SEE SHEET 2 FOR "INDEX OF SHEETS"

STATE OF TEXAS TEXAS DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED STATE HIGHWAY IMPROVEMENT

INSTALLATION OF SMALL SIGNS STATE PROJECT NO: RMC 6462-56-001 COUNTY: LAVACA, ETC. LIMITS: FM 531. ETC.

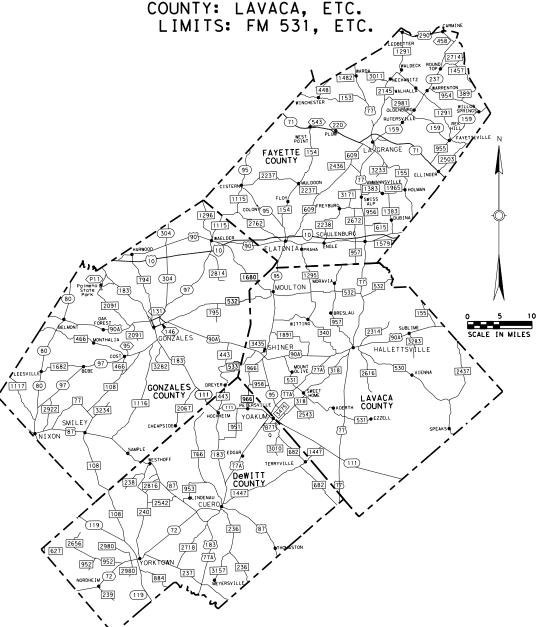
CONTRACTOR:	
DATE OF LETTING:	
DATE WORK BEGAN:	
DATE WORK COMPLETED:	
DATE WORK ACCEPTED:	
FINAL CONTRACT COST: \$	

LIST OF APPROVED FIELD CHANGES:

THIS IS TO CERTIFY THAT THE CONSTRUCTION WORK WAS PERFORMED IN ACCORDANCE WITH THE PLANS, CONTRACT AND LISTED FIELD CHANGES.

______, P. E.______, P. E.

DATE



YOAKUM AREA OFFICE

EXCEPTIONS: NONE EQUATIONS: NONE RAILROAD CROSSINGS: NONE



SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION, NOVEMBER 1, 2014 AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS, SHALL GOVERN ON THIS PROJECT: SPECIAL LABOR PROVISIONS FOR STATE PROJECTS (000---008).

SHEET NO.	ECT NO.	PROJE		FED.RD. DIV.NO.
1	62-56-001	RMC 64		6
	COUNTY	STATE DIST.		STATE
ETC.	LAVACA, E	YKM	s	TEXA.
IGHWAY NO.	JOB HIGH	SECT.		CONT.
531, ET	FM 5:			





1

DESCRIPTION

GENERAL

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- 52 53 SMD(TWT)-08
- 54 TSR(4)-13



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

Karp C. March, P. E. February 22 2024



INDEX OF SHEETS



FED.RD. DIV.NO.		PROJECT NO.		
6		RMC 6462-56-001		
CONT.	SECT.	JOB	HIGHWAY NO.	
			FM 531, ETC.	
STATE	DIST.	COUNTY	SHEET NO.	
TEXAS	YKM	LAVACA, ETC.	2	

Project Number: RMC 6462-56-001

County: LAVACA, ETC.

Highway: FM 531, ETC.

GENERAL NOTES:

GENERAL:

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

Marek Camille.Marek@txdot.gov Kelly Rother Kelly.Rother@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.

Do not work on the roadway before sunrise or after sunset unless otherwise approved.

Leave all traffic lanes open to traffic during non-working hours unless otherwise approved.

The Department will provide the cylinder testing machine for this project. Deliver the test specimens to the engineer's curing facilities as directed.

Do not clean out concrete trucks within the right of way.

ITEM 7: LEGAL RELATIONS AND RESPONSIBILITIES

The Department has determined that a USACE Nationwide or Individual Permit is not necessary for the project since all work shall be conducted outside the USACE jurisdictional areas. Any impacts to these jurisdictional areas by the Contractor without a USACE permit will be the responsibility of the Contractor. If the Contractor deems it necessary to impact the USACE jurisdictional areas, then it becomes the Contractor's entire responsibility to consult with the USACE pertaining to the need for a Nationwide or Individual Permit. TxDOT will then hold the Contractor responsible for following all conditions of the approved permit.

No significant traffic generator events identified.

Project Number: RMC 6462-56-001

County: LAVACA, ETC.

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ITEM 8: PROSECUTION AND PROGRESS

Provide progress schedule as a Bar Chart.

ITEM 502: BARRICADES, SIGNS, AND TRAFFIC HANDLING

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

Use WZ(RS)-22 in conjunction with TCP(2-2).

Use TCP(2-2b) for one-lane, two-way traffic control.

When using TCP(2-2b), a pilot car is required to lead traffic through the work space with or without channelizing devices on the center line unless otherwise approved.

When using TCP(2-2b), channelizing devices may be omitted during base, subgrade and seal coat operations unless otherwise directed. Flaggers will be required at public intersections when channelizing devices are omitted.

When using TCP(2-2b), arrow boards, displaying the caution mode, may be used to enhance the flagger stations. If used, place the arrow board in advance of the flagger station a distance of $\frac{1}{2}X$, the sign spacing distance shown on BC(2). Use arrow boards as shown on BC(7).

When using TCP(2-2b), the temporary 24" stop line and the CW16-2P plaques may be omitted.

When using TCP(2-2b), an additional "Road Work Ahead" and "Be Prepared To Stop" signs will be required on each end of the lane closure unless otherwise approved.

Provide suitable warning lights mounted high enough to be visible from all directions on all construction equipment, including pilot vehicles, and operate warning lights when the equipment is within the right of way. Equip other equipment such as trucks, trailers, autos, etc., with emergency flashers and use emergency flashers while within the work area.

Project limit traffic control devices will not be required for this project.

Project Number: RMC 6462-56-001

County: LAVACA, ETC.

Highway: FM 531, ETC.

Project Number: RMC 6462-56-001

County: LAVACA, ETC.

Highway: FM 531, ETC.

ITEM 506: TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL CONTROLS

The storm water pollution prevention plan (SW3P) for this project will consist of utilizing existing vegetation. The disturbed area is less than one acre and use of erosion control measures is not anticipated. If physical conditions encountered at the job site require necessary controls, BMP installation, maintenance, and removal will be paid as extra work on a force account basis per Articles 4.4 and 9.7.

ITEM 644: SMALL ROADSIDE SIGN SUPPORTS AND ASSEMBLIES

Use Class B concrete for all small roadside sign assembly concrete footings.

The exact location of the foundations to be placed will be determined in the field by the Engineer.

Drill the holes in the signs carefully as to not damage the reflective sheeting of the signs.

ITEM 6185: TRUCK MOUNTED ATTENUATOR (TMA) AND TRAILER ATTENUATOR (TA)

Shadow vehicle(s) with TMA are set up for stationary and/or mobile operations. The contractor will be responsible for determining if operations will be ongoing at the same time to determine the total number of TMAs needed for the project.

The TMA/TA used for installation/removal of traffic control for a work area will be subsidiary to the TMA/TA used to perform the work.



CONTROLLING PROJECT ID 6462-56-001

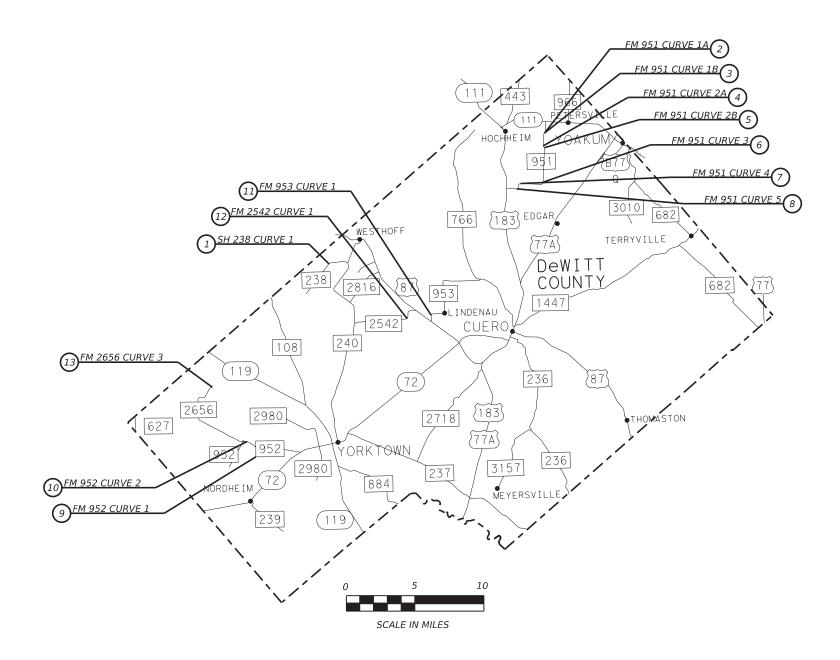
DISTRICT Yoakum HIGHWAY FM0531 **COUNTY** Lavaca

Estimate & Quantity Sheet

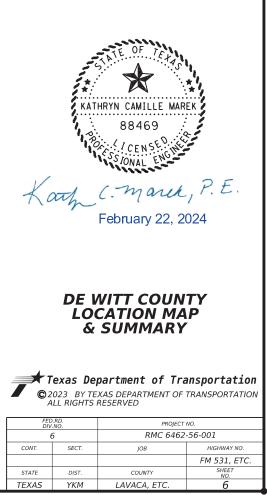
		CONTROL SECTIO	N JOB	6462-5	6-001		
		PROJ	ECT ID	A0020	6444	TOTAL EST.	
		C	DUNTY	Lava	aca		TOTAL EST.
		HIG	HWAY	FM0531			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	500-6001	MOBILIZATION	LS	1.000		1.000	
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	МО	3.000		3.000	
	644-6004	IN SM RD SN SUP&AM TY10BWG(1)SA(T)	EA	73.000		73.000	
	644-6061	IN SM RD SN SUP&AM TYTWT(1)WS(T)	EA	264.000		264.000	
	644-6076	REMOVE SM RD SN SUP&AM	EA	73.000		73.000	
	6185-6002	TMA (STATIONARY)	DAY	45.000		45.000	

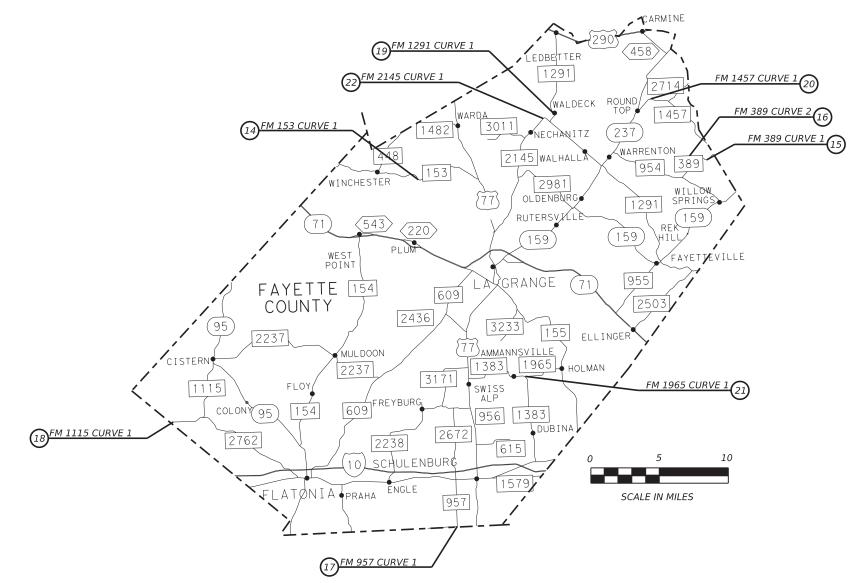


DISTRICT	COUNTY	CCSJ	SHEET
Yoakum	Lavaca	6462-56-001	5



REFERENCE #	AREA OFFICE	COUNTY	LOCATION	LATITUDE	LONGITUDE
	YOAKUM	DE WITT	FM 238 CURVE 1	29.170494	-97.508205
2	YOAKUM	DE WITT	FM 951 CURVE 1A	29.303010	-97.244847
3	YOAKUM	DE WITT	FM 951 CURVE 1B	29.302433	-97.244173
4	YOAKUM	DE WITT	FM 951 CURVE 2A	29.288407	-97.247346
5	YOAKUM	DE WITT	FM 951 CURVE 2B	29.288089	-97.244390
6	YOAKUM	DE WITT	FM 951 CURVE 3	29.249720	-97.249345
	YOAKUM	DE WITT	FM 951 CURVE 4	29.249162	-97.277526
8	YOAKUM	DE WITT	FM 951 CURVE 5	29.247344	-97.276798
9	YOAKUM	DE WITT	FM 952 CURVE 1	28.973840	-97.591796
10	YOAKUM	DE WITT	FM 952 CURVE 2	28.983991	-97.612342
	YOAKUM	DE WITT	FM 953 CURVE 1	29.117143	-97.361234
12	YOAKUM	DE WITT	FM 2542 CURVE 1	29.111285	-97.414215
13	YOAKUM	DE WITT	FM 2656 CURVE 3	29.042258	-97.653787





REFERENCE #	AREA OFFICE	COUNTY	LOCATION	LATITUDE	LONGITUDE
14	YOAKUM	FAYETTE	FM 153 CURVE 1	29.999836	-96.963500
15	YOAKUM	FAYETTE	FM 389 CURVE 1	30.011600	-96.614457
16	YOAKUM	FAYETTE	FM 389 CURVE 2	30.014287	-96.618064
17	YOAKUM	FAYETTE	FM 957 CURVE 1	29.633914	-96.930819
18	YOAKUM	FAYETTE	FM 1115 CURVE 1	29.749617	-97.266016
19	YOAKUM	FAYETTE	FM 1291 CURVE 1	30.064847	-96.796001
20	YOAKUM	FAYETTE	FM 1457 CURVE 1	30.077835	-96.679023
21	YOAKUM	FAYETTE	FM 1965 CURVE 1	29.788902	-96.840459
22	YOAKUM	FAYETTE	FM 2145 CURVE 1	30.060838	-96.808955

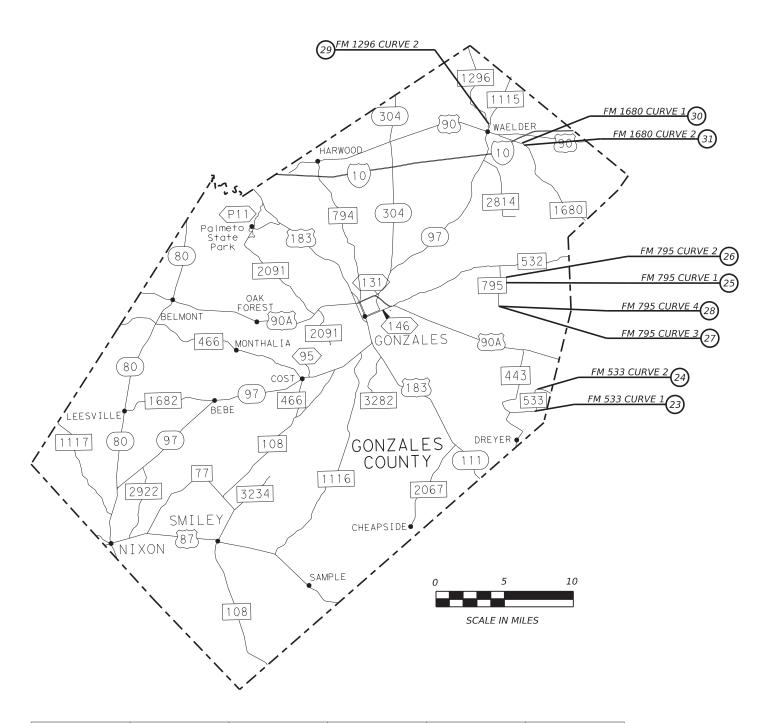








FED.RD. DIV.NO.		PROJECT NO.		
6		RMC 6462-56-001		
CONT.	SECT.	JOB	HIGHWAY NO.	
			FM 531, ETC.	
STATE	DIST.	COUNTY	SHEET NO.	
TEXAS	YKM	LAVACA, ETC.	7	



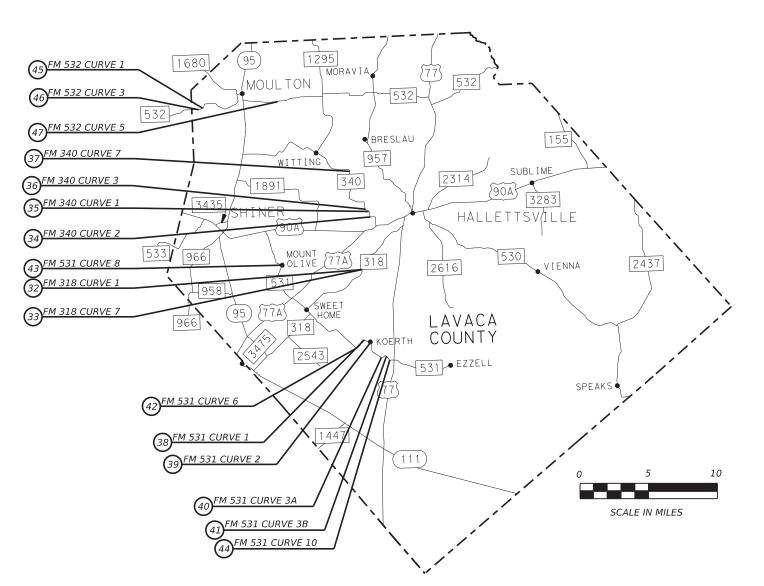
REFERENCE #	AREA OFFICE	COUNTY	LOCATION	LATITUDE	LONGITUDE
23	YOAKUM	GONZALES	FM 533 CURVE 1	29.397942	-97.246513
24	YOAKUM	GONZALES	FM 533 CURVE 2	29.419230	-97.246808
25	YOAKUM	GONZALES	FM 795 CURVE 1	29.538340	-97.287756
26	YOAKUM	GONZALES	FM 795 CURVE 2	29.537943	-97.285308
27	YOAKUM	GONZALES	FM 795 CURVE 3	29.525851	-97.286599
28	YOAKUM	GONZALES	FM 795 CURVE 4	29.525851	-97.286599
29	YOAKUM	GONZALES	FM 1296 CURVE 2	29.713152	-97.301530
30	YOAKUM	GONZALES	FM 1680 CURVE 1	29.680267	-97.256969
31	YOAKUM	GONZALES	FM 1680 CURVE 2	29.678233	-97.255563



GONZALES COUNTY LOCATION MAP & SUMMARY



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			FM 531, ETC.	
STATE	DIST.	COUNTY	SHEET NO.	
TEXAS	YKM	LAVACA, ETC.	8	



REFERENCE #	AREA OFFICE	COUNTY	LOCATION	LATITUDE	LONGITUDE
32	YOAKUM	LAVACA	FM 318 CURVE 1	29.391362	-97.002213
33	YOAKUM	LAVACA	FM 318 CURVE 7	29.392863	-96.999889
34	YOAKUM	LAVACA	FM 340 CURVE 2	29.443762	-96.995296
35	YOAKUM	LAVACA	FM 340 CURVE 1	29.445622	-96.994198
36	YOAKUM	LAVACA	FM 340 CURVE 3	29.447583	-96.997563
37	YOAKUM	LAVACA	FM 340 CURVE 7	29.491265	-97.016818
38	YOAKUM	LAVACA	FM 531 CURVE 1	29.310808	-97.000423
39	YOAKUM	LAVACA	FM 531 CURVE 2	29.310808	-97.000423
40	YOAKUM	LAVACA	FM 531 CURVE 3A	29.293278	-96.981203
(41)	YOAKUM	LAVACA	FM 531 CURVE 3B	29.293278	-96.981203
42	YOAKUM	LAVACA	FM 531 CURVE 6	29.302735	-97.012560
43	YOAKUM	LAVACA	FM 531 CURVE 8	29.392851	-97.099384
44	YOAKUM	LAVACA	FM 531 CURVE 10	29.289570	-96.973092
45	YOAKUM	LAVACA	FM 532 CURVE 1	29.561056	-97.190378
46	YOAKUM	LAVACA	FM 532 CURVE 3	29.560909	-97.191003
(47)	YOAKUM	LAVACA	FM 532 CURVE 5	29.564749	-97.108907



February 22, 2024





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CONT.	SECT.	JOB	HIGHWAY NO.	
			FM 531, ETC.	
STATE	DIST.	COUNTY	SHEET NO.	
TEXAS	YKM	LAVACA, ETC.	9	

				SI	UMMARY OF SMALL SIGNS				
							644-6004	644-6061	644-6076
REFERENCE #	LATITUDE	LONGITUDE	LOCATION	SIGN DESIGNATION	SIGN CONTENT	SIGN DIMENSIONS	IN SM RD SN SUP&AM TY10BWG(1) SA(T)	IN SM RD SN SUP&AM TYTWT(1) WS(T)	REMOVE SM RD SN SUP&AM
							EA	EA	EA
DE WITT COU	NTY								
FM 238									
				W1-2R	CURVE RIGHT	36 X 36	1		1
			W13-1P	SPEED ADVISORY (45 MPH)	18 X 18	I		I	
				W1-8L	CHEVRON	18 X 24		1	
	(1) 29.169965 -97		Curve 1	W1-8R	(BACK TO BACK)	18 X 24		I	
		-97.508815		W1-8L	CHEVRON	18 X 24		1	
\mathbf{O}		-97.500015		W1-8R	(BACK TO BACK)	18 X 24		Ι	
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		Ι	
				W1-2L	CURVE LEFT	36 X 36	1		1
				W13-1P	SPEED ADVISORY (45 MPH)	18 X 18	Ι		Ι
FM 951									
				W1-4R	RIGHT REVERSE CURVE	36 X 36	1		1
		W1	W13-1P	SPEED ADVISORY (35 MPH)	18 X 18	3		1	
				W1-8L	CHEVRON	18 X 24		1	
(2)	29.303653	-97.244737	Curve 1A	W1-8R	(BACK TO BACK)	18 X 24		I	
Ø	29.000000	-37.244737		W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		I	
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		I	
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		I	
				W1-8L	CHEVRON	18 X 24		4	
3	29.302343	-97.245777	Curve 1B	W1-8R	(BACK TO BACK)	18 X 24		1	
	29.302343	-91.243111	Curve IB	W1-8L	CHEVRON	18 X 24		4	
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-4R	RIGHT REVERSE CURVE	36 X 36	4		A
				W13-1P	SPEED ADVISORY (35 MPH)	18 X 18	1		1
		-		- J		SHEET TOTALS	4	9	4



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	D.RD. V.NO.	PROJECT NO.				
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			FM 531, ETC.			
STATE	DIST.	COUNTY	SHEET NO.			
TEXAS	YKM	LAVACA, ETC.	10			

				S	UMMARY OF SMALL SIGNS				
							644-6004	644-6061	644-6076
REFERENCE #	LATITUDE	LONGITUDE	LOCATION	SIGN DESIGNATION	SIGN CONTENT	SIGN DIMENSIONS	IN SM RD SN SUP&AM TY10BWG(1) SA(T) EA	IN SM RD SN SUP&AM TYTWT(1) WS(T) EA	REMOVE SM RD SN SUP&AM
DE WITT COUN	ITY								

