

FED. ROAD DIV. NO.	STATE	MAINTENANCE PROJECT NO.	SHEET NO.
6	TEXAS	RMC 6461-95-001	1
STATE DIST. NO.	COUNTY	STATE CONTROL NO.	HIGHWAY NO.
HOU	WALLER	6461-95-001	US 290, ETC.

STATE OF TEXAS

DEPARTMENT OF TRANSPORTATION

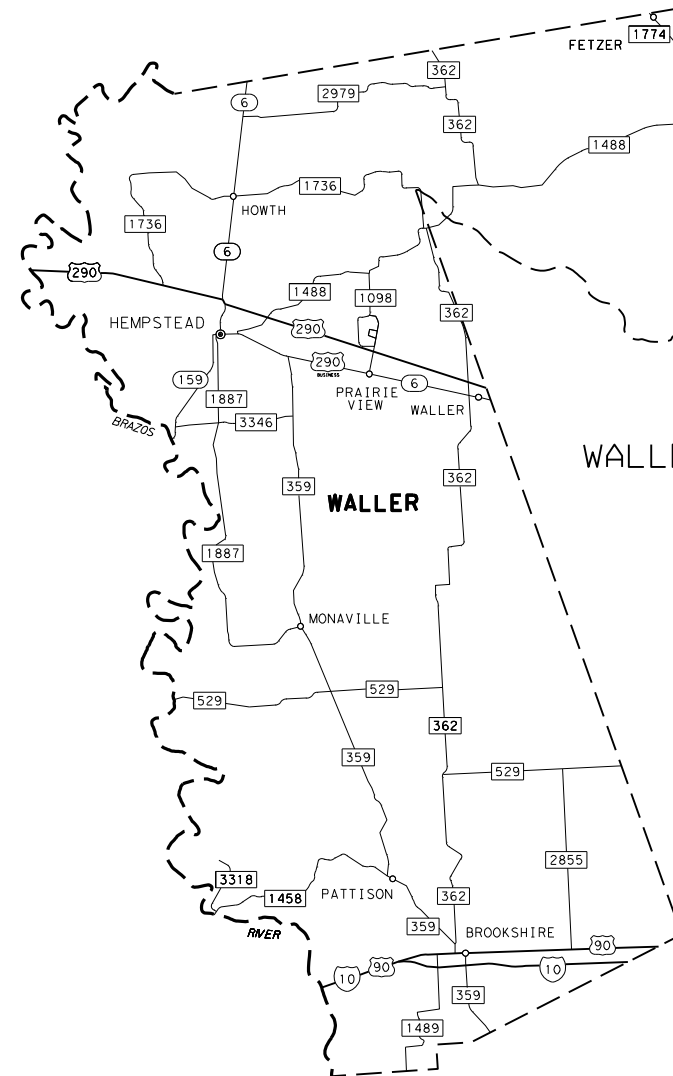
PLANS OF PROPOSED HIGHWAY ROUTINE MAINTENANCE CONTRACT

TYPE OF WORK
MOWING HIGHWAY RIGHT OF WAY

PROJECT NO.: RMC 6461-95-001

HIGHWAY: US 290, ETC.

LIMITS OF WORK: VARIOUS HIGHWAYS IN WALLER COUNTY



LOCATION MAP
WALLER COUNTY MAINTENANCE AREA

CONTRACTOR: _____
 DATE OF LETTING: _____
 DATE WORK BEGAN: _____
 DATE OF WORK COMPLETED: _____
 DATE WORK ACCEPTED: _____
 FINAL CONTRACT COST: _____



© 2024 By TEXAS DEPARTMENT OF TRANSPORTATION;
ALL RIGHTS RESERVED

SUBMITTED FOR LETTING: 12/28/2023

DocuSigned by:
Carlos M. Zepeda, Jr., P.E.
 AREA ENGINEER
 999EB2AF5ACE472...

RECOMMENDED FOR LETTING: 2/14/2024

DocuSigned by:
Melody Galland
 DIRECTOR OF MAINTENANCE
 A667165730A3459

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

EXCEPTIONS: NONE
EQUATIONS: NONE

SHEET NO. DESCRIPTION

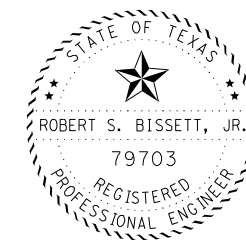
I. GENERAL

- 1 TITLE SHEET
- 2 INDEX OF SHEETS
- 3, 3A-3C GENERAL NOTES
- 4 ESTIMATE & QUANTITY SHEET
- 5-7 MOWING TRACTS CHART

II. TRAFFIC CONTROL PLAN

STANDARDS

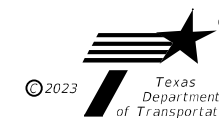
- * 8 ROADSIDE TRAFFIC CONTROL PLAN RS-TCP-05



* THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

Robert S. Bissett, Jr. P.E. 12/28/23
DATE

INDEX OF SHEETS



CONT	SECT	JOB	HIGHWAY
6461	95	001	US 290, ETC.
DIST			COUNTY
HOU			WALLER
			SHEET NO.
			2

County: Waller

Highway: US 290, etc.

