DESCRIPTION

SEE SHEET 2

SHEET NO.

DEPARTMENT OF TRANSPORTATION STATE OF TEXAS

HIGHWAY ROUTINE MAINTENANCE CONTRACT PLANS OF PROPOSED

NET LENGTH = 244,569.6 FT = 46.32 MI PROJECT NO. RMC: 6470-27-001

COUNTY: MAVERICK, ETC. PROJECT LIMITS: VARIOUS

RMC# 6470-27-001 HIGHWAY: US 277, ETC.

SURFACE TREATMENT AND PAVEMENT MARKINGS FOR THE CONSTRUCTION OF SEAL COAT TYPE WORK CONSISTING OF

KINNEX

: AOTDARTNOD FINAL CONTRACT COST: \$_ DATE WORK WAS COMPLETED & ACCEPTED: DATE CONTRACTOR BEGAN WORK:

FINAL PLANS

LETTING DATE: ..

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

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96769	13,162	400.00	\$8.0+ 88E	ZAVALA COUNTY LINE	KEF MRK 392	Z9SN	7	WAVERICK
98914	978.7	818+1.28	04,1+018	10.308 EAST OF US57 INTERCEPTION	2F480	772SU	3	
1/998	149,1	69°L+ 99°E	90.0- 998	YAWDAOR TO DUE	77ZSU	7061MF	2	
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RAILROAD CROSSINGS; NONE EXCEPTIONS: NONE MAVERICK

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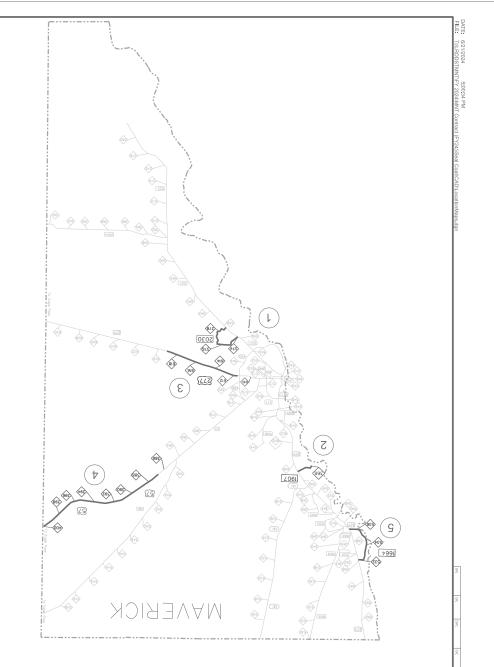
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CTILLIAN (C)	RPM DETAILS	16-22	
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E OF CONSTRUCTION		12	
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	GENERAL NOTE	01-8	
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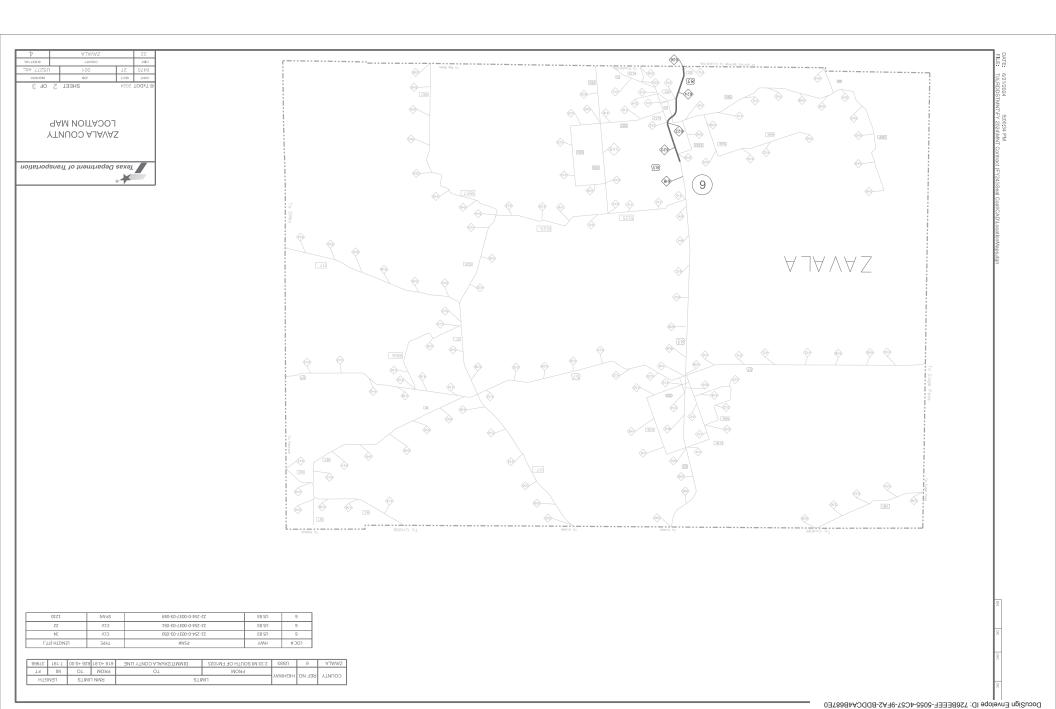
MAVERICK COUNTY
LOCATION MAP

© TXDOT 2024 SHEET | OF 3

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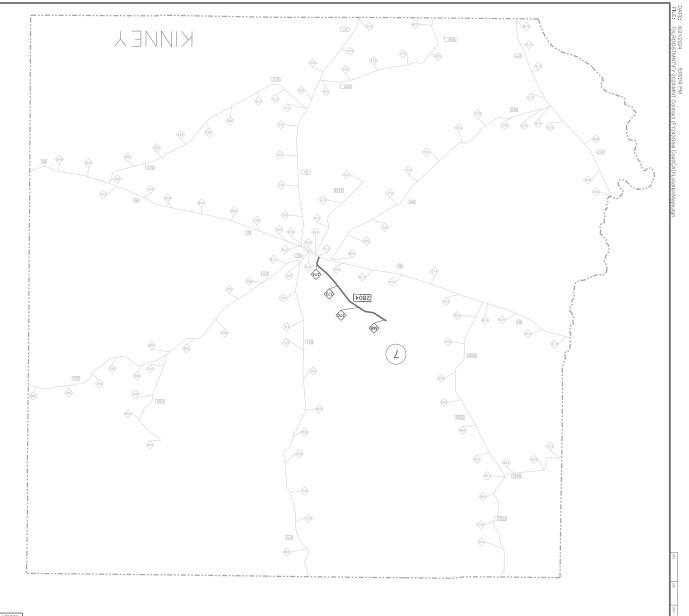
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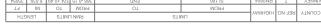
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Texas Department of Transportation

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TYPICAL SECTIONS	
Texas Department of Transportation	_

A tood2 General Notes

Perform work expeditiously during daylight hours.

approved by the Engineer.

Maintain the right-of-way in a satisfactory appearance as shown in the plans and/or as

appurtenances caused by equipment or personnel to its original condition or as directed by the Repair any damages incurred to existing fences, signs, sign posts, curbs, or any other

during normal working hours only.

always providing a safe passage for traffic. Access is available to the TxDOT Maintenance Yard beginning work. Outline the proposed work and submit plans for performing the work while Arrange a Pre-work Meeting between representatives of the State and the Contractor prior to

directed to Vanessa Rosales-Herrera, P.E., at Vanessa.Rosales@txdot.gov.

Questions concerning the specifications, work requirements, etc. of this contract should be

Angel.Alejo@txdot.gov and Irazema Cavazos at Irazema.Cavazos@txdot.gov

1817 Bob Bullock Loop, Laredo, Texas 78043. The contact persons are Angel Alejo at Plans may be reviewed at Laredo District office of the Texas Department of Transportation,

organized by: District, Project type (Construction or Maintenance), Letting Date, CCSI/Project All questions submitted that generate a response will be posted through this site. This site is

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

https://tableau.txdot.gov/views/ProjectinformationDashboard/NoticetoContractors

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

> Irazema.Cavazos at Irazema.Cavazos@txdot.gov Angel Alejo at Angel-Alejo@txdot.gov

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

approval by the Engineer.

Highway: US 277, ETC.

Project Number: RMC: 6470-27-001

extends through a period of 120 Working Days. Request to use additional crews will require Zavala. Contract becomes effective upon the issuance of a Work Order by the Engineer and This contract is for the seal coat project of various counties which include Maverick, Kinney, and

GENERAL NOTES:

County: Maverick, etc.

Control: 6470-27-001

ITEM 7 - LEGAL RELATIONS & RESPONSIBILITIES

(lane lines, edge lines, ramp gores, etc.) are in-line with signs on OSB's, TMS arrows, etc. passing zones to be re-established. Place extra reference (if needed) to ensure the markings Reference all existing striping and pavement markings in a manner which allow the passing/no

General Notes

ITEM 5 - CONTROL OF THE WORK

(830)263-2326 Brackettville, TX 78832 918 East Military Highway Brandon Baxter Kinney County

(830)365-4211 7192-877(088) Pryor, TX 78872 Eagle Pass, TX 78852 2440 Main St. LS SU W 448 Arnulfo Longoria Charles Fite Zavala County Maverick County

For this project, the Maintenance Supervisors in charge are:

Engineer.

times, places, Contractor inspections and all other issues of the day or topics as directed by the Prior to beginning work each day, meet with the respective Maintenance Supervisor. Discuss

SUPERVISION

measures as needed to comply with the appropriate sections of Federal and State Regulations. When working near aerial electrical lines and/or utility poles, provide adequate safety

roadway surface and work zone striping within the project limit while the traffic control plan is Materials removed become the property of the Contractor for proper disposal. Maintain the

Engineer. The work will not be paid for separately but will be subsidiary to the various bid Remove all existing raised pavement markings as the work progresses or as approved by the

which details are not shown in the plans.

Conform to the Texas Manual on Uniform Traffic Control Devices (TMUTCD) for sign types for

Control: 6470-27-001 Highway: US 277, ETC. Project Number: RMC: 6470-27-001

County: Maverick, etc.

Sheet B

 Project Number: RMC: 6470-27-001
 County: Mavench, etc.

 Highway: US 277, ETC.
 Control: 6470-27-001

Use vacuum sweeper in curb and gutter sections. Clean area with approved method.

ITEM 438 - CLEANING AND SEALING JOINS

The contractor will advise the Engineer of any loose or damaged seal joint areas not noted in the plans. Upon approval from the Engineer, these areas will be addressed and the Contractor compensated for such additional work.

After cleaning and sealing of joints, care will be taken to assure that the bent caps and abutment seats are clean of all debris. Cleaning and removal of this excess material will not be paid for directly but will be subsidiary to this item.

Class 3 – hot poured rubber sealant shall be used with ACP overlay. Class 4-low modulus silicone, nonsag shall be used on vertical faces on bridge

elements. Class 7 -low modulus silicone, rapid curing, self-leveling shall be used without

ACP overlay and existing armor joints. Refect to the 2024 Standard Specification for additional info

Refer to the 2024 Standard Specification for additional information.

ITEM 500 - MOBILIZATION

"Materials-on-Hand" payments will not be considered in determining percentages used to compute mobilization payments.

ITEM 502 - BARRICADE, SIGNS AND TRAFFIC HANDLING

Designate, as the Contractor Responsible Person (CRP), an English-speaking employee on-call nights and weekends (or any other time that work is not in progress) with a local address and nights and weekends (or any other time that work is not in progrees. This employee will be located within one (1) hour of traveling time to the project site. Notify the Engineer in writing of the name, address and telephone number of this employee. Furnish this information to local law enforcement officials.

Comply with Article 7.2., "Safety."

The time frame for the Contractor to provide properly maintained traffic control devices before they are considered to be in non-compliance with this Item is 48-hours regardless of the days of the week involved after notification is done in writing by the Engineer.

When advanced warning flashing arrow panel(s) is/are specified, it is required to maintain one standby unit in good condition at the Job site ready for immediate use.

General Notes Sheet D

 Project Number: RMC: 6470-27-001
 County: Mavenck, etc.

 Highway: US 277, FTC.
 Control: 6470-27-001

Roadway closures during the following key dates and/or special events are prohibited: January 1, Easter Weekend, the last Monday in May, July 4, the first Monday in September, the fourth Thursday in November, and December 25.

ITEM 8 - PROSECUTION AND PROGRESS

Before starting work, provide a sequence of work and estimated progress schedule meeting the requirements of Section 8.5.2, "Progress Schedule."

Mighttime work will be allowed to be performed, as approved and directed by the Engineer. Refer to the Sequence of Work, Traffic Control Plan, etc. shown in the plans, for other details. The usual open season for application of asphalt is from: April 1st to September 30th, or as approved in writing by the Engineer. The late start date for the project is May 1st to coincide with the end of the asphalt season. The minimum temperature requirements should be followed for the application of asphalt outside these dates.

THEM 9 - MEASUREMENT AND PAYMENT

For payment through TxDOT state force account method, complete the weekly tracking forms provided by the department and submit invoices that agree with the tracking form for payment at the end of each month approved services were provided.

Submit Material on hand (MOH) payment requests at least _X_ working days prior to the end of the month for payment on that month's estimate. For out-of-town MOH submit requests at least 10 working days prior to the end of the month.

ITEM 316 - SEAL COAT

The usual open season for application of asphalt is from: April 1st to September 30th. The minimum temperature requirements should be followed for the application of asphalt outside these dates.

All asphalt and aggregate tickets must be submitted for payment and project closure.

Remaining aggregate stockpiles must be removed no later than 30 days after all roadway locations have been sealed, unless otherwise approved by the Director of Maintenance. After this period, the aggregate becomes property of the state.

In accordance with SP 316-001, Certifications are required for department and contractor personnel.

Remove excess accumulated rock (Windrow) from edge of pavement swept by brooms. Self-propelled broom sweeper working properly and have an approved bristle size. Approved thermal probe, gauge method for temperature reading, easy and safe access.

General Notes

Highway: US 277, ETC. Control: 6470-27-001 County: Maverick, etc. Project Number: RMC: 6470-27-001

ITEM 666 - REFLECTORIZED PAVEMENT MARKINGS

Reflectivity requirements for Type I will be as per Item 666.

minimum time of 7 days and not later than 14 days after the placement of the surface Pavement sealer for pavement markings will be a Type II marking and will be installed after a

treatment, unless otherwise approved by the Engineer.

sealer, unless otherwise approved by the Engineer. Install Type I pavement marking after a minimum of 7 days after the placement of pavement

passing test results are received. Payment on Type I markings requiring retroreflective testing will be made at a 75% rate until

> Highway: US 277, ETC. Control: 6470-27-001 County: Maverick, etc. Project Number: RMC: 6470-27-001

> cannot communicate with one another. Provide two-way radios in areas where flagmen do not have visual contact with one another or

> Control Plan (TCP) standards. TMAs shall conform to the requirements established in the Provide shadow vehicles equipped with Truck Mounted Attenuators (TMA) as shown on Traffic

Limit lane closures to a maximum of 2 miles. If more than one lane closure location is desired, TMUTCD and the Department's Compliant Work Zone Traffic Control List.

for each location. provide a minimum of a 2 mile passing zone between locations. Provide a separate sign set up

Ensure equipment not in use, stockpile aggregate, and other working materials are:

Do not interfere with roadway drainage. Do not interfere with the access from abutting property; or Do not obstruct traffic or sight distance. A minimum of 30 feet from the edge of the travel lane.

signing or necessary sight distance at intersections and curves. Erect signs in locations not obstructing the traveling public's view of the normal roadway

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

ITEM 503 - PORTABLE CHANGEABLE MESSAGE SIGN

Provide backups and keep operational and available on the jobsite at all times during traffic Provide two (2) electronic portable changeable message signs as required by the Engineer.

utilization for the entire duration of the project, including all alternative locations. control operations. The electronic portable changeable message signs will be made available for

ITEM 505 - TRUCK MOUNTED ATTENUATOR (TMA) AND TRAILER

project, including all alternative locations. Mounted Attenuators will be made available for utilization for the entire duration of the operational and available on the jobsite at all times during traffic control operations. The Truck Provide 2 Truck Mounted Attenuators as required by the Engineer. Provide backup and keep

ITEM 510 - ONE-WAY TRAFFIC CONTROL

General Notes

Sheet E

Sheet F General Notes

TCP GENERAL NOTES:

- facilities are constructed and ready to use. Handle excavated and stockpiled material in such a way that it will 13. Maintain all existing drainage conditions during all construction phases until the permanent drainage
- when it is necessary for trucks to stop, unload, or cross roadways under traffic, provide warning signs and 14. Regulate all construction traffic so as to cause a minimal inconvenience to the traveling public. At times
- flaggers as needed to adequately protect the traveling public.
- the plans or as directed by the Engineer. 15. During non-work hours, all drop-offs are to be filled to a 3:1 maximum slope except as otherwise noted in
- 16. Notify the Engineer in writing two weeks prior to shifting traffic within each phase of the
- each work day. 17. Remove from the work all loose materials and debris resulting from construction operations at the end of
- 18. Maintain a minimum of one through lane open in each direction during working hours except as directed by
- supports at permanent locations will be paid for under the applicable bid item(s). 19. Moving an existing sign to a temporary location is subsidiary to this item. Installations with permanent
- is acceptable. by the Engineer. For locations that are adjacent to each other, a single sign in advance of the entire work area 20. Use of portable changeable message signs as advance notice of lane closures will be required, as directed
- the closures or as directed by the Engineer. 21. Place portable changeable message boards at locations requiring lane closures at least 2 weeks before
- construction, as shown on TCP standards. Additional signs, barricades, etc. (if any), will be subsidiary to Items 22. Additional signs, barricades, and channelizing devices may be required to maintain traffic during
- boards, at their own expense. be responsible for providing all applicable traffic control devices, including portable changeable message 23. If the contractor chooses to work multiple locations in urban/rural areas simultaneously, the contractor will
- words and two-word phrases that are acceptable for use on PCMS. Submit the suggested message for the 24. Refer to BC(6)-13 Portable Changeable Message Sign (PCMS) Standards for a listing of abbreviated
- 26. Limit the length of daily work to that area of operation that can be completed in one work day in order to 25. Use plastic drums to channelize traffic when existing pavement markings have been obliterated. board to the Engineer for approval.
- allow for two-way traffic at night. Such area must not exceed two (2) miles, unless approved by the Engineer.
- Within the 2 mile section, only close off the area where actual work

502, "Barricades, Signs, and Traffic Handling".

is being performed.

the Engineer.

Traffic Control Plan.

not block drainage.

control will be paid for directly through Item 510. equipment, labor, and incidentals required for this method of traffic car with necessary flaggers, radio equipped flaggers and all signs, undivided roadway locations as directed by the Engineer. The pilot A pilot car and radio equipped flaggers are required for all

- the Department, the plan sheets may be developed and signed and sealed by the Engineer. beneficial changes are proposed to the existing Traffic Control Plan and are agreed upon by the Contractor and signed and sealed by a Licensed Professional Engineer in Texas, for approval by the Engineer. When mutually 1. This is a suggested Traffic Control Plan (TCP). The Contractor may submit an alternate Traffic Control Plan,
- the Traffic Control Plan. 2. Refer to Item 8, "Prosecution and Progress" and project General Motes for additional information regarding
- (TXMUTCD), the State Standard Traffic Control Plans (TCP) sheets, and the Barricades and Construction (BC) markings, in compliance with the latest version of the Texas Manual on Uniform Traffic Control Devices 3. Furnish and install all Traffic Control devices, including but not limited to barricades, signs, and work zone
- Construction will require approval by the Engineer. in the sequence of construction. Any additional overnight lane closures not specified in the Sequence of further information. Allow for all lanes to be open to traffic during non-working hours unless otherwise specified 4. Limit the length of lane closures to a maximum of two miles. Refer to the TCP Sequence of Construction for
- vertical curves, horizontal curves, and other geometric constraints to assure visibility to all motorists. 5. Verify the location and spacing of signs, barricades, and channelizing devices prior to their placement along
- required as directed by the Engineer. worked continuously through completion. Additional signing to safely guide traffic through the work area will be simultaneously when approved by the Engineer. Once work has begun at a reference location, it must be 6. The work has been identified by reference location numbers. Various reference locations can be worked on
- enough barricades, channelizing devices, and signs at all times to replace those damaged. 7. Place the traffic control devices only while work is actually in progress or a definite need exists. Always have
- sign all the time is not permitted. as directed by the Engineer. Partial coverage of a sign or coverage by a material that will not cover the entire 8. Cover all existing signs that conflict with the Traffic Control Plan and uncover during non-working hours or
- and at proper locations). traffic control devices and work zone pavement markings are kept in a highly visible condition (clean, upright, 9. Vary the spacing of the signs to meet traffic conditions or as directed by the Engineer and assure that all
- 10. Maintain the roadway surface and work zone striping within the project while the Traffic Control Plan is in
- WZ(STPM)-13, BC (10)-14, BC (11)-14, and the TxMUTCD. effect. Place and be responsible for all work zone pavement markings in accordance with the Standard Sheets
- two-way traffic or a minimum of one lane using a pilot vehicle and flaggers. crossings except as otherwise shown in the Sequence of Construction. The contractor will maintain at all times construction. Provide for safe and convenient access to abutting property, highways, public roads, and street continuous movement of traffic in all allowable directions at all times or as permitted by the sequence of 11. Conduct traffic operations so as to provide the least possible interference to traffic and to permit the
- not in use, at a minimum of 30 feet from the outer edge of the nearest travel lane. 12. Place all stockpiled material, waste material, signs, barricades, channelizing devices, and work vehicles

22 MAVERICK, etd6470 27 001 US277, et CONTROL SECTION JOB HIGHWAY NO. TO 1 T33H2 SAX3T

TCP GENERAL NOTES

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PHASE III-PLACE TEMPORARY PAVEMENT MARKINGS

REMOVE WORK ZONE SHORT TERM TABS AND MARKINGS FOR THE LIMITS SHOWN.

TYPE I PAVEMENT MARKINGS. PAVEMENT MARKING SEALER SHALL BE OF TYPE II. INSTALL TEMPORARY PAVEMENT MARKINGS (PAVEMENT SEALER) BEFORE INSTALLING

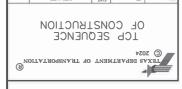
PHASE IV-USE TCP (3-1)-13,TCP(3-3)-14

SUPPLEMENTAL PAVEMENT MARKINGS SHEETS FOR MORE DETAILS. INSTALL FINAL PAVEMENT MARKINGS. REFER TO PM STANDARDS SHEETS AND

AND EDGELINES. REFER TO RS(2)-13, RS(3)-13. TYPE I PROFILE PAVEMENT MARKINGS SHALL BE USED FOR ALL LOCATIONS ON CENTERLINES

PHASE V-PERFORM FINAL CLEAN UP

PERFORM FINAL CLEAN UP AND REMOVE ALL BARRICADES, AS DIRECTED BY THE ENGINEER.



22 NAVERICK, etc 6470 27 001 US277, et COMINOL SECTION JOB HIGHWAY NO.

1 30 1 133HS SAX3

COUNTY

GENERAL INSTRUCTIONS

TO THE TCP PHASES, TCP GENERAL NOTES AND CORRESPONDING PLAN SHEETS FOR THE FOLLOWING WORK WILL BE PERFORMED ON THE ROADWAY. REFER

MORE DETAILED INFORMATION.

WITH TCP, BC AND WZ TXDOT STANDARD SHEETS FOR TRAFFIC CONTROL SETUP. INSTALL ALL APPLICABLE BARRICADES, SIGNS, WORK ZONE MARKINGS IN ACCORDANCE

GENERAL SEQUENCES OF CONSTRUCTION

EACH ROADWAY PROJECT SHALL BE PERFORMED IN FIVE (5) PHASES. THESE ARE DISTRICT WIDE ROADWAY SURFACING SEALCOAT PROJECTS. WORK ON

PHASE I - SET UP TEMPORARY BARRICADES FOR TRAFFIC CONTROL.

PHASE II - REMOVE RPM'S AND PLACE SEAL COAT.

PHASE III - PLACE SEAL TEMPORARY PAVEMENT MARKINGS.

PHASE V - PERFORM FINAL CLEAN UP.

PHASE I USE BC((1)-(12))-21 & TCP(SC-7)-21

PHASE IV - PLACE FINAL PAVEMENT MARKINGS & RAISED PAVEMENT MARKERS.

BC(12)-21 INCLUDED IN THE PLANS ON THE PROPOSED LOCATIONS. INSTALL PROJECT BARRICADES ACCORDING TO THE BC STANDARDS BC(1)-21 THRU

OPERATIONS (TCP (SC-7)-21) ON THE PROPOSED LOCATIONS BEFORE COMMENCING WORK ON SET UP TEMPORARY TRAFFIC CONTROL DEVICES AND BARRICADES FOR SURFACING

PHASE II USE TCP(SC-1,2,3,4,5,6,7)-21

SET UP ONE WAY-TRAFFIC CONTROL WITH PILOT CAR AND PERFORM ROADWAY SWEEPING

PRIOR TO SEAL COAT OPERATIONS.

GENERAL NOTES.

SEALCOAT EXISTING PAVEMENT SURFACE AT WIDTH SPECIFIED ON TYPICAL SECTIONS.

REFER TO "PROJECT SUMMARY" SHEET FOR LIMITS OF SEALCOAT PLACEMENT.

SEALCOAT WILL INCLUDE ANY LEFT OR RIGHT TURN LANES, FOR THE LIMITS SHOWN ON TYPICAL

SECTIONS, WHERE APPLICABLE.

THE ENGINEER WILL BE LEFT UNDISTURBED. CONCRETE PAVEMENT AREAS AND OTHER SELECTED AREAS SHOWN ON THE PLANS OR AS DIRECTED BY

CONTROL PLANS. REFER TO STANDARDS AND CONSTRUCTION STANDARD SHEETS AS WELL AS CHANNELIZING DEVICES FOR ONE-WAY TRAFFIC CONTROL OPERATIONS AS SHOWN ON THE TRAFFIC WHERE APPLICABLE, THE CONTRACTOR WILL PLACE ALL TRAFFIC CONTROL SIGNS, BARRICADES, AND

UPON COMPLETION OF ONE LANE, MIRROR SAME WORK TO OTHER LANE.