FM 951

				W1-4L	LEFT REVERSE CURVE	36 X 36			
			W13-1P	SPEED ADVISORY (40 MPH)	18 X 18	1		1	
				W1-8L	CHEVRON	18 X 24		4	
\bigcirc	20.207002	07.040000	0	W1-8R	(BACK TO BACK)	18 X 24		I	
(4)	29.287983	-97.246868	Curve 2A	W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24		1	
			W1-8R	(BACK TO BACK)	18 X 24		I		
			W1-8L	CHEVRON	18 X 24		1		
				W1-8R	(BACK TO BACK)	18 X 24		I	
				W1-8L	CHEVRON	18 X 24		1	
5	29.287795	-97.24671	Curve 2B	W1-8R	(BACK TO BACK)	18 X 24		I	
U	29.201195	-97.24071	Curve 2D	W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-4L	LEFT REVERSE CURVE	36 X 36	1		4
			W13-1P	SPEED ADVISORY (40 MPH)	18 X 18	I		1	

VI 951									
				W1-2L	CURVE LEFT	36 X 36	1		
				W13-1P	SPEED ADVISORY (50 MPH)	18 X 18	I		
			W1-8L	CHEVRON	18 X 24		1		
			W1-8R	(BACK TO BACK)	18 X 24		I		
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
			W1-8L	CHEVRON	18 X 24		1		
			W1-8R	(BACK TO BACK)	18 X 24		I		
	-97.248983	Cumica 2	W1-8L	CHEVRON	18 X 24		1		
6	29.25061	-97.240903	Curve 3	W1-8R	(BACK TO BACK)	18 X 24		I	
				W1-8L	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8R		18 X 24		I	
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		I	
			W1-8L	CHEVRON	18 X 24		1		
			W1-8R	(BACK TO BACK)	18 X 24		I		
				W1-2R	CURVE RIGHT	36 X 36	1		1
				W13-1P	SPEED ADVISORY (50 MPH)	18 X 18	I		
						SHEET TOTALS	4	13	4



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	D.RD. NO.	PROJECT NO.				
	5	RMC 6462-56-001				
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			FM 531, ETC.			
STATE	DIST.	COUNTY	SHEET NO.			
TEXAS	YKM	LAVACA, ETC.	11			

REFERENCE # LATITUDE LONGITUDE LOCATION LOCATION DESIGNATION SIGN CONTENT SIGN DIMENSIONS SUP&AM TYTUDE SUP&AM TYTUT(1) SA(T) WS(T) SUP&AM TYTUT(1) WS(T)					S	UMMARY OF SMALL SIGNS				
REFERENCE LATITUDE LONGITUDE LOCATION DESIGN DESIGNATION SIGN CONTENT DIMENSIONS NOT TUPPANI TWOTING SATT SUPPANI TWOTING SATT SUPPANI TWOTING SATT SUPPANI TWOTING SATT <								644-6004	644-6061	644-6076
Image: Second		LATITUDE	LONGITUDE	LOCATION		SIGN CONTENT		SUP&AM TY10BWG(1)	SUP&AM TYTWT(1)	SM RD SN
Image: Second								FA	FA	FA
$ \begin{tabular}{ c c c c c c } \hline $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $	DE WITT COUN	NTY						2,1	2,1	273
$ \begin{tabular}{ c c c c c } \hline $ 3 \\ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $$	FM 951									
3 29.24543 -97.27898 FURPHIC Property of the second se					W1-4L	LEFT REVERSE CURVE	36 X 36	4		4
$ \begin{tabular}{ c c c c c } \hline $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $					W13-1P	SPEED ADVISORY (50 MPH)	18 X 18	Ι		1
$ 3 \ 29.24575 \ 97.27846 \ 407.5284 \ 407.$					W1-8L		18 X 24		1	
Image: Part of the state						(BACK TO BACK)				
3 29.247575 -97.27846 Curve 4 Image: model of the second s				Curve 4					1	
$ \begin{tabular}{ c c c c c c } \hline $ 29.247575 $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $$										
 29.247575 97.27846 97.27846 97.27847 97.27847 97.27847 97.27847 97.27847 97.278598 97.278598 97.278598 97.278598 97.278598 97.278598 97.278598 97.278598									1	
3 29.246443 -97.278598 0.7.278598		29.247575	-97.27846			· ·	-			
$ \left(3 \right) 29.24643 \\ -97.278598 \\ \left(29.246443 \right) -97.278598 \\ \left(29.24644 \right)$									1	
3 8 8 9 1 4 8 1 4 8 1 4 1 4 8 1 4 1 4 8 1 4 1 4					W1-8L	CHEVRON	18 X 24			
Barbonic Back To BACK) 18 x 24 1 W1-8R CHEVRON (BACK TO BACK) 18 x 24 1 W1-8R CHEVRON					W1-8R		18 X 24		1	
$ \begin{tabular}{ c c c c c c } \hline \end{tabular} & \end{tabuar} & \end{tabular} & tabula$					W1-8L		18 X 24		1	
Image: Barbon in the state in the					W1-8R	(BACK TO BACK)				
(3) 29.246443 -97.278598 Curve 5 (1)									1	
Image: With the second secon						(BACK TO BACK)				
(3) 29.246443 -97.278598 -97.278598 Curve 5 (M-10)(N-10)									1	
Image: Wight with the second						, , , , , , , , , , , , , , , , , , ,				
$ \begin{tabular}{ c c c c c c c } \hline & & & & & & & & & & & & & & & & & & $									1	
Image: Wark with the second					W1-8L	CHEVRON	18 X 24			
Image: Wight					W1-8R		18 X 24		1	
8 29.246443 -97.278598 Curve 5 W1-8R (BACK TO BACK) 18 X 24 1 W1-8L CHEVRON (BACK TO BACK) 18 X 24 1 1 W1-8L CHEVRON (BACK TO BACK) 18 X 24 1 1 W1-8L CHEVRON (BACK TO BACK) 18 X 24 1 1 W1-8R CHEVRON (BACK TO BACK) 18 X 24 1 1 W1-8R CHEVRON (BACK TO BACK) 18 X 24 1 1 W1-8R CHEVRON (BACK TO BACK) 18 X 24 1 1 W1-8R CHEVRON (BACK TO BACK) 18 X 24 1 1 W1-8R CHEVRON (BACK TO BACK) 18 X 24 1 1 W1-8R W1-8L CHEVRON (BACK TO BACK) 18 X 24 1 1 W1-8L W1-8L CHEVRON (BACK TO BACK) 18 X 24 1 1 W1-8L W1-8L CHEVRON (BACK TO BACK) 18 X 24 1 1 W1-8L W1-8L CHEVRON (BACK TO BACK) 18 X 24 1 1 <					W1-8L	CHEVRON	18 X 24		1	
W1-6L CHEVRON (BACK TO BACK) 10 × 24 1 W1-8R (BACK TO BACK) 18 × 24 1 W1-8L CHEVRON (BACK TO BACK) 18 × 24 1 W1-8R (BACK TO BACK) 18 × 24 1 W1-8R (BACK TO BACK) 18 × 24 1 W1-8R CHEVRON (BACK TO BACK) 18 × 24 1 W1-8R (BACK TO BACK) 18 × 24 1 W1-8R W1-8R CHEVRON (BACK TO BACK) 18 × 24 1 W1-8R W1-8R CHEVRON (BACK TO BACK) 18 × 24 1 W1-8R W1-4L LEFT REVERSE CURVE 36 × 36 1 1 W13-1P SPEED ADVISORY (50 MPH) 18 × 18 1 1	୍ଦ	29 246443	-97 278598	Curve 5	W1-8R	(BACK TO BACK)	18 X 24			
W1-8R (BACK TO BACK) 18 X 24 18 1 W1-8L CHEVRON (BACK TO BACK) 18 X 24 1 1 W1-8R (BACK TO BACK) 18 X 24 1 1 W1-8R CHEVRON (BACK TO BACK) 18 X 24 1 1 W1-8R CHEVRON (BACK TO BACK) 18 X 24 1 1 W1-8R CHEVRON (BACK TO BACK) 18 X 24 1 1 W1-8R CHEVRON (BACK TO BACK) 18 X 24 1 1 W1-8R CHEVRON (BACK TO BACK) 18 X 24 1 1 W1-8L LEFT REVERSE CURVE 36 X 36 1 1 W1-4L LEFT REVERSE CURVE 36 X 36 1 1 W13-1P SPEED ADVISORY (50 MPH) 18 X 18 1 1	U U	20.210110	01.270000	Curroo					1	
W1-8R (BACK TO BACK) 18 X 24 1 W1-8L CHEVRON (BACK TO BACK) 18 X 24 1 W1-8R (BACK TO BACK) 18 X 24 1 W1-8R (BACK TO BACK) 18 X 24 1 W1-4L LEFT REVERSE CURVE 36 X 36 1 1 W13-1P SPEED ADVISORY (50 MPH) 18 X 18 1 1						(BACK TO BACK)				
W1-8L CHEVRON (BACK TO BACK) 18 X 24 18 X 24 1 W1-4L LEFT REVERSE CURVE 36 X 36 1 1 1 W13-1P SPEED ADVISORY (50 MPH) 18 X 18 1 1									1	
W1-8R (BACK TO BACK) 18 X 24 1 W1-4L LEFT REVERSE CURVE 36 X 36 1 1 W13-1P SPEED ADVISORY (50 MPH) 18 X 18 1 1						· ·				
W1 of X Hor X 24 Hor X 24 W1 -4L LEFT REVERSE CURVE 36 X 36 1 1 W13-1P SPEED ADVISORY (50 MPH) 18 X 18 1 1									1	
W13-1P SPEED ADVISORY (50 MPH) 18 X 18 1 1										
SHEET TOTALS 2 14 2								1		1
		·	I	·	·	· · · · · · · · · · · · · · · · · · ·	SHEET TOTALS	2	14	2





	NRD. NO.	PROJECT NO.				
	5	RMC 6462-56-001				
CONT.	SECT.	JOB	HIGHWAY NO.			
			FM 531, ETC.			
STATE	DIST.	COUNTY	SHEET NO.			
TEXAS	YKM	LAVACA, ETC.	12			

					UMMARY OF SMALL SIGNS				
				3	UNIMART OF SMALL SIGNS		644-6004	644-6061	644-6076
REFERENCE #	LATITUDE	LONGITUDE	LOCATION	SIGN DESIGNATION	SIGN CONTENT	SIGN DIMENSIONS	IN SM RD SN SUP&AM TY10BWG(1) SA(T)	IN SM RD SN SUP&AM TYTWT(1) WS(T)	REMOVE SM RD SN SUP&AM
							EA	EA	EA
FM 952									
1 W 552				W1-2L	CURVE LEFT	36 X 36			
				W13-1P	SPEED ADVISORY (40 MPH)	18 X 18	1		1
				W1-8L		18 X 24			
				W1-8R	CHEVRON (BACK TO BACK)	18 X 24		1	
0				W1-8L	CHEVRON	18 X 24			
9	28.973688	-97.592787	Curve 1	W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-2R	CURVE RIGHT	36 X 36			
				W13-1P	SPEED ADVISORY (40 MPH)	18 X 18	1		1
FM 952					· ·				
			7 Curve 2	W1-2R	CURVE RIGHT	36 X 36			
				W13-1P	SPEED ADVISORY (45 MPH)	18 X 18	1		1
				W1-8L	CHEVRON	18 X 24			
	28.984408	-97.61337		W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24		4	
	28.984408			W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-2L	CURVE LEFT	36 X 36	1		1
				W13-1P	SPEED ADVISORY (45 MPH)	18 X 18	1		1
FM 953									
				W1-2L	CURVE LEFT	36 X 36	1		1
				W13-1P	SPEED ADVISORY (45 MPH)	18 X 18			
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		-	
				W1-8L		18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
(1)	29.116388	-97.371247	Curve 1	W1-8L		18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8R		18 X 24			
				W1-8L	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8R		18 X 24			
				W1-8L	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8R		18 X 24			
				W1-2R		36 X 36	1		1
				W13-1P	SPEED ADVISORY (45 MPH)	18 X 18	c	10	6
						SHEET TOTALS	6	13	6



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	.RD. .NO.	PROJECT NO.				
	5	RMC 6462-56-001				
CONT.	SECT.	JOB	HIGHWAY NO.			
			FM 531, ETC.			
STATE	DIST.	COUNTY	SHEET NO.			
TEXAS	YKM	LAVACA, ETC.	13			

				SI	JMMARY OF SMALL SIGNS				
							644-6004	644-6061	644-6076
REFERENCE #	LATITUDE	LONGITUDE	LOCATION	SIGN DESIGNATION	SIGN CONTENT	SIGN DIMENSIONS	IN SM RD SN SUP&AM TY10BWG(1) SA(T)	IN SM RD SN SUP&AM TYTWT(1) WS(T)	REMOVE SM RD SN SUP&AM
							EA	EA	EA
DE WITT COUI	NTY								
FM 2542	1	1				1	I		
				W1-2L	CURVE LEFT	36 X 36	1		1
				W13-1P	SPEED ADVISORY (45 MPH)	18 X 18	•		•
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
	W1-8R (BACK TO BACK)		18 X 24		1				
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
	00.40055	07.4470.15		W1-8L	CHEVRON	18 X 24			
(12)	29.10956	-97.417942	Curve 1	W1-8R	(BACK TO BACK)	18 X 24		1	

CHEVRON (BACK TO BACK)

CURVE RIGHT

ADVISORY SPEED (45 MPH)

1

1

1

1

1

11

1

2

18 X 24

36 X 36

18 X 18

SHEET TOTALS

1

2

W1-8L

W1-8R

W1-8L

W1-8R

W1-8L

W1-8R

W1-8L

W1-8R

W1-8L

W1-8R

W1-2R

W13-1P





	D.RD. '.NO.	PROJECT NO.				
	6	RMC 6462-56-001				
CONT.	SECT.	JOB	HIGHWAY NO.			
			FM 531, ETC.			
STATE	DIST.	COUNTY	SHEET NO.			
TEXAS	YKM	LAVACA, ETC.	14			

				SI	JMMARY OF SMALL SIGNS				
							644-6004	644-6061	644-6076
REFERENCE #	LATITUDE	LONGITUDE	LOCATION	SIGN DESIGNATION	SIGN CONTENT	SIGN DIMENSIONS	IN SM RD SN SUP&AM TY10BWG(1) SA(T)	IN SM RD SN SUP&AM TYTWT(1) WS(T)	REMOVE SM RD SN SUP&AM
						EA	EA	EA	
DE WITT COUI	NTY								
FM 2656	1	1				1			
				W1-2R	CURVE RIGHT	36 X 36	1		1
			W13-1P	SPEED ADVISORY (45 MPH)	18 X 18				
				W1-8L	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8R		18 X 24			
			W1-8L	CHEVRON (BACK TO BACK)	18 X 24		1		
				W1-8R W1-8L	, , , , , , , , , , , , , , , , , , ,	18 X 24 18 X 24			
				W1-8R	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8K W1-8L	, , , , , , , , , , , , , , , , , , ,	18 X 24			
				W1-8L W1-8R	CHEVRON (BACK TO BACK)	18 X 24		1	
-				W1-8L	, , , , , , , , , , , , , , , , , , ,	18 X 24			
13	29.041958	-97.65151	Curve 3	W1-8L W1-8R	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8L	· · ·	18 X 24			
				W1-8R	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8L		18 X 24			
				W1-8R	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8L		18 X 24			
				W1-8R	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	SM RD SN SUP&AM EA
				W1-2L	CURVE LEFT	36 X 36			
				W13-1P	SPEED ADVISORY (45 MPH)	18 X 18	1		1
	1	1	1	I	, , , , , , , , , , , , , , , , ,	SHEET TOTALS	2	9	2
					DE WITT C	OUNTY TOTALS	20	69	20





	D.RD. '.NO.	PROJECT	NO.	
	6	RMC 6462-56-001		
CONT.	SECT.	JOB	HIGHWAY NO.	
			FM 531, ETC.	
STATE	DIST.	COUNTY	SHEET NO.	
TEXAS	YKM	LAVACA, ETC.	15	

				SUMM	ARY OF SMALL SIGNS				
							644-6004	644-6061	644-6076
REFERENCE #	LATITUDE	LONGITUDE	LOCATION	SIGN DESIGNATION	SIGN CONTENT	SIGN DIMENSIONS	IN SM RD SN SUP&AM TY10BWG(1) SA(T)	IN SM RD SN SUP&AM TYTWT(1)WS (T)	REMOVE SM RD SN SUP&AM
							EA	EA	EA
FAYETTE COU	NIY								
				W1-2L	CURVE LEFT	36 X 36			
				W13-1P	SPEED ADVISORY (50 MPH)	18 X 18	1		1
				W1-8L	CHEVRON	18 X 24			1 1 1 1 1 1 1 1
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24		4	
			W1-8R	(BACK TO BACK)	18 X 24		1		
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		1	
14 30.0	30.001132	-96.965408	Curve 1	W1-8L	CHEVRON	18 X 24		1	
	001001102	001000100		W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L		18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			SM RD SN SUP&AM EA
				W1-8L	CHEVRON (BACK TO BACK)	18 X 24		1 1 1 1 1 1 1 1 1	
				W1-8R		18 X 24			
				W1-8L	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8R	, , , , , , , , , , , , , , , , , , ,	18 X 24			
				W1-2R W13-1P		36 X 36	1		1
FM 389				VV13-1F	SPEED ADVISORY (50 MPH)	18 X 18			
				W1-2L	CURVE LEFT	36 X 36			
				W13-1P	SPEED ADVISORY (50 MPH)	18 X 18	1		1
				W1-8L	CHEVRON	18 X 24			REMOVE SM RD SN SUP&AM
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24		4	
45	30.011467	-96.613018	Curve 1	W1-8R	(BACK TO BACK)	18 X 24		1	EA EA 1 1 1 1 1 1 1 1 1 1
(15)	30.01140/	-90.013018	Curve I	W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		I	
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		'	
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-2R	CURVE RIGHT	36 X 36	1		1
				W13-1P	SPEED ADVISORY (50 MPH)	18 X 18			





	NRD. NO.	PROJECT NO.				
	5	RMC 6462-56-001				
CONT.	SECT.	JOB	HIGHWAY NO.			
			FM 531, ETC.			
STATE	DIST.	COUNTY	SHEET NO.			
TEXAS	YKM	LAVACA, ETC.	16			

				SUMM	ARY OF SMALL SIGNS				
							644-6004	644-6061	644-6076
REFERENCE #	LATITUDE	LONGITUDE	LOCATION	SIGN DESIGNATION	SIGN CONTENT	SIGN DIMENSIONS	SUP&AM	IN SM RD SN SUP&AM TYTWT(1)WS (T)	REMOVE SM RD SN SUP&AM
							EA	EA	EA
FAYETTE COU FM 389	JNTY								
W 303				W1-2R	CURVE RIGHT	36 X 36			
				W13-1P	SPEED ADVISORY (50 MPH)	18 X 18	1		1
			W1-8L	CHEVRON	18 X 24				
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			EA EA 1
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	EA
(16)	30.013927	-96.62288	Curve 2	W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24		4	
				W1-8R	(BACK TO BACK)	18 X 24		1	EA EA I I I I I I I I I I I I I
				W1-2L	CURVE LEFT	36 X 36	4		
				W13-1P	SPEED ADVISORY (50 MPH)	18 X 18	1		Ţ
				·	S	HEET TOTALS	2	10	2





	NRD. NO.	PROJECT NO.				
	5	RMC 6462	RMC 6462-56-001			
CONT.	SECT.	JOB	HIGHWAY NO.			
			FM 531, ETC.			
STATE	DIST.	COUNTY	SHEET NO.			
TEXAS	YKM	LAVACA, ETC.	17			

				SUMM	ARY OF SMALL SIGNS				
							644-6004	644-6061	644-6076
REFERENCE #	LATITUDE	LONGITUDE	LOCATION	SIGN DESIGNATION	SIGN CONTENT	SIGN DIMENSIONS	IN SM RD SN SUP&AM TY10BWG(1) SA(T)	IN SM RD SN SUP&AM TYTWT(1)WS (T)	REMOVE SM RD SN SUP&AM
							EA	EA	EA
AYETTE COU	NTY								
WI 957				W1-2L	CURVE LEFT	36 X 36			
				W13-1P	SPEED ADVISORY (45 MPH)	18 X 18	1		1
				W1-8L	CHEVRON	18 X 24			SN M WS SM RD SN SUP&AM EA
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24		1	
(17) 29.6340				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		1	
	29.634013	-96.931613	Curve 1	W1-8L	CHEVRON	18 X 24		1	
0				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8R	. ,	18 X 24			
				W1-8L W1-8R	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8K W1-8L		18 X 24 18 X 24			
				W1-8L W1-8R	CHEVRON (BACK TO BACK)	18 X 24	1		
				W1-8R	CURVE RIGHT 36 X 36				
M 1115				W13-1P	SPEED ADVISORY (45 MPH)	18 X 18	1		1
				W1-2R	CURVE RIGHT	36 X 36			
				W13-1P	SPEED ADVISORY (50 MPH)	18 X 18	1		1
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24		4	
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		I	
				W1-8L	CHEVRON	18 X 24		1	
(18)	29.748015	-97.270507	Curve 1	W1-8R	(BACK TO BACK)	18 X 24			
9				W1-8L		18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			1
				W1-8L	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8R		18 X 24			REMOVE SM RD SN SUP&AM
				W1-8L	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8R	, , , , , , , , , , , , , , , , , , ,	18 X 24			
				W1-8L	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8R		18 X 24			
				W1-2L W13-1P	CURVE LEFT SPEED ADVISORY (50 MPH)	36 X 36 18 X 18	1		1
				VV 13-1P	· · ·	HEET TOTALS	4	17	

ons\DGN\YKM AREA OFFICE\ PATH: T:YKMTRAFMAINTDesign Projects/FY 23(Chevron FILE: YKM AREA OFFICE_Summary of Small Signs.dgn DATE: 2/23/2024





	NRD. NO.	PROJECT NO.				
	5	RMC 6462-56-001				
CONT.	SECT.	JOB	HIGHWAY NO.			
			FM 531, ETC.			
STATE	DIST.	COUNTY	SHEET NO.			
TEXAS	YKM	LAVACA, ETC.	18			

