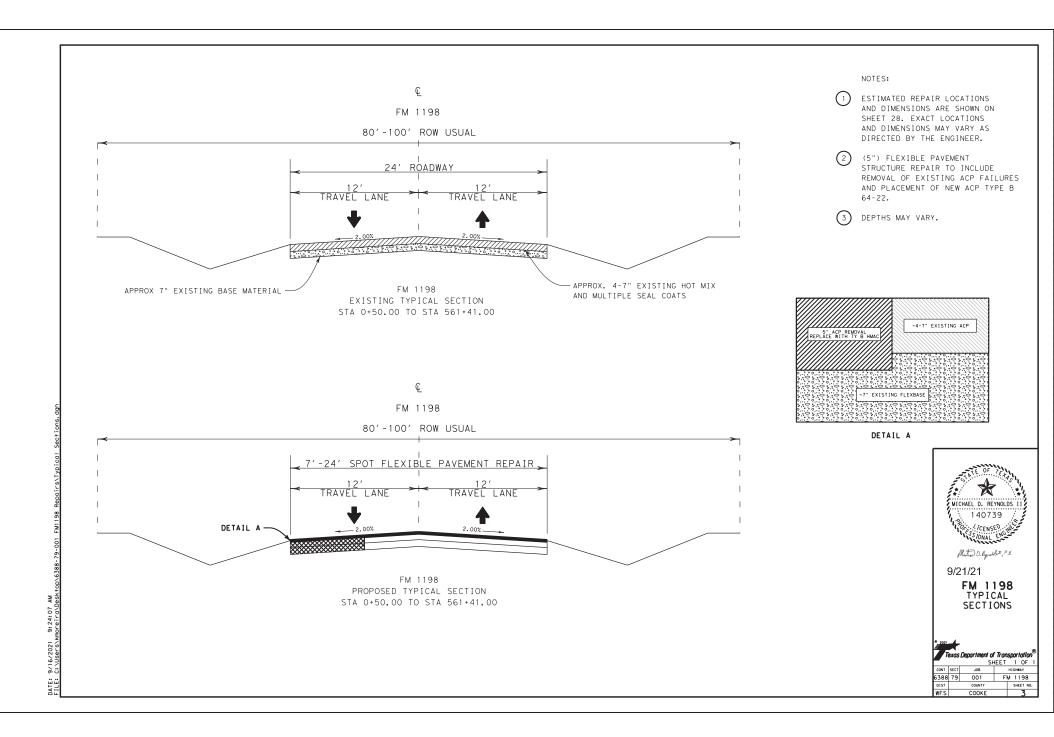


SHEEI_NO.	DESCRIPTION	INDEX OF SHEETS	
1 2 3 4-5 6 7	GENERAL TITLE SHEET INDEX OF SHEETS TYPICAL SECTIONS GENERAL NOTES ESTIMATE & QUANTITY QUANTITY SUMMARY		
# 8-19	IRAFF.IC_CONTROL_PLAN_STANDARDS BC(1)-14 THRU BC (12)-14		THE STANDARD SHEETS SPECIFICALLY IDENTIFIED WITH A "=" HAVE BEEN ISSUED BY ME AND ARE APPLICABLE TO THIS PROJECT.
# 20	TCP(1-2)-18		TO THIS PROJECT.
# 21	TCP (1-6)-18		
# 22 # 23	TCP (2-2) - 18		/// two D. вранит, Р.Е. 9/21/21 Дате
# 23 # 24	TCP(3-1)-13 WZ(STPM)-13		DATE
# 25	WZ (UL) - 13		
# 26	WZ (RS) - 16		TE OF ICAN
27	TREATMENT FOR VARIOUS EDGE CONDITIONS		# 5 × 1
	ROADWAY_DETAILS		MICHAEL D. REYNOLDS 11
28	PAVEMENT REPAIR LOCATIONS		140739
			CENSED, WEST
# 29	ROADWAY DETAILS STANDARDS TAPERED EDGE DETAILS HMAC PAVEMENT		NOSS JONAL ENGLA
			FM 1198 INDEX OF SH
			Texos Deportment of Texos SHEET cont sect B388 79 001 first contry WFS COOKE



County: Cooke

Sheet A

Highway: FM 1198

Control: 6388-79-001

GENERAL NOTES:

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

Mike Hallum, P.E.Mike.Hallum@Txdot.govLance Pomykal, P.E.Lance.Pomykal@txdot.gov

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

All contractor questions will be reviewed by the Engineer. Once a response is developed, it will be posted to TxDOT's Public FTP 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 4 Scope of Work

A preconstruction conference to discuss traffic control, traffic safety, construction sequences, and materials shall be held prior to the start of construction. Contractor's superintendent shall attend the preconstruction conference.

Item 5 Control of Work

The contractor shall make the necessary arrangements to do work that requires inspection or testing during a normal 8 hour workday if at all possible.

Item 7 Legal Relations and Responsibilities

No significant traffic generator events identified for this project.

The Contractor's Responsible Person (CRP) as described in item 7.2.6.1 must be able to respond within 45 minutes of being notified.

Item 8 Prosecution and Progress

Coordinate and update the work schedule with the project inspector daily. Give a minimum of 24 hours' notice to project inspector if work requiring inspection or testing is to be performed. Failure to do so may cause that work to be delayed or postponed if TxDOT personnel are not available. Work performed without suitable inspection, as determined by the Engineer, may be ordered removed and replaced at Contractor's expense.

General Notes

County: Cooke

Highway: FM 1198

Control: 6388-79-001

Sheet B

Item 351 Flexible Pavement Structure Repair

Locations are subject to approval by Engineer.

Complete full depth repair locations in one day and reopen to traffic. No full depth repair locations will be left open overnight unless otherwise directed by the Engineer.

Provide asphalt concrete pavement Type B - PG 64-22.

Use an approved project or maintenance hot mix design for restoring of the pavement structure. All testing of HMAC for pavement structure repair will be waived as directed by the Engineer.

Item 502 Barricades, Signs, and Traffic Handling

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

Contractor shall store all traffic control devices not currently being used at a location approved by the Engineer.

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

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

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

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.

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

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

General Notes

Sheet B SHEET 4

Count	tv:	Cooke	

Sheet C

Highway: FM 1198

Control: 6388-79-001

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

Repair barricades within 48 hours after barricade report has been delivered to the Contractor. Failure to comply will cease all work until barricades are repaired to the satisfaction of the Department. Replace all damaged traffic control devices immediately. Remove any damaged traffic control devices from the project within 24 hours.

Failure to make necessary corrections to Traffic Control items based on barricade inspections will be cause for withholding the monthly estimate until such corrections are made.

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

Refer to the "Treatment for Various Edge Conditions" sheet for the proper traffic control devices to be used for the various edge conditions.

The use of Automated Flagger Assistance Devices is not required, but may be used as an option to the Contractor and is subsidiary to Item 502.

A pilot car is required for this project. Provide a "Queue time" of no longer than 10 (ten) minutes during roadway work operations.

Item 666 Reflectorized Pavement Markings

The restriping of any affected pavement markings will be performed by TXDOT. Contact the TXDOT traffic office at 940-720-7700 as work is completed to allow time for scheduling this work within the 14 calendar days that tabs are allowed on the roadway per WZ(STPM)-13.

General Notes

							ESTIN	MATE	SUM	MAF	R Y					
								PROJECT RMC 638 CONTROL 006388 FM 1198 COOKE COUNTY		T C	TEM- CODE	DESCRIP	TION	U N I	TOTA	L
EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	ITEM	RESE	SP NO		Ť	EST.	FINAL
								28145.00		351	6001	FLEXIBLE PAVEMENT STRUCTURE RE	PAIR(5")	SY	28145.00	
								1.00		500	6001	MOBILIZATION		LS	1.00	
								1.00		502	6001	BARRICADES, SIGNS AND TRAFFIC		мо	1.00	
								50.00		662		WK ZN PAV MRK SHT TERM (TAB) 1	TY Y-2	EA	50.00	
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													03	COOKE	RMC 6388-79	-001 6

SUMM	ARY OF ROADWAY	ITEMS	
	351 6001	662 6111	6185 6002
LOCATION	FLEXIBLE PAVEMENT STRUCTURE REPAIR (5")	WK ZN PAV MRK SHT TERM (TAB)TY Y-2	TMA (STATIONARY)
	SY	EA	DAY
US0082 to Bradford St	852		1
Bradford St to FM1630	1279		2
FM1630 to FM0922	26013	50	16
PROJECT TOTALS	28145	50	19

FM 1198 QUANTITY SUMMARY

BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

- 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.
- 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 TxDDT "Roadway Design Manual" or engineering judgment.
- 6. When projects abut, the Engineer(s) may omit the END ROAD WORK, TRAFFIC FINES DOUBLE, and other advance warning signs if the signing would be redundant and the work areas appear continuous to the motorists. If the adjacent project is completed first, the Contractor shall erect the necessary warning signs as shown on these sheets, the TCP sheets or as directed by the Engineer. The BEGIN ROAD WORK NEXT X MILES sign shall be revised to show appropriate work zone distance.
- The Engineer may require duplicate warning signs on the median side of divided highways where median width will permit and traffic volumes justify the signing.
- 8. All signs shall be constructed in accordance with the details found in the "Standard Highway Sign Designs for Texas," latest edition. Sign details not shown in this manual shall be shown in the plans or the Engineer shall provide a detail to the Contractor before the sign is manufactured.
- The temporary traffic control devices shown in the illustrations of the 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 or near the CSJ limits. For mobile operations, CSJ limit signs are not required.
- Traffic control devices should be in place only while work is actually in progress or a definite need exists.
- 12. The Engineer has the final decision on the location of all traffic control devices.
- 13. Inactive equipment and work vehicles, including workers' private vehicles must be parked away from travel lanes. They should be as close to the right-of-way line as possible, or located behind a barrier or guardrail, or as approved by the Engineer.