AT THE END OF EACH DAY, BEFORE OPENING TO TRAFFIC, WORK ZONE SHORT TERM TABS

SHALL BE INSTALLED TO GUIDE TRAFFIC ACCORDING TO TCP(SC-6)-21.

Estimate & Quantity Sheet

соииту Маverick

DISTRICT Laredo

CONTROLLING PROJECT ID 6470-27-001



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	2,061,000		2,061.000	CX	AGGR (TY-PB, GR-3S)(SAC-B)	316-7207	-	
	000.701,6		000.701,6	CX	AGGR (TY-PD, GR-3)(SAC-B)	316-7222	-	
	3,682.000		3,682.000	-17	CLEANING AND SEALING EXISTING JOINTS	T00Z-8Eħ	-	
	J.000.1		1.000	S7	MOBILIZATION	T002-005	-	
	000.9		000.9	OW	BARRICADES, SIGNS AND TRAFFIC HANDLING	205-7001	-	
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	000.488,000		24,309.000	A3	WK ZN PAV MRK SHT TERM (TAB)TY Y-2	7TT.4-Z00	+	
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			2,714.000	-37	REFL PAV MRK TY I (W)8"(SLD) (100MIL)	770L-999	+	
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	000.712,449		000.446,721	37	RE PROFILE PM TY I(Y)6"(SLD)(100MIL)	0277-999	+	
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	000.5		2.000	A3	PAVEMENT SLER (DBL ARROW)	9587-999	-	
	000.280,111		111,082.000	37	PRFB RUMBLE STRIP (BLK)(1')(CENTERLINE)	Z00 <i>L</i> -899	-	
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1. SURFACE TREATMENT WILL EXTEND TO THE LIMITS SHOWN ON THE TYPICAL SECTIOUS EXCEPT FOR ANY CONCRETE SURFACES AND BRIDGES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

SUMMARY OF QUANTITIES

Texas Department of Transportation

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SUMMARY OF ASPHALT AND AGGREGATE ITEMS

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SUMMARY OF QUANTITIES

Texas Department of Transportation

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1. SURFACE TREATMENT WILL EXTEND TO THE LIMITS SHOWN ON THE TYPICAL ESCEDOUS EXCEPT FOR ANY CONCRETE SURFACES AND BRIDGES UNLESS OTHERWISE DIRECTED BY THE ENGINEER,

2. CONTRACTOR AND ENGINEER TO FIELD VERIFY EXISTING PAVEMENT MARKINGS AT CURYEL COCATIONS. ENGINEER SHALL APPROVE INSTALLED AS UNDED IN THE TYPICAL SECTIONS OF THIS DETAIL SHEET.

REFER TO STANDARD PM-(2)-22 FOR INSTALLATION OF RPM's ON CENTER LINE.

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DELVIES FM 2804 RAISED PAVEMENT MARKERS

FIEXAS DEPARTMENT OF TRANSPORTATION 3 2024

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DOCUMENT WAS AUTHORIZED BY THE SEAL APPEARING ON THIS

NA JANOK CENSED 114515 DENNICE L. GARZA

> OIRECTION OF TRAFFIC □ - REFL PAV WRKR CECEND

3. CONTRACTOR AND ENGINEER TO FIELD VERIFY EXISTING PAVEMENT MARKINGS AT CURVE LOCATIONS.

ENGINEER SHALL APPROVE INSTALLATION OF REFL PAV MIRKR TY II-A-A AS NEEDED AT CURVES AND ARE TO BE INSTALLED AS NOTED IN THE TYPICAL SECTION OF THIS DETAIL SHEET.

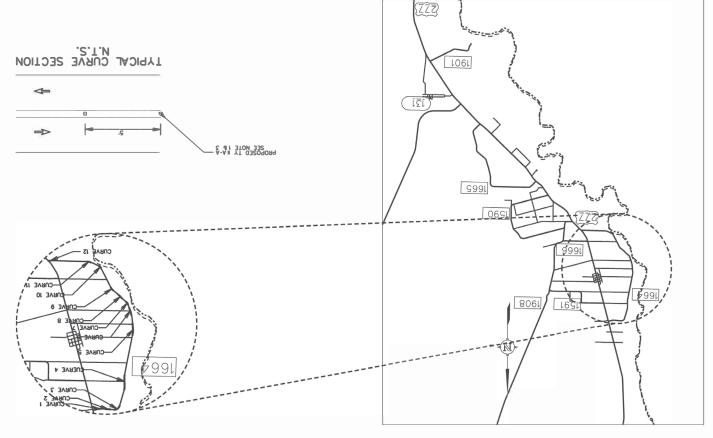
RPM's LINE SHOULD BE 4" FROM EDGE OF THE PAVEMENT MARKING.

REFER TO STANDARD PM-(2)-22 FOR

INSTALLATION OF RPM's ON CENTER LINE.

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	MA MA 077.0+382 927.0+383		835+0.976	232+0.831	835+0.721			232+0.112 8W	E32+0.886 535+0.031		534+0.806	534+0.626
YTQ JATOT	E 15	VRUO	113/	CURV	VE 10	CURVE 10		CURVE 9		CUR	CURVE 7	

122.00		204.00		154.00		207.00		00.092		133.00		Α∃	A-A-II YT ЯУЯМ VA9 JЭЭЯ	⊅ 00∠	278
232+0.461	534+0.346	834+0.226	534+0.031	RM 533+0.287	233+0.142	RM 532+0.992	RM 532+0.797	RM 532+0.562	532+0.317	532+0.177	RM	TINU	DESCRIPTION	DESC NO:	TEM NO.
ΛΕ 9	CURVE 5 CURVE 6		7E ⊄	CUR	/E 3	CURY	VE 2	CUR	CURVE 1		TIMII	DESCENDING	DESC NO	OIV MALI	





DETAILS PM 1664 RAISED PAVEMENT MARKERS

(REXAS DEPARTMENT OF TRANSPORTATION

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ORECTION OF TRAFFIC ■ - REFL PAV WRKR CECEND

- 2. CONTRACTOR AND ENGINEER TO FIELD VERIFY EXISTING PAVEMENT MARKINGS AT CURVE LOCATIONS. ENGINEER SHALL APPROVE INSTALLED AS NOTED IN THE TYPICAL SECTIONS OF THIS DETAIL SHEET.

NOTES:

REFER TO STANDARD PM-(2)-22 FOR INSTALLATION OF RPM's ON CENTER LINE.

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	403.00	125.00		00.881		112.00		Α∃	A-A-II YT MAKR VA9 PEFL PAV MRKR TY II-A-A	1 00∠	279
	ΥΤ <u>ρ</u> ЈΑΤΟΤ −	MA MA 66+0.091 366-0.026		366+0.141	RM 366+0.297	RM 366+0.632	RM 366+0.737	TINU	DESCRIPTION	DESC NO.	TEM NO.
		CORVE 3		CORVE 2		CORVET			1401201003310	014 3334	0.444311

TYPICAL CURVE SECTION N.T.S. \triangleleft A-A II YI BA-A S & I 3TON 332 EAGLE PASS -CURVE 1 [[] -CURVE 2 Z061 706r [LL] 131

6 22 MAVERICK 6470 277 001 US277 ED.RO. STATE COUNTY CONTROL SECTION JOB HIGHWAY NO. ov D.C. | ov D.C. TEXAS SHEET 1 OF 1 31AT2 JTJL :#40

DETAILS FM 1907 RAISED PAVEMENT MARKERS

® TEXAS DEPARTMENT OF TRANSPORTATION \$ 2024

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114515 DENNICE L. GARZA

> OIRECTION OF TRAFFIC ■ BEFL PAV WRKR LEGEND

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ALC IVIOI	ET 3/	เลกว	713/	เลกว	113/	CURI	VE 10	CUR	ΛE 9	ยกว	VE 8	ยกว	211411	MOTEGIO233	014 3330	Old Mari
YTØ JATOT	878+0.693	878+0.628	878+0.408	878+0.348	878+0.318	878+0.253	378+0.229	878+0.029	377+0.952	877+0.756	8M) 377+0.665	RM 377+0.534	TINU	DESCRIPTION	DESC NO:	ITEM NO.
00.888													A3	REFL PAV MRKR TY I-C	2009	279
1,926.00	00.07		00.48		00.07		212.00		208.00		139.00		A3	REFL PAV MRKR TY II-A-A	6009	279

139.00		00.16		102.00		246.00		00.762		00.882		00.28		A∃	A-A-II YT MRKR TY II-A-A	≯00 ∠	7.29
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8NA 377+0.459	82£.0+77£	RM 377+0.146	377+0.061	RM 377+0.041	376+0.945	M9 376+0.890	829.0+97£	376+0.623	376+0.371	375+0.173	374+0.953	374+0.853	RM 374+0.773	TINU	DESCRIPTION	DESC NO:	TIEM NO.
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RAISED PAVEMENT MARKERS (B) TEXAS DEPARTMENT OF TRANSPORTATION (C) 2024

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ON 6/21/2024
DENNICE L. CARZA, P.E. 114212.

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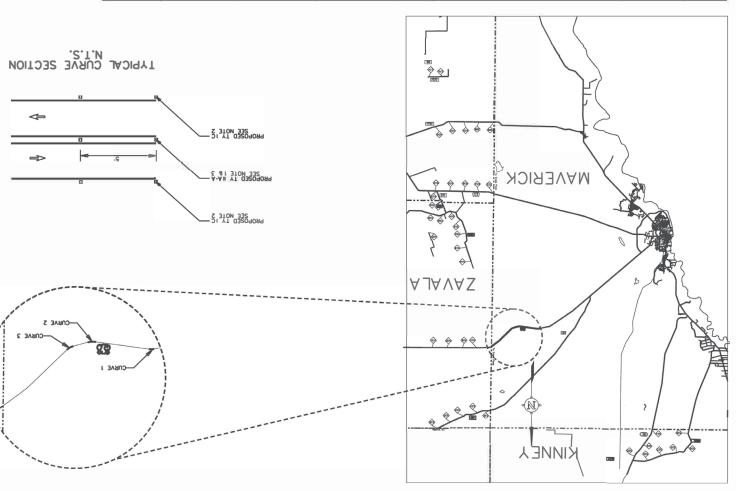


OIRECTION OF TRAFFIC ■ BEFL PAV MRKR TY CECEND

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E 3VRUD		7.E. Z	เลกว	ΛE 7	CURY	TINII	рессырдом	DESC NO	I TEM NO	



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DETAILS US 57

RAISED PAVEMENT MARKERS

TEXAS DEPARTMENT OF TRANSPORTATION

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CONTROL SECTION JOB HIGHWAY NO.



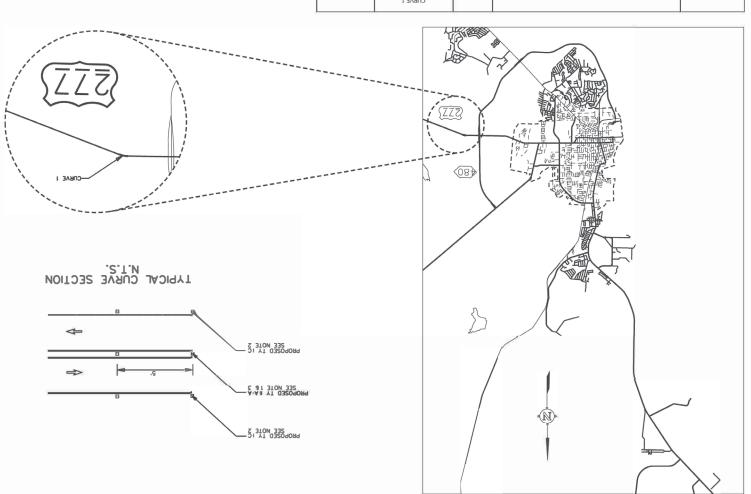
OIRECTION OF TRAFFIC □ - REFL PAV WRKR

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THE SEAL APPEARING ON THIS Absolute BY Abpraight By Authorized By Author

DETAILS US 277

RAISED PAVEMENT MARKERS

(R) TEXAS DEPARTMENT OF TRANSPORTATION

DENNICE L. GARZA

☐ — REFL PAV WRKR

— DIRECTION OF TRAFFIC

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- 3. CONTRACTOR AND ENGINEER TO FIELD VERIFY EXISTING PAVEMENT MARKING AT CURVE LOCATIONS.

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00.676	439.00		212.00		328.00		Α∃	A-A-II YT MRKR TY II-A-A	≯ 00∠	278
00.676	439.00		212.00		328.00		Α∃	REFL PAV MRKR TY I-C	2007	278
УТ Ф ЈАТОТ	RM 622+0.671	RM 623+0.086	RM 623+0.801	RM 624+0.001	624+0.991	RM 625+0.301	TINU	DESCRIBLION	DERC NO:	ITEM NO.
ALC IVIOL	ΛE 3	เลบว	/E 2	CUR	ΛΕΤ	SUR	TIMI	DESCRIPTION	DESC NO	ON MITTI

TYPICAL CURVE SECTION N.T.S.	TIMMIQ ***
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COMPAE 3	A JA VA Z



RAISED PAVEMENT MARKERS

(R) TEXAS DEPARTMENT OF TRANSPORTATION (S) 2024

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OPECTION OF TRAFFIC ■ BELT DAV WRKR

CECENO

or as approved by the Engineer.

progress or a definite need exists.

appropriate traffic control devices to be used.

Design Monual" or engineering judgment.

sign and seal Contractor proposed changes.

responsibility of the Engineer.

devices.

justify the signing.

right-of-way line as possible, or located behind a barrier or guardrail, what be parked away from travellanes. They should be as close to the

13. Inactive equipment and work vehicles, including workers' private vehicles

12. The Engineer has the final decision on the location of all traffic control

If. Traffic control devices should be in place only while work is actually in limits. For mobile operations, CSJ limit signs are not required.

CONTRACTOR and END ROAD WORK signs shall be erected at or near the CSJ erected in advance of the CSJ limits. The BECIN ROAD WORK NEXT X MILES, LATER and the WORK ZONE TRAFFIC FINES DOUBLE sign with ploque shall be On BC(2). The OBEY WARNING SIGNS STATE LAW sign, STAY ALERT TALK OR TEXT

BC sheets are examples. As necessary, the Engineer will determine the most

not shown in this manual shall be shown in the plans or the Engineer shall

necessory worning signs as shown on these sheets, the TCP sheets or as directed by the Engineer. The BECIN ROAD WORK NEXT X MILES sign shall be revised to show appropriate work sone distance.

"A Policy on Geometric Design of Highways and Streets," the TxDOT "Roadway Association of State Highway and Transportation Officials (AASHTO), applicable design criteria contained in manuals such as the American

the approximate location of any device without the approval of the Engineer. control devices as shown in the plans. The Contractor may not move or change

by a licensed professional engineer for approval. The Engineer may develop, 3. The Contractor may propose changes to the TCP that are signed and sealed

shown in the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).

gevices, construction pavement markings, and typical work zone signs.

to show typical examples for placement of temporary traffic control

1. The Borricade and Construction Standard Sheets (BC sheets) are intended

The information contained in these sheets meet or exceed the requirements

BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

"Standard Highway Sign Designs for Texas," latest edition, Sign details 8. All signs shall be constructed in accordance with the details found in the

divided highways where median width will permit and traffic volumes

7. The Engineer may require duplicate warning signs on the median side of

adjacent project is completed first, the Contractor shall erect the redundant and the work areas appear continuous to the motorists. If the

FINES DOUBLE, and other advance warning signs if the signing would be 6. When projects abut, the Engineer(s) may omit the END ROAD WORK, TRAFFIC

5. Geometric design of lane shifts and detours should, when possible, meet the

4. The Contractor is responsible for installing and maintaining the traffic

2. The development and design of the Traffic Control Plan (TCP)is the

Control Devices, CSJ limit signs are required. CSJ limit signs are shown than mobile operations as defined by the Texas Manual on Uniform Traffic 10. Where highway construction or maintenance work is being undertaken, other

9. The temporary traffic control devices shown in the illustrations of the provide a detail to the Contractor before the sign is manufactured.

MORKER SAFETY NOTES:

when flogging is used of night.

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

2. Except in emergency situations, flagger stations shall be illuminated

Troffic Control Devices List" (CWZTCD) describes pre-qualified products 1. Only pre-qualified products shall be used. The "Compliant Work Zone

COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

Assessing sofety Hordwore (MASH). 2. Work sone traffic control devices shall be compliant with the Manual for

DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS)

vog.tobxt.www/\:qtfn THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT

COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST (CWZTCD)

TRAFFIC ENGINEERING STANDARD SHEETS TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD) ROADWAY DESIGN MANUAL - SEE "MANUALS (ONLINE MANUALS)" MATERIAL PRODUCER LIST (MPL)

SHEEL I OF 12

AND REQUIREMENTS CENERAL NOTES

BARRICADE AND CONSTRUCTION

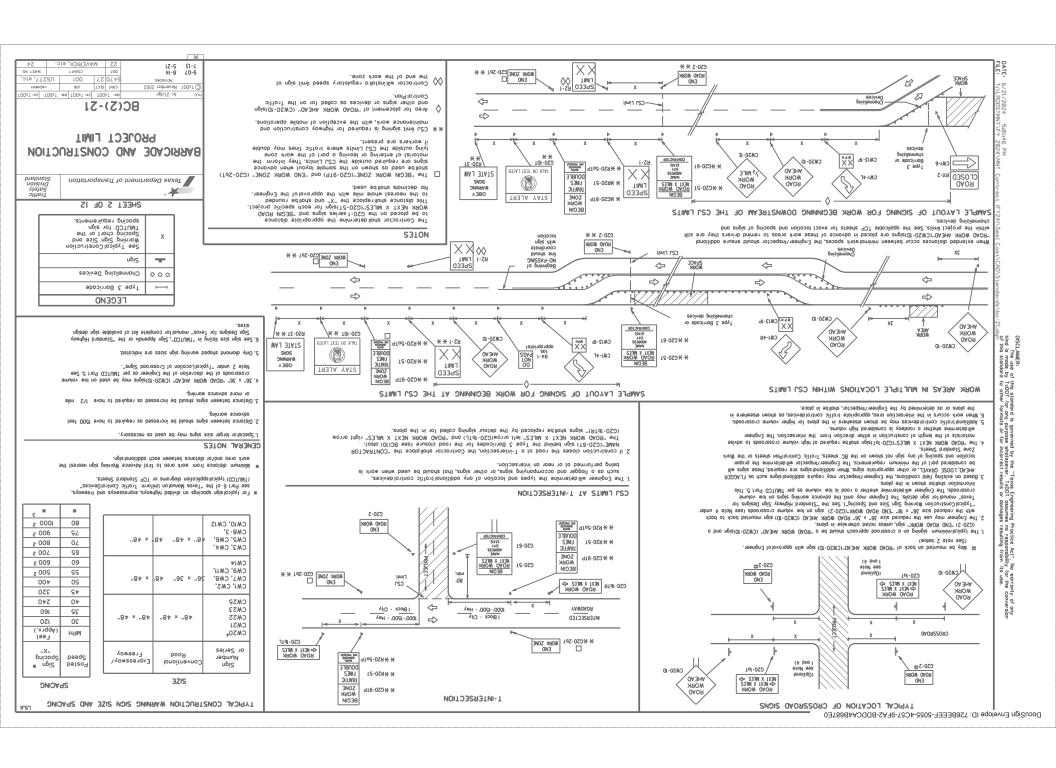
Texas Department of Transportation

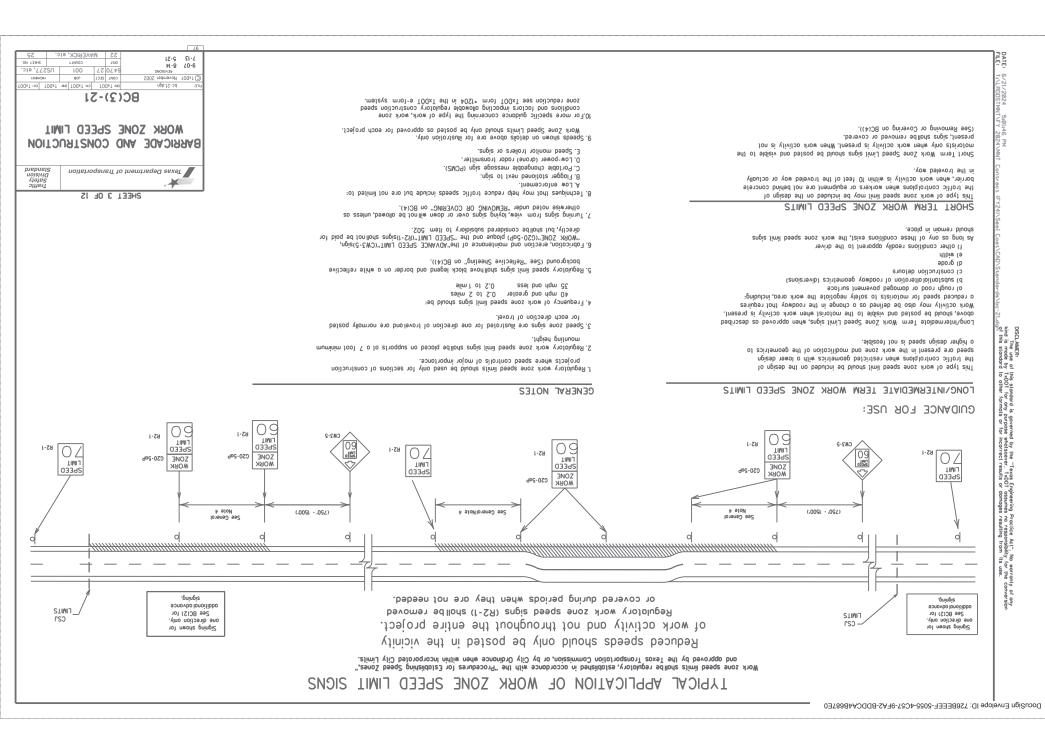
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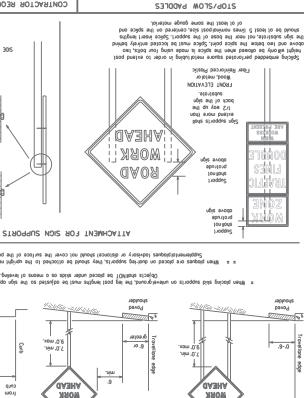
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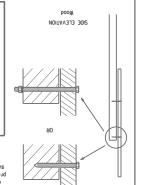




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GAOR





WITHIN THE PROJECT LIMITS

andstrates to other types of procedures for disconning sign manufacturer's recommended or screws. Use TxDOT's or will be by boils and nuts

ony means. Wood loined or spliced by ad 100 llons subis support, Multiple spoil be of toched Focu sidu De dilowed. TOM llode slioM

extended or repoired anbbouge spoil uot be directly to the sign

sign supports

Altachment to wooden supports

"Supaur Jau10 by splicing or

Contractor to ensure proper guidance for the motorists. This will be subsidiary

Any sign or traffic control device that is struck or domoged by the Contractor

Standords, I his work should be paid for under the appropriate pay item for

the roodway condition. For details for covering lorge guide signs see the remove or cover the permanent signs until the permanent sign message motches When permonent regulatory or warning signs conflict with work zone conditions,

il not better route guidance as normally installed on a roadway without

cultural information. Univers proceeding through a work zone need the same,

of interest, and other geographical, recreational, specific service (LOCO), or

and route designations, destinations, air ections, distances, services, points

offention to conditions that are potentially hazardous to traffic operations

CONTRACTOR REQUIREMENTS FOR MAINTAINING PERMANENT SIGNS

Permonent signs are used to give notice of traffic lows or regulations, call

sholl meet the required mounting heights shown on the BC Sheets or the SMD

installed on croshworthy bases as shown on the SMD Standard sheets. The signs Il existing signs ore to be relocated on their original supports, they shall be When existing permonent signs ore moved and relocated due to construction purposes, they shall be visible to motorists at all times.

subis buijsixa buijopoja.

TS-CD stondora.

or nist ner construction equipment shall be replaced as soon as possible by the

should be poid for under the appropriate pay item for relocating existing signs.

neights shown on the BC, or the SMD standard sheets during construction, this work

TLRS standard sheets or the CWZTCD list. The signs shall meet the required mounting

the Controctor shall use crashworthy supports as shown on the BC standard sheets, Il permonent signs are to be removed and relocated using temporary supports

plemental plaques (advisory or distance) should not cover the surface of the parent sign. x x Musen blodnes are placed on dual-leg supports, they should be attached to the upright nearest the travellane.

objects shall be placed under skids as a means of leveling. When plocing skid supports on unlevelground, the leg post lengths must be odjusted so the sign oppears straight and plumb.

.nim '0.04

The Contractor shall replace damaged wood posts. New or damaged wood sign posts shall not be spliced. TOL IGENTIFICATION SUGILDE I INCU°

Identification markings may be shown only on the back of the sign substrate. The maximum height of letters and/or company logos used domoged or morred reflective sheeting os directed by the Engineer/Inspector.

The Controctor is responsible for installing signs on approved supports and replacing signs with damaged or cracked substrates and/or the Engineer con verily the correct procedures are being followed.

egording installations on marking the Contractor shall furnish the Engineer a copy of the manufacturer's installation recommendations so signs. Supports for temporary large roadside signs shall meet the requirements detailed on the Temporary Large Roadside Signs (TLRS) standard sheets. The Controctor shall he sign support in occordance with the manufacturer's recommendations. If there is a question

guide the traveling public safely through the work zone. The Controctor may lumish either the sign designs shown in the plans or in the "Standard Highway Sign Designs (or Texas" (SHSD). The 4. All signs shall be installed in accordance with the plans of as arected by the Engineer. Signs shall be used to regulate, worn, and

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

CENERAL NOTES FOR WORK ZONE SIGNS

color. Flogs shall not be allowed to cover any portion of the sign face. 1. Flogs may be used to draw attention to warning signs. When used, the flog shall be inches square or larger and shall be orange or fluorescent red-orange in LEVES ON SIGNS sjåu anbbor(a bloced on alobea

olong the length of the stude to weigh down the sign support.

