FED.RD. DIV.NO.	FEDERAL PROJECT NO.		SHEET NO.
6	F 2B24(226)		1
STATE	STATE DIST.	COUNTY	
TEXAS	AMA	POTTER	
CONT.	SECT.	JOB	HIGHWAY NO.
0904	00	223	VARIOUS

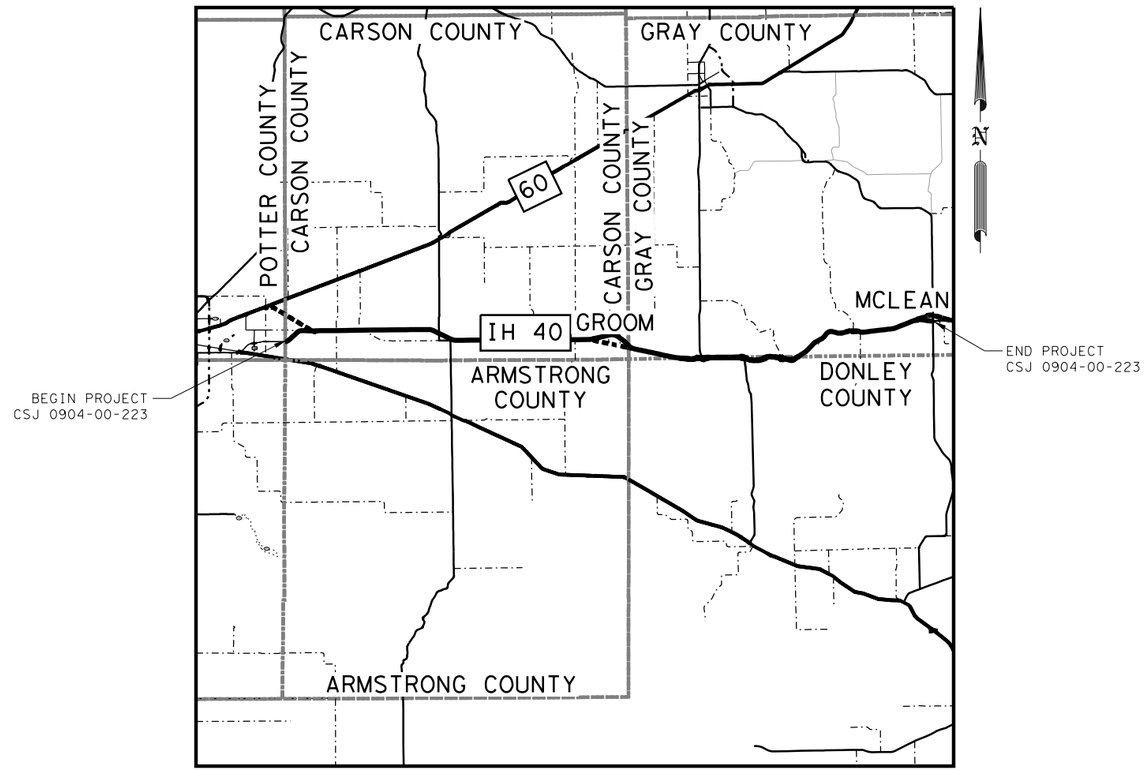
STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED
STATE HIGHWAY IMPROVEMENT
FEDERAL PROJECT: F 2B24(226)
HIGHWAY - VARIOUS
COUNTY - POTTER
CONTROL: 0904-00-223

FOR THE CONSTRUCTION OF: INSTALL/REPLACE LARGE SIGNS

PROJECT LIMITS FROM: POTTER COUNTY LINE
TO: WHEELER COUNTY LINE
TOTAL LENGTH = 335,285 FT = 63.5 MI

INDEX OF SHEETS



EXCEPTIONS:
NONE

RAILROADS:
NONE

EQUATIONS:
NONE

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION, NOVEMBER 1, 2014 AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS, SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS FOR ALL FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, OCTOBER 23, 2023).

FINAL PLANS

LETTING DATE: _____

DATE CONTRACTOR BEGAN WORK: _____

DATE WORK WAS COMPLETED & ACCEPTED: _____

FINAL CONTRACT COST: $ _____

CONTRACTOR : _____

AREA ENGINEER : _____ DATE : _____

2024 **Texas Department of Transportation**

RECOMMENDED FOR LETTING: DATE: 4/1/2024
DocuSigned by: Bernardo Fuentes, PE 25B59152F691499...
AREA ENGINEER

DATE: 4/3/2024
DocuSigned by: Kit Black 9B5A6EA6AE8B46E...
DISTRICT DIRECTOR OF TRANSPORTATION PLANNING AND DEVELOPMENT

APPROVED FOR LETTING: DATE: 4/5/2024
DocuSigned by: Blair Johnson 8B80E3AEB2BC43A...
DISTRICT ENGINEER

DATE: 9/20/2023 7:03:50 PM
FILE: Z:\Transportation\TxDOT_PS&E\STATEWIDE 36-9\DPS10\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\01 GENERAL\AMA TITLE SHEET 03.dgn

100% SUBMITTAL

INDEX OF SHEETS

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED BY * HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT

SIGNATURE OF REGISTRANT ,P.E. 4/16/2024 DATE

STATE OF TEXAS
CHARLES M. SHINE
62999
LICENSED
PROFESSIONAL ENGINEER

4/16/2024

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

INDEX OF SHEETS

SHEET 1 OF 1

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	2
CONTROL	SECTION	JOB	
0904	00	223	

4/16/2024 3:24:27 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9\DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\01_GENERAL\AMA03_INDEX_01.dgn

GENERAL NOTES

General

Contractor questions on this project are to be addressed to the following individual(s):

TO:	Traffic Engineer	Bernardo.Ferrel@txdot.gov
CC:	Transportation Specialist	Kevin.Wilcox@txdot.gov
	Director of Construction	Kenneth.Petr@txdot.gov
	Construction Manager	Darrell.Caldwell@txdot.gov

Contractor questions will be accepted through email, phone, or in person by the above individuals.

For Q&A's on Proposals navigate to:

https://tableau.txdot.gov/views/ProjectInformationDashboard/NoticetoContractors

Use the dashboard to navigate to the project you are interested in by scrolling or filtering the dashboard using the controls on the left. Hover over the blue hyperlink of the project you want to view the Q&A for and click on the link in the window that pops up.

All relevant project documentation including CTD and cross sections (if applicable) will be posted to TxDOT District's FTP website.

https://ftp.dot.state.tx.us/pub/txdot-info/Pre-Letting%20Responses/

There are approximately 63 "reference markers" within the project limits. If a marker needs to be moved for any reason during construction operations, the Contractor is to remove it, install it in a temporary location and then reinstall it in its correct permanent location. Both the temporary and permanent locations are to be on a line that is perpendicular to the original "station" along the roadway. The temporary location is to be at or near the right-of-way. The permanent location is to be directed by the Engineer.

If Contractor damages any sprinkler heads, risers or water lines that are not to be relocated, he or she is required to replace or repair all damage at his or her own expense and to the Engineer's satisfaction.

If portions of the right-of-way is used to store materials, equipment, and other uses with the approval of the Engineer, materials, equipment, etc., must either be located outside the *30* feet traffic safety clearance zone or be adequately protected.

Do not store any equipment or material under any bridge.

Item 6 Control of Materials

To comply with the latest provisions of Build America, Buy America Act (BABA Act) of the Bipartisan Infrastructure Law, the contractor must submit an original of the TxDOT Construction Material Buy America Certification Form for all items classified as construction materials. This form is not required for materials classified as a manufactured product.

Refer to the Buy America Material Classification Sheet for clarification on material categorization.

The Buy America Material Classification Sheet is located at the below link.

https://www.txdot.gov/business/resources/materials/buy-america-material-classification-sheet.html for clarification on material categorization.

Item 7 Legal Relations and Responsibilities

No significant traffic generator events identified.

The total area disturbed for this project is approximately 0.5 acre. The disturbed area in this project, all project locations in the Contract, and the Contractor Project Specific Locations (PSLs), within 1 mile of the project limits, for the Contract will further establish the authorization requirements for storm water discharges. The Department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction activities shown on the plans. The Contractor is to obtain required authorization from the TCEQ for Contractor PSLs for construction support activities on or off the ROW. When the total area disturbed in the Contract and PSLs within 1 mile of the project limits exceeds 5 acres, provide a copy of the Contractor NOI for PSLs on the ROW to the Engineer and to the local government that operates a separate storm sewer system.

Item 8 Prosecution and Progress

The 90 days delay special provision is intended to provide lead time to acquire required construction materials for traffic signs.

Item 416 Drilled Shaft Foundations

A stabilization method is to be used to prevent caving of the material and is to be submitted as part of the Contractor's Safety Plan.

Item 421 Hydraulic Cement Concrete

The sand equivalent value of fine aggregate is not to be less than 85 when subjected to test method tex-203-F.

The Engineer will perform all job control testing for acceptance.

The Engineer will provide strength-testing equipment when required in accordance with the Contract-controlling tests.

Furnish and maintain the following testing equipment:

- ♦ Test Molds

All cast-in-place concrete except for drilled shafts are to be air-entrained. Pre-cast and drilled shaft concrete may be air-entrained at the Contractor's option.

Item 502 Barricades, Signs, and Traffic Handling

The Contractor Force Account "Safety Contingency" that has been established for this project is intended to be utilized for work zone enhancements, to improve the effectiveness of the Traffic Control Plan, that could not be foreseen in the project planning and design stage. These enhancements will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent traffic management reviews on the project. The Engineer may choose to use existing bid items if it does not slow the implementation of enhancement.

Item 506 Temporary Erosion, Sedimentation, and Environmental Controls

Erosion control devices are to be installed as needed in coordination with the work progress, or as directed by the Engineer.

Use wooden stakes to secure erosion control logs. Do not use rebar stakes.

Item 644 Small Roadside Sign Supports and Assemblies

	Square Feet	Minimum Thickness
ALUMINUM SIGN BLANKS THICKNESS	Less than 7.5	0.100
	7.5 or Greater	0.125

All slip base signs will have a triangular slip base with a 2-bolt clamp to prevent rotation of signpost. Set screw type slip base will not be allowed.

A 7" x 1/2" diameter galvanized rod or #4 rebar is to be installed in the sign stub as shown on SMD(SLIP-1)-08 to prevent rotation of the sign stub in the concrete footing.

The exact locations of the large and small roadside signs are to be as designated by the Engineer.

The existing riprap aprons are to be removed and disposed of as approved by the Engineer. This work is not to be paid for directly but will be considered subsidiary to the removal of foundations under this item.

Probe before drilling for foundations to determine the location of all utilities and structures. This work will not be paid for directly but will be considered subsidiary to bid items involved.

Details for standard signs not shown on the signing standards of the signing detail plan sheets are to be in conformance with the department's "Standard Highway Sign Designs for Texas" Manual, Latest Edition.

Install a wrap of retroreflective sheeting conforming to DMS-8300 on all posts for small road sign assemblies. Sign post wraps will not be paid for directly, but are considered subsidiary to Item 644.

Install red sheeting on the posts containing the following signs:
Stop, Yield, Wrong Way & Do Not Enter
Install yellow sheeting on all other small sign posts.

Install all retroreflective wraps at a height of 4 ft. from bottom of the wrap to the edge of the travel lane surface. All retroreflective wraps will cover the full circumference of the sign post for a vertical width of 12 inches.

Replacing vertical clearance signs will require the contractor to measure between the roadway and the overhead obstruction. Minimum vertical clearance measurements apply to the total travel way, which includes the travel lanes and any usable paved shoulder. A sufficient number of measurements should be taken across the width and depth of the obstruction to ensure that the minimum clearance is determined. Measurements should be rounded down to the lowest whole inch. The signed clearance (the clearance shown on the sign) should be three inches less than the actual measured clearance. Provide the engineer a copy of the measurements and the proposed signed clearances for approval prior to ordering signs.

The location of ground mounted vertical clearance signs (W12-2a) placed at the structure will be as directed by the engineer.

Item 6001 Portable Changeable Message Sign

Supply 4 Portable Changeable Message Signs (Type II – Lamp Matrix) for this project.
No payment will be made for removing and replacing damaged PCMS.

If the Contractor chooses to have more than one lane closure set-up at a time, provide additional PCMS in accordance with TCP at no additional charge to the department.

Item 6185 Truck Mounted Attenuator (TMA) and Trailer Attenuator (TA)

In addition to the shadow vehicles with truck mounted attenuator (TMA) that are specified as being required on the traffic control plan for this project, provide 0 additional shadow vehicle(s) with TMA for TCP (1-1)- 18, (5-1)-18, (6-1)-12, (6-2)-12, (6-3)-12, (6-4)-12, (6-5)-12 and (6-8)-14 as detailed on the General Notes of this standard sheets.

Therefore, 2 total shadow vehicles with TMA will be required for this type of work. The Contractor will be responsible for determining if one or more of these operations will be ongoing at the same time to determine the total number of TMAs needed for the project.

Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0904-00-223 **DISTRICT** Amarillo **COUNTY** Potter
HIGHWAY Various

						TOTAL EST.	TOTAL FINAL
		CONTROL SECTION JOB		**0904-00-223**			
		PROJECT ID		**A00191147**			
		COUNTY		**Potter**			
		HIGHWAY		**Various**			
ALT	**BID CODE**	**DESCRIPTION**	**UNIT**	EST.	FINAL		
	416-6016	DRILL SHAFT (SIGN MTS) (12 IN)	LF	378.000		378.000	
	416-6018	DRILL SHAFT (SIGN MTS) (24 IN)	LF	1,380.000		1,380.000	
	500-6001	MOBILIZATION	LS	1.000		1.000	
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	5.000		5.000	
	636-6001	ALUMINUM SIGNS (TY A)	SF	29.750		29.750	
	636-6002	ALUMINUM SIGNS (TY G)	SF	14,074.750		14,074.750	
	644-6004	IN SM RD SN SUP&AM TY10BWG(1)SA(T)	EA	54.000		54.000	
	644-6077	REMOVE BRDG MNT CLEARANCE SIGN ASSM	EA	50.000		50.000	
	647-6001	INSTALL LRSS (STRUCT STEEL)	LB	83,359.400		83,359.400	
	647-6003	REMOVE LRSA	EA	146.000		146.000	
	6001-6002	PORTABLE CHANGEABLE MESSAGE SIGN	EA	4.000		4.000	
	6185-6002	TMA (STATIONARY)	DAY	80.000		80.000	
	18	EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS	1.000		1.000	
		SAFETY CONTINGENCY: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS	1.000		1.000	

100%
SUBMITTAL

SUMMARY OF SIGNING ITEMS								
LOCATION	636 6001	636 6002	644 6004	644 6077	647 6001	416 6016	416 6018	647 6003
	ALUMINUM SIGNS (TY A)	ALUMINUM SIGNS (TY G)	IN SM RD SN SUP&AM TY10BWG(1)SA(T)	* REMOVE BRDG MNT CLEARANCE SIGN ASSM	INSTALL LRSS (STRUCT STEEL)	DRILL SHAFT (SIGN MTS) (12 IN)	DRILL SHAFT (SIGN MTS) (24 IN)	REMOVE LRSA
	SF	SF	EA	EA	LB	LF	LF	EA
Signs Plan Layout Sheet 1		1986.75	8	8	11970.8	56	221	28
Signs Plan Layout Sheet 2		1682.25	18	17	8716.1	21	157	12
Signs Plan Layout Sheet 3		1358.75	6	5	8068.6	28	139	15
Signs Plan Layout Sheet 4		2680.50	2	1	16670.0	84	255	30
Signs Plan Layout Sheet 5	7.75	2303.75	6	5	14227.4	98	208	26
Signs Plan Layout Sheet 6	22.00	1846.50	6	6	11349.3	42	196	18
Signs Plan Layout Sheet 7		2215.75	8	8	12357.2	49	204	17
PROJECT TOTALS	**29.75**	**14074.25**	**54**	**50**	**83359.4**	**378**	**1380**	**146**

*REMOVAL OF THE BRIDGE CLEARANCE SIGN PANEL IS SUBSIDIARY TO BID ITEM 644-6077 REMOVE BRIDGE MOUNT CLEARANCE SIGN ASSEMBLY.

FILL MOUNTING HOLES WITH EPOXY AFTER SIGN AND ASSEMBLY REMOVAL, THIS IS SUBSIDIARY TO ITEM 644 6077.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

SUMMARY OF QUANTITIES

SHEET 1 OF 1

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	5
CONTROL	SECTION	JOB	
0904	00	223	

11/1/2023 10:48:56 AM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDPS101\WA4-TxDOT Amarillo \PROJECTS \PACKAGE 3\CAD D\DGN\01_GENERAL\AMA03_SGNSUM_01.dgn

100%
SUBMITTAL

TRAFFIC CONTROL SUMMARY AND NOTES:

PHASE 1A:
INSTALL TRAFFIC CONTROL DEVICES ACCORDING TO TCP (1-1), TCP (6-1) TO TCP (6-5) STANDARDS.

- CLOSE THE OUTSIDE SHOULDER USING TCP STANDARD TCP (5-1) TO INSTALL ALL ROADSIDE SIGNS IN OUTSIDE MAINLANE SHOULDER.
- CLOSE ONE MAINLANE ONLY TO INSTALL ALL LARGE SIGNS ON BRIDGE STRUCTURES.
- CLOSE ONE MAINLANE ONLY USING STANDARD TCP (6-2) TO INSTALL ALL LARGE SIGNS ON OSB STRUCTURES.
- CLOSE ONE MAINLANE ONLY USING TCP STANDARD TCP (6-1)-12 TO INSTALL ALL LARGE SIGNS ON OSB STRUCTURES.
- WILL LIMIT THE WORK ZONE TO NO MORE THAN FIVE (5) MILES AT A TIME.

REMOVE AND INSTALL REPLACEMENT SIGNS AS SHOWN IN PLANS.

PHASE 1B:
MOVE WORK ZONE AND TRAFFIC CONTROL DEVICES TO NEXT LOCATION AND RESUME TRAFFIC CONTROL OPERATIONS (SHOWN IN PHASE1A)
REMOVE AND INSTALL REPLACEMENT SIGNS.

FINAL CLEAN UP
CLEANUP DEBRIS AND REMOVE OLD SIGNS PRIOR TO COMMENCING NEXT CONSTRUCTION PHASE.

REMOVE AND REINSTALL TRAFFIC CONTROL DEVICES.

STATE OF TEXAS
CHARLES M. SHINE
62999
LICENSED
PROFESSIONAL ENGINEER
9/20/2023
Charles M Shine P.E.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

TCP NARRATIVE

SHEET 1 OF 1

			HIGHWAY NO.
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	AMARILLO	POTTER	6
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:03:52 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\02_TRAF_CONT\AMA03_TCPNAR_01.dgn

DATE: 9/20/2023 7:03:52 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\02_TRAF_CONT\STD\BC-21.dgn

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 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.

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).

THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT http://www.txdot.gov
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)
TRAFFIC ENGINEERING STANDARD SHEETS

Texas Department of Transportation

Traffic Safety Division Standard

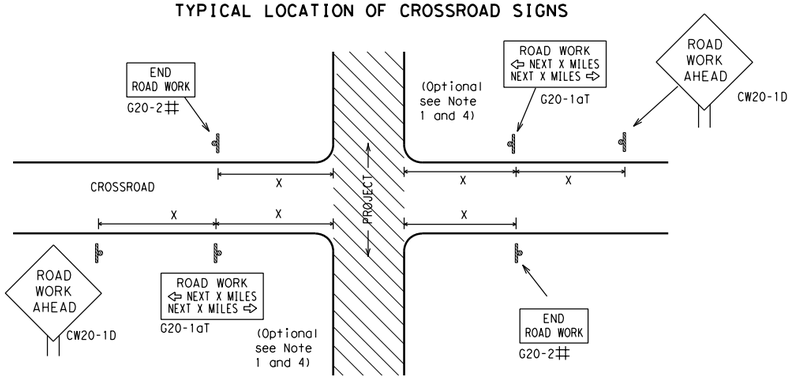
BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS

BC(1)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS 4-03 7-13	0904	00	223	VARIOUS
9-07 8-14	DIST	COUNTY		SHEET NO.
5-10 5-21	AMA	POTTER		7

DATE: 9/20/2023 7:03:52 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\02_TRAF_CONT\STD\bc-21.dgn

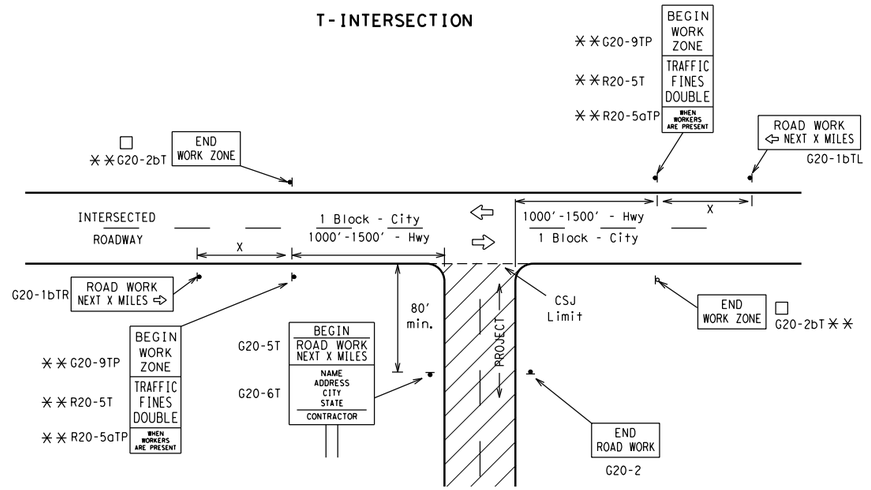
TYPICAL LOCATION OF CROSSROAD SIGNS



May be mounted on back of "ROAD WORK AHEAD"(CW20-1D) sign with approval of Engineer. (See note 2 below)

1. The typical minimum signing on a crossroad approach should be a "ROAD WORK AHEAD" (CW20-1D)sign and a (G20-2) "END ROAD WORK" sign, unless noted otherwise in plans.
2. The Engineer may use the reduced size 36" x 36" ROAD WORK AHEAD (CW20-1D) sign mounted back to back with the reduced size 36" x 18" "END ROAD WORK"(G20-2) sign on low volume crossroads (see Note 4 under "Typical Construction Warning Sign Size and Spacing"). See the "Standard Highway Sign Designs for Texas" manual for sign details. The Engineer may omit the advance warning signs on low volume crossroads. The Engineer will determine whether a road is low volume as per TMUTCD Part 5. This information shall be shown in the plans.
3. Based on existing field conditions, the Engineer/Inspector may require additional signs such as FLAGGER AHEAD, LOOSE GRAVEL, or other appropriate signs. When additional signs are required, these signs will be considered part of the minimum requirements. The Engineer/Inspector will determine the proper location and spacing of any sign not shown on the BC sheets, Traffic Control Plan sheets or the Work Zone Standard Sheets.
4. The "ROAD WORK NEXT X MILES"(G20-1aT)sign shall be required at high volume crossroads to advise motorists of the length of construction in either direction from the intersection. The Engineer will determine whether a roadway is considered high volume.
5. Additional traffic control devices may be shown elsewhere in the plans for higher volume crossroads.
6. When work occurs in the intersection area, appropriate traffic control devices, as shown elsewhere in the plans or as determined by the Engineer/Inspector, shall be in place.

T-INTERSECTION



CSJ LIMITS AT T-INTERSECTION

1. The Engineer will determine the types and location of any additional traffic control devices, such as a flagger and accompanying signs, or other signs, that should be used when work is being performed at or near an intersection.
2. If construction closes the road at a T-intersection, the Contractor shall place the "CONTRACTOR NAME"(G20-6T) sign behind the Type 3 Barricades for the road closure (see BC(10) also). The "ROAD WORK NEXT X MILES" left arrow(G20-1bTL) and "ROAD WORK NEXT X MILES" right arrow (G20-1bTR)" signs shall be replaced by the detour signing called for in the plans.

TYPICAL CONSTRUCTION WARNING SIGN SIZE AND SPACING[1,5,6]

SIZE

Sign Number or Series	Conventional Road	Expressway/ Freeway
CW20[4] CW21 CW22 CW23 CW25	48" x 48"	48" x 48"
CW1, CW2, CW7, CW8, CW9, CW11, CW14	36" x 36"	48" x 48"
CW3, CW4, CW5, CW6, CW8-3, CW10, CW12	48" x 48"	48" x 48"

SPACING

Posted Speed	Sign △ Spacing "X"
MPH	Feet (Apprx.)
30	120
35	160
40	240
45	320
50	400
55	500[2]
60	600[2]
65	700[2]
70	800[2]
75	900[2]
80	1000[2]
✳	✳[3]

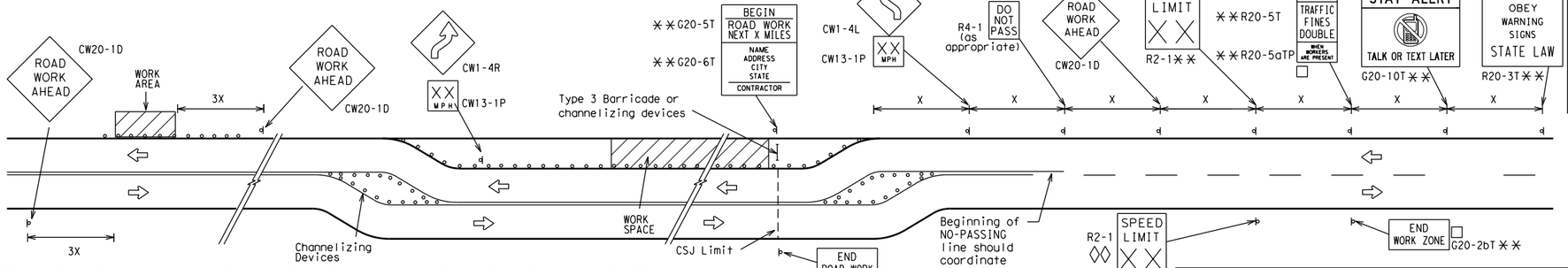
✳ For typical sign spacings on divided highways, expressways and freeways, see Part 6 of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) typical application diagrams or TCP Standard Sheets.

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

GENERAL NOTES

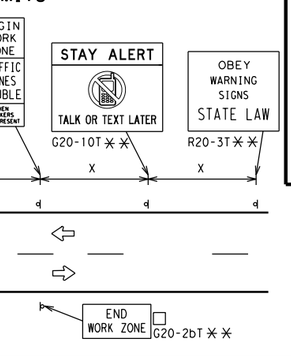
1. Special or larger size signs may be used as necessary.
2. Distance between signs should be increased as required to have 1500 feet advance warning.
3. Distance between signs should be increased as required to have 1/2 mile or more advance warning.
4. 36" x 36" "ROAD WORK AHEAD" (CW20-1D)signs may be used on low volume crossroads at the discretion of the Engineer as per TMUTCD Part 5. See Note 2 under "Typical Location of Crossroad Signs".
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.

WORK AREAS IN MULTIPLE LOCATIONS WITHIN CSJ LIMITS

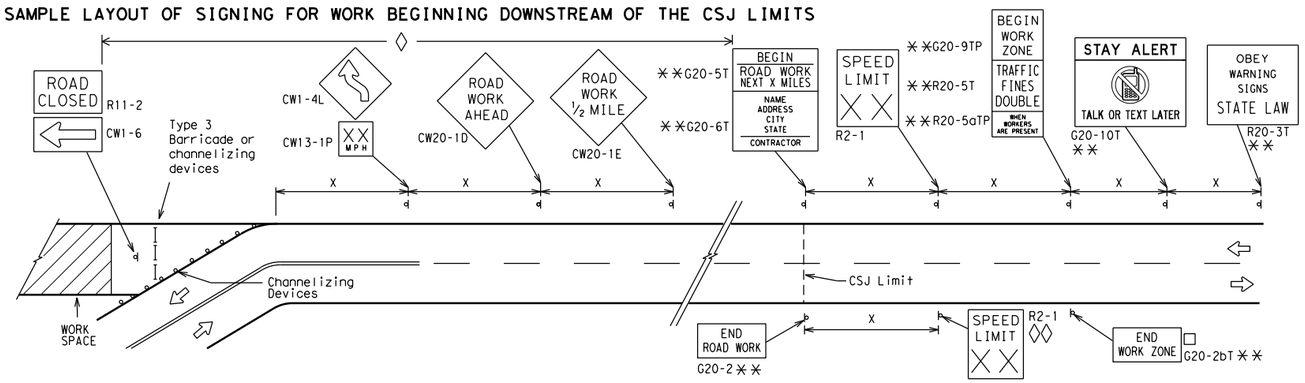


When extended distances occur between minimal work spaces, the Engineer/Inspector should ensure additional "ROAD WORK AHEAD"(CW20-1D)signs are placed in advance of these work areas to remind drivers they are still within the project limits. See the applicable TCP sheets for exact location and spacing of signs and channelizing devices.

SAMPLE LAYOUT OF SIGNING FOR WORK BEGINNING AT THE CSJ LIMITS



SAMPLE LAYOUT OF SIGNING FOR WORK BEGINNING DOWNSTREAM OF THE CSJ LIMITS



NOTES

The Contractor shall determine the appropriate distance to be placed on the G20-1 series signs and "BEGIN ROAD WORK NEXT X MILES"(G20-5T)sign for each specific project. This distance shall replace the "X" and shall be rounded to the nearest whole mile with the approval of the Engineer. No decimals shall be used.

□ The "BEGIN WORK ZONE"(G20-9TP) and "END WORK ZONE" (G20-2bT) shall be used as shown on the sample layout when advance signs are required outside the CSJ Limits. They inform the motorist of entering or leaving a part of the work zone lying outside the CSJ Limits where traffic fines may double if workers are present.

✳✳ CSJ limit signing is required for highway construction and maintenance work, with the exception of mobile operations.

◊ Area for placement of "ROAD WORK AHEAD" (CW20-1D)sign and other signs or devices as called for on the Traffic Control Plan.

◊◊ Contractor will install a regulatory speed limit sign at the end of the work zone.

LEGEND	
⊢⊣	Type 3 Barricade
○ ○ ○	Channelizing Devices
▬	Sign
X	See Typical Construction Warning Sign Size and Spacing chart or the TMUTCD for sign spacing requirements.

Texas Department of Transportation

Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION PROJECT LIMIT

BC(2)-21

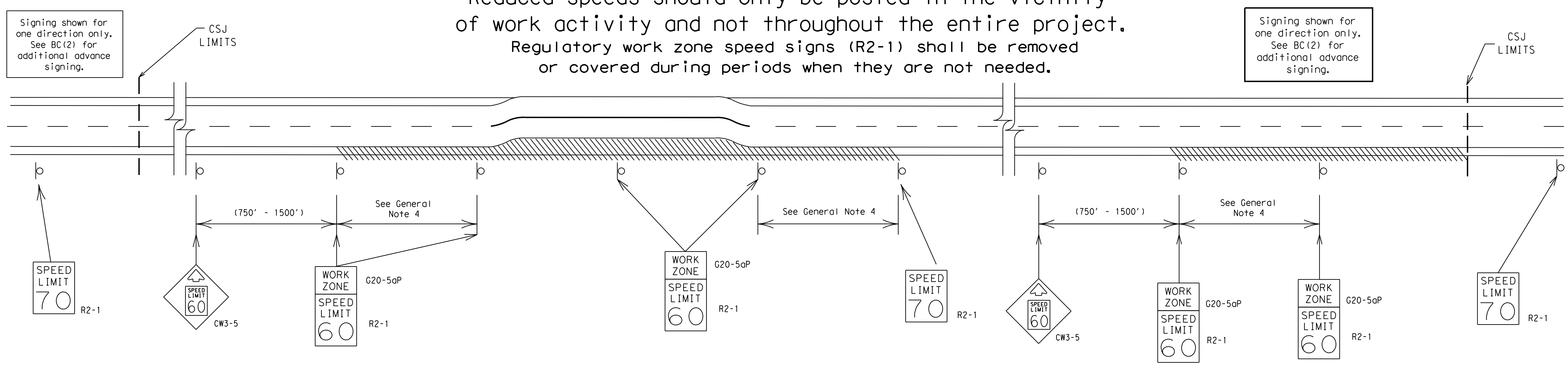
FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS	0904	00	223	VARIOUS
9-07 8-14	DIST	COUNTY		SHEET NO.
7-13 5-21	AMA	POTTER		8

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
f) other conditions readily apparent to the driver

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

SHORT TERM WORK ZONE SPEED LIMITS

This type of work zone speed limit may be included on the design of the traffic control plans when 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)).

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:
   - 40 mph and greater 0.2 to 2 miles
   - 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" (G20-5aP) 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, laying signs over or down will not be allowed, unless as 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 (drone) 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, work zone conditions and factors impacting allowable regulatory construction speed zone reduction see TxDOT form #1204 in the TxDOT e-form system.

DATE: 9/20/2023 7:03:52 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\02_TRAF_CONT\STD\bc-21.dgn

Texas Department of Transportation — Traffic Safety Division Standard

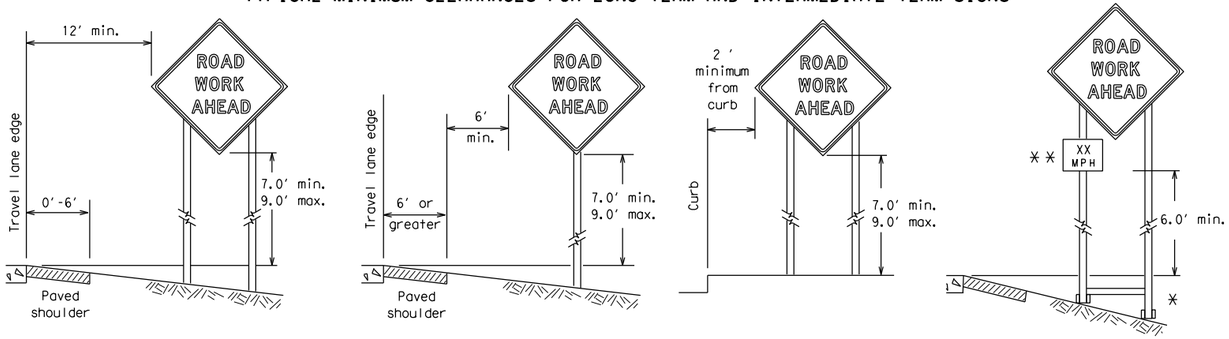
BARRICADE AND CONSTRUCTION WORK ZONE SPEED LIMIT

BC(3)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS 9-07 8-14 7-13 5-21	0904	00	223	VARIOUS
	DIST		COUNTY	SHEET NO.
	AMA		POTTER	9

DATE: 9/20/2023 7:03:53 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP510\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\02_TRAF_CONT\STD\bc-21.dgn

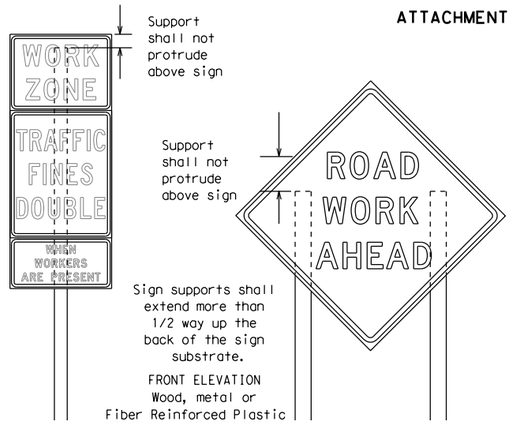
TYPICAL MINIMUM CLEARANCES FOR LONG TERM AND INTERMEDIATE TERM SIGNS

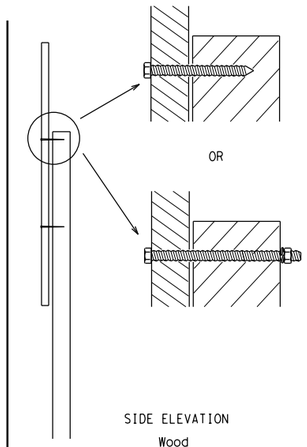


⁎ When placing skid supports on unlevel ground, the leg post lengths must be adjusted so the sign appears straight and plumb. Objects shall NOT be placed under skids as a means of leveling.

⁎⁎ When plaques are placed on dual-leg supports, they should be attached to the upright nearest the travel lane. Supplemental plaques (advisory or distance) should not cover the surface of the parent sign.

ATTACHMENT FOR SIGN SUPPORTS





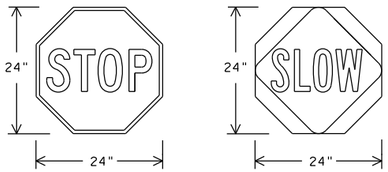
Attachment to wooden supports will be by bolts and nuts or screws. Use TxDOT's or manufacturer's recommended procedures for attaching sign substrates to other types of sign supports

Nails shall NOT be allowed. Each sign shall be attached directly to the sign support. Multiple signs shall not be joined or spliced by any means. Wood supports shall not be extended or repaired by splicing or other means.

Splicing embedded perforated square metal tubing in order to extend post height will only be allowed when the splice is made using four bolts, two above and two below the spice point. Splice must be located entirely behind the sign substrate, not near the base of the support. Splice insert lengths should be at least 5 times nominal post size, centered on the splice and of at least the same gauge material.

STOP/SLOW PADDLES

1. STOP/SLOW paddles are the primary method to control traffic by flaggers. The STOP/SLOW paddle size should be 24" x 24".
2. STOP/SLOW paddles shall be retroreflectorized when used at night.
3. STOP/SLOW paddles may be attached to a staff with a minimum length of 6′ to the bottom of the sign.
4. Any lights incorporated into the STOP or SLOW paddle faces shall only be as specifically described in Section 6E.03 Hand Signaling Devices in the TMUTCD.



SHEETING REQUIREMENTS (WHEN USED AT NIGHT)		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	RED	TYPE B OR C SHEETING
BACKGROUND	ORANGE	TYPE B_{FL} OR C_{FL} SHEETING
LEGEND & BORDER	WHITE	TYPE B OR C SHEETING
LEGEND & BORDER	BLACK	ACRYLIC NON-REFLECTIVE FILM

CONTRACTOR REQUIREMENTS FOR MAINTAINING PERMANENT SIGNS WITHIN THE PROJECT LIMITS

1. Permanent signs are used to give notice of traffic laws or regulations, call attention to conditions that are potentially hazardous to traffic operations, show route designations, destinations, directions, distances, services, points of interest, and other geographical, recreational, specific service (LOGO), or cultural information. Drivers proceeding through a work zone need the same, if not better route guidance as normally installed on a roadway without construction.
2. When permanent regulatory or warning signs conflict with work zone conditions, remove or cover the permanent signs until the permanent sign message matches the roadway condition. For details for covering large guide signs see the TS-CD standard.
3. When existing permanent signs are moved and relocated due to construction purposes, they shall be visible to motorists at all times.
4. If existing signs are to be relocated on their original supports, they shall be installed on crashworthy bases as shown on the SMD Standard sheets. The signs shall meet the required mounting heights shown on the BC Sheets or the SMD Standards. This work should be paid for under the appropriate pay item for relocating existing signs.
5. If permanent signs are to be removed and relocated using temporary supports, the Contractor shall use crashworthy supports as shown on the BC standard sheets, TLRS standard sheets or the CWZTCD list. The signs shall meet the required mounting heights shown on the BC, or the SMD standard sheets during construction. This work should be paid for under the appropriate pay item for relocating existing signs.
6. Any sign or traffic control device that is struck or damaged by the Contractor or his/her construction equipment shall be replaced as soon as possible by the Contractor to ensure proper guidance for the motorists. This will be subsidiary to Item 502.

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. Wooden sign posts shall be painted white.
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, warn, and guide the traveling public safely through the work zone.
5. The Contractor may furnish either the sign design shown in the plans or in the "Standard Highway Sign Designs for Texas" (SHSD). The Engineer/Inspector may require the Contractor to furnish other work zone signs that are shown in the TMUTCD but may have been omitted from 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 being implemented. This can include documenting the changes in the Inspector's TxDOT diary and having both the Inspector and Contractor initial and date the agreed upon changes.
6. The Contractor shall furnish sign supports listed in the "Compliant Work Zone Traffic Control Device List" (CWZTCD) for small roadside signs. Supports for temporary large roadside signs shall meet the requirements detailed on the Temporary Large Roadside Signs (TLRS) standard sheets. The Contractor shall install the sign support in accordance with the manufacturer's recommendations. If there is a question regarding installation procedures, the Contractor shall furnish the Engineer a copy of the manufacturer's installation recommendations so the Engineer can verify the correct procedures are being followed.
7. The Contractor is responsible for installing signs on approved supports and replacing signs with damaged or cracked substrates and/or damaged or marred reflective sheeting as directed by the Engineer/Inspector.
8. Identification markings may 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.
9. The Contractor shall replace damaged wood posts. New or damaged wood sign posts shall not be spliced.

DURATION OF WORK (as defined by the "Texas Manual on Uniform Traffic Control Devices" Part 6)

1. The types of sign supports, sign mounting height, the size of 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 support, sign mounting height and substrate meets manufacturer's recommendations in regard to crashworthiness and duration of work requirements.
   a. Long-term stationary - work that occupies a location more than 3 days.
   b. Intermediate-term stationary - work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting more than one hour.
   c. Short-term stationary - daytime work that occupies a location for more than 1 hour in a single daylight period.
   d. Short, duration - work that occupies a location up to 1 hour.
   e. Mobile - work that moves continuously or intermittently (stopping for up to approximately 15 minutes.)

SIGN MOUNTING HEIGHT

1. 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.
2. 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.
3. Long-term/Intermediate-term Signs may be used in lieu of Short-term/Short Duration signing.
4. Short-term/Short Duration signs shall be used only during daylight and shall be removed at the end of the workday or raised to appropriate Long-term/Intermediate sign height.
5. Regulatory signs shall be mounted at least 7 feet, but not more than 9 feet, above the paved surface regardless of work duration.

SIZE OF SIGNS

1. 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

1. The Contractor shall ensure the sign substrate is installed in accordance with the manufacturer's recommendations for the type of sign support that is being used. The CWZTCD lists each substrate that can be used on the different types and models of sign supports.
2. "Mesh" type materials are NOT an approved sign substrate, regardless of the tightness of the weave.
3. All wooden individual sign panels fabricated from 2 or more pieces shall have one or more plywood cleat, 1/2" thick by 6" wide, fastened to the back of the sign and extending fully across the sign. The cleat 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" centers. The Engineer may approve other methods of splicing the sign face.

REFLECTIVE SHEETING

1. All signs shall be retroreflective and constructed of sheeting meeting the color and retro-reflectivity requirements of DMS-8300 for rigid signs or DMS-8310 for roll-up signs. The web address for DMS specifications is shown on BC(1).
2. White sheeting, meeting the requirements of DMS-8300 Type A, shall be used for signs with a white background.
3. Orange sheeting, meeting the requirements of DMS-8300 Type B_{FL} or Type C_{FL}, shall be used for rigid signs with orange backgrounds.

SIGN LETTERS

1. All sign letters and numbers shall be clear, and open rounded type uppercase 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 first class workmanship in accordance with Department Standards and Specifications.

REMOVING OR COVERING

1. When sign messages may be confusing or do not apply, the signs shall be removed or completely covered.
2. Long-term stationary or intermediate stationary signs installed on square metal tubing may be turned away from traffic 90 degrees when the sign message is not applicable. This technique may not be used for signs installed in the median of divided highways or near any intersections where the sign may be seen from approaching traffic.
3. Signs installed on wooden skids shall not be turned at 90 degree angles to the roadway. These signs should be removed or completely covered when not required.
4. When signs are covered, the material used shall be opaque, such as heavy mil black plastic, or other materials which will cover the entire sign face and maintain their opaque properties under automobile headlights at night, without damaging the sign sheeting.
5. Burlap shall NOT be used to cover signs.
6. Duct tape or other adhesive material shall NOT be affixed to a sign face.
7. Signs and anchor stubs shall be removed and holes backfilled upon completion of work.

SIGN SUPPORT WEIGHTS

1. Where sign supports require the use of weights to keep from turning over, the use of sandbags with dry, cohesionless sand should be used.
2. The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight.
3. Rock, concrete, iron, steel or other solid objects shall not be permitted for use as sign support weights.
4. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs.
5. Sandbags shall be made of a durable material that tears upon vehicular impact. Rubber (such as tire inner tubes) shall NOT be used.
6. Rubber ballasts designed for channelizing devices should not be used for ballast on portable sign supports. Sign supports designed and manufactured with rubber bases may be used when shown on the CWZTCD list.
7. Sandbags shall only be placed along or laid over the base supports of the traffic control device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners. Sandbags shall be placed along the length of the skids to weigh down the sign support.
8. Sandbags shall NOT be placed under the skid and shall not be used to level sign supports placed on slopes.

FLAGS ON SIGNS

1. Flags may be used to draw attention to warning signs. When used, the flag shall be 16 inches square or larger and shall be orange or fluorescent red-orange in color. Flags shall not be allowed to cover any portion of the sign face.

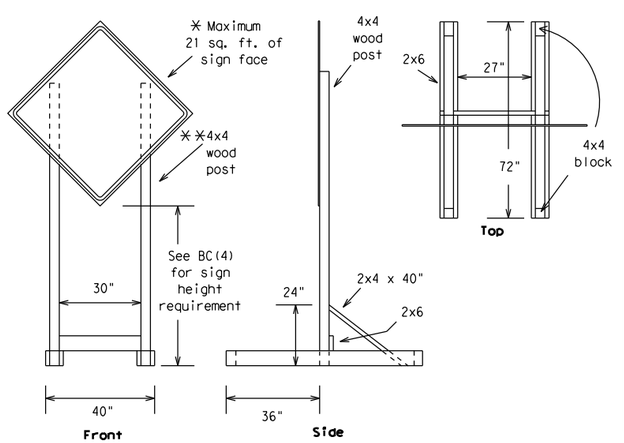
Texas Department of Transportation | Traffic Safety Division Standard

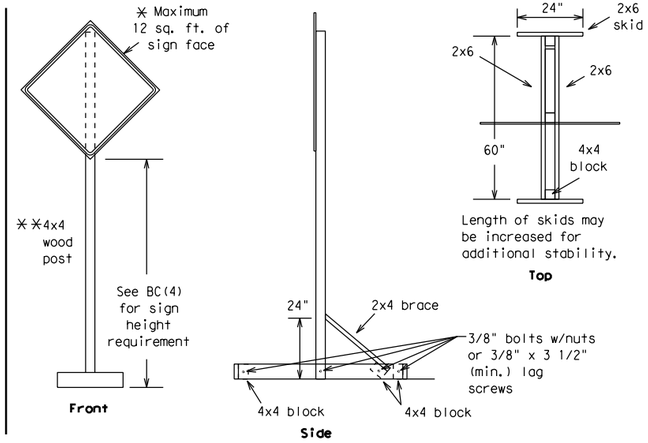
BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES

BC(4)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS	0904	00	223	VARIOUS
9-07 8-14	DIST	COUNTY		SHEET NO.
7-13 5-21	AMA	POTTER		10

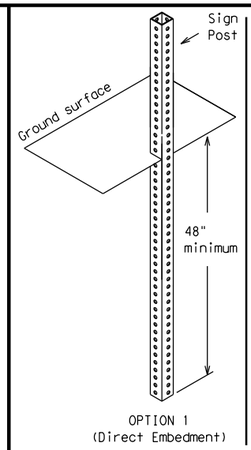
DATE: 9/20/2023 7:03:53 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\02_TRAF_CONTSTD\bc-21.dgn

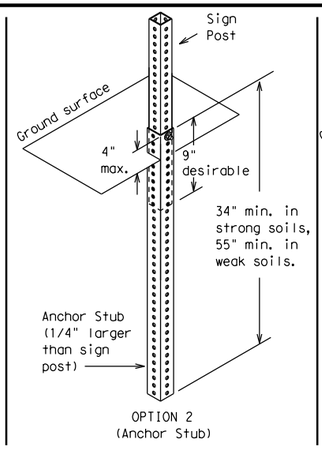


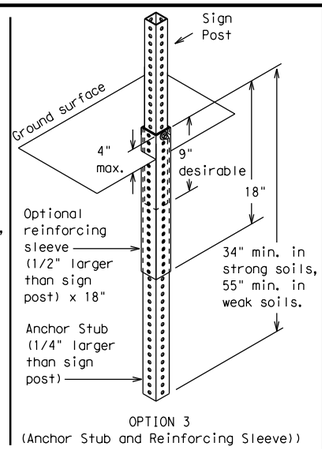


SKID MOUNTED WOOD SIGN SUPPORTS

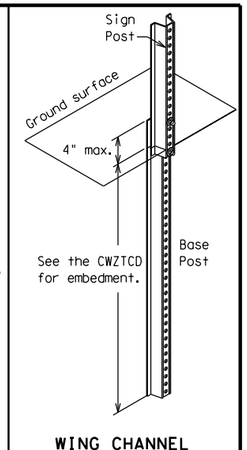
* LONG/INTERMEDIATE TERM STATIONARY - PORTABLE SKID MOUNTED SIGN SUPPORTS







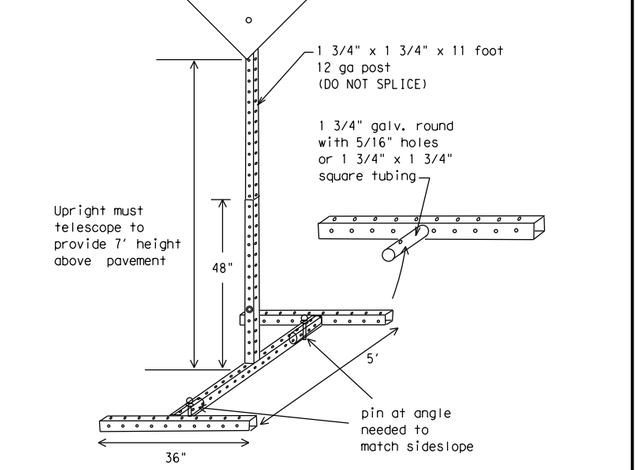
PERFORATED SQUARE METAL TUBING

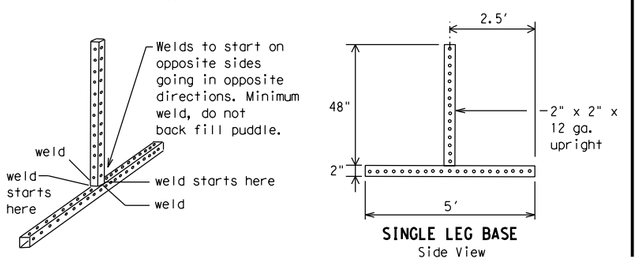


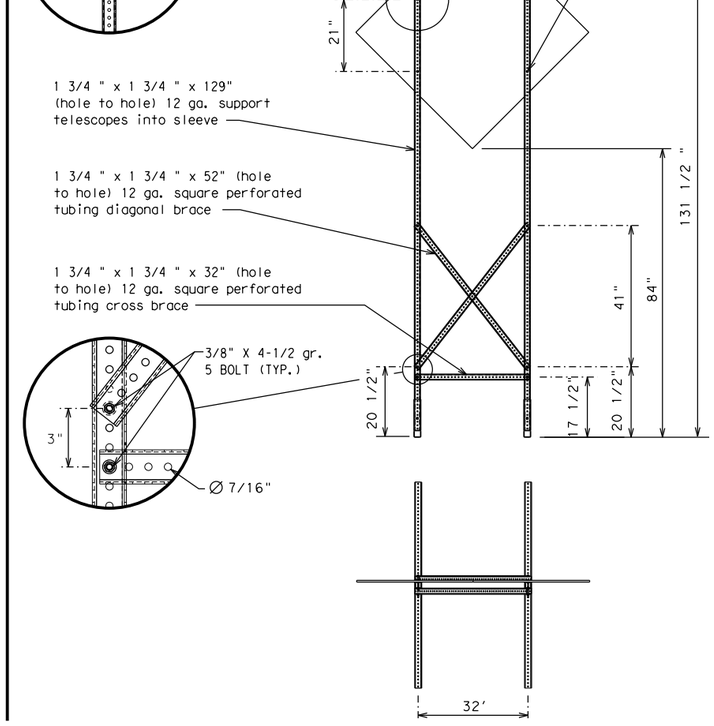
WING CHANNEL
Lap-splice/base bolted anchor

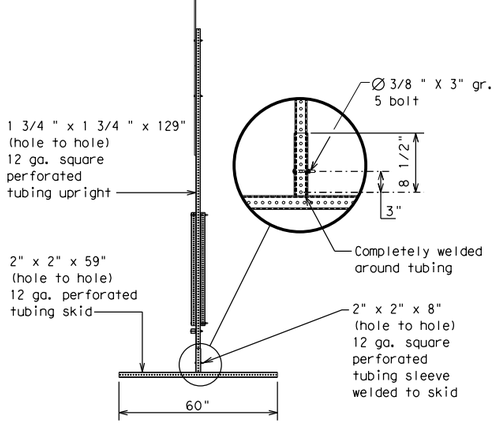
GROUND MOUNTED SIGN SUPPORTS

Refer to the CWZTCD and the manufacturer's installation procedure for each type sign support.
The maximum 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

Both steel and plastic Wedge Anchor Systems as shown on the SMD Standard Sheets may be used as temporary sign supports for signs up to 10 square feet of sign face. They may be set in concrete or in sturdy soils if approved by the Engineer. (See web address for "Traffic Engineering Standard Sheets" on BC(1)).

OTHER DESIGNS

MORE DETAILS OF APPROVED LONG/INTERMEDIATE AND SHORT TERM SUPPORTS CAN BE FOUND ON THE CWZTCD LIST. SEE BC(1) FOR WEBSITE LOCATION.

GENERAL NOTES

1. Nails may be used in the assembly of wooden sign supports, but 3/8" bolts with nuts or 3/8" x 3 1/2" lag screws must be used on every joint for final connection.
2. No more than 2 sign posts shall be placed within a 7 ft. circle, except for specific materials noted on the CWZTCD List.
3. When project is completed, all sign supports and foundations shall be removed from the project site. This will be considered subsidiary to Item 502.

* See BC(4) for definition of "Work Duration."

** Wood sign posts MUST be one piece. Splicing will NOT be allowed. Posts shall be painted white.

☐ See the CWZTCD for the type of sign substrate that can be used for each approved sign support.

Texas Department of Transportation

Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION TYPICAL SIGN SUPPORT

BC(5)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS	0904	00	223	VARIOUS
9-07 8-14	DIST	COUNTY		SHEET NO.
7-13 5-21	AMA	POTTER		11

DATE: 9/20/2023 7:03:53 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\02_TRAF_CONTSTD\bc-21.dgn

WHEN NOT IN USE, REMOVE THE PCMS FROM THE RIGHT-OF-WAY OR PLACE THE PCMS BEHIND BARRIER OR GUARDRAIL WITH SIGN PANEL TURNED PARALLEL TO TRAFFIC

PORTABLE CHANGEABLE MESSAGE SIGNS

1. The Engineer/Inspector shall approve all messages used on portable changeable message signs (PCMS).
2. Messages on PCMS should contain no more than 8 words (about four to eight characters per word), not including simple words such as "TO," "FOR," "AT," etc.
3. Messages should consist of a single phase, or two phases that alternate. Three-phase messages are not allowed. Each phase of the message should convey a single thought, and must be understood by itself.
4. Use the word "EXIT" to refer to an exit ramp on a freeway; i.e., "EXIT CLOSED." Do not use the term "RAMP."
5. Always use the route or interstate designation (IH, US, SH, FM) along with the number when referring to a roadway.
6. When in use, the bottom of a stationary PCMS message panel should be a minimum 7 feet above the roadway, where possible.
7. The message term "WEEKEND" should be used only if the work is to start on Saturday morning and end by Sunday evening at midnight. Actual days and hours of work should be displayed on the PCMS if work is to begin on Friday evening and/or continue into Monday morning.
8. The Engineer/Inspector may select one of two options which are available for displaying a two-phase message on a PCMS. Each phase may be displayed for either four seconds each or for three seconds each.
9. Do not "flash" messages or words included in a message. The message should be steady burn or continuous while displayed.
10. Do not present redundant information on a two-phase message; i.e., keeping two lines of the message the same and changing the third line.
11. Do not use the word "Danger" in message.
12. Do not display the message "LANES SHIFT LEFT" or "LANES SHIFT RIGHT" on a PCMS. Drivers do not understand the message.
13. Do not display messages that scroll horizontally or vertically across the face of the sign.
14. The following table lists abbreviated words and two-word phrases that are acceptable for use on a PCMS. Both words in a phrase must be displayed together. Words or phrases not on this list should not be abbreviated, unless shown in the TMUTCD.
15. PCMS character height should be at least 18 inches for trailer mounted units. They should be visible from at least 1/2 (.5) mile and the text should be legible from at least 600 feet at night and 800 feet in daylight. Truck mounted units must have a character height of 10 inches and must be legible from at least 400 feet.
16. Each line of text should be centered on the message board rather than left or right justified.
17. If disabled, the PCMS should default to an illegible display that will not alarm motorists and will only be used to alert workers that the PCMS has malfunctioned. A pattern such as a series of horizontal solid bars is appropriate.

WORD OR PHRASE	ABBREVIATION
Access Road	ACCS RD
Alternate	ALT
Avenue	AVE
Best Route	BEST RTE
Boulevard	BLVD
Bridge	BRDG
Cannot	CANT
Center	CTR
Construction Ahead	CONST AHD
CROSSING	XING
Detour Route	DETOUR RTE
Do Not	DONT
East	E
Eastbound	(route) E
Emergency	EMER
Emergency Vehicle	EMER VEH
Entrance, Enter	ENT
Express Lane	EXP LN
Expressway	EXPWY
XXXX Feet	XXXX FT
Fog Ahead	FOG AHD
Freeway	FRWY, FWY
Freeway Blocked	FWY BLKD
Friday	FRI
Hazardous Driving	HAZ DRIVING
Hazardous Material	HAZMAT
High-Occupancy	HOV
Vehicle Highway	HWY
Hour(s)	HR, HRS
Information	INFO
It Is	ITS
Junction	JCT
Left	LFT
Left Lane	LFT LN
Lane Closed	LN CLOSED
Lower Level	LWR LEVEL
Maintenance	MAINT

WORD OR PHRASE	ABBREVIATION
Major	MAJ
Miles	MI
Miles Per Hour	MPH
Minor	MNR
Monday	MON
Normal	NORM
North	N
Northbound	(route) N
Parking	PKING
Road	RD
Right Lane	RT LN
Saturday	SAT
Service Road	SERV RD
Shoulder	SHLDR
Slippery	SLIP
South	S
Southbound	(route) S
Speed	SPD
Street	ST
Sunday	SUN
Telephone	PHONE
Temporary	TEMP
Thursday	THURS
To Downtown	TO DWNTN
Traffic	TRAF
Travelers	TRVLRS
Tuesday	TUES
Time Minutes	TIME MIN
Upper Level	UPR LEVEL
Vehicles (s)	VEH, VEHS
Warning	WARN
Wednesday	WED
Weight Limit	WT LIMIT
West	W
Westbound	(route) W
Wet Pavement	WET PVMT
Will Not	WONT

Roadway designation # IH-number, US-number, SH-number, FM-number

RECOMMENDED PHASES AND FORMATS FOR PCMS MESSAGES DURING ROADWORK ACTIVITIES

(The Engineer may approve other messages not specifically covered here.)

Phase 1: Condition Lists

Road/Lane/Ramp Closure List

- FREEWAY CLOSED X MILE
- FRONTAGE ROAD CLOSED
- ROAD CLOSED AT SH XXX
- SHOULDER CLOSED XXX FT
- ROAD CLSD AT FM XXXX
- RIGHT LN CLOSED XXX FT
- RIGHT X LANES CLOSED
- RIGHT X LANES OPEN
- CENTER LANE CLOSED
- DAYTIME LANE CLOSURES
- NIGHT LANE CLOSURES
- I-XX SOUTH EXIT CLOSED
- VARIOUS LANES CLOSED
- EXIT XXX CLOSED X MILE
- EXIT CLOSED
- RIGHT LN TO BE CLOSED
- MALL DRIVEWAY CLOSED
- X LANES CLOSED TUE - FRI
- XXXXXXXX BLVD CLOSED

Other Condition List

- ROADWORK XXX FT
- ROAD REPAIRS XXXX FT
- FLAGGER XXXX FT
- LANE NARROWS XXXX FT
- RIGHT LN NARROWS XXXX FT
- TWO-WAY TRAFFIC XX MILE
- MERGING TRAFFIC XXXX FT
- CONST TRAFFIC XXX FT
- LOOSE GRAVEL XXXX FT
- UNEVEN LANES XXXX FT
- DETOUR X MILE
- ROUGH ROAD XXXX FT
- ROADWORK PAST SH XXXX
- ROADWORK NEXT FRI-SUN
- BUMP XXXX FT
- US XXX EXIT X MILES
- TRAFFIC SIGNAL XXXX FT
- LANES SHIFT *

* LANES SHIFT in Phase 1 must be used with STAY IN LANE in Phase 2.

Phase 2: Possible Component Lists

Action to Take/Effect on Travel List

- MERGE RIGHT
- FORM X LINES RIGHT
- DETOUR NEXT X EXITS
- USE XXXXX RD EXIT
- USE EXIT XXX
- USE EXIT I-XX NORTH
- STAY ON US XXX SOUTH
- USE I-XX E TO I-XX N
- TRUCKS USE US XXX N
- WATCH FOR TRUCKS
- WATCH FOR TRUCKS
- EXPECT DELAYS
- EXPECT DELAYS
- PREPARE TO STOP
- REDUCE SPEED XXX FT
- END SHOULDER USE
- USE OTHER ROUTES
- WATCH FOR WORKERS
- STAY IN LANE *

Location List

- AT FM XXXX
- BEFORE RAILROAD CROSSING
- NEXT X MILES
- PAST US XXX EXIT
- XXXXXXX TO XXXXXXX
- US XXX TO FM XXXX

Warning List

- SPEED LIMIT XX MPH
- MAXIMUM SPEED XX MPH
- MINIMUM SPEED XX MPH
- ADVISORY SPEED XX MPH
- RIGHT LANE EXIT
- USE CAUTION
- DRIVE SAFELY
- DRIVE WITH CARE

** Advance Notice List

- TUE-FRI XX AM- X PM
- APR XX-XX X PM-X AM
- BEGINS MONDAY
- BEGINS MAY XX
- MAY X-X XX PM - XX AM
- NEXT FRI-SUN
- XX AM TO XX PM
- NEXT TUE AUG XX
- TONIGHT XX PM- XX AM

* LANES SHIFT in Phase 1 must be used with STAY IN LANE in Phase 2.

** See Application Guidelines Note 6.

APPLICATION GUIDELINES

1. Only 1 or 2 phases are to be used on a PCMS.
2. The 1st phase (or both) should be selected from the "Road/Lane/Ramp Closure List" and the "Other Condition List".
3. A 2nd phase can be selected from the "Action to Take/Effect on Travel, Location, General Warning, or Advance Notice Phase Lists".
4. A Location Phase is necessary only if a distance or location is not included in the first phase selected.
5. If two PCMS are used in sequence, they must be separated by a minimum of 1000 ft. Each PCMS shall be limited to two phases, and should be understandable by themselves.
6. For advance notice, when the current date is within seven days of the actual work date, calendar days should be replaced with days of the week. Advance notification should typically be for no more than one week prior to the work.

WORDING ALTERNATIVES

1. The words RIGHT, LEFT and ALL can be interchanged as appropriate.
2. Roadway designations IH, US, SH, FM and LP can be interchanged as appropriate.
3. EAST, WEST, NORTH and SOUTH (or abbreviations E, W, N and S) can be interchanged as appropriate.
4. Highway names and numbers replaced as appropriate.
5. ROAD, HIGHWAY and FREEWAY can be interchanged as needed.
6. AHEAD may be used instead of distances if necessary.
7. FT and MI, MILE and MILES interchanged as appropriate.
8. AT, BEFORE and PAST interchanged as needed.
9. Distances or AHEAD can be eliminated from the message if a location phase is used.

PCMS SIGNS WITHIN THE R.O.W. SHALL BE BEHIND GUARDRAIL OR CONCRETE BARRIER OR SHALL HAVE A MINIMUM OF FOUR (4) PLASTIC DRUMS PLACED PERPENDICULAR TO TRAFFIC ON THE UPSTREAM SIDE OF THE PCMS, WHEN EXPOSED TO ONE DIRECTION OF TRAFFIC. WHEN EXPOSED TO TWO WAY TRAFFIC, THE FOUR DRUMS SHOULD BE PLACED WITH ONE DRUM AT EACH OF THE FOUR CORNERS OF THE UNIT.

FULL MATRIX PCMS SIGNS

1. When Full Matrix PCMS signs are used, the character height and legibility/visibility requirements shall be maintained as listed in Note 15 under "PORTABLE CHANGEABLE MESSAGE SIGNS" above.
2. When symbol signs, such as the "Flagger Symbol"(CW20-7) are represented graphically on the Full Matrix PCMS sign and, with the approval of the Engineer, it shall maintain the legibility/visibility requirement listed above.
3. When symbol signs are represented graphically on the Full Matrix PCMS, they shall only supplement the use of the static sign represented, and shall not substitute for, or replace that sign.
4. A full matrix PCMS may be used to simulate a flashing arrow board provided it meets the visibility, flash rate and dimming requirements on BC(7), for the same size arrow.

Texas Department of Transportation

Traffic Safety Division Standard

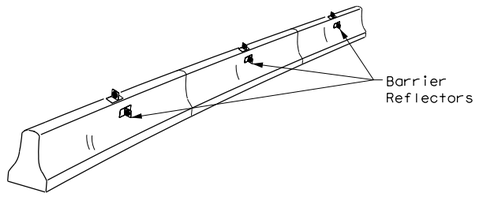
BARRICADE AND CONSTRUCTION PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

BC(6)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS	0904	00	223	VARIOUS
9-07 8-14	DIST	COUNTY		SHEET NO.
7-13 5-21	AMA	POTTER		12

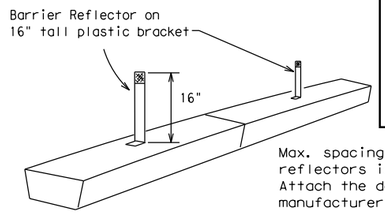
DATE: 9/20/2023 7:03:53 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\02_TRAF_CONT\STD\bc-21.dgn

1. Barrier Reflectors shall be pre-qualified, and conform to the color and reflectivity requirements of DMS-8600. A list of prequalified Barrier Reflectors can be found at the Material Producer List web address shown on BC(1).
2. Color of Barrier Reflectors shall be as specified in the TMUTCD. The cost of the reflectors shall be considered subsidiary to Item 512.



CONCRETE TRAFFIC BARRIER (CTB)

3. Where traffic is on one side of the CTB, two (2) Barrier Reflectors shall be mounted in approximately the midsection of each section of CTB. An alternate mounting location is uniformly spaced at one end of each CTB. This will allow for attachment of a barrier grapple without damaging the reflector. The Barrier Reflector mounted on the side of the CTB shall be located directly below the reflector mounted on top of the barrier, as shown in the detail above.
4. Where CTB separates two-way traffic, three barrier reflectors shall be mounted on each section of CTB. The reflector unit on top shall have two yellow reflective faces (Bi-Directional)while the reflectors on each side of the barrier shall have one yellow reflective face, as shown in the detail above.
5. When CTB separates traffic traveling in the same direction, no barrier reflectors will be required on top of the CTB.
6. Barrier Reflector units shall be yellow or white in color to match the edgeline being supplemented.
7. Maximum spacing of Barrier Reflectors is forty (40) feet.
8. Pavement markers or temporary flexible-reflective roadway marker tabs shall NOT be used as CTB delineation.
9. Attachment of Barrier Reflectors to CTB shall be per manufacturer's recommendations.
10. Missing or damaged Barrier Reflectors shall be replaced as directed by the Engineer.
11. Single slope barriers shall be delineated as shown on the above detail.

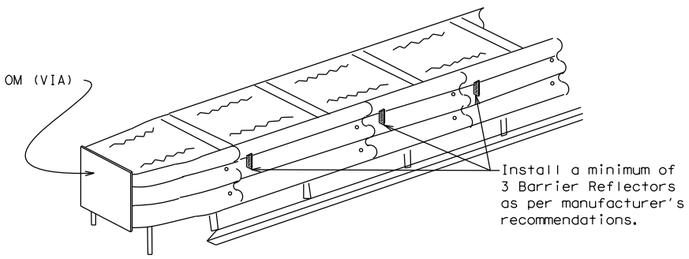


Max. spacing of barrier reflectors is 20 feet. Attach the delineators as per manufacturer's recommendations.

LOW PROFILE CONCRETE BARRIER (LPCB) USED IN WORK ZONES

LPCB is approved for use in work zone locations, where the posted speed is 45mph, or less. See Roadway Standard Sheet LPCB.

LOW PROFILE CONCRETE BARRIER (LPCB)

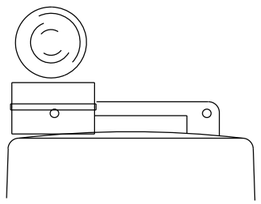


DELINEATION OF END TREATMENTS

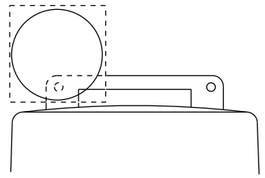
END TREATMENTS FOR CTB'S USED IN WORK ZONES

End treatments used on CTB's in work zones shall meet the apppropriate crashworthy standards as defined in the Manual for Assessing Safety Hardware (MASH). Refer to the CWZTCD List for approved end treatments and manufacturers.

BARRIER REFLECTORS FOR CONCRETE TRAFFIC BARRIER AND ATTENUATORS



Type C Warning Light or approved substitute mounted on a drum adjacent to the travel way.



Warning reflector may be round or square.Must have a yellow reflective surface area of at least 30 square inches

WARNING LIGHTS

1. Warning lights shall meet the requirements of the TMUTCD.
2. Warning lights shall NOT be installed on barricades.
3. Type A-Low Intensity Flashing Warning Lights are commonly used with drums. They are intended to warn of or mark a potentially hazardous area. Their use shall be as indicated on this sheet and/or other sheets of the plans by the designation "FL". The Type A Warning Lights shall not be used with signs manufactured with Type B_{FL} or C_{FL} Sheeting meeting the requirements of Departmental Material Specification DMS-8300.
4. Type-C and Type D 360 degree Steady Burn Lights are intended to be used in a series for delineation to supplement other traffic control devices. Their use shall be as indicated on this sheet and/or other sheets of the plans by the designation "SB".
5. The Engineer/Inspector or the plans shall specify the location and type of warning lights to be installed on the traffic control devices.
6. When required by the Engineer, the Contractor shall furnish a copy of the warning lights certification. The warning light manufacturer will certify the warning lights meet the requirements of the latest ITE Purchase Specifications for Flashing and Steady-Burn Warning Lights.
7. When used to delineate curves, Type-C and Type D Steady Burn Lights should only be placed on the outside of the curve, not the inside.
8. The location of warning lights and warning reflectors on drums shall be as shown elsewhere in the plans.

WARNING LIGHTS MOUNTED ON PLASTIC DRUMS

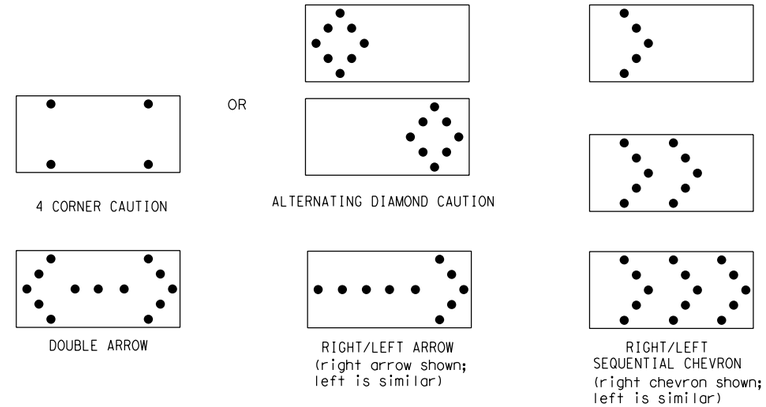
1. Type A flashing warning lights are intended to warn drivers that they are approaching or are in a potentially hazardous area.
2. Type A random flashing warning lights are not intended for delineation and shall not be used in a series.
3. A series of sequential flashing warning lights placed on channelizing devices to form a merging taper may be used for delineation. If used, the successive flashing of the sequential warning lights should occur from the beginning of the taper to the end of the merging taper in order to identify the desired vehicle path. The rate of flashing for each light shall be 65 flashes per minute, plus or minus 10 flashes.
4. Type C and D steady-burn warning lights are intended to be used in a series to delineate the edge of the travel lane on detours, on lane changes, on lane closures, and on other similar conditions.
5. Type A, Type C and Type D warning lights shall be installed at locations as detailed on other sheets in the plans.
6. Warning lights shall not be installed on a drum that has a sign, chevron or vertical panel.
7. The maximum spacing for warning lights on drums should be identical to the channelizing device spacing.

WARNING REFLECTORS MOUNTED ON PLASTIC DRUMS AS A SUBSTITUTE FOR TYPE C (STEADY BURN) WARNING LIGHTS

1. A warning reflector or approved substitute may be mounted on a plastic drum as a substitute for a Type C, steady burn warning light at the discretion of the Contractor unless otherwise noted in the plans.
2. The warning reflector shall be yellow in color and shall be manufactured using a sign substrate approved for use with plastic drums listed on the CWZTCD.
3. The warning reflector shall have a minimum retroreflective surface area (one-side) of 30 square inches.
4. Round reflectors shall be fully reflectorized, including the area where attached to the drum.
5. Square substrates must have a minimum of 30 square inches of reflectorized sheeting. They do not have to be reflectorized where it attaches to the drum.
6. The side of the warning reflector facing approaching traffic shall have sheeting meeting the color and retroreflectivity requirements for DMS 8300-Type B or Type C.
7. When used near two-way traffic, both sides of the warning reflector shall be reflectorized.
8. The warning reflector should be mounted on the side of the handle nearest approaching traffic.
9. The maximum spacing for warning reflectors should be identical to the channelizing device spacing requirements.

Arrow Boards may be located behind channelizing devices in place for a shoulder taper or merging taper, otherwise they shall be delineated with four (4) channelizing devices placed perpendicular to traffic on the upstream side of traffic.

1. The Flashing Arrow Board should be used for all lane closures on multi-lane roadways, or slow moving maintenance or construction activities on the travel lanes.
2. Flashing Arrow Boards should not be used on two-lane, two-way roadways, detours, diversions or work on shoulders unless the "CAUTION" display (see detail below) is used.
3. The Engineer/Inspector shall choose all appropriate signs, barricades and/or other traffic control devices that should be used in conjunction with the Flashing Arrow Board.
4. The Flashing Arrow Board should be able to display the following symbols:



4 CORNER CAUTION

ALTERNATING DIAMOND CAUTION

DOUBLE ARROW

RIGHT/LEFT ARROW
(right arrow shown;
left is similar)

RIGHT/LEFT
SEQUENTIAL CHEVRON
(right chevron shown;
left is similar)

5. The "CAUTION" display consists of four corner lamps flashing simultaneously, or the Alternating Diamond Caution mode as shown.
6. The straight line caution display is NOT ALLOWED.
7. The Flashing Arrow Board shall be capable of minimum 50 percent dimming from rated lamp voltage. The flashing rate of the lamps shall not be less than 25 nor more than 40 flashes per minute.
8. Minimum lamp "on time" shall be approximately 50 percent for the flashing arrow and equal intervals of 25 percent for each sequential phase of the flashing chevron.
9. The sequential arrow display is NOT ALLOWED.
10. The flashing arrow display is the TxDOT standard; however, the sequential chevron display may be used during daylight operations.
11. The Flashing Arrow Board shall be mounted on a vehicle, trailer or other suitable support.
12. A Flashing Arrow Board SHALL NOT BE USED to laterally shift traffic.
13. A full matrix PCMS may be used to simulate a Flashing Arrow Board provided it meets visibility, flash rate and dimming requirements on this sheet for the same size arrow.
14. Minimum mounting height of trailer mounted Arrow Boards should be 7 feet from roadway to bottom of panel.

REQUIREMENTS			
TYPE	MINIMUM SIZE	MINIMUM NUMBER OF PANEL LAMPS	MINIMUM VISIBILITY DISTANCE
B	30 x 60	13	3/4 mile
C	48 x 96	15	1 mile

ATTENTION

Flashing Arrow Boards shall be equipped with automatic dimming devices.

WHEN NOT IN USE, REMOVE THE ARROW BOARD FROM THE RIGHT-OF-WAY OR PLACE THE ARROW BOARD BEHIND CONCRETE TRAFFIC BARRIER OR GUARDRAIL.

FLASHING ARROW BOARDS

TRUCK-MOUNTED ATTENUATORS

1. Truck-mounted attenuators (TMA) used on TxDOT facilities must meet the requirements outlined in the Manual for Assessing Safety Hardware (MASH).
2. Refer to the CWZTCD for the requirements of Level 2 or Level 3 TMAs.
3. Refer to the CWZTCD for a list of approved TMAs.
4. TMAs are required on freeways unless otherwise noted in the plans.
5. A TMA should be used anytime that it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the work performance.
6. The only reason a TMA should not be required is when a work area is spread down the roadway and the work crew is an extended distance from the TMA.

Texas Department of Transportation — Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION ARROW PANEL, REFLECTORS, WARNING LIGHTS & ATTENUATOR

BC(7)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS	0904	00	223	VARIOUS
9-07 8-14	DIST	COUNTY		SHEET NO.
7-13 5-21	AMA	POTTER		13

DATE: 9/20/2023 7:03:54 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\02_TRAF_CONT\STD\bc-21.dgn

GENERAL NOTES

1. For long term stationary work zones on freeways, drums shall be used as the primary channelizing device.
2. For intermediate term stationary work zones on freeways, drums should be used as the primary channelizing device but may be replaced in tangent sections by vertical panels, or 42" two-piece cones. In tangent sections, one-piece cones may be used with the approval of the Engineer but only if personnel are present on the project at all times to maintain the cones in proper position and location.
3. For short term stationary work zones on freeways, drums are the preferred channelizing device but may be replaced in tapers, transitions and tangent sections by vertical panels, two-piece cones or one-piece cones as approved by the Engineer.
4. Drums and all related items shall comply with the requirements of the current version of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) and the "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
5. Drums, bases, and related materials shall exhibit good workmanship and shall be free from objectionable marks or defects that would adversely affect their appearance or serviceability.
6. The Contractor shall have a maximum of 24 hours to replace any plastic drums identified for replacement by the Engineer/Inspector. The replacement device must be an approved device.

GENERAL DESIGN REQUIREMENTS

Pre-qualified plastic drums shall meet the following requirements:

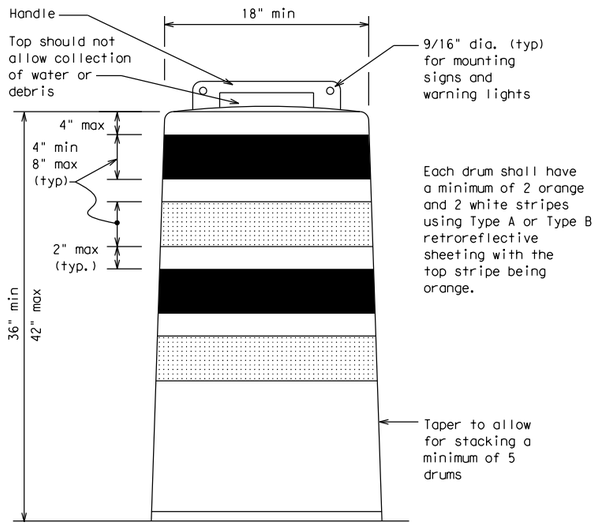
1. Plastic drums shall be a two-piece design; the "body" of the drum shall be the top portion and the "base" shall be the bottom.
2. The body and base shall lock together in such a manner that the body separates from the base when impacted by a vehicle traveling at a speed of 20 MPH or greater but prevents accidental separation due to normal handling and/or air turbulence created by passing vehicles.
3. Plastic drums shall be constructed of lightweight flexible, and deformable materials. The Contractor shall NOT use metal drums or single piece plastic drums as channelization devices or sign supports.
4. Drums shall present a profile that is a minimum of 18 inches in width at the 36 inch height when viewed from any direction. The height of drum unit (body installed on base) shall be a minimum of 36 inches and a maximum of 42 inches.
5. The top of the drum shall have a built-in handle for easy pickup and shall be designed to drain water and not collect debris. The handle shall have a minimum of two widely spaced 9/16 inch diameter holes to allow attachment of a warning light, warning reflector unit or approved compliant sign.
6. The exterior of the drum body shall have a minimum of four alternating orange and white retroreflective circumferential stripes not less than 4 inches nor greater than 8 inches in width. Any non-reflectorized space between any two adjacent stripes shall not exceed 2 inches in width.
7. Bases shall have a maximum width of 36 inches, a maximum height of 4 inches, and a minimum of two footholds of sufficient size to allow base to be held down while separating the drum body from the base.
8. Plastic drums shall be constructed of ultra-violet stabilized, orange, high-density polyethylene (HDPE) or other approved material.
9. Drum body shall have a maximum unballasted weight of 11 lbs.
10. Drum and base shall be marked with manufacturer's name and model number.

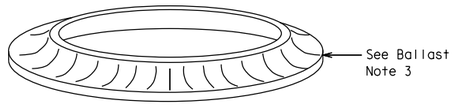
RETROREFLECTIVE SHEETING

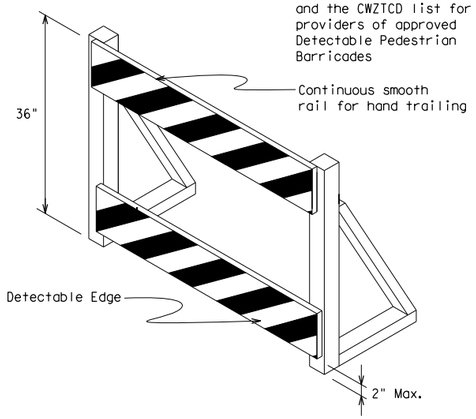
1. The stripes used on drums shall be constructed of sheeting meeting the color and retroreflectivity requirements of Departmental Materials Specification DMS-8300, "Sign Face Materials." Type A or Type B reflective sheeting shall be supplied unless otherwise specified in the plans.
2. The sheeting shall be suitable for use on and shall adhere to the drum surface such that, upon vehicular impact, the sheeting shall remain adhered in-place and exhibit no delaminating, cracking, or loss of retroreflectivity other than that loss due to abrasion of the sheeting surface.

BALLAST

1. Unballasted bases shall be large enough to hold up to 50 lbs. of sand. This base, when filled with the ballast material, should weigh between 35 lbs (minimum) and 50 lbs (maximum). The ballast may be sand in one to three sandbags separate from the base, sand in a sand-filled plastic base, or other ballasting devices as approved by the Engineer. Stacking of sandbags will be allowed, however height of sandbags above pavement surface may not exceed 12 inches.
2. Bases with built-in ballast shall weigh between 40 lbs. and 50 lbs. Built-in ballast can be constructed of an integral crumb rubber base or a solid rubber base.
3. Recycled truck tire sidewalls may be used for ballast on drums approved for this type of ballast on the CWZTCD list.
4. The ballast shall not be heavy objects, water, or any material that would become hazardous to motorists, pedestrians, or workers when the drum is struck by a vehicle.
5. When used in regions susceptible to freezing, drums shall have drainage holes in the bottoms so that water will not collect and freeze becoming a hazard when struck by a vehicle.
6. Ballast shall not be placed on top of drums.
7. Adhesives may be used to secure base of drums to pavement.

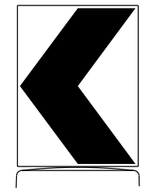




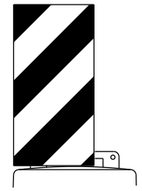


DETECTABLE PEDESTRIAN BARRICADES

1. When existing pedestrian facilities are disrupted, closed, or relocated in a TTC zone, the temporary facilities shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility. Refer to WZ(BTS-2) for Pedestrian Control requirements for Sidewalk Diversions, Sidewalk Detours and Crosswalk Closures.
2. Where pedestrians with visual disabilities normally use the closed sidewalk, a Detectable Pedestrian Barricade shall be placed across the full width of the closed sidewalk instead of a Type 3 Barricade.
3. Detectable pedestrian barricades similar to the one pictured above, longitudinal channelizing devices, some concrete barriers, and wood or chain link fencing with a continuous detectable edging can satisfactorily delineate a pedestrian path.
4. Tape, rope, or plastic chain strung between devices are not detectable, do not comply with the design standards in the "Americans with Disabilities Act Accessibility Guidelines (ADAAG)" and should not be used as a control for pedestrian movements.
5. Warning lights shall not be attached to detectable pedestrian barricades.
6. Detectable pedestrian barricades should use 8" nominal barricade rails as shown on BC(10) provided that the top rail provides a smooth continuous rail suitable for hand trailing with no splinters, burrs, or sharp edges.



18" x 24" Sign
(Maximum Sign Dimension)
Chevron CW1-8, Opposing Traffic Lane Divider, Driveway sign D70a, Keep Right R4 series or other signs as approved by Engineer



12" x 24"
Vertical Panel
mount with diagonals sloping down towards travel way

Plywood, Aluminum or Metal sign substrates shall NOT be used on plastic drums

SIGNS, CHEVRONS, AND VERTICAL PANELS MOUNTED ON PLASTIC DRUMS

1. Signs used on plastic drums shall be manufactured using substrates listed on the CWZTCD.
2. Chevrons and other work zone signs with an orange background shall be manufactured with Type B_{FL} or Type C_{FL} Orange sheeting meeting the color and retroreflectivity requirements of DMS-8300, "Sign Face Material," unless otherwise specified in the plans.
3. Vertical Panels shall be manufactured with orange and white sheeting meeting the requirements of DMS-8300 Type A or Type B. Diagonal stripes on Vertical Panels shall slope down toward the intended traveled lane.
4. Other sign messages (text or symbolic) may be used as approved by the Engineer. Sign dimensions shall not exceed 18 inches in width or 24 inches in height, except for the R9 series signs discussed in note 8 below.
5. Signs shall be installed using a 1/2 inch bolt (nominal) and nut, two washers, and one locking washer for each connection.
6. Mounting bolts and nuts shall be fully engaged and adequately torqued. Bolts should not extend more than 1/2 inch beyond nuts.
7. Chevrons may be placed on drums on the outside of curves, on merging tapers or on shifting tapers. When used in these locations, they may be placed on every drum or spaced not more than on every third drum. A minimum of three (3) should be used at each location called for in the plans.
8. R9-9, R9-10, R9-11 and R9-11a Sidewalk Closed signs which are 24 inches wide may be mounted on plastic drums, with approval of the Engineer.

Texas Department of Transportation | Traffic Safety Division Standard

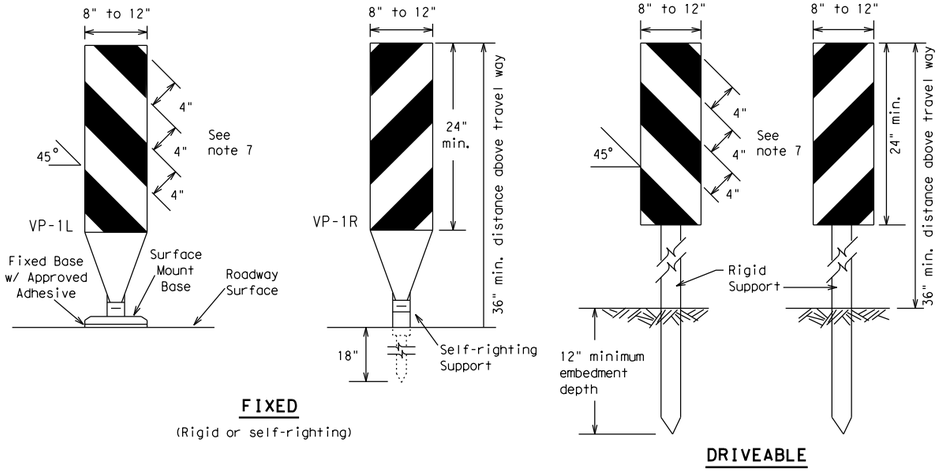
BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(8)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS	0904	00	223	VARIOUS
4-03 8-14	DIST	COUNTY		SHEET NO.
9-07 5-21	AMA	POTTER		14
7-13				

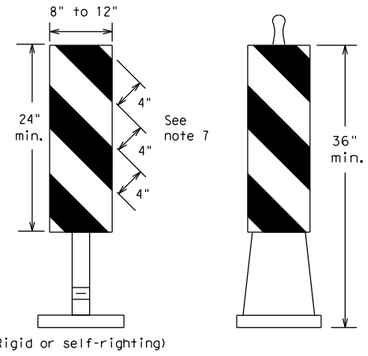
102

DATE: 9/20/2023 7:03:54 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\02_TRAF_CONT\STD\bc-21.dgn



FIXED
(Rigid or self-righting)

DRIVEABLE

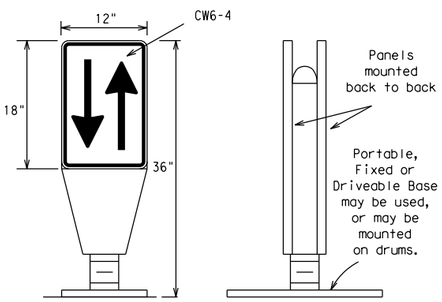


(Rigid or self-righting)

PORTABLE

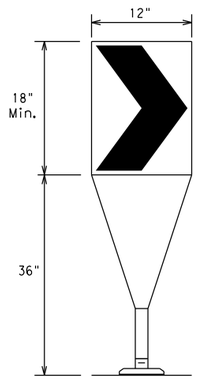
1. Vertical Panels (VP's) are normally used to channelize traffic or divide opposing lanes of traffic.
2. VP's may be used in daytime or nighttime situations. They may be used at the edge of shoulder drop-offs and other areas such as lane transitions where positive daytime and nighttime delineation is required. The Engineer/Inspector shall refer to the Roadway Design Manual for additional requirements on the use VP's for drop-offs.
3. VP's should be mounted back to back if used at the edge of cuts adjacent to two-way two lane roadways. Stripes are to be reflective orange and reflective white and should always slope downward toward the travel lane.
4. VP's used on expressways and freeways or other high speed roadways, may have more than 270 square inches of retroreflective area facing traffic.
5. Self-righting supports are available with portable base. See "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
6. Sheeting for the VP's shall be retroreflective Type A or Type B conforming to Departmental Material Specification DMS-8300, unless noted otherwise.
7. Where the height of reflective material on the vertical panel is 36 inches or greater, a panel stripe of 6 inches shall be used.

VERTICAL PANELS (VPs)



1. Opposing Traffic Lane Dividers (OTLD) are delineation devices designed to convert a normal one-way roadway section to two-way operation. OTLD's are used on temporary centerlines. The upward and downward arrows on the sign's face indicate the direction of traffic on either side of the divider. The base is secured to the pavement with an adhesive or rubber weight to minimize movement caused by a vehicle impact or wind gust.
2. The OTLD may be used in combination with 42" cones or VPs.
3. Spacing between the OTLD shall not exceed 500 feet. 42" cones or VPs placed between the OTLD's should not exceed 100 foot spacing.
4. The OTLD shall be orange with a black non-reflective legend. Sheeting for the OTLD shall be retroreflective Type B_{FL} or Type C_{FL} conforming to Departmental Material Specification DMS-8300, unless noted otherwise. The legend shall meet the requirements of DMS-8300.

OPPOSING TRAFFIC LANE DIVIDERS (OTLD)



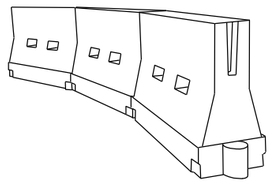
Fixed Base w/ Approved Adhesive (Driveable Base, or Flexible Support can be used)

1. The chevron shall be a vertical rectangle with a minimum size of 12 by 18 inches.
2. Chevrons are intended to give notice of a sharp change of alignment with the direction of travel and provide additional emphasis and guidance for vehicle operators with regard to changes in horizontal alignment of the roadway.
3. Chevrons, when used, shall be erected on the outside of a sharp curve or turn, or on the far side of an intersection. They shall be in line with and at right angles to approaching traffic. Spacing should be such that the motorist always has three in view, until the change in alignment eliminates its need.
4. To be effective, the chevron should be visible for at least 500 feet.
5. Chevrons shall be orange with a black nonreflective legend. Sheeting for the chevron shall be retroreflective Type B_{FL} or Type C_{FL} conforming to Departmental Material Specification DMS-8300, unless noted otherwise. The legend shall meet the requirements of DMS-8300.
6. For Long Term Stationary use on tapers or transitions on freeways and divided highways, self-righting chevrons may be used to supplement plastic drums but not to replace plastic drums.