WORKER SAFETY NOTES:

- 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

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

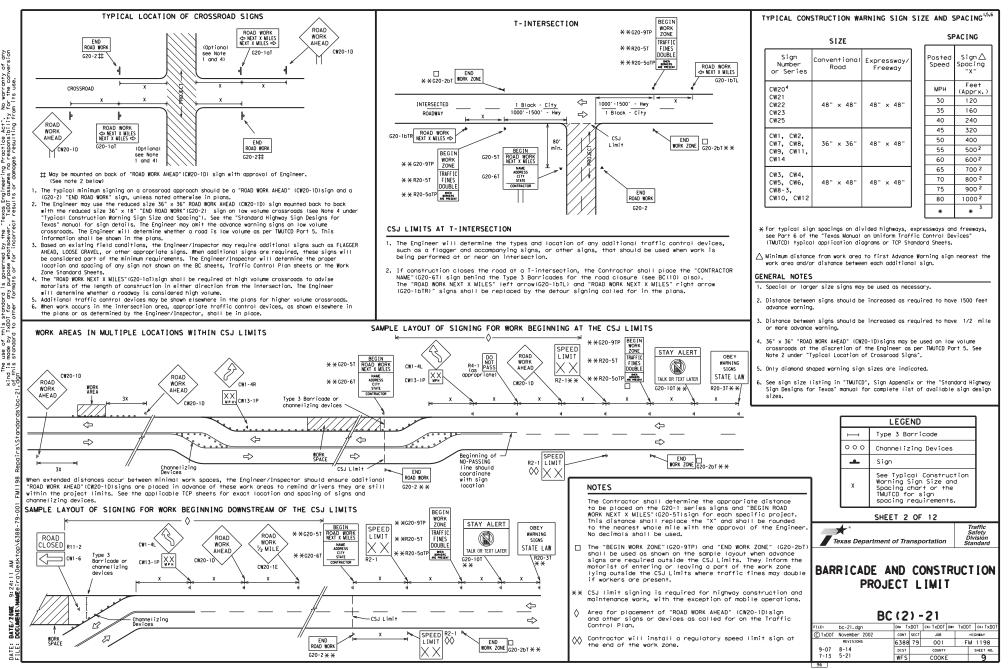
THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT	
http://www.txdot.gov	
COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST (CWZTCD)	
DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS)	
MATERIAL PRODUCER LIST (MPL)	
ROADWAY DESIGN MANUAL - SEE "MANUALS (ONLINE MANUALS)"	
STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD)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

SHEE	T 1	OF	12							
Traffic Safety Division Standard										
GENER	BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS									
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9-07 8-14	DIST		COUNTY		SHEET NO.					
5-10 5-21	WFS		COOKE		8					

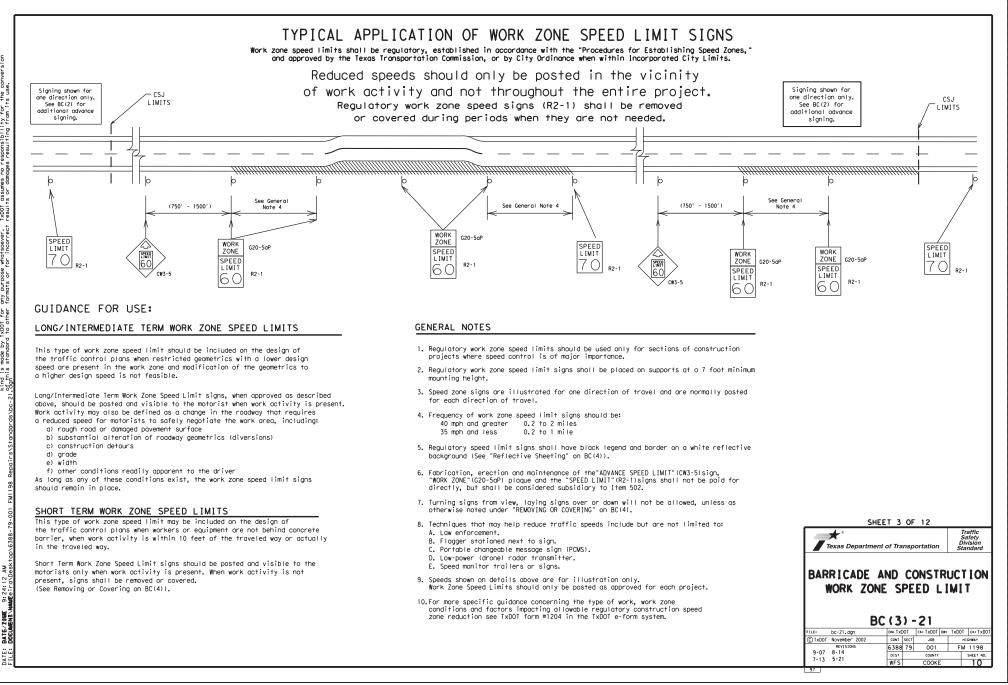
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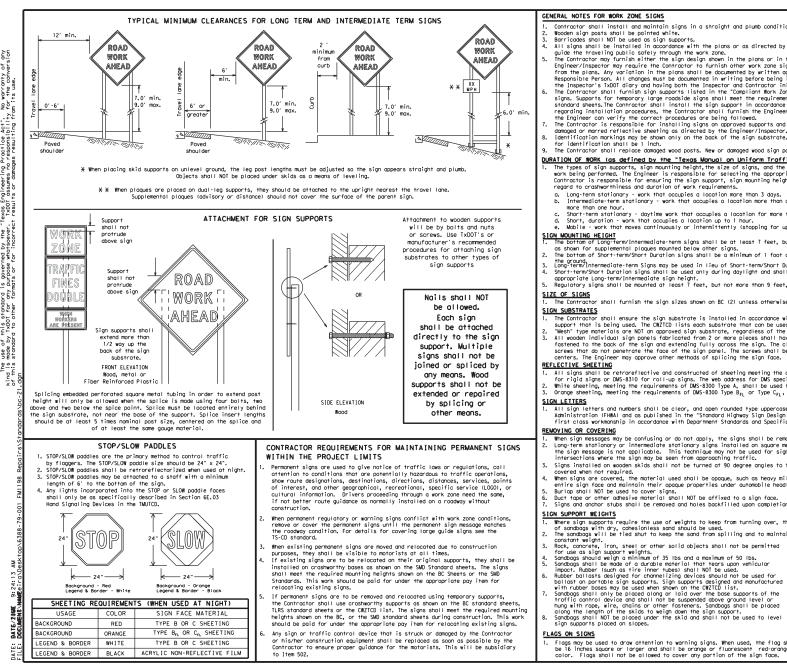
DOCUMENTAND

DATE:



DISCLAIMER: The use of kind is mode t of this stande





Contractor shall install and maintain signs in a straight and plumb condition and/or as directed by the Engineer,

- All signs shall be installed in accordance with the plans or as directed by the Engineer. Signs shall be used to regulate, warn, and upide the traveling public safely through the work zone. The Contractor may furnish either the sign design shown in the plans or in the "Standard Highway Sign Designs for Texas" (SHSD). The
- The contractor way found in a finite finite intersion of the contractor of found in the provision of the standard of the NMUCD but may have been onlitted from the plans. Any variation in the plans shall be documented by written agreement between the Engineer (insertion and the Contractor's Responsible Person, All changes must be documented in writing before being implemented. This continuide documenting the changes in the Inspector of shall be documented in the "Complement between the agreed upon changes. The Contractor's Isled in the "Complement Work Zone Formation" contracting the agreed upon changes. The Contractor is shall be documented in the "Complement Work Zone Formation" contracting the changes in the Inspector shall furnish sign supports listed in the "Complement Work Zone Formation" contracting the class.
- 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
- damaged or marred 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 Manual on Uniform Traffic Control Devices" 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. Contractor is responsible for ensuring the sign support, sign mounting height and substrate meets manufacturer's recommendations in regard to crashworthiness and duration of work requirements.
- Long-term stationary work that occupies a location more than 3 days.
- Intermediate-term stationary work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting Short-term stationary - daytime work that occupies a location for more than I hour in a single daylight period.
- Short, duration work that occupies a location up to 1 hour,
- Mobile work that moves continuously or intermittently (stopping for up to approximately 15 minutes.)
- The bottom of Long-term/intermediate-term signs shall be at least 7 feet, but not more than 9 feet, above the paved surface, except as shown for supplemental plaques mounted below other signs. The 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. Long term/Intermediate-term Signs may be used in Lieu of Short-term/Short Duration signing.
- Short-term/Short Duration signs shall be used only during daylight and shall be removed at the end of the workday or raised to
- appropriate Long-term/Intermediate sign height. Regulatory signs shall be mounted at least 7 feet, but not more than 9 feet, above the paved surface regardless of work duration.

