

STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION
PLANS OF PROPOSED
STATE HIGHWAY ROUTINE MAINTENANCE

CONT	SECT	JOB	HIGHWAY
6368	93	001	US 290
DIST	COUNTY		SHEET NO.
14	LEE		1

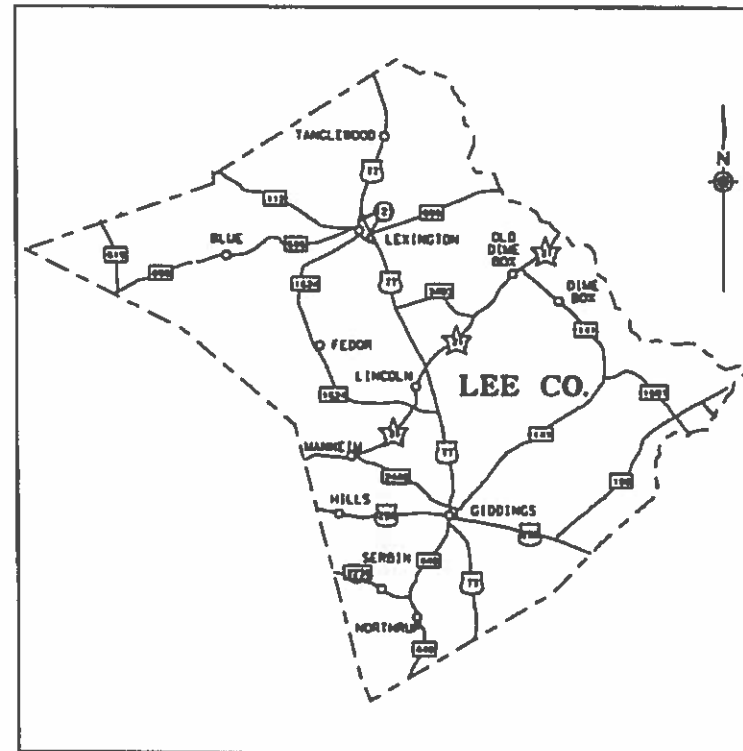
PROJECT NUMBER
RMC 636893001

NET LENGTH OF PROJECT - 244.70 ROADWAY MILES

LEE COUNTY
US 290

LIMITS OF WORK: US 290, ETC., IN LEE COUNTY

CONSISTING OF
MOWING HIGHWAY RIGHT OF WAY



LOCATION MAP NOT TO SCALE

EXCEPTIONS: NONE
EQUATIONS: NONE
RAILROAD CROSSINGS: NONE

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

RECOMMENDED FOR LETTING: 11/16/2020

DocuSigned by:

C2754FBFB7A143C
DISTRICT MAINTENANCE ENGINEER

SUBMITTED FOR LETTING: 11/12/2020

DocuSigned by:
Diana K. Schulz, P.E.
6775445255A3482
AREA ENGINEER

APPROVED FOR LETTING: 11/16/2020

DocuSigned by:
Omar X. De Leon, P.E.
D18DBE2B94AE4FA
DIRECTOR OF OPERATIONS

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

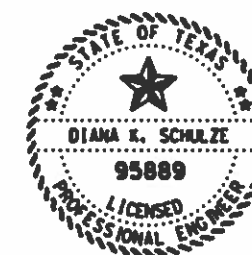
INDEX OF SHEETS

PLANS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1.	TITLE SHEET
2.	INDEX OF SHEETS
3, 3A-3B	GENERAL NOTES
4.	ESTIMATE & QUANTITY SHEET
5.	FULL WIDTH MOWING SUMMARY
6.	STRIP MOWING SUMMARY

STANDARDS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
7.	STRIP-MOW-ND-04
8.	STRIP-MOW-D-04
9.	RS-TCP-05




THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ON THIS SHEET HAVE BEEN ISSUED BY ME AND ARE APPLICABLE TO THIS PROJECT.

DocuSigned by:
Diana K. Schulze P.E.
 6775445255A3482

11/12/2020

DATE: 0DATE: 0
 FILE: 0FILE: 0

Austin District Bastrop Area Office			
 Texas Department of Transportation			
INDEX OF SHEETS			
© 2018	CONT	SECT	JOB
	6368	93	001
	DIST	COUNTY	SHEET NO.
	14	LEE	2

Project Number: RMC 636893001
County: LEE
Highway: US 290

Sheet:
Control: 6368-93-001

GENERAL NOTES: Version: December 20, 2019

GENERAL

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

Bastrop Area Mark.Baumann@txdot.gov
Bastrop Area Diana.Schulze@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.

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 two (2) calendar years or until contract funds are expended, whichever occurs first.

