FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	RMC 637661001		
STATE	STATE DIST. NO.	COUNTY	
TEXAS	22	LA SALLE	
CONT.	SECT.	JOB	HIGHWAY NO.
6376	61	001	IH 35, ETC.

STATE OF TEXAS
TEXAS DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED
HIGHWAY ROUTINE MAINTENANCE CONTRACT

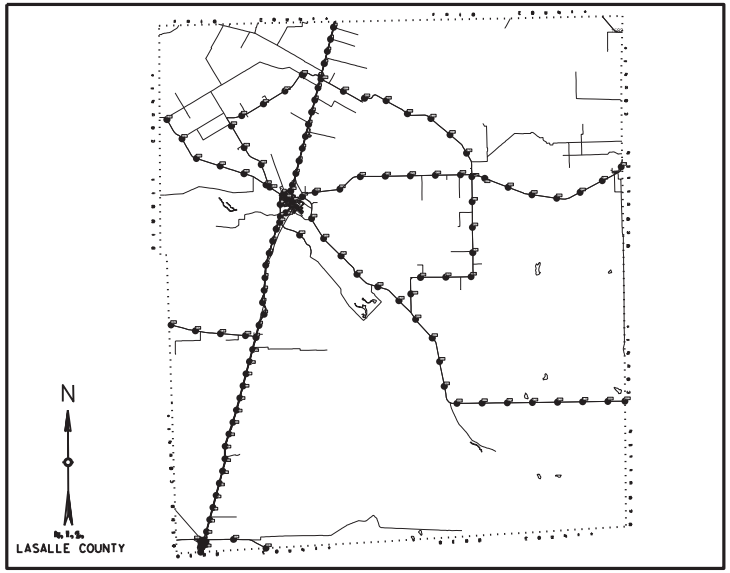
PROJECT NO. RMC 637661001
PROJECT LENGTH : VARIOUS
PROJECT LIMITS : VARIOUS
COUNTY : LA SALLE
HIGHWAY : IH 35, ETC.
CCSJ# 6376-61-001

FOR THE MOWING OF HIGHWAY RIGHT OF WAY

FINAL PLANS

Letting Date :
Work Began :
Date Accepted :
Contractor :
Total Cost :

INDEX OF SHEETS



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.

2/9/2021
DATE

DocuSigned by: Luis Castillo Jr.
LUIS CASTILLO JR., P.E.

STATE OF TEXAS
LUIS CASTILLO JR.
124814
LICENSED PROFESSIONAL ENGINEER

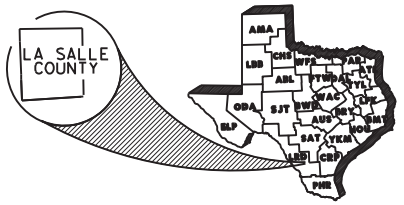
SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION, NOVEMBER 1, 2014 AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS, SHALL GOVERN ON THIS PROJECT.

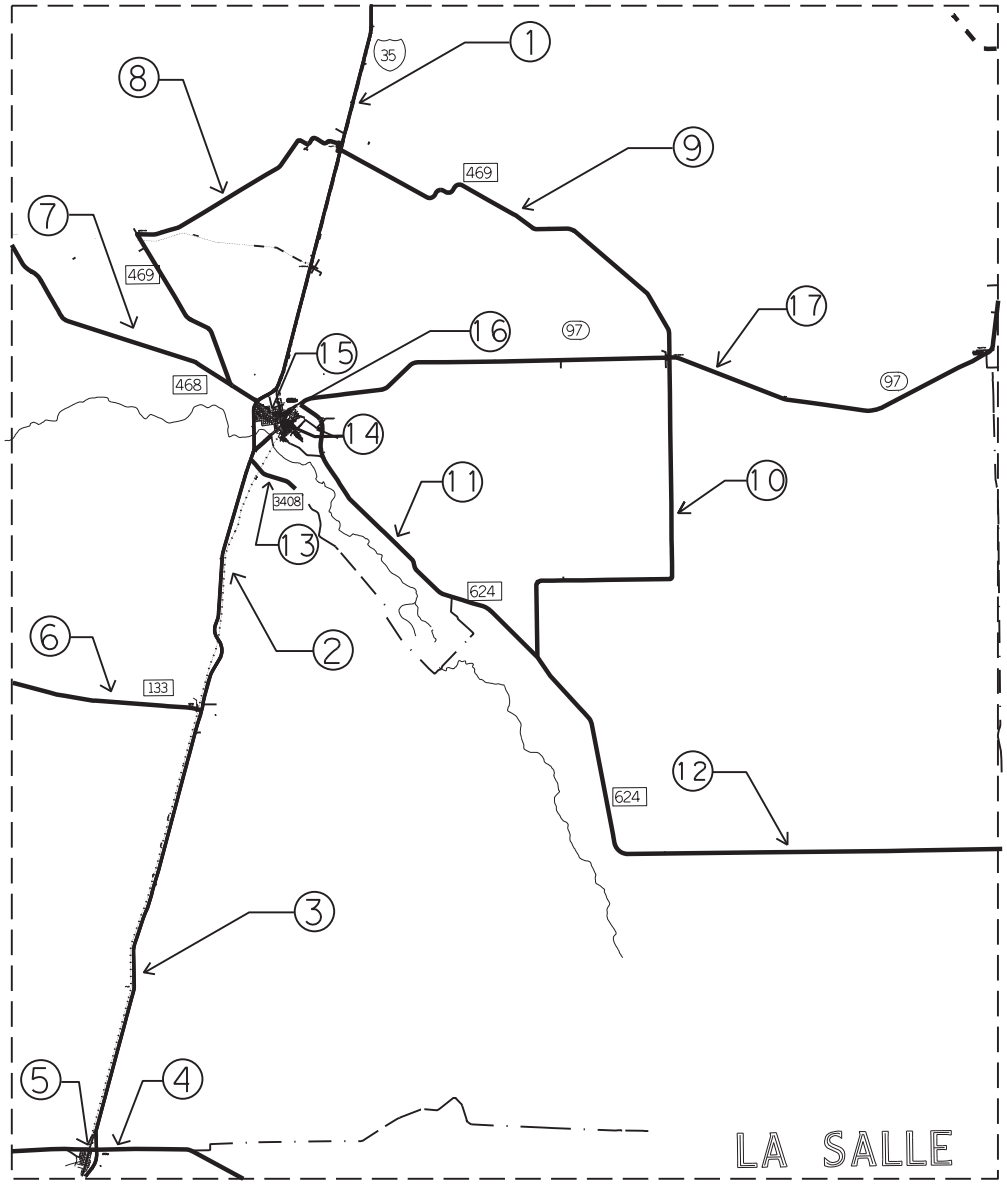
TEXAS DEPARTMENT OF TRANSPORTATION

SUBMITTED FOR LETTING: 2/9/2021 2021
DocuSigned by: Luis Castillo Jr.
TRANSPORTATION ENGINEER

