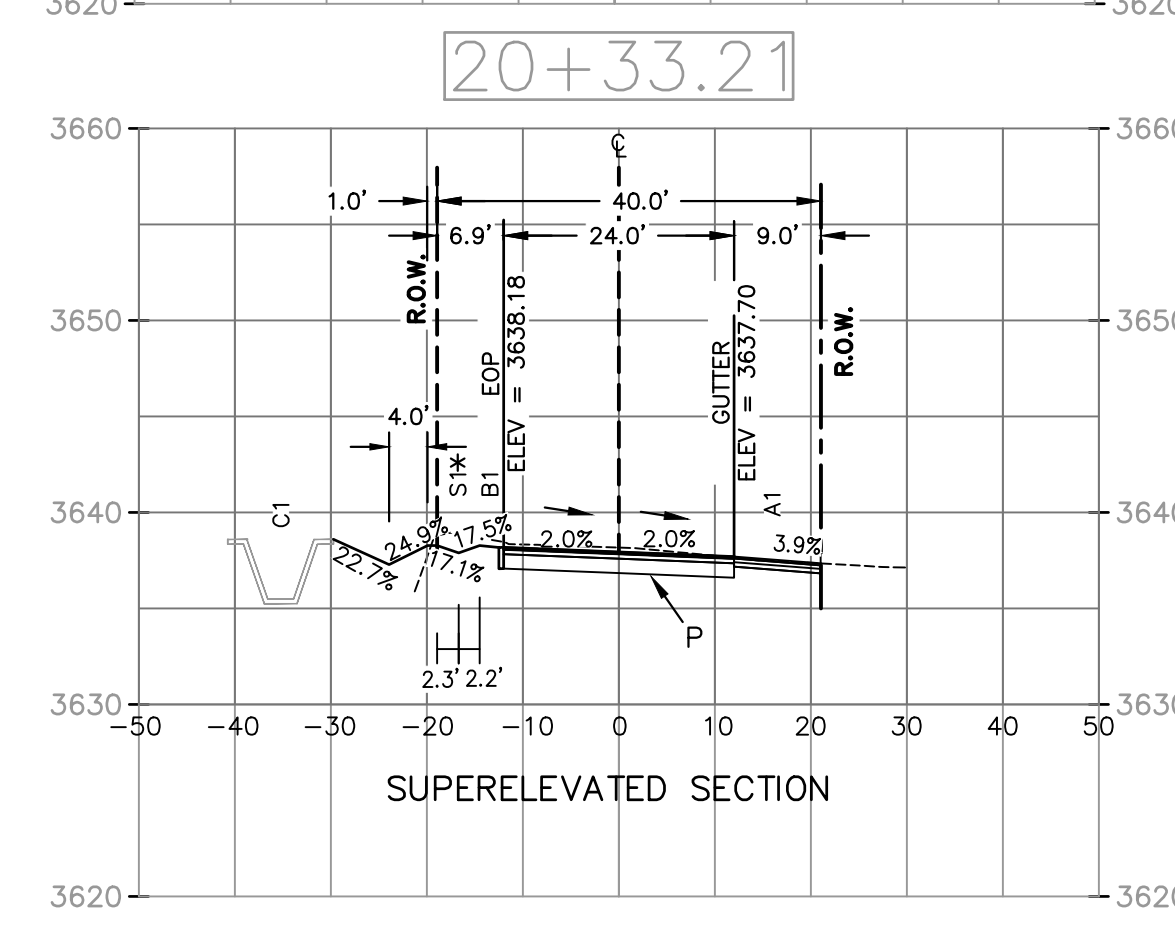
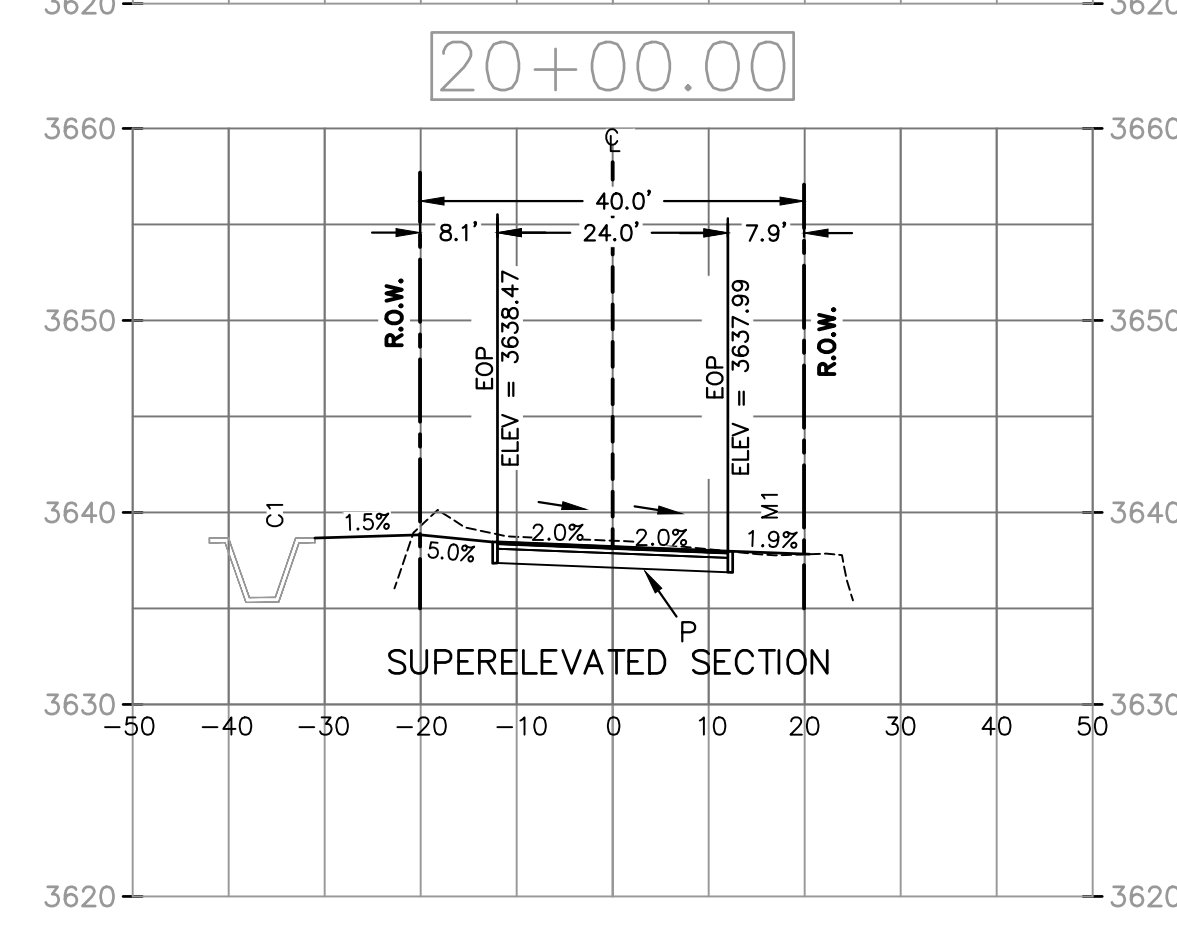
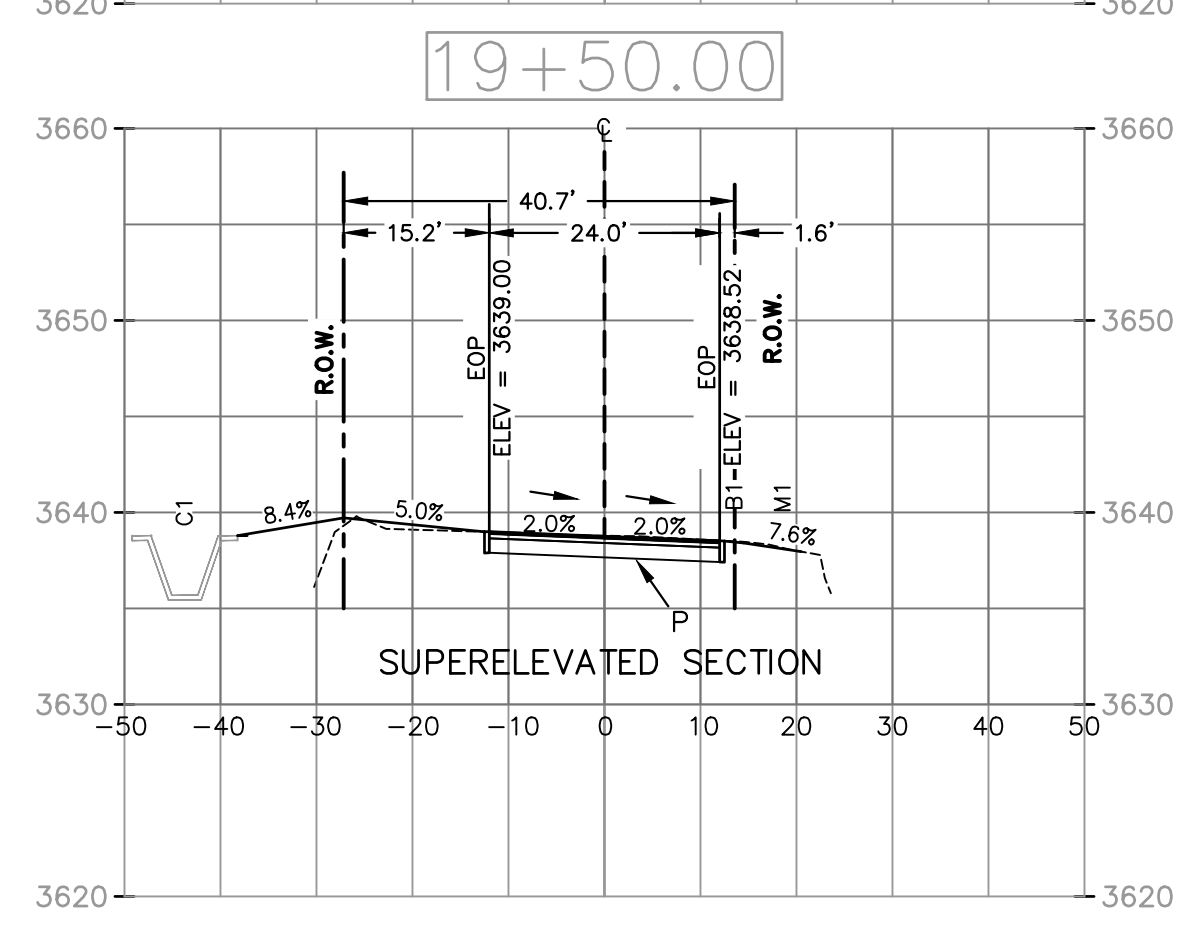
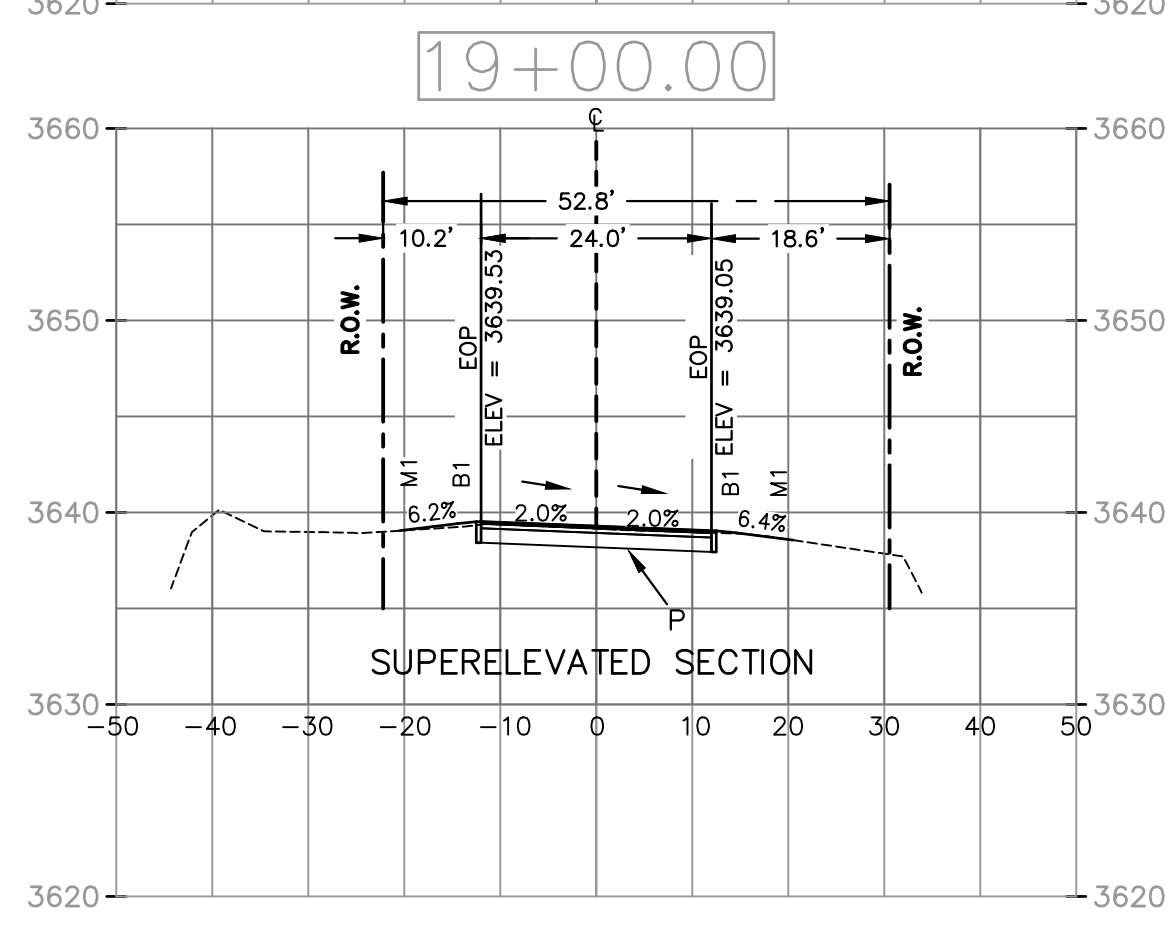
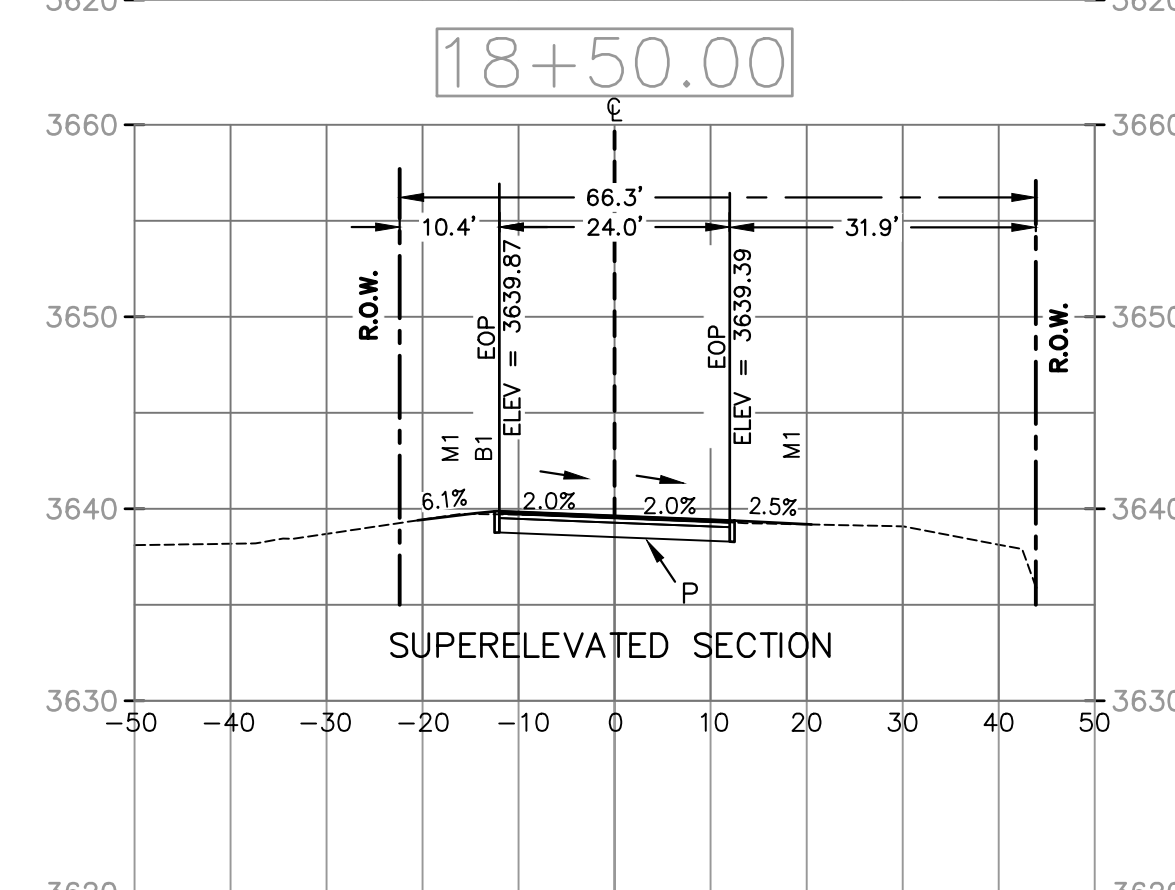
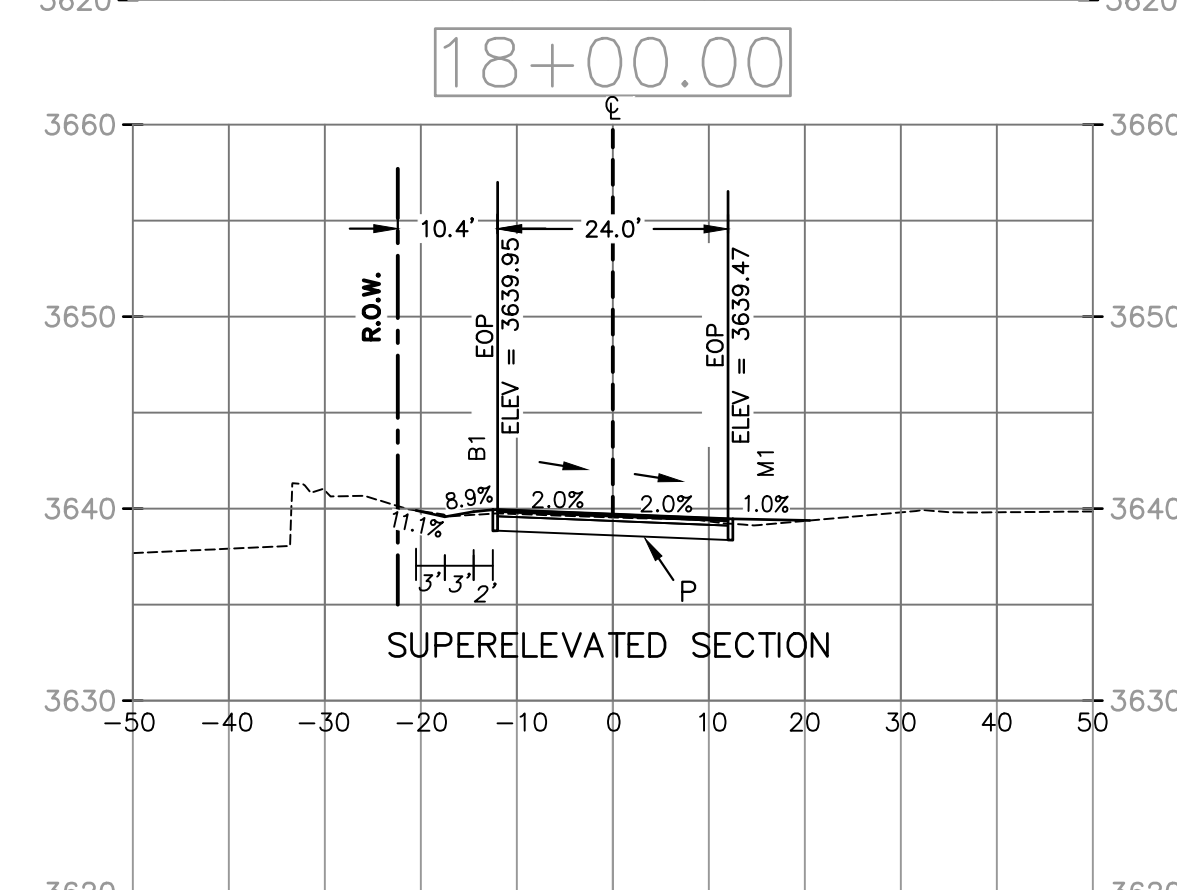
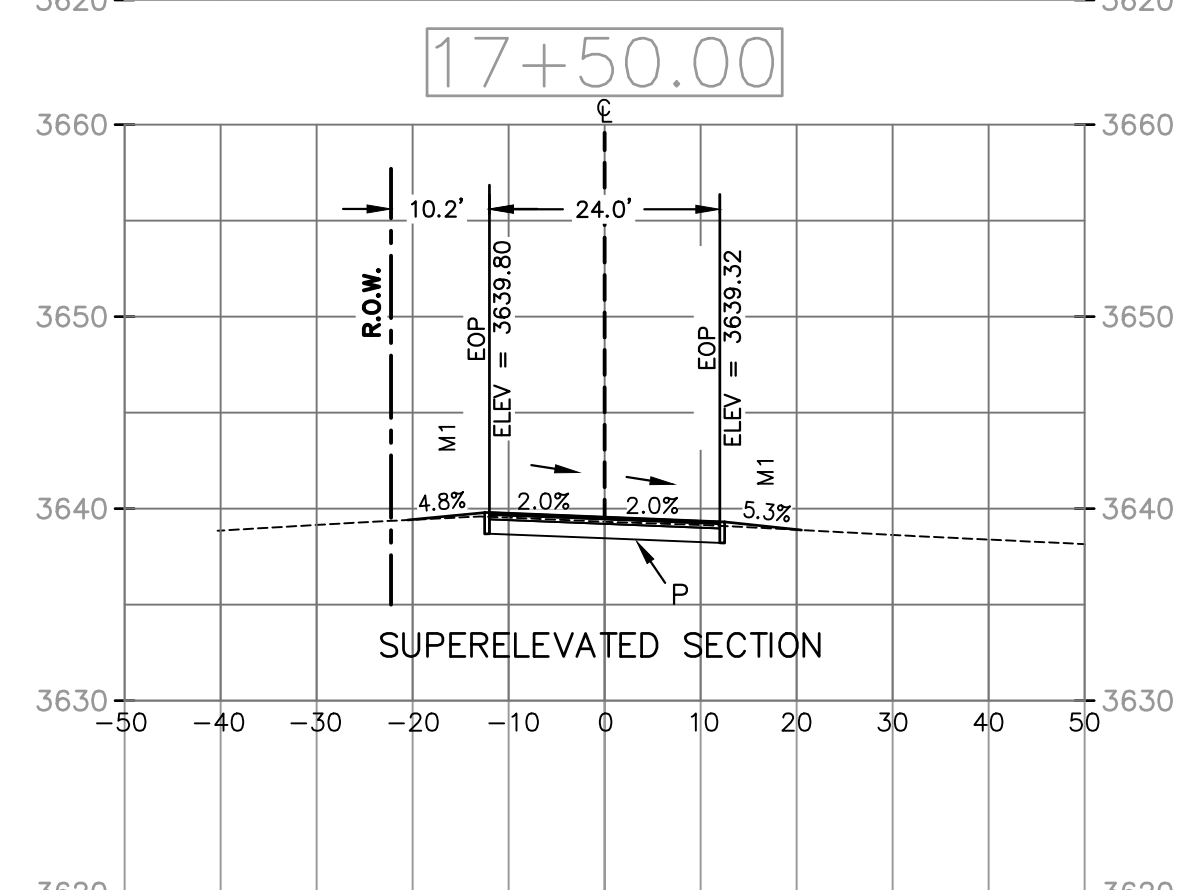
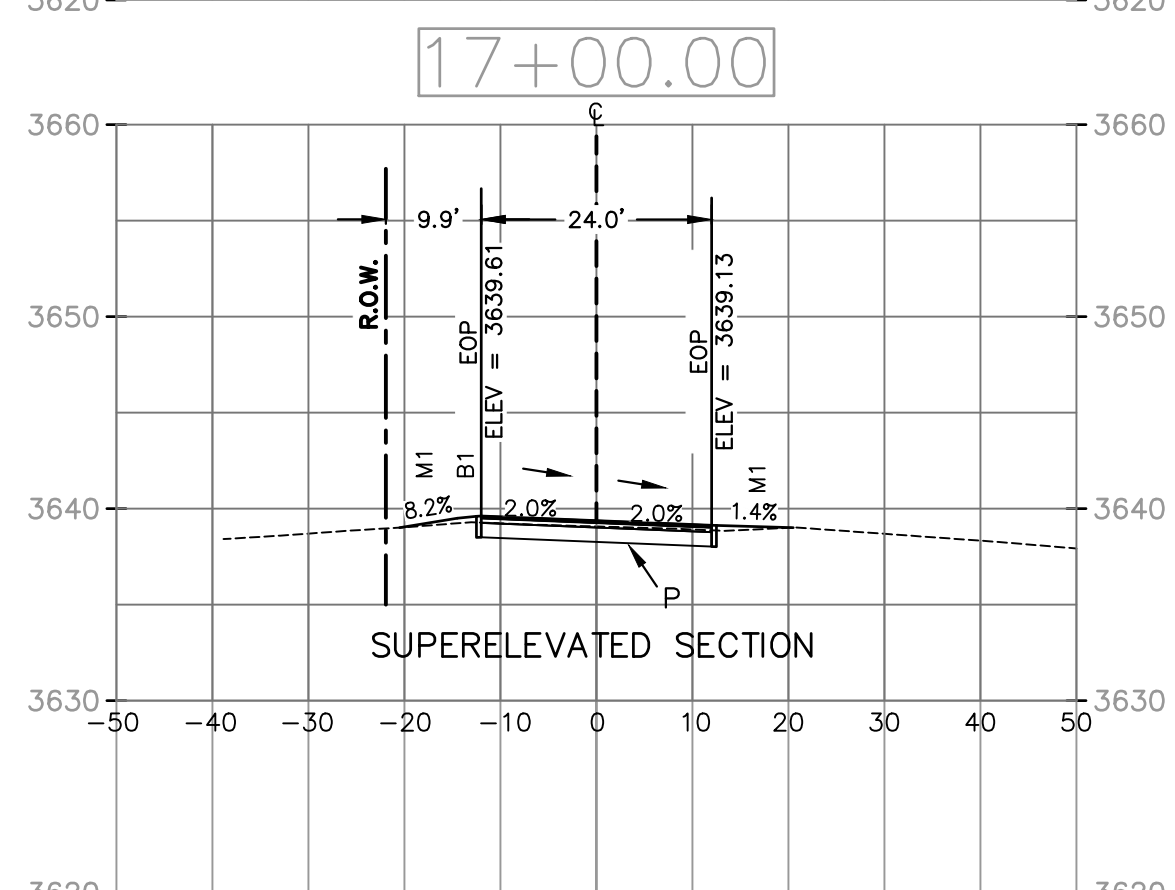
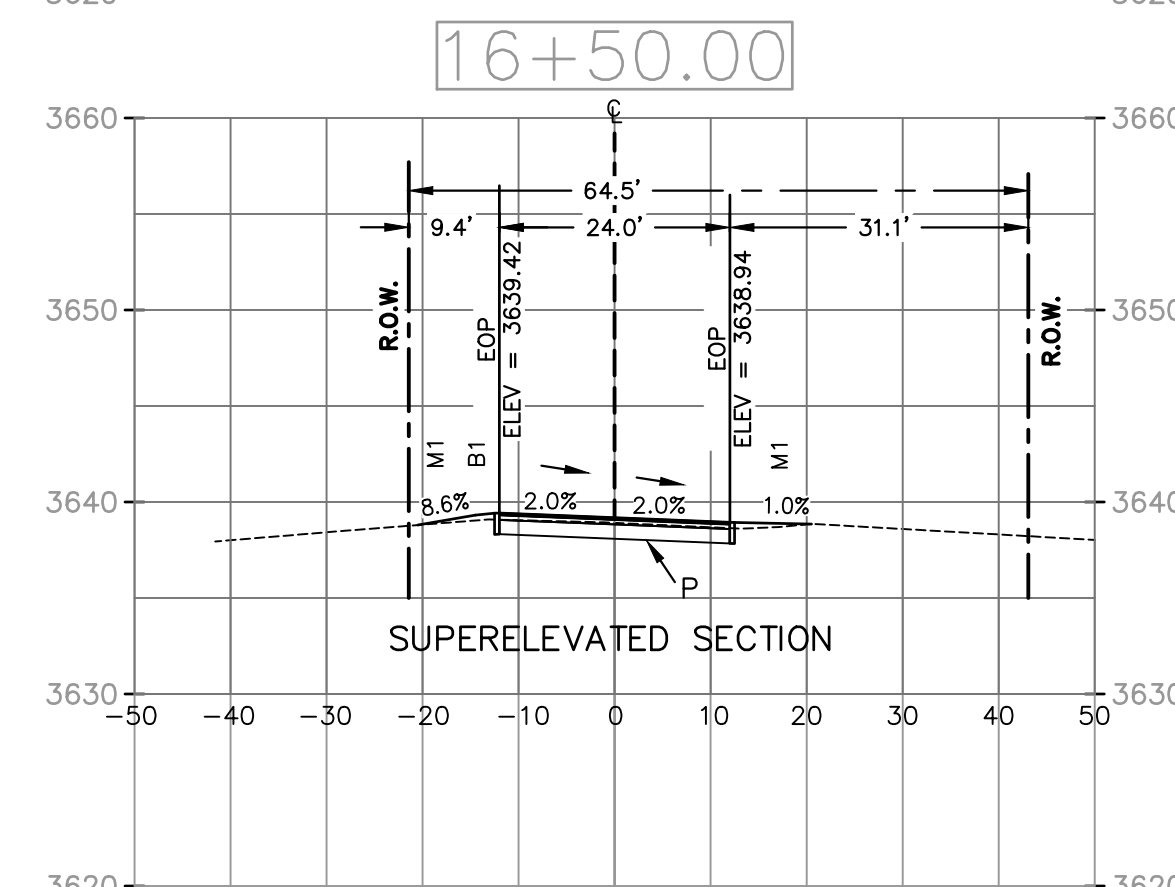
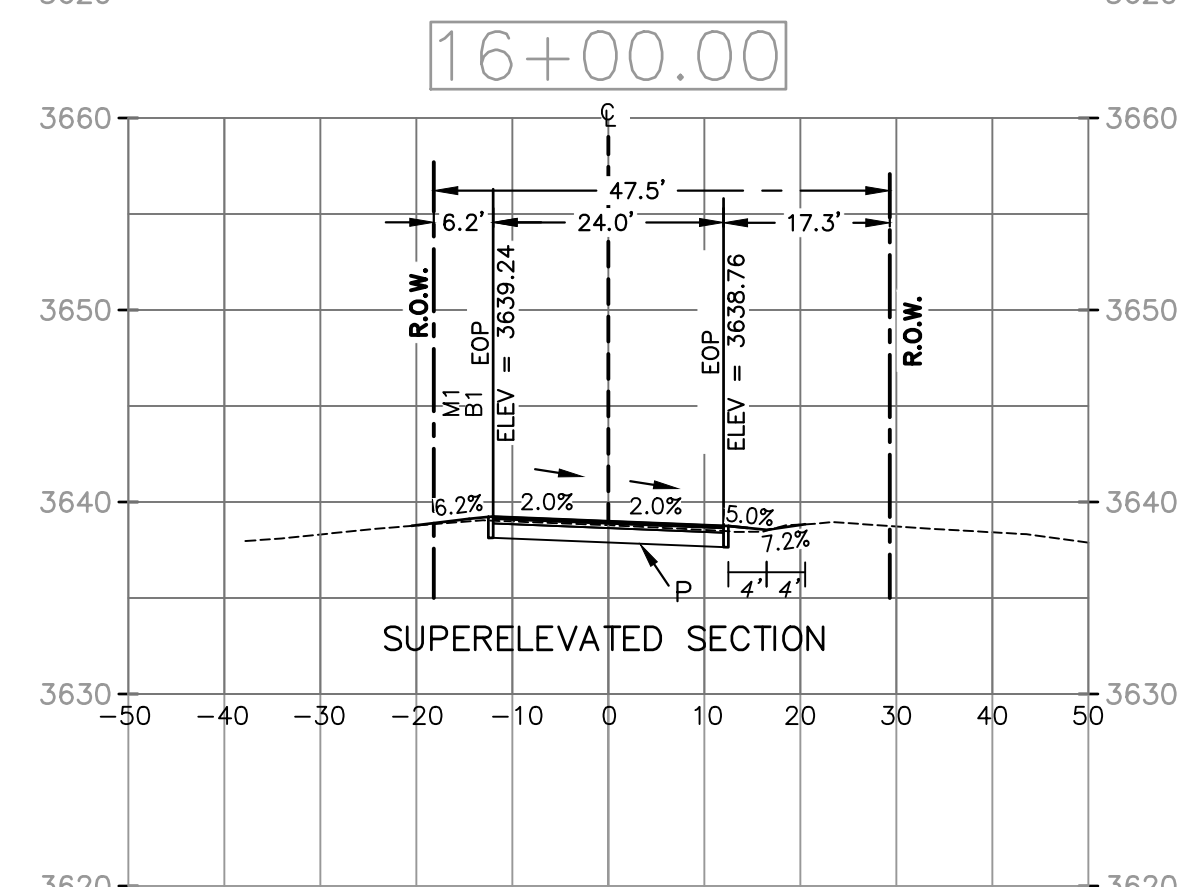
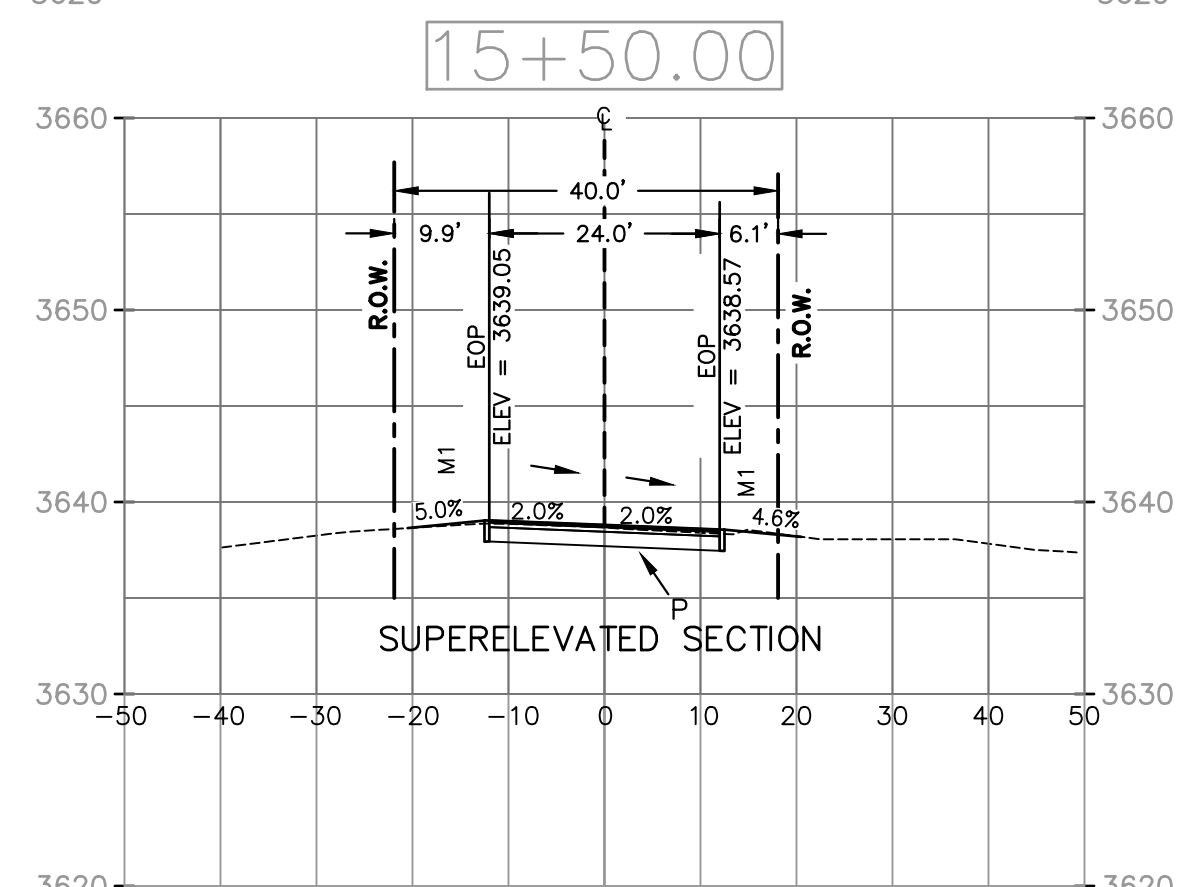
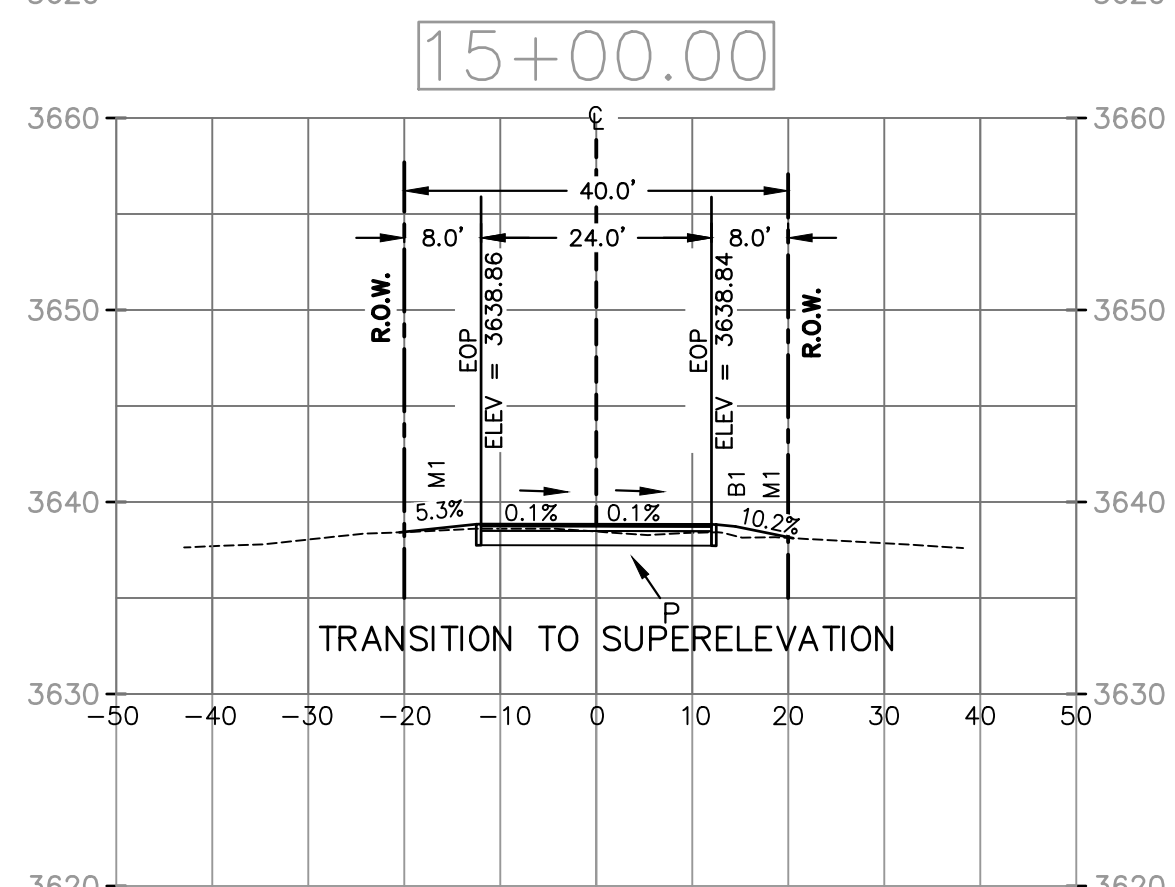
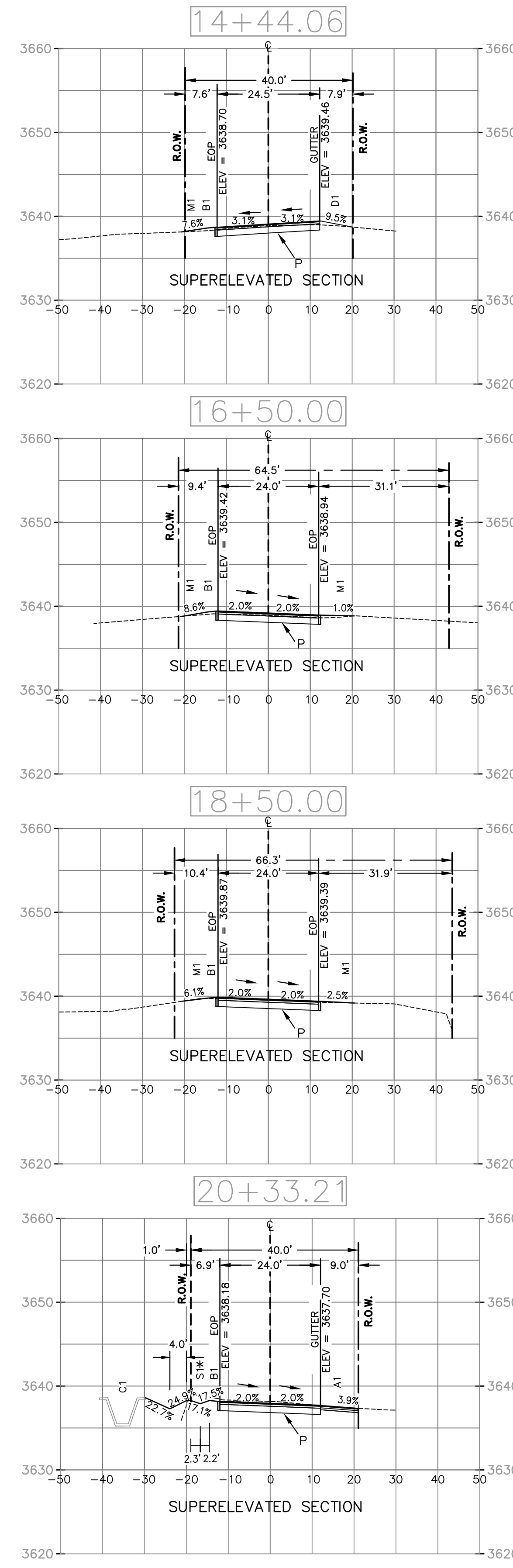
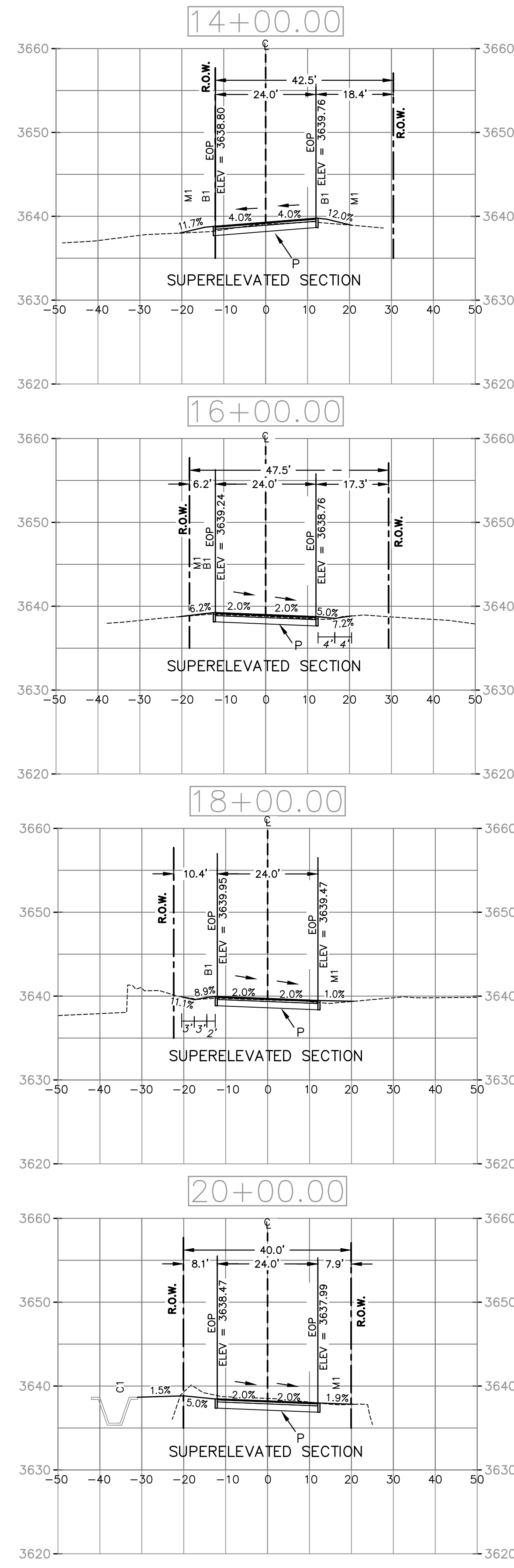
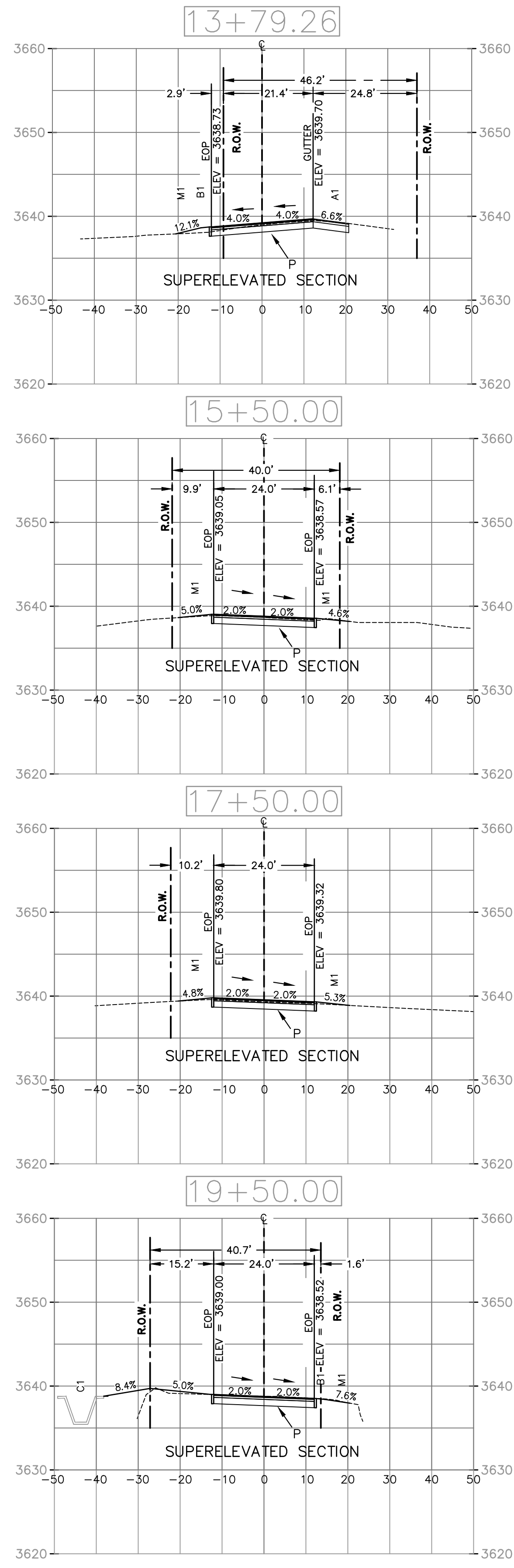
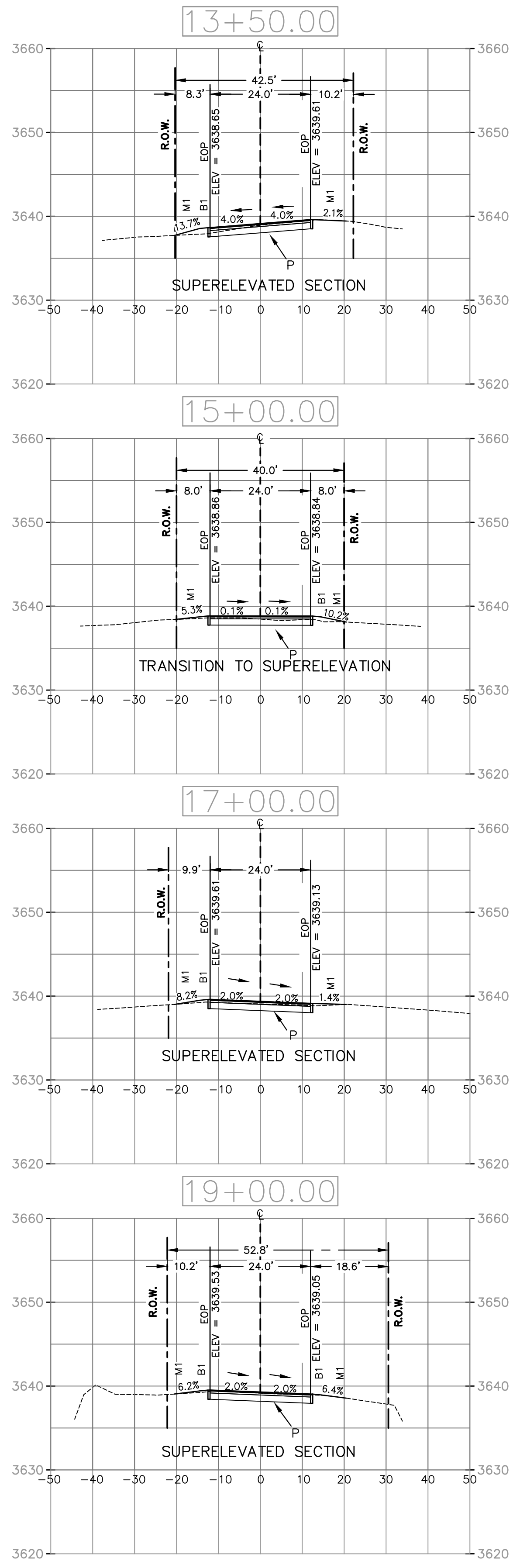
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Reviewed by: R. MEDINA	