Work under this contract shall consist of full width and strip mowing at various locations in Lee County.

References to manufacturer's trade name or catalog numbers are for the purpose of identification only. Similar materials from other manufacturers are permitted if they are of equal quality, comply with the specifications for this project, and are approved.

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.

Project Number: RMC 636893001
County: LEE
Highway: US 290

Sheet: 3
Control: 6368-93-001

All sweepers and trucks involved in work under this contract will be equipped, as approved by the Engineer, with a permanently mounted 360 degree revolving or strobe warning light with amber lens. This light will have a minimum lens height of 5 inches and a diameter of 5 inches. The light will have a mounting height of not less than 6 feet above the roadway surface and will be visible from all sides. This equipment will 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.

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

Damage that occurs to existing fences while performing work is the Contractor's responsibility under this contract. Any damage to fences must be repaired immediately to its prior existing condition or better.

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.

During evacuation periods for Hurricane events the Contractor will cooperate with Department for the restricting of Lane Closures and arranging for Traffic Control to facilitate Coastal Evacuation Efforts.

ITEM 2 – INSTRUCTIONS TO BIDDERS

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.

Project Number: RMC 636893001
County: LEE
Highway: US 290

Sheet:
Control: 6368-93-001

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.

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

ITEM 7 – LEGAL RELATIONS AND RESPONSIBILITIES

Roadway closures during key dates and/or special events are prohibited. See notes for Item 502 for the key dates and/or special events.

When any abandoned well is encountered, cease construction operations in this area and notify the Engineer who will coordinate the proper plugging procedures. A water well driller licensed in the State of Texas must be used to plug a well.

Erosion control and stabilization measures must be initiated immediately in portions of the site where construction activities have temporarily ceased and will not resume for a period exceeding 14 calendar days. Track all exposed soil, stockpiles, and slopes. Tracking consists of operating a tracked vehicle or equipment up and down the slope, leaving track marks perpendicular to the direction of the slope. Re-track slopes and stockpiles after each rain event or every 14 days, whichever occurs first. This work is subsidiary.

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

Suspend all activities near any significant recharge features, such as sinkholes, caves, or any other subterranean openings that are discovered during construction or core sampling. Do not proceed until the designated Geologist or TCEQ representative is present to evaluate and approve remedial action.

Locate aboveground storage tanks kept on-site for construction purposes in a contained area as to not allow any exposure to soils. The containment will be sized to capture 150% of the total capacity of the storage tanks.

ITEM 500 – MOBILIZATION

One Mobilization will be paid for each callout performed.

Project Number: RMC 636893001
County: LEE
Highway: US 290

Sheet: 3A
Control: 6368-93-001

ITEM 502 - BARRICADES, SIGNS, AND TRAFFIC HANDLING

<u>Table 2</u>		
<u>Roadway</u>	<u>Limits</u>	<u>Allowable Closure Time</u>
All	Entire Limits	30 minutes after sunrise to 30 minutes before sunset

No closures will be allowed on the weekends, working day prior, and working day after the National Holidays defined in the Standard Specifications, Good Friday, and Easter weekend. Closures the Sunday of the Super Bowl will not be allowed from 1 P to 11 P. No closures will be allowed on Friday and the weekends for projects within 20 miles of Formula 1 at COTA, ACL Fest, SXSW, ROT Rally, UT home football games (includes games not on a Friday or weekend), sales tax holiday, Dell Match Play (includes Thursday) or other special events that could be impacted by the construction. All lanes will be open by noon of the day before these special events.

ITEM 730 – ROADSIDE MOWING

For this contract, there are 2 cycles of full width mowing and 1 cycle of strip mowing, annually.

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, 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 required mowing acres per normal working day will be 140 acres for full width mowing and 75 acres for strip 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.

Project Number: RMC 636893001
County: LEE
Highway: US 290

Sheet: 3B
Control: 6368-93-001

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.

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.

Mowing Requirements: Strip mowing will also include all mowing necessary to maintain adequate sight distance at intersections, private entrances, off ramps, on ramps, signs, delineators and curves. Strip mowing may also be used to mow inside small towns between normal mowing cycles.