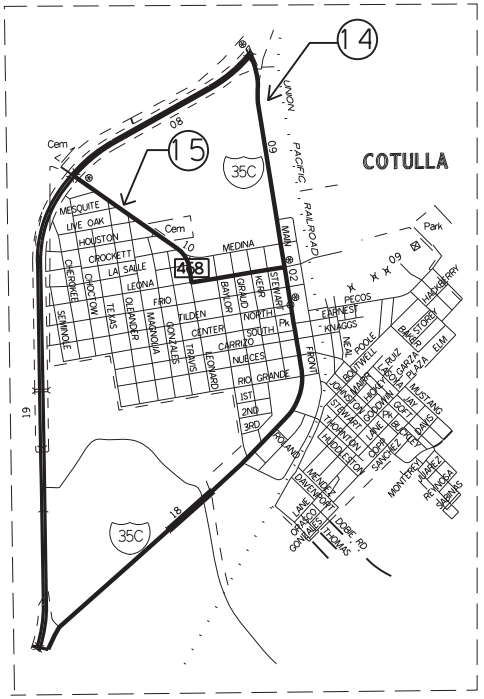
APPROVED FOR LETTING: 2/9/2021 2021
DocuSigned by: Cynthia M. Gaitan
DIRECTOR OF MAINTENANCE

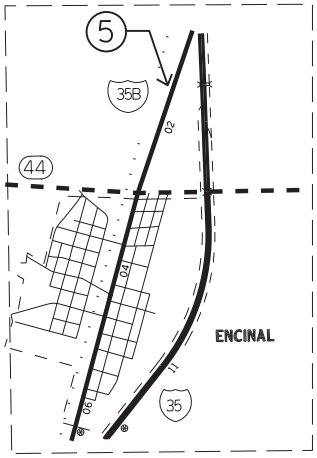
RECOMMENDED FOR LETTING: 2/9/2021 2021
DocuSigned by: Jose Franco III
AREA ENGINEER





INSET





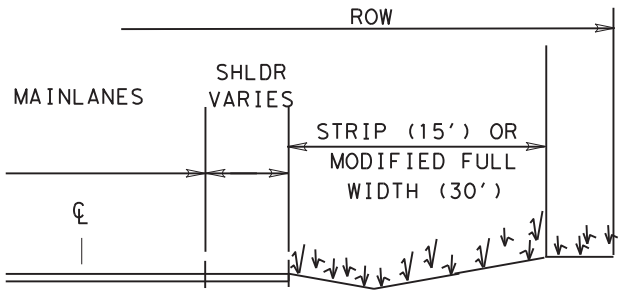
TEXAS DEPARTMENT OF TRANSPORTATION ®
© 2021

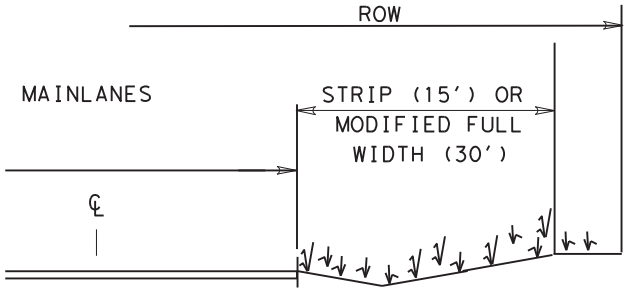
LOCATION MAP

DN: AO	CK: LC	STATE: TEXAS	SHEET NUMBER	SHEET NO.

FED. RD. DIV. NO.	STATE DIST. NO.	COUNTY	CONTROL	SECTION	JOB	HIGHWAY NO.
6	22	LA SALLE	6376	61	001	VARIOUS

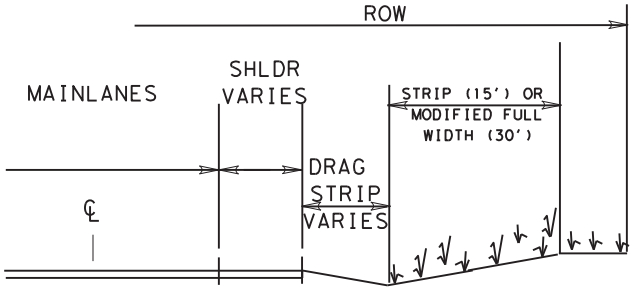
2/1/2021 AOCHOA T:\RDSTMNT\FY 2021\MNT Contracts\Mowing of Highway Right of Way\LaSalle\CAD\LOC MAP.DGN

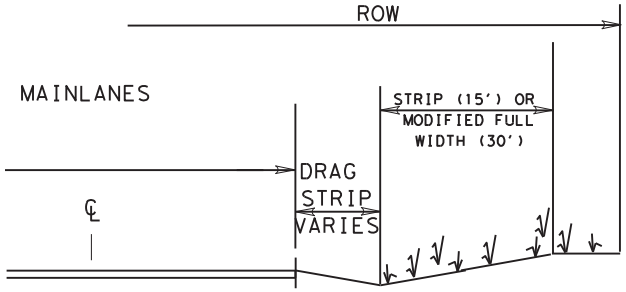




TYPICAL SECTION A

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).

TYPICAL SECTIONS RIGHT OF WAY MOWING ON HIGHWAYS

DN: AO	CK: LC	DW: AO	CK: LC	STATE	SHEET NUMBER	SHEET NO.
				TEXAS		

FED. RD. DIV. NO.	STATE DIST. NO.	COUNTY	CONTROL	SECTION	JOB	HIGHWAY NO.
6	22	LA SALLE	6376	61	001	VARIOUS

2/1/2021 AOCHOA T:\RDDSTMNT\FY 2021\MNT Contracts\Mowing of Highway Right of Way\LaSalle\CAD\TYPSECTION.dgn

GENERAL NOTES:

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

The contract can be extended via change order, not to exceed original contract duration. The time extension shall be at the original contract prices. Provide and maintain an e-mail address for receipt of work order and correspondence throughout the term of this contract.

Plans are required. Refer any questions to:

Contractor questions on this project are to be emailed to the following individual(s): Sergio Reyna at Sergio.reyna@txdot.gov.

Contractor questions will only be accepted through email to the above individuals.

All contractors' questions will be reviewed by the Area 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. This site is organized by: District, Project type (Construction or Maintenance), Letting Date, CCSJ/Project Name.

Plans may be reviewed at Laredo District office of the Texas Department of Transporation, 1817 Bob Bullock Loop, Laredo, Texas 78043. The contact person is Sergio Reyna at Sergio.reyna@txdot.gov

Questions concerning the specifications, work requirements, etc. of this contract should be directed to Luis Castillo Jr, P.E., Transportation Engineer at luis.castillo@txdot.gov.

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:

LaSalle County
Jimmy Lozano
900 FM 468
Cotulla, Texas 78014
830.563.2326

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:

Will 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. Contractor is to commence mowing along IH 35 tracts when moving into the county for mowing unless directed otherwise by Maintenance Supervisor. 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 time specified.

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 of 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. Locations where mowing equipment will encroach on the roadway pavement, will require traffic control per TCP(3-2)-13 or TCP(3-1)-13 "Mobile Operations". IH 35 inside median where cable is present will require traffic control per TCP (3-2)-13 when any part of mowing equipment is on roadway pavement.

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

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 and around all landscape plantings within the right of way regardless of location. Cracks in concreted areas, where vegetation is rooted out, will be filled with commercial grade epoxy for concrete.

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' 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 of pavement 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 cable barrier fence, Metal Beam Guard Fence (MBGF), concrete traffic barriers, post and cable 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.

