

PROJECT NO.	RMC 6390-01001   1		
STATE	DISTRICT	COUNTY	
TEXAS	01	GRAYSON	
SECTION	SECTION	JOB	PROJECT NO.
6390	01	001	VARIOUS

**INDEX OF SHEETS**

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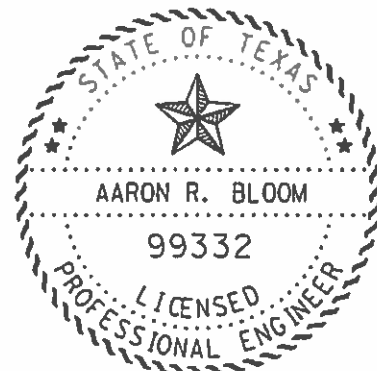
**STATE OF TEXAS  
DEPARTMENT OF TRANSPORTATION**

**PLANS OF PROPOSED  
STATE HIGHWAY IMPROVEMENT**

PROJECT: RMC 6390-01-001  
GRAYSON COUNTY

LIMITS: VARIOUS HIGHWAYS  
REMOVAL AND DISPOSAL OF DEBRIS

DESIGN SPEED - VARIES  
ADT - VARIES  
AREA OF DISTURBED SOIL = 0 ACRES



The seal appearing on this document was authorized by AARON R. BLOOM, P.E. 99332

on 8-25, 2021  
*Aaron R. Bloom, P.E.*



SEE SHEET 5  
GRAYSON COUNTY MAP FOR  
BEGINNING AND ENDING PROJECT LOCATIONS

EXCEPTIONS: N/A  
EQUATIONS: N/A

**TEXAS DEPARTMENT OF TRANSPORTATION**

SUBMITTED FOR LETTING

*Aaron R. Bloom, P.E.*, 8-25 20 21  
AREA ENGINEER

RECOMMENDED FOR LETTING

*Jack Taylor*, 8-26 20 21  
DISTRICT MAINTENANCE ADMINISTRATOR

APPROVED FOR LETTING:

*J. L. ...*, P.E., 8-26 20 21  
DIRECTOR OF OPERATIONS

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION, NOVEMBER 1, 2014 AND SPECIAL SPECIFICATION ITEMS INCLUDED IN THE CONTRACT SHALL GOVERN ON THIS PROJECT.

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FILED  
DATE: 08/25/21  
07:05

**Project Number:** RMC 6390-01-001

**County:** GRAYSON

**Control:** 6390-01-001

**Highway:** US 75, etc.

## GENERAL NOTES:

**Project Description** - This project consists of removal and disposal of debris on or adjacent to various highways in Grayson County as denoted on the location map.

Questions prior to letting may be submitted by email to the names listed below:

Sherman Area Office:

Aaron Bloom, P.E. – [aaron.bloom@txdot.gov](mailto:aaron.bloom@txdot.gov)

Colby Shelton, P.E. – [Colby.shelton@txdot.gov](mailto:Colby.shelton@txdot.gov)

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

All contractor questions will be reviewed by the Engineer. Once a response is developed, it will be posted to TxDot's Public FTP at the following address: <https://ftp.dot.state.tx.us/pub/txdot-info/Pre-Letting Responses/>

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

**TxDOT Project Supervisor** – All work on this contract will be scheduled and directed by the following person. Payment will be made on a monthly basis for work completed and accepted according to specifications. All payment requests shall be directed to the same.

Matt Poirot, Grayson County Maintenance Supervisor  
3904 Hwy 75 South  
Sherman, TX 75090  
Phone: 903-893-8831  
Fax: 903-813-0134

**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.

### ITEM 2 – INSTRUCTIONS TO BIDDERS

**Article 2.5** – This project includes plan sheets that are not part of the bid proposal. View plans on-line or download from the web at:

[http://www.txdot.gov/business/contractors\\_consultants/plans\\_online.htm](http://www.txdot.gov/business/contractors_consultants/plans_online.htm)

**Project Number:** RMC 6390-01-001

**County:** GRAYSON

**Control:** 6390-01-001

**Highway:** US 75, etc.

Order plans from any of the plan reproduction companies shown on the web at:

<http://www.txdot.gov/business/letting-bids/repro-companies.html>

Perform work on roadways in Grayson County as shown on the roadway list in the plan packet.

Furnish and wear safety vests/shirts at all times while within the departmental right-of-way. All vests/shirts will be fluorescent orange and approved by the Engineer. Maintain a safety program that includes furnishing and maintaining all necessary safety equipment as required by the Engineer.

### ITEM 7 – LEGAL REGULATIONS AND RESPONSIBILITIES

No significant traffic generator events identified.

### ITEM 8 – PROSECUTION AND PROGRESS

Nighttime work after 7:30 PM will be permitted because of decreased traffic volume.

The number of working days for this project will be 365 days or until contract funds are expended. Time will be computed according to Item 8.3.1.5 Calendar Day.

Utilize a crew experienced in the work of debris pickup and disposal and the necessary traffic control. Have a minimum of one English-speaking employee on the job site at all times.

### ITEM 502 – BARRICADES, SIGNS, AND TRAFFIC HANDLING

Each corner of a caged vehicle will be mounted with high intensity amber strobe lights. In addition, a high intensity amber light bar will be located at the middle, rear of the cage. The use of high visibility, fluorescent flags mounted on vehicle high-points are recommended to further enhance the visual presence of the debris pick-up operation. If a trailer mounted cage is used, the vehicle pulling the trailer will also have an amber light bar mounted on the top of the cab.

An arrow board will be mounted above the cab. During each cycle, the strobe lights will be operating as well as a four-corner flashing pattern on the arrow board. The cage will have an opening (door) large enough to handle large items of debris. The tailgate of the truck will be painted according to the sheet titled "Work Vehicle Details" in the plan packet. Supply a sign reading "Vehicle Makes Frequent Stops" to be mounted on the rear of the cage.

