ORGANIZATION OF PLAN SHEETS

STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION

DESIGN	FED.RD. DIV.NO.	MAINTENANCE PROJECT NO.			SHEET NO.
GRAPHICS	6	RMC 6386-41-001			1
CHECKED	STATE	STATE DIST.NO.	COUNTY		
CHECKED	TEXAS	CRP	KARNES		
	CONT.	SECT.	JOB	HIGHWAY NO.	
	6386	41	001	US181, ETC	

AREA OF DISTURBED SOIL = 0.00 ACRES

PLANS OF PROPOSED
HIGHWAY ROUTINE MAINTENANCE
MAINTENANCE PROJECT NO. RMC 6386-41-001

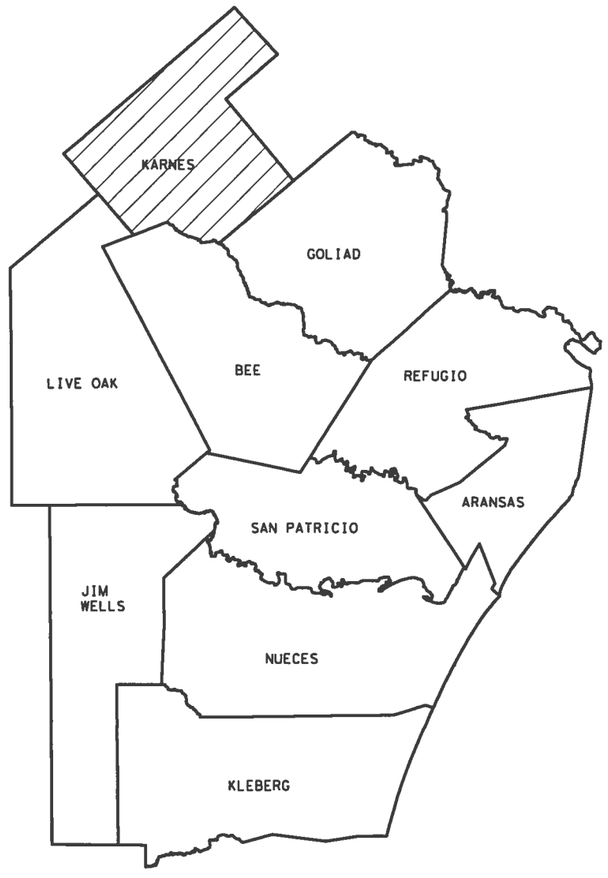
COUNTY: KARNES

US 181, ETC

LIMITS: FROM: VARIOUS LOCATIONS
TO:

NET LENGTH OF PROJECT: 273.622 MI.

WORK CONSISTING OF MOWING HIGHWAY RIGHT OF WAY



KARNES AREA OFFICE (6386-41-001)		
Nicholas Novosad, P.E.	AREA ENGINEER	830-780-3993
	AREA OFFICE INSPECTOR	
	AREA OFFICE INSPECTOR	
	AREA OFFICE RECORDKEEPER	
KARNES MAINTENANCE (KARNES COUNTY)		
KEVIN BUTLER	MAINTENANCE SUPERVISOR	830-780-3132
	MAINTENANCE INSPECTOR	
	MAINTENANCE INSPECTOR	

STATE OF TEXAS
AURORA G. RODRIGUEZ
132079
LICENSED PROFESSIONAL ENGINEER

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE WITH AN (*) HAVE BEEN ISSUED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AND ARE APPLICABLE TO THIS PROJECT.

DocuSigned by: Aurora Rodriguez, P.E. 6/29/2021
AC1F68228F074FA... DATE

EQUATIONS: N/A
EXCEPTIONS: N/A
RAILROAD CROSSING: N/A

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

SUBMITTED FOR LETTING: 6/29/2021
DocuSigned by: Armando Bosquez
B8B23CC... BRIDGE ENGINEER

APPROVED FOR LETTING: 6/30/2021
DocuSigned by: James D. Harris
E2... DIRECTOR OF MAINTENANCE

DATE: $DATE$
FILE: $FILE$

GENERAL NOTES:

This contract shall commence upon the issuance of a Work Order by the Director of Maintenance, or his representative, and shall continue for 365 calendar days with a 365 calendar day renewal option in accordance with Special Provision 004--001 "Scope of Work".

The contractor is to visit the site(s), make his/her own examination of the site(s) where work is to be performed. The contractor shall carefully examine these specifications and secure from the state additional information that may be essential for a clear and full understanding of the work.

All work will be scheduled and directed by the following named Department Maintenance Supervisors:

Karnes County: Kevin Butler Kevin.Butler@txdot.gov (Monday – Thursday)
800 S 181, Karnes City, TX 78118

The Contractor shall contact the following named Area Engineer to determine priority work areas and adjust work schedule accordingly:

Nicholas Novosad, P.E., Karnes Area Engineer Nick.Novosad@txdot.gov

The Contractor's attention is brought to the fact that each contract is separate. Work orders for each of the mowing contracts district wide will be issued at the same time. In the event the Contractor is awarded multiple contracts, they shall be sufficiently staffed to concurrently pursue required mowing operations on all contracts they may have been awarded.