GENERAL NOTES

DN: AO	CK: LC	DW: AO	CK: LC	STATE	SHEET NUMBER			SHEET NO.
				TEXAS				
FED.RD. DIV.NO.	STATE DIST.NO.	COUNTY		CONTROL	SECTION	JOB	HIGHWAY NO.	
6	22	LA SALLE		6376	61	001	VARIOUS	

2/1/2021 AOCHOA T:\RDSTMNT\FY 2021\MNT Contracts\Mowing of Highway Right of Way\LaSalle\CAD\GNOTES.dgn

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, post and cable 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.

Divided Highway:

Mow an area approximately 15 feet wide on each side at all ramps on each side of crossing roads within the limits of the highway right-of-way. An area approximately 15 feet wide adjacent to the inside shoulder of the through lanes in locations where the unpaved width of the median exceeds 84 feet, plus the areas for transition and safety mowing. An area approximately 15 feet wide adjacent to the outside shoulder of the through lanes and 15 feet wide adjacent to the inside shoulder of the frontage roads where the outer separations exceed 84 feet, plus the areas for transition and safety mowing.

Mow the entire median area where the width is 84 feet or less. Mow the entire outer separation where the width is 84 feet or less.

Mow an area of 15 feet wide along the outside shoulder of all frontage roads, plus the area for transition and safety mowing.

Undivided Highway:

Mow an area approximately 15 feet wide on each side at all ramps on each side of crossing roads within the limits of the highway right-of-way. An area approximately 15 feet wide adjacent to the inside shoulder of the through lanes in locations where the unpaved width of the median exceeds 84 feet, plus the areas for transition and safety mowing. An area approximately 15 feet wide adjacent to the inside shoulder of the frontage roads where the outer separations exceed 84 feet, plus the areas for transition and safety mowing.

Mow an area of 15 feet wide along the outside shoulder of all frontage roads, plus the area for transition and safety mowing.

When performing Type I mowing (divided and undivided roadway) in front of private dwellings, churches, schools, and developed areas, the contractor will mow the entire right-of-way from the pavement edge to the right-of-way line, plus the areas for transition and safety mowing. The contractor will mow an area 15 feet wide past the ends of all pipes and culverts.

The rate of transition between the designated strip width and other areas is 6:1 parallel to the roadway for every one (1) foot increase or decrease in width.

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".

ITEM 6185 TRUCK MOUNTED ATTENUATOR (TMA) AND TRAILER:

The total number of truck mounted attenuators (TMA) required when utilizing the traffic control standards are shown in the table below.

TCP 3 Series	Scenario	Required TMA
(3-1)-13	AII	2
(3-2)-13	AII	3

The Contractor will be responsible for determining if one or more of these operations will be ongoing at the same time to determine the total number of TMA need for the project for those times per plan requirements. Additional TMAs used that are not specified in the plans in which the Contractor expects compensation will require prior approval from Engineer.

2/1/2021 AOCHOA T:\RDSTMNT\FY 2021\MNT Contracts\Mowing of Highway Right of Way\LaSalle\CAD\GNOTES.dgn

TEXAS DEPARTMENT OF TRANSPORTATION ®

GENERAL NOTES

DN: AO	CK: LC	DN: AO	CK: LC	STATE	SHEET NUMBER			SHEET NO.
				TEXAS				
FED. RD. DIV. NO.	STATE DIST. NO.	COUNTY		CONTROL	SECTION	JOB	HIGHWAY NO.	
6	22	LA SALLE		6376	61	001	VARIOUS	

QUANTITY SHEET

CONTROLLING PROJECT ID 6376-61-001 **DISTRICT** Laredo **COUNTY** Webb
HIGHWAY IH0035

			CONTROL SECTION JOB	**6376-61-001**		TOTAL EST.	TOTAL FINAL
			PROJECT ID	**A00139778**			
			COUNTY	**Webb**			
			HIGHWAY	**IH0035**			
ALT	**BID CODE**	**DESCRIPTION**	**UNIT**	EST.	FINAL		
	730-6001	STRIP MOWING	AC	481.000		481.000	
	730-6002	FULL - WIDTH MOWING	AC	3,015.000		3,015.000	
	730-6054	FULL - WIDTH MOWING - TRACT (1)	AC	1,460.000		1,460.000	
	6185-6005	TMA (MOBILE OPERATION)	DAY	10.000		10.000	

LA SALLE COUNTY MOWING TRACTS

LASALLE COUNTY								EST.	TYPE I - STRIP			TYPE II - FULL WIDTH			TYPE III - MODIFIED FULL WIDTH		
								ROAD SIDE	ITEM 730-6001			ITEM 730-6002			ITEM 730-6054		
HIGHWAY	TRACT NO.	LIMITS	FROM R. M.	TO R. M.	LENGTH (Miles)	CYCLES	FULL MOW FT	MOW FT	STRIP MOWING QTY	STRIP MOWING AC	STRIP MOWING TOTAL	FULL WIDTH MOWING QTY	FULL WIDTH MOWING AC	FULL WIDTH MOWING TOTAL	FULL WIDTH MOWING-TRACT1 QTY	FULL WIDTH MOWING-TRACT1 AC	FULL WIDTH MOWING-TRACT1 TOTAL
IH 35	1	FROM 0.5MI. S OF NUECES RIVER BRIDGE TO FRIO CO. LINE	66	83	16.5	2	190	38	0	150.00	0.00	2	379.89	759.78	0	300.00	0.00
IH 35	2	FROM FM133 TO 0.5 MI. S. OF NUECES RIVER BRIDGE	56	66	10.0	2	189	38	0	90.93	0.00	2	229.34	458.68	0	181.85	0.00
IH 35	3	FROM WEBB CO. LINE TO FM 133	38	56	18.0	2	207	41	0	163.64	0.00	2	450.75	901.49	0	327.27	0.00
SH 44	4	WEBB (WEST) COUNTY LINE TO WEBB (EAST) COUNTY LINE	438	446	7.8	2	81	41	0	28.44	0.00	2	77.12	154.24	0	56.87	0.00
BI 35 B	5	SH 44 IN ENCINAL TO LA SALLE/WEBB COUNTY LINE	594	596	1.8	2	28	14	0	6.22	0.00	2	6.22	12.43	0	6.22	0.00
FM 133	6	IH 35 TO DIMMIT/LA SALLE COUNTY LINE	440	447	6.9	3	114	57	1	25.09	25.09	1	95.38	95.38	1	50.17	50.17
FM 468	7	IH 35 TO LA SALLE/DIMMIT COUNTY LINE	440	450	10.0	3	99	49	1	36.36	36.36	1	119.67	119.67	1	72.73	72.73
FM 469	8	FM 468 TO IH 35 WEST FR	444	460	15.9	3	45	22	1	57.75	57.75	0	86.02	0.00	2	86.02	172.04
FM 469	9	FROM IH 35 S.E. TO LOS ANGELES	460	476	15.9	3	58	29	1	57.93	57.93	0	112.04	0.00	2	112.04	224.08
FM 469	10	FROM LOS ANGELES TO FM 624	476	491	15.6	3	55	28	1	56.76	56.76	0	104.38	0.00	2	104.38	208.76
FM 624	11	SH 97 TO 20.92 MI. SE	446	467	21.7	3	91	46	1	79.05	79.05	1	240.16	240.16	1	158.11	158.11
FM 624	12	FROM 20.92 MI. S.E. OF SH 97 TO MCMULLEN COUNTY LINE	467	482	13.6	3	123	61	1	49.60	49.60	1	202.95	202.95	1	99.20	99.20
FM 3408	13	IH 35 TO ELM CREEK	572	576	3.7	3	96	48	1	13.53	13.53	0	43.28	0.00	2	27.05	54.11
BI 35-C	14	IH 35 N OF COTULLA TO IH 35 S OF COTULLA	641	645	2.9	2	63	31	0	10.55	0.00	2	22.12	44.24	0	21.09	0.00
FM 468	15	IH 35 TO NORTH MAIN STREET	450	452	2.0	2	26	13	0	6.39	0.00	2	6.39	12.77	0	6.39	0.00
SH 97	16	BI 35 C TO INTERSECTION OF FM 624	446	447	1.0	2	54	27	0	3.64	0.00	2	6.54	13.07	0	6.54	0.00
SH 97	17	INTERSECTION OF FM 624 TO SH 72	447	476	29.0	3	73	36	1	105.27	105.27	0	255.56	0.00	2	210.55	421.09
TOTAL					192.4		1592				481			3,015			1,460