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

ESTIMATE SUMMARY

PROJECT RMC 636893001

CONTROL 6368-93-001

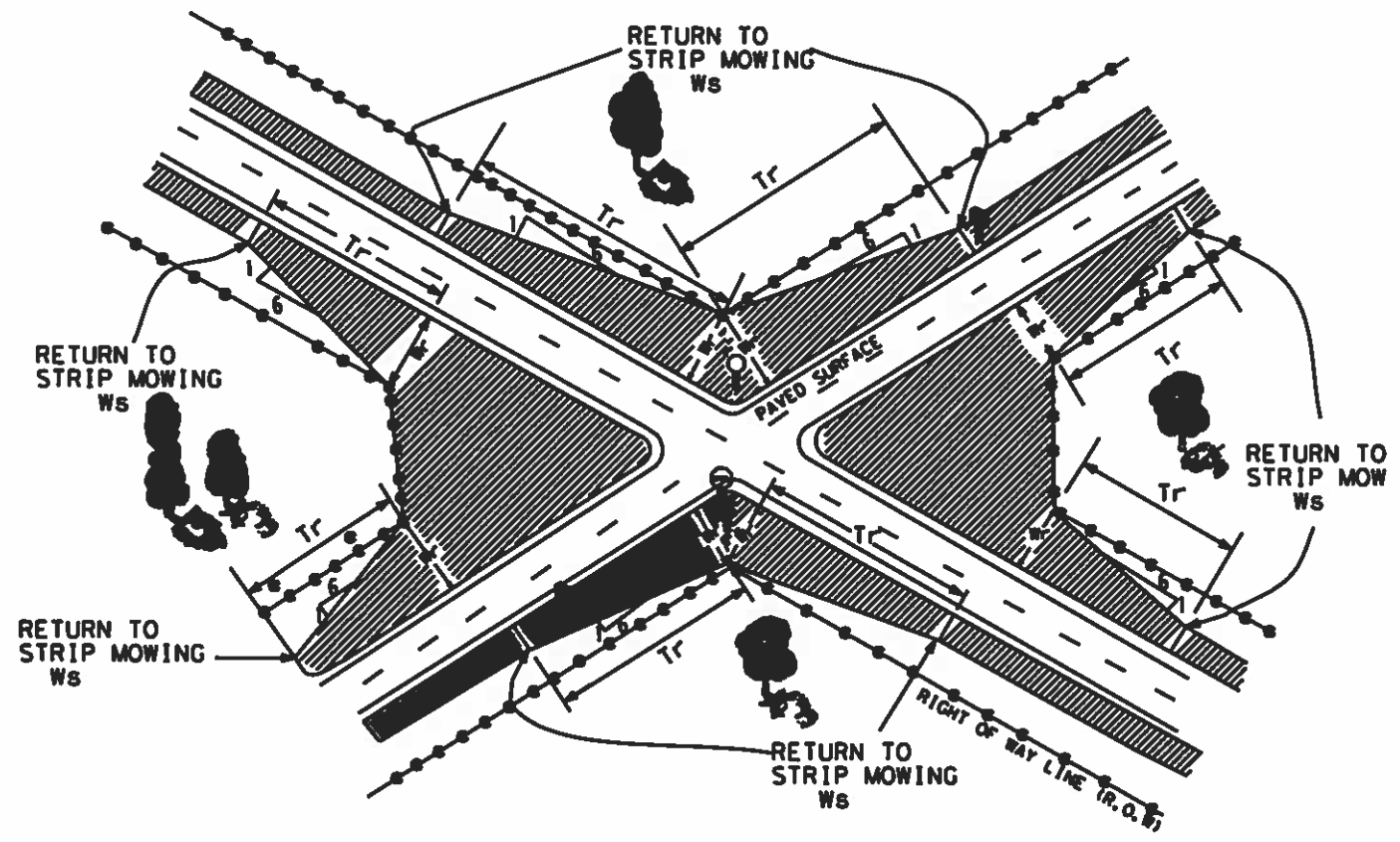
HIGHWAY US 290

								ROADWAY		A L T	ITEM-CODE			DESCRIPTION	U N I T	TOTAL	
EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL		ITEM NO.	DESC CODE	SP NO.			EST.	FINAL
								6.000			500	6033		MOBILIZATION (CALLOUT)	EA	6.000	
								2,018.000			730	6001		STRIP MOWING	AC	2,018.000	
								8,860.000			730	6002		FULL - WIDTH MOWING	AC	8,860.000	