GENERAL NOTES

SUPERVISION:

All work will be scheduled and directed by, and request for payment addressed to:

Clifford Dawson
Waller Area Maintenance Supervisor
400 FM 1488
Hempstead, Texas 77445
(979) 921-2400

General:

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

Robert S. Bissett, Jr., P.E.,
Phone: (281) 238-7903
Email: Robert.Bissett@txdot.gov

Clifford Dawson
Phone: (979) 921-2400
Email: Clifford.Dawson@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 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 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.

This is a Routine Maintenance Non-Site-Specific Call-Out contract.

The Contractor will begin call out work within the required time for each work order. Work orders are expected to be completed per the contract plans within the number of days allowed for each work order. All call out work orders will have a begin date and number of working days. The Contractor will begin work within 48 hours of notification for routine call outs, unless otherwise approved by the Engineer. Work will be completed within the required number of working days. The Contractor will begin work within 4 hours of notification for emergency call outs and complete within 48 hours, unless otherwise approved by the Engineer. Failure to begin work within the required time and proceed to completion within the required time will result in the assessment of liquidated damages.

County: Waller

Highway: US 290, etc.

Plan and execute all work in a neat manner.

Perform work on an as-needed basis where directed.

Please contact Mr. Clifford Dawson, Waller Maintenance Supervisor at (979) 921-2400 to arrange for a site visit.

Limits of work will be those areas on State maintained right-of-way in Waller County.

The mowing cycle months are: May, July and October. A mowing cycle cannot begin before the first day of a given mowing cycle month, unless directed by the Engineer.

All vegetation in the entire right of way, except for non-mow areas, must be mowed. This includes “pop ups” (vegetation that springs back). These “pop ups” must be re-mowed within a 48 hour period.

Notify the Department by 7:30 a.m. when scheduled work is cancelled for any reason.

Do not perform any work if impending weather conditions may result in rainfall that may impair the quality of the finished work.

Tolls incurred by the Contractor are incidental to the various bid items.

Procure permits and licenses, which are to be issued by the City, County, or Municipal Utility District.

General: Site Management

Do not mix or store materials, or store or repair equipment, on top of concrete pavement or bridge decks unless authorized by the Engineer. Permission will be granted to store materials on surfaces if no damage or discoloration will result.

Personal vehicles of employees are not permitted to park within the right of way, including sections closed to public traffic. Employees may park on the right of way at the Contractor’s office, equipment, and materials storage yard sites.

Assume ownership of debris and dispose of at an approved location. Do not dispose of debris on private property unless approved in writing by the District Engineer.

General: Traffic Control and Construction

When design details are not shown on the plans, provide signs and arrows conforming to the latest “Standard Highway Sign Designs for Texas” manual.

General: Utilities

Consider the locations of underground utilities depicted in the plans as approximate and employ responsible care to avoid damaging utility facilities. Depending upon scope and magnitude of

County: Waller

Highway: US 290, etc.

Control: 6461-95-001

planned construction activities, advanced field confirmation by the utility owner or operator may be prudent. Where possible, protect and preserve permanent signs, markers, and designations of underground facilities.

If the Contractor damages or causes damage (breaks, leaks, nicks, dents, gouges, etc.) to the utility, contact the utility facility owner or operator immediately.

Be aware that an operational Computerized Transportation Management System (CTMS) exists within the limits of this project and that the system must remain operational throughout construction. If the Contractor damages or causes damage to this system, repair such damage within 8 hours of occurrence at no cost to the Department. In the event of system damage, notify the Director of Traffic Management Systems at 713-881-3283 within one hour of occurrence. Failure of the Contractor to repair damage to the main fiber optic cable and CCTV cable trunk lines, which convey all corridor information to TranStar, will result in the Contractor being billed for the full cost of emergency repairs.

At least 72 hours before starting work, make arrangements for locating existing Department-owned above ground and underground fiber optic, communications, power, illumination, and traffic signal cabling and conduit. Do this by calling the Department's Houston District Traffic Signal Operations Office at 713-802-5662, or by e-mailing the Department's Houston District Traffic Signal Operations Office at HOU-LocateRequest@txdot.gov, to schedule marking of underground lines on the ground. Use caution if working in these areas to avoid damaging or interfering with existing facilities.

If overhead or underground power lines need to be de-energized, contact the electrical service provider to perform this work. Costs associated with de-energizing the power lines or other protective measures required are at no expense to the Department.

If working near power lines, comply with the appropriate sections of Texas State Law and Federal Regulations relating to the type of work involved.

Item 7: Legal Relations and Responsibilities

This project does not require a U.S. Army Corps of Engineers (USACE) Section 404 Permit before letting, but if a permit is needed during construction, assume responsibility for preparing the permit application. Submit the permit application to the Department's District Environmental Section for approval. Once the permit application is approved, the Department will submit it to the USACE. Assume responsibility for the requested revisions, in coordination with the Department's District Environmental Section.