NOTES

"MOWERS AHEAD" SIGNS ARE INTENDED FOR USE IN ADVANCE OF MOWING OPERATIONS ON THE RIGHT-OF-WAY.

THE WARNING SIGNS WILL BE ADJUSTED AS THE WORK PROGRESSES TO KEEP WITHIN TWO (2) MILES OR LESS FROM THE WORK AREA.

TYPE I MOWING TO BE (15) FIFTEEN FEET WIDE FOR ALL UNDIVIDED ROADWAYS.

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.

MOWING IS NOT ALLOWED DURING THE WILDFLOWER BLOOMING/GROWING SEASON.

FULL WIDTH MOWING TRACT 1 REPRESENTS A MODIFIED 30 FOOT WIDTH MOWING STRIP ALONG THE EDGE OF THE PAVEMENT, OR WHERE VEGETATION COMMENCES.

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.

MOWING FOR SIGHT DISTANCE PER STANDARD REQUIRED. CONSIDER WORK SUBSIDIARY TO PERTINENT BID ITEMS.

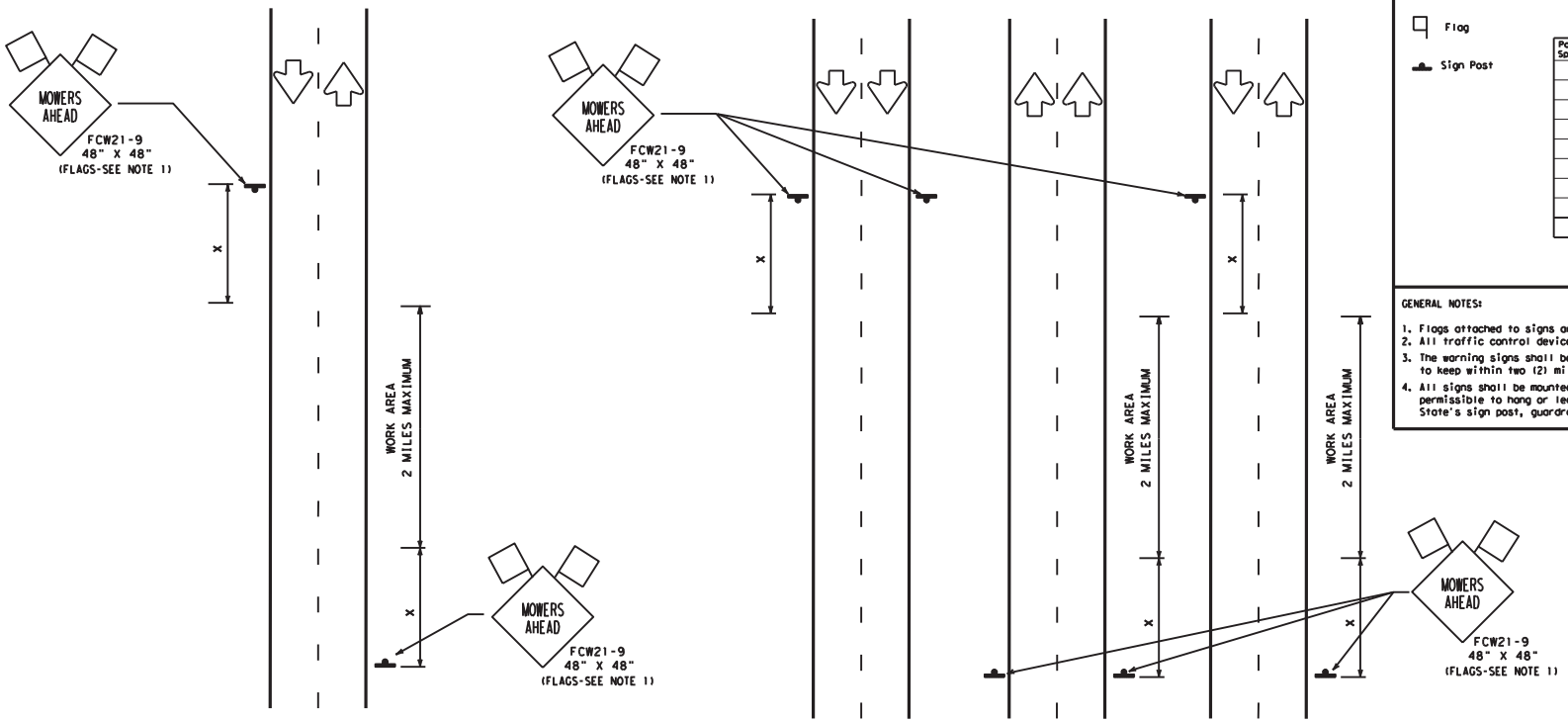
TEXAS DEPARTMENT OF TRANSPORTATION®

SUMMARY OF TRACTS & QUANTIES

DN: AO	CK: LC	DW: AO	CK: LC	STATE: TEXAS	SHEET NUMBER	SHEET NO.

FED. RD. DIV. NO.	STATE DIST. NO.	COUNTY	CONTROL	SECTION	JOB	HIGHWAY NO.
6	22	LA SALLE	6376	61	001	VARIOUS

2/1/2021 AOCHOA T:\RDSTMNT\FY 2021\MNT Contracts\Mowing of Highway Right of Way\LaSalle\CAD\SUMTRACT.dgn



TCP (LRD-MWGa)

Two-Lane Highway

TCP (LRD-MWGb)

Multi-Lane Divided Highway

LEGEND

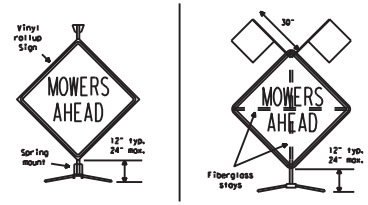
Flag

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.



