

FED. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	RMC: 644718001		1
STATE	STATE DISCR.	COUNTY	
TEXAS	22	VAL VERDE	
CONTR.	SECT.	JOB	HIGHWAY NO.
6447	18	001	US277, etc.

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STATE OF TEXAS
TEXAS DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED
HIGHWAY ROUTINE MAINTENANCE CONTRACT
 PROJECT NO. RMC: 644718001
 PROJECT LENGTH : VARIOUS
 PROJECT LIMITS : VARIOUS
 COUNTY : VALVERDE
 HIGHWAY : US277, etc.
 CCSJ# 6447-18-001
FOR THE MOWING OF HIGHWAYS RIGHT-OF-WAY

FINAL PLANS

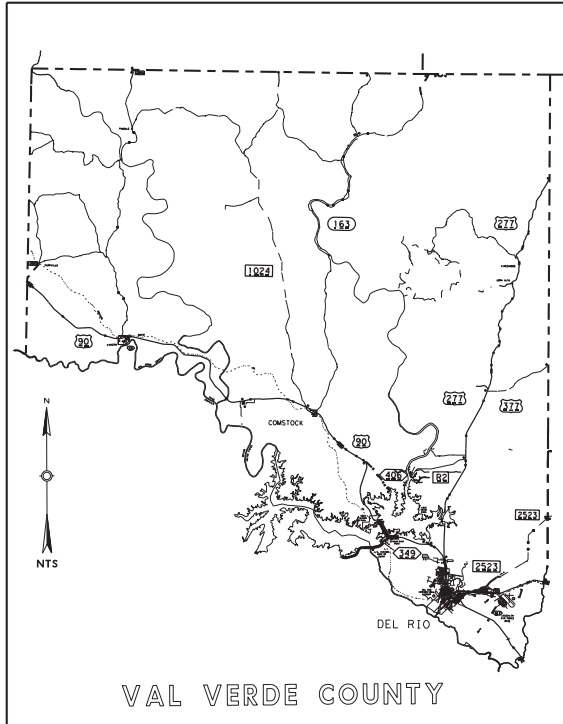
Letting Date : _____

Work Began : _____

Date Accepted : _____

Contractor : _____

Total Cost : _____



SUBMITTED 7/13/2023
FOR LETTING:

DocuSigned by:
Rogelio Chapa
ROGELIO CHAPA, P.E.
TRANSPORTATION ENGINEER

APPROVED 7/12/2023
FOR LETTING:

DocuSigned by:
Roberto Rodriguez III
ROBERTO RODRIGUEZ, P.E.
DIRECTOR OF MAINTENANCE

RECOMMENDED 7/13/2023
FOR LETTING:

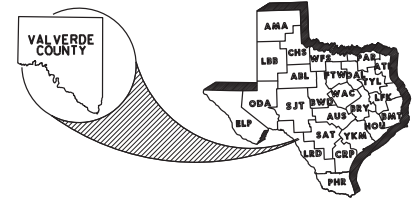
DocuSigned by:
Vanessa Rosales-Herrera
VANESSA ROSALES-HERRERA, P.E.
AREA ENGINEER

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED WITH A SINGLE ASTERISK (*) HAVE BEEN ISSUED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

DATE 7/13/2023

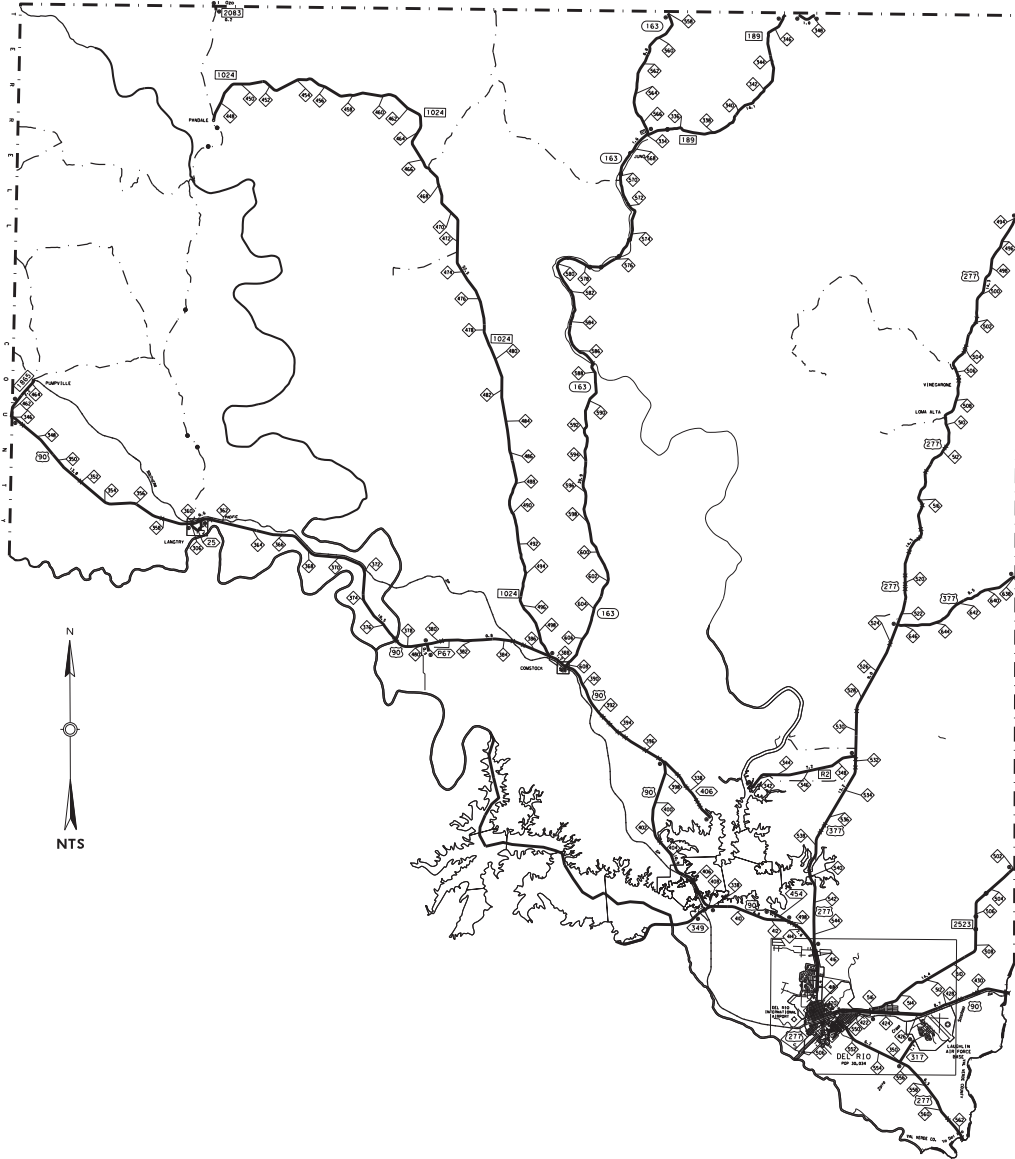
DocuSigned by:
Rogelio Chapa
ROGELIO CHAPA, P. E.

