SEE SHEET NO. 2	STATE OF TEXAS DEPARTMENT OF TRANSPORTATION
	PLANS OF PROPOSED STATE HIGHWAY IMPROVEMENT
FINAL PLANS	ROUTINE MAINTENANCE CONTRACT RMC 643059001
Letting Date:	- VA RUNNELS COUNTY
Name of Contractor:	
Date Work Began:	NET LENGTH OF PROJECT387,511 FT= 73.392 MI
Date Work Completed:	-
Date Work Accepted:	- LIMITS: VARIOUS LOCATIONS IN SJT DISTRICT
	FOR THE CONSTRUCTION OF PAVEMENT MARKINGS
Project was built according to the Plans & Specifications. These final plans reflect the work done and the quantities shown thereon and on the Final Estimate are Final Quantities.	
Area Engineer Date	
Summary of Change Orders:	SAN ANGELO DISTRICT

Texas Pacifico Transportation Ltd. DOT# 021440Y

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION, NOVEMBER 1. 2014 AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS, SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS FOR ALL FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, JULY 5, 2022).

DATE: Elle:

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	ROUTINE MAINTENANCE CONTRACT							
RMC 643059001								
CONT	SECT		HIGHWAY					
6430	59	001	VA					
DIST		COUNTY		SHEET NO.				
SJT	RU	JNNELS COUN	ITY	1				



RECOMMENDED FOR LETTING:

DocuSigned by:

Chukwuma Osemeke

5E9E8D9FC18C4BB... District Traffic Engineer

APPROVED FOR LETTING:

-DocuSigned by: Allton -, P.E.

419BB3F968D54CF... District Director of Operations

	No.	Title		No.	Title
	1	<u>GENERAL</u> TITLE SHEET		32	TRAFFIC DETAILS
	2	INDEX OF SHEETS			
	3	LOCATION MAP SAN ANGELO AREA			TRAFFIC STAN
	4-5	GENERAL NOTES	#	32	PM(1)-20
	6	ESTIMATE AND QUANITY SHEET	#	33	PM(2)-20
	7	QUANTITY SUMMARY	#	34	PM(3)-20
			#	35	PM(4)-22
			#	36	FPM(1)-12
			#	37	FPM(5)-19
			#	38	TS2-(PL-1)-18
	0	TRAFFIC CONTROL PLAN	#	39	TS2-(PL-2)-18
	8	TRAFFIC CONTROL PLAN GENERAL REQUIREMENTS	#	40	RCD(1)-16
			#	41	RCD(2)-16
,	0.00	TRAFFIC CONTROL PLAN STANDARDS	#	42	RS(3)-13
ŧ ,	9-20	BC (1)-21 THRU BC (12)-21	#	43	RS(4)-13
ŧ,	21	TCP (3-1)-13			
<i>‡</i>	22	TCP (3-2)-13			
Ŧ,	23	TCP (3-3)-14			
Ŧ	24	TCP (3-4)-13			
				44	ENVIRONMENTAI
		ROADWAYDETAILS			
	25-26	SITE 1- FM 2647			
	27-28	SITE 2 - FM 2872			
	29-30	SITE 3 -FM 2887			



DATE

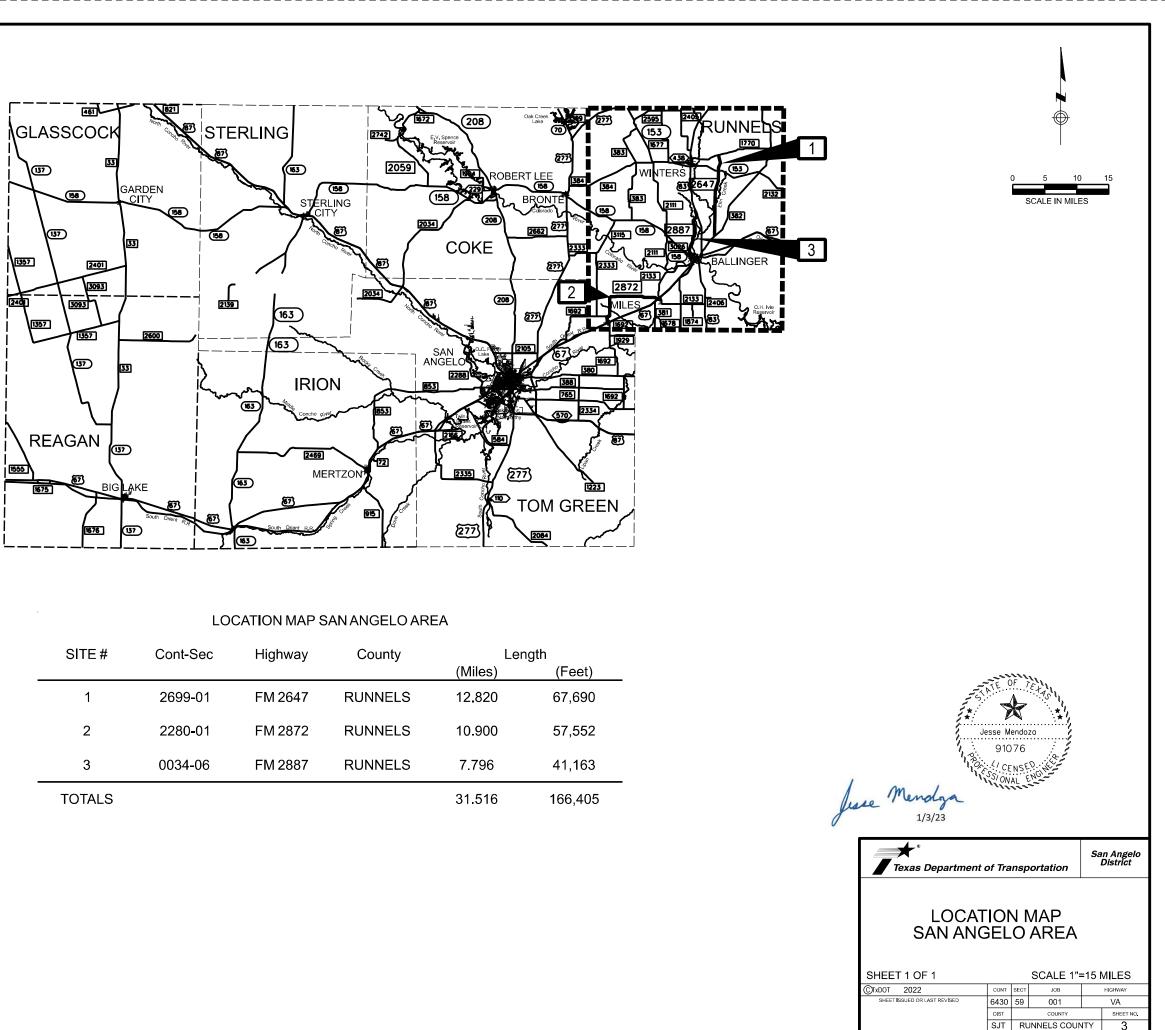
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# <u>'AILS</u> IARKING DETAILS (URBAN)

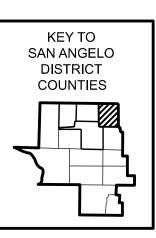
# TANDARDS

NTAL ISSUES NTAL PERMITS ISSUES AND COMMITMENTS

San Ange District INDEX OF SHEETS SHEET 1 OF 1 NOT TO SCALE OF SHEET 1 OF 1 NOT TO SCALE OF SHEET 1 OF 1 OF 1 NOT TO SCALE	Jesse Mendoza Jesse Mendoza 91076 Juse Mendoga 1/3/23									
SHEET 1 OF 1         NOT TO SCALE           DECIFICALLY         ©TXDOT         2022         CONT         SECT         JOB         HIGHWAY		Texas Department of	of Tra	nspo	ortation	Sa	n Angelo District			
ECIFICALLY CTXDOT 2022 CONT SECT JOB HIGHWAY		INDEX O	FS	HE	ETS					
		SHEET 1 OF 1				os	CALE			
AV/LULLN SHEETISSUED OR LAST REVISED CA20 LCA20 LCA		)								
	AVE BEEN	SHEET ISSUED OR LAST REVISED	6430	59	001		VA			
SJT COUNTY SHEETN							SHEET NO.			



SITE #	Cont-Sec	Highway	County	Length		
				(Miles)	(Feet)	
1	2699-01	FM 2647	RUNNELS	12.820	67,690	
2	2280 <b>-</b> 01	FM 2872	RUNNELS	10.900	57,552	
3	0034-06	FM 2887	RUNNELS	7.796	41,163	
TOTALS				31.516	166,405	



1/3/ DATE:

County: TOM GREEN

**Highway:** VARIOUS

Sheet:

Control:6430-59-001

# County: TOM GREEN

Highway: VARIOUS Control:6430-59-001

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

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

## Item 7, "Legal Relations and Responsibilities"

No significant traffic generator events have been identified.

## Item 8, "Prosecution and Progress"

Submit the sequence of work and estimated progress schedule on paper or as a Portable Document Format (PDF) electronic file compatible with Adobe Systems Incorporated "Acrobat Reader XI".

A copy of the contract time determination summary may be obtained by gualified bidders by sending a request to SJT PreliminaryReview@txdot.gov

Nighttime work is allowed. Provide adequate lighting to allow satisfactory inspection.

Restricted work hours are from 7:30 A.M to 8:30 A.M.

Restricted work hours are from 5:00 P.M. to 6:00 P.M.

# Item 9, "Measurement and Payment"

The progress payment period shall end two working days before the last working day of the month. Deliver invoices to be paid as material on hand on or before the end of the progress payment period.

For projects that include a disadvantaged business enterprises (DBE) goal, provide a conversion rate for units of payment for work subcontracted to DBE if units of payments differ from those shown on the plans.

# Item 502, "Barricades, Signs and Traffic Handling"

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

**GENERAL NOTES** 

The following Standard Sheets have been modified: None

Locate the project bulletin board at an approved location within the project limits such as at a field office, staging area, or stockpile, and make accessible to the public at all times. Do not remove the bulletin board from the project until approved. If a construction site notice is required for the project, post a copy at each geographically separated work location.

In those instances where fixed features require, vary the governing slopes indicated in these plans from within the limits to the extent determined.

If Contractor elects to establish a pit within 200 ft. of a public road, construct a barrier or other device in accordance with Natural Resources Code, Chapter 133, and Section 133.041.

Do not use salt water with solids in excess of 10,000 parts per million, as determined by evaporation.

Contractor questions on this project are to be addressed by the following individual:

Chukwuma Osemeke, P.E.; email SJT PreliminaryReview@txdot.gov

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

All contractor guestions will be reviewed by the Engineer. Once a response is developed, it will be posted to FTP TxDOT's Public at the following Address: https://ftp.dot.state.tx.us/pub/txdot-info/Pre-Letting%20Responses/

All questions submitted that generate a response will be posted through this site. The site is organized by District, Project Type (Construction or Maintenance), Letting Date, CCSJ/Project Name.

# Item 5, "Control of the Work"

Responsibility for construction surveying shall conform to Section 5.9.3., "Method C."

# Item 6, "Control of Materials"

When allowed, store materials and equipment in approved areas within the right of way.

Access the work area from the right of way.

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

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

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

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

Sheet:

Texas Department of Transportation										
GENERAL NOTES										
©TxDOT 2022	CONT	SECT	JOB		HIGHWAY					
REVISIONS	6430	59	001		VA					
	DIST		COUNTY		SHEET NO.					
	SJT	RU	JNNELS COUN	ITY	4					

County: TOM GREEN	Sheet: 6
Highway: VARIOUS 6430-59-001	Control:

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

The project is exempt from the Texas Pollutant Discharge Elimination System (TPDES) General Permit (TXR150000). Exempt projects are those that disturb less than one acre or routine maintenance activities that maintain the original line and grade, hydraulic capacity, or original purposes of the site. No temporary erosion control measures or Storm Water Pollution Prevention Plan (SW3P) have been included in the plans.

### Item 666, "Retroreflectorized Pavement Markings"

Place glass beads for pavement markings in accordance with the following table:

		Glass Bead Rates						
Marking Types	Glass Bead (Double Drop) Types	Surface Treatment	Asphalt Concrete Pavement, Microsurfacing, Concrete Pavement					
	Type II	12 LB per 100 SF	6 LB per 100 SF					
TY I markings	Type III	12 LB per 100 SF	6 LB per 100 SF					
TV II markinga	Type II	12 LB per GAL	6 LB per GAL					
TY II markings	Type III	12 LB per GAL	6 LB per GAL					

Apply TY II marking material at a rate of 25 gallons per mile.

The striper speed shall not exceed 5 MPH during application. Convert to gravity-flow beaders (if not in use) to obtain optimum bead application, when directed.

Clean striper tanks before use if there is a build-up of dry paint, as directed. Flush lines and guns before use.

Reference existing markings before performing work that disturbs the markings, so that the markings can be re-established.

Provide a double-drop of Type II and Type III glass beads.

For the purposes of this project, existing no-passing zone markings were not evaluated for adherence to current standards, but were re-established in their existing locations.

The use of portable retroreflectometer is allowed.

General Notes

Sheet A

County: TOM GREEN

Highway: VARIOUS

### Item 6056 "Preformed Centerline Rumble Strip"

Use Option 4 as shown on Standard Sheet RS(3)-13 and Option 6 of RS(4)-13.

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

In addition to the shadow vehicles with truck mounted attenuator (TMA) that are specified as being required on the traffic control plan for this project, provide:

• No additional shadow vehicles with TMA.

Sheet: Control:6430-59-001

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**General Notes** 

Sheet A

	San Angelo District								
GENERAL NOTES									
<b>C</b> TXDOT	2022	CONT	SECT	JOB		HIGHWAY			
	REVISIONS	6430	59	001		VA			
		DIST	COUNTY SHEE			SHEET NO.			
		SJT	RU	JNNELS COUN	ITY	5			



CONTROLLING PROJECT ID 6430-59-001

DISTRICT San Angelo HIGHWAY US0067 COUNTY Tom Green

**Estimate & Quantity Sheet** 

		CONTROL SECTION	ON JOB	6430-59-001			
		PROJ	ECT ID	A00192	2624		
		C	OUNTY	Tom G	reen	TOTAL EST.	TOTAL FINAL
		HIG		USOO	67		
ALT	BID CODE	DESCRIPTION	UNIT	EST. FINAL			
	500-6001	MOBILIZATION	LS	1.000		1.000	
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	мо	1.000		1.000	
	666-6036	REFL PAV MRK TY I (W)8"(SLD)(100MIL)	LF	706.000		706.000	
	666-6048	REFL PAV MRK TY I (W)24"(SLD)(100MIL)	LF	338.000		338.000	
	666-6303	RE PM W/RET REQ TY I (W)4"(SLD)(100MIL)	LF	15,362.000		15,362.000	
	666-6312	RE PM W/RET REQ TY I (Y)4"(BRK)(100MIL)	LF	1,030.000		1,030.000	
	666-6315	RE PM W/RET REQ TY I (Y)4"(SLD)(100MIL)	LF	9,285.000		9,285.000	
	666-6342	REF PROF PAV MRK TY I(W)4"(SLD)(100MIL)	LF	180,051.000		180,051.000	
	666-6344	REF PROF PAV MRK TY I(Y)4"(BRK)(100MIL)	LF	18,230.000		18,230.000	
	666-6345	REF PROF PAV MRK TY I(Y)4"(SLD)(100MIL)	LF	57,270.000		57,270.000	
	6056-6002	PREFORMED CENTERLINE RUMBLE STRIP	LF	30,285.000		30,285.000	
	6185-6005	TMA (MOBILE OPERATION)	DAY	4.000		4.000	
	08	CONTRACTOR FORCE ACCOUNT SAFETY CONTINGENCY (NON-PARTICIPATING)	LS	1.000		1.000	



DISTRICT	COUNTY	CCSJ	SHEET
San Angelo	Tom Green	6430-59-001	6

SUMMARY OF PAVEMENT MARK	ING ITEMS										
LOCATION	666-6036	666-6048	666-6230	666-6303	666-6312	666-6315	666-6342	666-6344	666-6345	6056-6002	6185-6005
	REFL PAV MRK TY I (W) 8" (SLD) (100MIL)	REFL PAV MRK TY I (W)24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4" (SLD)(100MIL)	RE PM W/RET REQ TY I (Y)4" (BRK) (100MIL)	RE PM W/RET REQ TY I (Y)4" (SLD) (100MIL)	REF PROF PAV MRK TY I(W)4" (SLD)(100MIL)	REF PROF PAV MRK TY I(Y)4" (BRK)(100MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD)(100MIL)	PERFORMED CENTERLINE RUMBLE STRIP	TMA (MOBILE OPERATION)
	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	DAY
SITE 1 SHEET 1 OF 2 FM 2647		91						12,630	23,470	3870	1
SITE 2 SHEET 1 OF 2 FM 2872	706	180		7,392	610	4,850	107,712	2,400	8,900	5040	1
SITE 3 SHEET 1 OF 2 FM 2887		67		7,970	420	4,435	72,339	3,200	24,900	21,375	2
PROJECT TOTALS	706	338	0	15362	1030	9285	180051	18230	57270	30285	4

Juse Mendya 1/3/23



Texas Department	of Tra	nsp	oortation		n Angelo District
QUANTITY SHEET 1 OF 1	ſS	UN	<b>/IMARY</b> NOT 1		CALE
CTxDOT 2022	CONT	SECT	JOB		HIGHWAY
REVISIONS	6430	59	001		VA
	DIST		COUNTY		SHEET NO.
	SJT	RU	JNNELS COUN	ITY	7

#### **GENERAL NOTES**

- 1. When a contractor force account "Safety Contingency" has been established for the project, it is for work zone enhancements that were unforeseen in the project planning and design stage, but would improve the effectiveness of the traffic control plan. 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 doing so does not slow implementation of work zone enhancements
- 2. Shadow, lead, trail, and ramp control vehicles shown on the plans are required.
- 3. Use high level warning flags on advance warning signs during daytime operations.
- Provide flaggers at such times and locations as directed to ensure the safe 4. passage of traffic through construction areas. When flaggers are used to control traffic, furnish and install signs CW20-7 "FLAGGER SYMBOL", CW20-7aD "FLAGGER AHEAD", and CW3-4 "BE PREPARED TO STOP". Flaggers shall use 24 in. STOP/SLOW paddles.
- Temporarily relocate existing mailbox assemblies on portable mailbox stands as 5. shown on the plans, or as directed. Use materials conforming to the Compliant Work Zone Traffic Control Device List (CWZTCDL).
- Prior to each work day, make provisions to exclude vehicles from parking within 6. work areas.
- Temporarily relocate existing permanent sign assemblies to temporary supports 7. as shown on the plans, or as directed.
- Omit advance warning signs and furnish and install reduced size signs CW20-1 "ROAD WORK AHEAD" mounted back to back with reduced size signs G20-2 "END ROAD 8. WORK" signs at intersecting city streets and county roads.
- Furnish and install signs CW20-1D "ROAD WORK AHEAD", G20-1aT "ROAD WORK  $\leftarrow$  NEXT X MILES, NEXT X MILES $\rightarrow$ ", and G20-2 "END ROAD WORK" at intersecting state highways. 9.
- 10. Sign and buffer spacing may be altered to fit field conditions, as directed.
- 11. In addition to providing a Contractor's Responsible Person and a phone number for emergency contact, have employee(s) available to respond on the project for emergencies and for taking corrective measures within 30 minutes.
- 12. Cones may be used as the typical channelizing device for freeway surfacing projects.
- 13. 28 in. tall cones will be allowed only for short duration or short term stationary operations when workers are present to maintain the devices upright and in proper location. Intermediate term stationary work areas should use drums, vertical panels, or 42 in tall two-piece conés.
- 14. All construction signs and barricades placed during any phase of work shall remain in place until removal is approved by the Engineer.
- 15. The Engineer may direct the Contractor to furnish additional signs and barricades as required to maintain traffic flow, detours and motorist safety during construction.
- 16. Warning signs for long term stationary work should be mounted at 7 ft. to the bottom of the sign.
- 17. For long term stationary work at night, floodlights should be used to illuminate the work area and equipment crossings. Floodlights shall not produce a disabling glare condition for road users or workers.
- 18. All motor vehicle equipment having an obstructed view to the rear shall have a reverse signal alarm audible above the surrounding noise level.
- 19. Traffic control devices denoted with the triangle symbol on the plans may be
- When sheet WZ(RS) is included in the plans, furnish and install temporary 20. rumble strips for daytime lane closures. Do not use temporary rumble strips on freeways or expressways.
- 21. When sheet WZ(BRK) is included in the plans, furnish and install signs CW21-1T 'GIVE US A BRAKE".
- 22. Flags attached to signs shown in the plans are required.

N

- 23. Signs END ROAD WORK (G20-2) may be omitted when conflicting with G20-2 signs already in place on the project.
- The Engineer will determine advisory speeds to be shown on plaques CW13-1P. 24.
- 25. Temporary work zone devices (including portable barriers) manufactured after December 31, 2019 must have been successfully tested to the 2016 edition of Manual for Assessing Safety Hardware (MASH). Such devices manufactured on or before this date, and successfully tested to either National Cooperative Highway Research Program (NCHRP) Report 350 or the 2009 edition of MASH, may continue to be used.

### TRUCK MOUNTED ATTENUATOR REQUIREMENTS

Provide the number of vehicles with truck mounted attenuators listed in the table below. The Contractor shall determine if multiple operations will occur at the same time, to determine the total number of truck mounted attenuators needed for the project.

WZ(BTS-1)	0	TCP(2-3)	0	TCP(6-1)					
TCP(1-1)	0	TCP(2-4)	0	TCP(6-2)					
TCP(1-2)	0	TCP(2-5)	0	TCP(6-3)					
TCP(1-3)	0	TCP(2 <b>-</b> 6)	0	TCP(6 <b>-</b> 4)					
TCP(1-4)	0	TCP(3-1)	2	TCP(6-5)					
TCP(1-5)	0	TCP(3-2)	3	TCP(6 <b>-</b> 6)					
TCP(1-6)	0	TCP(3-3)	2	TCP(6-7)					
TCP(2-1)	0	TCP(3-4)	1	TCP(6-8)					
TCP(2-2)	0	TCP(5-1)	0	TCP(6-9)					
TRAFFIC CONTROL PLA	N PILOT VEHIC	CLE OPERATION							
TRAFFIC CONTROL PLA	N TWO LANE (	CLOSURES ON FOUR LAN	IE UNDIVIDED H	HIGHWAYS					
TRAFFIC CONTROL PLA	N LANE CLOSI	JRES WITH BARRIER							
TRAFFIC CONTROL PLA	N SHOULDER	CLOSURES WITH BARRIE	R						
TRAFFIC CONTROL PLA	N WORK SPAC	E NEAR SHOULDER							
TRAFFIC CONTROL PLA	N CROSSOVEI	R CLOSURE							
TRAFFIC CONTROL PLA	TRAFFIC CONTROL PLAN TURNAROUND CLOSURE								
TRAFFIC CONTROL PLAN LANE CLOSURES WITH TRAFFIC SIGNAL AND BARRIER									
TRAFFIC CONTROL PLA	N LANE CLOS	JRES WITH TRAFFIC SIG	NAL						
TRAFFIC CONTROL PLA	N FREEWAY C	LOSURE							

#### PORTABLE CHANGEABLE MESSAGE SIGN REQUIREMENTS

Provide the portable changeable message signs listed in the table below. The Contractor shall determine if multiple operations will occur at the same time, to determine the total number of portable changeable message signs needed for the project.