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

TEXAS DEPARTMENT OF TRANSPORTATION ®

TRAFFIC CONTROL PLAN
MOWING RIGHT-OF-WAY

DN: AO	CK: LC	STATE	SHEET NUMBER	SHEET NO.
		TEXAS		

FED. RD. DIV. NO.	STATE DIST. NO.	COUNTY	CONTROL	SECTION	JOB	HIGHWAY NO.
6	22	LA SALLE	6376	61	001	VARIOUS

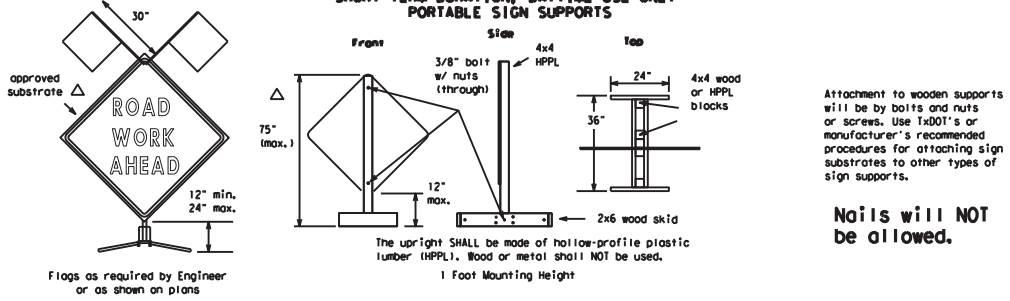
LEVELS DISPLAYED

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

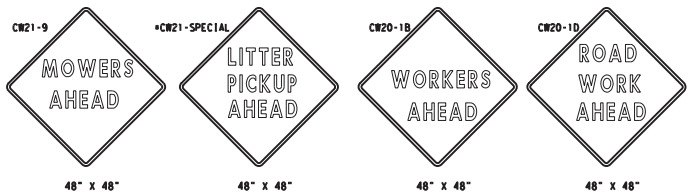
△ See the CWZTCD for the type of sign substrate that can be used for each approved sign support.

SHORT TERM DURATION, DAYTIME USE ONLY PORTABLE SIGN SUPPORTS



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

Nails will NOT be allowed.



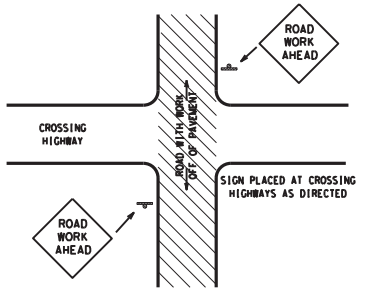
SIGN IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS

MOWERS AHEAD SIGNS ARE USED FOR MOWING OPERATIONS.

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

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

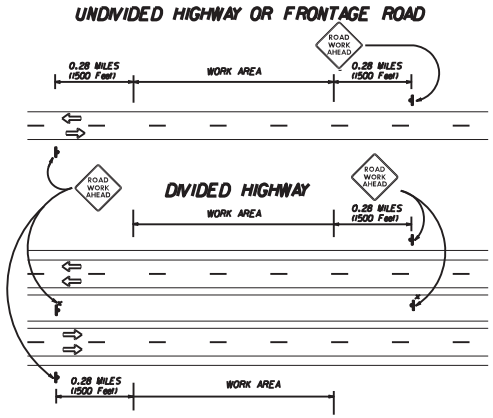
*Letter dimensions and spacing for "CW21-SPECIAL" is the same as C20-1D>



TYPICAL LOCATION OF SIGNS AT HIGHWAY CROSSING

WORK AREA IS A MAXIMUM OF 2.0 MILES UNLESS OTHERWISE DIRECTED.
SIGNS MAY REMAIN IN PLACE ONLY DURING DAYLIGHT HOURS.
SIGNS ARE TO BE PLACED 6' TO 12' OFF OF THE PAVED SURFACE UNLESS OTHERWISE DIRECTED.
ROAD WORK AHEAD SIGNS SHOWN AS EXAMPLES. ONE OF THE FOUR TYPE SIGNS WILL BE USED AS DIRECTED.

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



TRAFFIC CONTROL PLAN FOR WORK OFF OF THE PAVED SURFACE.

GENERAL NOTES FOR WORK ZONE SIGNS

1. Contractor shall install and maintain signs in a straight and plumb condition and/or as directed by the Engineer.
2. Wooden sign posts shall be painted white.
3. Barricades shall NOT be used as sign supports.
4. Nails shall NOT be used to attach signs to any support.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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".
10. 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)

1. 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.
2. The Contractor shall furnish the sign sizes shown on this sheet or as directed by the Engineer.

SIGN SUBSTRATES

1. 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.
2. "Mesh" type materials are NOT an approved sign substrate.
3. 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

1. 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/colmates/@Generic__CollectionView;cs=default;ts=default
2. White sheeting, meeting the requirements of DMS-8300 Type C (High Specific Intensity), shall be used for signs with white background and channelizing devices.
3. Orange sheeting, meeting the requirements of DMS-8300 Type E (Fluorescent Prismatic), shall be used for signs with orange backgrounds.

SIGN LETTERS

1. 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

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

SIGN SUPPORT WEIGHTS

1. Where sign supports require the use of weights to keep from turning over, the use of sandbags with dry cohesionless sand is recommended.
2. The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight.
3. Rock, concrete, iron, steel or other solid objects will not be permitted for use as sign support weights.
4. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs.
5. Sandbags shall be made of a durable material that tears upon vehicular impact.
6. Rubber (such as tire inner tubes) shall NOT be used for sandbags.
7. Rubber ballasts (such as those used with cones or edgeline channelizers) shall NOT be used as sign support weights.
8. 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.
9. 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.

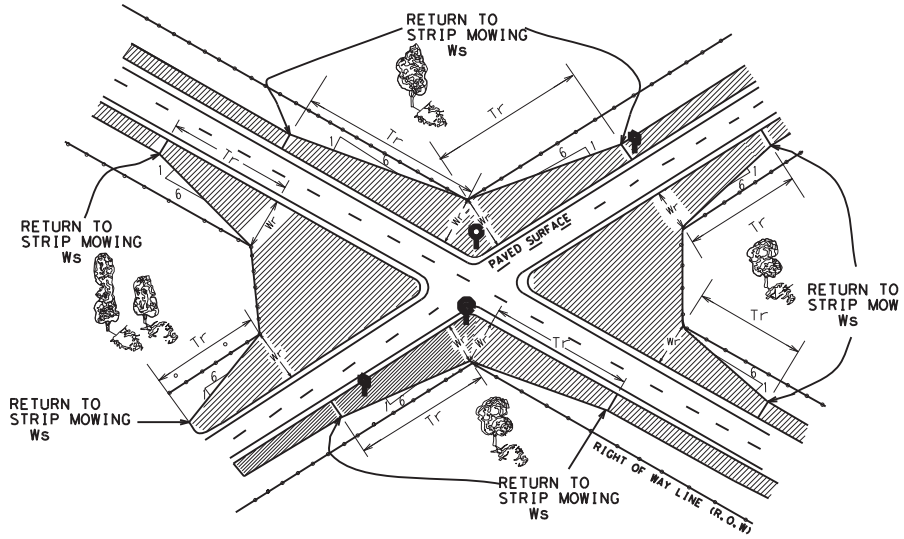
Texas Department of Transportation
Maintenance Division
Standard Plans