							644 - 6004	644-6061	644 - 6076
REFERENCE #	LATITUDE	LONGITUDE	LOCATION	SIGN DESIGNATION	SIGN CONTENT	SIGN DIMENSIONS	SUP&AM	IN SM RD SN SUP&AM TYTWT(1)WS (T)	REMOVE SM RD SN SUP&AM
							EA	EA	EA
FAYETTE COU	INTY								
FM 1291	[1				1		,r	
				W1-2R	CURVE RIGHT	36 X 36	1		1
				W13-1P	SPEED ADVISORY (45 MPH)	18 X 18			
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			SM RD SN SUP&AM TWT(1)WS REMOVE SM RD SN SUP&AM EA EA I I 1 I
			W1-8L	CHEVRON	18 X 24		1		
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L	CHEVRON	18 X 24		1	
			W1-8R	(BACK TO BACK)	18 X 24				
			W1-8L	CHEVRON	18 X 24		1		
(19)	(19) 30.06614	-96.796763	Curve 1	W1-8R	(BACK TO BACK)	18 X 24			
	30.730700	Guive I	W1-8L	CHEVRON	18 X 24		1		
				W1-8R	(BACK TO BACK)	18 X 24	<u> </u>		
				W1-8L	CHEVRON	18 X 24		1	EA EA 1
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-2L	CURVE LEFT	36 X 36	4		
				W13-1P	SPEED ADVISORY (45 MPH)	18 X 18	1		I
FM 1457	1			1					
				W1-2R	CURVE RIGHT	36 X 36			
				W13-1P	SPEED ADVISORY (40 MPH)	18 X 18	1		1
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L	CHEVRON	18 X 24			
20	30.0777	-96.678253	Curve 1	W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24			1
				W1-2L	CURVE LEFT	36 X 36			
				W13-1P	SPEED ADVISORY (40 MPH)	18 X 18	1		1
FM 1965	1			1					
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24			SUP&AM EA 1 1 1 1 1 1 1 1 1
				W1-8L	CHEVRON	18 X 24			
\bigcirc				W1-8R	(BACK TO BACK)	18 X 24			
21	29.788937	-96.840297	Curve 1	W1-8L	CHEVRON	18 X 24			
	1			W1-8R	(BACK TO BACK)	18 X 24			
						1			
				W1-2L	CURVE LEFT	36 X 36			
					CURVE LEFT SPEED ADVISORY (35 MPH)	36 X 36 18 X 18	1		1

SUMMARY OF SMALL SIGNS

644-6004 644-6061 644-6076





	.RD. .NO.	PROJECT NO.				
6	5	RMC 6462-56-001				
CONT.	SECT.	JOB	HIGHWAY NO.			
			FM 531, ETC.			
STATE	DIST.	COUNTY	SHEET NO.			
TEXAS	YKM	LAVACA, ETC.	19			

				SUMM	ARY OF SMALL SIGNS				
							644-6004	644-6061	644-6076
REFERENCE #	LATITUDE	LONGITUDE	LOCATION	SIGN DESIGNATION	SIGN CONTENT	SIGN DIMENSIONS	SUP&AM	IN SM RD SN SUP&AM TYTWT(1)WS (T)	REMOVE SM RD SN SUP&AM
							EA	EA	EA
FAYETTE COL	INTY								
FM 2145				14/4 00		26 X 26			
				W1-2R W13-1P	CURVE RIGHT SPEED ADVISORY (50 MPH)	36 X 36 18 X 18	1		1
				W13-1P W1-8L	· · · · ·	18 X 24			
				W1-8L W1-8R	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8L		18 X 24			
				W1-8R	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			P&AM VT(1)WS (T) EA EA 1 1
\sim				W1-8R	(BACK TO BACK)	18 X 24		1	
22	30.05996	-96.810915	Curve 1	W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24		4	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-2L	CURVE LEFT	36 X 36	1		1
				W13-1P	SPEED ADVISORY (50 MPH)	18 X 18			
					S	HEET TOTALS	2	8	2
					FAYETTE COU	JNTY TOTALS	17	64	17





	NRD. NO.	PROJECT NO.				
	5	RMC 6462-56-001				
CONT.	SECT.	JOB	HIGHWAY NO.			
			FM 531, ETC.			
STATE	DIST.	COUNTY	SHEET NO.			
TEXAS	YKM	LAVACA, ETC.	20			

				SUMM	ARY OF SMALL SIGNS				
							644-6004	644-6061	644-6076
REFERENCE #	LATITUDE	LONGITUDE	LOCATION	SIGN DESIGNATION	SIGN CONTENT	SIGN DIMENSIONS	SUP&AM	IN SM RD SN SUP&AM TYTWT(1)WS (T)	REMOVE SM RD SN SUP&AM
GONZALES CO							EA	EA	EA
FM 533									
				W1-2L	CURVE LEFT	36 X 36			
				W13-1P	SPEED ADVISORY (50 MPH)	18 X 18	1		1
				W1-8L	CHEVRON	18 X 24		_	
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24		1	_
				W1-8R	(BACK TO BACK)	18 X 24	18 X 24 18 X 24 1		
23 29,396995				W1-8L	CHEVRON	18 X 24		1	
	-97.251028	Curve 1	W1-8R	(BACK TO BACK)	18 X 24				
	-57.251020		W1-8L	CHEVRON	18 X 24		1		
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L		18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8R	(BAOK TO BAOK)	18 X 24			1
				W1-8L	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8R W1-2R	CURVE RIGHT	18 X 24 36 X 36			
				W1-21	SPEED ADVISORY (50 MPH)	18 X 18	1		1
-M 533				W13-11		10 / 10			
				W1-2L	CURVE LEFT	36 X 36			
				W13-1P	SPEED ADVISORY (45 MPH)	18 X 18	1		1
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24		SUP&AM TYTWT(1)WS REMOVE SM RD SN SUP&AM EA EA I 1 1 1	
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24		1	
24	29.417188	-97.249667	Curve 2	W1-8R	(BACK TO BACK)	18 X 24		I	
9	23.41/100	-37.249007	Guive 2	W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		'	
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L		18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L		18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8R		18 X 24			
				W1-2R		36 X 36	1		1
				W13-1P	SPEED ADVISORY (45 MPH)	18 X 18			





	NRD. NO.	PROJECT NO.				
	5	RMC 6462-56-001				
CONT. SECT.		JOB	HIGHWAY NO.			
			FM 531, ETC.			
STATE	DIST.	COUNTY	SHEET NO.			
TEXAS	YKM	LAVACA, ETC.	21			

				SUMM	ARY OF SMALL SIGNS				
REFERENCE #	LATITUDE	LONGITUDE	LOCATION	SIGN DESIGNATION	SIGN CONTENT	SIGN DIMENSIONS	SUP&AM	644-6061 IN SM RD SN SUP&AM TYTWT(1)WS (T)	644-6076 REMOVE SM RD SN SUP&AM
							EA	EA	EA
GONZALES C	OUNTY								
FM 795				W1-4L	LEFT REVERSE CURVE	36 X 36			
				W13-1P	SPEED ADVISORY (45 MPH)	18 X 18	1		1
				W13-11 W1-8L	· · ·	18 X 24			
				W1-8E	CHEVRON (BACK TO BACK)	18 X 24	-	1	
				W1-8L		18 X 24			
				W1-8R	CHEVRON (BACK TO BACK)	18 X 24		1	
25	29.514925	-97.412612	Curve 1	W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				CHEVICON	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
6	00 507450	07.000000	• •	W1-8L	CHEVRON	18 X 24		,	
26	29.537453	-97.286933	Curve 2	W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-4L	LEFT REVERSE CURVE	36 X 36	1		1
				W13-1P	SPEED ADVISORY (45 MPH)	18 X 18			I
					S	HEET TOTALS	2	9	2





	NRD. NO.	PROJECT NO.				
	5	RMC 6462-56-001				
CONT. SECT.		JOB	HIGHWAY NO.			
			FM 531, ETC.			
STATE	DIST.	COUNTY	SHEET NO.			
TEXAS	YKM	LAVACA, ETC.	22			

				SUMM	ARY OF SMALL SIGNS				
							644-6004	644-6061	644-6076
REFERENCE #	LATITUDE	LONGITUDE	LOCATION	SIGN DESIGNATION	N SIGN CONTENT	SIGN DIMENSIONS	SUP&AM	IN SM RD SN SUP&AM TYTWT(1)WS (T)	REMOVE SM RD SN SUP&AM
							EA	EA	EA
GONZALES CO	DUNTY								
FM 795				W4 4D		00.14.00			
				W1-4R		36 X 36	1		1
				W13-1P W1-8L	SPEED ADVISORY (40 MPH)	18 X 18 18 X 24			
				W1-8L W1-8R	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8K	· · · ·	18 X 24		EA	
27				W1-8R	CHEVRON (BACK TO BACK)	18 X 24	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
				W1-8L		18 X 24			
				W1-8R	CHEVRON (BACK TO BACK)	18 X 24		1	
	29.524607	-97.289367	Curve 3	W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		I	
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		'	
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L	CHEVRON	18 X 24		1	
28	29.524577	-97.287758	Curve 4	W1-8R	(BACK TO BACK)	18 X 24			
9				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L		18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L		18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-4R	RIGHT REVERSE CURVE	36 X 36	1		1
				W13-1P	SPEED ADVISORY (40 MPH)	18 X 18			
					S	HEET TOTALS	2	14	2





	D.RD. NO.	PROJECT NO.				
	5	RMC 6462-56-001				
CONT.	SECT.	JOB	HIGHWAY NO.			
			FM 531, ETC.			
STATE	DIST.	COUNTY	SHEET NO.			
TEXAS	YKM	LAVACA, ETC.	23			

LATITUDE	LONGITUDE	LOCATION	SIGN DESIGNATION	SIGN CONTENT	SIGN DIMENSIONS	SUP&AM TY10BWG(1)	644-6061 IN SM RD SN SUP&AM	644-6076 REMOVE SM RD SN
	LONGITUDE	LOCATION		SIGN CONTENT	SIGN DIMENSIONS	SUP&AM TY10BWG(1)	SUP&AM	
JNTY						SA(T)	(T)	SUP&AM
JNTY						EA	EA	EA
			W1-2L	CURVE LEFT	36 X 36	1		1
			W13-1P	SPEED ADVISORY (50MPH)	18 X 18	I		
			W1-8L	CHEVRON	18 X 24		1	
			W1-8R	(BACK TO BACK)	18 X 24			
			W1-8L	CHEVRON	18 X 24			
			W1-8R	(BACK TO BACK)	18 X 24		1 1 1 1 1 1 1	
			W1-8L	CHEVRON	18 X 24			
29.713887	-97.302983	Curve 2	W1-8R	(BACK TO BACK)	18 X 24		1	
			W1-8L	CHEVRON	18 X 24			
			W1-8R	(BACK TO BACK)	18 X 24		1	
			W1-8L		18 X 24			
			W1-8R	CHEVRON (BACK TO BACK)	18 X 24		1	
			W1-8R	CURVE RIGHT	36 X 36			
						1		1
			W13-1P	SPEED ADVISORY (50 MPH)	18 X 18			
			W1-5R	RIGHT WINDING ROAD	36 X 36			
						1		1
				. ,				
							1	
29.680725	-97.261471	Curve 1			-		1	
				(BACK TO BACK)				
				CHEVRON			1	
			W1-8R	(BACK TO BACK)	18 X 24			
			W1-8L	CHEVRON	18 X 24		1	
			W1-8R	(BACK TO BACK)	18 X 24			
			W1-8L	CHEVRON	18 X 24		1	
			W1-8R	(BACK TO BACK)	18 X 24			
			W1-8L	CHEVRON	18 X 24			
			W1-8R	(BACK TO BACK)	18 X 24			
00.0700.40	07.050000	0 0	W1-8L	CHEVRON	18 X 24			
29.676848	-97.252609	Curve 2	W1-8R	(BACK TO BACK)	18 X 24		1	
			W1-8L	CHEVRON	18 X 24			
			W1-8R	(BACK TO BACK)	18 X 24		1	
			W1-5R	RIGHT WINDING ROAD	36 X 36			
			W13-1P			1		1
						4	13	4
				- -			L	
	29.680725			29.676848 -97.252609 Curve 2	29.680725 -97.261471 Curve 1 W1-8L W1-8R CHEVRON (BACK TO BACK) W1-8L CHEVRON (BACK TO BACK) W1-8L W1-8R CHEVRON (BACK TO BACK) W1-8L CHEVRON (BACK TO BACK) W1-8L W1-8R CHEVRON (BACK TO BACK) W1-8L CHEVRON (BACK TO BACK) W1-8L W1-8R CHEVRON (BACK TO BACK) W1-8R CHEVRON (BACK TO BACK) W1-8R (BACK TO BACK) W1-8R CHEVRON (BACK TO BACK)	29.680725 -97.261471 W1-8L CHEVRON (BACK TO BACK) 18 X 24 W1-8R CHEVRON (BACK TO BACK) 18 X 24 W1-8L CHEVRON (BACK TO BACK) 18 X 24 W1-8R CHEVRON (BACK TO BA	29.680725 -97.261471	$ 29.680725 \ -97.261471 \ \left. \begin{array}{c c c c c c } & W1-8L & CHE VRON \\ \hline W1-8L & CHE VRON \\ \hline W1-8R & (BACK TO BACK) \\ \hline W1-8L & CHE VRON \\ \hline W1-8R & (BACK TO BACK) \\ \hline W1-8R & (CHE VRON \\ \hline W1-8R & (BACK TO BACK) \\ \hline W1-8R & (BACK$





	NRD. NO.	PROJECT NO.				
	5	RMC 6462-56-001				
CONT. SECT.		JOB	HIGHWAY NO.			
			FM 531, ETC.			
STATE	DIST.	COUNTY	SHEET NO.			
TEXAS	YKM	LAVACA, ETC.	24			

				SUMM	ARY OF SMALL SIGNS				
							644-6004	644-6061	644-6076
REFERENCE #	LATITUDE	LONGITUDE	LOCATION	SIGN DESIGNATION	SIGN CONTENT	SIGN DIMENSIONS	SUP&AM	IN SM RD SN SUP&AM TYTWT(1)WS (T)	REMOVE SM RD SN SUP&AM
							EA	EA	EA
LAVACA COUI	NTY							II	
FM 318									
				W1-4R	RIGHT REVERSE CURVE	36 X 36	1		1
				W13-1P	SPEED ADVISORY (50 MPH)	18 X 18	1		1
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
32				W1-8L		18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
	29.390097	-97.004053	Curve 1	W1-8L	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8R	· · ·	18 X 24			
				W1-8L W1-8R	CHEVRON (BACK TO BACK)	18 X 24 18 X 24		1	
				W1-8L	· · ·	18 X 24			
				W1-8L W1-8R	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8K W1-8L	, , , , , , , , , , , , , , , , , , ,	18 X 24			
				W1-8R	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24		1	
33	29.392482	-96.996632	Curve 7	W1-8R	(BACK TO BACK)	18 X 24		1	
	29.392402	-90.990032	Curve /	W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		'	
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-4R	RIGHT REVERSE CURVE	36 X 36	1		1
				W13-1P	SPEED ADVISORY (50 MPH)	18 X 18			
					S	HEET TOTALS	2	15	2





	.RD. .NO.	PROJECT NO.				
	5	RMC 6462-56-001				
CONT. SECT.		JOB	HIGHWAY NO.			
			FM 531, ETC.			
STATE	DIST.	COUNTY	SHEET NO.			
TEXAS	YKM	LAVACA, ETC.	25			

				SUMM	ARY OF SMALL SIGNS				
							644-6004	644-6061	644-6076
REFERENCE #	LATITUDE	LONGITUDE	LOCATION	SIGN DESIGNATION	N SIGN CONTENT	SIGN DIMENSIONS	SUP&AM	IN SM RD SN SUP&AM TYTWT(1)WS (T)	REMOVE SM RD SN SUP&AM
							EA	EA	EA
LAVACA COUI FM 340									
F IVI 340				W1-5L	LEFT WINDING ROAD	36 X 36			
				W13-1P	SPEED ADVISORY (45 MPH)	18 X 18	1		1
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
(34)	29.441143	-96.99221	Curve 2	W1-8L	CHEVRON	18 X 24		1	
9	23.441145	-30.33221	Curve 2	W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L			1		
				W1-8R	,	18 X 24			
				W1-8L	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8R	, , ,	18 X 24			
-				W1-8L W1-8R	CHEVRON (BACK TO BACK)	18 X 24 18 X 24		1	
35	29.447142	-96.994853	Curve 1	W1-8R W1-8L	, ,	18 X 24			
				W1-8L W1-8R	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8K W1-8L	, , , , , , , , , , , , , , , , , , ,	18 X 24			
				W1-8R	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
	29.449345 -			W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
(36)		-96.99833	Curve 3	W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24		4	
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-5R	RIGHT WINDING ROAD	36 X 36	1		1
				W13-1P	SPEED ADVISORY (45 MPH)	18 X 18	Ι		I
M 340									
				W1-2R	CURVE RIGHT	36 X 36	1		1
				W13-1P	SPEED ADVISORY (50 MPH)	18 X 18			
				W1-8L		18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8R	· ·	18 X 24			
				W1-8L W1-8R	CHEVRON (BACK TO BACK)	18 X 24 18 X 24		1	
				W1-8R W1-8L		18 X 24 18 X 24			
~				W1-8L W1-8R	CHEVRON (BACK TO BACK)	18 X 24		1	
37	29.492063	-97.018842	Curve 7	W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24		4	
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-2L	CURVE LEFT	36 X 36	1		1
				W13-1P	SPEED ADVISORY (50 MPH)	18 X 18			
						HEET TOTALS	4	20	4





	.RD. .NO.	PROJECT NO.				
6	5	RMC 6462-56-001				
CONT. SECT.		JOB	HIGHWAY NO.			
			FM 531, ETC.			
STATE	DIST.	COUNTY	SHEET NO.			
TEXAS	YKM	LAVACA, ETC.	26			

				SUMM	ARY OF SMALL SIGNS				
							644-6004	644-6061	644-6076
REFERENCE #	LATITUDE	LONGITUDE	LOCATION	SIGN DESIGNATION	SIGN CONTENT	SIGN DIMENSIONS	SUP&AM	IN SM RD SN SUP&AM TYTWT(1)WS (T)	REMOVE SM RD SN SUP&AM
							EA	EA	EA
LAVACA COU	NTY								
FM 531				1					
				W1-2R	CURVE RIGHT	36 X 36	1		1
				W13-1P	SPEED ADVISORY (45 MPH)	18 X 18			
				W1-8L		18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L		18 X 24		1	
			Curve 1	W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L	CHEVRON (BACK TO BACK) CHEVRON (BACK TO BACK)	18 X 24		1	
(38)	29.310967	-97.006033		W1-8R		18 X 24			
0				W1-8L		18 X 24		1	
				W1-8R		18 X 24		-	
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-2L	CURVE LEFT	36 X 36	1		1
				W13-1P	SPEED ADVISORY (45 MPH)	18 X 18	1		I
				W1-1R	RIGHT TURN	36 X 36	1		1
				W13-1P	SPEED ADVISORY (30 MPH)	18 X 18	I		I
				W1-8L	CHEVRON	18 X 24		4	
				W1-8R	(BACK TO BACK)	18 X 24		1	
\bigcirc	00.000500	00.007400	0	W1-8L	CHEVRON	18 X 24			
(39)	29.309538	-96.997422	Curve 2	W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-1L	LEFT TURN	36 X 36			
				W13-1P	SPEED ADVISORY (30 MPH)	18 X 18	1		1
	1		1	1	· · · · · · · · · · · · · · · · · · ·	HEET TOTALS	4	9	4





	NRD. NO.	PROJECT NO.				
	5	RMC 6462-56-001				
CONT.	SECT.	JOB	HIGHWAY NO.			
			FM 531, ETC.			
STATE	DIST.	COUNTY	SHEET NO.			
TEXAS	YKM	LAVACA, ETC.	27			

				SUMM	ARY OF SMALL SIGNS				
							644-6004	644-6061	644-6076
REFERENCE #	LATITUDE	LONGITUDE	LOCATION	SIGN DESIGNATION	SIGN CONTENT	SIGN DIMENSIONS	SUP&AM	IN SM RD SN SUP&AM TYTWT(1)WS (T)	REMOVE SM RD SN SUP&AM
							EA	EA	EA
LAVACA COU	NTY								
FM 531						1			
				W1-4L	LEFT REVERSE CURVE	36 X 36	1		1
				W13-1P	SPEED ADVISORY (45 MPH)	18 X 18			
				W1-8L		18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
(40)	29.292645	-96.984257	Curve 3A	W1-8L	CHEVRON	18 X 24		1	
U				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8R		18 X 24			
				W1-8L	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8R		18 X 24			
				W1-8L	CHEVRON (BACK TO BACK)	18 X 24		1	
				W1-8R		18 X 24		1	
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		I	
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		I	
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		I	
	00 000500	00 000707	0.000	W1-8L	CHEVRON	18 X 24			
41	29.293599	-96.980767	Curve 3B	W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24		_	
				W1-8R	(BACK TO BACK)	18 X 24	1	1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24			
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-4L	LEFT REVERSE CURVE	36 X 36			
				W13-1P	SPEED ADVISORY (45 MPH)	18 X 18	1		1
I		1	1	1		HEET TOTALS	2	14	2





	NRD. NO.	PROJECT NO.				
	5	RMC 6462-56-001				
CONT.	SECT.	JOB	HIGHWAY NO.			
			FM 531, ETC.			
STATE	DIST.	COUNTY	SHEET NO.			
TEXAS	YKM	LAVACA, ETC.	28			

				SUMM	ARY OF SMALL SIGNS				
							644-6004	644-6061	644-6076
REFERENCE #	LATITUDE LON	LONGITUDE	LOCATION	SIGN DESIGNATION	SIGN CONTENT	SIGN DIMENSIONS	IN SM RD SN SUP&AM TY10BWG(1) SA(T)	SUP&AM	REMOVE SM RD SN SUP&AM
							EA	EA	EA
LAVACA COU	NTY								
FM 531	1					1			
				W1-2L	CURVE LEFT	36 X 36	1		1
				W13-1P	SPEED ADVISORY (35 MPH)	18 X 18			
				W1-8L		18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
(42)	29.30316	-97.014142	Curve 6	W1-8L	CHEVRON	18 X 24		1	
G				W1-8R	(BACK TO BACK)	18 X 24			
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-2R	CURVE RIGHT	36 X 36	1		1
				W13-1P	SPEED ADVISORY (35 MPH)	18 X 18	•		•
FM 531								· · · · · · · · · · · · · · · · · · ·	
				W1-1R	RIGHT TURN	36 X 36	1		1
				W13-1P	SPEED ADVISORY (25 MPH)	18 X 18	•		I
				W1-8L	CHEVRON	18 X 24		1	
(43)	29.392743	-97.100878	Curve 8	W1-8R	(BACK TO BACK)	18 X 24			
	20.002140	37.100070	Ourve o	W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24			
				W1-1L	LEFT TURN	36 X 36	1		1
				W13-1P	SPEED ADVISORY (25 MPH)	18 X 18	•		•
FM 531	1					1		· · · · · · · · · · · · · · · · · · ·	
				W1-2L	CURVE LEFT	36 X 36	1		1
				W13-1P	SPEED ADVISORY (45 MPH)	18 X 18			•
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		'	
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		'	
(44)	29.290227	-96.974743	Curve 10	W1-8L	CHEVRON	18 X 24		1	
	20.200221	-30.374743		W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		1	
				W1-8L	CHEVRON	18 X 24		1	
				W1-8R	(BACK TO BACK)	18 X 24		I	
				W1-2R	CURVE RIGHT	36 X 36	1		1
				W13-1P	SPEED ADVISORY (45 MPH)	18 X 18	1		1
					S	HEET TOTALS	6	10	6