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

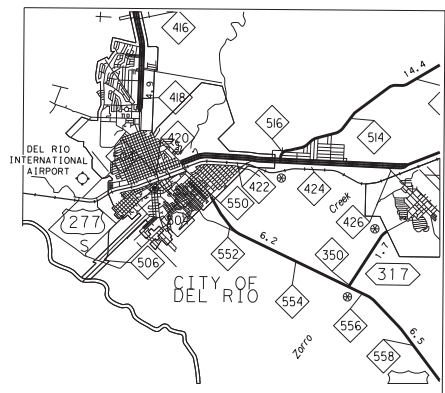


GEOGRAPHIC LOCATION

7/12/2023 SPACHICA, I: \LRDDSTWNT\FY 2023\MNT Contracts (FY23) Mowing of Highway Right of Way\Val Verde\CAD\2-1-LOC MAP.dgn



VAL VERDE COUNTY					
HIGHWAY	TRACT NO.	LIMITS	FROM		LENGTH (Miles)
			R. M.	R. M.	
US90 W	1	AMISTAD RESERVOIR - TERREL CNTY LINE	346	406	61.0
US90 E	2	END OF TWO WAY SECTION TO SYCAMORE CREEK BRIDGE	426	432	6.0
US277 N	3	2.6 MI S OF RED BLUFF CREEK - EDWARDS CNTY LINE	494	518	23.9
US277 N	4	2.6 MI S OF RED BLUFF CREEK - END OF TWO SECTION	518	545	26.9
US277 S	5	S OF CITY LIMITS TO RM 552 - 8 MI	550	552	1.8
US277 S	6	SYCAMORE CREEK BRIDGE 9.5 MI NORTHWEST	552	564	9.8
US377	7	INT US 277 N - EDWARDS CNTY LINE	638	647	8.5
SH163	8	INT US 90 W - CROCKETT CNTY LINE	558	609	50.2
RM189	9	INT SH 163 - 12.4 MI N	334	349	14.1
RM1024	10	US 90 - END OF PAVEMENT	446	498	52.3
RM1865	11	INT US 90 W - TO END OF PAVEMENT	462	466	2.2
RM2523	12	US 90 E - KINNEY CNTY LINE	502	516	14.4
SL25	13	EAST TO WEST	306	308	1.3
SL79	14	FROM: INT US90 TO: INT US277	470	482	12.0
SS406	15	INT US 90 W - END OF PAVEMENT	336	340	3.7
SS454	16	INT US 90 W - END OF PAVEMENT	498	499	0.7
SS317	17	INT US 277 S - BACK ENTRANCE OF LAUGHLIN AFB	350	352	1.7
SS239	18	US 277 OVERPASS S (S SIDES)	504	506	0.5
SS239	19	MEXICO PORT OF ENTRY ON SP 239 TO AVE T	504	506	2.2
US90 W	20	RM 418 DIVIDED HWY AT BURGER KING TO AMISTAD BRIDGE	408	418	11.0
US90 E	21	SAN FELIPE SPRINGS TO END OF TWO WAY SECTION PAST LAUGHLIN AFB	420	426	6.5
RE2	22	INT RE-2 AND US 277 TO END OF PAVEMENT	342	350	7.2
SS349	23	GOVERNORS LANDING ENTRANCE TO AMISTAD DAM HDQTRS	338	340	0.9
TOTAL					318.8