TCP(6-1)	0	TCP(6-4)	0	TCP(6-8)						
TCP(6 <b>-</b> 2)	0	TCP(6 <b>-</b> 6)	0	TCP(6-9)						
TCP(6-3)	0	TCP(6-7)	0							
TRAFFIC CONTROL PLAN LANE CLOSURES WITH BARRIER										
TRAFFIC CONTROL PLA	N SHOULDER	CLOSURES WITH BARRIE	R							
TRAFFIC CONTROL PLAN LANE CLOSURES WITH TRAFFIC SIGNAL AND BARRIER										
TRAFFIC CONTROL PLAN LANE CLOSURES WITH TRAFFIC SIGNAL										
TRAFFIC CONTROL PLA	N FREEWAY C	LOSURE								

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# **TYPICAL USAGE**

MOBILE Work that moves continuously or intermittently (stopping for up to approximately 15 minutes).

SHORT DURATION Work that occupies a location up to 1 hour.

SHORT TERM STATIONARY Daytime work that occupies a location for more than 1 hour in a single daylight period.

INTERMEDIATE TERM STATIONARY Work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting more than 1 hour.

LONG TERM STATIONARY Work that occupies a location more than 3 days.

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Jesse Mendaja 1/3/23



Ť Texas Department of Transportation

San Angelo District

# TRAFFIC CONTROL PLAN **GENERAL REQUIREMENTS**

SHEET 1 OF 1		NOT TO SCALE								
©TxDOT 2022	CONT	SECT	JOB		HIGHWAY					
SHEET ISSUED OR LAST REVISED	6430	59	001		VA					
11-19	DIST		COUNTY		SHEET NO.					
	SJT	RI	JNNELS COUN	ITY	8					

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

- 1. The Barricade and Construction Standard Sheets (BC sheets) are intended to show typical examples for placement of temporary traffic control devices, construction pavement markings, and typical work zone signs. The information contained in these sheets meet or exceed the requirements shown in the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- 2. The development and design of the Traffic Control Plan (TCP) is the responsibility of the Engineer.
- 3. The Contractor may propose changes to the TCP that are signed and sealed by a licensed professional engineer for approval. The Engineer may develop, sign and seal Contractor proposed changes.
- 4. The Contractor is responsible for installing and maintaining the traffic control devices as shown in the plans. The Contractor may not move or change the approximate location of any device without the approval of the Engineer.
- 5. Geometric design of lane shifts and detours should, when possible, meet the applicable design criteria contained in manuals such as the American Association of State Highway and Transportation Officials (AASHTO), "A Policy on Geometric Design of Highways and Streets," the TxDOT "Roadway Design Manual" or engineering judgment.
- 6. When projects abut, the Engineer(s) may omit the END ROAD WORK, TRAFFIC FINES DOUBLE, and other advance warning signs if the signing would be redundant and the work areas appear continuous to the motorists. If the adjacent project is completed first, the Contractor shall erect the necessory worning signs as shown on these sheets, the TCP sheets or as directed by the Engineer. The BEGIN ROAD WORK NEXT X MILES sign shall be revised to show appropriate work zone distance.
- 7. The Engineer may require duplicate warning signs on the median side of divided highways where median width will permit and traffic volumes justify the signing.
- 8. All signs shall be constructed in accordance with the details found in the "Standard Highway Sign Designs for Texas," latest edition. Sign details not shown in this manual shall be shown in the plans or the Engineer shall provide a detail to the Contractor before the sign is manufactured.
- 9. The temporary traffic control devices shown in the illustrations of the BC sheets are examples. As necessary, the Engineer will determine the most appropriate traffic control devices to be used.
- 10. Where highway construction or maintenance work is being undertaken, other than mobile operations as defined by the Texas Manual on Uniform Traffic Control Devices, CSJ limit signs are required. CSJ limit signs are shown on BC(2). The OBEY WARNING SIGNS STATE LAW sign, STAY ALERT TALK OR TEXT LATER and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shall be erected in advance of the CSJ limits. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK signs shall be erected at or near the CSJ limits. For mobile operations, CSJ limit signs are not required.
- 11. Traffic control devices should be in place only while work is actually in progress or a definite need exists.
- 12. The Engineer has the final decision on the location of all traffic control devices.
- 13. Inactive equipment and work vehicles, including workers' private vehicles must be parked away from travellanes. 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.

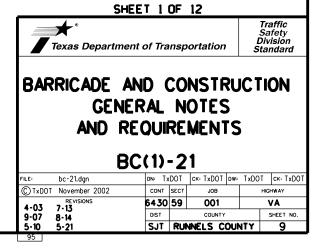
#### COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

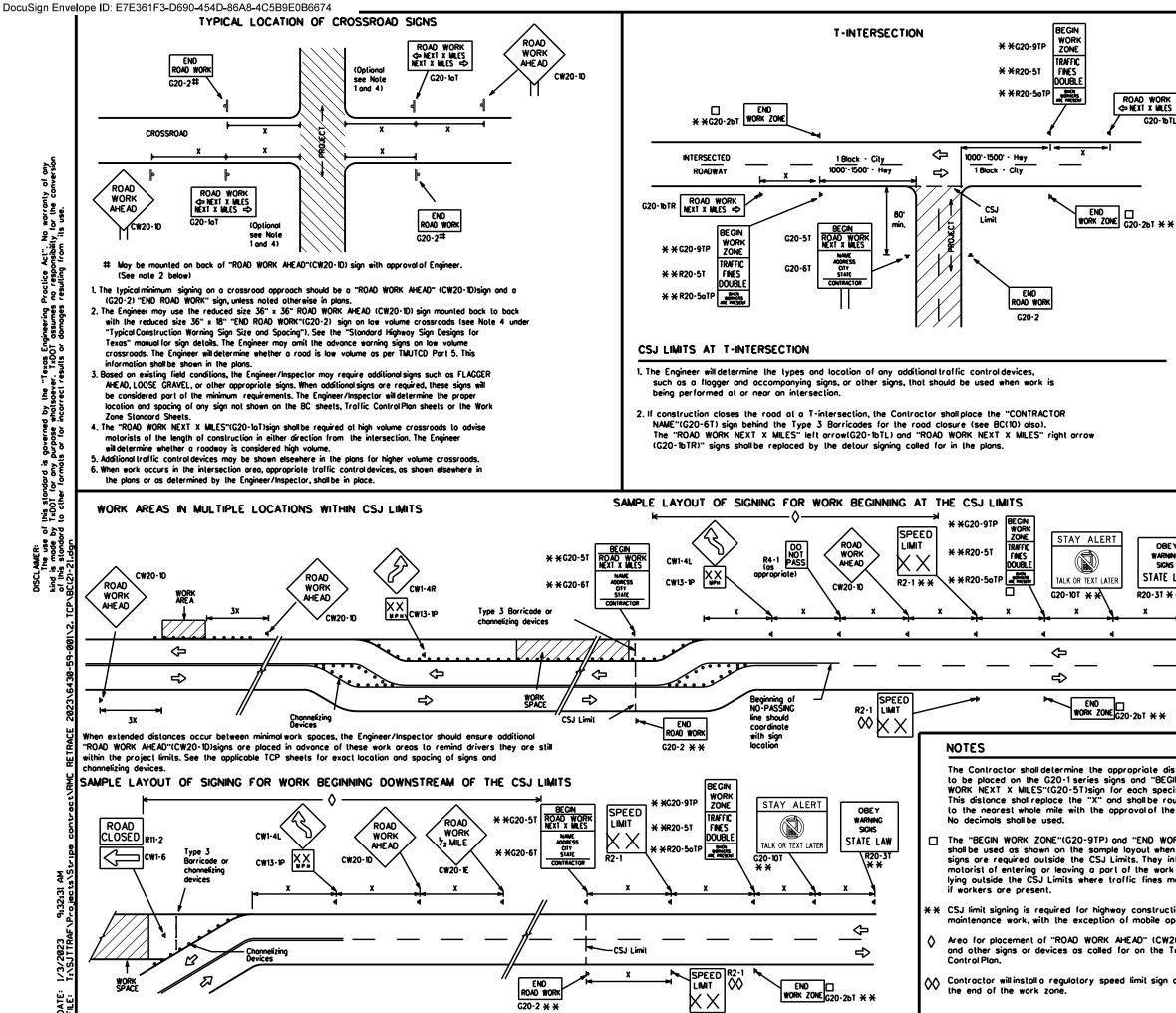
- 1. Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources.
- 2. Work zone traffic control devices shall be compliant with the Manual for Assessing safety Hardware (MASH).

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

INE AT ST (CWZTCD) NUALS)"

(TMUTCD)





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×		CW1, CW2,	36" × 36'	· 48'	× 48"			45 50 55 60	320 400 500 <sup>2</sup> 600 <sup>2</sup>	
		CW3, CW4, CW5, CW6, CW8-3, CW10, CW12	8" × 48'	· 48'	' x 48"			65 70 75 80	700 <sup>2</sup> 800 <sup>2</sup> 900 <sup>2</sup> 1000 <sup>2</sup>	
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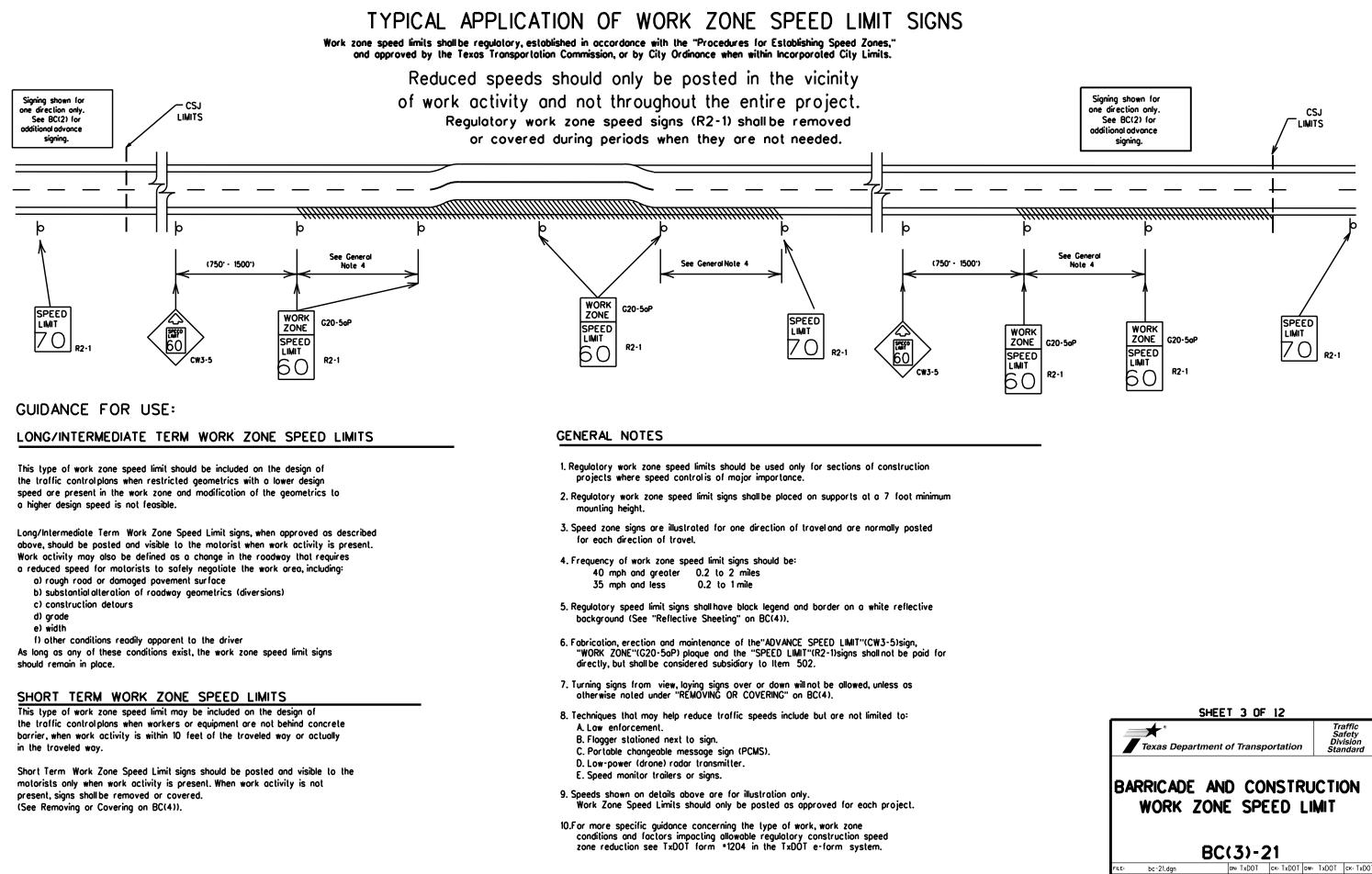
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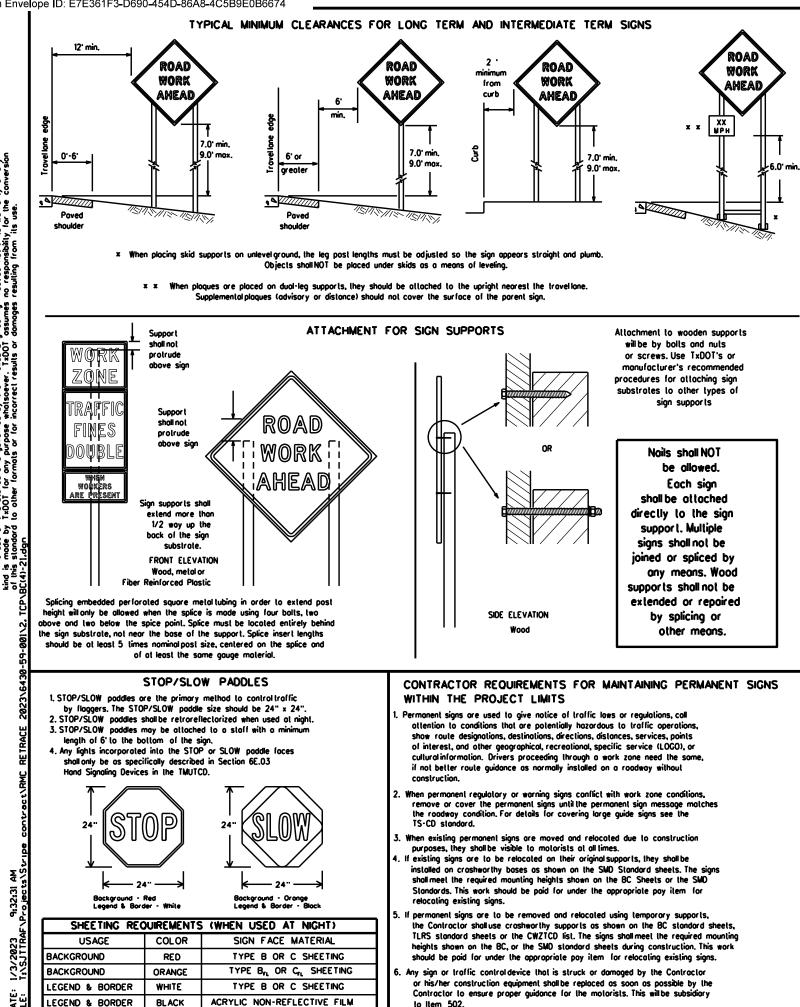
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#### GENERAL NOTES FOR WORK ZONE SIGNS

- Contractor shallinstall and maintain signs in a straight and plumb condition and/or as directed by the Engineer. Wooden sign posts shall be painted white.
- Barricades shall NOT be used as sign supports.
- All signs shall be installed in accordance with the plans or as directed by the Engineer. Signs shall be used to regulate, warn, and guide the traveling public safely through the work zone.
- 5. The Contractor may furnish either the sign design shown in the plans or in the "Standard Highway Sign Designs for Texos" (SHSD). The Engineer/Inspector may require the Contractor to furnish other work zone signs that are shown in the TMUTCD but may have been amilted from the plans. Any variation in the plans shall be documented by written agreement between the Engineer and the Contractor's Responsible Person. All changes must be documented in writing before being implemented. This can include documenting the changes in the inspector's TxDOT diary and having both the inspector and Contractor initial and date the agreed upon changes. The Contractor shall furnish sign supports listed in the "Compliant Work Zone Traffic Control Device List" (CWZTCD) for small roadside
- signs. Supports for temporary large roadside signs shall meet the requirements detailed on the Temporary Large Roadside Signs (TLRS) standard sheets. The Contractor shall install the sign support in accordance with the manufacturer's recommendations. If there is a question regarding installation procedures, the Contractor shall furnish the Engineer a copy of the manufacturer's installation recommendations so the Engineer can verify the correct procedures are being followed.
- The Contractor is responsible for installing signs on approved supports and replacing signs with damaged or cracked substrates and/or domoged or morred reflective sheeting as directed by the Engineer/Inspector.
- Identification markings may be shown only on the back of the sign substrate. The maximum height of letters and/or company logos used for identification shall be 1 inch.

#### . The Contractor shall replace damaged wood posts. New or damaged wood sign posts shall not be spliced.

- DURATION OF WORK (as defined by the "Texas Manualan Uniform Traffic ControlDevices" Part 6) The types of sign supports, sign mounting height, the size of signs, and the type of sign substrates can vary based on the type of work being performed. The Engineer is responsible for selecting the appropriate size sign for the type of work being performed. The Contractor is responsible for ensuring the sign support, sign mounting height and substrate meets manufacturer's recommendations in
- regard to croshworthiness and duration of work requirements.
- a. Long-term stationary work that occupies a location more than 3 days. b. Intermediate term stationary - work that accupies a location more than one daylight period up to 3 days, or nightlime work losting more than one hour.
- c. Shorl-term stationary daylime work that occupies a location for more than 1 hour in a single daylight period. d. Short, duration - work that occupies a location up to 1 hour.
- e. Mobile work that moves continuously or intermittently (stopping for up to approximately 15 minutes.)

- SIGN MOUNTING HEIGHT. I. The bollom of Long-lerm/intermediate-lerm signs shallbe at least 7 feet, but not more than 9 feet, above the poved surface, except as shown for supplemental plaques mounted below other signs. 2. The bottom of Short-term/Short Duration signs shall be a minimum of 1 foot above the pavement surface but no more than 2 feet above
- the ground. 3. Long-term/intermediate-term Signs may be used in lieu of Short-term/Short Duration signing.
- 4. Short-term/Short Duration signs shall be used only during daylight and shall be removed at the end of the workday or raised to
- appropriate Long-term/Intermediate sign height.

# SIZE OF SIGNS

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

### SIGN SUBSTRATES

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

### REFLECTIVE SHEETING

- 1. All signs shall be retroreflective and constructed of sheeting meeting the color and retro-reflectivity requirements of DMS-8300 for rigid signs or DMS-8310 for roll-up signs. The web oddress for DMS specifications is shown on BC(1).
- While sheeting, meeting the requirements of DMS-8300 Type A, shall be used for signs with a while background.

## SIGN LETTERS

1. All sign letters and numbers shall be clear, and open rounded type uppercase alphabet letters as approved by the Federal Highway Administration (FHWA) and as published in the "Standard Highway Sign Design for Texas" manual Signs, letters and numbers shall be of first class workmanship in accordance with Department Standards and Specifications.

### REMOVING OR COVERING

- When sign messages may be confusing or do not apply, the signs shall be removed or completely covered.
   Long-term stationary or intermediate stationary signs installed on square metal lubing may be turned away from traffic 90 degrees when the sign message is not applicable. This technique may not be used for signs installed in the median of divided highways or near any
- intersections where the sign may be seen from approaching traffic. Signs installed on wooden skids shall not be turned at 90 degree angles to the roodway. These signs should be removed or completely
- covered when not required. When signs are covered, the material used shall be opaque, such as heavy mitblack plastic, or other materials which will cover the entire sign face and maintain their opaque properties under automobile headlights at night, without damaging the sign sheeting.
- . Burlap shall NOT be used to cover signs.
- . Duct tape or other adhesive material shall NOT be allixed 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 lied shut to keep the sand from spilling and to maintain
- constant weight. 3. Rock, concrete, iron, steel or other solid objects shall not be permitted
- for use as sign support weights. Sondbags should weigh a minimum of 35 lbs and a maximum of 50 lbs. Sondbags should be made of a durable material that lears upon vehicular
- impact. Rubber (such as lire inner lubes) shall NOT be used.
- Rubber ballasts designed for channelizing devices should not be used fo ballost on portable sign supports. Sign supports designed and mouldatured with rubber bases may be used when shown on the CWZTCD list.
- Sondbags shall only be placed along or loid 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. Sandbaas shall be placed
- along the length of the skids to weigh down the sign support. Sondbags shall NOT be placed under the skid and shall not be used to level sion 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 arange or fluorescent red-arange in color. Flags shall not be allowed to cover any partian of the sign face.

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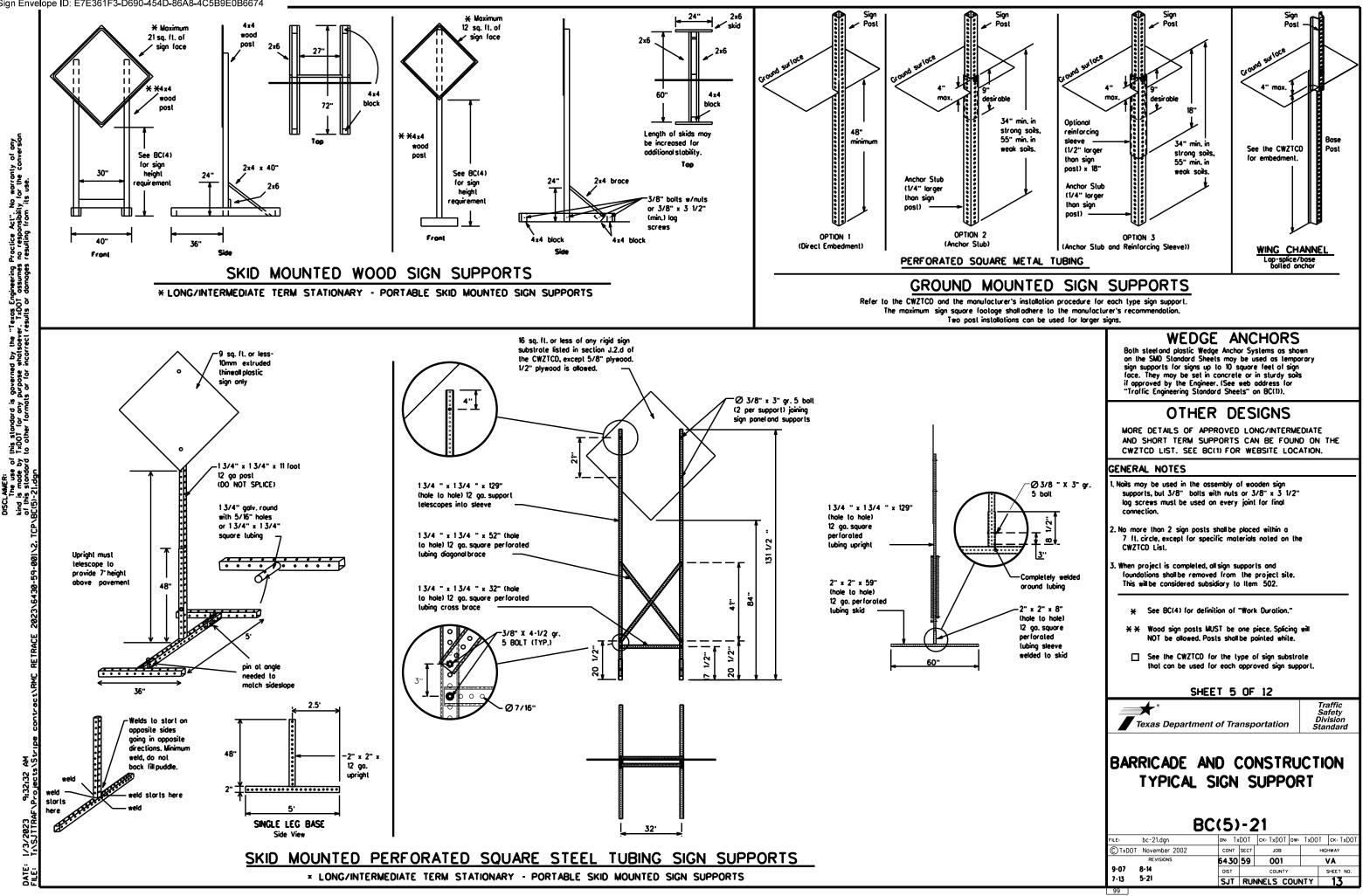
Regulatory signs shall be mounted at least 7 feet, but not more than 9 feet, above the paved surface regardless of work duration.

