

STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED
STATE HIGHWAY IMPROVEMENT

PROJECT NO. : RMC 642842001
CONTROL SECTION JOB: 6428-42-001
WICHITA COUNTY, ETC
IH-44, ETC.

FOR THE ROUTINE MAINTENANCE WORK CONSISTING OF
LARGE AND SMALL SIGN REPLACEMENT

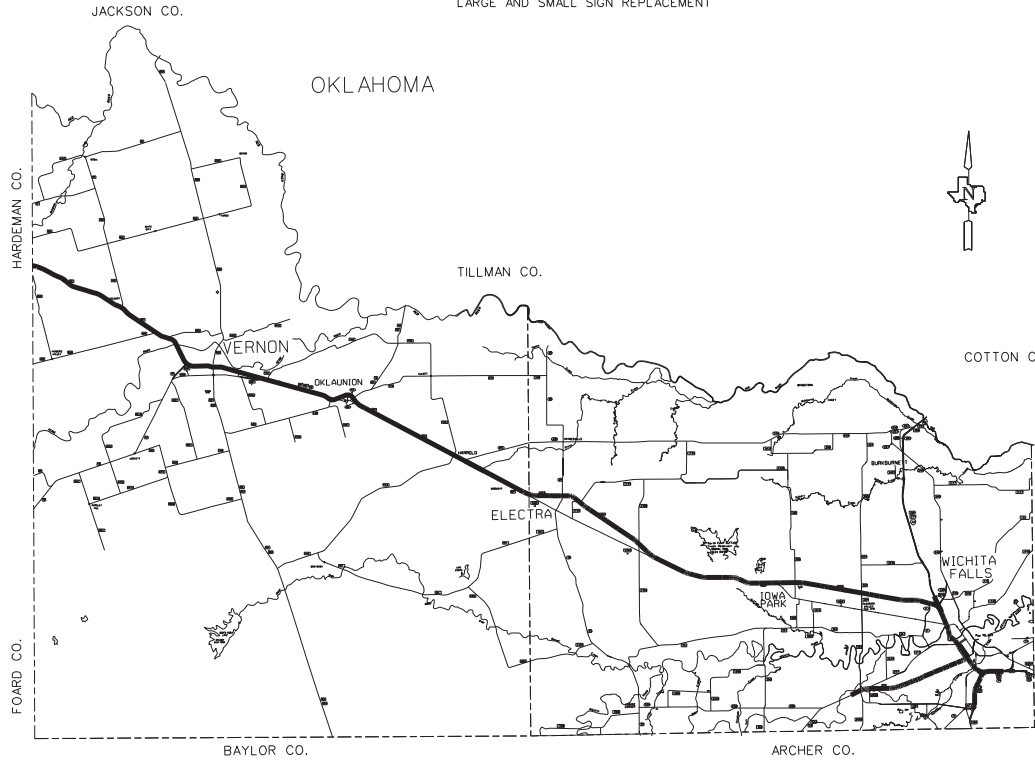
PROJECT NO.		SHEET NO.	
RMC 642842001		1	
STATE	DIST.	COUNTY	
TEXAS	WFS	WICHITA, ETC.	
CONT.	SECT.	JOB	HIGHWAY NO.
6428	42	001	IH-44, ETC.

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CONTRACTOR NAME: _____
CONTRACTOR ADDRESS: _____
LETTING DATE: _____
DATE WORK BEGAN: _____
DATE WORK COMPLETED: _____
DATE OF ACCEPTANCE: _____

REQUIRED SIGNS SHALL BE IN ACCORDANCE WITH BC (1)-21 THRU BC (12)-21 AND THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

PROJECT LIMIT SIGNS AS SHOWN ON BC (2)-21 WILL NOT BE REQUIRED ON THIS PROJECT.



SUBMITTED FOR LETTING 04/22/2024

Travis J. Herrell, P.E.
TRAFFIC ENGINEER

RECOMMENDED FOR LETTING 04/22/2024

D. J. M. R. P.E.
DISTRICT DIRECTOR OF MAINTENANCE

RECOMMENDED FOR LETTING 04/22/2024

Michael D. Brown, P.E.
DISTRICT ENGINEER



THE STANDARD SHEETS SPECIFICALLY IDENTIFIED WITH ** HAVE BEEN ISSUED BY ME AND ARE APPLICABLE TO THIS PROJECT.

NAME *Travis J. Herrell, P.E.* DATE 04/22/2024

NOT TO SCALE
NO EXCEPTIONS
NO EQUATIONS
NO RAILROAD CROSSINGS

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION, NOVEMBER 1, 2014, AND SPECIFICATION ITEMS LISTED SHALL GOVERN ON THIS PROJECT.

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DATE: 4/22/2024

COUNTY: _____ PROJ. NO.: _____
DATE ACCEPTED: _____ LETTING DATE: _____

GENERAL NOTES

General Requirements

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

Shaun Barnes, P.E. Shaun.Barnes@txdot.gov
Travis Herrell, P.E. Travis.Herrell@txdot.gov

Questions may be submitted via the Letting Pre-Bid Q&A web page. This webpage can be accessed from the Notice to Contractors dashboard located at the following Address:

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

All contractor questions will be reviewed by the Engineer. All questions and any corresponding responses that are generated will be posted through the same Letting Pre-Bid Q&A web page.

The Letting Pre-Bid Q&A web page for each project can be accessed by using 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 for the project you want to view the Q&A for and click on the link in the window that pops up.

Bid Item Specific General Notes

Item 7 – Legal Relations and Responsibilities

No significant traffic generator events identified for this project.

Item 8 – Prosecution and Progress

A 30 day delay will be allowed for the ordering and receiving of materials.

Item Specific

Item 442 – Metal for Structures

Overhead signs with structural steel quantities listed on Summary of Large Signs will require the contractor to obtain new mounting brackets. These brackets shall be verified by the Engineer prior to installation.

When installing new overhead signs on existing sign bridges the existing brackets may need to be shortened as directed by the Engineer. This work will be subsidiary to Item 442.

Item 502 – Barricades, Signs, and Traffic Handling

The Traffic Control Plan (TCP) for this project includes the plans, the Texas Manual on Traffic Control Devices, Barricade and Construction Standard Sheets, Standard TCP Sheets, and as otherwise required by the Engineer.

The Contractor's person responsible for TCP compliance is available by local telephone 24 hours a day and must respond to traffic control needs within 45 minutes of being notified.

Work will not be permitted without adequate traffic control devices in place. Work will only be permitted on one side of the roadway at any time.

Any work to be performed over open lanes of traffic must first be approved by the Engineer.

The 7 day advance warning with changeable message signs will be waived except where lane closures are required.

Construction work to be performed on IH 44 and US 287 shall require TCP 6-series standards.

Work vehicles within 30 feet of the traveled way shall have strobe lights or rotating beacons in use.

Wear appropriate personal protective equipment at all times while outside of vehicles and equipment on the project.

Contractor shall not set up traffic control at multiple locations. All work and traffic control operations shall be completed prior to advancing to next location unless otherwise directed by the Engineer.

Provide adequate flagging on side roads to ensure that traffic flow is not compromised during one way traffic control operations.

Remove from the roadway and store in a central location approved by the Engineer all temporary traffic control devices, such as cones, barrels, portable signs, vertical panels, etc., which will not be used within 24 hours. This includes removal of temporary traffic control devices from the roadway over the weekend.

Perform all construction work in daylight hours unless the engineer approves nighttime work in writing. Do not allow any construction equipment to be placed on the roadway until 30 minutes after sunrise and ensure that all construction equipment is removed from the roadway 30 minutes before sunset. Sunrise and sunset times will be as determined by NOAA at the following website
<https://gml.noaa.gov/grad/solcalc/sunrise.html>



CONTROLLING PROJECT ID 6428-42-001

DISTRICT Wichita Falls
HIGHWAY IH0044

COUNTY Wichita

Estimate & Quantity Sheet


ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL
	416-6018	DRILL SHAFT (SIGN MTS) (24 IN)	LF	270.000	
	442-6007	STR STEEL (MISC NON - BRIDGE)	LB	6,652.800	
	500-6001	MOBILIZATION	LS	1.000	
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	5.000	
	636-6001	ALUMINUM SIGNS (TY A)	SF	16.000	
	636-6002	ALUMINUM SIGNS (TY G)	SF	307.750	
	636-6008	REPLACE EXISTING ALUMINUM SIGNS(TY G)	SF	2,900.250	
	636-6009	REPLACE EXISTING ALUMINUM SIGNS(TY O)	SF	10,345.750	
	644-6051	IN SM RD SN SUP&AM TYS80(2)SA(P-EXAL)	EA	17.000	
	644-6065	IN BRIDGE MNT CLEARANCE SGN ASSM(TY S)	EA	12.000	
	647-6001	INSTALL LRSS (STRUCT STEEL)	LB	10,424.200	
	647-6003	REMOVE LRSA	EA	27.000	
	6001-6001	PORTABLE CHANGEABLE MESSAGE SIGN	DAY	66.000	
	6185-6002	TMA (STATIONARY)	DAY	132.000	

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SUMMARY OF SMALL SIGNING ITEMS									
SMALL SIGN LOCATIONS	416 6018	442 6007	636 6001	636 6002	636 6008	636 6009	644 6051	644 6065	647 6001
	DRILL SHAFT (SIGN MTS) (24 IN)	STR STEEL (MISC NON - BRIDGE)	ALUMINUM SIGNS (TY A)	ALUMINUM SIGNS (TY G)	REPLACE EXISTING ALUMINUM SIGNS(TY G)	REPLACE EXISTING ALUMINUM SIGNS(TY O)	IN SM RD SN SUP&AM TYS80(2)SA(P-EXAU)	IN BRIDGE MNT CLEARANCE SGN ASSM(TY S)	INSTALL LRSS (STRUCT STEEL)
	LF	LB	SF	SF	SF	SF	EA	EA	LB
#1							1		
#33							1		
#53			16						
#61							1		
#63							1		
#67							1		
#69							1		
#75							1		
Exit Arrow Left							1		
Exit Arrow Right							9		
TOTAL	0	0	16	0	0	0	17	0	0

SUMMARY OF LARGE GROUND MOUNT SIGNING ITEMS									
LARGE GROUND MOUNT LOCATIONS	416 6018	442 6007	636 6001	636 6002	636 6008	636 6009	644 6051	644 6065	647 6001
	DRILL SHAFT (SIGN MTS) (24 IN)	STR STEEL (MISC NON - BRIDGE)	ALUMINUM SIGNS (TY A)	ALUMINUM SIGNS (TY G)	REPLACE EXISTING ALUMINUM SIGNS(TY G)	REPLACE EXISTING ALUMINUM SIGNS(TY O)	IN SM RD SN SUP&AM TYS80(2)SA(P-EXAU)	IN BRIDGE MNT CLEARANCE SGN ASSM(TY S)	INSTALL LRSS (STRUCT STEEL)
	LF	LB	SF	SF	SF	SF	EA	EA	LB
#2					84				
#3	12				90				482.6
#4	18			233					1065.9
#9					87.5				
#10	11				63.75				385.9
#16	11				75				367.9
#17					116				
#18					94.25				
#19	14				116				553.1
#20	12				94.25				458.6
#24	11				84				340.9
#27	11				74.75				349.9
#30	16.5				112.75				502.4
#56	16.5				148.25				538.4
#57	11				79				340.9
#58	11			74.75					349.9
#68	12				153.75				613.1
#70	16.5				126				515.9
#71	16.5				144.5				542.9
#72					151				
#76					92				
#77					116				
#78					94.25				
#79	14				116				433.1
#80	12				94.25				458.6
#84	12				90				482.6
#85					64				
#89	20				249				1159
#90	12				90				482.6
TOTAL	270	0	0	307.75	2900.25	0	0	0	10424.2

IH-44, ETC. QUANTITY SUMMARY



TEXAS DEPARTMENT OF TRANSPORTATION
SHEET 1 OF 3


CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	4	

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SUMMARY OF LARGE OVERHEAD SIGNING ITEMS									
LARGE OVERHEAD LOCATIONS	416 6018	442 6007	636 6001	636 6002	636 6008	636 6009	644 6051	644 6065	647 6001
	DRILL SHAFT (SIGN MTS) (24 IN)	STR STEEL (MISC NON - BRIDGE)	ALUMINUM SIGNS (TY A)	ALUMINUM SIGNS (TY G)	REPLACE EXISTING ALUMINUM SIGNS(TY G)	REPLACE EXISTING ALUMINUM SIGNS(TY O)	IN SM RD SN SUP&AM TYS80(2)SA(P-EXAU)	IN BRIDGE MNT CLEARANCE SGN ASSM(TY S)	INSTALL LRSS (STRUCT STEEL)
	LF	LB	SF	SF	SF	SF	EA	EA	LB
#7		346.5				447			
#21		843.15				648.25			
#22		693				513			
#25		138.6				195.25			
#26		246.4				202			
#28		238.7				196			
#29		311.85				428.5			
#31		446.6				48			
#32						551			
#34		219.45				223.25			
#35						164			
#36						160			
#37						142			
#38						419			
#39						280			
#40						302.75			
#41						120			
#42		146.3				327			
#43						319			
#44						222			
#45						228.25			
#46						108			
#47		277.2				264			
#48						116			
#49						162			
#50						189			
#51		365.75				294.5			
#52		284.9				243.75			
#59		396.55				505.5			
#60		442.75				427.5			
#62						264.75			
#65						498.75			
#66		154				153.75			
#73		477.4				406			
#74		300.3				255.25			
#86		323.4				320.75			
TOTAL	0	6652.8	0	0	0	10345.75	0	0	0

SUMMARY OF BRIDGE MOUNTED CLEARANCE SIGNING ITEMS									
BRIDGE MOUNTED CLEARANCE SIGN LOCATIONS	416 6018	442 6007	636 6001	636 6002	636 6008	636 6009	644 6051	644 6065	647 6001
	DRILL SHAFT (SIGN MTS) (24 IN)	STR STEEL (MISC NON - BRIDGE)	ALUMINUM SIGNS (TY A)	ALUMINUM SIGNS (TY G)	REPLACE EXISTING ALUMINUM SIGNS(TY G)	REPLACE EXISTING ALUMINUM SIGNS(TY O)	IN SM RD SN SUP&AM TYS80(2)SA(P-EXAU)	IN BRIDGE MNT CLEARANCE SGN ASSM(TY S)	INSTALL LRSS (STRUCT STEEL)
	LF	LB	SF	SF	SF	SF	EA	EA	LB
BMCS #1A								1	
BMCS #1B								1	
BMCS #2A								1	
BMCS #2B								1	
BMCS #3A								1	
BMCS #3B								1	
BMCS #4A								1	
BMCS #4B								1	
BMCS #5A								1	
BMCS #5B								1	
BMCS #6								1	
BMCS #7								1	
TOTAL	0	0	0	0	0	0	0	12	0

**IH-44, ETC.
QUANTITY
SUMMARY**



SHEET 2 OF 3

CONT	SECT	JOB	HIGHWAY
5428	42	001	IH-44, ETC.
DIST	COUNTY		SHEET NO.
WFS	WICHITA, ETC.		5

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SUMMARY OF REMOVAL ITEMS	
REMOVAL LOCATION	647 6003
	REMOVE LRSA
	EA
#3	1
#4	1
#5	1
#6	1
#10	1
#16	1
#19	1
#20	1
#24	1
#27	1
#30	1
#54	1
#55	1
#56	1
#57	1
#58	1
#64	1
#68	1
#70	1
#71	1
#79	1
#80	1
#84	1
#87	1
#88	1
#89	1
#90	1
TOTAL	27

SUMMARY OF SIGNING ITEMS										
LOCATION	416 6018	442 6007	636 6001	636 6002	636 6008	636 6009	644 6051	644 6065	647 6001	647 6003
	DRILL SHAFT (SIGN MTS) (24 IN)	STR STEEL (MISC NON - BRIDGE)	ALUMINUM SIGNS (TY A)	ALUMINUM SIGNS (TY G)	REPLACE EXISTING ALUMINUM SIGNS(TY G)	REPLACE EXISTING ALUMINUM SIGNS(TY O)	IN SM RD SN SUP&AM TYS80(2)SA(P-EXAL)	IN BRIDGE MNT CLEARANCE SGN ASSM(TY S)	INSTALL LRSS (STRUCT STEEL)	REMOVE LRSA
	LF	LB	SF	SF	SF	SF	EA	EA	LB	EA
PROJECT TOTALS	270	6652.8	16	307.75	2900.25	10345.75	17	12	10424.2	27

**IH-44, ETC.
 QUANTITY
 SUMMARY**

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).

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

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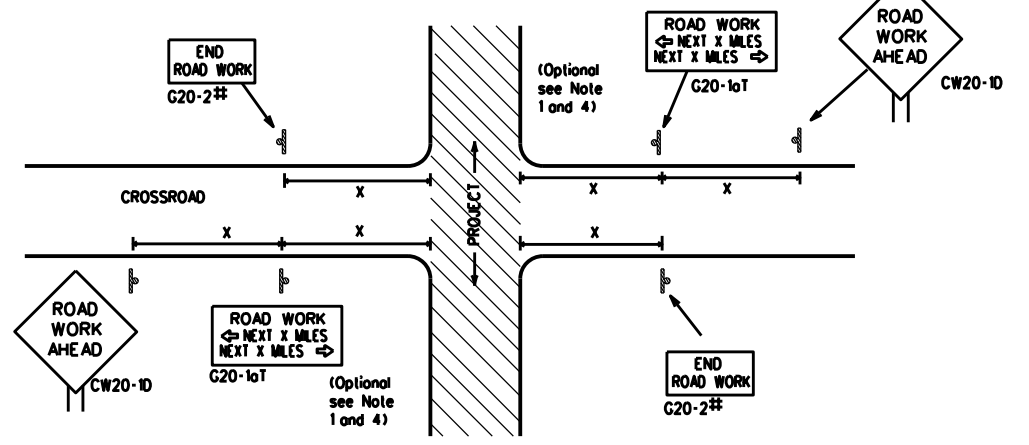


**BARRICADE AND CONSTRUCTION
GENERAL NOTES
AND REQUIREMENTS**

BC(1)-21

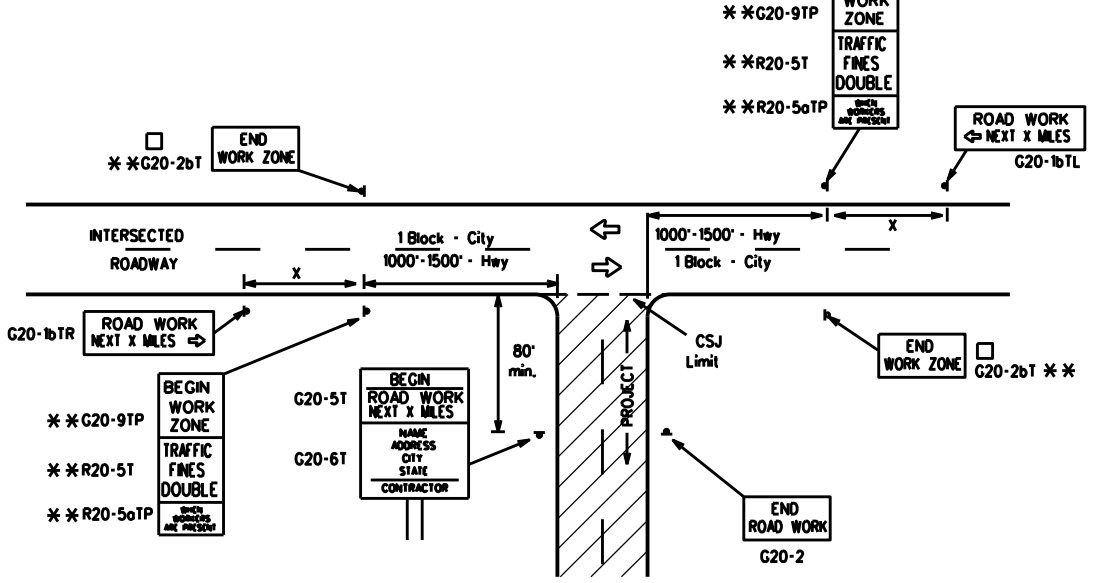
FILE:	bc-21.dgn	DN:	TxDOT	CK:	TxDOT	DW:	TxDOT	CK:	TxDOT
© TxDOT	November 2002	CONT	SECT	JOB	HIGHWAY				
REVISIONS		5428	42	001	IH-44, ETC.				
4-03	7-13								
9-07	8-14								
5-10	5-21	WFS	WICHITA, ETC.				7		
		DIST	COUNTY		SHEET NO.				

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)
- 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.
 - 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.
 - 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.
 - 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.
 - Additional traffic control devices may be shown elsewhere in the plans for higher volume crossroads.
 - 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

- 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.
- 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

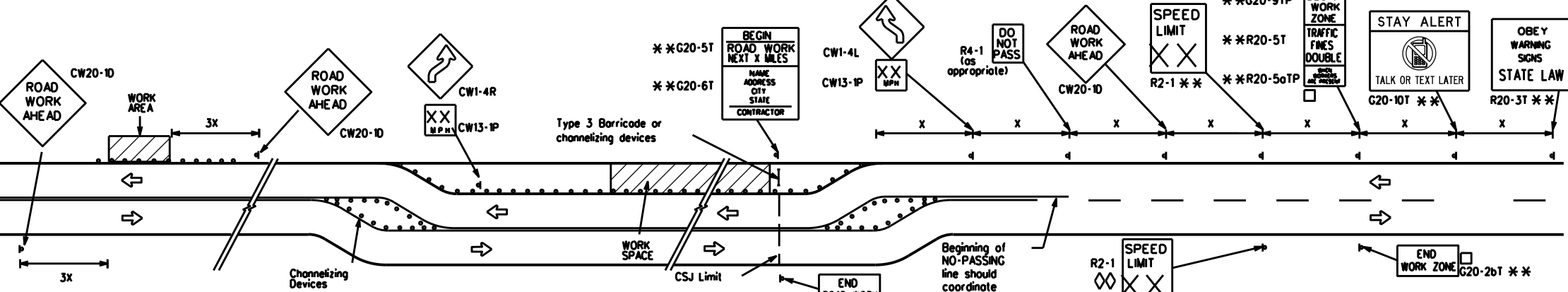
Sign Number or Series	SIZE		SPACING	
	Conventional Road	Expressway/Freeway	Posted Speed MPH	Sign Spacing "X" Feet (Apprx.)
CW20 ⁴	48" x 48"	48" x 48"	30	120
CW21			35	160
CW23			40	240
CW25			45	320
CW1, CW2, CW7, CW8, CW9, CW11, CW14	36" x 36"	48" x 48"	50	400
CW3, CW4, CW5, CW6, CW8-3, CW10, CW12	48" x 48"	48" x 48"	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

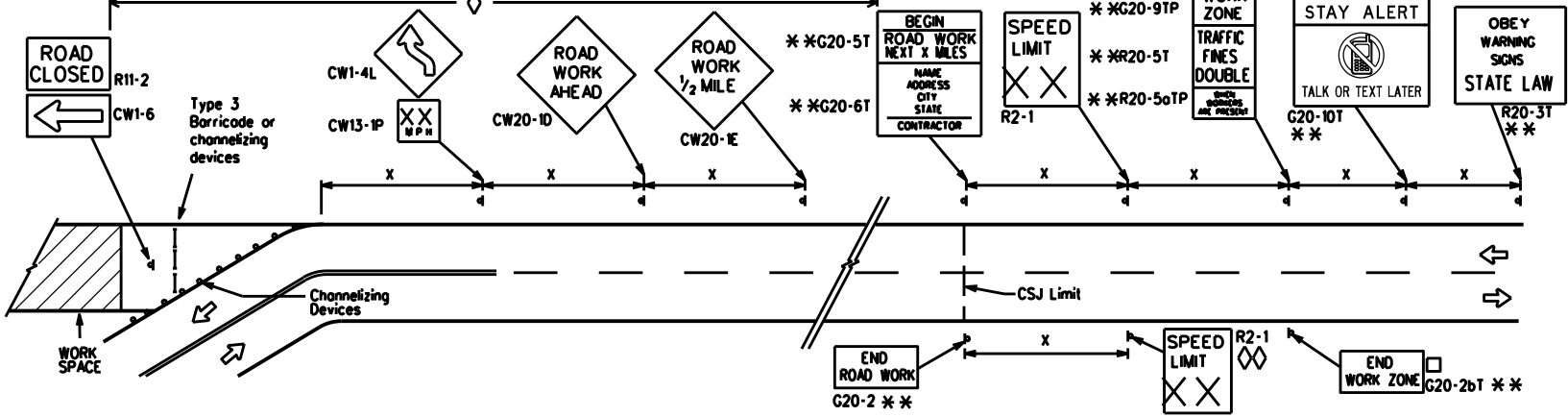
- Special or larger size signs may be used as necessary.
- Distance between signs should be increased as required to have 1500 feet advance warning.
- Distance between signs should be increased as required to have 1/2 mile or more advance warning.
- 36" x 36" "ROAD WORK AHEAD" (CW20-1D) signs may be 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".
- Only diamond shaped warning sign sizes are indicated.
- 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

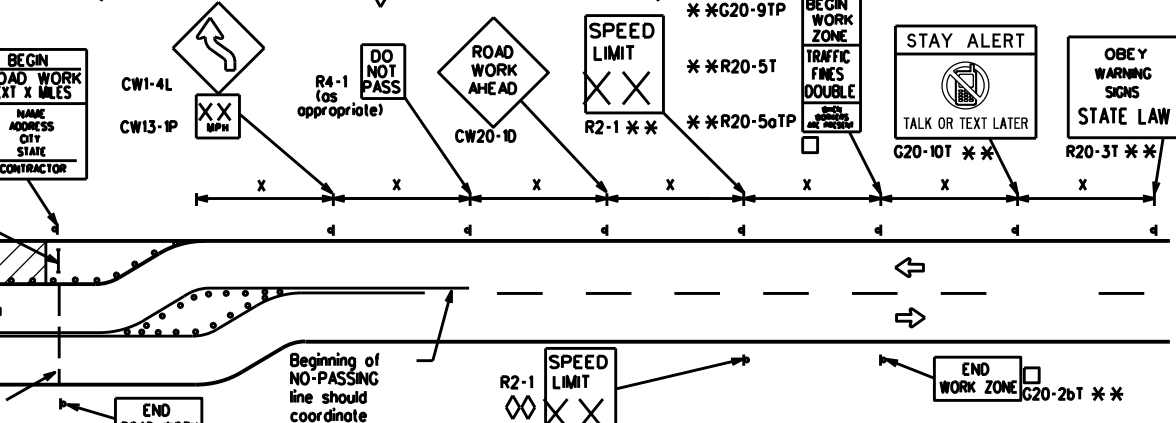


When extended distances occur between minimal work spaces, the Engineer/Inspector should ensure additional "ROAD WORK AHEAD" (CW20-1D) signs are placed in advance of these work areas to remind drivers they are still within the project limits. See the applicable TCP sheets for exact location and spacing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

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



SAMPLE LAYOUT OF SIGNING FOR WORK BEGINNING AT 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.

BARRICADE AND CONSTRUCTION PROJECT LIMIT

BC(2)-21

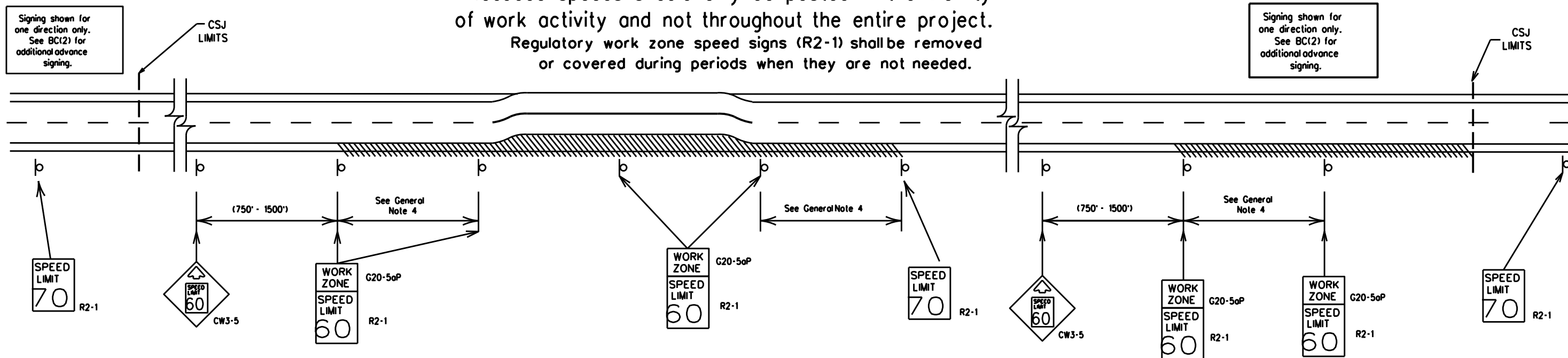
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© TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
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9-07 8-14	DIST	COUNTY	SHEET NO.	
7-13 5-21	WFS	WICHITA, ETC.	8	

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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. Low 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.

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SHEET 3 OF 12

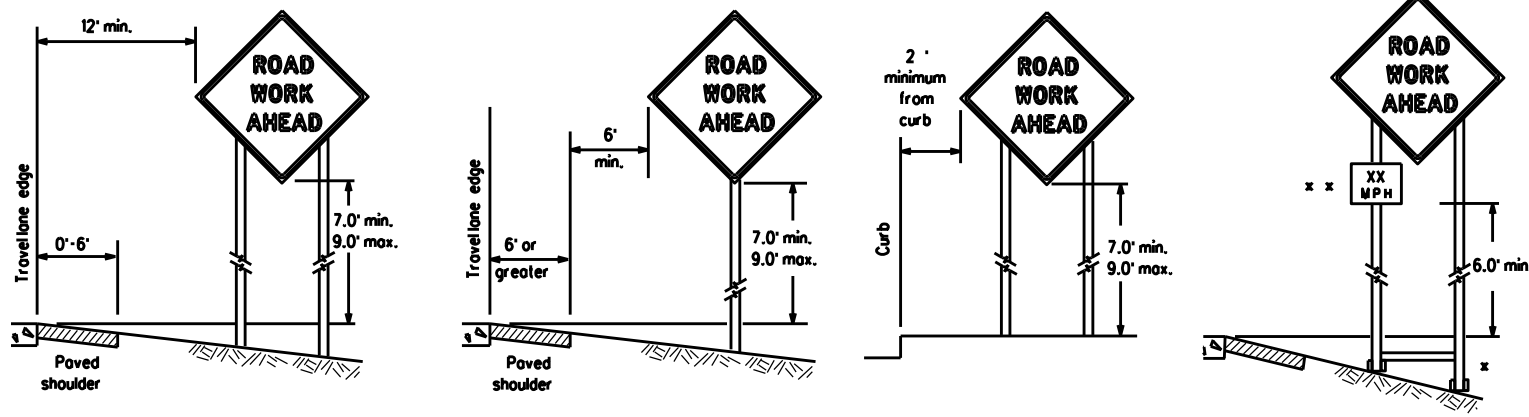


BARRICADE AND CONSTRUCTION WORK ZONE SPEED LIMIT

BC(3)-21

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7-13 5-21	WFS	WICHITA, ETC.	9	

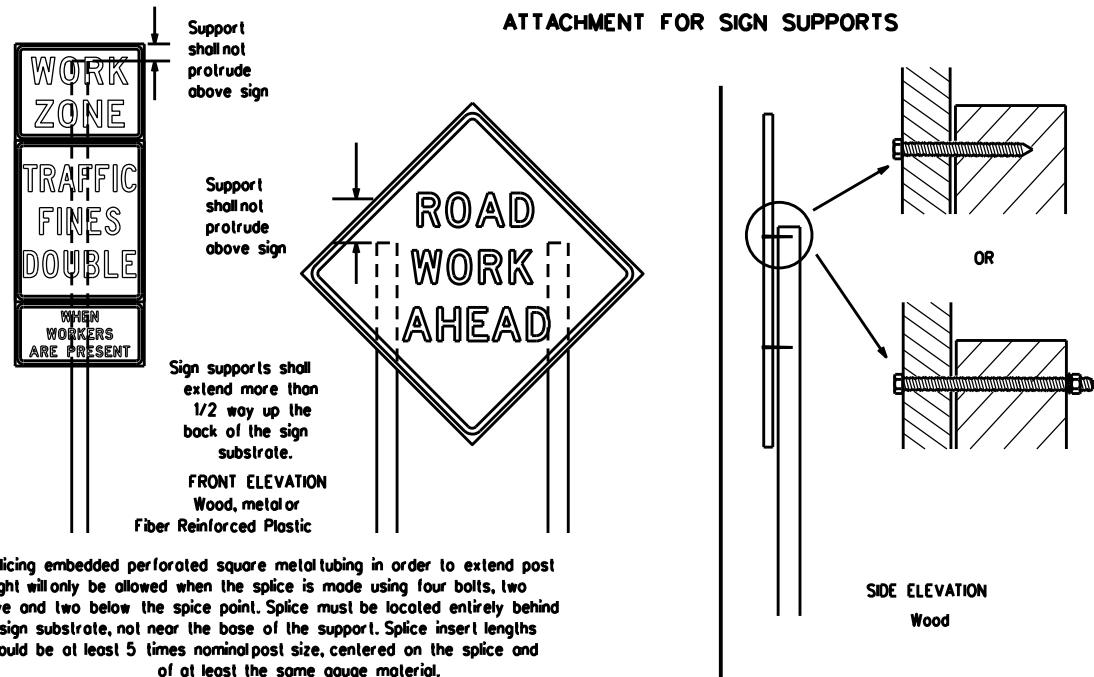
TYPICAL MINIMUM CLEARANCES FOR LONG TERM AND INTERMEDIATE TERM SIGNS



* 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

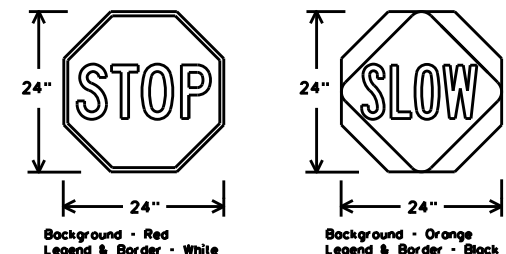


Nois shall NOT be allowed. Each sign shall be attached directly to the sign support. Multiple signs shall not be joined or spliced by any means. Wood supports shall not be extended or repaired by splicing or other means.

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 splice 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 retroreflectized 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 _{TL} OR C _{TL} 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 CWZTCO 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" (CWZTCO) 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)**
- 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 CWZTCO 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 or Type C, 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 CWZTCO 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.



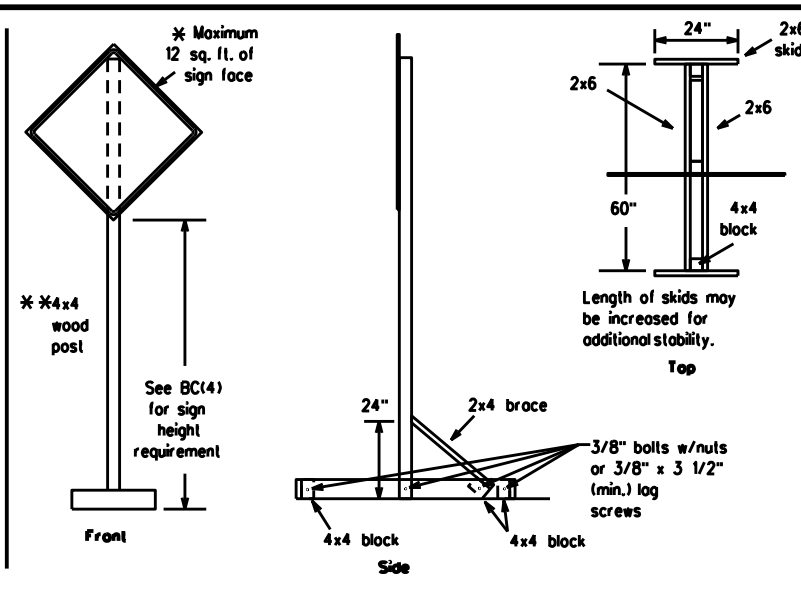
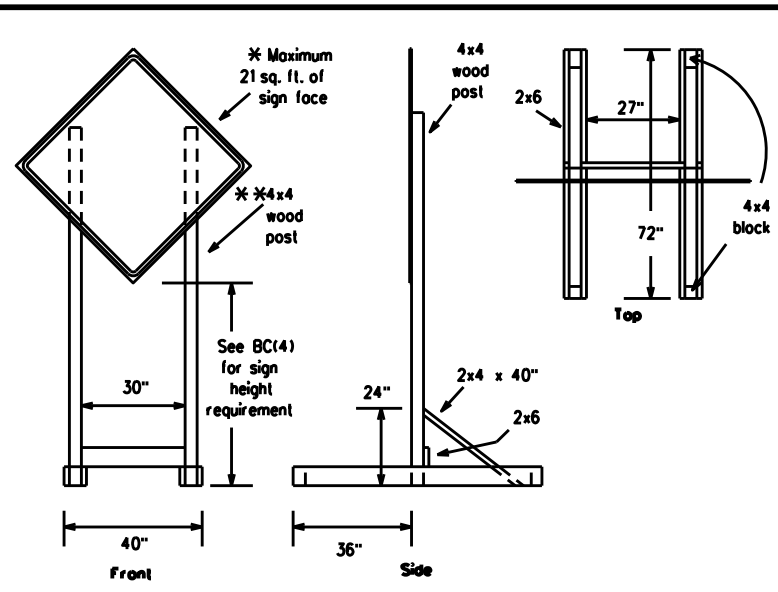
BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES

BC(4)-21

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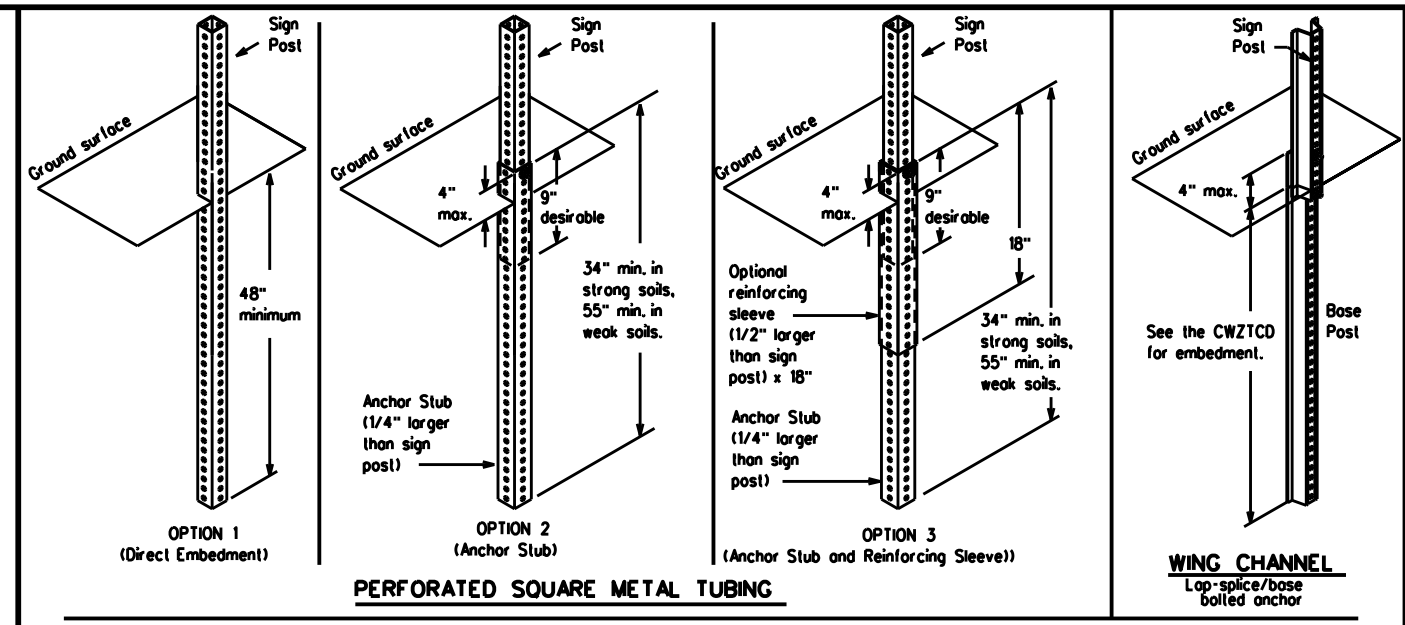
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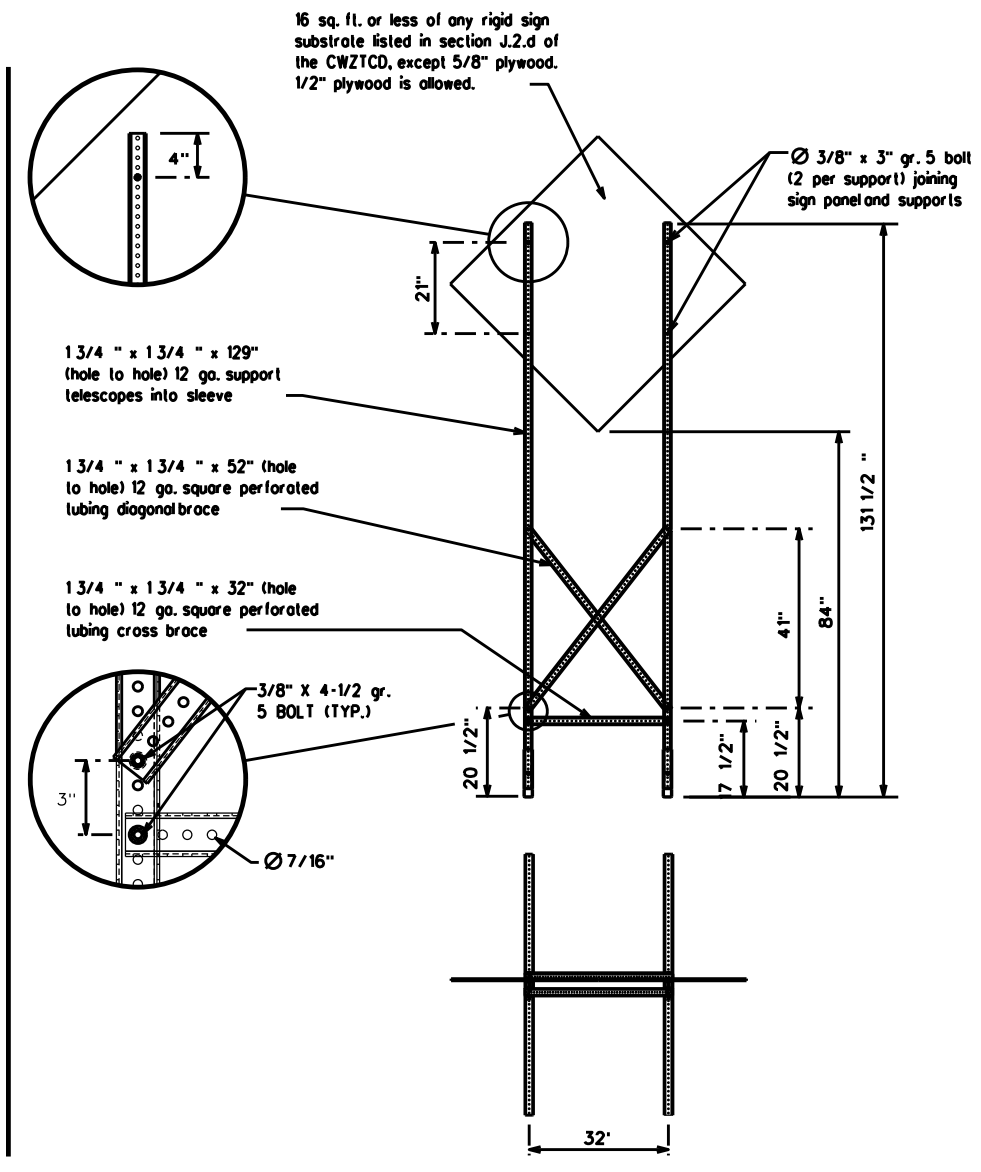
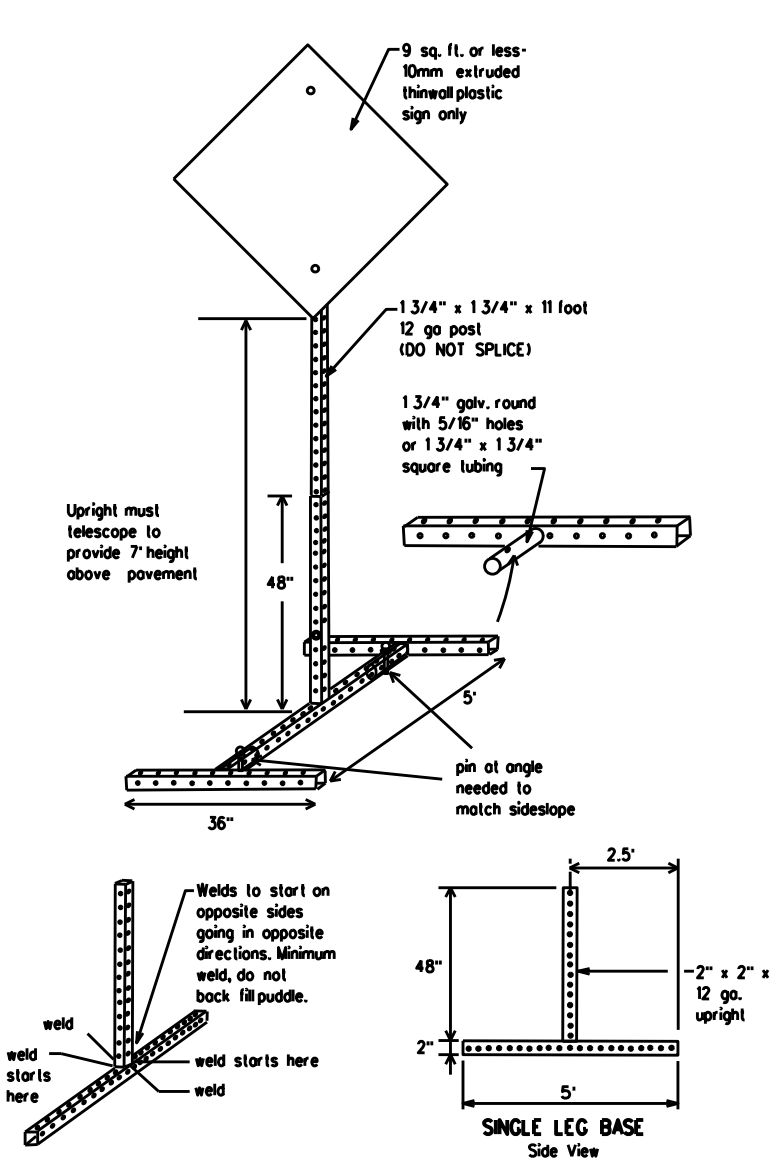
SKID MOUNTED WOOD SIGN SUPPORTS

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



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.

BARRICADE AND CONSTRUCTION TYPICAL SIGN SUPPORT

BC(5)-21

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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

RECOMMENDED PHASES AND FORMATS FOR PCMS MESSAGES DURING ROADWORK ACTIVITIES

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

PORTABLE CHANGEABLE MESSAGE SIGNS

- The Engineer/Inspector shall approve all messages used on portable changeable message signs (PCMS).
- 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.
- 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.
- Use the word "EXIT" to refer to an exit ramp on a freeway; i.e., "EXIT CLOSED." Do not use the term "RAMP."
- Always use the route or interstate designation (IH, US, SH, FM) along with the number when referring to a roadway.
- When in use, the bottom of a stationary PCMS message panel should be a minimum 7 feet above the roadway, where possible.
- 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.
- 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.
- Do not "flash" messages or words included in a message. The message should be steady burn or continuous while displayed.
- 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.
- Do not use the word "Danger" in message.
- Do not display the message "LANES SHIFT LEFT" or "LANES SHIFT RIGHT" on a PCMS. Drivers do not understand the message.
- Do not display messages that scroll horizontally or vertically across the face of the sign.
- 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.
- 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.
- Each line of text should be centered on the message board rather than left or right justified.
- 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.

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WORD OR PHRASE	ABBREVIATION	WORD OR PHRASE	ABBREVIATION
Access Road	ACCS RD	Major	MAJ
Alternate	ALT	Miles	MI
Avenue	AVE	Miles Per Hour	MPH
Best Route	BEST RTE	Minor	MNR
Boulevard	BLVD	Monday	MON
Bridge	BRDG	Normal	NORM
Canal	CANT	North	N
Center	CTR	Northbound	(route) N
Construction Ahead	CONST AHD	Parking	PKING
CROSSING	XING	Road	RD
Detour Route	DETOUR RTE	Right Lane	RT LN
Do Not	DONT	Saturday	SAT
East	E	Service Road	SERV RD
Eastbound	(route) E	Shoulder	SHLDR
Emergency	EMER	Slippery	SLIP
Emergency Vehicle	EMER VEH	South	S
Entrance, Enter	ENT	Southbound	(route) S
Express Lane	EXP LN	Speed	SPD
Expressway	EXPWY	Street	ST
XXXX Feet	XXXX FT	Sunday	SUN
Fog Ahead	FOG AHD	Telephone	PHONE
Freeway	FRWY, FWY	Temporary	TEMP
Freeway Blocked	FWY BLKD	Thursday	THURS
Friday	FRI	To Downtown	TO DWNTN
Hazardous Driving	HAZ DRIVING	Traffic	TRAF
Hazardous Material	HAZMAT	Travelers	TRVLR
High Occupancy Vehicle	HOV	Tuesday	TUES
Highway	HWY	Time Minutes	TIME MIN
Hour(s)	HR, HRS	Upper Level	UPR LEVEL
Information	INFO	Vehicles (s)	VEH, VEHs
It Is	ITS	Warning	WARN
Junction	JCT	Wednesday	WED
Left	LFT	Weight Limit	WT LIMIT
Left Lane	LFT LN	West	W
Lane Closed	LN CLOSED	Westbound	(route) W
Lower Level	LWR LEVEL	Wet Pavement	WET PVMT
Maintenance	MAINT	Will Not	WONT

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

Phase 1: Condition Lists

Road/Lane/Ramp Closure List

FREEWAY CLOSED X MILE
ROAD CLOSED AT SH XXX
ROAD CLSD AT FM XXXX
RIGHT X LANES CLOSED
CENTER LANE CLOSED
NIGHT LANE CLOSURES
VARIOUS LANES CLOSED
EXIT CLOSED
MALL DRIVEWAY CLOSED
XXXXXXXX BLVD CLOSED

Other Condition List

FRONTAGE ROAD CLOSED
SHOULDER CLOSED XXX FT
RIGHT LN CLOSED XXX FT
RIGHT X LANES OPEN
DAYTIME LANE CLOSURES
I-XX SOUTH EXIT CLOSED
EXIT XXX CLOSED X MILE
RIGHT LN TO BE CLOSED
X LANES CLOSED TUE - FRI

* 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
DETOUR NEXT X EXITS
USE EXIT XXX
STAY ON US XXX SOUTH
TRUCKS USE US XXX N
WATCH FOR TRUCKS
EXPECT DELAYS
REDUCE SPEED XXX FT
USE OTHER ROUTES
STAY IN LANE

Location List

AT FM XXXX
BEFORE RAILROAD CROSSING
NEXT X MILES
PAST US XXX EXIT
XXXXXXXX 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

** See Application Guidelines Note 6.

APPLICATION GUIDELINES

- Only 1 or 2 phases are to be used on a PCMS.
- The 1st phase (or both) should be selected from the "Road/Lane/Ramp Closure List" and the "Other Condition List".
- A 2nd phase can be selected from the "Action to Take/Effect on Travel, Location, General Warning, or Advance Notice Phase Lists".
- A Location Phase is necessary only if a distance or location is not included in the first phase selected.
- If two PCMS are used in sequence, they must be separated by a minimum of 1000 ft. Each PCMS should be limited to two phases, and should be understandable by themselves.
- 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

- The words RIGHT, LEFT and ALL can be interchanged as appropriate.
- Roadway designations IH, US, SH, FM and LP can be interchanged as appropriate.
- EAST, WEST, NORTH and SOUTH (or abbreviations E, W, N and S) can be interchanged as appropriate.
- Highway names and numbers replaced as appropriate.
- ROAD, HIGHWAY and FREEWAY can be interchanged as needed.
- AHEAD may be used instead of distances if necessary.
- FT and M, MILE and MILES interchanged as appropriate.
- AT, BEFORE and PAST interchanged as needed.
- 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

- 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.
- When symbol signs, such as the "Flogger 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.
- 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.
- 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.

SHEET 6 OF 12



BARRICADE AND CONSTRUCTION PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

BC(6)-21

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© TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS	6428	42	001	IH-44, ETC.
9-07 8-14	DIST	COUNTY	SHEET NO.	
7-13 5-21	WFS	WICHITA, ETC.	12	

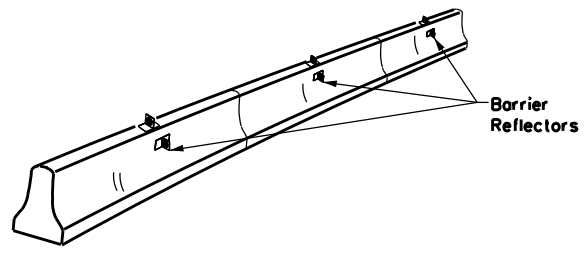
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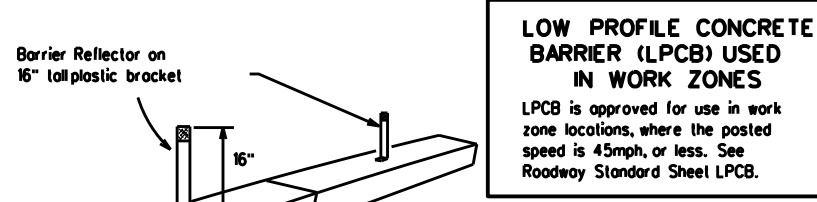
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- Barrier Reflectors shall be pre-qualified, and conform to the color and reflectivity requirements of DMS-8600. A list of prequalified Barrier Reflectors can be found at the Material Producer List web address shown on BC(1).
- Color of Barrier Reflectors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



CONCRETE TRAFFIC BARRIER (CTB)

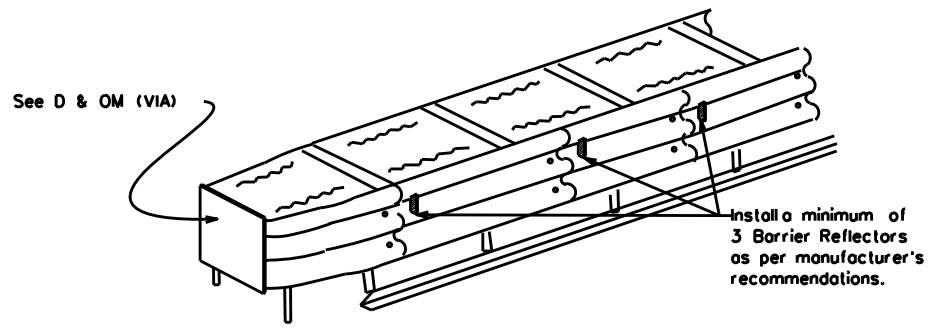
- Where traffic is on one side of the CTB, two (2) Barrier Reflectors shall be mounted in approximately the midsection of each section of CTB. An alternate mounting location is uniformly spaced at one end of each CTB. This will allow for attachment of a barrier grapple without damaging the reflector.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



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.

Barrier Reflector on 16" tall plastic bracket
 Max. spacing of barrier reflectors is 20 feet. Attach the delineators as per manufacturer's recommendations.

LOW PROFILE CONCRETE BARRIER (LPCB)



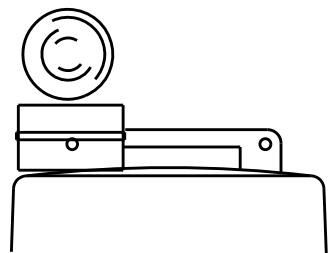
DELINEATION OF END TREATMENTS

END TREATMENTS FOR CTB'S USED IN WORK ZONES
 End treatments used on CTB's in work zones shall meet the appropriate 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

WARNING LIGHTS

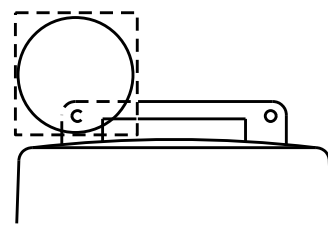
- Warning lights shall meet the requirements of the TMUTCD.
- Warning lights shall NOT be installed on barricades.
- Type A-Low intensity Flashing Warning Lights are commonly used with drums. They are intended to warn of or mark a potentially hazardous area. Their use shall be as indicated on this sheet 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 or C sheeting, meeting the requirements of Departmental Material Specification DMS-8300.
- 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".
- The Engineer/Inspector or the plans shall specify the location and type of warning lights to be installed on the traffic control devices.
- 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.
- 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.
- The location of warning lights and warning reflectors on drums shall be as shown elsewhere in the plans.



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

WARNING LIGHTS MOUNTED ON PLASTIC DRUMS

- Type A flashing warning lights are intended to warn drivers that they are approaching or are in a potentially hazardous area.
- Type A random flashing warning lights are not intended for delineation and shall not be used in a series.
- 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.
- 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.
- Type A, Type C and Type D warning lights shall be installed at locations as detailed on other sheets in the plans.
- Warning lights shall not be installed on a drum that has a sign, chevron or vertical panel.
- The maximum spacing for warning lights on drums should be identical to the channelizing device spacing.



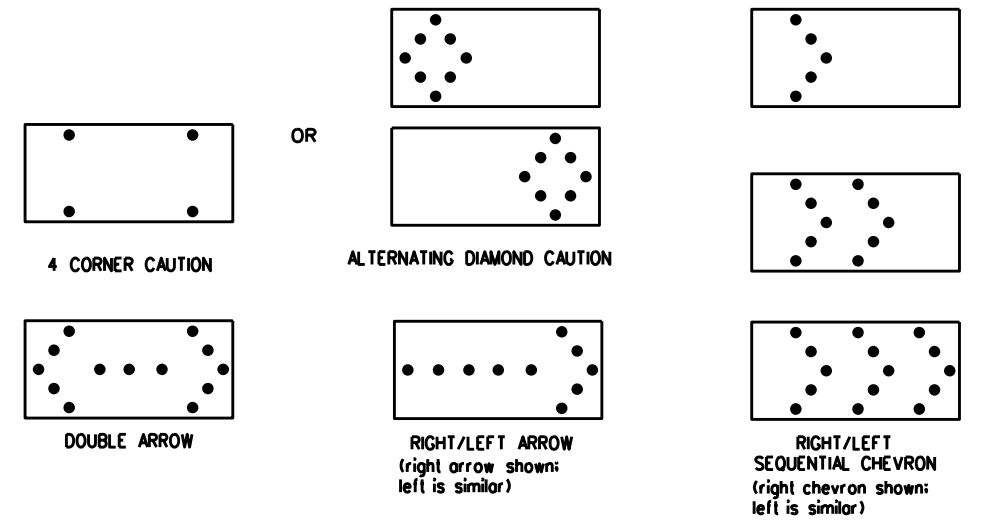
Warning reflector may be round or square. Must have a yellow reflective surface area of at least 30 square inches

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

- 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.
- 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.
- The warning reflector shall have a minimum retroreflective surface area (one-side) of 30 square inches.
- Round reflectors shall be fully reflectorized, including the area where attached to the drum.
- 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.
- 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.
- When used near two-way traffic, both sides of the warning reflector shall be reflectorized.
- The warning reflector should be mounted on the side of the handle nearest approaching traffic.
- 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.

- 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.
- 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.
- 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.
- The Flashing Arrow Board should be able to display the following symbols:



- The "CAUTION" display consists of four corner lamps flashing simultaneously, or the Alternating Diamond Caution mode as shown.
- The straight line caution display is NOT ALLOWED.
- 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.
- 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.
- The sequential arrow display is NOT ALLOWED.
- The flashing arrow display is the TxDOT standard; however, the sequential chevron display may be used during daylight operations.
- The Flashing Arrow Board shall be mounted on a vehicle, trailer or other suitable support.
- A Flashing Arrow Board SHALL NOT BE USED to laterally shift traffic.
- 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.
- 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

- Truck-mounted attenuators (TMA) used on TxDOT facilities must meet the requirements outlined in the Manual for Assessing Safety Hardware (MASH).
- Refer to the CWZTCD for the requirements of Level 2 or Level 3 TMAs.
- Refer to the CWZTCD for a list of approved TMAs.
- TMAs are required on freeways unless otherwise noted in the plans.
- 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.
- 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.



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

BC(7)-21

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7-13	5-21	WFS	WICHITA, ETC.		13				

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GENERAL NOTES

- For long term stationary work zones on freeways, drums shall be used as the primary channelizing device.
- 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.
- 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.
- Drums and 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).
- 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.
- 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:

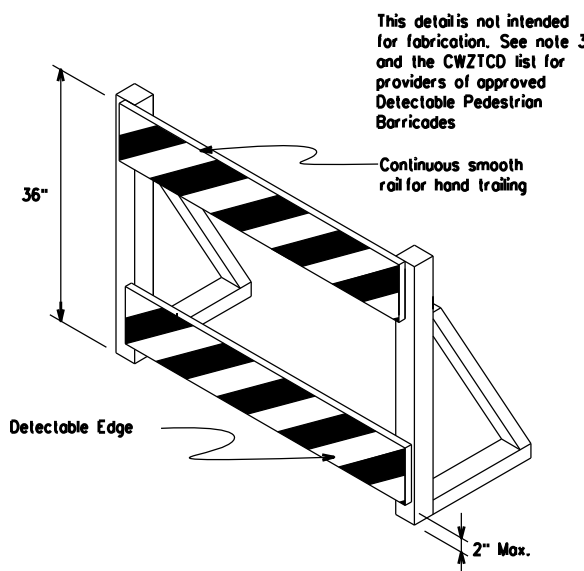
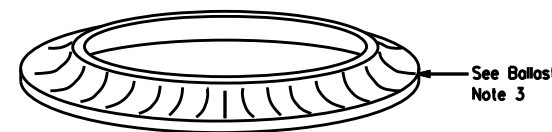
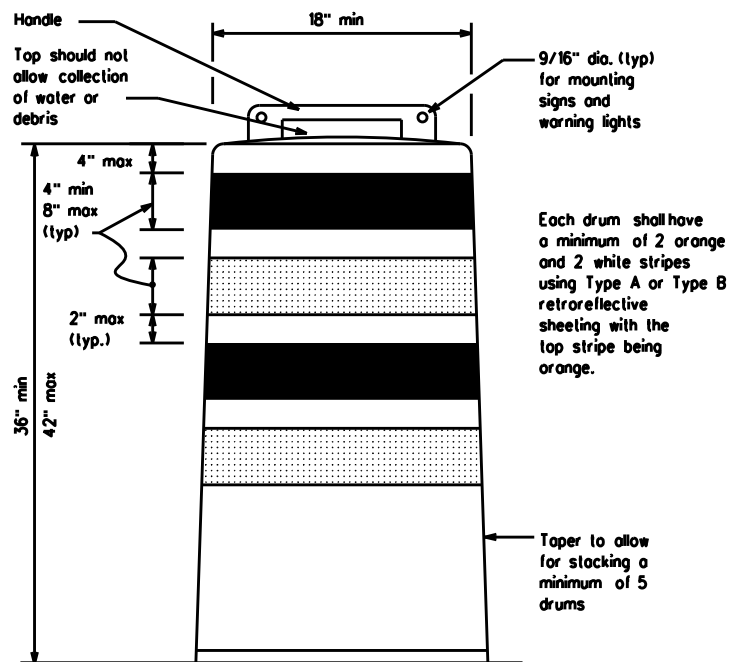
- Plastic drums shall be a two-piece design; the "body" of the drum shall be the top portion and the "base" shall be the bottom.
- The body and base shall lock together in such a manner that the body separates from the base when impacted by a vehicle traveling at a speed of 20 MPH or greater but prevents accidental separation due to normal handling and/or air turbulence created by passing vehicles.
- 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.
- 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.
- 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.
- 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.
- 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.
- Plastic drums shall be constructed of ultra-violet stabilized, orange, high-density polyethylene (HDPE) or other approved material.
- Drum body shall have a maximum unballasted weight of 11 lbs.
- Drum and base shall be marked with manufacturer's name and model number.

RETROREFLECTIVE SHEETING

- 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.
- 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.

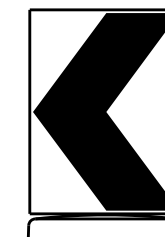
BALLAST

- 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.
- 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.
- Recycled truck tire sidewalls may be used for ballast on drums approved for this type of ballast on the CWZTCD list.
- 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.
- 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.
- Ballast shall not be placed on top of drums.
- Adhesives may be used to secure base of drums to pavement.

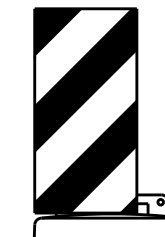


DETECTABLE PEDESTRIAN BARRICADES

- 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.
- 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.
- 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.
- 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.
- Warning lights shall not be attached to detectable pedestrian barricades.
- 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

- Signs used on plastic drums shall be manufactured using substrates listed on the CWZTCD.
- Chevrons and other work zone signs with an orange background shall be manufactured with Type B or Type C Orange sheeting meeting the color and retroreflectivity requirements of DMS-8300, "Sign Face Material," unless otherwise specified in the plans.
- 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.
- 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.
- Signs shall be installed using a 1/2 inch bolt (nominal) and nut, two washers, and one locking washer for each connection.
- Mounting bolts and nuts shall be fully engaged and adequately torqued. Bolts should not extend more than 1/2 inch beyond nuts.
- 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 of each location called for in the plans.
- 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.

SHEET 8 OF 12



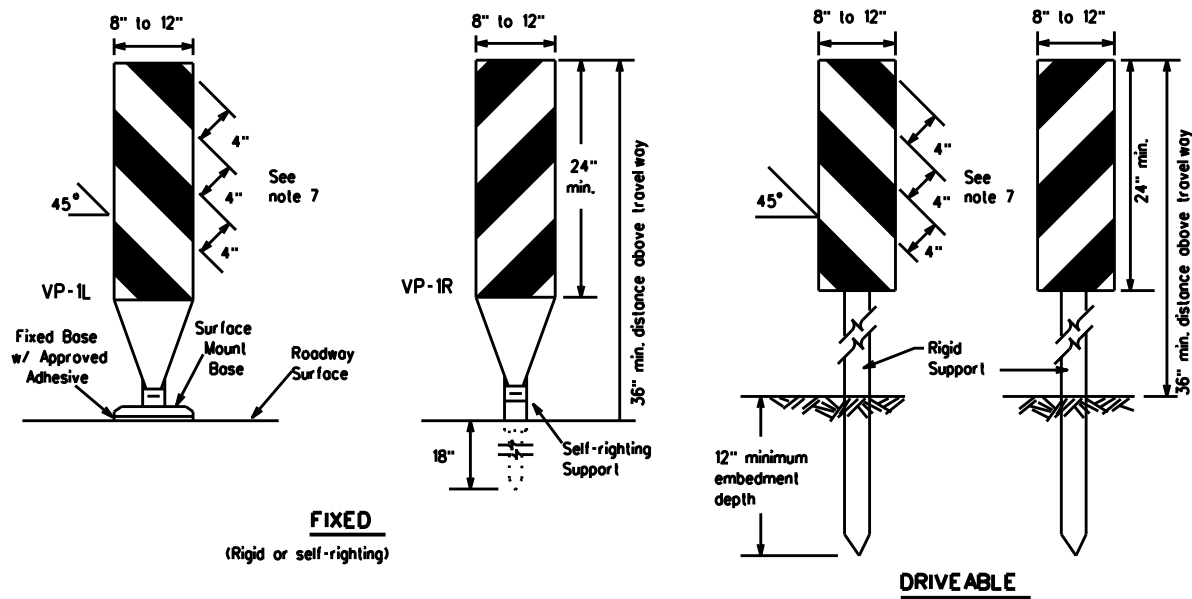
BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(8)-21

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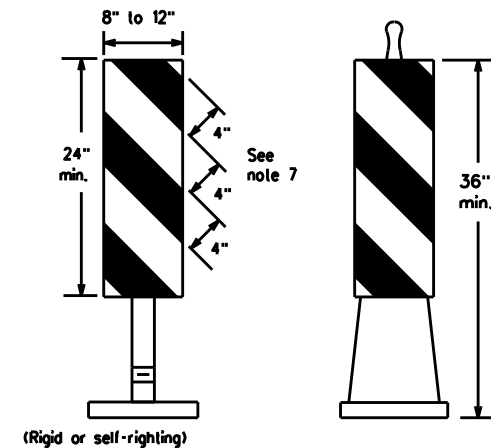
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(Rigid or self-righting)

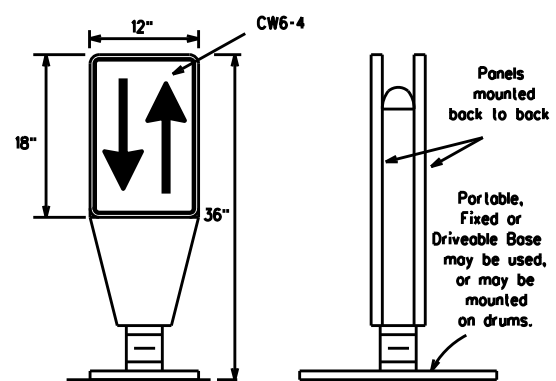
DRIVEABLE



PORTABLE

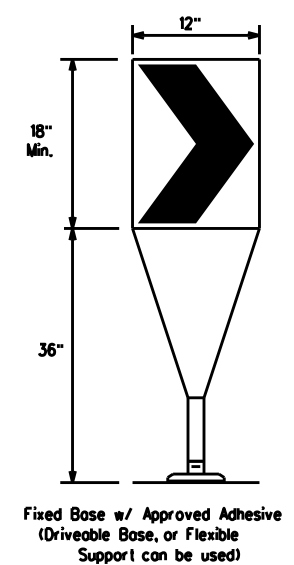
VERTICAL PANELS (VPs)

- Vertical Panels (VP's) are normally used to channelize traffic or divide opposing lanes of traffic.
- 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.
- 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.
- VP's used on expressways and freeways or other high speed roadways, may have more than 270 square inches of retroreflective area facing traffic.
- Self-righting supports are available with portable base. See "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
- Sheeting for the VP's shall be retroreflective Type A or Type B conforming to Departmental Material Specification DMS-8300, unless noted otherwise.
- Where the height of reflective material on the vertical panels is 36 inches or greater, a panel stripe of 6 inches shall be used.



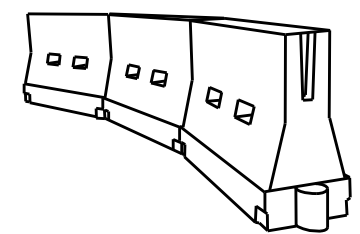
OPPOSING TRAFFIC LANE DIVIDERS (OTLD)

- 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.
- The OTLD may be used in combination with 42" cones or VPs.
- Spacing between the OTLD shall not exceed 500 feet. 42" cones or VPs placed between the OTLD's should not exceed 100 foot spacing.
- The OTLD shall be orange with a black non-reflective legend. Sheeting for the OTLD shall be retroreflective Type B or Type C conforming to Departmental Material Specification DMS-8300, unless noted otherwise. The legend shall meet the requirements of DMS-8300.



CHEVRONS

- The chevron shall be a vertical rectangle with a minimum size of 12 by 18 inches.
- 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.
- 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.
- To be effective, the chevron should be visible for at least 500 feet.
- Chevrons shall be orange with a black nonreflective legend. Sheeting for the chevron shall be retroreflective Type B or Type C conforming to Departmental Material Specification DMS-8300, unless noted otherwise. The legend shall meet the requirements of DMS-8300.
- 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.



LONGITUDINAL CHANNELIZING DEVICES (LCD)

- 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.
- LCDs may be used instead of a line of cones or drums.
- LCDs shall be placed in accordance to application and installation requirements specific to the device, and used only when shown on the CWZTCD list.
- LCDs should not be used to provide positive protection for obstacles, pedestrians or workers.
- LCDs shall be supplemented with retroreflective delineation as required for temporary barriers on BC(7) when placed roughly parallel to the travel lanes.
- 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

- 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.
- 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.
- 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.
- 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.
- 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 cones 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

GENERAL NOTES

- 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).
- 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.
- 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).
- 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.
- Portable bases shall be fabricated from virgin and/or recycled rubber. The portable bases shall weigh a minimum of 30 lbs.
- 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.
- 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.

Posted Speed	Formula	Minimum Desirable Taper Lengths			Suggested Maximum Spacing of Channelizing Devices	
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent
30	L = 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'	

x x 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

SHEET 9 OF 12



BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(9)-21

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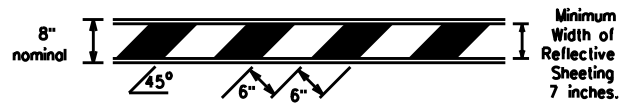
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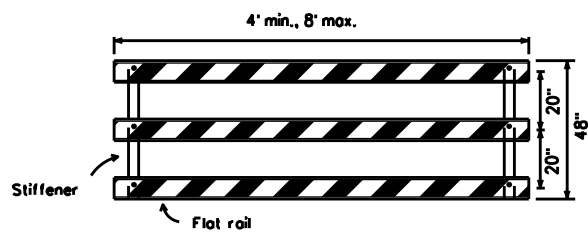
TYPE 3 BARRICADES

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.

