

CONT	SECT	JOB	HIGHWAY
6461	54	001	SH 71
DIST	COUNTY		SHEET NO.
AUS	BASTROP		1

**STATE OF TEXAS**  
**DEPARTMENT OF TRANSPORTATION**

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**PLANS OF PROPOSED**  
**STATE HIGHWAY ROUTINE MAINTENANCE**

PROJECT NUMBER  
RMC 646154001

**BASTROP**  
**SH 71**

FROM: VARIOUS LOCATIONS  
TO: IN BASTROP CO.

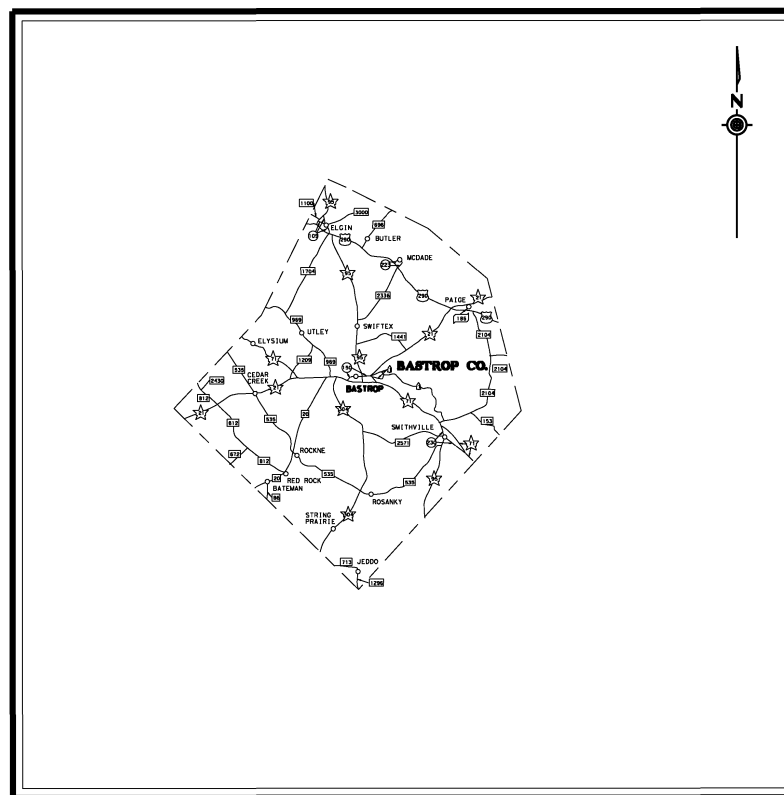
FOR THE CONSTRUCTION OF MISCELLANEOUS WORK  
CONSISTING OF SWEEPING AND CLEANING HIGHWAY RIGHT OF WAY

**FINAL PLANS**

DATE OF LETTING: \_\_\_\_\_  
DATE WORK BEGAN: \_\_\_\_\_  
DATE WORK COMPLETED AND ACCEPTED: \_\_\_\_\_  
FINAL CONTRACT COST: \$ \_\_\_\_\_  
CONTRACTOR: \_\_\_\_\_  
LIST OF APPROVED CHANGE ORDERS:

I CERTIFY THAT THIS PROJECT  
WAS CONSTRUCTED IN SUBSTANTIAL  
COMPLIANCE WITH THE FINAL AS-BUILT  
PLANS AND SPECIFICATIONS.

\_\_\_\_\_  
AREA ENGINEER P. E. DATE



LOCATION MAP NOT TO SCALE

EXCEPTIONS: NONE  
EQUATIONS: NONE

RECOMMENDED FOR LETTING: 5/31/2024

DocuSigned by:  
*Gisel Carrasco, P.E.*  
097829A06497450  
DISTRICT MAINTENANCE ENGINEER

SUBMITTED FOR LETTING: 5/31/2024

DocuSigned by:  
*Diana K. Schulzes P.E.*  
6775445255A3482  
AREA ENGINEER

APPROVED FOR LETTING: 6/3/2024

DocuSigned by:  
*Omar X. De Leon, P.E.*  
D18DBE2B94AF4FA  
DIRECTOR OF OPERATIONS

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION ON NOVEMBER 1, 2024 AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS, SHALL GOVERN ON THIS PROJECT.