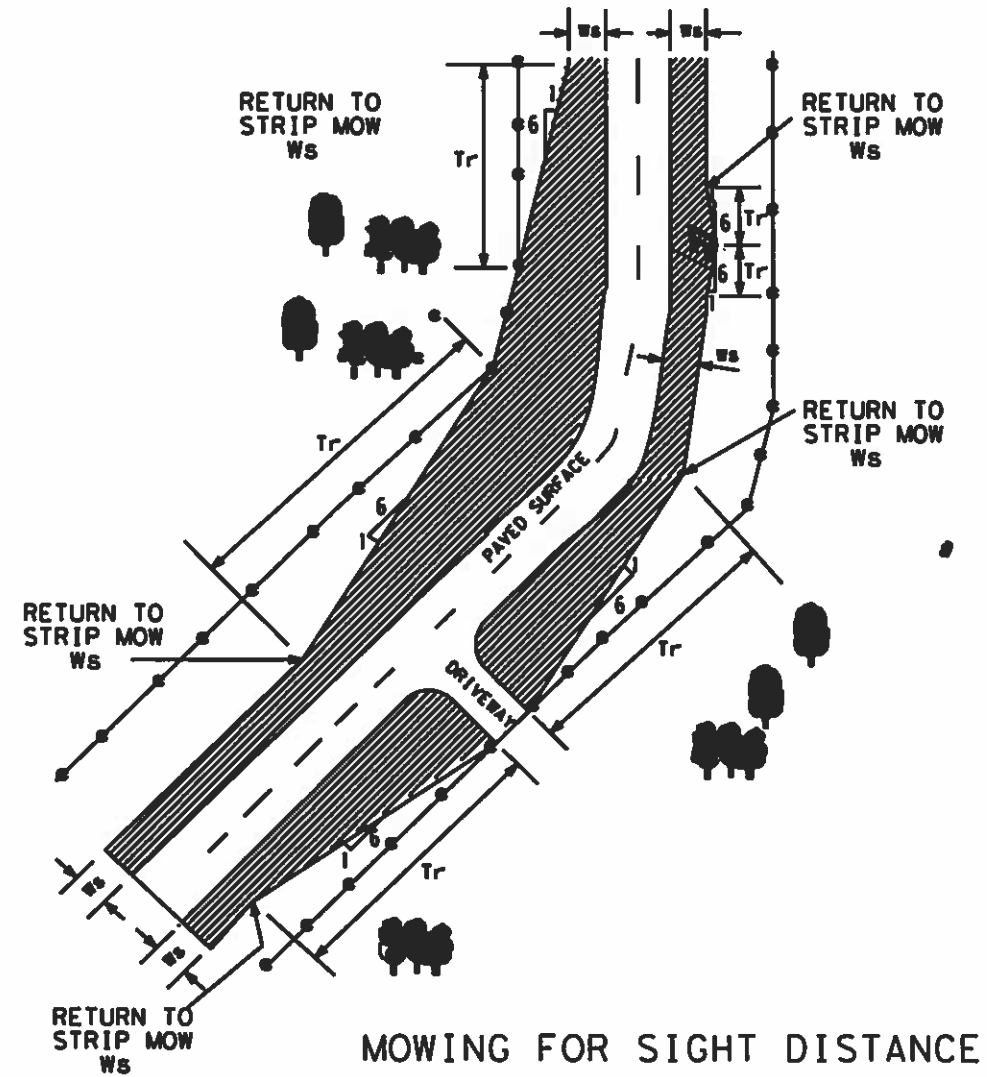
ESTIMATE & QUANTITY SHEET

STATE DIST. NO.	COUNTY	PROJECT NO.	SHEET NO.
14	LEE	RMC 636893001	4

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.



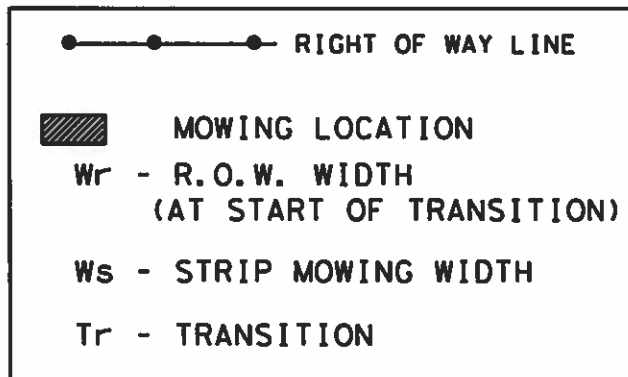
MOWING FOR SIGHT DISTANCE
 WITH TRANSITION FROM INTERSECTION
 BACK TO STRIP MOWING



MOWING FOR SIGHT DISTANCE
 TRANSITIONS AT DRIVEWAYS,
 SIGNS, AND CURVES

GENERAL NOTES:

1. THE NORMAL WIDTH FOR STRIP MOWING IS 15' UNLESS OTHERWISE SHOWN ON THE PLANS.
2. MOW TO THE R.O.W. LINE IN FRONT OF BUSINESSES, RESIDENCES, CHURCHES, OR CULTIVATED FIELDS UNLESS OTHERWISE SHOWN ON THE PLANS.
3. TRANSITION FOR SIGHT DISTANCE TO R.O.W LINE OR AROUND SIGNS AS SHOWN ON THIS SHEET UNLESS OTHERWISE SHOWN ON THE PLANS.