3. Orange sheeting, meeting the requirements of DMS-8300 Type B  $\,$  or Type G , shall be used for rigid signs with orange backgrounds.

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

### PORTABLE CHANGEABLE MESSAGE SIGNS

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

WORD OR PHRASE	ABBREVIATION	WORD OR PHRASE	ABBREVIATION
Access Rood A	CCS RD	Najor 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	Northbound	(route) N
Construction Ahead	CONST AND	Parking Road	PK ING RD
CROSSING	XING		
Detour Route	DETOUR RTE	Right Lone	RT LN SAT
Do Not	DONT	Saturday	SERV RD
East	E	Service Rood	
Eastbound	(route) E	Shoulder	SHLDR SLIP
Emergency	EMER	Slippery	IS IF
Emergency Vehicle	EMER VEH	South	(route) S
Entrance, Enter	ENT	Southbound	SPD
Express Lane	EXP LN	Speed	SI
Expressway	EXPWY	Street	SUN
XXXX Feet	XXXX FT		PHONE
Fog Ahead	FOG AHD	Telephone	TEMP
Freeway	FRWY, FWY	Temporary Thursday	
Freeway Blocked	FWY BLKD	To Downtown	TO DWNTN
Friday	FRI	Iraffic	
Hazardous Driving			
Hazardous Material		Trovelers	TRVLRS
High-Occupancy	HOV	Tuesday	TUES
Vehicle		Time Minutes	TIME MIN
Highway	HWY	Upper Level	UPR LEVEL
Hour (s)	HR, HRS	Vehicles (s)	VEH, VEHS
Information	INFO	Warning	WARN
It is	ITS	Wednesday	WED
Junction	JCT	Weight Limit	WT LIMIT
Left	LFT	West	Ŵ
Left Lane		Westbound	(route) W
	LN CLOSED	Wet Pavement	WET PVMT
Lower Level		Will Not	WONT
Maintenance	MAINT		

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

RECOMMENDED	PHASES	AND	FORMATS	FOR	PCMS	MESSAGES	DUR

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

# Phase 1: Condition Lists

### Road/Lane/Ramp Closure List

	p closure List	Uther C
FREEWAY CLOSED X MILE	FRONTAGE ROAD CLOSED	ROADWOR XXX FT
ROAD CLOSED AT SH XXX	SHOULDER CLOSED XXX FT	FLAGGER XXXX FT
ROAD CLSD AT FM XXXX	RIGHT LN CLOSED XXX FT	RIGHT LN NARROWS XXXX FT
RIGHT X LANES CLOSED	RIGHT X LANES OPEN	MERGING TRAFFIC XXXX FT
CENTER LANE CLOSED	DAYTIME LANE CLOSURES	LOOSE GRAVEL XXXX FT
NIGHT LANE CLOSURES	I-XX SOUTH EXIT CLOSED	DETOUR X MILE
VARIOUS LANES CLOSED	EXIT XXX CLOSED X MILE	ROADWOR PAST SH XXXX
EXIT CLOSED	RIGHT LN TO BE CLOSED	BUMP XXXX FT
MALL DRIVEWAY CLOSED	X LANES CLOSED TUE - FRI	TRAFFIC SIGNAL XXXX FT
XXXXXXXX BL VD CLOSED	× LANES SHIFT in PI	hose 1 must be used with

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

#### List MERGE FORM X LINES RIGHT RIGHT DETOUR USE XXXXX NEXT X EXITS RD EXIT USE EXIT USE 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 TO STOP REDUCE END SPEED SHOULDER XXX FT USE WATCH USE OTHER FOR ROUTES WORKERS STAY IN LANE

Action to Take/Effect on Travel

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

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

### FULL MATRIX PCMS SIGNS

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

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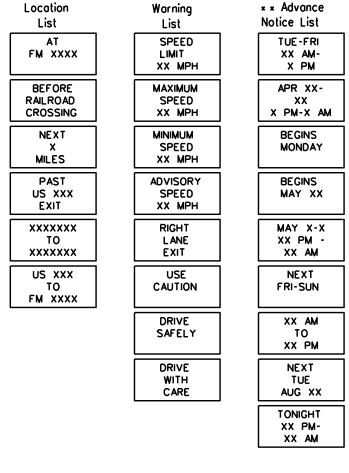
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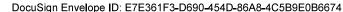
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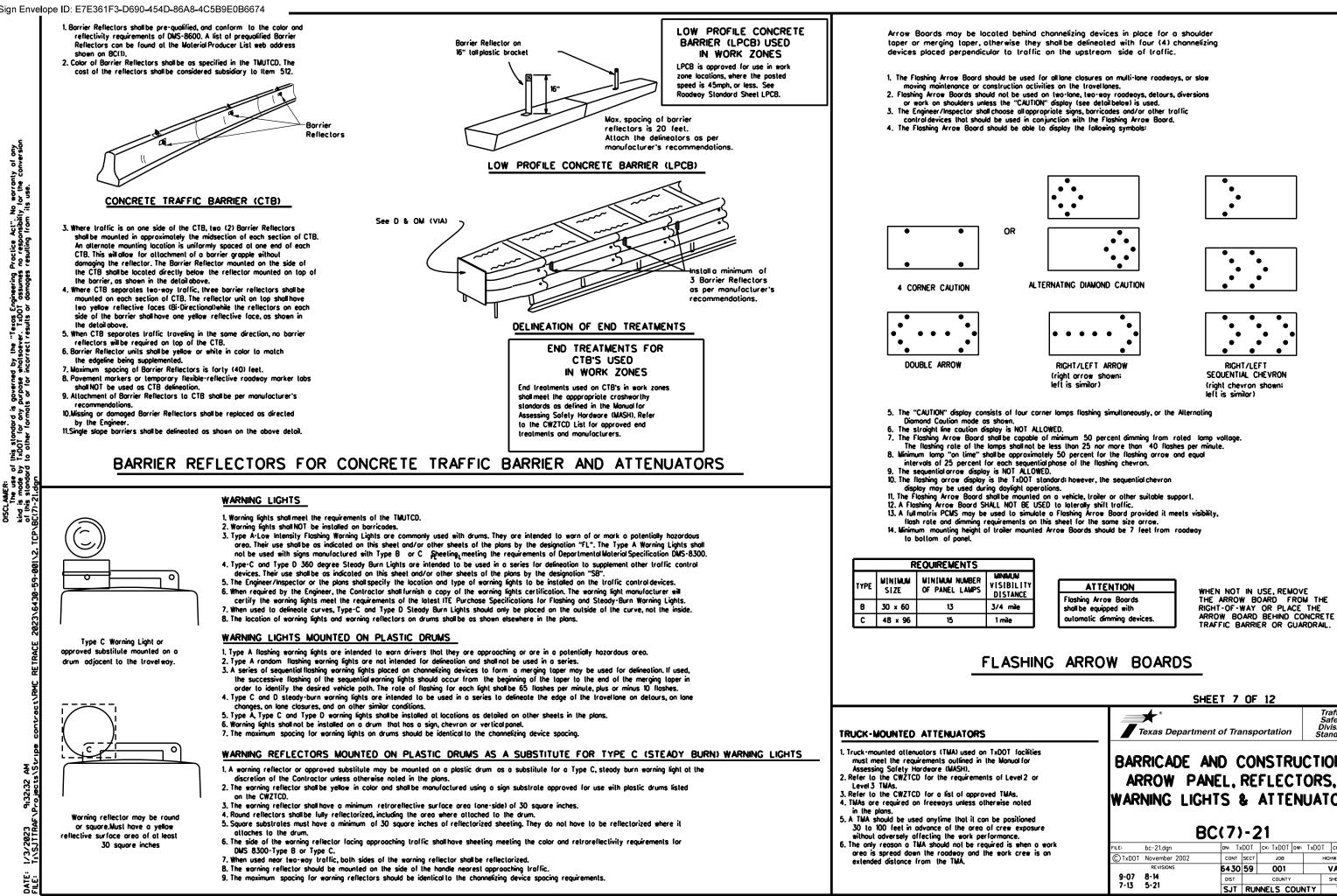
# Phase 2: Possible Component Lists



**x x** See Application Guidelines Note 6.

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#### GENERAL NOTES

- 1. For long term stationary work zones on freeways, drums shall be used as the primory 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 opproved 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, boses, and related materials shall exhibit good workmanship and shall be free from objectionable marks or defects that would adversely affect their appearance or serviceability.
- 6. The Contractor shall have a maximum of 24 hours to replace any plastic drums identified for replacement by the Engineer/Inspector. The replacement device must be an approved device.

### GENERAL DESIGN REQUIREMENTS

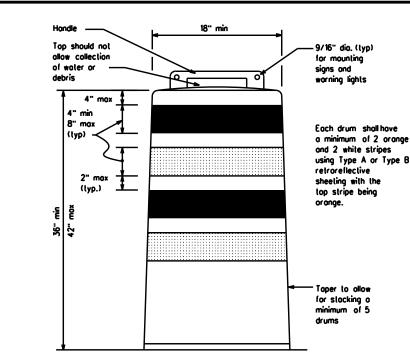
- Pre-qualified plastic drums shall meet the following requirements:
- 1. Plastic drums shall be a two-piece design; the "body" of the drum shall be the top portion and the "base" shall be the bottom.
- 2. The body and base shall lock together in such a manner that the body separates from the base when impacted by a vehicle traveling at a speed of 20 MPH or greater but prevents accidental separation due to normal handling and/or air lurbulence 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
- 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.

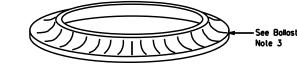
### RETROREFLECTIVE SHEETING

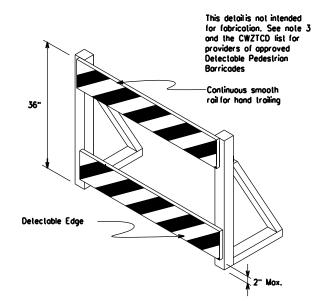
- 1. The stripes used on drums shall be constructed of sheeting meeting the color and retrorellectivity requirements of Deportmental Materials Specification DMS-8300, "Sign Face Materials." Type A or Type B reflective sheeting shall be supplied unless otherwise specified in the plans.
- 2. The sheeting 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. Unboliasted bases shall be large enough to hold up to 50 lbs. of sand. This base, when filled with the ballost material, should weigh between 35 lbs (minimum) and 50 lbs (maximum). The ballast may be sand in one to three sondbags separate from the base, sond in a sond-filled plastic base, or other ballasting devices as approved by the Engineer. Stacking of sandbags will be allowed, however height of sandbags above pavemen surface may not exceed 12 inches.
- Boses with built-in bollost 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 ballost 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 boltoms 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 povement.





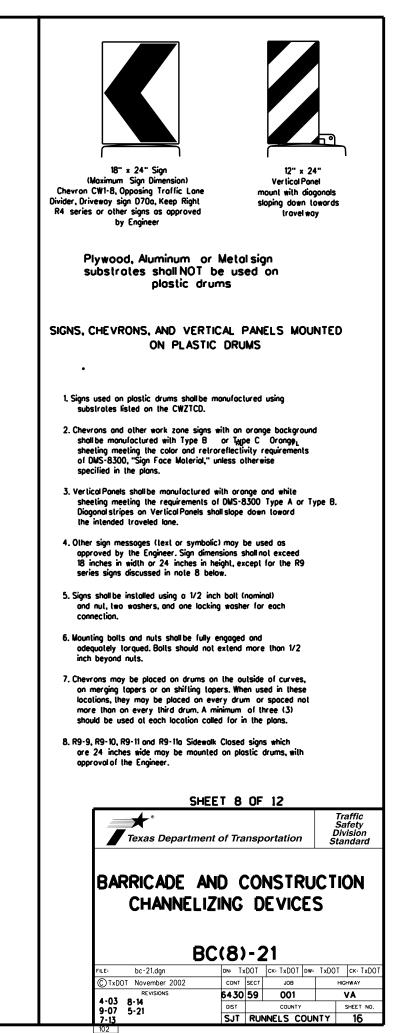


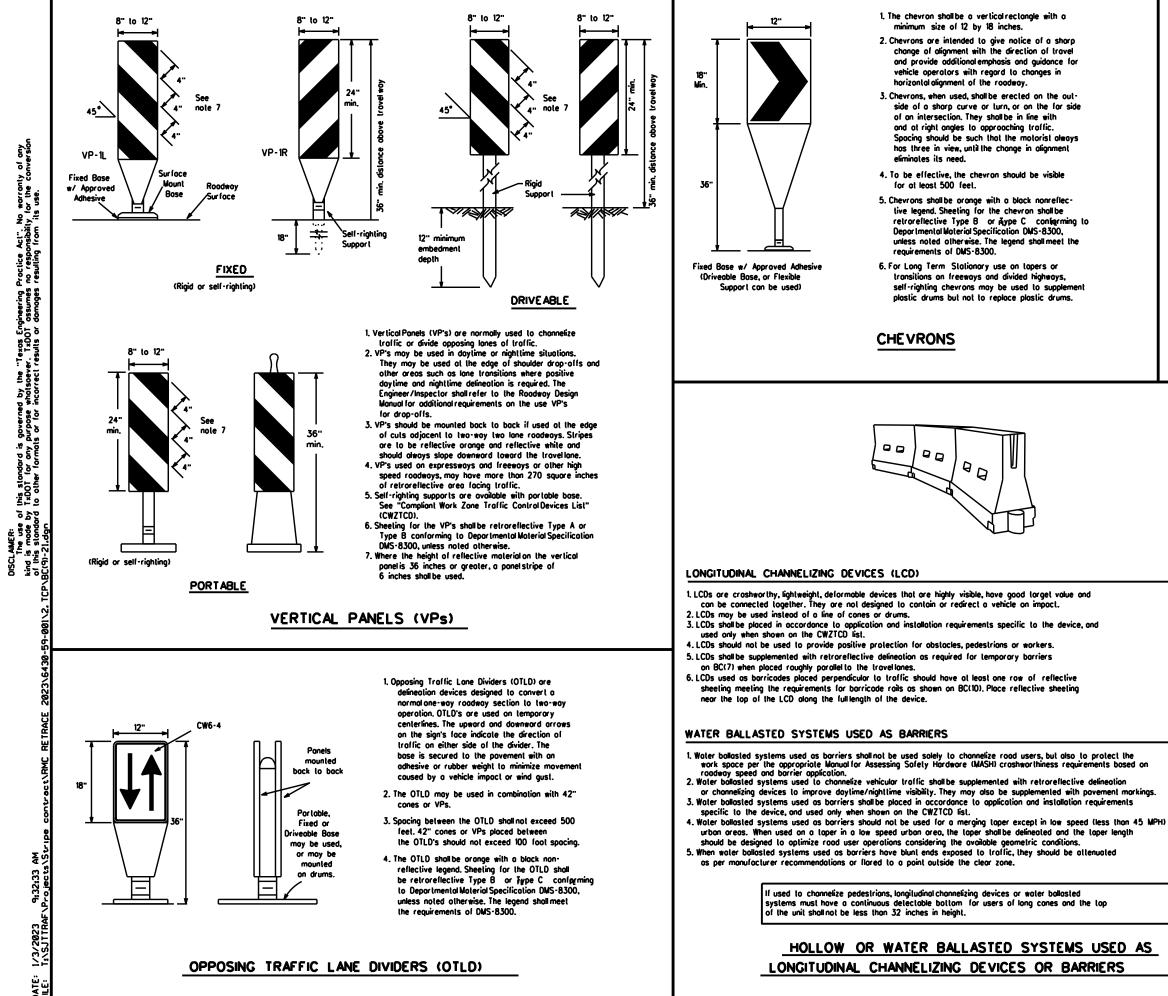
#### DETECTABLE PEDESTRIAN BARRICADES

- 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 delectable 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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#### 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 Manualon 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 erront 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 spocing and alignment.
- 5. Portable bases shall be fabricated from virgin and/or recycled rubber. The portable bases shall weigh a minimum of 30 lbs.
- 6. Povement surfaces shall be prepared in a manner that ensures proper bonding between the odhesives, the fixed mount bases and the pavement surface. Adhesives shall be prepared and applied according to the manufacturer's
- 7. The installation and removal of channelizing devices shall not cause detrimental effects to the final povement surfaces, including povement 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.

Posled Speed	Formula	0	Minimum Iesiroble er Lengl x x		Suggested Spocing Chonneli Devi	g of zing
		10 <sup>.</sup> Offset	11 <sup>.</sup> Offset	12° Offset	On a Taper	On a Tangent
30	2	150'	165'	180'	30'	60'
35	L. <u>WS<sup>2</sup></u>	205'	225'	245	35'	70'
40	80	265'	295'	320'	40'	80'
45		450'	495'	540'	45'	90'
50		500 <sup>.</sup>	550'	600'	50'	100'
55	L-WS	550'	605'	660	55'	110'
60		600'	660.	720'	60 <sup>.</sup>	120 <sup>.</sup>
65	]	650'	715'	780'	65'	130'
70	]	700 <sup>.</sup>	770'	840'	70'	140'
75	]	750'	825'	900.	75'	150 <sup>.</sup>
80		800'	880.	960'	80'	160'

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

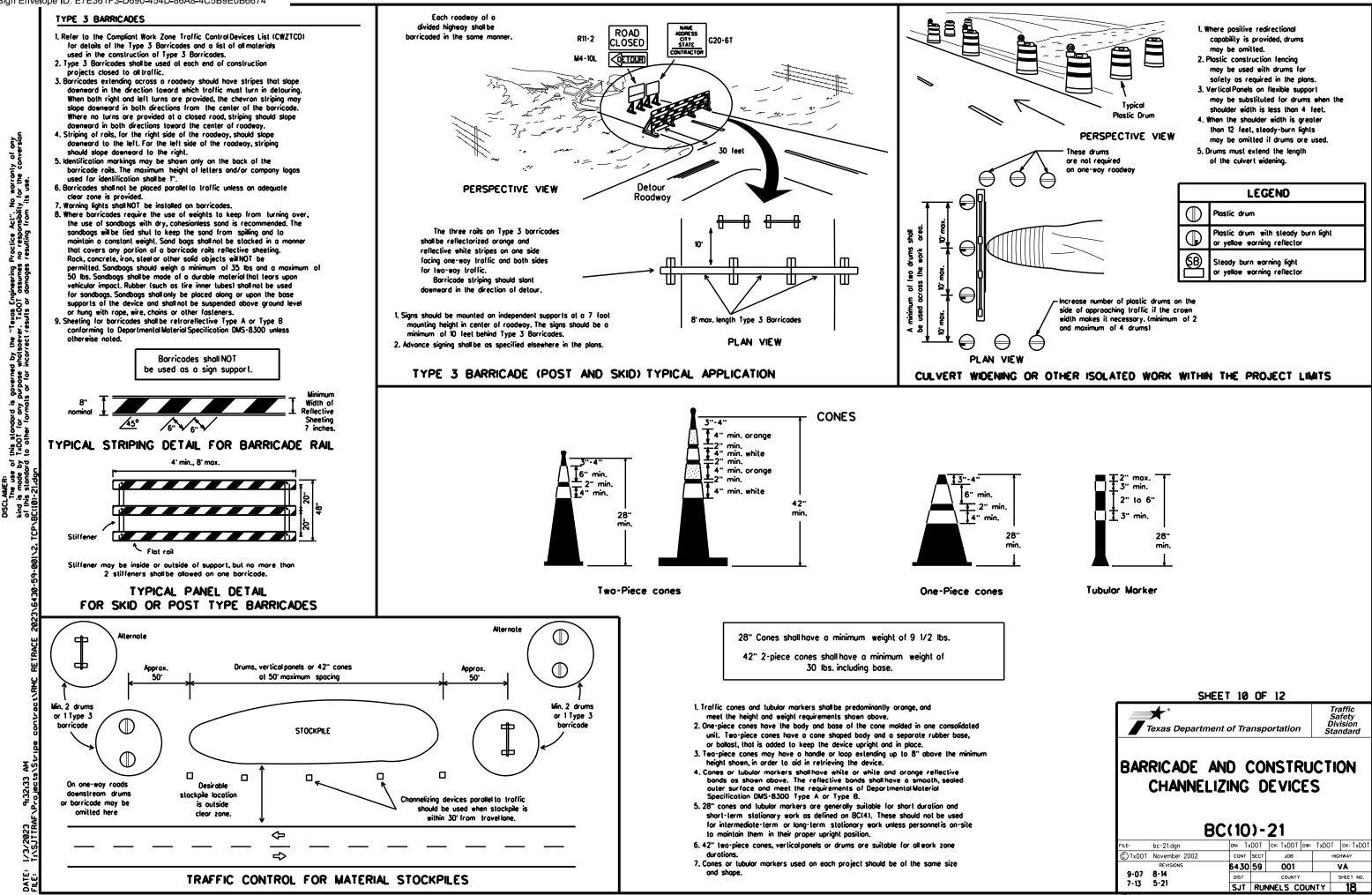
S-Posted Speed (MPH)



SHEET 9 OF 12	
Texas Department of Transportation	Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

C TXDOT         November         2002         CONT         SECT         JOB         HIGHWAY           REVISIONS         64.30         59         001         VA           9-07         8-14         DIST         COUNTY         SHEET NO	BC(9)-21									
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## WORK ZONE PAVEMENT MARKINGS

#### GENERAL

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

#### RAISED PAVEMENT MARKERS

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

#### PREFABRICATED PAVEMENT MARKINGS

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

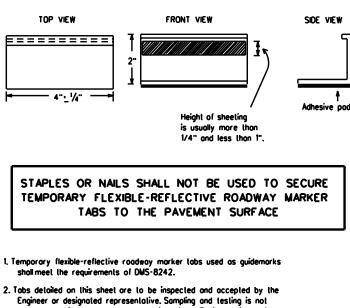
#### MAINTAINING WORK ZONE PAVEMENT MARKINGS

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

#### REMOVAL OF PAVEMENT MARKINGS

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

# **Temporary Flexible-Reflective** Roadway Marker Tabs



- normally required, however at the option of the Engineer, either "A" or "B" below may be imposed to assure quality before placement on the roadway.
- A Select five (5) or more tabs at random from each lot or shipment and submit to the Construction Division, Materials and Pavement Section to determine specification compliance.
- B. Select five (5) tabs and perform the following test. Affix five (5) tabs at 24 inch intervals on an asphaltic povement in a straight line. Using a medium size passenger vehicle or pickup, run over the markers with the front and rear tires at a speed of 35 to 40 miles per hour, four (4) times in each direction. No more than one (1) out of the five (5) reflective surfaces shall be lost or displaced as a result of this test.