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

- The Contractor shall ensure the sign substrate is installed in accordance with the manufacturer's recommendations for the type of sign "Wesh" type materials are NOT an approved sign substrate that can be used on the different types and models of sign supports. "Wesh" type materials are NOT an approved sign substrate, regardless of the tightness of the weave.
- All wooden individual store of the sign and extending fully across the sign. The cleat shall be attached 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.
- 1. All signs shall be retroreflective and constructed of sheeting meeting the color and retro-reflectivity requirements of DMS-8300
- for rigid signs or DNS-8310 for roll-up signs. The web address for DMS specifications is shown on B(1). White sheeting, meeting the requirements of DMS-8300 Type A, shall be used for signs with a white background.
- 3. Orange sheeting, meeting the requirements of DWS-8300 Type B_{FL} or Type C_{FL}, shall be used for rigid signs with orange backgrounds.
- 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.
- 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 tubing may be turned away from traffic 90 degrees when the sign message is not applicable. This technique may not be used for signs installed in the median of divided highways or near any intersections where the sign may be seen from approaching traffic.
- Signs installed on wooden skids shall not be turned at 90 degree angles to the roadway. These signs should be removed or completely Sovered when not required. When signs are covered, the material used shall be opaque, such as heavy mil black plastic, or other materials which will cover the
- entire sign face and maintain their opaque properties under automobile headlights at night, without damaging the sign sheeting.
- Duct tape or other adhesive material shall NOT be affixed to a sign face.
- Signs and anchor stubs shall be removed and holes backfilled upon completion of work
- 1. Where sign supports require the use of weights to keep from turning over, the use
- The soundbags will be field shut to keep the sound be used. The soundbags will be field shut to keep the sound be used. Rock, concrete, iron, steel or other solid objects shall not be permitted

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



Texas Department of Transportation

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BARRICADE AND CONSTRUCTION

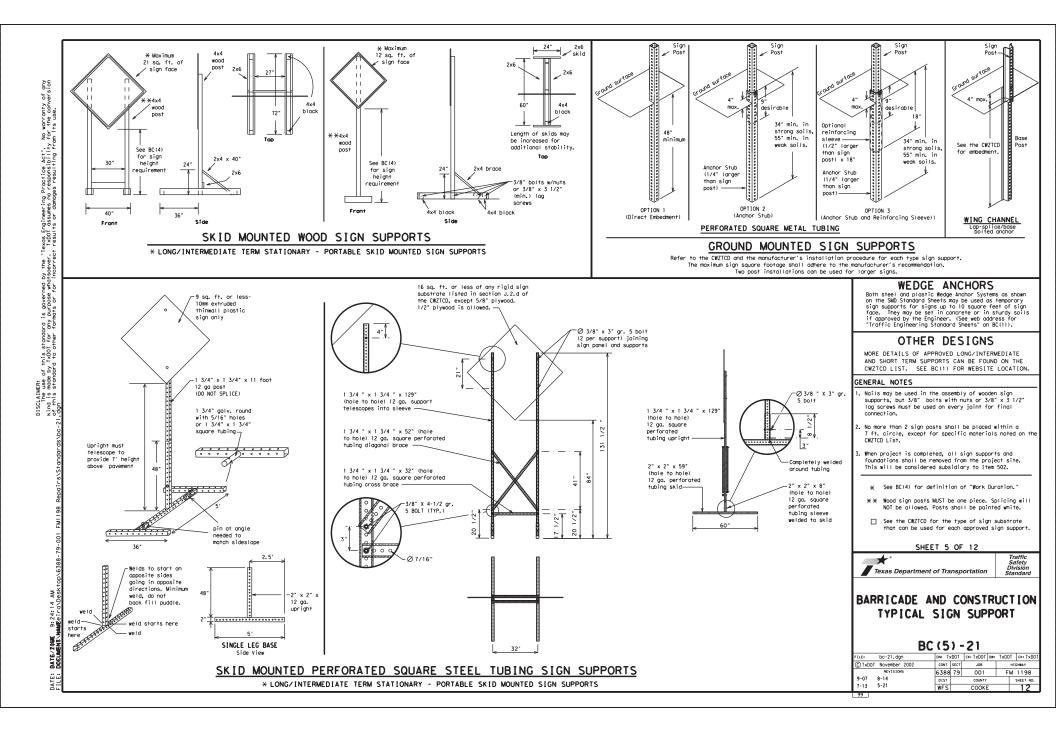
Traffic

Safety Division

TEMPORARY SIGN NOTES

BC(4)-21

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) TxDOT	November 2002	CONT SECT JOB HIGHMAN		GHWAY				
REVISIONS		6388	79	001		FM	1198	
9-07	8-14	DIST	T COUNTY			SHEET NO.		
7-13	5-21	WFS	COOKE				11	
98								



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

PORTABLE CHANGEABLE MESSAGE SIGNS

- 1. The Engineer/Inspector shall approve all messages used on portable changeable message signs (PCMS).
- Messages on PCMS should contain no more than 8 words (about four to 2. eight characters per word), not including simple words such as "TO," "FOR, " "AT, " etc. 3. Messages should consist of a single phase, or two phases that
- alternate. Three-phase messages are not allowed. Each phase of the message should convey a single thought, and must be understood by itself.
- Use the word "EXII" 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. When in use, the bottom of a stationary PCMS message panel should be
- 6. a minimum 7 feet above the roadway, where possible. 7. The message term "WEEKEND" should be used only if the work is to
- start on Saturday morning and end by Sunday evening at midnight. Actual days and hours of work should be displayed on the PCMS if work
- is to begin on Friday evening and/or continue into Monday morning. 8. The Engineer/Inspector may select one of two options which are available for displaying a two-phase message on a PCMS. Each phase may be displayed for either four seconds each or for three seconds each.
- Do not "flash" messages or words included in a message. The message should be steady burn or continuous while displayed.
- Do not present redundant information on a two-phase message; i.e., keeping two lines of the message the same and changing the third line.
- Do not use the word "Danger" in message.
 Do not display the message "LANES SHIFT LEFT" or "LANES SHIFT RIGHT" on a PCMS. Drivers do not understand the message.
- 13. Do not display messages that scroll horizontally or vertically across
- the face of the sign. 14. The following table lists abbreviated words and two-word phrases that are acceptable for use on a PCMS. Both words in a phrase must be displayed together. Words or phrases not on this list should not be abbreviated, unless shown in the IMUTCD.
- 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 and the second of the second o
- 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
- PCMS has malfunctioned. A pattern such as a series of horizontal solid bars is appropriate.