In the event of large debris in the roadway, which requires special handling, TxDOT will provide assistance as determined by the maintenance supervisor. Saturday work may be permitted due to rain out during prior week as approved by the Engineer.

**Project Number:** RMC 6390-01-001

**County:** GRAYSON

**Control:** 6390-01-001

**Highway:** US 75, etc.

Traffic control for this project will be in accordance with TCP (3-1) or TCP (3-2) depending on the roadway. Two vehicles equipped with truck mounted attenuators (TMA) will be required for each roadway, and will be paid using Item 6185-6005 TMA (Mobile Operation).

**ITEM 735 – DEBRIS REMOVAL**

Pickup and dispose of debris on a daily basis, according to the frequency and schedule shown on the roadway list in the plan packet.

All debris collected by the Contractor becomes the property of the Contractor and will be disposed of at state-approved solid waste site(s) and in accordance with local health department regulations.

Whole tires and portions of tires will be picked up and taken to the TXDOT maintenance warehouse lot located on US 75 at the intersection of FM 1417 in Sherman, Texas, between the hours of 7:00 AM and 5:00 PM.

Pick up all debris as outlined in Item 735.3.1 "Center Medians and Mainlanes", Item 735.3.2 "Frontage Roads", and Item 735.3.3 "Entrance and Exit Ramps" plus the immediate ten (10) feet of the area adjacent to the pavement. Clean out all storm drains in curbed roadways, center barrier drains, and or median drains. Remove debris that can prevent water drainage.

In addition, pickup **all** large debris within the **entire** center median on Reference No. 1 (US 75, From Red River to FM 1417).

This item will be measured by the cycle. A cycle is defined as one (1) complete removal and proper disposal of all debris from within the limits indicated on the plans for a particular roadway as specified for any designated pickup.



CONTROLLING PROJECT ID 6390-01-001

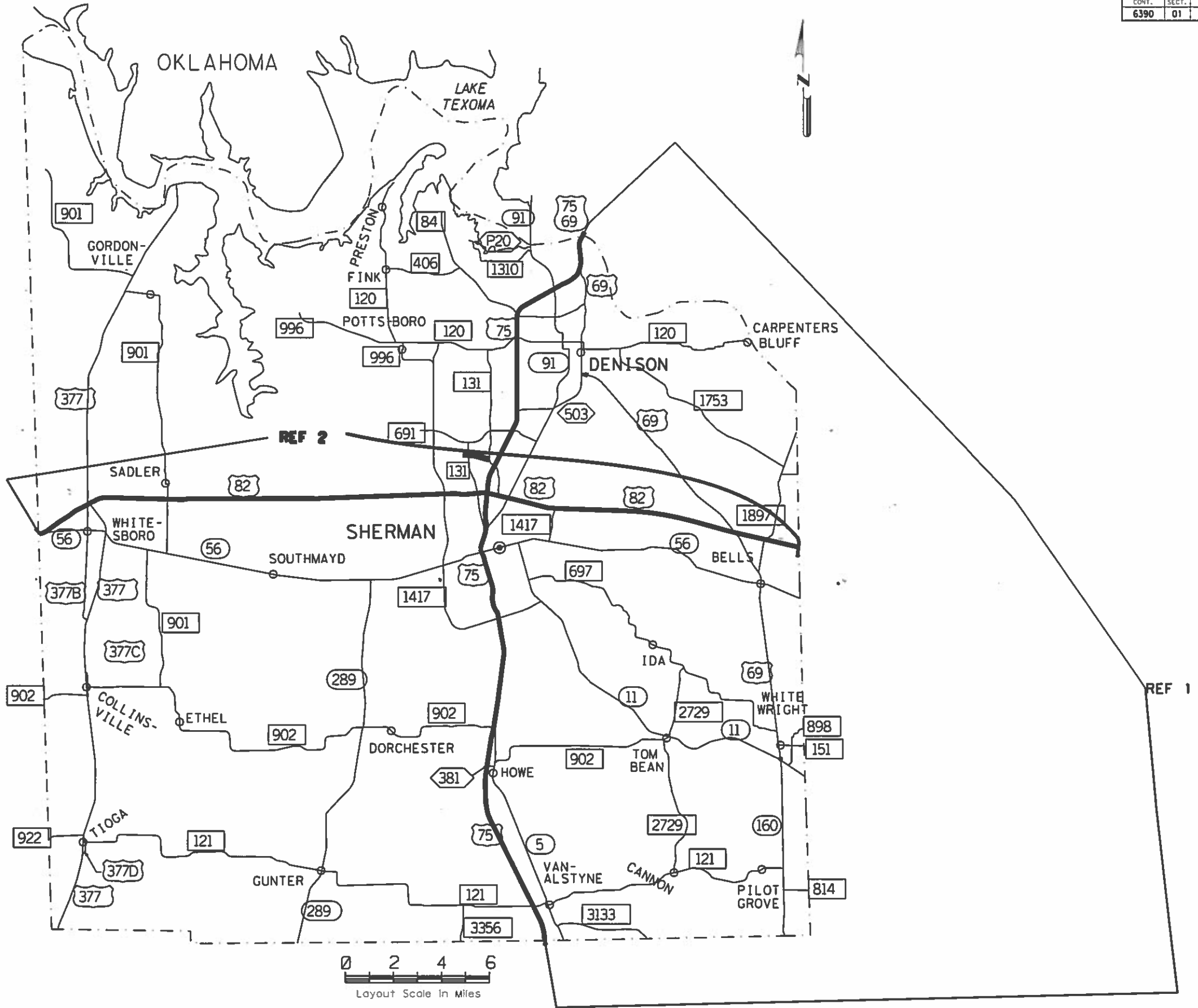
DISTRICT Paris  
HIGHWAY US0075

COUNTY Grayson

# Estimate & Quantity Sheet

CONTROL SECTION JOB				6390-01-001		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00181894			
COUNTY				Grayson			
HIGHWAY				US0075			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	500-6001	MOBILIZATION	LS	1.000		1.000	
	735-6001	DEBRIS REMOVAL (CNTR MEDIANS/MAINLANES)	CYC	182.000		182.000	
	735-6003	DEBRIS REMOVAL (FRONTAGE ROADS)	CYC	52.000		52.000	
	735-6005	DEBRIS REMOVAL (ENTRANCE/EXIT RAMPS)	CYC	130.000		130.000	
	6185-6005	TMA (MOBILE OPERATION)	DAY	468.000		468.000	