8. Sondbogs sholl NOT be placed under the skid and shall not be used to level

bidists on provides 4gar specific stages of the control stages of monutoctive ed-ailth violber boses may be used when shown on the CWRTOD ISI. Sondbogs and dowly be ploced drong or idea over the bose supports of the fundiffic control device on the stage of the support of the properties of the control device of the support of the properties of the support of the s

ot to cas sign support engints.

2. Sondogs should engine a continuous of 50 bs.

2. Sondogs should engine engine and engine eng

Rock, concrete, iron, steel or other solid objects shall not be permitted

Ly Where early associate require (line ase of resignals to breep from furning over, the used.

Of sombogs with 40, cohesionless sand should be used.

S. The sandbogs wilb led shull to keep the sand from spilling and to mointoin or contropes and possible is a condones and should be seen the control seichtl.

STRUCKLE WEIGHTS 7. Signs and anchor stubs shall be removed and holes backfilled upon completion of work.

6. Duct tope or other adhesive moterial shall NOT be affixed to a sign face.

entive sign lace and maintain their oppoque properties under automobile headlights at night, without domaging the sign sheeting. Burtop shalf MOT be used to cover signs. When signs are covered, the material used shall be opaque, such as heavy milblack plastic, or other materials which will cover the

3. Signs installed on wooden skids shall not be turned at 90 degree angles to the roadway. These signs should be removed or completely the sign message is not oppicoble. 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 oppicoching fuciliti.

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M-8 70-9

TxD0T November 2002

CHEET NO.

Safety Safety Division

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BC(4)-51

TEMPORARY SIGN NOTES

SHEET 4 OF 12

BARRICADE AND CONSTRUCTION

Texas Department of Transportation

Four Ferm stotionary or intermediate stationary signs installed on square metal tubing may be turned away from traffic 90 degrees when When sign messages may be confusing or do not apply, the signs shall be removed or completely covered.

SEMONING OR CONERING lirst closs workmonship in accordance with Deparlment Standards and Specifications.

1. Misign letters and numbers shall be clear, and open rounded type uppercase ophobel letters as opproved by the federal Highway Sign Design for Texas" manual Signs, letters and numbers shall be of Administration (FMMA) and as published in the "Standord Highway Sign Design for Texas" manual Signs, letters and numbers shall be of SIGN TELLEKS

L. Majora shallbe retrocalentative and constructed of sheeting meeting the color and retro-reflectivity requirements of DUS-8300 in the way about so color and retro-reflectivity requirements of DUS-8300 and the way of SUII.

2. White sheeting, meeting the requirements of DUS-8300 Type B or Type F, shallbe used for signs with a mile bockground.

3. Orange sheeting, meeting the requirements of DUS-8300 Type B or Type F, shallbe used for rigid signs with orange bockgrounds.

3. Orange sheeting, meeting the requirements of DUS-8300 Type B or Type F, shallbe used for rigid signs with orange bockgrounds.

REFLECTIVE SHEETING

centers. The Engineer may approve other methods of splicing the sign face. screws fuol do not benefrole the loce of the sign panel. The screws shall be placed on both sides of the splice and spaced of 6"

"Wesh" Lype motivation or with the provided sign before a signal provided signal and the provided revel by the provided signal provided signal

upport that is being used. The CWZTCD lists each substrate that can be used on the different types and models of sign supports I. The Controctor shall ensure the sign substrate is installed in accordance with the manufacturer's recommendations for the type of sign

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

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

4. Short-term/Short Durolion signs should be used only during doylight and shoulde removed of the end of the workdoy or roised to appropriate Long-term/Intermediate sign height.

Beautiful Long-term/Intermediate propriate the part of long to the propriate signs of the part of long terms and the part of long terms.

The ground.

J. Long-term/Short Durotion signing.

J. Long-term/Intermediale-term Signs may be used in lieu of Short-term/Short Durotion signing.

2. The bollom of Short-term/Short Durotion signs shall be a minimum of 1 loot obove the povement surface but no more than 2 feet obove The bottom of Long-term/intermedate-term stags shallbe of least 7 leet, but not more than 9 leet, above the poved surface, except as shall also make shall be suffered to shall be suffered to the provided that the stage of the poved surface but no more than 3 leet labs. The batter of the surface but no more than 2 leet labs.

SICH MOUNTING HEICHT

e. Mobile - work that moves continuously or intermittently (stapping for up to approximately 15 minutes.) d. Short, duration - work that occupies a location up to 1 hour.

c. Short-lerm stationary - daytime work that occupies a location for more than I hour in a single daylight period.

D. Intermediate-term stationary - work that occupies a location more from one adylight period up to 2 adys, or nightlime work insting Long-term stationary - work that occupies a location more than 3 days.

regard to crashworthiness and auration of work requirements. Controctor is responsible for ensuring the sign support, sign mounting height and substrate meets manufacturer's recommendations in work pend becrouned the rudineer is responsible for selecting the oppropriate size sign for the type of work being pend performed the

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

DURATION OF WORK (as defined by the "Texas Manualon Uniform Traffic Control Devices" Part 6)

The conflictor and large and specification of the conflictor of th

Wooden sign posts shall be pointed white.
 Borricodes shall NOT be used as sign supports.
 Miscone shall be used as sign supports.

AHEAD MORK **GAOR**

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HEVD MNOW

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առայուռ **GAOR**

INDICAL WHININUM CLEARANCES FOR LONG TERM AND INTERMEDIATE TERM SIGNS

.nim '0.1

HEAD

MORK

GAOR

Bockground - Red egend & Border - White Legend & Border - Block - 54.. -— 5¢.. — ... bZ

SHEETING REQUIREMENTS (WHEN USED AT NICHT)

ACRYLIC NON-REFLECTIVE FILM

TYPE B OR C SHEETING

TYPE B, OR C, SHEETING

TYPE B OR C SHEETING

SIGN FACE MATERIAL

BF ACK

ORANGE

038

COLOR

shall only be as specifically described in Section 62.03

4. Any lights incorporated into the STOP or SLOW poddle foces

3. STOP/SLOW poddles may be offoched to a stoff with a minimun

I STUPYSLUW poddles are the primary method to control traffic

2. STOP/SLOW poddles shall be retroreflectorized when used at night.

by Iloggers. The STOP/SLOW poddle size should be 24" x 24".

Hond Signoling Devices in the TMUTCD.

rubis aut 10 motton aut of 0 to utbuar

ECEND & BORDER BACKGROUND ВАСКСКОПИD

LECEND & BORDER

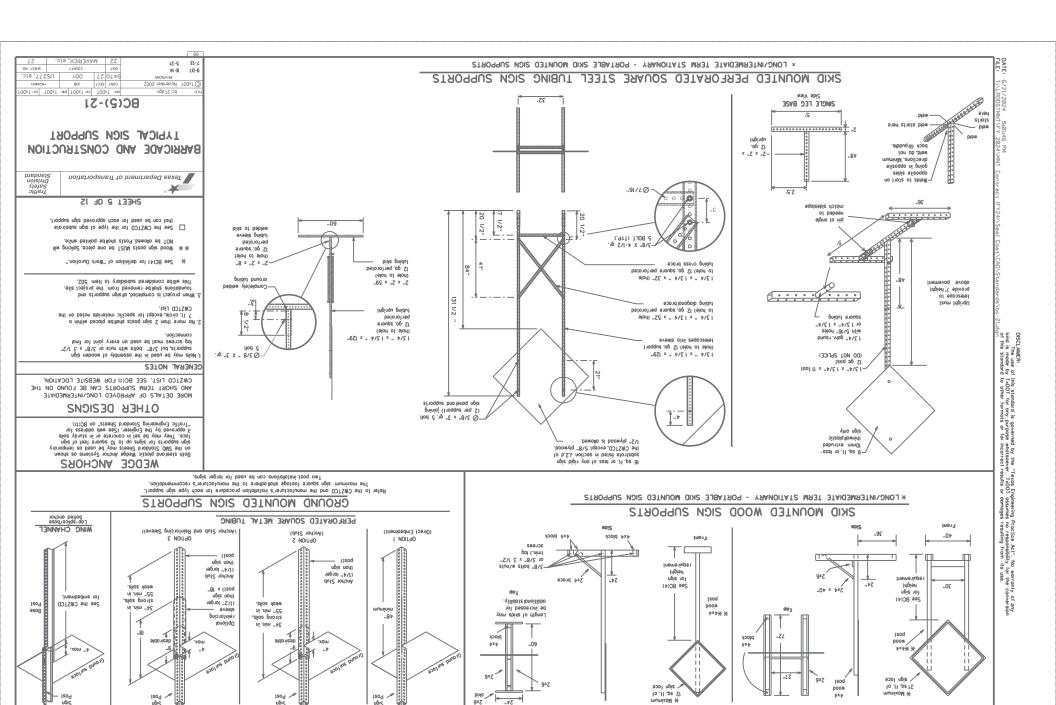
3DVSC

DISCLAIMER:
The use of
kind is made by
of this standard

this standard is governe TxDOT for any purpose to other formats or for

ed by the "Texas Engineering whatsoever. TxDOT assumes incorrect results or damages

g Proclice Act". No war is no responsibility for I is resulting from its us



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

41	11 1 1/3/- 1-1 -1 1/1-4		
Possible Component	. Брозе 2:	stsiJ n	Phose 1: Condition

				YATZ
THOINOT -M9 XX MA XX			MORKERS WORKERS	3SU A3HTO S3TUOЯ
TX3N 3UT XX SUA	DRIVE WITH CARE		SHOULDER END END	REDUCE SPEED XXX FT
MA XX OT MG XX	DRIVE Y J 3-7A S		39A9399 0T 90T2	EXPECT SYAJ30
NEXT FRI-SUN	NOITUAD	US XXX TO FM XXXX	EXPECT OELAYS	WATCH FOR TRUCKS
X-X YAM - M9 XX MA XX	THOIR L ANE TIX 3	XXXXXXX OT XXXXXXX	WATCH FOR TRUCKS	TRUCKS USE US XXX N
MAY XX BEGINS	YAOSIVQA G3392 H9M XX	TZA9 XXX ZU TIX3	JSU 3 XX-I N XX-I OT	NO YATZ XXX ZU HTUOZ
MONDAY	HdW XX 033dS WINIWIM	NEXT X MILES	USE EXIT XX-I HTRON	USE EXIT XXX
-XX ЯЧА XX MA X-M9 X	MUMIXAM 03392 HQM XX	REFORE BEFORE	NSE EXIT	DETOUR NEXT X EXITS
IRT-BUT -MA XX MG X	Ham XX	TA XXXX MT	FORM RICHT	MERGE
* * Advance IsiJ əsifoM	Worning JeiJ	Location List		Action to Take/Effi Lig

21-7 12-9

COOX 1900 November 2002

pc-21.dgn

x x See Application Guidelines Note 6.

SISIT

CHEET NO.

ıramıc Safety Division Mebnetê

100 27 001

DN: 1x001 CK: 1x001 DM: 1x001 CK: 1x00

1038 IM00

BC(9)-51

MEZZYCE ZICH (LCMZ)

PORTABLE CHANGEABLE

SHEEL 6 OF 12

BARRICADE AND CONSTRUCTION

Texas Department of Transportation

SENET **JIAART** JJAM X WIFES CLOSED TH XXXX CFORED TIX3 38 OT XXX SO BUMP RICHT LN TIX3 HKI-20N XXXX HS X MILE CLOSED CLOSED SEMET NEXT TSA9 ROADWORK ROADWORK EXIT XXX SUOISAV 14 XXXX CLOSED CEOSORES X MILE **GAOR** EXIT 3NA.1 SUOT30 HTUOS XX-I ROUGH **MICHT** CEOSORES CEOSED I 4 XXXXX I 4 XXXX CKAVEL LANES LANE LANE NAEVEN 3S007 DAYTIME CENTER TH XXX T3 XXXX ONEN CLOSED JI4AMI JI44ANT LANES LANES CONST RIGHT X RICHT X MERCING XX WILE XXXX ET XXX ET EM XXXX TRAFFIC **SWORNAM** CLOSED CLSD AT YAW-OWI KICH I FM KICHT LN UAUN

XXXX ET

I 4 XXXX

FLAGGER

TH XXX

ROADWORK

Ofher Condition List

SICHAL

* LANES SHIFT in Phose 1 must be used with STAY IN LANE in Phose 2.

APPLICATION GUIDELINES

TUE - FRI

CLOSED

XXX ET

CEOSED

ZHOOLDER

CLOSED

FRONTAGE

CLOSED

XXXXXXX

CLOSED

XXX HS IA

CLOSED

UAUN

X MILE

CLOSED

FREEWAY

Road/Lane/Ramp Closure List

DRIVEWAY

3. A 2nd phase can be selected from the "Action to Take/Effect "YOOG/LORe/Komp Closure List" and the "Uther Condition List". 1. Only for 2 phases are to be used on a PCMS.

2. The 1st phase (or both) should be selected from the

reaccionate in the tirst budge selected. 4. A Location Phase is necessory only if a distance or location On Irovel, Location, General Warning, or Advance Motice

and should be understandable by themselves. 5. If two PCMS ore used in sequence, they must be separated by a minimum of 1000 it. Each PCMS shall be limited to two phases,

days of the week. Advance notification should typically be for of the octual work dote, calendor days should be replaced with 6. For advance notice, when the current date is within seven days

CONCRETE BARRIER OR SHALL HAVE A MINIMUM OF FOUR (4) PCMS SIGNS WITHIN THE R.O.W. SHALL BE BEHIND CUARDRAIL OR no more than one week prior to the work.

SHOULD BE PLACED WITH ONE DRUM AT EACH OF THE FOUR CORNERS OF THE UNIT. OF TRAFFIC, WHEN EXPOSED TO TWO WAY TRAFFIC, THE FOUR DRUMS UPSTREAM SIDE OF THE PCMS, WHEN EXPOSED TO ONE DIRECTION PLASTIC DRUMS PLACED PERPENDICULAR TO TRAFFIC ON THE

SHIFT

TH XXXX

SWORRAM

T ANE

TA XXXX

REPAIRS

QAOR

occurou buose is oseo.

9. Distances or AHEAD can be eliminated from the message if a

4. Highway names and numbers replaced as appropriate. 5. ROAD, HICHWAY and FREEWAY can be interchanged as needed.

3. EAST, WEST, NORTH and SOUTH (or abbreviolions E, W, N and S) can

J. The words RiGHI, LEFT and ALL can be interchanged as appropriate.
2. Roodway designations IH, US, SH, FM and LP can be interchanged as

5. A1, BEFURE and PAST interchanged as needed. 7. FT and Mi, MLE and MLES interchanged as appropriate. or with may be used instead of distances if necessory.

oe interchanged as appropriate,

WORDING ALTERNATIVES

CHANGEABLE MESSAGE SIGNS" obove. L When Full Motrix PQMS signs are used, the character height and legibility/visibility requirements shall be maintained as listed in Note 15 under "POMSTABLE FULL MATRIX PCMS SIGNS

5. When symbol signs are represented graphically on the Full Matrix PCM5, they shall only supplement the use of the static sign represented, and shall not substitute sholl maintain the legibility/visibility requirement listed above. 2. When symbol signs, such as the "Flogger Symbol"(CM20-7) are represented grophically on the Full Motrix PCMS sign and, with the approval of the Engineer, it

4. A full matrix PCMS may be used to simulate a flashing arrow board provided it meets the visionity, flash rate and dimming requirements on BCL(1), for the

INTOR

		TMIAM	endoneta plu
TNOW	10M 11TW	13V31 9W1	Lower Level
TWVT T3W	THE POVEMENT	TM CFOZED	pasol) and
W (91U07)	Mestbound	LFT LN	9nbl tiel
W (01.02)	Test	137	1191
TIMIJ TW	#eight Limit	TOL	noitanut
038	Wednesdoy	STI	8] 1]
MSIAW	Morning	IMEO	Information
VEH, VEHS	Vehicles (s)	HB, HRS	HOUr (S)
13V31 H3V	Upper Level	AMH	Highway
NIW 3WIT	Time Winutes	1.00	Vehicle
TUES	Time Minutes	HOA	High-Occupancy
	Trovelers Tresdox		Hozardous Material
TRVLRS		HAZ DRIVING	Hozordous Driving
TRAF	Traffic	183	Fridoy
TO DWINTH	nwofnwod oT	LWY BLKD	Freeway Blocked
ZAUHT	Thursday	FRWY, FWY	Freewoy
TEMP	Temporary	FOC AHD	Fog Ahead
PHONE	Telephone	XXXX FT	XXXX Feet
NNS	Sunday	EXPNY	Expressway
IS	51reet	N7 dx3	Express Lane
04S	Speed	TM3	Entrance, Enter
(route) S	bnuodrituos	EMER VEH	Emergency Vehicle
S	qtnos	ENER	Ешекдепсу
dl 7S	Slippery	(route) E	Dnuodtab3
SHLDR	Shoul der	3	†8D3
SERV RD	Service Rood	DONT	TON OC
TAS	Soturday	3TR RUOT30	Detour Route
RT LN	Right Lane	XIMC	CROSSING
GΒ	Rood	0	Ahead
PK I NG	Parking	CONST AHD	Construction
(route) N	Northbound	RTD	Center
N	North	TMAO	tonnol
NARW	Normal	BRDC	Br i dge
NON	Monday	BLVD	Boulevard
NNE	Winor	31A T238	Best Route
Hdfl	Miles Per Hour	AVE	Avenue
1/4	Niles	T.JA	Alternate
	LAM voiol	CCS R0	Access Rood A
MOITAIV 3988A	32A9H9 90 090W	NOITAIV 3988A	32A9H9 90 090W

		ь.	7-11 111	
TNOW	toM IIIW	L	LWR LEVEL	Lower Level
WET PVMT	Wet Povement	L	LN CLOSED	Lane Closed
(route)	Druod129W	L	NJ TRJ	9nol tiel
A	Tesm	L	147	119]
TIMIJ TW	Weight Limit	L	JCT	noitonut
MED.	Wednesday	L	211	8] 1]
MARN	Quinno	L	IMEO	Informotion
VEH, VEHS	Vehicles (s)	Ŀ	HB, HRS	Hour (S)
UPR LEVEL	Upper Level	П	AMH	Highway.
TIME WIN	Time Minutes	Ŀ		Vehicle
TUES	Luesddy	Ŀ	HOV	High-Occupancy
TRVLRS	Travelers	Ŀ		Hozordous Moterial
TRAF	Traffic	ŀ	HAZ DRIVING	Hozordous Driving
NTWNO OT	nwotnwod ot	ŀ	FR1	Fridoy
THURS TO DRIVE	Thursday	ŀ	EMA BEKD	Freeway Blocked Freeway Blocked
qW3T	Thiredox	Ŀ	FRWY, FWY	
PHONE	161eppcore	Ŀ	FOC AHD	Fog Ahead
NOS	Zopung	Ŀ	XXXX FT	XXXX Feet
TS	51reet	Ŀ	EXPWY	Expresswoy
GPD	Speed	Ŀ	EXP LN	Express Lane
(route)	punoquinos	Ŀ	TM3	Entrance, Enter
S (401.101)	20nuquinos	Ŀ	ENER VEH	Emergency Vehicle
al 7S	Slippery	Ŀ	ENER .	Ешегделсу
SHEDR	Shoulder	Ŀ	(route)	bnuod†203
SERV RD	Service Rood	Ŀ	3	†8D]
TA2	Soturdoy Socuise Bood	Ŀ	DONT	TOM OU
RT LN	Right Lone	Ŀ	318 RU0130	Detour Route
NI TO	Rood	L	XIMC	CROSSING
PK ING	Porking	ı	CONST AHD	Construction Aneod
(Ptuon)	Northbound	r	STR	Center
N	North	r	CANT	tonno
MRON	Normal	r	BRDC	Bridge
NON	Monday	Г	BLVD	Bouleverd
ANN	Minor	Г	319 1238	Best Route
HdN	Miles Per Hour	Г	AVE	9un9vA
IN	Miles	Г	T.JA	Alternote
	LAM 10 DI	ı	CCS RD	Access Rood A
AIV3988A	WORD OR PHRASE		MOITAIV 3988A	32A9H9 90 090W

designotion * IH-number, US-number, SH-number, FM-number

DSCLAMER: He use of this stondard is governed by the "Texas Engineering Proctice Act". No warronly of any taid is made by 1:001 for any purpose shotspeer. 1:001 desumes no responsibility for the conversion that is made by 1:001 for any purpose shotspeer. 1:1001 desumes no responsibility for the conversion of this stondard to other formation of the increase it results or demonster resulting from its use.

SOLIDITATITION

pars is appropriate.

should be legible from at least 600 feet of night and 800 feet in doylight. Truck mounted units must have a character height of 10 inches and must be legible from at least 400 feet. 15. PCMS character height should be at least 18 inches for trailer mounted ore occeptable for use on a PCMS. Both words in a phrase must be displayed lagether. Words or phrases not on this list should not be the foce of the sign. M. The following toble lists obbreviated words and two word phroses that 13. Do not display messages that scroll harizantally or vertically across on o PCMS. Drivers do not understand the message.

It, Do not use the word "Danger" in message.

12. Do not display the message "LANES SHIFT LEFT" or "LANES SHIFT RICHT" 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. If the word "thomes" in message.

opprevioled, unless shown in the TMUTCU.

ayong pe aleady burn or continuous while displayed.

9. Do not "flosh" messages or words included in a message. The message oble for displaying a two-phase message on a PCMS. Each phase may be displayed for either four seconds each or for three seconds each.

8. The Engineer/Inspector may select one of two options which are avail-

is to begin on Friday evening and/or continue into Monday morning. start on Salurday morning and end by Sunday evening at midnight

not dierm motorists and will only be used to alert workers that the PCMS has malfunctioned. A pottern such as a series of horizontal solid

1x9) and bno shim (C.) 2/1 (209) to mori aldiery ad bluode yant astron

17. If disobled, the PCMS should defoult to on illegible display that will 16. Each line of text should be centered on the message board rother than tell or right justified.

Actual days and hours of work should be displayed on the PCMS if work 7. The message term "WEEKEND" should be used only if the work is to

o minimum 7 feet obove the roodway, where possible 6. When in use, the bottom of a stationary PCMS message panel should be

olong with the number when referring to a roodway.

5. Almoys use the route or interstate designation (IH, US, SH, FM)

4. Use the word "EXII" to refer to on exit romp on a freeway; i.e.,
"EXIT CLOSED." Do not use the term "RAMP."

message should convey a single (hought, and must be understood by

ollernote. Three-phase messages are not allowed. Each phase of the

o. Messages should consist of a single phase, of two phases that eight characters per word), not including simple words such as "IO,"

BEHIND BARRIER OR CUARDRAIL WITH SICN PANEL TURNED PARALLEL TO TRAFFIC

WHEN NOT IN USE, REMOVE THE PCMS FROM THE RICHT-OF-WAY OR PLACE THE PCMS

2. Messages on PCMS should contain no more than 8 words tobout four to changeable message signs (PCMJ).

1. The Engineer/Inspector shall approve all messages used on portable

PORTABLE CHANGEABLE MESSAGE SIGNS

saupui aupnbs no rellective surface area of at least woney o evon reunce toube to Marning reflector may be round

drum adjacent to the travelway. obbroved substitute mounted on o Type C Worning Light or



- at the mostmone specific from the process around the control of the continuous and device specific requirements. 8. The worning reflector should be mounted on the side of the handle necrest approaching traffic. When used near two-way traffic, both sides of the warning reflector shall be reflectorized.
- DWS 8300-1ype B or 1ype C. 6. The side of the warning reflector focing opproaching traffic shall have sheeting meeting the color and retroreflectivity requirements for
- offoches to the drum. 5. Square substrates must have a minimum of 30 square inches of reflectorized sheeting, they do not have to be reflectorized where it
 - 3. The worning reflector shall have a minimum reflective surlace area of one-side) of 30 square inches.

 A Round reflectors shallbe fully reflectorised, including the area where alloched to the drum.
- 2. The sorming reflector shall be yellow in color and shall be manufactured using a sign substrate approved for use with plastic drums listed
- L A worning reflector or approved substitute may be mounted on a plastic drum as a substitute for a type C, steady burn worning light of the discretion of the Contractor unless otherwise noted in the plans.

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

- 7. The maximum specing for worning lights on drums should be identical to the channelizing device specing.
- . Worning lights shall not be installed on a drum that has a sign, chevron or vertical panel.
- changes, on lone closures, and on other similar conditions. L. Type A. Type C. and Type D. narming lights shall be installed at locations as detailed on other sheets in the plans.
- r Type c and b steady burn marking lights are intended to be used in a series to delinedte the edge of the travellane on detours, on lane order to identify the desired vehicle poth. The role of floshing for each light shall be 65 floshes per minute, plus or minus 10 floshes. Libe successive librating of the sequential acrining lights ploced on channels ing devices to form a merging toper may be used for delineating of the laper of sequential topics of sequential acrining lights ploced on channels ing devices to form a merging toper in the laper in the merging toper in the
 - . Type A rondom Hoshing worning lights are not intended for delineation and shall be used in a series. Type A floshing worning lights are intended to warn drivers that they are approaching or are in a potentially hozordous area.

WARNING LICHTS MOUNTED ON PLASTIC DRUMS

- 8. The location of worning lights and worning reflectors on drums shall be as shown elsewhere in the plans. When used to delineate curves, type-C and type D Steady Burn Lights should only be placed on the outside of the curve, not the inside. Certify the warning lights meet the reducements of the lotest 116 Purchose Specifications for floshing and Steady. Burn Warning Lights b. When required by the Engineer, the Contractor shall turnish a copy of the warning lights certification, the warning light manulacturer will devices. Their use shall be as indicoled on this sheel and/or other sheels of the plans by the designation "S8". So, The Engineer/Inspector or the plans shall specify the location and type of norming lights to be installed on the traffic control devices. So, The Engineer/Inspector or the plans shall specify the location and type of norming lights to be installed on the traffic control devices.
- 4. Type-C and Type D 360 degree Steady Burn Lights are intended to be used in a series for delineation to supplement other traffic control oreo. Their use shoulbe os indicoled on this sheel and/or other sheets of the plans by the designation "FL", the Type A Warning Lights shall not be used with signs manufactured with Type B or C preeting the requirements of Departmental Malerial Specification 0MS-8300. . Type A Low Intensity Flashing Worning Lights are commonly used with drums. They are intended to warn of ar mark a potentially hazardous
 - lights shall NOT be installed on borricodes. Worning lights shall meet the requirements of the TMUTCD.