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

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

Phase 2: Possible Component Lists

* * Advance

Notice List

TUE-FRI

XX AM-

X PM

APR XX-

XХ

X PM-X AM

BEGINS

MONDAY

BEGINS

MAY XX

MAY X-X

XX PM -

ΧΧ ΔΜ

NEXT

FRI-SUN

XX AM

ТΟ

XX PM

NEXT

TUE

AUG XX

TONIGHT

XX PM-

XX AM

Road/Lane/Ram	np Closure List	Other Cond	ition List	Ac†
FREEWAY CLOSED X MILE	FRONTAGE ROAD CLOSED	ROADWORK XXX FT	ROAD REPAIRS XXXX FT	
ROAD CLOSED AT SH XXX	SHOULDER CLOSED XXX FT	FLAGGER XXXX FT	LANE NARROWS XXXX FT	
ROAD CLSD AT FM XXXX	RIGHT LN CLOSED XXX FT	RIGHT LN NARROWS XXXX FT	TWO-WAY TRAFFIC XX MILE	
RIGHT X LANES CLOSED	RIGHT X LANES OPEN	MERGING TRAFFIC XXXX FT	CONST TRAFFIC XXX FT	
CENTER LANE CLOSED	DAYTIME LANE CLOSURES	LOOSE GRAVEL XXXX FT	UNEVEN LANES XXXX FT	
NIGHT LANE CLOSURES	I-XX SOUTH EXIT CLOSED	DETOUR X MILE	ROUGH ROAD XXXX FT	
VARIOUS LANES CLOSED	EXIT XXX CLOSED X MILE	ROADWORK PAST SH XXXX	ROADWORK NEXT FRI-SUN	
EXIT CLOSED	RIGHT LN TO BE CLOSED	BUMP XXXX FT	US XXX EXIT X MILES	
MALL DRIVEWAY CLOSED	X LANES CLOSED TUE - FRI	TRAFFIC SIGNAL XXXX FT	LANES SHIFT	• [
XXXXXXXX BLVD CLOSED	¥ LANES SHIFT in Phas	e 1 must be used with	STAY IN LANE in PI	nase 2.

Phase 1: Condition Lists

Ac†i		e∕E Lis	ffect on Trave st	el	Location List		Warning List	××A No†i	
	MERGE RIGHT		FORM X LINES RIGHT		AT FM XXXX		SPEED LIMIT XX MPH	×	UE (X X
	DETOUR NEXT X EXITS		USE XXXXX RD EXIT		BEFORE RAILROAD CROSSING		MAXIMUM SPEED XX MPH	AF X F	PR) PM
1	USE EXIT XXX		USE EXIT I-XX NORTH		NEXT X MILES		MINIMUM SPEED XX MPH		BE (
	STAY ON US XXX SOUTH		USE I-XX E TO I-XX N		PAST US XXX EXIT		ADVISORY SPEED XX MPH		BE (
l	TRUCKS USE US XXX N		WATCH FOR TRUCKS		XXXXXXX TO XXXXXXX		RIGHT LANE EXIT	X	AY X XX
	WATCH FOR TRUCKS		EXPECT DELAYS		US XXX TO FM XXXX		USE CAUTION		ne R I
	EXPECT DELAYS		PREPARE TO STOP				DRIVE SAFELY		XX 1 XX
	REDUCE SPEED XXX FT		END SHOULDER USE				DRIVE WITH CARE		NE T
	USE OTHER ROUTES		WATCH FOR WORKERS					×	ON (X X X
2.	STAY IN LANE	*			*	¥ See A	oplication Guidel	ines Note 6	j.

APPLICATION GUIDELINES

- 1. Only 1 or 2 phases are to be used on a PCMS.
- The 1st phase (or both) should be selected from the "Road/Lone/Romp Closure List" and the "Other Condition List".
- 3. A 2nd phase can be selected from the "Action to Take/Effect on Travel, Location, General Warning, or Advance Notice
- Phase Lists". 4. A Location Phase is necessary only if a distance or location
- is not included in the first phase selected.
- 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.
- For advance notice, when the current date is within seven days of the actual work date, calendar days should be replaced with days of the week. Advance notification should typically be for no more than one week prior to the work.

WORDING ALTERNATIVES

- The words RIGHT, LEFT and ALL can be interchanged as appropriate.
 Roadway designations IH, US, SH, FM and LP can be interchanged as
- oppropriate.
- EAST, WEST, NORTH and SOUTH (or abbreviations E, W, N and S) can be interchanged as appropriate.

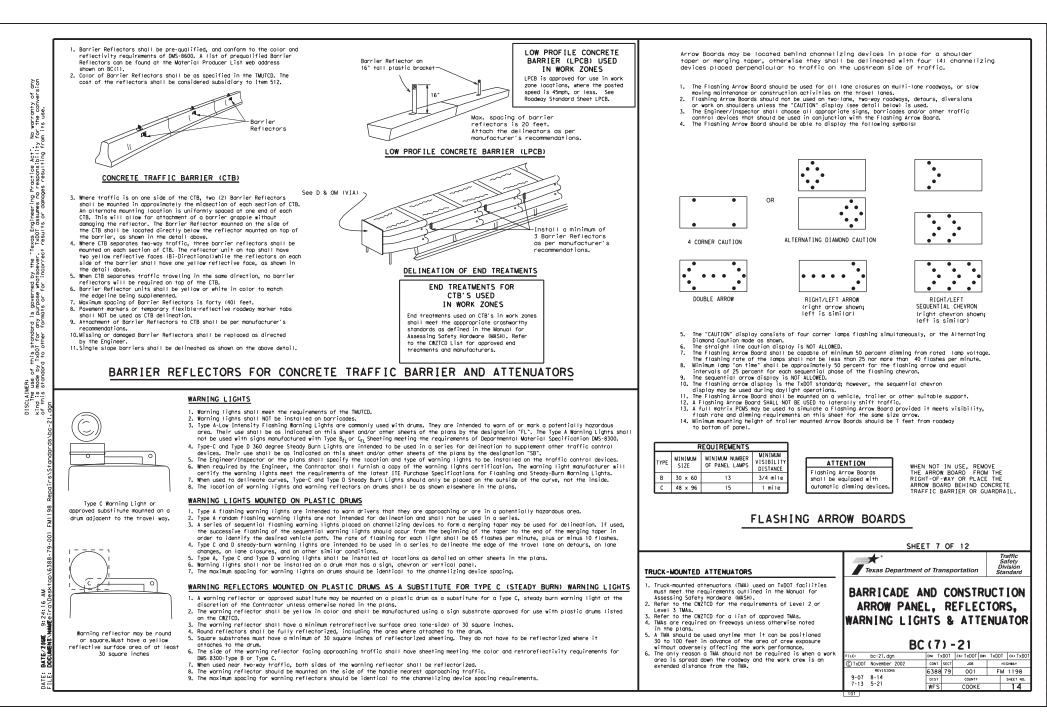
- Highway names and numbers replaced as appropriate.
 ROAD, HIGHWAY and FREEWAY can be interchanged as needed.
- 6. AHEAD may be used instead of distances if necessary.
- FT and MI, MILE and MILES interchanged as appropriate.
 AT, BEFORE and PAST interchanged as needed.
- 9. Distances or AHEAD can be eliminated from the message if a location phase is used.
- SHEET 6 OF 12 * Traffic PCMS SIGNS WITHIN THE R.O.W. SHALL BE BEHIND GUARDRAIL OR Safety Division Standard Texas Department of Transportation 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 BARRICADE AND CONSTRUCTION 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. PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) 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 BC (6) - 21 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 bc-21 dar DN: TxDOT CK: TxDOT DW: TxDOT CK: TxDO CTxDOT November 2002 CONT SECT IOP HICHWAY for, or replace that sign. 4. A full matrix PCWS may be used to simulate a flashing arrow board provided it meets the visibility, flash rate and dimming requirements on BC(7), for the REVISIONS 6388 79 001 EM 1198 9-07 8-14 DIST SHEET NO. COUNTY designation # IH-number, US-number, SH-number, FM-number same size arrow. 7-13 5-21 WES COOK 13 100

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GENERAL NOTES

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1. For long term stationary work zones on freeways, drums shall be used as the primary channelizing device.

Handle -

Top should not

of water or

4" min 8" max

(typ)-

2" max

(typ.)

36

debris

- a

36"

allow collection

4" max_

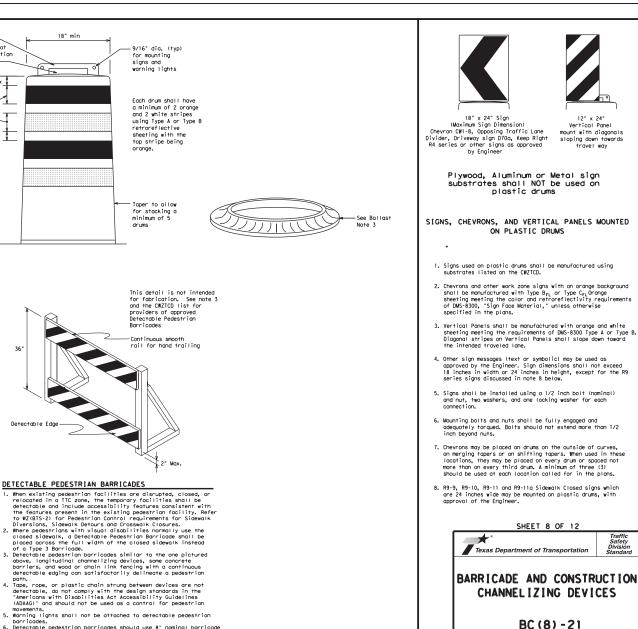
- 2. For intermediate term stationary work zones on freeways, drums should be used as the primary channelizing device but may be replaced in tangent sections by vertical panels, or 42" two-piece cones. In tangent sections, one-piece cones may be used with the approval of the Engineer but only if personnel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