3. Small design variances may be noted between tab manufacturers.

4. See Standard Sheet WZ(STPM) for tab placement on new pavements. See Standard Sheet TCP(7-1) for tab placement on seal coat work.

#### RAISED PAVEMENT MARKERS USED AS GUIDEMARKS

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

Guidemarks shall be designated as:

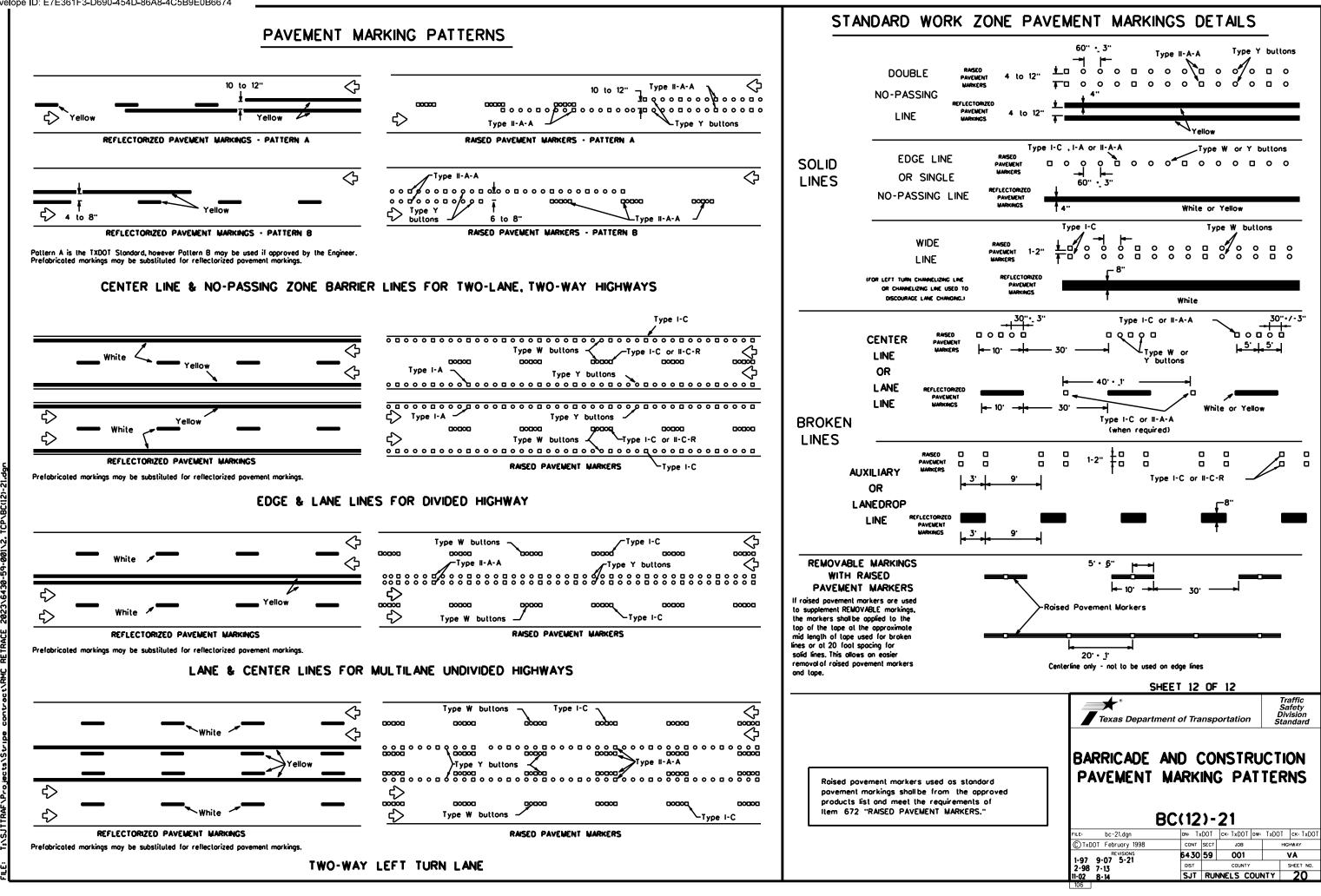
YELLOW - (Iwo omber reflective surfaces with yellow body). WHITE - (one silver reflective surface with white body).

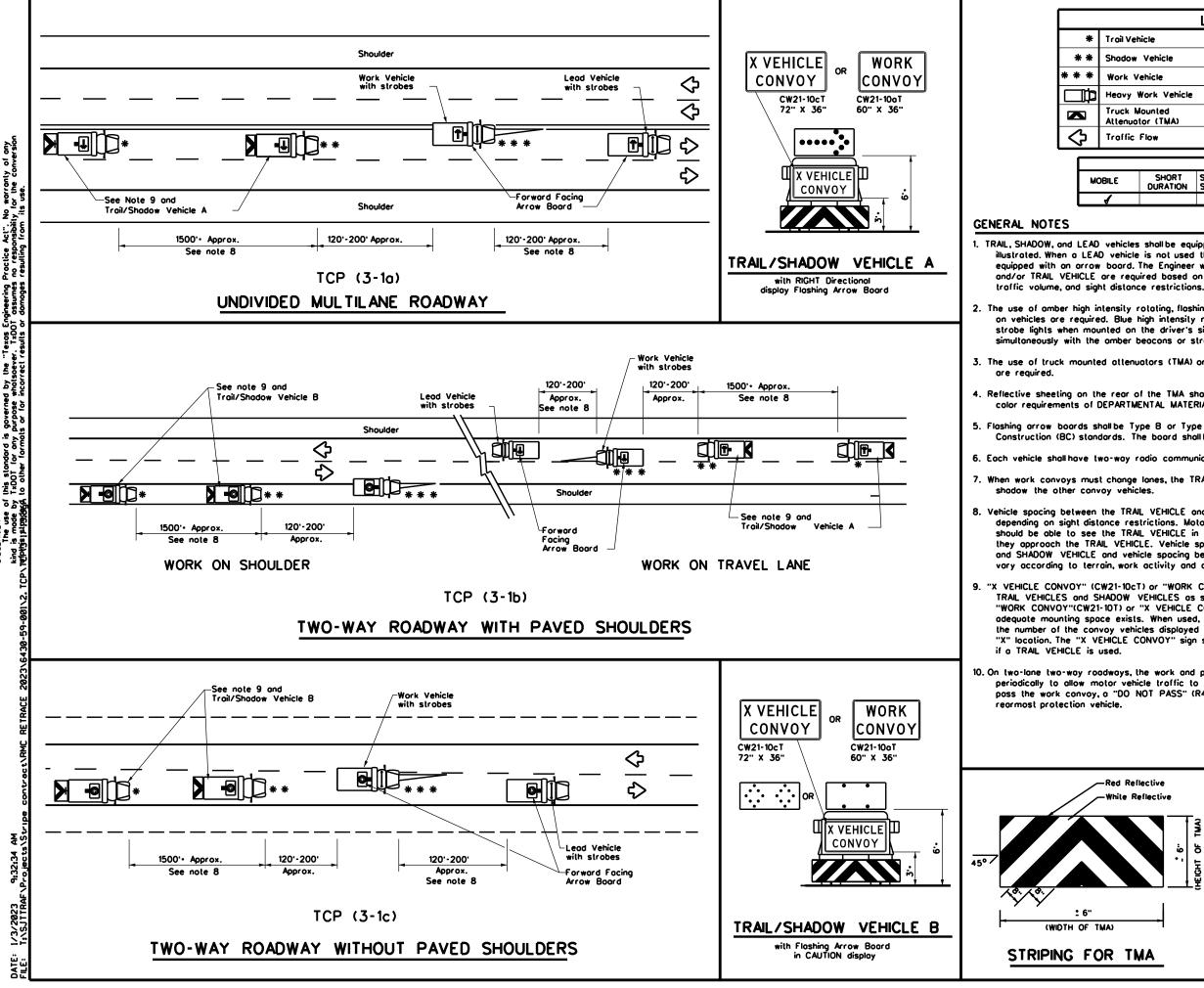
DEPARTMENTAL MATERIAL SPECIFICATIONS DMS-4200 PAVEMENT MARKERS (REFLECTORIZED) TRAFFIC BUTTONS DMS-4300 EPOXY AND ADHESIVES DMS-6100 BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS DMS-6130 PERMANENT PREFABRICATED PAVEMENT MARKINGS DMS-8240 TEMPORARY REMOVABLE, PREFABRICATED DMS-8241 PAVEMENT MARKINGS TEMPORARY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

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

SHEET 11 OF 12								
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BARRICADE AND CONSTRUCTION PAVEMENT MARKINGS BC(11)-21								
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Shodow Vehicle	ARROW BOARD DISPLAY						
Work Vehicle	•	RIGHT Directional					
Heavy Work Vehicle	F	LEFT Directional					
Truck Mounted Attenuator (TMA)	<b>₽</b>	Double Arrow					
Traffic Flow		CAUTION (Alternating Diamond or 4 Corner Flash)					
TYPICAL USAGE							
	T TERM	INTERMEDIATE LONG TERM					

LE	DURATION	TERM STATIONARY	STATIONARY
1			

1. 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,

2. The use of amber high intensity rotating, flashing, oscillating, or strobe lights on vehicles are required. Blue high intensity rotating, flashing, ascillating 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

4. 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.

5. 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.

6. Each vehicle shall have two-way radio communication capability.

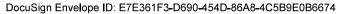
7. When work convoys must change lanes, the TRAIL VEHICLE should change lanes first to

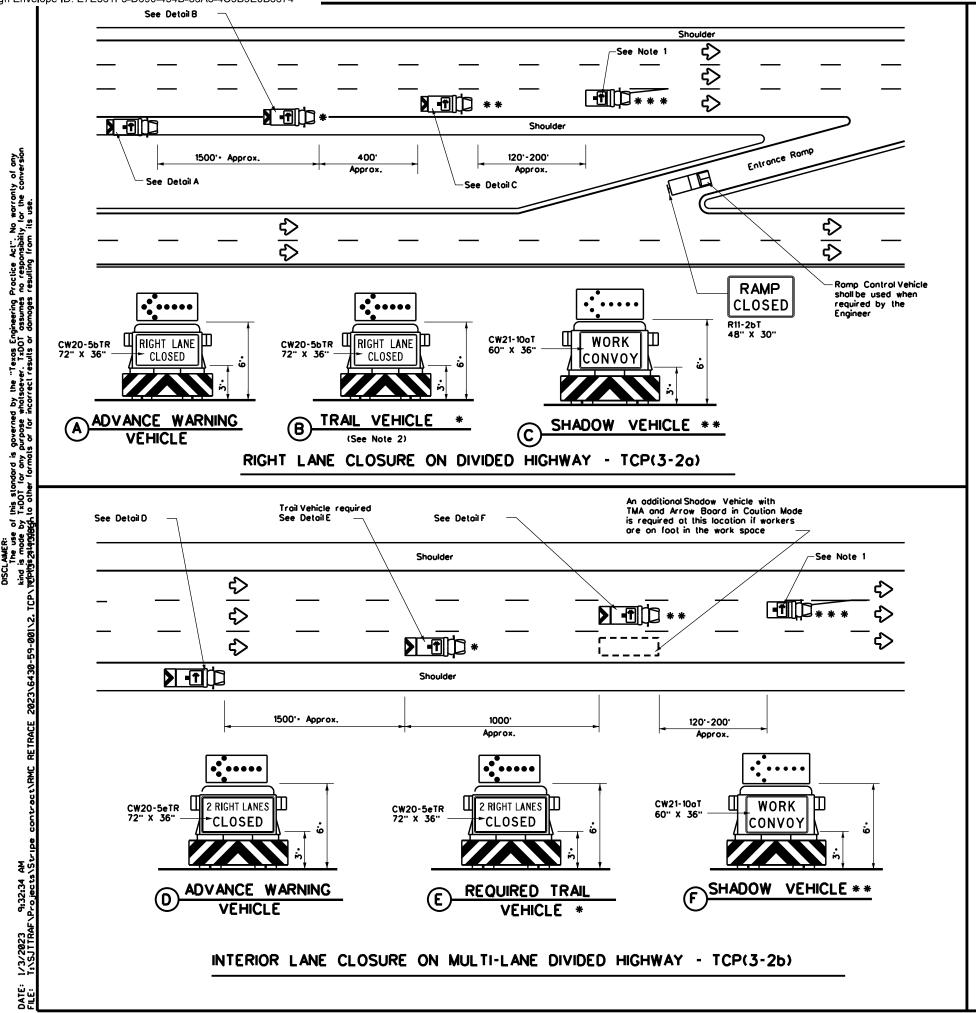
8. Vehicle spocing between the TRAIL VEHICLE and the SHADOW VEHICLE will vary depending on sight distance restrictions. Motorists approaching the work convoy should be able to see the TRAIL VEHICLE in time to slow down and/or change lanes as they approach the TRAIL VEHICLE. Vehicle spacing between the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

9. "X VEHICLE CONVOY" (CW21-10cT) or "WORK CONVOY" (CW21-10cT) 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 poss the work convoy, a "DO NOT PASS" (R4-1) sign should be placed on the back of the

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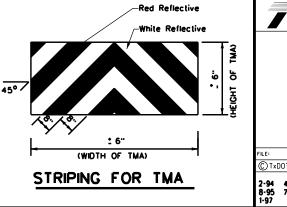


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GENERAL NOTES

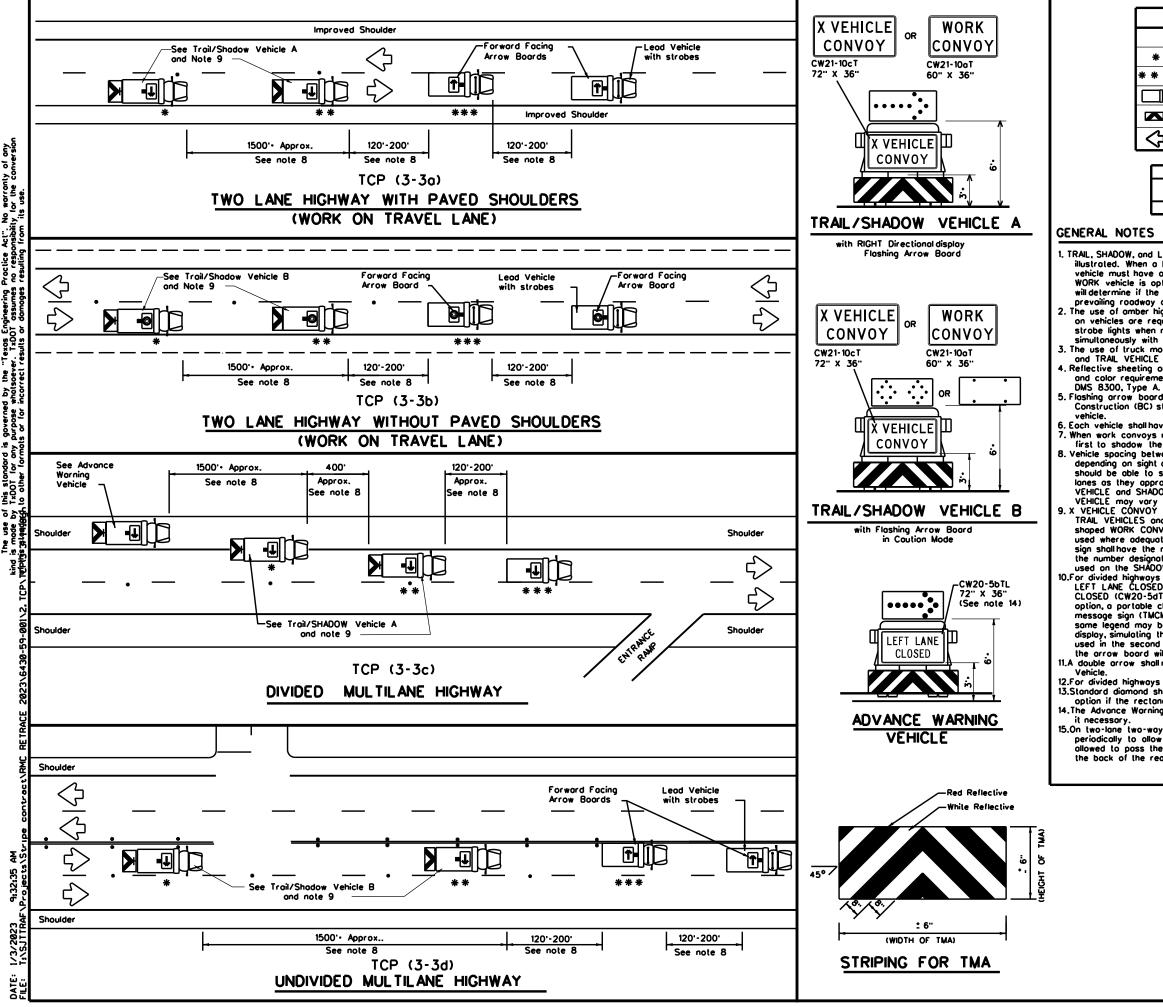
 ADVANCE WARNING, TRAIL a or Type C flashing arrow standards. Arrow boards type of work being perfor inside the vehicle.

- For TCP(3-2a) the Engineer prevailing roadway conditi other vehicles shown for
- The use of amber high inter on vehicles are required. strobe lights when mounter simultaneously with the arr
- 4. The use of truck mounted SHADOW, and TRAIL vehicl
- 5. Reflective sheeting on the color requirements of DM
- 6. Each vehicle shall have two
- When work convoys must c shodow the other convoy
- Vehicle spacing between the depending on sight distance should be able to see the they approach the TRAIL and SHADOW VEHICLE me
- 9. Standard 48" X 48" diamon may be used where adequ
- 10. The signs shown should be changeable message sign a minimum character heig these signs. An approprio legibility of the floshing or PCMS/TMCMS message. W Advance Warning Vehicle.
- 11. Standard diamond shape ver if the rectangular signs st
- The principles on this sheet roadway considering the r frequency.
- 13. Signs and flashing arrow be left lane closures or inter
- 14. The Advance Warning Vehic necessary.



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DIVIDED HIGHWAYS

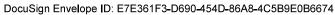


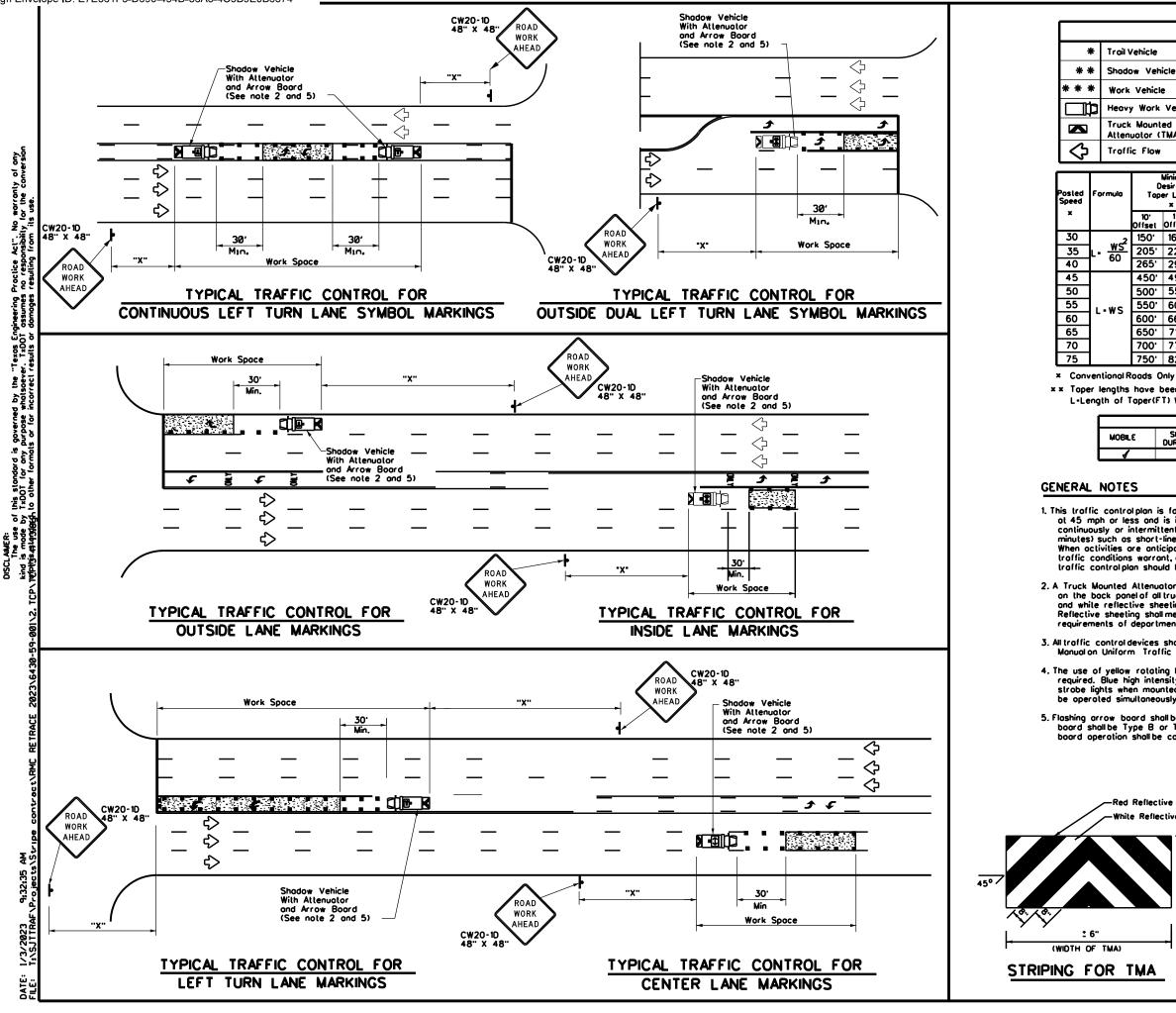
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* *	Shadow Vehicle		ARROW BUARD DISPLAT			
* * *	Work Vehicle		RIGHT Directional			
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	Truck Mounted Attenuator (TMA)	<b>H</b>	Double Arrow			
Ŷ	Traffic Flow	<b>P</b>	CAUTION (Alternating Diamond or 4 Corner Flash)			

TYPICAL USAGE								
MOBILE	SHORT DURATION		INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY				
4								

1. TRAIL, SHADOW, and LEAD vehicles shall be equipped with arrow boards as illustrated. When a LEAD vehicle is not used on two way roads the WORK vehicle must have an arrow board. For divided roadways, the arrow board on the WORK vehicle is optional based on the type of work being performed. The Engineer will determine if the LEAD vehicle and/or TRAIL vehicle are required based on will observe the second 3. The use of truck mounted attenuators (TMA) on the SHADOW VEHICLE, ADVANCE WARNING and TRAL VEHICLE are required. 4. Reflective sheeting on the rear of the TMA shall meet or exceed the reflectivity and color requirements of DEPARTMENTAL MATERIAL SPECIFICATION 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 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 convoy should be able to see the TRAIL VEHICLE in time to slow down and/or change 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 is a chall be aurober of the course while a discloued on the sign in 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 if a TRAIL VEHICLE is used. 10.For divided highways with two or three lanes in one direction, the appropriate LEFT LANE CLOSED (CW20-5bTL), RIGHT LANE CLOSED (CW20-5bTR), or CENTER LANE CLOSED (CW20-5dT) sign should be used on the Advance Warning Vehicle. As an option, o portable changeable message sign (PCMS) or 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 may be used in the second phase of the PCMS/TMCMS message. When this is done, the arrow board will not be required on the Advance Warning Vehicle. 11.A double arrow shall not be displayed on the arrow board on the Advance Warning 12.For divided highways with three or four lanes in each direction, use TCP(3-2). 13.Standard diamond shape versions of the CW20-5 series signs may be used as an option if the rectangular signs shown are not available. 14. The Advance Warning Vehicle may straddle the edgeline when Shoulder width makes 15.On two-lone 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 rearmost protection vehicle. Traffic Operation \* Division Texas Department of Transportation TRAFFIC CONTROL PLAN MOBILE OPERATIONS RAISED PAVEMENT MARKER INSTALLATION/ REMOVAL TCP(3-3)-14

			1			
FILE: tcp3-3.dgn	dn: Tx	DOT	ск: TxDOT	DW:	TxDOT	ск: TxDOT
© TxDOT September 1987	CONT	SECT	JOB		HIG	HWAY
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8-95 7-13	DIST		COUNTY		5	HEET NO.
1-97 7-14	SJT	RUN	NELS C	OUN	TY	23
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LEGEND							
Vehicle		ARROW BOARD DISPLAY					
ow Vehicle		ARROW BOARD DISPLAT					
« Vehicle		RIGHT Directional					
y Work Vehicle	Ē.	LEFT Directional					
k Mounted nuator (TMA)	ŧ	Double Arrow					
fic Flow		Channelizing Devices					

0		Minimum Iesiroble er Lengl x x		Suggested Spocing Channeli Devi	g of zing	Minimum Sign Spocing "X"	Suggested Longitudinal Buffer Space
	10° Offset	11 <sup>.</sup> Offset	12' Offset	On a Taper	On a Tangent	Distance	8
	150'	165'	180'	30'	60 <sup>.</sup>	120'	90'
	205'	225'	245'	35'	70'	160'	120'
	265'	295'	320 <sup>.</sup>	40'	80 <sup>.</sup>	240	155 <sup>.</sup>
	450	495'	540'	45'	90.	320'	195'
	500'	550'	600.	50'	100'	400'	240'
	550'	605'	660'	55'	110'	500'	295'
	600'	660'	720'	60 <sup>.</sup>	120'	600'	350'
	650'	715'	780'	65'	130'	700 <sup>.</sup>	4 10'
	700'	770	840'	70 <sup>.</sup>	140'	800'	475'
	750'	825'	900'	75'	150'	900 <sup>.</sup>	540 <sup>.</sup>

**\* \*** Toper lengths have been rounded off.

L-Length of Toper(FT) W-Width of Offset(FT) S-Posted Speed(MPH)

	TYPICAL USAGE									
.ε	SHORT DURATION		INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY						
,										

 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.