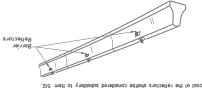
WARNING LIGHTS

BARRIER REFLECTORS FOR CONCRETE TRAFFIC BARRIER AND ATTENUATORS

- 11. Single slope borriers shall be delineated as shown on the above detail.
- Of Missing or domoged Borrier Reflectors shall be replaced as directed .ecommendotions.
- 9. Altochment of Borrier Reflectors to CTB shall be per manufacturer's shall NOT be used as CTB delineation.
- 5. Pavement markets of temporary liexible-reliective roddwdy market tabs 7. Maximum spocing of Borrier Reflectors is forly (40) feel. rpajuawaiddns buiag auliabpa auj
 - 6. Borrier Reflector units shall be yellow or white in color to motch
- reflectors will be required on top of the CTB. 5. When CTB separates traffic traveling in the same direction, no borrier
- side of the borrier shall have one yellow reflective face, as shown in mounted on each section of CTB. The reflector unit on top shall have two yellow reflective faces (Bi-Directional) while the reflectors on each
- the CBS shall be located directly below. The reflector mounted on top of the detail boves.

 4. Where CBS separates theoremy troffic, three borrier reflectors shall be a finite to the separate and the separate species the species are species.
- CTB. This will allow for attachment of a borrier grapple without domoging the reflector. The Borrier Reflector mounted on the side of In alternate mounting location is unitormly spaced at one end or each shall be mounted in approximately the midsection of each section of CTB. 3. Where (rollic is on one side of the CTB, two (2) Borrier Rellectors

CONCRETE TRAFFIC BARRIER (CTB)



2. Color of Borrier Reflectors shall be as specified in the TMUTCU. The Reflectors can be found at the Material Producer List web address shown on BC(1). refrectivity requirements of DMS-6600, A list of prequalitied barrier J. Borrier Rellectors shall be pre-qualified, and conform to the color and

DELINEATION OF END TREATMENTS ecommendations. as per manufacturer's (AIV) MO & U 992

realments and manufacturers.

to the CWZTCD List for opproved end

standards as defined in the Manual for

ayou weet the appropriate crashworthy

End treotments used on CTB's in work zones

IN MORK ZONES

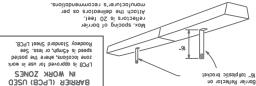
CIB'S USED

END TREATMENTS FOR

ASSESSING SOLELY HOLOWORE (MASH), KETER

3 Borrier Reflectors

LOW PROFILE CONCRETE BARRIER (LPCB)



LOW PROFILE CONCRETE

CHEET NO. 100 SOOS nadmavoN TOOxT 1038 1M00 ж: Тх001 ск: Тх001 рж: Тх001 ск: Тх00

BC(1)-51

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

Texas Department of Transportation ıramıc Safety Division Mebnetê

SHEET 7 OF 12

TRAFFIC BARRIER OR CUARDRAIL.

RICHT-OF-WAY OR PLACE THE ARROW BOARD BEHIND CONCRETE

THE ARROW BOARD FROM THE

WHEN NOT IN USE, REMOVE

FLASHING ARROW BOARDS

9lim (Gl	96 × 81⁄r	0							
9lim ₽\δ	ι3	30 × 60	8							
NISIBILITY VISIBILITY VISTANCE	MINIMUM NUMBER	3ZIS WINIWIN	34YT							
K L M J M J J M J J M J J M J J M J J M J										

orea is spread down the roadway and the work crew is an extended distance from the TMA.

without adversely affecting the work performance. In coson of MA should not be required is when a work

30 to 100 feet in advance of the area of crew exposure

Seler to the CWZTCD for the requirements of Level 2 or

must meet the requirements outlined in the Monuol for

Truck-mounted oftenuotors (TMA) used on TxDOT facilities

5. A TMA should be used onytime that it can be positioned

I. TMAs are required on freeways unless otherwise noted

3. Refer to the CWZTCD for a list of approved TMAs.

Assessing Sofely Hordwore (MASH).

TRUCK-MOUNTED ATTENUATORS

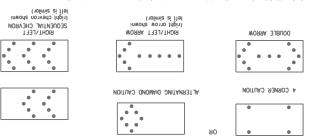
outomotic dimming devices. uliw beginbe edillore Floshing Arrow Boords NOITN3TTA

- 14. Minimum mounting height of trailer mounted Arrow Boords should be 7 feet from roodway flosh role and dimming requirements on this sheet for the same size arrow.
- 12. A Floatning Arrow Board SHALL NOT 8E USED to tolerolly shill troffic.

 13. A full motrix PCMS may be used to simulate a Floatning Arrow Board provided it meets visibility.
 - disploy may be used during doylight operations.

 It, The Floshing Arrow Board shall be mounted on a vehicle, trailer or other suitable support.
 - The sequential arrow display is NOT ALLOWED.
 The llashing arrow display is the TXOOT standard: however, the sequential chevron
- intervols of 25 percent for each sequential phase of the flashing chevron.
- To The Floating Acros Broad radiable coposite of minimum 50 eccent demands from collaboral undured to minimum 50. The Indiana from 50 laboral minimum of the floating solution 50 from 50 from
 - The straight line coution display is NOT ALLOWED.
 - 5. The "CAUTION" display consists of four corner lamps floshing simultaneously, or the Alternating Diamond.

 Diamond Coulton made or shape in PLO 1 ALLOWED.



- er une programa whom good anomalo ee dole to display the rollowing symbols:
- or work on Shoulders unless the "CWALTHO" deploy tess elected.

 The Engineer/inspector shouldness disperopriate agging, boricodes ond/or other troffic
 control devices foll broaded by eused in controlled might be followed expended:

 A The Engine Across Should have developed to the controlled of the c 2. Floshing Arrow Boords should not be used on two-way roddways, detours, diversions
- L. The Floahing krow Boord should be used for all one closures on multi-lane roadways, or slow moving maintenance or construction activities on the travellanes.
- devices placed perpendicular to traffic on the upstream side of traffic. Arrow Boards may be located behind channelizing devices in place for a shoulder taper or merging toper, otherwise they shall be delineated with four (4) channelizing

Adhesives may be used to secure base of drums to pavement. 6. Bollost shall not be placed on top of drums. a nazara when struck by a venicie.

holes in the bottoms so that water will not collect and treeze becoming 5. When used in regions susceptible to freezing, drums shall have drainage drum is struck by a vehicle.

would become hozordous to motorists, pedestrians, or workers when the 4. The bollost shall not be heavy objects, water, or any material that

3. Recycled fruck lire sidewalls may be used for ballost on drums approved for this type of ballost on the CWZTCD list. o solid rubber bose.

Built-in bollost can be constructed of an integral crumb rubber base or 2. Boses with built-in bollost shall weigh between 40 lbs. and 50 lbs.

surface may not exceed 12 inches. of sondbogs will be ollowed, however height of sandbogs above povement bose, or other bollosting devices as approved by the Engineer. Stacking to three sandbags separate from the base, sand in a sand-filled plastic 35 lbs (minimum) and 50 lbs (moximum). The bollost may be sand in one This bose, when filled with the bollost moterial, should weigh between Londollosted bases shall be large enough to hold up to 50 lbs. of sand.

retrorettectivity other than that loss due to abrasion of the sheeting 2. The sheeting shall be suitable for use on and shall adhere to the drum surface south that, upon vehicular impost, the sheeting shall remain outlined in the cocking, or loss of a cothered in photostophy of the shall best that the cocking or the shall be the the cocking of the photostophy.

"suoid aut ui ayeerud ayon pe anbbiled nuleas or yetwise abecilied I. The stripes used on drams shall be constructed at sheeting meeting the color and retrordisets/by requirements of Departmental Notes - Specification for Soc in Fore in the color and stripes of the color fore in the color of the color of

RETROREFLECTIVE SHEETING

10.Drum and base shall be marked with manufacturer's name and model number. 9. Drum body shall have a maximum unballosted weight of 11 lbs.

uidu-geuzirk boikerukieue (HDFL) or oruer obbroked moreriar 8. Plastic drums shall be constructed of ultra-violet stabilized, orange, to be held down while separating the drum body from the base. inches, and a minimum of two footholds of sufficient size to allow base 7. Boses shall have a maximum width of 36 inches, a maximum height of 4

ui sauzui 7 paazxa jou iipus sadijis juazolop omi kuo uaamjag azods 4 inches nor greater than 8 inches in width. Any non-reflectorized orange and white retrorellective circumferential stripes not less than

6. The exterior of the drum body shall have a minimum of four alternating compilioni sign. allow attachment of a warning light, warning reflector unit or approved

shall have a minimum of two widely spaced 9/16 inch diameter holes to shall be designed to drain water and not collect debris. The handle 5. The top of the drum shall have a built-in handle for easy pickup and o moximum of 42 inches.

orum unit toody installed on base) shall be a minimum of 36 inches and of the 36 inch height when viewed from any direction. The height of

single piece plastic drums as channelization devices or sign supports. 3. Plastic drums shall be constructed of lightweight flexible, and deformable materials. The Contractor shall NOT use metal drums or

handling and/or air lurbulence created by passing vehicles. of 20 MPH or greater but prevents accidental separation due to normal needs not full out and a state much process of a series continuous sandas

2. The body and base shall lock together in such a manner that the body I. Plastic drums shall be a two-piece design: the "body" of the drum shall be the bottom. Fre-qualitied plassic drums shall meet the Tollowing requirements:

CENERAL DESIGN REQUIREMENTS

ment device must be an approved device. drums identified for replacement by the Engineer/Inspector. The replaceoffect their oppearance or serviceobility.

6. The Contractor shall have a maximum of 24 hours to replace any plastic

shall be free from objectionable marks or defects that would adversely 5. Drums, bases, and related materials shall exhibit good workmanship and 20217821

(TMUTCD) and the "Compliant Work Zone Traffic Control Devices List" 4. Drums and all related items shall compty with the requirements of the current version of the "Texas Manualon Uniform Traffic Control Devices" approved by the Engineer.

sections by vertical panels, two-piece cones or one-piece cones as coopulating device but may be replaced in tapers, transitions and tangent 3. For short term stolionary work sones on freewoys, drums ore the preferred coues in proper position and incution.

if personnel ore present on the project of all times to maintain the oue-biece coues way be used with the approval of the Engineer but only sections by vertical panels, or 42" two-piece cones, in tangent sections, naed as the primary channelizing device but may be replaced in langual 2. For intermediate term stationary work zones on freeways, drums should be the primary channelizing device.

I. For long term stationary work zones on freeways, drums shall be used as

CENERAL NOTES

a smooth continuous rail suitable tor nand training with no roils as shown on BC(10) provided that the top rail provides 6. Detectoble pedestrion borricodes should use 8" nominal borricode

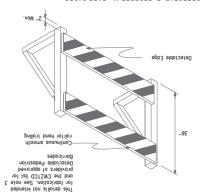
5. Worning lights shall not be attached to detectable pedestrion

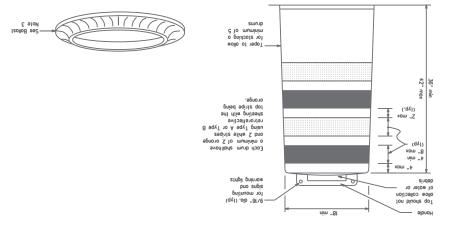
CAAGA: ond should not be used as a control for pedestrion detectoble, do not comply with the design standords in the "Americans with Disobilities Act Accessibility Cuidelines (ADAAC)" and should not be used as control lines pedestria 4. Tope, rope, or plastic chain strung between devices are not

obove, longitudinal channelizing devices, some concrete borviers, and wood or chain link fencing with a continuous detectable edging can satisfactoriny delineate a pedestrian both. 3. Detectoble pedestrion borricodes similar to the one pictured

ploced ocross the full width of the closed sidewolk instead of a Type 3 Barricade. closed sidewalk, a Detectable Pedestrian Barricade shall be and see years and visual discontines normany use in the feotures present in the existing pedestrion focility. Refer to WSGBS-2) for Pedestrion Control requirements for Sidewolk Diversions, Sidewolk Detoures. The professions sittle professional disposities on comply use the When existing pedestrion locilities ore disrupted, closed, or relocated in a TTC sone, the temporary locilities shall be detectable and include accessibility features consistent with

DETECTABLE PEDESTRIAN BARRICADES







BC(8)-51

CHANNELIZING DEVICES BARRICADE AND CONSTRUCTION

Texas Department of Transportation Safety Safety Division

SHEEL 8 OF 12

opprovolot the Engineer. are 24 inches wide may be mounted on plastic drums, with 8. R9-9, R9-10, R9-11 and R9-11a Sidewalk Closed signs which

auonia de usea at each iocation called for in the pians. locations, they may be placed on every drum or spaced not more in inimum of three (3) more than on every third drum. A minimum of three loss spould by the place of the control of the con asaut ur pash uaum stadot buitius uo to stadot buibtau uo 7. Chevrons may be placed on drums on the outside of curves,

odequately torqued, Boits should not extend more than 1/2. 6. Mounting boils and nuts shall be fully engaged and

and nut, two washers, and one locking washer for each 5. Signs shall be installed using a 1/2 inch ball (nominal)

series signs discussed in note 8 below. opproved by the Engineer, Sign dimensions shall not exceed B inches in width or 24 inches in height, except for the R9 e. Uther sign messages ttext or symbolics may be used as

candi balavo'ti babhatrii ant Diogonal stripes on Vertical Panels shall slope down toward speeling meeting the requirements of UMS-8300 Type A or Type B. 3. Vertical Panels shall be manufactured with orange and white

specified in the plons. Sheeting meeting the color and retrorellectivity requirements of DMS-8300, "Sign Face Material," unless otherwise shall be manufactured with Type B or Type C Orange, 7. Chevrons and other work zone signs with an orange background

> "(1) I 7M() But up pater satorisons 1. Signs used on plostic drums shall be manufoctured using

ON PLASTIC DRUMS SIGNS, CHEVRONS, AND VERTICAL PANELS MOUNTED

> bioaric grums substrates shall NOT be used on Plywood, Aluminum or Metal sign

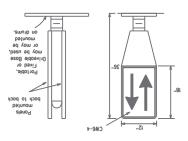
> > by Engineer Re series or other signs os approved Divider, Driveway sign D70a, Keep Right Chevron CW1-8, Upposing Traffic Lane noisnamiú ngiz mu



18" x 24" Sign

SOJOMOL UMOD BUIDOIS slonogoio Aliw Jnuon Ver Licol Ponel 15.. × 54..

OPPOSING TRAFFIC LANE DIVIDERS (OTLD)



the requirements of DMS-8300. unless noted otherwise. The legend shall meet to Departmental Material Specification DMS-8300, be retrorellective Type B or Type C conferming reflective legend, Sheeting for the ULLU shall 4. The OTLD shall be orange with a black non-

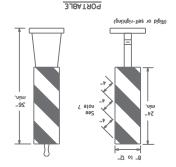
the OTLO's should not exceed 100 foot spocing. feel, 42" cones or VPs ploced between 5. Spocing between the OTLO shall not exceed 500

2. The ULL may be used in combination with 42"

conseq pl a vehicle impact or wind gust. once is secribed to the povement with on traffic on either side of the divider. The to notice and area indicate the direction of centerlines. The upword and downward arrows operation, UTLU's are used on temporary normal one-way roadway section to two-way D 1JANUO O1 DAUDISAD SADINAD UDITORUIRO 1. Opposing Traffic Lane Dividers (OTLD) are

Unamavom asiminim of Jrigiam raddus vo avizanto

VERTICAL PANELS (VPS)



DISCLAMER:
The use of kind is made by of this standard

this standard is governed by the "Texas Engineering Prostice Act". No Tx00T for any purpose wholsoever. Tx00T assumes no responsibility. In to other formats or for incorrect results or damages resulting from its

p sucues syon pe need. panel is 36 inches or greater, a panel stripe of 7. Where the height of reflective material on the vertical UNIS-GOUD, UNIESS noted otherwise. Sheeting for the VP's shallbe retroreflective Type A or Type B conforming to Departmental Moterial Specification
 Type B conforming to Departmental Moterial System pliont Work Zone Traffic ControlDevices List"

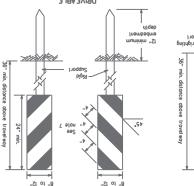
speed roodways, may have more than S70 square inches of retracellective area facing traffic.

5. Sell righting supports are available with portable base.

4. VP's used on expressways and freeways or other high ore to be reflective orange and reflective white and should always slope downward toward the travellane. of cuts adjacent to two-way two lane roadways. Stripes 3. VP's should be mounted back to back it used at the edge erio-dob ioi

Monual for additional requirements on the use VP's doyline and nightlime delineation is required. The Engineer/Inspector shall refer to the Roadway Design Officer areas such as lone transitions where positive They may be used of the edge of shoulder drop-offs and

2. VP's may be used in daytime or nighttime situations. I. Verlicol Ponels (VP's) ore normally used to channelize traffic or divide opposing lanes of traffic.



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

of the unit shall not be less than 32 inches in height. systems must have a continuous detectable bottom for users of long canes and the top If used to channelize pedestrians, longitudinal channelizing devices or water ballasted

- as per manufacturer recommendations or flared to a point autside the clear zone.
- ubon oreces. When used on other sool user operations of the loper solution exect, the letter solution seed in the loper length about the loper length about the loper length is solutions. Oncl user operations conditions of the loper length in the loper length is solution of the loper length in the loper length is solution of the loper length in the loper length is solution of the loper length in the loper length is solution of the loper length in the loper length
- specific to the device, and used only when shown on the CWZICD list.

 4. Waler bollosted systems used as barriers should not be used for a merging taper except in low speed tless than 4.5 MPH) 3. Woler bollosted systems used as borriers shall be placed in accordance to application and installation requirements Woter bollosted systems used to channelse vehiculor troit fic shall be supplemented with retroeflective delineation.
 Woter bollosted systems used to channelse vehiculor troit fic shall be supplemented with powerings.
 I work to provide the provider shall be cheered in order to provide the provider shall be used to be used t
- cogway speed and barrier application. Woler bollosted systems used as borriers shall not be used solely to channelize road users, but also to protect the
 mork space per the oppropriate Monual for Assessing Solety Hordmore (MASH) crostmorthiness requirements based on
 roadmory speed and borrier condication.

WATER BALLASTED SYSTEMS USED AS BARRERS

near the top of the LCD along the full length of the device. specing meeting the requrements for borricode rolls as shown on burilly, Proce reflective sheeting 6. LCDs used as barricades placed perpendicular to traffic should have at least one row of reflective

- ou RC(1) when placed roughly parallel to the travellanes. 5. LCDs shall be supplemented with retroreflective delineation as required for temporary barriers
- 4. LCDs should not be used to provide positive protection for obstacles, pedestrians or workers. TISH COLLY WAR Shown on the CWZ LOD bezu

copport can be used)

DUIVEGDIE BOSE, OF FIEXIDIE

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"BI Julia

Fixed Bose w/ Approved Adhesive

- 2. LCDs may be used instead of a line of cones or drums. 3. LCDs shall be placed in accordance to application and installation requirements specific to the device, and
- 1. LCDs are croshworthy, lightweight, deformable devices that are highly visible, have good larget value and con to connected logether. They are not designed to contain or redirect a vehicle on impact.

CONCILIDINAL CHANNELIZING DEVICES (LCD)



12-51 21.7 CHEET NO. 100 SOOS nadmavoN TOOxT 1038 IN00 ж: Тх001 ск: Тх001 рм: Тх001 ск: Тх00

BC(6)-51

CHANNELIZING DEVICES BARRICADE AND CONSTRUCTION

Texas Department of Transportation ramic Safety Division

SHEET 9 OF 12

MINIMUM DESIGNABLE TAPER LENGTHS CHANNELIZING DEVICES AND SUCCESTED MAXIMUM SPACING OF

L-Length of Toper (FT.) W-Width of Offset (FT.)
S-Posted Speed (MPH) x x toper lengths have been counded off

.091	.08	.096	.088	.008		08
.091	.97	.006	.978	.094		94
140.	٠٥٤	.0+8	.022	.002		04
130.	.99	.087	.912	.099		99
120.	.09	720	.099	.009		09
.011	.99	.099	.909	.099	SM-7	99
100	.09	.009	.099	.009		09
٠06	.G†	.0†9	.96₺	·097		94
.08	٠0٠	320.	.967	.92	09	01⁄2
٠٥٧	.92	542.	225.	202.	-NSM -1	GΣ
.09	.02	180	.991	120.	25	30
o nO JnagnoT	o nO Toper	12:	11.	.01 Jesi10		
Suggested Maximum Spacing of Channelizing Devices		muminiiiii Desiroble Toper Lenglhs x x			Formula	bested beed2

CHEARONS

biostic atums but not to replace plastic atums. self-righting chevrons may be used to supplement transitions on treeways and divided nignways, 6. For Long Term Stationary use on tapers or

requirements of UMS-8300. Deportmental Material Specification DMS-8300, unless noted otherwise. The legend shall meet the live legend. Sheeling for the chevron shall be retrorellective Type B or Aype C configral 5. Chevrons shall be orange with a black nonreflec-

tor of least 500 leet. 4. To be effective, the chevron should be visible

peau s)ı sə)ouiwija

hos three in view, until the chonge in olignment skowio isuotow aut tout uons ag pinous buisade and of right angles to approaching traffic. of on intersection, they shall be in line with side of a shorp curve or lurn, or on the for side 3. Chevrons, when used, shall be erected on the out-

norizontal diignment of the roddwdy. vehicle operators with regard to changes in change of alignment with the direction of travel and provide additional emphasis and guidance for

2. Chevrons are intended to give notice of a shorp minimum size of 12 by 18 inches. I. The chevron shall be a vertical rectangle with a

all application and removal procedures of fixed bases. becurifed on final pavement surfaces, the Engineer/inspector shall approve surface discoloration or surface integrity. Driveable bases shall not be detrimental effects to the final povement surfaces, including povement 7. The installation and removal of channelizing devices shall not couse

permeen rue aguesives, the fixed mount bases and the povement surface. 6. Povement surfoces shall be prepored in a manner that ensures proper banding sol Ut 10 muminim o ripie lioris sesod eldotroq

the Engineer/Inspector. The Contractor shall be required to maintain proper domoged, nonrellective, toded, or broken devices and bases as required by 4. The Controctor shall maintain devices in a clean condition and replace

"Compliant Work Lone Traffic Control Devices List" (CWLICD). where in the plons. These devices shall conform to the TMUTCD and the OLLICOLL (O MOINTOIN, LOCOLIONS OF THESE DEVICES STORIO & OELDRED EISEor vehicle related wind gusts making alignment of the channelizing devices

3. Channelising devices on self-righting supports should be used in work zone pe abecilied in the General Motes or other plan sheets.

speed roodways. The Engineer/Inspector shall ensure that spacing and placement is uniform and in accordance with the "Texas Manualon Uniform in close proximity to traffic and are suitable for use on high or low

CENERAL NOTES

DRIVE ABLE (Rigid or self-righting) FIXED Self-righting Sur 10ce pavoriddy /# esog pexil JL-dΛ WP-1R

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recommendations. Adhesives shall be prepared and applied according to the manufacturer's

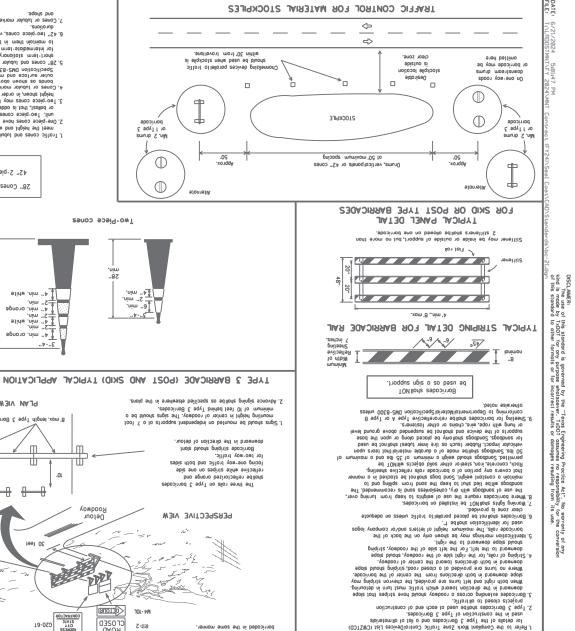
5. Portable bases shall be tabricated from virgin and/or recycled rubber. The

device spacing and dignment.

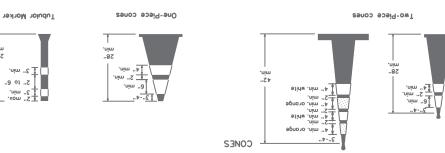
areas where channelizing devices are frequently impacted by errant vehicles

portable base. The requirement for self-righting channelizing devices must 2. Channelizing devices shown on this sheet may have a driveable, fixed or Traffic Control Devices" (TMUTCD).

1. Work Zone channelizing devices illustrated on this sheet may be installed







PLAN VIEW

8' mox, length Type 3 Borricodes

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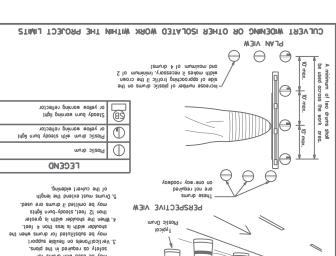
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Z-118

адиоць Комибіц рарілір

Eoch roodway of a

durations.