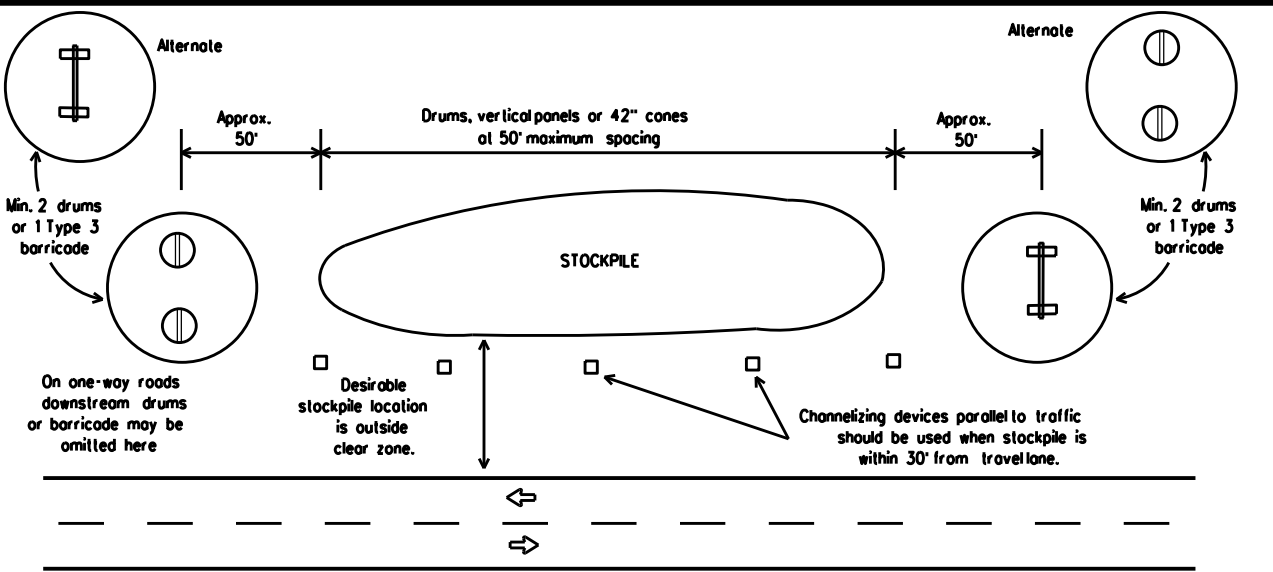
Barricades shall NOT be used as a sign support.



TYPICAL STRIPING DETAIL FOR BARRICADE RAIL

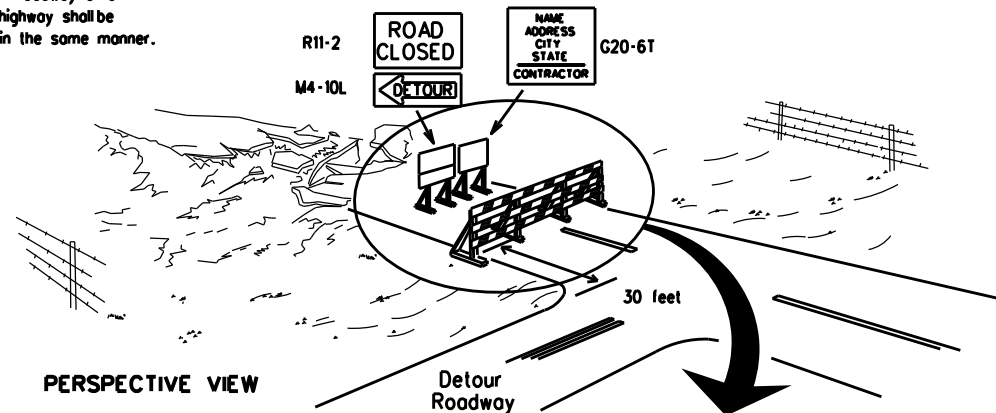


TYPICAL PANEL DETAIL FOR SKID OR POST TYPE BARRICADES



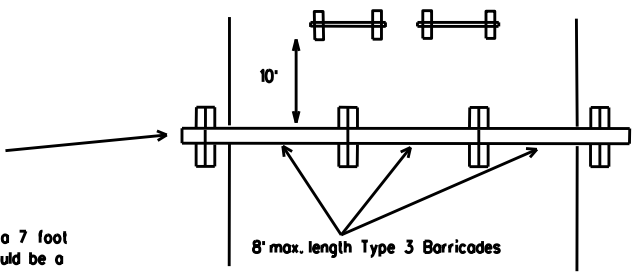
TRAFFIC CONTROL FOR MATERIAL STOCKPILES

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



PERSPECTIVE VIEW

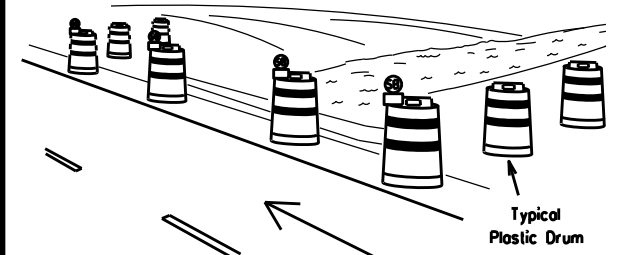
The three rails on Type 3 barricades shall be reflectorized orange and reflective white stripes on one side facing one-way traffic and both sides for two-way traffic. Barricade striping should slant downward in the direction of detour.



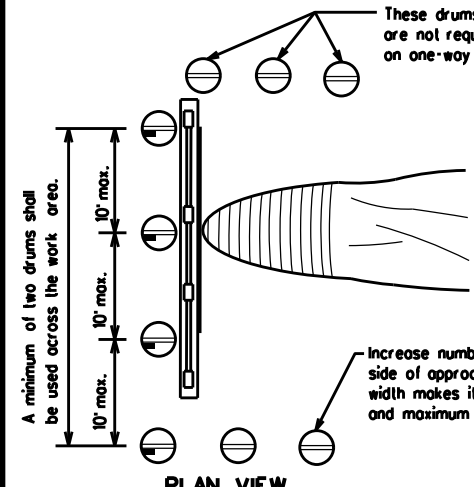
PLAN VIEW

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

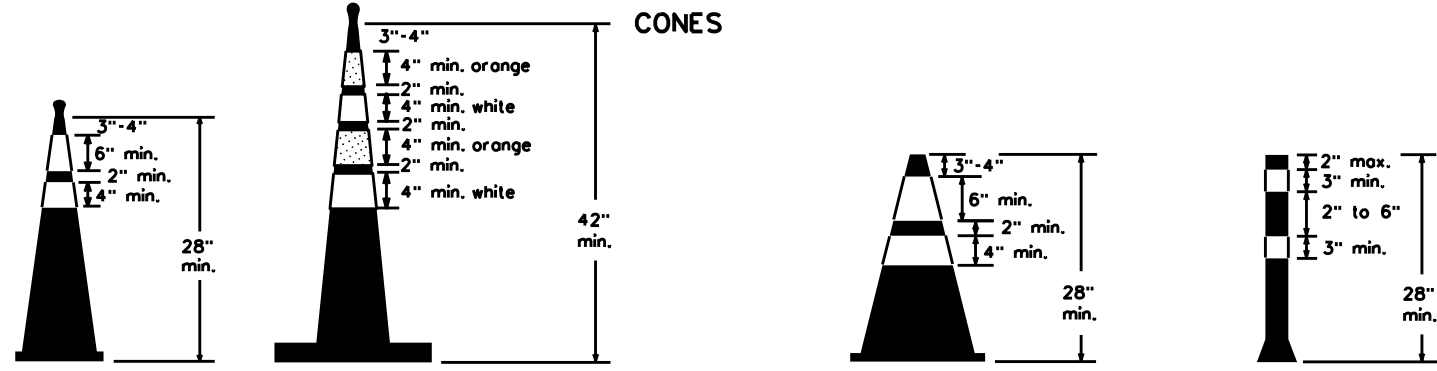


PLAN VIEW

CULVERT WIDENING OR OTHER ISOLATED WORK WITHIN THE PROJECT LIMITS

1. Where positive redirection 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.

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



Two-Piece cones

One-Piece cones

Tubular Marker

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 in 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.



BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(10)-21

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WORK ZONE PAVEMENT MARKINGS

GENERAL

- 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.
- Color, patterns and dimensions shall be in conformance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- Additional supplemental pavement marking details may be found in the plans or specifications.
- Pavement markings shall be installed in accordance with the TMUTCD and as shown on the plans.
- 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).
- 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.
- All work zone pavement markings shall be installed in accordance with Item 662, "Work Zone Pavement Markings."

RAISED PAVEMENT MARKERS

- Raised pavement markers are to be placed according to the patterns on BC(12).
- 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

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

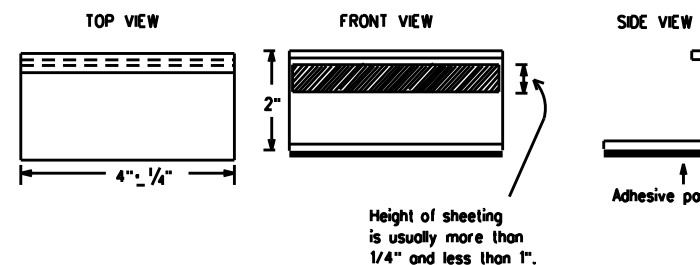
MAINTAINING WORK ZONE PAVEMENT MARKINGS

- The Contractor will be responsible for maintaining work zone pavement markings within the work limits.
- 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.
- 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.
- 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

- 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.
- 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.
- 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".
- The removal of pavement markings may require resurfacing or seal coating portions of the roadway as described in Item 677.
- Subject to the approval of the Engineer, any method that proves to be successful on a particular type pavement may be used.
- Blast cleaning may be used but will not be required unless specifically shown in the plans.
- Over-painting of the markings SHALL NOT BE permitted.
- Removal of raised pavement markers shall be as directed by the Engineer.
- 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.
- Block-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**

- Temporary flexible-reflective roadway marker tabs used as guidemarks shall meet the requirements of DMS-8242.
- 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.
 - 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.
 - 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.
- Small design variances may be noted between tab manufacturers.
- 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

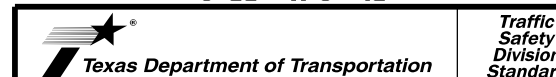
- Raised pavement markers used as guidemarks shall be from the approved product list, and meet the requirements of DMS-4200.
- All temporary construction raised pavement markers provided on a project shall be of the same manufacturer.
- Adhesive for guidemarks shall be bituminous material hot applied 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).

SHEET 11 OF 12



BARRICADE AND CONSTRUCTION PAVEMENT MARKINGS

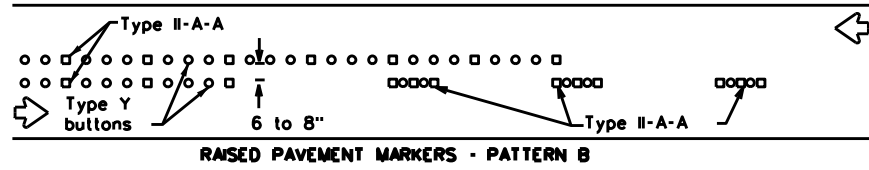
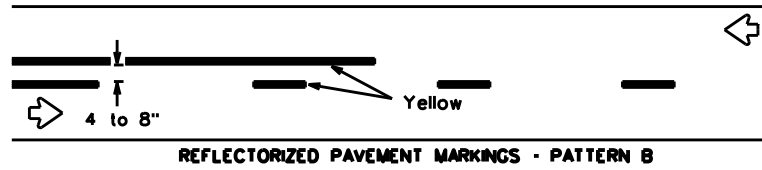
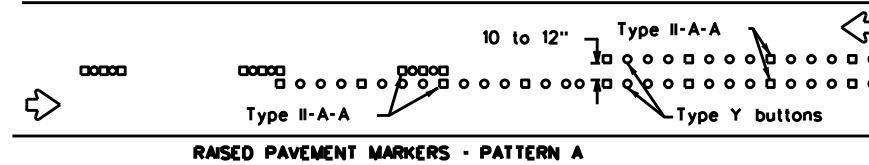
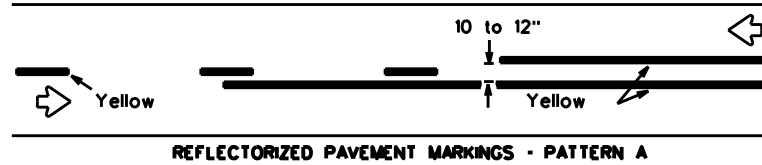
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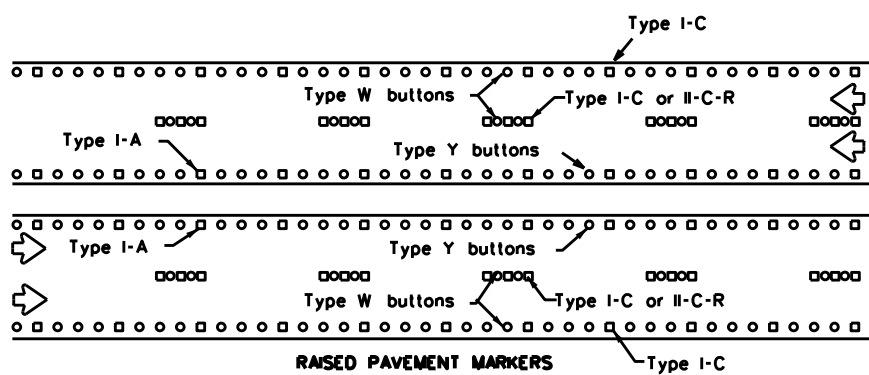
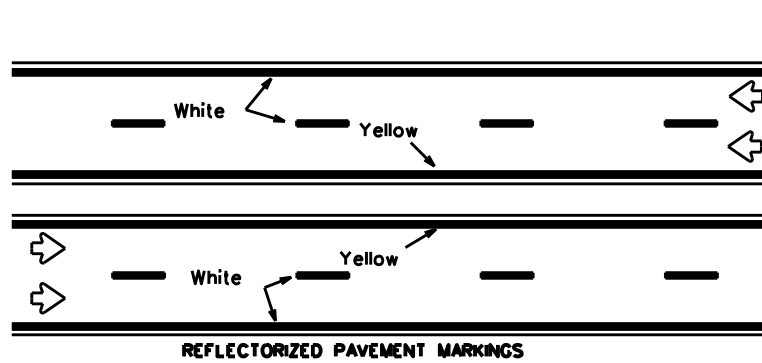
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PAVEMENT MARKING PATTERNS



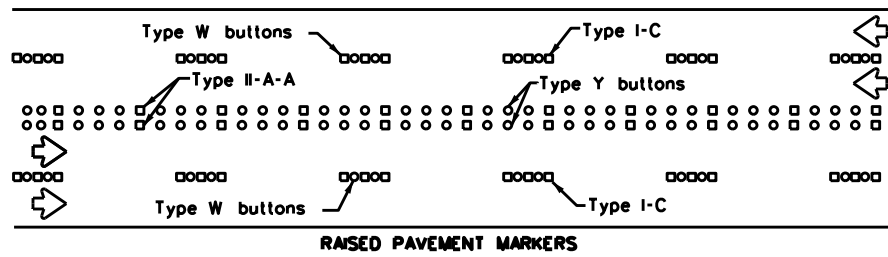
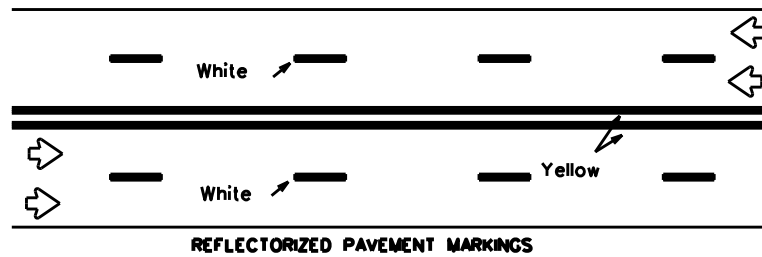
Pattern A is the TXDOT Standard, however Pattern B may be used if approved by the Engineer. Prefabricated markings may be substituted for reflectorized pavement markings.

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



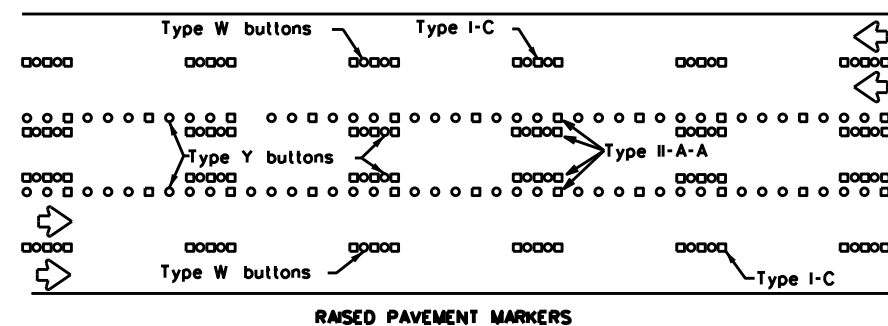
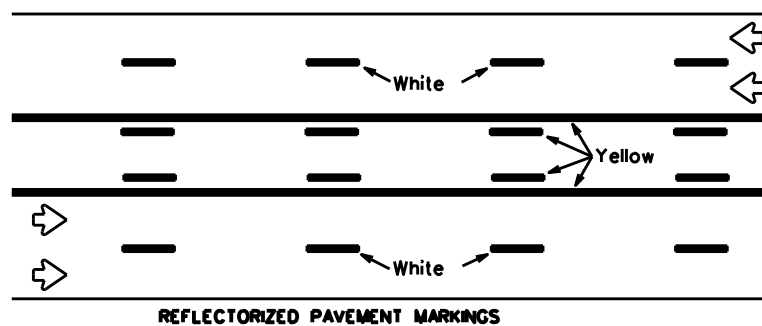
Prefabricated markings may be substituted for reflectorized pavement markings.

EDGE & LANE LINES FOR DIVIDED HIGHWAY



Prefabricated markings may be substituted for reflectorized pavement markings.

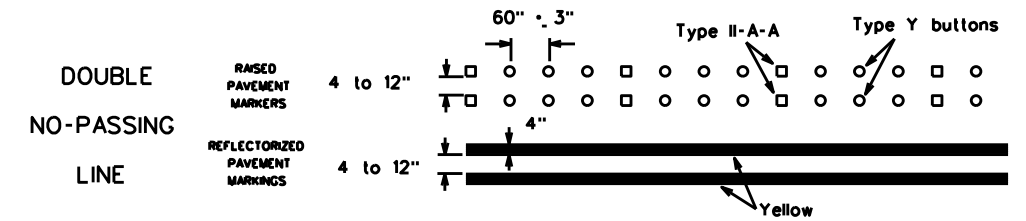
LANE & CENTER LINES FOR MULTILANE UNDIVIDED HIGHWAYS



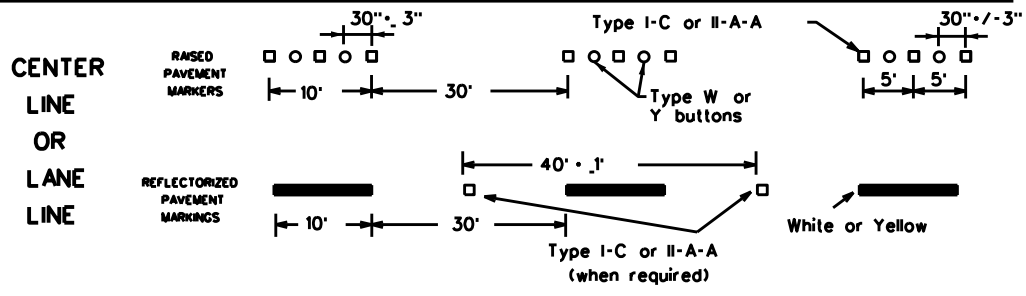
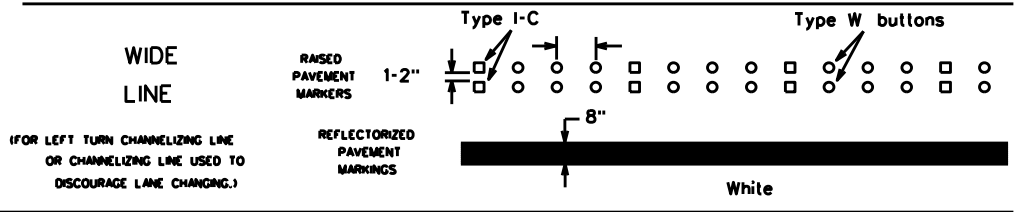
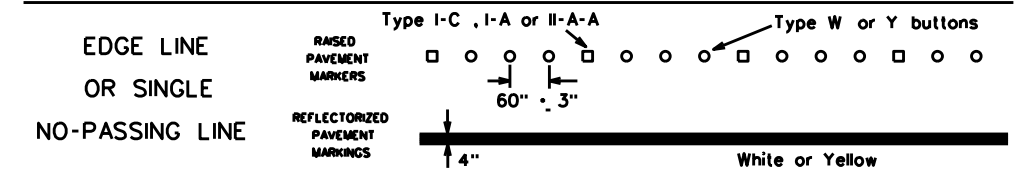
Prefabricated markings may be substituted for reflectorized pavement markings.

TWO-WAY LEFT TURN LANE

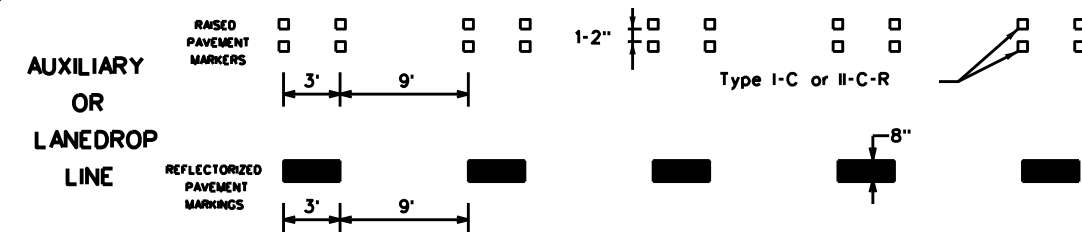
STANDARD WORK ZONE PAVEMENT MARKINGS DETAILS



SOLID LINES

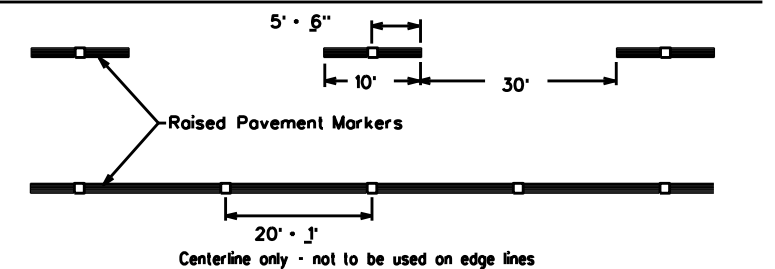


BROKEN LINES



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.



SHEET 12 OF 12



BARRICADE AND CONSTRUCTION PAVEMENT MARKING PATTERNS

BC(12)-21

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."

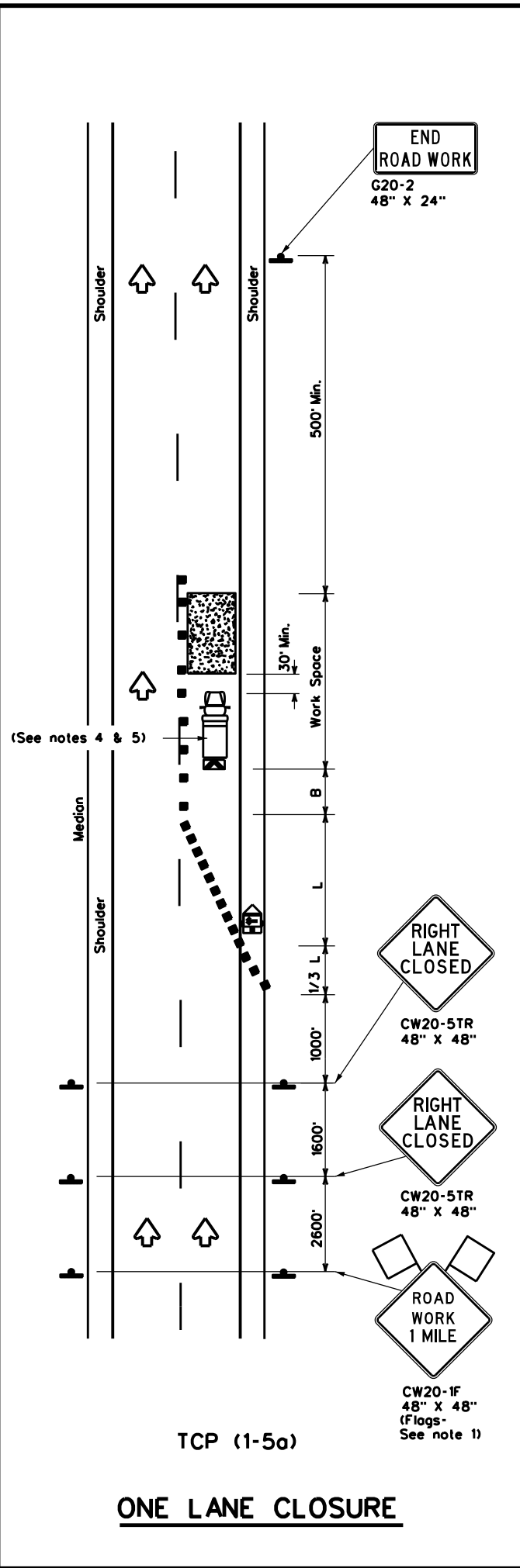
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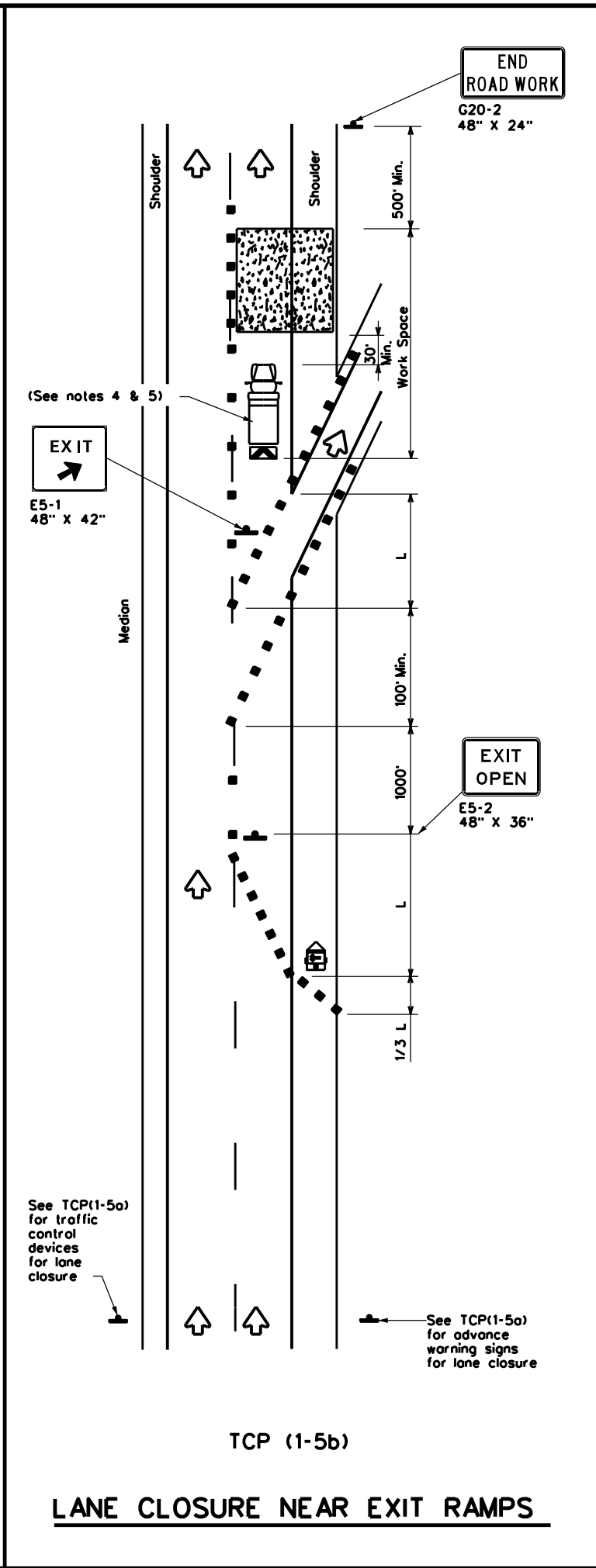
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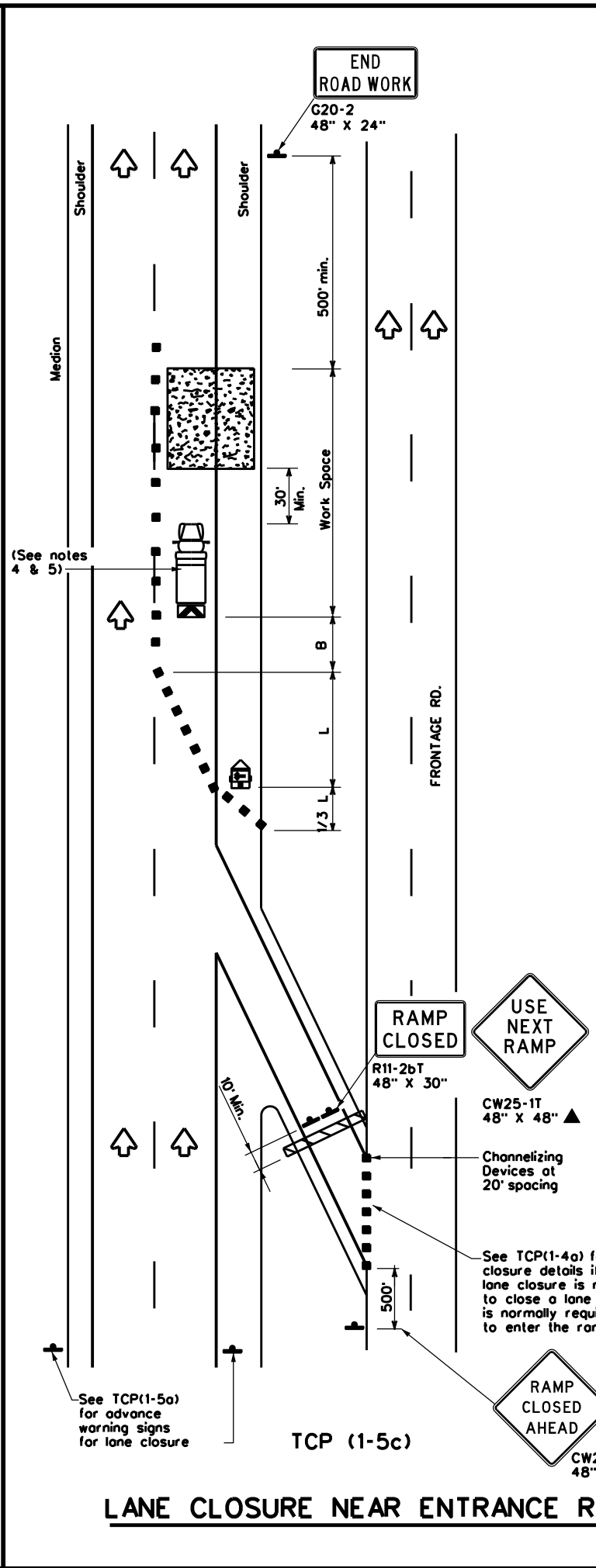
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 FILE: T:\WFSMAINT\Maintenance Projects\6428-42-001 Lg Sign Rplcmt FY2024\4 - 06428-42-001.dgn



ONE LANE CLOSURE



LANE CLOSURE NEAR EXIT RAMP



LANE CLOSURE NEAR ENTRANCE 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 x	Formula	Minimum Desirable Taper Lengths x			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "x" Distance	Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	L = 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'

x Conventional Roads Only
 xx 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**
- Flags attached to signs where shown, are REQUIRED.
 - 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.
 - Channelizing devices used to close lanes may be supplemented with the Chevron Alignment Sign placed on every other channelizing device. Chevrons may be attached to plastic drums as per BC Standards.
 - Shadow Vehicle with TMA and high intensity rotating, flashing, oscillating or strobe lights. 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.
 - Additional Shadow Vehicles with TMAs may be positioned in each closed lane, on the shoulder or off the paved surface, next to those shown in order to protect a wider work space.

Texas Department of Transportation

Traffic Operations Division Standard

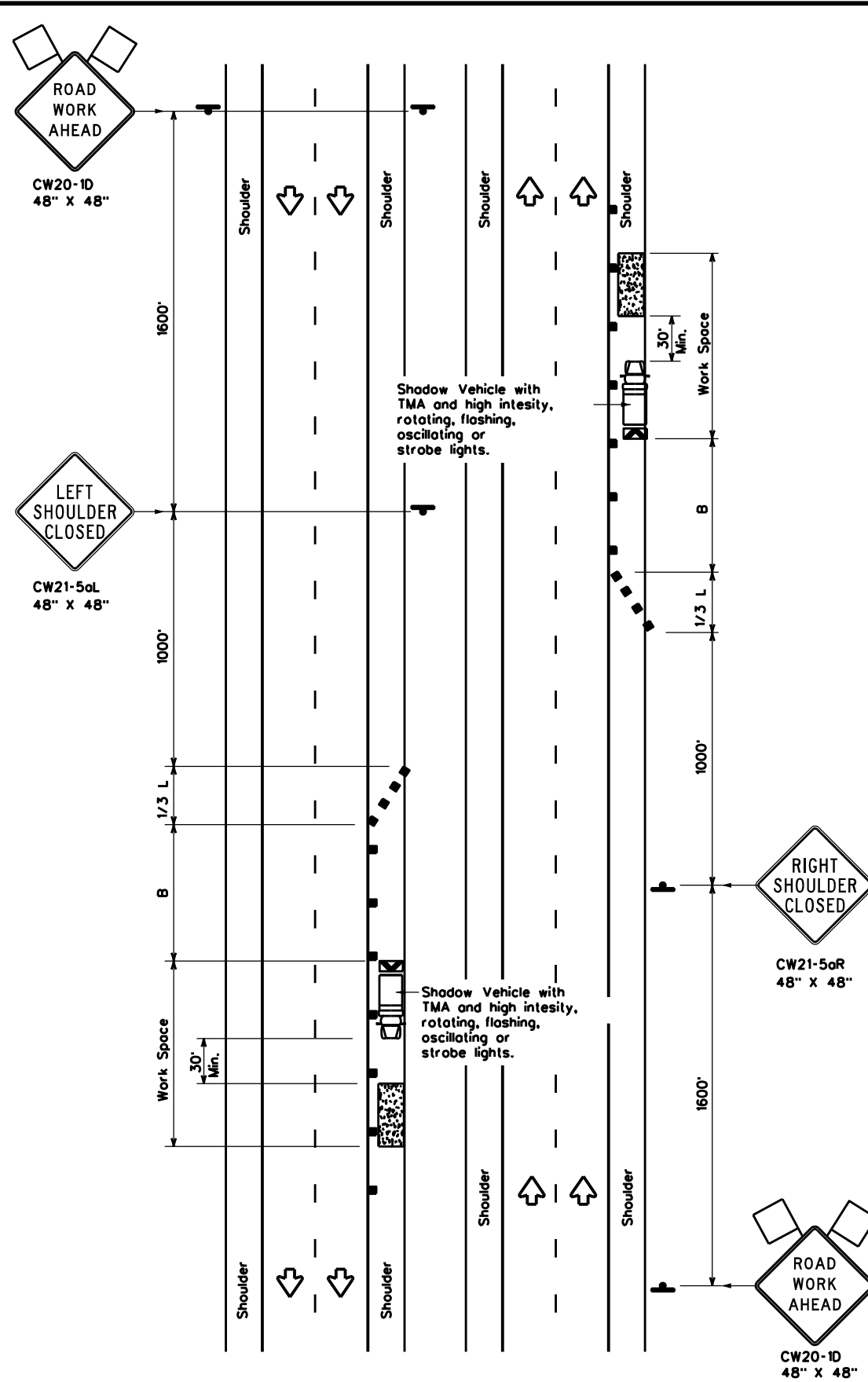
TRAFFIC CONTROL PLAN LANE CLOSURES FOR DIVIDED HIGHWAYS

TCP(1-5)-18

FILE: tcp1-5-18.dgn	DN:	CK:	DW:	CK:
© TxDOT February 2012	CONT	SECT	JOB	HIGHWAY
2-18	REVISIONS	6428	42	001
	DIST	COUNTY		SHEET NO.
	WFS	WICHITA, ETC.		19

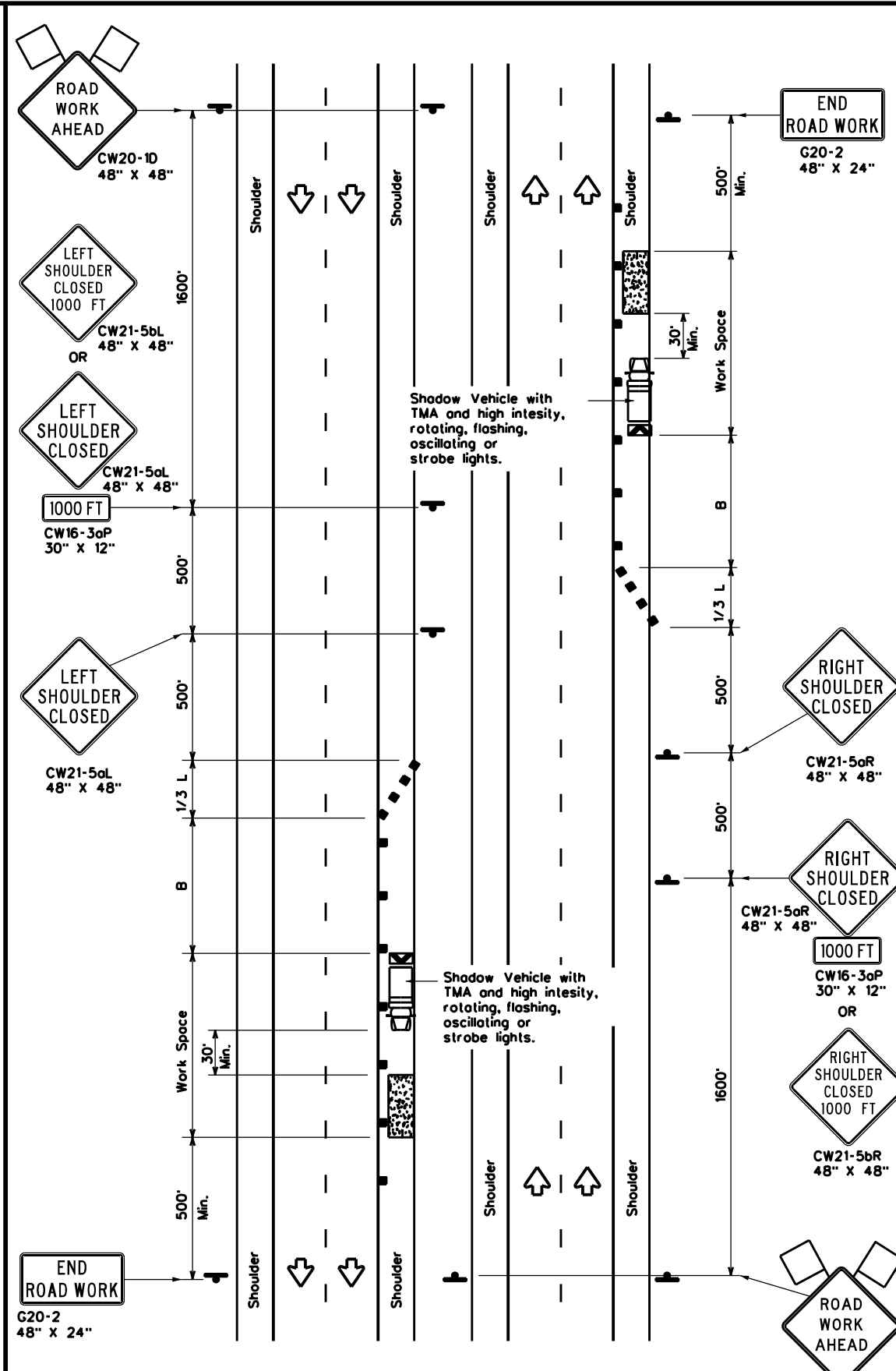
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DATE: 4/19/2024 1:19:19 PM
 FILE: T:\WFSMAINT\Maintenance Projects\6428-42-001 Lg Sign Rplcmt FY2024\4 - 06428-42-001-01-01.dwg



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 x	Formula	Minimum Desirable Taper Lengths x x			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 · 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'

x Conventional Roads Only
 x x 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 affecting 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.



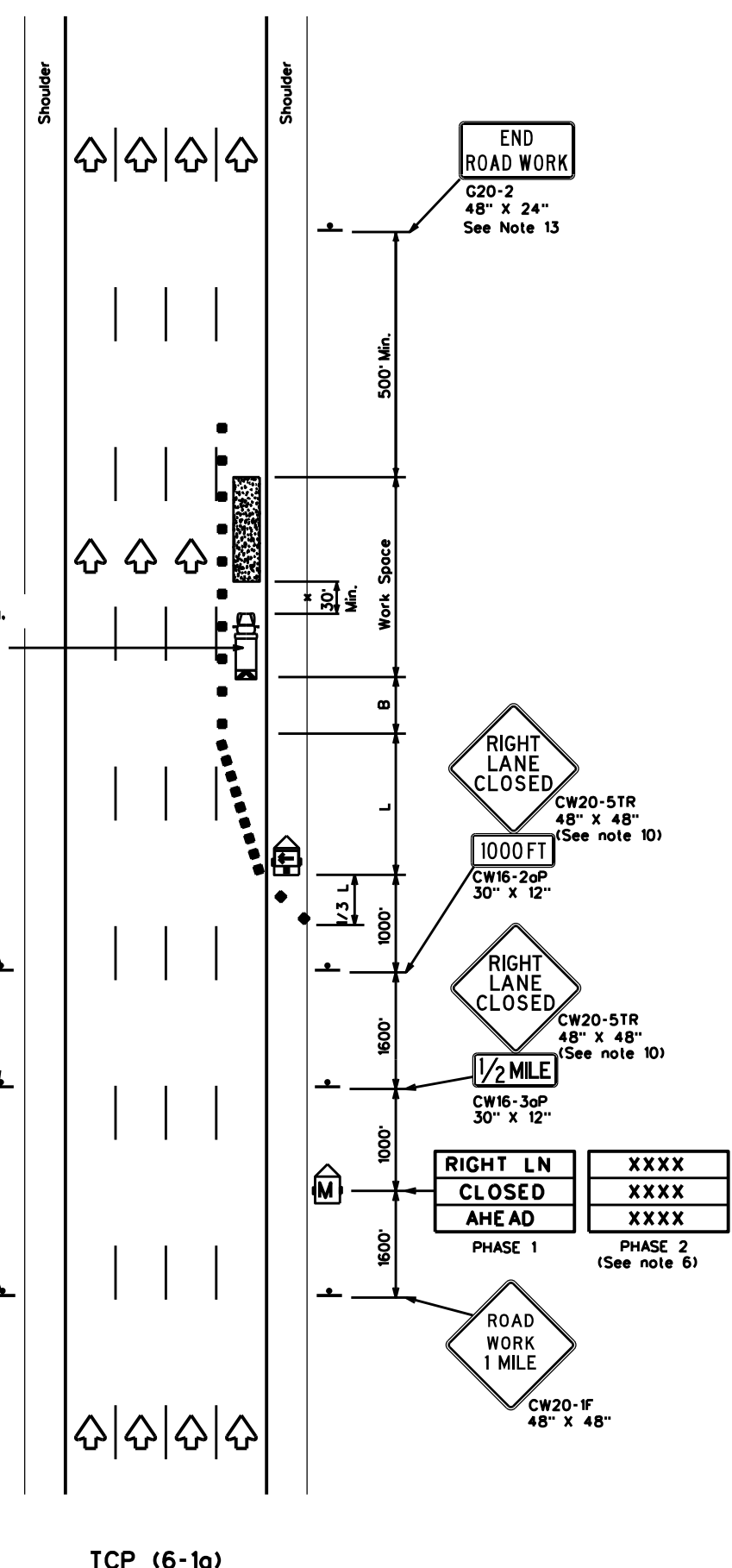
**TRAFFIC CONTROL PLAN
 SHOULDER WORK FOR
 FREEWAYS / EXPRESSWAYS**

TCP(5-1)-18

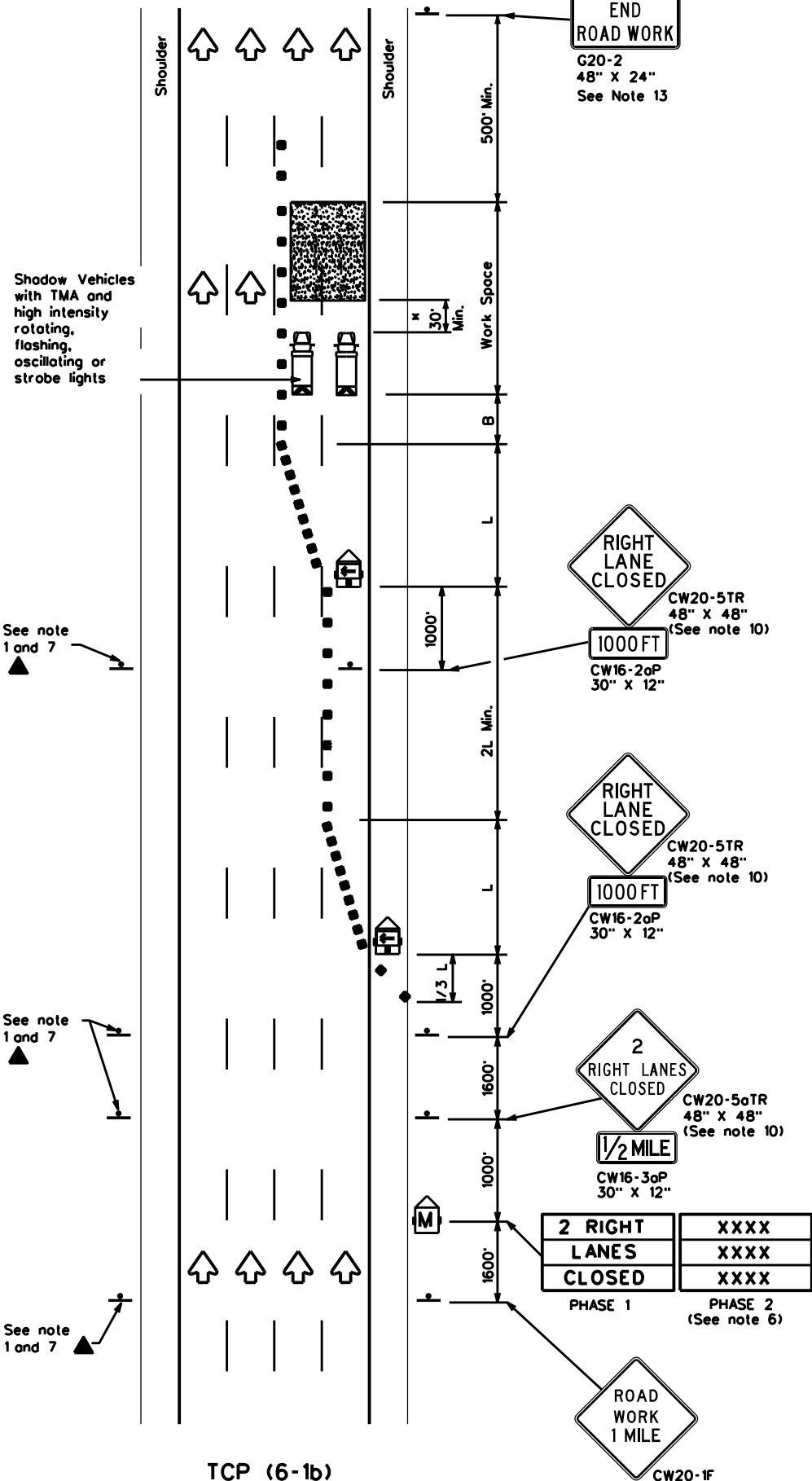
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© TxDOT February 2012	CONT	SECT	JOB	HIGHWAY
REVISIONS	6428	42	001	IH-44, ETC.
2-18	DIST	COUNTY	SHEET NO.	
	WFS	WICHITA, ETC.	20	

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DATE: 4/19/2024 1:19:19 PM
 FILE: I:\WFS\MAINT\Maintenance Projects\6428-42-001 Lq Sign Rplcmt FY2024\4 - 06428-42-001-001.dgn



TCP (6-1a)
**TYPICAL FREEWAY
 ONE LANE CLOSURE**



TCP (6-1b)
**TYPICAL FREEWAY
 TWO LANE CLOSURE**

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'

xx 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

- All traffic control devices illustrated are REQUIRED. Devices denoted with the triangle symbol may be omitted when stated elsewhere in the plans.
- 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.
- All construction signs and barricades placed during any phase of work shall remain in place until removal is approved by the Engineer.
- The Engineer may direct the Contractor to furnish additional signs and barricades as required to maintain traffic flow, detours and motorist safety during construction.
- 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.
- 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.
- Duplicate construction warning signs should be erected on the median side of freeways where median width will permit and traffic volume justifies the signing.
- 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.
- Warning signs for intermediate term stationary work should be mounted at 7' to the bottom of the sign.
- Warning signs shown shall be appropriately altered for left lane closures. When signs are mounted at 7' 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.
- 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.
- 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.
- 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.



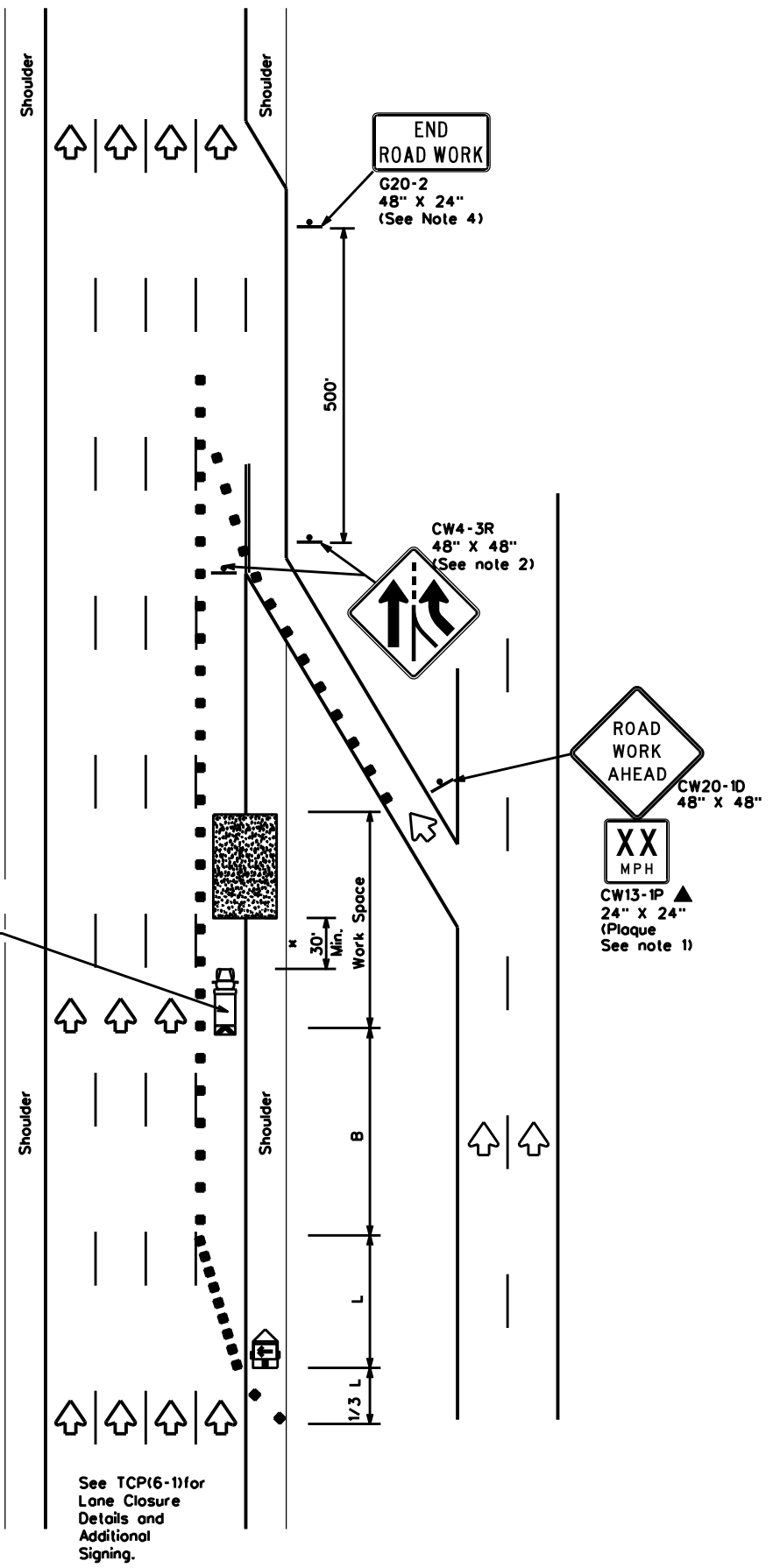
**TRAFFIC CONTROL PLAN
 FREEWAY LANE CLOSURES**

TCP(6-1)-12

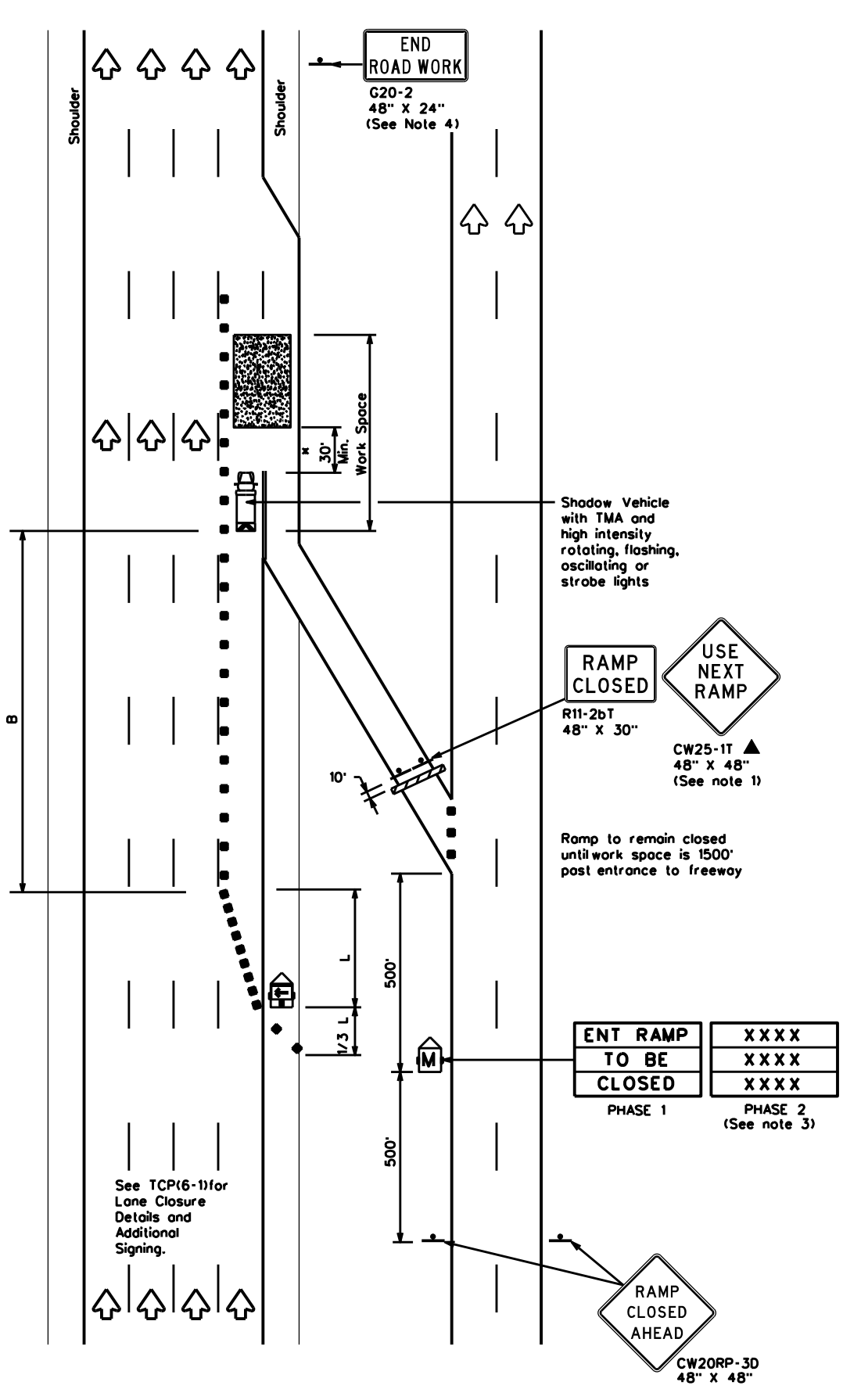
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© TxDOT	February 1998	CONT:	SECT:	JOB:	HIGHWAY				
8-12	REVISIONS	6428	42	001	IH-44, ETC.				
	DIST:	COUNTY:		SHEET NO.					
	WFS	WICHITA, ETC.		21					

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DATE: 4/19/2024 1:19:19 PM
 FILE: I:\WFSMAINT\Maintenance Projects\6428-42-001 Lq Sign Rplcmt FY2024\4 - 06-19-2024.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		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'

xx 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

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

x 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.



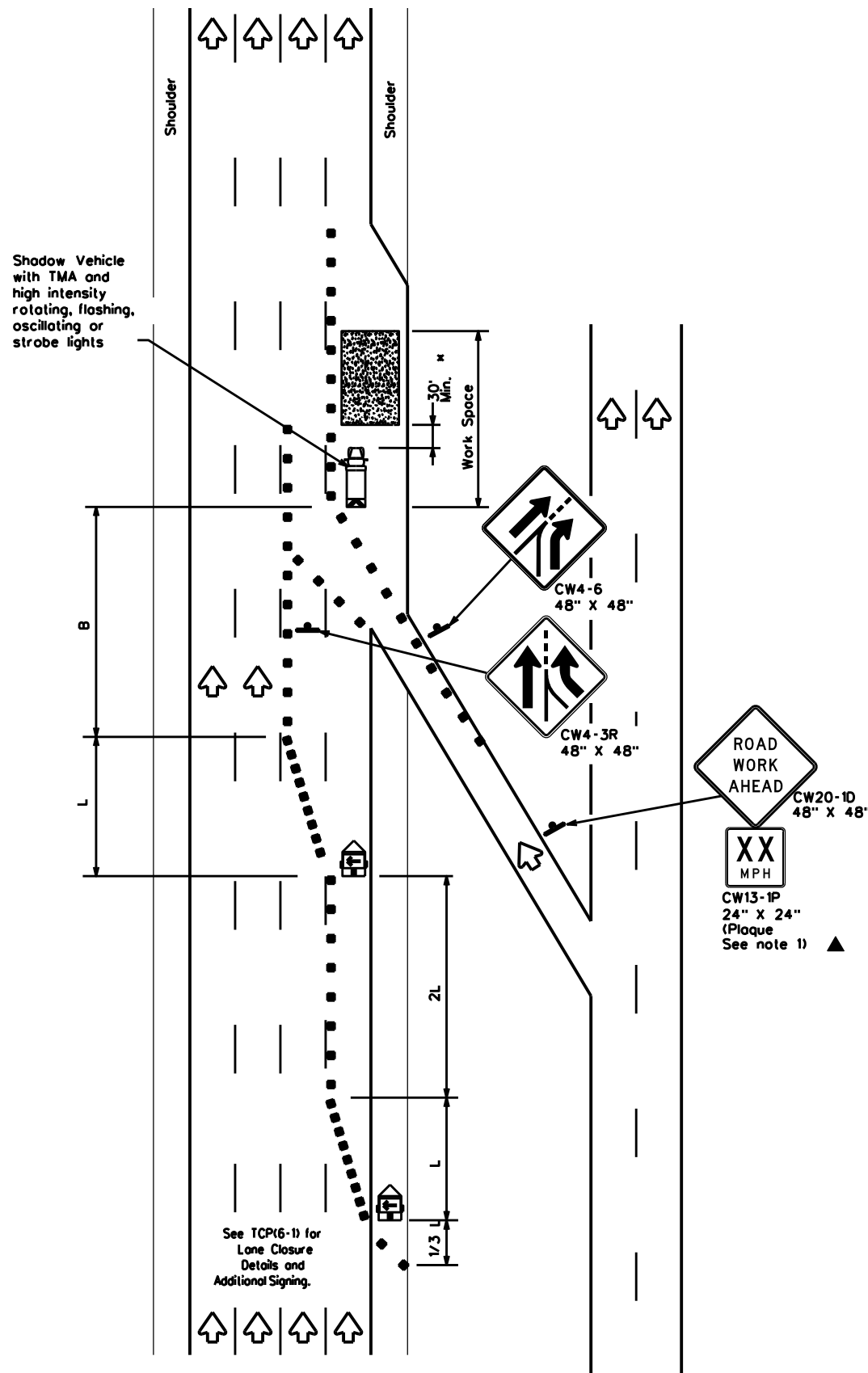
TRAFFIC CONTROL PLAN
WORK AREA NEAR RAMP

TCP(6-2)-12

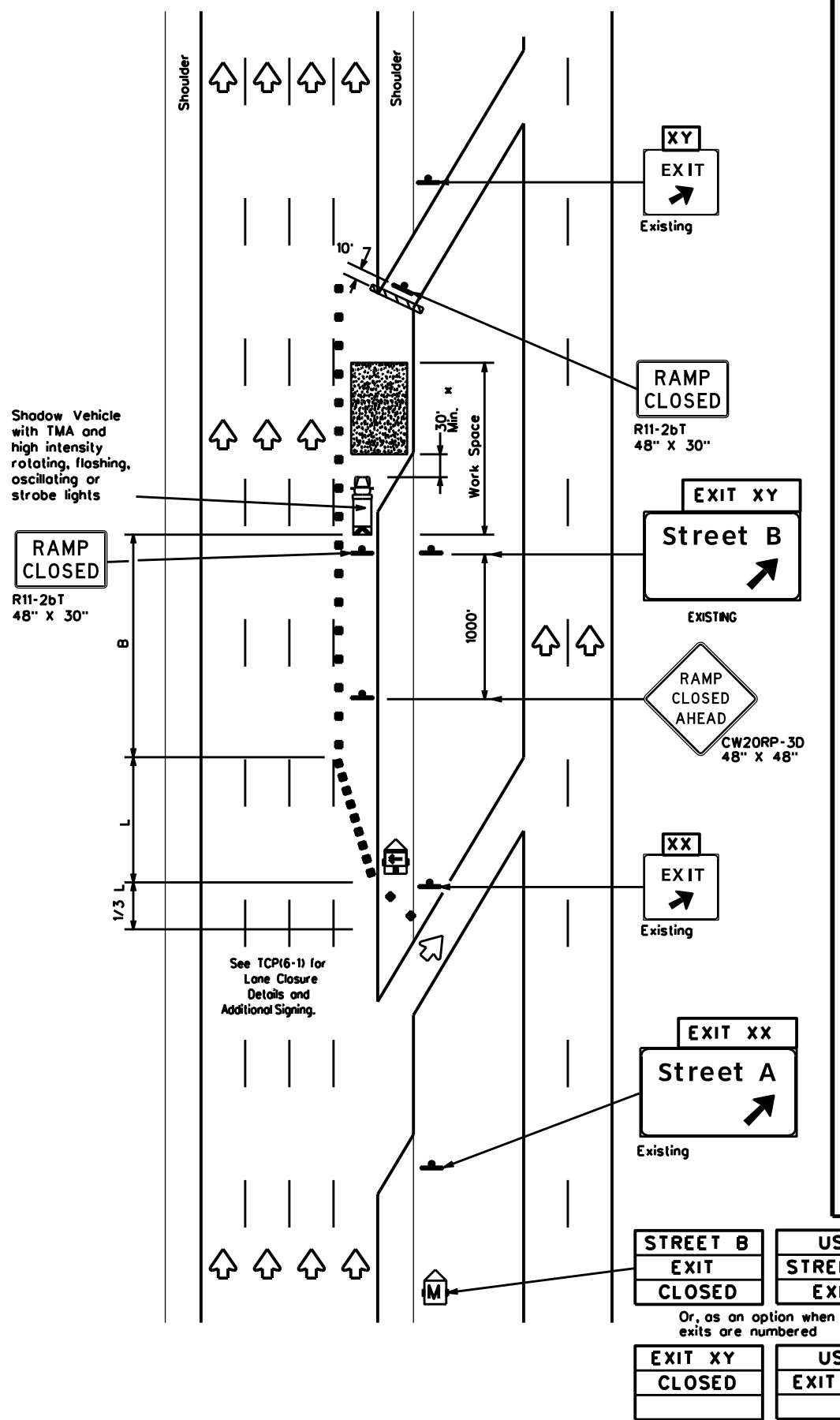
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© TxDOT February 1994	CONT	SECT	JOB	HIGHWAY
REVISIONS	6428	42	001	IH-44, ETC.
1-97 8-98	DIST	COUNTY	SHEET NO.	
4-98 8-12	WFS	WICHITA, ETC.	22	

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DATE: 4/19/2024 1:19:20 PM
FILE: I:\WFSMAINT\Maintenance Projects\6428-42-001 Lq Sign Rplcmt FY2024\4 - 06428-42-001.dgn



TCP (6-3a)
ENTRANCE RAMP OPEN



TCP (6-3b)
EXIT RAMP CLOSED
TRAFFIC EXITS PRIOR TO CLOSED RAMP

STREET B EXIT CLOSED	USE STREET A EXIT
EXIT XY CLOSED	USE EXIT XX

Or, as an option when exits are numbered

Place 1 mile (approx.)
in advance of Street A
exit.

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'

x x Taper lengths have been rounded off.
L- Length of Taper(F) W- Width of Offset(F) 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.

x 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.



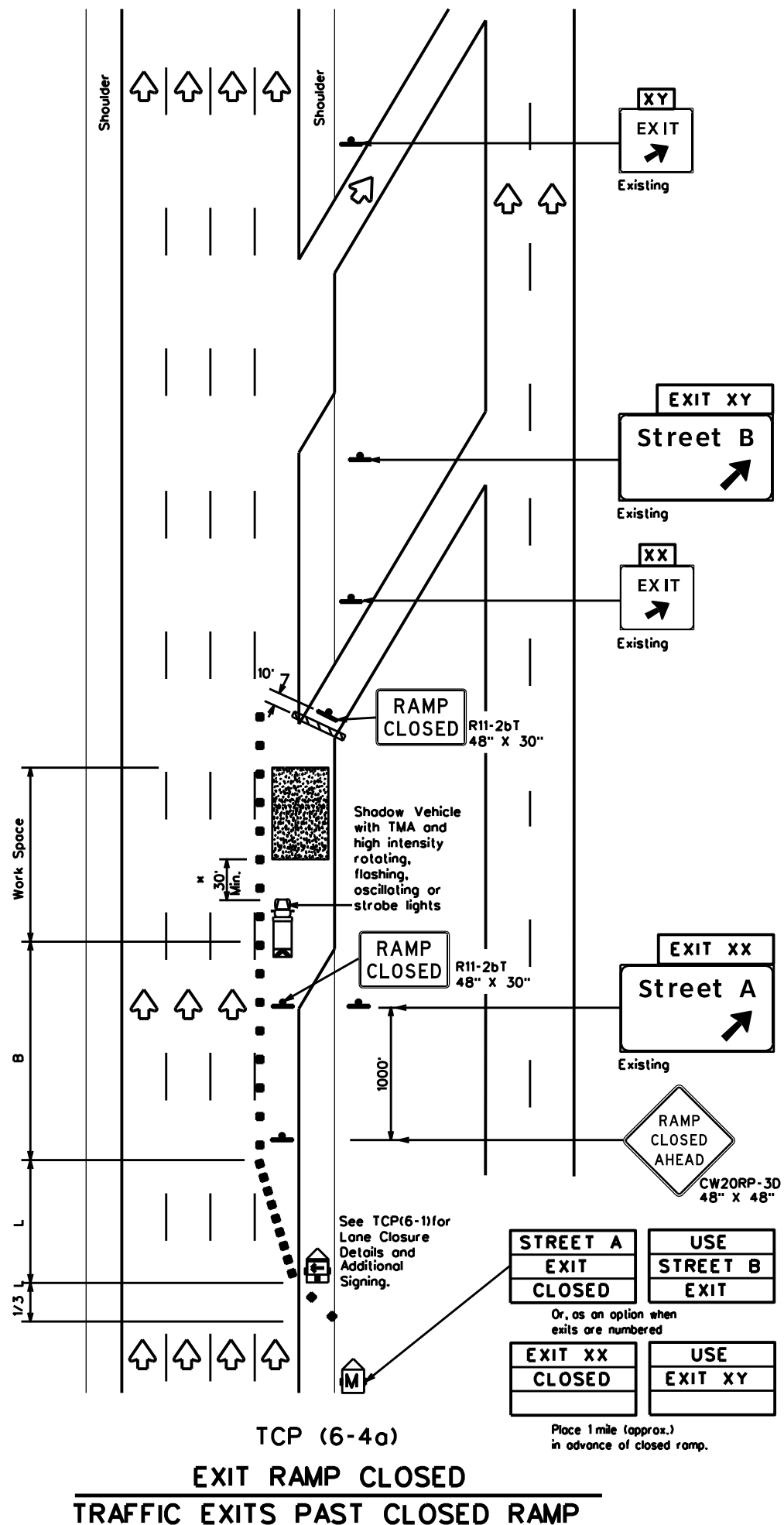
**TRAFFIC CONTROL PLAN
WORK AREA BEYOND RAMP**

TCP(6-3)-12

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© TxDOT February 1994	CONT: 5428	SECT: 42	JOB: 001	HIGHWAY: IH-44, ETC.
1-97 8-98	DIST: WFS	COUNTY: WICHITA, ETC.	SHEET NO.: 23	
4-98 8-12				

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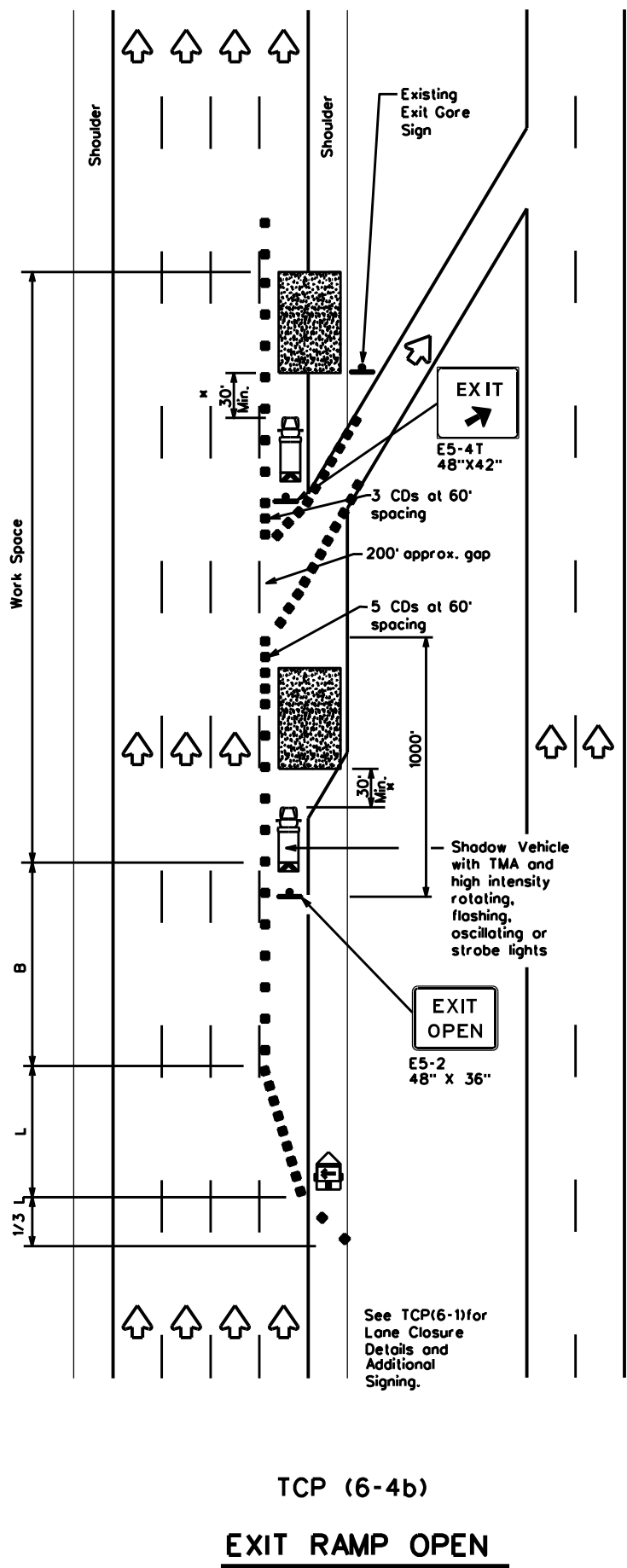
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STREET A EXIT CLOSED	USE STREET B EXIT
EXIT XX CLOSED	USE EXIT XY

Or, as an option when exits are numbered

Place 1 mile (approx.) in advance of closed ramp.