If the work is on or in the vicinity of an at-grade railroad crossing, involves incidental work on railroad right of way, or involves construction of a railroad grade separation structure, notify the railroad company's Division Engineer and the Department's Project Engineer at least 30 days before performing any work on the railroad right of way and make arrangements for railroad flaggers unless otherwise shown in the contract. Obtain the required Railroad Right of Entry Permit from the railroad company. Payment of applicable permit fees is the responsibility of the

County: Waller

Highway: US 290, etc.

Control: 6461-95-001

Contractor. Acquiring the Railroad Right of Entry Permit is a lengthy process, allow sufficient time for this.

The nesting / breeding season for migratory birds is February 15 through September 30.

Conduct any tree removal outside of the migratory bird nesting season. If this is not possible due to scheduling, then exercise caution to remove only those trees with no active nests. Do not destroy nests on structures or in trees within the project limits during the nesting / breeding season.

Take measures to prevent the building of nests on any structures or trees within the project limits throughout the duration of the construction if work / removal will be performed during the nesting / breeding season. This can be accomplished by application of bird repellent gel, netting by hand every 3 to 4 days, or any other non-threatening method approved by the Houston District Environmental Section. Obtain this approval well in advance of the planned use. Contact the Houston District Environmental Section at 713-802-5244. The cost of this work is subsidiary to the various bid items.

This project is on a hurricane evacuation route. Provide at the pre-construction meeting a written plan outlining procedures to suspend work, secure the job site, and safely handle traffic through and across the project in the event of a hurricane evacuation.

During the hurricane season (June 1 through November 30), do not close any travel lanes except when the Contractor can demonstrate that he/she can provide labor, equipment, material, a work plan, and quality of work to satisfactorily return all lanes to an open, all-weather travel surface within 3 days of receiving written or verbal notice but no later than 3 days before the predicted hurricane landfall. Construction of temporary lanes to an all-weather surface will be paid for in accordance with Article 9.7, "Payment for Extra Work and Force Account Method."

In addition to lane closures, cease work 3 days before the predicted hurricane landfall on or near the roadway that adversely impacts the flow of traffic and reduces the capacity of the highway during an evacuation. Vehicles of the Contractor, subcontractors, or material suppliers will not be allowed to enter or exit the traffic stream, including those for the purpose of material hauling and delivery, and mobilization or demobilization of equipment. When directed, this prohibition will include a reasonable time period for the evacuees to return to their point of origin.

No significant traffic generator events have been identified.

Item 8: Prosecution and Progress

Working days will be computed and charged based on a calendar day workweek in accordance with Section 8.3.1.4.

Working days will be charged Monday through Friday, excluding national or state holidays, if weather or other conditions permit the performance of the principal unit of work underway, as determined by the Engineer, for a continuous period of at least 7 hr. between 7:00 A.M. and 6:00 P.M., unless otherwise shown in the Contract. The Contractor has the option of working on Saturdays or state holidays. Provide sufficient advance notice to the Engineer when scheduling

County: Waller

Highway: US 290, etc.

Control: 6461-95-001

work on Saturdays. Work on Sundays and national holidays will not be permitted without written permission of the Engineer. If work requiring an Inspector to be present is performed on a Saturday, Sunday, or holiday, and weather or other conditions permit the performance of work for 7 hr. between 7:00 A.M. and 6:00 P.M., a working day will be charged.

Item 500: Mobilization

This contract consists of Call-out Mobilization for cycled work.

Item 502: Barricades, Signs and Traffic Handling

Use a traffic control plan for handling traffic through the various phases of construction. Follow the phasing sequence unless otherwise agreed upon by the Area Engineer and the Project Manager. Ensure this plan conforms to the latest “Texas Manual on Uniform Traffic Control Devices” and the latest Barricade and Construction (BC) Standard Sheets.

Submit changes to the traffic control plan to the Area Engineer. Provide a layout showing the construction phasing, signs, striping, and signalizations for changes to the original traffic control plan.

Furnish and maintain the barricades and warning signs, including the necessary temporary and portable traffic control devices, during the various phases of construction. Place and construct these barricades and warning signs in accordance with the latest “Texas Manual on Uniform Traffic Control Devices” for typical construction layouts.

Cover work zone signs when work related to the signs is not in progress, or any hazard related to the signs no longer exists.

Keep the delineation devices, signs, and pavement markings clean. This work is subsidiary to the Item, “Barricades, Signs, and Traffic Handling.”

Do not mount signs on drums or barricades, except those listed in the latest Barricades and Construction standard sheets.

Use traffic cones for daytime work only; replace the cones with plastic drums during nighttime hours.

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.

Item 730: Roadside Mowing

Outfall ditches will be mowed and will be paid for under Full Width Mowing.

County: Waller

Highway: US 290, etc.

Control: 6461-95-001

Sheet 3B

Time charges will be suspended between mowing cycles.

