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### STATE OF TEXAS **INDEX OF SHEETS** DEPARTMENT OF TRANSPORTATION SHEET NO. DESCRIPTION $\square \circ \square$ 1. GENERAL PLANS OF PROPOSED TITLE SHEET 001 STATE HIGHWAY IMPROVEMENT 002 PROJECT INDEX SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF STATE PROJECT TRANSPORTATION, NOVEMBER 1, 2014 AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS. SHALL GOVERN ON VARIOUS HIGHWAYS THIS PROJECT: REQUIRED SPECIAL LABOR PROVISIONS FOR ALL STATE PROJECTS (000-008) LUBBOCK, ETC. PROJECT NO. C 905-00-117 NET LENGTH OF PROJECT =0.001 MI LIMITS: VARIOUS LOCATIONS IN THE LUBBOCK DISTRICT FOR THE CONSTRUCTION OF: TRAFFIC CONTROL DEVICES-PREFABRICATION MARKINGS CASTRO PARMER FLOYD HALE BAILEY LAMB **1** 2591 HOCKLEY LUBBOCK OSBYTO 1894 1525 COCHRAN CROSBY 3261 MEA NE W HOME TERRY YOAKUM LYNN DI A OWNEIEI GARZA 16 RAILROAD CROSSINGS: 3112 BNSF- 014849L, 017257L, 017264W, 017280F, 017271G, 276582V, 017334J, 014891K, 014870S, 015001B, 017385U, 017383F PLSX-014982R, 014973S, 014987A NO EQUATIONS NO EXCEPTIONS NO SCALE NO TDLR REVIEW REQUIRED 2411 DAWSON L&WR-017757J 1429 GAINES

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FHWA		STATE PROJECT NO.						
DIVISION		C 90	5-00-11	7	001			
STATE		DISTRICT	COUNTY					
TEXA	s	LBB	LUB	BOCK, E	TC.			
CONTRO	L SECTION		JOB	JOB HIGHWA				
0905	;	00	117 VAR					

DESIGN SPEED = VARIES ADT = VARIES FUNCTIONAL CLASS = VARIES



**I** BY TEXAS DEPARTMENT OF TRANSPORTATION ALL RIGHTS RESERVED 2023 1/5/2023 SUBMITTED FOR LETTING DocuSigned by perenny T. Olaring P.E -AB1484D2F6DA4F6... DISTRICT DIRECTOR OF TRANSPORTATION OPERATIONS 1/5/2023 RECOMMENDED FOR LETTING uSigned by Sheller (. Hanis P.E. -F9984108931347C DISTRICT DESIGN ENGINEER 1/5/2023

APPROVED FOR LETTING:

DocuSigned by: Story P. Warren P.E. DISTRICT ENGINEER

### **INDEX OF SHEETS**

#### SHEET NO. DESCRIPTION 1. GENERAL 001 TITLE SHEET 002 PROJECT INDEX 003,003A-003C GENERAL NOTES 004,004A ESTIMATE AND QUANTITY SHEET CONSTRUCTION SEQUENCE 005 PROJECT SUMMARY SHEET 006-009 2. TRAFFIC CONTROL BC (1-12)-21 010-021 TCP (3-1 & 3-2)-13 022-023 TCP (3-4)-13 024 3. TRAFFIC PREFAB TY B COUNTY LAYOUTS 025-051 052-082 PREFAB TY C COUNTY LAYOUTS 083-084 MULTIPOLY COUNTY LAYOUT 085-086 RCD (1-2)-22 087-090 PM (1- 4)-22 091 CPM (1)-14 FPM (1-6)-22 092-097 098 TS (PL-1)-18 4. RAILROAD 099-100 NON-BRIDGE-PROJECTS SHEETS 101-102 BNSF SCOPE OF WORK SHEET 103-104 LWR SCOPE OF WORK SHEET 105-106 PLSX SCOPE OF WORK SHEET

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#### 5. ENVIRONMENTAL 107

EPIC



Jeremy T. Dearing, P.E.

01/05/2023

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE BY A 🛛 📌 HAVE BEEN ISSUED BY ME AND ARE APPLICABLE TO THIS PROJECT.



FED.RD. DIV.NO					SHEET NO.			
6					002			
STATE		DIST.		County				
TEXAS	s	LBB LUBBOCK,ETC.						
CONT.		SECT.	JOB	HIGHWA	Y NO.			
0905		00	117	VA	۲			
		FILE NAME DAT						
202	23 SPECIALTY 1/4/2023							

# **County: LUBBOCK, ETC**

**Highway: VARIOUS** 

## **GENERAL NOTES:**

## General Requirements and Covenants - Items 1 thru 9

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

Jeremy.Dearing@txdot.gov (806)-748-4564 JD.Aaniz@txdot.gov (806)-748-4307

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

All contractor questions will be reviewed by the Engineer. Once a response is developed, it will be posted to https://tableau.txdot.gov/views/ProjectInformationDashboard/NoticetoContractors. Use the dashboard to navigate to the project you are interested in by scrolling or filtering the dashboard using the controls on the left. Hover over the blue hyperlink for the project you want to view the Q&A for and click on the link in the window that pops up.

# **Item 1 – Abbreviations and Definitions**

Contract Prosecution – Each contract awarded by the Department stands on its own and as such, is separate from other contracts. A contractor awarded multiple contracts, must be capable and sufficiently staffed to concurrently process any and all contracts at the same time.

# **Item 2 – Instructions to Bidders**

The construction time determination schedule will be posted on the Contractor Q&A FTP site.

View the plans on-line or download from the web at: http://www.dot.state.tx.us/business/plansonline/agreement.htm Choose "I Agree" then, "Click here", then "State-Let-Construction", pick the letting month, then "Plans" and then choose the plans set.

Order plans from any of the plan reproduction companies shown on the web at: http://www.dot.state.tx.us/business/contractors consultants/repro companies.h tm

By signing this proposal, a bidder acknowledges that he/she has a copy of the "Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges", adopted by the Texas Department of Transportation, November 1, 2014. This specification book may be purchased from the Department or downloaded at: http://www.txdot.gov/business/resources/txdot-specifications.html

# Utilities

Overhead and underground utility installations exist within the project limits.

Control: 0905-00-117

Sheet 003

**County: LUBBOCK, ETC** 

**Highway: VARIOUS** 

# Item 5 – Control of the Work

Perform construction surveying in accordance with Article 5.9.3, "Method C."

Replace all damaged ROW and USGS monuments at the contractor's expense.

When deviation from the plans is requested by the Contractor, but not required for installation, the Contractor will bear any additional costs associated with the deviation.

The construction, operation, and maintenance of the proposed project will be consistent with the state implementation plan as prepared by the Texas Commission on Environmental Quality.

At the end of each day remove from the ROW, inside or outside the project limits, any excess material and debris resulting from construction.

Correct any deficiencies identified during the final inspection including required paperwork.

Submit all required paperwork within 60 days of project acceptance.

# **Item 6 – Control of Materials**

Use materials from pre-qualified producers. A list of material producers pre-qualified by the Construction Division (CST) of the Texas Department of Transportation (TxDOT) can be found at the following website: http://www.txdot.gov/business/resources/producer-list.html

In addition to the requirements of the plans and specifications, make all material and equipment furnished, installed, modified, tested, or otherwise used on this contract, and becoming the property of TxDOT, fully functional within the manufacturer normal specifications, warranties, and guarantees. Make any additional functions of the material and equipment normally supplied by the manufacturer, but not specified by TxDOT, completely functional.

## Article 6.6

Store material off TxDOT property or Right of Way unless approved by the project supervisor.

Article 6.11

Repair damage to the Right of Way to the satisfaction of the project supervisor.

# Item 7 – Legal Relations and Responsibilities

Coordinate street closures with the local fire, police, and other emergency personnel.

# Control: 0905-00-117

# Sheet 003

# **County: LUBBOCK, ETC**

## **Highway: VARIOUS**

Maintain access to adjacent property at all times.

Notify, in writing, each residence and business 10 days prior to beginning construction of the phase/phases that are expected to affect their ingress and egress. This notice may be hand delivered or mailed.

When applicable, comply with all requirements of the Environmental Permits Issues and Commitments (EPIC) sheets.

Project actions would be avoided during the lekking season (March 15<sup>th</sup>-July 15<sup>th</sup>) between the hours 3 AM to 9 AM without prior approval from the District Environmental Staff. Heavy equipment cannot be operated during this time to avoid noise impacts to the LPC (Lesser Prairie Chicken).

Project actions in the following counties will not occur during lekking season (March 15<sup>th</sup>-July 15<sup>th</sup>): Bailey, Cochran, and Yoakum.

TXDOT will provide an informational packet to project contractors, including information on LPC habitat that may occur outside of the Right of Way and requirements to avoid effects to the LPC or its habitat.

PSL locations planned within TXDOT Right of Way must receive approval from the District Environmental staff prior to installation/use.

Dispose of all waste materials in compliance with local, state, and federal regulations. Submit a list of all approved waste sites to the Engineer for review.

All vehicles in the work zone shall use flashing amber strobe lights visible 360 degrees.

No significant traffic generator events identified.

### **Item 8 - Prosecution and Progress**

This project is to be completed in NINETY (90) WORKING DAYS and SIX (6) MONTHS of barricades in accordance with the contract documents.

Work must begin by May 15, 2023.

Monthly schedule updates are a very important aspect of managing the progress of this project. The Engineer may withhold the monthly estimate if the schedule update has not been received.

A bar chart will be required on this project.

Do not begin work before sunrise or end work after sunset unless authorized by the Engineer, and remove all equipment from the roadway before sundown.

# **County: LUBBOCK, ETC**

### **Highway: VARIOUS**

Working days will be computed and charged in accordance with Article 8.3.1.4 Standard Workweek.

Work hours will be restricted inside Lubbock City Limits only to off-peak hours as defined in the following table:

Peal	k Hours	Off-Peak Hours			
7 to 9 AM	4 to 6 PM	9AM to 4PM	All day Saturday		
Monday through	Monday through	and	and Sunday		
Friday	Friday	6 PM to 7 AM			
-		Monday through			
		Friday			

Work is allowed to be performed during the nighttime, with Engineer's approval.

Work that interferes with traffic is required to be performed during off-peak hours, 6 pm until 7 am.

Shut down operations the working day before the following major traffic generating holidays: January 1<sup>st</sup> (New Year's); Last Monday in May (Memorial Day); July 4<sup>th</sup> (Independence Day); First Monday in September (Labor Day); Fourth Thursday in November (Thanksgiving); and December 24<sup>th</sup> (Christmas Eve).

Payment for final 3% mobilization will be made once all project signage has been removed and all other items according to Article 500.3. Timeliness for submittal of required paperwork and correction of deficiencies is a consideration in developing the final contractor evaluation score.

# **Item 9 - Measurement and Payment**

Submit material-on-hand payment requests by the monthly estimate cutoff date.

# Item 502 - Barricades, Signs And Traffic Handling

Prior to beginning construction, the Engineer shall approve the routing of traffic and sequence of work.

Additional signs and barricades as directed by the Engineer shall be considered subsidiary to Item 502.

Provide flashing portable arrow panels for all lane closures.

Wash the channelizing devices and barricades following each rainfall or snowfall event and at times deemed necessary by the Engineer.

Control: 0905-00-117

Sheet 003A

# Sheet 003A

# **County: LUBBOCK, ETC**

# **Highway: VARIOUS**

To ensure the safety and convenience of traffic, flaggers may be required when construction machinery is being operated along, across, or adjacent to lanes carrying traffic. If considered necessary by the Engineer, supplemental signs and barricades may be required.

Fill any holes left by barricade or sign supports and restore the area to its original condition.

Traffic switches will not be permitted on Fridays or any working day preceding a holiday unless authorized by the Engineer.

Cones or chevrons may be used in lieu of vertical panels at the discretion of the Engineer. Cones cannot be used to separate opposing traffic.

The Contractor shall bid the traffic control plan shown in the plans. Any proposed alterations to the TCP (combining work areas / phasing / etc.) shall be submitted to the Engineer at least 10 days prior to anticipated changes.

Square tubing sign supports may be used for temporary construction signs. Aluminum and wood signs may be mounted if the vertical supports are embedded into the ground. Square tubing supports on skids which are typically held in place with sand bags can only support signs made of light weight flutted plastic.

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.

Correct all noted deficiencies within 7 calendar days, otherwise, cease all operations until the noted deficiencies are corrected.

Stockpiles that meet the barricade requirements as shown on the BC(10) Standard are required to be erected at the time of material delivery in the Right-of-Way and maintained as long as the stockpile exists. Payment for Material-on-Hand will be withheld from the estimate for inadequate barricades or the failure to maintain barricades on a per stockpile basis as determined by the Engineer.

Like new traffic control devices will be required at the initial setup for all projects or as approved by the Engineer.

Provide flags and a CW8-15P "MOTORCYCLE WARNING" plaque on all CW20-1D "ROAD WORK AHEAD" signs except on side roads.

# **County: LUBBOCK, ETC**

### **Highway: VARIOUS**

Use only the work zone speed limit and TCP signs that are relevant to the active work area and as directed. Reset signs for subsequent work phases as work progresses and approved by the Engineer. Reset normal speed limit signs at the ends of work zones.

All bid items and work requiring traffic control is the responsibility of the contractor, even when not explicitly detailed in the plans. Consider this work subsidiary to Item 502.

TMAs and Portable Changeable Message Boards will not be used as Arrow Boards.

# Item 506 - Temporary Erosion, Sedimentation, and Environmental Controls

No SW3P is required for this project, but should it be determined a plan is needed, it will be developed by the State and implemented by the Contractor.

No N.O.I. is required for this project.

The soil area disturbed by this project, including all disturbed areas within the limits of this project as described in the Contract and at Contractor project specific locations (PSLs) within one mile of the project limits, contributes to the establishment of the Texas Commission on Environmental Quality (TCEQ) Construction General Permit (CGP) requirements for storm water discharges. The Department will obtain an authorization from the TCEQ to discharge storm water for construction activities shown on the plans. The Contractor shall obtain the required authorization from the TCEQ for Contractor project specific locations (PSLs) for construction support activities off the right-of-way. As directed by the Engineer, the Contractor shall obtain any required authorization from the TCEQ for on-site PSLs. When the total area disturbed within the project limits and at PSLs within one mile of the project limits exceeds five acres, the Contractor shall provide a copy of the Contractor's Notice of Intent (NOI) submission and Construction General Permit for PSLs on the right-of-way to the Engineer (and submit a copy of NOIs to appropriate MS4 operators).

Sediments removed from BMPs shall be paid for by force account. The Contractor shall submit an invoice for the work.

# Item 666 - Reflectorized Pavement Markings

Reference the existing striping in order to stripe the roadway as it was prior to construction.

Mark the location of standard pavement markings, including barrier lines, no passing zones, gores, and transitions adjusting to meet latest standards or as directed by the Engineer.

The yellow or white long-line striping for re-striping operations will not lag one another by more than four (4) working days. The performance period for a roadway will not begin for a section of roadway or a project until all required striping for that section or project has been completed.

Control: 0905-00-117

Sheet 003B

# Sheet 003B

# **Highway: VARIOUS**

Sheet 003C

**Highway: VARIOUS** 

Provide a schedule and notify the District Traffic Office a minimum of 3 days prior to any striping operation. Contact via email at <u>LBB-TRFOPS@TxDOT.GOV</u>. If not notified, the time frame for testing and meeting the Retroreflectivity requirements in article 4.4 will start the day the department is made aware of that the markings have been applied.

# **Item 668 - Prefabricated Pavement Markings**

Reference the "Standard Highway Sign Designs for Texas" manual for dimensions to words and symbols.

Manufacturer's sealer is subsidiary to this item. Surface preparation will be paid for separately under Item 678.

# **Item 677 - Eliminating Existing Pavement Markings and Markers**

Eliminate existing longitudinal pavement markings by water blasting only and for transverse markings use mechanical method.

Eliminate existing pavement markings on concrete surfaces by the Water Blasting Method.

# **Item 678 - Pavement Surface Preparation for Markings**

The Contractor must wait 24 hours after water blasting before installing pavement markings.

Restriping of eliminated stripes shall be complete within three (3) calendar days after elimination. Should the three (3) days pass, and the stripe is not restored, all work shall cease until restriping is caught up.

# Item 6038 - Multipolymer Pavement Markings (MPM)

Provide modified urethane or modified polyacrylate for all multipolymer pavement markings.

Provide a schedule and notify the District Traffic Office a minimum of 3 days prior to any striping operation. Contact via email at <u>LBB-TRFOPS@TxDOT.GOV</u>. If not notified, the time frame for testing and meeting the Retroreflectivity requirements in article 4.2 will start the day the department is made aware of that the markings have been applied.

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

Provide shadow vehicles equipped with Truck Mounted Attenuators (TMA) as shown on Traffic Control Plan (TCP) standards.

Provide 2 TMAs per crew for mobile use and 3 mobile TMAs for freeways. Mobile TMAs will be used for moving operations such as striping. Payment will be made by the day for each TMA used in mobile operations.

# Control: 0905-00-117

# Sheet 003C



#### CONTROLLING PROJECT ID 0905-00-117

DISTRICT Lubbock HIGHWAY Various **COUNTY** Lubbock

**Estimate & Quantity Sheet** 

		CONTROL SECTIO	ON JOB	0905-00	-117			
		PROJ	ECT ID	A00131	.100		TOTAL	
		C	OUNTY	Lubbo	ck	TOTAL EST.		
		HIGHW		Vario	us		FINAL	
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	-		
	500-6001	MOBILIZATION	LS	1.000		1.000		
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	МО	6.000		6.000		
	668-6006	PREFAB PAV MRK TY B (W)(6")(BRK)	LF	1,040.000		1,040.000		
	668-6007	PREFAB PAV MRK TY B (W)(6")(SLD)	LF	2,970.000		2,970.000		
	668-6010	PREFAB PAV MRK TY B (W)(6")(BRK)CNTST	LF	3,430.000		3,430.000		
	668-6012	PREFAB PAV MRK TY B (W)(8")(DOT)	LF	192.000		192.000		
	668-6013	PREFAB PAV MRK TY B (W)(8")(LNDP)	LF	87.000		87.000		
	668-6014	PREFAB PAV MRK TY B (W)(8")(SLD)	LF	9,600.000		9,600.000		
	668-6016	PREFAB PAV MRK TY B (W)(12")(SLD)	LF	612.000		612.000		
	668-6017	PREFAB PAV MRK TY B (W)(18")(SLD)	LF	156.000		156.000		
	668-6018	PREFAB PAV MRK TY B (W)(24")(SLD)	LF	5,986.000		5,986.000		
	668-6034	PREFAB PAV MRK TY B (W)(36")(YLD TRI)	EA	49.000		49.000		
	668-6045	PREFAB PAV MRK TY B (Y)(6")(BRK)	LF	630.000		630.000		
	668-6047	PREFAB PAV MRK TY B (Y)(6")(SLD)	LF	17,072.000		17,072.000		
	668-6050	PREFAB PAV MRK TY B (Y)(12")(SLD)	LF	390.000		390.000		
	668-6059	PREFAB PAV MRK TY B (MULTI)(SHIELD)	EA	4.000		4.000		
	668-6074	PREFAB PAV MRK TY C (W) (12") (SLD)	LF	400.000		400.000		
	668-6075	PREFAB PAV MRK TY C (W) (18") (SLD)	LF	750.000		750.000		
	668-6076	PREFAB PAV MRK TY C (W) (24") (SLD)	LF	7,470.000		7,470.000		
	668-6077	PREFAB PAV MRK TY C (W) (ARROW)	EA	183.000		183.000		
	668-6078	PREFAB PAV MRK TY C (W) (DBL ARROW)	EA	25.000		25.000		
	668-6083	PREFAB PAV MRK TY C (W) (LNDP ARROW)	EA	6.000		6.000		
	668-6089	PREFAB PAV MRK TY C (W) (RR XING)	EA	26.000		26.000		
	668-6092	PREFAB PAV MRK TY C (W) (36")(YLD TRI)	EA	191.000		191.000		
	668-6106	PREFAB PAV MRK TY C (Y) (12") (SLD)	LF	980.000		980.000		
	668-6115	PREFAB PAV MRK TY C (MULTI) (SHIELD)	EA	1.000		1.000		
	668-6121	PREFAB PAV MRK TY B (W)(WORD)CNTST	EA	7.000		7.000		
	668-6122	PREFAB PAV MRK TY B (W)(ARROW)CNTST	EA	115.000		115.000		
	668-6123	PREFAB PAV MRK TY B(W)(LNDP ARRW)CNTST	EA	6.000		6.000		
	668-6129	PREFAB PAV MRK TY B (W)(DBL ARRW)CNTST	EA	20.000		20.000		
	668-6130	PREFAB PAVMRK TY B(W)(UTURN ARROW) CNTST	EA	4.000		4.000		
	677-6001	ELIM EXT PAV MRK & MRKS (4")	LF	58,272.000		58,272.000		
	677-6002	ELIM EXT PAV MRK & MRKS (6")	LF	7,840.000		7,840.000		
	677-6003	ELIM EXT PAV MRK & MRKS (8")	LF	11,635.000		11,635.000		
	677-6005	ELIM EXT PAV MRK & MRKS (12")	LF	12,582.000		12,582.000		
	677-6006	ELIM EXT PAV MRK & MRKS (18")	LF	794.000		794.000		
	677-6007	ELIM EXT PAV MRK & MRKS (24")	LF	8,213.000		8,213.000		

**TxDOT**CONNECT

DISTRICT	DISTRICT COUNTY		SHEET
Lubbock	Lubbock	0905-00-117	004



### CONTROLLING PROJECT ID 0905-00-117

DISTRICT Lubbock HIGHWAY Various **COUNTY** Lubbock

**Estimate & Quantity Sheet** 

		CONTROL SECTIO	N JOB	0905-00	)-117		
		PROJE	CT ID	A00131	100		
		cc	UNTY	Lubbo	ock	TOTAL EST.	TOTAL FINAL
		HIG	HWAY	Vario	us		
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	299.000		299.000	
	677-6009	ELIM EXT PAV MRK & MRKS (DBL ARROW)	EA	43.000		43.000	
	677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA	3.000		3.000	
	677-6016	ELIM EXT PAV MRK & MRKS (RR XING)	EA	23.000		23.000	
	677-6018	ELIM EXT PAV MRK & MRKS (18")(YLD TRI)	EA	45.000		45.000	
	677-6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA	124.000		124.000	
	677-6020	ELIM EXT PAV MRK & MRKS (MED NOSE)	EA	5.000		5.000	
	677-6036	ELIM EXT PAV MRK & MRKS (UTURN ARROW)	EA	4.000		4.000	
	6020-6028	MLTPLY PV MK (Y) (MED NOSE)	EA	5.000		5.000	
	6038-6004	MULTIPOLYMER PAV MRK (W)(6")(SLD)	LF	16,940.000		16,940.000	
	6038-6005	MULTIPOLYMER PAV MRK (W)(6")(BRK)	LF	7,540.000		7,540.000	
	6038-6007	MULTIPOLYMER PAV MRK (W)(8")(SLD)	LF	1,690.000		1,690.000	
	6038-6011	MULTIPOLYMER PAV MRK (W)(12")(SLD)	LF	1,582.000		1,582.000	
	6038-6012	MULTIPOLYMER PAV MRK (W)(12")(LNDP)	LF	982.000		982.000	
	6038-6017	MULTIPOLYMER PAV MRK (Y)(6")(SLD)	LF	18,420.000		18,420.000	
	6185-6005	TMA (MOBILE OPERATION)	DAY	540.000		540.000	
	08	CONTRACTOR FORCE ACCOUNT EROSION CONTROL MAINTENANCE (NON-PARTICIPATING)	LS	1.000		1.000	
		CONTRACTOR FORCE ACCOUNT SAFETY CONTINGENCY (NON-PARTICIPATING)	LS	1.000		1.000	



DISTRICT	DISTRICT COUNTY		SHEET
Lubbock	Lubbock	0905-00-117	004A

# **CONSTRUCTION SEQUENCE**

- 1. PROJECT TIME WAS DETERMINED USING 3 CREWS TO WORK ON VARIOUS BID ITEMS SUCH AS MULTIPOLYMER, TYPE B & TYPE C.
- 2. DEVISE A SCHEDULE TO INCLUDE THE EASTERN COUNTIES FIRST & WORK TOWARDS THE WEST.
- 3. THE SCHEDULE SHOULD INCLUDE TYPE B FIRST AND MULTIPOLYMER THEN WORK ON TYPE C.



Jeremy T. Deaun, P.E.

01/05/2023

# CONSTRUCTION SEQUENCE

FED.RD. DIV.NO.									
6					005				
STATE		DIST. County							
TEXAS	S	LBB LUBBOCK,ETC.							
CONT.		SECT.	JOB	HIGHWA	Y NO.				
0905		00	VAF	X					
		FILE NAME DATE							
202	3.9	SPECIA	I TY	1/4/20	23				

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County	6"WS	6"WB	6" WB CNTST	8" W(DOT)	8"W(LNDP)	8"WS	12"WS	18"WS	24"WS	36" W(YLD TRI)	6"YB	6"YS	12"YS
	Item 668	ltem 668	Item 668	Item 668	Item 668	Item 668	Item 668	ltem 668	Item 668	Item 668	Item 668	Item 668	Item 668
1. Bailey	360	70	0	0	0	160	120	0	30	0	0	580	0
2. Castro	0	0	0	0	0	0	0	0	0	0	0	0	0
3. Cochran	0	0	0	0	0	0	0	0	0	0	0	0	0
4. Crosby	0	0	0	0	0	0	0	0	0	0	0	0	0
5. Dawson	0	0	0	0	0	0	0	0	0	0	0	0	0
6. Floyd	990	0	350	0	57	810	220	0	72	14	80	2,060	240
7. Gaines	0	100	0	0	0	200	0	0	300	0	0	400	0
8. Garza	0	0	0	0	0	0	0	0	0	0	0	0	0
9. Hale	820	0	0	0	0	0	0	0	60	0	0	840	0
10. Hockley	0	0	0	0	0	0	0	0	0	0	0	0	0
11. Lamb	0	0	0	0	0	0	0	0	0	0	0	0	0
12. Lubbock	700	0	2,560	192	30	7,097	202	0	3,100	20	150	7,010	150
13. Lynn	100	300	0	0	0	0	0	0	334	0	0	1,060	0
14. Parmer	0	570	0	0	0	0	0	156	696	8	280	2,450	0
15. Swisher	0	0	0	0	0	0	0	0	0	0	0	0	0
16. Terry	0	0	520	0	0	1,333	70	0	1,394	7	120	2,672	0
17. Yoakum	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	2,970	1,040	3,430	192	87	9,600	612	156	5,986	49	630	17,072	390

County	Multishield (US)	Word	Arrow (Left) (CNTST)	Arrow (Right) (CNTST)	Arrow (Straight) (CNTST)	Arrow (DBL) (Straight-Right) (CNTST)	Arrow (DBL) (Straight-Left) (CNTST)	Arrow (Uturn) (CNTST)	(Y) (MED NOSE) (MULTIPOLY)	Arrow (LNDP) (CNTST)
	Item 668	Item 668	Item 668	Item 668	Item 668	Item 668	Item 668	Item 668	Item 668	Item 668
1. Bailey	0	0	2	2	0	0	0	0	0	0
2. Castro	0	0	0	0	0	0	0	0	0	0
3. Cochran	0	0	0	0	0	0	0	0	0	0
4. Crosby	0	0	0	0	0	0	0	0	0	0
5. Dawson	0	0	0	0	0	0	0	0	0	0
6. Floyd	4	4	0	0	0	0	0	0	0	0
7. Gaines	0	0	4	0	0	0	0	0	0	0
8. Garza	0	0	0	0	0	0	0	0	0	0
9. Hale	0	0	0	0	0	0	0	0	0	0
10. Hockley	0	0	0	0	0	0	0	0	0	0
11. Lamb	0	0	0	0	0	0	0	0	0	0
12. Lubbock	0	3	48	30	6	8	7	4	5	6
13. Lynn	0	0	0	0	0	0	0	0	0	0
14. Parmer	0	0	0	0	0	0	0	0	0	0
15. Swisher	0	0	0	0	0	0	0	0	0	0
16. Terry	0	0	21	2	0	3	2	0	0	0
17. Yoakum	0	0	0	0	0	0	0	0	0	0
Total	4	7	75	34	6	11	9	4	5	6

WORD SUMMARY					
QUANTITY					
3					
3					

	SHIELD SUMMARY								
SHIELD	QUANTITY	DESCRIPTION							
US	0	70							
TOTAL	0								



FED.RD. DIV.NO					SHEET NO.				
6									
STATE		DIST.	County						
TEXAS	S	LBB	LUBB	JBBOCK,ETC.					
CONT.		SECT.	ECT. JOB HIGHWA						
0905		00	117	VAR					
		DAT	E						
202	3.9	1/4/20	23						

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County	4" ELIM	6" EL <b>IM</b>	8" ELIM	12" ELIM	18" ELIM	24" ELIM	Arrow (L) ELIM	Arrow(R) ELIM	Arrow (S)ELIM	Arrow (DBL) (Straight-Right) ELIM	Arrow (DBL) (Straight-Left) ELIM	Word ELIM	36" W(YLD TRI) ELIM	(Y) (MED NOSE) ELIM	Arrow (Uturn) ELIM	Arrow (LNDP) EL <b>I</b> M
	Item 677	Item 677	Item 677	Item 677	Item 677	Item 677	Item 677	Item 677	Item 677	Item 677	Item 677	Item 677	Item 677	ltem 677	Item 677	Item 677
1. Bailey	1,010	0	160	0	0	30	0	0	0	0	0	0	0	0	0	0
2. Castro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3. Cochran	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4. Crosby	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5. Dawson	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6. Floyd	3,670	0	810	860	0	72	0	0	0	0	0	0	0	0	0	0
7. Gaines	500	0	200	256	0	144	4	0	0	0	0	0	0	0	0	0
8. Garza	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9. Hale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. Hockley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11. Lamb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12. Lubbock	10,320	0	7,442	3,194	0	1,552	46	29	6	8	7	3	0	5	4	3
13. Lynn	1,160	300	0	500	0	52	0	0	0	0	0	0	0	0	0	0
14. Parmer	3,300	0	0	0	156	0	0	0	0	0	0	0	8	0	0	0
15. Swisher	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16. Terry	2,952	0	1,333	1,530	0	446	20	2	0	2	2	0	7	0	0	0
17. Yoakum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	22,912	300	9,945	6,340	156	2,296	70	31	6	10	9	3	15	5	4	3

#### WORD SUMMARY

DESCRIPTION	QUANTITY
ONLY	3
TOTAL	3



FED RD DIV NO					SHEET NO.					
6		00								
STATE		DIST. County								
TEXA	S LBB LUBBOCK,ETC									
CONT		SECT. JOB HIGHWA								
0905		00	VAR							
		DAT	E							
202	3 3	1/4/20	23							

# <u>TY C</u>

County	12"WS	18"WS	24"WS	Arrow (Left)	Arrow (Right)	Arrow (Straight)	Arrow (DBL) (Straight-Right)	Arrow (DBL) (Straight-Left)	Arrow (LNDP)	RR XING	36"W (YLD TRI)	12"YS	Multishield (US)
	Item 668	Item 668	Item 668	Item 668	Item 668	ltem 668	Item 668	Item 668	Item 668	Item 668	Item 668	Item 668	Item 668
1. Bailey	0	110	290	0	0	0	0	0	0	2	0	0	0
2. Castro	0	0	186	0	0	0	0	0	0	0	0	0	0
3. Cochran	0	0	146	0	0	0	0	0	0	0	0	0	0
4. Crosby	0	0	358	0	0	0	0	0	0	0	4	0	0
5. Dawson	0	0	118	0	4	0	0	0	0	0	0	0	0
6. Floyd	400	0	222	0	0	0	0	0	0	0	0	0	0
7. Gaines	0	128	222	0	2	0	0	2	0	0	0	0	0
8. Garza	0	0	60	0	0	0	0	0	0	0	0	0	0
9. Hale	0	124	1,096	0	0	0	0	0	0	12	55	0	0
10. Hockley	0	60	250	0	0	0	0	0	0	0	0	0	0
11. Lamb	0	0	758	8	0	0	0	0	0	3	22	0	0
12. Lubbock	0	96	1,836	13	14	4	10	11	6	6	18	980	1
13. Lynn	0	232	560	0	0	0	0	0	0	0	76	0	0
14. Parmer	0	0	110	136	0	0	0	0	0	0	11	0	0
15. Swisher	0	0	562	0	0	0	0	0	0	2	0	0	0
16. Terry	0	0	670	2	0	0	2	0	0	1	5	0	0
17. Yoakum	0	0	26	0	0	0	0	0	0	0	0	0	0
Total	400	750	7,470	159	20	4	12	13	6	26	191	980	1

# **ELIMINATION**

County	12" ELIM	18" ELIM	24" ELIM	Arrow (L) ELIM	Arrow ( R ) ELIM	Arrow (S) ELIM	Arrow (DBL) (Straight-Right) ELIM	Arrow (DBL) (Striaght-Left) ELIM	Arrow (LNDP) ELIM	RR XING ELIM	18"YLD TRI ELIM	36"YLD TRI ELIM
	Item 677	Item 677	Item 677	Item 677	ltem 677	Item 677	Item 677	Item 677	ltem 677	Item 677	Item 677	Item 677
1. Bailey	330	110	110	0	0	0	0	0	0	2	0	0
2. Castro	0	0	174	0	0	0	0	0	0	0	0	0
3. Cochran	0	0	146	0	0	0	0	0	0	0	0	0
4. Crosby	124	0	286	0	0	0	0	0	0	0	0	0
5. Dawson	0	0	118	0	4	0	0	0	0	0	0	0
6. Floyd	400	0	222	0	0	0	0	0	0	0	0	0
7. Gaines	250	128	77	0	2	0	0	2	0	0	0	0
8. Garza	0	0	60	0	0	0	0	0	0	0	0	0
9. Hale	136	124	1,168	0	0	0	0	0	0	13	45	0
10. Hockley	60	60	214	0	0	0	0	0	0	0	0	0
11. Lamb	152	0	620	8	0	0	0	0	0	3	0	22
12. Lubbock	1,394	96	1,470	13	14	4	9	11	6	1	0	11
13. Lynn	196	120	278	0	0	0	0	0	0	0	0	76
14. Parmer	0	0	110	136	0	0	0	0	0	0	0	0
15. Swisher	0	0	540	0	0	0	0	0	0	4	0	0
16. Terry	636	0	298	2	0	0	2	0	0	0	0	0
17. Yoakum	0	0	26	0	0	0	0	0	0	0	0	0
Total	3,678	638	5,917	159	20	4	11	13	6	23	45	109



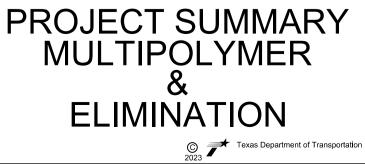
FED.RD. DIV.NO					SHEET NO.			
6					800			
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CONT.		SECT.	JOB	HIGHWA	Y NO.			
0905		00	VAR					
		DAT	E.					
2023	3 5	1/4/20	23					

# **MULTIPOLYMER**

County	6"WS	6"WB	8"WS	12"WS	12"W(LNDP)	6"YS
	Item 6038	Item 6038	Item 6038	ltem 6038	ltem 6038	Item 6038
1. Bailey	0	0	0	0	0	0
2. Castro	0	0	0	0	0	0
3. Cochran	0	0	0	0	0	0
4. Crosby	0	0	0	0	0	0
5. Dawson	0	0	0	0	0	0
6. Floyd	0	0	0	0	0	0
7. Gaines	0	0	0	0	0	0
8. Garza	0	0	0	0	0	0
9. Hale	0	0	0	0	0	0
10. Hockley	0	0	0	0	0	0
11. Lamb	0	0	0	0	0	0
12. Lubbock	16,940	7,540	1,690	1,582	982	18,420
13. Lynn	0	0	0	0	0	0
14. Parmer	0	0	0	0	0	0
15. Swisher	0	0	0	0	0	0
16. Terry	0	0	0	0	0	0
17. Yoakum	0	0	0	0	0	0
Total	16,940	7,540	1,690	1,582	982	18,420

# **ELIMINATION**

County	4' ELIM	6" ELIM	8" ELIM	12" ELIM
	Item 677	Item 677	Item 677	Item 677
1. Bailey	0	0	0	0
2. Castro	0	0	0	0
3. Cochran	0	0	0	0
4. Crosby	0	0	0	0
5. Dawson	0	0	0	0
6. Floyd	0	0	0	0
7. Gaines	0	0	0	0
8. Garza	0	0	0	0
9. Hale	0	0	0	0
10. Hockley	0	0	0	0
11. Lamb	0	0	0	0
12. Lubbock	35,360	7,540	1,690	2,564
13. Lynn	0	0	0	0
14. Parmer	0	0	0	0
15. Swisher	0	0	0	0
16. Terry	0 0		0	0
17. Yoakum	0	0	0	0
Total	35,360	7,540	1,690	2,564



FED.RD. DIV.NO					SHEET NO.				
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STATE		DIST. County							
TEXA	S LBB LUBBOCK,ETC								
CONT.		SECT.	JOB	HIGHWA	Y NO.				
0905		00	VAR						
		DAT	re						
202	3 5	1/4/20	23						

### 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 Sian 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, CSJ limit signs are not required.
- 11. Traffic control devices should be in place only while work is actually in progress or a definite need exists.
- 12. The Engineer has the final decision on the location of all traffic control devices.
- 13. Inactive equipment and work vehicles, including workers' private vehicles must be parked away from travel lanes. They should be as close to the right-of-way line as possible, or located behind a barrier or guardrail, or as approved by the Engineer.

#### WORKER SAFETY NOTES:

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

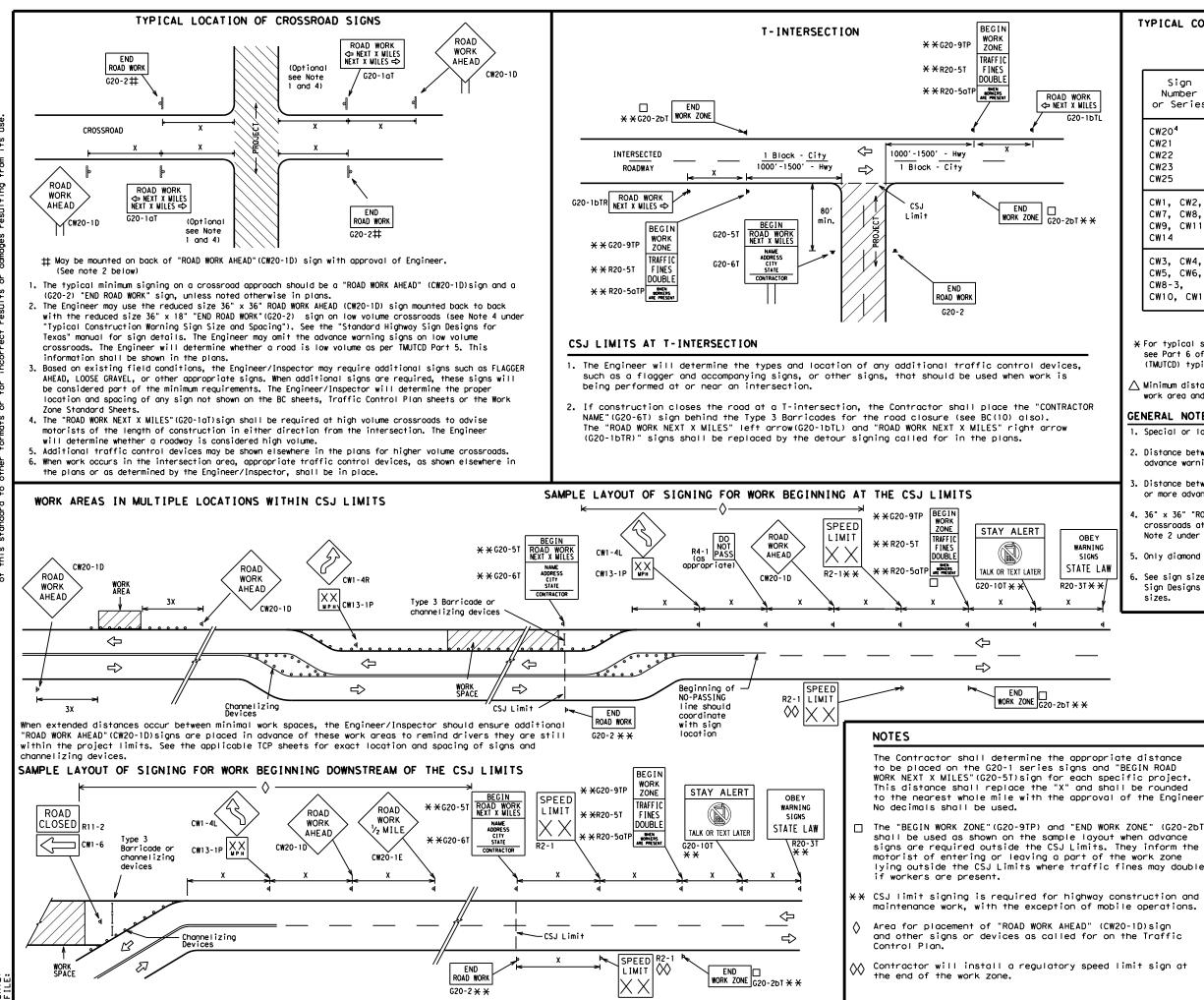
#### COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

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

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

Traffic Safety Division Standard         BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS         BC (1) - 21         FILE:       DC-21.dgn         FILE:       DC-21.dgn         Movember 2002       CONT         REVISIONS 9-07       0905       00         P-14       DIST       CONTY       SHEET NO.	SHEE	<u> </u>	0F	12									
GENERAL NOTES AND REQUIREMENTS           BC (1) - 21           FILE:         bc-21.dgn           DN:         TXDOT           CXT XDOT         NOVEMBER 2002           CONT         SECT           JOB         HIGHMAY           4-03         7-13           9-07         8-14	Texas Department of	Safety Division											
© T xDOT         November         2002         CONT         SECT         JOB         HIGHWAY           4-03         7-13         0905         00         117         VAR           9-07         8-14         DIST         COUNTY         SHEET NO.	BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS												
REVISIONS         0905         00         117         VAR           9-07         8-14         DIST         COUNTY         SHEET NO.	FILE: bc-21.dgn	DN: T)	<dot< th=""><th>ск: TxDOT</th><th>DW:</th><th>TxDOT</th><th>ск: TxDOT</th></dot<>	ск: TxDOT	DW:	TxDOT	ск: TxDOT						
4-03 7-13 9-07 8-14 0505 00 117 VAR DIST COUNTY SHEET NO.	<u>)</u>	CONT	SECT	JOB			HIGHWAY						
9-07 8-14 DIST COUNTY SHEET NO.		0905	00	117			VAR						
5-10 5-21 LBB LUBBOCK,ETC. 010		DIST		COUNTY			SHEET NO.						
95		LBB	LL	JBBOCK	,ET	C.	010						

SHEET 1 OF 12



TYPICAL	CONSTRUCTION	WARNING	SIGN	SIZE	AND	SPACING <sup>1,5,6</sup>

SIZE

Sign Number or Series	Conventional Road	Expressway/ Freeway
CW20 <sup>4</sup> 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 <sup>2</sup>
60	600 <sup>2</sup>
65	700 <sup>2</sup>
70	800 <sup>2</sup>
75	900 <sup>2</sup>
80	1000 <sup>2</sup>
*	* 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.

9-07 8-14

7-13 5-21

96

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

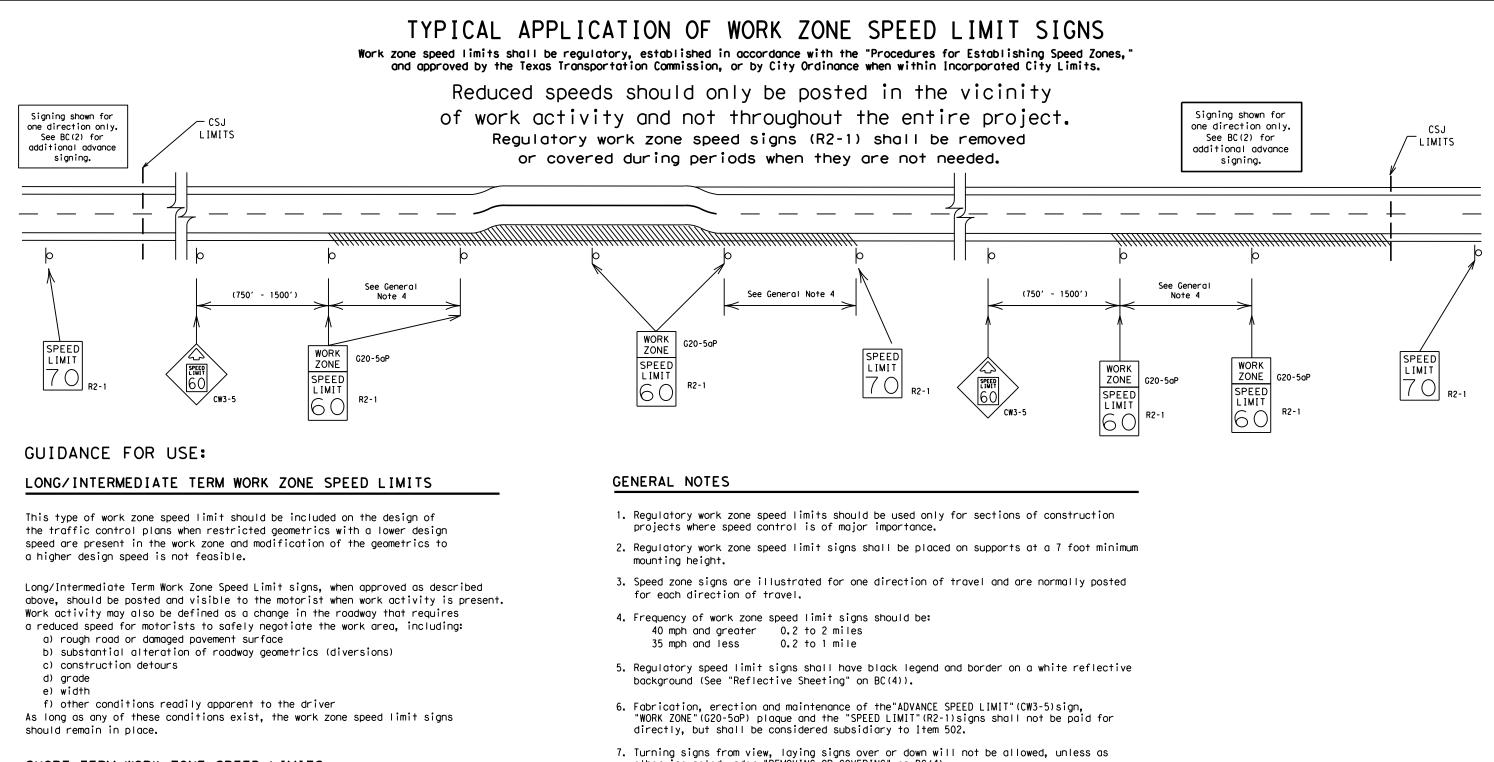
	LEGEND											
	цара Туре 3 Barricade											
	000 Channelizing Devices											
		4	Sign									
-	X See Typical Construction Warning Sign Size and Spacing chart or the TMUTCD for sign spacing requirements.											
	SHEET 2 OF 12											
r.	Texas Department of Transportation											
e	BARRICADE AND CONSTRUCTION PROJECT LIMIT											
	FILE: 1	oc-21.dgn	BC		<b>) -</b>	- <b>21</b>	TxDOT	ск: ТхDOT				
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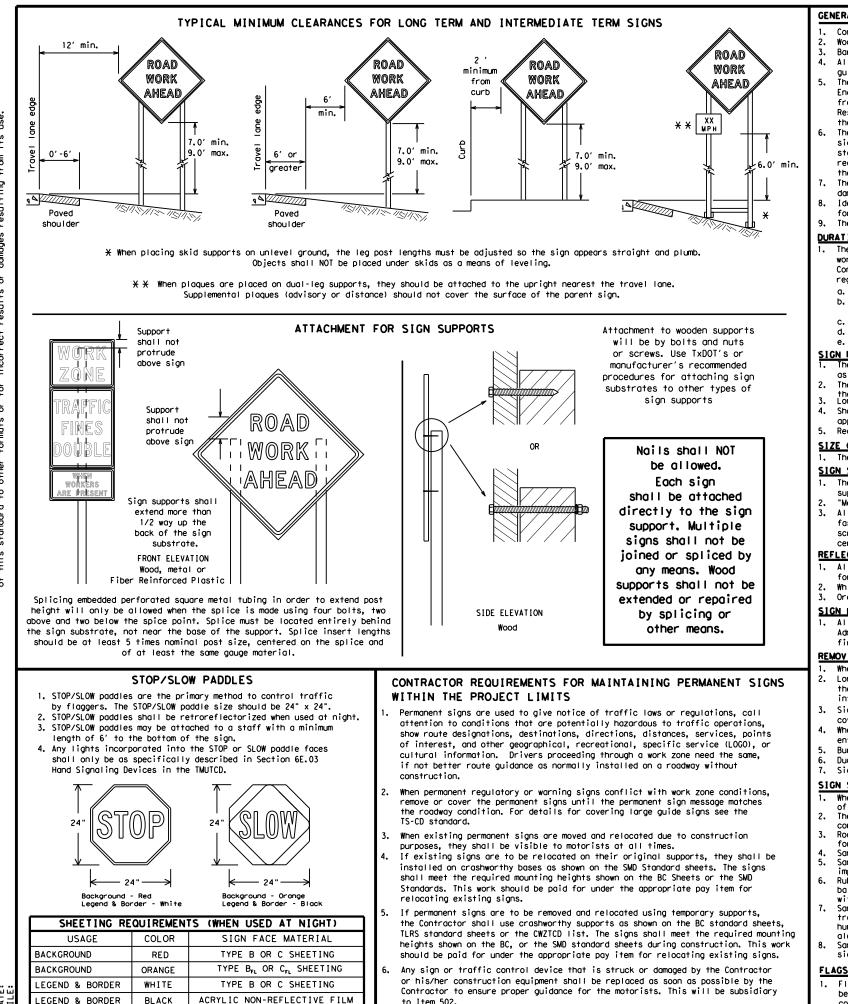
#### SHORT TERM WORK ZONE SPEED LIMITS

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

Short Term Work Zone Speed Limit signs should be posted and visible to the motorists only when work activity is present. When work activity is not present, signs shall be removed or covered. (See Removing or Covering on BC(4)).

- 7. Turning signs from view, laying signs over or down will not be allowed, unless as otherwise noted under "REMOVING OR COVERING" on BC(4).
- 8. Techniques that may help reduce traffic speeds include but are not limited to: A. Law enforcement.
  - B. Flagger stationed next to sign.
  - C. Portable changeable message sign (PCMS).
  - D. Low-power (drone) radar transmitter.
  - E. Speed monitor trailers or signs.
- 9. Speeds shown on details above are for illustration only. Work Zone Speed Limits should only be posted as approved for each project.
- 10. For more specific guidance concerning the type of work, work zone conditions and factors impacting allowable regulatory construction speed zone reduction see TxDOT form #1204 in the TxDOT e-form system.

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	dn: Tx cont 0905 d1st	DN: TXDOT CONT SECT 0905 00 DIST	CONT         SECT         JOB           0905         00         117           DIST         COUNTY	DN: TXDOT         CK: TXDOT         DW:           CONT         SECT         JOB         09055         00         117           DIST         COUNTY         COUNTY         COUNTY         COUNTY	DN: TXDOT CK: TXDOT DW: TXDOT CONT SECT JOB H 0905 00 117 D1ST СОИМТУ



#### 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-term stationary - daytime work that occupies a location for more than 1 hour in a single daylight period.
- Short, duration work that occupies a location up to 1 hour.
- Mobile work that moves continuously or intermittently (stopping for up to approximately 15 minutes.)

#### SIGN MOUNTING HEIGHT

- The bottom of Long-term/intermediate-term signs shall be at least 7 feet, but not more than 9 feet, above the paved surface, except as shown for supplemental plaques mounted below other signs.
- the 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

#### 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.

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

to Item 502.

