

CONT	SECT	JOB	HIGHWAY
6405	60	001	US 290, ETC.
DIST	COUNTY		SHEET NO.
AUS	TRAVIS		1

STATE OF TEXAS

DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED STATE HIGHWAY ROUTINE MAINTENANCE

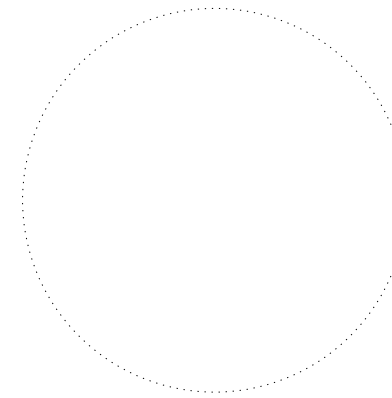
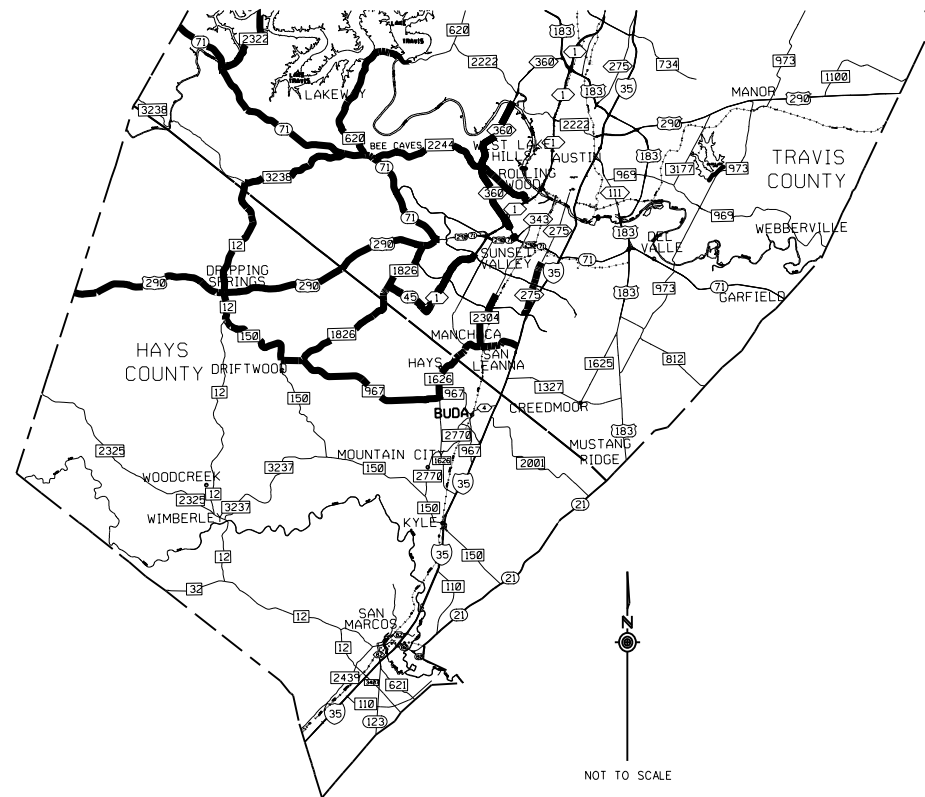
PROJECT NUMBER
RMC 640560001

TRAVIS, Etc.
US 290, Etc.

FROM: VARIOUS LOCATIONS IN TRAVIS
TO: AND HAYS COUNTIES
FOR THE MAINTENANCE OF HIGHWAY RIGHT OF WAY
CONSISTING OF MOWING 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
RAILROAD CROSSINGS: NONE

SUBMITTED FOR LETTING: 8/8/2022

RECOMMENDED FOR LETTING: 11/29/2022

DocuSigned by:
Susana Ceballos P.E.
E1816167B5C7414
DISTRICT MAINTENANCE ENGINEER

APPROVED FOR LETTING: 11/30/2022

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

DocuSigned by:
William Semora
917B7C376B3C4D5
AREA ENGINEER

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION ON NOVEMBER 1, 2014, AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS, SHALL GOVERN ON THIS CONTRACT