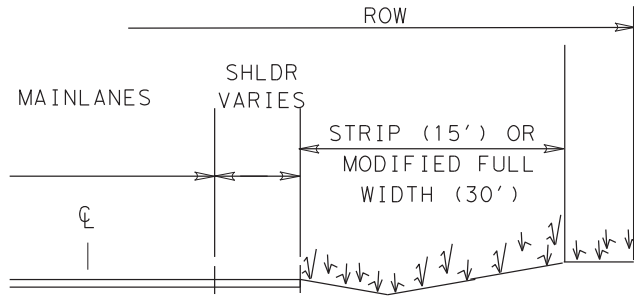
INSET - DEL RIO



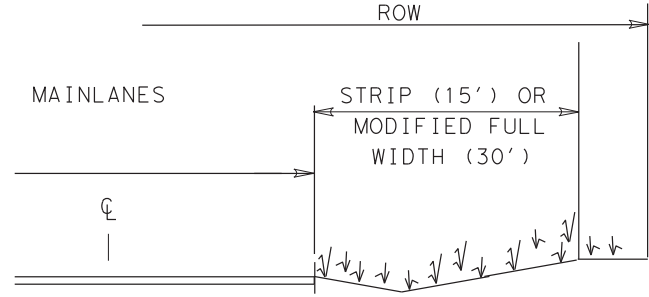
LOCATION MAP

DN: H AFC	DN: H AFC	STATE	SHEET NUMBER		SHEET NO.
CR: RC	CR: RC	TEXAS			
FED. NO.	STATE	COUNTY	CONTROL	SECTION	JOB
6	22	VAL VERDE	6447	18	001 US277, ETC

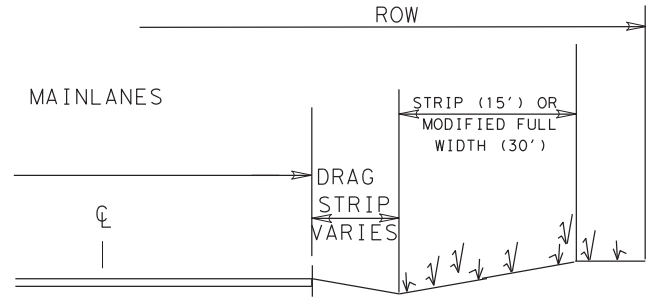
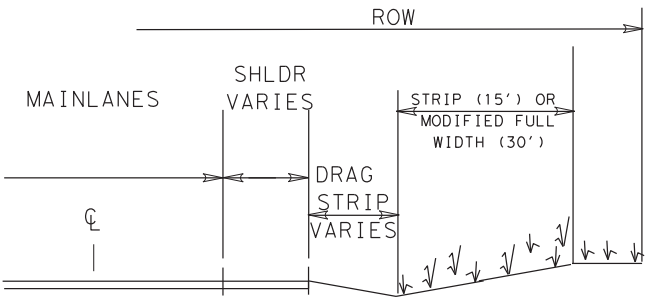
7/12/2023 5PACHICA I: \URDDST\MNT\FY 2023\MNT Contracts (FY23) \Mowing of Highway Right of Way\Val Verde\CAD\3-TYPSECTION.dgn



TYPICAL SECTION A
SYMMETRICAL TO CENTER LINE



TYPICAL SECTION B
SYMMETRICAL TO CENTER LINE



GENERAL NOTES

- A. MOW FROM EDGE OF PAVEMENT , APPLIES TO BOTH STRIP AND MODIFIED FULL WIDTH MOWING
- B. MOW FROM EDGE OF DRAG STRIP.
- C. DRAG STRIP IS BARREN GROUND (CALICHE, GRAVEL, OR UNVEGETATED GROUND).

TEXAS DEPARTMENT OF TRANSPORTATION
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**TYPICAL SECTIONS
RIGHT OF WAY MOWING
ON HIGHWAYS**

Dist: HAFc	Dist: HAFc	STATE	SHEET NUMBER		SHEET NO.
Dist: RC	Dist: RC	TEXAS			
FED. NO.	STATE	COUNTY	CONTROL	SECTION	JOB
6	22	VAL VERDE	6447	18	001\5277, ETC

GENERAL NOTES:

The contract becomes effective upon receipt of the work authorization letter and covers one (1) years. Provide sufficient staff to concurrently pursue each contract in the event that additional mowing contracts are awarded to the same contractor.

Contractor questions on this project are to be addressed to the following individuals:

Rogelio Chapa, P.E. - rogelio,chapa@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:

<http://tableau.txdot.gov/views/ProjectInformationDashboard/NoticeToContractors>

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. The Letting Pre-Bid Q&A webpage for each project can be accessed by using the dashboard to navigate to the project using the controls on the left. Hover over the blue hyperlink for the project out want to view the Q&A for and click on the link in the window that pops up.

Confine all operations to daylight hours with no work performed on Sundays or State-observed holidays, unless otherwise authorized by the Engineer.

Repair and/or replace guardrail, posts, bolts, nuts, etc., in those areas where entry cannot be made in any other way.

The approximate quantities determined for this project are for informational purposes only and are not to be considered as actual quantities. Contractors are hereby instructed to assure themselves of the actual conditions of the work area before bidding.

SUPERVISION:

The engineer's representative in charge of the inspection of all work in that county is the maintenance supervisor listed below.

For this project the roadway maintenance supervisor in charge is:

Val Verde County
Francis Schell
E. Gibbs St.
Del Rio, TX 7840-4070
830-703-1446
francis.a.shell@txdot.gov

When arrow boards are required, provide a standby unit in good working condition at the jobsite ready for immediate use.

Placement and removal of all traffic control devices will be done within the working hours listed.

HAY BAILING:

Hay bailing shall not be permitted.