LEGEND & BORDER

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

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"

for rigid signs or DMS-8310 for roll-up signs. The web address for DMS specifications is shown on BC(1). 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<sub>FL</sub> or Type C<sub>FL</sub>, 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

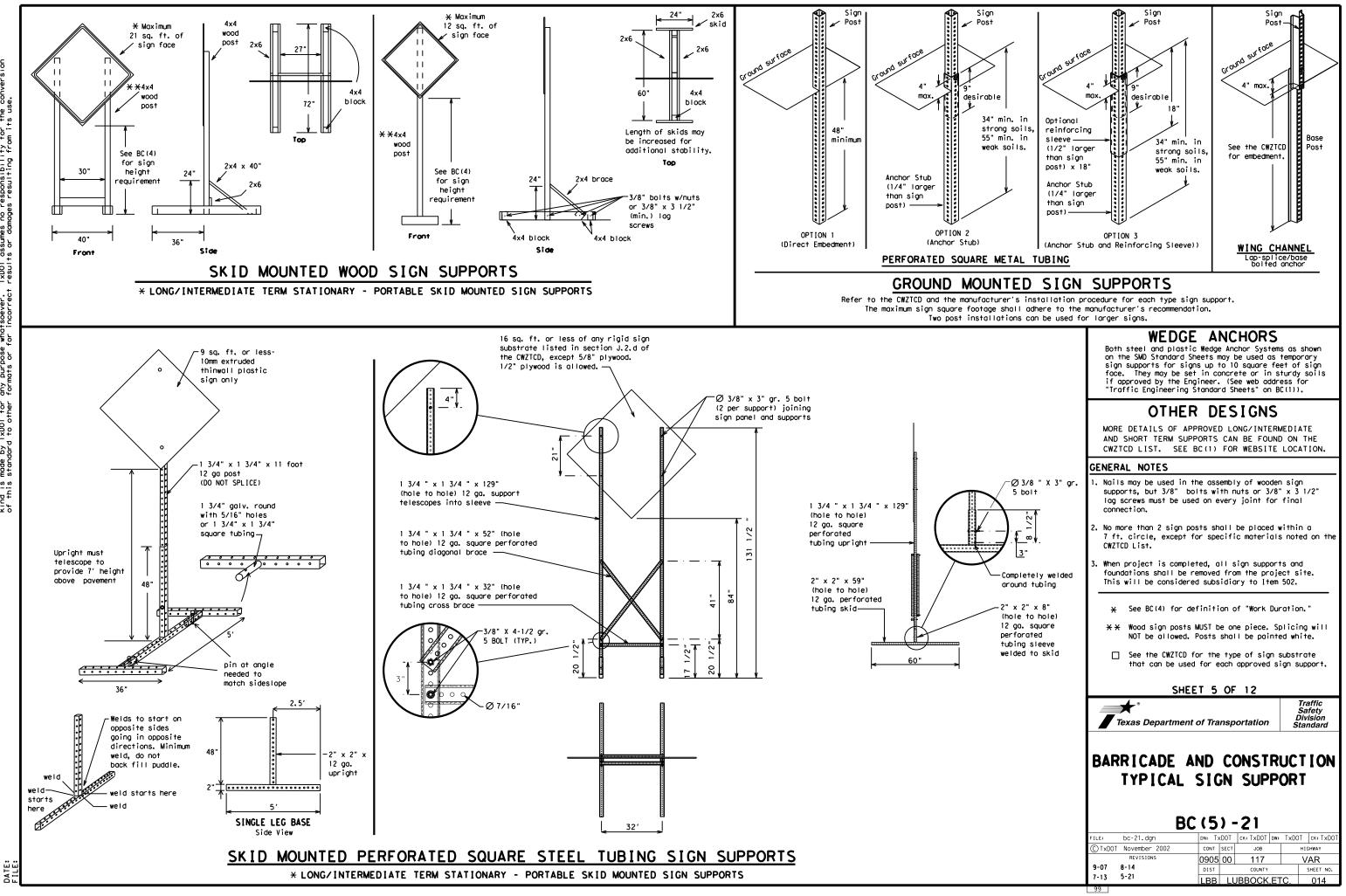
When signs are covered, the material used shall be opaque, such as heavy mil black plastic, or other materials which will cover the

SHEET 4 OF 12

**st** Texas Department of Transportation Traffic Safety Division Standard

# BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES

		BC	(4	) -	-21				
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)TxDOT	November 2002		CONT	CONT SECT JOB			нIG	HIGHWAY	
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#### 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.
- 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.

			1
WORD OR PHRASE	ABBREVIATION	WORD OR PHRASE	ABBREVIATION
Access Road	ACCS RD	Major	MAJ
Alternate	ALT	Miles	MI
Avenue	AVE	Miles Per Hour	MPH
Best Route	BEST RTE	Minor	MNR
Boulevard	BLVD	Monday	MON
Bridge	BRDG	Normal	NORM
Cannot	CANT	North	N
Center	CTR	Nor thbound	(route) N
Construction Ahead	CONST AHD	Parking	PKING
CROSSING	XING	Road	RD
Detour Route	DETOUR RTE	Right Lane	RT LN SAT
Do Not	DONT	Saturday	SAT SERV RD
East	E	Service Rood	
Eastbound	(route) E	Shoulder	SHLDR SLIP
Emergency	EMER	Slippery South	S
Emergency Vehicle		Southbound	s (route) S
Entrance, Enter	ENT	Speed	SPD
Express Lane	EXP LN	Street	ST
Expressway	EXPWY	Sunday	SUN
XXXX Feet	XXXX FT		PHONE
Fog Ahead	FOG AHD	Temporary	TEMP
Freeway	FRWY, FWY	Thursday	THURS
Freeway Blocked	FWY BLKD	To Downtown	TO DWNTN
Friday	FRI	Traffic	TRAF
Hazardous Driving	HAZ DRIVING		
Hazardous Material	HAZMAT	Trovelers	TRVLRS
High-Occupancy	HOV	Tuesday Time Minutes	TIME MIN
Vehicle	HWY		
Highway	riw i	Upper Level Vehicles (s)	VEH. VEHS
Hour (s)	HR, HRS	Warning	WARN
Information	INFO	Wednesday	WARN
It Is	ITS	Weight Limit	WTLIMIT
Junction	JCT	Weight Limit West	
Left	LFT	Westbound	(route) W
Left Lane	LFT LN	Westbound Wet Pavement	WET PVMT
Lane Closed	LN CLOSED	Will Not	WONT
Lower Level	LWR LEVEL		WUNI
Maintenance	MAINT		

# RECOMMENDED PHASES AND FORMATS FOR PCMS MESSAGES DURING ROADWORK ACTIVITIES

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

# Phase 1: Condition Lists

#### Road/Lane/Ramp Closure List

	ΠP			,
FREEWAY CLOSED X MILE		FRONTAGE ROAD CLOSED		RO X>
ROAD CLOSED AT SH XXX		SHOULDER CLOSED XXX FT		FL XX
ROAD CLSD AT FM XXXX		RIGHT LN CLOSED XXX FT		RIC NA XX
RIGHT X LANES CLOSED		RIGHT X LANES OPEN		ME TR XX
CENTER LANE CLOSED		DAYTIME LANE CLOSURES		L GF XX
NIGHT LANE CLOSURES		I-XX SOUTH EXIT CLOSED		DE X
VARIOUS LANES CLOSED		EXIT XXX CLOSED X MILE		RO4 F SH
EXIT CLOSED		RIGHT LN TO BE CLOSED		E XX
MALL DRIVEWAY CLOSED		X LANES CLOSED TUE - FRI		TR SI XX
XXXXXXXX BLVD CLOSED	×	LANES SHIFT in	Phase	1 must

Other Condi	tion 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	L ANE S SH I F T

#### Action to Take/Effect on Travel List MERGE FORM RIGHT X LINES RIGHT DETOUR USE XXXXX NEXT RD EXIT X EXITS USE USE EXIT EXIT XXX I-XX NORTH STAY ON USE US XXX I-XX F SOUTH TO I-XX N TRUCKS WATCH USE FOR US XXX N TRUCKS WATCH EXPECT FOR DELAYS TRUCKS PREPARE EXPECT DELAYS то STOP REDUCE END SPEED SHOULDER XXX FT USE USE WATCH OTHER FOR ROUTES WORKERS STAY ĪΝ 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. 2. Roadway designations IH, US, SH, FM and LP can be interchanged as
- 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.

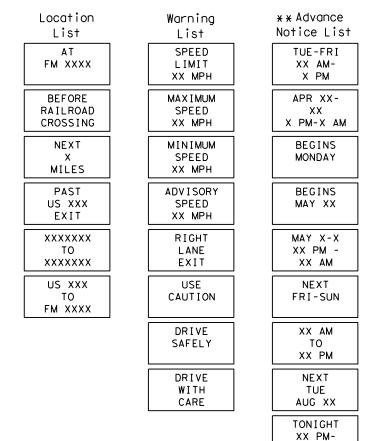
be used with STAY IN LANE in Phase 2.

#### 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 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.

Roadway

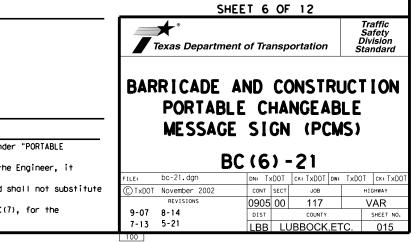
# Phase 2: Possible Component Lists

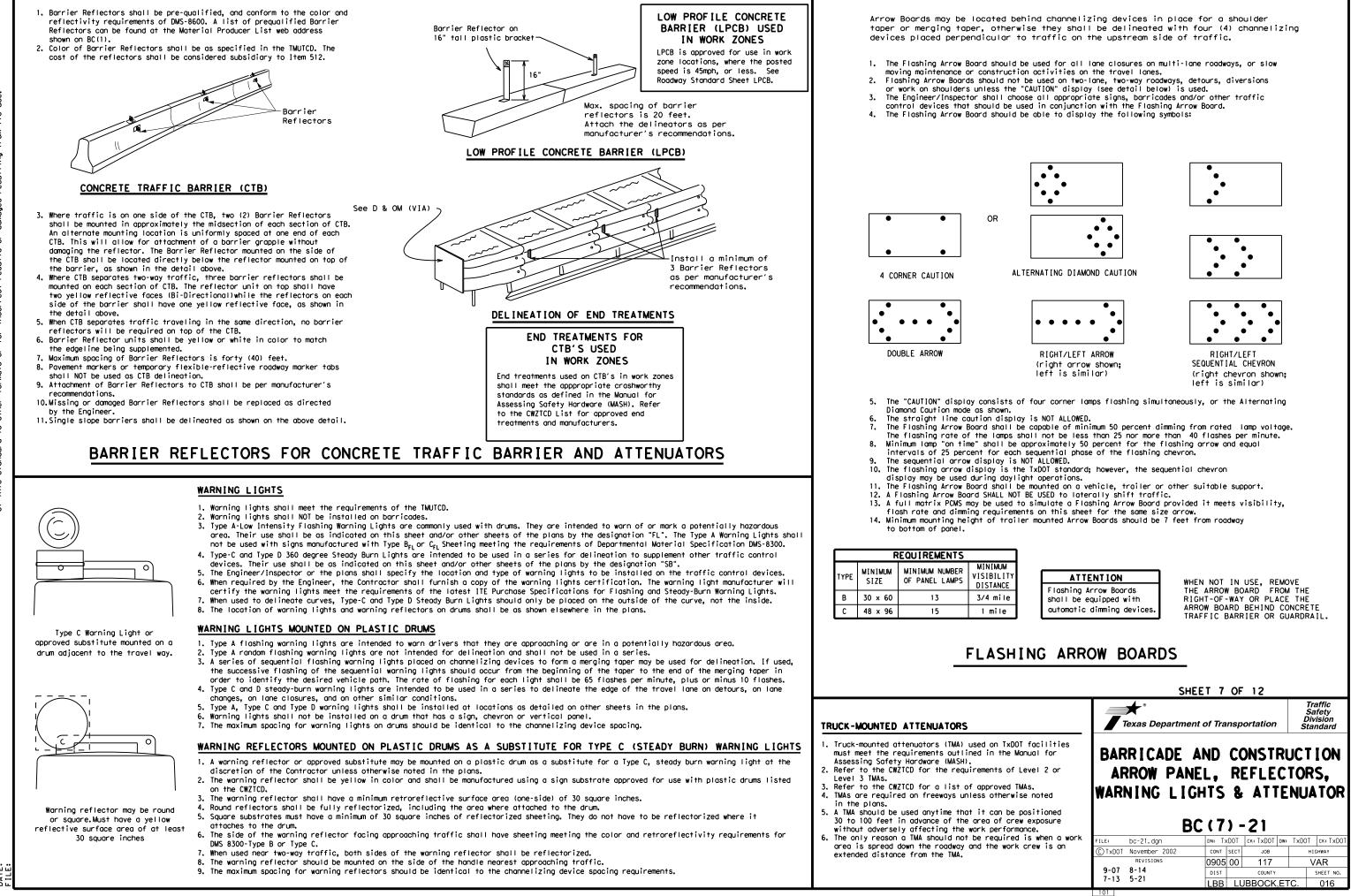


\* \* See Application Guidelines Note 6.

XX AM

EAST, WEST, NORTH and SOUTH (or abbreviations E, W, N and S) can















#### 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

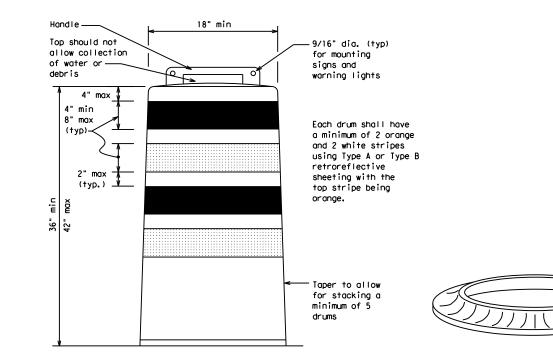
- Pre-gualified plastic drums shall meet the following requirements:
- 1. Plastic drums shall be a two-piece design; the "body" of the drum shall be the top portion and the "base" shall be the bottom.
- 2. The body and base shall lock together in such a manner that the body separates from the base when 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

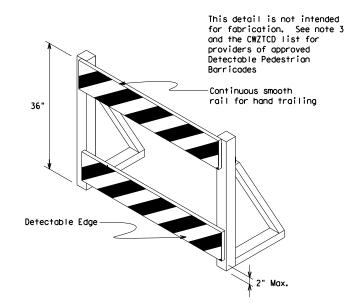
- 1. The stripes used on drums shall be constructed of sheeting meeting the color and retroreflectivity requirements of Departmental Materials Specification DMS-8300, "Sign Face Materials." Type A or Type B reflective sheeting shall be supplied unless otherwise specified in the plans.
- 2. The sheeting 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.
- 3. Recycled truck tire sidewalls may be used for ballast on drums approved for this type of ballast on the CWZTCD list.
- 4. The ballast shall not be heavy objects, water, or any material that would become hazardous to motorists, pedestrians, or workers when the drum is struck by a vehicle.
- 5. When used in regions susceptible to freezing, drums shall have drainage holes in the bottoms so that water will not collect and freeze becoming a hazard when struck by a vehicle.
- 6. Ballast shall not be placed on top of drums.
- 7. Adhesives may be used to secure base of drums to pavement.







#### DETECTABLE PEDESTRIAN BARRICADES

- 1. When existing pedestrian facilities are disrupted, closed, or relocated in a TTC zone, the temporary facilities shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility. Refer to WZ(BTS-2) for Pedestrian Control requirements for Sidewalk Diversions, Sidewalk Detours and Crosswalk Closures. 2. Where pedestrians with visual disabilities normally use the
- closed sidewalk, a Detectable Pedestrian Barricade shall be placed across the full width of the closed sidewalk instead of a Type 3 Barricade.
- 3. Detectable pedestrian barricades similar to the one pictured above, longitudinal channelizing devices, some concrete barriers, and wood or chain link fencing with a continuous detectable edging can satisfactorily delineate a pedestrian
- 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.

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(Maximum Sign Dimension)

Chevron CW1-8, Opposing Traffic Lane

Divider, Driveway sign D70a, Keep Right

R4 series or other signs as approved

by Engineer



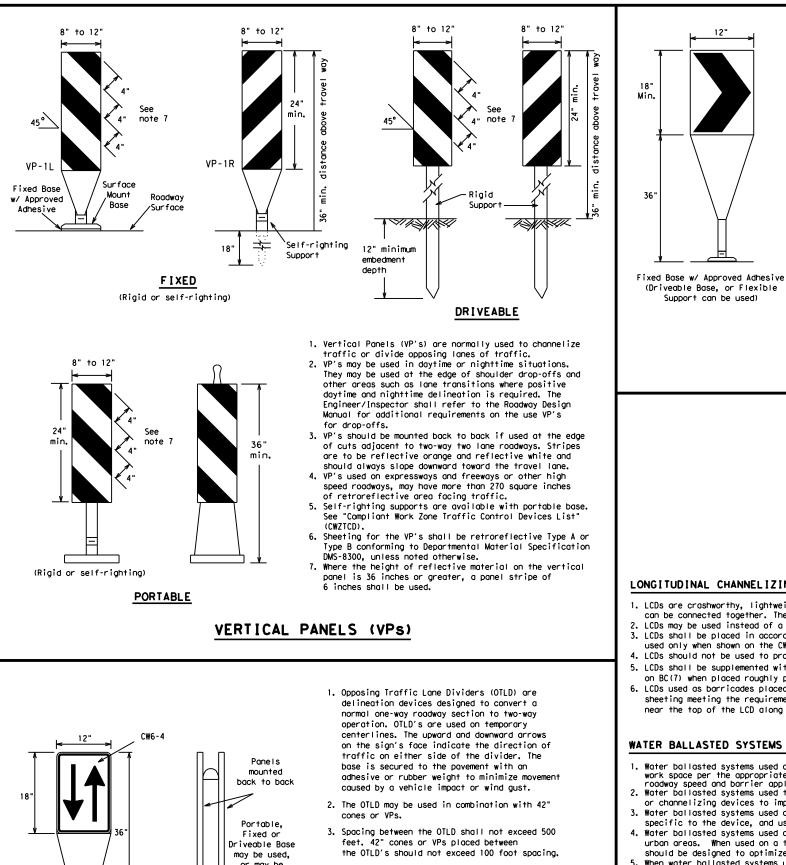
12" x 24" Vertical Panel mount with diagonals sloping down towards travel way

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.

CHANNELIZING DEVICES           BC (8) - 21           FILE:         bc-21.dgn           DN:         TXDOT           COT NOVEMBER 2002         CONT           GOT NOVEMBER 2002         CONT           4-03         8-14           9-07         5-21	SHE	ET 8	OF	12									
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- 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<sub>FL</sub> or Type C<sub>FL</sub> 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

or may be mounted on drums

4. The OTLD shall be orange with a black nonreflective legend. Sheeting for the OTLD shall be retroreflective Type  $B_{FL}$  or Type  $C_{FL}$  conforming to Departmental Material Specification DMS-8300, unless noted otherwise. The legend shall meet the requirements of DMS-8300.

# OPPOSING TRAFFIC LANE DIVIDERS (OTLD)

#### 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	D	Minimur esirab er Lena X X	le	Suggested Maximum Spacing of Channelizing Devices		
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	
30	2	150'	165'	180'	30′	60′	
35	$L = \frac{WS^2}{60}$	205'	225'	245'	35′	70′	
40	60	265' 295' 320		320'	40′	80′	
45		450′	495′	540′	45′	90′	
50		500'	550'	600'	50 <i>'</i>	100′	
55	L=WS	550'	605′	660'	55 <i>'</i>	110′	
60	L - 11 S	600'	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'	

MINIMUM DESIRABLE TAPER LENGTHS SHEET 9 OF 12

SUGGESTED MAXIMUM SPACING OF

CHANNELIZING DEVICES AND

XX Taper lengths have been rounded off.

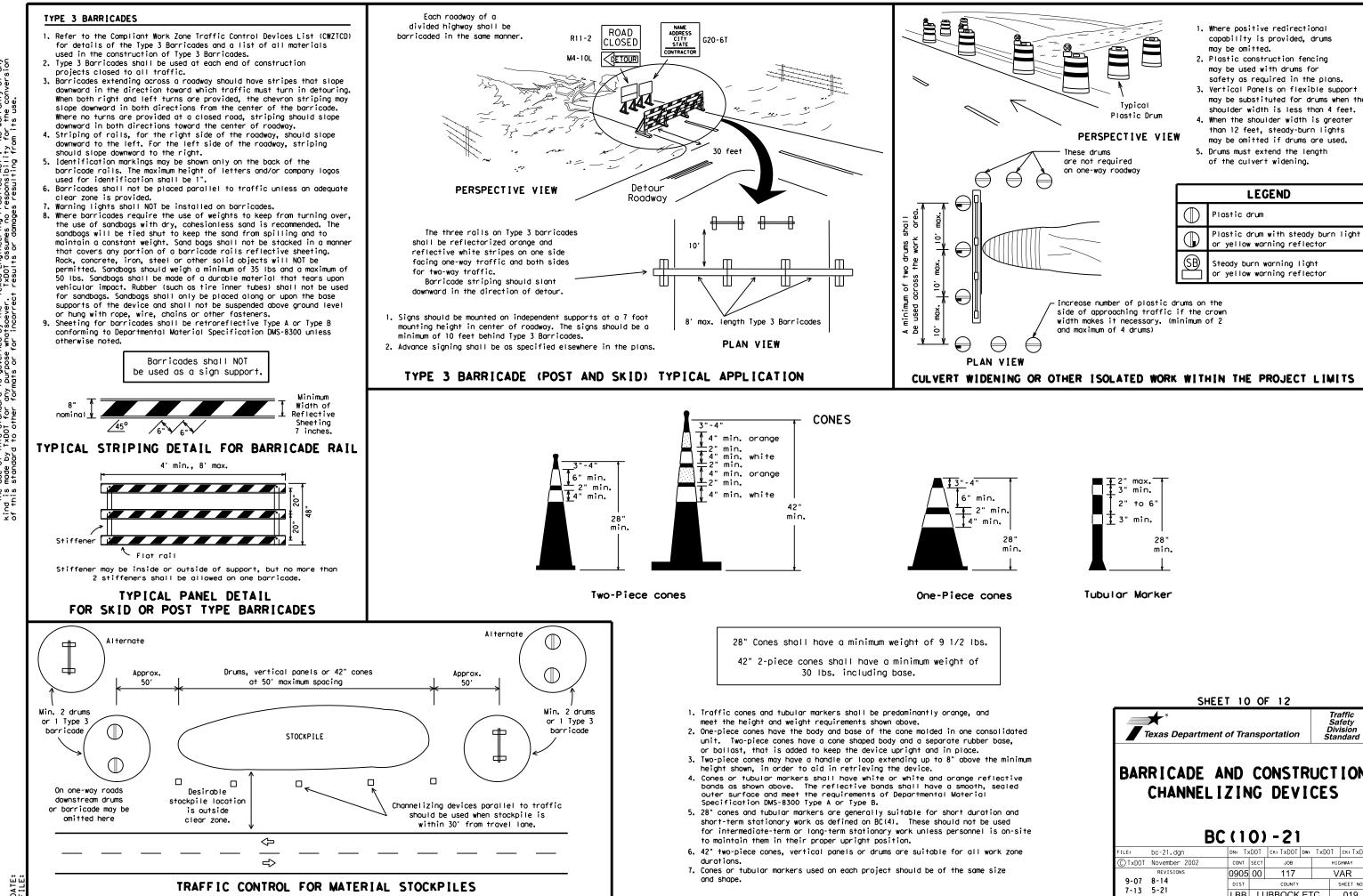
S=Posted Speed (MPH)

L=Length of Taper (FT.) W=Width of Offset (FT.)

**st** Texas Department of Transportation Traffic Safety Division Standard

# BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

		BC	(9	) -	·21				
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# WORK ZONE PAVEMENT MARKINGS

#### GENERAL

- The Contractor shall be responsible for maintaining work zone and existing pavement markings, in accordance with the standard specifications and special provisions, on all roadways open to traffic within the CSJ limits unless otherwise stated in the plans.
- 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

- 1. 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

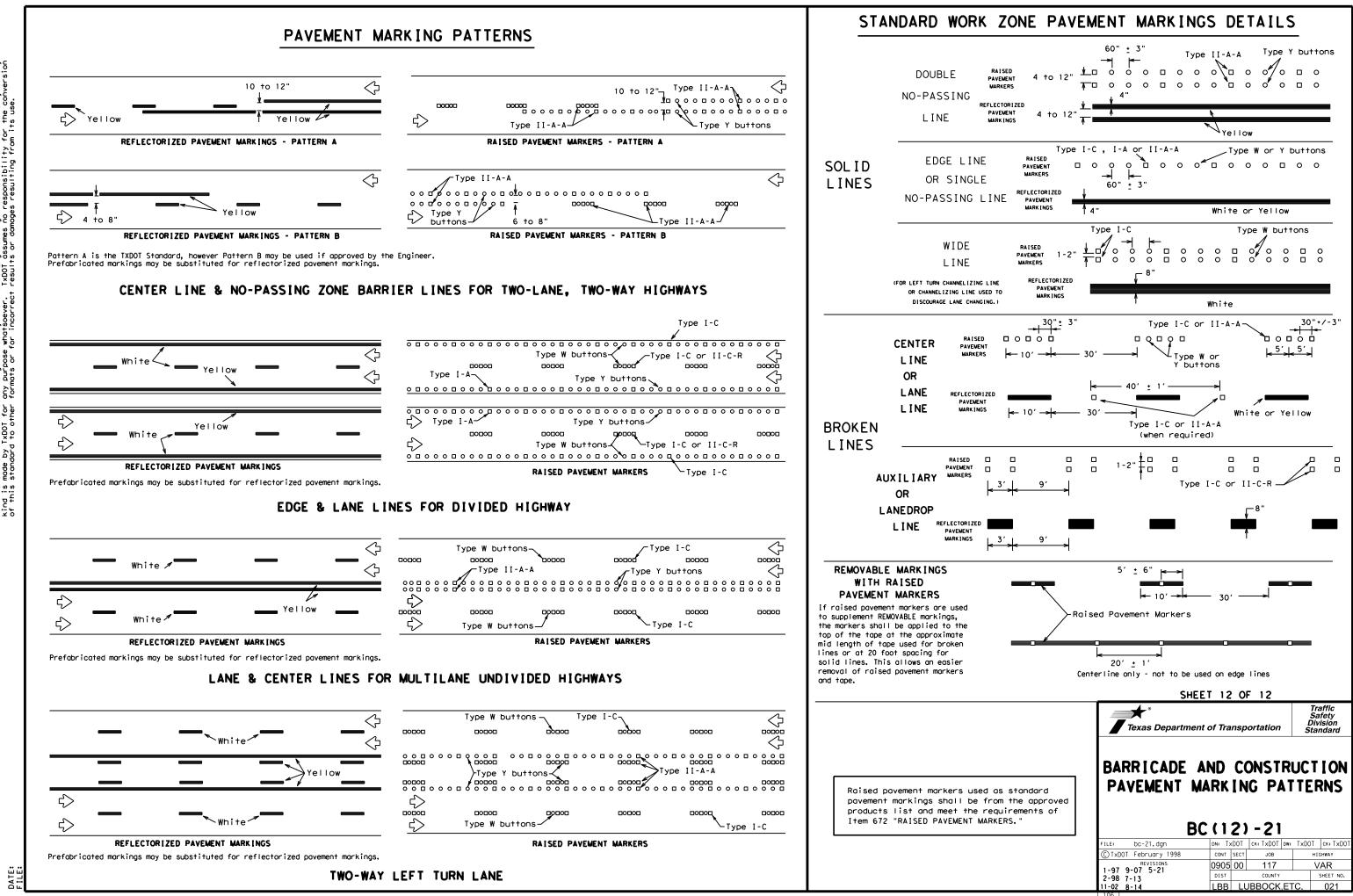
- Raised pavement markers used as guidemarks shall be from the approduct list, and meet the requirements of DMS-4200.
- All temporary construction raised pavement markers provided on project shall be of the same manufacturer.
- Adhesive for guidemarks shall be bituminous material hot applie butyl rubber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

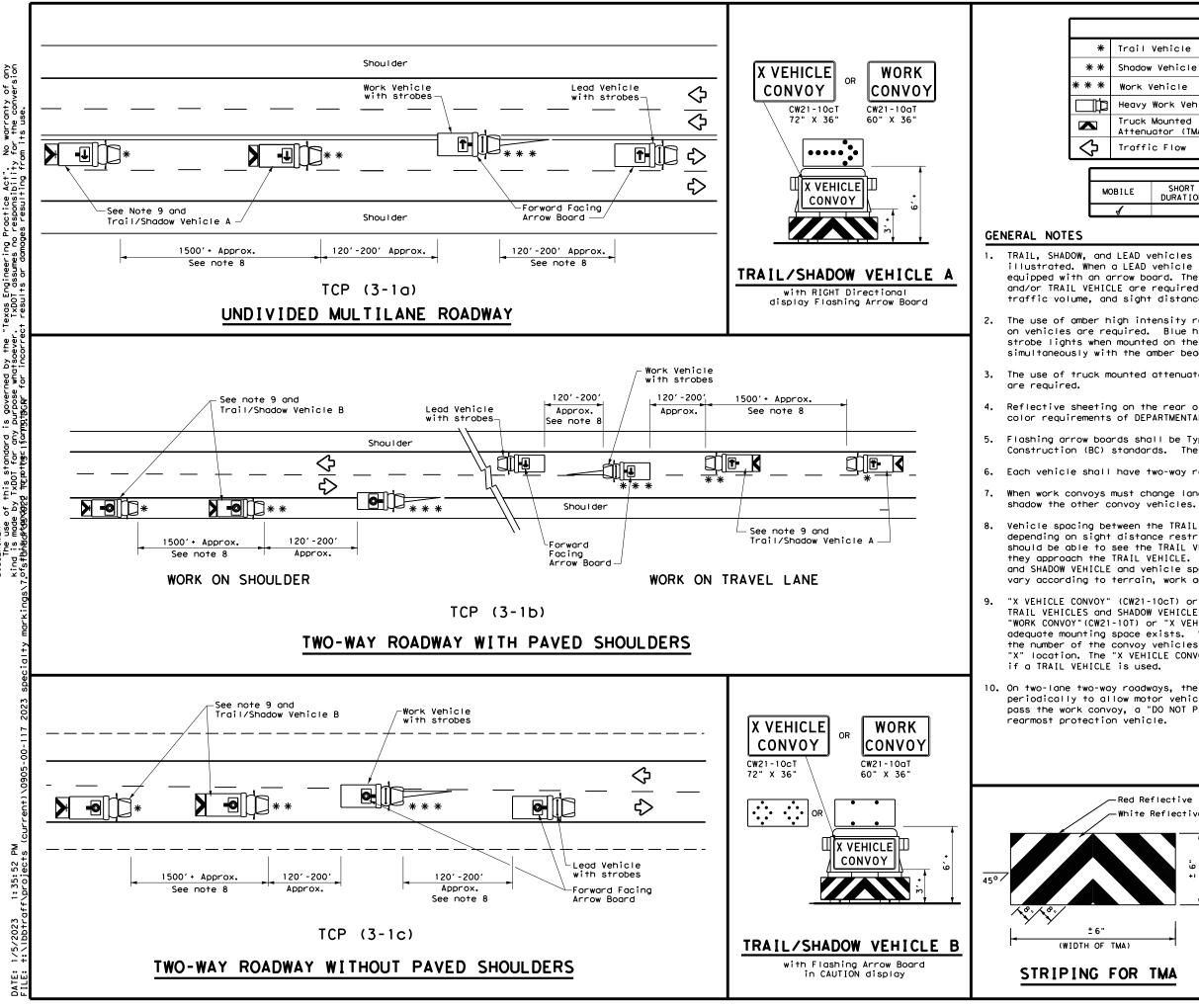
#### Guidemarks shall be designated as:

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

	DEPARTMENTAL MATERIAL SPECIFICA	TIONS
	PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
	TRAFFIC BUTTONS	DMS-4300
IEW	EPOXY AND ADHESIVES	DMS-6100
·	BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
	PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240
	TEMPORARY REMOVABLE, PREFABRICATED PAVEMENT MARKINGS	DMS-8241
∱ e pod	TEMPORARY FLEXIBLE, REFLECTIVE ROADWAY MARKER TABS	DMS-8242
]	A list of prequalified reflective raised pavemen non-reflective traffic buttons, roadway marker pavement markings can be found at the Material F web address shown on BC(1).	tabs and othe
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LEGEND								
Trail Vehicle								
Vehicle			ARROW BOARD DI	ISPLAT				
/ehicle		<b>₽</b>	RIGHT Directio	onal				
Work Vehic	le	<b>F</b>	LEFT Direction	lor				
Mounted lator (TMA)		÷	Double Arrow					
c Flow		•	CAUTION (Alternating Diamond or 4 Corner Flash)					
	116	ICAL U	JAVE					
				LONG TERM STATIONARY				
	Vehicle Vehicle Work Vehic Mounted Mounted Dator (TMA) c Flow	Vehicle Vehicle Work Vehicle Mounted Mounted ofor (TMA) c Flow TYP SHORT SHOR	Vehicle Vehicle /ehicle Work Vehicle Mounted Mounted Mounted Mounted C Flow TYPICAL U SHORT SHORT TERM	Vehicle ARROW BOARD D Vehicle Vehicle Vehicle Work Vehicle Mounted Motor (TMA) c Flow TYPICAL USAGE SHORT SHORT TERM INTERMEDIATE				

TRAIL, SHADOW, and LEAD vehicles shall be equipped with arrow boards as illustrated. When a LEAD vehicle is not used the WORK vehicle must be equipped with an arrow board. The Engineer will determine if the LEAD VEHICLE and/or TRAIL VEHICLE are required based on prevailing roadway conditions, traffic volume, and sight distance restrictions.

2. The use of amber high intensity rotating, flashing, oscillating, or strobe lights on vehicles are required. Blue high intensity rotating, flashing, oscillating or strobe lights when mounted on the driver's side of the vehicle may be operated simultaneously with the amber beacons or strobe lights.

3. The use of truck mounted attenuators (TMA) on the SHADOW VEHICLE and TRAIL VEHICLE

Reflective sheeting on the rear of the TMA shall meet or exceed the reflectivity and color requirements of DEPARTMENTAL MATERIAL SPECIFICATION DMS 8300, Type A.

Flashing arrow boards shall be Type B or Type C as per the Barricade and Construction (BC) standards. The board shall be controlled from inside the vehicle.

Each vehicle shall have two-way radio communication capability.

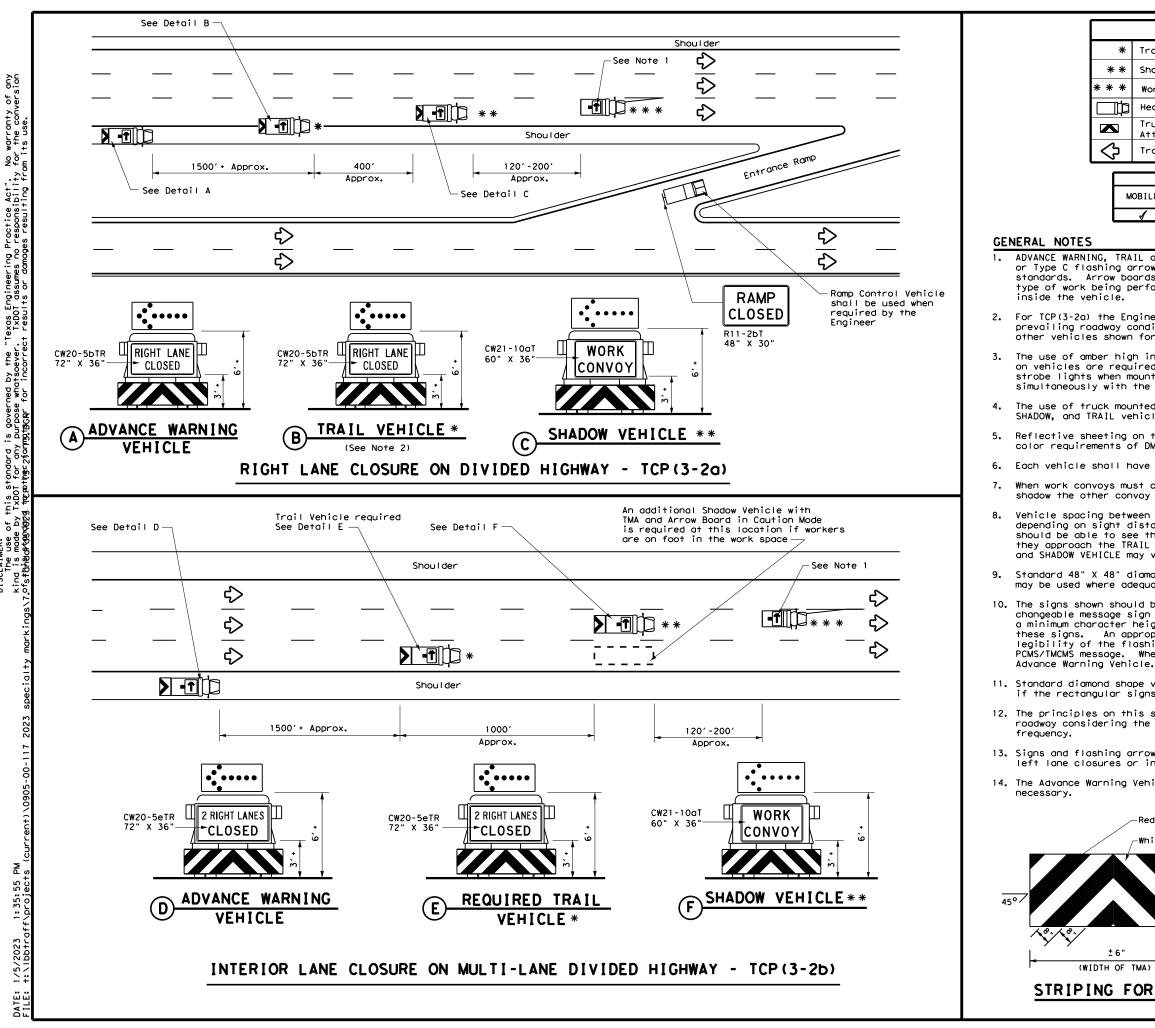
When work convoys must change lanes, the TRAIL VEHICLE should change lanes first to

Vehicle spacing between the TRAIL VEHICLE and the SHADOW VEHICLE will vary depending on sight distance restrictions. Motorists approaching the work convoy should be able to see the TRAIL VEHICLE in time to slow down and/or change lanes as they approach the TRAIL VEHICLE. Vehicle spacing between the WORK VEHICLE and SHADOW VEHICLE and vehicle spacing between WORK VEHICLE and LEAD VEHICLE may vary according to terrain, work activity and other factors.

"X VEHICLE CONVOY" (CW21-10cT) or "WORK CONVOY" (CW21-10aT) signs shall be used on TRAIL VEHICLES and SHADOW VEHICLES as shown. As an option 48" X 48" diamond shaped "WORK CONVOY"(CW21-10T) or "X VEHICLE CONVOY" (CW21-10bT) signs may be used where adequate mounting space exists. When used, the X VEHICLE CONVOY sign shall have the number of the convoy vehicles displayed on the sign in the number designation "X" location. The "X VEHICLE CONVOY" sign shall not be used on the SHADOW VEHICLE

10. On two-lane two-way roadways, the work and protection vehicles should pull over periodically to allow motor vehicle traffic to pass. If motorists are not allowed to pass the work convoy, a "DO NOT PASS" (R4-1) sign should be placed on the back of the

Red Reflective White Reflective	Texas Departme	nt of Transportati		Traffic perations Division Standard				
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LEGEND							
Trail Vehicle		ARROW BOARD DISPLAY					
Shadow Vehicle		ARROW DOARD DISPLAT					
Work Vehicle	<b>†</b> -	RIGHT Directional					
Heavy Work Vehicle	-	LEFT Directional					
Truck Mounted Attenuator (TMA)	₽	Double Arrow					
Traffic Flow	0	CAUTION (Alternating Diamond or 4 Corner Flash)					
TY	PICAL L	JSAGE					

OBILE	SHORT	SHORT TERM	INTERMEDIATE	LONG TERM
	DURATION	STATIONARY	TERM STATIONARY	STATIONARY
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ADVANCE WARNING, TRAIL and SHADOW vehicles shall be equipped with Type B or Type C flashing arrow boards as per the Barricade and Construction (BC) standards. Arrow boards on WORK vehicles will be optional based on the type of work being performed. The arrow boards shall be operated from

2. For TCP(3-2a) the Engineer will determine if the TRAIL VEHICLE is required based on prevailing roadway conditions, traffic volume, and sight distance restrictions. All other vehicles shown for both TCP(3-2a) and TCP(3-2b) are required.

The use of amber high intensity rotating, flashing, oscillating, or strobe lights on vehicles are required. Blue high intensity rotating, flashing, oscillating or strobe lights when mounted on the driver's side of the vehicle may be operated simultaneously with the amber beacons or strobe lights.

The use of truck mounted attenuators (TMA) on the ADVANCE WARNING, SHADOW, and TRAIL vehicles are required.

Reflective sheeting on the rear of the TMA shall meet or exceed the reflectivity and color requirements of DMS 8300, Type A.

Each vehicle shall have two-way radio communication capability.

When work convoys must change lanes, the TRAIL VEHICLE should change lanes first to shadow the other convoy vehicles.

Vehicle spacing between the TRAIL VEHICLE and the SHADOW VEHICLE will vary depending on sight distance restrictions. Motorists approaching the work convoy should be able to see the TRAIL VEHICLE in time to slow down and/or change lanes as they approach the TRAIL VEHICLE. Vehicle spacing between the WORK VEHICLE and SHADOW VEHICLE may vary according to terrain, work activity and other factors.

Standard 48" X 48" diamond shaped warning signs with the same message as those shown may be used where adequate mounting space exists.

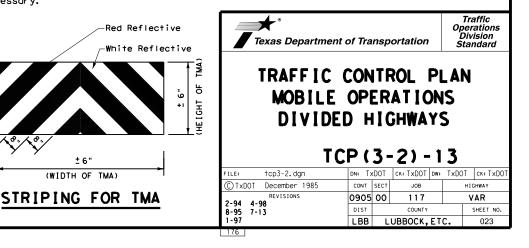
10. The signs shown should be used on the Advance Warning Vehicle. As an option, a portable changeable message sign (PCMS) or a truck mounted changeable message sign (TMCMS) with a minimum character height of 12", and displaying the same legend may be substituted for these signs. An appropriate directional arrow display, simulating the size and legibility of the flashing arrow board, must be used in the second phase of the PCMS/TMCMS message. When this is done, the arrow board will not be required on the

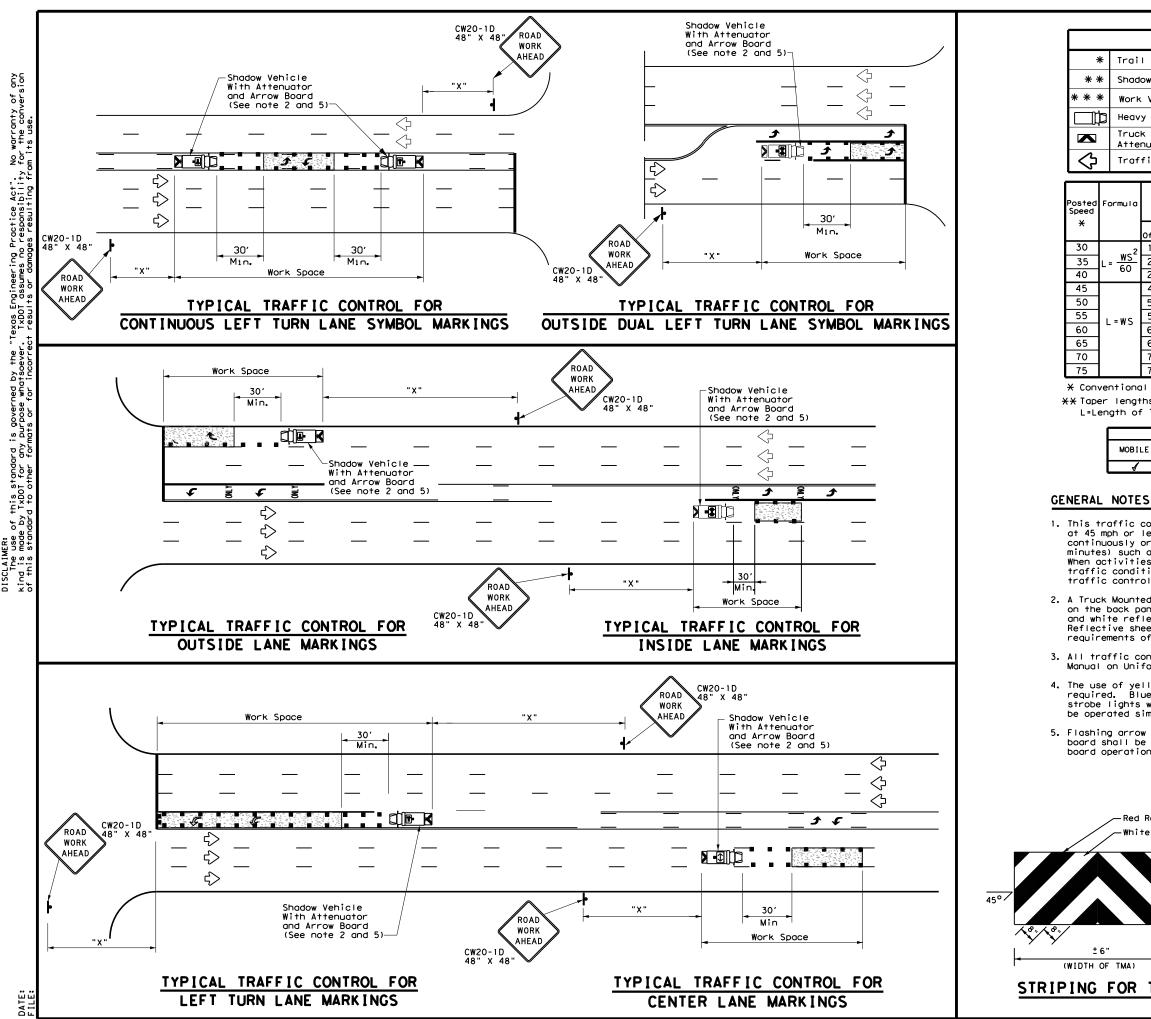
11. Standard diamond shape versions of the CW20-5 series signs may be used as an option if the rectangular signs shown are not available.

12. The principles on this sheet may be used to close lanes from the left side of the roadway considering the number of lanes, shoulder width, sight distance, and ramp

13. Signs and flashing arrow board modes shall be appropriately altered when implementing left lane closures or interior closures which close the left lanes.

14. The Advance Warning Vehicle may straddle the edgeline when shoulder width makes it





DISCLAIMER: The use of this standard kind is made by TxDOT for any of this standard to other for

LEGEND								
Trail Vehicle		ARROW BOARD DISPLAY						
Shadow Vehicle		ARROW BOARD DISPERT						
Work Vehicle	<b>*</b>	RIGHT Directional						
Heavy Work Vehicle	-	LEFT Directional						
Truck Mounted Attenuator (TMA)	₽	Double Arrow						
Traffic Flow	-	Channelizing Devices						

	Minimur Desirab Der Len <del>X X</del>	le	Spacir Channe		Minimum Sign Spacing "x"	Suggested Longitudina। Buffer Space
10' Offse	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"В"
150'	165'	180'	30'	60′	120'	90'
205'	225'	245'	35′	70′	160'	120'
265′	295′	320'	40′	80'	240′	155'
450'	495′	540'	45′	90'	320′	195'
500'	550'	600'	50 <i>'</i>	100'	400′	240'
550'	605′	660'	55 <i>'</i>	110'	500 <i>'</i>	295′
600′	660′	720′	60 <i>'</i>	120'	600′	350'
650'	715'	780′	65′	130'	700'	410′
700'	770′	840'	70'	140'	800'	475′
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									
LE	SHORT DURATION		INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY						
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1. This traffic control plan is for use on conventional roads posted at 45 mph or less and is intended for mobile operations that move continuously or intermittently (stopping up to approximately 15 minutes) such as short-line striping and in-lane rumble strips. When activities are anticipated to take longer amounts of time or traffic conditions warrant, a short duration or short-term stationary traffic control plan should be used.

2. A Truck Mounted Attenuator shall be used on Shadow Vehicle. Striping and white reflective sheeting placed in an inverted "V" design. Reflective sheeting shall meet or exceed the reflectivity and color requirements of departmental material specification DMS-8300, Type A.

3. All traffic control devices shall be in accordance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD), latest edition.

4. The use of yellow rotating beacons or strobe lights on vehicles are required. Blue high intensity rotating, flashing, oscillating or strobe lights when mounted on the drivers side of the vehicle may be operated simultaneously with the amber beacons or strobe lights.

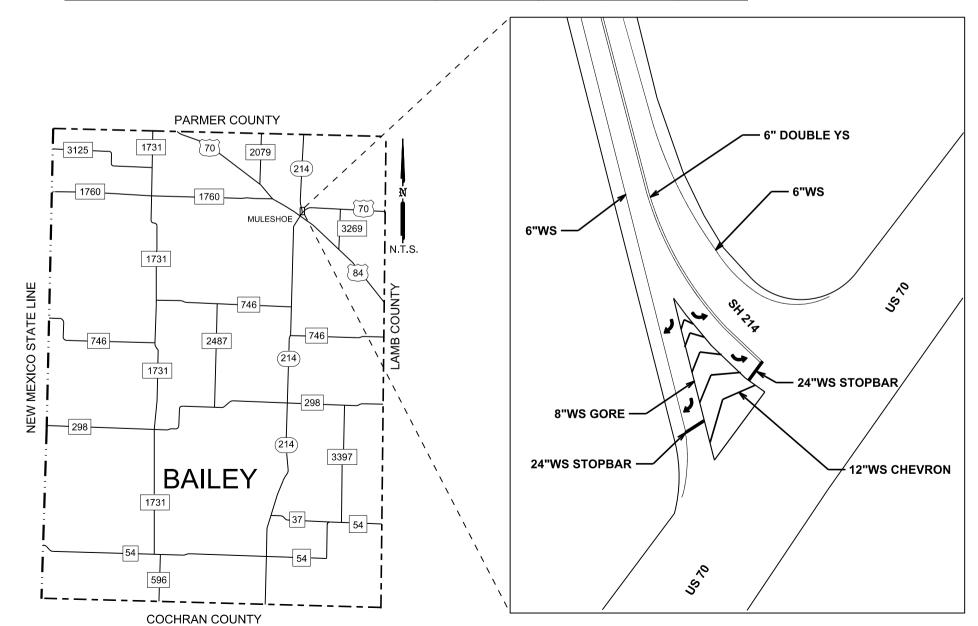
5. Flashing arrow board shall be used on Shadow Vehicle. Flashing arrow board shall be Type B or Type C as per BC Standards. The arrow board operation shall be controlled from inside the truck.