Date: 03-10-2021	Rev.
Design file no. 	
Drawing code: 	

LOWER VALLEY WATER DISTRICT
TOWN OF CLINT TEXAS
6907 Coates Road, Suite 310
El Paso, Texas 79912-5822
915.859.4289
www.lowervalley.com

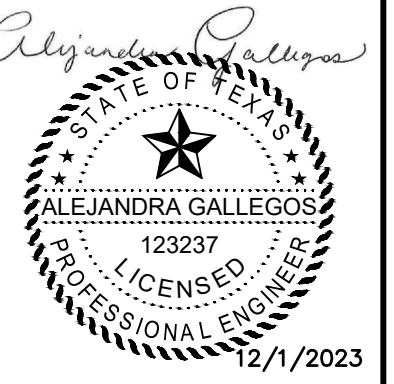
HUITT ZOLLARS

FENTER RD. RECONSTRUCTION
TOWN OF CLINT, TEXAS
CROSS SECTIONS
FROM STA 13+50.00 TO 20+35.21



*GRADING FOR BASE BID 1 ALTERNATE 1. REFER TO DRAINAGE PLAN SHEET FOR BASE BID 1 GRADING.

- LEGEND:**
- EXISTING GRADE
 - ROW RIGHT OF WAY
 - M1 MATCH TO EX. GRADE 25% MAX.
 - D1 UNPAVED DRIVEWAY
 - PROPOSED GRADE
 - EOP EDGE OF PAVEMENT
 - B1 2' BENCH 5% MAX.
 - C1 PROPOSED CULVERT BY OTHERS
 - A1 ASPHALT DRIVEWAY (REFER TO CIVIL DETAILS)
 - S1 V-CANNEL WITH MAX FRONT AND BACK SLOPE OF 20% (REFER TO DRAINAGE PLAN SHEET)
 - P PAVEMENT SECTION (REFER TO CIVIL DETAILS)
 - S2 V-CANNEL WITH FRONT AND BACK SLOPE 20% (REFER TO DRAINAGE PLAN SHEET)



Huitt-Zollars, Inc.
Firm Registration No. F-761

** GRADING FOR BASE BID ALTERNATIVE 1. REFER TO DRAINAGE PLAN SHEET FOR BASE BID GRADING.

** CONTRACTOR SHALL VERIFY LOCATION OF EXISTING GAS LINES. A MINIMUM 1.5' COVER OVER EXISTING GAS LINES SHALL BE PROVIDED. GRADES FOR S1 AND S2 V-CHANNELS MAY BE REDUCED TO PROVIDE THE REQUIRED COVER FROM STA 20+45 TO STA 22+30.

Rev.	Date	Description

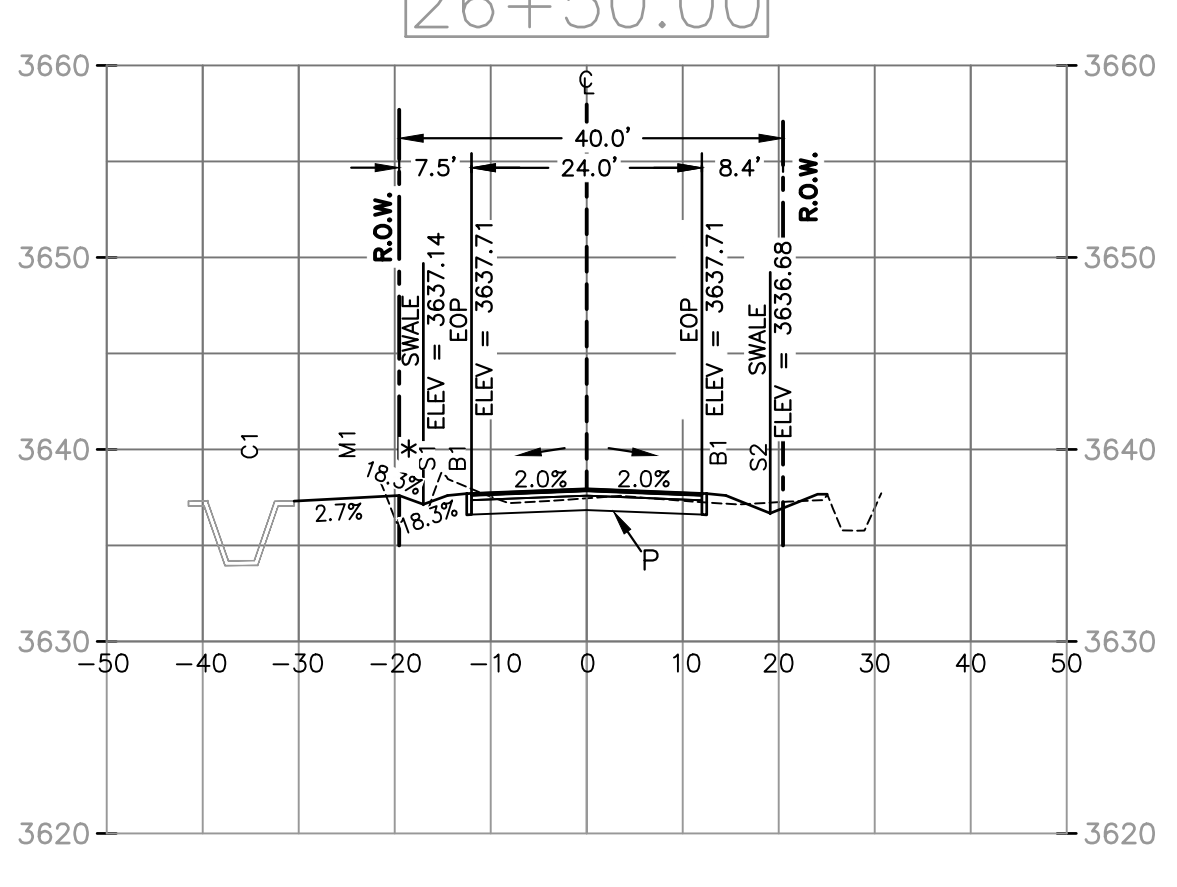
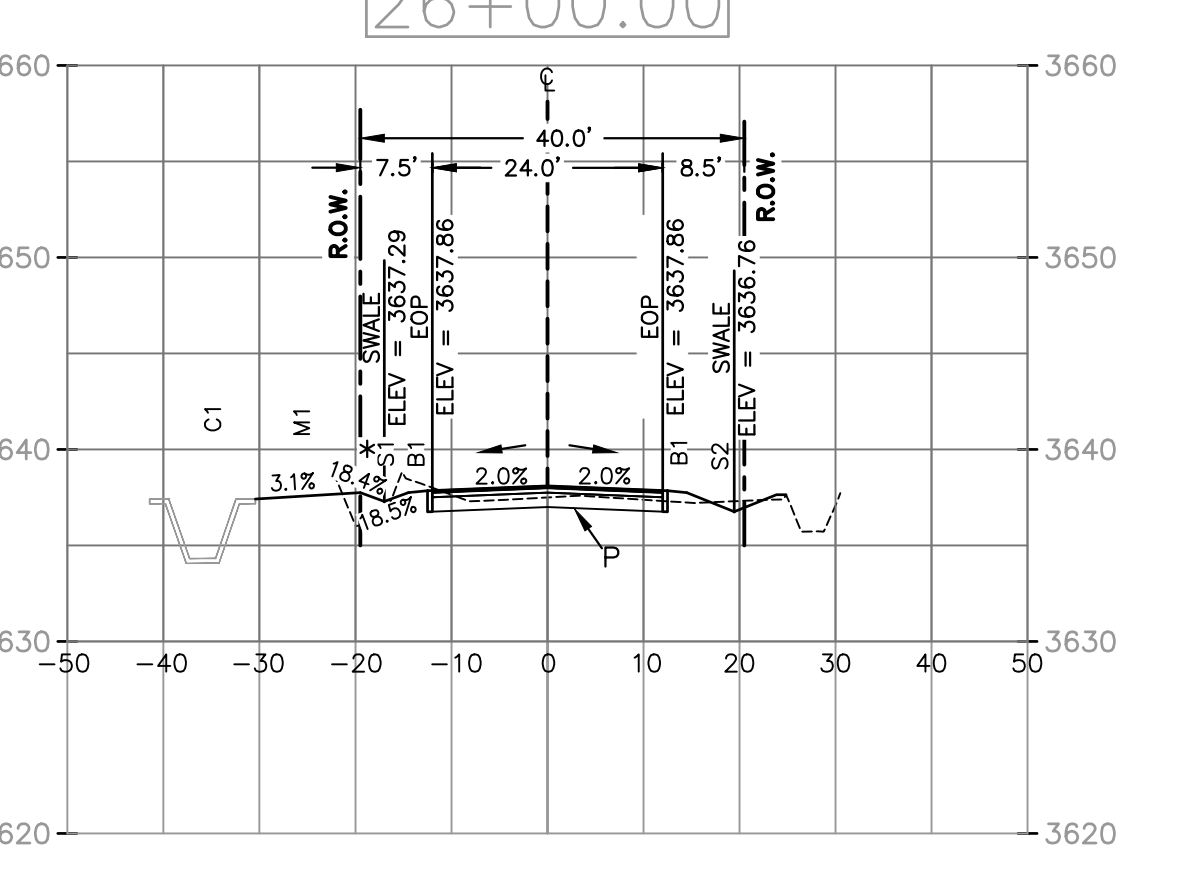
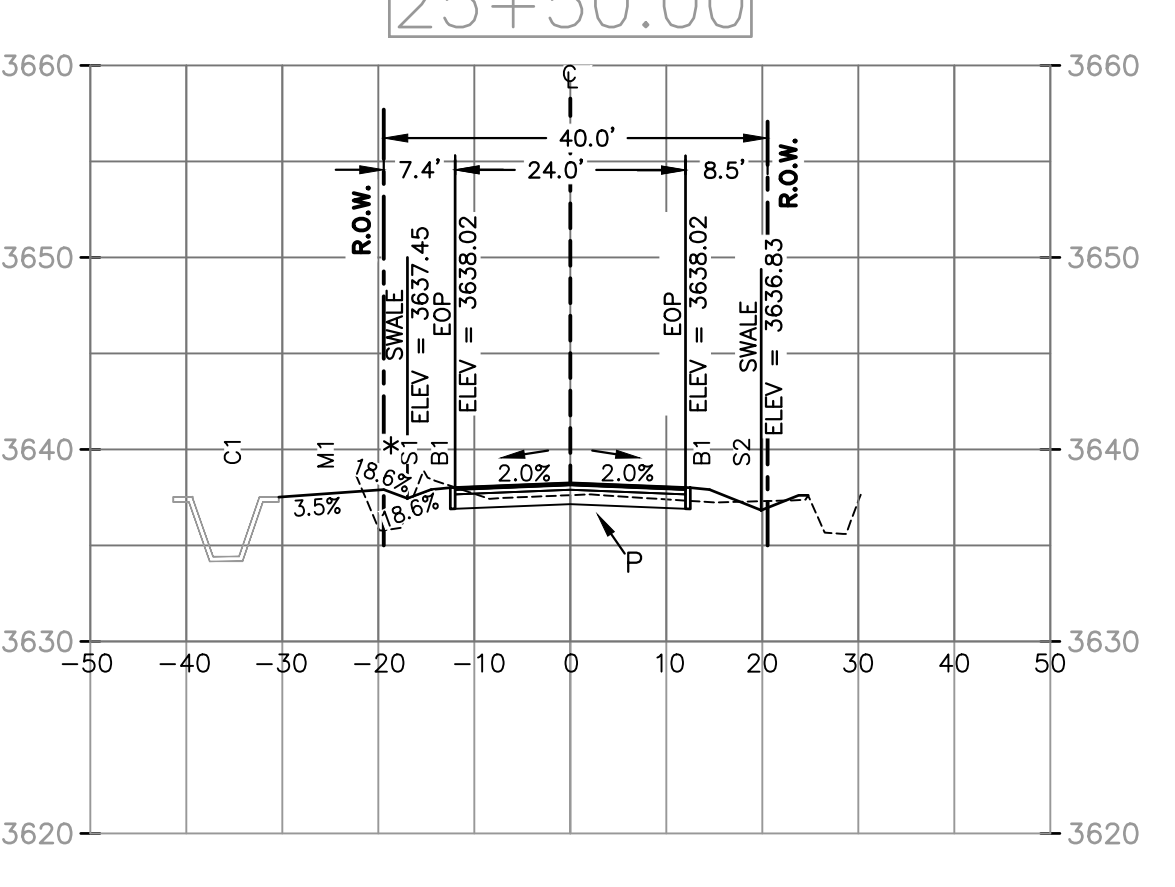
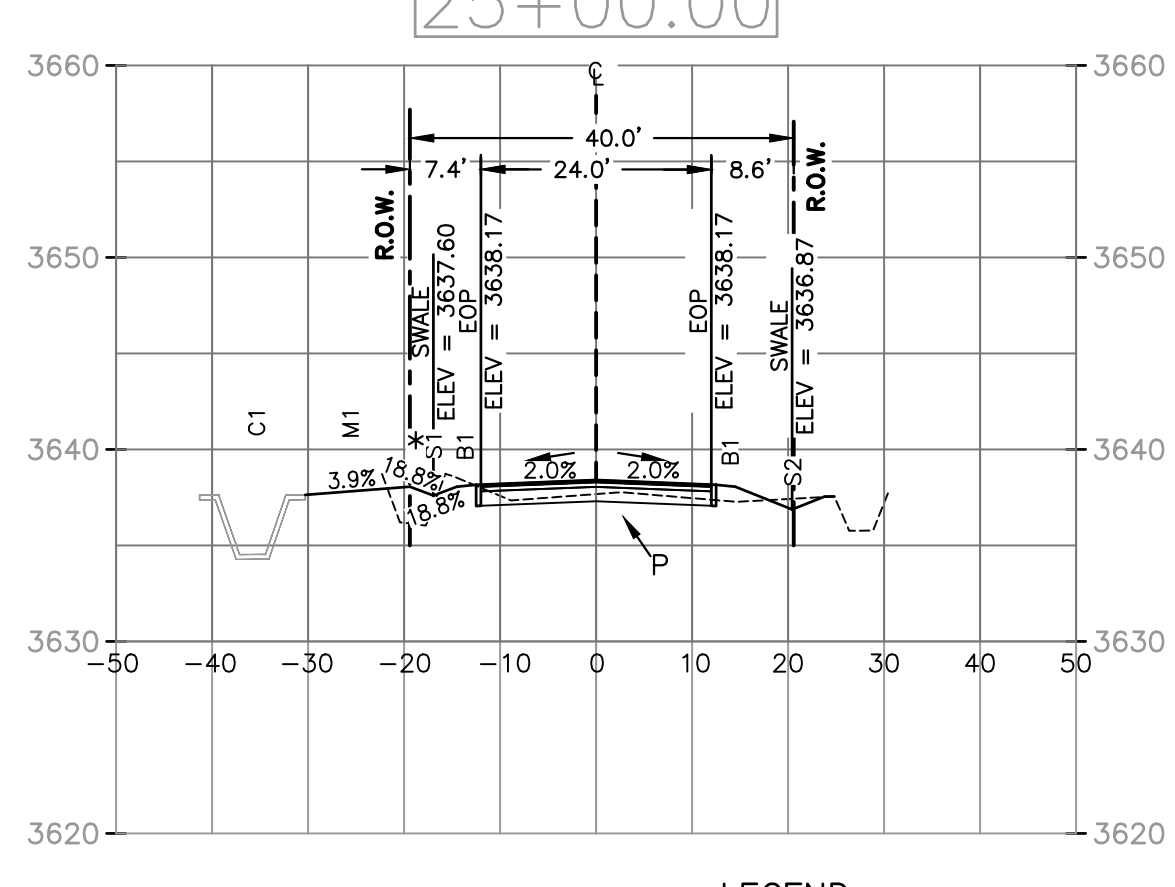
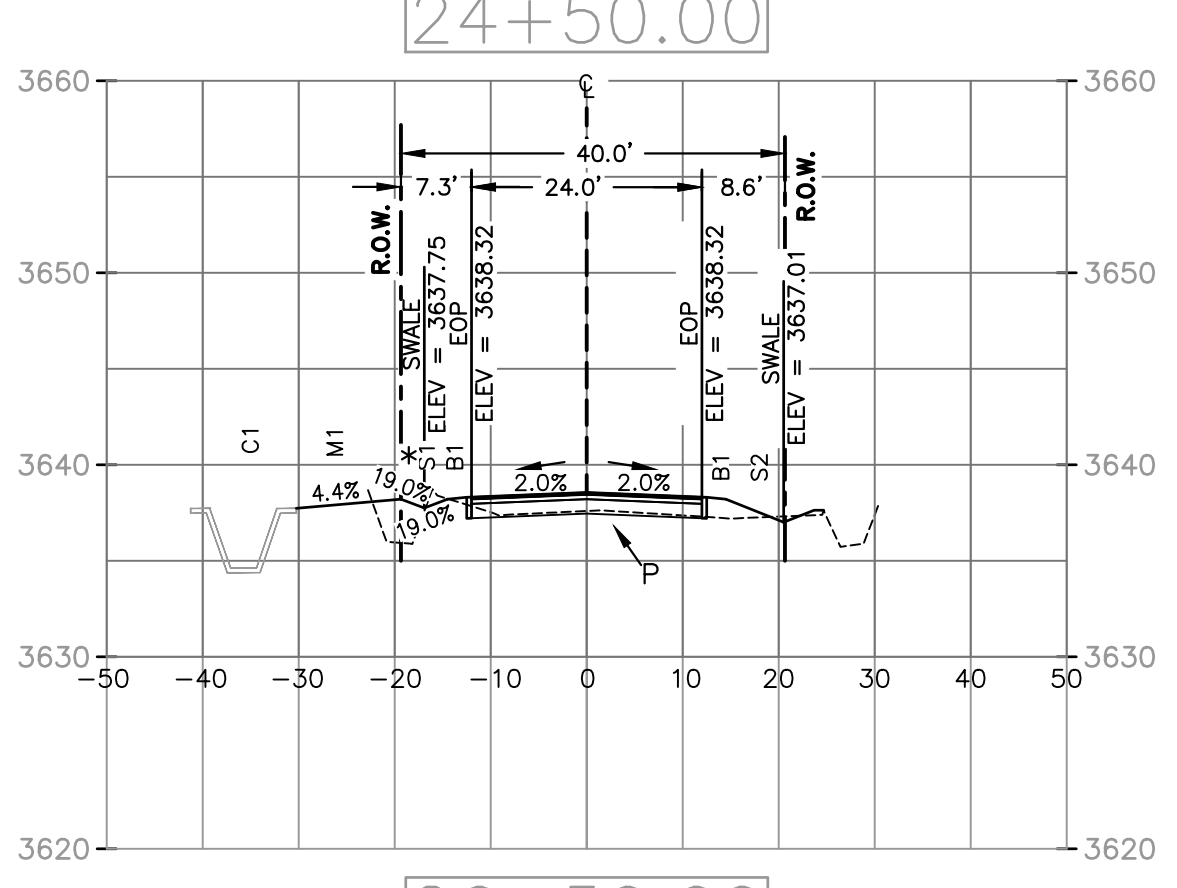
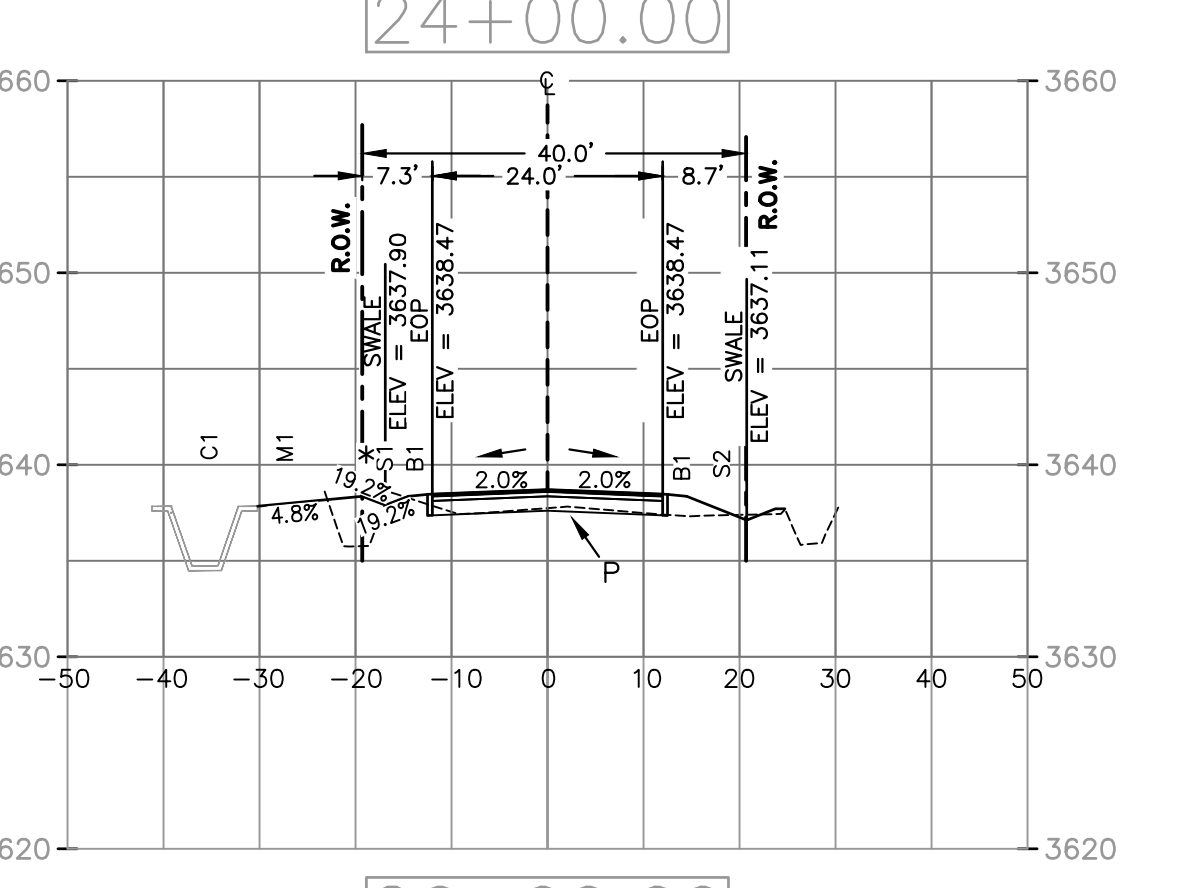
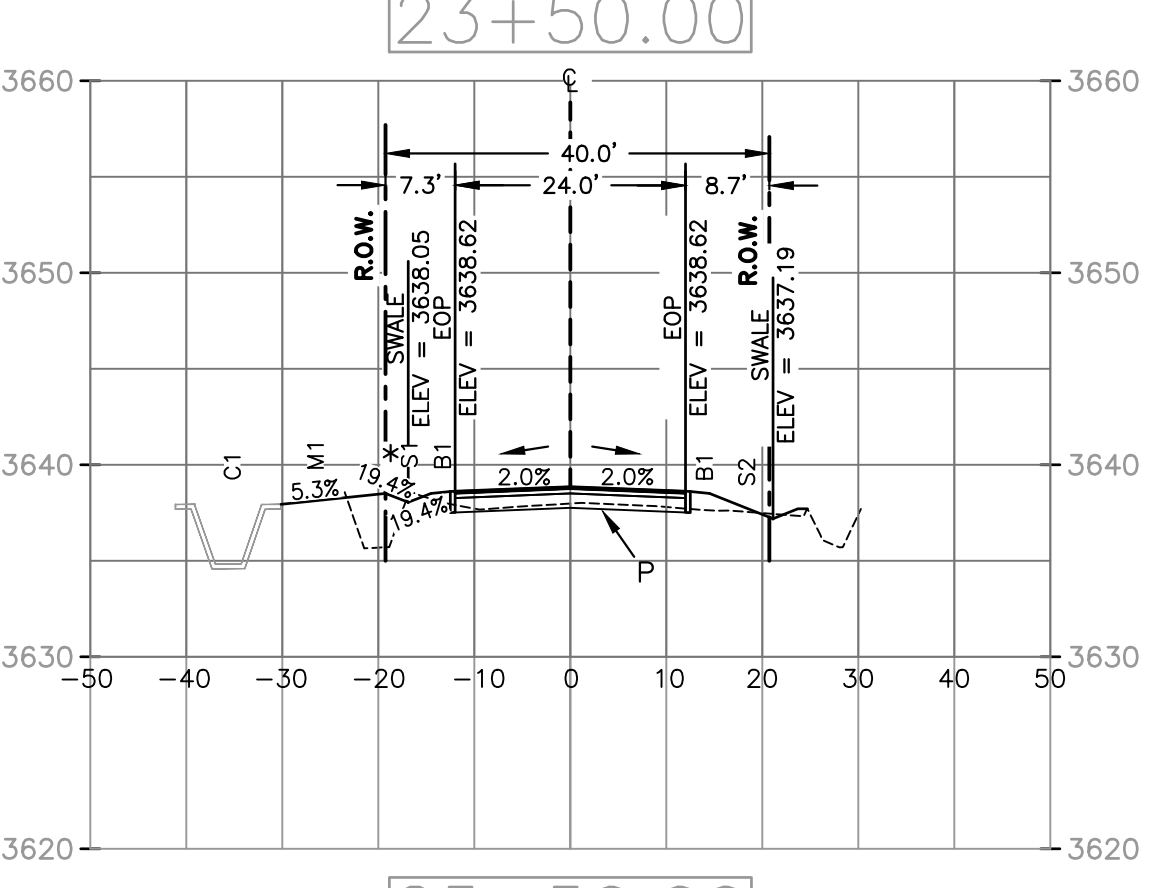
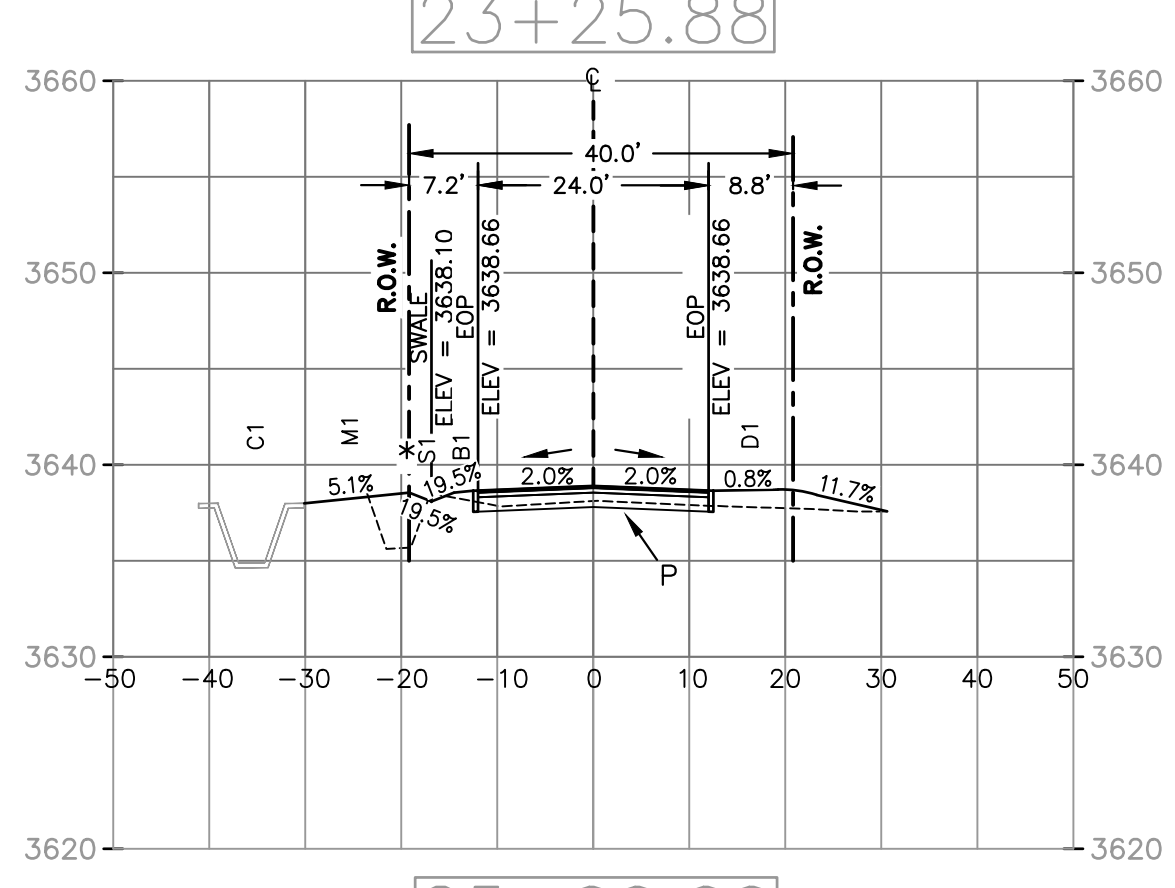
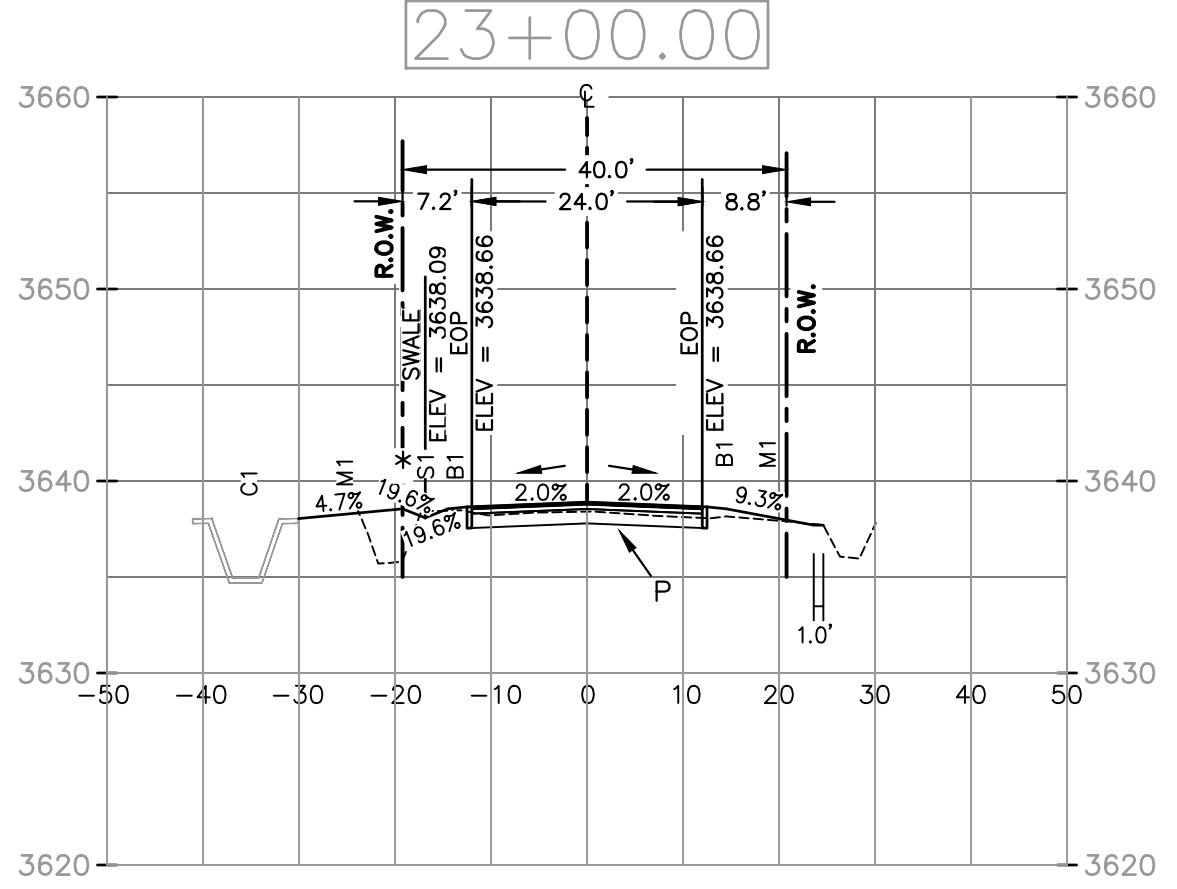
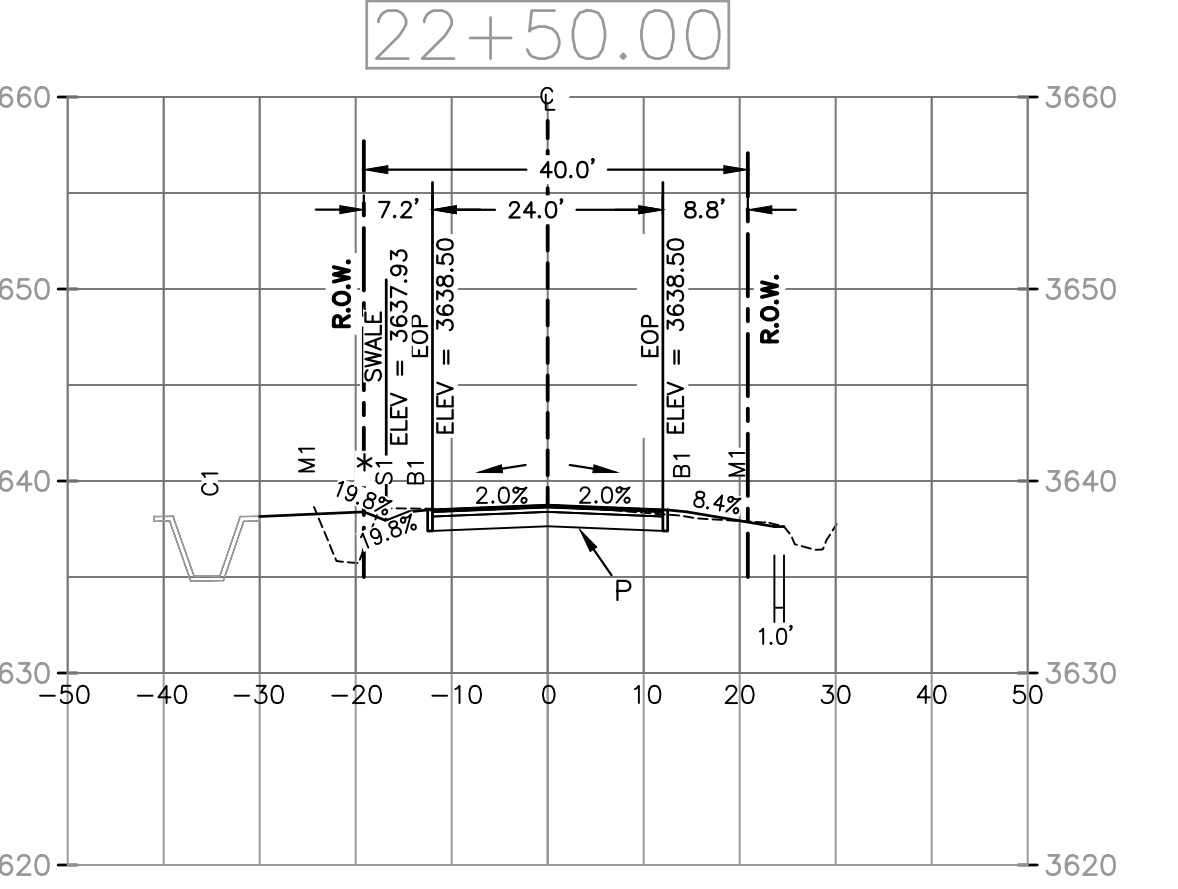
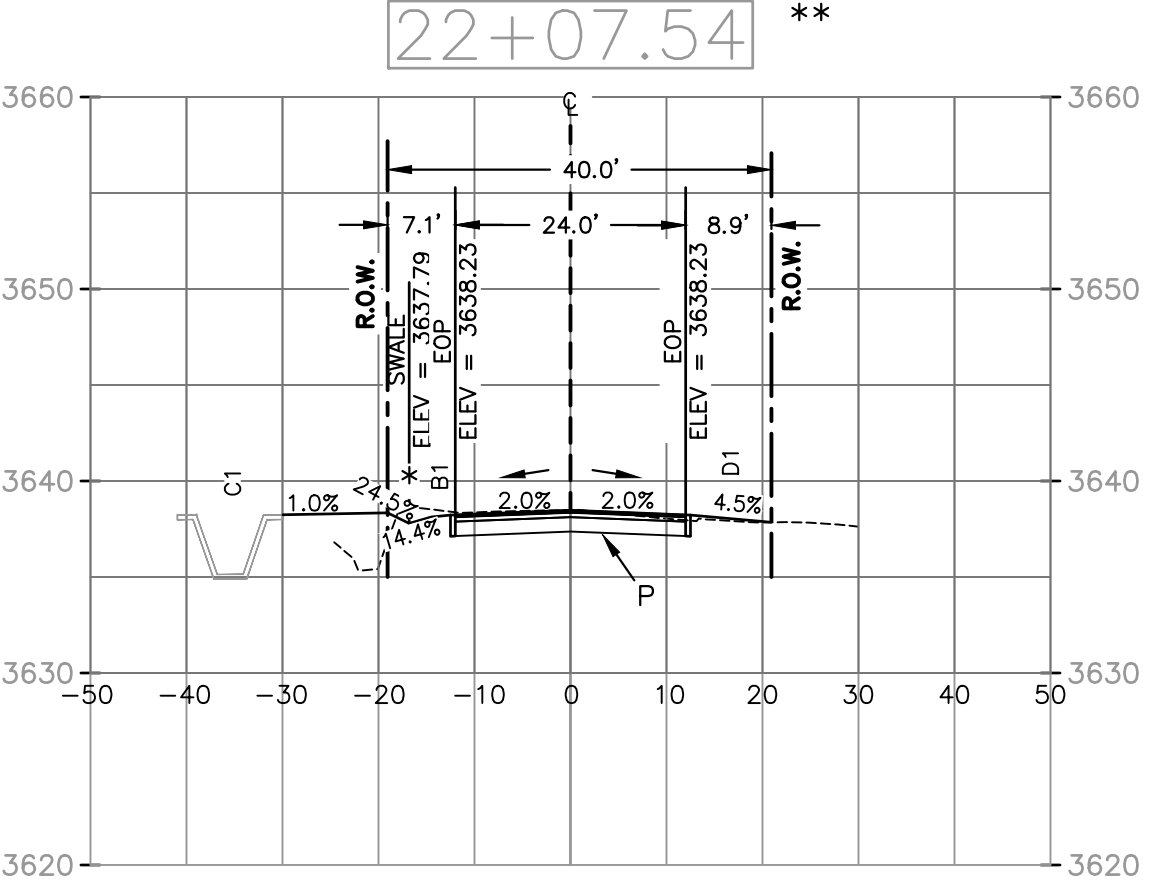
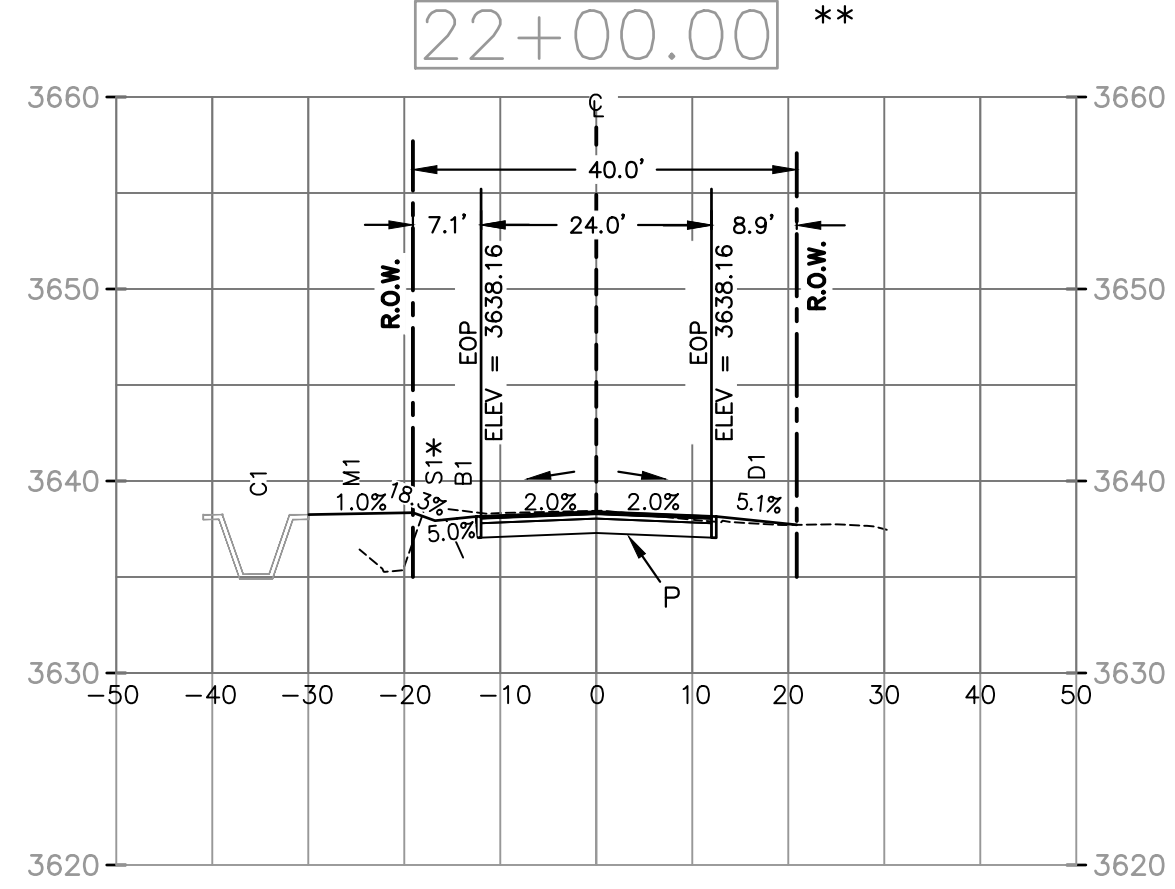
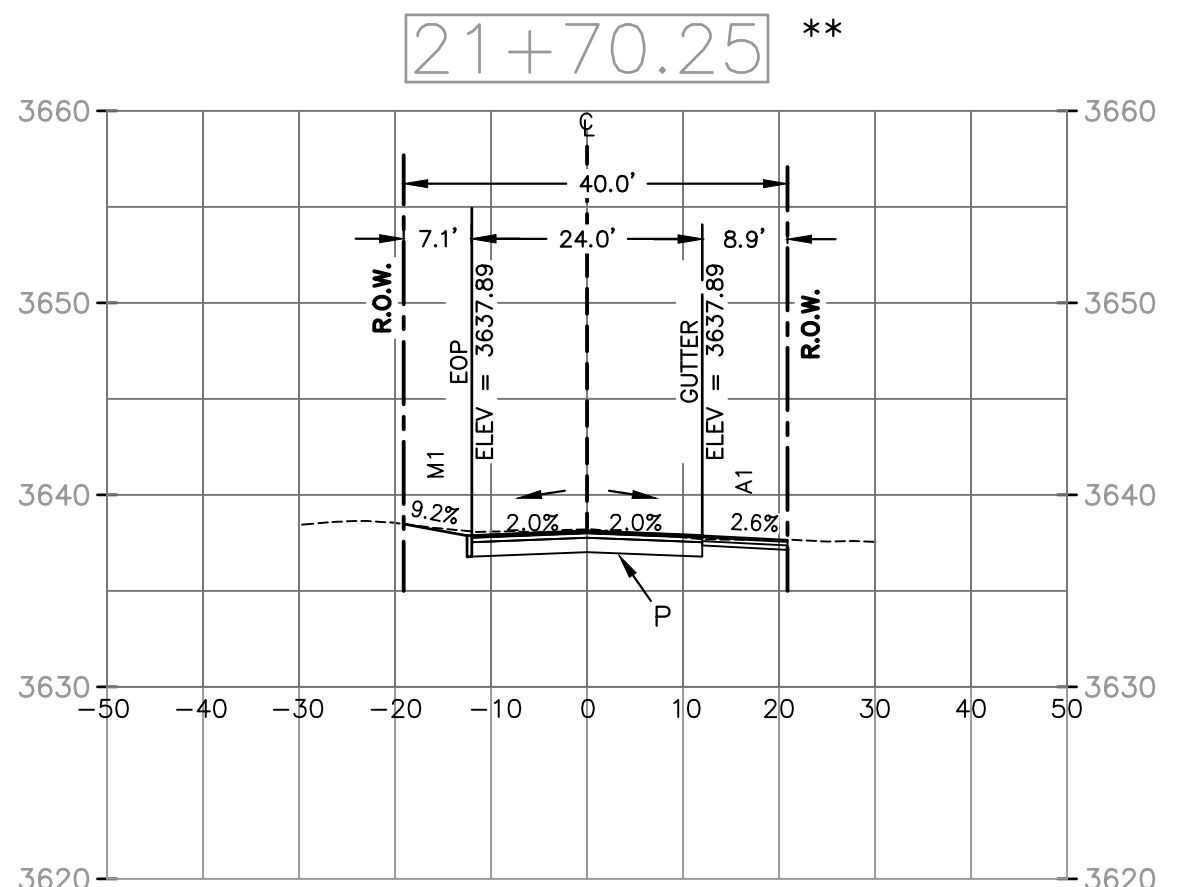
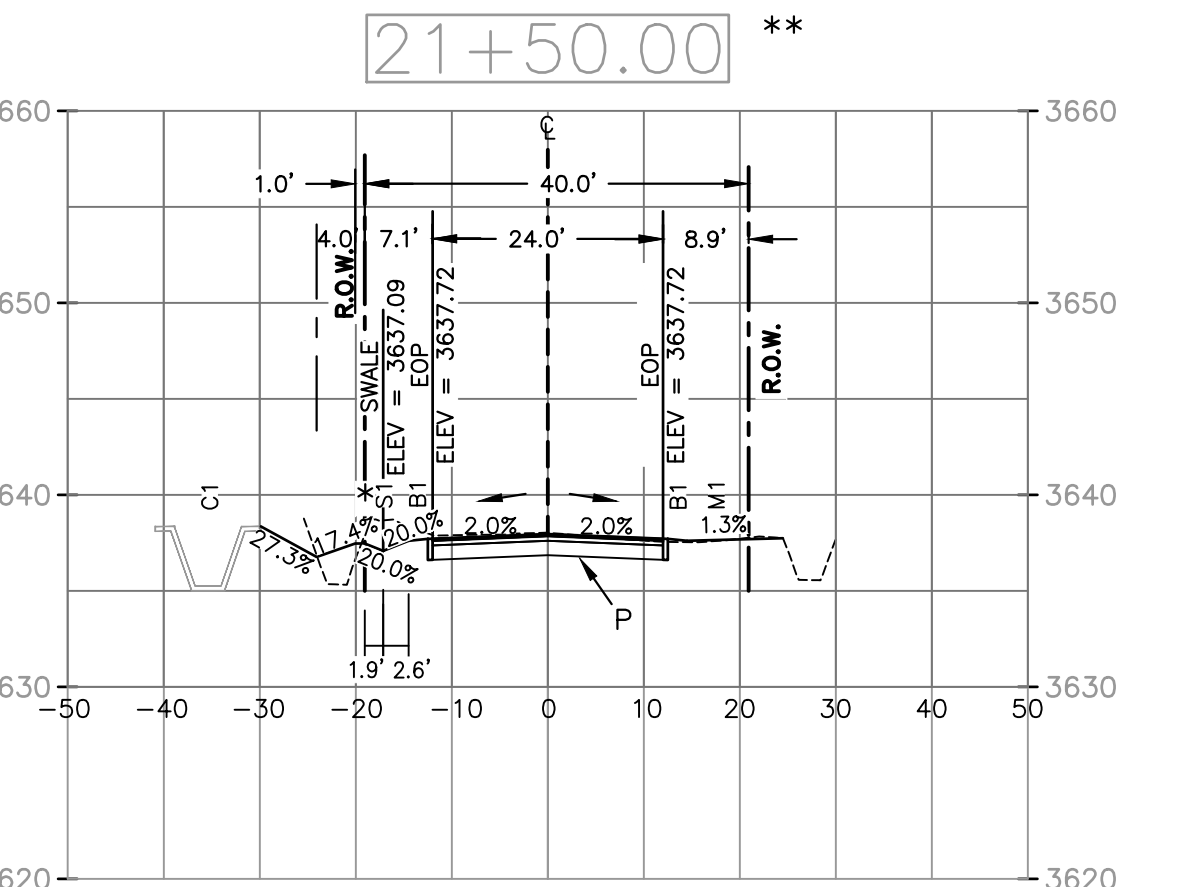
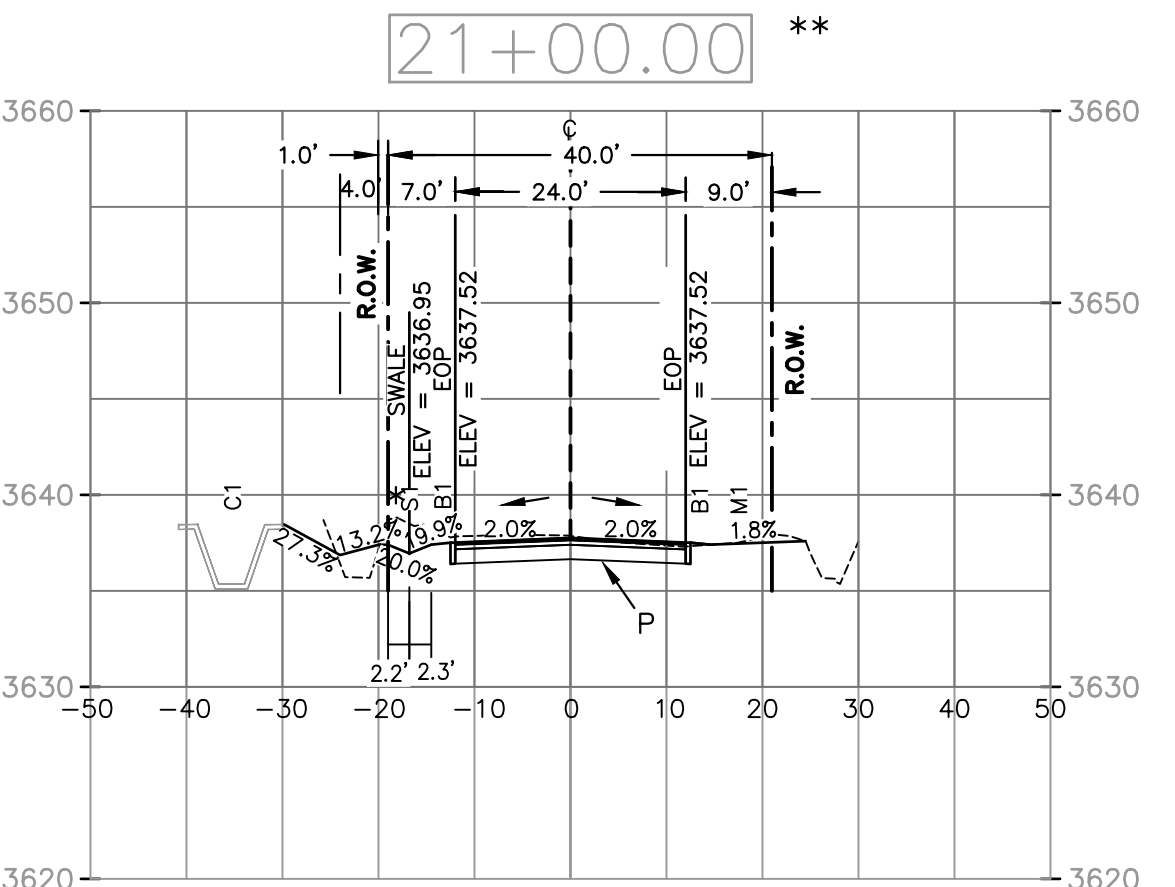
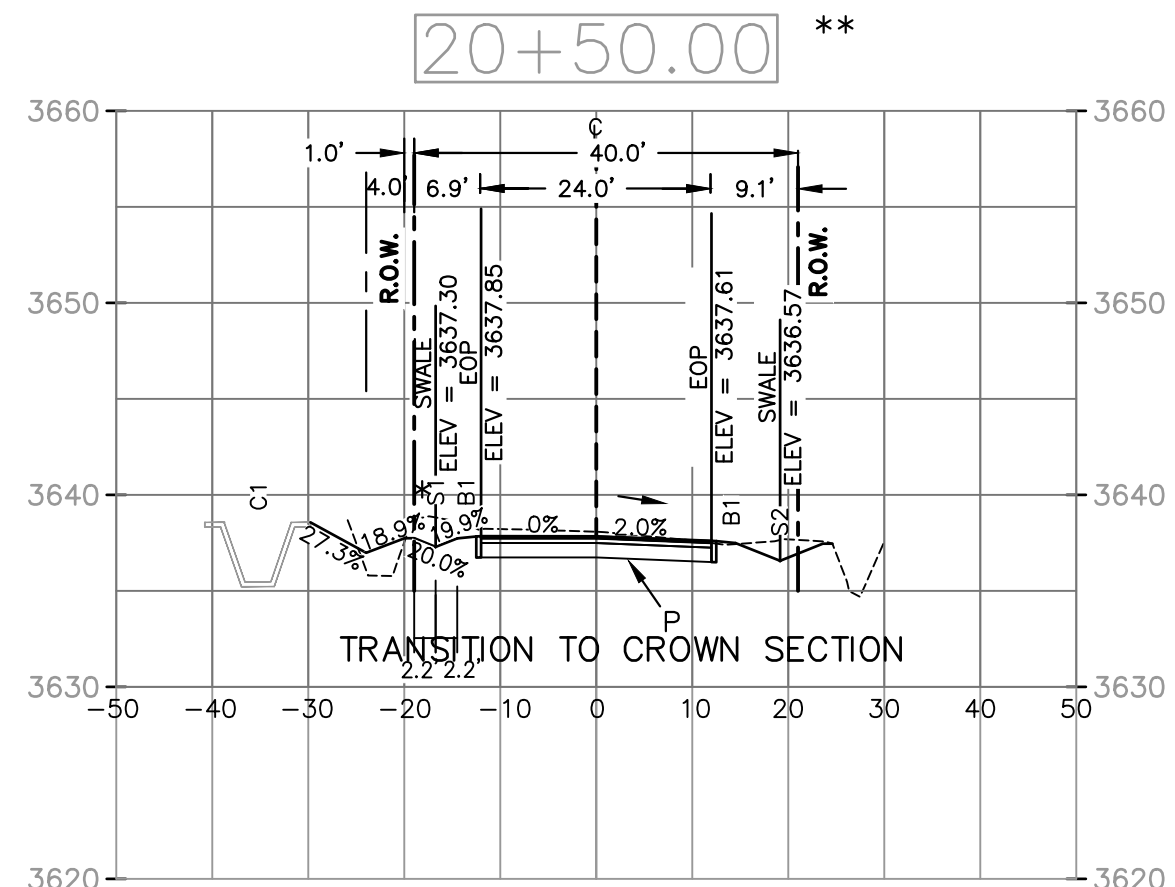
Rev.	Date	Description