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way be used with drums for 2. Plastic construction fencing may be omitted. cobopiety is provided, drums 1. Where positive redirectional

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TYPE 3 BARRICADES

Specification Item 662.

distance is restricted by roadway geometrics.

device inspections as required by Form 599.

morkings within the work limits.

the requirements of DMS-8240.

biocement and oe replaced at the expense of the Contractor as per 4. Markings failing to meet this criteria within the lirst 30 days after

distance of 300 feet during normal daylight hours and 160 feet when illuminated by automobile low-beam headlights at night, unless sight

the frequency and reporting requirements of work zone traffic control 2. Work zone povement morkings shall be inspected in occordance with

L' The Contractor will be responsible for maintaining work sone pavement

2. Non-removable pretabricated povement markings (foil back) shall meet

PREFABRICATED PAVEMENT MARKINGS

MOTERIOL Specification DWS-4200 or DWS-4200.

with item 662, Work 20ne Povement Morkings. 7. All work zone povement morkings shall be installed in accordance

'(Nat S)7M 1994S uppd puppub)S 94) up umous

KAISED PAVEMENT MARKERS

Removable prefabricated pavement markings shall meet the requirements

I. Roised povement markers are to be placed according to the patterns on BC(12).

PASS WITH CARE signs of the beginning of sections where possing

is opened to troffic, DO NOT PASS signs shall be erected to mark 6. When standard povement markings are not in place and the roadway

morkings shall conform with the TMUTCD, the plans and details as

5. When short lerm morkings are required on the plans, short lerm

4. Povement morkings shall be installed in accordance with the TMUTCD

and in bruot ad your allotted printing themseld to broad abit to be to the total and t

Texas Manual on Uniform Traffic Control Devices" (TMUTCD).

specifications and special provisions, on all roadways open to traffic

2. Color, patterns and dimensions shall be in conformance with the

within the CSJ limits unless otherwise stated in the plans.

existing povement morkings, in occordonce with the standard

J. The Controctor shall be responsible for maintaining work zone and

the beginning of the sections where possing is prohibited and

the requirements of Item 672, "RAISED PAYEMENT MARKERS" and Departmental 2. All roised povement morkers used for work zone morkings shall meet

MAINTAINING WORK ZONE PAVEMENT MARKINGS

3. The markings should provide a visible reference for a minimum

CENERAL

WORK ZONE PAVEMENT MARKINGS

opproved by TxDOT Specification Item 677 for "Eliminating Existing so as not to leave a discernable marking. This shall be by any method 3. Povement morkings shall be removed to the fullest extent possible, in lieu of markings to outline the detour route.

norkings for periods less than two weeks when approved by the Engineer

10.Block-out marking tope may be used to cover conflicting existing

8. Removal of raised povement morkers shall be as directed by the 7. Over-pointing of the morkings SHALL NOT BE permitted.

6. Blost cleaning may be used but will not be required unless specifically

5. Subject to the approval of the Engineer, any method that proves to be

cooling portions of the roodway as described in Item 677.

Povement Morkings and Morkers".

4. The removal of povement markings may require resurfacing or seal

MARKINGS AND MARKERS," unless otherwise stated in the plans.

9. Removal of existing povement markings and markers will be poid for death, in occordance with flem 677, "ELMMATING EXISTING PAVEMENT

Z. The above shall not apply to detours in place for less than three days, where flaggers and/or sufficient channelizing devices are used

or direct a motorist toward or into the closed portion of the roadway L Pavement markings that are no longer applicable, could create confusion

shall be removed or obliterated before the roadway is opened to traffic.

REMOVAL OF PAVEMENT MARKINGS

ZIDE AIEM FROMT VIEW TOP VIEW

BARRICADE AND CONSTRUCTION

100 27 001

DN: 1x001 CK: 1x001 DM: 1x001 CK: 1x00

TO32 TMOD

BC(11)-51

PAVEMENT MARKINGS

CHEET NO.

2428-SMO

1428-SM0

0%28-8M0

0219-SMO

0019-SWC

00£#-SMC

DMS-4200

1-03

12-6 40-6 86-8

31xDOT February 1998

Texas Department of Transportation ramic Safety Division

SHEET II OF 12

WHITE - (one silver reflective surface with white body). YELLOW - (two amber reflective surfaces with yellow body). Cuidemorks shall be designated as:

butyl rubber pod for all surfaces, or thermoplastic for concrete

B. Select live (5) tobs and perform the following test. Affix live

normally required, however at the option of the Engineer, either "A" cogneer or designated representative, samping and testing is not

2470-CMU 10 Stuamanupar ant 199m libus

L Temporary flexible-reflective roadway marker tabs used as guidemarks

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

list of prequalitied reflective roised povement markers, ROADWAY WARKER TABS EMPORARY FLEXIBLE, REFLECTIVE PAVEMENT MARKINGS TEMPORARY REMOVABLE, PREFABRICATED PERMANENT PREFABRICATED PAVEMENT MARKINGS BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS SOXY AND ADHESIVES TRAFFIC BUTTONS PAVEMENT MARKERS (REFLECTORIZED)

povement markings can be found at the Material Producer List web address shown on $\mathrm{BC}(1)$.

non-rellective traffic bullons, roadway marker tabs and other

DEPARTMENTAL MATERIAL SPECIFICATIONS

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3. Adhesive for guidemorks shall be bifuminous malerial hal applied or project shall be of the same manufacturer.

product list, and meet the requirements of DMS-4200.

2. All lemporory construction roised povement morkers provided on a

RAISED PAVEMENT MARKERS USED AS GUIDEMARKS

I. Roised povement morkers used as guidemarks shall be from the approved

Standard Sheet 1 CPT / -1) Tor tab procement on searcoat work. 4. See Standard Sheet WZ(STPM) for tob placement on new povements. See

2. Small design variances may be noted between too manufacturers.

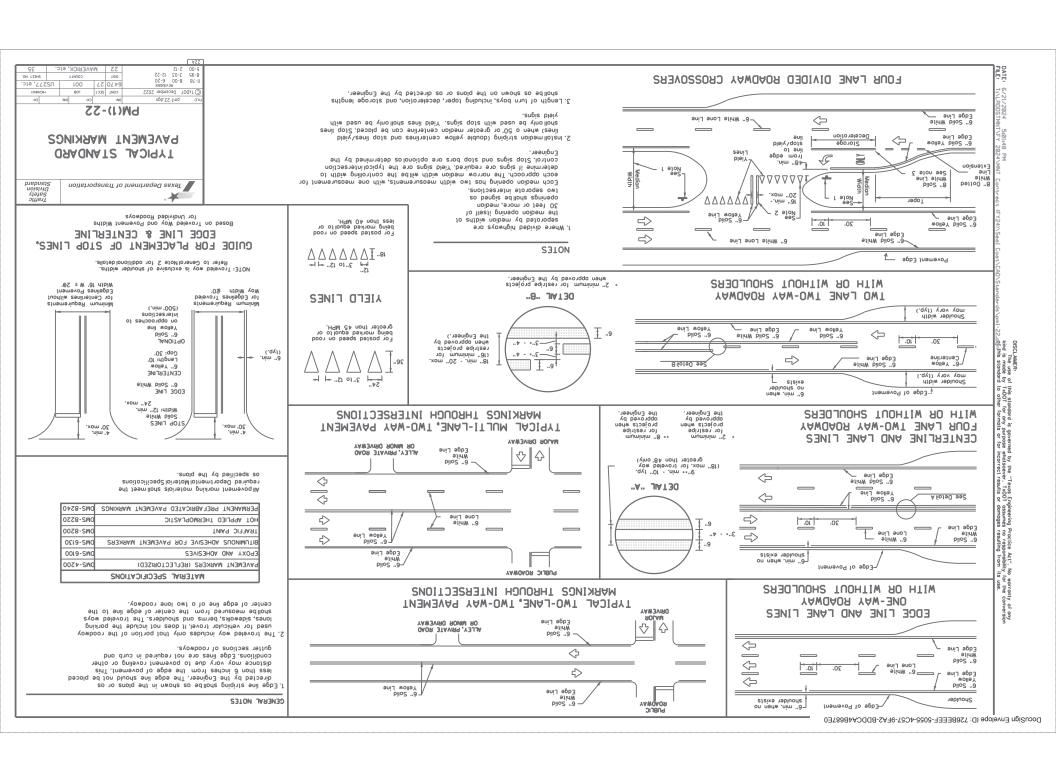
De lost or displaced as a result of this test. nore than one (1) out of the five (5) reflective surfaces shall of 30 to 40 miles per nour, four (4) times in each airection, No un over the morkers with the front and rear lives at a speed atroignt line, using a medium size possenger venicle or pickup, (5) tobs of 24 inch intervals on an asphaltic povement in

and submit to the Construction Division, Malerials and Pavement Section to determine specification compliance. A. Select five (5) or more tobs of rondom from each lot or shipment

or "b" below may be imposed to assure quality before piacement on the 2. Tobs detailed on this sheet ore to be inspected and accepted by the

"" (non) 225 bno "4/1 s nanolly more than Peight of sheeting pod avisanbe

> Roodway Marker Tabs Temporory Flexible-Reflective



OR 6" LANE LINE

2/5....7/5..

"r_-•"8r

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5 10 2.. -

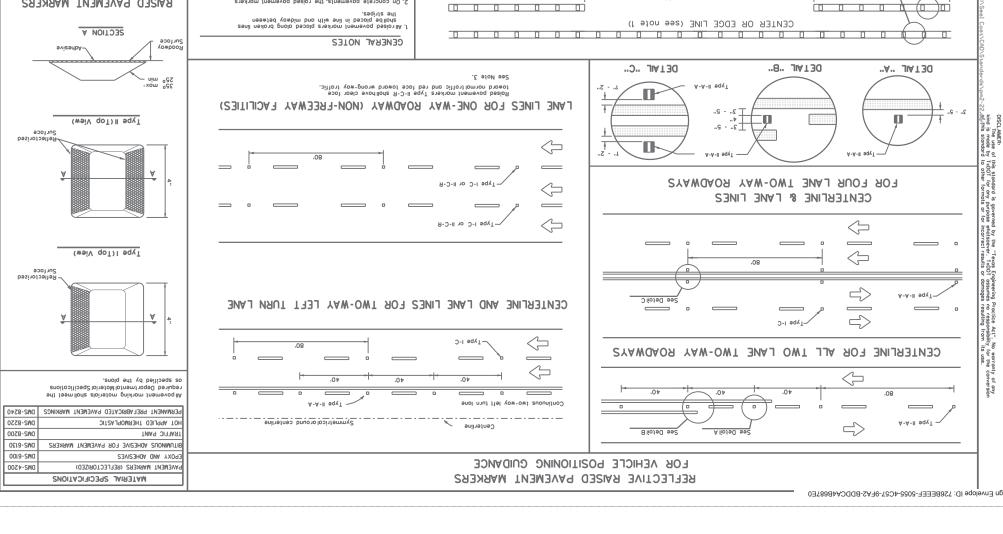
USING REFLECTIVE PROFILE PAVEMENT MARKINGS

JIAT30 NR3TTA9

20.

REFLECTORIZED PROFILE

6" EDGE LINE, 6" CENTERLINE



2. Profile markings shall not be placed on roadways with a posted speed limit of 45 MPH or less.

1. Edge lines should typically be 6" wide ond the moterials shall be specified is the moterials shall be specified

A quick field check for the thickness of bose line and profile marking is

approximately equal to a stack of 5 quarters. Quarters to a maximum height of 7 quarters.

BROKEN LANE LINE

rubien ni lim 002 of 005. 'supid aut ui

NOTES

TxDOT December 2022 T038 TM00 PM(2)-22

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CHEET NO.

MARKINGS				
SOFILE	JOBIZED BE	REFLECT		
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Traffic Safety Noisivi brabnate	uo	tment of Transportati	Texas Depart

itisiT ista2 bisiviQ sbnst2	Texas Department of Transportation

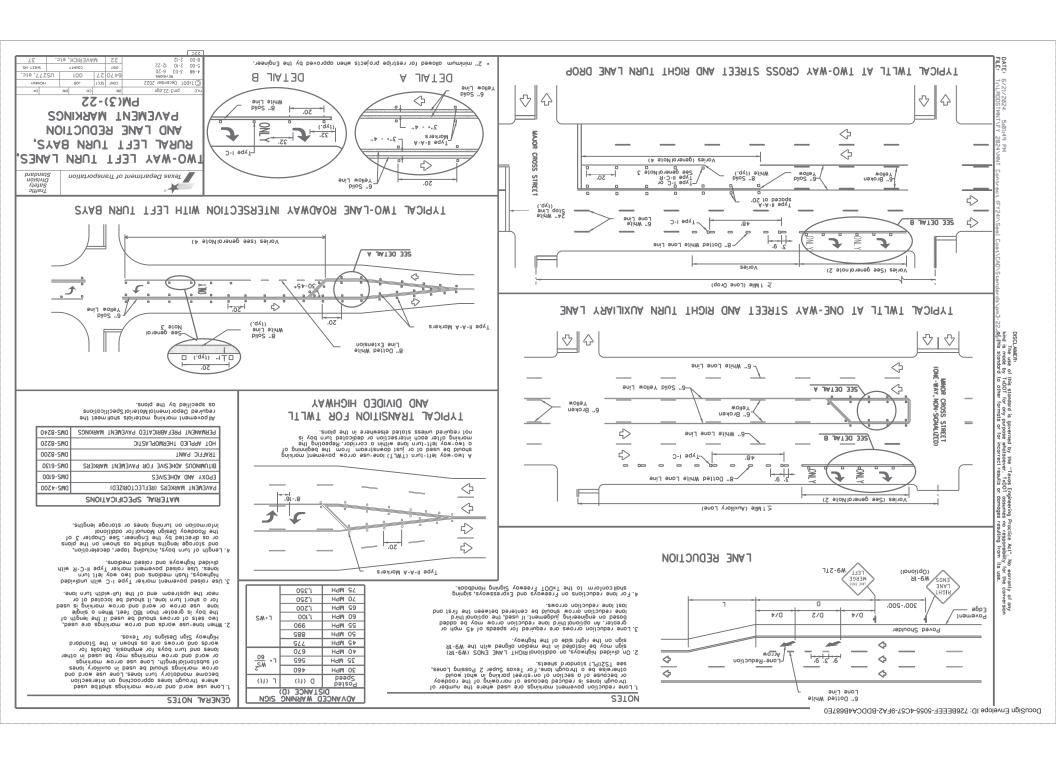


MARKERS	TN3M3VA9	G3SIA Я

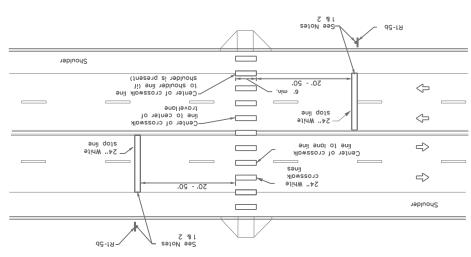
2. On concrete povements, the roised povement morkers

appoint be pieced to one side of the longituding

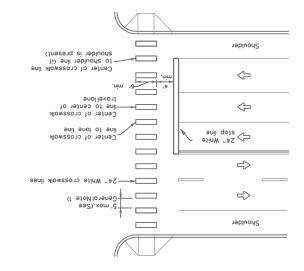
Use roised povement morker Type I-C with undivided roodwys, Iush medions, and two way left furn lones.
 Use roised povement morker Type II-C-R with divided highways and roised medions.



LONGITUDINAL CROSSWALK UNSIGNALIZED MIDBLOCK HIGH-VISIBILITY



AT CONTROLLED APPROACH HICH-VISIBILITY LONGITUDINAL CROSSWALK



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PM(4)-22A

CHEET NO.

PAVEMENT MARKINGS **CROSSWALK**

Traffic Safety Division Standard Texas Department of Transportation

> hybrid beacons. mid block crosswalks controlled by traffic signals or pedestrian 2. Use stop bors with STOP HERE ON RED (R10-6 or R10-60) signs of

nusidualized midblock cross walks. 1. Use stop bors with Stop Here For Pedestrions (R1-5b) signs of

NOTES:

os sbecitied by the plons. required Departmental Material Specifications All povement morking materials shall meet the

0428-8M0	PERMANENT PREFABRICATED PAVEMENT MARKINGS
DMS-8220	HOT APPLIED THERMOPLASTIC
DMS-8200	TRAFFIC PAINT
0213-2MQ	BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS
0019-SM0	EPOXY AND ADHESIVES
DMS-⊄200	PAVEMENT MARKERS (REFLECTORIZED)
	MATERIAL SPECIFICATIONS

7. Final placement of Stop Bor and Crosswalk shall be approved by the Engineer in the field.

be used. All crosswalk designs and dimension shall comply with the "Texas Manual on Uniform Traffic Control Devices." 6. The High-Visibility Longitudinal Crosswalk is the preferred crosswalk potterns os crosswalk pottern or state Alphanys. Other crosswalk potterns os shown in the "Texas Manual on Union Traditic Control Devices" may

5. Each crosswalk shall be a minimum of 6' wide.

co (ne lone lines.

4. At skewed crosswalks, the crosswalk lines are to remain parallel

mointoined in their proper location across the travel portion of lines should be mode in the median so that the crosswalk lines are 3. For divided roodways, adjustments in spacing of the crosswalk

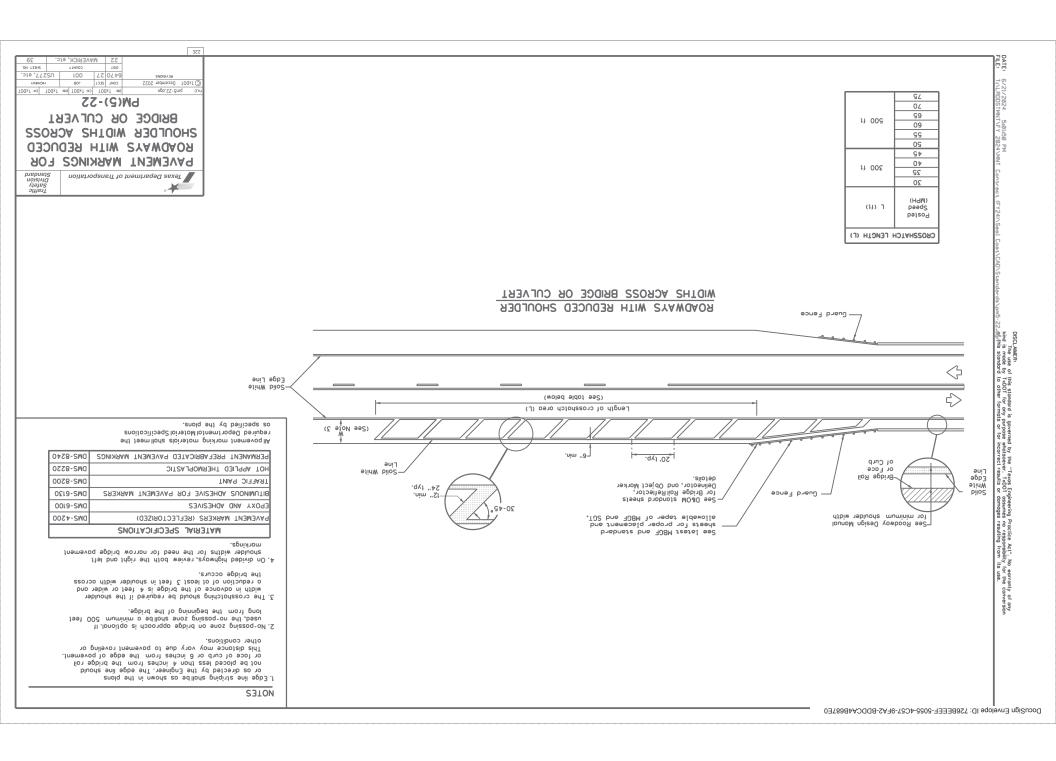
the lost crosswolk line folls into this distance it must be 2. A minimum 6" clear distance shall be provided to the curb face. If

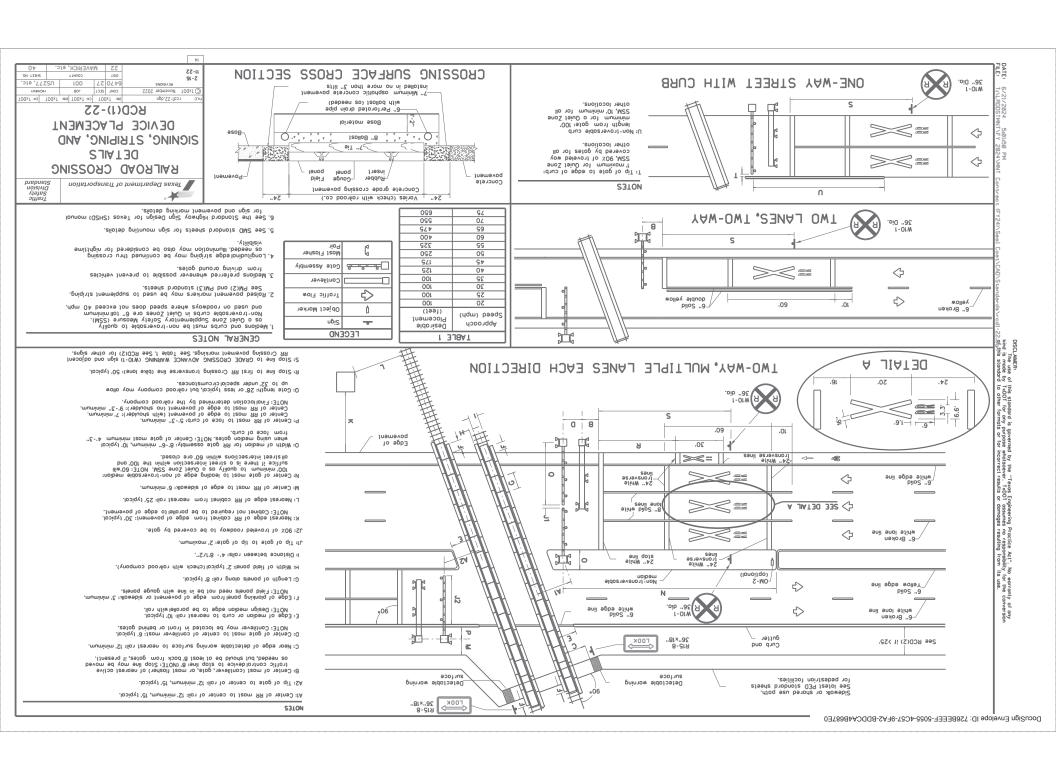
path of vehicles. Center the crosswalk lines on travellanes, lane lines, and shoulder lines (if present). 1. Longitudinal crosswalk lines should not be placed in the wheel