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County 1: Bailey	Hwy	Rdwy	Description	Cont	Sect	BegIn TRM (MI)	End TRM (MI)	6"WS	6"WB	8"WS	12"WS	24"WS	6"YS	NOTES
1 <b>-</b> 1B	US	70	AT SH 214	145	01	250-0.076	250-0.076	360	70	160	120	30	580	CONCRETE SECTION C INTERSECTS WITH US 7 2 LEFT ARROWS, 2 RIG CHEVRON MAR
						TO	TAL	360	70	160	120	30	580	

County 1: Bailey	Hwy	Rdwy	Description	Cont	Sect	BegIn TRM (MI)	End TRM (MI)	Arrow (Left)	Arrow (Right)	NOTES
1-1B	US	70	AT SH 214	145	01	250-0.076	250-0.076	2	2	CONCRETE SECTION ON SH 214 THAT INTERSECTS WITH US 70 (2 STOPBARS, 2 LEFT ARROWS, 2 RIGHT ARROWS, CHEVRON MARKINGS)
						то	TAL	2	2	

County 1: Bailey	Hwy	Rdwy	Description	Cont	Sect	Begin TRM (MI)	End TRM (MI)	4" ELIM	8" ELIM	24" EL <b>IM</b>	NOTES
1-1B	US	70	AT SH 214	145	01	250-0.076	250-0.076	1,010	160	30	CONCRETE SECTION ON SH 214 THAT INTERSECTS WITH US 70 (2 STOPBARS, 2 LEFT ARROWS, 2 RIGHT ARROWS, CHEVRON MARKINGS)
							TAL	1,010	160	30	



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ON ON SH 214 THAT US 70 (2 STOPBARS, 2 RIGHT ARROWS, MARKINGS)



Jeremy T. Dearing, P.E. 01/05/2023

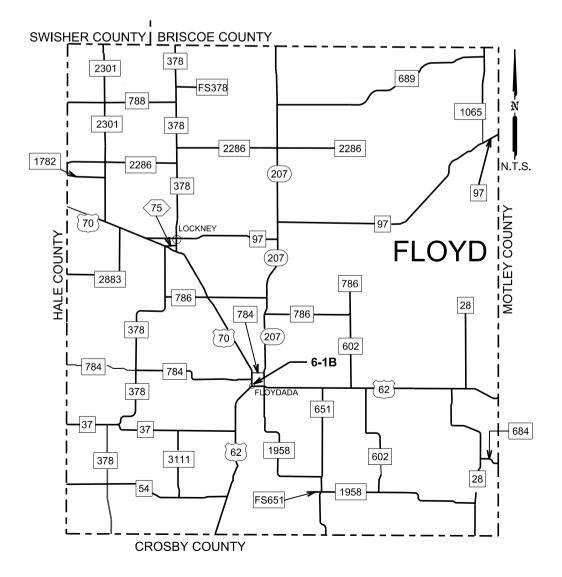
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County 6: Floyd	Hwy	Rdwy	Description	Cont	Sect BegIn TRM (MI)	End TRM (MI)	6"WS	6" WB CNTST	8"W(LNDP)	8"WS	12"WS	24"WS	36" W(YLD TRI)	6"YB	6"YS	12"YS	NOTES
6-1B	US	62	AT US 70 INTERSECTION IN FLOYDADA	453	01 382+0.259 3	382+0.259	990	350	57	810	220	72	14	80	2,060	240	SEE LAYOUT SHEET 027, 4- SHIELDS (US 70), 4 WORDS (2-WEST, 2-EAST)
					ΤΟΤΑ	L	990	350	57	810	220	72	14	80	2,060	240	

County 6 Floyd	i: Hwy	Rdw	/ Description	Cont	Sect	Begin TRM (MI)	End TRM (MI)	Multishleid (US)	Word	NOTES
6-1B	US	62	AT US 70 INTERSECTION IN FLOYDADA	453	01	382+0.259	382+0.259	4	4	SEE SHEET 027, 4- SHIELDS (US 70), 4 WORDS (2-WEST, 2-EAST)
						то	TAL	4	4	

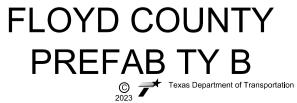
County 6: Floyd	Hwy	Rdwy	Description	Cont	Sect	Begin TRM (MI)	End TRM (MI)	4" ELIM	8" ELIM	12" ELIM	24" ELIM	NOTES
6-1B	US	62	AT US 70 INTERSECTION IN FLOYDADA	453	01	382+0.259	382+0.259	3,670	810	860	72	SEE SHEET 027, 4- SHIELDS (US 70), 4 WORDS (2-WEST, 2-EAST)
						то	TAL	3,670	810	860	72	



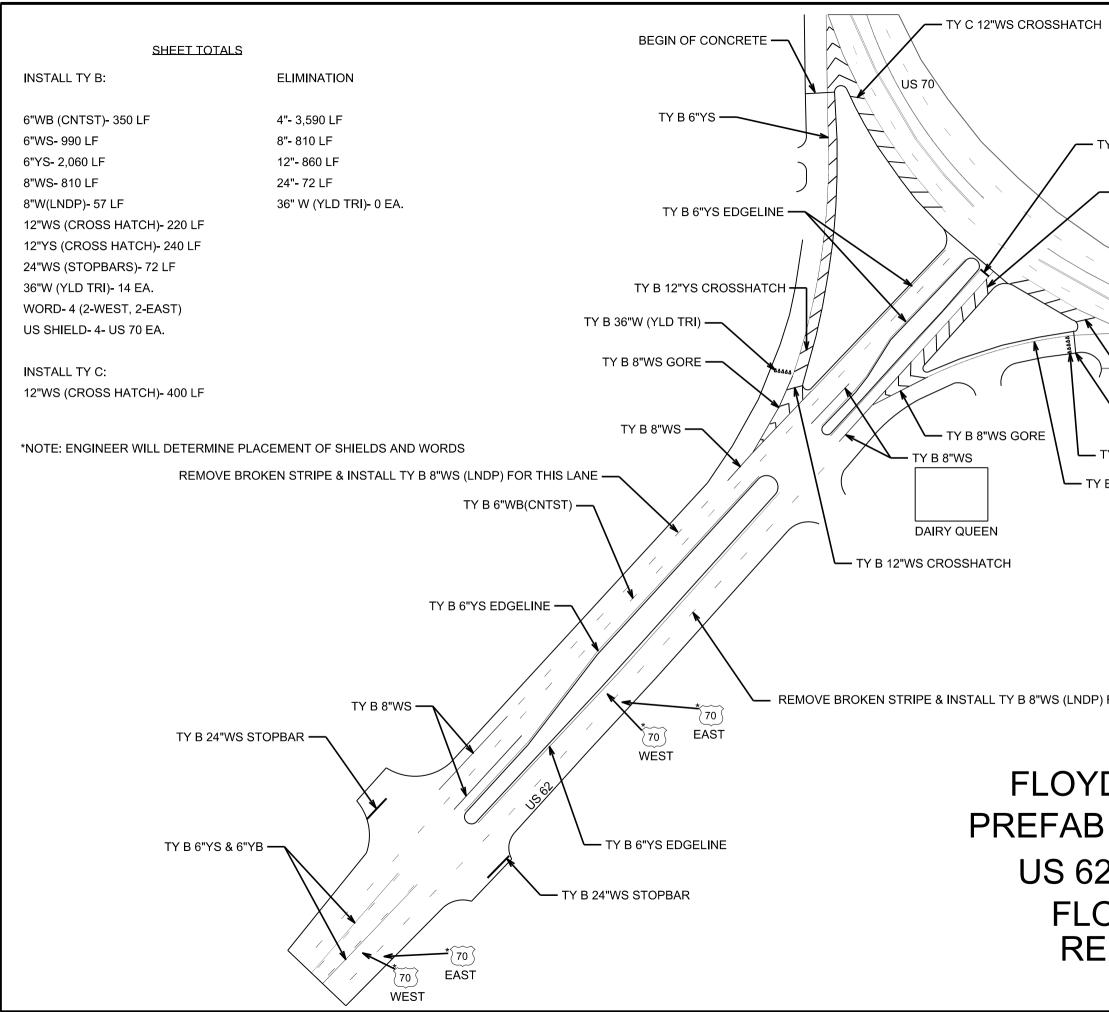


Jermy T. Dearing, P.E.

01/05/2023



FED RD DIV NO					SHEET NO.						
6					026						
STATE		DIST.		County							
TEXA	s	LBB	LUBE	BOCK,ET	C.						
CONT		SECT.	JOB	HIGHWA	Y NO.						
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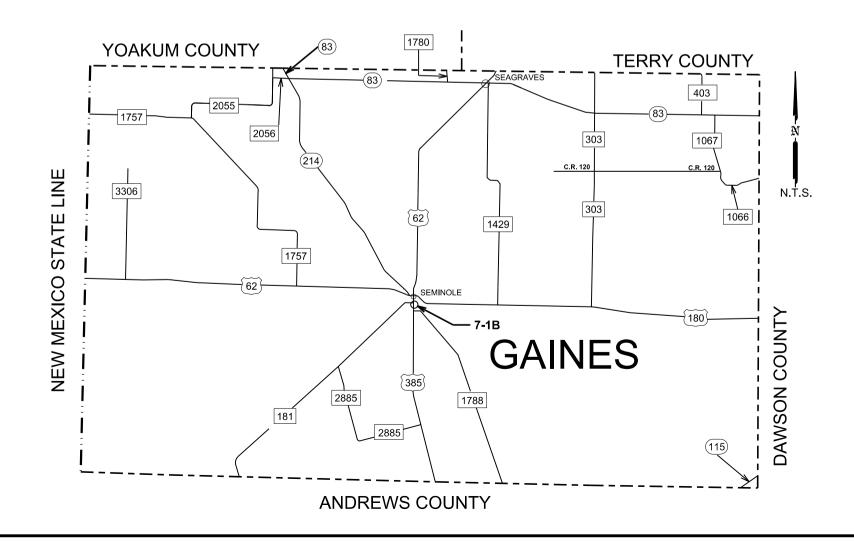


- TY B 24"WS STOPBAR TY B 12"WS CROSSHATCH	N N.T.S
US 70	
TY C 12"WS CROSSHATCH	
– TY B 36"W (YLD TRI)	
Y B 6"YS EDGELINE	
P) FOR THIS LANE	
į	*
D COUNTY	JERENY T. DEARING 98218 /CENSE
B TY B & TY C	Nisional Enter
	Jlumy T. Deauing, P.E. 01/05/2023
2 AT US 70	
OYDADA	FED.RD. SHEET DIV.NO. NO. 6 027
EF# 6-1B	STATE         DIST.         County           TEXAS         LBB         LUBBOCK,ETC.           CONT.         SECT.         JOB         HIGHWAY NO.
O Texas Department of Transportation	0905 00 117 VAR FILE NAME DATE 2023 SPECIALTY 1/4/2023

County 7: Gaines	Hwy	Rdwy	Description	Cont	Sect	Begin TRM (MI)	End TRM (MI)	6"WB	8"WS	24"WS	6"YS	
7-1B	US	385	AT FM 181	228	03	292-0.28	292-0.28	100	200	300	400	IN SE
						то	ΓAL	100	200	300	400	

County 7: Gaines	Hwy	Rdwy	Description	Cont	Sect	Begin TRM (MI)	End TRM (MI)	Arrow (Left)	NOTES
7-1B	US	385	AT FM 181	228	03	292-0.28	292-0.28	4	IN SEMINOLE (SEE SHEET 029)
						тот	ΓAL	4	

County 7: Gaines	Hwy	Rdwy	Description	Cont	Sect	Begin TRM (MI)	End TRM (MI)	4" ELIM	8" ELIM	12" ELIM	24" ELIM	Arrow (L) ELIM	NOTES
7-1B	US	385	AT FM 181	228	03	292-0.28	292-0.28	500	200	256	144	4	IN SEMINOLE (SEE SHEET 029)
						тот	TOTAL		200	256	144	4	



#### NOTES

SEMINOLE (SEE SHEET 029)



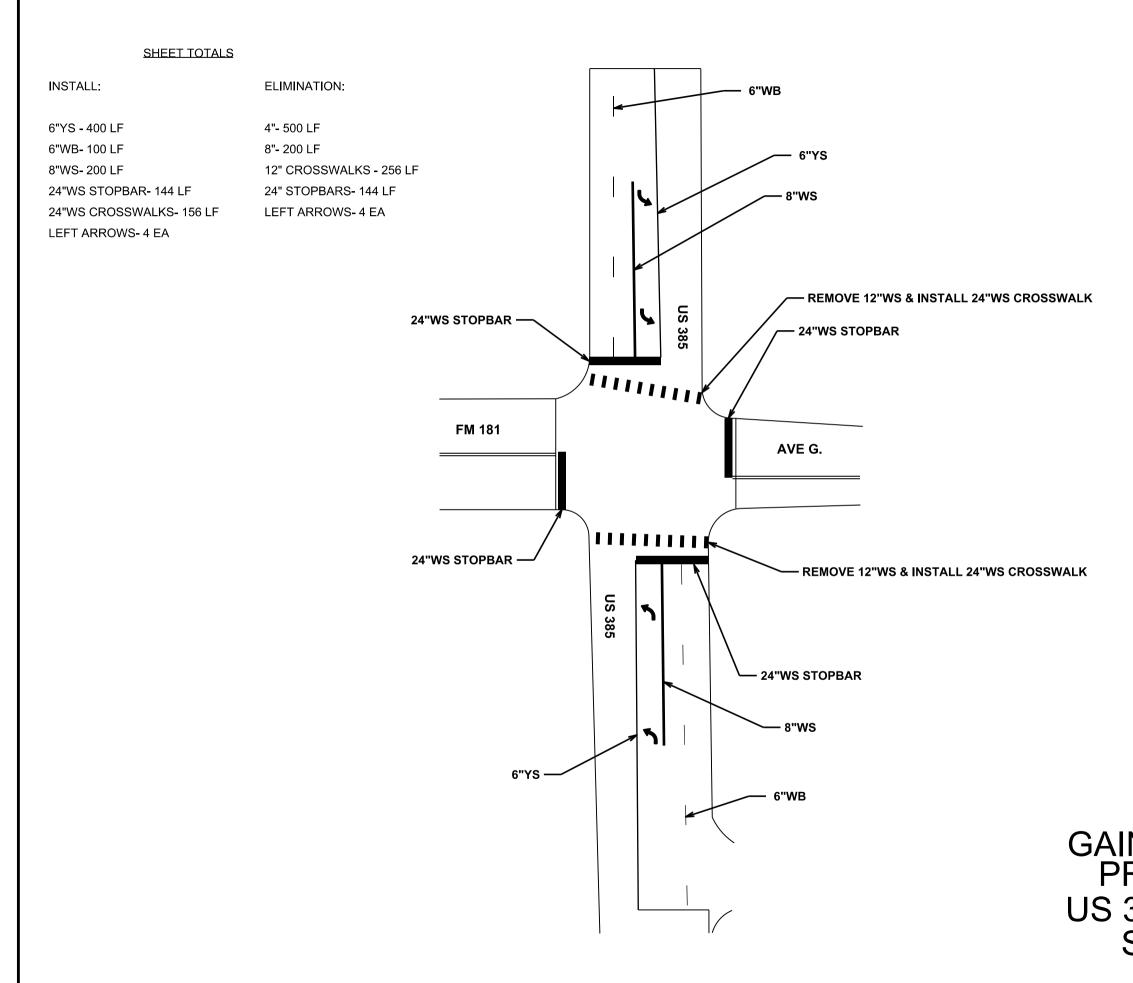
Jerenny T. Dearing, P.E.

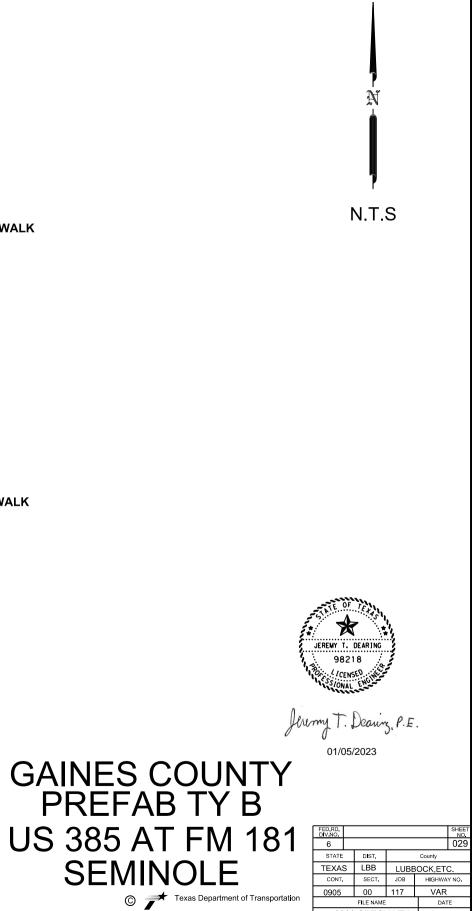
01/05/2023



2023

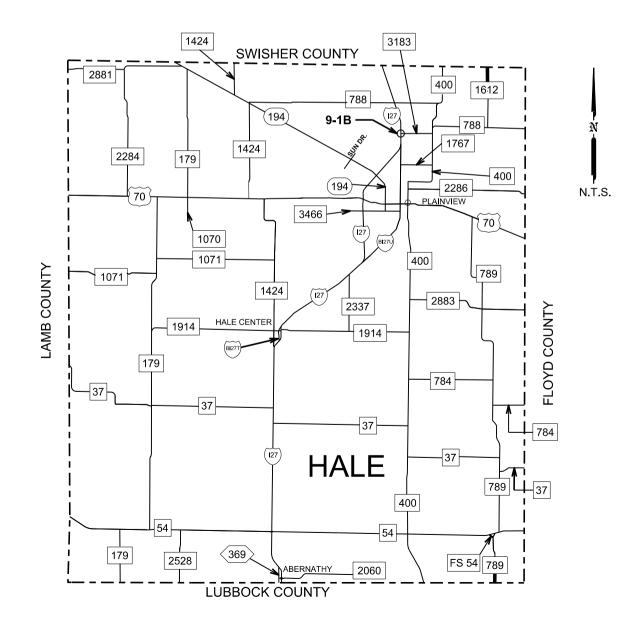
FED RD DIV NO					SHEET NO.						
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2023 SPECIALTY 1/4/2023

County 9: Hale	Hwy	Rdwy	Description	Cont	Sect	Begin TRM (MI)	End TRM (MI)	6"WS	24"WS	6"YS	
9-1B	IH	27	AT FM 3183	67	04	54+0.16	54+0.16	820	60	840	SEE SHEET 062 (I
						тот	ſAL	820	60	840	



#### NOTES

2 (NO EXISTING MARKINGS)

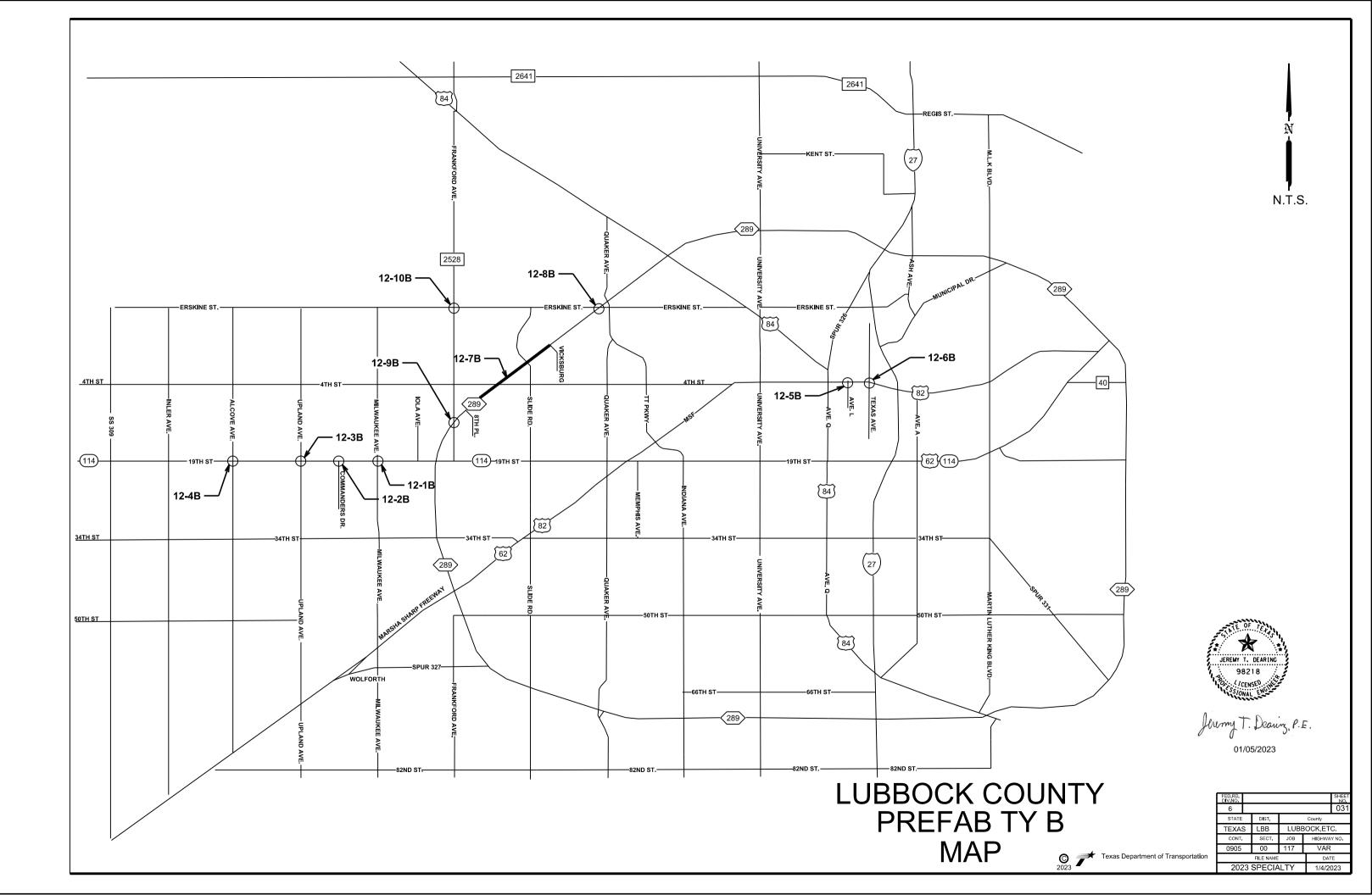


Jeremy T. Dearing, P.E.

01/05/2023



FED.RD. DIV.NO.		SHEET NO.								
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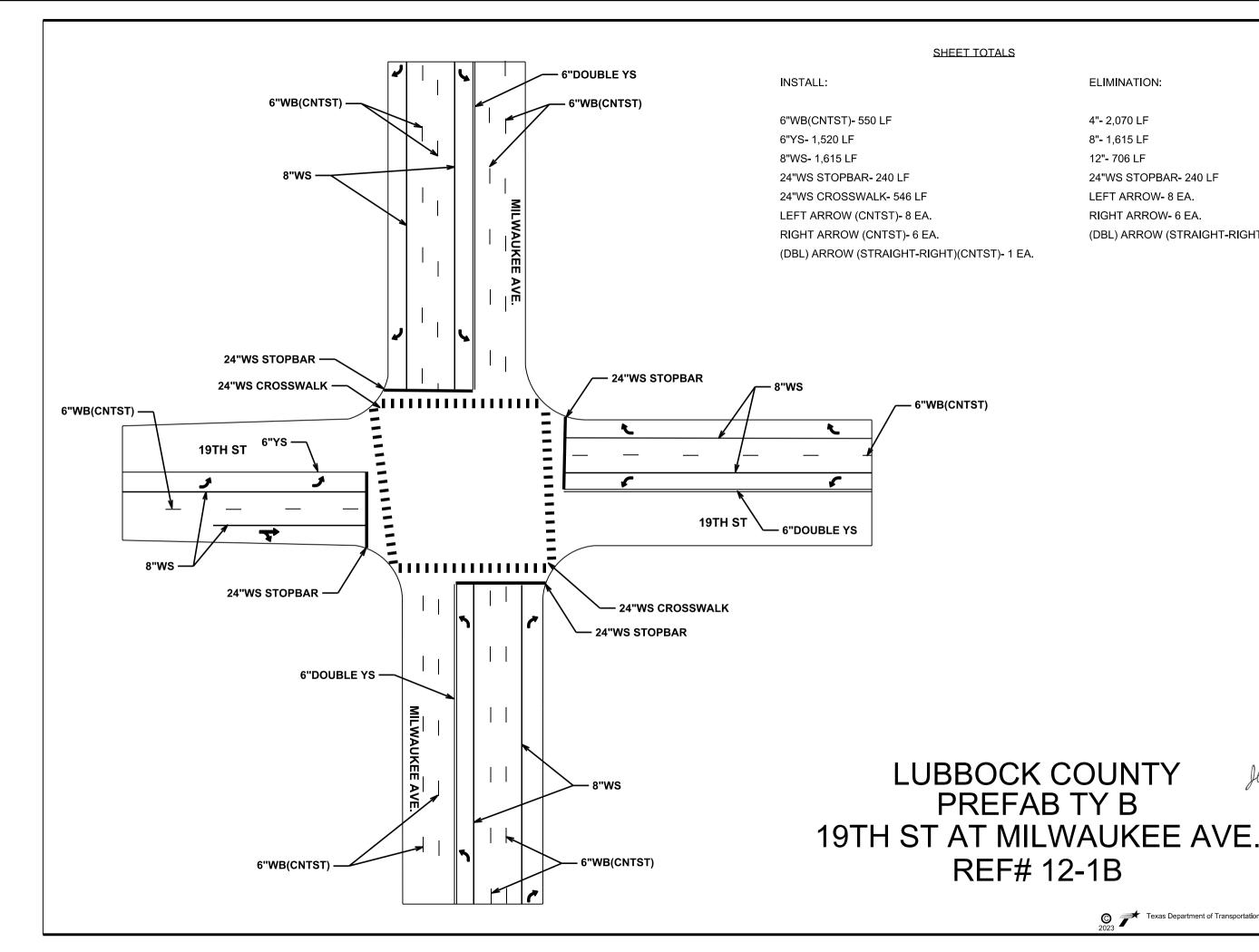
						1	1	1	1	1	1		1	1							
County 12: Lubbock	Hwy	Rdwy	Description	Cont	Sect	Begin TRM (MI)	End TRM (MI)	6"WS	6" WB CNTST	8" W(DOT)	8"W(LNDP)	8"WS	12"WS	24"WS	36" W(YLD TRI)	6"YB	6"YS	12"YS		NOTES	
12 <b>-</b> 1B	SH	114	19TH ST AT MILWAUKEE AVE.	130	05	294-0.829	294-0.829	0	550	0	0	1,615	0	786	0	0	1,520	0	SE	E SHEET 033	
12-2B	SH	114	19TH ST AT COMMANDERS PALACE	130	05	292+0.776	292+0.776	0	150	0	0	555	0	180	0	0	500	0	SE	E SHEET 034	
12-3B	SH	114	19TH ST AT UPLAND AVE.	130	05	292+0.188	292+0.188	0	120	0	0	720	0	282	0	0	760	0	SE	E SHEET 035	
12-4B	SH	114	19TH ST AT ALCOVE AVE.	130	05	292-0.81	292-0.81	0	130	0	0	800	0	0	0	0	710	0	SE	E SHEET 036	
12-5B	US	82	MSF AT AVE L	53	01	310+0.266	310+0.266	0	330	30	0	255	56	304	0	0	0	0	SE	E SHEET 037	
12-6B	US	82	MSF AT TEXAS AVE.	53	01	310+0.529	310+0.529	0	500	112	30	815	0	368	0	0	740	0	SE	E SHEET 038	
12 <b>-</b> 7B	WEST SL	289 M.L.	8TH PLACE TO VICKSBURG	783	02	291+0.293	292+0.093	0	0	0	0	0	0	0	0	0	0	0			
12-8B	NORT H SL		ERSKINE BRIDGE	783	02	293-0.046	293-0.046	0	0	0	0	0	0	0	0	0	0	0		ROWS) ON EASTB WORD: "ONLY")	OUND
12-9B	WEST	289	AT FRANKFORD AVE.	783	02	291-0.144	291-0.144	520	400	50	0	1,482	0	554	20	0	1,200	150		E SHEET 039	
12-10B	FM	2528	FRANKFORD AVE AT ERSKINE AVE.	2501	01	212+0.124	212+0.124	180	380	0	0	855	146	626	0	150	1,580	0	SE	E SHEET 040	
						то		700	2,560	192	30	7,097	202	3,100	20	150	7,010	150			
						1		1	1	<u> </u>	1	<u> </u>	1	1				<u> </u>			
County 12: Lubbock	Hwy	Rdwy	Description	Cont	Sect	Begin TRM (MI)	End TRM (MI)	Word	Arrow (Left)	Arrow (Right)	Arrow (Straight)	Arrow (DBL) (Straight-Right)	Arrow (DBL) (Straight-Left)	Arrow (Uturn)	(Y) (MED NOSE)	Arrow (LNDP)		NOTES			
12-1B	SH	114	19TH ST AT MILWAUKEE AVE.	130	05	294-0.829	294-0.829	0	8	6	0	(Straight-Right)	0	0	0	0	SEE	E SHEET 033			
12-2B	SH	114	19TH ST AT COMMANDERS PALACE	130			292+0.776	0	6	3	0	0	0	0	0	0		E SHEET 034			
12-3B	SH	114	19TH ST AT UPLAND AVE.	130	05	292+0.188	292+0.188	0	6	3	0	0	0	0	0	0	SEE	E SHEET 035			
12-4B	SH	114	19TH ST AT ALCOVE AVE.	130		292-0.81	292-0.81	0	6	6	0	0	0	0	0	0	SEE	E SHEET 036			
12-5B	US	82	MSF AT AVE L	53	01	310+0.266		0	2	1	2	2	0	0	3	0		E SHEET 037			
12-6B	US	82	MSF AT TEXAS AVE.	53	01	310+0.529		0	8	4	2	3	3	0	2	0		E SHEET 038			
12-7B	WEST	289	8TH PLACE TO VICSBURGE	783	02	291+0.293		0	0	0	0	0	0	0	0	3					
12-8B	SL NORT	M.L. 289	ERSKINE BRIDGE	783	02	293-0.046	293-0.046	3	0	0	0	0	0	0	0	3	(WORDS & ARR	ROWS) ON EASTBO	DUND		
12-9B	H SL WEST	M.L. 289	AT FRANKFORD AVE.	783	02	291-0.144		0	6	2	2	2	4	4	0	0	,	WORD: "ONLY") E SHEET 039			
12-10B	SL FM	2528	FRANKFORD AVE AT ERSKINE AVE.	2501			212+0.124	0	6	5	0	0	0	0	0	0		E SHEET 040			
								3	48	30	6	8	7	4	5	6					
								•			J. J	Ŭ		-		•					
County 12: Lubbock	Hwy	Rdwy	Description	Cont	Sect	BegIn TRM (MI)	End TRM (MI)	4" ELIM	8" ELIM	12" EL <b>I</b> M	24" ELIM	Arrow (L) EL <b>I</b> M	Arrow (R) ELIM	Arrow (S) EL <b>I</b> M	Arrow (DBL) (Straight-Right) ELIM	Arrow (DBL) (Straight-Left) ELIM	Word ELIM	(Y) (MED NOSE) ELIM	Arrow (Uturn) ELIM	ARROW(LNDP) ELIM	NOTES
12-1B	SH	114	19TH ST AT MILWAUKEE AVE.	130	05	294-0.829	294-0.829	2,070	1,615	706	0	8	6	0	1	0	0	0	0	0	SEE SHEET 033
12-2B	SH	114	19TH ST AT COMMANDERS PALACE	130	05	292+0.776	292+0.776	650	555	144	90	6	3	0	0	0	0	0	0	0	SEE SHEET 034
12-3B	SH	114	19TH ST AT UPLAND AVE.	130	05	292+0.188	292+0.188	880	720	320	90	6	3	0	0	0	0	0	0	0	SEE SHEET 035
12-4B	SH	114	19TH ST AT ALCOVE AVE.	130	05	292-0.81	292-0.81	840	800	0	0	6	6	0	0	0	0	0	0	0	SEE SHEET 036
12-5B	US	82	MSF AT AVE L	53	01	310+0.266	310+0.266	330	255	366	100	2	1	2	2	0	0	3	0	0	SEE SHEET 037
12-6B	US	82	MSF AT TEXAS AVE.	53	01	310+0.529	310+0.529	1,240	957	1,072	368	8	0	2	3	3	0	2	0	3	SEE SHEET 038
12 <b>-</b> 7B	WEST SL	289 M.L.	8TH PLACE TO VICSBURGE	783	02	291+0.293	292+0.093	0	0	0	0	0	0	0	0	0	0	0	0	0	
12-8B	NORT H SL		ERSKINE BRIDGE	783	02	293-0.046	293-0.046	0	0	0	0	0	3	0	0	0	3	0	0	0	(WORDS & ARROWS) ON EA LANE (WORD: "ONLY
12 <b>-</b> 9B	WEST		AT FRANKFORD AVE.	783	02	291-0.144	291-0.144	2,120	1,532	440	278	6	2	0	2	4	0	0	4	0	SEE SHEET 039
	FM	2528	FRANKFORD AVE AT ERSKINE AVE.	2501	01	212+0.124	212+0.124	2,190	1,008	146	626	4	5	2	0	0	0	0	0	0	SEE SHEET 040
12-10B				1	1	1	1						1		1					1	1



# LUBBOCK COUNTY PREFAB TY B 01/05/2023 INSTALL & **ELIMINATION** © Texas Department of Transportation

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	FED.RD. DIV.NO		NO.	SHEE NO.				
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	0905		00	117	VAR			
ion			DATE					
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ELIMINATION:

O 7

Texas Department of Transportation

4"- 2,070 LF 8"- 1,615 LF 12"- 706 LF 24"WS STOPBAR- 240 LF LEFT ARROW- 8 EA. RIGHT ARROW- 6 EA. (DBL) ARROW (STRAIGHT-RIGHT)- 1 EA.



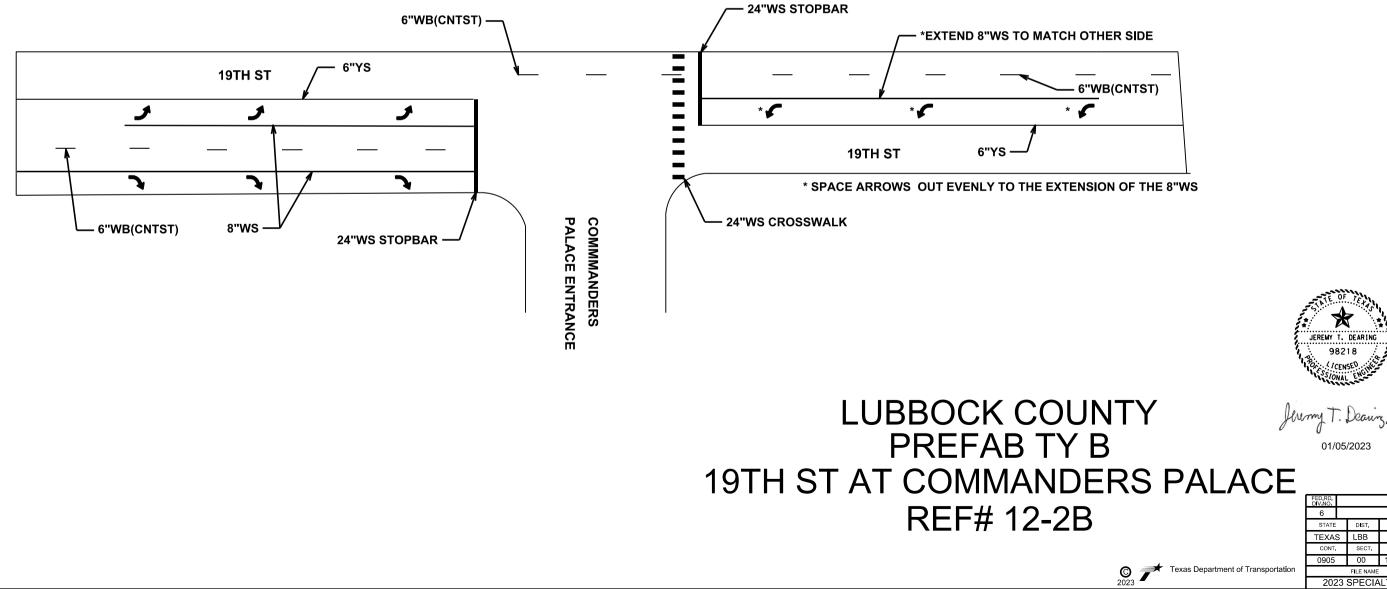
Jerenny T. Dearing, P.E.

01/05/2023

FED RD. DIV NO					SHEET NO.				
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TEXAS	S	LBB	LUBE	BOCK,ET	C.				
CONT.		SECT.	JOB	HIGHWA	Y NO.				
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202	23 :	1/4/2	023						

N.T.S.

INSTALL:	ELIMINA
6"WB(CNTST)- 150 LF	4"- 650
6"YS- 500 LF	8"- 555 L
8"WS- 555 LF	12"- 144
24"WS STOPBAR- 90 LF	24"WS S
24"WS CROSSWALK- 90 LF	LEFT AR
LEFT ARROW (CNTST)- 6 EA.	RIGHT A
RIGHT ARROW (CNTST)- 3 EA.	



ATION:

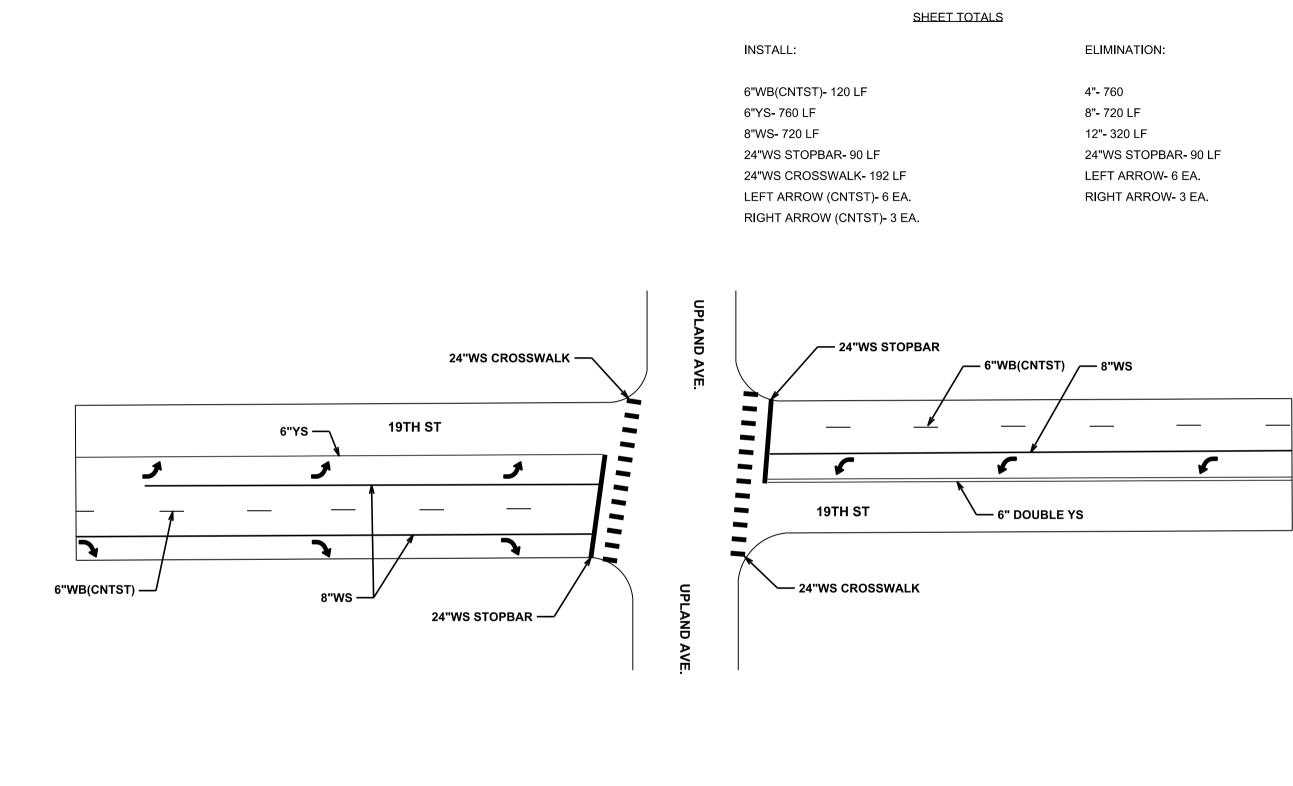
LF I LF STOPBAR- 90 LF RROW- 6 EA. ARROW- 3 EA.

A N.T.S.

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Jerenny T. Dearing, P.E.

FED.RD. DIV.NO										
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CONT.		SECT.	JOB	HIGHWA	Y NO.					
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		DAT	E							
202	23	1/4/20	023							



LUBBOCK COUNTY PREFAB TY B 19TH ST AT UPLAND AVE. REF# 12-3B

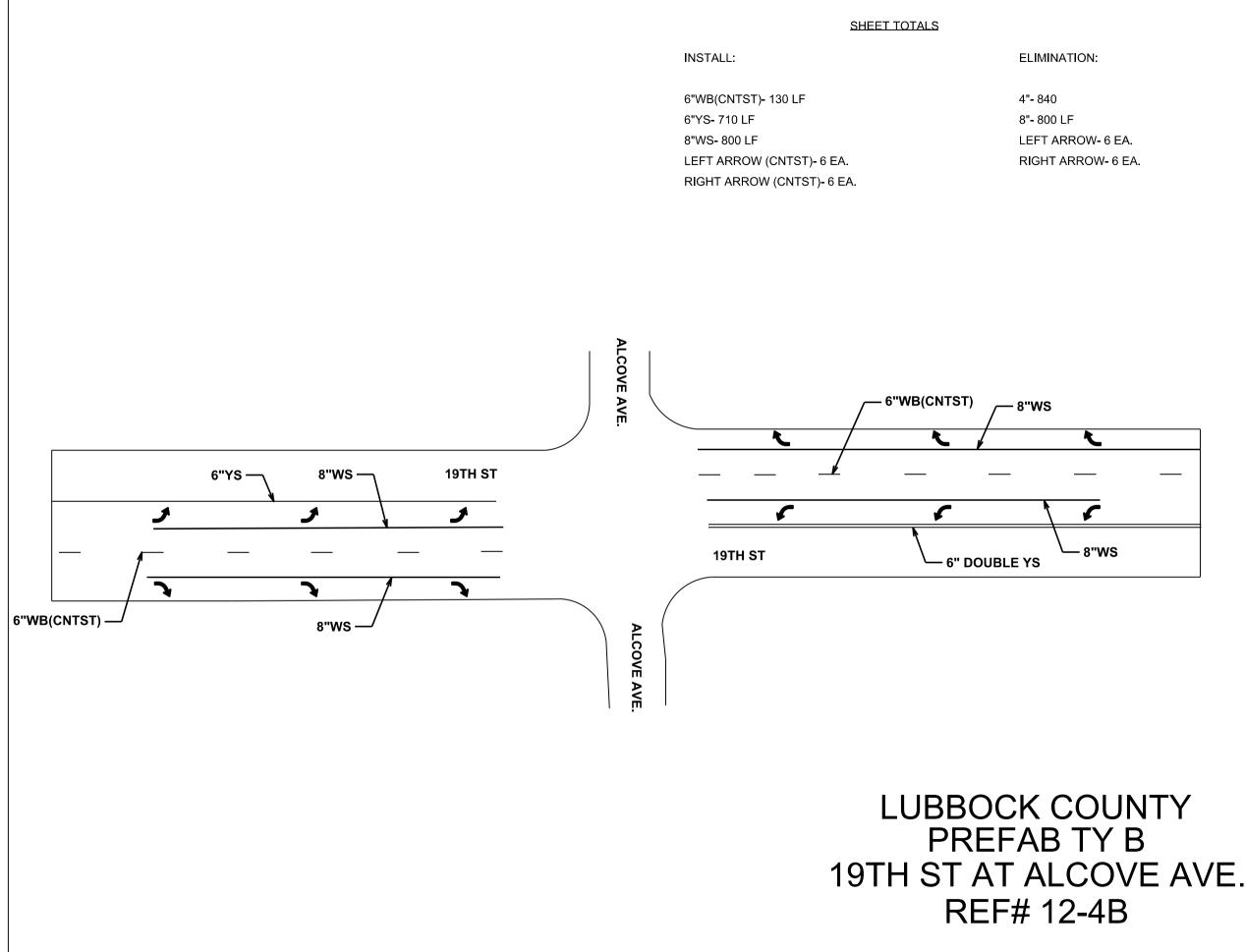




Jerenny T. Dearing, P.E.

01/05/2023

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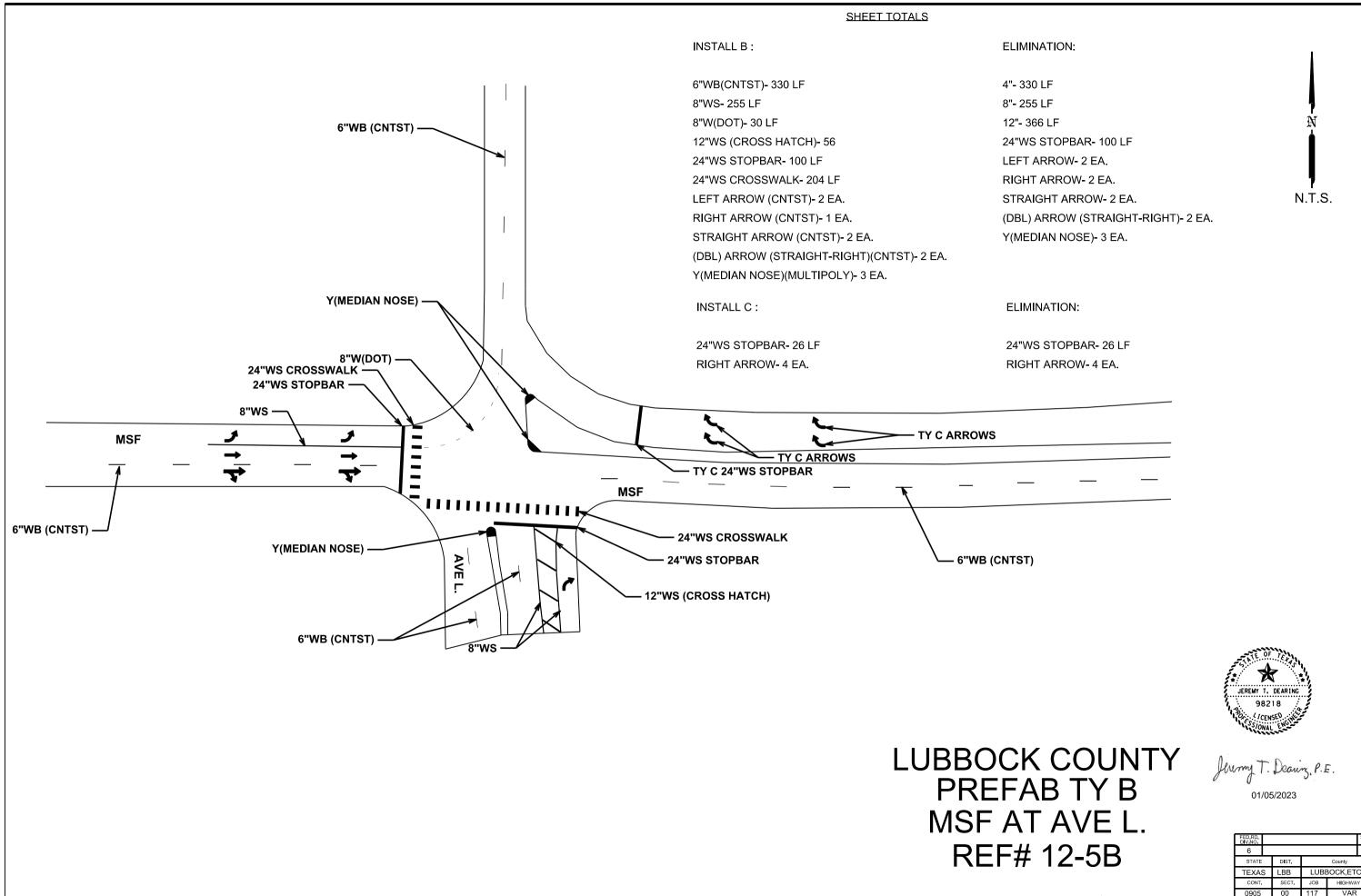
"WS	



Jeremy T. Dearing, P.E.

01/05/2023

FED.RD. DIV.NO									
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TEXAS		LBB	LUBBOCK,ETC.						
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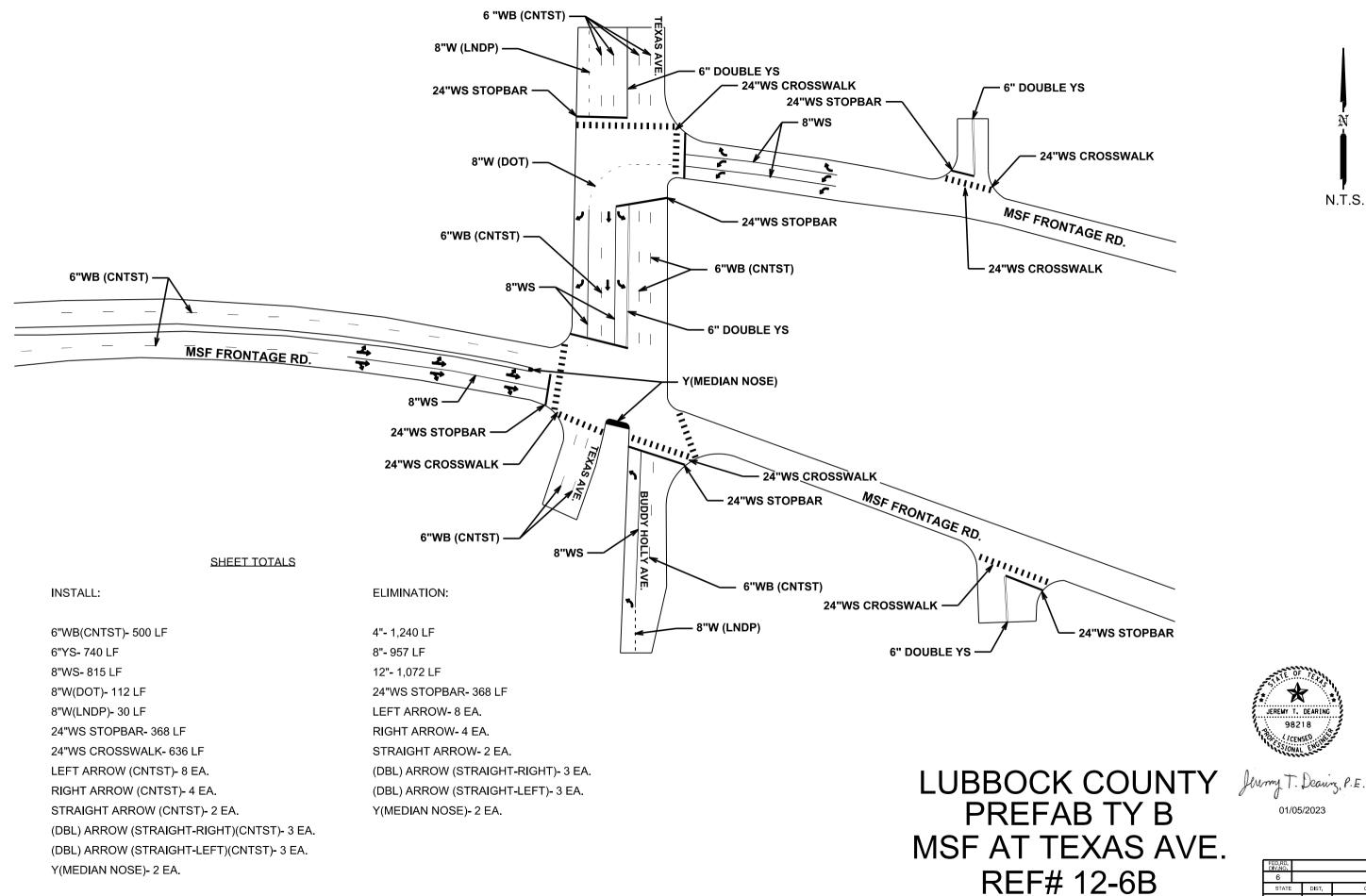


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1/4/2023

2023 SPECIALTY

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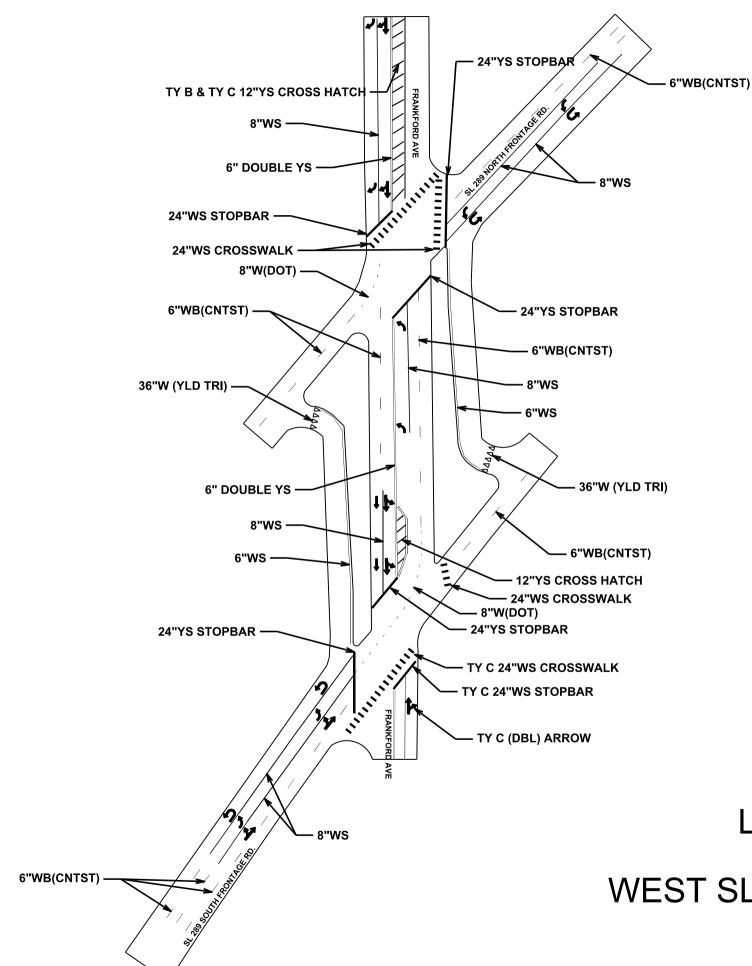




01/05/2023

FED.RD. DIV.NO.									
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0905		00	117 VAR						
		DAT	E						
202	23	1/4/2	023						





**INSTALL TY B:** 

6"WB(CNTST)- 400 LF 6"WS- 520 LF 6"YS- 1,200 LF 8"WS- 1,482 LF 8"W(DOT)- 50 LF 12"YS (CROSS HATCH) (ADDED)- 150 LF 24"WS STOPBAR- 278 LF 24"WS CROSSWALK- 276 LF LEFT ARROW (CNTST)- 6 EA. RIGHT ARROW (CNTST)- 2 EA. STRAIGHT ARROW (CNTST)- 2 EA. (ADDED) UTURN ARROW (CNTST)- 4 EA. (DBL) ARROW (STRAIGHT-LEFT)(CNTST)- 4 EA. (DBL) ARROW (STRAIGHT-RIGHT)(CNTST)- 2 EA. 36"W(YLD TRI)- 20 EA.

### **INSTALL TY C:**

12"YS CROSS HATCH (ADDED)- 160 LF 24"WS STOPBAR- 34 LF 24"WS CROSSWALK- 132 LF (DBL) ARROW (STRAIGHT-RIGHT)- 1 EA.

LUBBOCK COUNTY PREFAB TY B WEST SL 289 AT FRANKFORD AVE. **REF# 12-9B** 

ELIMINATION: 4"- 2,120 LF 8"- 1,532 LF 12"- 440 LF 24"WS STOPBAR- 278 LF LEFT ARROW- 6 EA. N.T.S. **RIGHT ARROW- 2 EA.** UTURN ARROW- 4 EA. (DBL) ARROW (STRAIGHT-LEFT)- 4 EA. (DBL) ARROW (STRAIGHT-RIGHT)- 2 EA. 36"W(YLD TRI)- 0 EA.

