

Project Number: RMC 6475-49-001	Control: 6475-49-001
County: POLK	Highway: US 59, ETC.

## **GENERAL NOTES:**

**Project Description:** This project consists of performing tree trimming and brush removal on various roads and channels in the Polk County Maintenance Section. This project also consists of removing trees as directed.

**TXDOT PROJECT SUPERVISOR:** All work on this contract will be scheduled and directed by the Maintenance Section Supervisor(s) listed below. Payment will be made monthly for work completed and accepted according to specifications. All payment requests should be directed to the Maintenance Section Supervisor(s) listed below.

<u>COUNTY</u>	SUPERVISOR	ADDRESS	CONTACT #
Polk	James Henagan	3161 US 59 Livingston, TX	(936) 327-8914

**CONTRACT PROSECUTION:** Each contract awarded by the Department stands on its own and, as such, is separate from other contracts. A Contractor awarded multiple contracts must be capable and sufficiently staffed to concurrently process any or all contracts at the same time.

Existing regulatory, warning and guide signs within project limits are to always remain visible to the traveling public. If a sign must be repositioned during construction operations, move and install the sign to an approved location. Use care when working near existing signs and repair or replace signs damaged by work operations. All work involved repositioning existing signs will be subsidiary to various bid items.

There is a potential for work to be done in environmentally sensitive areas within these maintenance sections. All work shall be performed as directed by the appropriate Maintenance Section Supervisor to avoid impacts to these areas.

Furnish materials and make repairs to the existing roadway and right-of-way at any location damaged by construction operations. This work shall be done in an approved manner and will be subsidiary to various bid items.

Minimize vehicles and equipment in construction areas to lessen the impact on existing vegetation. The intent of the plans is to prepare only that portion of TxDOT right-of-way necessary for construction.

Always provide suitable access to adjacent businesses, private property, and side roads. Remove dirt, silt, rocks, debris and other foreign matter that accumulates in structures due to the Contractor's operations as directed. Keep stream channels always open. This work will not be paid for directly but will be subsidiary to pertinent items.

All workers on TxDOT right-of-way shall wear reflective clothing meeting ANSI Class II requirements during the day and ANSI Class III requirements during the night. Only workers actively engaged in the operation of a chainsaw, clipper, or similar device shall be exempt from wearing safety vests. Non-compliance with any of these requirements shall be grounds for suspension of work.

Project Number: RMC 6475-49-001

County: POLK

Control: 6475-49-001

Highway: US 59, ETC.

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

 Preslie Gerland
 Lauren.Perry@TxDOT.gov

 Tamara Gibson
 Tamara.Gibson@TxDOT.gov

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

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

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

The Letting Pre-Bid Q&A web page for each project can be accessed by using the dashboard to navigate to the project you are interested in by scrolling or filtering the dashboard using the controls on the left. Hover over the blue hyperlink for the project you want to view the Q&A for and click on the link in the window that pops up.

## Item 2: Instructions to Bidders

View plans on-line or download from the web at: http://www.txdot.gov/business/contractors\_consultants/plans\_online.htm

Order plans from any of the plan reproduction companies shown on the web at: http://www.dot.state.tx.us/business/contractors\_consultants/repro\_companies.htm

# Item 7: Legal Relations and Responsibilities

Dispose of all vegetative matter and any other materials removed from State Right of Way in accordance with applicable environmental laws, rules, regulations, and requirements.

Contractor to repair or replace in kind, at their own expense, any historic materials damaged (buildings, historical markers, etc.) in the course of executing work. Contractor is responsible for locating replacement source for historical materials damaged in the course of the work. TxDOT-Environmental Affairs Division is to be informed of proposed repairs to facilitate consultation with Texas Historical Commission prior to the execution of repairs.

To maintain compliance with Chapter 64 of the Texas Parks and Wildlife Code and Migratory Bird Treaty Act (MBTA), construction activities that may affect nests (i.e. tree removal, tree limbing, bridge work) shall be conducted outside of the nesting season (March 15 to September 15). In the event birds or active nests (eggs and/or nestlings present) are encountered, contact the engineer prior to conducting work.

 Project Number: RMC 6475-49-001
 Control: 6475-49-001

 County: POLK
 Highway: US 59, ETC.

1. Texas Trailing Phlox (federally listed endangered species-plant) is present within the ROW along Farm-to-Market Road (FM) 1276 in the Polk County Maintenance Section. Below are the following roadway limits and actions required:

- FM 1276: From 5.0 miles South of US 190 to 7.0 miles South of US 190.

A. Before tree and brush removal or tree trimming may take place within the roadway limits above, approval shall be obtained from the Lufkin District ENV and Maintenance Engineer.

2. Portions of FM 1276, FM 943, and FM 2610 are adjacent to Big Thicket National Preserve (BITH). Below are the following roadway limits within BITH and actions required:

- FM 2610: From 0.25 mi. North of Menard Creek to 0.14 mi. South of Menard Creek.

FM 1276: From the intersection of FM 943 to 0.73 mi. North of intersection of FM 943.
FM 943: From 0.37 mi. West of Menard Creek to 0.30 mi. East of Menard Creek, from 0.36 mi. East of Segno Fire Lane Rd. to 0.54 mi. East of Segno Fire Lane Rd, from 1.18 mi. Northwest of FM 1276 intersection to 0.23 mi. Southeast of FM 1276 intersection, from Hardin County Line to 2.32 mi. Northwest of Hardin County Line, and from 0.31 mi. Southeast of Wiggins Loop Rd. to 2.01 mi. Southeast of Wiggins Loop Rd.

B. No trees along these roadway limits above are to be cut or otherwise damaged without prior approval from BITH and Maintenance Engineer.

C. Maintenance Section Supervisor shall notify BITH prior to working within these roadway limits listed above.

D. No stockpiling or storage of materials and equipment within these roadway limits listed above.

E. Do not fell trees within BITH boundary without prior approval from BITH and Maintenance

Engineer. Timber cut within the BITH boundary remains the property of the BITH and may require measured lengths to be cut or for trees to be felled entirely onto BITH land.

## **Item 8: Prosecution and Progress**

Contract Time – The number of working days for this project shall be 365 days or until contract funds are expended.

For this project, working days will be computed and charged in accordance with Item 8, Section 3.1.5, "Calendar Days".

Contractor shall be on site within 48 hours for emergency work, and within <u>five business days</u> for regular callout work orders, unless otherwise agreed upon with the Engineer.

This contract includes callout work; the number of working days will be established in each work order.

Project Number: RMC 6475-49-001

County: POLK

Highway: US 59, ETC.

The Engineer will specify the number of working days granted for each work order based on a percentage of the dollar amount of the work order versus the total dollar amount of the contract or based on typical production rates for the work ordered.

The Contractor shall be on site within 48 hours for emergency work orders or within <u>five</u> <u>business days</u> for regular work orders.

Verbal notification may be given for the work orders above; however, written notification will be delivered electronically following the verbal notification. Written notification will state the date of verbal approval to begin work.

Notify the Engineer at least 24 hours before proceeding with planned work activities to the requesting Maintenance Section or appropriate contact person. Any work performed without proper notification will not be eligible for payment.

Perform work only as directed by a work order. Any work performed at locations not covered by a work order will not be paid for, unless directly authorized.

In accordance with Article 8.6 "Failure to Complete the Work on Time", liquidated damages will be charged for failure to complete each work order in the specified number of days. The Work Order Liquidated Damage amount to be assessed per day, until the work is completed will be 1% of the estimated cost of the Work Order, but not less than \$250 per day and not to exceed \$1,000 per day.

## **ITEM 9: MEASUREMENT AND PAYMENT**

This Contract includes callout work. In accordance with Article 9.2., "Plans Quantity Measurement", plans quantity measurement requirements are not applicable. The quantities shown are for estimates only and payment will be based on the actual quantities placed.

**NONCOMPLIANCE PENALTY** – A penalty will be assessed for each instance the contractor is in noncompliance. A noncompliance instance is defined by the following:

- 1. The contractor fails to begin work at the specified time and/or location(s).
- 2. The contractor does not have all the personnel and pieces of equipment necessary to fulfill of the item(s) called out at the specified time and/or location(s).
- 3. The contractor does not complete the work continuously, unless approved by the Engineer.
- 4. The contractor fails to complete any requirements as stated in the general notes.

The Noncompliance Penalty will be deducted from any money due or to become due for any completed item(s) of work. The Noncompliance Penalty will be assessed as follows: \$250 per instance, per location, until the contractor returns to a state of compliance or otherwise approved by the engineer.

Project Number: RMC 6475-49-001	<b>Control:</b> 6475-49-001
County: POLK	Highway: US 59, ETC.

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

Ensure the Contractor's Responsible Person (CRP) or their alternate for Barricades, Signs and Traffic Handling is always available and able to receive instructions from the Engineer or authorized Department representative. The CRP shall be a person that is usually at the project site during normal working hours.

For protection of the traveling public, direct traffic through the work area using signs, flaggers and other devices. Required signs are shown in the plans on the Barricade and Construction Standards and Traffic Control Plan Sheets. The latest edition of the "Texas Manual on Uniform Traffic Control Devices" shall also be used as a guide for handling traffic on this project.

Use "Do Not Pass" (R4-1) signs to mark the beginnings of roadway sections where passing is prohibited and use "Pass With Care" (R4-2) signs to mark the beginnings of roadway sections where passing is permitted. Install signs at the time signing for project limits are erected. Sign placement shall be verified and approved.

When pavement work begins, use flashing arrow panels and flaggers 24 hr. per day during inclement weather or as directed.

Install "No Center Line" (CW8-12) and "Loose Gravel" (CW8-7) signs at 2-mile intervals prior to the start of surface treatment operations.

Restrict construction work to single lane widths with only minor disruptions in traffic flow. Lane closures shall conform to the Traffic Control Plan for lane closures as shown in the plans. No overnight closures will be permitted.

Limit lane closures for multilane roads (4 or more lanes) to 2 mi. in length, unless otherwise approved.

Limit lane closures for 2 lane roads to 1 mi. in length, unless otherwise approved.

Lane closure lengths can exclude the end tapers.

Plan the sequence of work to minimize the time lane closures are in place. Install lane closures only where construction operations are anticipated to start within 1 hr. and limited to the amount of lane that can be reached by the construction activity within 2 hr. unless otherwise approved.

Provide channelizing devices to restrict traffic from traveling on the shoulders.

Provide flashing arrow panels to supplement required signs and devices for lane closures.

Provide temporary rumble strips as shown on work zone rumble strip standards. Temporary rumble strips shall be a product listed on the Compliant Work Zone Traffic Control Devices and shall be a two-piece rumble strip that hinges in the middle.

Provide a pilot car to lead traffic through the work area. The pilot car will not be paid for directly but will be subsidiary to various bid items.

Project Number: RMC 6475-49-001

County: POLK

Halt traffic during the time asphalt is being applied to the roadway. No vehicles will be allowed to pass the asphalt distributor during asphalt application.