DESIGNED BY: **D. URTICA**
 DRAWN BY: **A. GALLEGOS**
 CHECKED BY: **A. GALLEGOS**
 REVIEWED BY: **R. MEDINA**

DATE: 03-10-2021
 DESIGN FILE NO.:
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 PLOT SCALE: 1:1

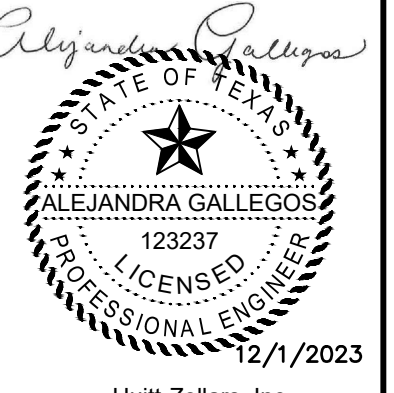
LOWER VALLEY WATER DISTRICT
 TOWN OF CLINT TEXAS
 FENTER RD. RECONSTRUCTION
 TOWN OF CLINT, TEXAS
 CROSS SECTIONS
 FROM STA 20+50.00 TO 26+50.00

Sheet reference number:
 Sheet 16 of 29



LEGEND:

- EXISTING GRADE
- ROW RIGHT OF WAY
- EOP EDGE OF PAVEMENT
- M1 MATCH TO EX. GRADE 25% MAX.
- B1 2' BENCH 5% MAX.
- C1 UNPAVED DRIVEWAY
- P PROPOSED CULVERT BY OTHERS
- A1 ASPHALT DRIVEWAY (REFER TO CIVIL DETAILS)
- P PAVEMENT SECTION (REFER TO CIVIL DETAILS)
- S1 V-CHANNEL WITH MAX FRONT AND BACK SLOPE OF 20% (REFER TO DRAINAGE PLAN SHEET)
- S2 V-CHANNEL WITH FRONT AND BACK SLOPE 20% (REFER TO DRAINAGE PLAN SHEET)



Huitt-Zollars, Inc.
Firm Registration No. F-761

* GRADING FOR BASE BID ALTERNATIVE 1. REFER TO DRAINAGE PLAN SHEET FOR BASE BID GRADING.

Work	Description	P.D. NO.	Action	Date

Rev.	Date	Description
03-10-2021 <td>03-10-2021 <td>Design file no.</td> </td>	03-10-2021 <td>Design file no.</td>	Design file no.
		Drawing code:

Designed by:	Checked by:
Drw. by: O. URTICA	Cltd. by: A. GALLEGOS
Reviewed by: R. MEDINA	

Lower Valley WATER DISTRICT

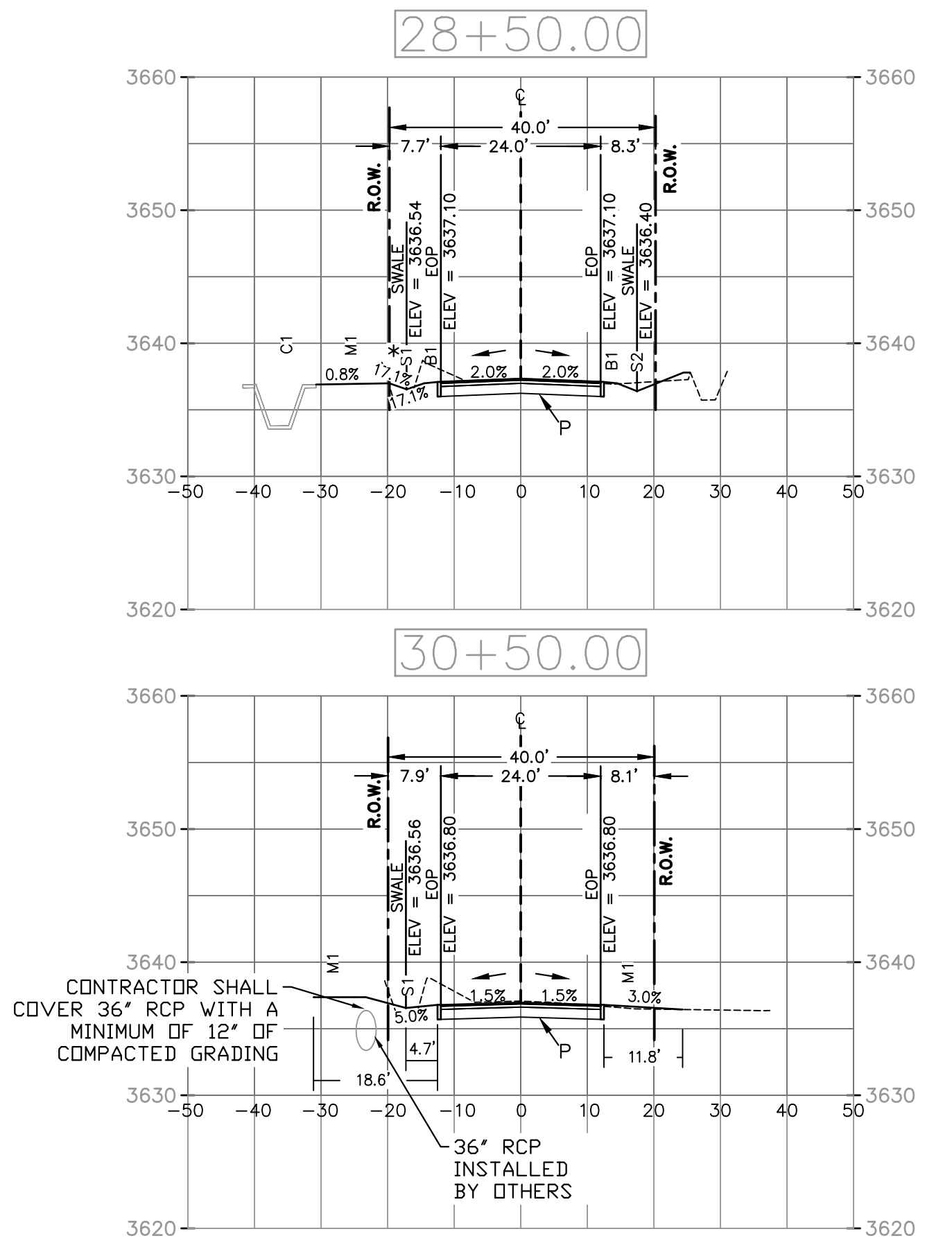
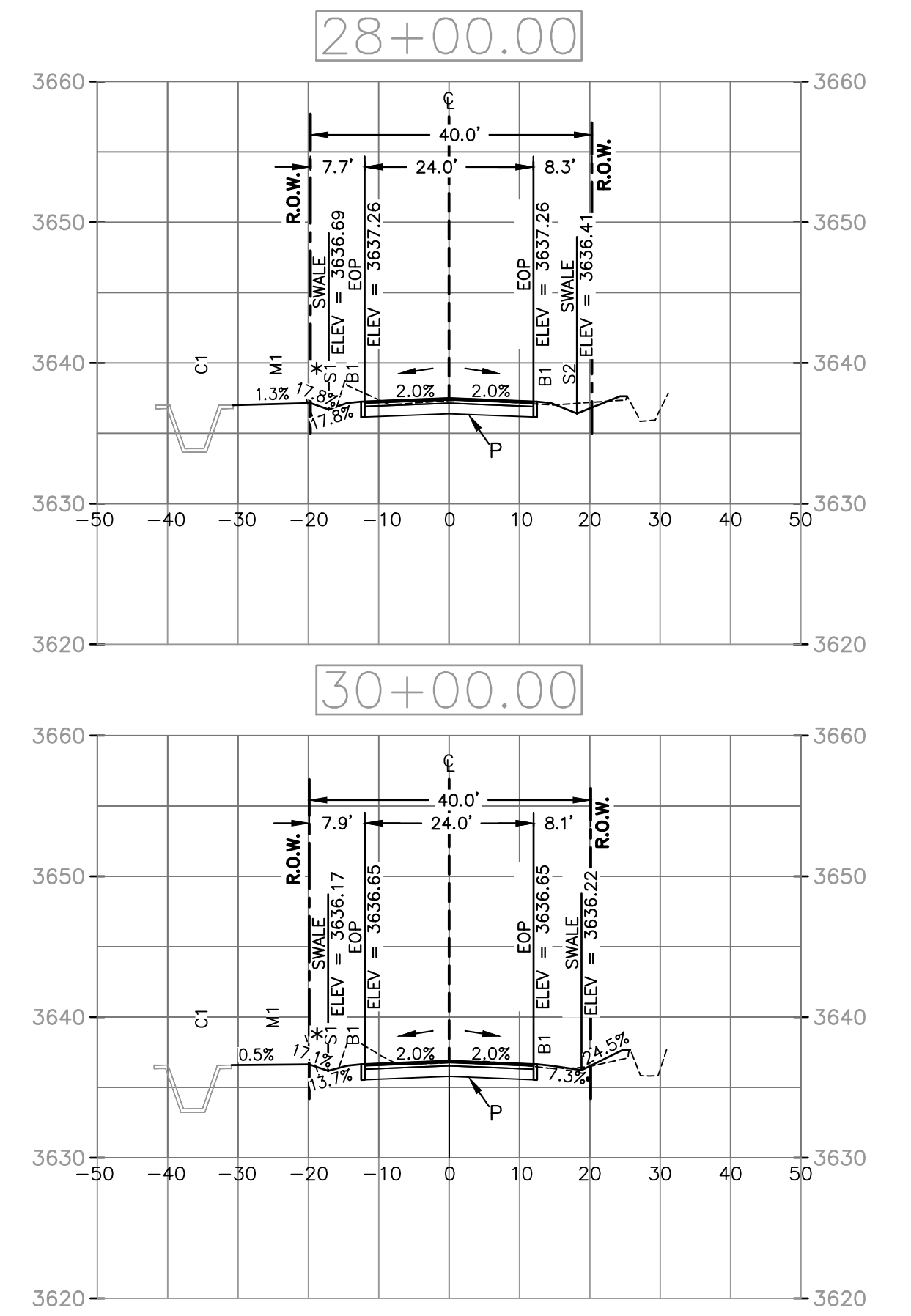
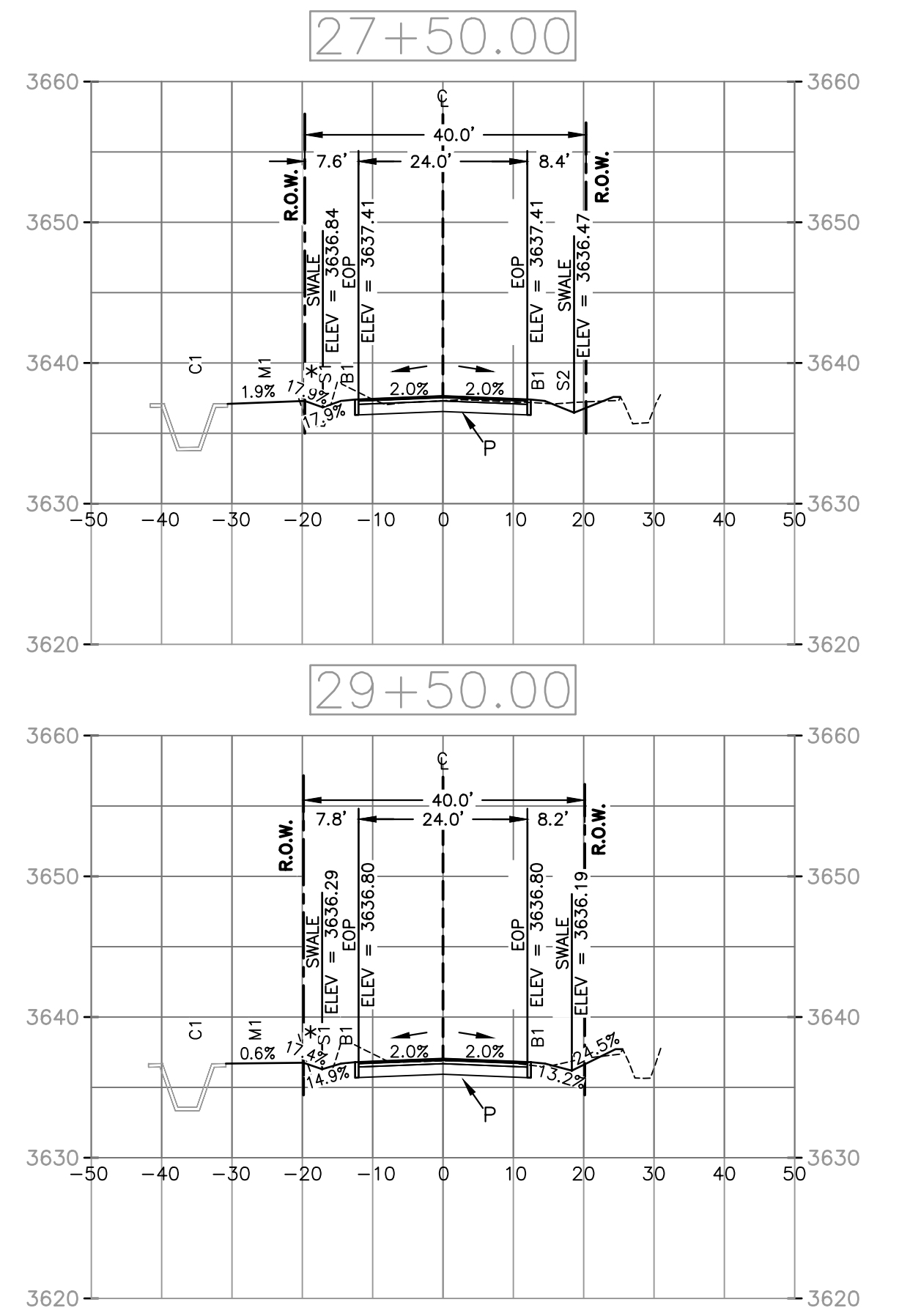
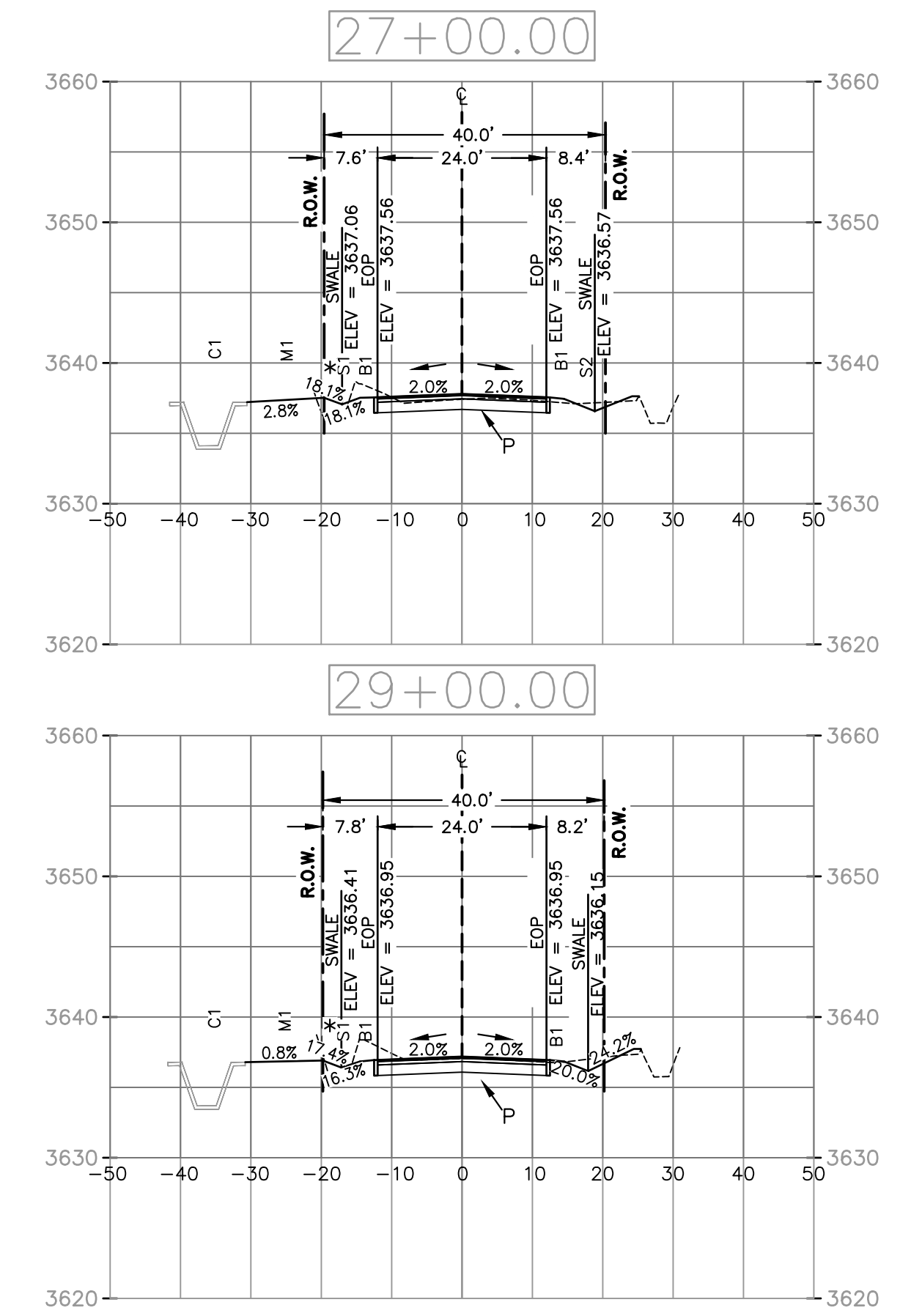
TOWN OF CLINT TEXAS

6907 Coates Peak, Suite 310
Brewer, Texas 77812-5822
935.997.4339
www.lvdwater.com

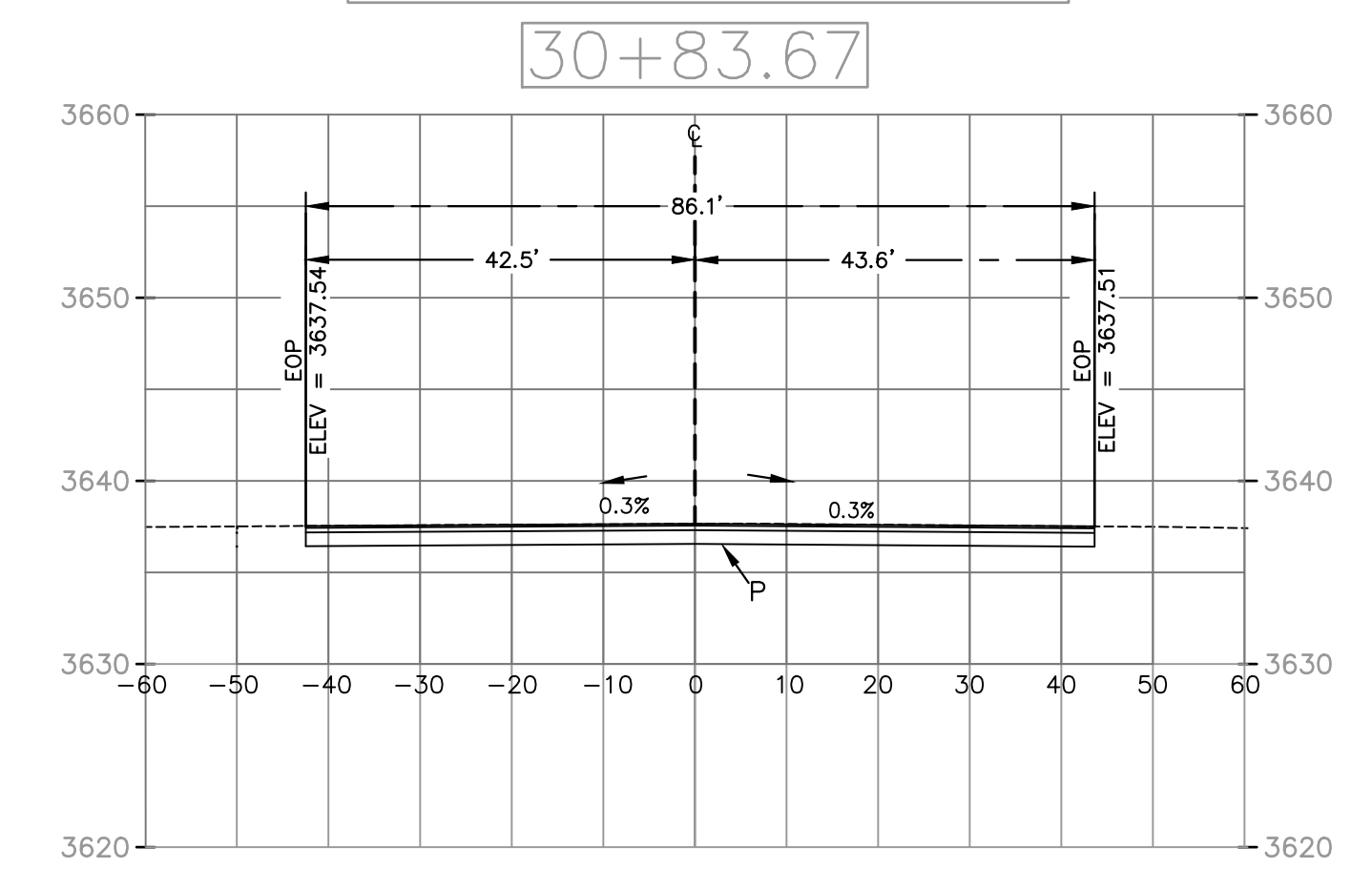
HUITT ZOLLARS

FENTER RD. RECONSTRUCTION
TOWN OF CLINT, TEXAS
GROSS SECTIONS
FROM STA 27+00.00 TO 30+65.56

Sheet reference number:
Sheet 17 of 29



SECTION A-A

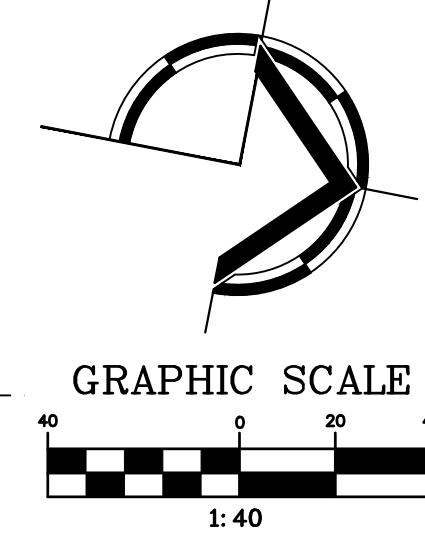
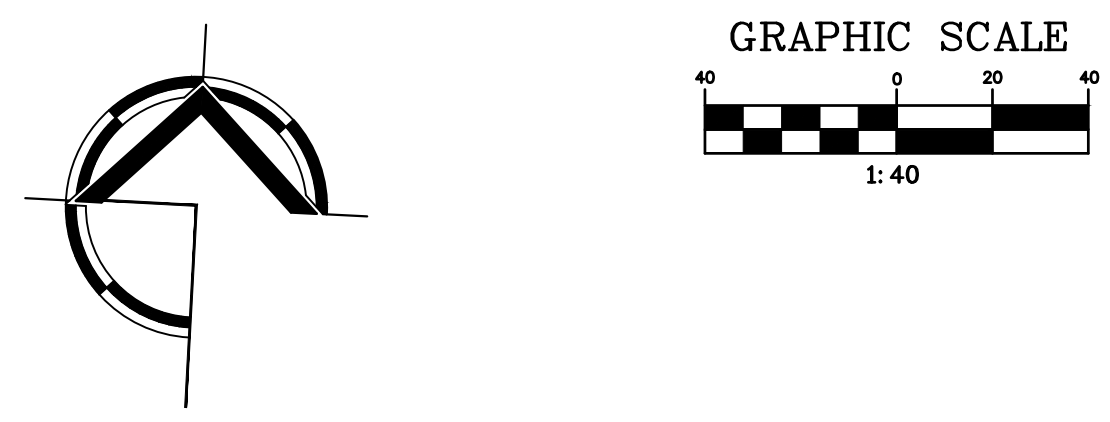
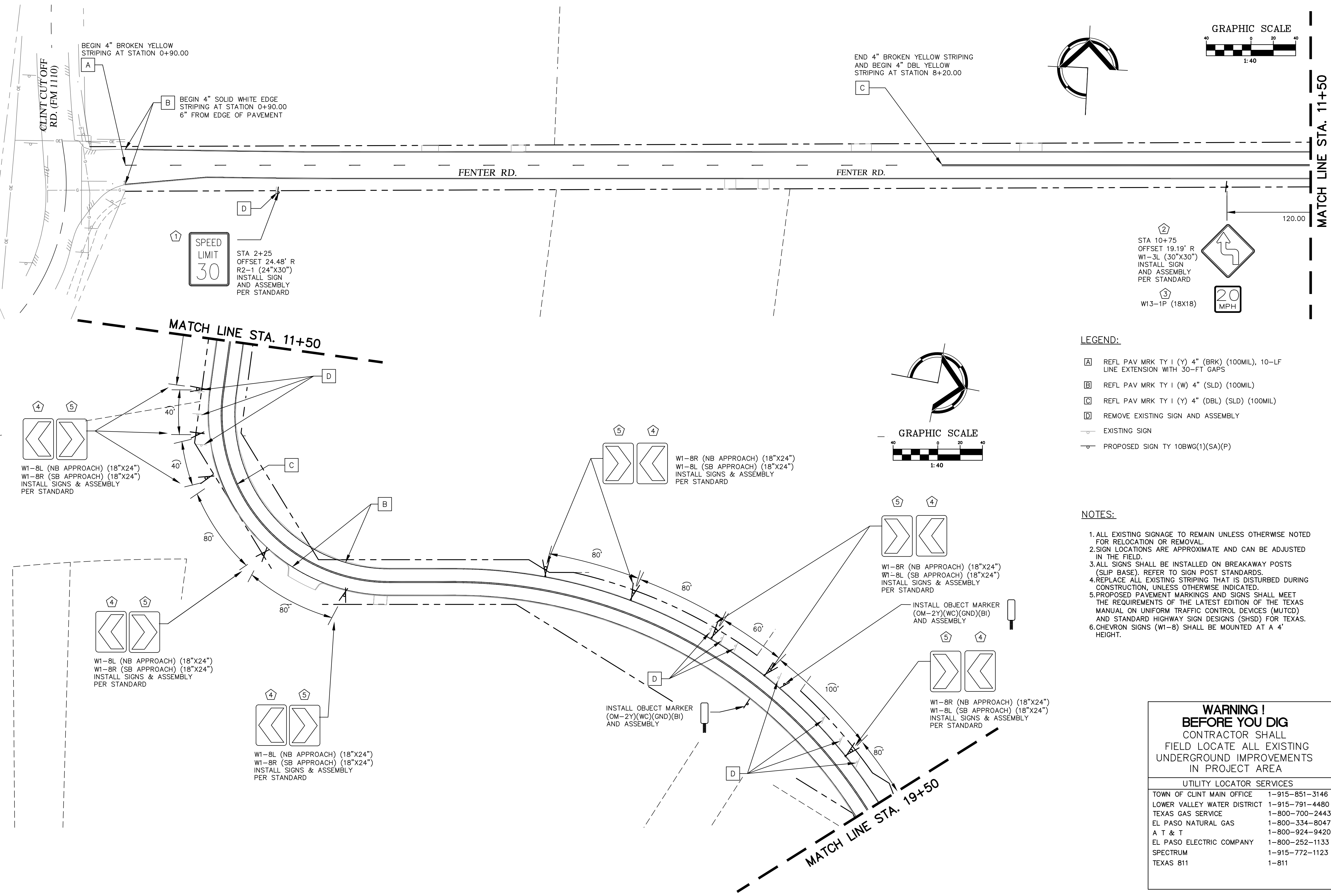


LEGEND:

- EXISTING GRADE
- PROPOSED GRADE
- ROW RIGHT OF WAY
- EOP EDGE OF PAVEMENT
- M1 MATCH TO EX. GRADE 25% MAX.
- B1 2' BENCH 5% MAX.
- D1 UNPAVED DRIVEWAY
- C1 PROPOSED CULVERT BY OTHERS
- A1 ASPHALT DRIVEWAY (REFER TO CIVIL DETAILS)
- P PAVEMENT SECTION (REFER TO CIVIL DETAILS)
- S1 V-CHANNEL WITH MAX FRONT AND BACK SLOPE OF 20% (REFER TO DRAINAGE PLAN SHEET)
- S2 V-CHANNEL WITH FRONT AND BACK SLOPE 20% (REFER TO DRAINAGE PLAN SHEET)

HA:\PROJ\066368\03 - FENTER RD. RECONSTRUCTION\10_CADD & BIM\10.1_AUTOCAD\SHEETS\18_630633801-355.dwg

HA PROVAL 03/26/2023 - FENTER RD. RECONSTRUCTION TO CAD. & BUA 10.1. AUTOCAD SHEETS 19. 03/26/2023 - STEP. LONG



LEGEND:

- REFL PAV MKR TY I (Y) 4" (BRK) (100MIL), 10-FT LINE EXTENSION WITH 30-FT GAPS
- REFL PAV MKR TY I (W) 4" (SLD) (100MIL)
- REFL PAV MKR TY I (Y) 4" (DBL) (SLD) (100MIL)
- REMOVE EXISTING SIGN AND ASSEMBLY
- EXISTING SIGN
- PROPOSED SIGN TY 10BWG(1)(SA)(P)

NOTES:

1. ALL EXISTING SIGNAGE TO REMAIN UNLESS OTHERWISE NOTED FOR RELOCATION OR REMOVAL.
2. SIGN LOCATIONS ARE APPROXIMATE AND CAN BE ADJUSTED IN THE FIELD.
3. ALL SIGNS SHALL BE INSTALLED ON BREAKAWAY POSTS (SLIP BASE). REFER TO SIGN POST STANDARDS.
4. REPLACE ALL EXISTING STRIPING THAT IS DISTURBED DURING CONSTRUCTION, UNLESS OTHERWISE INDICATED.
5. PROPOSED PAVEMENT MARKINGS AND SIGNS SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND STANDARD HIGHWAY SIGN DESIGNS (SHSD) FOR TEXAS.
6. CHEVRON SIGNS (W1-8) SHALL BE MOUNTED AT A 4' HEIGHT.