FED. RD DIST. NO.	PROJECT NO.	SHEET NO.	
6	RMC 6390-01-001	5	
STATE	DIST.	COUNTY	
TEXAS	01	GRAYSON	
CONT.	SECT.	JOB	HIGHWAY NO.
6390	01	001	VARIOUS



0 2 4 6  
Layout Scale In Miles

**SUMMARY OF QUANTITIES**  
**GRAYSON COUNTY**  
**REMOVAL AND DISPOSAL OF DEBRIS**

REF	HWY.	LOCATION	REFERENCE MARKERS	CENTERLINE MILES	ITEM 735-6001	ITEM 735-6003	ITEM 735-6005	FREQUENCY		TOTAL MILES ITEM 735-6001	TOTAL MILES ITEM 735-6003	TOTAL MILES ITEM 735-6005
1**	US 69 / US 75	RED RIVER BRIDGE TO COLLIN CO. LINE	# 192 TO # 224	31.972	78	N/A	78	3 TIMES PER WEEK DAY OPERATION: MON., WED., & FRI. NIGHT OPERATION: SUN., TUES., THURS.	MAY THRU OCTOBER	9975.264	N/A	4987.632
1**	US 69 / US 75	RED RIVER BRIDGE TO COLLIN CO. LINE	# 192 TO # 224	31.972	52	N/A	52	2 TIMES PER WEEK DAY OPERATION: MONDAY & THURSDAY NIGHT OPERATION: MON., THURS.	NOVEMBER THRU APRIL	6650.176	N/A	3325.088
1*	US 75 FR	RED RIVER BRIDGE TO COLLIN CO. LINE	# 192 TO # 224	31.972	N/A	52	N/A	1 TIME PER WEEK AS DIRECTED		N/A	6650.176	N/A
2	US 82	COOKE CO. LINE TO FANNIN CO. LINE	# 622 TO # 656	33.427	52	N/A	N/A	1 TIME PER WEEK AS DIRECTED		6952.816	N/A	N/A
<b>TOTALS</b>					182	52	130			23578.256	6650.176	8312.72

For contractor's information only

\* ALL INTERSECTIONS ARE FIGURED INTO ITEM 735-6003 PICKUP AND DISPOSAL.

\*\* ALL LARGE DEBRIS WITHIN CENTER MEDIAN SHALL BE REMOVED.

ALL STORM DRAINS, CURB DRAINS, MEDIAN WALL DRAINS, AND GRATED MEDIAN DRAINS WILL HAVE DEBRIS CLEARED WEEKLY.

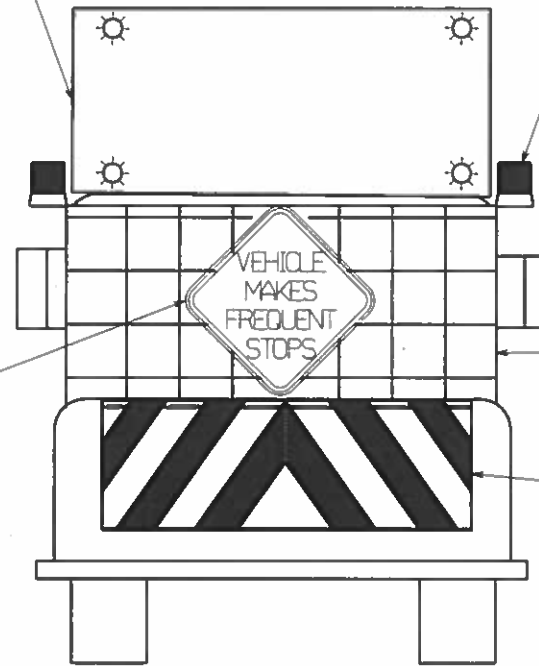
REF #1 INCLUDES THE RED RIVER BRIDGE

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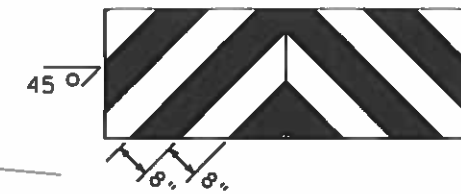
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6	RMC 6390-01-001		6
<b>STATE</b>	<b>DIST.</b>	<b>COUNTY</b>	
TEXAS	PARIS	GRAYSON	
<b>CONT.</b>	<b>SECT.</b>	<b>JOB</b>	<b>HIGHWAY NO.</b>
6390	01	001	VARIOUS

FLASHING ARROW PANEL  
WITH (FOUR CORNER FLASH)

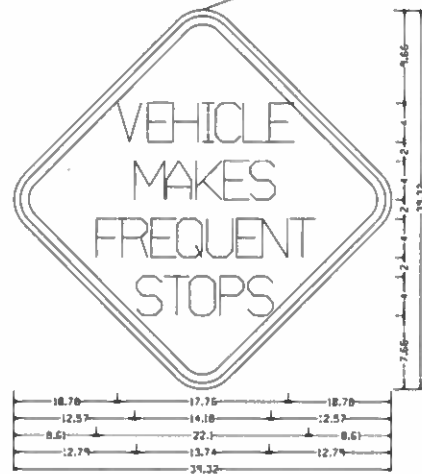
HIGH INTENSITY AMBER STROBE  
LIGHTS ON EACH CORNER  
OF DEBRIS CAGE (4 REQUIRED)