Provide adequate flaggers to protect the traveling public when working on or near a roadway carrying traffic.

Install "Be Prepared to Stop" (CW3-4) and "Flagger Ahead" (CW20-7aD) signs when flaggers are present. Position the signs where good visibility and traffic control can be maintained.

Use a flashing arrow board in addition to the required signs to warn motorists of flaggers.

Use additional flaggers at roadway intersections to direct traffic entering the work area, when deemed necessary by the Engineer.

Open all traffic lanes to traffic at the close of work each day.

Install "Pavement Ends" (CW8-3) sign where the paved surface of the road ends. Use flashing arrow panels to supplement these signs during nighttime hours.

Provide one high-intensity yellow, rotating dome-light on all equipment such as distributors, spreader boxes, lay-down machines, dump trucks, rollers, backhoes, road graders, loaders, etc. within the work zone. Mount lights high enough to be visible from all directions and operating when the equipment is in the work zone. On all other equipment such as automobiles, trailers, etc. use emergency flashers while within the work zone.

Install vertical panels or drums at 100-ft. spacings where drop-offs or construction work occurs along edges of existing pavement. Unless otherwise authorized, these shall remain in place until final striping.

Restrict construction operations so that no drop off along the edge of pavement will remain overnight.

All blading, rolling and scraper work to construct and remove temporary slopes adjacent to pavement drop-offs, will be considered subsidiary to various bid items.

Notify the Engineer prior to placing any materials or equipment on the right of way. Locate equipment, stockpiles, or other materials not in use as far as possible from the driving lanes and in no case closer than 30 ft. unless otherwise authorized. Any equipment, stockpiles, or materials placed within 30 ft. of the driving lane must have adequate signs, barricades or other warning devices as approved. As a minimum place an 8 ft. wide TY III Barricade or barrels on the approach side of each site that is within 30 ft. of the driving lane. Use TY III Barricade or barrels for the site similarly on the departure side if the location is within 30 ft. of the opposing traffic lane.

Law enforcement assistance may be required for this project and is expected to be required for major traffic control changes and lane closures. Coordinate with local law enforcement and arrange for law enforcement as directed or agreed by the Engineer.

Project Number: RMC 6475-49-001	<b>Control:</b> 6475-49-001	Project Number: RMC 6475-49-001	Control: 6475-49-001		
County: POLK	Highway: US 59, ETC.	County: POLK	Highway: US 59, ETC.		
Complete the daily tracking form provided by the dep		Item 752: Tree and Brush Removal			
with the tracking form for payment at the end of each	month approved services were provided.	All work, except emergency work, is to be completed	All work, except emergency work, is to be completed between September 15th and March 15th to		

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

Texas Transportation Code 547.105 authorizes the use of warning lights to promote safety and provides an effective means of gaining the travelling public's attention as they drive in areas where construction crews are present. To influence the public to move over when high risk construction activities are taking place, minimize the utilization of blue warning lights. These lights must be used only while performing work on or near the travel lanes or shoulder where the travelling public encounters construction crews that are not protected by a standard work zone set up such as a lane closure, shoulder closure, or one-way traffic control. Refrain from leaving the warning lights engaged while travelling from one work location to another or while parked on the right of way away from the pavement or a work zone.

Temporary stop lines as shown on TCP (2-2)-18 may be omitted as directed by the engineer.

Provide an illuminated flagger station when nighttime work is performed.

All personnel on TxDOT right of way shall wear reflective clothing meeting ANSI Class II requirements during the day and ANSI Class III requirements during the night.

## Item 505: Truck Mounted Attenuator (TMA) and Trailer Attenuator (TA)

The contractor will be responsible for determining if multiple stationary operations will be ongoing at the same time to determine the total number of TMAs needed for the project.

Quantities were estimated based on one mobile working operation, as per the number of working days. If multiple crews are utilized, additional TMAs will be required.

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

## Item 506 Erosion, Sedimentation, and ENV controls:

The proposed work of this project is the removal and trimming of trees and brush at various roadways within the Polk County Maintenance Section that are hazardous, dying, or protruding into State right-of-way. This activity maintains the original line and grade, hydraulic capacity, and original purpose of the site. Therefore, this project meets the definition of a routine maintenance activity as defined in the TPDES General Permit No. TXR150000 effective March 5, 2023, and TCEQ's TPDES CGP does not apply.

# General Notes

to ensure compliance with the Migratory Bird Treaty Act (MBTA). Emergency work is any work required to eliminate a potential hazard(s) to the traveling public or from causing property damage.

The Contractor shall become knowledgeable of the location of utilities within the right-of-way and shall use care when working near them.

The Contractor shall be responsible for contacting all utility companies and locating all underground utilities prior to stump grinding and/or other excavating. The Contractor shall use care when working near these utilities so as not to damage them.

Trees to be removed shall be marked by the State with a red, white or orange "X", painted on the trunk.

Remove trees as designated. After the removal of the designated trees, the Contractor may move out, and the remaining tree removal for this contract will be used on an as needed basis. The Engineer will send the Contractor written notification requiring him to move in and begin tree removal each time there are a minimum of 10 trees to be removed and mobilization will be paid for on a callout basis. After completion of the required tree removal the Contractor may again move out, and this procedure will continue for the duration of the contract.

Pick up and remove or chip/mulch all trees and limbs felled from right-of-way on the same day. unless otherwise approved.

If the trees and limbs are chipped/mulch, the chips must be spread evenly near the ROW line (typically the wood line on the back slope of the ditch). Do not place chips in the ditch line. In areas with driveways or cross culvert, consult the Engineer prior to chipping for an approved location.

Remove trees that are already down in the right-of-way. Cut and measure trees that have fallen from private property at the right-of-way line. These trees will be paid for in the same manner as trees that are to be felled and removed.

Grind all limbs and protruding roots. Grind all stumps to a depth of 12 inches below the ground level. Backfill any resulting holes to the level of the surrounding ground. If, in the opinion of the Engineer, stumps on back slope cannot be ground, trees shall be cut flush with surrounding ground line.

Remove a tree in increments when cutting the trees at ground level may endanger overhead utility lines or damage private property.

Removal of brush, limbs, debris, and trees less than 4 inches in diameter are considered brush and will be subsidiary to Item 752.

General Notes

The Contractor will be required to furnish materials and make repairs to the existing roadway and right-of-way, including rutting, at any location damaged by the Contractor's operations. This work shall be done in a manner satisfactory to the Engineer and will be considered subsidiary to

right-of-way line.

various bid items.

Project Number: RMC 6475-49-001	<b>Control:</b> 6475-49-001	Project Number: RMC 6475-49-001	Control: 6475-49-001
County: POLK	Highway: US 59, ETC.	County: POLK	Highway: US 59, ETC.
Trees that have fallen onto the right-of-way from private property will b	e cut and measured at the		

General Notes

# **Estimate & Quantity Sheet**



CONTROLLING PROJECT ID 6475-49-001 DISTRICT Lufkin HIGHWAY US0059 COUNTY Polk

		CONTROL SECTIO	N ЈОВ	6475-4	9-001		
		PROJE	CT ID	A00212576 Polk US0059			TOTAL FINAL
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		HIG	HWAY				1 INVAL
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	500-7002	MOBILIZATION (CALLOUT)	EA	5.000		5.000	
	505-7001	TMA (STATIONARY)	DAY	12.000		12.000	
	752-7001	TREE TRIMMING / BRUSH REMOVAL	MI	MI 10.000		10.000	
	752-7003	TREE TRIMMING / BRUSH REMOVAL(CHANNELS)	AC	1.000		1.000	
	752 <b>-</b> 7005	TREE REMOVAL (4" - 12" DIA)	EA	1,000.000	1,000.000		
	752 <b>-</b> 7006	TREE REMOVAL (12" - 18" DJA)	EA	150.000		150.000	
	752 <b>-</b> 7007	TREE REMOVAL (18" - 24" DJA)	EA	110.000		110.000	
	752-7008	TREE REMOVAL (24" - 30" DIA)	EA	60.000		60.000	
	752-7009	TREE REMOVAL (30" - 36" DIA)	EA	20.000		20.000	
	752-7010	TREE REMOVAL (36" - 42" DIA)	EA	10.000		10.000	
	752-7011	TREE REMOVAL (42" - 48" DIA)	EA	5.000		5.000	
	752-7012	TREE REMOVAL (48" - 60" DIA)	EA	5.000		5.000	



DISTRICT	COUNTY	CCSJ	SHEET
Lufkin	Polk	6475-49-001	3

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SUMMARY OF TREE REMOVAL ITEMS										
ITEM NO.	0752 7001	0752-7003	0752 7005	0752 6006	0752 7007	0752 7008	0752 7009	0752 7010	0752 7011	0752 7012
LOCATION	TREE TRIMMING/ BRUSH REMOVAL	TREE TRIMMING/ BRUSH REMOVAL (CHANNELS)	TREE REMOVAL (4"-12" DIA)	TREE REMOVAL (12"-18" DIA)	TREE REMOVAL (18"-24" DIA)	TREE REMOVAL (24"-30"DIA)	TREE REMOVAL (30"-36" DIA)	TREE REMOVAL (36"-42" DIA)	TREE REMOVAL (42"-48" DIA)	TREE REMOVAL (48"-60" DIA)
	мі	AC	EA	EA	EA	EA	EA	EA	EA	EA
VARIOUS	10	1	1,000	150	110	60	20	10	5	5

SUMMARY OF TRAFFIC CONTROL ITEMS				
	*ITEM NO. 505 7001			
LOCATION	TMA (STATIONARY)			
	DAY			
VARIOUS 12				
VARIOUS	12			

\* USE TN WHEN REQUIRED TO DO SO AS OUTLINED BY TCP ST

QUANTITY SUMMARIES

2024 Te	exas D	Department o	f Tran	sportation
CONT	SECT	JOB	ł	HIGHWAY
6475	49	001	US	59,ETC.
DIST		COUNTY		SHEET NO

POLK

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NOTE: ALL QUANTITIES ARE AN ESTIMATE AND SHALL BE VERIFIED IN THE FIELD PRIOR TO BEGINNING OF WORK. NO GUARANTEES ARE MADE AS TO THE AMOUNT OF WORK WHICH WILL BE PERFORMED AT EACH LOCATION.

DSGLMARER. The use of this stondard is governed by the "Tenas Engineering Practice AET". No serviculty of ony aired is and by 1.4000 for ony publications. TabOD dissume no responsibly for the conversion of USPA-AUGRAPH Politier (PartNet), 47(16)(25502:25), 25041 or dissonance resulting from its use.