CHEVRONS

GENERAL NOTES

1. Work Zone channelizing devices illustrated on this sheet may be installed in close proximity to traffic and are suitable for use on high or low speed roadways. The Engineer/Inspector shall ensure that spacing and placement is uniform and in accordance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
2. Channelizing devices shown on this sheet may have a driveable, fixed or portable base. The requirement for self-righting channelizing devices must be specified in the General Notes or other plan sheets.
3. Channelizing devices on self-righting supports should be used in work zone areas where channelizing devices are frequently impacted by errant vehicles or vehicle related wind gusts making alignment of the channelizing devices difficult to maintain. Locations of these devices shall be detailed elsewhere in the plans. These devices shall conform to the TMUTCD and the "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
4. The Contractor shall maintain devices in a clean condition and replace damaged, nonreflective, faded, or broken devices and bases as required by the Engineer/Inspector. The Contractor shall be required to maintain proper device spacing and alignment.
5. Portable bases shall be fabricated from virgin and/or recycled rubber. The portable bases shall weigh a minimum of 30 lbs.
6. Pavement surfaces shall be prepared in a manner that ensures proper bonding between the adhesives, the fixed mount bases and the pavement surface. Adhesives shall be prepared and applied according to the manufacturer's recommendations.
7. The installation and removal of channelizing devices shall not cause detrimental effects to the final pavement surfaces, including pavement surface discoloration or surface integrity. Driveable bases shall not be permitted on final pavement surfaces. The Engineer/Inspector shall approve all application and removal procedures of fixed bases.



LONGITUDINAL CHANNELIZING DEVICES (LCD)

1. LCDs are crashworthy, lightweight, deformable devices that are highly visible, have good target value and can be connected together. They are not designed to contain or redirect a vehicle on impact.
2. LCDs may be used instead of a line of cones or drums.
3. LCDs shall be placed in accordance to application and installation requirements specific to the device, and used only when shown on the CWZTCD list.
4. LCDs should not be used to provide positive protection for obstacles, pedestrians or workers.
5. LCDs shall be supplemented with retroreflective delineation as required for temporary barriers on BC(7) when placed roughly parallel to the travel lanes.
6. LCDs used as barricades placed perpendicular to traffic should have at least one row of reflective sheeting meeting the requirements for barricade rails as shown on BC(10). Place reflective sheeting near the top of the LCD along the full length of the device.

WATER BALLASTED SYSTEMS USED AS BARRIERS

1. Water ballasted systems used as barriers shall not be used solely to channelize road users, but also to protect the work space per the appropriate Manual for Assessing Safety Hardware (MASH) crashworthiness requirements based on roadway speed and barrier application.
2. Water ballasted systems used to channelize vehicular traffic shall be supplemented with retroreflective delineation or channelizing devices to improve daytime/nighttime visibility. They may also be supplemented with pavement markings.
3. Water ballasted systems used as barriers shall be placed in accordance to application and installation requirements specific to the device, and used only when shown on the CWZTCD list.
4. Water ballasted systems used as barriers should not be used for a merging taper except in low speed (less than 45 MPH) urban areas. When used on a taper in a low speed urban area, the taper shall be delineated and the taper length should be designed to optimize road user operations considering the available geometric conditions.
5. When water ballasted systems used as barriers have blunt ends exposed to traffic, they should be attenuated as per manufacturer recommendations or flared to a point outside the clear zone.

If used to channelize pedestrians, longitudinal channelizing devices or water ballasted systems must have a continuous detectable bottom for users of long canes and the top of the unit shall not be less than 32 inches in height.

HOLLOW OR WATER BALLASTED SYSTEMS USED AS LONGITUDINAL CHANNELIZING DEVICES OR BARRIERS

Posted Speed	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices On a Taper	On a Tangent
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'
35		205'	225'	245'	35'	70'
40		265'	295'	320'	40'	80'
45	L = WS	450'	495'	540'	45'	90'
50		500'	550'	600'	50'	100'
55		550'	605'	660'	55'	110'
60		600'	660'	720'	60'	120'
65		650'	715'	780'	65'	130'
70		700'	770'	840'	70'	140'
75		750'	825'	900'	75'	150'
80		800'	880'	960'	80'	160'

** Taper lengths have been rounded off.
L=Length of Taper (FT.) W=Width of Offset (FT.)
S=Posted Speed (MPH)

SUGGESTED MAXIMUM SPACING OF CHANNELIZING DEVICES AND MINIMUM DESIRABLE TAPER LENGTHS

Texas Department of Transportation | Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(9)-21

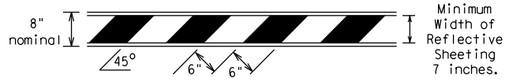
FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS	0904	00	223	VARIOUS
9-07 8-14	DIST	COUNTY		SHEET NO.
7-13 5-21	AMA	POTTER		15

DATE: 9/20/2023 7:03:54 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\02_TRAF_CONT\STD\bc-21.dgn

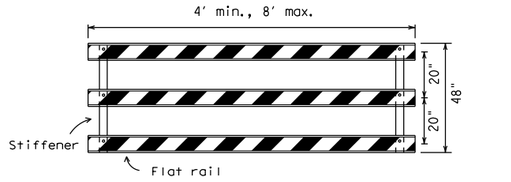
TYPE 3 BARRICADES

1. Refer to the Compliant Work Zone Traffic Control Devices List (CWZTCD) for details of the Type 3 Barricades and a list of all materials used in the construction of Type 3 Barricades.
2. Type 3 Barricades shall be used at each end of construction projects closed to all traffic.
3. 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 turns are provided, the chevron striping may slope downward in both directions from the center of the barricade. Where no turns are provided at a closed road, striping should slope downward in both directions toward the center of roadway.
4. Striping of rails, 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.
5. Identification markings may be shown only on the back of the barricade rails. The maximum height of letters and/or company logos used for identification shall be 1".
6. Barricades shall not be placed parallel to traffic unless an adequate clear zone is provided.
7. Warning lights shall NOT be installed on barricades.
8. Where barricades require the use of weights to keep from turning over, the use of sandbags with dry, cohesionless sand is recommended. The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight. Sand bags shall not be stacked in a manner that covers any portion of a barricade rails reflective sheeting. Rock, concrete, iron, steel or other solid objects will NOT be permitted. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs. Sandbags shall be made of a durable material that tears upon vehicular impact. Rubber (such as tire inner tubes) shall not be used for sandbags. Sandbags shall only be placed along or upon the base supports of the device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners.
9. Sheeting for barricades shall be retroreflective Type A or Type B conforming to Departmental Material Specification DMS-8300 unless otherwise noted.

Barricades shall NOT be used as a sign support.



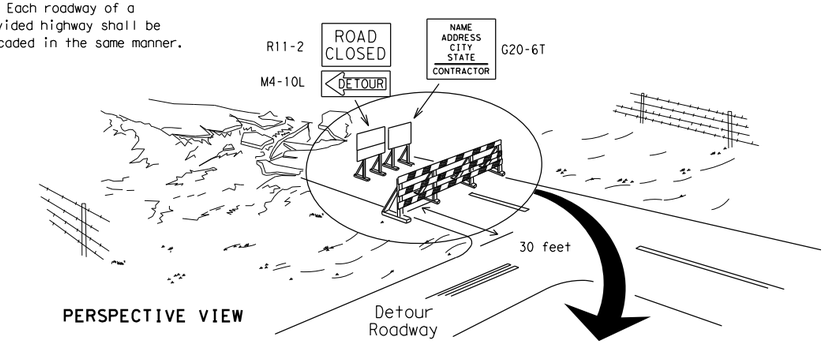
TYPICAL STRIPING DETAIL FOR BARRICADE RAIL



Stiffener may be inside or outside of support, but no more than 2 stiffeners shall be allowed on one barricade.

TYPICAL PANEL DETAIL FOR SKID OR POST TYPE BARRICADES

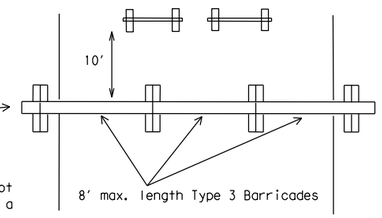
Each roadway of a divided highway shall be barricaded in the same manner.



PERSPECTIVE VIEW

The three rails on Type 3 barricades shall be reflectorized orange and reflective white stripes on one side facing one-way traffic and both sides for two-way traffic.

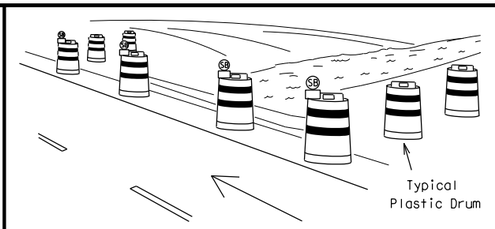
Barricade striping should slant downward in the direction of detour.



PLAN VIEW

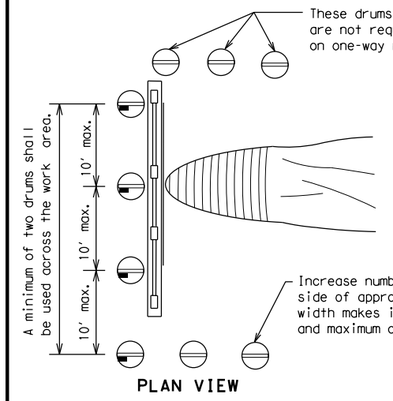
1. Signs should be mounted on independent supports at a 7 foot mounting height in center of roadway. The signs should be a minimum of 10 feet behind Type 3 Barricades.
2. Advance signing shall be as specified elsewhere in the plans.

TYPE 3 BARRICADE (POST AND SKID) TYPICAL APPLICATION



PERSPECTIVE VIEW

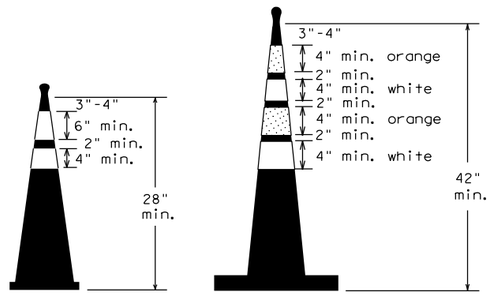
1. Where positive redirectional capability is provided, drums may be omitted.
2. Plastic construction fencing may be used with drums for safety as required in the plans.
3. Vertical Panels on flexible support may be substituted for drums when the shoulder width is less than 4 feet.
4. When the shoulder width is greater than 12 feet, steady-burn lights may be omitted if drums are used.
5. Drums must extend the length of the culvert widening.



PLAN VIEW

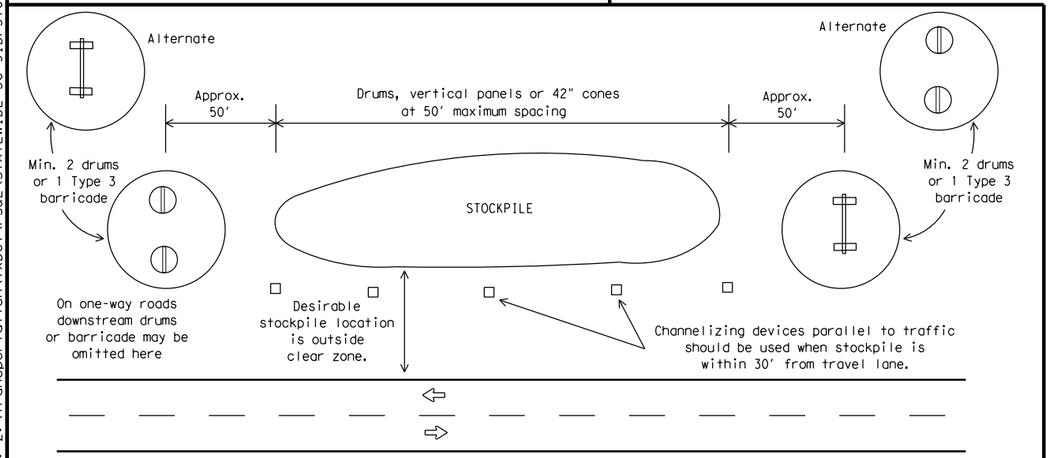
LEGEND	
	Plastic drum
	Plastic drum with steady burn light or yellow warning reflector
SB	Steady burn warning light or yellow warning reflector

CULVERT WIDENING OR OTHER ISOLATED WORK WITHIN THE PROJECT LIMITS



28" Cones shall have a minimum weight of 9 1/2 lbs.
42" 2-piece cones shall have a minimum weight of 30 lbs. including base.

1. Traffic cones and tubular markers shall be predominantly orange, and meet the height and weight requirements shown above.
2. One-piece cones have the body and base of the cone molded in one consolidated unit. Two-piece cones have a cone shaped body and a separate rubber base, or ballast, that is added to keep the device upright and in place.
3. Two-piece cones may have a handle or loop extending up to 8" above the minimum height shown, in order to aid in retrieving the device.
4. Cones or tubular markers shall have white or white and orange reflective bands as shown above. The reflective bands shall have a smooth, sealed outer surface and meet the requirements of Departmental Material Specification DMS-8300 Type A or Type B.
5. 28" cones and tubular markers are generally suitable for short duration and short-term stationary work as defined on BC(4). These should not be used for intermediate-term or long-term stationary work unless personnel is on-site to maintain them in their proper upright position.
6. 42" two-piece cones, vertical panels or drums are suitable for all work zone durations.
7. Cones or tubular markers used on each project should be of the same size and shape.



TRAFFIC CONTROL FOR MATERIAL STOCKPILES

Texas Department of Transportation

Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(10)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS	0904	00	223	VARIOUS
9-07 8-14	DIST	COUNTY		SHEET NO.
7-13 5-21	AMA	POTTER		16

DATE: 9/20/2023 7:03:55 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9\DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\02_TRAF_CONT\STD\bc-21.dgn

WORK ZONE PAVEMENT MARKINGS

GENERAL

1. The Contractor shall be responsible for maintaining work zone and existing pavement markings, in accordance with the standard specifications and special provisions, on all roadways open to traffic within the CSJ limits unless otherwise stated in the plans.
2. Color, patterns and dimensions shall be in conformance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
3. Additional supplemental pavement marking details may be found in the plans or specifications.
4. Pavement markings shall be installed in accordance with the TMUTCD and as shown on the plans.
5. When short term markings are required on the plans, short term markings shall conform with the TMUTCD, the plans and details as shown on the Standard Plan Sheet WZ(STPM).
6. When standard pavement markings are not in place and the roadway is opened to traffic, DO NOT PASS signs shall be erected to mark the beginning of the sections where passing is prohibited and PASS WITH CARE signs at the beginning of sections where passing is permitted.
7. All work zone pavement markings shall be installed in accordance with Item 662, "Work Zone Pavement Markings."

RAISED PAVEMENT MARKERS

1. Raised pavement markers are to be placed according to the patterns on BC(12).
2. All raised pavement markers used for work zone markings shall meet the requirements of Item 672, "RAISED PAVEMENT MARKERS" and Departmental Material Specification DMS-4200 or DMS-4300.

PREFABRICATED PAVEMENT MARKINGS

1. Removable prefabricated pavement markings shall meet the requirements of DMS-8241.
2. Non-removable prefabricated pavement markings (foil back) shall meet the requirements of DMS-8240.

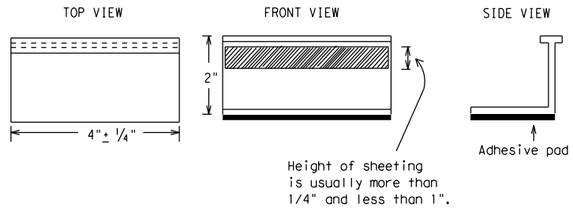
MAINTAINING WORK ZONE PAVEMENT MARKINGS

1. The Contractor will be responsible for maintaining work zone pavement markings within the work limits.
2. Work zone pavement markings shall be inspected in accordance with the frequency and reporting requirements of work zone traffic control device inspections as required by Form 599.
3. The markings should provide a visible reference for a minimum distance of 300 feet during normal daylight hours and 160 feet when illuminated by automobile low-beam headlights at night, unless sight distance is restricted by roadway geometrics.
4. Markings failing to meet this criteria within the first 30 days after placement shall be replaced at the expense of the Contractor as per Specification Item 662.

REMOVAL OF PAVEMENT MARKINGS

1. Pavement markings that are no longer applicable, could create confusion or direct a motorist toward or into the closed portion of the roadway shall be removed or obliterated before the roadway is opened to traffic.
2. The above shall not apply to detours in place for less than three days, where flaggers and/or sufficient channelizing devices are used in lieu of markings to outline the detour route.
3. Pavement markings shall be removed to the fullest extent possible, so as not to leave a discernable marking. This shall be by any method approved by TxDOT Specification Item 677 for "Eliminating Existing Pavement Markings and Markers".
4. The removal of pavement markings may require resurfacing or seal coating portions of the roadway as described in Item 677.
5. Subject to the approval of the Engineer, any method that proves to be successful on a particular type pavement may be used.
6. Blast cleaning may be used but will not be required unless specifically shown in the plans.
7. Over-painting of the markings SHALL NOT BE permitted.
8. Removal of raised pavement markers shall be as directed by the Engineer.
9. Removal of existing pavement markings and markers will be paid for directly in accordance with Item 677, "ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS," unless otherwise stated in the plans.
10. Black-out marking tape may be used to cover conflicting existing markings for periods less than two weeks when approved by the Engineer.

Temporary Flexible-Reflective Roadway Marker Tabs



STAPLES OR NAILS SHALL NOT BE USED TO SECURE TEMPORARY FLEXIBLE-REFLECTIVE ROADWAY MARKER TABS TO THE PAVEMENT SURFACE

1. Temporary flexible-reflective roadway marker tabs used as guidemarks shall meet the requirements of DMS-8242.
2. Tabs detailed on this sheet are to be inspected and accepted by the Engineer or designated representative. Sampling and testing is not normally required, however at the option of the Engineer, either "A" or "B" below may be imposed to assure quality before placement on the roadway.
   A. Select five (5) or more tabs at random from each lot or shipment and submit to the Construction Division, Materials and Pavement Section to determine specification compliance.
   B. Select five (5) tabs and perform the following test. Affix five (5) tabs at 24 inch intervals on an asphaltic pavement in a straight line. Using a medium size passenger vehicle or pickup, run over the markers with the front and rear tires at a speed of 35 to 40 miles per hour, four (4) times in each direction. No more than one (1) out of the five (5) reflective surfaces shall be lost or displaced as a result of this test.
3. Small design variances may be noted between tab manufacturers.
4. See Standard Sheet WZ(STPM) for tab placement on new pavements. See Standard Sheet TCP(7-1) for tab placement on seal coat work.

RAISED PAVEMENT MARKERS USED AS GUIDEMARKS

1. Raised pavement markers used as guidemarks shall be from the approved product list, and meet the requirements of DMS-4200.
2. All temporary construction raised pavement markers provided on a project shall be of the same manufacturer.
3. Adhesive for guidemarks shall be bituminous material hot applied or butyl rubber pad for all surfaces, or thermoplastic for concrete surfaces.

Guidemarks shall be designated as:
YELLOW - (two amber reflective surfaces with yellow body).
WHITE - (one silver reflective surface with white body).

DEPARTMENTAL MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
TRAFFIC BUTTONS	DMS-4300
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240
TEMPORARY REMOVABLE, PREFABRICATED PAVEMENT MARKINGS	DMS-8241
TEMPORARY FLEXIBLE, REFLECTIVE ROADWAY MARKER TABS	DMS-8242

A list of prequalified reflective raised pavement markers, non-reflective traffic buttons, roadway marker tabs and other pavement markings can be found at the Material Producer List web address shown on BC(1).

Texas Department of Transportation

Traffic Safety Division Standard

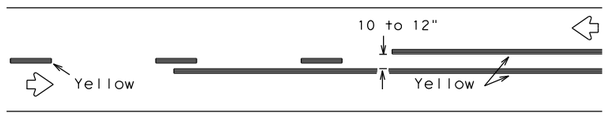
BARRICADE AND CONSTRUCTION PAVEMENT MARKINGS

BC(11)-21

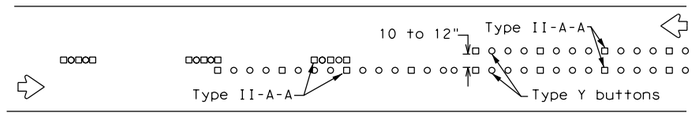
FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT February 1998	CONT	SECT	JOB	HIGHWAY
REVISIONS 2-98 9-07 5-21 1-02 7-13 11-02 8-14	0904	00	223	VARIOUS
	DIST	COUNTY		SHEET NO.
	AMA	POTTER		17

DATE: 9/20/2023 7:03:55 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP510\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\02_TRAF_CONT\STD\bc-21.dgn

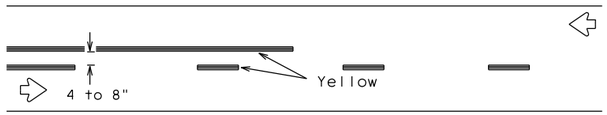
PAVEMENT MARKING PATTERNS



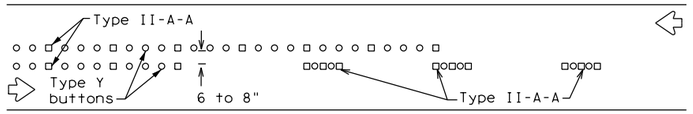
REFLECTORIZED PAVEMENT MARKINGS - PATTERN A



RAISED PAVEMENT MARKERS - PATTERN A



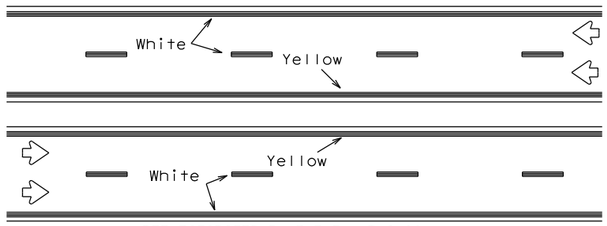
REFLECTORIZED PAVEMENT MARKINGS - PATTERN B



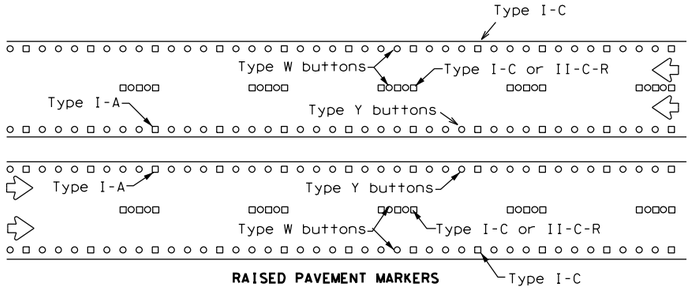
RAISED PAVEMENT MARKERS - PATTERN B

Pattern A is the TXDOT Standard, however Pattern B may be used if approved by the Engineer.
Prefabricated markings may be substituted for reflectorized pavement markings.

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



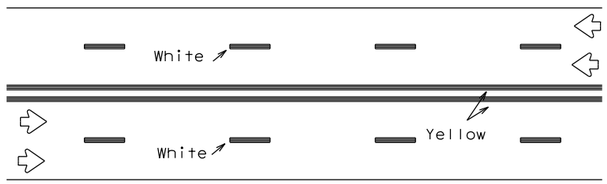
REFLECTORIZED PAVEMENT MARKINGS



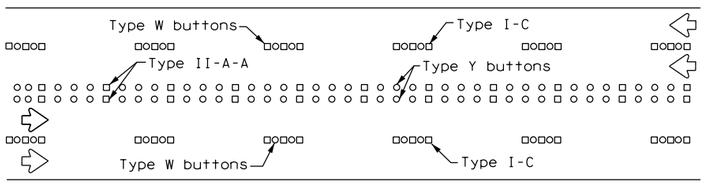
RAISED PAVEMENT MARKERS

Prefabricated markings may be substituted for reflectorized pavement markings.

EDGE & LANE LINES FOR DIVIDED HIGHWAY



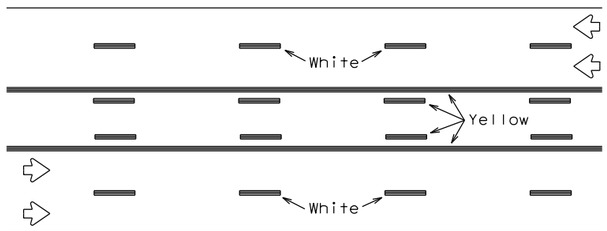
REFLECTORIZED PAVEMENT MARKINGS



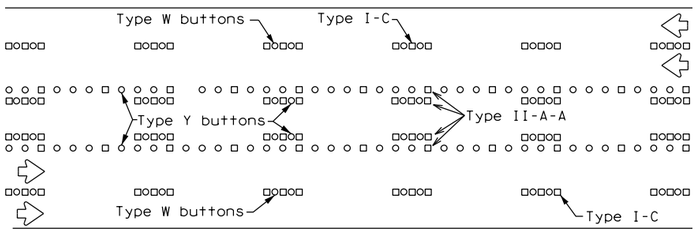
RAISED PAVEMENT MARKERS

Prefabricated markings may be substituted for reflectorized pavement markings.

LANE & CENTER LINES FOR MULTILANE UNDIVIDED HIGHWAYS



REFLECTORIZED PAVEMENT MARKINGS



RAISED PAVEMENT MARKERS

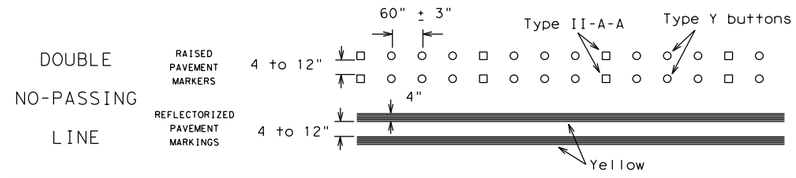
Prefabricated markings may be substituted for reflectorized pavement markings.

TWO-WAY LEFT TURN LANE

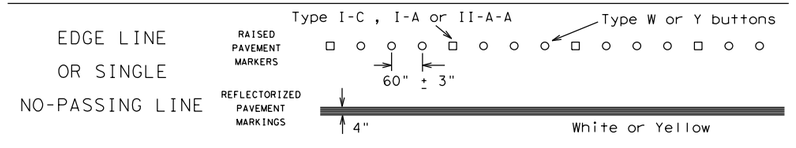
STANDARD WORK ZONE PAVEMENT MARKINGS DETAILS

SOLID LINES

DOUBLE NO-PASSING LINE

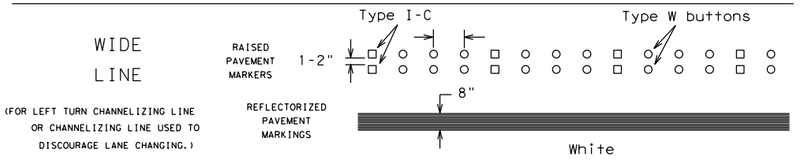


EDGE LINE OR SINGLE NO-PASSING LINE



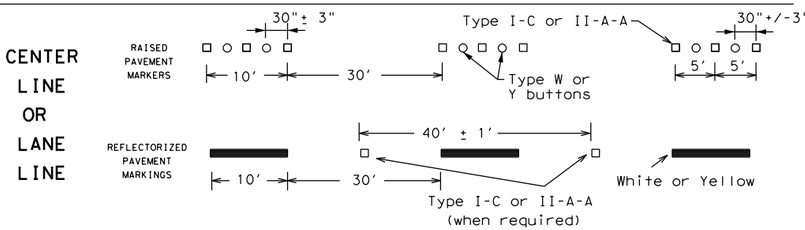
WIDE LINE

(FOR LEFT TURN CHANNELIZING LINE OR CHANNELIZING LINE USED TO DISCOURAGE LANE CHANGING.)

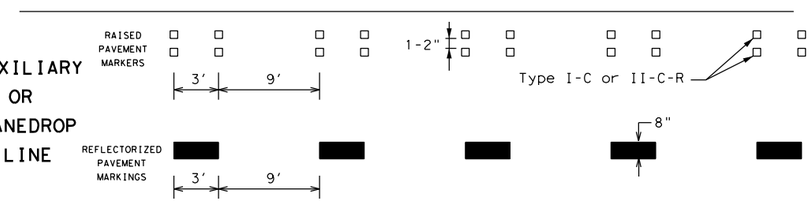


BROKEN LINES

CENTER LINE OR LANE LINE

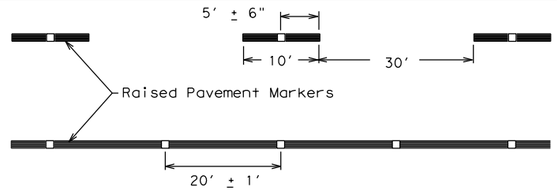


AUXILIARY OR LANEDROP LINE



REMOVABLE MARKINGS WITH RAISED PAVEMENT MARKERS

If raised pavement markers are used to supplement REMOVABLE markings, the markers shall be applied to the top of the tape at the approximate mid length of tape used for broken lines or at 20 foot spacing for solid lines. This allows an easier removal of raised pavement markers and tape.



Centerline only - not to be used on edge lines

Raised pavement markers used as standard pavement markings shall be from the approved products list and meet the requirements of Item 672 "RAISED PAVEMENT MARKERS."

Texas Department of Transportation

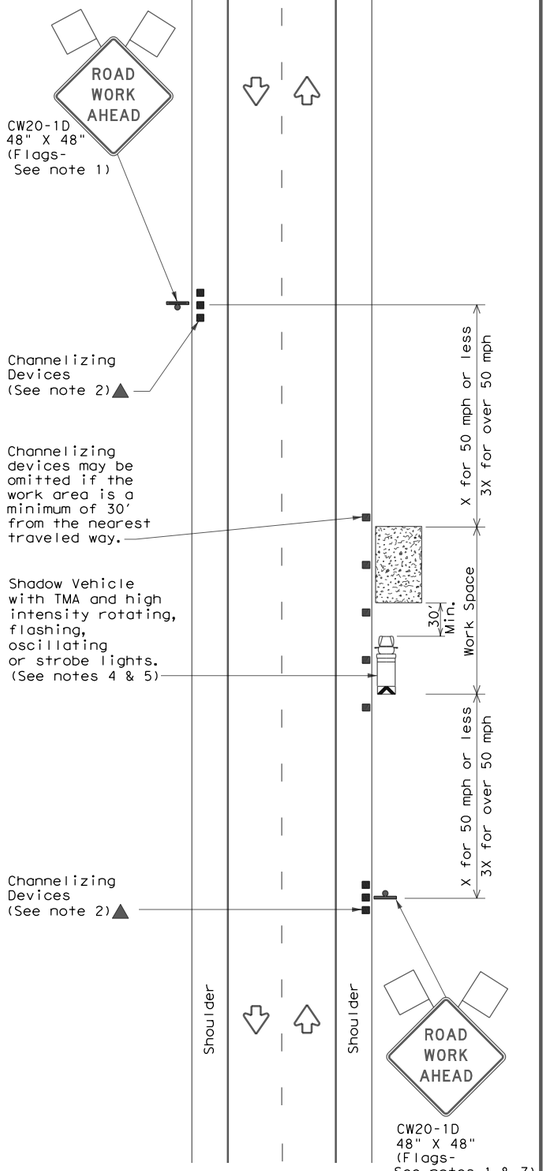
Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION PAVEMENT MARKING PATTERNS

BC(12)-21

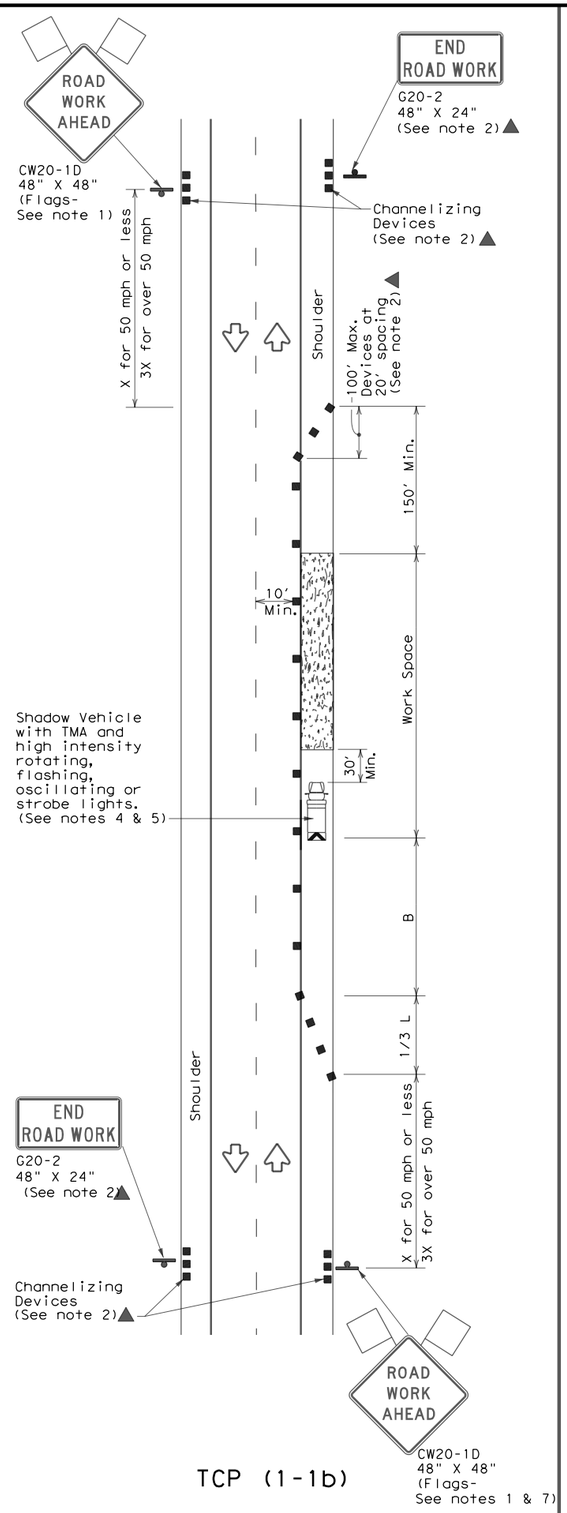
FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT February 1998	CONT	SECT	JOB	HIGHWAY
REVISIONS 1-97 9-07 5-21 2-98 7-13 11-02 8-14	0904	00	223	VARIOUS
	DIST	COUNTY		SHEET NO.
	AMA	POTTER		18

DATE: 9/20/2023 7:03:55 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9\DP5101\WA4-TxDOT Amarillo\GRAPHICS\TRACKADE



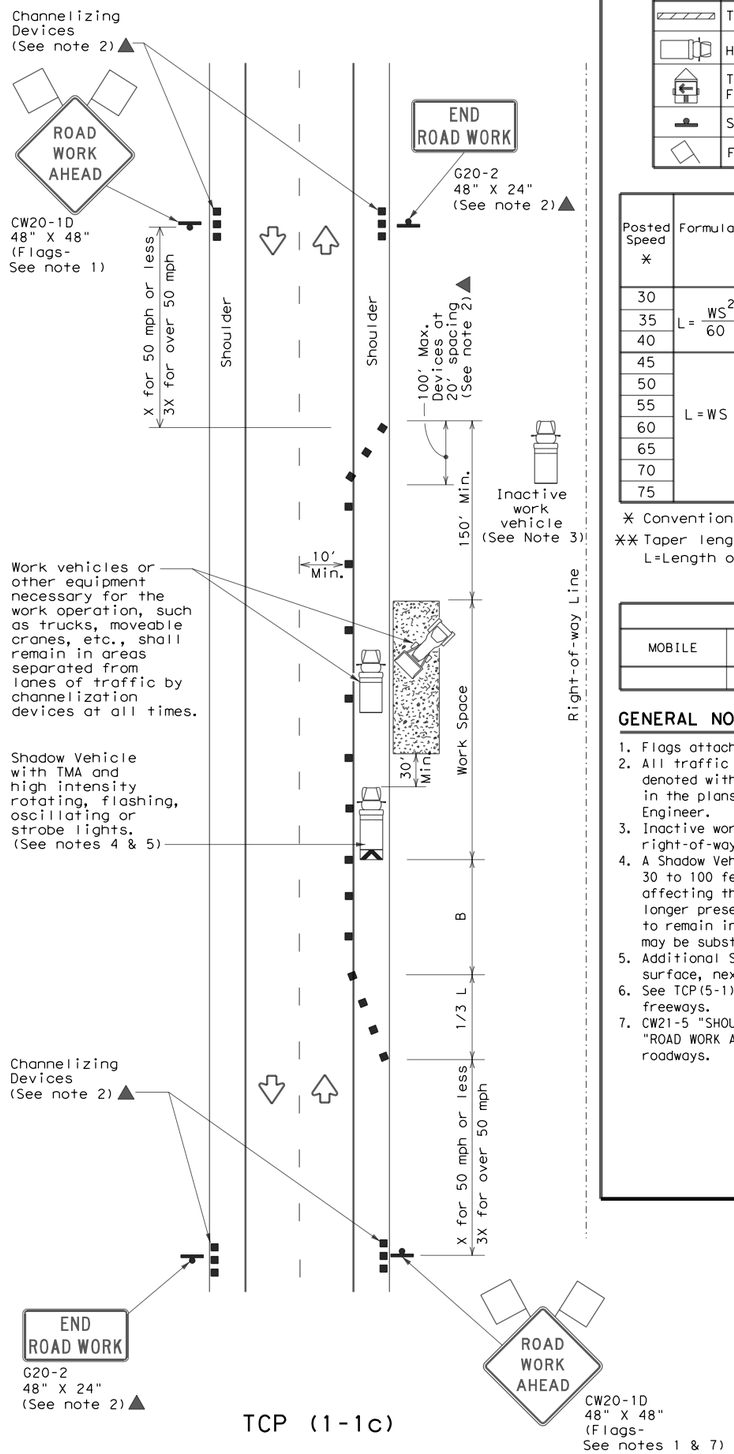
TCP (1-1a)

WORK SPACE NEAR SHOULDER
Conventional Roads



TCP (1-1b)

WORK SPACE ON SHOULDER
Conventional Roads



TCP (1-1c)

WORK VEHICLES ON SHOULDER
Conventional Roads

LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
30	$L=\frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L=WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

* Conventional Roads Only

** Taper lengths have been rounded off.
L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE				
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓		

GENERAL NOTES

1. Flags attached to signs where shown are REQUIRED.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
3. Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
4. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.
6. See TCP(5-1)for shoulder work on divided highways, expressways and freeways.
7. CW21-5 "SHOULDER WORK" signs may be used in place of CW20-1D "ROAD WORK AHEAD" signs for shoulder work on conventional roadways.

Texas Department of Transportation

Traffic Operations Division Standard

TRAFFIC CONTROL PLAN CONVENTIONAL ROAD SHOULDER WORK

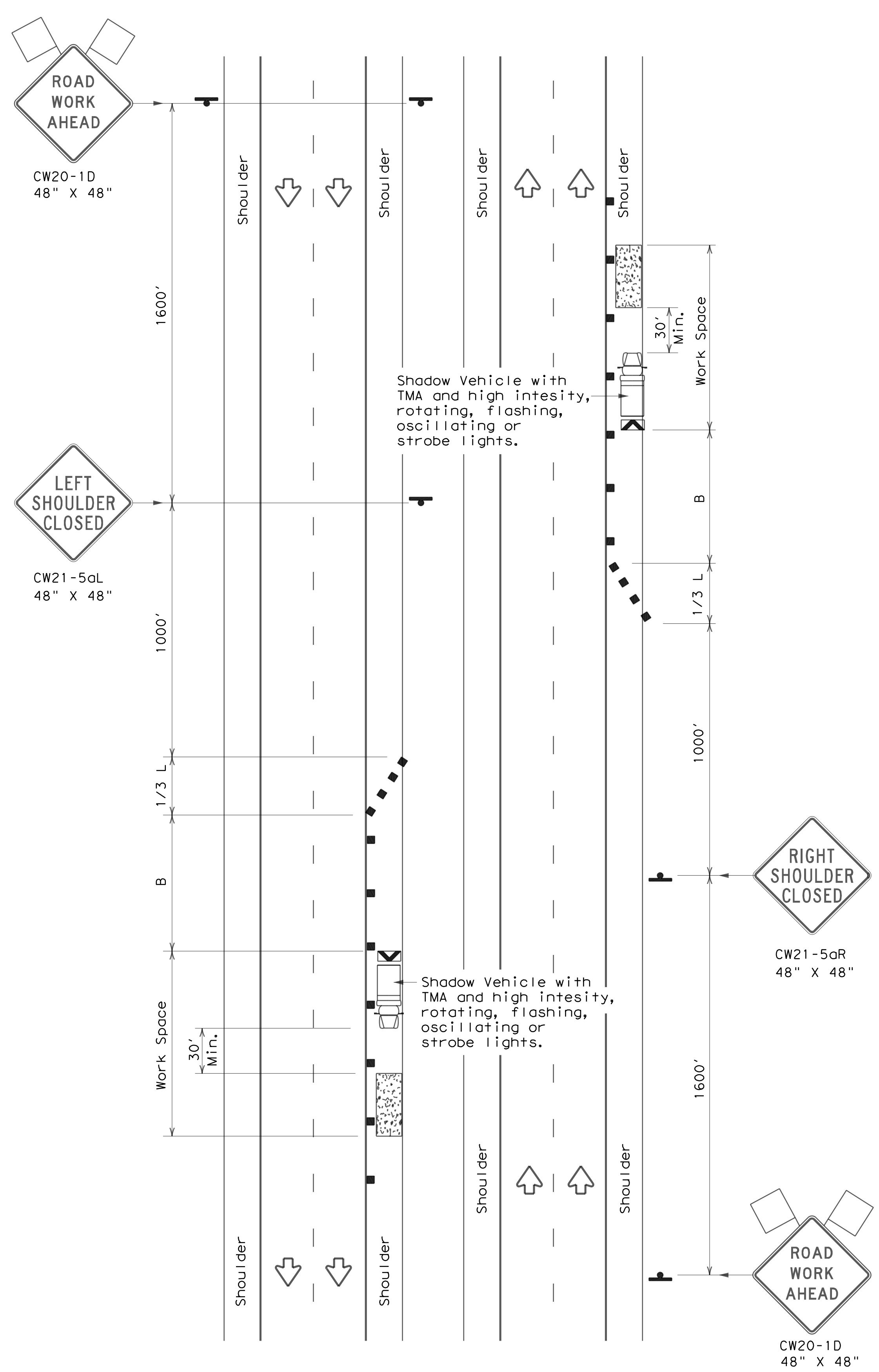
TCP(1-1)-18

FILE: tcp1-1-18.dgn	DN:	CK:	DW:	CK:
© TxDOT December 1985	CONT	SECT	JOB	HIGHWAY
REVISIONS 2-94 4-98 8-95 2-12 1-97 2-18	0904	00	223	VARIOUS
	DIST	COUNTY		SHEET NO.
	AMA	POTTER		19

151

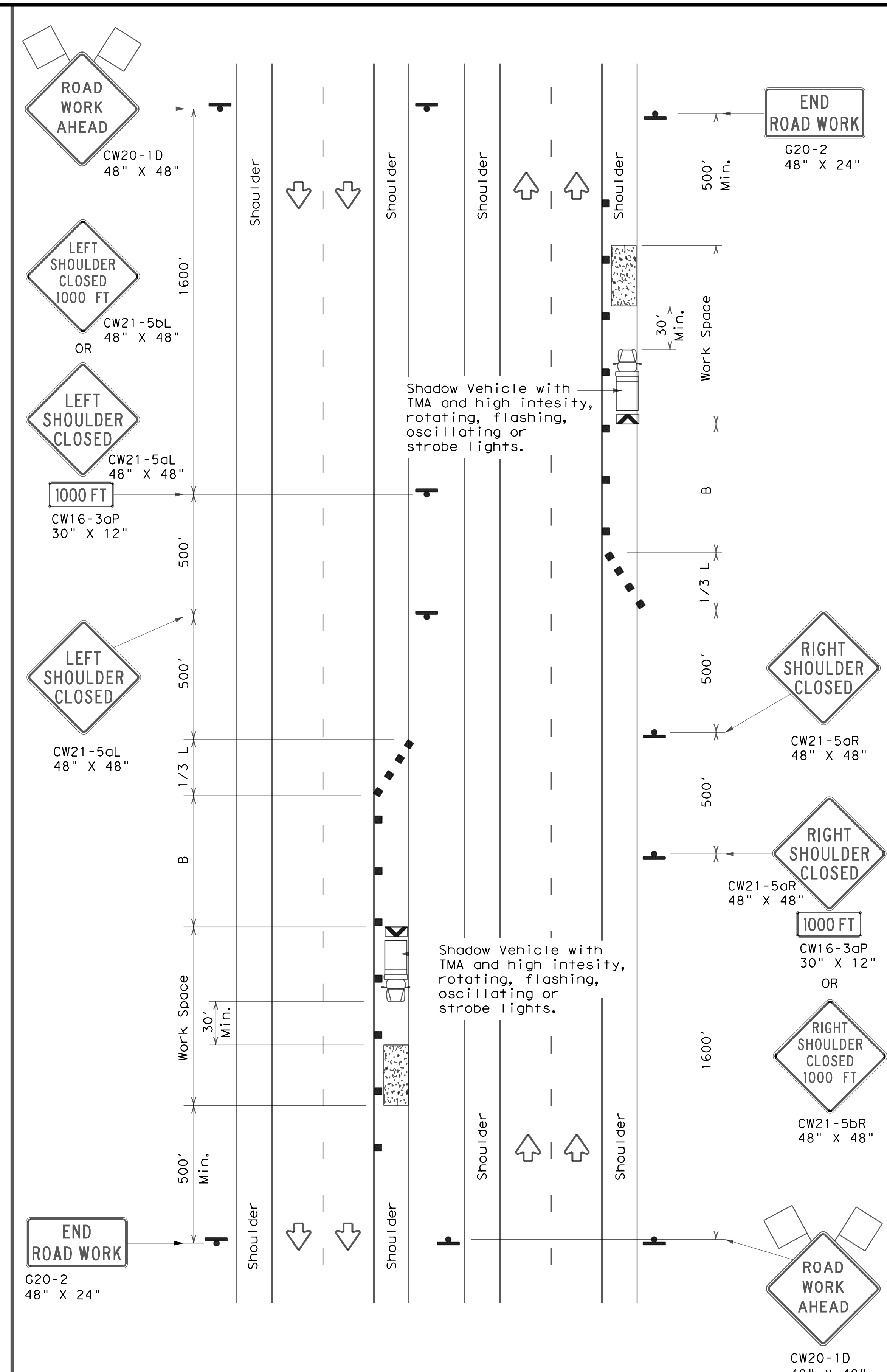
DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE: 9/20/2023 7:03:55 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECT\...



TCP (5-1a)

WORK AREA ON SHOULDER



TCP (5-1b)

WORK AREA ON SHOULDER

LEGEND

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

Posted Speed *	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	90'
35		205'	225'	245'	35'	70'	120'
40		265'	295'	320'	40'	80'	155'
45	L = WS	450'	495'	540'	45'	90'	195'
50		500'	550'	600'	50'	100'	240'
55		550'	605'	660'	55'	110'	295'
60		600'	660'	720'	60'	120'	350'
65		650'	715'	780'	65'	130'	410'
70		700'	770'	840'	70'	140'	475'
75		750'	825'	900'	75'	150'	540'
80		800'	880'	960'	80'	160'	615'

* Conventional Roads Only
** Taper lengths have been rounded off.
L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE

MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	TCP(5-1a)	TCP(5-1b)	TCP(5-1b)	

GENERAL NOTES

1. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30' to 100' in advance of the area of crew exposure without adversely effecting the performance or quality of the work. Type 3 barricades or drums may be substituted when workers on foot are no longer present when approved by the Engineer.

2. 28" tall or taller one-piece cones will be allowed only for Short Duration or Short Term stationary operations when workers are present to maintain the devices upright and in proper location. Intermediate Term stationary work areas should use Drums, Vertical Panels or 42" tall two-piece cones.

Texas Department of Transportation

Traffic Operations Division Standard

TRAFFIC CONTROL PLAN SHOULDER WORK FOR FREEWAYS / EXPRESSWAYS

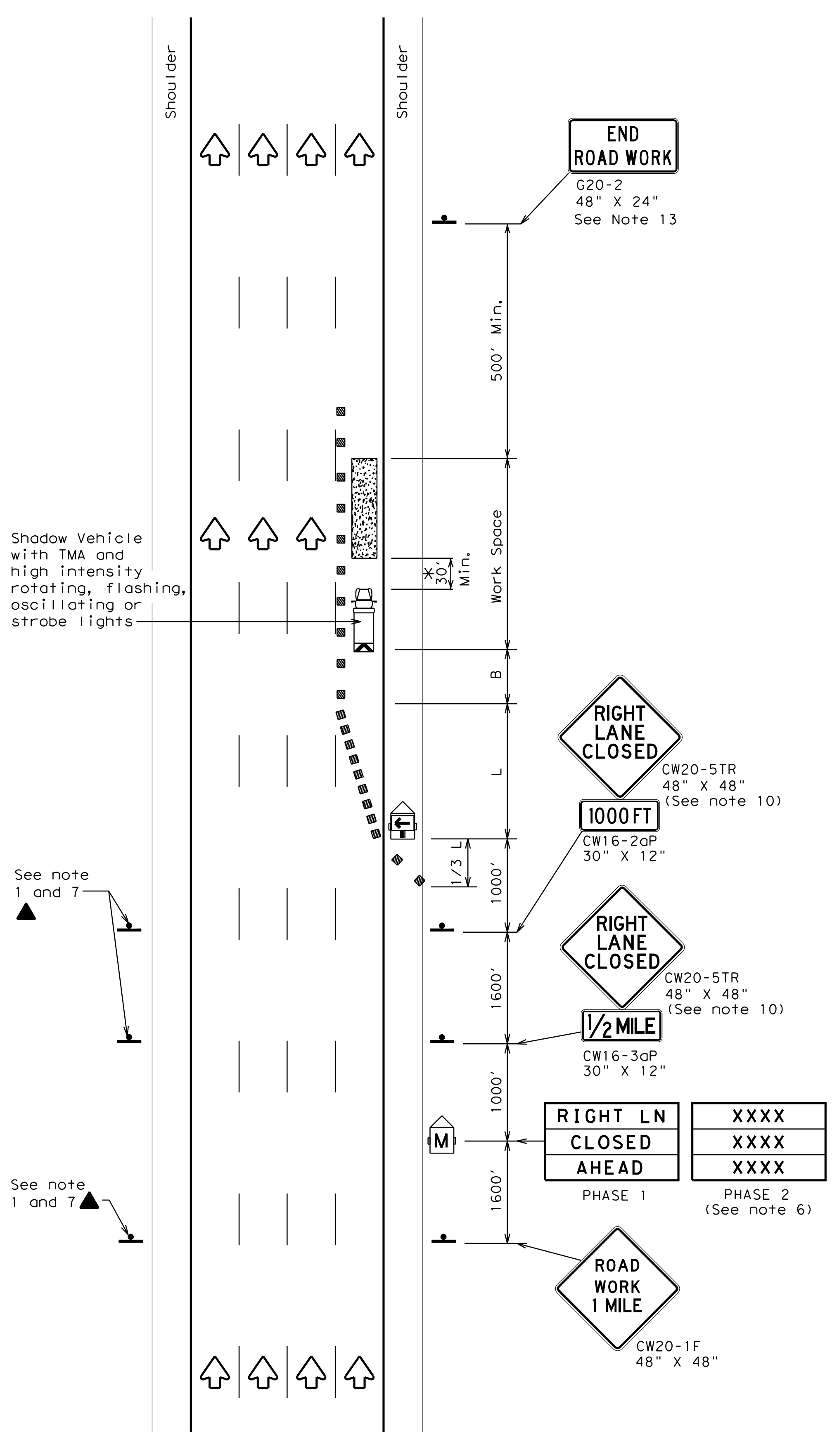
TCP(5-1)-18

FILE: tcp5-1-18.dgn	DN:	CK:	DW:	CK:
©TxDOT February 2012	CONT	SECT	JOB	HIGHWAY
REVISIONS	0904	00	223	VARIOUS
2-18	DIST		COUNTY	SHEET NO.
	AMA		POTTER	20

190

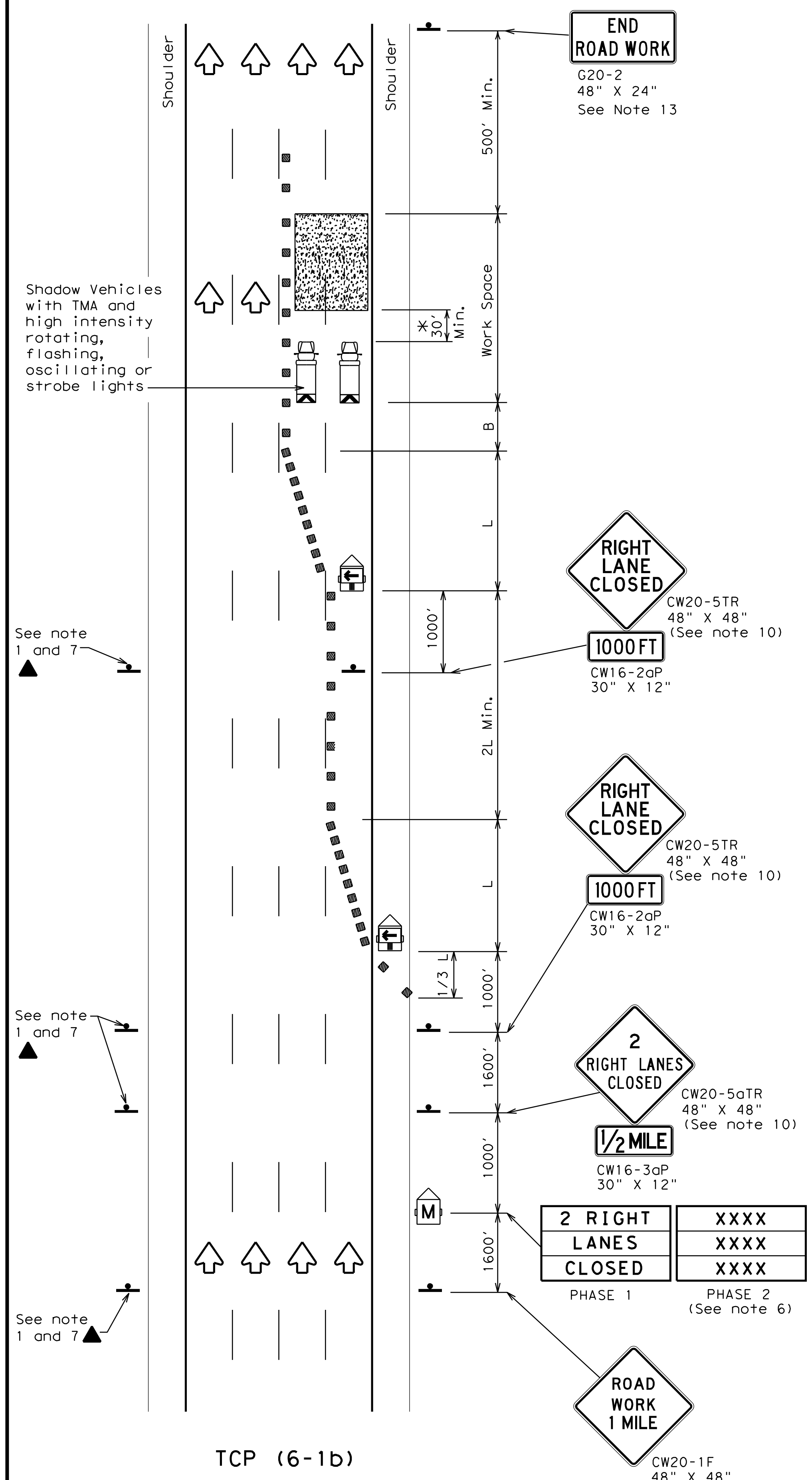
DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE: 9/20/2023 7:03:56 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE



TCP (6-1a)

TYPICAL FREEWAY ONE LANE CLOSURE



TCP (6-1b)

TYPICAL FREEWAY TWO LANE CLOSURE

LEGEND

Symbol	Description	Symbol	Description
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed	Formula	Minimum Desirable Taper Lengths "L" **			Suggested Maximum Spacing of Channelizing Devices		Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	
45	L=WS	450'	495'	540'	45'	90'	195'
50		500'	550'	600'	50'	100'	240'
55		550'	605'	660'	55'	110'	295'
60		600'	660'	720'	60'	120'	350'
65		650'	715'	780'	65'	130'	410'
70		700'	770'	840'	70'	140'	475'
75		750'	825'	900'	75'	150'	540'
80		800'	880'	960'	80'	160'	615'

** Taper lengths have been rounded off.
L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE				
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓	✓	

GENERAL NOTES

1. All traffic control devices illustrated are REQUIRED. Devices denoted with the triangle symbol may be omitted when stated elsewhere in the plans.
2. Drums or 42"cones are the typical channelizing devices. For Intermediate Term Stationary work, drums shall be used on tapers with drums or 42" cones used on tangent sections. Other channelizing devices may be used as directed by the Engineer.
3. All construction signs and barricades placed during any phase of work shall remain in place until removal is approved by the Engineer.
4. The Engineer may direct the Contractor to furnish additional signs and barricades as required to maintain traffic flow, detours and motorist safety during construction.
5. Static message boards or changeable message signs stating the date and duration of ramp or freeway lane closures shall be placed a minimum of seven (7) calendar days in advance of the actual closure.
6. Phase 2 of the PCMS message should include appropriate information formatted as shown on BC(6), such as "MERGE LEFT," recommended advisory speed, delay information, or other specific warnings.
7. Duplicate construction warning signs should be erected on the medians side of freeways where median width will permit and traffic volume justifies the signing.
8. The number of closed lanes may be increased provided the spacing of traffic control devices, taper lengths and tangent lengths meet the requirements of the TMUTCD.
9. Warning signs for intermediate term stationary work should be mounted at 7' to the bottom of the sign.
10. Warning signs shown shall be appropriately altered for left lane closures. When signs are mounted at 1' height for short term stationary or short duration work, sign versions shown in the SHSD for Texas with distances on the sign face rather than mounted on a plaque below the sign may be used.
11. When possible, PCMS units should be located in advance of the last available exit ramp prior to the lane closure to allow motorists an alternate route. They may also be relocated to improve advance warning in case of unanticipated queuing or congestion.
12. For Intermediate Term Stationary work at night, floodlights should be used to illuminate the work area and equipment crossings. Floodlights shall not produce a disabling glare condition for road users or workers.
13. The END ROAD WORK (G20-2) sign may be omitted when it conflicts with G20-2 signs already in place on the project.

* A shadow vehicle equipped with a Truck Mounted Attenuator is typically required. A shadow vehicle equipped with a TMA shall be used if it can be positioned 30' to 100' in advance of the area of crew exposure without adversely affecting the work performance.

Texas Department of Transportation
Traffic Operations Division Standard

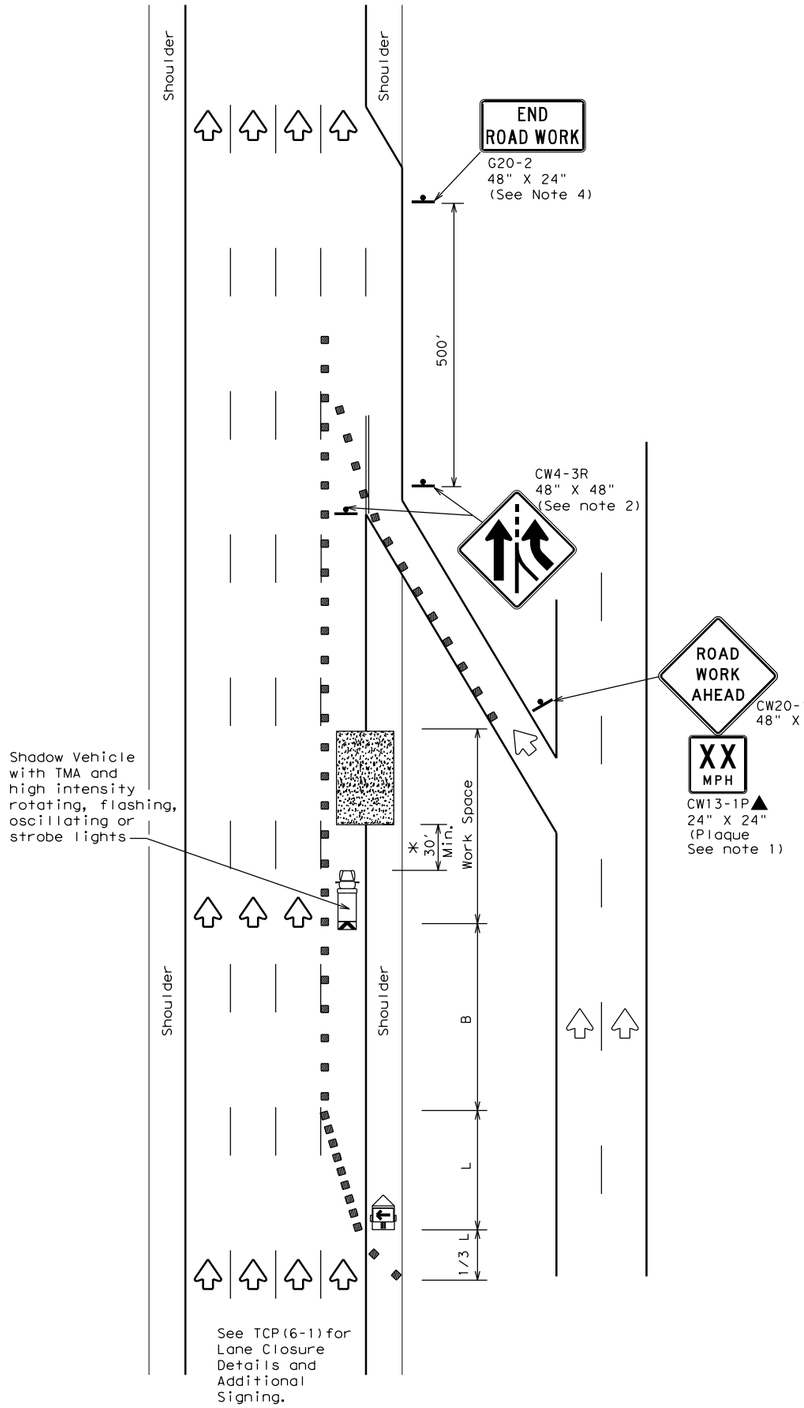
TRAFFIC CONTROL PLAN FREEWAY LANE CLOSURES

TCP(6-1)-12

FILE:	tcp6-1.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT	February 1998	CONT	SECT	JOB	HIGHWAY
REVISIONS 8-12		0904	00	223	VARIOUS
		DIST	COUNTY		SHEET NO.
		AMA	POTTER		21

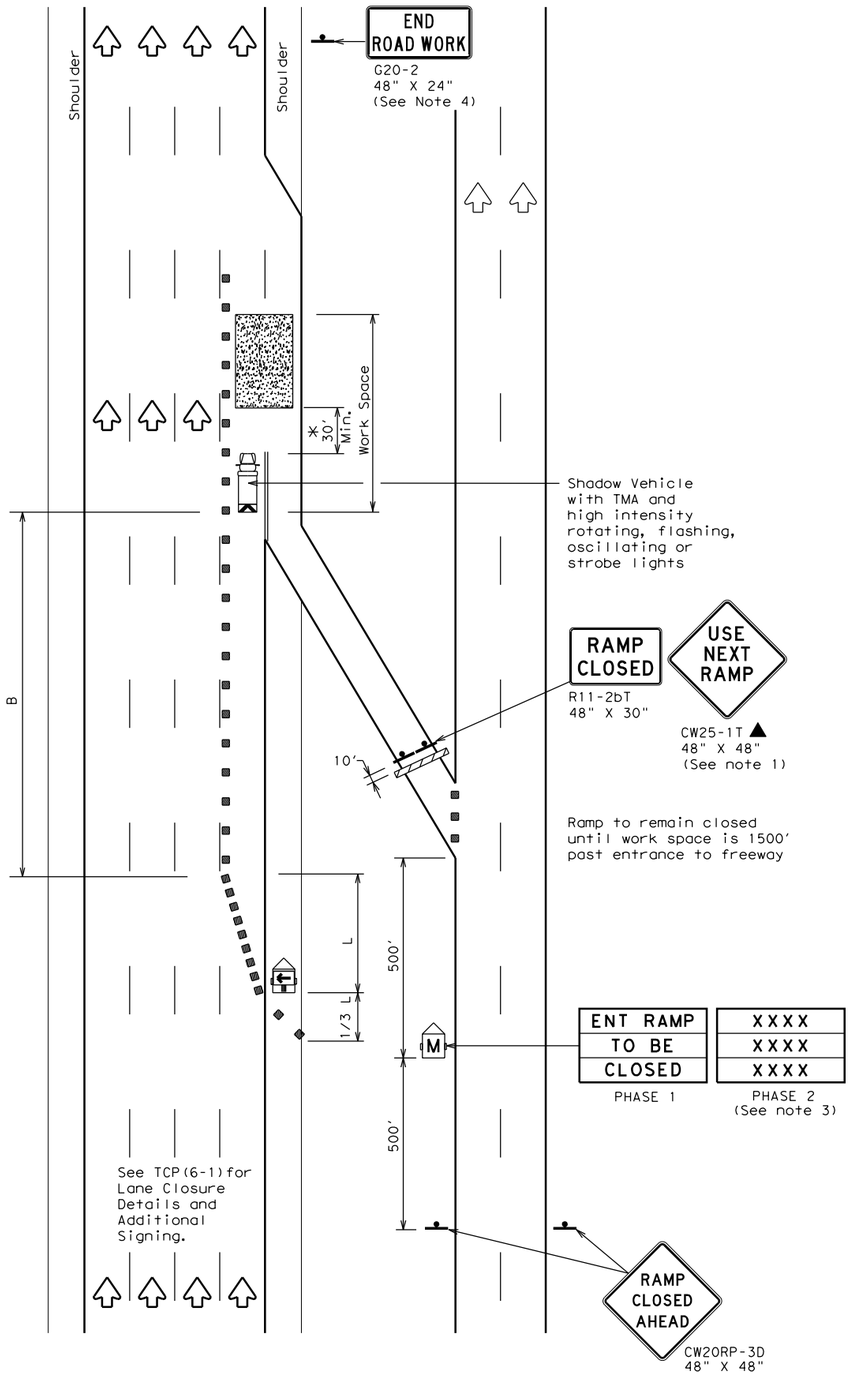
201

DATE: 9/20/2023 7:03:56 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP510\WA4-TxDOT Amarillo\PROJECT\TRAF_CONTROL\TCP6-2.dgn



TCP (6-2a)

ENTRANCE RAMP OPEN
WORK WITHIN 500' OF RAMP



TCP (6-2b)

ENTRANCE RAMP CLOSED

LEGEND

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

Posted Speed	Formula	Minimum Desirable Taper Lengths "L" ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices: On a Taper	On a Tangent	Suggested Longitudinal Buffer Space "B"
45	L=WS	450'	495'	540'	45'	90'	195'
50		500'	550'	600'	50'	100'	240'
55		550'	605'	660'	55'	110'	295'
60		600'	660'	720'	60'	120'	350'
65		650'	715'	780'	65'	130'	410'
70		700'	770'	840'	70'	140'	475'
75		750'	825'	900'	75'	150'	540'
80		800'	880'	960'	80'	160'	615'

** Taper lengths have been rounded off.
L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE

MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓	✓	

GENERAL NOTES

1. All traffic control devices illustrated are REQUIRED. Devices denoted with the triangle symbol may be omitted when stated elsewhere in the plans.
2. ADDED LANE Symbol (CW4-3) sign may be omitted when sign between ramp and mainlane can be seen from both roadways.
3. See "Advance Notice List" on BC(6) for recommended date and time formatting options for PCMS Phase 2 message.
4. The END ROAD WORK (G20-2) sign may be omitted when it conflicts with G20-2 signs already in place on the project.

* A shadow vehicle equipped with a Truck Mounted Attenuator is typically required. A shadow vehicle equipped with a TMA shall be used if it can be positioned 30' to 100' in advance of the area of crew exposure without adversely affecting the work performance.

Additional requirements for lane closures and advance signing shall be as shown on TCP (6-1) or as directed by the Engineer.

Texas Department of Transportation
Traffic Operations Division Standard

TRAFFIC CONTROL PLAN
WORK AREA NEAR RAMP

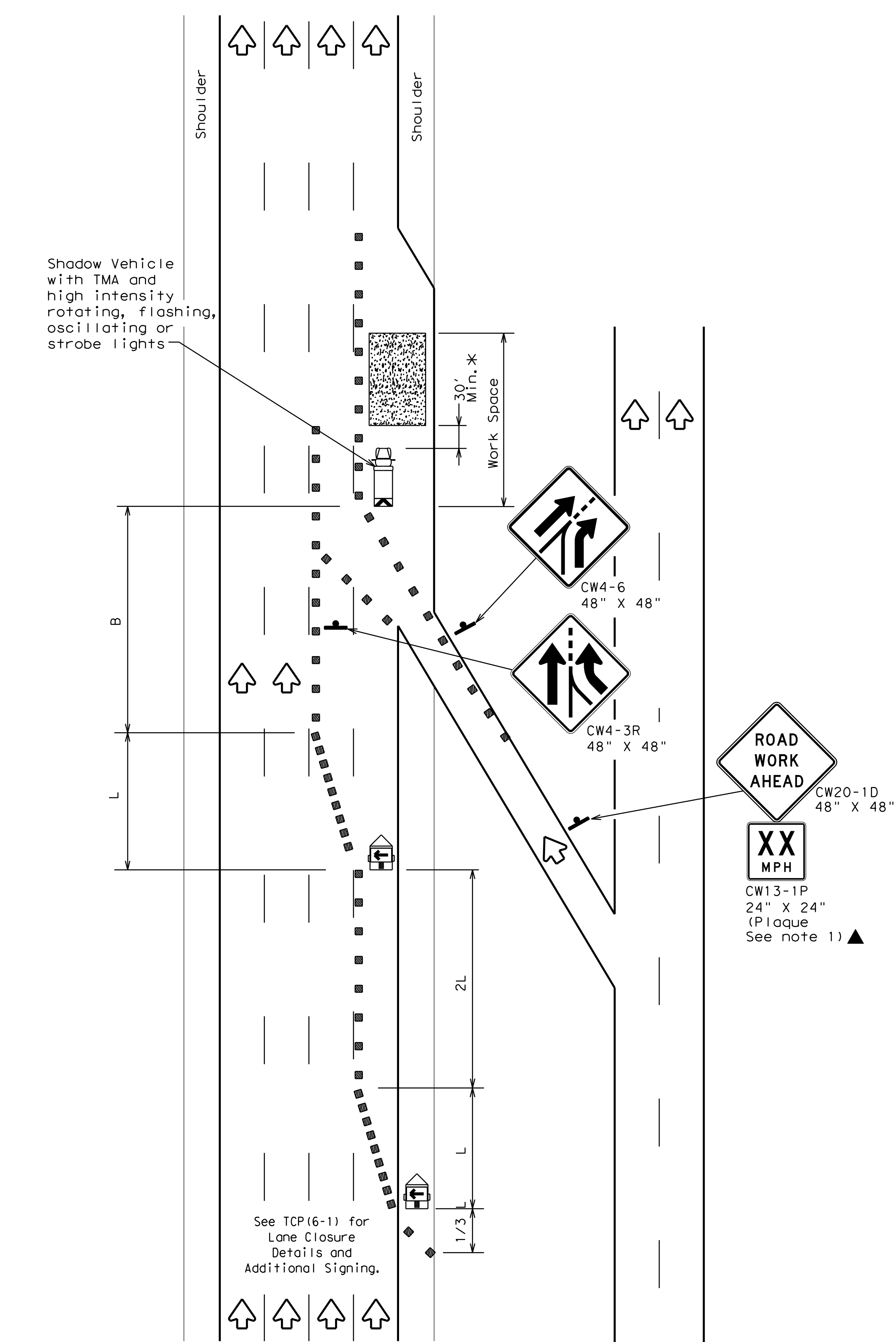
TCP(6-2)-12

FILE: tcp6-2.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT February 1994	CONT	SECT	JOB	HIGHWAY
REVISIONS	0904	00	223	VARIOUS
1-97 8-98	DIST	COUNTY		SHEET NO.
4-98 8-12	AMA	POTTER		22

202

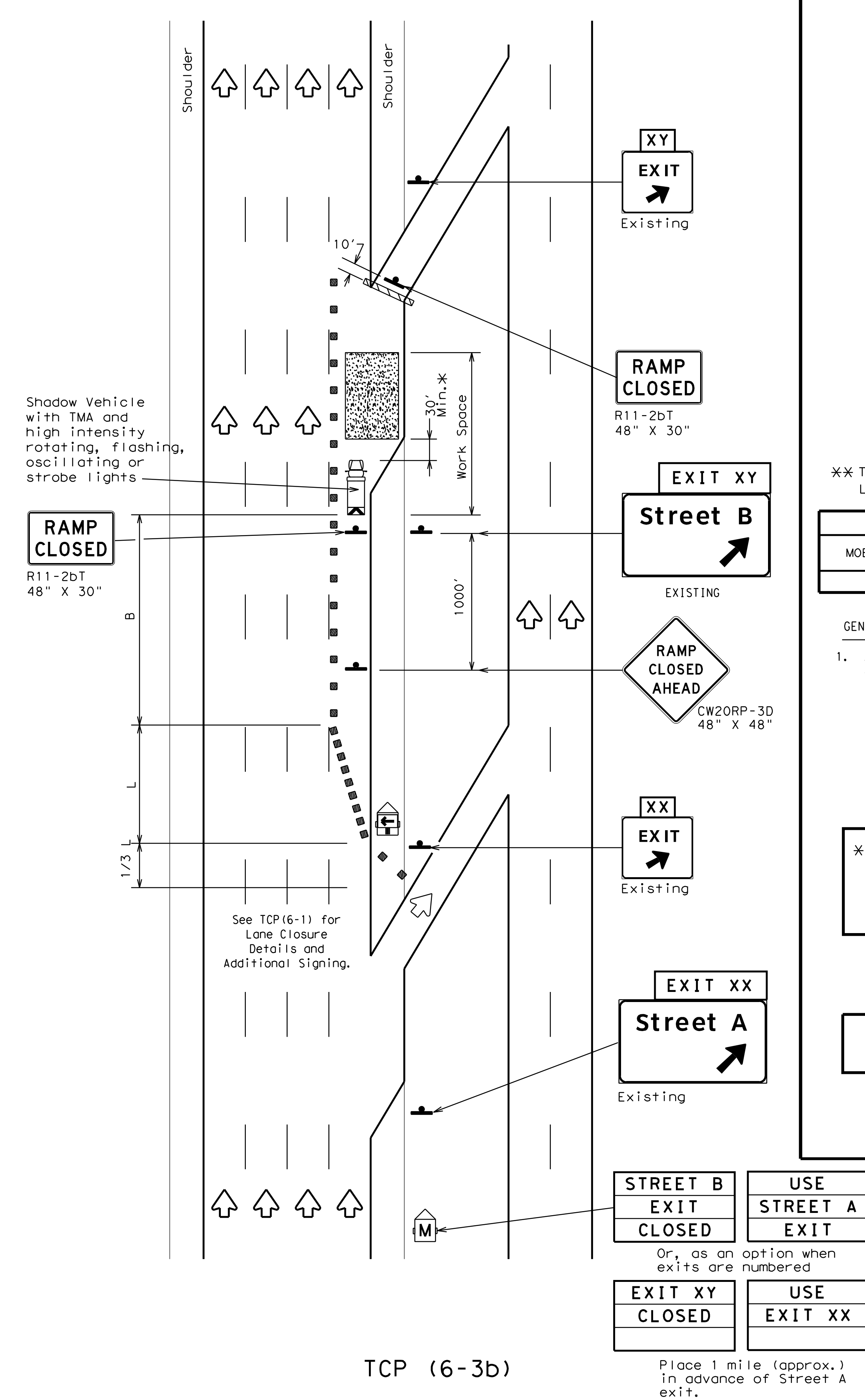
DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE: 9/20/2023 7:03:56 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo



TCP (6-3a)

ENTRANCE RAMP OPEN



TCP (6-3b)

EXIT RAMP CLOSED

TRAFFIC EXITS PRIOR TO CLOSED RAMP

LEGEND			
(symbol)	Type 3 Barricade	(symbol)	Channelizing Devices
(symbol)	Heavy Work Vehicle	(symbol)	Truck Mounted Attenuator (TMA)
(symbol)	Trailer Mounted Flashing Arrow Board	(symbol)	Portable Changeable Message Sign (PCMS)
(symbol)	Sign	(symbol)	Traffic Flow
(symbol)	Flag	(symbol)	Flagger

Posted Speed	Formula	Minimum Desirable Taper Lengths "L" **			Suggested Maximum Spacing of Channelizing Devices		Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	
45	L=WS	450'	495'	540'	45'	90'	195'
50		500'	550'	600'	50'	100'	240'
55		550'	605'	660'	55'	110'	295'
60		600'	660'	720'	60'	120'	350'
65		650'	715'	780'	65'	130'	410'
70		700'	770'	840'	70'	140'	475'
75		750'	825'	900'	75'	150'	540'
80		800'	880'	960'	80'	160'	615'

** Taper lengths have been rounded off.
L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE				
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓	✓	

GENERAL NOTES:

1. All traffic control devices illustrated are REQUIRED. Devices denoted with the triangle symbol may be omitted when stated elsewhere in the plans.

*A shadow vehicle equipped with a Truck Mounted Attenuator is typically required. A shadow vehicle equipped with a TMA shall be used if it can be positioned 30' to 100' in advance of the area of crew exposure without adversely affecting the work performance.

Additional requirements for lane closures and advance signing shall be as shown on TCP (6-1) or as directed by the Engineer.

Texas Department of Transportation
Traffic Operations Division Standard

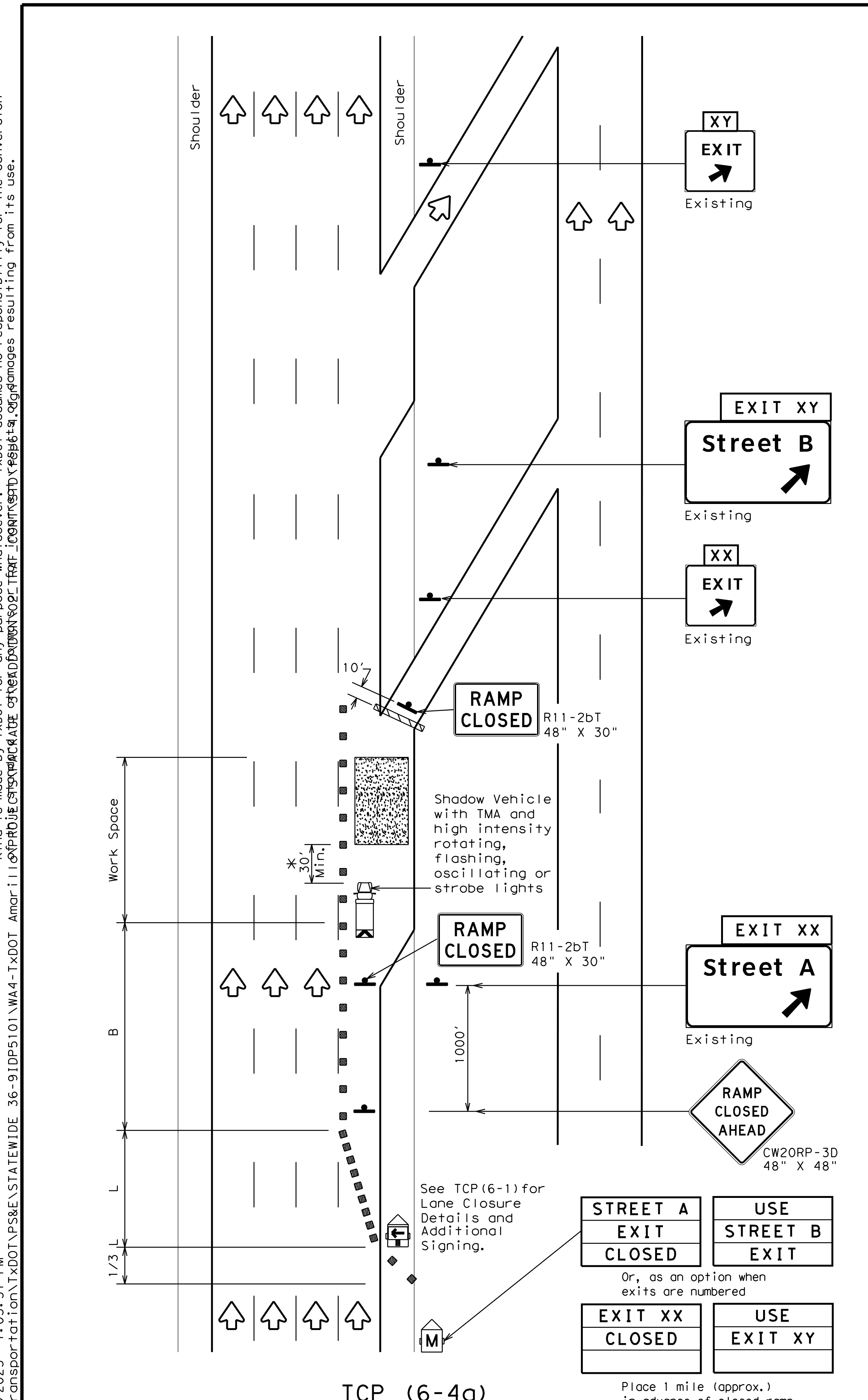
TRAFFIC CONTROL PLAN
WORK AREA BEYOND RAMP

TCP(6-3)-12

FILE: tcp6-3.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT February 1994	CONT	SECT	JOB	HIGHWAY
REVISIONS	0904	00	223	VARIOUS
1-97 8-98	DIST		COUNTY	SHEET NO.
4-98 8-12	AMA		POTTER	23

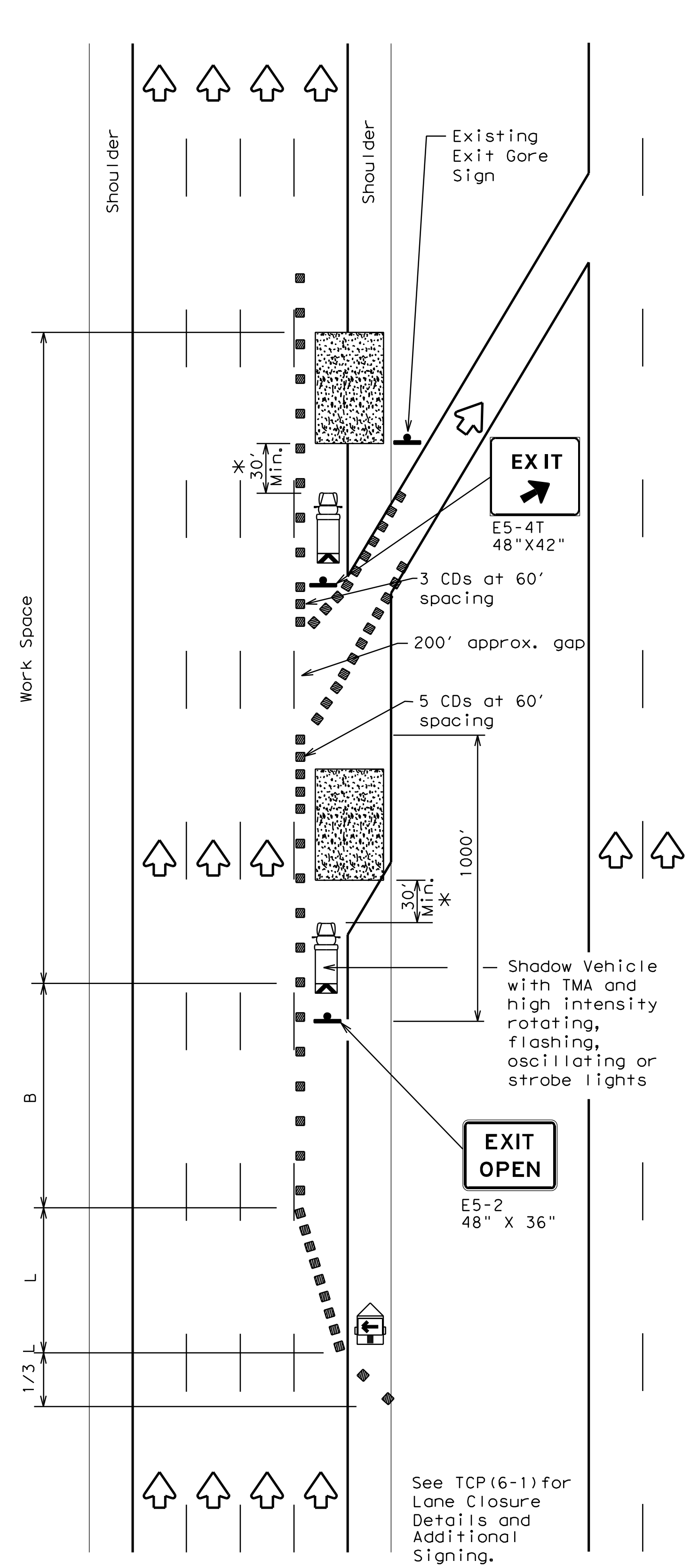
203

DATE: 9/20/2023 7:03:57 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 04\ADD\



TCP (6-4a)

EXIT RAMP CLOSED
TRAFFIC EXITS PAST CLOSED RAMP



TCP (6-4b)

EXIT RAMP OPEN

LEGEND			
(symbol)	Type 3 Barricade	(symbol)	Channelizing Devices (CDs)
(symbol)	Heavy Work Vehicle	(symbol)	Truck Mounted Attenuator (TMA)
(symbol)	Trailer Mounted Flashing Arrow Board	(symbol)	Portable Changeable Message Sign (PCMS)
(symbol)	Sign	(symbol)	Traffic Flow
(symbol)	Flag	(symbol)	Flagger

Posted Speed	Formula	Minimum Desirable Taper Lengths "L" **			Suggested Maximum Spacing of Channelizing Devices		Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	
45	L=WS	450'	495'	540'	45'	90'	195'
50		500'	550'	600'	50'	100'	240'
55		550'	605'	660'	55'	110'	295'
60		600'	660'	720'	60'	120'	350'
65		650'	715'	780'	65'	130'	410'
70		700'	770'	840'	70'	140'	475'
75		750'	825'	900'	75'	150'	540'
80		800'	880'	960'	80'	160'	615'

** Taper lengths have been rounded off.
L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE				
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓	✓	

GENERAL NOTES

1. All traffic control devices illustrated are REQUIRED. Devices denoted with the triangle symbol may be omitted when stated elsewhere in the plans.
2. See BC Standards for sign details.

*A shadow vehicle equipped with a Truck Mounted Attenuator is typically required. A shadow vehicle equipped with a TMA shall be used if it can be positioned 30' to 100' in advance of the area of crew exposure without adversely affecting the work performance.

Additional requirements for lane closures and advance signing shall be as shown on TCP (6-1) or as directed by the Engineer.

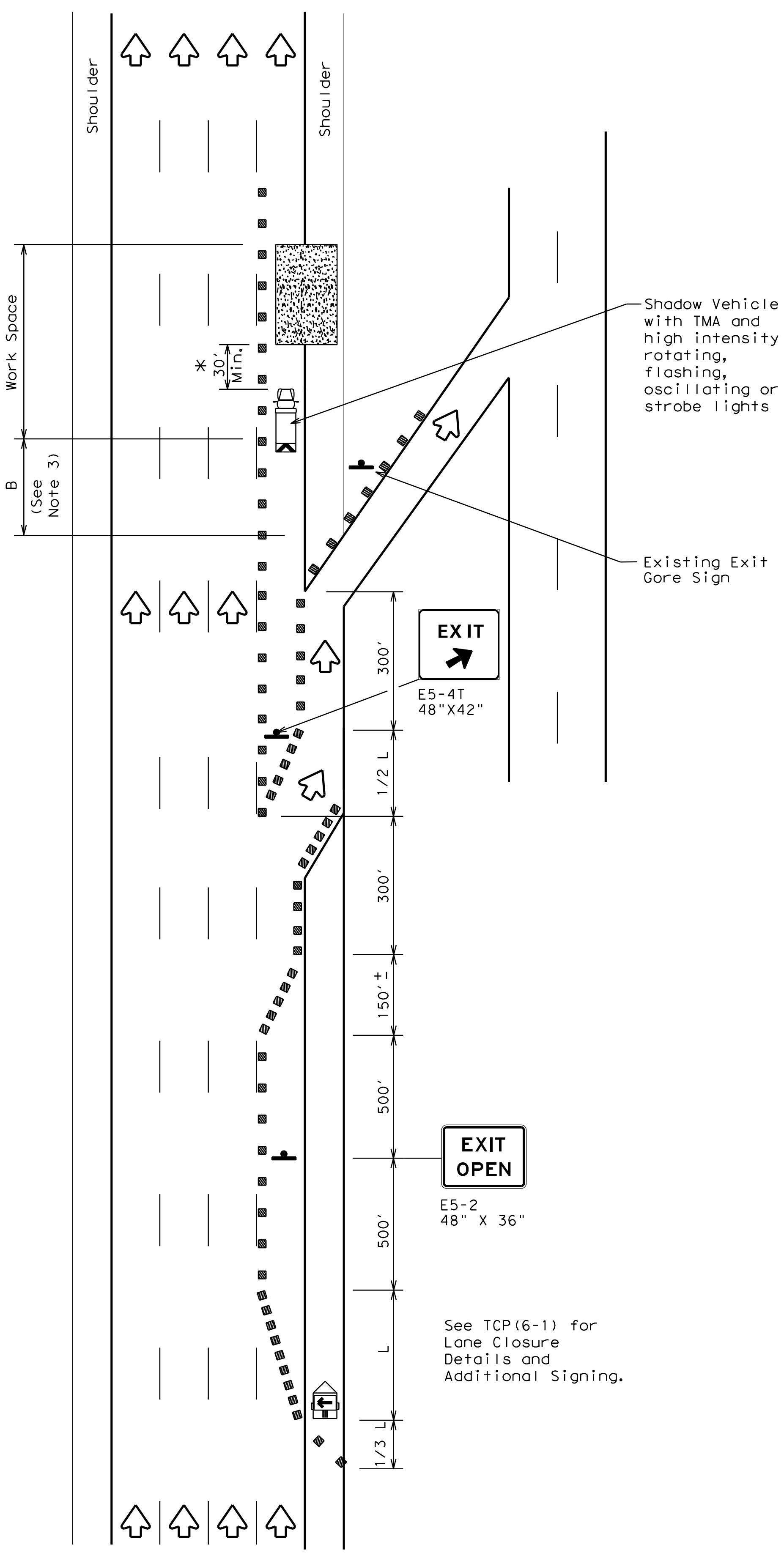
Texas Department of Transportation
Traffic Operations Division Standard

TRAFFIC CONTROL PLAN
WORK AREA AT EXIT RAMP

TCP(6-4)-12

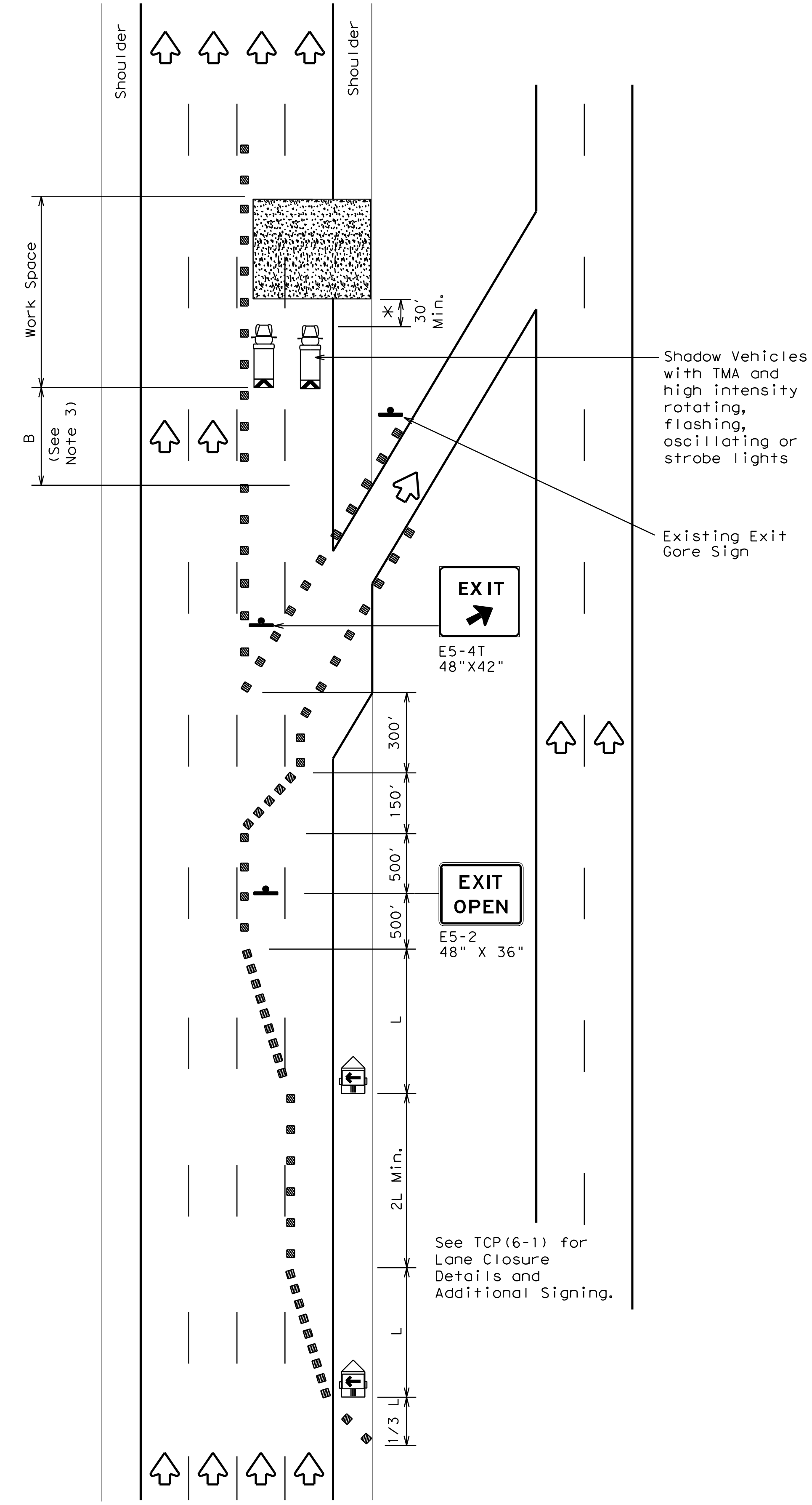
FILE: tcp6-4.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT Feburary 1994	CONT	SECT	JOB	HIGHWAY
REVISIONS	0904	00	223	VARIOUS
1-97 8-98	DIST		COUNTY	SHEET NO.
4-98 8-12	AMA		POTTER	24

204



TCP (6-5a)

EXIT RAMP OPEN



TCP (6-5b)

EXIT RAMP OPEN
TWO LANE CLOSURE WITHIN 1500' PAST EXIT RAMP

LEGEND

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

Posted Speed	Formula	Minimum Desirable Taper Lengths "L" **			Suggested Maximum Spacing of Channelizing Devices		Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	
45	L=WS	450'	495'	540'	45'	90'	195'
50		500'	550'	600'	50'	100'	240'
55		550'	605'	660'	55'	110'	295'
60		600'	660'	720'	60'	120'	350'
65		650'	715'	780'	65'	130'	410'
70		700'	770'	840'	70'	140'	475'
75		750'	825'	900'	75'	150'	540'
80		800'	880'	960'	80'	160'	615'

** Taper lengths have been rounded off.
L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE

MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓	✓	

GENERAL NOTES

1. All traffic control devices illustrated are REQUIRED. Devices denoted with the triangle symbol may be omitted when stated elsewhere in the plans.
2. See BC standards for sign details.
3. If adequate longitudinal buffer length "B" does not exist between the work space and the exit ramp, consideration should be given to closing the ramp.