The Contractor will be given written notification of when to begin mowing each cycle. Within the written notification, the specified areas (tracts) to be mowed, number of acres required for the mowing cycle, the number of working days allowed to complete the mowing cycle, and the date when the time charges for that mowing cycle to begin will be given. The Area Engineer may, at his/her discretion, reduce or alter the limits of each cycle. Time charge information will be documented in the project dairy and other documents related to this contract. This information will be provided to the Contractor upon request.

Mowing on this contract will be completed in increments known as a cycle. A cycle is defined as a group of mowing tracts or areas that must be completed one time within the time period specified herein.

All equipment will be pressure washed prior to beginning work and before leaving the job site.

Adjust mowers for a cutting height of approximately 7 inches. Trim around all poles, signs, trees and other appurtenances located within the R.O.W. Hand trimming is required; cut and/or trim grass to the height of seven (7) inches. The limits of these roadways will be determined by the Area Engineer and will be given in the written notification to the Contractor.

The required minimum mowing acres per normal working day will be 75 acres. This production rate was used to determine the completion time for each cycle and will be used to adjust the allowable completion time period should mowing areas be added to or removed from the cycle.

If the Contractor fails to finish the mowing necessary to complete the subject cycle in the working days specified, a time charge will be made for each working day thereafter. Working days established for the completion of a cycle is an essential element of the contract. For each working day that any work will remain uncompleted after the expiration of time specified for a given cycle, the amount per day in the Special Provision “Schedule of Liquidated Damages” (000--1243) will be deducted from the money due the Contractor, not as a penalty, but as liquidated damages.

In the event it becomes necessary not to mow construction areas, the subject quantities of the contract will be decreased in accordance with the terms and conditions of this contract.

The Engineer reserves the right to reduce or increase the number of acres to be completed each cycle. An adjustment in the time required to complete mowing the cycle will be made based on the production rate defined herein (75 acres per day).

Payment for those tracts of a cycle that has been completed (all mowing and trimming) will be made at the end of the pay period for that work completed within the pay period.

Conduct mowing operations in a manner that will not damage State right-of-way. The Engineer reserves the right to suspend mowing work when areas are too wet to mow without damage to State right-of-way occurring.

Avoid mowing over large items of litter. On roads where the mowing cycle coincides with the litter pickup cycle, cooperate with others to avoid mowing of litter as directed. However, all

County: Waller

Highway: US 290, etc.

Control: 6461-95-001

attempts will be made by the Department to have litter removed from the road prior to the start of its mowing cycle. Delays may occur to allow the litter pickup to advance ahead of the mowers. Time will be suspended for mowing of a cycle during a work stoppage required for completion of litter removal operations by others.

In addition to debris removal, mud that is tracked or dragged onto the roadway by mowers will be removed immediately.

While mowing, keep equipment off any pavement surface at all times.

Payment, at the discretion of the Engineer, may be withheld for a complete tract of land until all mowing is entirely completed for that tract to the satisfaction of the Engineer. This includes all hand trimming as required (partial payment of any tract or portion of land will be withheld if not to the satisfaction of the Engineer.) The Engineer will make the determination in the quantities for which payments will not be made. The Contractor will be notified of any and all deficiencies and will be given one (1) week notice to correct all deficiencies.

Right of way that cannot be mowed with a rotary mower will be mowed with another approved piece of equipment to the satisfaction of the Engineer. All right of way that does not receive the entire mowing specified will be considered for partial payment as directed.

Mow the pass closest to the travel way in the direction with the flow of traffic. If some circumstances make mowing with the flow of traffic impractical, discuss these circumstances with the Engineer. No change in direction will be allowed without prior approval of the Engineer.

Fixed objects, such as signs and delineators that have been knocked over by the Contractor will be returned to their original place by the Contractor. If fixed objects (signs and delineators) need replacement due to damage done by the Contractor, State forces will fix the damaged objects with the cost being deducted from the contract.

Weed eat around traffic signal cabinets.

All weed eaters will stay in front of the mowers. Weed eat a distance of five (5) feet away from and around all fixed objects.

County: Waller

Highway: US 290, etc.

Control: 6461-95-001

Sheet 3C



CONTROLLING PROJECT ID 6461-95-001

DISTRICT Houston
HIGHWAY US0290

COUNTY Waller

Estimate & Quantity Sheet

CONTROL SECTION JOB				6461-95-001		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00206166			
COUNTY				Waller			
HIGHWAY				US0290			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	500-6033	MOBILIZATION (CALLOUT)	EA	12.000		12.000	
	730-6002	FULL - WIDTH MOWING	AC	8,158.190		8,158.190	

MOWING CHART FOR WALLER MAINTENANCE AREA OFFICE
FULL WIDTH MOWING (FOR ESTIMATING PURPOSES ONLY)