ROADSIDE TRAFFIC CONTROL PLAN

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

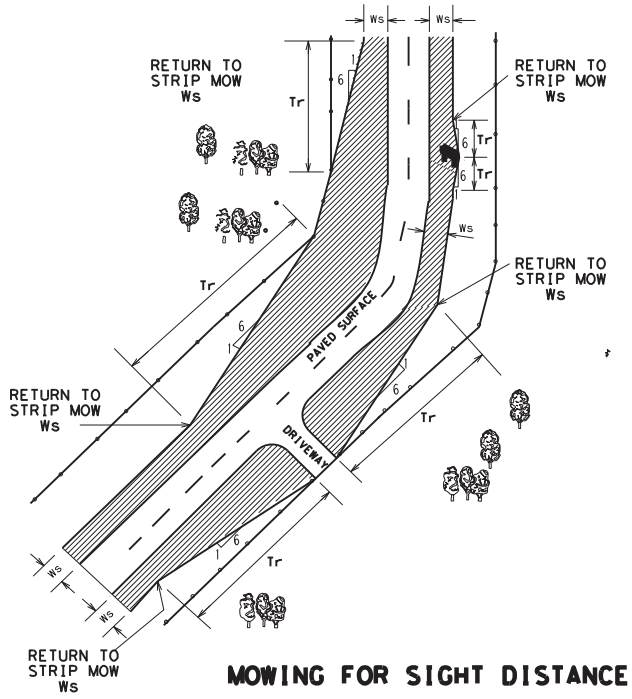
FILE:	DN:	CK:	DW:	CK:	MEG NO.:
RSTCP05.DGN	VB	CS	-	-	

REVISED:	STATE DISTRICT	FEDERAL REGION	MAINTENANCE PROJECT NO.	HIGHWAY
September 17, 2004	22	6	RMC 637661001	IH 35,EIC
REVISED: February 2, 2005 Sign placement in TCP	COUNTY	CONTROL	SECTION	JOB	SHEET
REVISED:	LA SALLE	6376	61	001	



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.

RIGHT OF WAY LINE

MOWING LOCATION

Wr - R.O.W. WIDTH (AT START OF TRANSITION)

Ws - STRIP MOWING WIDTH

Tr - TRANSITION

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	

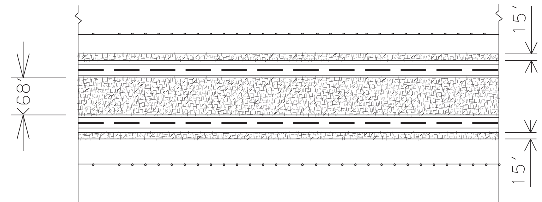
Texas Department of Transportation

Maintenance Division
Standard Plans

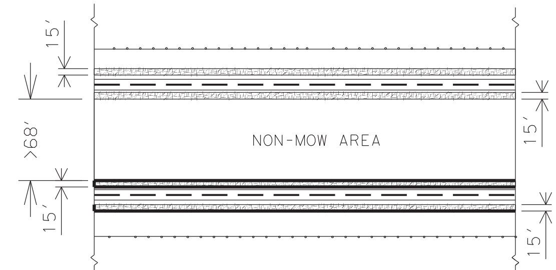
STRIP MOWING NON-DIVIDED HIGHWAYS

SHEET 1 OF 1 — STRIP-MOW-ND-04 — NOT TO SCALE

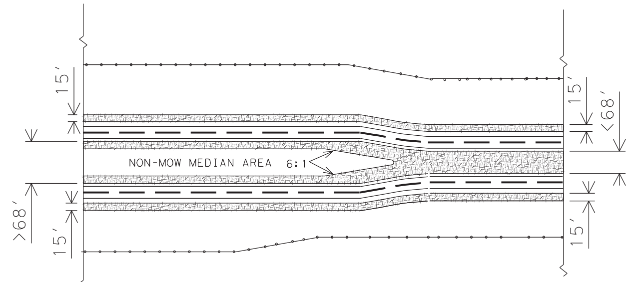
FILE: SMOWND04.DGN	DN: VB	CK: CS	DW: -	CK: -	NEG NO.:	
		STATE DISTRICT	FEDERAL REGION	MAINTENANCE PROJECT NO.		HIGHWAY
REVISED: 5/18/2004		22	6	RMC 637661001		IH 35,ETC.
REVISED:		COUNTY		CONTROL	SECTION	JOB	SHEET
REVISED:		LA SALLE		6376	61	001	



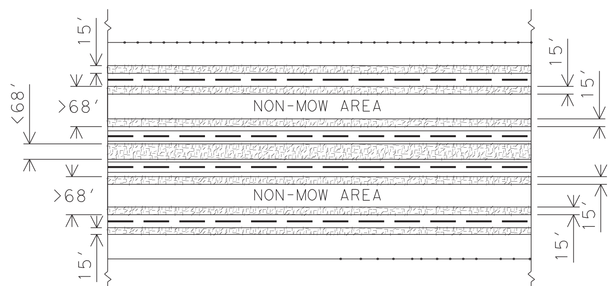
I. STRIP MOW DIVIDED HIGHWAY WITHOUT FRONTAGE ROADS (MEDIAN <68')



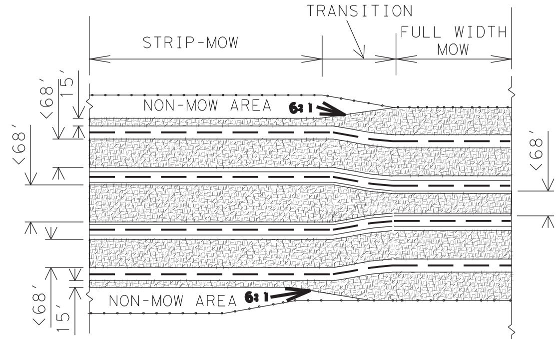
II. STRIP MOW DIVIDED HIGHWAY WITHOUT FRONTAGE ROADS (MEDIAN >68')



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:

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.

KEY

MOW AREA

PAVED ROADWAY

RIGHT-OF-WAY LINE

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	

Texas Department of Transportation

Maintenance Division
Standard Plans

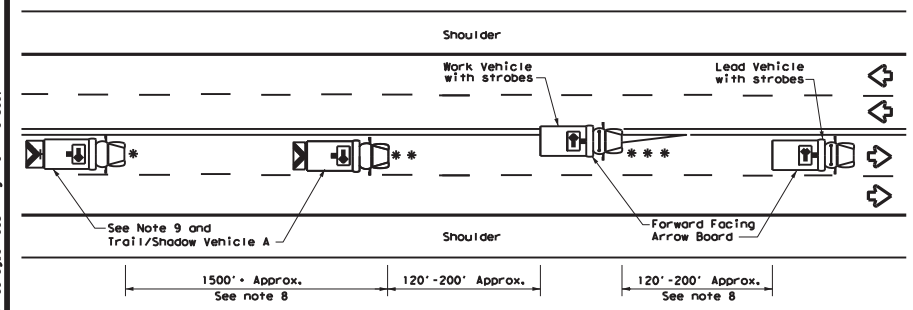
STRIP MOWING (DIVIDED HIGHWAYS)

STRIP-MOW-D-04

SHEET 1 OF 1 NOT TO SCALE

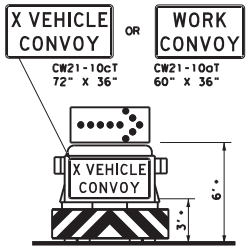
FILE: SMOWD04.DGN	DN: VB	CK: CS	DW: -	CK: -	NEG NO.:
©TxDOT JUNE 2004	STATE DISTRICT	FEDERAL REGION	FEDERAL AID PROJECT		HIGHWAY
REVISED: 6/03/2004	22	6	RMC 637661001		IH 35, ETC.
REVISED:	COUNTY		CONTROL	SECTION / JOB	SHEET
REVISED:	LA SALLE		6376	61 / 001	