WORK PROSECUTION:

Written notification will be given to begin mowing operations via work order. The work order will consist of the applicable mowing cycle, the number of working days allowed to complete the cycle, and date when the time charges for said cycle will start. Contractor will commence mowing within 10 business days of notification. Fall cut(s) should be performed between October 15 through December 20, weather permitting. Summer cut(s) should begin no sooner than May 20. Contractor request for variation(s) from these time frames will need prior approval from the Engineer. The number of working days allowed to complete the mowing cycle will be determined by the Engineer based upon the minimum amount of mowing acreage required per working day. For this contract, the mowing acreage required per normal working days is 125 acres of Strip Mowing and 125 acres of Full Width Mowing. Except for Spot Mowing, additional acres may be required to be mowed while the Contractor is mowing. Additional working days for these added acres will be determined and allowed by the Engineer based on the minimum daily mowing acreage required per applicable cycle.

Charge liquidated damages as per "Schedule of Liquidated Damages" if work is not completed in the specified timeframe.

ITEM 7 LEGAL RELATIONS & RESPONSIBILITIES:


Roadway closures during the following key dates and/or special events are prohibited: January 1, the last Monday in May, July 4, the first Monday in September, the fourth Thursday in November, and December 24 or 25.

ITEM 502 BARRICADES, SIGNS AND TRAFFIC HANDLING:

Provide traffic control in accordance with plan standards and specifications and the Texas Manual on Uniform Traffic Control Devices.

Traffic control shall not be paid for directly, but shall be subsidiary to pertinent bid items.

7/13/2023 5PACHICA I: \URDDST\MT\FY 2023\MNT Contracts (FY23)\Mowing of Highway Right of Way\Val Verde\CD4-5-GND\TES.dgn



GENERAL NOTES

DN: H AFC	DN: H AFC	STATE	SHEET NUMBER		SHEET NO.
CR: RC	CR: RC	TEXAS			
FED. NO.	STATE	COUNTY	CONTROL	SECTION	JOB
DIV. NO.	DIST. NO.				HIGHWAY NO.
6	22	VAL VERDE	6447	18	001\5277, ETC

7/13/2023 5PACHICA T:\URDD5\TMT\FY 2023\NMT Contracts (FY23)\Mowing of Highway Right of Way\Val Verde\CAD-4-5-GND\TES.dgn

Signs will have two safety flags attached to it at all times. It will not be permissible to hang or lean these signs on or against the State's sign posts, guardrails, bridge rail, etc. "Mowers Ahead" sign is intended for use in advance of mowing operations on the progress to keep within 2 miles or less from the work area. All sign stands and safety flags will be provided by the contractor.

ITEM 730 ROADSIDE MOWING:

SCOPE OF WORK:

Refer to the 2014 Standard Specifications for additional information.

Trimming is required around all guardrails, the face of retaining walls, bridge sloped riprap embankments, concrete appurtenances such as sidewalks, sign foundations, etc., and around all landscape plantings within the right of way regardless of location.

Strip mowing shall be a maximum of 15 feet wide along the edge of pavement, unpaved shoulders or end of drainage structures.

Full Width Mowing Tract 1 represents a Modified 30 feet wide mowing along the edge of the pavement or where vegetation commences.

The state has the option of any or all tracts strip mowed from the Right of Way line inward or from the edge outward.

Mowing is not allowed during the wildflower blooming/growing season.

Trim limbs/branches to ensure visibility of traffic signs. Work is subsidiary to mowing items. Contractor to document roadway location(s) and stockpile branches by Right-of-Way fence. Provide list to Maintenance Supervisor.

Mowing for sight distance per standard is required and shall be considered subsidiary to pertinent bid items. See standard Standard-Mow-ND-04 and Strip-Mow-D-04 for more detailed information.


At the time of letting for this contract, there may be locations of existing Metal Beam Guard Fence (MBGF), concrete traffic barriers, and/or other types of traffic barriers in the ROW within the limits of this mowing contract. The contractor is responsible for traveling the highways within this contract to determine what type of mowing equipment will be necessary for mowing these narrow areas.

Conventional batwing mowers may not be suitable or acceptable for mowing along the narrow side of existing or new traffic barrier. Encroachment of equipment onto the paved shoulder or travel lane will not be permitted for mowing this narrow width area. Therefore, the contractor must utilize mowing equipment that will not encroach into or adversely affect traffic in the travel lanes. Encroaching onto the roadway will require mobile traffic control for a mobile operation in accordance with applicable standards and specifications.

There will be no adjustment to the unit bid prices on this contract for mowing along existing or new traffic barrier, MBGF, and/or any other type of traffic barrier and any additional or alternative equipment, additional labor, or other anticipated expenses necessary to complete the work required by this contract will be paid for at the unit price bid for the items in this contract. No additional payment will be made for mowing of these narrow width areas along existing or new traffic barrier.

Equipment:

Equipment must have four daytime fluorescent orange flags in good condition, 2 mounted on the rear of the equipment and 2 mounted on the front of the equipment. Provide highly visible omnidirectional amber flashing warning lights on tractors and work trucks. Ensure that all workers have personal equipment as per Item 7.2.1 "Safety".