WARNING !
BEFORE YOU DIG

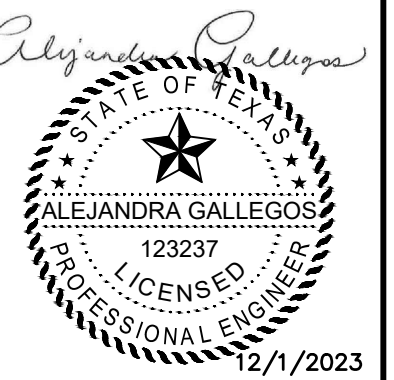
CONTRACTOR SHALL
FIELD LOCATE ALL EXISTING
UNDERGROUND IMPROVEMENTS
IN PROJECT AREA

UTILITY LOCATOR SERVICES

TOWN OF CLINT MAIN OFFICE	1-915-851-3146
LOWER VALLEY WATER DISTRICT	1-915-791-4480
TEXAS GAS SERVICE	1-800-700-2443
EL PASO NATURAL GAS	1-800-334-8047
A T & T	1-800-924-9420
EL PASO ELECTRIC COMPANY	1-800-252-1133
SPECTRUM	1-915-772-1123
TEXAS 811	1-811

MATCH LINE STA. 11+50

MATCH LINE STA. 19+50



Hull-Zollars, Inc.
Firm Registration No. F-761

Rev.	Date	Description	By	Date	By

Designed by:	R. BELTRAN	Checked by:	A. GALLEGOS	Drawing code:	
Drawn by:	R. BELTRAN	Reviewed by:	R. MEDINA	File name:	CLINT030323-2023.dwg
				Plot name:	CLINT030323-2023.dwg
				Plot scale:	1:1

TOWN OF
CLINT TEXAS

LOWER VALLEY
WATER DISTRICT

HULL ZOLLARS

6802 Coates Road, Suite 100
El Paso, Texas 79912-5827
915.851.0339
www.hullzollars.com

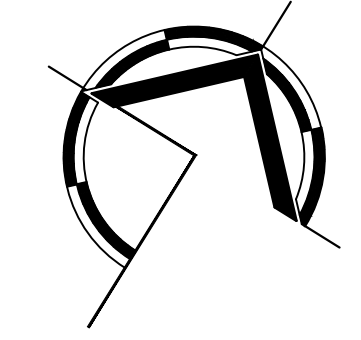
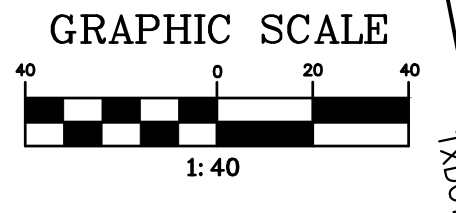
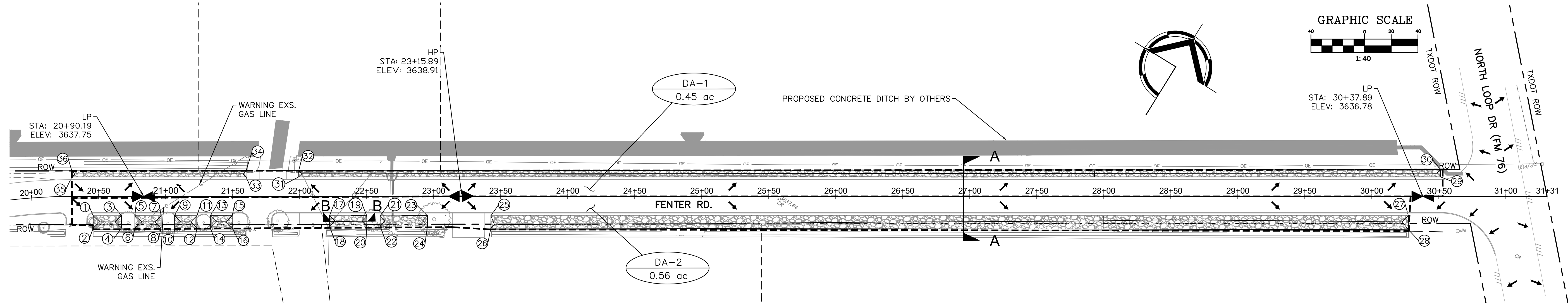
FENTER RD. RECONSTRUCTION
TOWN OF CLINT, TEXAS

PAVEMENT MARKING & SIGNING PLAN
STA. 0+00 TO STA. 19+50

Sheet reference number:
Sheet 18 of 29



Huitt-Zollars, Inc.
Firm Registration No. F-761

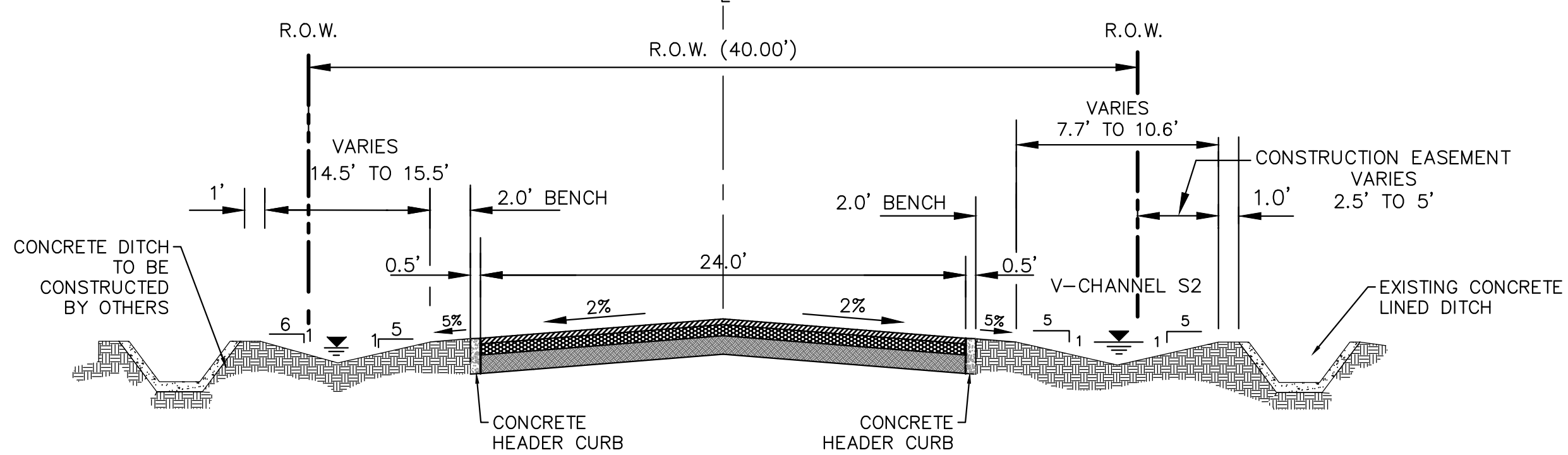


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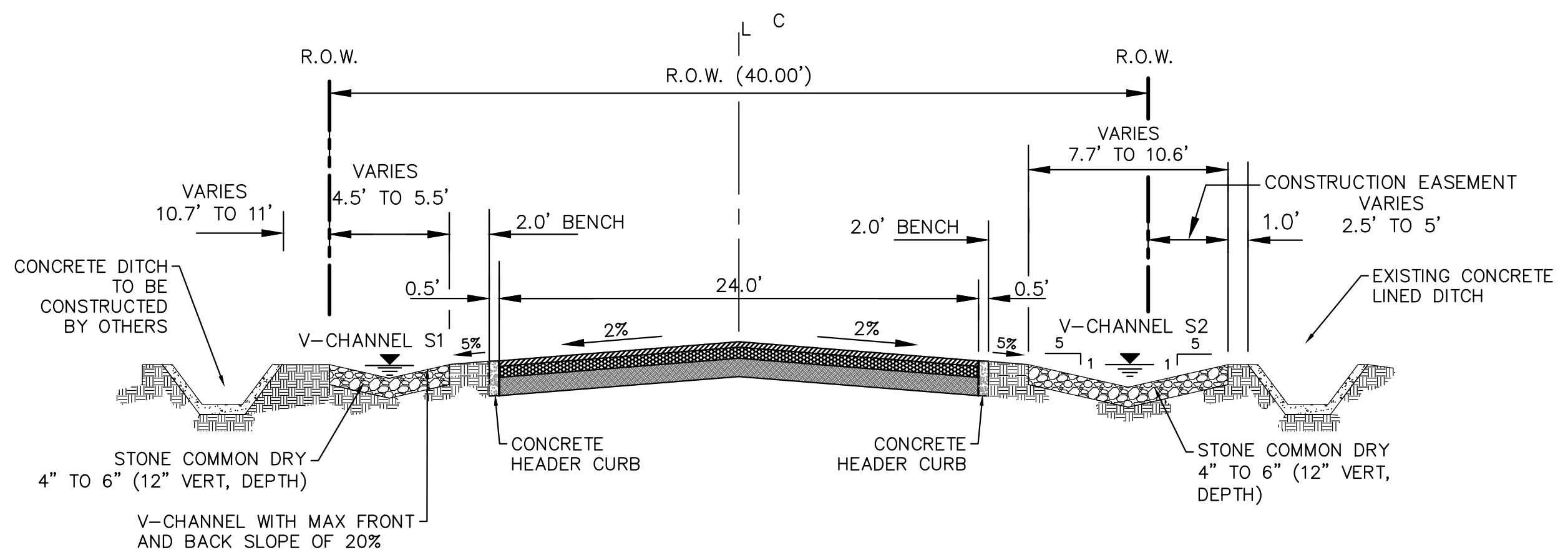
- REFER TO CROSS SECTION SHEETS 13 THROUGH 17 FOR ELEVATIONS AND SLOPES.
- PROPOSED SWALES WITH STONE COMMON DRY TO BE INCLUDED AS BASE BID 1 ALTERNATE 1. IF BASE BID 1 IS NOT APPROVED, CONTRACTOR SHALL GRADE PARKWAY AS SHOWN IN FENTER RD TYPICAL SECTION A-A (BASE BID 1) DETAIL IN THIS SHEET.
- CONTRACTOR SHALL VERIFY LOCATION OF EXISTING GAS LINES. A MINIMUM 1.5' COVER OVER EXISTING GAS LINES SHALL BE PROVIDED. GRADES FOR S1 AND S2 V-CHANNELS MAY BE MODIFIED TO PROVIDE THE REQUIRED COVER FROM STA 20+45 TO STA 22+30.

LEGEND:

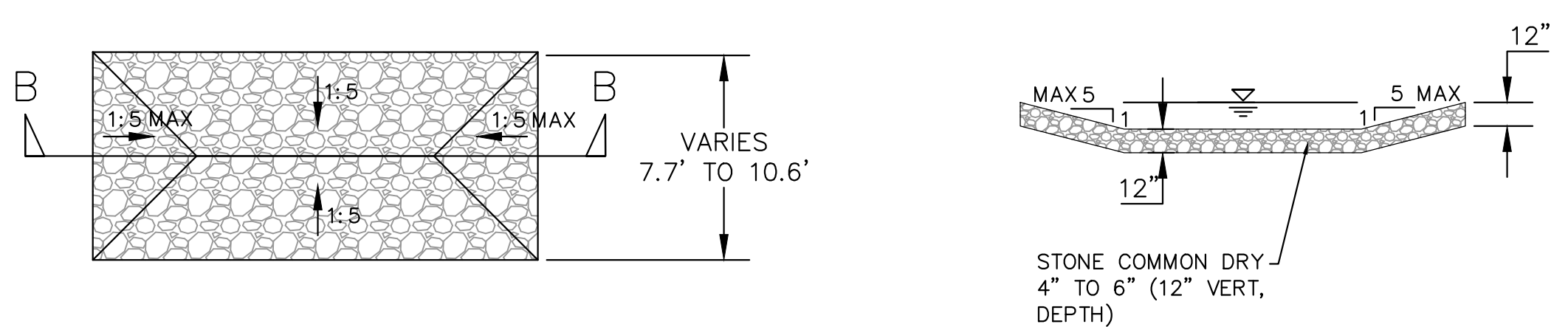
- W — EXISTING WATER LINE (WL)
- S — EXISTING SEWER LINE (SL)
- G — EXISTING GAS LINE (G)
- OE — EXISTING OVERHEAD ELECTRIC
- COMM — EXISTING COMMUNICATION LINE
- ROW — EXISTING ROW LINE
- ◀▶ HIGH POINT (HP)
- ▶ DRAINAGE FLOW
- DRAINAGE AREA
- ▶ LOW POINT (LP)



FENTER RD TYPICAL SECTION A-A (BASE BID 1)
STATION 20+30 TO 30+40



FENTER RD TYPICAL SECTION A-A (BASE BID 1 ALTERNATE 1)
STATION 20+30 TO 30+51.22



SWALE TYPICAL SECTION B-B (BASE BID 1 ALTERNATE 1)
STATION 20+30 TO 30+51.22

POINT TABLE			
POINT #	DESCRIPTION	NORTHING	EASTING
1	D1	10594453.10	464914.11
2	D2	10594445.41	464918.97
3	D3	10594464.30	464931.95
4	D4	10594456.61	464936.79
5	D5	10594469.65	464940.41
6	D6	10594461.94	464945.25
7	D7	10594480.07	464957.06
8	D8	10594472.40	464961.89
9	D9	10594485.43	464965.50
10	D10	10594477.73	464970.34
11	D11	10594494.30	464979.67
12	D12	10594486.61	464984.51
13	D13	10594499.66	464988.11
14	D14	10594491.95	464992.95
15	D15	10594508.31	465001.94
16	D16	10594500.62	465006.77
17	D17	10594546.86	465063.45
18	D18	10594540.29	465067.59
19	D19	10594561.66	465087.02
20	D20	10594555.22	465091.11
21	D21	10594566.95	465095.45
22	D22	10594560.42	465099.57
23	D23	10594585.71	465125.32
24	D24	10594579.30	465129.38
25	D25	10594610.90	465165.45

EXISTING CONDITIONS								
Drainage Areas	Area (acres)	Composite C-Value	Q5yr	Storage, Qt5-yr (2 in) + 10-yr silt (ac-ft)	Emergency Storage, (ac-ft)	Total Qt5yr (ac-ft)	Storage (ac-ft)	Typ. Storage, 100-yr (ac-ft)
DA-1	0.38	0.79	0.73	0.61	0.18	0.79	none	1.10
DA-2	0.55	0.79	1.05	0.88	0.26	1.15	none	1.14
TOTAL VOLUME						1.94		

PROPOSED CONDITIONS (BASE BID 1 ALTERNATE 1)								
Drainage Areas	Area (acres)	Composite C-Value	Q5yr	Storage, Qt5-yr (2 in) + 10-yr silt (ac-ft)	Emergency Storage, (ac-ft)	Total Qt5yr (ac-ft)	Proposed Storage (ac-ft)	Typ. Storage, 100-yr (ac-ft)
DA-1	0.45	0.76	0.83	0.70	0.21	0.91	0.03	1.11
DA-2	0.56	0.68	0.91	0.76	0.23	0.98	0.07	1.12
TOTAL VOLUME						1.89	0.10	

POINT TABLE			
POINT #	DESCRIPTION	NORTHING	EASTING
26	D26	10594603.08	465170.29
27	D27	10594974.91	465745.25
28	D28	10594966.13	465750.76
29	D29	10595012.20	465750.11
30	D30	10595016.79	465747.22
31	D31	10594559.19	465028.55
32	D32	10594563.09	465026.11
33	D33	10594538.32	464995.30
34	D34	10594542.19	464992.87
35	D35	10594469.19	464885.19
36	D36	10594472.95	464882.82

WARNING!
BEFORE YOU DIG
CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UNDERGROUND IMPROVEMENTS IN PROJECT AREA

UTILITY LOCATOR SERVICES

TOWN OF CLINT MAIN OFFICE	1-915-851-3146
LOWER VALLEY WATER DISTRICT	1-915-791-4480
TEXAS GAS SERVICE	1-800-700-2443
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A T & T	1-800-924-9420
EL PASO ELECTRIC COMPANY	1-800-252-1133
SPECTRUM TEXAS 811	1-915-772-1123
	1-811

Date	Rev.	Description

Designed by: R. BELTRAN
Drawn by: R. BELTRAN
Checked by: A. GALLEGOS
Reviewed by: R. MEDINA

Date: 03-10-2021
Design file no.
Drawing code:
File name: F-761-03-10-2021.dwg
Plot scale: 1:1

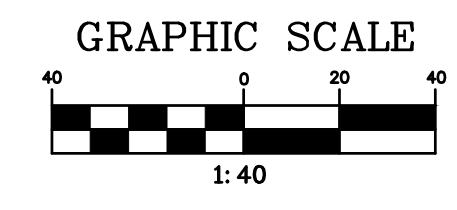
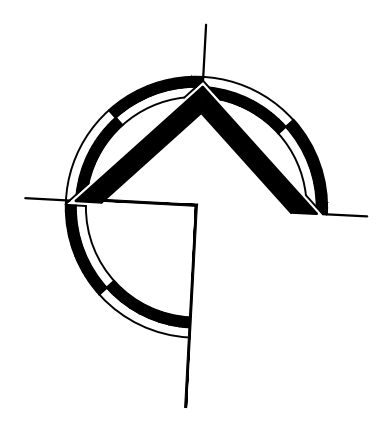
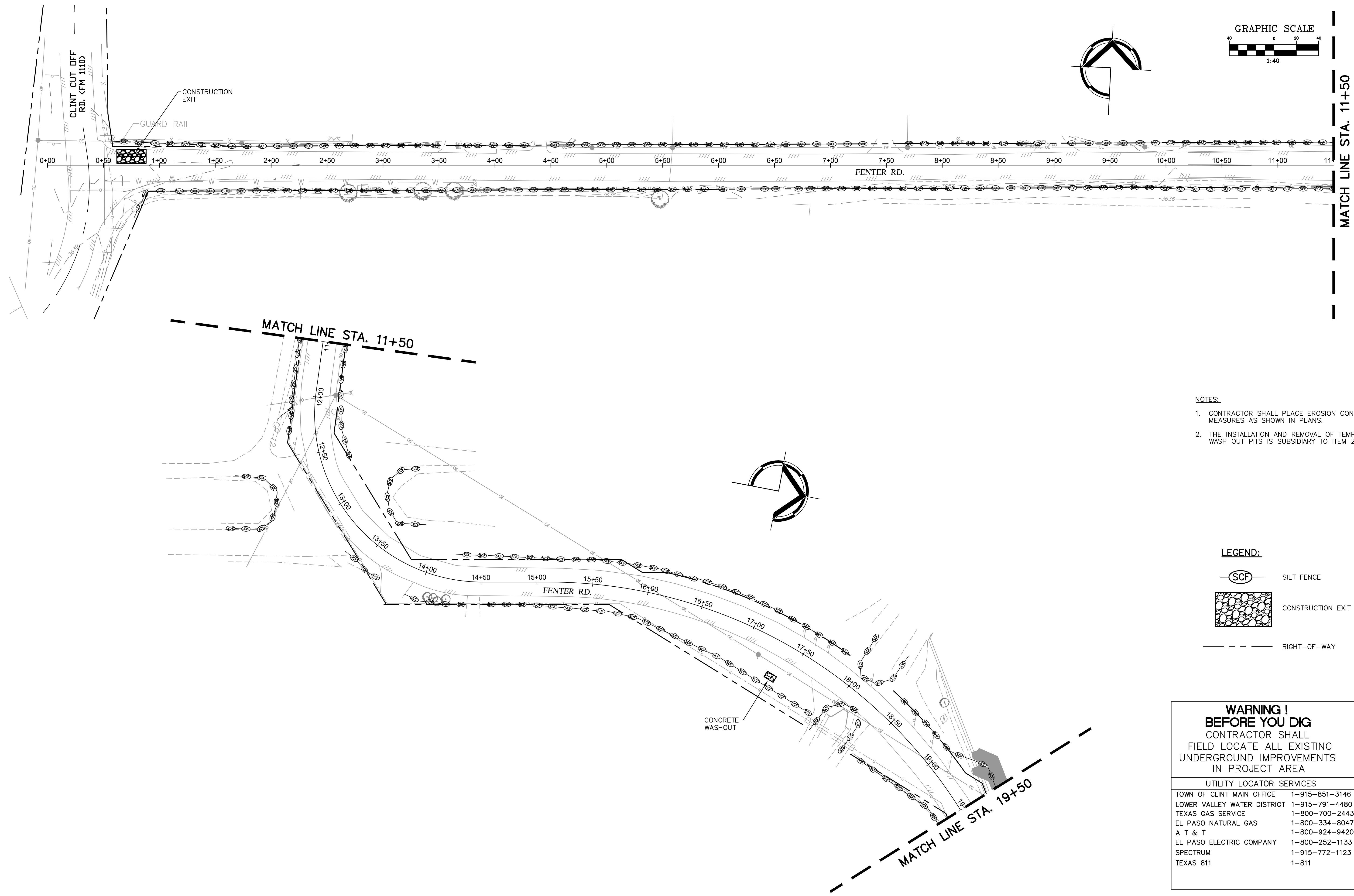
TOWN OF CLINT TEXAS
Lower Valley Water District
HUITT ZOLLARS

FENTER RD. RECONSTRUCTION
TOWN OF CLINT, TEXAS

DRAINAGE PLAN

Sheet reference number:
Sheet 20 of 29

HA:\PROJ\636636\03 - FENTER RD. RECONSTRUCTION TO CADD & BUA\10.1 AUTOCAD SHEETS\23. E20633603-5\WP_LDWG



MATCH LINE STA. 11+50

MATCH LINE STA. 11+50

MATCH LINE STA. 19+50

- NOTES:**
- CONTRACTOR SHALL PLACE EROSION CONTROL MEASURES AS SHOWN IN PLANS.
 - THE INSTALLATION AND REMOVAL OF TEMPORARY WASH OUT PITS IS SUBSIDIARY TO ITEM 2.

LEGEND:

- SILT FENCE
- CONSTRUCTION EXIT
- RIGHT-OF-WAY

**WARNING !
BEFORE YOU DIG**

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IN PROJECT AREA

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Huitt-Zollars, Inc.
Firm Registration No. F-761

Work	Date	P.D. NO.	Action

Rev.	Date	Design file no.	Drawing code
1	11-16-2022	A. GALLEGOS	

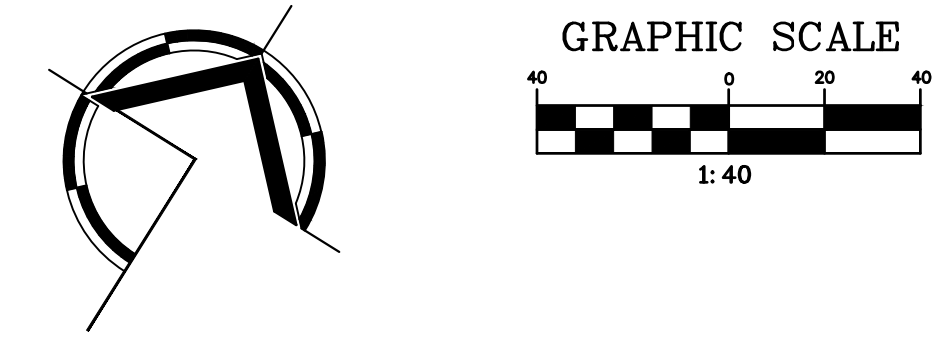
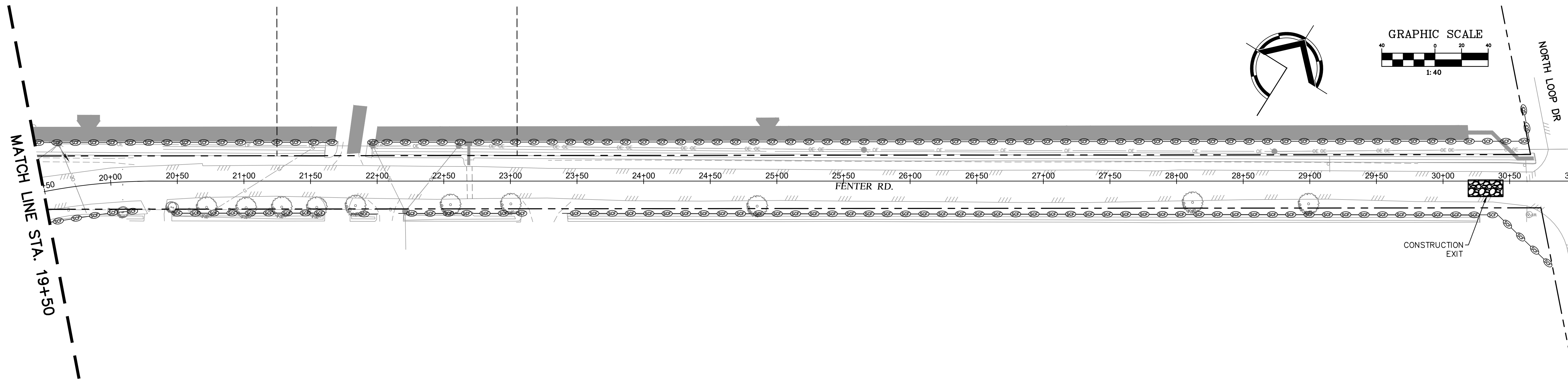
Lower Valley WATER DISTRICT
TOWN OF CLINT TEXAS

HUITT ZOLLARS
6802 Cross Creek Blvd, Suite 100
El Paso, Texas 79912-5822
915.897.4339
www.huittzollars.com

FENTER RD. RECONSTRUCTION
TOWN OF CLINT, TEXAS

STORM WATER POLLUTION
PREVENTION PLAN
SHEET 1 OF 3

Sheet reference number:
Sheet 21 of 29



Huitt-Zollars, Inc.
Firm Registration No. F-761

Work	Description	P.D. No.	Action	Date

NOTES:

- CONTRACTOR SHALL PLACE EROSION CONTROL MEASURES AS SHOWN IN PLANS.
- THE INSTALLATION AND REMOVAL OF TEMPORARY WASH OUT PITS IS SUBSIDIARY TO ITEM 2.

Designed by: R. BELTRAN	Drawn by: R. BELTRAN	Checked by: A. GALLEGOS	Date: 11-16-2022
Reviewed by: R. MEDINA	Design file no.:	Drawing code:	Rev. no.: 12/01/2023
TOWN OF CLINT TEXAS <small>6502 Coates Peak, Suite 310 El Paso, Texas 79912-5827 915.587.4339 www.clinttx.gov</small>			PROJ. NO.: 23061810 DATE: 11/16/2022 SCALE: 1:1
Lower Valley WATER DISTRICT HUITT ZOLLARS			Rev.: 11-16-2022 Design file no. Drawing code: Rev. no.: 12/01/2023 Proj. no.: 23061810 Plot scale: 1:1

LEGEND:

- SILT FENCE
- CONSTRUCTION EXIT
- RIGHT-OF-WAY

WARNING !
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 IN PROJECT AREA

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TEXAS 811	1-811

FENTER RD. RECONSTRUCTION
 TOWN OF CLINT, TEXAS
 STORM WATER POLLUTION
 PREVENTION PLAN
 SHEET 2 OF 3

Sheet
 reference
 number:

SITE DESCRIPTION

PROJECT NAME AND LIMITS: FENTER ROAD RECONSTRUCTION
FROM FM 1110 TO FM 76 (NORTH LOOP DR), APPROXIMATELY 3,000 FT

PROJECT DESCRIPTION: THE PROJECT INCLUDES PAVEMENT RECONSTRUCTION, HEADER CURB, DRAINAGE IMPROVEMENTS, TREE REMOVAL, SIGNING, AND STRIPING.

EXISTING CONDITIONS: ASPHALT PAVEMENT STREET WITH TREES ADJACENT TO THE ROADWAY AND CONCRETE IRRIGATION CHANNELS ON BOTH SIDES OF FENTER RD FROM THE SALITRAL LATERAL TO NORTH LOOP DR.

MAJOR SOIL DISTURBING ACTIVITIES: DISTURBING ACTIVITIES INCLUDE THE REMOVAL OF ASPHALT AND BASE; EXCAVATING AND REMOVING UNSUITABLE SOIL; CLEARING AND GRUBBING; FILLING AND EROSION CONTROL MEASURES.

TOTAL PROJECT AREA: 2.91 ACRES

TOTAL AREA TO BE DISTURBED: 2.91 ACRES

WEIGHTED RUNOFF COEFFICIENT (AFTER CONSTRUCTION): 0.73

EXISTING CONDITION OF SOIL AND VEGETATIVE COVER AND % OF EXISTING VEGETATIVE COVER: EXISTING CONDITIONS WITHIN THE LIMITS OF THE PROJECT INCLUDE ASPHALT PAVEMENT AND NATIVE VEGETATION THAT COVERS APPROXIMATELY 15 PERCENT.

NAME OF RECEIVING WATERS: RIO GRANDE RIVER

EROSION AND SEDIMENT CONTROL

SOIL STABILIZATION PRACTICES

- _____ TEMPORARY SEEDING
- _____ PERMANENT PLANTING, SODDING, OR SEEDING
- _____ MULCHING
- _____ SOIL RETENTION BLANKET
- _____ BUFFER ZONES
- _____ PRESERVATION OF NATURAL RESOURCES

OTHER: _____

STRUCTURAL PRACTICES:

- SILT FENCES
- _____ HAY BALES
- _____ ROCK BERMS
- _____ DIVERSION, INTERCEPTOR, OR PERIMETER DIKES
- _____ DIVERSION, INTERCEPTOR, OR PERIMETER SWALES
- _____ DIVERSION DIKE AND SWALE COMBINATION
- _____ PIPE SLOPE DRAINS
- _____ CONCRETE FLUMES
- ROCK BEDDING AT CONSTRUCTION EXIT
- _____ TIMBER MATTING AT CONSTRUCTION EXIT
- _____ CHANNEL LINERS
- _____ SEDIMENT TRAPS
- _____ SEDIMENT BASINS
- _____ STORM INLET SEDIMENT TRAP
- _____ STONE OUTLET STRUCTURES
- _____ CURBS AND GUTTERS
- _____ STORM DRAINS
- _____ VELOCITY CONTROL DEVICES
- _____ VEGETATED SWALES & NATURAL DEPRESSIONS

OTHER: _____

NARRATIVE - SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES:

1. INSTALL TEMPORARY TRAFFIC CONTROL.
2. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROLS.
3. DEMOLITION OF EXISTING PAVEMENT.
4. CONSTRUCT PROPOSED PAVEMENT, HEADER CURB AND DRY STONE TO PERIMETER SWALES.
5. INSTALL PROPOSED STRIPING, REMOVE AND INSTALL SIGNS.
6. CLEAN UP PROJECT SITE.

BEST MANAGEMENT PRACTICES CONTROLS

- I. **WASTE MATERIALS:**
ALL WASTE MATERIALS, INCLUDING CONSTRUCTION DEBRIS, SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. NO CONSTRUCTION WASTE MATERIAL SHALL BE BURIED ON SITE. THE TRANSIT DUMPSTER SHALL COMPLY WITH ORDINANCE 18.52.010 (ENCLOSURE AND REMOVAL OF WASTE MATERIALS DURING CONSTRUCTION). THE DUMPSTER SHALL BE EMPTIED ON A MONTHLY BASIS AS A MINIMUM OR AS NECESSARY, AND THE TRASH SHALL BE HAULED TO A LICENSED LANDFILL. DUMPSTERS REMOVED FROM SITE SHALL BE COVERED TO CONTAIN WASTE WHILE IN TRANSIT.
- II. **HAZARDOUS WASTE:**
AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES SHALL BE CONSIDERED HAZARDOUS: PAINT, ACIDS FOR CLEANING MASONRY SURFACES, CLEANING SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SPILL STABILIZATION, CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS, THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION AND CONTACT THE FIRE DEPT. AND TCEQ.
- III. **SANITARY WASTE:**
ALL SANITARY WASTE SHALL BE COLLECTED FROM THE CONSTRUCTION PORTABLE UNITS AS NECESSARY OR AS REQUIRED, BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR. ALL WASTE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- IV. **SPILL PREVENTION:**
THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURES OF MATERIALS TO STORM WATER RUNOFF.
- V. **GOOD HOUSEKEEPING:**
A. STORE ONLY ENOUGH PRODUCTS REQUIRED TO DO THE JOB
B. NEATLY STORE MATERIALS ON-SITE IN AN ORDERLY MANNER
C. KEEP PRODUCTS IN THEIR ORIGINAL CONTAINER
D. DO NOT MIX SUBSTANCES WITH ONE ANOTHER, UNLESS OTHERWISE RECOMMENDED BY THE MANUFACTURER
E. USE ENTIRE CONTENTS OF A PRODUCT BEFORE DISPOSING THE CONTAINER
F. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL
- VI. **HAZARDOUS PRODUCTS:**
PRACTICES USED TO REDUCE RISKS:
A. KEEP PRODUCTS IN THEIR ORIGINAL CONTAINER IF AT ALL POSSIBLE
B. RETAIN ORIGINAL LABELS, PRODUCT INFORMATION AND MATERIAL SAFETY DATA SHEETS (MSDS)
C. DISPOSE SURPLUS PRODUCT IN ACCORDANCE WITH MANUFACTURER'S OR LOCAL & STATE RECOMMENDED METHODS
- VII. **PETROLEUM PRODUCTS:**
ALL ON-SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ON-SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.
- VIII. **SPILL CONTROL PRACTICES:**
A. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES:
B. MATERIALS AND EQUIPMENT NECESSARY FOR CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE:
C. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY
D. SPILL AREA SHALL BE WELL VENTILATED AND APPROPRIATE CLOTHING WILL BE WORN:
E. ANY SPILL SHALL BE REPORTED TO THE APPROPRIATE GOVERNMENTAL AGENCY
F. MEASURES SHALL BE TAKEN TO PREVENT A SPILL FROM REOCCURRING
- IX. **MAINTENANCE AND INSPECTION PROCEDURES:**
ALL POLLUTION PREVENTION MEASURES SHALL BE INSPECTED AT LEAST ONCE A MONTH OR WITHIN 24-HOURS PRIOR TO ANTICIPATED STORM EVENT AND FOLLOWING A STORM EVENT OF 0.5 INCHES OR MORE. INSPECTION IN FINAL STABILIZED AREAS OR DURING ARID PERIODS WILL BE CONDUCTED MONTHLY, BEST MANAGEMENT PRACTICES AND POLLUTION CONTROL

Date	Rev.	Description	Mark

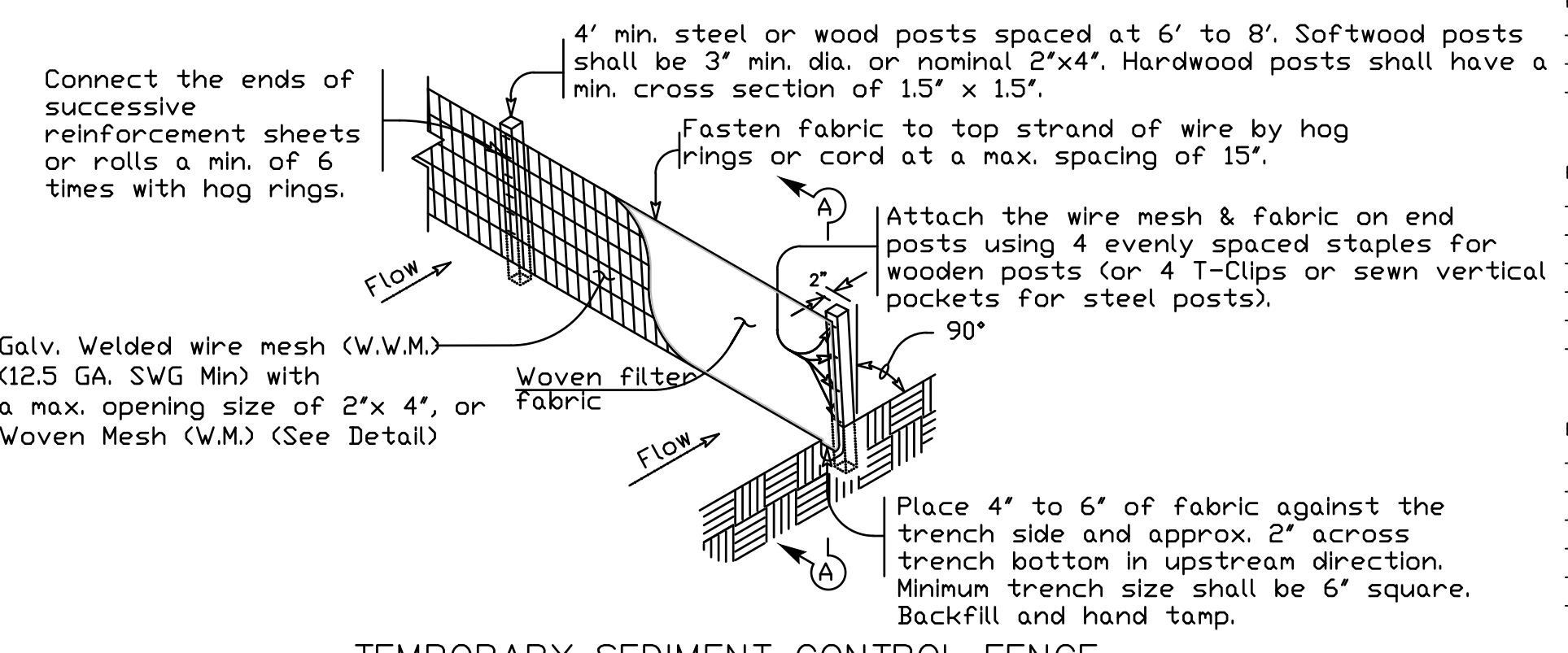
Date	03-10-2021	Rev.	
Design	File no.		
Checked by	A. GALLEGOS	Drawing code:	
Designed by	E. MEDINA	File name:	
		Plot scale:	1:1

DESIGNED BY: E. MEDINA
CHECKED BY: A. GALLEGOS

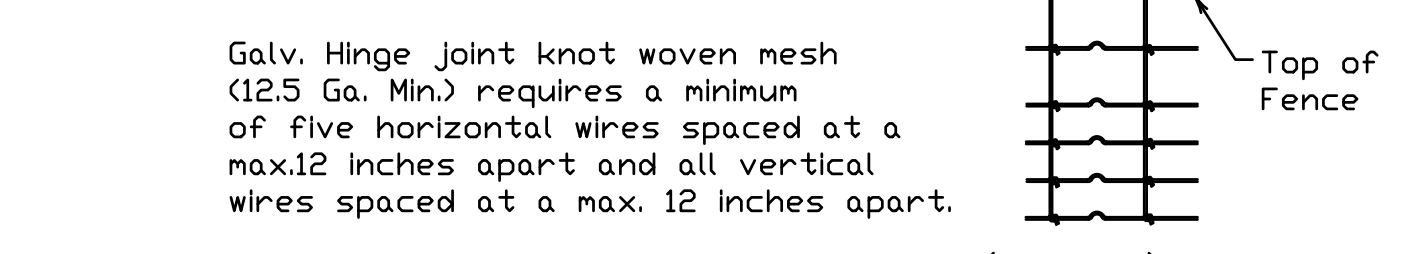
602 Coates Peak, Suite 310
Bldg. B, Texas 77082-5202
915.509.4339
www.huitt-zollars.com

Lower Valley WATER DISTRICT
TOWN OF CLINT TEXAS

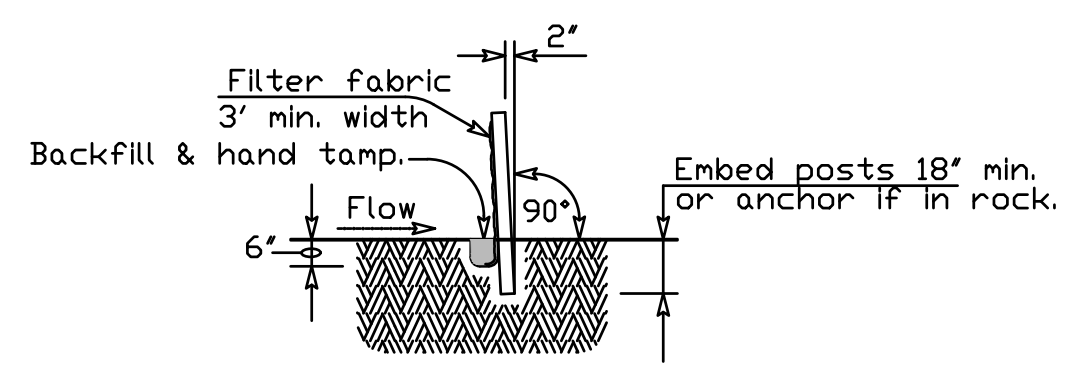
HUITT ZOLLARS



TEMPORARY SEDIMENT CONTROL FENCE



Hinge Joint Knot Woven Mesh (Option)



SECTION A-A

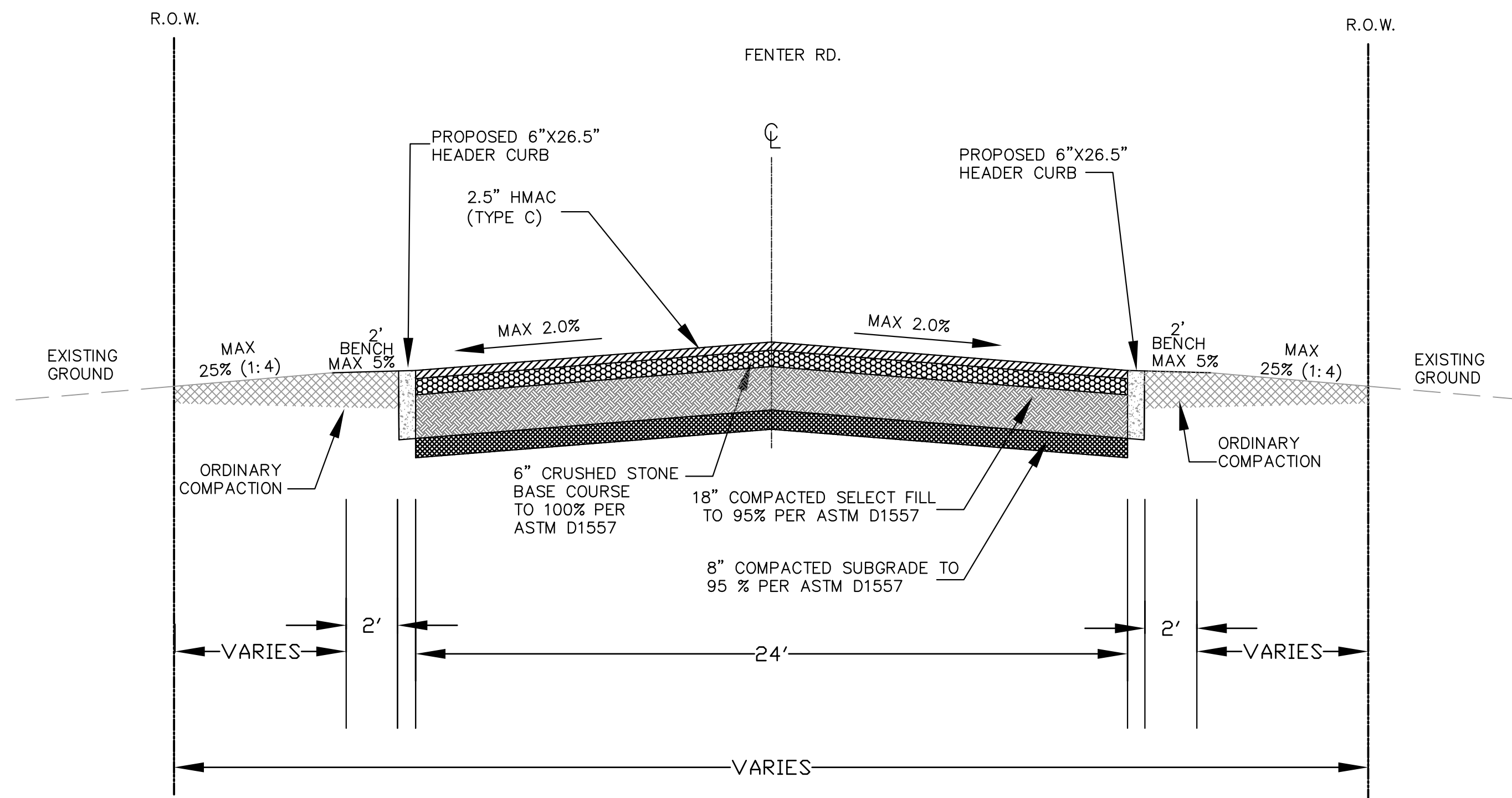
SEDIMENT CONTROL FENCE USAGE GUIDELINES

A sediment control fence may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A 2 year storm frequency may be used to calculate the flow rate to be filtered. Sediment control fence should be sized to filter a max. flow through rate of 100 GPM/FT². Sediment control fence is not recommended to control erosion from a drainage area larger than 2 acres.