*A shadow vehicle equipped with a Truck Mounted Attenuator is typically required. A shadow vehicle equipped with a TMA shall be used if it can be positioned 30' to 100' in advance of the area of crew exposure without adversely affecting the work performance.

Additional requirements for lane closures and advance signing shall be as shown on TCP (6-1) or as directed by the Engineer.

Texas Department of Transportation
Traffic Operations Division Standard

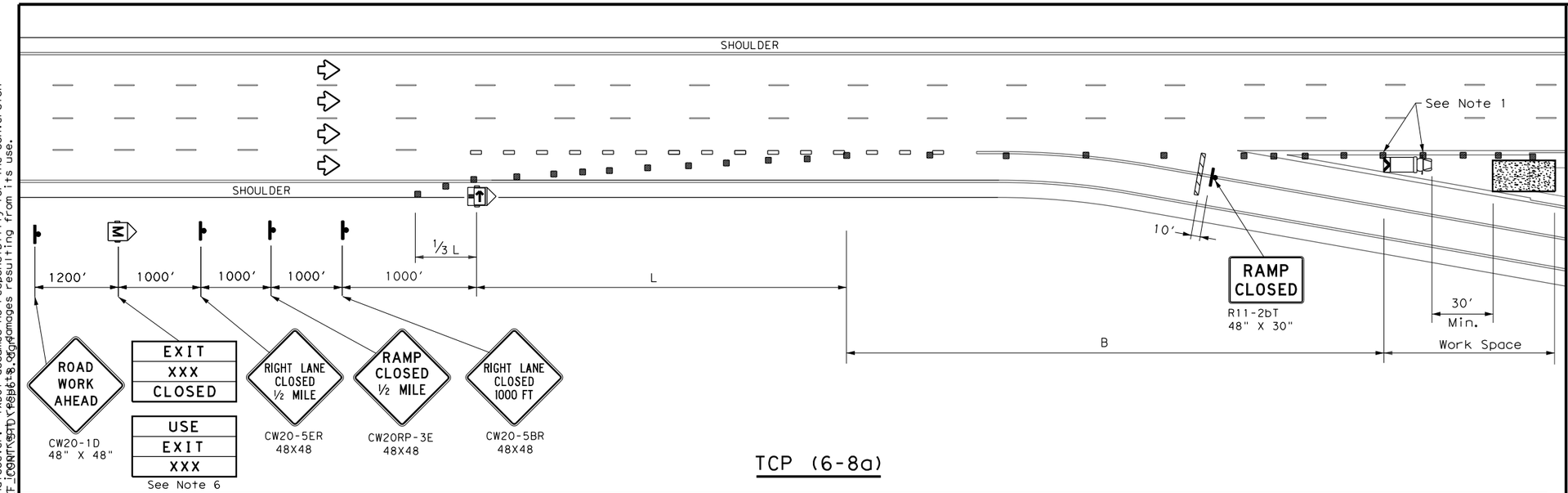
TRAFFIC CONTROL PLAN
WORK AREA BEYOND EXIT RAMP

TCP(6-5)-12

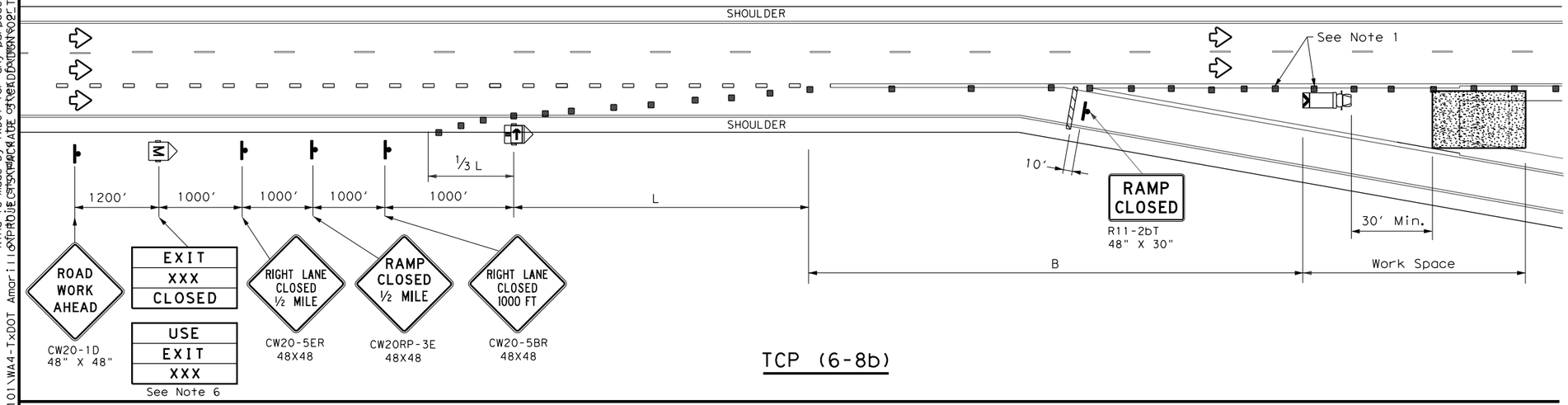
FILE: tcp6-5.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT Feburary 1998	CONT 0904	SECT 00	JOB 223	HIGHWAY VARIOUS
REVISIONS 1-97 8-98 4-98 8-12	DIST AMA		COUNTY POTTER	SHEET NO. 25

205

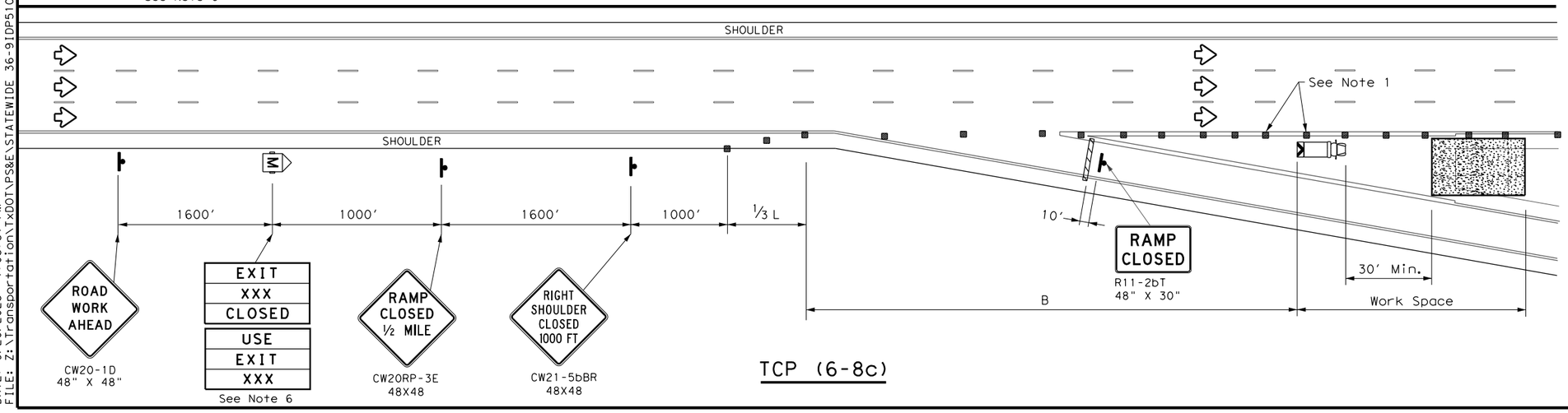
DATE: 9/20/2023 7:03:57 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP510\WA4-TxDOT Amarillo\PROJECT\TRAF_CONTROL\tcp6-8.dgn



TCP (6-8a)



TCP (6-8b)



TCP (6-8c)

LEGEND

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

Posted Speed	Formula	Minimum Desirable Taper Lengths "L" ** 10′ Offset	11′ Offset	12′ Offset	Suggested Maximum Spacing of Channelizing Devices On a Taper	On a Tangent	Suggested Longitudinal Buffer Space "B"
45	L=WS	450′	495′	540′	45′	90′	195′
50		500′	550′	600′	50′	100′	240′
55		550′	605′	660′	55′	110′	295′
60		600′	660′	720′	60′	120′	350′
65		650′	715′	780′	65′	130′	410′
70		700′	770′	840′	70′	140′	475′
75		750′	825′	900′	75′	150′	540′
80		800′	880′	960′	80′	160′	615′

** Taper lengths have been rounded off.
L=Length of Taper(FT) W=Width of Offset(FT)
S=Posted Speed(MPH)

TYPICAL USAGE

MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓		

GENERAL NOTES

1. Place channelizing devices in the gore at 20′ spacing.
2. See the Standard Highway Sign Design for Texas (SHSD) for sign details.
3. The PCMS may be omitted when a permanent DMS sign is available in an appropriate location to display a similar message as called for on the PCMS.
4. When it is determined that a through lane should be closed in addition to the exit ramp, refer to TCP(6-4) for traffic control details.
5. Truck mounted attenuator is required.
6. The PCMS may be omitted if replaced with a "RAMP CLOSED" AHEAD (CW20RP-3D) Sign.
7. Roadway ADT should be greater than 10,000.

Texas Department of Transportation

Traffic Operations Division Standard

WORK IN EXIT GORE FOR ADT GREATER THAN 10,000

TCP(6-8)-14

FILE: tcp6-8.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT February 2014	CONT	SECT	JOB	HIGHWAY
REVISIONS	0904	00	223	VARIOUS
	DIST	COUNTY		SHEET NO.
	AMA	POTTER		26

100%
SUBMITTAL

IH 40						
SIGNS PLAN SHEET NO.	SIGN NO.	REFERENCE MARKER		SIGN	REPLACE SMALL SIGN	REMOVE LARGE SIGN
		FROM	TO			
1	1	82	83	CARSON COUNTY LINE		X
1	2	82	83	POTTER COUNTY LINE		X
1	3	83	84	LOW CLEARANCE 16FT-11IN	X	
1	4	83	84	LOW CLEARANCE 16FT-11IN	X	
1	1	84	85	EXIT 85 DURRETT RD 1 MILE		X
1	2	84	85	AMARILLO 14 TUCUMCARI 124 ALBUQUERQUE 297		X
1	6	85	86	EXIT 85 DURRETT RD Directional Arrow (Right)		X
1	7	85	86	EXIT 85 Directional Arrow (Right)		X
1	8	85	86	LOW CLEARANCE 17FT-08IN	X	
1	9	85	86	LOW CLEARANCE 17FT-00IN	X	
1	10	85	86	PICNIC AREA 1 MILE		X
1	11	85	86	EXIT 85 Directional Arrow (Right)		X
1	12	85	86	EXIT 85 BUSINESS OFF-INTERSTATE BUSINESS RT. MK. 40 WEST AMARILLO BLVD Directional Arrow (Right)		X
1	13	85	86	EXIT 87 FARM TO MARKET 2373 1 MILE		X
1	16	86	87	INTERSTATE ROUTE MARKER 40 PURPLE HEART TRAIL Purple Heart Medal		X
1	17	86	87	OLD ROUTE 66 EXIT 85 BUSINESS OFF-INTERSTATE BUSINESS RT. MK. 40 WEST AMARILLO BLVD 1 MILE		X
1	18	86	87	PICNIC AREA Directional Arrow (Right)		X
1	19	87	88	EXIT 87 FM 2373 Directional Arrow (Right)		X
1	20	87	88	EXIT 87 Directional Arrow (Right)		X
1	21	87	88	LOW CLEARANCE 18FT-00IN	X	
1	22	87	88	LOW CLEARANCE 18FT-00IN	X	
1	23	87	88	EXIT 87 Directional Arrow (Right)		X
1	24	88	89	EXIT 87 FARM TO MARKET ROUTE MARKER 2373 Directional Arrow (Right)		X
1	3	88	89	OLD ROUTE 66 EXIT 89 FARM TO MARKET ROUTE MARKER 2161 1 MILE		X
1	4	88	89	CONWAY 9 GROOM 24 OKLAHOMA CITY 245		X

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/21/2023

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

EXISTING SIGN INVENTORY

SHEET 1 OF 9

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	27
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:03:58 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9\DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\01_GENERAL\AMA03_SGNINV_01.dgn

100%
SUBMITTAL

IH 40						
SIGNS PLAN SHEET NO.	SIGN NO.	REFERENCE MARKER FROM	REFERENCE MARKER TO	SIGN	REPLACE SMALL SIGN	REMOVE LARGE SIGN
1	5	88	89	AMARILLO 20 TUCUMCARI 130 ALBUQUERQUE 303		X
1	27	88	89	EXIT 87 FARM TO MARKET ROUTE MARKER 2373 1 MILE		X
1	28	89	90	OLD ROUTE 66 EXIT 89 FARM TO MARKET ROUTE MARKER 2161 Directional Arrow (Right)		X
1	29	89	90	INTERSTATE ROUTE MARKER 40 PURPLE HEART TRAIL PURPLE HEART MEDAL		X
1	30	89	90	EXIT 89 Directional Arrow (Right)		X
1	31	89	90	LOW CLEARANCE 16FT-02IN	X	
1	32	89	90	LOW CLEARANCE 16FT-07IN	X	
1	33	90	91	EXIT 89 Directional Arrow (Right)		X
1	34	91	92	EXIT 89 FARM TO MARKET ROUTE MARKER 2161 Directional Arrow (Right)		X
1	6	90	91	CONWAY 7 GROOM 22 OKLAHOMA CITY 243		X
1	7	91	92	EXIT 89 FARM TO MARKET ROUTE MARKER 2161 1 MILE		X
2	36	91	92	LOW CLEARANCE 16FT-03IN	X	
2	37	91	92	LOW CLEARANCE 15FT-07IN	X	
2	38	91	92	LOW CLEARANCE 16FT-06IN	X	
2	39	91	92	LOW CLEARANCE 15FT-08IN	X	
2	40	93	94	LOW CLEARANCE 16FT-03IN	X	
2	41	93	94	LOW CLEARANCE 15FT-07IN	X	
2	42	93	94	LOW CLEARANCE 16FT-06IN	X	
2	43	93	94	LOW CLEARANCE 15FT-08IN	X	
2	44	95	96	EXIT 96 TEXAS 207 CONWAY PANHANDLE 1 MILE		X
2	45	95	96	AMARILLO 27 TUCUMCARI 137 ALBUQUERQUE 310		X
2	47	96	97	EXIT 96 TEXAS 207 CONWAY PANHANDLE Directional Arrow (Right)		X
2	48	96	97	EXIT 96 Directional Arrow (Right)		X
2	49	96	97	LOW CLEARANCE 16FT-05IN	X	
2	50	96	97	LOW CLEARANCE 15FT-05IN	X	
2	51	96	97	LOW CLEARANCE 16FT-10IN	X	
2	52	96	97	LOW CLEARANCE 15FT-06IN	X	
2	53	97	98	EXIT 96 Directional Arrow (Right)		X

STATE OF TEXAS
JUAN E. TREVIÑO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

EXISTING SIGN INVENTORY

SHEET 2 OF 9

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	28
CONTROL	SECTION	JOB	
0904	00	223	

AMA03_SGNINV_01.dgn

9/20/2023 7:03:58 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\01_GENERAL\AMA03_SGNINV_01.dgn

100%
SUBMITTAL

IH 40						
SIGNS PLAN SHEET NO.	SIGN NO.	REFERENCE MARKER FROM	REFERENCE MARKER TO	SIGN	REPLACE SMALL SIGN	REMOVE LARGE SIGN
2	54	97	98	EXIT 96 TEXAS 207 CONWAY PANHANDLE Directional Arrow (Right)		X
2	56	97	98	GROOM 16 ALANREED 41 OKLAHOMA CITY 241		X
2	57	98	99	LOW CLEARANCE 16FT-02IN	X	
2	58	98	99	LOW CLEARANCE 15FT-06IN	X	
2	59	98	99	LOW CLEARANCE 16FT-10IN	X	
2	60	98	99	LOW CLEARANCE 15FT-09IN	X	
2	63	98	99	EXIT 96 TEXAS 207 CONWAY PANHANDLE 1 MILE		X
2	61	98	99	EXIT 98 Directional Arrow (Right)		X
2	62	98	99	OLD ROUTE 66 EXIT 98 TEXAS 207 SOUTH CLAUDE Directional Arrow (Right)		X
2	65	99	100	OLD ROUTE 66 EXIT 98 TEXAS 207 SOUTH CLAUDE 1 MILE		X
2	8	99	100	GROOM 14 ALANREED 39 OKLAHOMA CITY 239		X
2	67	100	101	LOW CLEARANCE 18FT-03IN	X	
3	68	103	104	LOW CLEARANCE 19FT-04IN	X	
3	69	103	104	LOW CLEARANCE 16FT-01IN	X	
3	9	103	104	EXIT 105 FARM TO MARKET ROUTE MARKER 2880 1 MILE		X
3	10	104	105	CONWAY 7 AMARILLO 35 TUCUMCARI 145		X
3	71	104	105	EXIT 105 FARM TO MARKET ROUTE MARKER 2880 Directional Arrow (Right)		X
3	72	104	105	EXIT 105 Directional Arrow (Right)		X
3	73	105	106	LOW CLEARANCE 19FT-06IN	X	
3	74	105	106	LOW CLEARANCE 19FT-06IN	X	
3	75	105	106	EXIT 105 Directional Arrow (Right)		X
3	76	105	106	EXIT 105 FARM TO MARKET ROUTE MARKER 2880 Directional Arrow (Right)		X
3	11	106	107	CONWAY 9 AMARILLO 37 TUCUMCARI 147		X

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

EXISTING SIGN INVENTORY

SHEET 3 OF 9

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	
CONTROL	SECTION	JOB	29
0904	00	223	

9/20/2023 7:03:58 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9\DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\01_GENERAL\AMA03_SGNINV_01.dgn

100%
SUBMITTAL

IH 40						
SIGNS PLAN SHEET NO.	SIGN NO.	REFERENCE MARKER FROM	REFERENCE MARKER TO	SIGN	REPLACE SMALL SIGN	REMOVE LARGE SIGN
3	12	107	108	GROOM 6 ALANREED 31 OKLAHOMA CITY 231		X
3	13	107	108	EXIT 109 FARM TO MARKET ROUTE MARKER 294 1 MILE		X
3	80	108	109	EXIT 109 FARM TO MARKET ROUTE MARKER 294 Directional Arrow (Right)		X
3	81	108	109	EXIT 109 Directional Arrow (Right)		X
3	83	109	110	LOW CLEARANCE 19FT-08IN	X	
3	86	109	110	EXIT 109 FARM TO MARKET ROUTE MARKER 294 Directional Arrow (Right)		X
3	87	109	110	OLD ROUTE 66 EXIT 110 BUSINESS OFF-INTERSTATE BUSINESS RT. MK. 40 EAST GROOM 1/2 MILE		X
3	14	109	110	CONWAY 12 AMARILLO 40 TUCUMCARI 150		X
3	89	110	111	EXIT 110 BUSINESS OFF-INTERSTATE BUSINESS RT. MK. 40 EAST GROOM Directional Arrow (Right)		X
4	90	110	111	EXIT 110 Directional Arrow (Right)		X
4	15	110	111	EXIT 112 FARM TO MARKET ROUTE MARKER 295 1 MILE		X
4	91	111	112	EXIT 110 Directional Arrow (Right)		X
4	92	111	112	EXIT 110 BUSINESS OFF-INTERSTATE BUSINESS RT. MK. 40 EAST Directional Arrow (Right)		X
4	94	111	112	EXIT 112 TEXAS 295 Directional Arrow (Right)		X
4	95	111	112	EXIT 112 Directional Arrow (Right)		X
4	16	111	112	EXIT 113 FARM TO MARKET ROUTE MARKER 2300 1 MILE		X
4	100	112	113	EXIT 110 BUSINESS OFF-INTERSTATE BUSINESS RT. MK. 40 EAST 1 MILE		X
4	98	112	113	EXIT 112 Directional Arrow (Right)		X
4	99	112	113	EXIT 112 TEXAS 295 Directional Arrow (Right)		X

STATE OF TEXAS
JUAN E. TREVIÑO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

EXISTING SIGN INVENTORY

SHEET 4 OF 9

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	30
CONTROL	SECTION	JOB	
0904	00	223	

AMA03_SGNINV_01.dgn

9/20/2023 7:03:59 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\01_GENERAL\AMA03_SGNINV_01.dgn

100%
SUBMITTAL

IH 40						
SIGNS PLAN SHEET NO.	SIGN NO.	REFERENCE MARKER FROM	REFERENCE MARKER TO	SIGN	REPLACE SMALL SIGN	REMOVE LARGE SIGN
4	101	112	113	EXIT 113 FARM TO MARKET ROUTE MARKER 2300 Directional Arrow (Right)		X
4	102	112	113	EXIT 113 Directional Arrow (Right)		X
4	104	113	114	EXIT 114 BUSINESS OFF-INTERSTATE BUSINESS RT. MK. 40 WEST 1 MILE		X
4	17	113	114	EXIT 112 TEXAS 295 1 MILE		X
4	106	113	114	EXIT 113 Directional Arrow (Right)		X
4	107	113	114	EXIT 113 FARM TO MARKET ROUTE MARKER 2300 Directional Arrow (Right)		X
4	104	113	114	EXIT 114 BUSINESS OFF-INTERSTATE BUSINESS RT. MK. 40 WEST 1 MILE		X
4	109	113	114	EXIT 114 Directional Arrow (Right)		X
4	110	114	115	GRAY COUNTY LINE		X
4	111	114	115	CARSON COUNTY LINE		X
4	18	114	115	EXIT 113 FARM TO MARKET ROUTE MARKER 2300 3/4 MILE		X
4	113	114	115	EXIT 114 Directional Arrow (Right)		X
4	114	114	115	OLD ROUTE 66 EXIT 114 BUSINESS OFF-INTERSTATE BUSINESS RT. MK. 40 WEST GROOM Directional Arrow (Right)		X
4	116	115	116	ALANREED 20 MCLEAN 28 OKLAHOMA CITY 219		X
4	117	115	116	OLD ROUTE 66 EXIT 114 BUSINESS OFF-INTERSTATE BUSINESS RT. MK. 40 WEST GROOM 1 MILE		X
4	118	116	117	GROOM NEXT 3 EXITS		X
4	120	118	119	LOW CLEARANCE 16FT-03IN	X	
4	121	118	119	DONLEY COUNTY LINE		X
4	122	118	119	GRAY COUNTY LINE		X
4	123	119	120	EXIT 121 TEXAS 70 NORTH PAMPA 1 MILE		X
4	19	119	120	GROOM 8 CONWAY 22 AMARILLO 50		X

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/21/2023

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

EXISTING SIGN INVENTORY

SHEET 5 OF 9

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	31
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:03:59 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\W44-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\01_GENERAL\AMA03_SGNINV_01.dgn

100%
SUBMITTAL

IH 40						
SIGNS PLAN SHEET NO.	SIGN NO.	REFERENCE MARKER		SIGN	REPLACE SMALL SIGN	REMOVE LARGE SIGN
		FROM	TO			
5	125	120	121	EXIT 121 TEXAS 70 NORTH PAMPA Directional Arrow (Right)		X
5	126	120	121	EXIT 121 Directional Arrow (Right)		X
5	127	120	121	GRAY COUNTY LINE		X
5	128	120	121	DONLEY COUNTY LINE		X
5	130	120	121	LOW CLEARANCE 16FT-05IN	X	
5	132	121	122	EXIT 121 TEXAS 70 NORTH PAMPA Directional Arrow (Right)		X
5	134	122	123	EXIT 121 TEXAS 70 NORTH PAMPA 1 MILE		X
5	135	122	123	EXIT 124 TEXAS 70 SOUTH CLARENDON 1 MILE		X
5	20	123	124	GROOM 12 CONWAY 26 AMARILLO 54		X
5	137	123	124	EXIT 124 TEXAS 70 SOUTH CLARENDON Directional Arrow (Right)		X
5	138	124	125	EXIT 124 Directional Arrow (Right)		X
5	140	124	125	LOW CLEARANCE 17FT-05IN	X	
5	141	124	125	LOW CLEARANCE 15FT-09IN	X	
5	139	124	125	DONLEY COUNTY LINE		X
5	142	124	125	GRAY COUNTY LINE		X
5	143	124	125	EXIT 124 Directional Arrow (Right)		X
5	144	125	126	EXIT 124 TEXAS 70 SOUTH CLARENDON Directional Arrow (Right)		X
5	146	125	126	EXIT 124 TEXAS 70 SOUTH CLARENDON 1 MILE		X
5	21	126	127	EXIT 128 FARM TO MARKET ROUTE MARKER 2477 1 MILE		X
5	147	126	127	GRAY COUNTY LINE		X
5	148	126	127	DONLEY COUNTY LINE		X
5	151	127	128	GRAY COUNTY LINE		X
5	150	127	128	DONLEY COUNTY LINE		X
5	152	127	128	EXIT 128 FARM TO MARKET ROUTE MARKER 2477 Directional Arrow (Right)		X
5	153	127	128	EXIT 128 Directional Arrow (Right)		X
5	154	127	128	HANDICAPPED TORNADO SHELTER REST AREA 1 MILE VENDING MACHINES		X

STATE OF TEXAS
JUAN E. TREVIÑO-GUERRA
141908
NOT LICENSED PROFESSIONAL ENGINEER
9/21/2023

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

EXISTING SIGN INVENTORY

SHEET 6 OF 9

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	32
CONTROL	SECTION	JOB	
0904	00	223	

AMA03_SGNINV_01.dgn

9/20/2023 7:03:59 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\01_GENERAL\AMA03_SGNINV_01.dgn

100%
SUBMITTAL

IH 40						
SIGNS PLAN SHEET NO.	SIGN NO.	REFERENCE MARKER		SIGN	REPLACE SMALL SIGN	REMOVE LARGE SIGN
		FROM	TO			
5	155	127	128	LOW CLEARANCE 17FT-04IN	X	
5	156	127	128	LOW CLEARANCE 16FT-00IN	X	
5	157	128	129	EXIT 128 Directional Arrow (Right)		X
5	158	128	129	EXIT 128 FARM TO MARKET ROUTE MARKER 2477 Directional Arrow (Right)		X
5	159	128	129	REST AREA Directional Arrow (Right)		X
6	22	129	130	EXIT 128 FARM TO MARKET ROUTE MARKER 2477 1 MILE		X
6	161	129	130	GRAY COUNTY LINE		X
6	162	129	130	DONLEY COUNTY LINE		X
6	163	129	130	CAMPING RV SANITARY STATION PICNIC AREA LAKE MCCLELLAN RECREATION AREA EXIT 128		X
6	23	130	131	GROOM 18 CONWAY 32 AMARILLO 60		X
6	164	131	132	REST AREA Directional Arrow (Right)		X
6	165	131	132	EXIT 132 JOHNSON RANCH RD 1/2 MILE		X
6	166	131	132	EXIT 132 JOHNSON RANCH RD Directional Arrow (Right)		X
6	167	131	132	EXIT 132 Directional Arrow (Right)		X
6	170	132	133	HANDICAPPED TORNADO SHELTER REST AREA 1 MILE VENDING MACHINES		X
6	171	132	133	EXIT 132 JOHNSON RANCH RD 1/2 MILE		X
6	24	133	134	OLD ROUTE 66 EXIT 135 LOOP 271 TO FARM TO MARKET ROUTE MARKER 291 ALANREED 1 MILE		X
6	173	134	135	GROOM 22 CONWAY 36 AMARILLO 64		X
6	174	134	135	EXIT 135 LOOP 271 TO FARM TO MRKET ROUTE MARKER 291 ALANREED Directional Arrow (Right)		X
6	176	135	136	LOW CLEARANCE 17FT-00IN	X	

STATE OF TEXAS
JUAN E. TREVIÑO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

EXISTING SIGN INVENTORY

SHEET 7 OF 9

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	33
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:03:59 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9\DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\01_GENERAL\AMA03_SGNINV_01.dgn

100%
SUBMITTAL

IH 40						
SIGNS PLAN SHEET NO.	SIGN NO.	REFERENCE MARKER FROM	REFERENCE MARKER TO	SIGN	REPLACE SMALL SIGN	REMOVE LARGE SIGN
6	177	135	136	LOW CLEARANCE 16FT-05IN	X	
6	178	135	136	LOW CLEARANCE 19FT-03IN	X	
6	179	135	136	LOW CLEARANCE 16FT-03IN	X	
6	181	136	137	OLD ROUTE 66 EXIT 135 LOOP 271 TO FARM TO MARKET ROUTE MARKER 291 ALANREED Directional Arrow (Right)		X
6	182	136	137	MCLEAN 6 SHAMROCK 27 OKLAHOMA 197		X
6	25	137	138	EXIT 135 LOOP 271 TO FARM TO MRKET ROUTE MARKER 291 ALANREED 1 MILE		X
6	184	137	138	LOW CLEARANCE 16FT-06IN	X	
6	185	137	138	LOW CLEARANCE 16FT-06IN	X	
6	186	138	139	MCLEAN NEXT 2 EXITS MUSEUM		X
7	187	139	140	OLD ROUTE 66 EXIT 141 BUSINESS OFF-INTERSTATE BUSINESS RT. MK. 40 EAST MCLEAN 1 MILE		X
7	189	140	141	OLD ROUTE 66 EXIT 141 BUSINESS OFF-INTERSTATE BUSINESS RT. MK. 40 EAST MCLEAN Directional Arrow (Right)		X
7	190	140	141	ALANREED 5 GROOM 29 AMARILLO 71		X
7	192	141	142	EXIT 142 TEXAS 273 TO FARM TO MARKET ROUTE MARKER 3143 1 MILE		X
7	193	141	142	LOW CLEARANCE 16FT-06IN	X	
7	194	141	142	LOW CLEARANCE 16FT-04IN	X	
7	196	142	143	EXIT 142 TEXAS 273 TO FARM TO MARKET ROUTE MARKER 3143 Directional Arrow (Right)		X
7	198	142	143	LOW CLEARANCE 16FT-05IN	X	
7	199	142	143	LOW CLEARANCE 16FT-10IN	X	
7	200	143	144	LOW CLEARANCE 16FT-09IN	X	
7	201	143	144	LOW CLEARANCE 16FT-08IN	X	
7	202	143	144	EXIT 142 TEXAS 273 TO FARM TO MARKET ROUTE MARKER 3143 Directional Arrow (Right)		X

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/21/2023

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

EXISTING SIGN INVENTORY

SHEET 8 OF 9

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	34
CONTROL	SECTION	JOB	
0904	00	223	

AMA03_SGNINV_01.dgn

9/20/2023 7:04:00 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\01_GENERAL\AMA03_SGNINV_01.dgn

100%
SUBMITTAL

IH 40						
SIGNS PLAN SHEET NO.	SIGN NO.	REFERENCE MARKER		SIGN	REPLACE SMALL SIGN	REMOVE LARGE SIGN
		FROM	TO			
7	204	144	145	EXIT 142 TEXAS 273 TO FARM TO MARKET ROUTE MARKER 3143 1 MILE		X
7	205	144	145	EXIT 143 Directional Arrow (Right)		X
7	206	144	145	OLD ROUUTE 66 EXIT 143 BUSINESS OFF-INTERSTATE BUSINESS RT. MK. WEST MCLEAN Directional Arrow (Right)		X
7	208	144	145	EXIT 143 OFF-INTERSTATE BUSINESS RT. MK. 40 WEST MCLEAN 1/2 MILE		X
7	207	144	145	SHAMROCK 19 ERICK 45 OKLAHOMA CITY 189		X
7	210	145	146	MCLEAN NEXT 2 EXITS MUSEUM		X
7	211	145	146	EXIT 146 COUNTY LINE RD 1/2 MILE		X
7	212	146	147	EXIT 146 COUNTY LINE RD Directional Arrow (Right)		X
7	213	146	147	EXIT 146 Directional Arrow (Right)		X
7	215	146	147	LOW CLEARANCE 16FT-01IN	X	
7	216	146	147	LOW CLEARANCE 16FT-11IN	X	
7	214	146	147	WHEELER COUNTY LINE		X
7	217	146	147	GRAY COUNTY LINE		X

STATE OF TEXAS
JUAN E. TREVIÑO-GUERRA
141908
NOT LICENSED PROFESSIONAL ENGINEER

9/21/2023

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

EXISTING SIGN INVENTORY

SHEET 9 OF 9

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	35
CONTROL	SECTION	JOB	
0904	00	223	

AMA03_SGNINV_01.dgn

9/20/2023 7:04:00 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\01_GENERAL\AMA03_SGNINV_01.dgn

100%
SUBMITTAL

BEGIN PROJECT
CSJ 0904-00-223
IH 40
AT POTTER & CARSON
COUNTY LINE

POTTER COUNTY
CARSON COUNTY

IH 40

FM 2575

BI-40D

FM 307

CR C

CR D

CR 2

MATCH LINE A

MATCH LINE B

FM 2373

FM 2161

CR H

XX'-XX"

1 RM 082+0.893
2 RM 082+0.893
3 RM 083+0.439
4 RM 083+0.439
5 RM 084+0.671
6 RM 085+0.202
7 RM 085+0.305
8 RM 085+0.586
9 RM 085+0.586
10 RM 085+0.711
11 RM 085+0.735
12 RM 085+0.838
13 RM 085+0.957
14 RM 086+0.326
15 RM 086+0.448
16 RM 086+0.690
17 RM 086+0.832
18 RM 086+0.900
19 RM 087+0.420
20 RM 087+0.420
21 RM 087+0.524
22 RM 087+0.742
23 RM 087+0.742
24 RM 088+0.151
25 RM 088+0.646
26 RM 088+0.731
27 RM 088+0.966
28 RM 089+0.225
29 RM 089+0.304
30 RM 089+0.501
31 RM 089+0.776
32 RM 089+0.776
33 RM 090+0.106
34 RM 090+0.294
35 RM 090+0.840

LEGEND:

- REMOVE EXISTING SIGNS
- LARGE SIGNS
- OVERHEAD SIGNS
- XX'-XX" CLEARANCE SIGNS
- REF MARKER
- SIGN NUMBER
- SIGN REMOVAL NUMBER

0 605 1210 2420
SCALE: 1"=2420'

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/20/2023

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

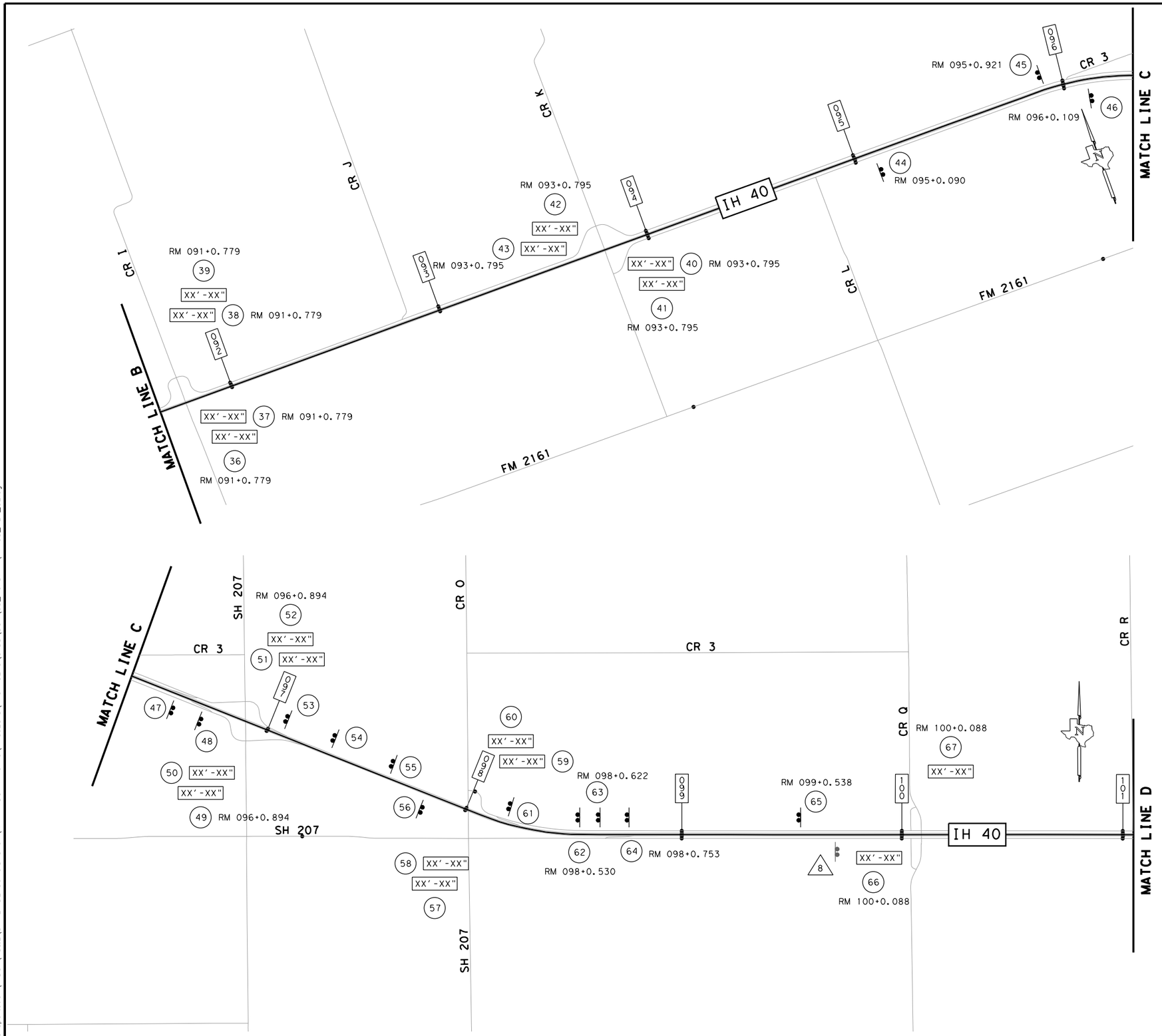
SIGNS PLAN LAYOUT

SHEET 1 OF 7

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	36
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:01 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9\DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03_ROADWAY\AMA03_PLN_01.dgn

100%
SUBMITTAL



LEGEND:

- REMOVE EXISTING SIGNS
- LARGE SIGNS
- OVERHEAD SIGNS
- XX'-XX" CLEARANCE SIGNS
- REF MARKER
- XX SIGN NUMBER
- XX SIGN REMOVAL NUMBER

47 RM 096+0.557
48 RM 096+0.695
50 RM 096+0.894
51 RM 096+0.894
53 RM 097+0.071
54 RM 097+0.301
55 RM 097+0.771
56 RM 098+0.010
57 RM 098+0.010
58 RM 098+0.010
59 RM 098+0.010
60 RM 097+0.591
61 RM 098+0.192

0 605 1210 2420
SCALE: 1"=2420'

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/20/2023

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

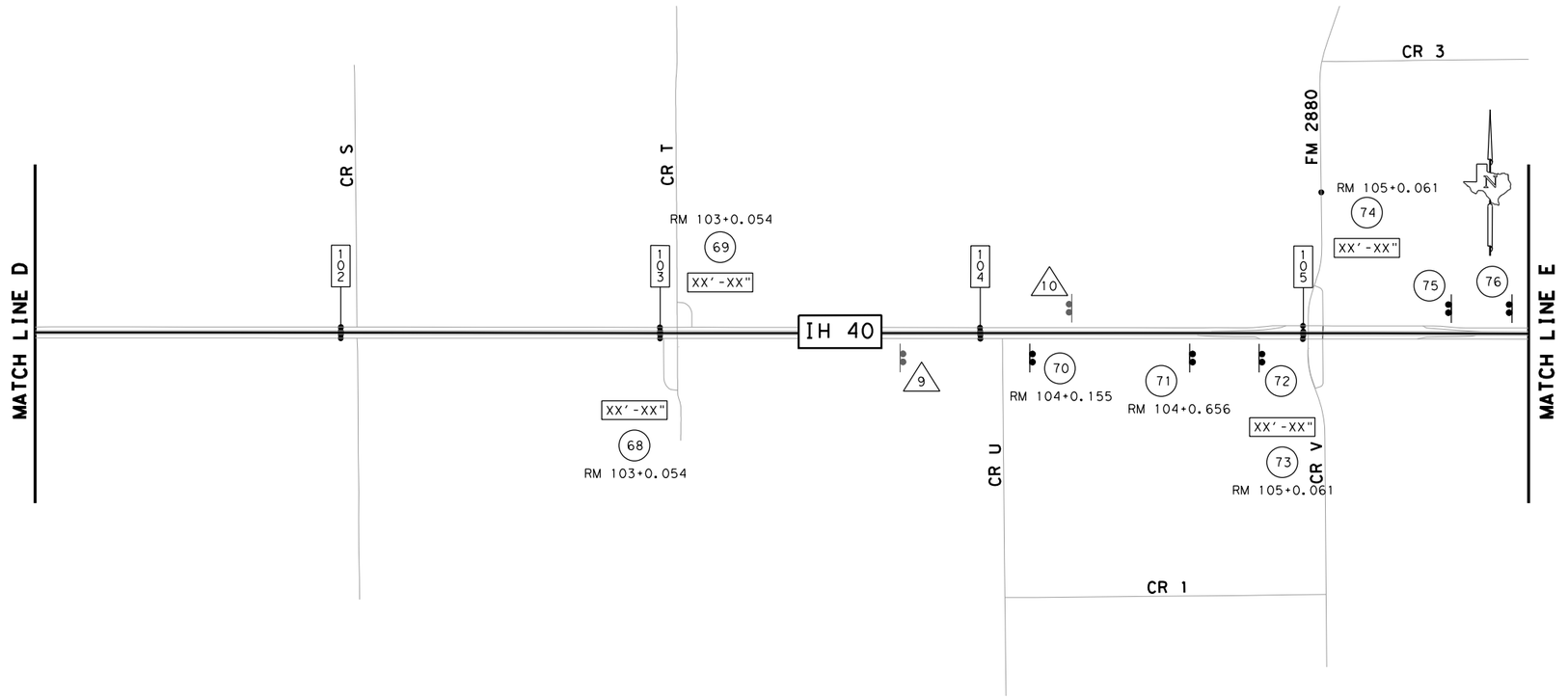
SIGNS PLAN LAYOUT

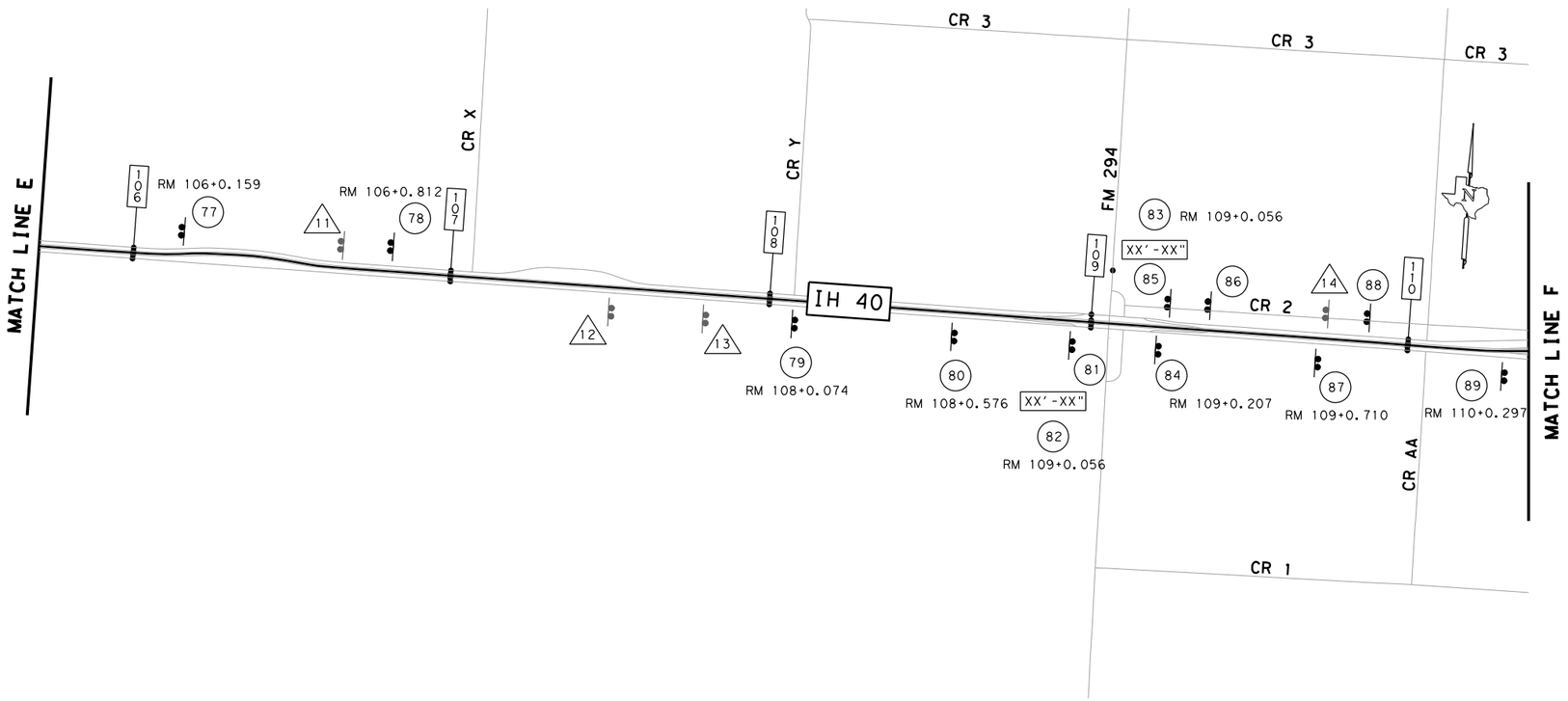
SHEET 2 OF 7

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	37
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:01 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9\DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03_ROADWAY\AMA03_PLN_02.dgn

100%
SUBMITTAL





LEGEND:

- REMOVE EXISTING SIGNS
- LARGE SIGNS
- OVERHEAD SIGNS
- XX'-XX" CLEARANCE SIGNS
- XXX REF MARKER
- XX SIGN NUMBER
- XX SIGN REMOVAL NUMBER

(72) RM 104+0.871
(75) RM 105+0.465
(76) RM 105+0.653
(81) RM 108+0.948
(85) RM 109+0.244
(86) RM 109+0.370
(88) RM 109+0.872

0 605 1210 2420
SCALE: 1"=2420'

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/20/2023

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

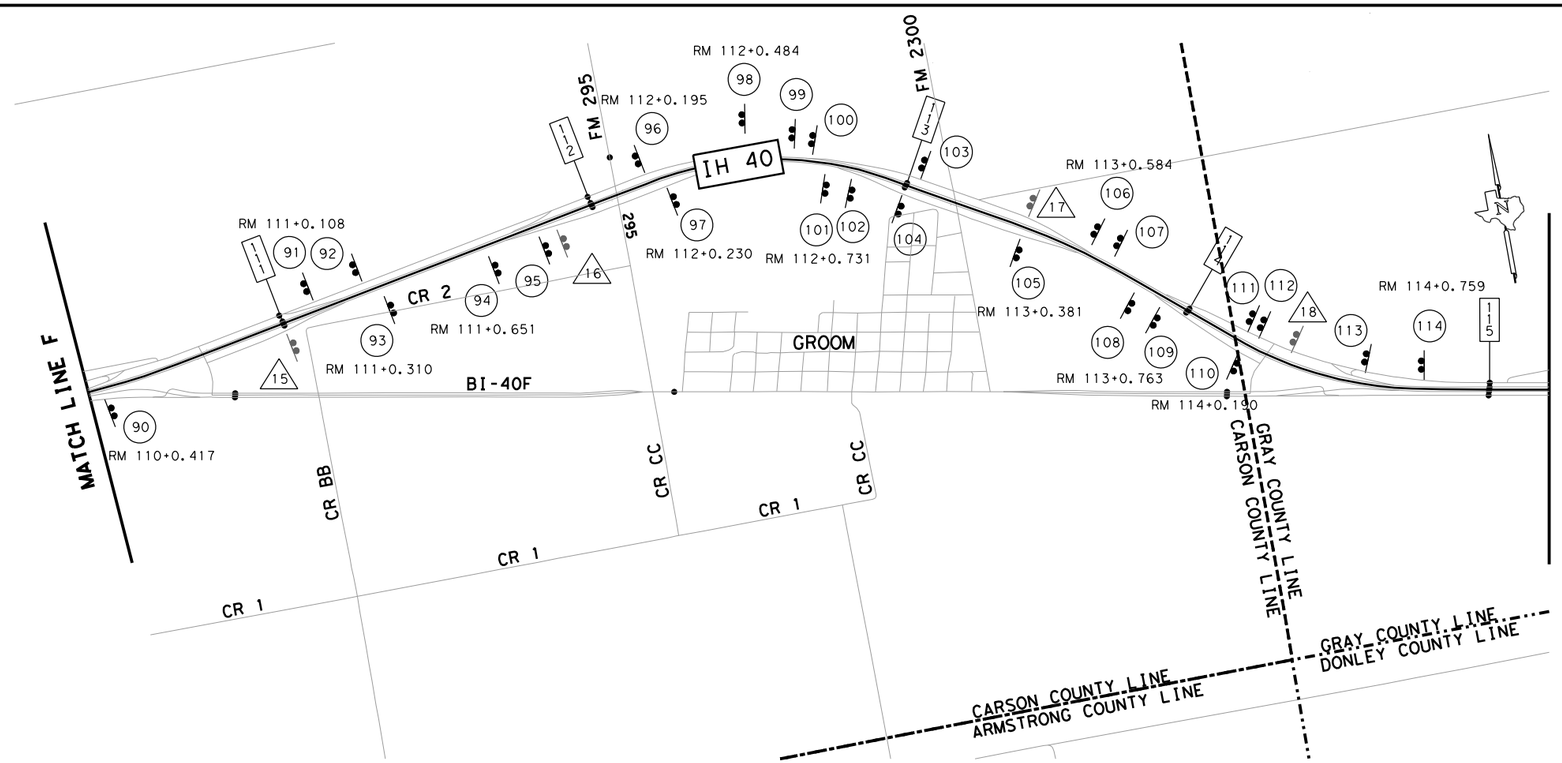
SIGNS PLAN LAYOUT

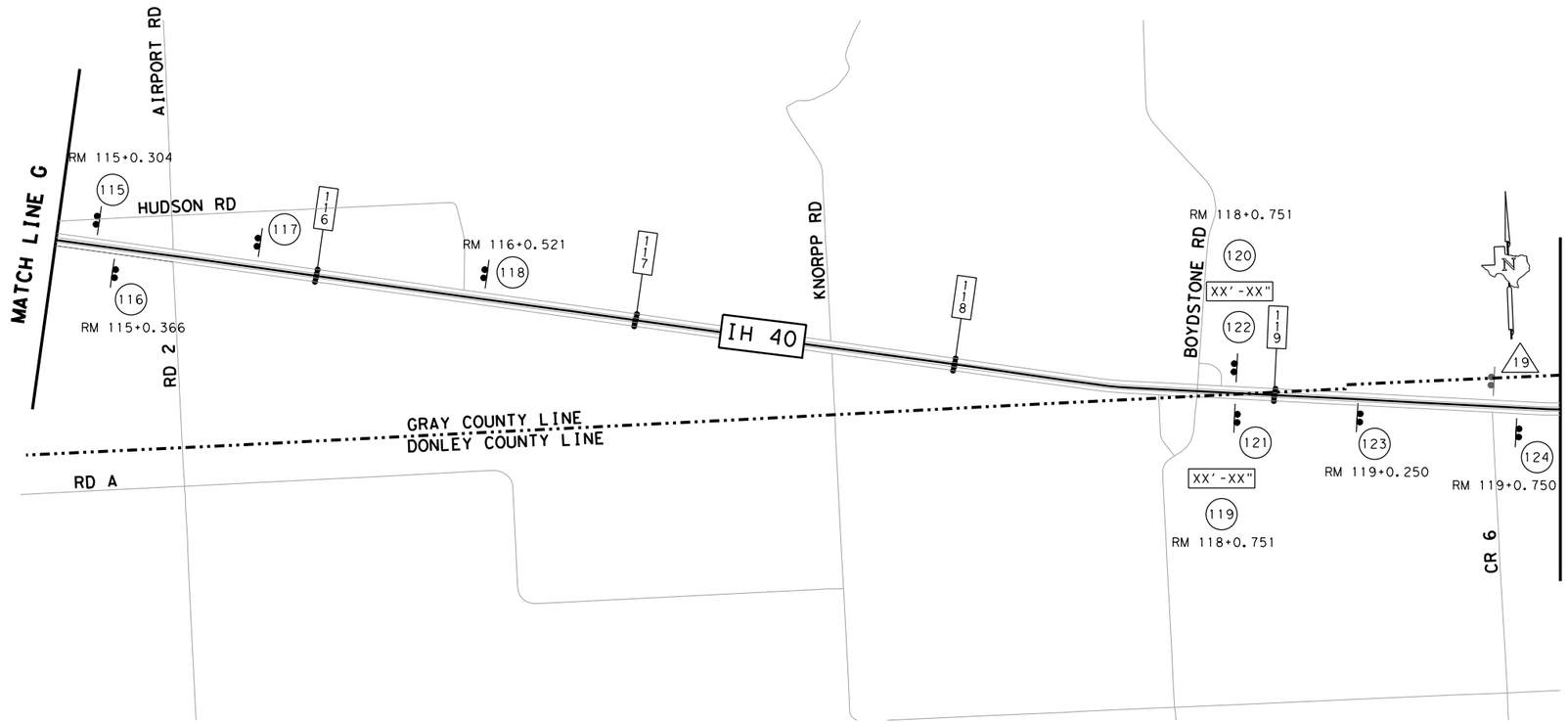
SHEET 3 OF 7

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	38
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:02 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03_ROADWAY\AMA03_PLN_03.dgn

100%
SUBMITTAL





LEGEND:

- REMOVE EXISTING SIGNS
- LARGE SIGNS
- OVERHEAD SIGNS
- XX'-XX" CLEARANCE SIGNS
- REF MARKER
- XX SIGN NUMBER
- XX SIGN REMOVAL NUMBER

92 RM 111+0.266
95 RM 111+0.812
99 RM 112+0.631
100 RM 112+0.686
102 RM 112+0.814
103 RM 113+0.034
104 RM 113+0.000
107 RM 113+0.661
109 RM 113+0.852
111 RM 114+0.190
112 RM 114+0.229
113 RM 114+0.577
117 RM 115+0.803
121 RM 118+0.870
122 RM 118+0.870

0 605 1210 2420
SCALE: 1"=2420'

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/20/2023

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

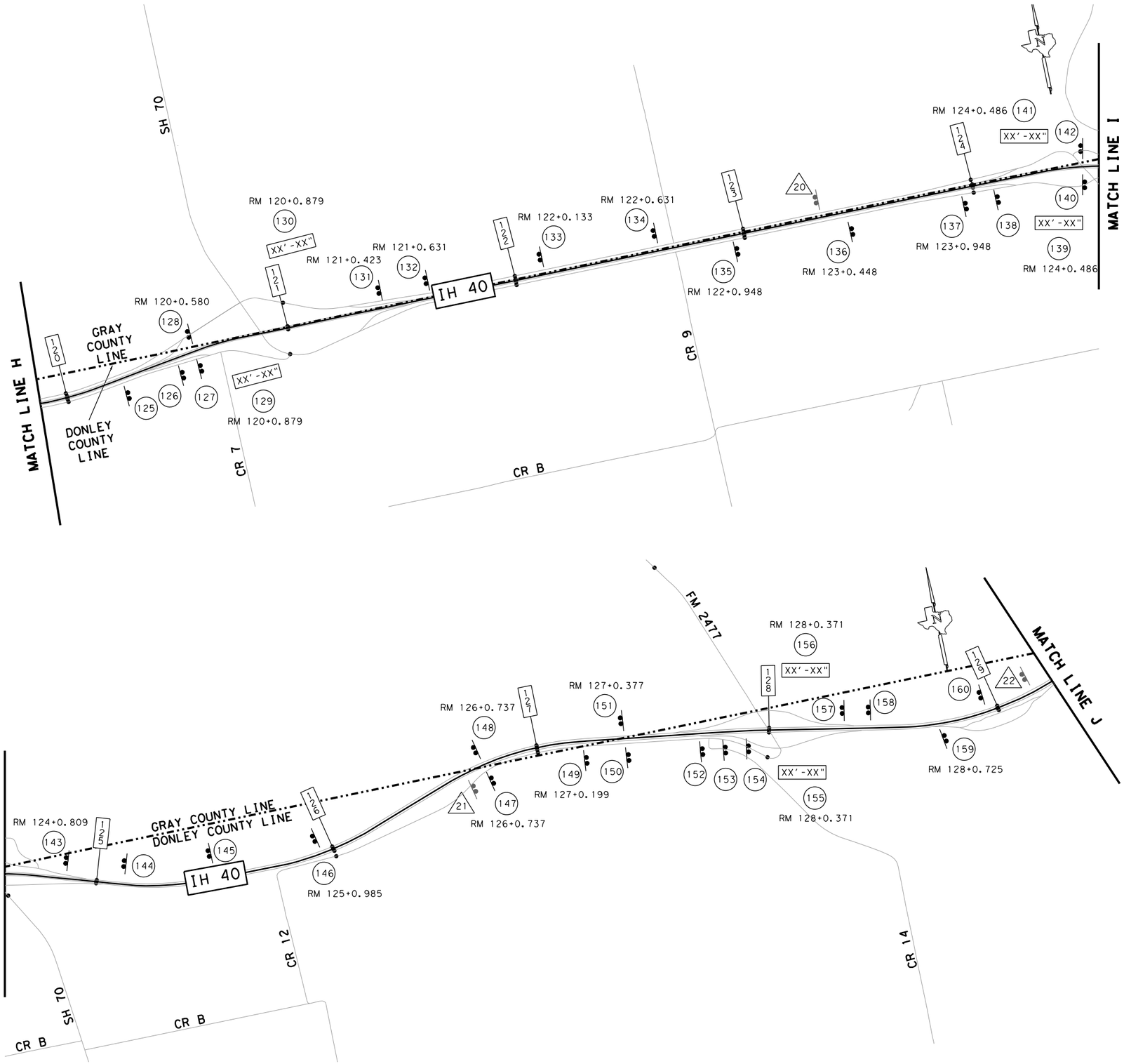
SIGNS PLAN LAYOUT

SHEET 4 OF 7

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	39
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:02 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03_ROADWAY\AMA03_PLN_04.dgn

100%
SUBMITTAL



LEGEND:

- REMOVE EXISTING SIGNS
- LARGE SIGNS
- OVERHEAD SIGNS
- XX'-XX" CLEARANCE SIGNS
- XXX REF MARKER
- XX SIGN NUMBER
- XX SIGN REMOVAL NUMBER

(125) RM 120+0.249
(126) RM 120+0.497
(127) RM 120+0.580
(138) RM 124+0.087
(140) RM 124+0.486
(142) RM 124+0.486
(144) RM 125+0.118
(145) RM 125+0.516
(150) RM 127+0.377
(152) RM 127+0.702
(153) RM 127+0.798
(154) RM 127+0.902
(157) RM 128+0.323
(158) RM 128+0.493
(160) RM 128+0.936

0 605 1210 2420
SCALE: 1"=2420'

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/20/2023

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

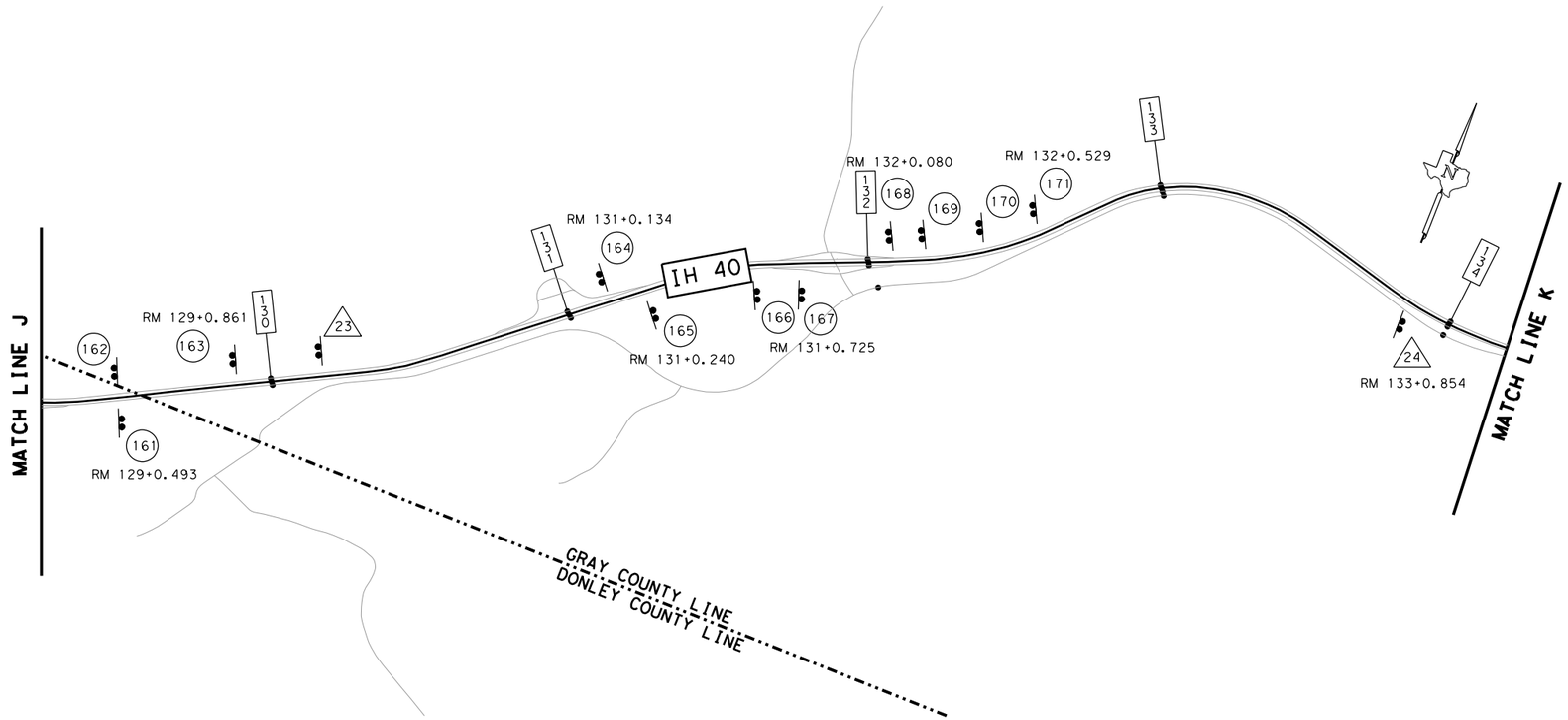
SIGNS PLAN LAYOUT

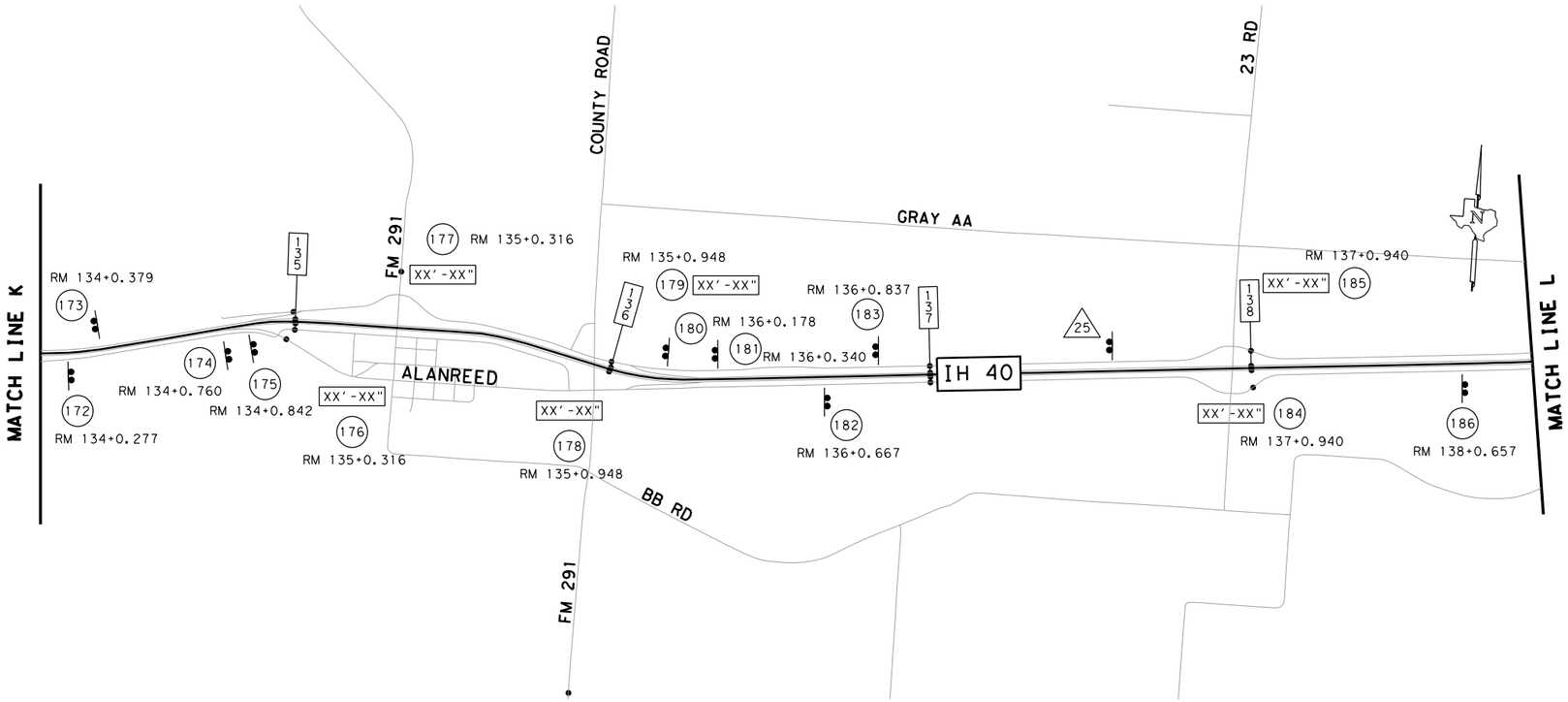
SHEET 5 OF 7

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	40
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:02 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36_9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03_ROADWAY\AMA03_PLN_05.dgn

100%
SUBMITTAL





LEGEND:

- REMOVE EXISTING SIGNS
- LARGE SIGNS
- OVERHEAD SIGNS
- XX'-XX" CLEARANCE SIGNS
- REF MARKER
- XX SIGN NUMBER
- XX SIGN REMOVAL NUMBER

(162) RM 129+0.493
(166) RM 131+0.579
(169) RM 132+0.178
(170) RM 132+0.356

0 605 1210 2420
SCALE: 1"=2420'

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/20/2023

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

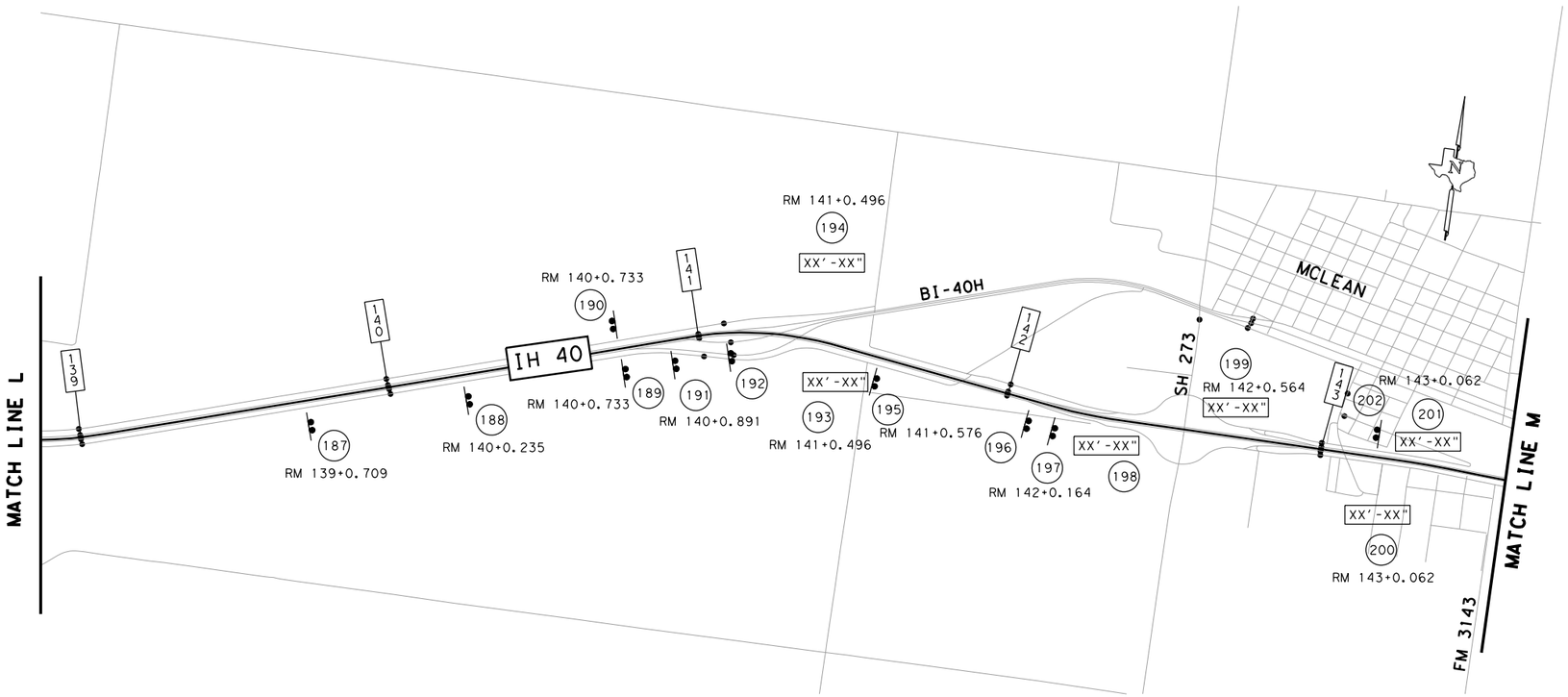
SIGNS
PLAN LAYOUT

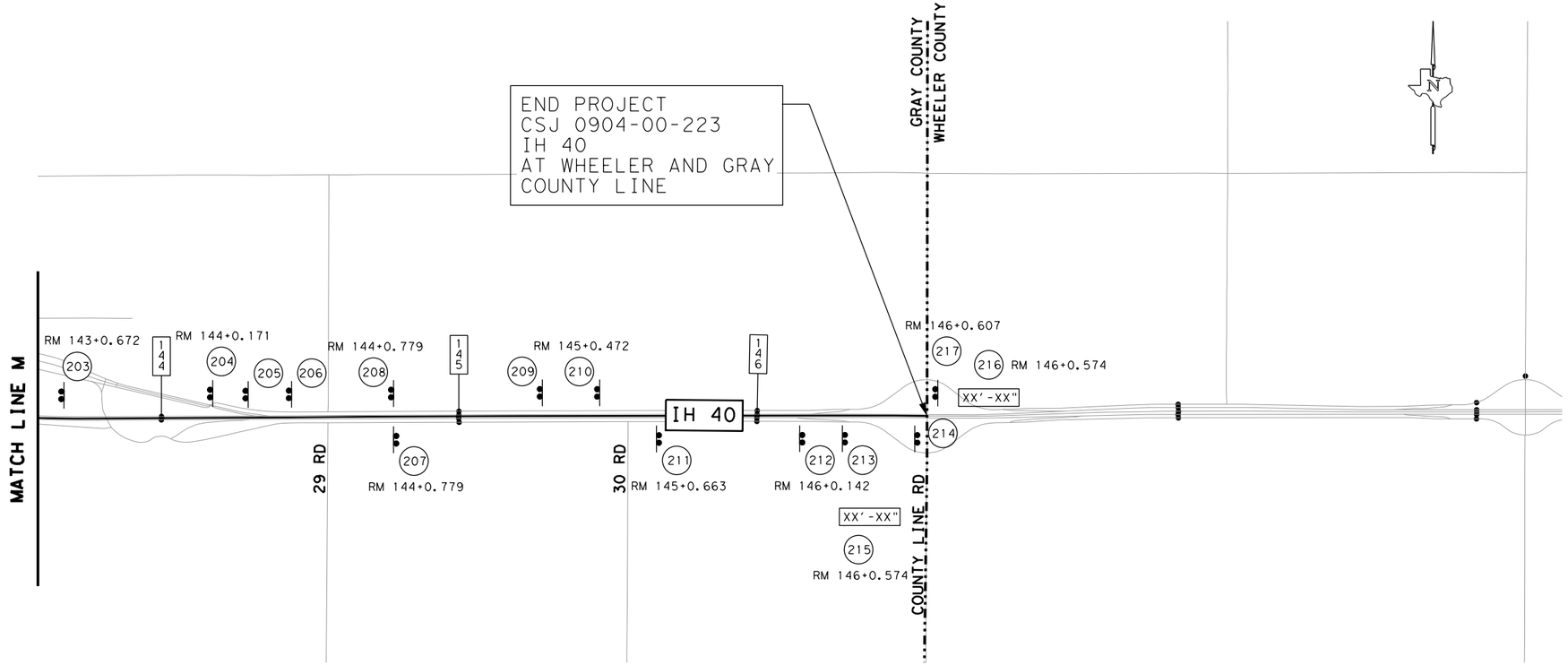
SHEET 6 OF 7

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	
CONTROL	SECTION	JOB	41
0904	00	223	

9/20/2023 7:04:02 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03_ROADWAY\AMA03_PLN_06.dgn

100%
SUBMITTAL





LEGEND:

- REMOVE EXISTING SIGNS
- LARGE SIGNS
- OVERHEAD SIGNS
- XX'-XX" CLEARANCE SIGNS
- XXX REF MARKER
- XX SIGN NUMBER
- XX SIGN REMOVAL NUMBER

192 RM 141+0.083
196 RM 142+0.077
198 RM 142+0.564
201 RM 143+0.062
205 RM 144+0.290
209 RM 145+0.472
213 RM 146+0.286
214 RM 146+0.532

0 605 1210 2420
SCALE: 1"=2420'

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/20/2023

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

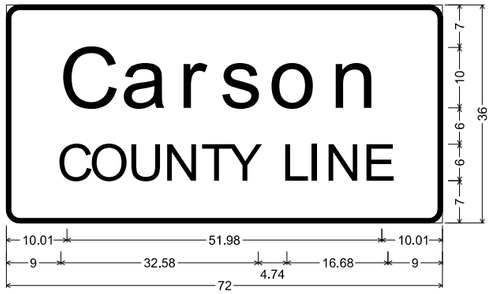
SIGNS PLAN LAYOUT

SHEET 7 OF 7

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	42
CONTROL	SECTION	JOB	
0904	00	223	

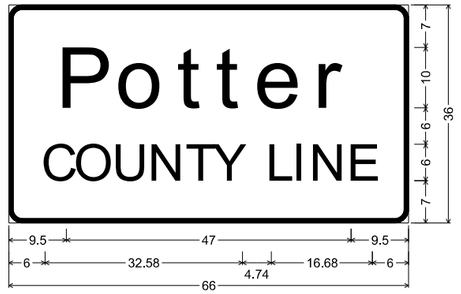
9/20/2023 7:04:03 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03_ROADWAY\AMA03_PLN_07.dgn

100%
SUBMITTAL



I-2dT 10in;
2.25" Radius, 0.75" Border, White on Green;
"Carson", ClearviewHwy-5-W-R; "COUNTY LINE", ClearviewHwy-3-W;

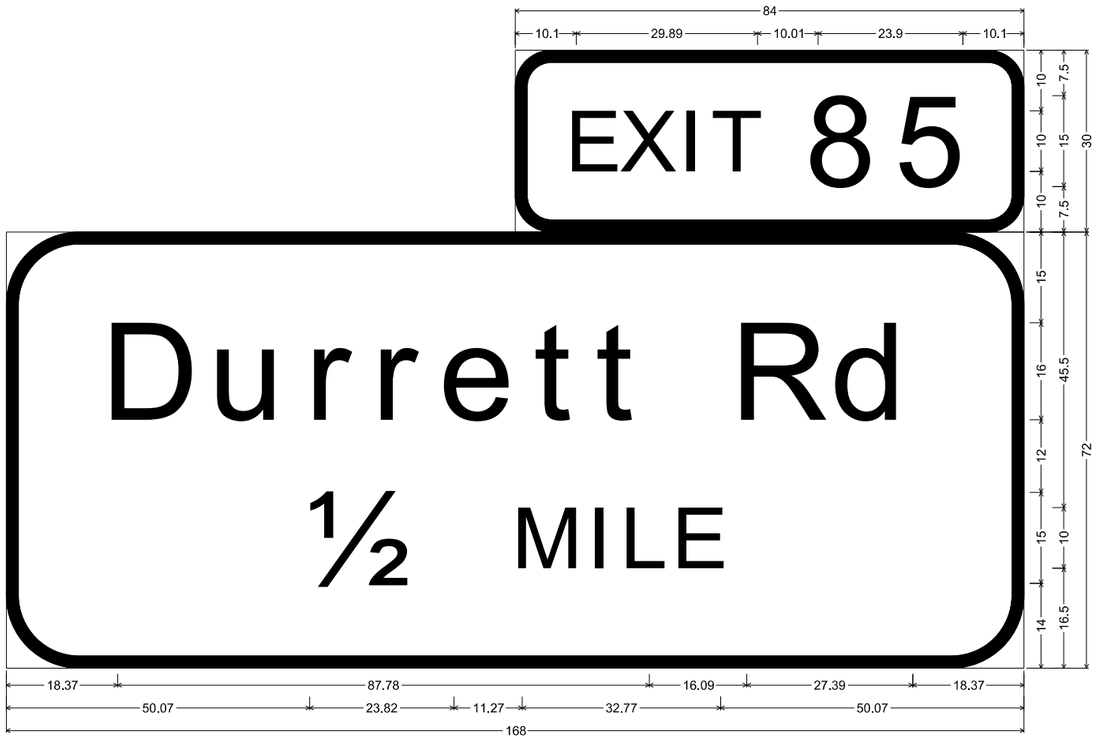
SIGN 1 111



I-2dT 10in;
2.25" Radius, 0.75" Border, White on Green;
"Potter", ClearviewHwy-5-W-R;
"COUNTY LINE", ClearviewHwy-3-W;

SIGN 2

"EXIT 85", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_84x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
"Durrett Rd", ClearviewHwy-5-W-R; "½ MILE", ClearviewHwy-5-W-R;

SIGN 5

STATE OF TEXAS
JUAN E. TREVIÑO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

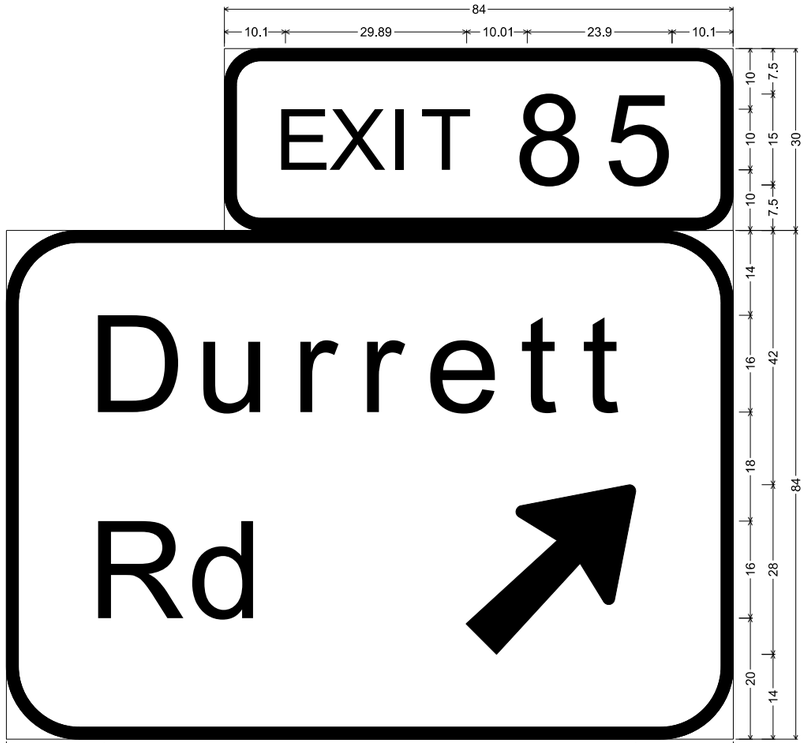
SHEET 1 OF 63

			HIGHWAY NO.
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	AMARILLO	POTTER	43
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:07 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

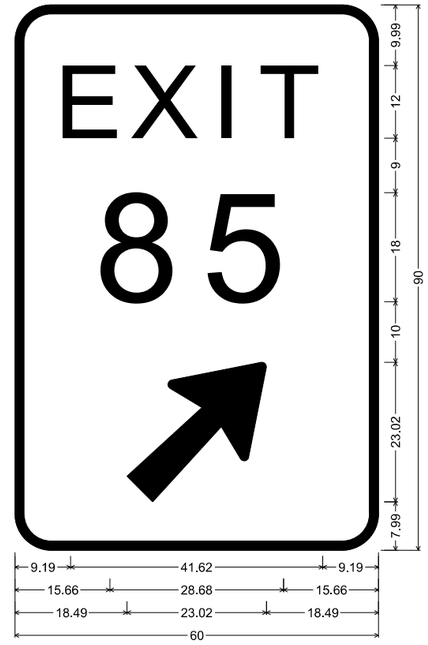
100%
SUBMITTAL

"EXIT 85", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_84x30;



E1-1a_VARx150;
12.00" Radius, 2.00" Border, White on Green;
"Durrett", ClearviewHwy-5-W-R; "Rd", ClearviewHwy-5-W-R; Arrow A-3 - 35.63" 45°;

SIGN 6



E5-1c_60x90;
6.00" Radius, 1.50" Border, White on Green;
"EXIT", ClearviewHwy-6-W;
"85", ClearviewHwy-4-W specified length;
Arrow A-2 - 29.25" 45°;

SIGN 7 11

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

SHEET 2 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	44
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:08 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9\DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

100%
SUBMITTAL

E21-4T_120x60;
2.00" Border, White on Blue;
"PICNIC AREA", ClearviewHwy-3-W; "1 MILE", ClearviewHwy-3-W;

SIGN 10

"EXIT 85", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_84x30;

E1-1a_VARx150;
12.000" Radius, 2.000" Border, White on Green;
"BUSINESS", ClearviewHwy-5-W-R; Business Loop 40 M1-2; "W EST", ClearviewHwy-5-W-R; "Amarillo", ClearviewHwy-5-W-R;
"Blvd", ClearviewHwy-5-W-R; Arrow A-3 - 35.625° 45°;

SIGN 12

STATE OF TEXAS
JUAN E. TREVIÑO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

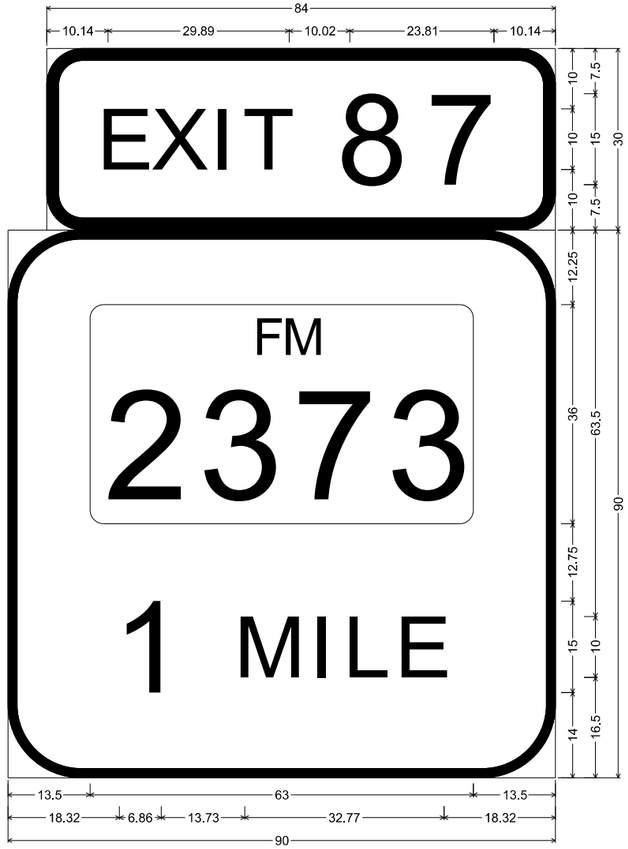
SHEET 3 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	45
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:08 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

100%
SUBMITTAL

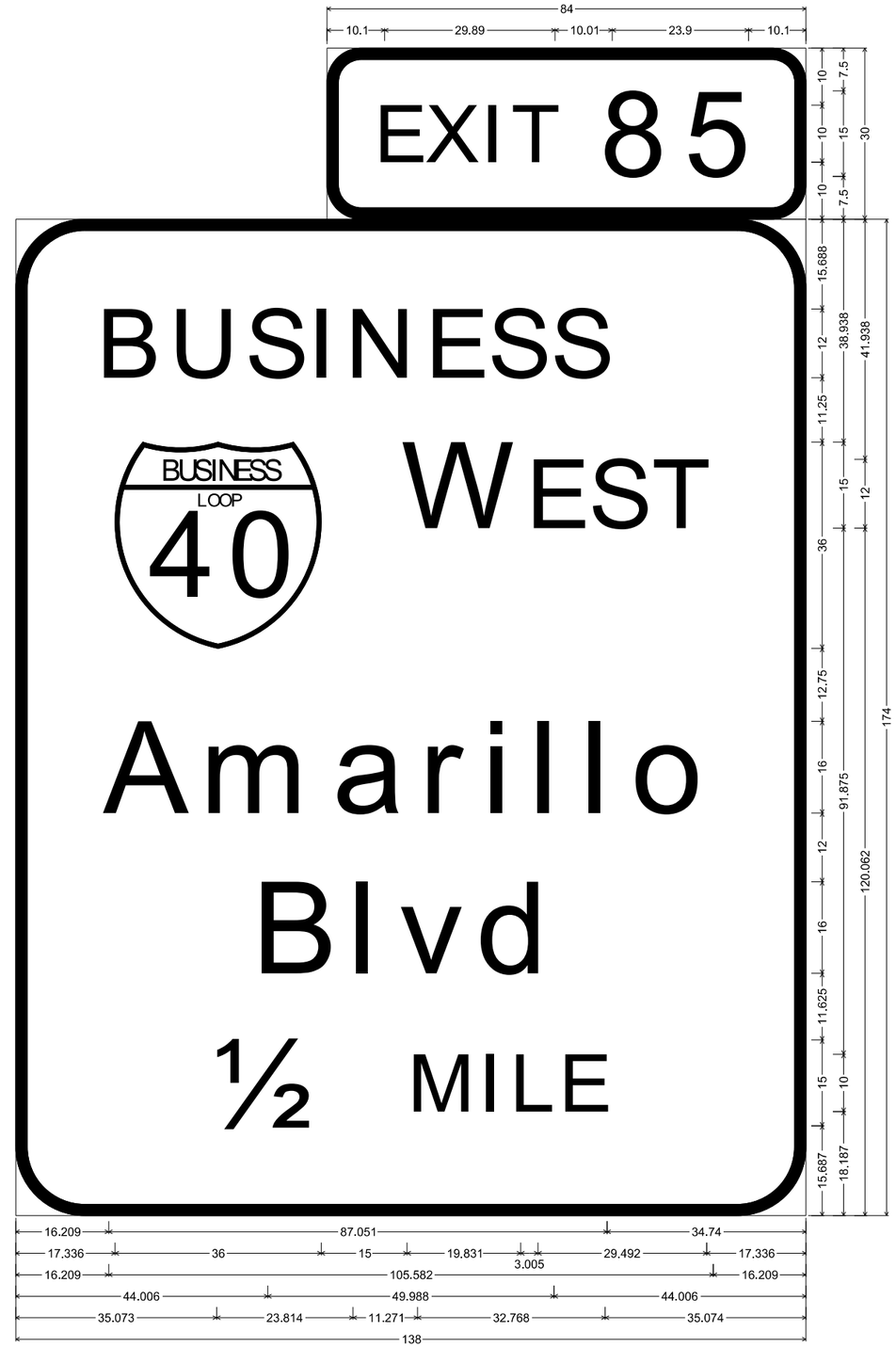
"EXIT 87", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_84x30;



E1-2_VARx120;
12.00" Radius, 1.50" Border, White on Green;
State Highway 2373 M1-6F4; "1 MILE", ClearviewHwy-5-W-R;

SIGN 13 27

"EXIT 85", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_84x30;



E1-1a_VARx150;
12.000" Radius, 2.000" Border, White on Green;
"BUSINESS", ClearviewHwy-5-W-R; Business Loop 40 M1-2; "W EST", ClearviewHwy-5-W-R; "Amarillo", ClearviewHwy-5-W-R;
"Blvd", ClearviewHwy-5-W-R; "½ MILE", ClearviewHwy-5-W-R;

SIGN 14

STATE OF TEXAS
JUAN E. TREVIÑO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

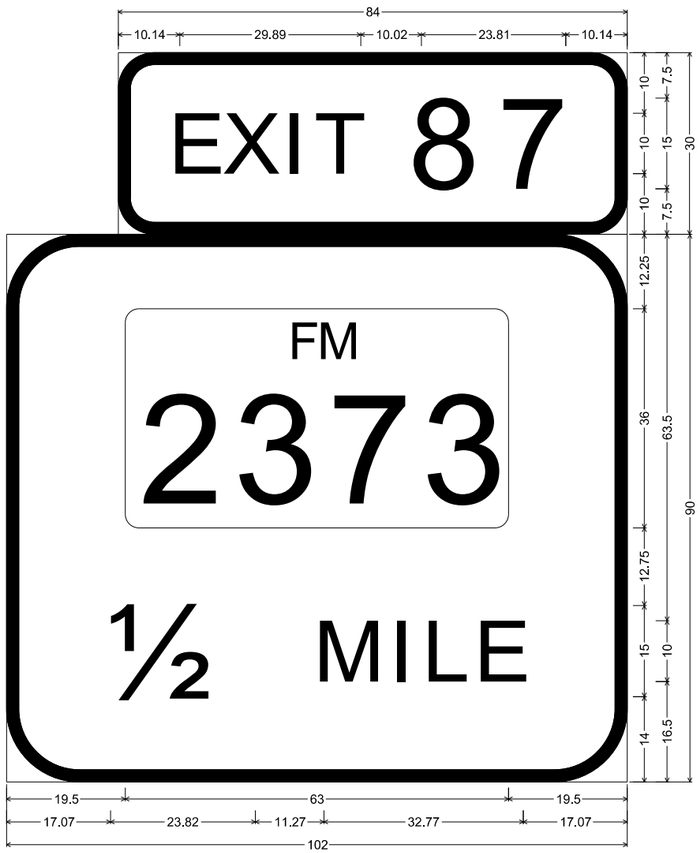
SHEET 4 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	46
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:09 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