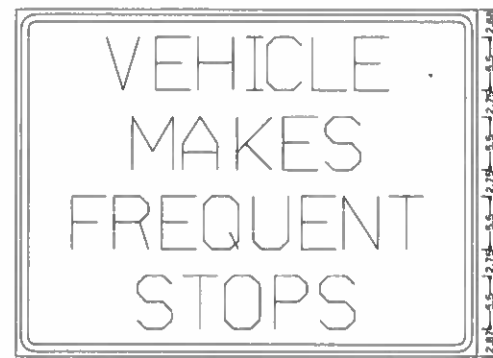
CAGE



INVERTED, 8 INCH WIDE, V-STRIPED  
REFLECTIVE RED AND WHITE CHEVRONS



Vehicle Makes Frequent Stops  
30.00" across sides 3.75" Radius, 0.80" Border, 0.62" Indent. Black on Orange  
(VEHICLE) C; (MAKES) C; (FREQUENT) C; (STOPS) C;



Vehicle Makes Frequent Stops 2.80" Radius, 0.75" Border, 0.50" Indent. Black on Yellow  
(VEHICLE) D; (MAKES) D; (FREQUENT) D; (STOPS) D;

WORK VEHICLE DETAILS

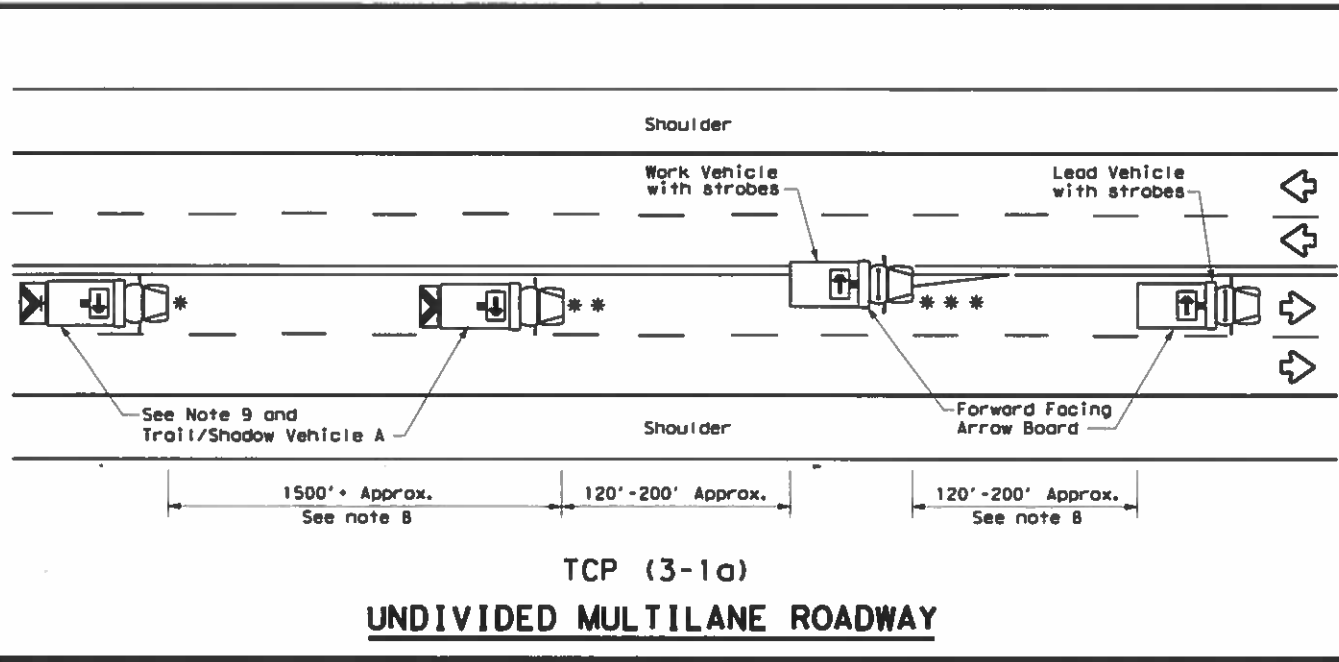
TEXAS DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL PLAN  
MOBILE OPERATIONS  
WORK VEHICLE DETAILS**

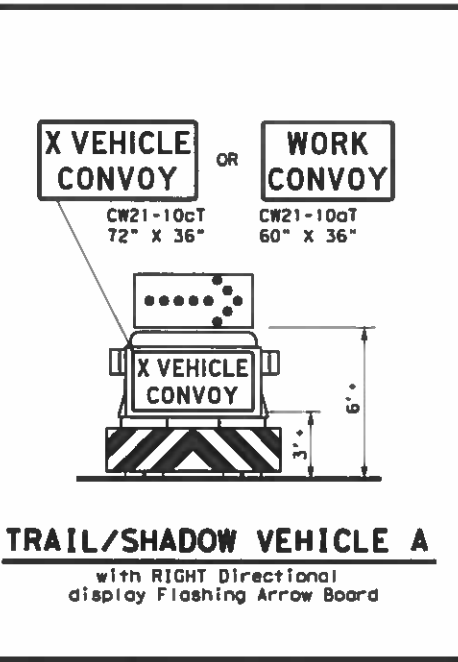
REVISIONS	STATE DISTRICT	FEDERAL REGION	PROJECT NO.	SHEET
	6		RMC 639001001	7
	COUNTY	CONTROL	SECTION	JOB
	GRAYSON	6390	01	001
				VARIOUS

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TCP (3-1a)  
UNDIVIDED MULTILANE ROADWAY