FENTER RD. RECONSTRUCTION
TOWN OF CLINT, TEXAS
STORM WATER POLLUTION PREVENTION PLAN NOTES
SHEET 3 OF 3

Sheet reference number:

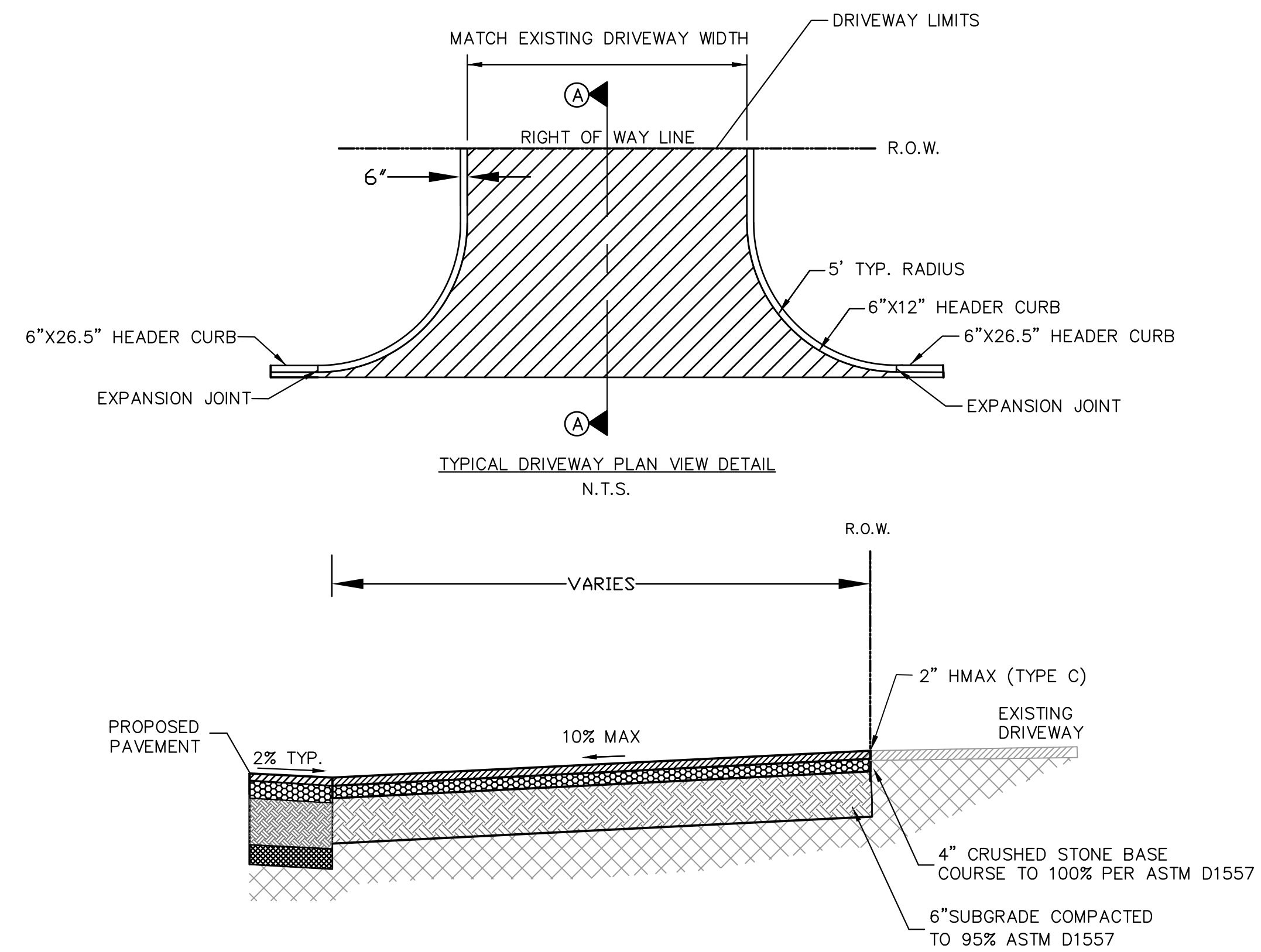
HA:\PROJ\13063536.03 - FENTER RD. RECONSTRUCTION TO CADD & BUA\10.1 AUTOCAD SHEETS\25. EROSION CONTROL\3001-3010.dwg



NOTES:

- REFER TO DRAINAGE PLAN SHEETS FOR TYPICAL CROSS SECTION FROM STA 20+30 TO 30+51.22
- SEAL ALL JOINTS. THIS SHALL BE SUBSIDIARY TO PAVEMENT INSTALLATION.
- APPLY TACK COAT AT A RATE OF 0.20 GAL/SY AS INDICATED IN PAVEMENT JUNCTION DETAIL IN THIS SHEET.

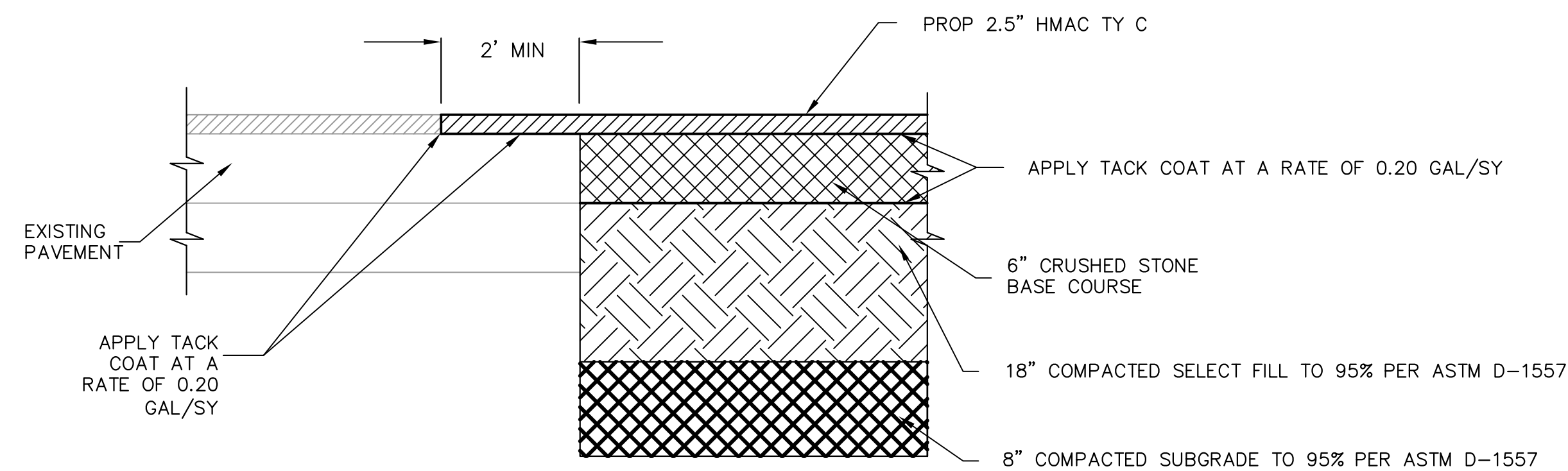
TYPICAL CROSS SECTION
NTS



NOTES:

- SEAL ALL JOINTS. THIS SHALL BE SUBSIDIARY TO PAVEMENT INSTALLATION.

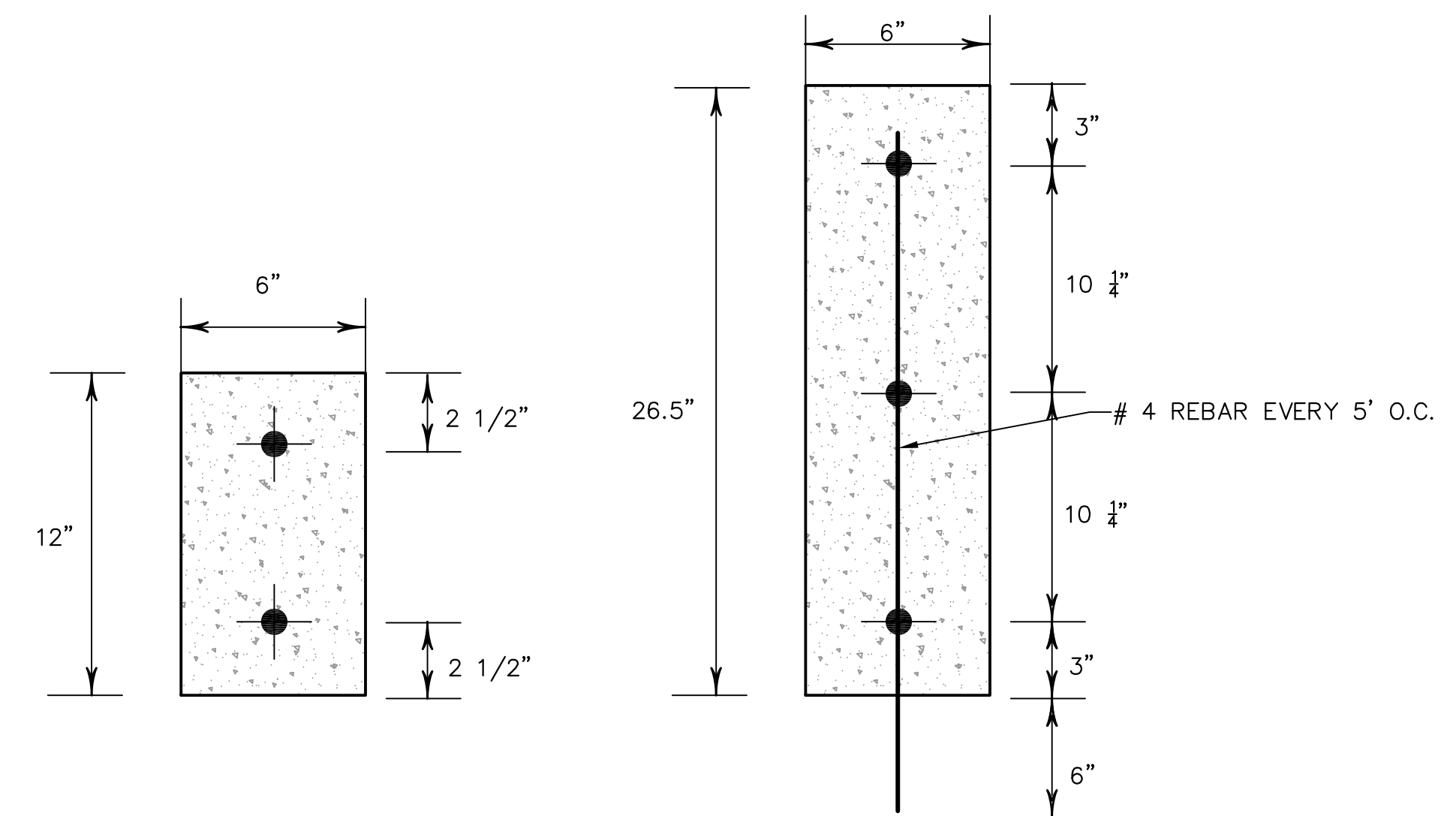
TYPICAL ASPHALT DRIVEWAY
SECTION A-A
N.T.S.



NOTES:

- ROLL AND/OR HEAT TO CREATE SMOOTH TRANSITION.

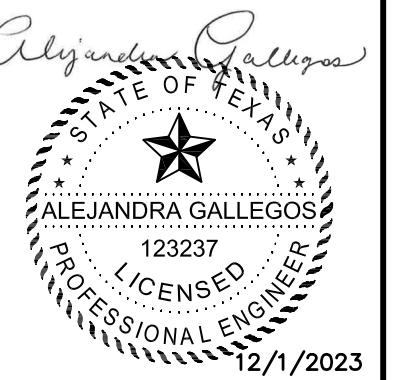
PAVEMENT JUNCTION
NTS



NOTES:

- HEADER CURBS SHALL BE 3,000 PSI CONCRETE STRENGTH AT 28 DAYS.
- HEADER CURBS HAND POURED AND PLACED SHALL INCLUDE:
 - (A) 2 CONTINUOUS #4 REBARS FOR 12 IN HEADER CURBS AND 3 CONTINUOUS #4 REBAR WITH VERTICAL #4 REBAR SPACED AT 5 O.C. FOR 26.5" HEADER CURB.
 - (B) WITH 1/2 INCH EXPANSION JOINTS EVERY 20.0 FEET AND CONTROL JOINTS EVERY 5.0 FEET, AND A BROOM FINISH.
- SUBGRADE UNDER ALL PROPOSED HEADER CURB MUST BE FORMED AND COMPACTED TO 95% PER ASTM D1557.

PROPOSED HEADER CURB
NTS



Huitt-Zollars, Inc.
Firm Registration No. F-761

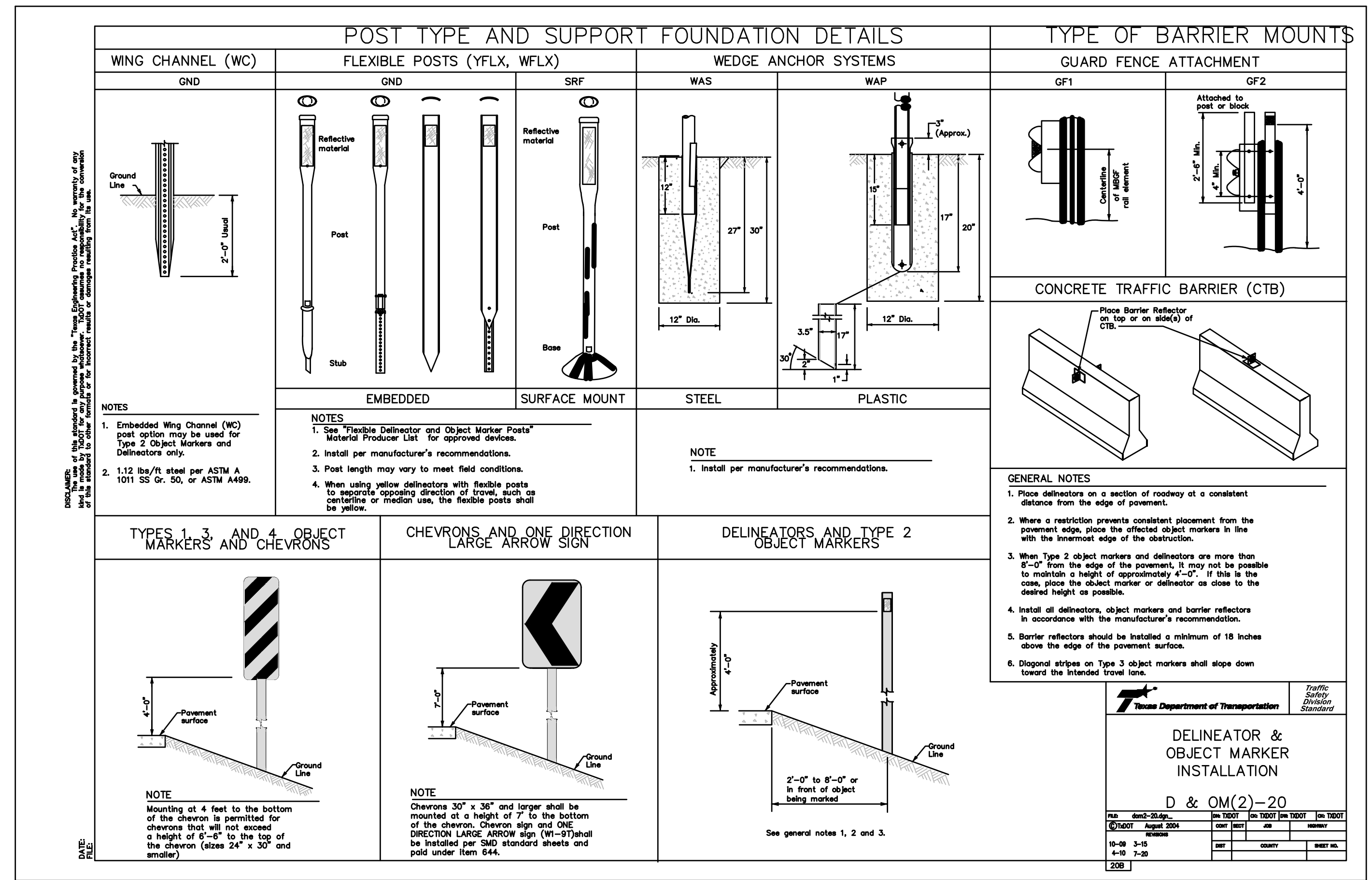
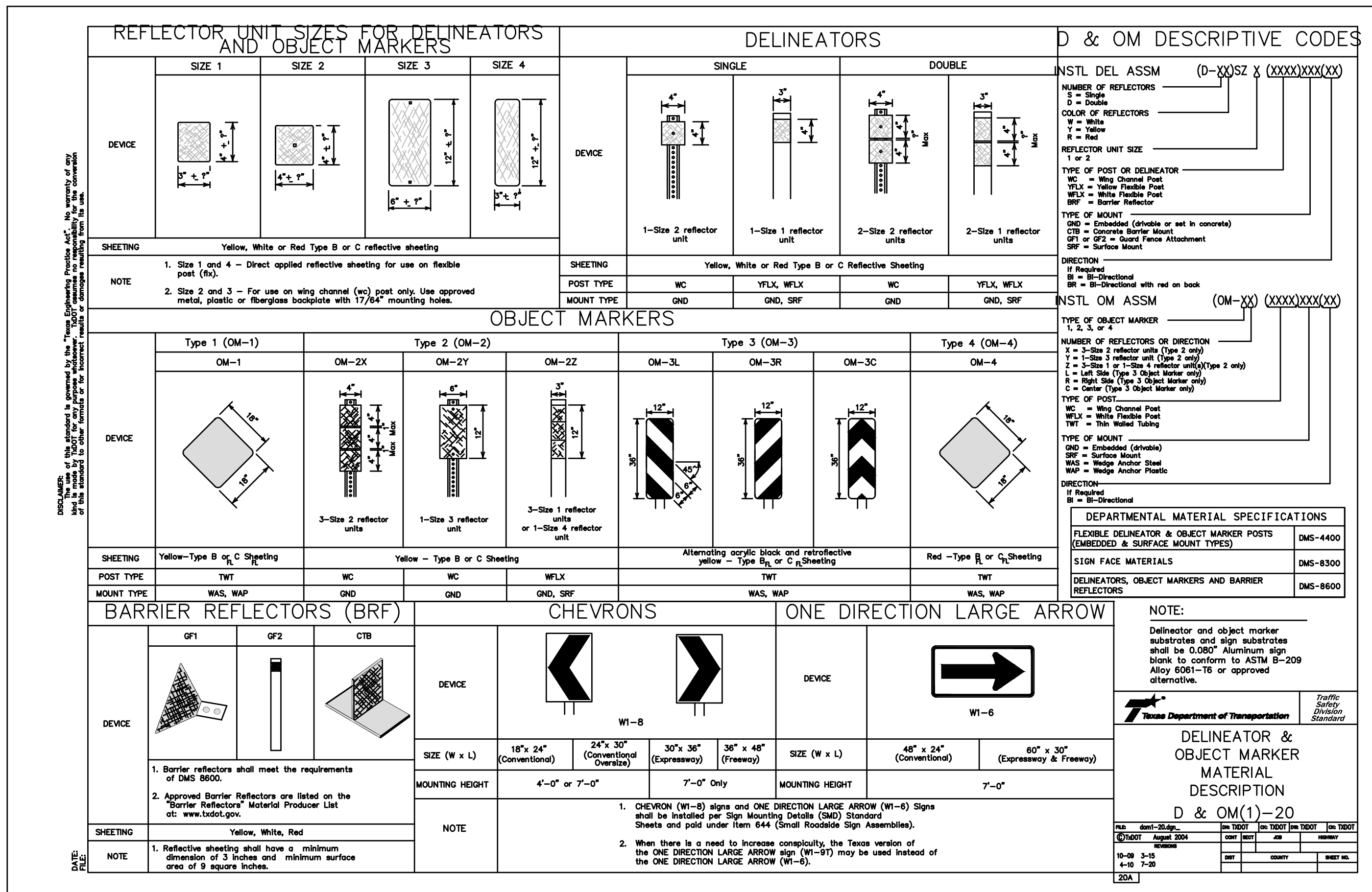
Date	Rev.	Description	F.D. No.	Action

Date:	03-10-2021	Rev.	
Design file no.		Design file no.	
Drawn by:	B. BELTRAN	Checked by:	A. GALLEGOS
Reviewed by:	R. MEDINA	Drawing code:	
		File name:	21_000583A_TYPICAL.dwg
		Plot scale:	D: 1:1
		Plot scale:	1:1

6507 Coates Park, Suite 200
 El Paso, Texas 79912-5802
 915.897.0399
 www.lvwat.com

CIVIL DETAILS

HA:PROV\6306358.03 - FENTER RD. RECONSTRUCTION TO CAD. & BUA\10.1 AUTOCAD SHEETS\26_630635803-170532.DWG



Date	Rev.	Description

Designed by: R. BELTRAN
 Drawn by: R. BELTRAN
 Checked by: A. CALLEGOS
 Reviewed by: R. BELTRAN
 Date: 06-07-2022
 Design file no.:
 Drawing code:
 File name: 15_060853-D1P-1.dwg
 Plot date: 06/07/2022
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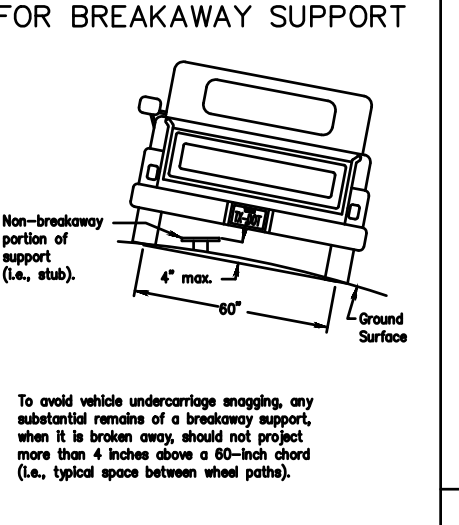
Lower Valley WATER DISTRICT
 HUITT ZOLLARS
 TOWN OF CLINT TEXAS
 SIGNING STANDARDS

SIGN SUPPORT DESCRIPTIVE CODES

(Descriptive Codes correspond to project estimate and quantity sheets)
 SM RD SGN ASSM TY XXXXX(X)X(X-XXXX)
 Post Type:
 FRP = Fiberglass Reinforced Plastic Pipe (see SMD(PS)-1)
 1088 = 10 Bore Tubing (see SMD(SLP-1) to (SLP-3))
 S80 = Schedule 80 Pipe (see SMD(SLP-1) to (SLP-3))
 Number of Posts (1 or 2)

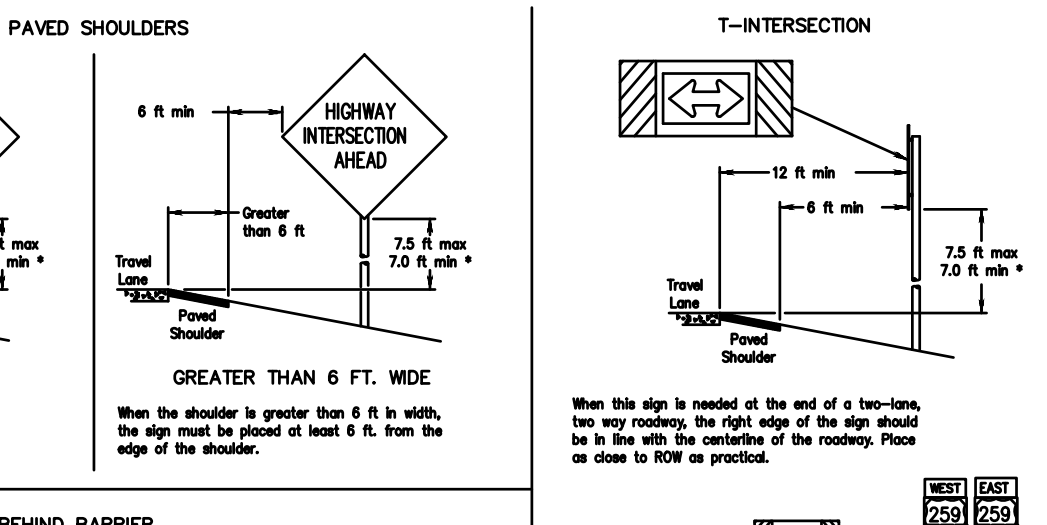
Anchor Type:
 UA = Universal Anchor - Casted (see SMD(PS)-1 and (TWT))
 UB = Universal Anchor - Bolted down (see SMD(PS)-1 and (TWT))
 WS = Wedge Anchor Bolt (see SMD(PS)-1 and (TWT))
 WP = Wedge Anchor Plastic (see SMD(PS)-1 and (TWT))
 SA = Sleeve - Casted (see SMD(SLP-1) to (SLP-3))
 SB = Sleeve - Bolted down (see SMD(SLP-1) to (SLP-3))
 Sign Mounting Designation:
 F = Friction Cap (see SMD(SLP-1) to (SLP-3), (TWT), (FRP))
 L = Friction Cap (see SMD(SLP-1) to (SLP-3), (TWT))
 U = Friction Cap (see SMD(SLP-1) to (SLP-3), (TWT))
 F (REQUIRED)
 EXT or EXT* = Number of Extensions (see SMD(SLP-1) to (SLP-3), (TWT))
 SA = Extended Bolt Sleeve (see SMD(SLP-1) to (SLP-3))
 SB = 1 1/2 #/R Wing Channel (see SMD(SLP-1) to (SLP-3))
 DAL = Extended Aluminum Sign Panels (see SMD(SLP-1) to (SLP-3))

REQUIRED CLEARANCE FOR BREAKAWAY SUPPORT

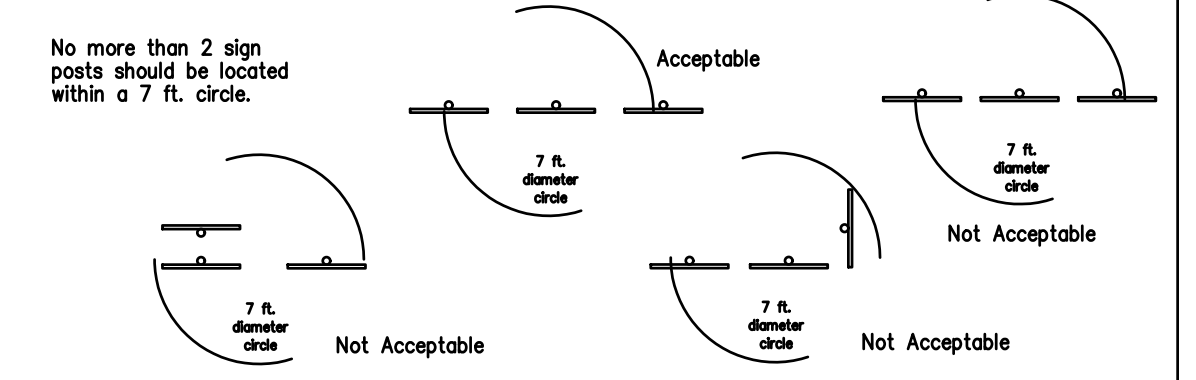


To avoid vehicle undercarriage snagging, any substantial remainder of a breakaway support, when it is broken away, should not project more than 4 inches above a 60-inch curb (i.e., typical space between street posts).

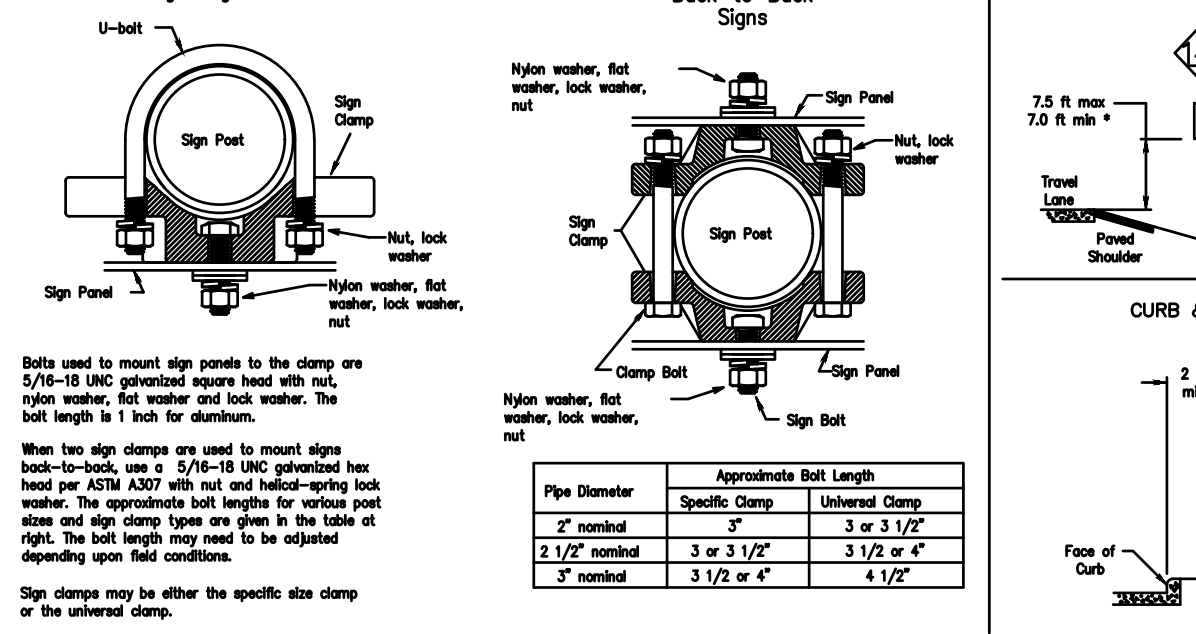
SIGN LOCATION



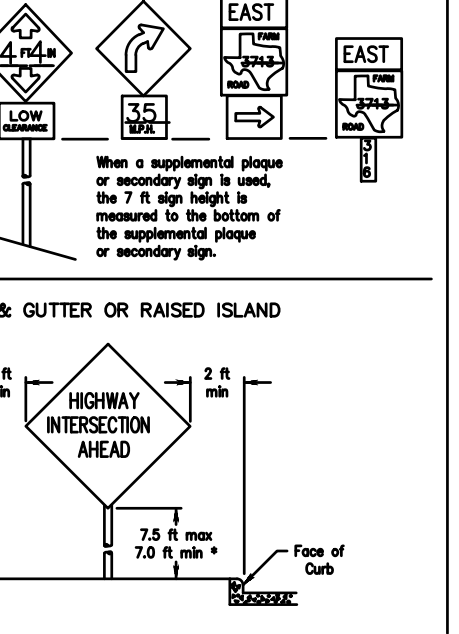
When the shoulder is 8 ft. or less in width, the sign must be placed at least 12 ft. from the edge of the travel lane.
 When the shoulder is greater than 8 ft. in width, the sign should be placed at least 8 ft. from the edge of the shoulder.
 When this sign is needed at the end of a two-lane, two-way roadway, the right edge of the sign should be in line with the centerline of the roadway. Place as close to ROW as practical.



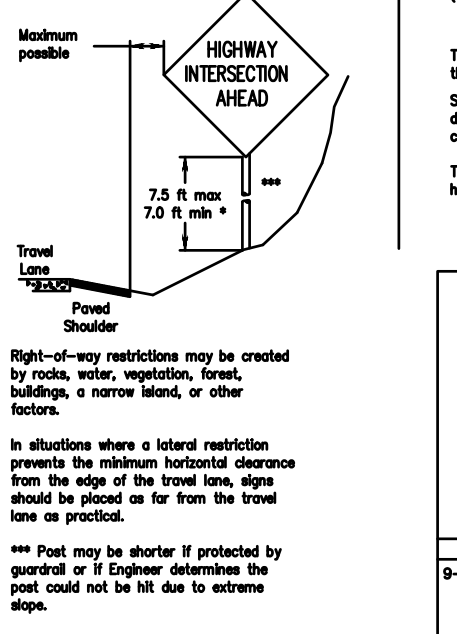
TYPICAL SIGN ATTACHMENT DETAIL



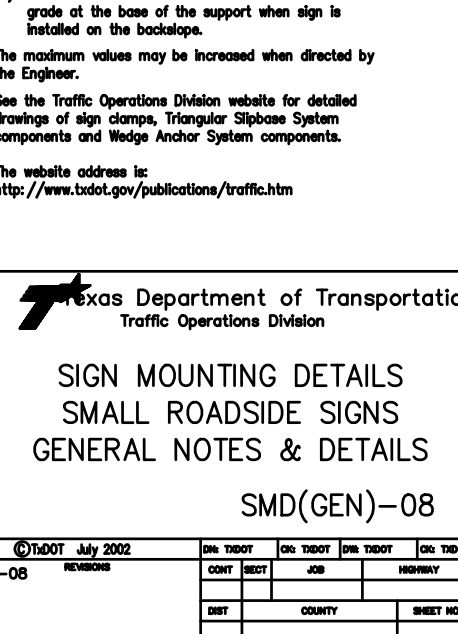
SIGNS WITH PLAQUES



RESTRICTED RIGHT-OF-WAY



CURB & GUTTER OR RAISED ISLAND

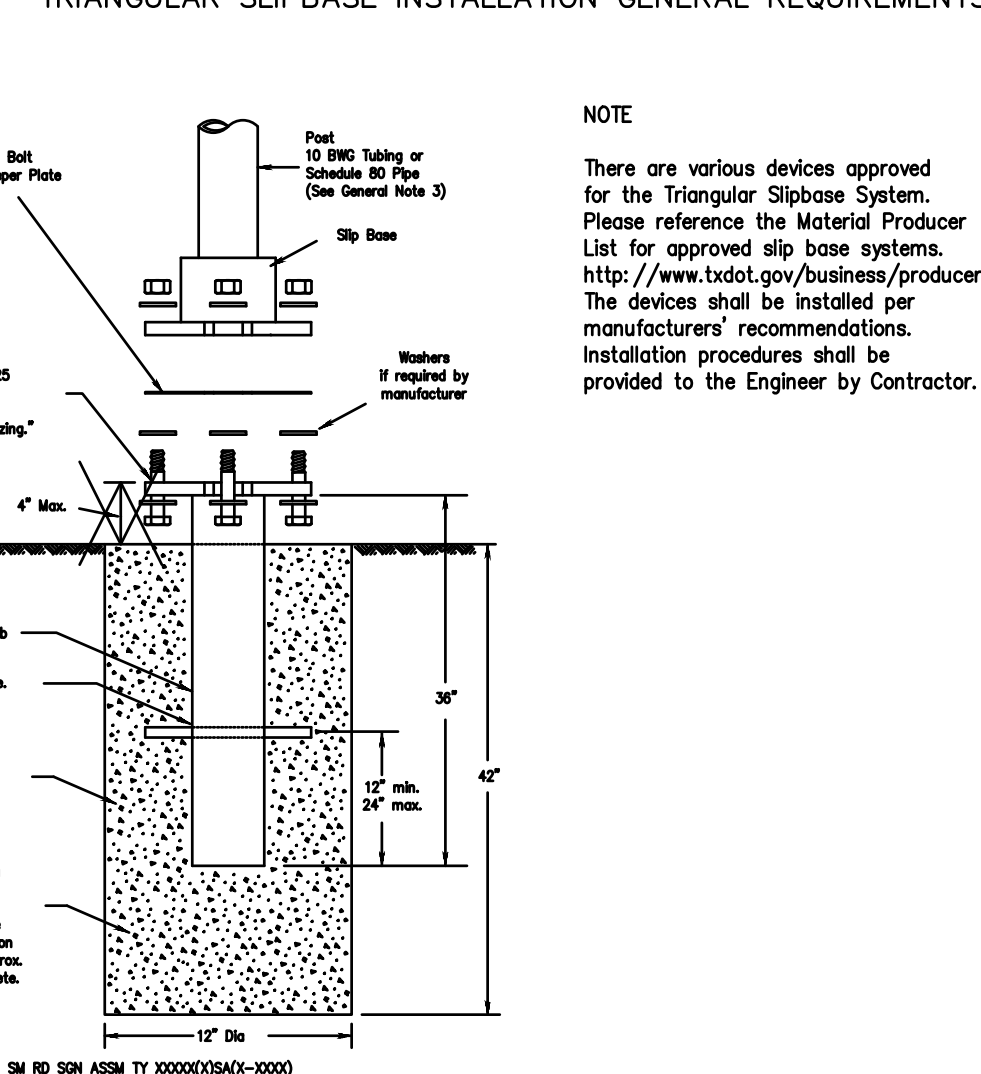


Right-of-way restrictions may be created by rocks, water, vegetation, trees, buildings, a narrow island, or other factors.
 In situations where a lateral restriction presents the minimum horizontal clearance from the edge of the travel lane, signs should be placed as far from the travel lane as practical.
 ** Post may be shorter if protected by guardrail or if Engineer determines the post could not be hit due to extreme sign.