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DATE: 10/1

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

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

#### WORKER SAFETY NOTES:

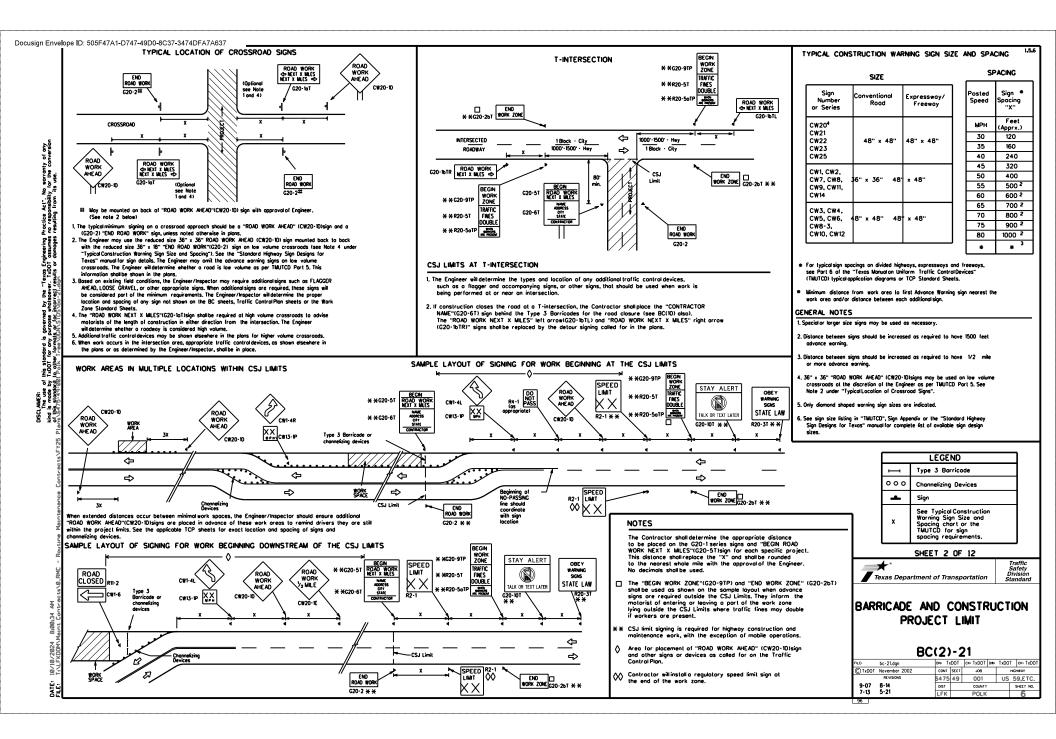
- Workers on foot who are exposed to traffic or to construction equipment within the right-of-way shall wear high-visibility safety apparel meeting the requirements of ISEA "American National Standard for high-Visibility Apparel," or equivalent revisions, and labeled as ANSI 107-2004 standard performance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

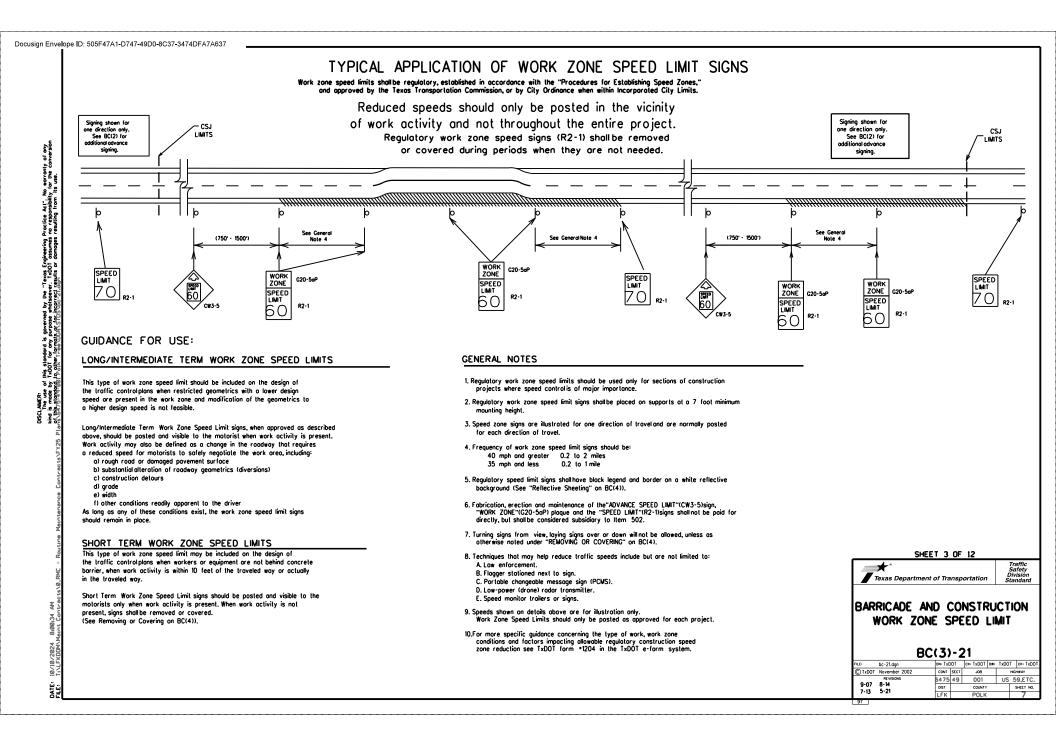
### COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

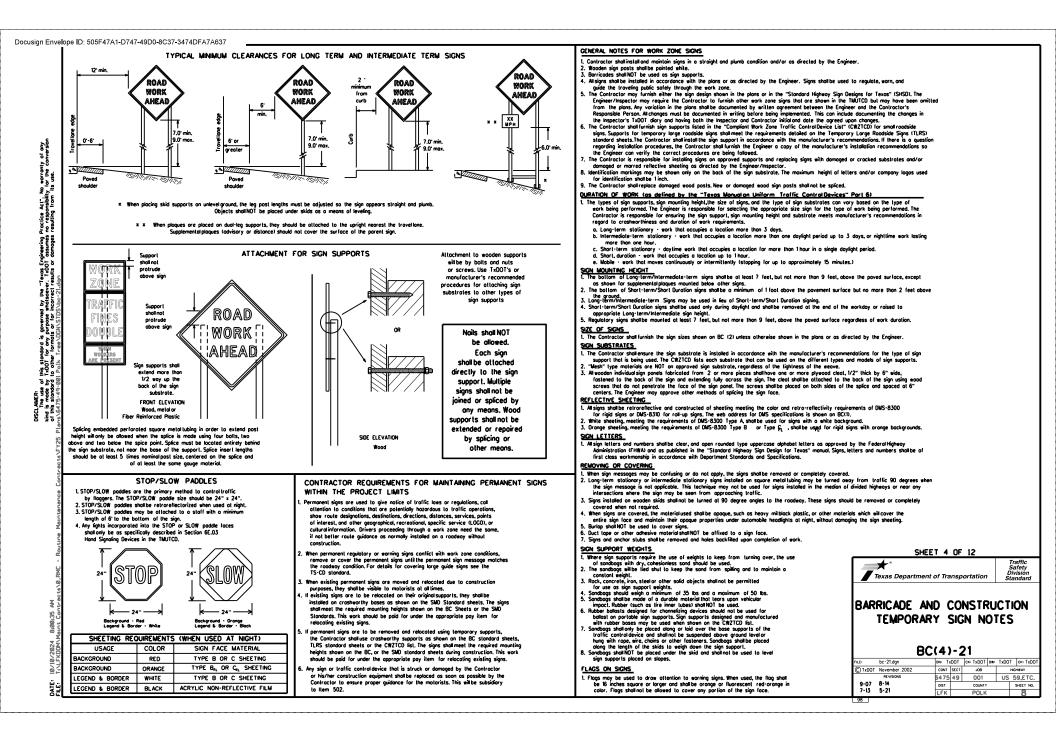
- Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources.
- Work zone traffic control devices shall be compliant with the Manual for Assessing safety Hardware (MASH).

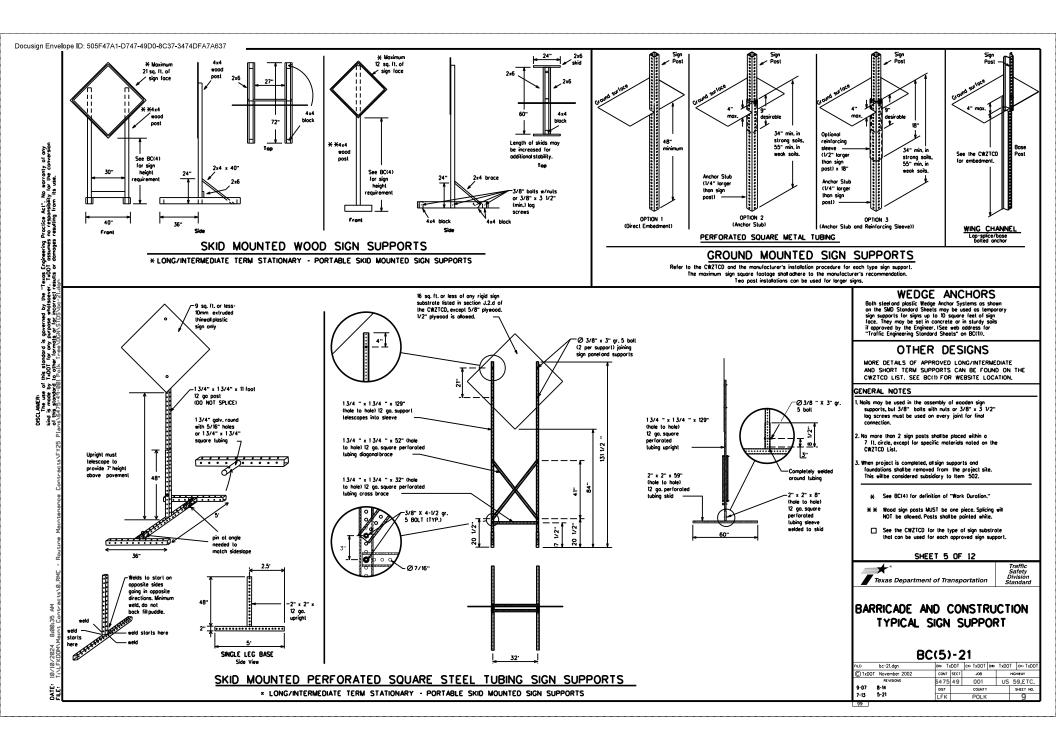
	THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT http://www.txdot.gov
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	COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST (CWZTCD)
	DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS)
	MATERIAL PRODUCER LIST (MPL)
	ROADWAY DESIGN MANUAL - SEE "MANUALS (ONLINE MANUALS)"
	STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD)
	TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD)
	TRAFFIC ENGINEERING STANDARD SHEETS
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SHEET 1 OF 12											
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BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS BC(1)-21											
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#### PORTABLE CHANGEABLE MESSAGE SIGNS