**ELIMINATION:** 

12"- 200 LF 24"- 34 LF (DBL) ARROW (STRAIGHT-RIGHT)- 1 EA.



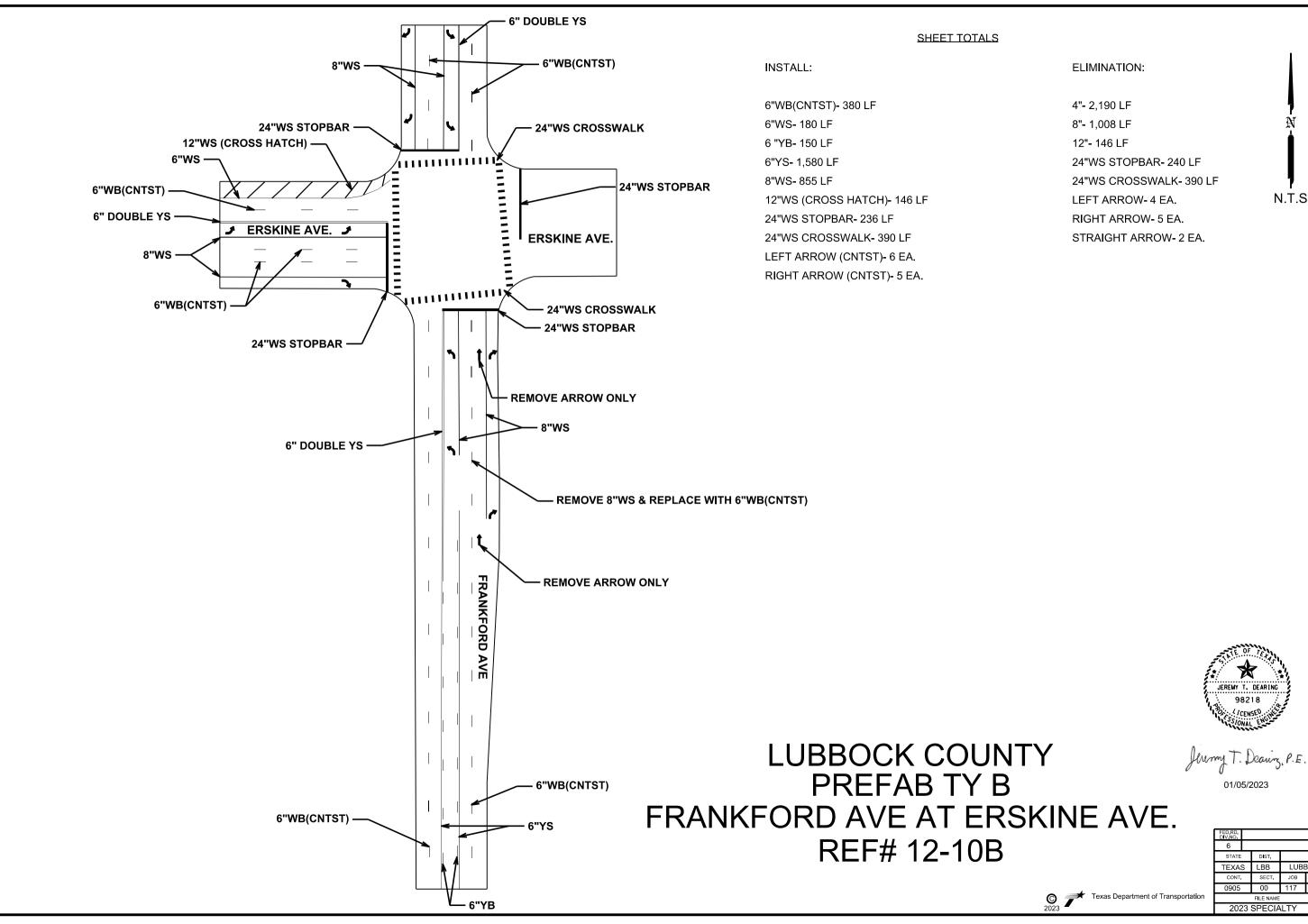
flumy T. Dearing, P.E.

01/05/2023

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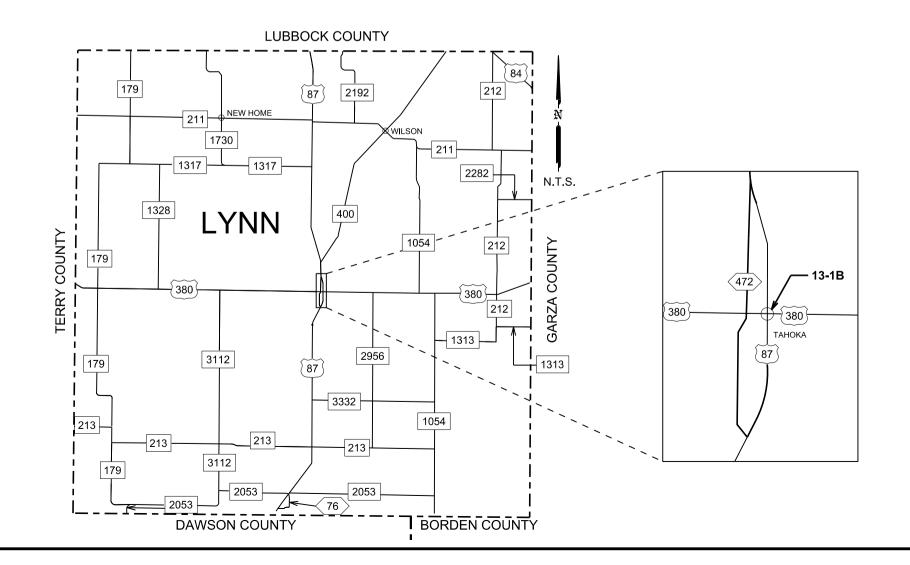




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CONT.		SECT.	JOB	HIGHWA	Y NO.				
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		DAT	re						
202	23	2023 SPECIALTY							

County 13: Lynn	Hwy	Rdwy	Description	Cont	Sect	Begin TRM (MI)	End TRM (MI)	6"WS	6"WB	24"WS	6"YS	
13-1B	US	87	AT US 380 (TAHOKA)	297 06	97 06	302-0476	302-0.476	100	300	334	1,060	
						то	ΓAL	100	300	334	1,060	

County 13: Lynn	Hwy	Rdwy	Description		Sect	Begin TRM (MI)	End TRM (MI)	4" ELIM	6" ELIM	12" ELIM	24" ELIM	
13-1B	US	87	AT US 380 (TAHOKA)		06	302-0476	302-0.476	1,160	300	500	52	
						тот	AL	1,160	300	500	52	



## NOTES

SEE SHEET 042

NOTES

SEE SHEET 042

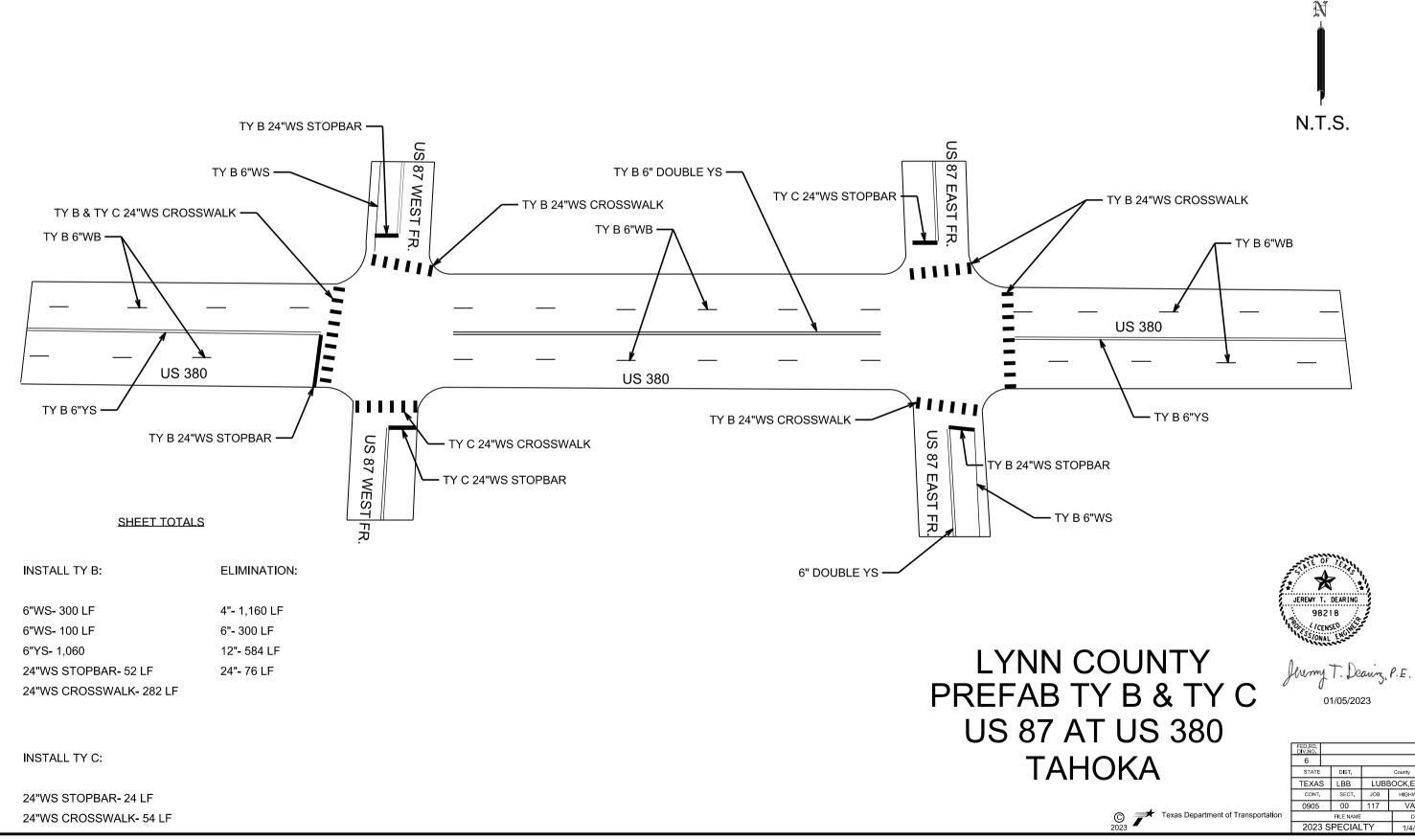


Jerenny T. Dearing, P.E.

01/05/2023



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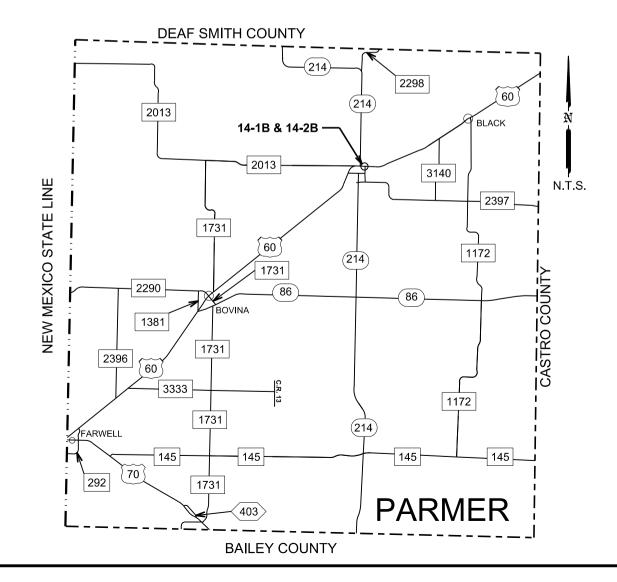
1/4/2023

County 14: Parmer	Hwy	Rdwy	Description	Cont	Sect	Begin TRM (MI)	End TRM (MI)	6"WB	18"WS	24"WS	36" W(YLD TRI)	6"YB	6"YS	NOTES
14-1B	US	60	AT CLEVELLAND ST IN FRIONA	168	03	252-0.387	252-0.387	280	78	284	0	130	1,170	SEE SHEET 044
14-2B	US	60	AT MAIN ST IN FRIONA	168	03	252-0.235	252-0.235	290	78	412	8	150	1,280	SEE SHEET 045
						тот	AL	570	156	696	8	280	2,450	

County 14: Parmer	Hwy	Rdwy	Description	Cont	Sect	Begin TRM (MI)	End TRM (MI)	4" ELIM	18" ELIM	36" W(YLD TRI) ELIM	NOTES
14-1B	US	60	AT CLEVELLAND ST IN FRIONA	168	03	252-0.387	252-0.387	1,580	78	0	SEE SHEET 044
14-2B	US	60	AT MAIN ST IN FRIONA	168	03	252-0.235	252-0.235	1,720	78	8	SEE SHEET 045
						то	TAL	3,300	156	8	

NOTE: THE REFERENCED INTERSECTIONS ARE ON SIGNAL PROJECT 2023 0905-00-112

WHICH HAVE ARROWS, CROSSWALKS, & 8"WS PAVEMENT MARKINGS



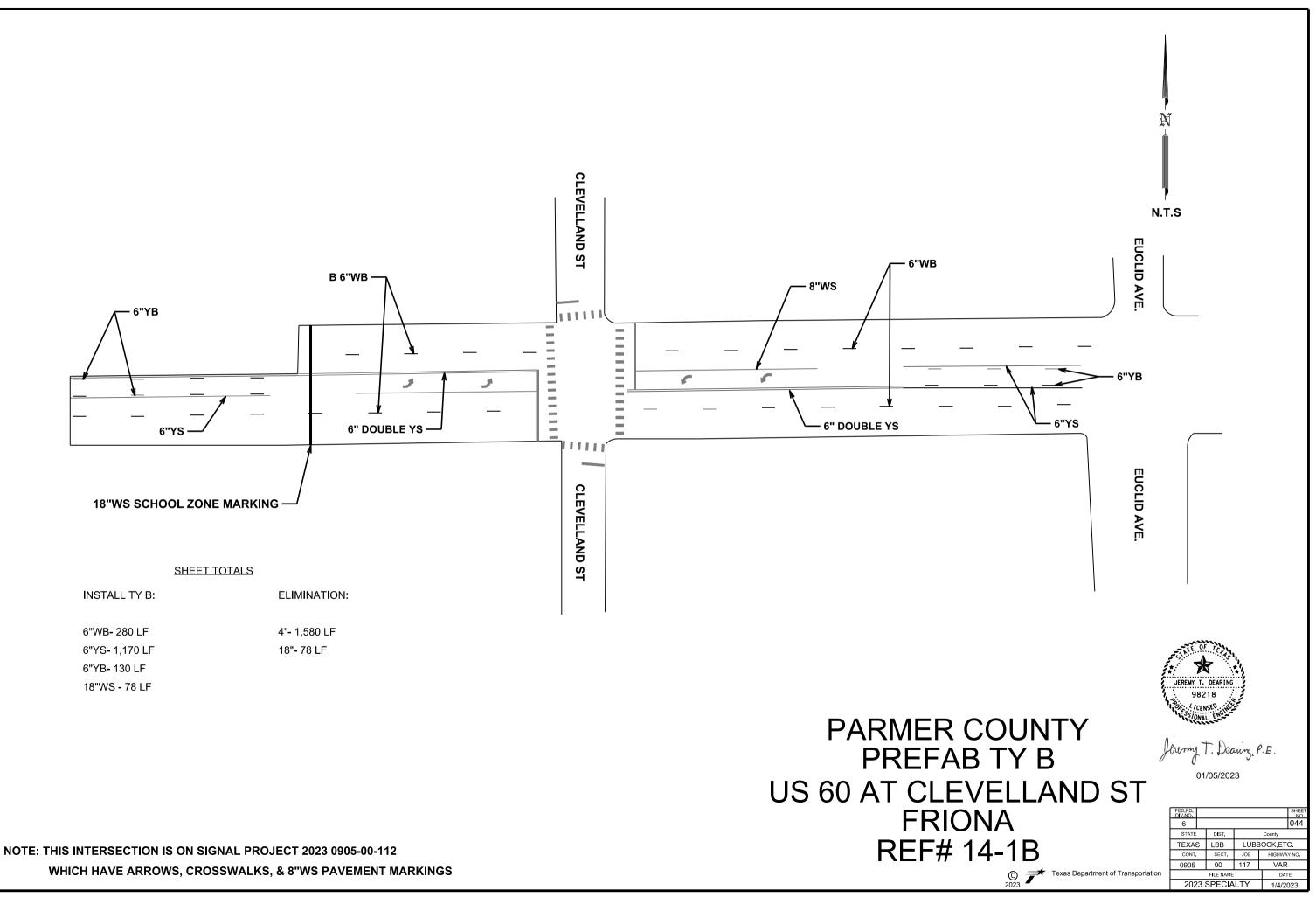


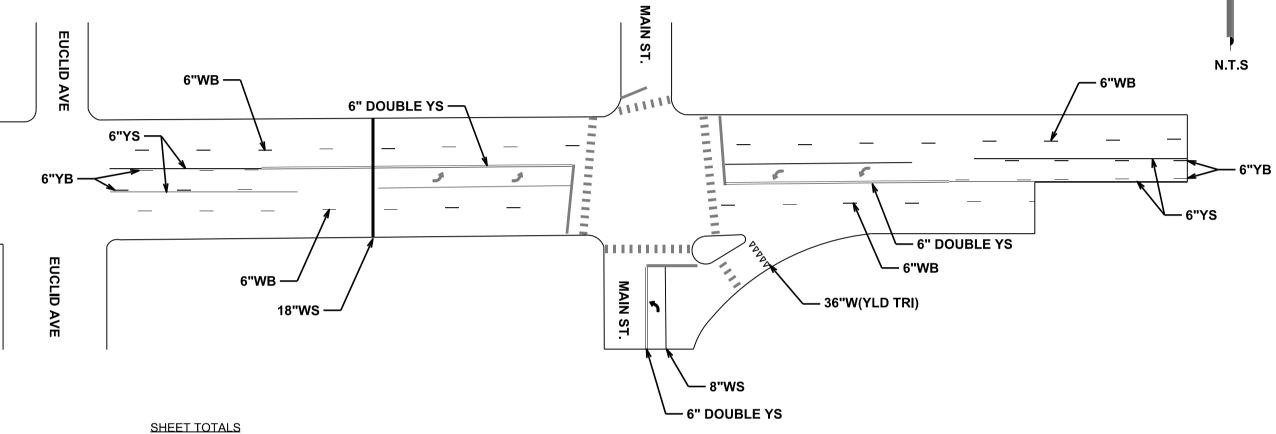




Jeremy T. Dearing, P.E.

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CONT.		SECT.	JOB	HIGHWA	Y NO.							
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	re											
202	23	1/4/2	023									





6"WB- 290 LF 6"YS- 1,280 LF 6"YB- 150 LF 18"WS - 78 LF 36"W (YLD TRI)- 8 EA.

INSTALL TY B:

ELIMINATION:

4"- 1,720 LF 18"- 78 LF 36"W(YLD TRI)- 8 EA.

> PARN PR US 60 R

NOTE: THIS INTERSECTION IS ON SIGNAL PROJECT 2023 0905-00-112 WHICH HAVE ARROWS, CROSSWALKS, & 8"WS PAVEMENT MARKINGS

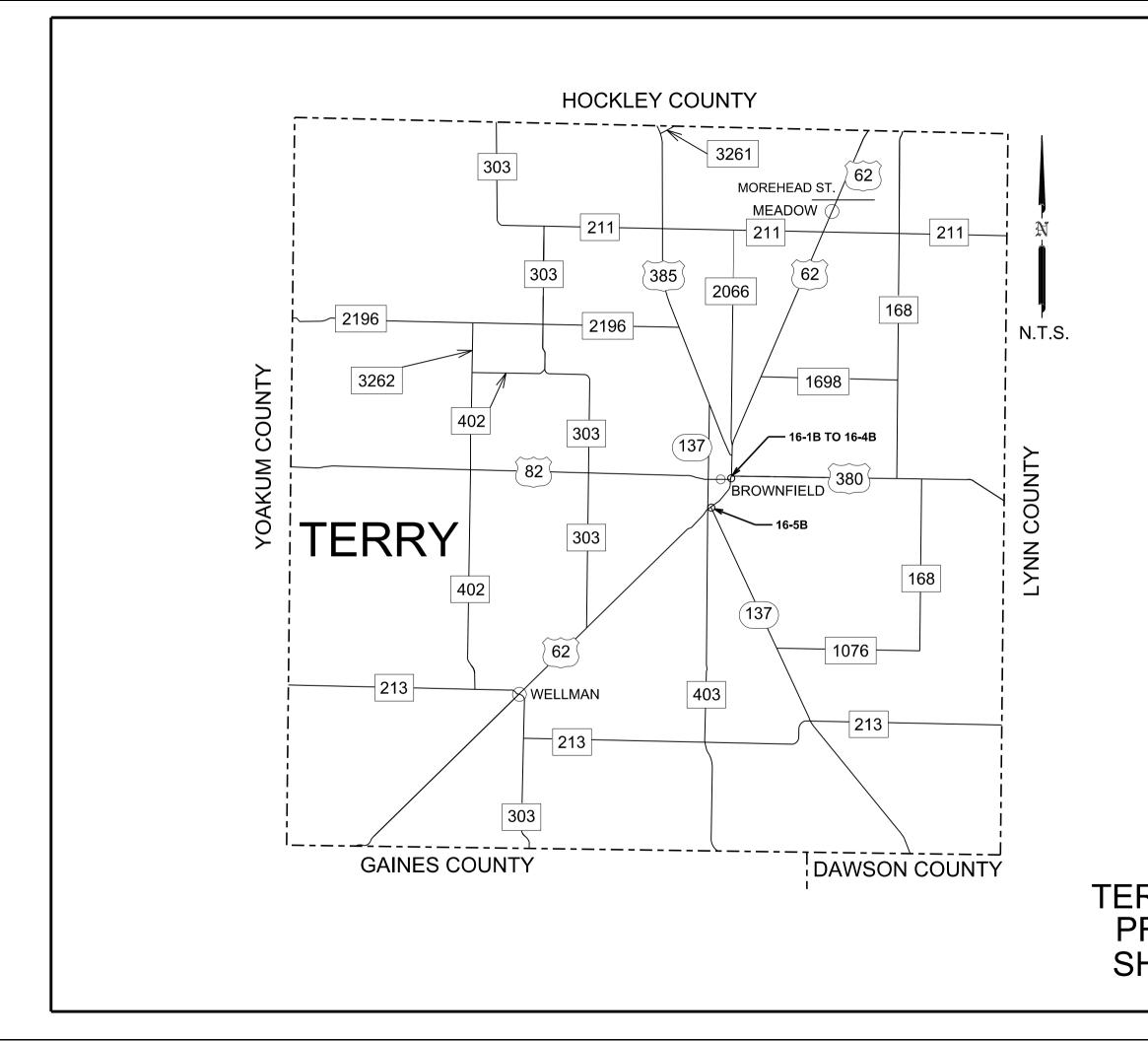
MER COUNTY REFAB TY B	ferenny 0	T. De		P.E.	
FRIONA	FED.RD. DIV.NO.				SHEET NO. 045
	STATE	DIST.		County	_ 0.40
REF# 14-2B	TEXAS	LBB	LUBE	BOCK,ET	C.
ΛCΓ# 14-2D	CONT.	SECT.	JOB	HIGHWA	
n 🔿 🔿 Texas Department of Transportation	0905	00	117	VAR	
	2023			DAT 1/4/20	
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Jerenny T. Dearing, P.E.

01/05/2023

RRY COUNTY
REFAB TY B
HEET 1 OF 2
C Texas Department of Transportation

FED.RD. DIV.NO.					SHEET NO.					
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STATE		DIST.		County						
TEXA	S LBB LUBBOCK,ETC.									
CONT.		SECT.	JOB	HIGHWA	Y NO.					
0905		00	117	VAR						
	FILE NAME DATE									
2023	1/4/2	023								

County 16: Terry	Hwy	Rdwy	Description	Cont	Sect	Begin TRM (MI)	End TRM (MI)	6" WB CNTST	8"WS	12"WS	24"WS	36" W(YLD TRI)	6"YB	6"YS	NOTES
16-1B	US	62	AT MAIN ST IN BROWNFIELD	227	07	286+0.841	286+0.841	180	362	0	364	0	60	855	SEE SHEET 048
16-2B	US	62	AT US 380 IN BROWNFIELD	227	07	288-0.908	288-0.908	220	528	40	410	7	60	912	SEE SHEET 049
16-3B	US	62	AT TATE ST. IN BROWNFIELD	228	01	286+0.691	286+0.691	40	185	0	216	0	0	185	SEE SHEET 050
16-4B	US	62	AT BUCKLEY ST IN BROWNFIELD	228	01	286+0.55	286+0.55	80	258	30	284	0	0	360	SEE SHEET 051
16-5B	US	62	AT SH 137 IN BROWNFIELD	228	01	286-0.586	286-0.586	0	0	0	120	0	0	360	1 STOPBAR, 1 NEW CROSSWALK, 6"DOUBLE YELLOW SOLID CENTERLII (NO EXISTING PAVEMENT MARKINGS
				I		тот	TAL	520	1,333	70	1,394	7	120	2,672	

County 16: Terry	Hwy	Rdwy	Description Cont Sect E		Begin TRM (MI)	End TRM (MI)	Arrow (Left)	Arrow (Right)	Arrow (DBL) (Straight-Right)	Arrow (DBL) (Straight-Left)	NOTES	
16-1B	US	62	AT MAIN ST IN BROWNFIELD	227	07	286+0.841	286+0.841	7	0	3	0	SEE SHEET 048
16-2B	US	62	AT US 380 IN BROWNFIELD	227	07	288-0.908	288-0.908	6	2	0	2	SEE SHEET 049
16-3B	US	62	AT TATE ST. IN BROWNFIELD	228	01	286+0.691	286+0.691	4	0	0	0	SEE SHEET 050
16-4B	US	62	AT BUCKLEY ST IN BROWNFIELD	228	01	286+0.55	286+0.55	4	0	0	0	SEE SHEET 051
							ΓAL	21	2	3	2	

County 16: Terry	Hwy	Rdwy	Description	Cont	Sect	Begin TRM (MI)	End TRM (MI)	4" ELIM	8" ELIM	12" ELIM	24" ELIM	Arrow (L) ELIM	Arrow (R) ELIM	Arrow (DBL) (Stralght-Right) ELIM	Arrow (DBL) (Stralght-Left) ELIM	36" W(YLD TRI) ELIM	NOTES
16-1B	US	62	AT MAIN ST IN BROWNFIELD	227	07	286+0.841	286+0.841	1,095	362	392	124	6	0	2	0	0	SEE SHEET 048
16-2B	US	62	AT US 380 IN BROWNFIELD	227	07	288-0.908	288-0.908	1,192	528	476	134	6	2	0	2	7	SEE SHEET 049
16-3B	US	62	AT TATE ST. IN BROWNFIELD	228	01	286+0.691	286+0.691	225	185	312	96	4	0	0	0	0	SEE SHEET 050
16-4B	US	62	AT BUCKLEY ST IN BROWNFIELD	228	01	286+0.55	286+0.55	440	258	350	92	4	0	0	0	0	SEE SHEET 051
						тот	TAL	2,952	1,333	1,530	446	20	2	2	2	7	

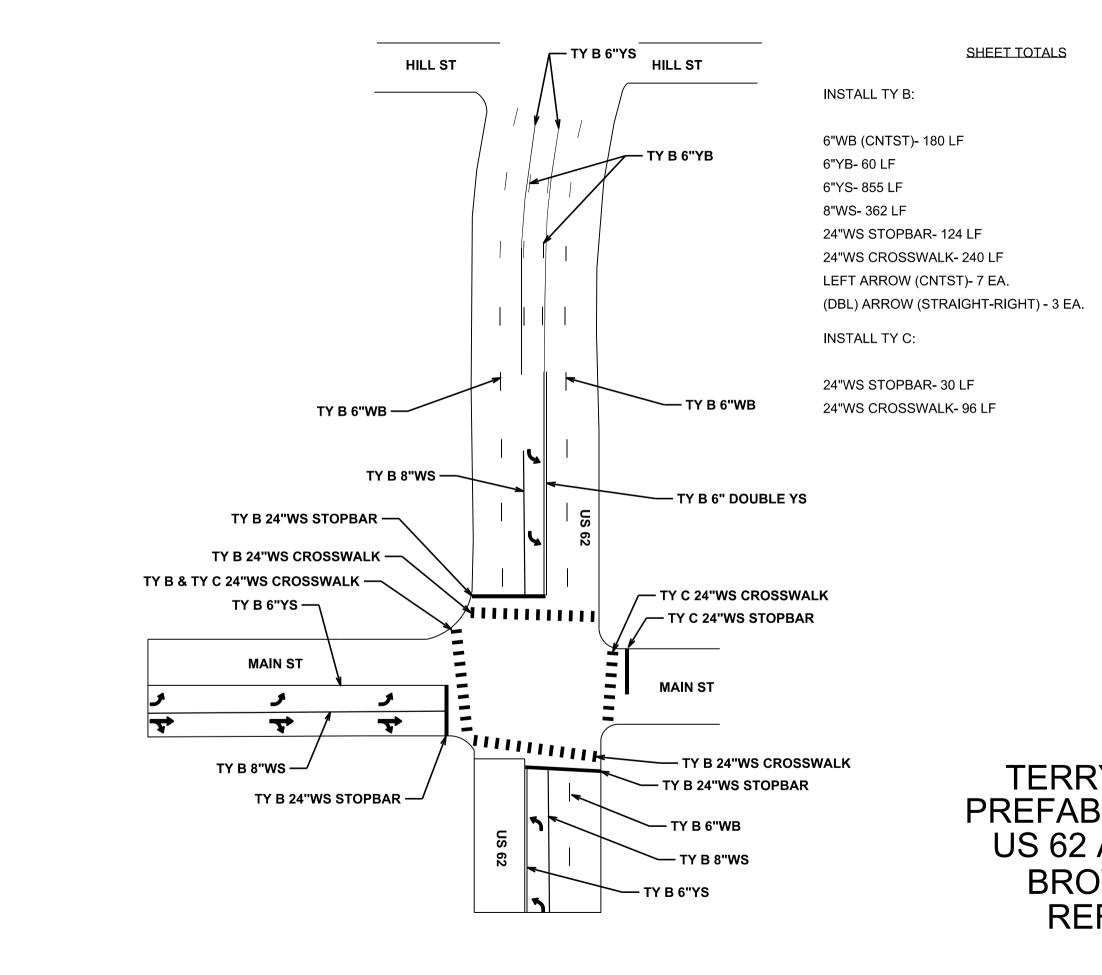


Jeurmy T. Dearing, P.E.

01/05/2023

RRY CO	OUNTY
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HEET 2	2 OF 2
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FED RD DIV NO					SHEET NO.					
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STATE		DIST.		County						
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0905		00	117	VAR						
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2023 SPECIALTY 1/4/2023										

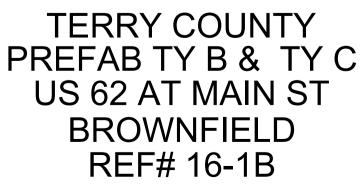


**ELIMINATION:** 

4"- 1,095 LF 8"- 362 LF 12"- 392 LF 24"- 124 LF LEFT ARROW (CNTST)- 6 EA. (DBL) ARROW (STRAIGHT-RIGHT) - 2 EA.

ELIMINATION:

12"- 176 LF 24"- 30 LF



2023

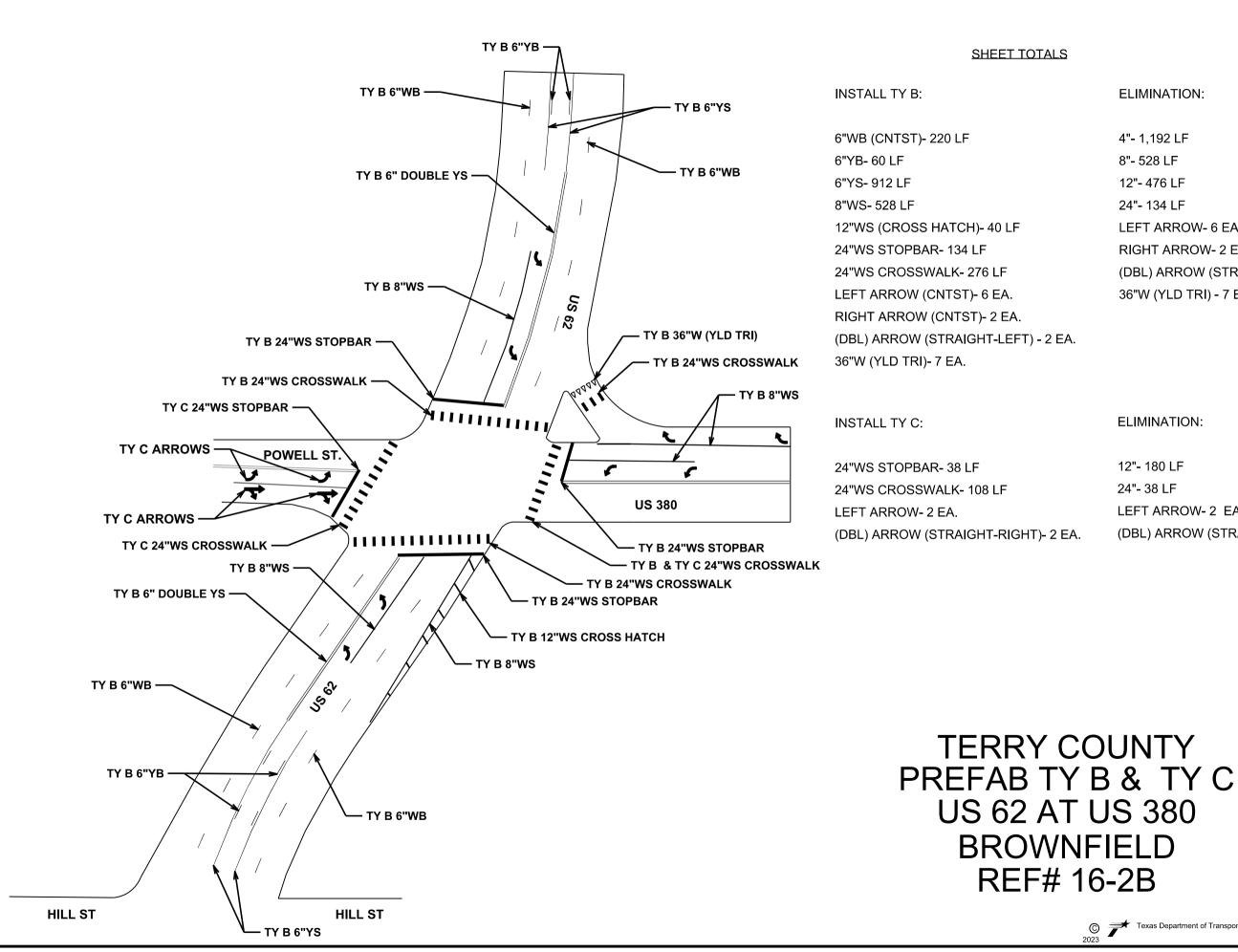


Jermy T. Dearing, P.E. 01/05/2023

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N.T.S.

FED RD DIV NO					SHEET NO.						
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2023	ŝ										



ELIMINATION:

4"- 1,192 LF 8"- 528 LF 12"- 476 LF N.T.S. 24"- 134 LF LEFT ARROW- 6 EA. **RIGHT ARROW- 2 EA.** (DBL) ARROW (STRAIGHT-LEFT) - 2 EA. 36"W (YLD TRI) - 7 EA.

N

**REF# 16-2B** 

©

2023

ELIMINATION:

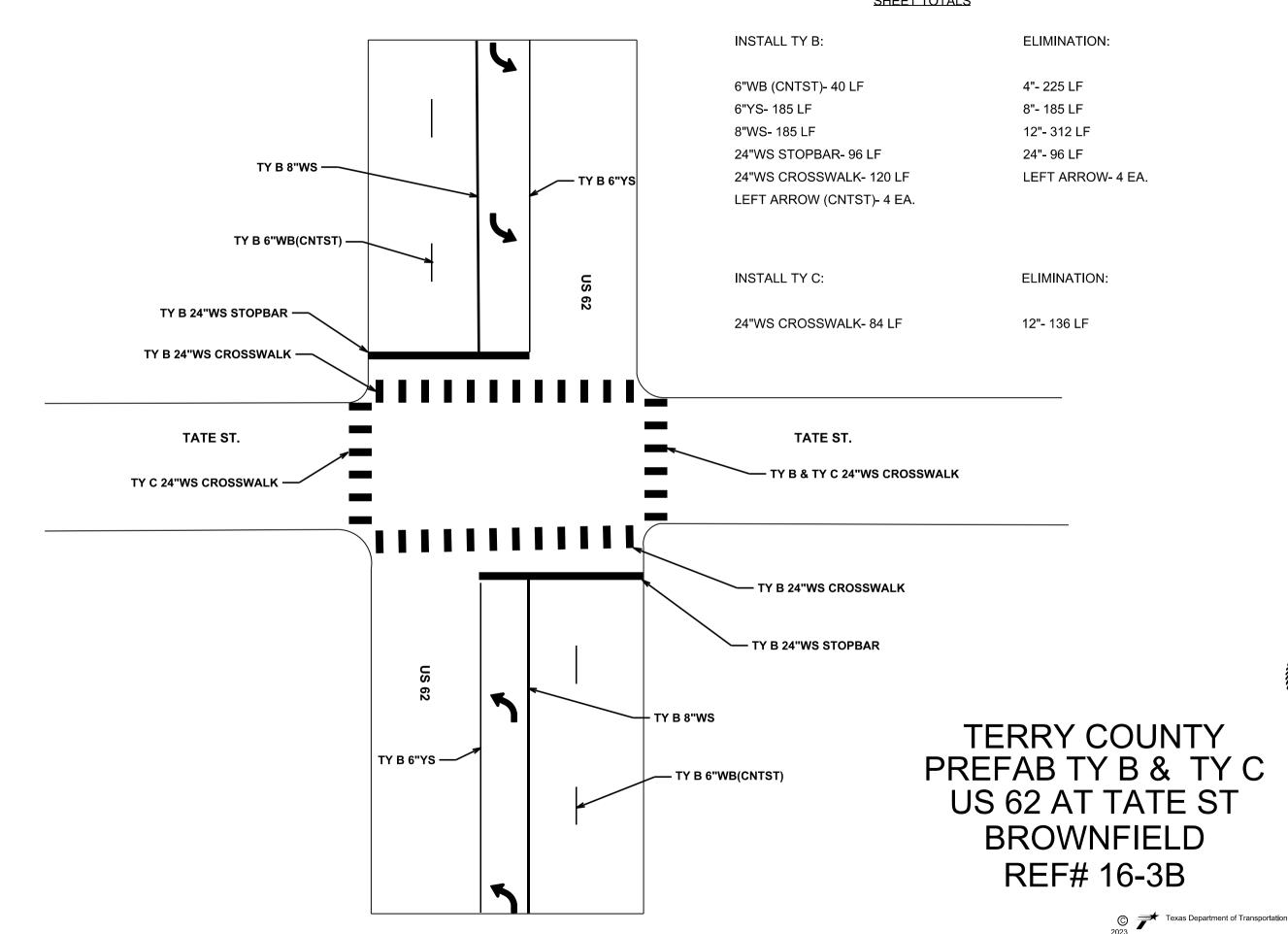
12"- 180 LF 24"- 38 LF LEFT ARROW-2 EA. (DBL) ARROW (STRAIGHT-RIGHT)- 2 EA.

Texas Department of Transportation



Hermy T. Deaury, P.E.

FED.RD. DIV.NO.					SHEET NO.
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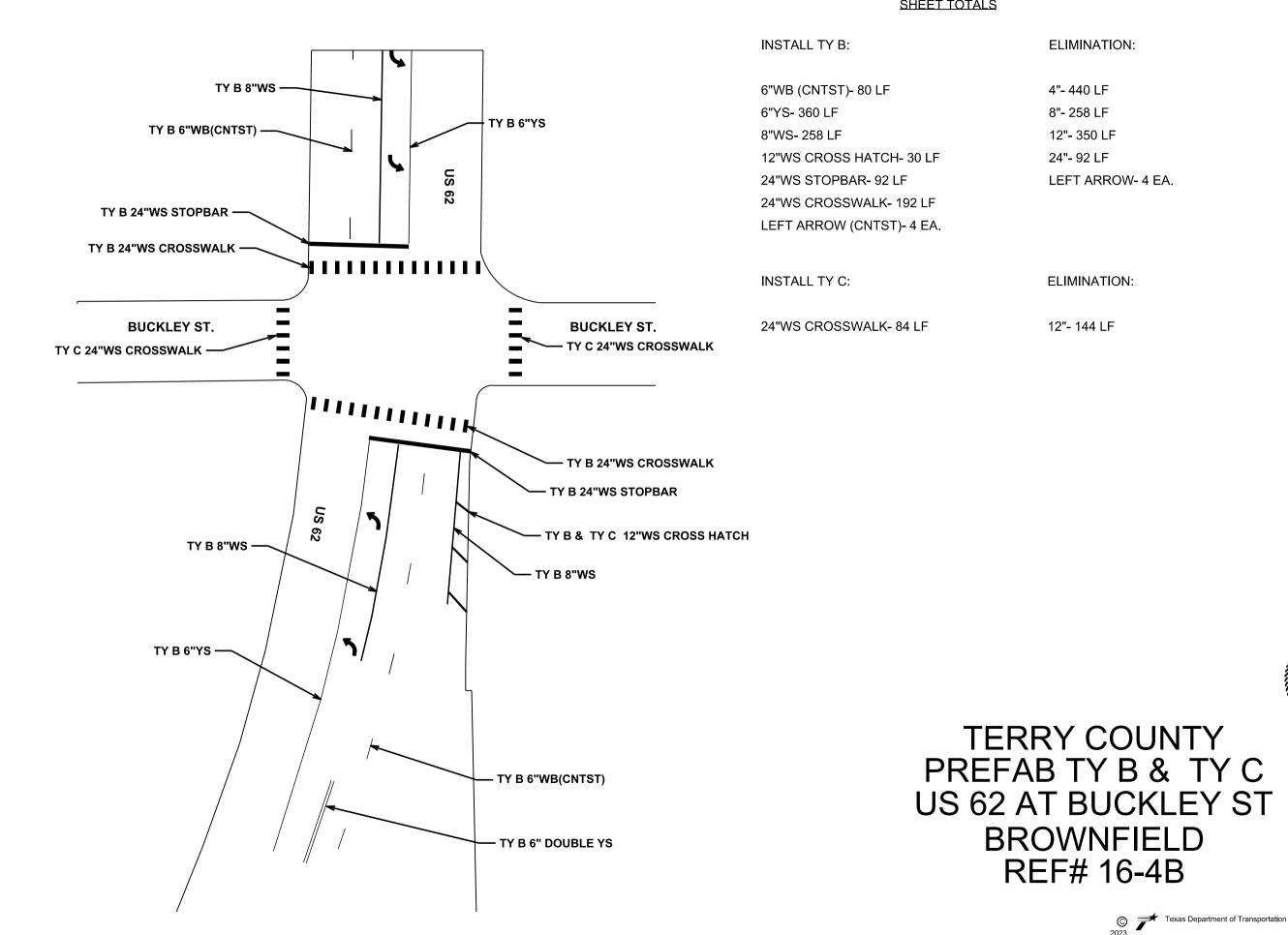


N N.T.S.



Jerenny T. Dearing, P.E

FED RD DIV NO					SHEET NO.					
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2023	2023 SPECIALTY 1/2									



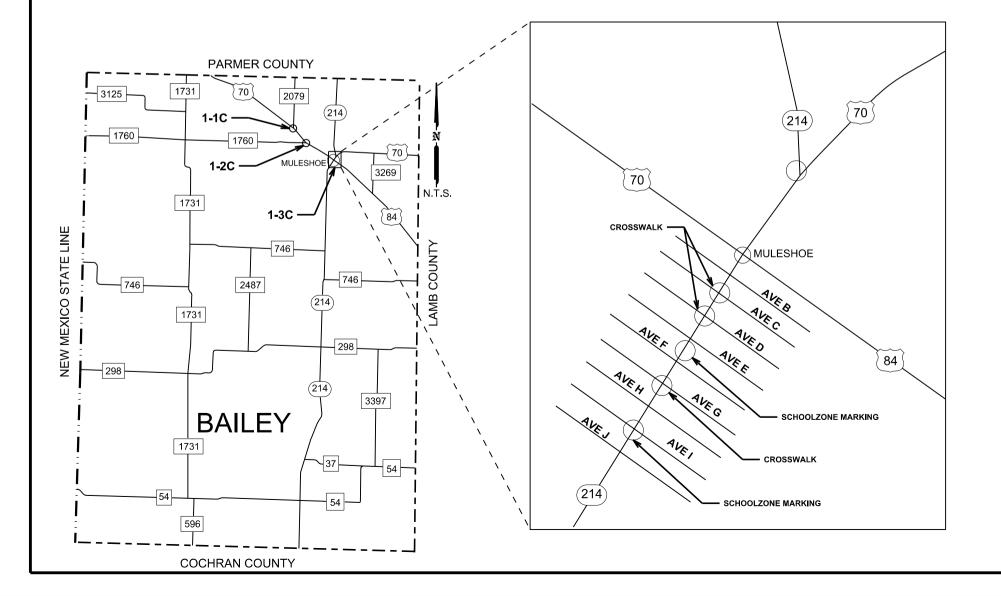




Jermy T. Dearing P.E.

FED RD DIV NO					SHEET NO.						
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2023	3 S	1/4/2	023								

County 1: Bailey	Hwy	Rdwy	Intersection	Cont	Sect	Begin TRM (MI)	End TRM (MI)	18"WS	24"WS	RR XING	12" ELIM	18" ELIM	24" ELIM	RR XING ELIM	NOTES
1-1C	US	70	AT FM 2079	52	02	246-0.258	246-0.258	0	90	2	0	0	90	2	1 STOPBAR, 2 RR CROSSING MARKINGS, 5 RR STOPBARS ON FM 2079
1-2C	US	70	AT FM 1760	52	02	248-0.821	248-0.0821	0	20	0	0	0	20	0	1 STOPBAR ON FM 1760(SOUTHBOUN DIRECTION)
1-3C	SH	214	BETWEEN AVE B AND AVE J IN MULESHOE	461	01	184-1.897	184-1.321	110	180	0	330	110	0	0	3-CROSSWALKS, 2-SCHOOLZONE MARKINGS IN MULESHOE (REMOVE 12"WS CROSSWALK & INSTALL 24"W CROSSWALK)
	1	1				тот	AL	110	290	2	330	110	110	2	





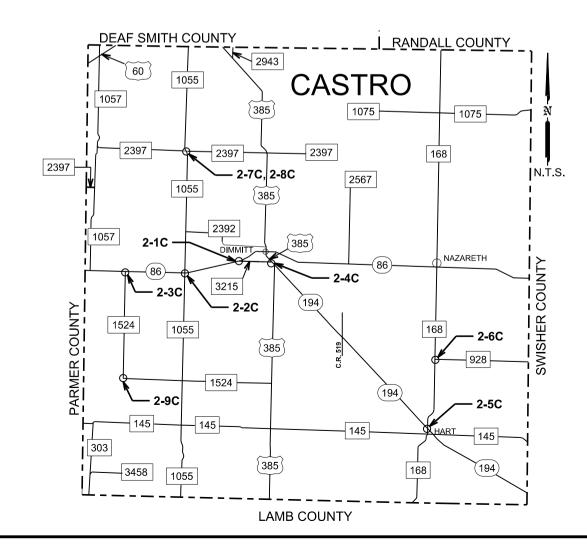
Jeremy T. Dearing, P.E.

01/05/2023

**BAILEY COUNTY** PREFAB TY C © Texas Department of Transportation

FED RD DIV NO					SHEET NO.						
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STATE		DIST.	County								
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CONT.		SECT.	JOB	HIGHWA	Y NO.						
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		DAT	re								
202	3 3	1/4/2	023								

County 2: Castro	Hwy	Rdwy	Intersection	Cont	Sect	Begin TRM (MI)	End TRM (MI)	24"WS	24" ELIM	NOTES
2-1C	SH	86	AT FM 3215	302	02	266+0.506	266+0.506	20	20	1 STOPBAR ON FM 3215
2-2C	SH	86	AT FM 1055	302	02	262+0.754	262+0.754	26	26	1 STOPBAR ON FM 1055 (SOUTHBOUND DIRECTION ONLY)
2-3C	SH	86	AT FM 1524	302	02	258-0.042	258-0.042	20	20	1 STOPBAR ON FM 1524
2-4C	US	385	AT FM 3215	439	01	148+0.320	148+0.320	30	30	1 STOPBAR ON FM 3215
2-5C	SH	194	AT FM 168	439	02	286-0.414	286-0.414	30	30	2 STOPBAR ON SH 194 (EASTBOUND & WESTBOUND DIRECTIONS)
2-6C	FM	168	AT FM 928	874	01	154+0.488	154+0.488	18	18	1 STOPBAR ON FM 928 (WESTBOUND DIRECTION)
2-7C	FM	1055	AT FM 2397	1291	01	136+0.994	136+0.994	15	15	1 STOPBAR ON FM 1055 (NORTHBOUND DIRECTION)
2-8C	FM	1055	AT FM 2397	1291	08	136+0.981	136+0.981	15	15	1 STOPBAR ON FM 1055 (SOUTHBOUND DIRECTION)
2-9C	FM	1524	AT FM 1524	1891	02	264+1.114	264+1.114	12	0	1 NEW STOPBAR ON FM 1524 (SOUTHBOUND DIRECTION) (NO ELIMINATION)
						тот	ΓAL	186	174	





× JEREMY T. DEARING 98218 SSIONAL ENG

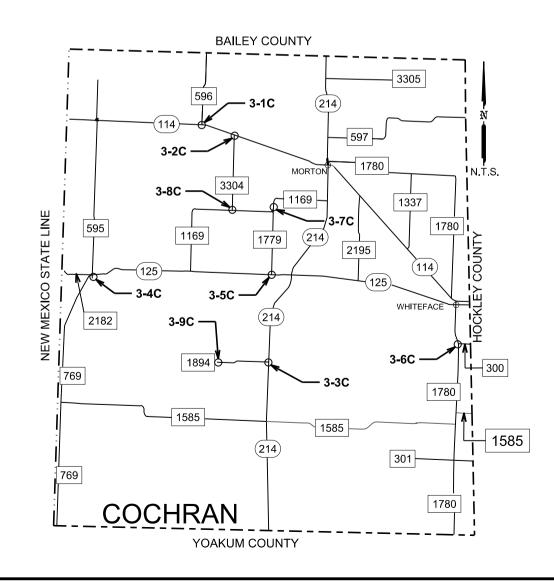
Jeremy T. Dearing, P.E.

01/05/2023

## CASTRO COUNTY PREFAB TY C © Texas Department of Transportation

FED.RD. DIV.NO.					SHEET NO.							
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STATE		DIST.	County									
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CONT.		SECT.	JOB	HIGHWA	Y NO.							
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County 3: Cochran	Hwy	Rdwy	Intersection	Cont	Sect	Begin TRM (MI)	End TRM (MI)	24"WS	24" ELIM	NOTES
3-1C	SH	114	AT FM 596	130	01	232+0.354	232+0.354	24	24	1 STOPBAR ON FM 596
3-2C	SH	114	AT FM 3304	130	01	234+0.503	234+0.503	18	18	1 STOPBAR ON FM 3304
3-3C	SH	214	AT FM 1894	461	04	232+0.305	232+0.305	12	12	1 STOPBAR ON FM 1894
3-4C	SH	125	AT FM 595	967	02	228+0.279	228+0.279	12	12	1 STOPBAR ON FM 595 (NORTHBOUNE DIRECTION)
3-5C	SH	125	AT FM 1779	967	02	240-0.375	240-0.375	10	10	1 STOPBAR ON FM 1779
3-6C	FM	300	AT FM 1780	1341	01	250-0.045	250-0.045	14	14	1 STOPBAR ON FM 300
3-7C	FM	1169	AT FM 1779	1481	01	242-0.573	242-0.573	24	24	1 STOPBAR ON FM 1779 (NORTHBOUNI DIRECTION ONLY)
3-8C	FM	1169	AT FM 3304	1481	01	238+0.813	238+0.813	20	20	1 STOPBAR ON FM 3304
3-9C	FM	1894	AT COUNTY RD. 97	1894	01	234-0.047	234-0.047	12	12	1 STOPBAR ON FM 1894 (WESTBOUND DIRECTION)
						тот	<b>FAL</b>	146	146	





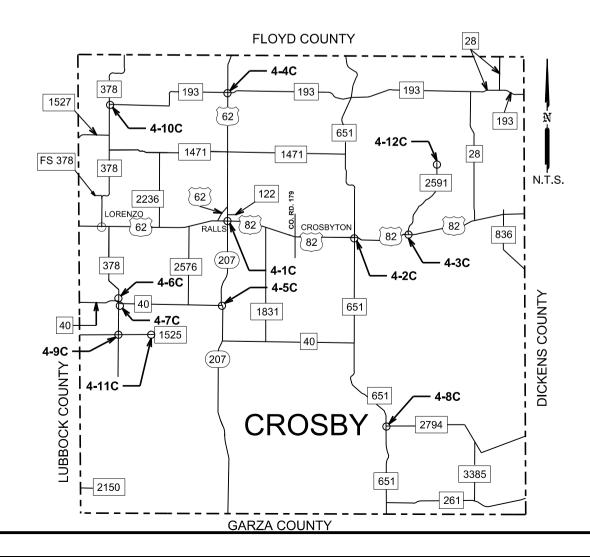
Jerenny T. Dearing, P.E.