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"			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'

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

x 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

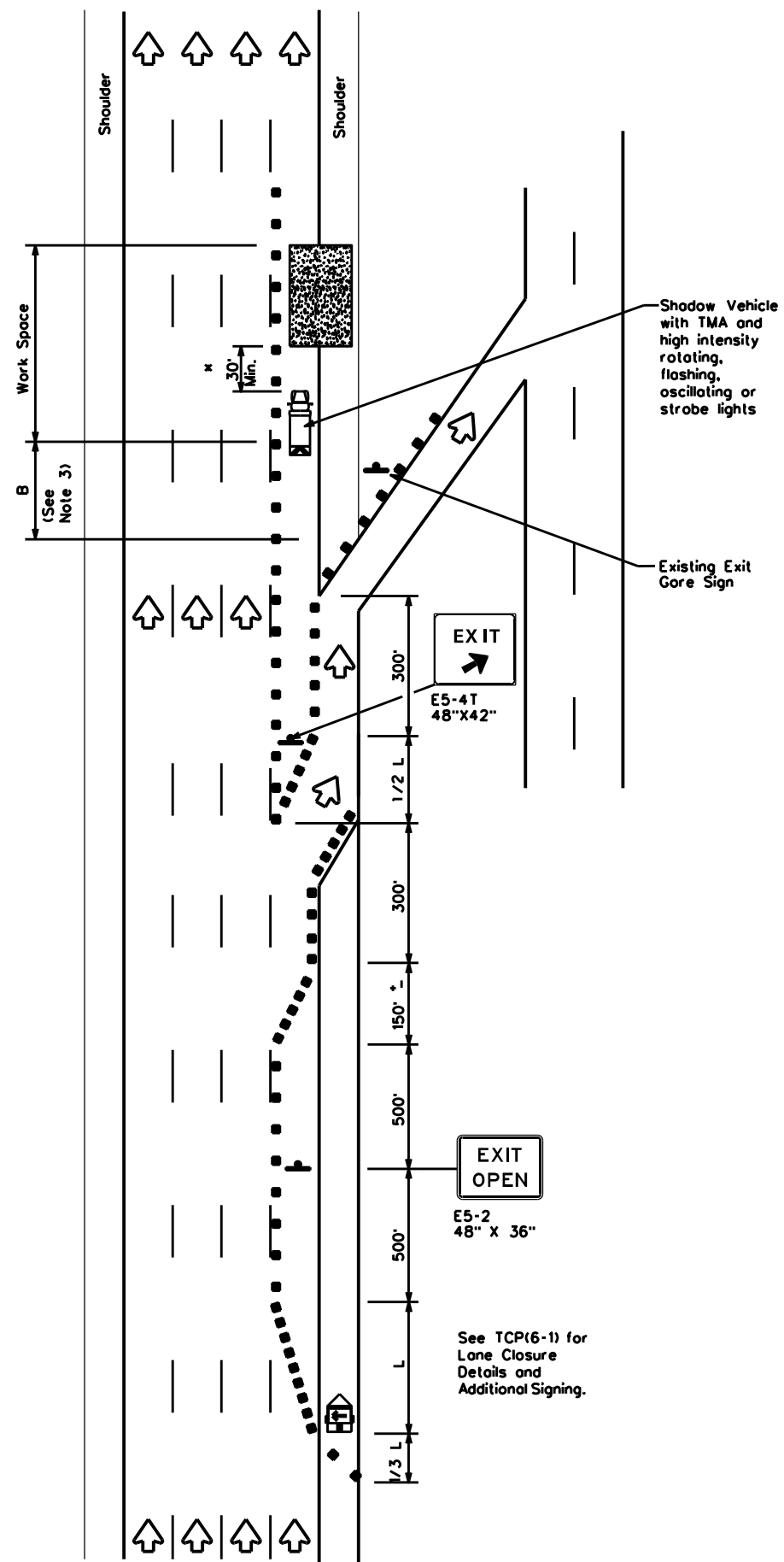
TRAFFIC CONTROL PLAN
WORK AREA AT EXIT RAMP

TCP(6-4)-12

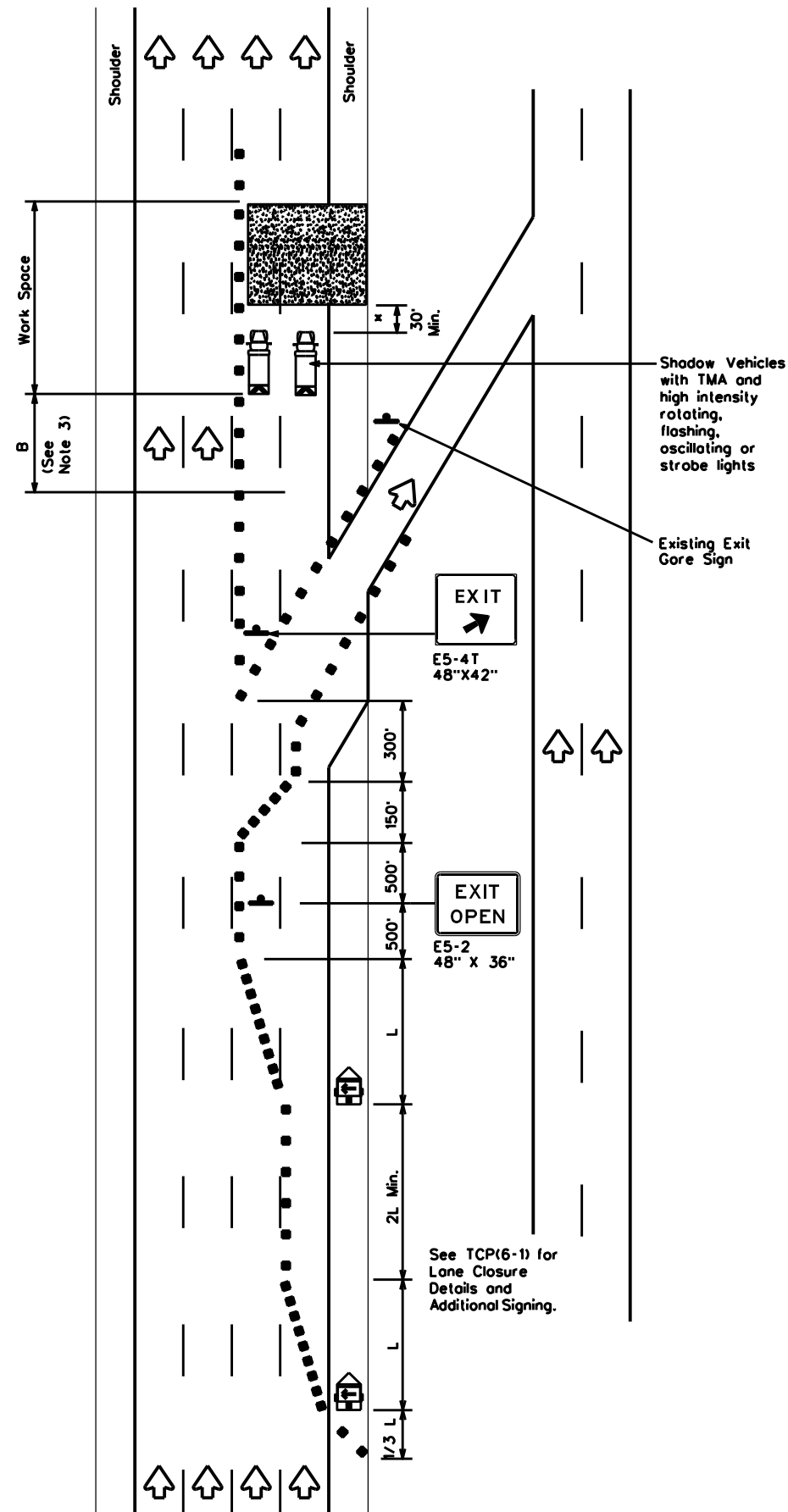
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© TxDOT February 1994	CONT	SECT	JOB	HIGHWAY
REVISIONS	6428	42	001	IH-44, ETC.
1-97 8-98	DIST	COUNTY	SHEET NO.	
4-98 8-12	WFS	WICHITA, ETC.	24	

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DATE: 4/19/2024 1:19:20 PM
 FILE: T:\WFSMAINT\Maintenance Projects\6428-42-001 Lq Sign Rplcmt FY2024\4 - 06-11-24-10-01-001.dgn



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'

x x 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

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

x 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.

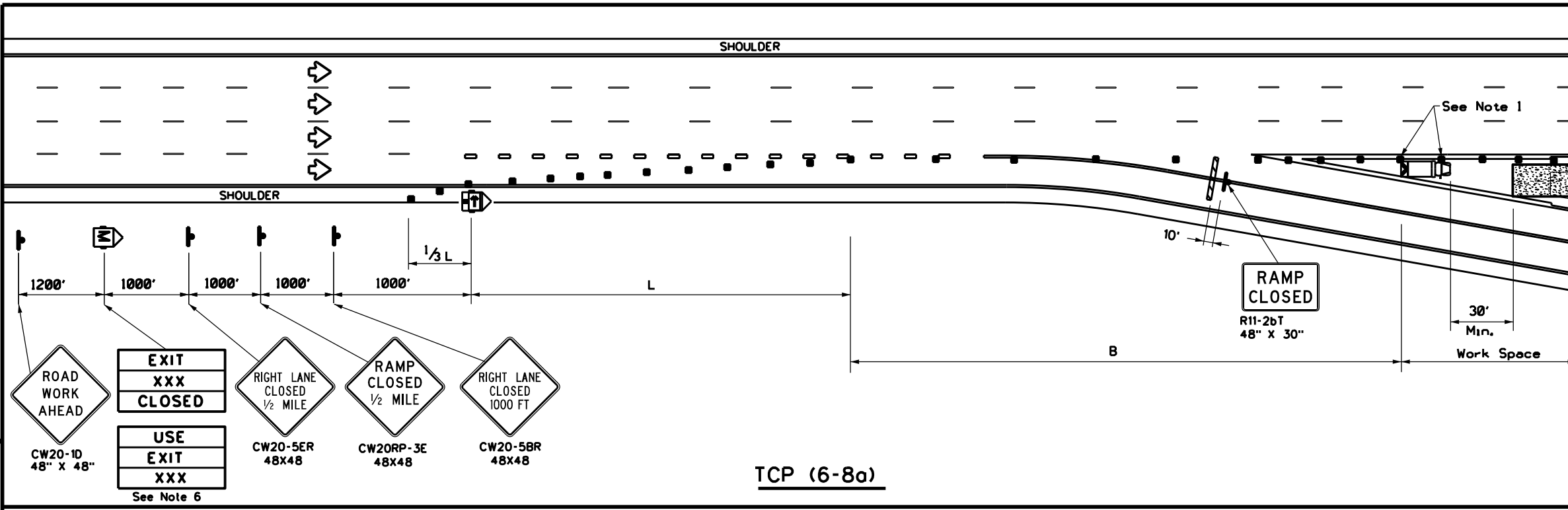


**TRAFFIC CONTROL PLAN
 WORK AREA BEYOND EXIT RAMP**

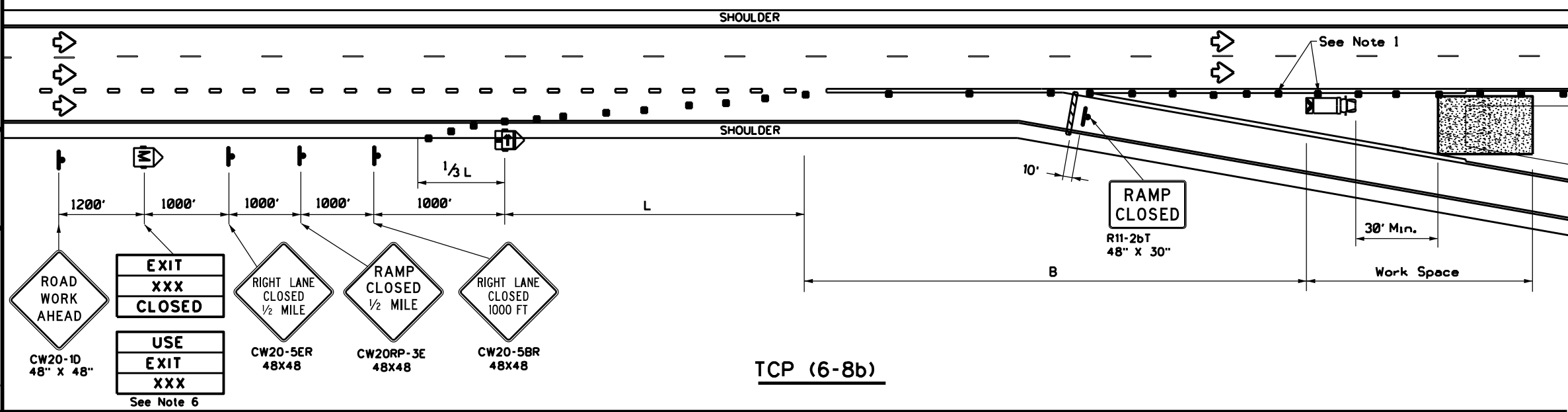
TCP(6-5)-12

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© TxDOT February 1998	CONT	SECT	JOB	HIGHWAY
REVISIONS	6428	42	001	IH-44, ETC.
1-97 8-98	DIST	COUNTY	SHEET NO.	
4-98 8-12	WFS	WICHITA, ETC.	25	

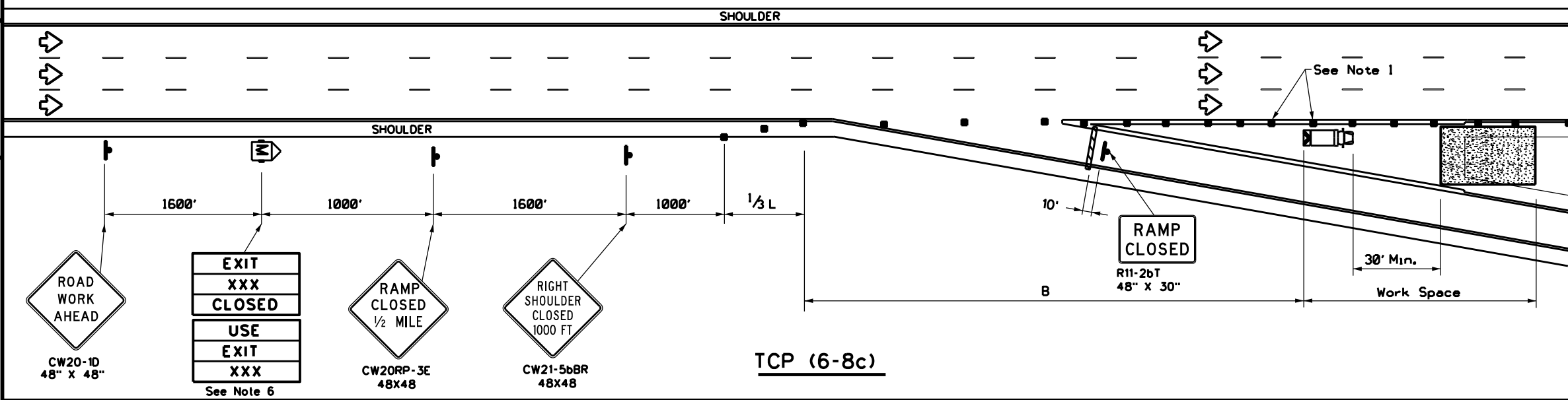
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TCP (6-8a)



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"			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

- Place channelizing devices in the gore at 20' spacing.
- See the Standard Highway Sign Design for Texas (SHSD) for sign details.
- 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.
- 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.
- Truck mounted attenuator is required.
- The PCMS may be omitted if replaced with a "RAMP CLOSED" AHEAD (CW20RP-3D) Sign.
- Roadway ADT should be greater than 10,000.







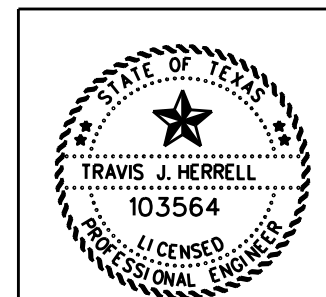
WORK IN EXIT GORE FOR ADT GREATER THAN 10,000

TCP(6-8)-14

FILE: tcp6-8.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT February 2014	CONT	SECT	JOB	HIGHWAY
REVISIONS	6428	42	001	IH-44, ETC.
DIST	WFS	COUNTY	WICHITA, ETC.	SHEET NO. 26

- ① US287 SB : PICNIC AREA 2 MILES
 - ② US287 SB : FM 925 EXIT 1/4 MILE
 - ③ US287 SB : FM 925 EXIT ARROW RIGHT
 - ④ US287 SB : US 70 PLAINVIEW EXIT 3/4 MILE
 - ⑤ US287 SB : REMOVE STATE HOSPITAL/ TEXAS MHR
 - ⑥ US287 SB : REMOVE VERNON COLLEGE/RR MUSEUM
 - ⑦ US287 SB : US 70 EXIT (SIGNS 7A & 7B)
 - ⑧ US287 SB : US 70 EXIT GORE SIGN
 - ⑨ US287 SB : FM 1763 EXIT 1/2 MILE
 - ⑩ US287 SB : FM 1763 EXIT ARROW RIGHT
 - ⑪ US287 SB : FM 433 EXIT GORE SIGN
 - ⑫ US287 SB : SL 404 EXIT GORE SIGN
 - ⑬ US287 SB : SL 145 EXIT GORE SIGN
 - ⑭ US287 SB : US 70 EXIT GORE SIGN
 - ⑮ US287 SB : BU 287H EXIT GORE SIGN
 - ⑯ US287 SB : FM 2384 EXIT 1 MILE
 - ⑰ US287 NB : BU 287H EXIT GORE SIGN
 - ⑱ US287 NB : US 70 EXIT GORE SIGN
 - ⑲ US287 NB : FM 1763 EXIT GORE SIGN
 - ⑳ US287 NB : FM 1763 EXIT ARROW RIGHT
 - ㉑ US287 NB : FM 1949 EXIT 1/2 MILE
 - ㉒ US287 NB : FM 1949 EXIT ARROW RIGHT
 - ㉓ US287 NB : BENTLEY ST EXIT (SIGNS 86A & 86B)
 - ㉔ US287 SB : REMOVE STATE HOSPITAL/ TEXAS MHR
 - ㉕ US287 SB : REMOVE VERNON COLLEGE/RR MUSEUM
 - ㉖ US287 NB : US 70 EXIT ARROW RIGHT
 - ㉗ US287 NB : FM 925 EXIT 1/2 MILE
- BMCS 1A : FM 1739 OVER US 287 SB
 BMCS 1B : FM 1739 OVER US 287 NB
 BMCS 2A : MIDWAY CHRUCH RD OVER US 287 SB
 BMCS 2B : MIDWAY CHURCH RD OVER US 287 NB
 BMCS 3A : FM 2384 OVER US 287 SB
 BMCS 3B : FM 2384 OVER US 287 NB
 BMCS 4A : HARMONY RD OVER US 287 SB
 BMCS 4B : HARMONY RD OVER US 287 NB

 OVERHEAD SIGN
 LARGE GROUND MOUNT SIGN
 SMALL GROUND MOUNT SIGN
 REMOVE LRSA SIGN

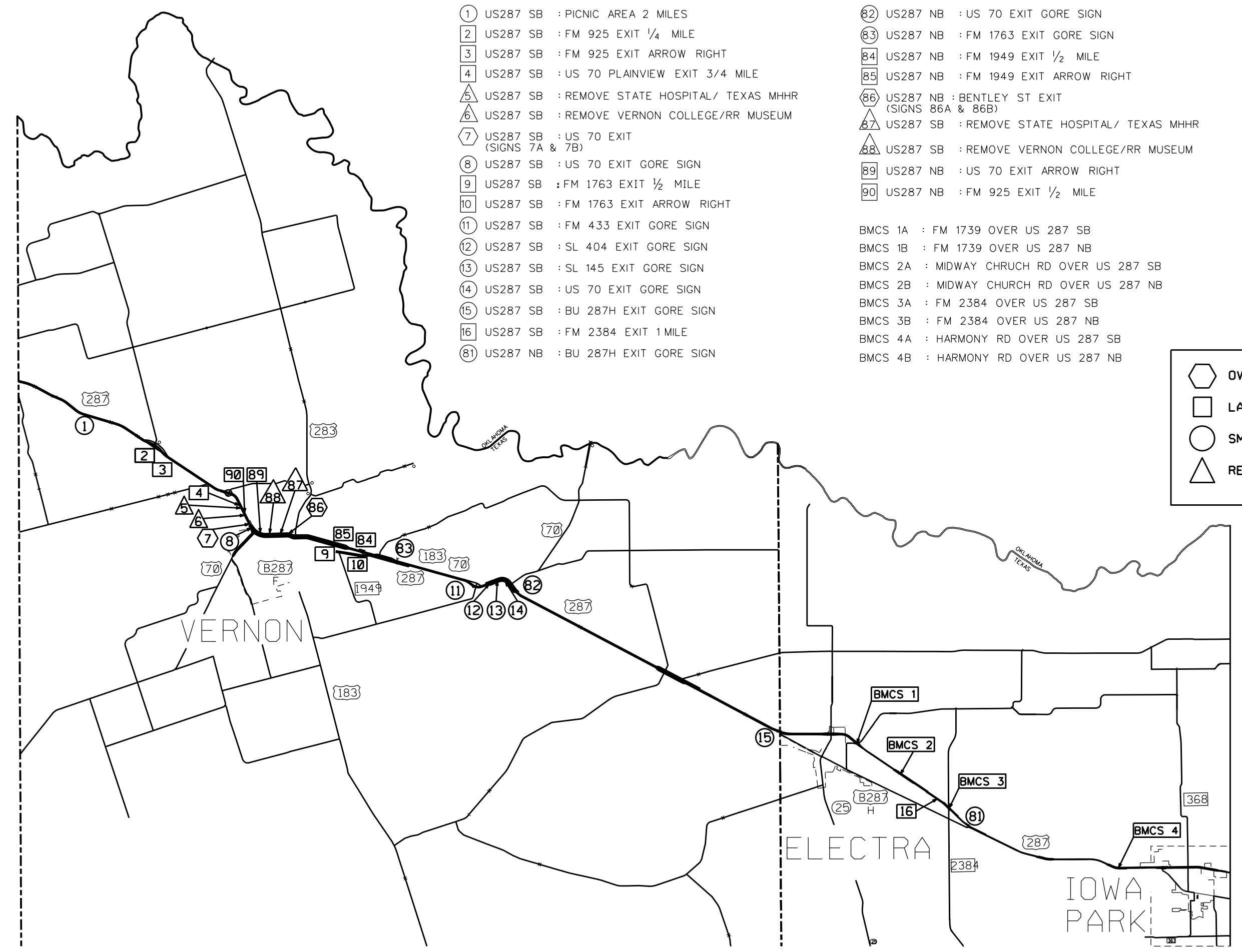


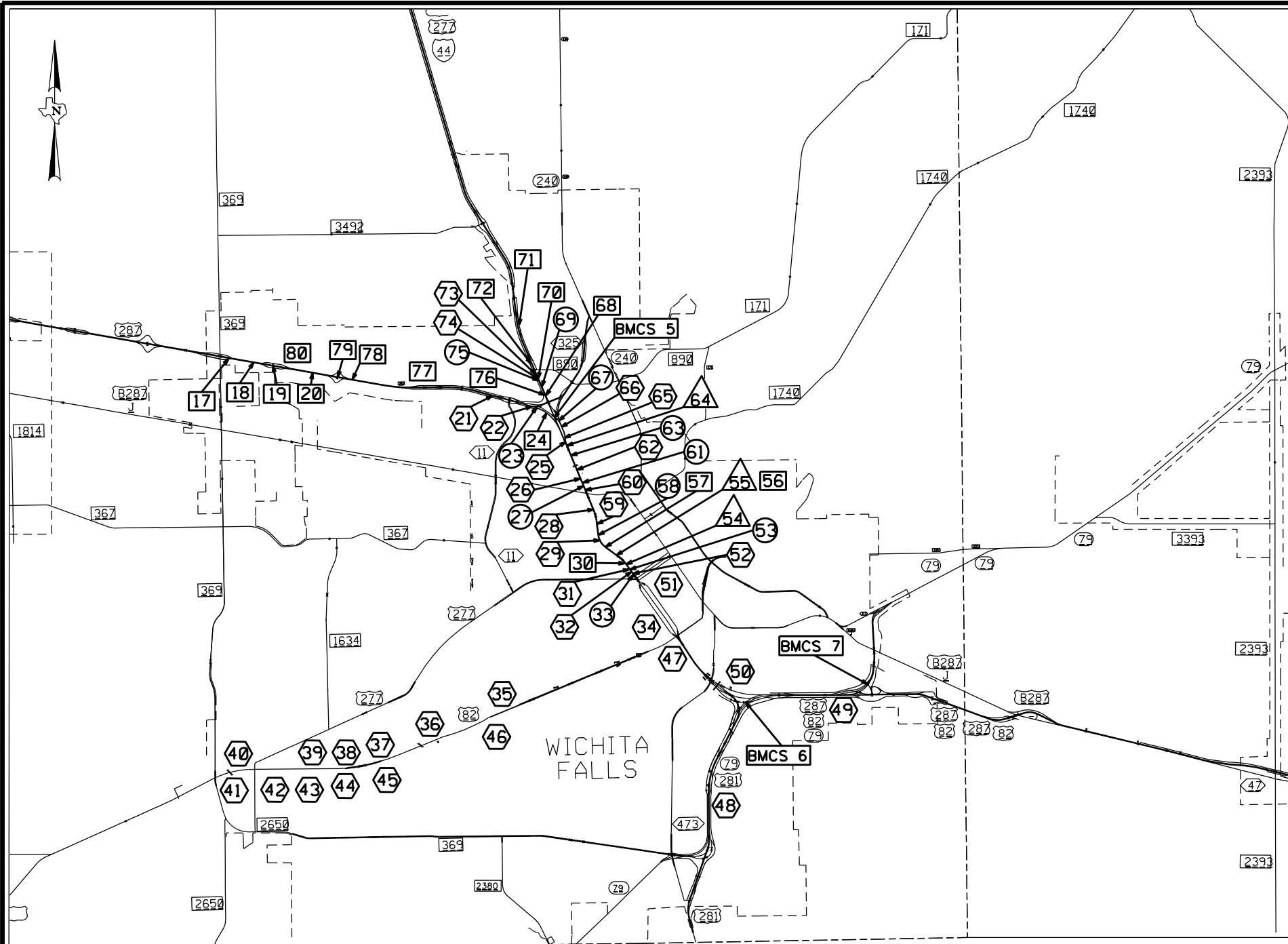
**IH-44, ETC.
SIGN
LOCATIONS**



CONT	SECT	JOB	HIGHWAY
5428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	27	

DATE:
FILE:

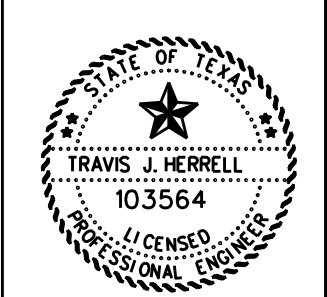




- 42 US82 EB : BARNETT RD EXIT 1/2 MILE (SIGNS 42A, & 42B)
- 43 US82 EB : BARNETT RD EXIT (SIGNS 43A, & 43B)
- 44 US82 EB : FAIRWAY BLVD EXIT 1/2 MILE (SIGNS 44A, & 44B)
- 45 US82 EB : FAIRWAY BLVD EXIT (SIGNS 45A, & 45B)
- 46 US82 EB : TAFT/HARRISON
- 47 US82 EB : IH44/US287/US281/US277
- 48 US281 NB : HATTON RD EXIT, MIDWESTERN PKWY SIGN ONLY
- 49 US82 EB : SH79 NB EXIT, US82/US287 SIGN ONLY
- 50 US82 WB : SL 473 EXIT, US82/US277 SIGN ONLY
- 51 IH44 EB : 6TH ST EXIT (SIGNS 51A, & 51B)
- 52 IH44 EB : FRONTAGE ROAD 1/2 MILE (SIGNS 52A, 52B & 52C)
- 53 IH44 EB : RIGHT LANE ENDS SIGN
- 54 IH44 EB : REMOVE SCOTLAND PARK 1/4 MILE SIGN
- 55 IH44 EB : REMOVE SCOTLAND PARK EXIT SIGN
- 56 IH44 EB : FRONTAGE ROAD EXIT ARROW RIGHT
- 57 IH44 EB : 8TH ST EXIT 1/2 MILE
- 58 IH44 EB : TEXAS TIC NEXT RIGHT
- 59 IH44 EB : 8TH ST EXIT (SIGNS 59A, 59B & 59C)
- 60 IH44 EB : BU 287J EXIT (SIGNS 60A, & 60B)
- 61 IH44 EB : EXIT 1D
- 62 IH44 EB : MAURINE ST EXIT, US 287 NORTH SIGN ONLY
- 63 IH44 EB : EXIT 2
- 64 IH44 EB : REMOVE SS 325 RIGHT LANE SIGN
- 65 IH44 EB NB US 287/IH 44/SS 325 EXIT (SIGNS 65A, & 65B)
- 66 IH44 EB : IH 44/SS 325 EXIT
- 67 IH44 EB : EXIT 3 B
- 68 IH44 EB : FM 890 AIRPORT DR EXIT ARROW RIGHT
- 69 IH44 EB : EXIT 3 C
- 70 IH44 EB : FRONTAGE ROAD 1/2 MILE
- 71 IH44 EB : FRONTAGE ROAD EXIT ARROW RIGHT
- 72 IH44 WB : US 287 AMARILLO 1/2 MILE
- 73 IH44 WB : US 287 AMARILLO EXIT (SIGNS 73A, & 73B)
- 74 IH44 WB : SP 325 SHEPPARD AFB EXIT
- 75 IH44 WB : EXIT 3 B
- 76 IH44 WB : MAURINE ST 1/2 MILE
- 77 US287 NB : WELLINGTON LN EXIT 1 MILE
- 78 US287 NB : WELLINGTON LN EXIT ARROW RIGHT
- 79 US287 NB : HUNTINGTON LN EXIT 1 MILE
- 80 US287 NB : HUNTINGTON LN EXIT ARROW RIGHT

- 17 US287 SB : HUNTINGTON LN EXIT 1/2 MILE
- 18 US287 SB : HUNTINGTON LN EXIT ARROW RIGHT
- 19 US287 SB : WELLINGTON LN EXIT 3/4 MILE
- 20 US287 SB : WELLINGTON LN EXIT ARROW RIGHT
- 21 US287 SB : SL 11 EXIT (SIGNS 21A, 21B, & 21C)
- 22 US287 SB : SS 325 EXIT (SIGNS 22A, & 22B)
- 23 US287 SB : SS 325 EXIT GORE SIGN
- 24 US287 SB : MAURINE ST EXIT 1/2 MILE
- 25 US287 SB : MAURINE EXIT (SIGNS 25A, & 25B)
- 26 US287 SB : BU 287 EXIT (SIGNS 26A, & 26B)
- 27 US287 SB : TEXAS TIC NEXT RIGHT
- 28 US287 SB : 8TH ST EXIT (SIGNS 28A, & 28B)
- 29 US287 SB : BU 277A EXIT (SIGNS 29A, 29B & 29C)
- 30 US287 SB : BUSINESS DISTRICT EXIT 0
- 31 US287 SB : BU 277A
- 32 US287 SB : HOLLIDAY ST EXIT (SIGNS 32A, 32B & 32C)
- 33 US287 SB : EXIT 0
- 34 US287 SB : SL 473 EXIT 1/2 MILE
- 35 US82 WB : McNEIL AVE/FAIRWAY/BARNETT
- 36 US82 WB : FAIRWAY/BARNETT/ALLENDALE
- 37 US82 WB : BARNETT RD EXIT 1/4 MILE
- 38 US82 WB : BARNETT RD EXIT (SIGNS 38A, & 38B)
- 39 US82 WB : SEYMOUR HWY/ALLENDALE/FM 369
- 40 US82 WB : FM 369 EXIT (SIGNS 40A, & 40B)
- 41 US82 EB : BARNETT/FAIRWAY

- OVERHEAD SIGN
- LARGE GROUND MOUNT SIGN
- SMALL GROUND MOUNT SIGN
- REMOVE LRSA SIGN



**IH-44, ETC.
SIGN
LOCATIONS**

BMCS 5A : US287 NB OVER IH44 WB MAINLANES
 BMCS 5B : US287 NB OVER IH44 WB SHOULDER
 BMCS 6 : US82 EB OVER US82 WB
 BMCS 7 : SH 79 SB OVER RAMP

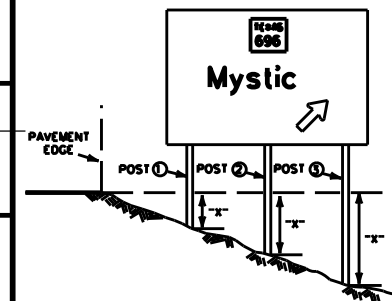
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FILE:

SUMMARY OF LARGE SIGNS - GROUND MOUNTS

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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	post 1	post 2	post 3	TOTAL WEIGHT LBS.	NON-REINF 12"Ø	LINEAR FEET REINFORCED	
															24"Ø	30"Ø	36"Ø			
44	2	GREEN	FM 925 EAST EXIT 1/4 MILE	12 X 7	X		84.00		2 1											
44	3	GREEN	FM 925 EAST	12 X 7.5	X		90.00		2 2 1	1.5	3.0		W6x12	16.0	17.5		482.6		12.0	
44	4	GREEN	H TO WEST BUSINESS 70 287 PLAINVIEW EXIT 3/4 MILE	3 X 3 16 X 14		X	9.00 224.00		2 2 1	1.5	3.0		W8x21	22.5	24.0		1065.9		18.0	
45	9	GREEN	FM 1763 EXIT 1/2 MILE	12.5 X 7	X		87.50		2 1											
45	10	GREEN	FM 1763	7.5 X 8.5	X		63.75		2 2 1	1.5	3.0		W6x9	17.0	18.5		385.9		11.0	
45	16	GREEN	FM 2384 EXIT 1 MILE	10 X 7.5	X		75.00		2 2 1	1.5	3.0		W6x9	16.0	17.5		367.9		11.0	
45	17	GREEN	HUNTINGTON LN EXIT 1/2 MILE	14.5 X 8			116.00		2 1											
46	18	GREEN	HUNTINGTON LN	14.5 X 6.5			94.25		2 1											
46	19	GREEN	WELLINGTON LN EXIT 3/4 MILE	14.5 X 8			116.00		2 2 1	1.5	3.0		W6x15	16.5	18.0		553.1		14.0	
46	20	GREEN	WELLINGTON LN	14.5 X 6.5			94.25		2 2 1	1.5	3.0		W6x12	15.0	16.5		458.6		12.0	
PAGE TOTALS								1053.75		PAGE TOTALS				3314.0		78.0				



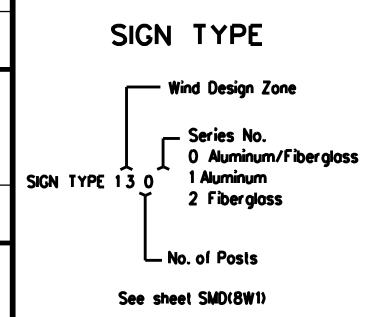
⊙ The "X" dimension is the elevation difference of the post between the ground and the edge of pavement or top of curb.

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.



SHEET 1 OF 3

SUMMARY OF LARGE SIGNS

SOLS

© TxDOT Mgy. 1987		REVISIONS	
DR: TxDOT	11-93	1-04	
CK: TxDOT	8-95	9-08	
DR: TxDOT	5-01		
CK: TxDOT			
CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	29	

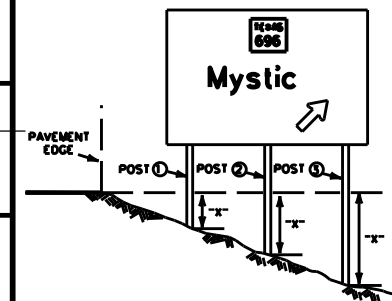
19

SUMMARY OF LARGE SIGNS - GROUND MOUNTS

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PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		MOUNT	"X" DIMENSION @			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT					
					DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND (TYPE G)	OVERHEAD (TYPE O)		①	②	post ③	LINEAR FEET			WEIGHT LBS.	LINEAR FEET REINFORCED					
													①	②	post ③		NON-REINF 12"Ø	24"Ø	30"Ø	36"Ø		
46	24	GREEN	MAURINE ST EXIT 1/2 MILE	14 X 6			84.00		2 2 1	1.5	3.0		W6x9	14.5	16.0		340.9		11.0			
46	27	GREEN	TEXAS TRAVEL INFO CENTER NEXT RIGHT	11.5 X 6.5			74.75		2 2 1	1.5	3.0		W6x9	15.0	16.5		349.9		11.0			
47	30	GREEN	BUSINESS DISTRICT EXIT 0	20.5 X 5.5			112.75		2 3 1	1.5	2.3	3.5	W6x9	14.0	14.8	16.0	502.4		16.5			
47	56	GREEN	EXIT 1B FRONTAGE ROAD	7.5 X 2.5 18.5 X 7			18.75 129.50		2 3 1	1.5	2.3	3.0	W6x9	15.5	16.3	17.0	538.4		16.5			
47	57	GREEN	INFO	2.5 X 2.5			6.25		2 1													
47	57	GREEN	EXIT 1C 8TH ST 1/2 MILE	7.5 X 2.5 9 X 6			18.75 54.00		2 2 1	1.5	3.0		W6x9	14.5	16.0		340.9		11.0			
46	58	GREEN	TEXAS TRAVEL INFO CENTER NEXT RIGHT	11.5 X 6.5			74.75		2 2 1	1.5	3.0		W6x9	15.0	16.5		349.9		11.0			
48	68	GREEN	EXIT 3 C 890 AIRPORT DR	7.5 X 2.5 13.5 X 10		X	18.75 135.00		2 3 1	1.5	3.0		W6x15	18.5	20.0		613.1		12.0			
48	70	GREEN	EXIT 4 FRONTAGE ROAD 1/2 MILE	6 X 2.5 18.5 X 6			15.00 111.00		2 3 1	1.5	2.3	3.5	W6x9	14.5	15.3	16.5	515.9		16.5			
48	71	GREEN	EXIT 4 FRONTAGE ROAD	6 X 2.5 18.5 X 7			15.00 129.50		2 3 1	1.5	2.3	3.5	W6x9	15.5	16.3	17.5	542.9		16.5			
PAGE TOTALS							997.75			PAGE TOTALS			4094.1		122.0							



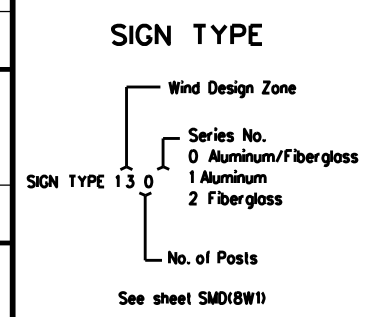
⊙ The "X" dimension is the elevation difference of the post between the ground and the edge of pavement or top of curb.

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.



SHEET 2 OF 3

SUMMARY OF LARGE SIGNS SOLS

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DR: TxDOT	REVISIONS
CR: TxDOT	11-93 1-04
DR: TxDOT	8-95 9-08
CR: TxDOT	5-01

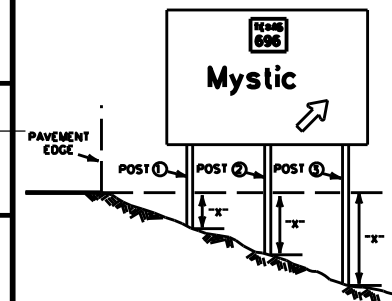
CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	30	

19

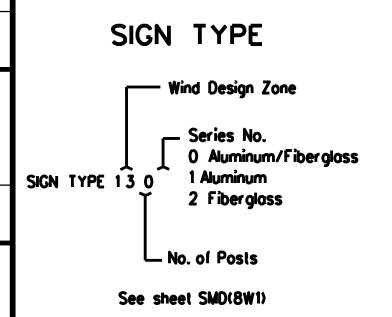
SUMMARY OF LARGE SIGNS - GROUND MOUNTS

DATE: 4/19/2024 1:19:22 PM
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PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		MOUNT	"X" DIMENSION			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT					
					DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND (TYPE G)	OVERHEAD (TYPE O)		①	②	post ③	LINEAR FEET			WEIGHT LBS.	NON-REINF 12"Ø	LINEAR FEET REINFORCED				
										①	②	③	①	②	post ③			24"Ø	30"Ø	36"Ø		
49	72	GREEN	EXIT 3 A NORTH 287 AMARILLO 1/2 MILE	7.5 X 2.5 11.5 X 11.5		X	18.75 132.25		2 1													
49	76	GREEN	EXIT 2 MAURINE ST EXIT 1/2 MILE	6 X 2.5 14 X 5.5			15.00 77.00		2 1													
49	77	GREEN	WELLINGTON LN EXIT 1 MILE	14.5 X 8			116.00		2 1													
46	78	GREEN	WELLINGTON LN ↗	14.5 X 6.5			94.25		2 1													
50	79	GREEN	HUNTINGTON LN EXIT 1 MILE	14.5 X 8			116.00		2 2 1	1.5	3.0		W6x15	16.5	18.0		433.1		14.0			
45	80	GREEN	HUNTINGTON LN ↗	14.5 X 6.5			94.25		2 2 1	1.5	3.0		W6x12	15.0	16.5		458.6		12.0			
50	84	GREEN	FM 1949 EXIT 1/4 MILE	12 X 7.5	X		90.00		2 2 1	1.5	3.0		W6x12	16.0	17.5		482.6		12.0			
50	85	GREEN	FM 1949 ↗	8 X 8	X		64.00		2 1													
51	89	GREEN	H TO WEST BUSINESS 70 287 PLAINVIEW ↗	3 X 3 16 X 15		X	9.00 240.00		2 2 1	1.5	3.0		W10x22	23.5	25.0		1159.0		20.0			
51	90	GREEN	FM 925 EXIT 1/2 MILE	12 X 7.5	X		90.00		2 2 1	1.5	3.0		W6x12	16.0	17.5		482.6		12.0			
PAGE TOTALS								1156.50		PAGE TOTALS				3015.9		70.0						



⊕ The "X" dimension is the elevation difference of 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.



SHEET 3 OF 3

SUMMARY OF LARGE SIGNS SOLS

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DR: TxDOT	REVISIONS		
CK: TxDOT	11-93 1-04		
DR: TxDOT	8-95 9-08		
CK: TxDOT	5-01		
CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	31	

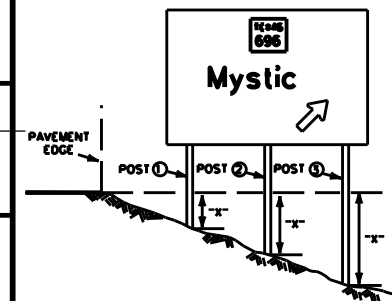
19

SUMMARY OF LARGE SIGNS - OVERHEAD

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PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		MOUNT	"X" DIMENSION			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT					
					DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND (TYPE G)	OVERHEAD (TYPE O)		①	②	post ③	LINEAR FEET			WEIGHT LBS.	NON-REINF 12"Ø	LINEAR FEET REINFORCED				
													①	②	post ③			24"Ø	30"Ø	36"Ø		
52	7A	GREEN	EAST SOUTH 70 287 FREDERICK WICHITA FALLS	16.5 X 12	X			198.00	2	1												
52	7B	GREEN	H TO WEST BUSINESS 70 287 PLAINVIEW ↗	3 X 3 16 X 15		X		9.00 240.00	2	1				15.0	15.0	15.0	346.5					
53	21A	GREEN	EAST NORTH 44 325 SHEPPARD AFB LAWTON LEFT EXIT	17.5 X 15	X			253.75	2	1				14.5	14.5	14.5	334.95					
		YELLOW																				
53	21B	GREEN	WEST SOUTH 44 287 WICHITA FALLS FT WORTH ↓	16.5 X 15	X			247.50	2	1				15.0	15.0	15.0	346.5					
54	21C	GREEN	SL 11 BEVERLY DR ↗	14 X 11	X			147.00	2	1				10.5	10.5		161.7					
54	22A	GREEN	EAST NORTH 44 325 SHEPPARD AFB LAWTON LEFT EXIT	17.5 X 18	X			315.00	2	1				18.0	18.0	18.0	415.8					
		YELLOW																				
55	22B	GREEN	WEST SOUTH 44 287 WICHITA FALLS FT WORTH	16.5 X 12	X			198.00	2	1				12.0	12.0	12.0	277.2					
55	25A	GREEN	EXIT 1D BUSINESS 287 1/2 MILE	7.5 X 2.5 10 X 9		X		18.75 90.00	2	1				9.0	9.0		138.6					
55	25B	GREEN	EXIT 2 MAURINE ST ↗	6 X 2.5 11 X 6.5		X		15.00 71.50	2	1												
							PAGE TOTALS		1803.50								PAGE TOTALS		2021.25			



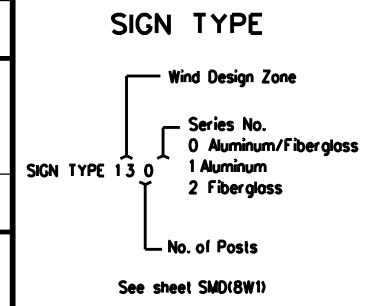
The "X" dimension is the elevation difference of the post between the ground and the edge of pavement or top of curb.

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.

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* This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.



SHEET 1 OF 9

SUMMARY OF LARGE SIGNS

SOLS

© TxDOT Mgy. 1987			
DR: TxDOT	REVISIONS		
CHK: TxDOT	11-93 1-04		
DR: TxDOT	8-95 9-08		
CHK: TxDOT	5-01		
CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	32	

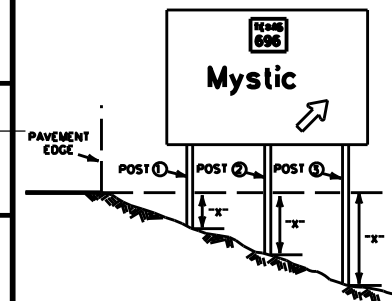
19

SUMMARY OF LARGE SIGNS - OVERHEAD

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PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SO FT)		MOUNT	"X" DIMENSION			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT			
					DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND (TYPE G)	OVERHEAD (TYPE O)		①	②	post ③	LINEAR FEET			WEIGHT LBS.	NON-REINF 12"Ø	LINEAR FEET REINFORCED		
													①	②	post ③			24"Ø	30"Ø	36"Ø
56	26A	BLUE	CAMPING INFO	2.5 X 2.5				6.25	2	1										
				2.5 X 2.5				6.25												
56	26A	GREEN	EXIT 1C 8TH ST 1/2 MILE	6.5 X 2.5				16.25	2	1										
				9 X 5.5	X		49.50	5.5			5.5	84.7								
56	26B	GREEN	EXIT 1D BUSINESS 287	7.5 X 2.5				18.75	2	1										
				10 X 11	X		105.00	10.5			10.5	161.7								
56	28A	GREEN	EXIT 1A BUSINESS 277 1 MILE	7.5 X 2.5				18.75	2	1										
				10 X 9	X		90.00	9.0			9.0	138.6								
57	28B	BLUE	CAMPING INFO	2.5 X 2.5				6.25	2	1										
				2.5 X 2.5			6.25													
57	28B	GREEN	EXIT 1C 8TH ST	6.5 X 2.5				16.25	2	1										
				9 X 6.5			58.50	6.5			6.5	100.1								
57	29A	GREEN	SOUTH SOUTH 281 287 FT WORTH	14.5 X 9.5	X			137.75	2	1										
58	29B	GREEN	H	3 X 3				9.00	2	1										
58	29B	GREEN	EXIT 0 HOLIDAY ST EXIT ONLY ↓	6 X 2.5				15.00	2	1										
				22 X 6.5			143.00	6.5			6.5	6.5	150.15							
58	29C	GREEN	EXIT 1A BUSINESS 277	7.5 X 2.5				18.75	2	1										
				10 X 10.5	X		105.00	10.5			10.5	161.7								
PAGE TOTALS								826.50	PAGE TOTALS			796.95								



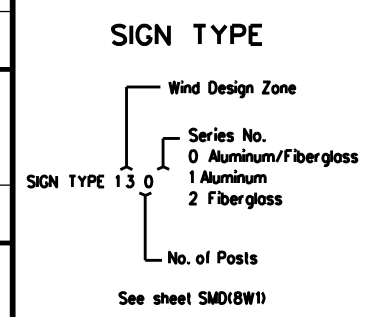
The "X" dimension is the elevation difference of the post between the ground and the edge of pavement or top of curb.

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* This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.



SHEET 2 OF 9

SUMMARY OF LARGE SIGNS

SOLS

© TxDOT Mgy. 1987		REVISIONS	
DR: TxDOT	11-93	1-04	
CK: TxDOT	8-95	9-08	
DR: TxDOT	5-01		
CK: TxDOT			
CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	33	

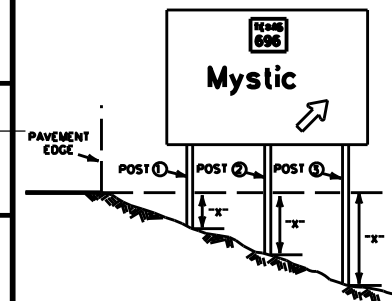
19

SUMMARY OF LARGE SIGNS - OVERHEAD

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PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		MOUNT	"X" DIMENSION			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT						
					DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND (TYPE G)	OVERHEAD (TYPE O)		1	2	post 3	LINEAR FEET			WEIGHT LBS.	NON-REINF 12"Ø	LINEAR FEET REINFORCED					
													1	2	post 3				24"Ø	30"Ø	36"Ø		
58	31	GREEN	6th ST ↓	8 X 6				48.00	2 1														
59	32A	GREEN	EAST SOUTH SOUTH 82 281 287 ↓	19.5 X 10	X			195.00	2 1				10.0	10.0	10.0	231.0							
59	32B	GREEN	WEST SOUTH 82 277 LUBBOCK ABILENE EXIT 3/4 MILE	13.5 X 14	X			189.00	2 1				14.0	14.0	0.0	215.6							
60	32C	BLUE	H	3 X 3				9.00	2 1														
60	32C	GREEN	EXIT 0 HOLLIDAY ST EXIT ONLY ↗	6 X 2.5 22 X 6.5				15.00 143.00	2 1														
		YELLOW																					
60	34	GREEN	473 OLD JACKSBORO HWY EXIT 1/2 MILE	23.5 X 9.5	X			223.25	2 1				9.5	9.5	9.5	219.45							
61	35	GREEN	MCNIEL AVE 1/2 FAIRWAY BLVD 11/4 BARNETT RD FM 1635 2 1/4	20.5 X 8	X			164.00	2 1														
61	36	GREEN	FAIRWAY BLVD 1/2 BARNETT RD FM 1634 13/4 ALLENDALE RD 2 3/4	20 X 8	X			160.00	2 1														
61	37	GREEN	H FM 1634 BARNETT RD EXIT 1/4 MILE	3 X 3 14 X 9.5		X		9.00 133.00	2 1														
PAGE TOTALS								1288.25															
PAGE TOTALS																666.05							



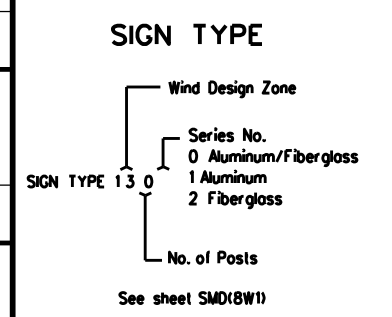
The "X" dimension is the elevation difference of the post between the ground and the edge of pavement or top of curb.

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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.



SHEET 3 OF 9

SUMMARY OF LARGE SIGNS

SOLS

© TxDOT Mgy. 1987		REVISIONS	
DR: TxDOT	11-93	1-04	
DR: TxDOT	8-95	9-08	
DR: TxDOT	5-01		
CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY		SHEET NO.
WFS	WICHITA, ETC.		34

19

SUMMARY OF LARGE SIGNS - OVERHEAD

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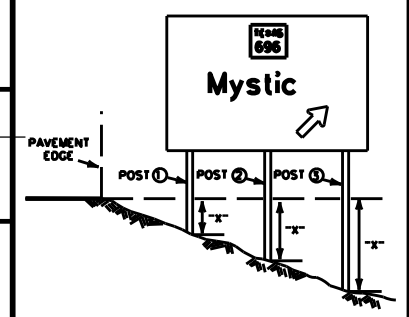
PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		MOUNT	"X" DIMENSION			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT			
					DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND (TYPE G)	OVERHEAD (TYPE O)		①	②	post ③	LINEAR FEET			WEIGHT LBS.	NON-REINF 12"Ø	LINEAR FEET REINFORCED		
													①	②	post ③			24"Ø	30"Ø	36"Ø
62	38A	GREEN	SEYMOUR HWY 277 BUSINESS ALLENDALE RD FM 2650 1 SOUTHWEST PKWY FM 369 1 1/2	27 X 10	X			270.00	2 1											
62	38B	GREEN	H FM 1634 BARNETT RD ↗	3 X 3 17.5 X 8		X		9.00 140.00	2 1											
62	39	GREEN	SEYMOUR HWY 277 BUSINESS ALLENDALE RD FM 2650 3/4 SOUTHWEST PKWY FM 369 1 1/4	28 X 10	X			280.00	2 1											
63	40A	GREEN	WEST SOUTH 82 277 LUBBOCK ABILENE	14 X 12	X			161.00	2 1											
63	40B	GREEN	FM 369 SOUTHWEST PKWY ↗	13.5 X 11	X			141.75	2 1											
63	41	GREEN	BARNETT RD FM 1634 1 1/4 FAIRWAY BLVD 2 1/4	20 X 6	X			120.00	2 1											
64	42A	GREEN	FAIRWAY BLVD 1 1/2 MCNIEL AVE LAWRENCE RD 2 1/2 LEBANON RD	18.5 X 10	X			185.00	2 1											
64	42B	GREEN	H FM 1634 BARNETT RD FM 1634 1 1/4 EXIT 1/2 MILE	3 X 3 14 X 9.5		X		9.00 133.00	2 1				9.5	9.5	146.3					
64	43A	GREEN	FAIRWAY BLVD 1 MCNIEL AVE LAWRENCE RD 2 LEBANON RD	17 X 10	X			170.00	2 1											
62	43B	GREEN	H FM 1634 BARNETT RD ↗	3 X 3 17.5 X 8		X		9.00 144.00	2 1											

PAGE TOTALS

1767.75

PAGE TOTALS

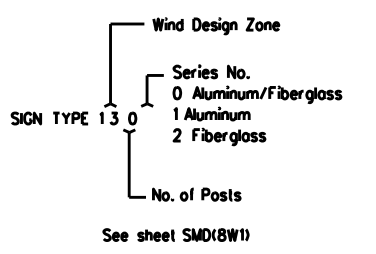
146.3



⊕ The "X" dimension is the elevation difference of the post between the ground and the edge of pavement or top of curb.
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SIGN TYPE



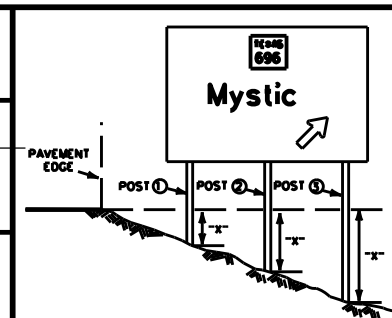
SHEET 4 OF 9

SUMMARY OF LARGE SIGNS SOLS

© TxDOT Mgy. 1987		REVISIONS	
DRN: TxDOT	11-93	1-04	
CHK: TxDOT	8-95	9-08	
DRN: TxDOT	5-01		
CHK: TxDOT			
CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY		SHEET NO.
WFS	WICHITA, ETC.		35

SUMMARY OF LARGE SIGNS - OVERHEAD

PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		MOUNT	"X" DIMENSION			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT			
					DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND (TYPE G)	OVERHEAD (TYPE O)		①	②	post ③	LINEAR FEET			WEIGHT LBS.	LINEAR FEET REINFORCED			
													①	②	post ③		NON-REINF 12"Ø	24"Ø	30"Ø	36"Ø
64	44A	GREEN	MCNIEL AVE LAWRENCE RD 1 1/2 LEBANON RD	18 X 7	X			126.00	2	1										
65	44B	GREEN	FAIRWAY BLVD EXIT 1/2 MILE	12 X 8	X			96.00	2	1										
65	45A	GREEN	MCNIEL AVE LAWRENCE RD 1 LEBANON RD KEMP BLVD	16 X 10	X			160.00	2	1										
65	45B	GREEN	FAIRWAY BLVD ↗	10.5 X 6.5	X			68.25	2	1										
65	46	GREEN	TAFT BLVD HARRISON ST ↗	18 X 6	X			108.00	2	1										
66	47	GREEN	TO NORTH 44 277 281 287 ↓ ↓	22 X 12	X			264.00	2	1			12	12	12	277.2				
66	48	GREEN	MIDWESTERN PKWY EXIT 1/2 MILE	14.5 X 8	X			116.00	2	1										
66	49	GREEN	EAST SOUTH 82 287 TEXARKANA FT WORTH	13.5 X 12	X			162.00	2	1										
67	50	GREEN	WEST SOUTH 82 277 LUBBOCK ABILENE EXIT 3/4 MILE	13.5 X 14	X			189.00	2	1										
								PAGE TOTALS								1289.25				
								PAGE TOTALS									277.2			



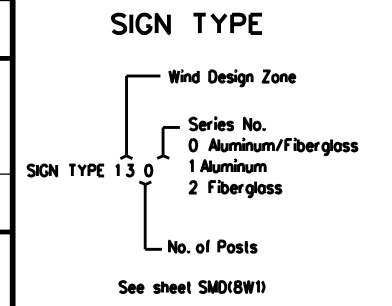
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SHEET 5 OF 9

SUMMARY OF LARGE SIGNS SOLS

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CHK: TxDOT	11-93	1-04	
CHK: TxDOT	8-95	9-08	
CHK: TxDOT	5-01		
CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY		SHEET NO.
WFS	WICHITA, ETC.		36

19

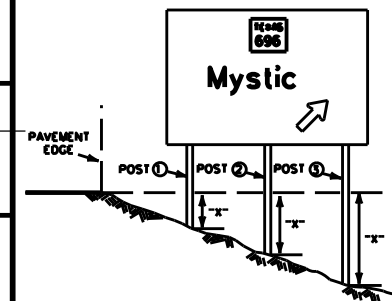
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SUMMARY OF LARGE SIGNS - OVERHEAD

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PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		MOUNT	"X" DIMENSION			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT					
					DIRECT APPLY	ALUMINUM (TYPE A)	GROUND (TYPE G)	OVERHEAD (TYPE O)		1	2	post 3	LINEAR FEET			WEIGHT LBS.	LINEAR FEET REINFORCED					
													1	2	post 3		NON-REINF 12"Ø	24"Ø	30"Ø	36"Ø		
67	51A	GREEN	NORTH 287 AMARILLO	11.5 X 9.5	X			109.25	2	1				9.5	9.5		146.3					
67	51B	GREEN	EAST NORTH NORTH 44 277 281 LAWTON	19.5 X 9.5	X			185.25	2	1				9.5	9.5	9.5	219.45					
68	52A	GREEN	INFO	2.5 X 2.5				6.25	2	1												
68	52A	GREEN	EXIT 1C 8TH ST 1 MILE	7.5 X 2.5 9 X 6				18.75 54.00	2	1				6.0	6.0		92.4					
68	52B	GREEN	EXIT 1B FRONTAGE RD 1/2 MILE	7.5 X 2.5 18.5 X 6				18.75 111.00	2	1				6.0	6.0	6.0	138.6					
68	52C	YELLOW	LANE ENDS MERGE LEFT	10 X 3.5				35.00	2	1				3.5	3.5		53.9					
PAGE TOTALS								538.25									PAGE TOTALS	650.65				



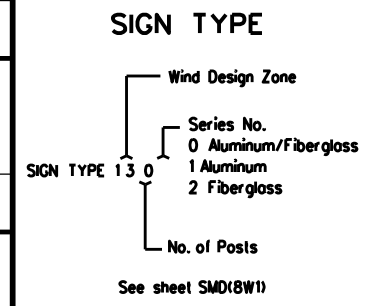
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SHEET 6 OF 9

SUMMARY OF LARGE SIGNS SOLS

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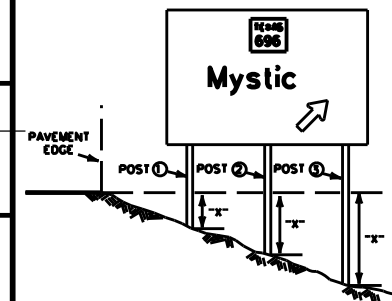
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CHK: TxDOT	11-93 1-04
DRN: TxDOT	8-95 9-08
CHK: TxDOT	5-01

CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	37	

SUMMARY OF LARGE SIGNS - OVERHEAD

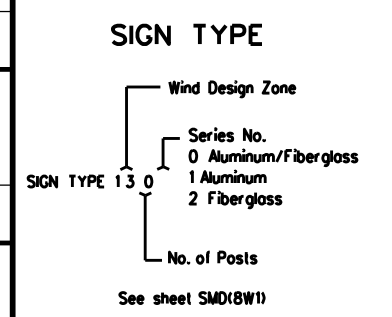
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PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		MOUNT	"X" DIMENSION			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT					
					DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND (TYPE G)	OVERHEAD (TYPE O)		1	2	post 3	LINEAR FEET			WEIGHT LBS.	NON-REINF 12"Ø	LINEAR FEET REINFORCED				
											1	2	3			24"Ø	30"Ø	36"Ø				
69	59A	GREEN	LEFT EXIT 3 A	7.5 X 4.5				33.75	2	1												
69	59A	GREEN	287 NORTH AMARILLO 1 1/2 MILES	22 X 13	X			275.00	2	1			12.5	12.5	12.5	288.75						
		YELLOW	EXIT ↓ ONLY ↓																			
69	59B	GREEN	EXIT 1D BUSINESS 287 1/2 MILE	7.5 X 2.5 10 X 9		X		18.75 90.00	2	1												
70	59C	BLUE	INFO	2.5 X 2.5				6.25	2	1												
70	59C	GREEN	EXIT 1C 8TH ST	7.5 X 2.5 9 X 7				18.75 63.00	2	1			7.0	7.0		107.8						
70	60A	GREEN	LEFT EXIT 3 A	7.5 X 4.5				33.75	2	1												
70	60A	GREEN	287 NORTH AMARILLO 1 MILE	22 X 13	X			275.00	2	1			12.5	12.5	12.5	288.75						
		YELLOW	EXIT ↓ ONLY ↓																			
71	60B	GREEN	EXIT 1D BUSINESS 287	7.5 X 2.5 10 X 10		X		18.75 100.00	2	1			10.0	10.0		154.0						
71	62	GREEN	LEFT EXIT 3 A	7.5 X 4.5				33.75	2	1												
71	62	GREEN	287 NORTH AMARILLO EXIT ↓ ONLY ↓	22 X 10.5	X			231.00														
		YELLOW																				
PAGE TOTALS																						
								1197.75	PAGE TOTALS								839.3					



The "X" dimension is the elevation difference of 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.



SHEET 7 OF 9

SUMMARY OF LARGE SIGNS

SOLS

© TxDOT Mgy. 1987		REVISIONS	
DRN: TxDOT	11-93	1-04	
CHK: TxDOT	8-95	9-08	
DRN: TxDOT	5-01		
CHK: TxDOT			
CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY		SHEET NO.
WFS	WICHITA, ETC.		38

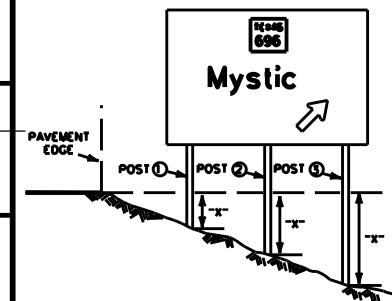
19

SUMMARY OF LARGE SIGNS - OVERHEAD

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: 4/19/2024 1:19:24 PM
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PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		MOUNT	"X" DIMENSION			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT			
					DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND (TYPE G)	OVERHEAD (TYPE O)		①	②	post ③	LINEAR FEET			WEIGHT LBS.	NON-REINF 12"Ø	LINEAR FEET REINFORCED		
													①	②	post ③			24"Ø	30"Ø	36"Ø
72	65A	GREEN	LEFT EXIT 3 A	7.5 X 4.5				33.75	2	1										
72	65A	GREEN	287 NORTH AMARILLO	22 X 11	X			231.00	2	1										
		YELLOW	EXIT ONLY ↗ ↘																	
72	65B	GREEN	EAST NORTH NORTH 44 277 281 LAWTON ↓	19.5 X 12	X			234.00	2	1										
73	66	GREEN	EXIT 3 C FM 890 AIRPORT DR 1/2 MILE	7.5 X 2.5 13.5 X 10		X		18.75 135.00	2	1			10.0	10.0		154.0				
73	73A	BLUE	AIRPLANE PLAQUE	3 X 3				9.00	2	1										
73	73A	GREEN	EXIT 3 B NORTH 325 SHEPPARD 1/2 MILE	7.5 X 2.5 17.5 X 12		X		18.75 210.00	2	1			12.0	12.0	12.0	277.2				
74	73B	GREEN	EXIT 3 A NORTH 287 AMARILLO ↗	7.5 X 2.5 11.5 X 13		X		18.75 149.50	2	1			13.0	13.0		200.2				
74	74	BLUE	AIRPLANE PLAQUE	3 X 3				9.00	2	1										
74	74	GREEN	EXIT 3 B NORTH 325 SHEPPARD ↗	7.5 X 2.5 17.5 X 13		X		18.75 227.50	2	1			13.0	13.0	13.0	300.3				
								PAGE TOTALS							PAGE TOTALS					
															931.7					



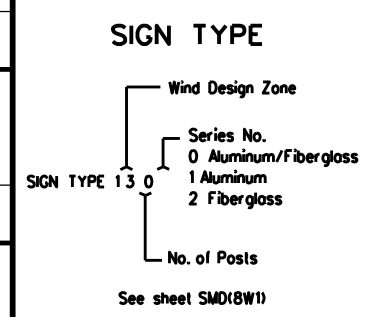
The "X" dimension is the elevation difference of the post between the ground and the edge of pavement or top of curb.

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.

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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.



SHEET 8 OF 9

SUMMARY OF LARGE SIGNS SOLS

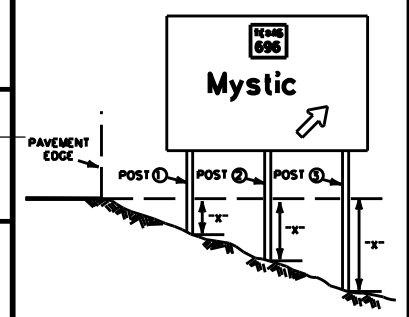
© TxDOT Mgy. 1987			
DR: TxDOT	REVISIONS		
CHK: TxDOT	11-93 1-04		
DR: TxDOT	8-95 9-08		
CHK: TxDOT	5-01		
CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	39	

19

SUMMARY OF LARGE SIGNS - OVERHEAD

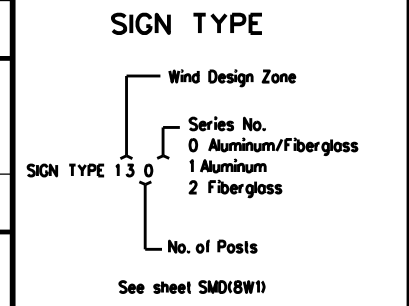
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 DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or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

PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		MOUNT	"X" DIMENSION			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT		
					DIRECT APPLY	ALUMINUM (TYPE A)	GROUND (TYPE G)	OVERHEAD (TYPE O)		①	②	post ③	LINEAR FEET			WEIGHT LBS.	LINEAR FEET REINFORCED		
													①	②	post ③		NON-REINF 12"Ø	24"Ø	30"Ø
75	86A	GREEN	H TO WEST BUSINESS 70 287 PLAINVIEW EXIT 1 MILE	3 X 3 16 X 14		X		9.00 224.00	2 1				14.0 14.0 14.0	323.4					
75	86B	GREEN	BENTLEY ST ↗	13.5 X 6.5				87.75	2 1										
PAGE TOTALS								320.75						PAGE TOTALS	323.4				



⊕ The "X" dimension is the elevation difference of 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.


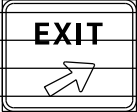



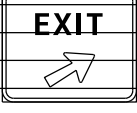
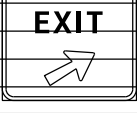
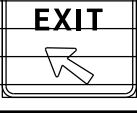






SHEET 9 OF 9

SUMMARY OF LARGE SIGNS SOLS

© TxDOT Mgy. 1987		REVISIONS	
DRN: TxDOT	11-93	1-04	
CHK: TxDOT	8-95	9-08	
DRN: TxDOT	5-01		
CHK: TxDOT			
CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY		SHEET NO.
WFS	WICHITA, ETC.		40

SUMMARY OF SMALL SIGNS

PLAN 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)				BRIDGE MOUNT CLEARANCE SIGNS (See Note 2)	
							POST TYPE	POSTS	ANCHOR TYPE	MOUNTING DESIGNATION		
							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	PREFABRICATED P - "Plain" T - "T" U - "U"		TEXT or 2EXT - * of Ext BM - Extruded Wind Beam WC - 1.12 "/ft Wing Channel EXAL - Extruded Alum Sign Panels
76	1	E21-4T		120 x 60		1	S80	2	SA	P	EXAL	
77	8	E5-1		72 x 60		1	S80	2	SA	P	EXAL	
77	11	E5-1		72 x 60		1	S80	2	SA	P	EXAL	
77	12	E5-1		72 x 60		1	S80	2	SA	P	EXAL	
77	13	E5-1		72 x 60		1	S80	2	SA	P	EXAL	
77	14	E5-1		72 x 60		1	S80	2	SA	P	EXAL	
77	15	E5-1		72 x 60		1	S80	2	SA	P	EXAL	
77	23	E5-1		72 x 60		1	S80	2	SA	P	EXAL	
76	33	E5-1c		60 x 90		1	S80	2	SA	P	EXAL	
77	53	W9-1R		48 x 48		1						
76	61	E5-1c		60 x 90		1	S80	2	SA	P	EXAL	
76	63	E5-1c		60 x 90		1	S80	2	SA	P	EXAL	

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 DATE: 4/19/2024 1:39:43 PM
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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/>

- NOTE:**
- 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.
 - For installation of bridge mount clearance signs, see Bridge Mounted Clearance Sign Assembly (BMCS) Standard Sheet.
 - For Sign Support Descriptive Codes, see Sign Mounting Details Small Roadside Signs General Notes & Details SMD(GEN).



SUMMARY OF SMALL SIGNS

SOSS

FILE: sums16.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT May 1987	CONT	SECT	JOB	HIGHWAY
REVISIONS	6428	42	001	IH-44, ETC.
4-16	DIST	COUNTY	SHEET NO.	
8-16	WFS	WICHITA, ETC.	41	

SUMMARY OF SMALL SIGNS

DATE: 4/19/2024 11:02:25 PM
 FILE: I:\WFSMAINT\Maintenance Projects\6428-42-001 Lq Sign Rplcmt FY2024\4 - 06428-42-001 Lq Sign Rplcmt FY2024.dgn
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PLAN 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)				BRIDGE MOUNT CLEARANCE SIGNS (See Note 2)	
							POST TYPE	POSTS	ANCHOR TYPE	MOUNTING DESIGNATION		
							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	PREFABRICATED P - "Plain" T - "T" U - "U"		TEXT or 2EXT - of Ext BM - Extruded Wind Beam WC - 1.12 "/ft Wing Channel EXAL - Extruded Alum Sign Panels
76	67	E5-1c		60 x 90		1	S80	2	SA	P	EXAL	
76	69	E5-1c		60 x 90		1	S80	2	SA	P	EXAL	
76	75	E5-1c		60 x 90		1	S80	2	SA	P	EXAL	
77	81	E5-1		72 x 60		1	S80	2	SA	P	EXAL	
77	82	E5-1		72 x 60		1	S80	2	SA	P	EXAL	
77	83	E5-1		72 x 60		1	S80	2	SA	P	EXAL	
78	BMCS1A	W12-2a		84 x 24								TY S
78	BMCS1B	W12-2a		84 x 24								TY S
78	BMCS2A	W12-2a		84 x 24								TY S
78	BMCS2B	W12-2a		84 x 24								TY S
78	BMCS3A	W12-2a		84 x 24								TY S
78	BMCS3B	W12-2a		84 x 24								TY S

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"

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 - For Sign Support Descriptive Codes, see Sign Mounting Details Small Roadside Signs General Notes & Details SMD(GEN).



SUMMARY OF SMALL SIGNS

SOSS

FILE: sum16.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT May 1987	CONT: 6428	SECT: 42	JOB: 001	HIGHWAY: IH-44, ETC.
4-16	DIST: WFS	COUNTY: WICHITA, ETC.	SHEET NO.: 42	

SUMMARY OF SMALL SIGNS

DATE: 4/19/2024 11:02:25 PM
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PLAN 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)				BRIDGE MOUNT CLEARANCE SIGNS (See Note 2)
							POST TYPE	POSTS	ANCHOR TYPE	MOUNTING DESIGNATION	
							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	PREFABRICATED P - "Plain" T - "T" U - "U" EXT or 2EXT - * of Ext BM - Extruded Wind Beam WC - 1.12 "/ft Wing Channel EXAL - Extruded Alum Sign Panels	
78	BMCS4A	W12-2a		84 x 24							TY S
78	BMCS4B	W12-2a		84 x 24							TY S
78	BMCS5A	W12-2a		84 x 24							TY S
78	BMCS5B	W12-2a W12-3TP	 	84 x 24 18 x 24							TY S
78	BMCS6	W12-2a		84 x 24							TY S
78	BMCS7	W12-2a		84 x 24							TY S

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"

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 - For Sign Support Descriptive Codes, see Sign Mounting Details Small Roadside Signs General Notes & Details SMD(GEN).