**GENERAL**

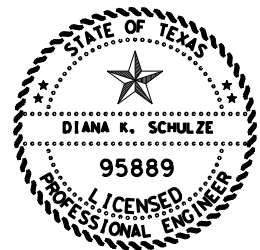
- 1 TITLE SHEET
- 2 INDEX OF SHEETS
- 3, 3A-3B GENERAL NOTES
- 4 ESTIMATE & QUANTITY
- 5 SUMMARY SHEET

**TRAFFIC CONTROL PLAN STANDARDS**

- 6 TCP (3-2) -13

**MAINTENANCE DETAILS**

- 7 SWEEPING HIGHWAYS SWEEP - 04



THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY SUPERVISION AND ARE APPLICABLE TO THIS PROJECT.

DocuSigned by:

*Diana K. Schulze P.E.*

P. E.

6/3/2024

0775445255A0402

DIANA K. SCHULZE

DATE

**Austin District  
Bastrop Area Office**



**INDEX OF SHEETS**

© 2024	CONT	SECT	JOB	HIGHWAY
DS: CK:	6461	54	001	US 71, ETC.
DW: CK:	DIST		COUNTY	SHEET NO.
	AUS	BASTROP		2

**Project Number:** RMC 646154001  
**County:** BASTROP  
**Highway:** SH 71, ETC.

**Sheet: 3**  
**Control:** 6461-54-001

#### GENERAL NOTES:

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

Bastrop Area [Diana.Schulze@txdot.gov](mailto:Diana.Schulze@txdot.gov)

Questions and requests for documents will be accepted via the Letting Pre-Bid Q&A web page. 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. This webpage can be accessed from the Notice to Contractors dashboard located at the following Address: <https://tableau.txdot.gov/views/ProjectInformationDashboard/NoticetoContractors>

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.

Written notice will be given to begin work on this project.

Work must begin within seven (7) calendar days after such notification. Time charges will begin when work begins regardless if it falls within seven (7) calendar days of the notification to begin work.

The contractor will have **“ONE” (1)** year to complete all work under this contract.

Work under this contract shall consist of **“sweeping and cleaning”** at various locations in **“Bastrop County”**.

All types of cleaning and sweeping in this contract will include areas under and around all appurtenances to a facility.

The Department reserves the right to revise the sweeping schedule as it deems necessary.

Each contract is considered separate and individual from others. Requirements to complete work on any or all contracts may occur at the same time. If requests are issued at the same time, it is expected that the work will be completed in the time frame allowed.

#### ITEM 3 – AWARD AND EXECUTION OF CONTRACT

A work order will be issued in writing no later than the 1st of the month, for the monthly sweeping schedule including start date and work locations for that month.

Each work order sweeping cycle will be completed within a two-week period ending prior to the 24<sup>th</sup> of the month. Individual tracts will be worked consecutively until each work order is completed.

**Project Number:** RMC 646154001  
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**Highway:** SH 71, ETC.

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**Control:** 6461-54-001

Failure to maintain this frequency will be considered a deviation from the contract specifications and may result in default of contract.

Sufficient equipment and personnel to maintain the work schedule will always be maintained. This may require multiple crews.

#### ITEM 8 – PROSECUTION AND PROGRESS

Working days will be charged in accordance with 8.3.1.4, “Standard Workweek.” Work will be completed within 10 working days of work order issue, unless otherwise approved by the Engineer. The Contractor will be charged liquidated damages for each work item not completed in accordance with the “Schedule of Liquidated Damages” for each workday until the work is completed and accepted by the Engineer. Liquidated damages will be based on the total contract amount. The costs associated with these measures will be deducted from any monies due to the Contractor.

In addition to being charged for liquidated damages, if the Contractor does not complete the work in the allotted workdays for each work item as noted in the plans, the Contractor will be written a letter the next day giving (10) calendar days from the date of the letter to complete the work, or the contract will be considered in default.

If the Contractor fails to complete work with the allowable times as noted in the plans, the Department may take steps to have the work completed/corrected. This may include the use of State Forces or Emergency Contracts. Once the Contractor is notified that the Department is taking corrective action, the Contractor shall refrain from performing work on the item in question unless approved by the Engineer. The costs associated with these measures will be deducted from any monies due to the Contractor.

#### ITEM 500 – MOBILIZATION

One Mobilization will be paid for each callout performed.

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

Traffic control will not be paid for directly and will be subsidiary to various bid items.

The Texas Manual on Uniform Traffic Control Devices must be complied with during all operations under this contract.

All sweepers and TMA’s shall have a panel Type “B” (60” x 30”) Arrow Display properly mounted and operating on the vehicle.