Texas Department of Transportation
 Maintenance Division
 Standard Plans

STRIP MOWING NON-DIVIDED HIGHWAYS

STRIP-MOW-ND-04

SHEET 1 OF 1

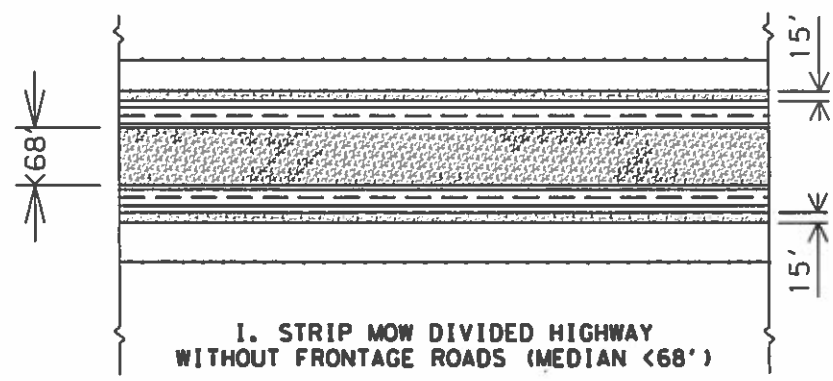
NOT TO SCALE

FILE: SMOWND04.DGN	DN: LJB	CK: JG	DW: -	CK: -	NEG NO.:
© TxDOT 2004		STATE DISTRICT	FEDERAL REGION	MAINTENANCE PROJECT NO.	SHEET
REVISED: 5/18/2004	LJB	14		RMC 636893001	7
REVISED:		COUNTY	CONTROL SECTION	JOB	HIGHWAY
REVISED:		LEE	6368 93	001	US 290

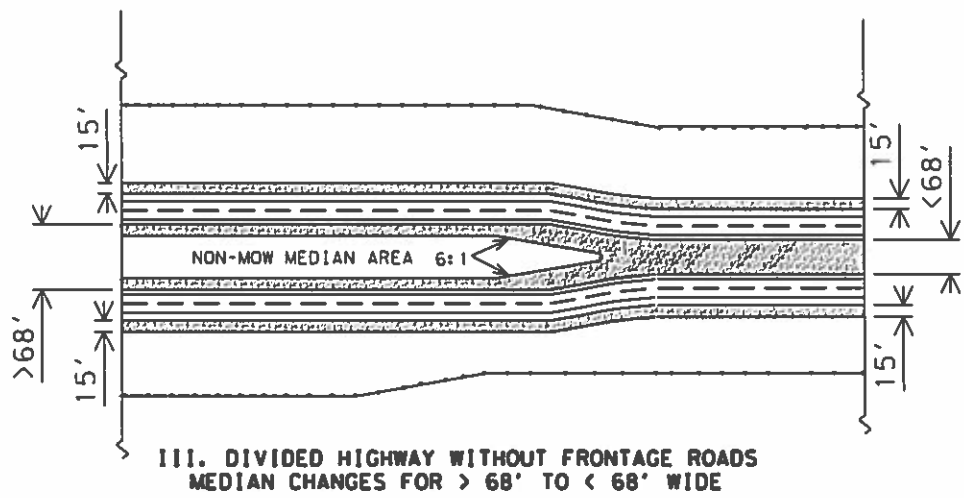
LEVELS DISPLAYED
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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.