SECTION: WALLER MAINTENANCE SECTION					FULL WIDTH MOWING		
TRACT NUMBER	HIGHWAY	LIMITS	REFERENCE MARKER (FROM & TO)	LENGTH (MILES)	NUMBER OF FULL WIDTH MOWING (EACH)	ONE FULL WIDTH MOWING (ACRES)	TOTAL FULL WIDTH MOWING (ACRES)
1	SH 6	FROM: US 290 TO: GRIMES COUNTY LINE	626 635	8.000	3	145.62	436.86
2	US 90	FROM: FORT BEND COUNTY LINE TO: IH 10(W)	793 803	9.400	3	96.40	289.20
3	SH 159	FROM: HEMPSTEAD TO: BRAZOS RIVER	652 655	3.200	3	25.94	77.82
4	US 290	FROM: BLASINGAME ROAD TO: BRAZOS RIVER	688 695	6.250	3	1748.00	534.00
5	US 290 BYPASS	FROM: HARRIS COUNTY LINE TO: BLASINGAME ROAD	706 694	12.000	3	335.26	1,005.78
6	US 290 BUSINESS	FROM: HARRIS COUNTY LINE TO: EAST OF FM 1488	706 697	9.300	3	47.94	143.82
7	FM 359	FROM: US 290 (BYPASS) TO: BUSINESS US 290	446 448	1.200	3	26.09	78.27
8	FM 359	FROM: BUSINESS US 290 TO: FORT BEND COUNTY LINE	448 474	26.000	3	170.02	510.06
9	FM 362	FROM: GRIMES COUNTY LINE TO: FM 1488	430 436	5.750	3	36.24	108.72
10	FM 362	FROM: FM 1488 TO: US 290	439 445	6.350	3	41.69	125.07
11	FM 362	FROM: US 290 TO: FM 359	445 466	20.200	3	175.0	526.50
12	FM 529	FROM: BRAZOS RIVER TO: FM 362	636 646	9.600	3	82.86	248.58
13	FM 529	FROM: FM 362 TO: FM 362	649 656	6.200	3	63.24	189.72

MOWING TRACTS CHART

SHEET 1 OF 3



CONT	SECT	JOB	HIGHWAY
6461	95	001	US 290, ETC.
DIST	COUNTY		SHEET NO.
HOU	WALLER		5

MOWING CHART FOR WALLER MAINTENANCE AREA OFFICE
FULL WIDTH MOWING (FOR ESTIMATING PURPOSES ONLY)

SECTION: WALLER MAINTENANCE SECTION					FULL WIDTH MOWING		
TRACT NUMBER	HIGHWAY	LIMITS	REFERENCE MARKER (FROM & TO)	LENGTH (MILES)	NUMBER OF FULL WIDTH MOWING (EACH)	ONE FULL WIDTH MOWING (ACRES)	TOTAL FULL WIDTH MOWING (ACRES)
14	FM 1098	FROM: BUSINESS US 290 TO: FM 1488	446 451	4.400	3	46.00	138.00
15	FM 1458	FROM: BRAZOS RIVER TO: FM 359	468 476	7.500	3	60.80	182.40
16	FM 1488	FROM: BUSINESS US 290 TO: MONTGOMERY COUNTY LINE	636 658	19.300	3	102.47	307.41
17	FM 1489	FROM: US 90 TO: FORT BEND COUNTY LINE	468 474	4.450	3	34.20	102.60
18	FM 1736	FROM: US 290 TO: FM 1488	634 652	17.200	3	130.20	390.60
19	FM 1887	FROM: SH 159 TO: FM 359	449 462	12.650	3	120.62	361.86
20	FM 2855	FROM: FM 529 TO: US 90	464 471	6.000	3	50.03	150.09
21	FM 2979	FROM: SH 6 TO: FM 362	636 644	7.700	3	67.15	201.45
22	FM 3318	FROM: FM 1458 TO: END OF MAINTENANCE	464 467	2.300	3	20.50	61.50
23	FM 3346	FROM: SH 159 TO: FM 359	634 639	4.200	3	28.50	85.50

MOWING TRACTS CHART

SHEET 2 OF 3



CONT	SECT	JOB	HIGHWAY
6461	95	001	US 290, ETC.
DIST	COUNTY		SHEET NO.
HOU	WALLER		6

MOWING CHART FOR WALLER MAINTENANCE AREA OFFICE
FULL WIDTH MOWING (FOR ESTIMATING PURPOSES ONLY)

