

# MIDLAND COUNTY

## Plans for the Reconstruction of

# SOUTH COUNTY ROAD 1180

## FROM CITY LIMITS TO

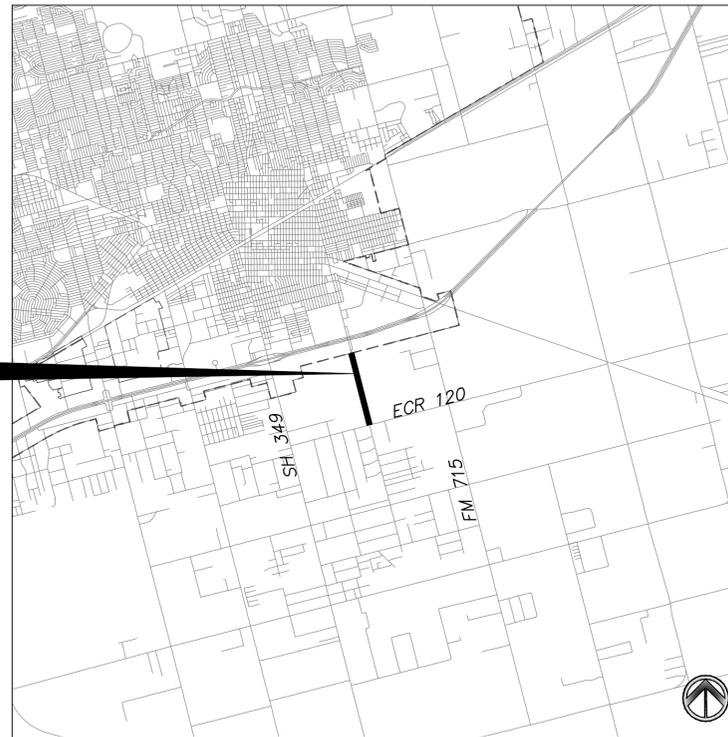
# EAST COUNTY ROAD 120

OWNER:  
MIDLAND COUNTY  
MIDLAND, TEXAS

ENGINEER:  
DUNAWAY ASSOCIATES, L.P.  
4000 N. BIG SPRING, SUITE 101  
MIDLAND, TEXAS 79705  
MAIN: 432-699-4889

UTILITY RELOCATION NOTE:  
IF ANY EXISTING UTILITY POLES, POWER POLES, GUY WIRES, TELEPHONE UTILITIES, ETC. ARE FOUND TO BE IN CONFLICT WITH THESE CONSTRUCTION PLANS. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANY AND COORDINATE THE RELOCATION OF ANY/OR ALL SUCH UTILITIES (NO SPECIAL PAY).

TEMPORARY IMPACTS IN WATERS OF THE U.S. NOTE:  
NATIONWIDE PERMIT 14 AUTHORIZES TEMPORARY STRUCTURES, FILLS, AND WORK, INCLUDING THE USE OF TEMPORARY MATS, NECESSARY TO CONSTRUCT THE LINEAR TRANSPORTATION PROJECT. APPROPRIATE MEASURES MUST BE TAKEN TO MAINTAIN NORMAL DOWNSTREAM FLOWS AND MINIMIZE FLOODING TO THE MAXIMUM EXTENT PRACTICABLE, WHEN TEMPORARY STRUCTURES, WORK, AND DISCHARGES, INCLUDING COFFERDAMS, ARE NECESSARY FOR CONSTRUCTION ACTIVITIES, ACCESS FILLS, OR DEWATERING OF CONSTRUCTION SITES. TEMPORARY FILLS MUST CONSIST OF MATERIALS, AND BE PLACED IN A MANNER, THAT WILL NOT BE ERODED BY EXPECTED HIGH FLOWS. TEMPORARY FILLS MUST BE REMOVED IN THEIR ENTIRETY AND THE AFFECTED AREAS RETURNED TO PRE-CONSTRUCTION ELEVATIONS. THE AREAS AFFECTED BY TEMPORARY FILLS MUST BE RE-VEGETATED, AS APPROPRIATE.



VICINITY MAP

NOT TO SCALE

### SHEET INDEX

SHEET NO.	DESCRIPTION
COVER	
1	GENERAL NOTES
2	TYPICAL ASPHALT SECTIONS
3	TYPICAL DRIVEWAY SECTIONS
4	TYPICAL EROSION CONTROL
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6	TxDOT MAILBOX DETAILS
7	TxDOT SIGNAGE DETAILS
8	TxDOT TRAFFIC CONTROL DETAILS
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11	TRAFFIC CONTROL PLAN
12	OVERALL ROADWAY STATIONING
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15	PLAN AND PROFILE
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22	SIGNAGE AND PAVEMENT MARKINGS

PLAN AND DETAILS

1 OF 3

2 OF 3

3 OF 3

ADVANCED WARNING SIGNS LAYOUT

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STA 22+00 TO 44+00

STA 44+00 TO END

0+00 TO 11+00

11+00 TO 22+00

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4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705  
Tel: 432.699.4889  
(TX REG. F-1114)

DA JOB NO. B006799.001

# MARCH 2022

PLANS FOR THE RECONSTRUCTION OF S.C.R. 1180 TO SERVE:  
FROM CITY LIMITS TO EAST COUNTY ROAD 120  
MIDLAND COUNTY, TEXAS



**WARNING TO CONTRACTOR:**

CALL 811 (TEXAS 811) OR OTHER UTILITY LOCATING SERVICES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY. DUNAWAY ASSOC., L.P. IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES OR DEPICTING EXACT LOCATIONS OF UTILITIES ON DRAWINGS.

**CRITICAL:**

LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND ARE BASED ON PUBLIC RECORDS. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES, BOTH HORIZONTALLY AND VERTICALLY, BEFORE THE COMMENCEMENT OF ANY CONSTRUCTION.

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IF ANY EXISTING UTILITY POLES, POWER POLES, GUY WIRES, TELEPHONE UTILITIES, ETC. ARE FOUND TO BE IN CONFLICT WITH THESE CONSTRUCTION PLANS, THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANY AND COORDINATE THE RELOCATION OF ANY/OR ALL SUCH UTILITIES (NO SPECIAL PAY).

**STATE PLANE COORDINATE NOTE:**

COORDINATES PROVIDED ARE RELATIVE TO THE TEXAS STATE PLANE COORDINATE SYSTEM (NAD83), CENTRAL ZONE 4203; ALL COORDINATES, BEARINGS, AND DISTANCES ARE NAD83 GRID VALUES.

**BENCHMARK:**

SEE GENERAL NOTES (SHEET 1) FOR BENCHMARKS.

**GENERAL NOTES:**

- DIMENSIONS AND COORDINATES PROVIDED INDICATE THE DESIGN INTENT OF THE ENGINEER. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY INCONSISTENCIES OR DISCREPANCIES FOUND DURING CONSTRUCTION. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND COORDINATES DURING CONSTRUCTION LAYOUT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO AND THROUGHOUT CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION PHASE SURVEYING INCLUDING LOCATING AND VERIFYING PROJECT BENCHMARKS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN NEAT AND ACCURATE CONSTRUCTION RECORDS. THE CONTRACTOR SHALL PROVIDE CLEAN AND ACCURATE FULL-SIZE RECORD DRAWINGS WHICH CLEARLY DESCRIBE ANY DEVIATIONS FROM THE PLANS.
- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE FOLLOWING, IN ORDER OF PRECEDENCE, (1) DETAILS SHOWN IN THESE PLANS AND SPECIFICATIONS, (2) TEXAS DEPARTMENT OF TRANSPORTATION - "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAY, STREETS AND BRIDGES."
- IN AREAS WHICH ARE TO REMAIN UNDISTURBED, THE CONTRACTOR SHALL PRESERVE, PROTECT AND/OR RESTORE ALL AREAS DISTURBED BY THE CONSTRUCTION TO ORIGINAL CONDITION OR BETTER AT THE EXPENSE OF THE CONTRACTOR.
- IN THE EVENT THAT EXISTING PRIVATE UTILITY SERVICES SUCH AS WATER, GAS, TELEPHONE, ELECTRIC, ETC. MUST BE TAKEN OUT OF SERVICE TO FACILITATE CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TEMPORARY UTILITIES TO THE SATISFACTION OF THE OWNER.
- THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION SAFETY.
- THE CONTRACTOR SHALL PROTECT ALL PROPERTY CORNER MARKERS, AND IF DISTURBED, THEY SHALL BE RESET AT THE EXPENSE OF THE CONTRACTOR.
- IN THE EVENT THAT OTHER CONTRACTORS ARE DOING WORK IN THE SAME AREA SIMULTANEOUSLY WITH THIS PROJECT, THE CONTRACTOR SHALL COORDINATE HIS PROPOSED CONSTRUCTION WITH THAT OF THE OTHER CONTRACTORS.
- ALL MATERIALS TO BE REMOVED FROM THE SITE INCLUDING UNSUITABLE SPOIL MATERIAL, REFUSE AND OTHER DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LAWFULLY REMOVED & DISPOSED OF OUTSIDE THE LIMITS OF THE PROJECT.
- THE CONTRACTOR SHALL MAKE A FINAL CLEAN-UP OF ALL PARTS OF THE WORK AND PREPARE THE SITE IN AN ORDERLY MANNER OF APPEARANCE BEFORE ACCEPTANCE BY THE COUNTY.
- HAUL ROADS, ACCESS ROUTES AND THE LOCATION OF ALL STAGING AREAS AND STORAGE AREAS SHALL BE SUBJECT TO THE APPROVAL OF THE COUNTY.
- BEYOND ENGINEERING AND TESTING, LLC (BEYOND) HAS MADE AN INVESTIGATION OF SUBSURFACE SOIL CONDITIONS OF THE PROJECT SITE IN THEIR REPORT PROJECT NO. GT2101001, DATED APRIL 30, 2021, AND IS REFERENCED IN THE CONSTRUCTION DOCUMENTS AS "GEOTECHNICAL REPORT".
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE TRAFFIC CONTROL DURING CONSTRUCTION AS REQUIRED BY THE COUNTY AND STATE IN WHICH THE PROJECT IS LOCATED.
- CONTRACTOR SHALL PREPARE, FURNISH, MAINTAIN, AND REMOVE ALL TRAFFIC CONTROL DEVICES THROUGHOUT CONSTRUCTION. ALL DEVICES SHALL BE IN CONFORMANCE WITH THE TEXAS MUTCD, LATEST EDITION AS CURRENTLY AMENDED BY THE TEXAS DEPARTMENT OF TRANSPORTATION.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ROAD AND DRIVEWAY CLOSURES WITH THE OWNER AND AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING A TRAFFIC CONTROL AND SEQUENCING PLAN WITH SUBMISSION OF THE BID PACKET. THIS PLAN WILL BE REVIEWED FOR APPROVAL AND AS PART OF THE ASSESSMENT FOR AWARD OF BID. ROAD CLOSURES WILL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE COUNTY UPON APPROVAL OF SUBMITTED TRAFFIC CONTROL AND SEQUENCING PLAN.
- NO SPECIAL PAY FOR TRAFFIC CONTROL ITEMS NOT INCLUDED IN TRAFFIC CONTROL BID. ANY MATERIALS NEEDED FOR TRAFFIC CONTROL SHALL BE INCLUDED IN THE TRAFFIC CONTROL BID ITEM. COUNTY SHALL NOT PROVIDE ANY ASPECTS OF TRAFFIC CONTROL, SEQUENCING, OR ALTERNATIVE ROUTES.
- CONTRACTOR TO REMOVE AND REINSTALL MAILBOXES, AS NEEDED, TO COMPLY WITH THE DETAIL. FOR DECORATIVE MAILBOXES, THE CONTRACTOR SHALL NOTIFY THE LANDOWNER THAT THEIR MAILBOX WILL BE RELOCATED AND REINSTALLED ON A STANDARD POST, MEETING THE REQUIREMENTS STATED HEREIN. THE CONTRACTOR WILL COORDINATE WITH THE LANDOWNER FOR REMOVAL OF MATERIALS. ANY WORK THE CONTRACTOR COORDINATES TO REINSTALL A MAILBOX WITH DECORATIVE MATERIALS SHALL BE AT THE EXPENSE OF THE CONTRACTOR OR LANDOWNER.

**EROSION CONTROL NOTES:**

- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A SWPPP, ALL NECESSARY PERMITS AND APPROVALS, AND MAINTAINING COMPLIANCE WITH THE GENERAL PERMIT.
- EROSION CONTROL MEASURES SHALL FOLLOW THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IF APPLICABLE. ANY CHANGES TO THE SWPPP SHALL SUPERSEDE THE EROSION CONTROL PLAN. THE SWPPP IS TO BE KEPT ON-SITE AT ALL TIMES WITH THESE CONSTRUCTION DOCUMENTS AS NECESSARY FOR COMPLIANCE WITH THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) GENERAL PERMIT.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION, ROUTINE INSPECTION AND/OR MAINTENANCE OF EROSION CONTROL DEVICES.
- THE EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL ACCEPTABLE VEGETATION COVERAGE HAS BEEN ACHIEVED IN ACCORDANCE WITH THE GENERAL PERMIT.
- ANY ADDITIONAL EROSION CONTROL MEASURES REQUIRED TO COMPLY WITH THE SWPPP OR TCEQ STORMWATER POLLUTION REGULATIONS SHALL BE IMPLEMENTED BY THE CONTRACTOR, AT HIS EXPENSE.
- DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR AT LEAST FOURTEEN DAYS SHALL BE TEMPORARILY SEEDED AND WATERED. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED SHALL BE PERMANENTLY SEEDED/SODDED WITHIN SEVEN DAYS IN ACCORDANCE WITH THE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING SEEDED/SODDED AREAS AS NECESSARY UNTIL 70% VEGETATION IS ESTABLISHED IN ACCORDANCE WITH THE PLANS.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EROSION CONTROL MEASURES ONCE FINAL GROUND STABILIZATION IS ACHIEVED AND THE PROJECT IS COMPLETED.

**DEMOLITION NOTES:**

- THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSING OF EXISTING STRUCTURES, UTILITIES, PAVEMENT, TREES, ETC., WITHIN CONSTRUCTION LIMITS AS SHOWN ON PLANS, IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES AT CONTRACTOR'S EXPENSE. AREAS WHERE MATERIAL HAS BEEN REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT BACK UP TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL IN ACCORDANCE WITH GEOTECHNICAL REPORT.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
- PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
- THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES/FLOWLINES.
- CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
- CONTRACTOR MAY LIMIT SAWCUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS, BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
- ALL FENCES REMOVED TO FACILITATE CONSTRUCTION SHALL BE REPLACED AT THE EXISTING OR PROPOSED LOCATION AS DIRECTED BY THE COUNTY.

**GRADING NOTES:**

- THE AREA TO BE GRADED SHOULD BE STRIPPED OF VEGETATION, ROOTS, STUMPS, DEBRIS, AND OTHER ORGANIC MATERIALS.
- CONSTRUCTION SHALL BE BASED ON ELEVATIONS SHOWN ON THE ROADWAY PLAN & PROFILE SHEETS PLAN. CONTOURS ARE A VISUAL REPRESENTATION OF FINISHED GRADE ONLY AND ARE NOT INTENDED TO BE USED TO SET GRADE.
- SLOPES ON SITE SHALL NOT EXCEED A 3:1 SLOPE, UNLESS NOTED OTHERWISE.
- ANY COSTS ASSOCIATED WITH DEWATERING THE SITE SHALL BE DONE AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL MATCH EXISTING ELEVATIONS AND CONSTRUCT SMOOTH TRANSITIONS AT CONNECTIONS TO EXISTING PAVEMENT.

**UTILITY NOTES:**

- THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES UNLESS NOTED OTHERWISE.
- CONTRACTOR TO COORDINATE WITH UTILITY OWNERS FOR VERTICAL ADJUSTMENTS TO, AND NEAR, THEIR FACILITIES PRIOR TO CONSTRUCTION.
- CONTRACTOR TO FIELD VERIFY DEPTH OF ALL EXISTING PIPELINES PRIOR TO CONSTRUCTION.
- CONTRACTOR TO FIELD VERIFY HEIGHT CLEARANCE ON ALL OVERHEAD UTILITIES PRIOR TO CONSTRUCTION.

**ON-SITE BENCHMARKS:**

- CP-107:** A 5/8 INCH IRON ROD WITH YELLOW CAP LOCATED AT THE SOUTHEAST CORNER OF THE INTERSECTION OF EAST COUNTY ROAD 120 AND COUNTY ROAD 1180, APPROXIMATELY 25 FEET EAST OF THE CENTERLINE OF THE COUNTY ROAD 1180 AND 65 FEET SOUTH OF THE CENTERLINE OF EAST COUNTY ROAD 120.  
NAD83 GRID COORDINATES: N: 10,681,067.34' E: 1,763,395.37'  
PUBLISHED ELEVATION: 2763.18' NAVD88 DATUM
- CP-108:** A 5/8 INCH IRON ROD WITH YELLOW CAP LOCATED APPROXIMATELY 40 FEET EAST OF COUNTY ROAD 1180 AND APPROXIMATELY 220 FEET SOUTH OF THE CENTERLINE OF THE ACCESS ROAD TO THE SOUTH FRONTAGE ROAD OF INTERSTATE HIGHWAY 20.  
NAD83 GRID COORDINATES: N: 10,685,707.10' E: 1,762,219.98'  
PUBLISHED ELEVATION: 2749.11' NAVD88 DATUM
- CP-109:** A 5/8 INCH IRON ROD WITH YELLOW CAP LOCATED APPROXIMATELY 30 FEET EAST OF COUNTY ROAD 1180 AND APPROXIMATELY 725 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 117.  
NAD83 GRID COORDINATES: N: 10,683,149.20' E: 1,762,862.47'  
PUBLISHED ELEVATION: 2742.98' NAVD88 DATUM

PROPOSED PLAN LEGEND		EXISTING CONDITIONS LEGEND	
	PROPOSED ROAD CENTERLINE		RIGHT-OF-WAY
	PROPOSED MAJOR CONTOUR		PROPERTY BOUNDARY
	PROPOSED MINOR CONTOUR		ADJOINER
	FULL-DEPTH ROADWAY SAWCUT		ABSTRACT
	FULL-DEPTH DRIVEWAY SAWCUT		EXISTING MAJOR CONTOUR
	PROPOSED EDGE OF ASPHALT		EXISTING MINOR CONTOUR
	PROPOSED DITCH CENTERLINE		EXISTING EDGE OF ASPHALT
	PROPOSED PROFILE LEFT DITCH FLOW LINE		EXISTING CURB
	PROPOSED PROFILE RIGHT DITCH FLOW LINE		EXISTING FENCE
	PROPOSED CULVERT		EXISTING FLOODPLAIN BOUNDARY
	PROPOSED ASPHALT		EXISTING AT&T
	PROPOSED CONCRETE		EXISTING CABLE
	PROPOSED DRIVEWAY BASE		EXISTING COMMUNICATION
	CONTROL POINT		EXISTING DRAINAGE PIPE
	EASTING		EXISTING OVERHEAD ELECTRIC
	NORTHING		EXISTING UNDERGROUND ELECTRIC
	ELEVATION		EXISTING FIBER-OPTIC CABLE
	CENTERLINE		EXISTING FORCE MAIN
	LEFT		EXISTING GAS LINE
	RIGHT		EXISTING IRRIGATION
	POINT OF CURVATURE		EXISTING OVERHEAD LINES
	POINT OF CONTINUOUS CURVATURE		EXISTING UNDERGROUND PIPELINE
	POINT OF INTERSECTION		EXISTING SANITARY SEWER
	POINT OF REVERSE CURVATURE		EXISTING STORM DRAIN
	POINT OF TANGENCY		EXISTING TELEPHONE LINE
	RADIUS		EXISTING WATER LINE
	EXISTING GRADE		EXISTING SIGN
	FLOWLINE		EXISTING UTILITY SIGN
	MATCH EXISTING		EXISTING BOLLARD/FENCE POST
	PROPOSED GRADE LINE		EXISTING MAILBOX
	POINT OF VERTICAL INTERSECTION		EXISTING TREE
			EXISTING CABLE BOX
			EXISTING PEDESTAL CABLE
			EXISTING ELECTRICAL BOX
			EXISTING PEDESTAL ELECTRIC
			EXISTING ELECTRIC VAULT
			EXISTING LIGHT POLE
			EXISTING GAS MANHOLE
			EXISTING GAS VALVE
			EXISTING GAS METER
			EXISTING PEDESTAL GAS
			EXISTING GUY WIRE
			EXISTING UTILITY POLE
			EXISTING SANITARY SEWER MANHOLE
			EXISTING CLEANOUT
			EXISTING STORM DRAIN MANHOLE
			EXISTING PEDESTAL TELEPHONE
			EXISTING PEDESTAL UNKNOWN
			EXISTING FIRE HYDRANT
			EXISTING WATER METER
			EXISTING WATER MANHOLE
			EXISTING WATER VALVE
			EXISTING ASPHALT TO BE DEMOLISHED
			EXISTING CONCRETE TO BE DEMOLISHED
			EXISTING GRAVEL TO BE DEMOLISHED

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				<p>JLB DESIGNED</p> <p>JLB DRAWN</p> <p>JLB CHECKED</p>		<p>SCALE</p> <p>HORIZ N/A</p> <p>VERT N/A</p> <p>DATE</p> <p>MARCH 2022</p>		<p>4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705 Tel: 432.699.4889 [TX REG. F-1114]</p>				<p>MIDLAND COUNTY PRECINCT 2</p> <p>SOUTH COUNTY ROAD 1180</p> <p>MIDLAND COUNTY, TEXAS</p>		<p>DA PROJECT B006799.001</p> <p>SHEET</p> <p>1</p>	
<p>NO. REVISION</p>										<p><b>GENERAL NOTES</b></p>					