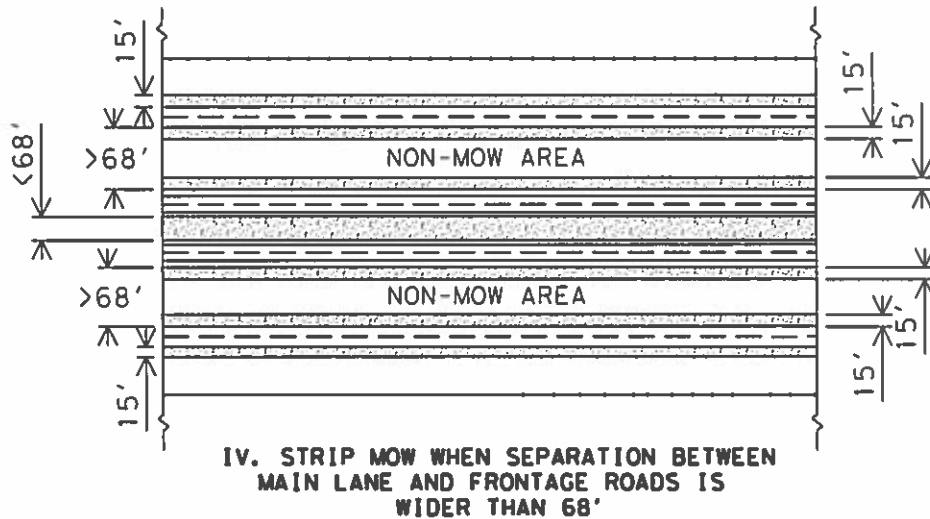
LEVELS DISPLAYED	
11	2
12	3
13	4
14	5
15	6
16	7
17	8
18	9
19	10
20	11
21	12
22	13
23	14
24	15
25	16
26	17
27	18
28	19
29	20
30	21
31	22
32	23
33	24
34	25
35	26
36	27
37	28
38	29
39	30
40	31
41	32
42	33
43	34
44	35
45	36
46	37
47	38
48	39
49	40
50	41
51	42
52	43
53	44
54	45
55	46
56	47
57	48
58	49
59	50
60	51
61	52
62	53
63	54
64	55
65	56
66	57
67	58
68	59
69	60
70	61
71	62
72	63
73	64
74	65
75	66
76	67
77	68
78	69
79	70
80	71
81	72
82	73
83	74
84	75
85	76
86	77
87	78
88	79
89	80
90	81
91	82
92	83
93	84
94	85
95	86
96	87
97	88
98	89
99	90



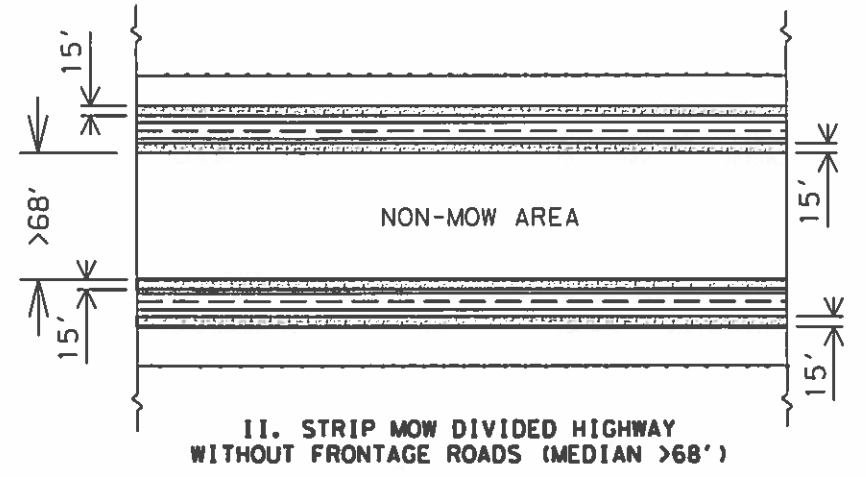
I. STRIP MOW DIVIDED HIGHWAY WITHOUT FRONTAGE ROADS (MEDIAN < 68')



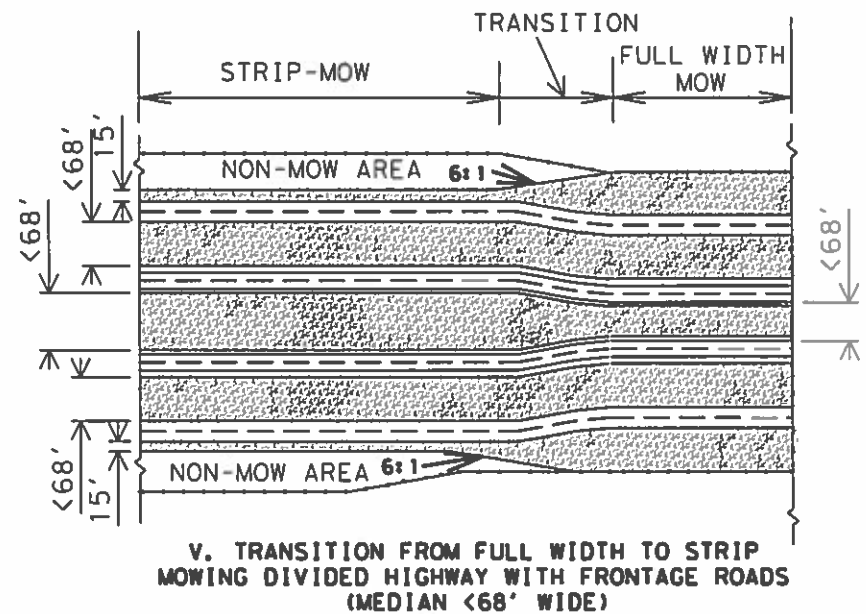
III. DIVIDED HIGHWAY WITHOUT FRONTAGE ROADS MEDIAN CHANGES FOR > 68' TO < 68' WIDE