- 1. The Engineer/Inspector shall approve all messages used on portable
- changeable message signs (PCMS). 2. Messages on PCMS should contain no more than 8 words (about four to eight characters per word), not including simple words such as "TO," "FOR," "AT," etc.
- Hessages should consist of a single phase, or two phases that alternate. Three-phase messages are not allowed. Each phase of the
- message should convey a single thought, and must be understood by 4. Use the word "EXIT" to refer to an exit ramp on a freeway; i.e.,
- "EXIT CLOSED." Do not use the term "RAMP." 5. Alwoys use the route or interstate designation (IH, US, SH, FM)
- along with the number when referring to a roadway. 6. When in use, the bottom of a stationary PCMS message panel should be
- o minimum 7 (set above the roadway, where possible. 7. The message term "WEEKEND" should be used only if the work is to stort on Salurday morning and end by Sunday evening at midnight. Actualdays and hours of work should be displayed on the PCMS if work
- activity and nous of error should be displayed on the Fuels in more is to begin on Friday evening and/or continue into Manday morning.
  8. The Engineer/Inspector may select one of two options which are avail-able for displaying a two-phase message on a PCMS. Each phase may be displayed for either four seconds each or for three seconds each.
- Do not "flash" messages or words included in a message. The message should be steady burn or continuous while displayed.
- 10. Do not present redundant information on a two-phase message; i.e.
- keeping two lines of the message the same and changing the third line.
- Receiping the mess on the message that the state of the s 13. Do not display messages that scrollhorizontally or vertically across
- the lace of the sign. 14. The following table lists abbreviated words and two-word phrases that
- ore acceptable for use on a PCWS. Both words in a phrase must be displayed together. Words or phrases not on this list should not be obbreviated, unless shown in the TMUTCD.
- PCMS character height should be at least 18 inches for trailer mounted units. They should be visible from at least 1/2 (.5) mile and the text units. They should be visible from al least 1/2 (1.5) mile and the text should be leagble from all least 600 feet to right and 800 feet in doryight. Truck mounted units must have a character height of 10 inches and must be legible from al least 400 feet. 16. Each line of leat should be centered on the message board rother than

- No. com me or text should be centered on the message board rainer man left or right justified.
  17. If disobled, the PCMS should default to an illegible display that will not alorm motorists and willonly be used to dert workers that the PCMS has malfunctioned. A pottern such as a series of horizontal solid bars is appropriate.

Access Road A	CCS RD	Najor MAJ	
Alternate	ALT	Miles	MI
Avenue	AVE	Miles Per Hour	MPH
Best Route	BEST RTE	Minor	MNR
Boulevard	BLVD	Monday	MON
Bridge	BRDG	Normal	NORM
Cannot	CANT	North	N
Center	CTR	Nor thbound	(route)
Construction	CONST AND	Parking	PKING
Ahead		Rood	RD
CROSSING	XING	Right Lone	RTLN
Detour Route	DETOUR RTE	Saturday	SAT
Do Not	DONT	Service Rood	SERV RD
East	E	Shoulder	SHLDR
Eastbound	(route) E	Slippery	SLIP
Emergency	EMER	South	S
Emergency Vehicle		Southbound	(route)
Entrance, Enter	ENT	Speed	SPD
Express Lone	EXP LN	Street	ST
Expressway	EXPRY	Sunday	SUN
XXXX Feet	XXXX FT	Telephone	PHONE
Fog Ahead	FOC AHD	Temporary	TEMP
Freeway	FRWY, FWY	Thur sday	THURS
Freewoy Blocked	FWY BLKD	To Downtown	TO DWNTN
Friday	FRI	Traffic	TRAF
Hozordous Driving		Travelers	TRVLRS
Hozordous Moterial		Tuesday	TUES
High Occupancy	HOV	Time Minutes	TIME MIN
Vehicle	HEY	Upper Level	UPR LEVE
Highway		Vehicles (s)	VEH, VEHS
Hour (s)	HR, HRS	Warning	WARN
Information	INFO	Wednesday	WED
†  8	115	Weight Limit	WT LIMIT
Junction	JCT	Test	
Left	LFT	Westbound	(route)
Left Lone	LFT LN	Wet Pavement	WET PVMT
Lone Closed	LN CLOSED	Will Not	WONT
Lower Level	LWR LEVEL		1 10101
Maintenance	MAINT		

RECOMME	ENDED	PHASES	AND	FORMATS	FOR	PCMS	MESSAGES	DURING	ROADWORK	ACTIVITIES
		(The Engineer	may app	rove other messo	iges not	specifically	covered here.)			

Phase 1: Condition Lists Road/Lane/Ramp Closure List Other Condition List FREEWAY FRONTAGE ROADWORK ROAD REPAIRS CLOSED ROAD XXX FT X MILE CLOSED XXXX FT ROAD SHOULDER FL AGGER I ANF CLOSED NARROWS CLOSED XXXX FT AT SH XXX XXX FT XXXX FT RIGHT LN ROAD RIGHT IN TWO-WAY CLSD AT CLOSED NARROWS TRAFFIC FM XXXX XXX FT XXXX FT XX MILE RIGHT X RIGHT X MERGING CONST LANES LANES TRAFFIC TRAFFIC XXXX FT XXX FT CLOSED. OPEN CENTER DAYTIME LOOSE UNEVEN I ANF I ANF GRAVEL LANES CLOSURES XXXX FT CLOSED XXXX FT NIGHT I-XX SOUTH DETOUR ROUGH I ANF FXIT X MILE ROAD CLOSED CLOSURES. XXXX FT VARIOUS EXIT XXX ROADWORK ROADWORK LANES CLOSED PAST NEXT CLOSED X MILE SH XXXX FRI-SUN EXIT RIGHT LN BUMP US XXX CLOSED TO BE XXXX FT EXIT CLOSED X MILES MALL X LANES TRAFFIC LANES DRIVEWAY CLOSED SIGNAL SHIF T CLOSED TUE - FRI XXXX FT XXXXXXXX BLVD \* LANES SHIFT in Phose 1 must be used with STAY IN LANE in Phose 2. CLOSED

APPLICATION GUIDELINES

Phose Lists"

1. Only 1 or 2 phases are to be used on a PCMS. Lumy for 2 phoses are to be used on a Pues. 2. The stylphose for both should be selected from the "Rood/Lone/Romp Closure List" and the "Other Condition List". 3. A 2nd phose can be selected from the "Action to Take/Effect an Travel, Location, Genera Warning, or Advance Notice

and should be understandable by themselves.

4. A Location Phase is necessary only if a distance or location is not included in the first phase selected.
 If two PCMS are used in sequence, they must be separated by a minimum of 1000 (1, Each PCMS shallbe limited to two phases,

6. For advance notice, when the current date is within seven days

of the actual work date, calendar days should be replaced with days of the week. Advance notification should typically be for

on to Take/Eff Li		Location List	Warning List
MERGE RIGHT	FORM X LINES RIGHT		SPEED LIMIT XX MPH
DETOUR NEXT X EXITS	USE XXXXX RD EXIT	BEFORE RAILROAD CROSSING	MAXIMUM SPEED XX MPH
USE EXIT XXX	USE EXIT I-XX NORTH	NEXT X MILES	MINIMUM SPEED XX MPH
STAY ON US XXX SOUTH	USE I-XX E TO I-XX N	PAST US XXX EXIT	ADVISORY SPEED XX MPH
TRUCKS USE US XXX N	WATCH FOR TRUCKS	XXXXXXX TO XXXXXXX	RIGHT L ANE E XIT
WATCH FOR TRUCKS	EXPECT DELAYS	US XXX TO FM XXXX	USE CAUTION
EXPECT DELAYS	PREPARE TO STOP		DRIVE SAFELY
REDUCE SPEED XXX FT	END SHOULDER USE		DRIVE WITH CARE
USE OTHER ROUTES	WATCH FOR WORKERS		
STAY IN LANE X		x x Se	ee Application Guidelines No

Phase 2: Possible Component Lists

\* \* Advance

Notice List

TUE-FRI

XX AM-

X PM

APR XX-

XX

X PM-X AM

BEGINS

MONDAY

BEGINS

MAY XX

MAY X-X

XX PM -

XX AM

NEXT

FRI-SUN

XX AM

то

XX PM

NEXT

TUE

AUG XX

TONIGHT XX PM-

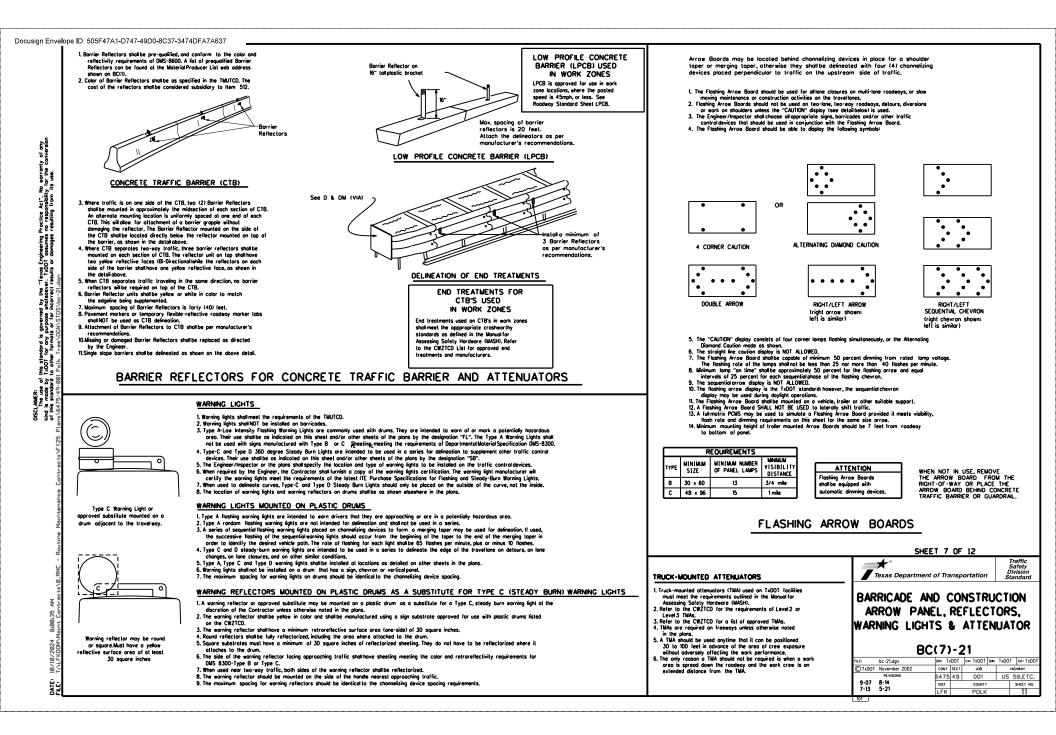
XX AM

WORDING ALTERNATIVES

- 1. The words RIGHT, LEFT and ALL can be interchanged as appropriate. 2. Roadway designations IH, US, SH, FM and LP can be interchanged as
- oppropriate
- 3. EAST, WEST, NORTH and SOUTH (or abbreviations E, W, N and S) can
- be interchanged as appropriate. 4. Highway names and numbers replaced as appropriate. 5. ROAD, HIGHWAY and FREEWAY can be interchanged as needed.
- 6. AHEAD may be used instead of distances if necessary. 7. FT and NI, NILE and NILES interchanged as appropriate. 8. AT, BEFORE and PAST interchanged as needed.