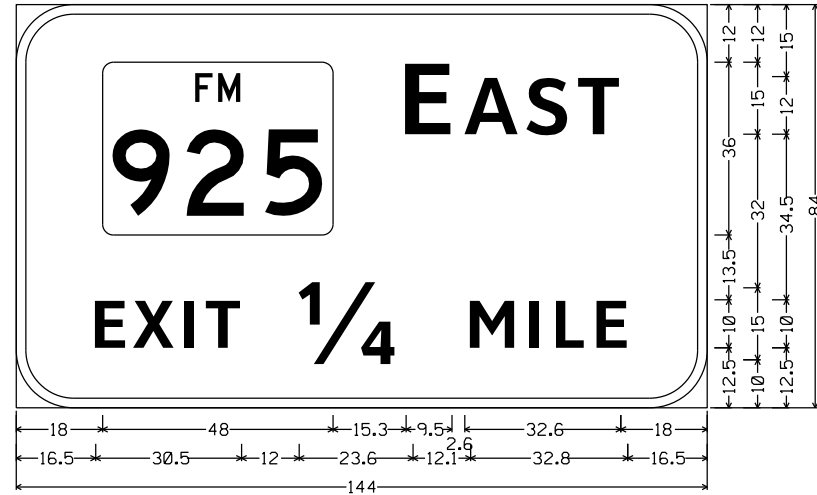


SUMMARY OF SMALL SIGNS

SOSS

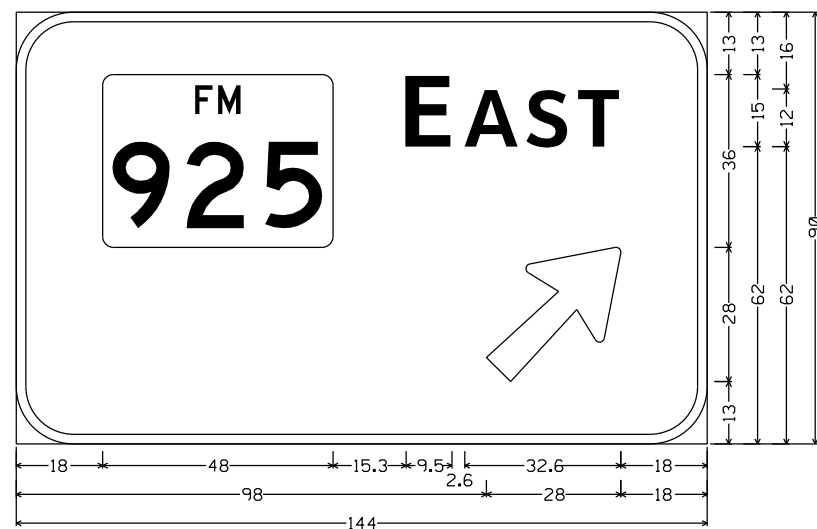
FILE: sum16.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT May 1987	CONT	SECT	JOB	HIGHWAY
REVISIONS	6428	42	001	IH-44, ETC.
4-16	DIST	COUNTY	SHEET NO.	
8-16	WFS	WICHITA, ETC.	43	

DATE: 4/22/2024 10:06:45 AM
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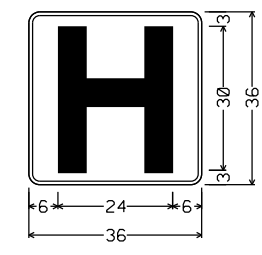
12.0" Radius, 2.0" Border, White on Green;
 State Highway 925 MI-6F3; *E AST*, ClearviewHwy-5-W-R;
 EXIT, ClearviewHwy-5-W-R; *5/64", ClearviewHwy-5-W-R; *MILE*, ClearviewHwy-5-W-R;

SIGN #2: US287 SB
 FM 925 EXIT 1/4 MILE



12.0" Radius, 2.0" Border, White on Green;
 State Highway 925 MI-6F3; *E AST*, ClearviewHwy-5-W-R; Arrow A-3 - 35.6" 45³³/₆₄;

SIGN #3: US287 SB
 FM 925 EXIT ARROW RIGHT

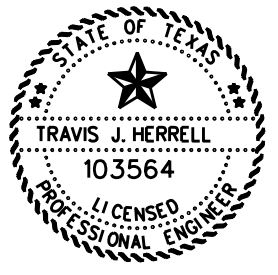


D9-2.36x36;
 2.3" Radius, 0.8" Border, White on Blue;
 H, E Mod;



12.0" Radius, 2.0" Border, White on Green;
 * TO*, ClearviewHwy-5-W-R; *W EST*, ClearviewHwy-5-W-R; US 70 MI-4; *BUSINESS*, ClearviewHwy-5-W-R;
 US 287 MI-4; *Plainview*, ClearviewHwy-5-W-R; *EXIT 3/64 MILE*, ClearviewHwy-5-W-R;

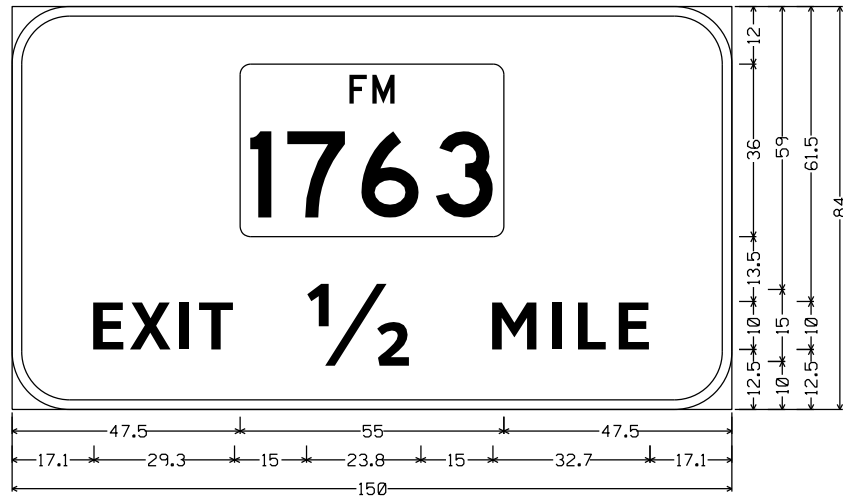
SIGN #4: US287 SB
 US 70 PLAINVIEW EXIT 3/4 MILE



IH-44, ETC.
 LARGE GROUND
 MOUNT SIGN
 DETAILS

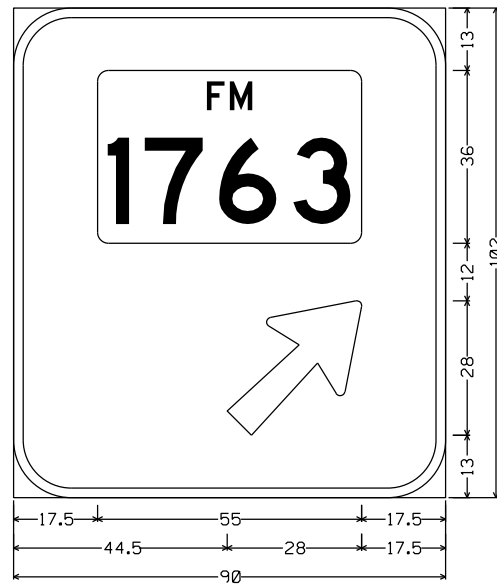
© TxDOT 2024		SHEET 1 OF 8	
CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	44	

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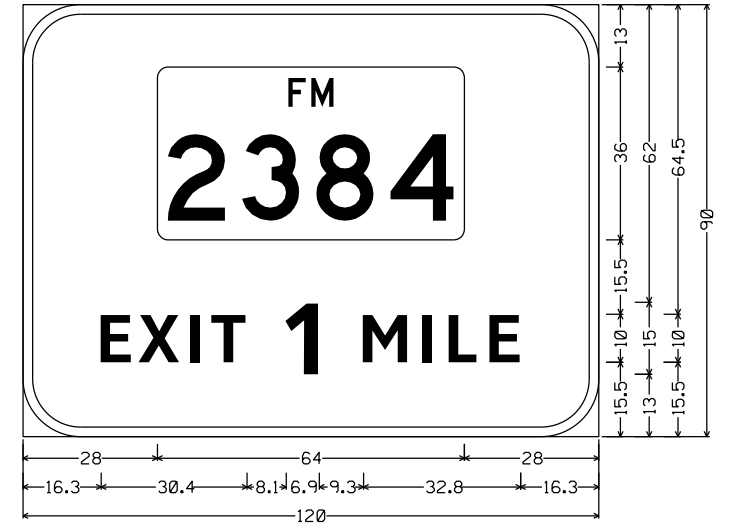
12.0" Radius, 2.0" Border, White on Green;
 State Highway 1763 MI-6F4; 'EXIT', ClearviewHwy-5-W-R 82% spacing;
 *5%₆₄, ClearviewHwy-5-W-R; 'MILE', ClearviewHwy-5-W-R;

SIGN #9: US287 SB
 FM 1763 EXIT 1/2 MILE



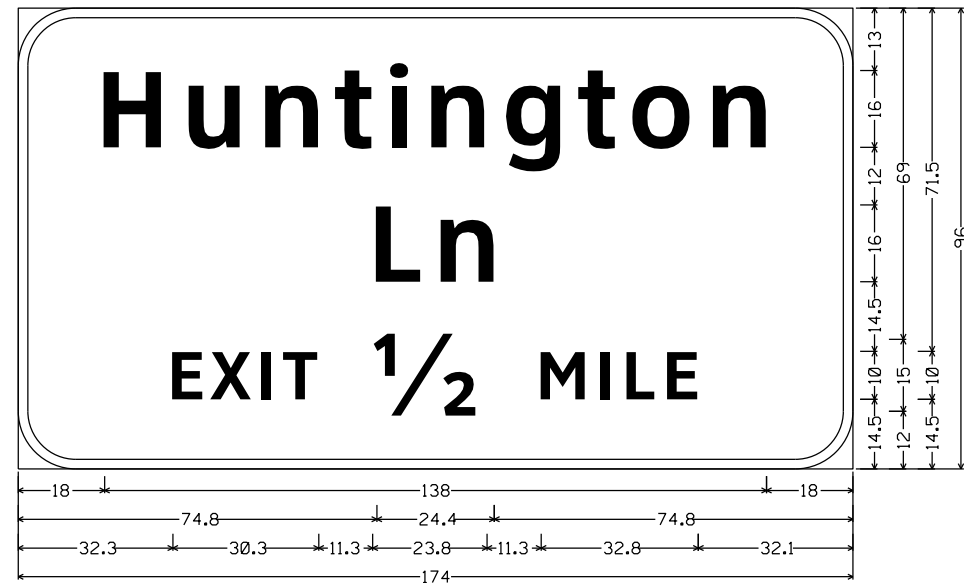
12.0" Radius, 2.0" Border, White on Green;
 State Highway 1763 MI-6F4; Arrow A-3 - 35.6' 45³³/₆₄;

SIGN #10: US287 SB
 FM 1763 EXIT ARROW RIGHT



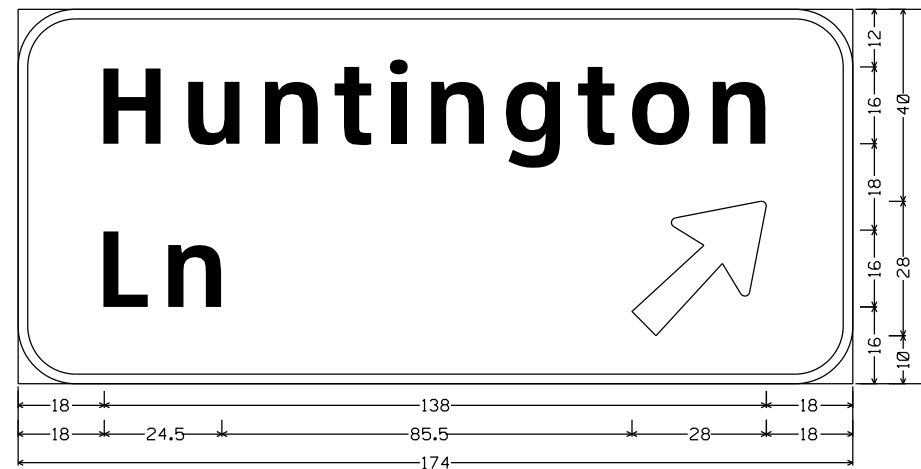
12.0" Radius, 2.0" Border, White on Green;
 State Highway 2384 MI-6F4; 'EXIT 1 MILE', ClearviewHwy-5-W-R;

SIGN #16: US287 SB
 FM 2384 EXIT 1 MILE



12.0" Radius, 2.0" Border, White on Green;
 'Huntington', ClearviewHwy-5-W-R; 'Ln', ClearviewHwy-5-W-R; 'EXIT 5%₆₄ MILE', ClearviewHwy-5-W-R;

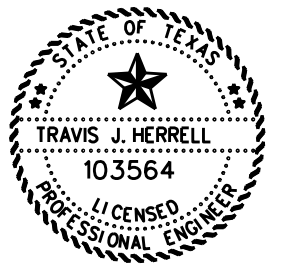
SIGN #17: US287 SB
 HUNTINGTON LN EXIT 1/2 MILE



12.0" Radius, 2.0" Border, White on Green;
 'Huntington', ClearviewHwy-5-W-R; 'Ln', ClearviewHwy-5-W-R; Arrow A-3 - 35.6' 45³³/₆₄;

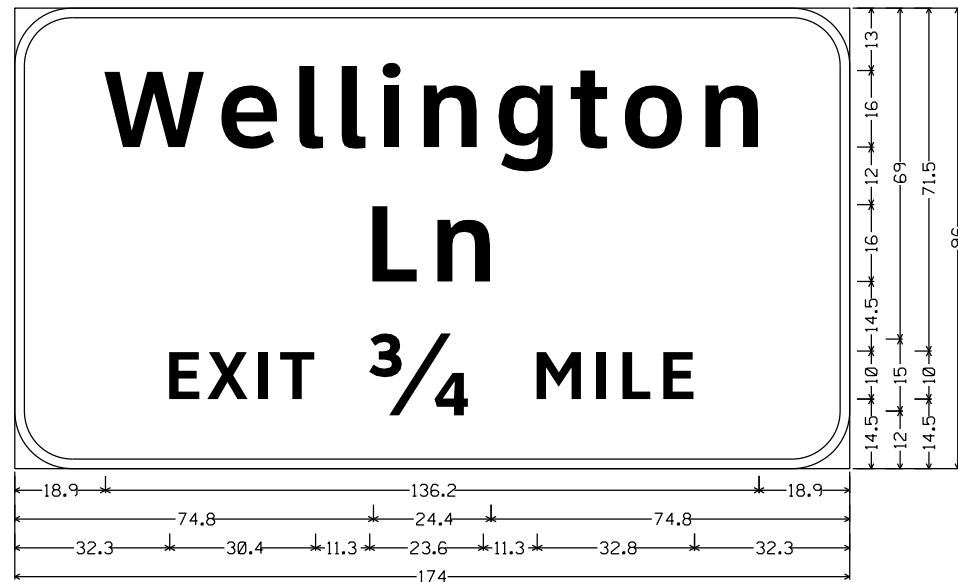
SIGN #18: US287 SB
 HUNTINGTON LN EXIT ARROW RIGHT

SIGN #80: US287 NB
 HUNTINGTON LN EXIT ARROW RIGHT



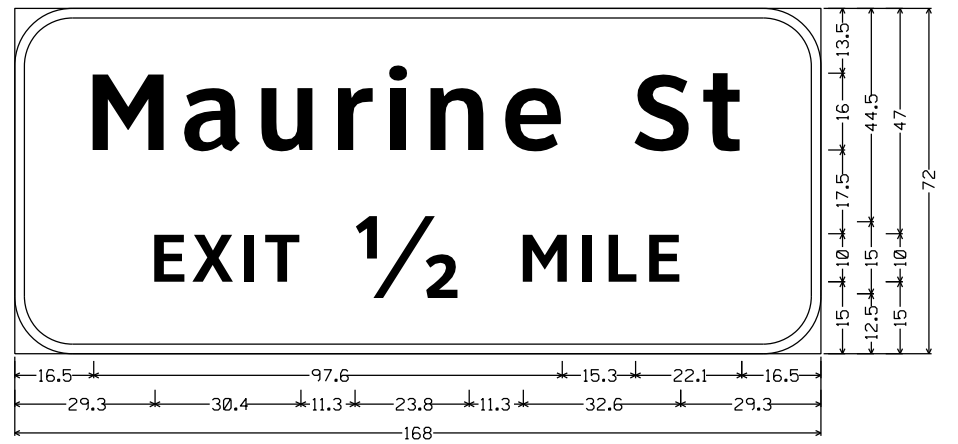
IH-44, ETC.
 LARGE GROUND
 MOUNT SIGN
 DETAILS

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CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	45	



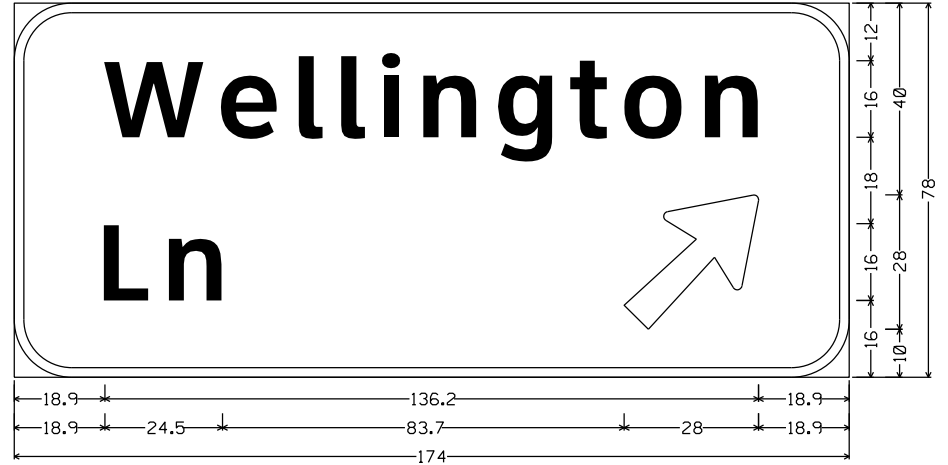
12.0' Radius, 2.0' Border, White on Green;
 Wellington, ClearviewHwy-5-W-R; *Ln*, ClearviewHwy-5-W-R; *EXIT 3/4 MILE*, ClearviewHwy-5-W-R;

SIGN #19: US287 SB
 WELLINGTON LN EXIT 3/4 MILE



12.0' Radius, 2.0' Border, White on Green;
 Maurine St, ClearviewHwy-5-W-R; *EXIT 1/2 MILE*, ClearviewHwy-5-W-R;

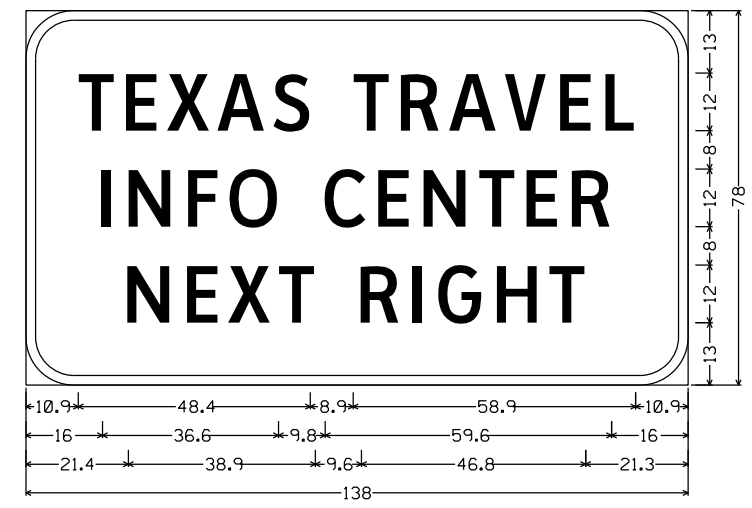
SIGN #24: US287 SB
 MAURINE ST EXIT 1/2 MILE



12.0' Radius, 2.0' Border, White on Green;
 Wellington, ClearviewHwy-5-W-R; *Ln*, ClearviewHwy-5-W-R; Arrow A-3 - 35.6' 45³³/₆₄;

SIGN #20: US287 SB
 WELLINGTON LN EXIT ARROW RIGHT

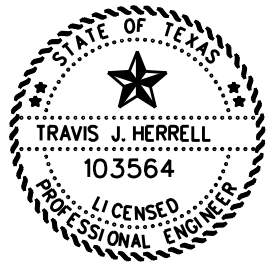
SIGN #78: US 287 NB
 WELLINGTON LN EXIT ARROW RIGHT



E21-14T_138x102;
 10.0' Radius, 2.0' Border, White on Blue;
 TEXAS TRAVEL, ClearviewHwy-3-W; *INFO CENTER*, ClearviewHwy-3-W;
 NEXT RIGHT, ClearviewHwy-3-W;

SIGN #27: US287 SB
 TEXAS TIC NRXT RIGHT

SIGN #58: IH44 EB
 TEXAS TIC NEXT RIGHT

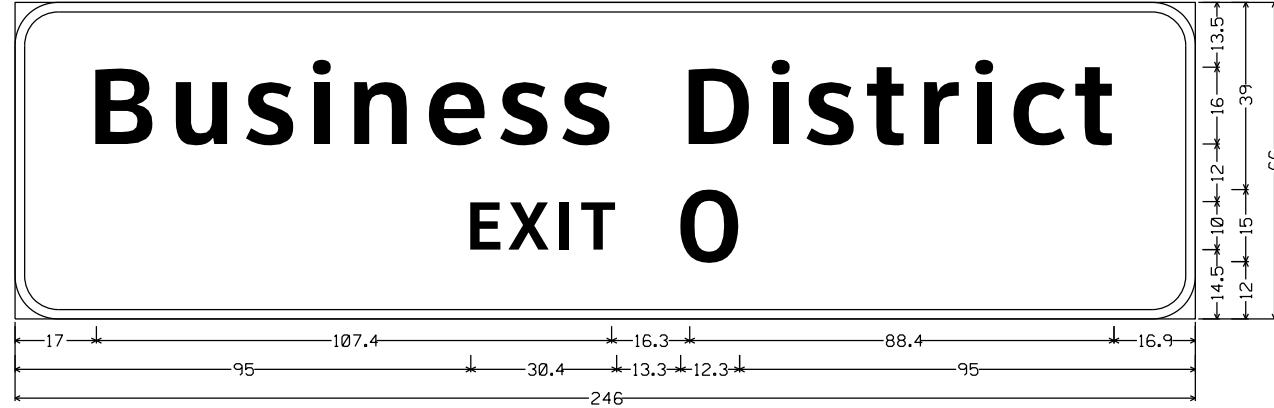


IH-44, ETC.
 LARGE GROUND
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 DETAILS

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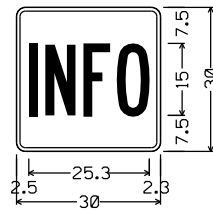
CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	46	

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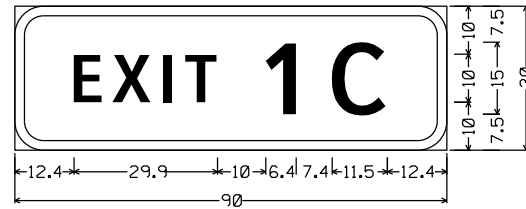


E1-2-VARx120;
 9.0" Radius, 2.0" Border, White on Green;
 Business District, ClearviewHwy-5-W-R; *EXIT 0*, ClearviewHwy-5-W-R;

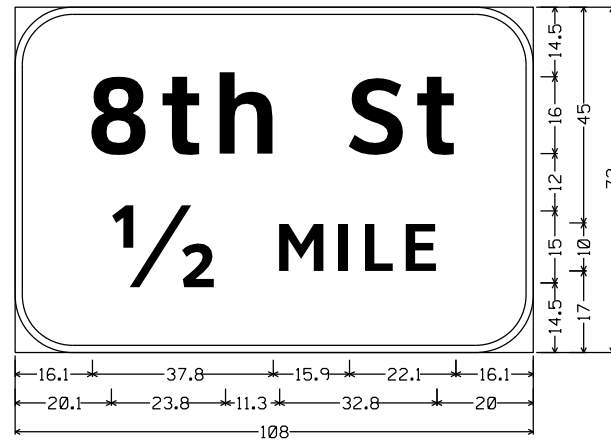
SIGN #30: US287 SB
 BUSINESS DISTRICT EXIT 0



D9-10_30x30;
 1.9" Radius, 0.8" Border, White on Blue;
 INFO, B 58% spacing;

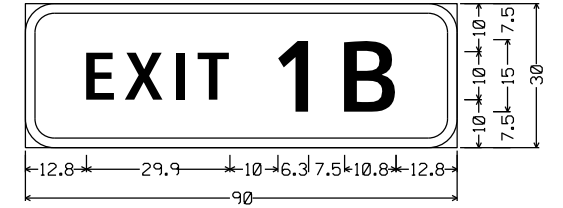


E1-5P_90x30;
 6.0" Radius, 2.0" Border, White on Green;
 EXIT 1, ClearviewHwy-4-W;
 C, ClearviewHwy-4-W specified length;

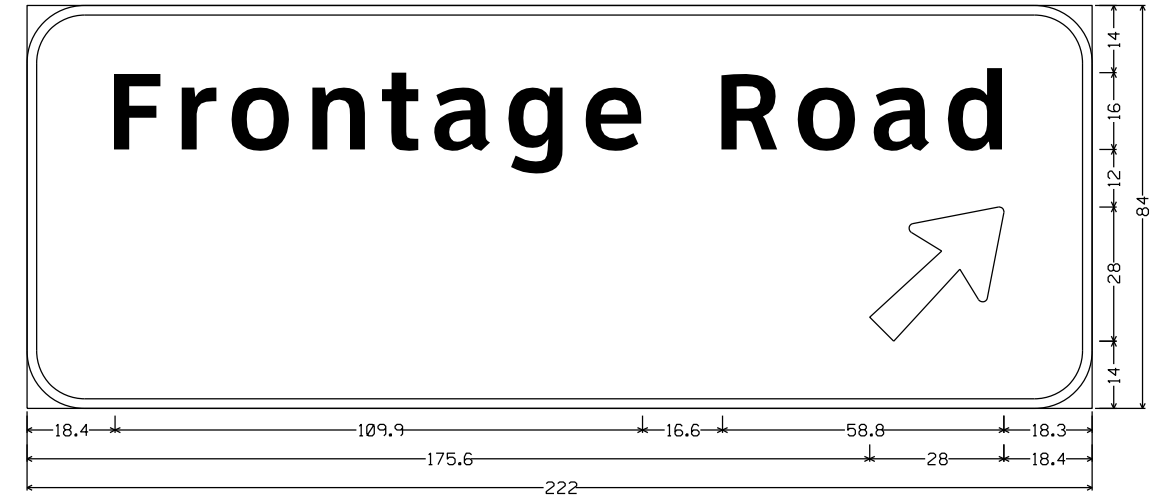


E1-2-VARx120;
 12.0" Radius, 1.5" Border, White on Green;
 8th St, ClearviewHwy-5-W-R; *1/2 MILE*, ClearviewHwy-5-W-R;

SIGN #57: IH44 EB
 8TH ST 1/2 MILE
 EXIT 1 C

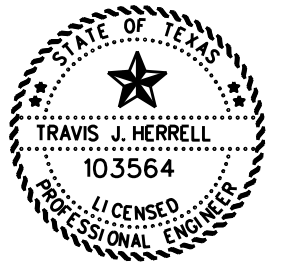


E1-5P_90x30;
 6.0" Radius, 2.0" Border, White on Green;
 EXIT 1, ClearviewHwy-4-W;
 B, ClearviewHwy-4-W specified length;



E1-2-VARx120;
 12.0" Radius, 2.0" Border, White on Green;
 Frontage Road, ClearviewHwy-5-W-R; Arrow A-3 - 35.6" 45³³/₆₄;

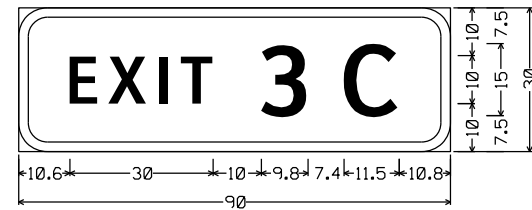
SIGN #56: IH44 EB
 FRONTAGE ROAD ARROW RIGHT
 EXIT 1 B



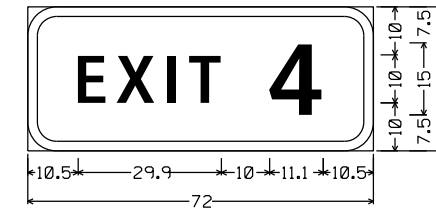
IH-44, ETC.
 LARGE GROUND
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CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	47	

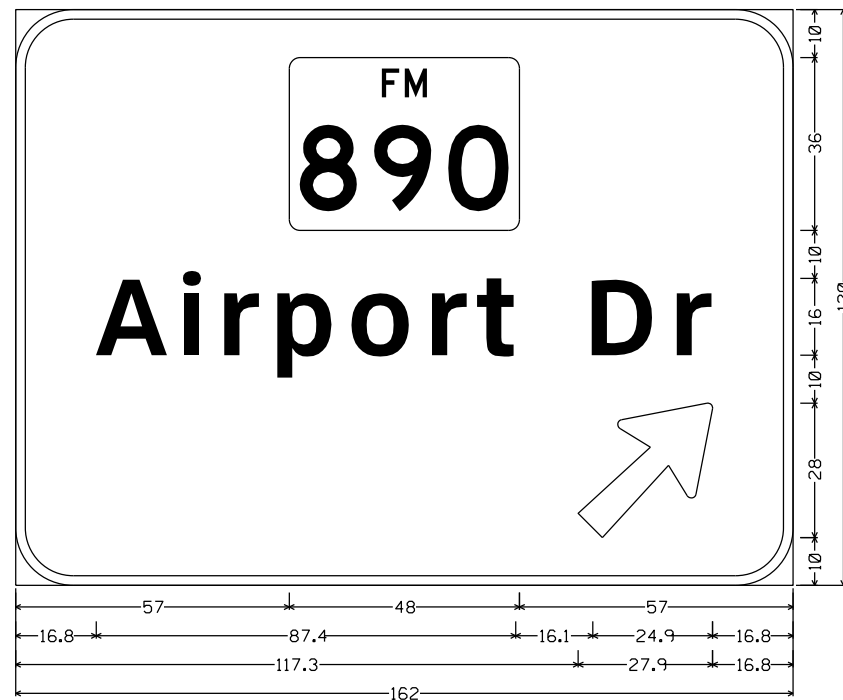
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E1-5P-90x30;
 6.0" Radius, 2.0" Border, White on Green;
 EXIT 3, ClearviewHwy-4-W;
 C, ClearviewHwy-4-W specified length;

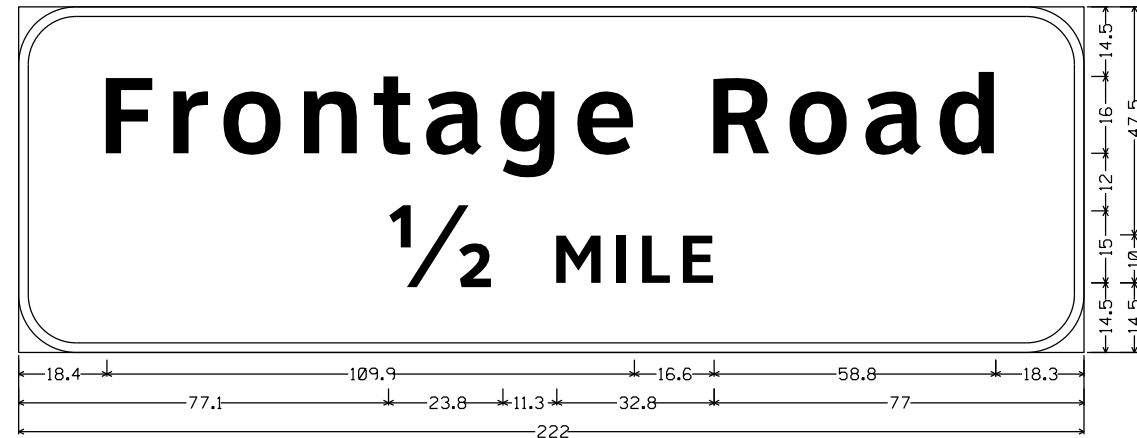


E1-5P-72x30;
 6.0" Radius, 2.0" Border, White on Green;
 EXIT 4, ClearviewHwy-4-W;



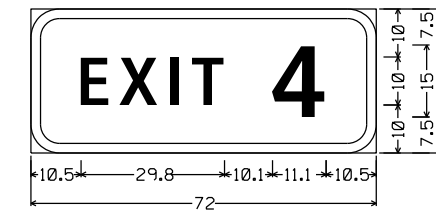
E1-2.VARx120;
 12.0" Radius, 2.0" Border, White on Green;
 State Highway 890 MI-6F3; *Airport Dr*, ClearviewHwy-5-W-R; Arrow A-3 - 35.6° 45³³/₆₄;

SIGN #68: IH44 EB
 FM 890 AIRPORT DR 1/2 MILE
 EXIT 3 C

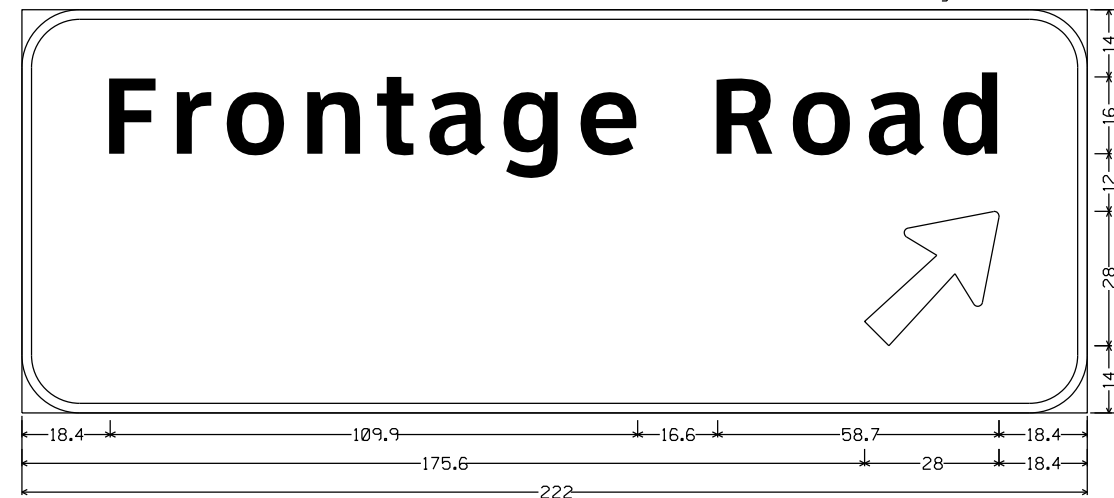


E1-2.VARx120;
 12.0" Radius, 2.0" Border, White on Green;
 Frontage Road, ClearviewHwy-5-W-R; *5⁵/₆₄ MILE*, ClearviewHwy-5-W-R;

SIGN #70: IH44 EB
 FRONTAGE RD 1/2 MILE
 EXIT 4

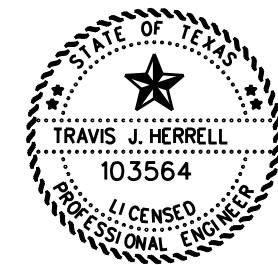


E1-5P-72x30;
 6.0" Radius, 2.0" Border, White on Green;
 EXIT 4, ClearviewHwy-4-W;



E1-2.VARx120;
 12.0" Radius, 2.0" Border, White on Green;
 Frontage Road, ClearviewHwy-5-W-R; Arrow A-3 - 35.6° 45³³/₆₄;

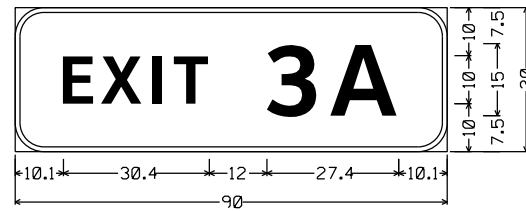
SIGN #71: IH44 EB
 FRONTAGE RD ARROW RIGHT
 EXIT 4



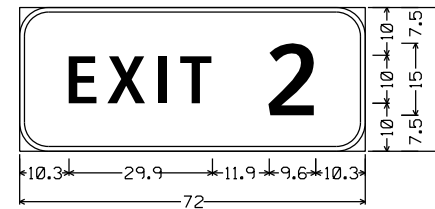
Texas Department of Transportation
 IH-44, ETC.
 LARGE GROUND
 MOUNT SIGN
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CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	48	

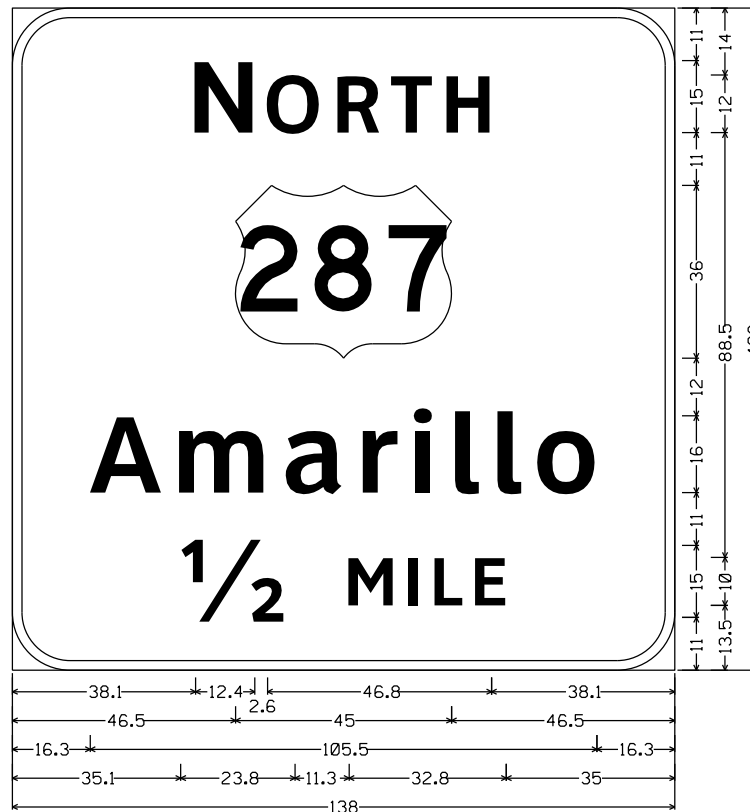
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6.0" Radius, 1.0" Border, White on Green;
 EXIT, ClearviewHwy-5-W-R;
 3A, ClearviewHwy-5-W-R;

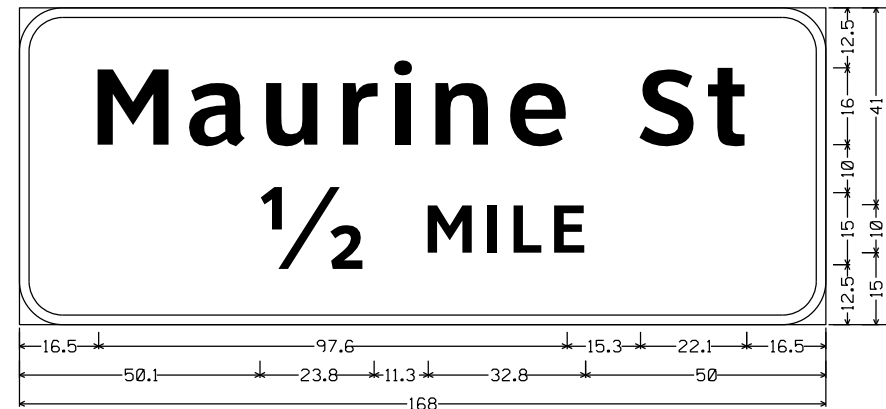


E1-5P-72x30;
 6.0" Radius, 1.0" Border, White on Green;
 EXIT 2, ClearviewHwy-4-W;



12.0" Radius, 2.0" Border, White on Green;
 N ORTH, ClearviewHwy-5-W-R; US 287 MI-4; *Amarillo*, ClearviewHwy-5-W-R;
 5/64 MILE, ClearviewHwy-5-W-R;

SIGN #72: IH44 WB
 US 287 AMARILLO 1/2 MILE
 EXIT 3 A



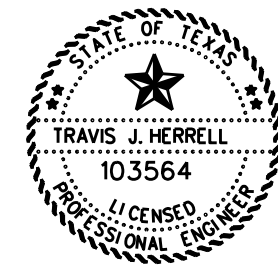
9.0" Radius, 2.0" Border, White on Green;
 Maurine St, ClearviewHwy-5-W-R; *5/64 MILE*, ClearviewHwy-5-W-R;

SIGN #76: IH44 WB
 MAURINE ST 1/2 MILE
 EXIT 2



12.0" Radius, 2.0" Border, White on Green;
 Wellington, ClearviewHwy-5-W-R; *Ln*, ClearviewHwy-5-W-R; *EXIT*, ClearviewHwy-5-W-R;
 1, ClearviewHwy-5-W-R; *MILE*, ClearviewHwy-5-W-R;

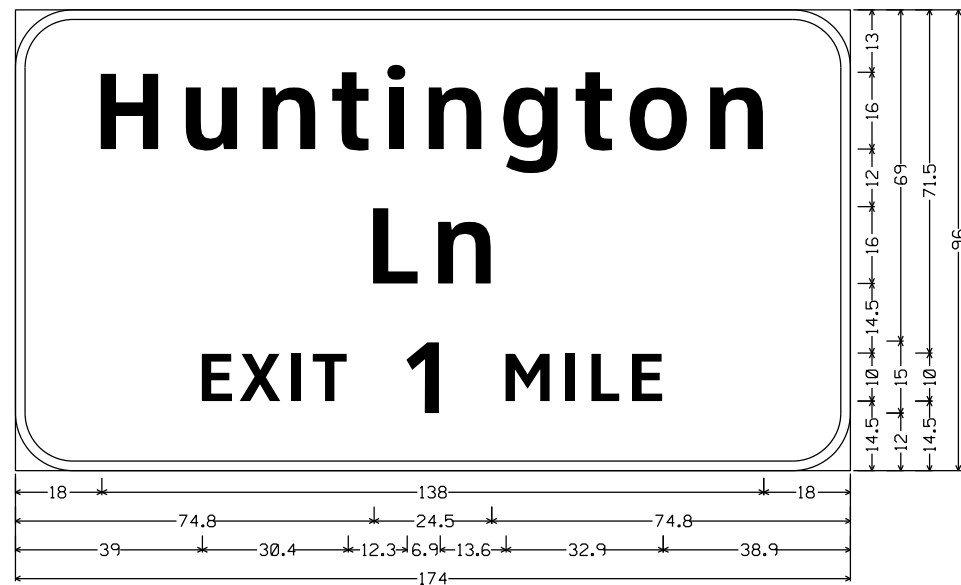
SIGN #77: US287 NB
 WELLINGTON LN EXIT 1 MILE



IH-44, ETC.
 LARGE GROUND
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 DETAILS

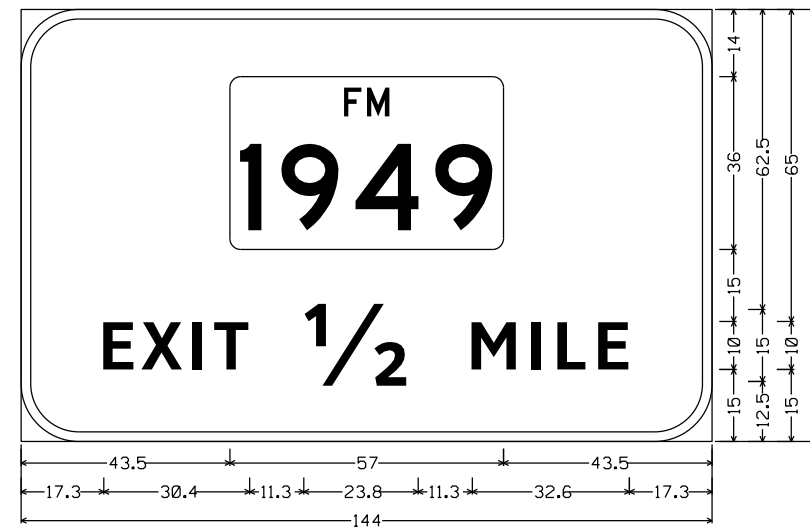
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CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	49	



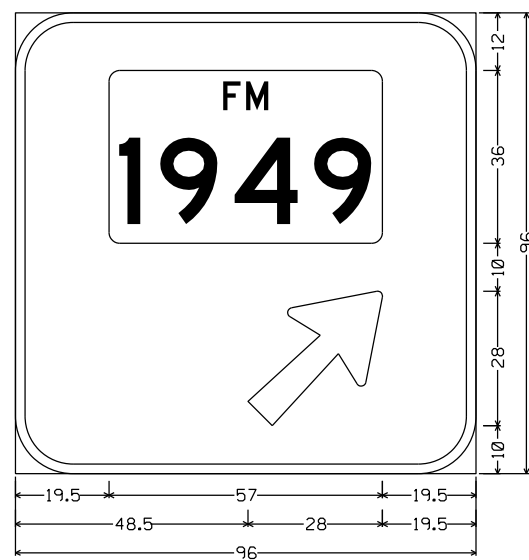
12.0" Radius, 2.0" Border, White on Green;
 "Huntington", ClearviewHwy-5-W-R; "Ln", ClearviewHwy-5-W-R; "EXIT 1 MILE", ClearviewHwy-5-W-R;

SIGN #79: US287 NB
 HUNTINGTON LN EXIT 1 MILE



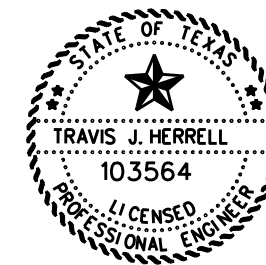
12.0" Radius, 2.0" Border, White on Green;
 State Highway 1949 MI-6F4; "EXIT 1/2 MILE", ClearviewHwy-5-W-R;

SIGN #84: US287 NB
 FM 1949 EXIT 1/2 MILE



12.0" Radius, 2.0" Border, White on Green;
 State Highway 1949 MI-6F4; Arrow A-3 - 35.6" 45³³/₆₄;

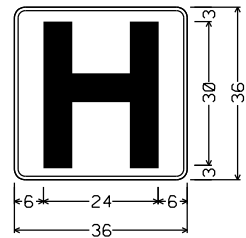
SIGN #85: US287 NB
 FM 1949 EXIT ARROW RIGHT



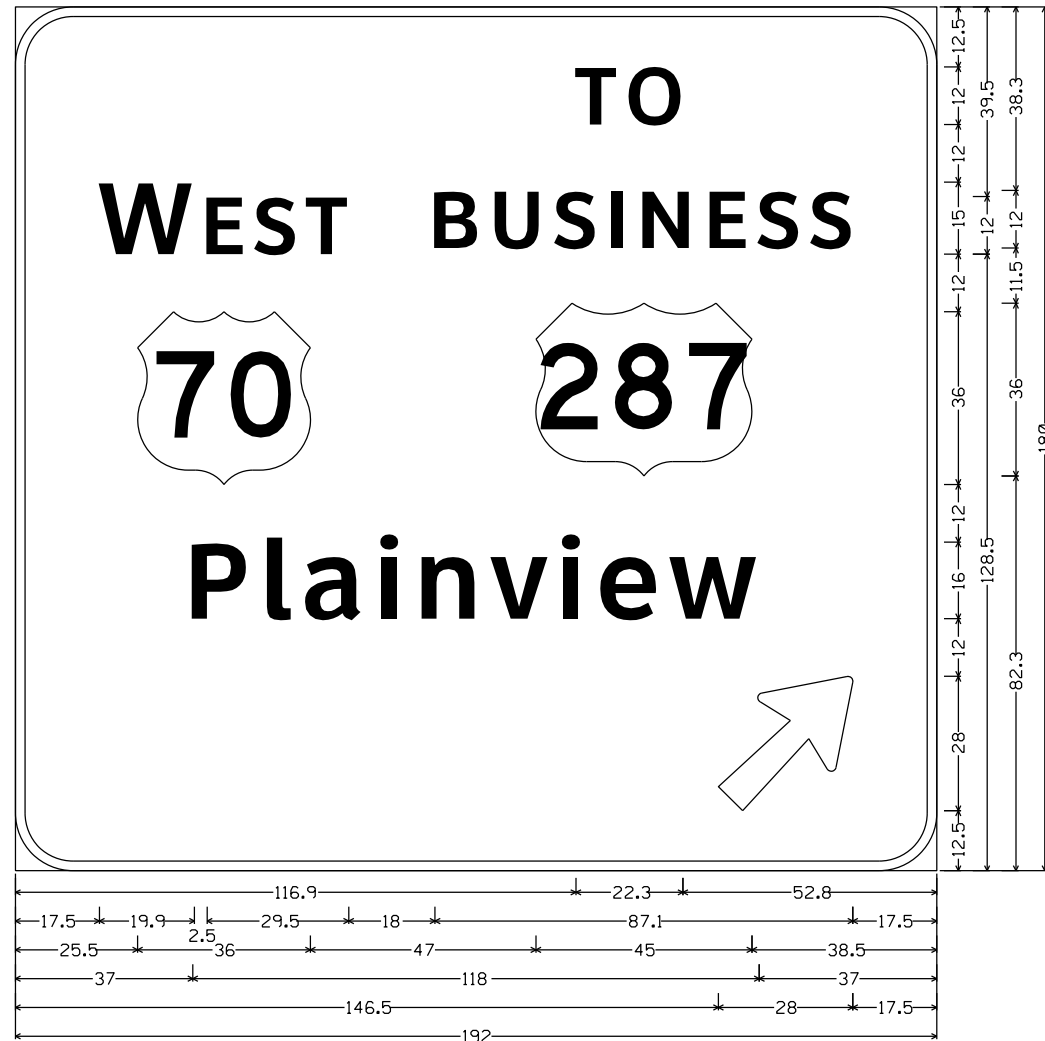
IH-44, ETC.
 LARGE GROUND
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CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	50	

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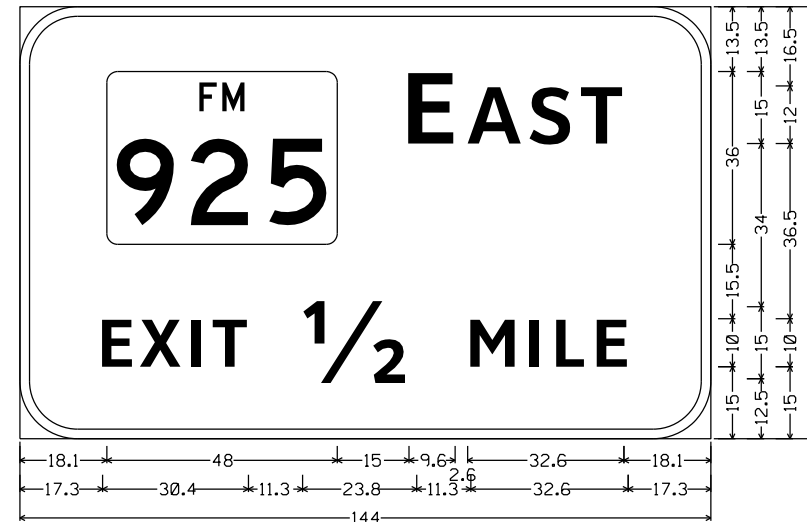


D9-2_36x36;
 2.3" Radius, 0.8" Border, White on Blue;
 "H", E Mod;



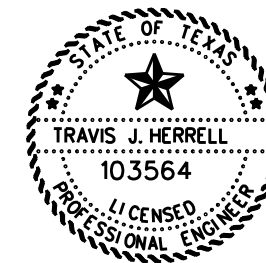
12.0" Radius, 2.0" Border, White on Green;
 " TO", ClearviewHwy-5-W-R; "W EST", ClearviewHwy-5-W-R; US 70 M1-4; "BUSINESS", ClearviewHwy-5-W-R;
 US 287 M1-4; "Plainview", ClearviewHwy-5-W-R; Arrow A-3 - 35.6" 45³³/₆₄;

SIGN #89: US287 NB
 US 70 PLAINVIEW EXIT ARROW RIGHT



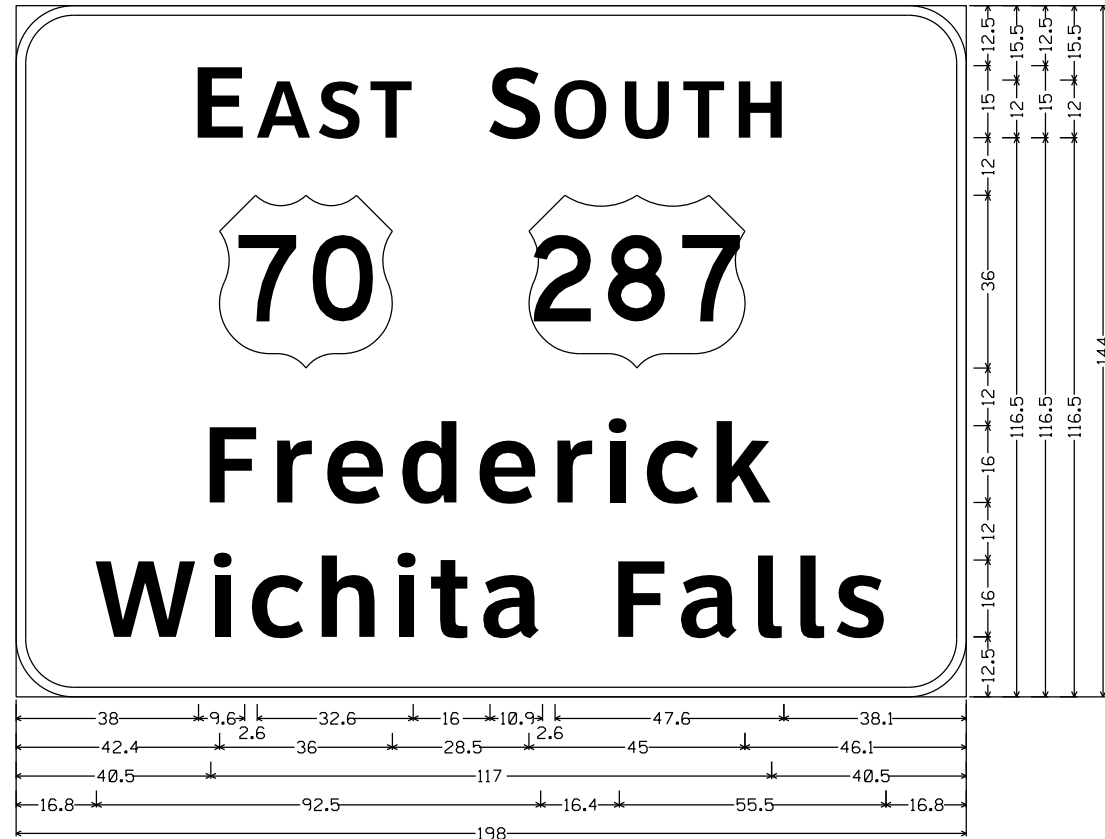
12.0" Radius, 2.0" Border, White on Green;
 State Highway 925 M1-6F3; "E AST", ClearviewHwy-5-W-R;
 "EXIT 5⁹/₆₄ MILE", ClearviewHwy-5-W-R;

SIGN #90: US287 NB
 FM 925 EXIT 1/2 MILE



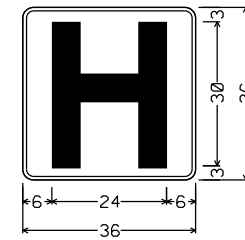
IH-44, ETC.
 LARGE GROUND
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 DETAILS

CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	51	

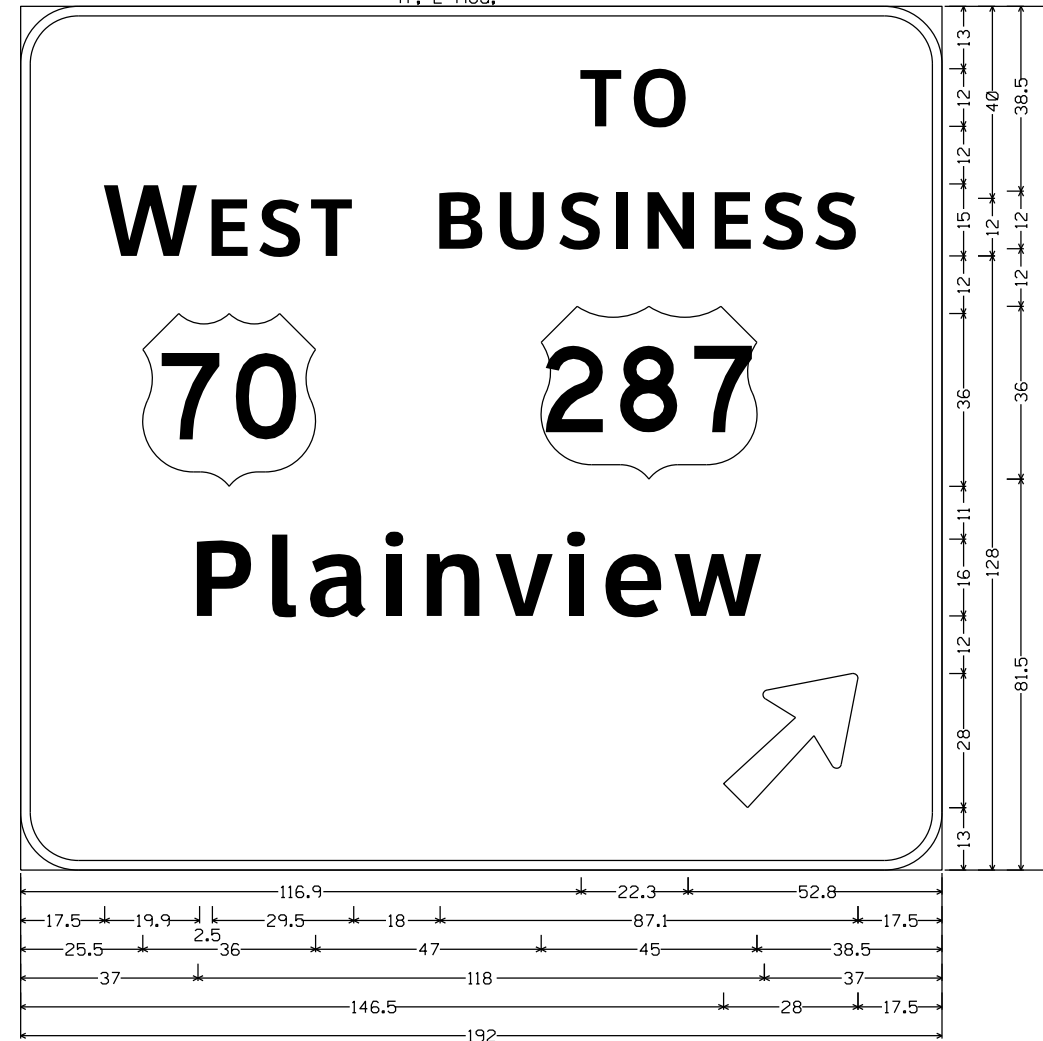


12.0" Radius, 2.0" Border, White on Green;
 *E AST, ClearviewHwy-5-W-R; US 70 MI-4; *S OUTH, ClearviewHwy-5-W-R; US 287 MI-4;
 *Frederick, ClearviewHwy-5-W-R; *Wichita Falls, ClearviewHwy-5-W-R;

SIGN #7A: US287 SB
 @ US 70 EXIT

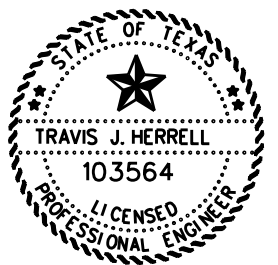


D9-2.36x36;
 2.3" Radius, 0.8" Border, White on Blue;
 *H, E Mod;

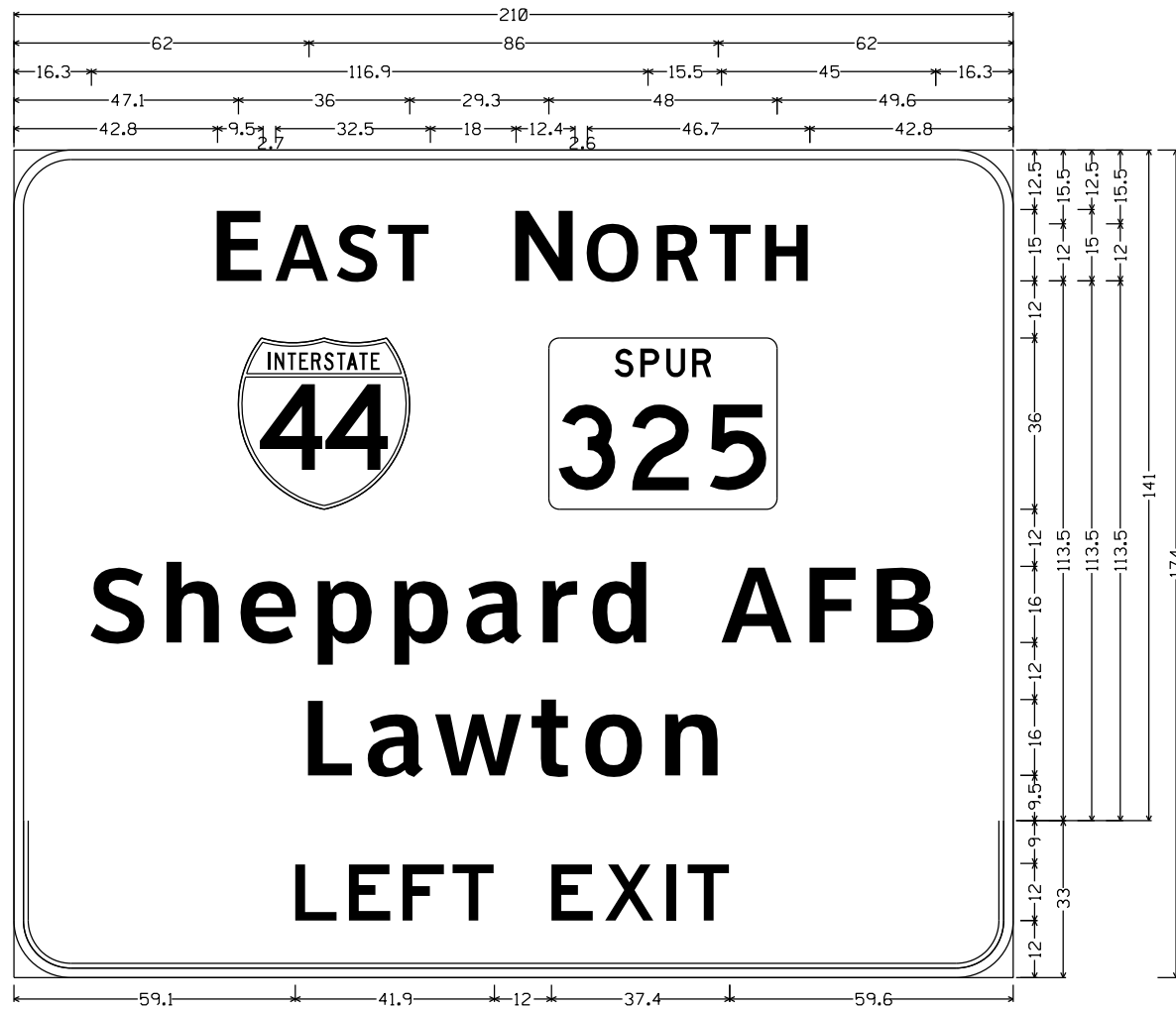


12.0" Radius, 2.0" Border, White on Green;
 * TO, ClearviewHwy-5-W-R; *W EST, ClearviewHwy-5-W-R; US 70 MI-4; *BUSINESS, ClearviewHwy-5-W-R;
 US 287 MI-4; *Plainview, ClearviewHwy-5-W-R; Arrow A-3 - 35.6' 45³⁹/₆₄;

SIGN #7B: US287 SB
 @ US 70 EXIT



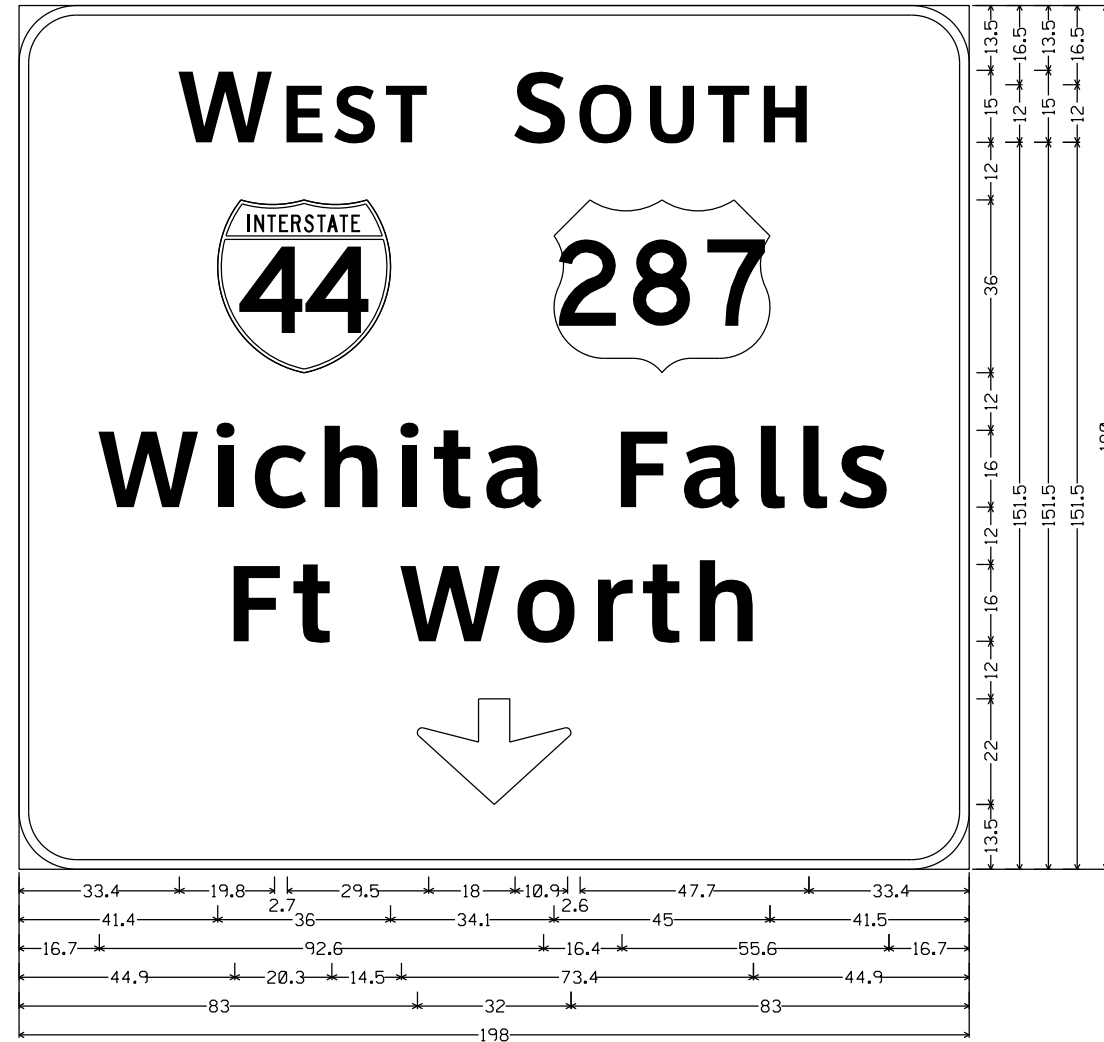
C/S
DWG
CHK
DNE



E11-2aT.VARxVAR;

12.0' Radius, 2.0' Border, White on Green;
 'E AST', ClearviewHwy-5-W-R; Interstate 44 MI-1; 'N ORTH', ClearviewHwy-5-W-R; State Highway 325 MI-6S3;
 'Sheppard AFB', ClearviewHwy-5-W-R; 'Lawton', ClearviewHwy-5-W-R;
 1.0' Inner border Green, 12.0' Radius, 2.0' Outer border, White on Yellow;
 'LEFT EXIT' Black, E;

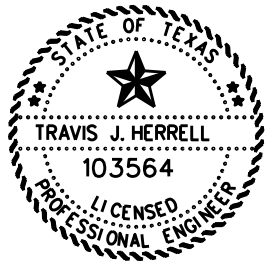
SIGN #21A: US287 SB
 @ SL 11 EXIT



E1-2.VARx120;

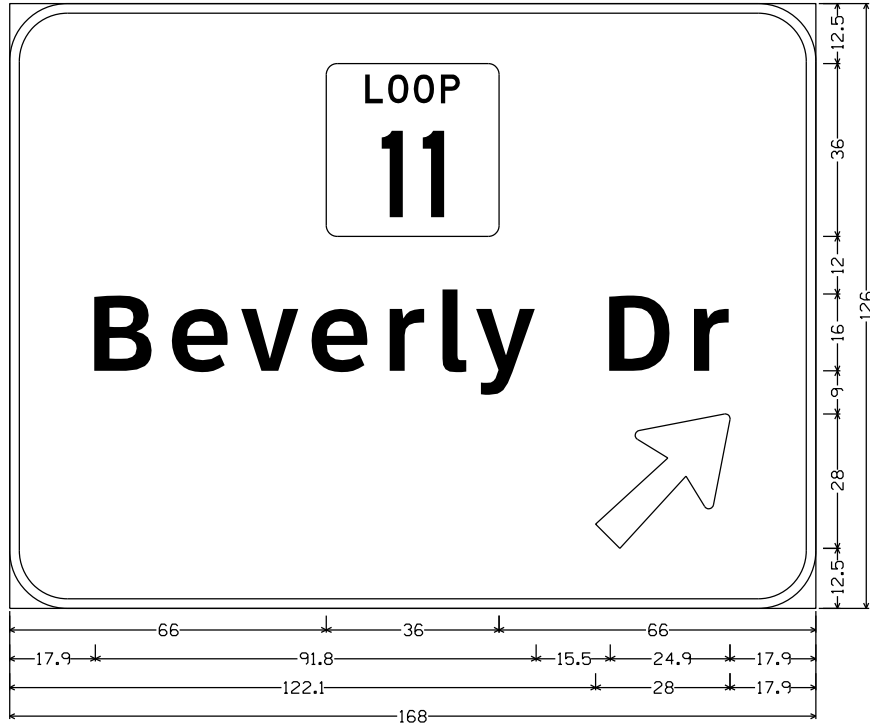
12.0' Radius, 2.0' Border, White on Green;
 'W EST', ClearviewHwy-5-W-R; Interstate 44 MI-1; 'S OUTH', ClearviewHwy-5-W-R; US 287 MI-4;
 'Wichita Falls', ClearviewHwy-5-W-R; 'Ft Worth', ClearviewHwy-5-W-R; Down Arrow 22 - 22.0' 270³³/₆₄;

SIGN #21B: US287 SB
 @ SL 11 EXIT



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IH-44, ETC.			
LARGE OVERHEAD SIGN DETAILS			
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CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	53	



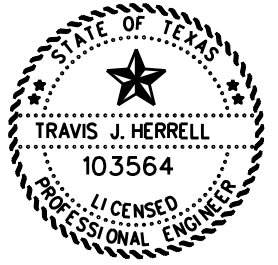
12.0' Radius, 2.0' Border, White on Green;
 State Highway 11 MI-6L2; 'Beverly Dr', ClearviewHwy-5-W-R; Arrow A-3 - 35.6' 45³³/₆₄;

SIGN #21C: US287 SB
 @ SL 11 EXIT



E11-1aT_VARxVAR;
 12.0' Radius, 2.0' Border, White on Green;
 'E AST', ClearviewHwy-5-W-R; Interstate 44 MI-1; 'N ORTH', ClearviewHwy-5-W-R; State Highway 325 MI-6S3; 'Sheppard AFB', ClearviewHwy-5-W-R; 'Lawton', ClearviewHwy-5-W-R;
 Arrow A-3 - 35.6' 135³/₆₄;
 1.0' Inner border Green, 12.0' Radius, 2.0' Outer border, White on Yellow;
 'LEFT' Black, 'EXIT' Black, 'E'

SIGN #22A: US287 SB
 @ SS 325 EXIT

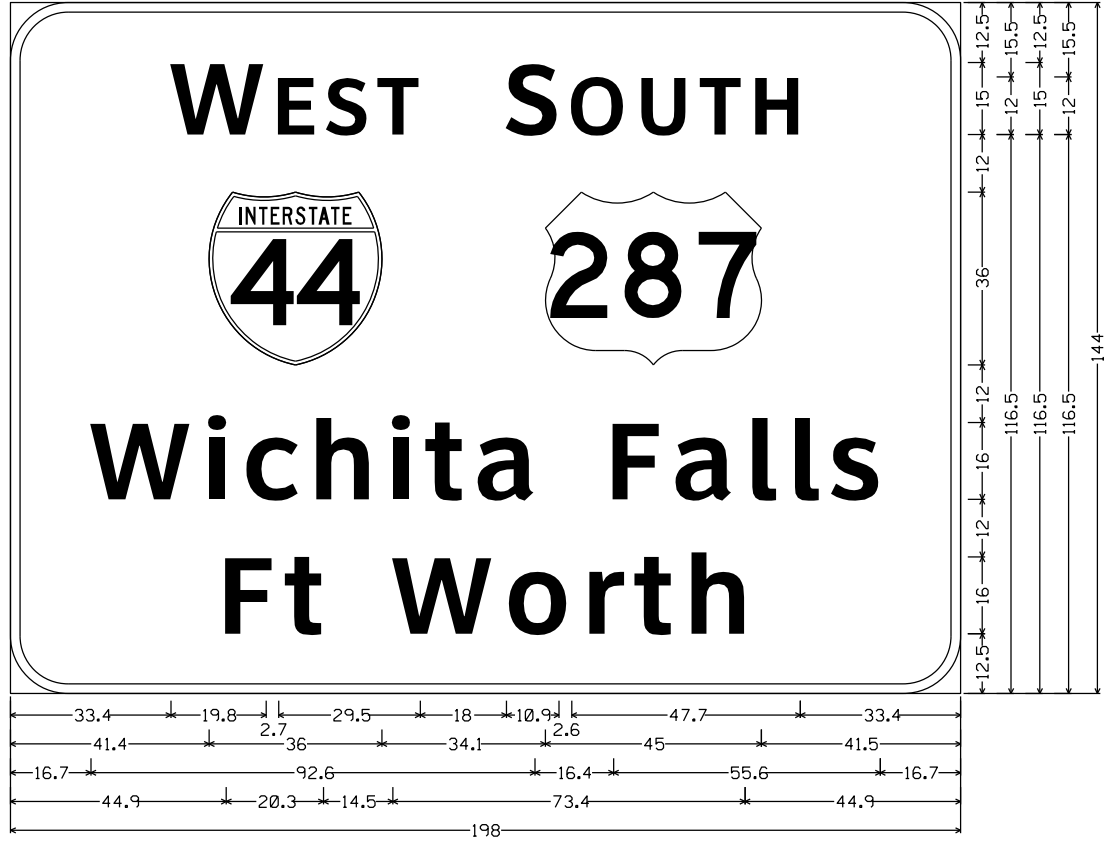


Texas Department of Transportation

IH-44, ETC.
 LARGE OVERHEAD
 SIGN DETAILS

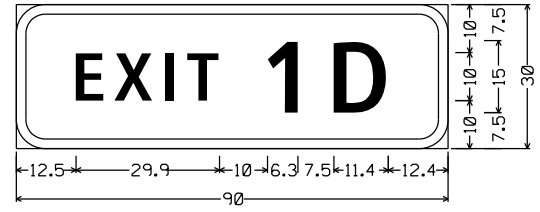
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CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	54	