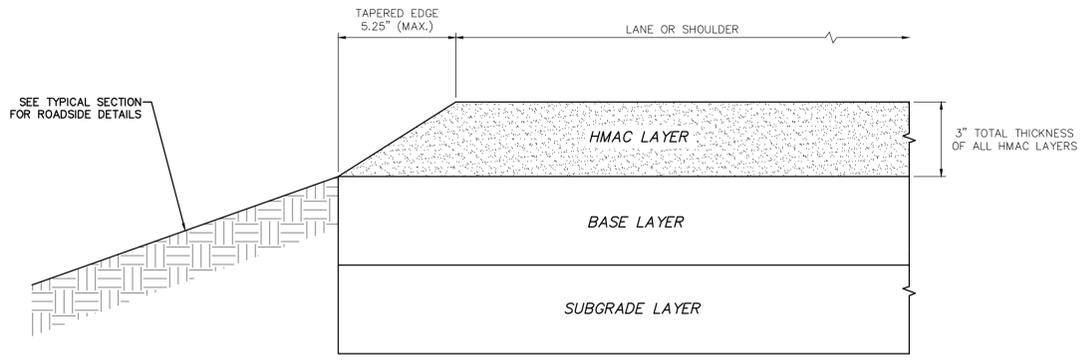
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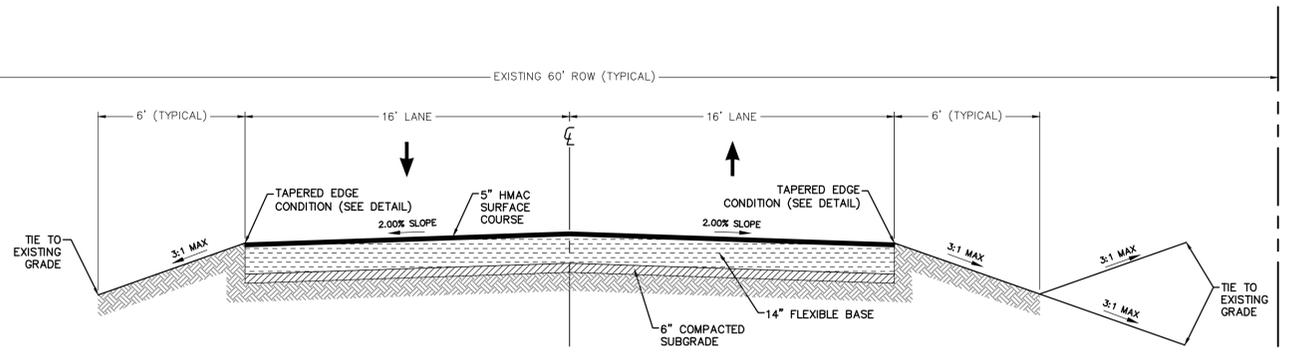
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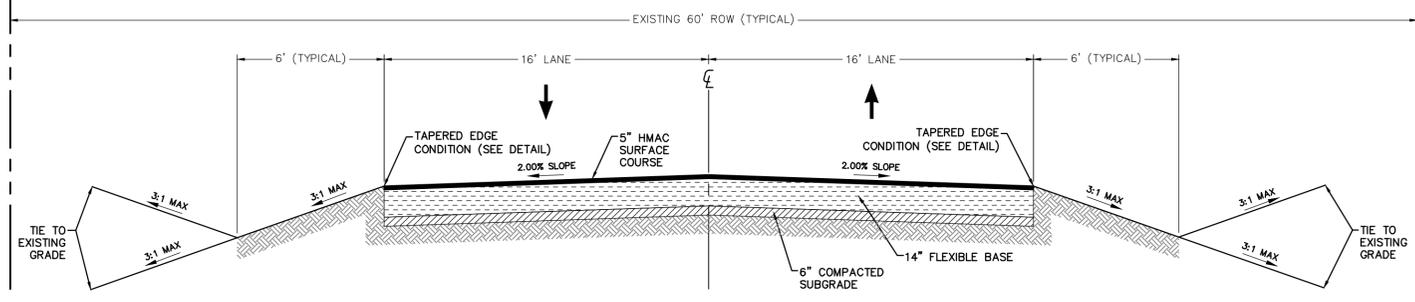
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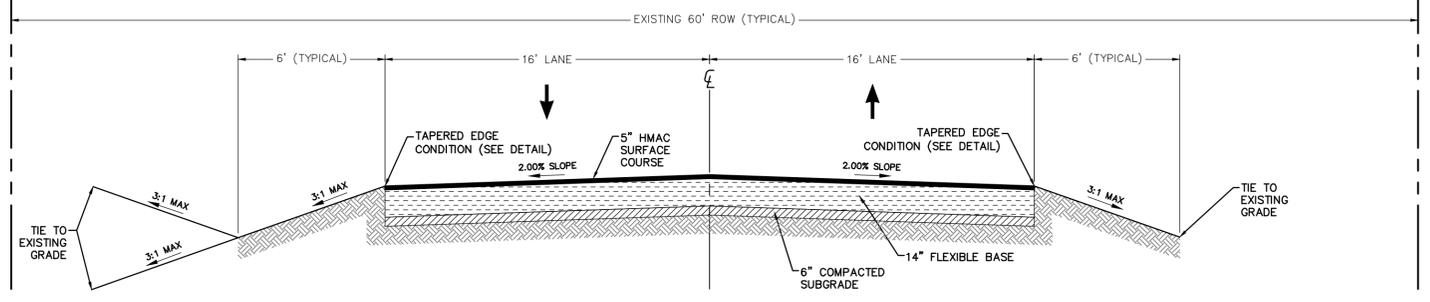
**TAPERED EDGE CONDITION HMAC PAVEMENT**  
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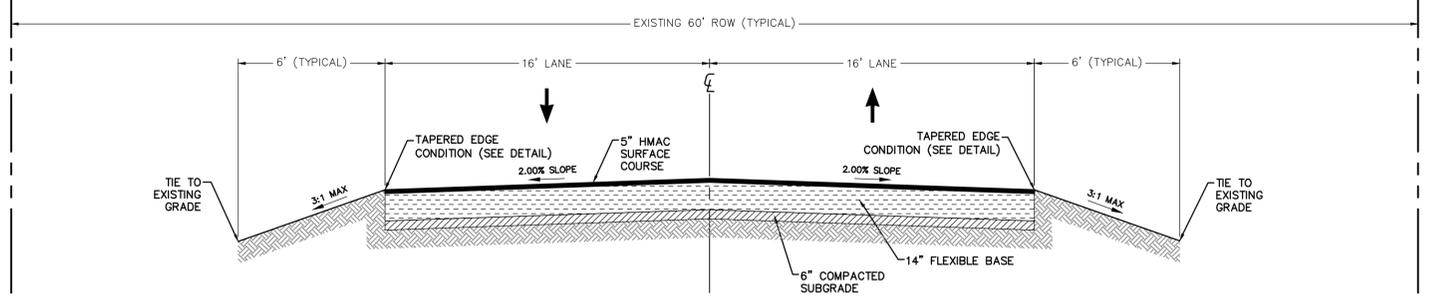
**CROWN ASPHALT BEGINNING TO STA. 3+50**  
NOT TO SCALE



**CROWN ASPHALT STA. 3+50 TO 10+00, STA. 13+50 TO 23+50, STA. 26+00 TO 35+50, STA. 43+50 TO END**  
NOT TO SCALE



**CROWN ASPHALT STA. 10+00 TO 13+50, STA. 23+50 TO 26+00, STA. 40+00 TO 43+50**  
NOT TO SCALE



**CROWN ASPHALT STA. 35+50 TO 40+00**  
NOT TO SCALE

- NOTES:**
1. SELECT NON-EXPANSIVE FILL MATERIAL SHOULD MEET ONE OF THE FOLLOWING SOIL CLASSIFICATIONS: SC-SM, SM, SC, GC, OR GW-GC, POSSESS A PLASTICITY INDEX, PI, OF NO MORE THAN 15, AND SHALL NOT POSSESS PARTICLE SIZES GREATER THAN 3-INCHES. NATIVE SOILS MAY BE USED AS SELECT FILL PROVIDED ADDITIONAL TESTING IS PERFORMED DURING CONSTRUCTION TO VERIFY MATERIAL SUITABILITY. SELECT SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8-INCHES AND SHALL BE COMPACTED TO AT LEAST 98% OF D698 WITH MOISTURE CONTENT  $\pm 2\%$  OF OPTIMUM OR COHESIVE SOILS AND WITHIN  $\pm 3\%$  OF OPTIMUM FOR COHESIONLESS SOILS.
  2. SUBGRADE SOILS BENEATH PAVEMENTS SHALL BE SCARIFIED TO AT LEAST 6 INCHES, COMPACTED, THEN PROOF-ROLL TESTED WITH A LOADED TANDEM-AXLE DUMP TRUCK OR WATER TRUCK OF 25 TONS OR HEAVIER. THE PROOF-ROLL TEST IS CONSIDERED PASSING IF SOIL DEFLECTIONS ARE LESS THAN 1/2-INCH. WHEN USING THE PROOF-ROLLED METHOD, 100% COVERAGE OVER THE ROADWAY WITH A MINIMUM OF 2 PASSES PER AREA IS RECOMMENDED. SUBGRADE DENSITY SHALL BE GREATER THAN 98% OF ASTM D698 WITH MOISTURE CONTENT  $\pm 2\%$  OF OPTIMUM OR COHESIVE SOILS AND WITHIN  $\pm 3\%$  OF OPTIMUM FOR COHESIONLESS SOILS. IF SELECT FILL IS USED FOR SUBGRADE, IT SHALL BE TESTED USING THE NUCLEAR DENSITY METHOD, TESTING FREQUENCY OF ONE TEST PER 500 LINEAR FEET OF ROADWAY.
  3. PROPOSED FLEXIBLE BASE MATERIAL SHALL BE CRUSHED ROCK CONFORMING TO TXDOT STANDARD SPECIFICATION ITEM NO. 247, GRADE 1-2 OR BETTER. THE FLEXIBLE BASE MATERIAL SHALL BE INSTALLED IN FOUR TO SIX (4"-6") INCH COMPACTED LIFTS. ADDITIONALLY THE FLEXIBLE BASE MATERIAL IN EACH LIFT SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MATERIAL'S DRY DENSITY AS PER ASTM D1557 WITH MINIMUM MOISTURE CONTENT OF  $\pm 2\%$ . ONE TEST SHALL BE PERFORMED EVERY 300 LINEAR FEET OF ROADWAY, APPROXIMATELY ONE TEST EVERY 10,000-12,000 SQUARE FEET OF AREA PER LIFT.
  4. PRIME COAT SHALL BE PER TXDOT ITEM 310 SPECIFICATIONS.
  5. PROPOSED ASPHALT IS A TYPE D HMAC THAT SHALL MEET TXDOT ITEM 340 SPECIFICATIONS.
  6. THESE NOTES AS SHOWN ABOVE ARE PER THE GEOTECHNICAL ASSESSMENT PREPARED BY BEYOND ET, WHICH SHALL BE REFERENCED FOR ADDITIONAL INFORMATION AND SPECIFICATIONS. ANY SUBSEQUENT REVISIONS TO THIS ASSESSMENT SHALL GOVERN.
  7. THE PROPOSED FINISHED GRADE OF ROADWAY IN LOW WATER CROSSING AREAS SHALL MATCH THE EXISTING TOP OF PAVEMENT OR CALICHE UNLESS SPECIFIED OTHERWISE ON THE CORRESPONDING PLAN & PROFILE SHEETS.
  8. THE TAPERED EDGE CONDITION AT THE EDGE OF PAVEMENT SHALL BE AS SHOWN IN THE TAPERED EDGE CONDITION HMAC PAVEMENT DETAIL. THE SLOPE OF THE TAPERED EDGE SHALL BE 1.75H:1V, WHICH IS 5.25" FOR 3" OF HMAC PAVEMENT. THIS TAPERED EDGE CONDITION SHALL APPLY AT ALL LOCATIONS FOR ALL TYPICAL SECTIONS.

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			MARCH
			2022

**DUNAWAY**  
4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705  
Tel: 432.699.4889  
[TX REG. F-1114]

STATE OF TEXAS  
JESSICA A. SCHULTZ  
LICENSED PROFESSIONAL ENGINEER  
132068  
3/8/2022

MIDLAND COUNTY PRECINCT 2	DA PROJECT
SOUTH COUNTY ROAD 1180	B006799.001
MIDLAND COUNTY, TEXAS	SHEET
<b>TYPICAL ASPHALT SECTIONS</b>	<b>2</b>



**WARNING TO CONTRACTOR:**

CALL 811 (TEXAS 811) OR OTHER UTILITY LOCATING SERVICES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY. DUNAWAY ASSOC., L.P. IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES OR DEPICTING EXACT LOCATIONS OF UTILITIES ON DRAWINGS.

**CRITICAL:**

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**UTILITY RELOCATION NOTE:**

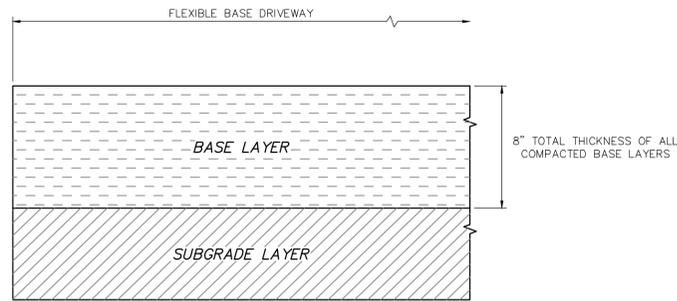
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**STATE PLANE COORDINATE NOTE:**

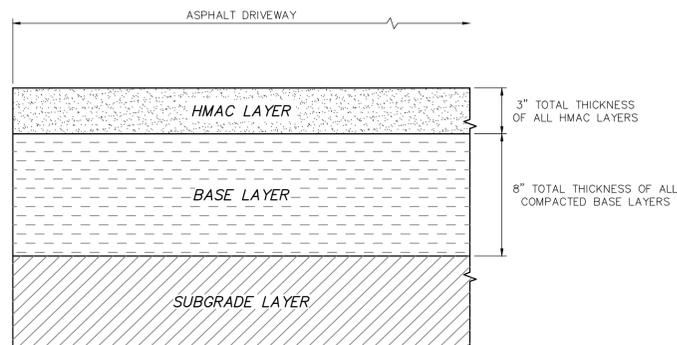
COORDINATES PROVIDED ARE RELATIVE TO THE TEXAS STATE PLANE COORDINATE SYSTEM (NAD83), CENTRAL ZONE 4203; ALL COORDINATES, BEARINGS, AND DISTANCES ARE NAD83 GRID VALUES.

**BENCHMARK:**

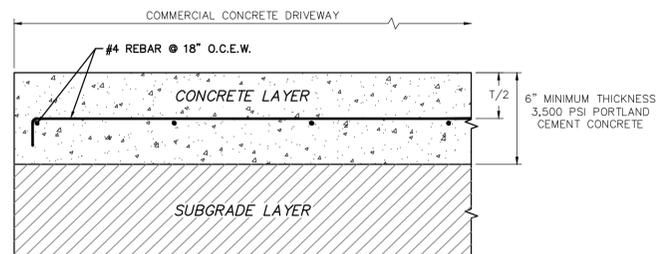
SEE GENERAL NOTES (SHEET 1) FOR BENCHMARKS.



**TYPICAL FLEXIBLE BASE DRIVEWAY SECTION**  
NOT TO SCALE



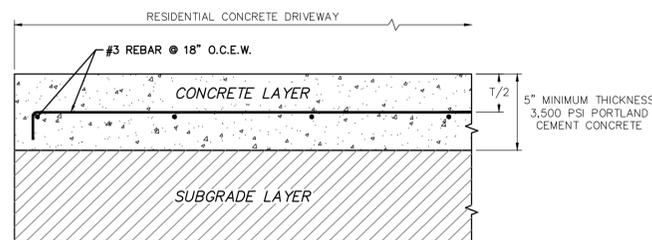
**TYPICAL ASPHALT DRIVEWAY SECTION**  
NOT TO SCALE



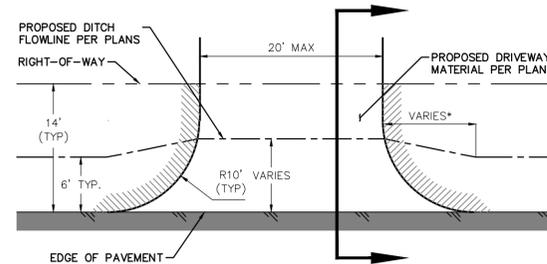
COMMERCIAL

**TYPICAL CONCRETE DRIVEWAY SECTIONS**  
NOT TO SCALE

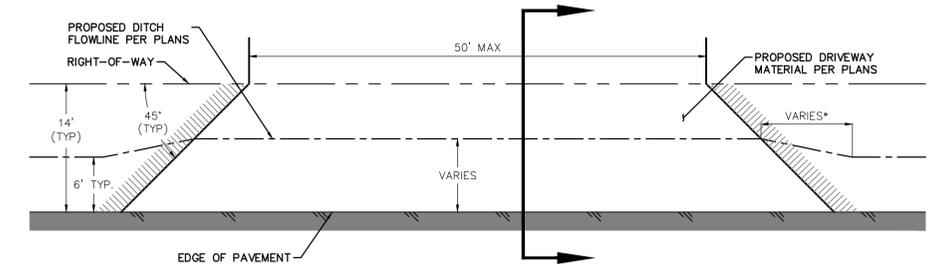
NOTE:  
CONTRACTOR TO FOLLOW TYPICAL CONCRETE SECTIONS SHEET FOR JOINTING DETAILS AND NOTES.



RESIDENTIAL



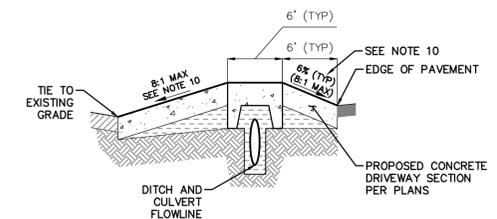
RESIDENTIAL PLAN VIEW



COMMERCIAL PLAN VIEW

VARIES\* - LENGTH TO PROVIDE A SMOOTH TRANSITION IN DITCH CENTERLINE. TYPICAL LENGTH OF 5' FOR EVERY 1' OF HORIZONTAL ADJUSTMENT (5:1).

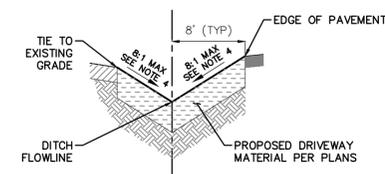
**TYPICAL DRIVEWAYS**  
NOT TO SCALE



**CULVERT DRIVEWAY SECTION**

**NOTES:**

1. CONCRETE SECTION TO FOLLOW TYPICAL CONCRETE DRIVEWAY SECTIONS DETAIL, THIS SHEET.
2. CONCRETE SECTION SHALL USE FOOTERS TO SPAN THE CULVERT(S) DITCH, PLACED ON UNDISTURBED SUB-GRADE OR COMPACTED BASE MATERIALS.
3. MINIMUM CULVERT SIZE SHALL BE 12" OR EQUIVALENT.
4. CULVERT MATERIAL SHALL BE REINFORCED CONCRETE, HIGH-DENSITY POLYETHYLENE, OR CORRUGATED METAL.
5. CULVERT COVER SHALL MEET OR EXCEED MINIMUM PER MATERIAL MANUFACTURER OR 1-FOOT, WHICHEVER IS LESS.
6. CULVERT COVER MAY BE REDUCED WITH USE OF RCP CLASS IV OR CONCRETE ENCASEMENT A MINIMUM OF 6-INCHES FROM OUTSIDE EDGE OF PIPE TO TRENCH WALLS.
7. CULVERTS SHALL BE PLACED TO MAINTAIN POSITIVE DRAINAGE ALONG PROPERTY FRONTAGE.
8. CONTRACTOR TO INSTALL SAFETY END TREATMENTS FOLLOWING TxDOT DETAIL SETP-PD, WHERE PRACTICABLE. IF A SETP-PD IS NOT FEASIBLE, CONTRACTOR TO INSTALL A SAFETY END TREATMENT FOR PIPE CULVERTS FROM TxDOT'S BRIDGE STANDARD DETAILS.
9. MAXIMUM SLOPES OF THE DRIVEWAY MATERIALS FOR GRADES SHALL BE 8:1 IN ANY DIRECTION.
10. DRIVEWAY SLOPES WITHIN THE FEMA DESIGNATED FLOODWAY AND FLOODPLAIN SHALL MATCH EXISTING SLOPES.