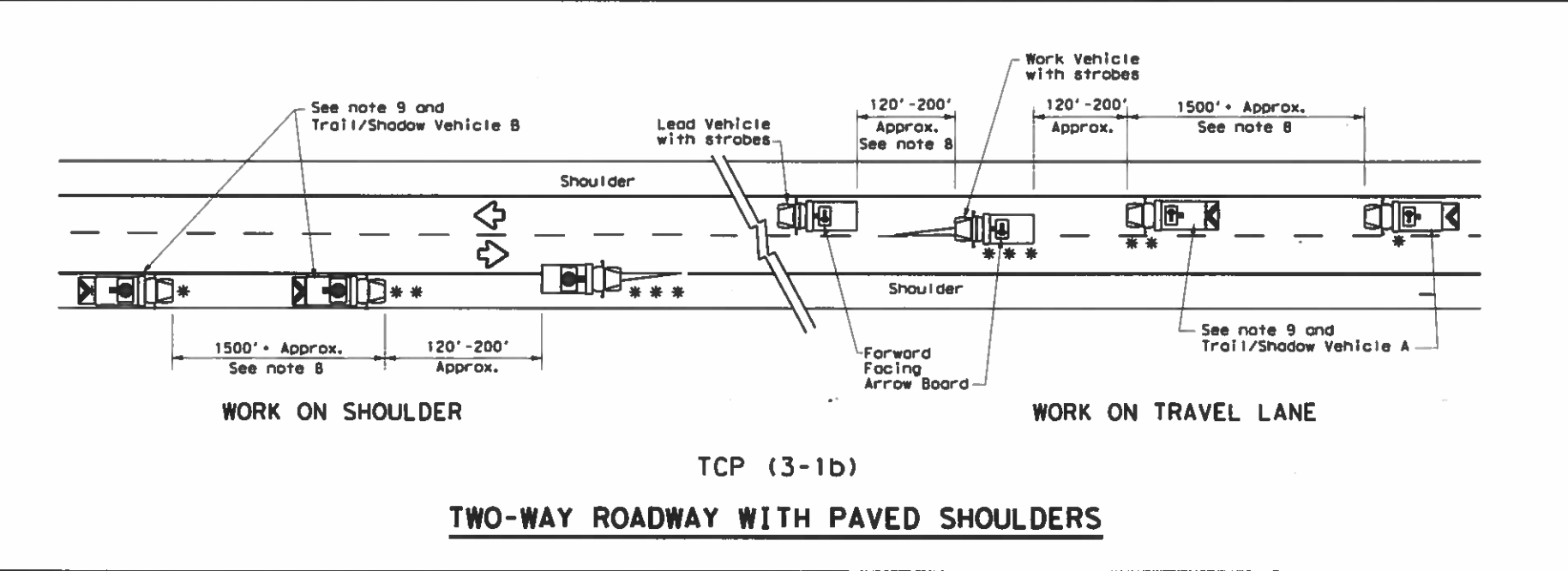
TRAIL/SHADOW VEHICLE A  
with RIGHT Directional display Flashing Arrow Board

LEGEND		ARROW BOARD DISPLAY	
*	Trail Vehicle		RIGHT Directional
**	Shadow Vehicle		LEFT Directional
***	Work Vehicle		Double Arrow
	Truck Mounted Attenuator (TMA)		CAUTION (Alternating Diamond or 4 Corner Flash)
	Traffic Flow		

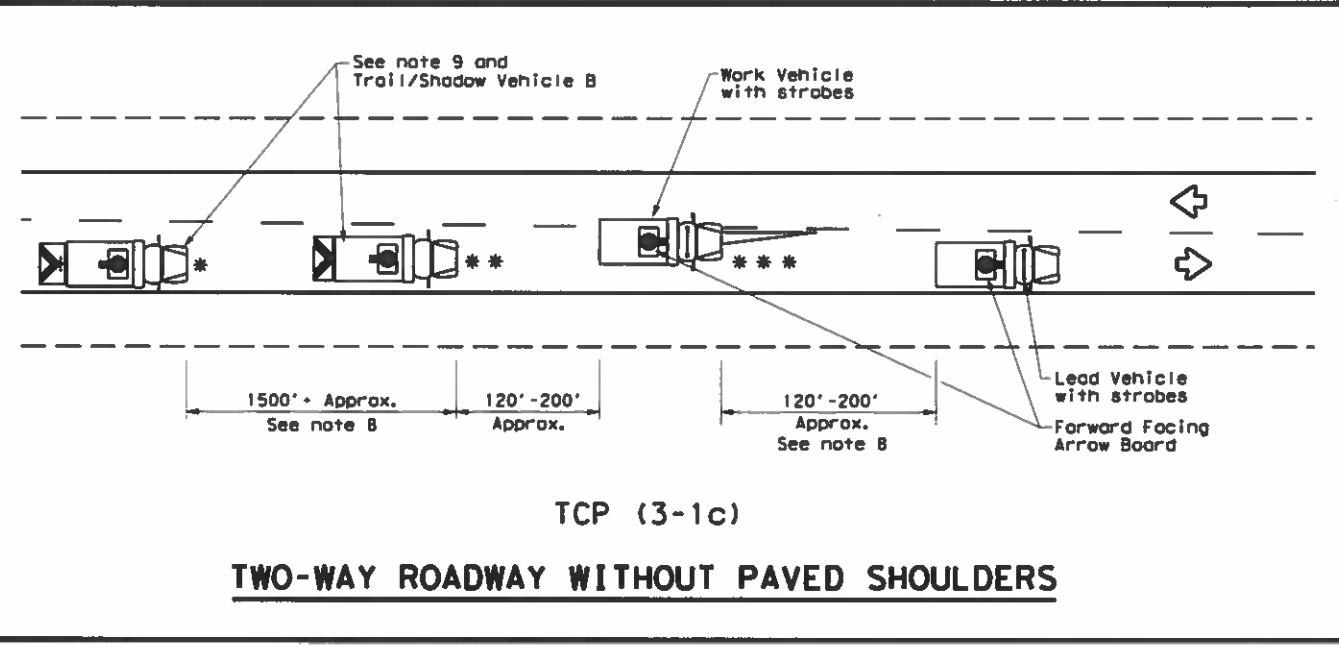
TYPICAL USAGE				
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