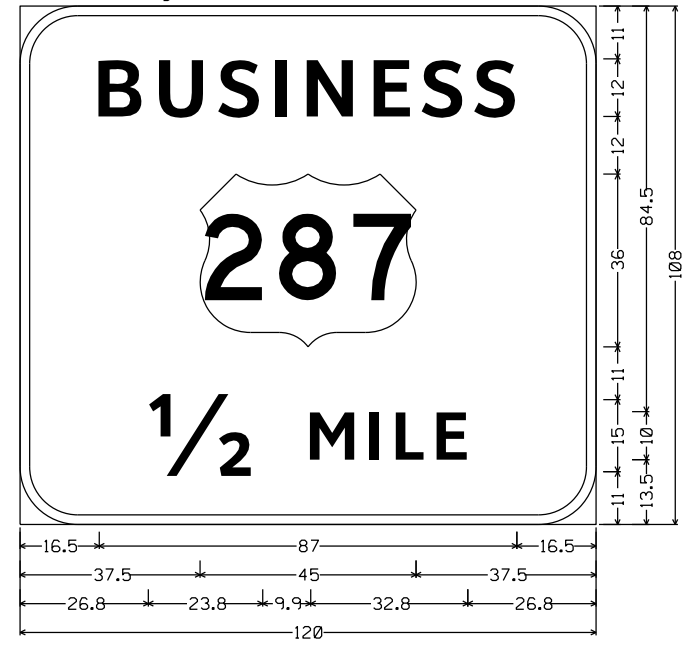


E1-2-VARx120;
12.0" Radius, 2.0" Border, White on Green;
"W EST", ClearviewHwy-5-W-R; Interstate 44 MI-1; "S OUTH", ClearviewHwy-5-W-R; US 287 MI-4;
"Wichita Falls", ClearviewHwy-5-W-R; "Ft Worth", ClearviewHwy-5-W-R;

SIGN #22B: US287 SB
@ SS 325 EXIT

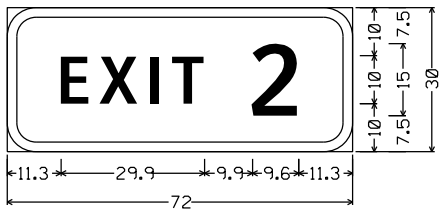


E1-5P(1).84x30;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", ClearviewHwy-4-W; "1", ClearviewHwy-4-W;
"D", ClearviewHwy-4-W;

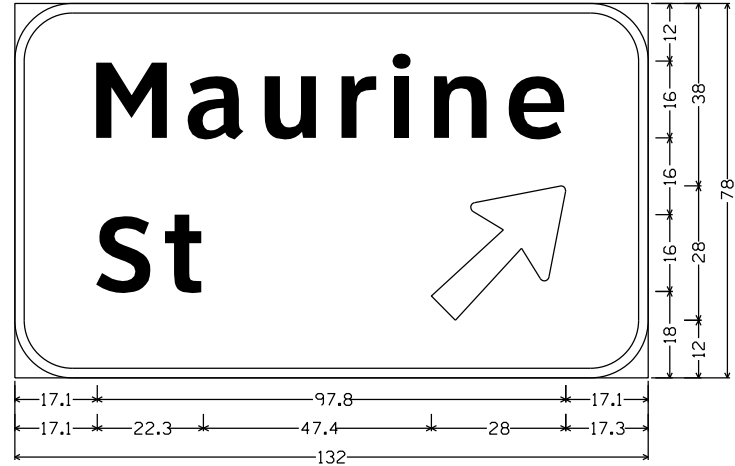


12.0" Radius, 2.0" Border, White on Green;
"BUSINESS", ClearviewHwy-5-W-R; US 287 MI-4;
"1/2", ClearviewHwy-5-W-R; "MILE", ClearviewHwy-5-W-R;

SIGN #25A: US287 SB
@ MAURINE ST EXIT

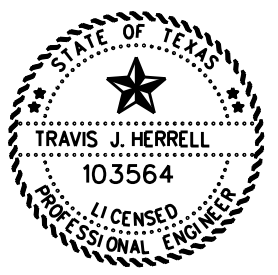


E1-5P(1).84x30;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", ClearviewHwy-4-W;
"2", ClearviewHwy-4-W;



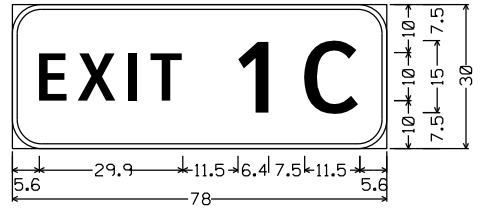
12.0" Radius, 2.0" Border, White on Green;
"Maurine", ClearviewHwy-5-W-R; "St", ClearviewHwy-5-W-R;
Arrow A-3 - 35.6" 45³/₄;

SIGN #25B: US287 SB
@ MAURINE ST EXIT

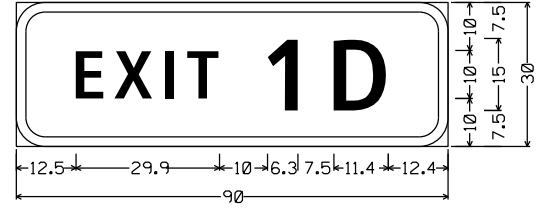


IH-44, ETC.
LARGE OVERHEAD
SIGN DETAILS

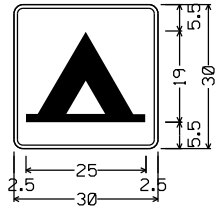
© TxDOT 2024		SHEET 4 OF 24	
CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	55	



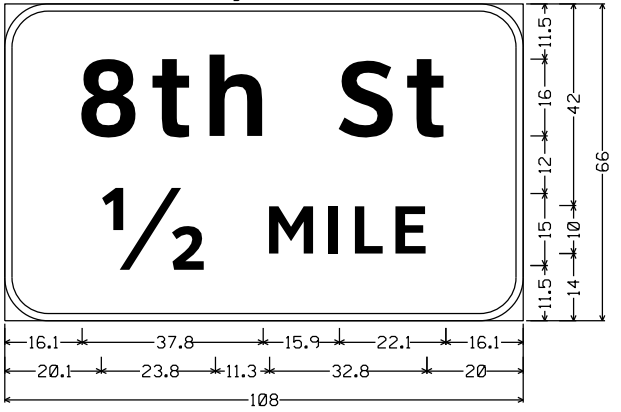
E1-5P(1).84x30;
6.0" Radius, 1.0" Border, White on Green;
"EXIT 1", ClearviewHwy-4-W;
"C", ClearviewHwy-4-W;



E1-5P(1).84x30;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", ClearviewHwy-4-W; "1", ClearviewHwy-4-W;
"D", ClearviewHwy-4-W;

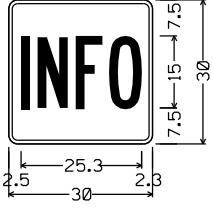


D9-3.30x30;
1.9" Radius, 0.8" Border, White on Blue;
Symbol RM010;

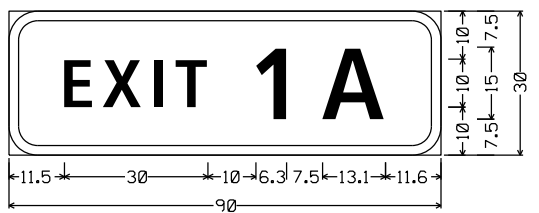


9.0" Radius, 1.5" Border, White on Green;
"8th St", ClearviewHwy-5-W-R; "1/2 MILE", ClearviewHwy-5-W-R;

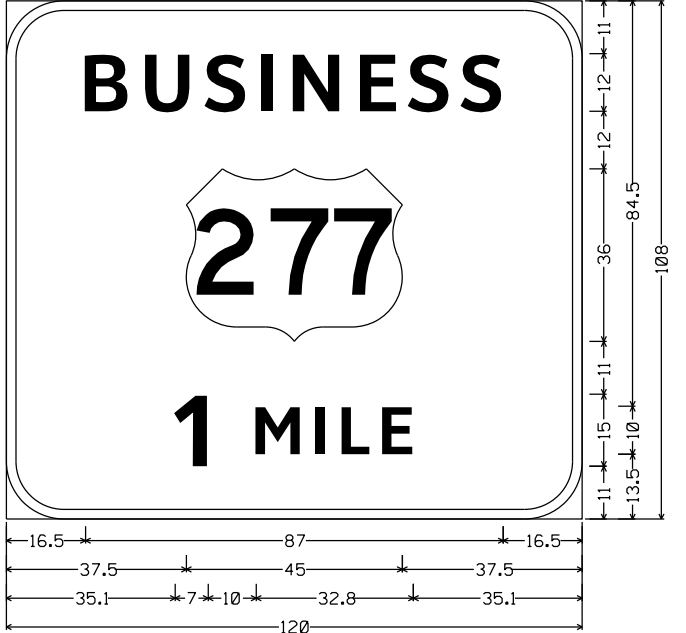
SIGN #26A: US287 SB
@ BU 287 EXIT



D9-10.30x30;
1.9" Radius, 0.8" Border, White on Blue;
"INFO", B 58% spacing;

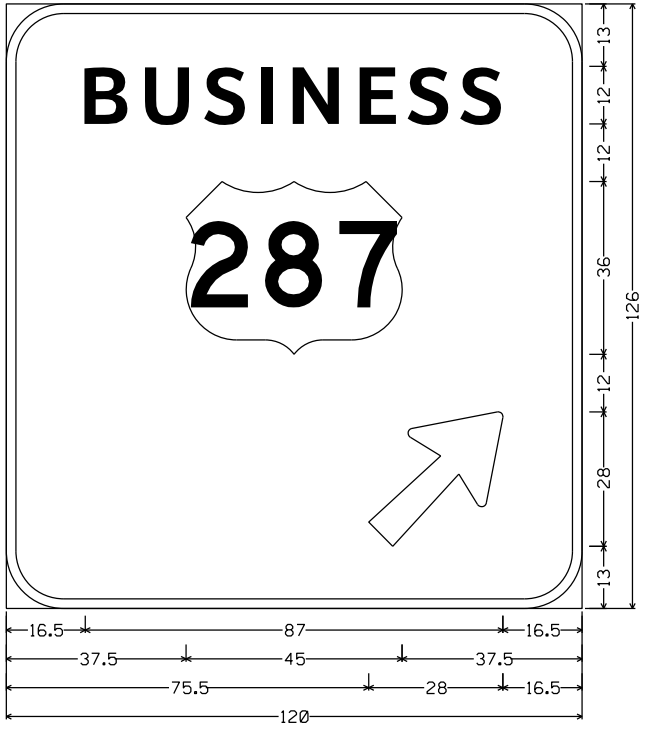


E1-5P(1).84x30;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", ClearviewHwy-4-W; "1", ClearviewHwy-4-W;
"A", ClearviewHwy-4-W;



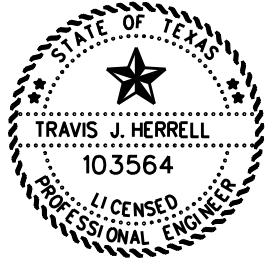
12.0" Radius, 2.0" Border, White on Green;
"BUSINESS", ClearviewHwy-5-W-R; US 277 MI-4;
"1", ClearviewHwy-5-W-R; "MILE", ClearviewHwy-5-W-R;

SIGN #28A: US287 SB
@ 8TH ST EXIT



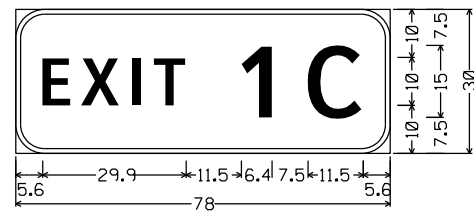
12.0" Radius, 2.0" Border, White on Green;
"BUSINESS", ClearviewHwy-5-W-R; US 287 MI-4;
Arrow A-3 - 35.6" 45³³/₆₄;

SIGN #26B: US287 SB
@ BU 287 EXIT

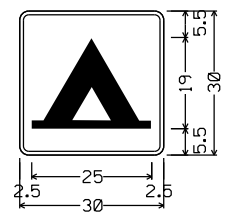


IH-44, ETC.
LARGE OVERHEAD
SIGN DETAILS

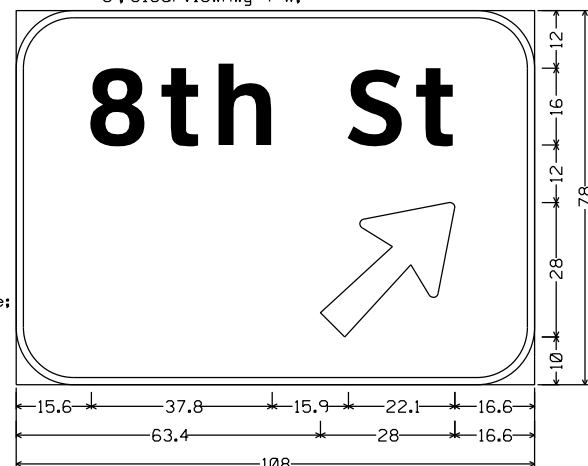
© TxDOT 2024		SHEET 5 OF 24	
CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	56	



E1-5P(1).84x30;
 6.0" Radius, 1.0" Border, White on Green;
 *EXIT 1', ClearviewHwy-4-W;
 *C', ClearviewHwy-4-W;

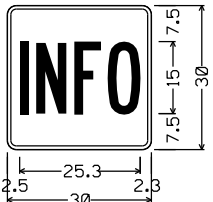


D9-3.30x30;
 1.9" Radius, 0.8" Border, White on Blue;
 Symbol RM010;

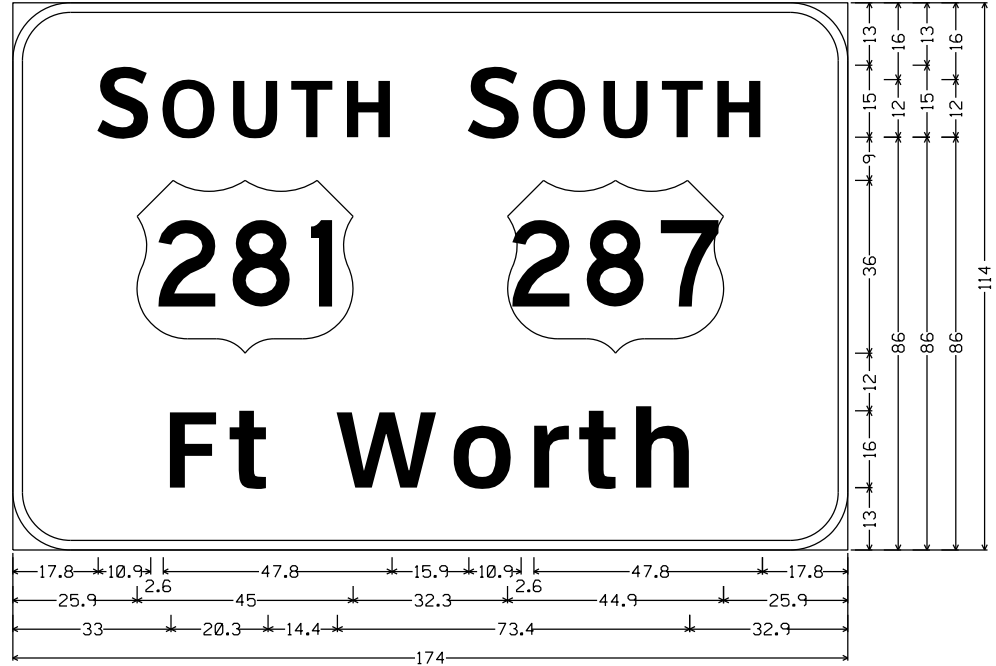


12.0" Radius, 1.5" Border, White on Green;
 *8th St', ClearviewHwy-5-W-R; Arrow A-3 - 35.6" 45³³/₆₄;

SIGN #28B: US287 SB
 @ 8TH ST EXIT

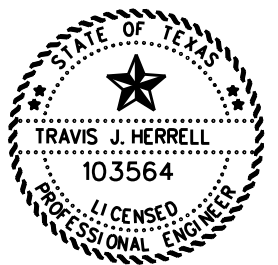


D9-10.30x30;
 1.9" Radius, 0.8" Border, White on Blue;
 *INFO', B 58% spacing;



12.0" Radius, 2.0" Border, White on Green;
 *S OUTH', ClearviewHwy-5-W-R; US 281 MI-4; *S OUTH', ClearviewHwy-5-W-R; US 287 MI-4;
 *Ft Worth', ClearviewHwy-5-W-R;

SIGN #29A: US287 SB
 @ BU 277A EXIT

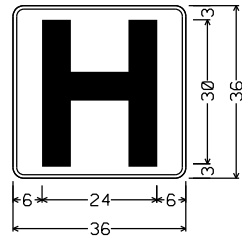


Texas Department of Transportation

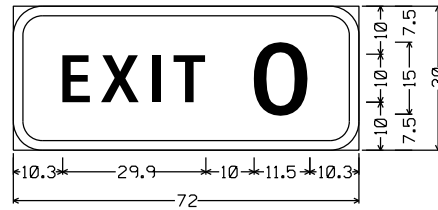
IH-44, ETC.
 LARGE OVERHEAD
 SIGN DETAILS

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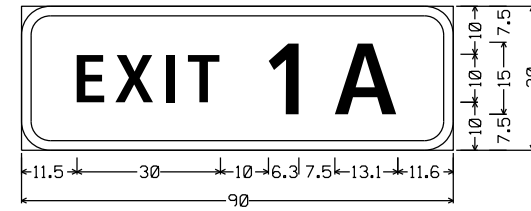
CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	57	



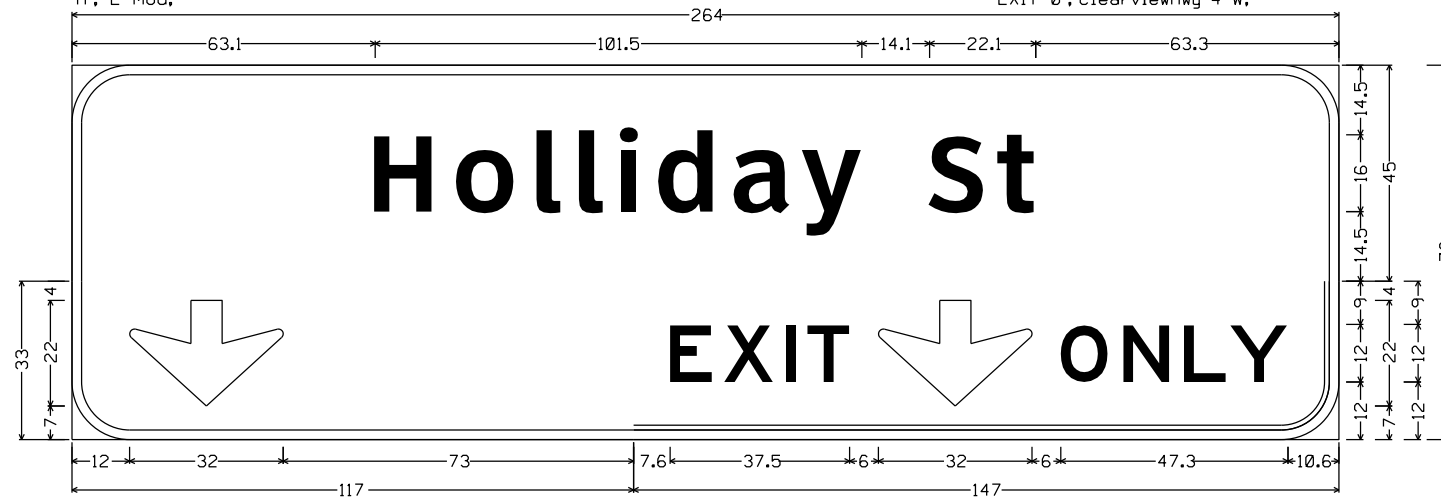
D9-2.36x36;
2.3" Radius, 0.8" Border, White on Blue;
"H", E Mod;



E1-5P-72x30;
6.0" Radius, 2.0" Border, White on Green;
"EXIT 0", ClearviewHwy-4-W;

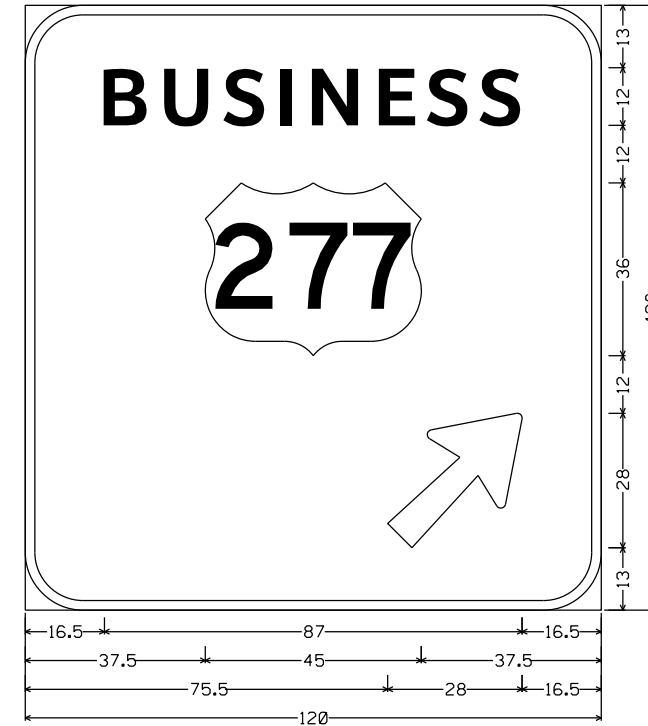


E1-5P(1).84x30;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", ClearviewHwy-4-W; "1", ClearviewHwy-4-W;
"A", ClearviewHwy-4-W;



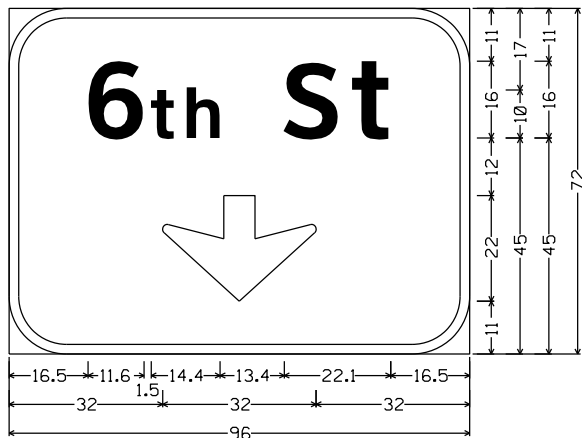
E11-1dT_VARxVAR;
12.0" Radius, 2.0" Border, White on Green;
"Holliday St", ClearviewHwy-5-W-R;
12.0" Radius, 2.0" Border, White on Green;
Down Arrow 22 - 22.0" 270³³/₆₄;
1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on Yellow;
"EXIT" Black, E; Down Arrow 22 - 22.0" 270³³/₆₄ Black; "ONLY" Black, E;

SIGN #29B: US287 SB
@ BU 277A EXIT



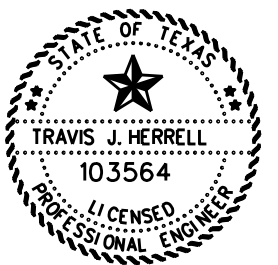
12.0" Radius, 2.0" Border, White on Green;
"BUSINESS", ClearviewHwy-5-W-R; US 277 M1-4;
Arrow A-3 - 35.6" 45³³/₆₄;

SIGN #29C: US287 SB
@ BU 277A EXIT



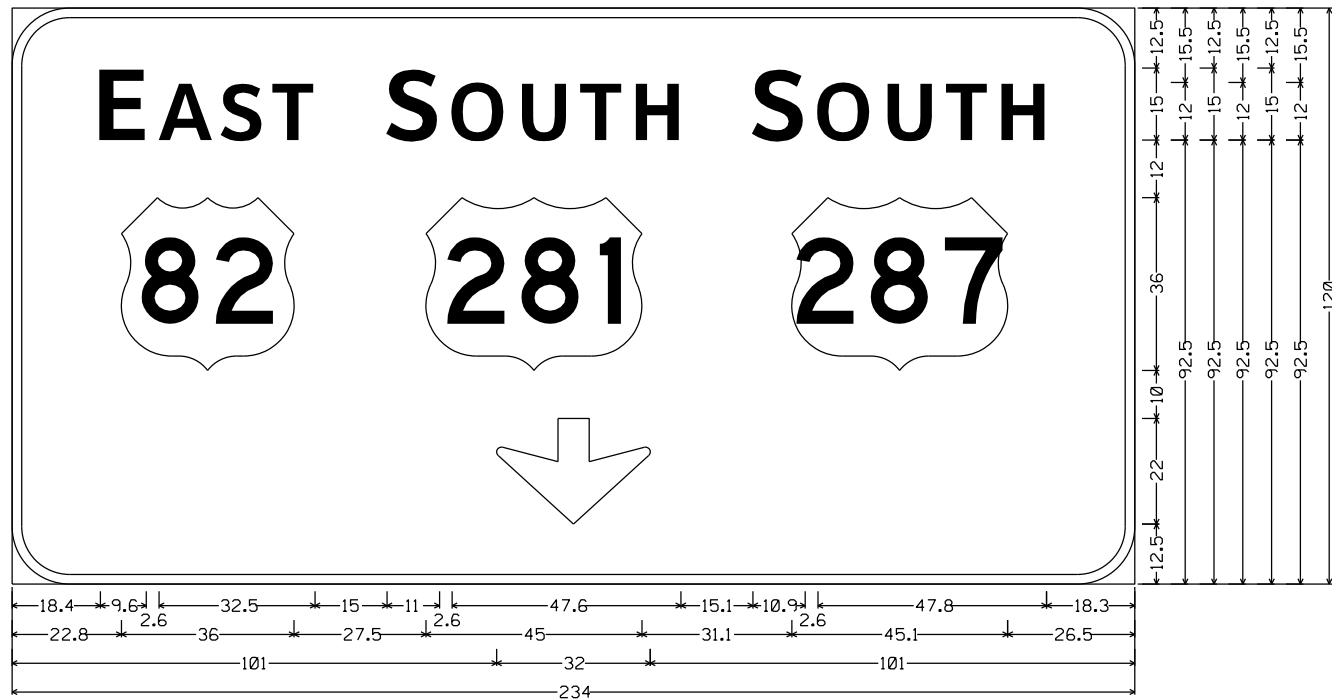
12.0" Radius, 2.0" Border, White on Green;
"6 th St", ClearviewHwy-5-W-R;
Down Arrow 22 - 22.0" 270³³/₆₄;

SIGN #31: US287 SB
@ BU 277A



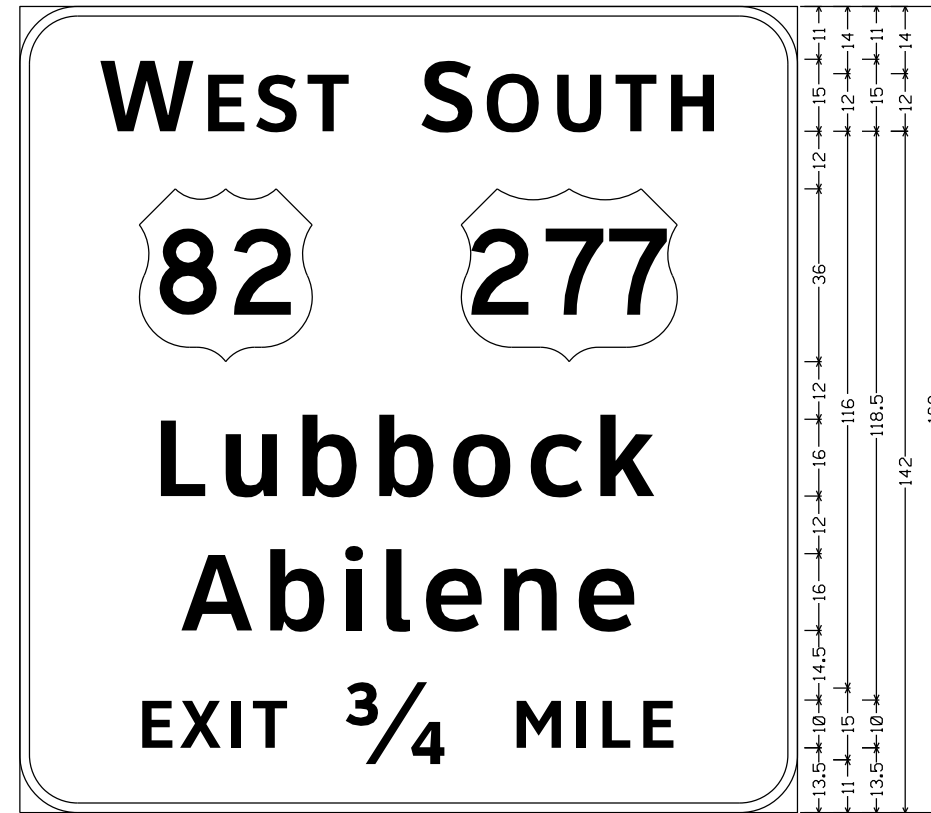
IH-44, ETC.
LARGE OVERHEAD
SIGN DETAILS

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CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	58	



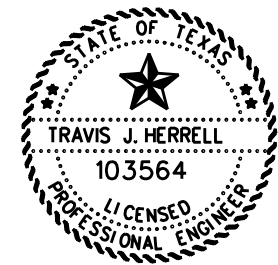
12.0" Radius, 2.0" Border, White on Green;
 E AST, ClearviewHwy-5-W-R; US 82 MI-4; *S OUTH*, ClearviewHwy-5-W-R; US 281 MI-4; *S OUTH*, ClearviewHwy-5-W-R; US 287 MI-4;
 Down Arrow 22 - 22.0" 270³³/₆₄;

SIGN #32A: US287 SB
 @ HOLLIDAY ST EXIT



12.0" Radius, 2.0" Border, White on Green;
 W EST, ClearviewHwy-5-W-R; US 82 MI-4; *S OUTH*, ClearviewHwy-5-W-R; US 277 MI-4;
 Lubbock, ClearviewHwy-5-W-R; *Abilene*, ClearviewHwy-5-W-R; *EXIT*, ClearviewHwy-5-W-R;
 *3/4", ClearviewHwy-5-W-R; *MILE*, ClearviewHwy-5-W-R;

SIGN #32B: US287 SB
 @ HOLLIDAY ST EXIT

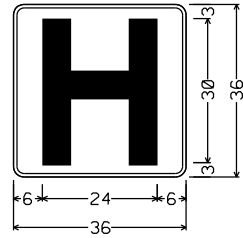


Texas Department of Transportation

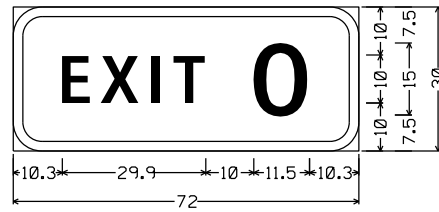
IH-44, ETC.
 LARGE OVERHEAD
 SIGN DETAILS

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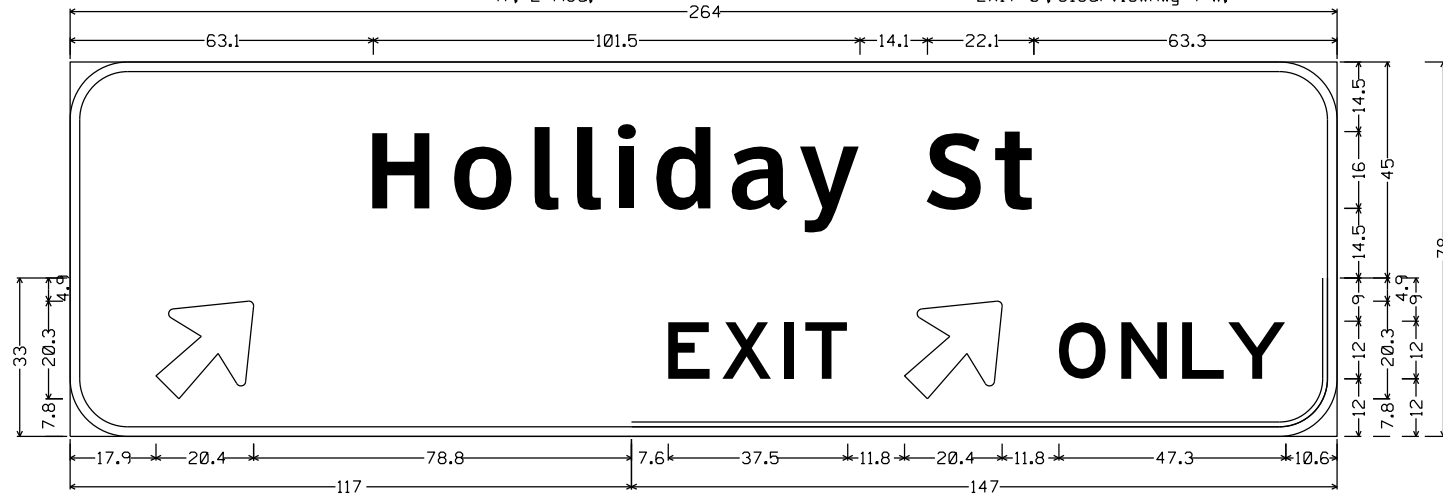
CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	59	



D9-2.36x36;
2.3" Radius, 0.8" Border, White on Blue;
"H", E Mod;

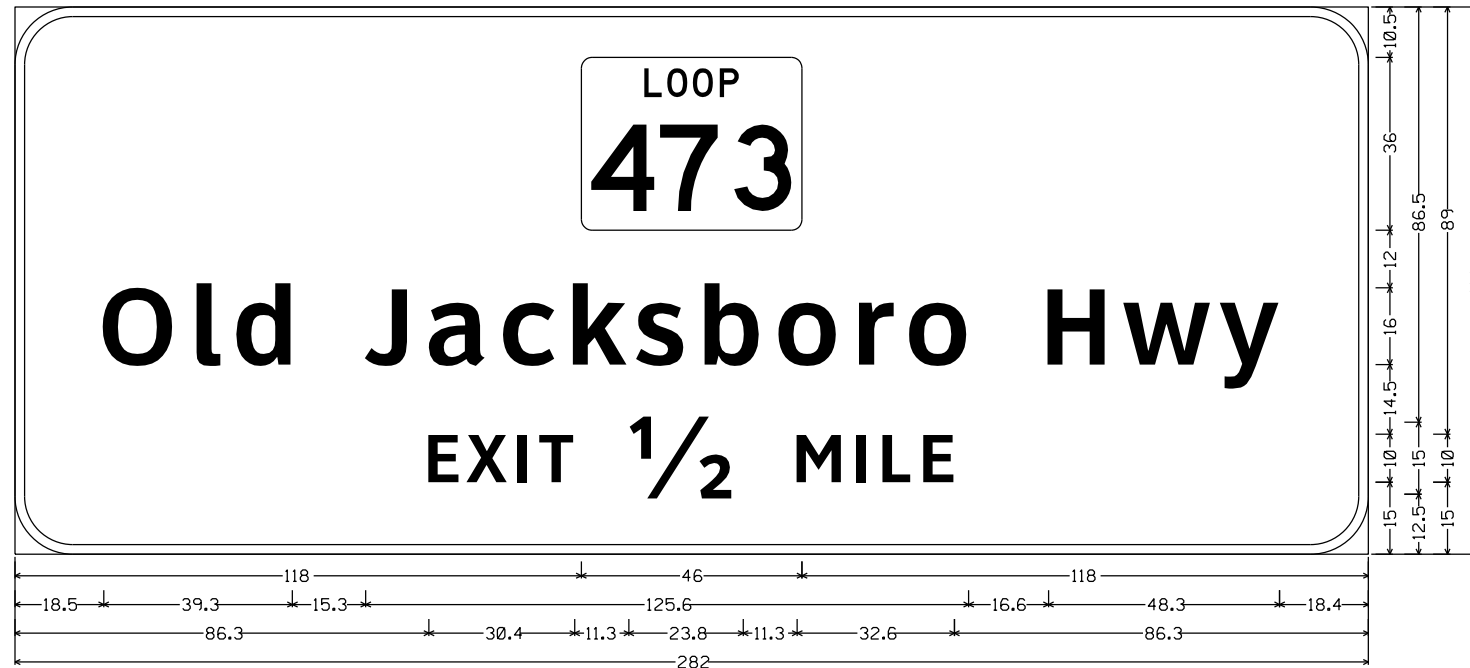


E1-5P_72x30;
6.0" Radius, 2.0" Border, White on Green;
"EXIT 0", ClearviewHwy-4-W;



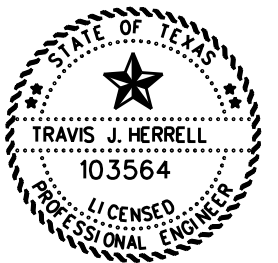
E11-1eT_VARxVAR;
12.0" Radius, 2.0" Border, White on Green;
"Holliday St", ClearviewHwy-5-W-R;
12.0" Radius, 2.0" Border, White on Green;
Arrow B-3 - 25.0° 45³³/₆₄;
1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on Yellow;
"EXIT" Black, E; Arrow B-3 - 25.0° 45³³/₆₄ Black; "ONLY" Black, E;

SIGN #32C: US287 SB
@ HOLLIDAY ST EXIT



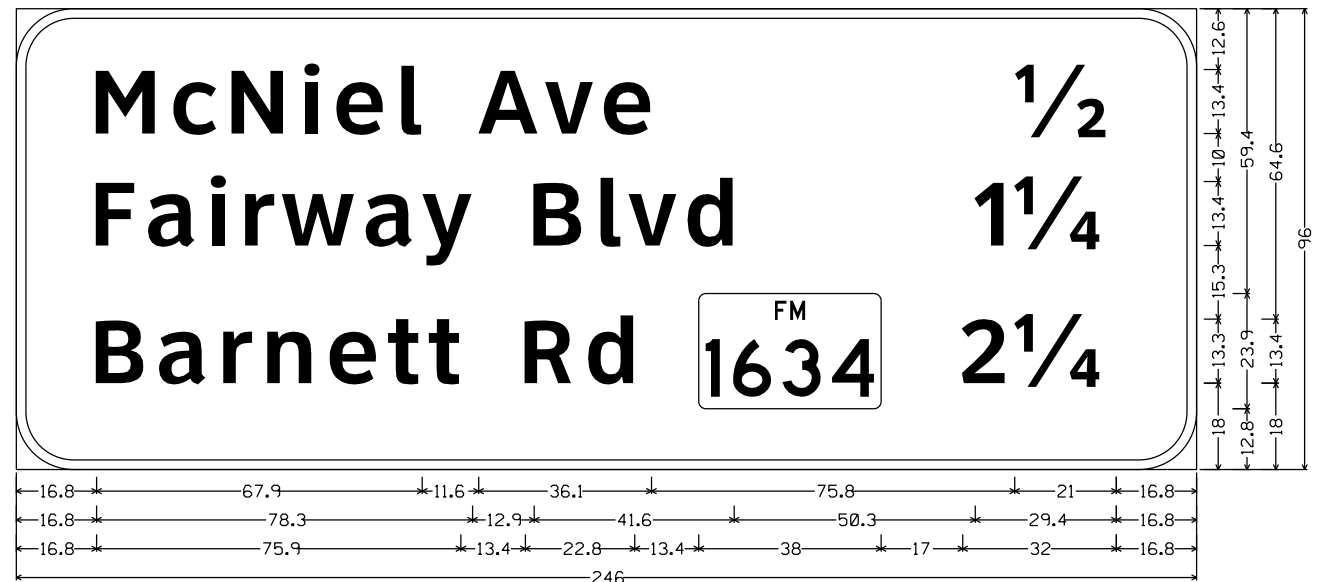
E1-2_VARx120;
12.0" Radius, 2.0" Border, White on Green;
State Highway 473 M1-6L3; "Old Jacksboro Hwy", ClearviewHwy-5-W-R; "EXIT 1/2 MILE", ClearviewHwy-5-W-R;

SIGN #34: US287 SB
SL 473 EXIT 1/2 MILE



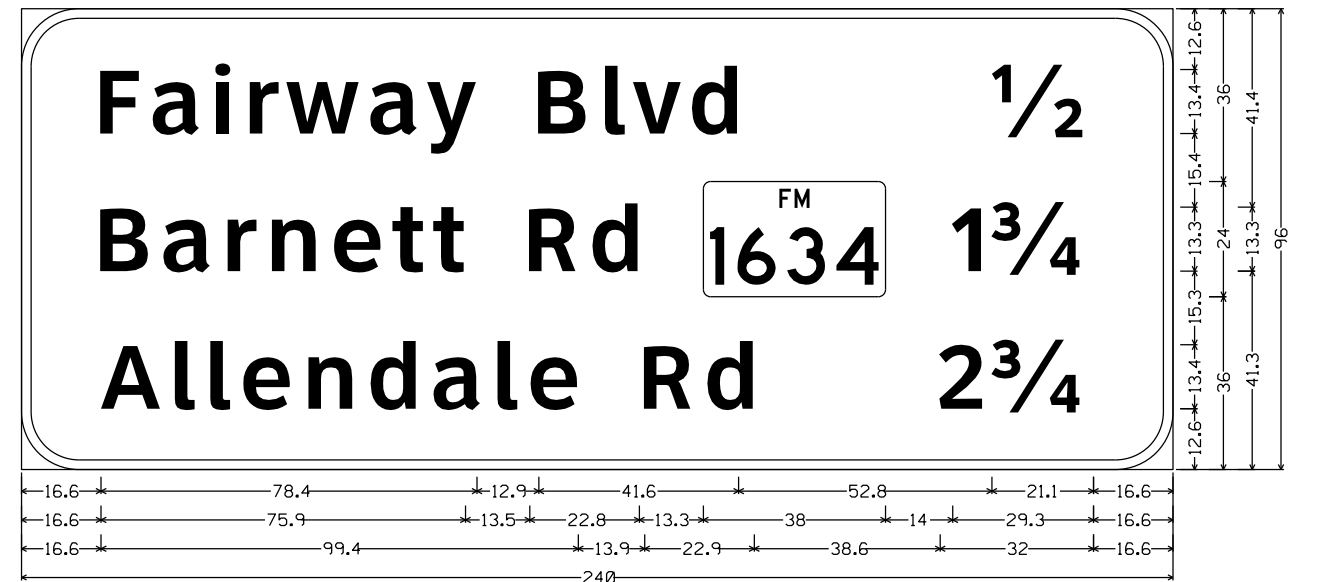
IH-44, ETC.
LARGE OVERHEAD
SIGN DETAILS

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CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	60	



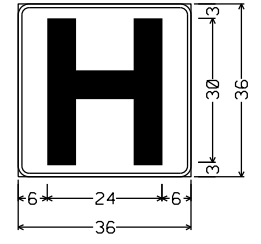
12.0' Radius, 2.0' Border, White on Green;
 'McNiel Ave', ClearviewHwy-5-W-R; '5/64', ClearviewHwy-5-W-R; 'Fairway Blvd', ClearviewHwy-5-W-R; '1 5/64', ClearviewHwy-5-W-R;
 'Barnett Rd', ClearviewHwy-5-W-R; State Highway 1634 MI-6F4; '2 5/64', ClearviewHwy-5-W-R;

SIGN #35: US82 WB
 AFTER LAWRENCE RD EXIT

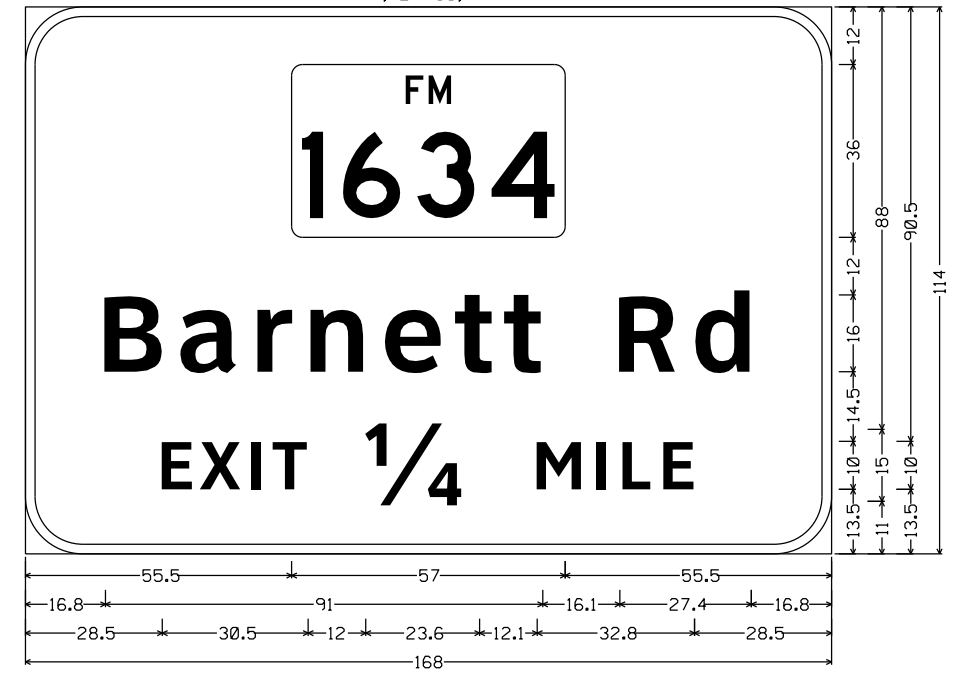


12.0' Radius, 2.0' Border, White on Green;
 'Fairway Blvd', ClearviewHwy-5-W-R; '5/64', ClearviewHwy-5-W-R; 'Barnett Rd', ClearviewHwy-5-W-R; State Highway 1634 MI-6F4;
 '1 6/64', ClearviewHwy-5-W-R; 'Allendale Rd', ClearviewHwy-5-W-R; '2 6/64', ClearviewHwy-5-W-R;

SIGN #36: US82 WB
 @ BRIDGE OVER MCNEIL AVE

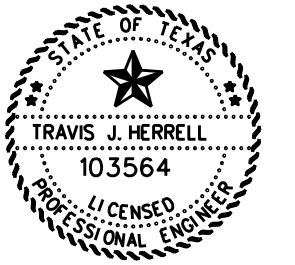


2.3' Radius, 0.8' Border, White on Blue;
 'H', E Mod;



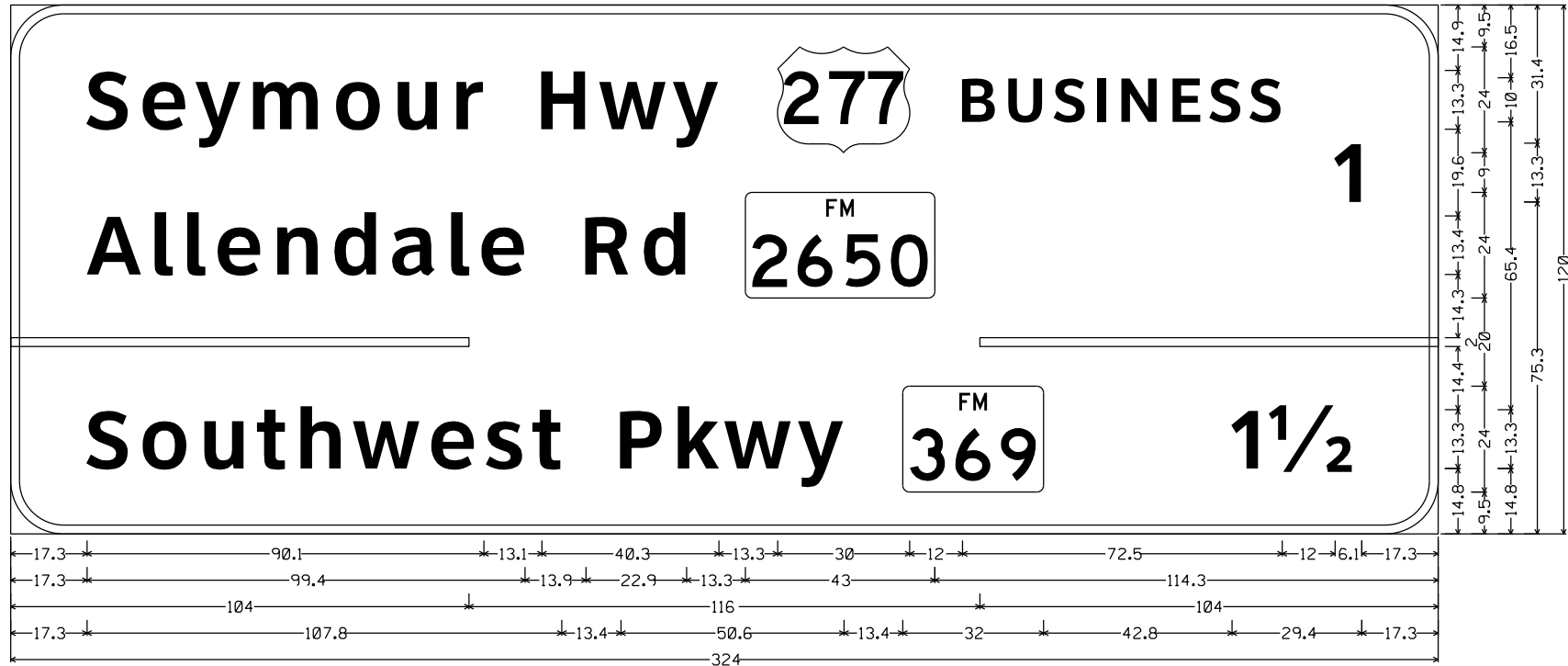
12.0' Radius, 2.0' Border, White on Green;
 State Highway 1634 MI-6F4; 'Barnett Rd', ClearviewHwy-5-W-R; 'EXIT', ClearviewHwy-5-W-R;
 '5/64', ClearviewHwy-5-W-R; 'MILE', ClearviewHwy-5-W-R;

SIGN #37: US82 WB
 @ BRIDGE OVER RAILROAD TRACK



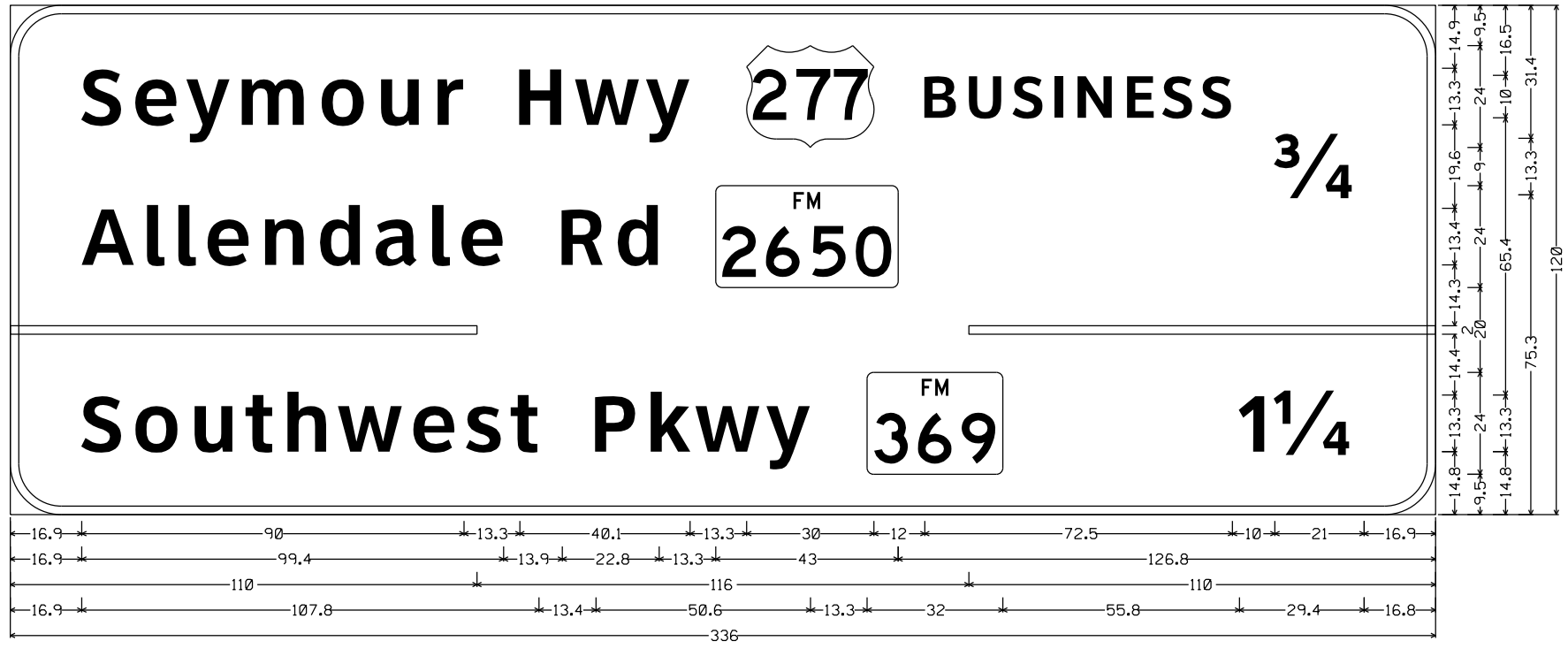
IH-44, ETC.
 LARGE OVERHEAD
 SIGN DETAILS

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CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	61	



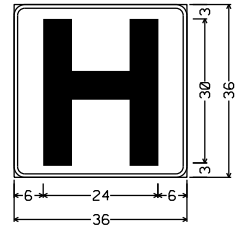
12.0" Radius, 2.0" Border, White on Green;
 Seymour Hwy, ClearviewHwy-5-W-R; US 277 M1-4; *BUSINESS*, ClearviewHwy-5-W-R; *Allendale Rd*, ClearviewHwy-5-W-R; State Highway 2650 M1-6F4; *1*, ClearviewHwy-5-W-R;
 Southwest Pkwy, ClearviewHwy-5-W-R; State Highway 369 M1-6F3; *1 1/2*, ClearviewHwy-5-W-R;

SIGN #38A: US82 WB
 @ BARNETT RD EXIT

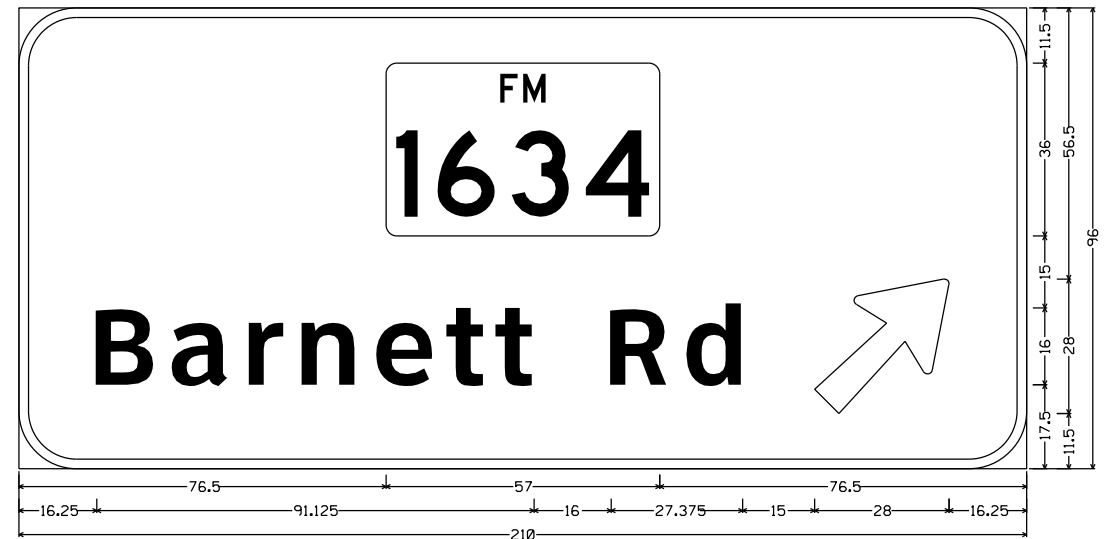


12.0" Radius, 2.0" Border, White on Green;
 Seymour Hwy, ClearviewHwy-5-W-R; US 277 M1-4; *BUSINESS*, ClearviewHwy-5-W-R; *Allendale Rd*, ClearviewHwy-5-W-R; State Highway 2650 M1-6F4; *6/64", ClearviewHwy-5-W-R;
 Southwest Pkwy, ClearviewHwy-5-W-R; State Highway 369 M1-6F3; *1 1/4", ClearviewHwy-5-W-R;

SIGN #39: US82 WB
 @ BRIDGE OVER BARNETT RD



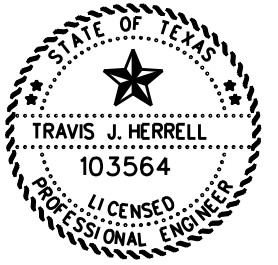
2.250" Radius, 0.750" Border, White on Blue;
 H, E Mod;



12.000" Radius, 2.000" Border, White on Green;
 State Highway 1634 M1-6F4; *Barnett Rd*, ClearviewHwy-5-W-R; Arrow A-3 - 35.625" 45 3/4";

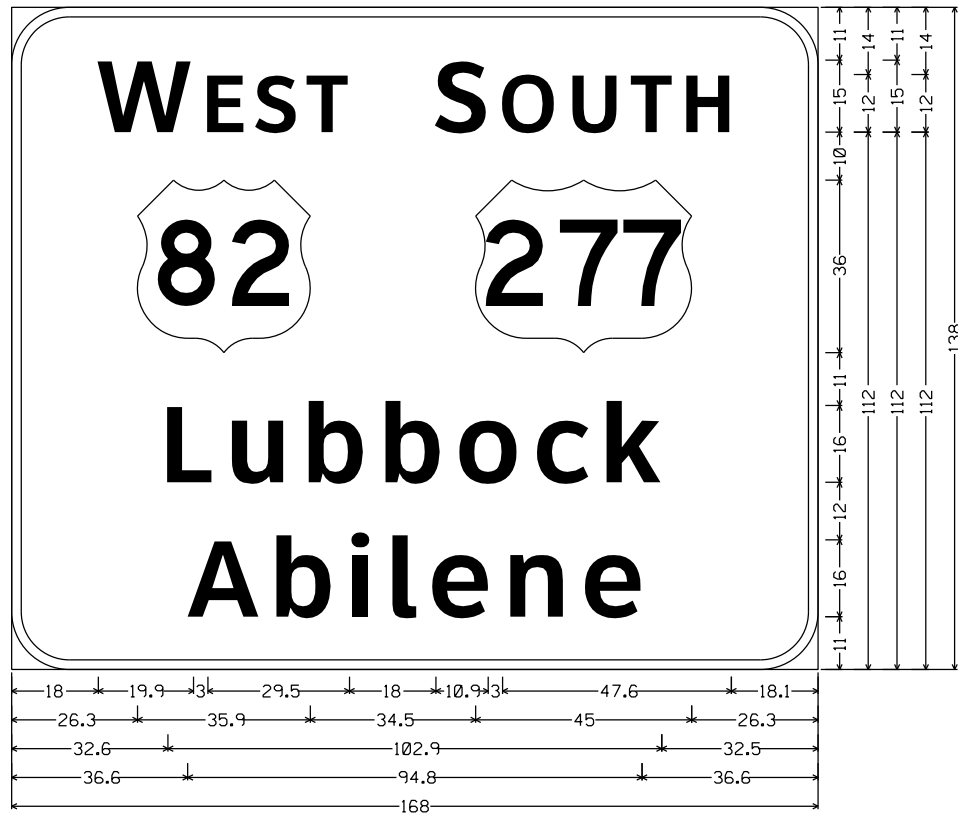
SIGN #38B: US82 WB
 @ BARNETT RD EXIT

SIGN #43B: US 82 EB
 @ BARNETT RD EXIT



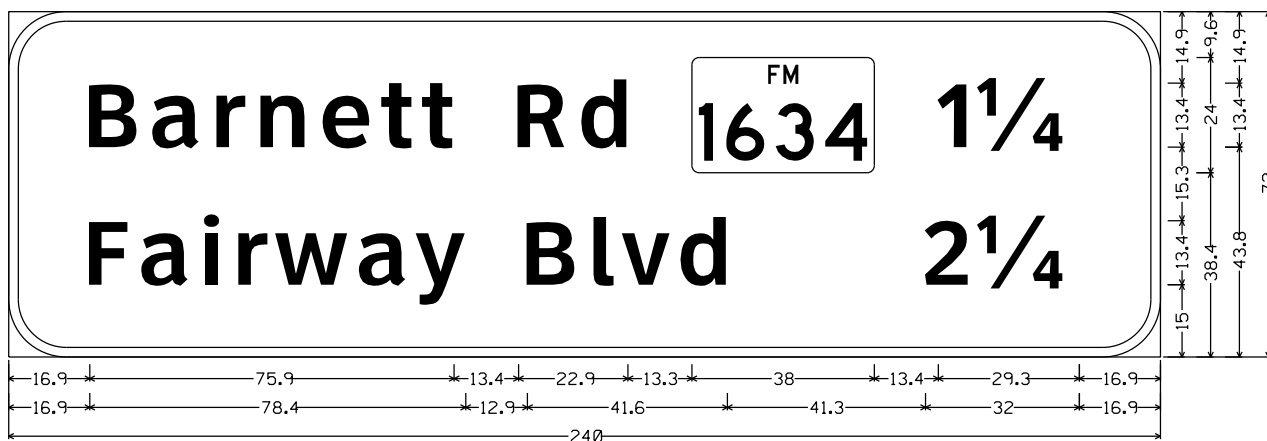
IH-44, ETC.
 LARGE OVERHEAD
 SIGN DETAILS

© TxDOT 2024		SHEET 11 OF 24	
CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	62	



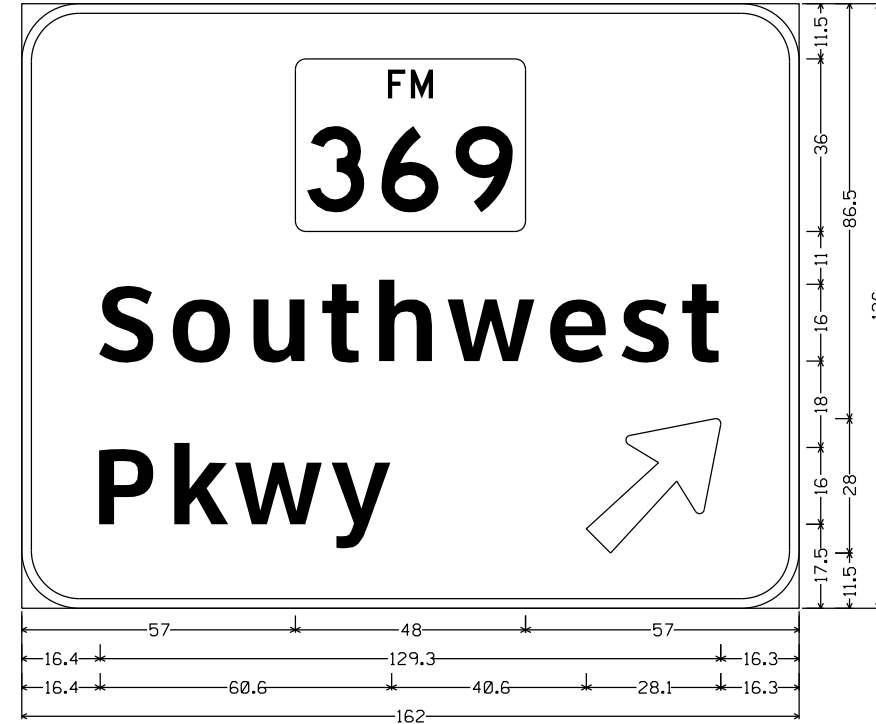
12.0" Radius, 2.0" Border, White on Green;
 "W EST", ClearviewHwy-5-W-R; US 82 M1-4; "S OUTH", ClearviewHwy-5-W-R; US 277 M1-4;
 "Lubbock", ClearviewHwy-5-W-R; "Abilene", ClearviewHwy-5-W-R;

SIGN #40A: US82 WB
 @ FM 369 EXIT



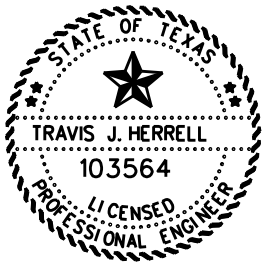
12.0" Radius, 2.0" Border, White on Green;
 "Barnett Rd", ClearviewHwy-5-W-R; State Highway 1634 M1-6F4; "1¹/₄", ClearviewHwy-5-W-R; "Fairway Blvd", ClearviewHwy-5-W-R;
 "2¹/₄", ClearviewHwy-5-W-R;

SIGN #41: US82 EB
 @ BRIDGE OVER FM 369



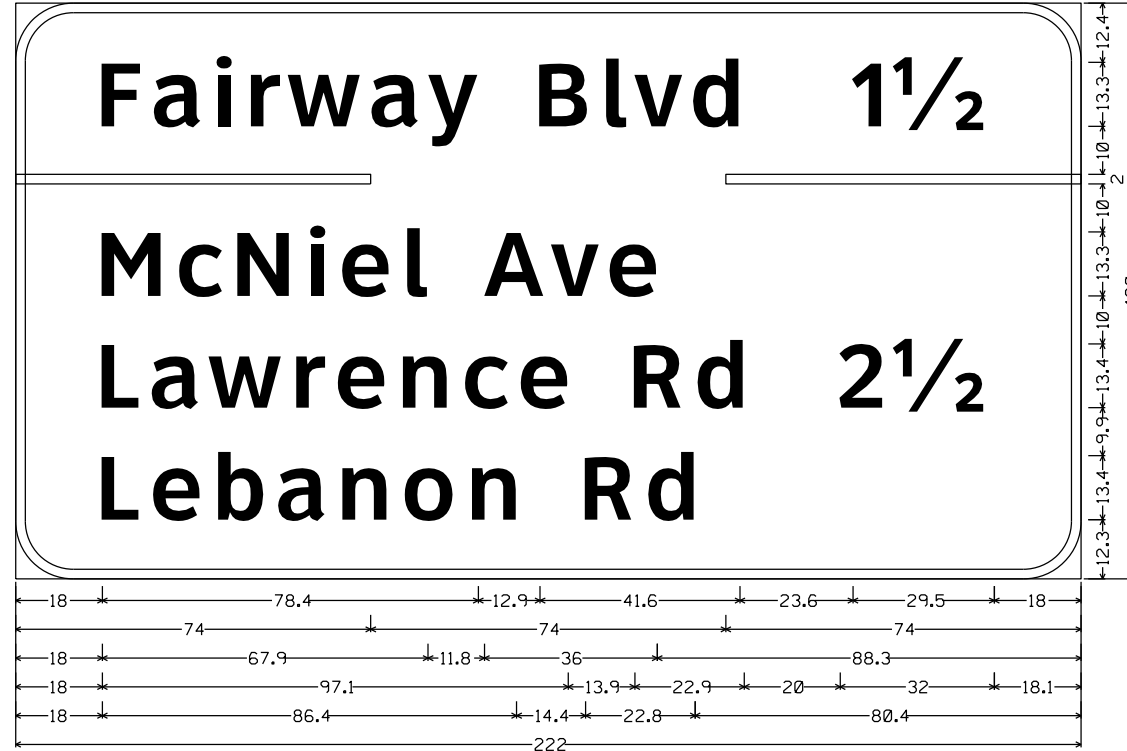
12.0" Radius, 2.0" Border, White on Green;
 State Highway 369 M1-6F3; "Southwest", ClearviewHwy-5-W-R; "Pkwy", ClearviewHwy-5-W-R;
 Arrow A-3 - 35.6° 45³/₄;

SIGN #40B: US82 WB
 @ FM 369 EXIT

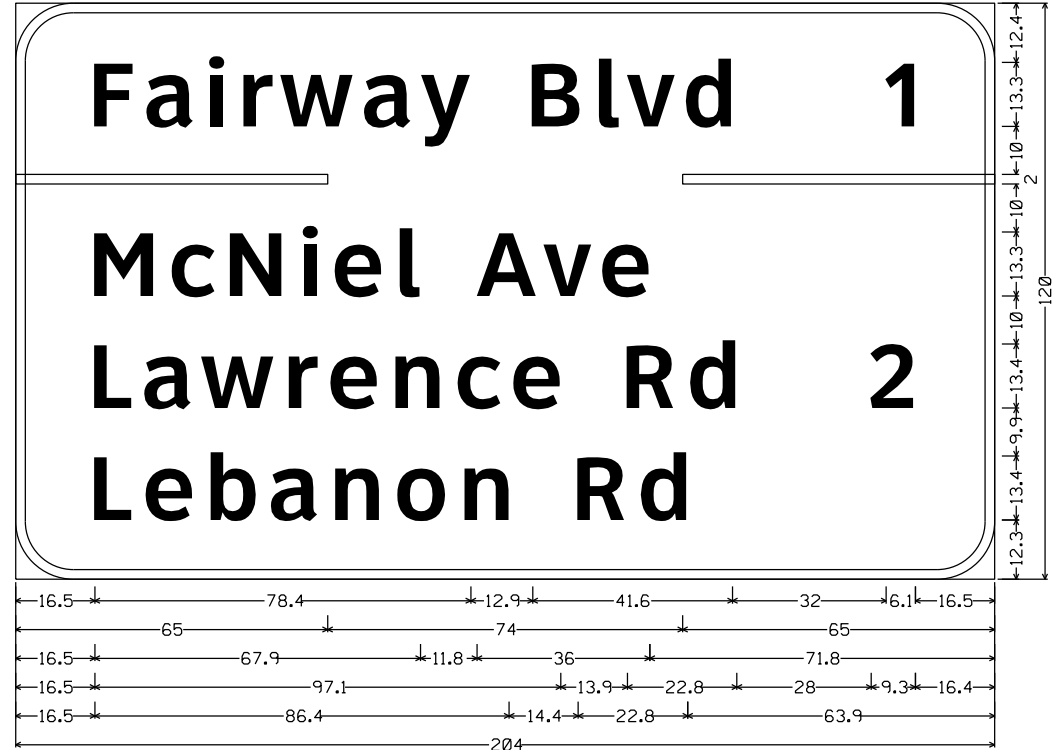


IH-44, ETC.
 LARGE OVERHEAD
 SIGN DETAILS

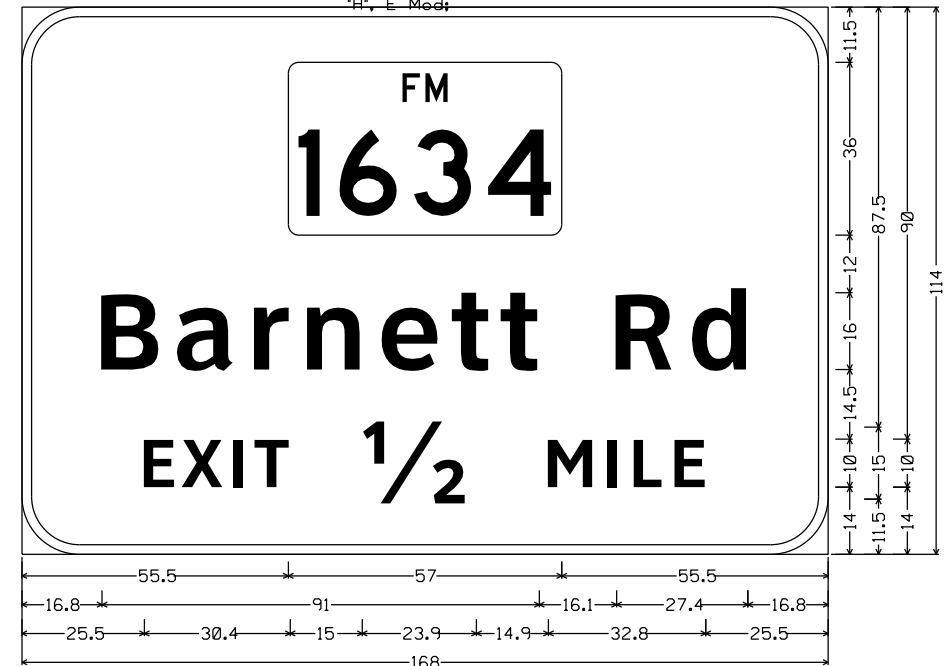
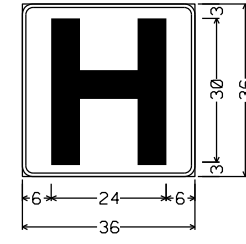
© TxDOT 2024		SHEET 12 OF 24	
CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	63	



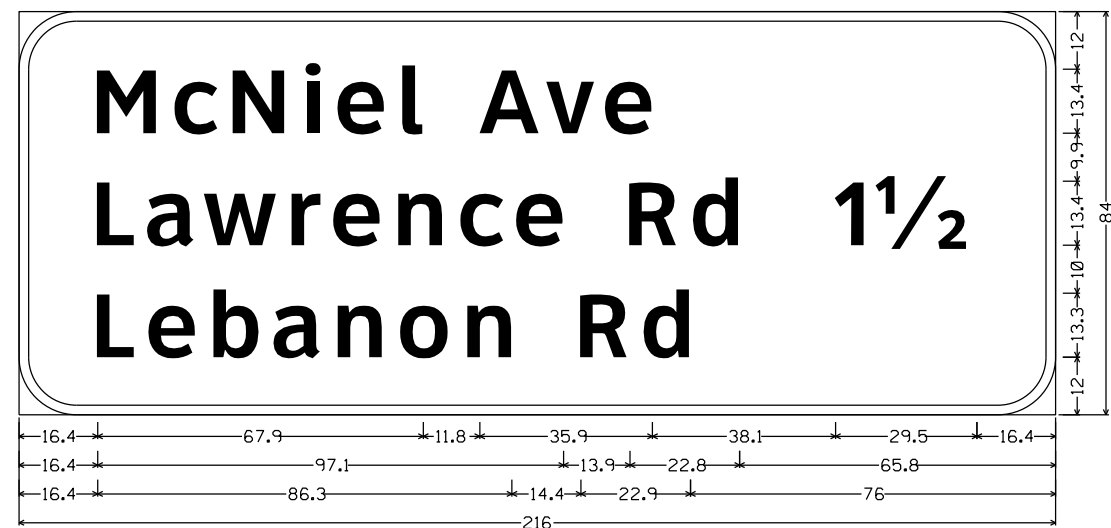
SIGN #42A: US82 EB
 @ BRIDGE OVER BU 277A