TEXAS DEPARTMENT OF TRANSPORTATION
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GENERAL NOTES

DN:	H AFC	DN:	H AFC	STATE:		SHEET NUMBER:		SHEET NO.:	
CR:	RC	CR:	RC	STATE:	TEXAS				
FED. NO.:	STATE:	COUNTY:	CONTROL:	SECTION:	JOB:	HIGHWAY NO.:			
6	22	VAL VERDE	6447	18	001	US277, ETC			5



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 6447-18-001

DISTRICT Laredo
HIGHWAY US0277

COUNTY Val Verde


CONTROL SECTION JOB				6447-18-001		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00198968			
COUNTY				Val Verde			
HIGHWAY				US0277			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	730-6001	STRIP MOWING	AC	1,057.000		1,057.000	
	730-6002	FULL - WIDTH MOWING	AC	3,456.000		3,456.000	
	730-6054	FULL - WIDTH MOWING - TRACT (1)	AC	1,974.000		1,974.000	

VAL VERDE COUNTY MOWING TRACTS

VAL VERDE COUNTY											EST.		ROADSIDE MOWING STRIP (15')			ROADSIDE MOWING FULL (ROW)			ROADSIDE MOWING MODIFY (30')		
HIGHWAY	TRACT NO.	LIMITS	FROM R. M.	TO R. M.	LENGTH (MILES)	CYCLES	FULL MOW FT	MOW FT	ITEM 730-6001 STRIP MOWING			ITEM 730-6002 FULL WIDTH MOWING			ITEM 730-6054 FULL WIDTH MOWING-TRACT1						
									QTY	AC	TOTAL	QTY	AC	TOTAL	QTY	AC	TOTAL				
US90 W	1	AMISTAD RESERVOIR - TERREL CNTY LINE	346	406	61.0	3	113.7	57	1	221.92	221.92	1	841.17	841.17	1	443.85	443.85				
US90 E	2	END OF TWO WAY SECTION TO SYCAMORE CREEK BRIDGE	426	432	6.0	3	90.8	45	1	21.75	21.75	1	65.81	65.81	1	43.51	43.51				
US277 N	3	2.6 MI S OF RED BLUFF CREEK - EDWARDS CNTY LINE	494	518	23.9	3	81.5	41	1	86.87	86.87	1	236.13	236.13	1	173.73	173.73				
US277 N	4	2.6 MI S OF RED BLUFF CREEK - END OF TWO SECTION	518	545	26.9	3	110.9	55	1	97.90	97.90	1	361.77	361.77	1	195.80	195.80				
US277 S	5	S OF CITY LIMITS TO RM 552 - 8 MI	550	552	1.8	3	45.9	23	1	6.60	6.60	1	10.09	10.09	1	10.09	10.09				
US277 S	6	SYCAMORE CREEK BRIDGE 9.5 MI NORTHWEST	552	564	9.8	3	91.2	46	1	35.68	35.68	1	108.45	108.45	1	71.35	71.35				
US377	7	INT US 277 N - EDWARDS CNTY LINE	638	647	8.5	3	103.7	52	1	30.76	30.76	1	106.34	106.34	1	61.53	61.53				
SH163	8	INT US 90 W - CROCKETT CNTY LINE	558	609	50.2	3	43.3	22	1	182.62	182.62	1	263.45	263.45	1	263.45	263.45				
RM189	9	INT SH 163 - 12.4 MI N	334	349	14.1	3	52.9	26	1	51.28	51.28	1	90.49	90.49	1	90.49	90.49				
RM1024	10	US 90 - END OF PAVEMENT	446	498	52.3	3	60.8	30	1	190.08	190.08	1	385.03	385.03	1	380.16	380.16				
RM1865	11	INT US 90 W - TO END OF PAVEMENT	462	466	2.2	3	47.6	24	1	8.15	8.15	1	12.93	12.93	1	12.93	12.93				
RM2523	12	US 90 E - KINNEY CNTY LINE	502	516	14.4	3	64.6	32	1	52.27	52.27	1	112.56	112.56	1	104.55	104.55				
SL25	13	EAST TO WEST	306	308	1.3	3	58.0	29	1	4.85	4.85	1	9.39	9.39	1	9.39	9.39				
SL79	14	FROM: INT US90 TO: INT US277	470	482	12.0	3	51.0	25	1	43.64	43.64	1	74.18	74.18	1	74.18	74.18				
SS406	15	INT US 90 W - END OF PAVEMENT	336	340	3.7	3	106.1	53	1	13.52	13.52	1	47.80	47.80	1	27.04	27.04				
SS454	16	INT US 90 W - END OF PAVEMENT	498	499	0.7	3	98.6	49	1	2.49	2.49	1	8.17	8.17	1	4.97	4.97				
SS317	17	INT US 277 S - BACK ENTRANCE OF LAUGHLIN AFB	350	352	1.7	3	34.0	17	1	6.21	6.21	1	7.04	7.04	1	7.04	7.04				
SS239	18	US 277 OVERPASS S (S SIDES)	504	506	0.5	3	43.1	22	0	1.82	0.00	3	2.61	7.84	0	2.61	0.00				
SS239	19	MEXICO PORT OF ENTRY ON SP 239 TO AVE T	504	506	2.2	3	79.5	40	0	7.87	0.00	3	20.84	62.53	0	15.73	0.00				
US90 W	20	RM 418 DIVIDED HWY AT BURGER KING TO AMISTAD BRIDGE	408	418	11.0	3	69.1	35	0	39.96	0.00	3	92.04	276.11	0	79.93	0.00				
US90 E	21	SAN FELIPE SPRINGS TO END OF TWO WAY SECTION PAST LAUGHLIN AFB	420	426	6.5	3	63.9	32	0	23.57	0.00	3	50.21	150.63	0	47.14	0.00				
RE2	22	INT RE-2 AND US 277 TO END OF PAVEMENT	342	350	7.2	3	66.9	33	0	26.18	0.00	3	58.42	175.25	0	52.36	0.00				
SS349	23	GOVENORS LANDING ENTRANCE TO AMISTAD DAM HDQTRS	338	340	0.9	3	128.6	64	0	3.35	0.00	3	14.34	43.01	0	6.69	0.00				
TOTAL					318.8		1,577				1,057		3,456			1,974					