01/05/2023

# COCHRAN COUNTY PREFAB TY C

FED.RD. DIV.NO.					SHEET NO.						
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STATE		DIST.	County								
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CONT.		SECT.	JOB	HIGHWA	Y NO.						
0905		00	117	VAR							
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20	23	1/4/20	023								

County 4: Crosby	Hwy	Rdwy	Intersection	Cont	Sect	Begin TRM (MI)	End TRM (MI)	24"WS	36"W (YLD TRI)	12" ELIM	24" ELIM	NOTES
4-1C	US	82	AT SH 207	131	03	338+0.105	338+0.105	60	0	0	60	2 STOPBARS ON SH 207 (NORTHBOUN & SOUTHBOUN DIRECTION)
4-2C	US	82	AT FM 651	131	04	346+0.764	346+0.764	134	0	124	62	1 STOPBAR ON FM 651 SOUTHBOUND, CROSSWALK SOUTHBOUND (REMOVI 12"WS & INSTALL CROSSWALK WITH 24"WS)
4-3C	US	82	AT FM 2591	131	04	350+0.471	350+0.471	26	0	0	26	1 STOPBAR ON FM 2591
4-4C	US	62	AT FM 193	453	02	368-0.556	368-0.556	28	0	0	28	1 STOPBAR ON FM 193 (EASTBOUND DIRECTION ONLY)
4-5C	SH	207	AT FM 40 (WEST)	453	04	236+0.814	236+0.814	12	0	0	12	1 STOPBAR ON FM 40
4-6C	FM	40 (EAST)	AT FM 378	644	03	314-1.122	314-1.122	14	0	0	14	1 STOPBAR ON FM 40 (WESTBOUND DIRECTION)
4-7C	FM	40 (WEST)	AT FM 378	644	03	310+0.023	310+0.023	14	0	0	14	1 STOPBAR ON FM 40 (EASTBOUND DIRECTION)
4-8C	FM	651	AT FM 2794	806	03	222+0.930	222+0.930	12	0	0	12	1 STOPBAR ON FM 2794
4-9C	FM	378	AT FM 1525	800	04	222+0.276	222+0.276	24	0	0	24	2 STOPBARS ON FM 1525 (BOTH SIDES OF INTERSECTION
4-10C	FM	193	AT FM 378	1254	01	320+0.810	320+0.810	18	0	0	18	1 STOPBAR ON FM 193 (WESTBOUND DIRECTION ONLY)
4-11C	FM	1525	AT END OF STATE MAINTENANCE	1461	02	314+1.626	314+1.626	16	0	0	16	1 STOPBAR ON FM 1525 AT COUNTY R 131
4-12C	FM	2591	AT END OF STATE MAINTENANCE	2616	01	208+1.513	208+1.513	0	4	0	0	NEW YIELD TRIANGLES( NO EXISTING
		·				то	ΓAL	358	4	124	286	







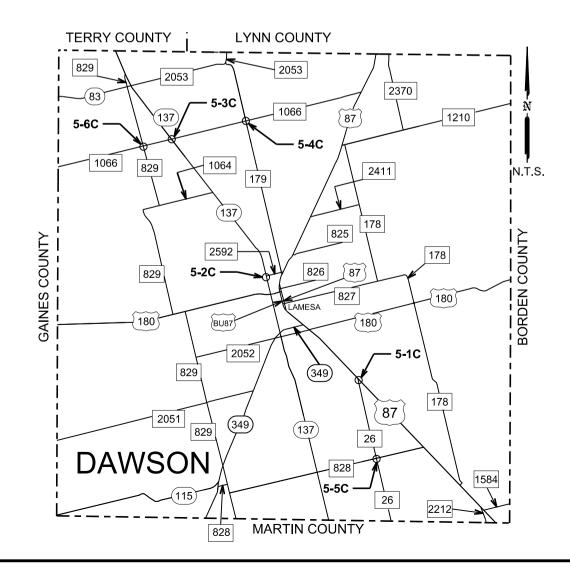
Jeremy T. Dearing, P.E.

01/05/2023

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NOTES	Arrow ( R ) ELIM	24" ELIM	Arrow (Right)	24"WS	End TRM (MI)	Begin TRM (MI)	Sect	Cont	Intersection	Rdwy	Hwy	County 5: Dawson
1 STOPBAR ON FM 26	0	20	0	20	276-0.067	276-0.067	05	68	AT FM 26	87	US	5-1C
4 RIGHT ARROWS IN THE TURN LANE	4	0	4	0	274+0.587	274+0.587	05	380	AT FM 2592	137	SH	5-2C
2 STOPBARS ON FM 1066 (EASTE WESTBOUND DIRECTION	0	32	0	32	264+0.162	264+0.162	05	380	AT FM 1066	137	SH	5-3C
1 STOPBAR ON FM 1066(EASTBOUNE ONLY)	0	20	0	20	286+0.945	286+0.945	05	494	AT FM 1066	179	FM	5-4C
2 STOPBARS ON FM 26 (NORTHE SOUTHBOUND DIRECTIONS C	0	26	0	26	282-0.592	282-0.592	01	637	AT FM 828	26	FM	5-5C
1 STOPBAR ON FM 1066 (WESTBOUN ONLY)	0	20	0	20	280-0.262	280-0.262	02	1962	AT FM 1066	829	FM	5-6C
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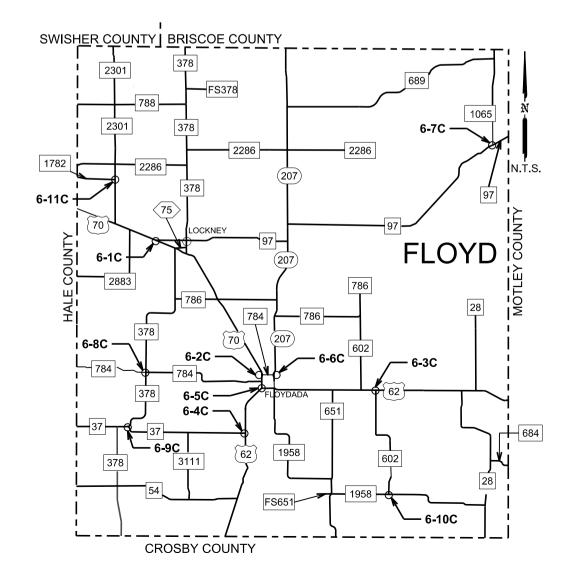
Jeremy T. Dearing, P.E.

01/05/2023

## **DAWSON COUNTY** PREFAB TY C © Texas Department of Transportation

FED.RD. DIV.NO					SHEET NO.					
6					056					
STATE		DIST. County								
TEXA	S	LBB	LUBBOCK,ETC.							
CONT		SECT.	JOB	HIGHWA	Y NO.					
0905		00	117	VAR						
FILE NAME DAT										
2023 SPECIALTY 1/4/20										

County 6: Floyd	Hwy	Rdwy	Intersection	Cont	Sect	Begin TRM (MI)	End TRM (MI)	12"WS	24"WS	12" ELIM	24" ELIM	NOTES
6-1C	US	70	AT FM 97	145	06	326-0.803	326-0.803	0	24	0	24	1 STOPBAR ON FM 97 (WESTBOUND DIRECTION)
6-2C	US	70	AT FM 784	145	06	338-0.01	338-0.01	0	40	0	22	1 STOPBAR ON FM 784
6-3C	US	62	AT FM 602	145	07	390+0.735	380+0.735	0	22	0	22	1 STOPBAR ON FM 602
6-4C	US	62	AT FM 37	453	01	380-0.355	380-0.355	0	24	0	24	1 STOPBAR ON FM 37
6-5C	US	62	AT US 70	453	01	384-0.741	384-0.894	400	0	400	0	HASH MARKS ON US 70 IN FLOYDADA (SEE SHEET 027)
6-6C	SH	207	AT FM 784	453	08	206+0.426	206+0.426	0	22	0	40	1 STOPBAR ON FM 784
6-7C	FM	97	AT FM 1065	707	03	344+0.865	344+0.865	0	22	0	22	2 STOPBARS ON FM 1065("Y"INTERSECTION)
6-8C	FM	378	AT FM 784 (WEST)	800	01	188+0.785	188+0.785	0	20	0	20	1 STOPBAR ON FM 784 (EASTBOUND DIRECTION ONLY)
6-9C	FM	37	AT FM 378	800	02	332-0.311	332-0.311	0	12	0	12	1 STOPBAR ON FM 37
6-10C	FM	602	AT FM 1958	1628	02	196+0.082	196+0.082	0	18	0	18	1 STOPBAR ON FM 602
6-11C	FM	1782	AT FM 2301	2698	02	314+0.061	314+0.061	0	18	0	18	1 STOPBAR ON FM 1782
						тот	<b>FAL</b>	400	222	400	222	



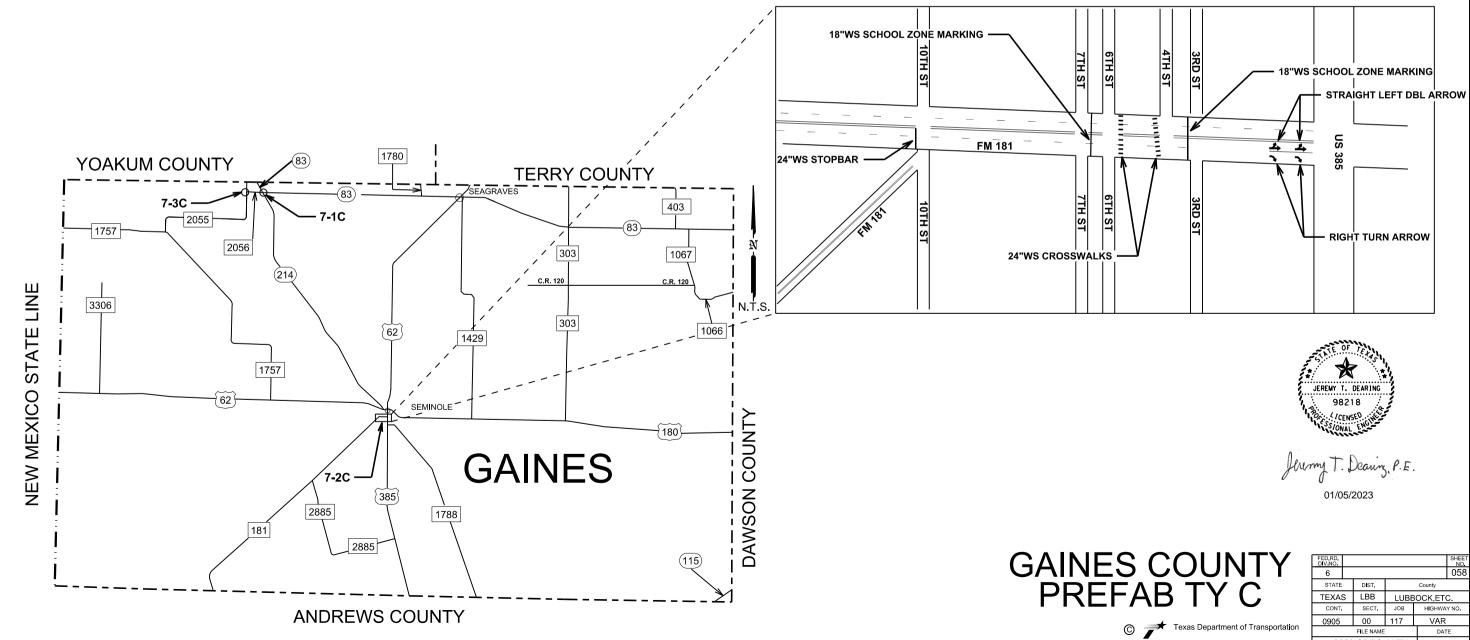


Jeremy T. Dearing, P.E.



FED.RD. DIV.NO.					SHEET NO.						
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TEXA	S	LBB	LUBBOCK,ETC.								
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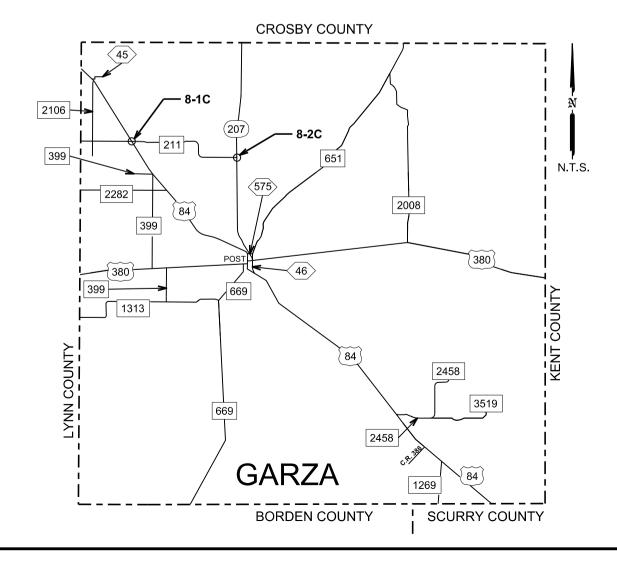
County 7: Gaines	Hwy	Rdwy	Intersection	Cont	Sect	Begin TRM (MI)	End TRM (MI)	18"WS	24"WS	Arrow (Right)	Arrow (DBL) (Straight-Left)	12" ELIM	18" ELIM	24" ELIM	Arrow ( R ) ELIM	Arrow (DBL) (Striaght-Left) ELIM	NOTES
7-1C	SH	214	AT FM 2056	461	09	276-0.835	276-0.835	0	15	0	0	0	0	15	0	0	1 STOPBAR ON FM 2056
7-2C	FM	181	10TH ST INTERSECTION TO US 385 INTERSECTION	961	01	272+0.60	272-0.042	128	175	2	2	250	128	30	2	2	IN SEMINOLE ( 2 CROSSWALKS, 2 SCHOOL ZONE MARKINGS, 1 STOPBAR 2-RIGHT ARROWS, 2-STRAIGHT-LEFT ARROWS)
7-3C	FM	2055	AT FM 2056	1865	02	258-0.744	258-0.744	0	32	0	0	0	0	32			1 STOPBAR ON FM 2056
	1	1	1	1	1	то	TAL	128	222	2	2	250	128	77	2	2	



<b>INES C</b>	OUNTY
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FED.RD. DIV.NO					SHEET NO.					
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STATE		DIST.	County							
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CONT		SECT.	SECT. JOB HIG							
0905		00	117	VAR						
FILE NAME DATE										
2023 SPECIALTY 1/4/2023										

County 8: Garza	Hwy	Rdwy	Intersection	Cont	Sect	Begin TRM (MI)	End TRM (MI)	24"WS	24" ELIM	NOTES
8-1C	US	84	AT FM 211	53	04	348+0.046	348+0.046	40	40	2 STOPBARS ON FM 211
8-2C	SH	207	AT FM 211	453	05	260-0.302	260-0302	20	20	1 STOPBAR ON FM 211
						тот	ΓAL	60	60	



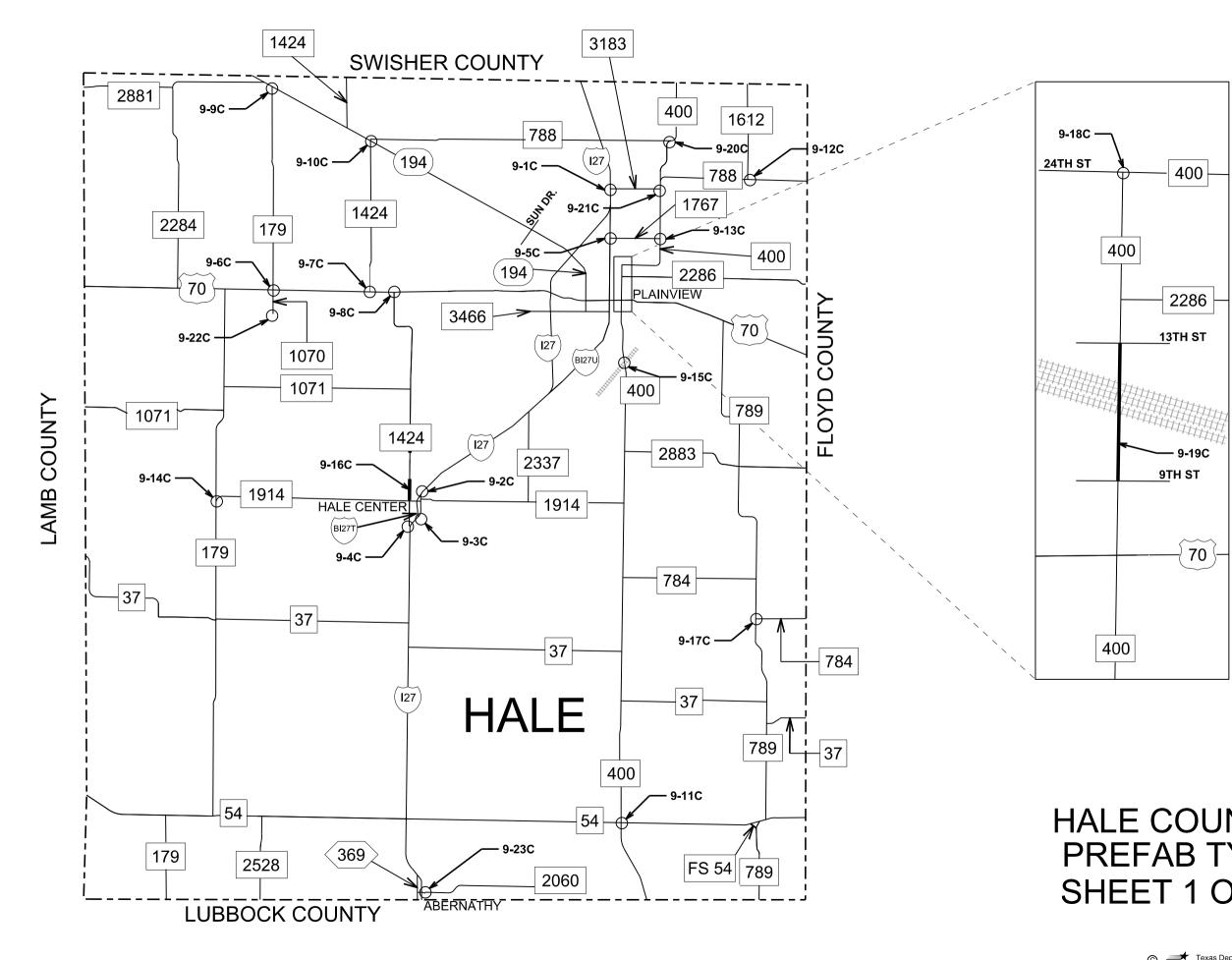




Jeremy T. Dearing, P.E.

01/05/2023

FED RD DIV NO					SHEET NO.						
6											
STATE		DIST.		County							
TEXA	S	LBB	LUBE	с.							
CONT.		SECT.	JOB	HIGHWA	Y NO.						
0905		00	117	VAR							
		FILE NAME		DAT	Έ						
2023	SI	1/4/20	023								





Jeremy T. Dearing, P.E.

N

N.T.S.

01/05/2023

FED.RD. DIV.NO.					SHEET NO.					
6				060						
STATE	ATE DIST. County									
TEXA	TEXAS LBB LUBBOCK,ET									
CONT		SECT.	JOB	HIGHWA	Y NO.					
0905		00	117	VAR						
	E									
2023	023									

# HALE COUNTY PREFAB TY C SHEET 1 OF 2

County 9: Hale	Hwy	Rdwy	Intersection	Cont	Sect	BegIn TRM (MI)	End TRM (MI)	18"WS	24"WS	Arrow (Left)	RR XING	36"W (YLD TRI)	12" ELIM	18" ELIM	24" ELIM	Arrow (L) ELIM	RR XING ELIM	18"YLD TRI ELIM	NOTES
9-1C	н	27	AT FM 3183	67	04	54+0.16	54+0.16	0	110	0	1	0	0	0	110	0	2	0	SEE SHEET 062
9-2C	IH	27	AT BI27T (NORTHEND)	67	05	39-0.027	39-0.027	0	102	0	0	7	0	0	102	0	0	7	AT/UNDER BRIDGE OF IH 27 (4 STOP BARS, 1 YIELI LOCATION)
9-3C	ІН	27	AT BI27T (SOUTHEND)	67	05	38-0.019	38-0.019	0	24	0	0	14	0	0	24	0	0	20	AT/UNDER BRIDGE OF IH 27 (2 STOP BARS, 2 YIELI LOCATIONS)
9-4C	ІН	27	AT FM 1424	67	06	37+0.267	37+0.267	0	24	0	0	0	0	0	24	0	0	0	2 STOPBAR ON FM 1424 UNDER IH 27 BRIDGE
9-5C	BI	27U	AT FM 1767	67	09	170-0.593	170-0.593	0	80	0	2	0	0	0	80	0	2	0	1 STOPBAR AT BI 27U, 4 RR BARS ON FM 1767
9-6C	US	70	AT FM 179 & AT FM 1070	145	04	296-0.604	296-0.604	0	38	0	0	0	0	0	38	0	0	0	1 STOPBAR ON FM 179 SOUTHBOUND, 1 STOPBAF ON FM 1070 NORTHBOUND
9-7C	US	70	AT FM 1424 (NORTH)	145	04	300-0.77	300-0.77	0	18	0	0	0	0	0	18	0	0	0	1 STOPBAR ON FM 1424
9-8C	US	70	AT FM 1424 (SOUTH)	145	04	300+0.299	300+0.299	0	16	0	0	0	0	0	16	0	0	0	1 STOPBAR ON FM 1424
9-9C	SH	194	AT FM 179	439	04	298-0.981	298-0.981	0	24	0	0	0	0	0	24	0	0	0	1 STOPBAR ON FM 179
9-10C	SH	194	AT FM 1424	439	04	302-0.60	302-0.60	0	41	0	0	0	0	0	41	0	0	0	3 STOPBARS ON FM 1424
9-11C	FM	54	AT FM 400	563	06	306+0.788	306+0.788	0	36	0	0	0	0	0	36	0	0	0	2 STOPBARS ON FM 54 (EASTBOUND & WESTBOUND DIRECTIONS ONLY)
9-12C	FM	788	AT FM 1612	800	05	312+0.182	312+0.182	0	11	0	0	0	0	0	11	0	0	0	1 STOPBAR ON FM 1612
9-13C	FM	400	AT FM 1767	800	05	170+0.623	170+0.623	0	16	0	0	0	0	0	16	0	0	0	1 STOPBAR ON FM 1767
9-14C	FM	179	AT FM 1914	880	01	180+0.72	180+0.72	0	16	0	0	8	0	0	16	0	0	0	1 STOPBAR ON FM 1914, 2 YIELD LOCATIONS (NC EXISTING YIELD TRIANGLES)
9-15C	FM	400	AT OAK ST IN PLAINVIEW	1041	01	176-0.622	076-0.622	rr	120	0	3	0	0	0	120	0	3	0	3 RR CROSSING, 6 RR STOPBARS ON FM 400
9-16C	FM	1424	13TH ST TO FM 1914 IN HALE CENTER	1629	04	184+0.792	186-0.758	124	60	0	0	0	124	124	60	0	0	0	2 SCHOOL ZONE MARKINGS, 1 CROSSWALK AT 11TH ST, 2 STOPBAR AT FM 1914
9-17C	FM	784	AT FM 789	1750	04	312-0.808	312-0.808	0	0	0	0	12	0	0		0	0	0	3 YIELD LOCATIONS ON FM 784 (Y INTERSECTION (NO EXISTING MARKINGS)
9-18C	FM	400	AT 24TH ST IN PLAINVIEW	1907	02	172+1.032	172+1.032	0	42	0	0	14	0	0	42	0	0	18	2 STOPBAR LOCATION, 2 YIELD LOCATIONS
9-19C	FM	400	13TH ST TO 9TH ST IN PLAINVIEW	1907	02	174-0.452	174-0.111	0	156	0	4	0	12	0	228	0	4	0	4 RR CROSSING, 8 RR STOPBARS, 1 CROSSWALF AT 9TH ST (INSTALL 24'WS CROSSWALK)
9-20C	FM	400	AT FM 788	1907	02	166+0.644	166+0.644	0	10	0	0	0	0	0	10	0	0	0	1 STOPBAR ON FM 400
9-21C	FM	400	AT FM 3183	1907	02	168+0.601	168+0.601	0	22	0	0	0	0	0	22	0	0	0	1 STOPBAR ON FM 3183
9-22C	FM	1070	AT COUNTY RD. 100	2445	01	170+0.914	170+0.914	0	10	0	0	0	0	0	10	0	0	0	1 STOPBAR AT COUNTY RD. 100
9-23C	FM	2060	IH 27 EAST FR. TO EAST ST	2500	01	296-0.049	296-0.049	0	120	0	2	0	0	0	120	0	2	0	1 STOPBAR ON FM 2060, 6 RR STOPBARS
						тот	TAL	124	1,096	0	12	55	136	124	1,168	0	13	45	

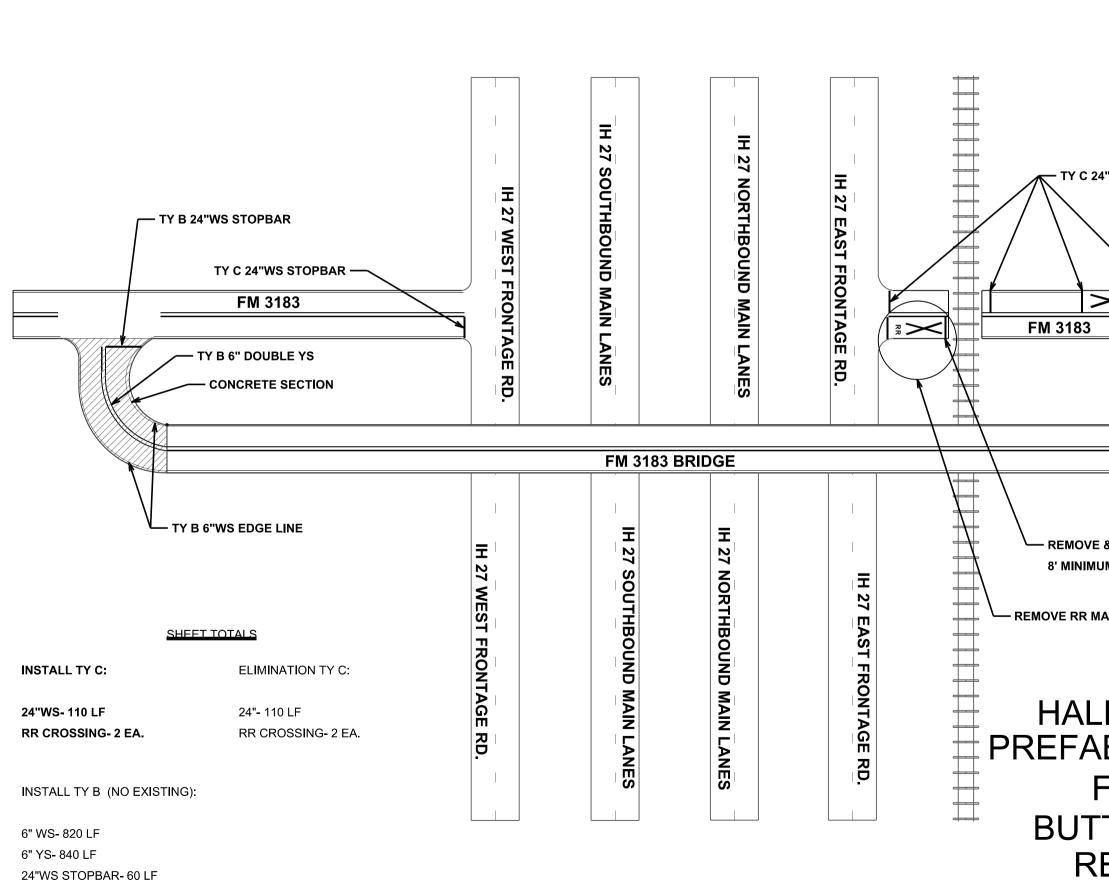


Jeremy T. Dearing, P.E.

01/05/2023

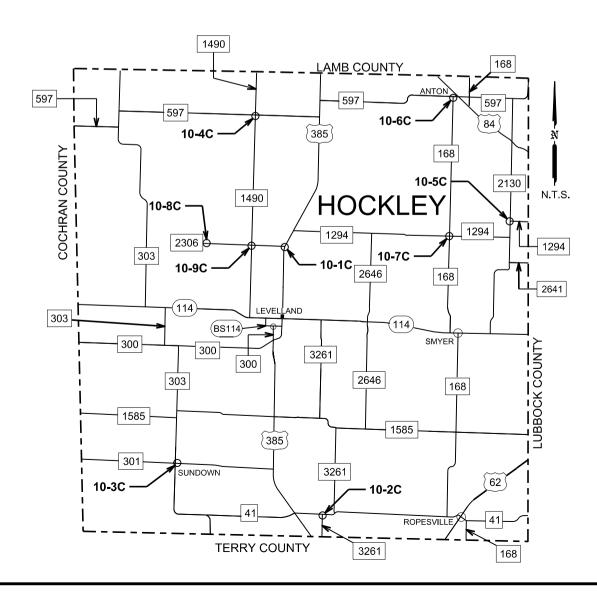
FED RD DIV NO					SHEET NO.				
6					061				
STATE		DIST.	County						
TEXA	s	S LBB LUBBOCK,ET							
CONT.		SECT.	JOB	HIGHWA	Y NO.				
0905		00	117	VAR					
FILE NAME DAT									
2023	3 S	1/4/2	023						

HALE COUNTY PREFAB TY C SHEET 2 OF 2



	N N.T.S
24"WS STOPBAR	
TY B 24"WS STOPBAR	
	— TY B 6" DOUBLE YS
	Y B 6"WS EDGE LINE
CONCRETE SECTION —/ E & REPLACE ONLY 1 STOPBAR AT UM FROM GATE/ARM	
IARKINGS ONLY	JEREMY T. DEARING 98218
E COUNTY	VG:: (/CENSE). (Norman VSS/ONAL ENGE
BTYB&TYC	Jerenny T. Dearing, P.E.
FM 3183	01/05/2023
TON HOOK	FED.RD. SHEET DV.NO. NO.
EF# 9-1C	6         062           STATE         DIST.         County           TEXAS         LBB         LUBBOCK,ETC.
C Texas Department of Transportation	CONT.         SECT.         JOB         HIGHWAY NO.           0905         00         117         VAR           FILE NAME         DATE         DATE
2023	2023 LONGLINE 1/4/2023

County 10: Hockley	Hwy	Rdwy	Intersection	Cont	Sect	Begin TRM (MI)	End TRM (MI)	18" <b>WS</b>	24"WS	12" ELIM	18" ELIM	24" ELIM	
10-1C	US	385	AT FM 2306	227	05	212-0.453	212-0.453	0	20	0	0	20	
10-2C	FM	41	AT FM 3261	645	05	262-0.147	262-0.147	0	18	0	0	18	1 S <sup>-</sup>
10-3C	FM	301	AT FM 303, VEAL AVE, SCHOOL AVE, CITY LIMIT RD.	885	02	256+0.242	256+0.733	60	54	60	60	18	1 S MARKIN S
10-4C	FM	597	AT FM 1490	969	02	266-0.791	266-0.791	0	18	0	0	18	1 STOP
10-5C	FM	1294	AT FM 2130	1866	02	282-0.507	282-0.507	0	16	0	0	16	
10-6C	FM	168	AT FM 597	2334	01	206-1.073	206-1.073	0	22	0	0	22	
10-7C	FM	168	AT FM 1294	2334	01	214+0.028	214+0.028	0	42	0	0	42	3 STO
10-8C	FM	1490	AT HARTFORD RD	2421	02	258-0.047	262+1.525	0	16	0	0	16	
10-9C	FM	1490	AT FM 2306	2904	01	262-0.598	262-0.598	0	44	0	0	44	
1			1			то	TAL	60	250	60	60	214	



1 STOPBAR ON FM 2306

STOPBAR ON FM 3261 (SOUTH)

1 STOPBAR, 2 SCHOOL ZON E KINGS, 1 CROSSWALK ON FM 301 IN SUNDOWN (INSTALL 24"WS CROSSWALK)

OPBAR ON FM 1490 (SOUTHBOUND ONLY)

1 STOPBAR ON FM 1294

1 STOPBAR ON FM 168

TOPBARS ON FM 168 (NORTH SIDE OF FM 1294)

1 STOPBAR ON FM 2306

2 STOPBARS ON FM 1490

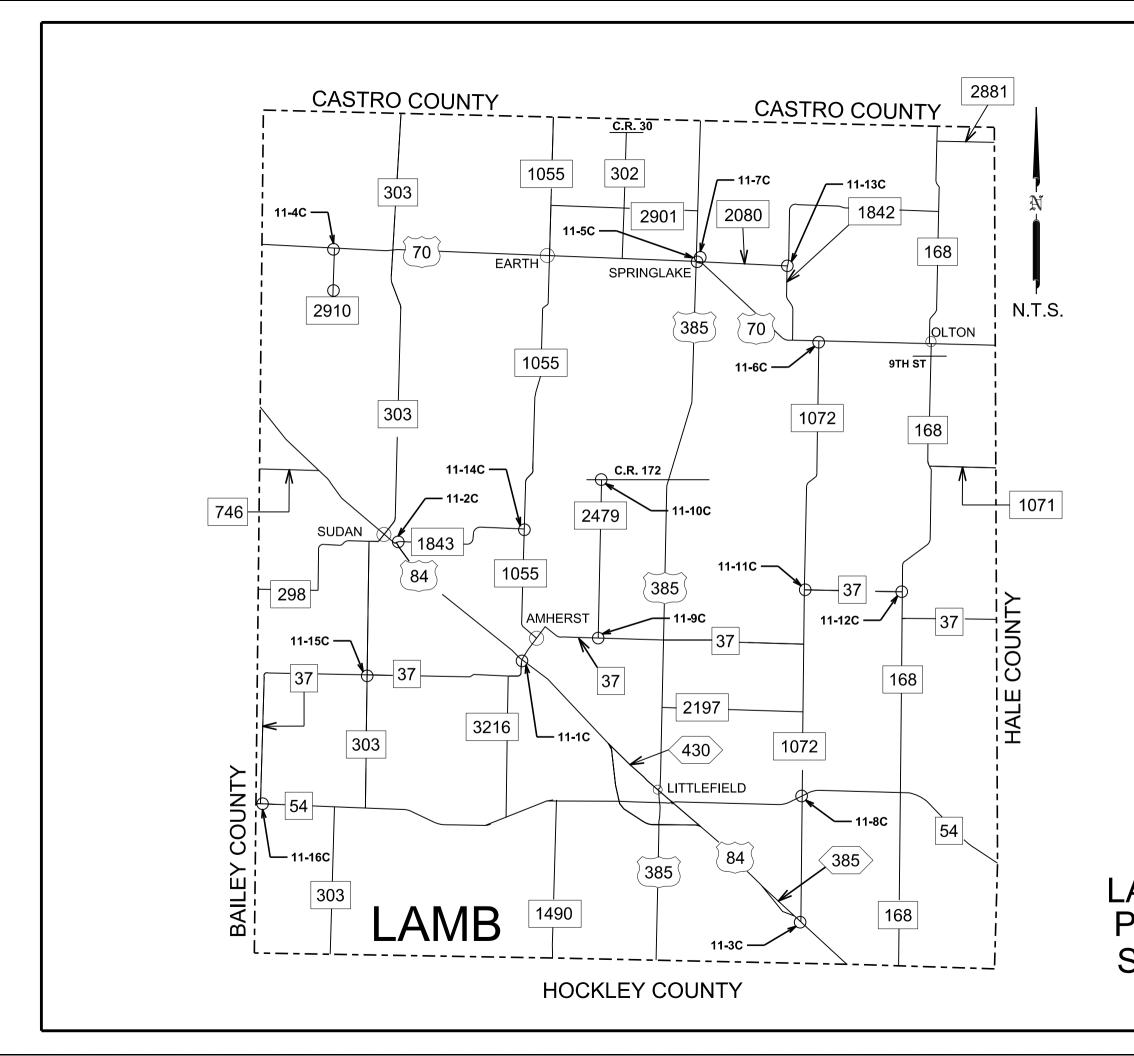


Jeremy T. Dearing, P.E.

01/05/2023

# HOCKLEY COUNTY PREFAB TY C

	FED.RD. DIV.NO.				SHEET NO.
	6				063
	STATE	DIST.	County		
	TEXAS	LBB	LUBE	BOCK,ET	C.
	CONT.	SECT.	JOB	HIGHWA	Y NO.
4	0905	00	117	VAR	
© Texas Department of Transportation		FILE NAME		DAT	re
2023	2023	SPECIAL	_TY	1/4/2	023





Jerenny T. Dearing, P.E.

01/05/2023

# LAMB COUNTY PREFAB TY C SHEET 1 OF 2

FED RD DIV NO					SHEET NO.				
6					064				
STATE		DIST.		County					
TEXA	s	LBB	LUB	BOCK,ET	C.				
CONT		SECT.	JOB	HIGHWA	Y NO.				
0905		VAR							
	re								
2023	1/4/2	023							

County 11: Lamb	Hwy	Rdwy	Intersection	Cont	Sect	Begin TRM E (MI)	End TRM (MI)	24"WS	Arrow (Left)	RR XING	36"W (YLD TRI)	12" ELIM	24" ELIM	Arrow (L) ELIM	RR XING ELIM	36"YLD TRI ELIM	NOTES
11-1C	US	84	AT FM 37 (SOUTH)	52	04	272+0.464 2	272+0.464	22	0	0	0	0	22	0	0	0	1 STOPBAR ON FM 37 (NORTHBOUNE DIRECTION ONLY)
11-2C	US	84	AT FM 1843	52	04	266-0.404 2	266-0.404	118	0	2	0	0	118	0	2	0	1 STOPBAR, 6 RR BARS ON FM 1843
11-3C	US	84	AT FM 1072	52	05	288+0.843 28	288+0.843	100	0	1	22	0	100	0	1	22	1 STOPBAR, 4 RR STOPBARS ON FM 1072 (REMOVE & REPLACE YIELD TRIANGLES IN CROSSOVER)
11-4C	US	70	AT FM 2910	145	02	260-0.811 2	260-0.811	22	0	0	0	0	22	0	0	0	1 STOPBAR ON FM 2910
11-5C	US	70	AT 385	145	03	272+1.692 2	272+1.692	298	8	0	0	152	160	8	0	0	4 STOPBAR, 8 LEFT ARROWS, 1 CROSSWALKS (ALL DIRECTIONS)(REMOVE 12"WS CROSSWALK & INSTALL 24"WS CROSSWALK)
11-6C	US	70	AT FM 1072	145	03	280-0.125 2	280-0.125	18	0	0	0	0	18	0	0	0	1 STOPBAR ON FM 1072
11-7C	US	385	AT FM 2080	227	02	274-0.349 2	274-0.349	12	0	0	0	0	12	0	0	0	1 STOPBAR ON FM 2080
11-8C	FM	54	AT FM 1072	563	04	274+0.738 2	274+0.738	30	0	0	0	0	30	0	0	0	2 STOPBAR ON FM 1072
11-9C	FM	37	AT FM 2479	884	04	270+0.989 2	270+0.989	16	0	0	0	0	16	0	0	0	1 STOPBAR ON FM 2479
11-10C	FM	2479	AT CR. 172	886	02	176-0.014 1	176-0.014	12	0	0	0	0	12	0	0	0	1 STOPBAR ON FM 2479
11-11C	FM	37	AT FM 1072	1252	01	282-0.691 2	282-0.691	18	0	0	0	0	18	0	0	0	1 STOPBAR ON FM 37
1-12C	FM	37	AT FM 168	1252	01	284+1.331 2	284+1.331	22	0	0	0	0	22	0	0	0	1 STOPBAR ON FM 37
11-13C	FM	1842	AT FM 2080	1252	02	276-0.587 2	276-0.587	20	0	0	0	0	20	0	0	0	1 STOPBAR ON FM 2080
11-14C	FM	1055	AT FM 1843	1291	02	176+0.92 1	176+0.92	14	0	0	0	0	14	0	0	0	1 STOPBAR ON FM 1843
11-15C	FM	37	AT FM 303	1631	01	260+0.193 20	260+0.193	24	0	0	0	0	24	0	0	0	2 STOPBAR ON FM 37
1-16C	FM	37	AT FM 54	1631	01	252-1.733 2	252-1.733	12	0	0	0	0	12	0	0	0	1 STOPBAR ON FM 37
						ΤΟΤΑΙ	L	758	8	3	22	152	620	8	3	22	

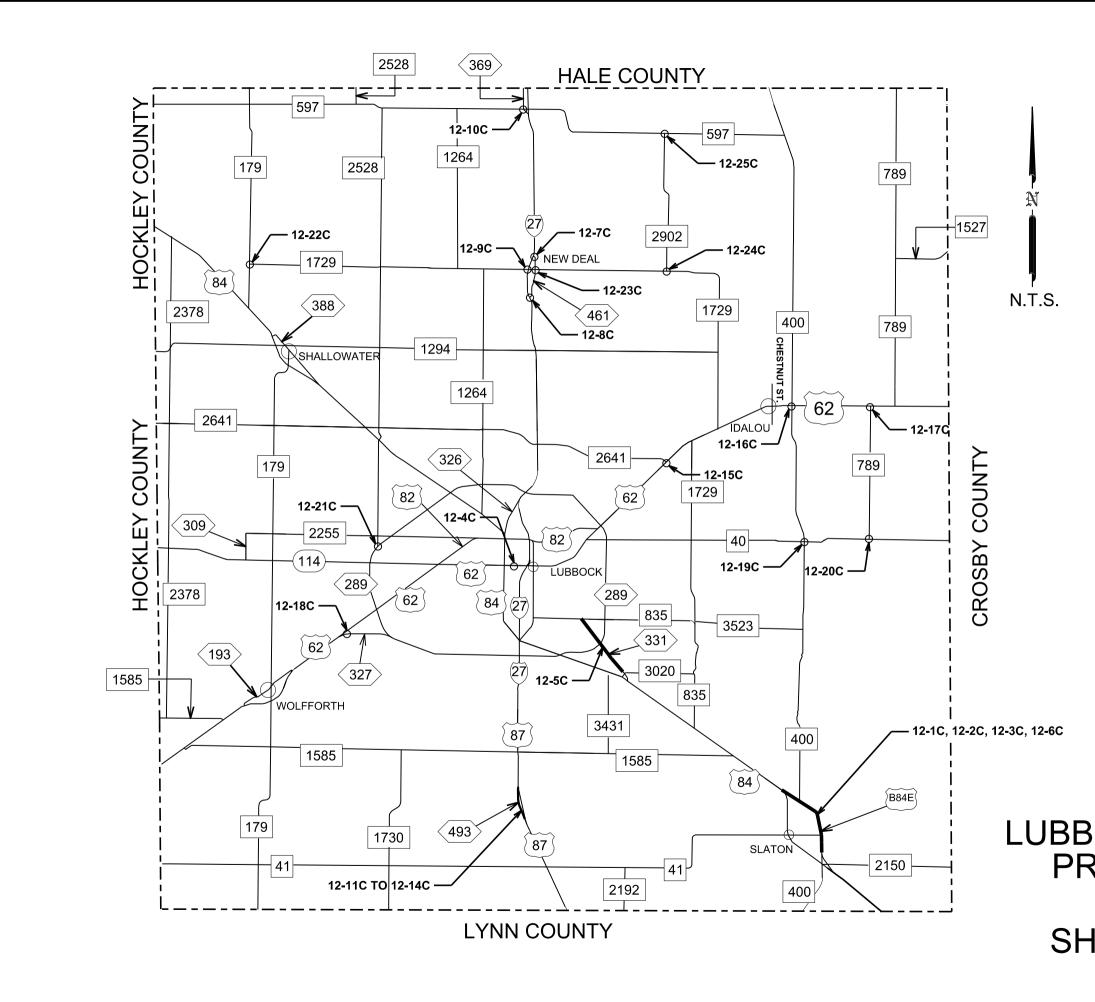


Jeremy T. Dearing, P.E.

01/05/2023

FED.RD. DIV.NO					SHEET NO.				
6					065				
STATE		DIST. County							
TEXA	s	LBB	LUB	BOCK,ET	с.				
CONT		SECT.	JOB	HIGHWA	Y NO.				
0905		00	117	VAR					
	Ë								
2023	1/4/2	023							

# LAMB COUNTY PREFAB TY C SHEET 2 OF 2





Jerenny T. Dearing, P.E.

01/05/2023

FED RD DIV NO					SHEET NO.					
6					066					
STATE		DIST.	County							
TEXA	S	LBB LUBBOCK,ET								
CONT		SECT.	JOB	HIGHWA	Y NO.					
0905		00 117 VAF								
FILE NAME DAT										
202	2023 SPECIALTY 1									

## LUBBOCK COUNTY PREFAB TY C MAP SHEET 1 OF 3

County 12: Lubbock	Hwy	Rdwy	Intersection	Cont	Sect	BegIn TRM (MI)	End TRM (MI)	18"WS	24"WS	Arrow (Left)	Arrow (Right)	Arrow (Straight)	Arrow (DBL) (Stralght-Right)	Arrow (DBL) (Stralght-Left)	Arrow (LNDP)	RR XING	36"W (YLD TRI)	12"YS	Multishleid (US)	NOTES
12-1C	US	84E	AT FM 41	52	19	336+0.41	336+0.41	0	318	1	5	0	0	0	0	0	0	0	0	DO ALL OF INTERSECTION ON BU 84 E ( 4 CROSSWALKS, 4 STOPBARS) (INSTALL 24"WS CROSSWALKS)
12-2C	US	84E	AT GENEVA ST, POWERS ST, JEAN ST, & 9TH ST IN SLATON	52	19	336+0.644	336+0.711	96	82	0	0	0	0	0	0	0	7	0	0	2 SCHOOL ZONE MARKINGS, 1 CROSSWALK, 1 STOPBAR, 1 YIELD LOCATION (INSTALL 24"WS CROSSWALK)
12-3C	US	84E	AT US 84 (NORTH END)	52	19	334-0.109	334-0.109	0	0	0	0	0	0	0	0	0	0	390	0	HASH MARKS ON US 84 E MERGING ONTO US 8 (NO EXISTING MARKINGS)
12-4C	US	82	MSF AT AVE L	53	01	310+0.266	310+0.266	0	26	0	4	0	0	0	0	0	0	0	0	SEE SHEET 037
12-5C	SS	331	50TH ST INTERSECTION TO NEAR FM 3020	53	01	216-0.008	218+0.931	0	192	3	0	0	0	0	0	5	0	0	1	US 84 SHIELD AT FM 3020, 3 ARROWS AT SL 289 RR MARKINGS
12-6C	US	84E	AT FM 400	53	01	334+0.399	334+0.399	0	78	0	0	0	0	0	0	1	0	0	0	1 STOPBAR, 4 RR STOPBARS ON FM 400
12-7C	IH	27	AT FM 461 (NORTH END)	67	07	16-0.230	16-0.23	0	114	2	0	0	0	0	0	0	4	0	0	3 STOPBARS, 2 ARROWS, 1 YIELD LOCATION ON 461
12-8C	н	27	AT FM 461 (SOUTH END)	67	07	14+0.115	14+0.115	0	106	2	0	0	0	0	0	0	7	0	0	3 STOPBARS, 2 ARROWS, 1 YIELD LOCATION Of 461
12-9C	IH	27	AT FM 1729	67	07	15+0.164	15+0.164	0	0	2	0	0	0	0	0	0	0	0	0	2 LEFT ARROWS UNDER IH 27 BRIDGE
12-10C	SL	369	AT FM 597	67	14	196+0.20	196+0.20	0	24	0	0	0	0	0	0	0	0	0	0	1 STOPBAR ON FM 597 (EASTBOUND DIRECTI ONLY)
12-11C	US	87	AT SL 493 (NORTH END)	68	01	278+0.562	278+0.562	0	12	0	0	0	0	0	0	0	0	0	0	1 STOPBAR ON SL 493
12-12C	US	87	AT WOODROW RD	68	01	280+0.766	280+0.766	0	186	1	2	4	5	6	0	0	0	0	0	SEE SHEET LAYOUT 069
12-13C	US	87	AT SL 493 (SOUTH END)	68	07	280-0.403	280-0.403	0	14	0	0	0	0	0	0	0	0	0	0	1 STOPBAR ON SL 493
12-14C	SL	493	AT WOODROW RD	68	14	222+0.566	222+0.566	0	255	2	3	0	4	5	0	0	0	0	0	SEE SHEET LAYOUT 070
12-15C	US	62	AT FM 2641	131	01	338-0.979	338-0.979	0	12	0	0	0	0	0	0	0	0	0	0	1 STOPBAR ON FM 2641
12-16C	US	62	AT FM 400	131	02	342+0.332	342+0.332	0	48	0	0	0	0	0	0	0	0	0	0	2 STOPBARS ON FM 400 (NORTHBOUND & SOUTHBOUND DIRECTION)
12-17C	US	62	AT FM 789 (SOUTH)	131	02	346-0.937	346-0.937	0	22	0	0	0	0	0	0	0	0	0	0	1 STOPBAR ON FM 789 (SOUTH)
12-18C	SS	327 F.R.	NEAR MILWAUKEE AVE.	380	15	286+0.741	286-0.031	0	0	0	0	0	0	0	6	0	0	430	0	YELLOW HASH MARKS ON NORTH FRONTAGE EAST SIDE OF MILWUAKEE AVE, ARROWS WES MILWAUKEE ON FRONTAGE RD. AND BRIDG
12-19C	FM	40	AT FM 400	644	01	304+0.325	304+0.325	0	88	0	0	0	0	0	0	0	0	0	0	4 STOPBARS ON ALL DIRECTIONS
12-20C	FM	40	AT FM 789	644	01	306+0.868	308+0.868	0	22	0	0	0	0	0	0	0	0	0	0	1 STOPBAR ON FM 789
12-21C	SL	289	WEST SL 289 AT FRANKFORD AVE	783	02	291-0.144	291-0.144	0	166	0	0	0	1	0	0	0	0	160	0	SEE SHEET 039
12-22C	FM	179	AT FM 1729	880	03	206+0.045	206+0.045	0	13	0	0	0	0	0	0	0	0	0	0	1 STOPBAR ON FM FM 1729
12-23C	SL	461	AT FM 1729	1632	01	296+0.296	296+0.296	0	16	0	0	0	0	0	0	0	0	0	0	1 STOPBAR ON FM 1729 (EASTBOUND DIRECT ONLY)
12-24C	FM	1729	AT FM 2902	1632	02	302-0.706	302-0.706	0	22	0	0	0	0	0	0	0	0	0	0	1 STOPBAR ON FM 2902
12-25C	FM	597	AT FM 2902	2047	02	306+0.004	306+0.004	0	20	0	0	0	0	0	0	0	0	0	0	1 STOPBAR ON FM 2902
	-	-	I			то	TAL	96	1,836	13	14	4	10	11	6	6	18	980	1	



Journy T. Dearing, P.E.