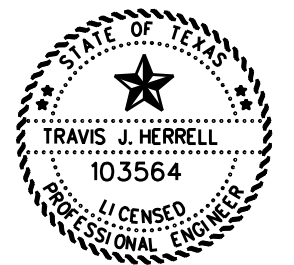
SIGN #43A: US82 EB
 @ BARNETT RD EXIT



SIGN #42B: US82 EB
 @ BRIDGE OVER BU 277A

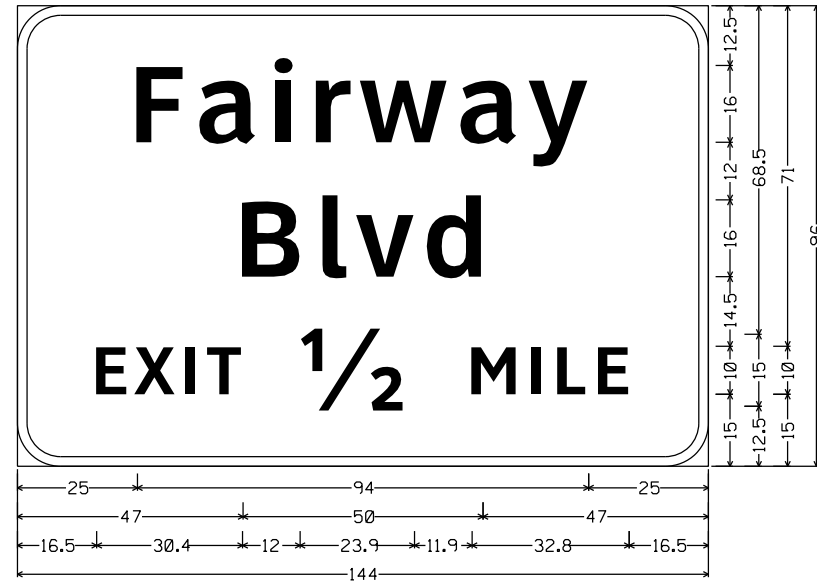


SIGN #44A: US82 EB
 @ BRIDGE OVER BARNETT RD



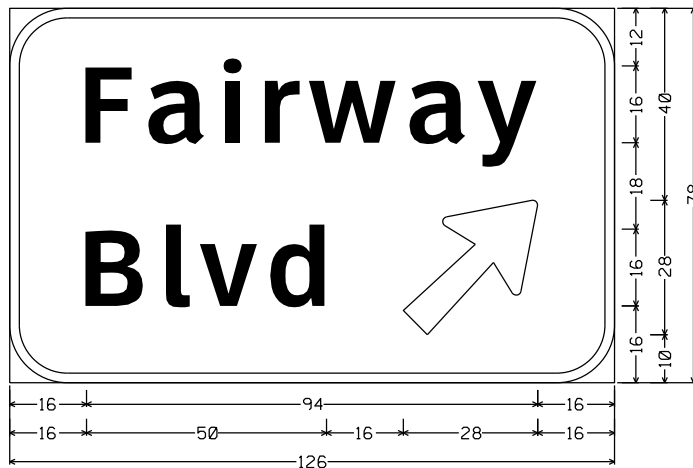
IH-44, ETC.
 LARGE OVERHEAD
 SIGN DETAILS

© TxDOT 2024		SHEET 13 OF 24	
CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	64	



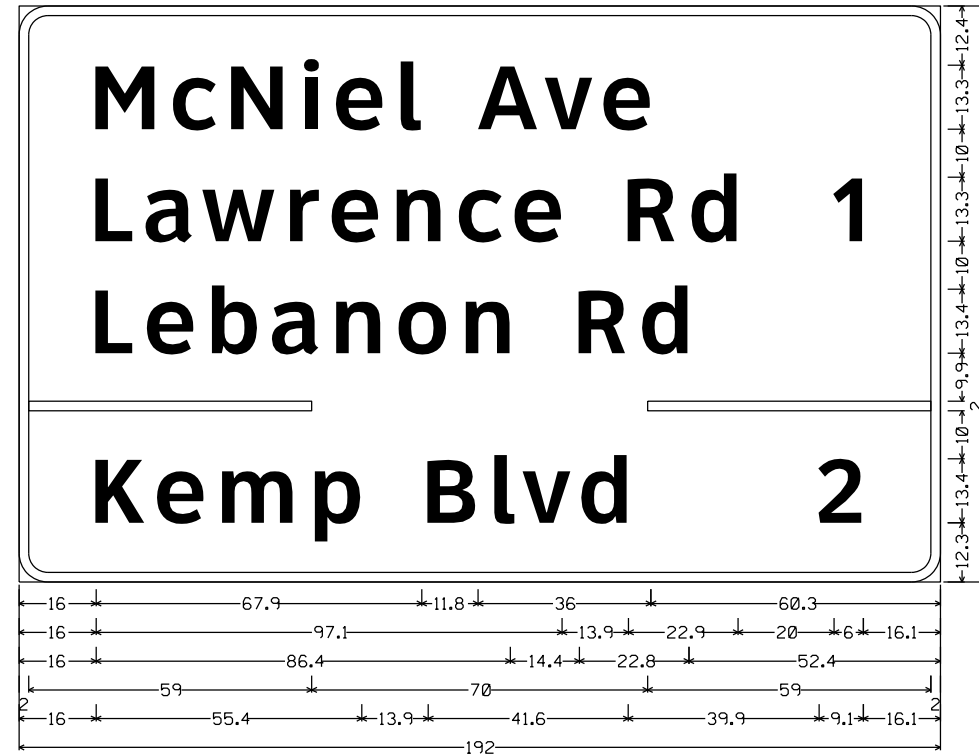
9.0' Radius, 2.0' Border, White on Green;
 "Fairway", ClearviewHwy-5-W-R; "Blvd", ClearviewHwy-5-W-R;
 "EXIT", ClearviewHwy-5-W-R; "5/64", ClearviewHwy-5-W-R; "MILE", ClearviewHwy-5-W-R;

SIGN #44B: US82 EB
 @ BRIDGE OVER BARNETT RD



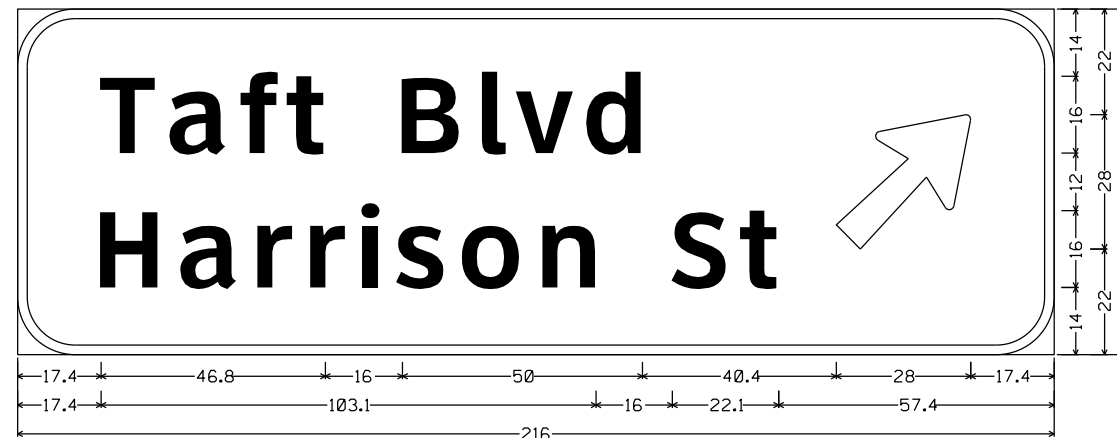
12.0' Radius, 2.0' Border, White on Green;
 "Fairway", ClearviewHwy-5-W-R; "Blvd", ClearviewHwy-5-W-R;
 Arrow A-3 - 35.6' 45³³/₆₄;

SIGN #45B: US82 EB
 @ FAIRWAY BLVD EXIT



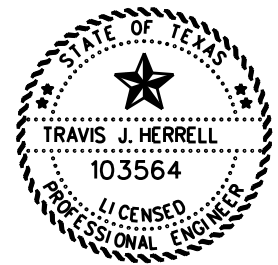
6.0' Radius, 2.0' Border, White on Green;
 "McNiel Ave", ClearviewHwy-5-W-R; "Lawrence Rd", ClearviewHwy-5-W-R; "1", ClearviewHwy-5-W-R;
 "Lebanon Rd", ClearviewHwy-5-W-R; "Kemp Blvd", ClearviewHwy-5-W-R; "2", ClearviewHwy-5-W-R;

SIGN #45A: US82 EB
 @ FAIRWAY BLVD EXIT



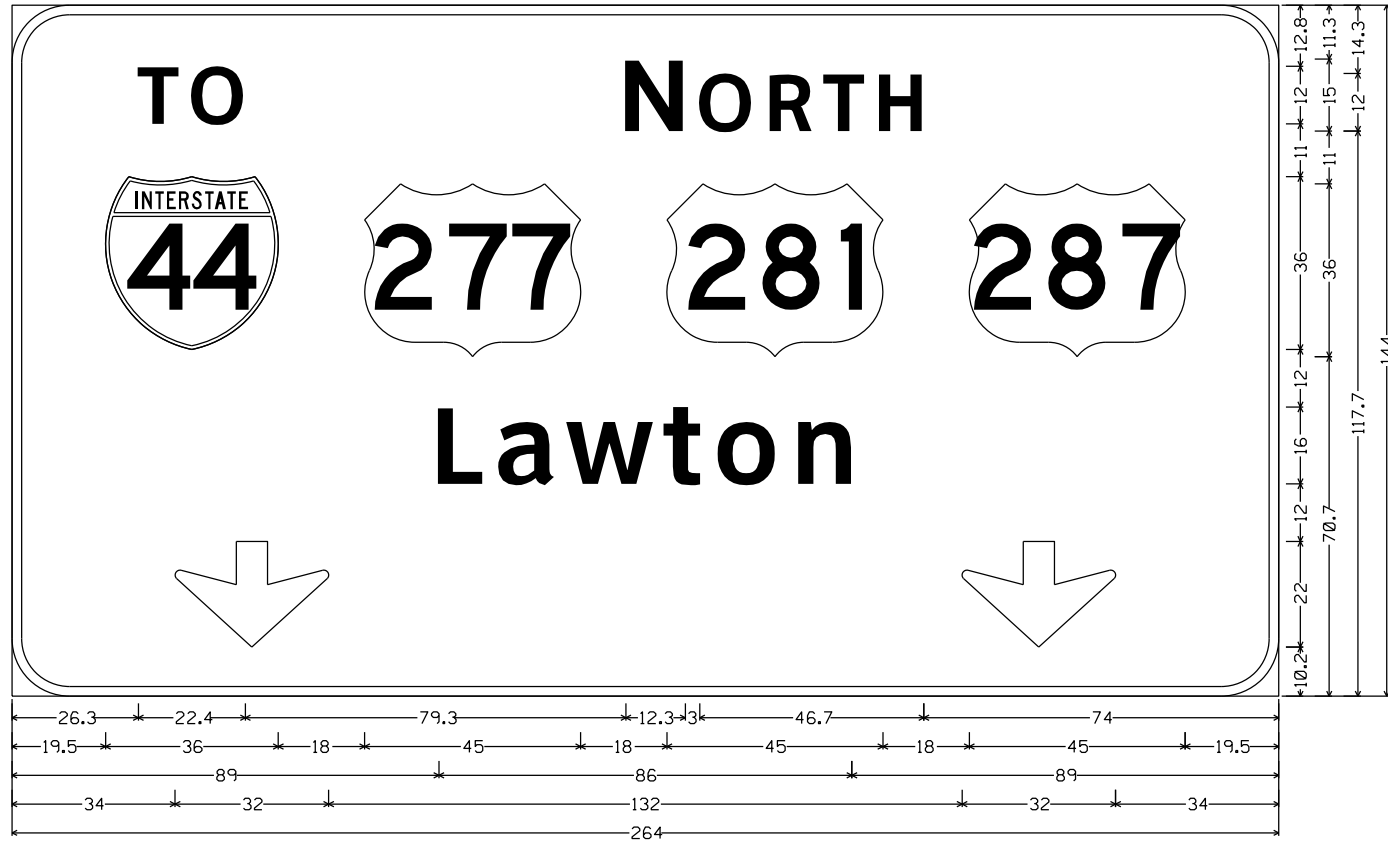
12.0' Radius, 2.0' Border, White on Green;
 "Taft Blvd", ClearviewHwy-5-W-R; "Harrison St", ClearviewHwy-5-W-R; Arrow A-3 - 35.6' 45³³/₆₄;

SIGN #46: US82 EB
 @ TAFT BLVD/HARRISON ST EXIT

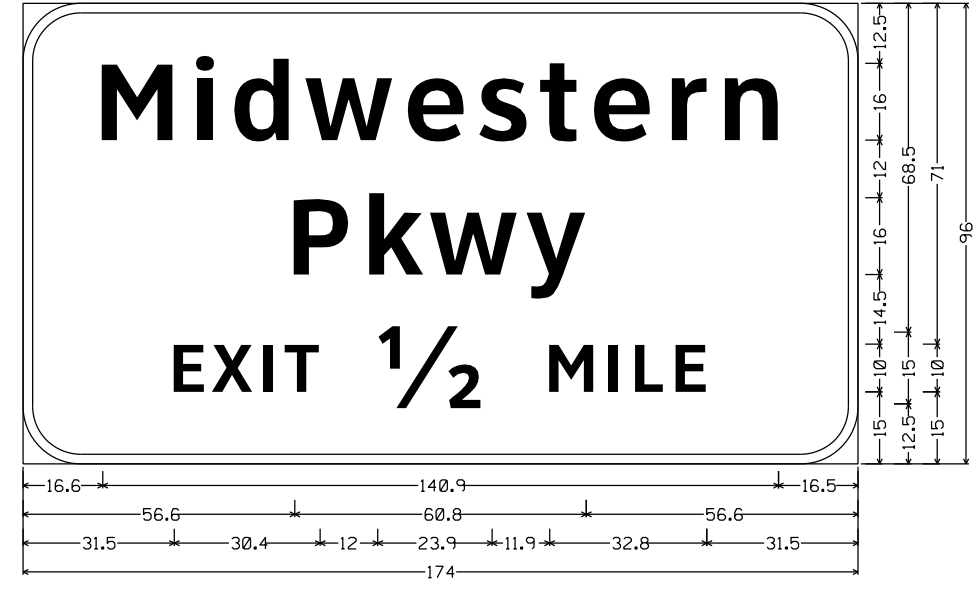


IH-44, ETC.
 LARGE OVERHEAD
 SIGN DETAILS

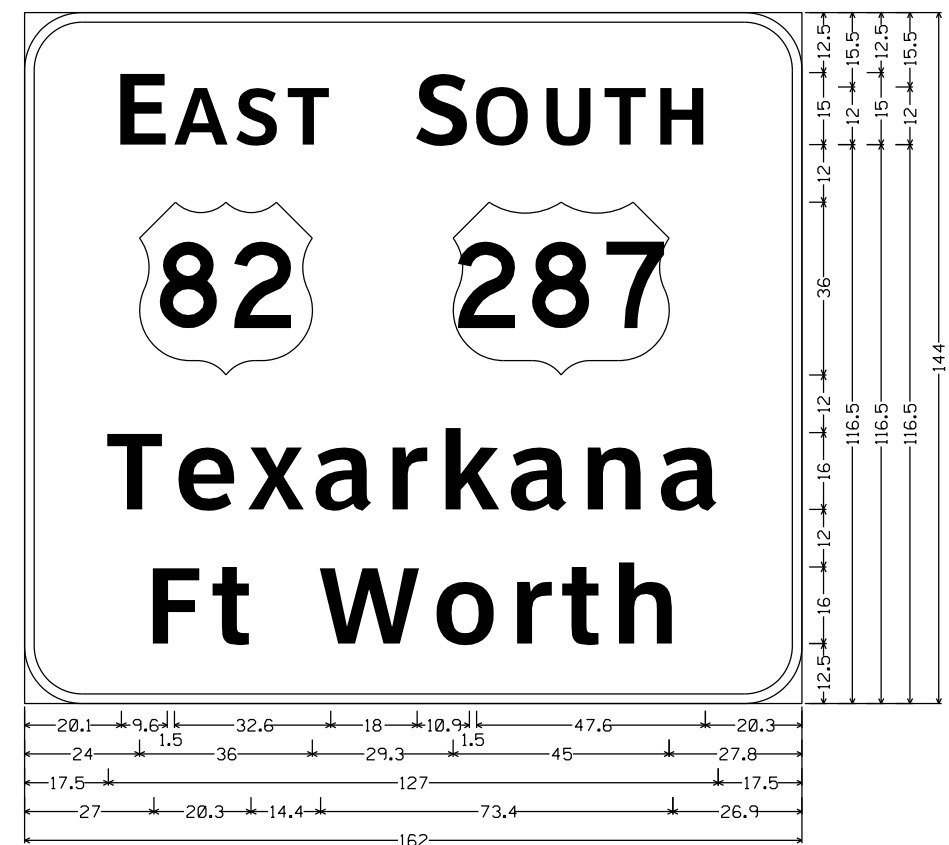
© TxDOT 2024		SHEET 14 OF 24	
CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	65	



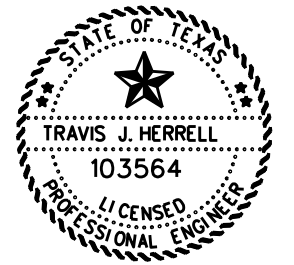
SIGN #47: US 82 EB
 LOCATED UNDER THE FLYOVER/OVERHEAD



SIGN #48: US 281 NB
 @ HATTON RD EXIT



SIGN #49: US 82 EB
 @ SH 79 NB EXIT



IH-44, ETC.
 LARGE OVERHEAD
 SIGN DETAILS

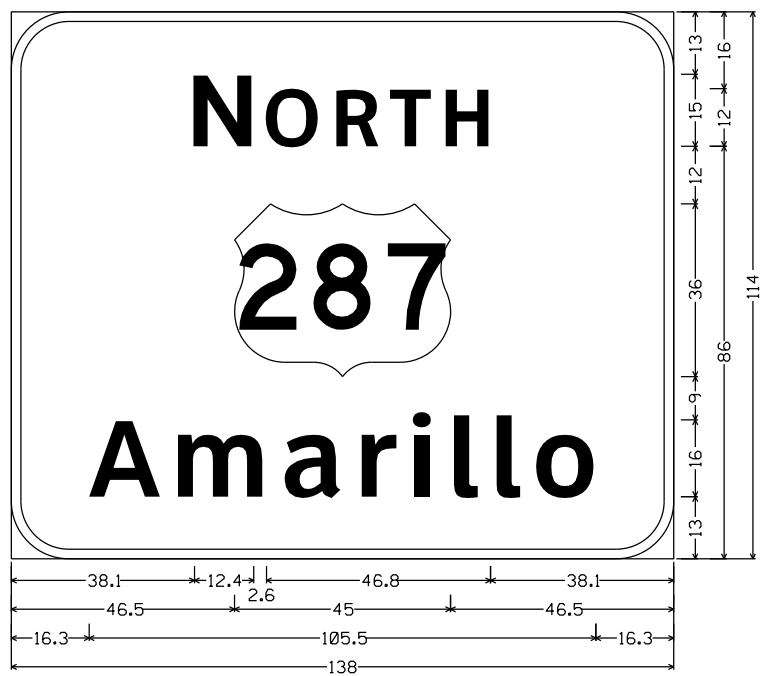
© TxDOT 2024 SHEET 15 OF 24

CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	66	



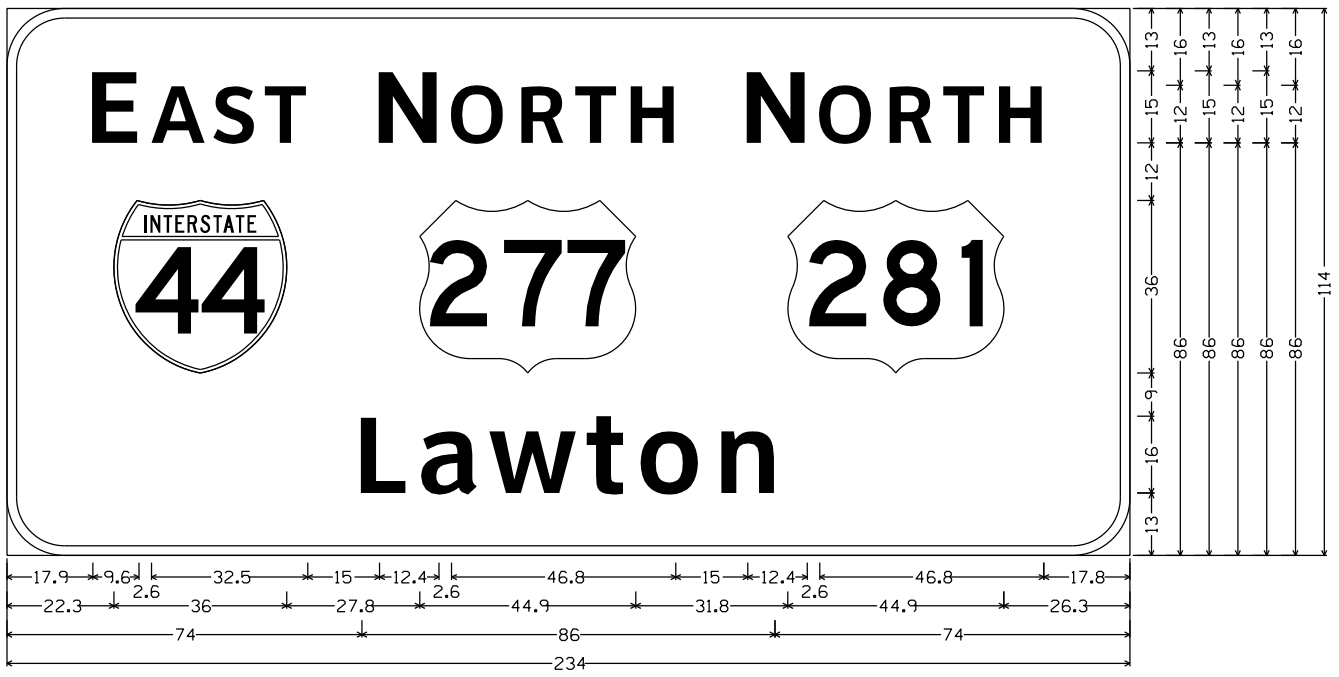
12.0" Radius, 2.0" Border, White on Green;
 "W EST", ClearviewHwy-5-W-R; US 82 MI-4; "S OUTH", ClearviewHwy-5-W-R; US 277 MI-4;
 "Lubbock", ClearviewHwy-5-W-R; "Abilene", ClearviewHwy-5-W-R; "EXIT", ClearviewHwy-5-W-R;
 "3/4", ClearviewHwy-5-W-R; "MILE", ClearviewHwy-5-W-R;

SIGN #50: US 82 WB
 @ SL 473 EXIT



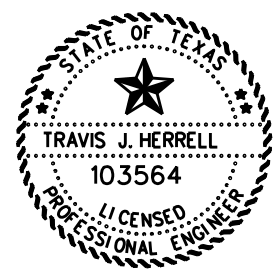
E1-2-VARx120;
 12.0" Radius, 2.0" Border, White on Green;
 "N ORTH", ClearviewHwy-5-W-R; US 287 MI-4; "Amarillo", ClearviewHwy-5-W-R;

SIGN #51A: IH44 EB
 @ 6TH ST EXIT



E1-2-VARx120;
 12.0" Radius, 2.0" Border, White on Green;
 "E AST", ClearviewHwy-5-W-R; Interstate 44 MI-1; "N ORTH", ClearviewHwy-5-W-R; US 277 MI-4; "N ORTH", ClearviewHwy-5-W-R;
 US 281 MI-4; "Lawton", ClearviewHwy-5-W-R;

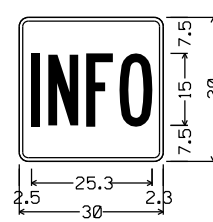
SIGN #51B: IH44 EB
 @ 6TH ST EXIT



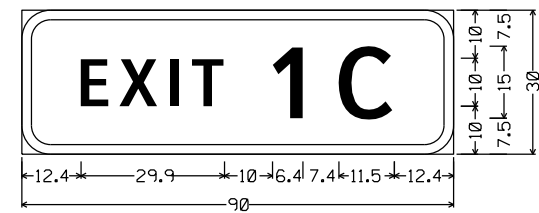
IH-44, ETC.
 LARGE OVERHEAD
 SIGN DETAILS

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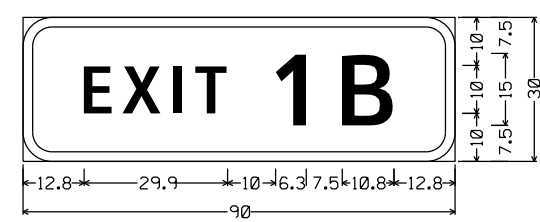
CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	67	



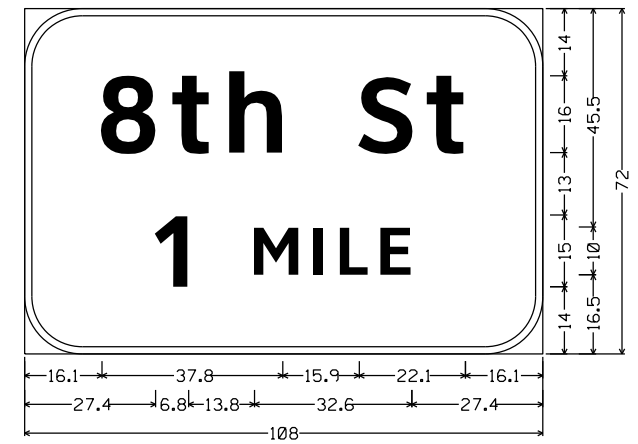
D9-10.30x30;
1.9" Radius, 0.8" Border, White on Blue;
INFO, B 58% spacing;



E1-5P_90x30;
6.0" Radius, 2.0" Border, White on Green;
EXIT 1, ClearviewHwy-4-W;
C, ClearviewHwy-4-W specified length;

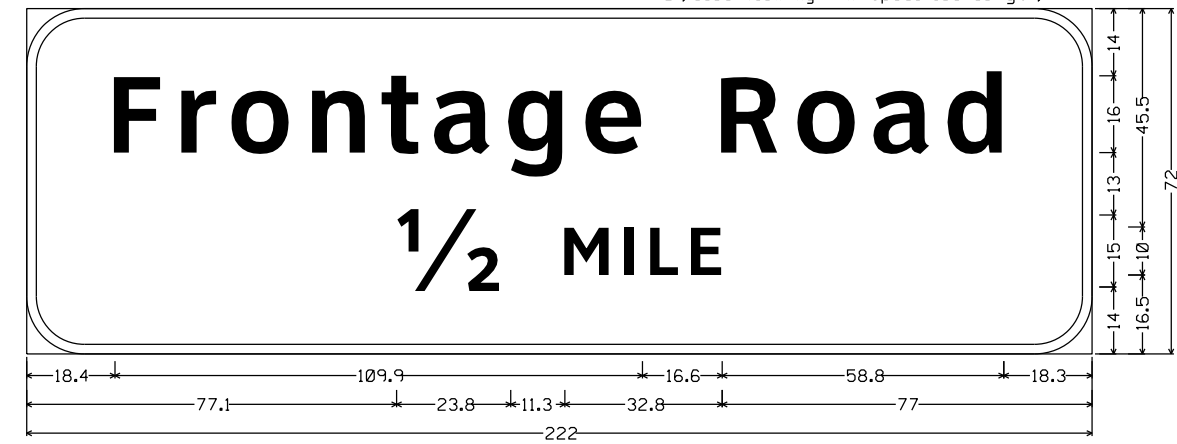


E1-5P_90x30;
6.0" Radius, 2.0" Border, White on Green;
EXIT 1, ClearviewHwy-4-W;
B, ClearviewHwy-4-W specified length;



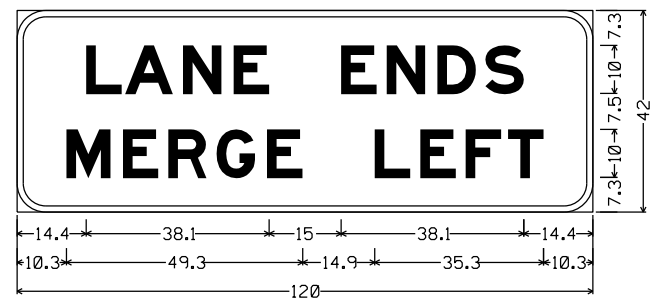
E1-2_VARx120;
12.0" Radius, 1.5" Border, White on Green;
8th St, ClearviewHwy-5-W-R; *1 MILE*, ClearviewHwy-5-W-R;

SIGN #52A: IH44 EB
AFTER BROAD ST ON RAMP



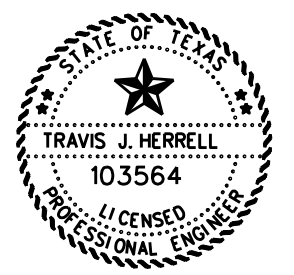
E1-2_VARx120;
12.0" Radius, 2.0" Border, White on Green;
Frontage Road, ClearviewHwy-5-W-R; *1/2 MILE*, ClearviewHwy-5-W-R;

SIGN #52B: IH44 EB
AFTER BROAD ST ON RAMP



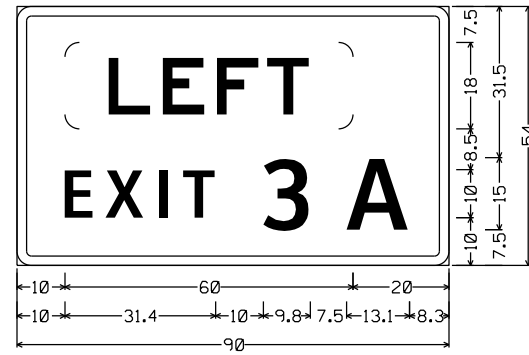
E2-1aB_108x48;
6.0" Radius, 1.3" Border, Black on Yellow;
LANE ENDS, E Mod; *MERGE LEFT*, E Mod;

SIGN #52C: IH44 EB
AFTER BROAD ST ON RAMP

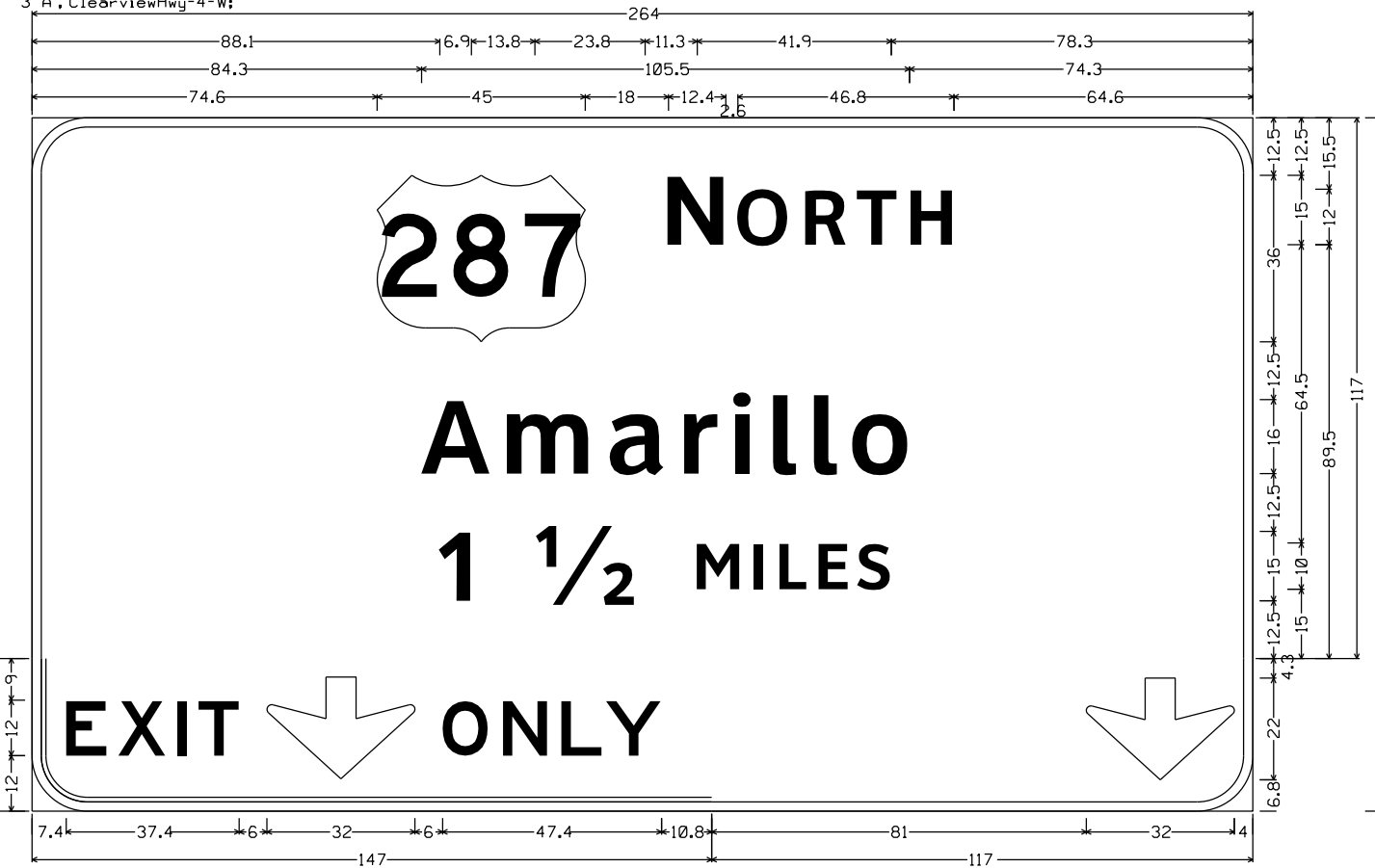


IH-44, ETC.
LARGE OVERHEAD
SIGN DETAILS

© TxDOT 2024		SHEET 17 OF 24	
CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	68	



E1-5bP_84x54;
3.0" Radius, 2.0" Border, White on Green;
"EXIT", ClearviewHwy-4-W specified length;
"3 A", ClearviewHwy-4-W;

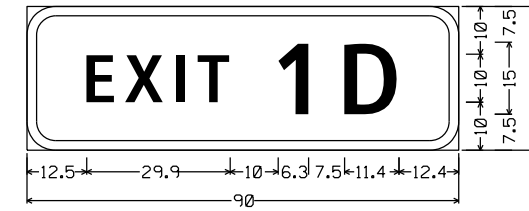


E11-1dT_VARxVAR;
12.0" Radius, 2.0" Border, White on Green;
US 287 MI-4; "N ORTH", ClearviewHwy-5-W-R; "Amarillo", ClearviewHwy-5-W-R; "1 5/8" MILES", ClearviewHwy-5-W-R;

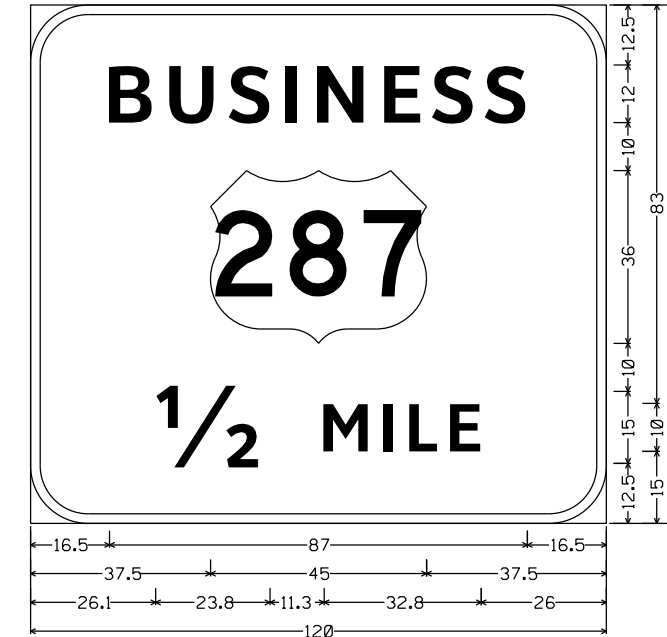
1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on Yellow;
"EXIT" Black, E; Down Arrow 22 - 22.0" 270^{33/64} Black; "ONLY" Black, E;

12.0" Radius, 2.0" Border, White on Green;
Down Arrow 22 - 22.0" 270^{33/64};

SIGN #59A: IH44 EB
@ 8TH ST EXIT

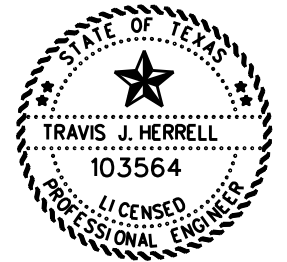


E1-5P_90x30;
6.0" Radius, 2.0" Border, White on Green;
"EXIT 1", ClearviewHwy-4-W;
"D", ClearviewHwy-4-W specified length;



E1-2_VARx120;
12.0" Radius, 2.0" Border, White on Green;
"BUSINESS", ClearviewHwy-5-W-R; US 287 MI-4;
"1/2 MILE", ClearviewHwy-5-W-R;

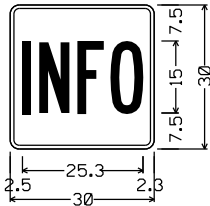
SIGN #59B: IH44 EB
@ 8TH ST EXIT



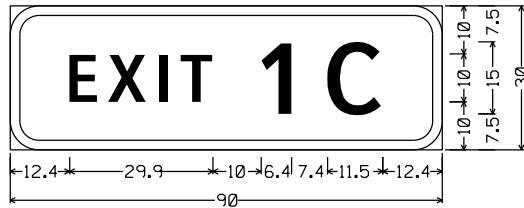
IH-44, ETC.
LARGE OVERHEAD
SIGN DETAILS

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CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	69	

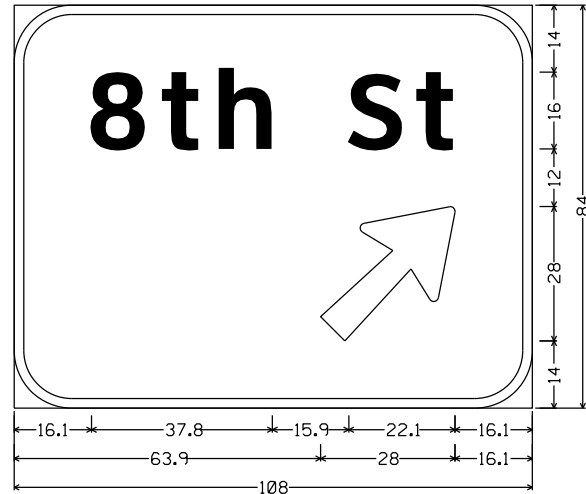
C/S: DW: C/S: D/S:



D9-10.30x30;
1.9" Radius, 0.8" Border, White on Blue;
"INFO", B 58% spacing;

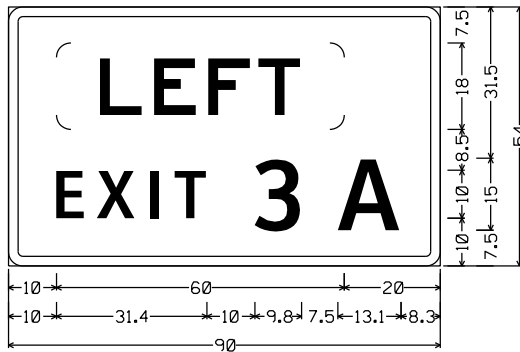


E1-5P_90x30;
6.0" Radius, 2.0" Border, White on Green;
"EXIT 1", ClearviewHwy-4-W;
"C", ClearviewHwy-4-W specified length;

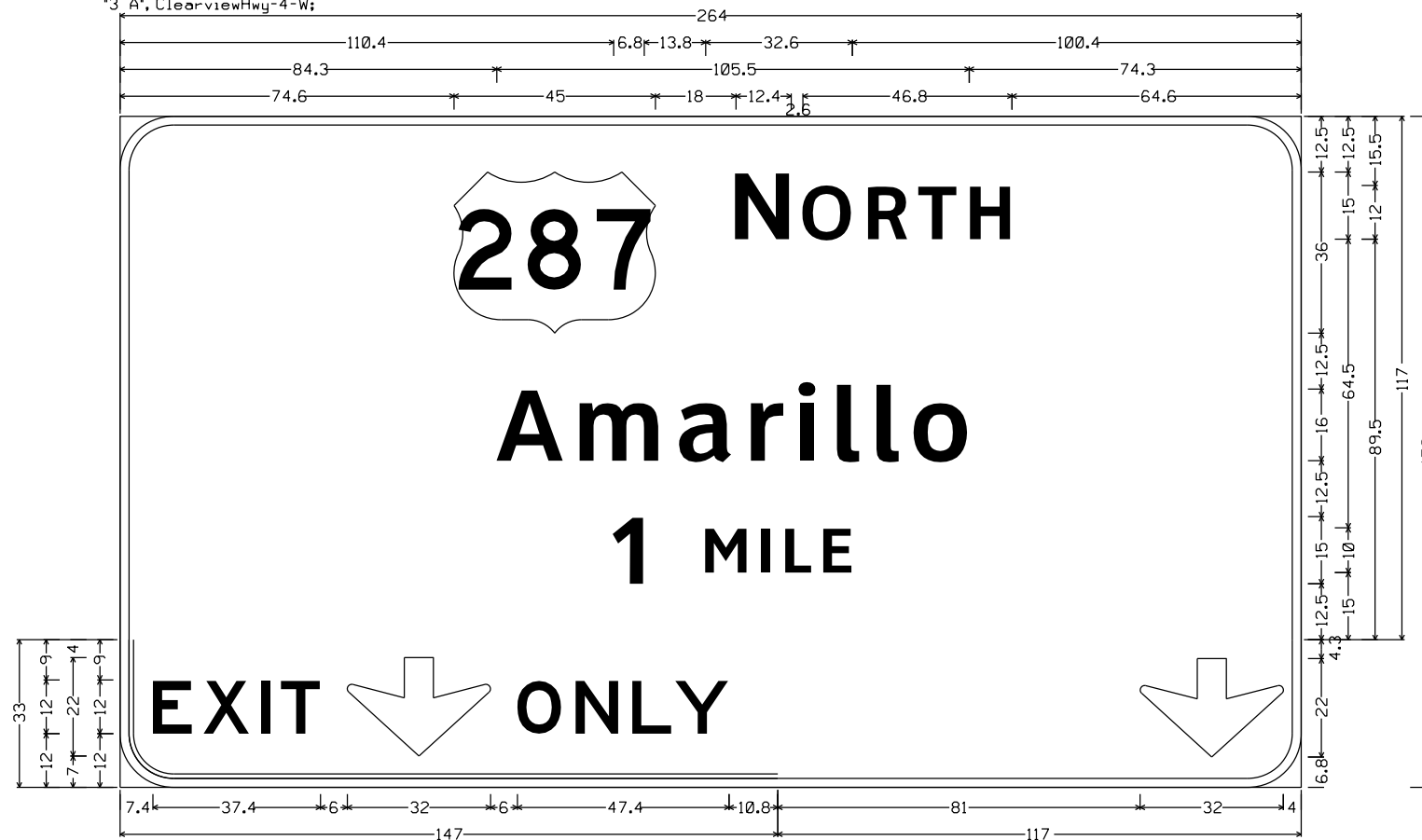


E1-2_VARx120;
12.0" Radius, 2.0" Border, White on Green;
"8th St", ClearviewHwy-5-W-R; Arrow A-3 - 35.6" 45³³/₆₄;

SIGN #59C: IH44 EB
@ 8TH ST EXIT

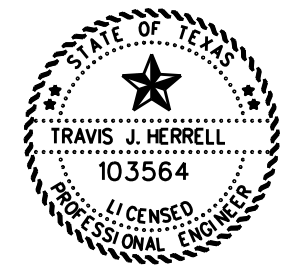


E1-5bP_84x54;
3.0" Radius, 2.0" Border, White on Green;
"EXIT", ClearviewHwy-4-W specified length;
"3 A", ClearviewHwy-4-W;



E11-1dT_VARxVAR;
12.0" Radius, 2.0" Border, White on Green;
US 287 MI-4; "N ORTH", ClearviewHwy-5-W-R; "Amarillo", ClearviewHwy-5-W-R; "1 MILE", ClearviewHwy-5-W-R;
1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on Yellow;
"EXIT" Black, E; Down Arrow 22 - 22.0" 270³³/₆₄ Black; "ONLY" Black, E;
12.0" Radius, 2.0" Border, White on Green;
Down Arrow 22 - 22.0" 270³³/₆₄;

SIGN #60A: IH44 EB
@ BU 287J EXIT



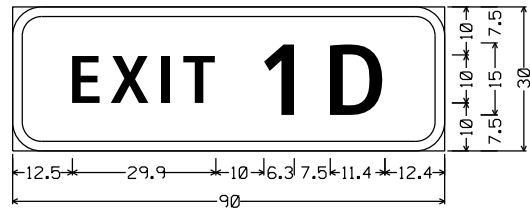
Texas Department of Transportation

IH-44, ETC.

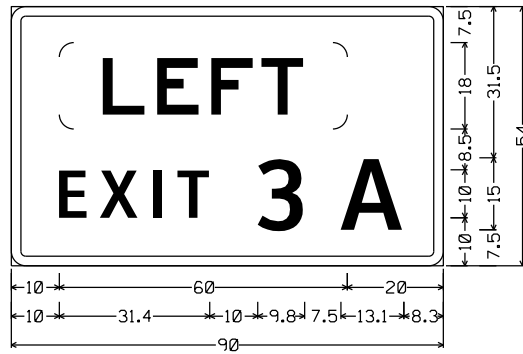
LARGE OVERHEAD SIGN DETAILS

© TxDOT 2024		SHEET 19 OF 24	
CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	70	

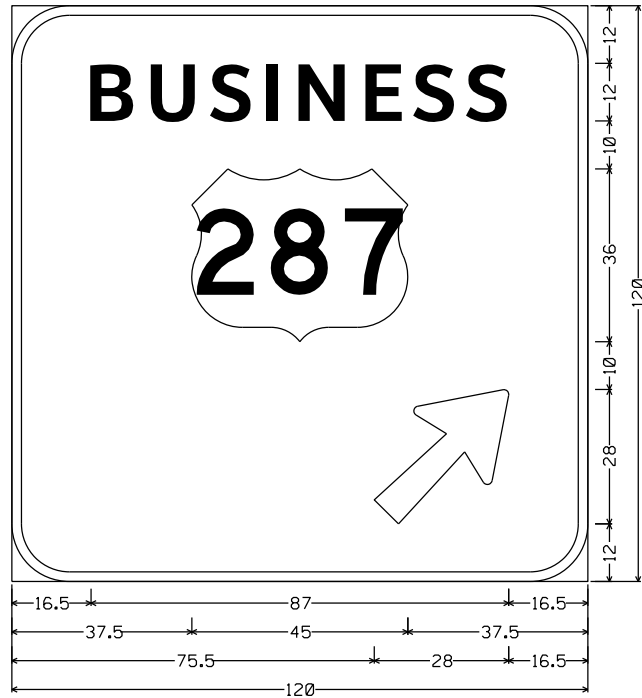
DATE: 4/22/2024 1:51:27 PM
FILE: T:\WFSMAINT\Maintenance Projects\6428-42-001_Lg_Sign_Rplcmt_FY2024\4 - Design\Master Design File\DCN Files\LARGE OVERHEAD SIGN DETAILS.dgn



E1-5P_90x30;
6.0" Radius, 2.0" Border, White on Green;
"EXIT 1", ClearviewHwy-4-W;
"D", ClearviewHwy-4-W specified length;

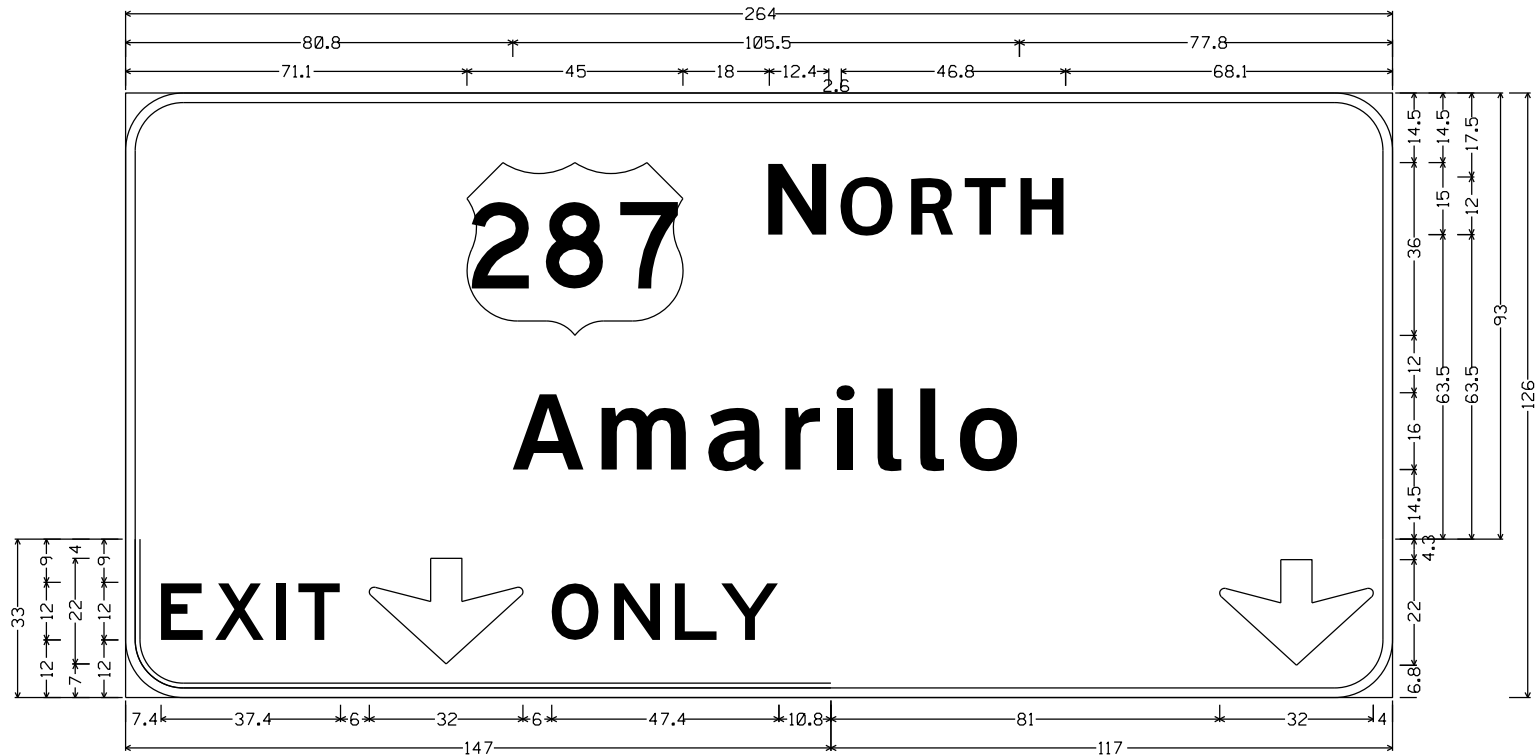


E1-5bP_84x54;
3.0" Radius, 2.0" Border, White on Green;
"EXIT", ClearviewHwy-4-W specified length;
"3 A", ClearviewHwy-4-W;



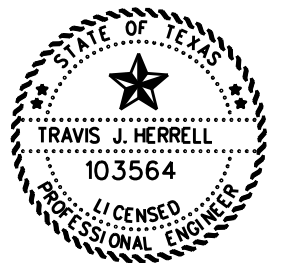
E1-2_VARx120;
12.0" Radius, 2.0" Border, White on Green;
"BUSINESS", ClearviewHwy-5-W-R; US 287 MI-4;
Arrow A-3 - 35.6" 45³³/₆₄;

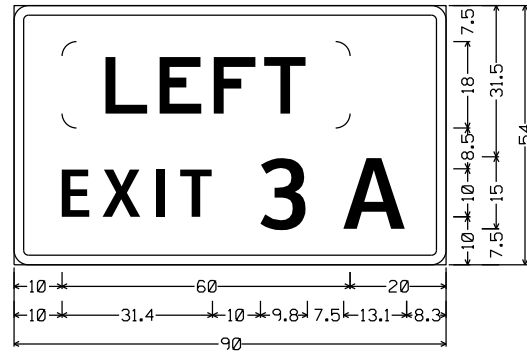
SIGN #60B: IH44 EB
@ BU 287J EXIT



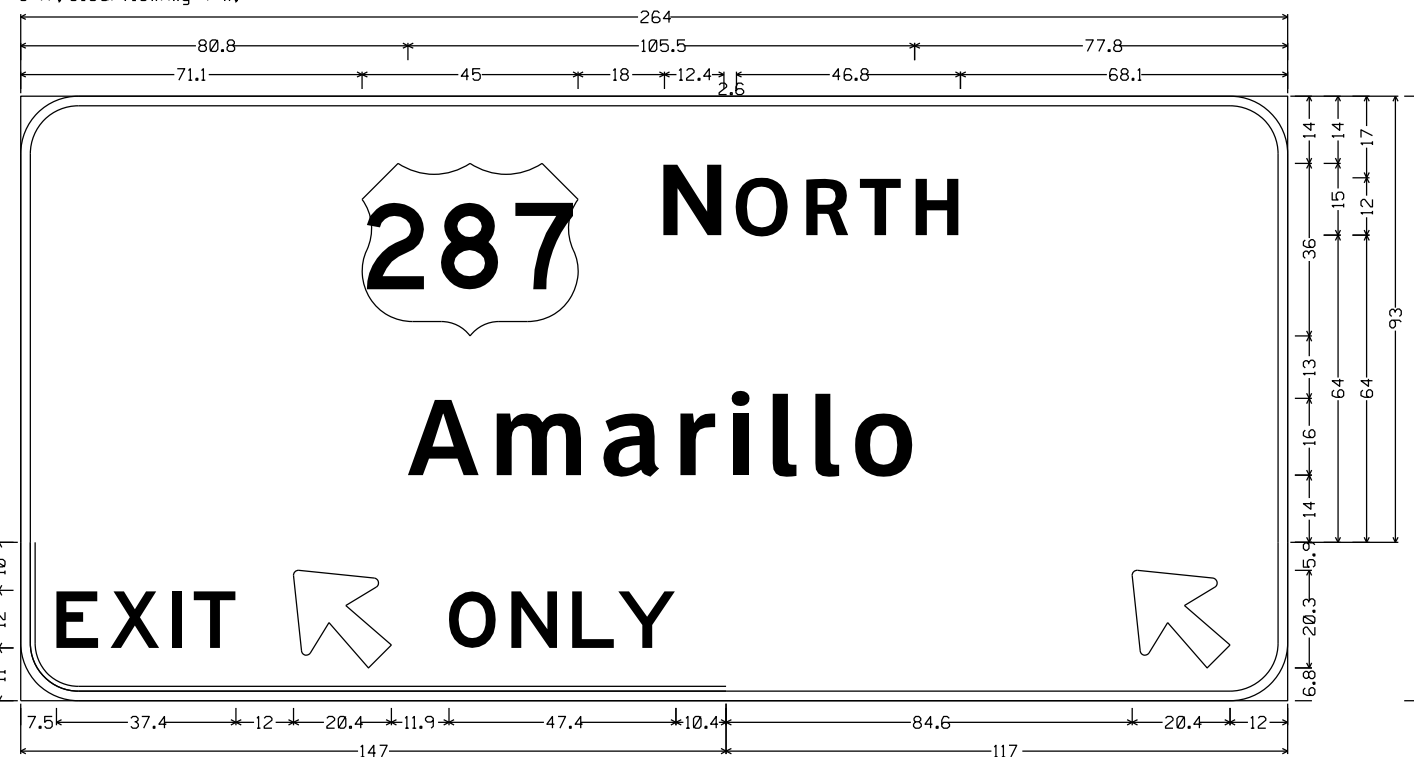
E11-1dT_VARxVAR;
12.0" Radius, 2.0" Border, White on Green;
US 287 MI-4; "N ORTH", ClearviewHwy-5-W-R; "Amarillo", ClearviewHwy-5-W-R;
1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on Yellow;
"EXIT" Black, E; Down Arrow 22 - 22.0" 270³³/₆₄ Black; "ONLY" Black, E;
12.0" Radius, 2.0" Border, White on Green;
Down Arrow 22 - 22.0" 270³³/₆₄;

SIGN #62: IH44 EB
@ MAURINE ST EXIT



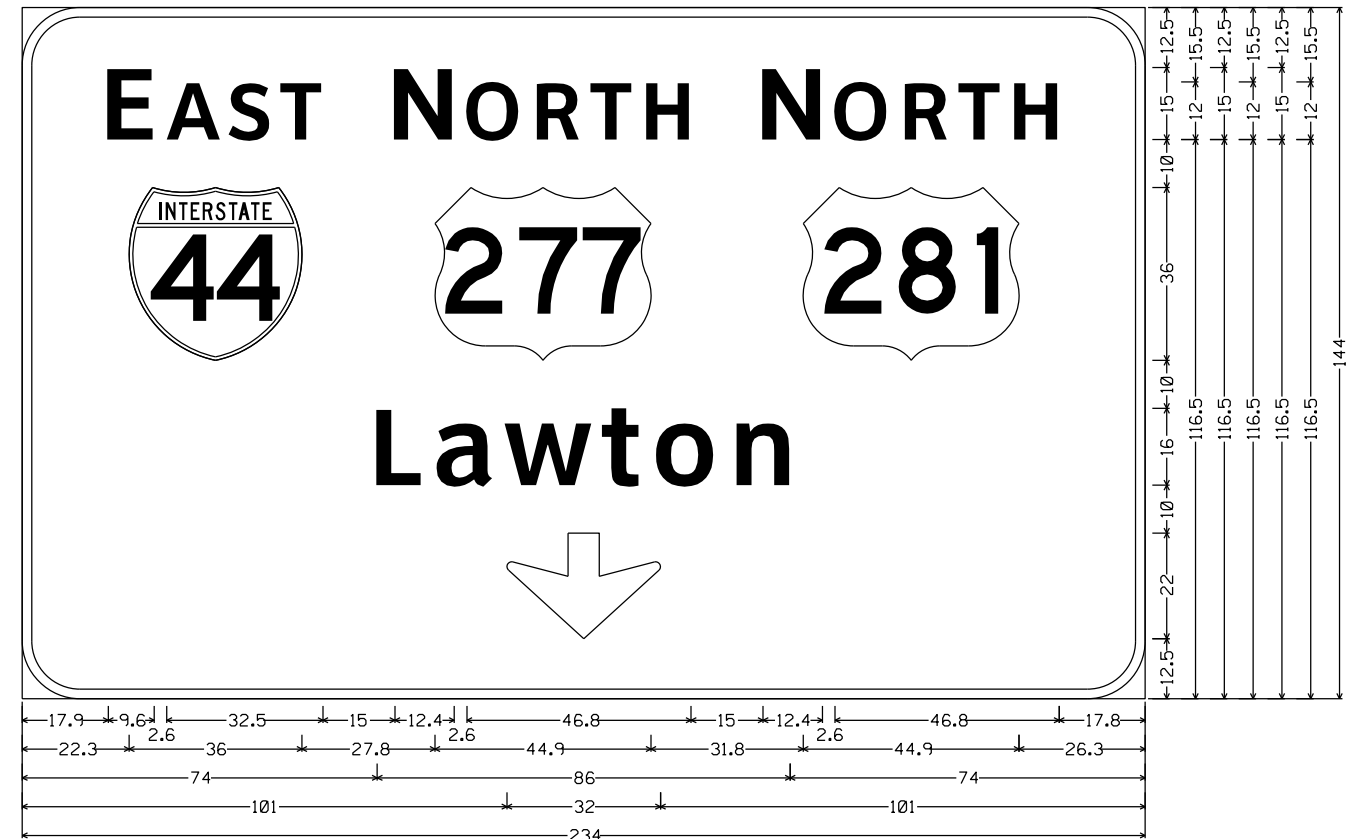


E1-5bP .84x54;
 3.0" Radius, 2.0" Border, White on Green;
 EXIT, ClearviewHwy-4-W specified length;
 3 A, ClearviewHwy-4-W;



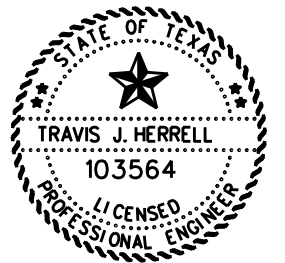
E11-1dT .VARxVAR;
 12.0" Radius, 2.0" Border, White on Green;
 US 287 MI-4; *N ORTH*, ClearviewHwy-5-W-R; *Amarillo*, ClearviewHwy-5-W-R;
 1.0" Inner border Green, 12.0" Radius, 2.0" Outer border, White on Yellow;
 EXIT Black, E; Arrow B-3 - 25.0" 135³³/₆₄; Black; *ONLY* Black, E;
 12.0" Radius, 2.0" Border, White on Green;
 Arrow B-3 - 25.0" 135³³/₆₄;

SIGN #65A: IH44 EB
 @ US 287/IH 44/SS 325 EXIT



E1-2 .VARx120;
 12.0" Radius, 2.0" Border, White on Green;
 E AST, ClearviewHwy-5-W-R; Interstate 44 MI-1; *N ORTH*, ClearviewHwy-5-W-R; US 277 MI-4; *N ORTH*, ClearviewHwy-5-W-R;
 US 281 MI-4; *Lawton*, ClearviewHwy-5-W-R; Down Arrow 22 - 22.0" 270³³/₆₄;

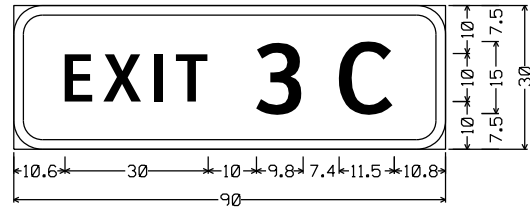
SIGN #65B: IH44 EB
 @ US 287/IH 44/SS 325 EXIT



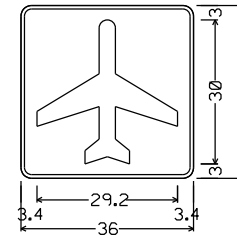
IH-44, ETC.
 LARGE OVERHEAD
 SIGN DETAILS

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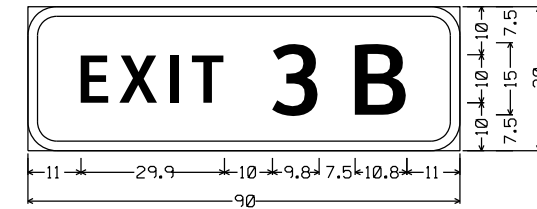
CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	72	



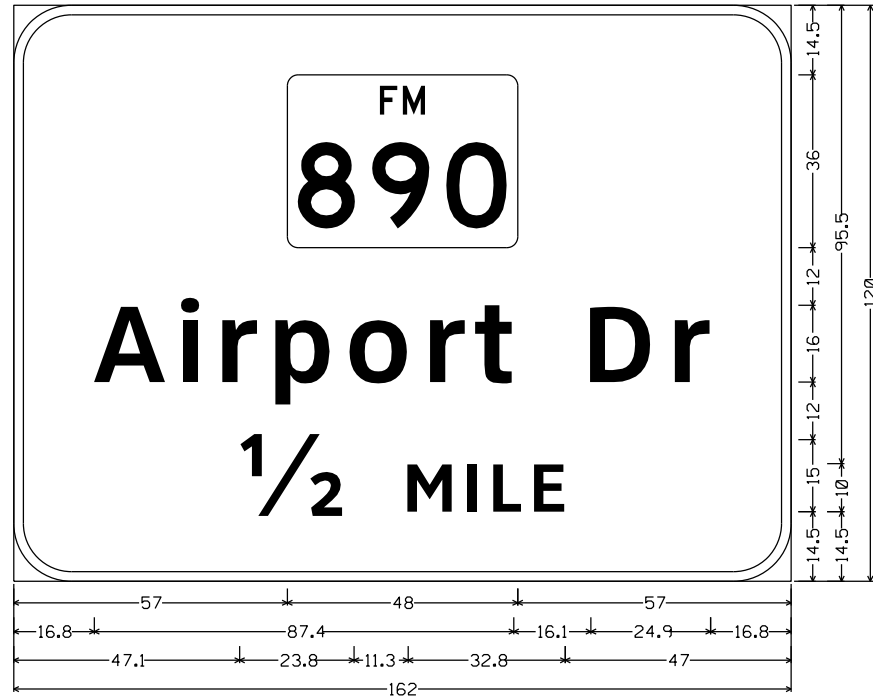
E1-5P-90x30;
6.0" Radius, 2.0" Border, White on Green;
"EXIT 3", ClearviewHwy-4-W;
"C", ClearviewHwy-4-W specified length;



I-5-36x36;
2.3" Radius, 0.8" Border, White on Green;
Symbol I-5;

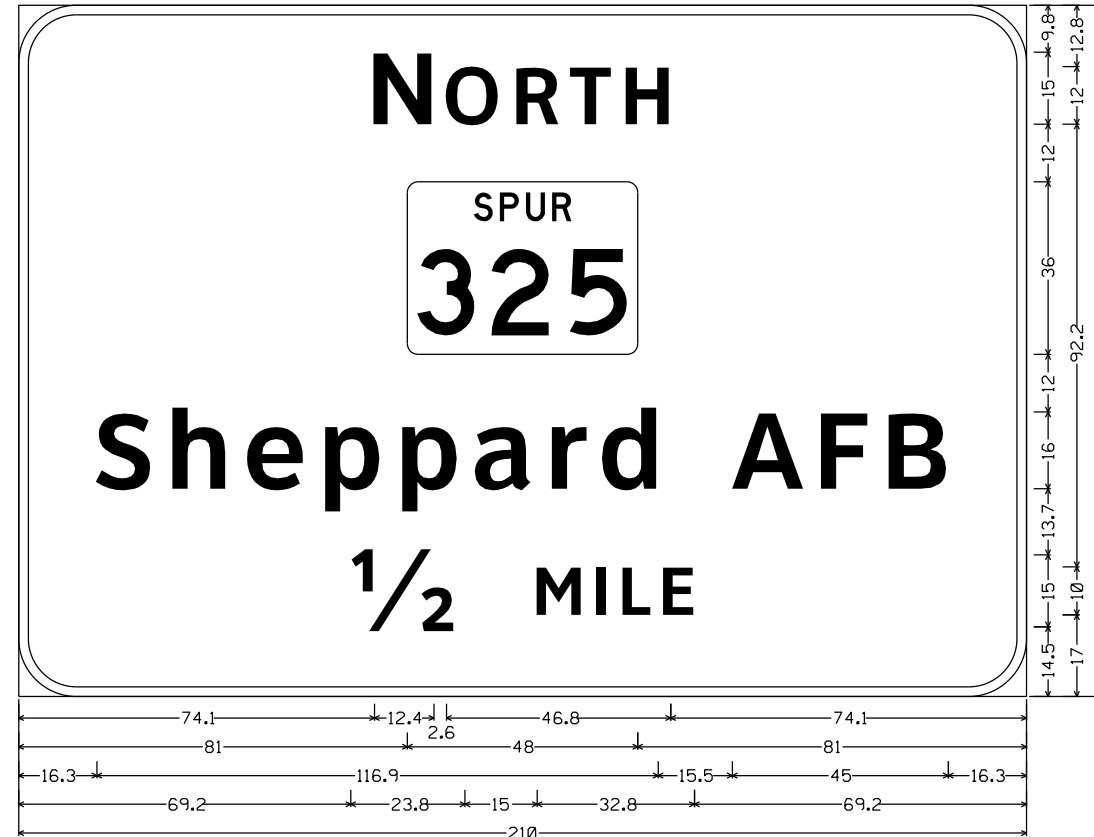


E1-5P-90x30;
6.0" Radius, 2.0" Border, White on Green;
"EXIT 3", ClearviewHwy-4-W;
"B", ClearviewHwy-4-W specified length;



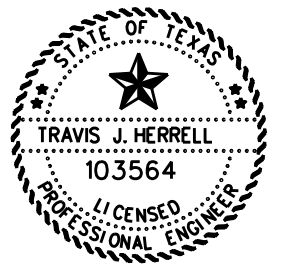
E1-2-VARx120;
12.0" Radius, 2.0" Border, White on Green;
State Highway 890 MI-6F3; "Airport Dr", ClearviewHwy-5-W-R; "5/64 MILE", ClearviewHwy-5-W-R;

SIGN #66: IH44 EB
@ IH 44/SS 325 EXIT



E1-2-VARx120;
12.0" Radius, 2.0" Border, White on Green;
"N ORTH", ClearviewHwy-5-W-R; State Highway 325 MI-6S3; "Sheppard AFB", ClearviewHwy-5-W-R;
"5/64 MILE", ClearviewHwy-5-W-R;

SIGN #73A: IH44 WB
@ US 287 NORTH EXIT



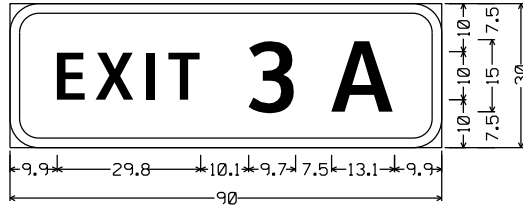
Texas Department of Transportation

IH-44, ETC.
LARGE OVERHEAD
SIGN DETAILS

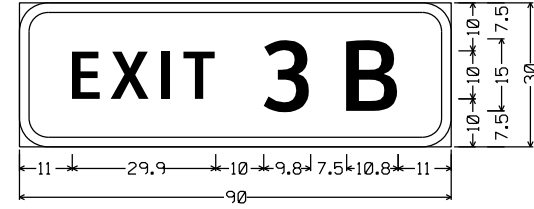
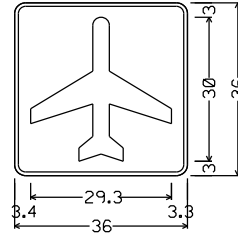
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CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	73	

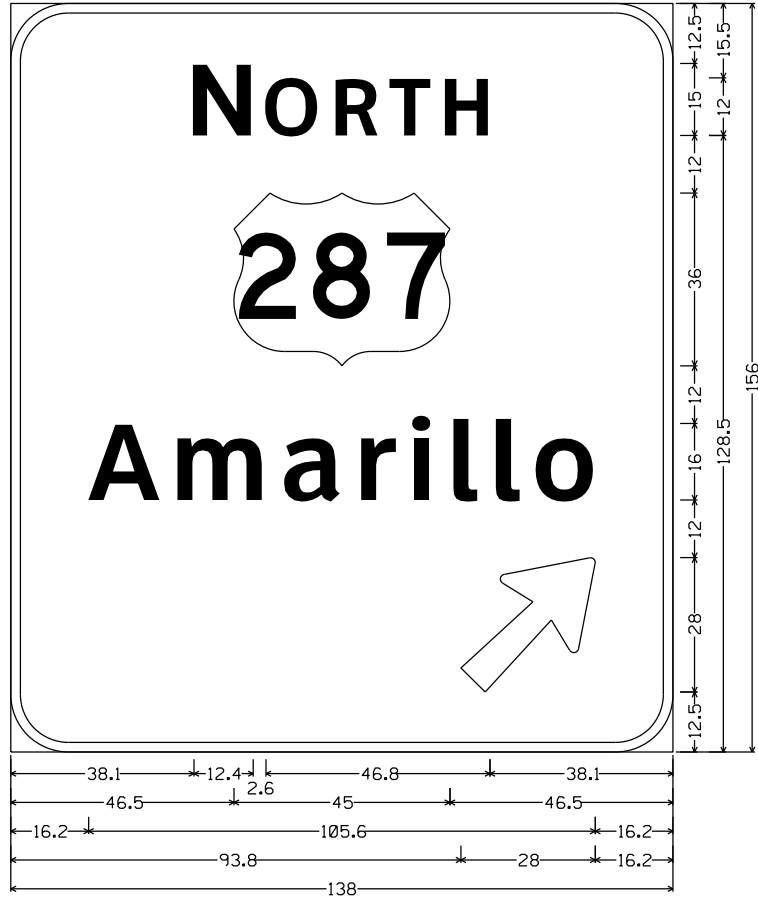
C/S:
 DWG:
 C/S:
 Dwg:



E1-5P_90x30;
 6.0" Radius, 2.0" Border, White on Green;
 EXIT 3, ClearviewHwy-4-W;
 A, ClearviewHwy-4-W specified length;

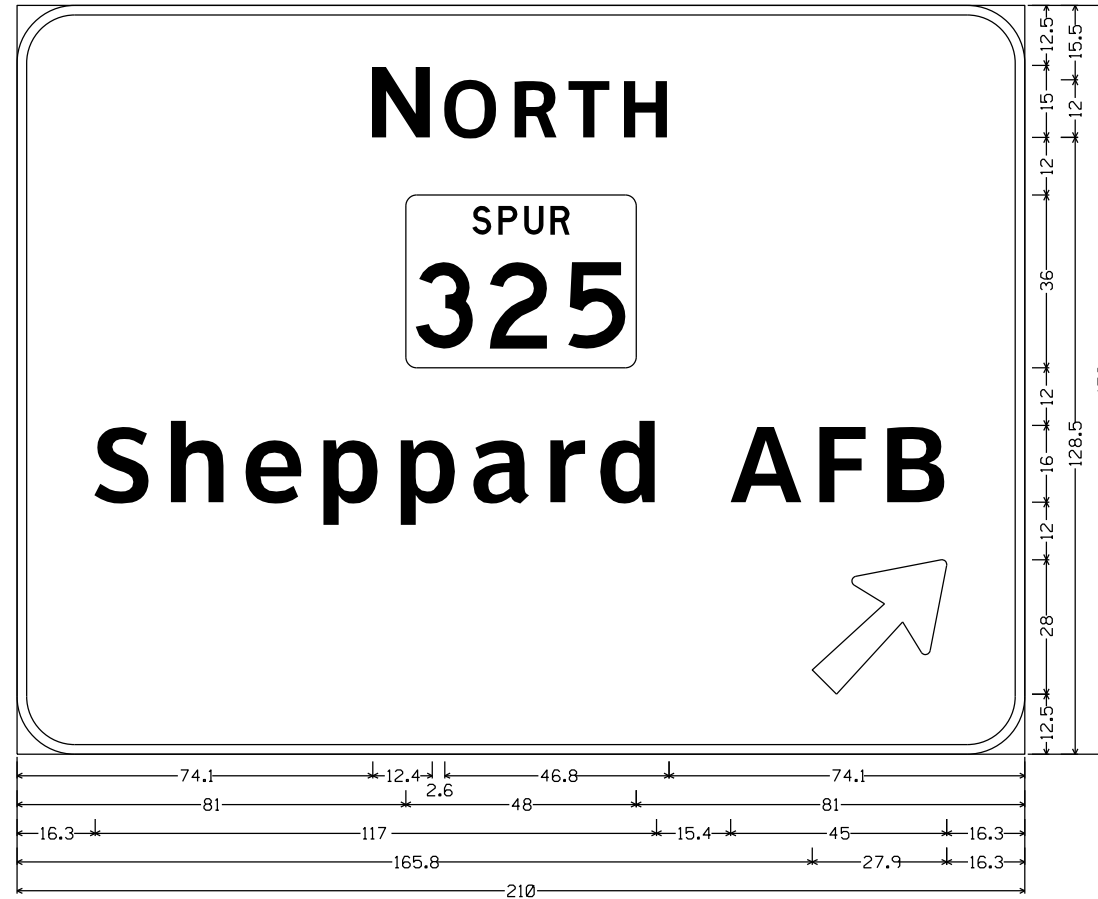


E1-5P_90x30;
 6.0" Radius, 2.0" Border, White on Green;
 EXIT 3, ClearviewHwy-4-W;
 B, ClearviewHwy-4-W specified length;