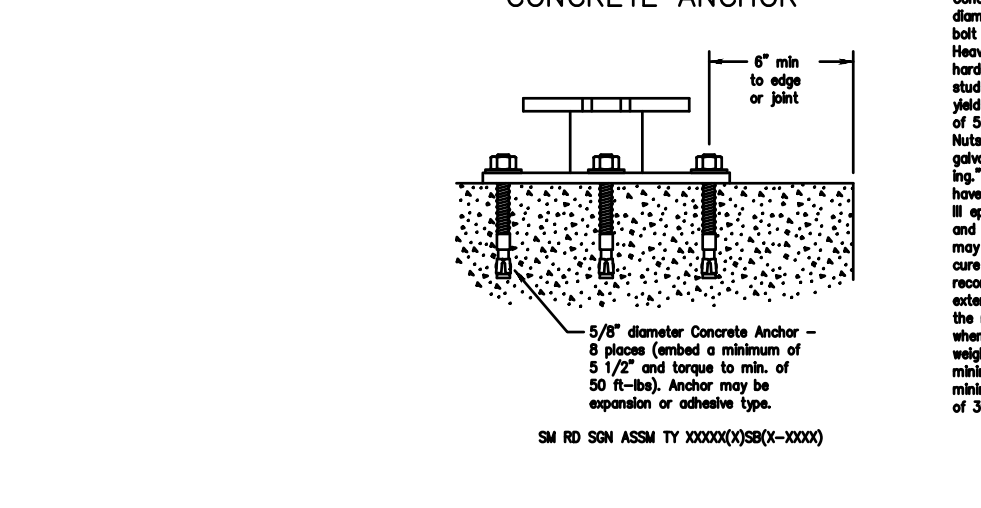
TEXAS DEPARTMENT OF TRANSPORTATION
Traffic Operations Division
SIGN MOUNTING DETAILS
SMALL ROADSIDE SIGNS
GENERAL NOTES & DETAILS
SMD(GEN)-08

DATE	REVISION	BY	CHK	APP	DESCRIPTION
07/07	01	SM	SM	SM	ISSUE FOR CONSTRUCTION

TRIANGULAR SLIPBASE INSTALLATION GENERAL REQUIREMENTS



CONCRETE ANCHOR



GENERAL NOTES

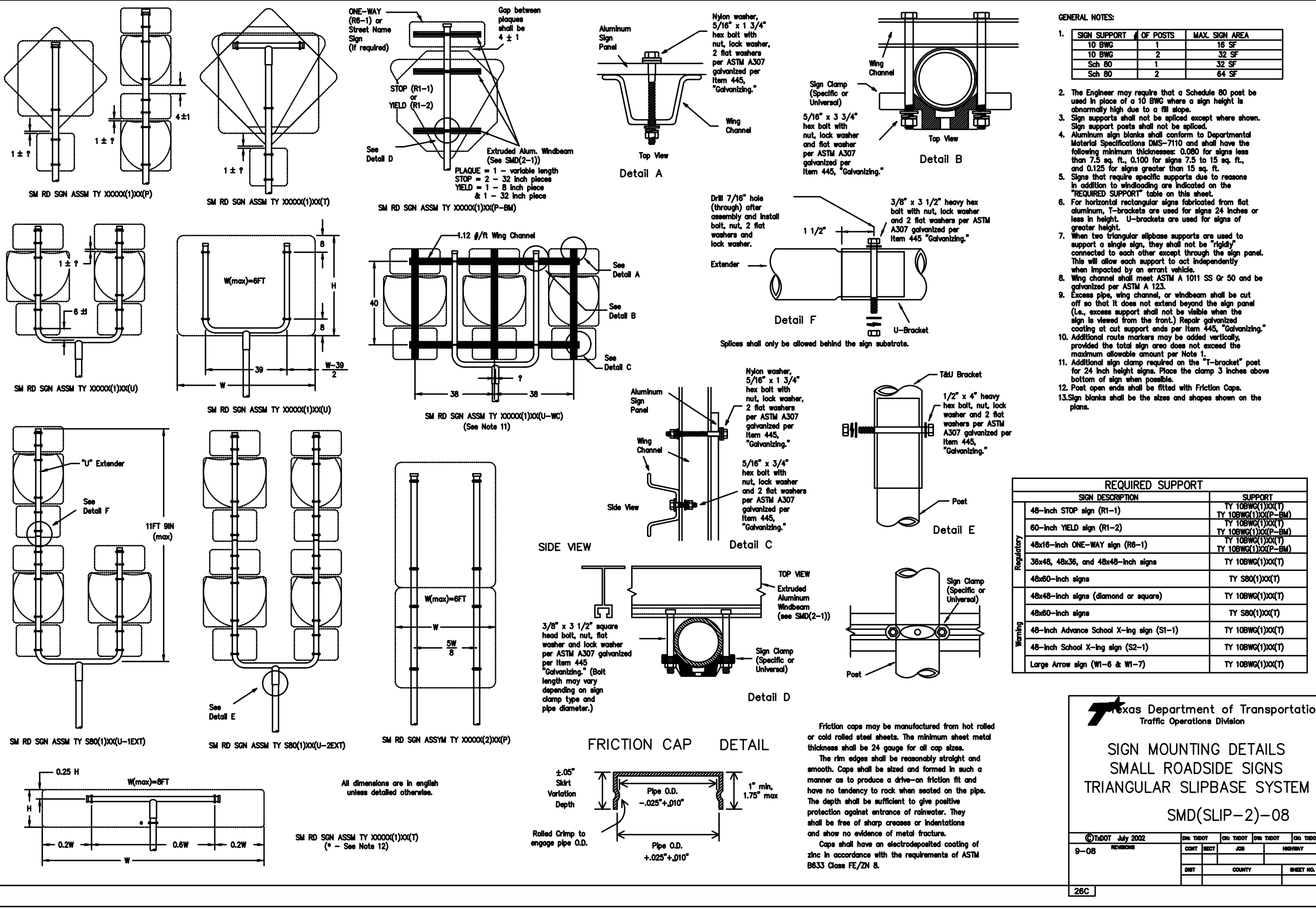
- Slip base shall be permanently marked to indicate manufacturer, method, design, and location of marking are subject to approval of the TxDOT Traffic Standards Engineer.
- Material used on post with this system shall conform to the following specifications:
 10 Bore Tubing (SMD(PS)-1)
 10 Bore Tubing (SMD(PS)-1)
 Schedule 80 Pipe (see SMD(SLP-1) to (SLP-3))
 10 Bore Tubing (SMD(PS)-1)
 Schedule 80 Pipe (see SMD(SLP-1) to (SLP-3))
 Sign Mounting Designation:
 F = Friction Cap (see SMD(SLP-1) to (SLP-3), (TWT), (FRP))
 L = Friction Cap (see SMD(SLP-1) to (SLP-3), (TWT))
 U = Friction Cap (see SMD(SLP-1) to (SLP-3), (TWT))
 F (REQUIRED)
 EXT or EXT* = Number of Extensions (see SMD(SLP-1) to (SLP-3), (TWT))
 SA = Extended Bolt Sleeve (see SMD(SLP-1) to (SLP-3))
 SB = 1 1/2 #/R Wing Channel (see SMD(SLP-1) to (SLP-3))
 DAL = Extended Aluminum Sign Panels (see SMD(SLP-1) to (SLP-3))

GENERAL NOTES

- Slip base shall be permanently marked to indicate manufacturer, method, design, and location of marking are subject to approval of the TxDOT Traffic Standards Engineer.
- Material used on post with this system shall conform to the following specifications:
 10 Bore Tubing (SMD(PS)-1)
 10 Bore Tubing (SMD(PS)-1)
 Schedule 80 Pipe (see SMD(SLP-1) to (SLP-3))
 Sign Mounting Designation:
 F = Friction Cap (see SMD(SLP-1) to (SLP-3), (TWT), (FRP))
 L = Friction Cap (see SMD(SLP-1) to (SLP-3), (TWT))
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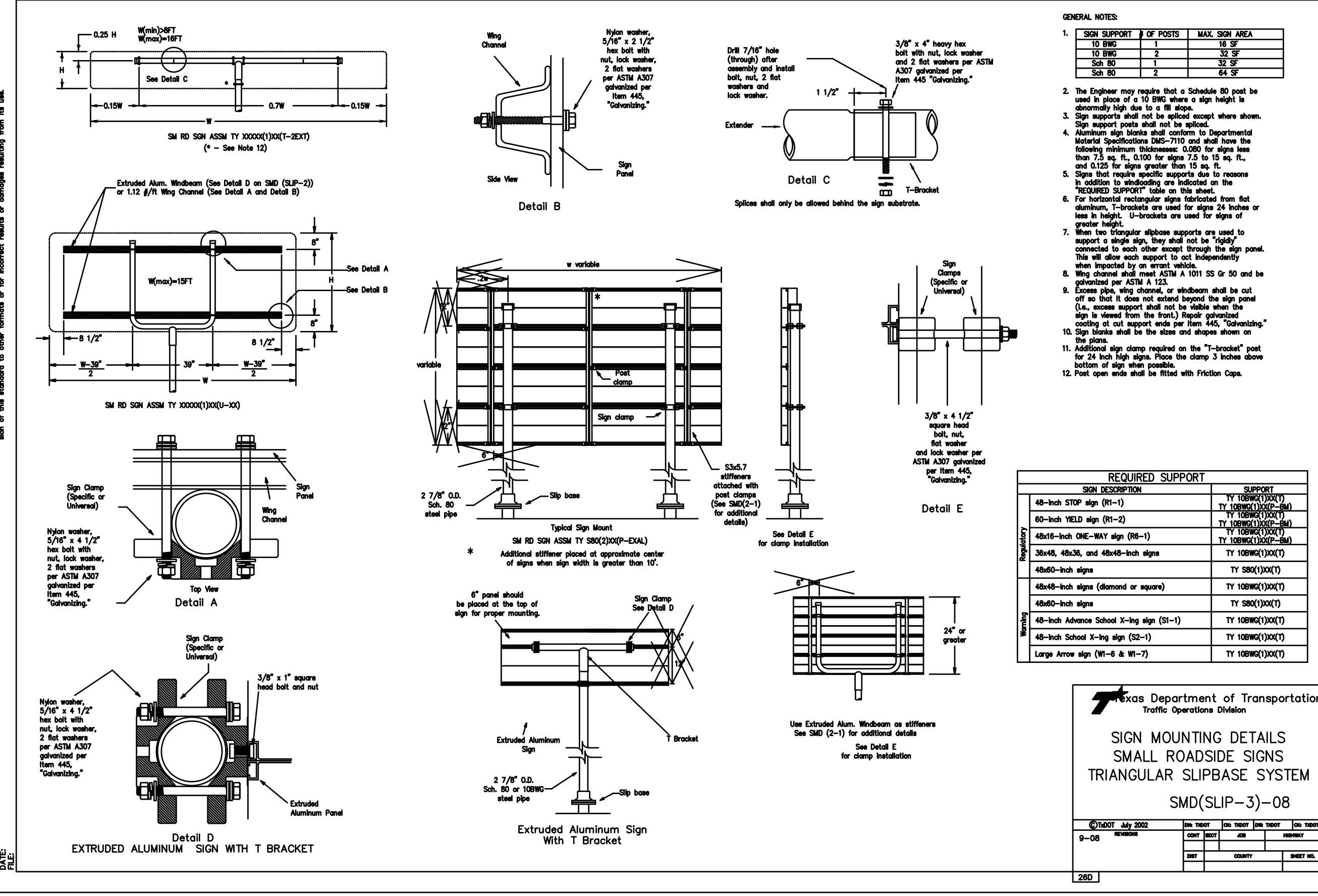
TEXAS DEPARTMENT OF TRANSPORTATION
Traffic Operations Division
SIGN MOUNTING DETAILS
SMALL ROADSIDE SIGNS
GENERAL NOTES & DETAILS
SMD(SLP-1)-08

DATE	REVISION	BY	CHK	APP	DESCRIPTION
07/07	01	SM	SM	SM	ISSUE FOR CONSTRUCTION



TEXAS DEPARTMENT OF TRANSPORTATION
Traffic Operations Division
SIGN MOUNTING DETAILS
SMALL ROADSIDE SIGNS
TRIANGULAR SLIPBASE SYSTEM
SMD(SLP-2)-08

DATE	REVISION	BY	CHK	APP	DESCRIPTION
07/07	01	SM	SM	SM	ISSUE FOR CONSTRUCTION



TEXAS DEPARTMENT OF TRANSPORTATION
Traffic Operations Division
SIGN MOUNTING DETAILS
SMALL ROADSIDE SIGNS
TRIANGULAR SLIPBASE SYSTEM
SMD(SLP-3)-08

DATE	REVISION	BY	CHK	APP	DESCRIPTION
07/07	01	SM	SM	SM	ISSUE FOR CONSTRUCTION

NO.	DESCRIPTION	DATE	BY	CHK	APP	STATUS
1	ISSUE FOR CONSTRUCTION	07/07	SM	SM	SM	OPEN

DATE	DESIGN	DESIGN NO.	DRAWING CODE	SCALE	PROJECT NO.
07-07-2022	08	280	280	1:1	280

DESIGNED BY: R. BELTRAN
 DRAWN BY: R. BELTRAN
 CHECKED BY: A. CALLEGOS
 REVIEWED BY: R. BELTRAN
 PROJECT NO.: 280

BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

- 1. The Barricade and Construction Standard Sheets (BC sheets) are intended to show typical examples for placement of temporary traffic control devices, construction pavement markings, and typical work zone signs. The information contained in these sheets meet or exceed the requirements shown in the Texas Manual on Uniform Traffic Control Devices (TMUTCD).
- 2. The development and design of the Traffic Control Plan (TCP) is the responsibility of the Engineer.
- 3. The Contractor may propose changes to the TCP that are signed and sealed by a licensed professional engineer for approval. The Engineer may develop, sign and seal Contractor proposed changes.
- 4. The Contractor is responsible for installing and maintaining the traffic control devices as shown in the plans. The Contractor may not move or change the approximate location of any device without the approval of the Engineer.
- 5. Geometric design of lane shifts and detours should, when possible, meet the applicable design criteria contained in manuals such as the American Association of State Highway and Transportation Officials (AASHTO), "A Policy on Geometric Design of Highways and Streets," the TxDOT "Roadway Design Manual" or engineering judgment.
- 6. When projects abut, the Engineer(s) may omit the END ROAD WORK, TRAFFIC FINES DOUBLE, and advance warning signs if the signing would be redundant and the work areas appear continuous to the motorists. If the adjacent project is completed first, the Contractor shall erect the necessary warning signs as shown on these sheets, the TxDOT sheets or as directed by the Engineer. The BEGIN ROAD WORK NEXT X MILES sign shall be revised to show appropriate work zone distance.
- 7. The Engineer may require duplicate warning signs on the median side of divided highways where median width will permit and traffic volumes justify the signing.
- 8. All signs shall be constructed in accordance with the details found in the "Standard Highway Sign Designs for Texas," latest edition. Sign details not shown in this manual shall be shown in the plans or the Engineer shall provide a detail to the Contractor before the sign is manufactured.
- 9. The temporary traffic control devices shown in the illustrations of the BC sheets are examples. As necessary, the Engineer will determine the most appropriate traffic control devices to be used.
- 10. Where highway construction or maintenance work is being undertaken, other than mobile operations as defined by the Texas Manual on Uniform Traffic Control Devices, CSJ limit signs are required. CSJ limit signs are shown on BC(2). The OBEY WARNING SIGNS STATE LAW sign, STAY ALERT TALK OR TEXT LATER and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shall be erected in advance of the CSJ limits. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK signs shall be erected at or near the CSJ limits. For mobile operations, CSJ limit signs are not required.
- 11. Traffic control devices should be in place only while work is actually in progress or a definite need exists.
- 12. The Engineer has the final decision on the location of all traffic control devices.
- 13. Inactive equipment and work vehicles, including workers' private vehicles must be parked away from travel lanes. They should be as close to the right-of-way line as possible, or located behind a barrier or guardrail, or as approved by the Engineer.

WORKER SAFETY NOTES:

- 1. Workers on foot who are exposed to traffic or to construction equipment within the right-of-way shall wear high-visibility safety apparel meeting the requirements of ISEA "American National Standard for High-Visibility Apparel," or equivalent revisions, and labeled as ANSI 107-2004 standard performance for Class 2 or 3 risk exposure. Class 3 garments should be considered for high traffic volume work areas or night time work.
- 2. Except in emergency situations, flagger stations shall be illuminated when flagging is used at night.

COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

- 1. Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources.
- 2. Work zone traffic control devices shall be compliant with the Manual for Assessing safety Hardware (MASH).

Table with 2 columns: Source and Description. Includes THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT, COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST (CWZTCD), DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS), MATERIAL PRODUCER LIST (MPL), ROADWAY DESIGN MANUAL - SEE "MANUALS (ONLINE MANUALS)", STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD), TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), and TRAFFIC ENGINEERING STANDARD SHEETS.

SHEET 1 OF 12



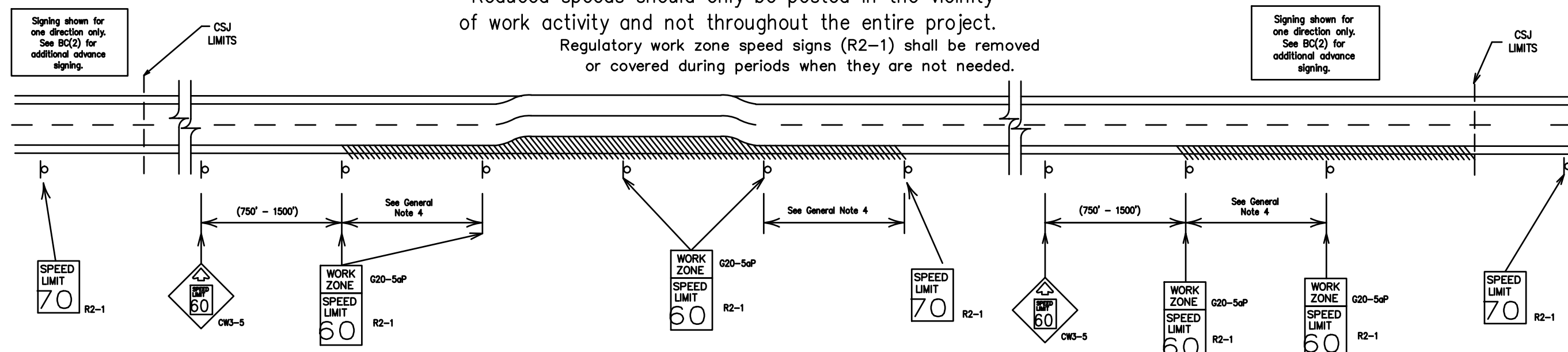
BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS BC(1)-21

Revision table with columns: No., Date, Description, By, App'd.

TYPICAL APPLICATION OF WORK ZONE SPEED LIMIT SIGNS

Work zone speed limits shall be regulatory, established in accordance with the "Procedures for Establishing Speed Zones," and approved by the Texas Transportation Commission, or by City Ordinance when within Incorporated City Limits.

Reduced speeds should only be posted in the vicinity of work activity and not throughout the entire project. Regulatory work zone speed signs (R2-1) shall be removed or covered during periods when they are not needed.



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 in the work zone and modification of the geometrics to a higher design speed is not feasible. Long/intermediate term Work Zone Speed Limit signs, when approved as described above, should be posted and visible to the motorist when work activity is 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) substantial alteration of roadway geometrics (diversions) c) construction detours d) grade e) width 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 workers or equipment are not behind concrete barrier, when work activity is within 10 feet of the traveled way or actually in the traveled way. Short Term Work Zone Speed Limit signs should be posted and visible to the motorists only when work activity is present. When work activity is not present, signs should be removed or covered. (See Removing or Covering on BC(4)).

GENERAL NOTES

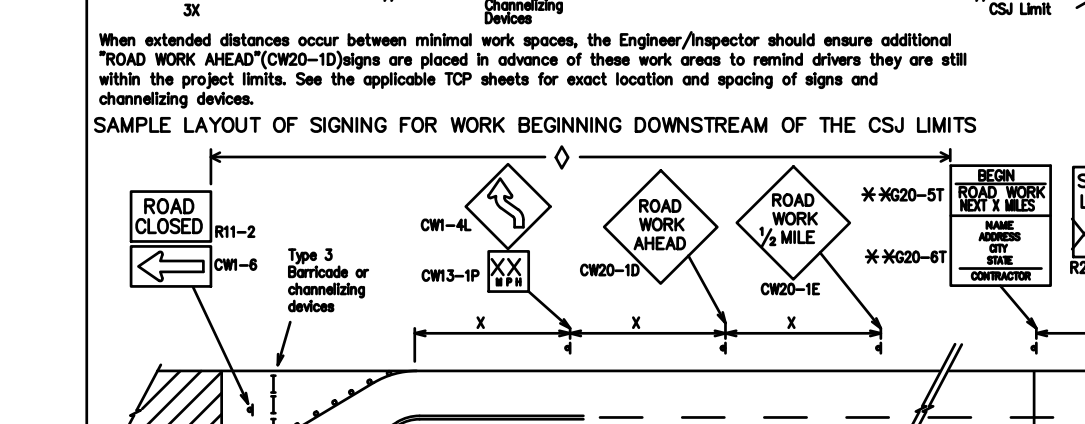
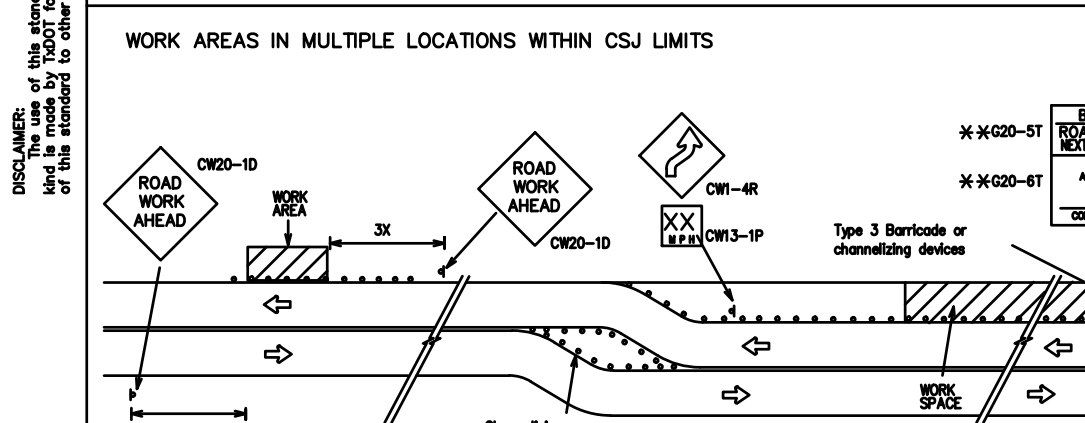
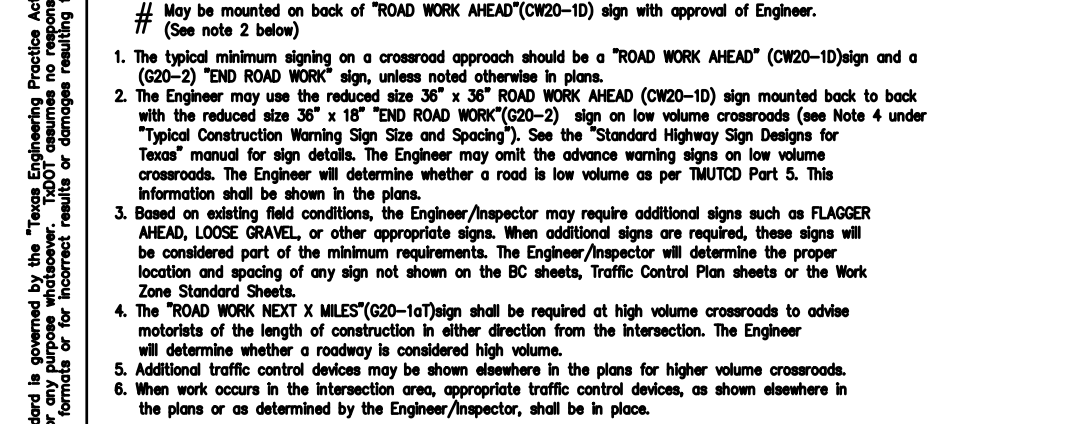
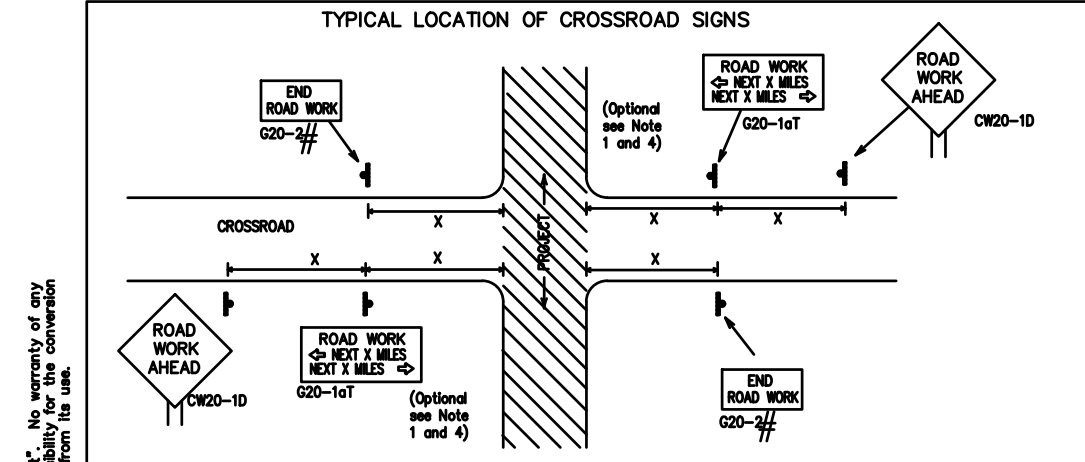
- 1. Regulatory work zone speed limits should be used only for sections of construction projects where speed control is of major importance.
- 2. Regulatory work zone speed limit signs shall be placed on supports at a 7 foot minimum mounting height.
- 3. Speed zone signs are illustrated for one direction of travel and are normally posted for each direction of travel.
- 4. 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
- 5. Regulatory speed limit signs shall have black legend and border on a white reflective background (See "Reflective Sheeting" on BC(4)).
- 6. Fabrication, erection and maintenance of the ADVANCE SPEED LIMIT (CW3-5) sign, WORK ZONE (G20-5) plaque and the SPEED LIMIT (R2-1) signs shall not be paid for directly, but shall be considered subsidiary to Item 502.
- 7. Turning signs from view, loyng signs over or down will not be allowed, unless otherwise noted under "REMOVING OR COVERING" on BC(4).
- 8. Techniques that may help reduce traffic speeds include but are not limited to: A. Law enforcement. B. Flagger stationed next to sign. C. Portable changeable message sign (PCMS). D. Low-power (dron) radar transmitter. E. Speed monitor trailers or signs.
- 9. Speeds shown on details above are for illustration only. Work Zone Speed Limits should only be posted as approved for each project.
- 10. For more specific guidance concerning the type of work zone conditions and factors impacting allowable regulatory construction speed zone reduction see TxDOT Form #1204 in the TxDOT e-Form system.

SHEET 3 OF 12

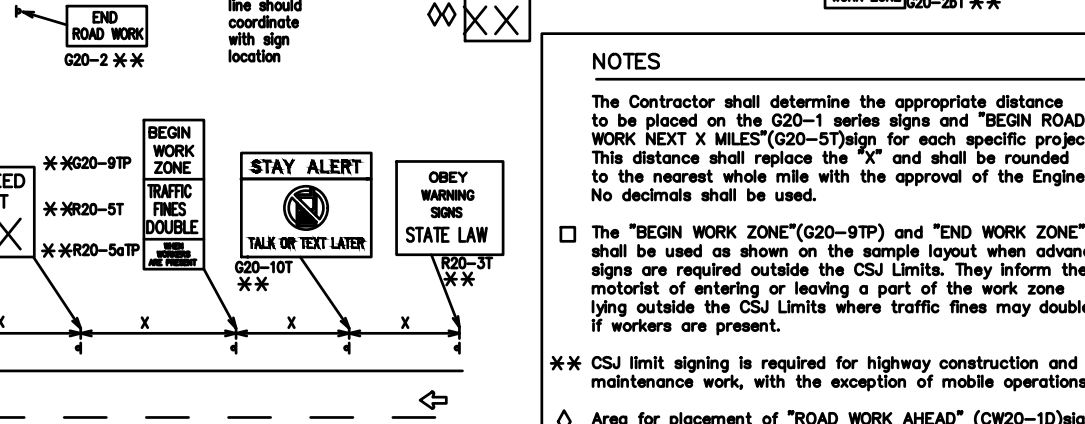
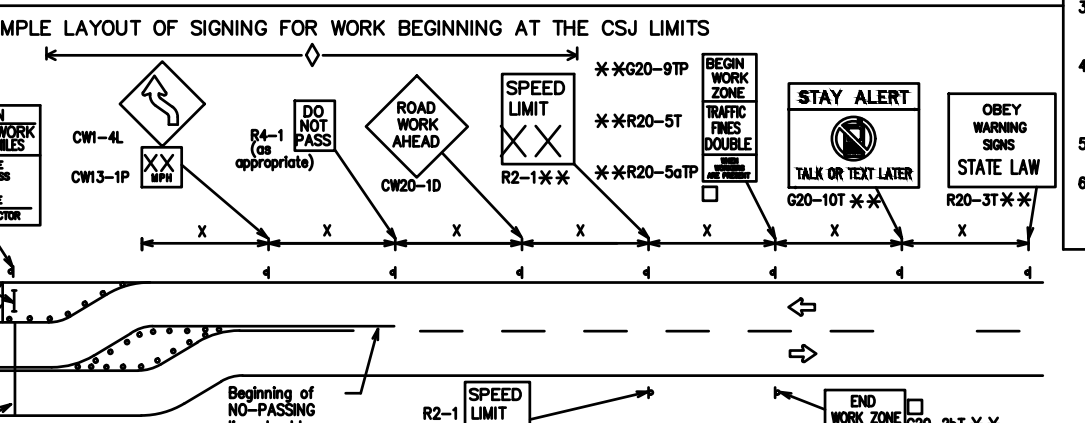
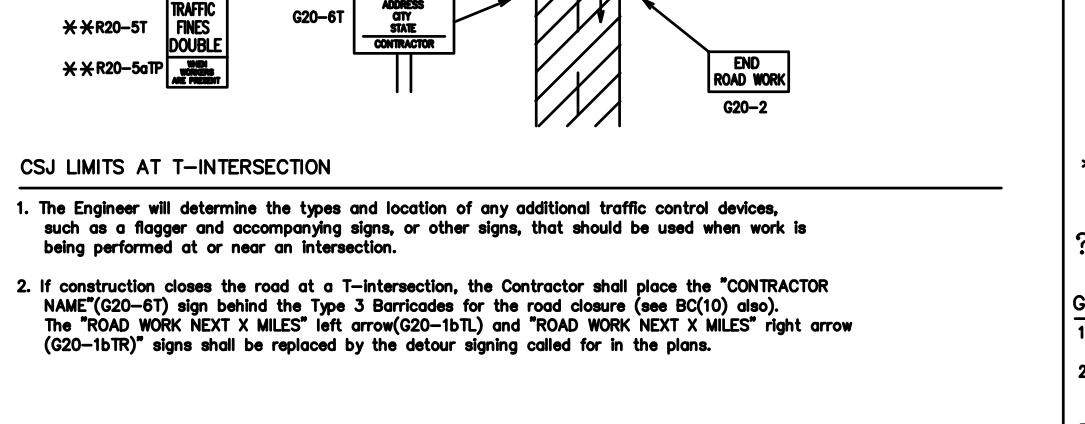
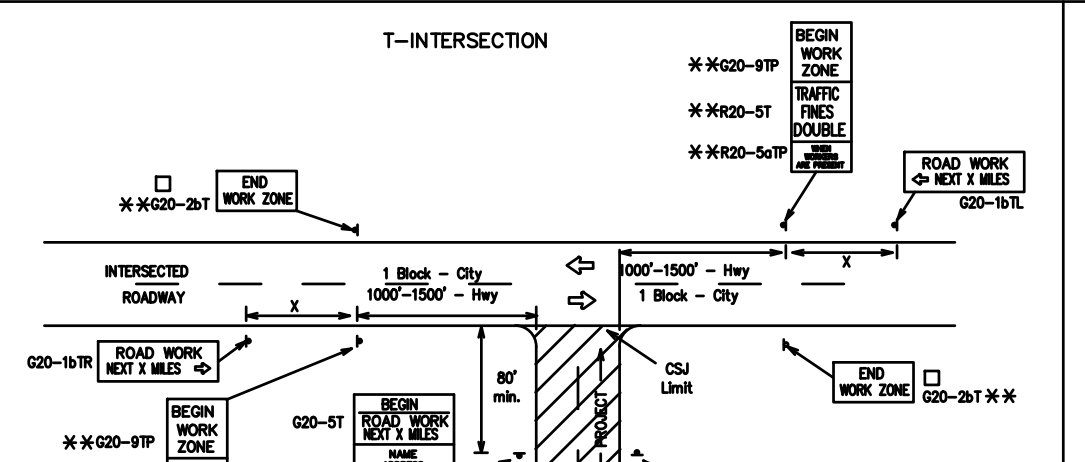


BARRICADE AND CONSTRUCTION WORK ZONE SPEED LIMIT BC(3)-21

Revision table with columns: No., Date, Description, By, App'd.



Revision table with columns: No., Date, Description, By, App'd.



Revision table with columns: No., Date, Description, By, App'd.

TYPICAL CONSTRUCTION WARNING SIGN SIZE AND SPACING

Table with columns: Sign Number or Series, Conventional Road, Expressway/Freeway, Posted Speed, Sign Spacing (Feet), Sign Spacing (Miles).

* For typical sign spacing on divided highway, expressway and freeway, see Part 6 of the Texas Manual on Uniform Traffic Control Devices (TMUTCD) Typical Location of Advance Sign.

Minimum distance from work area to first Advance Warning sign nearest the work area and/or distance between each additional sign.

GENERAL NOTES

- 1. Speed or larger size signs may be used as necessary.
- 2. Distance between signs should be increased as required to have 1/2 mile or more advance warning.
- 3. Distance between signs should be increased as required to have 1/2 mile or more advance warning.
- 4. 36" x 36" ROAD WORK AHEAD (CW20-10) signs may be used on low volume roads at the discretion of the Engineer as per TMUTCD Part 5. See Note 2 under "Typical Location of Advance Sign."
- 5. Only diamond shaped warning sign sizes are indicated.
- 6. See sign size listing in "TMUTCD," Sign Appendix or the "Standard Highway Sign Designs for Texas" manual for complete list of available sign design sizes.

LEGEND

Legend table with columns: Symbol and Description. Includes Type 3 Barricade, Channelizing Devices, Sign, and Typical Construction Warning Sign.

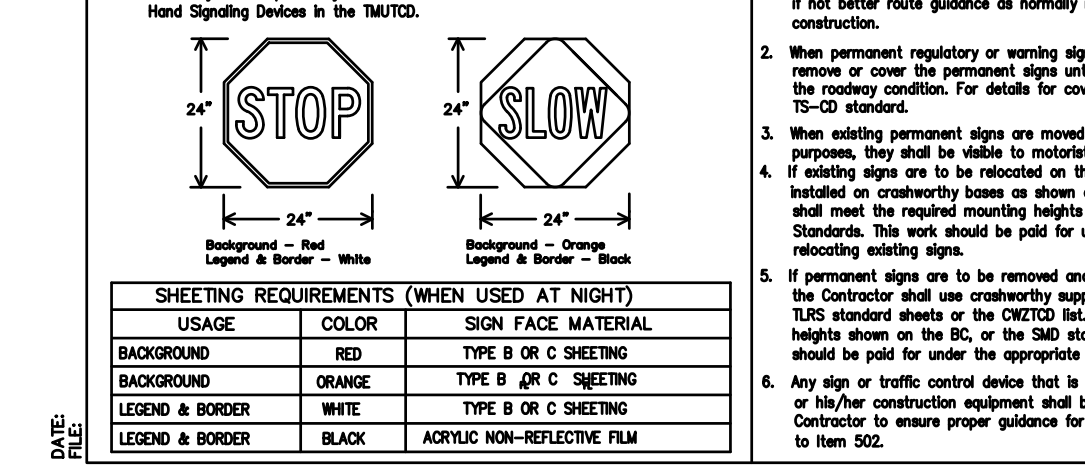
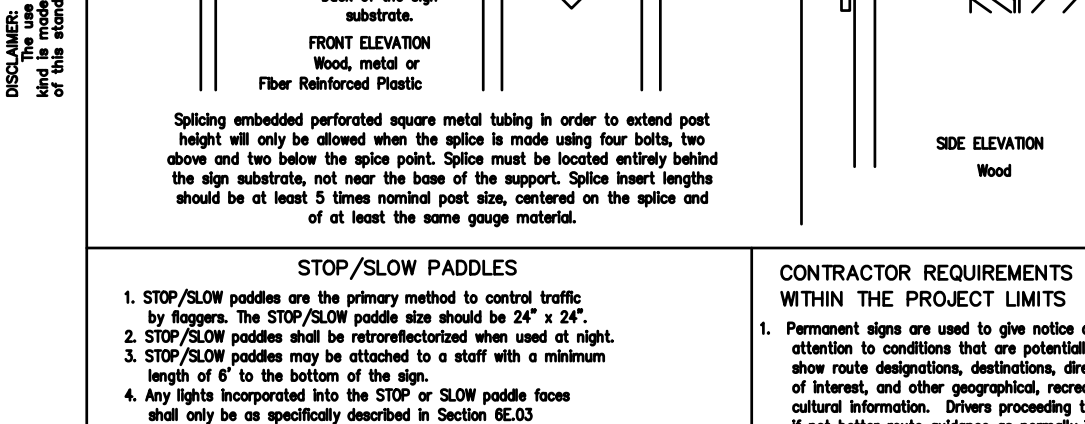
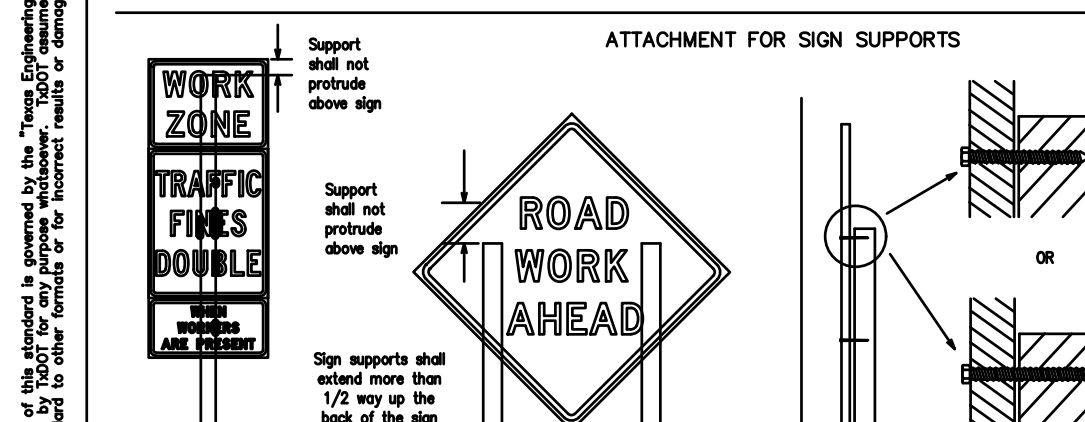
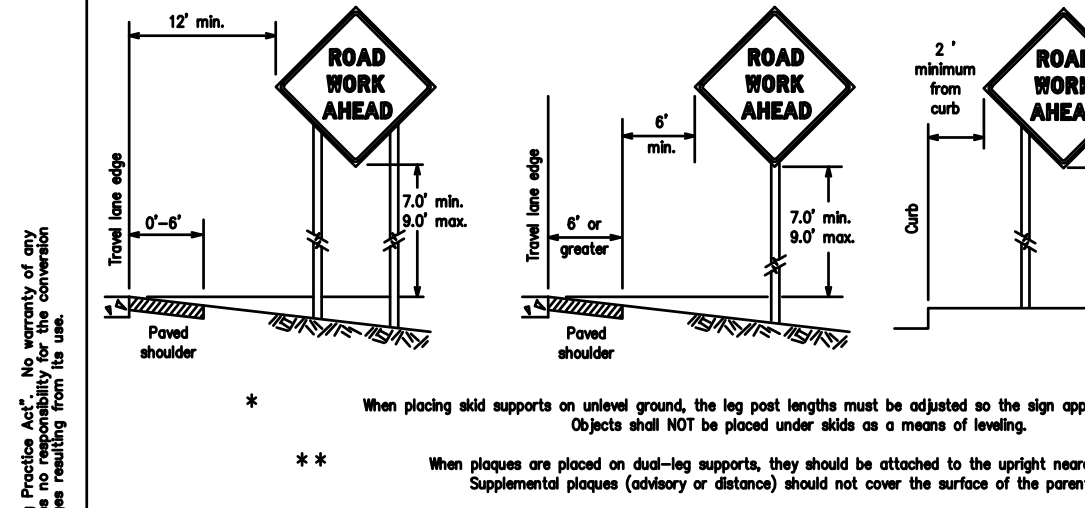
SHEET 2 OF 12



BARRICADE AND CONSTRUCTION PROJECT LIMIT BC(2)-21

Revision table with columns: No., Date, Description, By, App'd.

TYPICAL MINIMUM CLEARANCES FOR LONG TERM AND INTERMEDIATE TERM SIGNS



GENERAL NOTES FOR WORK ZONE SIGNS

- 1. Contractor shall install and maintain signs in a straight and plumb condition and/or as directed by the Engineer.
- 2. Work zone signs shall be posted and visible to the motorist when work activity is present.
- 3. Barricades shall NOT be used as sign supports.
- 4. All signs shall be installed in accordance with the plans or as directed by the Engineer. Signs shall be used to regulate work, and guide the traveling public safely through the work zone.
- 5. The Contractor may furnish other sign designs shown in the plans or in the "Standard Highway Sign Designs for Texas" (SHSD). The Engineer/Inspector may require the Contractor to furnish other sign designs that are shown in the TMUTCD but may not be included in the plans. Any variation in the plans shall be documented by written agreement between the Engineer and the Contractor's Responsible Person. All changes must be documented in writing before implementation. The cost of documenting the changes in the Inspector's TxDOT sign log and having the Inspector and Contractor initial and date the sign log changes.
- 6. The Contractor shall use the appropriate sign for the work zone. The "Correction Block Sign" (CW3-1) is required for all roadside signs. Supports for temporary large roadside signs shall meet the requirements detailed on the Temporary Large Roadside Signs (TLRS) manual. The Contractor shall support the sign in accordance with the manufacturer's instructions. If there is a question regarding installation procedures, the Contractor shall furnish the Engineer a copy of the manufacturer's installation recommendations as they apply to the project. The Contractor shall be responsible for repairing and replacing signs with damaged or cracked substrates and/or damaged or marred reflective sheeting as directed by the Engineer/Inspector.
- 7. The Contractor shall be responsible for repairing and replacing signs with damaged or cracked substrates and/or damaged or marred reflective sheeting as directed by the Engineer/Inspector.
- 8. Identification markings on the back of the sign substrate. The maximum height of letters and/or company logos used for identification shall be 1 inch.
- 9. The Contractor shall replace damaged wood posts. New or damaged wood sign posts shall not be applied.
- 10. Contractor shall install a regulatory speed limit sign at the end of the work zone.

SHEET 4 OF 12



BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES BC(4)-21

Revision table with columns: No., Date, Description, By, App'd.

Table with columns: Date, Design file no., Drawing code, and other project information.