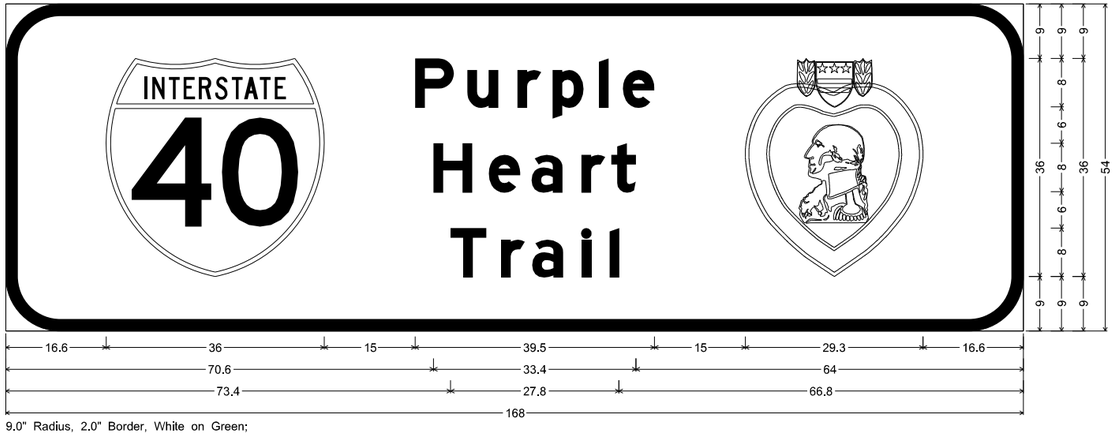
100%
SUBMITTAL

"EXIT 87", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_84x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
State Highway 2373 M1-6F4; "½ MILE", ClearviewHwy-5-W-R;

SIGN 15 25



9.0" Radius, 2.0" Border, White on Green;
Interstate 40 M1-1; [Purple] E Mod; [Heart] E Mod; [Trail] E Mod; Purple Heart logo;

SIGN 16 29

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

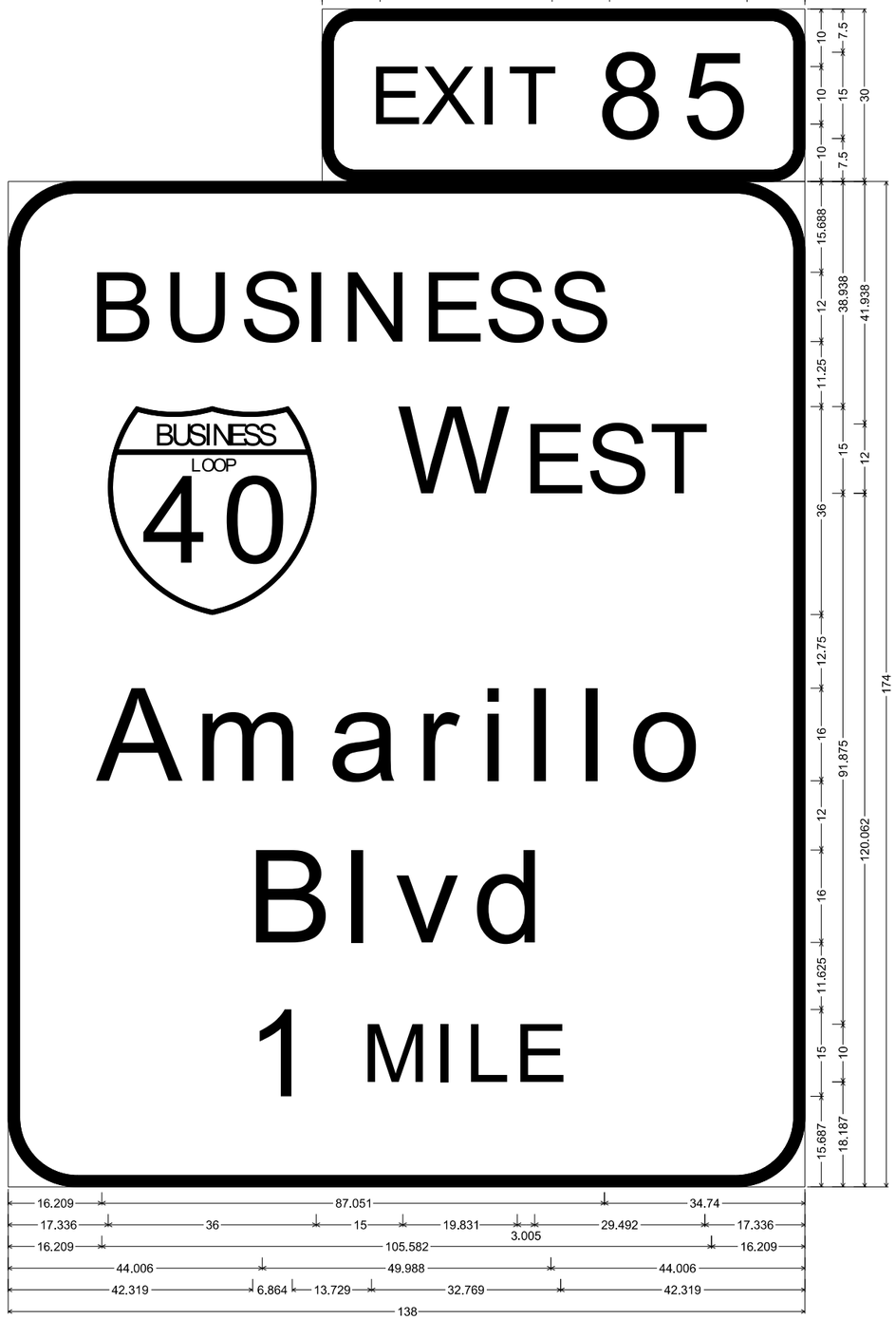
SHEET 5 OF 63

			HIGHWAY NO.
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	AMARILLO	POTTER	47
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:09 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9\DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

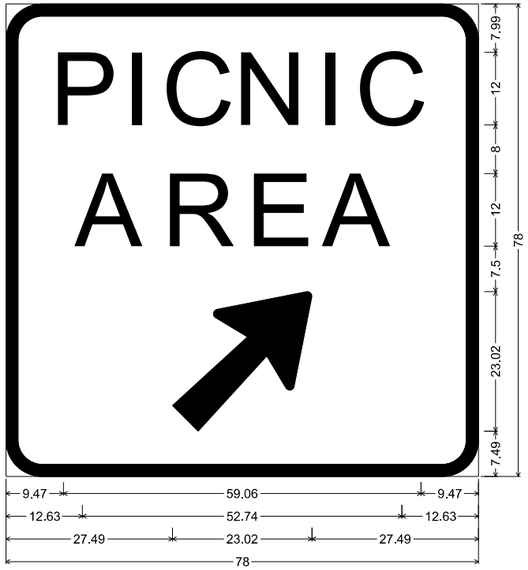
100%
SUBMITTAL

"EXIT 85", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_84x30;



SIGN 17

E1-1a_VARx150;
12.000" Radius, 2.000" Border, White on Green;
"BUSINESS", ClearviewHwy-5-W-R; Business Loop 40 M1-2; "W EST", ClearviewHwy-5-W-R; "Amarillo", ClearviewHwy-5-W-R;
"Blvd", ClearviewHwy-5-W-R; "1 MILE", ClearviewHwy-5-W-R;



E21-6T_78x78;
6.00" Radius, 2.00" Border, White on Blue;
"PICNIC", ClearviewHwy-4-W; "AREA", ClearviewHwy-6-W;
Arrow A-2 - 29.25" 45°;

SIGN 18

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

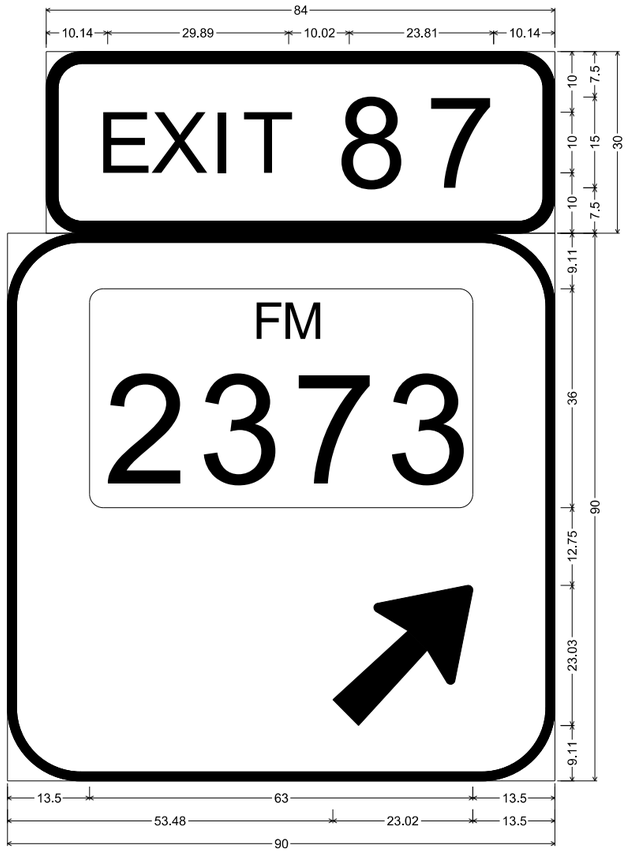
SHEET 6 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	48
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:10 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

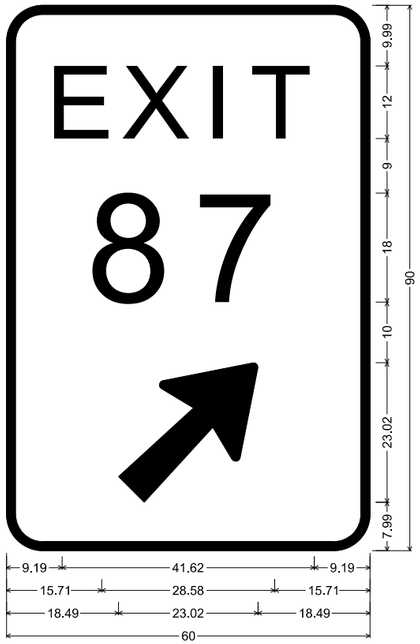
100%
SUBMITTAL

"EXIT 87", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_84x30;



E1-2_VARx120;
12.00" Radius, 1.50" Border, White on Green;
State Highway 2373 M1-6F4; Arrow A-2 - 29.25" 45°;

SIGN 19 24



E5-1c_60x90;
6.00" Radius, 1.50" Border, White on Green;
"EXIT", ClearviewHwy-6-W;
"87", ClearviewHwy-4-W specified length;
Arrow A-2 - 29.25" 45°;

SIGN 20 23

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

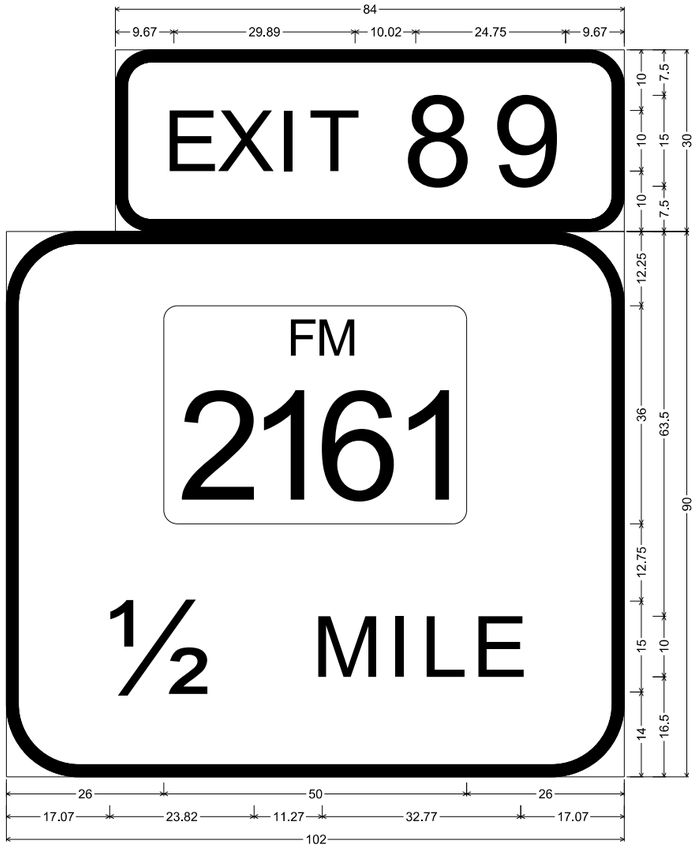
SHEET 7 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	49
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:10 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9\DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

100%
SUBMITTAL

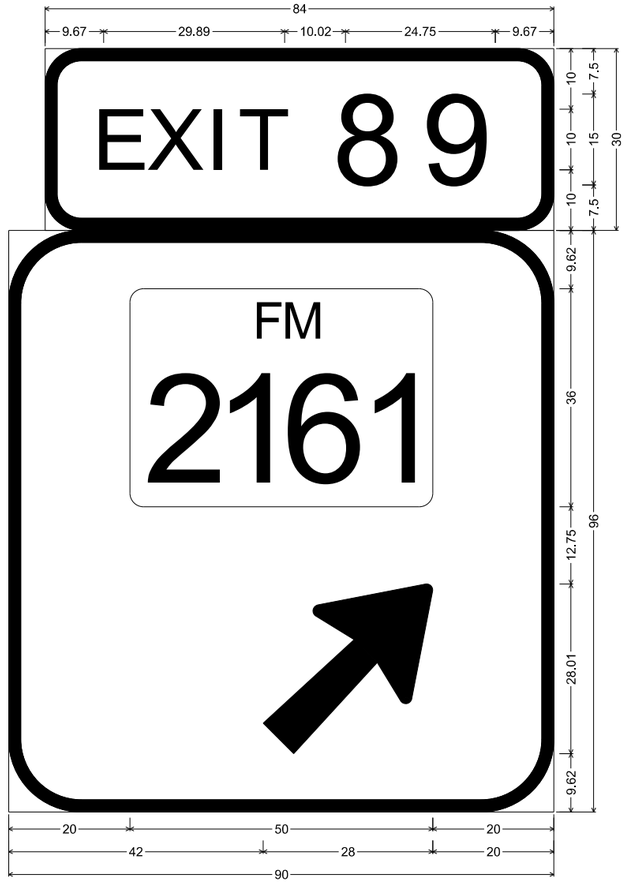
"EXIT 89", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_84x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
State Highway 2161 M1-6F4; "½ MILE", ClearviewHwy-5-W-R;

SIGN 26 35

"EXIT 89", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_84x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
State Highway 2161 M1-6F4; Arrow A-3 - 35.63° 45°;

SIGN 28 34

STATE OF TEXAS
JUAN E. TREVIÑO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

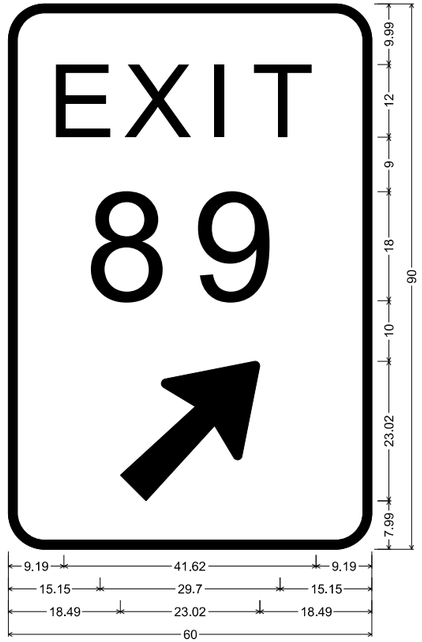
LARGE SIGN DETAILS

SHEET 8 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	50
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:11 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9\DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

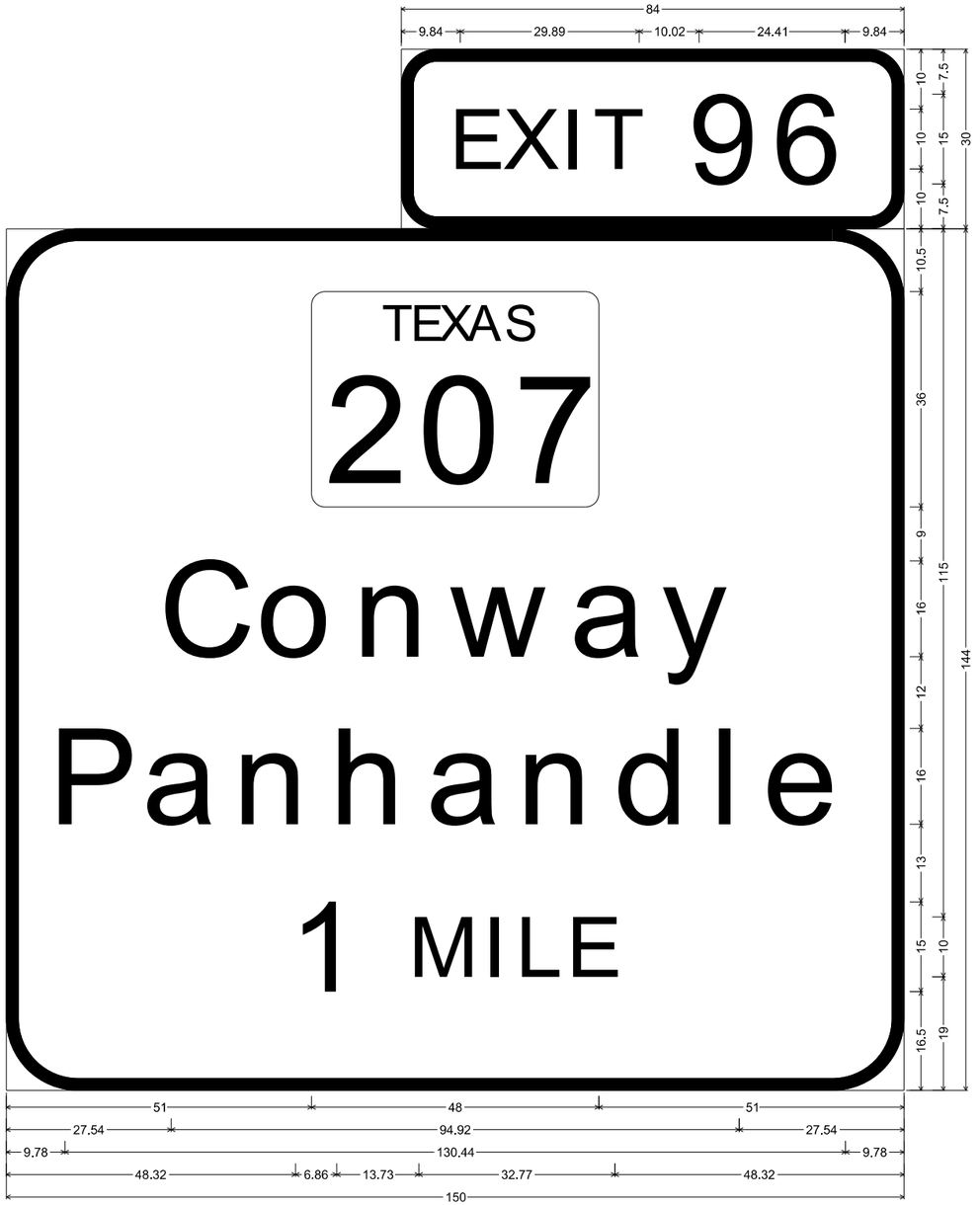
100%
SUBMITTAL



E5-1c_60x90;
6.00" Radius, 1.50" Border, White on Green;
"EXIT", ClearviewHwy-6-W;
"89", ClearviewHwy-4-W specified length;
Arrow A-2 - 29.25" 45°;

SIGN 30 33

"EXIT 96", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_84x30;



E1-1a_VARx150;
12.00" Radius, 2.00" Border, White on Green;
State Highway 207 M1-6T3; "Conway", ClearviewHwy-5-W-R; "Panhandle", ClearviewHwy-5-W-R; "1 MILE", ClearviewHwy-5-W-R;

SIGN 44 63

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

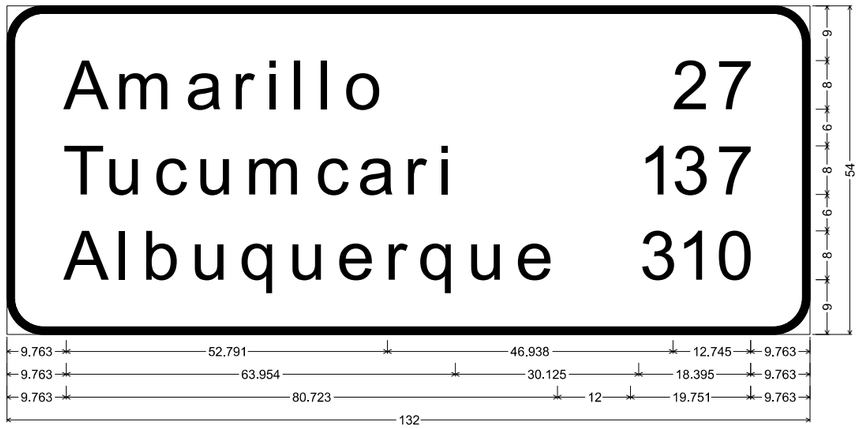
LARGE SIGN DETAILS

SHEET 9 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	51
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:11 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

100%
SUBMITTAL



E7-3T_VARx54;
6.000" Radius, 1.250" Border, White on Green;
"Amarillo", ClearviewHwy-5-W-R; "27", ClearviewHwy-5-W-R; "Tucumcari", ClearviewHwy-5-W-R; "137", ClearviewHwy-5-W-R;
"Albuquerque", ClearviewHwy-5-W-R; "310", ClearviewHwy-5-W-R;

SIGN 45

STATE OF TEXAS
JUAN E. TREVIÑO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N. T. S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

SHEET 10 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	52
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:12 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

100%
SUBMITTAL

"EXIT 96", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_84x30;

E1-1a_VARx150;
12.00" Radius, 2.00" Border, White on Green;
State Highway 207 M1-6T3; "Conway", ClearviewHwy-5-W-R; "Panhandle", ClearviewHwy-5-W-R; "½ MILE", ClearviewHwy-5-W-R;

SIGN 46 55

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

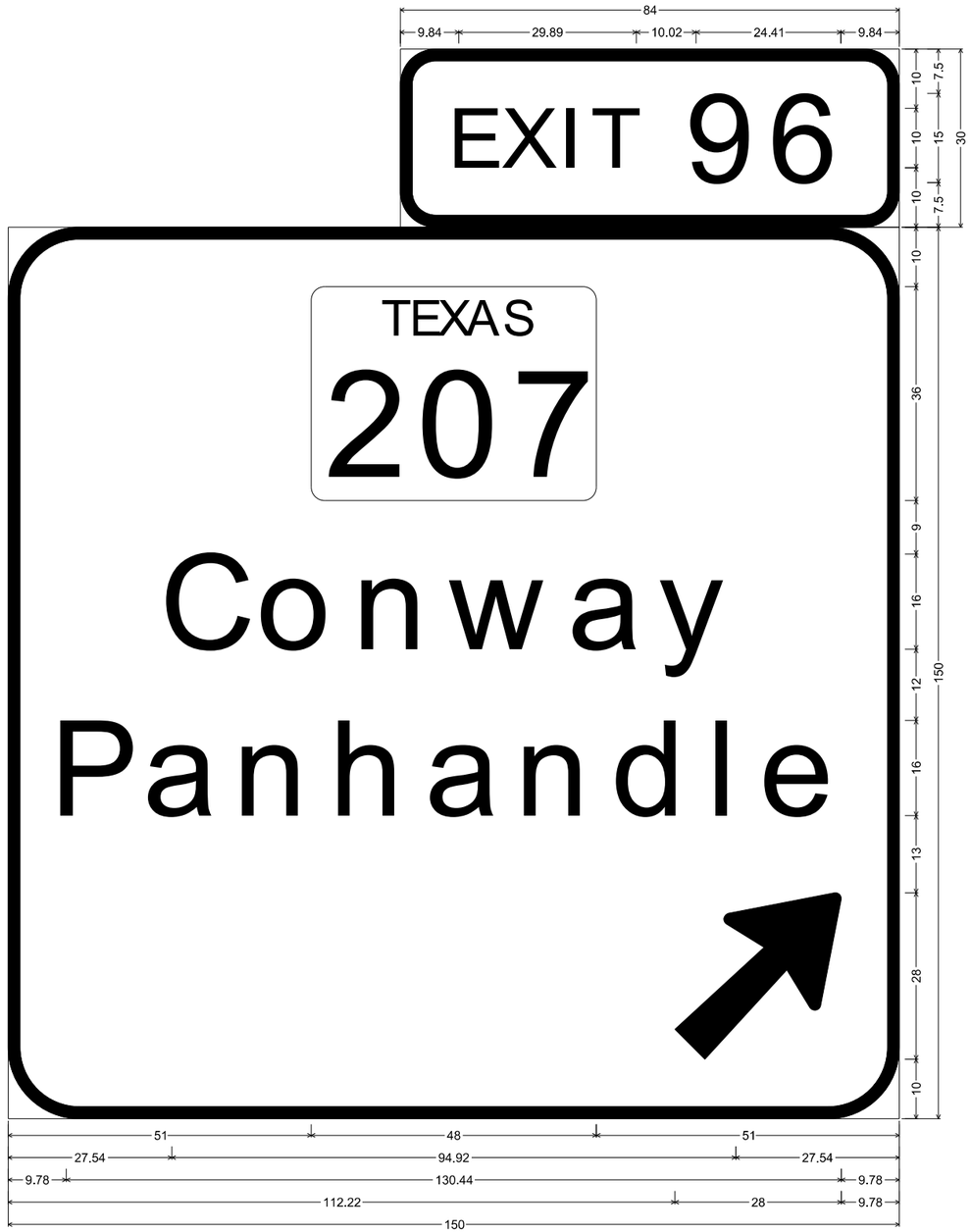
SHEET 11 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	53
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:12 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9\DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

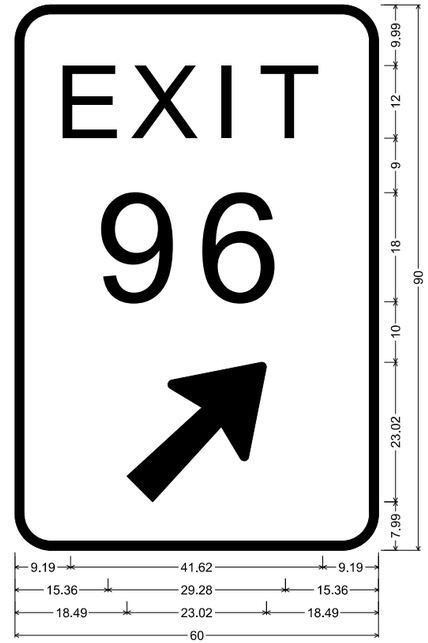
100%
SUBMITTAL

"EXIT 96", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_84x30;



E1-1a_VARx150;
12.00" Radius, 2.00" Border, White on Green;
State Highway 207 M1-6T3; "Conway", ClearviewHwy-5-W-R; "Panhandle", ClearviewHwy-5-W-R; Arrow A-3 - 35.63" 45°;

SIGN 47 54



E5-1c_60x90;
6.00" Radius, 1.50" Border, White on Green;
"EXIT", ClearviewHwy-6-W;
"96", ClearviewHwy-4-W specified length;
Arrow A-2 - 29.25" 45°;

SIGN 48 53

STATE OF TEXAS
JUAN E. TREVIÑO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

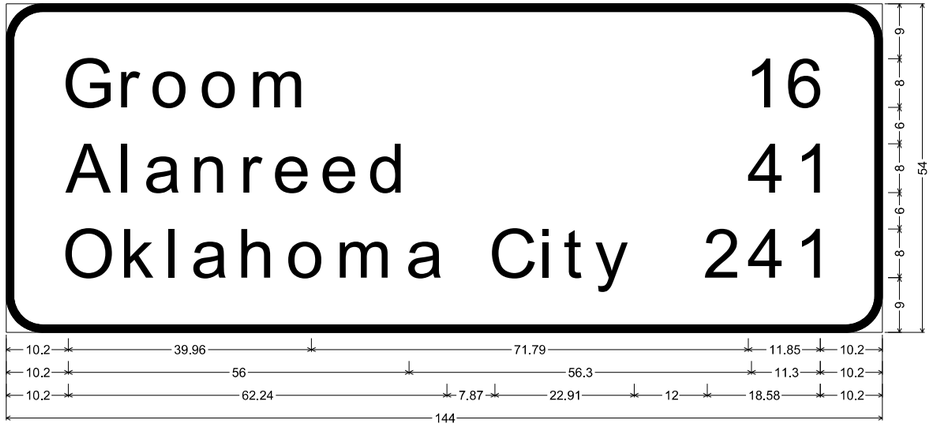
LARGE SIGN DETAILS

SHEET 12 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	54
CONTROL	SECTION	JOB	
0904	00	223	

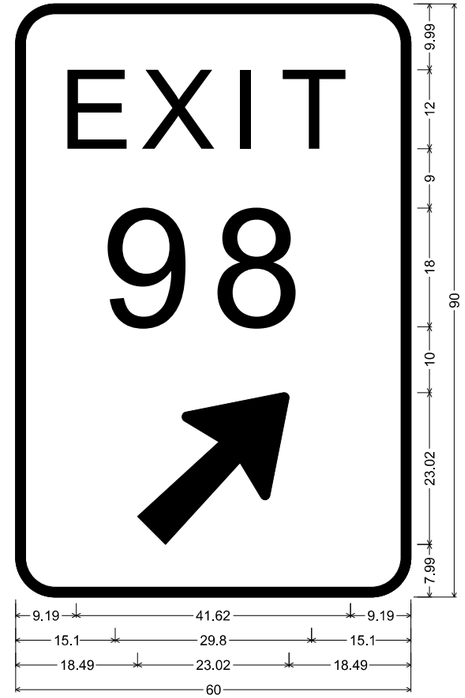
9/20/2023 7:04:12 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

100%
SUBMITTAL



E7-3T_VARx54;
6.00" Radius, 1.25" Border, White on Green;
"Groom", ClearviewHwy-5-W-R; "16", ClearviewHwy-5-W-R; "Alanreed", ClearviewHwy-5-W-R; "41", ClearviewHwy-5-W-R;
"Oklahoma City", ClearviewHwy-5-W-R; "241", ClearviewHwy-5-W-R;

SIGN 56



E5-1c_60x90;
6.00" Radius, 1.50" Border, White on Green;
"EXIT", ClearviewHwy-6-W;
"98", ClearviewHwy-4-W specified length;
Arrow A-2 - 29.25" 45°;

SIGN 61

STATE OF TEXAS
JUAN E. TREVIÑO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

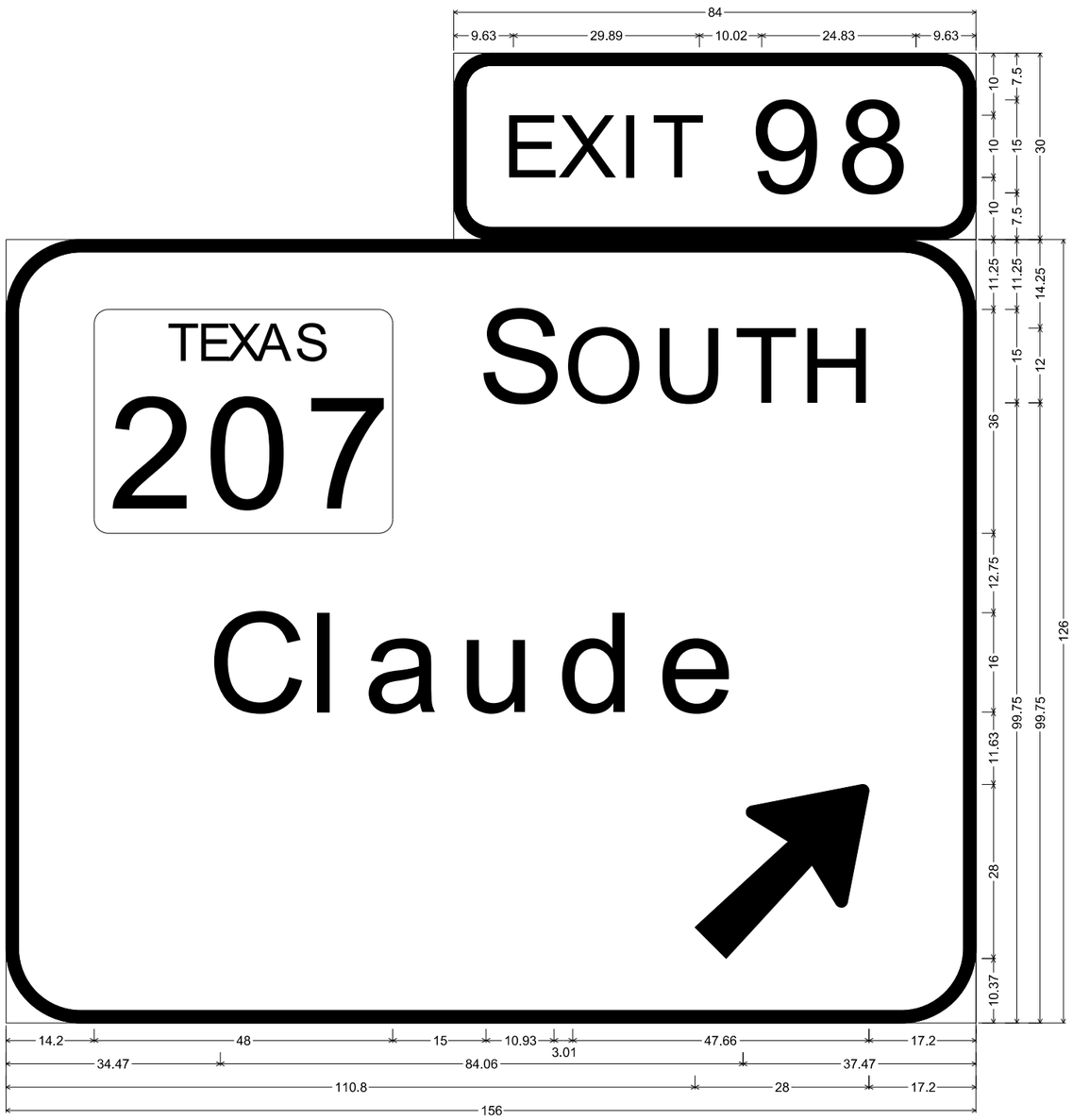
SHEET 13 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	55
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:13 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

100%
SUBMITTAL

"EXIT 98", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, Whlte on Green;
E1-5P_84x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
State Highway 207 M1-6T3; "S OUTH", ClearviewHwy-5-W-R; "Claude", ClearviewHwy-5-W-R; Arrow A-3 - 35.63" 45°;

SIGN 62

JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
STATE OF TEXAS

9/21/2023

SCALE: N. T. S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

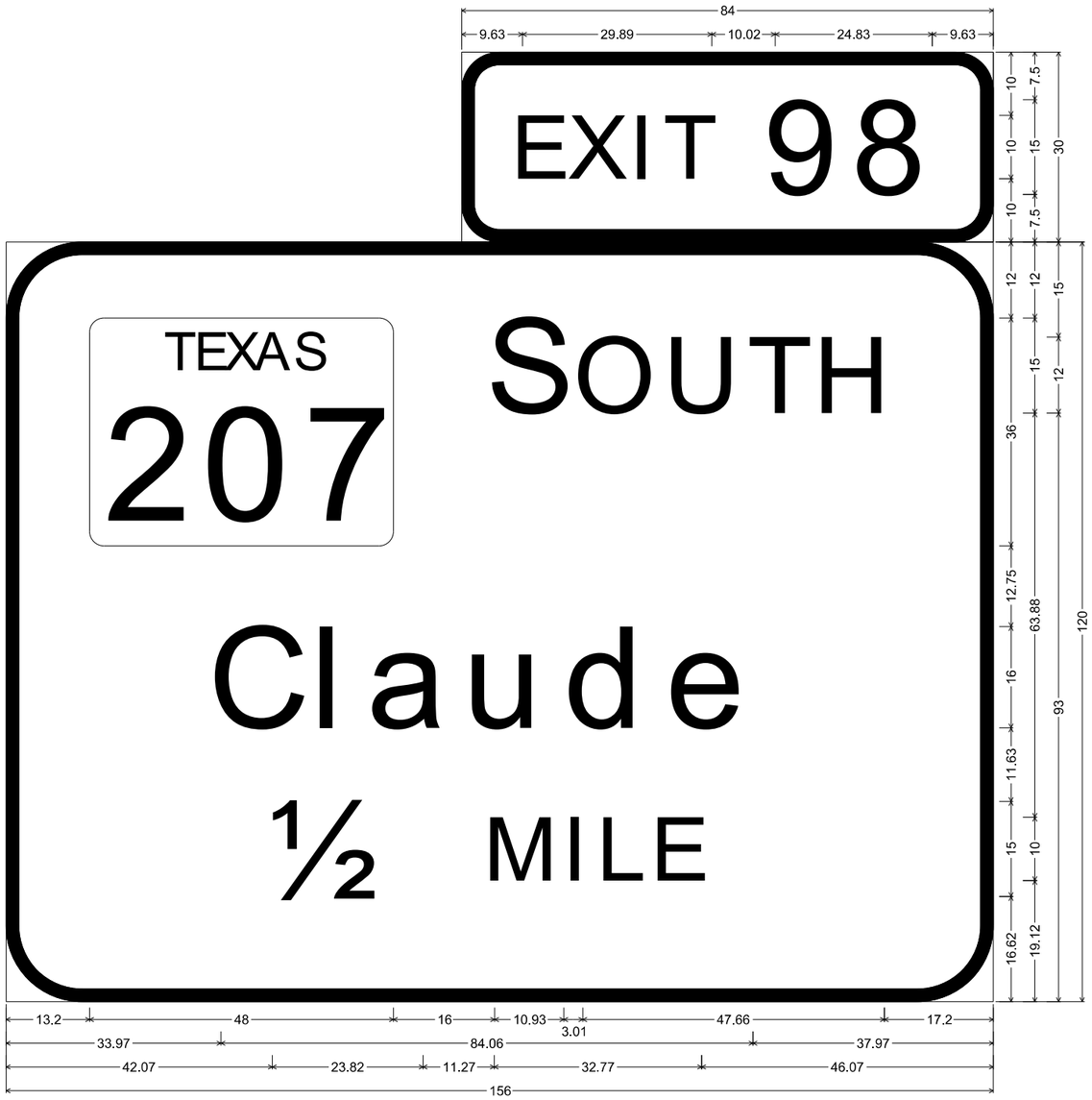
SHEET 14 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	56
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:13 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

100%
SUBMITTAL

"EXIT 98", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, Whlte on Green;
E1-5P_84x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
State Highway 207 M1-6T3; "S OUTH", ClearviewHwy-5-W-R; "Claude", ClearviewHwy-5-W-R; "½ MILE", ClearviewHwy-5-W-R;

SIGN 64

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

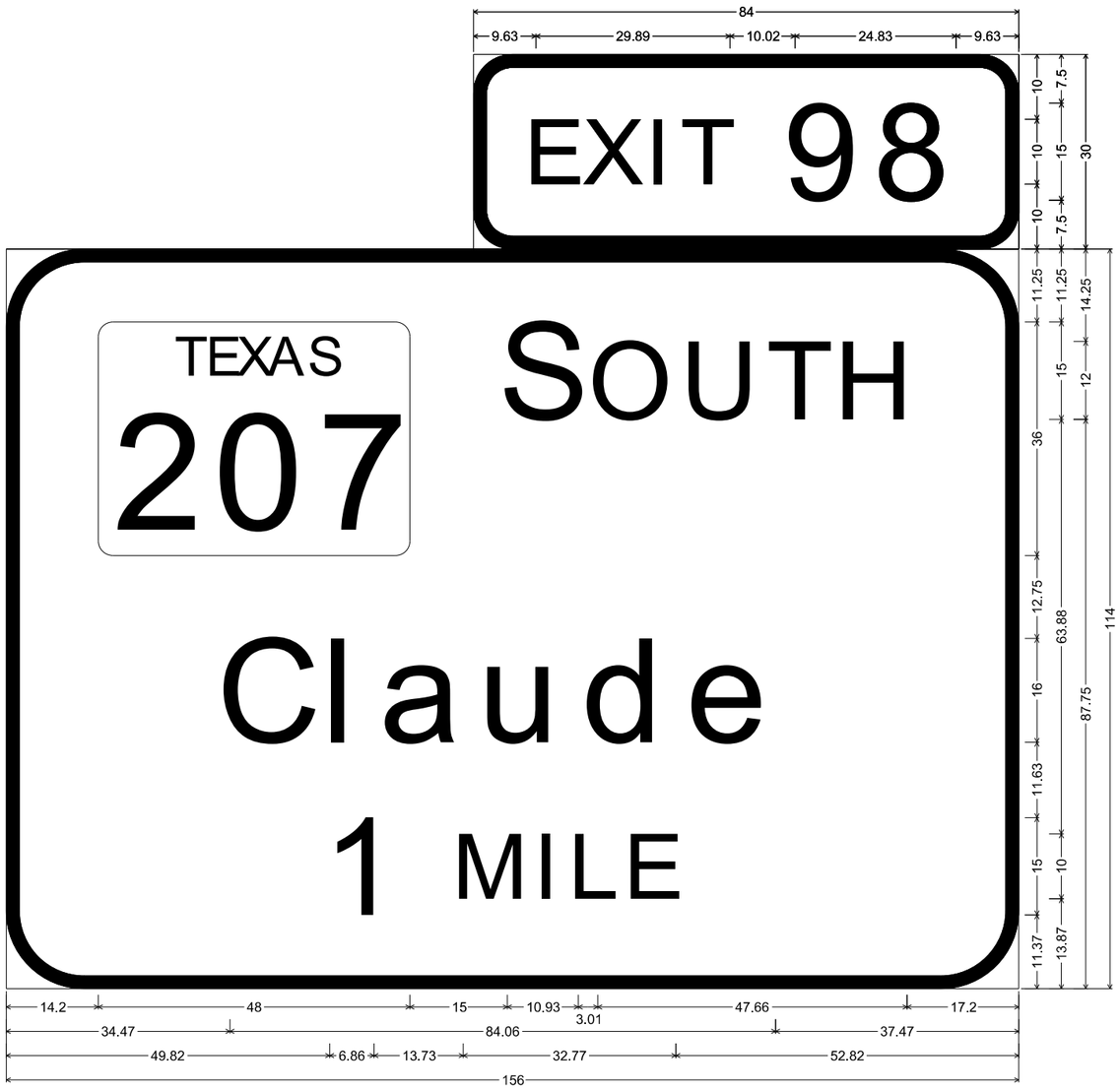
SHEET 15 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	57
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:14 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9\DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

100%
SUBMITTAL

"EXIT 98", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, Whlte on Green;
E1-5P_84x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
State Highway 207 M1-6T3; "S OUTH", ClearviewHwy-5-W-R; "Claude", ClearviewHwy-5-W-R; "1 MILE", ClearviewHwy-5-W-R;

SIGN 65

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

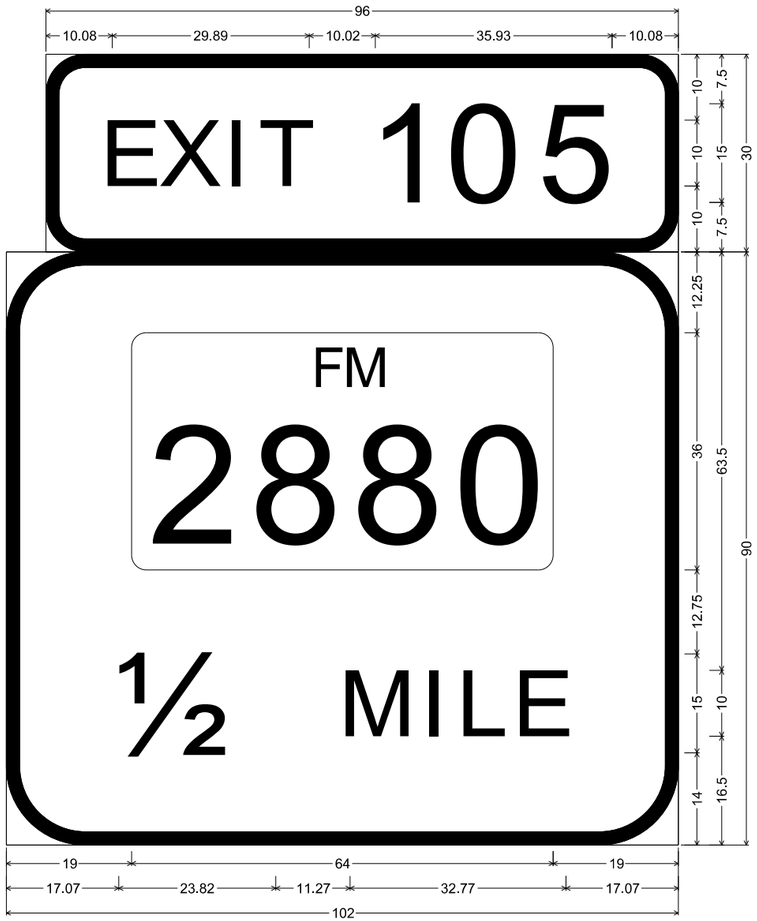
SHEET 16 OF 63

			HIGHWAY NO.
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	AMARILLO	POTTER	58
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:14 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

100%
SUBMITTAL

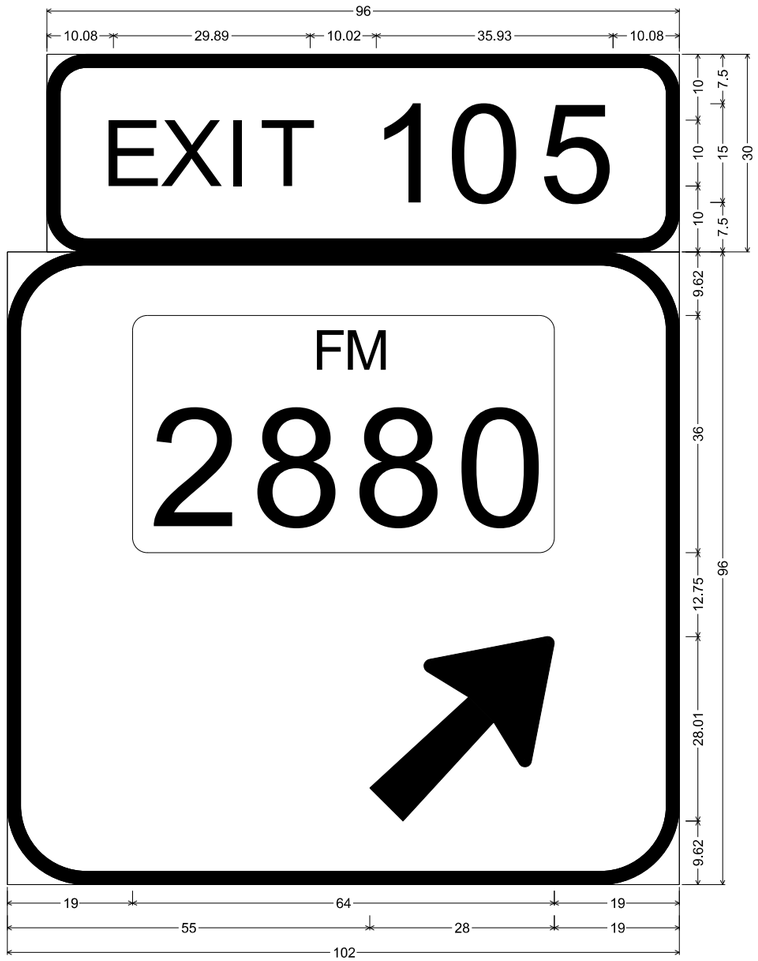
"EXIT 105", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, Whlte on Green;
E1-5P_96x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
State Highway 2880 M1-6F4; "½ MILE", ClearviewHwy-5-W-R;

SIGN 70 77

"EXIT 105", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, Whlte on Green;
E1-5P_96x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
State Highway 2880 M1-6F4; Arrow A-3 - 35.63" 45°;

SIGN 71 76

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

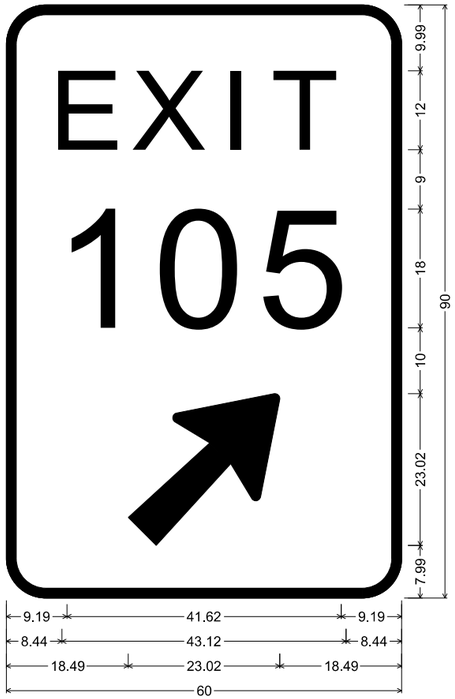
LARGE SIGN DETAILS

SHEET 17 OF 63

			HIGHWAY NO.
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	AMARILLO	POTTER	59
CONTROL	SECTION	JOB	
0904	00	223	

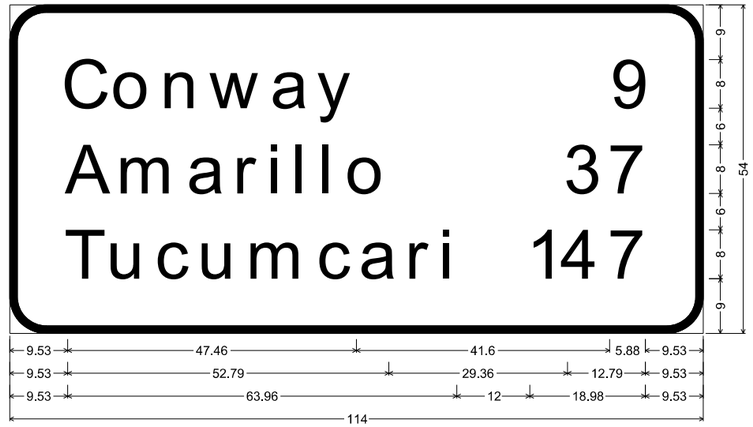
9/20/2023 7:04:22 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

100%
SUBMITTAL



E5-1c_60x90;
6.00" Radius, 1.50" Border, White on Green;
"EXIT", ClearviewHwy-6-W;
"105", ClearviewHwy-4-W specified length;
Arrow A-2 - 29.25" 45°;

SIGN 72 75



E7-3T_VARx54;
6.00" Radius, 1.25" Border, White on Green;
"Conway", ClearviewHwy-5-W-R; "9", ClearviewHwy-5-W-R; "Amarillo", ClearviewHwy-5-W-R;
"37", ClearviewHwy-5-W-R; "Tucumcari", ClearviewHwy-5-W-R; "147", ClearviewHwy-5-W-R;

SIGN 78

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

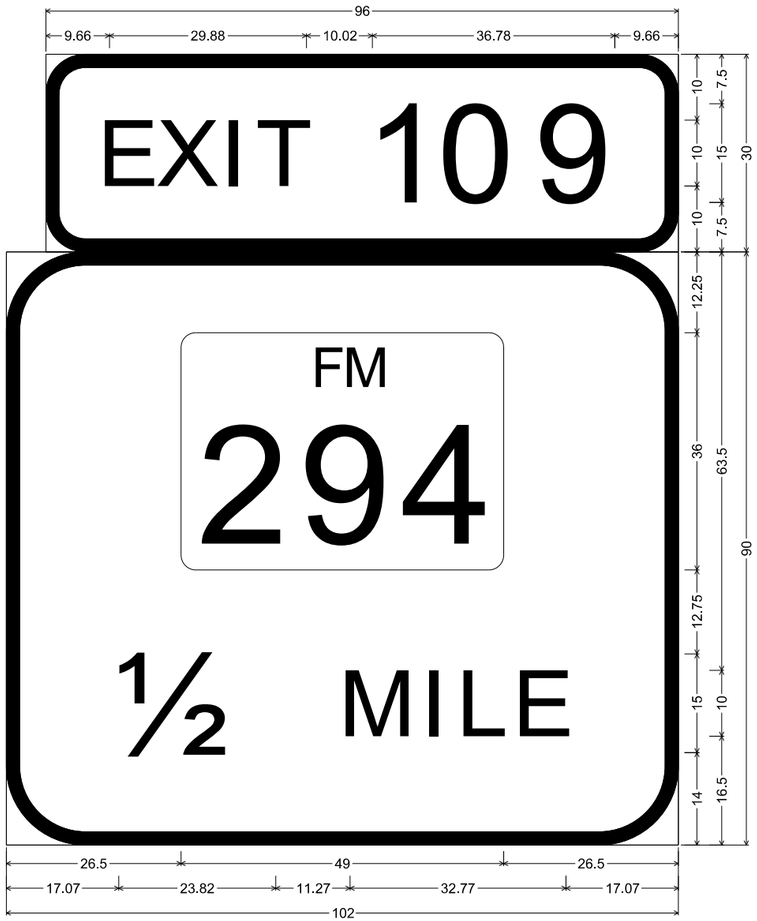
SHEET 18 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	60
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:23 PM
Z:\Transportation\TxDOT\PSGE\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

100%
SUBMITTAL

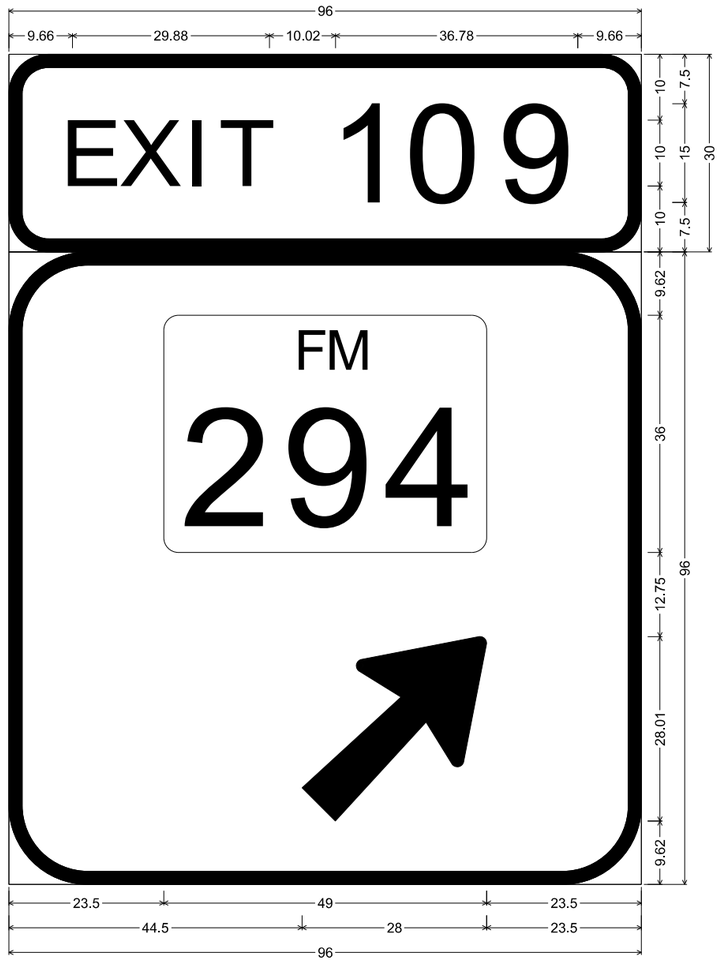
"EXIT 109", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, Whlte on Green;
E1-5P_96x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
State Highway 294 M1-6F3; "½ MILE", ClearviewHwy-5-W-R;

SIGN 79 88

"EXIT 109", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, Whlte on Green;
E1-5P_96x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
State Highway 294 M1-6F3; Arrow A-3 - 35.63° 45°;

SIGN 80 86

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

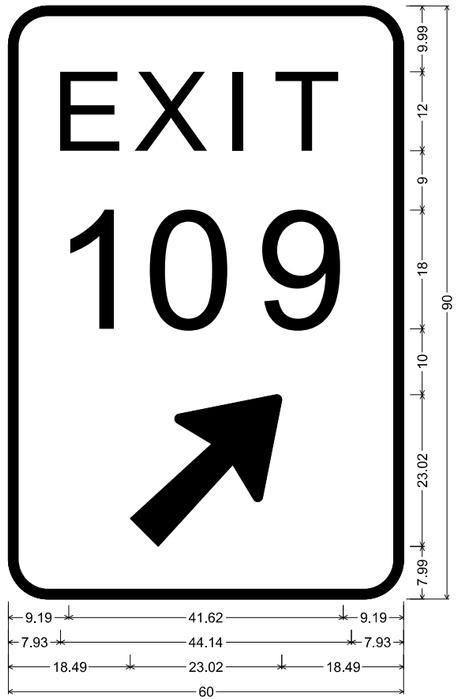
LARGE SIGN DETAILS

SHEET 19 OF 63

			HIGHWAY NO.
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	AMARILLO	POTTER	61
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:23 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

100%
SUBMITTAL



E5-1c_60x90;
6.00" Radius, 1.50" Border, White on Green;
"EXIT", ClearviewHwy-6-W;
"109", ClearviewHwy-4-W specified length;
Arrow A-2 - 29.25" 45°;

SIGN 81 85

"EXIT 110", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;

E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
"BUSINESS", ClearviewHwy-5-W-R; Business Loop 40 M1-2; "E AST", ClearviewHwy-5-W-R; "Groom", ClearviewHwy-5-W-R;
"1 MILE", ClearviewHwy-5-W-R;

SIGN 84

JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
STATE OF TEXAS

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

SHEET 20 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	
CONTROL	SECTION	JOB	62
0904	00	223	

9/20/2023 7:04:23 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\VA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

100%
SUBMITTAL

"EXIT 110", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;

E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
"BUSINESS", ClearviewHwy-5-W-R; Business Loop 40 M1-2; "E AST", ClearviewHwy-5-W-R; "Groom", ClearviewHwy-5-W-R;
"½ MILE", ClearviewHwy-5-W-R;

SIGN 87

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

SHEET 21 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	63
CONTROL	SECTION	JOB	
0904	00	223	

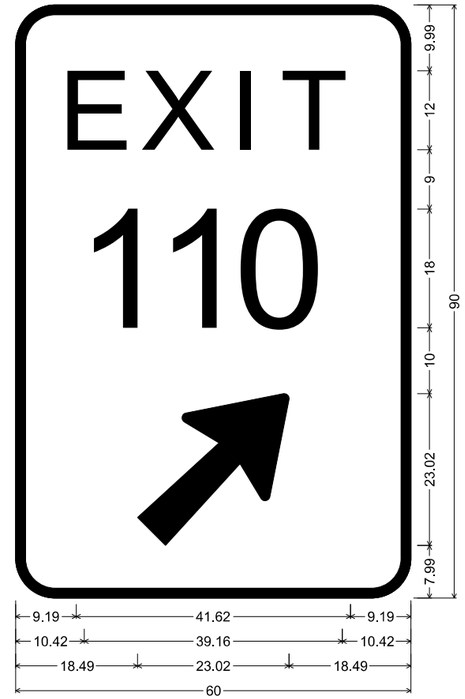
9/20/2023 7:04:24 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9\DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

100%
SUBMITTAL

"EXIT 110", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;

E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
"BUSINESS", ClearviewHwy-5-W-R; Business Loop 40 M1-2; "E AST", ClearviewHwy-5-W-R; "Groom", ClearviewHwy-5-W-R;
Arrow A-3 - 35.63" 45°;

SIGN 89



E5-1c_60x90;
6.00" Radius, 1.50" Border, White on Green;
"EXIT", ClearviewHwy-6-W;
"110", ClearviewHwy-4-W specified length;
Arrow A-2 - 29.25" 45°;

SIGN 90 91

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
NOT LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

SHEET 22 OF 63

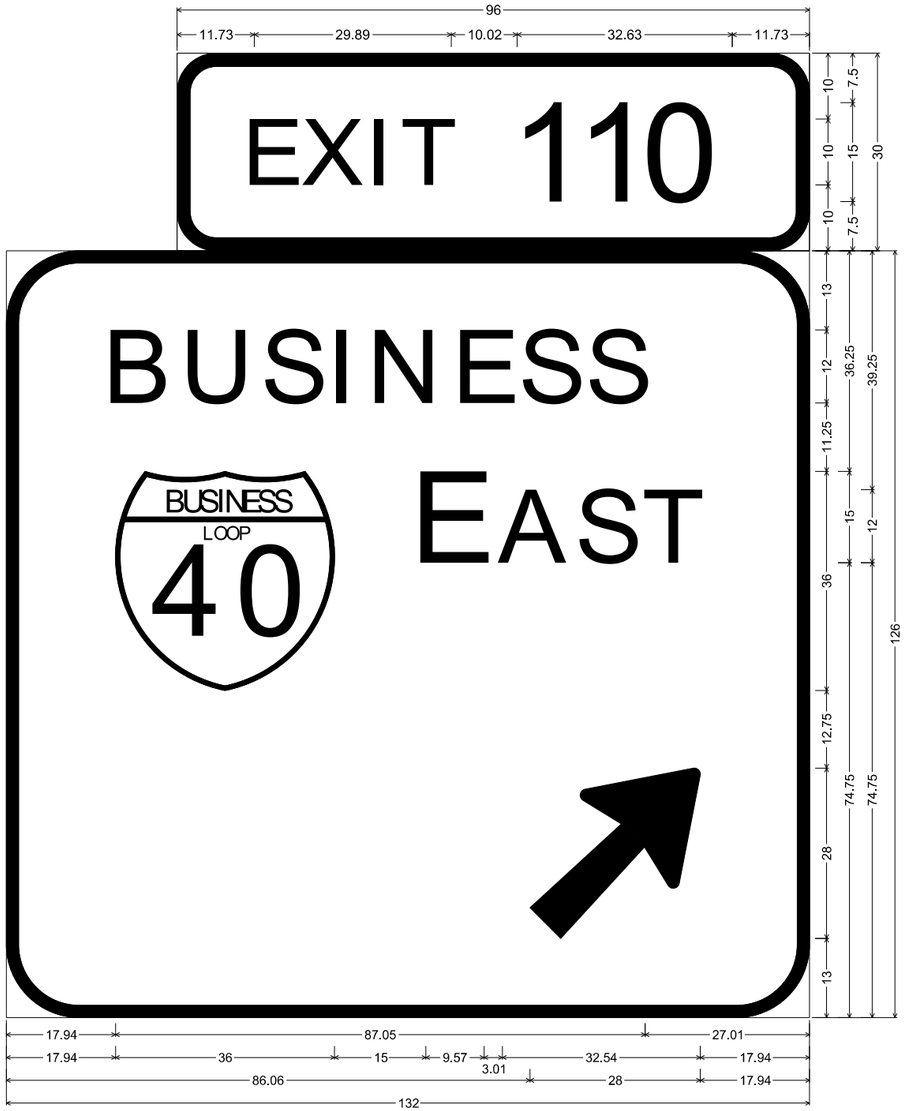
			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	64
CONTROL	SECTION	JOB	
0904	00	223	

AMA03_SGDTL_01.dgn

9/20/2023 7:04:24 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

100%
SUBMITTAL

"EXIT 110", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
"BUSINESS", ClearviewHwy-5-W-R; Business Loop 40 M1-2; "E AST", ClearviewHwy-5-W-R; Arrow A-3 - 35.63" 45°;

SIGN 92

JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
STATE OF TEXAS

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

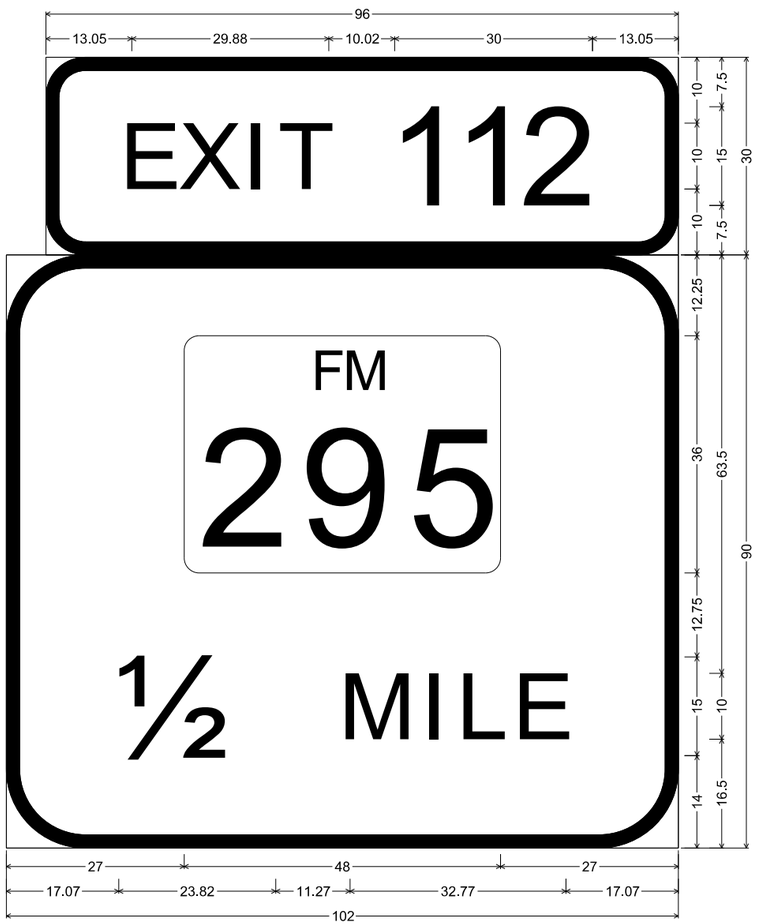
SHEET 23 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	65
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:25 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

100%
SUBMITTAL

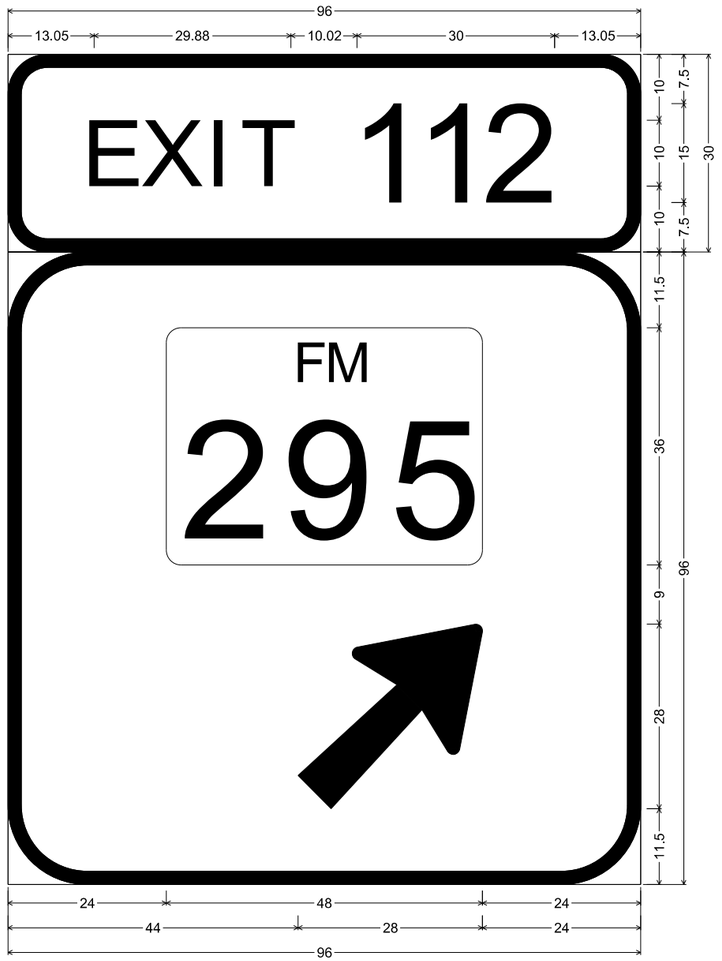
"EXIT 112", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, WhIte on Green;
E1-5P_96x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
State Highway 295 M1-6F3; "½ MILE", ClearviewHwy-5-W-R;

SIGN 93

"EXIT 112", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
State Highway 295 M1-6F3; Arrow A-3 - 35.63° 45°;

SIGN 94 99

STATE OF TEXAS
JUAN E. TREVIÑO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

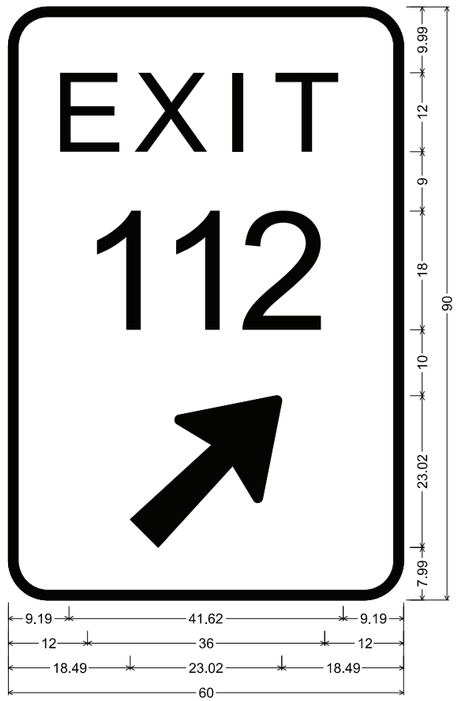
LARGE SIGN DETAILS

SHEET 24 OF 63

			HIGHWAY NO.
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	AMARILLO	POTTER	66
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:25 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

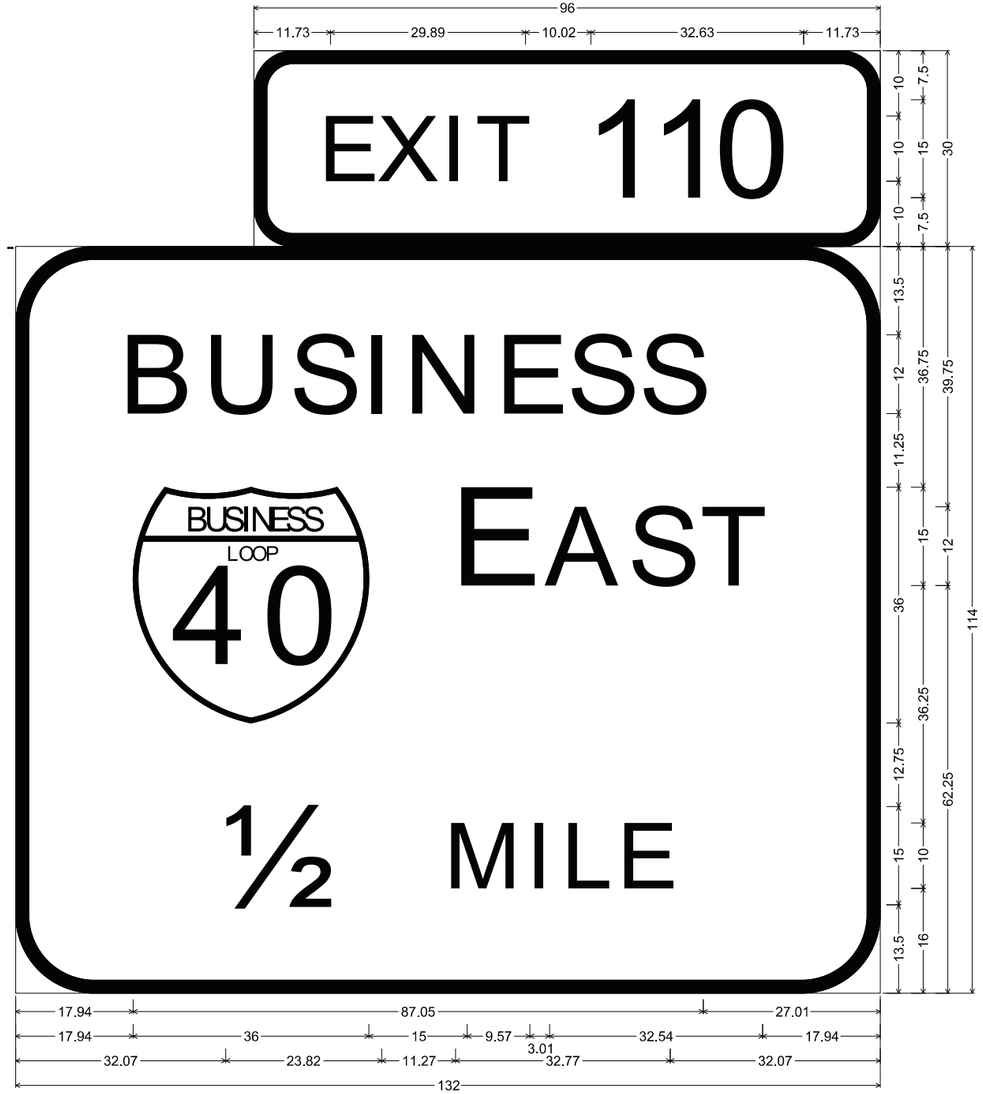
100%
SUBMITTAL



E5-1c_60x90;
6.00" Radius, 1.50" Border, White on Green;
"EXIT", ClearviewHwy-6-W;
"112", ClearviewHwy-4-W specified length;
Arrow A-2 - 29.25" 45°;

SIGN 95 98

"EXIT 110", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
"BUSINESS", ClearviewHwy-5-W-R; Business Loop 40 M1-2; "E AST", ClearviewHwy-5-W-R; "½ MILE", ClearviewHwy-5-W-R;

SIGN 96

STATE OF TEXAS
JUAN E. TREVIÑO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
10/26/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

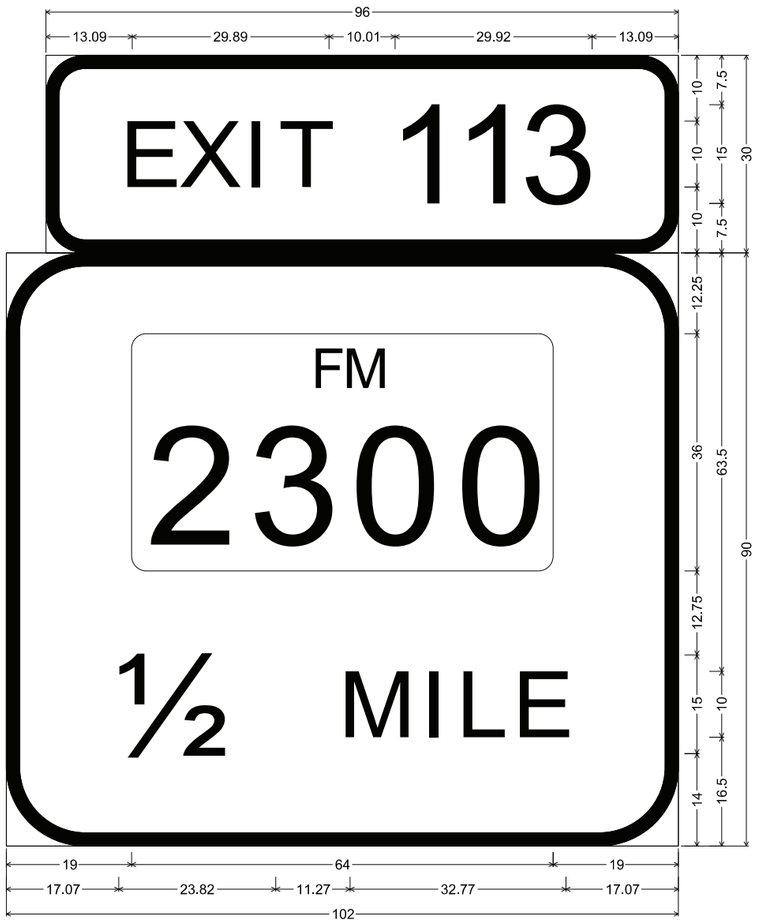
SHEET 25 OF 63

			HIGHWAY NO.
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	AMARILLO	POTTER	67
CONTROL	SECTION	JOB	
0904	00	223	

10/26/2023 6:00:57 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

100%
SUBMITTAL

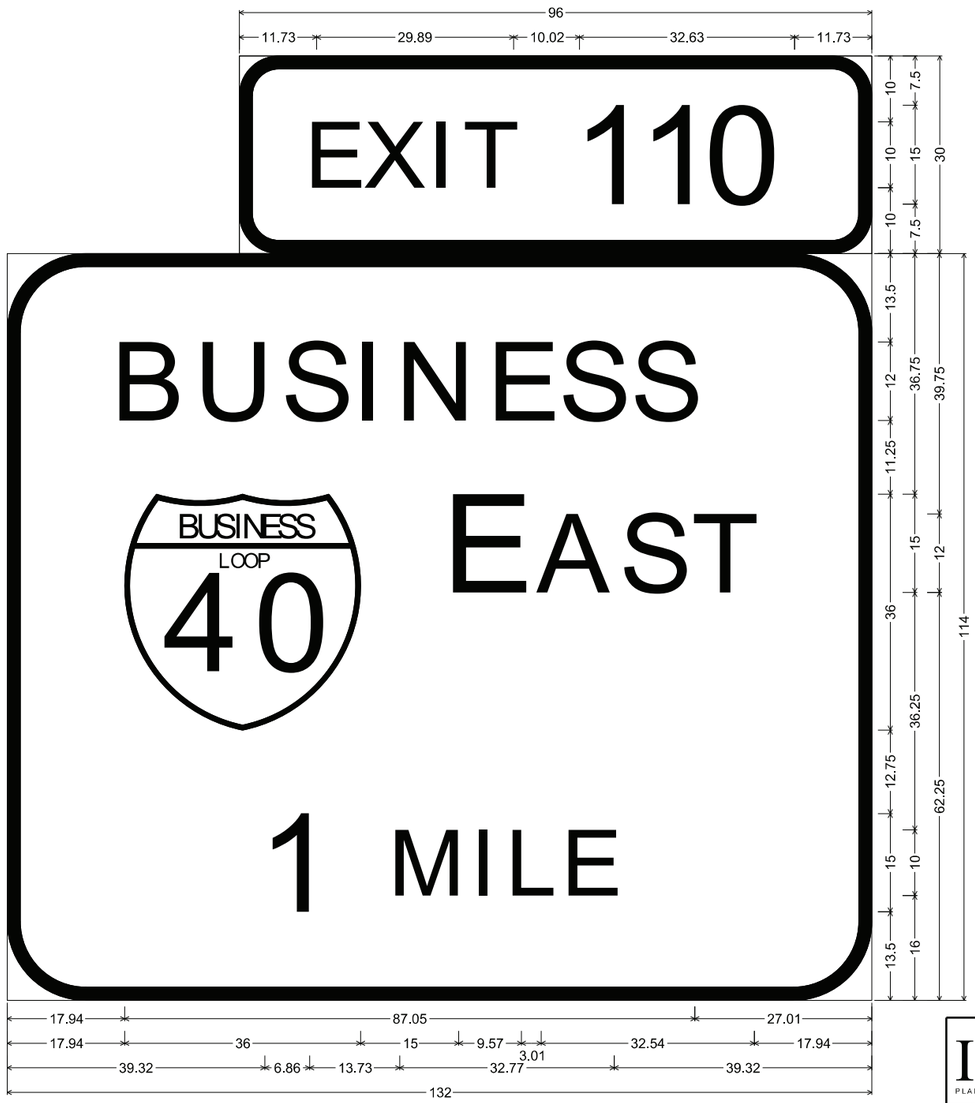
"EXIT 113", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, Whlte on Green;
E1-5P_96x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
State Highway 2300 M1-6F4; "½ MILE", ClearviewHwy-5-W-R;

SIGN 97 112

"EXIT 110", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
"BUSINESS", ClearviewHwy-5-W-R; Business Loop 40 M1-2; "E AST", ClearviewHwy-5-W-R; "1 MILE", ClearviewHwy-5-W-R;

SIGN 100

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
10/26/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

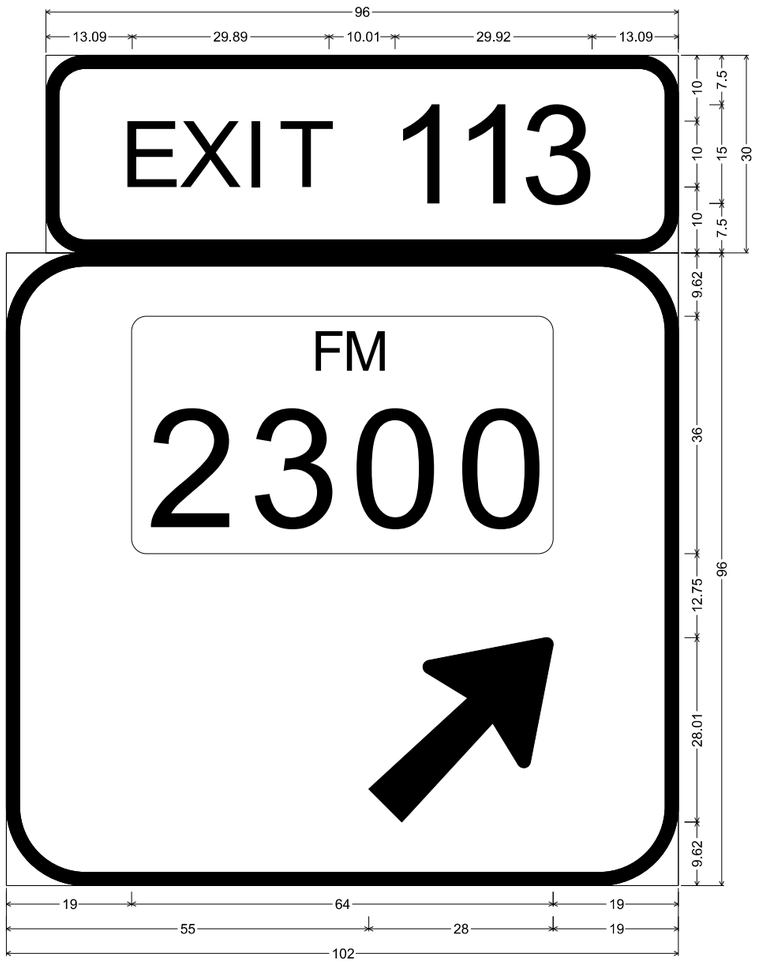
SHEET 26 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	68
CONTROL	SECTION	JOB	
0904	00	223	

10/26/2023 6:00:57 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9\DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

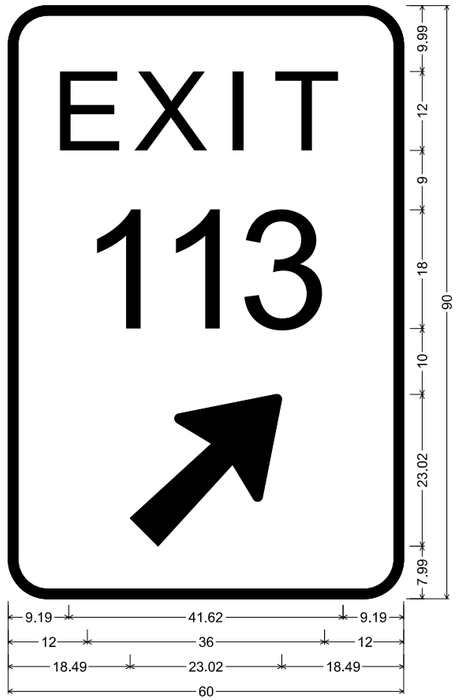
100%
SUBMITTAL

"EXIT 113", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, Whlte on Green;
E1-5P_96x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
State Highway 2300 M1-6F4; Arrow A-3 - 35.63" 45°;

SIGN 101 107



E5-1c_60x90;
6.00" Radius, 1.50" Border, White on Green;
"EXIT", ClearviewHwy-6-W;
"112", ClearviewHwy-4-W specified length;
Arrow A-2 - 29.25" 45°;

SIGN 102 106

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

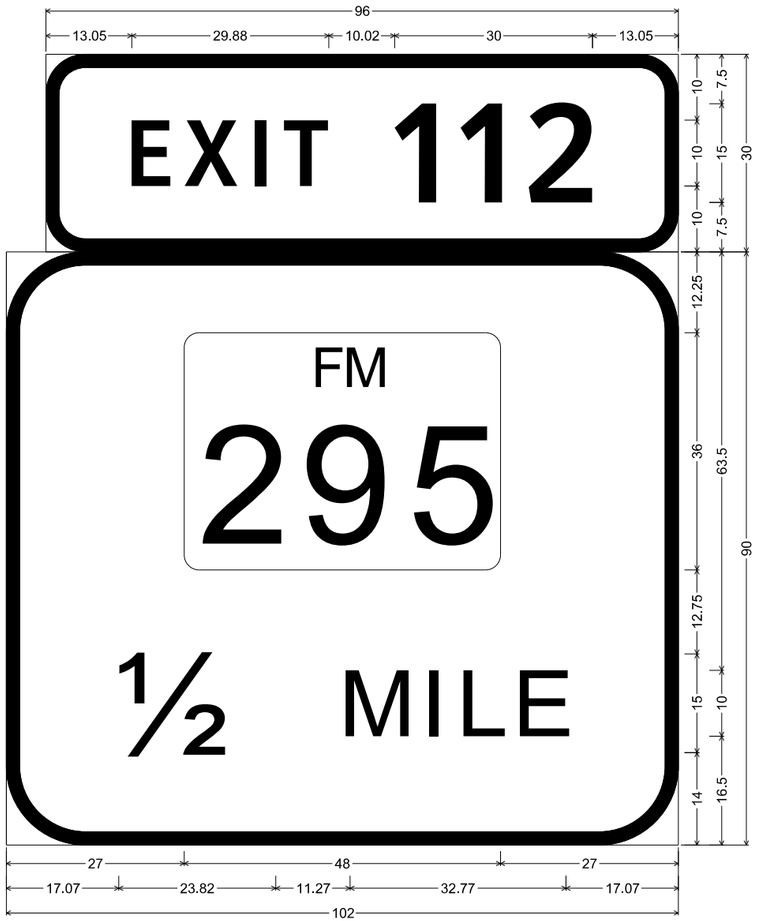
SHEET 27 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	69
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:27 PM
Z:\Transportation\TxDOT\PSGE\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

100%
SUBMITTAL

"EXIT 112", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, Whlte on Green;
E1-5P_96x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
State Highway 295 M1-6F3; "½ MILE", ClearviewHwy-5-W-R;

SIGN 103

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

SHEET 28 OF 63

			HIGHWAY NO.
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	AMARILLO	POTTER	70
CONTROL	SECTION	JOB	
0904	00	223	

AMA03_SGDTL_01.dgn

9/20/2023 7:04:27 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

100%
SUBMITTAL

"EXIT 114", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;

E1-2_VARx120;
12.000" Radius, 2.000" Border, White on Green;
"BUSINESS", ClearviewHwy-5-W-R; Business Loop 40 M1-2; "W EST", ClearviewHwy-5-W-R; "1 MILE", ClearviewHwy-5-W-R;

SIGN 104

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

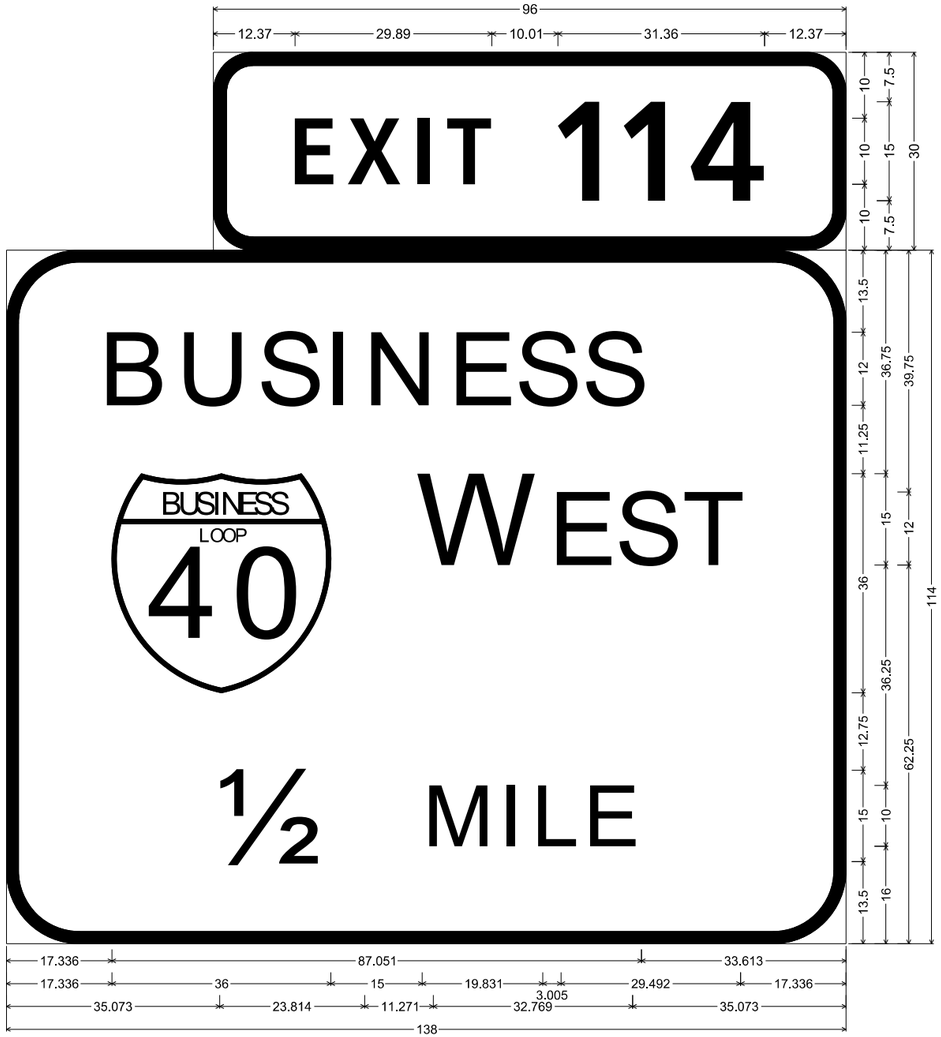
SHEET 29 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	71
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:28 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9\DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

100%
SUBMITTAL

"EXIT 114", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;



E1-2_VARx120;
12.000" Radius, 2.000" Border, White on Green;
"BUSINESS", ClearviewHwy-5-W-R; Business Loop 40 M1-2; "W EST", ClearviewHwy-5-W-R; "½ MILE", ClearviewHwy-5-W-R;

SIGN 105

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

SHEET 30 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	72
CONTROL	SECTION	JOB	
0904	00	223	

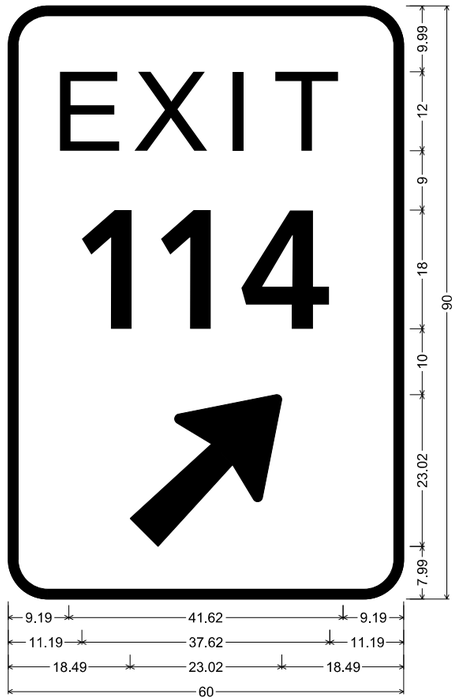
9/20/2023 7:04:28 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9\DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

100%
SUBMITTAL

"EXIT 114", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;

E1-2_VARx120;
12.000" Radius, 2.000" Border, White on Green;
"BUSINESS", ClearviewHwy-5-W-R; Business Loop 40 M1-2; "W EST", ClearviewHwy-5-W-R; Arrow A-3 - 35.625° 45°;

SIGN 108



E5-1c_60x90;
6.00" Radius, 1.50" Border, White on Green;
"EXIT", ClearviewHwy-6-W;
"114", ClearviewHwy-4-W specified length;
Arrow A-2 - 29.25" 45°;

SIGN 109 113

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

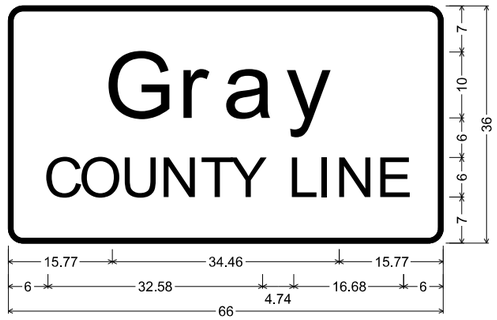
LARGE SIGN DETAILS

SHEET 31 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	73
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:28 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36_9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