All sweepers and trucks involved in work under this contract shall be equipped, as approved by the Engineer, with a permanently mounted 360 degree revolving or strobe warning light with amber lens. This light shall have a minimum lens height of 5 inches and a diameter of 5 inches. The light shall have a mounting height of not less than 6 feet above the roadway surface and shall be visible from all sides. This equipment shall also have attached at each side of the rear end of the vehicle an approved orange warning flag mounted not less than 8 feet above the roadway surface.

Use CW20-6 signs to indicate lanes being blocked during sweeping operations.

All workers shall wear reflective safety vests conforming to OSHA standards.

**ITEM 738 – CLEANING AND SWEEPING HIGHWAYS**

The contractor must submit a detailed plan for disposal of sweeping debris for approval prior to beginning work. Do not stockpile swept material on ROW prior to disposal. Remove and dispose of accumulated material within the same day.

The Engineer may direct that a complete cycle is not required, and for a partial cycle to occur instead. Payment for this partial cycle will be paid at a pro-rated amount. No additional monetary compensation is due to the Contractor when this occurs.

The Contractor shall have no less than 2 (two) sweepers per operation.

Take measures to ensure debris from sweeping operations does not clog drainage inlets.

The contractor shall be required to remove dead animals in the sweeping path only.

The Contractor shall need to wet the pavement as directed by the Engineer during sweeping operations to control the dust for the improved visibility of operations and safety of the traveling public. This shall be accomplished on all roadway when using Type 3.1, Type 3.2, Type 3.3, and Type 3.7. This work shall be considered subsidiary to this bid item.

When a construction work zone is within the work limits, sweep around construction barriers, cones, barrels, etc. All traffic control devices that are damaged due to sweeping work in these areas shall be replaced at the contractor's expense. This work will not be paid for directly but shall be subsidiary to Item 738.

**Type 3.1. Center Median Cleaning and Sweeping:**

Work includes the left turn lanes including shoulders and crossovers regardless of width.

Work includes all left-hand bridge shoulders regardless of width.

**Type 3.2. Outside Main Lane Cleaning and Sweeping:**

Work includes the right turn lanes including shoulders and crossovers regardless of width.

Work includes all right-hand bridge shoulders regardless of width and all intersecting driveways to the right of way line or as shown on the plans.

**Type 3.4. Entrance and Exit Ramp Cleaning and Sweeping:**

Area includes concrete and asphalt flush or raised gore locations at entrance and exit ramps. Gore locations will be swept by machine, hand, or other suitable means.

Area includes right and left paved shoulders and paved gutters of interchange direct connect structures exiting from the left- or right-hand side of the main lanes.

**Type 3.7. Aggregate Removal:**

Limits of aggregate removal includes bridge length plus 200 feet of bridge approach on each end as well as the outside and inside shoulders for each bridge structure and approach. Separate bridge structures for a crossing shall be considered as one bridge for purposes of determining quantities. Response to a verbal notice for aggregate removal will be required within 24 hours by having equipment on site doing the work. This work shall be completed within 10 working days from the date of issuance of notice from the Engineer.

**Type 3.8. Spot Sweeping:**

Work callout request can be due to spills or other unexpected circumstances. Sweeping will begin within 3 hours of notification, unless direct otherwise by the Engineer. A minimum of one (1) lane miles will be paid for each request. Failure to respond to a request will be considered default in accordance with Article 8.7 of the Standard Specifications.

**Type 3.1. Center Median Cleaning and Sweeping. This item includes the following locations:**

Highway	Limits: From	Limits: To	Apprx. Miles/ Cycle	Apprx. No. of Cycles	Apprx. Total Miles
SH 71	SH 21	Tahitian Dr.	8	12	96
Note: Includes ramps, bridges, underpasses					

**TYPE 3.1 TOTAL  
MILES =**

**96**

**Type 3.2. Outside Main Lane Cleaning and Sweeping. This item includes the following locations:**

Highway	Limits: From	Limits: To	Apprx. Miles/ Cycle	Apprx. No. of Cycles	Apprx. Total Miles
SH 71	SH 21	Tahitian Dr.	8	12	96

**TYPE 3.2. TOTAL MILES =**

**96**

**Type 3.4. Entrance and Exit Ramp Cleaning and Sweeping:**

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**County:** BASTROP  
**Highway:** SH 71, ETC.