GENERAL NOTES

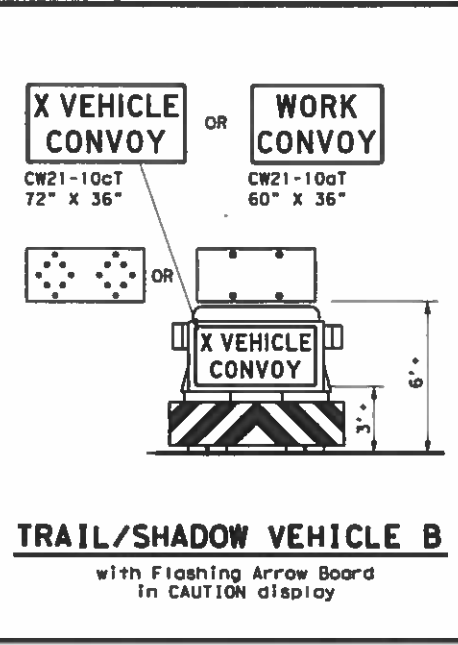
1. TRAIL, SHADOW, and LEAD vehicles shall be equipped with arrow boards as illustrated. When a LEAD vehicle is not used the WORK vehicle must be equipped with an arrow board. The Engineer will determine if the LEAD VEHICLE and/or TRAIL VEHICLE are required based on prevailing roadway conditions, traffic volume, and sight distance restrictions.
2. The use of amber high intensity rotating, flashing, oscillating, or strobe lights on vehicles are required. Blue high intensity rotating, flashing, oscillating or strobe lights when mounted on the driver's side of the vehicle may be operated simultaneously with the amber beacons or strobe lights.
3. The use of truck mounted attenuators (TMA) on the SHADOW VEHICLE and TRAIL VEHICLE are required.
4. Reflective sheeting on the rear of the TMA shall meet or exceed the reflectivity and color requirements of DEPARTMENTAL MATERIAL SPECIFICATION DMS 8300, Type A.
5. Flashing arrow boards shall be Type B or Type C as per the Barricade and Construction (BC) standards. The board shall be controlled from inside the vehicle.
6. Each vehicle shall have two-way radio communication capability.
7. When work convoys must change lanes, the TRAIL VEHICLE should change lanes first to shadow the other convoy vehicles.
8. Vehicle spacing between the TRAIL VEHICLE and the SHADOW VEHICLE will vary depending on sight distance restrictions. Motorists approaching the work convoy should be able to see the TRAIL VEHICLE in time to slow down and/or change lanes as they approach the TRAIL VEHICLE. Vehicle spacing between the WORK VEHICLE and SHADOW VEHICLE and vehicle spacing between WORK VEHICLE and LEAD VEHICLE may vary according to terrain, work activity and other factors.
9. "X VEHICLE CONVOY" (CW21-10cT) or "WORK CONVOY" (CW21-10aT) signs shall be used on TRAIL VEHICLES and SHADOW VEHICLES as shown. As an option 48" X 48" diamond shaped "WORK CONVOY" (CW21-10T) or "X VEHICLE CONVOY" (CW21-10bT) signs may be used where adequate mounting space exists. When used, the X VEHICLE CONVOY sign shall have the number of the convoy vehicles displayed on the sign in the number designation "X" location. The "X VEHICLE CONVOY" sign shall not be used on the SHADOW VEHICLE if a TRAIL VEHICLE is used.
10. On two-lane two-way roadways, the work and protection vehicles should pull over periodically to allow motor vehicle traffic to pass. If motorists are not allowed to pass the work convoy, a "DO NOT PASS" (R4-1) sign should be placed on the back of the rearmost protection vehicle.



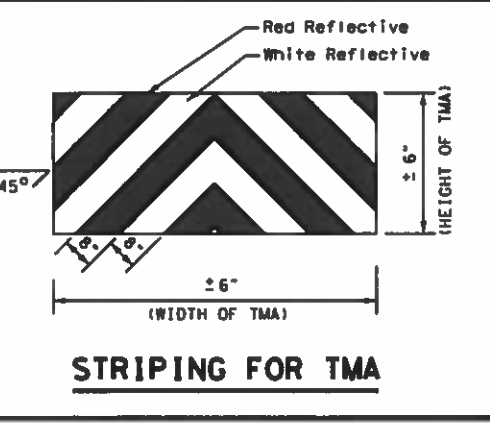
TCP (3-1b)  
TWO-WAY ROADWAY WITH PAVED SHOULDERS