DATE: 2/1/2021 2:06:40 PM
FILE: T:\RODSTMAT\FY 2021\MAT Contracts\Moving of Highway Right of Way\Logos\TxDOT Logo.dgn



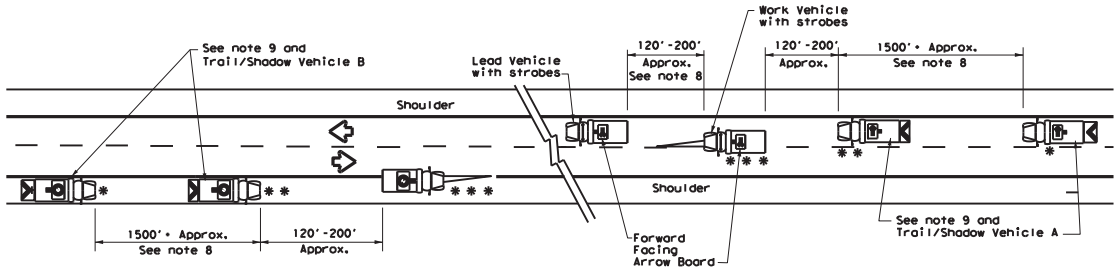
TCP (3-1a)

UNDIVIDED MULTILANE ROADWAY



TRAIL/SHADOW VEHICLE A

with RIGHT Directional display Flashing Arrow Board

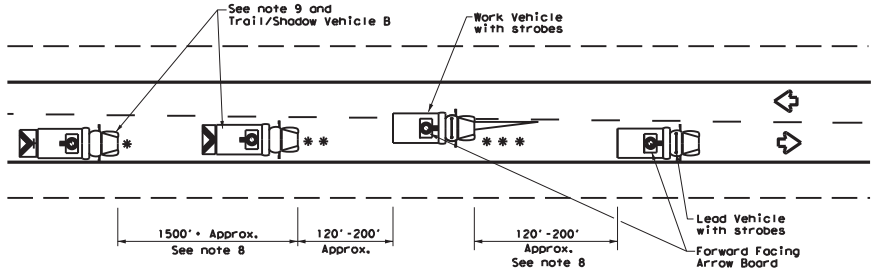


WORK ON SHOULDER

WORK ON TRAVEL LANE

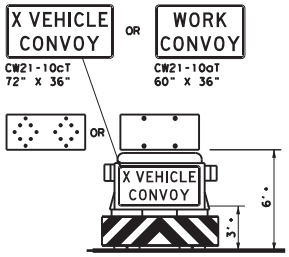
TCP (3-1b)

TWO-WAY ROADWAY WITH PAVED SHOULDERS



TCP (3-1c)

TWO-WAY ROADWAY WITHOUT PAVED SHOULDERS



TRAIL/SHADOW VEHICLE B

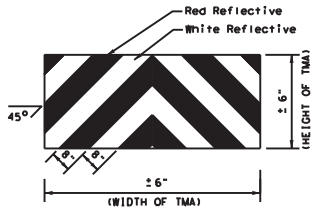
with Flashing Arrow Board in CAUTION display

LEGEND			
*	Trail Vehicle	ARROW BOARD DISPLAY	
**	Shadow Vehicle		
***	Work Vehicle		RIGHT Directional
	Heavy Work Vehicle		LEFT Directional
	Truck Mounted Attenuator (TMA)		Double Arrow
	Traffic Flow		CAUTION (Alternating Diamond or 4 Corner Flash)

TYPICAL USAGE				
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
✓				

GENERAL NOTES

1. TRAIL, SHADOW, and LEAD vehicles shall be equipped with arrow boards as illustrated. When a LEAD vehicle is not used the WORK vehicle must be equipped with an arrow board. The Engineer will determine if the LEAD VEHICLE and/or TRAIL VEHICLE are required based on prevailing roadway conditions, traffic volume, and sight distance restrictions.
2. The use of amber high intensity rotating, flashing, oscillating, or strobe lights on vehicles are required. Blue high intensity rotating, flashing, oscillating or strobe lights when mounted on the driver's side of the vehicle may be operated simultaneously with the amber beacons or strobe lights.
3. The use of truck mounted attenuators (TMA) on the SHADOW VEHICLE and TRAIL VEHICLE are required.
4. Reflective sheeting on the rear of the TMA shall meet or exceed the reflectivity and color requirements of DEPARTMENTAL MATERIAL SPECIFICATION DMS 8300, Type A.
5. Flashing arrow boards shall be Type B or Type C as per the Barricade and Construction (BC) standards. The board shall be controlled from inside the vehicle.
6. Each vehicle shall have two-way radio communication capability.
7. When work convoys must change lanes, the TRAIL VEHICLE should change lanes first to shadow the other convoy vehicles.
8. Vehicle spacing between the TRAIL VEHICLE and the SHADOW VEHICLE will vary depending on sight distance restrictions. Motorists approaching the work convoy should be able to see the TRAIL VEHICLE in time to slow down and/or change lanes as they approach the TRAIL VEHICLE. Vehicle spacing between the WORK VEHICLE and SHADOW VEHICLE and vehicle spacing between WORK VEHICLE and LEAD VEHICLE may vary according to terrain, work activity and other factors.
9. "X VEHICLE CONVOY" (CW21-10cT) or "WORK CONVOY" (CW21-10aT) signs shall be used on TRAIL VEHICLES and SHADOW VEHICLES as shown. As an option 48" X 48" diamond shaped "WORK CONVOY"(CW21-10T) or "X VEHICLE CONVOY" (CW21-10bT) signs may be used where adequate mounting space exists. When used, the X VEHICLE CONVOY sign shall have the number of the convoy vehicles displayed on the sign in the number designation "X" location. The "X VEHICLE CONVOY" sign shall not be used on the SHADOW VEHICLE if a TRAIL VEHICLE is used.
10. On two-lane two-way roadways, the work and protection vehicles should pull over periodically to allow motor vehicle traffic to pass. If motorists are not allowed to pass the work convoy, a "DO NOT PASS" (R4-1) sign should be placed on the back of the rearmost protection vehicle.