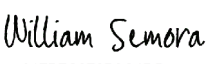



INDEX OF SHEETS

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2	INDEX OF SHEETS
3,3A	GENERAL NOTES
4	ESTIMATE & QUANTITY SHEET
5	SUMMARY SHEET
<u>STANDARDS</u>	
6	ROADSIDE TRAFFIC CONTROL PLAN R5-TCP-05

FILE: \$FILE\$
DATE: \$DATE\$ TIME: \$TIME\$

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

DocuSigned by:

 917B7C376B3C4D5... P.E. 8/8/2022
 WILLIAM SEMORA JR, P.E. DATE

AUSTIN DISTRICT SOUTH TRAVIS				
				
INDEX OF SHEETS				
NOT TO SCALE			SHEET 1 OF 1	
© 2019	CONT	SECT	JOB	HIGHWAY
DS: CK:	6405	60	001	US 290, ETC.
DW: CK:	DIST COUNTY		SHEET NO.	
	AUS	TRAVIS, Etc.	2	

Project Number: 640560001
County: Travis, etc.
Highway: US 290, etc.

Sheet: 3
Control: 6405-60-001

Project Number: 640560001
County: Travis, etc.
Highway: US 290, etc.

Sheet: 3
Control: 6405-60-001

GENERAL NOTES:

GENERAL

Contractor questions on this project are to be addressed to the following individual(s):
South Austin Mark.Baumann@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%20Responses/>

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.

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.

Commence work upon issuance of a work order. Continue for (2) "two" calendar years or until contract funds are expended, whichever occurs first.

Work under this contract shall consist of "Mowing Highway Right of Way" at various locations in "Travis and Hays Counties".

If work is performed at Contractor's option, when inclement weather is impending, and the work is damaged by subsequent precipitation, the Contractor is responsible for all costs associated with replacing the work, if required.

Equip all construction equipment used in roadway work with highly visible omnidirectional flashing warning lights.

A slow moving vehicle emblem will be affixed to the rear of mowers.

Damage to existing pipes and SET's due to Contractor operations will be repaired at Contractor's expense.

The Contractor is responsible for any damage done to the existing utilities while working on this project. The Contractor is responsible for reporting the damage to the utility company as soon as possible.

All locations used for storing construction equipment, materials, and stockpiles of any type, within the right of way, will be as directed. Use of right of way for these purposes will be restricted to those locations where driver sight distance to businesses and side street intersections is not obstructed and at other locations where an unsightly appearance will not exist. The Contractor will not have exclusive use of right of way but will cooperate in the use of the right of way with the city/county and various public utility companies as required.

Remove all equipment from the right of way at the completion of each mowing cycle. Equipment will not be left within 30 feet of the travel lane.

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 for each item of work, or as directed by the Engineer. Daily work reports will be submitted to the Engineer. Work reports will include planned work 24 hours in advance and all completed work. Notify Engineer of arrival at each site prior to beginning work. Documentation of completion of work and inspection by the Engineer are required for payment.

ITEM 7 – LEGAL RELATIONS AND RESPONSIBILITIES

Perform maintenance of vehicles or equipment at designated maintenance sites. Keep a spill kit on-site during fueling and maintenance. This work is subsidiary.

Back Up Alarm.

For hours 9 P to 5 A, utilize a non-intrusive, self-adjusting noise level reverse signal alarm. This is not applicable to hotmix or seal coat operations. This is subsidiary.

ITEM 500 – MOBILIZATION

One Mobilization will be paid for each callout performed.

ITEM 730 – ROADSIDE MOWING

For this contract, there are 2 cycles of full width mowing and spot mowing, annually.

For this contract, the Contractor should have in operation at all times, no less than "four" mowers for full width mowing, unless otherwise approved by the Engineer. This amount of equipment is for information purposes and the State will look at production rates to establish whether performance is progressing according to specifications.

The Contractor will be given written notification of when to begin a mowing cycle. Within the written notification, the Contractor will be given the number of acres required for the mowing cycle,

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and the date when the time charges for the mowing cycle will be started. The number of working days allowed to complete the mowing cycle will be determined by the Engineer.

Work will be considered progressing satisfactorily if the average acceptable acres mowed per day are in line with the total number of acres required per day as outlined below for each type of mowing. All hand trimming must also be accomplished for the amount of acres mowed.

For this contract the basis of estimate for mowing acres per normal working day will be **140 acres** for full width mowing.