NOTES:

1. -STRIP MOWING TO BE MAXIMUM (15') FIFTEEN FEET WIDE WHEN CALLOUT ON ROADWAYS.
2. -FULL WIDTH MOWING TRACT 1 REPRESENTS A MODIFIED 30' FEET WIDTH MOWING STRIP ALONG THE EDGE OF THE PAVEMENT OR WHERE VEGETATION COMMENCES.
3. -THE STATE HAS THE OPTION OF ANY OR ALL TRACTS STRIP MOWED FROM THE RIGHT OF WAY LINE INWARD OR FROM THE EDGE OF PAVEMENT OUTWARD.
4. -MOWING IS NOT ALLOWED DURING THE WILDFLOWER BLOOMING/GROWING SEASON.
5. -TRIM LIMBS/ BRANCHES THAT BLOCK TRAFFIC SIGNS. WORK IS SUBSIDIARY TO MOWING ITEMS. CONTRACTOR TO DOCUMENT ROADWAY LOCATION(S) AND STOCKPILE BRANCHES BY RIGHT-OF-WAY FENCE. PROVIDE LIST TO MAINTENANCE SUPERVISOR.
6. -MOWING FOR SIGHT DISTANCE PER STANDARD IS REQUIRED AND SHALL BE CONSIDERED SUBSIDIARY TO PERTINENT BID ITEMS. SEE STANDARD STRIP-MOW-ND-04 AND STRIP-MOW-D-04 FOR MORE DETAILED INFORMATION.



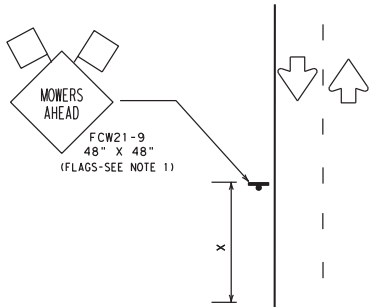
Texas Department of Transportation
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SUMMARY OF TRACTS & QUANTITIES

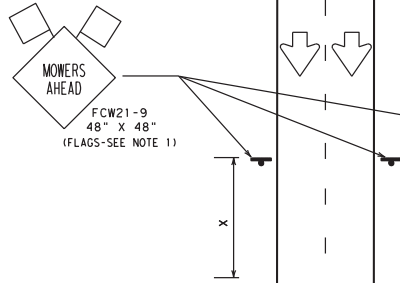
DN: H AFC	DN: H AFC	STATE	SHEET NUMBER		SHEET NO.
CR: RC	CR: RC	TEXAS			
FED. NO.	STATE	COUNTY	CONTROL	SECTION	JOB
6	22	VAL VERDE	6447	18	001US277, ETC

7/12/2023 SPACHICA I: \URDDST\MT\CY 2023\MNT Contracts (FY23) Mowing of Highway Right of Way\Val Verde\CAD 7-SUMTRACTS.dgn

7/12/2023 5PACHICA.T:\LRDDST\MT\FY 2023\MNT Contracts (FY23)\Mowing of Highway Right of Way\Val Verde\CAD\STANDARD\ADS\MOWROW.dgn



WORK AREA
2 MILES MAXIMUM



WORK AREA
2 MILES MAXIMUM

WORK AREA
2 MILES MAXIMUM

WORK AREA
2 MILES MAXIMUM

LEGEND

□ Flag
 Sign Post

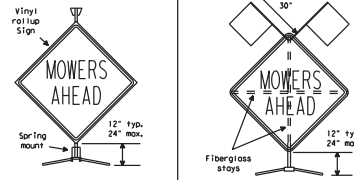
Posted Speed	Minimum Sign Spacing x Distance
30	120'
35	160'
40	240'
45	320'
50	400'
55	500'
60	600'
65	700'
70	800'

GENERAL NOTES:

1. Flags attached to signs are **REQUIRED**.
2. All traffic control devices illustrated are **REQUIRED**.
3. The warning signs shall be adjusted as the work progresses to keep within two (2) miles or less from the work area.
4. All signs shall be mounted in portable stands. It is not permissible to hang or lean these signs on or against the State's sign post, guardrails, bridge rail, etc.

TCP (LRD-MWGa)
Two-Lane Highway

TCP (LRD-MWGb)
Multi-Lane Divided Highway



Short Term Stationary/ Short Duration
Portable Sign Supports
1 Foot Mounting Height
(SEE NOTE 4)

TEXAS DEPARTMENT OF TRANSPORTATION
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**TRAFFIC CONTROL PLAN
MOWING RIGHT-OF-WAY**

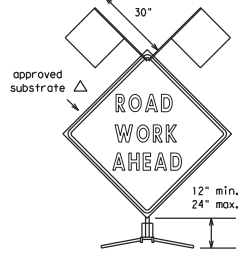
DN: HAFc	DN: HAFc	STATE	SHEET NUMBER		SHEET NO.
CR: RC	CR: RC	TEXAS			
FED. NO.	STATE	COUNTY	CONTROL SECTION	JOB	HIGHWAY NO.
6	22	VAL VERDE	6447	18	001US277, ETC

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

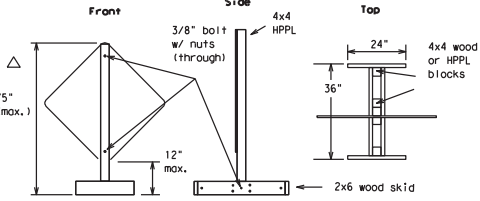
EXAMPLES OF SIGN SUPPORTS

See the 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

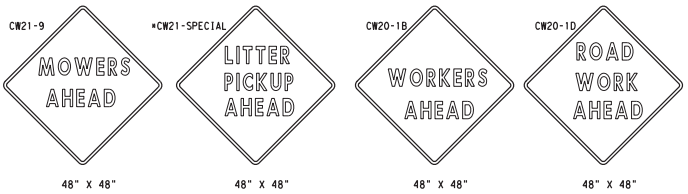
SHORT TERM DURATION, DAYTIME USE ONLY PORTABLE SIGN SUPPORTS



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

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.