- 9. Distances or AHEAD can be eliminated from the message if a
- location phase is used.

	STREET	31	no more than one week prior to the work.	
	Sunday	SUN		SHEET 6 OF 12
HD	Telephone Temporory	PHONE		Traffic Traffic
FWY	Thursday	THURS	- PCMS SIGNS WITHIN THE R.O.W. SHALL BE BEHIND GUARDRAIL OR	Safety Division
LKD	To Downtown	TO DWNTN	CONCRETE BARRIER OR SHALL HAVE A MINIMUM OF FOUR (4)	Texas Department of Transportation Standard
RIVING	Traffic	TRAF	PLASTIC DRUMS PLACED PERPENDICULAR TO TRAFFIC ON THE	
	Travelers	TRVLRS	UPSTREAM SIDE OF THE PCMS, WHEN EXPOSED TO ONE DIRECTION	
	Tuesday Time Minutes	TUES TIME MIN	OF TRAFFIC WHEN EXPOSED TO TWO WAY TRAFFIC THE FOUR DRUMS	BARRICADE AND CONSTRUCTION
	Upper Level	UPR LEVEL		
	Vehicles (s)	VEH, VEHS	SHOULD BE PLACED WITH ONE DRUM AT EACH OF THE FOUR CORNERS OF THE UNIT.	PORTABLE CHANGEABLE
·	Warning Wednesday	WARN WED		MESSAGE SIGN (PCMS)
	Weight Limit	WT LIWIT	FULL MATRIX PCM'S SIGNS	
	West		1. When Full Matrix PCMS signs are used, the character height and legibility/visibility requirements shall be maintained as listed in Note 15 under "PORTABLE	
	Nestbound	(route) 🕷	CHANGERABLE MESSAGE SIGNS" above. 2. When symbol signs, such as the "Flagger Symbol"(CW20-7) are represented graphically on the Full Matrix PCMS sign and, with the approval of the Engineer, it	BC(6)-21
DSED EVEL	Wet Povement	WET PVWT WONT	2. when symbol signs, such as the "nagger symbol (wa20*7) are represented graphically on the runwath runs sign and, with the opprovalation the tegistry/visibility requirement (steel above.	File: bc-21.dgn DN: TxDOT CK: TxDOT DN: TxDOT CK: TxDOT
VEL			3. When symbol signs are represented graphically on the Full Matrix PCMS, they shall only supplement the use of the static sign represented, and shall not substitute	C TXDOT November 2002 CONT SECT JOB HIGHWAY
			for, or replace that sign.	REVISIONS 5475 49 001 US 59,ETC.
			4. A full motrix PCMS may be used to simulate a flashing array board provided it meets the visibility, flash rate and dimming requirements on BC(7), for the	9-07 8-14 DIST COUNTY SHEET NO.
mber, SH-n	umber, FM-number		some size arrow.	7-13 5-21 LFK POLK 10
				100



#### GENERAL NOTES

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Proclice Act". No worranty of no responsibility for the conve resulting from its use.

the "Texos Engineering I soever. TxDOT assumes rect results or domoges

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this standard is governed T\*DOT for any purpose w to other formats or for in

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AMER: The use of s mode b s stondor

DISCLA DISCLA

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

#### GENERAL DESIGN REQUIREMENTS

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

#### RETROREFLECTIVE SHEETING

- The stripes used on drums shall be constructed of sheeling meeting the color and retroreflectivity requirements of Departmenta Materials Specification DMS-8300, "Sign face Materials." Type 8 or Type B reflective sheeting shall be supplied unless otherwise specified in the planes.
- 2. The sheeting shall be suitable for use on and shall adhere to the drum surface such that, upon vehicular impact, the sheeting shall remain adhered in-place and exhibit no detominating, cracking, or loss of retroreflectivity other than that loss due to abrosion of the sheeting surfore

BALLAST

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

18" min Hondle Too should not 9/16" dia (typ) allow collection for mounting of water or signs and P---debris worning lights 4" mox 4" min 8" mox Each drum shall have 1 (typ) a minimum of 2 arange and 2 white stripes 18" x 24" Sign 12" - 24" using Type A or Type B (Maximum Sign Dimension) Chevron CW1-8, Opposing Traffic Lane Vertical Panel retroreflective mount with diagonals sloping down towards 2" mox sheeting with the top stripe being Ŧ Divider, Driveway sign D70a, Keep Right (lyp.) R4 series or other signs as approved by Engineer travel way orange. Ē 눩 Plywood, Aluminum or Metal sign substrates shall NOT be used on plastic drums Toper to allow for stocking a minimum of 5 See Ballos SIGNS, CHEVRONS, AND VERTICAL PANELS MOUNTED drums Note 3 ON PLASTIC DRUMS Signs used on plastic drums shall be manufactured using substrates listed on the CWZTCD. Chevrons and olher work zone signs with an arange background shallbe manufactured with Type B or Type C Orange, sheeting meeting the color and retroreflectivity requirements of DWS 88300, "Sign Face Material," unless otherwise This detail is not intended for fabrication. See note 3 and the CWZTCD list for providers of approved specified in the plans. **Detectable Pedestrian** 3. Vertical Panels shall be manufactured with arange and while sheeting meeting the requirements of DMS-8300 Type A or Type 8. Diagonal stripes on Vertical Panels shall slope down toward the intended traveled tone. Rorricodes Continuous smooth rail for hand trailing 36' 4. Other sign messages (text or symbolic) may be used as approved by the Engineer. Sign dimensions shall not exceed 18 inches in width or 24 inches in height, except for the R9 series signs discussed in note 8 below. 5. Signs shall be installed using a 1/2 inch bolt (nominal) and nut, two washers, and one locking washer for each connection. Mounting boits and nuts shall be fully engaged and adequately torqued. Balts should not extend more than 1/2 Detectable Edge inch beyond nuts. 7. Chevrons may be placed on drums on the outside of curves. on merging tapers or on shifting tapers. When used in these locations, they may be placed on every drum or spaced not more than on every third drum. A minimum of three (3) 2" Mox should be used at each location called for in the plans, DETECTABLE PEDESTRIAN BARRICADES 8. R9-9, R9-10, R9-11 and R9-11a Sidewalk Closed signs which ULTECTABLE PEDESTRIAN DANKLEADES I. When existing podestrin localities or disrupted, closed, or relocated in a TTC zone, the temporary facilities shaltbe detectable and include accessibility factures consistent with the features present in the existing pedestrian locality. Refer to W20157-2016 Predestrian Control regularements for Sidewalk. Diversions, Sidewalk, Delours and Crossenik Closures. 2. Where pedestrians with visual disclubilities morifound shaltbe closed Sdewalk, o Detectable Pedestrian Barricode shaltbe of a Type 3 Barricode. 3. Detectable pedestrian barricodes similar to the one pictured doove, noncludide channeling davies, some concrete ore 24 inches wide may be mounted on plastic drums, with opproval of the Engineer. SHEET 8 OF 12 \* Texas Department of Transportation above, longitudinal channelizing devices, some concrete barriers, and wood or chain link fencing with a continuous detectable edging can satisfactorily d eate a pedestrian BARRICADE AND CONSTRUCTION

Traffic Safety Division Standard

HIGHWAY

SHEET NO. 12

CHANNELIZING DEVICES

BC(8)-21

DIST

LEK

CONT SECT

bc-21.don

CTxDOT November 2002

4-03 8-14 9-07 5-21 7-13

DN: TxDOT CK: TxDOT DW: TxDOT CK: TxDOT

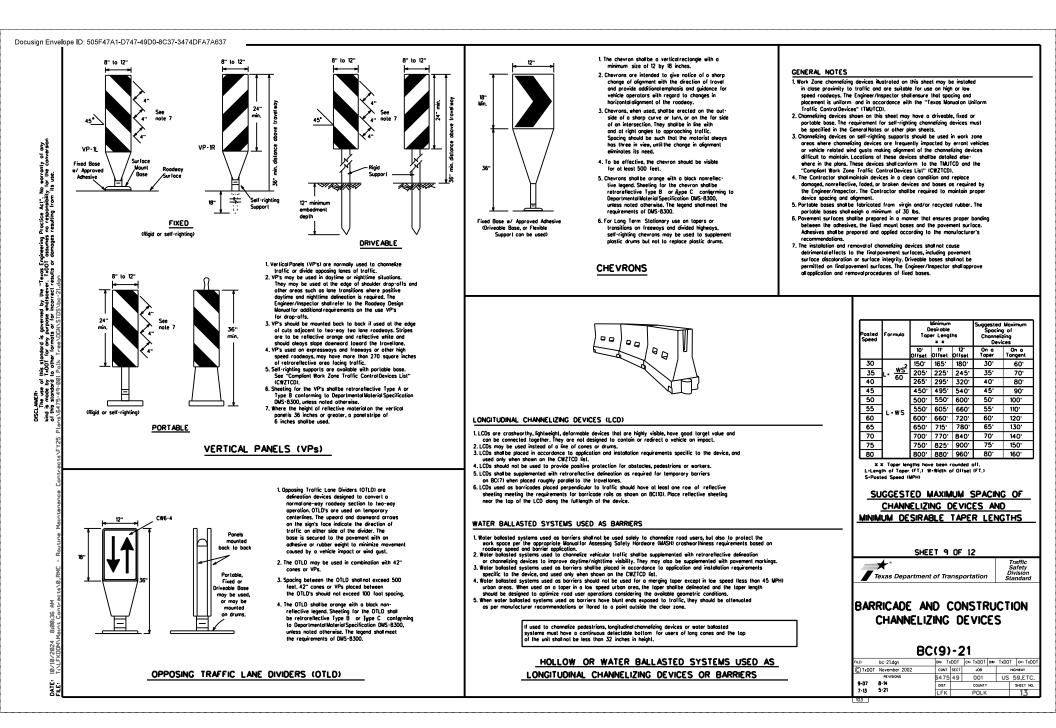
6475 49 001 US 59,ETC.