	D.RD. NO.	PROJECT	NO.	
	5	RMC 6462-56-001		
CONT.	SECT.	JOB	HIGHWAY NO.	
			FM 531, ETC.	
STATE	DIST.	COUNTY	SHEET NO.	
TEXAS	YKM	LAVACA, ETC.	29	

				SUMM	ARY OF SMALL SIGNS					
EFERENCE #	LATITUDE	LONGITUDE	LOCATION	SIGN DESIGNATION SIGN CONTENT DI	SIGN DIMENSIONS	SUP&AM	644-6061 IN SM RD SN SUP&AM TYTWT(1)WS (T)	644-6076 REMOVE SM RD SN SUP&AM		
							EA	EA	EA	
AVACA COU	NTY									
M 532		1		I						
				W1-4L	LEFT REVERSE CURVE	36 X 36	1		1	
				W13-1P	SPEED ADVISORY (45 MPH)	18 X 18				
				W1-8L	CHEVRON (BACK TO BACK)	18 X 24		1		
				W1-8R W1-8L	, ,	18 X 24				
				W1-8L W1-8R	CHEVRON (BACK TO BACK)	18 X 24 18 X 24		1		
45	29.560523	-97.191572	Curve 1	W1-8K W1-8L		18 X 24				
				W1-8E	CHEVRON (BACK TO BACK)	18 X 24		1		
				W1-8L	CHEVRON (BACK TO BACK)	18 X 24				
				W1-8R		18 X 24		1		
				W1-4L	LEFT REVERSE CURVE	36 X 36				
				W13-1P	SPEED ADVISORY (45 MPH)	18 X 18	1		1	
A 532				11						
				W1-4R	RIGHT REVERSE CURVE	36 X 36				
					W13-1P	SPEED ADVISORY (45 MPH)	18 X 18	1		1
				W1-8L	CHEVRON	18 X 24		4		
				W1-8R	(BACK TO BACK)	18 X 24		1		
(46)	29.559152	-97.196258	Curve 3	W1-8L	CHEVRON	18 X 24		1		
40	29.009102	-97.190230	Curve 5	W1-8R	(BACK TO BACK)	18 X 24				
				W1-8L	CHEVRON	18 X 24		1		
				W1-8R	(BACK TO BACK)	18 X 24				
				W1-4R	RIGHT REVERSE CURVE	36 X 36	1		1	
				W13-1P	SPEED ADVISORY (45 MPH)	18 X 18				
A 532						001/05		T		
				W1-4L		36 X 36	1		1	
				W13-1P W1-8L	SPEED ADVISORY (45 MPH)	18 X 18 18 X 24				
-				W1-8L W1-8R	CHEVRON (BACK TO BACK)	18 X 24 18 X 24		1		
47	29.564695	-97.109363	Curve 5	W1-8K W1-8L		18 X 24				
				W1-8L W1-8R	CHEVRON (BACK TO BACK)	18 X 24		1		
				W1-dix W1-4L	LEFT REVERSE CURVE	36 X 36				
				W13-1P	SPEED ADVISORY (45 MPH)	18 X 18	1		1	
	l	1	I			HEET TOTALS	6	9	6	
								I		
					LAVACA CO	UNTY TOTALS	24	77	24	
			D	N/ITT EAVETT	E, GONZALES AND LAVACA CO	ΙΝΤΥ ΤΟΤΑΙ S	73	264	73	

ITEM 6185	QUANTITY (DAY)
TMA (STATIONARY)	45





	D.RD. NO.	PROJECT NO.				
	5	RMC 6462-56-001				
CONT.	SECT.	JOB	HIGHWAY NO.			
			FM 531, ETC.			
STATE	DIST.	COUNTY	SHEET NO.			
TEXAS	YKM	LAVACA, ETC.	30			

BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

- The Barricade and Construction Standard Sheets (BC sheets) are intended 1. to show typical examples for placement of temporary traffic control devices, construction pavement markings, and typical work zone signs. The information contained in these sheets meet or exceed the requirements shown in the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- The development and design of the Traffic Control Plan (TCP) is the 2. responsibility of the Engineer.
- The Contractor may propose changes to the TCP that are signed and sealed by a licensed professional engineer for approval. The Engineer may develop. sign and seal Contractor proposed changes.
- 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.
- 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.
- 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.
- The temporary traffic control devices shown in the illustrations of the 9. 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, ČSJ limit signs are not required.
- 11. Traffic control devices should be in place only while work is actually in progress or a definite need exists.
- 12. The Engineer has the final decision on the location of all traffic control devices.
- 13. Inactive equipment and work vehicles, including workers' private vehicles must be parked away from travel lanes. They should be as close to the right-of-way line as possible, or located behind a barrier or guardrail, or as approved by the Engineer.

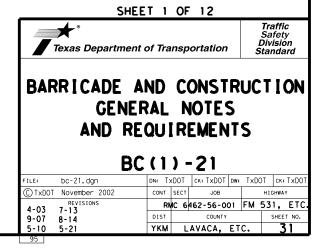
WORKER SAFETY NOTES:

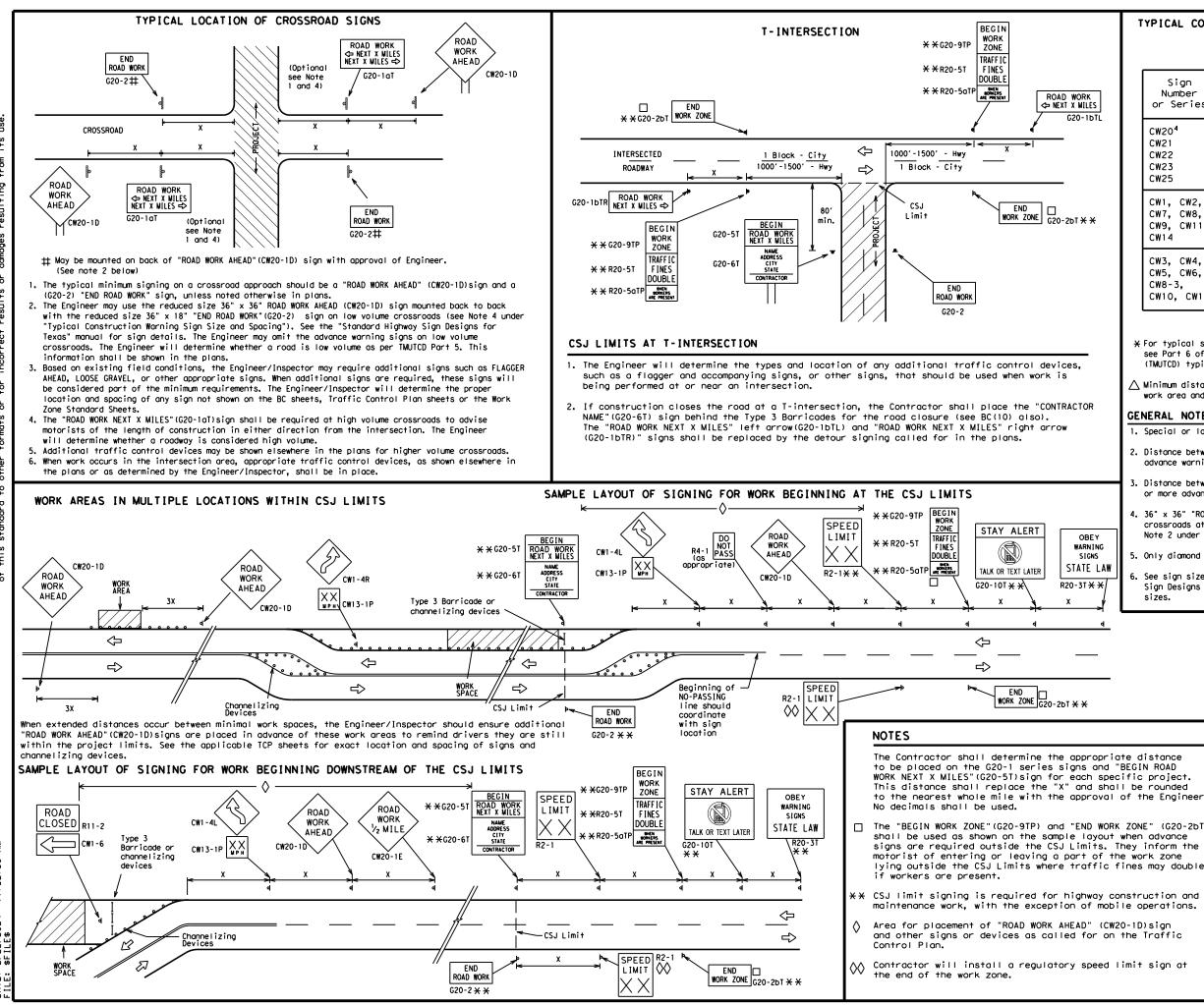
- 1. Workers on foot who are exposed to traffic or to construction equipment within the right-of-way shall wear high-visibility safety apparel meeting the requirements of ISEA "American National Standard for High-Visibility" Apparel," or equivalent revisions, and labeled as ANSI 107-2004 standard performance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

COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

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

THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT http://www.txdot.gov						
COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST (CWZTCD)						
DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS)						
MATERIAL PRODUCER LIST (MPL)						
ROADWAY DESIGN MANUAL - SEE "MANUALS (ONLINE MANUALS)"						
STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD)						
TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD)						
TRAFFIC ENGINEERING STANDARD SHEETS						





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TYPICAL	CONSTRUCTION	WARNING	SIGN	SIZE	AND	SPACING ^{1,5,6}

SIZE

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

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

SPACING

★ 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.

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

GENERAL NOTES

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

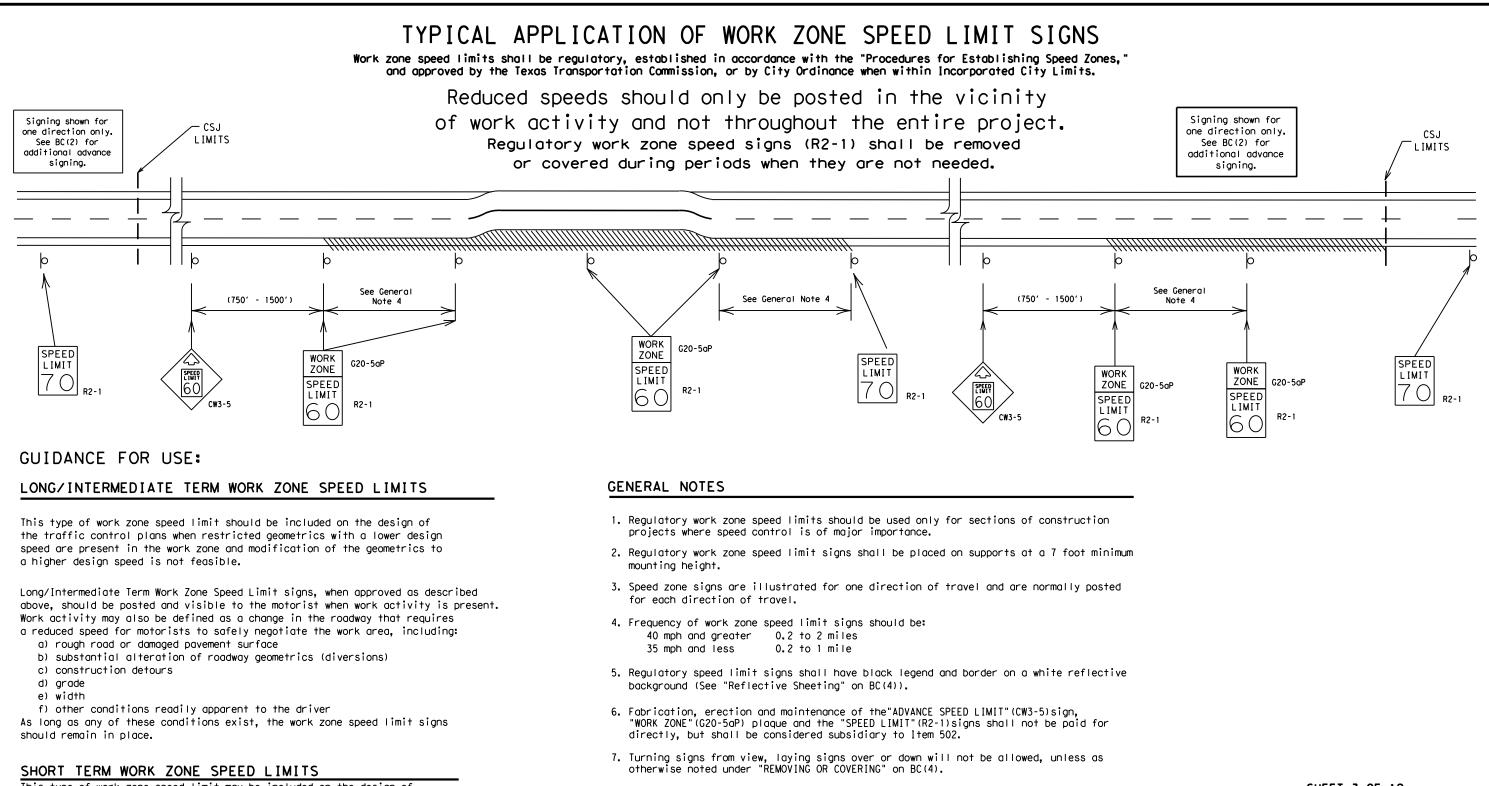
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6. See sign size listing in "TMUTCD", Sign Appendix or the "Standard Highway Sign Designs for Texas" manual for complete list of available sign design sizes.

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	LEGEND											
	ны Туре 3 Barricade											
	000 Channelizing Devices											
	📥 Sign											
-	X See Typical Construction Warning Sign Size and Spacing chart or the TMUTCD for sign spacing requirements.											
			SHEE	Т2	OF	1	2					
r.	Te	🗣 ° xas Depa	rtment o	of Tra	nsp	orta	ation		Ĺ	Trai Safe Divis tan	ety sior	1
e	BARRICADE AND CONSTRUCTION PROJECT LIMIT											
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		lovember 200)2	CONT	SECT	1.041	JOB		1,000	нісн		1001
	U 1/201 1	REVISIONS	-			462-	56-00)1	FM :			FTC
		8-14		DIST			COUNTY				EET	

YKM LAVACA, ETC.

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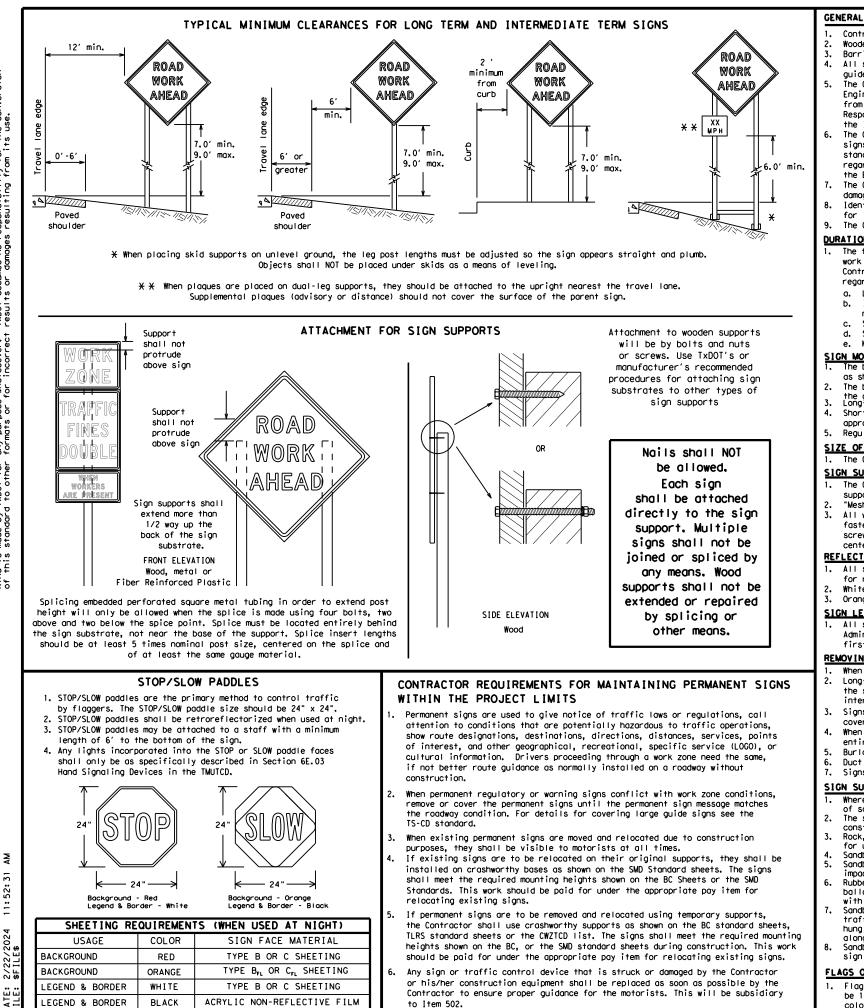


This type of work zone speed limit may be included on the design of the traffic control plans when workers or equipment are not behind concrete barrier, when work activity is within 10 feet of the traveled way or actually in the traveled way.

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)).

- 8. Techniques that may help reduce traffic speeds include but are not limited to: A. Law enforcement.
 - B. Flagger stationed next to sign.
 - C. Portable changeable message sign (PCMS).
 - D. Low-power (drone) radar transmitter.
 - E. Speed monitor trailers or signs.
- 9. Speeds shown on details above are for illustration only. Work Zone Speed Limits should only be posted as approved for each project.
- 10. For more specific guidance concerning the type of work, work zone conditions and factors impacting allowable regulatory construction speed zone reduction see TxDOT form #1204 in the TxDOT e-form system.

SHE	<u>EET 3 0</u>					
Texas Departmen	nt of Trans	portation	Traffic Safety Division Standard			
BARRICADE AND CONSTRUCTION WORK ZONE SPEED LIMIT						
	C(3)		iwiĭ i			
B	C(3)	- 21				
FILE: bc-21.dgn © TxDOT November 2002 REVISIONS	C (3) DN: TXDOT CONT SECT	- 21	TxDOT CK: TXDOT			
FILE: bc-21.dgn ©TxDOT November 2002	C (3) DN: TXDOT CONT SECT	-21 ck: TxDOT dw: JOB	TxDOT CK:TxDOT			



GENERAL NOTES FOR WORK ZONE SIGNS

- Contractor shall install and maintain signs in a straight and plumb condition and/or as directed by the Engineer. Wooden sign posts shall be painted white.
- Barricades shall NOT be used as sign supports
- guide the traveling public safely through the work zone.
- the Inspector's TxDOT diary and having both the Inspector and Contractor initial and date the agreed upon changes. the Engineer can verify the correct procedures are being followed.
- damaged or marred reflective sheeting as directed by the Engineer/Inspector.
- for identification shall be 1 inch.
- The Contractor shall replace damaged wood posts. New or damaged wood sign posts shall not be spliced.

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

- regard to crashworthiness and duration of work requirements.
- a. Long-term stationary work that occupies a location more than 3 days.
- more than one hour.
- Short, duration work that occupies a location up to 1 hour.
- Mobile work that moves continuously or intermittently (stopping for up to approximately 15 minutes.)

SIGN MOUNTING HEIGHT

- as shown for supplemental plaques mounted below other signs.
- the ground. Long-term/Intermediate-term Signs may be used in Lieu of Short-term/Short Duration signing.
- 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.

SIZE OF SIGNS

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

SIGN SUBSTRATES

- "Mesh" type materials are NOT an approved sign substrate, regardless of the tightness of the weave. 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).

SIGN LETTERS

1. All sign letters and numbers shall be clear, and open rounded type uppercase alphabet letters as approved by the Federal Highway first class workmanship in accordance with Department Standards and Specifications.

REMOVING OR COVERING

- When sign messages may be confusing or do not apply, the signs shall be removed or completely covered.
- intersections where the sign may be seen from approaching traffic. 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.
- entire sign face and maintain their opaque properties under automobile headlights at night, without damaging the sign sheeting.
- Burlap shall NOT be used to cover signs. Duct tape or other adhesive material shall NOT be affixed to a sign face.
- 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. The sandbags will be tied shut to keep the sand from spilling and to maintain a
- constant weight. Rock, concrete, iron, steel or other solid objects shall not be permitted
- for use as sign support weights. 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.
- Rubber ballasts designed for channelizing devices should not be used for ballast on portable sign supports. Sign supports designed and manufactured with rubber bases may be used when shown on the CWZTCD list. 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.
- 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.

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All signs shall be installed in accordance with the plans or as directed by the Engineer. Signs shall be used to regulate, warn, and

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 Contractor shall furnish sign supports listed in the "Compliant Work Zone Traffic Control Device List" (CWZICD) 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 guestion regarding installation procedures, the Contractor shall furnish the Engineer a copy of the manufacturer's installation recommendations so

The Contractor is responsible for installing signs on approved supports and replacing signs with damaged or cracked substrates and/or

Identification markings may be shown only on the back of the sign substrate. The maximum height of letters and/or company logos used

The types of sign supports, sign mounting height, the size of signs, and the type of sign substrates can vary based on the type of work being performed. The Engineer is responsible for selecting the appropriate size sign for the type of work being performed. The Contractor is responsible for ensuring the sign support, sign mounting height and substrate meets manufacturer's recommendations in

Intermediate-term stationary - work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting

Short-term stationary - daytime work that occupies a location for more than 1 hour in a single daylight period.

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

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

Regulatory signs shall be mounted at least 7 feet, but not more than 9 feet, above the paved surface regardless of work duration.

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 CWZICD lists each substrate that can be used on the different types and models of sign supports. 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"

White sheeting, meeting the requirements of DMS-8300 Type A, shall be used for signs with a white background. 3. Orange sheeting, meeting the requirements of DMS-8300 Type B_{FL} or Type C_{FL}, shall be used for rigid signs with orange backgrounds.