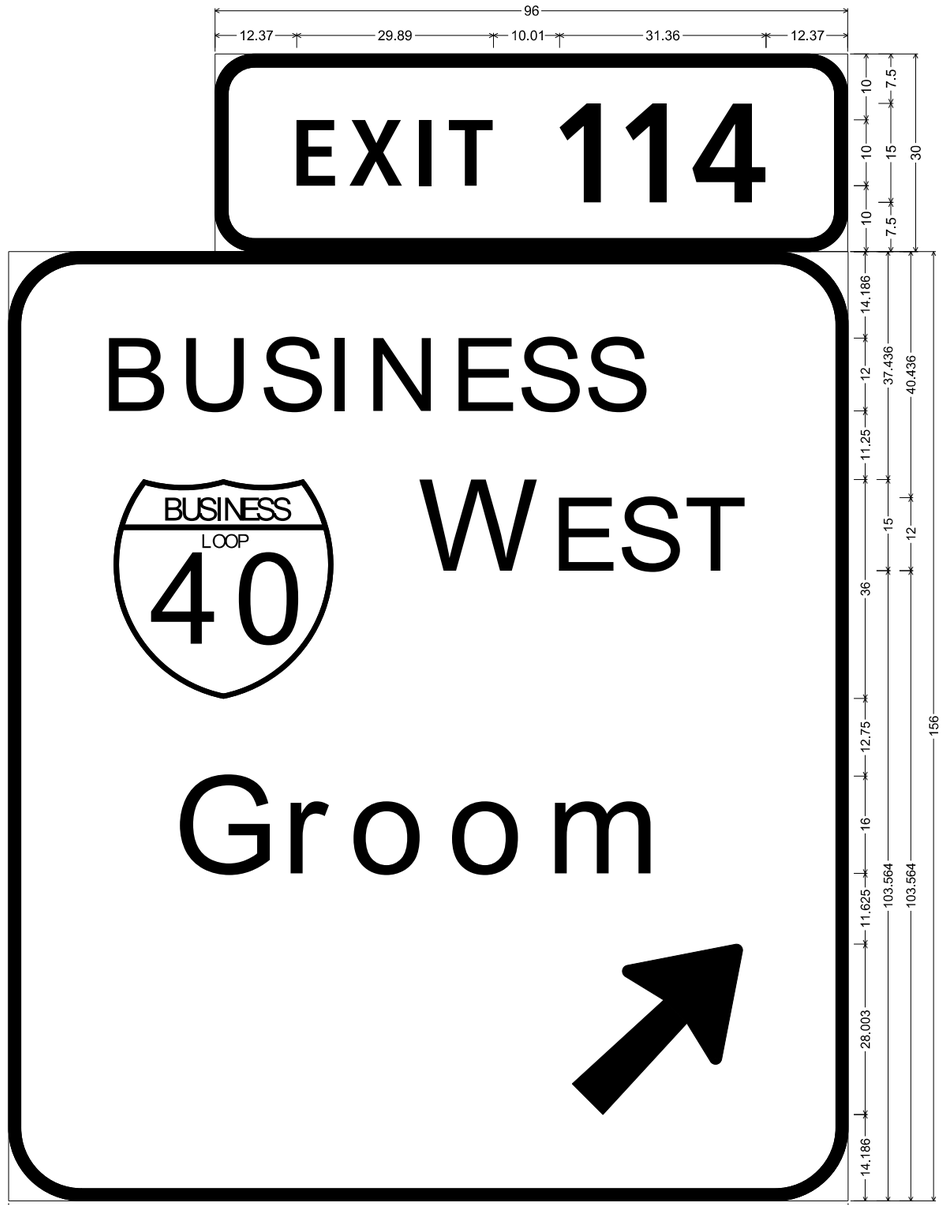
100%
SUBMITTAL



I-2dT 10in;
2.25" Radius, 0.75" Border, White on Green;
"Gray", ClearviewHwy-5-W-R;
"COUNTY LINE", ClearviewHwy-3-W;

SIGN 110 122 127 142 147 217

"EXIT 114", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;



E1-2_VARx120;
12.000" Radius, 2.000" Border, White on Green;
"BUSINESS", ClearviewHwy-5-W-R; Business Loop 40 M1-2; "W EST", ClearviewHwy-5-W-R; "Groom", ClearviewHwy-5-W-R;
Arrow A-3 - 35.625" 45°;

SIGN 114

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

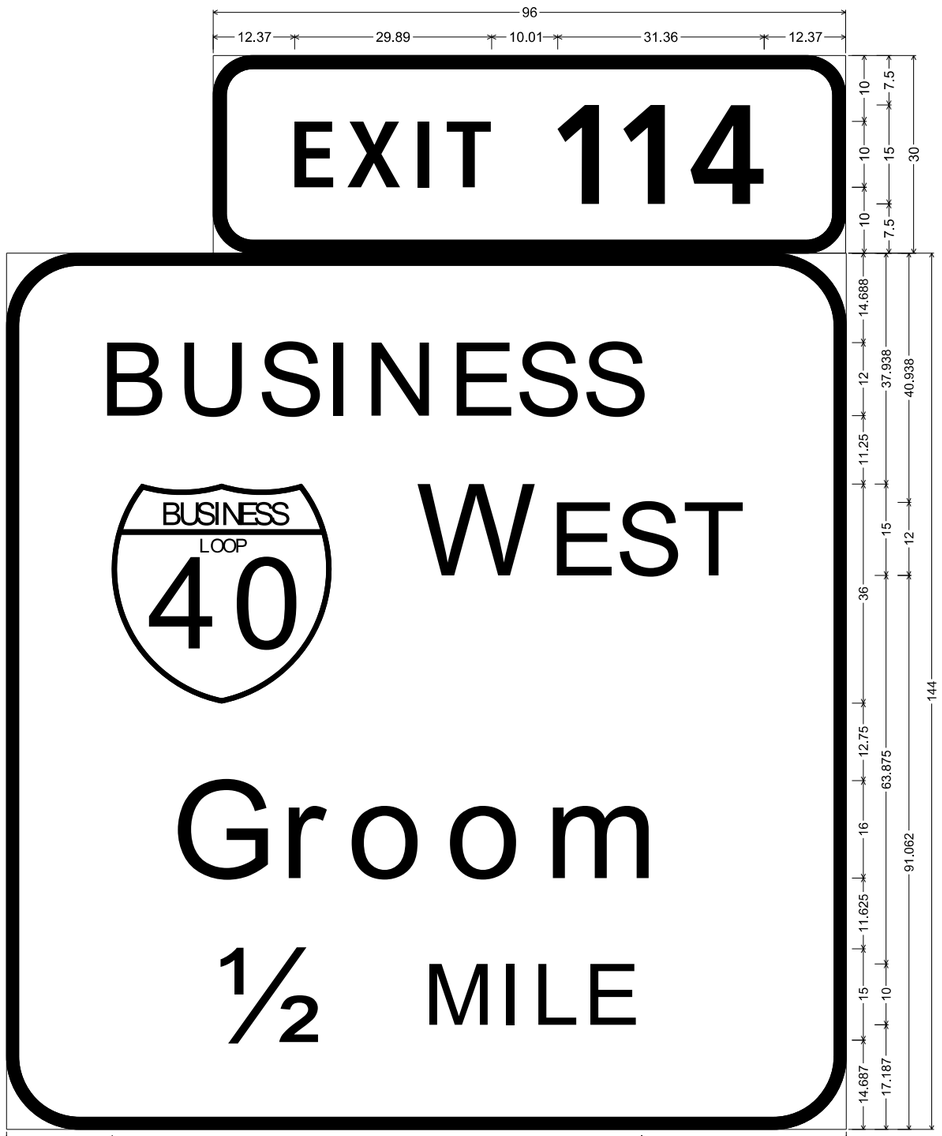
SHEET 32 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	74
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:29 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

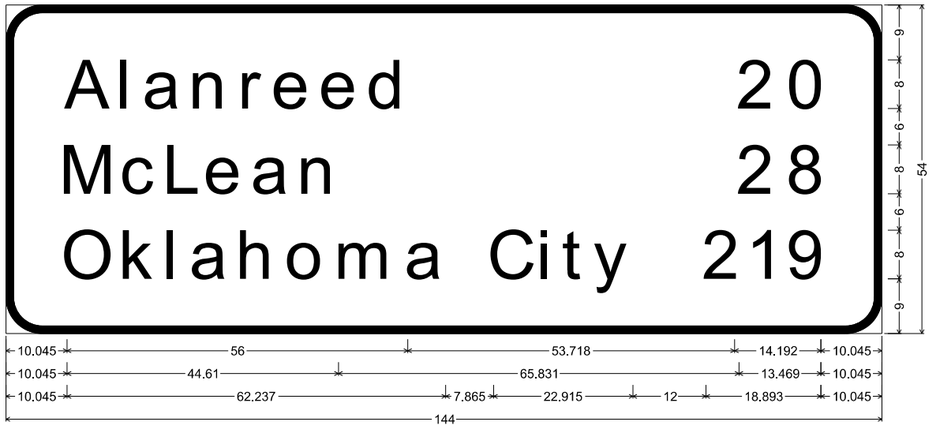
100%
SUBMITTAL

"EXIT 114", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;



E1-2_VARx120;
12.000" Radius, 2.000" Border, White on Green;
"BUSINESS", ClearviewHwy-5-W-R; Business Loop 40 M1-2; "W EST", ClearviewHwy-5-W-R; "Groom", ClearviewHwy-5-W-R;
"½ MILE", ClearviewHwy-5-W-R;

SIGN 115



E7-3T_VARx54;
6.000" Radius, 1.250" Border, White on Green;
"Alanreed", ClearviewHwy-5-W-R; "20", ClearviewHwy-5-W-R; "McLean", ClearviewHwy-5-W-R; "28", ClearviewHwy-5-W-R;
"Oklahoma City", ClearviewHwy-5-W-R; "219", ClearviewHwy-5-W-R;

SIGN 116

STATE OF TEXAS
JUAN E. TREVIÑO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

SHEET 33 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	75
CONTROL	SECTION	JOB	
0904	00	223	

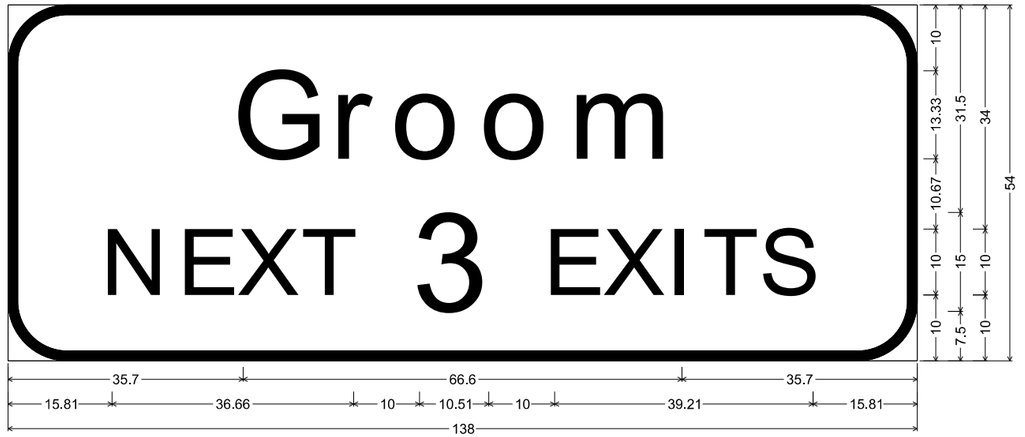
9/20/2023 7:04:29 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9\DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

100%
SUBMITTAL

"EXIT 114", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;

E1-2_VARx120;
12.000" Radius, 2.000" Border, White on Green;
"BUSINESS", ClearviewHwy-5-W-R; Business Loop 40 M1-2; "W EST", ClearviewHwy-5-W-R; "Groom", ClearviewHwy-5-W-R;
"1 MILE", ClearviewHwy-5-W-R;

SIGN 117



9.00" Radius, 1.50" Border, White on Green;
"Groom", ClearviewHwy-5-W-R; "NEXT", ClearviewHwy-5-W-R; "3", ClearviewHwy-5-W-R; "EXITS", ClearviewHwy-5-W-R;

SIGN 118

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

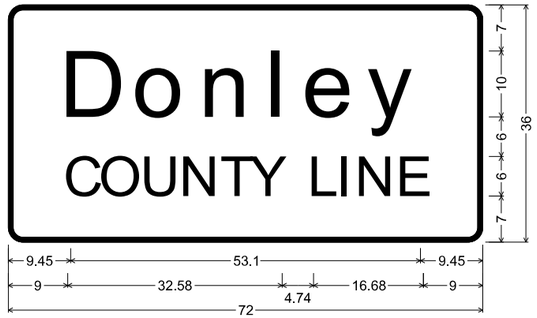
LARGE SIGN DETAILS

SHEET 34 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	76
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:30 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

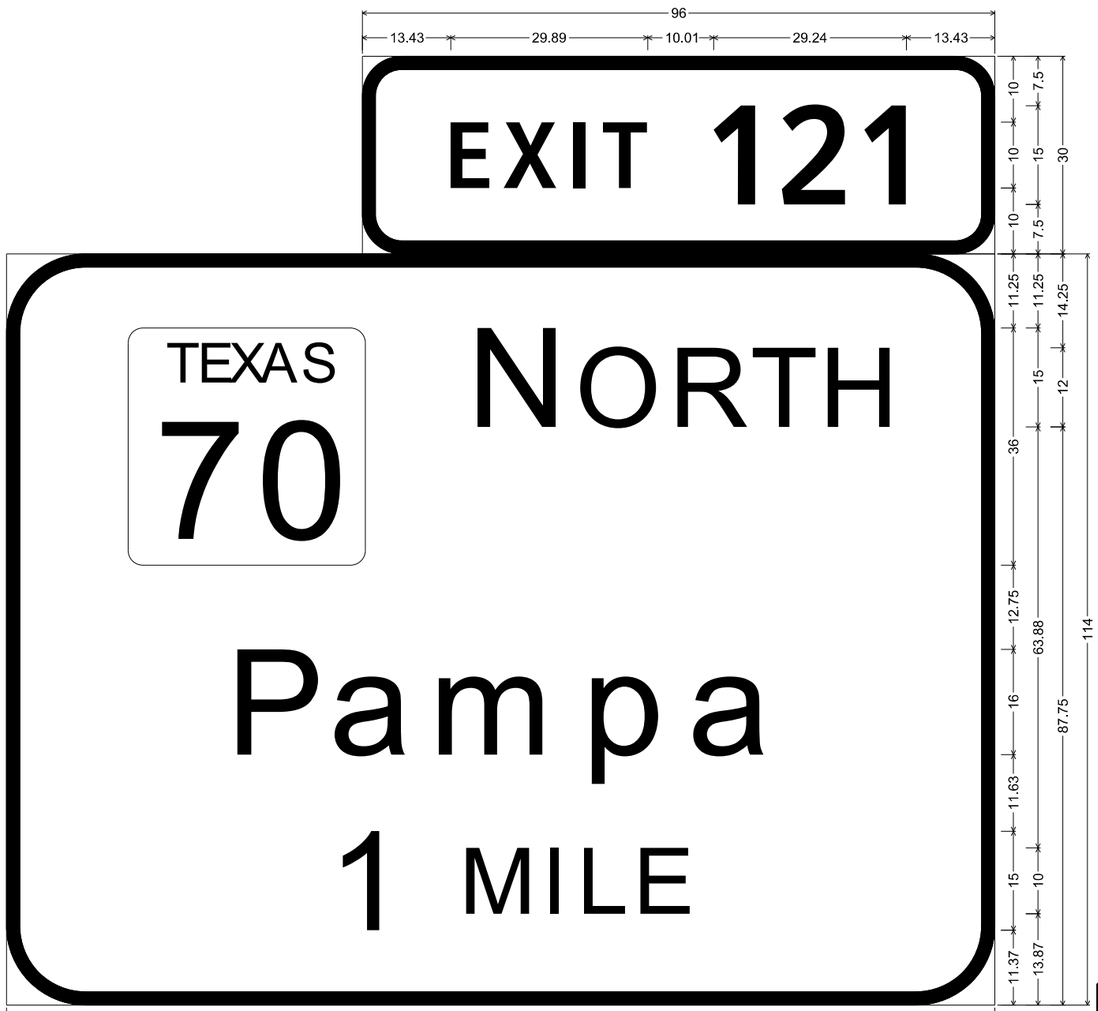
100% SUBMITTAL



I-2dT 10in;
2.25" Radius, 0.75" Border, White on Green;
"Donley", ClearviewHwy-5-W-R; "COUNTY LINE", ClearviewHwy-3-W;

SIGN 121 128 139 148

"EXIT 121", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
State Highway 70 M1-6T2; "N ORTH", ClearviewHwy-5-W-R; "Pampa", ClearviewHwy-5-W-R; "1 MILE", ClearviewHwy-5-W-R;

SIGN 123 134

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

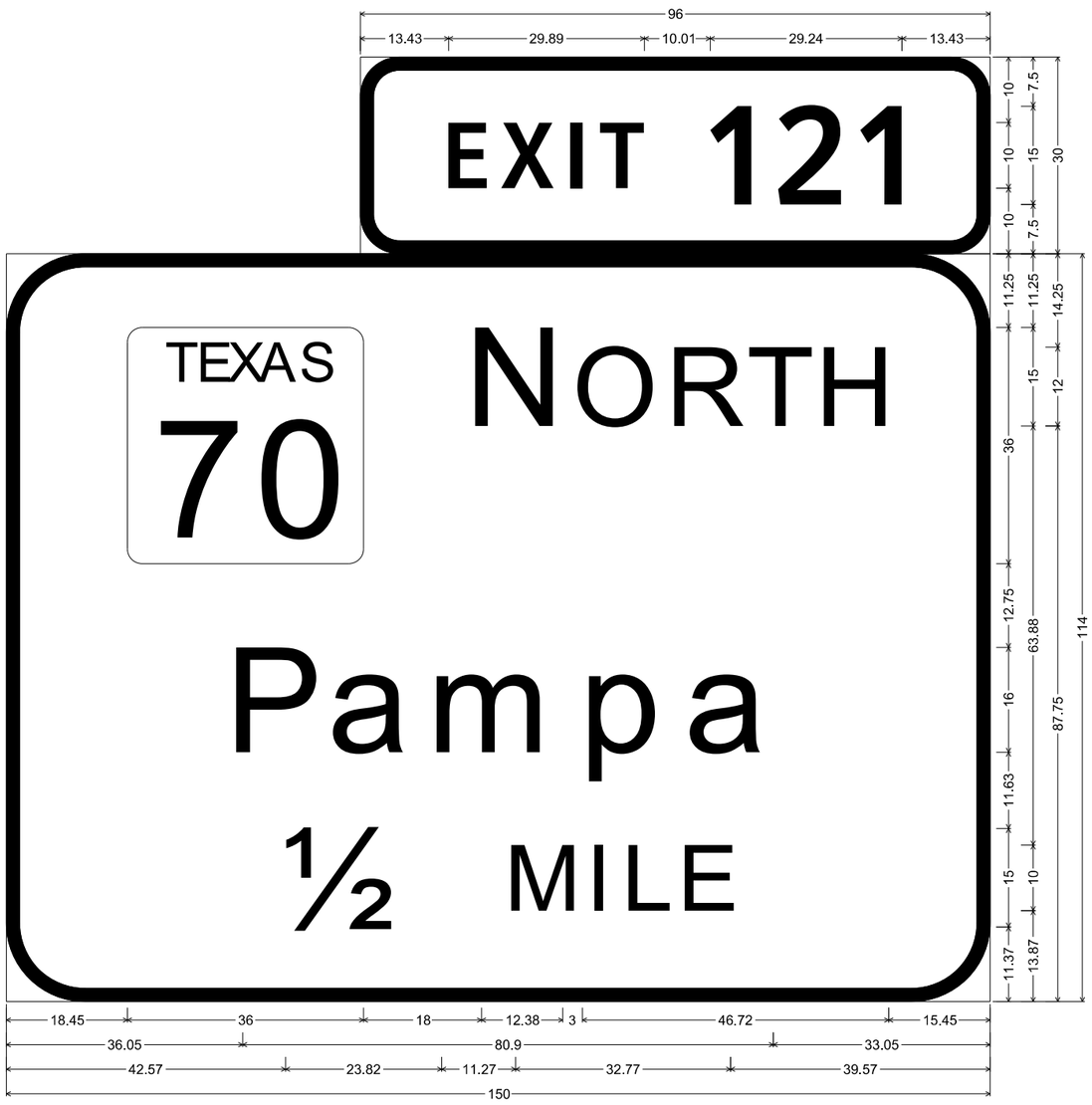
SHEET 35 OF 63

			HIGHWAY NO.
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	AMARILLO	POTTER	77
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:30 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

100%
SUBMITTAL

"EXIT 121", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
State Highway 70 M1-6T2; "N ORTH", ClearviewHwy-5-W-R; "Pampa", ClearviewHwy-5-W-R; "½ MILE", ClearviewHwy-5-W-R;

SIGN 124 133

STATE OF TEXAS
JUAN E. TREVIÑO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

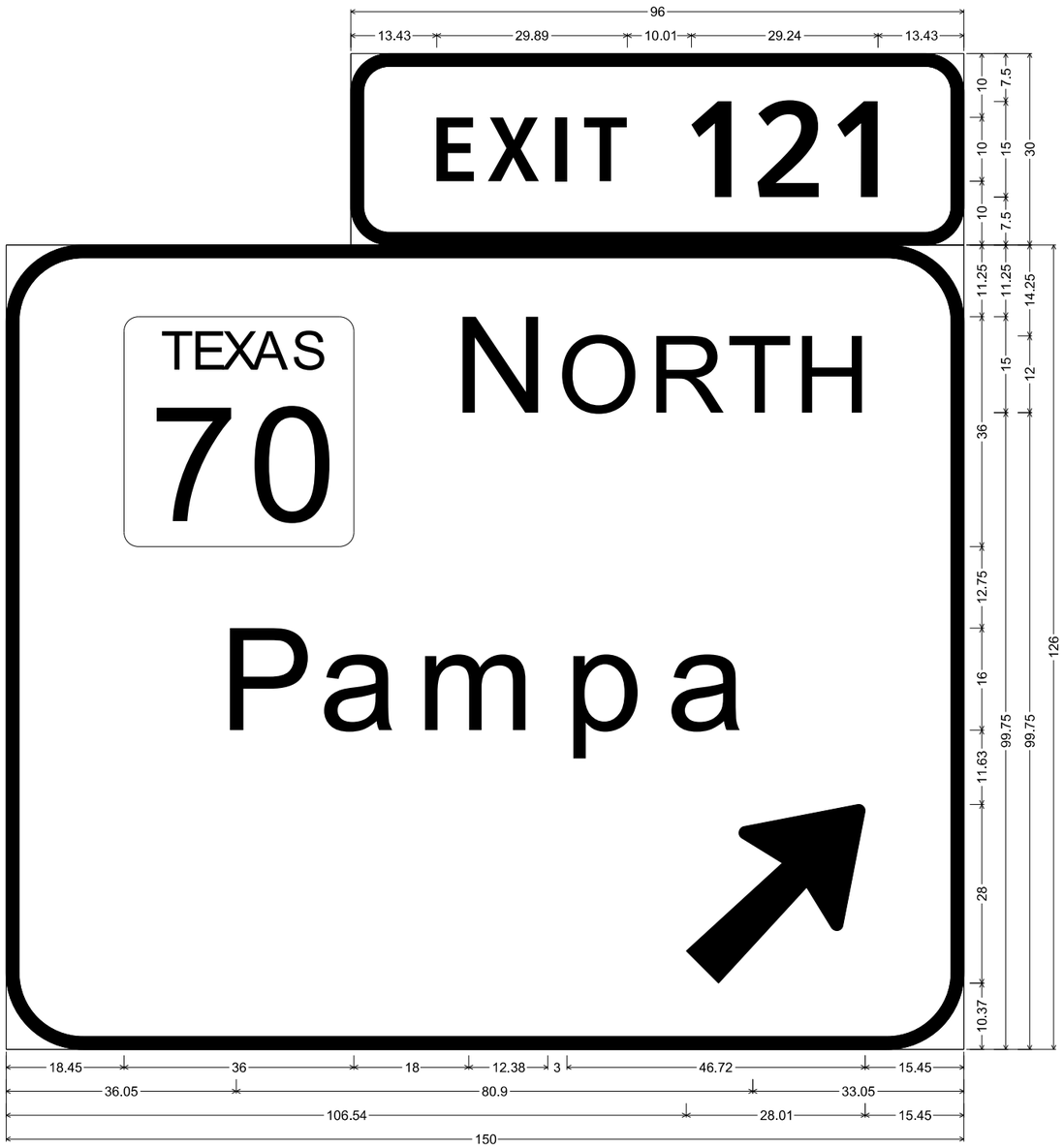
SHEET 36 OF 63

			HIGHWAY NO.
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	AMARILLO	POTTER	78
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:31 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

100%
SUBMITTAL

"EXIT 121", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
State Highway 70 M1-6T2; "N ORTH", ClearviewHwy-5-W-R; "Pampa", ClearviewHwy-5-W-R; Arrow A-3 - 35.63" 45°;

SIGN 125 132

E5-1c_60x90;
6.00" Radius, 1.50" Border, White on Green;
"EXIT", ClearviewHwy-6-W;
"121", ClearviewHwy-4-W specified length;
Arrow A-2 - 29.25" 45°;

SIGN 126 131

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

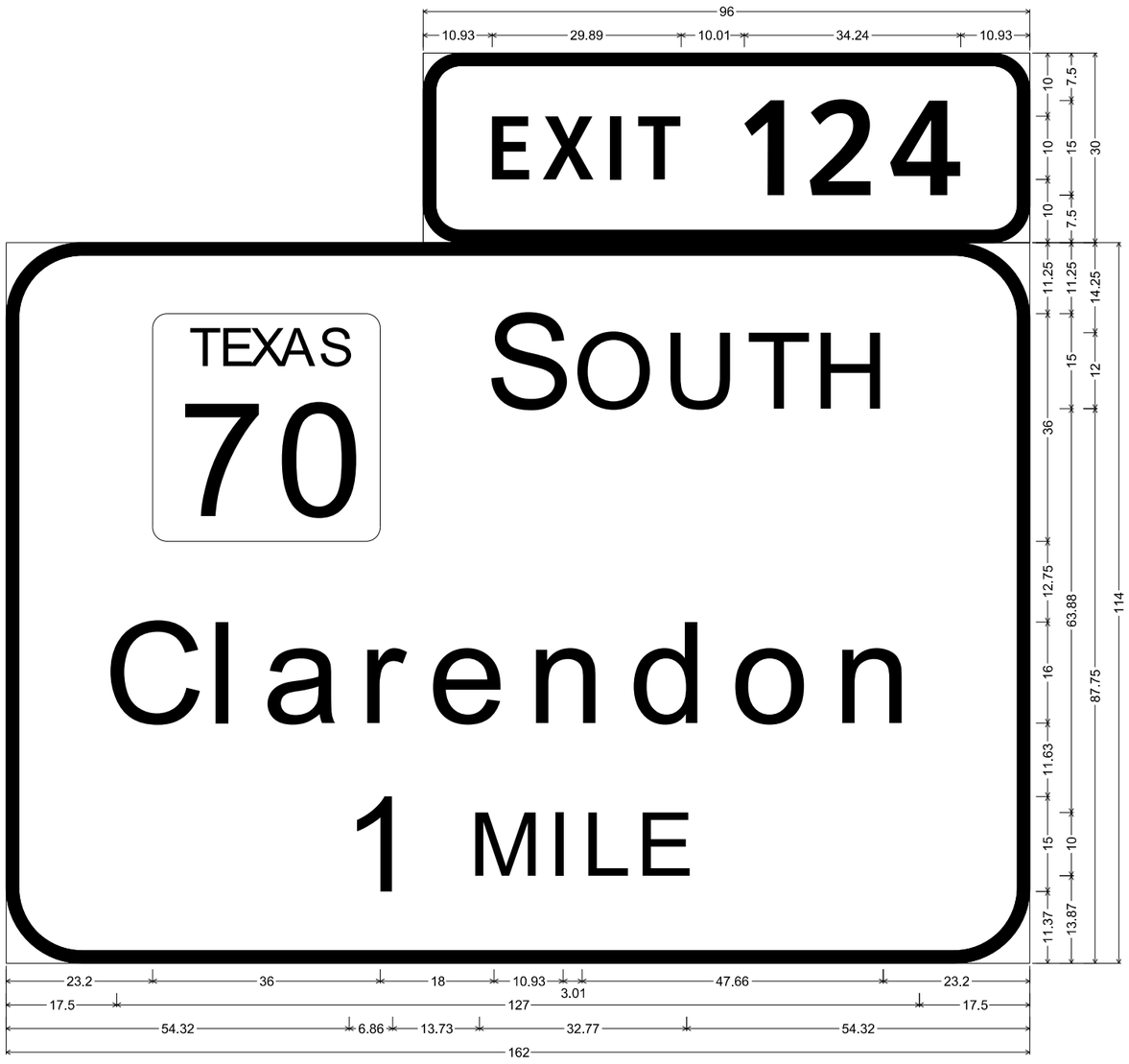
SHEET 37 OF 63

			HIGHWAY NO.
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	AMARILLO	POTTER	79
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:31 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

100%
SUBMITTAL

"EXIT 124", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
State Highway 70 M1-6T2; "S OUTH", ClearviewHwy-5-W-R; "Clarendon", ClearviewHwy-5-W-R; "1 MILE", ClearviewHwy-5-W-R;

SIGN (135) (146)

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

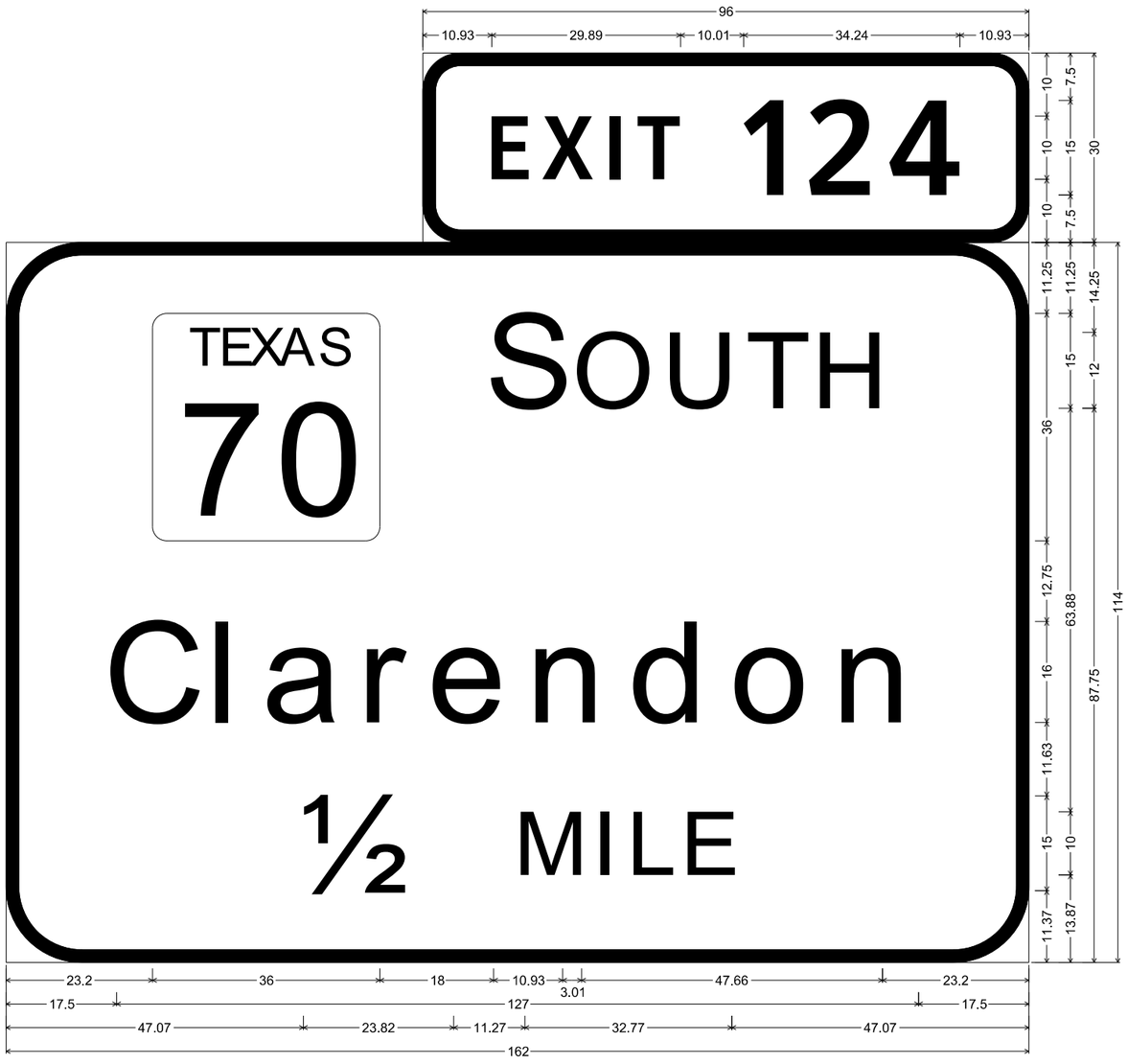
SHEET 38 OF 63

			HIGHWAY NO.
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	AMARILLO	POTTER	80
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:32 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

100%
SUBMITTAL

"EXIT 124", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
State Highway 70 M1-6T2; "S OUTH", ClearviewHwy-5-W-R; "Clarendon", ClearviewHwy-5-W-R; "½ MILE", ClearviewHwy-5-W-R;

SIGN 136 145

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

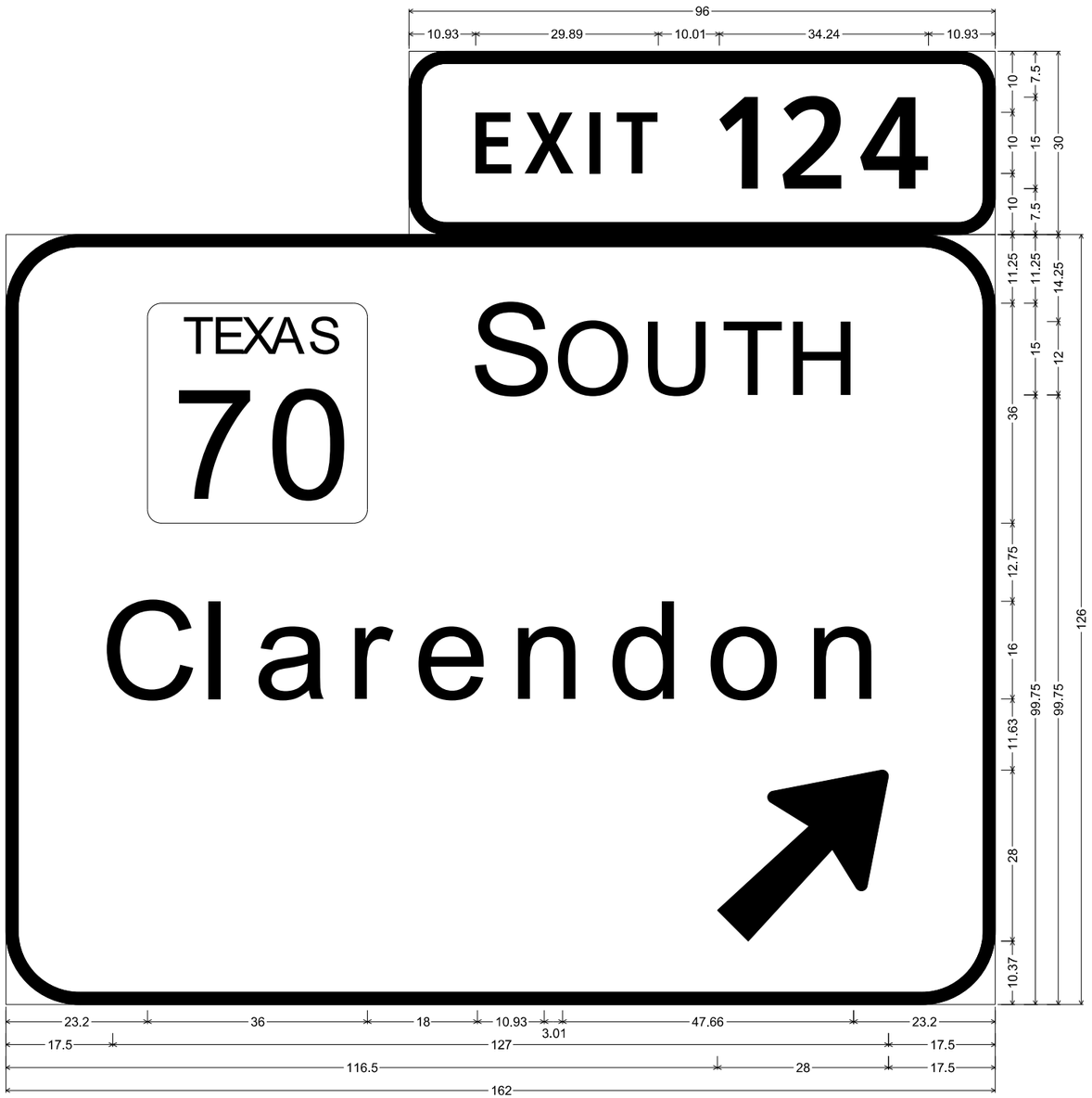
SHEET 39 OF 63

			HIGHWAY NO.
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	AMARILLO	POTTER	81
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:32 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

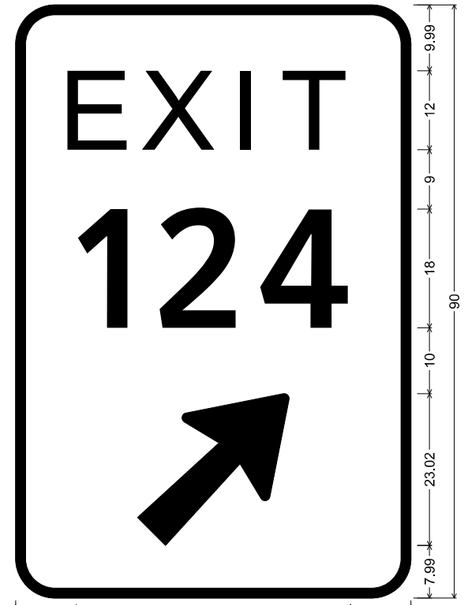
100%
SUBMITTAL

"EXIT 124", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
State Highway 70 M1-6T2; "S OUTH", ClearviewHwy-5-W-R; "Clarendon", ClearviewHwy-5-W-R; Arrow A-3 - 35.63" 45°;

SIGN 137 144



E5-1c_60x90;
6.00" Radius, 1.50" Border, White on Green;
"EXIT", ClearviewHwy-6-W;

SIGN 138 143

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

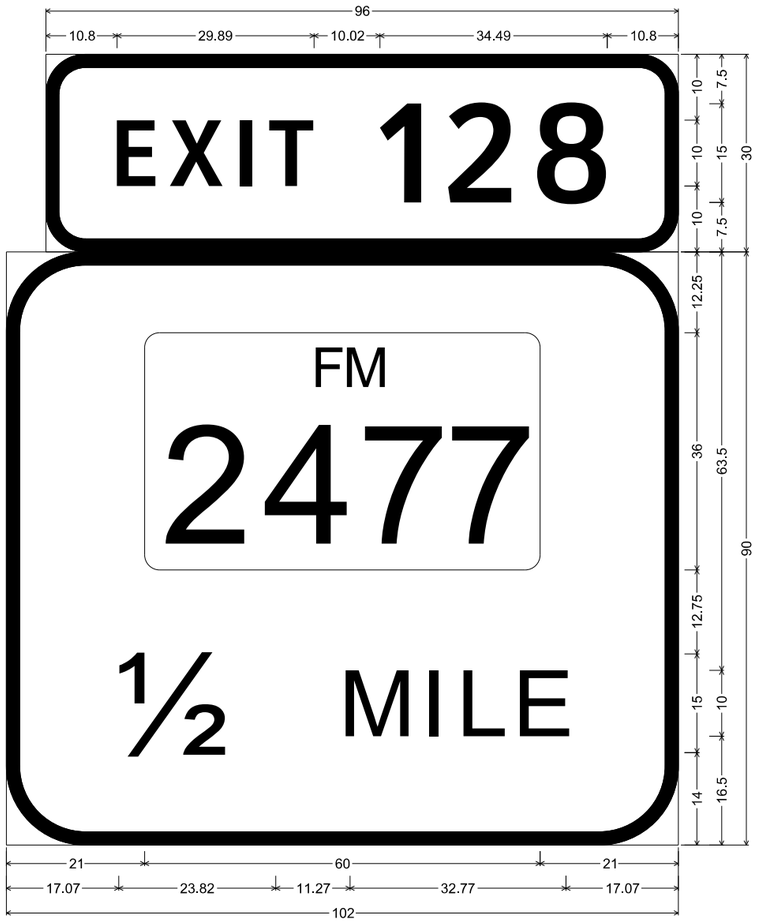
SHEET 40 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	82
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:33 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9\DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_01.dgn

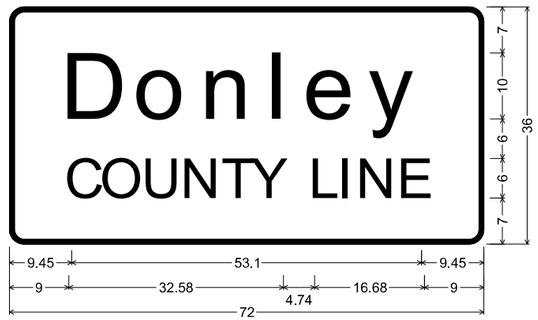
100%
SUBMITTAL

"EXIT 128", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, WhIte on Green;
E1-5P_96x30;



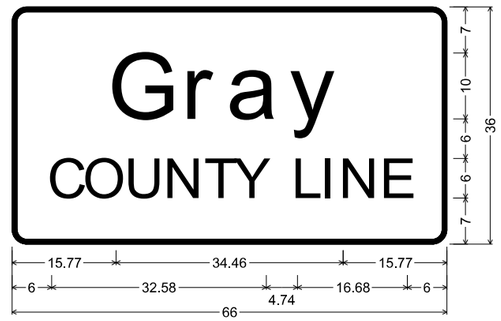
E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
State Highway 2477 M1-6F4; "½ MILE", ClearviewHwy-5-W-R;

SIGN 149 160



I-2dT 10in;
2.25" Radius, 0.75" Border, White on Green;
"Donley", ClearviewHwy-5-W-R; "COUNTY LINE", ClearviewHwy-3-W;

SIGN 150



I-2dT 10in;
2.25" Radius, 0.75" Border, White on Green;
"Gray", ClearviewHwy-5-W-R;
"COUNTY LINE", ClearviewHwy-3-W;

SIGN 151

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

SHEET 41 OF 63

			HIGHWAY NO.
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	AMARILLO	POTTER	83
CONTROL	SECTION	JOB	
0904	00	223	

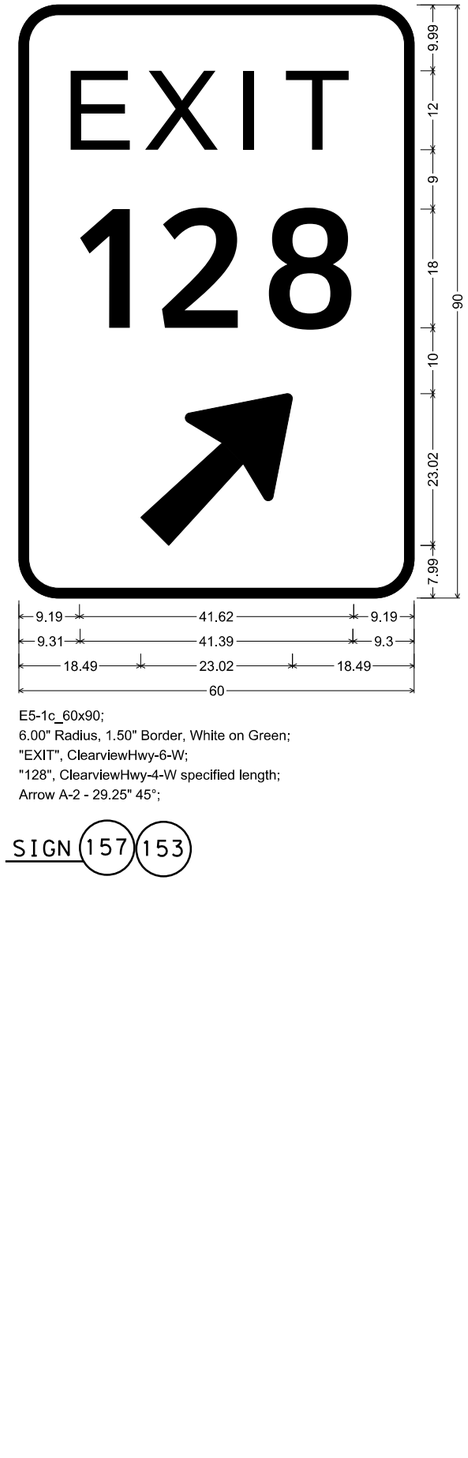
9/20/2023 7:04:35 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_02.dgn

100%
SUBMITTAL

"EXIT 128", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, Whlte on Green;
E1-5P_96x30;

E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
State Highway 2477 M1-6F4; Arrow A-3 - 35.63" 45°;

SIGN 152 158



E5-1c_60x90;
6.00" Radius, 1.50" Border, White on Green;
"EXIT", ClearviewHwy-6-W;
"128", ClearviewHwy-4-W specified length;
Arrow A-2 - 29.25" 45°;

SIGN 157 153

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

SHEET 42 OF 63

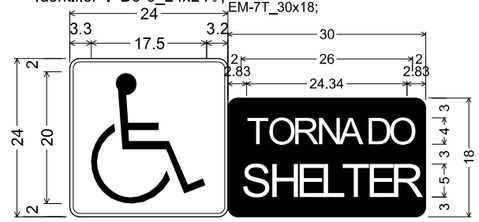
			HIGHWAY NO.
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	AMARILLO	POTTER	84
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:36 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_02.dgn

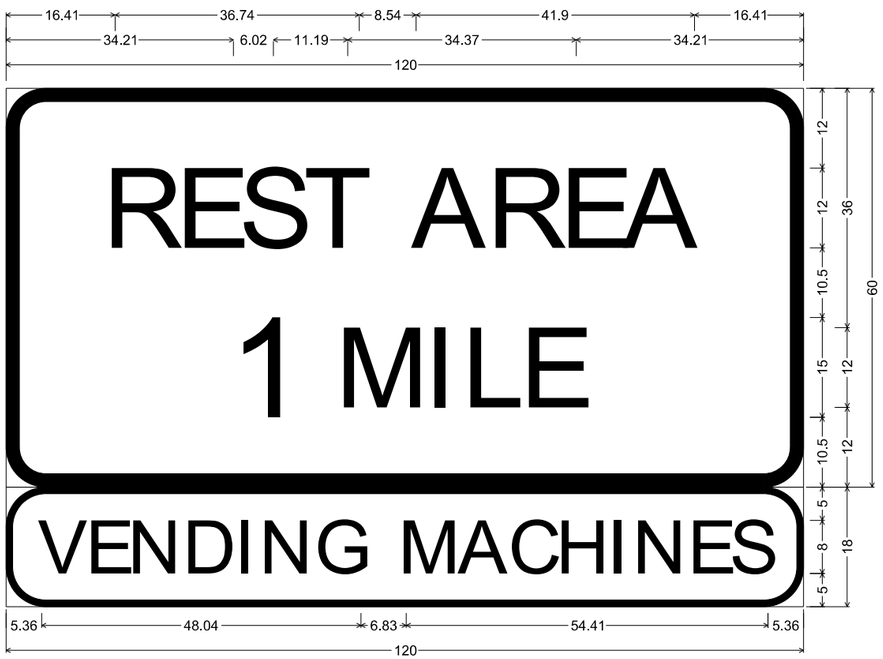
100%
SUBMITTAL

Symbol RM080;
1.5" Radius, 0.5" Border, White on Blue;
Identifier : D9-6_24x24◇;

"SHELTER", D specified length;
"TORNADO", D specified length;
1.50" Radius, 0.75" Border, 0.50" Indent, Black on White;
EM-7T_30x18;



E21-1T_120x60;
2.00" Border, White on Blue;
"REST AREA", ClearviewHwy-3-W; "1 MILE", ClearviewHwy-3-W;



E21-8T_120x18;
1.00" Border, White on Blue;
"VENDING MACHINES", ClearviewHwy-3-W;

SIGN 154 170

E21-3T_78x78;
6.00" Radius, 2.00" Border, White on Blue;
"REST", ClearviewHwy-6-W; "AREA", ClearviewHwy-6-W;
Arrow A-2 - 29.25" 45°;

SIGN 159 164

STATE OF TEXAS
JUAN E. TREVIÑO-GUERRA
141908
NOT LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

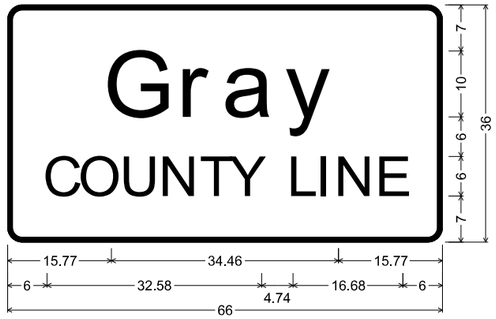
LARGE SIGN DETAILS

SHEET 43 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	85
CONTROL	SECTION	JOB	
0904	00	223	

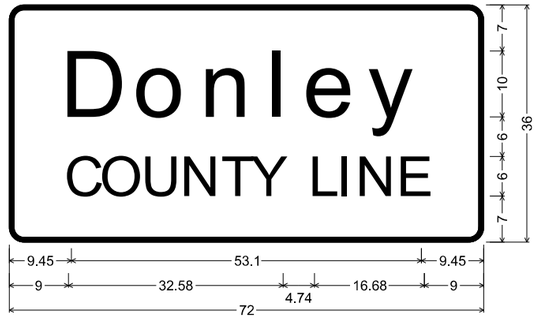
9/20/2023 7:04:36 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_02.dgn

100%
SUBMITTAL



I-2dT 10in;
2.25" Radius, 0.75" Border, White on Green;
"Gray", ClearviewHwy-5-W-R;
"COUNTY LINE", ClearviewHwy-3-W;

SIGN 161



I-2dT 10in;
2.25" Radius, 0.75" Border, White on Green;
"Donley", ClearviewHwy-5-W-R; "COUNTY LINE", ClearviewHwy-3-W;

SIGN 162

JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/21/2023

SCALE: N. T. S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

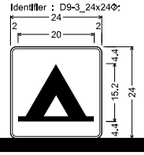
SHEET 44 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	86
CONTROL	SECTION	JOB	
0904	00	223	

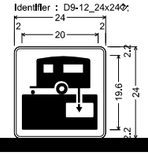
9/20/2023 7:04:36 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_02.dgn

100%
SUBMITTAL

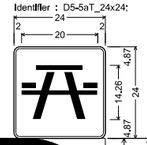
Symbol RM010:
1.5" Radius, 0.5" Border, White on Blue;
Identifier : D9-3_24x24◇;

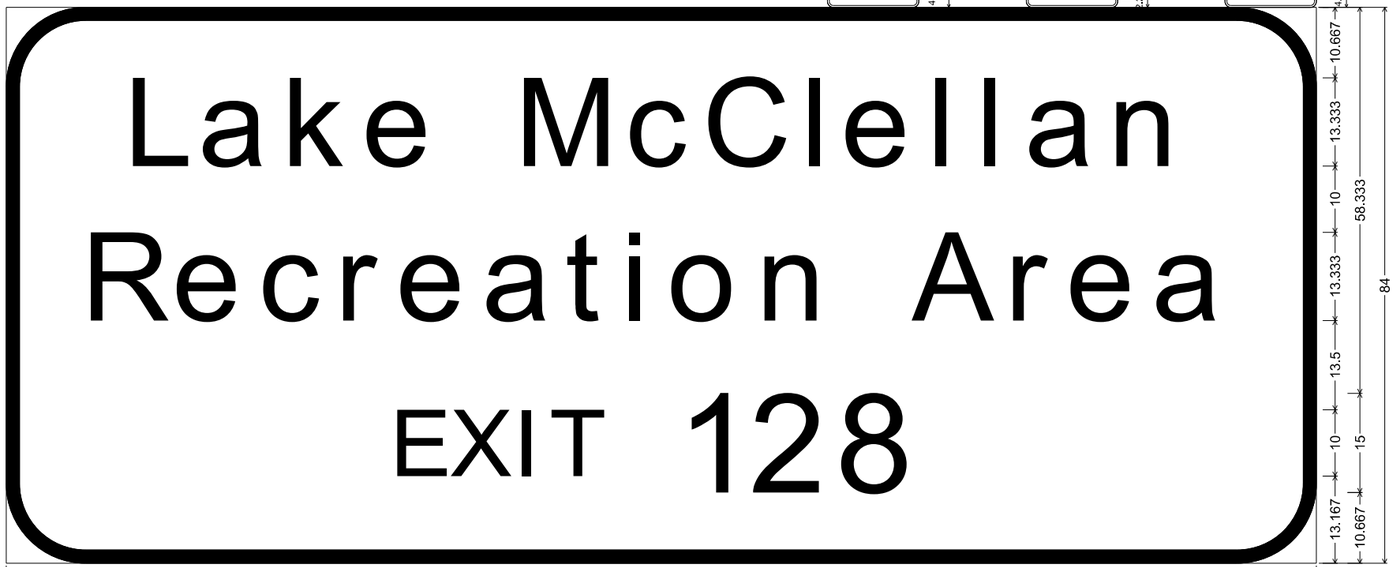


Symbol RM160:
1.5" Radius, 0.5" Border, White on Blue;
Identifier : D9-12_24x24◇;



Symbol RM120:
1.5" Radius, 0.5" Border, White on Blue;
Identifier : D5-5aT_24x24;





D7-1T(F);
12.000" Radius, 2.000" Border, White on Brown;
"Lake McClellan", ClearviewHwy-5-W-R; "Recreation Area", ClearviewHwy-5-W-R; "EXIT 128", ClearviewHwy-5-W-R;

SIGN 163

STATE OF TEXAS
JUAN E. TREVIÑO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N. T. S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

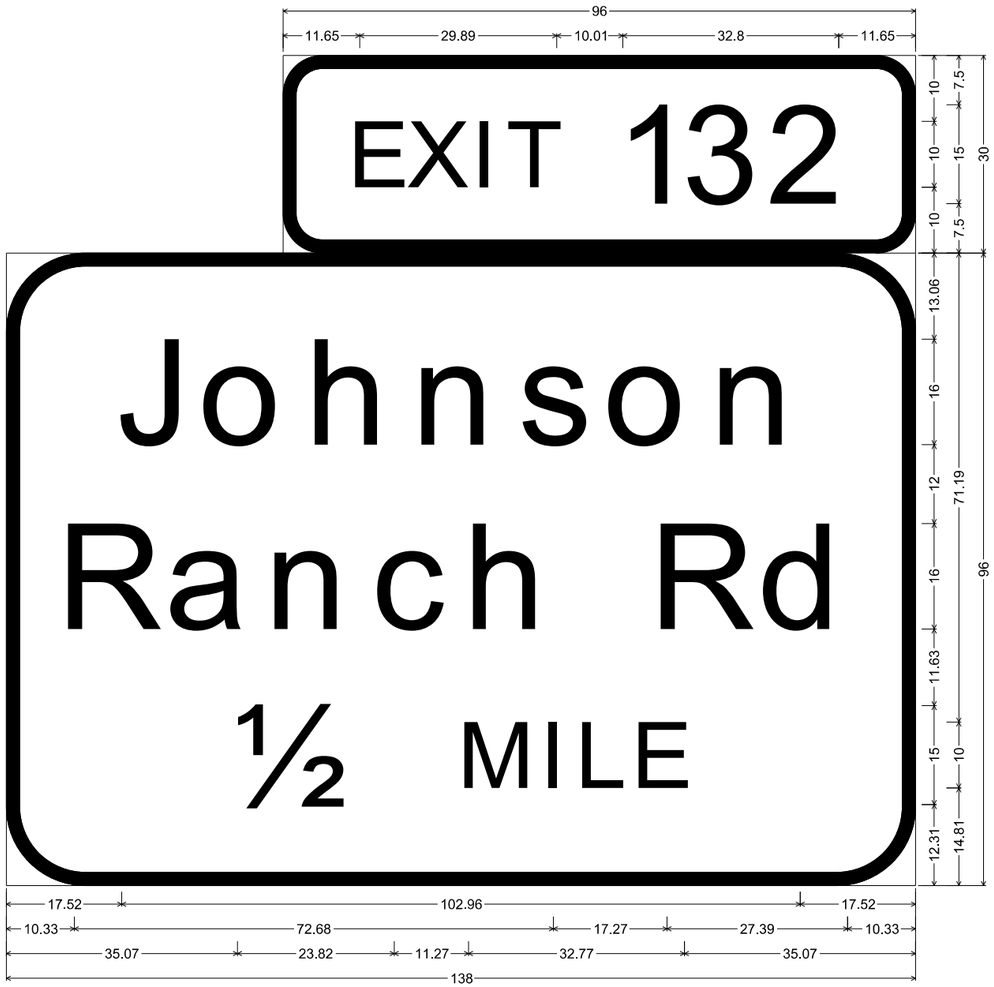
SHEET 45 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	
CONTROL	SECTION	JOB	87
0904	00	223	

9/20/2023 7:04:37 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9\DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_02.dgn

100%
SUBMITTAL

"EXIT 132", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;



E1-1a_VARx150;
12.00" Radius, 2.00" Border, White on Green;
"Johnson", ClearviewHwy-5-W-R; "Ranch Rd", ClearviewHwy-5-W-R; "½ MILE", ClearviewHwy-5-W-R;

SIGN 165 171

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

SHEET 46 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	88
CONTROL	SECTION	JOB	
0904	00	223	

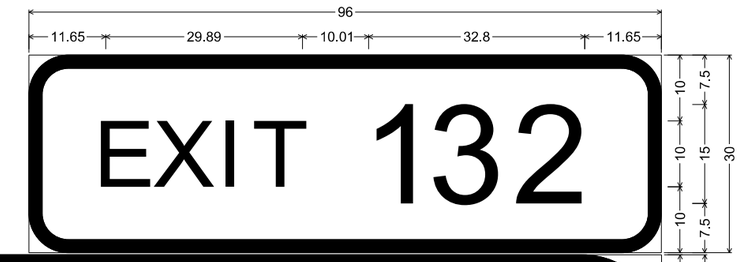
9/20/2023 7:04:37 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_02.dgn

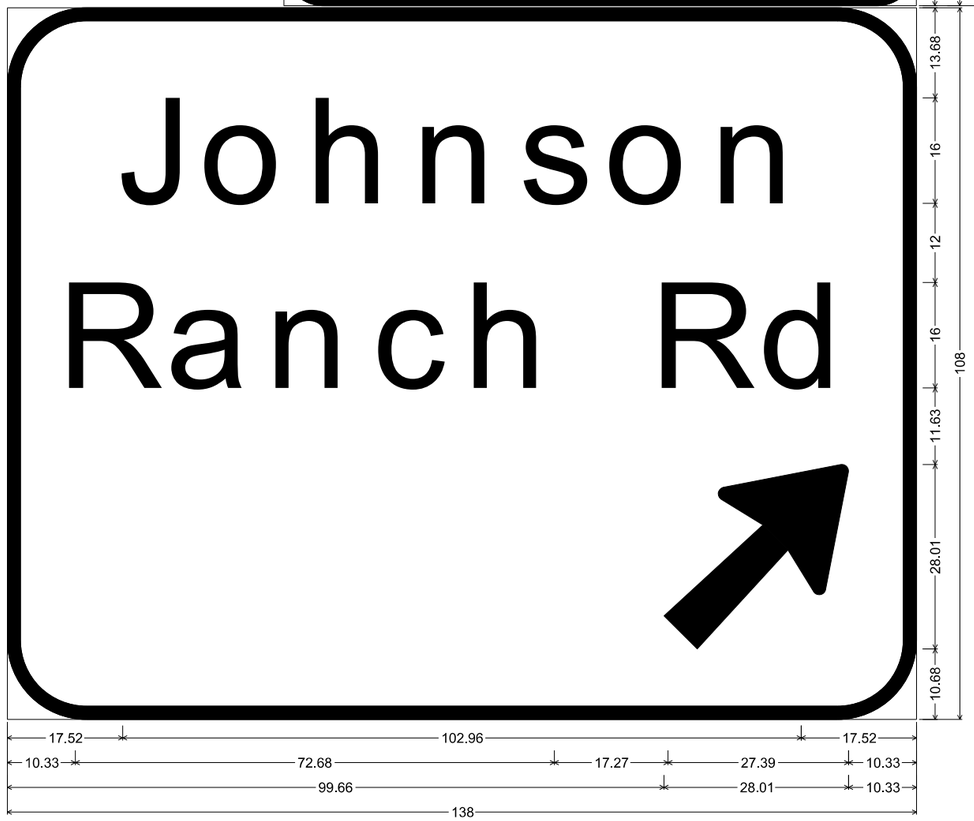
100%
SUBMITTAL

E5-1c_60x90;
6.00" Radius, 1.50" Border, White on Green;
"EXIT", ClearviewHwy-6-W;
"132", ClearviewHwy-4-W specified length;
Arrow A-2 - 29.25" 45°;

SIGN 167 168

"EXIT 132", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, Whlte on Green;
E1-5P_96x30;





E1-1a_VARx150;
12.00" Radius, 2.00" Border, White on Green;
"Johnson", ClearviewHwy-5-W-R; "Ranch Rd", ClearviewHwy-5-W-R; Arrow A-3 - 35.63" 45°;

SIGN 166 169

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

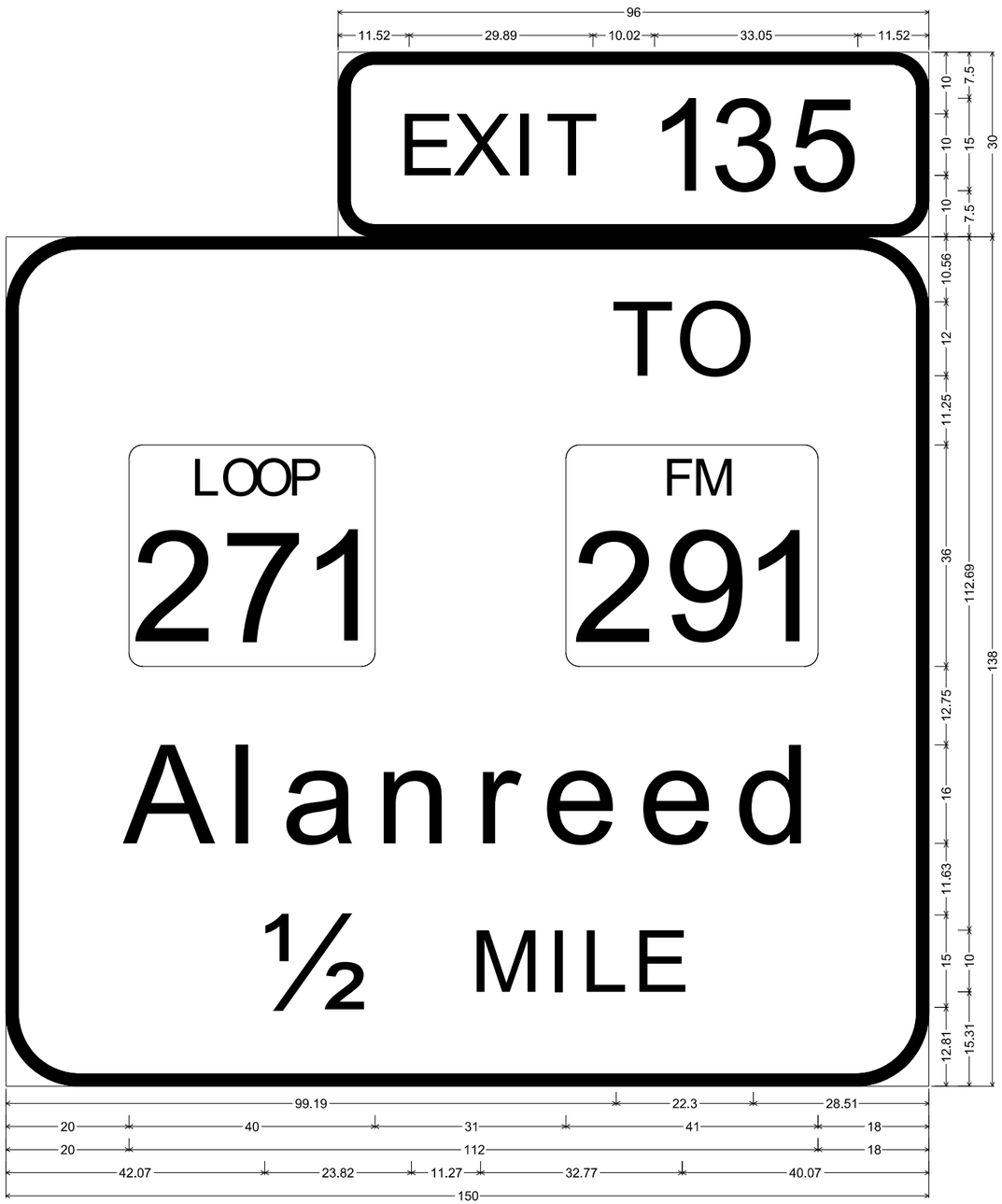
SHEET 47 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	89
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:37 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_02.dgn

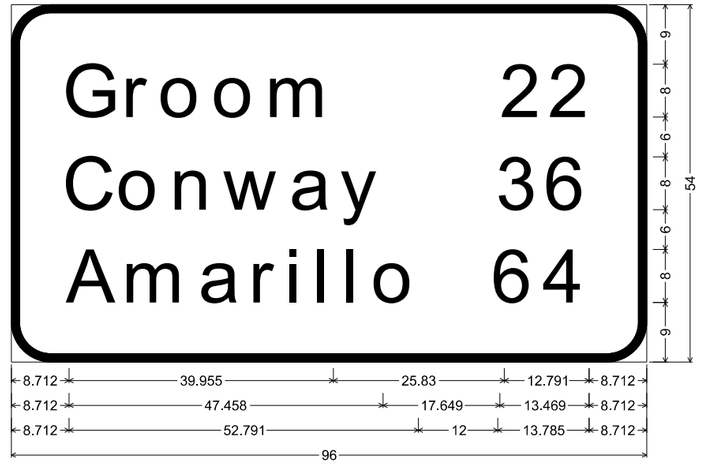
100%
SUBMITTAL

"EXIT 135", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
"TO ", ClearviewHwy-5-W-R; State Highway 271 M1-6L3; State Highway 291 M1-6F3; "Alanreed", ClearviewHwy-5-W-R;
"½ MILE", ClearviewHwy-5-W-R;

SIGN 172 183



E7-3T_VARx54;
6.000" Radius, 1.250" Border, White on Green;
"Groom", ClearviewHwy-5-W-R; "22", ClearviewHwy-5-W-R; "Conway", ClearviewHwy-5-W-R;
"36", ClearviewHwy-5-W-R; "Amarillo", ClearviewHwy-5-W-R; "64", ClearviewHwy-5-W-R;

SIGN 173

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

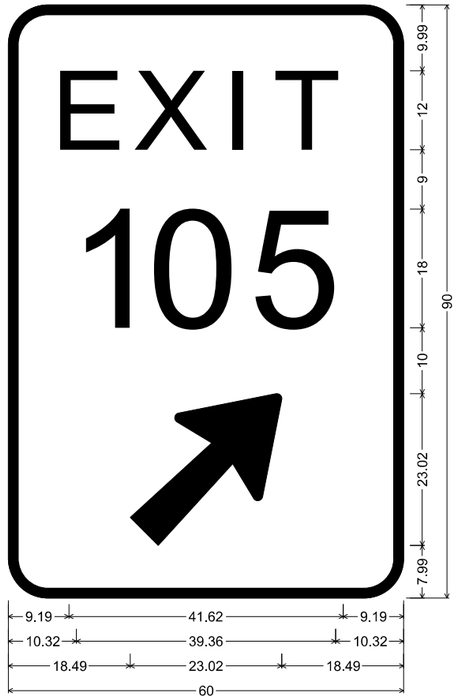
LARGE SIGN DETAILS

SHEET 48 OF 63

			HIGHWAY NO.
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	AMARILLO	POTTER	90
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:38 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9\DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_02.dgn

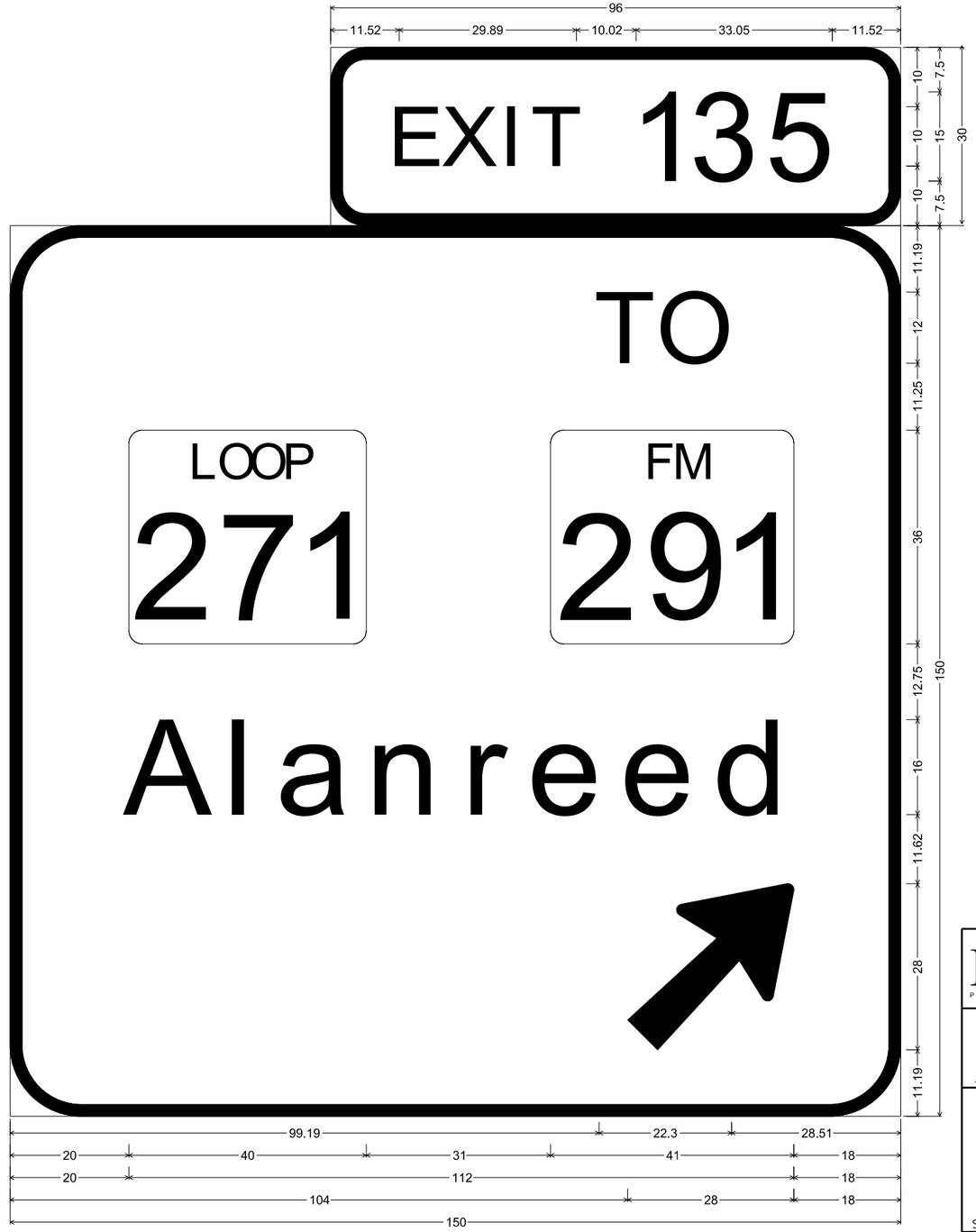
100%
SUBMITTAL



E5-1c_60x90;
6.00" Radius, 1.50" Border, White on Green;
"EXIT", ClearviewHwy-6-W;
"132", ClearviewHwy-4-W specified length;
Arrow A-2 - 29.25" 45°;

SIGN 175 180

"EXIT 135", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
"TO ", ClearviewHwy-5-W-R; State Highway 271 M1-6L3; State Highway 291 M1-6F3; "Alanreed", ClearviewHwy-5-W-R; Arrow A-3 - 35.63" 45°;

SIGN 174 181

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

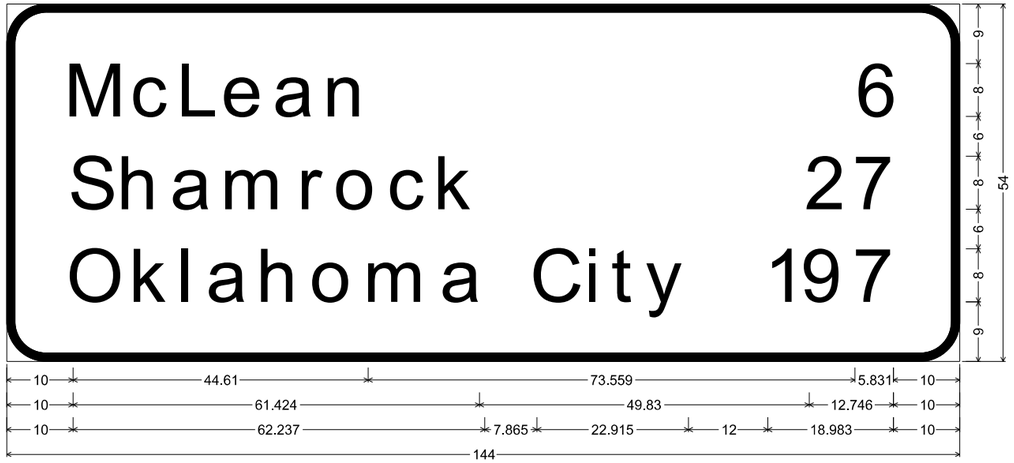
LARGE SIGN DETAILS

SHEET 49 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	91
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:38 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9\DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_02.dgn

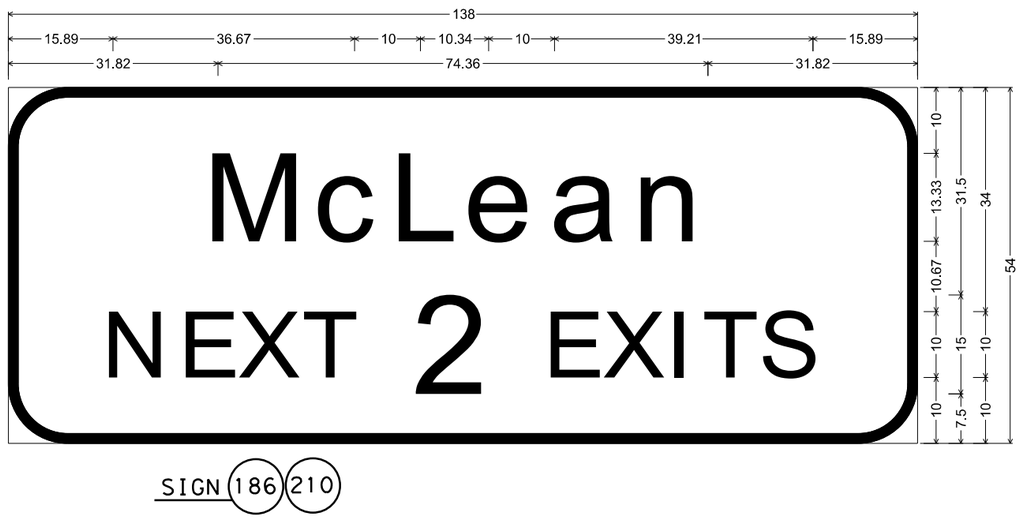
100%
SUBMITTAL



E7-3T_VARx54;
6.000" Radius, 1.250" Border, White on Green;
"McLean", ClearviewHwy-5-W-R; "6", ClearviewHwy-5-W-R; "Shamrock", ClearviewHwy-5-W-R; "27", ClearviewHwy-5-W-R;
"Oklahoma City", ClearviewHwy-5-W-R; "197", ClearviewHwy-5-W-R;

SIGN 182

"McLean", ClearviewHwy-5-W-R; "NEXT", ClearviewHwy-5-W-R; "2", ClearviewHwy-5-W-R; "EXITS", ClearviewHwy-5-W-R;
9.00" Radius, 1.50" Border, White on Green;



SIGN 186 210

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

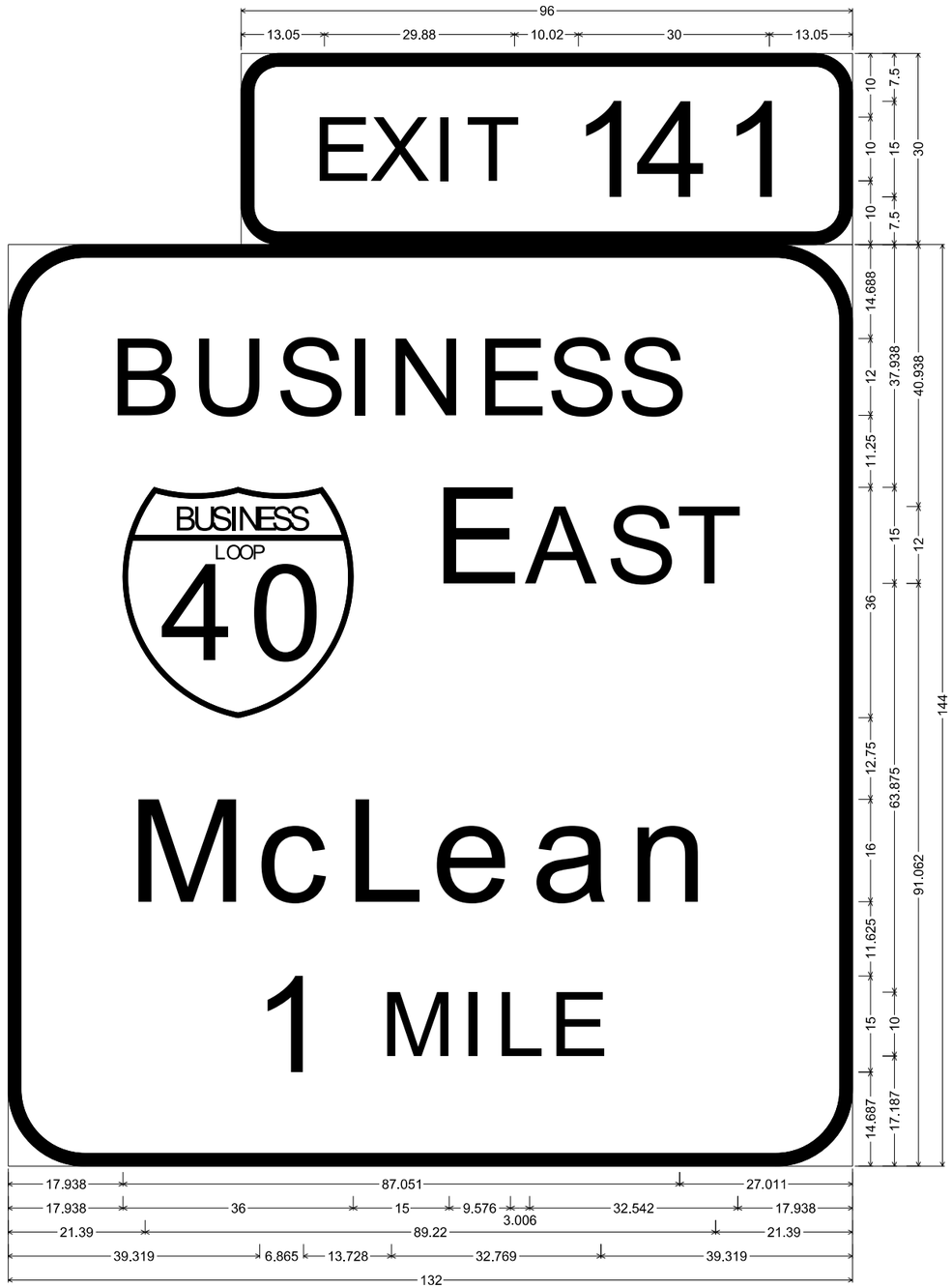
SHEET 50 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	92
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:38 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_02.dgn

100%
SUBMITTAL

"EXIT 141", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;



E1-2_VARx120;
12.000" Radius, 2.000" Border, White on Green;
"BUSINESS", ClearviewHwy-5-W-R; Business Loop 40 M1-2; "E AST", ClearviewHwy-5-W-R; "McLean", ClearviewHwy-5-W-R;
"1 MILE", ClearviewHwy-5-W-R;

SIGN 187

STATE OF TEXAS
JUAN E. TREVIÑO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

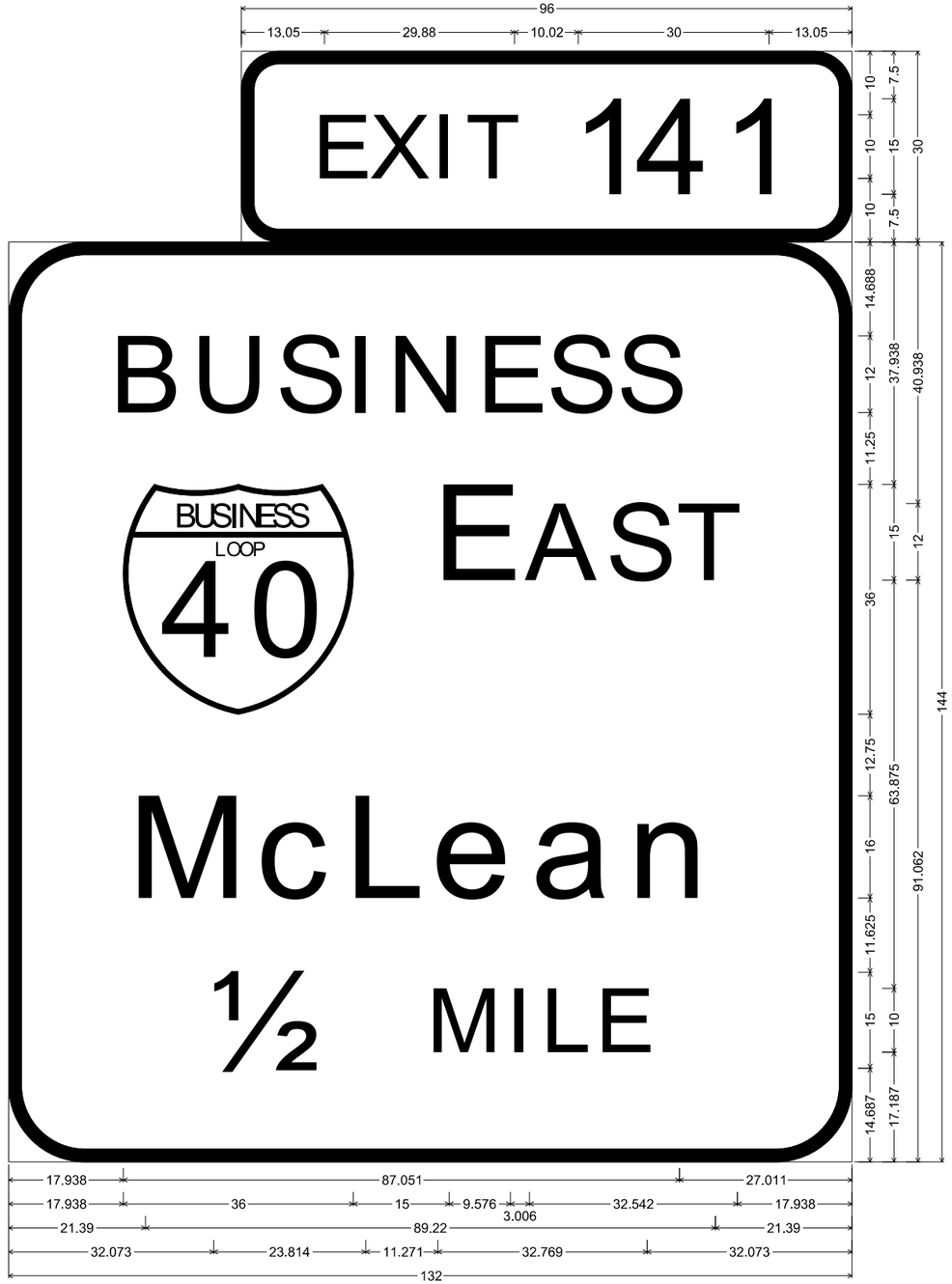
SHEET 51 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	93
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:39 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_02.dgn

100%
SUBMITTAL

"EXIT 141", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;



E1-2_VARx120;
12.000" Radius, 2.000" Border, White on Green;
"BUSINESS", ClearviewHwy-5-W-R; Business Loop 40 M1-2; "E AST", ClearviewHwy-5-W-R; "McLean", ClearviewHwy-5-W-R;
"½ MILE", ClearviewHwy-5-W-R;

SIGN 188

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

SHEET 52 OF 63

			HIGHWAY NO.
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	AMARILLO	POTTER	94
CONTROL	SECTION	JOB	
0904	00	223	

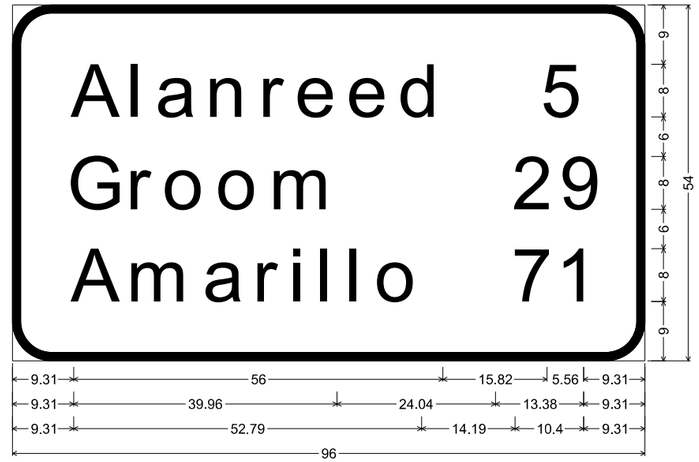
9/20/2023 7:04:39 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9\DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_02.dgn

100%
SUBMITTAL

"EXIT 141", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;

E1-2_VARx120;
12.000" Radius, 2.000" Border, White on Green;
"BUSINESS", ClearviewHwy-5-W-R; Business Loop 40 M1-2; "E AST", ClearviewHwy-5-W-R; "McLean", ClearviewHwy-5-W-R;
Arrow A-3 - 35.625" 45°;

SIGN 189



E7-3T_VARx54;
6.00" Radius, 1.25" Border, White on Green;
"Alanreed", ClearviewHwy-5-W-R; "5", ClearviewHwy-5-W-R; "Groom", ClearviewHwy-5-W-R;
"29", ClearviewHwy-5-W-R; "Amarillo", ClearviewHwy-5-W-R; "71", ClearviewHwy-5-W-R;

SIGN 190

STATE OF TEXAS
JUAN E. TREVIÑO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

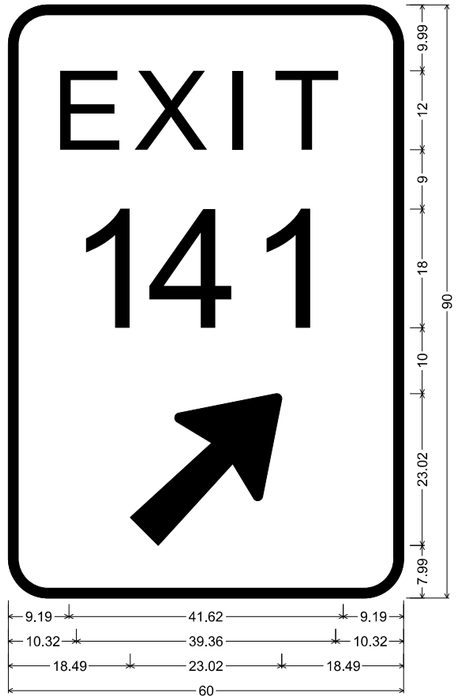
LARGE SIGN DETAILS

SHEET 53 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	95
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:39 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_02.dgn

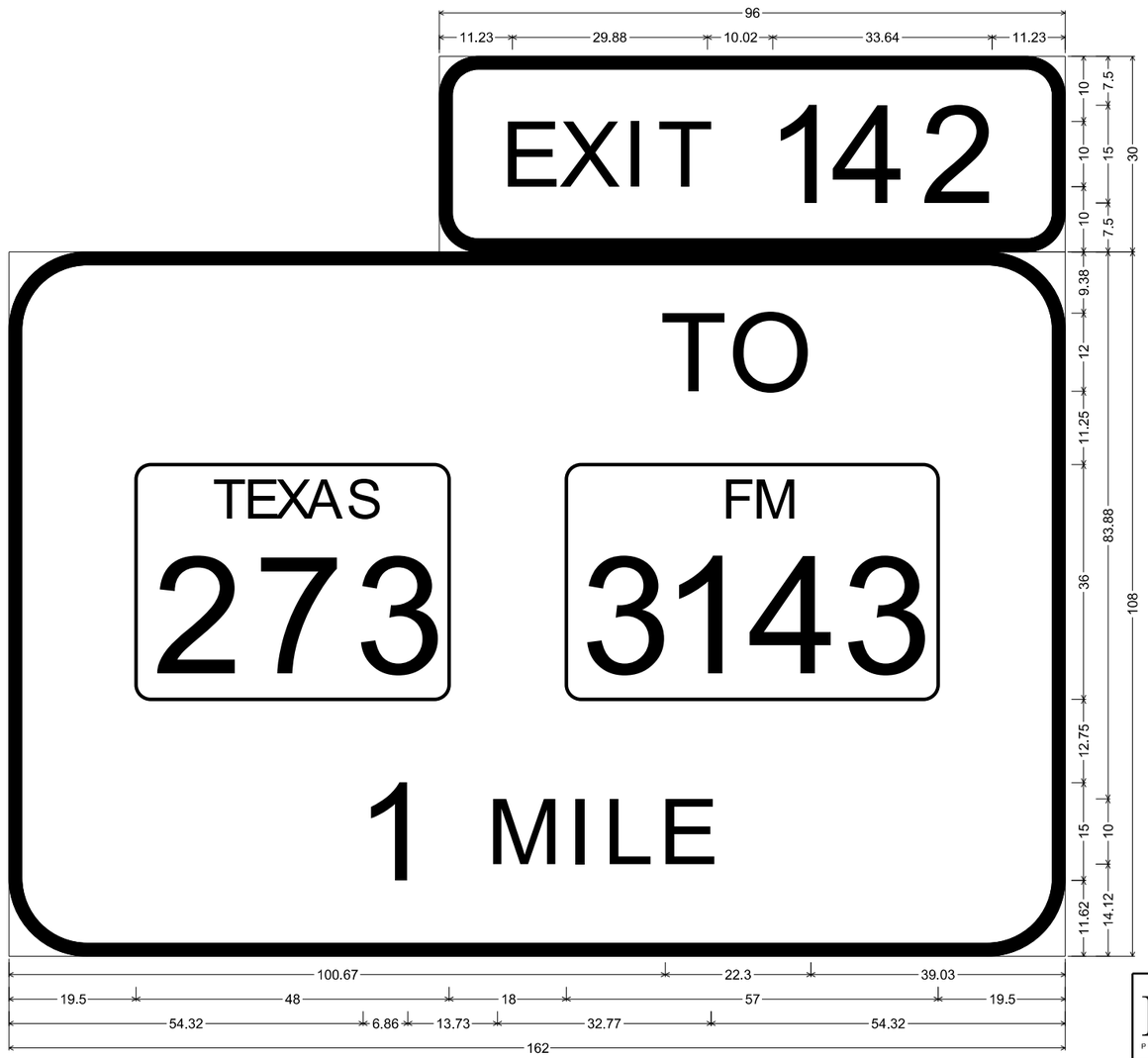
100%
SUBMITTAL



E5-1c_60x90;
6.00" Radius, 1.50" Border, White on Green;
"EXIT", ClearviewHwy-6-W;
"132", ClearviewHwy-4-W specified length;
Arrow A-2 - 29.25" 45°;

SIGN 191

"EXIT 142", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, Whlte on Green;
E1-5P_96x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
"TO ", ClearviewHwy-5-W-R; State Highway 273 M1-6T3; State Highway 3143 M1-6F4; "1 MILE", ClearviewHwy-5-W-R;

SIGN 192 204

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
NOT LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N. T. S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