GENERAL DESIGN REQUIREMENTS

- Pre-qualified plastic drums shall meet the following requirements:
- Plastic drums shall be a two-piece design; the "body" of the drum shall be the top portion and the "base" shall be the bottom.
- The body and base shall lock together in such a manner that the body separates from the base when impacted by a vehicle traveling at a speed of 20 MPH or greater but prevents accidental separation due to normal handling and/or air turbulence created by passing vehicles.
- Plastic drums shall be constructed of lightweight flexible, and deformable materials. The Contractor shall NOT use metal drums or
- single piece plastic drums as channelization devices or sign supports. 4. Drums shall present a profile that is a minimum of 18 inches in width at the 36 inch height when viewed from any direction. The height of drum unit (body installed on base) shall be a minimum of 36 inches and a maximum of 42 inches.
- 5. The top of the drum shall have a built-in handle for easy pickup and shall be designed to drain water and not collect debris. The handle shall have a minimum of two widely spaced 9/16 inch diameter holes to allow attachment of a warning light, warning reflector unit or approved compliant sign.
- 6. The exterior of the drum body shall have a minimum of four alternating orange and white retroreflective circumferential stripes not less than 4 inches nor greater than 8 inches in width. Any non-reflectorized space between any two adjacent stripes shall not exceed 2 inches in width
- 7. Bases shall have a maximum width of 36 inches, a maximum height of 4 inches, and a minimum of two footholds of sufficient size to allow base to be held down while separating the drum body from the base.
- 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 The simples used on draffic sharing declaration during of sheeting interning interning interning interning interning sheeting she in the plans.
- The sheeting shall be suitable for use on and shall adhere to the drum surface such that, upon vehicular impact, the sheeting shall remain adhered in-place and exhibit no detaminating, cracking, or loss of retroreflectivity other than that loss due to abrasion of the sheeting surface.

BALLAST

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



Detectable pedestrian barricades 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 6. splinters, burrs, or sharp edges.