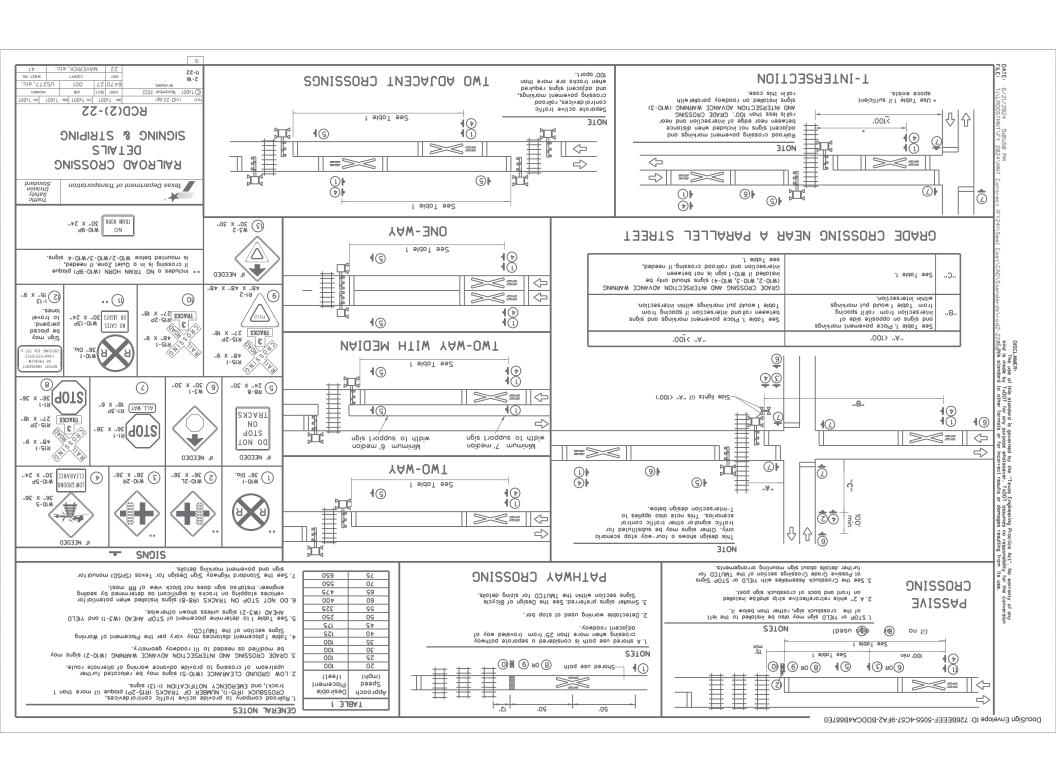
CENERAL NOTES

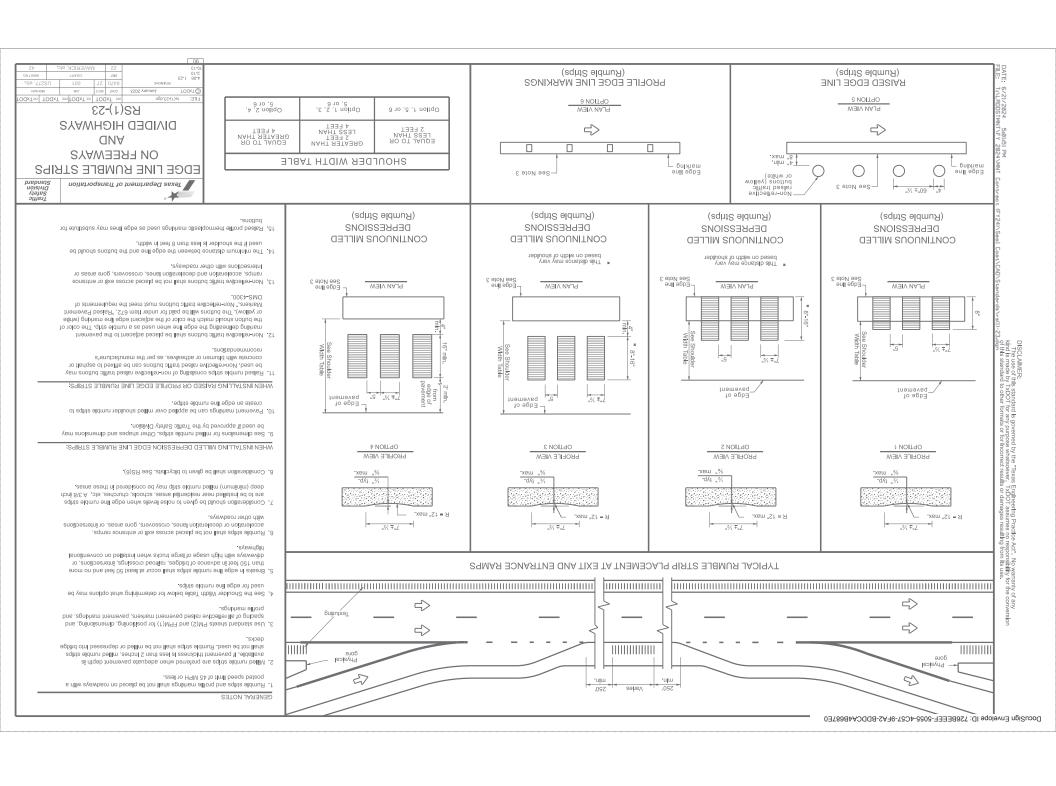
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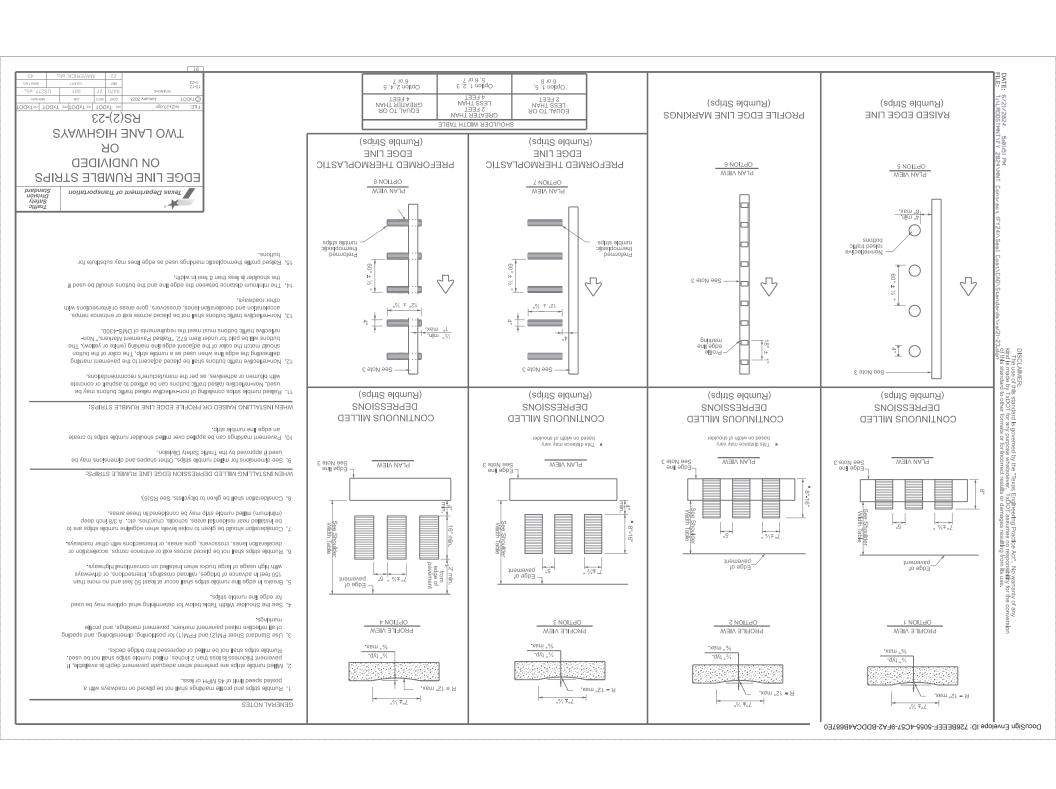
DSCLAMER: the set of this standard is governed by the "Texas Engineering Practice Act". No warronly of any kind is made by TaOTI for any purpose analystener. TaOTI assumes no responsibility for the conversion and is placed to label dramatics or for becorest; results or disorger resulting it from its use.

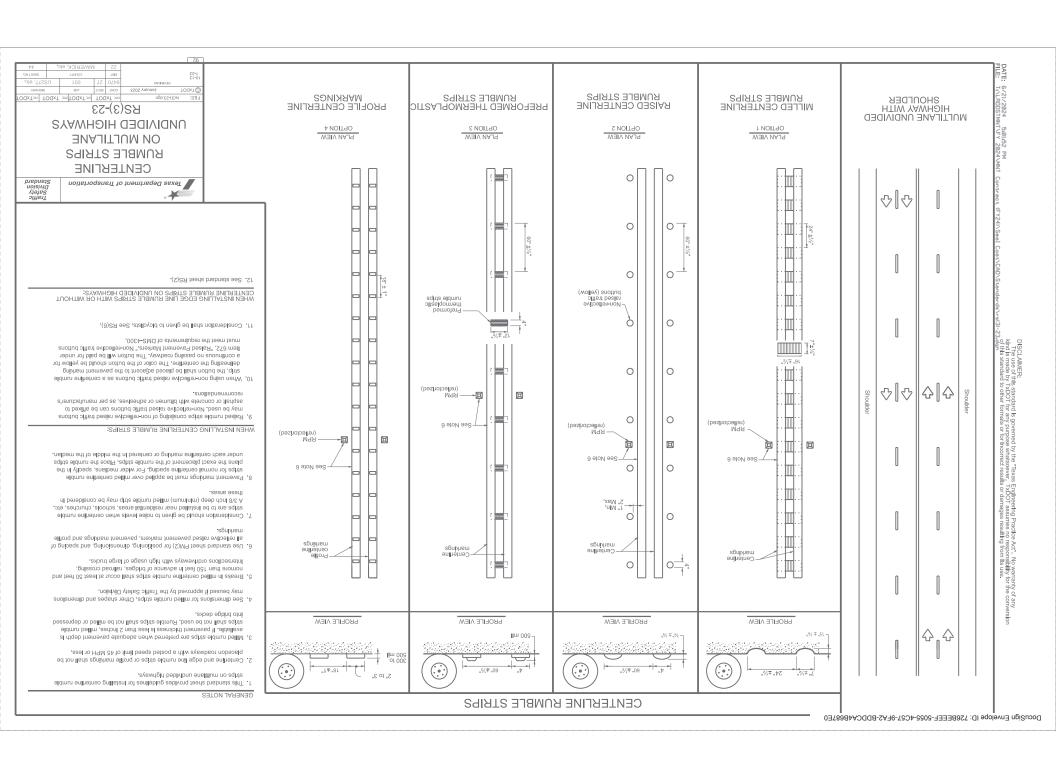


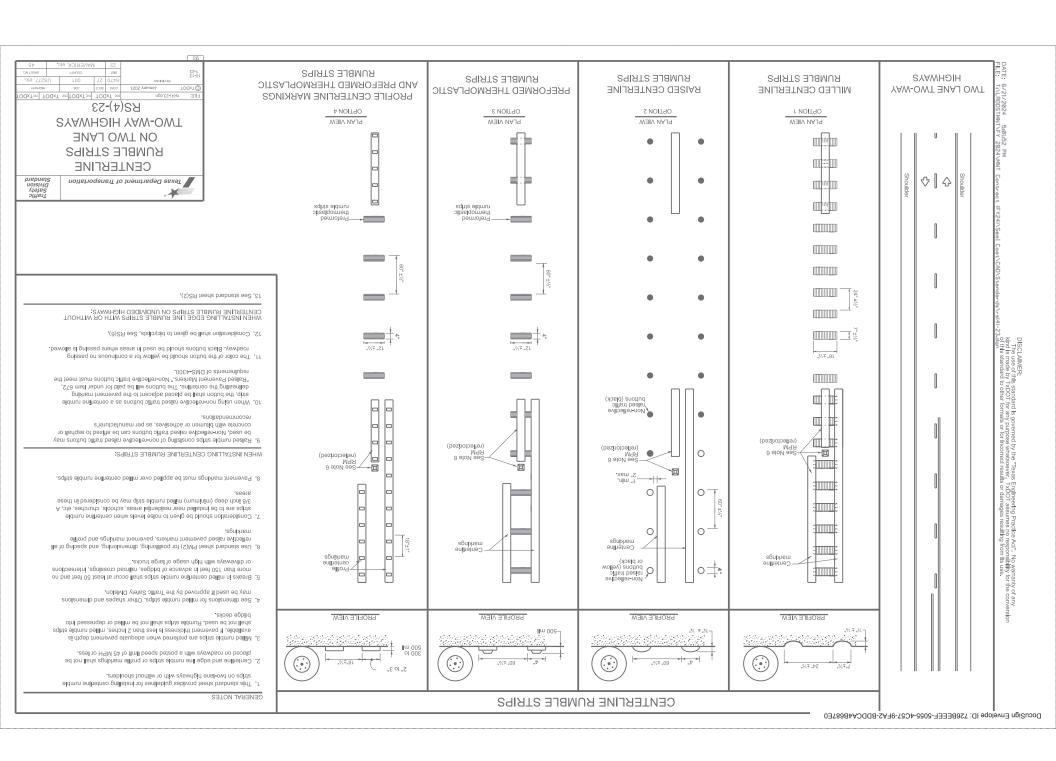


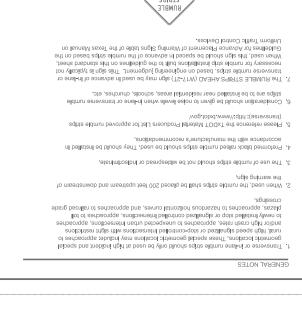












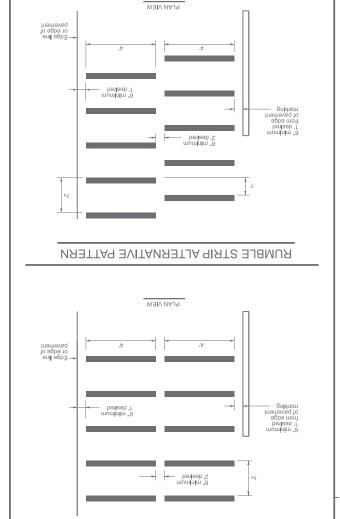
TRANSVERSE OR IN-LANE RUMBLE STRIPS RS(5)-23

Texas Department of Transportation

Traffic Safety Division Standard

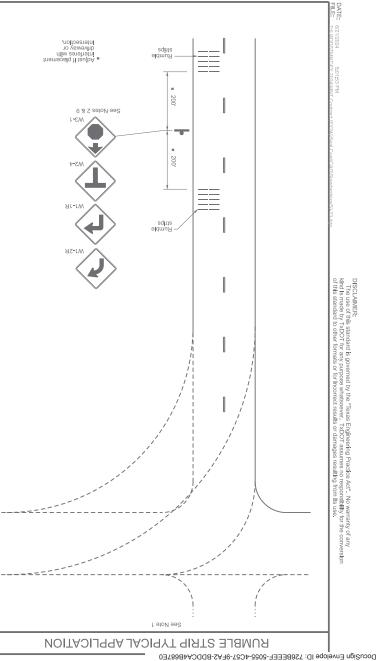


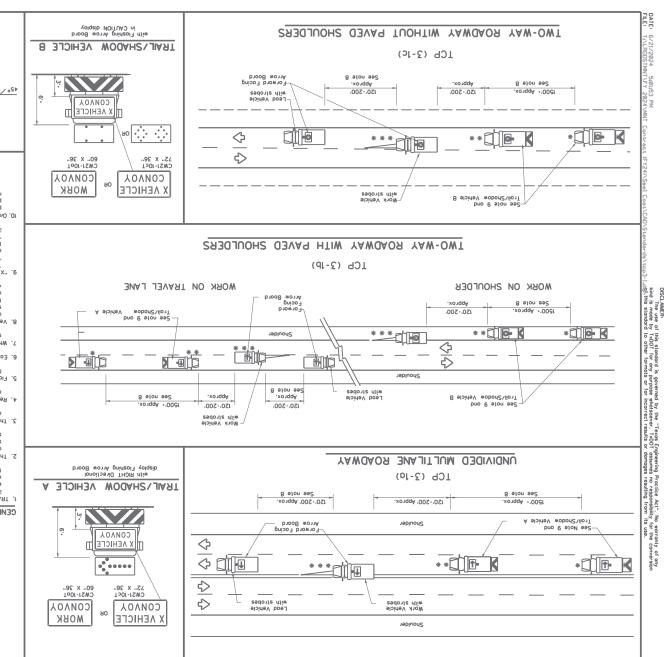
- 8. Consideration shall be given to bicyclists. See RS(6).
- 9. Other signs can be used as conditions warrant.



RUMBLE STRIP STANDARD PATTERN

PROFILE VIEW





DocuSign Envelope ID: 726BEEEF-5055-4C57-9FA2-BDDCA4B687E0

| 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 172 | 17

TCP(3-1)-13

TRAFFIC CONTROL PLAN MOBILE OPERATIONS UNDIVIDED HIGHWAYS

constraint of the state of the

rearmost protection vehicle.

STRIPING FOR TMA

(AMT 30 HTGIW)

10, On Iwo-lone Iwo-way rodways, I've work and profession vehicles should be placed on the bock of the pass I modically to allow work convoy, o "DO NOT PASS" (R4-1) sign should be placed on the bock of the

if a TRAIL VEHICLE is used.

YERIOCE (CWN21-101) or "YERIOCE CONVOY" (CWN21-101) signs may be used on the SHADOW VEHICLE
"WORK CONVOY" (CWN21-101) or "Y VEHICLE CARONOY" (CWN21-101) signs may be used where
"YORK CONVOY" (CWN21-101) or "Y VEHICLE CONVOY" (CWN21-101) signs may be used where
"YOR CONVOY" (CWN21-101) or "Y VEHICLE CARONOY" (CWN21-101) signs may be used where
"YOR CONVOY" (CWN21-101) or "Y VEHICLE CONVOY" (CWN21-101) signs may be used where
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"YOR CONVOY" (CWN21-101) or "Y VEHICLE CONVOY" (CWN21-101) or "

8. Vehicle spocing between the TRAIL VEHICLE and the SHANDW VEHICLE will vory depending on sight distonce restrictions. Motorists opproaching the work convoy should be oble to see the TRAIL VEHICLE in time to slow down and/or change lones as should be oble to see the TRAIL VEHICLE. Vehicle spocing between the WORK VEHICLE and VEHICLE work approach fine TRAIL can develope appoing out the TRAIL of and SHADOW VEHICLE and vehicle appoing between WORK VEHICLE and LEAD VEHICLE may vory occording to terrain, work octivity and other factors.

shodow the other convoy vehicles.

- 7. When work convoys must change lanes, the TRAL VEHICLE should change lanes first to
 - 6. Each vehicle shall have two-way radio communication capability.

-White Reflective

Red Reflective

- 5. Floshing or tow boords shall be Type B or Type C as per the Borricade and Construction (BC) standards. The board shall be controlled from inside the 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.

ore required.

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

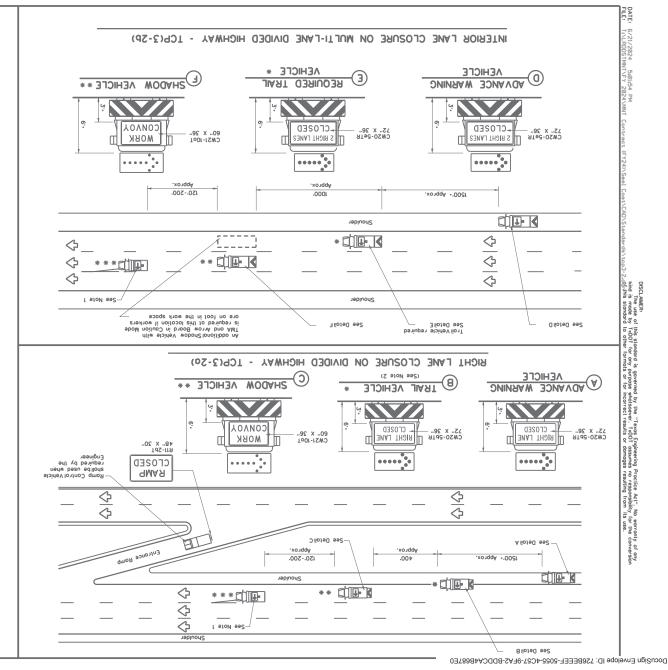
2. The use of omber high intensity rototing, lioshing, oscilloting, or strobe lights on vehicles ore required. Blue high intensity rototing, lioshing, oscilloting or strobe lights when mounted on the driver's side of the vehicle may be operated simultaneously with the amber beacons or strobe lights.

TRML, SHADOW, frond LEM, vehicles sholl be deupped with provive boords os
equipped with on arrow board. The Engineer mil determine if the LEAD VEHICLE
ond/or TRML VEHICLE or er required based on prevoiting roadway conditions,
froific volume, and sight distance restrictions.

CENERAL NOTES

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MR3T DUOJ YRANOITATS	3TAIQ3WR3TNI YRANOITATZ MR3T	MR3T TROHZ YRANOITATZ	TROHZ MOITARUQ	37180W
TYPICAL USAGE				

CAUTION (Alternating Diamond or 4 Corner Flash)		woli SilionT	₹
world elduoO	4	Truck Mounted Attenuator (TMA)	
Innoi) Divectional	₫	Heavy Work Vehicle	фШ
RICHT Directional	-	Work Vehicle	* * *
YAJ92IO OMAOB WOMMA		Shodow Vehicle	* *
XV 18310 08V08 MO88V		Froil Vehicle	*
	CND	737	





DIVIDED HICHWAYS MOBILE OPERATIONS TRAFFIC CONTROL PLAN

Traffic operations noisivid brabnate Texas Department of Transportation

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

-MUIG KEIIBCIIVE

KED KELIECTIVE

9

left lone closures or interior closures which close the left lones. 13. Signs and flashing arrow board modes shall be appropriately affered when implementing

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

it the rectorgular signs shown are not available.

STRIPING FOR TMA

(AMT 30 HTGIW)

17. Standard diamond shape versions of the CW20-5 series signs may be used as an option

Advance warning venicle. o minimum chorocler height of 12", and disploying the same legend may be substituted for these signs. An appropriate directional orew alsolys, amulating the size and legbility of the leshing arrow board, must be used in the second phase of the PCMS/MCMS message. When this is done, the arrow board will not be required on the Advance Worning Vehicle. 10. The signs shown should be used on the Advance Worning Vehicle. As an option, a portable changeable message sign (FCMS) or a truck mounted changeable message sign (FCMS) or a truck mounted changeable message sign (FCMS) with

wox be used where adequate mounting space exists. 9. Standard 48" X 48" diamond shaped warning signs with the same message as those shown

should be oble to see the TRAL VEHICLE. In time to slow down anothor nonnege innes as they proved the TRAL VEHICLE. Wehicle specing between the WORW VEHICLE and youry occording to terrain, work activity and other factors. depending on sight distance restrictions, motorists approaching the work convoy 8. Vehicle spocing between the TRAL VEHICLE and the SHADOW VEHICLE will vory

suggow rue oruer convoy venicles.

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

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

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

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

simultaneously with the amber beacons or strobe lights. on vehicles are required. Blue high intensity rotating, floshing, oscillating or strobe lights when mounted on the driver's side of the vehicle may be operated 3. The use of omber high intensity rotating, floshing, oscillating, or strobe lights

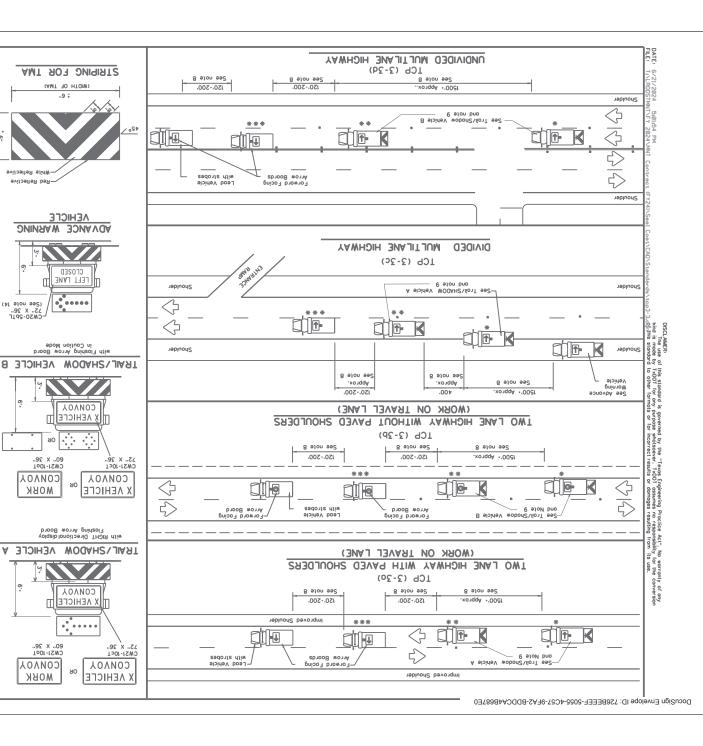
2. For (TCP(2-20) the Engineer will determine if the TRRL VENILE is required based on prevailing roadway conditions, LOIIf: outpure, and sight distance restrictions. All other vehicles shown for both TCP(3-\20) and TCP(3-\20) are required.

type of work being performed. The orrow boords shallbe operated from ADVANCE WARNING, TRAIL and STANDOW vehicles shoulbe equipped with Type 8
or Type (Loshing arow boards or per the Borricade and construction (BC)
standards. Arrow boards on WORK vehicles will be optional based on the

CENERAL NOTES

				F
LONG TERM YAANOITATZ	3TAIG3MR3TNI YRANOITATZ MR3T	MR3T TROHZ YRANOITATZ	TROHZ MOITARUQ	MOBILE
TYPICAL USAGE				

				_
_				
	CAUTION (Alternating Diamond or 4 Corner Flash)		Wolf silterT	₹>
	World Arrow	4	Truck Mounted Attenuator (TMA)	
	LEFT Directional	₫	Heavy Work Vehicle	ф
	RICHT Directional	+	Work Vehicle	* * *
Г	YAJ92IO OSAON WORRA		Shodow Vehicle	* *
L	X4 10210 00400 W0004		9loirleV lio1T	*
- [CND	131	





Texas Department of Transportation 1

oiiterT operations noisiviO brebnet2

Is.On two-lone (two-very rodweys, the work and protection vehicles should pull over periodically to allow motor vehicle (rolfic to peas, if motorists are not ollowed to pass the work convey, a D0 MOT PASS (RA-1) sign should be placed on the back of the rearmost protection vehicle. f necessory.

Vehicle.

15. Stordwided highways with three or four lones in each direction, use TCP(3-2.2).
15. Stordwided highways with three or four validable.
15. Stordwided highways with three or four validable.
16. The Advance Worning Vehicle may straddle the edgeline when Shoulder width makes it necessary.

A.f. Adouble orrow shall not be displayed on the orrow board on the Advance Warning LOSED (CW2O-561) 3 page bound be used on the Advance Werning Valerice. As on popular or you'close for you'close for a promote of the common and a promote or promote

if if I o shodow the other convoy vehicles.

8. Vehicle sporing between the IRML VEHICLE should chonge lones with its 1 o shodow the other open year of the SHADOW VEHICLE with the SHADOW VEHICLE with the SHADOW VEHICLE with the SHADOW CONTROL of the SHADOW VEHICLE with the SHADOW CWRITTON OF A shortest open and SHADOW VEHICLE with the SHADOW VEHICLE WHO WENDER WE WENDER WHO WENDER WHO WENDER WHO WENDER WHO WENDER WHO WENDER WE WENDER WHO W

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

I. When work convays must change lares, the TRAL VEHICLE should change lanes

as four dimensions of more secons or stroke lights.

Simultoneously with the omber becomes or stroke lights.

S. The use of fucus monited or femotics of TMAs on the SHADOW VEHICLE, ADVANCE WARRING.

DAS SOOO, 1996.

S. Finshing or now boards shallbe Type B or Type C as per the Borricade and

S. Finshing or now boards shallbe Type B or Type C as per the Borricade and

S. Finshing or now boards shallbe Type B or Type C as per the Borricade ond

Vehicle.

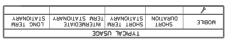
prevoiling roadway conditions, fucific volume, and sight distance restrictions.
The use of omber high intensity rotoling, floshing, acsilloting, or strobe lights on vehicles are required. Blue high intensity rotoling, or strobe lights, acsilloting, or strobe lights, when mounted on the driver's sade of the vehicle may be operated simultaneously with the amber become ar strobe lights.