STRIPING FOR TMA

Texas Department of Transportation

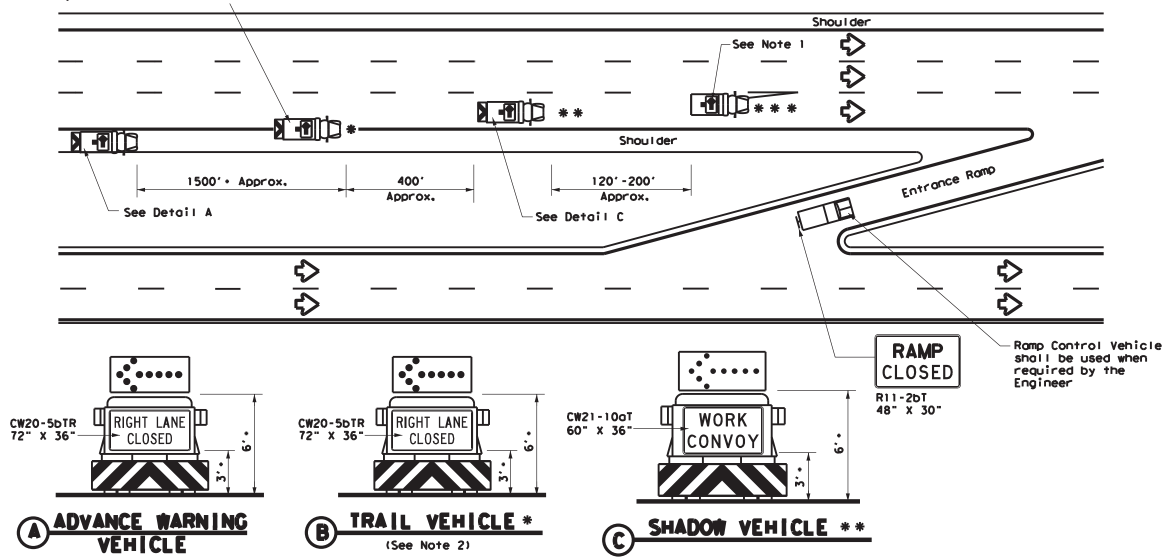
Traffic Operations Division Standard

TRAFFIC CONTROL PLAN MOBILE OPERATIONS UNDIVIDED HIGHWAYS

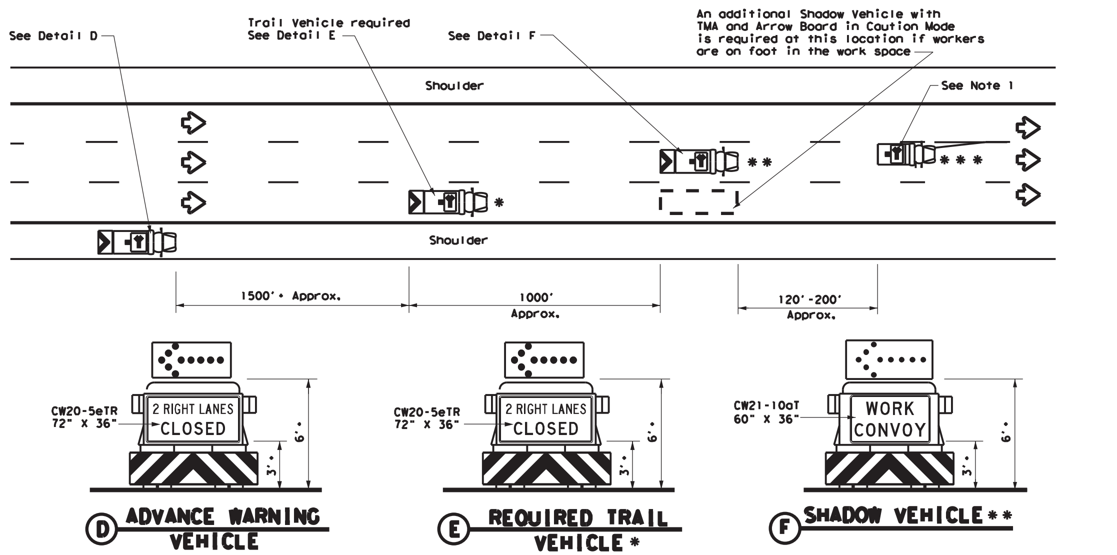
TCP(3-1)-13

FILE: tcp3-1.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT December 1985	CONT	SECT	JOB	HIGHWAY
REVISIONS 2-94 4-98 8-95 7-13 1-97	6376	61	001	IH35, ETC
	DIST	COUNTY		SHEET NO.
	22	LA SALLE		

DATE: 2/1/2021 2:06:43 PM
FILE: T:\LRDDSTMNT\FY 2021\MNT Contracts\Mowing of Highway Right of Way\



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



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

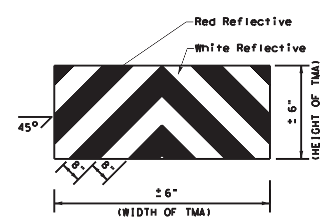
LEGEND

Symbol	Description	Symbol	ARROW BOARD DISPLAY
*	Trail Vehicle		
**	Shadow Vehicle		
***	Work Vehicle		RIGHT Directional
	Heavy Work Vehicle		LEFT Directional
	Truck Mounted Attenuator (TMA)		Double Arrow
	Traffic Flow		CAUTION (Alternating Diamond or 4 Corner Flash)

TYPICAL USAGE				
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
✓				

GENERAL NOTES

1. ADVANCE WARNING, TRAIL and SHADOW vehicles shall be equipped with Type B or Type C flashing arrow boards as per the Barricade and Construction (BC) standards. Arrow boards on WORK vehicles will be optional based on the type of work being performed. The arrow boards shall be operated from inside the vehicle.
2. For TCP(3-2a) the Engineer will determine if the TRAIL VEHICLE is required based on prevailing roadway conditions, traffic volume, and sight distance restrictions. All other vehicles shown for both TCP(3-2a) and TCP(3-2b) are required.
3. The use of amber high intensity rotating, flashing, oscillating, or strobe lights on vehicles are required. Blue high intensity rotating, flashing, oscillating or strobe lights when mounted on the driver's side of the vehicle may be operated simultaneously with the amber beacons or strobe lights.
4. The use of truck mounted attenuators (TMA) on the ADVANCE WARNING, SHADOW, and TRAIL vehicles are required.
5. Reflective sheeting on the rear of the TMA shall meet or exceed the reflectivity and color requirements of DMS 8300, Type A.
6. Each vehicle shall have two-way radio communication capability.
7. When work convoys must change lanes, the TRAIL VEHICLE should change lanes first to shadow the other convoy vehicles.
8. Vehicle spacing between the TRAIL VEHICLE and the SHADOW VEHICLE will vary depending on sight distance restrictions. Motorists approaching the work convoy should be able to see the TRAIL VEHICLE in time to slow down and/or change lanes as they approach the TRAIL VEHICLE. Vehicle spacing between the WORK VEHICLE and SHADOW VEHICLE may vary according to terrain, work activity and other factors.
9. Standard 48" X 48" diamond shaped warning signs with the same message as those shown may be used where adequate mounting space exists.
10. The signs shown should be used on the Advance Warning Vehicle. As an option, a portable changeable message sign (PCMS) or a truck mounted changeable message sign (TMCMS) with a minimum character height of 12", and displaying the same legend may be substituted for these signs. An appropriate directional arrow display, simulating the size and legibility of the flashing arrow board, must be used in the second phase of the PCMS/TMCMS message. When this is done, the arrow board will not be required on the Advance Warning Vehicle.
11. Standard diamond shape versions of the CW20-5 series signs may be used as an option if the rectangular signs shown are not available.
12. The principles on this sheet may be used to close lanes from the left side of the roadway considering the number of lanes, shoulder width, sight distance, and ramp frequency.
13. Signs and flashing arrow board modes shall be appropriately altered when implementing left lane closures or interior closures which close the left lanes.
14. The Advance Warning Vehicle may straddle the edgeline when shoulder width makes it necessary.



STRIPING FOR TMA

Texas Department of Transportation

Traffic Operations Division Standard

TRAFFIC CONTROL PLAN MOBILE OPERATIONS DIVIDED HIGHWAYS

TCP(3-2)-13

FILE: tcp3-2.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT December 1985	CONT	SECT	JOB	HIGHWAY
REVISIONS 2-94 4-98 8-95 7-13 1-97	6376	61	001	IH35,ETC
	DIST	COUNTY		SHEET NO.
	22	LA SALLE		

176