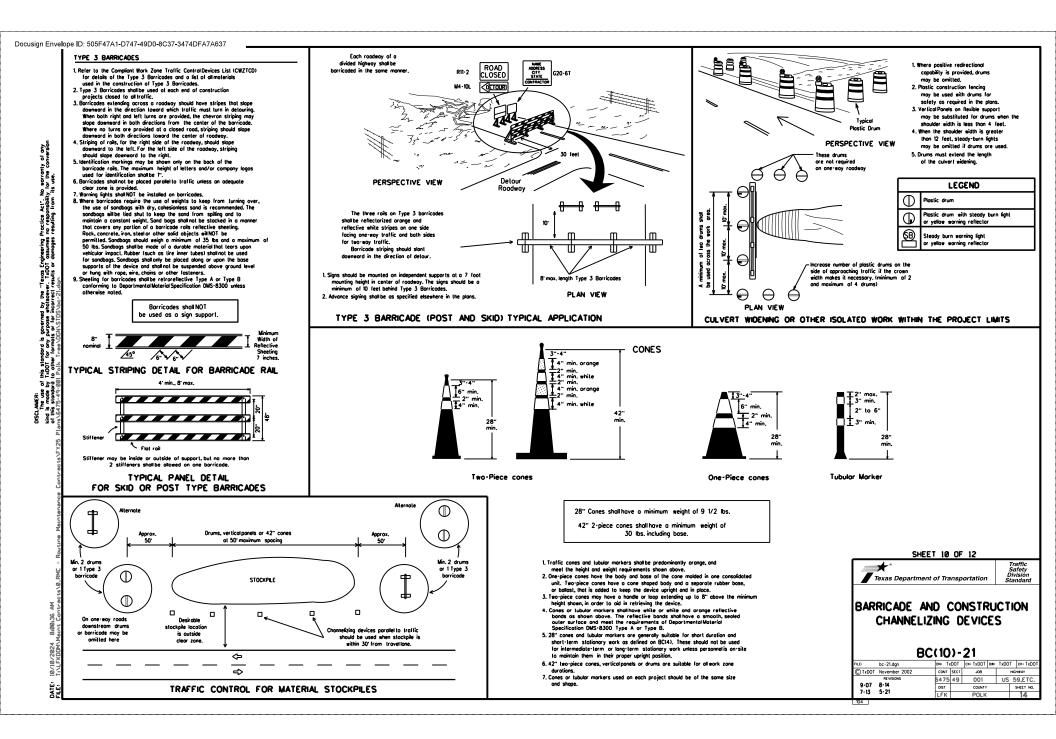
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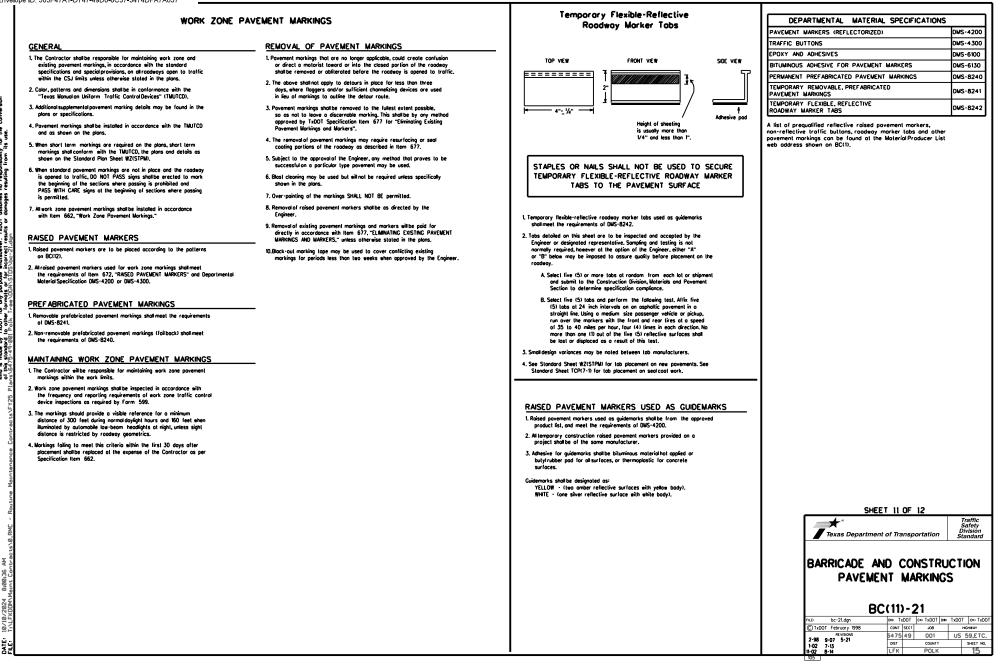
COUNTY

POLK

- Tope, rope, or plastic chain strung between devices are not detectable, do not comply with the design standards in the "Americans with Disabilities Act Accessibility Guidelines (ADAAG)" and should not be used as a control for pedestrian movements
- 5. Warning lights shall not be attached to detectable pedestrian borricodes
- borricodes. 6. Detectable pedestrian barricodes should use 8" nominal barricade rais as shown an BC(10) provided that the top railprovides a smooth continuous railsuitable for hand trailing with no splinters, burrs, or sharp edges.