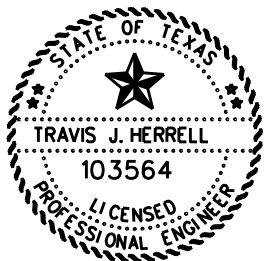
E1-2_VARx120;
 12.0" Radius, 2.0" Border, White on Green;
 N ORTH, ClearviewHwy-5-W-R; US 287 MI-4; *Amarillo*, ClearviewHwy-5-W-R;
 Arrow A-3 - 35.6' 45³³/₆₄;

SIGN #73B: IH44 WB
 @ US 287 NORTH EXIT



E1-2_VARx120;
 12.0" Radius, 2.0" Border, White on Green;
 N ORTH, ClearviewHwy-5-W-R; State Highway 325 MI-6S3; *Sheppard AFB*, ClearviewHwy-5-W-R; Arrow A-3 - 35.6' 45³³/₆₄;

SIGN #74: IH44 WB
 @ SS 325 NORTH EXIT

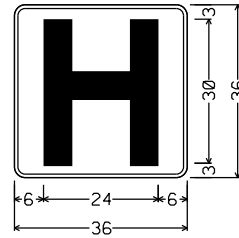


DATE: 4/22/2024 10:05:12 AM
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IH-44, ETC.
 LARGE OVERHEAD
 SIGN DETAILS

© TxDOT 2024		SHEET 23 OF 24	
CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY		SHEET NO.
WFS	WICHITA, ETC.		74

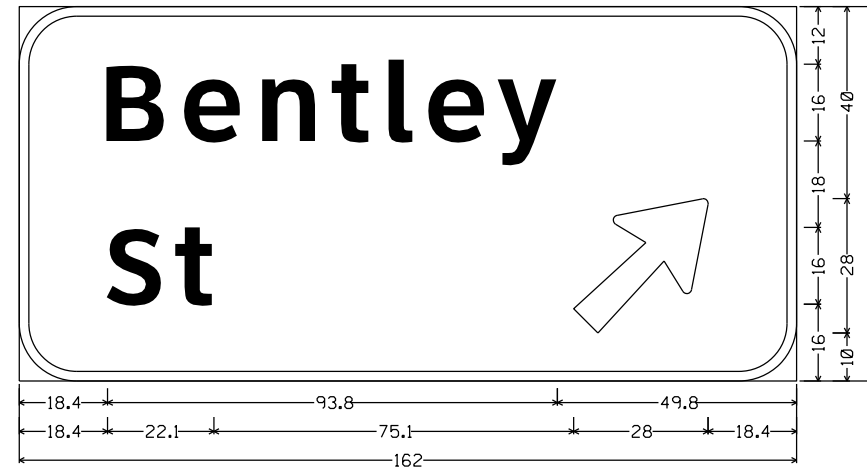


D9-2.36x36;
2.3' Radius, 0.8' Border, White on Blue;
'H', E Mod;



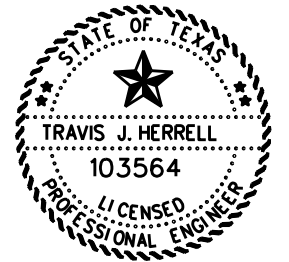
12.0' Radius, 2.0' Border, White on Green;
 'TO', ClearviewHwy-5-W-R; 'W EST', ClearviewHwy-5-W-R; US 70 M1-4; 'BUSINESS', ClearviewHwy-5-W-R;
 US 287 M1-4; 'Plainview', ClearviewHwy-5-W-R; 'EXIT', ClearviewHwy-5-W-R; '1', ClearviewHwy-5-W-R;
 'MILE', ClearviewHwy-5-W-R;

SIGN #86A: US287 NB
@ BENTLEY ST EXIT



12.0' Radius, 2.0' Border, White on Green;
'Bentley', ClearviewHwy-5-W-R; 'St', ClearviewHwy-5-W-R; Arrow A-3 - 35.6' 45³³/₆₄;

SIGN #86B: US287 NB
@ BENTLEY ST EXIT

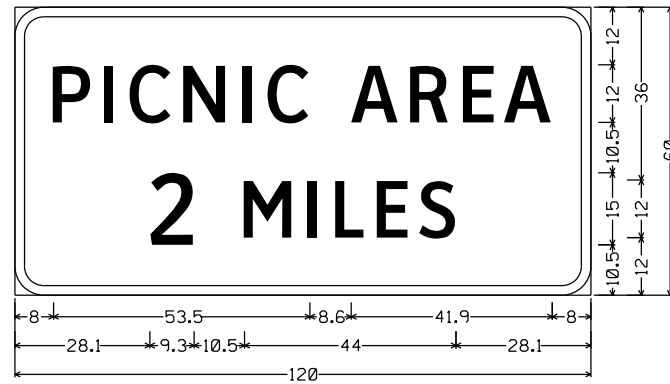


Texas Department of Transportation

IH-44, ETC.
LARGE OVERHEAD
SIGN DETAILS

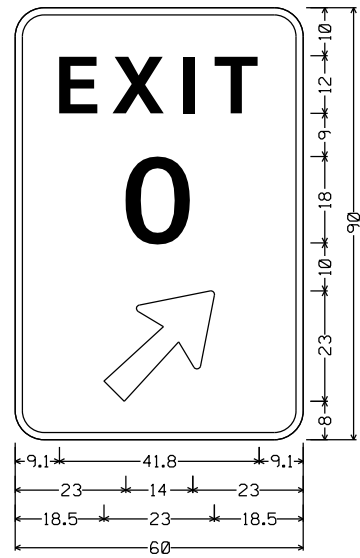
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CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	75	



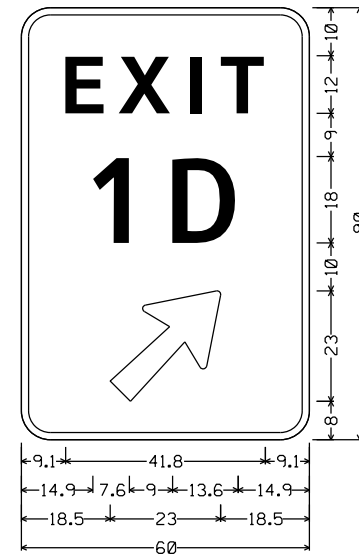
E21-4T_120x60;
2.0" Border, White on Blue;
"PICNIC AREA", ClearviewHwy-3-W; "2 MILES", ClearviewHwy-3-W;

SIGN #1: US287 SB
@ PICNIC AREA 2 MILES



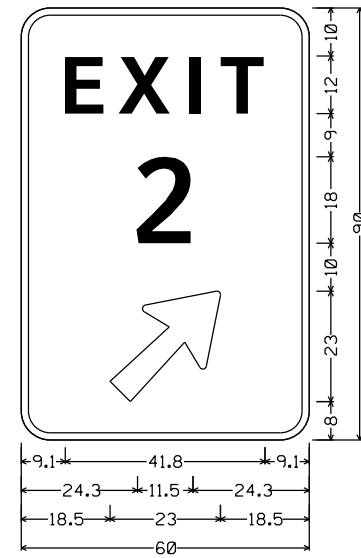
E5-1c_60x90;
6.0" Radius, 1.5" Border, White on Green;
"EXIT", ClearviewHwy-6-W;
"0", ClearviewHwy-4-W specified length;
Arrow A-2 - 29.3' 45³³/₆₄;

SIGN #33: US287 SB
@ EXIT 0



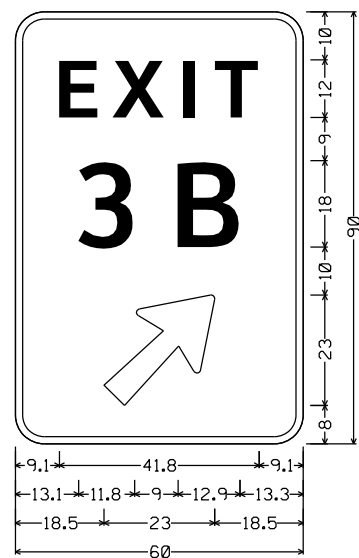
E5-1c_60x90;
6.0" Radius, 1.5" Border, White on Green;
"EXIT", ClearviewHwy-6-W;
"1 D", ClearviewHwy-4-W;
Arrow A-2 - 29.3' 45³³/₆₄;

SIGN #61: IH44 EB
@ EXIT 1 D



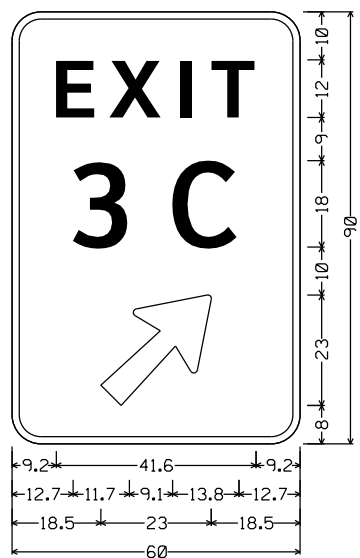
E5-1c_60x90;
6.0" Radius, 1.5" Border, White on Green;
"EXIT", ClearviewHwy-6-W;
"2", ClearviewHwy-4-W specified length;
Arrow A-2 - 29.3' 45³³/₆₄;

SIGN #63: IH44 EB
@ EXIT 2



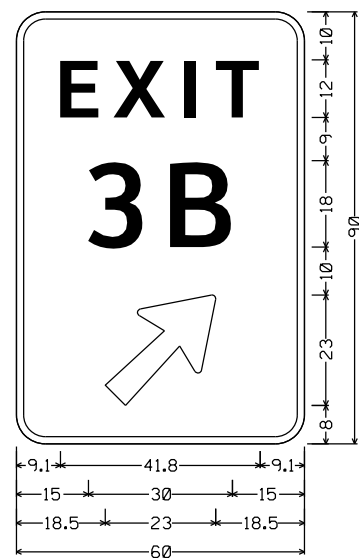
E5-1c_60x90;
6.0" Radius, 1.5" Border, White on Green;
"EXIT", ClearviewHwy-6-W;
"3 B", ClearviewHwy-4-W;
Arrow A-2 - 29.3' 45³³/₆₄;

SIGN #67: IH44 EB
@ EXIT 3 B



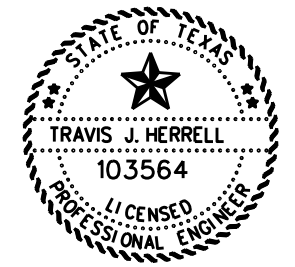
E5-1c_60x90;
6.0" Radius, 1.5" Border, White on Green;
"EXIT", ClearviewHwy-6-W;
"3 C", ClearviewHwy-4-W;
Arrow A-2 - 29.3' 45³³/₆₄;

SIGN #69: IH44 EB
@ EXIT 3 C



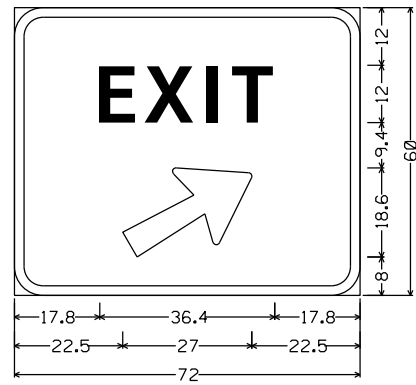
E5-1c_60x90;
6.0" Radius, 1.5" Border, White on Green;
"EXIT", ClearviewHwy-6-W;
"3B", ClearviewHwy-4-W specified length;
Arrow A-2 - 29.3' 45³³/₆₄;

SIGN #75: IH44 WB
@ EXIT 3 B

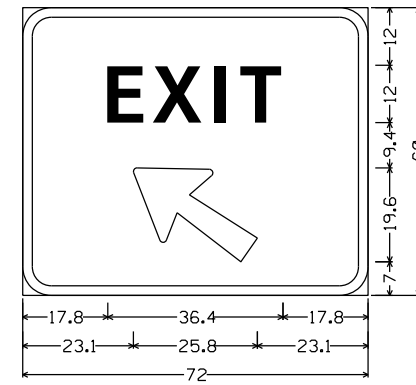


IH-44, ETC.
SMALL SIGN
DETAILS

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CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	76	



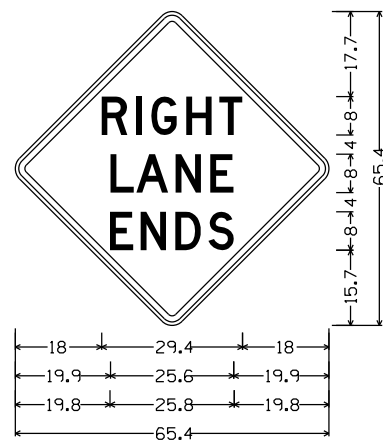
E5-1;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", ClearviewHwy-5-W-R;
Arrow A-2 - 29.3" 30³/₄;



E5-1;
6.0" Radius, 2.0" Border, White on Green;
"EXIT", ClearviewHwy-5-W-R;
Arrow A-2 - 29.3" 145³/₄;

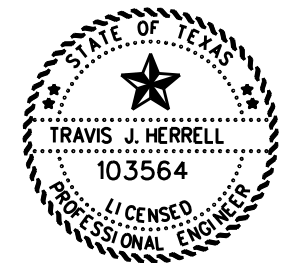
- SIGN #8: US287 SB @ US 70 EXIT
- SIGN #11: US287 SB @ FM 433 EXIT
- SIGN #12: US287 SB @ SL 404 EXIT
- SIGN #13: US287 SB @ SL 145 EXIT
- SIGN #14: US287 SB @ US 70 EXIT
- SIGN #15: US287 SB @ BU 287H EXIT
- SIGN #81: US287 NB @ BU 287H EXIT
- SIGN #82: US287 NB @ US 70 EXIT
- SIGN #83: US287 NB @ FM 1763 EXIT

- SIGN #23: US287 SB @ SS 325 EXIT



W9-1R_48x48;
48.0" across sides 3.0" Radius, 1.3" Border, 0.8" Indent, Black on Yellow;
"RIGHT", D; "LANE", D; "ENDS", D;

- SIGN #53: IH44 EB @ BRIDGE OVER 5TH ST

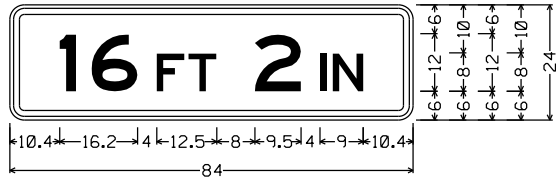


IH-44, ETC.
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DETAILS

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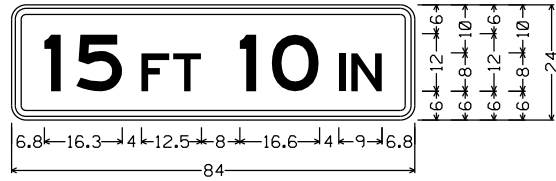
CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	77	

C/S: DW: C/S: D/S:



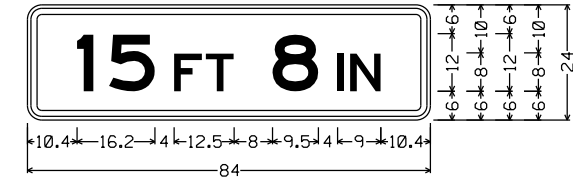
W12-2a-.84x24;
3.0" Radius, 1.3" Border, 0.8" Indent, Black on Yellow;
"16", E; "FT", E specified length; "2", E;
"IN", E specified length;

BMCS #1A: US287 SB @ FM 1739
BMCS #1B: US287 NB @ FM 1739
BMCS #3A: US287 SB @ FM 2384
BMCS #7: SH79 FR SB @ SH 79 SB



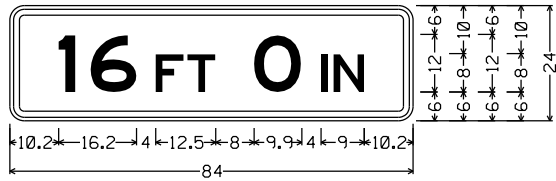
W12-2a-.84x24;
3.0" Radius, 1.3" Border, 0.8" Indent, Black on Yellow;
"15", E; "FT", E specified length; "10", E;
"IN", E specified length;

BMCS #2A: US287 SB
@ MIDWAY CHURCH RD



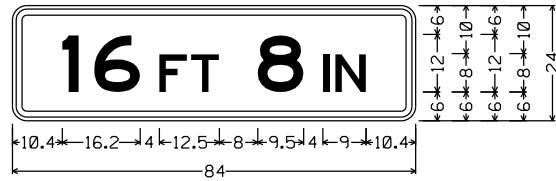
W12-2a-.84x24;
3.0" Radius, 1.3" Border, 0.8" Indent, Black on Yellow;
"15", E; "FT", E specified length; "8", E;
"IN", E specified length;

BMCS #2B: US287 NB
@ MIDWAY CHURCH RD



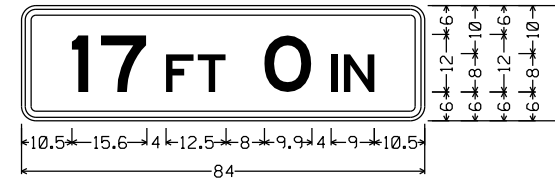
W12-2a-.84x24;
3.0" Radius, 1.3" Border, 0.8" Indent, Black on Yellow;
"16", E; "FT", E specified length; "0", E;
"IN", E specified length;

BMCS #3B: US287 NB
@ FM 2384



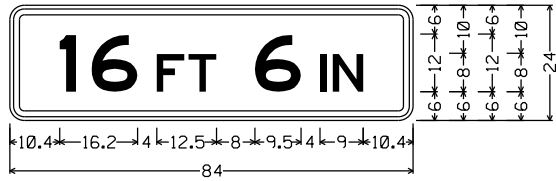
W12-2a-.84x24;
3.0" Radius, 1.3" Border, 0.8" Indent, Black on Yellow;
"16", E; "FT", E specified length; "8", E;
"IN", E specified length;

BMCS #4A: US287 SB
@ HARMONY RD



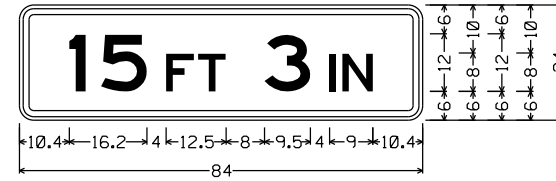
W12-2a-.84x24;
3.0" Radius, 1.3" Border, 0.8" Indent, Black on Yellow;
"17", E; "FT", E specified length; "0", E;
"IN", E specified length;

BMCS #4B: US287 NB
@ HARMONY RD



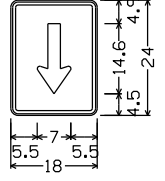
W12-2a-.84x24;
3.0" Radius, 1.3" Border, 0.8" Indent, Black on Yellow;
"16", E; "FT", E specified length; "6", E;
"IN", E specified length;

BMCS #5A: IH44 WB
@ US287 NB

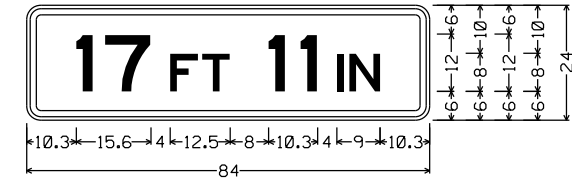


W12-2a-.84x24;
3.0" Radius, 1.3" Border, 0.8" Indent, Black on Yellow;
"15", E; "FT", E specified length; "3", E;
"IN", E specified length;

BMCS #5B: IH44 WB
@ US287 NB

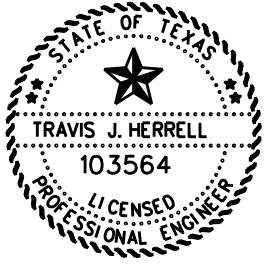


W12-3TP-.18x24;
1.5" Radius, 0.6" Border, 0.4" Indent, Black on Yellow;
Arrow W12-3TP;



W12-2a-.84x24;
3.0" Radius, 1.3" Border, 0.8" Indent, Black on Yellow;
"17", E; "FT", E specified length; "11", E;
"IN", E specified length;

BMCS #6: US82 WB
MOUNT TO US82 EB TO
US287 NB FLYOVER BRIDGE



Texas Department of Transportation

IH-44, ETC.

SMALL SIGN
DETAILS

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CONT	SECT	JOB	HIGHWAY
6428	42	001	IH-44, ETC.
DIST	COUNTY	SHEET NO.	
WFS	WICHITA, ETC.	78	

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DATE: 4/19/2024 1:20:02 PM
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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))
 10BWC • 10 BWC 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)

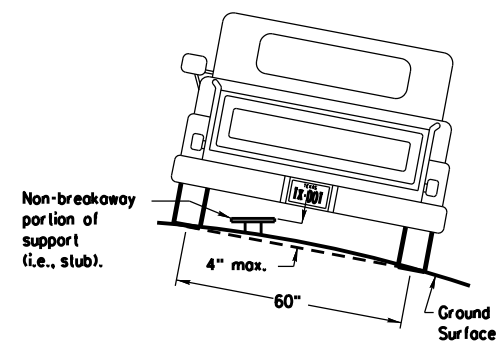
Anchor Type

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

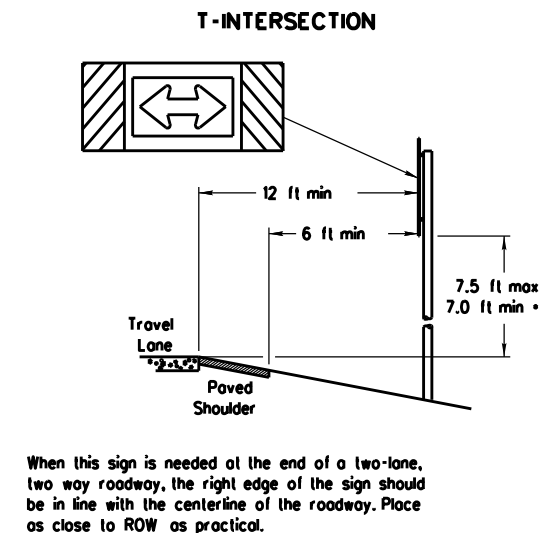
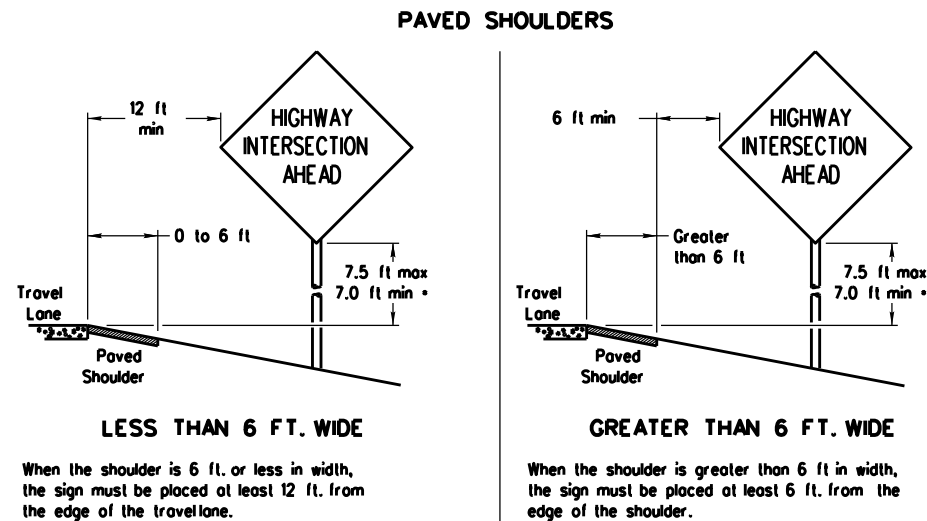
P • Prefab. "Plain" (see SMD(SLIP-1) to (SLIP-3), (TWT), (FRP))
 T • Prefab. "T" (see SMD(SLIP-1) to (SLIP-3), (TWT))
 U • Prefab. "U" (see SMD(SLIP-1) to (SLIP-3))
 IF REQUIRED
 EXT or 2EXT • Number of Extensions (see SMD(SLIP-1) to (SLIP-3), (TWT))
 BM • Extruded Wind Beam (see SMD(SLIP-1) to (SLIP-3))
 WC • 1.12 "/ft Wing Channel (see SMD(SLIP-1) to (SLIP-3))
 EXAL • Extruded Aluminum Sign Panels (see SMD(SLIP-3))

REQUIRED CLEARANCE FOR BREAKAWAY SUPPORT

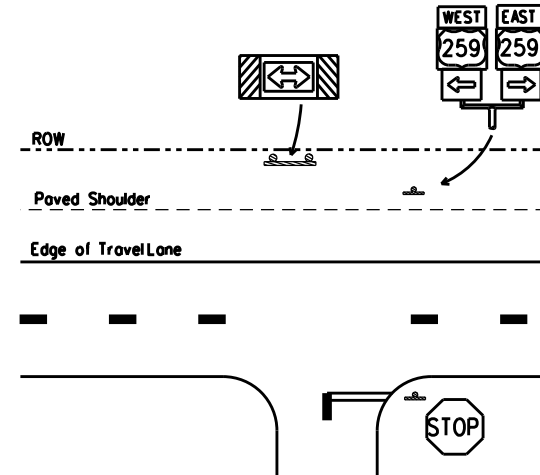
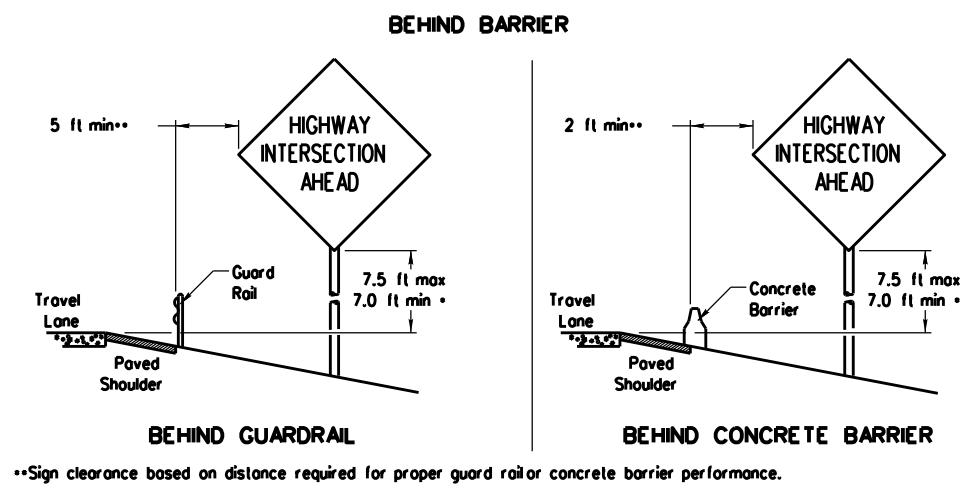
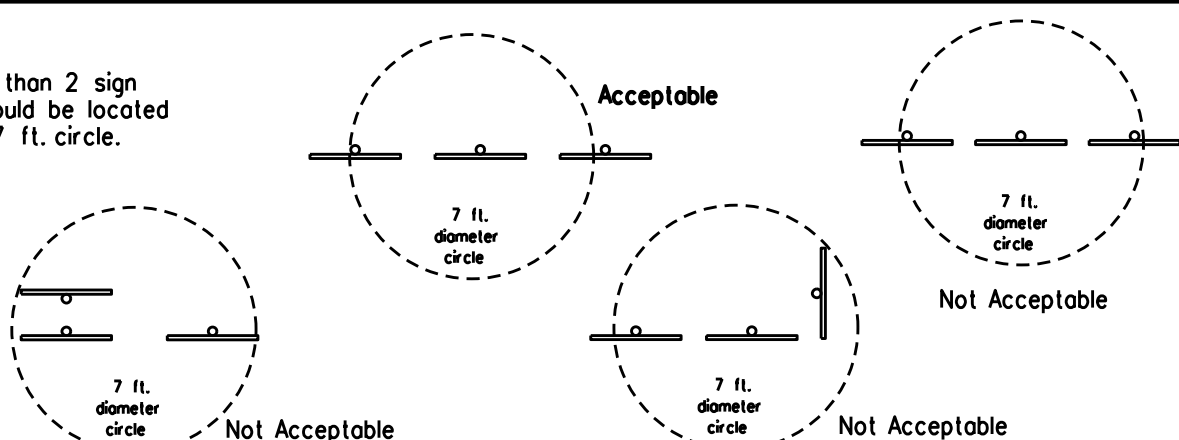


To avoid vehicle undercarriage snagging, any substantial remains of a breakaway support, when it is broken away, should not project more than 4 inches above a 60-inch chord (i.e., typical space between wheelpaths).

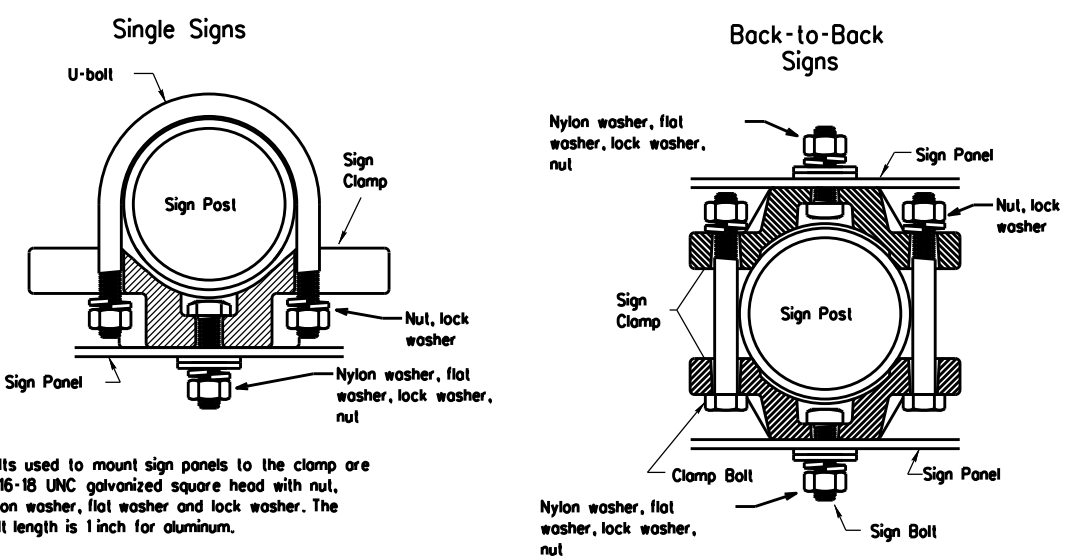
SIGN LOCATION



No more than 2 sign posts should be located within a 7 ft. circle.



TYPICAL SIGN ATTACHMENT DETAIL



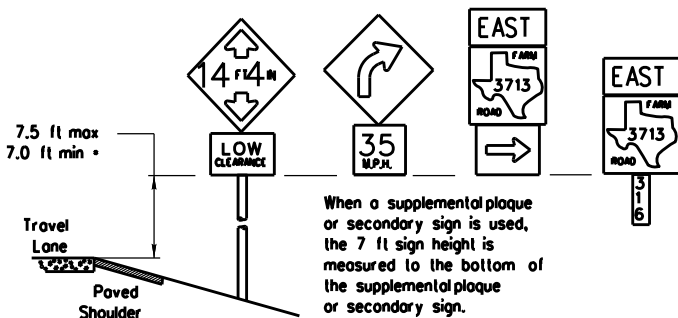
Bolts used to mount sign panels to the clamp are 5/16-18 UNC galvanized square head with nut, nylon washer, flat washer and lock washer. The bolt length is 1 inch for aluminum.

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.

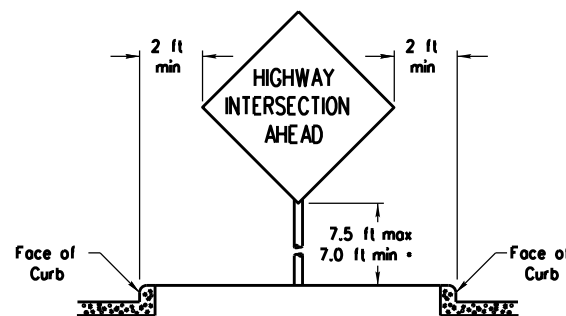
Pipe Diameter	Approximate Bolt Length	
	Specific Clamp	Universal Clamp
2" nominal	3"	3 or 3 1/2"
2 1/2" nominal	3 or 3 1/2"	3 1/2 or 4"
3" nominal	3 1/2 or 4"	4 1/2"

SIGNS WITH PLAQUES

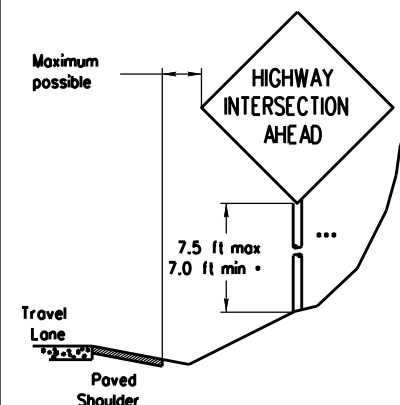


When a supplemental plaque or secondary sign is used, the 7 ft sign height is measured to the bottom of the supplemental plaque or secondary sign.

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

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SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS GENERAL NOTES & DETAILS

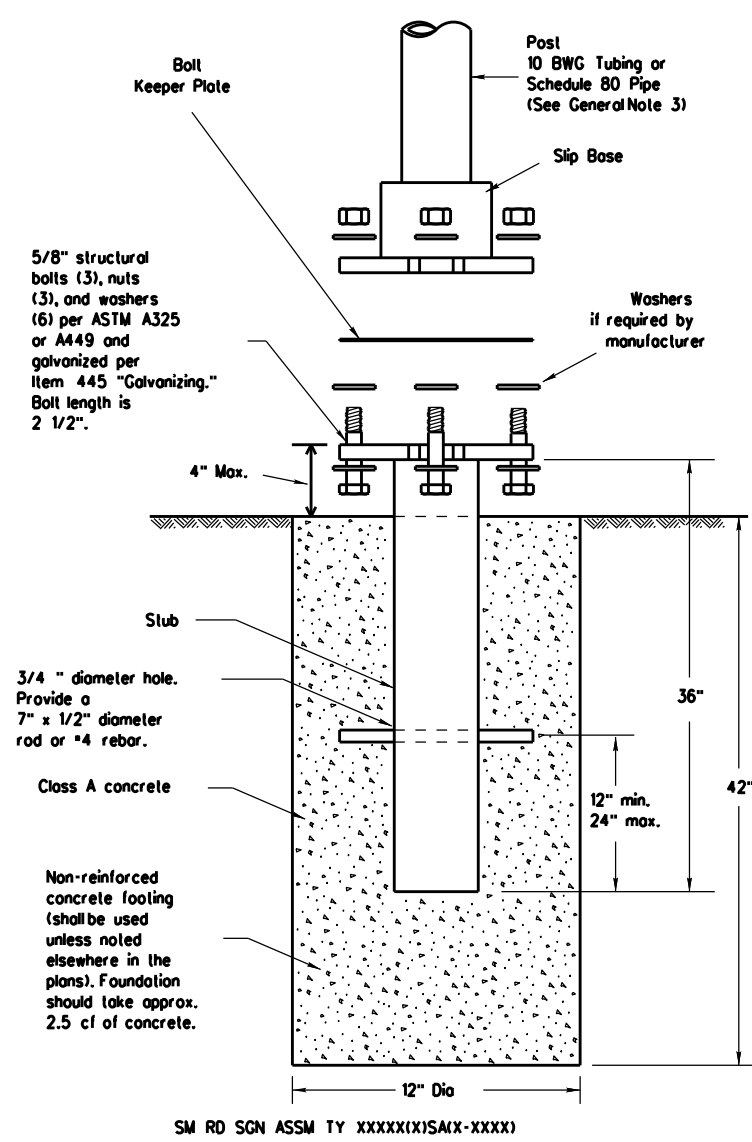
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		6428/42	001	IH-44, ETC.
		DIST	COUNTY	SHEET NO.
		WFS	WICHITA, ETC.	79

TRIANGULAR SLIPBASE INSTALLATION GENERAL REQUIREMENTS

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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.

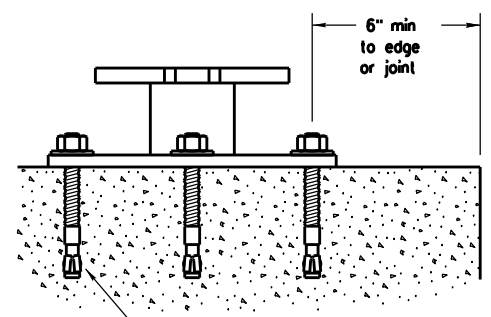
GENERAL NOTES:

- Slip base shall be permanently marked to indicate manufacturer. Method, design, and location of marking are subject to approval of the TxDOT Traffic Standards Engineer.
- Material used 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 pre-coated 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
- 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>
- Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.

ASSEMBLY PROCEDURE

- Foundation**
- 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.
 - 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.
 - 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.
 - Plumb the stub. Allow a minimum of 4 days to set, unless otherwise directed by the Engineer.
 - The triangular slipbase system is multidirectional and is designed to release when struck from any direction.
- Support**
- 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.
 - 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



5/8" diameter Concrete Anchor - 8 places (embed a minimum of 5 1/2" and torque to min. of 50 ft-lbs). Anchor may be expansion or adhesive type.

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, "Epoxyes 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.

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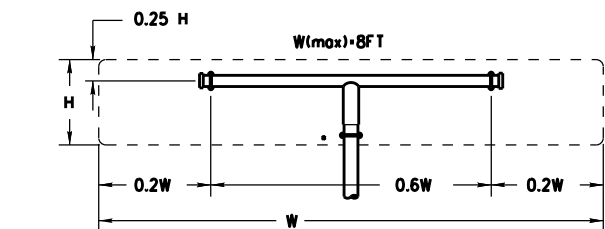
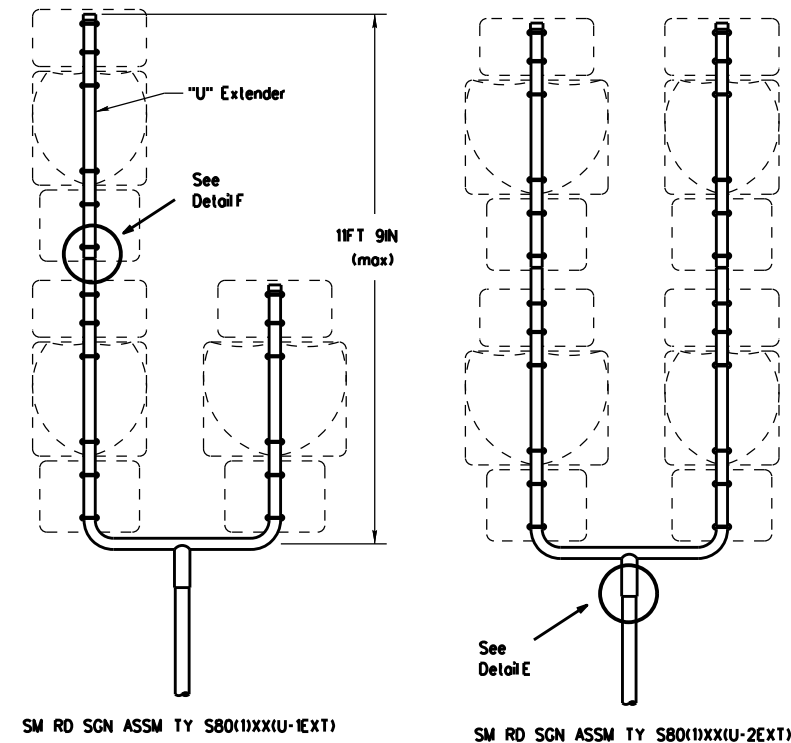
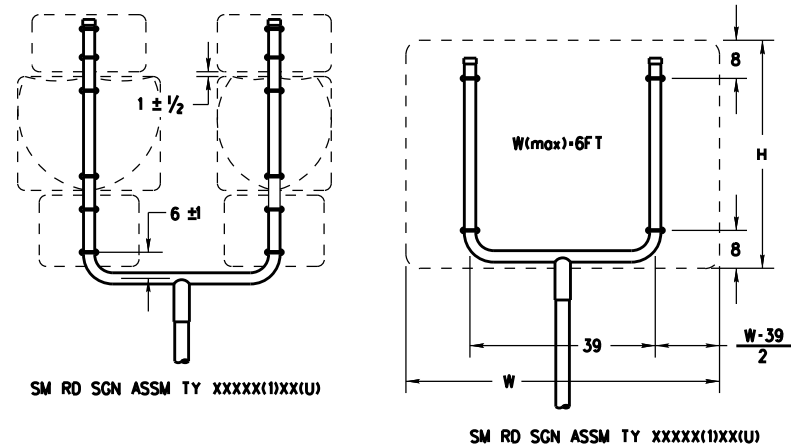
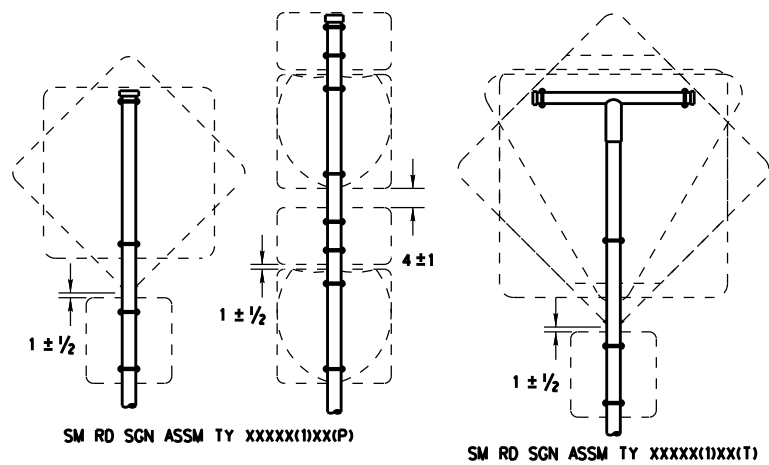
SIGN MOUNTING DETAILS
SMALL ROADSIDE SIGNS
TRIANGULAR SLIPBASE SYSTEM

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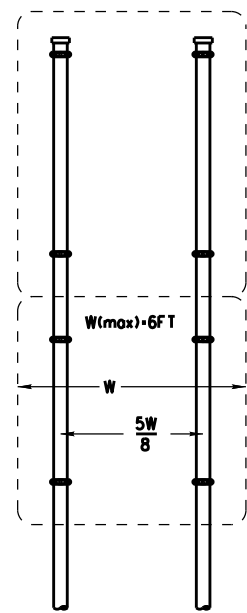
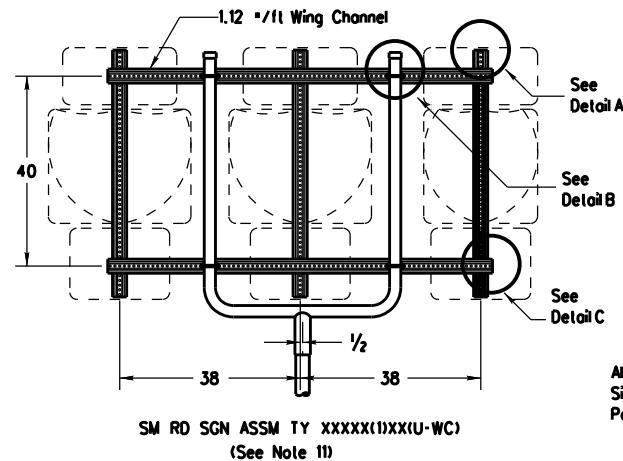
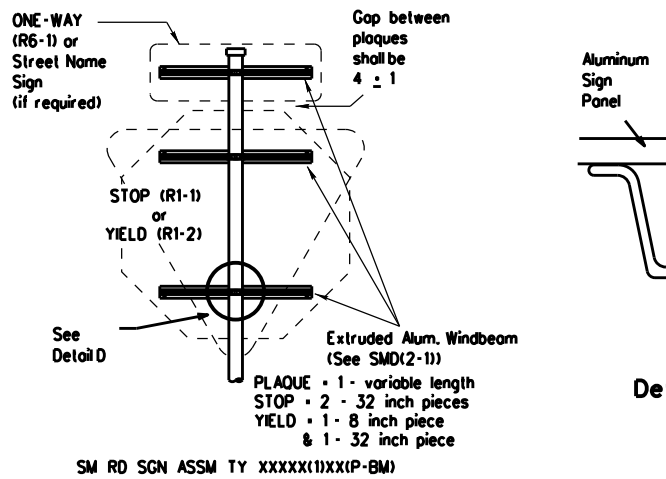
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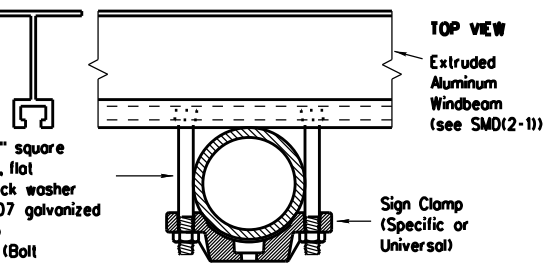


All dimensions are in english unless detailed otherwise.



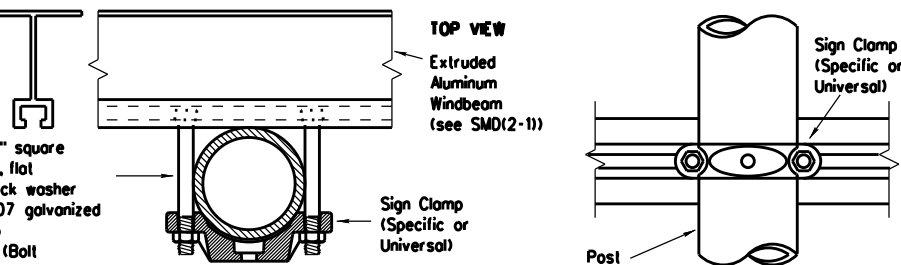
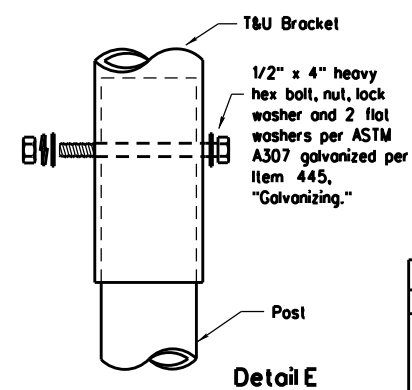
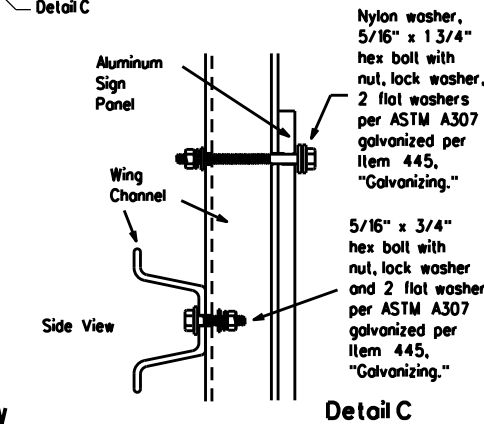
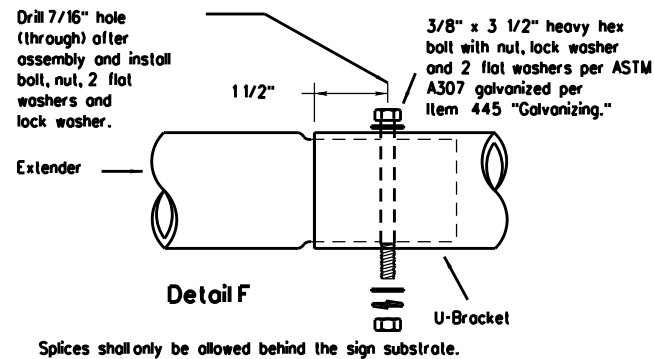
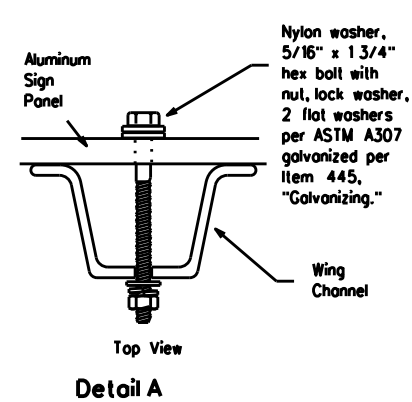
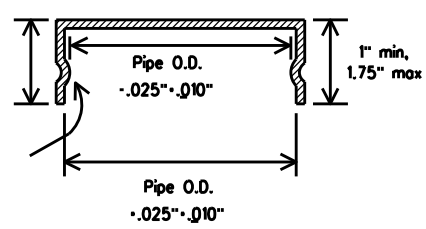
SIDE VIEW

3/8" x 3 1/2" square head bolt, nut, flat washer and lock washer per ASTM A307 galvanized per Item 445 "Galvanizing." (Bolt length may vary depending on sign clamp type and pipe diameter.)



FRICION CAP DETAIL

±.05" Skirt Variation Depth
 Rolled Crimp to engage pipe O.D.



Friction caps may be manufactured from hot rolled or cold rolled steelsheets. 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:

- | SIGN SUPPORT | OF POSTS | MAX. SIGN AREA |
|--------------|----------|----------------|
| 10 BWC | 1 | 16 SF |
| 10 BWC | 2 | 32 SF |
| Sch 80 | 1 | 32 SF |
| Sch 80 | 2 | 64 SF |
- The Engineer may require that a Schedule 80 post be used in place of a 10 BWC where a sign height is abnormally high due to a fill slope.
- Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.
- 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.
- Signs that require specific supports due to reasons in addition to windloading are indicated on the "REQUIRED SUPPORT" table on this sheet.
- 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.
- 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.
- Wing channel shall meet ASTM A 1011 SS Gr 50 and be galvanized per ASTM A 123.
- 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."
- Additional route markers may be added vertically, provided the total sign area does not exceed the maximum allowable amount per Note 1.
- 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.
- Post open ends shall be fitted with Friction Caps.
- Sign blanks shall be the sizes and shapes shown on the plans.

REQUIRED SUPPORT	
SIGN DESCRIPTION	SUPPORT
48-inch STOP sign (R1-1)	TY 10BWC(1)XX(T) TY 10BWC(1)XX(P-BM)
60-inch YIELD sign (R1-2)	TY 10BWC(1)XX(T) TY 10BWC(1)XX(P-BM)
48x16-inch ONE-WAY sign (R6-1)	TY 10BWC(1)XX(T) TY 10BWC(1)XX(P-BM)
36x48, 48x36, and 48x48-inch signs	TY 10BWC(1)XX(T)
48x60-inch signs	TY S80(1)XX(T)
48x48-inch signs (diamond or square)	TY 10BWC(1)XX(T)
48x60-inch signs	TY S80(1)XX(T)
48-inch Advance School X-ing sign (S1-1)	TY 10BWC(1)XX(T)
48-inch School X-ing sign (S2-1)	TY 10BWC(1)XX(T)
Large Arrow sign (W1-6 & W1-7)	TY 10BWC(1)XX(T)

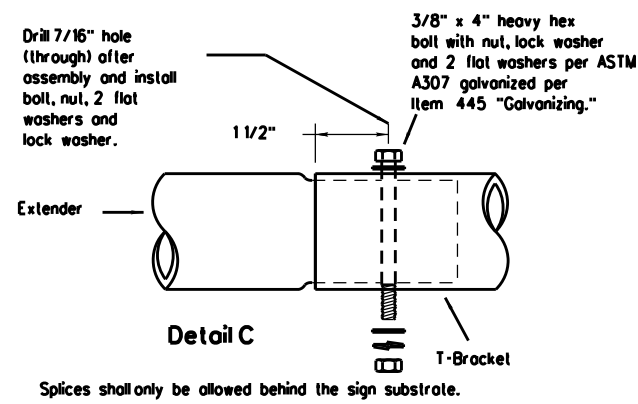
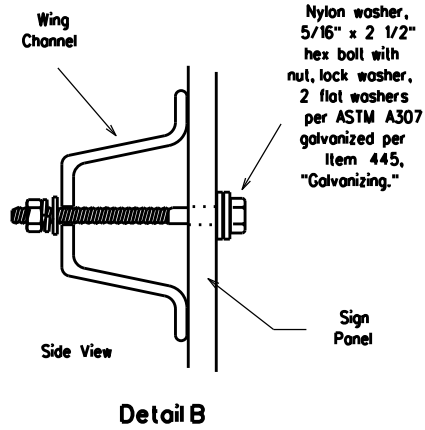
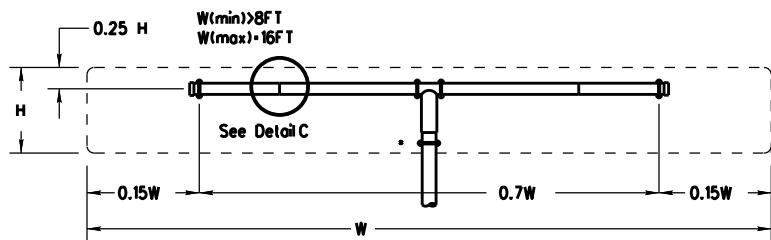
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SIGN MOUNTING DETAILS
 SMALL ROADSIDE SIGNS
 TRIANGULAR SLIPBASE SYSTEM
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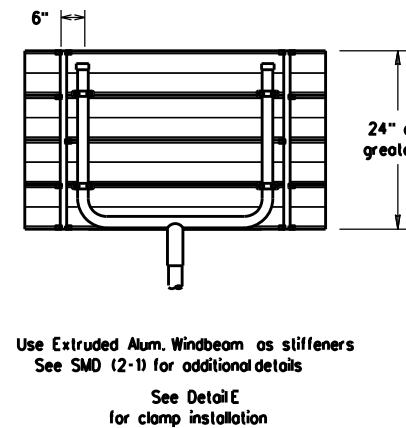
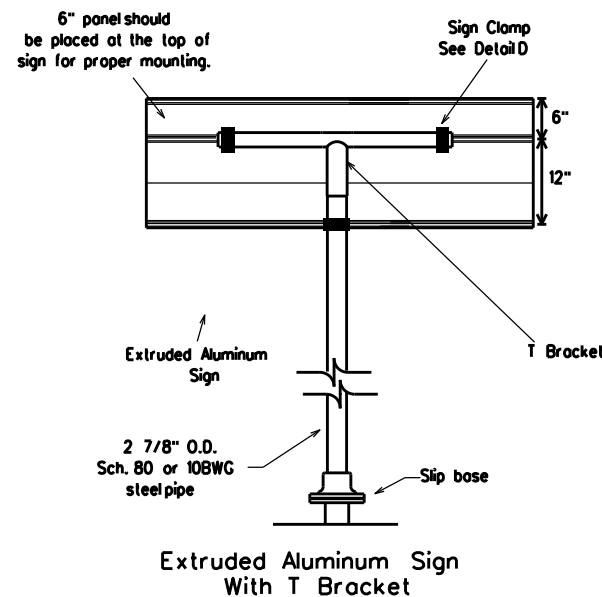
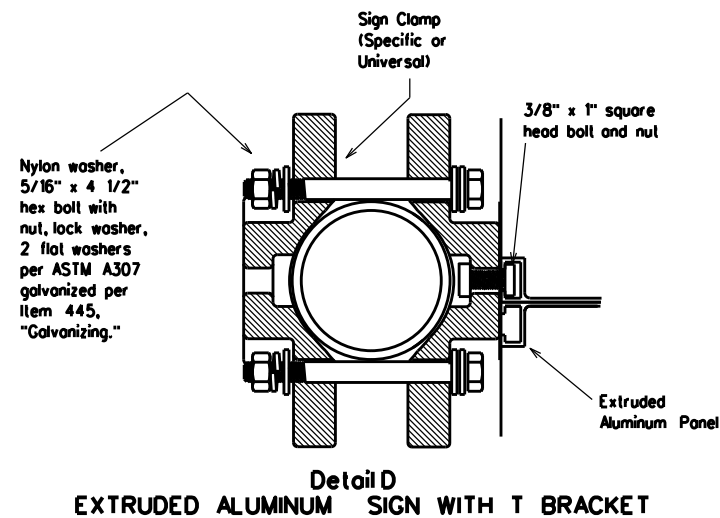
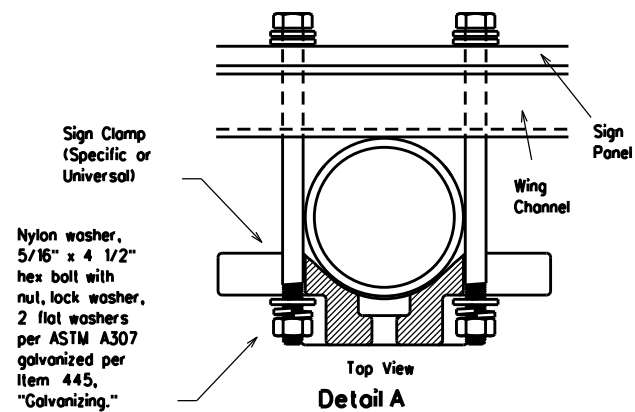
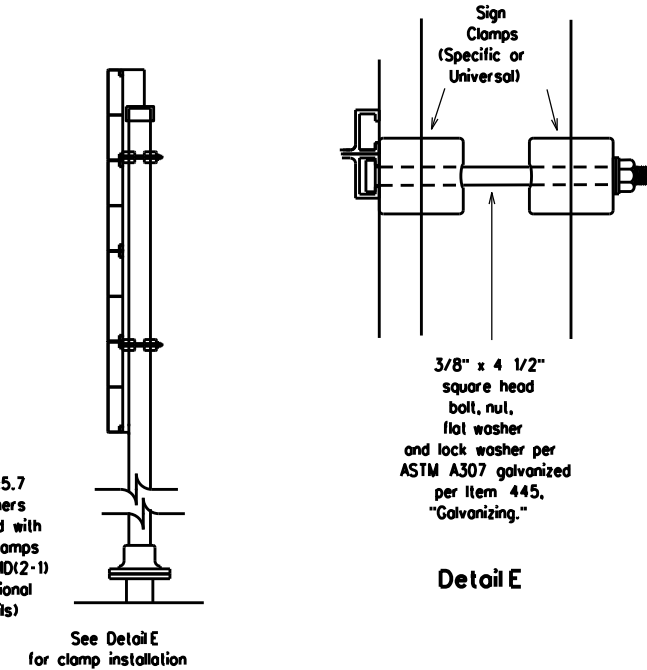
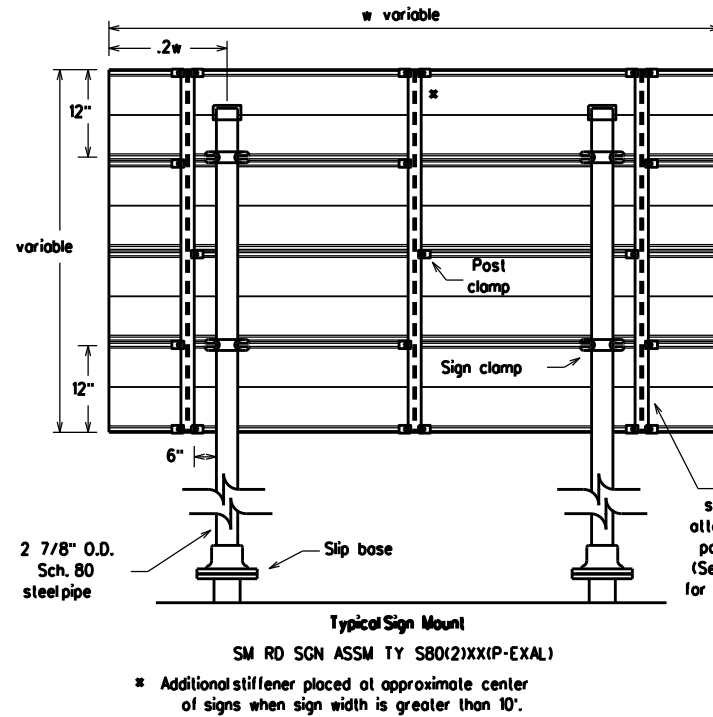
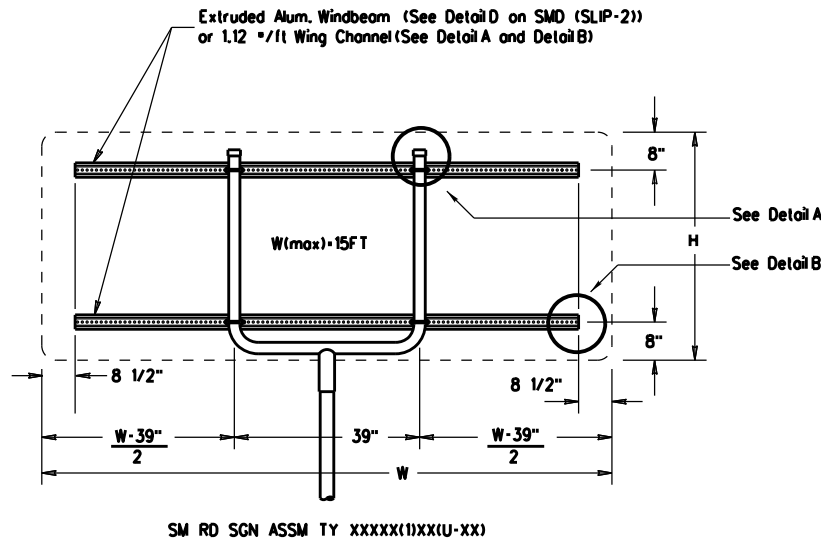
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GENERAL NOTES:

- | SIGN SUPPORT | # OF POSTS | MAX. SIGN AREA |
|--------------|------------|----------------|
| 10 BWC | 1 | 16 SF |
| 10 BWC | 2 | 32 SF |
| Sch 80 | 1 | 32 SF |
| Sch 80 | 2 | 64 SF |
- The Engineer may require that a Schedule 80 post be used in place of a 10 BWC where a sign height is abnormally high due to a fill slope.
- Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.
- 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.
- Signs that require specific supports due to reasons in addition to windloading are indicated on the "REQUIRED SUPPORT" table on this sheet.
- 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.
- 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.
- Wing channel shall meet ASTM A 1011 SS Gr 50 and be galvanized per ASTM A 123.
- 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."
- Sign blanks shall be the sizes and shapes shown on the plans.
- 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.
- Post open ends shall be fitted with Friction Caps.



REQUIRED SUPPORT		
SIGN DESCRIPTION	SUPPORT	
Regulatory	48-inch STOP sign (R1-1)	TY 10BWC(1)XX(T) TY 10BWC(1)XX(IP-BM)
	60-inch YIELD sign (R1-2)	TY 10BWC(1)XX(T) TY 10BWC(1)XX(IP-BM)
	48x16-inch ONE-WAY sign (R6-1)	TY 10BWC(1)XX(T) TY 10BWC(1)XX(IP-BM)
Warning	36x48, 48x36, and 48x48-inch signs	TY 10BWC(1)XX(T)
	48x60-inch signs	TY S80(1)XX(T)
	48x48-inch signs (diamond or square)	TY 10BWC(1)XX(T)
	48x60-inch signs	TY S80(1)XX(T)
	48-inch Advance School X-ing sign (S1-1)	TY 10BWC(1)XX(T)
48-inch School X-ing sign (S2-1)	TY 10BWC(1)XX(T)	
Large Arrow sign (W1-6 & W1-7)	TY 10BWC(1)XX(T)	

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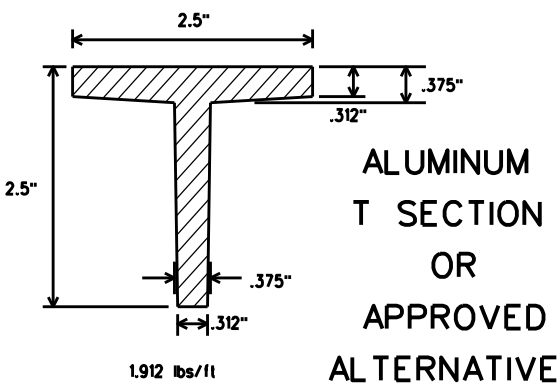
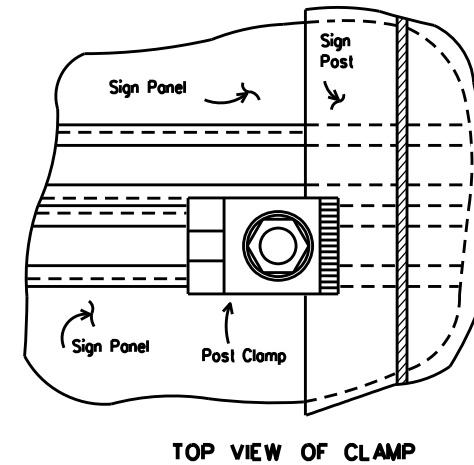
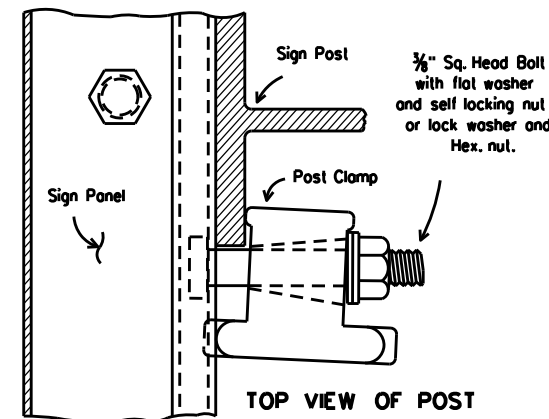
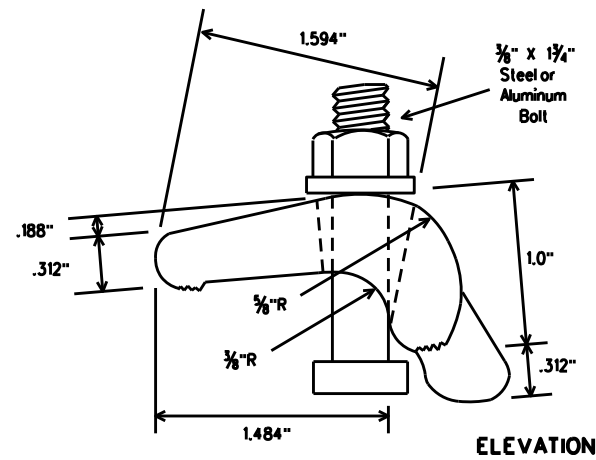
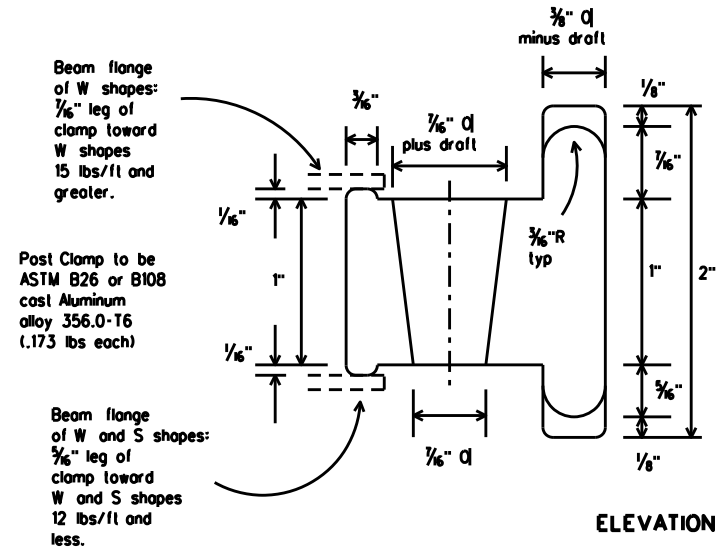
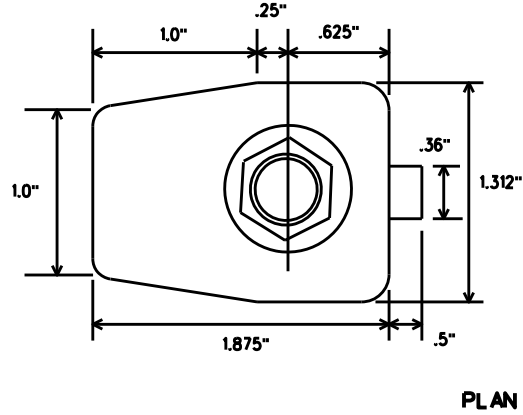
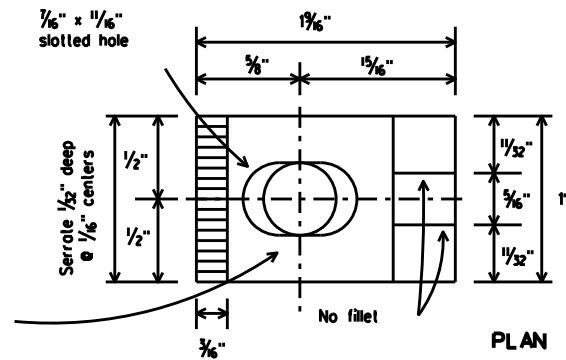
SIGN MOUNTING DETAILS
 SMALL ROADSIDE SIGNS
 TRIANGULAR SLIPBASE SYSTEM
 SMD(SLIP-3)-08

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9-08 REVISIONS	CONT	SECT	JOB	HIGHWAY
	6428	42	001	IH-44, ETC.
	DIST	COUNTY	SHEET NO.	
	WFS	WICHITA, ETC.	82	

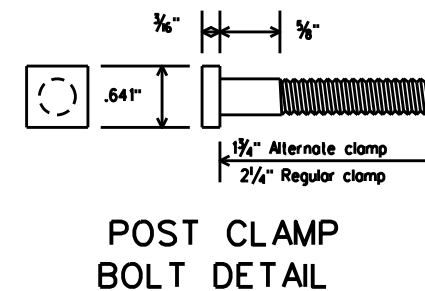
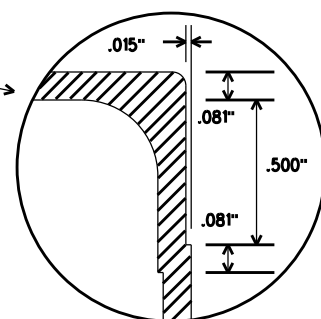
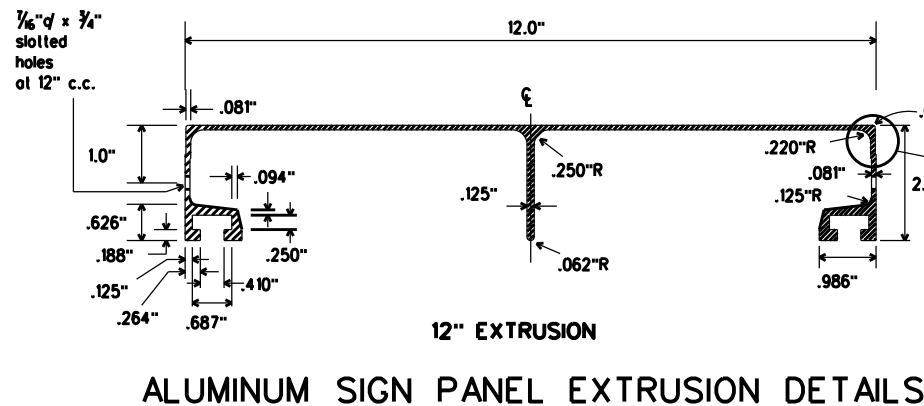
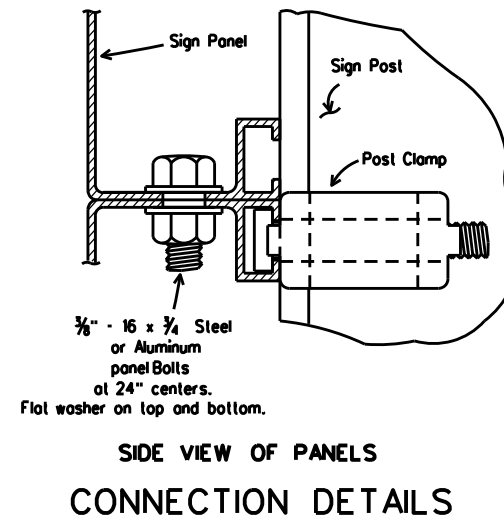
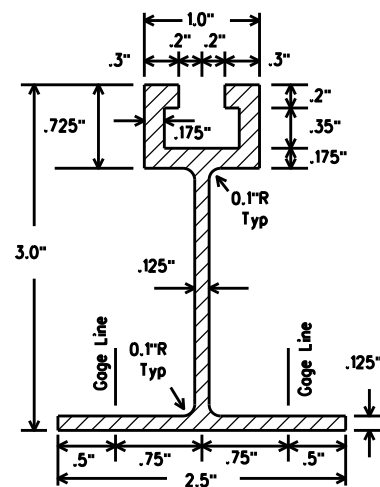
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NOTE: centerline of hole for 3/8" diameter squarehead bolt x 2 1/4" long with a flat washer and self-locking nut, or lock washer and hex. nut. Bolt head dimensions shall be in accordance with ANSIB 18.2.1 as referred to in the ANS Manual of steel construction. Bolt assembly shall be galvanized.



WINDBEAM CROSS SECTION
 Windbeam to be extruded aluminum (1.175 lbs/ft) or approved alternative



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-bearing structures per Item 442, "Metal For Structures."
4. For fiberglass substrate connection details, see manufacturer's recommendations.