Administration (FHWA) and as published in the "Standard Highway Sign Design for Texas" manual. Signs, letters and numbers shall be of

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

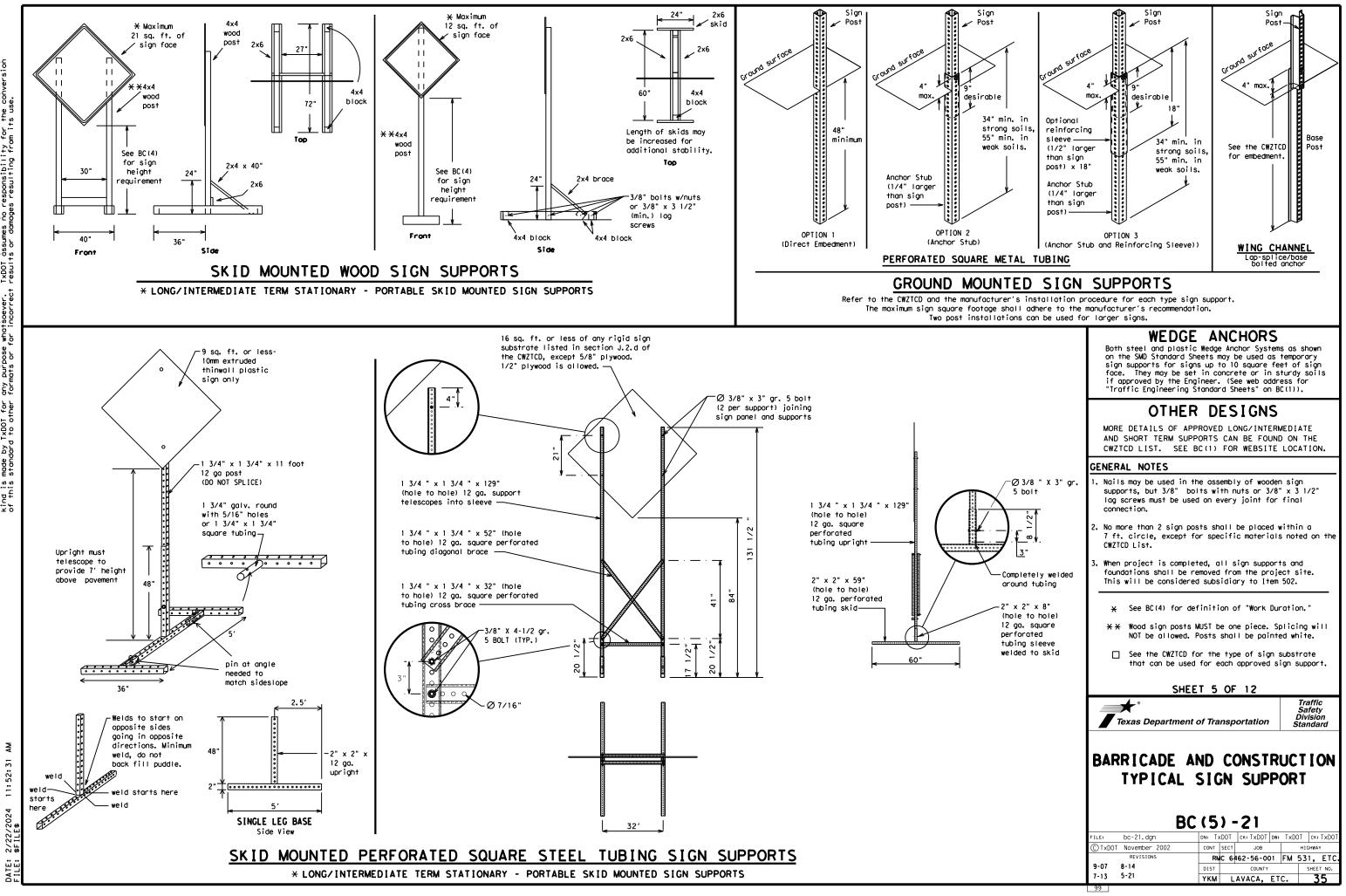
When signs are covered, the material used shall be opaque, such as heavy mil black plastic, or other materials which will cover the

SHEET 4 OF 12

st Texas Department of Transportation Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES

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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

PORTABLE CHANGEABLE MESSAGE SIGNS

- 1. 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 2. eight characters per word), not including simple words such as "TO," "FOR, " "AT, " etc.
- 3. Messages should consist of a single phase, or two phases that alternate. Three-phase messages are not allowed. Each phase of the message should convey a single thought, and must be understood by itself.
- 4. Use the word "EXIT" to refer to an exit ramp on a freeway; i.e., "EXIT CLOSED." Do not use the term "RAMP."
- Always use the route or interstate designation (IH, US, SH, FM) 5. 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 7. start on Saturday morning and end by Sunday evening at midnight. Actual days and hours of work should be displayed on the PCMS if work is to begin on Friday evening and/or continue into Monday morning.
- 8. The Engineer/Inspector may select one of two options which are available for displaying a two-phase message on a PCMS. Each phase may be displayed for either four seconds each or for three seconds each.
- Do not "flash" messages or words included in a message. The message should be steady burn or continuous while displayed.
- 10. Do not present redundant information on a two-phase message; i.e., keeping two lines of the message the same and changing the third line.
- 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.
- 13. Do not display messages that scroll horizontally or vertically across the face of the sign.
- 14. The following table lists abbreviated words and two-word phrases that are acceptable for use on a PCMS. Both words in a phrase must be displayed together. Words or phrases not on this list should not be abbreviated, unless shown in the TMUTCD.
- 15. PCMS character height should be at least 18 inches for trailer mounted units. They should be visible from at least 1/2 (.5) mile and the text should be legible from at least 600 feet at night and 800 feet in daylight. Truck mounted units must have a character height of 10 inches and must be legible from at least 400 feet.
- 16. Each line of text should be centered on the message board rather than left or right justified.
- 17. If disabled, the PCMS should default to an illegible display that will not alarm motorists and will only be used to alert workers that the PCMS has malfunctioned. A pattern such as a series of horizontal solid bars is appropriate.

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RECOMMENDED	PHASES	AND	FORMATS	FOR	PCMS	MESSAGES	DUR
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(The Engineer may approve other messages not specifically covered here.)

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Phase 1: Condition Lists

Road/Lane/Ramp Closure List

FREEWAY CLOSED X MILE	FRONTAGE ROAD CLOSED	ROADWORK XXX FT	ROAD REPAIRS XXXX FT
ROAD CLOSED AT SH XXX	SHOULDER CLOSED XXX FT	FLAGGER XXXX FT	LANE NARROWS XXXX FT
ROAD CLSD AT FM XXXX	RIGHT LN CLOSED XXX FT	RIGHT LN NARROWS XXXX FT	TWO-WAY TRAFFIC XX MILE
RIGHT X LANES CLOSED	RIGHT X LANES OPEN	MERGING TRAFFIC XXXX FT	CONST TRAFFIC XXX FT
CENTER LANE CLOSED	DAYTIME LANE CLOSURES	LOOSE GRAVEL XXXX FT	UNEVEN LANES XXXX FT
NIGHT LANE CLOSURES	I-XX SOUTH EXIT CLOSED	DETOUR X MILE	ROUGH ROAD XXXX FT
VARIOUS LANES CLOSED	EXIT XXX CLOSED X MILE	ROADWORK PAST SH XXXX	ROADWORK NEXT FRI-SUN
EXIT CLOSED	RIGHT LN TO BE CLOSED	BUMP XXXX FT	US XXX EXIT X MILES
MALL DRIVEWAY CLOSED	X LANES CLOSED TUE - FRI	TRAFFIC SIGNAL XXXX FT	LANES SHIFT *
XXXXXXXX BLVD CLOSED	* LANES SHIFT in Phase	1 must be used wit	n STAY IN LANE in Phos

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

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

APPLICATION GUIDELINES

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

WORDING ALTERNATIVES

- 1. The words RIGHT, LEFT and ALL can be interchanged as appropriate.
- appropriate.
- be interchanged as appropriate.
- 4. Highway names and numbers replaced as appropriate.
- 5. ROAD, HIGHWAY and FREEWAY can be interchanged as needed.
- 6. AHEAD may be used instead of distances if necessary. 7. FT and MI. MILE and MILES interchanged as appropriate.
- 8. AT. BEFORE and PAST interchanged as needed.
- 9. Distances or AHEAD can be eliminated from the message if a
- location phase is used.

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

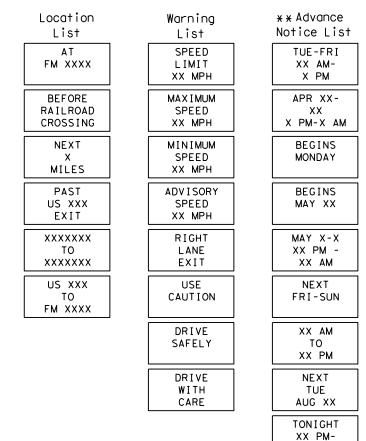
FULL MATRIX PCMS SIGNS

- 1. When Full Matrix PCMS signs are used, the character height and legibility/visibility requirements shall be maintained as listed in Note 15 under "PORTABLE CHANGEABLE MESSAGE SIGNS" above.
- 2. When symbol signs, such as the "Flagger Symbol" (CW20-7) are represented graphically on the Full Matrix PCMS sign and, with the approval of the Engineer, it shall maintain the legibility/visibility requirement listed above
- 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 3. for, or replace that sign.
- 4. A full matrix PCMS may be used to simulate a flashing arrow board provided it meets the visibility, flash rate and dimming requirements on BC(7), for the some size arrow.

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

RING ROADWORK ACTIVITIES

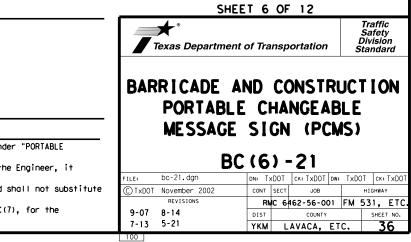
Phase 2: Possible Component Lists

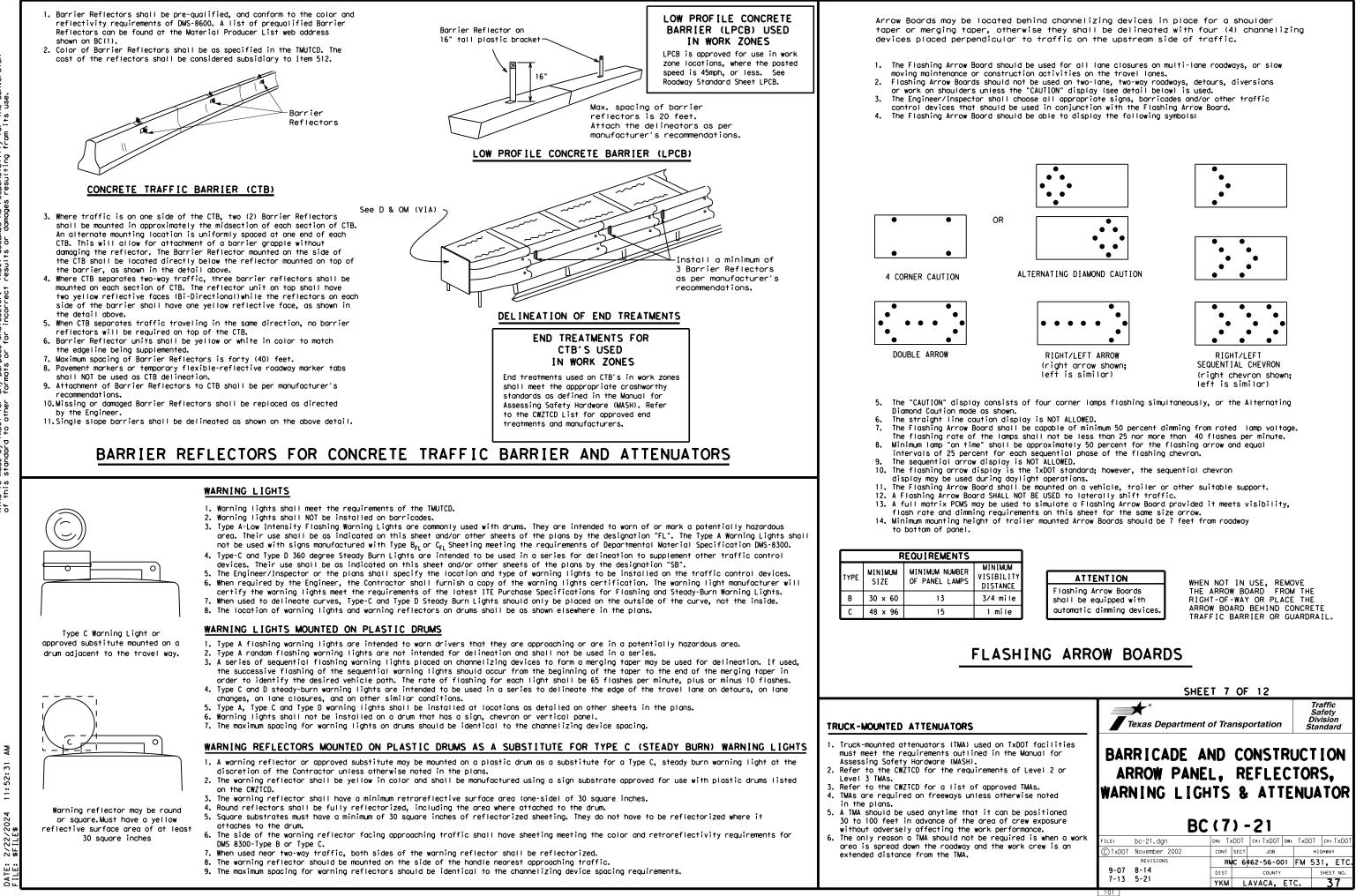


* * See Application Guidelines Note 6.

XX AM

2. Roadway designations IH, US, SH, FM and LP can be interchanged as EAST, WEST, NORTH and SOUTH (or abbreviations E, W, N and S) can





11:52:31 2/22/ DATE:











GENERAL NOTES

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

GENERAL DESIGN REQUIREMENTS

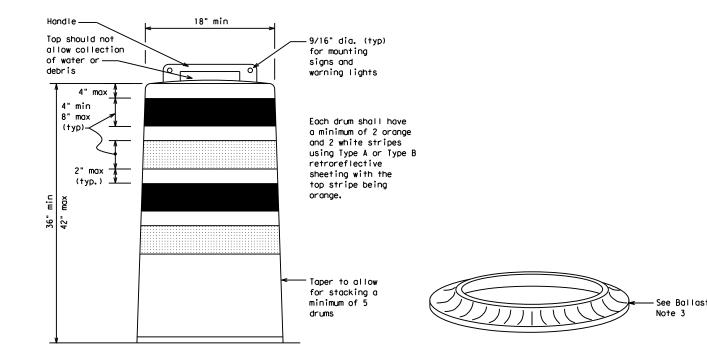
- Pre-gualified plastic drums shall meet the following requirements:
- 1. Plastic drums shall be a two-piece design; the "body" of the drum shall be the top portion and the "base" shall be the bottom.
- 2. The body and base shall lock together in such a manner that the body separates from the base when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

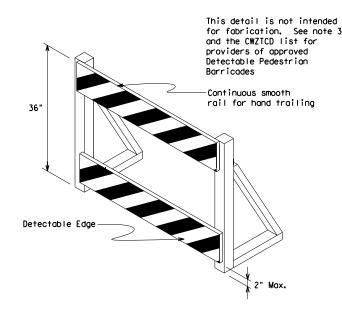
RETROREFLECTIVE SHEETING

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

BALLAST

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





DETECTABLE PEDESTRIAN BARRICADES

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



(Maximum Sign Dimension)

Chevron CW1-8, Opposing Traffic Lane

Divider, Driveway sign D70a, Keep Right

R4 series or other signs as approved

by Engineer



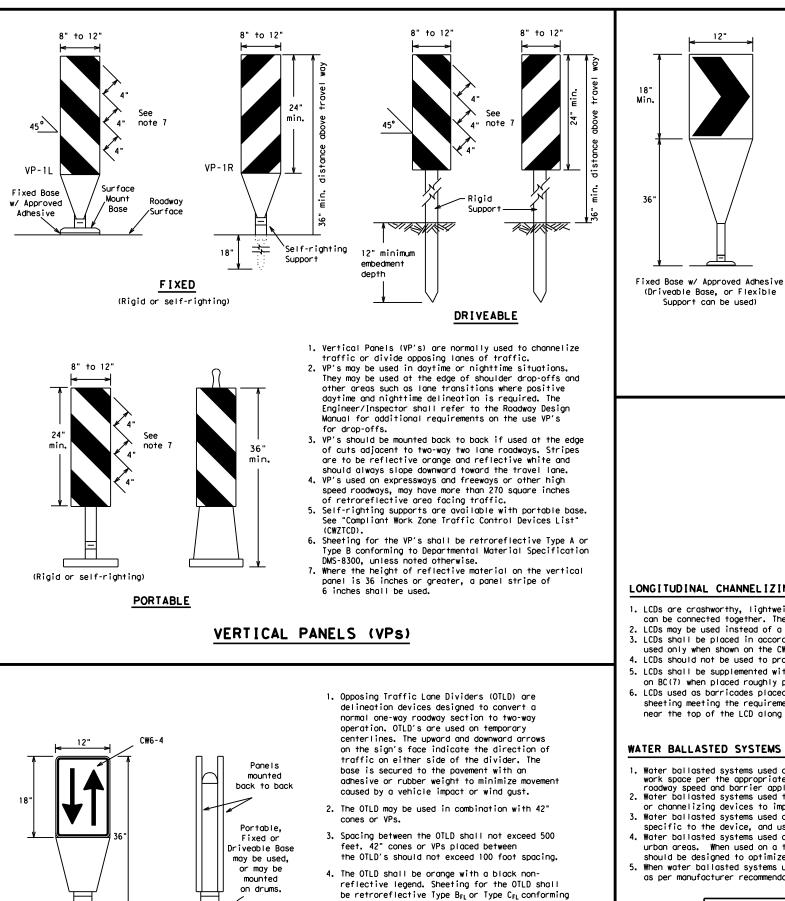
12" x 24" Vertical Panel mount with diagonals sloping down towards travel way

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

SIGNS, CHEVRONS, AND VERTICAL PANELS MOUNTED ON PLASTIC DRUMS

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

SHEE	ET 8	OF	12		
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BARRICADE A CHANNELI		IG	DEV		
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© TxDOT November 2002	CONT	SECT	JOB		HIGHWAY
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to Departmental Material Specification DMS-8300,

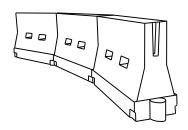
unless noted otherwise. The legend shall meet

the requirements of DMS-8300.

OPPOSING TRAFFIC LANE DIVIDERS (OTLD)

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

CHEVRONS



LONGITUDINAL CHANNELIZING DEVICES (LCD)

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

WATER BALLASTED SYSTEMS USED AS BARRIERS

- Water ballasted systems used as barriers shall not be used solely to channelize road users, but also to protect the work space per the appropriate Manual for Assessing Safety Hardware (MASH) crashworthiness requirements based on roadway speed and barrier application.
- 2. Water ballosted systems used to channelize vehicular traffic shall be supplemented with retroreflective delineation or channelizing devices to improve daytime/nighttime visibility. They may also be supplemented with pavement markings.
- 3. Water ballasted systems used as barriers shall be placed in accordance to application and installation requirements specific to the device, and used only when shown on the CWZTCD list.
- 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 canes and the top of the unit shall not be less than 32 inches in height.

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

GENERAL NOTES

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

Posted Speed	Formula	Minimum Desirable Taper Lengths X X			Spacin Channe	
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent
30		150'	1651	180'	30'	60′
35	$L = \frac{WS^2}{60}$	205'	225'	245'	35′	70′
40	60	265'	295′	320'	40′	80′
45		450'	495′	540'	45′	90′
50		500'	550'	600'	50 <i>'</i>	100′
55	L=WS	550'	605′	660 <i>′</i>	55 <i>'</i>	110′
60	L - # 3	600 <i>'</i>	660 <i>'</i>	720'	60 <i>'</i>	120′
65		650′	715′	780′	65 <i>'</i>	130'
70		700′	770′	840'	70′	140'
75		750'	825′	900'	75′	150'
80		800'	880′	960'	80 <i>'</i>	160'

L=Length of Taper (FT.) W=Width of Offset (FT.) S=Posted Speed (MPH)

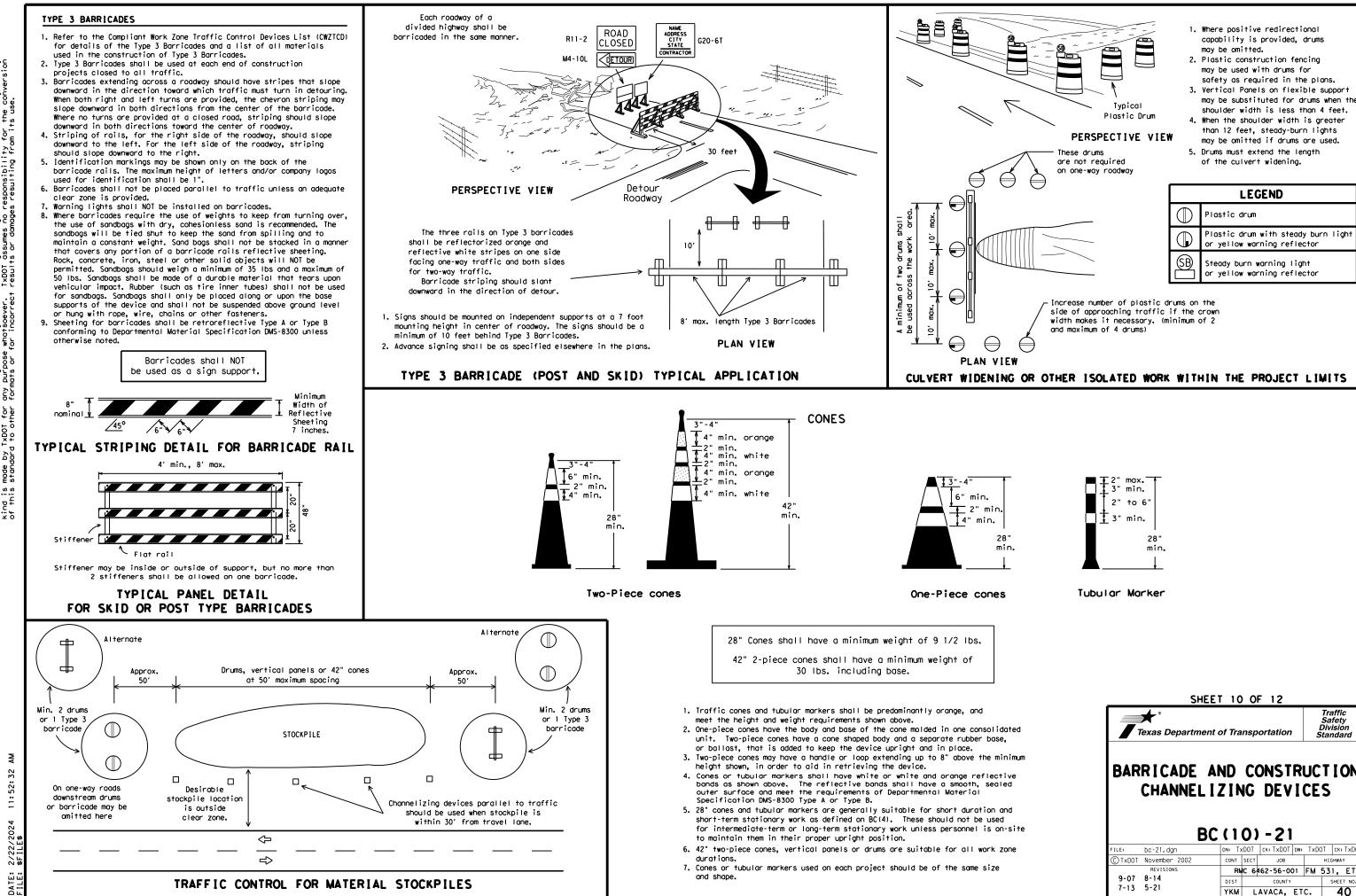
XX Taper lengths have been rounded off.