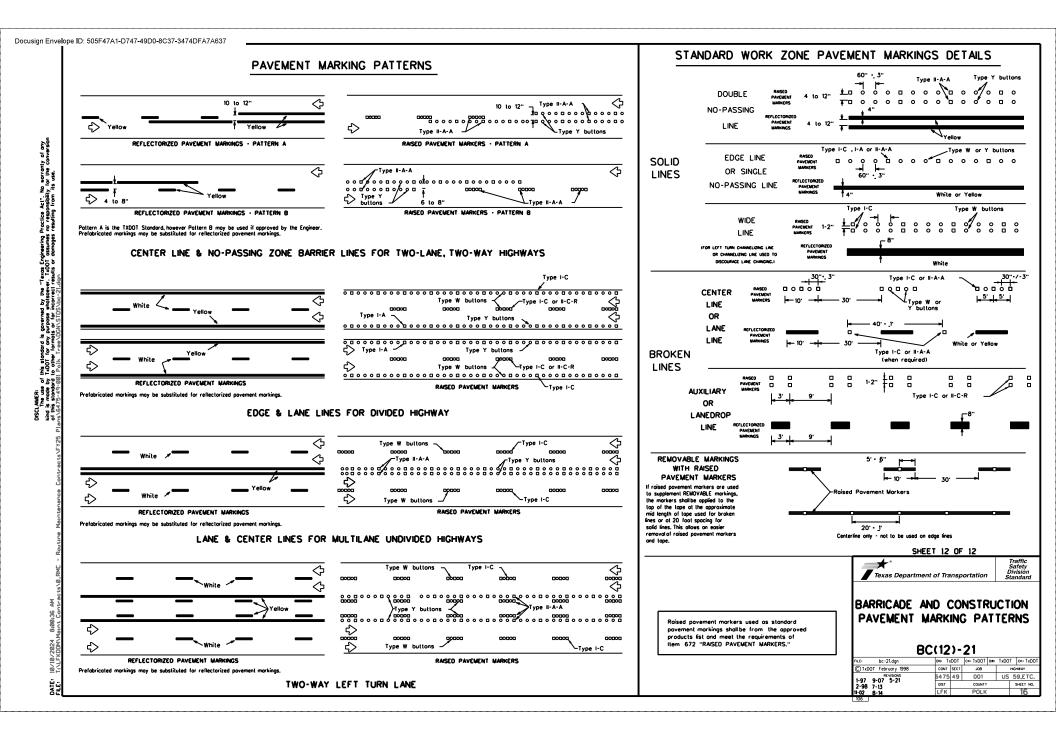


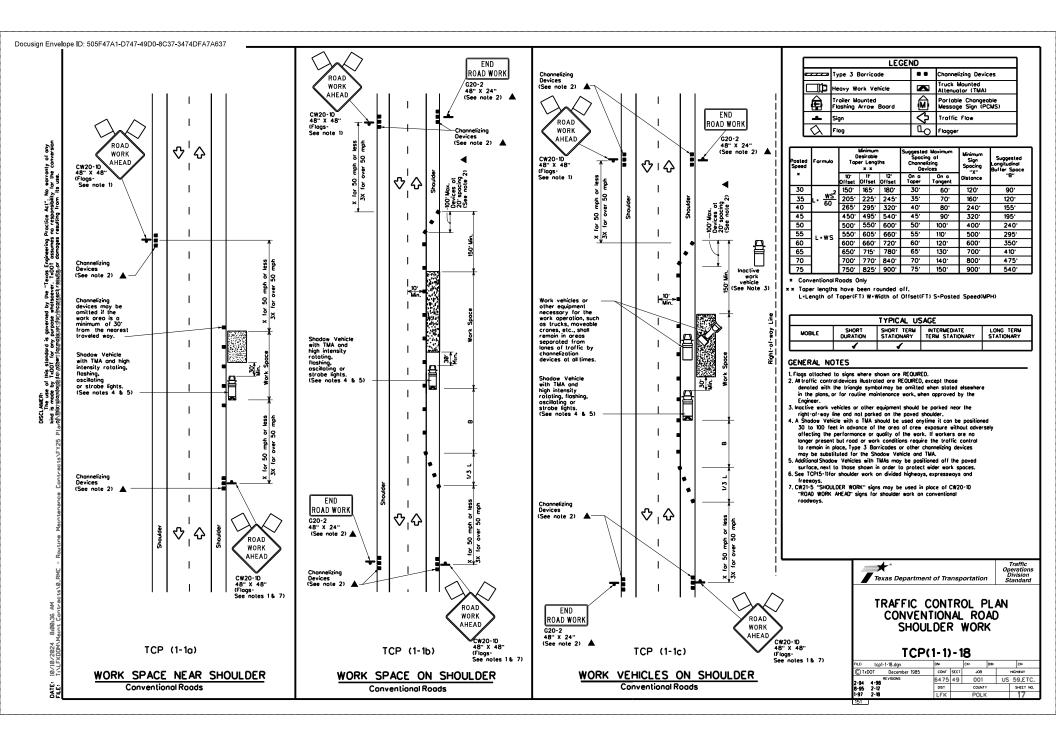


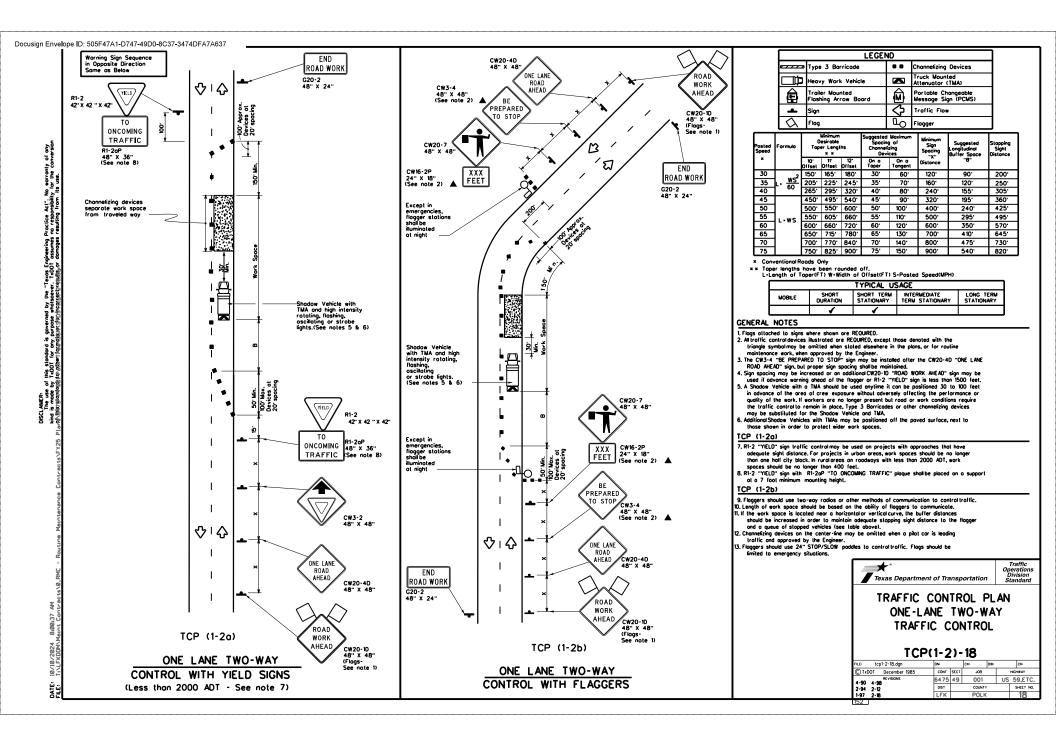


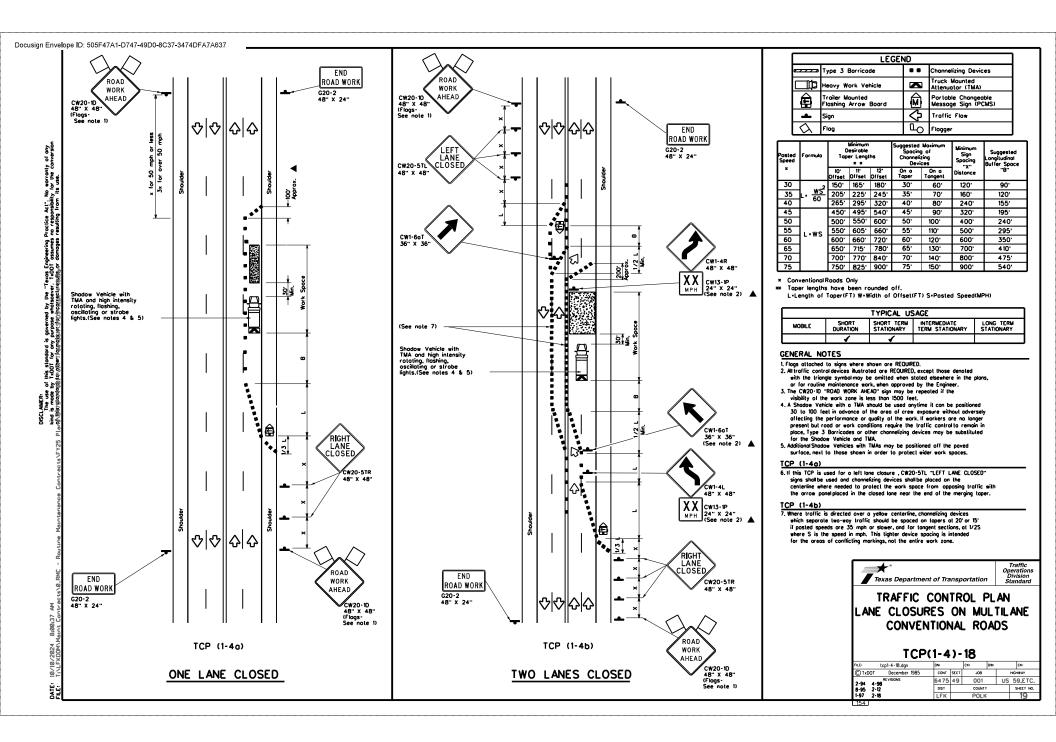
this standard is governed by the "Tesas Engineering Practice Act". No warranty of any 1.500 for any purpose stationacer. 1.300 tassumes no responsibility for the conversion 1.600 to the directorest results or damages resulting from 1s use. 565

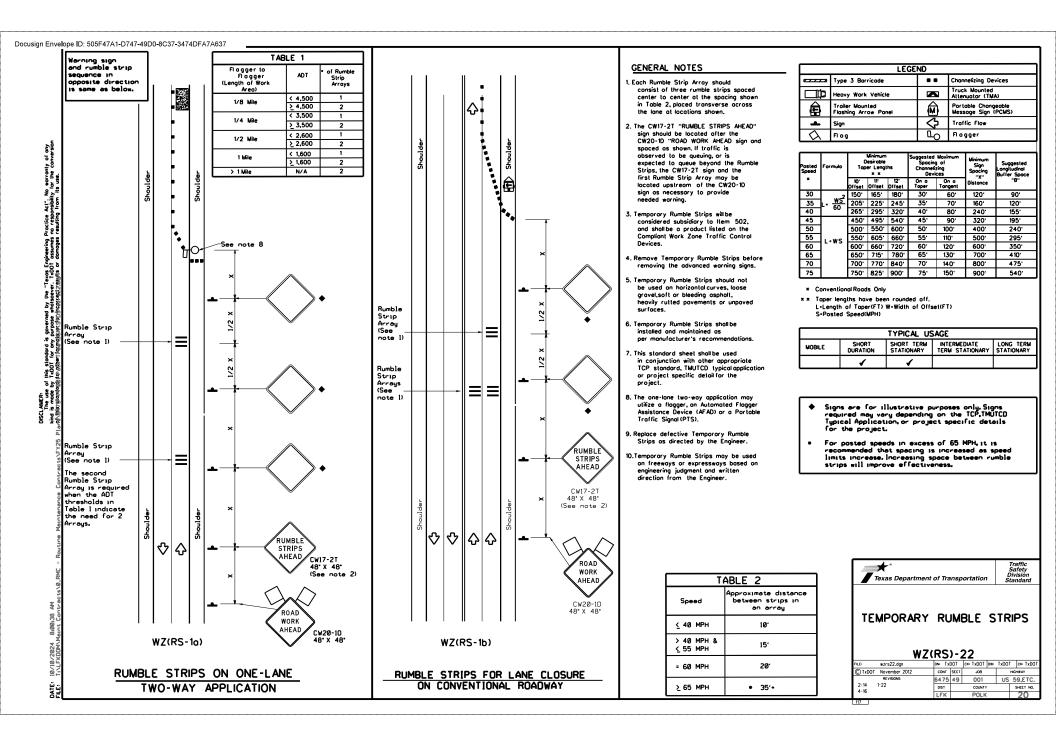
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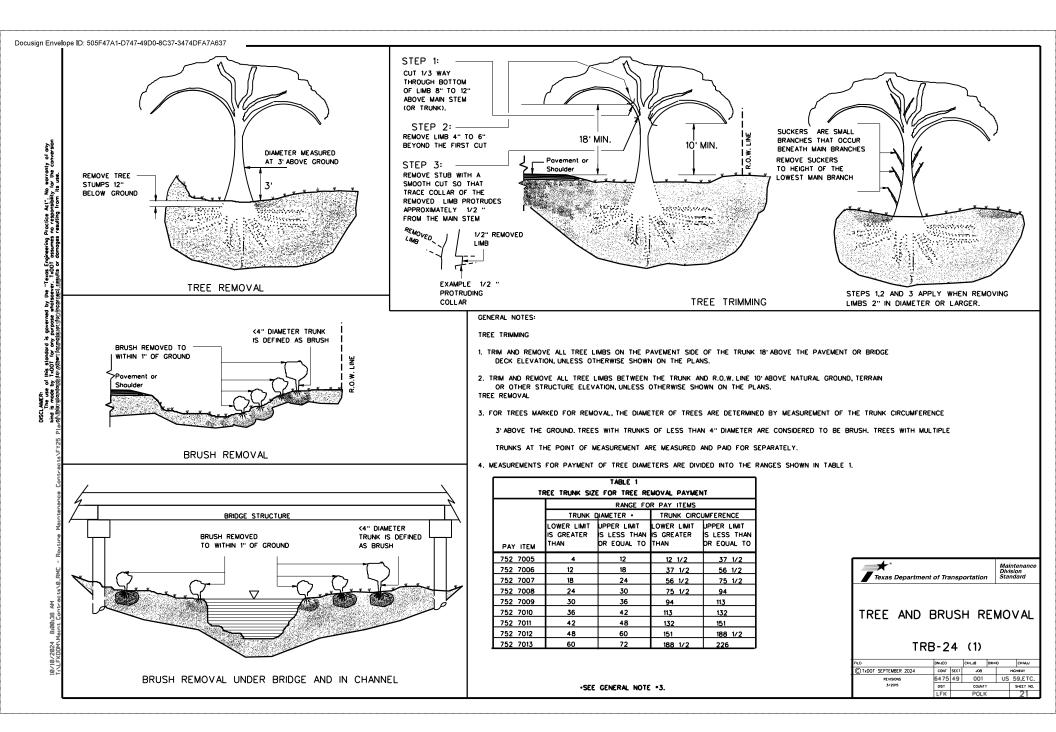