Mowers will be adjusted for a cutting height of approximately five to seven inches as directed by the Engineer. Stops will be placed in the cylinders on the main deck so the mower will not cut lower than this set adjustment. The Engineer reserves the right to require the mower to be readjusted at any time the Engineer suspects the adjustment is incorrect. All rotary mowers will be maintained with sharp blades to cleanly, evenly cut vegetation at all times.

All rotary mowers must be equipped with either safety chains or the manufacturer's safety device to prevent damage to property caused by flying debris propelled out from under the mower. Chains will be a minimum of 5/16 inch in size and links spaced side by side around the mowers front, sides and rear.

Tractor mounted mowers may be used in large open areas. Suitable smaller riding or push-type mowers will be used in areas around shrubs and trees in landscaped areas as directed by the Engineer.

All hand trimming must be kept up with the mowing operation. For this operation, a minimum of one support vehicle will be required along with a minimum of two people to do the trimming per tract. These persons will perform the trimming directly behind the mowers. The trimming should not be done by the mower operators unless otherwise directed by the Engineer. Should the hand trimming fall behind, the Engineer may stop all mowing operations until the trimming is caught up. The work days will continue during this mowing stoppage.

Mow as close as possible to all fixed objects exercising extreme care not to damage trees, plants, shrubs, signs, delineators or other appurtenances which are part of the facility. Hand trimming around such objects is required of the Contractor, unless specified otherwise, and will be subsidiary to the mowing operations and has been included in the total working days allowed. Straighten and plumb all object markers and delineators post after each mowing cycle. Working days will continue to accrue until this work is complete. Any damage caused by the Contractor's operation will be repaired and/or replaced to a condition as good as or better than at the Contractor's expense. The Department has the authority to charge the Contractor for any damage not repaired.

Grass trimmings that accumulate in the gutters and roadway shall be removed by the contractor. This work is subsidiary to the pertinent items.

The Contractor will remove all small woody plants around fixed objects.

The Contractor will be required to edge the curb lines during each cycle of mowing.

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The Engineer reserves the right to specify the sequence of mowing operation by highway, etc. Failure to comply with these instructions will be considered as not complying with the terms of the contract. The sequence of work will be as established by the Engineer or as requested by the Contractor with prior approval by the Engineer.

Then Engineer reserves the right to pay for partial cycles when it is determined that certain highways or portions thereof may not need mowing.

The number of cycles included in the plans is for estimation purposes only. The Contractor will be given written notice on an as-needed (callout work) for each cycle of mowing.

To prevent further spread of parasitic or invasive plants in the Austin District, all mowing equipment must be pressure washed prior to beginning mowing operations in any Austin District Maintenance Section.

Furnishing and installation of work zone signs is subsidiary to Item 730.

Plans may be reviewed at the South Travis Area Office at 9725 S. IH 35, Austin, TX 78744. The contact person is Gash Murray email Gash.Murray@txdot.gov



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 6405-60-001

DISTRICT Austin
HIGHWAY US0290

COUNTY Travis

CONTROL SECTION JOB				6405-60-001		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00188060			
COUNTY				Travis			
HIGHWAY				US0290			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	500-6033	MOBILIZATION (CALLOUT)	EA	5.000		5.000	
	730-6002	FULL - WIDTH MOWING	AC	4,324.000		4,324.000	
	730-6003	SPOT MOWING	AC	400.000		400.000	