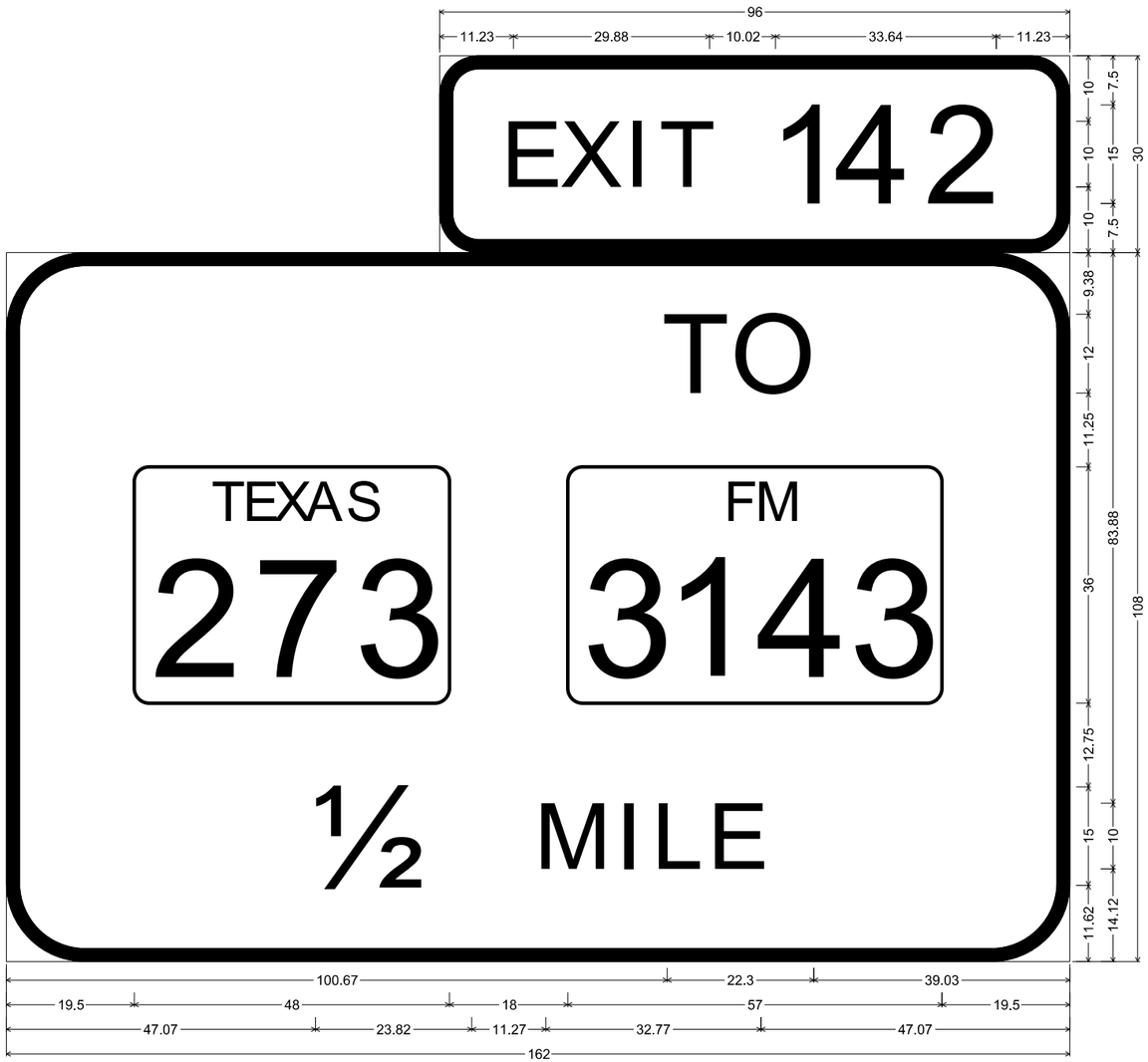
SHEET 54 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	96
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:40 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9\DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_02.dgn

100%
SUBMITTAL

"EXIT 142", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
"TO ", ClearviewHwy-5-W-R; State Highway 273 M1-6T3; State Highway 3143 M1-6F4; "½ MILE", ClearviewHwy-5-W-R;

SIGN 195 203

STATE OF TEXAS
JUAN E. TREVIÑO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

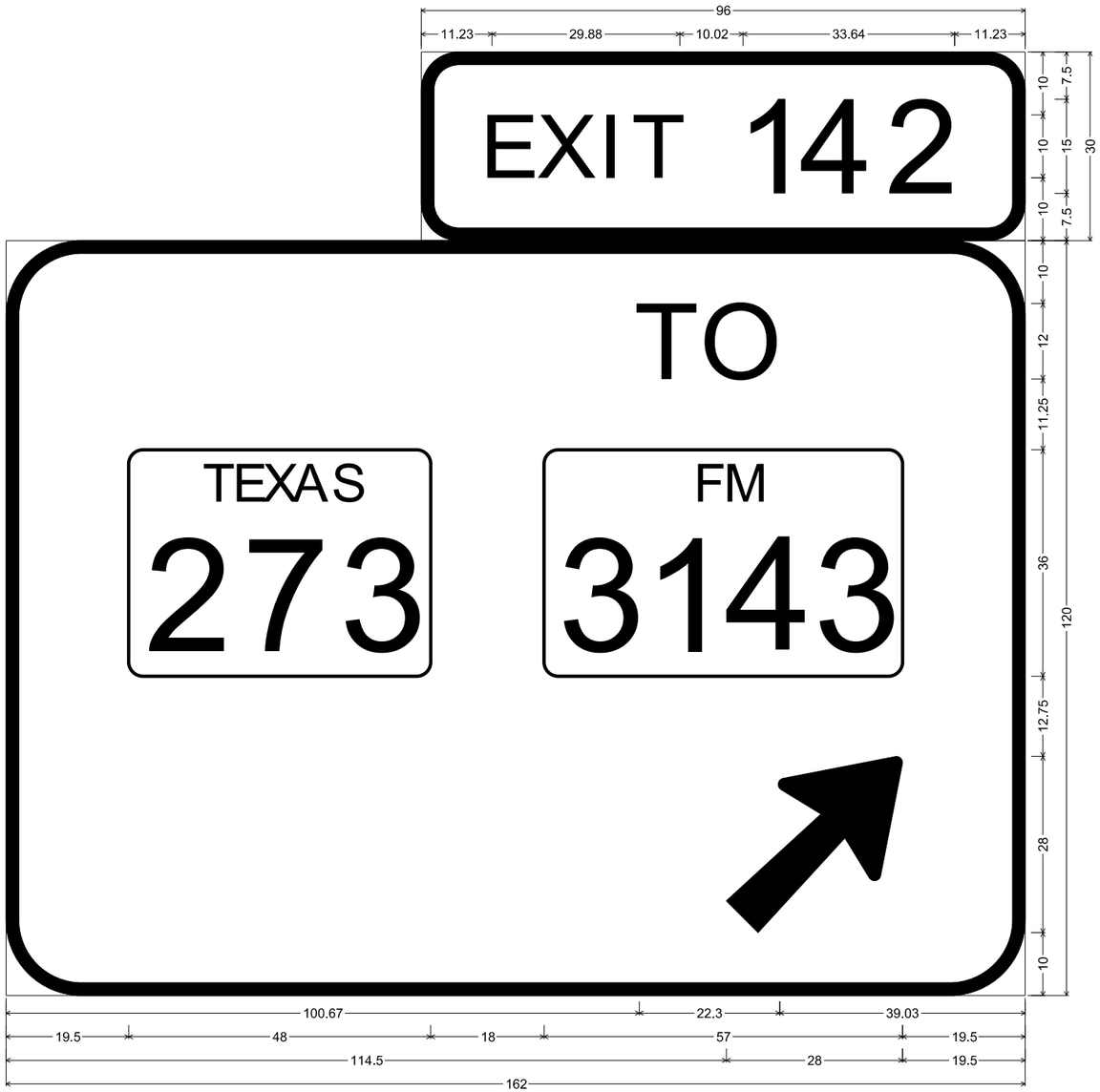
SHEET 55 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	97
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:40 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9\DP5101\W4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_02.dgn

100%
SUBMITTAL

"EXIT 142", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;



E1-2_VARx120;
12.00" Radius, 2.00" Border, White on Green;
"TO ", ClearviewHwy-5-W-R; State Highway 273 M1-6T3; State Highway 3143 M1-6F4; Arrow A-3 - 35.63" 45°;

SIGN 196 202

E5-1c_60x90;
6.00" Radius, 1.50" Border, White on Green;
"EXIT", ClearviewHwy-6-W;
"132", ClearviewHwy-4-W specified length;
Arrow A-2 - 29.25" 45°;

SIGN 197

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
NOT LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N. T. S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

SHEET 56 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	98
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:40 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_02.dgn

100%
SUBMITTAL

E5-1c_60x90;
6.00" Radius, 1.50" Border, White on Green;
"EXIT", ClearviewHwy-6-W;
"143", ClearviewHwy-4-W specified length;
Arrow A-2 - 29.25" 45°;

SIGN 205

JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
STATE OF TEXAS

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

SHEET 57 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	99
CONTROL	SECTION	JOB	
0904	00	223	

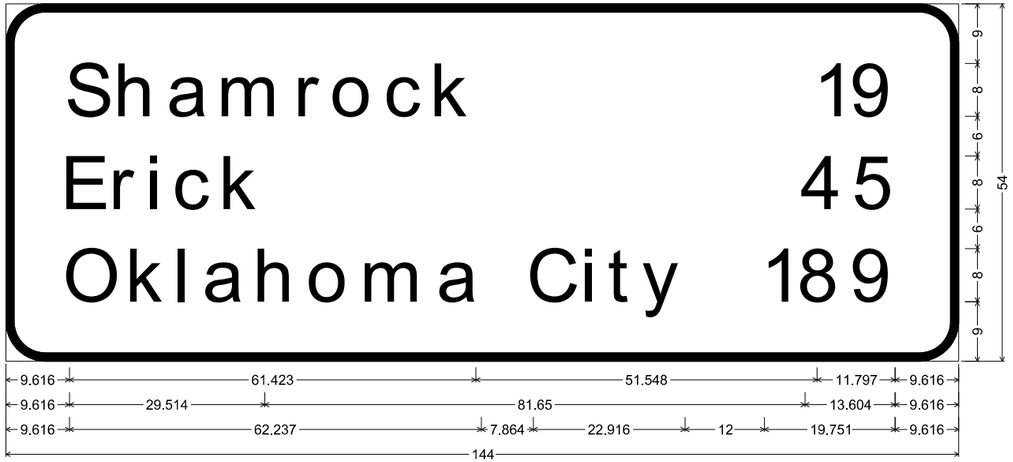
9/20/2023 7:04:41 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_02.dgn

100%
SUBMITTAL

"EXIT 143", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;

E1-2_VARx120;
12.000" Radius, 2.000" Border, White on Green;
"BUSINESS", ClearviewHwy-5-W-R; Business Loop 40 M1-2; "W EST", ClearviewHwy-5-W-R; "McLean", ClearviewHwy-5-W-R;
Arrow A-3 - 35.625" 45°;

SIGN 206



E7-3T_VARx54;
6.000" Radius, 1.250" Border, White on Green;
"Shamrock", ClearviewHwy-5-W-R; "19", ClearviewHwy-5-W-R; "Erick", ClearviewHwy-5-W-R; "45", ClearviewHwy-5-W-R;
"Oklahoma City", ClearviewHwy-5-W-R; "189", ClearviewHwy-5-W-R;

SIGN 207

STATE OF TEXAS
JUAN E. TREVIÑO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/21/2023

SCALE: N. T. S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

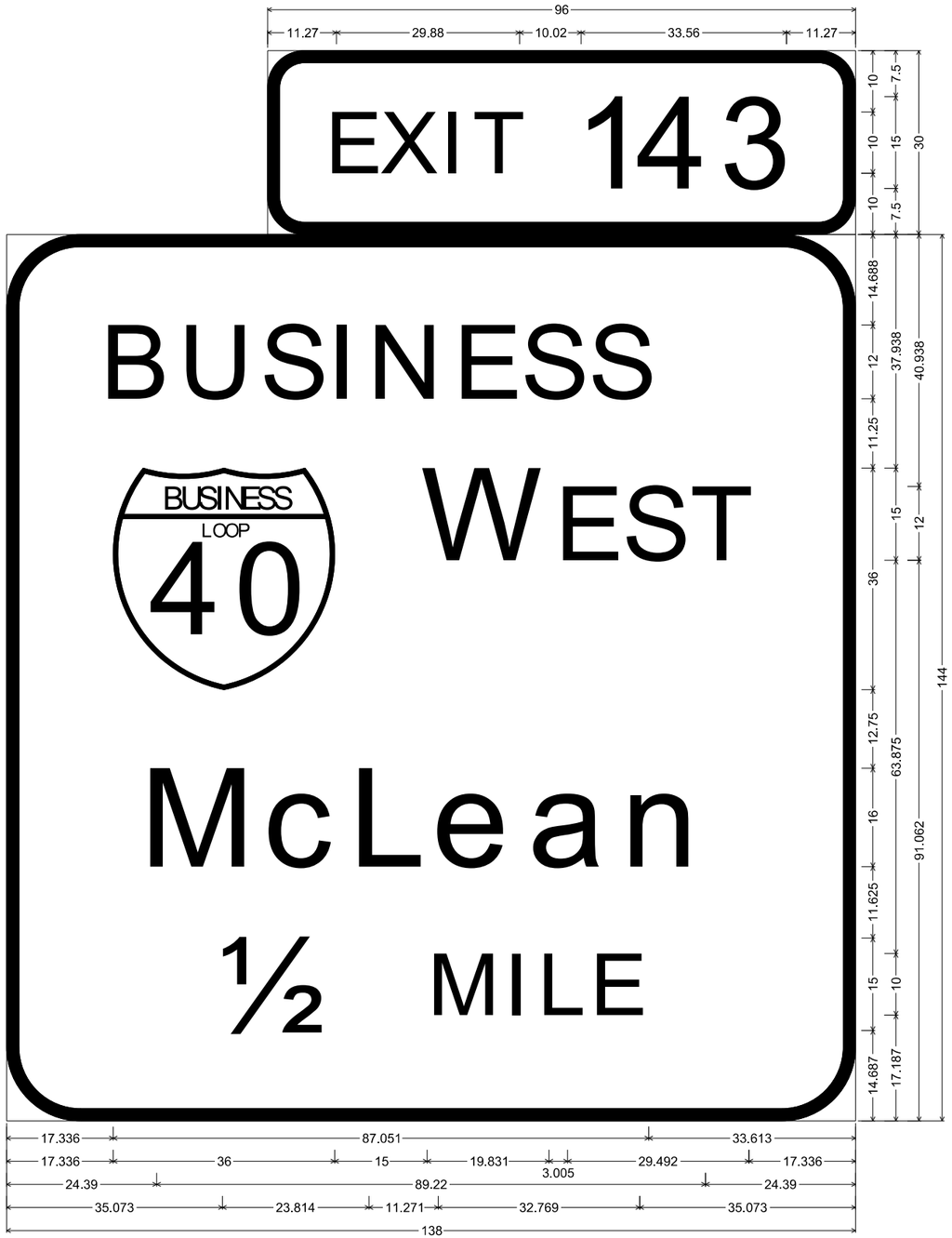
SHEET 58 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	100
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:41 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_02.dgn

100%
SUBMITTAL

"EXIT 143", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;



SIGN 208

E1-2_VARx120;
12.000" Radius, 2.000" Border, White on Green;
"BUSINESS", ClearviewHwy-5-W-R; Business Loop 40 M1-2; "W EST", ClearviewHwy-5-W-R; "McLean", ClearviewHwy-5-W-R;
"½ MILE", ClearviewHwy-5-W-R;

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER
9/21/2023

SCALE: N. T. S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

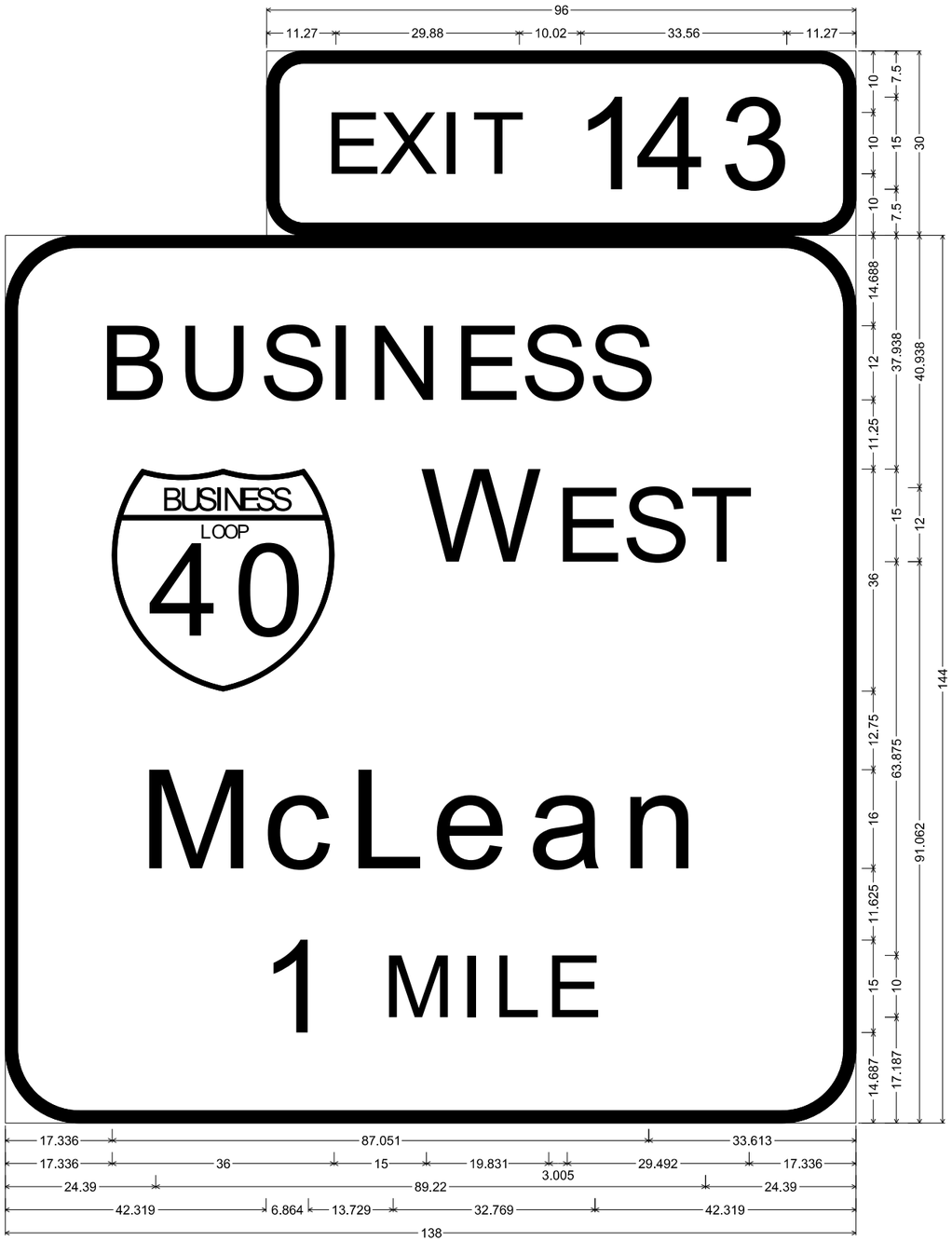
SHEET 59 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	101
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:41 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9\DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_02.dgn

100%
SUBMITTAL

"EXIT 143", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;



E1-2_VARx120;
12.000" Radius, 2.000" Border, White on Green;
"BUSINESS", ClearviewHwy-5-W-R; Business Loop 40 M1-2; "W EST", ClearviewHwy-5-W-R; "McLean", ClearviewHwy-5-W-R;
"1 MILE", ClearviewHwy-5-W-R;

SIGN 209

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

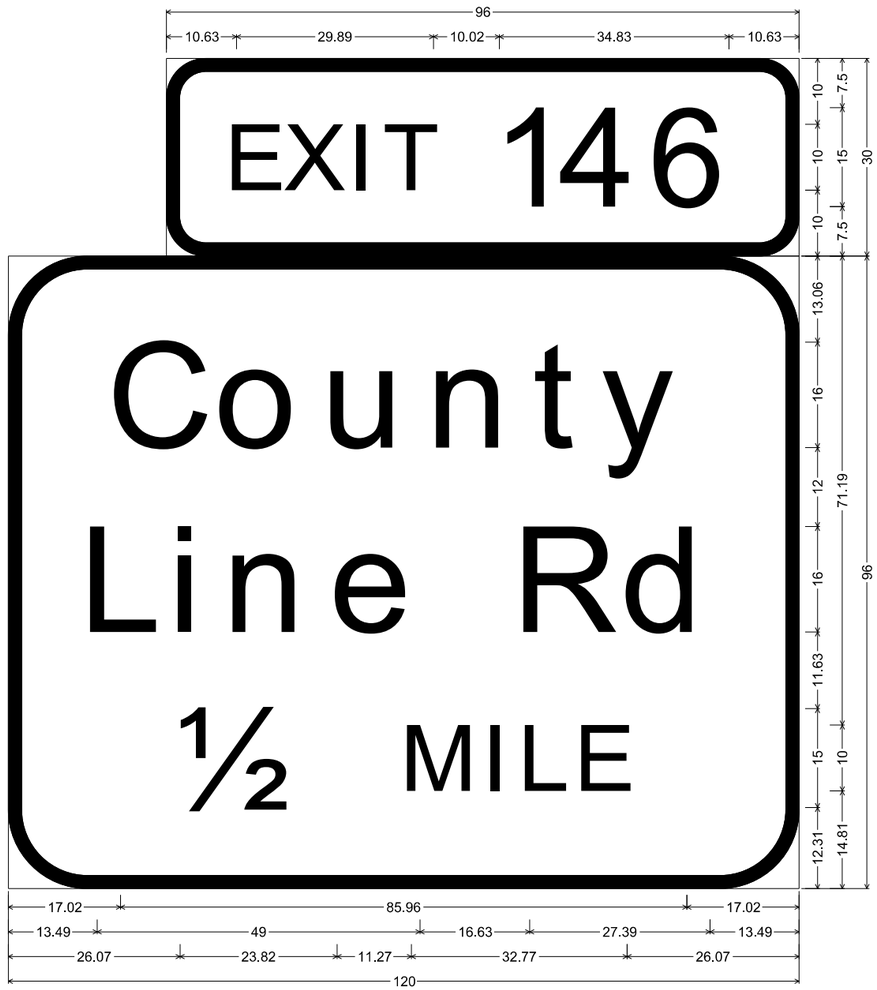
SHEET 60 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	102
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:42 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_02.dgn

100%
SUBMITTAL

"EXIT 146", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, Whlte on Green;
E1-5P_96x30;



E1-1a_VARx150;
12.00" Radius, 2.00" Border, White on Green;
"County", ClearviewHwy-5-W-R; "Line Rd", ClearviewHwy-5-W-R; "½ MILE", ClearviewHwy-5-W-R;

SIGN 211

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

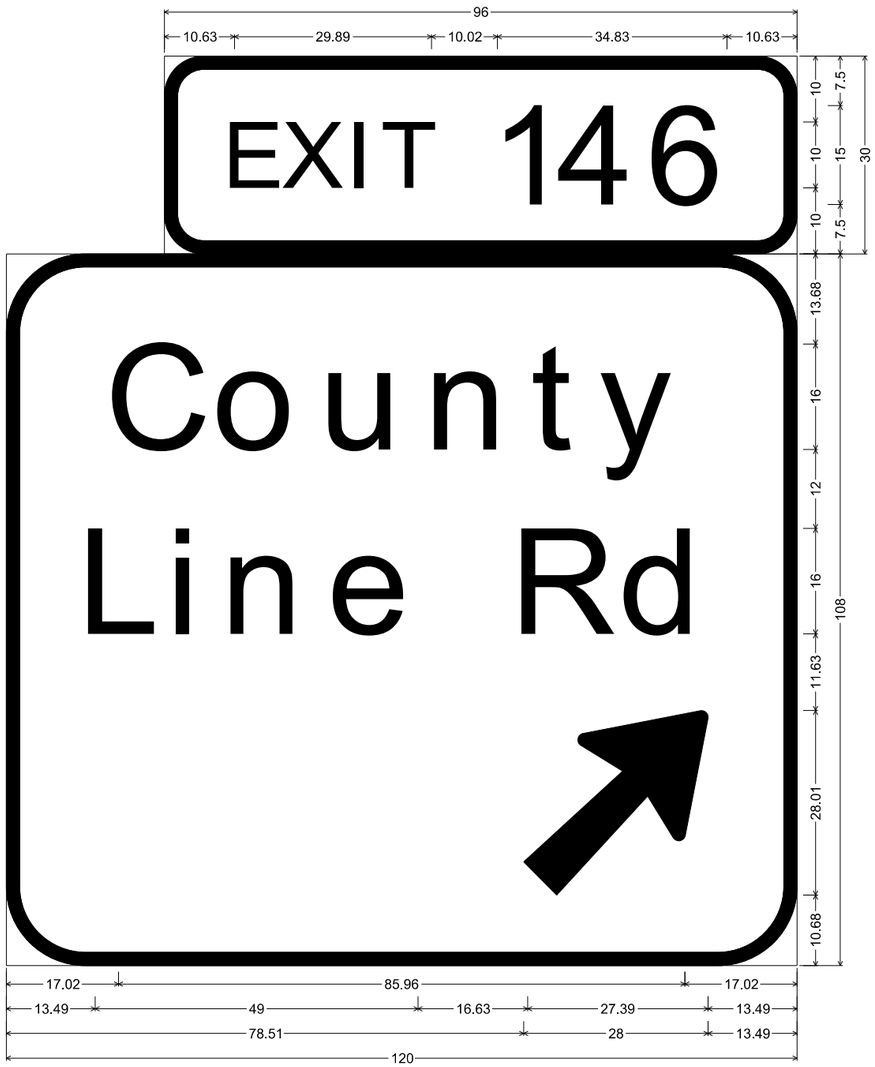
SHEET 61 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	103
CONTROL	SECTION	JOB	
0904	00	223	

9/21/2023 4:05:31 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_02.dgn

100%
SUBMITTAL

"EXIT 146", ClearviewHwy-4-W;
6.00" Radius, 2.00" Border, White on Green;
E1-5P_96x30;



E1-1a_VARx150;
12.00" Radius, 2.00" Border, White on Green;
"County", ClearviewHwy-5-W-R; "Line Rd", ClearviewHwy-5-W-R; Arrow A-3 - 35.63" 45°;

SIGN 212

E5-1c_60x90;
6.00" Radius, 1.50" Border, White on Green;
"EXIT", ClearviewHwy-6-W;
"146", ClearviewHwy-4-W specified length;
Arrow A-2 - 29.25" 45°;

SIGN 213

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N.T.S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

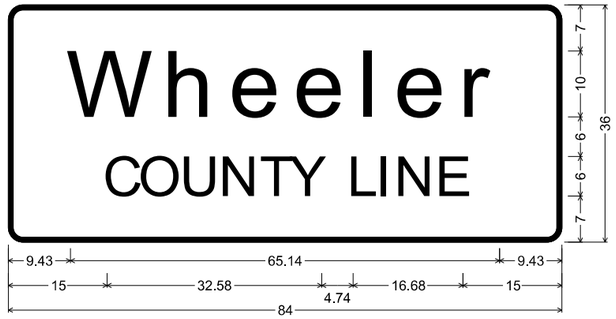
SHEET 62 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	
CONTROL	SECTION	JOB	104
0904	00	223	

AMA03_SGDTL_02.dgn

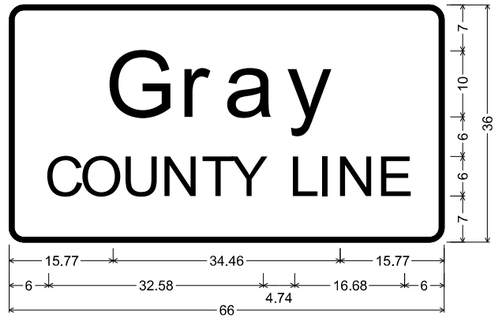
9/20/2023 7:04:42 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_02.dgn

100%
SUBMITTAL



I-2dT 10in;
2.25" Radius, 0.75" Border, White on Green;
"Wheeler", ClearviewHwy-5-W-R; "COUNTY LINE", ClearviewHwy-3-W;

SIGN 214



I-2dT 10in;
2.25" Radius, 0.75" Border, White on Green;
"Gray", ClearviewHwy-5-W-R;
"COUNTY LINE", ClearviewHwy-3-W;

SIGN 217

STATE OF TEXAS
JUAN E. TREVIÑO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

9/21/2023

SCALE: N. T. S.

IDCUS
PLANNERS • ENGINEERS • MANAGERS
8632 Fredericksburg Rd.
Suite 200
San Antonio, Tx. 78240
(210) 448-1800
FIRM # F-6825

Texas Department of Transportation

IH 40

LARGE SIGN DETAILS

SHEET 63 OF 63

			HIGHWAY NO
			VARIOUS
STATE	DISTRICT	COUNTY	SHEET NO
TEXAS	AMARILLO	POTTER	105
CONTROL	SECTION	JOB	
0904	00	223	

9/20/2023 7:04:43 PM
Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\08_TRAFFIC\AMA03_SGDTL_02.dgn

SUMMARY OF SMALL SIGNS

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

SIGN PLAN LAYOUT SHEET NO.	SIGN NO.	SIGN NOMENCLATURE	SIGN	DIMENSIONS	FLAT ALUMINUM (TYPE A)	EXAL ALUMINUM (TYPE G)	POST TYPE: FRP = Fiberglass; TWT = Thin-Wall; 10BWG = 10 BWG; S80 = Sch 80	POSTS: 1 or 2	ANCHOR TYPE: UA=Universal Conc; UB=Universal Bolt; SA=Slipbase-Conc; SB=Slipbase-Bolt; WS=Wedge Steel; WP=Wedge Plastic	MOUNTING DESIGNATION – PREFABRICATED: P = "Plain"; T = "T"; U = "U"	MOUNTING DESIGNATION: 1EXT or 2EXT = # of Ext; BM = Extruded Wind Beam; WC = 1.12 #/ft Wing Channel; EXAL= Extruded Alum Sign Panels	BRIDGE MOUNT CLEARANCE SIGNS (TO BE REMOVED) TY = TYPE: TY N, TY S
1	3	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
1	4	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
1	8	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
1	9	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
1	21	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
1	22	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
1	31	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
1	32	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
2	36	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
2	37	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
2	38	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
2	39	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N

ALUMINUM SIGN BLANKS THICKNESS	
Square Feet	Minimum Thickness
Less than 7.5	0.100"
7.5 or Greater	0.125"

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website.

http://www.txdot.gov/

NOTE:

1. Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.
2. For installation of bridge mount clearance signs, see Bridge Mounted Clearance Sign Assembly (BMCS) Standard Sheet.
3. For Sign Support Descriptive Codes, see Sign Mounting Details Small Roadside Signs General Notes & Details SMD(GEN).

10/26/2023

SHEET 1 OF 5

Texas Department of Transportation

Traffic Operations Division Standard

SUMMARY OF SMALL SIGNS

SOSS

FILE: sums16.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT May 1987	CONT 0904	SECT 00	JOB 223	HIGHWAY VARIOUS
REVISIONS 4-16 8-16	DIST AMA		COUNTY POTTER	SHEET NO. 106

DATE: 10/26/2023 5:19:44 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 6\CADD\DGN\09_ROADWAY\STD\sums16.dgn

SUMMARY OF SMALL SIGNS

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

SIGN PLAN LAYOUT SHEET NO.	SIGN NO.	SIGN NOMENCLATURE	SIGN	DIMENSIONS	FLAT ALUMINUM (TYPE A)	EXAL ALUMINUM (TYPE G)	POST TYPE: FRP = Fiberglass TWT = Thin-Wall 10BWG = 10 BWG S80 = Sch 80	POSTS: 1 or 2	ANCHOR TYPE: UA=Universal Conc UB=Universal Bolt SA=Slipbase-Conc SB=Slipbase-Bolt WS=Wedge Steel WP=Wedge Plastic	MOUNTING DESIGNATION: PREFABRICATED P = "Plain" T = "T" U = "U"	MOUNTING DESIGNATION: 1EXT or 2EXT = # of Ext BM = Extruded Wind Beam WC = 1.12 #/ft Wing Channel EXAL= Extruded Alum Sign Panels	BRIDGE MOUNT CLEARANCE SIGNS (TO BE REMOVED) TY = TYPE
2	40	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
2	41	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
2	42	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
2	43	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
2	49	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
2	50	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
2	51	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
2	52	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
2	57	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
2	58	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
2	59	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
2	60	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N

DATE:
FILE:

ALUMINUM SIGN BLANKS THICKNESS	
Square Feet	Minimum Thickness
Less than 7.5	0.100"
7.5 or Greater	0.125"

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website.

http://www.txdot.gov/

NOTE:

1. Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.
2. For installation of bridge mount clearance signs, see Bridge Mounted Clearance Sign Assembly (BMCS)Standard Sheet.
3. For Sign Support Descriptive Codes, see Sign Mounting Details Small Roadside Signs General Notes & Details SMD(GEN).

STATE OF TEXAS
JUAN E. TREVIÑO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

10/26/2023

Texas Department of Transportation

Traffic Operations Division Standard

SUMMARY OF SMALL SIGNS

SOSS

FILE: sums16.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT May 1987	CONT	SECT	JOB	HIGHWAY
REVISIONS	0904	00	223	VARIOUS
4-16	DIST	COUNTY		SHEET NO.
8-16	AMA	POTTER		107

18

SUMMARY OF SMALL SIGNS

SIGN PLAN LAYOUT SHEET NO.	SIGN NO.	SIGN NOMENCLATURE	SIGN	DIMENSIONS	FLAT ALUMINUM (TYPE A)	EXAL ALUMINUM (TYPE G)	SM RD SGN ASSM TY XXXXX (X) XX (X-XXXX) POST TYPE FRP = Fiberglass TWT = Thin-Wall 10BWG = 10 BWG S80 = Sch 80	POSTS 1 or 2	ANCHOR TYPE UA=Universal Conc UB=Universal Bolt SA=Slipbase-Conc SB=Slipbase-Bolt WS=Wedge Steel WP=Wedge Plastic	MOUNTING DESIGNATION PREFABRICATED P = "Plain" T = "T" U = "U"	1EXT or 2EXT = # of Ext BM = Extruded Wind Beam WC = 1.12 #/ft Wing Channel EXAL= Extruded Alum Sign Panels	BRIDGE MOUNT CLEARANCE SIGNS (TO BE REMOVED) TY = TYPE
2	66	W12-2a	XXFT XXIN	84x24		✓	10BWG	1	SA	T		TY N
2	67	W12-2a	XXFT XXIN	84x24		✓	10BWG	1	SA	T		TY N
3	68	W12-2a	XXFT XXIN	84x24		✓	10BWG	1	SA	T		TY N
3	69	W12-2a	XXFT XXIN	84x24		✓	10BWG	1	SA	T		TY N
3	73	W12-2a	XXFT XXIN	84x24		✓	10BWG	1	SA	T		TY N
3	74	W12-2a	XXFT XXIN	84x24		✓	10BWG	1	SA	T		TY N
3	82	W12-2a	XXFT XXIN	84x24		✓	10BWG	1	SA	T		TY N
3	83	W12-2a	XXFT XXIN	84x24		✓	10BWG	1	SA	T		TY N
4	119	W12-2a	XXFT XXIN	84x24		✓	10BWG	1	SA	T		TY N
4	120	W12-2a	XXFT XXIN	84x24		✓	10BWG	1	SA	T		TY N
5	129	W12-2a	XXFT XXIN	84x24		✓	10BWG	1	SA	T		TY N
5	130	W12-2a	XXFT XXIN	84x24		✓	10BWG	1	SA	T		TY N

DATE:
FILE:

ALUMINUM SIGN BLANKS THICKNESS	
Square Feet	Minimum Thickness
Less than 7.5	0.100"
7.5 or Greater	0.125"

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website.

http://www.txdot.gov/

NOTE:

1. Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.
2. For installation of bridge mount clearance signs, see Bridge Mounted Clearance Sign Assembly (BMCS)Standard Sheet.
3. For Sign Support Descriptive Codes, see Sign Mounting Details Small Roadside Signs General Notes & Details SMD(GEN).

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

10/26/2023

Texas Department of Transportation

Traffic Operations Division Standard

SUMMARY OF SMALL SIGNS

SOSS

FILE: sums16.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT May 1987	CONT	SECT	JOB	HIGHWAY
REVISIONS	0904	00	223	VARIOUS
4-16	DIST	COUNTY		SHEET NO.
8-16	AMA	POTTER		108

18

SUMMARY OF SMALL SIGNS

SIGN PLAN LAYOUT SHEET NO.	SIGN NO.	SIGN NOMENCLATURE	SIGN	DIMENSIONS	FLAT ALUMINUM (TYPE A)	EXAL ALUMINUM (TYPE G)	SM RD SGN ASSM TY XXXXX (X) XX (X-XXXX) POST TYPE	POSTS	ANCHOR TYPE	MOUNTING DESIGNATION PREFABRICATED	MOUNTING DESIGNATION 1EXT or 2EXT = # of Ext BM = Extruded Wind Beam WC = 1.12 #/ft Wing Channel EXAL= Extruded Alum Sign Panels	BRIDGE MOUNT CLEARANCE SIGNS (TO BE REMOVED) TY = TYPE
							FRP = Fiberglass TWT = Thin-Wall 10BWG = 10 BWG S80 = Sch 80	1 or 2	UA=Universal Conc UB=Universal Bolt SA=Slipbase-Conc SB=Slipbase-Bolt WS=Wedge Steel WP=Wedge Plastic	P = "Plain" T = "T" U = "U"		TY N TY S
5	140	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
5	141	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
5	155	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
5	156	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
6	176	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
6	177	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
6	178	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
6	179	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
6	184	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
6	185	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
7	193	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
7	194	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N

DATE:
FILE:

ALUMINUM SIGN BLANKS THICKNESS	
Square Feet	Minimum Thickness
Less than 7.5	0.100"
7.5 or Greater	0.125"

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website.

http://www.txdot.gov/

NOTE:

1. Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.
2. For installation of bridge mount clearance signs, see Bridge Mounted Clearance Sign Assembly (BMCS)Standard Sheet.
3. For Sign Support Descriptive Codes, see Sign Mounting Details Small Roadside Signs General Notes & Details SMD(GEN).

STATE OF TEXAS
JUAN E. TREVINO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

10/26/2023

Texas Department of Transportation

Traffic Operations Division Standard

SUMMARY OF SMALL SIGNS

SOSS

FILE:	sums16.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT	May 1987	CONT	SECT	JOB	HIGHWAY
REVISIONS		0904	00	223	VARIOUS
4-16		DIST	COUNTY		SHEET NO.
8-16		AMA	POTTER		109

18

SUMMARY OF SMALL SIGNS

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

SIGN PLAN LAYOUT SHEET NO.	SIGN NO.	SIGN NOMENCLATURE	SIGN	DIMENSIONS	FLAT ALUMINUM (TYPE A)	EXAL ALUMINUM (TYPE G)	POST TYPE FRP = Fiberglass TWT = Thin-Wall 10BWG = 10 BWG S80 = Sch 80	POSTS 1 or 2	ANCHOR TYPE UA=Universal Conc UB=Universal Bolt SA=Slipbase-Conc SB=Slipbase-Bolt WS=Wedge Steel WP=Wedge Plastic	MOUNTING DESIGNATION PREFABRICATED P = "Plain" T = "T" U = "U"	MOUNTING DESIGNATION 1EXT or 2EXT = # of Ext BM = Extruded Wind Beam WC = 1.12 #/ft Wing Channel EXAL= Extruded Alum Sign Panels	BRIDGE MOUNT CLEARANCE SIGNS (TO BE REMOVED) TY = TYPE
7	198	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
7	199	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
7	200	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
7	201	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
7	215	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N
7	216	W12-2a	XX FT XX IN	84x24		✓	10BWG	1	SA	T		TY N

ALUMINUM SIGN BLANKS THICKNESS	
Square Feet	Minimum Thickness
Less than 7.5	0.100"
7.5 or Greater	0.125"

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website.

http://www.txdot.gov/

NOTE:

1. Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.
2. For installation of bridge mount clearance signs, see Bridge Mounted Clearance Sign Assembly (BMCS)Standard Sheet.
3. For Sign Support Descriptive Codes, see Sign Mounting Details Small Roadside Signs General Notes & Details SMD(GEN).

STATE OF TEXAS
JUAN E. TREVIÑO-GUERRA
141908
LICENSED
PROFESSIONAL ENGINEER

10/26/2023

SHEET 5 OF 5

Texas Department of Transportation

Traffic Operations Division Standard

SUMMARY OF SMALL SIGNS

SOSS

FILE: sums16.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT May 1987	CONT	SECT	JOB	HIGHWAY
REVISIONS	0904	00	223	VARIOUS
4-16	DIST	COUNTY		SHEET NO.
8-16	AMA	POTTER		110

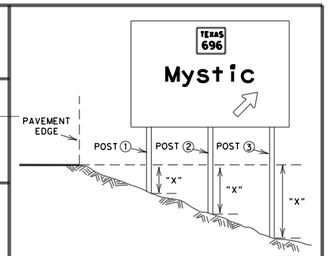
18

DATE:
FILE:

DATE: 9/20/2023 7:04:44 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03*ROADWAY\STD\sum108.dgn

SUMMARY OF LARGE SIGNS

SIGN PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION ◒			GALVANIZED STRUCTURAL STEEL					DRILLED SHAFT			
					DIRECT APPLY	⚹ ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post ①	post ②	post ③	SIZE	LINEAR FEET post ①	LINEAR FEET post ②	LINEAR FEET post ③	TOTAL WEIGHT LBS.	LINEAR FEET NON-REINF 12"ϕ	LINEAR FEET REINFORCED 24"ϕ	LINEAR FEET REINFORCED 30"ϕ	LINEAR FEET REINFORCED 36"ϕ
1	1	GREEN	CARSON COUNTY LINE	6' 0" X 3' 0"			18.00		121	4.1	4.5		S3X5.7	14.1	14.5		220.8	7			
1	2	GREEN	POTTER COUNTY LINE	5' 6" X 3' 0"			16.50		121	1.9	1.5		S3X5.7	11.9	11.5		191.2	7			
1	5	GREEN	EXIT 85 DURRETT RD 1/2 MILE	7' 0" X 2' 6" 14' 0" X 6' 0"			17.50 84.00		121	1.6	1.3		W6X15	14.6	14.3		469.1		12		
1	6	GREEN	EXIT 85 DURRETT RD Directional Arrow (Right)	7' 0" X 2' 6" 10' 0" X 7' 0"			17.50 70.00		121	1.5	1.5		W6X12	15.5	15.5		452.6		11		
1	7	GREEN	EXIT 85 Directional Arrow (Right)	5' 0" X 7' 6"			37.50		121	0.3	0.6		S4X7.7	14.8	15.1		300.6	7			
1	10	BLUE	PICNIC AREA 1 MILE	10' 0" X 5' 0"			50.00		121	2.0	2.0		W6X9	14.0	14.0		318.4		9		
1	11	GREEN	EXIT 85 Directional Arrow (Right)	5' 0" X 7' 6"			37.50		121	0.1	3.0		S4x7.7	14.6	17.5		317.6	7			
1	12	GREEN	EXIT 85 BUSINESS OFF-INTERSTATE RT MR (LOOP) 40 WEST AMARILLO BLVD Directional Arrow (Right)	7' 0" X 2' 6" 11' 6" X 13' 6"	 9.00		17.50 155.25		121	2.8	1.1		W8X18	23.3	21.6		851.8		16		
1	13	GREEN	EXIT 87 FM 2373 1 MILE	7' 0" X 2' 6" 7' 6" X 7' 6"	 15.75		17.50 56.25		121	3.6	3.8		W6X9	18.1	18.3		394.0		11		
1	14	GREEN	EXIT 85 BUSINESS OFF-INTERSTATE RT MR (LOOP) 40 WEST AMARILLO BLVD 1/2 MILE	7' 0" X 2' 6" 11' 6" X 14' 6"	 9.00		17.50 166.75		121	3.0	2.1		W8X21	24.5	23.6		1099.5		16		
			PAGE TOTALS			0.00	779.25	0.00						PAGE TOTALS			4615.6	28	75	0	0



◒ The "X" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.

Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.

The post lengths listed here are approximations, The corrected post lengths will be furnished by the Contractor after the stud posts are placed.

Tower heights shall be verified with the Engineer before fabrication.

⚹ This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.

SIGN TYPE

SIGN TYPE 1 3 0
- 1 — Wind Design Zone
- 3 — Series No.
- 0 — 0 Aluminum/Fiberglass, 1 Aluminum, 2 Fiberglass
- 0 — No. of Posts

See sheet SMD(8W1)

SHEET 1 OF 17

SUMMARY OF LARGE SIGNS

SOLS

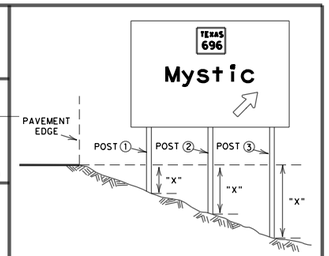
		REVISIONS	
DN.: TxDOT		11-93	1-04
CK.: TxDOT		8-95	9-08
DW.: TxDOT		5-01	
CK.: TxDOT			

CONT	SECT	JOB	HIGHWAY
0904	00	223	VARIOUS
DIST	COUNTY		SHEET NO.
AMA	POTTER		111

DATE: 9/20/2023 7:04:44 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03*ROADWAY\STD\sum108.dgn

SUMMARY OF LARGE SIGNS

SIGN PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION ◒			GALVANIZED STRUCTURAL STEEL					DRILLED SHAFT			
					DIRECT APPLY	⚹ ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post ①	post ②	post ③	SIZE	LINEAR FEET post ①	post ②	post ③	TOTAL WEIGHT LBS.	LINEAR FEET NON-REINF 12"ϕ	REINFORCED 24"ϕ	30"ϕ	36"ϕ
1	15	GREEN	EXIT 87 FM 2373 1/2 MILE	7' 0" X 2' 6" 8' 6" X 7' 6"	 15.75 		17.50 63.75		121	3.6	3.8		W6X9	18.1	18.3		394.0		11		
1	16	GREEN	INTERSTATE ROUTE MARKER 40 PURPLE HEART TRAIL Purple Heart Medal	14' 0" X 4' 6"	9.00 9.00		63.00		121	5.5	5.5		W6X12	17.0	17.0		488.6		11		
1	17	GREEN	EXIT 85 BUSINESS OFF-INTERSTATE RT MR (LOOP) 40 WEST AMARILLO BLVD 1 MILE	7' 0" X 2' 6" 11' 6" X 14' 6"	 9.00 		17.50 166.75		121	3.0	2.1		W8X21	24.5	23.6		1099.5		16		
1	18	BLUE	PICNIC AREA Directional Arrow (Right)	6' 6" X 6' 6"	 		42.25		121	0.3	0.2		W6X9	13.8	13.7		313.9		9		
1	19	GREEN	EXIT 87 FARM TO MARKET ROUTE MARKER 2373 Directional Arrow (Right)	7' 0" X 2' 6" 7' 6" X 7' 6"	 15.75 		17.50 56.25		121	2.0	1.3		W6X9	16.5	15.8		357.1		11		
1	20	GREEN	EXIT 87 Directional Arrow (Right)	5' 0" X 7' 6"			37.50		121	0.3	0.3		S4X7.7	14.8	14.8		298.3	7			
1	23	GREEN	EXIT 87 Directional Arrow (Right)	5' 0" X 7' 6"			37.50		121	0.0	0.0		S4X7.7	14.5	14.5		293.7	7			
1	24	GREEN	EXIT 87 FARM TO MARKET ROUTE MARKER 2373 Directional Arrow (Right)	7' 0" X 2' 6" 7' 6" X 8' 0"	 15.75 		17.50 60.00		121	2.6	2.6		W6X12	17.6	17.6		503.0		11		
1	25	GREEN	EXIT 87 FARM TO MARKET ROUTE MARKER 2373 1/2 MILE	7' 0" X 2' 6" 8' 6" X 7' 6"	 15.75 		17.50 63.75		121	2.3	1.9		W6X9	16.8	16.4		365.2		11		
1	26	GREEN	EXIT 89 FARM TO MARKET ROUTE MARKER 2161 1/2 MILE	7' 0" X 2' 6" 8' 6" X 7' 6"	 12.50 		17.50 63.75		121	1.2	1.3		W6X9	15.7	15.8		349.9		11		
			PAGE TOTALS			0.00	759.50	0.00						PAGE TOTALS			4463.2	14	91	0	0



◒ The "X" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.

Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.

The post lengths listed here are approximations, The corrected post lengths will be furnished by the Contractor after the stud posts are placed.

Tower heights shall be verified with the Engineer before fabrication.

⚹ This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.

SIGN TYPE

SIGN TYPE 1 3 0
- 1: Wind Design Zone
- 3: Series No.
- 0: 0 Aluminum/Fiberglass, 1 Aluminum, 2 Fiberglass
- 0: No. of Posts

See sheet SMD(8W1)

SHEET 2 OF 17

SUMMARY OF LARGE SIGNS

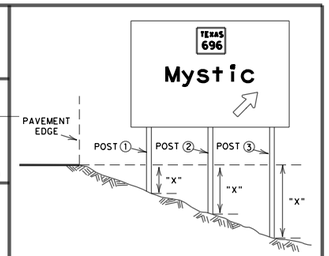
SOLS

		REVISIONS	
DN.: TxDOT			
CK.: TxDOT	11-93	1-04	
DW.: TxDOT	8-95	9-08	
CK.: TxDOT	5-01		

CONT	SECT	JOB	HIGHWAY
0904	00	223	VARIOUS
DIST	COUNTY		SHEET NO.
AMA	POTTER		112

SUMMARY OF LARGE SIGNS

SIGN PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION ◒			GALVANIZED STRUCTURAL STEEL					DRILLED SHAFT			
					DIRECT APPLY	⚹ ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post ①	post ②	post ③	SIZE	LINEAR FEET post ①	post ②	post ③	TOTAL WEIGHT LBS.	NON-REINF 12"ϕ	LINEAR FEET REINFORCED 24"ϕ	30"ϕ	36"ϕ
1	27	GREEN	EXIT 87	7' 0" X 2' 6"			17.50														
			FARM TO MARKET ROUTE MARKER 2373	7' 6" X 7' 6"	15.75		56.25		121	2.3	1.9		W6X12	16.8	16.4		479.0		11		
			1 MILE																		
1	28	GREEN	EXIT 89	7' 0" X 2' 6"			17.50														
			FARM TO MARKET ROUTE MARKER 2161	7' 6" X 8' 0"	12.5		60.00		121	1.8	1.8		W6X12	16.8	16.8		483.8		11		
			Directional Arrow (Right)																		
1	29	GREEN	INTERSTATE ROUTE MARKER 40	14' 0" X 4' 6"	9		63.00		121	4.4	4.6		W6X12	15.9	16.1		464.6		11		
			PURPLE HEART TRAIL																		
			PURPLE HEART MEDAL		9																
1	30	GREEN	EXIT	5' 0" X 7' 6"			37.50		121	0.0	0.1		S4X7.7	14.5	14.6		294.5	7			
			89																		
			Directional Arrow (Right)																		
1	33	GREEN	EXIT	5' 0" X 7' 6"			37.50		121	0.3	0.3		S4X7.7	14.8	14.8		298.3	7			
			89																		
			Directional Arrow (Right)																		
1	34	GREEN	EXIT 89	7' 0" X 2' 6"			17.50														
			FARM TO MARKET ROUTE MARKER 2161	7' 6" X 8' 0"	12.50		60.00		121	2.3	2.3		W6X12	17.3	17.3		495.8		11		
			Directional Arrow (Right)																		
1	35	GREEN	EXIT 89	7' 0" X 2' 6"			17.50														
			FARM TO MARKET ROUTE MARKER 2161	8' 6" X 7' 6"	12.50		63.75		121	2.9	2.5		W6X9	17.4	17.0		376.0		11		
			1/2 MILE																		
2	44	GREEN	EXIT 96	7' 0" X 2' 6"			17.50														
			TEXAS 207	12' 6" X 12' 0"	12.00		150.00		121	2.3	1.8		W8X18	21.25	20.75		799.6		11		
			CONWAY PANHANDLE																		
			1 MILE																		
2	45	GREEN	AMARILLO 27	11' 0" X 4' 6"			49.50														
			TUCUMCARI 137						121	2.2	2.5		W6X9	13.7	14.0		315.7		9		
			ALBUQUERQUE 310																		
2	46	GREEN	EXIT 96	7' 0" X 2' 6"			17.50														
			TEXAS 207	12' 6" X 12' 0"	12.00		150.00		121	2.3	1.8		W8X18	21.25	20.75		799.6		16		
			CONWAY PANHANDLE																		
			1/2 MILE																		
			PAGE TOTALS			0.00	832.50	0.00						PAGE TOTALS			4806.9	14	91	0	0



◒ The "X" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.

Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.

The post lengths listed here are approximations, The corrected post lengths will be furnished by the Contractor after the stud posts are placed.

Tower heights shall be verified with the Engineer before fabrication.

⚹ This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.

SIGN TYPE

SIGN TYPE 1 3 0
- 1 — Wind Design Zone
- 3 — Series No.
- 0 — 0 Aluminum/Fiberglass, 1 Aluminum, 2 Fiberglass
- 0 — No. of Posts

See sheet SMD(8W1)

SHEET 3 OF 17

SUMMARY OF LARGE SIGNS

SOLS

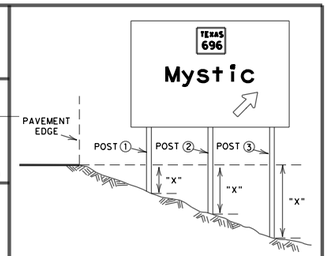
		REVISIONS	
DN.: TxDOT	11-93	1-04	
CK.: TxDOT	8-95	9-08	
DW.: TxDOT	5-01		
CK.: TxDOT			

CONT	SECT	JOB	HIGHWAY
0904	00	223	VARIOUS
DIST	COUNTY		SHEET NO.
AMA	POTTER		113

DATE: 9/20/2023 7:04:44 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03*ROADWAY\STD\sum108.dgn

SUMMARY OF LARGE SIGNS

SIGN PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION ◒			GALVANIZED STRUCTURAL STEEL					DRILLED SHAFT			
					DIRECT APPLY	⚹ ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post ①	post ②	post ③	SIZE	LINEAR FEET post ①	post ②	post ③	TOTAL WEIGHT LBS.	NON-REINF 12"ϕ	LINEAR FEET REINFORCED 24"ϕ	30"ϕ	36"ϕ
2	47	GREEN	EXIT 96 TEXAS 207 CONWAY PANHANDLE Directional Arrow (Right)	7' 0" X 2' 6" 12' 6" X 12' 6"	12.00		17.50 156.25		121	1.9	1.7		W8X18	21.4	21.2		810.4		18		
2	48	GREEN	EXIT 96 Directional Arrow (Right)	5' 0" X 7' 6"			37.50		121	0.3	0.3		S4X7.7	14.8	14.8		298.3	7			
2	53	GREEN	EXIT 96 Directional Arrow (Right)	5' 0" X 7' 6"			37.50		121	0.3	0.3		S4X7.7	14.8	14.8		298.3	7			
2	54	GREEN	EXIT 96 TEXAS 207 CONWAY PANHANDLE Directional Arrow (Right)	7' 0" X 2' 6" 12' 6" X 12' 6"	12.00		17.50 156.25		121	2.9	2.2		W8X18	22.4	21.7		837.4		18		
2	55	GREEN	EXIT 96 TEXAS 207 CONWAY PANHANDLE 1/2 MILE	7' 0" X 2' 6" 12' 6" X 12' 6"	12.00		17.50 156.25		121	1.5	1.2		W8X18	21	20.7		794.4		18		
2	56	GREEN	GROOM 16 ALANREED 41 OKLAHOMA CITY 241	12' 0" X 4' 6"			54.00		121	1.4	1.4		W6X12	12.9	12.9		390.2		9		
2	61	GREEN	EXIT 98 Directional Arrow (Right)	5' 0" X 7' 6"			37.50		121	0.5	0.7		S4X7.7	15.0	15.2		302.9	7			
2	62	GREEN	EXIT 98 TEXAS 207 SOUTH CLAUDE Directional Arrow (Right)	7' 0" X 2' 6" 13' 0" X 10' 6"	12.00		17.50 136.50		121	1.9	0.8		W8X21	19.4	18.3		881.1		14		
2	63	GREEN	EXIT 96 TEXAS 207 CONWAY PANHANDLE 1 MILE	7' 0" X 2' 6" 12' 6" X 12' 0"	12.00		17.50 150.00		121	1.5	1.2		W8X18	20.5	20.2		776.2		16		
2	64	GREEN	EXIT 98 TEXAS 207 SOUTH CLAUDE 1/2 MILE	7' 0" X 2' 6" 13' 0" X 10' 0"	12.00		17.50 130.00		121	1.8	1.5		W8X18	18.8	18.5		715.0		14		
			PAGE TOTALS			0.00	1156.75	0.00					PAGE TOTALS				6104.2	21	107	0	0



◒ The "X" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.

Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.

The post lengths listed here are approximations, The corrected post lengths will be furnished by the Contractor after the stud posts are placed.

Tower heights shall be verified with the Engineer before fabrication.

⚹ This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.

SIGN TYPE

SIGN TYPE 1 3 0
- 1 — Wind Design Zone
- 3 — Series No.
- 0 — Aluminum/Fiberglass
  - 1 Aluminum
  - 2 Fiberglass
- 0 — No. of Posts

See sheet SMD(8W1)

SHEET 4 OF 17

SUMMARY OF LARGE SIGNS

SOLS

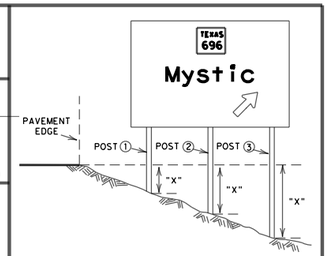
		REVISIONS	
DN.: TxDOT			
CK.: TxDOT	11-93		1-04
DW.: TxDOT	8-95		9-08
CK.: TxDOT	5-01		

CONT	SECT	JOB	HIGHWAY
0904	00	223	VARIOUS
DIST	COUNTY		SHEET NO.
AMA	POTTER		114

DATE: 9/20/2023 7:04:45 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03*ROADWAY\STD\sum108.dgn

SUMMARY OF LARGE SIGNS

SIGN PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION ◒			GALVANIZED STRUCTURAL STEEL					DRILLED SHAFT			
					DIRECT APPLY	⚹ ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post ①	post ②	post ③	SIZE	LINEAR FEET post ①	post ②	post ③	TOTAL WEIGHT LBS.	NON-REINF 12"ϕ	LINEAR FEET REINFORCED 24"ϕ	30"ϕ	36"ϕ
2	65	GREEN	EXIT 98	7' 0" X 2' 6"			17.50														
			TEXAS 207 SOUTH	13' 0" X 9' 6"	12.00		123.50		121	1.8	1.5		W8X18	18.3	18		697.0		14		
			CLAUDE																		
			1 MILE																		
3	70	GREEN	EXIT 105	8' 0" X 2' 6"			20.00														
			FARM TO MARKET ROUTE MARKER 2880	8' 6" X 7' 6"	16.00		63.75		121	2.0	2.0		W6X12	16.5	16.5		476.6		11		
			1/2 MILE																		
3	71	GREEN	EXIT 105	8' 0" X 2' 6"			20.00														
			FARM TO MARKET ROUTE MARKER 2880	8' 6" X 8' 0"	16.00		68.00		121	2.3	1.5		W6X15	17.3	16.5		542.6		11		
			Directional Arrow (Right)																		
3	72	GREEN	EXIT	5' 0" X 7' 6"			37.50		121	0.3	0.5		S4X7.7	14.8	15.0		299.9	7			
			105																		
			Directional Arrow (Right)																		
3	75	GREEN	EXIT	5' 0" X 7' 6"			37.50		121	0.5	0.6		S4X7.7	15.0	15.1		302.2	7			
			105																		
			Directional Arrow (Right)																		
3	76	GREEN	EXIT 105	8' 0" X 2' 6"			20.00														
			FARM TO MARKET ROUTE MARKER 2880	8' 6" X 8' 0"	16.00		68.00		121	3.9	4.2		W6X15	18.9	19.2		607.1		11		
			Directional Arrow (Right)																		
3	77	GREEN	EXIT 105	8' 0" X 2' 6"			20.00														
			FARM TO MARKET ROUTE MARKER 2880	8' 6" X 7' 6"	16.00		63.75		121	3.0	3.0		W6X12	17.5	17.5		500.6		11		
			1/2 MILE																		
3	78	GREEN	CONWAY 9	9' 6" X 4' 6"			42.75		121	2.2	1.8		W6X9	13.7	13.3		309.4		9		
			AMARILLO 37																		
			TUCUMCARI 147																		
3	79	GREEN	EXIT 109	8' 0" X 2' 6"			20.00														
			FARM TO MARKET ROUTE MARKER 294	8' 6" X 7' 6"	12.25		63.75		121	1.8	1.1		W6X12	16.3	15.6		463.4		11		
			1/2 MILE																		
3	80	GREEN	EXIT 109	8' 0" X 2' 6"			20.00														
			FARM TO MARKET ROUTE MARKER 294	8' 0" X 8' 0"	12.25		64.00		121	1.6	1.3		W6X12	16.6	16.3		475.4		11		
			Directional Arrow (Right)																		
			PAGE TOTALS			0.00	770.00	0.00						PAGE TOTALS			4674.2	14	89	0	0



◒ The "X" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.

Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.

The post lengths listed here are approximations, The corrected post lengths will be furnished by the Contractor after the stud posts are placed.

Tower heights shall be verified with the Engineer before fabrication.

⚹ This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.

SIGN TYPE

SIGN TYPE 1 3 0
- 1 — Wind Design Zone
- 3 — Series No.
- 0 — 0 Aluminum/Fiberglass, 1 Aluminum, 2 Fiberglass
- 0 — No. of Posts

See sheet SMD(8W1)

SUMMARY OF LARGE SIGNS

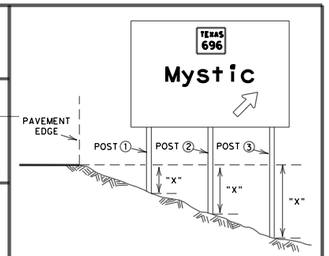
SOLS

		REVISIONS	
DN.: TxDOT	11-93	1-04	
CK.: TxDOT	8-95	9-08	
DW.: TxDOT	5-01		
CK.: TxDOT			

CONT	SECT	JOB	HIGHWAY
0904	00	223	VARIOUS
DIST	COUNTY		SHEET NO.
AMA	POTTER		115

SUMMARY OF LARGE SIGNS

SIGN PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION ◒			GALVANIZED STRUCTURAL STEEL					DRILLED SHAFT			
					DIRECT APPLY	⚹ ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post ①	post ②	post ③	SIZE	LINEAR FEET post ①	post ②	post ③	TOTAL WEIGHT LBS.	NON-REINF 12"ϕ	LINEAR FEET REINFORCED 24"ϕ	30"ϕ	36"ϕ
3	81	GREEN	EXIT 109 Directional Arrow (Right)	5' 0" X 7' 6"			37.50		121	1.3	1.3		S4X7.7	15.8	15.8		313.7	7			
3	84	GREEN	EXIT 110 BUSINESS OFF-INTERSTATE RT MR (LOOP) 40 WEST GROOM 1 MILE	8' 0" X 2' 6" 11' 0" X 12' 0"	 9.00		20.00 132.00		121	2.2	1.5		W8X18	21.2	20.5		794.2		14		
3	85	GREEN	EXIT 109 Directional Arrow (Right)	5' 0" X 7' 6"			37.50		121	0.6	0.8		S4X7.7	15.1	15.3		304.5	7			
3	86	GREEN	EXIT 109 FARM TO MARKET ROUTE MARKER 294 Directional Arrow (Right)	8' 0" X 2' 6" 8' 0" X 8' 0"	 12.25		20.00 64.00		121	3.3	3.3		W6X12	18.3	18.3		519.8		11		
3	87	GREEN	EXIT 110 BUSINESS OFF-INTERSTATE RT MR (LOOP) 40 WEST GROOM 1/2 MILE	8' 0" X 2' 6" 11' 0" X 12' 0"	 9.00		20.00 132.00		121	2.2	1.5		W8X18	21.2	20.5		794.2		14		
3	88	GREEN	EXIT 109 FARM TO MARKET ROUTE MARKER 294 1/2 MILE	8' 0" X 2' 6" 8' 6" X 7' 6"	 12.25		20.00 63.75		121	3.7	4.4		W6X12	18.2	18.9		525.8		11		
3	89	GREEN	EXIT 110 BUSINESS OFF-INTERSTATE RT MR (LOOP) 40 WEST GROOM Directional Arrow (Right)	8' 0" X 2' 6" 11' 0" X 13' 0"	 9.00		20.00 143.00		121	2.4	1.8		W8X18	22.4	21.8		839.2		14		
4	90	GREEN	EXIT 110 Directional Arrow (Right)	5' 0" X 7' 6"			37.50		121	0.2	0.3		S4X7.7	14.7	14.8		297.6	7			
4	91	GREEN	EXIT 110 Directional Arrow (Right)	5' 0" X 7' 6"			37.50		121	0.3	0.3		S4X7.7	14.8	14.8		298.3	7			
4	92	GREEN	EXIT 110 BUSINESS OFF-INTERSTATE RT MR (LOOP) 40 EAST Directional Arrow (Right)	8' 0" X 2' 6" 11' 0" X 10' 6"	 9.00		20.00 115.50		121	2.5	2.8		W8X18	20.0	20.3		769.0		14		
			PAGE TOTALS			0.00	920.25	0.00						PAGE TOTALS			5456.3	28	78	0	0



◒ The "X" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.

Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.

The post lengths listed here are approximations, The corrected post lengths will be furnished by the Contractor after the stud posts are placed.

Tower heights shall be verified with the Engineer before fabrication.

⚹ This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.

SIGN TYPE

SIGN TYPE 1 3 0
- 1 — Wind Design Zone
- 3 — Series No.
- 0 — 0 Aluminum/Fiberglass, 1 Aluminum, 2 Fiberglass
- 0 — No. of Posts

See sheet SMD(8W1)

SHEET 6 OF 17

SUMMARY OF LARGE SIGNS

SOLS

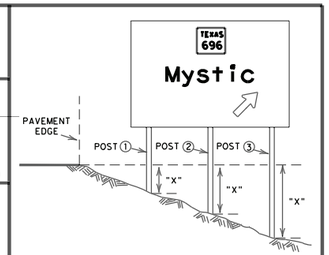
		REVISIONS	
DN.: TxDOT			
CK.: TxDOT	11-93	1-04	
DW.: TxDOT	8-95	9-08	
CK.: TxDOT	5-01		

CONT	SECT	JOB	HIGHWAY
0904	00	223	VARIOUS
DIST	COUNTY		SHEET NO.
AMA	POTTER		116

DATE: 9/20/2023 7:04:45 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03*ROADWAY\STD\sum108.dgn

SUMMARY OF LARGE SIGNS

SIGN PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION ◒			GALVANIZED STRUCTURAL STEEL					DRILLED SHAFT				
					DIRECT APPLY	⚹ ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post ①	post ②	post ③	SIZE	LINEAR FEET post ①	post ②	post ③	TOTAL WEIGHT LBS.	NON-REINF 12"ϕ	LINEAR FEET REINFORCED 24"ϕ	30"ϕ	36"ϕ
4	93	GREEN	EXIT 112 FARM TO MARKET ROUTE MARKER 295 1/2 MILE	8' 0" X 2' 6" 8' 6" X 7' 6"	 12.00		20.00 63.75		121	3.1	4.1		W6X12	17.6	18.6		515.0		11		
4	94	GREEN	EXIT 112 FARM TO MARKET ROUTE MARKER 295 Directional Arrow (Right)	8' 0" X 2' 6" 8' 0" X 8' 0"	 12.00		20.00 64.00		121	1.6	1.8		W6X12	16.6	16.8		481.4		11		
4	95	GREEN	EXIT 112 Directional Arrow (Right)	5' 0" X 7' 6"			37.50		121	0.3	0.5		S4X7.7	14.8	15.0		299.9	7			
4	96	GREEN	EXIT 110 BUSINESS OFF-INTERSTATE RT MR (LOOP) 40 EAST 1/2 MILE	8' 0" X 2' 6" 11' 0" X 9' 6"	 9.00		20.00 104.50		121	2.7	4.3		W8X18	19.2	20.8		763.6		14		
4	97	GREEN	EXIT 113 FARM TO MARKET ROUTE MARKER 2300 1/2 MILE	8' 0" X 2' 6" 8' 6" X 7' 6"	 16.00		20.00 63.75		121	3.0	3.7		W6X12	17.5	18.2		509.0		11		
4	98	GREEN	EXIT 112 Directional Arrow (Right)	5' 0" X 7' 6"			37.50		121	2.0	0.0		S4X7.7	16.5	14.5		309.1	7			
4	99	GREEN	EXIT 112 FARM TO MARKET ROUTE MARKER 295 Directional Arrow (Right)	8' 0" X 2' 6" 8' 0" X 8' 0"	 12.00		20.00 64.00		121	1.6	2.3		W6X12	16.6	17.3		487.4		11		
4	100	GREEN	EXIT 110 BUSINESS OFF-INTERSTATE RT MR (LOOP) 40 EAST 1 MILE	8' 0" X 2' 6" 11' 0" X 9' 6"	 9.00		20.00 104.50		121	2.7	4.3		W8X18	19.2	20.8		763.6		14		
4	101	GREEN	EXIT 113 FARM TO MARKET ROUTE MARKER 2300 Directional Arrow (Right)	8' 0" X 2' 6" 8' 6" X 8' 0"	 16.00		20.00 68.00		121	2.4	3.2		W6X15	17.4	18.2		569.6		11		
4	102	GREEN	EXIT 113 Directional Arrow (Right)	5' 0" X 7' 6"			37.50		121	0.8	0.9		S4X7.7	15.3	15.4		306.8	7			
			PAGE TOTALS			0.00	785.00	0.00						PAGE TOTALS			5005.4	21	83	0	0



◒ The "X" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.

Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.

The post lengths listed here are approximations, The corrected post lengths will be furnished by the Contractor after the stud posts are placed.

Tower heights shall be verified with the Engineer before fabrication.

⚹ This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.

SIGN TYPE

SIGN TYPE 1 3 0
- 1 — Wind Design Zone
- 3 — Series No.
- 0 — No. of Posts

0 Aluminum/Fiberglass
1 Aluminum
2 Fiberglass

See sheet SMD(8W1)

SHEET 7 OF 17

SUMMARY OF LARGE SIGNS

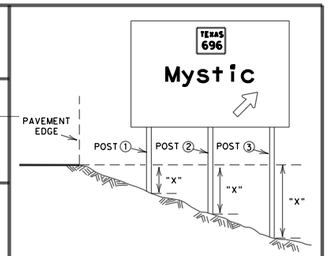
SOLS

		REVISIONS	
DN.: TxDOT		11-93	1-04
CK.: TxDOT		8-95	9-08
DW.: TxDOT		5-01	
CK.: TxDOT			

CONT	SECT	JOB	HIGHWAY
0904	00	223	VARIOUS
DIST	COUNTY		SHEET NO.
AMA	POTTER		117

SUMMARY OF LARGE SIGNS

SIGN PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION ◒			GALVANIZED STRUCTURAL STEEL					DRILLED SHAFT			
					DIRECT APPLY	⚹ ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post ①	post ②	post ③	SIZE	LINEAR FEET post ①	post ②	post ③	TOTAL WEIGHT LBS.	LINEAR FEET NON-REINF 12"ϕ	REINFORCED 24"ϕ	30"ϕ	36"ϕ
4	103	GREEN	EXIT 112	8' 0" X 2' 6"			20.00														
			FARM TO MARKET 295	8' 6" X 7' 6"	12.00		63.75		121	2.9	3.7		W6X12	17.4	18.2		507.8		11		
			ROUTE MARKET 1/2 MILE																		
4	104	GREEN	EXIT 114	8' 0" X 2' 6"			20.00														
			BUSINESS	11' 6" X 9' 6"			109.25		121	2.8	3.7		W8X18	19.3	20.2		754.6		14		
			OFF-INTERSTATE RT MR (LOOP) 40 WEST		9.00																
			1 MILE																		
4	105	GREEN	EXIT 114	8' 0" X 2' 6"			20.00														
			BUSINESS	11' 6" X 9' 6"			109.25		121	2.8	3.7		W8X18	19.3	20.2		754.6		14		
			OFF-INTERSTATE RT MR (LOOP) 40 WEST		9.00																
			1/2 MILE																		
4	106	GREEN	EXIT 113	5' 0" X 7' 6"			37.50														
			Directional Arrow (Right)						121	0.3	0.3		S4X7.7	14.8	14.8		298.3	7			
4	107	GREEN	EXIT 113	8' 0" X 2' 6"			20.00														
			FARM TO MARKET ROUTE MARKER 2300	8' 6" X 8' 0"	16.00		68.00		121	2.5	3.1		W6X15	17.5	18.1		569.6		11		
			Directional Arrow (Right)																		
4	108	GREEN	EXIT 114	8' 0" X 2' 6"			20.00														
			BUSINESS	11' 6" X 10' 6"			120.75		121	2.3	2.8		W8X18	19.8	20.3		765.4		14		
			OFF-INTERSTATE RT MR (LOOP) 40 WEST		9.00																
			Directional Arrow (Right)																		
4	109	GREEN	EXIT	5' 0" X 7' 6"			37.50														
			114						121	0.6	0.9		S4X7.7	15.1	15.4		305.3	7			
			Directional Arrow (Right)																		
4	110	GREEN	GRAY COUNTY LINE	5' 6" X 3' 0"			16.50		121	3.0	3.8		S3X5.7	13.0	13.8		210.6	7			
4	111	GREEN	CARSON COUNTY LINE	6' 0" X 3' 0"			18.00		121	1.1	1.3		S3X5.7	11.1	11.3		185.5	7			
4	112	GREEN	EXIT 113	8' 0" X 2' 6"			20.00														
			FARM TO MARKET ROUTE MARKER 2300	8' 6" X 7' 6"	16.00		63.75		121	1.1	1.3		W6X12	15.6	15.8		457.4		11		
			1/2 MILE																		
				PAGE TOTALS		0.00	764.25	0.00						PAGE TOTALS			4809.1	28	75	0	0



◒ The "X" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.

Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.

The post lengths listed here are approximations, The corrected post lengths will be furnished by the Contractor after the stud posts are placed.

Tower heights shall be verified with the Engineer before fabrication.

⚹ This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.

SIGN TYPE

SIGN TYPE 1 3 0
- Wind Design Zone
- Series No.
  - 0 Aluminum/Fiberglass
  - 1 Aluminum
  - 2 Fiberglass
- No. of Posts

See sheet SMD(8W1)

DATE: 9/20/2023 7:04:46 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03*ROADWAY\STD\sum108.dgn

SHEET 8 OF 17

SUMMARY OF LARGE SIGNS

SOLS

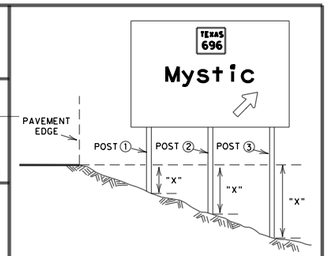
		REVISIONS	
DN.: TxDOT			
CK.: TxDOT	11-93	1-04	
DW.: TxDOT	8-95	9-08	
CK.: TxDOT	5-01		

CONT	SECT	JOB	HIGHWAY
0904	00	223	VARIOUS
DIST	COUNTY		SHEET NO.
AMA	POTTER		118

DATE: 9/20/2023 7:04:46 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03*ROADWAY\STD\sum108.dgn

SUMMARY OF LARGE SIGNS

SIGN PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION ◒			GALVANIZED STRUCTURAL STEEL					DRILLED SHAFT			
					DIRECT APPLY	⚹ ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post ①	post ②	post ③	SIZE	LINEAR FEET post ①	LINEAR FEET post ②	LINEAR FEET post ③	TOTAL WEIGHT LBS.	LINEAR FEET NON-REINF 12"ϕ	LINEAR FEET REINFORCED 24"ϕ	LINEAR FEET REINFORCED 30"ϕ	LINEAR FEET REINFORCED 36"ϕ
4	113	GREEN	EXIT 114 Directional Arrow (Right)	5' 0" X 7' 6"			37.50		121	0.4	0.6		S4X7.7	14.9	15.1		301.4	7			
4	114	GREEN	EXIT 114 BUSINESS OFF-INTERSTATE RT MR (LOOP) 40 WEST GROOM Directional Arrow (Right)	8' 0" X 2' 6" 11' 6" X 13' 0"	 9.00 		20.00 149.50		121	2.5	3.0		W8X18	22.5	23.0		844.6		14		
4	115	GREEN	EXIT 114 BUSINESS OFF-INTERSTATE RT MR (LOOP) 40 WEST GROOM 1/2 MILE	8' 0" X 2' 6" 11' 6" X 12' 0"	 9.00 		20.00 138.00		121	3.2	3.2		W8X18	22.2	22.2		842.8		14		
4	116	GREEN	ALANREED 20 MCLEAN 28 OKLAHOMA CITY 219	12' 0" X 4' 6"			54.00		121	1.7	1.8		W6X12	13.2	13.3		398.6		9		
4	117	GREEN	EXIT 114 BUSINESS OFF-INTERSTATE RT MR (LOOP) 40 WEST GROOM 1 MILE	8' 0" X 2' 6" 11' 6" X 12' 0"	 9.00 		20.00 138.00		121	3.2	3.2		W8X18	22.2	22.2		842.8		9		
4	118	GREEN	GROOM NEXT 3 EXITS	11' 6" X 4' 6"			51.75		121	3.5	4.0		W6X12	15.0	15.5		446.6		9		
4	121	GREEN	DONLEY COUNTY LINE	6' 0" X 3' 0"			18.00		121	2.9	2.3		S3X5.7	12.9	12.3		201.4	7			
4	122	GREEN	GRAY COUNTY LINE	5' 6" X 3' 0"			16.50		121	4.1	4.7		S3X5.7	14.1	14.7		222.0	7			
4	123	GREEN	EXIT 121 TEXAS 70 NORTH PAMPA 1 MILE	8' 0" X 2' 6" 12' 6" X 9' 6"	 9.00 		20.00 118.75		121	1.8	1.4		W8X18	18.3	17.9		695.2		14		
4	124	GREEN	EXIT 121 TEXAS 70 NORTH PAMPA 1/2 MILE	8' 0" X 2' 6" 12' 6" X 9' 6"	 9.00 		20.00 118.75		121	1.8	1.4		W8X18	18.3	17.9		695.2		14		
			PAGE TOTALS			0.00	940.75	0.00						PAGE TOTALS			5490.6	21	83	0	0



◒ The "X" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.

Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.

The post lengths listed here are approximations, The corrected post lengths will be furnished by the Contractor after the stud posts are placed.

Tower heights shall be verified with the Engineer before fabrication.

⚹ This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.

SIGN TYPE

SIGN TYPE 1 3 0
- 1 — Wind Design Zone
- 3 — Series No.
- 0 — 0 Aluminum/Fiberglass, 1 Aluminum, 2 Fiberglass
- 0 — No. of Posts

See sheet SMD(8W1)

SUMMARY OF LARGE SIGNS

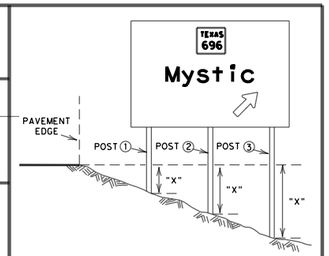
SOLS

		REVISIONS	
DN.: TxDOT	11-93	1-04	
CK.: TxDOT	8-95	9-08	
DW.: TxDOT	5-01		
CK.: TxDOT			

CONT	SECT	JOB	HIGHWAY
0904	00	223	VARIOUS
DIST	COUNTY		SHEET NO.
AMA	POTTER		119

SUMMARY OF LARGE SIGNS

SIGN PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION ◒			GALVANIZED STRUCTURAL STEEL					DRILLED SHAFT			
					DIRECT APPLY	⚹ ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post ①	post ②	post ③	SIZE	LINEAR FEET post ①	post ②	post ③	TOTAL WEIGHT LBS.	LINEAR FEET NON-REINF 12"ϕ	REINFORCED 24"ϕ	30"ϕ	36"ϕ
5	125	GREEN	EXIT 121 TEXAS 70 NORTH PAMPA Directional Arrow (Right)	8' 0" X 2' 6" 12' 6" X 10' 6"	9.00		20.00 131.25		121	2.5	1.3		W8X18	20.0	18.8		742.0		14		
5	126	GREEN	EXIT 121 Directional Arrow (Right)	5' 0" X 7' 6"			37.50		121	0.3	0.3		W6X9	14.8	14.8		332.8	7			
5	127	GREEN	GRAY COUNTY LINE	5' 6" X 3' 0"			16.50		121	2.9	3.0		S3X5.7	12.9	13.0		205.4	7			
5	128	GREEN	DONLEY COUNTY LINE	6' 0" X 3' 0"			18.00		121	2.3	2.7		S3X5.7	12.3	12.7		200.3	7			
5	131	GREEN	EXIT 121 Directional Arrow (Right)	5' 0" X 7' 6"			37.50		121	0.0	0.0		S4X7.7	14.5	14.5		293.7	7			
5	132	GREEN	EXIT 121 TEXAS 70 NORTH PAMPA Directional Arrow (Right)	8' 0" X 2' 6" 12' 6" X 10' 6"	9.00		20.00 131.25		121	3.8	4.3		W8X18	21.3	21.8		819.4		14		
5	133	GREEN	EXIT 121 TEXAS 70 NORTH PAMPA 1/2 MILE	8' 0" X 2' 6" 12' 6" X 9' 6"	9.00		20.00 118.75		121	3.8	4.1		W8X18	20.3	20.6		779.8		14		
5	134	GREEN	EXIT 121 TEXAS 70 NORTH PAMPA 1 MILE	8' 0" X 2' 6" 12' 6" X 9' 6"	9.00		20.00 118.75		121	3.8	4.1		W8X18	20.3	20.6		779.8		14		
5	135	GREEN	EXIT 124 TEXAS 70 SOUTH CLARENDON 1 MILE	8' 0" X 2' 6" 13' 6" X 9' 6"	9.00		20.00 128.25		121	3.5	3.7		W8X18	20.0	20.2		767.2		14		
5	136	GREEN	EXIT 124 TEXAS 70 SOUTH CLARENDON 1/2 MILE	8' 0" X 2' 6" 13' 6" X 9' 6"	9.00		20.00 128.25		121	3.5	3.7		W8X18	20.0	20.2		767.2		14		
			PAGE TOTALS			0.00	986.00	0.00						PAGE TOTALS			5687.6	28	84	0	0



◒ The "X" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.

Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.

The post lengths listed here are approximations, The corrected post lengths will be furnished by the Contractor after the stud posts are placed.

Tower heights shall be verified with the Engineer before fabrication.

⚹ This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.

SIGN TYPE

SIGN TYPE 1 3 0
- 1 — Wind Design Zone
- 3 — Series No.
- 0 — 0 Aluminum/Fiberglass, 1 Aluminum, 2 Fiberglass
- 0 — No. of Posts

See sheet SMD(8W1)

SHEET 10 OF 17

SUMMARY OF LARGE SIGNS

SOLS

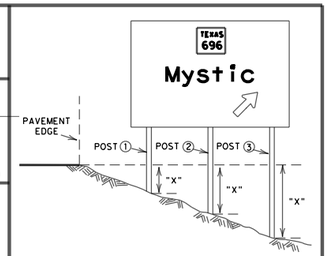
		REVISIONS	
DN.: TxDOT			
CK.: TxDOT	11-93	1-04	
DW.: TxDOT	8-95	9-08	
CK.: TxDOT	5-01		

CONT	SECT	JOB	HIGHWAY
0904	00	223	VARIOUS
DIST	COUNTY		SHEET NO.
AMA	POTTER		120

DATE: 9/20/2023 7:04:46 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03*ROADWAY\STD\sum108.dgn

SUMMARY OF LARGE SIGNS

SIGN PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION ◒			GALVANIZED STRUCTURAL STEEL					DRILLED SHAFT			
					DIRECT APPLY	⚹ ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post ①	post ②	post ③	SIZE	LINEAR FEET post ①	post ②	post ③	TOTAL WEIGHT LBS.	NON-REINF 12"ϕ	LINEAR FEET REINFORCED 24"ϕ	30"ϕ	36"ϕ
5	137	GREEN	EXIT 124 TEXAS 70 SOUTH CLARENDON Directional Arrow (Right)	8' 0" X 2' 6" 13' 6" X 10' 6"	9.00		20.00 141.75		121	4.4	6.1		W8X21	21.9	23.6		1044.9		16		
5	138	GREEN	EXIT 124 Directional Arrow (Right)	5' 0" X 7' 6"			37.50		121	0.3	0.3		S4X7.7	14.8	14.8		298.3	7			
5	139	GREEN	DONLEY COUNTY LINE	6' 0" X 3' 0"			18.00		121	4.1	4.1		S3X5.7	14.1	14.1		218.5	7			
5	142	GREEN	GRAY COUNTY LINE	5' 6" X 3' 0"			16.50		121	2.2	2.6		S3X5.7	12.2	12.6		199.2	7			
5	143	GREEN	EXIT 124 Directional Arrow (Right)	5' 0" X 7' 6"			37.50		121	0.2	0.3		S4X7.7	14.7	14.8		297.6	7			
5	144	GREEN	EXIT 124 TEXAS 70 SOUTH CLARENDON Directional Arrow (Right)	8' 0" X 2' 6" 13' 6" X 10' 6"	9.00		20.00 141.75		121	3.8	4.5		W8X21	21.3	22.0		998.7		16		
5	145	GREEN	EXIT 124 TEXAS 70 SOUTH CLARENDON 1/2 MILE	8' 0" X 2' 6" 13' 6" X 9' 6"	9.00		20.00 128.25		121	2.4	3.9		W8X18	18.9	20.4		751.0		16		
5	146	GREEN	EXIT 124 TEXAS 70 SOUTH CLARENDON 1 MILE	8' 0" X 2' 6" 13' 6" X 9' 6"	9.00		20.00 128.25		121	2.4	3.9		W8X18	18.9	20.4		751.0		14		
5	147	GREEN	GRAY COUNTY LINE	5' 6" X 3' 0"			16.50		121	1.8	-0.8		S3X5.7	11.8	9.3		178.1	7			
5	148	GREEN	DONLEY COUNTY LINE	6' 0" X 3' 0"			18.00		121	1.7	2.7		S3X5.7	11.7	12.7		196.9	7			
			PAGE TOTALS			0.00	764.00	0.00						PAGE TOTALS			4934.2	42	62	0	0



◒ The "X" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.

Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.

The post lengths listed here are approximations, The corrected post lengths will be furnished by the Contractor after the stud posts are placed.

Tower heights shall be verified with the Engineer before fabrication.

⚹ This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.

SIGN TYPE

SIGN TYPE 1 3 0
- 1 — Wind Design Zone
- 3 — Series No.
- 0 — 0 Aluminum/Fiberglass, 1 Aluminum, 2 Fiberglass
- 0 — No. of Posts

See sheet SMD(8W1)

SHEET 11 OF 17

SUMMARY OF LARGE SIGNS

SOLS

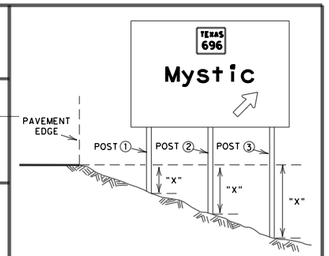
		REVISIONS	
DN.: TxDOT		11-93	1-04
CK.: TxDOT		8-95	9-08
DW.: TxDOT		5-01	
CK.: TxDOT			

CONT	SECT	JOB	HIGHWAY
0904	00	223	VARIOUS
DIST	COUNTY		SHEET NO.
AMA	POTTER		121

DATE: 9/20/2023 7:04:47 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03*ROADWAY\STD\sum108.dgn

SUMMARY OF LARGE SIGNS

SIGN PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION ◒			GALVANIZED STRUCTURAL STEEL					DRILLED SHAFT			
					DIRECT APPLY	⚹ ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post ①	post ②	post ③	SIZE	LINEAR FEET post ①	post ②	post ③	TOTAL WEIGHT LBS.	LINEAR FEET NON-REINF 12"ϕ	REINFORCED 24"ϕ	30"ϕ	36"ϕ
5	149	GREEN	EXIT 128	8' 0" X 2' 6"			20.00														
			FARM TO MARKET ROUTE MARKER 2477	8' 6" X 7' 6"	15.00		63.75		121	2.7	3.2		W6X12	17.2	17.7		499.4		11		
			1/2 MILE																		
5	150	GREEN	DONLEY COUNTY LINE	6' 0" X 3' 0"			18.00		121	2.0	2.4		S3X5.7	12.0	12.4		196.9	7			
5	151	GREEN	GRAY COUNTY LINE	5' 6" X 3' 0"			18.00		121	1.5	1.7		S3X5.7	11.5	11.7		190.0	7			
5	152	GREEN	EXIT 128	8' 0" X 2' 6"			20.00		121	3.4	4.1		W6X12	18.4	19.1		530.6		11		
			FARM TO MARKET ROUTE MARKER 2477	8' 0" X 8' 0"	15.00		64.00														
			Directional Arrow (Right)																		
5	153	GREEN	EXIT	5' 0" X 7' 6"			37.50		121	0.2	0.3		S4X7.7	14.7	14.8		297.6	7			
			128																		
			Directional Arrow (Right)																		
5	154		HANDICAPPED	2' 0" X 2' 0"		4.00															
			TORNADO SHELTER	2' 6" X 1' 6"		3.75															
		BLUE	REST AREA	10' 0" X 5' 0"			50.00		121	1.7	1.0		W6X15	12.7	12.0		406.1		9		
			1 MILE																		
			VENDING MACHINES	10' 0" X 1' 6"			15.00														
5	157	GREEN	EXIT	5' 0" X 7' 6"			37.50		121	0.2	0.3		S3X5.7	14.7	14.8		226.0	7			
			128																		
			Directional Arrow (Right)																		
5	158	GREEN	EXIT 128	8' 0" X 2' 6"			20.00														
			FARM TO MARKET ROUTE MARKER 2477	8' 0" X 8' 0"	15.00		64.00		121	1.0	1.4		W6X12	16.0	16.4		469.4		11		
			Directional Arrow (Right)																		
5	159	BLUE	REST AREA	6' 6" X 6' 6"			42.25		121	0.0	2.0		W6X9	13.5	15.5		327.4		9		
			Directional Arrow (Right)																		
5	160	GREEN	EXIT 128	8' 0" X 2' 6"			20.00														
			FARM TO MARKET ROUTE MARKER 2477	8' 6" X 7' 6"	15.00		63.75		121	1.2	1.6		W6X12	15.7	16.1		462.2		11		
			1/2 MILE																		
				PAGE TOTALS		7.75	553.75	0.00						PAGE TOTALS			3605.6	28	62	0	0



◒ The "X" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.

Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.

The post lengths listed here are approximations, The corrected post lengths will be furnished by the Contractor after the stud posts are placed.

Tower heights shall be verified with the Engineer before fabrication.

⚹ This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.

SIGN TYPE

SIGN TYPE 1 3 0
- 1 — Wind Design Zone
- 3 — Series No.
- 0 — Aluminum/Fiberglass
- 1 — Aluminum
- 2 — Fiberglass
- 0 — No. of Posts

See sheet SMD(8W1)

DATE: 9/20/2023 7:04:47 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03*ROADWAY\STD\sum108.dgn

SUMMARY OF LARGE SIGNS

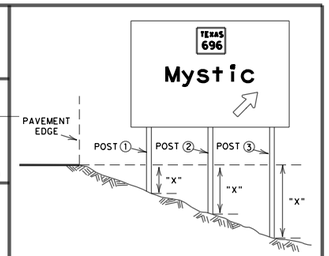
SOLS

		REVISIONS	
DN.: TxDOT			
CK.: TxDOT	11-93	1-04	
DW.: TxDOT	8-95	9-08	
CK.: TxDOT	5-01		

CONT	SECT	JOB	HIGHWAY
0904	00	223	VARIOUS
DIST	COUNTY		SHEET NO.
AMA	POTTER		122

SUMMARY OF LARGE SIGNS

SIGN PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION ◒			GALVANIZED STRUCTURAL STEEL					DRILLED SHAFT			
					DIRECT APPLY	⚹ ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post ①	post ②	post ③	SIZE	LINEAR FEET post ①	post ②	post ③	TOTAL WEIGHT LBS.	NON-REINF 12"ϕ	LINEAR FEET REINFORCED 24"ϕ	30"ϕ	36"ϕ
6	161	GREEN	GRAY COUNTY LINE	5' 6" X 3' 0"			16.00		121	1.8	2.3		S3X5.7	11.8	12.3		195.2	7			
6	162	GREEN	DONLEY COUNTY LINE	6' 0" X 3' 0"			18.00		121	1.9	1.9		S3X5.7	11.9	11.9		193.5	7			
6	163		CAMPING	2' 0" X 2' 0"		4.00															
			RV SANITARY STATION	2' 0" X 2' 0"		4.00															
			PICNIC AREA	2' 0" X 2' 0"		4.00															
		BROWN	LAKE MCCLELLAN RECREATION AREA	16' 6" X 7' 0"			115.50		121	1.4	1.3		W8X15	15.4	15.3		496.1		14		
			EXIT 128																		
6	164	BLUE	REST AREA	6' 6" X 6' 6"			42.25		121	0.3	0.3		S4X7.7	13.8	13.8		282.9		9		
			Directional Arrow (Right)																		
6	165	GREEN	EXIT 132	8' 0" X 2' 6"			20.00														
			JOHNSON	11' 6" X 8' 0"			92.00		121	0.7	1.3		W8X18	15.7	16.3		619.6		14		
			RANCH RD																		
			1/2 MILE																		
6	166	GREEN	EXIT 132	8' 0" X 2' 6"			20.00														
			JOHNSON	11' 6" X 9' 0"			103.50		121	4.0	6.3		W8X18	20.0	22.3		805.0		14		
			RANCH RD																		
			Directional Arrow (Right)																		
6	167	GREEN	EXIT	5' 0" X 7' 6"			37.50		121	0.4	0.4		S4X7.7	14.9	14.9		299.9	7			
			132																		
			Directional Arrow (Right)																		
6	168	GREEN	EXIT	5' 0" X 7' 6"			37.50		121	0.4	0.4		S4X7.7	14.9	14.9		299.9	7			
			132																		
			Directional Arrow (Right)																		
6	169	GREEN	EXIT 132	8' 0" X 2' 6"			20.00														
			JOHNSON	11' 6" X 9' 0"			103.50		121	2.0	2.5		W8X18	18.0	18.5		700.6		14		
			RANCH RD																		
			Directional Arrow (Right)																		
6	170		HANDICAPPED	2' 6" X 2' 6"		6.25															
			TORNADO SHELTER	2' 6" X 1' 6"		3.75															
		BLUE	REST AREA	9' 0" X 5' 0"			45.00		121	1.4	1.4		W6X12	12.4	12.4		378.2		9		
			1 MILE																		
			VENDING MACHINES	10' 0" X 1' 6"			15.00														
					PAGE TOTALS	22.00	685.75	0.00						PAGE TOTALS			4270.9	28	74	0	0



◒ The "X" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.

Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.

The post lengths listed here are approximations, The corrected post lengths will be furnished by the Contractor after the stud posts are placed.

Tower heights shall be verified with the Engineer before fabrication.

⚹ This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.

SIGN TYPE

SIGN TYPE 1 3 0
- 1 — Wind Design Zone
- 3 — Series No.
- 0 — 0 Aluminum/Fiberglass, 1 Aluminum, 2 Fiberglass
- 0 — No. of Posts

See sheet SMD(8W1)

SHEET 13 OF 17

SUMMARY OF LARGE SIGNS

SOLS

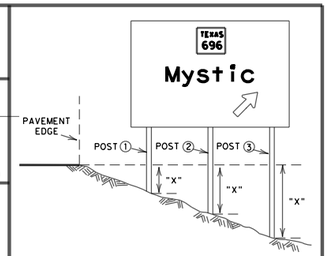
		REVISIONS	
DN.: TxDOT			
CK.: TxDOT	11-93	1-04	
DW.: TxDOT	8-95	9-08	
CK.: TxDOT	5-01		

CONT	SECT	JOB	HIGHWAY
0904	00	223	VARIOUS
DIST	COUNTY		SHEET NO.
AMA	POTTER		123

DATE: 9/20/2023 7:04:47 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03*ROADWAY\STD\sum108.dgn

SUMMARY OF LARGE SIGNS

SIGN PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION ◒			GALVANIZED STRUCTURAL STEEL					DRILLED SHAFT			
					DIRECT APPLY	⚹ ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post ①	post ②	post ③	SIZE	LINEAR FEET post ①	post ②	post ③	TOTAL WEIGHT LBS.	NON-REINF 12"ϕ	LINEAR FEET REINFORCED 24"ϕ	30"ϕ	36"ϕ
6	171	GREEN	EXIT 132	8' 0" X 2' 6"			20.00														
			JOHNSON	11' 6" X 8' 0"			92.00		121	2.4	3.0		W8X18	17.4	18.0		680.8		14		
			RANCH RD																		
			1/2 MILE																		
6	172	GREEN	EXIT 135	8' 0" X 2' 6"			20.00														
			LOOP 271	12' 6" X 11' 6"	10.00		143.75		121	0.6	1.3		W8X21	19.1	19.8		906.3		16		
			TO																		
			FARM TO MARKET ROUTE MARKER 291		10.25																
			ALANREED																		
			1/2 MILE																		
6	173	GREEN	GROOM 22	8' 0" X 4' 6"			36.00		121	1.9	1.4		W6X9	13.4	12.9		303.1		9		
			CONWAY 36																		
			AMARILLO 64																		
6	174	GREEN	EXIT 135	8' 0" X 2' 6"			20.00														
			LOOP 271	12' 6" X 12' 6"	10.00		156.25		121	1.3	0.9		W8X21	20.8	20.4		954.6		16		
			TO																		
			FARM TO MARKET ROUTE MARKER 291		10.25																
			ALANREED																		
			Directional Arrow (Right)																		
6	175	GREEN	EXIT	5' 0" X 7' 6"			37.50		121	0.3	0.5		S4X7.7	14.8	15.0		299.9	7			
			135																		
			Directional Arrow (Right)																		
6	180	GREEN	EXIT	5' 0" X 7' 6"			37.50		121	0.0	0.1		S4X7.7	14.5	14.6		294.5	7			
			135																		
			Directional Arrow (Right)																		
6	181	GREEN	EXIT 135	8' 0" X 2' 6"			20.00														
			LOOP 271	12' 6" X 12' 6"	10.00		156.25		121	2.0	3.0		W8X21	21.5	22.5		1013.4		16		
			TO																		
			FARM TO MARKET ROUTE MARKER 291		10.25																
			ALANREED																		
			Directional Arrow (Right)																		
6	182	GREEN	MCLEAN 6	12' 0" X 4' 6"			54.00		121	2.7	3.6		W6X12	14.2	15.1		432.2		11		
			SHAMROCK 27																		
			OKLAHOMA 197																		
6	183	GREEN	EXIT 135	8' 0" X 2' 6"			20.00														
			LOOP 271	12' 6" X 11' 6"	10.00		143.75		121	2.0	3.0		W8X21	20.5	21.5		971.4		16		
			TO																		
			FARM TO MARKET ROUTE MARKER 291		10.25																
			ALANREED																		
			1/2 MILE																		
6	186	GREEN	MCLEAN	11' 6" X 4' 6"			51.75		121	1.9	2.1		W6X12	13.4	13.6		404.6		10		
			NEXT 2 EXITS																		
PAGE TOTALS						0.00	1008.75	0.00						PAGE TOTALS			6260.8	14	108	0	0



◒ The "X" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.

Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.

The post lengths listed here are approximations, The corrected post lengths will be furnished by the Contractor after the stud posts are placed.

Tower heights shall be verified with the Engineer before fabrication.

⚹ This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.

SIGN TYPE

SIGN TYPE 1 3 0
- 1 — Wind Design Zone
- 3 — Series No.
- 0 — 0 Aluminum/Fiberglass, 1 Aluminum, 2 Fiberglass
- 0 — No. of Posts

See sheet SMD(8W1)

SHEET 14 OF 17

SUMMARY OF LARGE SIGNS

SOLS

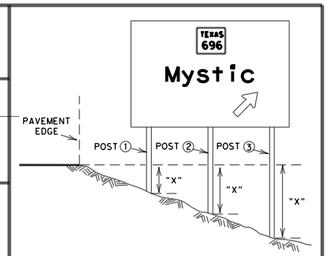
		REVISIONS	
DN.: TxDOT	11-93	1-04	
CK.: TxDOT	8-95	9-08	
DW.: TxDOT	5-01		
CK.: TxDOT			

CONT	SECT	JOB	HIGHWAY
0904	00	223	VARIOUS
DIST	COUNTY		SHEET NO.
AMA	POTTER		124

DATE: 9/20/2023 7:04:47 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03*ROADWAY\STD\sum108.dgn

SUMMARY OF LARGE SIGNS

SIGN PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION ◒			GALVANIZED STRUCTURAL STEEL					DRILLED SHAFT			
					DIRECT APPLY	✳ ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post ①	post ②	post ③	SIZE	LINEAR FEET post ①	post ②	post ③	TOTAL WEIGHT LBS.	NON-REINF 12"ϕ	LINEAR FEET REINFORCED 24"ϕ	30"ϕ	36"ϕ
6	187	GREEN	EXIT 141	8' 0" X 2' 6"			20.00														
			BUSINESS	11' 0" X 12' 0"			132.00		121	2.0	3.0		W8X18	21.0	22.0		817.6		14		
			OFF-INTERSTATE RT MR (LOOP) 40 WEST		9.00																
			MCLEAN																		
			1 MILE																		
7	188	GREEN	EXIT 141	8' 0" X 2' 6"			20.00														
			BUSINESS	11' 0" X 12' 0"			132.00		121	2.0	3.0		W8X18	21.0	22.0		817.6		14		
			IOFF-INTERSTATE RT MR (LOOP) 40 WEST		9.00																
			MCLEAN																		
			1/2 MILE																		
7	189	GREEN	EXIT 141	8' 0" X 2' 6"			20.00														
			BUSINESS	11' 0" X 13' 0"			143.00		121	3.0	1.8		W8X18	23.0	21.8		850.0		14		
			OFF-INTERSTATE RT MR (LOOP) 40 WEST		9.00																
			MCLEAN																		
			Directional Arrow (Right)																		
7	190	GREEN	ALANREED 5	8' 0" X 4' 6"			36.00		121	0.6	0.2		W6X9	12.1	11.7		280.6	7			
			GROOM 29																		
			AMARILLO 71																		
7	191	GREEN	EXIT	5' 0" X 7' 6"			37.50		121	0.0	0.0		S4X7.7	14.5	14.5		293.7	7			
			141																		
			Directional Arrow (Right)																		
7	192	GREEN	EXIT 142	8' 0" X 2' 6"			20.00														
			TEXAS 273	13' 6" X 9' 0"	12.00		121.50		121	0.8	3.5		W8X18	16.8	19.5		697.0		14		
			TO																		
			FARM TO MARKET ROUTE MARKER 3143		14.25																
			1 MILE																		
7	195	GREEN	EXIT 142	8' 0" X 2' 6"			20.00														
			TEXAS 273	13' 6" X 9' 0"	12.00		121.50		121	0.8	3.5		W8X18	16.8	19.5		697.0		14		
			TO																		
			FARM TO MARKET ROUTE MARKER 3143		14.25																
			1/2 MILE																		
7	196	GREEN	EXIT 142	8' 0" X 2' 6"			20.00														
			TEXAS 273	13' 6" X 10' 0"	12		135.00		121	0.8	3.5		W8X18	17.8	20.5		733.0		14		
			TO																		
			FARM TO MARKET ROUTE MARKER 3143		14.25																
			Directional Arrow (Right)																		
7	197	GREEN	EXIT	5' 0" X 7' 6"			37.50		121	0.3	0.3		S4X7.7	14.8	14.8		298.3	7			
			142																		
			Directional Arrow (Right)																		
7	202	GREEN	EXIT 142	8' 0" X 2' 6"			20.00														
			TEXAS 273	13' 6" X 10' 0"	12.00		135.00		121	1.8	1.5		W8X18	18.8	18.5		715.0		14		
			TO																		
			FARM TO MARKET ROUTE MARKER 3143		14.25																
			Directional Arrow (Right)																		
			PAGE TOTALS			0.00	1171.00	0.00						PAGE TOTALS			6199.8	21	98	0	0



◒ The "X" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.

Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.

The post lengths listed here are approximations, The corrected post lengths will be furnished by the Contractor after the stud posts are placed.

Tower heights shall be verified with the Engineer before fabrication.

✳ This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.

SIGN TYPE

SIGN TYPE 1 3 0
- 1 — Wind Design Zone
- 3 — Series No.
- 0 — No. of Posts

Series No.: 0 Aluminum/Fiberglass, 1 Aluminum, 2 Fiberglass

See sheet SMD(8W1)

SHEET 15 OF 17

SUMMARY OF LARGE SIGNS

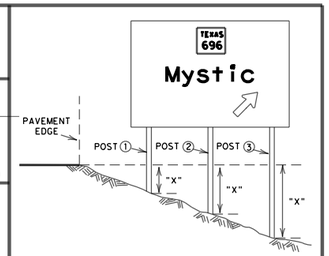
SOLS

		REVISIONS	
DN.: TxDOT	11-93	1-04	
CK.: TxDOT	8-95	9-08	
DW.: TxDOT	5-01		
CK.: TxDOT			

CONT	SECT	JOB	HIGHWAY
0904	00	223	VARIOUS
DIST	COUNTY		SHEET NO.
AMA	POTTER		125

SUMMARY OF LARGE SIGNS

SIGN PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION ◒			GALVANIZED STRUCTURAL STEEL					DRILLED SHAFT			
					DIRECT APPLY	⚹ ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post ①	post ②	post ③	SIZE	LINEAR FEET post ①	post ②	post ③	TOTAL WEIGHT LBS.	LINEAR FEET NON-REINF 12"ϕ	REINFORCED 24"ϕ	30"ϕ	36"ϕ
7	203	GREEN	EXIT 142	8' 0" X 2' 6"			20.00														
			TEXAS 273	13' 6" X 9' 0"	12.00		121.50		121	5.0	3.0		W8X18	21.0	19.0		763.6		13		
			TO																		
			FARM TO MARKET ROUTE MARKER 3143		14.25																
			1/2 MILE																		
7	204	GREEN	EXIT 142	8' 0" X 2' 6"			20.00														
			TEXAS 273	13' 6" X 9' 0"	12.00		121.50		121	5.0	3.0		W8X18	21.0	19.0		763.6		13		
			TO																		
			FARM TO MARKET ROUTE MARKER 3143		14.25																
			1 MILE																		
7	205	GREEN	EXIT	5' 0" X 7' 6"			37.50		121	0.0	0.0		S4X7.7	14.5	14.5		293.7	7			
			143																		
			Directional Arrow (Right)																		
7	206	GREEN	EXIT 143	8' 0" X 2' 6"			20.00														
			BUSINESS	11' 6" X 13' 0"			149.50		121	1.7	2.7		W8X18	21.7	22.7		842.8		23		
			OFF-INTERSTATE RT MR (LOOP) 40 WEST		9.00																
			MCLEAN																		
			Directional Arrow (Right)																		
7	207	GREEN	SHAMROCK 19	12' 0" X 4' 6"			54.00		121	3.3	4.3		W6X12	14.8	15.8		447.8		10		
			ERICK 45																		
			OKLAHOMA CITY 189																		
7	208	GREEN	EXIT 143	8' 0" X 2' 6"			20.00														
			BUSINESS	11' 6" X 12' 0"			138.00		121	1.7	2.7		W8X18	21.2	22.2		824.8		13		
			OFF-INTERSTATE RT MR (LOOP) 40 WEST		9.00																
			MCLEAN																		
			1/2 MILE																		
7	209	GREEN	EXIT 143	8' 0" X 2' 6"			20.00														
			INTERSTATE ROUTE MARKER 40 WEST	11' 6" X 12' 0"	9.00		138.00		121	1.7	2.7		W8X18	20.7	21.7		806.8		13		
			MCLEAN																		
			1 MILE																		
7	210	GREEN	MCLEAN	11' 6" X 4' 6"			51.75		121	0.9	1.6		W6X12	12.4	13.1		386.6		11		
			NEXT 2 EXITS																		
7	211	GREEN	EXIT 146	8' 0" X 2' 6"			20.00														
			COUNTY LINE RD	10' 0" X 8' 0"			80.00		121	1.7	2.7		W6X15	16.7	17.7		551.6		12		
			1/2 MILE																		
7	212	GREEN	EXIT 146	8' 0" X 2' 6"			20.00														
			COUNTY LINE RD	10' 0" X 9' 0"			90.00		121	1.2	1.3		W6X15	17.2	17.3		553.1		12		
			Directional Arrow (Right)																		
				PAGE TOTALS		0.00	1121.75	0.00									6234.4	7	120	0	0



◒ The "X" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.

Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.

The post lengths listed here are approximations, The corrected post lengths will be furnished by the Contractor after the stud posts are placed.

Tower heights shall be verified with the Engineer before fabrication.

⚹ This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.

SIGN TYPE

SIGN TYPE 1 3 0
- 1 — Wind Design Zone
- 3 — Series No.
- 0 — 0 Aluminum/Fiberglass, 1 Aluminum, 2 Fiberglass
- 0 — No. of Posts

See sheet SMD(8W1)

SHEET 16 OF 17

SUMMARY OF LARGE SIGNS

SOLS

		REVISIONS	
DN.: TxDOT	CK.: TxDOT	11-93	1-04
DW.: TxDOT	CK.: TxDOT	8-95	9-08
		5-01	

CONT	SECT	JOB	HIGHWAY
0904	00	223	VARIOUS
DIST	COUNTY		SHEET NO.
AMA	POTTER		126

DATE: 9/20/2023 7:04:48 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03*ROADWAY\STD\suml08.dgn

SUMMARY OF LARGE SIGNS

SIGN PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION ◒			GALVANIZED STRUCTURAL STEEL					DRILLED SHAFT			
														LINEAR FEET				NON-REINF	LINEAR FEET REINFORCED		
					DIRECT APPLY	⚹ ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post ①	post ②	post ③	SIZE	post ①	post ②	post ③	TOTAL WEIGHT LBS.	12"ϕ	24"ϕ	30"ϕ	36"ϕ
7	213	GREEN	EXIT 146 Directional Arrow (Right)	5' 0" X 7' 6"			37.50		121	1.1	1.3		S4X7.7	15.6	15.8		312.2	7			
7	214	GREEN	WHEELER COUNTY LINE	7' 0" X 3' 0"			21.00		121	1.1	1.3		S4X7.7	11.1	11.3		242.9	7			
7	217	GREEN	GRAY COUNTY LINE	5' 6" X 3' 0"			16.50		121	1.1	1.3		S3X5.7	11.1	11.3		185.5	7			
				PAGE TOTALS		0.00	75.00	0.00							PAGE TOTALS		740.6	21	0	0	0

◒ The "X" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.

Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.

The post lengths listed here are approximations, The corrected post lengths will be furnished by the Contractor after the stud posts are placed.

Tower heights shall be verified with the Engineer before fabrication.

⚹ This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.

SIGN TYPE

SIGN TYPE 1 3 0
- 1 — Wind Design Zone
- 3 — No. of Posts
- 0 — Series No.
  - 0 Aluminum/Fiberglass
  - 1 Aluminum
  - 2 Fiberglass

See sheet SMD(8W1)

SHEET 17 OF 17

SUMMARY OF LARGE SIGNS

SOLS

DN.:-TxDOT	REVISIONS	
CK.:-TxDOT	11-93	1-04
DW.:-TxDOT	8-95	9-08
CK.:-TxDOT	5-01	

CONT	SECT	JOB	HIGHWAY
0904	00	223	VARIOUS

DIST	COUNTY	SHEET NO.
AMA	POTTER	127

DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE:
FILE:

SIGN SUPPORT DESCRIPTIVE CODES

(Descriptive Codes correspond to project estimate and quantities sheets)

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

Post Type

FRP = Fiberglass Reinforced Plastic Pipe (see SMD(FRP))
TWT = Thin-Walled Tubing (see SMD(TWT))
10BWG = 10 BWG 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)

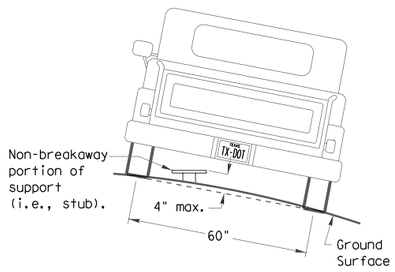
Anchor Type

UA = Universal Anchor - Concreted (see SMD(FRP) and (TWT))
UB = Universal Anchor - Bolted down (see SMD(FRP) and (TWT))
WS = Wedge Anchor Steel - (see SMD(TWT))
WP = Wedge Anchor Plastic (see SMD(TWT))
SA = Slipbase - Concreted (see SMD(SLIP-1) to (SLIP-3))
SB = Slipbase - Bolted Down (see SMD(SLIP-1) to (SLIP-3))

Sign Mounting Designation

P = Prefab. "Plain" (see SMD(SLIP-1) to (SLIP-3), (TWT), (FRP))
T = Prefab. "T" (see SMD(SLIP-1) to (SLIP-3), (TWT))
U = Prefab. "U" (see SMD(SLIP-1) to (SLIP-3))
IF REQUIRED
1EXT or 2EXT = Number of Extensions (see SMD(SLIP-1) to (SLIP-3), (TWT))
BM = Extruded Wind Beam (see SMD(SLIP-1) to (SLIP-3))
WC = 1.12 #/ft Wing Channel (see SMD(SLIP-1) to (SLIP-3))
EXAL = Extruded Aluminum Sign Panels (see SMD(SLIP-1))

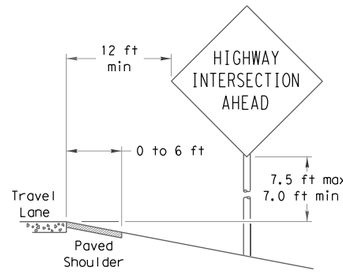
REQUIRED CLEARANCE FOR BREAKAWAY SUPPORT



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 paths).

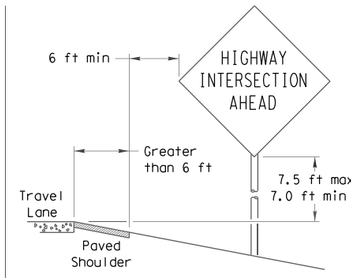
SIGN LOCATION

PAVED SHOULDERS



LESS THAN 6 FT. WIDE

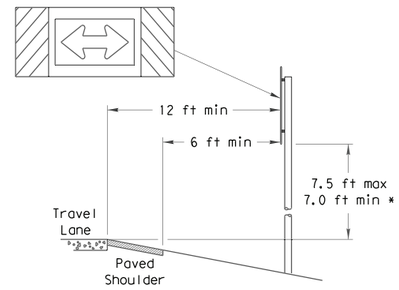
When the shoulder is 6 ft. or less in width, the sign must be placed at least 12 ft. from the edge of the travel lane.



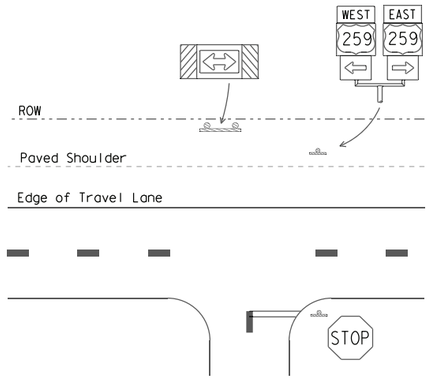
GREATER THAN 6 FT. WIDE

When the shoulder is greater than 6 ft in width, the sign must be placed at least 6 ft. from the edge of the shoulder.

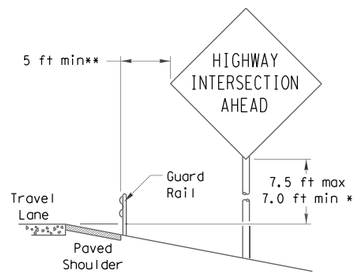
T-INTERSECTION



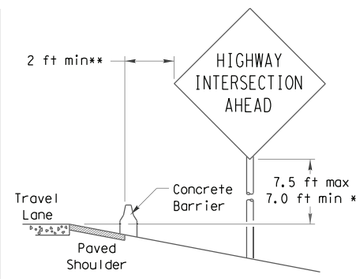
When this sign is needed at the end of a two-lane, two way roadway, the right edge of the sign should be in line with the centerline of the roadway. Place as close to ROW as practical.



BEHIND BARRIER



BEHIND GUARDRAIL

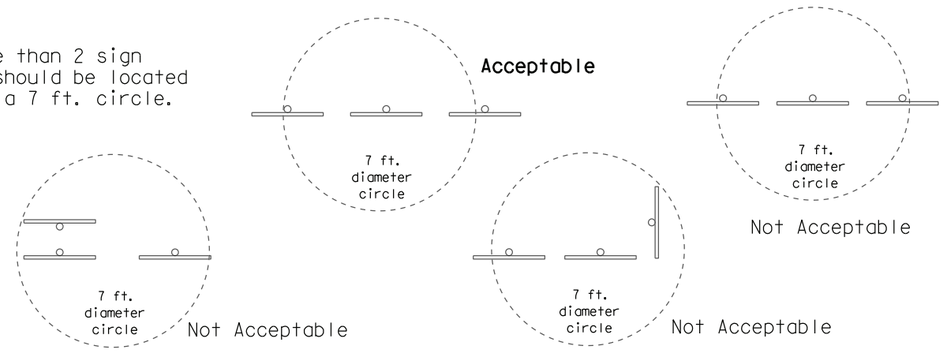


BEHIND CONCRETE BARRIER

**BEHIND CONCRETE BARRIER

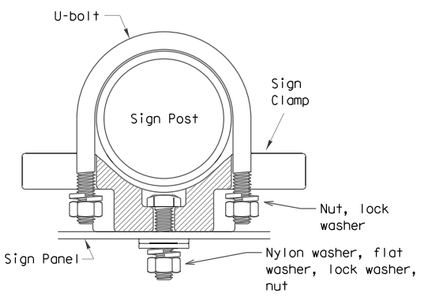
**Sign clearance based on distance required for proper guard rail or concrete barrier performance.

No more than 2 sign posts should be located within a 7 ft. circle.

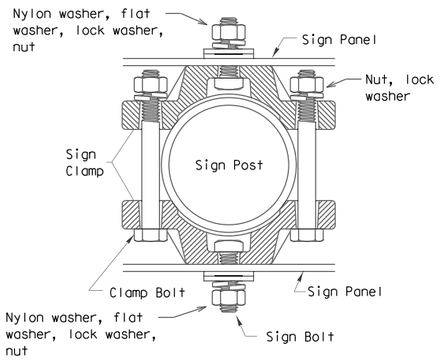


TYPICAL SIGN ATTACHMENT DETAIL

Single Signs



Back-to-Back Signs



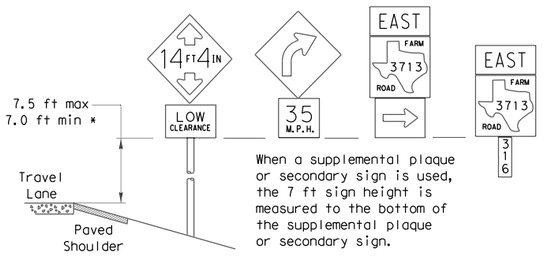
Bolts used to mount sign panels to the clamp are 5/16-18 UNC galvanized square head with nut, nylon washer, flat washer and lock washer. The bolt length is 1 inch for aluminum.

When two sign clamps are used to mount signs back-to-back, use a 5/16-18 UNC galvanized hex head per ASTM A307 with nut and helical-spring lock washer. The approximate bolt lengths for various post sizes and sign clamp types are given in the table at right. The bolt length may need to be adjusted depending upon field conditions.

Sign clamps may be either the specific size clamp or the universal clamp.

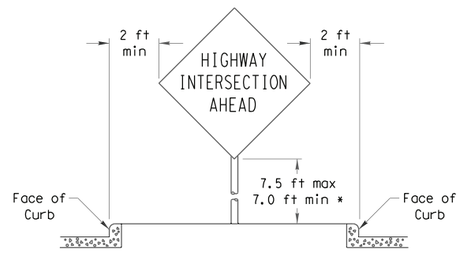
Pipe Diameter	Approximate Bolt Length	
	Specific Clamp	Universal Clamp
2" nominal	3"	3 or 3 1/2"
2 1/2" nominal	3 or 3 1/2"	3 1/2 or 4"
3" nominal	3 1/2 or 4"	4 1/2"

SIGNS WITH PLAQUES



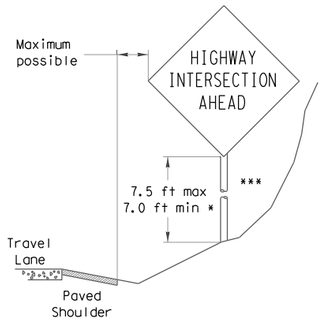
When a supplemental plaque or secondary sign is used, the 7 ft sign height is measured to the bottom of the supplemental plaque or secondary sign.

CURB & GUTTER OR RAISED ISLAND



RESTRICTED RIGHT-OF-WAY

(When 6 ft min. is not possible.)



Right-of-way restrictions may be created by rocks, water, vegetation, forest, buildings, a narrow island, or other factors.

In situations where a lateral restriction prevents 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 slope.

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

(1) a minimum of 7 to a maximum of 7.5 feet above the edge of the travel lane or

(2) 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 backslope.

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/publications/traffic.htm

Texas Department of Transportation
Traffic Operations Division

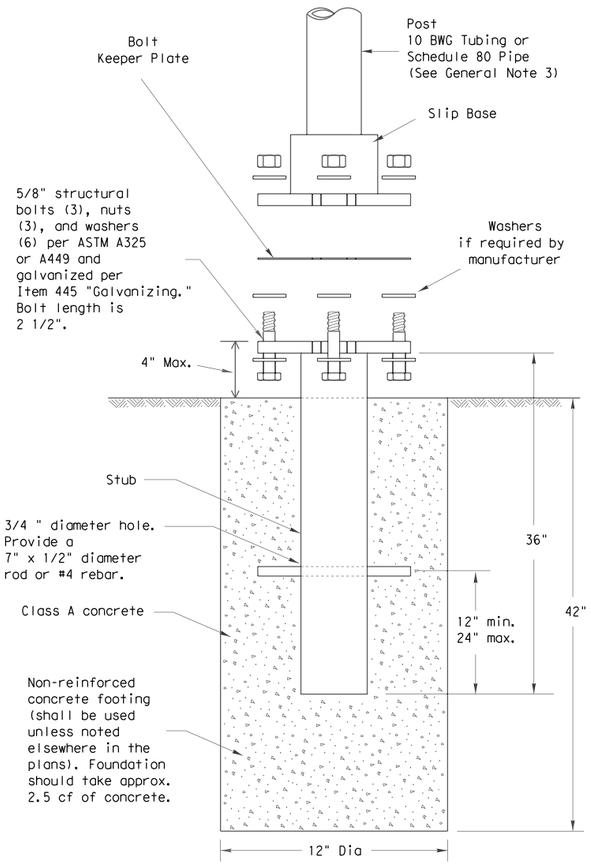
SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS GENERAL NOTES & DETAILS

SMD(GEN)-08

DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT

REVISIONS	CONT	SECT	JOB	HIGHWAY
9-08	0904	00	223	VARIOUS
	DIST	COUNTY		SHEET NO.
	AMA	POTTER		128

TRIANGULAR SLIPBASE INSTALLATION GENERAL REQUIREMENTS



SM RD SGN ASSM TY XXXXX(X)SA(X-XXXX)

NOTE

There are various devices approved for the Triangular Slipbase System. Please reference the Material Producer List for approved slip base systems. http://www.txdot.gov/business/producer_list.htm The devices shall be installed per manufacturers' recommendations. Installation procedures shall be provided to the Engineer by Contractor.

GENERAL NOTES:

1. 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.
2. Material used as post with this system shall conform to the following specifications:
   10 BWG Tubing (2.875" outside diameter)
   - 0.134" nominal wall thickness
   - Seamless or electric-resistance welded steel tubing or pipe
   - Steel shall be HSLAS Gr 55 per ASTM A1011 or ASTM A1008
   - Other steels may be used if they meet the following:
     - 55,000 PSI minimum yield strength
     - 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 2.883"
   - Galvanization per ASTM A123 or ASTM A653 G210. For precoated steel tubing (ASTM A653), recoat tube outside diameter weld seam by metallizing with zinc wire per ASTM B833.

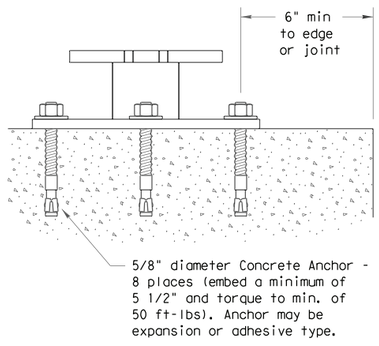
   Schedule 80 Pipe (2.875" outside diameter)
   - 0.276" nominal wall thickness
   - Steel tubing per ASTM A500 Gr C
   - Other seamless or electric-resistance welded steel tubing or pipe with equivalent outside diameter and wall thickness may be used if they meet the following:
     - 46,000 PSI minimum yield strength
     - 62,000 PSI minimum tensile strength
     - 21% minimum elongation in 2"
   - Wall thickness (uncoated) shall be within the range of 0.248" to 0.304"
   - Outside diameter (uncoated) shall be within the range of 2.855" to 2.895"
   - Galvanization per ASTM A123
3. 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/publications/traffic.htm
4. Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.

ASSEMBLY PROCEDURE

Foundation
1. Prepare 12-inch diameter by 42-inch deep hole. If solid rock is encountered, the depth of the foundation may be reduced such that it is embedded a minimum of 18 inches into the solid rock.
2. The Engineer may permit batches of concrete less than 2 cubic yards to be mixed with a portable, motor-driven 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 A.
3. Push the pipe end of the slip base stub into the center of the concrete. Rotate the stub back and forth while pushing it down into the concrete to assure 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.
4. Plumb the stub. Allow a minimum of 4 days to set, unless otherwise directed by the Engineer.
5. The triangular slipbase system is multidirectional and is designed to release when struck from any direction.

Support
1. Cut support so that the bottom of the sign will be 7 to 7.5 feet above the edge of the travelway (i.e., edge of the closest lane) when slip plate is below the edge of pavement or 7 to 7.5 feet above slip plate when the slip plate is above the edge of the travelway. The cut shall be plumb and straight.
2. Attach sign 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



SM RD SGN ASSM TY XXXXX(X)SB(X-XXXX)

Concrete anchor consists of 5/8" diameter stud bolt with UNC series bolt threads on the upper end. Heavy hex nut per ASTM A563, 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-6100, "Epoxies and Adhesives." Adhesive anchors may be loaded after adequate epoxy cure time per the manufacturer's recommendations. Top of bolt shall extend at least flush with top of the nut when installed. The anchor, when installed in 4000 psi normal-weight concrete with a 5 1/2" minimum embedment, shall have a minimum allowable tension and shear of 3900 and 3100 psi, respectively.

Texas Department of Transportation
Traffic Operations Division

SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM

SMD(SLIP-1)-08

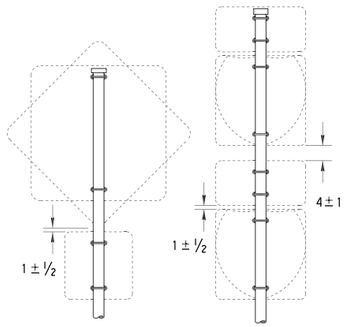
DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT

REVISIONS
9-08

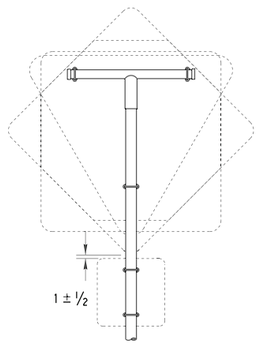
CONT	SECT	JOB	HIGHWAY
0904	00	223	VARIOUS

DIST	COUNTY	SHEET NO.
AMA	POTTER	128A

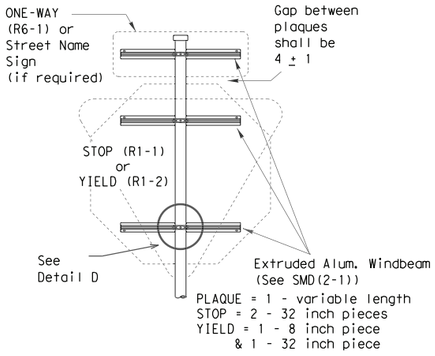
DATE:
FILE:



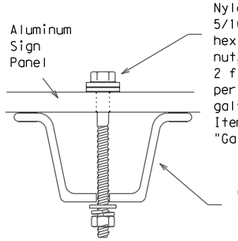
SM RD SGN ASSM TY XXXXX(1)XX(P)



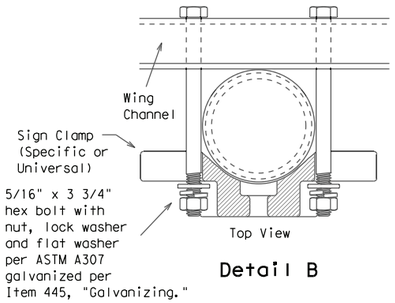
SM RD SGN ASSM TY XXXXX(1)XX(T)



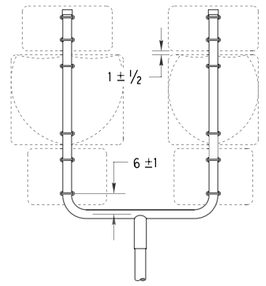
SM RD SGN ASSM TY XXXXX(1)XX(P-BM)



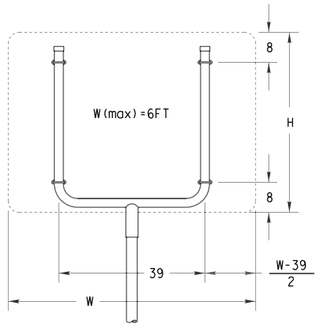
Detail A



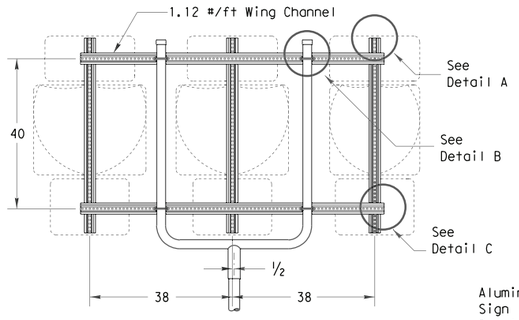
Detail B



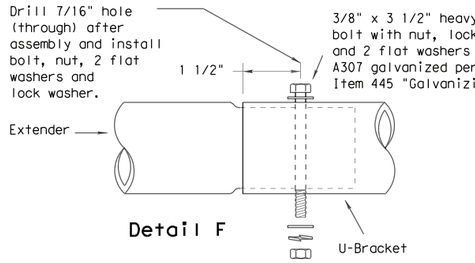
SM RD SGN ASSM TY XXXXX(1)XX(U)



SM RD SGN ASSM TY XXXXX(1)XX(U)

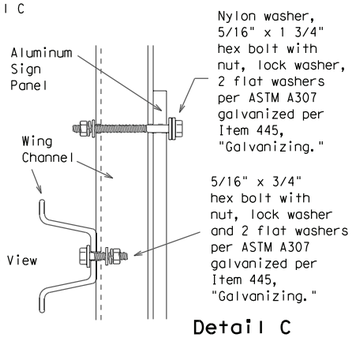


SM RD SGN ASSM TY XXXXX(1)XX(U-WC)
(See Note 11)

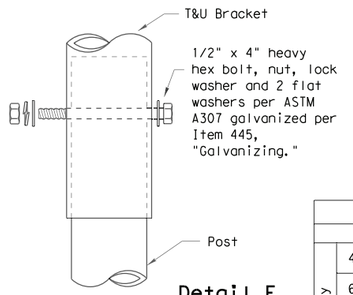


Detail F

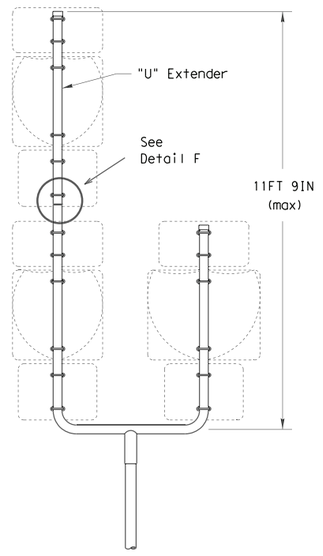
Splices shall only be allowed behind the sign substrate.



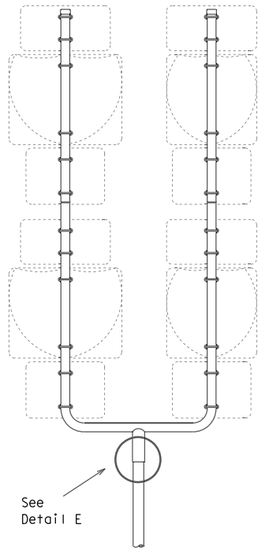
Detail C



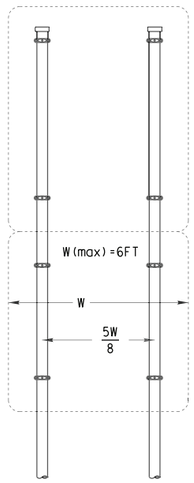
Detail E



SM RD SGN ASSM TY S80(1)XX(U-1EXT)

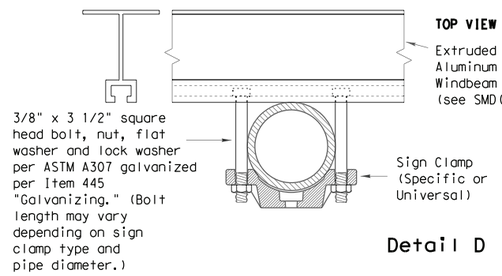


SM RD SGN ASSM TY S80(1)XX(U-2EXT)

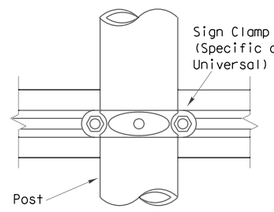


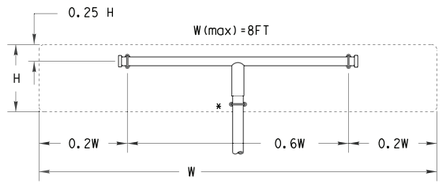
SM RD SGN ASSYM TY XXXXX(2)XX(P)

SIDE VIEW



Detail D

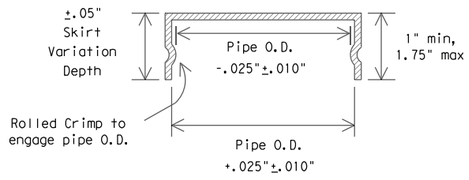




All dimensions are in english unless detailed otherwise.

SM RD SGN ASSM TY XXXXX(1)XX(T)
(* - See Note 12)

FRICTION 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 electrodeposited coating of zinc in accordance with the requirements of ASTM B633 Class FE/ZN 8.

GENERAL NOTES:

1.

SIGN SUPPORT	# OF POSTS	MAX. SIGN AREA
10 BWG	1	16 SF
10 BWG	2	32 SF
Sch 80	1	32 SF
Sch 80	2	64 SF

2. The Engineer may require that a Schedule 80 post be used in place of a 10 BWG where a sign height is abnormally high due to a fill slope.
3. Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.
4. Aluminum sign blanks shall conform to Departmental Material Specifications DMS-7110 and shall have the following minimum thicknesses: 0.080 for signs less than 7.5 sq. ft., 0.100 for signs 7.5 to 15 sq. ft., and 0.125 for signs greater than 15 sq. ft.
5. Signs that require specific supports due to reasons in addition to windloading are indicated on the "REQUIRED SUPPORT" table on this sheet.
6. For horizontal rectangular signs fabricated from flat aluminum, T-brackets are used for signs 24 inches or less in height. U-brackets are used for signs of greater height.
7. When two triangular slipbase supports are used to support a single sign, they shall not be "rigidly" connected to each other except through the sign panel. This will allow each support to act independently when impacted by an errant vehicle.
8. Wing channel shall meet ASTM A 1011 SS Gr 50 and be galvanized per ASTM A 123.
9. Excess pipe, wing channel, or windbeam shall be cut off so that it does not extend beyond the sign panel (i.e., excess support shall not be visible when the sign is viewed from the front.) Repair galvanized coating at cut support ends per Item 445, "Galvanizing."
10. Additional route markers may be added vertically, provided the total sign area does not exceed the maximum allowable amount per Note 1.
11. Additional sign clamp required on the "T-bracket" post for 24 inch height signs. Place the clamp 3 inches above bottom of sign when possible.
12. Post open ends shall be fitted with Friction Caps.
13. Sign blanks shall be the sizes and shapes shown on the plans.

REQUIRED SUPPORT

	SIGN DESCRIPTION	SUPPORT
Regulatory	48-inch STOP sign (R1-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	60-inch YIELD sign (R1-2)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	48x16-inch ONE-WAY sign (R6-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	36x48, 48x36, and 48x48-inch signs	TY 10BWG(1)XX(T)
	48x60-inch signs	TY S80(1)XX(T)
Warning	48x48-inch signs (diamond or square)	TY 10BWG(1)XX(T)
	48x60-inch signs	TY S80(1)XX(T)
	48-inch Advance School X-ing sign (S1-1)	TY 10BWG(1)XX(T)
	48-inch School X-ing sign (S2-1)	TY 10BWG(1)XX(T)
	Large Arrow sign (W1-6 & W1-7)	TY 10BWG(1)XX(T)

Texas Department of Transportation
Traffic Operations Division

SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM

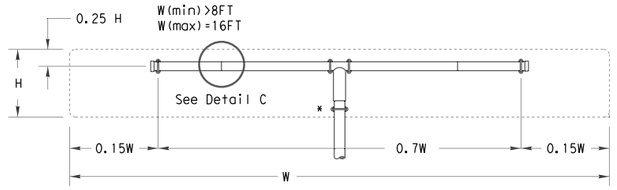
SMD(SLIP-2)-08

DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT

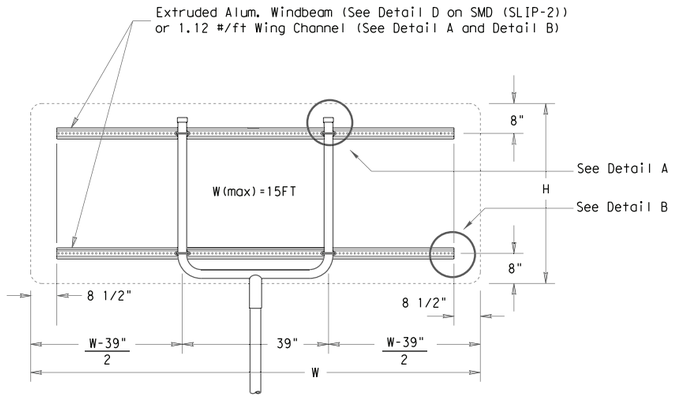
REVISIONS	CONT	SECT	JOB	HIGHWAY
9-08	0904	00	223	VARIOUS
	DIST	COUNTY		SHEET NO.
	AMA	POTTER		128B

DATE:
FILE:

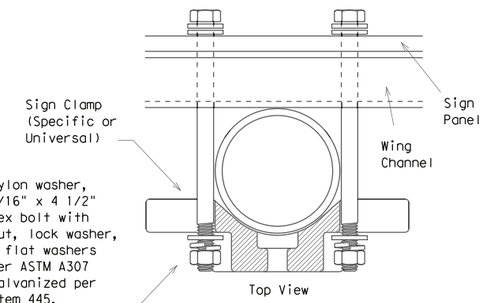
DATE:
FILE:



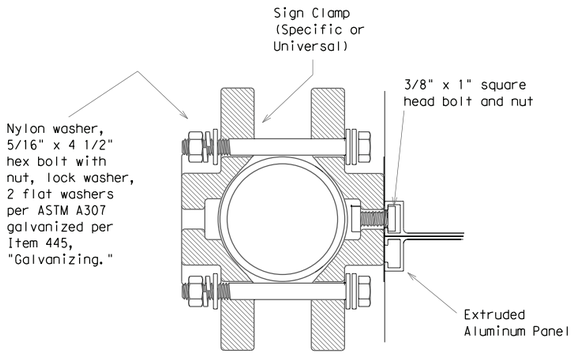
SM RD SGN ASSM TY XXXXX(1)XX(T-2EXT)
(* - See Note 12)



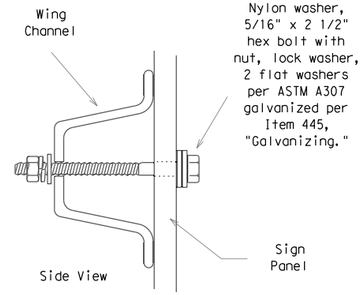
SM RD SGN ASSM TY XXXXX(1)XX(U-XX)



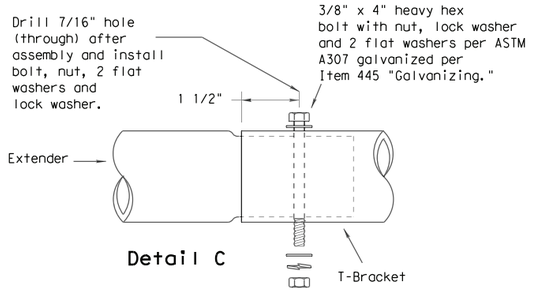
Detail A



Detail D
EXTRUDED ALUMINUM SIGN WITH T BRACKET

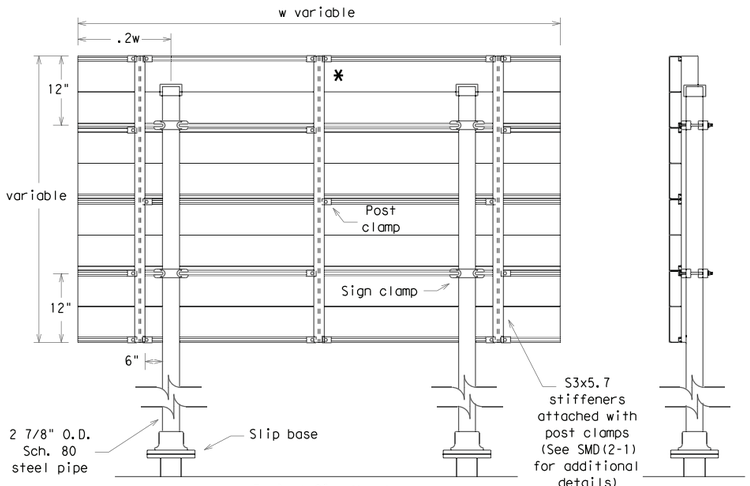


Detail B



Detail C

Splices shall only be allowed behind the sign substrate.

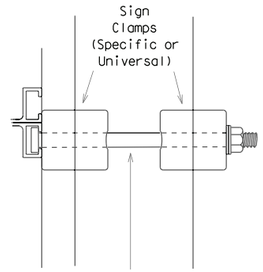


Typical Sign Mount

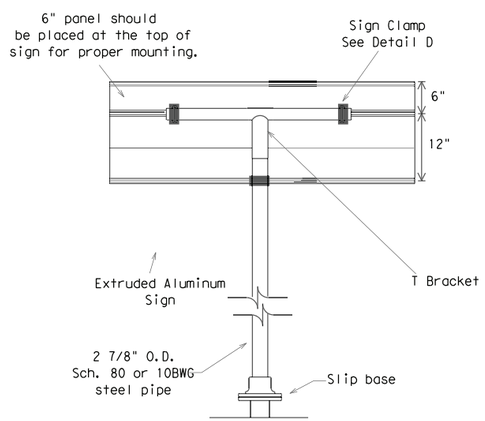
SM RD SGN ASSM TY S80(2)XX(P-EXAL)

* Additional stiffener placed at approximate center of signs when sign width is greater than 10'.

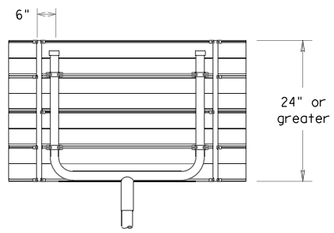
See Detail E
for clamp installation



Detail E



Extruded Aluminum Sign
With T Bracket



Use Extruded Alum. Windbeam as stiffeners
See SMD (2-1) for additional details

See Detail E
for clamp installation

GENERAL NOTES:

SIGN SUPPORT	# OF POSTS	MAX. SIGN AREA
10 BWG	1	16 SF
10 BWG	2	32 SF
Sch 80	1	32 SF
Sch 80	2	64 SF

1.
2. The Engineer may require that a Schedule 80 post be used in place of a 10 BWG where a sign height is abnormally high due to a fill slope.
3. Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.
4. Aluminum sign blanks shall conform to Departmental Material Specifications DMS-7110 and shall have the following minimum thicknesses: 0.080 for signs less than 7.5 sq. ft., 0.100 for signs 7.5 to 15 sq. ft., and 0.125 for signs greater than 15 sq. ft.
5. Signs that require specific supports due to reasons in addition to windloading are indicated on the "REQUIRED SUPPORT" table on this sheet.
6. For horizontal rectangular signs fabricated from flat aluminum, T-brackets are used for signs 24 inches or less in height. U-brackets are used for signs of greater height.
7. When two triangular slipbase supports are used to support a single sign, they shall not be "rigidly" connected to each other except through the sign panel. This will allow each support to act independently when impacted by an errant vehicle.
8. Wing channel shall meet ASTM A 1011 SS Gr 50 and be galvanized per ASTM A 123.
9. Excess pipe, wing channel, or windbeam shall be cut off so that it does not extend beyond the sign panel (i.e., excess support shall not be visible when the sign is viewed from the front.) Repair galvanized coating at cut support ends per Item 445, "Galvanizing."
10. Sign blanks shall be the sizes and shapes shown on the plans.
11. Additional sign clamp required on the "T-bracket" post for 24 inch high signs. Place the clamp 3 inches above bottom of sign when possible.
12. Post open ends shall be fitted with Friction Caps.

REQUIRED SUPPORT		
	SIGN DESCRIPTION	SUPPORT
Regulatory	48-inch STOP sign (R1-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	60-inch YIELD sign (R1-2)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	48x16-inch ONE-WAY sign (R6-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	36x48, 48x36, and 48x48-inch signs	TY 10BWG(1)XX(T)
	48x60-inch signs	TY S80(1)XX(T)
Warning	48x48-inch signs (diamond or square)	TY 10BWG(1)XX(T)
	48x60-inch signs	TY S80(1)XX(T)
	48-inch Advance School X-ing sign (S1-1)	TY 10BWG(1)XX(T)
	48-inch School X-ing sign (S2-1)	TY 10BWG(1)XX(T)
	Large Arrow sign (W1-6 & W1-7)	TY 10BWG(1)XX(T)

Texas Department of Transportation
Traffic Operations Division

SIGN MOUNTING DETAILS
SMALL ROADSIDE SIGNS
TRIANGULAR SLIPBASE SYSTEM

SMD(SLIP-3)-08

REVISIONS
9-08

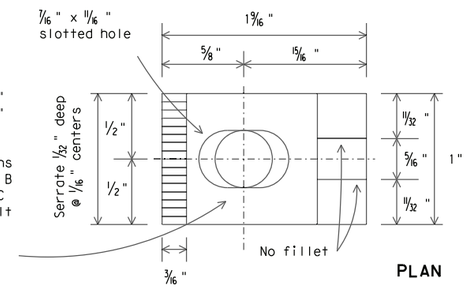
DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT

CONT	SECT	JOB	HIGHWAY
0904	00	223	VARIOUS

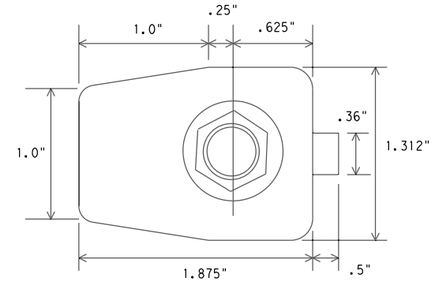
DIST	COUNTY	SHEET NO.
AMA	POTTER	128C

DATE: 4/16/2024 3:25:27 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03*ROADWAY\STD\smd21-08.dgn

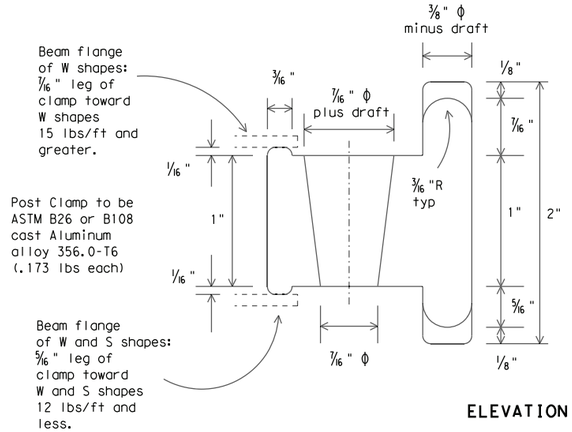
NOTE: centerline of hole for 3/8" diameter squarehead bolt x 2 1/4" long with a flat washer and self-locking nut, or lock washer and hex. nut. Bolt head dimensions shall be in accordance with ANSI B 18.2.1 as referred to in the AISC Manual of steel construction. Bolt assembly shall be galvanized.



PLAN

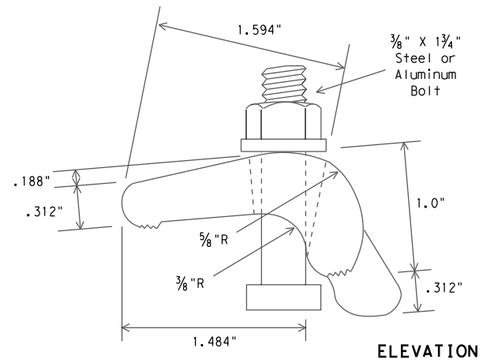


PLAN



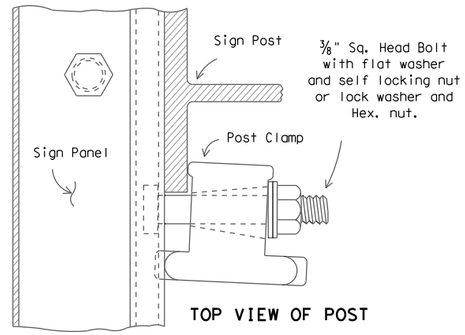
ELEVATION

POST CLAMP DETAIL

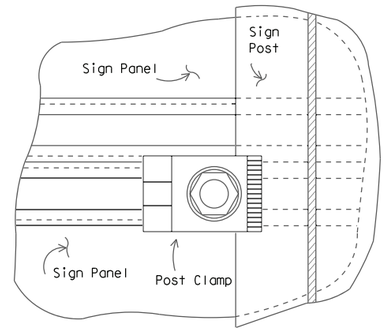


ELEVATION

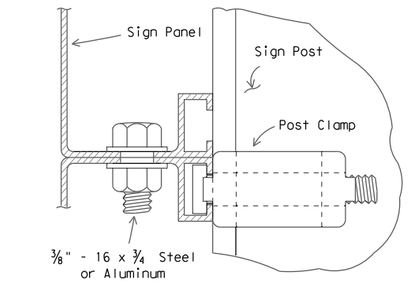
ALTERNATE POST CLAMP DETAIL



TOP VIEW OF POST



TOP VIEW OF CLAMP



SIDE VIEW OF PANELS

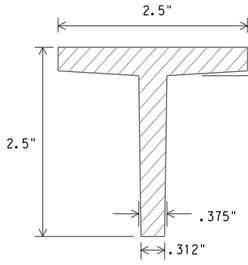
CONNECTION DETAILS

DEPARTMENTAL MATERIAL SPECIFICATIONS

SIGN HARDWARE — DMS-7120

GENERAL NOTES:

1. Design conforms with AASHTO Specifications for the design and construction of structural supports for highway signs.
2. Materials and fabrication shall conform to the requirements of the Department material specifications.
3. Structural steel shall be "low-alloy steel" for non-bridge structures per Item 442, "Metal For Structures."
4. For fiberglass substrate connection details, see manufacturer's recommendations.

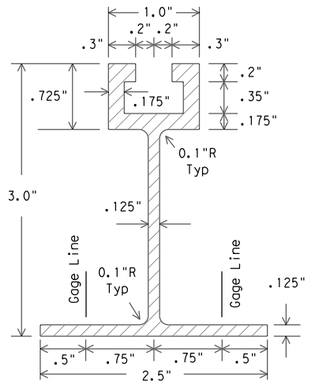


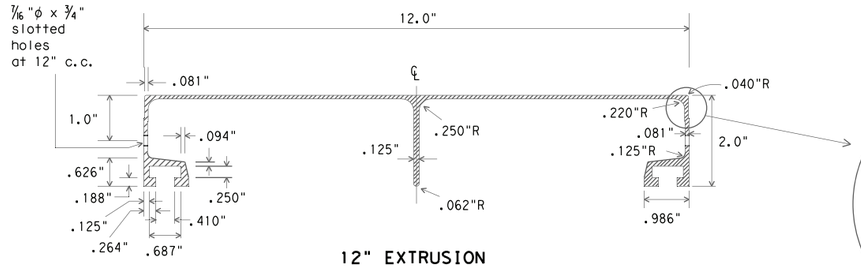
1.912 lbs/ft

ALUMINUM T SECTION OR APPROVED ALTERNATIVE

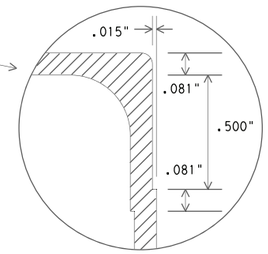
WINDBEAM CROSS SECTION

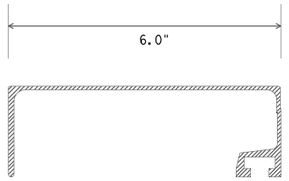
Windbeam to be extruded aluminum (1.175 lbs/ft) or approved alternative



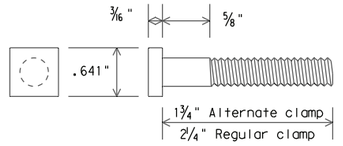


12" EXTRUSION





6" EXTRUSION



POST CLAMP BOLT DETAIL

ALUMINUM SIGN PANEL EXTRUSION DETAILS

Texas Department of Transportation
Traffic Operations Division

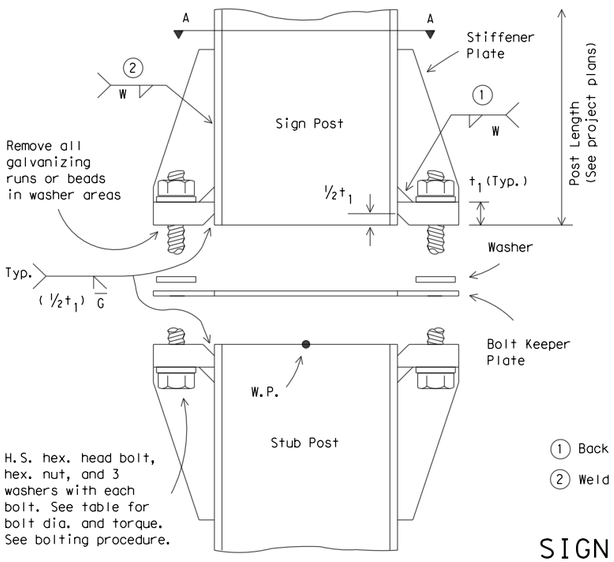
SIGN MOUNTING DETAILS- EXTRUDED ALUMINUM SIGN PANELS & HARDWARE

SMD(2-1)-08

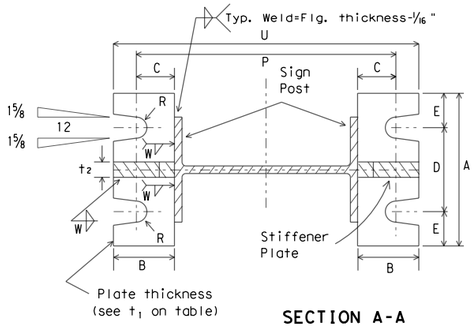
DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT

REVISIONS	CONT	SECT	JOB	HIGHWAY
9-08	0904	00	223	VARIOUS
	DIST	COUNTY		SHEET NO.
	AMA	POTTER		128D

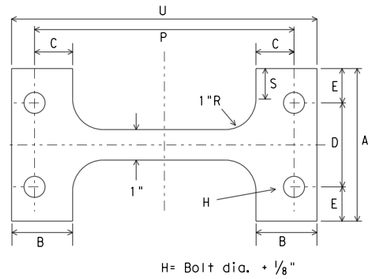
DATE: 9/20/2023 7:04:49 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03*ROADWAY\STD\smd22-08.dgn



ELEVATION

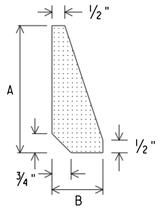


SECTION A-A



H= Bolt dia. + 1/8"

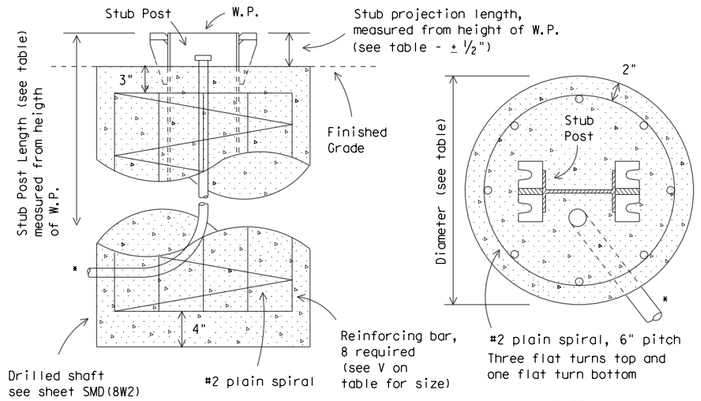
BOLT KEEPER PLATE
30 Ga galv. sheet steel



STIFFENER PLATE DETAIL

Steel Plate (thickness = t_2)

(See table for dimensions)

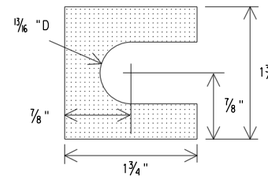


ELEVATION

PLAN

FOUNDATION DETAIL

*Note: For signs with electrical apparatus, see ED(10) for conduit required in founation.



SHIM DETAIL

Furnish two .012"± thick and two .032"± thick shims per post. Shims shall be fabricated from brass shim stock or strip conforming to ASTM B36.

BOLTING PROCEDURE FOR ASSEMBLY OF BASE CONNECTION:

1. Assemble sign post, BOLT KEEPER PLATE and stub post with bolts and three flat washers per bolt as shown.
2. Shim as required to plumb post.
3. Tighten all bolts the maximum possible with a 12 to 15 inch wrench to clean bolt threads and to bed washers and shims.
4. Loosen each bolt in sequence and retighten bolts in a systematic order to the prescribed torque. Do not overtighten.
5. To prevent nut loosening, burr threads of bolt at junction with nut using a center punch.

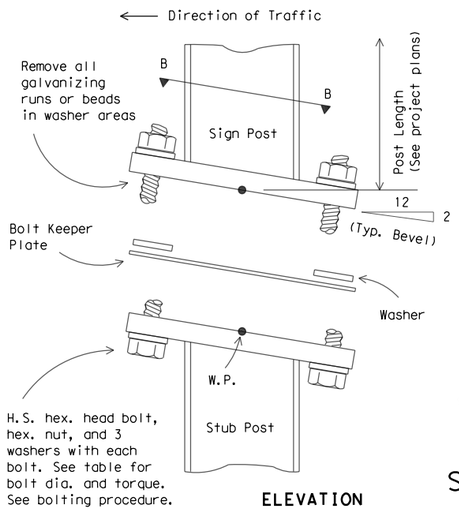
Dimensions / Post Size	Base Connection Data Table: Bolt Size & Torque	A	B	C	D	E	t_1	t_2	W	R
W6x9	5/8"ϕ x 2¾" 440-450 inch pounds 36-38 foot pounds	5"	2"	1¼"	2¾"	1⅛"	¾"	½"	¼"	11/32"
W6x12										
W6x15										
W8x18										
W8x21	¾"ϕ x 3½" 740-750 inch pounds 62-63 foot pounds	6"	2¼"	1⅜"	3½"	1¼"	1"	¾"	5/16"	13/32"
W10x22										
W10x26										
W12x26										
S3x5.7	½"ϕ x 2½" 440-450 inch pounds 36-38 foot pounds	See Detail Below								
S4x7.7										

Perforated Fuse Plate Data Table												Bolt Keeper Data			Foundation Data			
F	G	J	K	M	d_1	d_2	t_3	Bolt Dia.	Wt. (ea.) (lbs.)	Bolt length	P	S	U	Stub length	Stub projection	Dr. Shaft diameter	Bar V Size
4¼"	2"	4"	2¼"	1"	9/16"	¾"	¼"	½"	1.01	1½"	8⅜"	1"	9⅞"	2'-0"	3"	24"	#5
											8½"		10"				#5
5"	2½"	6"	3½"	1½"	11/16"	1¼"	⅜"	⅝"	2.51	2¼"	8½"		10"	2'-6"	3"		#6
5"	2½"	5¼"	2¾"	1¼"	11/16"	1 1/16"	⅜"	⅝"	2.26	2¼"	10⅝"		12⅛"	2'-6"	3"		#7
5½"	2½"	5¼"	2¾"	1¼"	13/16"	1"	½"	¾"	3.35	2¼"	11"	1½"	12¾"	3'-0"	2½"		#8
6"	3"	5¾"	2¾"	1⅜"	13/16"	1⅛"	½"	¾"	4.03	2¼"	12⅞"		14⅝"	3'-0"	2½"		#9
											13⅜"		14⅞"	3'-0"	2½"		#10
6"	3"	6½"	3½"	1⅝"	13/16"	1 5/16"	½"	¾"	4.47	2¼"	15"		16¾"	3'-0"	2½"		#11
3¾"	1½"	2⅝"	1½"	⅝"	9/16"	⅜"	¼"	½"	0.60	1½"	See Detail Below			3'-3½"	3½"	12"	Non-reinforced ③

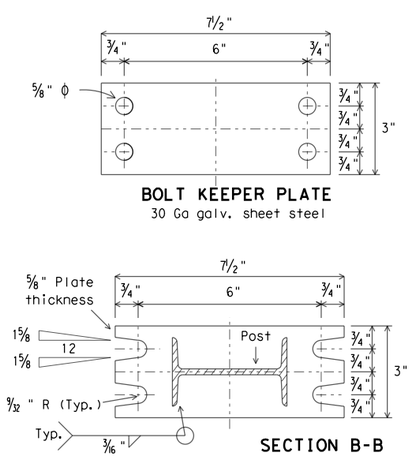
③ Foundation design shall be Type G Mount, see SMD (TY G).

PERFORATED FUSE PLATE DETAIL

Use H.S. hex head bolts, hex head nut and bevel or flat washer (where req'd) under nut. All holes shall be drilled, sub-punched and reamed. All plate cuts shall preferably be saw cuts. However, flame cutting will be permitted provided all edges are ground. Metal projecting beyond the plane of the plate face will not be permitted. Steel fuse plates shall conform to the requirements of ASTM A36. ASTM A572 Grade 50 or ASTM A588 may be substituted for A36 at the option of the fabricator. Mill test reports shall be submitted for Fuse Plates. Steel used shall have an ultimate tensile strength not to exceed 80 KSI. For alternative Fuse Plate contact Traffic Operations Division.

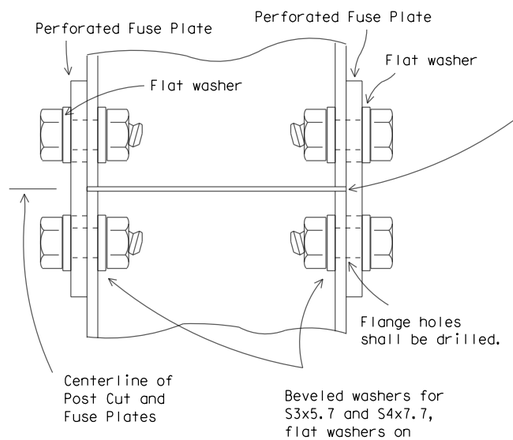


ELEVATION



SIGN POST AND STUB POST

(For S4x7.7 and S3x5.7)



DETAIL "A"

Parts shall be saw cut either before galvanizing and the galvanized cut cleaned of zinc build-up, or saw cut after galvanizing and the cut surface repaired per Item 445, "Galvanizing."

① Back up weld to be made before installing stiffener plate

② Weld W may be continued across clips to seal joint

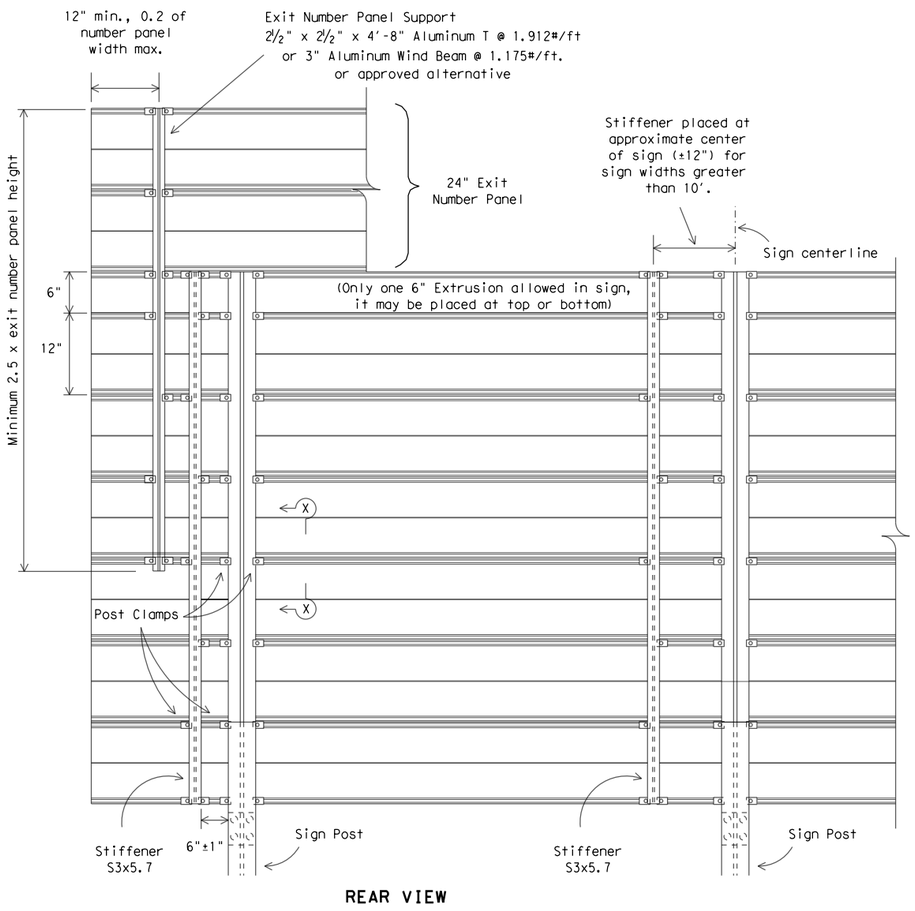
Texas Department of Transportation
Traffic Operations Division

SIGN MOUNTING DETAILS- LARGE ROADSIDE SIGNS FOUNDATION & STUB

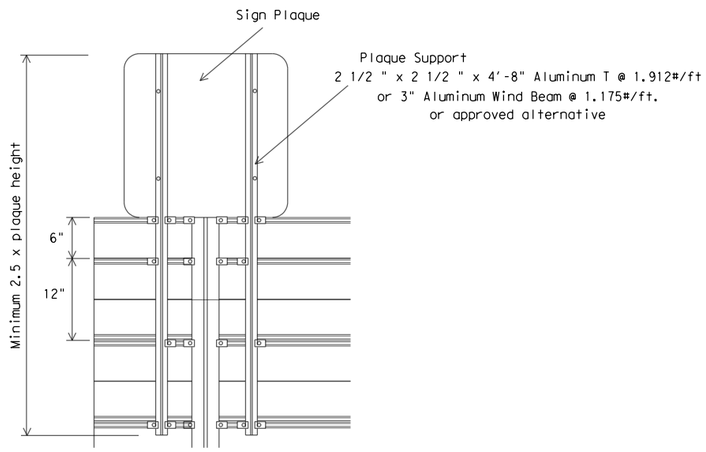
SMD(2-2)-08

REVISIONS	DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT
4-98	CONT	SECT	JOB	HIGHWAY
9-08	0904	00	223	VARIOUS
	DIST	COUNTY		SHEET NO.
	AMA	POTTER		129

DATE: 9/20/2023 7:04:49 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03*ROADWAY\STD\smd23-08.dgn

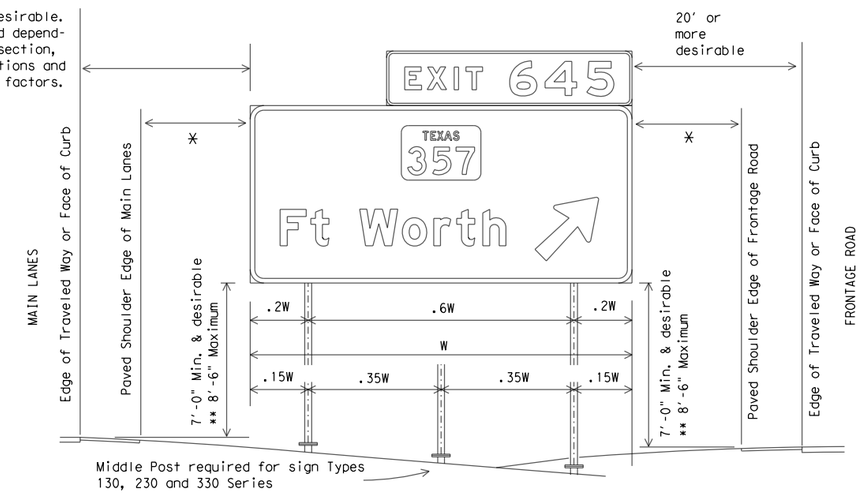


ALUMINUM PARENT SIGN & EXIT NUMBER PANEL MOUNTING DETAILS



SIGN PLAQUE MOUNTING DETAIL TO ALUMINUM PARENT SIGN

30' or more desirable. May be reduced depending on cross section, viewing conditions and other related factors.



TYPICAL SIGN INSTALLATION AND LOCATION

LATERAL CLEARANCE NOTES:

Lateral clearances of signs mounted on median side of main lanes are the same as shown above where space will permit.

Where a sign is to be located behind guardrail, an allowable minimum clearance of five feet may be used, measured from the face of the guardrail to the near edge of sign.

✳ - 6' minimum and desirable may be used only in areas of limited lateral clearance and when approved by the Engineer.

POST SPACING NOTES:

Post spacing on a two post sign may vary a maximum of plus or minus 10% of total sign width to fit field conditions.

Post spacing on a three post sign may vary a maximum of plus or minus 5% of total sign width to fit field conditions.

SIGN HEIGHT NOTES:

** The 8' 6" maximum may be exceeded when placing signs on extreme slopes. In these conditions, a 7' minimum from natural ground to bottom of sign must be maintained.

DEPARTMENTAL MATERIAL SPECIFICATIONS	
ALUMINUM SIGN BLANKS	DMS-7110
SIGN HARDWARE	DMS-7120

GENERAL NOTES:

1. Exit number panel shall be mounted to the right hand side of the parent sign for right exits and to the left hand side for left exits. The number panel shall be mounted with two uprights so its right edge is even with the right edge of the parent sign or vice-versa for left hand exits.
2. Exit number panel support shall be symmetrical about number panel centerline.
3. Exit number panel support shall be ASTM A36 structural steel galvanized after fabrication, or ASTM B221 aluminum alloy 6061-T6 or approved alternative.
4. All bolts, nuts and washers shall be galvanized per ASTM Designation: B695 Class 50, or A153 Class C or D.
5. Posts, parent sign panels, and exit number panels shall comply with notes on sheets SMD(2-1) and SMD(2-2).
6. Signs (such as exit number panels) attached above a parent sign shall be made of the same type material as the parent sign. General Service and Routing signs may be fabricated from flat sheet aluminum.
7. Exit number panel support and other connection hardware required to fasten exit number panel to parent sign shall be subsidiary to "Aluminum Signs" or "Fiberglass Signs."
8. For fiberglass sign installation details, see manufacturer's recommendations.

Texas Department of Transportation
Traffic Operations Division

SIGN MOUNTING DETAILS-LARGE ROADSIDE SIGNS

SMD(2-3)-08

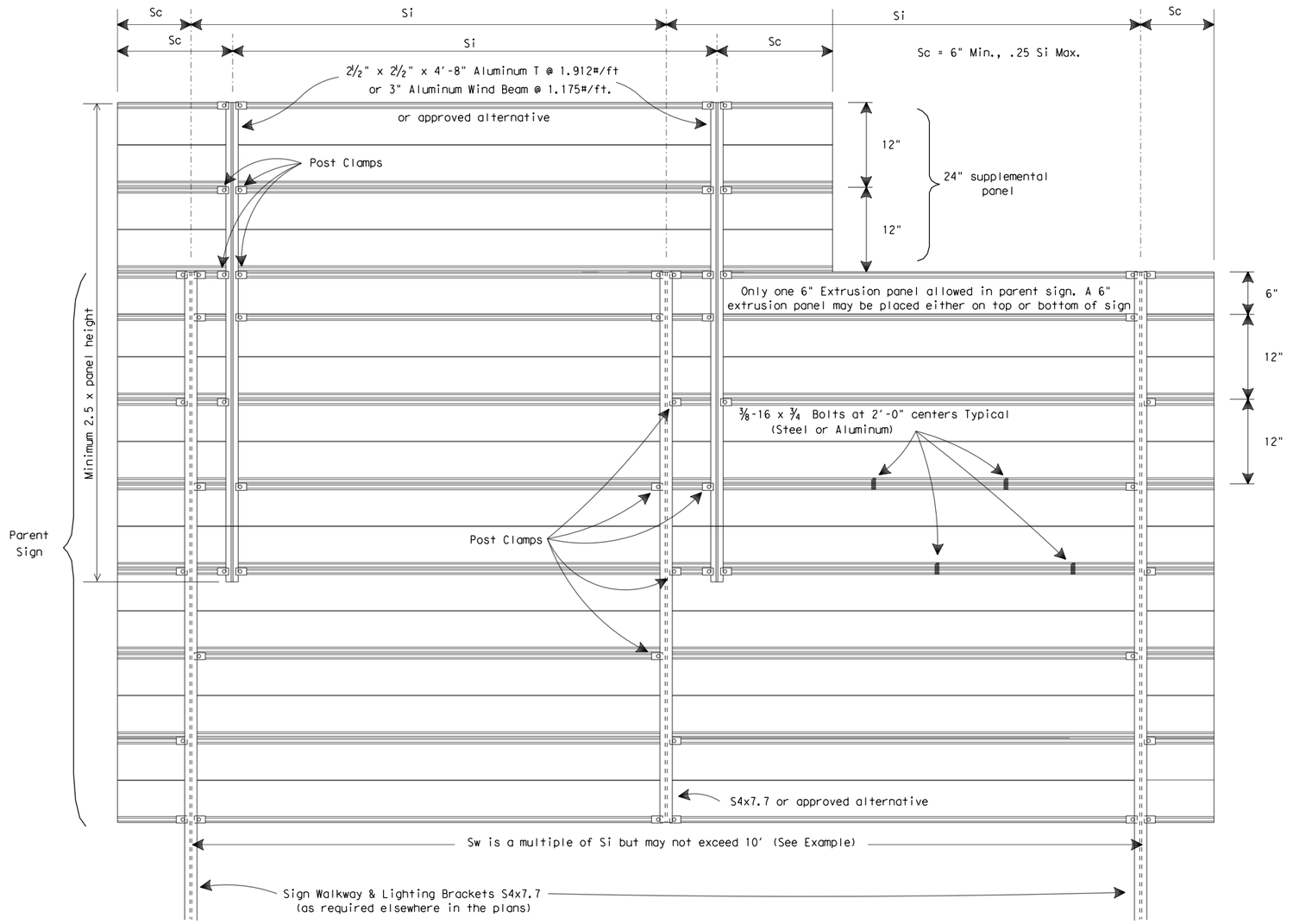
DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT

REVISIONS
9-08

CONT	SECT	JOB	HIGHWAY
0904	00	223	VARIOUS

DIST	COUNTY	SHEET NO.
AMA	POTTER	130

DATE: 9/20/2023 7:04:50 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03*ROADWAY\STD\smd24-08.dgn

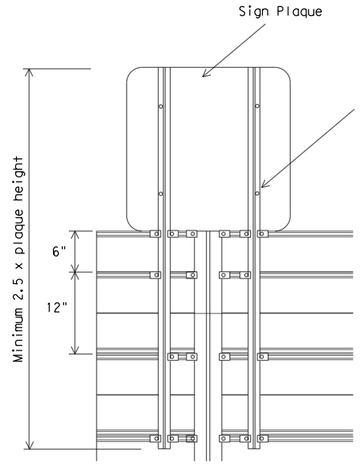


REAR VIEW

EXAMPLES (FOR DETERMINING Si and Sw)

NO.	ZONE	"d"	EXIT PANEL	WALKWAY	Si	Sw	COMMENT
1	1	15.0	YES	YES	4.5	9.0	Sw=2x(Si)
2	2	14.0	YES	NO	7.5	7.5	Sw = Si
3	1	15.0	NO	NO	8.5	8.5	Sw = Si
4	3	14.0	NO	YES	10.0	10.0	Sw = Si

Values shown for Si are maximum values. Si may be varied for different sign lengths and Truss mounting conditions. Sw should not exceed two times Si(Max.) or 10 feet.



SIGN PLAQUE MOUNTING DETAIL

MAXIMUM SIGN SUPPORT SPACING "Si" (FEET)

"d" Deepest Sign in Group (Ft.)	EXTRUDED ALUMINUM SIGN PANELS															
	WITH EXIT NUMBER PANELS								WITHOUT EXIT NUMBER PANELS							
	WITH WALKWAYS				WITHOUT WALKWAYS				WITH WALKWAYS				WITHOUT WALKWAYS			
	WIND ZONE				WIND ZONE				WIND ZONE				WIND ZONE			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
15	4.5	7	8	10	5	7	8	10	7	8	9	10	8.5	10	10	10
14	6	7.5	9.5	10	6	7.5	9.5	10	8	9	10	10	10	10	10	10
13	7.5	9	10	10	7.5	9	10	10	9	10	10	10	10	10	10	10
12	8.5	10	10	10	8.5	10	10	10	10	10	10	10	10	10	10	10
11 or less	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

For fiberglass sign installations, see manufacturer's recommendations.

Texas Department of Transportation
Traffic Operations Division

SIGN MOUNTING DETAILS-OVERHEAD SIGNS EXTRUDED ALUMINUM

SMD(2-4)-08

DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT

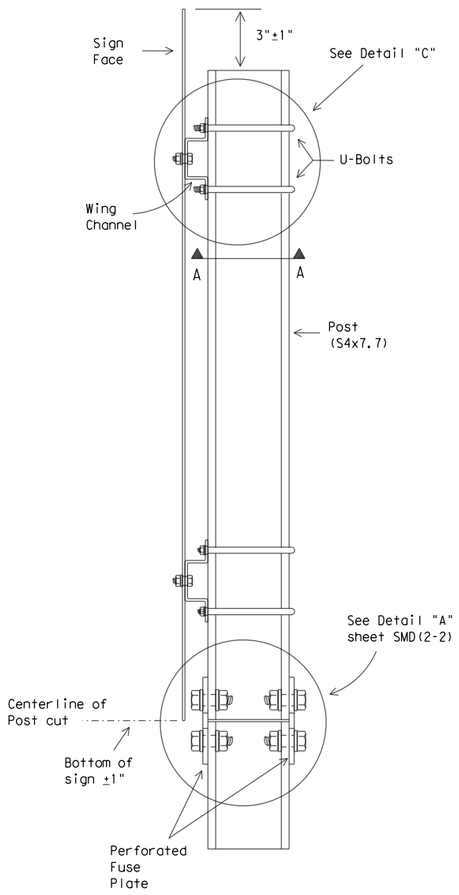
REVISIONS
9-08

CONT	SECT	JOB	HIGHWAY
0904	00	223	VARIOUS

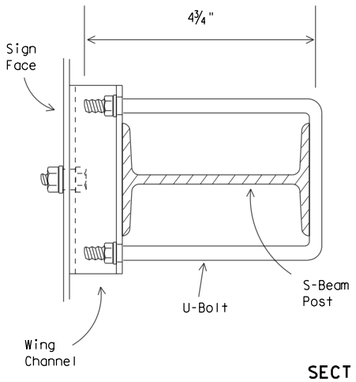
DIST	COUNTY	SHEET NO.
AMA	POTTER	131

DATE: 9/20/2023 7:04:50 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03*ROADWAY\STD\smdtyg08.dgn

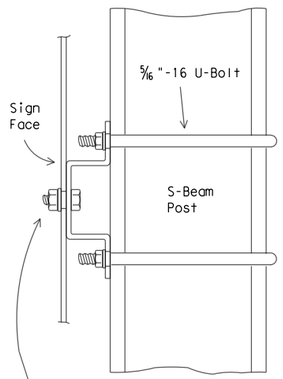
WING CHANNEL CLAMP DETAIL FOR TYPE G MOUNT



SIDE VIEW

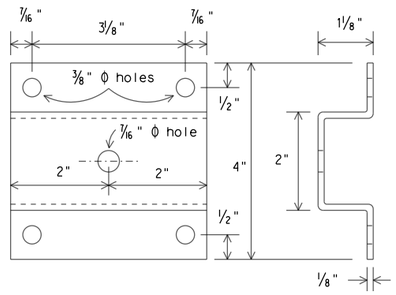


SECTION A-A



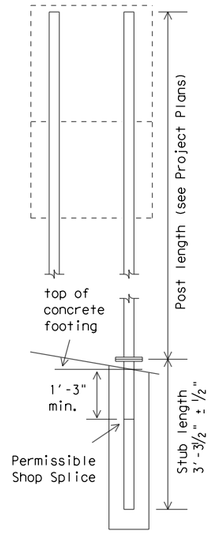
Galvanized steel or aluminum self-locking hex. head nut. 3/8 " - 16 x 3/4 " hex. head bolt for sheet metal. 3/8 " - 16 x 1 1/4 " hex. head bolt for plywood. 3/8 " galvanized medium washer.

DETAIL "C"

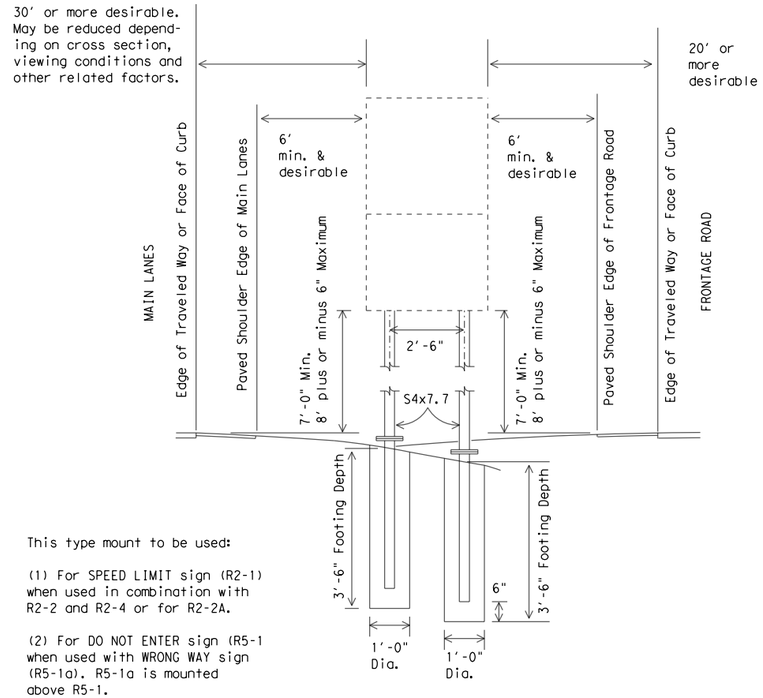


WING CHANNEL

Wing channel, 4" width x 1⅛" depth x ⅛" thickness, shall be aluminum (ASTM B221 6061-T6 or B308 6061-T6), galvanized steel (ASTM A36) or stainless steel (ASTM A167 type 304, No. 2B finish).



The weight of one S4x7.7 post is equal to 112.2 lbs. plus 7.7 lbs./ft x (post length in feet minus 10 ft). The weight of 112.2 lbs. includes 10 feet of post length, post foundation stub, related connection plates, friction fuse plate, and all high strength bolts, nuts and washers.



This type mount to be used:

(1) For SPEED LIMIT sign (R2-1) when used in combination with R2-2 and R2-4 or for R2-2A.

(2) For DO NOT ENTER sign (R5-1 when used with WRONG WAY sign (R5-1a). R5-1a is mounted above R5-1.

DEPARTMENTAL MATERIAL SPECIFICATIONS
SIGN HARDWARE DMS-7120

GENERAL NOTES:

1. Design conforms with AASHTO Specifications for the design and construction of structural supports for highway signs.
2. Materials and fabrication shall conform to the requirements of the Department material specifications.
3. Structural steel shall be "Low-Alloy Steel" for non-bridge structures per Item 442, "Metal For Structures."
4. Parts shall be saw cut either before galvanizing and the galvanized cut cleaned of zinc build-up, or saw cut after galvanizing and the cut surface repaired per Item 445, "Galvanizing." (Cut surface will not be treated until plate is installed and all bolts fully tightened.)

Texas Department of Transportation
Traffic Operations Division

SIGN MOUNTING DETAILS, TYPE G SUPPORT

SMD(TY G)-08

DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT

REVISIONS
1-97
9-08

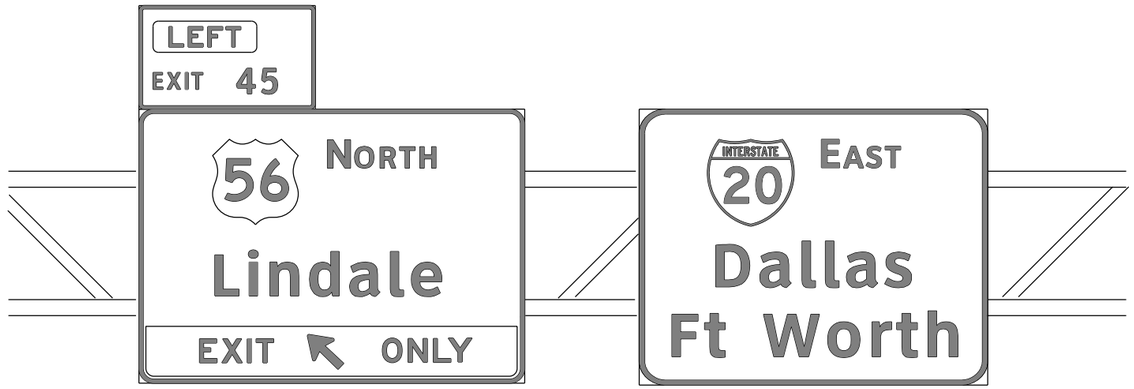
CONT	SECT	JOB	HIGHWAY
0904	00	223	VARIOUS

DIST	COUNTY	SHEET NO.
AMA	POTTER	132

DATE: 9/20/2023 7:04:50 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECT\SPACKAGE\tsr1-13.dgn

REQUIREMENTS FOR OVERHEAD AND LARGE GROUND-MOUNTED SIGNS

TYPICAL EXAMPLES



GENERAL NOTES

1. Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign summary sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD).
2. Black legend shall use the Federal Highway Administration (FHWA) Standard Highway Alphabets (B, C, D, E, Emod, or F).
   White legend shall use the Clearview Alphabet.
   The following Clearview fonts shall be used to replace the existing white FHWA lettering, when not specified in the SHSD or in the plans.