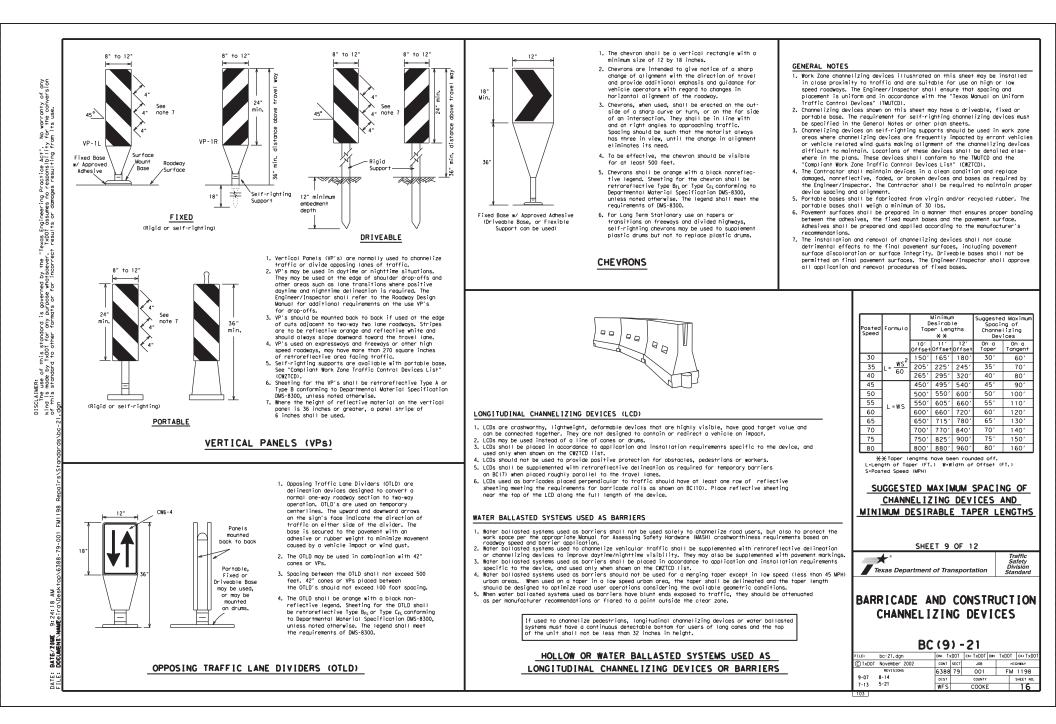
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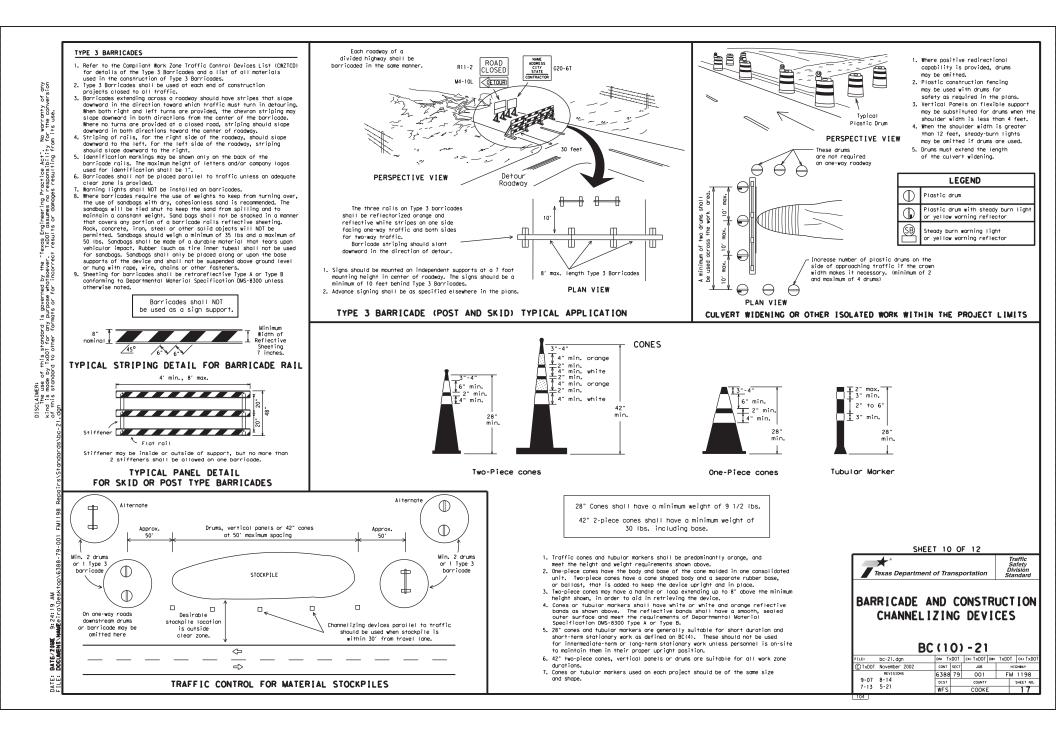
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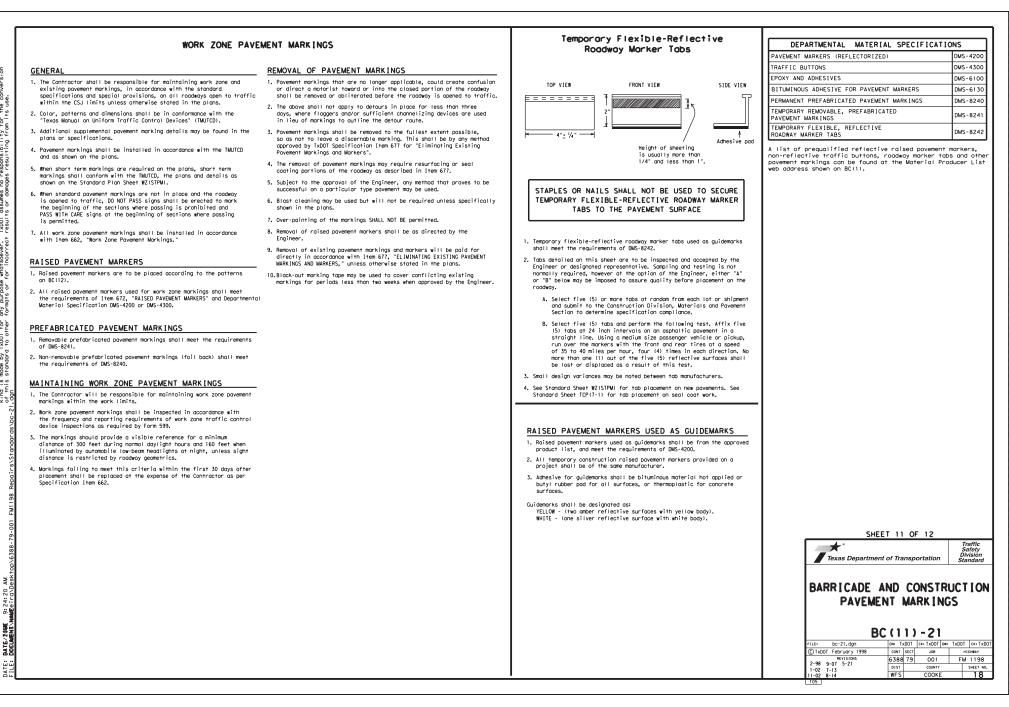
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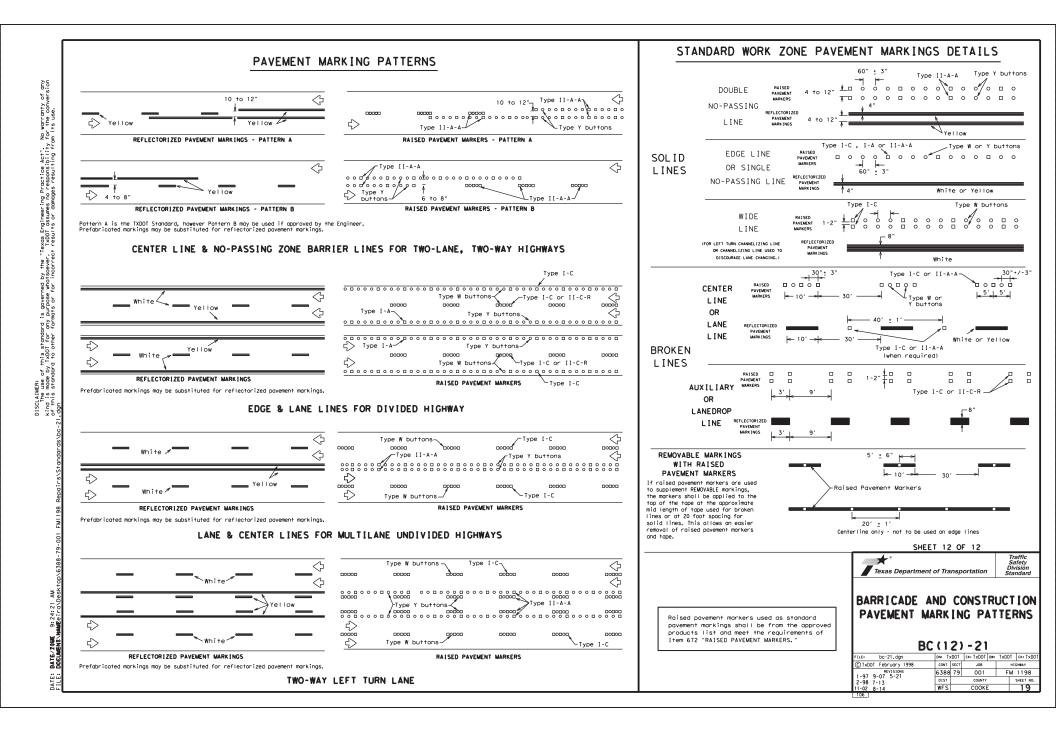
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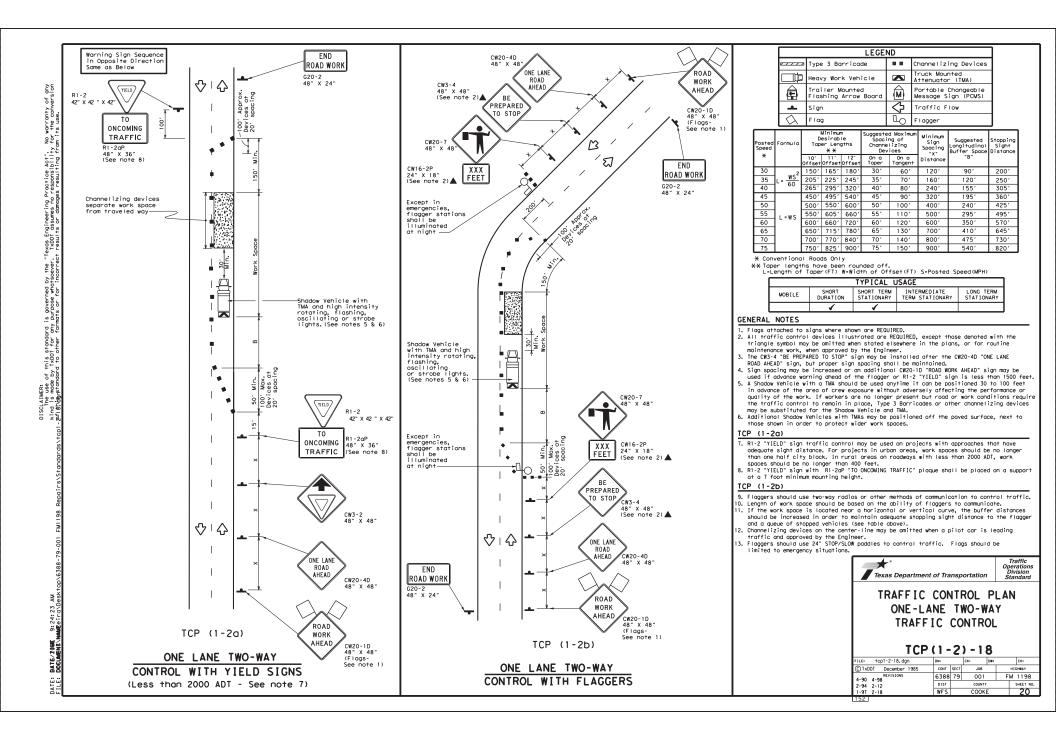
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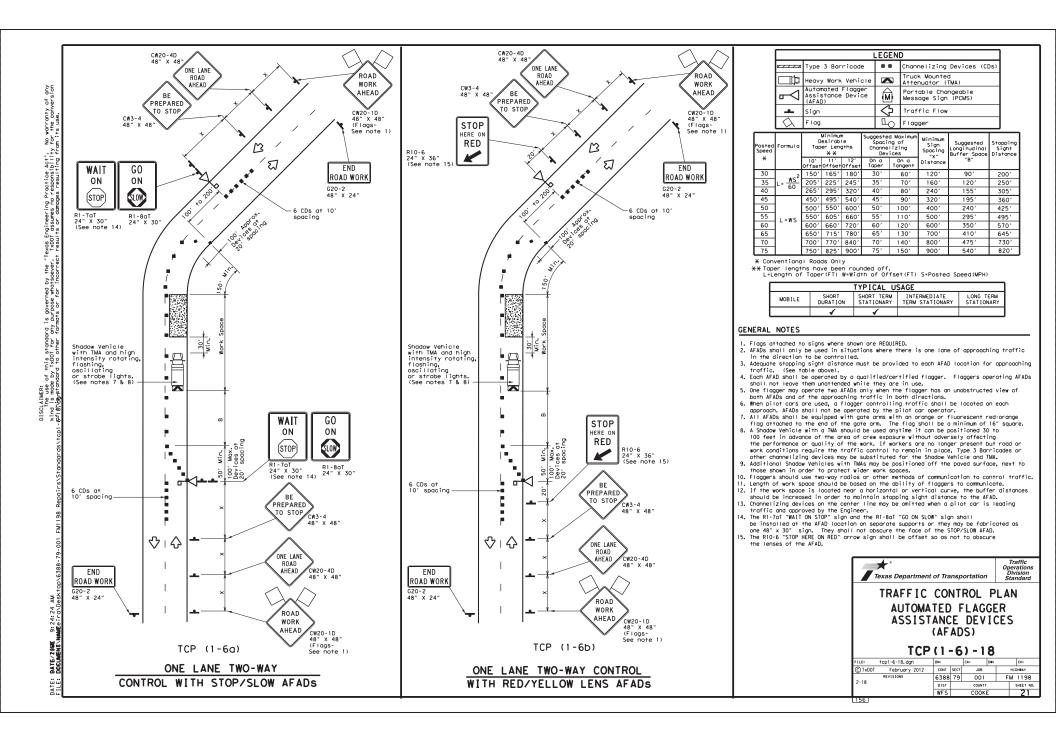