**Sheet: 3B**  
**Control:** 6461-54-001

Sheet: 3B  
Control: 6461-54-001

<b>Highway</b>	<b>Limits: From</b>	<b>Limits: To</b>	<b>Apprx. Miles/ Cycle.</b>	<b>Apprx. No of Cycles</b>	<b>Apprx. Total Miles.</b>
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SH 71	SH 21	Tahitian Dr.	1	12	12
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**TYPE 3.4 TOTAL MILES = 12**

**Type 3.7 Aggregate Removal. This item includes the following locations:**

<b>Highway</b>	<b>Limits: From</b>	<b>Limits: To</b>	<b>Apprx. Miles/ Cycle.</b>	<b>Apprx. No of Cycles</b>	<b>Apprx. Total Miles.</b>
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SH 71	SH 21	Tahitian Dr.	8	6	48
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**TYPE 3.7 TOTAL MILES = 48**

Plans may be reviewed at the *Bastrop Area Office, 174 SH 21 E, Bastrop, TX 78602*. The contact person is *Diana Schulze, 512-321-2195*.



# Estimate & Quantity Sheet

CONTROLLING PROJECT ID 6461-54-001

DISTRICT Austin  
HIGHWAY SH0071

COUNTY Bastrop

CONTROL SECTION JOB				6461-54-001		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00206039			
COUNTY				Bastrop			
HIGHWAY				SH0071			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	500-6033	MOBILIZATION (CALLOUT)	EA	24.000		24.000	
	738-6002	CLEANING / SWEEPING (CENTER MEDIAN)	MI	96.000		96.000	
	738-6004	CLEANING / SWEEPING (OUTSIDE MAIN LANE)	MI	96.000		96.000	
	738-6008	CLEANING / SWEEPING(ENTRANCE/EXIT RAMP)	MI	12.000		12.000	
	738-6009	CLEANING / SWEEPING (AGGREGATE REMOVAL)	MI	48.000		48.000	
	738-6010	CLEANING / SWEEPING (SPOT)	MI	30.000		30.000	
	6185-6005	TMA (MOBILE OPERATION)	DAY	90.000		90.000	

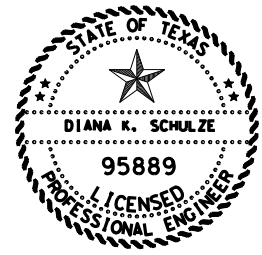
CENTER MEDIAN CLEANING AND SWEEPING					
Highway	Limits: From	Limits: To	MIL	#Cycles	Total Miles
SH 71	SH 21	Tahitian Dr.	8	12	96
TOTAL MILES					96

OUTSIDE MAIN LANE CLEANING AND SWEEPING					
Highway	Limits: From	Limits: To	MIL	#Cycles	Total Miles
SH 71	SH 21	Tahitian Dr.	8	12	96
TOTAL MILES					96

ENTRANCE AND EXIT RAMP CLEANING AND SWEEPING					
Highway	Limits: From	Limits: To	MIL	#Cycles	Total Miles
SH 71	SH 21	Tahitian Dr.	1	12	12
TOTAL MILES					12

AGGREGATE REMOVAL					
Highway	Limits: From	Limits: To	MIL	#Cycles	Total Miles
SH 71	Travis C/L	SH 21	8	6	48
TOTAL MILES					48

DocuSigned by:  
*Diana K. Schulze P.E.* P.E. 6/3/2024  
6775445255A8483 DIANA K. SCHULZE DATE



\* QUANTITIES ARE FOR BIDDING PURPOSES ONLY THE ACTUAL QUANTITIES MAY BE DETERMINED IN THE FIELD

NOTES:  
 1. SWEEPING CONTRACT INCLUDES RAMPS, BRIDGES, AND UNDERPASSES.