**INVERTED FLOWLINE DRIVEWAY SECTION**

**NOTES:**

1. FLOW LINE FOR ROAD DITCH SHALL REMAIN WITHIN THE R.O.W.
2. CONTRACTOR TO FIELD FIT DRIVEWAY FROM FLOW LINE TO CURRENT CONDITIONS ALONG THE R.O.W.
3. IF DITCH CANNOT BE ACCOMMODATED WITHIN THE R.O.W. AT THE DEPTHS SHOWN ON THE PLAN AND PROFILE SHEETS, CONTRACTOR MAY INSTALL CULVERT(S) FOLLOWING THE CULVERT DRIVEWAY SECTION PER THIS DETAIL.
4. DRIVEWAY SLOPES WITHIN FEMA DESIGNATED FLOODWAY AND FLOODPLAIN SHALL MATCH EXISTING SLOPES

**TYPICAL DRIVEWAY CROSS-SECTION**  
NOT TO SCALE

NO.	REVISION	BY	DATE

JLB	DESIGNED
JLB	DRAWN
JLB	CHECKED

**MIDLAND COUNTY  
MIDLAND, TEXAS**

SCALE
HORIZ
N/A
VERT
N/A
DATE
MARCH 2022

**DUNAWAY**  
4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705  
Tel: 432.699.4889  
TX REG. F-1114



MIDLAND COUNTY PRECINCT 2  
SOUTH COUNTY ROAD 1180  
MIDLAND COUNTY, TEXAS

**TYPICAL DRIVEWAY SECTIONS**

DA PROJECT	B006799.001
SHEET	3

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 PLOTTED BY: Allison Adams  
 PLOTTED DATE: 3/8/2022



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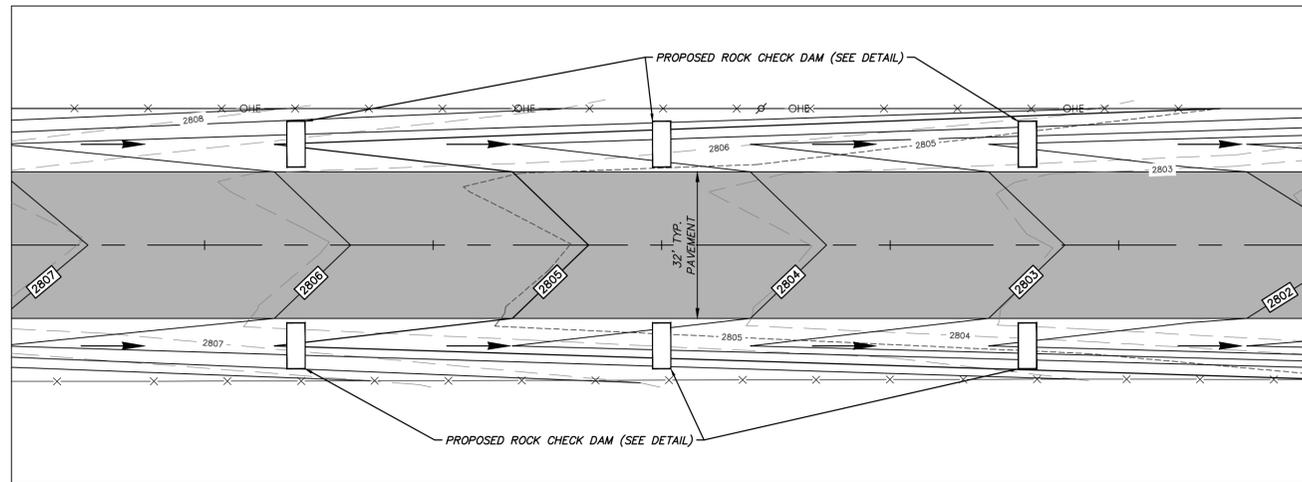
**STATE PLANE COORDINATE NOTE:**

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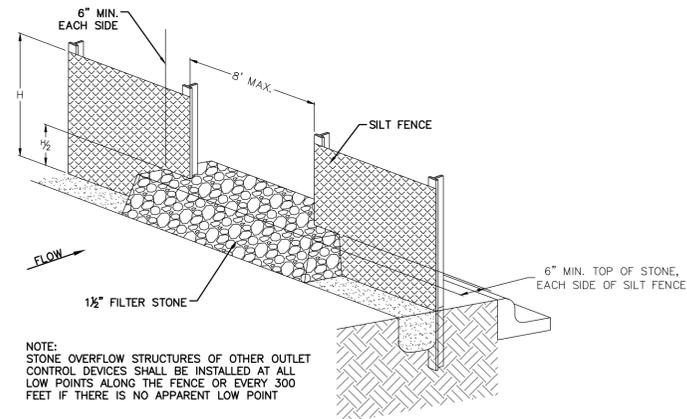
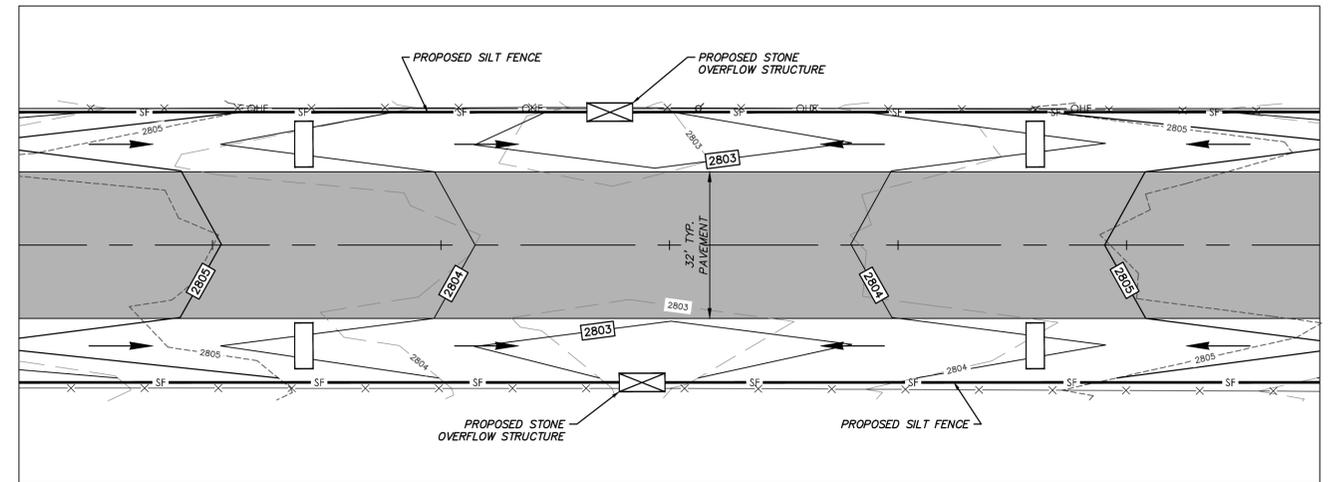
**BENCHMARK:**

SEE GENERAL NOTES (SHEET 1) FOR BENCHMARKS.

**TYPICAL EROSION CONTROL PLAN WITH ROADWAY DITCHES**



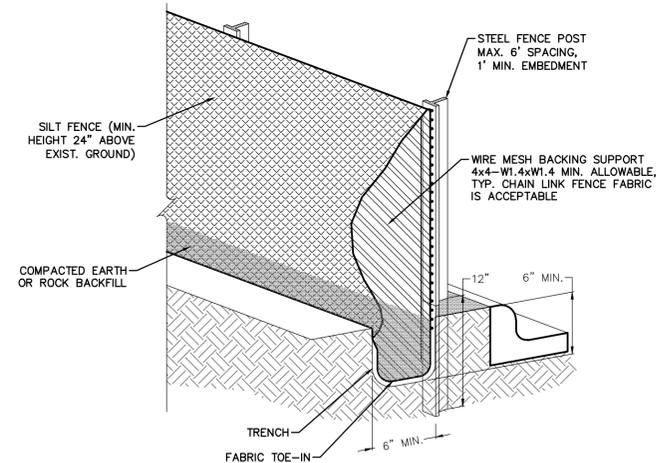
**TYPICAL EROSION CONTROL PLAN WITH DRAINAGE EXITING R.O.W.**



**SILT FENCE STONE OVERFLOW STRUCTURE**  
NOT TO SCALE

**SILT FENCE GENERAL NOTES:**

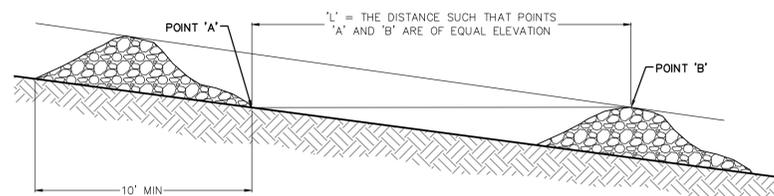
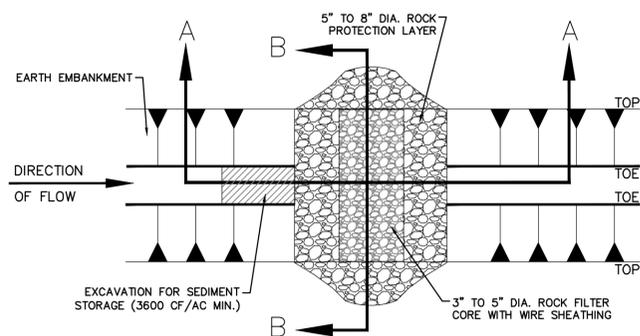
1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (e.g. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS ATTACHED TO THE STEEL FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
5. INSPECTION SHALL BE MADE EVERY TWO WEEKS AND AFTER EACH 1/2" RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.



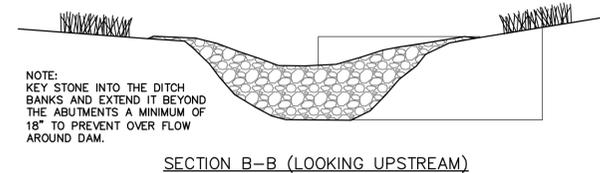
**SILT FENCE**  
NOT TO SCALE

**NOTES:**

1. EROSION CONTROL MEASURES MAY ONLY BE PLACED IN FRONT OF INLETS, IN CHANNELS, DRAINAGEWAYS, OR BORROW DITCHES AT RISK OF CONTRACTOR.
2. CONTRACTOR SHALL REMAIN LIABLE FOR ANY DAMAGE CAUSED BY THE MEASURES, INCLUDING FLOODING DAMAGE, WHICH MAY OCCUR DUE TO BLOCKED DRAINAGE.
3. AT THE CONCLUSION OF ANY PROJECT, ALL CHANNELS, DRAINAGEWAYS AND BORROW DITCHES IN THE WORK ZONE SHALL BE DREDGED OF ANY SEDIMENT GENERATED BY THE PROJECT OR DEPOSITED AS A RESULT OF EROSION CONTROL MEASURES.



**SECTION A-A**  
**ROCK CHECK DAM**  
NOT TO SCALE



**SECTION B-B (LOOKING UPSTREAM)**

**EROSION CONTROL LEGEND**

----- 2805 -----	EXISTING MAJOR CONTOUR
----- 2804 -----	EXISTING MINOR CONTOUR
----- 2805 -----	PROPOSED MAJOR CONTOUR
----- 2804 -----	PROPOSED MINOR CONTOUR
→	PROPOSED FLOW ARROW
— SF —	PROPOSED SILT FENCE
□	PROPOSED ROCK CHECK DAM
⊠	PROPOSED OVERFLOW STRUCTURE

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 PLOTTED BY: Allison Adams  
 PLOTTED AT: 3/8/2022

NO.	REVISION	BY	DATE	CHECKED
		JLB		DESIGNED
		JLB		DRAWN
		JLB		CHECKED

<b>MIDLAND COUNTY MIDLAND, TEXAS</b>		SCALE
		HORIZ N/A
		VERT N/A
		DATE MARCH 2022

**DUNAWAY**  
 4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705  
 Tel: 432.699.4889  
 [TX REG. F-1114]

<b>MIDLAND COUNTY PRECINCT 2</b> <b>SOUTH COUNTY ROAD 1180</b> <b>MIDLAND COUNTY, TEXAS</b>		DA PROJECT B006799.001
<b>TYPICAL EROSION CONTROL PLAN AND DETAILS</b>		SHEET <b>4</b>



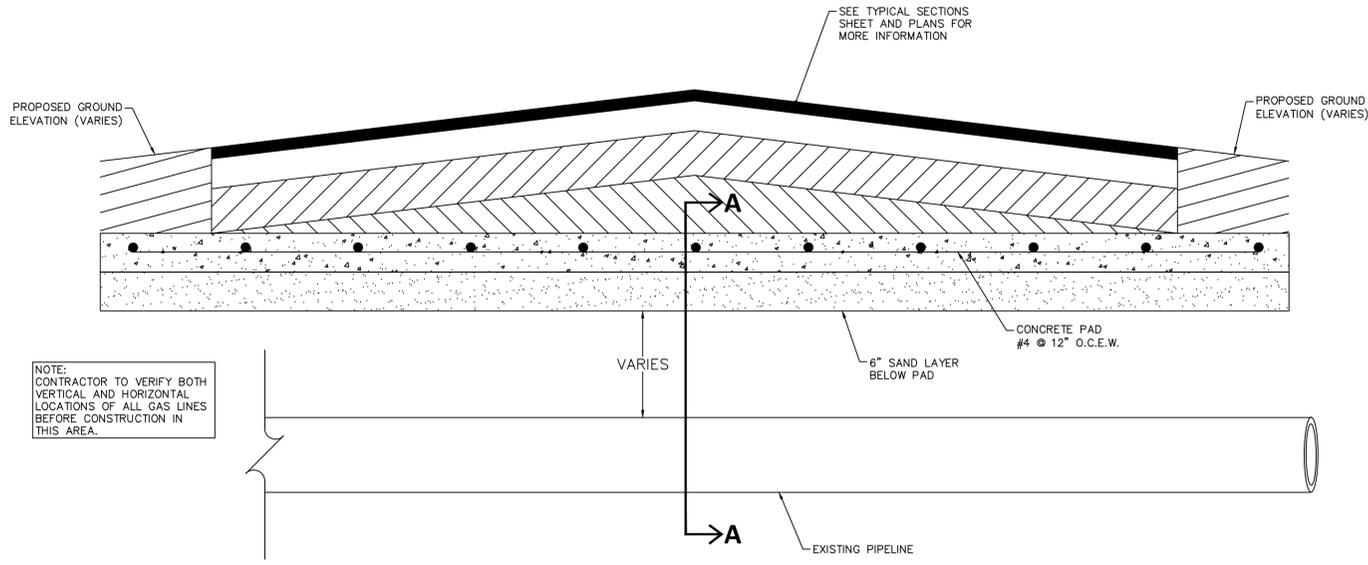
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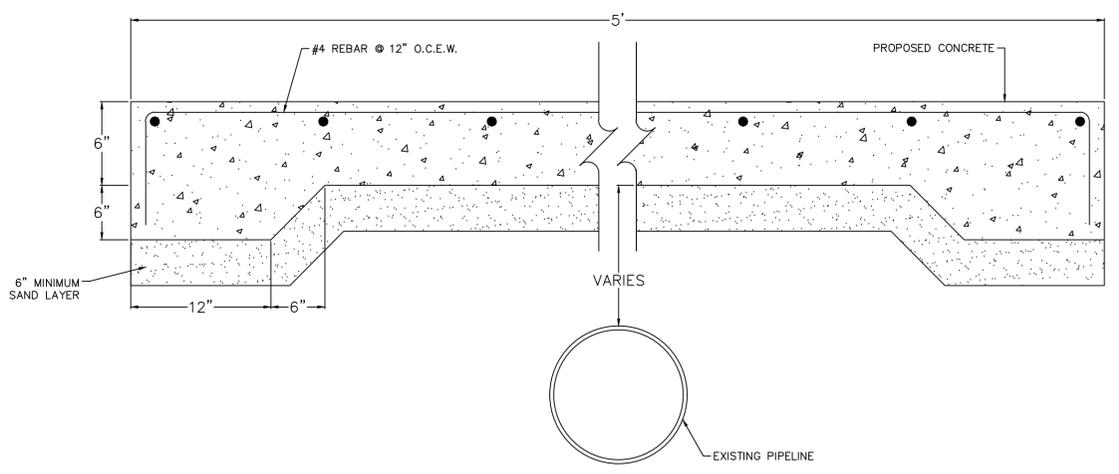
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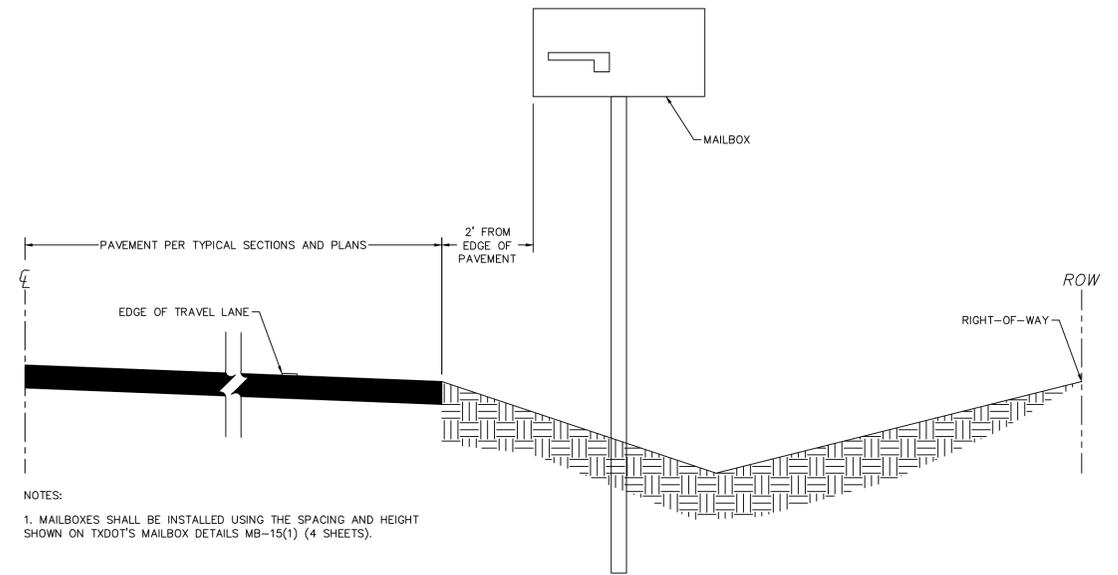


NOTE:  
CONTRACTOR TO VERIFY BOTH VERTICAL AND HORIZONTAL LOCATIONS OF ALL GAS LINES BEFORE CONSTRUCTION IN THIS AREA.

- NOTES:
1. CONCRETE SHALL BE CLASS "A" AND SHALL HAVE A MINIMUM OF 5 SACKS OF CEMENT PER CUBIC YARD AND A MINIMUM 28 DAY COMPRESSION STRENGTH OF 3500 P.S.I.
  2. MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO TXDOT STANDARD SPECIFICATIONS.
  3. REINFORCEMENT SHALL BE #4 BARS AT 12" ON CENTER EACH WAY.
  4. CONTRACTOR TO VERIFY BOTH VERTICAL AND HORIZONTAL LOCATIONS OF ALL GAS LINES BEFORE CONSTRUCTION IN THIS AREA.
  5. WIDTH AND LOCATION TO BE BASED ON SLAB EXTENDED APPROXIMATELY 2'-6" BEYOND OUTSIDE PIPE ON BOTH SIDES
  6. CONTACT PIPELINE OWNER A MINIMUM OF 48 HOURS PRIOR TO WORKING IN THIS AREA.
  7. NO LESS THAN SIX INCHES OF SAND OR EQUIVALENT CUSHION BETWEEN THE BOTTOM OF THE SLAB AND TOP OF EXISTING PIPELINE.
  8. MINIMUM DEPTH OF COVER IS DETERMINED BY PIPELINE OPERATOR AND MUST BE VERIFIED BY CONTRACTOR. IF NOT ENOUGH COVER IS PROVIDED, CONTACT ENGINEER.



**STANDARD CONCRETE CAP FOR PIPELINE CROSSINGS**  
NOT TO SCALE



- NOTES:
1. MAILBOXES SHALL BE INSTALLED USING THE SPACING AND HEIGHT SHOWN ON TXDOT'S MAILBOX DETAILS MB-15(1) (4 SHEETS).

**MINIMUM MAILBOX SPACING FROM EDGE OF PAVEMENT**  
NOT TO SCALE

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 PLOTTED BY: Allison Aragon  
 PLOTTED AT: 3/8/2022 9:08:37 AM

NO.	REVISION	BY	DATE

JLB	DESIGNED
DLP	DRAWN
JLB	CHECKED

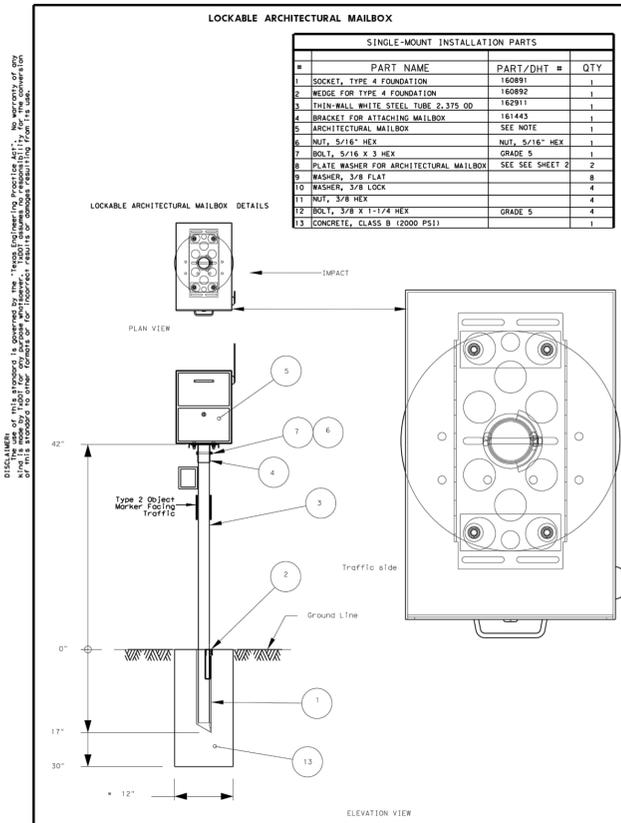
**MIDLAND COUNTY  
MIDLAND, TEXAS**

SCALE	HORIZ	N/A
	VERT	N/A
	DATE	MARCH 2022

**DUNAWAY**  
4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705  
Tel: 432.699.4889  
[TX REG. F-1114]



MIDLAND COUNTY PRECINCT 2 SOUTH COUNTY ROAD 1180 MIDLAND COUNTY, TEXAS	DA PROJECT B006799.001
<b>PIPE ENCASEMENT AND MAILBOX DETAILS</b>	SHEET <b>5</b>