SECTION: WALLER MAINTENANCE SECTION					FULL WIDTH MOWING		
TRACT NUMBER	HIGHWAY	LIMITS	REFERENCE MARKER (FROM & TO)	LENGTH (MILES)	NUMBER OF FULL WIDTH MOWING (EACH)	ONE FULL WIDTH MOWING (ACRES)	TOTAL FULL WIDTH MOWING (ACRES)
24	FM 362	OUTFALL #1: SOUTH OF GRIMES COUNTY LINE	431 433	0.063	3	0.39	1.17
25	FM 362	OUTFALL #2: SOUTH OF DAVIS ROAD	453 455	0.273	3	2.65	7.95
26	FM 362	OUTFALL #3: NORTH OF FM 529	458 459	0.549	3	3.99	11.97
27	FM 362	OUTFALL #4: NORTH OF BROOKSHIRE ROYAL ROAD	463 464	1.113	3	5.40	16.20
28	FM 359	OUTFALL #5: NEAR PATTISON CEMETERY	467 468	0.019	3	0.05	0.15
29	FM 359	OUTFALL #6: SOUTH OF FM 529	461 463	1.188	3	7.20	21.60
30	FM 359	OUTFALL #7: NORTH OF FM 529	459 460	0.189	3	1.38	4.14
31	FM 359	OUTFALL #8: SOUTH OF MONAVILLE BELL ROAD	457 459	0.303	3	1.84	5.52
32	US 290	OUTFALL #9: EAST OF FM 362	705 706	0.057	3	0.55	1.65
33	IH 10	FROM: FORT BEND/WALLER COUNTY LINE TO: WEST END OF BRAZOS RIVER BRIDGE	739 727	11.100	3	448.00	896.00
24	US 290	FROM: 900' EAST OF REFERENCE MARKER 702A TO: 1260' EAST OF RICHARDS ROAD OVERPASS	702 700	1.000	36	26.00	936.00

MOWING TRACTS CHART

SHEET 3 OF 3

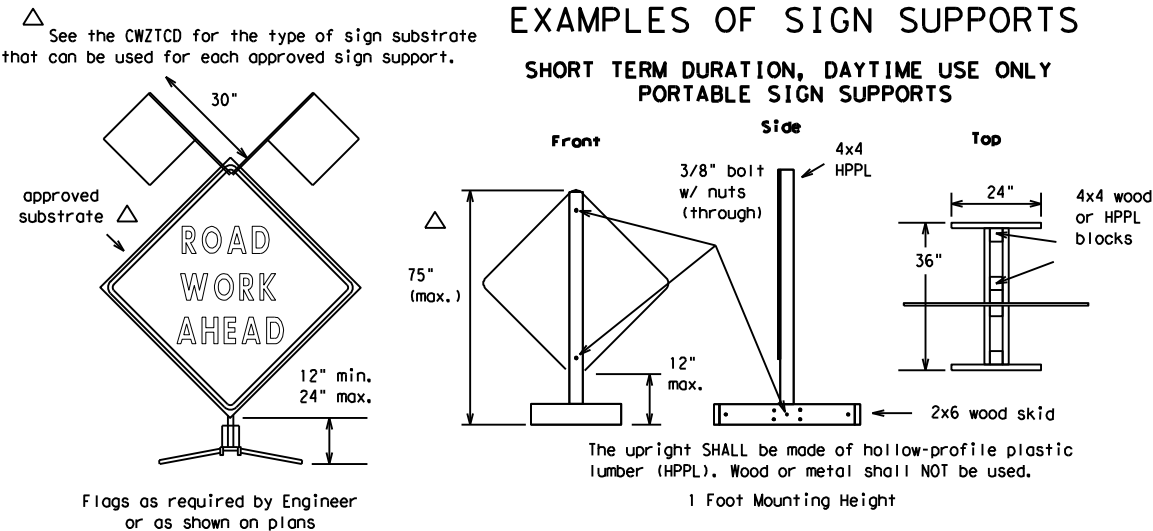


CONT	SECT	JOB	HIGHWAY
6461	95	001	US 290, ETC.
DIST	COUNTY		SHEET NO.
HOU	WALLER		7

DISCLAIMER
 The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

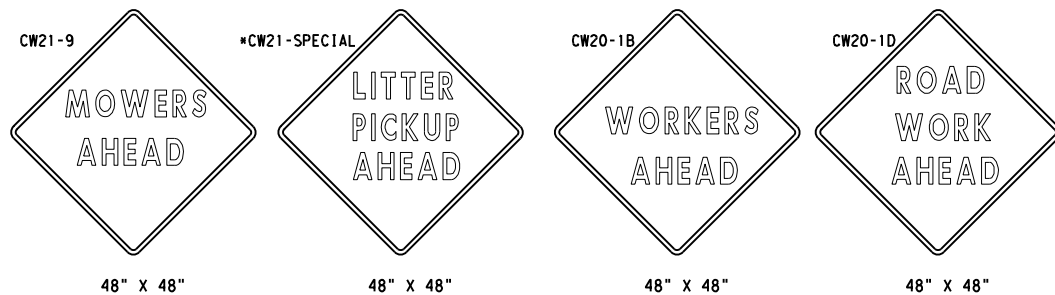
EXAMPLES OF SIGN SUPPORTS

SHORT TERM DURATION, DAYTIME USE ONLY PORTABLE SIGN SUPPORTS



Attachment to wooden supports will be by bolts and nuts or screws. Use TxDOT's or manufacturer's recommended procedures for attaching sign substrates to other types of sign supports.

Nails will NOT be allowed.