B	CV-1W
C	CV-2W
D	CV-3W
E	CV-4W
Emod	CV-5WR
F	CV-6W

3. 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.
4. Black legend shall be applied by screening process or cut-out acrylic non-reflective black film to background sheeting, or combination thereof.
5. White legend and borders shall be cut-out white sheeting applied to colored background sheeting.
6. Information regarding borders and radii for signs is found in the "Standard Highway Sign Designs for Texas". Dimensions shown and described for borders and corner radii on parent sign are nominal. Borders may vary in width as much as 1/2 inch. Corner radii above 3 inches may vary in width as much as 1 inch. Borders and corner radii within a parent sign must be of matching widths. The sign area outside the corner radius need not be trimmed or rounded if fabricated from an extruded material.
7. Sign substrate for ground-mounted signs shall be any material that meets the Departmental Material Specification requirements of DMS-7110 or approved alternative. Sign substrate for overhead signs shall be any material that meets DMS-7110. Exit Number Panels attached above the parent sign shall be made with the same substrate and sheeting as the parent sign.
8. Mounting details of attachments to parent sign face are shown on Standard Plan Sheet TSR(5). Mounting details of exit number panels above parent sign are shown in the "SMD series" Standard Plan Sheets.
9. Background sheeting shall be applied to the substrate per sheeting manufacturer's recommendations. Sheeting will not be allowed to bridge the horizontal gap between panels.
10. Cut all legend, symbols, borders, and direct applied sign attachments at panel joints.

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/

SHEETING REQUIREMENTS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	WHITE	TYPE B OR C SHEETING
BACKGROUND	ALL OTHERS	TYPE B OR C SHEETING
LEGEND & BORDERS	WHITE	TYPE D SHEETING
LEGEND & BORDERS	BLACK	ACRYLIC NON-REFLECTIVE FILM

Texas Department of Transportation

Traffic Operations Division Standard

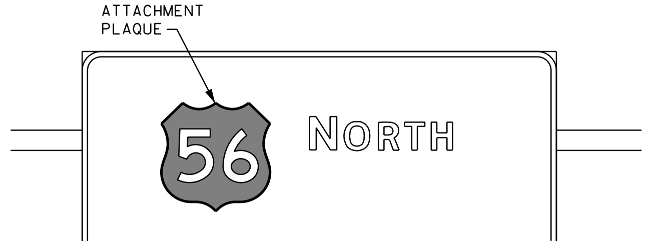
TYPICAL SIGN REQUIREMENTS

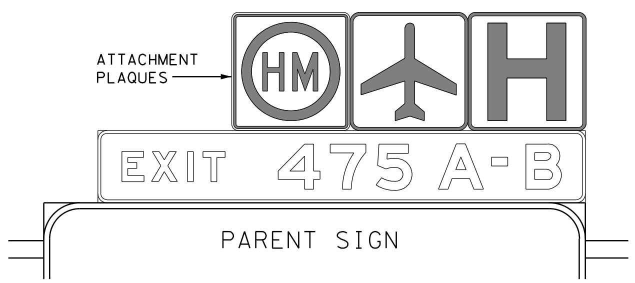
TSR(1)-13

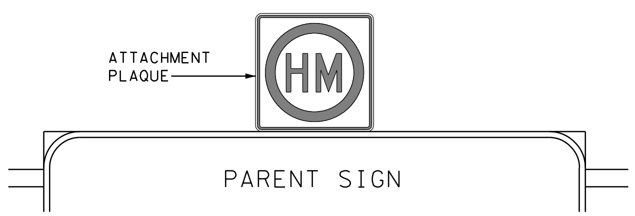
FILE: tsr1-13.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT October 2003	CONT	SECT	JOB	HIGHWAY
REVISIONS	0904	00	223	VARIOUS
12-03 7-13	DIST	COUNTY		SHEET NO.
9-08	AMA	POTTER		133

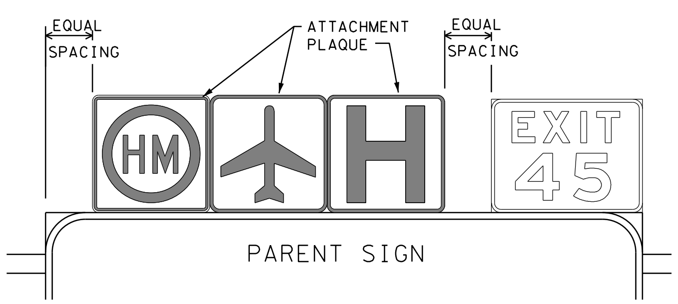
1

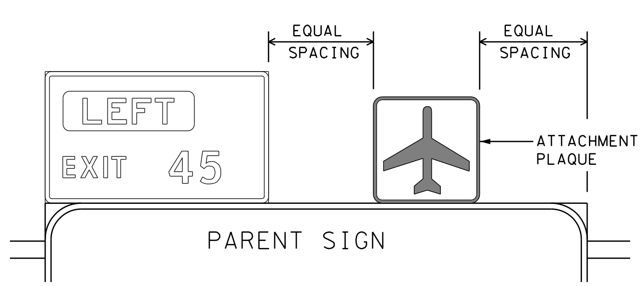
REQUIREMENTS FOR ATTACHMENTS TO OVERHEAD AND LARGE GROUND MOUNTED SIGNS









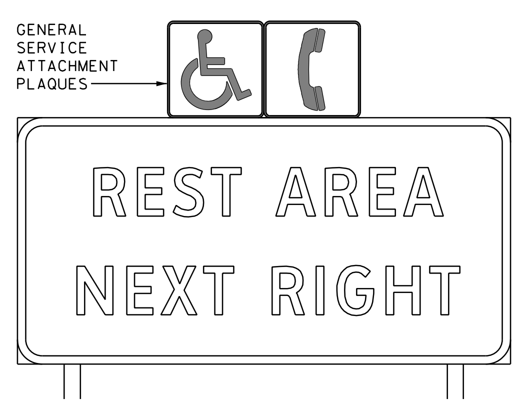


DEPARTMENTAL MATERIAL SPECIFICATIONS	
ALUMINUM SIGN BLANKS	DMS-7110
SIGN FACE MATERIALS	DMS-8300

SHEETING REQUIREMENTS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	ALL	TYPE B OR C SHEETING
LEGEND & BORDERS	BLACK	ACRYLIC NON-REFLECTIVE FILM
LEGEND & BORDERS	ALL OTHERS	TYPE B OR C SHEETING

GENERAL NOTES

1. Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign tabulation sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD).
2. Route Marker legends (ie. IH, US, SH and FM shields) shall use the Federal Highway Administration (FHWA) Standard Highway Alphabets (B, C, D, E, Emod, or F).
3. 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.
4. Black legend and borders shall be applied by screening process or cut-out acrylic non-reflective black film to background sheeting, or combination thereof.
5. White legend and borders shall be applied by screening process with transparent colored ink, transparent colored overlay film to white background sheeting or cut-out white sheeting to colored background sheeting, or combination thereof.
6. Colored legend and borders shall be applied by screening process with transparent colored ink, transparent colored overlay film or colored sheeting to white background sheeting, or combination thereof.
7. Route markers and other attachments within the parent sign face shall be direct applied unless otherwise specified in the plans. Attachments not direct applied shall use 0.063 inch thick one piece sheet aluminum signs (Type A).
8. General Service Plaques shall be 0.080 inch thick and Routing Plaques shall be 0.100 inch thick.
9. The priority for Routing Plaques shall be (left to right) Hazardous Material, Airport then Hospital. See examples for mounting location.
10. Mounting details of attachments to parent signs face are shown on Standard Plan Sheet TSR(5). Mounting details of sign plaque attachments above and below parent sign are shown in the "SMD series" Standard Plan Sheets.
11. Plaques shall be horizontally centered at the top of the parent sign. If an exit number panel exists, the plaque shall be centered between the edge of the parent sign and the edge of the exit number panel. The plaque may be placed above the exit number panel when there is insufficient space.

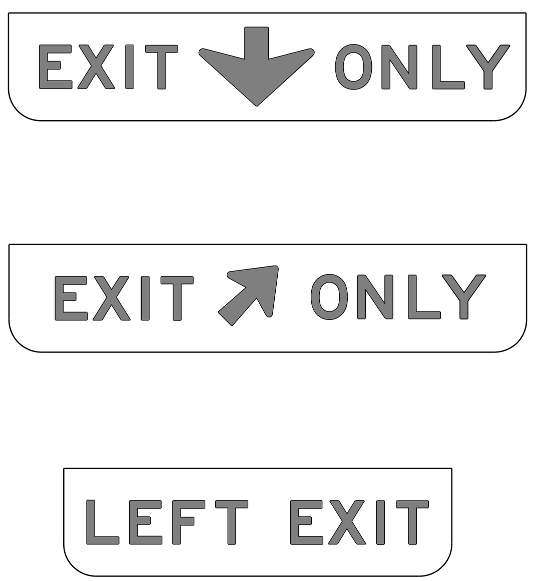


TYPICAL EXAMPLES

REQUIREMENTS FOR EXIT ONLY AND LEFT EXIT PANELS

DEPARTMENTAL MATERIAL SPECIFICATIONS	
ALUMINUM SIGN BLANKS	DMS-7110
SIGN FACE MATERIALS	DMS-8300

SHEETING REQUIREMENTS FOR OVERHEAD EXIT PANELS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	FLUORESCENT YELLOW	TYPE B_{FL} OR C_{FL} SHEETING
LEGEND	BLACK	ACRYLIC NON-REFLECTIVE FILM



TYPICAL EXAMPLES

GENERAL NOTES

1. Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign tabulation sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD). Individual panel sizes shown in the plans may be adjusted to fit actual parent sign sizes if necessary.
2. Exit Panel legend shall use the Federal Highway Administration (FHWA)Standard Highway Alphabets E Series.
3. 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.
4. Black legend shall be applied by screening process or cut-out acrylic non-reflective black film to yellow background sheeting, or combination thereof.
5. Exit Only and Left Exit panels within the parent sign face shall be direct applied unless otherwise specified in the plans. Panels not direct applied shall use 0.063 inch thick one piece sheet aluminum signs (Type A).
6. Mounting details of Exit Only and Left Exit panel attachments to parent signs face are shown on Standard Plan Sheet TSR(5).

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website.

http://www.txdot.gov/

DATE: 9/20/2023 7:04:51 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE...

Texas Department of Transportation
Traffic Operations Division Standard

TYPICAL SIGN REQUIREMENTS

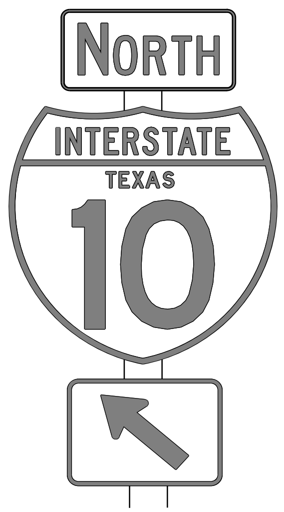
TSR(2)-13

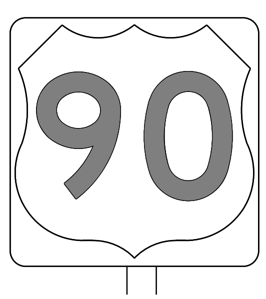
FILE: tsr2-13.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT October 2003	CONT	SECT	JOB	HIGHWAY
REVISIONS	0904	00	223	VARIOUS
12-03 7-13	DIST		COUNTY	SHEET NO.
9-08	AMA		POTTER	134

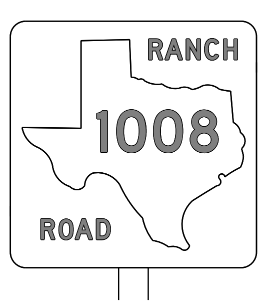
2

REQUIREMENTS FOR INDEPENDENT MOUNTED ROUTE SIGNS

SHEETING REQUIREMENTS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	WHITE	TYPE A SHEETING
BACKGROUND	ALL OTHERS	TYPE B OR C SHEETING
LEGEND & BORDERS	WHITE	TYPE A SHEETING
LEGEND & BORDERS	BLACK	ACRYLIC NON-REFLECTIVE FILM
LEGEND & BORDERS	ALL OTHERS	TYPE B or C SHEETING



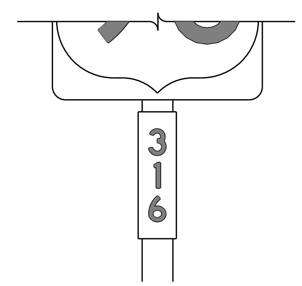


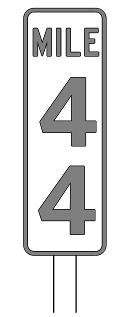


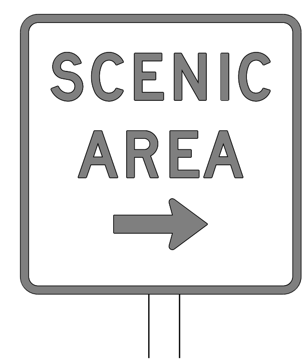
TYPICAL EXAMPLES

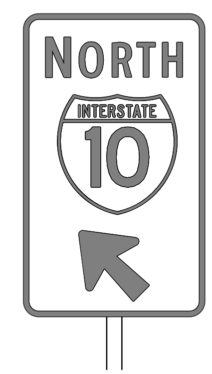
REQUIREMENTS FOR BLUE, BROWN & GREEN D AND I SERIES GUIDE SIGNS

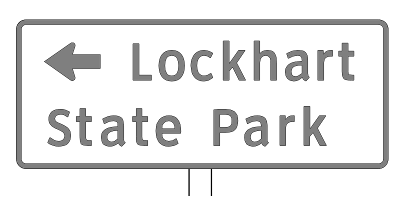
SHEETING REQUIREMENTS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	ALL	TYPE B OR C SHEETING
LEGEND & BORDERS	WHITE	TYPE D SHEETING
LEGEND, SYMBOLS & BORDERS	ALL OTHERS	TYPE B OR C SHEETING

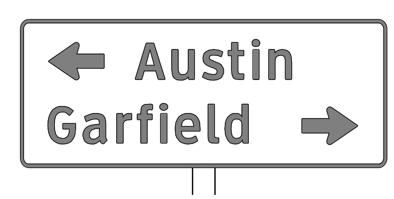












TYPICAL EXAMPLES

GENERAL NOTES

1. Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign tabulation sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD).

2. White legend shall use the Clearview Alphabet. The following Clearview fonts shall be used to replace the existing white Federal Highway Administration (FHWA) Standard Highway Alphabets, when not specified in the SHSD, or in the plans.

B	CV-1W
C	CV-2W
D	CV-3W
E	CV-4W
Emod	CV-5WR
F	CV-6W

3. Route sign legend (ie. IH, US, SH and FM shields) shall use the Federal Highway Administration (FHWA) Standard Highway Alphabets B, C, D, E, Emod or F).

4. 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.

5. Independent mounted route sign with white or colored legend and borders shall be applied by screening process with transparent color ink, transparent colored overlay film to white background sheeting or cut-out white sheeting to colored background sheeting, or combination thereof. White legend, symbols and borders on all other signs shall be cut-out white sheeting applied to colored background sheeting.

6. Information regarding borders and radii for signs is found in the "Standard Highway Sign Designs for Texas". Dimensions shown and described for borders and corner radii on parent sign are nominal. Borders may vary in width as much as 1/2 inch. Corner radii above 3 inches may vary in width as much as 1 inch. Borders and corner radii within a parent sign must be of matching widths. The sign area outside the corner radius should be trimmed or rounded.

7. Sign substrate shall be any material that meets the Departmental Material Specification requirements of DMS-7110 or approved alternative.

8. Mounting details of roadside signs are shown in the "SMD series" Standard Plan Sheets.

DEPARTMENTAL MATERIAL SPECIFICATIONS	
ALUMINUM SIGN BLANKS	DMS-7110
SIGN FACE MATERIALS	DMS-8300

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

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website.

http://www.txdot.gov/

Texas Department of Transportation

Traffic Operations Division Standard

TYPICAL SIGN REQUIREMENTS

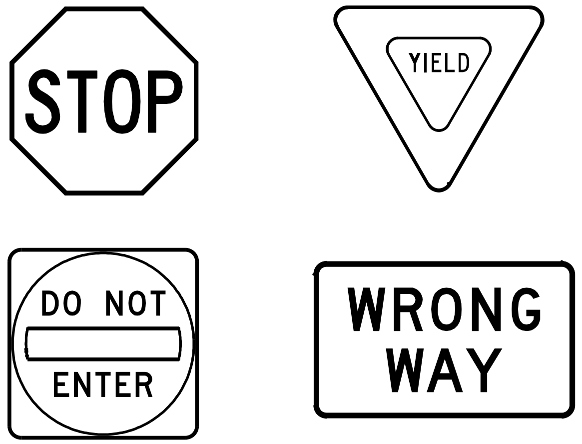
TSR(3)-13

FILE: tsr3-13.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT October 2003	CONT	SECT	JOB	HIGHWAY
REVISIONS	0904	00	223	VARIOUS
12-03 7-13 9-08	DIST		COUNTY	SHEET NO.
	AMA		POTTER	135

3

REQUIREMENTS FOR RED BACKGROUND REGULATORY SIGNS

(STOP, YIELD, DO NOT ENTER AND WRONG WAY SIGNS)



REQUIREMENTS FOR FOUR SPECIFIC SIGNS ONLY

SHEETING REQUIREMENTS		
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

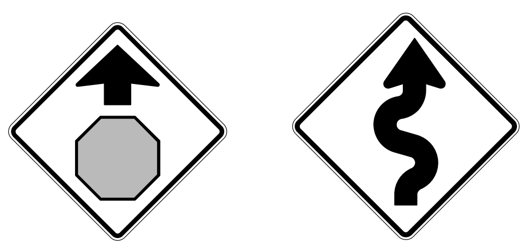
REQUIREMENTS FOR WHITE BACKGROUND REGULATORY SIGNS

(EXCLUDING STOP, YIELD, DO NOT ENTER AND WRONG WAY SIGNS)

TYPICAL EXAMPLES

SHEETING REQUIREMENTS		
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

REQUIREMENTS FOR WARNING SIGNS



TYPICAL EXAMPLES

SHEETING REQUIREMENTS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	FLOURESCENT YELLOW	TYPE B_{FL} OR C_{FL} SHEETING
LEGEND & BORDERS	BLACK	ACRYLIC NON-REFLECTIVE FILM
LEGEND & SYMBOLS	ALL OTHER	TYPE B OR C SHEETING

REQUIREMENTS FOR SCHOOL SIGNS

TYPICAL EXAMPLES

SHEETING REQUIREMENTS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	WHITE	TYPE A SHEETING
BACKGROUND	FLOURESCENT YELLOW GREEN	TYPE B_{FL} OR C_{FL} SHEETING
LEGEND, BORDERS AND SYMBOLS	BLACK	ACRYLIC NON-REFLECTIVE FILM
SYMBOLS	RED	TYPE B OR C SHEETING

GENERAL NOTES

1. Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign tabulation sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD).
2. Sign legend shall use the Federal Highway Administration (FHWA) Standard Highway Alphabets (B, C, D, E, Emod or F).
3. 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.
4. Black legend and borders shall be applied by screening process or cut-out acrylic non-reflective black film to background sheeting, or combination thereof.
5. White legend and borders shall be applied by screening process with transparent colored ink, transparent colored overlay film to white background sheeting or cut-out white sheeting to colored background sheeting, or combination thereof.
6. Colored legend shall be applied by screening process with transparent colored ink, transparent colored overlay film or colored sheeting to background sheeting, or combination thereof.
7. Sign substrate shall be any material that meets the Departmental Material Specification requirements of DMS-7110 or approved alternative.
8. 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/

Texas Department of Transportation — Traffic Operations Division Standard

TYPICAL SIGN REQUIREMENTS

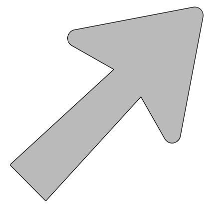
TSR(4)-13

FILE: tsr4-13.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT October 2003	CONT	SECT	JOB	HIGHWAY
REVISIONS 12-03 7-13 9-08	0904	00	223	VARIOUS
	DIST		COUNTY	SHEET NO.
	AMA		POTTER	136

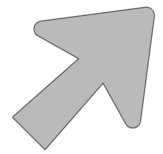
DATE: 9/20/2023 7:04:52 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\...

ARROW DETAILS

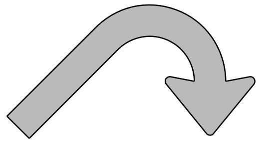
for Large Ground-Mounted and Overhead Guide Signs



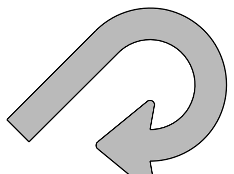
Type A



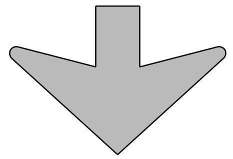
Type B



E-3



E-4



Down Arrow

TYPE	LETTER SIZE	USE
A-1	10.67" U/L and 10" Caps	Single Lane Exits
A-2	13.33" U/L and 12" Caps	
A-3	16" & 20" U/L	
B-1	10.67" U/L and 10" Caps	Multiple Lane Exits
B-2	13.33" U/L and 12" Caps	
B-3	16" & 20" U/L	

CODE	USED ON SIGN NO.
E-3	E5-1aT
E-4	E5-1bT

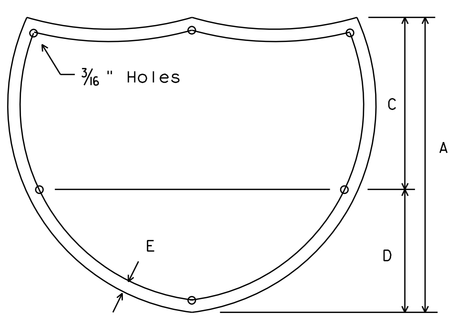
NOTE

Arrow dimensions are shown in the "Standard Highway Sign Designs for Texas" manual.

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website.

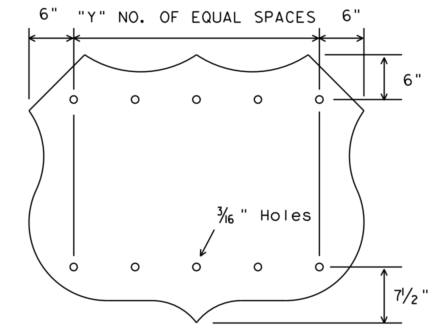
http://www.txdot.gov/

SIGN BLANK PUNCHING DETAILS FOR ATTACHMENTS WHEN SPECIFIED TO BE TYPE A ALUMINUM SIGNS (FOR MOUNTING TO GUIDE SIGN FACE)



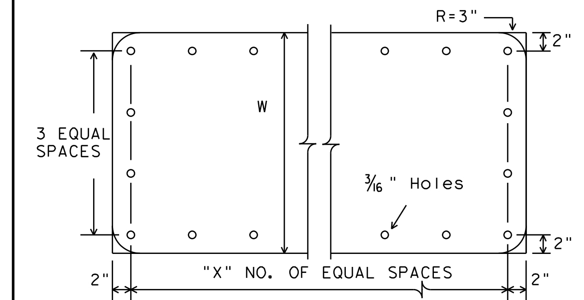
INTERSTATE ROUTE MARKERS

A	C	D	E
36	21	15	1 1/2
48	28	20	1 3/4



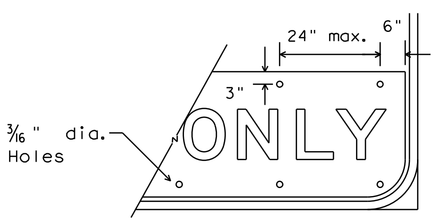
U.S. ROUTE MARKERS

Sign Size	"Y"
24x24	2
30x24	3
36x36	3
45x36	4
48x48	4
60x48	5



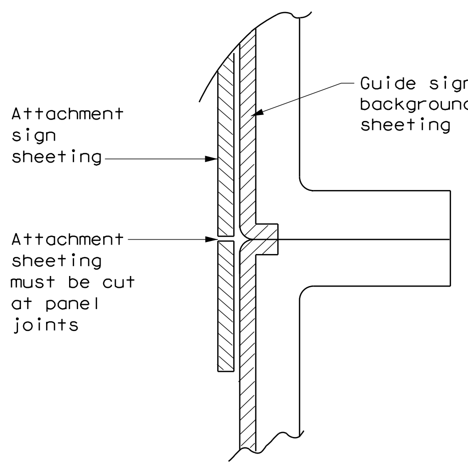
STATE ROUTE MARKERS

No. of Digits	W	X
4	24	4
4	36	5
4	48	6
3	24	3
3	36	4
3	48	5

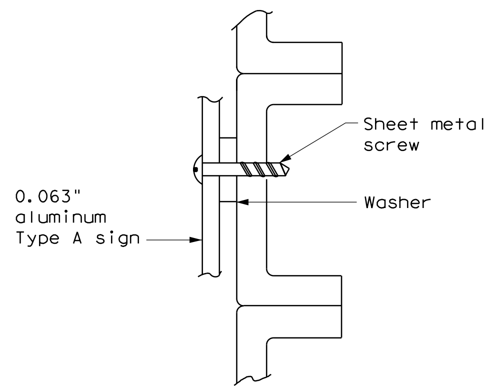


EXIT ONLY PANEL

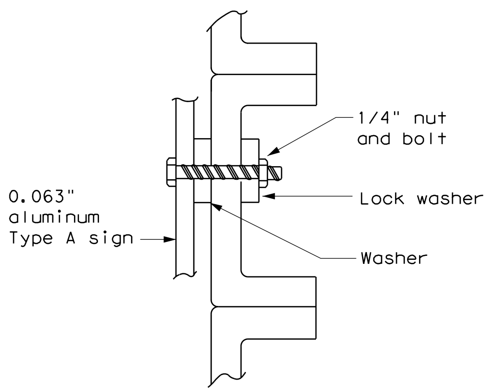
MOUNTING DETAILS OF ATTACHMENTS TO GUIDE SIGN FACE ("EXIT ONLY" AND "LEFT EXIT" PANELS, ROUTE MARKERS AND OTHER ATTACHMENTS)



DIRECT APPLIED ATTACHMENT



SCREW ATTACHMENT



NUT/BOLT ATTACHMENT

NOTE:

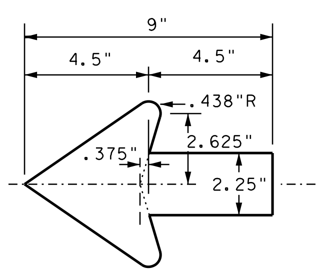
1. Sheeting for legend, symbols, and borders must be cut at panel joints.
2. Direct applied attachment signs will be subsidiary to "Aluminum Signs" or "Fiberglass Signs".

NOTE:

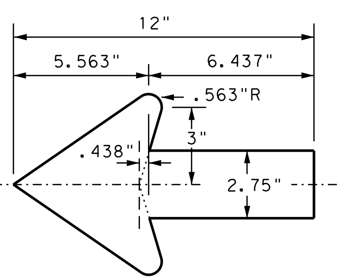
Furnish Type A aluminum sign attachments only when specified in the plans. These signs will be paid for under "Aluminum Signs".

ARROW DETAILS

for Destination Signs (Type D)



Standard arrow to be used with 6 inch letters.



Standard arrow to be used with 8 inch letters.

Texas Department of Transportation

Traffic Operations Division Standard

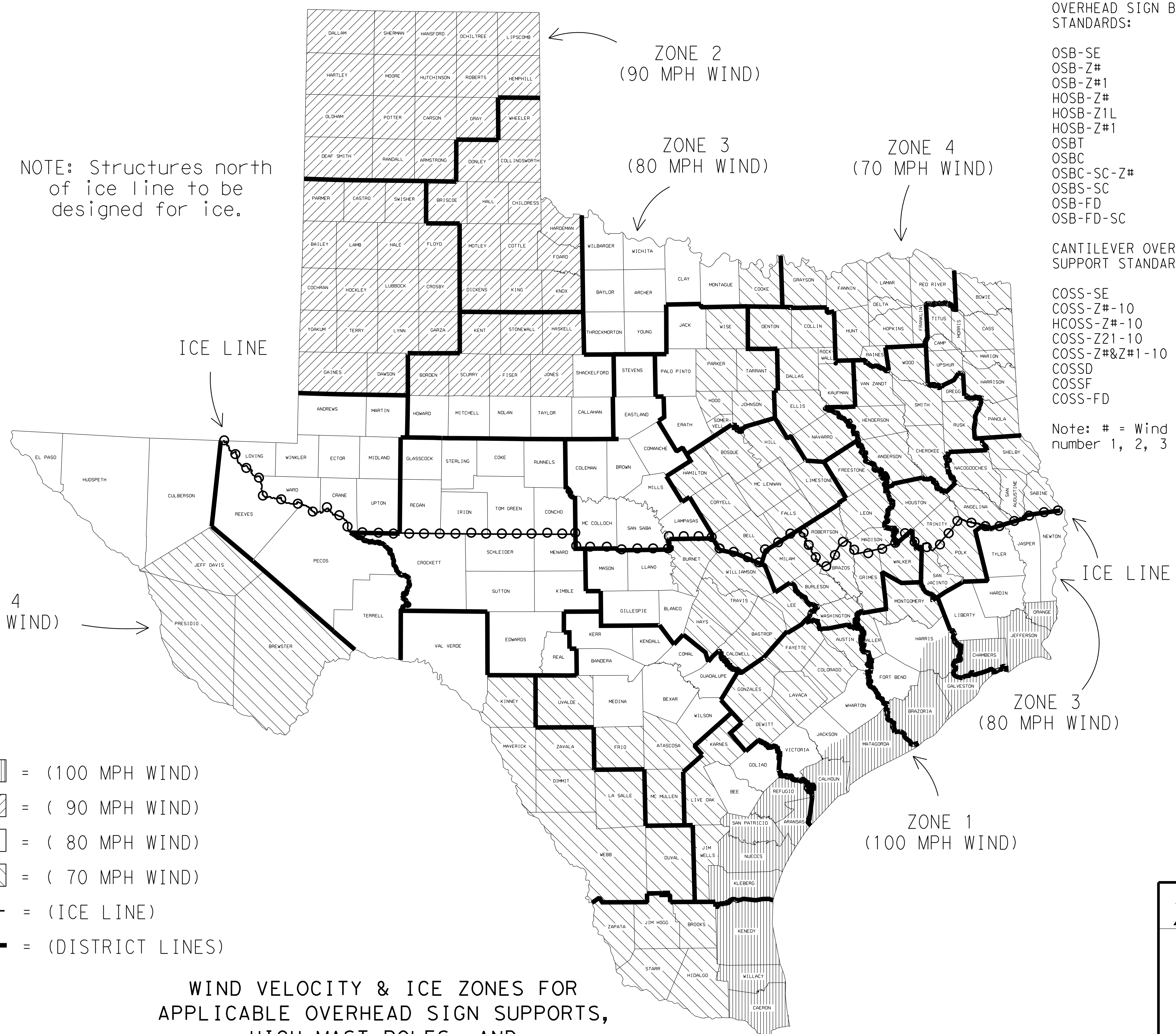
TYPICAL SIGN REQUIREMENTS

TSR(5)-13

FILE: tsr5-13.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT October 2003	CONT 0904	SECT 00	JOB 223	HIGHWAY VARIOUS
REVISIONS 12-03 7-13 9-08	DIST AMA		COUNTY POTTER	SHEET NO. 137

DATE: 9/20/2023 7:04:52 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE

DATE: 9/20/2023 7:04:52 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\[illegible]



LEGEND

ZONE 1 - = (100 MPH WIND)

ZONE 2 - = (90 MPH WIND)

ZONE 3 - = (80 MPH WIND)

ZONE 4 - = (70 MPH WIND)

= (ICE LINE)

= (DISTRICT LINES)

WIND VELOCITY & ICE ZONES FOR APPLICABLE OVERHEAD SIGN SUPPORTS, HIGH MAST POLES, AND TRAFFIC SIGNAL POLES

Based on 50 Year Mean Recurrence Interval of Fastest Mile Wind Velocity at 33 feet height.

APPLICABLE STANDARDS SHEETS

OVERHEAD SIGN BRIDGE STANDARDS:

OSB-SE
OSB-Z#
OSB-Z#1
HOSB-Z#
HOSB-Z1L
HOSB-Z#1
OSBT
OSBC
OSBC-SC-Z#
OSBS-SC
OSB-FD
OSB-FD-SC

CANTILEVER OVERHEAD SIGN SUPPORT STANDARDS:

COSS-SE
COSS-Z#-10
HCOSS-Z#-10
COSS-Z21-10
COSS-Z#&Z#1-10
COSSD
COSSF
COSS-FD

Note: # = Wind Zone number 1, 2, 3 or 4

HIGH MAST ILLUMINATION POLE STANDARDS:

HMIP-98
HMIF-98

WALKWAYS AND BRACKETS STANDARDS:

SWW
SB(SWL-1)

TRAFFIC SIGNAL POLE STANDARDS:

SP-80
SP-100
SMA-80
SMA-100
DMA-80
DMA-100
MA-C
MAC(ILSN)
MAD-D
TS-FD
LUM-A
CFA
LMA
TS-C
MA-DPD

FOR HARRIS CO. ONLY
Zone line is just North of US 90, around on the North, West and South sides of IH 610 and down the West side of SH 288.

FOR JACKSON CO. ONLY
Zone line is just North of SH 616.

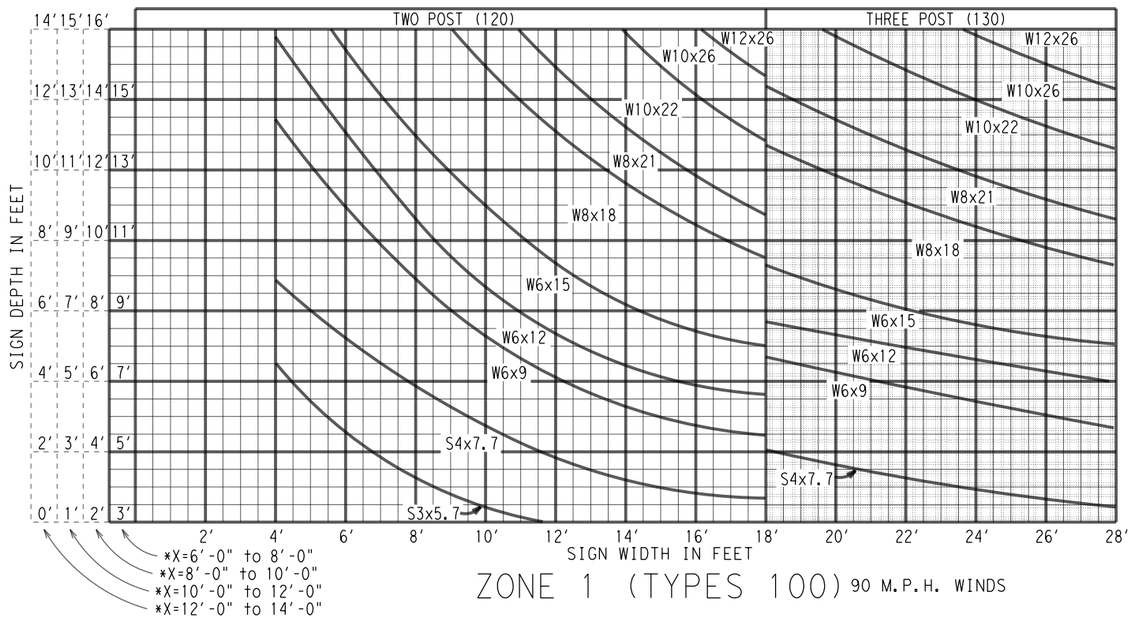
Texas Department of Transportation | Traffic Operations Division Standard

WIND VELOCITY AND ICE ZONES

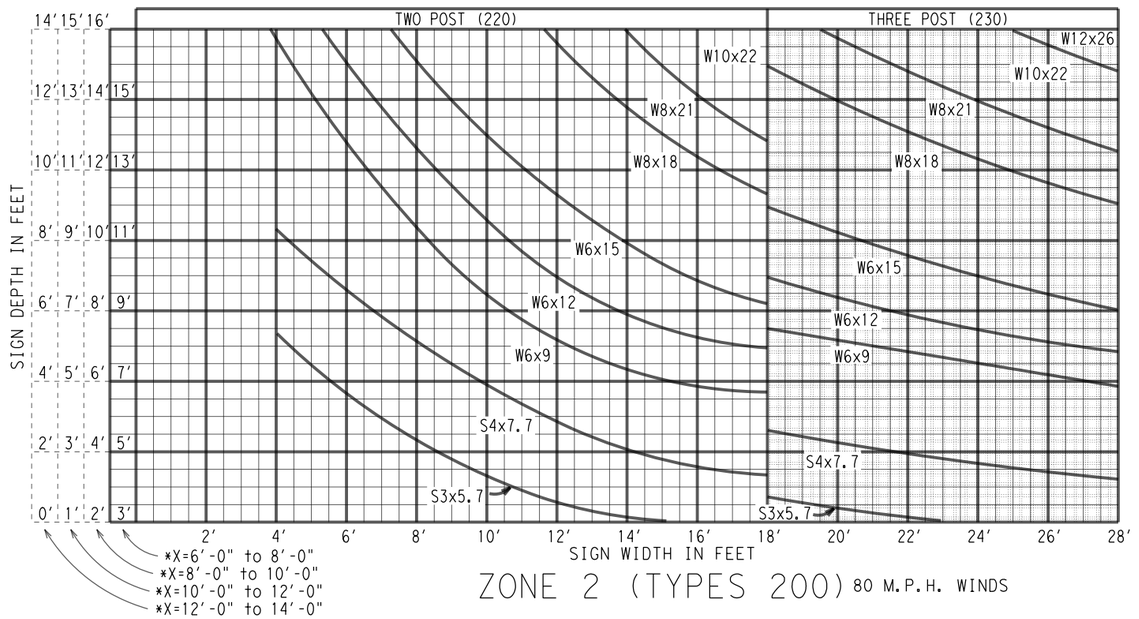
WV & IZ-14

FILE: windice.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT April 1996	CONT	SECT	JOB	HIGHWAY
REVISIONS 8-14-Added list of applicable standards, restricting use to structures designed for Fastest Mile wind speeds.	0904	00	223	VARIOUS
	DIST		COUNTY	SHEET NO.
	AMA		POTTER	138

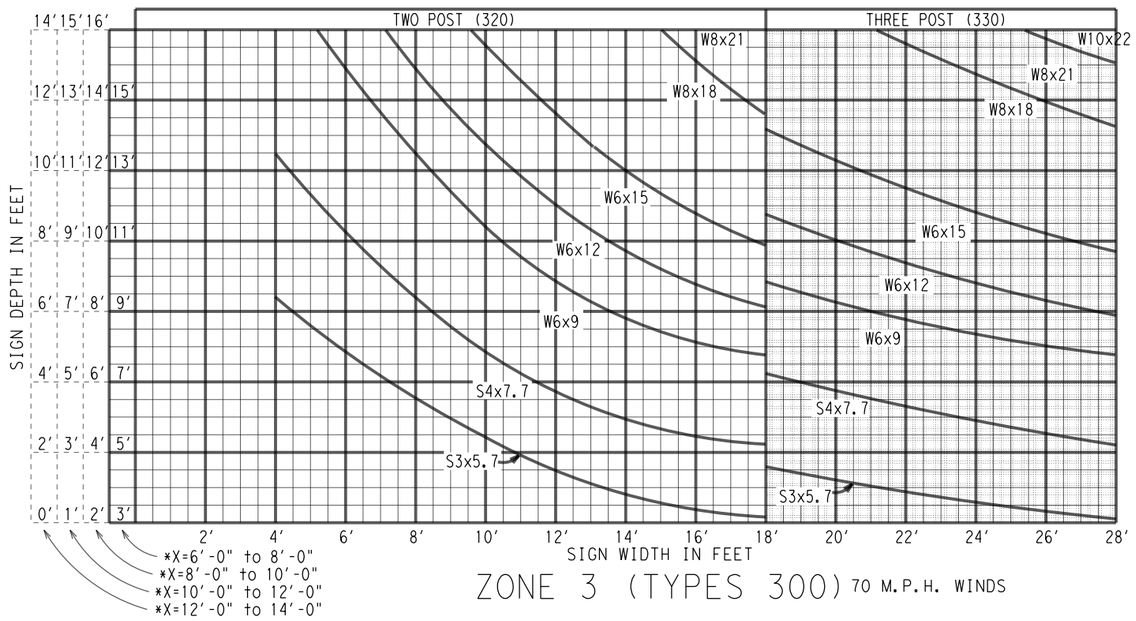
DATE: 9/20/2023 7:04:53 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03*ROADWAY\STD\sms08-08.dgn



ZONE 1 (TYPES 100) 90 M.P.H. WINDS



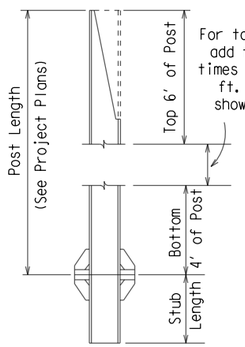
ZONE 2 (TYPES 200) 80 M.P.H. WINDS



ZONE 3 (TYPES 300) 70 M.P.H. WINDS

* NOTE: "X" EQUALS THE AVERAGE HEIGHT FROM THE GROUND LINE TO THE BOTTOM EDGE OF THE SIGN.

SHADED AREA DENOTES 3 POST SUPPORTS



POST WEIGHT DATA

POST SIZE	WEIGHT OF ONE POST (#)	WEIGHT OF TWO POSTS (#)	WEIGHT OF THREE POSTS (#)
W6x9*	123.2	246.4	369.6
W6x12*	160.3	320.6	480.9
W6x15*	167.8	335.6	503.4
W8x18*	201.8	403.6	605.4
W8x21*	254.7	509.4	764.1
W10x22*	266.0	532.0	798.0
W10x26*	308.0	616.0	924.0
W12x26*	308.6	617.2	925.8
S3x5.7*	85.9	171.8	257.7
S4x7.7*	112.2	224.4	336.6

*LAST FIGURES=POST WT. PER FT.

Weight Data is the weight of items shown for one, two or three posts - (includes top 6' of post, bottom 4' of post, post foundation stub, related base connection plates and stiffeners, friction fuse plate and all high strength bolts, nuts and washers).

SIGN TYPE

SIGN TYPE 1 3 0

- 1: Wind Design Zone
- 3: Series No.
- 0: No. of Posts
  - 0 Aluminum/Fiberglass
  - 1 Aluminum
  - 2 Fiberglass

Note: Footings for S3x5.7 and S4x7.7 post sizes shall be non-reinforced with Class A concrete, while footing for all other post sizes shall be reinforced with Class C concrete.

Texas Department of Transportation
Traffic Operations Division

LARGE ROADSIDE SIGN SUPPORTS
POST SELECTION
WORKSHEET
SMD(8W1)-08

DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT

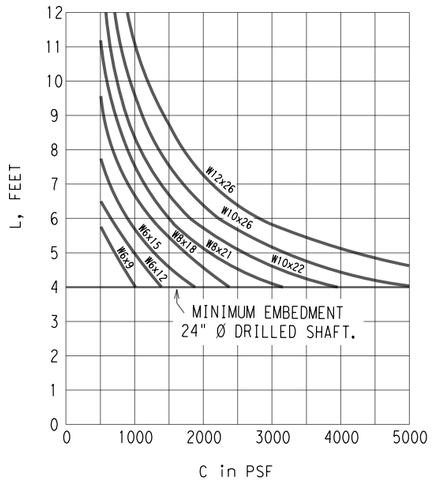
REVISIONS
1-82
5-01
9-08

CONT	SECT	JOB	HIGHWAY
0904	00	223	VARIOUS

DIST	COUNTY	SHEET NO.
AMA	POTTER	139

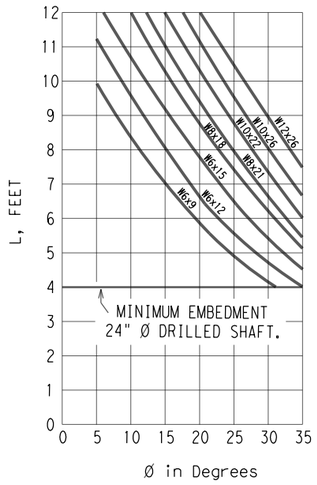
DATE: 9/20/2023 7:04:54 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03*ROADWAY\STD\smd8-08.dgn

I



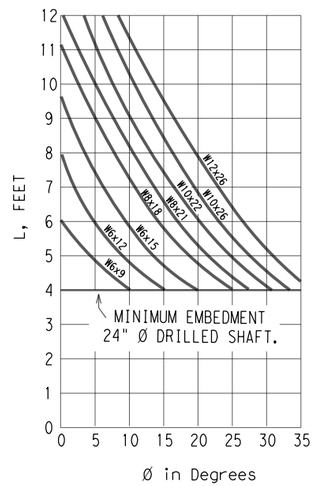
Ø = 0 Degrees

II



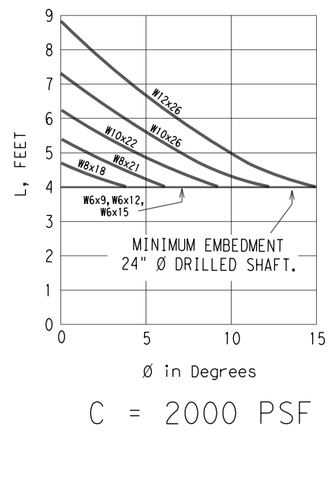
C = 0 PSF

III



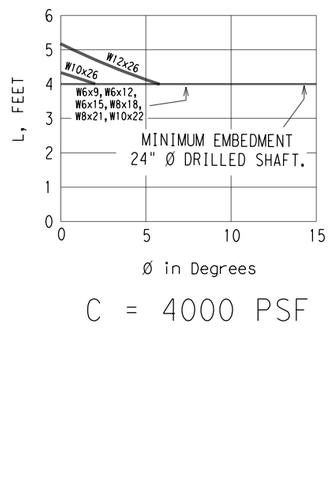
C = 500 PSF

IV



C = 2000 PSF

V



C = 4000 PSF

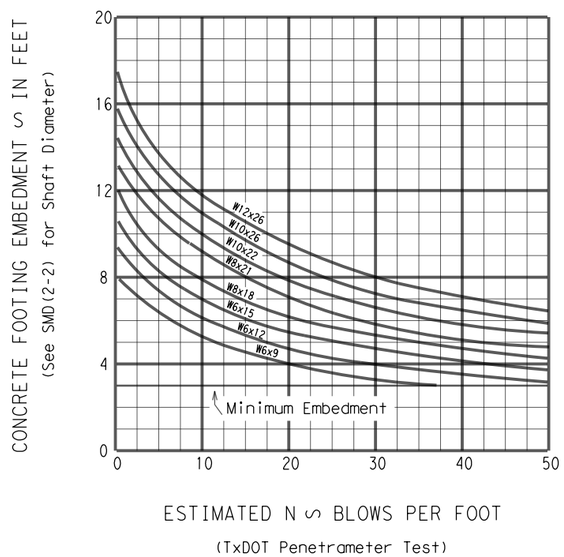
DRILLED CONCRETE FOOTING DEPTH CHART
(COHFRIC DESIGN)

NOTE: THESE CHARTS MAY BE USED AS AN ALTERNATE TO THE CHART BELOW, PROVIDED THAT SOIL COHESION AND INTERNAL FRICTION (COHFRIC) DATA ARE AVAILABLE.

LEGEND:

L = Required embedment of concrete drilled shaft, in feet
C = Cohesive shear strength of soil, in psf
Ø = Angle of internal friction of soil, in degrees

For values of C and Ø which are intermediate to those on the charts, embedments may be determined by straight - line interpolation.



DRILLED CONCRETE FOOTING DEPTH CHART
(TxDOT PENETROMETER DESIGN)

NOTE: ESTIMATED N SHOULD BE BASED AT APPROXIMATELY THE UPPER ONE-THIRD POINT OF THE DRILLED CONCRETE FOOTING BELOW THE GROUND LINE

Note:
1. Curves shown on this sheet are applicable for reinforced concrete footings only.

Texas Department of Transportation
Traffic Operations Division

LARGE ROADSIDE SIGN SUPPORTS FOUNDATION WORKSHEET SMD(8W2)-08

DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT

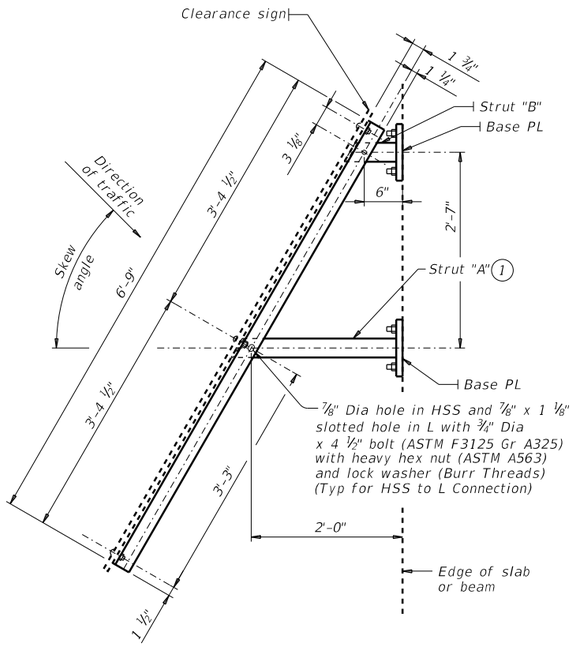
REVISIONS
5-74
4-78
9-08

CONT	SECT	JOB	HIGHWAY
0904	00	223	VARIOUS

DIST	COUNTY	SHEET NO.
AMA	POTTER	140

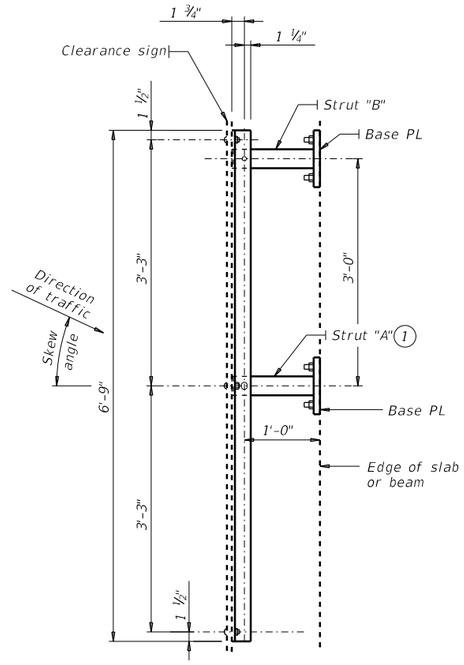
29B

DATE: 9/20/2023 7:04:54 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amar1110\PROJECTS\PACKAGE 3\CADD\DGN\03_ROADWAY\STD\MS-BMCS-19.dgn



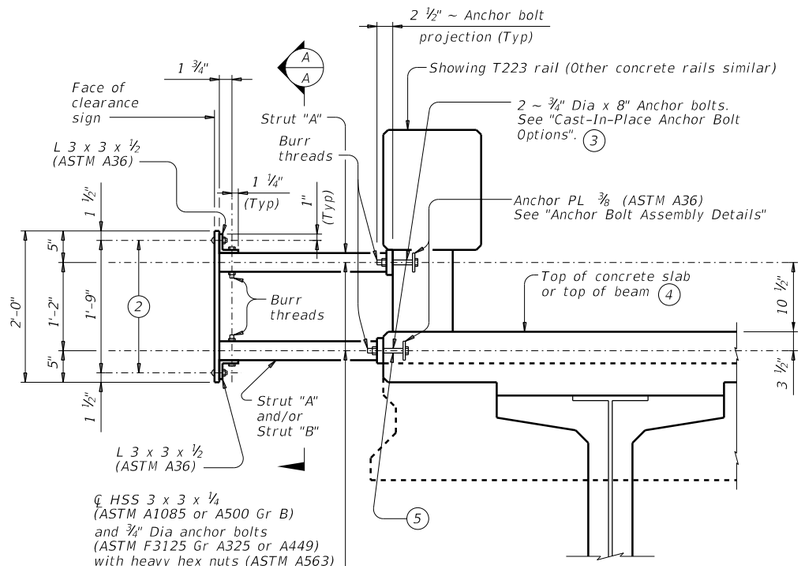
PLAN OF TYPE S MOUNT

(Used for skews over 30°)

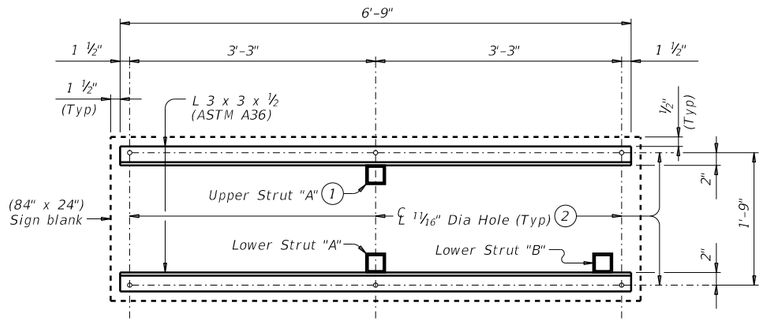


PLAN OF TYPE N MOUNT

(Used for 0° to 30° skews)



SECTION



SECTION A-A

1. Locate centerline of Strut A no closer than 12" from a vertical concrete edge.
2. ℄ ⅝" Dia x 2" Hexagon socket button head cap screws (ASTM A574) with hex nuts. Attach hex nuts to L 3 x 3 x ½ by tack welding in two places. Threads must have Class 3A fit tolerance in accordance ASME B1.1. Six screws required.
3. At the Contractor's option fully threaded adhesive anchors may be use instead of cast-in-place anchor bolts. Expansion anchors are not allowed. Provide adhesive anchors that are ¾" Dia ASTM A193 Gr B7 or F1554 Gr 105 fully threaded rods with one hardened steel washer (ASTM F436) and one regular lock washer placed under heavy hex nut (ASTM A563). Embed fully threaded rods using a Type III, Class C, D, E, or F anchor adhesive. Adhesive anchor embedment depth is 8". Anchor adhesive chosen must be able to achieve a factored bond strength in tension of 2.2 kips per anchor (edge distance and spacing must be accounted for). Submit signed and sealed calculations or the manufacturer's published literature showing the proposed anchor adhesive's ability to develop this load to the Engineer for approval prior to use. Anchor installation, including hole size, drilling, and clean out, must be in accordance with Item 450, "Railing".
4. For decked slab beams topped with a 2 course surface treatment and ACP overlay.
5. Anchor bolts to be cast into decked slab beams topped with a 2 course surface treatment or ACP overlay. Anchor bolts with heavy hex nuts, regular lock washers, hardened washers and anchor plate that is embedded in the beam will be provided by the beam Fabricator.

CONSTRUCTION NOTES:

Install the vertical face of clearance sign plumb unless otherwise approved by the Engineer.

Test adhesive anchors in accordance with Item 450.3.3, "Tests". Test 1 anchor per bridge mounted clearance sign installed. Perform corrective measures to provide adequate capacity if any of the tests do not meet the required test load. Repair damage from testing as directed.

MATERIAL NOTES:

Galvanize all steel components after fabrication unless otherwise noted.

GENERAL NOTES:

This standard provides details to mount a vertical clearance sign (84" x 24") to bridges. Rail Types T631, T631LS, PR11, PR22 and PR3 are not accommodated.

The Engineer will furnish the clearance to be shown on the sign.

See Bridge Layout for sign location and mounting type (Type N or S).

Cost of furnishing, installing, relocating or removing a clearance sign, including structural steel for sign mount, is included in unit price bid for Item 644, "Small Roadside Sign Assemblies".

One Sign Blank (84" x 24") is 14 SF.

Average steel weight for one complete Type N Mount is 219 Lb.

Average steel weight for one complete Type S Mount is 233 Lb.

SHEET 1 OF 3

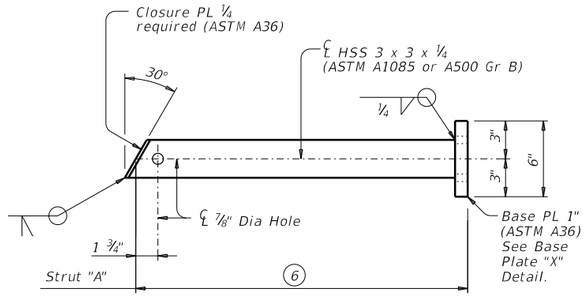
Texas Department of Transportation | Bridge Division Standard

BRIDGE MOUNTED CLEARANCE SIGN ASSEMBLY

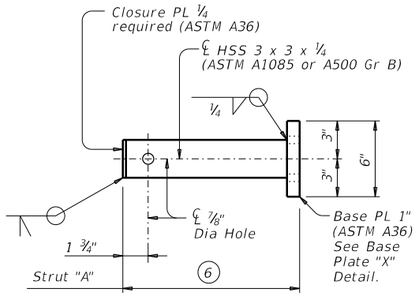
BMCS

FILE:	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT April 2019	CONT	SECT	JOB	HIGHWAY
REVISIONS	0904	00	223	VARIOUS
	DIST	COUNTY		SHEET NO.
	AMA	POTTER		141

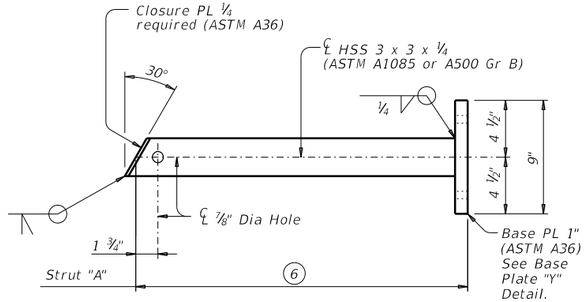
DATE: 9/20/2023 7:04:55 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\03_ROADWAY\STD\MS-BMCS-19.dgn



FOR T411 AND C411 RAIL TYPES



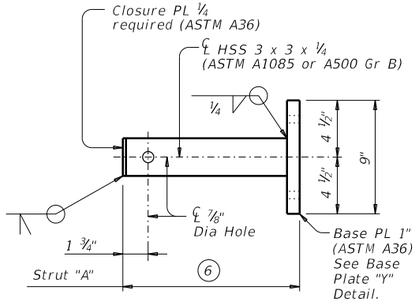
FOR T411 AND C411 RAIL TYPES



FOR T221, C221, T222, T223, C223, T401, T402, C402, T551, T552, T80HT, T80SS AND SSTR RAIL TYPES

UPPER STRUT DETAIL FOR (TYPE S MOUNT)

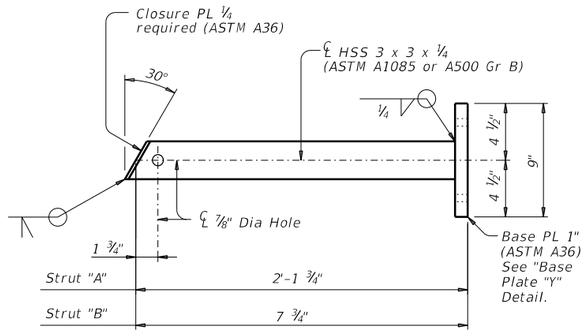
(Used for skews over 30°)



FOR T221, C221, T222, T223, C223, T401, T402, C402, T551, T552, T80HT, T80SS AND SSTR RAIL TYPES

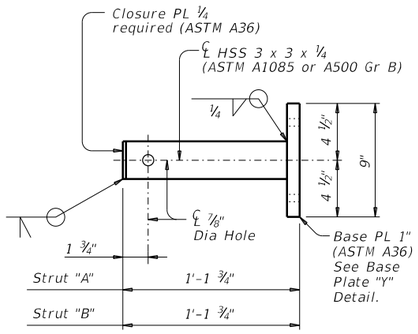
UPPER STRUT DETAIL FOR (TYPE N MOUNT)

(Used for 0° to 30° skews)



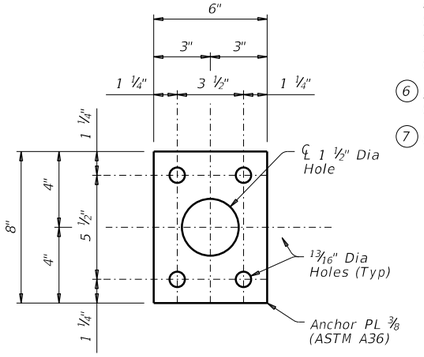
LOWER STRUT DETAILS FOR (TYPE S MOUNT)

(Used for skews over 30°)

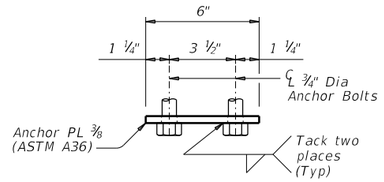


LOWER STRUT DETAILS FOR (TYPE N MOUNT)

(Used for 0° to 30° skews)



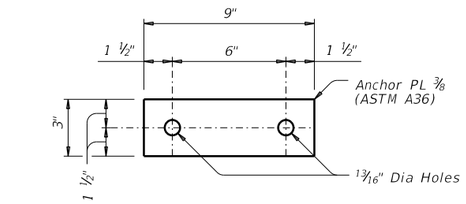
PLAN OF ANCHOR PLATE



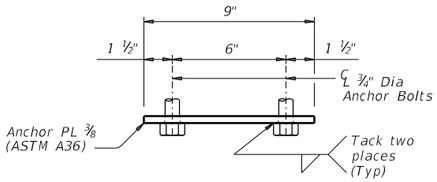
ELEVATION

ANCHOR BOLT ASSEMBLY DETAILS (3)

(Used on Base Plate "X" with T411 and C411 rail types.)



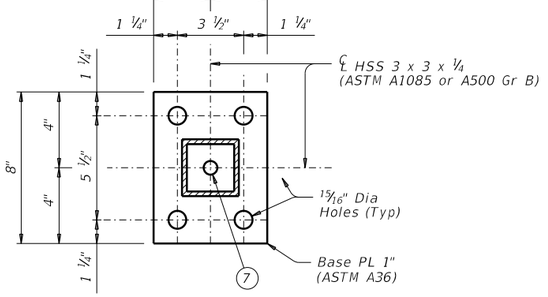
PLAN OF ANCHOR PLATE



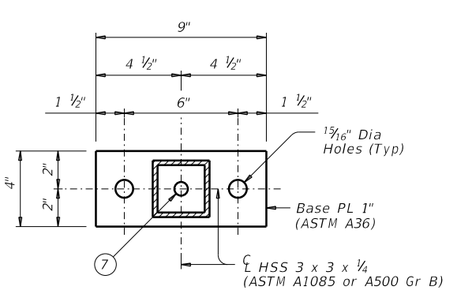
ELEVATION

ANCHOR BOLT ASSEMBLY DETAILS (3)

(Used on Base Plate "Y" and with T1F, T2P, C2P, T1W, C1W, T66 and C66 rail types.)

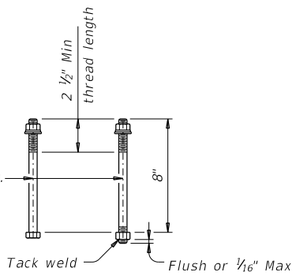


BASE PLATE "X" DETAIL



BASE PLATE "Y" DETAIL

℄ ¾" Dia heavy hex head anchor bolt (ASTM F3125 Gr A325 or A449) or threaded rod (ASTM A193 Gr B7 or F1554 Gr 105) with one hardened washer and one regular lock washer placed under heavy hex nut (ASTM A563). Furnish one additional heavy hex nut for each threaded rod.



CAST-IN-PLACE ANCHOR BOLT OPTIONS (3)

(3) At the Contractor's option fully threaded adhesive anchors may be use instead of cast-in-place anchor bolts. Expansion anchors are not allowed. Provide adhesive anchors that are ¾" Dia ASTM A193 Gr B7 or F1554 Gr 105 fully threaded rods with one hardened steel washer (ASTM F436) and one regular lock washer placed under heavy hex nut (ASTM A563). Embed fully threaded rods using a Type III, Class C, D, E, or F anchor adhesive. Adhesive anchor embedment depth is 8". Anchor adhesive chosen must be able to achieve a factored bond strength in tension of 2.2 kips per anchor (edge distance and spacing must be accounted for). Submit signed and sealed calculations or the manufacturer's published literature showing the proposed anchor adhesive's ability to develop this load to the Engineer for approval prior to use. Anchor installation, including hole size, drilling, and clean out, must be in accordance with Item 450, "Railing".

(6) Adjust length to accommodate edge of slab to back of rail for specific project conditions and to help plumb the vertical face of clearance sign.

(7) Hole required to drain zinc from base plate during galvanizing.

Texas Department of Transportation

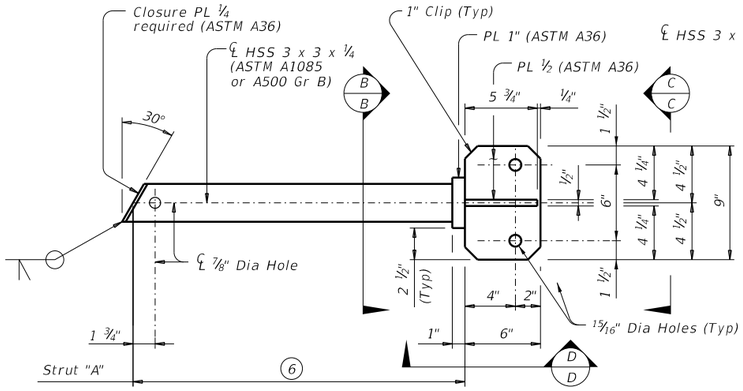
Bridge Division Standard

BRIDGE MOUNTED CLEARANCE SIGN ASSEMBLY

BMCS

FILE:	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT April 2019 REVISIONS	CONT	SECT	JOB	HIGHWAY
	0904	00	223	VARIOUS
	DIST	COUNTY		SHEET NO.
	AMA	POTTER		142

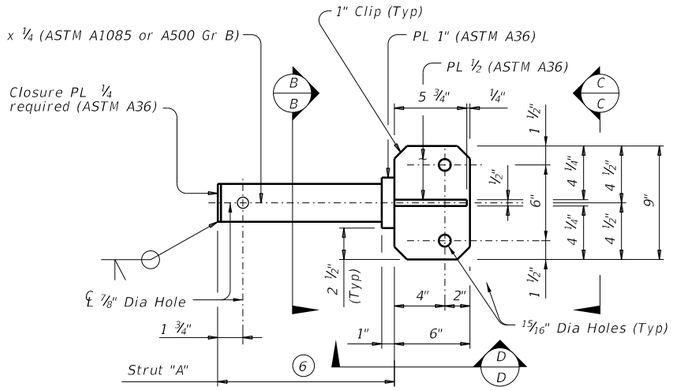
DATE: 9/20/2023 7:04:55 PM
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-91DP5101\WA4-TxDOT Amar111\PROJECTS\PACKAGE 3\CADD\DGN\03_ROADWAY\STD\MS-BMCS-19.dgn



FOR T1F, T2P, C2P, T1W, C1W, T66 AND C66 RAIL TYPES

UPPER STRUT DETAIL FOR (TYPE S MOUNT)

(Used for skews over 30°)



FOR T1F, T2P, C2P, T1W, C1W, T66 AND C66 RAIL TYPES

UPPER STRUT DETAIL FOR (TYPE N MOUNT)

(Used for 0° to 30° skews)

(2) ℄ ⅜" Dia x 2" Hexagon socket button head cap screws (ASTM A574) with hex nuts. Attach hex nuts to L 3 x 3 x ½ by tack welding in two places. Threads must have Class 3A fit tolerance in accordance ASME B1.1. Six screws required.

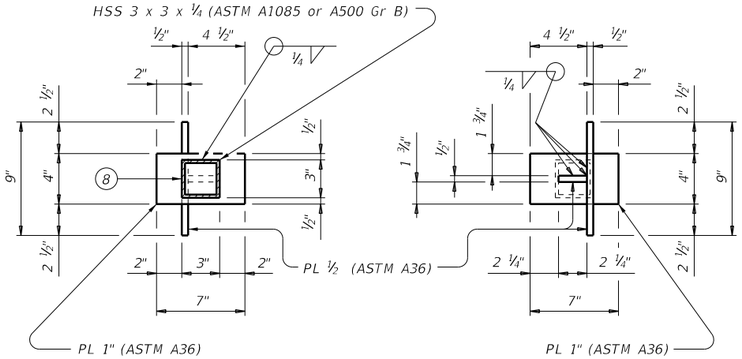
(3) At the Contractor's option fully threaded adhesive anchors may be use instead of cast-in-place anchor bolts. Expansion anchors are not allowed. Provide adhesive anchors that are ¾" Dia ASTM A193 Gr B7 or F1554 Gr 105 fully threaded rods with one hardened steel washer (ASTM F436) and one regular lock washer placed under heavy hex nut (ASTM A563). Embed fully threaded rods using a Type III, Class C, D, E, or F anchor adhesive. Adhesive anchor embedment depth is 8". Anchor adhesive chosen must be able to achieve a factored bond strength in tension of 2.2 kips per anchor (edge distance and spacing must be accounted for). Submit signed and sealed calculations or the manufacturer's published literature showing the proposed anchor adhesive's ability to develop this load to the Engineer for approval prior to use. Anchor installation, including hole size, drilling, and clean out, must be in accordance with Item 450, "Railing".

(4) For decked slab beams topped with a 2 course surface treatment and ACP overlay.

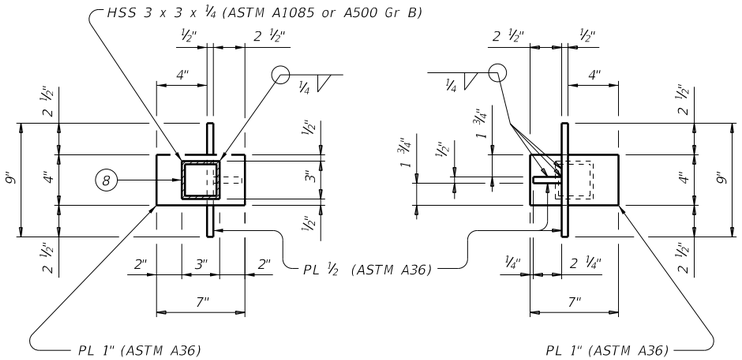
(6) Adjust length to accommodate edge of slab to back of rail for specific project conditions and to help plumb the vertical face of clearance sign.

(8) Hole required in bottom of HSS to drain zinc during galvanizing.

(9) 11" curb is for structures with 2" ACP overlay.



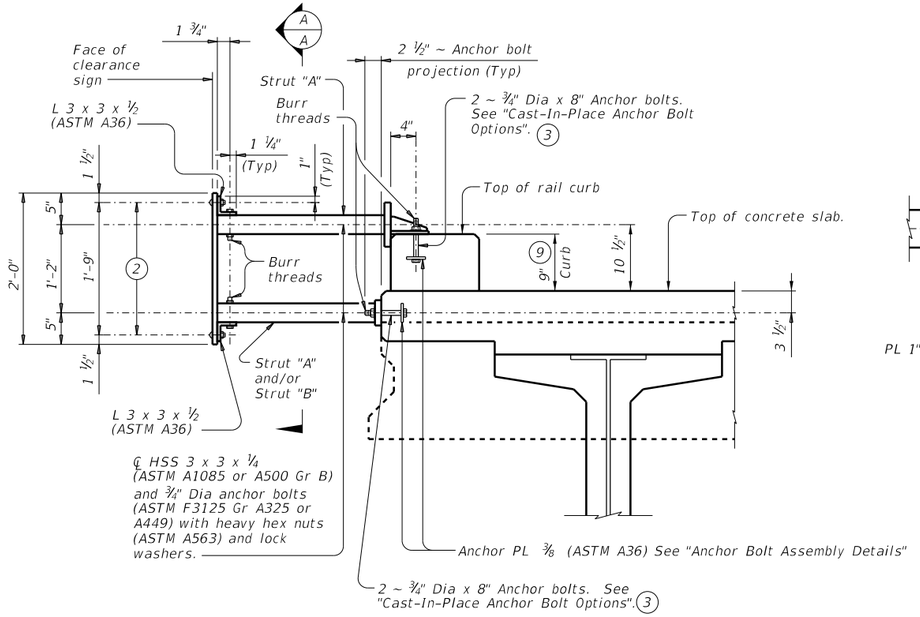
FOR 9" HIGH CURBS



FOR 11" HIGH CURBS

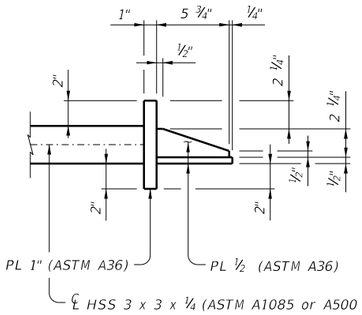
SECTION B-B

VIEW C-C

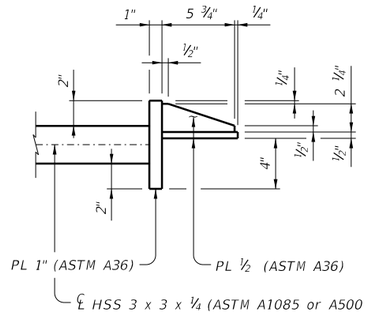


SECTION THRU T1F, T2P, C2P, T1W, C1W, T66 AND C66 RAIL CURB

Showing sign mount on a 9" high curb, 11" high curb similar.



FOR 9" HIGH CURBS



FOR 11" HIGH CURBS

VIEW D-D

SHEET 3 OF 3

Texas Department of Transportation

Bridge Division Standard

BRIDGE MOUNTED CLEARANCE SIGN ASSEMBLY

BMCS

FILE:	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT April 2019	CONT	SECT	JOB	HIGHWAY
REVISIONS	0904	00	223	VARIOUS
	DIST	COUNTY		SHEET NO.
	AMA	POTTER		143

DATE: 9/20/2023
FILE: Z:\Transportation\TxDOT\PS&E\STATEWIDE 36-9IDP5101\WA4-TxDOT Amarillo\PROJECTS\PACKAGE 3\CADD\DGN\09_ENVIRONMENTAL\std\epic.dgn

I. STORMWATER POLLUTION PREVENTION-CLEAN WATER ACT SECTION 402

TPDES TXR 150000: Stormwater Discharge Permit or Construction General Permit required for projects with 1 or more acres disturbed soil. Projects with any disturbed soil must protect for erosion and sedimentation in accordance with Item 506.

List MS4 Operator(s) that may receive discharges from this project. They may need to be notified prior to construction activities.

1. N/A

2.

☐ No Action Required ☒ Required Action

Action No.

1. Prevent stormwater pollution by controlling erosion and sedimentation in accordance with TPDES Permit TXR 150000

2. Comply with project SW3P. Less than one acre of disturbed area including any PSLs within 1 mile needs no posting on the project. Binder needs to be maintained and inspection completed by TxDOT weekly

3. Post Construction Site Notice (CSN) with SW3P information on or near the site, accessible to the public and TCEQ, EPA or other inspectors.

4. When Contractor project specific locations (PSL's) increase disturbed soil area to 5 acres or more, submit NOI to TCEQ and the Engineer.

II. WORK IN OR NEAR STREAMS, WATERBODIES AND WETLANDS CLEAN WATER ACT SECTIONS 401 AND 404

USACE Permit required for filling, dredging, excavating or other work in any water bodies, rivers, creeks, streams, wetlands or wet areas.

The Contractor must adhere to all of the terms and conditions associated with the following permit(s):

☒ No Permit Required
☐ Nationwide Permit 14 - PCN not Required (less than 1/10th acre waters or wetlands affected)
☐ Nationwide Permit 14 - PCN Required (1/10 to <1/2 acre, 1/3 in tidal waters)
☐ Individual 404 Permit Required
☐ Other Nationwide Permit Required: NWP# _____

Required Actions: List waters of the US permit applies to, location in project and check Best Management Practices planned to control erosion, sedimentation and post-project TSS.

1.

2.

3.

4.

The elevation of the ordinary high water marks of any areas requiring work to be performed in the waters of the US requiring the use of a nationwide permit can be found on the Bridge Layouts.

Best Management Practices:

Erosion	Sedimentation	Post-Construction TSS
☐ Temporary Vegetation	☐ Silt Fence	☐ Vegetative Filter Strips
☐ Blankets/Matting	☐ Rock Berm	☐ Retention/Irrigation Systems
☐ Mulch	☐ Triangular Filter Dike	☐ Extended Detention Basin
☐ Sodding	☐ Sand Bag Berm	☐ Constructed Wetlands
☐ Interceptor Swale	☐ Straw Bale Dike	☐ Wet Basin
☐ Diversion Dike	☐ Brush Berms	☐ Erosion Control Compost
☐ Erosion Control Compost	☐ Erosion Control Compost	☐ Mulch Filter Berm and Socks
☐ Mulch Filter Berm and Socks	☐ Mulch Filter Berm and Socks	☐ Compost Filter Berm and Socks
☐ Compost Filter Berm and Socks	☐ Compost Filter Berm and Socks	☐ Vegetation Lined Ditches
	☐ Stone Outlet Sediment Traps	☐ Sand Filter Systems
	☐ Sediment Basins	☐ Grassy Swales

III. CULTURAL RESOURCES

Refer to TxDOT Standard Specifications in the event historical issues or archeological artifacts are found during construction. Upon discovery of archeological artifacts (bones, burnt rock, flint, pottery, etc.) cease work in the immediate area and contact the Engineer immediately.

☐ No Action Required ☒ Required Action

Action No.

1. In the event that unanticipated archaeological deposits are encountered during construction, work in the immediate area will cease, and TxDOT archaeological staff will be contacted to initiate post-review discovery procedures.

2.

3.

4.

IV. VEGETATION RESOURCES

Preserve native vegetation to the extent practical.
Contractor must adhere to Construction Specification Requirements Specs 162, 164, 192, 193, 506, 730, 751, 752 in order to comply with requirements for invasive species, beneficial landscaping, and tree/brush removal commitments.

☒ No Action Required ☐ Required Action

Action No.

1.

2.

V. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECIES, CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES AND MIGRATORY BIRDS.

☐ No Action Required ☒ Required Action

Action No.

1. If any species on the Carson, Donley, or Gray County T&E lists are sighted in the project area during construction, stop construction and notify the Area engineer.

2. Bird BMP's: a) Do not disturb, destroy, or remove active nests, including ground nesting birds, during the nesting season; b) avoid the removal of unoccupied, inactive nests, as practicable; c) Do not collect, capture, relocate, or transport birds, eggs, young, or active nests without a permit.

3. The Migratory Bird Treaty Act of 1918 states that it is unlawful to kill, capture, collect, possess, buy, sell, trade, or transport any migratory bird, nest, young, feather, egg in part or in whole, without a Federal permit issued in accordance within the Act's policies and regulations. In the event that migratory birds are encountered on-site during project construction, adverse impacts on protected birds, active nests, eggs, and/or young would be avoided.

If any of the listed species are observed, cease work in the immediate area, do not disturb species or habitat and contact the Engineer immediately. The work may not remove active nests from bridges and other structures during nesting season of the birds associated with the nests. If caves or sinkholes are discovered, cease work in the immediate area, and contact the Engineer immediately.

LIST OF ABBREVIATIONS

BMP:	Best Management Practice	SPCC:	Spill Prevention Control and Countermeasure
CGP:	Construction General Permit	SW3P:	Storm Water Pollution Prevention Plan
DSHS:	Texas Department of State Health Services	PCN:	Pre-Construction Notification
FHWA:	Federal Highway Administration	PSL:	Project Specific Location
MOA:	Memorandum of Agreement	TCEQ:	Texas Commission on Environmental Quality
MOU:	Memorandum of Understanding	TPDES:	Texas Pollutant Discharge Elimination System
MS4:	Municipal Separate Stormwater Sewer System	TPWD:	Texas Parks and Wildlife Department
MBTA:	Migratory Bird Treaty Act	TxDOT:	Texas Department of Transportation
NOT:	Notice of Termination	T&E:	Threatened and Endangered Species
NWP:	Nationwide Permit	USACE:	U.S. Army Corps of Engineers
NOI:	Notice of Intent	USFWS:	U.S. Fish and Wildlife Service

VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES

General (applies to all projects):

Comply with the Hazard Communication Act (the Act) for personnel who will be working with hazardous materials by conducting safety meetings prior to beginning construction and making workers aware of potential hazards in the workplace. Ensure that all workers are provided with personal protective equipment appropriate for any hazardous materials used.

Obtain and keep on-site Material Safety Data Sheets (MSDS) for all hazardous products used on the project, which may include, but are not limited to the following categories: Paints, acids, solvents, asphalt products, chemical additives, fuels and concrete curing compounds or additives. Provide protected storage, off bare ground and covered, for products which may be hazardous. Maintain product labelling as required by the Act.

Maintain an adequate supply of on-site spill response materials, as indicated in the MSDS. In the event of a spill, take actions to mitigate the spill as indicated in the MSDS, in accordance with safe work practices, and contact the District Spill Coordinator immediately. The Contractor shall be responsible for the proper containment and cleanup of all product spills.

Contact the Engineer if any of the following are detected:
* Dead or distressed vegetation (not identified as normal)
* Trash piles, drums, canister, barrels, etc.
* Undesirable smells or odors
* Evidence of leaching or seepage of substances

Does the project involve any bridge class structure rehabilitation or replacements (bridge class structures not including box culverts)?

☐ Yes ☒ No

If "No", then no further action is required.
If "Yes", then TxDOT is responsible for completing asbestos assessment/inspection.

Are the results of the asbestos inspection positive (is asbestos present)?

☐ Yes ☐ No

If "Yes", then TxDOT must retain a DSHS licensed asbestos consultant to assist with the notification, develop abatement/mitigation procedures, and perform management activities as necessary. The notification form to DSHS must be postmarked at least 15 working days prior to scheduled demolition.

If "No", then TxDOT is still required to notify DSHS 15 working days prior to any scheduled demolition.

In either case, the Contractor is responsible for providing the date(s) for abatement activities and/or demolition with careful coordination between the Engineer and asbestos consultant in order to minimize construction delays and subsequent claims.

Any other evidence indicating possible hazardous materials or contamination discovered on site. Hazardous Materials or Contamination Issues Specific to this Project:

☒ No Action Required ☐ Required Action

Action No.

1.

2.

3.

VII. OTHER ENVIRONMENTAL ISSUES

(includes regional issues such as Edwards Aquifer District, etc.)

☒ No Action Required ☐ Required Action

Action No.

1.

2.

3.

STATE OF TEXAS
CHARLES M. SHINE
62999
LICENSED
PROFESSIONAL ENGINEER

9/20/2023

Texas Department of Transportation — Design Division Standard

ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS

EPIC

FILE: epic.dgn	DN: TxDOT	CK: RG	DW: VP	CK: AR
©TxDOT: February 2015	CONT	SECT	JOB	HIGHWAY
REVISIONS 12-12-2011 (DS) 05-07-14 ADDED NOTE SECTION IV. 01-23-2015 SECTION I (CHANGED ITEM 1122 TO ITEM 506, ADDED GRASSY SWALES.	0904	00	223	VARIOUS
	DIST	COUNTY		SHEET NO.
	AMA	POTTER		144

STORMWATER POLLUTION PRVENTION PLAN (SWP3):

This SWP3 has been developed in accordance with TxDOT policy for projects disturbing less than 1 acre of soil, and not part of a larger common plan of development.

This SWP3 is consistent with requirements specified in applicable stormwater plans, and the project's environmental permits, issues, and commitments (EPICs).

1.0 SITE/PROJECT DESCRIPTION

1.1 PROJECT CONTROL SECTION JOB (CSJ):

0904-00-223

1.2 PROJECT LIMITS:

From: Potter County Line

To: Wheeler County Line

1.3 PROJECT COORDINATES:

BEGIN: (Lat) 35.20693 ,(Long) 101.62308

END: (Lat) 35.22675 ,(Long) 100.53861

1.4 TOTAL PROJECT AREA (Acres): _____

1.5 TOTAL AREA TO BE DISTURBED (Acres): 0.50

1.6 NATURE OF CONSTRUCTION ACTIVITY:

For the construction of: install/replace large signs, replace existing signs, replace bridge clearance signs.

1.7 MAJOR SOIL TYPES:

Soil Type	Description
PxA	Pantex silty clay loam, 0 to 1 percent slopes
PuA	Pullman clay loam, 0 to 1 percent slopes
PuB	Pullman clay loam, 1 to 3 percent slopes
MfB	Miles fine sandy loam, 1 to 3 percent slopes

1.8 PROJECT SPECIFIC LOCATIONS (PSLs):

PSLs must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. PSLs may be identified during preconstruction meetings or during the construction process. Please choose from the options below:

- ☐ PSLs determined during preconstruction meeting
- ☐ PSLs determined during construction
- ☐ No PSLs planned for construction

Type	Sheet #s

All off-ROW PSLs required by the Contractor are the Contractor's responsibility. The Contractor shall secure all permits required by local, state, federal laws for off-ROW PSLs. The contractor shall provide diagrams, areas of disturbance, acreage, and BMPs for all off-ROW PSLs within one mile of the project.

1.9 CONSTRUCTION ACTIVITIES:

(Use the following list as a starting point when developing the Construction Activity Schedule and Ceasing Record in Attachment 2.3.)

- ☐ Mobilization
- ☐ Install sediment and erosion controls
- ☐ Blade existing topsoil into windrows, prep ROW, clear and grub
- ☐ Remove existing pavement
- ☐ Grading operations, excavation, and embankment
- ☐ Excavate and prepare subgrade for proposed pavement widening
- ☐ Remove existing culverts, safety end treatments (SETs)
- ☐ Remove existing metal beam guard fence (MBGF), bridge rail
- ☐ Install proposed pavement per plans
- ☐ Install culverts, culvert extensions, SETs
- ☐ Install mow strip, MBGF, bridge rail
- ☐ Place flex base
- ☐ Rework slopes, grade ditches
- ☐ Blade windrowed material back across slopes
- ☐ Revegetation of unpaved areas
- ☐ Achieve site stabilization and remove sediment and erosion control measures
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

1.10 POTENTIAL POLLUTANTS AND SOURCES:

- ☐ Sediment laden stormwater from stormwater conveyance over disturbed area
- ☐ Fuels, oils, and lubricants from construction vehicles, equipment, and storage
- ☐ Solvents, paints, adhesives, etc. from various construction activities
- ☐ Transported soils from offsite vehicle tracking
- ☐ Construction debris and waste from various construction activities
- ☐ Contaminated water from excavation or dewatering pump-out water
- ☐ Sanitary waste from onsite restroom facilities
- ☐ Trash from various construction activities/receptacles
- ☐ Long-term stockpiles of material and waste
- ☐
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

1.11 RECEIVING WATERS:

Receiving waters must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. Include Segment # for receiving waters.

Tributaries	Classified Waterbody
McAllen Creek	Intermittent to Perennial Stream
Salt Fork of the Red River	Intermittent Stream
Non-jurusdictional playa lakes	Ephemeral
South Long Dry Creek	Intermitten Stream

* Add (*) for impaired waterbodies with pollutant in ().

1.12 ROLES AND RESPONSIBILITIES: TxDOT

- X Development of plans and specifications
- X Perform SWP3 inspections
- X Maintain SWP3 records and update to reflect daily operations
- ☐ Other: _____
- ☐ Other: _____

1.13 ROLES AND RESPONSIBILITIES: CONTRACTOR

- X Day To Day Operational Control
- X Maintain schedule of major construction activities
- X Install, maintain and modify BMPs
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

STATE OF TEXAS
CHARLES M. SHINE
62999
LICENSED
PROFESSIONAL ENGINEER

4/16/2024

Charles M. Shine, P.E.

STORMWATER POLLUTION PREVENTION PLAN (SWP3) (Less Than 1 Acre)

July 2023 Sheet 1 of 2

Texas Department of Transportation

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
6	SEE TITLE SHEET		145
STATE	STATE DIST.	COUNTY	
TEXAS	AMA	POTTER	
CONT.	SECT.	JOB	HIGHWAY NO.
0904	00	223	VARIOUS

STORMWATER POLLUTION PRVENTION PLAN (SWP3):

2.0 BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS, INSPECTION, AND MAINTENANCE

The Contractor shall be the responsible party for implementing the BMPs described herein and for complying with the SWP3 for control of erosion and sedimentation during day-to-day operations. The Contractor shall implement changes to this SWP3 approved by TxDOT within the times specified in this SWP3 or the CGP.

2.1 EROSION CONTROL AND SOIL STABILIZATION BMPs:

T / P

- ☐ ☐ Protection of Existing Vegetation
- ☐ ☐ Vegetated Buffer Zones
- ☐ ☐ Soil Retention Blankets
- ☐ ☐ Geotextiles
- ☐ ☐ Mulching/ Hydromulching
- ☐ ☐ Soil Surface Treatments
- ☐ ☐ Temporary Seeding
- ☐ ☐ Permanent Planting, Sodding or Seeding
- ☐ ☐ Biodegradable Erosion Control Logs
- ☐ ☐ Rock Filter Dams/ Rock Check Dams
- ☐ ☐ Vertical Tracking
- ☐ ☐ Interceptor Swale
- ☐ ☐ Riprap
- ☐ ☐ Diversion Dike
- ☐ ☐ Temporary Pipe Slope Drain
- ☐ ☐ Embankment for Erosion Control
- ☐ ☐ Paved Flumes
- ☐ ☐ Other: _____
- ☐ ☐ Other: _____
- ☐ ☐ Other: _____
- ☐ ☐ Other: _____

2.2 SEDIMENT CONTROL BMPs:

T / P

- ☐ ☐ Biodegradable Erosion Control Logs
- ☐ ☐ Dewatering Controls
- ☐ ☐ Inlet Protection
- ☐ ☐ Rock Filter Dams/ Rock Check Dams
- ☐ ☐ Sandbag Berms
- ☐ ☐ Sediment Control Fence
- ☐ ☐ Stabilized Construction Exit
- ☐ ☐ Floating Turbidity Barrier
- ☐ ☐ Vegetated Buffer Zones
- ☐ ☐ Vegetated Filter Strips
- ☐ ☐ Other: _____
- ☐ ☐ Other: _____
- ☐ ☐ Other: _____
- ☐ ☐ Other: _____

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.3 PERMANENT CONTROLS:

(Coordinate post-construction BMPs with appropriate TxDOT maintenance sections.)

BMPs To Be Left In Place Post Construction:

Type	Stationing	
	From	To

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.4 OFFSITE VEHICLE TRACKING CONTROLS:

- ☐ Excess dirt/mud on road removed daily
- ☐ Haul roads dampened for dust control
- ☐ Loaded haul trucks to be covered with tarpaulin
- ☐ Stabilized construction exit
- ☐ Daily street sweeping
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

2.5 POLLUTION PREVENTION MEASURES:

- ☐ Chemical Management
- ☐ Concrete and Materials Waste Management
- ☐ Debris and Trash Management
- ☐ Dust Control
- ☐ Sanitary Facilities
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

2.6 VEGETATED BUFFER ZONES:

Natural vegetated buffers shall be maintained as feasible to protect adjacent surface waters. If vegetated natural buffer zones are not feasible due to site geometry, the appropriate additional sediment control measures have been incorporated into this SWP3.

Type	Stationing	
	From	To

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.7 ALLOWABLE NON-STORMWATER DISCHARGES:

- ☒ Fire hydrant flushings
- ☒ Irrigation drainage
- ☒ Pavement washwater (where spills or leaks have not occurred, and detergents are not used)
- ☒ Potable water sources
- ☒ Springs
- ☒ Uncontaminated groundwater
- ☒ Water used to wash vehicles or control dust
- ☒ Other allowable non-stormwater discharges as allowed by TPDES GP TXR150000.

2.8 DEWATERING:

Dewatering discharges of accumulated stormwater, groundwater, and surface water including discharges from dewatering of trenches, excavations, foundations, vaults, and other points of accumulation are prohibited unless managed by appropriate controls to prevent and minimize the offsite discharge of sediment and other pollutants.

2.9 INSPECTIONS:

All disturbed areas and erosion and sediment control devices shall be inspected at least once every seven (7) days. Inspections shall be performed by TxDOT as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.3 of this SWP3 .

2.10 MAINTENANCE:

Control measures shall be properly installed according to specifications. If it is determined that a BMP or control measure is not operating effectively, maintenance must be accomplished as soon as possible and before the next anticipated rain event, but in no case later than 7 calendar days after being able to access the site. Maintenance shall be performed by the Contractor as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.3 of this SWP3.

4/16/2024

Charles M Shine P.E.

STORMWATER POLLUTION PREVENTION PLAN (SWP3) (Less Than 1 Acre)

July 2023 Sheet 2 of 2

Texas Department of Transportation

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
6	SEE TITLE SHEET		146
STATE	STATE DIST.	COUNTY	
TEXAS	AMA	POTTER	
CONT.	SECT.	JOB	HIGHWAY NO.
0904	00	223	VARIOUS