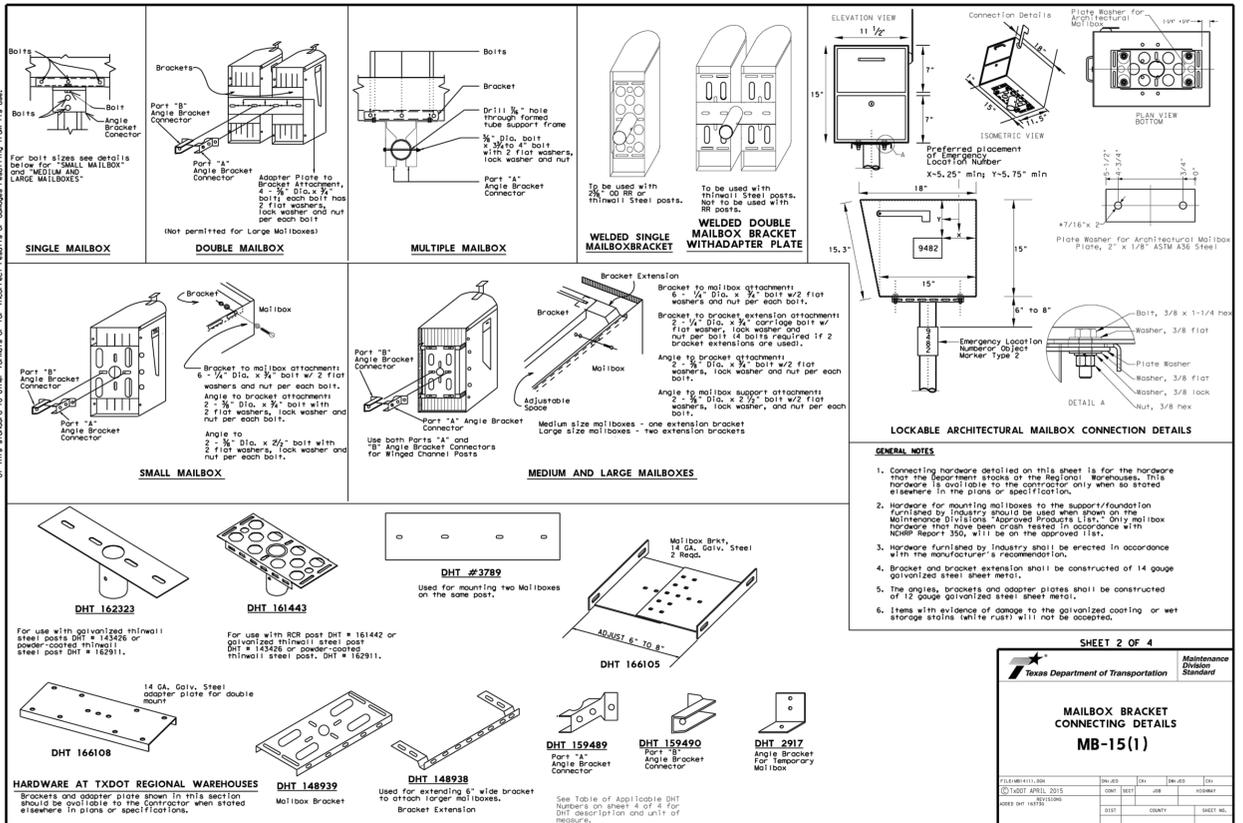
DHT NUMBER	DESCRIPTION
<b>FOUNDATIONS</b>	
160891	WEDGE FOR V-WING SOCKET FOR TYPE 1 FOUNDATION
160892	V-WING SOCKET FOR TYPE 1 FOUNDATION
164343	BRACKET FOR ATTACHING MAILBOX
164344	ANCHOR FOR TYPE 2 FOUNDATION
166103	ANCHOR FOR TYPE 7 FOUNDATION
160891	SOCKET FOR TYPE 4 FOUNDATION
160892	WEDGE FOR TYPE 4 FOUNDATION
166104	WEDGE FOR TYPE 7 FOUNDATION
<b>POSTS</b>	
4289	WINGED CHANNEL MAILBOX POST
149339	MULTIPLE MAILBOX POST (GALVANIZED TUBING)
164116	MULTIPLE MAILBOX POST (WHITE COATED)
166114	MULTIPLE MAILBOX POST (WHITE COATED OCTAGONAL)
166153	MULTIPLE MAILBOX POST (GALVANIZED OCTAGONAL)
161442	RECYCLED RUBBER POST, FOR SMALL MAILBOX ONLY
143426	THIN-WALL GALVANIZED STEEL TUBE 2.375" OUTER DIAMETER
162911	THINWALL WHITE STEEL TUBE 2.315" OUTER DIAMETER
166152	2" OCTAGONAL
166112	2" OCTAGONAL
<b>REFLECTIVE SHEETING</b>	
161812	REFLECTIVE SHEETING FOR EMERGENCY LOCATION NUMBER PANEL
<b>CONNECTING HARDWARE</b>	
3917	ANGLE BRACKET USED FOR TEMPORARY MAILBOX SUPPORT
166105	BRACKET FOR SINGLE MOUNTING OF MAILBOXES (MOUNTING KIT)
3789	PLATE FOR DOUBLE MOUNTING OF MAILBOXES
166108	BRACKET FOR DOUBLE MOUNTING OF MAILBOXES (MOUNTING KIT)
166111	BRACKET FOR MULTIPLE MOUNTING OF MAILBOXES (MOUNTING KIT)
149339	BRACKET FOR ATTACHING SMALL OR MEDIUM SIZE MAIL BOX
149338	EXTENDER TO BRACKET FOR ATTACHING LARGE MAILBOX
159489	ANGLE BRACKET PART A
159490	ANGLE BRACKET PART B
<b>STEEL POSTS GALVANIZED OR POWER-COATED</b>	
162323	BRACKET FOR ATTACHING MAILBOX TO RECYCLED RUBBER POST
161443	AND TO MULTIPLE WHITE MAILBOX POST
162328	CASTING (NEWSPAPER RECEPTACLE BRACKET)
162321	3-SIDE U-ANCHOR (NEWSPAPER RECEPTACLE BRACKET)
160598	BOLT HEX HEAD, GALV 3/8" DIA X 3/4" L, HD, W/2-FLAT WASHERS
163750	BOLT HEX HEAD, GALV 3/8" X 1-1/2", 16 NC, W/WASHERS
160701	BOLT HEX HEAD, GALV 3/8" DIA X 2-1/2" L, HD, W/2-FLAT WASHERS
163720	BOLT HEX HEAD, GALV 3/8" X 3-1/2", 16 NC, W/2-FLAT WASHERS
160599	BOLT HEX HEAD, GALV 3/8" DIA X 3-3/4" L, HD, W/2-FLAT WASHERS
160700	BOLT HEX HEAD, GALV 3/8" DIA X 4" L, HD, W/2-FLAT WASHERS

SHEET 4 OF 4

Texas Department of Transportation  
Maintenance Division Standard

**DHT NUMBERS TABLE MB-15(1)**

ITEM	DATE	BY	CHKD	APP	REV	REVISION
1	04/07/2015	REVISOR				
2	04/07/2015	DESIGNER				
3	04/07/2015	CHECKER				
4	04/07/2015	APPROVER				

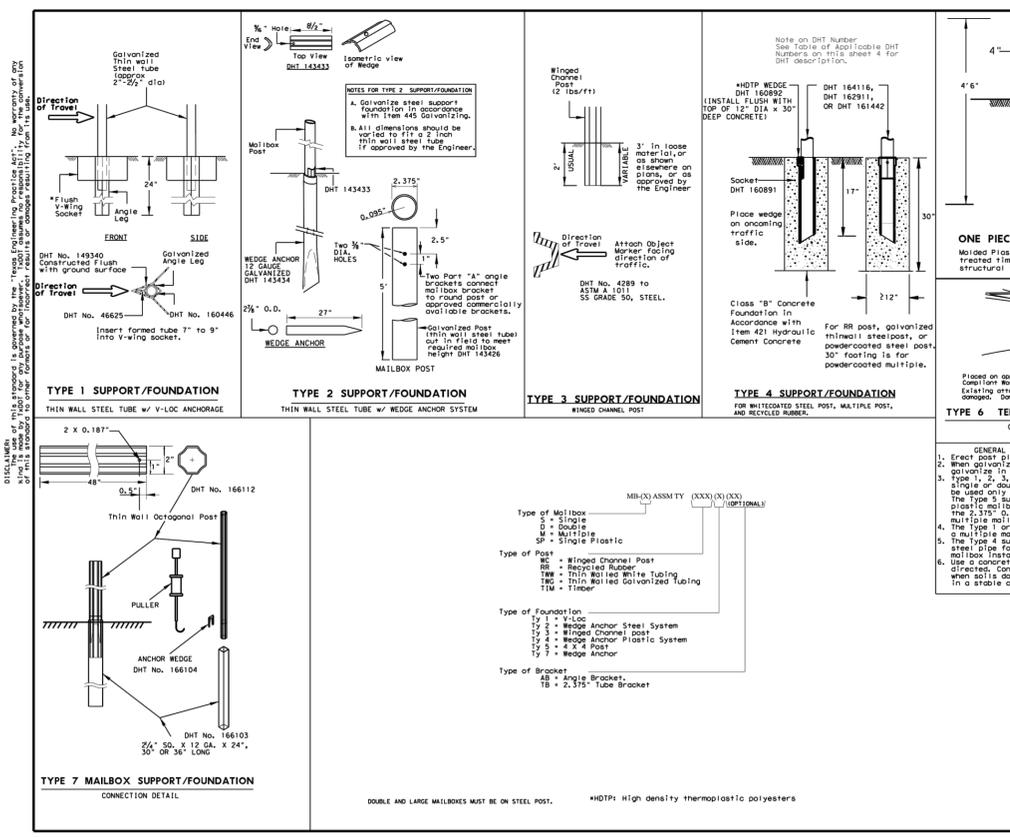


SHEET 2 OF 4

Texas Department of Transportation  
Maintenance Division Standard

**MAILBOX BRACKET CONNECTING DETAILS MB-15(1)**

ITEM	DATE	BY	CHKD	APP	REV	REVISION
1	04/07/2015	REVISOR				
2	04/07/2015	DESIGNER				
3	04/07/2015	CHECKER				
4	04/07/2015	APPROVER				

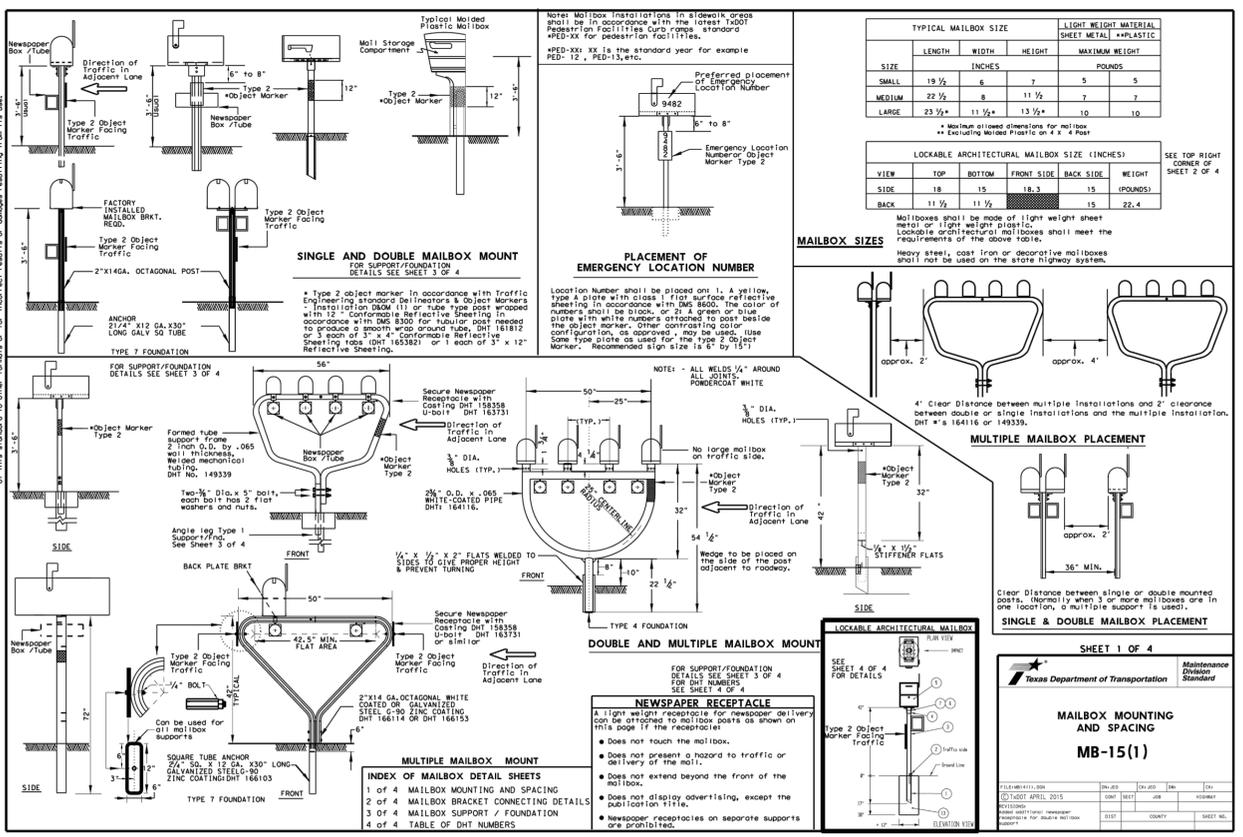


SHEET 3 OF 4

Texas Department of Transportation  
Maintenance Division Standard

**MAILBOX SUPPORT AND FOUNDATION MB-15(1)**

ITEM	DATE	BY	CHKD	APP	REV	REVISION
1	04/07/2015	REVISOR				
2	04/07/2015	DESIGNER				
3	04/07/2015	CHECKER				
4	04/07/2015	APPROVER				



SHEET 1 OF 4

Texas Department of Transportation  
Maintenance Division Standard

**MAILBOX MOUNTING AND SPACING MB-15(1)**

ITEM	DATE	BY	CHKD	APP	REV	REVISION
1	04/07/2015	REVISOR				
2	04/07/2015	DESIGNER				
3	04/07/2015	CHECKER				
4	04/07/2015	APPROVER				

NO.	REVISION	BY	DATE	CHECKED

SCALE: HORIZ N/A, VERT N/A, DATE MARCH 2022

**DUNAWAY**  
4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705  
Tel: 432.699.4889 (TX REG. F-1114)

STATE OF TEXAS  
132068  
PROFESSIONAL ENGINEER  
J. A. Schmitt  
3/8/2022

MIDLAND COUNTY PRECINCT 2  
SOUTH COUNTY ROAD 1180  
MIDLAND COUNTY, TEXAS

DA PROJECT B006799.001  
SHEET 6

**TxDOT MAILBOX DETAILS**



### REQUIREMENTS FOR RED BACKGROUND REGULATORY SIGNS (STOP, YIELD, DO NOT ENTER AND WRONG WAY SIGNS)

**TYPICAL EXAMPLES**

#### REQUIREMENTS FOR FOUR SPECIFIC SIGNS ONLY

USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	RED	TYPE B OR C SHEETING
BACKGROUND	WHITE	TYPE B OR C SHEETING
LEGEND & BORDERS	WHITE	TYPE B OR C SHEETING
LEGEND	RED	TYPE B OR C SHEETING

### REQUIREMENTS FOR WHITE BACKGROUND REGULATORY SIGNS (EXCLUDING STOP, YIELD, DO NOT ENTER AND WRONG WAY SIGNS)

**TYPICAL EXAMPLES**

#### REQUIREMENTS FOR SCHOOL SIGNS

USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	WHITE	TYPE A SHEETING
BACKGROUND	ALL OTHERS	TYPE B OR C SHEETING
LEGEND, BORDERS AND SYMBOLS	BLACK	ACRYLIC NON-REFLECTIVE FILM
LEGEND, BORDERS AND SYMBOLS	ALL OTHER	TYPE B OR C SHEETING

### GENERAL NOTES

- Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign fabrication sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD).
- Sign legends shall use the Federal Highway Administration (FHWA) Standard Highway Alphabet (B, C, S, L, Space or F).
- Lateral spacing between letters and numerals shall conform with the SHSD, and any approved changes thereto. Lateral spacing of legend shall provide a balanced appearance when spacing is not shown.
- Black legends and borders shall be applied by screening process or out-cut acrylic non-reflective black film to background sheeting, or combination thereof.
- White legends and borders shall be applied by screening process with transparent colored ink, transparent colored overlay film to white background sheeting or out-cut white sheeting to colored background sheeting, or combination thereof.
- Colored legends shall be applied by screening process with transparent colored ink, transparent colored overlay film or colored sheeting to background sheeting, or combination thereof.
- Sign substrate shall be any material that meets the Departmental Material Specification requirements of DMS-7110 or approved alternative.
- Mounting details for roadside mounted signs are shown in the "SMD series" Standard Plan Sheets.

### ALUMINUM SIGN BLANKS THICKNESS

Square Feet	Minimum Thickness
Less than 7.5	0.080
7.5 to 15	0.100
Greater than 15	0.125

### DEPARTMENTAL MATERIAL SPECIFICATIONS

ALUMINUM SIGN BLANKS	DMS-7110
SIGN FACE MATERIALS	DMS-8300

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website:  
<http://www.txdot.gov/>

### REQUIREMENTS FOR WARNING SIGNS

**TYPICAL EXAMPLES**

#### REQUIREMENTS FOR SCHOOL SIGNS

USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	FLOURESCENT YELLOW	TYPE B <sub>1</sub> OR C <sub>1</sub> SHEETING
BACKGROUND	WHITE	TYPE B <sub>1</sub> OR C <sub>1</sub> SHEETING
LEGEND & BORDERS	BLACK	ACRYLIC NON-REFLECTIVE FILM
LEGEND & SYMBOLS	ALL OTHER	TYPE B OR C SHEETING

### TYPICAL SIGN REQUIREMENTS

TSR (4) - 13

DATE	REVISED	BY	CHKD	APP'D	REASON
12-03	12-03	...	...	...	...

### TRIANGULAR SLIPBASE INSTALLATION GENERAL REQUIREMENTS

**NOTE**  
There are various devices approved for the Triangular Slipbase System. Please reference the Material Producer List for approved slip base systems. The devices shall be installed per manufacturers' recommendations. Installation procedures shall be provided to the Engineer by Contractor.

**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 with this system shall conform to the following specifications:
  - 5/8" nominal wall thickness stainless or electric-resistance welded steel tubing or pipe
  - Sheet shall be 60ksi or 55 per ASTM A1011 or ASTM A1008
  - Other steels may be used if they meet the following:
    - 70,000 PSI minimum tensile strength
    - 20% minimum elongation in 2"
  - Wall thickness (uncoated) shall be within the range of 0.122" to 0.138"
  - Outside diameter (uncoated) shall be within the range of 2.867" to 2.893"
  - Galvanization per ASTM A153 or ASTM A653. For pre-coated steel tubing (ASTM A653), recast tube outside diameter shall be within the range of 2.867" to 2.893"
  - Schedule 80 Pipe (2.875" outside diameter)
    - 0.276" nominal wall thickness
    - Steel tubing per ASTM A500 or C
  - Other stainless or electric-resistance welded steel tubing or pipe with equivalent outside diameter and wall thickness may be used if they meet the following:
    - 42,000 PSI minimum yield strength
    - 42,000 PSI minimum tensile strength
    - 21% minimum elongation in 2"
  - Wall thickness (uncoated) shall be within the range of 0.168" to 0.204"
  - Outside diameter (uncoated) shall be within the range of 2.855" to 2.895"
  - Galvanization per ASTM A153
- See the Traffic Operations Division website for detailed drawings of sign clamps and Texas Universal Triangular Slipbase System components. The website address is: <http://www.txdot.gov/locations/traffic.htm>
- Sign supports shall not be bolted except where shown. Sign support posts shall not be bolted.

**ASSEMBLY PROCEDURE**

**Foundation**

- Prepare 12-inch diameter by 42-inch deep hole. If solid rock is encountered, the depth of the hole may be reduced such that it is a minimum of 18 inches into the solid rock.
- The Engineer may permit batches of concrete less than 2 cubic yards to be mixed with a portable motor-or-hand concrete mixer. For small placements, less than 0.5 cubic yards, hand mixing in a suitable container may be allowed by Engineer. Concrete shall be Class B.
- Push the pipe end of the slip base stub into the center of the concrete. Rotate the stub back and forth while just pushing it down into the concrete to ensure good contact between the concrete and stub. Continue to work the stub into the concrete until it is between 2 to 4 inches above the ground.
- Fill the stub. Allow a minimum of 4 days to set, unless otherwise directed by the Engineer.
- The triangular slipbase system is multifunctional and is designed to release when struck from any direction.

**Support**

- Set support so that the bottom of the sign will be 7 to 7.5 feet above the edge of the roadway (i.e., edge of the closest lane when slip plate is below the edge of roadway or 7 to 7.5 feet above the sign plate when the slip plate is above the edge of the roadway). The cut shall be grade and straight.
- Use the sign support to support using connections shown. When multiple signs are installed on the same support, ensure the minimum clearance between each sign is maintained. See SMD(SLIP-2) for clearances based on sign types.

**CONCRETE ANCHOR**

Concrete anchor consists of 5/8" diameter stud bolt with one (1) 3/4" diameter bolt threads on the upper end, and hardened washer per ASTM F436. The stud bolt shall have a minimum yield and ultimate tensile strength of 50 and 75 ksi, respectively. Nuts, bolts and washers shall be galvanized per Item 445, "Galvanizing." Adhesive type anchors shall have stud bolts installed with Type III epoxy per DMS-8100. Epoxies and Adhesives: Adhesive anchors must be installed per manufacturer's recommendations. Top of bolt must extend at least 1/2 inch with top of weight concrete with 0.5 1/2" minimum embedment. Anchor shall have a minimum ultimate tension and shear of 3500 and 3100 psi, respectively.

### FRICION CAP DETAIL

**FRICION CAP DETAIL**

Friction caps may be manufactured from hot rolled or cold rolled steel sheets. The minimum sheet metal thickness shall be 24 gauge for all cap sizes. The rim edges shall be reasonably straight and smooth. Caps shall be sized and formed in such a manner as to produce a drive-on friction fit and have no tendency to rock when seated on the pipe. The depth shall be sufficient to give positive protection against entrance of rainwater. They shall be free of sharp creases or indentations and show no evidence of metal fracture. Caps shall have an electrocoat finish of zinc in accordance with the requirements of ASTM B633 Class FE/2B.

### SIGN SUPPORT DESCRIPTIVE CODES

(Descriptive Codes correspond to project estimate and quantities sheets)

SM RD SGN ASSM TY XXXX(X)XX(X)-XXXX

**POST**

- FRP - Fiberglass Reinforced Plastic Pipe (see SMD(FRP))
- HT - Hot-dipped Tubing (see SMD(HT))
- HTG - 10 BNC Tubing (see SMD(SLIP-1) to (SLIP-3))
- S80 - Schedule 80 Pipe (see SMD(SLIP-1) to (SLIP-3))

**Number of Posts (1 or 2)**

**Anchor Type**

- UA - Universal Anchor - Galvanized (see SMD(FRP) and (HT))
- UB - Universal Anchor - Bolted (see SMD(FRP) and (HT))
- WC - Wedge Anchor (see SMD(HT))
- WP - Wedge Anchor (see SMD(HT))
- GA - Galvanized - Bolted (see SMD(SLIP-1) to (SLIP-3))
- SB - Silabases - Bolted (see SMD(SLIP-1) to (SLIP-3))

**Sign Mounting Description**

- P - Prefab. "Plate" (see SMD(SLIP-1) to (SLIP-3), (HT), (FRP))
- U - Prefab. "U" (see SMD(SLIP-1) to (SLIP-3), (HT))
- IF - If Required
- EXT or EXT - Number of Extensions (see SMD(SLIP-1) to (SLIP-3), (HT))
- EA - Extruded Alum. Window (see SMD(SLIP-1) to (SLIP-3))
- EC - 1/2 x 1/2 Wing Channel (see SMD(SLIP-1) to (SLIP-3))
- EXL - Extruded Aluminum Sign Panels (see SMD(SLIP-3))

### REQUIRED CLEARANCE FOR BREAKAWAY SUPPORT

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

### SIGN LOCATION

**PAVED SHOULDERS**

**T-INTERSECTION**

**LESS THAN 6 FT. WIDE**

**GREATER THAN 6 FT. WIDE**

**BEHIND BARRIER**

**BEHIND CONCRETE BARRIER**

**CURB & GUTTER OR RAISED ISLAND**

**SIGNS WITH PLAQUES**

**RESTRICTED RIGHT-OF-WAY (When 6 ft. min. is not possible.)**

Signs shall be mounted using the following condition that results in the greatest sign elevation:

- a minimum of 7 to a maximum of 7.5 feet above the edge of the travel lane or
- a minimum of 7 to a maximum of 7.5 feet above the grade at the base of the support when sign is installed on the backstop.

The maximum values may be increased when directed by the Engineer.

See the Traffic Operations Division website for detailed drawings of sign clamps, Triangular Slipbase System components and Wedge Anchor System components.