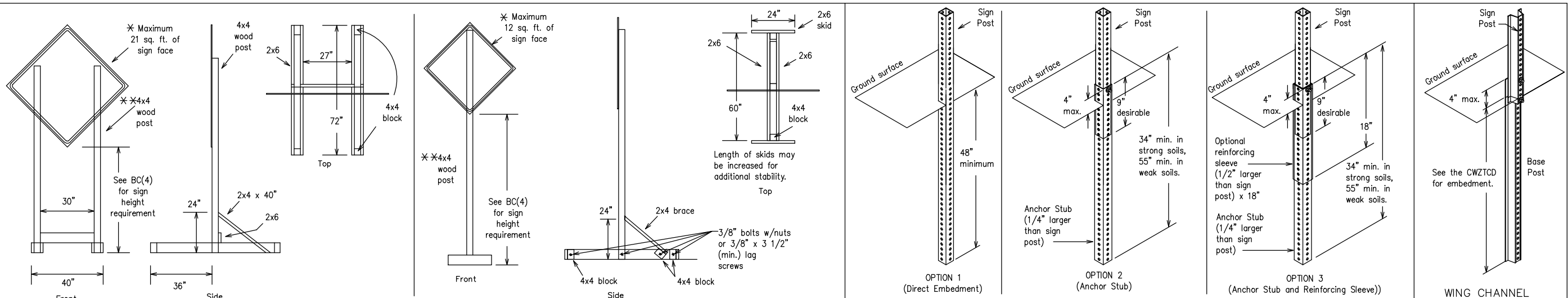
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Lower Valley Water District, TOWN OF CLINT, TEXAS

HUITZ COLLARS

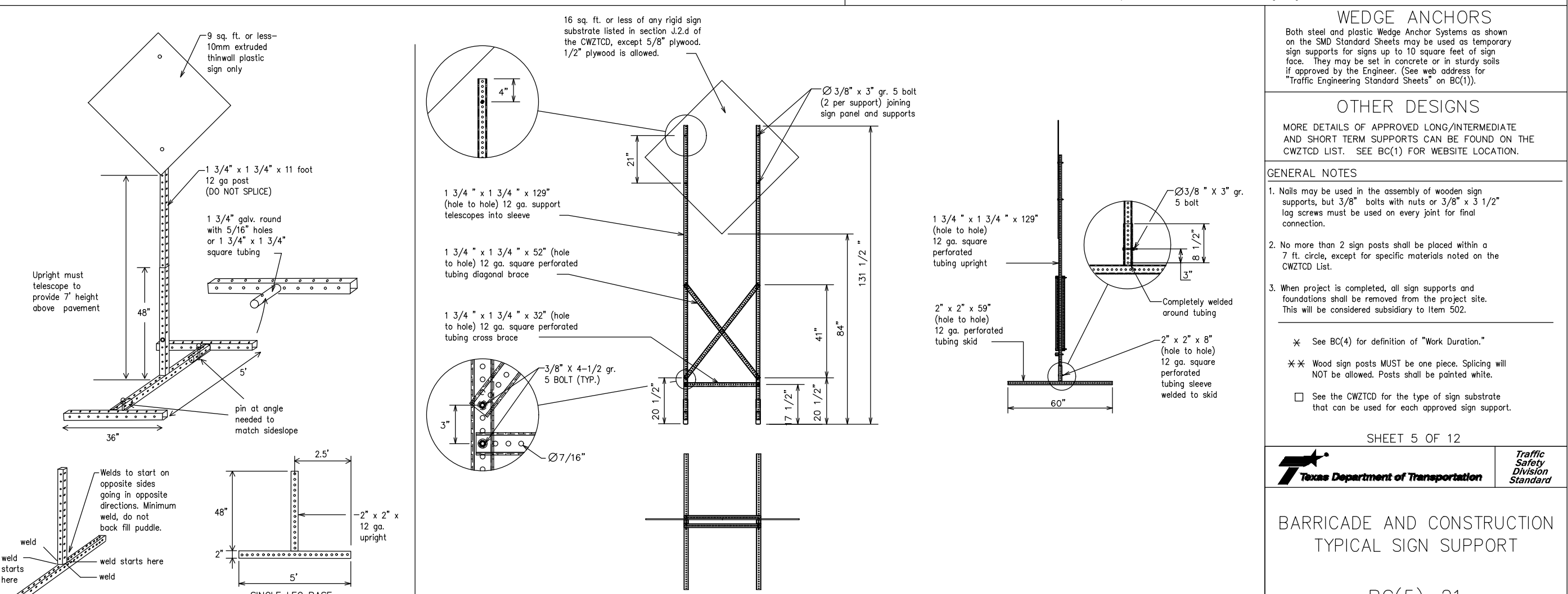
FENTER RD. RECONSTRUCTION TOWN OF CLINT, TEXAS

Sheet reference number: Sheet 27 of 29



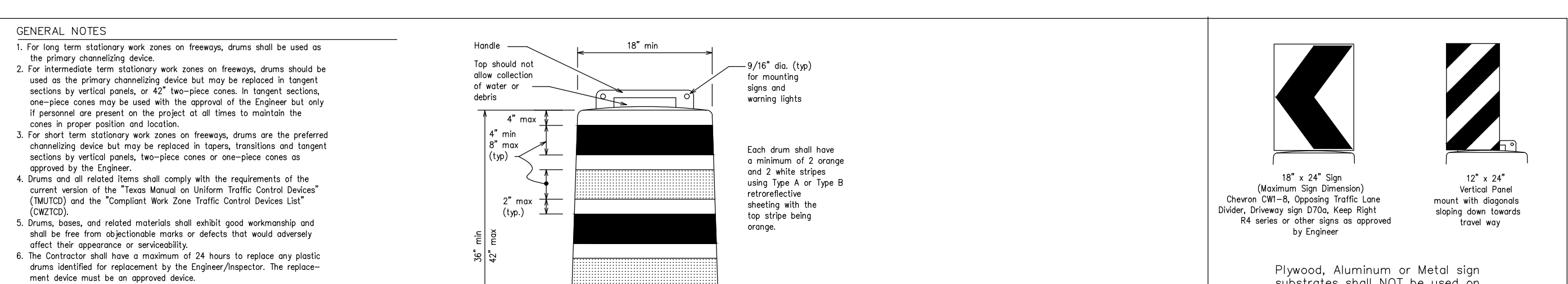
SKID MOUNTED WOOD SIGN SUPPORTS
* LONG/INTERMEDIATE TERM STATIONARY - PORTABLE SKID MOUNTED SIGN SUPPORTS

GROUND MOUNTED SIGN SUPPORTS
Refer to the CMTD2D and the manufacturer's installation procedure for each type sign support. The minimum sign square footage shall adhere to the manufacturer's recommendation. Two post installations can be used for larger signs.

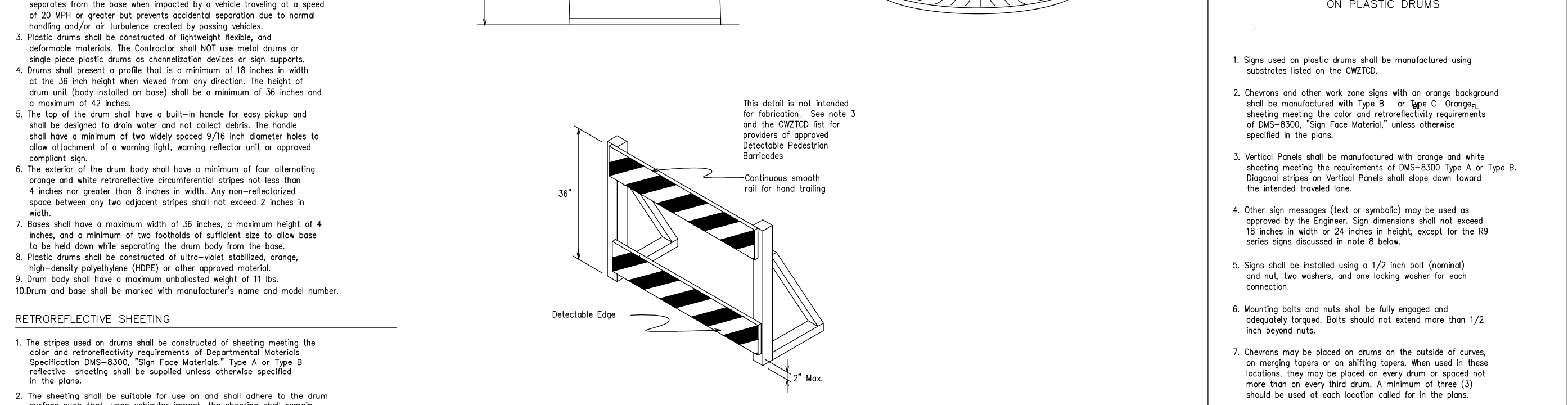


SKID MOUNTED PERFORATED SQUARE STEEL TUBING SIGN SUPPORTS
* LONG/INTERMEDIATE TERM STATIONARY - PORTABLE SKID MOUNTED SIGN SUPPORTS

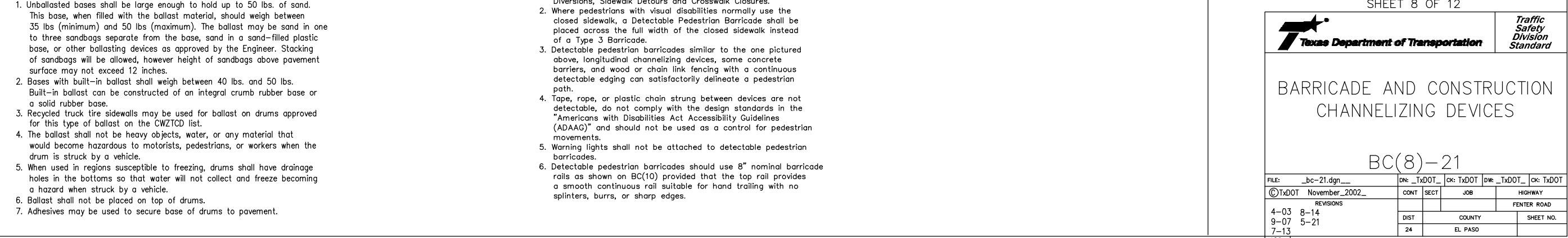
WEDGE ANCHORS
Best steel and plastic Wedge Anchor Systems as shown on the SMO (Standard) Sheet may be used as temporary sign supports for signs up to 10 square feet of sign area. They may be set in concrete or sturdy masonry if approved by the Engineer. (See web address for Traffic Engineering Standard Sheet on BC(7)).



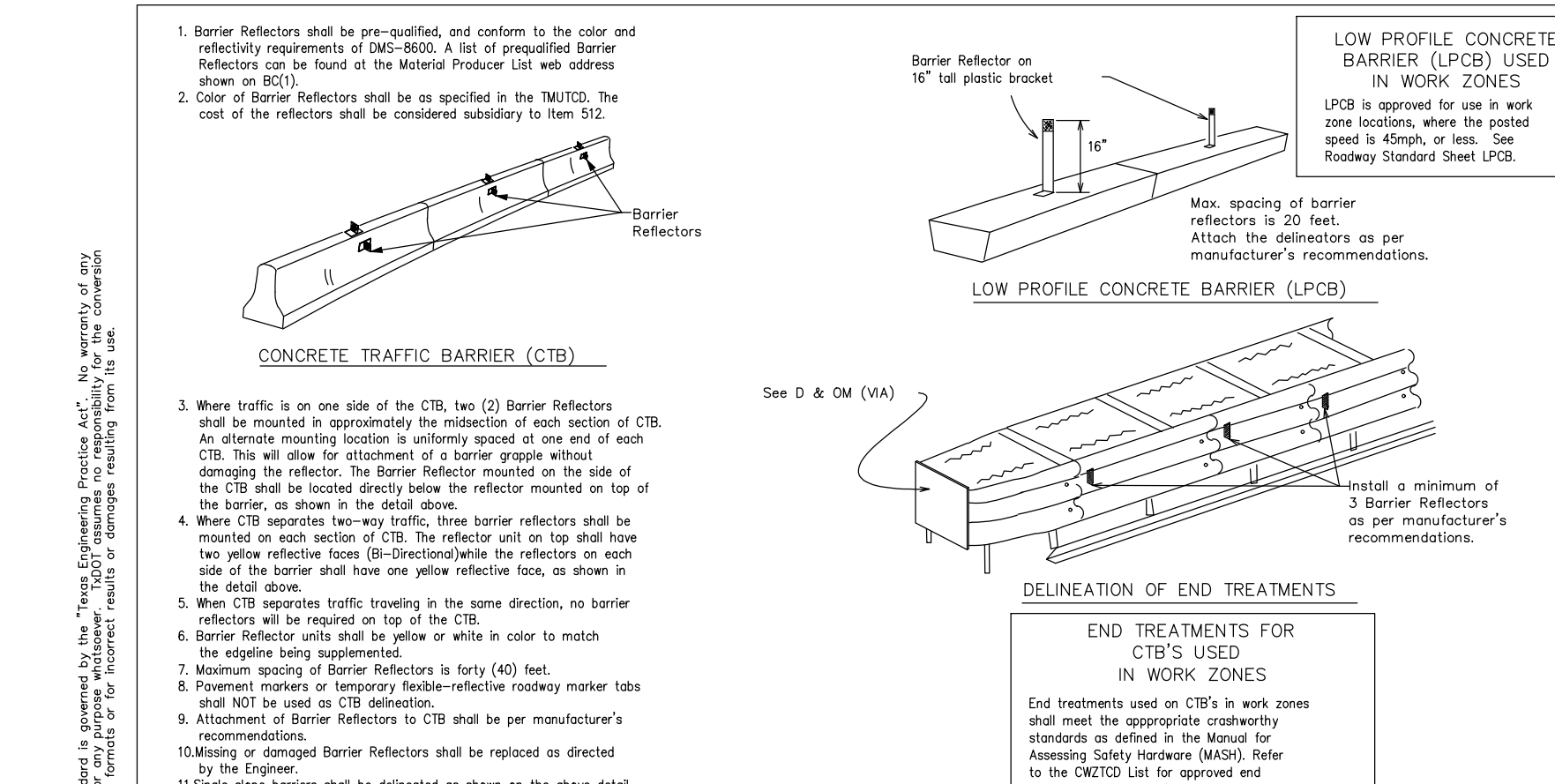
BARRICADE AND CONSTRUCTION TYPICAL SIGN SUPPORT
BC(5)-21



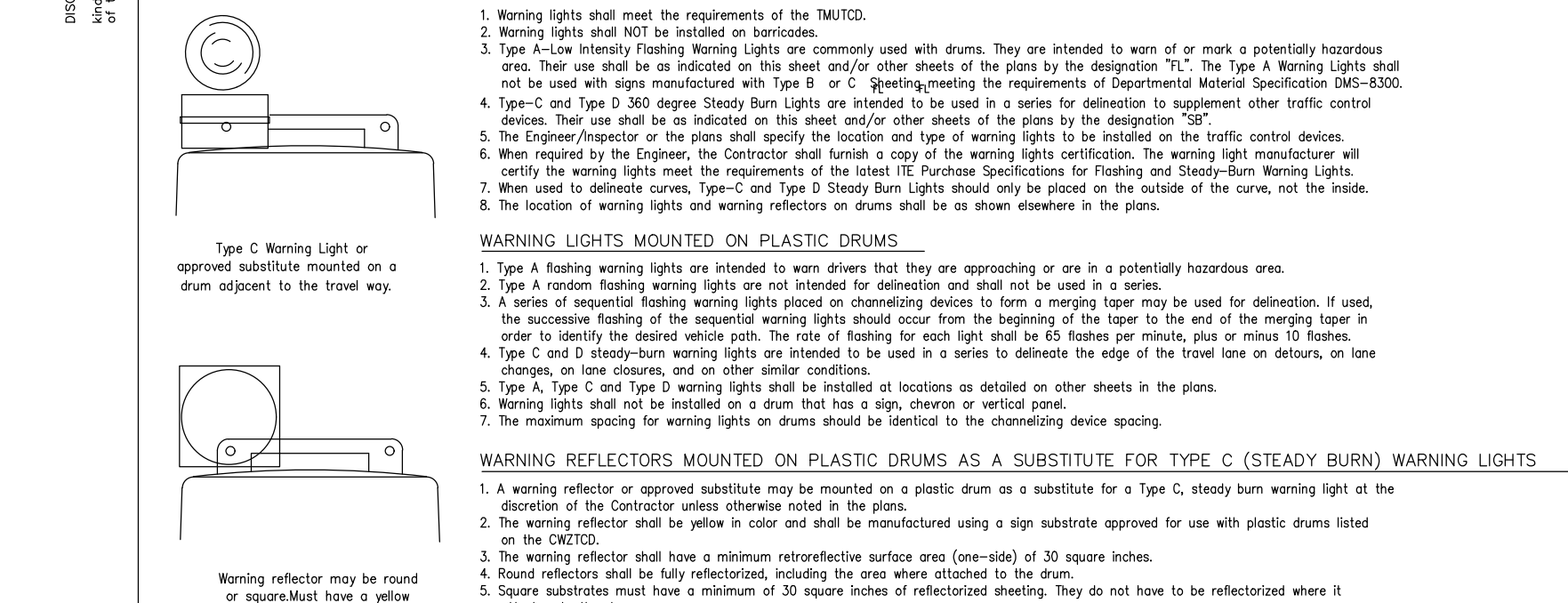
SIGNS, CHEVRONS, AND VERTICAL PANELS MOUNTED ON PLASTIC DRUMS



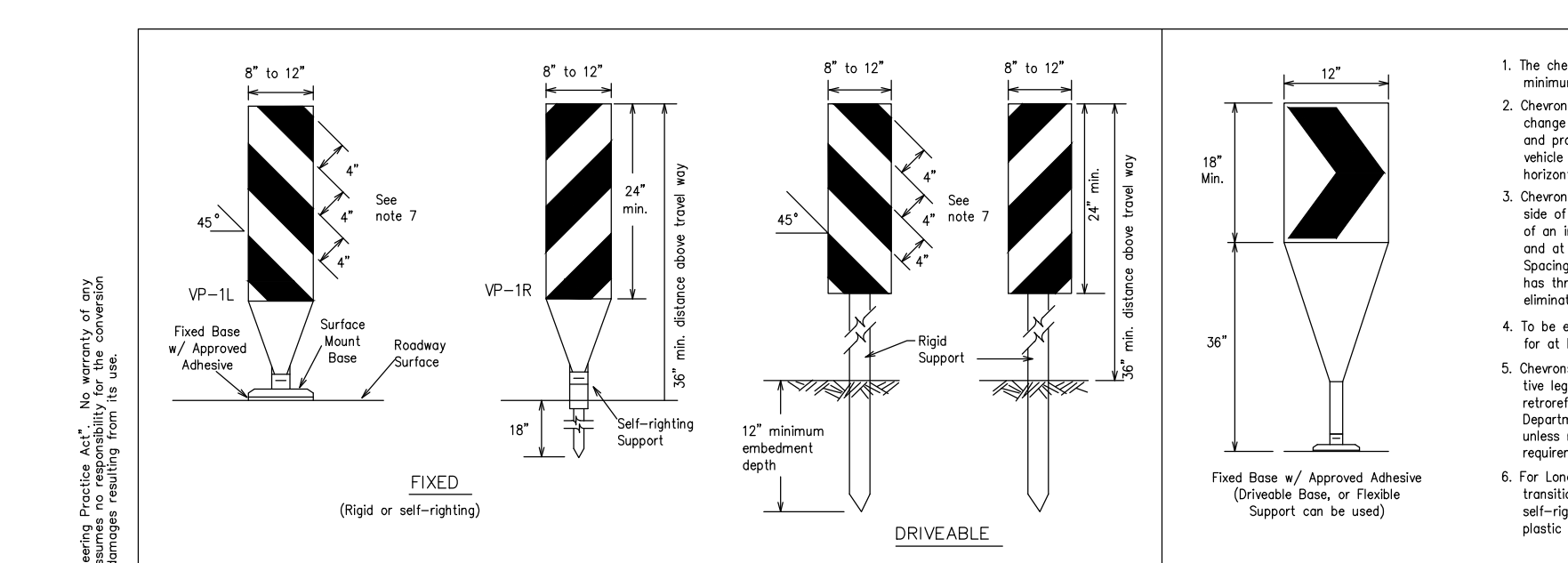
BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES
BC(8)-21



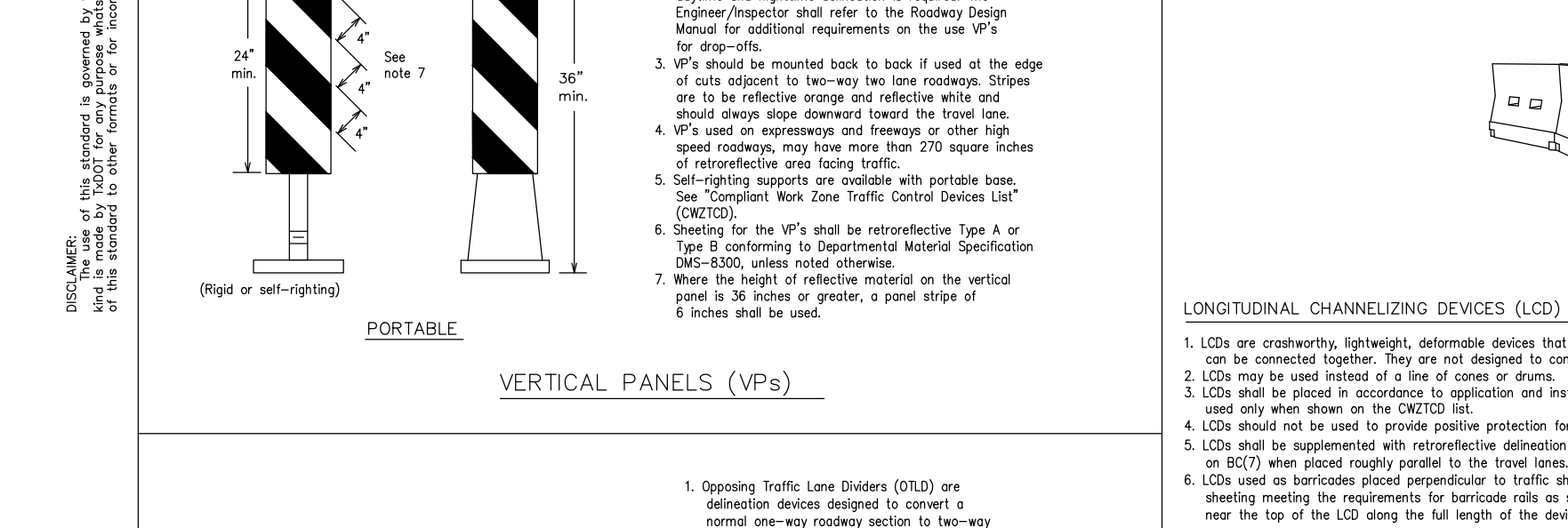
BARRIER REFLECTORS FOR CONCRETE TRAFFIC BARRIER AND ATTENUATORS



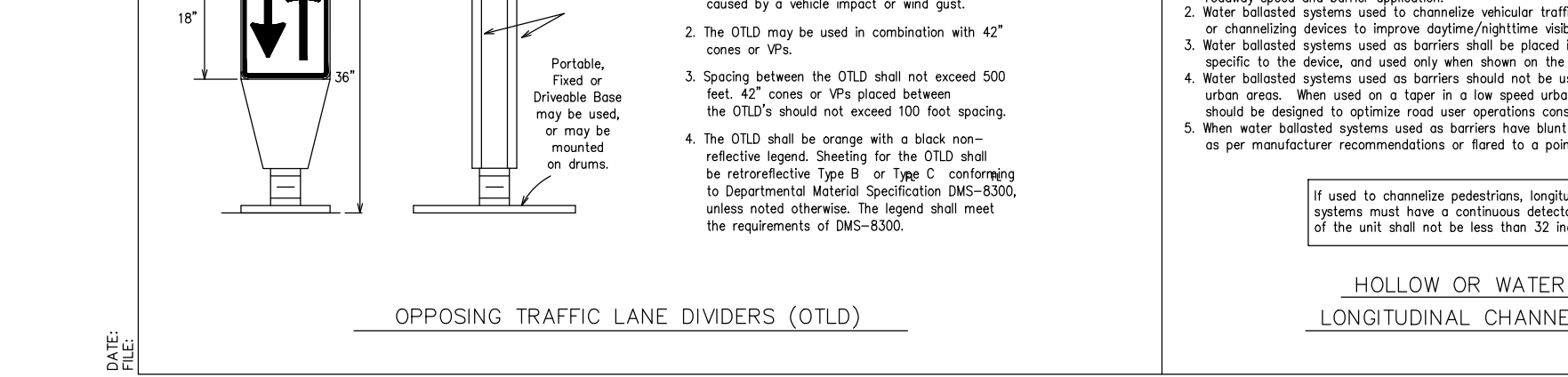
FLASHING ARROW BOARDS
SHEET 7 OF 12



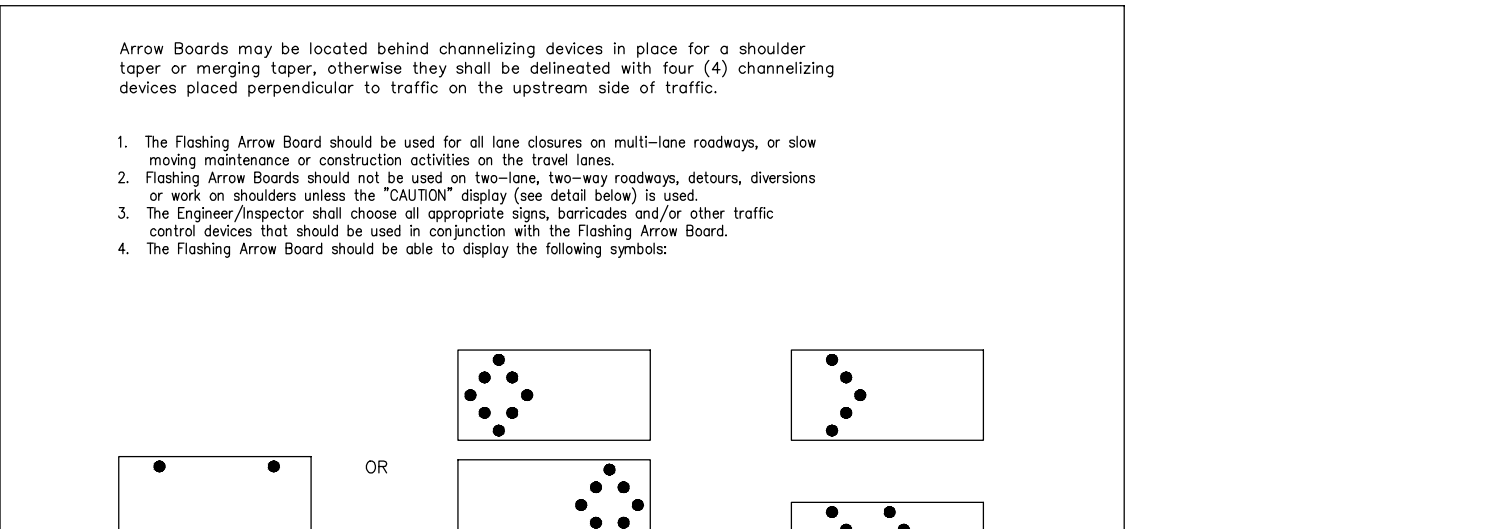
TRUCK-MOUNTED ATTENUATORS
BARRICADE AND CONSTRUCTION ARROW PANEL, REFLECTORS, WARNING LIGHTS & ATTENUATOR



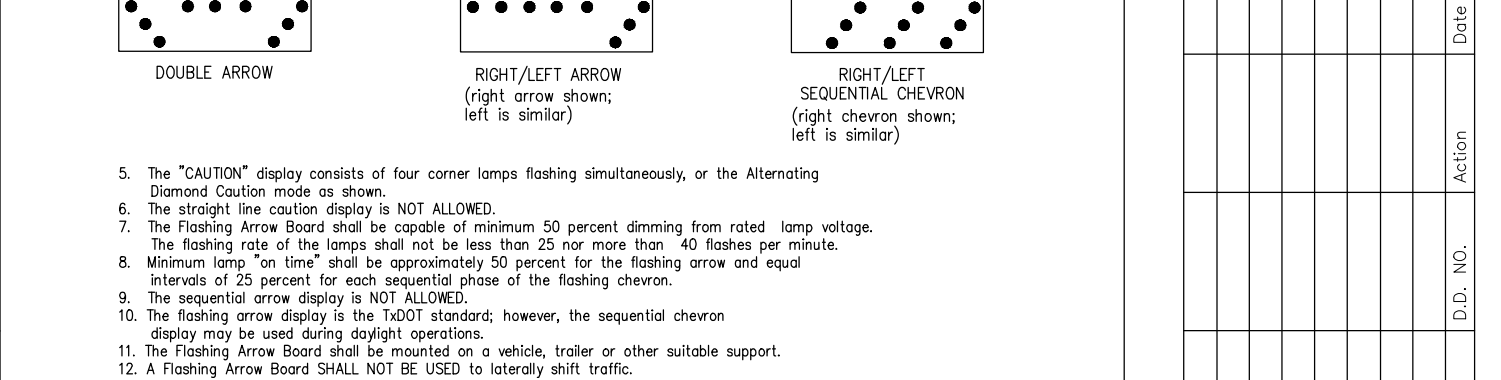
LONGITUDINAL CHANNELIZING DEVICES (LCD)



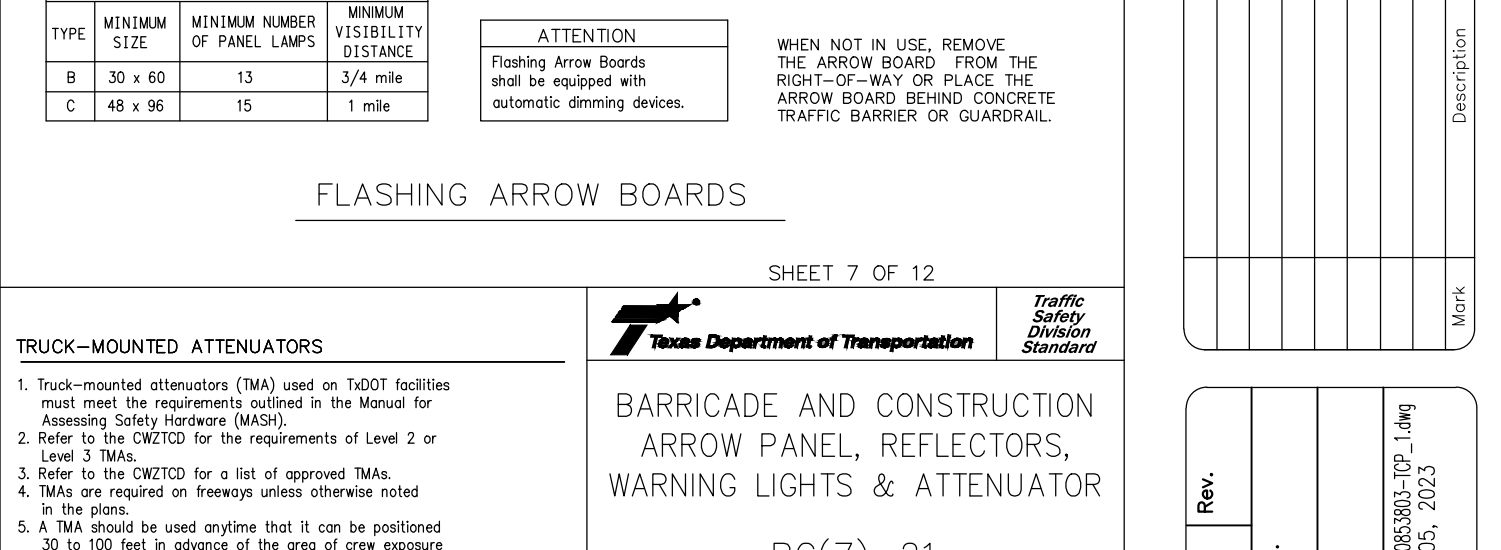
WATER BALLASTED SYSTEMS USED AS BARRIERS
SHEET 9 OF 12



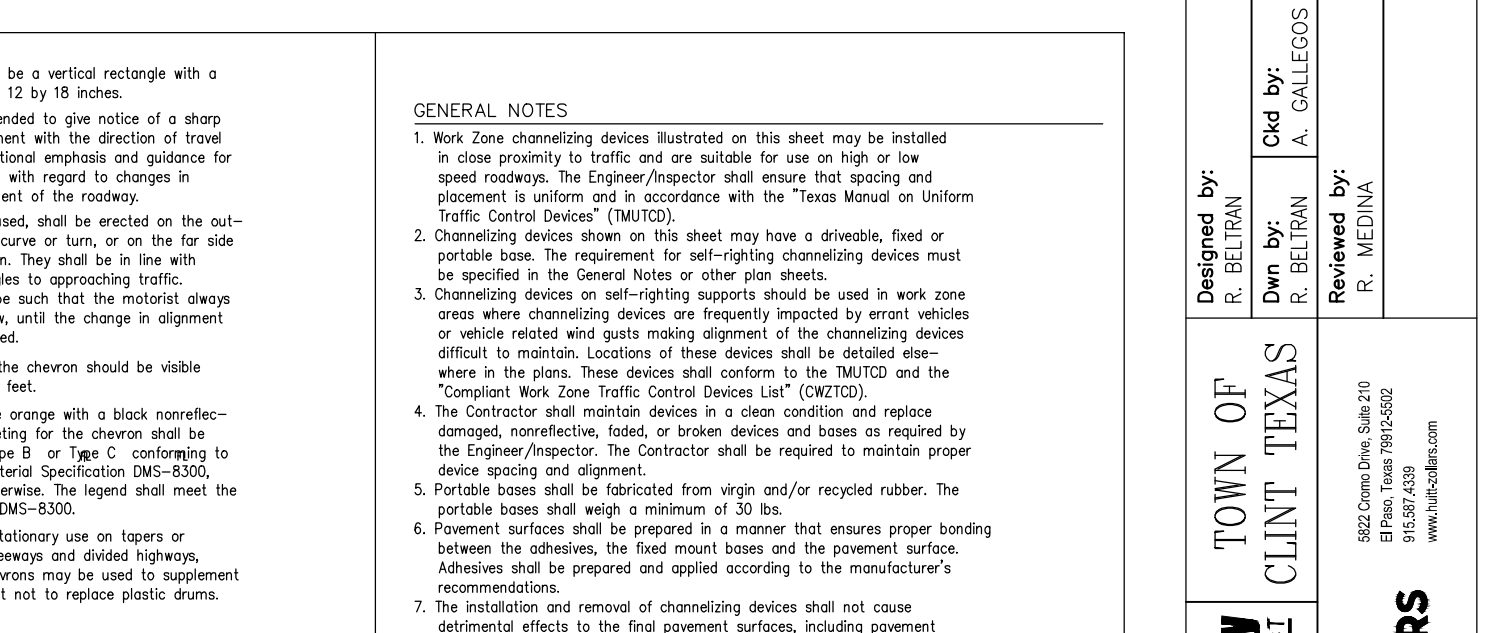
LOW PROFILE CONCRETE BARRIER (LPCB)
LPCB is approved for use in work zones locations, where the posted speed is 40 mph or less. See Roadway Standard Sheet LPCB.



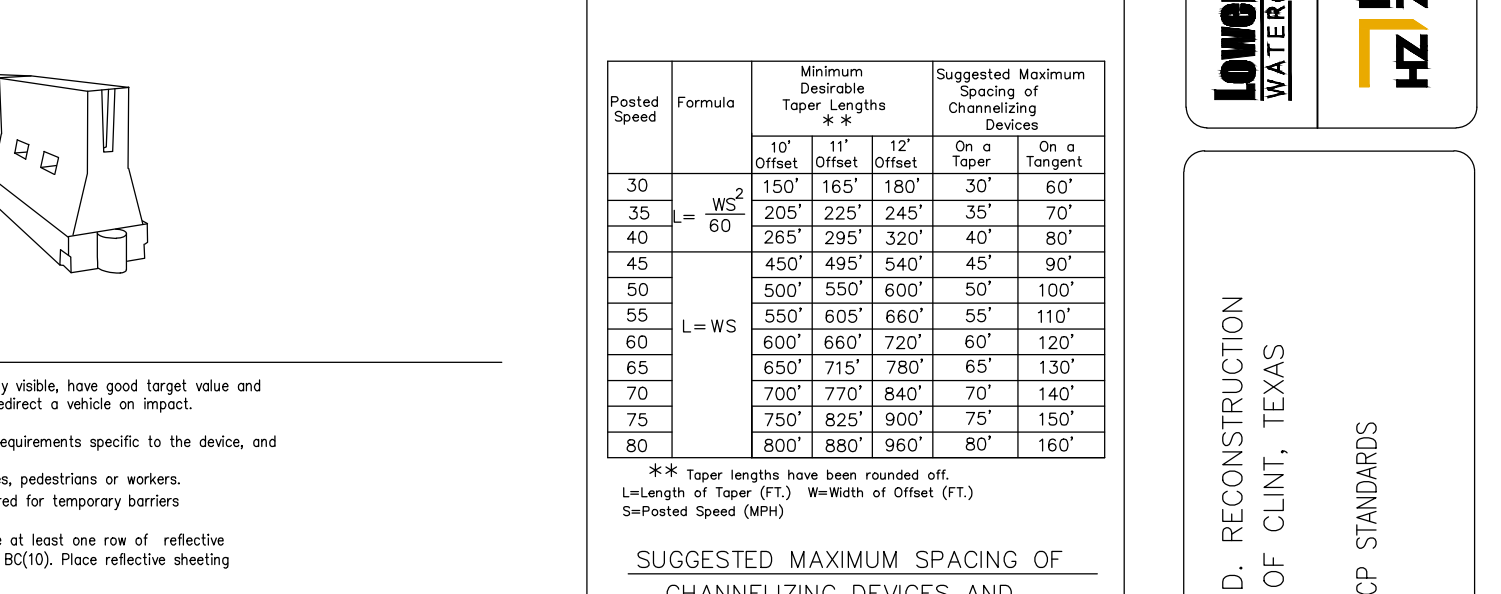
END TREATMENTS FOR CTB'S IN WORK ZONES



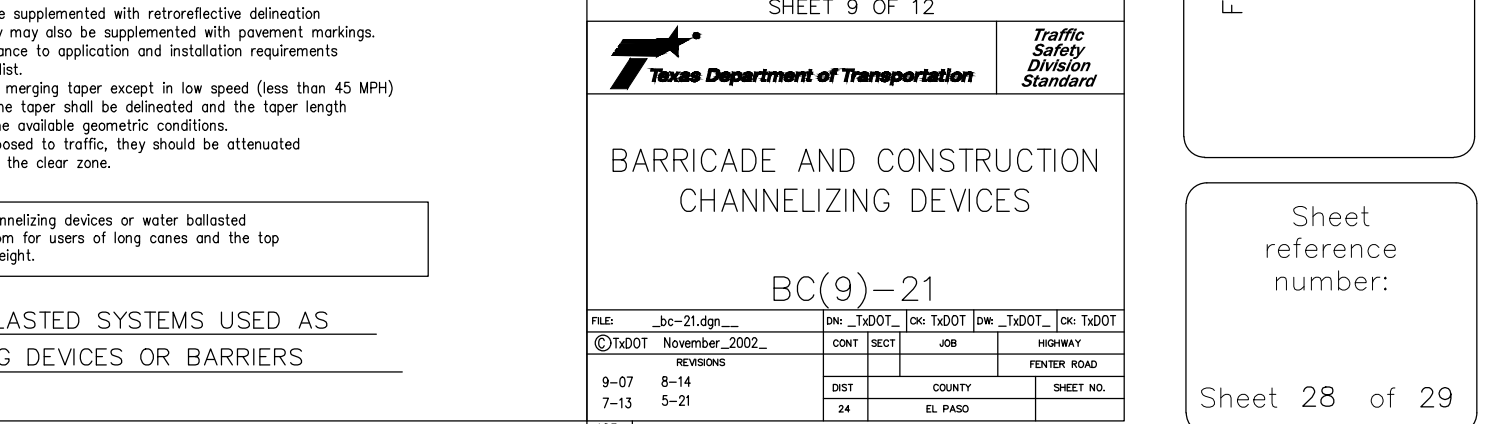
BARRICADE AND CONSTRUCTION ARROW PANEL, REFLECTORS, WARNING LIGHTS & ATTENUATOR
BC(7)-21



CHEVRONS



SUGGESTED MAXIMUM SPACING OF CHANNELIZING DEVICES AND MINIMUM DESIRABLE TAPER LENGTHS



HOLLOW OR WATER BALLASTED SYSTEMS USED AS LONGITUDINAL CHANNELIZING DEVICES OR BARRIERS
BC(9)-21

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DATE: FILE: 11/13/13

DISCLAIMER: This information is furnished by the Texas Engineering Practice Act. No warranty of any kind is made by the State of Texas for the use of this information for any purpose other than that intended. The user assumes all responsibility for the use of this information for any purpose other than that intended. The user assumes all responsibility for the use of this information for any purpose other than that intended.