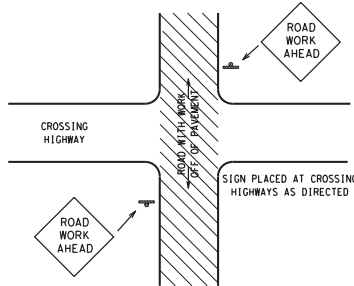
SIGN IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS

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

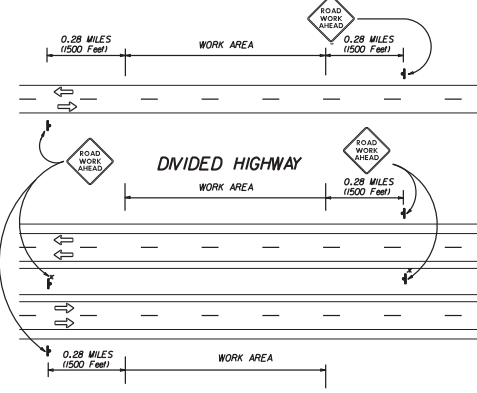


TYPICAL LOCATION OF SIGNS AT HIGHWAY CROSSING

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 TMCUTD 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 with 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/dynweb/colmatcs/#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:

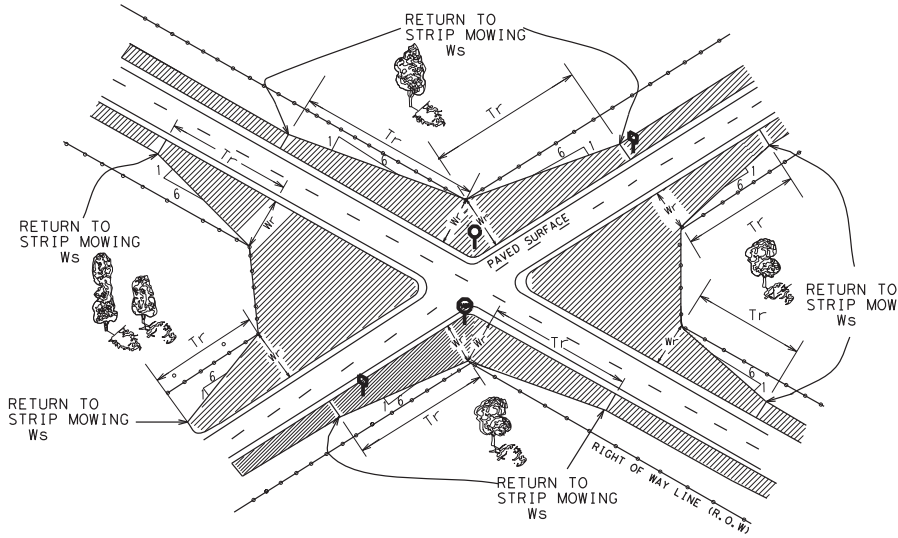
Start at website - www.dot.state.tx.us
Click on "About TxDOT",
Click on "Organizational Chart",
Click on "Traffic Operations Box",
Click on "Compliant Work Zone Traffic Control Devices",
Click on "View PDF".
This site is printable.

Texas Department of Transportation
Maintenance Division
Standard Plans

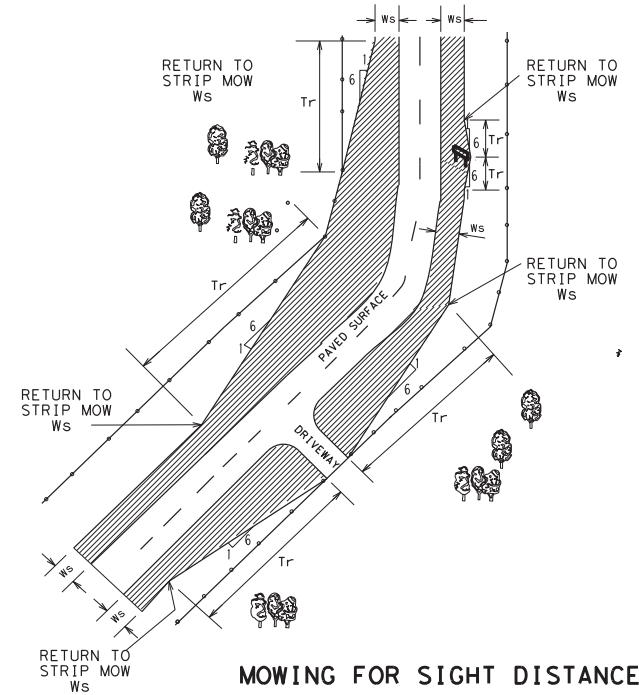
ROADSIDE TRAFFIC CONTROL PLAN

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

FILE#	RSTCP05.DGN	DATE	22	STATE DISTRICT	6	FEDERAL REGION	RMC:644710001	SHEET	9
REVISED	SEPTEMBER 17, 2004								
REVISED	FEBRUARY 7, 2005			COUNTY		CONTROL SECTION	6447	JOB	18
REVISED				VAL VERDE				HIGHWAY	001 HS 277, etc.