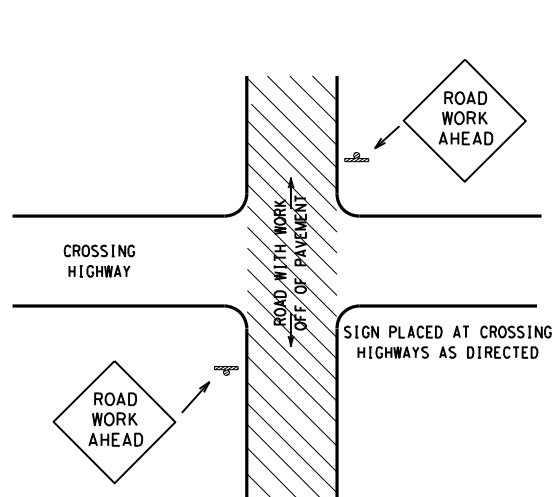
SIGN IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS

MOWERS AHEAD SIGNS ARE USED FOR MOWING OPERATIONS.

LITTER PICKUP AHEAD, ROAD WORK AHEAD AND WORKER AHEAD SIGNS ARE USED AS DIRECTED FOR OTHER MAINTENANCE OPERATIONS WHEN ALL WORK OCCURS OFF OF THE PAVED HIGHWAY SURFACE.

ROLL-UP SIGNS CONFORMING TO DMS-8310 AND THE CWZTCD ALLOWED

*Letter dimensions and spacing for "CW21-SPECIAL" is the same as C20-1D



TYPICAL LOCATION OF SIGNS AT HIGHWAY CROSSING

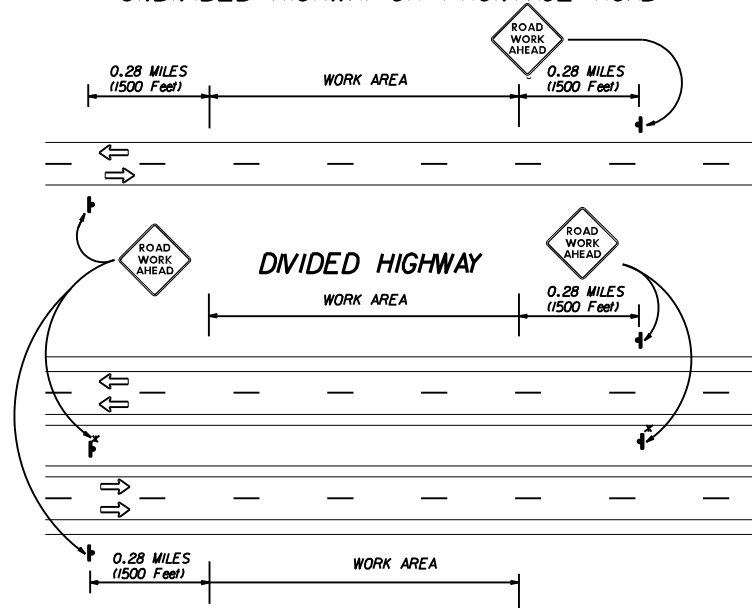
WORK AREA IS A MAXIMUM OF 2.0 MILES UNLESS OTHERWISE DIRECTED. SIGNS MAY REMAIN IN PLACE ONLY DURING DAYLIGHT HOURS.

SIGNS ARE TO BE PLACED 6' TO 12' OFF OF THE PAVED SURFACE UNLESS OTHERWISE DIRECTED.

ROAD WORK AHEAD SIGNS SHOWN AS EXAMPLES, ONE OF THE FOUR TYPE SIGNS WILL BE USED AS DIRECTED.

* SIGNS IN THE MEDIAN ARE REQUIRED WHEN WORK OCCURS IN MEDIAN

UNDIVIDED HIGHWAY OR FRONTAGE ROAD



TRAFFIC CONTROL PLAN FOR WORK OFF OF THE PAVED SURFACE.

GENERAL NOTES FOR WORK ZONE SIGNS

- Contractor shall install and maintain signs in a straight and plumb condition and/or as directed by the Engineer.
- Wooden sign posts shall be painted white.
- Barricades shall NOT be used as sign supports.
- Nails shall NOT be used to attach signs to any support.
- All signs shall be installed in accordance with the plans or as directed by the Engineer. Signs shall be used to regulate, warn, and guide the traveling public safely through the work zone.
- The Contractor may furnish either the sign design shown in the plans or in the "Standard Highway Sign Designs for Texas" (SHSD). The Engineer/Inspector may require the Contractor to furnish other work zone signs that are shown in the TMUTCD but may have been omitted from the plans. Any variation in the plans shall be documented by written agreement between the Engineer and the Contractor's Responsible Person. All changes must be documented in writing before being implemented. This can include documenting the changes in the Inspector's TxDOT diary and having both the Inspector and Contractor initial and date the agreed upon changes. The additional signs requested by the Engineer/Inspector shall not be subsidiary.
- The Contractor shall furnish sign supports listed in the "Compliant Work Zone Traffic Control Device List" (CWZTCD). The Contractor shall install the sign support in accordance with the manufacturer's recommendations. If there is a question regarding installation procedures, the Contractor shall furnish the Engineer a copy of the manufacturer's installation recommendations so that the Engineer can verify the correct procedures are being followed.
- The Contractor is responsible for sign installations and replacing signs with damaged or cracked substrates and/or damaged or marred reflective sheeting as directed by the Engineer/Inspector.
- Identification markings may be shown only on the back of the sign substrate. The maximum height of letters and/or company logos used for identification shall be 1".
- The Contractor shall replace damaged wood posts. New or damaged wood sign posts shall not be spliced.