01/05/2023

### 6 STATE DIST. 067 County TEXAS LBB LUBBOCK,ETC. CONT. SECT. JOB HIGHWAY N 0905 00 117 VAR FILE NAM DATE 2023 SPECIALTY 1/4/2023

# LUBBOCK COUNTY PREFAB TY C SHEET 2 OF 3

County 12: Lubbock	Hwy	Rdwy	Intersection	Cont	Sect	Begin TRM (MI)	End TRM (MI)	12" EL <b>I</b> M	18" ELIM	24" ELIM	Arrow (L) ELIM	Arrow ( R ) ELIN	Arrow (S) ELIM	Arrow (DBL) (Straight-Right) ELIM	Arrow (DBL) (Striaght-Left) ELIM	Arrow (LNDP) ELIM	RR XING ELIM	36"YLD TRI ELIM	NOTES
12-1C	US	84E	AT FM 41	52	19	336+0.41	336+0.41	376	0	318	1	5	0	0	0	0	0	0	DO ALL OF INTERSECTION ON BU 84 E ( 4 CROSSWALKS, 4 STOPBARS) (INSTALL 24"W: CROSSWALKS)
12-2C	US	84E	AT GENEVA ST, POWERS ST, JEAN ST, & 9TH ST IN SLATON	52	19	336+0.644	336+0.711	96	96	28	0	0	0	0	0	0	0	0	2 SCHOOL ZONE MARKINGS, 1 CROSSWALK STOPBAR, 1 YIELD LOCATION (INSTALL 24"W CROSSWALK)
12-3C	US	84E	AT US 84 (NORTH END)	52	19	334-0.109	334-0.109	0	0	0	0	0	0	0	0	0	0	0	HASH MARKS ON US 84 E MERGING ONTO US (NO EXISTING MARKINGS)
12-4C	US	82	MSF AT AVE L	53	01	310+0.266	310+0.266	0	0	26	0	4	0	0	0	0	0	0	SEE SHEET 037
12-5C	SS	331	50TH ST INTERSECTION TO NEAR FM 3020	53	01	216-0.008	218+0.931	0	0	192	3	0	0	0	0	0	0	0	US 84 SHIELD AT FM 3020, 3 ARROWS AT SL 2 RR MARKINGS
12-6C	US	84E	AT FM 400	53	01	334+0.399	334+0.399	0	0	78	0	0	0	0	0	0	1	0	1 STOPBAR, 4 RR STOPBARS ON FM 400
12-7C	IH	27	AT FM 461 (NORTH END)	67	07	16-0.230	16-0.23	0	0	114	2	0	0	0	0	0	0	4	3 STOPBARS, 2 ARROWS, 1 YIELD LOCATION C 461
12-8C	IH	27	AT FM 461 (SOUTH END)	67	07	14+0.115	14+0.115	0	0	106	2	0	0	0	0	0	0	7	3 STOPBARS, 2 ARROWS, 1 YIELD LOCATION C 461
12-9C	ΙH	27	AT FM 1729	67	07	15+0.164	15+0.164	0	0	0	2	0	0	0	0	0	0	0	2 LEFT ARROWS UNDER IH 27 BRIDGE
12-10C	SL	369	AT FM 597	67	14	196+0.20	196+0.20	0	0	24	0	0	0	0	0	0	0	0	1 STOPBAR ON FM 597 (EASTBOUND DIRECT ONLY)
12-11C	US	87	AT SL 493 (NORTH END)	68	01	278+0.562	278+0.562	0	0	12	0	0	0	0	0	0	0	0	1 STOPBAR ON SL 493
12-12C	US	87	AT WOODROW RD	68	01	280+0.766	280+0.766	0	0	186	1	2	4	5	6	0	0	0	SEE SHEET LAYOUT 069
12-13C	US	87	AT SL 493 (SOUTH END)	68	07	280-0.403	280-0.403	0	0	14	0	0	0	0	0	0	0	0	1 STOPBAR ON SL 493
12-14C	SL	493	AT WOODROW RD	68	14	222+0.566	222+0.566	292	0	75	2	3	0	4	5	0	0	0	SEE SHEET LAYOUT 070
12-15C	US	62	AT FM 2641	131	01	338-0.979	338-0.979	0	0	12	0	0	0	0	0	0	0	0	1 STOPBAR ON FM 2641
12-16C	US	62	AT FM 400	131	02	342+0.332	342+0.332	0	0	48	0	0	0	0	0	0	0	0	2 STOPBARS ON FM 400 (NORTHBOUND 8 SOUTHBOUND DIRECTION)
12-17C	US	62	AT FM 789 (SOUTH)	131	02	346-0.937	346-0.937	0	0	22	0	0	0	0	0	0	0	0	1 STOPBAR ON FM 789 (SOUTH)
12-18C	SS	327 F.R.	NEAR MILWAUKEE AVE.	380	15	286+0.741	286-0.031	430	0	0	0	0	0	0	0	6	0	0	YELLOW HASH MARKS ON NORTH FRONTAGE EAST SIDE OF MILWUAKEE AVE, ARROWS WES MILWAUKEE ON FRONTAGE RD. AND BRIDO
12-19C	FM	40	AT FM 400	644	01	304+0.325	304+0.325	0	0	88	0	0	0	0	0	0	0	0	4 STOPBARS ON ALL DIRECTIONS
12-20C	FM	40	AT FM 789	644	01	306+0.868	308+0.868	0	0	22	0	0	0	0	0	0	0	0	1 STOPBAR ON FM 789
12-21C	SL	289	WEST SL 289 AT FRANKFORD AVE	783	02	291-0.144	291-0.144	200	0	34	0	0	0	0	0	0	0	0	SEE SHEET 039
12-22C	FM	179	AT FM 1729	880	03	206+0.045	206+0.045	0	0	13	0	0	0	0	0	0	0	0	1 STOPBAR ON FM FM 1729
12-23C	SL	461	AT FM 1729	1632	01	296+0.296	296+0.296	0	0	16	0	0	0	0	0	0	0	0	1 STOPBAR ON FM 1729 (EASTBOUND DIREC ONLY)
12-24C	FM	1729	AT FM 2902	1632	02	302-0.706	302-0.706	0	0	22	0	0	0	0	0	0	0	0	1 STOPBAR ON FM 2902
12-25C	FM	597	AT FM 2902	2047	02	306+0.004	306+0.004	0	0	20	0	0	0	0	0	0	0	0	1 STOPBAR ON FM 2902
			1			то	TAL	1,394	96	1,470	13	14	4	9	11	6	1	11	

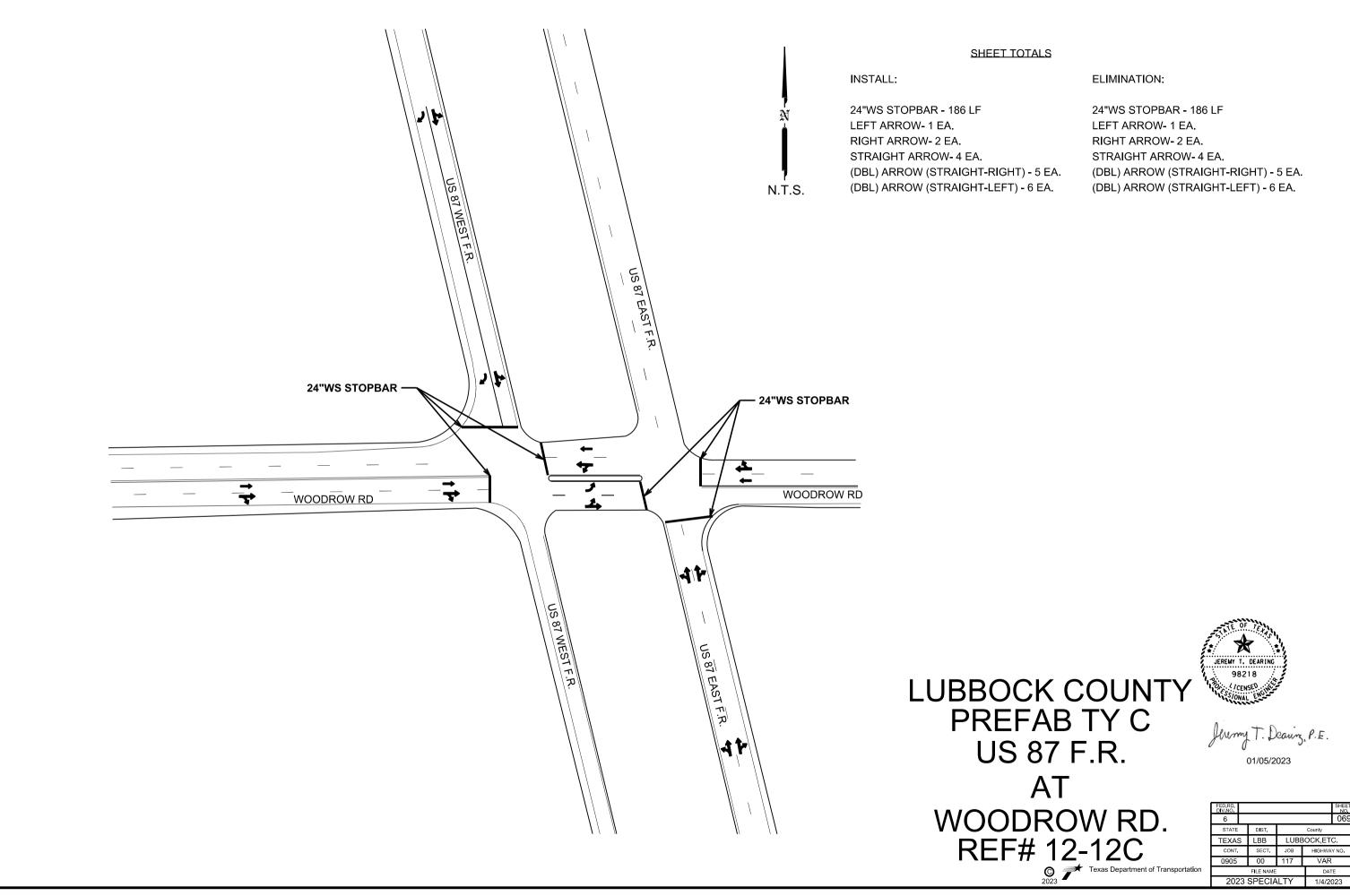


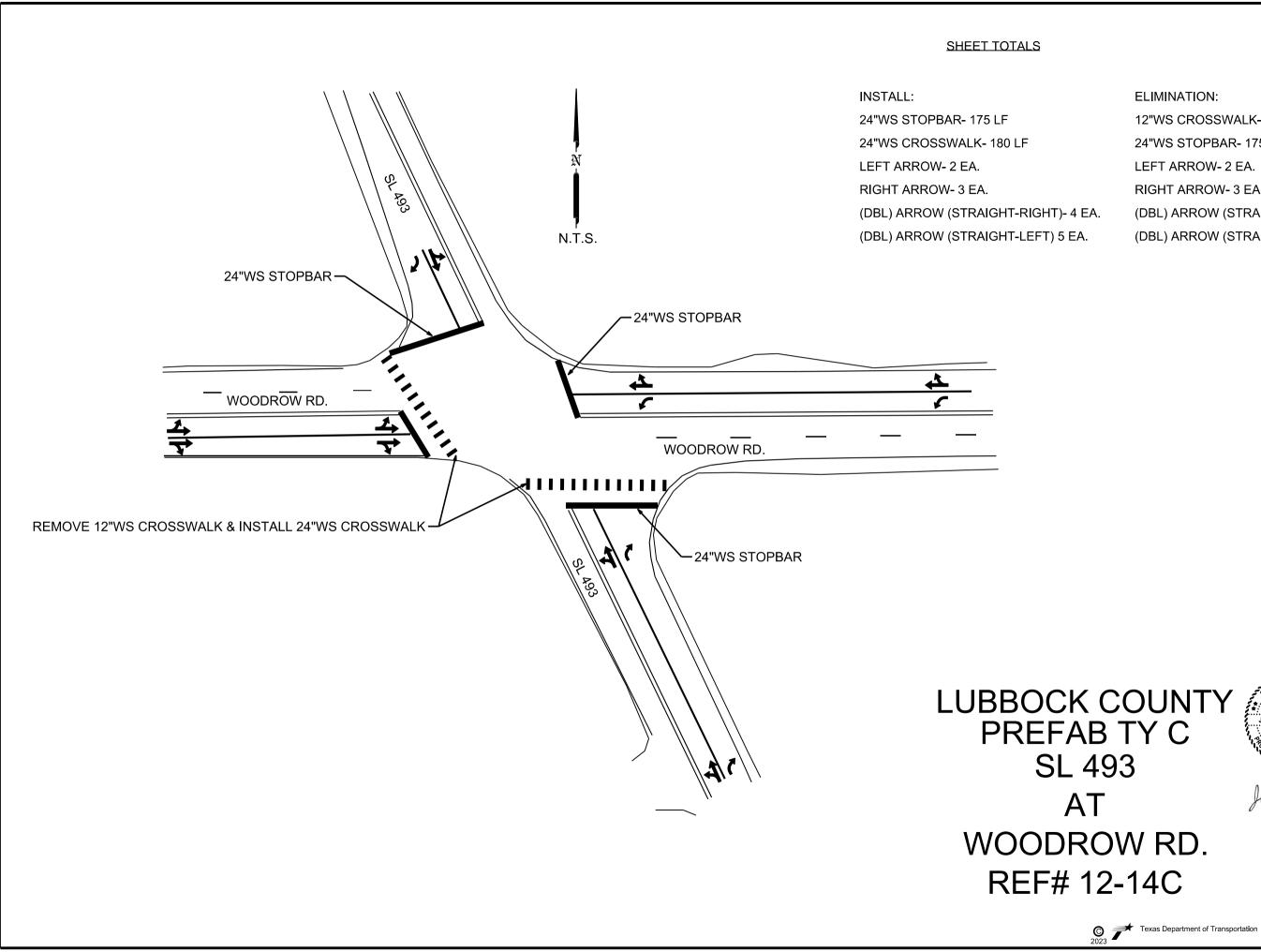
Jermy T. Dearing, P.E.

01/05/2023

## LUBBOCK COUNTY PREFAB TY C SHEET 3 OF 3 © Texas Department of Transportation

FED.RD. DIV.NO.					SHEET NO.					
6					068					
STATE		DIST. County								
TEXA	S	LBB	LUBE	C.						
CONT		SECT.	JOB	HIGHWA	Y NO.					
0905		00	117	VAR						
	FILE NAME DAT									
202	1/4/2	023								





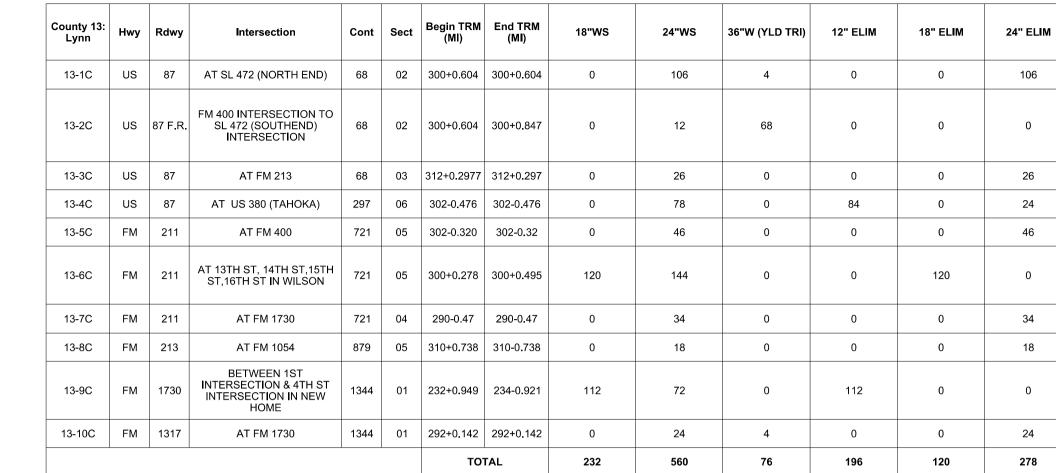
	ELIMINATION:
	12"WS CROSSWALK- 292 LF
	24"WS STOPBAR- 175 LF
	LEFT ARROW- 2 EA.
	RIGHT ARROW- 3 EA.
iHT)- 4 EA.	(DBL) ARROW (STRAIGHT-RIGHT)- 4 EA.
T) 5 EA.	(DBL) ARROW (STRAIGHT-LEFT) 5 EA.

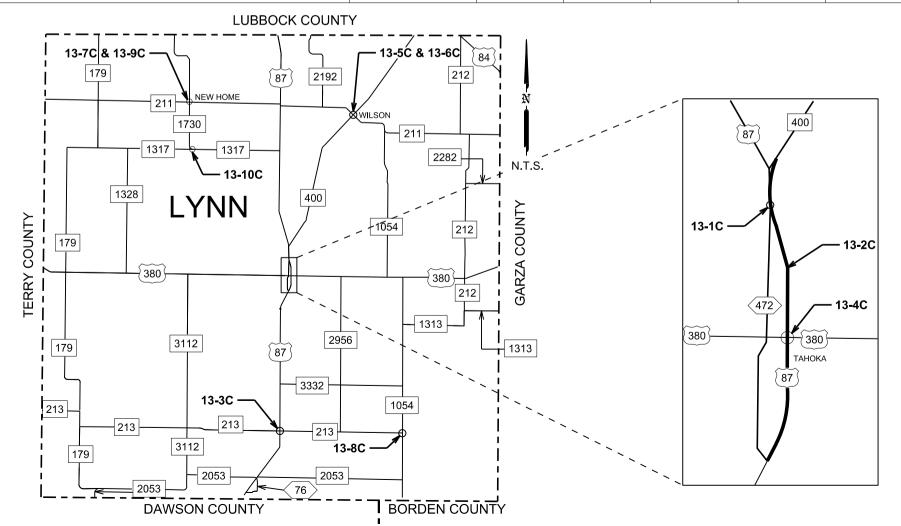


Jeremy T. Dearing, P.E.

01/05/2023

FED.RD. DIV.NO.				SHEET NO.							
6											
STATE		DIST.		County							
TEXA	S	LBB	LUBE	BOCK,ET	C.						
CONT.		SECT.	JOB	HIGHWA	Y NO.						
0905		00	117	VAR							
	DAT	E									
202	23	SPECIA	<b>LTY</b>	1/4/20	023						





36"YLD TRI ELIM	NOTES
4	3 STOPBARS, 1 YIELD LOCATION ON SL 472 IN TAHOKA
68	1 STOPBAR AT SL 472 (SOUTH END), ALL YIELD LOCATIONS STARTING FROM FM 400 TO SL 472 ON FRONTAGE RDS NORTHBOUND & SOUTHBOUND
0	1 STOPBAR ON FM 213 (WESTBOUND DIRECTION ONLY)
0	SEE SHEET 042
0	2 STOPBARS ON FM 211
0	2 SCHOOL ZONE MARKINGS, 2 CROSSWALKS( REMOVE 12"WS CROSSWALK & INSTALL 24"WS CROSSWALK)
0	2 STOPBARS ON FM 1730 (NORTHBOUND & SOUTHBOUND
0	1 STOPBAR ON FM 213
0	2 SCHOOL ZONE MARKINGS, 1 CROSSWALK (REMOVE 12"WS & INSTALL 24"WS CROSSWALK)
4	2 STOPBARS ON FM 1730 & 1 YIELD LOCATION
76	

\* JEREMY T. DEARING 98218 (ICENSES

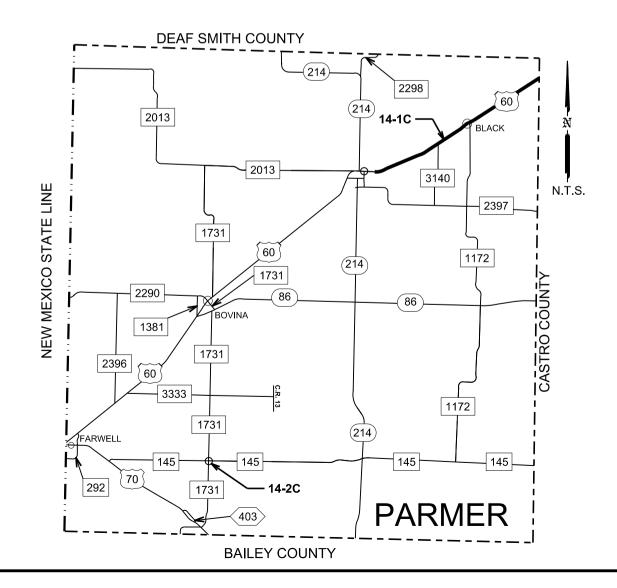
Jeumy T. Dearing, P.E.

01/05/2023



FED.RD. DIV.NO					SHEET NO.			
6			071					
STATE		DIST.		County				
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CONT.		SECT.	JOB	HIGHWA	Y NO.			
0905		00	117	VAR				
	DAT	E						
2023	3 S	PECIAL	TY	1/4/2	023			

County 14: Parmer	Hwy	Rdwy	Intersection	Cont	Sect	Begin TRM (MI)	End TRM (MI)	24"WS	Arrow (Left)	36"W (YLD TRI)	24" ELIM	Arrow (L) ELIM	
14-1C	US	60	AT EACH CROSSOVER FROM FRIONA TO CASTRO CO. LINE	168	03	240-0.492	266+0.017	94	136	11	94	136	INCLUDE 4 S LOCATION IN
14-2C	FM	145	AT FM 1731	754	01	236+0.375	236+0.375	16	0	0	16	0	1 STOPBAR O DIRE
						тот	ſAL	110	136	11	110	136	





# NOTES

4 STOPBARS, 1 YIELD IN BLACK NEAR FM 1731

R ON FM 145 (EASBOUND RECTION ONLY)

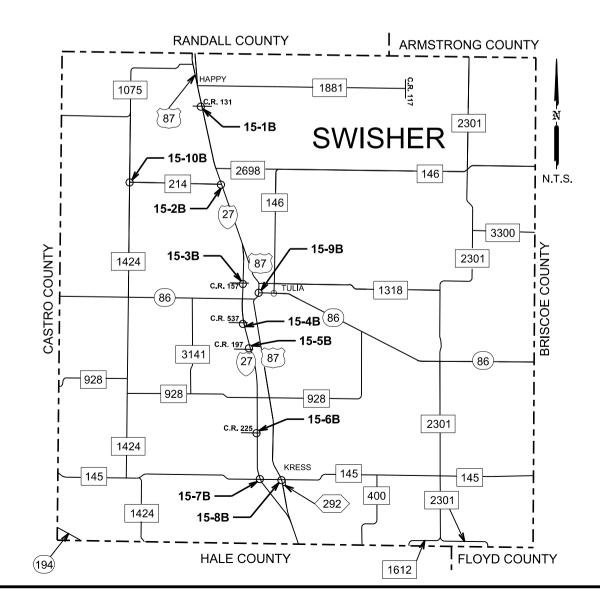


flremy T. Dearing, P.E.

01/05/2023

FED.RD. DIV.NO					SHEET NO.
6					072
STATE		DIST.			
TEXAS	S	LBB	LUBE	BOCK,ET	C.
CONT.		SECT.	JOB	HIGHWA	Y NO.
0905		00	117	VAR	
		DAT	re		
202	23 :	SPECIA	LTY	1/4/2	023

County 15: Swisher	Hwy	Rdwy	Intersection	Cont	Sect	BegIn TRM (MI)	End TRM (MI)	24"WS	RR XING	12" ELIM	24" ELIM	RR XING ELIM	NOTES
15-1B	ін	27	AT COUNTY RD 131	67	02	86+0.404	86+0.404	114	1	0	114	2	SEE SHEET 074
15-2B	ін	27	AT FM 214	67	02	82+0.158	82+0.158	84	1	0	84	2	SEE SHEET 075
15-3B	ін	27	AT COUNTY RD 157	67	03	76-0.231	76-0.231	70	0	0	70	0	SEE SHEET 076
15-4B	ін	27	AT COUNTY RD 537	67	03	74-0.334	74-0.334	56	0	0	56	0	SEE SHEET 077
15-5B	ІН	27	AT COUNTY RD 197	67	03	70+0.441	70+0.441	60	0	0	60	0	SEE SHEET 078
15-6B	ін	27	AT COUNTY RD. 225	67	03	66+0.331	66+0.331	64	0	0	64	0	SEE SHEET 079
15-7B	н	27	AT FM 145	67	03	63+0.155	63+0.155	66	0	0	66	0	SEE SHEET 080
15-8B	US	87	AT FM 145	67	18	208-0.766	208-0.766	14	0	0	14	0	1 STOPBAR ON FM 145 (EASTBOUND DIRECTION ONLY)
15-9B	US	87	AT SH 86 IN TULIA	67	18	196-0.67	196-0.67	22	0	0	0	0	1 STOPBAR ON SH 86 (WESTBOUND DIRECTION)
15-10B	FM	214	AT FM 1424	755	04	292-0.045	292-0.045	12	0	0	12	0	1 STOPBAR ON FM 214
						тот	ſAL	562	2	0	540	4	



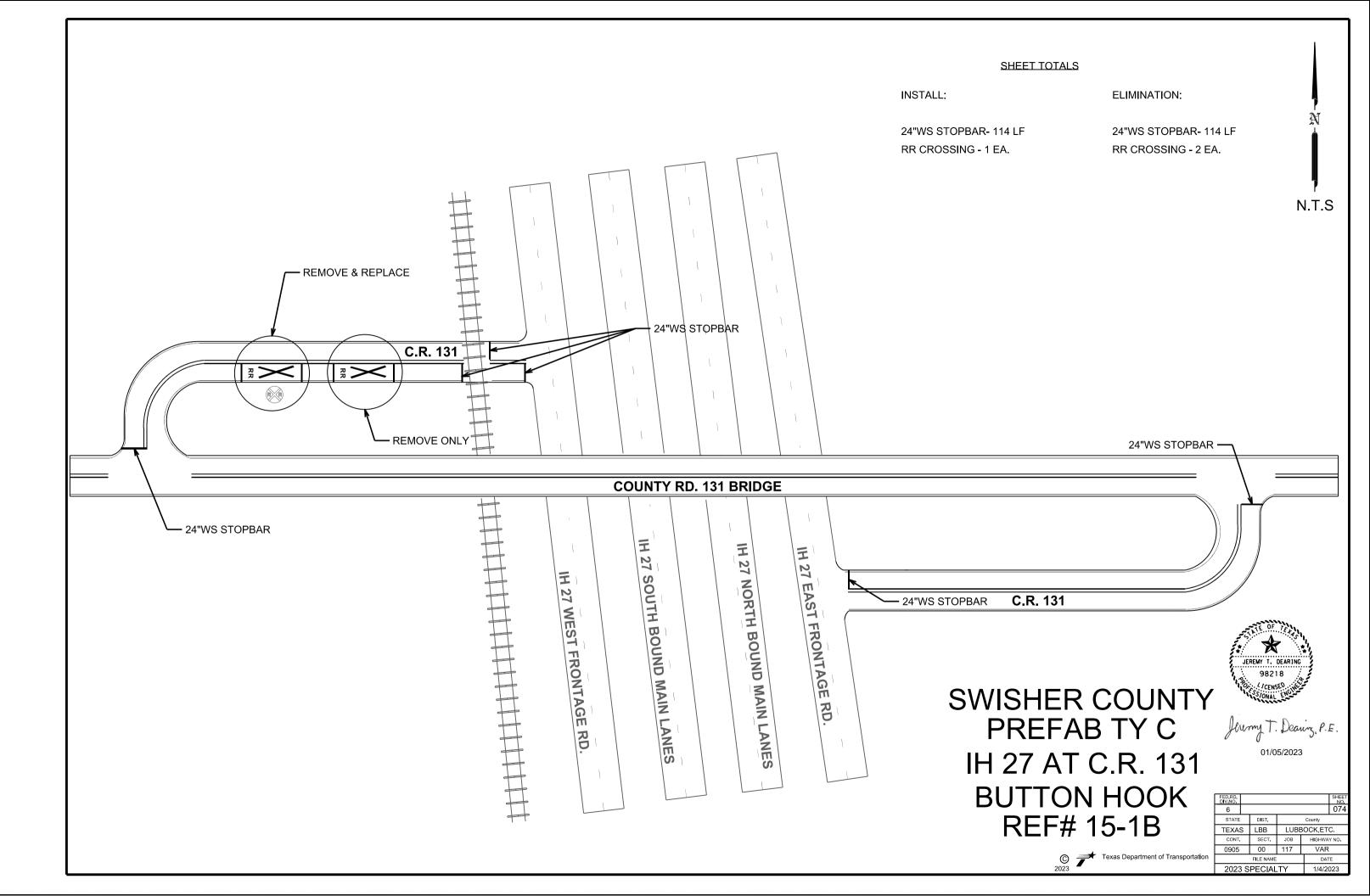


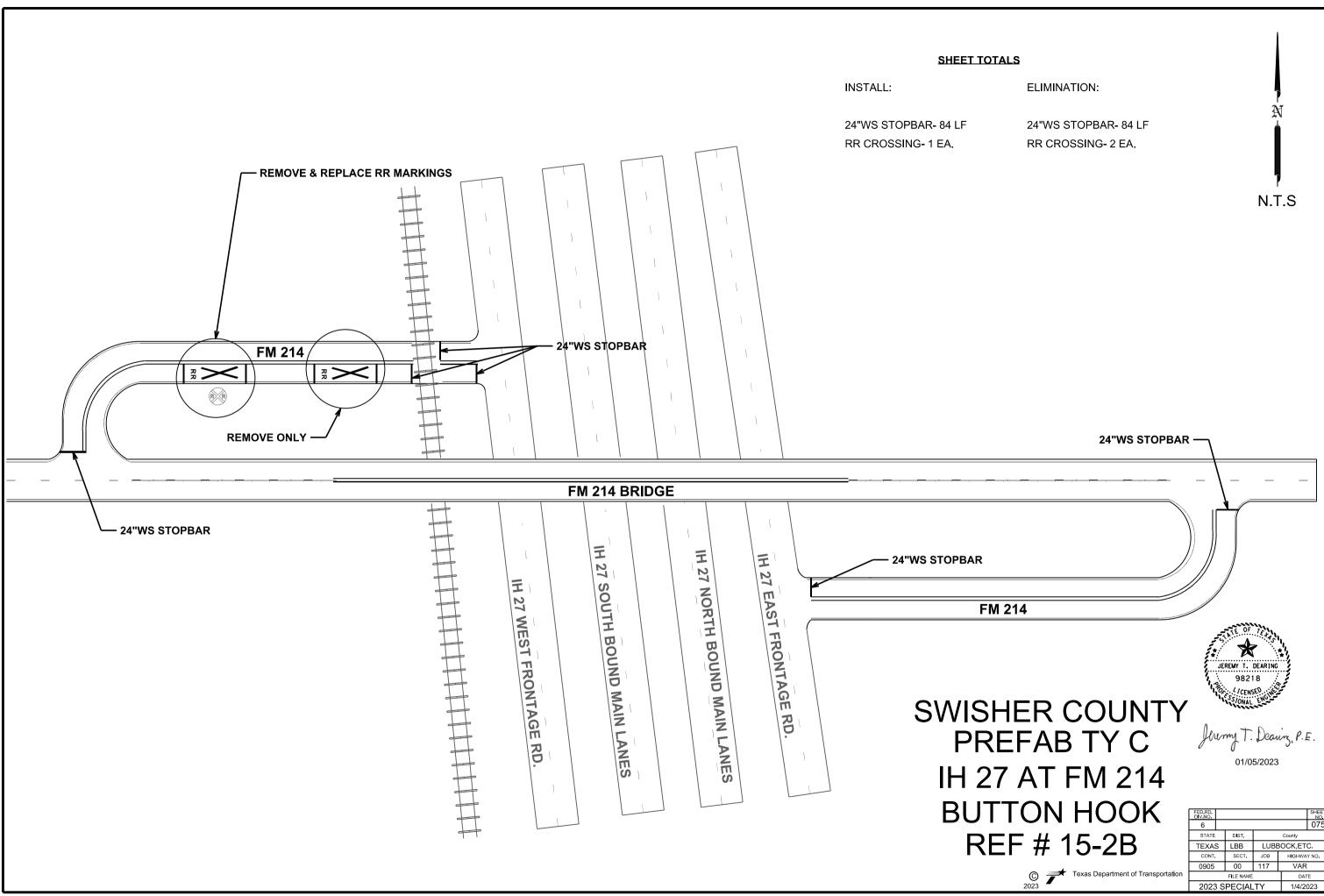
X JEREMY T. DEARING 98218 (ICENSED

Jeremy T. Dearing, P.E.

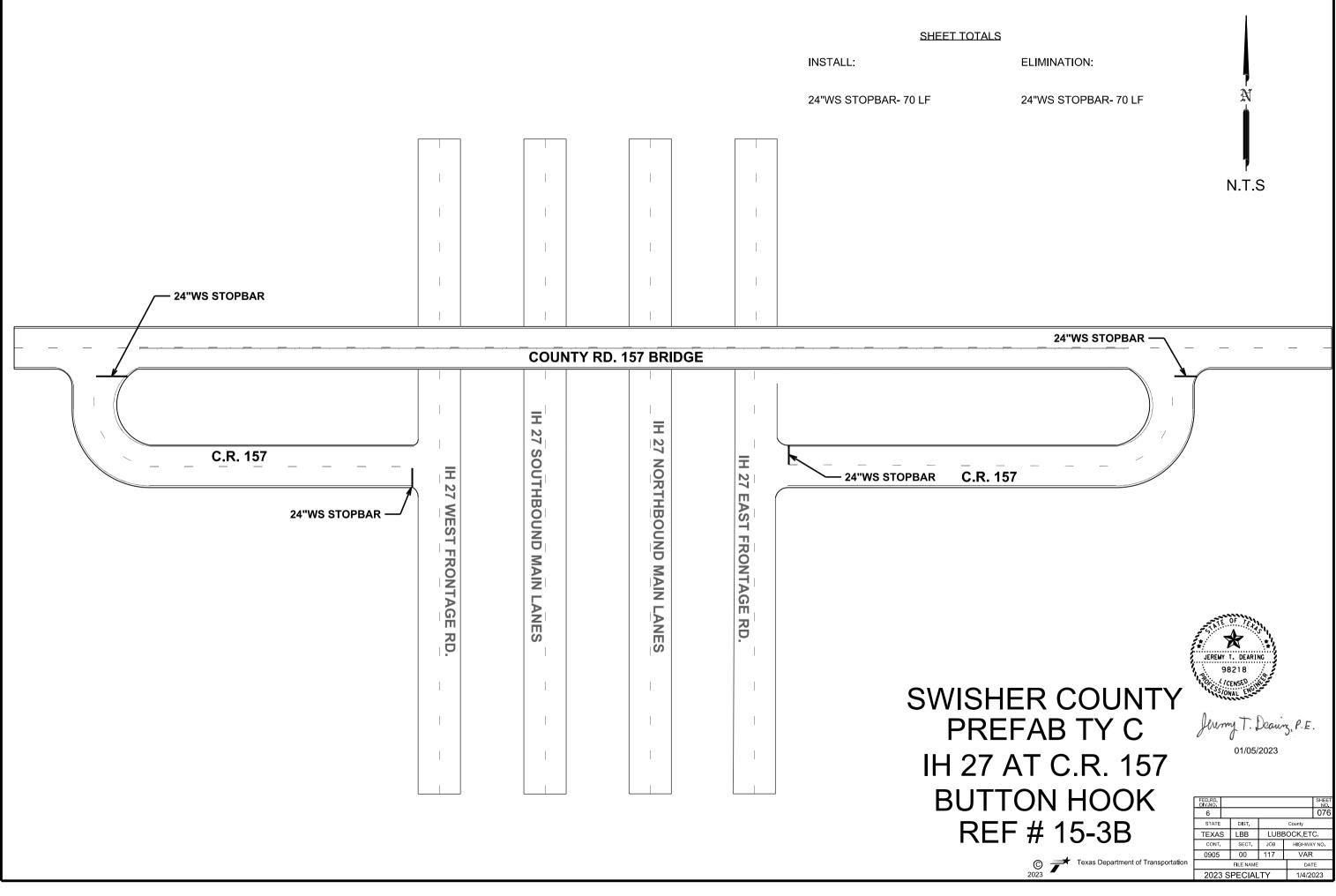
01/05/2023

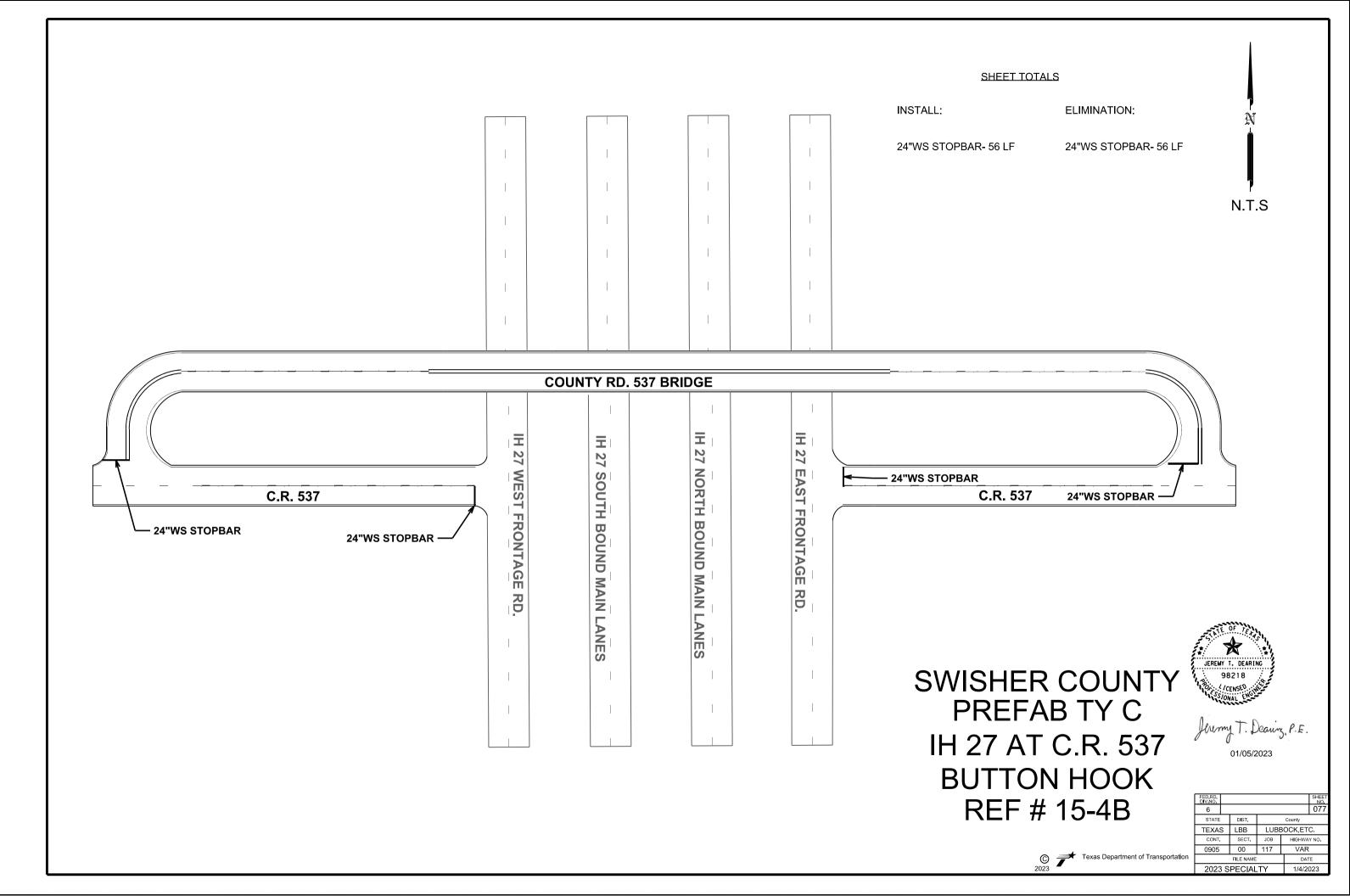
SHER COUNTY	FED.RD. DIV.NO.				SHEET NO. 073
	STATE	DIST.		County	
	TEXAS	LBB	LUBE	BOCK,ET	C.
	CONT.	SECT.	JOB	HIGHWA	Y NO.
	0905	00	117	VAR	
C 📝 Texas Department of Transportation	FILE NAME			DAT	E.
2023	2023	SPECIAL	TY	1/4/2	023

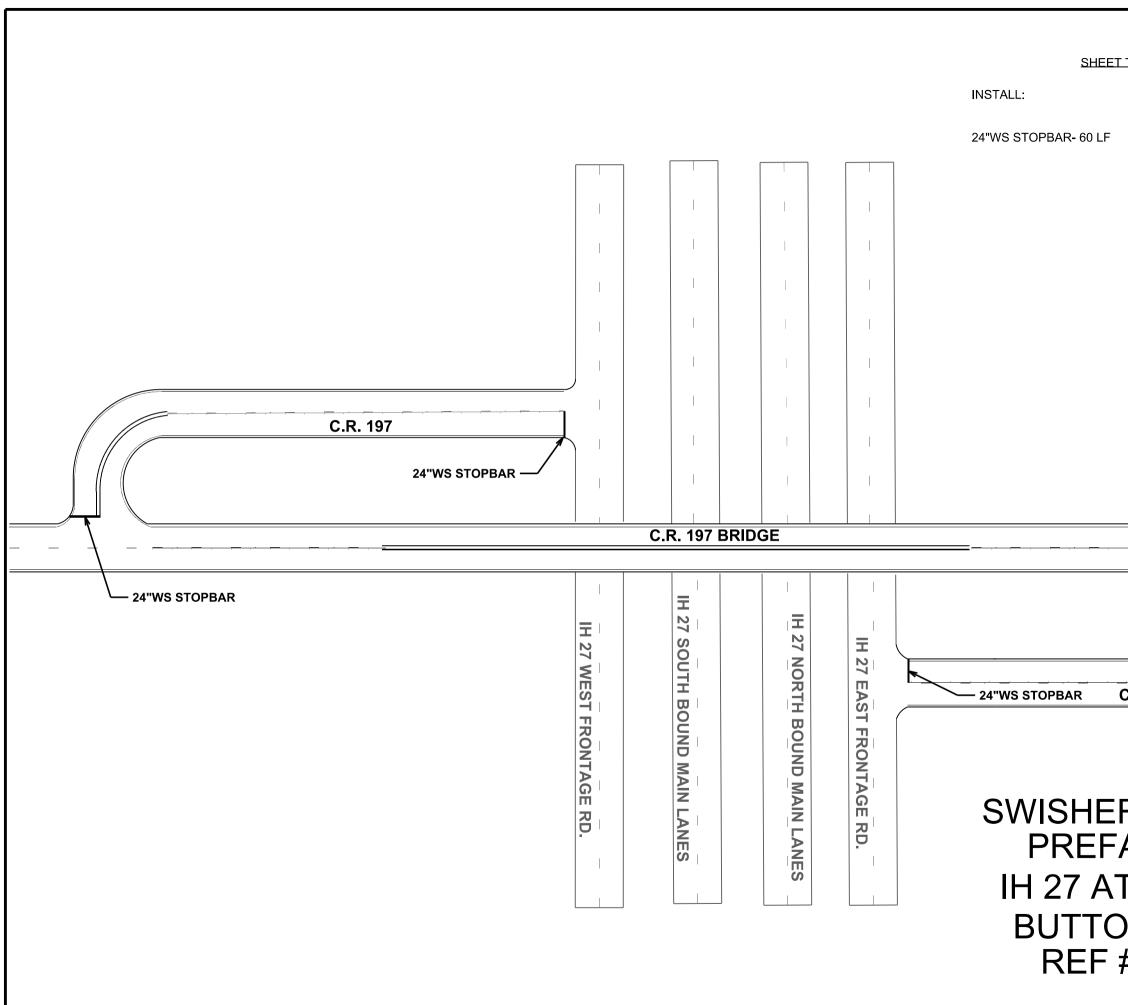












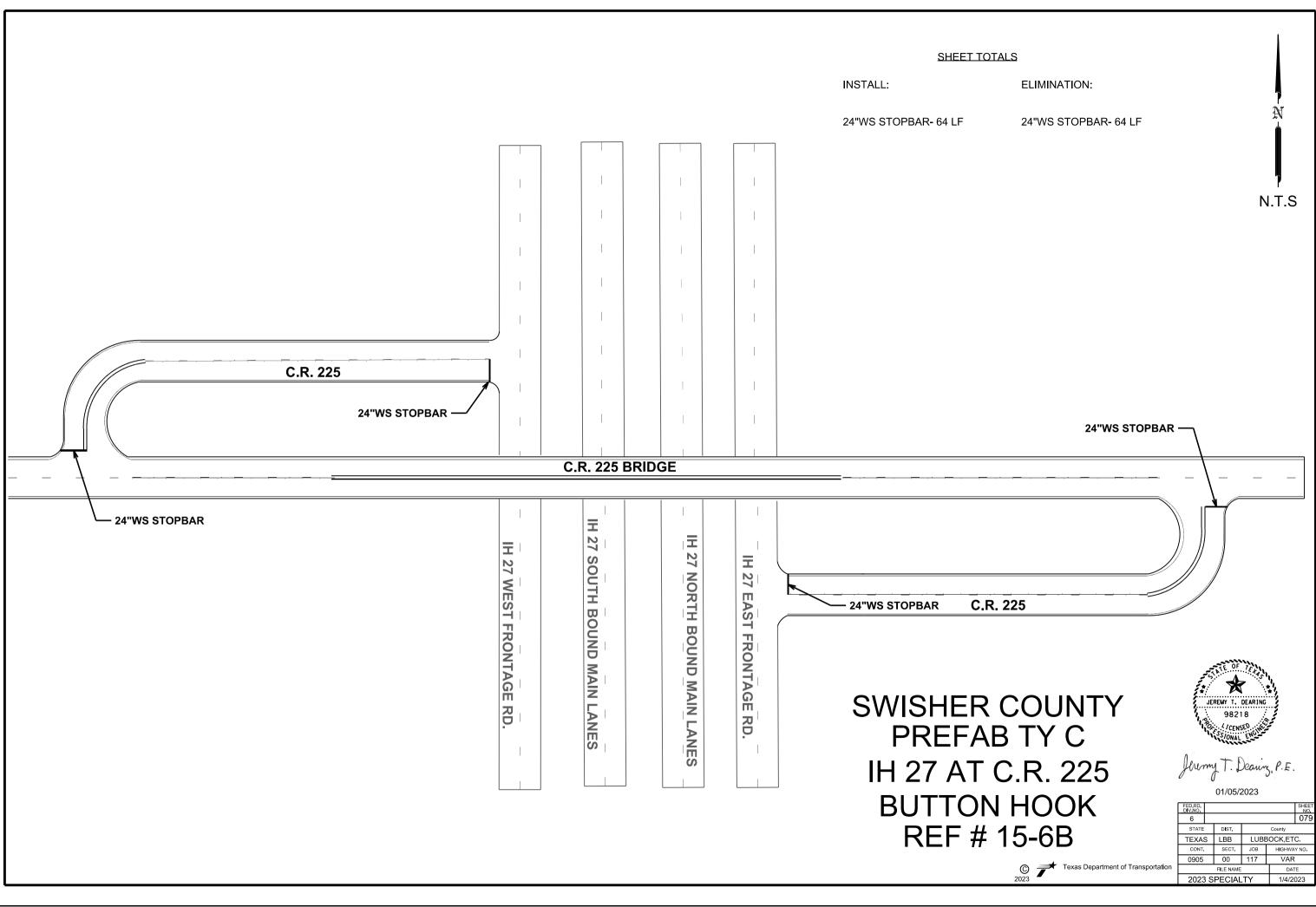
	N	) .T.S
24"WS STOPBAR		_
C.R. 197	JEREMY T. DEARING 98218	
FAB TY C AT C.R. 197 ON HOOK	Jeurmy T. Deau 01/05/2023	т. Р.Е. <u>энеет</u> 078
E # 15-5B © <sup>™</sup> Texas Department of Transportation	STATE DIST.	County OCK,ETC. HIGHWAY NO. VAR DATE 1/4/2023

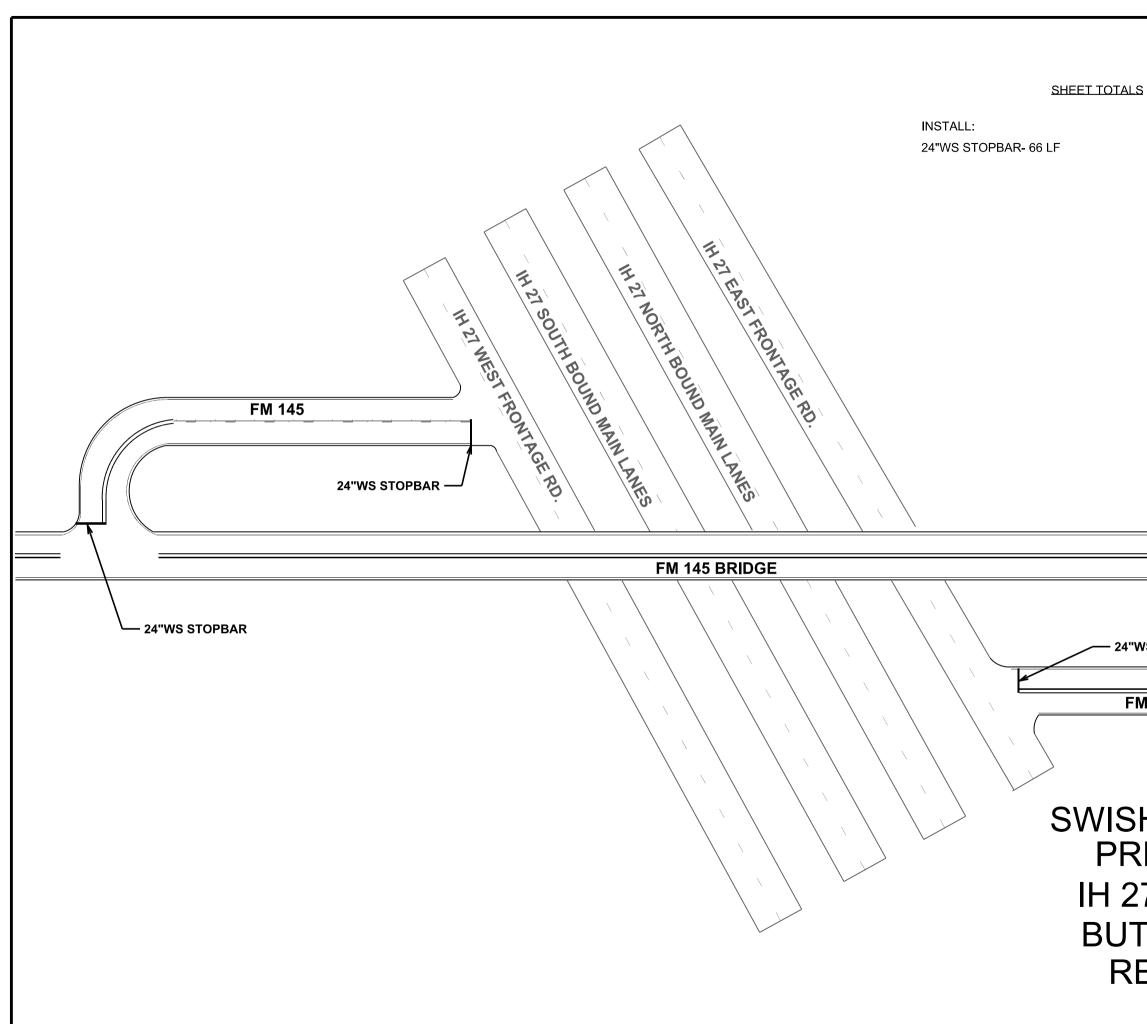
SHEET TOTALS

ELIMINATION:

24"WS STOPBAR- 60 LF

N





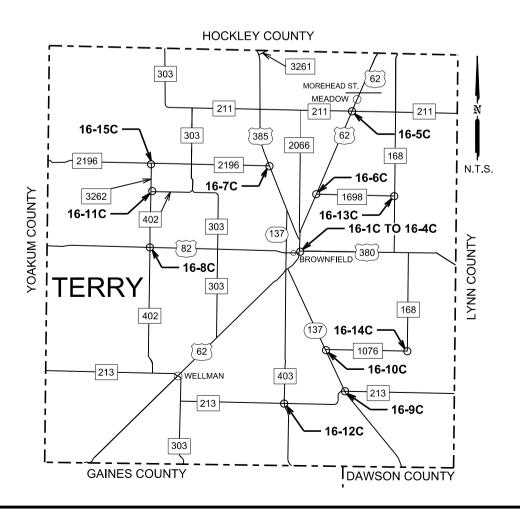
24"WS STOPBAR	$\neg$		
24"WS STOPBAR			
FM 145			
SHER COUNTY PREFAB TY C 27 AT FM 145 JTTON HOOK REF # 15-7B	JERENT T. JERENT T. 982 UCER 983 UCER 90 UCER 90 00 00 00 00 00 00 00 00 00 00 00 00	Dean	3, P.E. SHEET NO. 080 County BOCK,ETC. HIGHWAY NO.
O Texas Department of Transportation	0905 00 FILE NAM 2023 SPECIA		VAR DATE 1/4/2023

ELIMINATION: 24"WS STOPBAR- 66 LF

N

N.T.S

County 16: Terry	Hwy	Rdwy	Intersection	Cont	Sect	Begin TRM (MI)	End TRM (MI)	24"WS	Arrow (Left)	Arrow (DBL) (Straight-Right)	RR XING	36"W (YLD TRI)	12" ELIM	24" ELIM	Arrow (L) ELIM	Arrow (DBL) (Straight-Right) ELIM	NOTES
16-1C	US	62	AT MAIN ST IN BROWNFIELD	227	07	286+0.841	286+0.841	126	0	0	0	0	176	30	0	0	SEE SHEET 048
16-2C	US	62	AT US 380 IN BROWNFIELD	227	07	288-0.908	288-0.908	146	2	2	0	0	180	38	2	2	SEE SHEET 049
16-3C	US	62	AT TATE ST. IN BROWNFIELD	228	01	286+0.691	286+0.691	84	0	0	0	0	136	0	0	0	SEE SHEET 050
16-4C	US	62	AT BUCKLEY ST IN BROWNFIELD	228	01	286+0.55	286+0.55	84	0	0	0	0	144	0	0	0	SEE SHEET 051
16-5C	US	62	AT FM 211	227	07	298+0.546	298+0.546	38	0	0	1	0	0	38	0	0	1 STOPBAR ON FM 211, 1 RR CROSSING (WESTBOUND DIRECTION ONLY)
16-6C	US	62	AT FM 1698	227	07	292-0.366	292-0.366	16	0	0	0	0	0	16	0	0	1 STOPBAR ON FM 1698 (WESTBOUND DIRECTION ONLY)
16-7C	US	385	AT FM 2196	227	09	240+0.514	240+0.514	20	0	0	0	0	0	20	0	0	1 STOPBAR ON FM 2196
16-8C	US	82	AT FM 402	297	03	260-0.321	260-0.321	16	0	0	0	0	0	16	0	0	1 STOPBAR ON FM 402 (SOUTHBOUND DIRECTION ONLY)
16-9C	SH	137	AT FM 213	380	04	250+0.335	250+0.335	12	0	0	0	0	0	12	0	0	1 STOPBAR ON FM 213 (EASTBOUND DIRECTION ONLY)
16-10C	SH	137	AT FM 1076	380	04	248-1.038	248-1.038	16	0	0	0	0	0	16	0	0	1 STOPBAR ON FM 1076 (WESTBOUND DIRECTION)
16-11C	FM	402	AT FM 3262	820	05	236+0.819	236+0.819	24	0	0	0	5	0	24	0	0	2 STOPBARS, 1 YIELD LOCATION ON FM 402
16-12C	FM	213	AT FM 403	879	03	272-0.684	272-0.684	26	0	0	0	0	0	26	0	0	1 STOPBAR ON FM 213 (WESTBOUND DIRECTION ONLY)
16-13C	FM	168	AT FM 1698	1630	04	244+0.309	244+0.309	16	0	0	0	0	0	16	0	0	1 STOPBAR ON FM 1698
16-14C	FM	168	AT FM 1076	1630	05	256+0.31	256+0.31	16	0	0	0	0	0	16	0	0	1 STOPBAR ON FM 1076
16-15C	FM	2196	AT FM 3262	3473	01	253-0.318	253-0.318	30	0	0	0	0	0	30	0	0	1 STOPBAR ON FM 3262
1		1	1			тот	ΓAL	670	2	2	1	5	636	298	2	2	





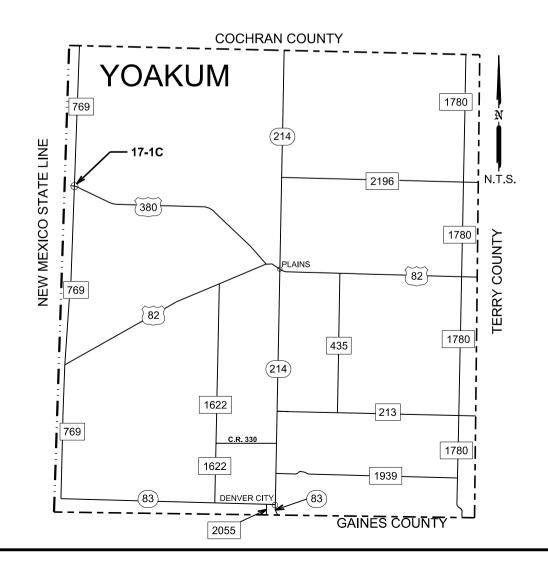


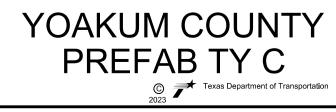
Jerenny T. Dearing, P.E.