DATE: FILE: 11/13/13

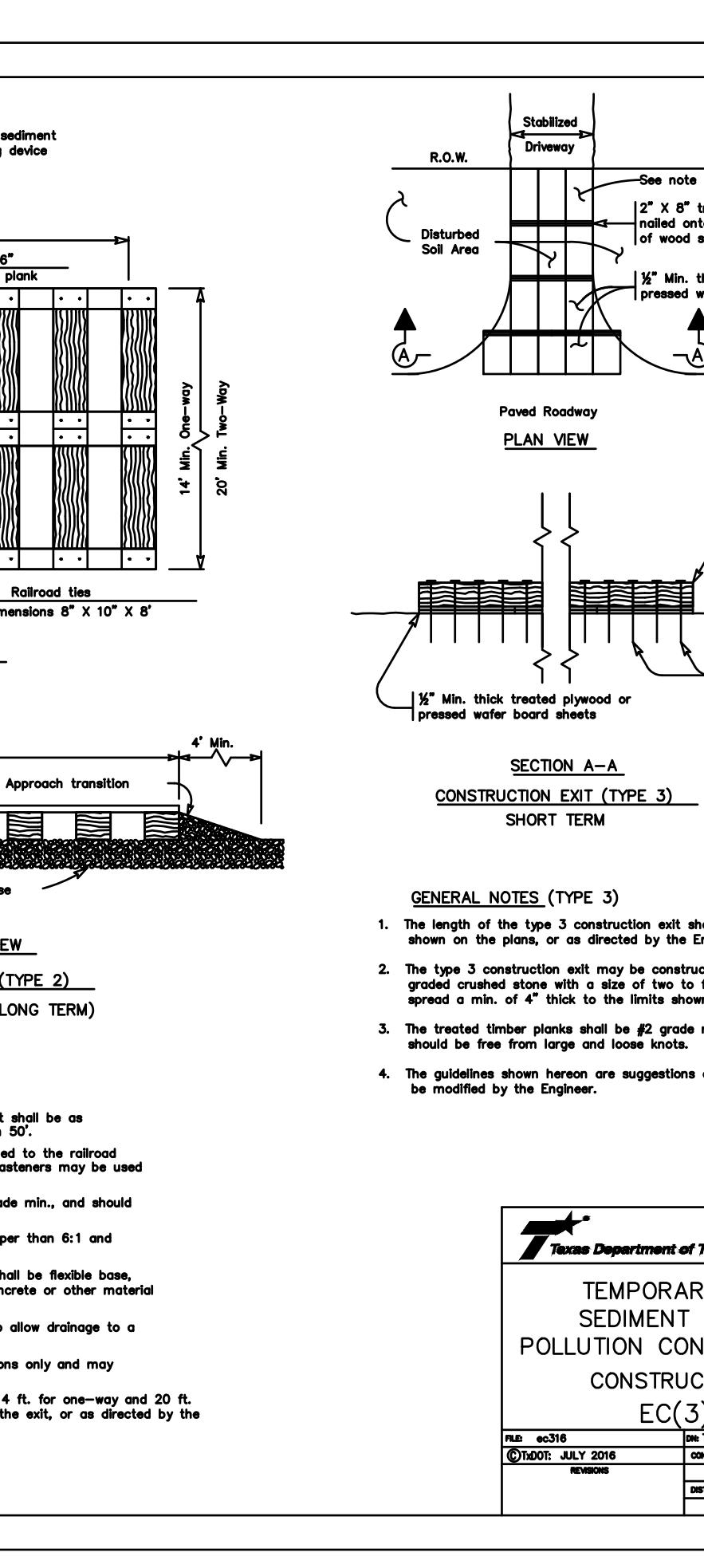
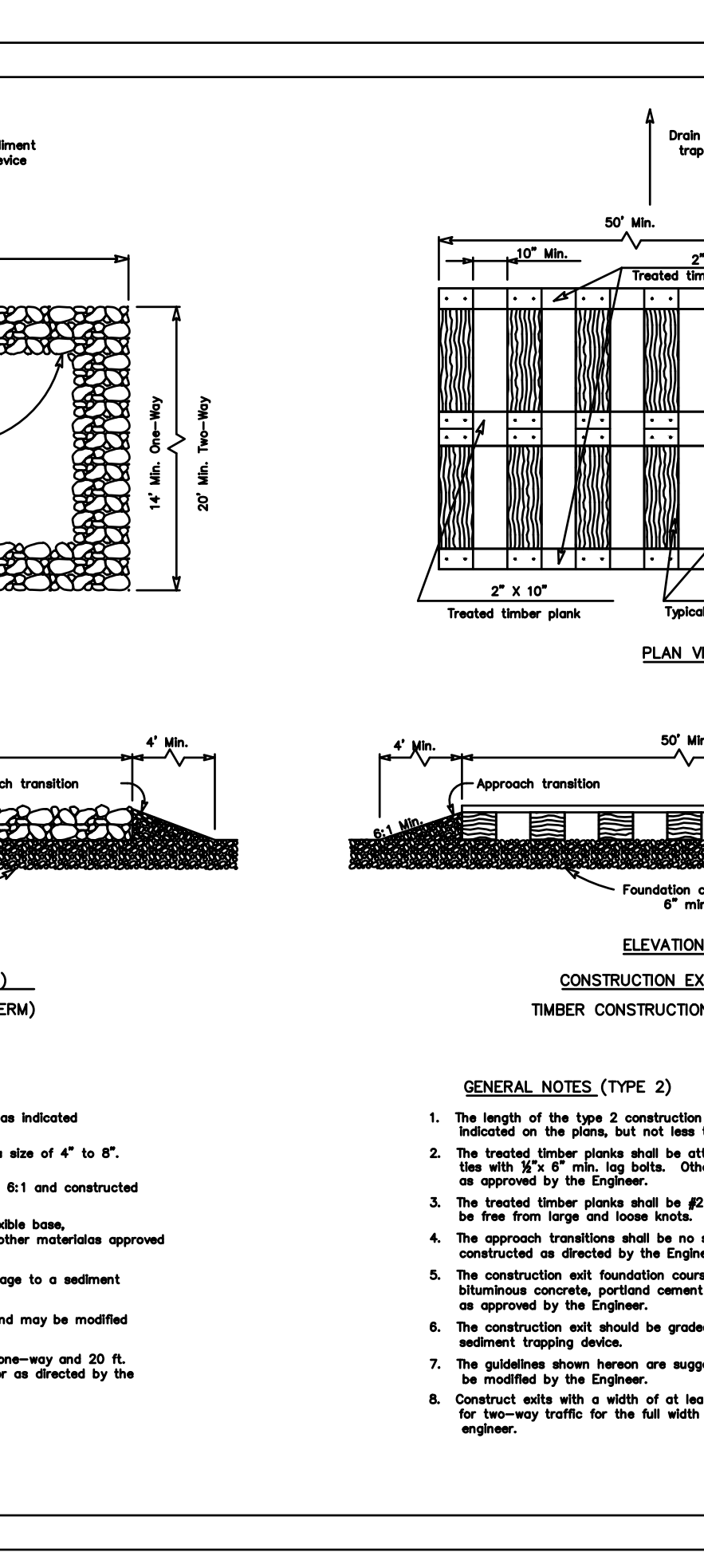
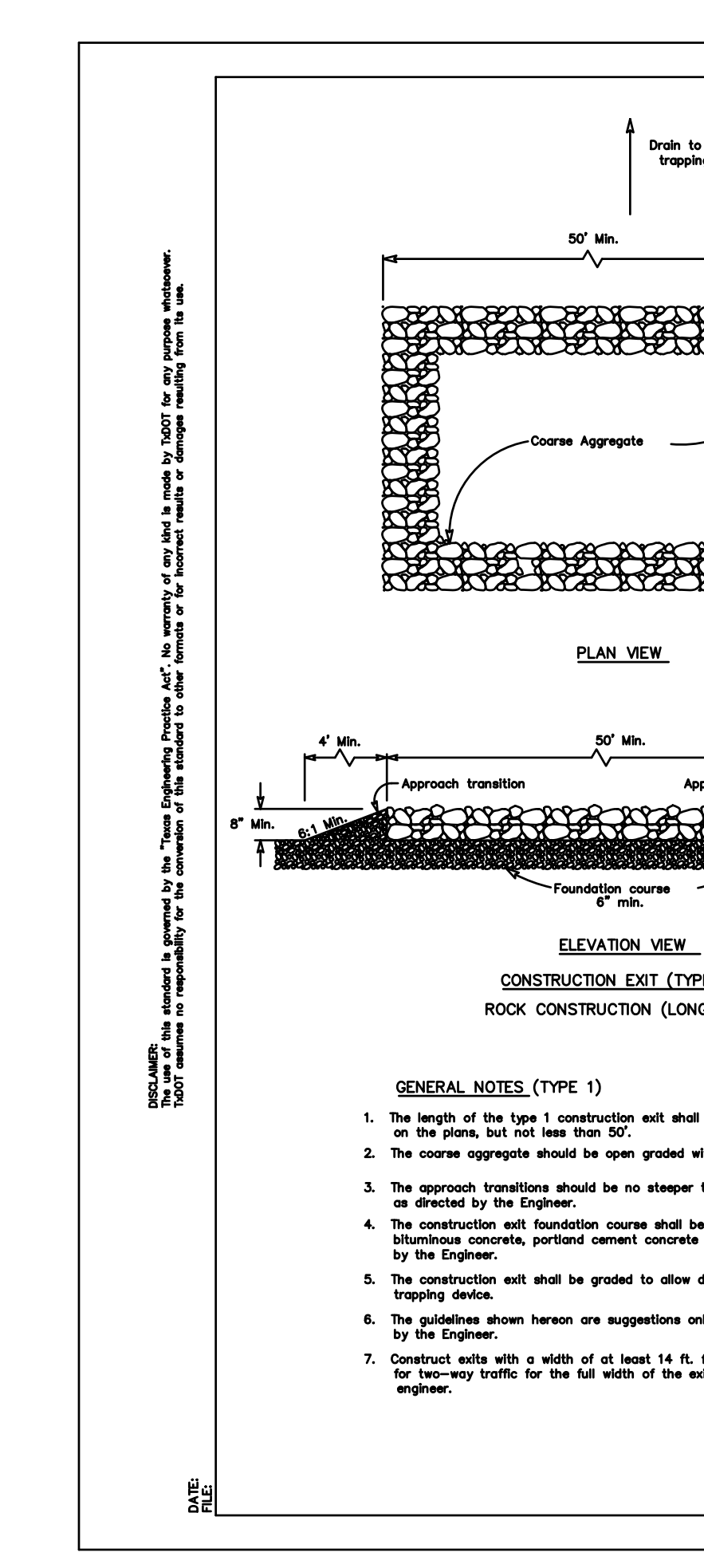
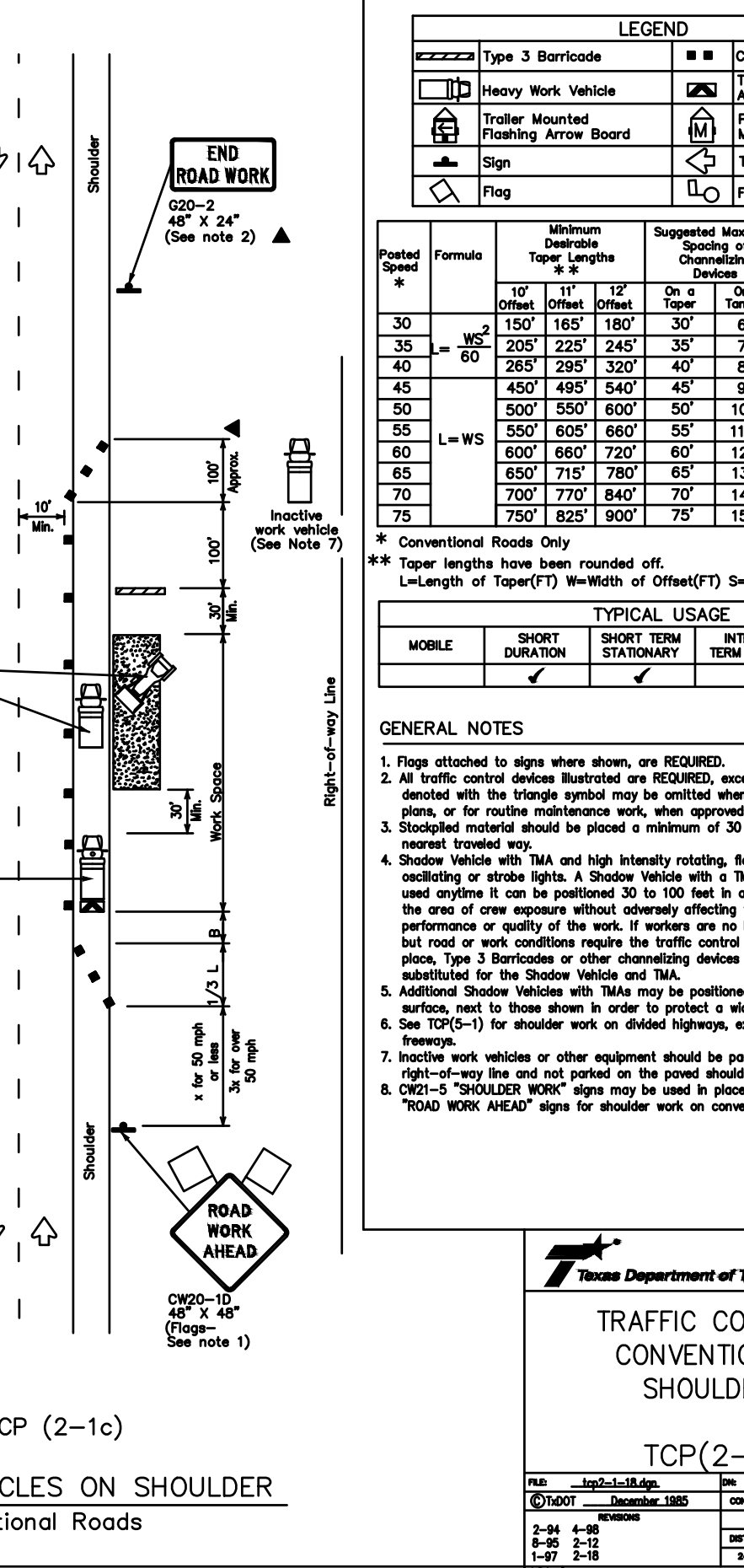
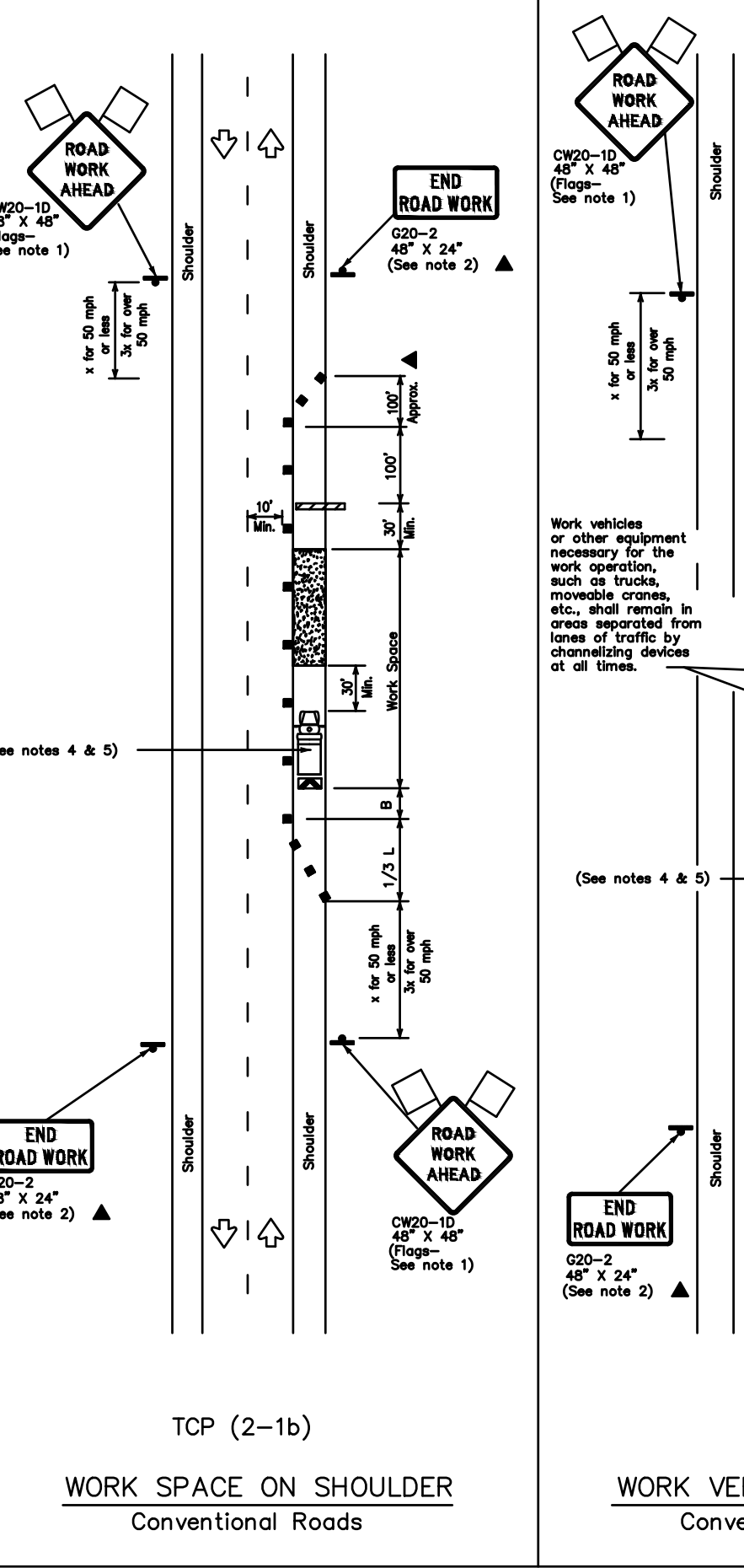
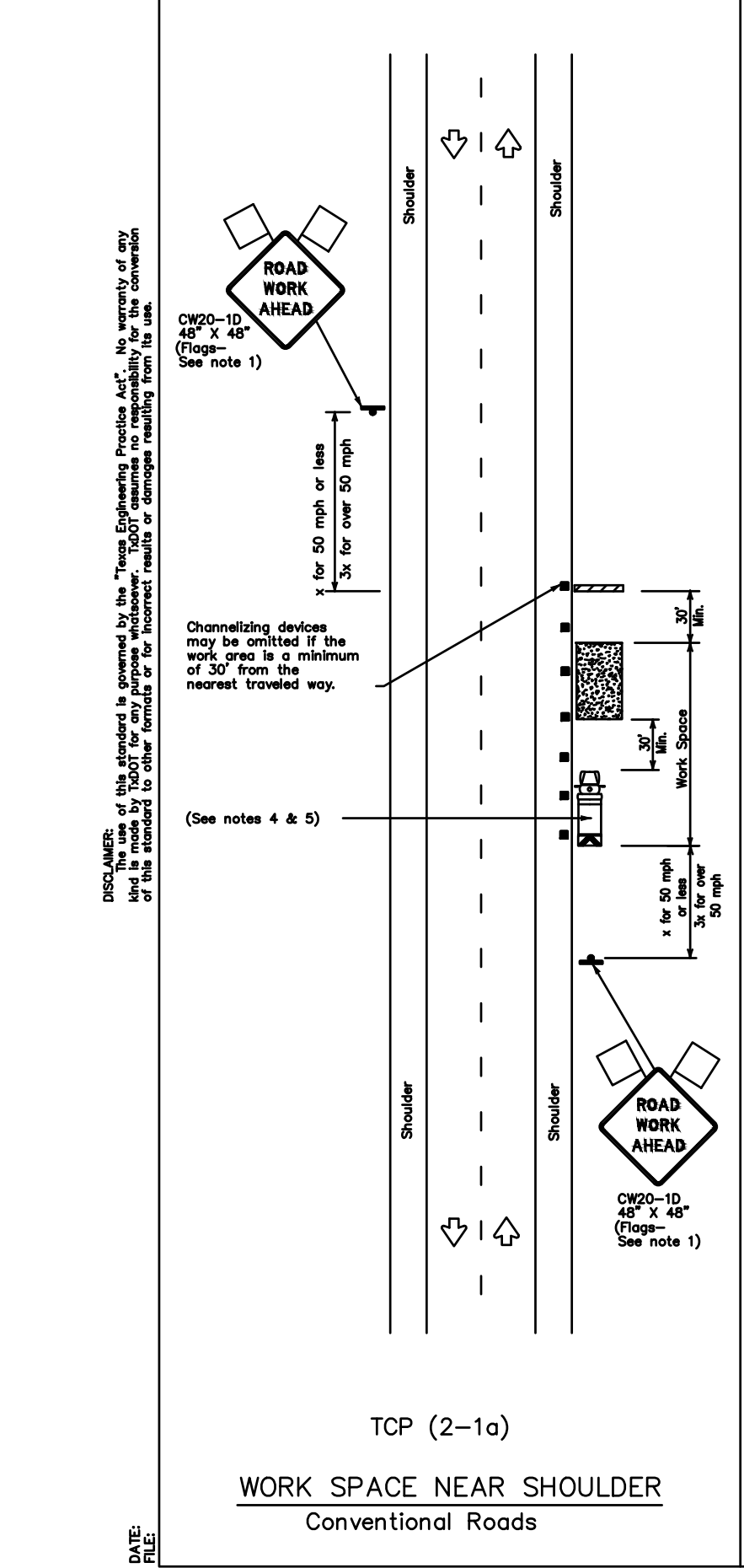
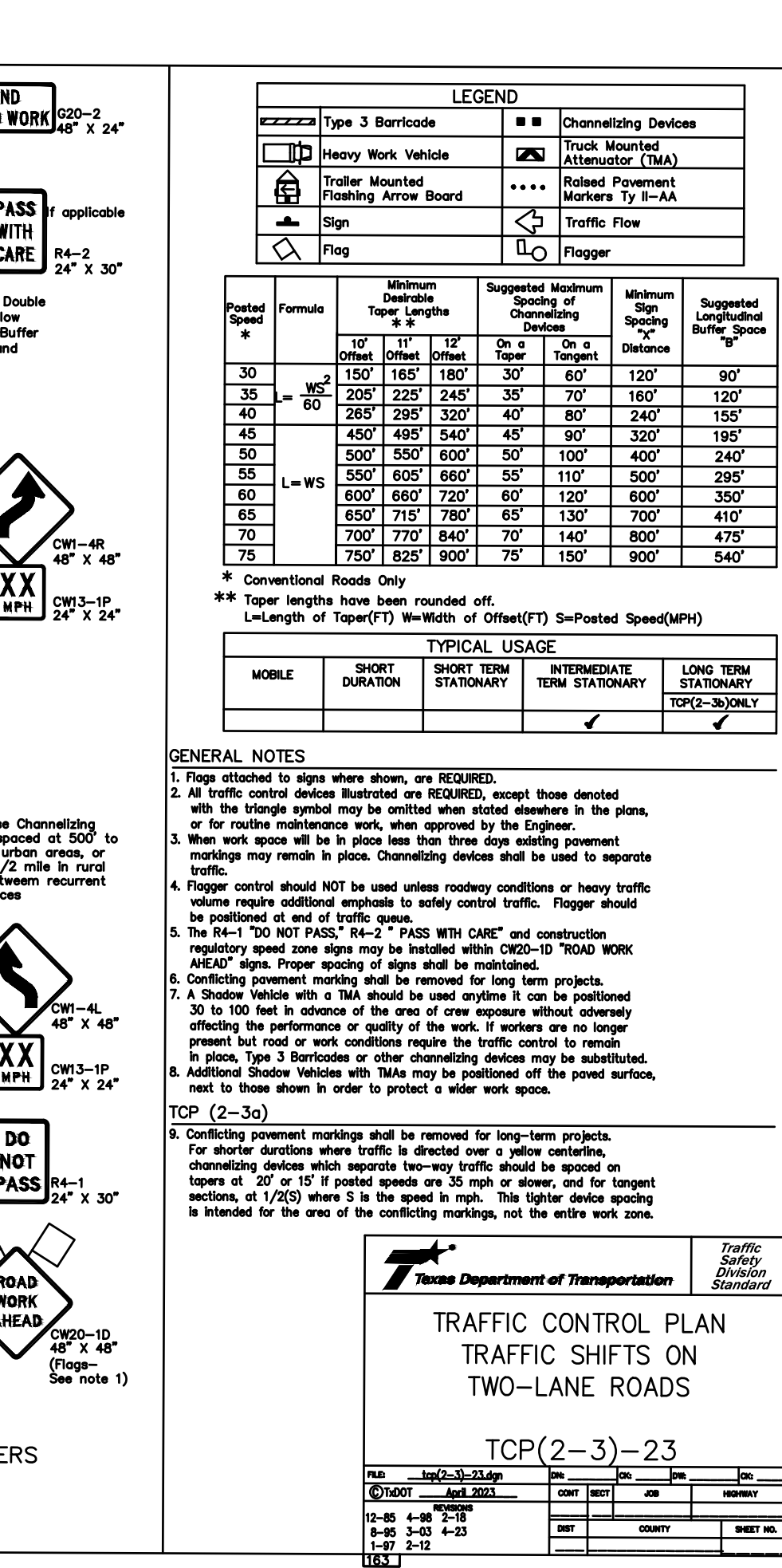
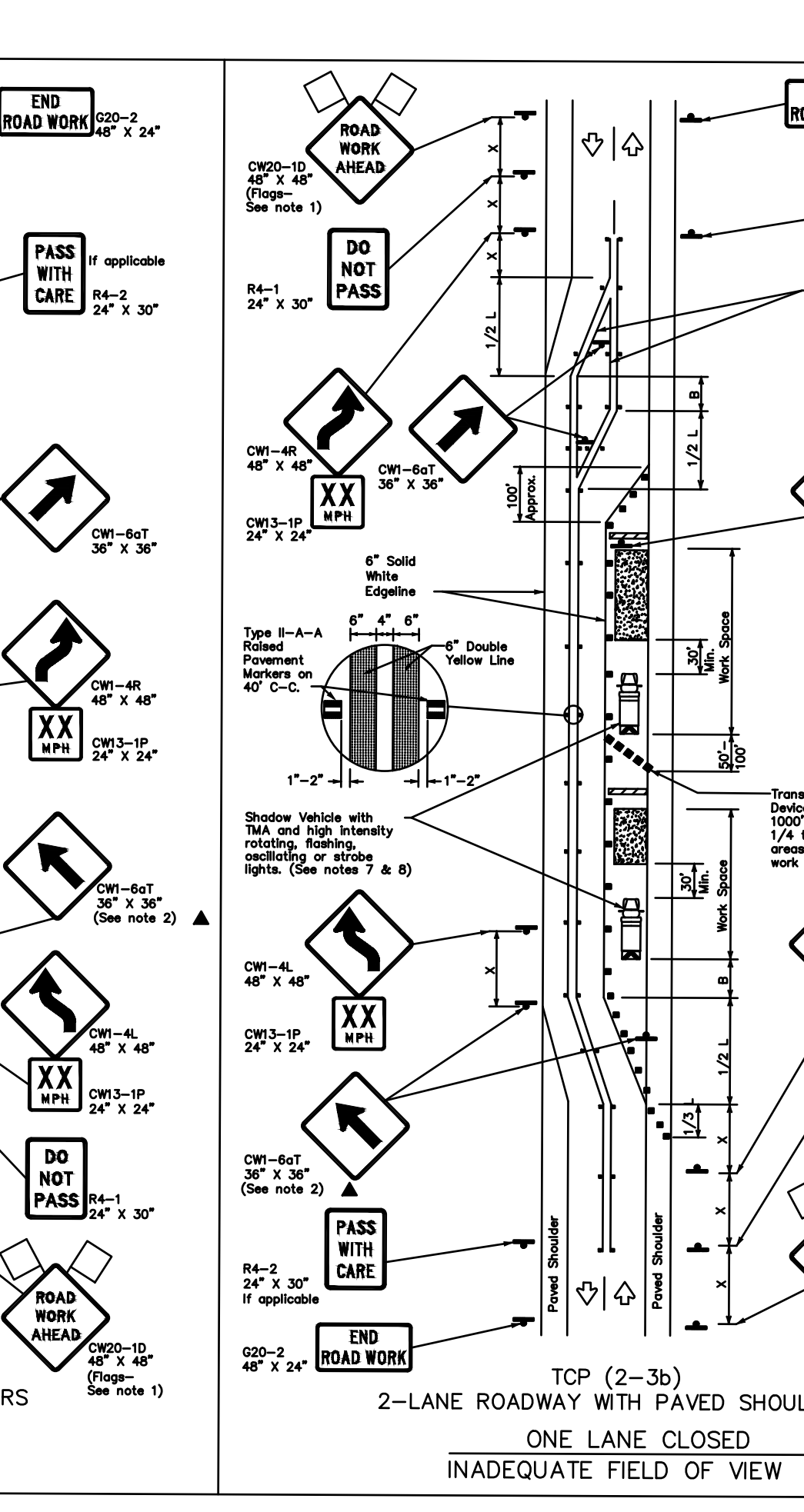
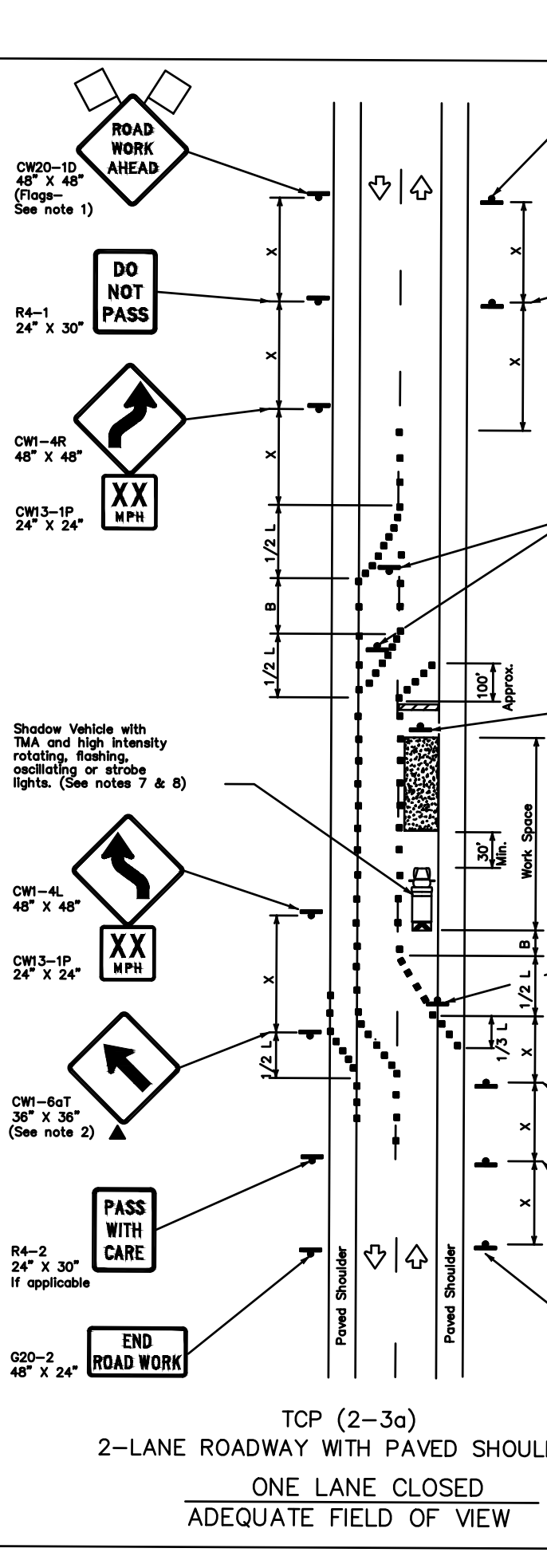
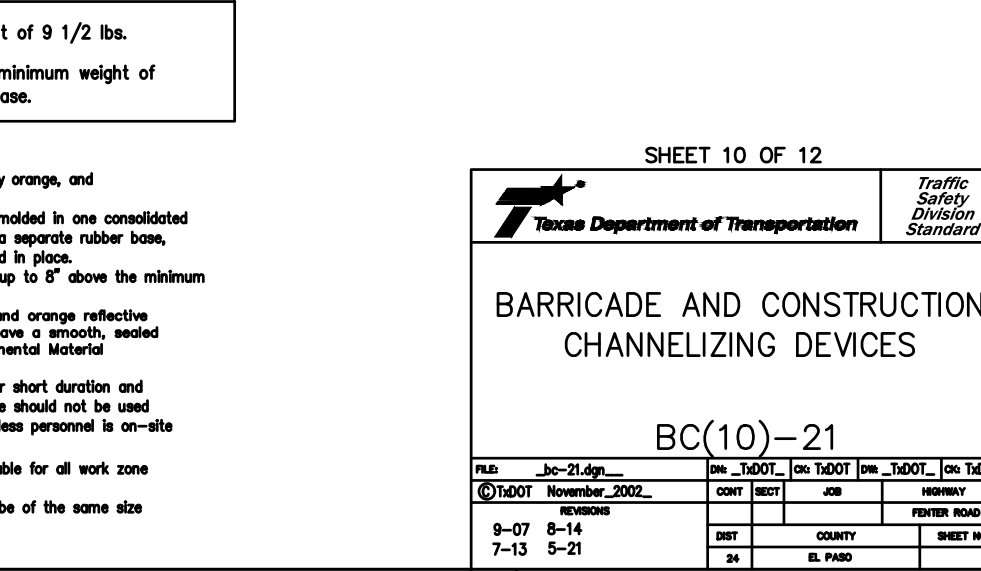
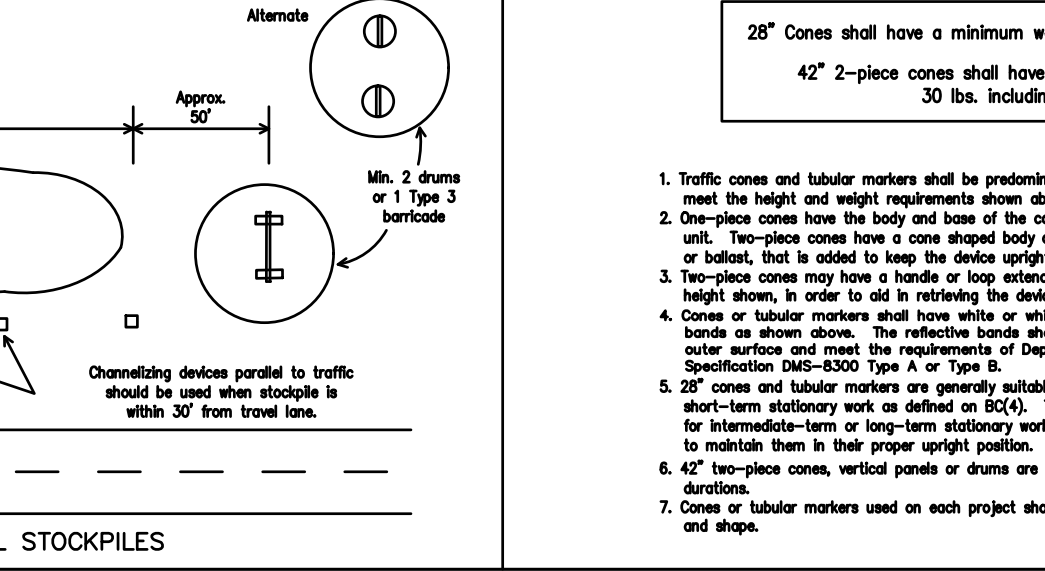
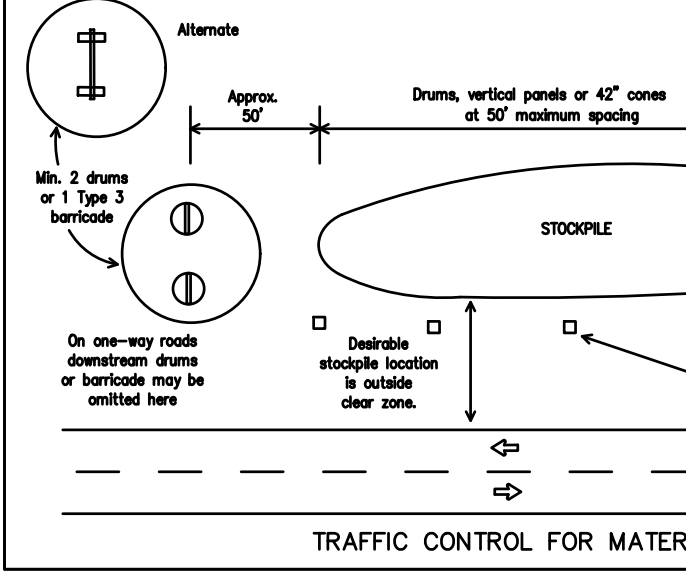
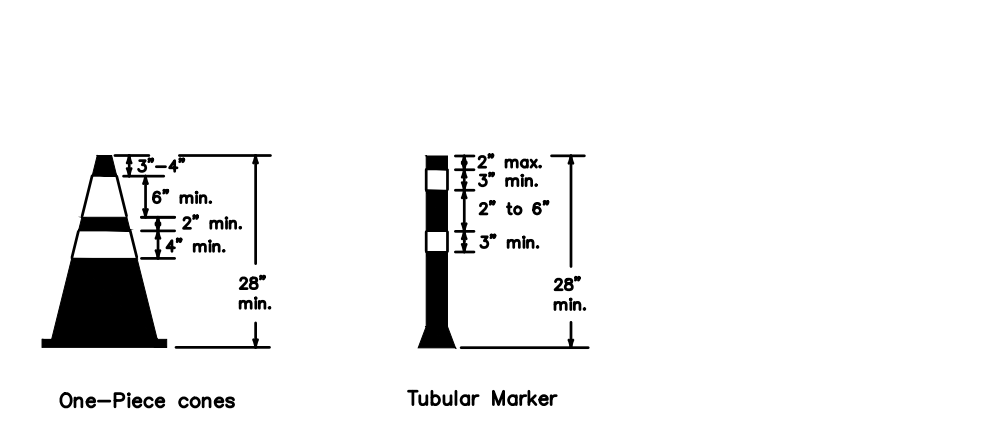
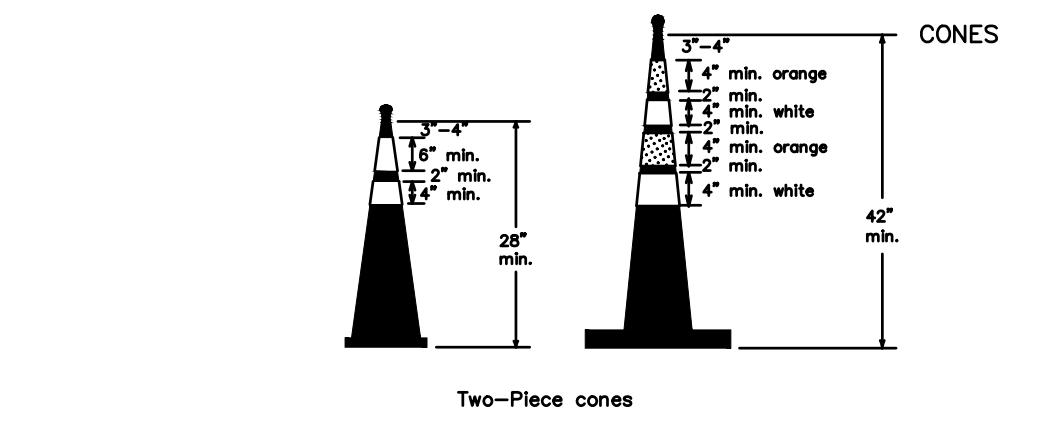
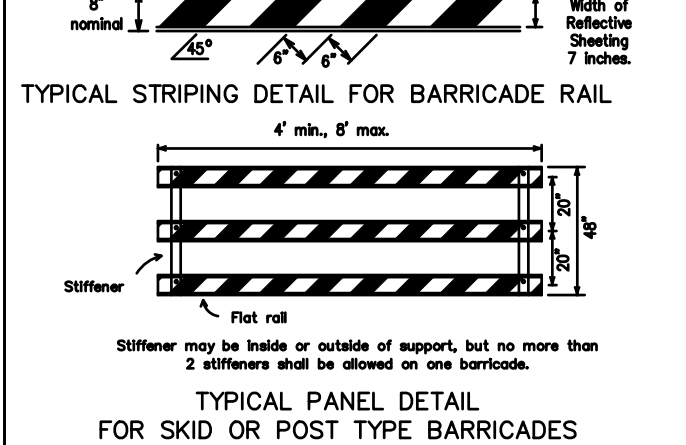
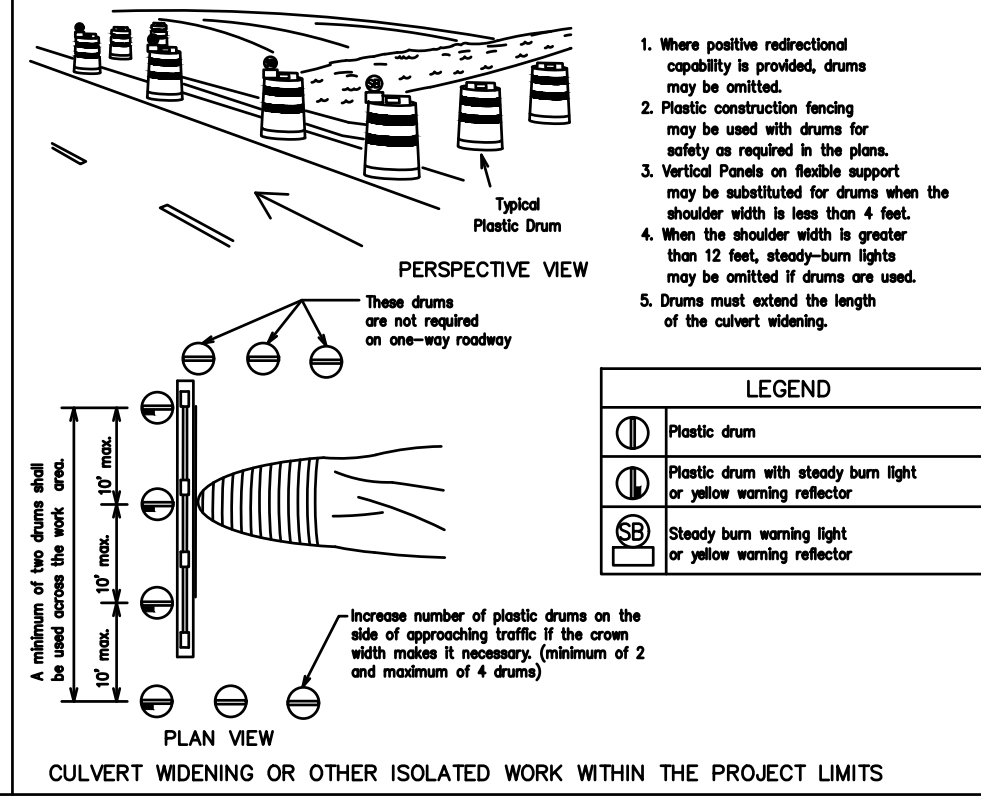
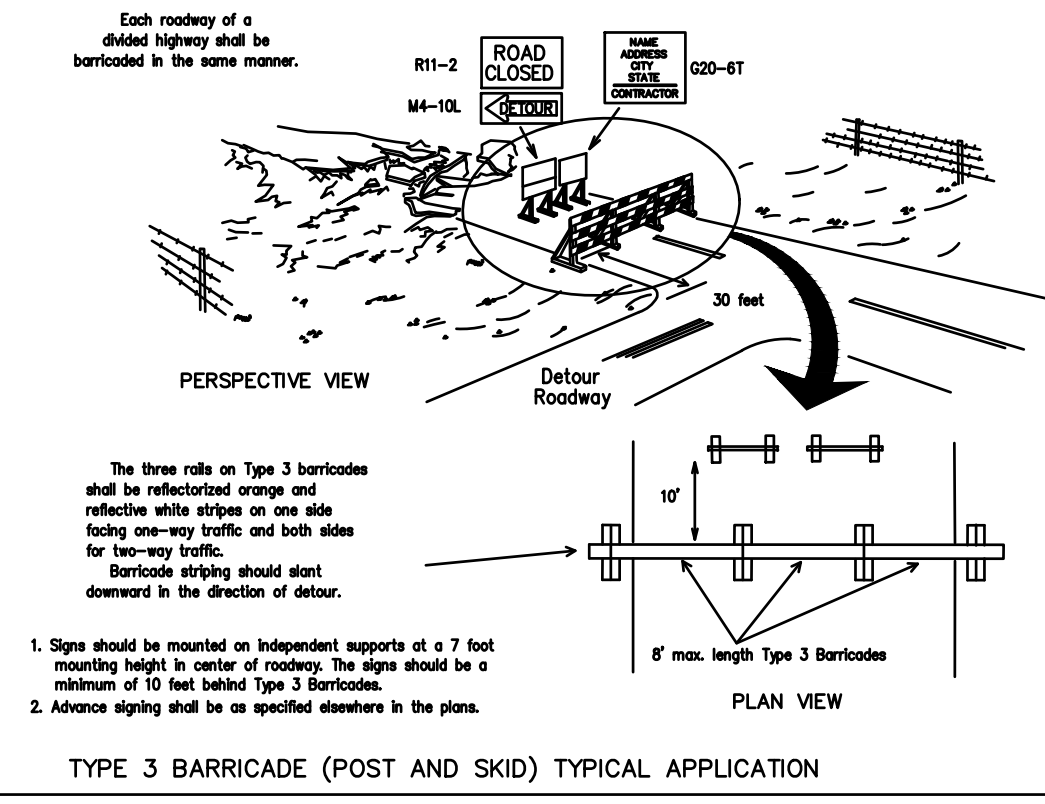
Date	Design	Rev.	Description	Action
11/13/13	1	1	Initial Design	
11/13/13	1	2	Revised Design	
11/13/13	1	3	Final Design	

Date	Design	Rev.	Description	Action
11/13/13	1	1	Initial Design	
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Date	Design	Rev.	Description	Action
11/13/13	1	1	Initial Design	
11/13/13	1	2	Revised Design	
11/13/13	1	3	Final Design	

TYPE 3 BARRICADES

- Refer to the Complete Work Zone Traffic Control Device List (CWTCDL) for details of the Type 3 Barricade and a list of all materials used in the construction of Type 3 Barricades.
- Type 3 Barricades shall be used at each end of construction projects closed to all traffic.
- Barricades extending across a roadway should have stripes that slope downward in the direction toward which traffic must turn in detouring. When both right and left lanes are provided, the chevrons striping may slope downward in both directions from the center of the barricade. Where no lanes are provided at a closed road, striping should slope downward in both directions toward the center of the roadway.
- Striping of rolls, for the right side of the roadway, should slope downward to the left. For the left side of the roadway, striping should slope downward to the right.
- Identification markings may be shown only on the back of the barricade rolls. The maximum height of letters and/or company logos used for identification shall be 1".
- Barricades shall not be placed parallel to traffic unless an adequate clear zone is provided.
- Warning lights shall NOT be installed on barricades.
- Where barricades require the use of weights to keep from turning over, the use of non-toxic weights such as concrete sand is recommended. The sandbags will be used to keep the sand from spilling and to maintain a constant weight. Sand bags shall not be attached in a manner that covers any portion of a barricade roll's reflective sheeting. Rock, concrete, iron, steel or other solid objects will NOT be permitted. Sandbags (such as the lesser label) shall not be used for barricades. 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 ropes, wires, chains or other fasteners.
- Sheeting for barricades shall be retroreflective Type A or B class chevron lenses.



LEGEND

Type 3 Barricade	Channelizing Devices
Heavy Work Vehicle	Truck Mounted Attenuator (TMA)
Traffic Flow	Portable Changeable Message Sign (PCMS)
Flag	Flagger

TRAFFIC CONTROL PLAN CONVENTIONAL ROAD SHOULDER WORK

TRAFFIC CONTROL PLAN CONVENTIONAL ROAD SHOULDER WORK

TRAFFIC CONTROL PLAN CONVENTIONAL ROAD SHOULDER WORK

TRAFFIC CONTROL PLAN CONVENTIONAL ROAD SHOULDER WORK

TRAFFIC CONTROL PLAN CONVENTIONAL ROAD SHOULDER WORK

TRAFFIC CONTROL PLAN CONVENTIONAL ROAD SHOULDER WORK

DATE: 12-18-13

DESIGNED BY: R. BELTRAN

DRAWN BY: R. BELTRAN

CHECKED BY: R. BELTRAN

APPROVED BY: R. BELTRAN

DATE: 12-18-13

DESIGNED BY: R. BELTRAN

DRAWN BY: R. BELTRAN

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DRAWN BY: R. BELTRAN

CHECKED BY: R. BELTRAN

APPROVED BY: R. BELTRAN

Revised	Date	By	Description
1	12-18-13	R. BELTRAN	Initial Design
2	12-18-13	R. BELTRAN	Revised Design
3	12-18-13	R. BELTRAN	Final Design

DESIGNED BY: R. BELTRAN

DRAWN BY: R. BELTRAN

CHECKED BY: R. BELTRAN

APPROVED BY: R. BELTRAN

DATE: 12-18-13

PROJECT NO.: 13-000000-0000

SHEET NO.: 29 OF 29