TCP (3-1c)  
TWO-WAY ROADWAY WITHOUT PAVED SHOULDERS



TRAIL/SHADOW VEHICLE B  
with Flashing Arrow Board in CAUTION display



STRIPING FOR TMA

Texas Department of Transportation  
Traffic Operations Division Standard

**TRAFFIC CONTROL PLAN  
MOBILE OPERATIONS  
UNDIVIDED HIGHWAYS**

TCP (3-1)-13

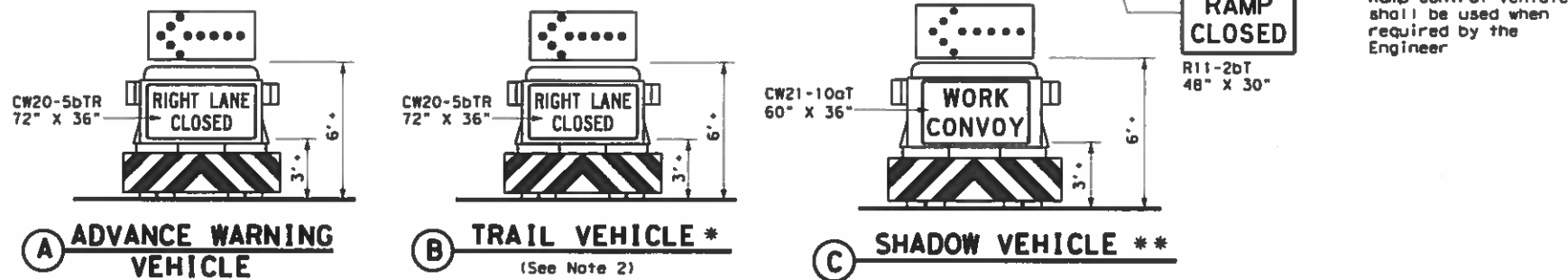
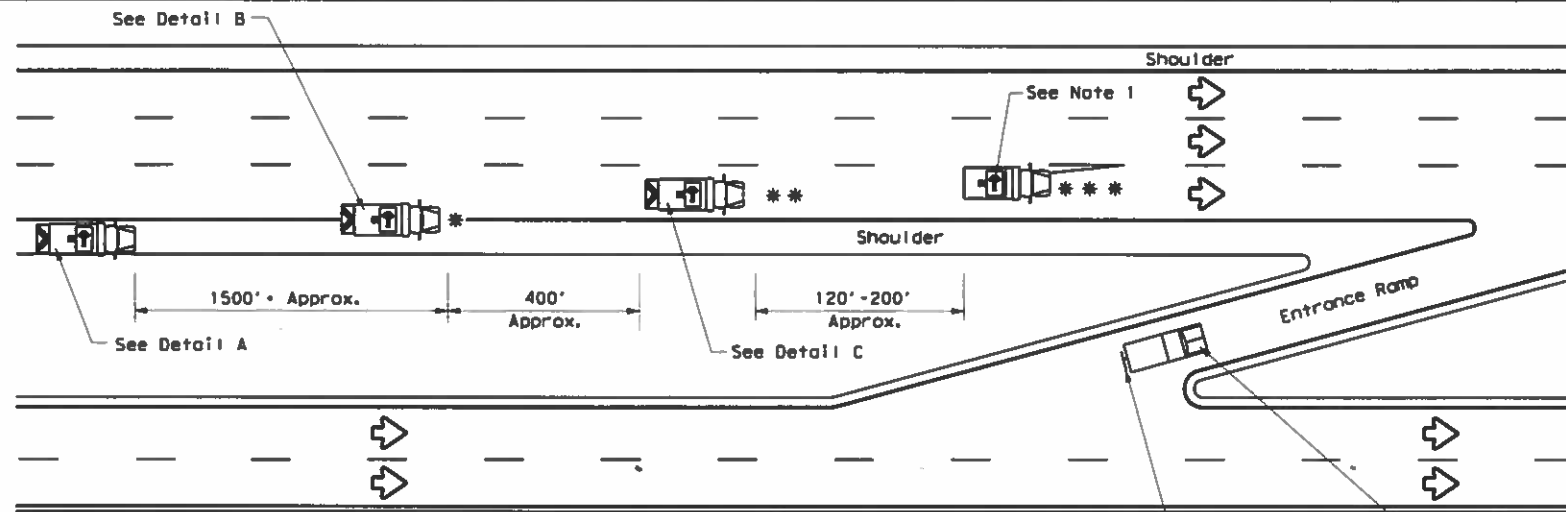
FILE: tcp3-1.dgn	DATE: TxDOT	BY: TxDOT	DATE: TxDOT	BY: TxDOT
©TxDOT December 1985	CONT	SECT	JOB	HIGHWAY
REVISIONS	6390	01	001	VARIOUS
2-94 4-98	DIST	COUNTY	SHEET NO.	
8-95 7-13	01	GRAYSON	8	
1-97				

DATE: FILES

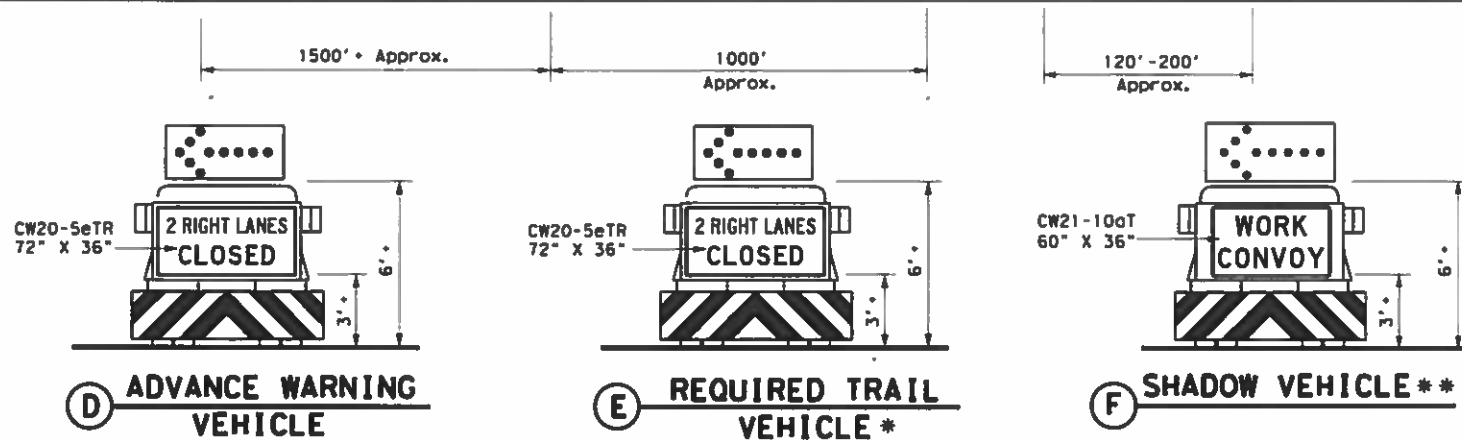
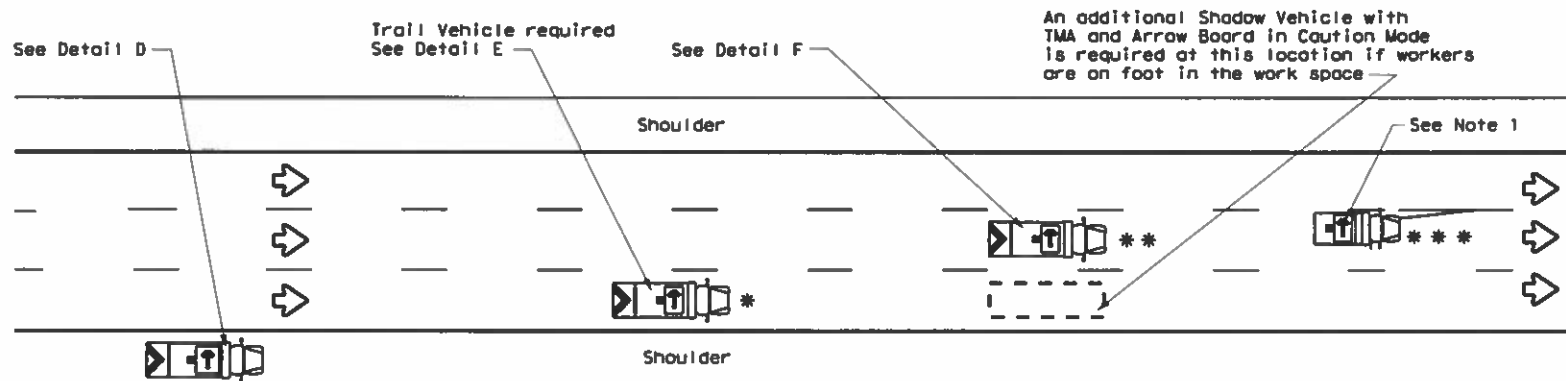