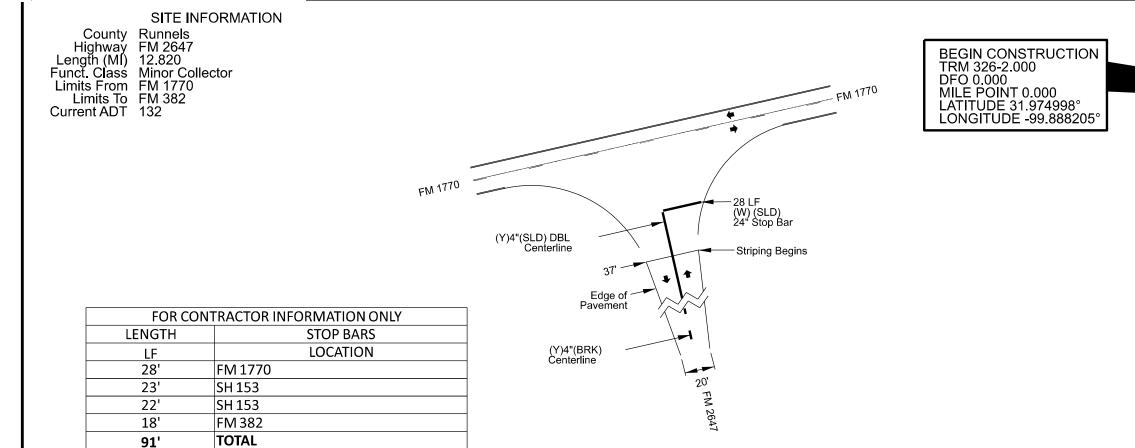
2. A Truck Mounted Attenuator shall be used on Shadow Vehicle. Striping on the back panel of all truck mounted attenuators sholl be 8" red and white reflective sheeting placed in an inverted "V" design. Reflective sheeting shall meet or exceed the reflectivity and color requirements of departmental material 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.

Reflective Reflective	Texas Departm	nent of Trar	nsportation	Traffic Operations Division Standard
e 6"		PERA		OR
(HEIGHT				-
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	UNDIVID		GHWAYS	5
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₩A	FILE: tcp3-4.dgn © TxDOT July, 2013		GHWAYS 5-4)-13 DOT CK: TXDOT DW SECT JOB	: TxDOT CK: TxDOT HIGHWAY



BEGIN CONSTRUCTION NOT TO SCALE

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					NOT TO S
	PAVEMENT	MARKING QUAN	NTITIES (THIS S	HEET ONLY)	
666-6036	666-6048	666-6230	666-6303	666-6312	666-6315
REFL PAV MRK TY I (W) 8" (SLD) (100MIL)	REFL PAV MRK TY I (W)24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(SLD) (100MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100MIL)	RE PM W/RET REQ TY I (Y)4"(SLD) (100MIL)

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[	666-6342	666-6344	666-6345	6056-6002	6185-6005
	REF PROF PAV MRK TY I(W)4" (SLD)(100MIL)	REF PROF PAV MRK TY I(Y)4" (BRK)(100MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD)(100MIL)	PERFORMED CENTERLINE RUMBLE STR <b>I</b> P	TMA (MOBILE OPERATION)
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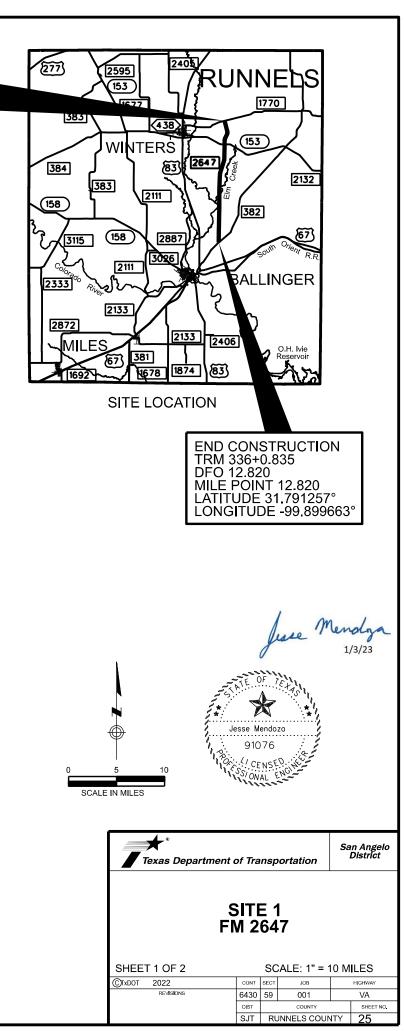
DATE: 1/3/2023 9:32:38 AM FILE: T:\SJTTRAF\Projects\Stripe contract\RMC RETRACE 2023\6430-59-001\3. Roadway\SITE 1 (1 of :

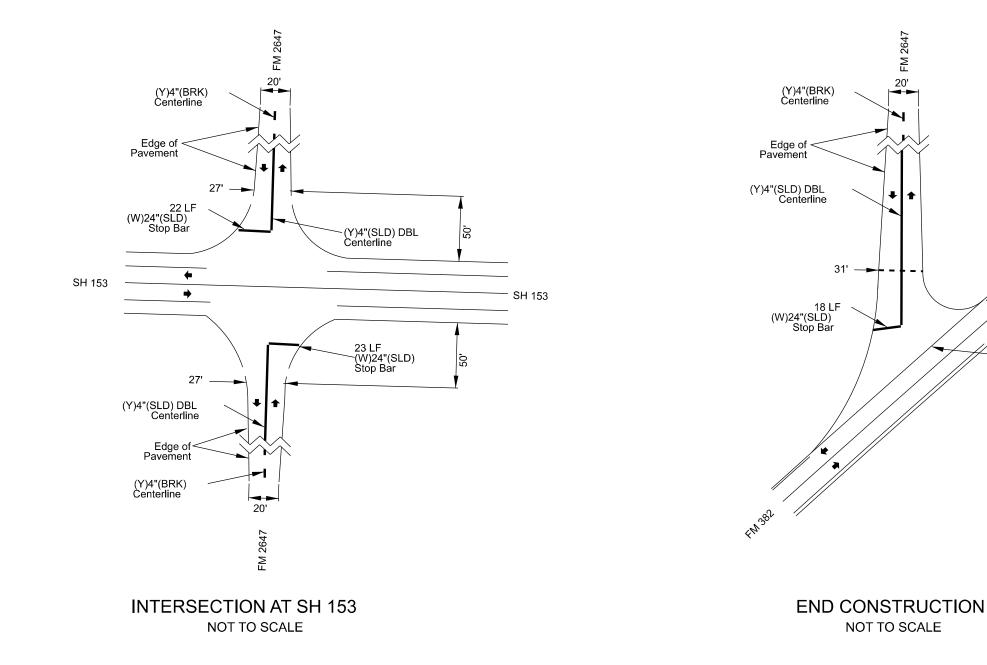
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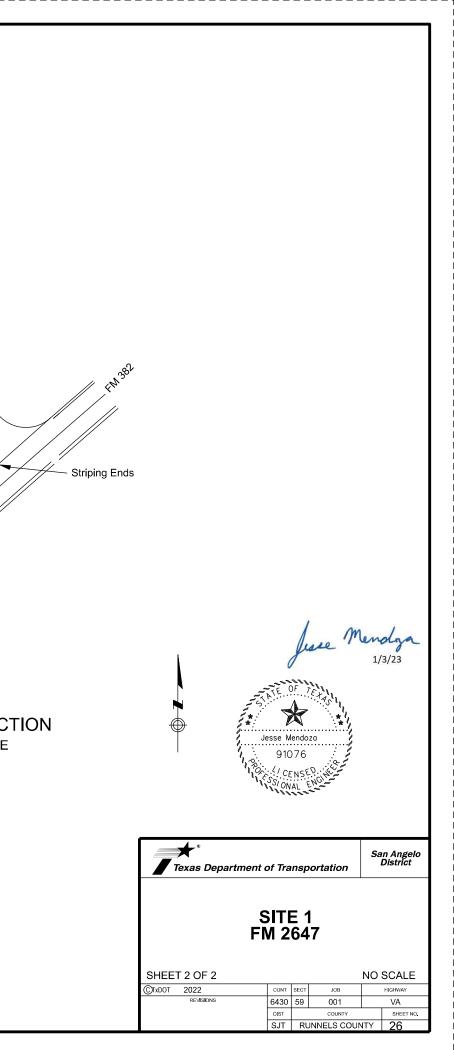
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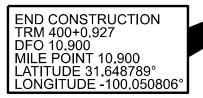
SITE INFORMATION County Runnels Highway FM 2872 Length (MI) 10.900 Funct. Class Minor Collector Limits From FM 1692 Limits To US 67 Current ADT 215

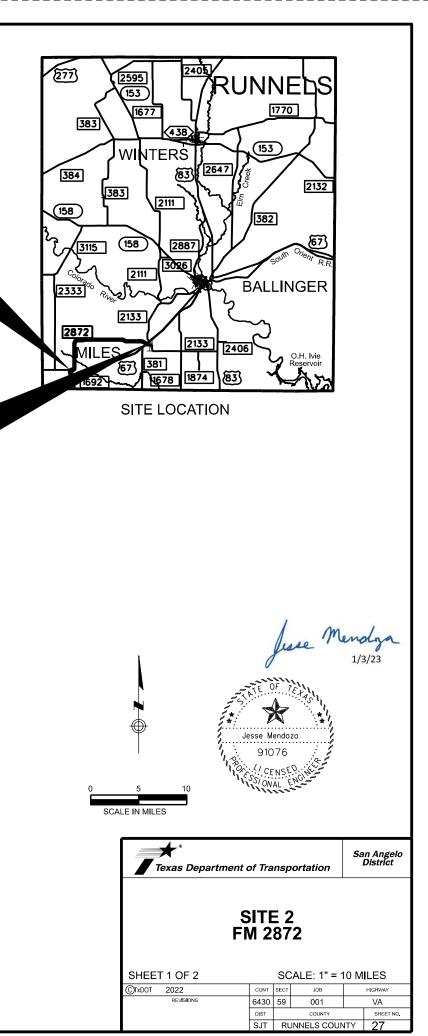
	PAVEMENT MARKING QUANTITIES (THIS SHEET ONLY)								
666-6036	666-6048	666-6230	666-6303	666-6312	666-6315				
REFL PAV MRK TY I (W) 8" (SLD) (100MIL)	REFL PAV MRK TY I (W)24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(SLD) (100MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100MIL)	RE PM W/RET REQ TY I (Y)4"(SLD) (100MIL)				
LF	LF	LF	LF	LF	LF				
706	180	0	7392	610	4850				

666-6342	666-6344	666-6345	6056-6002	6185-6005
REF PROF PAV MRK TY I(W)4" (SLD)(100MIL)	REF PROF PAV MRK TY I(Y)4" (BRK)(100MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD)(100MIL)	PERFORMED CENTERLINE RUMBLE STRIP	TMA (MOBILE OPERATION)
LF	LF	LF	LF	DAY
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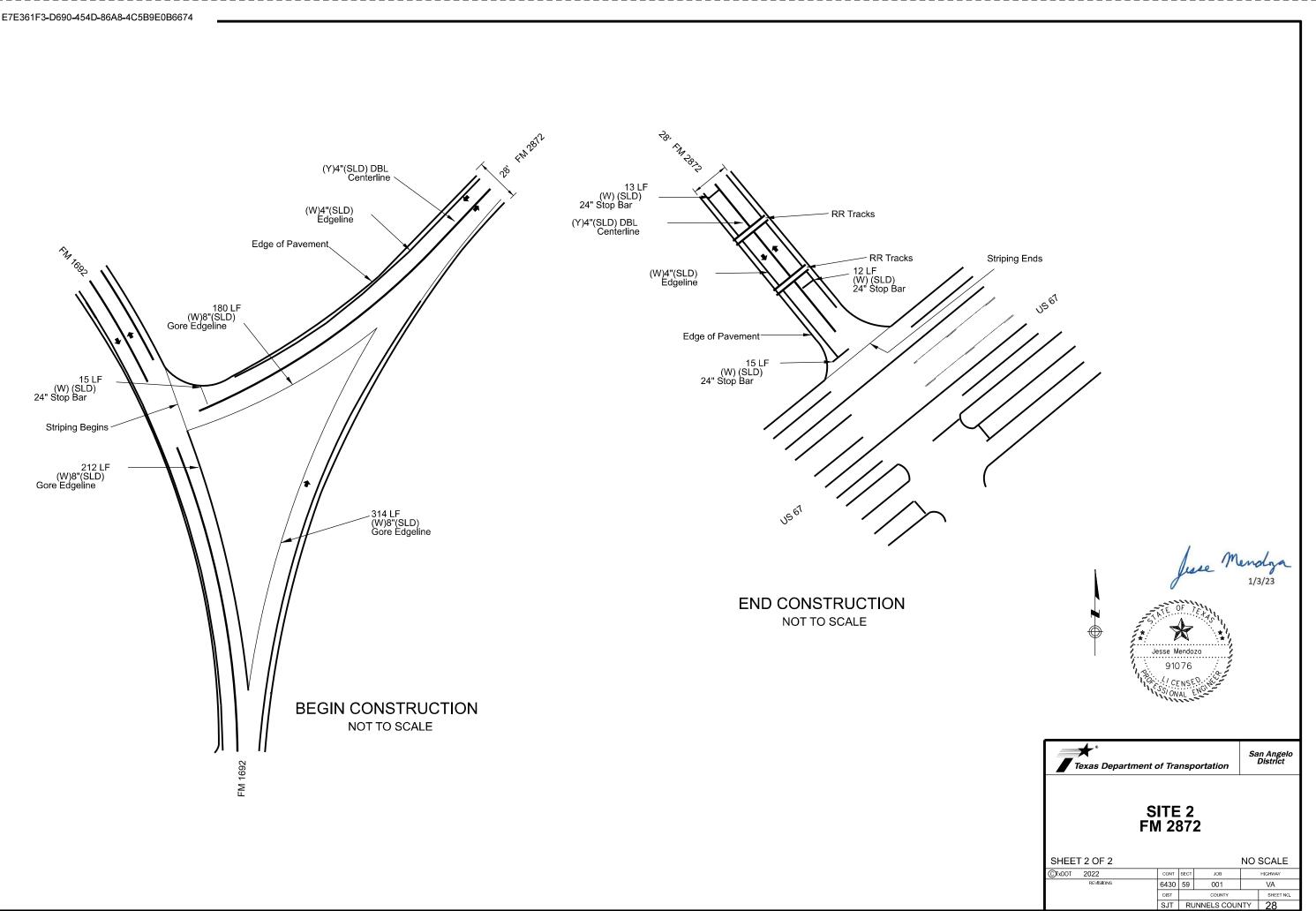
FOR CON	TRACTOR INFORMATION ONLY
LENGTH	STOP BARS
LF	LOCATION
15'	US 67
12'	US 67 AT RAILROAD CROSSING
13'	US 67 AT RAILROAD CROSSING
15'	FM 1692
15'	FM 400
15'	CR 399
15'	CR 399
20'	CR 347
15'	CR 347
15'	FM 363
15'	FM 363
15'	FM 364
180'	TOTAL

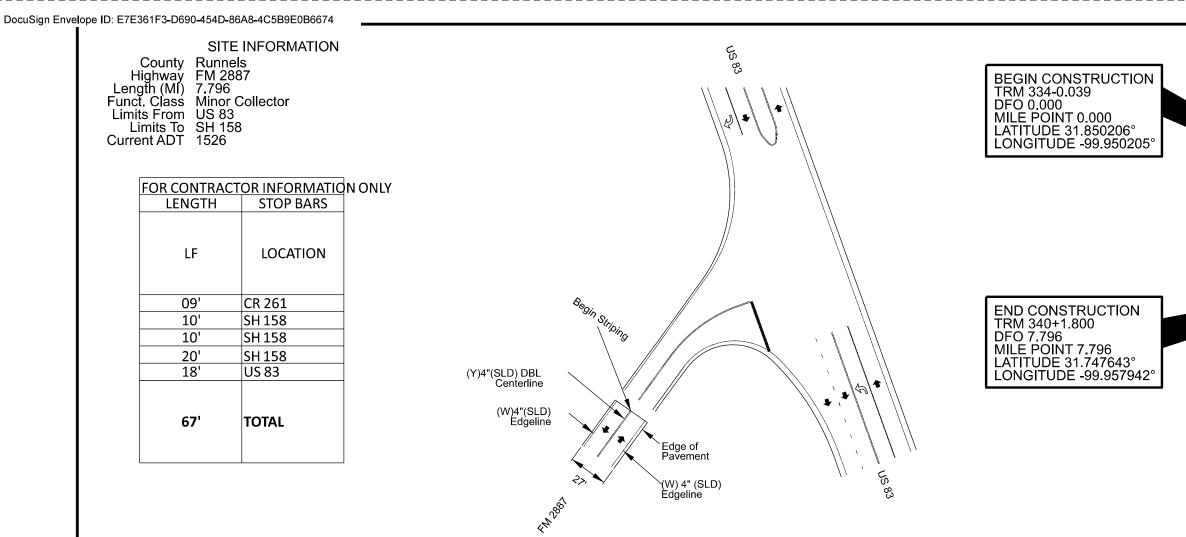
BEGIN CONSTRUCTION	
TRM 390-0.067 DFO 0.000	
MILE POINT 0.000	
LATITUDE 31.608893° LONGITUDE -100.185178°	





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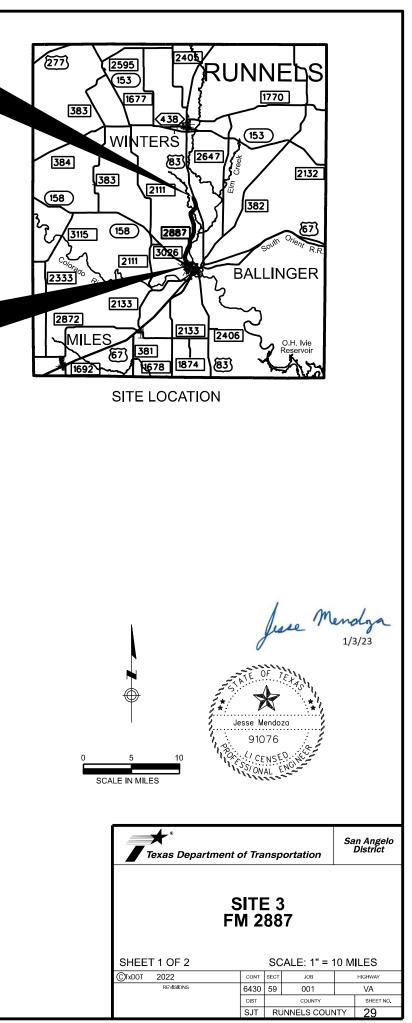


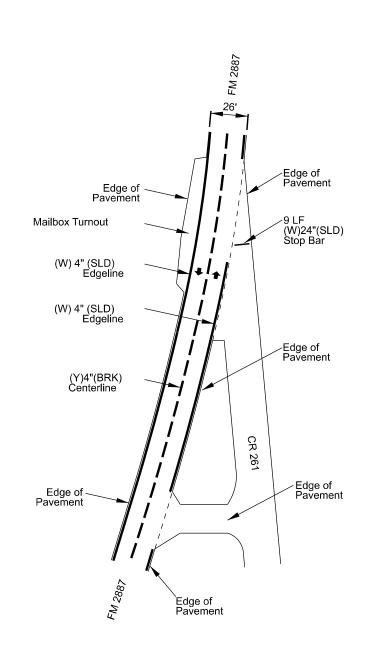
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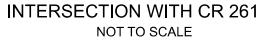
PAVEMENT MARKING QUANTITIES (THIS SHEET ONLY)									
666-6036	666-6036 666-6048 666-6230			666-6312	666-6315				
REFL PAV MRK TY I (W) 8" (SLD) (100MIL)	REFL PAV MRK TY I (W)24"(SLD) (100MIL)	PAVEMENT SEALER 24"	RE PM W/RET REQ TY I (W)4"(SLD) (100MIL)	RE PM W/RET REQ TY I (Y)4"(BRK) (100MIL)	RE PM W/RET REQ TY I (Y)4"(SLD) (100MIL)				
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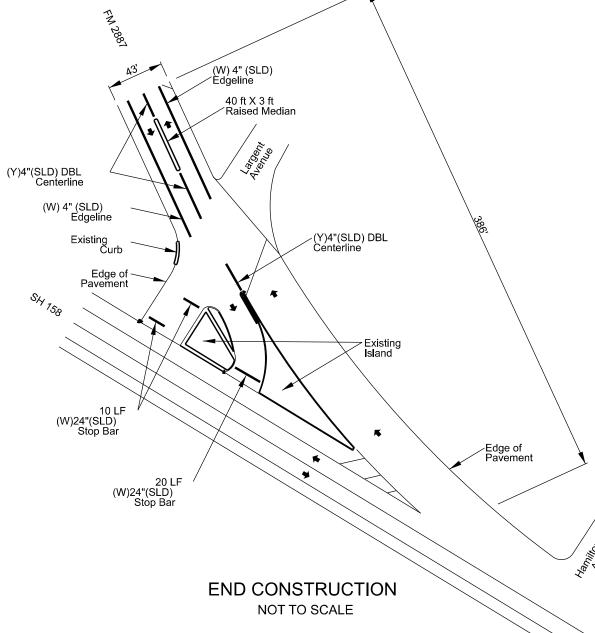
666-6342	666-6344	666-6345	6056-6002	6185-6005
REF PROF PAV MRK TY I(W)4" (SLD)(100MIL)	REF PROF PAV MRK TY I(Y)4" (BRK)(100MIL)	REF PROF PAV MRK TY I (Y) 4" (SLD)(100MIL)	PERFORMED CENTERLINE RUMBLE STRIP	TMA (MOBILE OPERATION)
LF	LF	LF	LF	DAY
72,339	3,200	24,900	21,375	2