SUGGESTED MAXIMUM SPACING OF CHANNELIZING DEVICES AND MINIMUM DESIRABLE TAPER LENGTHS

SHEET 9 OF 12 Traffic Safety Division Standard **st** Texas Department of Transportation BARRICADE AND CONSTRUCTION

CHANNELIZING DEVICES

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

RAISED PAVEMENT MARKERS

- 1. Raised pavement markers are to be placed according to the patterns on BC(12).
- 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.
- 3. The markings should provide a visible reference for a minimum distance of 300 feet during normal daylight hours and 160 feet when illuminated by automobile low-beam headlights at night, unless sight distance is restricted by roadway geometrics.
- 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".
- 4. 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.
- 6. Blast cleaning may be used but will not be required unless specifically shown in the plans.
- 7. Over-painting of the markings SHALL NOT BE permitted.
- 8. Removal of raised pavement markers shall be as directed by the Engineer.
- Removal of existing pavement markings and markers will be paid for directly in accordance with Item 677, "ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS," unless otherwise stated in the plans.
- 10.Black-out marking tape may be used to cover conflicting existing markings for periods less than two weeks when approved by the Engineer.

Temporary Flexible-Reflective Roadway Marker Tabs



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

- Temporary flexible-reflective roadway marker tabs used as guiden shall meet the requirements of DMS-8242.
- Tabs detailed on this sheet are to be inspected and accepted by Engineer or designated representative. Sampling and testing is r normally required, however at the option of the Engineer, either or "B" below may be imposed to assure quality before placement or roadway.
 - A. Select five (5) or more tabs at random from each lot or sh and submit to the Construction Division, Materials and Pay Section to determine specification compliance.
 - B. Select five (5) tabs and perform the following test. Affix (5) tabs at 24 inch intervals on an asphaltic pavement in straight line. Using a medium size passenger vehicle or pi run over the markers with the front and rear tires at a sp of 35 to 40 miles per hour, four (4) times in each directi more than one (1) out of the five (5) reflective surfaces be lost or displaced as a result of this test.
- 3. Small design variances may be noted between tab manufacturers.
- 4. See Standard Sheet WZ(STPM) for tab placement on new pavements. Standard Sheet TCP(7-1) for tab placement on seal coat work.

RAISED PAVEMENT MARKERS USED AS GUIDEMARK

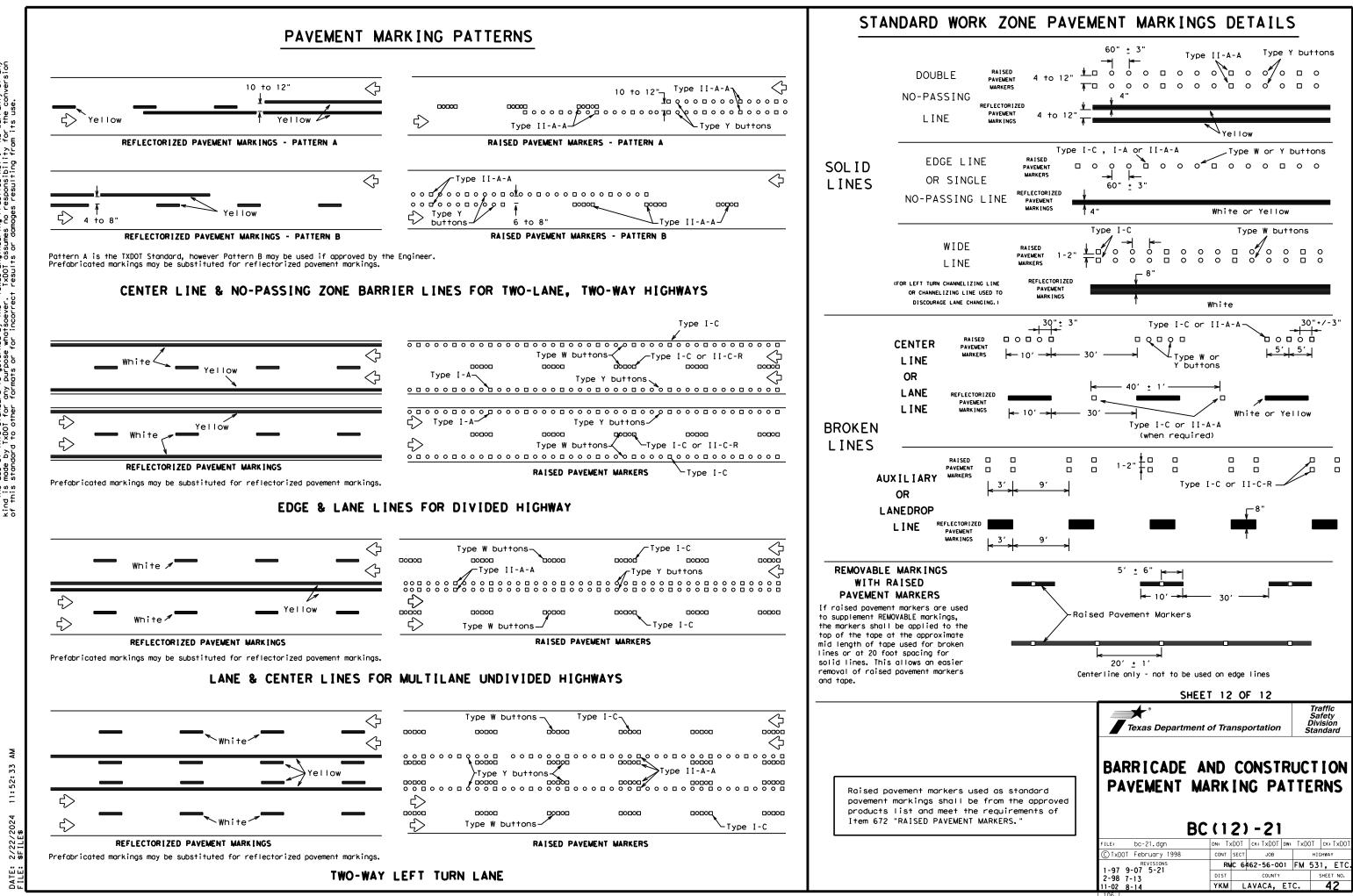
- Raised pavement markers used as guidemarks shall be from the approduct list, and meet the requirements of DMS-4200.
- All temporary construction raised pavement markers provided on project shall be of the same manufacturer.
- Adhesive for guidemarks shall be bituminous material hot applie butyl rubber pad for all surfaces, or thermoplastic for concret surfaces.

Guidemarks shall be designated as:

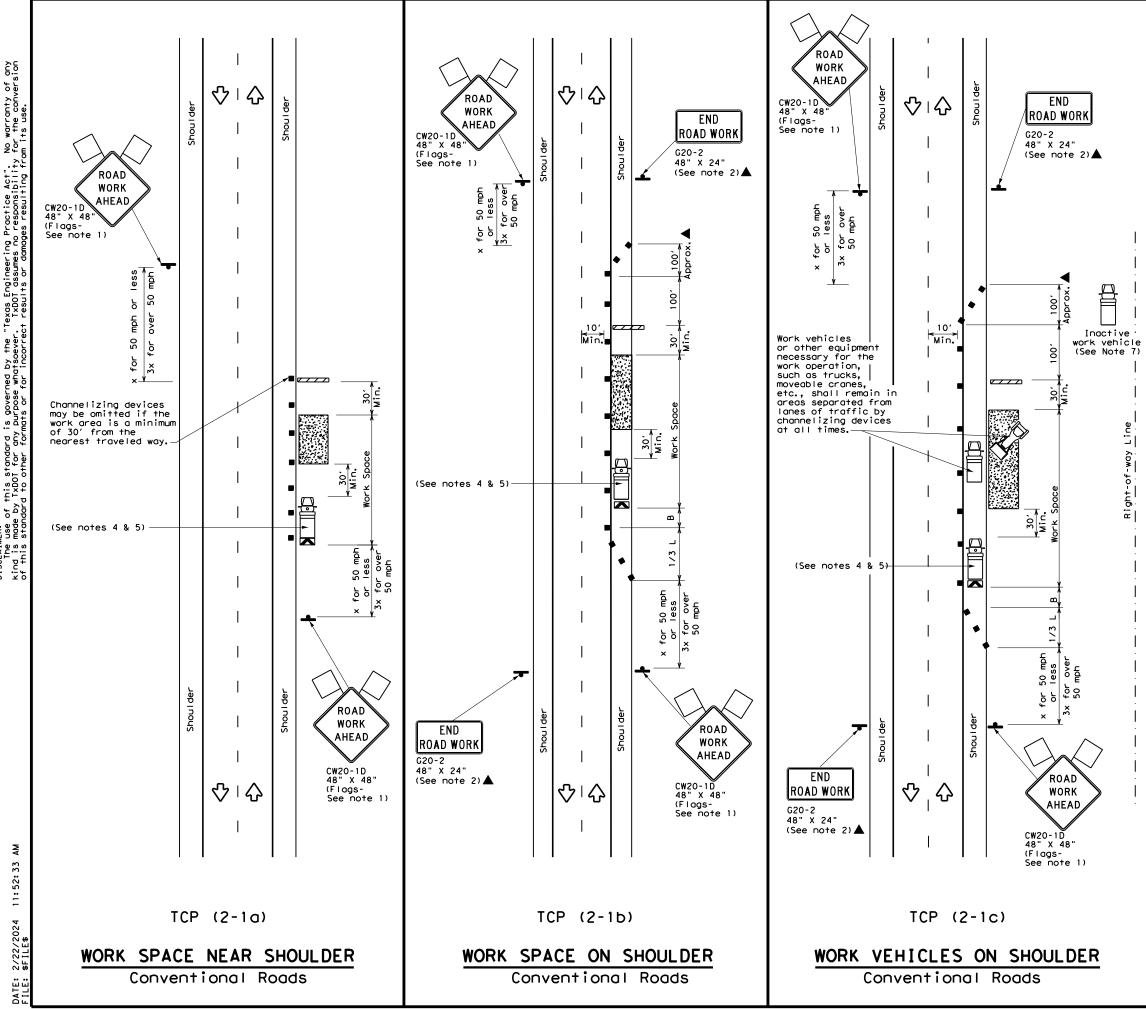
YELLOW - (two amber reflective surfaces with yellow body). WHITE - (one silver reflective surface with white body).