The website address is: <http://www.txdot.gov/locations/traffic.htm>

NO.	REVISION	BY	DATE	CHECKED

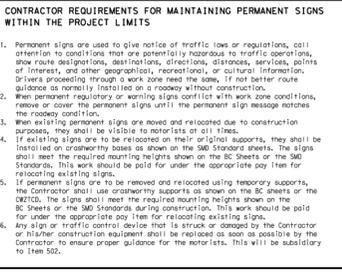
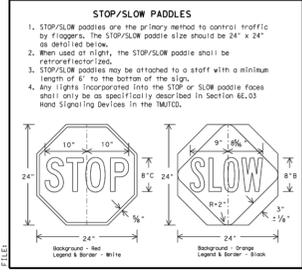
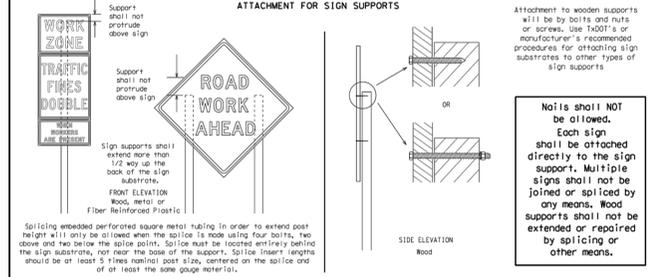
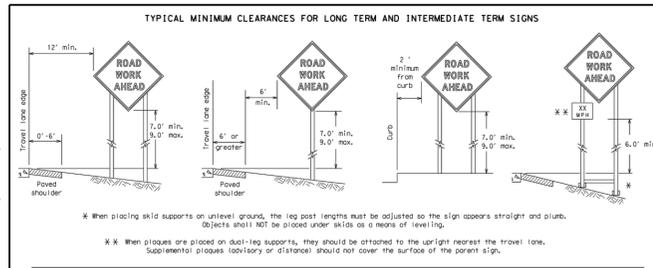
SCALE: HORIZ N/A, VERT N/A, DATE MARCH 2022

**MIDLAND COUNTY PRECINCT 2**  
SOUTH COUNTY ROAD 1180  
MIDLAND COUNTY, TEXAS

DA PROJECT: B006799.001  
SHEET: 7

**TxDOT SIGNAGE DETAILS**

3/8/2022



**GENERAL NOTES FOR WORK ZONE SIGNS**

- Contractor shall install and maintain signs in a straight and plumb condition and/or as directed by the Engineer.
- Wooden sign posts shall be painted white.
- Barricades shall not be used as sign supports.
- All signs shall be installed in accordance with the plans or as directed by the Engineer. Signs shall be used to regulate, warn, and advise the traveling public safely through the work zone.
- The Contractor may furnish either the sign design shown in the plans or the "Standard Highway Sign Designs for Texas" (SHSD). The Engineer will determine which design shall be used. Signs shall be installed in accordance with the plans or as directed by the Engineer.
- The Contractor shall be responsible for obtaining all necessary permits for the work zone signs. This includes obtaining the changes in the Inspector's 14007 diary and having both the Inspector and Contractor Initial and date the agreed-upon changes.
- The Contractor shall furnish sign supports listed in the "Standard Highway Sign Designs for Texas" (SHSD). The Contractor shall install the sign supports in accordance with the manufacturer's recommendations. If there is a question regarding installation procedures, the Contractor shall consult with the Engineer/Inspector.
- The Contractor shall be responsible for installing signs on approved supports and replacing signs with damaged or cracked substrates and/or damaged or faded reflective sheeting as directed by the Engineer/Inspector.
- Intermediate-term signs shall be shown only on the back of the sign substrate. The maximum height of letters and/or company logos used for identification shall be 1 inch.
- The Contractor shall replace compacted wood posts. New or damaged wood sign posts shall not be utilized.

**DURATION OF WORK ZONE SIGNS BY THE "Texas Manual on Uniform Traffic Control Devices" (Part 6)**

- Use of all signs and the type of sign substrates can vary based on the type of work being performed. The Engineer is responsible for selecting the appropriate size sign for the type of work being performed. The Contractor is responsible for ensuring the sign mounting height and substrate meets manufacturer's recommendations in regard to construction and duration of work requirements.
- Long-term stationary work that occupies a location more than 3 days.
- Intermediate-term stationary work that occupies a location more than one day but less than 3 days, or nighttime work lasting more than one hour.
- Short-term stationary work that occupies a location for more than 1 hour in a single daylight period.
- Short duration work that occupies a location up to 1 hour.
- Mobile work that occurs continuously or intermittently (stop-and-go) for up to approximately 15 minutes.

**SIGN MOUNTING HEIGHT**

- The bottom of long-term/intermediate-term signs shall be at least 7 feet, but not more than 9 feet, above the paved surface, except as shown for supplemental plaques mounted below other signs.
- The bottom of short-term/short duration signs shall be a minimum of 1 foot above the pavement surface but no more than 2 feet above the ground.
- Long-term/intermediate-term signs may be used in lieu of short-term/short duration signs and shall be removed at the end of the roadway or raised to appropriate long-term/intermediate-term sign heights.
- Short-term/short duration signs shall be used only during daylight and shall be removed at the end of the roadway or raised to appropriate long-term/intermediate-term sign heights.
- Regulatory signs shall be mounted at least 7 feet, but not more than 9 feet, above the paved surface regardless of work duration.

**LIFE OF SIGNS**

- The Contractor shall furnish the sign sizes shown on BC (2) unless otherwise shown in the plans or as directed by the Engineer.

**SIGN SUBSTRATES**

- All sign substrates shall be installed in accordance with the manufacturer's recommendations for the type of sign support that is being used. The SHSD lists each substrate that can be used on the different types and models of sign supports.
- Sign substrates shall be made of a material that is resistant to weathering and has a minimum thickness of 1/2 inch by 6" wide, depending on the type of sign support. The clear shall be attached to the back of the sign using wood screws that do not penetrate the face of the sign panel. The screws shall be placed on both sides of the splice and spaced at 6" intervals. The Contractor may approve other methods of splicing the sign face.

**REFLECTIVE SHEETING**

- All signs shall be retroreflective and constructed of sheeting meeting the color and retroreflectivity requirements of M8-8300 or M8-8300R for sign sheeting. The web address for M8-8300 Type A, shall be used for signs with a white background.
- White sheeting meeting the requirements of M8-8300 Type A, shall be used for signs with a white background.
- Clear sheeting meeting the requirements of M8-8300 Type B, or Type T, shall be used for right signs with orange backgrounds.

**SIGN LETTERS**

- Sign letters and numbers shall be clear, and open rounded type appropriate alphabet letters as approved by the Federal Highway Administration (FHWA) and as published in the "Standard Highway Sign Design for Texas" manual. Signs, letters and numbers shall be of clear size as specified in accordance with Department Standards and Specifications.

**REMOVING OR COVERING**

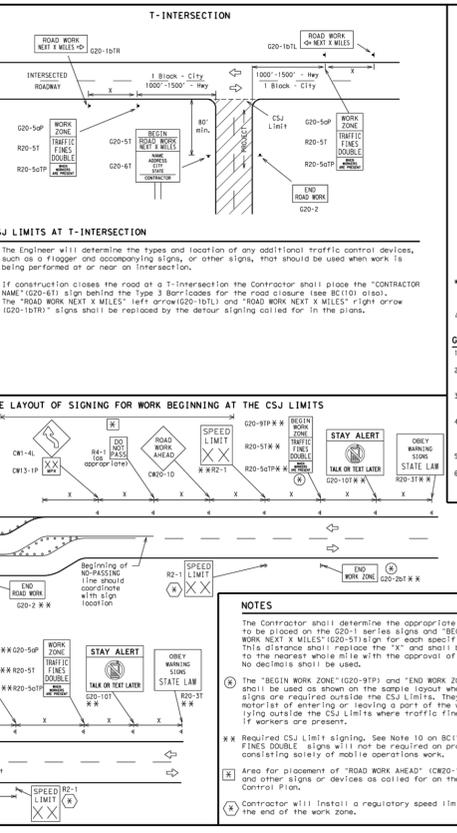
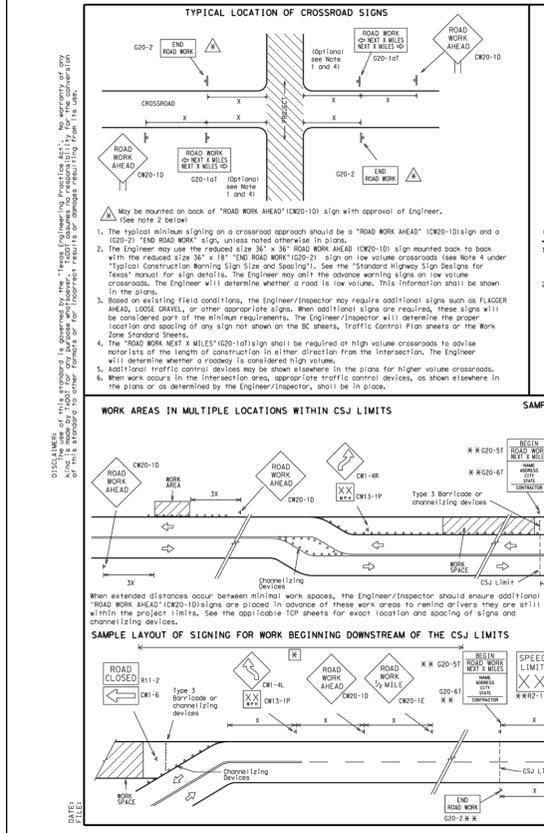
- When sign messages may be confusing or do not apply, the signs shall be removed or completely covered.
- Long-term stationary or intermediate-term signs shall be removed or completely covered when the work zone is no longer needed or when the sign message is not applicable. This technique may not be used for signs installed in the median of divided highways or near other intersections where the sign may be seen from opposing traffic.
- Signs installed on wooden posts shall not be turned at 90 degree angles to the roadway. These signs should be removed or completely covered when not required.
- When signs are covered, the material used shall be opaque, such as heavy black plastic, or other materials which will completely cover the entire sign face and maintain their opaque properties under outdoor conditions of light, without causing the sign sheeting to be damaged.
- Barrels shall not be used to cover signs.
- Signs and other signs shall be removed and holes filled upon completion of work.

**SIGN SUPPORT WEIGHTS**

- Sign supports shall be designed to require the use of weights to keep from turning over, and shall be designed to require the use of weights to keep from turning over, and shall be designed to require the use of weights to keep from turning over, and shall be designed to require the use of weights to keep from turning over.
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**PLAQUES ON SIGNS**

- Plaque shall be used to draw attention to warning signs. When used, the plaque shall be 18 inches square or larger and shall be orange or fluorescent yellow-green in color. Plaques shall not be allowed to cover any portion of the sign face.

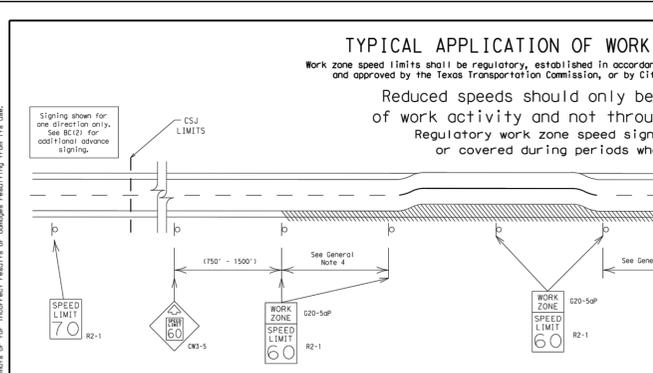


**TYPICAL CONSTRUCTION WARNING SIGN SIZE AND SPACING**

Sign Number or Series	Conventional Road	Expressway/Freeway	Posted Speed	Sign Spacing "x"
CR20-1	48" x 48"	48" x 48"	30	120
CR21	48" x 48"	48" x 48"	35	160
CR22	48" x 48"	48" x 48"	40	240
CR23	48" x 48"	48" x 48"	45	320
CR24	48" x 48"	48" x 48"	50	400
CR1, CR2, CR3, CR4, CR5, CR6, CR7, CR8, CR9, CR10, CR11, CR12	48" x 48"	48" x 48"	55	500 <sup>2</sup>
			60	600 <sup>2</sup>
			65	700 <sup>2</sup>
			70	800 <sup>2</sup>
			75	900 <sup>2</sup>
			80	1000 <sup>2</sup>
			85	1100 <sup>2</sup>
			90	1200 <sup>2</sup>
			95	1300 <sup>2</sup>
			100	1400 <sup>2</sup>

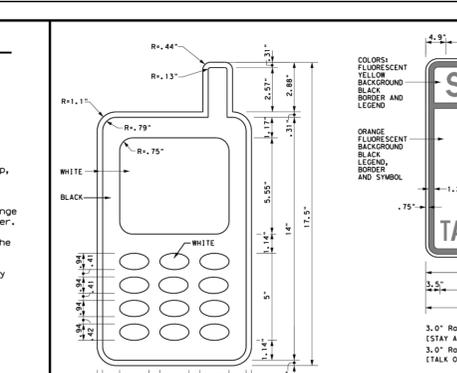
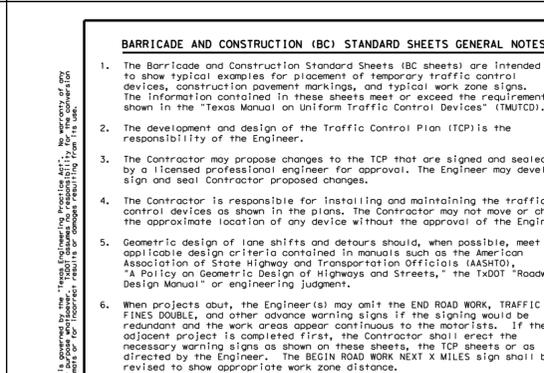
**GENERAL NOTES**

- Special or larger size signs may be used as necessary.
- Distance between signs should be increased as required to have 1/2 mile or more advance warning.
- 36" x 36" "ROAD WORK AHEAD" (CR20-1) signs may be used on low volume crossroads at the discretion of the Engineer. See Note 2 under "Typical Location of Crossroad Signs".
- Only diamond shaped warning sign sizes are indicated.
- See sign listing in "TMUTCD", Sign Appendix or the "Standard Highway Sign Designs for Texas" manual for complete list of available sign sizes.



**GENERAL NOTES**

- Regulatory work zone speed limit signs should be used only for sections of construction projects where speed control is of major importance.
- Regulatory work zone speed limit signs shall be placed on supports at a 7 foot minimum mounting height.
- Speed zone signs are illustrated for one direction of travel and are normally posted for each direction of travel.
- Frequency of work zone speed limit signs should be:
  - 40 mph and greater: 0.2 to 2 miles
  - 35 mph and less: 0.2 to 1 mile
- Regulatory speed limit signs shall have black legend and border on a white reflective background (see "Reflective Sheeting" on BC(4)).
- Fabrication, erection and maintenance of the "ADVANCE SPEED LIMIT" (CR3-5) sign, "WORK ZONE SPEED LIMIT" plaque and the "SPEED LIMIT" (CR2-1) signs shall not be paid for directly, but shall be considered subsidiary to Item 502.
- Turning signs from view, laying signs over or down will not be allowed, unless otherwise noted under "REMOVING OR COVERING" on BC(4).
- Techniques that may help reduce traffic speeds include but are not limited to:
  - A. Low overcast, roof or overhang.
  - B. Flagger stationed next to sign.
  - C. Portable changeable message sign (PMS).
  - D. Low-over (drone) rotor transmitter.
  - E. Speed monitor trailers or signs.
- Speeds shown on details above are for illustration only. Work Zone Speed Limits should only be posted as approved for each project.
- For more specific guidance concerning the type of work, work zone conditions and factors impacting allowable regulatory construction speed zone reduction see TxDOT Form #1204 in the TxDOT e-form system.



**THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT**  
http://www.txdot.gov

**COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST (CWZCD)**

**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)**

**TRAFFIC ENGINEERING STANDARD SHEETS**

**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 geometries with a lower design speed are present in the work zone and modification of the geometries 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 change in the roadway that requires a reduced speed for motorists to safely negotiate the work area, including:

- rough road or damaged pavement surface
- substantial alteration of roadway geometrics (diversions)
- construction detours
- grade
- width
- other conditions readily apparent to the driver

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

**SHORT TERM WORK ZONE SPEED LIMITS**

This type of work zone speed limit should 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 shall be removed or covered.

(See Removing or Covering on BC(4)).

**BARRICADE AND CONSTRUCTION WORK ZONE SPEED LIMIT**

**BC (3) - 14**

**GENERAL NOTES**

- Regulatory work zone speed limit signs should be used only for sections of construction projects where speed control is of major importance.
- Regulatory work zone speed limit signs shall be placed on supports at a 7 foot minimum mounting height.
- Speed zone signs are illustrated for one direction of travel and are normally posted for each direction of travel.
- Frequency of work zone speed limit signs should be:
  - 40 mph and greater: 0.2 to 2 miles
  - 35 mph and less: 0.2 to 1 mile
- Regulatory speed limit signs shall have black legend and border on a white reflective background (see "Reflective Sheeting" on BC(4)).
- Fabrication, erection and maintenance of the "ADVANCE SPEED LIMIT" (CR3-5) sign, "WORK ZONE SPEED LIMIT" plaque and the "SPEED LIMIT" (CR2-1) signs shall not be paid for directly, but shall be considered subsidiary to Item 502.
- Turning signs from view, laying signs over or down will not be allowed, unless otherwise noted under "REMOVING OR COVERING" on BC(4).
- Techniques that may help reduce traffic speeds include but are not limited to:
  - A. Low overcast, roof or overhang.
  - B. Flagger stationed next to sign.
  - C. Portable changeable message sign (PMS).
  - D. Low-over (drone) rotor transmitter.
  - E. Speed monitor trailers or signs.
- Speeds shown on details above are for illustration only. Work Zone Speed Limits should only be posted as approved for each project.
- For more specific guidance concerning the type of work, work zone conditions and factors impacting allowable regulatory construction speed zone reduction see TxDOT Form #1204 in the TxDOT e-form system.

**BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:**

- The Barricade and Construction Standard Sheets (BC sheets) are intended to show typical examples for placement of temporary traffic control devices, 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).
- The development and design of the Traffic Control Plan (TCP) is the responsibility of the Engineer.
- 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.
- 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.
- 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.
- When projects allow, the Engineer may omit the END ROAD WORK, TRAFFIC FINES DOUBLE, and other advance warning signs if the signing would be redundant and the work areas appear continuous to the motorists. If the adjacent project is completed first, the Contractor shall erect the necessary warning signs as shown on these sheets, the TCP sheets or as directed by the Engineer. The BEGIN ROAD WORK NEXT X MILES sign shall be revised to show appropriate work zone distance.
- The Engineer may require duplicate warning signs on the median side of divided highways where median width will permit and traffic volumes justify the signing.
- All signs shall be constructed in accordance with the details found in the "Standard Highway Sign Designs for Texas," 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.
- 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.
- As shown on BC(2), the OBEY WARNING SIGNS STATE LAW sign, STAY ALERT TALK OR TEXT LATER (see Sign Detail G20-10T) and the WORK ZONE SPEED LIMIT sign with plaque shall be erected in advance of the CSJ limits. However, the TRAFFIC FINES DOUBLE sign will not be required on projects consisting solely of mobile operation work, such as striping or milling edge line rumble strips. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK signs shall be erected at or near the CSJ limits.
- Except for devices required by Note 10, traffic control devices should be in place only while work is actually in progress or a definite need exists.
- The Engineer has the final decision on the location of all traffic control devices.
- 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 APPAREL NOTES:**

- 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.

**STAY ALERT TALK OR TEXT LATER**

**Sign Detail (G20-10T)**

Only pre-qualified products may be used. The "Compliant Work Zone Traffic Control Devices List" (CWZCD) describes pre-qualified products and their sources and may be found on-line at the web address given below or by contacting:

Texas Department of Transportation  
Traffic Operations Division - TE  
Phone (512) 416-3118

**BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS**

**BC (1) - 14**

**GENERAL NOTES**

- Regulatory work zone speed limit signs should be used only for sections of construction projects where speed control is of major importance.
- Regulatory work zone speed limit signs shall be placed on supports at a 7 foot minimum mounting height.
- Speed zone signs are illustrated for one direction of travel and are normally posted for each direction of travel.
- Frequency of work zone speed limit signs should be:
  - 40 mph and greater: 0.2 to 2 miles
  - 35 mph and less: 0.2 to 1 mile
- Regulatory speed limit signs shall have black legend and border on a white reflective background (see "Reflective Sheeting" on BC(4)).
- Fabrication, erection and maintenance of the "ADVANCE SPEED LIMIT" (CR3-5) sign, "WORK ZONE SPEED LIMIT" plaque and the "SPEED LIMIT" (CR2-1) signs shall not be paid for directly, but shall be considered subsidiary to Item 502.
- Turning signs from view, laying signs over or down will not be allowed, unless otherwise noted under "REMOVING OR COVERING" on BC(4).
- Techniques that may help reduce traffic speeds include but are not limited to:
  - A. Low overcast, roof or overhang.
  - B. Flagger stationed next to sign.
  - C. Portable changeable message sign (PMS).
  - D. Low-over (drone) rotor transmitter.
  - E. Speed monitor trailers or signs.
- Speeds shown on details above are for illustration only. Work Zone Speed Limits should only be posted as approved for each project.
- For more specific guidance concerning the type of work, work zone conditions and factors impacting allowable regulatory construction speed zone reduction see TxDOT Form #1204 in the TxDOT e-form system.