IV. STRIP MOW WHEN SEPARATION BETWEEN MAIN LANE AND FRONTAGE ROADS IS WIDER THAN 68'



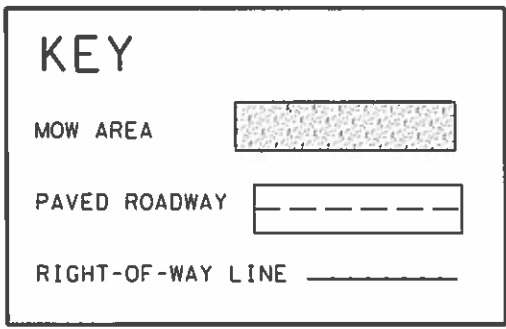
II. STRIP MOW DIVIDED HIGHWAY WITHOUT FRONTAGE ROADS (MEDIAN > 68')



V. TRANSITION FROM FULL WIDTH TO STRIP MOWING DIVIDED HIGHWAY WITH FRONTAGE ROADS (MEDIAN < 68' WIDE)

GENERAL NOTES:

1. MOW THE ENTIRE WIDTH OF MEDIANS AND OUTER SEPARATIONS (AREAS BETWEEN MAIN LANES, RAMPS, AND FRONTAGE ROAD) EXCEPT FOR NON-MOW AREAS.
2. MOW FULL-WIDTH ALL MEDIANS AND OUTER SEPARATIONS 68' OR LESS FROM PAVEMENT EDGE TO PAVEMENT EDGE.
3. FOR MEDIANS AND OUTER SEPARATIONS GREATER THAN 68' MOW A 15' ALONG EACH PAVEMENT EDGE.
4. NON-MOW AREAS IN MEDIANS & OUTER SEPARATIONS WILL BE CONSIDERED THE AREA IN MEDIANS AND OUTER SEPARATIONS GREATER THAN 68' BETWEEN THE 15' STRIP MOW AREAS.
5. OTHER NON-MOW AREA'S WILL BE SHOWN ELSEWHERE ON PLANS OR MARKED ON THE RIGHT OF WAY.



 *Texas Department of Transportation*
 Maintenance Division
 Standard Plans

STRIP MOWING
 (DIVIDED HIGHWAYS)
 STRIP-MOW-D-04

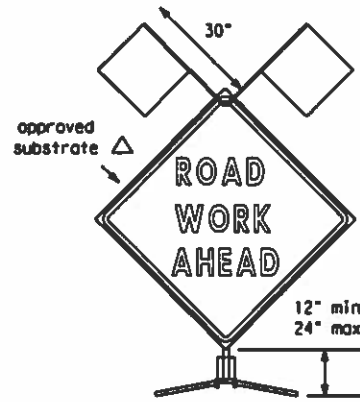
SHEET 1 OF 1		NOT TO SCALE										
FILE:	SMOWD04.DGN	DN:	LJB	CK:	JG	DR:		CK:		MEG NO.:		
© TxDOT JUNE 2004		STATE DISTRICT	14	FEDERAL REGION		MAINTENANCE PROJECT NO.		RMC 636893001			SHEET	8
REVISED:	6/03/2004					COUNTY	CONTROL	SECTION	JOB	HIGHWAY		
REVISED:						LEE	6368	93	001	US 290		

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.

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
------------------	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