**Austin District  
Bastrop Area Office**

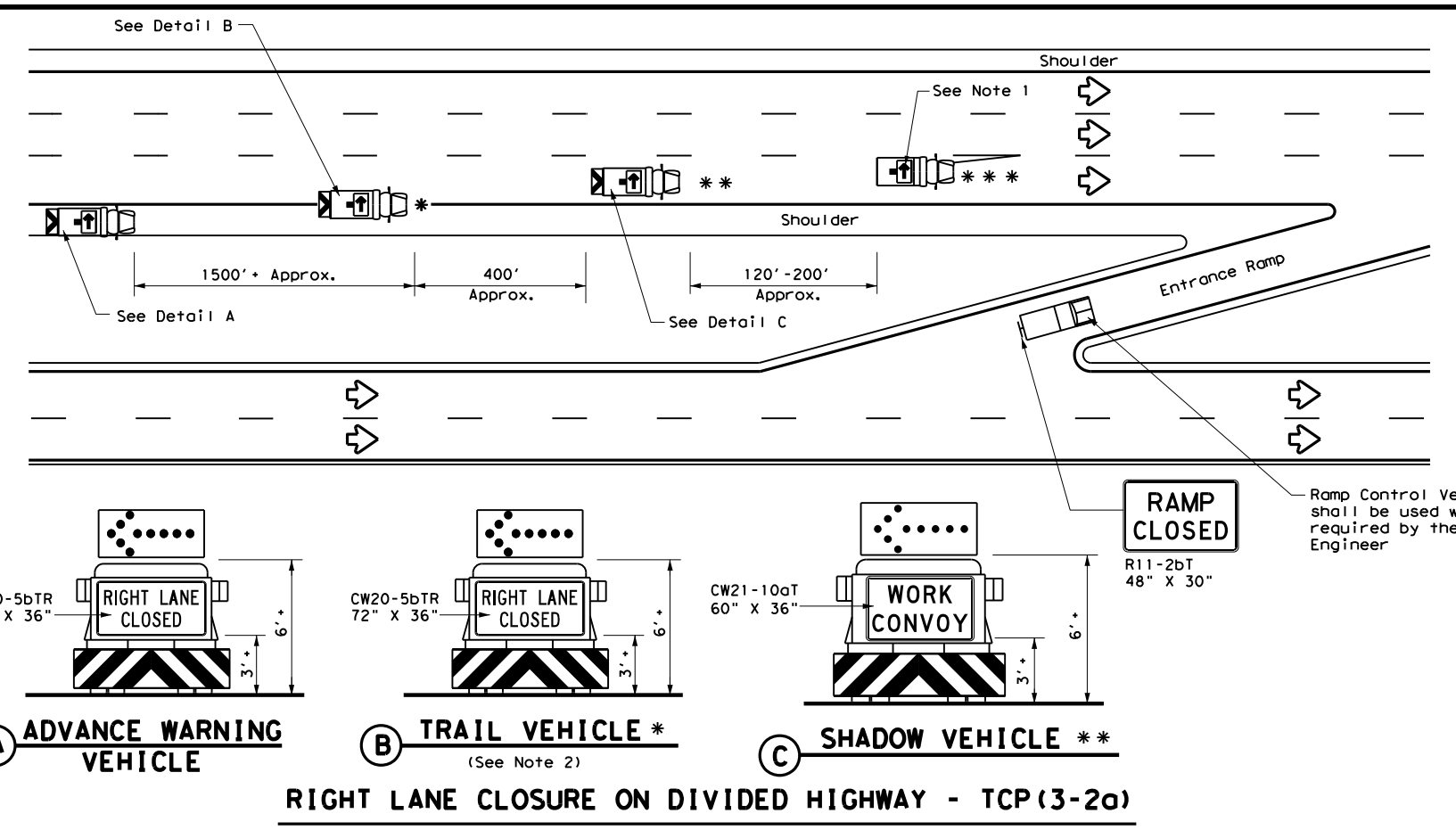
**SUMMARY SHEET**

© 2024	CONT	SECT	JOB	HIGHWAY
DS: CK: 6461	54	001	SH 71	
DW: CK:	DIST	COUNTY	SHEET NO.	
	AUS	BASTOP	5	

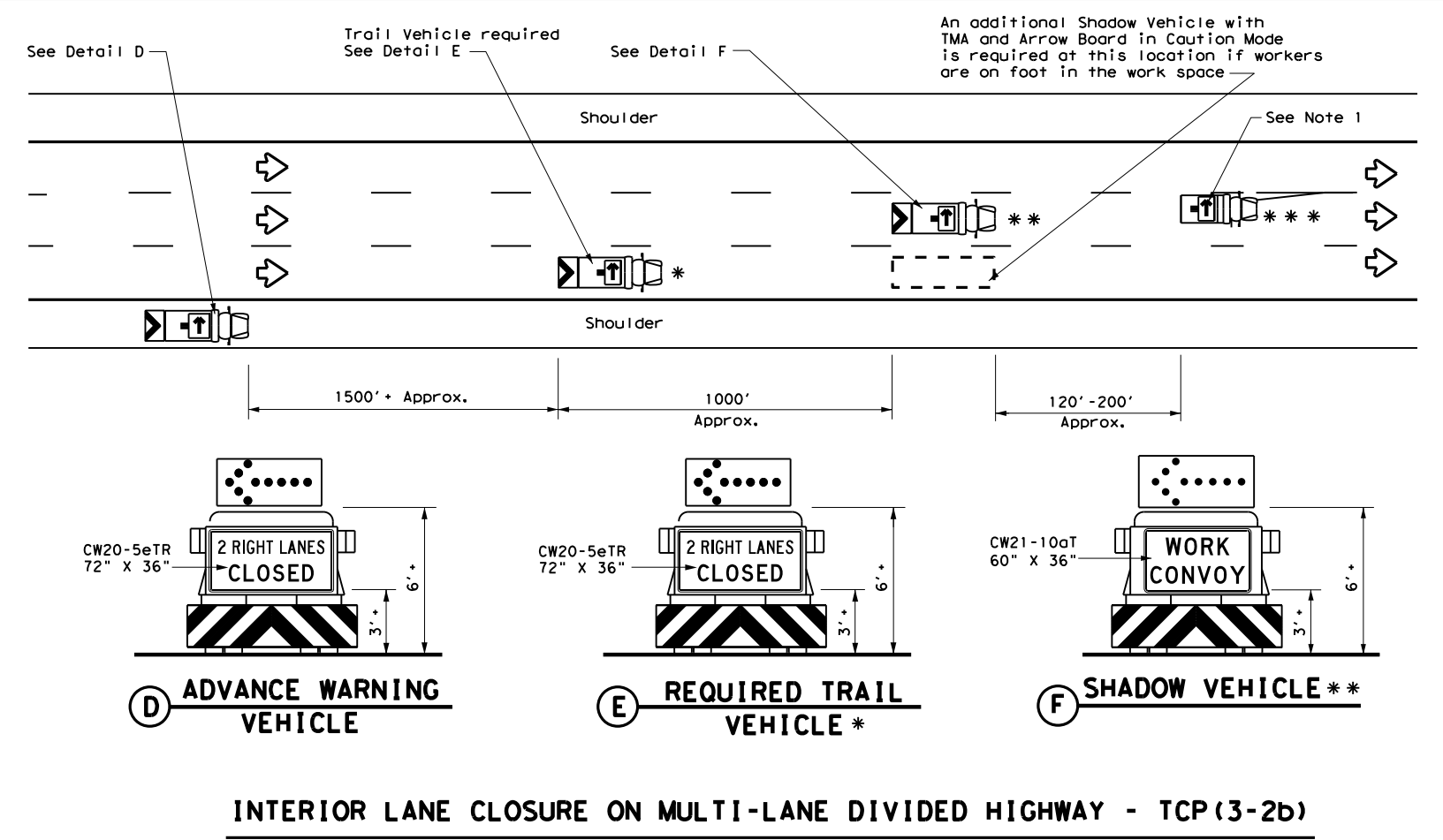
DATE: 3/26/2024 9:34AM  
FILE: 6405-90-001

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DATE: 3/26/2024 9:44AM  
FILE: TCP(3-2)-13



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



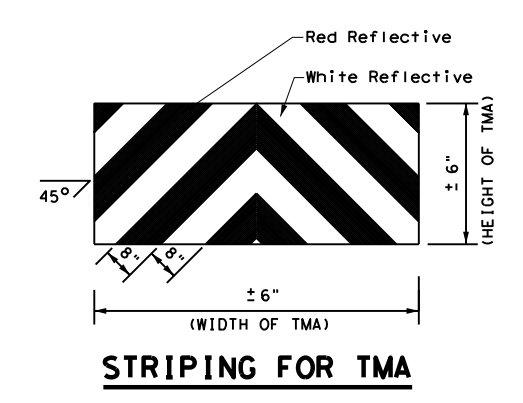
**INTERIOR LANE CLOSURE ON MULTI-LANE DIVIDED HIGHWAY - TCP(3-2b)**

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 8300, 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 edgeline when shoulder width makes it necessary.