TRAIL, SHADOW, and LEAD vehicles shall be equipped with arrow boards as

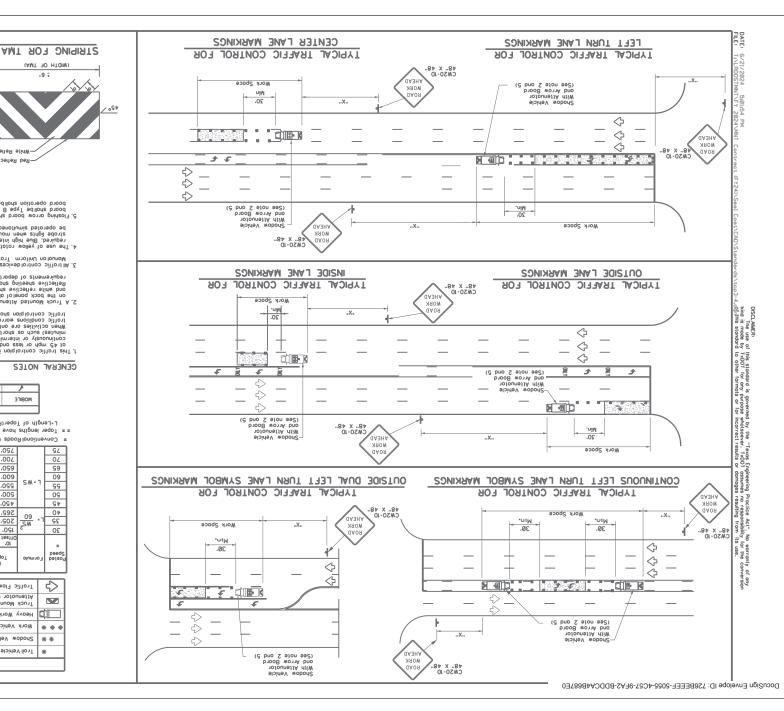
CENERAL NOTES

(#I 910U 99C)

CW20-55TL



CAUTION (Alternating Diamond or 4 Corner Flash)	6	Wolf sillorT	₹>
Worn's Siduod	+	Truck Mounted Attenuator (TMA)	
LEFT Directional	-	Heavy Work Vehicle	ф.
RICHT Directional	+	Work Vehicle	* * *
YA J92IO ONAO8 WONNA		Shodow Vehicle	* *
AA IBSIG GBAGB WIGHBA		9loideV lio1T	*
	SEND	737	



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> **CHANGED HICHWAYS** ISOLATED WORK AREAS MOBILE OPERATIONS FOR TRAFFIC CONTROL PLAN

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Texas Department of Transportation

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

-White Reliective

Red Reflective

4. The use of yellow cotoling becoms or strobe ights on vehicles ore required. Blue high intensity rotoling, losthing, oscilloting or strobe ights when mounted on the drivers side of the vehicle may be operated simultaneously with the amber become or strobe lights.

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

ond white reflective sheeting ploced in on inverted "V" design.
Reflective sheeting shall meet or exceed the reflectivity and color
requirements of departmental moterial specification DMS-8300, Type A. sholl be 8" red ou rue pack baueros air ruck wonused assentators 2. A Truck Mounted Attenuator shall be used on Shadow Vehicle. Striping

> traffic controlpion should be used. (rollic conditions workant, a short duration or short-term stationary continuously or intermittently (stopping up to approximately 15 minutes) such as short-line striping and in-lane rumble strips. When activities are anticipaled to lake langer amounts of time or avor 10n) and as and is intended for modified equations and seen to right C+ 10 1. This troffic controlpion is for use on conventional roads posted

CENERAL NOTES

(AMT 30 HTGIW)

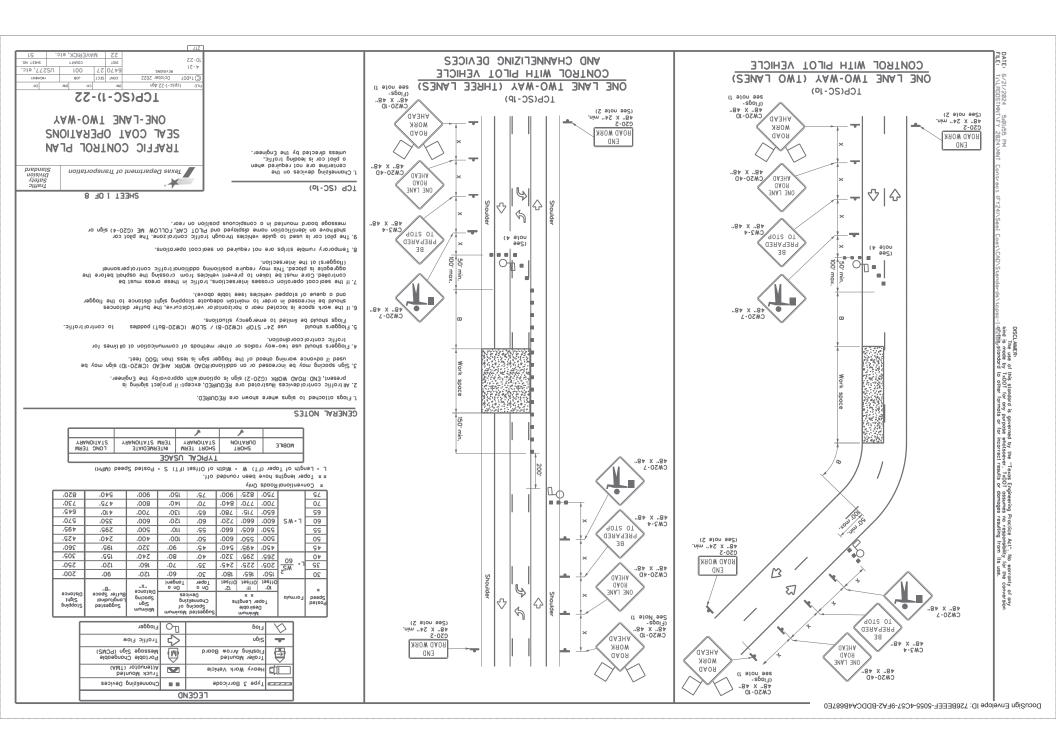
				<i>P</i>		
LONG TERM YAANOITATZ	3TAIO3WR3TVI YRANOITATZ MR3T		TROHZ MOITARU0	3,1180M		
TYPICAL USAGE						

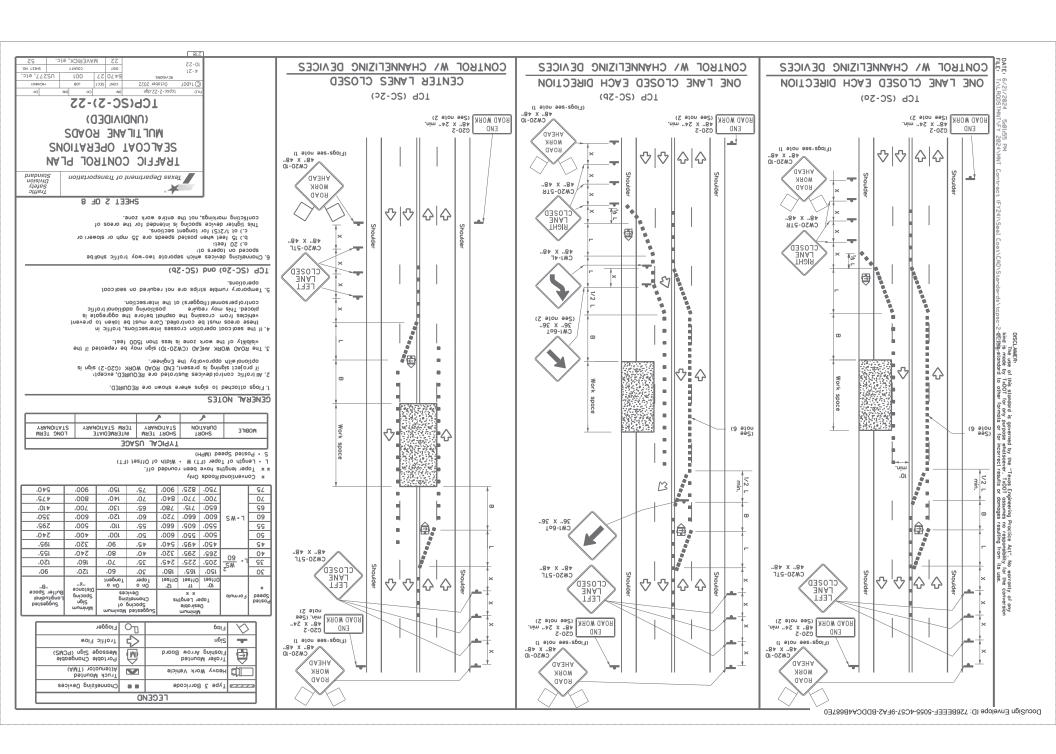
L-Length of Toper(FT) W-Width of Offset(FT) S-Posted Speed(MPH)

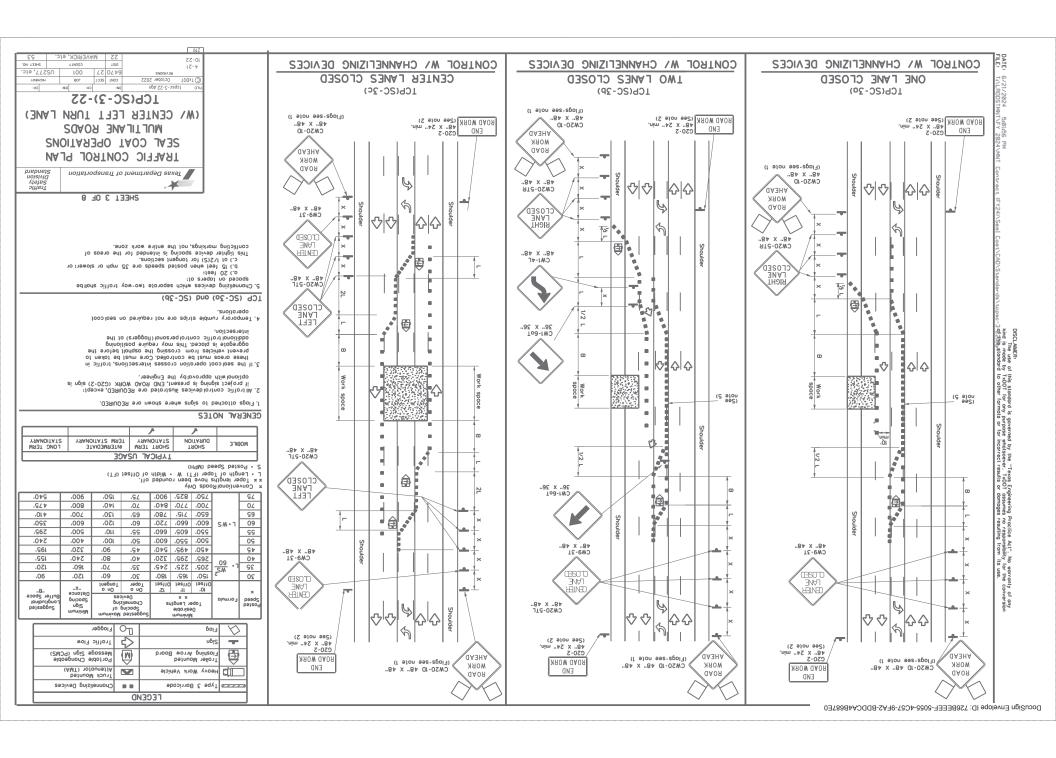
xx Toper lengths hove been rounded off. x Conventional Roads Only

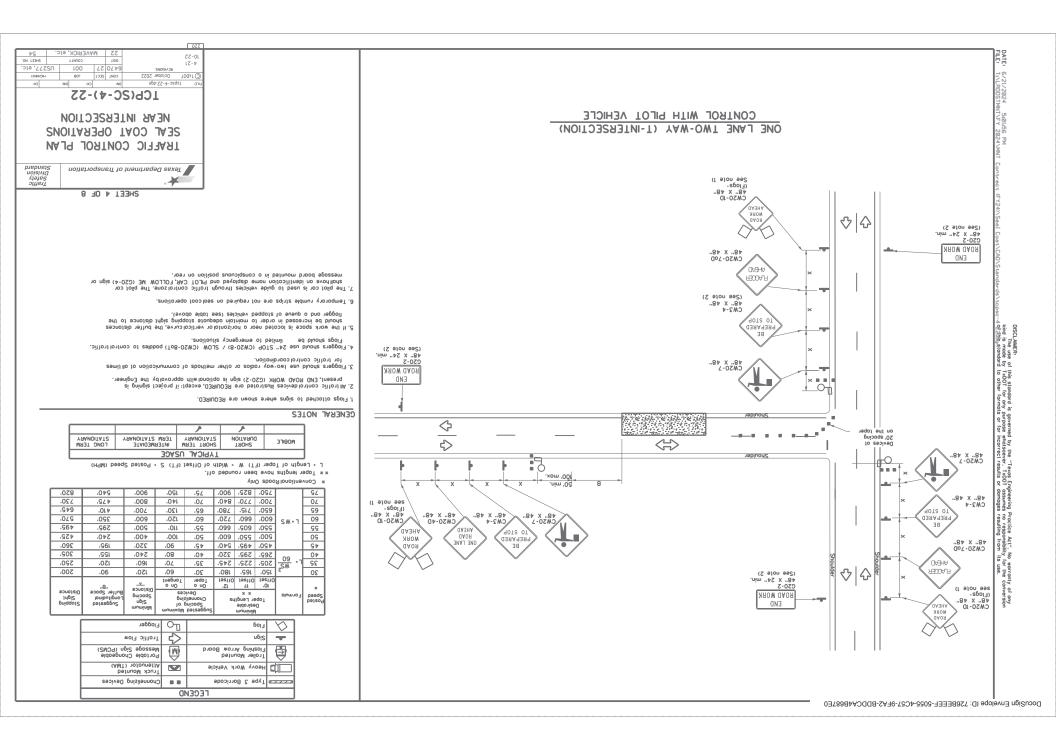
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.991	240.	.08	.07	320.	.962	.592	09 -	07
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.06	120.	.09	30.	180.	.991	.091	20.11	30
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Suggested Longitudinal Buffer Space	muminily Sign pricods "X"	Jo Gui	bessegeu2 gnioog2 silennod0 oive0		Minimum esiroble er Lengtl x x	σ -	Formula	posted beed2

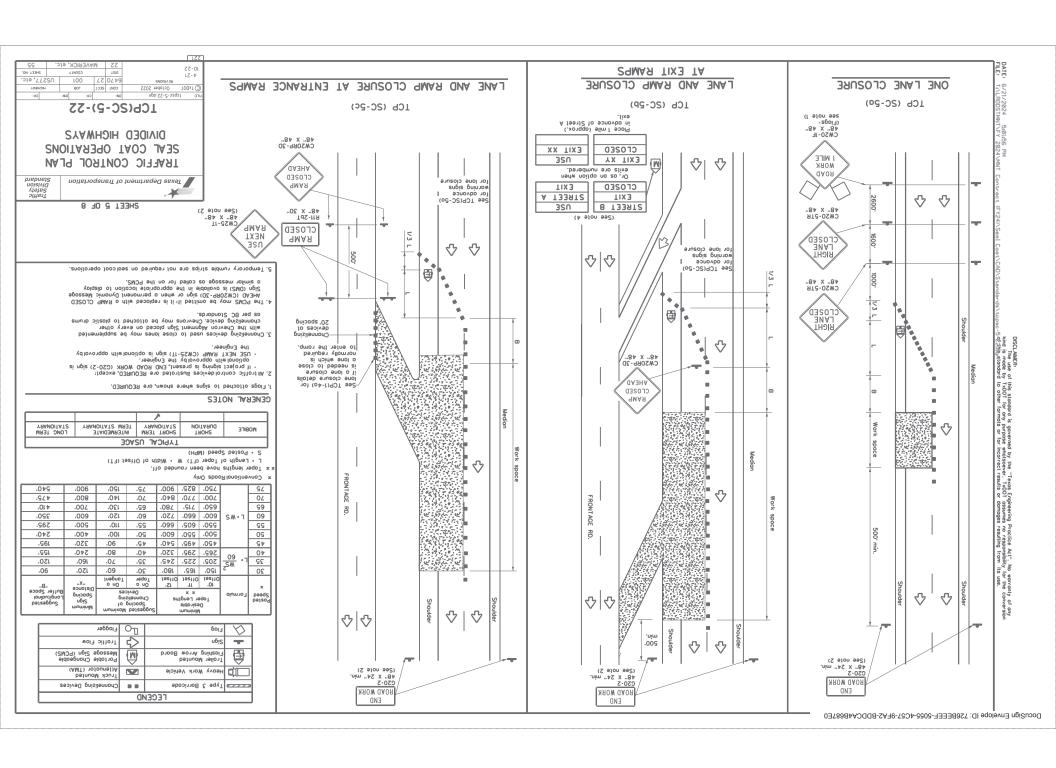
Channelizing Devices		Wolfic Flow	₹>
world alduoO	+	Truck Mounted Aftenuator (TMA)	
LEFT Directional	→	Heavy Work Vehicle	фШ
RICHT Directional	d-	Work Vehicle	* * *
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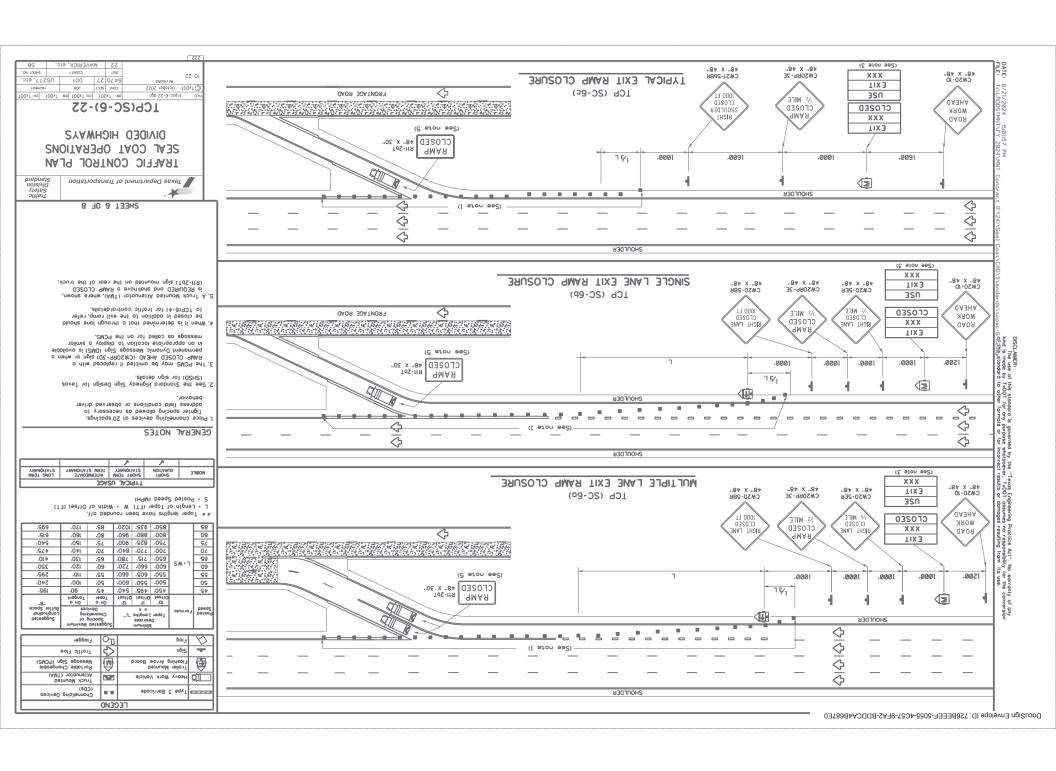












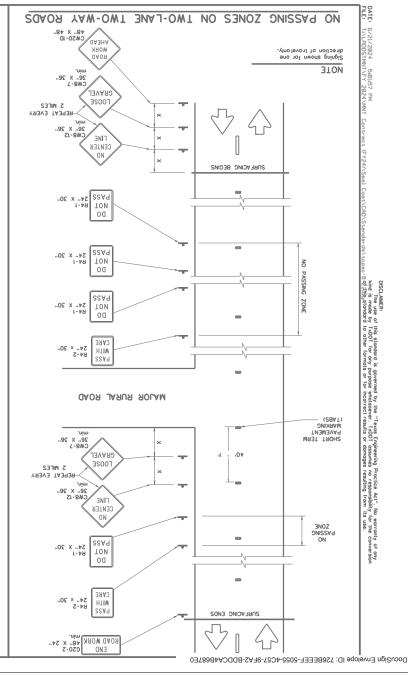
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CHEET NO.

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WARKINGS



1CP(SC-8)-22 SEAL COAT OPERATIONS F0R

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CHEET NO.

Traffic Safety Division Standard

TRAFFIC CONTROL DETAILS

Texas Department of Transportation

SHEET 8 OF 8

directed by the Engineer. the roodway based on roodway conditions as ayonid be placed on both right and left sides of 5. Signs on divided highways, freeways and expressways

1Z-b

D1xD01 October 2022

tcpsc-8-22.dgn

diomond shoped construction worning signs shall 4. When surfacing operations take place on divided highways, freeways or expressways, the size of

Zone Sign Supports. Control Devices List (CWZTCD) on supports approved for Short Duration / Short Term Stationary Work 3. Signs shall be erected as detailed on the BC Standards or the Compliant Work Zone Traffic

others required elsewhere in the plans. andbiement those required by the BC Standards or 2. The devices shown on this sheet ore to be used to

os directed by the Engineer. detailed on this sheet furnished and erected passing zones clearly marked with tabs as well os having any of the traffic control devices Surfacing operations that cover or obliterate existing pavement markings must first have the

CENERAL NOTES

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LONG TERM YRANOITATS	3TAIG3WR3TNI YRANOITATZ MR3T	MR3T TROHZ YRANOITATZ		371801/1
	SAGE	TYPICAL U		

* Conventional Roads Unly

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.009	09
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350.	97
5∉0.	07
.091	35
120.	30
muminiM Sign Spocing Distonce "X"	Posted *

LOOSE GRAVEL and NO CENTER LINE sign placements will then be repeated as described above. TRAFFIC FINES DOUBLE (RSO-51) sign: ond b.) One "X" sign spoting prior to the CONTRACTOR (CSO-61) sign typically located of or near the limits of surfacing. o.) In the sequence shown following the OBCY WRANING SIGNS STATS LAW (R20-31) aign and the sidus sponta pe placed: B. Where possible, the ROAD WORK AHEAD (CW20-1D), LOOSE CRAVEL (CW8-7), and NO CENTER LINE (CW8-12)

aduind (Abically shown on the Barricade and Construction Standards for project limits to ensure A. The location of warning signs at the beginning and end of a work area are to be coordinated with other

COORDINATION OF SIGN LOCATIONS

- B. The LOOSE GRAVEL signs are to remain in place until the condition no longer exists.
- and repeated at intervals of approximately two miles in rural areas and closer in urban areas. A. When construction begins, a LOOSE GRAVEL (CW8-7) sign should be erected at each end of the work area

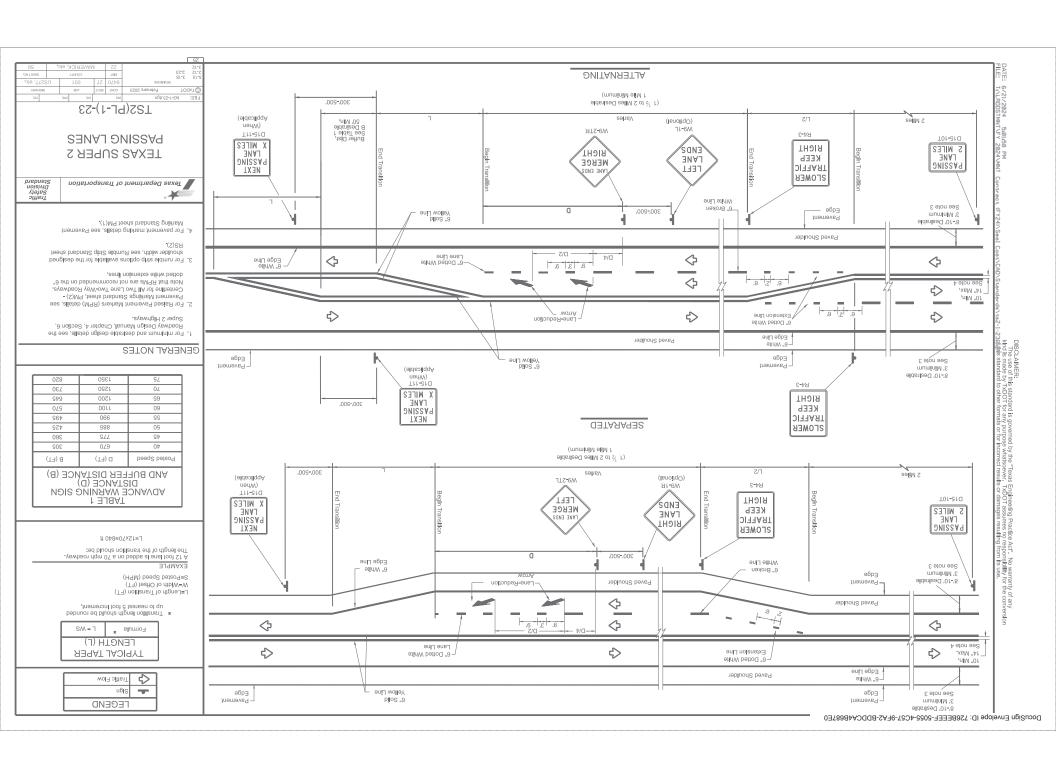
LOOSE GRAVEL (CW8-7) SIGN

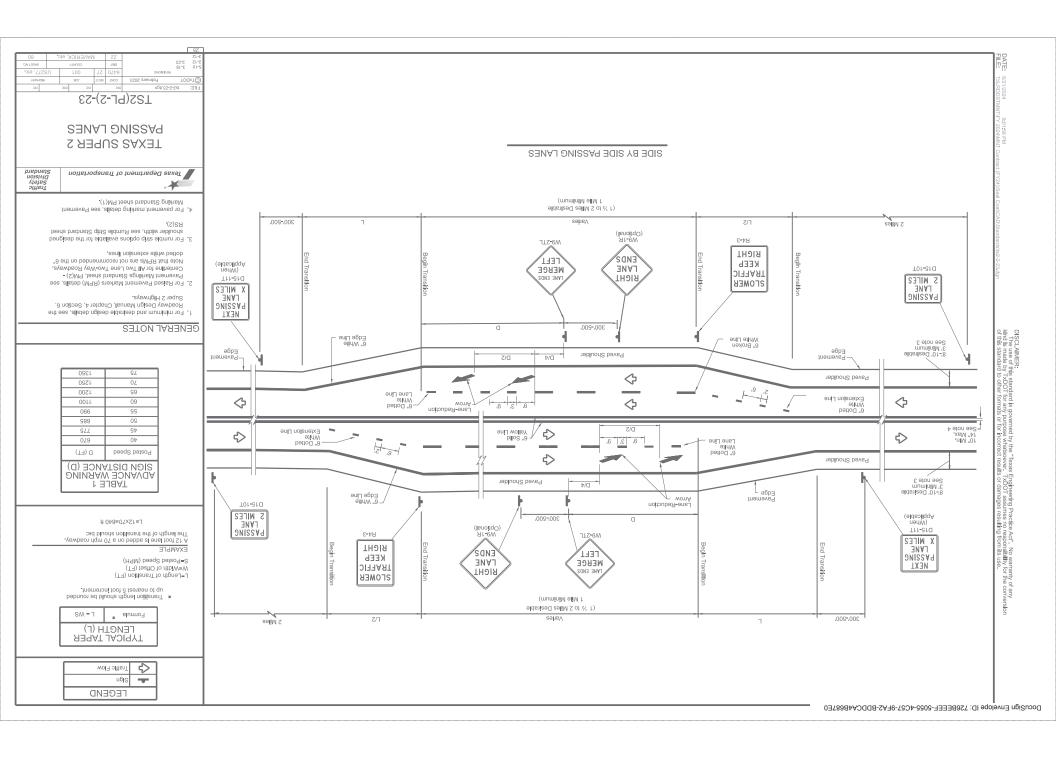
- C. The NO CENTER LINE signs are to remain in place until permanent povement markings are installed.
 - intersections, and other locations deemed necessary by the Engineer.
- At the time construction ceivily objectories the satisfance code may use of code may not one on existing center times, a NO CENTER LINE (CMB-12) sign about do e exected of the beginning of the evolution of the work one or appointmentally the amile intervals within the work one or beyond major interventions themselven to the control of the control of
 - have opposite directions of travelon a roadway. Divided highways do not typically have center line A. Center line morkings are yellow povement morkings that delineate the separation between lanes that

NO CENTER LINE (CW8-12) SIGN

- D. DO NOT PASS and PASS WITH CARE signs are to remain in place until permanent povement markings are the beginning and end of the no-passing zones where the surfacing operation has stapped for the day.
- covered until the surfacting operation has passed this location so as not to have the DO NOT PASS sign conflict with the existing povement markings. Mso, unless one doy of operation completes the entre conflict with the existing povement markings. Mso, unless one MsSS with KARS signs should be placed at should be used and repeated as aften as necessary for this purpose. Where several existing zones are to be combined into one individual no-passing zone, the sign of the beginning of the zone should be C. Depending on trollic volumes and length of sections, it may be desirable to prohibit passing throughout the project to prevent damage to windshields and lights. The DO NOT PASS sign and NEXT XX MILES plaque
- signed with a PASS WITH CARE sign and a NEXT XX MILES plaque. where there is a considerable distance between no-passing sones, the end of the no-passing sone may be B. Al the discretion of the Engineer, in orders of numerous no-posaring sones, soverold sones may be combined or a paingle zone. If possing is to be prohibidly over one or more lengthly sections, o DO NOT PASS sign and of NEXT XX MILES (MSO-1IP) plaque should be used of the beginning of such sones. The DO NOT PASS sign and ord of MSX XX XX MILES (MSO-01 should be respected acts ymile to the end of the norse prosection, sones, the condition the temperature of the many part of
- A. Prior to the beginning of construction, all cureanly striped no-pessing sones shoulbe signed with the loch sone love each direction of trovet except to soften week. Signes motiving these individual tor-pessing sones meed not be covered prior to construction if the signs supplement the existing povement morthines.