TRAVIS SOUTH MAINTENANCE							
ROADWAY	FROM	TO	FULL WIDTH MOWING ITEM 730 (ACRES)	ESTIMATED CYCLES	LENGTH (MILES)	NOTES	WORKING DAYS PER CYCLE
SH 71	WEST BEE CAVE CITY LIMITS	BLANCO COUNTY LINE	113	4	12.30		2
SH 71	US 290	WEST BEE CAVE CITY LIMITS	54	4	9.31	3	1
RM 2322	SH 71	END STATE MAINTENANCE	34	4	4.60		1
RM 3238	SH 71	END STATE MAINTENANCE	60	4	6.85		1
RM 12	RM 150	FM 3238	73	4	9.20		1
US 290	JOE TANNER LN	RM 1826	12	4	1.93	3	1
US 290	RM 1826	HAYS COUNTY LINE	28	4	5.38	3	1
US 290	TRAVIS COUNTY LINE	RM 12	66	4	7.42		1
US 290	RM 12	BLANCO COUNTY LINE	78	4	9.55		2
RM 150	RM 12	RM 1826	13	4	1.69		1
FM 1626	RM 967	NORTH TO IH 35 W FRONTAGE	60	4	7.07		1
RM 967	RM 1826	FM 1626	70	4	11.53		1
RM 620	SH 71	MANSFIELD DAM	29	4	8.92	3	1
RM 1826	US 290	RM 150	50	4	12.09	3	1
FM 2304	MATTHEWS LN	FM 1626	9	4	4.55	3	1
SL 360	LAMAR BLVD	BARTON CREEK	21	4	0.76	3	1
SL 360			6	4	N/A	1	1
SL 360	BARTON CREEK	COLORADO RIVER	112	4	8.62	3	2
SL 1	DAVIS LANE	SOUTH BAY LANE	58	4	2.25	3	1
SL 1	SOUTH BAY LANE	SH 45	21	4	0.74	3	1
SH 45	SL 1	RM 1826	47	4	2.70	3	1
SL 275	WILLIAMSON CREEK	SLAUGHTER LN	11	4	2.78	3	1
RM 2244	SH 71	SL 1	56	4	11.47	3	1
TRAVIS SOUTH SECTION TOTAL:			1081		141.71		26

- 1 HAZMAT POND AREA BETWEEN BARTON CREEK AND S LAMAR BLVD
- 2 UNDER MAINLANES, AREA OF US 290/SL 360/S LAMAR BLVD
- 3 THESE ROADS REQUIRE A MINIMUM OF ONE SUPPORT VEHICLE ALONG WITH A MINIMUM OF TWO PEOPLE TO DO THE TRIMMING. THESE PERSONS WILL PERFORM THE TRIMMING DIRECTLY BEHIND THE MOWERS. THE TRIMMING SHOULD NOT BE DONE BY THE MOWER OPERATORS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

**Austin District
South Travis**



SUMMARY SHEET

NOT TO SCALE SHEET 1 OF 1

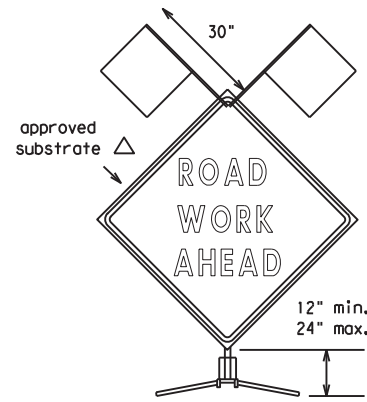
© 2021	CONT	SECT	JOB	HIGHWAY
DS: CK:	6405	60	001	US 290, Etc.
DW: CK:	DIST	COUNTY	SHEET NO.	
	AUS	TRAVIS, Etc.	5	

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.

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	

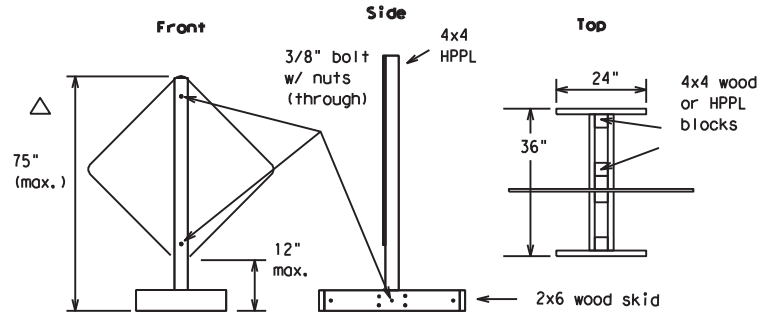
EXAMPLES OF SIGN SUPPORTS

See the CWZTCD for the type of sign substrate that can be used for each approved sign support.