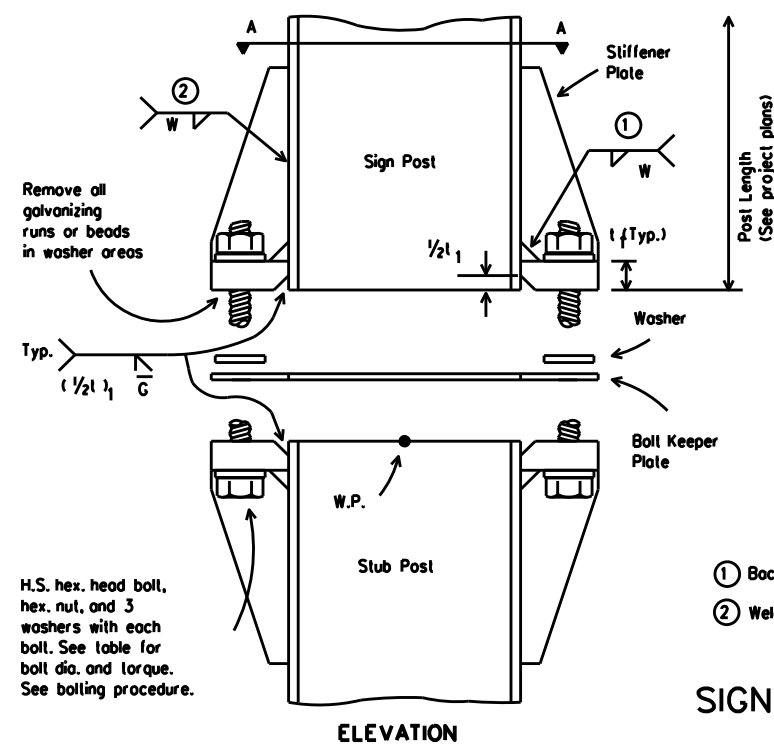
Texas Department of Transportation
 Traffic Operations Division

SIGN MOUNTING DETAILS-
 EXTRUDED ALUMINUM
 SIGN PANELS & HARDWARE
 SMD(2-1)-08

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9-08	REVISIONS	CONT	SECT	JOB
		6428	42	001
		DIST	COUNTY	HIGHWAY
		WFS	WICHITA, ETC.	IH-44, ETC.
				SHEET NO.
				83

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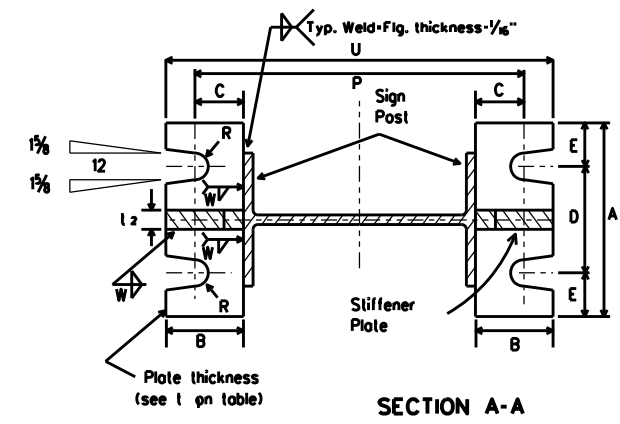


ELEVATION

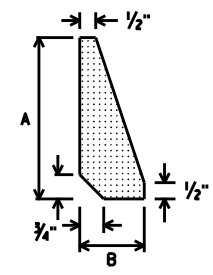
- BOLTING PROCEDURE FOR ASSEMBLY OF BASE CONNECTION:**
- Assemble sign post, BOLT KEEPER PLATE and stub post with bolts and three flat washers per bolt as shown.
 - Shim as required to plumb post.
 - Tighten all bolts the maximum possible with a 12 to 15 inch wrench to clean bolt threads and to bed washers and shims.
 - Loosen each bolt in sequence and retighten bolts in a systematic order to the prescribed torque. Do not over-tighten.
 - To prevent nut loosening, burr threads of bolt at junction with nut using a center punch.

- Back up weld to be made before installing stiffener plate
- Weld W may be continued across clips to seal joint

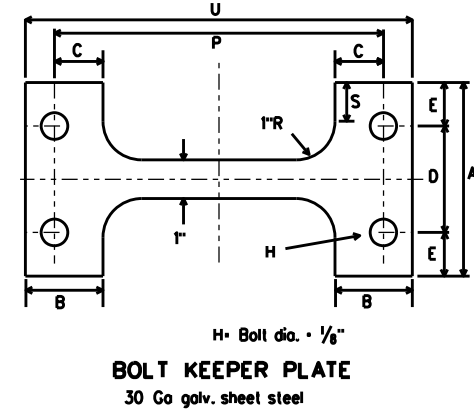
SIGN POST AND STUB POST
(For W Shapes)



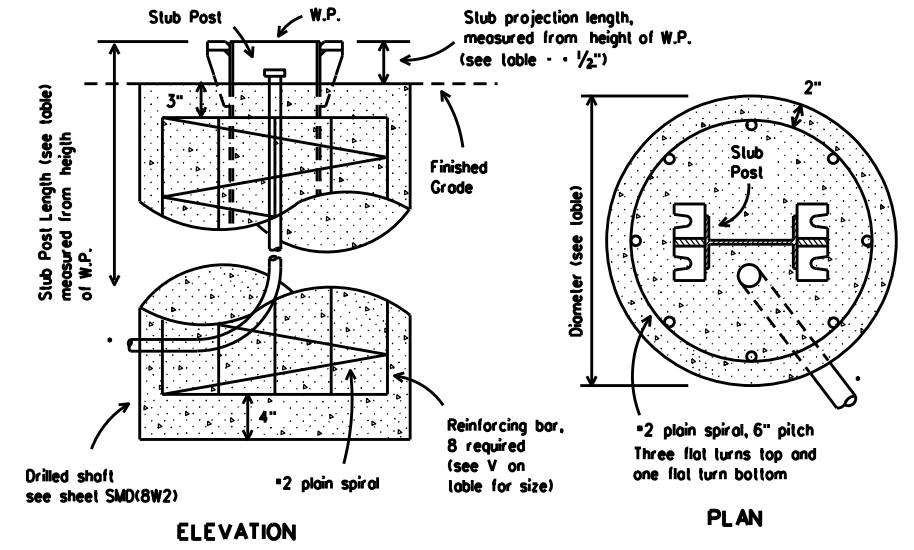
SECTION A-A



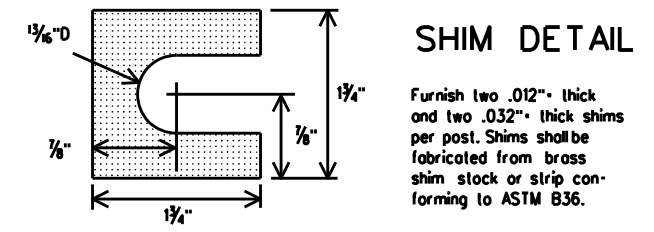
STIFFENER PLATE DETAIL
 Steel Plate (thickness t) 2
 (See table for dimensions)



BOLT KEEPER PLATE
30 Ga galv. sheet steel

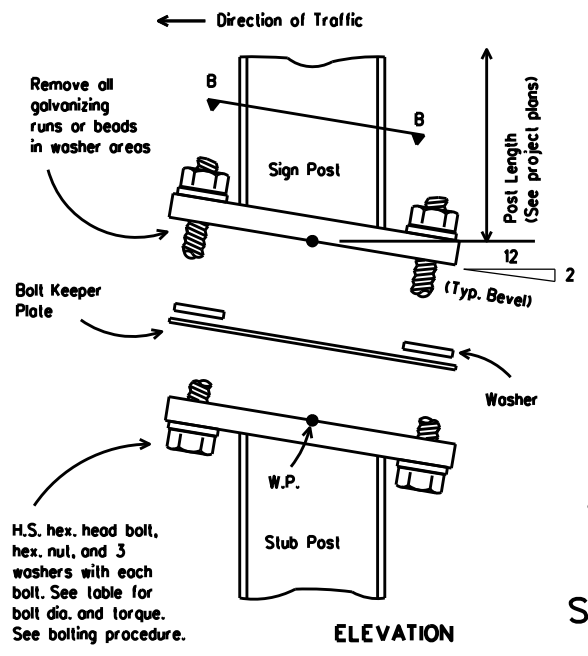


FOUNDATION DETAIL
 *Note: For signs with electrical apparatus, see ED(10) for conduit required in foundation.

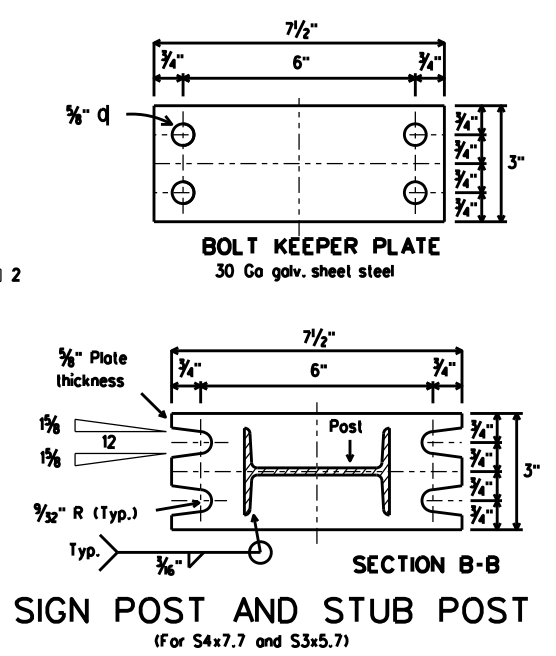


SHIM DETAIL
 Furnish two .012\"/>

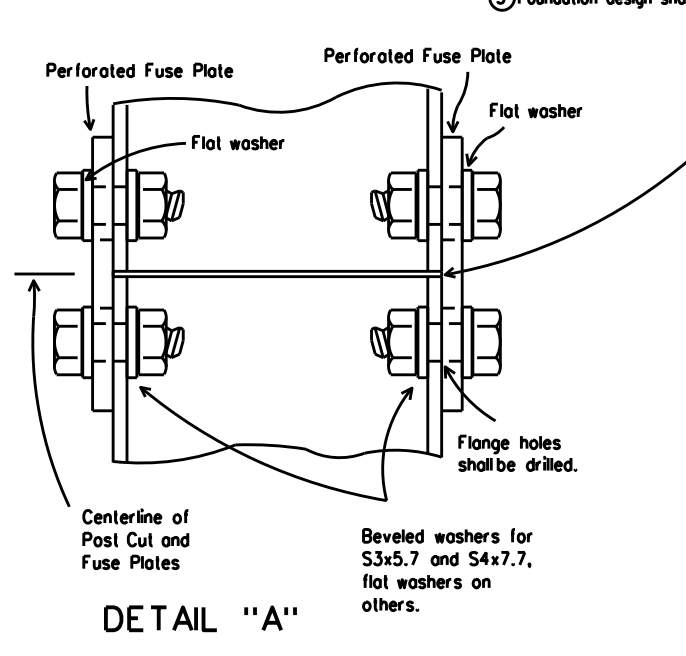
Dimensions Post Size	Base Connection Data Table										Perforated Fuse Plate Data Table							Bolt Keeper Data			Foundation Data										
	Bolt Size & Torque	A	B	C	D	E	t ₁	t ₂	W	R	F	G	J	K	M	d ₁	d ₂	t ₃	Bolt Dia.	Wt. (eo.) (lbs.)	Bolt length	P	S	U	Stub length	Stub projection	Dr. Shall diameter	Bar V Size			
W6x9	5/8" d x 2 3/4"										4 1/4"	2"	4"	2 1/4"	1"	9/16"	3/4"	1/4"	1/2"	1.01	1 1/2"	8 3/8"		9 7/8"	2'-0"	3"		#5			
W6x12	440-450 inch pounds	5"	2"	1 1/4"	2 3/4"	1 1/8"	3/4"	1/2"	1 1/4"	1 1/32"	5"	2 1/2"	6"	3 1/2"	1 1/2"	1 1/16"	1 1/4"	3/8"	5/8"	2.51	2 1/4"	8 1/2"	1"	10"	2'-0"	3"		#5			
W6x15	36-38 foot pounds										5"	2 1/2"	5 1/4"	2 3/4"	1 1/4"	1 1/16"	1 1/16"	3/8"	5/8"	2.26	2 1/4"	10 5/8"		12 1/8"	2'-6"	3"		#6			
W8x18											5 1/2"	2 1/2"	5 1/4"	2 3/4"	1 1/4"	1 3/16"	1"	1/2"	3/4"	3.35	2 1/4"	11"		12 3/4"	3'-0"	2 1/2"		#7			
W8x21	3/4" d x 3 1/2"																												#8		
W10x22	740-750 inch pounds	6"	2 1/4"	1 3/8"	3 1/2"	1 1/4"	1"	3/4"	5/16"	1 3/32"	6"	3"	5 3/4"	2 3/4"	1 3/8"	1 3/16"	1 1/8"	1/2"	3/4"	4.03	2 1/4"	12 7/8"	1 1/2"	14 5/8"	3'-0"	2 1/2"		#9			
W10x26	62-63 foot pounds										6"	3"	6 1/2"	3 1/2"	1 5/8"	1 3/16"	1 5/16"	1/2"	3/4"	4.47	2 1/4"	13 1/8"		14 7/8"	3'-0"	2 1/2"		#10			
W12x26											6"	3"	6 1/2"	3 1/2"	1 5/8"	1 3/16"	1 5/16"	1/2"	3/4"	4.47	2 1/4"	15"		16 3/4"	3'-0"	2 1/2"		#11			
S3x5.7	1/2" d x 2 1/2"	See Detail Below										3 3/4"	1 1/2"	2 5/8"	1 1/2"	5/8"	9/16"	3/8"	1/4"	1/2"	0.60	1 1/2"	See Detail Below			3'-3 1/2"	3 1/2"	12"	Non-reinforced ③		
S4x7.7	440-450 inch pounds	See Detail Below																													



ELEVATION



SIGN POST AND STUB POST
(For S4x7.7 and S3x5.7)



DETAIL "A"

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.

Texas Department of Transportation
 Traffic Operations Division

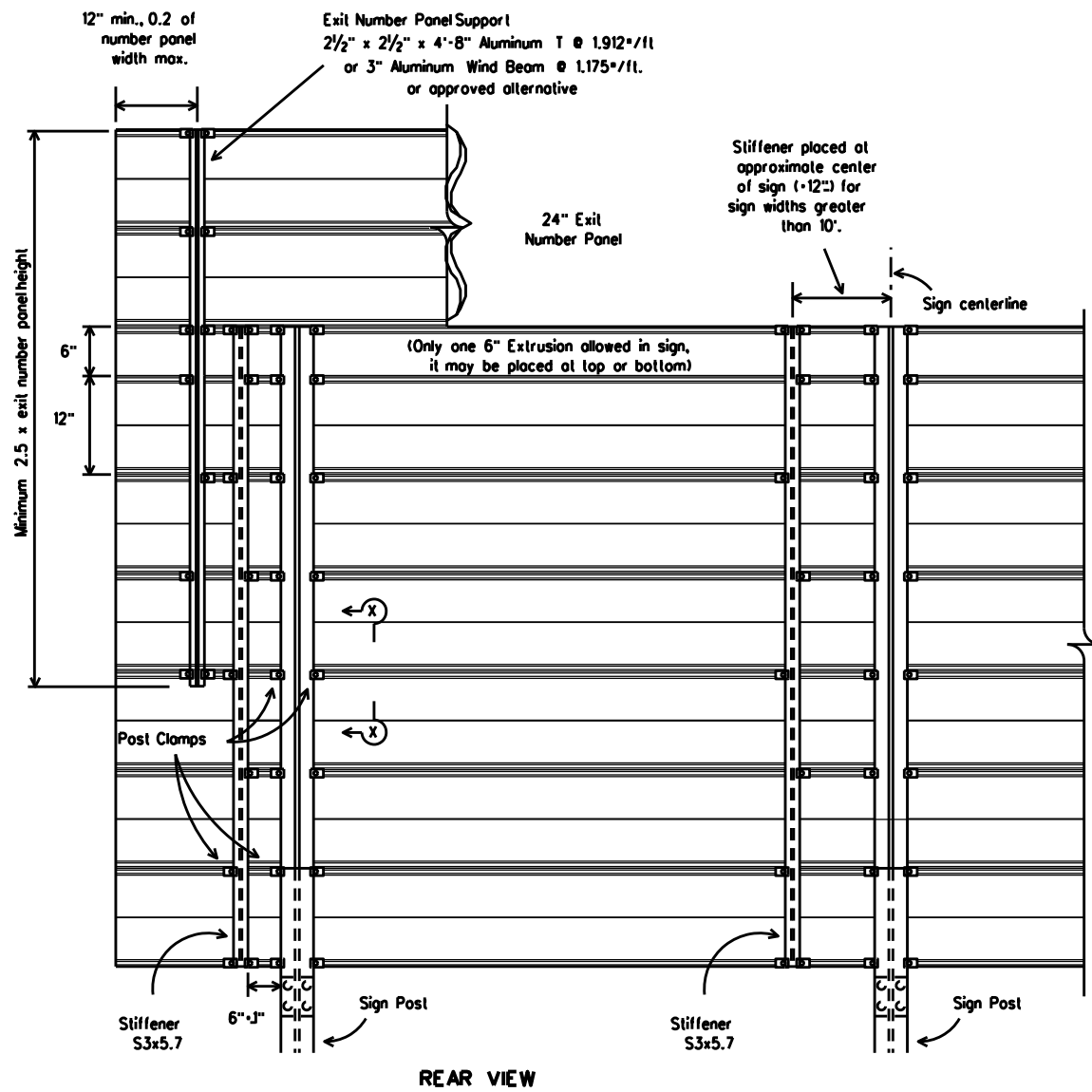
**SIGN MOUNTING DETAILS-
 LARGE ROADSIDE SIGNS
 FOUNDATION & STUB**

SMD(2-2)-08

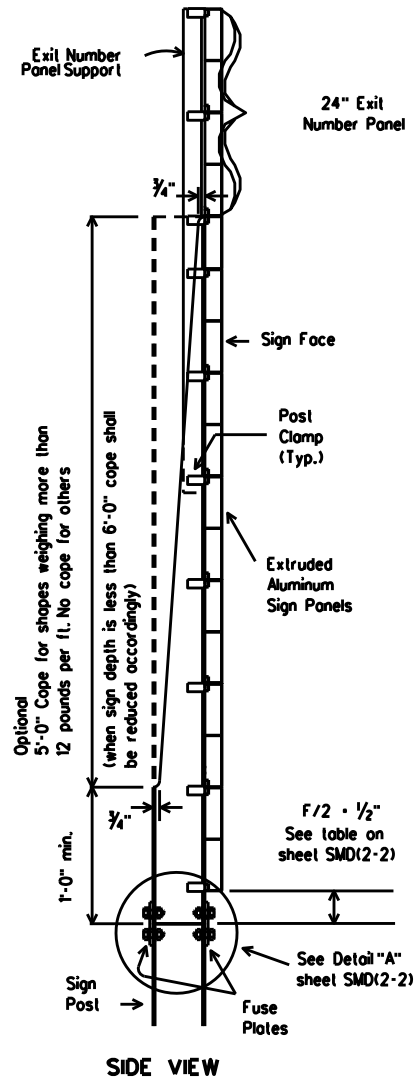
© TxDOT August 1995	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
4-98 REVISIONS	CONT	SECT	JOB	HIGHWAY
9-08	6428/42	001	IH-44, ETC.	
	DIST	COUNTY	SHEET NO.	
	WFS	WICHITA, ETC.	84	

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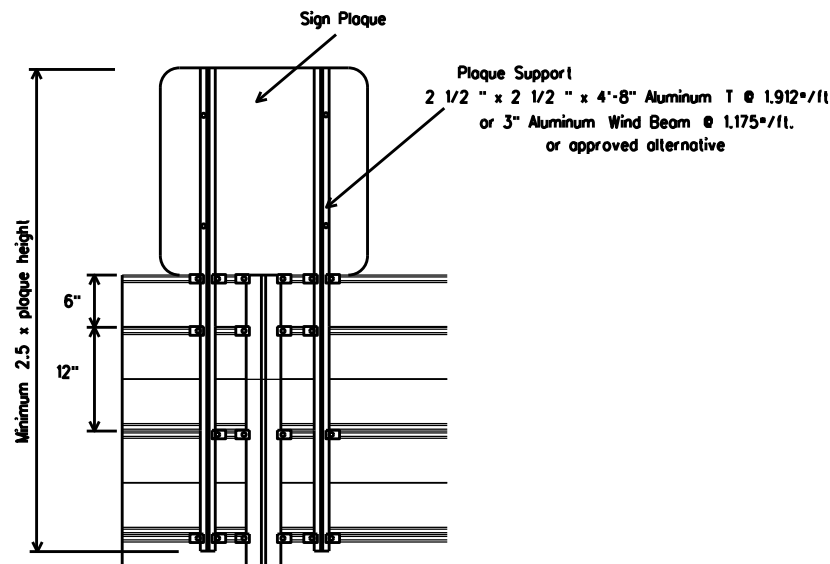


REAR VIEW



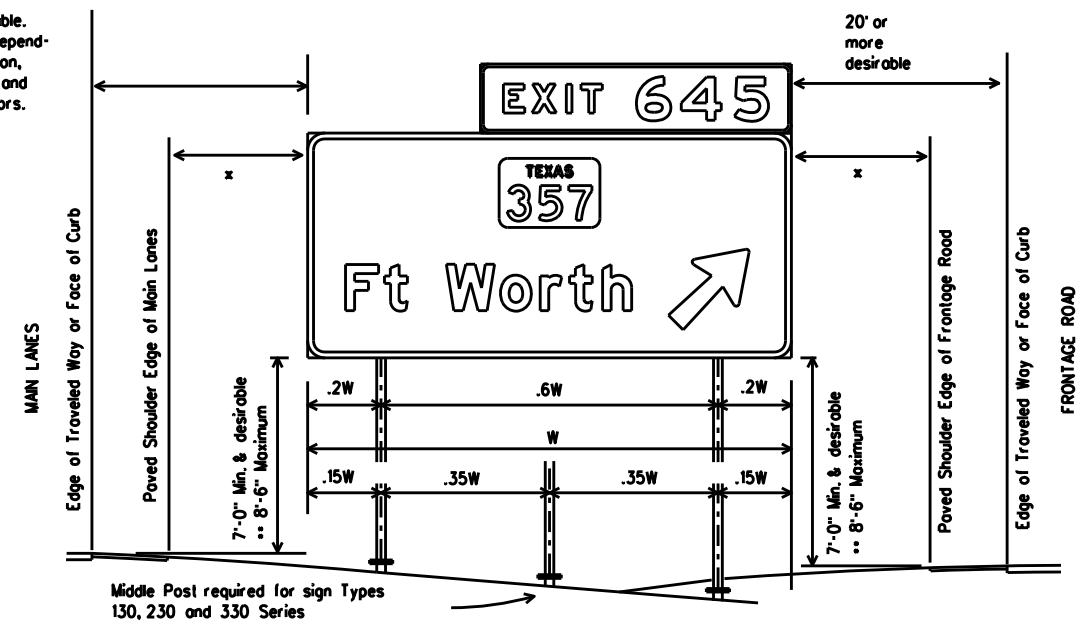
SIDE VIEW

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.

x - 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:

- 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.
- Exit number panel support shall be symmetrical about number panel centerline.
- Exit number panel support shall be ASTM A36 structural steel galvanized after fabrication, or ASTM B221 aluminum alloy 6061-T6 or approved alternative.
- All bolts, nuts and washers shall be galvanized per ASTM Designation: B695 Class 50, or A153 Class C or D.
- Posts, parent sign panels, and exit number panels shall comply with notes on sheets SMD(2-1) and SMD(2-2).
- 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.
- 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."
- For fiberglass sign installation details, see manufacturer's recommendations.



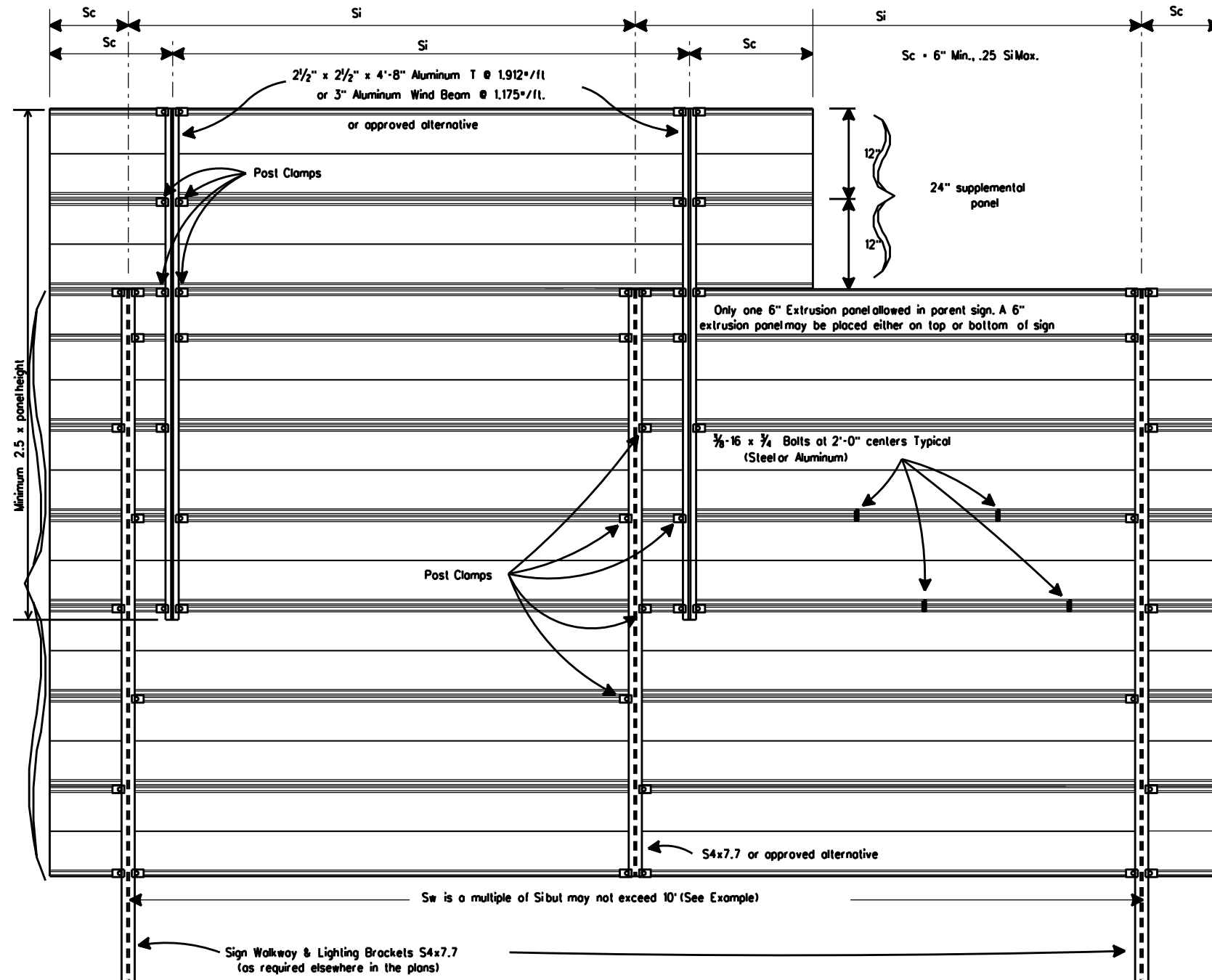
SIGN MOUNTING DETAILS-
 LARGE ROADSIDE SIGNS

SMD(2-3)-08

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	6428	42	001	IH-44, ETC.
	DIST	COUNTY	SHEET NO.	
	WFS	WICHITA, ETC.	85	

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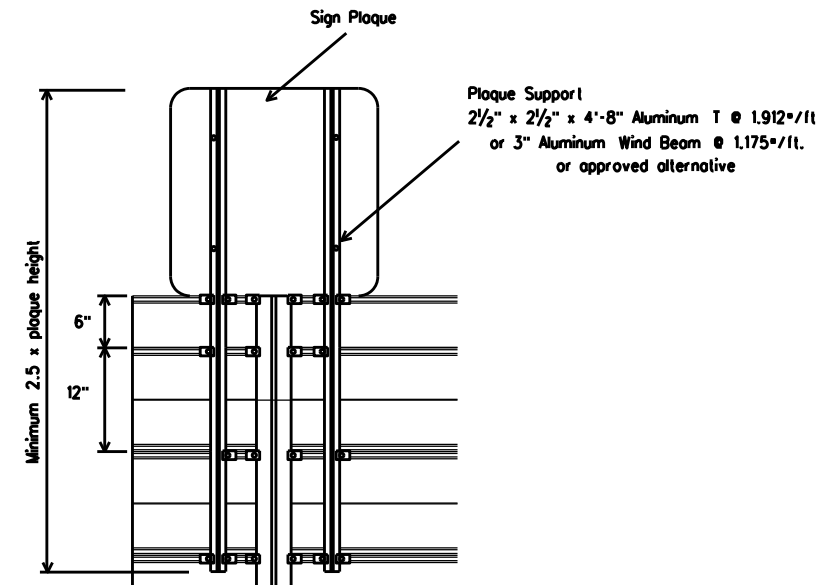


REAR VIEW

EXAMPLES (FOR DETERMINING Si and Sw)

NO.	ZONE	"d"	EXIT	PANEL	WALKWAY	Si	Sw	COMMENT
1	1	15.0	YES	YES	YES	4.5	9.0	Sw = 2 x (Si)
2	2	14.0	YES	YES	NO	7.5	7.5	Sw = Si
3	1	15.0	NO	NO	NO	8.5	8.5	Sw = Si
4	3	14.0	NO	YES	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"	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			
Group (Ft.)	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.



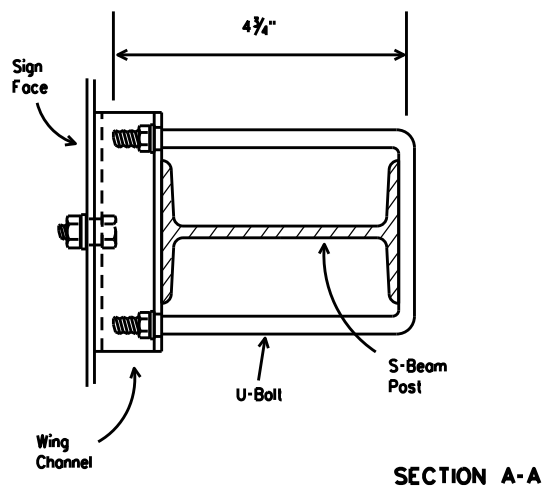
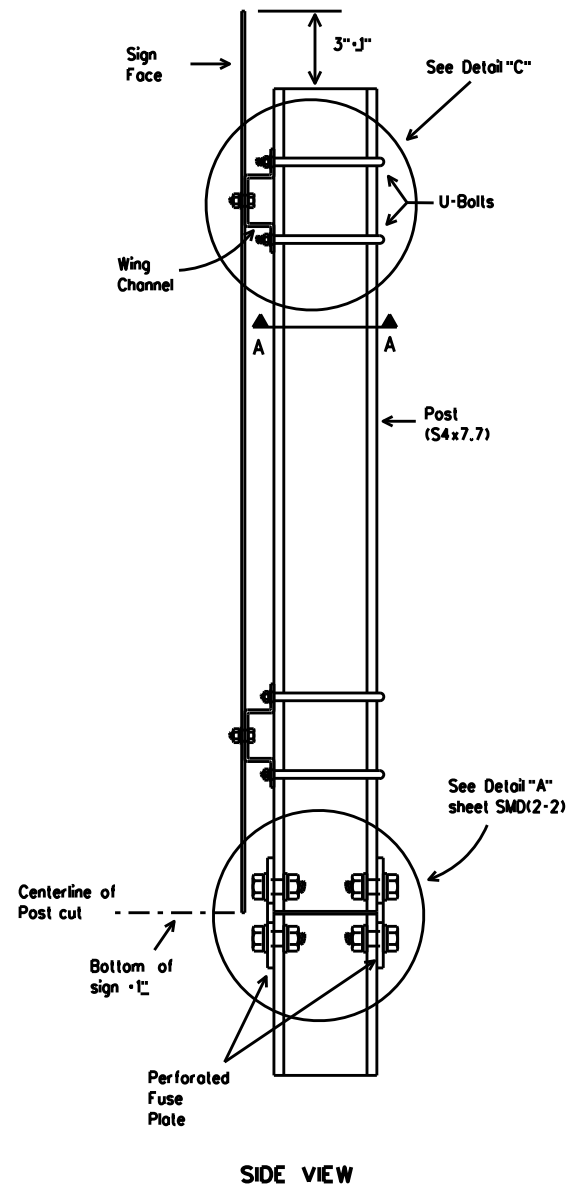
SIGN MOUNTING DETAILS-
 OVERHEAD SIGNS
 EXTRUDED ALUMINUM
 SMD(2-4)-08

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9-08	REVISIONS	CONT	SECT	JOB	HIGHWAY
		6428	42	001	IH-44, ETC.
		DIST	COUNTY	SHEET NO.	
		WFS	WICHITA, ETC.	86	

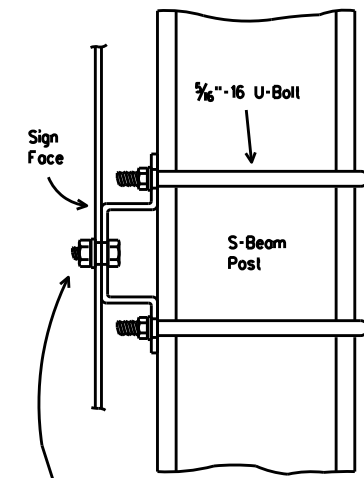
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WING CHANNEL CLAMP DETAIL FOR TYPE G MOUNT

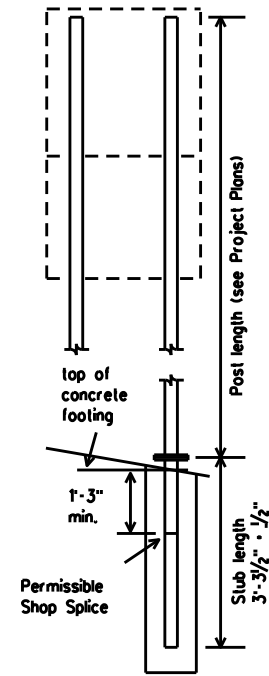


SECTION A-A

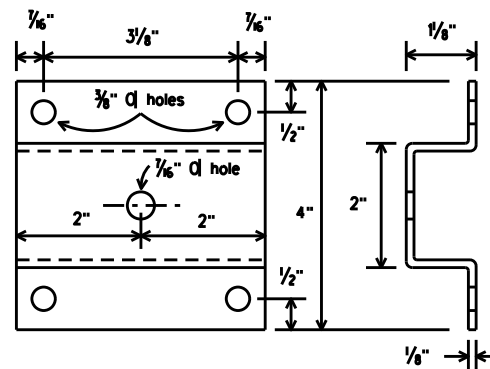


DETAIL "C"

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.



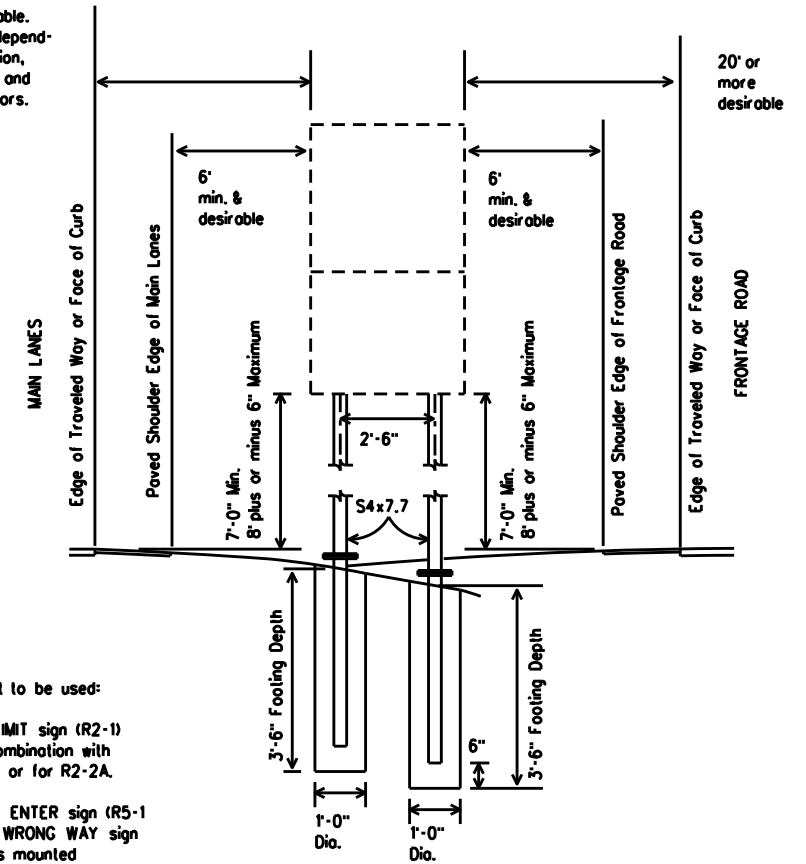
The weight of one S4x7.7 post is equal to 112.2 lbs. plus 7.7 lbs./ft x (post length in feet minus 10 ft). The weight of 112.2 lbs. includes 10 feet of post length, post foundation slab, related connection plates, friction fuse plate, and all high strength bolts, nuts and washers.



WING CHANNEL

Wing channel, 4" width x 1/8" depth x 1/8" 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).

30' or more desirable. May be reduced depending on cross section, viewing conditions and other related factors.



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.)

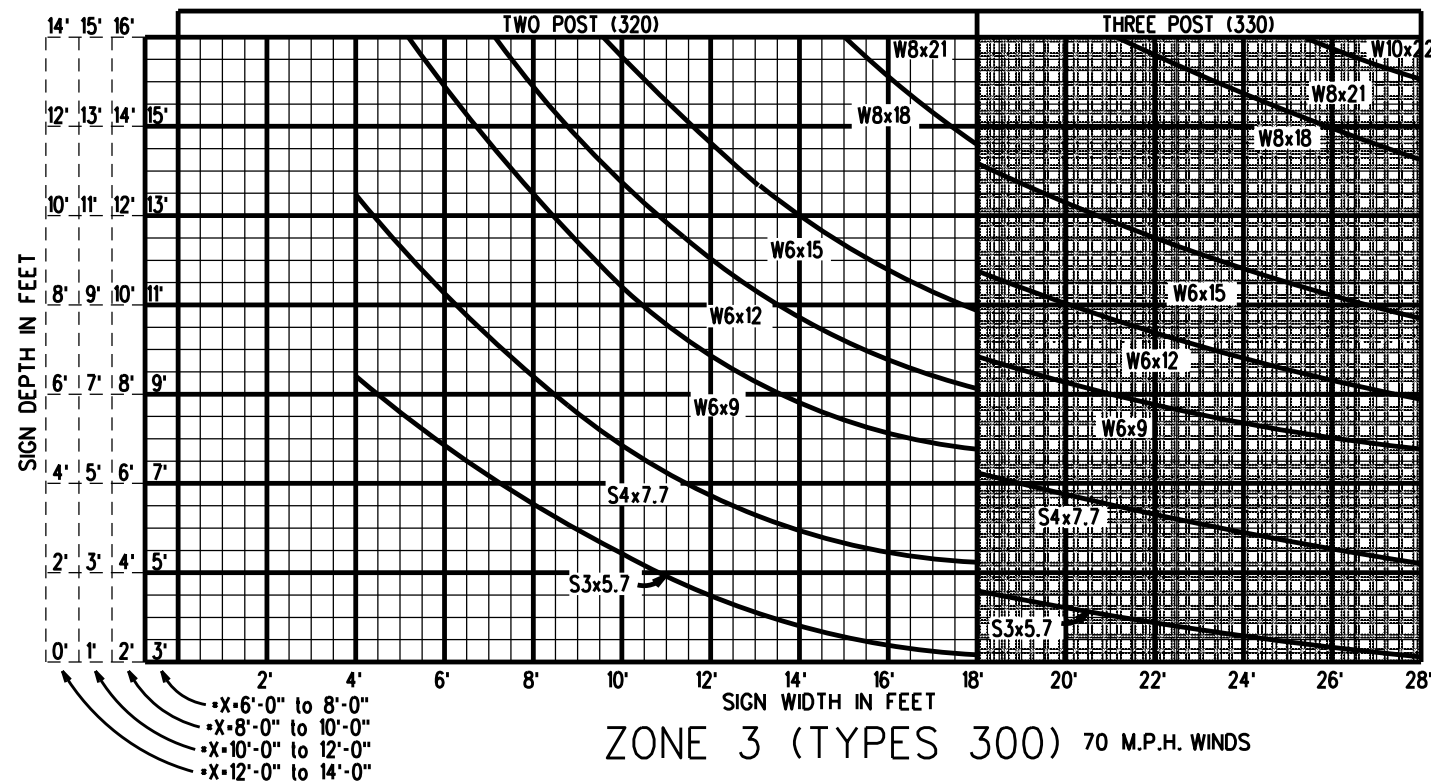
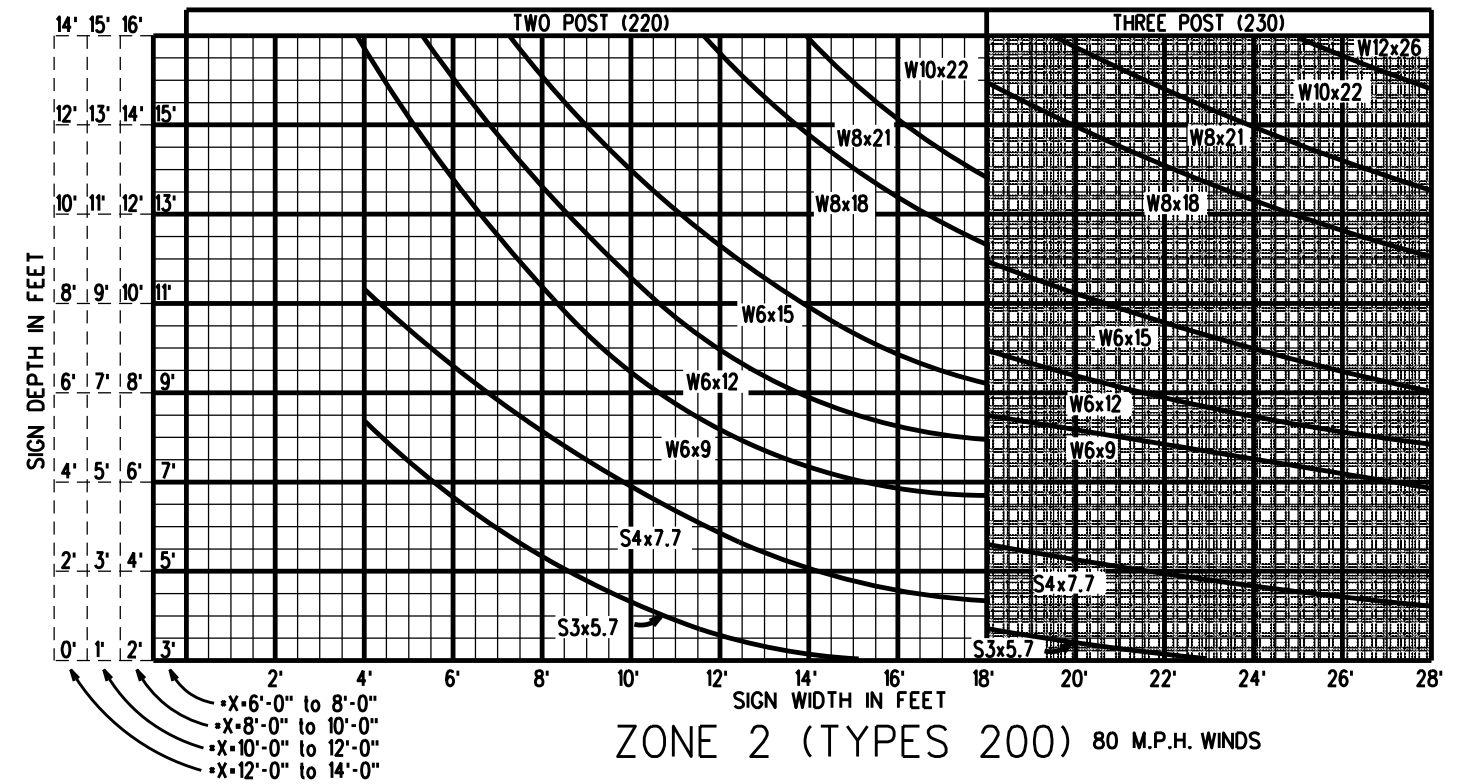
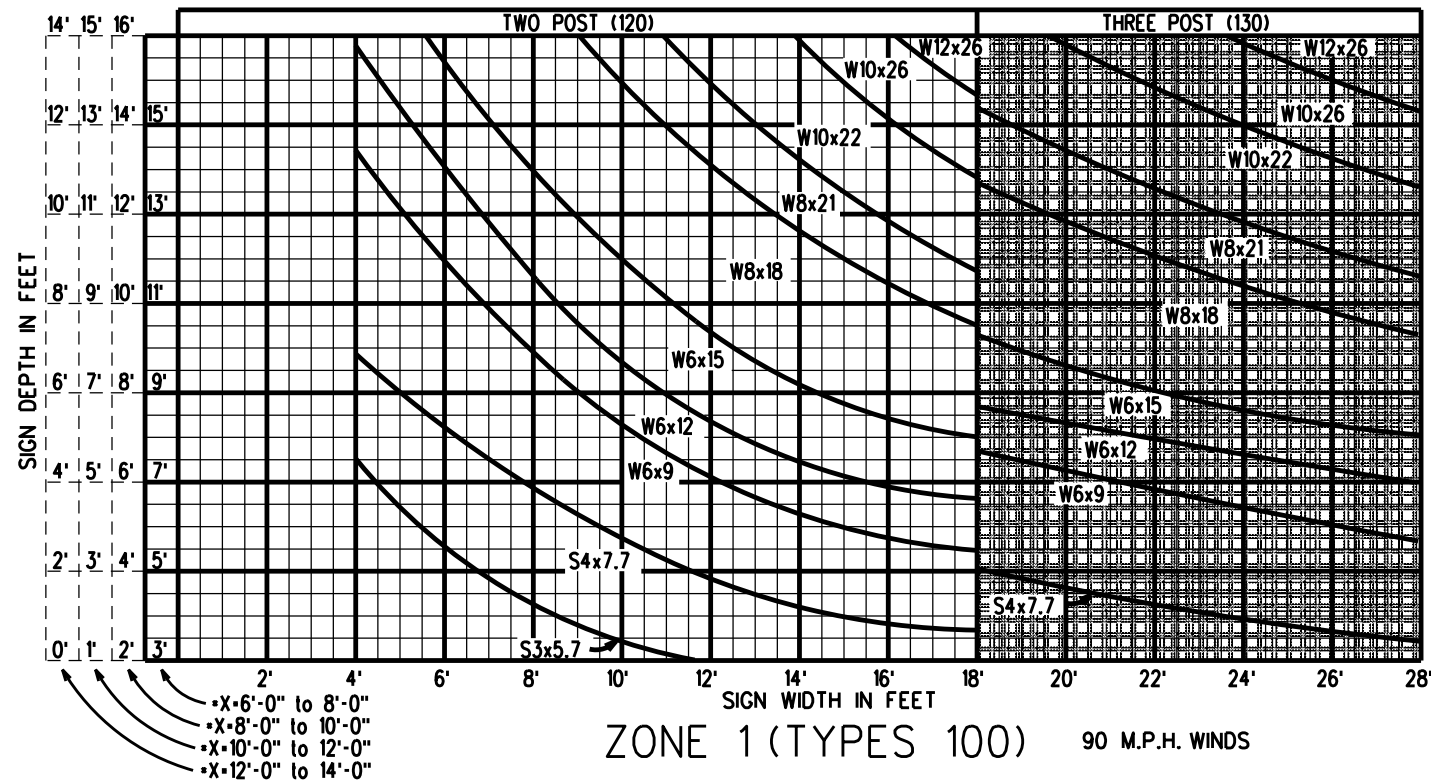


SIGN MOUNTING DETAILS, TYPE G SUPPORT SMD(TY G)-08

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1-97 9-08	CONT: 6428	SECT: 42	JOB: 001	HIGHWAY: IH-44, ETC.
	DIST: WFS	COUNTY: WICHITA, ETC.	SHEET NO. 87	

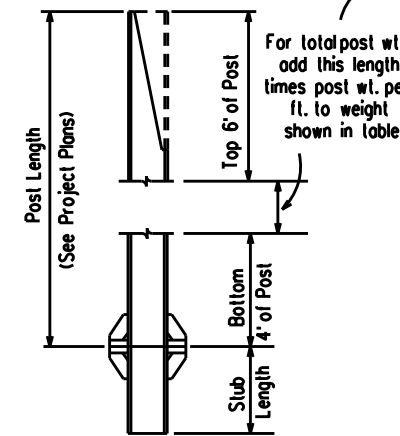
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* NOTE: "X" EQUALS THE AVERAGE HEIGHT FROM THE GROUND LINE TO THE BOTTOM EDGE OF THE SIGN.

SHADED AREA DENOTES 3 POST SUPPORTS

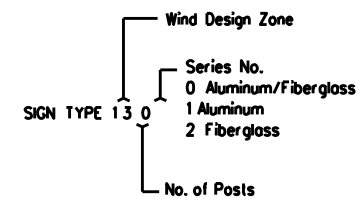


POST WEIGHT DATA			
POST SIZE	WEIGHT OF ONE POST (*)	WEIGHT OF TWO POSTS (**)	WEIGHT OF THREE POSTS (**)
W6x9*	123.2	246.4	369.6
W6x12*	160.3	320.6	480.9
W6x15*	167.8	335.6	503.4
W8x18*	201.8	403.6	605.4
W8x21*	254.7	509.4	764.1
W10x22*	266.0	532.0	798.0
W10x26*	308.0	616.0	924.0
W12x26*	308.6	617.2	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 slub, related base connection plates and stiffeners, friction fuse plate and all high strength bolts, nuts and washers).

SIGN TYPE



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.

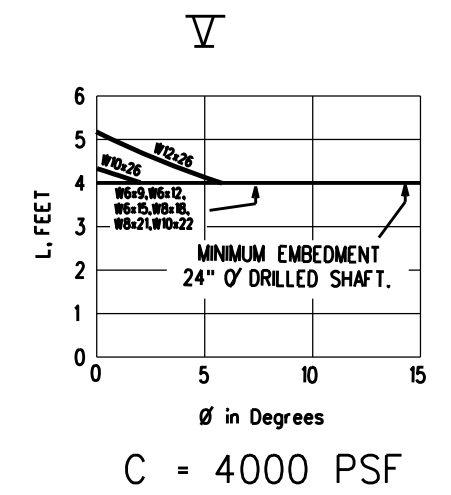
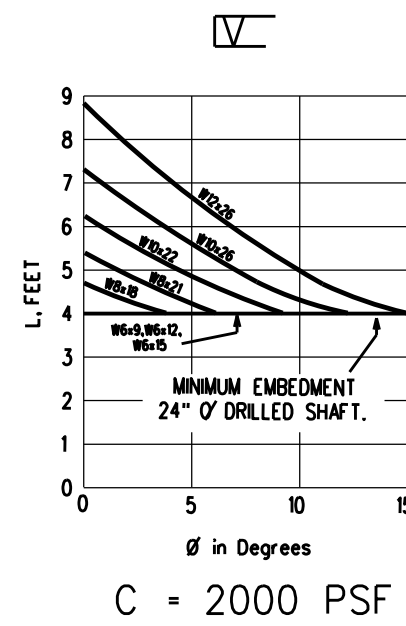
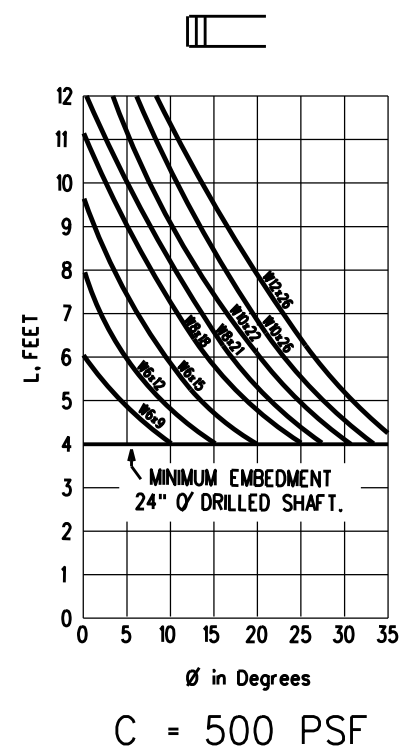
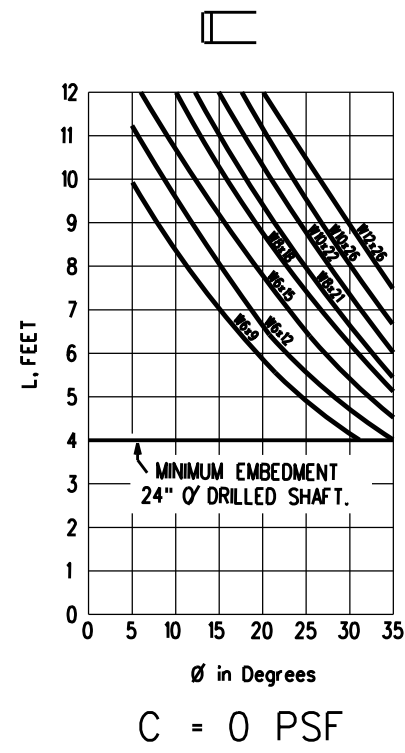
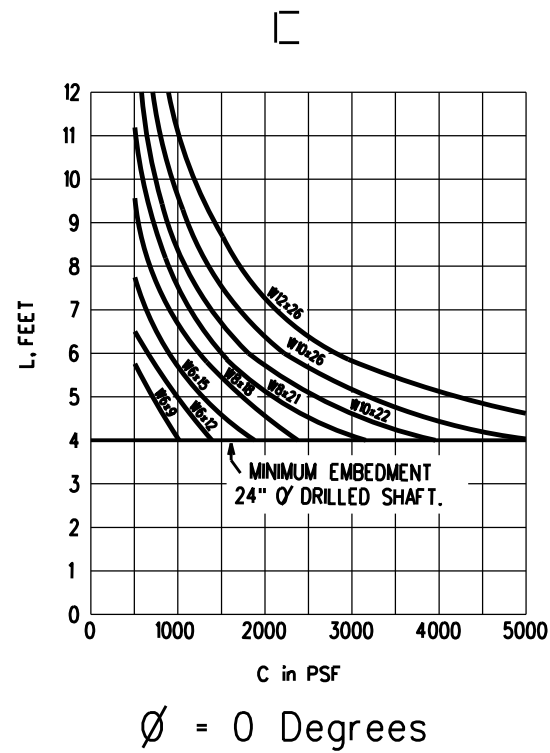
Texas Department of Transportation
 Traffic Operations Division

LARGE ROADSIDE SIGN SUPPORTS
POST SELECTION
WORKSHEET
SMD(8W1)-08

© TxDOT July 1978		DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
1-82	5-01	5-01	5-01	5-01	5-01
9-08	9-08	9-08	9-08	9-08	9-08
REVISONS	CONT	SECT	JOB	HIGHWAY	
	6428	42	001	IH-44, ETC.	
	DIST		COUNTY	SHEET NO.	
	WFS		WICHITA, ETC.	88	

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DATE: 4/19/2024 1:20:07 PM
 FILE: T:\WFSMANT\Maintenance Projects\6428-42-001 Lg Sign Rplcmt. FY2024\4 - Design\Master Design File\DCN Files\SMD(8W2)-08.dgn



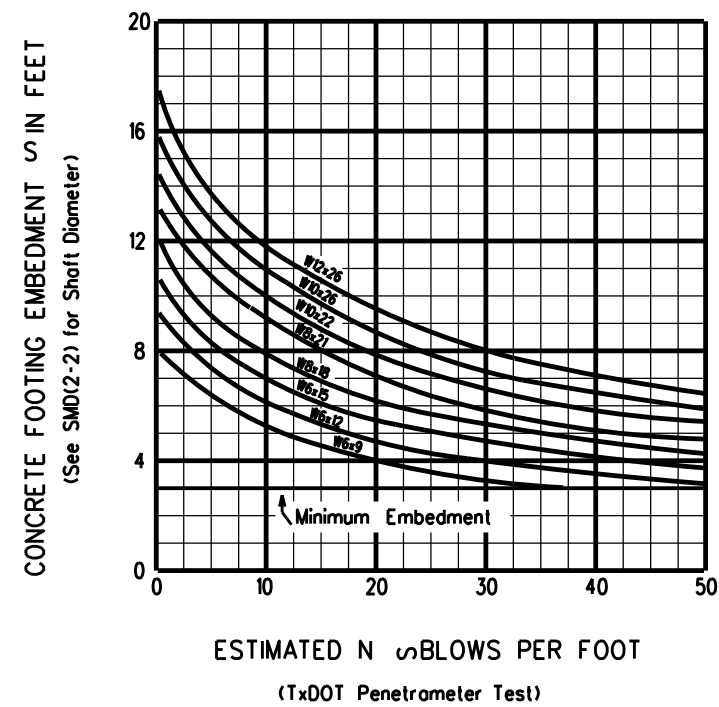
LEGEND:

- 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 (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.



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

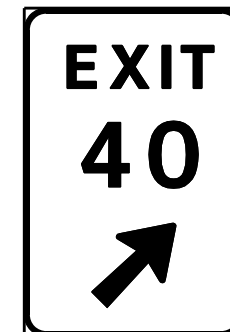
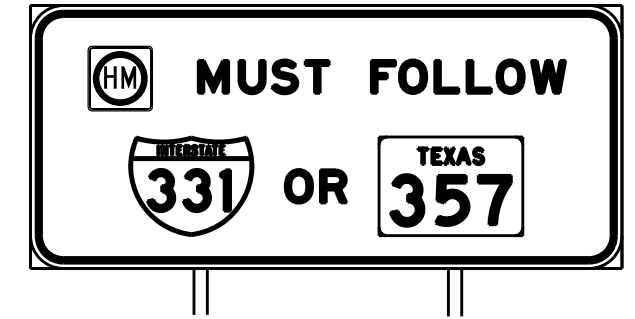
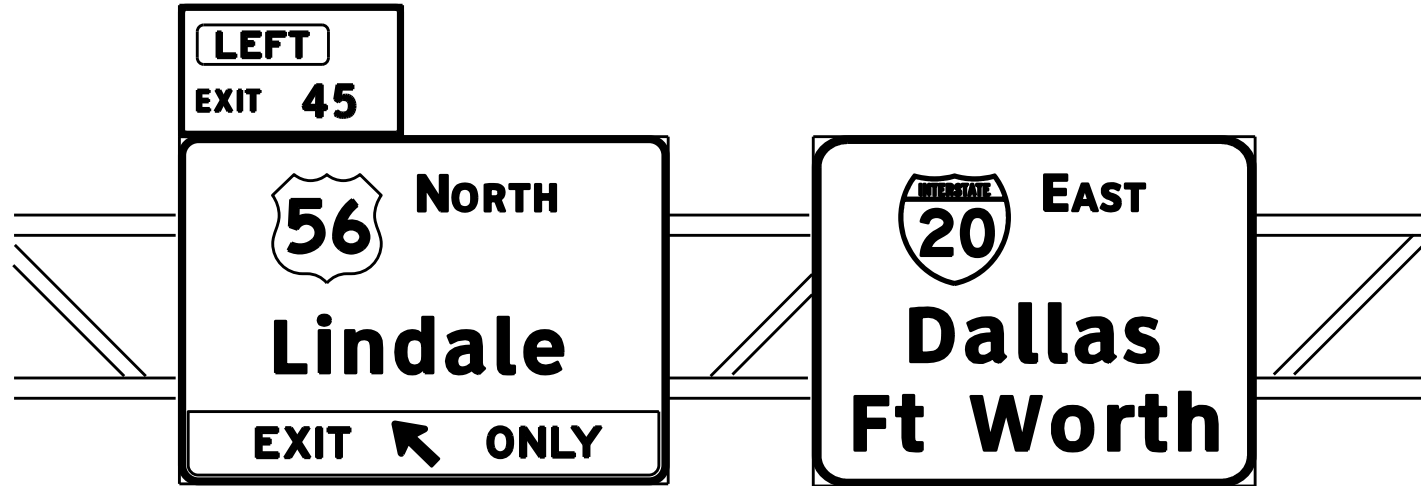
© TxDOT July 1972	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
5-74	CONT	SECT	JOB	HIGHWAY
4-78	6428	42	001	IH-44, ETC.
9-08	DIST	COUNTY	SHEET NO.	
	WFS	WICHITA, ETC.	89	

REQUIREMENTS FOR OVERHEAD AND LARGE GROUND-MOUNTED SIGNS

TYPICAL EXAMPLES

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DATE: 4/19/2024 1:20:07 PM
 FILE: T:\WFSMAIN\Maintenance Projects\6428-42-001 Lg Sign Rplcmnt FY2024\4 - 06428-42-001



GENERAL NOTES

- 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).
- 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
- Lateral spacing between letters and numerals shall conform with the SHSD, and any approved changes thereto. Lateral spacing of legend shall provide a balanced appearance when spacing is not shown.
- Black legend shall be applied by screening process or cut-out acrylic non-reflective black film to background sheeting, or combination thereof.
- White legend and borders shall be cut-out white sheeting applied to colored background sheeting.
- 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.
- 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.
- 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.
- 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.
- 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

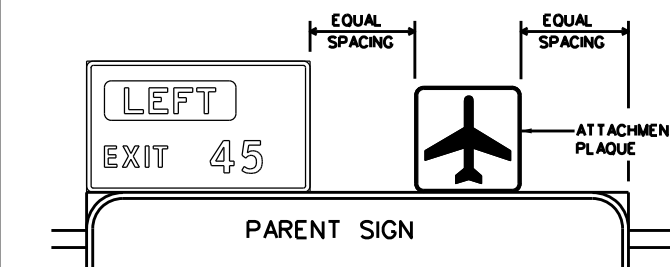
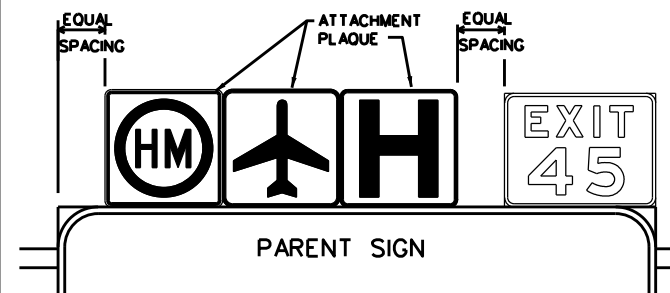
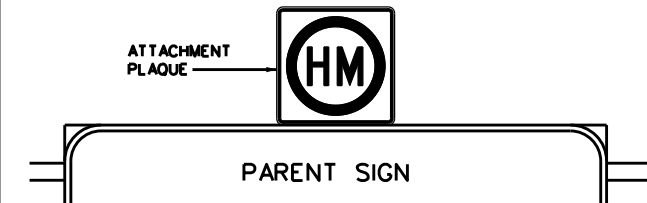
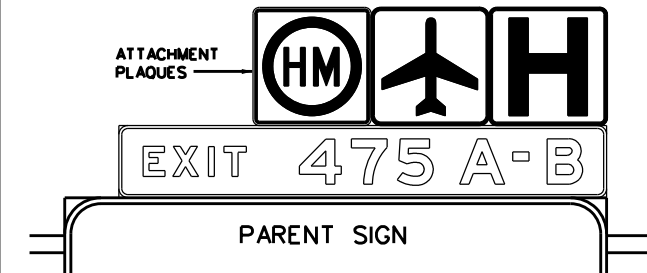
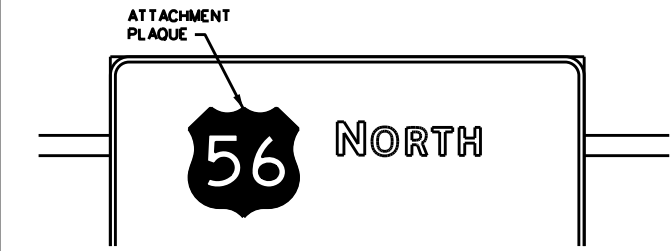


TYPICAL SIGN REQUIREMENTS

TSR(1)-13

FILE:	tsr1-13.dgn	DN:	TxDOT	CK:	TxDOT	DW:	TxDOT	CK:	TxDOT
© TxDOT	October 2003	CONT	SECT	JOB	HIGHWAY				
REVISIONS		6428	42	001	IH-44, ETC.				
12-03	7-13	DIST	COUNTY		SHEET NO.				
9-08		WFS	WICHITA, ETC.		90				

REQUIREMENTS FOR ATTACHMENTS TO OVERHEAD AND LARGE GROUND MOUNTED SIGNS



TYPICAL EXAMPLES

DEPARTMENTAL MATERIAL SPECIFICATIONS

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

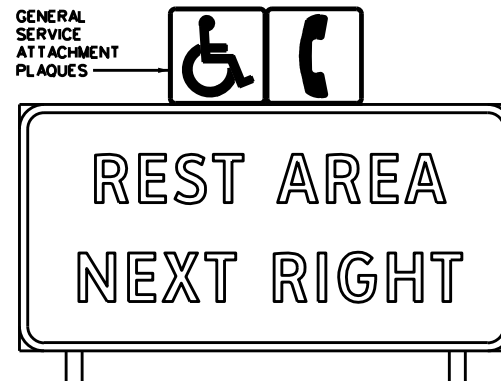
SHEETING REQUIREMENTS

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

- 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).
- 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).
- Lateral spacing between letters and numerals shall conform with the SHSD, and any approved changes thereto. Lateral spacing of legend shall provide a balanced appearance when spacing is not shown.
- Black legend and borders shall be applied by screening process or cut-out acrylic non-reflective black film to background sheeting, or combination thereof.
- 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.
- 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.
- 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).
- General Service Plaques shall be 0.080 inch thick and Routing Plaques shall be 0.100 inch thick.
- The priority for Routing Plaques shall be (left to right) Hazardous Material, Airport then Hospital. See examples for mounting location.
- 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.
- 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.

GENERAL SERVICE ATTACHMENT PLAQUES



REQUIREMENTS FOR EXIT ONLY AND LEFT EXIT PANELS

DEPARTMENTAL MATERIAL SPECIFICATIONS

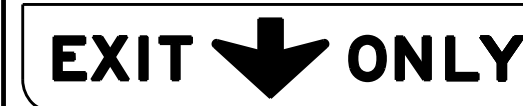
ALUMINUM SIGN BLANKS	DMS-7110
SIGN FACE MATERIALS	DMS-8300

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

GENERAL NOTES

- 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.
- Exit Panel legend shall use the Federal Highway Administration (FHWA) Standard Highway Alphabets E Series.
- Lateral spacing between letters and numerals shall conform with the SHSD, and any approved changes thereto. Lateral spacing of legend shall provide a balanced appearance when spacing is not shown.
- Black legend shall be applied by screening process or cut-out acrylic non-reflective black film to yellow background sheeting, or combination thereof.
- 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).
- Mounting details of Exit Only and Left Exit panel attachments to parent signs face are shown on Standard Plan Sheet TSR(5).



TYPICAL EXAMPLES

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website.

<http://www.txdot.gov/>



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	6428	42	001	IH-44, ETC.
12-03 7-13	DIST	COUNTY	SHEET NO.	
9-08	WFS	WICHITA, ETC.	91	

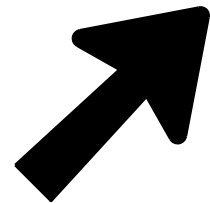
DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of units or for any errors or omissions resulting from its use.

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DATE: 4/19/2024 1:20:08 PM
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 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 digital format.

ARROW DETAILS

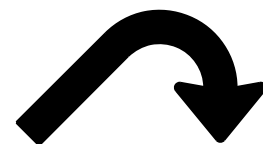
for Large Ground-Mounted and Overhead Guide Signs



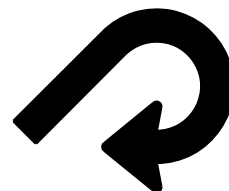
Type A



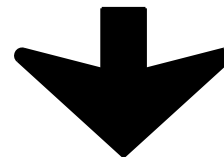
Type B



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	

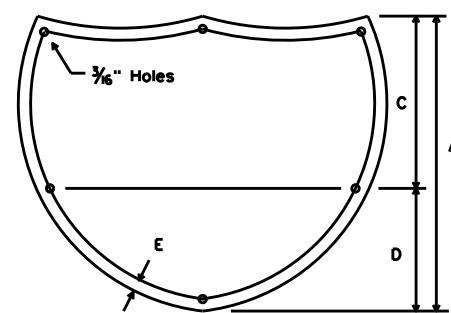
CODE	USED ON SIGN NO.
E-3	E5-1aT
E-4	E5-1bT

NOTE

Arrow dimensions are shown in the "Standard Highway Sign Designs for Texas" manual.

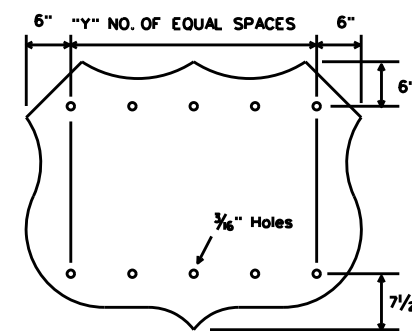
The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website:
<http://www.txdot.gov/>

SIGN BLANK PUNCHING DETAILS FOR ATTACHMENTS WHEN SPECIFIED TO BE TYPE A ALUMINUM SIGNS (FOR MOUNTING TO GUIDE SIGN FACE)



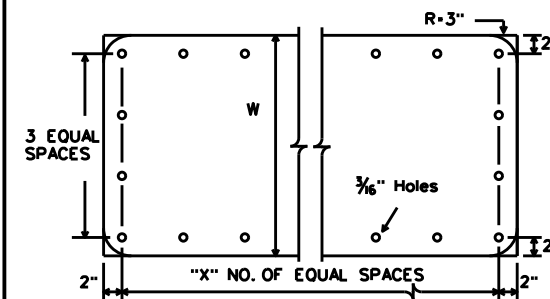
INTERSTATE ROUTE MARKERS

A	C	D	E
36	21	15	1 1/2
48	28	20	1 3/4



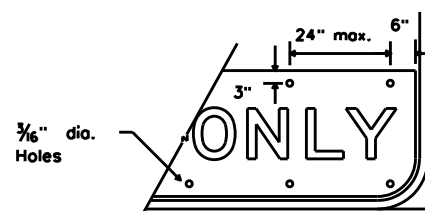
U.S. ROUTE MARKERS

Sign Size	"Y"
24x24	2
30x24	3
36x36	3
45x36	4
48x48	4
60x48	5



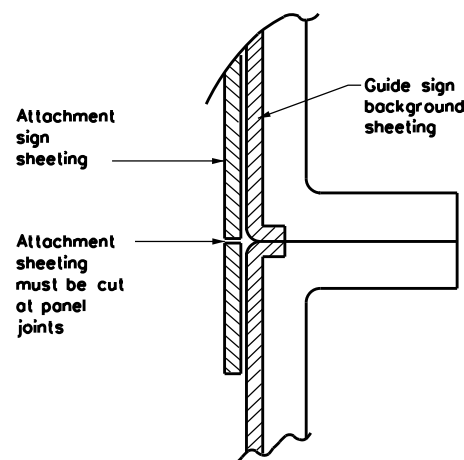
STATE ROUTE MARKERS

No. of Digits	W	X
4	24	4
4	36	5
4	48	6
3	24	3
3	36	4
3	48	5

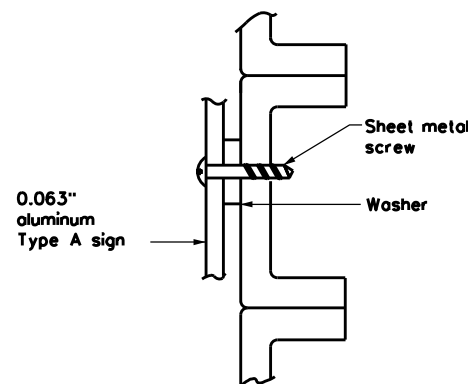


EXIT ONLY PANEL

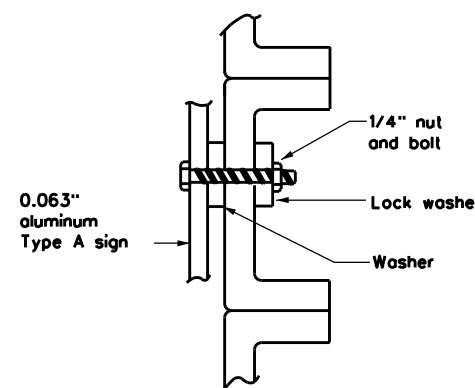
MOUNTING DETAILS OF ATTACHMENTS TO GUIDE SIGN FACE ("EXIT ONLY" AND "LEFT EXIT" PANELS, ROUTE MARKERS AND OTHER ATTACHMENTS)



DIRECT APPLIED ATTACHMENT



SCREW ATTACHMENT

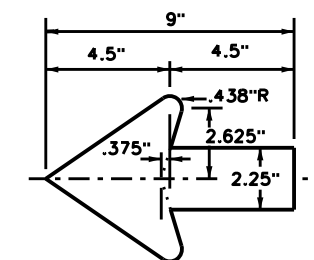


NUT/BOLT ATTACHMENT

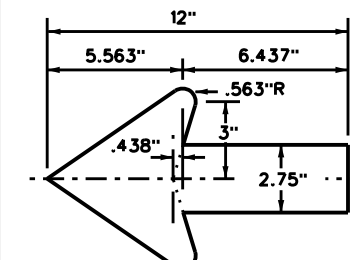
- NOTE:**
- Sheeting for legend, symbols, and borders must be cut at panel joints.
 - Direct applied attachment signs will be subsidiary to "Aluminum Signs" or "Fiberglass Signs".

- 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.



TYPICAL SIGN REQUIREMENTS

TSR(5)-13

FILE: tsr5-13.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT October 2003	CONT	SECT	JOB	HIGHWAY
REVISIONS	6428	42	001	IH-44, ETC.
12-03 7-13	DIST	COUNTY	SHEET NO.	
9-08	WFS	WICHITA, ETC.	92	