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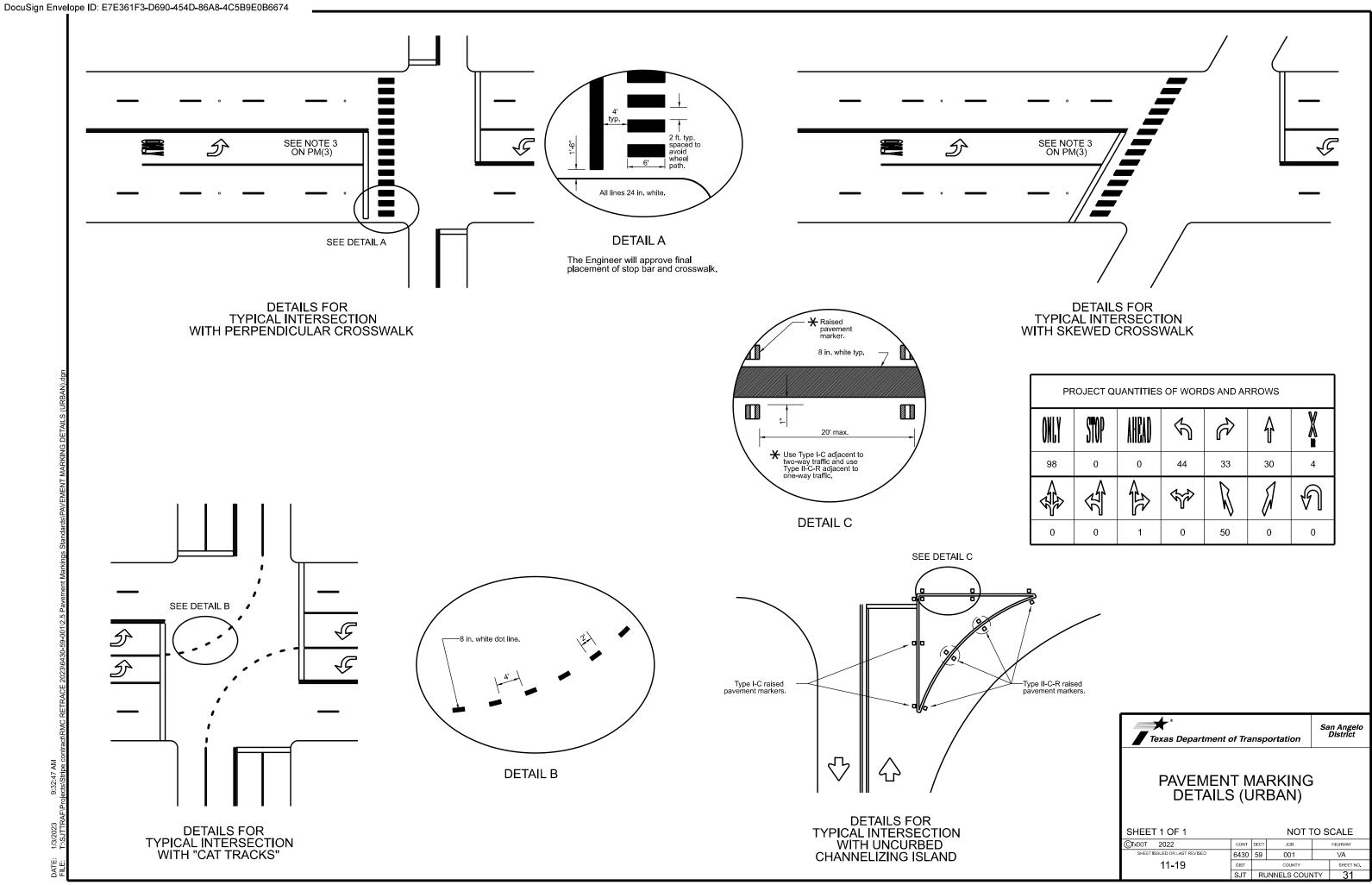


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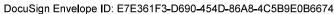
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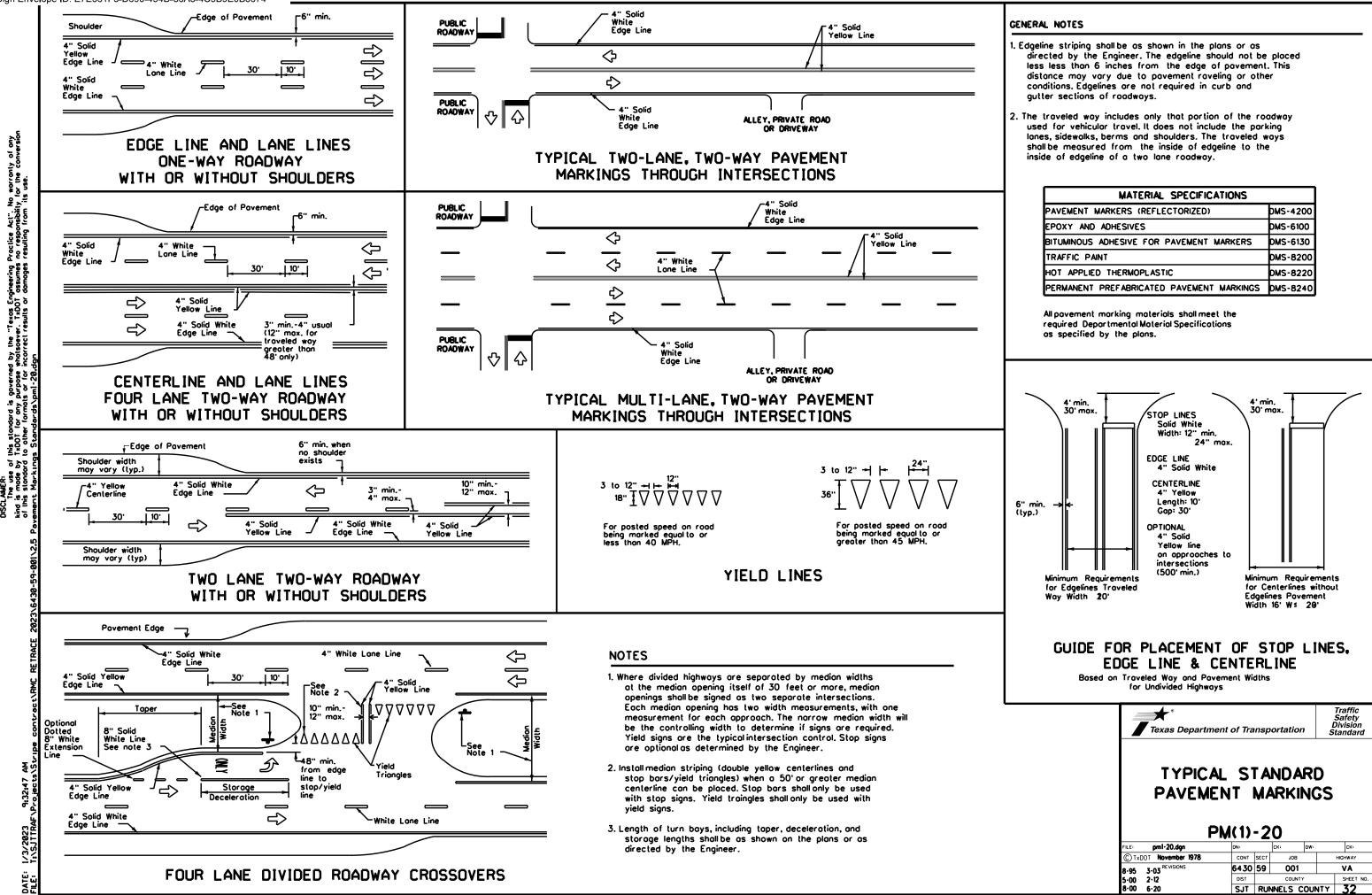
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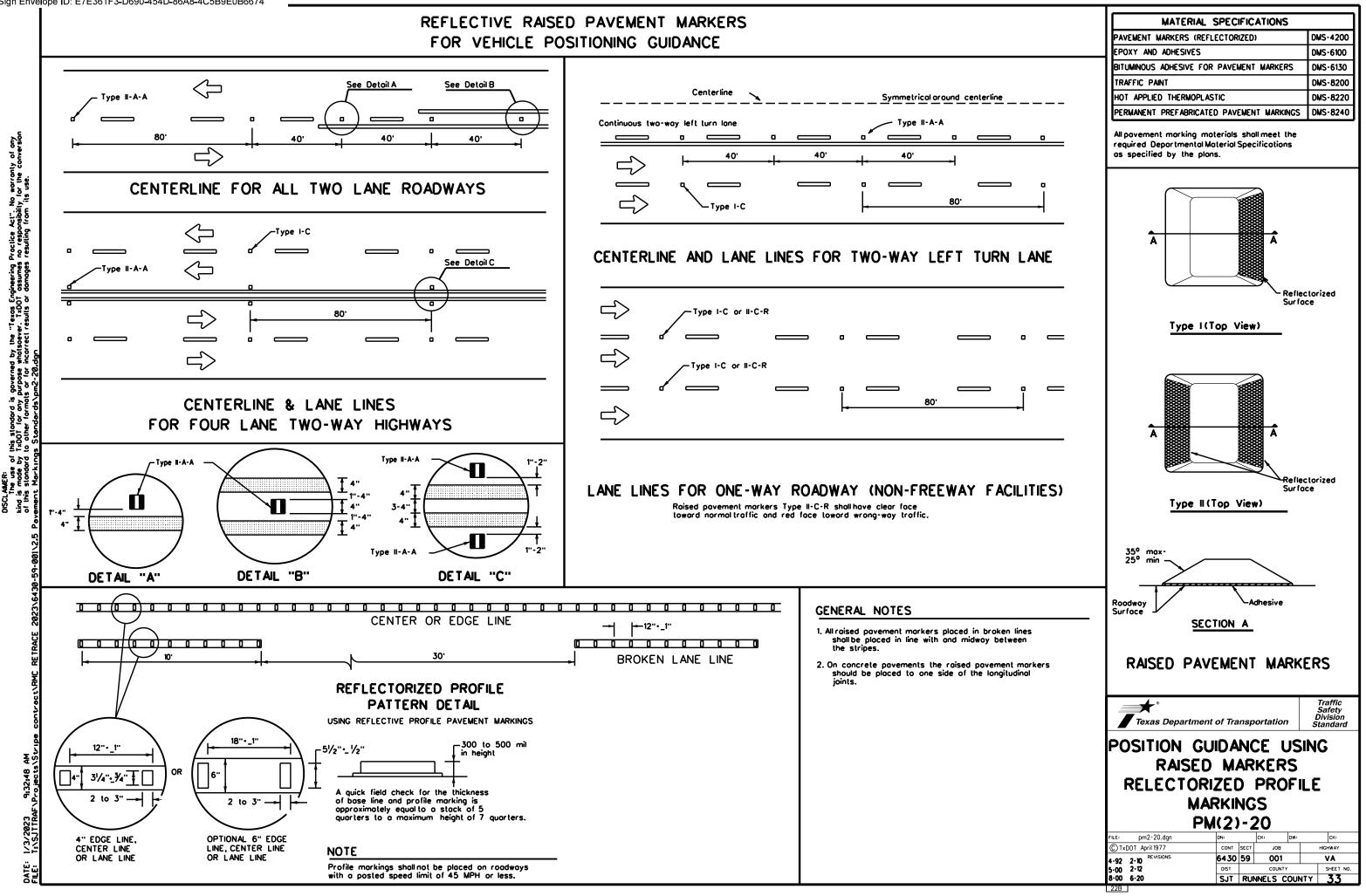
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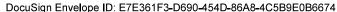


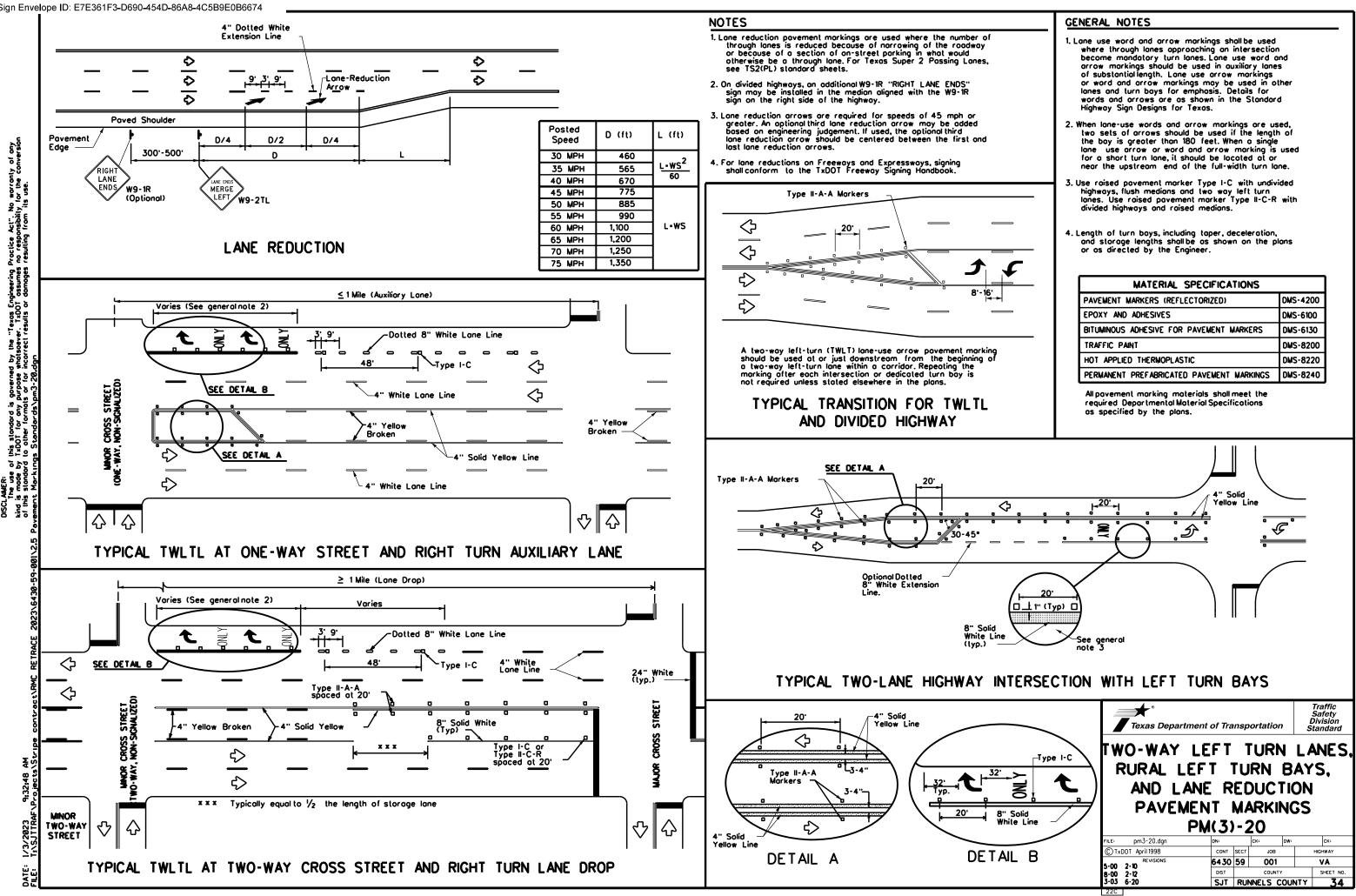


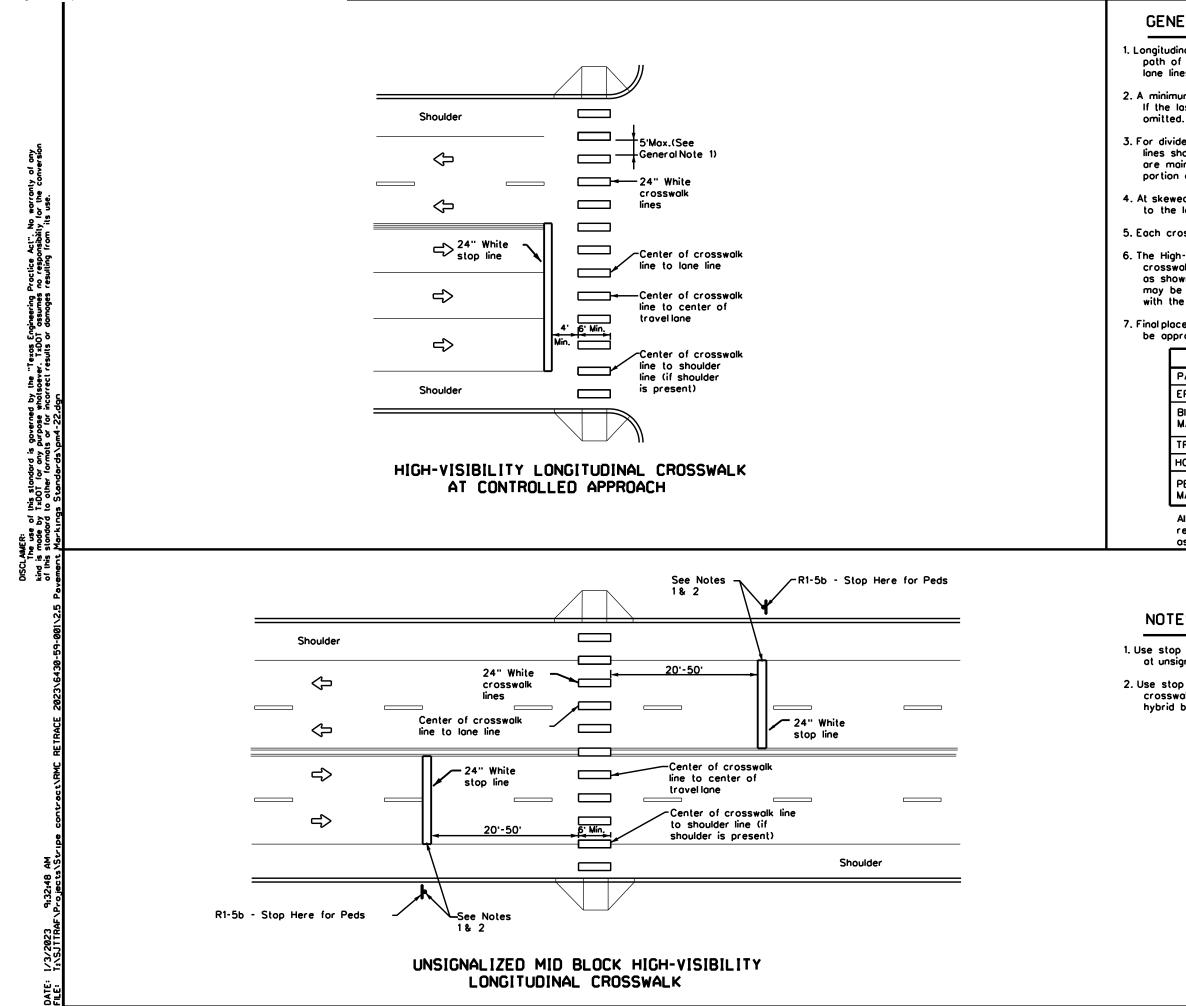
MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240

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	PAVEMENT MAR	RKINGS	
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# GENERAL NOTES

1. Longitudinal crosswalk lines should not be placed in the wheel path of vehicles. Center the crosswalk lines on travellanes, 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

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 lone 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					

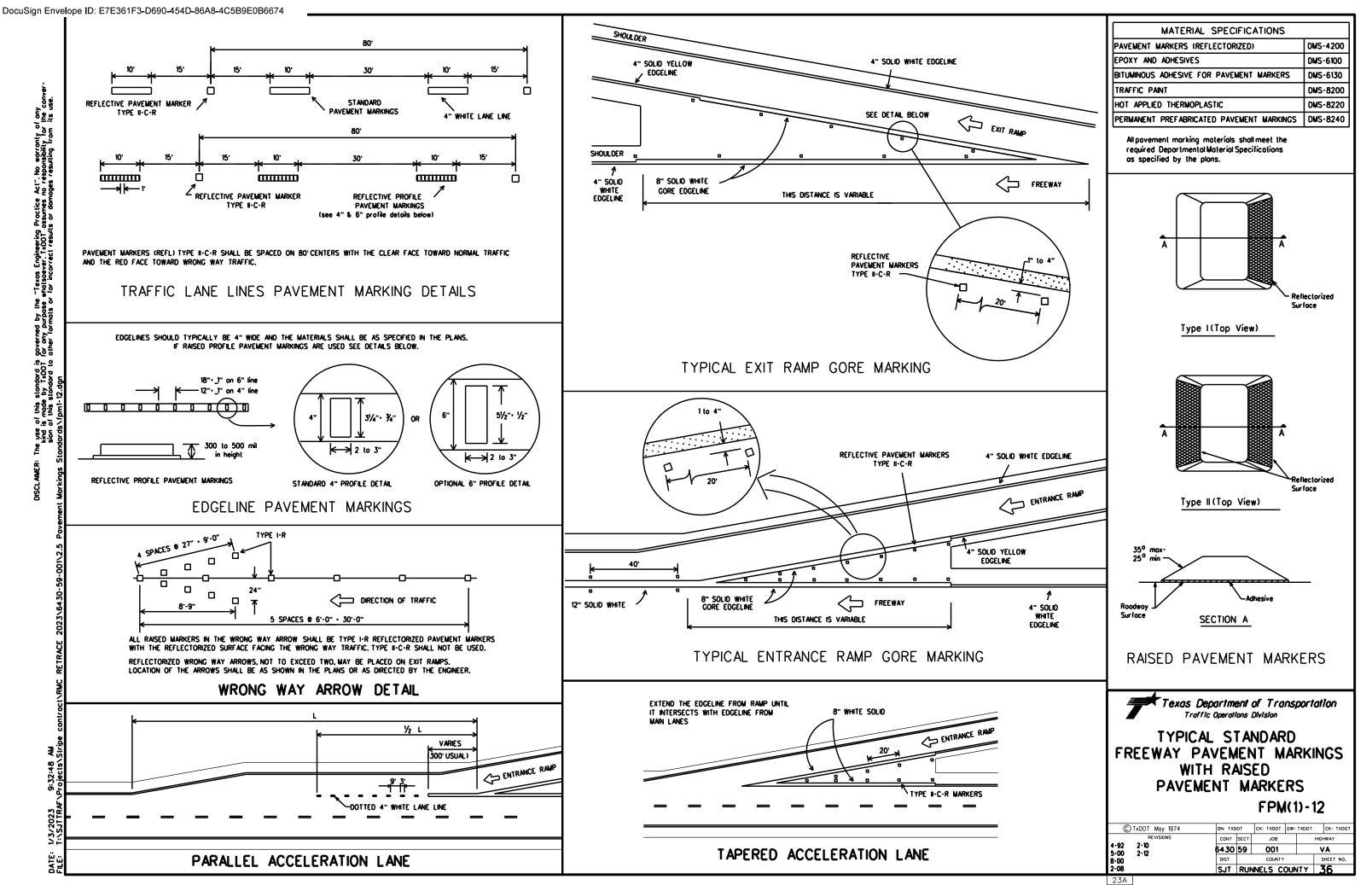
All povement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