NO.	REVISION	BY	DATE	CHECKED

SCALE	HORIZ	VERT
	N/A	N/A
DATE	MARCH 2022	

**MIDLAND COUNTY PRECINCT 2**

**SOUTH COUNTY ROAD 1180**

**MIDLAND COUNTY, TEXAS**

**TxDOT TRAFFIC CONTROL DETAILS**

**1 OF 3**

**DA PROJECT**  
B006799.001

**SHEET**  
8

**DUNAWAY**

4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705

Tel: 432.699.4889

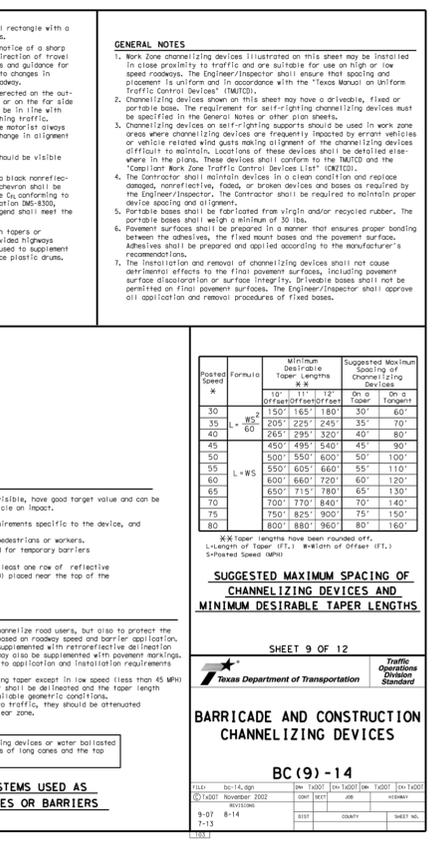
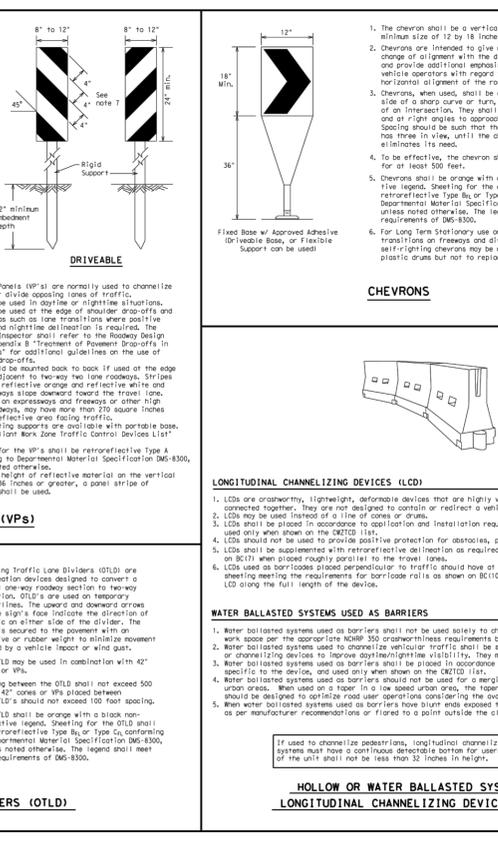
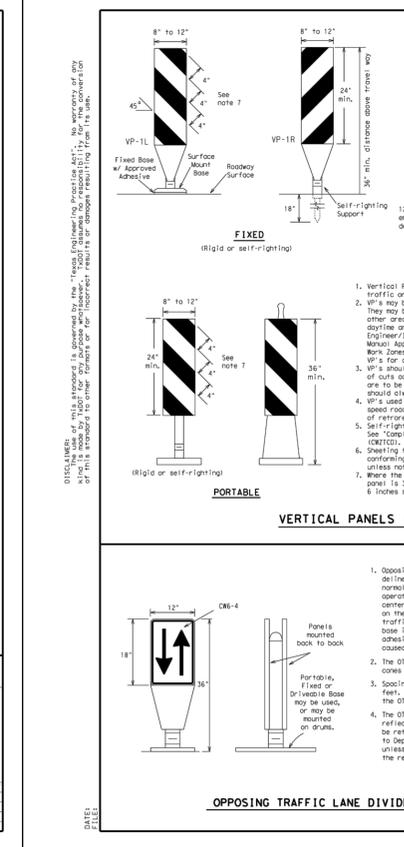
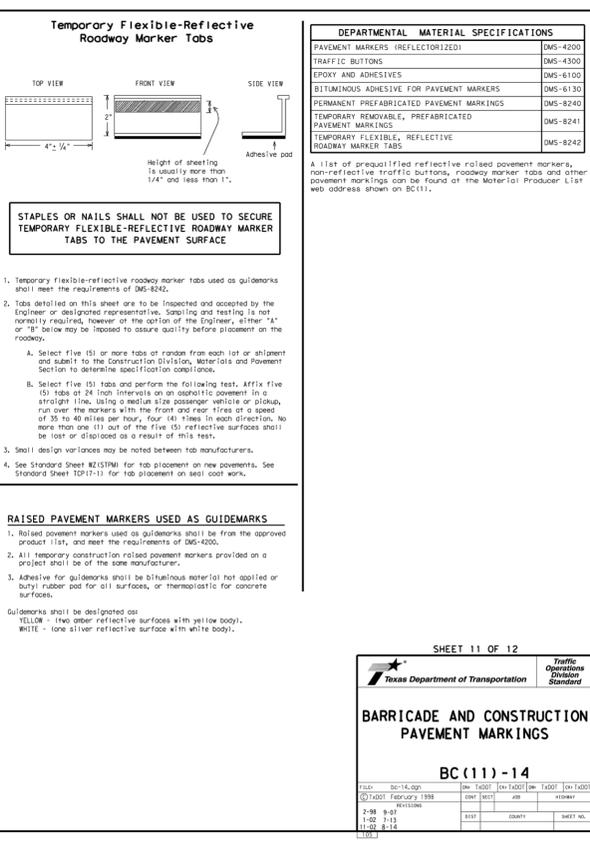
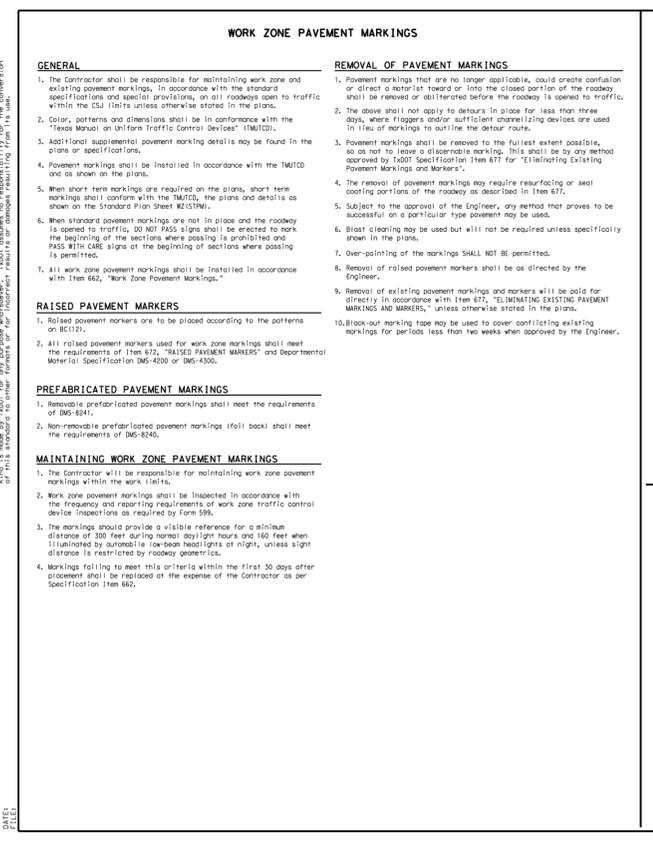
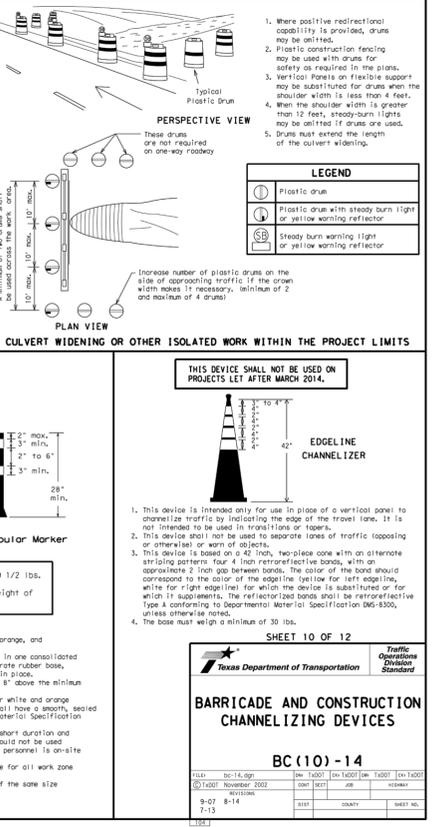
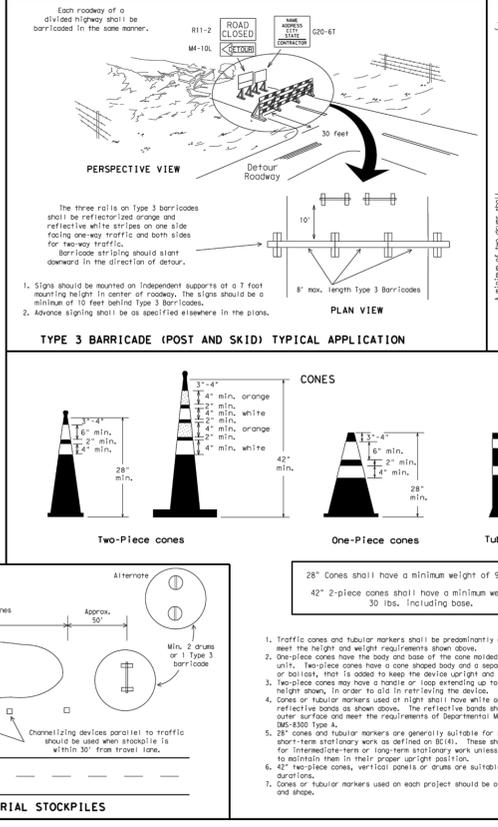
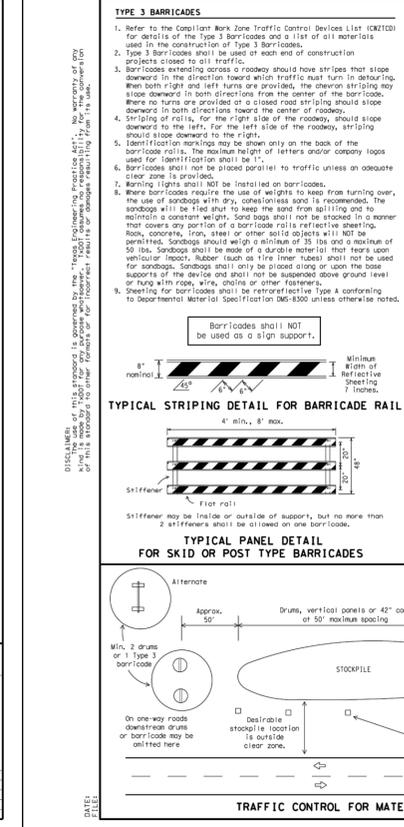
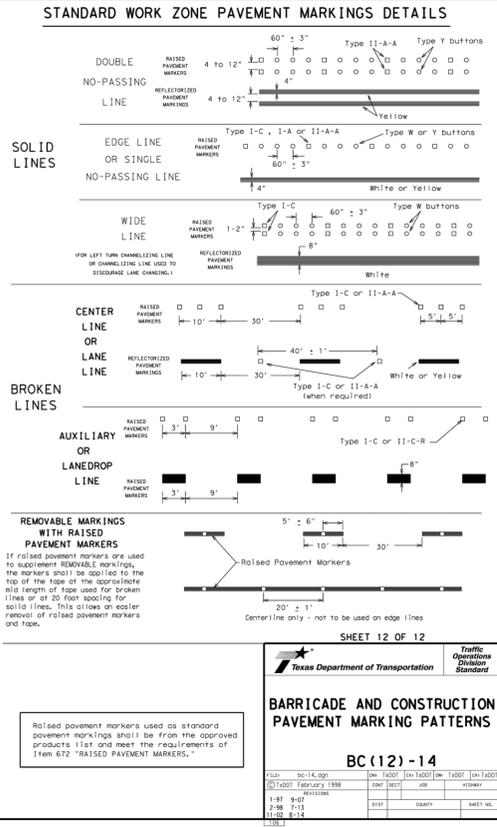
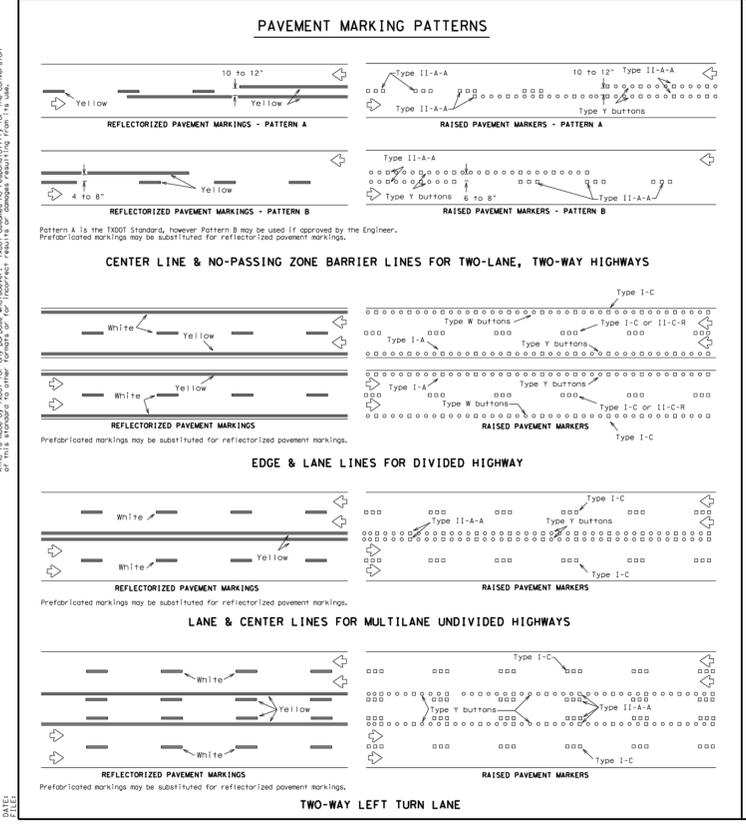
TX REG. F-1114

Professional Engineer  
132068  
J. A. Schmitt  
3/8/2022

NO.	REVISION	BY	DATE	CHECKED

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PLOTTER: HP DesignJet 500...  
PLOT DATE: 3/8/2022 10:18:27





NO.	REVISION	BY	DATE	CHECKED

TxDOT DESIGNED	TxDOT DRAWN	JLB
SCALE	HORIZ N/A	VERT N/A
DATE	MARCH 2022	

**MIDLAND COUNTY**  
**MIDLAND, TEXAS**

SCALE  
HORIZ N/A  
VERT N/A  
DATE  
MARCH 2022

**DUNAWAY**  
4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705  
Tel: 432.699.4889  
TX REG. F-1114

STATE OF TEXAS  
PROFESSIONAL ENGINEER  
132068  
J. A. Schmitt  
3/8/2022

**MIDLAND COUNTY PRECINCT 2**  
**SOUTH COUNTY ROAD 1180**  
**MIDLAND COUNTY, TEXAS**

**TxDOT TRAFFIC CONTROL DETAILS**  
**3 OF 3**

DA PROJECT  
B06799.001

SHEET  
**10**



**WARNING TO CONTRACTOR:**

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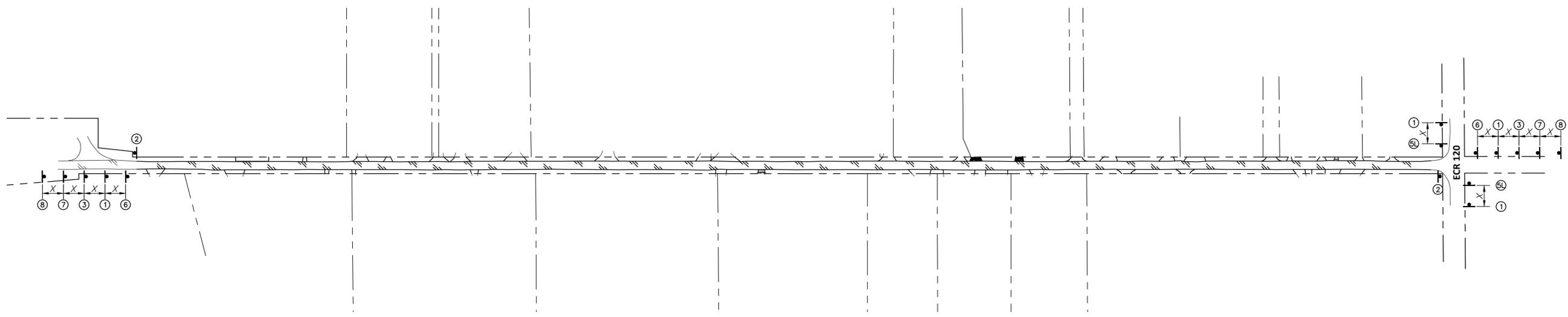
**STATE PLANE COORDINATE NOTE:**

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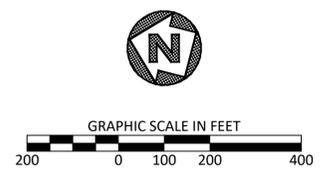
**BENCHMARK:**

SEE GENERAL NOTES (SHEET 1) FOR BENCHMARKS.

# SOUTH COUNTY ROAD 1180



①  CW20-1D 36" X 36"	②  G20-2 48" X 24"	③  R2-1 24" X 30"	④  G20-1gT 72" X 36"	⑤L  G20-1bTL 72" X 24"	⑥  G20-5T 48" X 24"  G20-6 48" X 30"	⑦  G20-9TP 36" X 30" R20-5T 36" X 36" R20-5aTP 36" X 18"	⑧  R20-3T 48" X 42"
			⑤R  G20-1bTR 72" X 24"				



- GENERAL TRAFFIC CONTROL NOTES:**
1. THE ADVANCE WARNING SIGNS SHALL BE LOCATED IN ADVANCE OF THE PHASING TRAFFIC CONTROL SEQUENCING FOR THE ABOVE LOCATIONS.
  2. THE ADVANCE WARNING SIGNS SHALL REMAIN IN PLACE FOR THE DURATION OF THE CONTRACT OR AS DIRECTED BY THE ENGINEER.
  3. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 10' CLEAR ZONE (MEASURED FROM THE EDGE OF THE ADJACENT TRAFFIC LANE) DURING NON-WORK HOURS.
  4. "X" REFER TO BC(2)-14 FOR SPACING.
  5. WORK ALONG ROADWAY SHALL BE DURING DAYLIGHT HOURS ACCORDING TO TXDOT STANDARDS TCP(2-3)-18. BOTH LANES OF TRAFFIC WILL REMAIN OPEN DURING CONSTRUCTION.

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 PLOTTED BY: ARIAN ARANA  
 PLOTTED AT: 3/8/2022

NO.	REVISION	BY	DATE

DESIGNED AJA	<b>MIDLAND COUNTY MIDLAND, TEXAS</b>
DRAWN JAS	
CHECKED	

SCALE
HORIZ 1" = 200'
VERT N/A
DATE MARCH 2022

**DUNAWAY**

4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705  
Tel: 432.699.4889  
[TX REG. F-1114]

Jessica A. Schuttler  
 3/8/2022

MIDLAND COUNTY PRECINCT 2 SOUTH COUNTY ROAD 1180 MIDLAND COUNTY, TEXAS	DA PROJECT B006799.001
<b>TRAFFIC CONTROL PLAN ADVANCED WARNING SIGNS LAYOUT</b>	SHEET <b>11</b>





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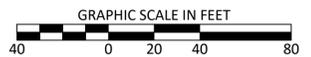
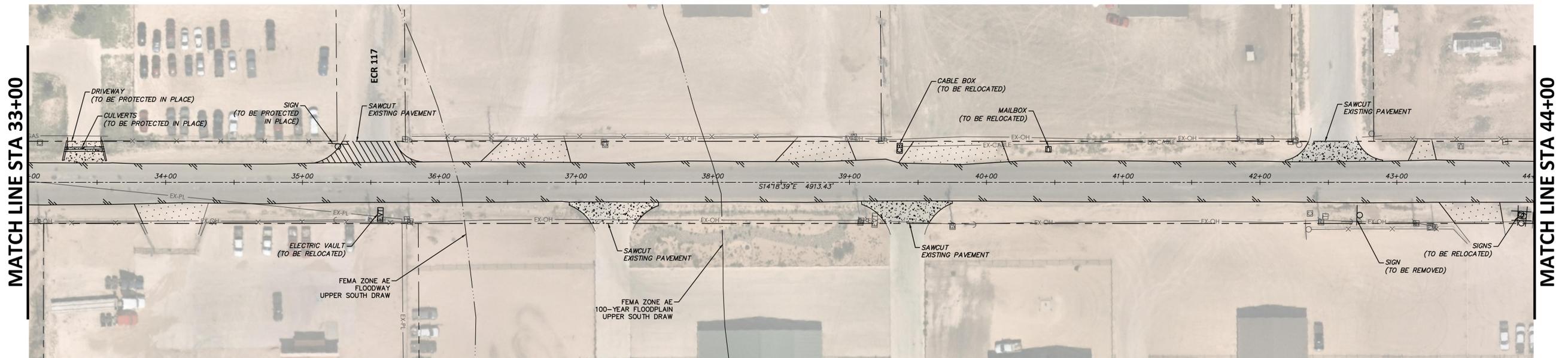
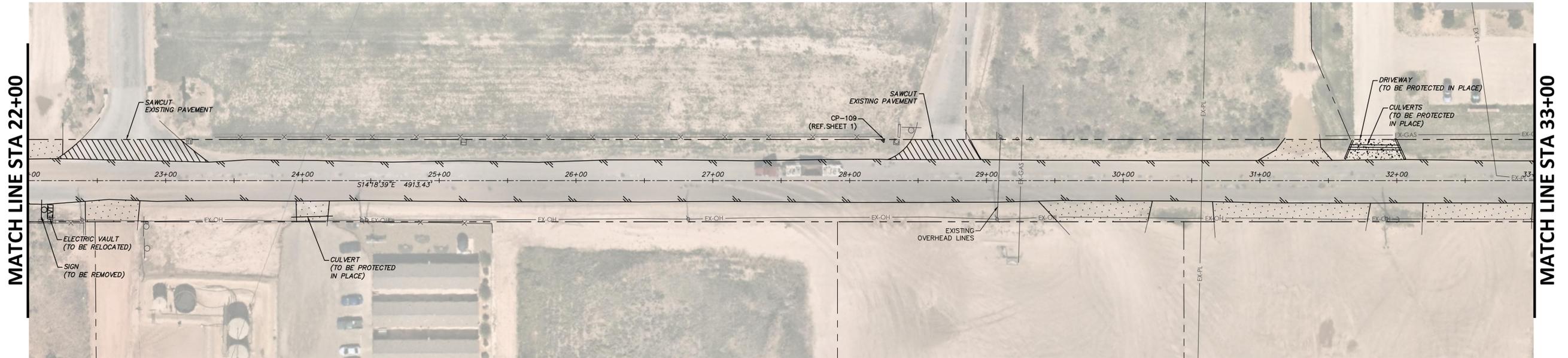
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**BENCHMARK:**

SEE GENERAL NOTES (SHEET 1) FOR BENCHMARKS.