Flags as required by Engineer or as shown on plans

SHORT TERM DURATION, DAYTIME USE ONLY PORTABLE SIGN SUPPORTS

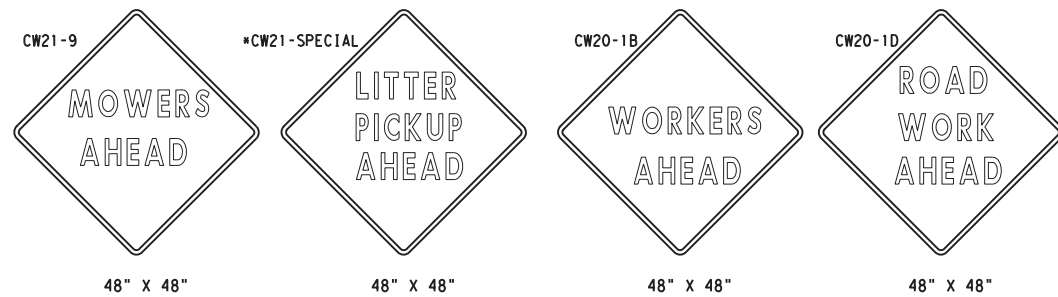


The upright SHALL be made of hollow-profile plastic lumber (HPPL). Wood or metal shall NOT be used.

1 Foot Mounting Height

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.



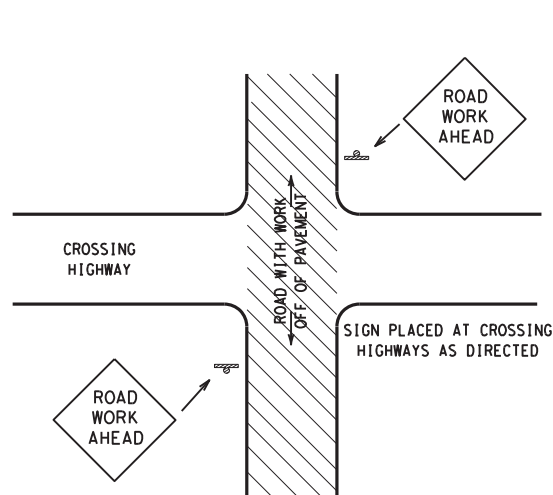
SIGN IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS

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

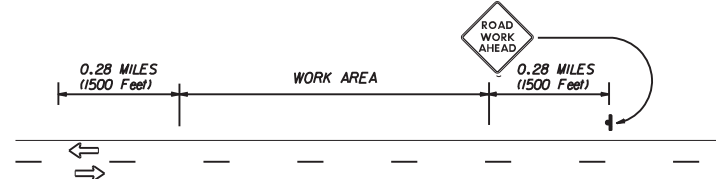
WORK AREA IS A MAXIMUM OF 2.0 MILES UNLESS OTHERWISE DIRECTED. SIGNS MAY REMAIN IN PLACE ONLY DURING DAYLIGHT HOURS.

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

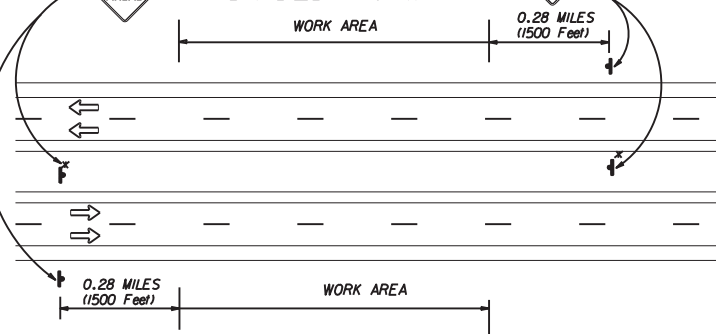
ROAD WORK AHEAD SIGNS SHOWN AS EXAMPLES, ONE OF THE FOUR TYPE SIGNS WILL BE USED AS DIRECTED.

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

UNDIVIDED HIGHWAY OR FRONTAGE ROAD



DIVIDED HIGHWAY



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 VI)

- 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: RSTCP05.DGN	DWG: LJB	CHK: JG	DWG: -	CR: -	NEG NO.:
© TxDOT FEBRUARY 2005		STATE DISTRICT	FEDERAL REGION	PROJECT NO.	SHEET
REVISED: September 17, 2004	AUS	N/A	SEE TITLE SHEET	6	
REVISED: FEBRUARY 2, 2005 Sign placement in TCP	COUNTY		CONTROL SECTION	JOB	HIGHWAY
REVISED:	TRAVIS, ETC.		6405	60	001 US290, ETC.