01/05/2023

FED RD DIV NO					SHEET NO.						
6		081									
STATE		DIST.		County							
TEXA	s	LBB	LUBBOCK,ETC								
CONT.		SECT.	JOB	HIGHWA	Y NO.						
0905		00	117	VAR							
	DA	re									
2023	3 S	PECIAL	_TY	1/4/2	023						

County 17: Yoakum	Hwy	Rdwy	Intersection	Cont	Sect	Begin TRM (MI)	End TRM (MI)	24''WS	24" ELIM	NOTES
17-1C	US	380	AT FM 769	297	01	224+0.013	224+0.013	26	26	1 STOPBAR ON FM 769 (SOUTHBOUND DIR ONLY)
					-	TO	TAL	26	26	





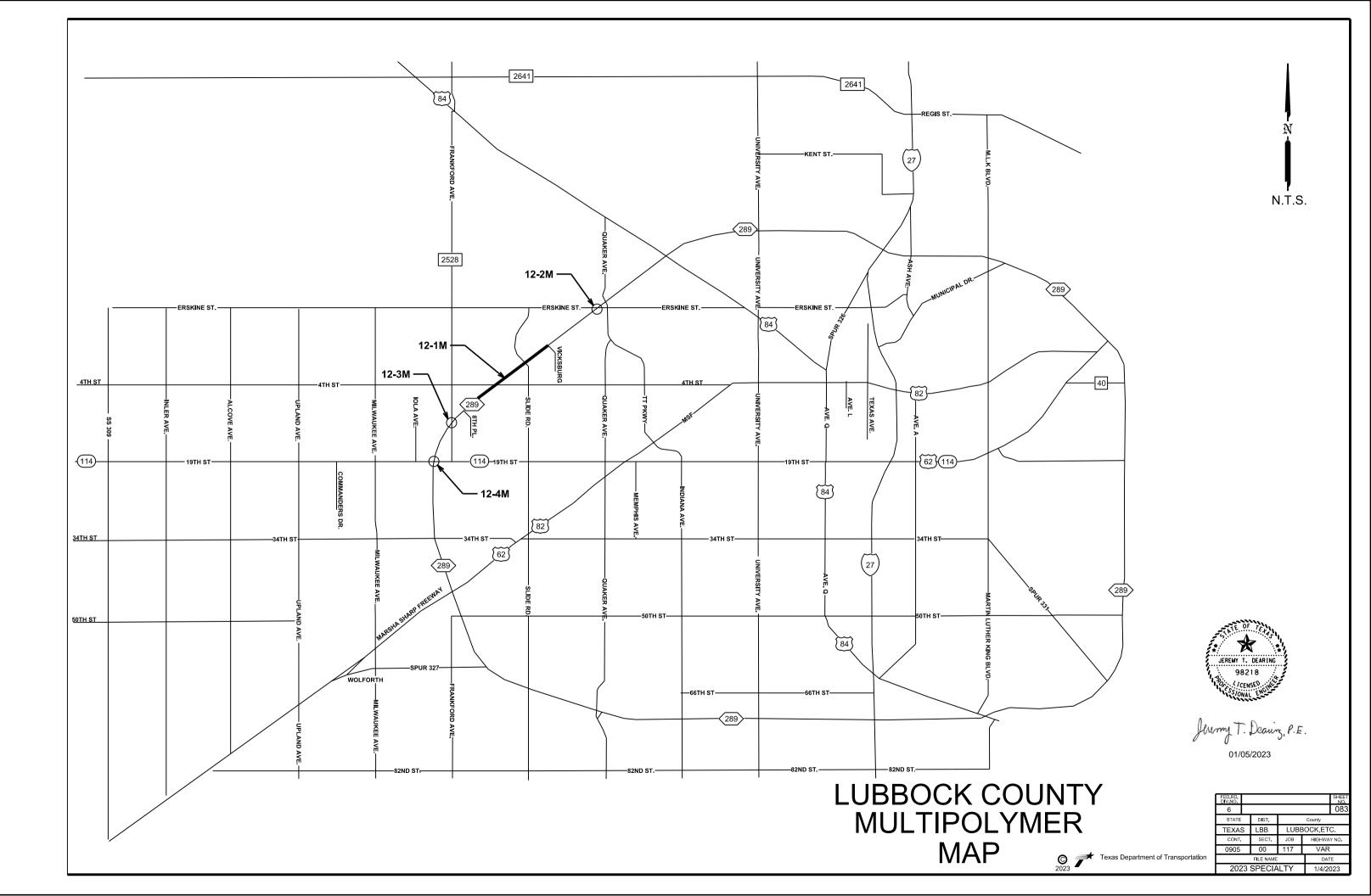




Jerenny T. Dearing, P.E.

01/05/2023

FED.RD. DIV.NO.					SHEET NO.
6					082
STATE		DIST.		County	
TEXA	S	LBB	LUBBOCK,ETC.		
CONT		SECT.	JOB	HIGHWA	Y NO.
0905		00	117	VAR	2
		DAT	re		
2023	3 S	PECIAL	TY	1/4/2	023



County 12 Lubbock	Hwy	Rdwy	Description	Cont	Sect	Begin TRM (MI)	End TRM (MI)	6"WS	6"WB	8"WS	12"WS	12"W(LNDP)	6"YS	4' ELIM	6" ELIM	8" ELIM	12" ELIM
12-1M	WEST SL	289 M.L.	8TH PLACE TO VICKSBURG	783	02	291+0.293	292+0.093	13,300	6,020	1,690	1,500	730	14,780	28,080	6,020	1,690	2,230
12-2M	NORTH SL	289 M.L.	ERSKINE BRIDGE	783	02	293-0.046	293-0.046	2,130	780	0	82	180	2,130	4,260	780	0	262
12-3M	WEST SL	289 M.L.	FRANKFORD BRIDGE	783	02	291-0.128	291-0.128	800	380	0	0	0	800	1,600	380	0	0
12-4M	WEST SL	289 M.L.	19TH ST BRIDGE	783	02	294-0.063	294-0.063	710	360	0	0	72	710	1,420	360	0	72
					тот	AL	16,940	7,540	1,690	1,582	982	18,420	35,360	7,540	1,690	2,564	



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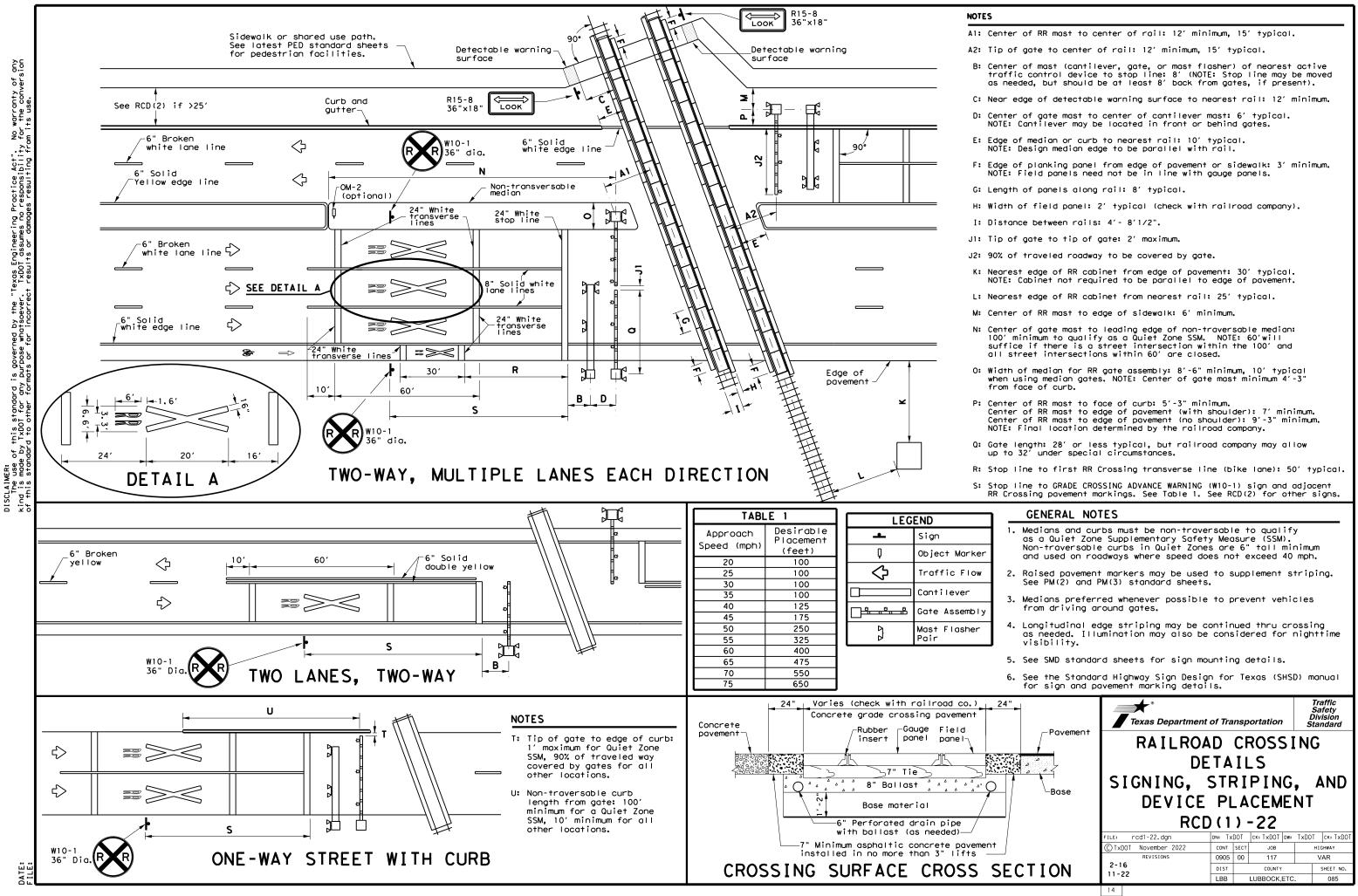
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Texas Department of Transportation

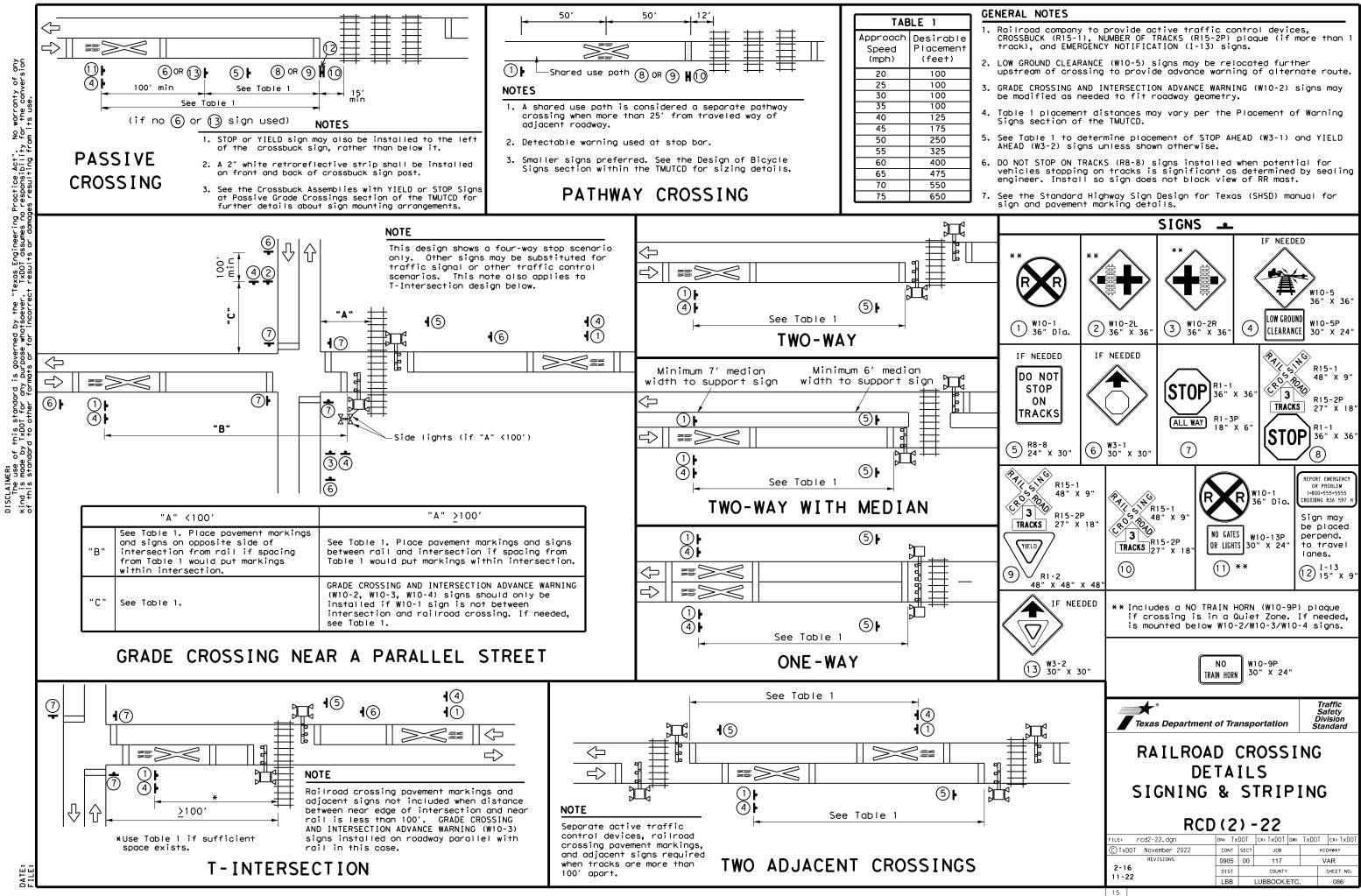
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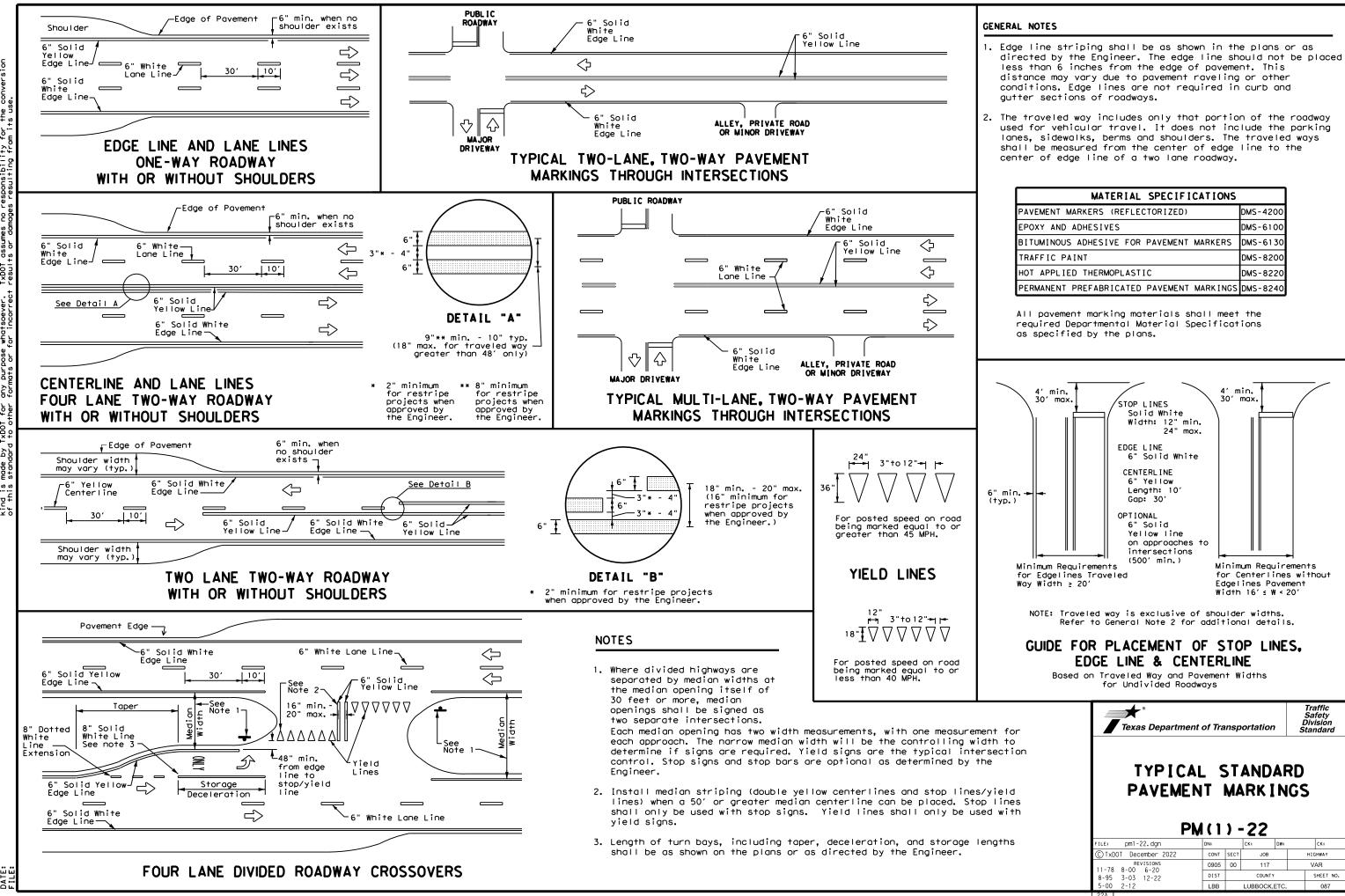
LUBBOCK COUNTY Jury T. Dearing, P.E. MULTIPOLYMER 01/05/2023

FED RD DIV NO					SHEET NO.
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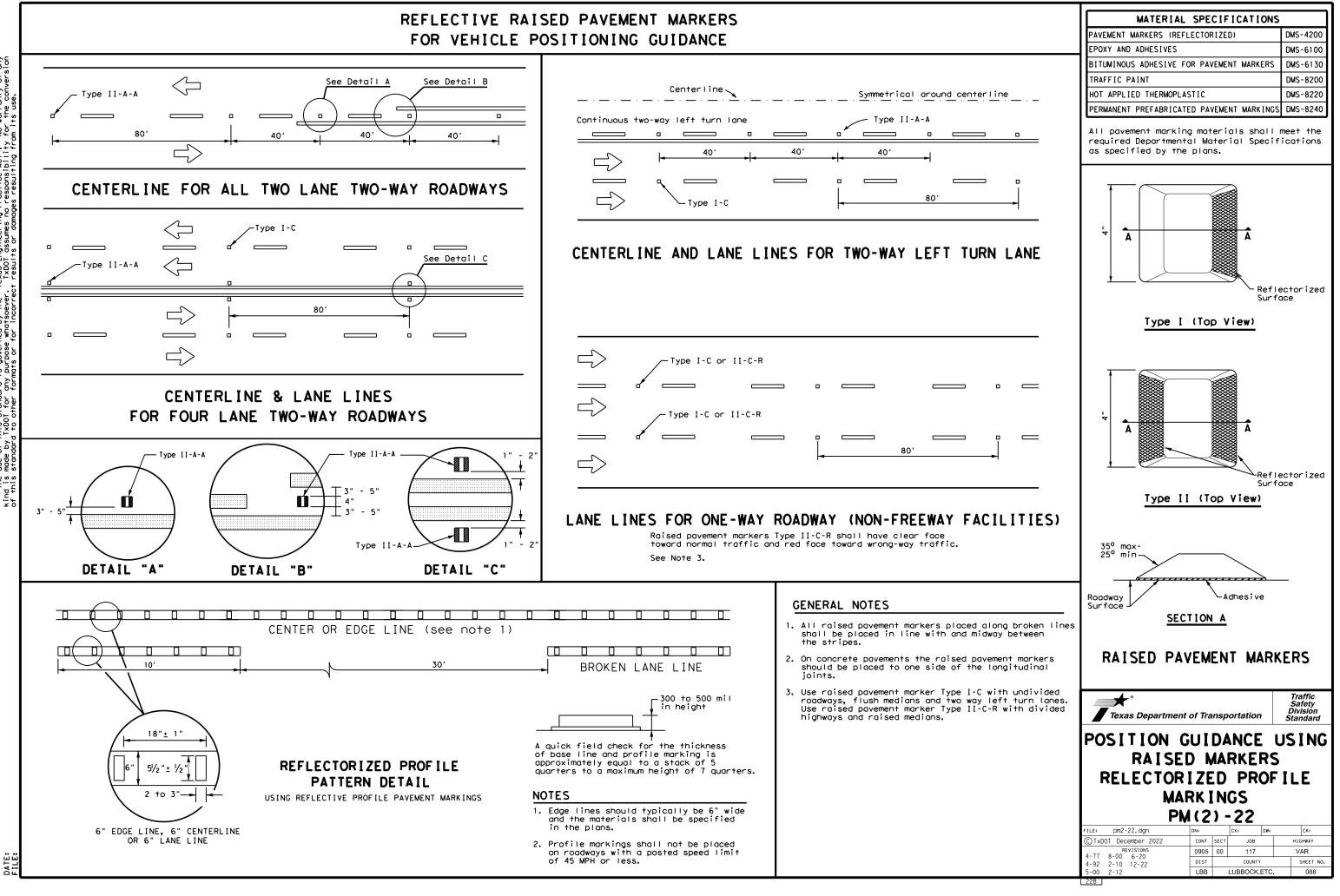




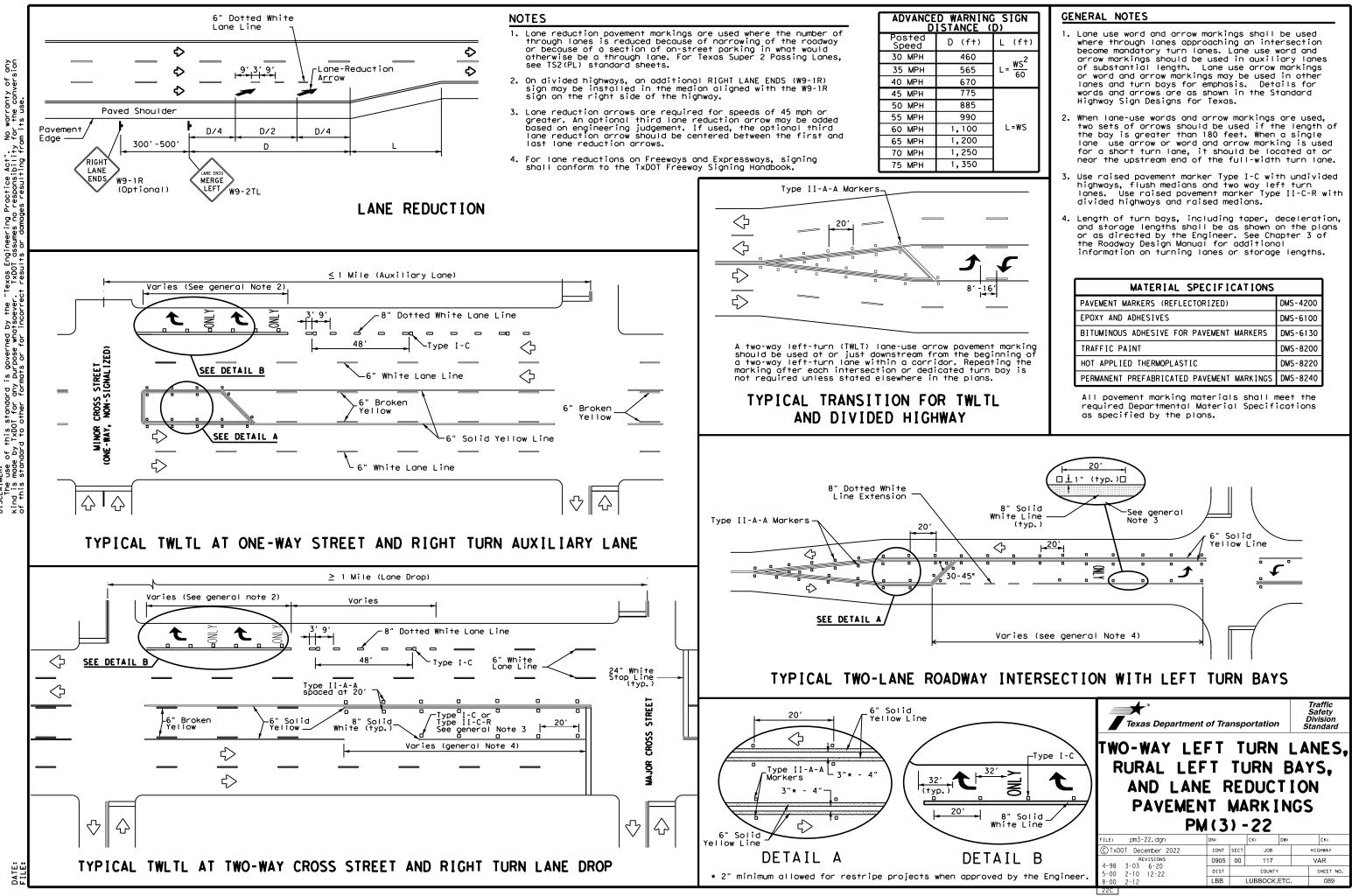
DATE:

MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240

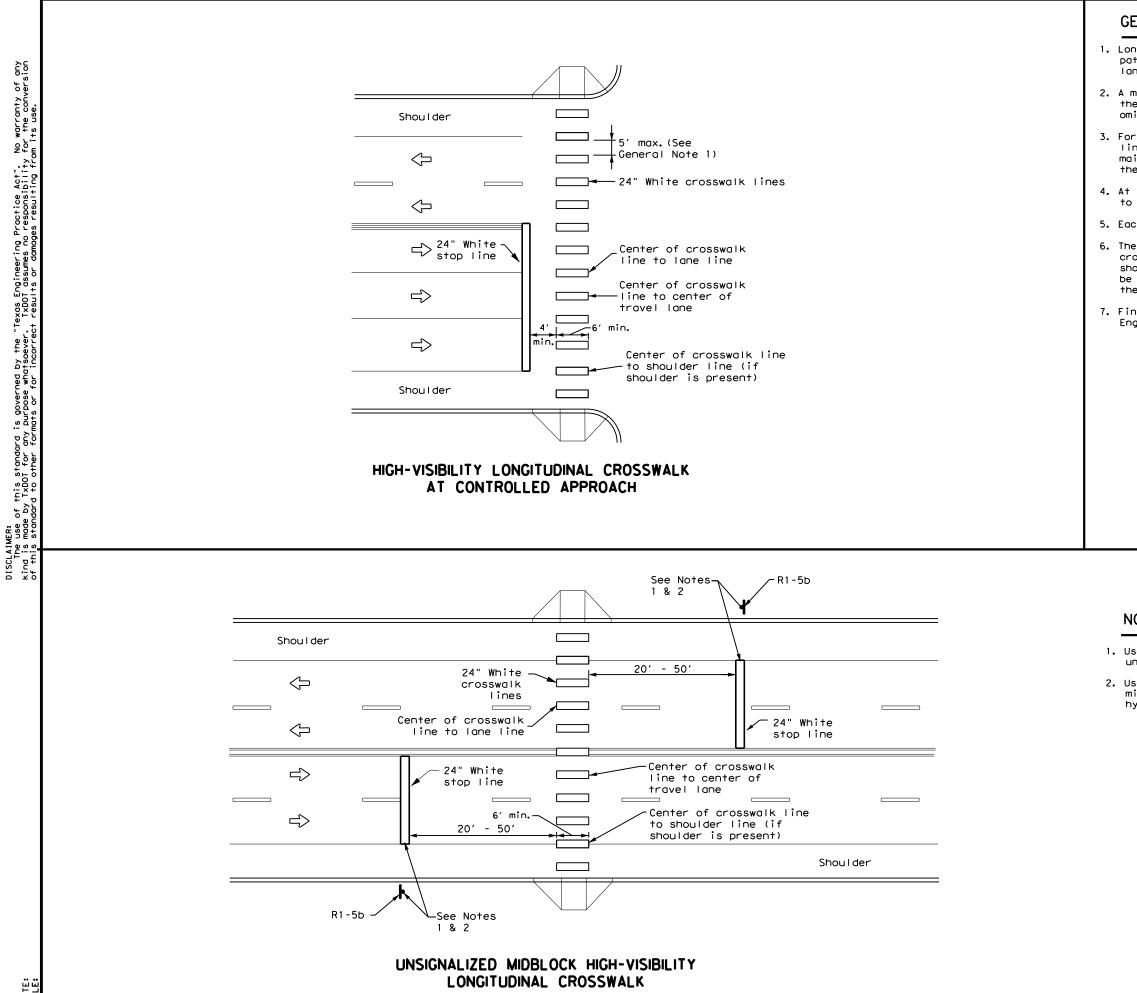
# FOR VEHICLE POSITIONING GUIDANCE



No warranty of any for the conversion om its used is governed by the "Texas Engineering Practice Act". Durpose whatsoever. TxDD1 assumes no responsibility mats or for incorrect results or damages resulting fro of this standard by TxDOT for any DISCLAIMER: The use kind is mode



warranty the conv S p Practice Act". responsibility ē č Texas Engineer TxDOT assume: SCLAIMER: The use of this standard is governed by the nd is made by IXDOT for any purpose whatsoever the standard to other formats or for incorre



DATE:

# GENERAL NOTES

- 1. Longitudinal crosswalk lines should not be placed in the wheel path of vehicles. Center the crosswalk lines on travel lanes. lane lines, and shoulder lines (if present).
- 2. A minimum 6" clear distance shall be provided to the curb face. If the last crosswalk line falls into this distance it must be omitted.
- 3. For divided roadways, adjustments in spacing of the crosswalk lines should be made in the median so that the crosswalk lines are maintained in their proper location across the travel portion of the roadway.
- 4. At skewed crosswalks, the crosswalk lines are to remain parallel to the lane lines.
- 5. Each crosswalk shall be a minimum of 6' wide.
- 6. The High-Visibility Longitudinal Crosswalk is the preferred crosswalk pattern on State Highways. Other crosswalk patterns as shown in the "Texas Manual on Uniform Traffic Control Devices" may be used. All crosswalk designs and dimension shall comply with the "Texas Manual on Uniform Traffic Control Devices,"
- 7. Final placement of Stop Bar and Crosswalk shall be approved by the Engineer in the field.

MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240
All payement marking materials shall	

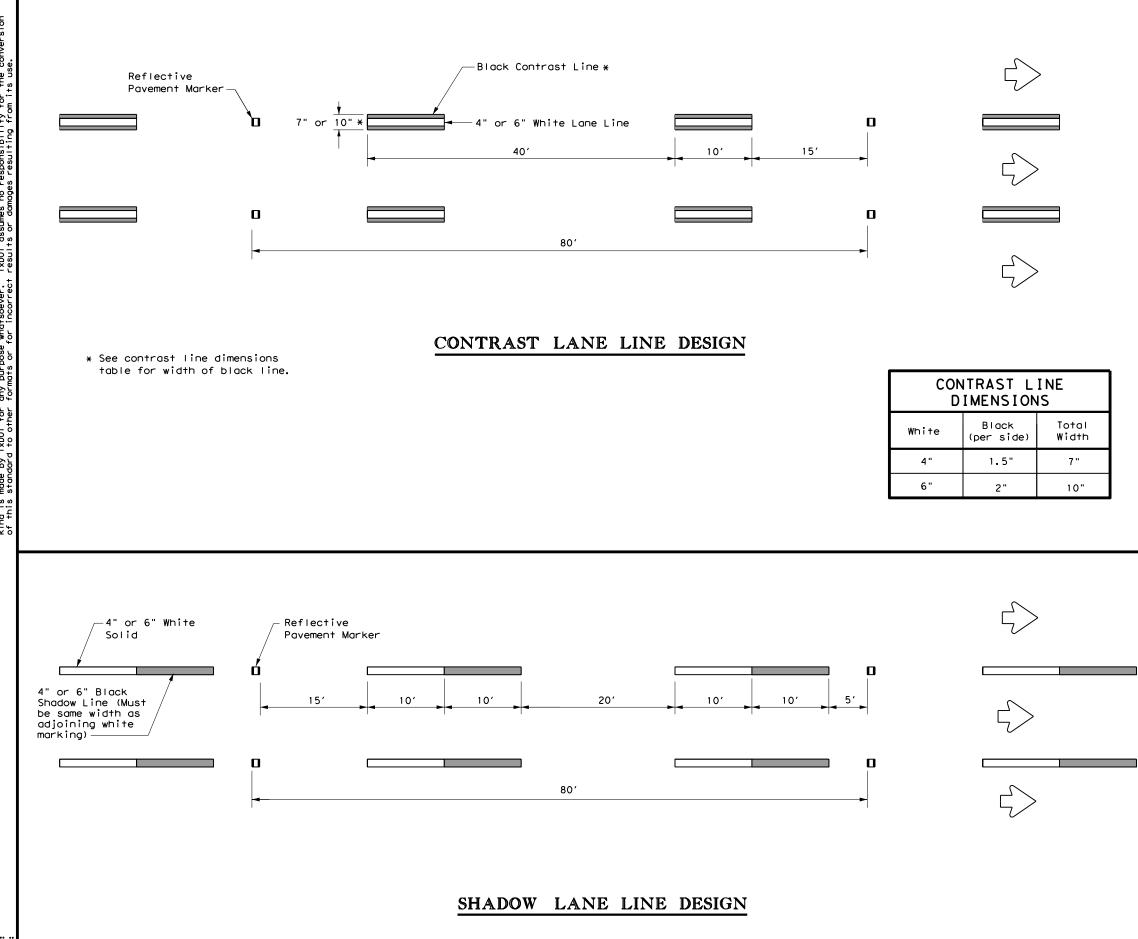
All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

# NOTES:

1. Use stop bars with Stop Here For Pedestrians (R1-5b) signs at unsignalized midblock cross walks.

2. Use stop bars with STOP HERE ON RED (R10-6 or R10-6a) signs at mid block crosswalks controlled by traffic signals or pedestrian hybrid beacons.

Texas Departme	nt of Tra	nsp	ortation	Traffic Safety Division Standard
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DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDDT for any purpose whatsoever. TxDDT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

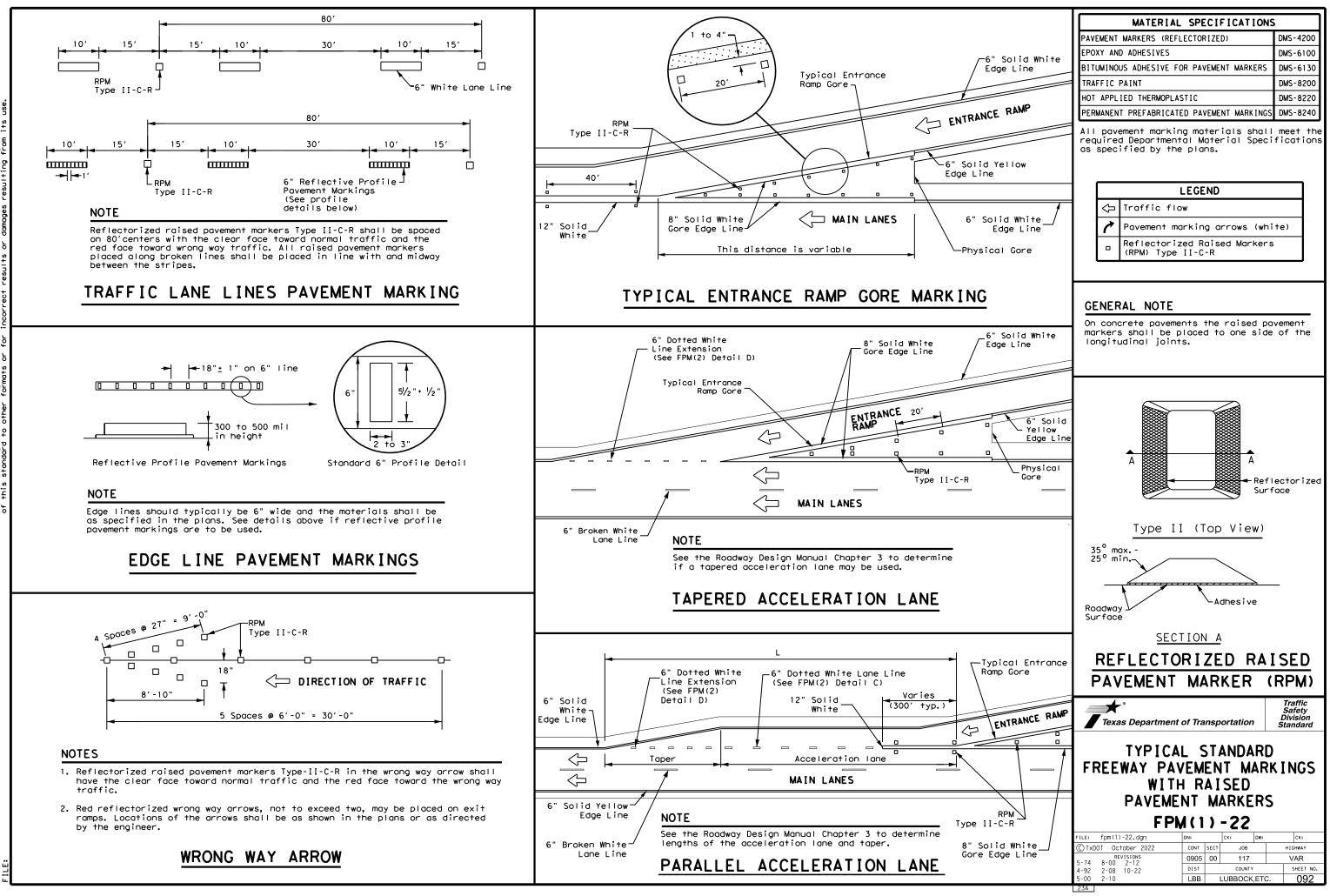
# GENERAL NOTES

- Contrast and Shadow markings may only be used on concrete pavements.
- 2. Contrast and Shadow markings shall not be used on edge lines.
- Contrast lane lines shall be permanent prefabricated pavement markings meeting DMS 8240.
- Shadow lane line designs shall be a liquid markings system approved by TxDOT.
- 5. All raised reflective pavement markers placed in broken lines shall be placed in line with and midway between the white stripes.
- 6. See PM(2) for raised reflective pavement markings installation details.

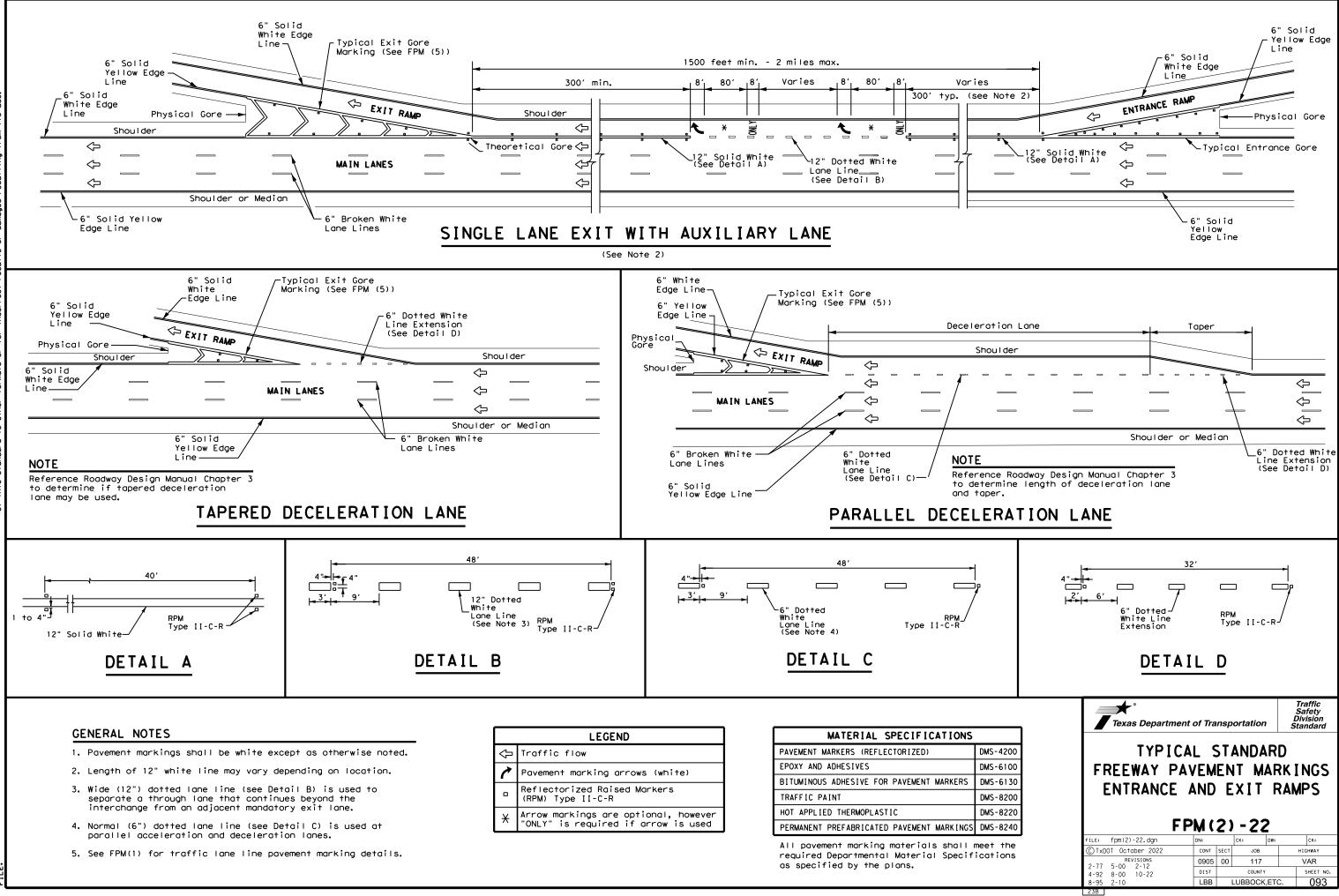
MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240

All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

Texas Departme	ent of Trans	portation	Ope Di	raffic erations vision andard				
CONTRAST AND SHADOW PAVEMENT MARKINGS								
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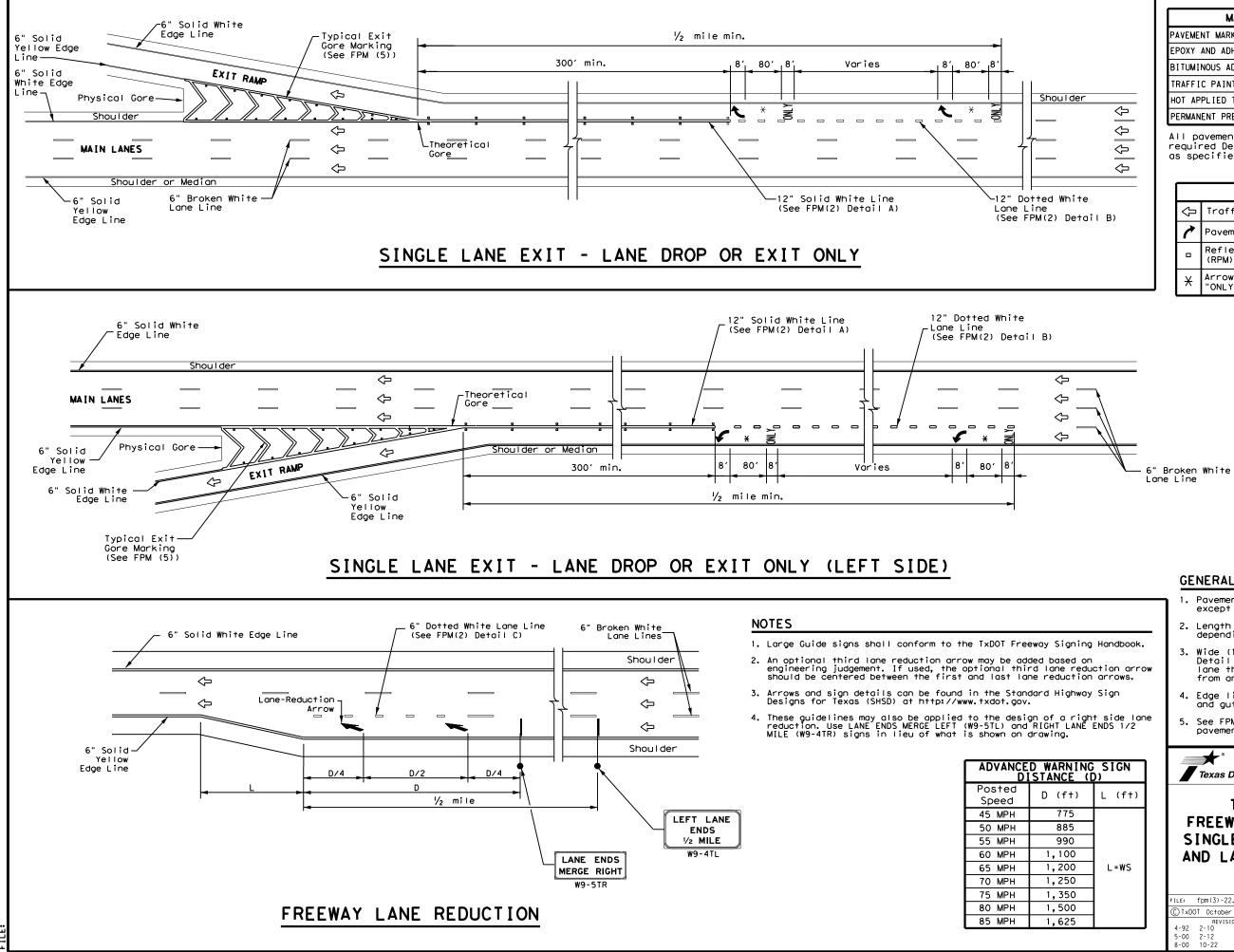


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MATERIAL SPECIFICATIONS					
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EPOXY AND ADHESIVES	DMS-6100				
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130				
TRAFFIC PAINT	DMS-8200				
HOT APPLIED THERMOPLASTIC	DMS-8220				
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240				

All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

	LEGEND
Ŷ	Traffic flow
1	Pavement marking arrows (white)
	Reflectorized Raised Markers (RPM) Type II-C-R
¥	Arrow markings are optional, however "ONLY" is required if arrow is used

# GENERAL NOTES

- 1. Pavement markings shall be white except as otherwise noted.
- Length of 12" white line may vary depending on location.
- Wide (12") dotted lane line (see FPM(2) Detail B) is used to separate a through lane that continues beyond the interchange from an adjacent mandatory exit lane.
- Edge lines are not required in curb and gutter sections of frontage roads.
- 5. See FPM(1) for traffic lane line pavement marking details.