# NOTES:

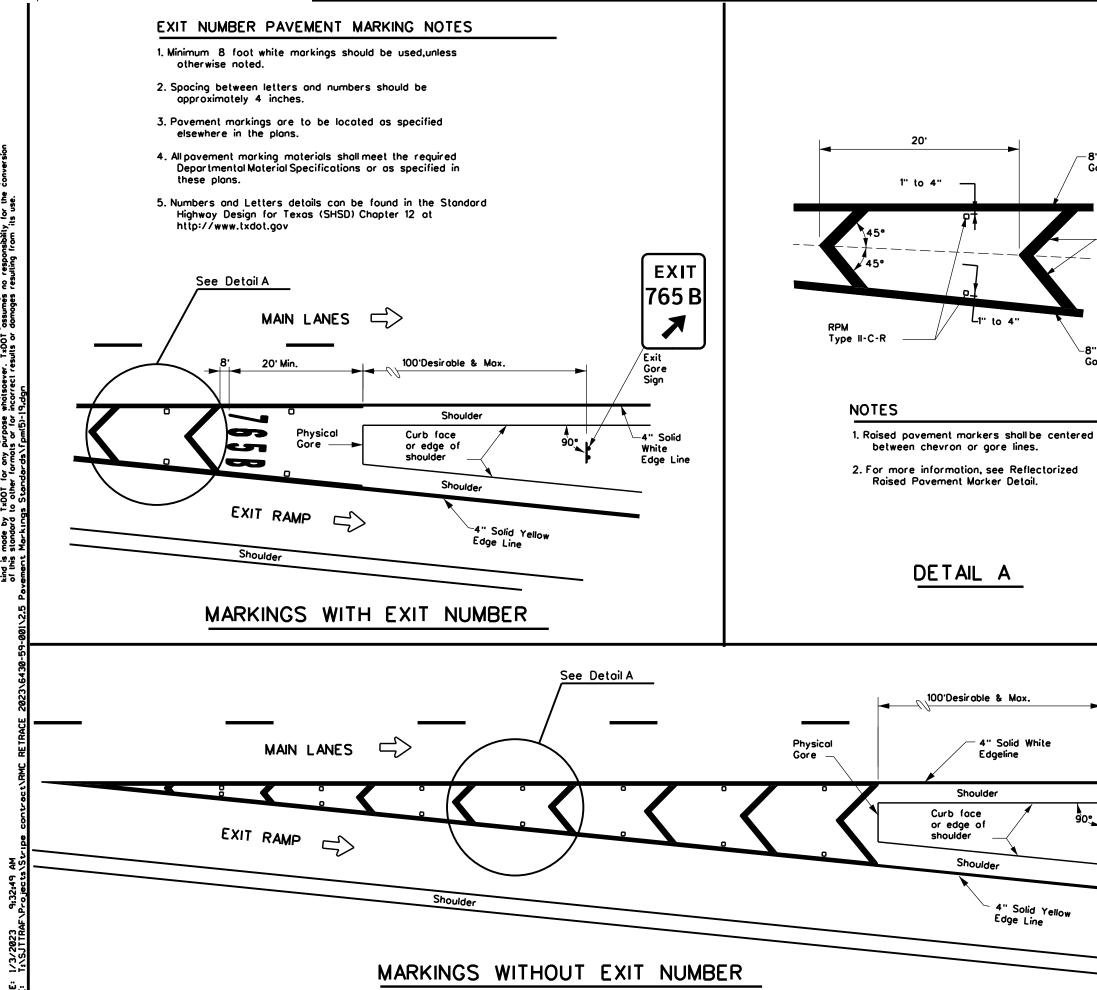
1. Use stop bars with "Stop Here for Pedestrians" signs at unsignalized mid block cross walks.

2. Use stop bars with "Stop Here on Red" signs at mid block crosswalks controlled by traffic signals or pedestrian hybrid beacons.

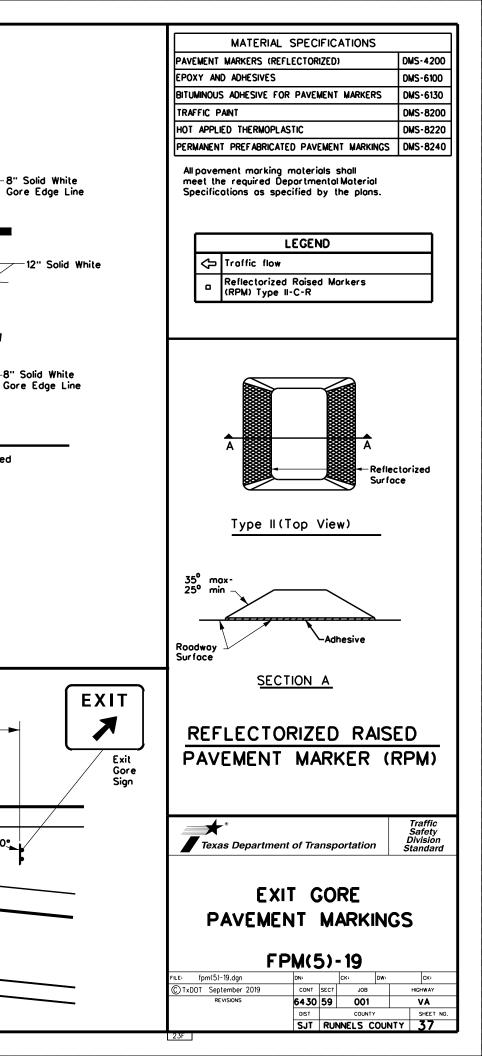
Texas Department	nt of Tra	nsp	ortation		Traffic Safety Division tandard
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FILE: pm4-22.dgn	DN:		ск:	DW:	Ск:
© TxDOT June 2020	CONT	SECT	JOB		HIGHWAY
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DISCLAMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any tind is made by TxDOT for any purpose whotsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats ar for incorrect results ar domages resulting from its use. sment Markings Standards\fpmt[5]-19.dgn



20'

L1" to 4"

DETAIL A

100'Desirable & Max.

Shoulder

Shoulder

Curb face

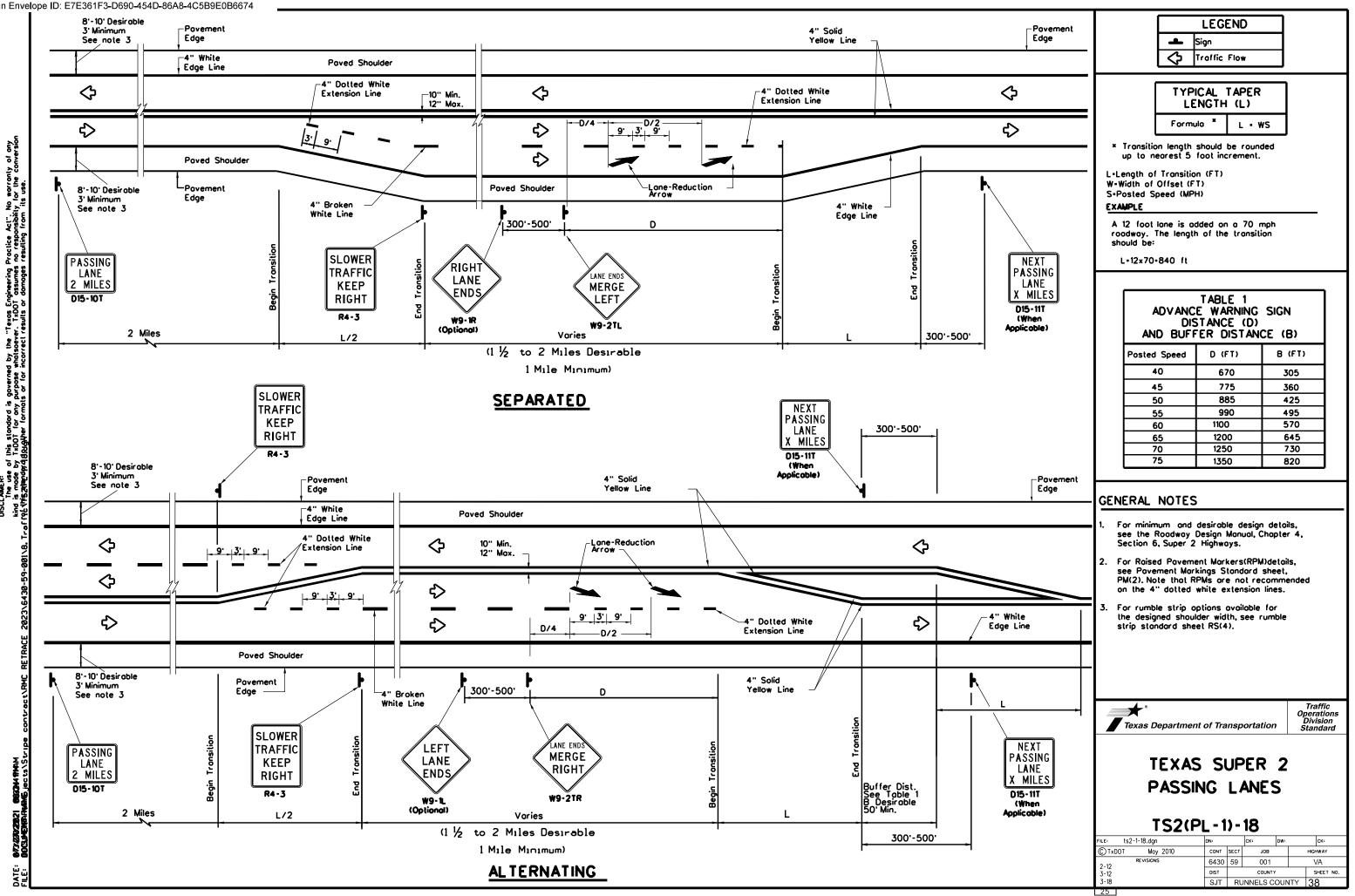
or edge of shoulder

4" Solid White

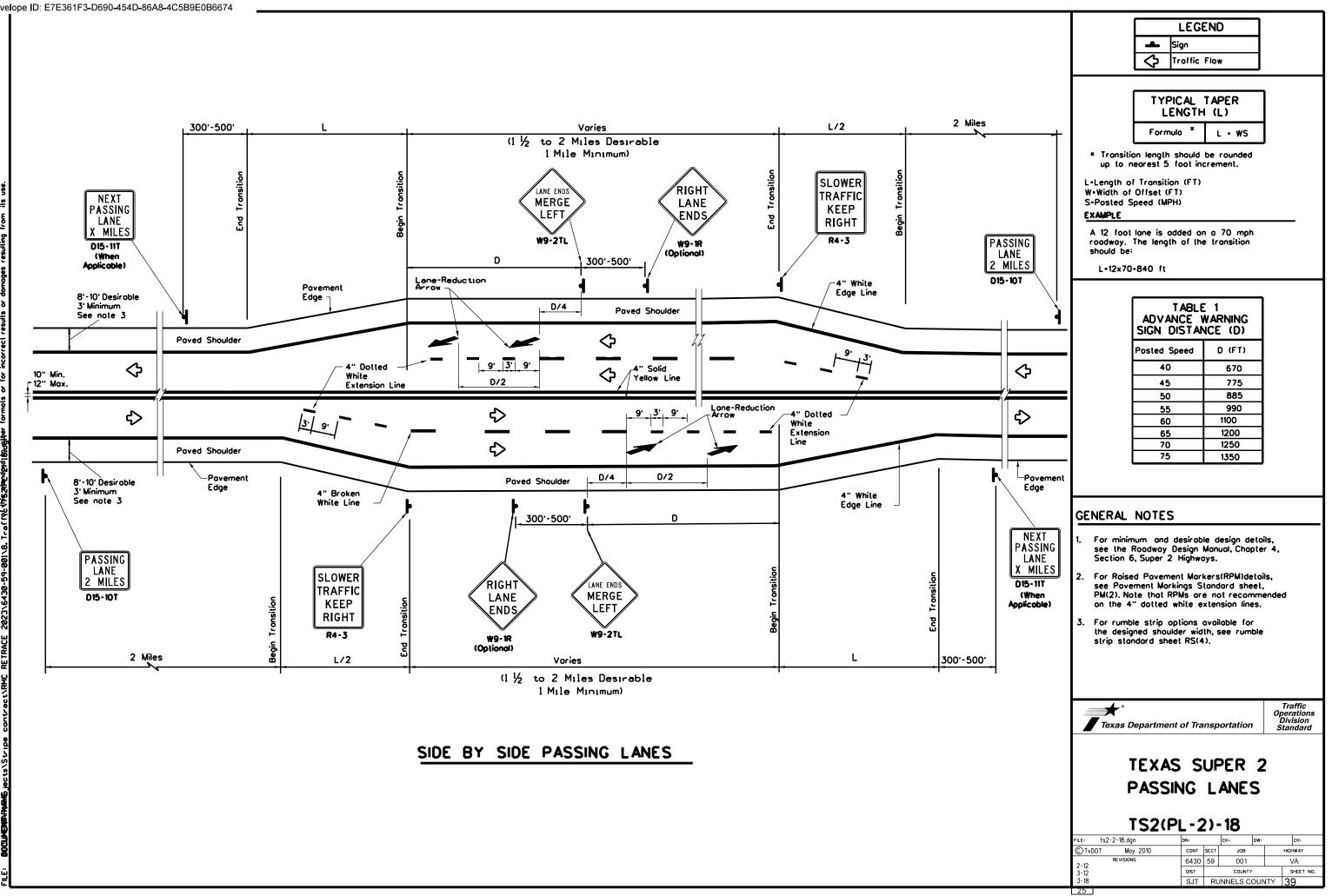
4" Solid Yellow Edge Line

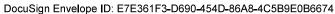
90°

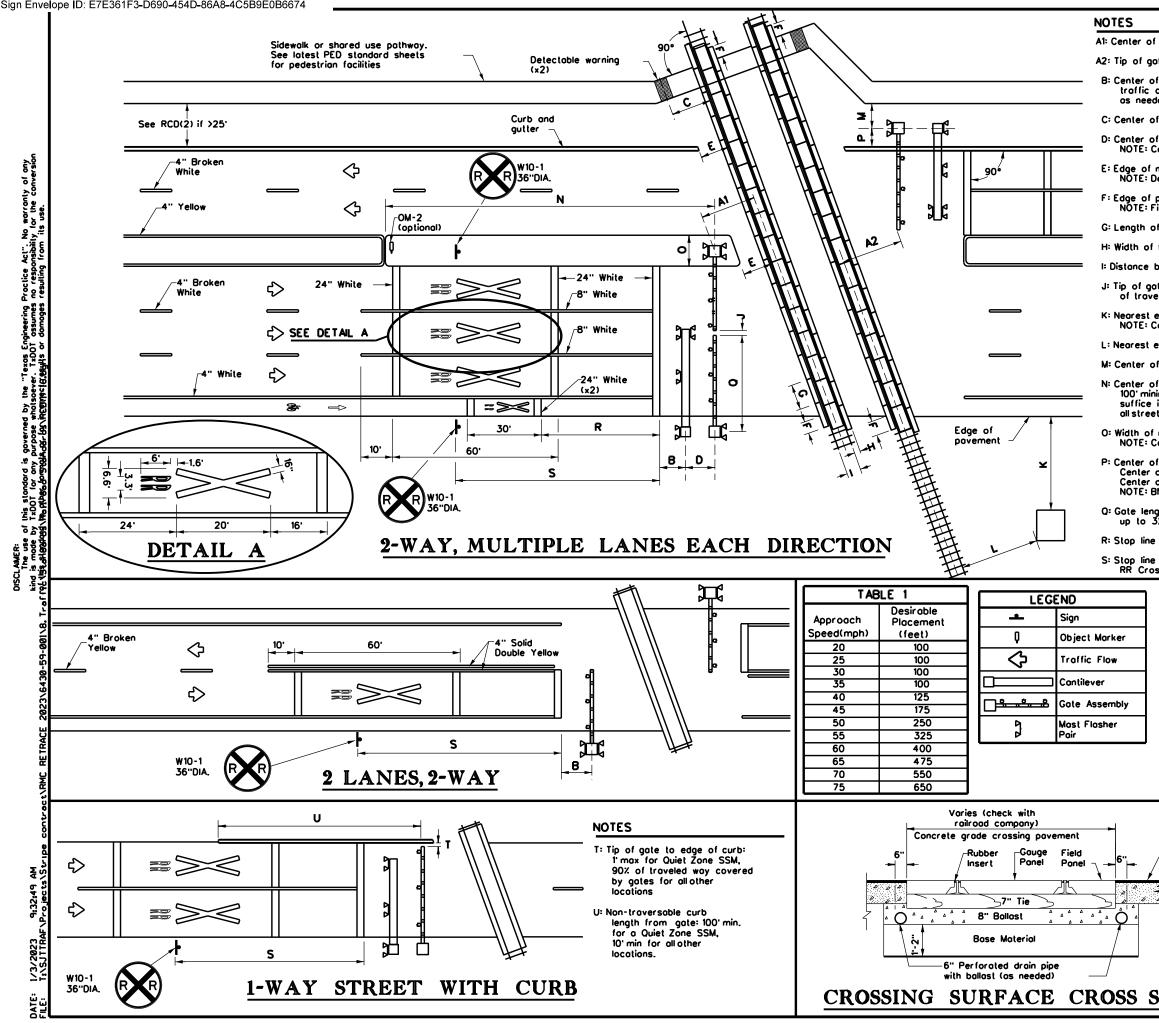
Edgeline



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A1: Center of RR most to center of rail: 12' minimum, 15' typical.

A2: Tip of gate to center of rail: 12' minimum, 15' typical.

B: Center of mast (cantilever, gate, or mast flasher) of nearest active traffic control device to stop line: 8' (NOTE: Stop line may be moved as needed, but should be at least 8' back from gates, if present).

C: Center of detectable warning device to nearest rail: 6' minimum

D: Center of gate most to center of contilever most: 6' typical. NOTE: Cantilever may be located in front or behind gates.

E: Edge of median or curb to nearest rail: 10' typical. NOTE: Design median edge to be parallel with rail.

F: Edge of planking panel from edge of pavement or sidewalk: 3' minimum. NOTE: Field panels need not be in line with gauge panels.

G: Length of panels along rail: 8' typical.

H: Width of field panel: 2' typical (check with railroad company).

I: Distance between rails: 4'-8.5".

J: Tip of gate to tip of gate: 2' maximum for Quiet Zone SSM or 90% of traveled way covered by gates for all other locations.

K: Nearest edge of RR cabin from edge of pavement: 30' typical. NOTE: Cobinet not required to be parallel to edge of pavement.

L: Nearest edge of RR cabin from nearest rail: 25' typical.

M: Center of RR most to edge of sidewalk: 6' minimum.

N: Center of gate mast to leading edge of non-traversable median: 100' minimum to gualify as a Quiet Zone SSM. NOTE: 60'will suffice if there is a street intersection within the 100' and all street intersections within 60' are closed.

O: Width of median: 8'-6" minimum, 10' typical when using median gates. NOTE: Center of gate most minimum 4'-3" from face of curb.

P: Center of RR most to face of curb: 4'-3" minimum. Center of RR most to edge of povement (with shoulder): 6' minimum Center of RR most to edge of povement (no shoulder): 8'-3" minimum NOTE: BNSF prefers 5'-3", 7', and 9'-3" minimums, respectively.

Q: Gate length: 28' or less typical, but railroad company may allow up to 32'under special circumstances.

R: Stop line to first RR Crossing transverse line (bike lane): 50' typical.

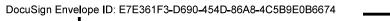
S: Stop line to GRADE CROSSING ADVANCE WARNING (W10-1) sign and adjacent RR Crossing pavement markings. See Table 1. See RCD(2) for other signs.