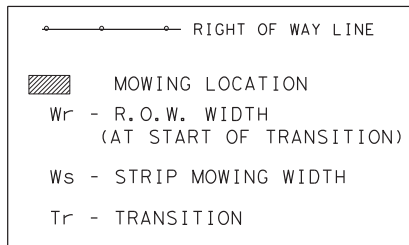
MOWING FOR SIGHT DISTANCE
WITH TRANSITION FROM INTERSECTION
BACK TO STRIP MOWING



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.



STRIP MOWING NON-DIVIDED HIGHWAYS

STRIP-MOW-ND-04

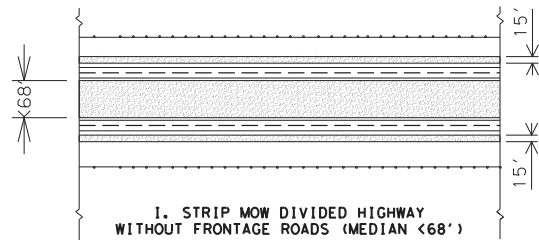
SHEET 1 OF 1 NOT TO SCALE

FILE:	SMOWND04.DGN	DN:	CK:	DW:	CK:	NEG NO.:
	© TxDOT 2004	STATE DISTRICT	FEDERAL REGION	FEDERAL AID PROJECT		SHEET
REVISED:	5/18/2004	22	6	RMC: 644718001		10
REVISED:		COUNTY			CONTROL SECTION	JOB HIGHWAY
REVISED:		VAL VERDE			6447 18	001 US 277, etc

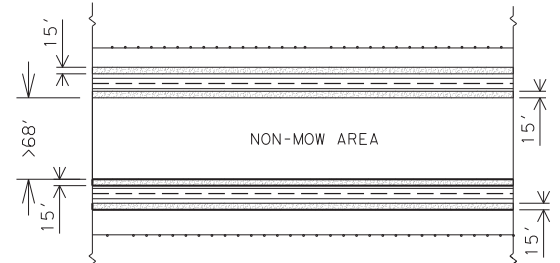
DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

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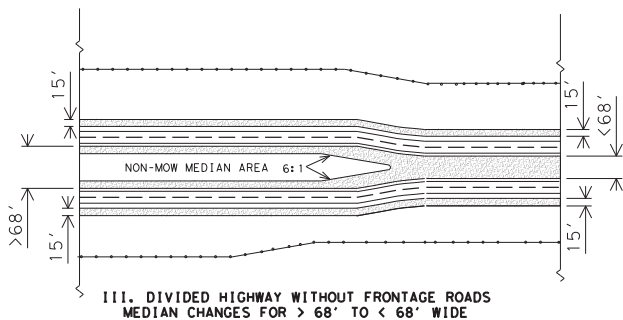
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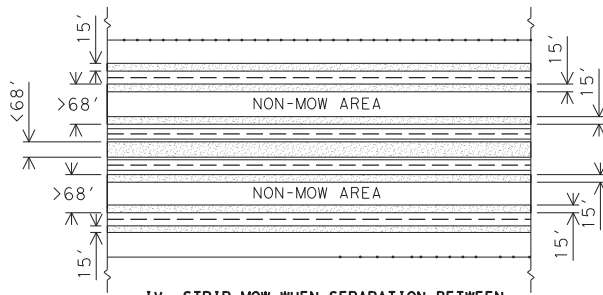
I. STRIP MOW DIVIDED HIGHWAY WITHOUT FRONTAGE ROADS (MEDIAN <68')



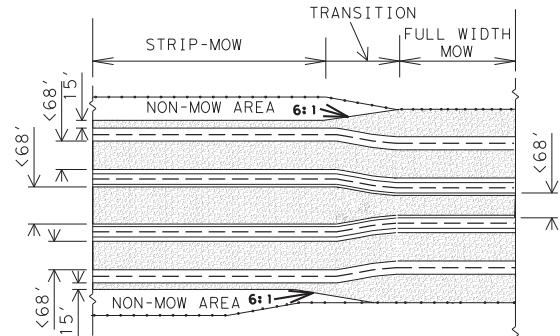
II. STRIP MOW DIVIDED HIGHWAY WITHOUT FRONTAGE ROADS (MEDIAN >68')



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'

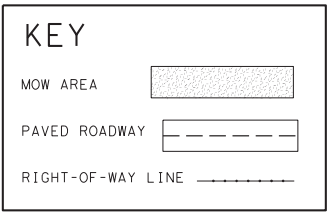


V. TRANSITION FROM FULL WIDTH TO STRIP MOWING DIVIDED HIGHWAY WITH FRONTAGE ROADS (MEDIAN <68' WIDE)

GENERAL NOTES:

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

LEVELS OVER LANE	
1	2
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11	12
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57	58
59	60
61	62
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65	66
67	68
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75	76
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91	92
93	94
95	96
97	98
99	100



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:	CK:	DN:	CK:	NEG NO.:
© TxDOT JUNE 2004		STATE DISTRICT	FEDERAL REGION	FEDERAL AID PROJECT	SHEET
REVISED: 6/03/2004	22	6	RMC: 644710001		11
REVISED:	COUNTY		CONTROL SECTION	JOB	HIGHWAY
REVISED:	VAL VERDE		6447 18	001	US 277, etc