Texas Department of Transportation

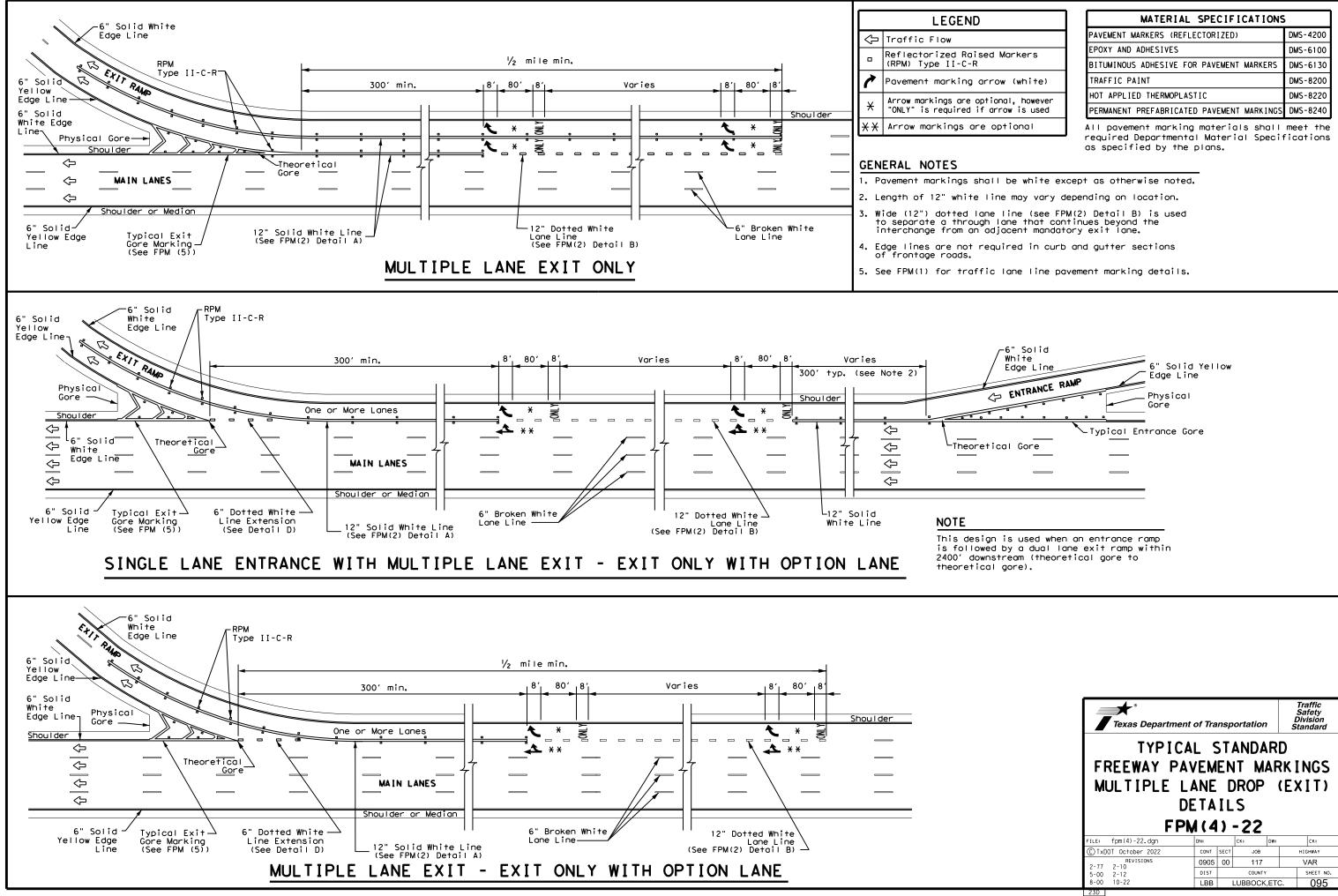
Traffic Safety Division Standard

TYPICAL STANDARD FREEWAY PAVEMENT MARKINGS SINGLE LANE DROP (EXIT ONLY) AND LANE REDUCTION DETAILS

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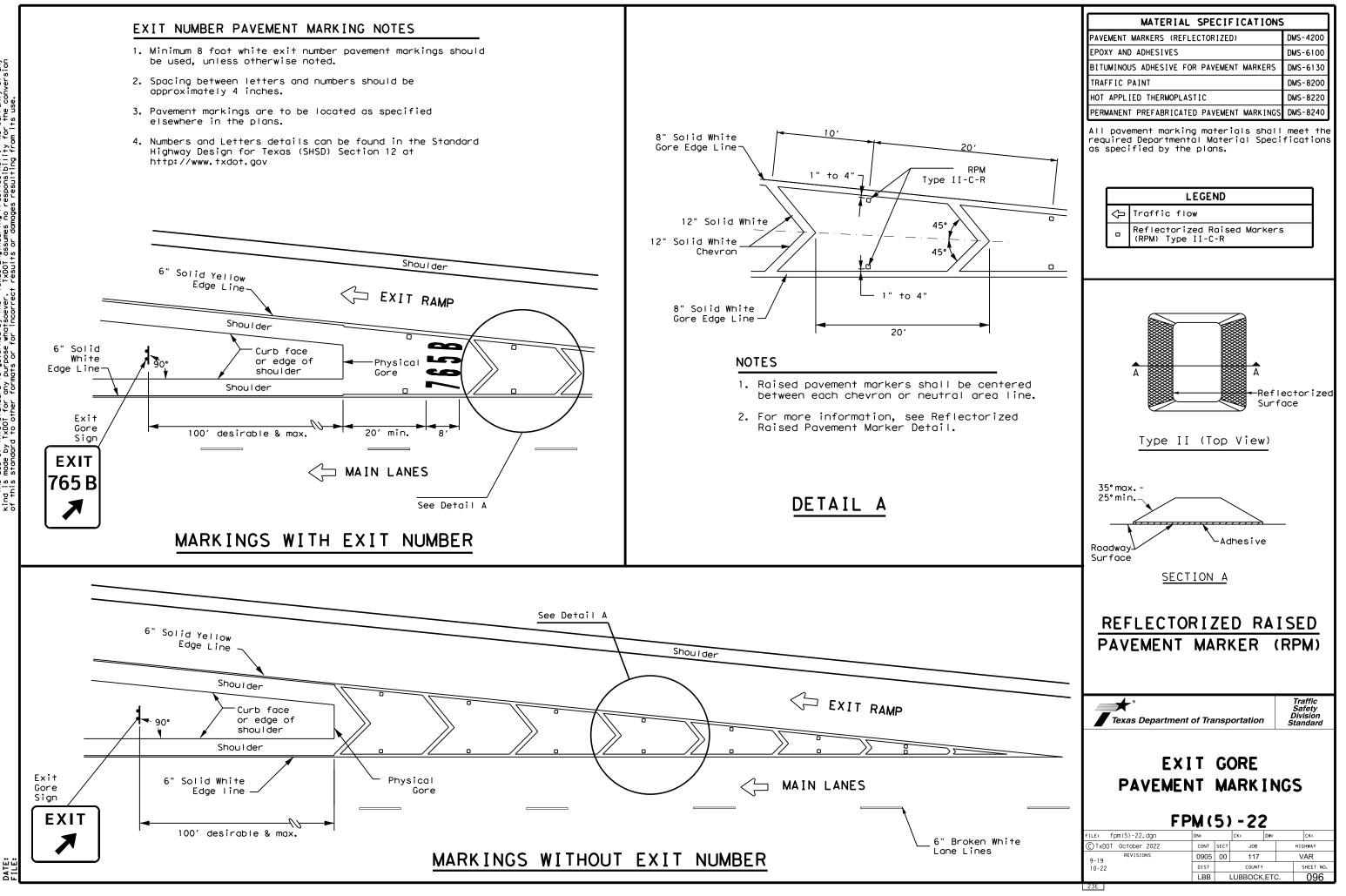
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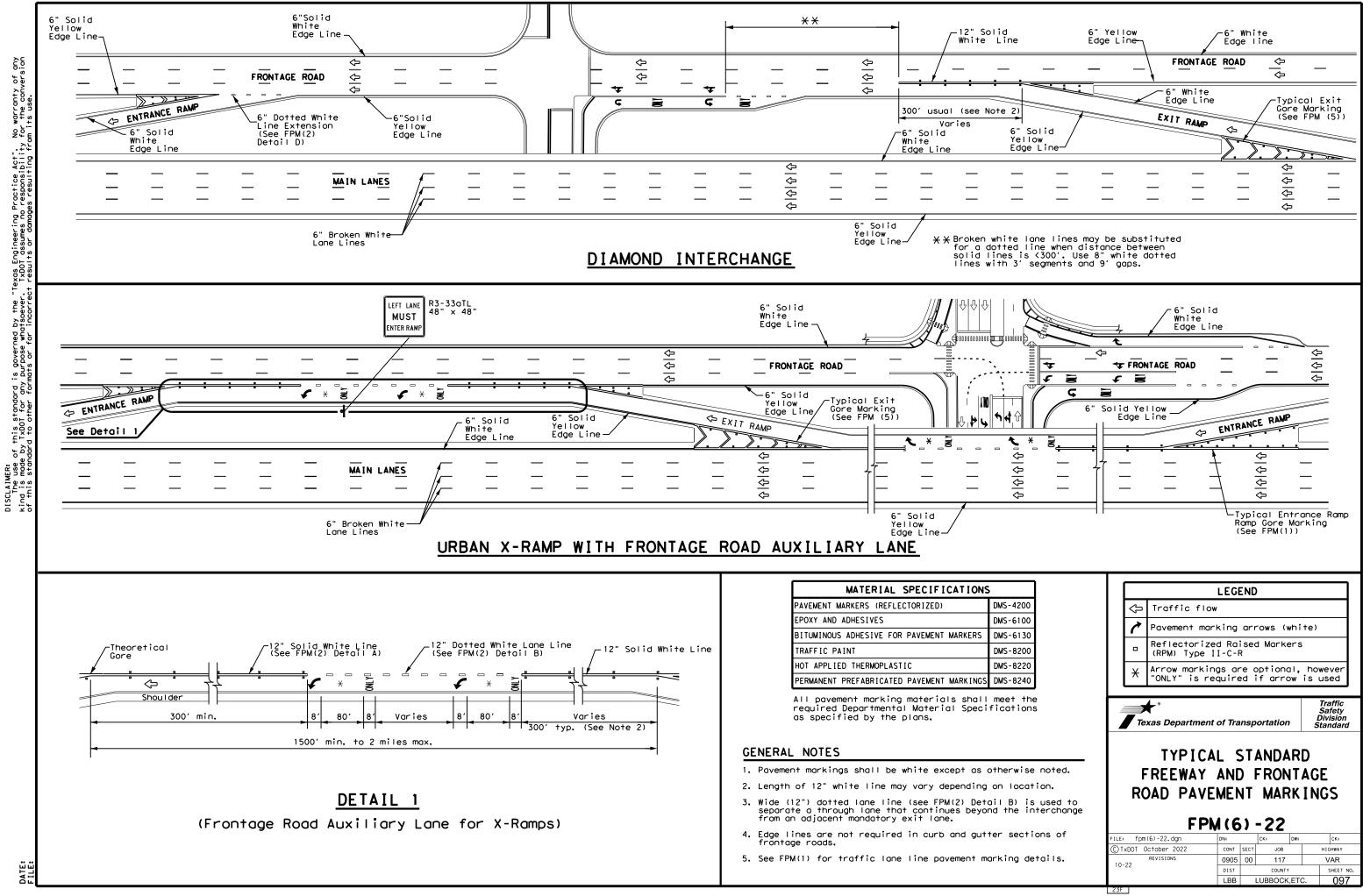
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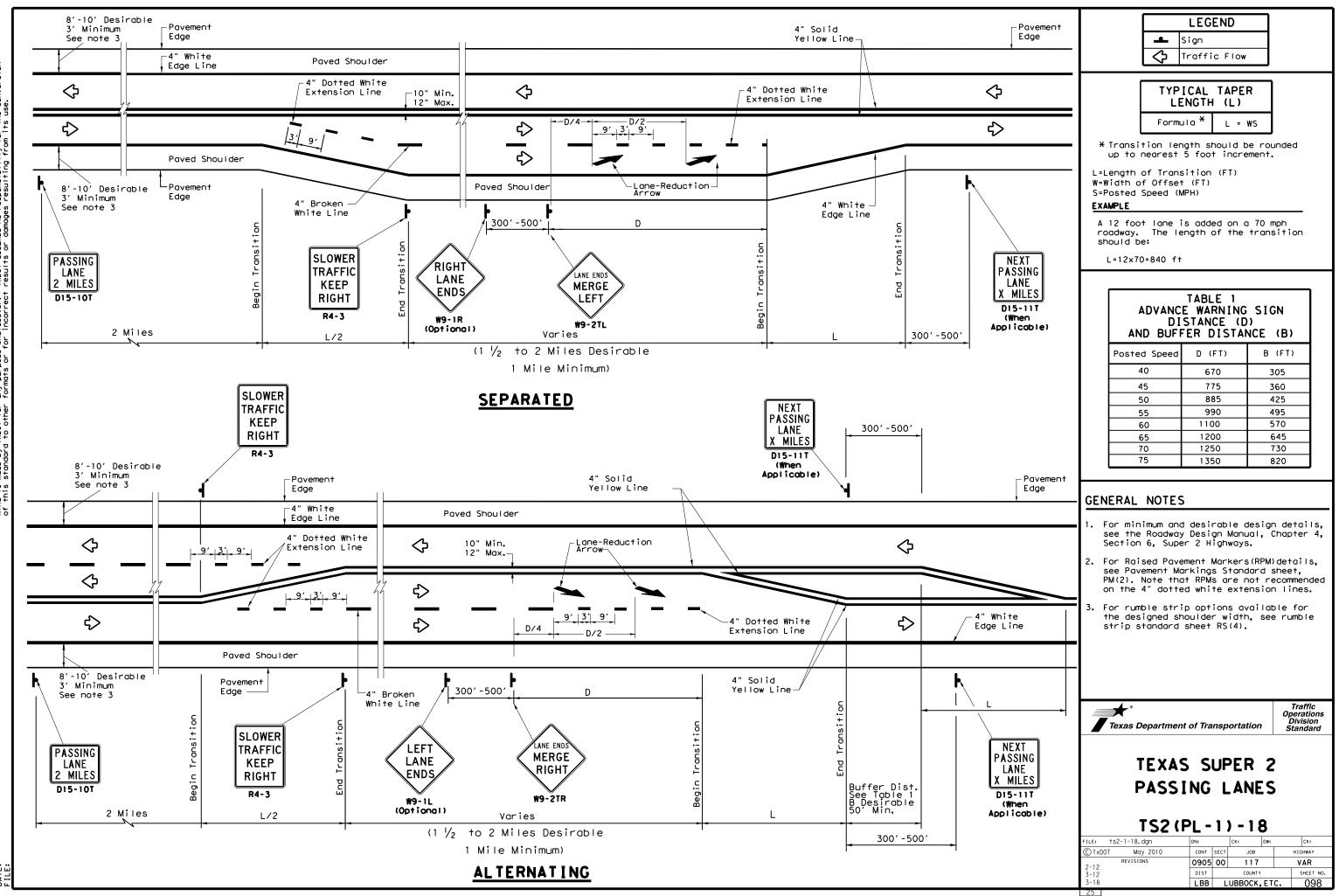
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arrow (white)
optional, however if arrow is used
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MATERIAL SPECIFICATIONS	<b>.</b>
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
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PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240
All pavement marking materials shall	meet the



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## PART 1 - GENERAL

#### DESCRIPTION 1.01

This project includes construction work within the right of way and/or properties of the Railroad and adjacent to its tracks, wire lines and other facilities. These sheets describe the minimum special requirements for coordination with the Railroad when working upon, over or under Railroad Right of Way or when impacting current or future Railroad operations. Coordinate with the Railroad while performing the work outlined herein, and afford the same cooperation with the Railroad as with TxDOT. Complete all submittals and work in accordance with TxDOT Standard Specifications, Railroad Guidelines and AREMA recommendations as modified by these minimum special requirements or as directed in writing by the Railroad Designated Representative.

For purposes of this project, the Railroad Designated Representative is the person or persons designated by the Railroad Manager of Industry and Public Projects to handle specific tasks related to the project.

#### 1.02 REQUEST FOR INFORMATION / CLARIFICATION

Submit Requests for Information ("RFI") involving work within any Railroad Right of Way to the TxDOT Engineer. The TxDOT Engineer will submit the RFI to the Railroad Designated Representative for review and approval for RFI's corresponding to work within Railroad Right of Way. Allow six (6) weeks total time for review and approval, which includes four (4) weeks for review and approval by the Railroad.

## 1.03 PLANS / SPECIFICATIONS

TxDOT has received written Railroad approval of the plans and specifications for this project. Any revisions or changes in the plans after award of the Contract must have the approval of TxDOT and the Railroad.

## PART 2 - UTILITIES AND FIBER OPTIC

Construct all utility installations in accordance with current AREMA recommendations, Railroad, TxDOT and owning utility specifications and requirements. Railroad general guidelines can be found on the Railroad website or by contacting the Railroad Designated Representative.

## PART 3 - CONSTRUCTION

#### 3.01 GENERAL

- A. Perform all work in compliance with all applicable Railroad, Federal Railroad Administration (FRA), and TxDOT rules and regulations. Arrange and conduct work in a manner that does not endanger or interfere with the safe operation of the tracks and property of the Railroad and the traffic moving on such tracks, or the wires, signals and other property of the Railroad, its tenants or licensees, at or in the vicinity of the Work. The safe operation of railroad train movements takes precedence over any work to be performed by the Contractor. The Contractor is responsible for train delay cost and lost revenue claims due to any delays or interruption of train operations resulting from Contractor's construction or other activities.
- B. Construction activities within 15 feet of the operational tracks will only be allowed if absolutely necessary and the Railroad's Designated Representative grants approval. Construction activities within 15 feet of the operational track(s) preferably allow the tracks to stay operational. In such cases, coordination and approval by the Railroad Track Manager is required with regard to schedule, flagging, and slow orders. See Sections 3.07 and 3.08 for additional information.
- C. Provide track protection for all work equipment (including rubber tired equipment) operating within 25 feet from nearest rail. When not in use, keep Contractor machinery and materials at least 50 feet from the Railroad's nearest track.
- D. Vehicular crossings of railroad track are allowed only at existing crossings, or haul road crossings developed with Railroad approval.
- E. The Contractor is also advised that new railroad facilities these facilities are delineated in the plans. Be aware of the limits of responsibilities and coordinate efforts with the Railroad and TxDOT.
- F. Railroad requirements do not allow work within 50 feet of track centers when a train passes the work site and all personnel must clear the area within 50 feet of the track centerline and secure all equipment. Additional allowances may be pursued as outlined in 3.02 and 3.03.
- G. All permanent clearances shall be verified before project closing.

## 3.02 RAILROAD OPERATIONS

- A. Trains and/or equipment are expected on any track, at any in either direction. Become familiar with the train time, schedules in this location and structure bid assuming intermittent track windows in this period, as defined in Paragraph B that follows.
- B. All railroad tracks within and adjacent to the contract site are active, and rail traffic over these facilities shall be maintained throughout the Project. Activities may include both through moves and switching moves to local customers. raircad traffic and operations will occur continuously throughout the day and night on these tracks and shall be maintained at all times as defined herein. Coordinate and schedule the work so that construction activities do not interfere with railroad operations.
- C. Coordinate work windows with TxDOT and the Railroad's Designated Representative. Types of work windows include Conditional Work Windows and Absolute Work Windows, as defined below:
  - Conditional Work Window: A Conditional Work Window is a period of time that railroad operations have priority over construction activities. When construction activities may occur on and/or adjacent to the railroad tracks within 25 feet of the nearest track, a railroad flag person will be required. At the direction of the railroad flag person, upon approach of a train, and when trains are present on the tracks, the tracks must be cleared (i.e., no construction equipment, materials or personnel within 25 feet, or as directed by the Railroad Designated Representative, from the tracks). Conditional Work Windows are available for the Project.
  - 2. Absolute Work Window: An Absolute Work Window is a period of Absolute Work Window: An Absolute Work Window is a period of time that construction activities are given priority over railroad operations. During this time frame, the designated railroad track(s) will be inactive for train movements and may be fouled by the Contractor. At the end of an Absolute Work Window, the railroad tracks and/or signals must be completely operational for train operations and all Railroad, Public Utilities Commission (PUC) and FRA requirements, codes and regulations for operational tracks must be satisfied. In the situation where the operational tracks and/or signals bave been affected the Railroad operating tracks and/or signals have been affected, the Railroad will perform inspections of the work prior to placing that track back into service. Railroad flag persons will be required for construction activities requiring an Absolute Work Window. Absolute Work Windows will not generally be granted. Any request will require a detailed explanation for Railroad review.

#### 3.03 RIGHT OF ENTRY. ADVANCE NOTICE AND WORK STOPPAGES

- A. Do not perform any work within Railroad Right of Way without a valid executed Right of Entry Agreement if required on this project.
- B. Give advance notice to the Railroad as required in the "Contractor's Right of Entry Agreement" before commencing work in connection with construction upon or over Railroad Right of Way and observe the Railroad's rules and regulations with respect thereto.
- C. Perform all work upon Railroad Right of Way in a manner to avoid interference with or endanger the operations of the Railroad. Whenever work may affect the operations or safety of trains, submit the work method to the Railroad Designated Representative for approval. Approval does not relieve the Contractor from liability. Do not commence any work which requires flagging service or inspection service until the flagging protection required by the Railroad is available at the job site. See Section 3.15 for railroad flagging requirements.
- D. Make requests in writing for both Absolute and Conditional Work Windows, at least 30 days in advance of any work. Include in the written request: Exactly what the work entails.

  - The days and hours that work will be performed. The exact location of work, and proximity to the tracks. The type of window requested and the amount of time requested. 3.
- The designated contact person.

Provide a written confirmation notice to the Railroad at least 48 hours before commencing work in connection with approved work windows when work is within 25 feet of nearest rail. Perform all work in accordance with previously approved work plans.

E. Make provisions to protect operations and property of the Railroad should . Make provisions to protect operations and property of the Railroad should a condition arising from, or in connection with the work, require immediate and unusual action. If in the judgment of the Railroad Designated Representative such provisions are insufficient, the Railroad Designated Representative may require or provide such provisions as deemed necessary. In any event, such provisions shall be at the Contractor's expense and without cost to the Railroad or TxDOT. The Railroad or TxDOT shall have the right to order the Contractor to temporarily cease operations in the event of an emergency or, if in the opinion of the Railroad Designated Representative, the Contractor's operations could endanger railroad operations. In the event of such an order, immediately notify TxDOT of the order.

#### INSURANCE 3.04

"UPRR,BNSF,KCS/TEXMEX will not accept on-track safety training certificates from other railroads. Refer to Railroad specific contractor right of entry for training information."

#### 3.06 COOPERATION

#### MINIMUM CONSTRUCTION CLEARANCES FOR FALSEWORK AND OTHER 3.07 TEMPORARY STRUCTURES

of construction:

#### 3,08

Do not begin work upon or over Railroad Right of Way until furnishing the Railroad with the insurance policies, binders, certificates and endorsements required by the "Contractor's Right of Entry Agreement", and until the Railroad Designated Representative has advised TxDOT that such insurance is in accordance with the Agreement.

#### 3.05 RAILROAD SAFETY ORIENTATION

A. Complete the railroad course "Orientation for Contractor's Safety", and maintain current registration prior to working on railroad property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

Know and follow the "Contractor's Right of Entry Agreement" EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

The Railroad will cooperate with Contractor so that work may be conducted in an efficient manner, and will cooperate with Contractor in enabling use of Railroad Right of Way in performing the work.

Abide by the following minimum temporary clearances during the course

A. 15' - 0" (BNSF) (UPRR) and 14'-0" (KCS) horizontal from

centerline of track B. 22' (KCS) and 21' - 6" (UPRR & BNSF) vertically above top of rail.

For construction clearance less than listed above, obtain local Railroad Operating Unit review and approval.

#### APPROVAL OF REDUCED CLEARANCES

A. Maintain minimum track clearances during construction as specified in Section 3.07.

B. Submit any proposed infringement on the specified minimum clearances to the Railroad Designated Representative through TxDOT at least 30 days in advance of the work. Do not proceed with such infringement without written approval by the Railroad Designated Representative.

C. Do not commence work involving an approved infringement without receiving written assurance from the Railroad Designated Representative that arrangements have been made for any necessary flagging service.

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RAILROAD REQUIREMENTS FOR NON-BRIDGE CONSTRUCTION PROJECTS							
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#### 3.09 MAINTENANCE OF RAILROAD FACILITIES

- A. Maintain all ditches and drainage structures free of silt or other aceas and any other damage within Railroad Right of Way and repair any other damage to the property of the Railroad, or its tenants.
- B. Perform all such maintenance and repair of damages due to the Contractors's operations at Contractor's expense.
- C. Submit a proposed method of erosion control for review by the Railroad prior to beginning any grading on the project site. Comply with all applicable local, state and federal regulations when developing and implementing such erosion control.

#### 3. 10 SITE INSPECTIONS BY RAILROAD'S DESIGNATED REPRESENTATIVE

- A. In addition to the office reviews of construction submittals, Representative at significant points during construction, including the following if applicable:
- Pre-construction meetings.
   Pile driving/drilling of caissons or drilled shafts.
   Reinforcement and concrete placement for railroad bridge
- substructure and/or superstructure.
- 4.
- Erection of precast concrete or steel bridge superstructure. Placement of waterproofing (prior to placing ballast on bridge deck). 6. Completion of the bridge structure.
- B. Site inspection is not limited to the milestone events listed above. Site visits to check progress of the work may be performed at any time throughout the construction as deemed necessary by the Railroad.
- C. Provide a detailed construction schedule, including the proposed temporary horizontal and vertical clearances and construction sequence for all work to TxDOT for submittal to the Railroad Designated Representative for review prior to commencement of work. Include the anticipated dates when the above listed events will occur. Update this schedule for the above listed events as necessary and each month at a minimum to allow the Railroad to schedule site inspections.

## 3.11 RAILROAD REPRESENTATIVES

Railroad representatives, conductors, flag person or watch person will be provided by the Railroad at expense of TxDOT to protect Railroad facilities, property and movements of its trains or engines. In general, the Railroad will furnish such personnel or other protective services as follows:

- A. When any part of any equipment is standing or being operated within 25 feet, measured horizontally, from nearest rail of any track on which trains may operate, or when any object is off the ground and any dimension thereof could extend inside the 25 foot limit, or when any erection or construction activities are in progress within such limits, regardless of elevation above or below track.
- B. For any excavation below elevation of track subgrade if, in the opinion the Railroad Designated Representative, track or other railroad facilities may be subject to settlement or movement.
- C. During any clearing, grubbing, excavation or grading in proximity to railroad facilities, which, in the opinion of the Railroad Designated Representative, may endanger railroad facilities or operations.
- D. During any Contractor's operations when, in the opinion of the Railroad Designated Representative, railroad facilities, including, but not limited to, tracks, buildings, signals, wire lines, or pipe lines, may be endangered.
- E. Arrange with the Railroad Designated Representative to provide the adequate number of flag persons to accomplish the work.

## 3.12 COMMUNICATIONS AND SIGNAL LINES

If required, the Railroad will rearrange its communications and signal lines, its grade crossing warning devices, train signals and tracks, and facilities that are in use and maintained by the Railroad's forces in connection with its operation at expense of TxDOT. This work by the Railroad will be done by its own forces and it is not a part of the Work words the contract Work under this Contract.

## 3,13 TRAFFIC CONTROL

Coordinate any operations that control traffic across or around railroad facilities with the Railroad Designated Representative.

#### 3.14 CONSTRUCTION EXCAVATIONS AND BORING ACTIVITIES UNDER TRACK

- A. Take special precaution and care in connection with excavating and shoring. Excavations for construction of footings, piers, columns, walls or other facilities that require shoring shall comply with requirements of TxDOT, OSHA, AREMA and Railroad "Guidelines for Temporary Shoring".
- B. The project plans indicate whether there are fiber optic lines or other such telecommunications systems that require consideration. Regardless, contact the necessary call center to determine if such cable systems are present:

UPRR 1-800-336-9193 7:00 AM to 9:00 PM CST Monday-Friday except holidays, staffed 24 hrs/day for emergencies 48 hrs notice required

BNSF 1-800-533-2891 24 hour number 5 working days notice required

KCS 1-800-344-8377 Texas One Call, a 24 hour number 48 hrs notice required, excluding weekends and holidays

If a telecommunications system is buried anywhere on or near railroad property, coordinate with TxDOT, the Railroad and the Telecommunication Company(ies) to arrange for relocation or protective measures prior to beginning work on or near railroad property. Refer to the project General Notes for additional information.

C. Projects involving a boring or jack and bore operation under track such as drainage pipes or culverts and utilities require an installation plan reviewed and approved by the Railroad and TxDOT prior to proceeding with such construction. A railroad inspector and contractor assisted monitoring of ground and track movement is required to maintain sofe passage of rail traffic. Stop installation and do not allow passage of trains if movements in excess of 1/4 inch vertical or horizontal is detected in the tracks. Immediately repair the damage to the satisfaction of TxDOT and the Railroad before proceeding.

#### 3.15 RAILROAD FLAGGING

Per the Right of Entry Agreement for flagging, notify the Railroad Representative at least 10 working days in advance of Contractor's work and at least 30 working days in advance of any Contractor's work in which any person or equipment will be within 25 feet of nearest rail or as specified in the Contractor Right of Entry (CROE).

#### 3.16 CLEANING OF RIGHT-OF-WAY

When work is complete, remove all tools, implements, and other materials brought into Railroad Right of Way and leave the right of Way in a clean and presentable condition to the satisfaction of TxDOT and the Railroad.

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RAILROAD REQUIREMENTS FOR NON-BRIDGE CONSTRUCTION PROJECTS								
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1. WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED)         DOT *: SEE ATTACHMENT Crossing Type: ** SEE ATTACHMENT RR Company Owning Track at Crossing: SEE ATTACHMENT Operating RR Company at Track: SEE ATTACHMENT Operating RR Company at Track: SEE ATTACHMENT RR MF: SEE ATTACHMENT RR Subdivision: SEE ATTACHMENT City: SEE ATTACHMENT County: SEE ATTACHMENT Scope of Work at this Crossing to Be Performed by State Contractor: REPLACEMENT OF PAVEMENT MARKINGS	Contractor must incorporate Construction Inspection into anticipate construction schedule. Not Required Required: Contact Information for Construction Inspection:	d VI. <u>CONTRA</u> On this ( Not Require Require With To view ( the State http://ww Approved
Scope of Work at this Crossing to Be Performed by Railroad Company: N/A  ** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian, or Closed/Abandoned  II. OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)	IV. CONSTRUCTION WORK TO BE PERFORMED BY THE RAILROAD On this project, construction work to be performed by a railroad co Required Not Required Coordinate with TxDOT for any work to be performed by the Railroad TxDOT must issue a work order for any work done by the Railroad Com prior to the work being performed.	VII. <u>RAIL</u>
<pre>** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian, or Closed/Abandoned II. OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW) III. FLAGGING &amp; INSPECTION * of Days of Railroad Flagging Expected: 10 On this project, night or weekend flagging is: Expected Not Expected Flagging services will be provided by: Not Expected Flagging services will be provided by: Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor. Contract Information for Elagaing:</pre>	<ul> <li>V. RAILROAD INSURANCE REQUIREMENTS</li> <li>Railroad reference number shall be provided by TxDOT CST or DO.         The Contractor shall confirm the insurance requirements with             the Railroad as the insurance limits are subject to change without             Insurance policies must be issued for and on behalf of the Railroad             more than one Railroad Company is operating on the same right of w             where several Railroad Companies are involved and operate on their             separate rights of way, provide separate insurance policies in the             each Railroad Company.             No direct compensation will be made to the Contractor for providir             insurance coverages shown below or any deductibles. These costs ar             incidental to the various bid items.         Type of Insurance     Amount of Coverage (Mini-</li></ul>	d. Where as requi ay or own name of IX. EMERI ig the e In Ca Call Railr Locat
Contact Information for Flagging: UPRR - UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging - UP.request@nrssinc.net Call Center 877-984-6777 BNSF - BNSF.info@railpros.com Call Center 877-315-0513, Select #1 for flagging KCS - KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging - Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630	Workers Compensation       \$500,000 / \$500,000 / \$500         Commercial General Liability       \$2,000,000 / \$4,000,00         Business Automobile       \$2,000,000 combined single         Railroad Protective Liability       Not Required         Non - Bridge Projects       \$2,000,000 / \$6,000	0.000 1 imi t
	Image Projects         \$2,000,000 / \$6,000           Bridge Projects         \$5,000,000 / \$10,00           Other         0ther	

## TRACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

nis project, an ROE agreement is: t Required

quired: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3)

equired: Contractor to obtain (see Item 5, Article 8.4)

ith the following railroad companies:

ew previously approved ROE Agreement templates agreed upon between State and Railroad, see:

//www.txdot.gov/inside-txdot/division/rail/samples.html

oved ROE Agreement templates are not to be modified by the Contractor.

ractor shall not operate within Railroad Right of Way without an executed truction & Maintenance Agreement between the State and the Railroad and kecuted ROE agreement between the Contractor and the Railroad if required roject.

# AILROAD COORDINATION MEETING

his project, a Railroad Coordination Meeting is: ot Required

Item 5, Article 8.1 for more details.

# UBCONTRACTORS

ractor shall not subcontract work without written consent of TxDOT. contractors are required to maintain the same insurance coverage required of the Contractor.

# MERGENCY NOTIFICATION

n Case of Railroad Emergency all BNSF Emergency Line allroad Emergency Line at 800-832-5452 ocation: DOT VAR. R Milepost VAR. ubdivision VAR.

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DOT#	CROSSING TYPE	TRACK OWNER	TRACK OPERATOR	RR MP	SUBDIVISION	CITY	COUNTY	HWY/RDWY AT CROSSING	CSJ	TRAINS PER DAY	SWITCHING MOVEMENTS	% OF WORK
014849L	PUBLIC	BNSF	BNSF	18.47	SLATON	MULESHOE	BAILEY	FM 2079	90500117	18	0	
017257L	PUBLIC	BNSF	BNSF	623.73	PLAINVIEW	PLAINVIEW	HALE	FM 3183	90500117	10	0	
017264W	PUBLIC	BNSF	BNSF	625.74	PLAINVIEW	PLAINVIEW	HALE	FM 1767	90500117	10	0	
017280F	PUBLIC	BNSF	BNSF	629.87	PLAINVIEW	PLAINVIEW	HALE	FM 400	90500117	12	0	
017271G	PUBLIC	BNSF	BNSF	627.94	PLAINVIEW	PLAINVIEW	HALE	FM 400	90500117	12	0	
276582V	PUBLIC	BNSF	BNSF	324.06	DIMMITT SPUR	PLAINVIEW	HALE	FM 400	90500117	6	4	
017334J	PUBLIC	BNSF	BNSF	657.04	PLAINVIEW	ABERNATHY	HALE	FM 2060	90500117	6	0	
014891K	PUBLIC	BNSF	BNSF	60.88	SLATON	ANTON	LAMB	FM 1072	90500117	16	0	
014870S	PUBLIC	BNSF	BNSF	38.58	SLATON	SUDAN	LAMB	FM 1843	90500117	16	0	
015001B	PUBLIC	BNSF	BNSF	688.66	SLATON	SLATON	LUBBOCK	FM 400	90500117	20	0	
017385U	PUBLIC	BNSF	BNSF	596.35	PLAINVIEW	TULIA	SWISHER	FM 214	90500117	8	0	
017383F	PUBLIC	BNSF	BNSF	592.14	PLAINVIEW	HAPPY	SWISHER	CR E/ IH 27	90500117	8	0	

Texas Department of	of Tra	nsp	ortation		Rail Division			
RAILROAD SCOPE OF WORK PROJECT SPECIFIC DETAILS								
FILE: RR Scope of Work.dgn	DN: Tx[	)0T	CK:	DW:	ск:			
© TxDOT June 2014	CONT	SECT	JOB		HIGHWAY			
REVISIONS 9/2021	0905	00	117		VARIOUS			
3/2021	DIST		COUNTY		SHEET NO.			
	LBB		LUBBOCK	, ETC.	102			

I. WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED)	Contractor must incorporate Constru	ction Inspection into anticipated	vi. <u>co</u>
DOT #: SEE ATTACHMENT	construction schedule.		On
Crossing Type: <u>**</u> see ATTACHMENT RR Company Owning Track at Crossing: SEE ATTACHMENT	X Not Required		
Operating RR Company at Track: <u>SEE ATTACHMENT</u>	Required: Contact Information 1	or Construction Inspection:	
RR MP: SEE ATTACHMENT			
RR Subdivision: SEE ATTACHMENT City: SEE ATTACHMENT			
County: SEE ATTACHMENT			
CSJ at this Crossing: SEE ATTACHMENT			$\square$
Highway/Roadway name crossing the railroad: <u>SEE ATTACHMENT</u> # of regularly scheduled trains per day at this crossing: SEE ATTACHMENT			
# of switching movements per day at this crossing: SEE ATTACHMENT			
% of estimated contract cost of work within railroad ROW: SEE ATTACHMENT			То
Scope of Work at this Crossing to Be Performed by State Contractor:			the
REPLACEMENT OF PAVEMENT MARKINGS			htt
			Арр
			Con
			Con
Scope of Work at this Crossing to Be Performed by Railroad Company:			an on
N/A	IV. CONSTRUCTION WORK TO BE PER		
		to be performed by a railroad company is:	
	Required		
** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian,	🗙 Not Required		VII.
or Closed/Abandoned		to be performed by the Railroad Company.	0n
II. OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)	TxDOT must issue a work order for a prior to the work being performed.	any work done by the Railroad Company	
TI OTHER FROME TONK WITHIN RAILROAD RIGHTS-OF-WAI (ROW)			
	V. RAILROAD INSURANCE REQUIREM	ENTS	Se
III. FLAGGING & INSPECTION	Railroad reference number shall b	· · · · · ·	VIII.
# of Days of Railroad Flagging Expected: $\_1$	The Contractor shall confirm the the Bailroad as the insurance lim	insurance requirements with its are subject to change without notice.	Cor
On this project, night or weekend flagging is:		for and on behalf of the Railroad. Where	Sul
Expected	more than one Railroad Company is	operating on the same right of way or	
X Not Expected		are involved and operate on their own aparate insurance policies in the name of	
Flagging services will be provided by:	each Railroad Company.		IX.
🔀 Railroad Company: TxDOT will pay flagging invoices	No direct compensation will be ma	de to the Contractor for providing the	
Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT	insurance coverages shown below o	r any deductibles. These costs are	
	incidental to the various bid ite	ns.	
The Railroad requires a 30 day notice if their flaggers are to be utilized.			
If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.	Type of Insurance	Amount of Coverage (Minimum)	
Contact Information for Flagging:			
UPRR - UP.info@railpros.com	Workers Compensation	\$500,000 / \$500,000 / \$500,000	
Call Center 877-315-0513, Select #1 for flagging - UP.request@nrssinc.net	Commercial General Liability	\$2,000,000 / \$4,000,000	
Call Center 877-984-6777	Business Automobile	\$2,000,000 combined single limit	
BNSF - BNSF.info@railpros.com			
Call Center 877-315-0513, Select #1 for flagging			
KCS - KCS.info@railpros.com	Railroad Pr	otective Liability	
Call Center 877-315-0513, Select #1 for flagging	Not Required		
- Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630			
	🛛 Non - Bridge Projects	\$2,000,000 / \$6,000,000	
OTHERS         Robby Rodriguez, L&WR			
608-787-0658	Bridge Projects	\$5,000,000 / \$10,000,000	
robby.rodriguez@watco.com	0ther		

## RACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

is project, an ROE agreement is: Required

uired: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3) uired: UPRR Maintenance Consent Letter. TxDOT CST to assist.

L& WR

uired: Contractor to obtain (see Item 5, Article 8.4)

th the following railroad companies: \_\_\_\_\_

ew previously approved ROE Agreement templates agreed upon between ate and Railroad, see:

/www.txdot.gov/inside-txdot/division/rail/samples.html

ved ROE Agreement templates are not to be modified by the Contractor.

actor shall not operate within Railroad Right of Way without an executed ruction & Maintenance Agreement between the State and the Railroad and ecuted ROE agreement between the Contractor and the Railroad if required pject.

# ILROAD COORDINATION MEETING

is project, a Railroad Coordination Meeting is: t Required

tem 5, Article 8.1 for more details.

# BCONTRACTORS

actor shall not subcontract work without written consent of TxDOT. Intractors are required to maintain the same insurance coverage quired of the Contractor.

# ERGENCY NOTIFICATION

Case of Railroad Emergency II L&WR Emergency Line ilroad Emergency Line at 888-783-4316 cation: DOT VAR. Milepost VAR. pdivision VAR.

Texas Department		ail ivision						
RAILROAD SCOPE OF WORK PROJECT SPECIFIC DETAILS								
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		-				CK: HIGHWAY		
FILE: RR Scope of Work.dgn ① TxDOT June 2014 REVISIONS	DN: TX[	- 00T	Ск:			•		
FILE: RR Scope of Work.dgn © TxDOT June 2014	DN: TX[ CONT	)OT Sect	CK: JOB			HIGHWAY		

DOT#	CROSSING TYPE	TRACK OWNER	TRACK OPERATOR	RR MP	SUBDIVISION	CITY	COUNTY	HWY/RDWY AT CROSSING	CSJ	TRAINS PER DAY	SWITCHING MOVEMENTS	% OF WORK
017757J	PUBLIC	WATCO	LWR	28.78	SEAGRAVES	MEADOW	TERRY	FM 211	90500117	2	0	

Texas Department of		Rail Division						
RAILROAD SCOPE OF WORK PROJECT SPECIFIC DETAILS								
FILE: RR Scope of Work.dgn	dn: Tx[	TOC	СК:	DW:	СК:			
© TxDOT June 2014	CONT	SECT	JOB		HIGHWAY			
REVISIONS	0905	00	117		VARIOUS			
3/2020	DIST		COUNTY		SHEET NO.			
	LBB	I	UBBOCK, I	ETC.	104			

I. WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED)	Contractor must incorporate Constru construction schedule.	uction Inspection into anticipated	VI. <u>CC</u>
DOT *: SEE ATTACHMENT			
Crossing Type: ** SEE ATTACHMENT	$\bowtie$ Not Required		
RR Company Owning Track at Crossing: SEE ATTACHMENT Operating RR Company at Track: SEE ATTACHMENT	Required: Contact Information	for Construction Inspection:	
RR MP: SEE ATTACHMENT			
RR Subdivision: SEE ATTACHMENT City: SEE ATTACHMENT			
County: SEE ATTACHMENT			
CSJ at this Crossing: <u>SEE ATTACHMENT</u> Highway/Roadway name crossing the railroad; SEE ATTACHMENT			
# of regularly scheduled trains per day at this crossing: SEE ATTACHMENT			
<pre># of switching movements per day at this crossing: SEE ATTACHMENT % of estimated contract cost of work within railroad ROW: SEE ATTACHMENT</pre>			T
			To the
Scope of Work at this Crossing to Be Performed by State Contractor: REPLACEMENT OF PAVEMENT MARKINGS			ntt
			Арр
			Con Con
Scope of Work at this Crossing to Be Performed by Railroad Company:			an on
N/A	IV. CONSTRUCTION WORK TO BE PER		
	On this project, construction work	to be performed by a railroad company is:	
	Not Required		
** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian, or Closed/Abandoned			VII.
		to be performed by the Railroad Company. any work done by the Railroad Company	On
II. OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)	prior to the work being performed.		X
	V. RAILROAD INSURANCE REQUIREN	IENTS	Se
	- Railroad reference number shall b	e provided by TxDOT CST or DO.	VIII.
III. FLAGGING & INSPECTION	The Contractor shall confirm the	· ·	
<ul> <li>of Days of Railroad Flagging Expected: <u>1</u></li> <li>On this project, night or weekend flagging is:</li> </ul>		its are subject to change without notice.	Cor Sul
Expected		for and on behalf of the Railroad. Where operating on the same right of way or	as
∑ Not Expected	where several Railroad Companies	are involved and operate on their own	
Flagging services will be provided by:	separate rights of way, provide s each Railroad Company.	eparate insurance policies in the name of	IX.
Railroad Company: TxDOT will pay flagging invoices	No direct compensation will be ma	de to the Contractor for providing the	
— Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT	insurance coverages shown below o	r any deductibles. These costs are	
Contractor must incorporate flaggers into anticipated construction schedule.	incidental to the various bid ite	ms.	
The Railroad requires a 30 day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not			
ready for scheduled flaggers, any flagging charges will be paid by Contractor.	Type of Insurance	Amount of Coverage (Minimum)	
Contact Information for Flagging:	Workers Compensation		
UPRR - UP.info@railpros.com		\$500,000 / \$500,000 / \$500,000	
Call Center 877-315-0513, Select #1 for flagging - UP.request@nrssinc.net	Commercial General Liability	\$2,000,000 / \$4,000,000	
Call Center 877-984-6777	Business Automobile	\$2,000,000 combined single limit	
BNSF - BNSF.info@railpros.com	L		
Call Center 877-315-0513, Select #1 for flagging			
🗌 KCS - KCS.info@railpros.com	Railroad Pr	rotective Liability	
Call Center 877-315-0513, Select #1 for flagging	Not Required		
- Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630			
	🛛 Non - Bridge Projects	\$2,000,000 / \$6,000,000	
X         OTHERS         Michael B. Simmons, PLSX           806-632-8650         806-632-8650	Bridge Projects	\$5,000,000 / \$10,000,000	
msimmons@plainsmanswitching.com			
	0ther		

## RACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

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# ILROAD COORDINATION MEETING

is project, a Railroad Coordination Meeting is: t Required

tem 5, Article 8.1 for more details.

# BCONTRACTORS

actor shall not subcontract work without written consent of TxDOT. Intractors are required to maintain the same insurance coverage quired of the Contractor.

# ERGENCY NOTIFICATION

Case of Railroad Emergency II PLSX Emergency Line Ilroad Emergency Line at 800-952-7494 cation: DOT VAR. Milepost VAR. Ddivision VAR.

Texas Department	,	Rail Division			
RAILROAD S					
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FILE: RR Scope of Work.dgn	DN: Tx[ cont	)OT Sect	CK: JOB	Dw:	СК:
© TxDOT June 2014 REVISIONS				Dw:	•
© TxDOT June 2014	CONT	SECT	JOB	Dw:	HIGHWAY

DOT#	CROSSING TYPE	TRACK OWNER	TRACK OPERATOR	RR MP	SUBDIVISION	CITY	COUNTY	HWY/RDWY AT CROSSING	CSJ	TRAINS PER DAY	SWITCHING MOVEMENTS	% OF WORK
014982R	PUBLIC	PLSX	PLSX	0.06	LUBBOCK YARD	LUBBOCK	LUBBOCK	SS 331	90500117	1	1	
014973S	PUBLIC	PLSX	PLSX	0.5	LUBBOCK YARD	LUBBOCK	LUBBOCK	SS 331	90500117	1	1	
014987A	PUBLIC	PLSX	BNSF	680.44	SLATON	LUBBOCK	LUBBOCK	SS 331	90500117	1	1	

Texas Department		Rail Divi				
RAILROAD						RK
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© TxDOT June 2014	CONT	SECT	JOB		нD	SHWAY
REVISIONS	0905	00	117		VAR	OUS
3/2020	DIST		COUNTY			SHEET NO.
	LBB	ι	UBBOCK, I	ETC.		106

	I. STORMWATER POLLUTION P	REVENTION-CLEAN WATER	ACT SECTION 402	IV. VEGETATION RESOURCES	VI. HAZARDOUS
	TPDES TXR 150000: Stormwater required for projects with 1 disturbed soil must protect Item 506. List MS4 Operator(s) that m	l or more acres disturbed so for erosion and sedimentati	il. Projects with any on in accordance with	Preserve native vegetation to the extent practical. Contractor must adhere to Construction Specification Requirements Specs 162, 164, 192, 193, 506, 730, 751, 752 in order to comply with requirements for invasive species, beneficial landscaping, and tree/brush removal commitments.	General (ap Contact the Eng * Dead or d * Trash pil * Undesirab
	They may need to be notified		-	Action No.	* Evidence
	No Action Required	Required Action		1. Comply with Executive Order 13112 on Invastion Plant Species.	Does the pro replacements
	Action No. 1. Prevent stormwater pollu accordance with TPDES Per		and sedimentation in	2. Comply with TxDOT Executive Memorandum on beneficial landscaping.	If "No", th If "Yes", th
	for Construction and Ma Edition, Item 7, Section combined acreage to be	ss than one acre of surface PSL's as defined in the Star intenance of Highways, Stree n 7.7, Page 43) The total di disturbed on the project and ed if the disturbed area ind	dar Specifications ts, and Bridges (2014 sturbed acreage is the any contractor PSL's.	<ul> <li>3. Comply with temporary and permanent vegetation stabilization protocols of the SW3P.</li> <li>V. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECIES, CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES AND MIGRATORY BIRDS.</li> </ul>	Are the resu Yes If "Yes", t the notifica activities a 15 working d
	acres during the course	of construction. It may be for project and/or PSL's.		No Action Required Required Action	If "No", th scheduled de
	II. WORK IN OR NEAR STREA	MS, WATERBODIES AND WE	TLANDS CLEAN WATER	Action No.	In either ca
	ACT SECTIONS 401 AND	404		<ol> <li>Do not handle or harm Texas horned lizards, prairie dogs, barn swallows or burrowing owls.</li> </ol>	activities a asbestos con
		filling, dredging, excavati		2. No prairie dog towns can be damaged or crossed with equipment without	Any other ev
		ks, streams, wetlands or we to all of the terms and co		approval of the Engineer. 3. No nests of burrowing owls (in prairie dog holes) can be disturbed	on site. Ha
	the following permit(s):			or damaged. (See General Notes)	No Ac
				<ol> <li>No nests of barn swallows (likely on structures such as bridges) can be disturbed or damaged. (See General Notes)</li> </ol>	VII. OTHER EN
I	🛛 No Permit Required			5. Project actions would be avoided during the lekking season (March 15th- July 15th) between the hours of 3 AM and 9 AM without prior approval	(includes
I	Nationwide Permit 14 - 1 wetlands affected)	PCN not Required (less than	1/10th acre waters or	from the District Environmental Staff. Heavy equipment cannot be operated	No Act
I	Nationwide Permit 14 - 1			during this time to avoid noise impacts to the LPC. 6. Project actions in the following counties will not occurr during lekking	Action No.
	Individual 404 Permit Re		cre, 175 III IIdal waters/	season (March 15th - July 15th): Bailey, Cochran, and Yoakum,	<ol> <li>Maintain equi</li> <li>No PSL's may</li> </ol>
	Other Nationwide Permit			7. Obey the Bald and Golden Eagle Protect act. Do not handle, harm, capture, disturb, or kill the species, do not handle, harm, or take nests, eggs	or stream be 3. No dumping of
	and check Best Management P and post-project TSS. 1. None The elevation of the ordina	ers of the US permit applies Practices planned to control ary high water marks of any ers of the US requiring the Bridge Layouts.	erosion, sedimentation areas requiring work	<ol> <li>8. Obey the Migratory Bird Treaty Act of 1916, of which details there cannot be any handling or harming of migratory bird species, including their eggs, nest, or feathers.</li> <li>9. If any of the listed species are observed, cease work in the immediate area, do not disturb species or habitat and contact the Engineer immediately. The work may not remove active nests from bridges and other structures during nesting season of the birds associated with the nests. If caves or sinkholes are discovered, cease work in the immediate area, and contact the Engineer immediately.</li> </ol>	<ol> <li>Contractor mu</li> <li>Contractor is batch and sir</li> <li>Contractor is</li> <li>Contractor wi sequencing or</li> <li>PSL's beyond the TPDES Contractor the SW3P and</li> </ol>
	Best Management Practic	es:		VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES	9. No waste mate washed into a
	Erosion	Sedimentation	Post-Construction TSS	General (applies to all projects): Comply with the Hazard Communication Act (the Act) for personnel who will be	10. Flood elevati plain regulat
	Temporary Vegetation	Silt Fence	Vegetative Filter Strips	working with hazardous materials by conducting safety meetings prior to	11. TxDOT will pr information of
	Blankets/Matting	Rock Berm	Retention/Irrigation Systems	beginning construction and making workers aware of potential hazards in the workplace. Ensure that all workers are provided with personal protective	to avoid effe
	Mulch	□ Triangular Filter Dike	Extended Detention Basin	equipment appropriate for any hazardous materials used.	12. PSL locations District Envi
	Sodding	Sand Bag Berm	Constructed Wetlands	Obtain and keep on-site Material Safety Data Sheets (MSDS) for all hazardous	13. Contractor sh of business,
	Interceptor Swale	🗌 Straw Bale Dike	🗌 Wet Basin	products used on the project, which may include, but are not limited to the following categories: Paints, acids, solvents, asphalt products, chemical	14. The SWP3, inc
	Diversion Dike	🗌 Brush Berms	Erosion Control Compost	additives, fuels and concrete curing compounds or additives. Provide protected storage, off bare ground and covered, for products which may be hazardous.	disturbing so
	Erosion Control Compost	Erosion Control Compost	Mulch Filter Berm and Socks	Maintain product labelling as required by the Act.	
	Mulch Filter Berm and Socks	Mulch Filter Berm and Socks	Compost Filter Berm and Socks	Maintain an adequate supply of on-site spill response materials, as indicated in	
	Compost Filter Berm and Socks			the MSDS. In the event of a spill, take actions to mitigate the spill as indicated in the MSDS, in accordance with safe work practices, and contact	
		Stone Outlet Sediment Traps		the District Spill Coordinator immediately. The Contractor shall be responsible for the proper containment and cleanup of all product spills.	
		Sediment Basins	Grassy Swales		
	III. CULTURAL RESOURCES			LIST OF ABBREVIATIONS	
	archeological artifacts ( archeological artifacts	Specifications in the event are found during constructio (bones, burnt rock, flint, p ea and contact the Engineer Required Actio	n. Upon discovery of ottery, etc.) cease immediately.	BMP:       Best Management Practice       SPCC:       Spill Prevention Control and Countermeasure         CCP:       Construction General Permit       SW3P:       Storm Water Pollution Prevention Plan         DSHS:       Texas Department of State Health Services       PCN:       Pre-Construction Notification         FHMA:       Federal Highway Administration       PL:       Project Specific Location         MOA:       Memorandum of Agreement       TCEQ:       Texas Commission on Environmental Quality         MOU:       Memorandum of Understanding       TPDES:       Texas Pollutant Discharge Elimination System         MSTA:       Municipal Separate Starmwater Sewer System       TMO:       Texas Popartment of Transportation         NDT:       Notice of Termination       T&E:       Threatened and Endangered Species	
				NMP: Nationwide Permit USACE: U.S. Army Corps of Engineers	
L				NOI: Notice of Intent USFWS: U.S. Fish and Wildlife Service	

IS MATERIALS OR CONTAMINATION ISSUES applies to all projects): ngineer if any of the following are detected: distressed vegetation (not identified as normal) les, drums, canister, barrels, etc. ble smells or odors of leaching or seepage of substances roject involve any bridge class structure rehabilitation or ts (bridge class structures not including box culverts)? No No then no further action is required. then TxDOT is responsible for completing asbestos assessment/inspection. sults of the asbestos inspection positive (is asbestos present)? No No then TxDOT must retain a DSHS licensed asbestos consultant to assist with cation, develop abatement/mitigation procedures, and perform management as necessary. The notification form to DSHS must be postmarked at least days prior to scheduled demolition. then TxDOT is still required to notify DSHS 15 working days prior to any demolition. case, the Contractor is responsible for providing the date(s) for abatement and/or demolition with careful coordination between the Engineer and onsultant in order to minimize construction delays and subsequent claims. evidence indicating possible hazardous materials or contamination discovered Azardous Materials or Contamination Issues Specific to this Project: Required Action Action Required INVIRONMENTAL ISSUES regional issues such as Edwards Aquifer District, etc.) Required Action tion Required quipment muffler systems and work hour restrictions to reduce traffic noise. by be located in the prairie dog towns, playa lakes (wet or dry) eds (wet or dry). of construction material in playa lakes or stream beds regardless owner requests. must obtain historical and archaeological clearances for off-site PSL's. is responsible for air quality permits for concrete and asphalt similar plants. is responsible for water appropriation or impoundment TCEQ permits. will protect environmentally sensitive areas with fencing, work or scheduling as directed. nd the project right-of-way have "individual operator" status under Construction General Permit and the Contractor is responsible for nd any TCEO permits. sterial of any type may be placed at any location where it could be a water of the U.S. or a surface water of Texas. ations will not be increased to a level that would violate flood ations or ordinances. provide an informational packet to project contractors, including on LPC habitat that may occur outside of the ROW and requirements ffects to the LPC or its habitat. ns planned within TxDOT ROW must receive approval from the vironmental staff prior to installation. shall remove all construction debris daily from the waterway by close where opplicable. ncluding best management practices, must be in-place prior to soil.

> Design Division Standard Texas Department of Transportation ENVIRONMENTAL PERMITS. ISSUES AND COMMITMENTS EPIC DN: TXDOT CK: RG DW: VP ILE: epic.dgn ск: AR C)TxDOT: February 2015 CONT SECT JOB HIGHWAY REVISION 0905 00 117 VAR 2-12-2011 (DS) -07-14 ADDED NOTE SECTION IV. DIST COUNTY SHEET NO. -23-2015 SECTION I (CHANGED ITEM 1122 ) ITEM 506, ADDED GRASSY SWALES. LBB LUBBOCK,ETC. 107