Duration of Work (as defined by the "Texas Manual on Uniform Traffic Control Devices" Part VII)

- The Contractor is responsible for ensuring the sign support and substrate meets crashworthiness. For mowing operation all signs and supports are Short-term Duration for daytime work.
- The Contractor shall furnish the sign sizes shown on this sheet or as directed by the Engineer.

SIGN SUBSTRATES

- The Contractor shall ensure that the sign substrate is allowed for the type of sign support that is being used. The CWZTCD lists each substrate that can be used on the different types and models of sign supports.
- "Mesh" type materials are NOT an approved sign substrate.
- All wooden individual sign panels fabricated from 2 or more pieces shall have one or more plywood cleat, 1/2" thick by 6" wide, fastened to the back of the sign and extending fully across the sign. The cleat shall be attached to the back of the sign using wood screws that do not penetrate the face of the sign panel. The screws shall be placed on both sides of the splice and spaced at 6" centers. The Engineer may approve other methods of splicing the sign faces.

REFLECTIVE SHEETING

- Reflectorized signs shall be constructed of sheeting meeting the color and retro-reflectivity requirements of DMS-8300 or DMS-8310. The DMS specifications can be accessed from the following web address:
http://manuals.dot.state.tx.us:80/dynaweb/colmates/@Generic_CollectionView;cs=default;ts=default
- White sheeting, meeting the requirements of DMS-8300 Type C (High Specific Intensity), shall be used for signs with white background and channelizing devices.
- Orange sheeting, meeting the requirements of DMS-8300 Type E (Fluorescent Prismatic), shall be used for signs with orange backgrounds.

SIGN LETTERS

- All sign letters and numbers shall be clear, and open rounded type uppercase alphabet letters as approved by the Federal Highway Administration (FHWA) and as published in the "Standard Highway Sign Design for Texas" manual. Signs, letters and numbers shall be of first class workmanship in accordance with Department Standards and Specifications.

REMOVING OR COVERING

- Signs should be removed or completely covered when not mowing.
- Duct tape or other adhesive material shall NOT be affixed to a sign face.
- Signs and supports shall be removed by the end of the day.

SIGN SUPPORT WEIGHTS

- Where sign supports require the use of weights to keep from turning over, the use of sandbags with dry cohesionless sand is recommended.
- The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight.
- Rock, concrete, iron, steel or other solid objects will not be permitted for use as sign support weights.
- Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs.
- Sandbags shall be made of a durable material that tears upon vehicular impact.
- Rubber (such as tire inner tubes) shall NOT be used for sandbags.
- Rubber ballasts (such as those used with cones or edgeline channelizers) shall NOT be used as sign support weights.
- Sandbags shall only be placed along or laid over the base supports of the traffic control device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners. Sandbags shall be placed along the length of the skids to weigh down the sign supports.
- Sandbags shall NOT be placed under the skid and shall not be used to level sign supports placed on slopes.

CONTRACTOR REQUIREMENTS FOR MAINTAINING PERMANENT SIGNS WITHIN THE PROJECT LIMITS

Any sign, sign support or traffic control device that is struck or damaged by the Contractor or his/her construction equipment shall be replaced or repaired as soon as possible by the Contractor at the Contractor's expense.

Only pre-qualified products shall be used. A copy of the "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources and may be obtained by contacting:

Standards Engineer
 Traffic Operations Division - TE
 Texas Department of Transportation
 125 East 11th Street
 Austin, Texas 78701-2483
 Phone (512) 416-3120
 Fax (512) 416-3299

Instructions to locate the "CWZTCD" on TxDOT website are:

Start at website - www.dot.state.tx.us
 Click on "About TxDOT",
 Click on "Organizational Chart",
 Click on "Traffic Operations Box",
 Click on "Compliant Work Zone Traffic Control Devices",
 Click on "View PDF".
 This site is printable.

Texas Department of Transportation
 Maintenance Division
 Standard Plans

ROADSIDE TRAFFIC CONTROL PLAN

SHEET 1 OF 1 RS-TCP-05 NOT TO SCALE

FILE: RSTC05.DGN	DW: LJB	CK: JG	DW: -	CK: -	NEG NO.:
© TxDOT FEBRUARY 2005		STATE DISTRICT	FEDERAL REGION	FEDERAL AID PROJECT	SHEET
REVISED: September 17, 2004		12			8
REVISED: FEBRUARY 2, 2005 Sign placement in TCP		COUNTY	CONTROL SECTION	JOB	HIGHWAY
REVISED:		WALLER	6461	95 001	US 290, ETC