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DATE: FILE:



**RIGHT LANE CLOSURE ON DIVIDED HIGHWAY - TCP(3-2a)**



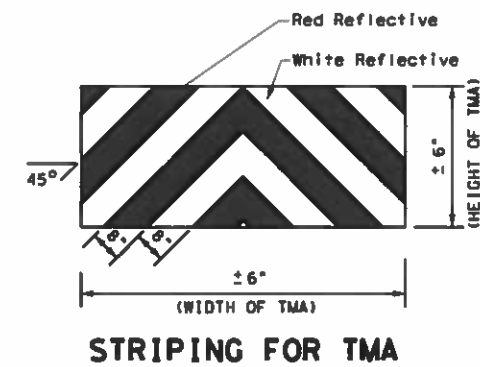
**INTERIOR LANE CLOSURE ON MULTI-LANE DIVIDED HIGHWAY - TCP(3-2b)**

LEGEND		
* Trail Vehicle	ARROW BOARD DISPLAY	
** Shadow Vehicle		
*** Work Vehicle		RIGHT Directional
Heavy Work Vehicle		LEFT Directional
Truck Mounted Attenuator (TMA)		Double Arrow
Traffic Flow		CAUTION (Alternating Diamond or 4 Corner Flash)

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

**GENERAL NOTES**

- ADVANCE WARNING, TRAIL and SHADOW vehicles shall be equipped with Type B or Type C flashing arrow boards as per the Barricade and Construction (BC) standards. Arrow boards on WORK vehicles will be optional based on the type of work being performed. The arrow boards shall be operated from inside the vehicle.
- For TCP(3-2a) the Engineer will determine if the TRAIL VEHICLE is required based on prevailing roadway conditions, traffic volume, and sight distance restrictions. All other vehicles shown for both TCP(3-2a) and TCP(3-2b) are required.
- The use of amber high intensity rotating, flashing, oscillating, or strobe lights on vehicles are required. Blue high intensity rotating, flashing, oscillating or strobe lights when mounted on the driver's side of the vehicle may be operated simultaneously with the amber beacons or strobe lights.
- The use of truck mounted attenuators (TMA) on the ADVANCE WARNING, SHADOW, and TRAIL vehicles are required.
- Reflective sheeting on the rear of the TMA shall meet or exceed the reflectivity and color requirements of DMS B300, Type A.
- Each vehicle shall have two-way radio communication capability.
- When work convoys must change lanes, the TRAIL VEHICLE should change lanes first to shadow the other convoy vehicles.
- Vehicle spacing between the TRAIL VEHICLE and the SHADOW VEHICLE will vary depending on sight distance restrictions. Motorists approaching the work convoy should be able to see the TRAIL VEHICLE in time to slow down and/or change lanes as they approach the TRAIL VEHICLE. Vehicle spacing between the WORK VEHICLE and SHADOW VEHICLE may vary according to terrain, work activity and other factors.
- Standard 48" X 48" diamond shaped warning signs with the same message as those shown may be used where adequate mounting space exists.
- The signs shown should be used on the Advance Warning Vehicle. As an option, a portable changeable message sign (PCMS) or a truck mounted changeable message sign (TMCMS) with a minimum character height of 12", and displaying the same legend may be substituted for these signs. An appropriate directional arrow display, simulating the size and legibility of the flashing arrow board, must be used in the second phase of the PCMS/TMCMS message. When this is done, the arrow board will not be required on the Advance Warning Vehicle.
- Standard diamond shape versions of the CW20-5 series signs may be used as an option if the rectangular signs shown are not available.
- The principles on this sheet may be used to close lanes from the left side of the roadway considering the number of lanes, shoulder width, sight distance, and ramp frequency.
- Signs and flashing arrow board modes shall be appropriately altered when implementing left lane closures or interior closures which close the left lanes.
- The Advance Warning Vehicle may straddle the edge line when shoulder width makes it necessary.



Traffic Operations Division Standard

**TEXAS DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN  
MOBILE OPERATIONS  
DIVIDED HIGHWAYS**

**TCP(3-2)-13**

FILE: tcp3-2.dgn	DR: TxDOT	CR: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT December 1985	CONT SECT	JOB	HIGHWAY	
REVISIONS	6390 01	001	VARIOUS	
2-94 4-98	DIST	COUNTY	SHEET NO.	
8-95 7-13	01	GRAYSON	9	
1-97				

176