**STRIPING FOR TMA**

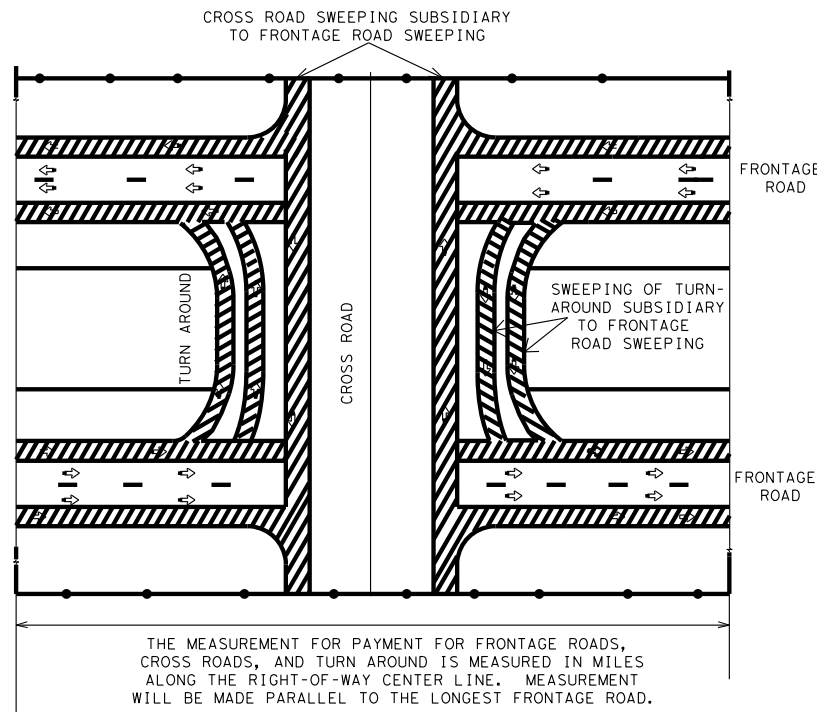
		<b>Traffic Operations Division Standard</b>	
<b>TRAFFIC CONTROL PLAN MOBILE OPERATIONS DIVIDED HIGHWAYS</b>			
<b>TCP(3-2)-13</b>			
FILE: tcp3-2.dgn	DW: TxDOT	CK: TxDOT	DW: TxDOT
© TxDOT December 1985	CONT	SECT	JOB
REVISIONS	6461	54	001
2-94 4-98	DIST		COUNTY
8-95 7-13	AUS		BASTROP
1-97			SHEET NO.
			6



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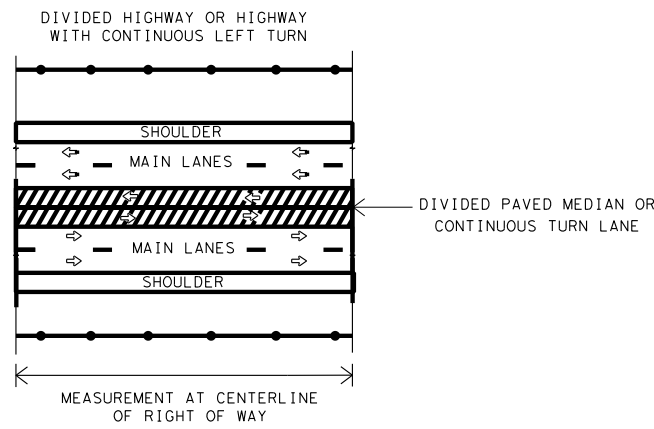
LEVELS DISPLAYED  
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16  
 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32  
 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48  
 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63

FRONTAGE ROAD SWEEPING

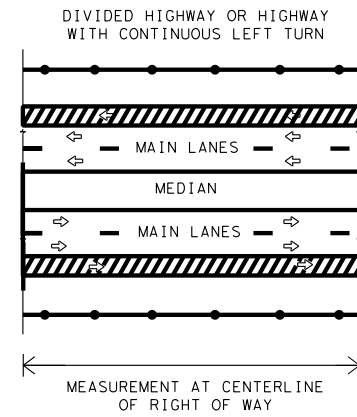


THE MEASUREMENT FOR PAYMENT FOR FRONTAGE ROADS, CROSS ROADS, AND TURN AROUND IS MEASURED IN MILES ALONG THE RIGHT-OF-WAY CENTER LINE. MEASUREMENT WILL BE MADE PARALLEL TO THE LONGEST FRONTAGE ROAD.