# SOUTH COUNTY ROAD 1180



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 PLOTTED BY: Alissa Adams  
 PLOTTED DATE: 3/13/2022

NO.	REVISION	BY	DATE	CHECKED

DESIGNED	AJA
DRAWN	AJA
CHECKED	JAS

**MIDLAND COUNTY  
MIDLAND, TEXAS**

SCALE	HORIZ	1" = 40'
	VERT	N/A
	DATE	MARCH 2022

**DUNAWAY**  
 4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705  
 Tel: 432.699.4889  
 (TX REG. F-1114)

STATE OF TEXAS  
 JESSICA A. SCHUTTNER  
 LICENSE NO. 132068  
 PROFESSIONAL ENGINEER  
*Jessica A. Schuttner*  
 3/8/2022

MIDLAND COUNTY PRECINCT 2 SOUTH COUNTY ROAD 1180 MIDLAND COUNTY, TEXAS	DA PROJECT B006799.001
OVERALL ROADWAY STATIONING STA 22+00 TO 44+00	SHEET <b>13</b>



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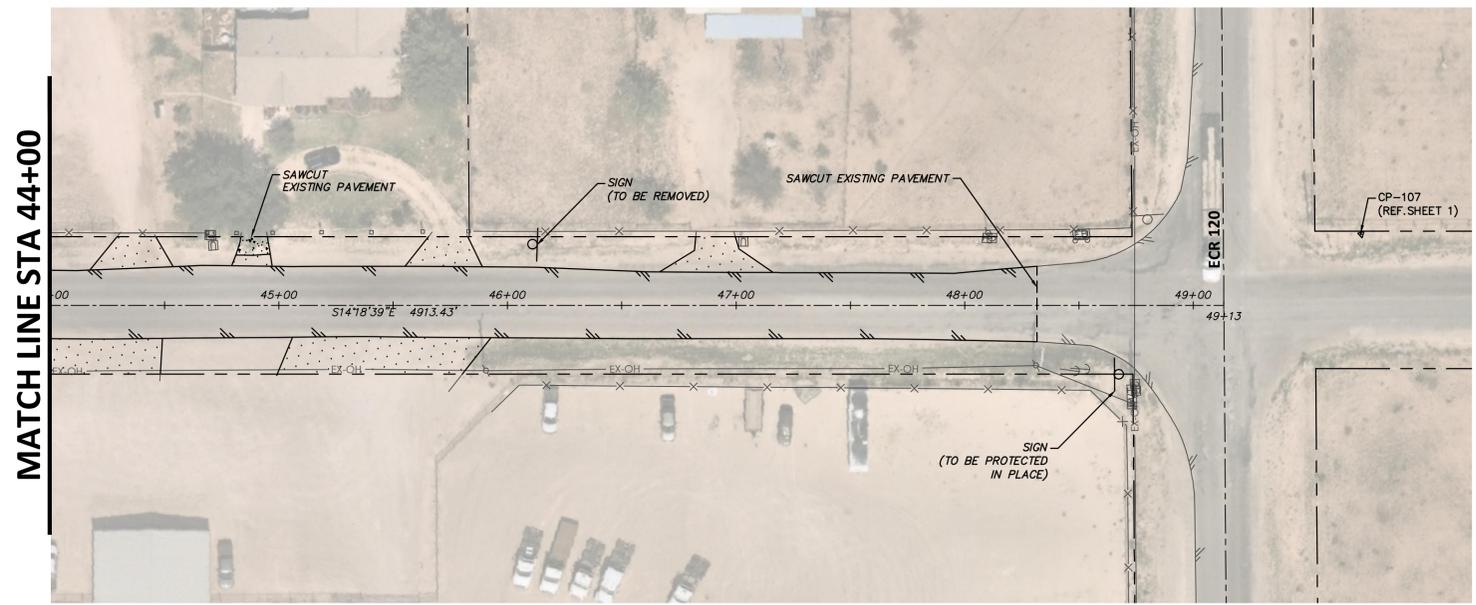
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# SOUTH COUNTY ROAD 1180



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 PLOTTED DATE: 3/18/2022

NO.	REVISION	BY	DATE

DESIGNED	AJA
DRAWN	JAS
CHECKED	

**MIDLAND COUNTY  
MIDLAND, TEXAS**

SCALE	1" = 40'
HORIZ	N/A
VERT	N/A
DATE	MARCH 2022

**DUNAWAY**
  
 4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
   
 Tel: 432.699.4889
   
 [TX REG. F-1114]

*Jessica A. Schuttler*
  
 3/8/2022

MIDLAND COUNTY PRECINCT 2	DA PROJECT B006799.001
SOUTH COUNTY ROAD 1180 MIDLAND COUNTY, TEXAS	SHEET
<b>OVERALL ROADWAY STATIONING STA 44+00 TO END</b>	<b>14</b>



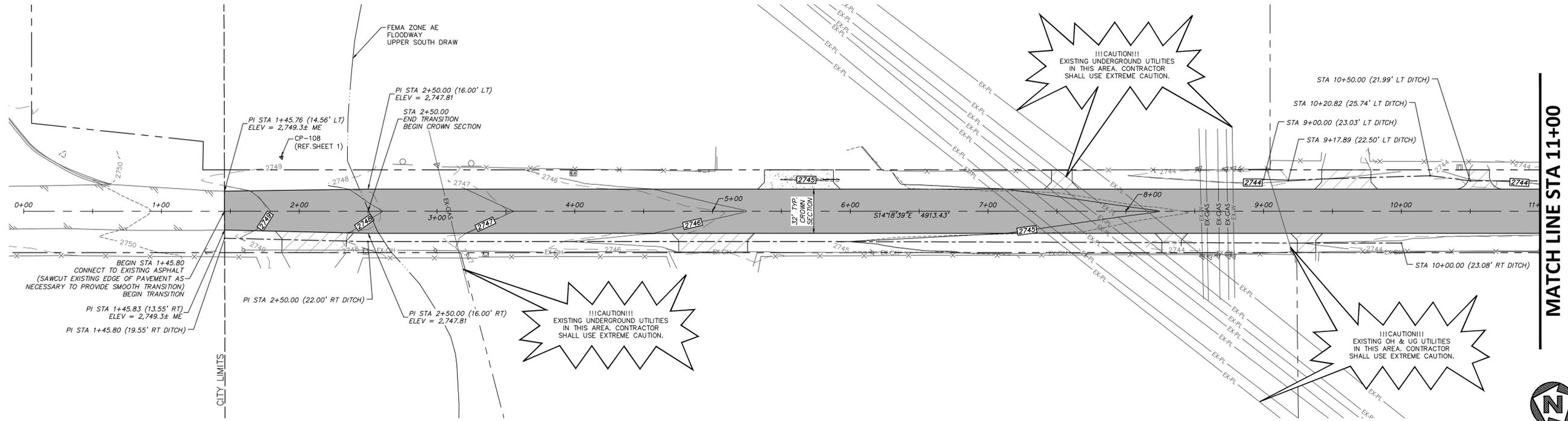
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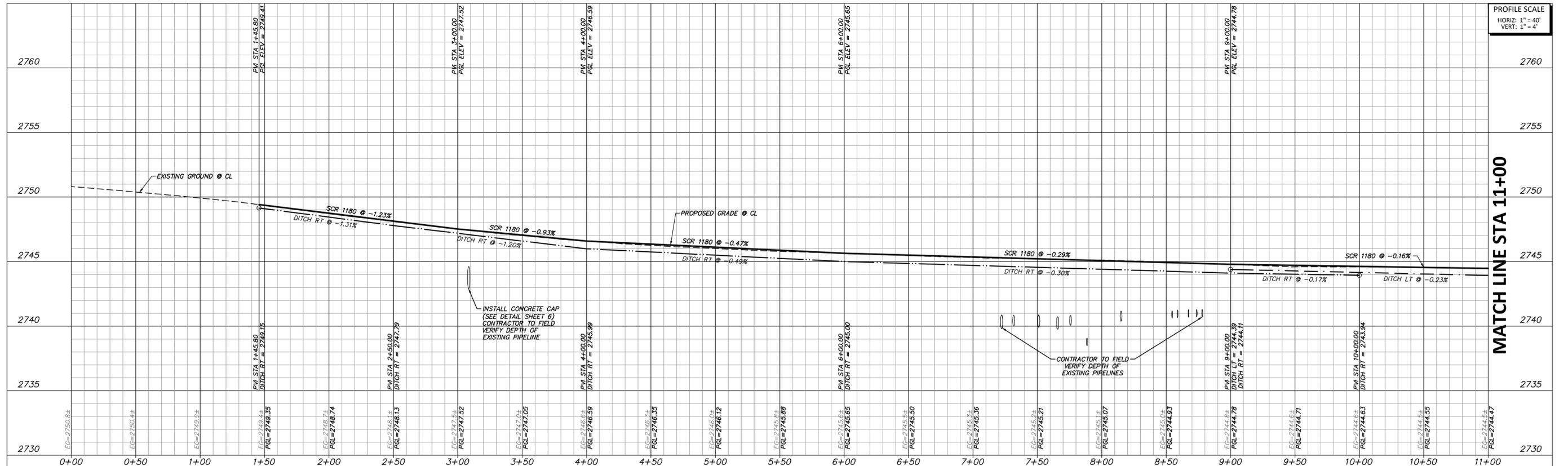
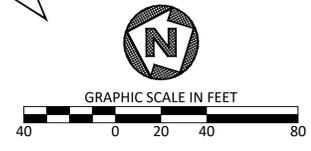
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**BENCHMARK:**  
SEE GENERAL NOTES (SHEET 1) FOR BENCHMARKS.



# SOUTH COUNTY ROAD 1180



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		JAS <td></td> <td>CHECKED</td>		CHECKED

**MIDLAND COUNTY  
MIDLAND, TEXAS**

SCALE  
HORIZ  
1" = 40'  
VERT  
1" = 4'  
DATE  
MARCH  
2022

**DUNAWAY**

4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705  
Tel: 432.699.4889  
[TX REG. F-1114]

STATE OF TEXAS  
JESSICA A. SCHUTTNER  
LICENSED PROFESSIONAL ENGINEER  
132068  
3/8/2022

MIDLAND COUNTY PRECINCT 2  
SOUTH COUNTY ROAD 1180  
MIDLAND COUNTY, TEXAS

PLAN AND PROFILE  
0+00 TO 11+00

DA PROJECT  
B006799.001

SHEET  
15



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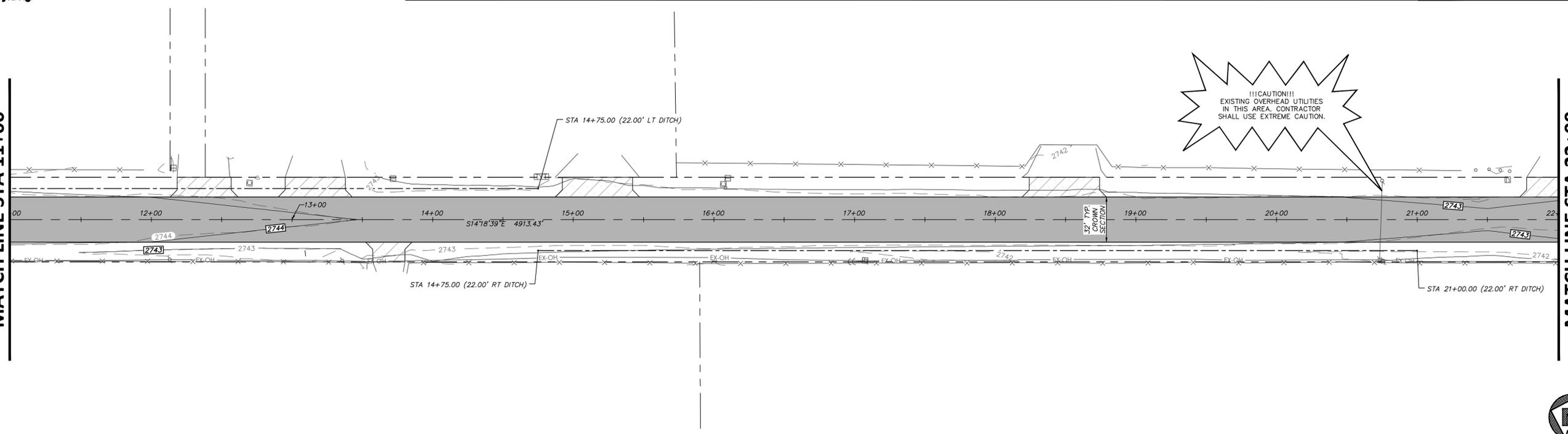
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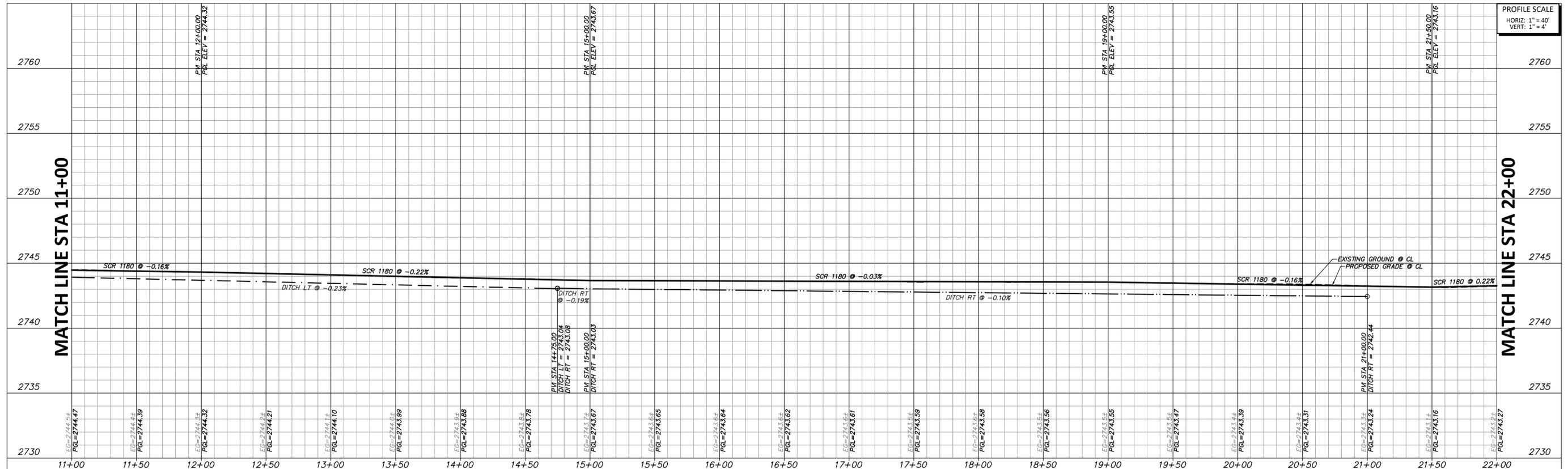
**BENCHMARK:**  
SEE GENERAL NOTES (SHEET 1) FOR BENCHMARKS.

MATCH LINE STA 11+00

MATCH LINE STA 22+00



## SOUTH COUNTY ROAD 1180



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 PLOTTED BY: Allison Adams  
 PLOTTED DATE: 9/13/2022

NO.	REVISION	BY	DATE	CHECKED

**AJA**  
 DESIGNED  
**AJA**  
 DRAWN  
**JAS**  
 CHECKED

SCALE  
 HORIZ  
 1" = 40'  
 VERT  
 1" = 4'  
 DATE  
 MARCH  
 2022

**DUNAWAY**  
 4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705  
 Tel: 432.699.4889  
 [TX REG. F-1114]

**MIDLAND COUNTY PRECINCT 2**  
**SOUTH COUNTY ROAD 1180**  
**MIDLAND COUNTY, TEXAS**  
**PLAN AND PROFILE**  
**11+00 TO 22+00**

DA PROJECT  
 B006799.001  
 SHEET  
**16**



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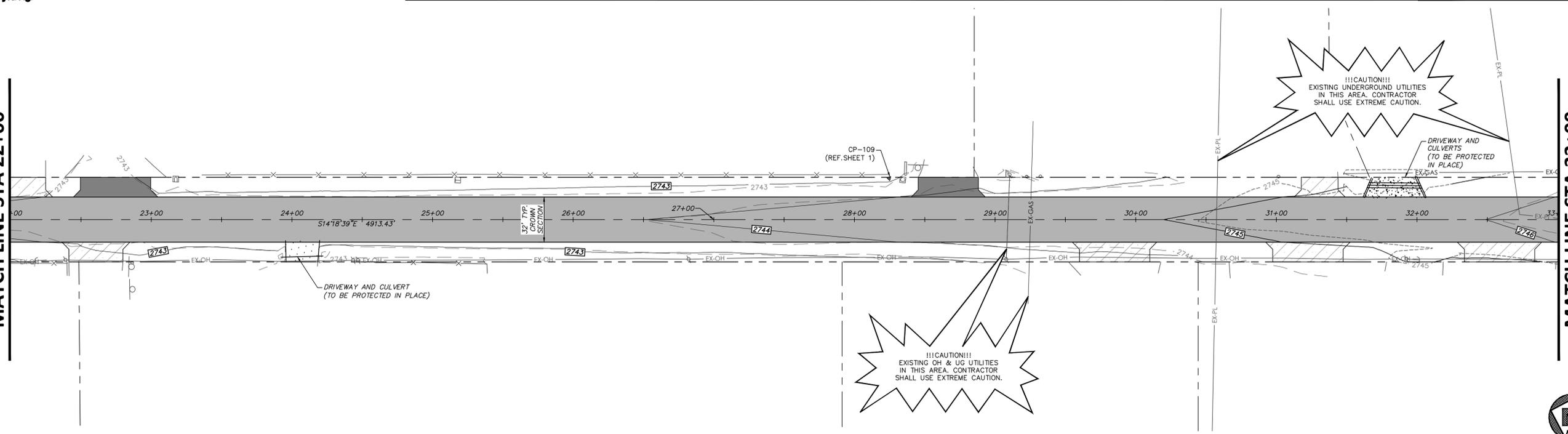
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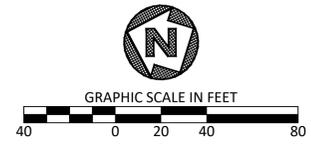
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SEE GENERAL NOTES (SHEET 1) FOR BENCHMARKS.

MATCH LINE STA 22+00

MATCH LINE STA 33+00

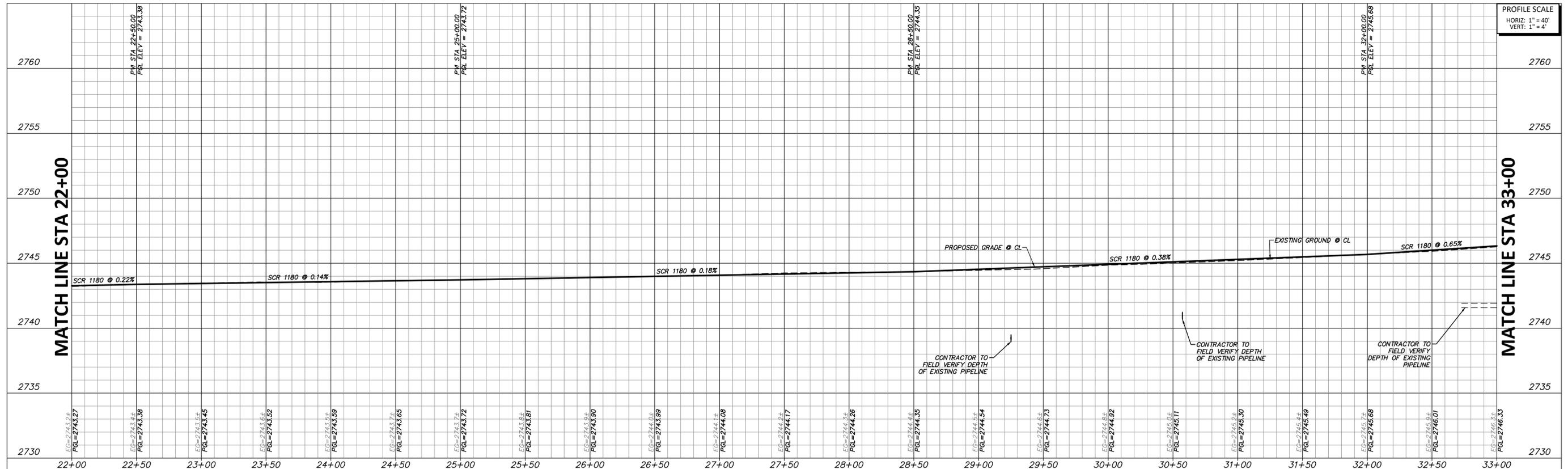


# SOUTH COUNTY ROAD 1180



MATCH LINE STA 22+00

MATCH LINE STA 33+00



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

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PLOTTER: AMIR/ADG/06/06  
PLOTTED AT: 9:12:52 AM

NO.	REVISION	BY	DATE	CHECKED

**MIDLAND COUNTY  
MIDLAND, TEXAS**

SCALE  
HORIZ  
1" = 40'  
VERT  
1" = 4'  
DATE  
MARCH  
2022

**DUNAWAY**  
4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705  
Tel: 432.699.4889  
[TX REG. F-1114]

STATE OF TEXAS  
132068  
JESSICA A. SCHUTTNER  
PROFESSIONAL ENGINEER  
3/8/2022

MIDLAND COUNTY PRECINCT 2  
SOUTH COUNTY ROAD 1180  
MIDLAND COUNTY, TEXAS  
**PLAN AND PROFILE  
22+00 TO 33+00**

DA PROJECT  
B006799.001  
SHEET  
**17**



**WARNING TO CONTRACTOR:**  
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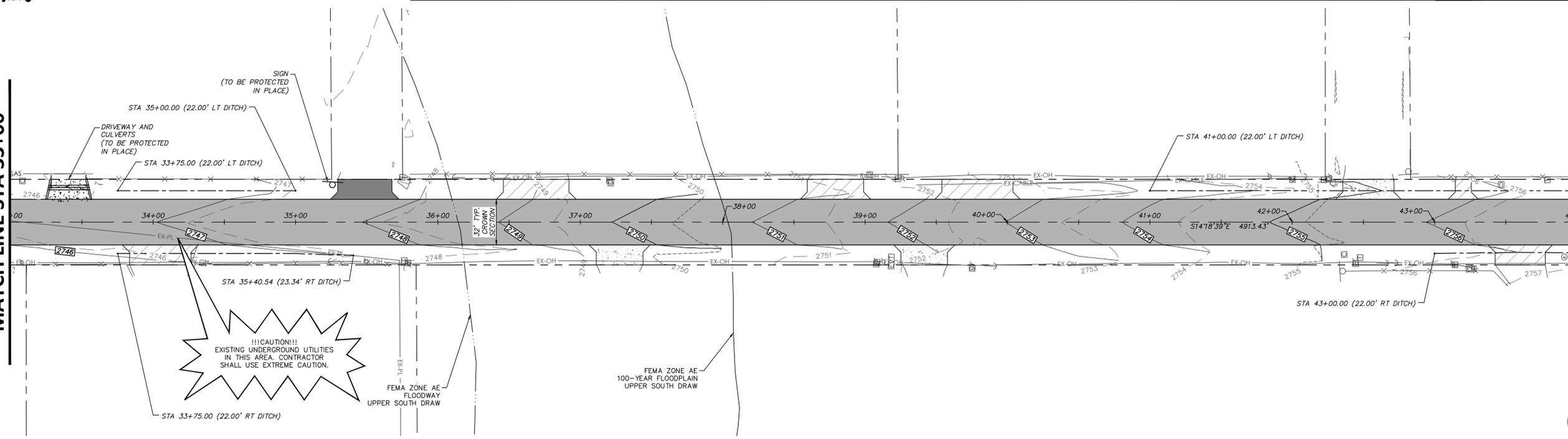
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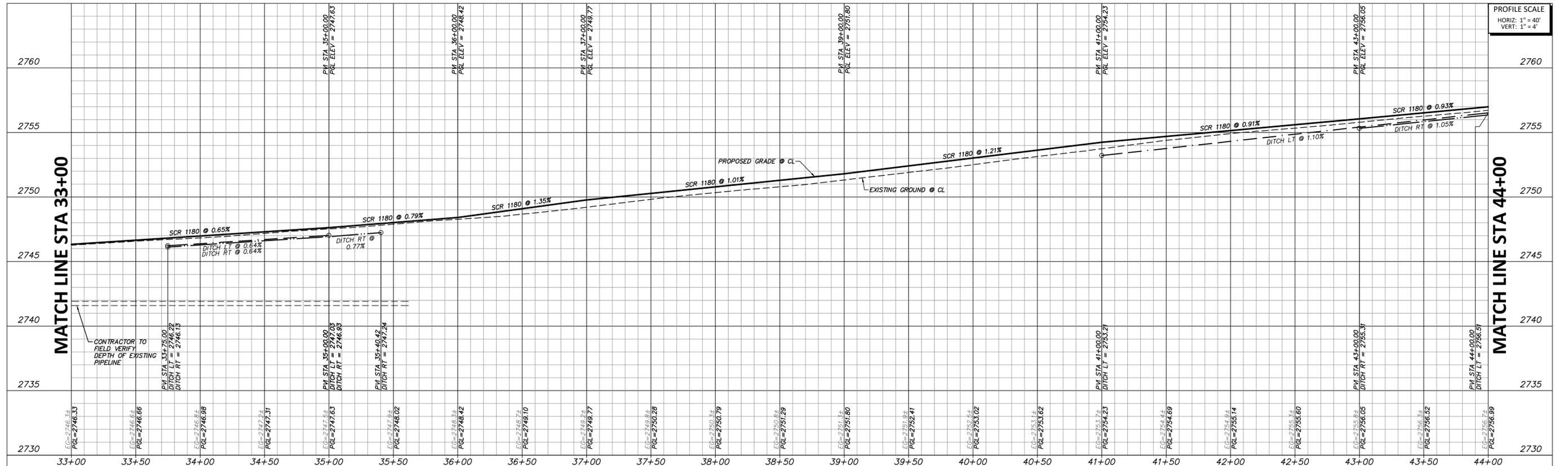
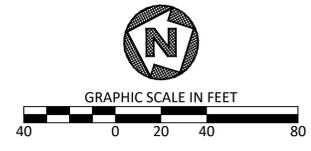
**BENCHMARK:**  
SEE GENERAL NOTES (SHEET 1) FOR BENCHMARKS.