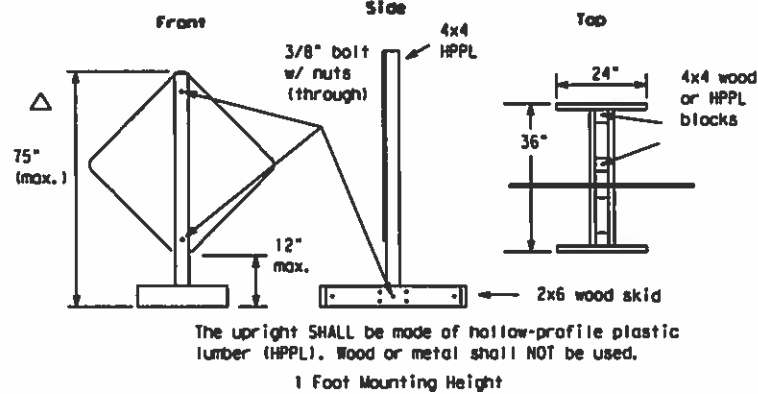
EXAMPLES OF SIGN SUPPORTS

See the CWZTCO 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

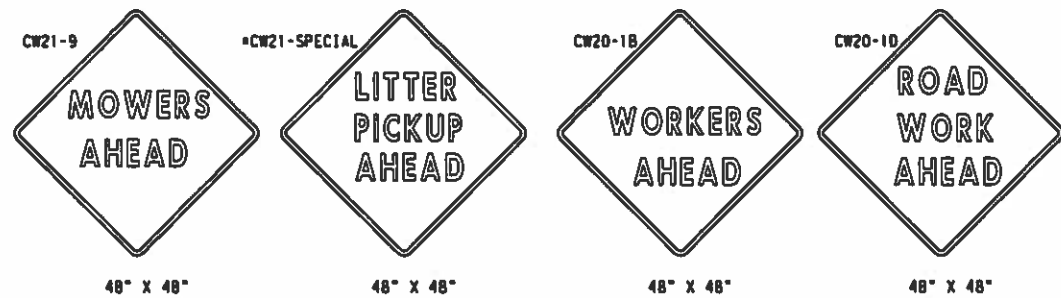
SHORT TERM DURATION, DAYTIME USE ONLY PORTABLE SIGN SUPPORTS



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.



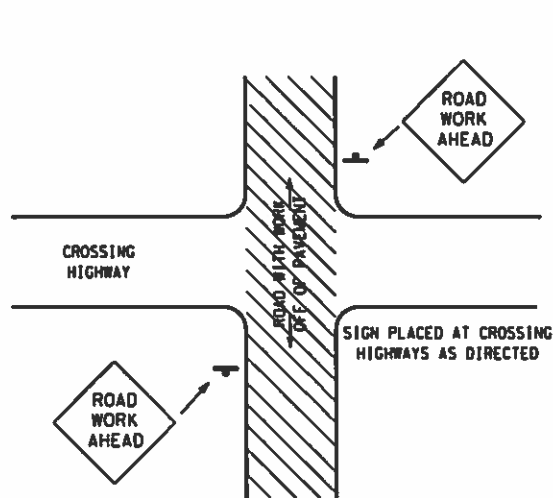
SIGN IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS

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 CWZTCO ALLOWED

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



TYPICAL LOCATION OF SIGNS AT HIGHWAY CROSSING

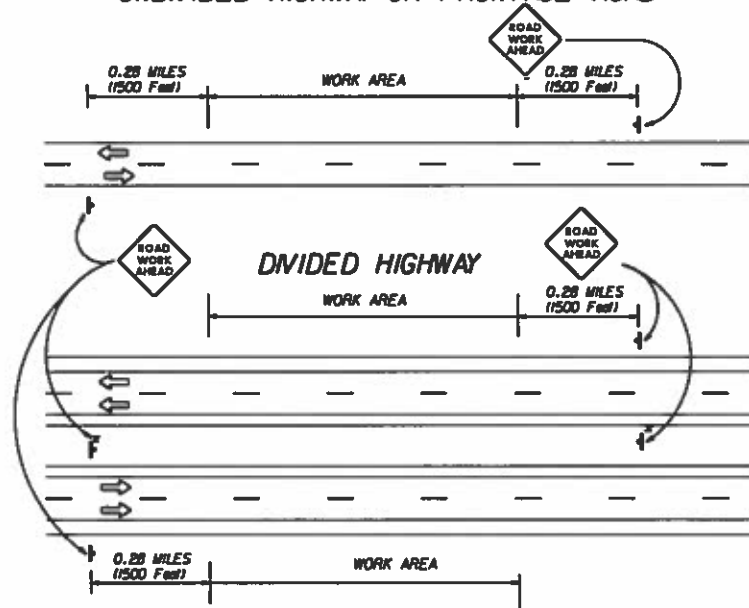
WORK AREA IS A MAXIMUM OF 2.0 MILES UNLESS OTHERWISE DIRECTED. SIGNS MAY REMAIN IN PLACE ONLY DURING DAYLIGHT HOURS.

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" (CWZTCO). 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 CWZTCO 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: https://manuals.dot.state.tx.us:80/dynaweb/calmates/#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" (CWZTCO) 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 "CWZTCO" 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: RSTCPOS.DGN	DR: LJB	CR: JG
DATE: FEBRUARY 2005	STATE DISTRICT: 14	FURNISHING PROJECT NO: RMC 636893001
REVISION: SEPTEMBER 11, 2004		SHEET: 9
REVISION: FEBRUARY 2, 2005	COUNTY: LEE	CONTROL SECTION: 6368 93 001
REVISION: SIGN DIMENSIONS IN TOP		JOB: 001
		HIGHWAY: US 290