DO NOT PASS (R4-1) SICN and NO-PASSING ZONES





LINES

SOLID

NO-PASSING SAAI DONBLE "Sr of "4 50, ₹ 9,, WORK ZONE SHORT TERM PAVEMENT MARKINGS DETAILS

34AT

SAAI

(FOR LANE DROP LINES) **LINES** 土田 WIDE DOTTED SHAI 3.∓3. etinW or White .9 ∓ .9 7 |----| (FOR CENTER LINE) **JYAI** LINES #F 1 = 3 # 000 BROKEN SBAT Yellow or White TIME

L 20, ∓ 6"

■ Type Y-2 or W

wolle

..9 T.9°b

_9 ∓ .0Z ∃4A1 **WARKINGS** MIDE COKE SAAI -9 ∓.0Z —

-15,∓e" -

are not allowed for this purpose.

2. Short term pavement markings shall NOT be used to simulate edge lines. . Short term pavement markings may be prefabricated markings (silick down tape) or temporary flexible reflective roadway marker tabs unless otherwise specified elsewhere in plans.

3. Dimensions indicated on this sheet are typical and approximate, Variations in size and height may occur between markers or devices made by manufacturers, by as much as 1/4 inch, unless otherwise noted.

L. Temporary flexible-reflective roadway marker tabs will require normal maintenance replacement when used on roadways with no more finan 10% truck mix. When roadways exceed these values, additing the presence of the properties of the properties.

conditions prohibit placement. Permanent pavement markings shall be placed as soon as weather permits. markings are in place. When the Contractor is responsible for placement of permanent pavement markings, no segment of readway shall emails without become in rankings for a pend greater than 14 calendar days unless weather requirements. csieugst gs/a 1 ue courtscrot will be tesbousible tot trisiurisiuiug soot fetu bakement tustkings nurii betusueut bakement 5. No segment of roadway open to traffic shall remain without permanent pavement markings for a period greater than 14

6. For two lane, two-way roadways, DO NOT PASS signs shall be erected to mark the beginning of sections where passing is permitted. Signs prohibited and Passing is permitted. Signs a polylegic and Passing is permitted. Signs a shall be retained to make be beginning of sections where passing is permitted to make a shall be retained on the provided that the passing is permitted by the passing is beginned as a provided that the passing is permitted by the passing is permitted by the passing is permitted by the passing is provided by the passing is provided by the passing is permitted by the passing is provided by the passing passing is provided by the passing p

7. For low volume two lane, two-way roadways of 4000 ADT or less, no-passing lines may be omitted when approved by the Engineer. DO NOT PASS and PASS WITH CARE agars shall be erected (see note 6).

motoriest through the exit. It channelizing devices are to be used it should be noted elsewhere in the plans. One piece cones For exit gores where a lane is being dropped place wide gore markings or retroreflective channelizing devices to guide.

TEMPORARY FLEXIBLE, REFLECTIVE ROADWAY MARKER TABS (TABS)

additional maintenance replacement of devices should be planned.

∃4A1

OF CHANNELIZATION

NO-PASSING LINE

SINGLE

TIME

. Genporary flashbrades electric mass of active contracts of the contract of

2. Tabs shall meet requirements of Departmental Material Specification DMS-8242.

antomobile low-beam head light at night, unless sight distance is restricted by roadway geometrics. 3. When dry, tabs shall be visible for a minimum distance of 200 feet during normal daylight hours and when filluminated by

No two consecutive tabs not four tabs per 1000 feet of line shall be missing or fall to meet the visual performance requirements of Note 3.

ES-(M9TS)SW 1. All talked pavement markers used for work zone markings shall meet the requirements of frem 5/2, RAISED RAISED PAVEMENT MARKERS Prefabricated Pavement Markings" or DMS-8243 "Temporary Costruction-Grade Prefabricated Pavement Markings." PAVEMENT MARKINGS . Non-removable Prefabricated Pavement Markings shall meet the requirements of either DMS-8240 "Permanent **WORK ZONE SHORT TERM** 1. Temporary Removable Prefabricated Pavement Markings shall meet the requirements of DMS-8241. Traffic Safety Division Standard Texas Department of Transportation easter removal or raised markers and tabe. short form markings, the markers shall be applied to the top of the tape at the approximate mid length of the tape. This allows an asserge the markers and tape. -avement Marker Short Term It raised pavement markers are used to supplement REMOVABLE Kalsed Removable TWO-WAY LEFT TURN LANE SAAI ∃dAT 91INVV Ş Type Y-2 000 111 000 000 000 111 000 000 . LANE & CENTER LINES FOR MULTILANE UNDIVIDED HIGHWAYS SAAT ∃d∀I White 000 Type W V 111 111 000 111 LANE LINES FOR DIVIDED HIGHWAY SAAI Type W Wide Gore Markings Wide Gore Markings SOUTH DOLLOW BOLLY Wide Dotted Lines ♦ п چّ \Diamond ₫ AN add1 000 111 000 111 \Diamond ♦ ♦ \Diamond ♦ ♦ 000 <> W aqyT CENTER LINE & NO-PASSING ZONE BARRIER LINES FOR TWO LANE TWO-WAY HIGHWAYS CARE CARE HIIM HIIM SSA9 SAAT SSA9 ∃d∀I WO||9Y 000 1-t4 SSA4 22A9 TON TON DO DO WORK ZONE SHORT TERM PAVEMENT MARKINGS PATTERNS

PREFABRICATED PAVEMENT MARKINGS

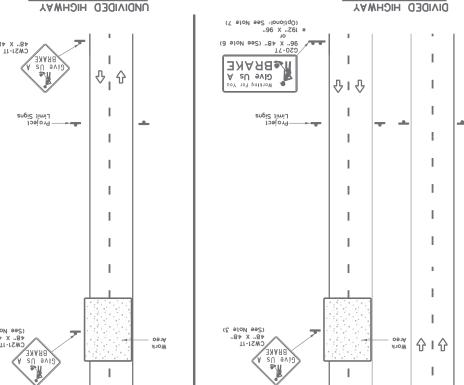
DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS) & MATERIAL PRODUCER LISTS (MPL) PAVEMENT MARKERS" and DMS-4200.

Promos leiglenced spoke can be lond sloud with embedded links to their respective withs at the lonowing website:

http://www.txdot.gov/business/contractors_consultants/material_specifications/default.htm

elsewhere in the plons. 192" x 96" sign is required, the locotions shall be noted * When the optional larger WORKING FOR YOU GIVE US A BRAKE (G20-71)

SICNS VAE SHOWN FOR ONE DIRECTION OF TRAVEL



UNDIVIDED HIGHWAY "84 X "84 CW21-1T 48" X 48" (See Note 3) CW21-1T

8-96 3-03 CHEET NO. 100 \ \Z 0\Z \phi 2661 JaupuA TOOxT (C 103S IN00 DN: TxD0T CK: TxD0T DW: TxD0T CK: TxD0T MZ(BKK)-13

SICN2 "GIVE US A BRAKE" **MOKK ZONE**

Traffic snoistragO noisiviO brabnat2 Texas Department of Transportation

before the sign is manufactured.

shall be shown in the plans or the Engineer shall provide a detail to the Contractor Highway Sign Designs for Texas," latest edition. Sign details not shown in this manual 8. All signs shall be constructed in accordance with the details found in the "Standard

Item 647 - Lorge Roadside Sign Supports and Assemblies. Item 416 - Drilled Shaft Foundations

under the following specification items:

Item 636 - Aluminum Signs

7. The Working For You Give Us A BRAKE (C20-71) 192" X 96" sign shall be poid for

 $4^{\prime\prime}\times6^{\prime\prime}$ wood posts with drilled holes for breakaway as per BC(5) and will be subsidiary to Item 502. plywood substrate or 0.125" aluminum sheeting substrate and may be supported by two 6. The 96" X 48" Working For You Give Us A BRAKE (C20-71) may use a 1/2" or 5/8"

> subsidiory to Item 502, "Borricodes, Signs and Traffic Handling." 5. Give Us a Brake (CW21-1T) signs and supports shall be considered

> > speed zone signing when required.

US A BRAKE signing. See BC(3) for location and spacing of construction 4. Work zone speed limits are sometimes used in conjunction with GIVE

nzeq tor this purpose.

repeated halfway through the project. The Give Us a Brake (CW21-1T) may be 3. For projects more than two miles in length, Cive Us a BRAKE signs should be

Z. Sign locations shall be approved by the Engineer.

1. See BC and SMD sheets for additional sign support details.

CENERAL NOTES

Wolfic Flow

Lorge Sign

FEGEND

ubis ₩

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MON-REFLECTIVE ACRYLIC FILM	LEGEND & BORDERS	BLACK		
TYPE 8FL OR TYPE CFL	ВАСКСВОПИD	ORANGE		
SHEETING MATERIAL	SOASU	COLOR		
·				
2000 540				

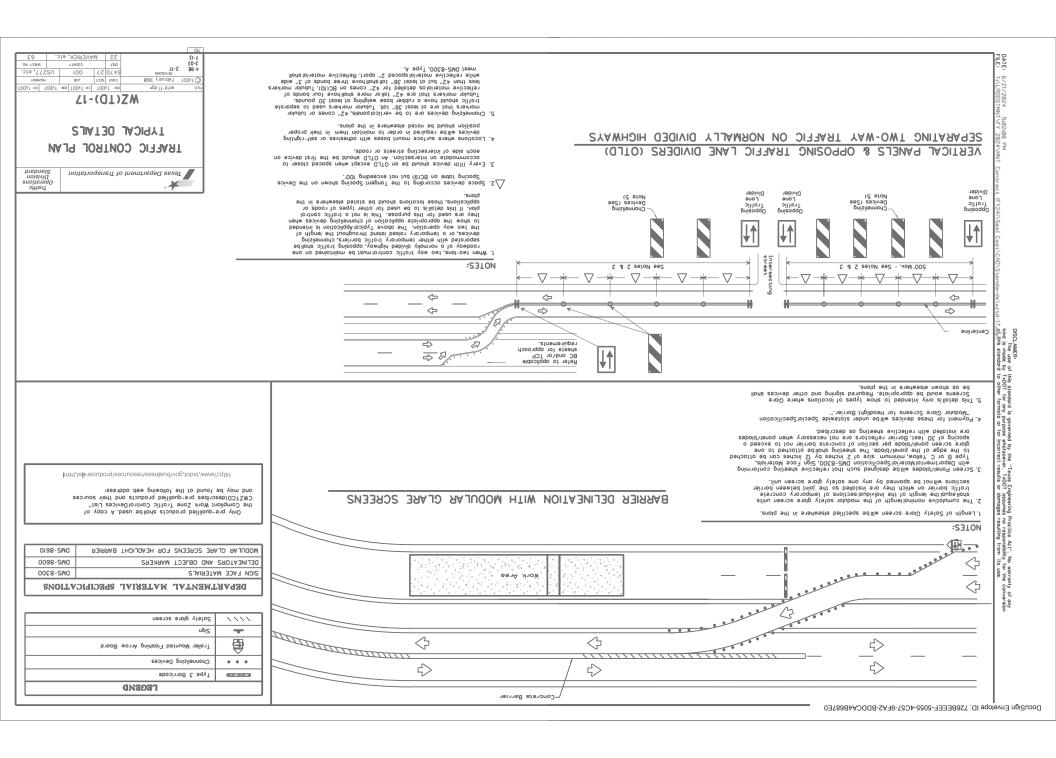
0028-SM0	SJGN FACE MATERIALS
ONS-7110	ALUMINUM SIGN BLANKS
0017-2MQ	PLYWOOD SIGN BLANKS
ONOTIVOLI	OG IO GWINGLYW GWLNGWINW IGG

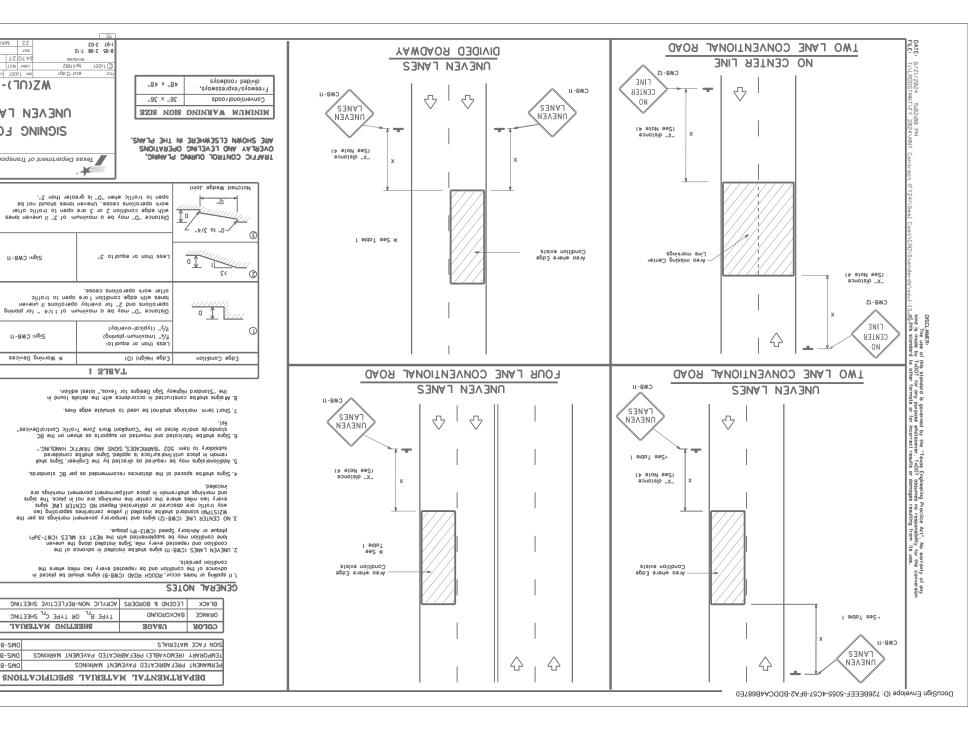
DEPARTMENTAL MATERIAL SPECIFICATIONS

W See Note 6 Below

SUMMARY OF LARGE SIGUS									
DRILLED			GALVA STRUC ST	13 OS	REFLECTIVE SHEETING	DINENZIONZ		SICN	
(LF)	-	<u>1</u> 5	əsi2			C1-0-C1-0-C1-0		NOITANDI230	
•	▼	•	•	32	Type B FL or C FL	8+ X96	Meritage For You Give Us A Citye Us A	14-029	Oronge
ζι	۷ı	91	81×8W	821	Type B _{FL} or C _{FL}	96 XZ6I	Morting for You	14-029	Oronge

DocuSign Envelope ID: 726BEEEF-5055-4C57-9FA2-BDDCA4B687E0





1-97 3-03

TABLE 1

CI-/ 96-Z C6-R

Seet FragA TOOx T (

npb.či-lusw

'ON 133HS

Traffic operations noisivid brabnate

100

SI-(JU)ZW

CMEVEN LANES

SICHING FOR

II-RMO : UDIS

LL-RMD : ubis

* Marning Devices

TYPE B_{FL} OR TYPE C_{FL} SHEETING

SHEETING MATERIAL

0028-2M0

1428-SM0

0#Z8-SW0

Texas Department of Transportation

ж: ТхDOT ск: ТхDOT ом: ТхDOT ск: ТхDOT

Segiment Bosins		MP: Notionwide Permit NO: Notice of Intent	USACE: U.S. Army Corps of Engineers USFWS: U.S. Fish and Wildlife Service	,	22 MAVERICK, etc. 65 onst county shear	
Zone Outlet Sediment Trops	Sond Filler Systems	NOT: Notice of Terminotion	T&E: Thr eat ened and Endonger ed Speci es		319 ZZZZZ 0459	
Compost Fillet Berm and Socks Compost Fillet Berm and Socks	Vegetation Lined Ditches	MS4: Muni ci pol Sepor ot e Stor mot er Sewer MBTA: M gr ot or y Bi r d Tr eat y Act	ystem TPMD: Texas Porks and Wildlife Department TxDOT: Texas Department of Transportation	CON1 20C1 700 HISHWA		
		MDU: Menor andum of Under standing	TPDES: Texas Pollutant Discharge Elimination System	© TXDOT 2024 SHEET 1 OF		
Mulch Filter Berm and Socks Mulch Filter Berm and Socks	Compost Filter Berm and Socks	FHMs: Federal Highway Administration MOA: Menorandum of Agreenent	PSL: Project Specific Locotion TGEG: Texas Commission on Environmental Quality			
Jeogmo Control Compost	Mulch Filler Berm and Socks	DSHS: Texos Deportinent of State Health Ser	ces PON: Pre-Construction Motification		(01.17)	
Diversion Dike	JeogmoJlonfool noizon3	BMP: Best Monogenent Proctice CGP: Construction Ceneral Pernit	SPCC: Spill Prevention Control and Counternacoure SMSP: Storm Water Pollution Prevention Plan		(EPIC)	
□ Interceptor Swale	Met Bosin				ISSUES AND COMMITMENTS	
m Sodding Sodding Sond Bog Berm	Constructed Wellands	JO ISIJ	SNOITAIV3988		ETIVIROUMENTAL PERMITS	
☐ Mulch ☐ Triongulor Filler Dike	nizo8 noilneJed bebndis					
Blonkets/Molting Gock Berm	Retention/krigation Systems					
		Engineer immediately.			Texas Department of Transport	
Temporary Vegelation	Yegelalive Filler Strips	nesting season of the birds associated ore discovered, cease work in the imme		3.		
Er asion Sedimentation	Post-Construction TSS	work may not remove active nests from			**	
Best Management Proctices:		do not disturb species or habitat and c		2.		
		If any of the listed species are observe	, cease work in the immediate area,	2		
bermit can be found on the Bridge Layouts.				•		
to be performed in the waters of the US requiring the use of a			id horming or hondeling this species.	Action No.		
The elevation of the ordinary high water marks of any areas requ	ing work	this species. 4. Texos Indigo Snoke - This snoke m	y potentially occur in the project	index	1101124-02	
			shall avoid harming or handeling	No Action Required Requir	noitaA be	
*		3. Reticulated Collared Lizard - This li	nd may potentially occur in the	lincludes regionalissues such as Edwards Aquiler D	District, etc.)	
2"		ond should visually inspect		VII. OTHER ENVIRONMENTAL ISSUES		
		2. Texas Tortoise -The Contractor sh				
2.		1. Texas Horned Lizard - The Confrac		3.		
7			-1, the second bigger like to	2.		
		.oM noiloA				
ond post-project TSS.		No Action Required	Maguired Action	T.		
and check Best Management Practices planned to control erasion,		the section of P	acital basines [7]	Action No.		
Required Actions: List waters of the US permit applies to, location	project					
		AND MICRATORY BIRDS.		☐ No Action Required ☐ Requir	noiloA ber	
Other Nationwide Permit Required: NWP*		CRITICAL HABITAT, STATE LIS	ED SPECIES, CANDIDATE SPECIES	on site. Hozordous Moterials or Contamination Issues :	Specific to this Project:	
Individual 4.04 Permit Required		V. FEDERAL LISTED, PROPOSED 1	IREATENED, ENDANGERED SPECIES,	Any other evidence indicating possible hazardous male		
☐ Notionwide Permit 14 - PCN Required (1/10 to <1/2 ocre, 1/3	n (idal waters)			:	retuine suppleance out elopa	
:				octivities and/or demolition with careful coordination by		
wellonds offected)				In either case, the Contractor is responsible for provide		
☐ Notionwide Permit 14 - PCN not Required (less than 1/10th or	e waters or	Y		scheduled demolition.		
De nit Bequired		3.		If "No", then TxDOT is still required to notify DSHS 15	working days prior to any	
		_		15 working days prior to scheduled demolition.		
the following permit(s):		2.		octivities as necessory. The notification form to DSF	45 must be postmorked of least	
The Contractor must adhere to all of the terms and conditions a	djiw bejoioos			the notification, develop abatement/mitigation procedu		
water bodies, rivers, creeks, streams, wetlands or wet areas.		1		If "Yes", then Tx00T must retain a DSHS licensed as	spestos consultant to assist with	
USACE Permit required for filling, dredging, excovating or other w	k in any	Action No.		ON [] SOA [
ACT SECTIONS 401 AND 404		14 00,104		Are the results of the asbestos inspection positive tis	a ospesios presentia	
WORK IN OR NEAR STREAMS, WATERBODIES AND WETL	NDS CLEAN WATER	Mo Action Required	Required Action	If "Yes", then TxDOT is responsible for completing as		
	022.111 1173 10 3011			If "No", then no further oction is required.	it-sessit toemsesses solzed	
area to 5 ocres or more, submit NOI to TCEQ and the Enginee		invosive species, beneficial landscapir	, and tree/brush removal commitments.			
4. When Controctor project specific locotions (PSL's) increose dist	ped soil	ni S27,127,027,308,561,591,481	der to comply with requirements for	replacements (bridge class structures not including bo	2/63 104/00 00	
the site, occessible to the public and TCEQ, EPA or other insp	.2 107		ion Specilication Requirements Specs 162,	Does the project involve ony bridge closs structure in		
3. Post Construction Site Notice (CSN) with SW3P information on a	neor	Preserve native vegetation to the	tent proctical.	Evidence of leaching or seepage of substances		
		IV. VECETATION RESOURCES		 Undesirable smells or odors 		
required by the Engineer.				Dead or distressed vegetation (not identified as not Trash piles, drums, conister, borrels, etc.	4000	
2. Comply with the SW3P and revise when necessary to control po	o ooite			Contoct the Engineer if ony of the following ore detected:		
occordance with TPDES Permit TXR 150000						
1. Prevent stormwater pollution by controlling erosion and sediment	ni noi:	2.		of all product spills.	deven	
Action No.				in accordance with sale work practices, and contact the pr immediately. The Contractor shall be responsible for the pr		
etal .				In the event of a spill, take actions to mitigate the spill as		
No Action Required X Required Action		,		Mointoin on adequate supply of on-site spill response make		
2.		١		products which may be hazardous. Maintain product labellin		
		.oM noitaA		compounds or additives. Provide protected storage, off ba		
T .				used on the project, which may include, but are not limited Paints, acids, solvents, asphalt products, chemical additives,		
They may need to be notified prior to construction activities.		Mo Action Required	noitoA benined Motion	Obtain and keep on-site Material Satety Data Sheets (MSD		
List MS4 Operator(s) that may receive discharges from this proje	n		.,	provided with personal protective equipment appropriate for		
item 506.		or cheological at lifacts (bones, burnt work in the immediate area and cor		making workers aware of potential hazards in the workplace		
disturbed soilmust protect for erosion and sedimentation in accord	diw acc	orcheological artifacts are found dur		hozordous materials by conducting safety meetings prior		
required for projects with 1 or more ocres disturbed soil. Projects	with any	Refer to TxDOT Standard Specifical		Comply with the Hazard Communication Act (the Act) for		
TPDES TXR 150000: Stormwater Discharge Permit or Construction	Jim 19 Permit			General (applies to all projects):		
Tanki and description of the second of the s			1	VI. HAZARDOUS MATERIALS OR CONTAMINATION	22022	
STORMWATER POLLUTION PREVENTION-CLEAN WATER A	T - SECTION -402	III. CULTURAL RESOURCES			ICCI IEC	