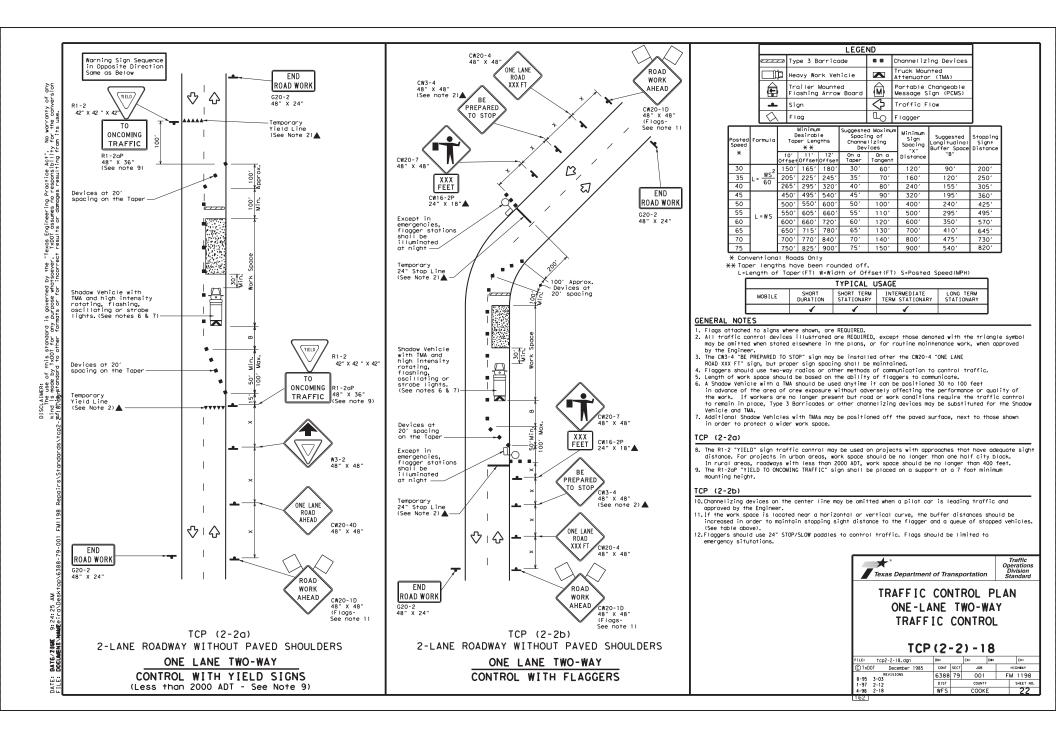


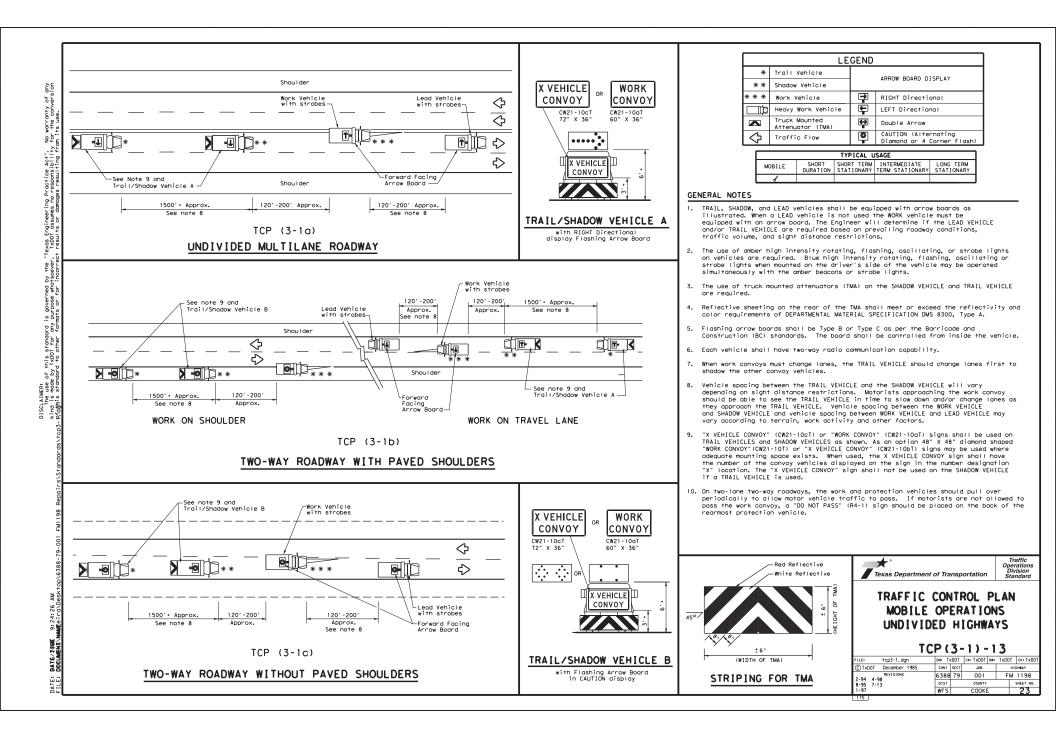


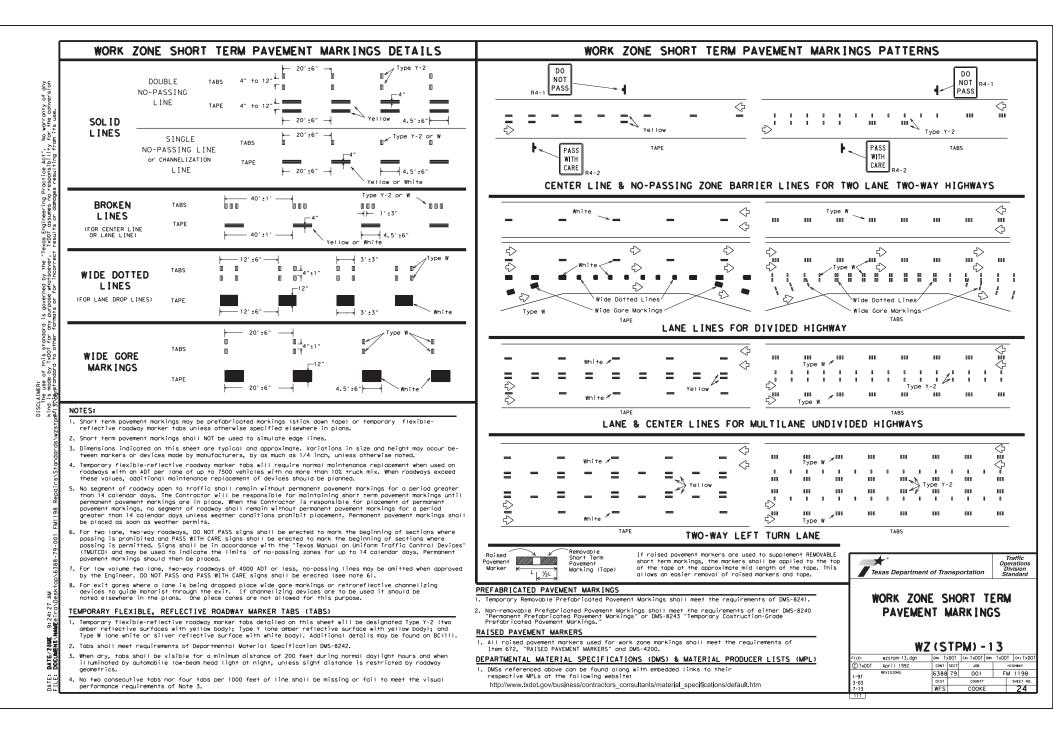


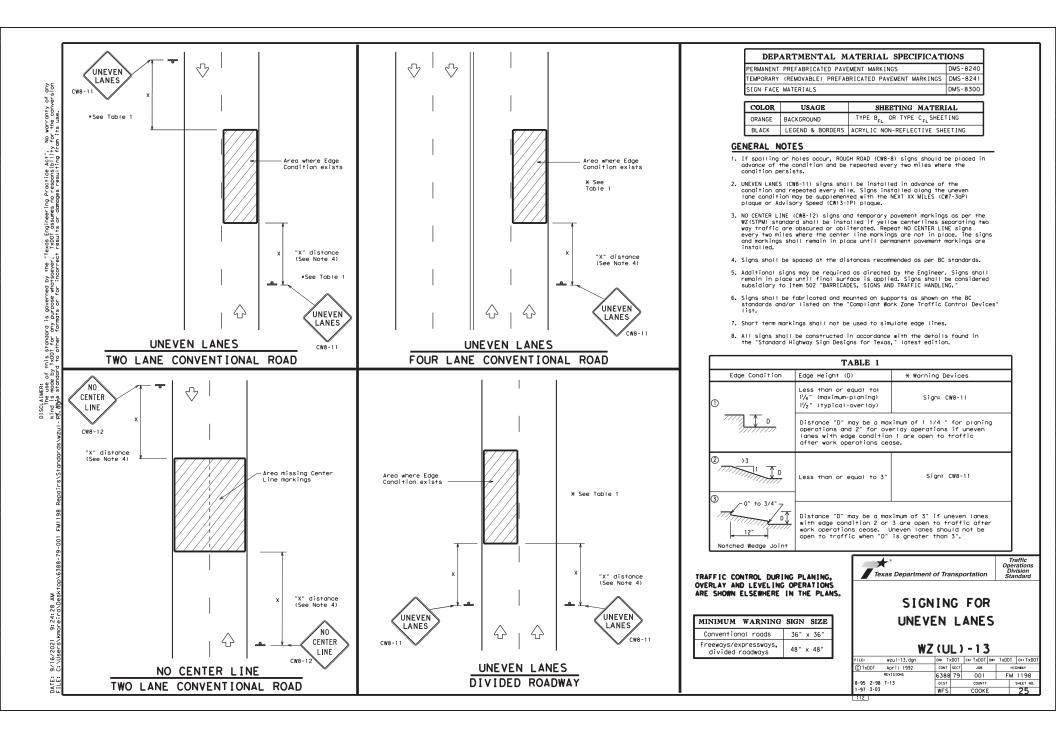


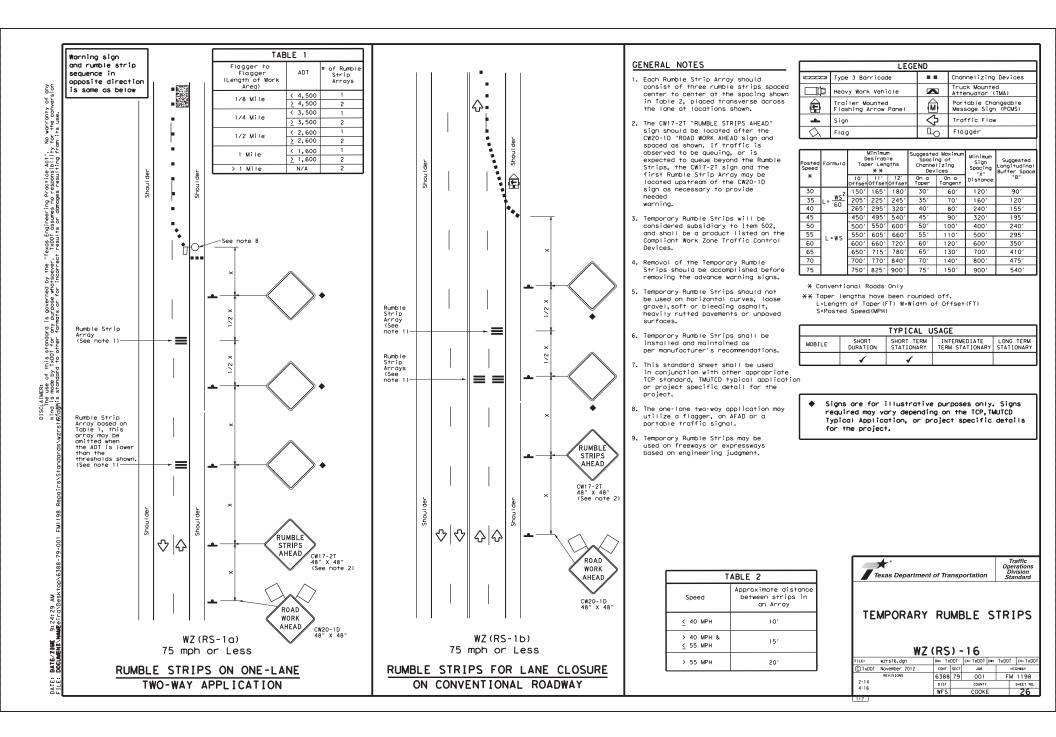


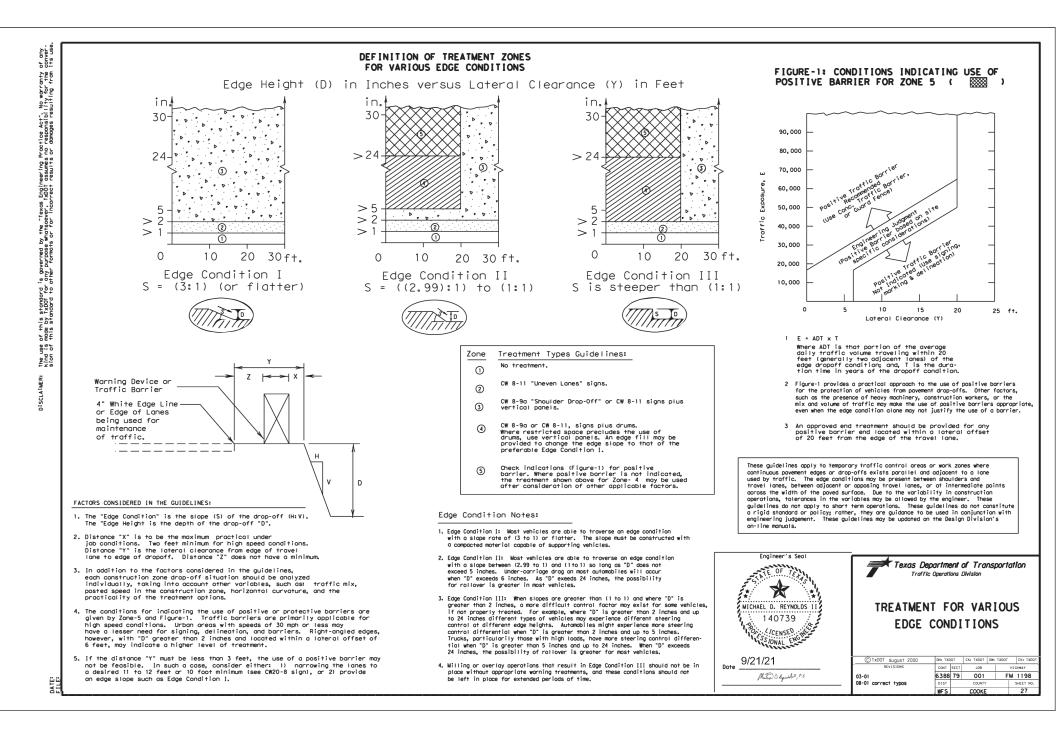












LOCATION NO.	LATITUDE	LONGITUDE	LANE	LENGTH (FT)	WIDTH (FT)	SY
1	33.6467787	-97.3128407	SB	35	7	27.2
2	33.6429144	-97.3128716	NB	150	7	116.7
2	55.6429144	-91.3128116	SB	35	7	27.2
3	33.6384729	-97.3129577	NB	40	7	31.1
4	33.6317902	-97.3130647	SB	400	7	311.1
5	33.6286856	-97.3144158	NB	30	12	40.0
6	33.6259827	-97.3144246	SB	130	12	173.3
0	22.0229021	-91.3144240	NB	50	7	38.9
7	33,6254442	-97,3144953	SB	40	12	53.3
l l	55.0254442	-91.3144955	NB	25	12	33.3
8	33.620762	-97.3146740	SB	70	7	54.4
9	33.6188238	-97.3153328	SB	55	7	42.8
10	33.5960654	-97.3293138	SB	60	7	46.7
10	55.5900054	- 91. 2292120	SB	180	7	140.0
11	33.5816312	-97.3306429	NB	1200	7	933.3