	DEPARTMENTAL MATERIAL SPECIFICAT	IONS
PAVEM	ENT MARKERS (REFLECTORIZED)	DMS-4200
TRAFF	IC BUTTONS	DMS-4300
EW I	AND ADHESIVES	DMS-6100
	INOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
	NENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240
PAVEM	RARY REMOVABLE, PREFABRICATED ENT MARKINGS	DMS-8241
	RARY FLEXIBLE, REFLECTIVE AY MARKER TABS	DMS-8242
non-re paveme	of prequalified reflective raised pavement flective traffic buttons, roadway marker to nt markings can be found at the Material Pr dress shown on BC(1).	bs and othe
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LEGEND						
~~~~~	Type 3 Barricade		Channelizing Devices			
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)			
Ē	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)			
-	Sign	$\Diamond$	Traffic Flow			
$\langle \rangle$	Flag	۵	Flagger			

Posted Speed <del>X</del>	Formula	D Tap	Minimur esirab er Leng X X	le gths	Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "X"	Suggested Longitudinal Buffer Space
*		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"B"
30	<u>ws</u> ²	150'	1651	180'	30′	60'	1201	90′
35	$L = \frac{WS}{60}$	205'	225'	245'	35′	70'	160'	120'
40	60	265′	295′	320'	40′	80′	240′	155'
45		450'	495′	540'	45′	90′	320′	195'
50		500'	550'	600'	50 <i>'</i>	100'	400′	240′
55	L=WS	550'	605′	660 <i>'</i>	55 <i>'</i>	110'	500 <i>'</i>	295′
60	L-#5	600 <i>'</i>	660 <i>'</i>	720'	60 <i>'</i>	120′	600 <i>'</i>	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

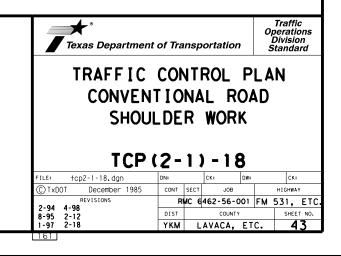
XX Taper lengths have been rounded off.

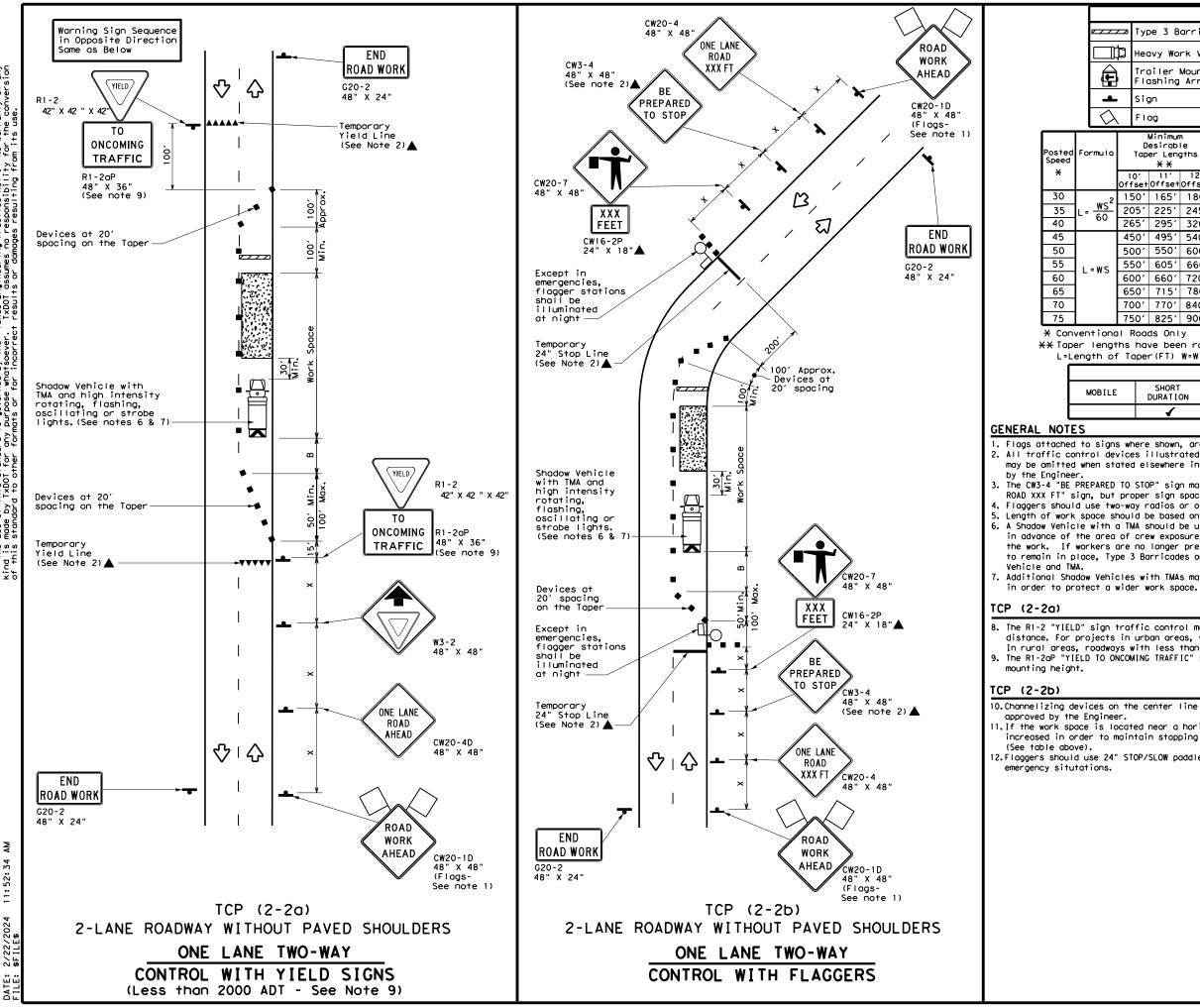
L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE						
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY		
	1	1	1	1		

# GENERAL NOTES

- 1. Flags attached to signs where shown, are REQUIRED.
- 2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated in the plans, or for routine maintenance work, when approved by the Engineer 3. Stockpiled material should be placed a minimum of 30 feet from
- nearest traveled way.
  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.
- 5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect a wider work space. 6. See TCP(5-1) for shoulder work on divided highways, expressways and
- freeways. 7. Inactive work vehicles or other equipment should be parked near the
- right-of-way line and not parked on the paved shoulder. 8. CW21-5 "SHOULDER WORK" signs may be used in place of CW20-1D
- "ROAD WORK AHEAD" signs for shoulder work on conventional roadways.





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c		D	Minimum esirabl er Leng X X	le	Suggeste Spaci Channe Dev	ng of	'n	Minimum Sign Spacing "X"	Suggested Longitudinal Buffer Space	Stopping Sight Distance
		0' set	11' Offset	12' Offset	On a Taper	On a Tangen	t	Distance	"B"	
2	15	50'	165'	180′	30′	60′		120'	90'	200'
-	20	)51	225′	245'	35′	70′		160'	120'	250 <i>'</i>
	26	55'	295′	320'	40'	80′		240'	155'	305′
	45	50'	495′	540'	45′	90′		320'	195'	360′
	50	0'	550'	600′	50 <i>'</i>	100′		400′	240′	425′
	55	50'	605′	660 <i>′</i>	55 <i>'</i>	110'		500 <i>'</i>	295′	495′
	60	01	660′	720'	60'	120'		600 <i>'</i>	350′	570'
	65	50'	715′	780′	65′	130'		700′	410′	645′
	70	0'	770'	840'	70′	140′		800 <i>'</i>	475′	730′
	75	i0'	825'	900′	75'	150′		900′	540 <i>′</i>	820 <i>'</i>

XX Taper lengths have been rounded off.

L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

	TYPICAL USAGE								
E	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY					
	4	<b>√</b>	4						

1. Flags attached to signs where shown, are REQUIRED. 2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved

3. The CW3-4 "BE PREPARED TO STOP" sign may be installed after the CW20-4 "ONE LANE ROAD XXX FT" sign, but proper sign spacing shall be maintained. 4. Flaggers should use two-way radios or other methods of communication to control traffic. 5. Length of work space should be based on the ability of flaggers to communicate. 6. 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

7. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown

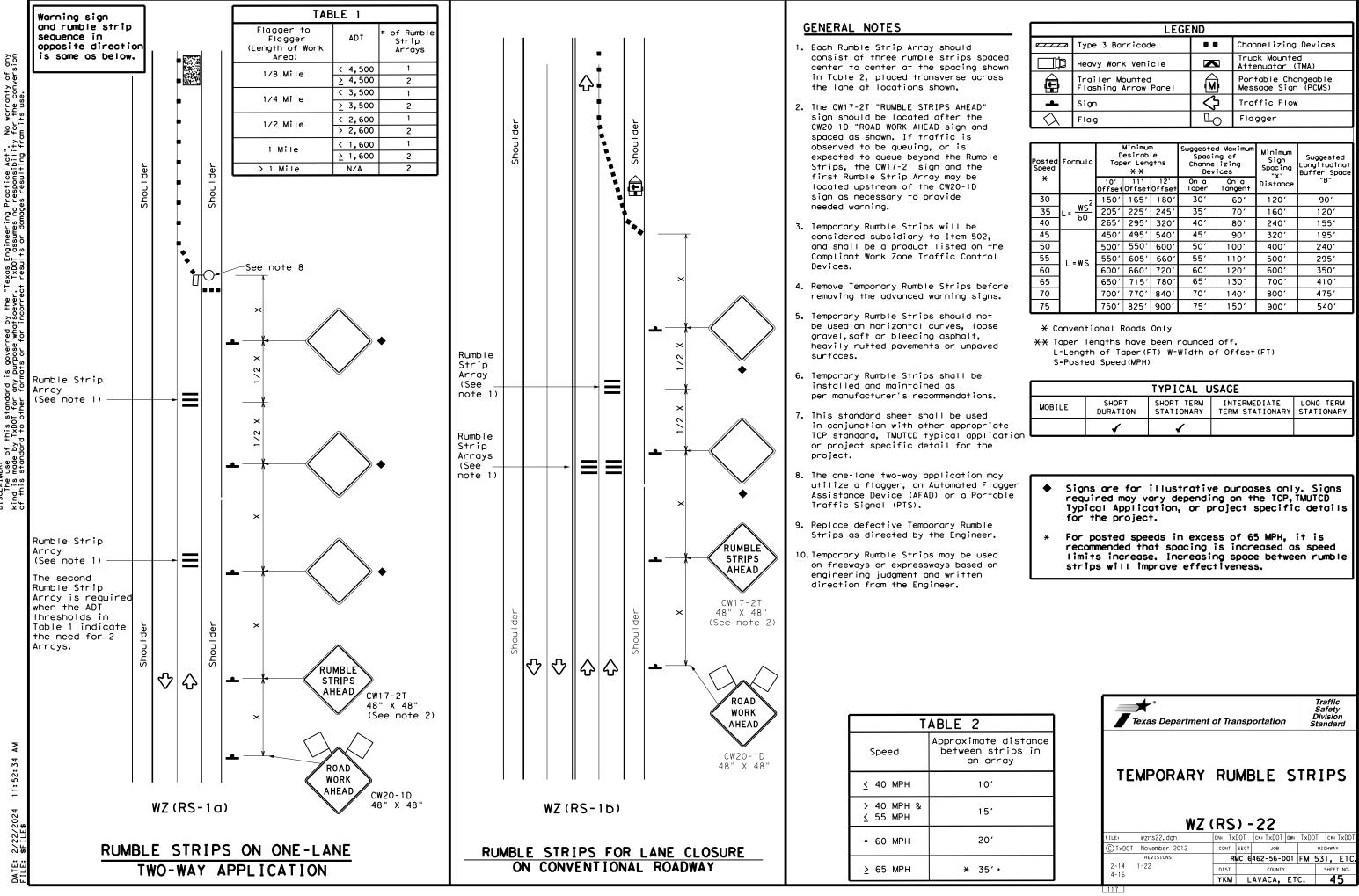
8. The R1-2 "YIELD" sign traffic control may be used on projects with approaches that have adequate sight distance. For projects in urban areas, work space should be no longer than one half city block. In rural areas, roadways with less than 2000 ADT, work space should be no longer than 400 feet. 9. The R1-2aP "YIELD TO ONCOMING TRAFFIC" sign shall be placed on a support at a 7 foot minimum

10.Channelizing devices on the center line may be omitted when a pilot car is leading traffic and

11. If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain stopping sight distance to the flagger and a queue of stopped vehicles.

12.Flaggers should use 24" STOP/SLOW paddles to control traffic. Flags should be limited to

Texas Departmen	t of Tra	nsp	ortatio	ז		Trat pera Divis Stan	tions sion
TRAFFIC ONE-LA TRAFF	ANE	T	WO-V	VA	Y	N	
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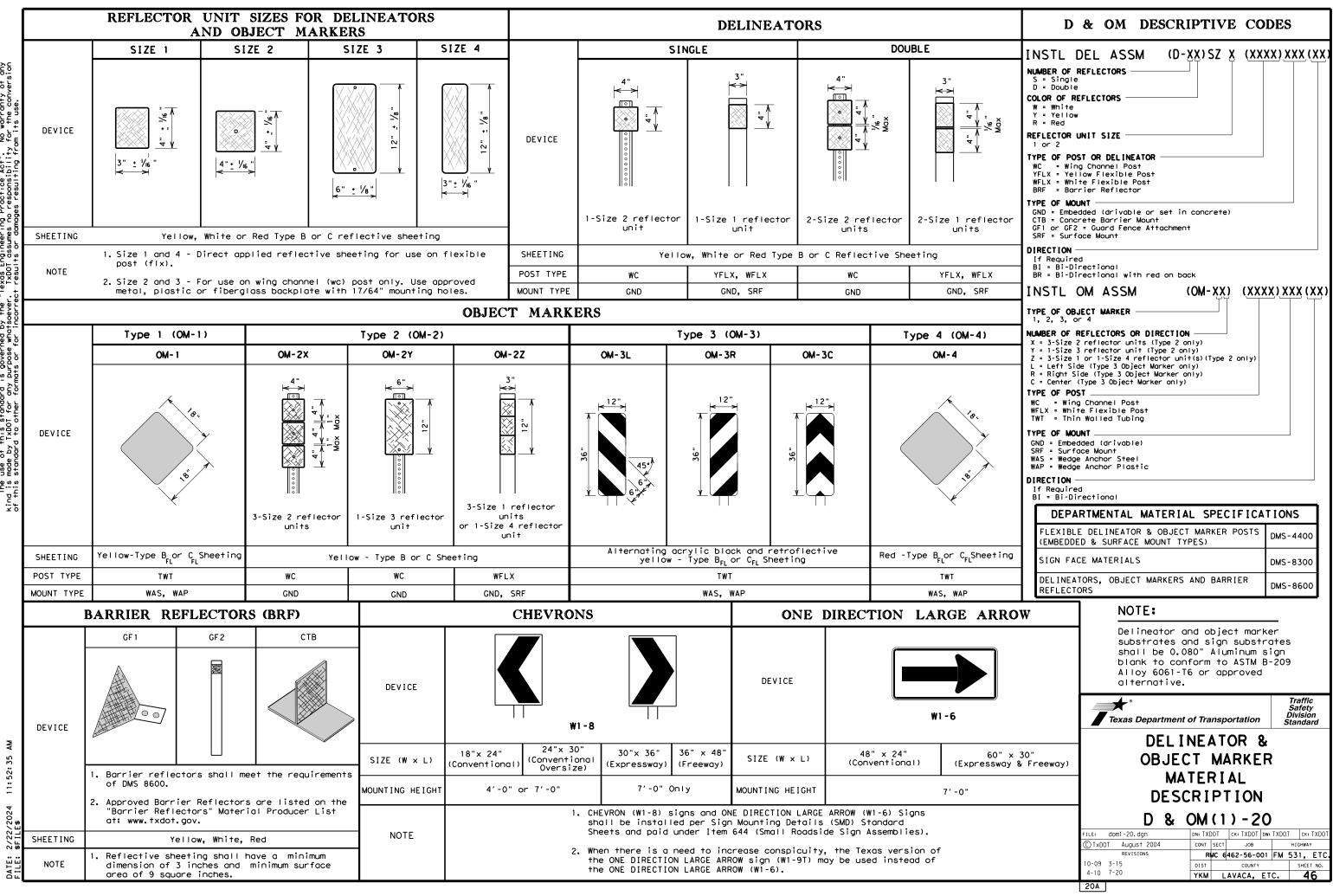
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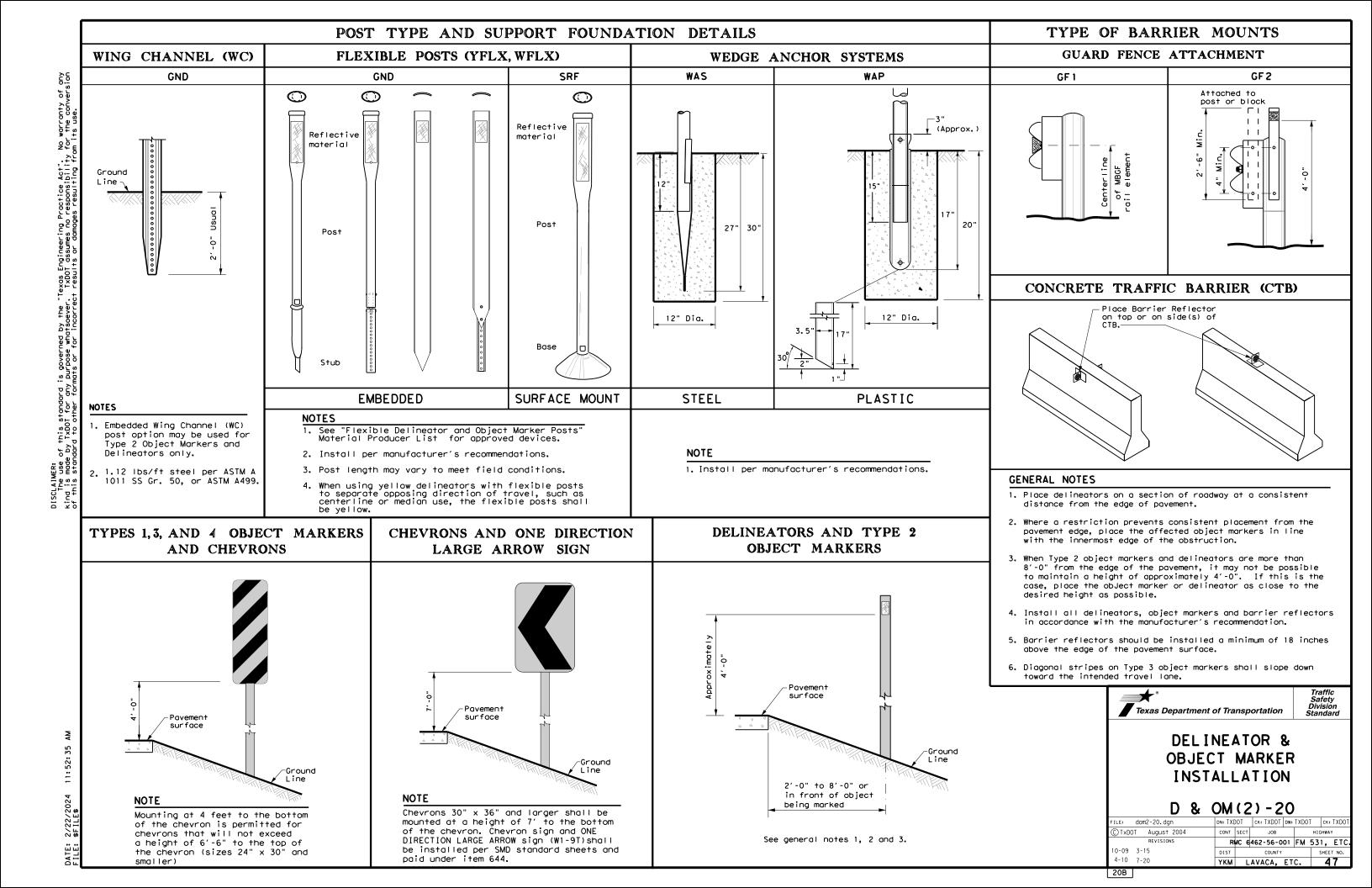
	LEGEND							
	Type 3 Barricade		Channelizing Devices					
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)					
Ð	Trailer Mounted Flashing Arrow Panel		Portable Changeable Message Sign (PCMS)					
4	Sign	$\Diamond$	Traffic Flow					
$\bigtriangleup$	Flag	LO	Flagger					

Posted Speed	Formula	D	esirab er Len X X	le	Špaci: Channe		Minimum Sign Spacing "x"	Suggested Longitudinal Buffer Space
*		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"B"
30	<u>ws</u> ²	150'	165'	180'	30′	60′	120'	90'
35	$L = \frac{WS}{60}$	2051	225'	245'	35′	70'	1601	120′
40	60	265'	295′	320'	40′	80′	240'	155′
45		450'	495′	540'	45′	90'	320'	195'
50		500'	550'	600′	50 <i>'</i>	100'	400'	240'
55	L=WS	550'	605′	660 <i>'</i>	55 <i>'</i>	110′	500 <i>ʻ</i>	295′
60	L-#5	600'	660'	720'	60′	120'	600 <i>'</i>	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′

	TYPICAL USAGE									
	MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY					
e tion		1	1							



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# MINIMUM WARNING DEVICES AT CURVES WITH ADVISORY SPEEDS

	WITH	ADVISORY	SPEEDS
Amount by which Advisory Speed		Curve Advi	sory Speed
is less than Posted Speed	(30 M	Turn IPH or Tess)	Curve (35 MPH or more)
5 MPH & 10 MPH	RPMs		RPMs
15 MPH & 20 MPH	<ul> <li>RPMs and Large Art</li> </ul>	One Direction row sign	<ul> <li>RPMs and Chevrons; or</li> <li>RPMs and One Direction Large Arrow sign where geometric conditions or roadside obstacles prevent the installation of chevrons.</li> </ul>
25 MPH & more	<ul> <li>RPMs and Large Arr geometric roadside</li> </ul>	Chevrons; or One Direction row sign where c conditions or obstacles preven allation of	• RPMs and Chevrons
SUGGEST		ACING FOR RIZONTAL	DELINEATORS CURVES
A	NOTE ONE DIREC should be perpendic centerlin approach	Extension of t centerline of tangent sectic approach lane CTION LARGE ARROW e located at appro cular to the exten te of the tangent lane.	(W1-6) sign (W1
		PACING FOR RIZONTAL (	R CHEVRONS CURVES
Poincurve	t of ature		Point of tangent B B B B

DE	LINEA	TOR A SPAC	ND CHEV	RON		
WHEN	N DEGREE	OF CURVE	OR RADIUS I	S KNOWN	Frwy	
			FEET		Frwy	
egree) of	Radius	Spacing	Spacing	Chevron Spacina		
Curve	of Curve	in Curve	in Straightaway	in	Frwy	
		Α	24	В		
1	5730	225	450		1	
2	2865	160	320		Acce Lane	
3	1910	130	260	200		
4	1433	110	220	160	Truc	
5	1146	100	200	160		
6	955	90	180	160		
7	819	85	170	160	Brid	
8	716	75	150	160	Bean	
9	637	75	150	120		
10	573	70	140	120	1	
11	521	65	130	120	Conc or S	
12	478	60	120	120	الت آ	
13 14	441	60 55	120	120	Cabi	
	409		110	80		
15	382	55 55	110	80		
16 19	358 302	50	110	80 80		
23	249	40	80	80	Guar Head	
29	198	35	70	40		
38	150	30	60	40		
50	1.31	50				
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urve d pacing paced sed du	lelineato should at 2A. T iring des	r approa include his spac ign prep	40 ch and depar 3 delineator ing should be aration or wl	40 ture S	Rai Redu Brid	
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urve d pacing paced sed du he deg DI	Elineato should at 2A. T ring des ree of c	TOR A	40 ch and depart 3 delineators ing should be aration or with known.	40 ture senen VRON	Rail Redu Brid Culv Cros	
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delineator spacing may be determined based on the Advisory Speed of the curve. Use the delineator curve spacing for each Advisory Speed (MPH).

DELINEATOR AN	ID OBJECT MARKER APPLI	CATION AND SPACING
CONDITION	REQUIRED TREATMENT	MINIMUM SPACING
Frwy./Exp. Tangent	RPMs	See PM-series and FPM-series standard sheets
Frwy./Exp. Curve	Single delineators on right side	See delineator spacing table
Frwy/Exp.Romp	Single delineators on at least one side of ramp (should be on outside of curves) (see Detail 3 on D&OM(4))	100 feet on ramp tangents Use delineator spacing table for ramp curves ("straightway spacing" does not apply to ramp curves)
Acceleration/Deceleration Lane	Double delineators (see Detail 3 on D&OM(4))	100 feet (See Detail 3 on D & OM (4))
Truck Escape Ramp	Single red delineators on both sides	50 feet
Bridge Rail (steel or concrete)and Metal Beam Guard Fence	Bi-Directional Delineators when undivided with one lane each direction Single Delineators when multiple lanes each direction	Equal spacing (100'max) but not less than 3 delineators
Concrete Traffic Barrier (CTB) or Steel Traffic Barrier	Barrier reflectors matching the color of the edge line	Equal spacing 100' max
Cable Barrier	Reflectors matching the color of the edge line	Every 5th cable barrier post (up to 100'max)
Guard Rail Terminus/Impact Head	Divided highway - Object marker on approach end Undivided 2-lane highways - Object marker on approach and departure end	Requires reflective sheeting provided by manufacturer per D & OM (VIA) or a Type 3 Object Marker (OM-3) in front of the terminal end See D & OM (5) and D & OM (6)
Bridges with no Approach Rail	Type 3 Object Marker (OM-3) at end of rail and 3 single delineators approaching rail	See D & OM(5)
Reduced Width Approaches to Bridge Rail	Type 2 and Type 3 Object Markers (OM-3) and 3 single delineators approaching bridge	Requires reflective sheeting provided by manufacturer per D & OM (VIA) or a Type 3 Object Marker (OM-3) in front of the terminal end
		See D & OM (5)
Culverts without MBGF	Type 2 Object Markers	See Detail 2 on D & OM(4)
Crossovers	Double yellow delineators and RPMs	See Detail 1 on D & OM (4)
Pavement Narrowing (lane merge) on Freeways/Expressway	Single delineators adjacent to affected lane for full length of transition	100 feet
NOTES		

- NOTES
- or barrier reflectors are placed.
- 3. Single red delineators may be mounted on the back side of delineator posts for wrong way driver applications

	LEGEND					
Ж	Bi-directio Delineator					
$\mathbf{R}$	Delineator					
-	Sign					

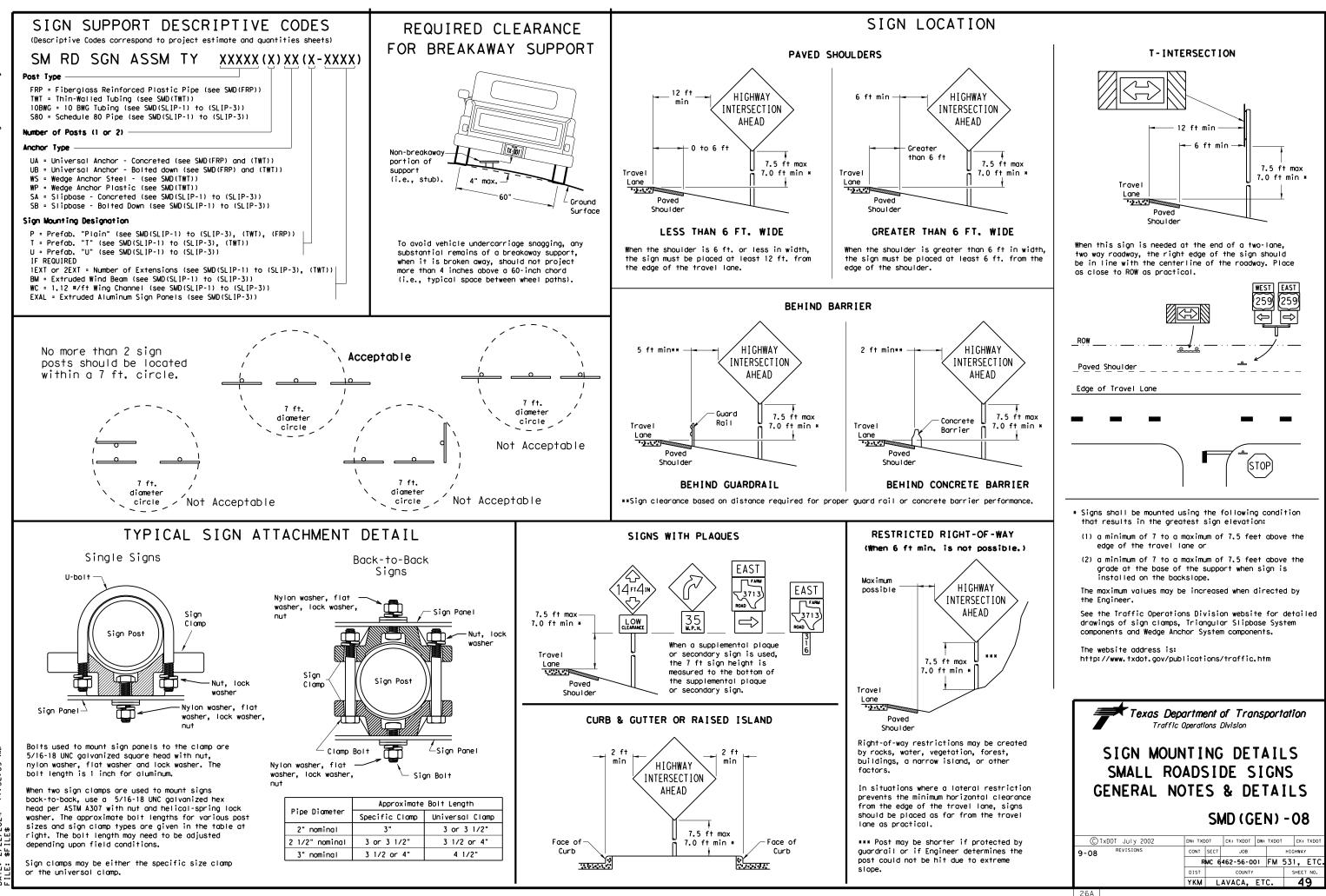
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1. Unless indicated otherwise, the delineator or barrier reflector color shall conform to the color of the pavement edge line on the side of the road where the delineators

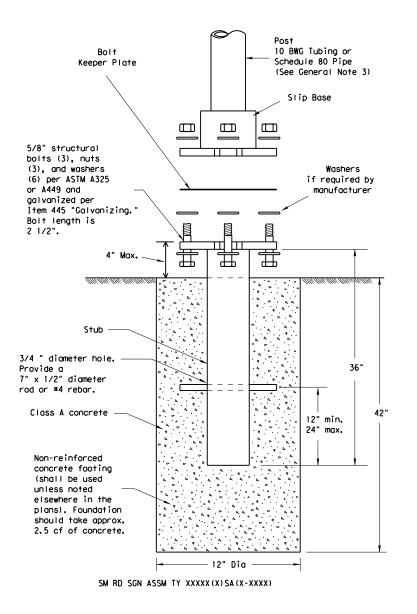
2. Barrier reflectors may be used to replace required delineators.

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onal	OBJECT MARKER PLACEMENT DETAILS							
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	© TxDOT August 2004		CONT	SECT	JOB		HIGHWA	Y
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	3-15 8-15		DIST		COUNTY		SHEE	T NO.
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# TRIANGULAR SLIPBASE INSTALLATION GENERAL REQUIREMENTS



NOTE

There are various devices approved for the Triangular Slipbase System. Please reference the Material Producer List for approved slip base systems. 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:

- 0.134" nominal wall thickness
- 55,000 PSI minimum yield strength
- 20% minimum elongation in 2"

- Schedule 80 Pipe (2.875" outside diameter) 0.276" nominal wall thickness
- Steel tubing per ASTM A500 Gr C
- 46,000 PSI minimum yield strength
- 62,000 PSI minimum tensile strength 21% minimum elongation in 2"
- Galvanization per ASTM A123

# 4. Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.

# ASSEMBLY PROCEDURE

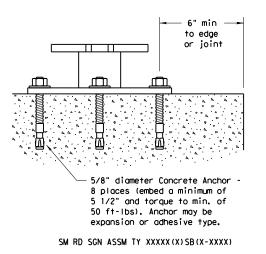
- Foundation

- direction.

# Support

- straight.
- clearances based on sign types.

CONCRETE ANCHOR



Concrete anchor consists of 5/8" diameter stud bolt with UNC series bolt threads on the upper end. Heavy hex nut per ASTM A563, and hardened washer per ASTM F436. The stud bolt shall have a minimum yield and ultimate tensile strength of 50 and 75 KSI, respectively. Nuts, bolts and washers shall be galvanized per Item 445, "Galvanizing, " Adhesive type anchors shall have stud bolts installed with Type III epoxy per DMS-6100, "Epoxies and Adhesives, " Adhesive anchors may be loaded after adequate epoxy cure time per the manufacturer's recommendations. Top of bolt shall extend at least flush with top of the nut when installed. The anchor, when installed in 4000 psi normalweight 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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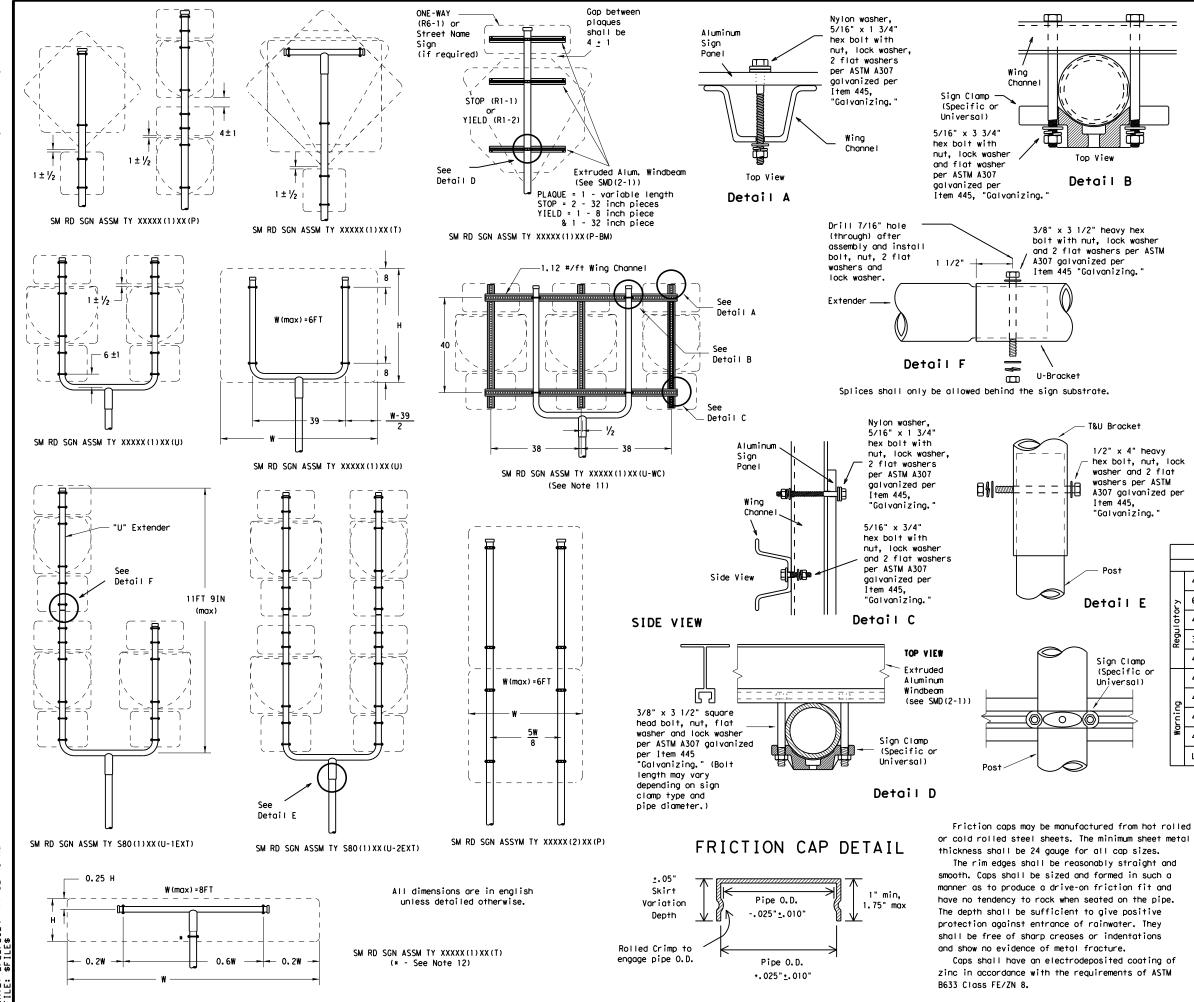
1. Slip base shall be permanently marked to indicate manufacturer. Method, design, and location of marking are subject to approval of the TxDOT Traffic Standards Engineer. Material used as post with this system shall conform to the following specifications: 10 BWG Tubing (2.875" outside diameter) Seamless 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: 70,000 PSI minimum tensile strength Wall thickness (uncoated) shall be within the range of 0.122" to 0.138" Outside diameter (uncoated) shall be within the range of 2.867" to 2.883" Galvanization per ASTM A123 or ASTM A653 G210. For precoated steel tubing (ASTM A653), recoat tube outside diameter weld seam by metallizing with zinc wire per ASTM B833. 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: 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" 3. See the Traffic Operations Division website for detailed drawings of sign clamps and Texas Universal Triangular Slipbase System components. The website address is: http://www.txdot.gov/publications/traffic.htm