MATCH LINE STA 33+00

MATCH LINE STA 44+00



# SOUTH COUNTY ROAD 1180



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FILENAME: 6067\_P&P.dwg  
PLOTTER: AMIRI ADAMS  
PLOT DATE: 3/8/2022

NO.	REVISION	BY	DATE	CHECKED

**MIDLAND COUNTY  
MIDLAND, TEXAS**

SCALE  
HORIZ  
1" = 40'  
VERT  
1" = 4'  
DATE  
MARCH  
2022

**DUNAWAY**  
4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705  
Tel: 432.699.4889  
[TX REG. F-1114]

STATE OF TEXAS  
132068  
JESSICA A. SCHUTTNER  
PROFESSIONAL ENGINEER  
3/8/2022

MIDLAND COUNTY PRECINCT 2  
SOUTH COUNTY ROAD 1180  
MIDLAND COUNTY, TEXAS  
**PLAN AND PROFILE  
33+00 TO 44+00**

DA PROJECT  
B006799.001  
SHEET  
**18**



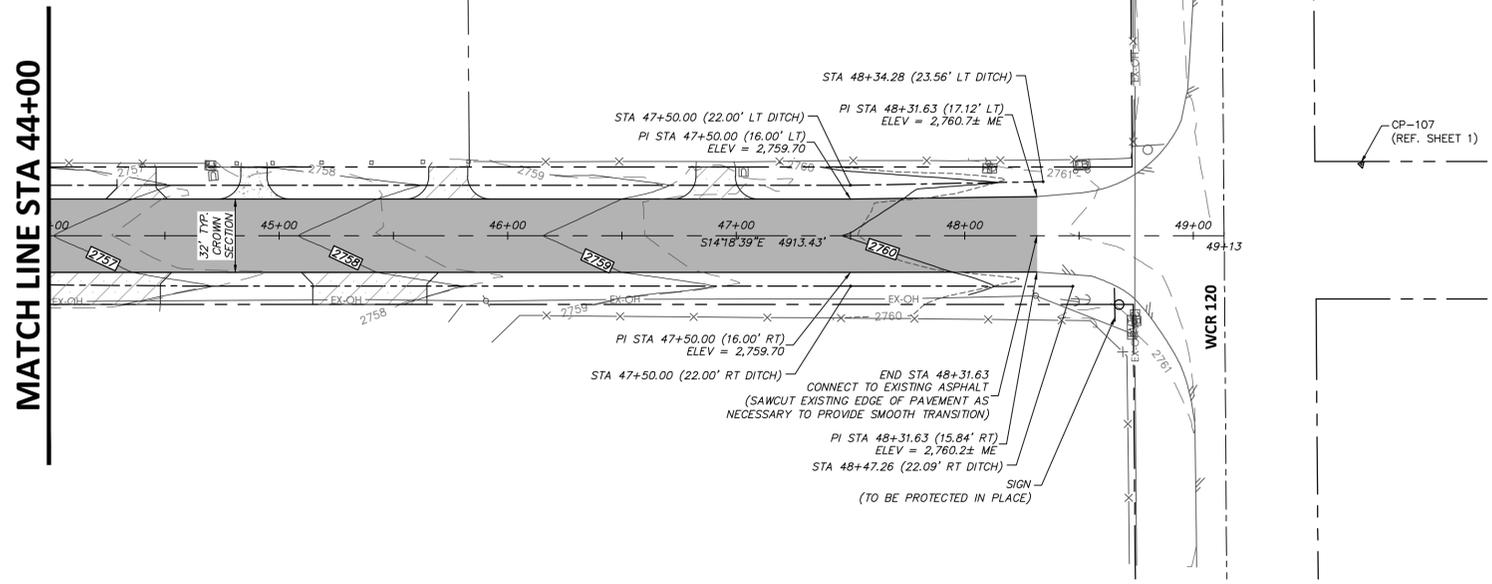
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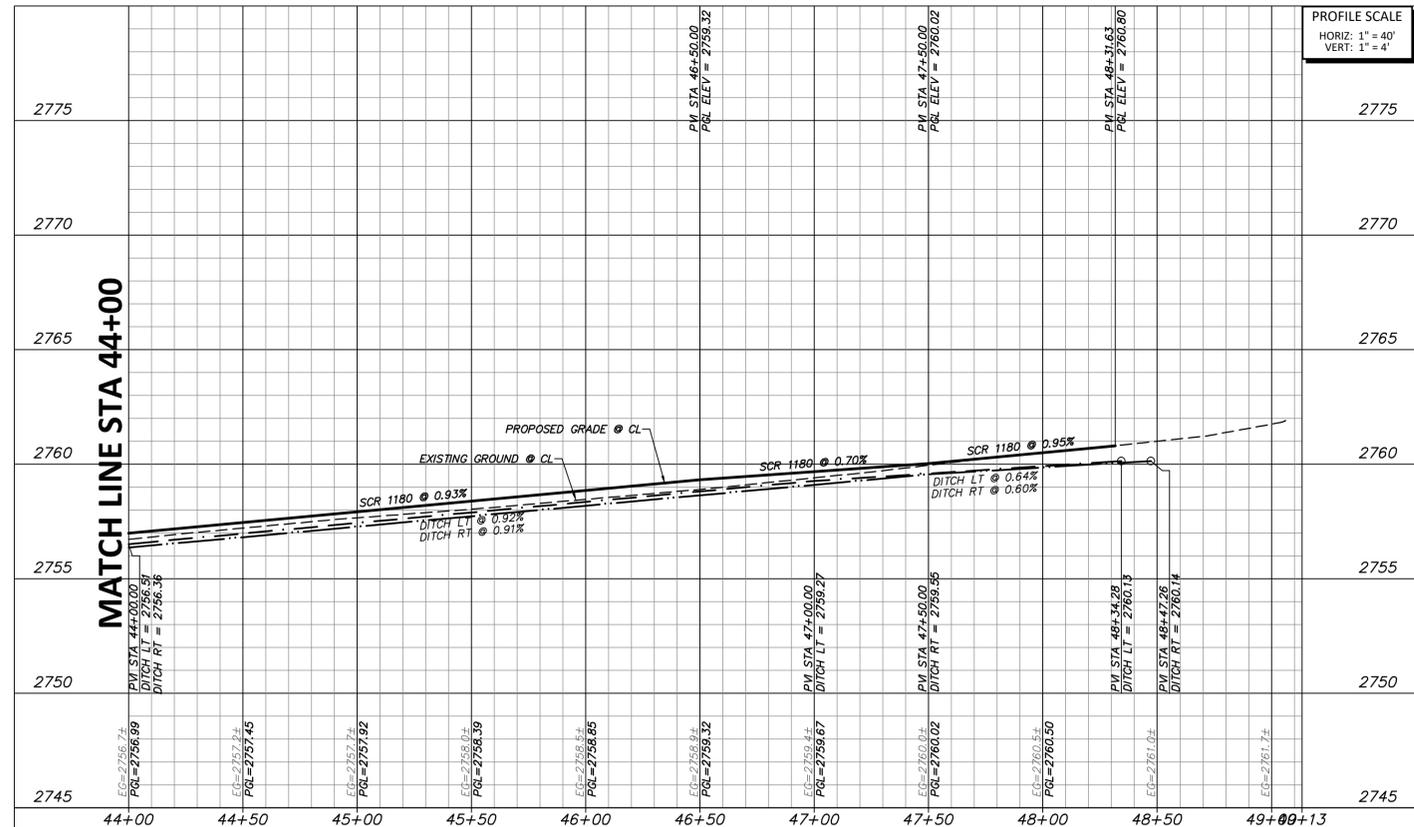
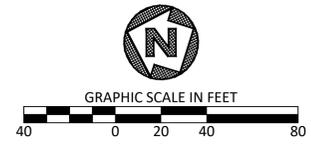
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**BENCHMARK:**  
SEE GENERAL NOTES (SHEET 1) FOR BENCHMARKS.



# SOUTH COUNTY ROAD 1180



FULL PATH: G:\Production\4000\006799\001\001\Drawings\Plan\Sheet\0010\_Plan.dwg  
 FILENAME: 0010\_Plan.dwg  
 PLOTTED BY: Allison Adams  
 PLOTTED AT: 3/13/2022

NO.	REVISION	BY	DATE	CHECKED
				AJA
				DESIGNED
				AJA
				DRAWN
				JAS
				CHECKED

**MIDLAND COUNTY  
MIDLAND, TEXAS**

SCALE  
HORIZ  
1" = 40'  
VERT  
1" = 4'  
DATE  
MARCH  
2022



MIDLAND COUNTY PRECINCT 2  
SOUTH COUNTY ROAD 1180  
MIDLAND COUNTY, TEXAS

**PLAN AND PROFILE  
44+00 TO END**

DA PROJECT  
B006799.001

SHEET  
**19**



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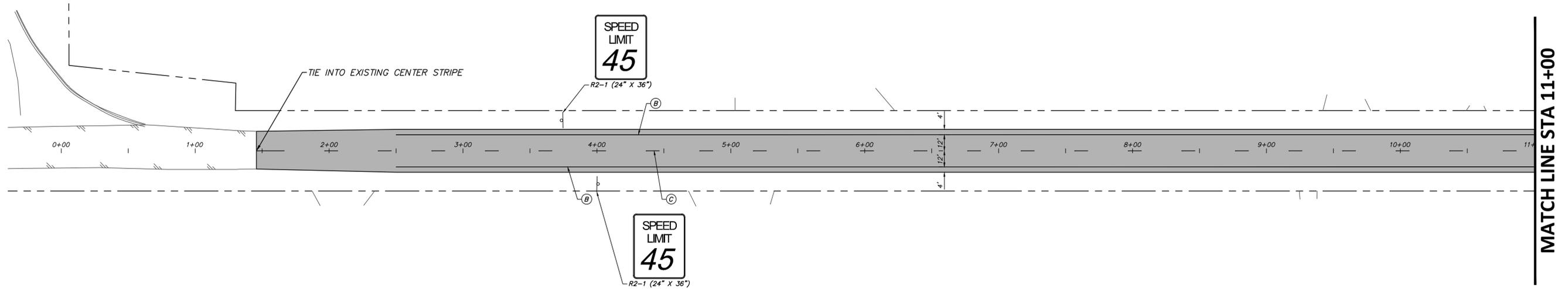
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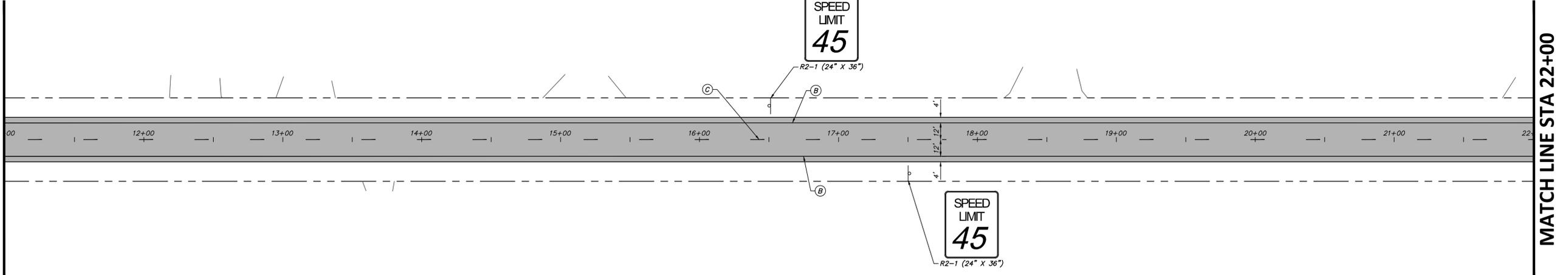
# SOUTH COUNTY ROAD 1180



MATCH LINE STA 11+00



MATCH LINE STA 11+00



MATCH LINE STA 22+00



**NOTES:**

- INSTALL PAVEMENT MARKINGS AND SIGNAGE PER TEXAS MUTCD AND TxDOT STANDARDS AND DETAILS.
- PAVEMENT MARKINGS TO FOLLOW ROADWAY ALIGNMENT STATIONING.
- PAVEMENT MARKING DIMENSIONS MEASURED FROM CENTER OF STRIPING.

**PAVEMENT MARKINGS**

- (A) REFL PAV MRK (W) 18" (SOLID)
- (B) REFL PAV MRK (W) 4" (SOLID)
- (C) REFL PAV MRK (Y) 4" (BRK)
- (D) REFL PAV MRK (Y) 4" DOUBLE (SOLID)
- INSTALL ROADSIDE SIGN

NO.	REVISION	BY	DATE	CHECKED

JAS	DESIGNED
AJA	DRAWN
JAS	CHECKED

**MIDLAND COUNTY  
MIDLAND, TEXAS**

SCALE	1" = 40'
HORIZ	N/A
VERT	N/A
DATE	MARCH 2022

**DUNAWAY**  
4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705  
Tel: 432.699.4889  
[TX REG. F-1114]



MIDLAND COUNTY PRECINCT 2  
SOUTH COUNTY ROAD 1180  
MIDLAND COUNTY, TEXAS  
**SIGNAGE AND PAVEMENT MARKINGS  
STA 0+00 TO 22+00**

DA PROJECT  
B006799.001  
SHEET  
**20**

FILE NAME: SIGNAGE & PAVEMENT MARKINGS.dwg  
PLOTTER: HP DesignJet 5000 Series  
PLOT DATE: 3/13/2022



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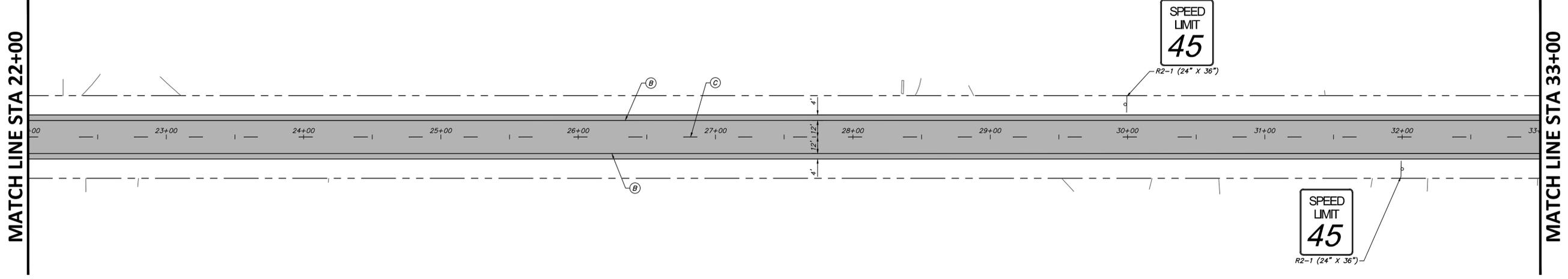
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SEE GENERAL NOTES (SHEET 1) FOR BENCHMARKS.

# SOUTH COUNTY ROAD 1180



MATCH LINE STA 33+00



SIGN  
(TO BE PROTECTED IN PLACE)

MATCH LINE STA 44+00

SPEED  
LIMIT  
**45**

R2-1 (24" X 36")

**PAVEMENT MARKINGS**

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- (C) REFL PAV MRK (Y) 4" (BRK)
- (D) REFL PAV MRK (Y) 4" DOUBLE (SOLID)
- INSTALL ROADSIDE SIGN

- NOTES:**
1. INSTALL PAVEMENT MARKINGS AND SIGNAGE PER TEXAS MUTCD AND TxDOT STANDARDS AND DETAILS.
  2. PAVEMENT MARKINGS TO FOLLOW ROADWAY ALIGNMENT STATIONING.
  3. PAVEMENT MARKING DIMENSIONS MEASURED FROM CENTER OF STRIPING.



NO.	REVISION	BY	DATE	CHECKED

**MIDLAND COUNTY  
MIDLAND, TEXAS**

SCALE  
HORIZ  
1" = 40'  
VERT  
N/A  
DATE  
MARCH  
2022

**DUNAWAY**  
4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705  
Tel: 432.699.4889  
[TX REG. F-1114]



MIDLAND COUNTY PRECINCT 2  
SOUTH COUNTY ROAD 1180  
MIDLAND COUNTY, TEXAS

**SIGNAGE AND PAVEMENT MARKINGS  
STA 22+00 TO 44+00**

DA PROJECT  
B006799.001

SHEET  
**21**

FILE PATH: G:\Production\4000\006799\001\001\Drawings\Plan\Sheet\SIGNAGE & PAVEMENT MARKINGS.dwg  
PLOTTER: HP DesignJet 5000 Series  
PLOT DATE: 3/13/2022



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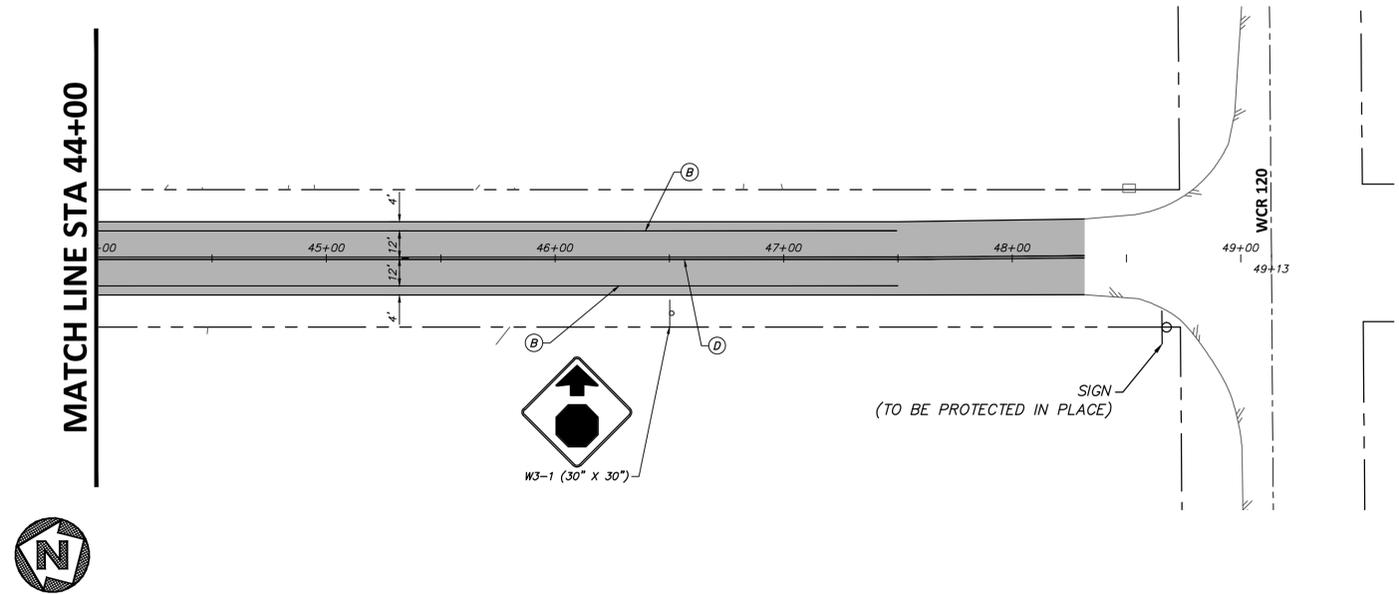
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# SOUTH COUNTY ROAD 1180



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- INSTALL ROADSIDE SIGN

NO.	REVISION	BY	DATE	CHECKED

DESIGNED	JAS
DRAWN	AJA
CHECKED	JAS

SCALE	1" = 40'
HORIZ	N/A
VERT	N/A
DATE	MARCH 2022

**DUNAWAY**  
 4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705  
 Tel: 432.699.4889  
 [TX REG. F-1114]



MIDLAND COUNTY PRECINCT 2	DA PROJECT B006799.001
SOUTH COUNTY ROAD 1180 MIDLAND COUNTY, TEXAS	SHEET
<b>SIGNAGE AND PAVEMENT MARKINGS STA 44+00 TO END</b>	<b>22</b>

FULL PATH: G:\Production\4000\006799\001\01\Drawings\Plan\Sheet\SIGNAGE & PAVEMENT MARKINGS.dwg  
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