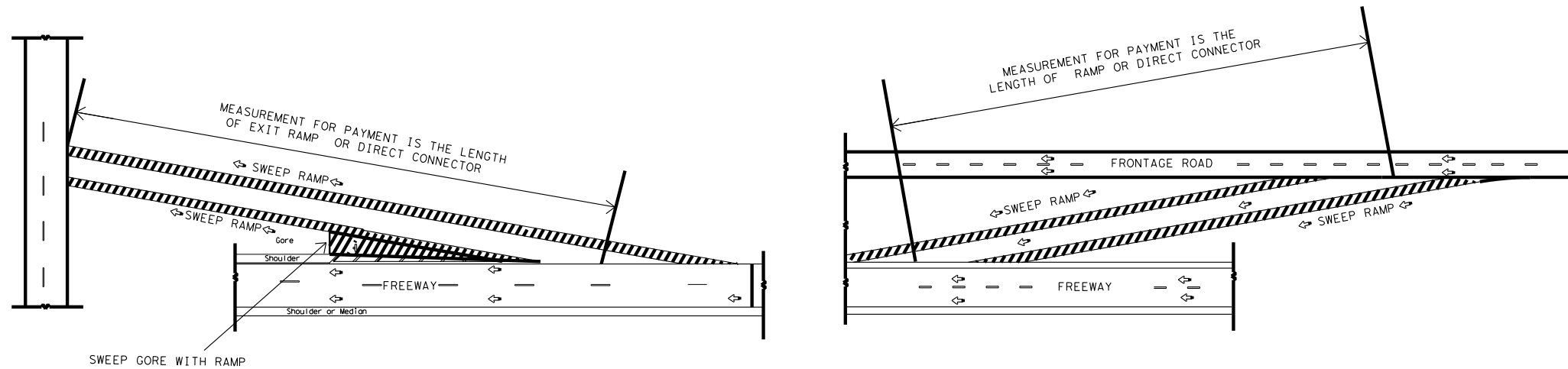
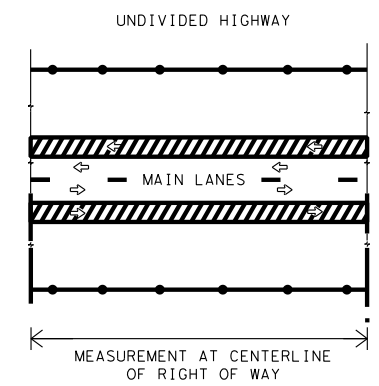
CENTER MEDIAN SWEEPING



OUTSIDE MAIN LANE SWEEPING

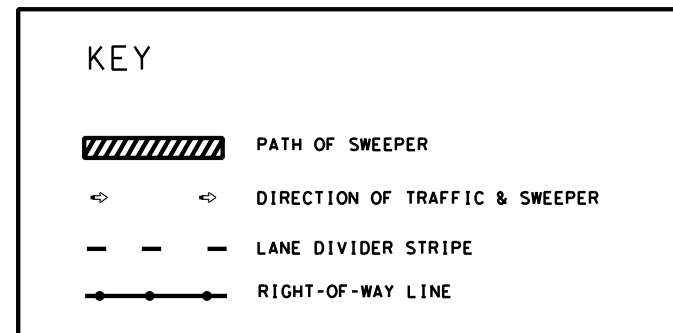


OUTSIDE MAIN LANE SWEEPING



RAMPS OR DIRECT CONNECTORS

PAYMENT ITEM	NORMAL NUMBER OF PASSES OF THE SWEEPER	MEASUREMENT OF CENTER LINE MILES	OTHER AREAS SUBSIDIARY TO PAYMENT ITEM
SWEEPING (CENTER MEDIAN)	2	OF RIGHT OF WAY	NONE
SWEEPING (OUTSIDE MAIN LANE)	2	OF RIGHT OF WAY	NONE
SWEEPING (ONE FRONTAGE ROAD)	2	OF RIGHT OF WAY	CROSS ROADS & TURN AROUNDS
SWEEPING (TWO FRONTAGE ROADS)	4	OF RIGHT OF WAY	CROSS ROADS & TURN AROUNDS
SWEEPING (RAMP)	2	OF RAMP	GORE AREA
SWEEPING (DIRECT CONNECTOR)	2	OF CONNECTOR	GORE AREA



Texas Department of Transportation  
 Maintenance Division  
 Standard Plans

SWEEPING HIGHWAYS

SWEEP - 04

SHEET 1 OF 1 NOT TO SCALE

FILE: SWEEP04.DGN	DN: LJB	CK: JG	DW: -	CK: -	NEG NO.:
©TxDOT MAY 2004		STATE DISTRICT	FEDERAL REGION	FEDERAL AID PROJECT	SHEET
REVISED:					7
REVISED:		COUNTY	CONTROL	SECTION	JOB
REVISED:		BASTROP	6461	54	001 US 71