1. Prepare 12-inch diameter by 42-inch deep hole. If solid rock is encountered, the depth of the foundation may be reduced such that it is embedded a minimum of 18 inches into the solid rock. 2. The Engineer may permit batches of concrete less than 2 cubic yards to be mixed with a portable, motor-driven concrete mixer. For small placements less than 0.5 cubic yards, hand mixing in a suitable container may be allowed by Engineer. Concrete shall be Class A. 3. Push the pipe end of the slip base stub into the center of the concrete. Rotate the stub back and forth while pushing it down into the concrete to assure good contact between the concrete and stub. Continue to work the stub into the concrete until it is between 2 to 4 inches above the ground. 4. Plumb the stub. Allow a minimum of 4 days to set, unless otherwise directed by the Engineer. 5. The triangular slipbase system is multidirectional and is designed to release when struck from any

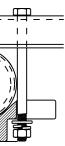
1. Cut support so that the bottom of the sign will be 7 to 7.5 feet above the edge of the travelway (i.e., edge of the closest lane) when slip plate is below the edge of pavement or 7 to 7.5 feet above slip plate when the slip plate is above the edge of the travelway. The cut shall be plumb and

2. Attach sign to support using connections shown. When multiple signs are installed on the same support, ensure the minimum clearance between each sign is maintained. See SMD(SLIP-2) for

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SIGN MOUN SMALL RO TRIANGULAR	ADS SL I	511 [P]	DE S	I	GN Sy	IS ST	
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1/2" x 4" heavy hex bolt, nut, lock washer and 2 flat washers per ASTM A307 galvanized per "Galvanizing.

### GENERAL NOTES:

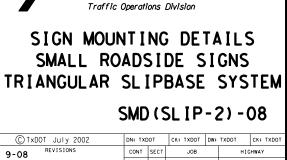
1.

SIGN SUPPORT	# OF POSTS	MAX. SIGN AREA
10 BWG	1	16 SF
10 BWG	2	32 SF
Sch 80	1	32 SF
Sch 80	2	64 SF

2. The Engineer may require that a Schedule 80 post be used in place of a 10 BWG where a sign height is abnormally high due to a fill slope.

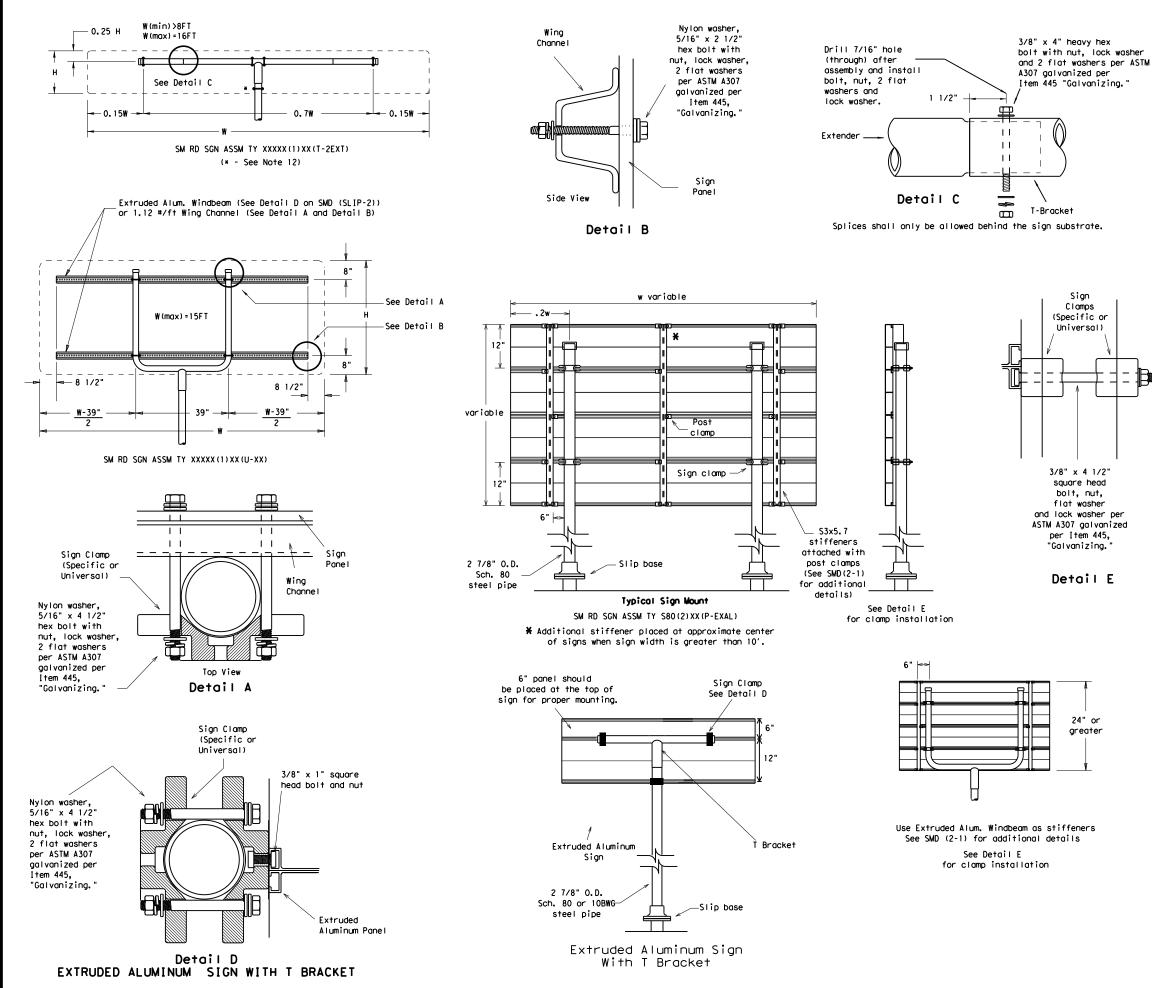
- 3. Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.
- Aluminum sign blanks shall conform to Departmental Material Specifications DMS-7110 and shall have the following minimum thicknesses: 0.080 for signs less than 7.5 sq. ft., 0.100 for signs 7.5 to 15 sq. ft., and 0.125 for signs greater than 15 sq. ft.
- 5. Signs that require specific supports due to reasons in addition to windloading are indicated on the "REQUIRED SUPPORT" table on this sheet.
- 6. For horizontal rectangular signs fabricated from flat aluminum, T-brackets are used for signs 24 inches or less in height. U-brackets are used for signs of greater height. 7. When two triangular slipbase supports are used to
- support a single sign, they shall not be "rigidly" connected to each other except through the sign panel. This will allow each support to act independently
- when impacted by an errant vehicle. 8. Wing channel shall meet ASTM A 1011 SS Gr 50 and be galvanized per ASTM A 123.
- Excess pipe, wing channel, or windbeam shall be cut off so that it does not extend beyond the sign panel (i.e., excess support shall not be visible when the sign is viewed from the front.) Repair galvanized coating at cut support ends per Item 445, "Galvanizing."
- 10. Additional route markers may be added vertically, provided the total sign area does not exceed the maximum allowable amount per Note 1.
- 11. Additional sign clamp required on the "T-bracket" post for 24 inch height signs. Place the clamp 3 inches above bottom of sign when possible.
- 12. Post open ends shall be fitted with Friction Caps. 13. Sign blanks shall be the sizes and shapes shown on the plans.

		REQUIRED SUPPORT	
		SIGN DESCRIPTION	SUPPORT
		48-inch STOP sign (R1-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
E	latory	60-inch YIELD sign (R1-2)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
		48x16-inch ONE-WAY sign (R6-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	Regul	36x48, 48x36, and 48x48-inch signs	TY 10BWG(1)XX(T)
p		48x60-inch signs	TY \$80(1)XX(T)
or )		48x48-inch signs (diamond or square)	TY 10BWG(1)XX(T)
	ō	48x60-inch signs	TY \$80(1)XX(T)
	Warning	48-inch Advance School X-ing sign (S1-1)	TY 10BWG(1)XX(T)
	Ň	48-inch School X-ing sign (S2-1)	TY 10BWG(1)XX(T)
		Large Arrow sign (W1-6 & W1-7)	TY 10BWG(1)XX(T)



Texas Department of Transportation

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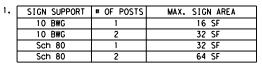


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# GENERAL NOTES:

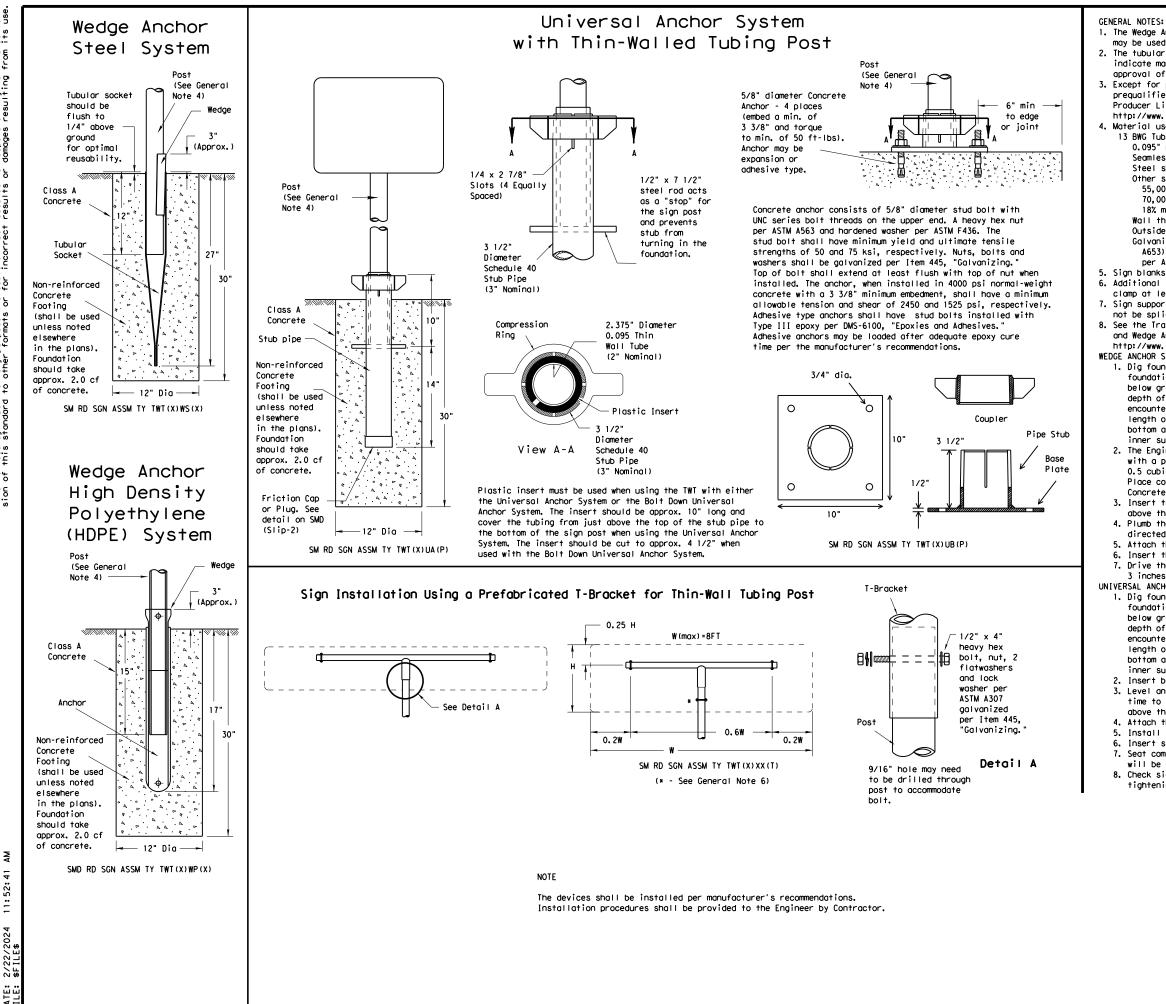
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- 2. The Engineer may require that a Schedule 80 post be used in place of a 10 BWG where a sign height is abnormally high due to a fill slope.
- 3. Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.
- Aluminum sign blanks shall conform to Departmental Material Specifications DMS-7110 and shall have the following minimum thicknesses: 0.080 for signs less than 7.5 sq. ft., 0.100 for signs 7.5 to 15 sq. ft., and 0.125 for signs greater than 15 sq. ft.
- 5. Signs that require specific supports due to reasons in addition to windloading are indicated on the "REQUIRED SUPPORT" table on this sheet. 6. For horizontal rectangular signs fabricated from flat
- aluminum, T-brackets are used for signs 24 inches or less in height. U-brackets are used for signs of greater height. 7. When two triangular slipbase supports are used to
- support a single sign, they shall not be "rigidly" connected to each other except through the sign panel. This will allow each support to act independently when impacted by an errant vehicle.
- 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."
- 10. Sign blanks shall be the sizes and shapes shown on the plans.
- 11. Additional sign clamp required on the "T-bracket" post for 24 inch high signs. Place the clamp 3 inches above bottom of sign when possible.
- 12. Post open ends shall be fitted with Friction Caps.

REQUIRED SUPPORT					
	SIGN DESCRIPTION	SUPPORT			
	48-inch STOP sign (R1-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)			
는 60-inch YIELD sign (R1-2)		TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)			
Regul atory	48x16-inch ONE-WAY sign (R6-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)			
Regu	36x48, 48x36, and 48x48-inch signs	TY 10BWG(1)XX(T)			
	48x60-inch signs	TY \$80(1)XX(T)			
	48x48-inch signs (diamond or square)	TY 10BWG(1)XX(T)			
ō	48x60-inch signs	TY \$80(1)XX(T)			
Warning	48-inch Advance School X-ing sign (S1-1)	TY 10BWG(1)XX(T)			
	48-inch School X-ing sign (S2-1)	TY 10BWG(1)XX(T)			
	Large Arrow sign (W1-6 & W1-7)	TY 10BWG(1)XX(T)			

Texas Department of Transportation Traffic Operations Division							
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1. The Wedge Anchor System and the Universal Anchor System with thin wall tubing post may be used to support up to 10 square feet of sign area. 2. The tubular socket, wedge and prefabricated T-bracket shall be permanently marked to indicate manufacturer. Method, design, and location of marking are subject to the approval of the TxDOT Traffic Standards Engineer. 3. Except for posts (13 BWG Tubing), clamps, nuts and bolts, all components shall be prequalified. A list of prequalified vendors may be obtained from the Material Producer List web page. The website address is: http://www.txdot.gov/business/producer list.htm Material used as post with this system shall conform to the following specifications: 13 BWG Tubing (2.375" outside diameter) (TWT) 0.095" nominal wall thickness Seamless or electric-resistance welded steel tubing Steel shall be HSLAS Gr 55 per ASTM A1011 or ASTM Å1008 Other steels may be used if they meet the following: 55,000 PSI minimum yield strength 70,000 PSI minimum tensile strength 18% minimum elongation in 2" Wall thickness (uncoated) shall be within the range of .083" to .099" Outside diameter (uncoated) shall be within the range of 2.369" to 2.381" Galvanization per ASTM 123 or ASTM A653 G210. For precoated steel tubing (ASTM A653), recoat tube outside diameter weld seam by metallizing with zinc wire per ASTM B833. 5. Sign blanks shall be the sizes and shapes shown on the plans. 6. Additional sign clamp required on the "T-bracket" post for 24" high signs. Place clamp at least 3" above bottom of sign when possible. 7. Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced. 8. See the Traffic Operations Division website for detailed drawings of sign clamps and Wedge Anchor System components. The website address is: http://www.txdot.gov/publications/traffic.htm WEDGE ANCHOR SYSTEM INSTALLATION PROCEDURE 1. Dig foundation hole, Where solid rock is encountered at around level, the foundation shall be a minimum depth of 18". When solid rock is encountered below ground level, the foundation shall extend in the solid rock a minimum depth of 18" or provide a minimum foundation depth of 30". If solid rock is encountered, the socket/stub may be reduced in length as required to a minimum length of 18". Any material removed from the socket/stub shall be from the bottom and the clearance requirements given on SMD(GEN) must be followed. The inner surfaces of the socket/stub must remain free of concrete or other debris. 2. The Engineer may permit batches of concrete less than 2 cubic yards to be mixed with a portable, motor driven concrete mixer. For small placements less than 0.5 cubic yards, hand mixing in a suitable container may be allowed by Engineer. Place concrete into hole until it is approximately flush with the ground. Concrete shall be Class A. 3. Insert tubular socket into concrete until top of socket is approximaely 1/4 " above the concrete footing. 4. Plumb the socket. Allow a minimum 4 days for concrete to set, unless otherwise directed by Engineer.. 5. Attach the sign to the sign post. 6. Insert the sign post into socket and align sign face with roadway. 7. Drive the wedge into the socket to secure post. This will leave approximately 3 inches of the wedge exposed. UNIVERSAL ANCHOR SYSTEM INSTALLATION PROCEDURE 1. Dig foundation hole. Where solid rock is encountered at ground level, the foundation shall be a minimum depth of 18". When solid rock is encountered below ground level, the foundation shall extend in the solid rock a minimum depth of 18" or provide a minimum foundation depth of 30". If solid rock is encountered, the socket/stub may be reduced in length as required to a minimum length of 18". Any material removed from the socket/stub shall be from the bottom and the clearance requirements given on SMD(GEN) must be followed. The inner surfaces of the socket/stub must remain free of concrete or other debris. 2. Insert base post in hole to depths shown and backfill hole with concrete. 3. Level and plumb the base post using a torpedo level and allow concrete adequate time to set. The bottom of the slots provided in the stub pipe shall remain above the top of the concrete foundation. 4. Attach the sign to the sign post. 5. Install plastic insert around bottom of post. 6. Insert sign post into base post. Lower until the post comes to rest on steel rod. 7. Seat compression ring using a hammer. Typically, the top of compression ring will be approximately level with top of stub post when optimally installed. 8. Check sign post by hand to ensure it is unable to turn. If loose, increase the tightening of the compression ring. Texas Department of Transportation Traffic Operations Division SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS WEDGE & UNIVERSAL ANCHOR WITH THIN WALL TUBING POST SMD (TWT) - 08

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REQUIREMENTS FOR RED BACKGROUND REGULATORY SIGNS (STOP, YIELD, DO NOT ENTER AND WRONG WAY SIGNS)	REQUIREMENTS FOR WHITE BACKGROUND REGULATORY SIGNS (EXCLUDING STOP, YIELD, DO NOT ENTER AND WRONG WAY SIGNS)
STOP DO NOT WRONG	SPEED LIMIT 55
REQUIREMENTS FOR FOUR	TYPICAL EXAMPLES
SPECIFIC SIGNS ONLY	SHEETING REQUIREMENTS
SHEETING REQUIREMENTS	USAGE COLOR SIGN FACE MATERIAL
USAGE COLOR SIGN FACE MATERIAL	BACKGROUND WHITE TYPE A SHEETING
BACKGROUND RED TYPE B OR C SHEETING BACKGROUND WHITE TYPE B OR C SHEETING	BACKGROUND ALL OTHERS TYPE B OR C SHEETING
LEGEND & BORDERS WHITE TYPE B OR C SHEETING	AND SYMBOLS BLACK ACRILIC NON-REFLECTIVE FILM
LEGEND RED TYPE B OR C SHEETING	LEGEND, BORDERS AND SYMBOLS ALL OTHER TYPE B OR C SHEETING
REQUIREMENTS FOR WARNING SIGNS	REQUIREMENTS FOR SCHOOL SIGNS
TYPICAL EXAMPLES	SCHOOL SPEED LIMIT 20 WHEN FLASHING TYPICAL EXAMPLES
SHEETING REQUIREMENTS	SHEETING REQUIREMENTS
USAGE COLOR SIGN FACE MATERIAL	USAGE COLOR SIGN FACE MATERIAL
	BACKGROUND WHITE TYPE A SHEETING
BACKGROUND FLOURESCENT TYPE B _{FL} OR C _{FL} SHEETING	
YELLOW YELLOW	BACKGROUND FLOURESCENT TYPE B _{FL} OR C _{FL} SHEETING YELLOW GREEN
VELLOW YELLOW	

# NOTES

be furnished shall be as detailed elsewhere in the plans and/or as sign tabulation sheet. Standard sign designs and arrow dimensions found in the "Standard Highway Sign Designs for Texas" (SHSD).

gend shall use the Federal Highway Administration (FHWA) Highway Alphabets (B, C, D, E, Emod or F).

spacing between letters and numerals shall conform with the SHSD, approved changes thereto. Lateral spacing of legend shall provide ced appearance when spacing is not shown.

egend and borders shall be applied by screening process or cut-out non-reflective black film to background sheeting, or combination

egend and borders shall be applied by screening process with transparent ink, transparent colored overlay film to white background sheeting or white sheeting to colored background sheeting, or combination thereof.

legend shall be applied by screening process with transparent colored ansparent colored overlay film or colored sheeting to background g, or combination thereof.

bstrate shall be any material that meets the Departmental Material cation requirements of DMS-7110 or approved alternative.

details for roadside mounted signs are shown in the "SMD series" Plan Sheets.

ALUMINUM SIGN BLANKS THICKNESS					
Square Feet	Minimum Thickness				
Less than 7.5	0.080				
7.5 to 15	0.100				
Greater than 15	0.125				

DEPARTMENTAL MATERIAL SPECIFICATIONS					
ALUMINUM SIGN BLANKS	DMS-7110				
SIGN FACE MATERIALS	DMS-8300				

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