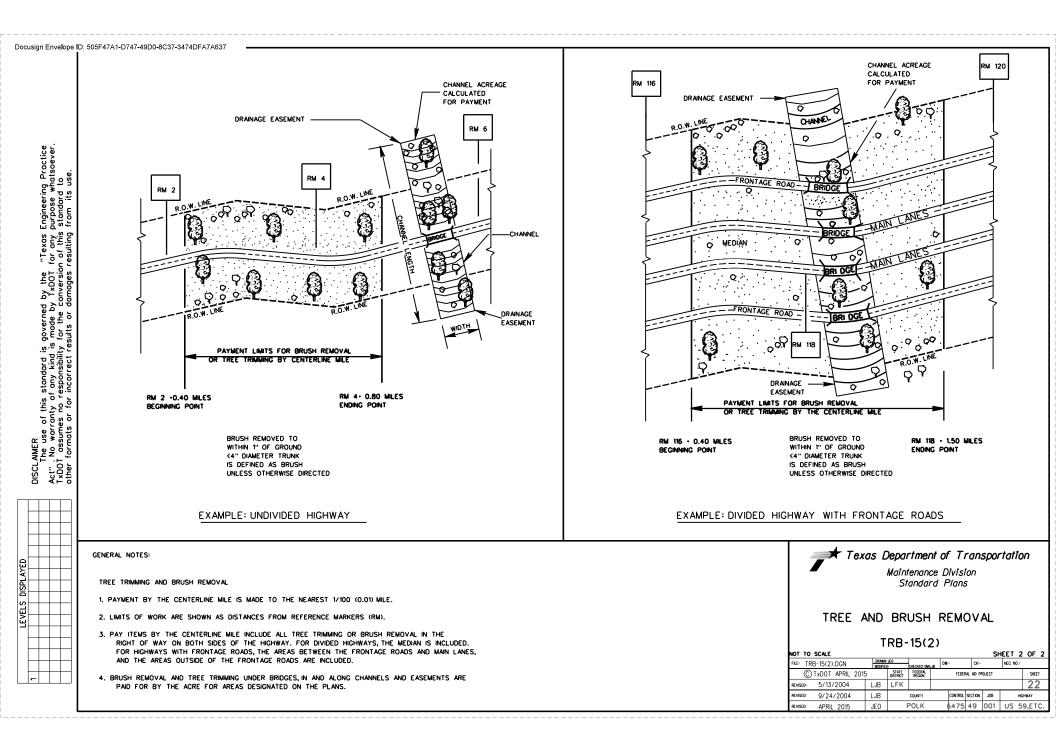












Docusian Envelo	pe ID: 505F47A1-D747-49D0-8C37								
		ON PREVENTION-CLEAN W	ATER ACT SECTION 402	III. CULTURAL RESOURCES		VI. HAZARDOUS MATERIALS OR	CONTAMINATION ISSUES		
	TEDES TYR 150000: Stormwate	r Discharge Permit or Construction	General Permit	Refer to TXDOT Standard Specification	ns in the event historical issues or archeological	General (applies to all projects):			
	required for projects with 1 or mo disturbed soil must protect for ero Item 506.	ore acres disturbed soil. Projects wit osion and sedimentation in accordar	th any	artifacts are found during construction.	In the correct of a cheological article signal article signal rk in the immediate area and contact the Engineer	hazardous materials by conducting safe making workers aware of potential haza	nAct (the Act) for personnel who will be working with ty meetings prior to beginning construction and irds in the workplace. Ensure that all workers are ment appropriate for any hazardous materials used.		
	List MS4 Operator(s) that may receive discharges from this project. They may need to be notified prior to construction activities.			No Action Required	🔀 Required Action	Obtain and keep on-site Material Safety	Data Sheets (MSDS) for all hazardcus products but are not limited to the following categories:		
	Action No.			Action No.		Paints, acids, solvents, asphalt products	s chemical additives, fuels and concrete curing		
rsion	1. N/A			<ol> <li>Contractor to repair or replace in kin damaged (buildings, historical markers)</li> </ol>	id, at their own expense, any historic materials s, etc.) in the course of executing work. Contractor	products which may be hazardous. Main	təd storage, off bare ground and covered, for nain product labelling as required by the Act.		
o worranty of any for the conversio lightnee.	No Adion Required	Required Action		is responsible for locating replacement course of the work. TxDOT-Environme	i source for historical materials damaged in the initial Affairs Division is to be informed of proposed xxas I listorical Commission prior to the execution	Maintain an adequate supply of on-site spill response materials, as indicated in the MSDS. In the event of a spill, take actions to mitgate the spill as indicated in the MSDS, in accordance with safe work practices, and contact the District Spill Coordinator immediately. The Contractor shall be responsible for the proper containment and cleanup of all product spills.			
2 × 2 200	Action No.			IV. VEGETATION RESOURCES		Contact the Engineer if any of the follow	ing are detected:		
e Act	various roadways within the Polk	ject is the removal and trimming of to County Maintenance Section that a	are hazardous,		nt practical. Contractor must adhere to Construction	* Dead or distressed vegetation (r * Trash piles, drums, canister, bar	not identified as normal)		
er rei Rulli	grade, hydraulic capacity, and ori	ht-of-way. This activity maintains the iginal purpose of the site. Therefore	, this project meets	comply with requirements for invasive	2,164, 192, 193, 506, 730, 751, 752 in order to species, beneficial landscaping, and tree/brush	* Undesirable smells or odors * Evidence of leaching or seepage	of substances		
ring Pr mes n	the definition of aroutine mainten	ance activity as defined in the TPDE 5, 2023 and TCEQ's TPDES CGP d	ES General Fermit	removal commitments.		Evidence of reaching of seepage of substances Does the project involve any bridge class structure rehabilitation or replacements (bridge class structures not including box culverts)?			
inginee Si ossi				No Action Required	Required Action	Yes No			
exos   TxD0				1. Portions of FM 1276, FM 943, and F	FM 2610 are adjacent to Big Thicket National	If "No", then no further action is rquired			
the "I beever"				required:	ing roadway limits within BITH and actions	,	completing asbestos assessment/inspection.		
verned by pose whols KRevigeou	WATERACT SECTIONS 4	EAMS, WATERBODIES AND 01 AND 404	WEILANDS CLEAN	- FM 2610: From 0.25 mi. North of Mer	nard Creek to 0.14 mi. South of Menard Creek. I 943 to 0.73 mi. North of intersection of FM 943.	Are the results of the asbestos inspection positive (is asbestos present)?			
verne Pose	USACE Permit required for filling,	, dredging, excavating or other work	k in any	<ul> <li>FM 943: From 0.37 mi. West of Mena</li> </ul>	to 0.54 mi. East of Segno Fire Lane Rd, from	If "Yes", then TxDOT must retain a DSFS licensed asbestos consultant to assist with			
ng br	water bodies, rivers, creeks, streams, wetlands or wet areas. The Contractor must adhere to all of the terms and conditions associated with the following permit(s):			1.18 mi. Northwest of FM 1276 interse	iction to 0.23 mi. Southeast of FM 1276 intersection, orthwest of Hardin County Line, and from 0.31 mi.	the rotification, develop abatement/mitigation procedures, and perform maragement activities as necessary. The notification form to DSHS must be postmarked at least 15 working days prior to scheduled demultion. In either case, the Contractor is responsible for providing the date(s) for abatement			
Ion or Perf Jogg				Southeast of Wiggins Loop Rd. to 2.01	1 mi. Southeast of Wiggins Loop Rd.				
#001 801	No Permit Required Nationvide Permit 14 - PCN not Required (less than 1/10th acre waters or weltards affected)			prior approval from BITH and Maintena	s abcve are to be cut or otherwise damaged without ance Engineer.	activities and/or demolition with careful	coordination between the Engineer and e construction delays and subsequent claims.		
				limits listed above.	all notify BITH prior to working within these roadway	Any other evidence indicating possible hazardous materials or contamination discovered on site. Hazardous Materials or Contarrination Issues Specific to this Project:			
Tglope	Nationwide Permit 14 - PCN	Required (1/10th to < 1/2 acre	e, 1/3 in tidal waters)	C. No stockpiling or storage of materia above.	als and equipment within these roadway imits listed		Required Action		
SCL SCL	Individual 404 Permit Require					No Action Required			
Plank C	Other Nationwide Permit Req	quired: NWP #		V. FEDERAL LISTED, PROPOSE	D THREATENED, ENDANGERED SPECIES, STED SPECIES, CANDIDATE SPECIES	Action No.			
Y25	Required Actions: List waters of t and check Best Management Pra	the US permit applies to, location in actices planned to control erosion, s	project edimentation	AND MIGRATORY BIRDS.		1. N/A			
ic ts/F	and post-project TSS.			No Action Required	Required Action	VII. OTHER ENVIRONMENTAL ISS	SJES		
ontre	Action No.			Action No.		No Action Required	Required Action		
ت و	1. N/A			1. In order to maintain compliance with Code and Migratory Bird Treaty Act (M	n Chapter 64 of the Texas Parks and Wildlife BTAI, construction activities that may affect	Continuation of Section IV Vegetation Resources for conditions within the BITH:			
Le				nests (i.e. tree removal, tree limbing, b	ridge work) shall be conducted outside of the er 15). In the event birds or active nests	Action No.			
Main	performed in the waters of the US	n water marks of any areas requiring S requiring the use of a nationwide p		(eggs and/or nestlings present) are en conducting work.	countered, contact the engineer prior to	1. Do not fell trees within BITH boundary Engineer, Timber cut within the BITH boundary	without prior approval from BITH ard Maintenance undary remains the property of the BITH and may		
tioe	found on the Bridge Layouts.			2. Texas Trailing Phlox (federally listed	endangered species-plant) is present within	require measured lengths to be cut or for	trees to be felled entirely onto BITH land.		
- Rou	Best Management Practices:			the ROW along Farm-to-Market Road (FM) 1276 in the Polk County Maintenarce Section. Below are the following roadway limits and actions required:					
SMC .	Erosion	Sedimentation	Post-Cconstruction TSS	- FM 1276: From 5.0 miles South of US	S 190 to 7.0 miles South of US 190.		Design Division		
.0.5	Temporary Vegetation Blankets/Matting	Silt Fence Rock Berm	Vegetative Filter Strips Retention/Irrigation Systems		ee trimming may take place within the roadway ad from the Lufkin District ENV and Maintenance		Texas Department of Transportation		
že j	Mulch	Triangular Filter Dike	Extended Detention Basin	Engineer.	a from the luikin disince env and Maintenance		ENVIRONMENTAL PERMITS,		
Cont ∳	Sodding	Sand Bag Berm	Constructed Wetlands			_			
Big7s	Interceptor Swale	Straw Bale Dike	Wet Basin		ABBREVIATIONS		ISSUES AND COMMITMENTS		
- MA	Diversion Dike	Brush Berms Erosion Control Compost	Erosion Control Compost Mulch Filter Berm and Socks	BMP: Best Management Practice CGP: Construction General Permit DSHS: Texas Department of State Health Service	SPCC: Spill Prevention Control and Countermeasure SWP3: Storm Water Pollution Prevention Plan PCN: Pre-Construction Notification		EPIC		
K00	Mulch Filter Berm and Socks	Mulch Filter Berm and Socks	Compost Filter Berm and Socks	FHWA: Federal Highway Administration	PSL: Project Specific Location		SHEET 1 OF 1		
10/10 11/1	Compost Filter Berm and Socks	Compost Filter Berm and Socks	Vegetation Lined Ditches	MOU: Memorandum of Understanding MS4: Municipal Separate Stormwater Sewer Sy MBTA: Migratory Bird Treat Act	TPDES: Texas Pollutanto Discharge Elimination System TPWD: Texas Parks and Wildlife Department TPWD: Texas Parks and Wildlife Department		FILE:         epic.dgn         DN: TxDDT         CK: RG         DW: VP         CK: AR           © TxDDT:         February 2015         CONT         SECT         JOB         HIGHWAY		
		Stone Outlet Sediment Traps	Sand Filter Systems	NOT: Notice of Termination NWP: Nationwide Permit	TxDOT: Texas Department of Transportation T&E: Threatened and Endangered Species USACE: U.S. Army Corps of Engineers		RE VISIONS         64.75         49         001         US         59,ETC.           05-07-И АОЕО NOTE SECTION IV.         DIST         COUNTY         SHEET NO.		
DATE: FILE:			Grassy Swales	NOI: Notice of Intent	USFWS: U. S. Fish and Wildlife Service		O1-23-2015 SECTION IICHANGED ITEM 1122 TO ITEM 506, ADDED GRASSY SWALES. LFK POLK 22		

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