1.1	33, 3010312	-97.3300429	SB	80	7	62.2
12	33.5775664	-97.3306526	NB	45	7	35.0
13	33.5769061	-97.3307113	NB	400	7	311.1
14	33.5745024	-97.3307250	NB & SB	8000	VARIOUS	13389.4
15	33.5519368	-97.3296189	SB	100	7	77.8
16	33.5506945	-97.3292927	NB & SB	3000	VARIOUS	5766.7
17	33.5391937	-97.3298905	NB	600	7	466.7
18	33.5372744	-97.3307411	NB & SB	2000	VARIOUS	3011.1
19	33.5315461	-97.330779	NB & SB	700	VARIOUS	622.2
20	33.5295114	-97.3308055	NB	200	7	155.6
21	33.5275265	-97.3308963	NB	1200	7	933.3
22	33.5175346	-97.3288528	NB	900	7	700.0
23	33.5155709	-97.3286228	SB	300	7	233.3
24	33.5065651	-97.3287512	NB	100	7	77.8
25	33.5057462	-97.3288454	SB	300	7	233.3

NOTES:

EXACT LOCATIONS AND DIMENSIONS MAY VARY AS DIRECTED BY THE ENGINEER.

> FM 1198 PAVEMENT REPAIR LOCATIONS

 Charas Department of Transportation

 SHEET 1 OF 1

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