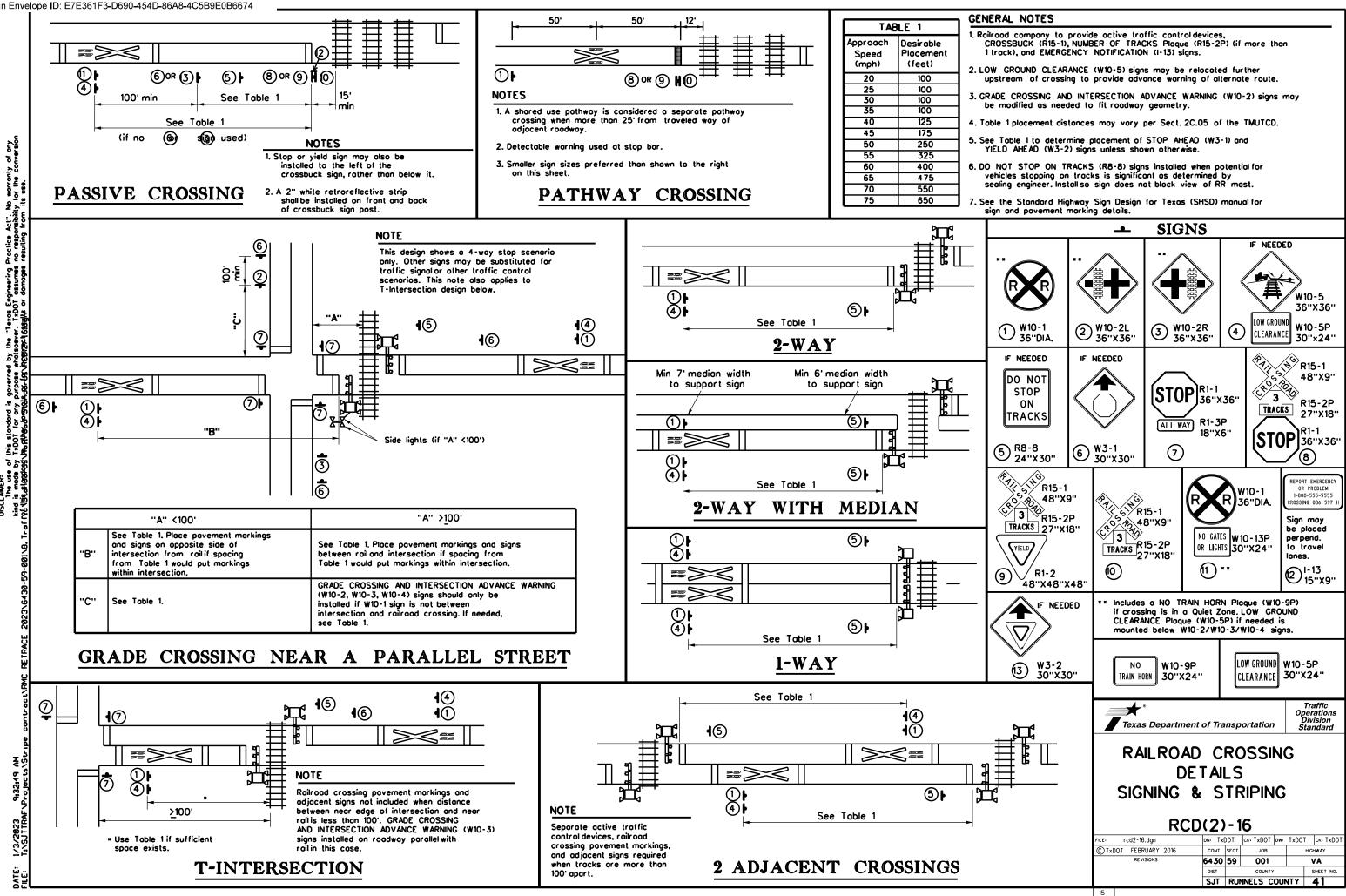
#### GENERAL NOTES

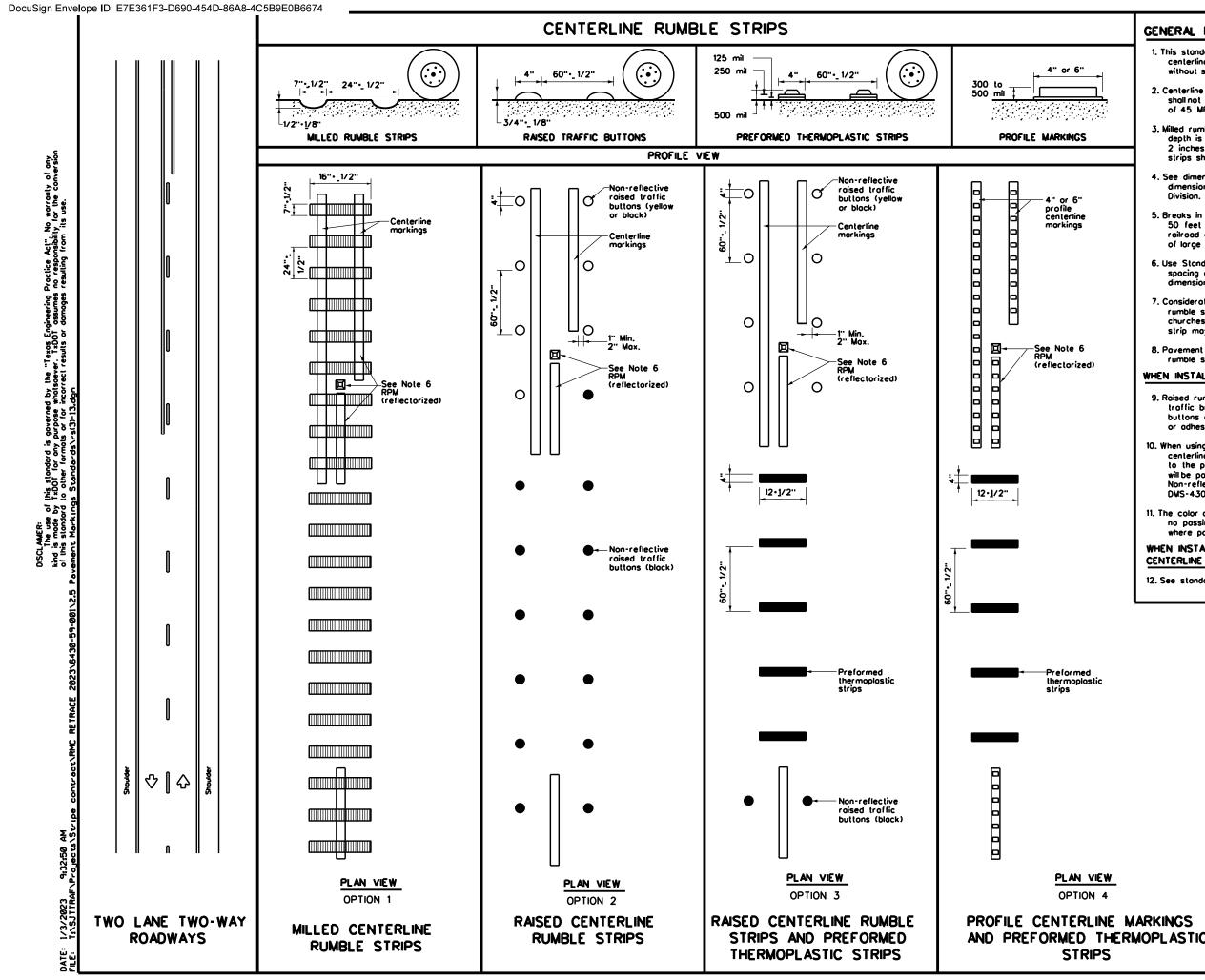
1. Medians and curbs must be non-traversable to qualify as a Quiet Zone Supplementary Sofety Measure (SSM). Non-traversable curbs in Quiet Zones are 6" tall minimum and used on roadways where speed does not exceed 40 mph.

- 2. Raised pavement markers may be used to supplement striping. See PM(2) and PM(3) standard sheets.
- 3. Medians preferred whenever possible to prevent vehicles from driving around gates.
- 4. Longitudinal edge striping may be continued thru crossing as needed. Illumination may also be considered for night lime visibility.
- 5. See SMD standard sheets for sign mounting details.
- See the Standard Highway Sign Design for Texas (SHSD) manual for sign and pavement marking details.

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#### GENERAL NOTES

- 1. This standard sheet provides guidelines for installing centerline rumble strips on two-lane highways with or without shoulders.
- 2. Centerline and edgeline rumble strips or profile markings shall not be placed on roadways with a posted speed limit of 45 MPH or less.
- 3. Milled rumble strips are preferred when adequate pavement depth is available. If pavement thickness is less than 2 inches, milled rumble strips shall not be used. Rumble strips shall not be milled or depressed into bridge decks.
- 4. See dimensions for milled rumble strips. Other shapes and dimensions may be used if approved by the Traffic Operations Division.
- 5. Breaks in milled centerline rumble strips shall occur at least 50 feet and no more than 150 feet in advance of bridges, railroad crossings, intersections and driveways with high usage of large trucks.
- 6. Use Standard Sheet PM(2) for positioning, dimensioning, and spacing of all reflective raised pavement markers, and dimensions povement markings and profile markings.
- Consideration should be given to noise levels when centerline rumble strips are installed near residential areas, schools, churches, etc. A minimum of 3/8 inch depth of milled rumble strip may be considered in these areas.
- 8. Povement markings must be applied over milled centerline rumble strips.

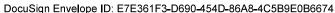
#### WHEN INSTALLING CENTERLINE RUMBLE STRIPS:

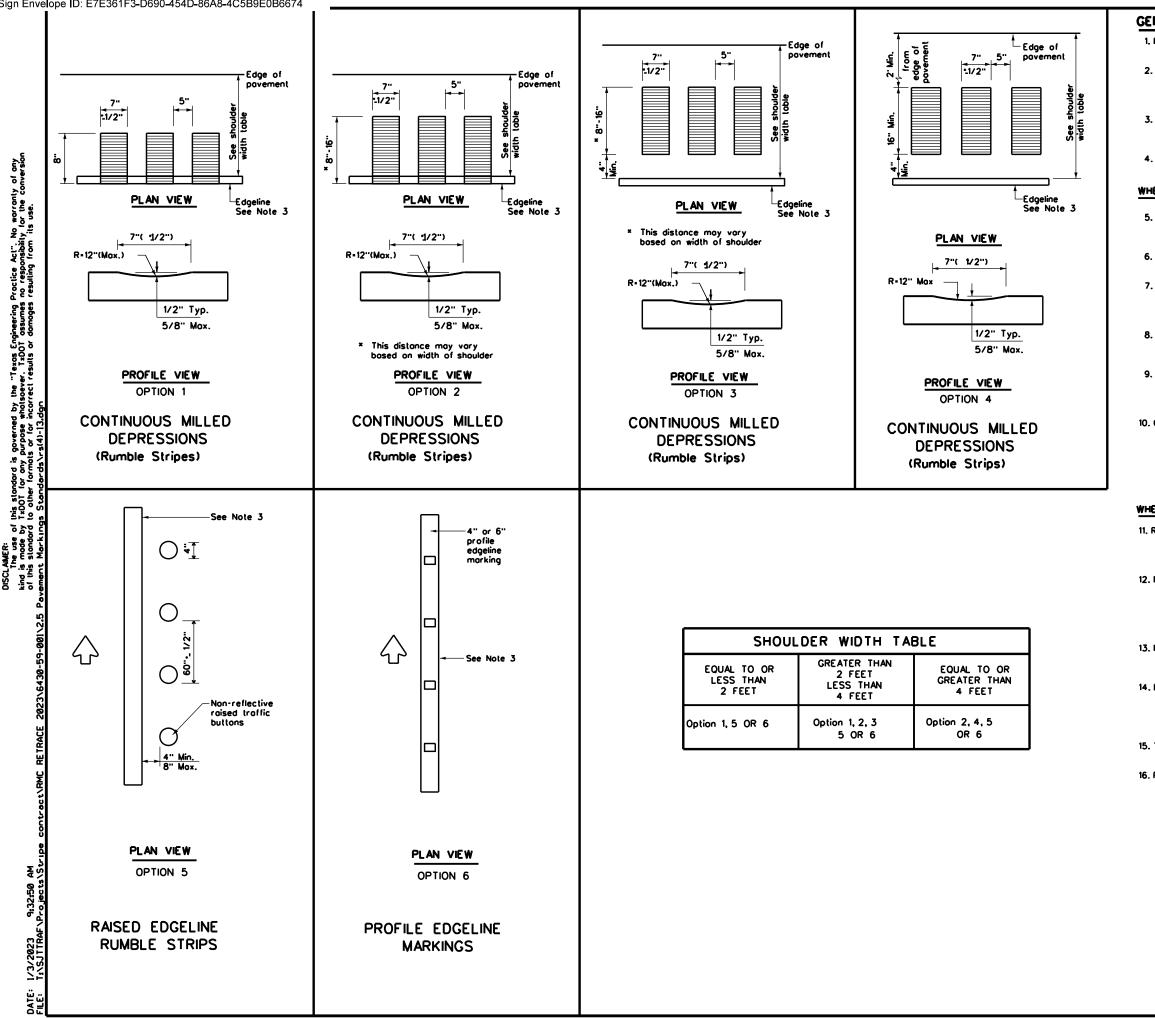
- 9. Roised rumble strips consisting of non-reflective roised traffic buttons may be used. Non-reflective raised traffic buttons can be affixed to asphalt or concrete with bitumen or adhesives, as per manufacturer's recommendations.
- 10. When using non-reflective raised traffic buttons as a centerline rumble strip, the button shall be placed adjacent to the pavement marking delineating the centerline. The buttons will be paid for under Item 672, "Raised Pavement Markers." Non-reflective traffic buttons must meet the requirements of DMS-4300.
- 11. The color of the button should be yellow for a continuous no possing roadway. Black buttons should be used in areas where passing is allowed.

#### WHEN INSTALLING EDGELINE RUMBLE STRIPS WITH OR WITHOUT CENTERLINE RUMBLE STRIPS ON UNDIVIDED HIGHWAYS:

12. See standard sheet RS(4).

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		Traf	fic Operat	tions D	ivisio	on Standard	1			
	CENTERLINE RUMBLE STRIPS ON TWO LANE TWO-WAY HIGHWAYS									
			RS	(3)	- 1	2				
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#### GENERAL NOTES

- 1. Rumble strips and profile markings shall not be placed on roadways with a posted speed limit of 45 MPH or less.
- 2. Milled rumble strips are preferred when adequate pavement depth is available. If povement thickness is less than 2 inches, milled rumble strips shall not be used. Rumble strips shall not be milled or depressed into bridge decks.
- 3. Use Standard Sheet PM(2) for positioning, dimensioning, and spacing of all reflective raised pavement markers, pavement markings, and profile markings.
- 4. See the table below for determining what options may be used for edgeline rumble strips.

#### WHEN INSTALLING MILLED DEPRESSION EDGELINE RUMBLE STRIPS:

- 5. See dimensions for milled rumble strips. Other shapes and dimensions may be used if approved by the Traffic Operations Division.
- 6. Pavement markings can be applied over milled shoulder rumble strips to create an edgeline rumble stripe.
- 7. Breaks in edgeline rumble strips shall occur at least 50 feet and no more than 150 feet in advance of bridges, rairoad crossings, intersections and driveways with high usage of large trucks when installed on conventional highways.
- 8. Rumble strips shall not be placed across exit or entrance ramps, acceleration and deceleration lanes, crossovers, gare areas or intersections with other roadways.
- 9. Consideration should be given to noise levels when edgeline rumble strips are installed near residential areas, schools, churches, etc. A minimum of 3/8 inches depth of milled rumble strip may be considered in these areas.
- On roadways with high bicycle activity, consideration should be given before the installation of edgeline rumble strips. Things to consider include size of rumble strips, rumble strip material and location of rumble strips on the shoulder. If the designer determines that gaps are needed in the rumble strips due to bicycle use of the road, then follow the requirement shown in FHWA Technical Advisory T5040.39, or latest version. A detail of the spacing shall be included in the plans.

#### WHEN INSTALLING RAISED OR PROFILE EDGELINE RUMBLE STRIPS:

- Roised rumble strips consisting of non-reflective roised troffic buttons may be used. Non-reflective roised troffic buttons can be offixed to asphalt or concrete with bitumen or adhesives, as per the manufacturer's recommendations.
- 12. Non-reflective traffic buttons shall be placed adjacent to the povement marking delineating the edgeline when used as a rumble strip. The color of the button should match the color of the adjacent edgeline marking (white or yellow). The buttons will be poid for under Item 672, "Raised Povement Markers." Non-reflective traffic buttons must meet the requirements of DMS-4300.
- 13. Non-reflective traffic buttons shall not be placed across exit or entrance ramps, acceleration and deceleration lanes, crossovers, gore areas or intersections with other roadways.
- 14. Breaks in edgeline rumble strips using raised traffic buttons shall occur at least 50 feet and no more than 150 feet in advance of bridges, railroad crossing, intersections and driveways with high usage of large trucks when installed on conventional highways.
- 15. The minimum distance between the edgeline and the buttons should be used if the shoulder is less than 8 feet in width.
- 16. Raised profile thermoplastic markings used as edgelines moy substitute for buttons.

Texas Department	of Tra	nsp	ortation	,	Ope Di	raffic rations vision ndard
EDGELINE RUMBLE STRIPS ON UNDIVIDED OR TWO LANE HIGHWAYS RS(4)-13						
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© TxDOT October 2013	CONT	SECT	JOB		н	GHWAY
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ACT SECTION 402	Refer to the Standard Specifications in the event historical issues or archeological artifacts are found during construction, Upon discovery of	General (applies to all
TPDES TXR 150000: Stormwater Discharge Permit or CGP required for projects with 1 or more acres disturbed soil. Projects with any disturbed soil must protect	archeological artifacts are found during construction, Upon discovery of archeological artifacts (bones, burnt rock, flint, pottery, etc.) cease work in the immediate area and contact the Engineer immediately.	Comply with the Hazar
for erosion and sedimentation in accordance with Item 506.	In Minimudate and and contact the Engineer infinitedately. In NO ACTION REQUIRED □ ACTION REQUIRED	Comply with the Hazar working with hazardou beginning construction workplace. Ensure tha
List MS4 Operator that may receive discharges from this project. The MS4 Operator may need to be notified prior to construction activities.	1. N/A	equipment appropriate Obtain and keep on-sit
1. N/A   M NO ACTION REQUIRED  ACTION REQUIRED  1.		which may include, but acids, solvents, asphal curing compounds or a covered, for products v required by the Act.
2. 3.		Maintain an adequate in the MSDS. In the ev indicated in the MSDS TxDOT District spill co
4.		responsible for the pro Contact the Engineer i
II. WORK IN OR NEAR STREAMS, WATERBODIES AND WETLANDS CLEAN WATER ACT SECTIONS 401 AND 404		Dead or distress Trash piles, dru Undesirable sm Evidence of lead
USACE Permit required for filling, dredging, excavating or other work in any water bodies, rivers, creeks, streams, wetlands or wet areas.	IV. VEGETATION RESOURCES	Does the project involv replacements (bridge of
Adhere to all of the terms and conditions associated with the following permit(s):	Preserve native vegetation to the extent practical.	
☑ No Permit Required □ Nationwide Permit 14 - PCN not Required (less than 1/10th acre waters or	Adhere to specification requirements of Items 162, 164, 192, 193, 506, 730, 751, 752 in order to comply with requirements for invasive species, beneficial landscaping, and tree/brush removal commitments.	If "No", then no furthe
wetlands affected) Nationwide Permit 14 - PCN Required (1/10 to <1/2 acre, 1/3 in tidal waters) Individual 404 Permit Required Other Nationwide Permit Required: NWP#	Iandscaping, and tree/brush removal commitments.         Image: Model of the second s	If "Yes", then TxDOT is assessment/inspectior Are the results of the a
The elevation of the ordinary high water marks of any areas requiring work to be performed in the waters of the US requiring the use of a nationwide permit can be found on the Bridge Layouts,		☐ YES If "Yes", then TxDOT r
Required Actions: List waters of the U.S. that the permit applies to, the location in project, and check BMP's planned to control erosion, sedimentation and post-construction TSS.		with the notification, de management activities postmarked at least 15
동 1. N/A		If "No", then TxDOT is any scheduled demolit
		In either case, the Con abatement activities ar Engineer and asbestos subsequent claims.
		Any other evidence inc discovered on site (haz this project):
	V. FEDERAL LISTED, PROPOSED THREATENED,	☑ NO ACTION RE 1. N/A
S S S S S S S S S S S S S S S S S S S	ENDANGERED SPECIES, CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES AND MIGRATORY BIRDS	1. IN/A
	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	
	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.	
	1. The Migratory Bird Treaty Act of 1918 states that it is unlawful to kill, capture, collect, possess, buy, sell, trade, or transport any migratory bird, nest, young, feather, or egg in part or in whole, without a federal permit issued in accordance with the Act's policies and regulations. Migration patterns would not be affected by the proposed project. Remove non-active migratory bird nests from structures where work would be performed from September 1 through the end of February. Prevent migratory birds from building nests from March 1 to August 31. In the event that migratory birds are encountered on stife during project construction, avoid adverse impacts on	
BEST MANAGEMENT PRACTICES	patterns would not be affected by the proposed project. Remove non-active migratory bird nests from structures where work would be performed from	
	September 1 through the end of February. Prevent migratory birds from building nests from March 1 to August 31. In the event that migratory birds are encountered on-site during project construction, avoid adverse impacts on	
	encountered on-site during project construction, avoid adverse impacts on protected birds, active nests, eggs, and/or young.	VII. OTHER E
<ul> <li>SOIL RETENTION BLANKETS</li> <li>BIODEGRADABLE EROSION CONTROL LOGS</li> <li>DIVERSION, INTERCEPTOR, OR PERIMETER SWALES</li> <li>DIVERSION, INTERCEPTOR, OR PERIMETER DIKES</li> </ul>		(Includes regional issu District, etc.)
NI ☐ TOPSOIL OR COMPOST		
GROUND COVER		1. N/A
U TEMPORARY SEDIMENT CONTROL FENCES		
S     SAND BAG BERMS       Ye     STRAW BALE DIKES       BRUSH BERMS     STRAW BALE DIKES		
ダ 読  STORM INLET SEDIMENT TRAPS		
	ABBREVIATIONS USED	
RETENTION/RRIGATION SYSTEMS     EXTENDED DETENTION BASINS     CONSTRUCTED WETLANDS     RETENTION BASINS     CONSTRUCTED WETLANDS     RETENTION BASINS	BMP - Best Management Practice         NOI - Notice of Intent           CGP - Construction General Permit         NWP - Nationwide Permit           CSN - Construction Site Notice         PCN - Pre-Construction Notification	
	DSHS - Texas Department of State Health PSL - Project Specific Location Services SW3P - Storm Water Pollution Prevention Plan	
Ü ü GRASSY SWALES	MSDS - Material Safety Data Sheet USACE - U.S. Army Corps of Engineers	

# OUS MATERIALS OR CONTAMINATION ISSUES

l projects):

ard Communication Act (the Act) for personnel who will be ous materials by conducting safety meetings prior to on and making workers aware of potential hazards in the nat all workers are provided with personal protective te for any hazardous materials used.

site MSDS for all hazardous products used on the project, ut are not limited to the following categories: paints, alt products, chemical additives, fuels and concrete additives. Provide protected storage, off bare ground and which may be hazardous. Maintain product labeling as

a supply of on-site spill response materials, as indicated event of a spill, take actions to mitigate the spill as S, in accordance with safe work practices, and contact the oordinator immediately. The Contractor shall be oper containment and cleanup of all product spills.

f any of the following are detected:

ssed vegetation (not identified as normal) ums, canister, barrels, etc. nells or odors aching or seepage of substances

lve any bridge class structure rehabilitation or class structures not including box culverts)?

action is required.

responsible for completing asbestos

asbestos inspection positive (is asbestos present)?

🗹 NO

🗹 NO

must retain a DSHS licensed asbestos consultant to assist levelop abatement/mitigation procedures, and perform is as necessary. The notification form to DSHS must be 5 working days prior to scheduled demolition.

still required to notify DSHS 15 working days prior to

ntractor is responsible for providing the date(s) for and/or demolition with careful coordination between the os consultant in order to minimize construction delays and

ndicating possible hazardous materials or contamination azardous materials or contamination issues specific to

EQUIRED

ACTION REQUIRED

1/3/2023



### ENVIRONMENTAL ISSUES

ues such as Edwards Aquifer

EQUIRED

ACTION RE	GUIR⊡ocuSigned by:
	Jesse Mendyr, P.E.

\_\_\_\_\_D95BA116BD9F4C2..

\* Texas Department of Transportation

San Angelo District

# ENVIRONMENTAL PERMITS ISSUES AND COMMITMENTS

SHEET 1 OF 1 NOT TO SCALE							
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#### How to contact Texas Department of Transportation:

You may contact us to let us know of your changes as to how we may contact you electronically, to request paper copies of certain information from us, and to withdraw your prior consent to receive notices and disclosures electronically as follows: To contact us by email send messages to: kevin.setoda@txdot.gov

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ii. send us an e-mail to kevin.setoda@txdot.gov and in the body of such request you must state your e-mail, full name, IS Postal Address, telephone number, and account number. We do not need any other information from you to withdraw consent. The consequences of your withdrawing consent for online documents will be that transactions may take a longer time to process.

#### **Required hardware and software**

Operating Systems:	Windows2000? or WindowsXP?
Browsers (for SENDERS):	Internet Explorer 6.0? or above
Browsers (for SIGNERS):	Internet Explorer 6.0?, Mozilla FireFox 1.0, NetScape 7.2 (or above)
Email:	Access to a valid email account
Screen Resolution:	800 x 600 minimum
Enabled Security Settings:	• Allow per session cookies

• Users accessing the internet behind a Proxy Server must enable HTTP
1.1 settings via proxy connection

\*\* These minimum requirements are subject to change. If these requirements change, we will provide you with an email message at the email address we have on file for you at that time providing you with the revised hardware and software requirements, at which time you will have the right to withdraw your consent.

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To confirm to us that you can access this information electronically, which will be similar to other electronic notices and disclosures that we will provide to you, please verify that you were able to read this electronic disclosure and that you also were able to print on paper or electronically save this page for your future reference and access or that you were able to e-mail this disclosure and consent to an address where you will be able to print on paper or save it for your future reference and access. Further, if you consent to receiving notices and disclosures exclusively in electronic format on the terms and conditions described above, please let us know by clicking the 'I agree' button below.

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Witness Events	Signature	Timestamp
Notary Events	Signature	Timestamp
Envelope Summary Events	Status	Timestamps
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Certified Delivered	Security Checked	1/3/2023 2:09:37 PM
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Completed	Security Checked	1/3/2023 2:10:28 PM
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