ITEM 2

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

Nicholas Novosad, P.E., Nick.Novosad@txdot.gov

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

All pre-bid questions will be reviewed by the Area Engineer or Assistant 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-LettingResponses/

All pre-bid 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.

It is recommended that prospective bidders examine the specified work locations with the Engineer to view the nature of the work, the need for close coordination with the various utilities, the traffic control considerations, and other factors influencing the prosecution of the work.

ITEM 7

For each working day that any work remains incomplete after the expiration of the allowed working days in the work order, the amount per day given in Special Provision 000--658 "Schedule of Liquidated Damages" will be deducted from the money due the contractor, not as a penalty, but as liquidated damages.

ITEM 8

The Contractor will be given written notice to begin a mowing cycle. In this notice, the Contractor will be given the tracts to be mowed, the number of working days (as defined in Section 8.3.1.4., "Standard Workweek", in the 2014 Texas Standard Specifications) allowed to complete the mowing cycle, and the date when time charges for the mowing cycle will begin.

ITEM 500

If the Contractor is asked to relocate to another work location due to localized inclement weather or any other reason, the start location will be minimized to within a 10 mile radius of the current work location. This move will not be paid for as a separate mobilization, but shall be subsidiary to pertinent Items. If the start location is beyond the 10 mile radius, a separate mobilization will be paid to the Contractor.

ITEM 502

For this contract, Mowers Ahead sign (CW21-9T) shall be used as per the Texas Manual on Uniform Traffic Control Devices and the plans. Each sign shall have two (2) safety flags attached to it at all times.

All signs must be mounted on their own stands. It will not be permissible to hang or lean these signs on or against the State's sign posts, guardrail, bridge rail, etc.

All signs shall be placed as shown on RS-TCP-05 and at two (2) mile increments, unless approved by the Engineer.

When work is being done on a multi-lane divided highway, signs on both sides of the highway and in the center median facing each direction of traffic shall be required.

All signs shall be erected in such a manner that they will not obstruct the traveling public's view of the normal roadway signing. Signs, stands and safety flags will not be furnished by TxDOT.

Channelizing devices will not be required.

Traffic control will not be paid for directly but shall be considered subsidiary to pertinent Items.

ITEM 730

The Contractor shall have in operation at all times, no less than five (5) 15-ft batwing rotary mowers, unless otherwise approved by the Engineer.

The Contractor shall have 8-ft shredders available to mow areas that would be inaccessible to batwing mowers, such as in medians where cable barrier is present.

The Contractor shall have 48-inch zero-turn mowers available to mow any tighter areas within the ROW that may be inaccessible to the above mentioned equipment.

The Contractor shall have hand-held weed eaters and trimmers, or any other necessary equipment, available to perform hand trimming around any remaining areas within the ROW, or as directed by the Engineer. The Contractor shall limit mowed areas to a length that can be hand trimmed within one working day of being mowed.

Mowers shall be adjusted for a cutting height of seven (7) inches. When directed to perform hand trimming, grass shall be cut to a height of approximately seven (7) inches.

The Contractor shall be held responsible for any damage caused by their operations within the right of way, and shall repair damages at their expense in accordance with Item 7.17.

Full-width mowing shall be performed for the entire right of way from ROW line to ROW line, except for designated non-mow areas.

Spot mowing shall be performed only for areas identified and requested by the Engineer.

The State reserves the right to pay for partial cycles when it is determined that certain roadways, or portions thereof, may not require mowing.

ITEM 734

Payment for mowing and Litter Removal shall be paid in full when all litter removal has been completed to the satisfaction of the maintenance supervisor or their representative.

ESTIMATE SUMMARY

								RMC 6386-41-001 ROADWAY		ALT	ITEM-CODE			DESCRIPTION	UNIT	TOTAL	
EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL		ITEM NO	DESC CODE	SP NO			EST.	FINAL
								3.00			0500	6033		MOBILIZATION (CALLOUT)	EA	3.00	
								8,871.00			0730	6002		FULL-WIDTH MOWING	AC	8,871.00	
								100.00			0730	6003		SPOT MOWING	AC	100.00	
								2,760.00			0734	6001		LITTER REMOVAL	AC	2,760.00	
														TOTAL			

$TIME$

DATE: $DATE$
FILE: $FILE$

ESTIMATE & QUANTITY SHEET

STATE DIST. NO.	COUNTY	PROJECT NO.	SHEET NO.
16	KARNES	RMC 6386-41-001	4

PROJECT LIMITS AND ESTIMATED QUANTITIES - KARNES MAINTENANCE

TRACT NO.	HWY	LIMITS		FROM		TO		FROM	TO	LENGTH	ITEM 730-6002 FULL-WIDTH MOWING				ITEM 734-6001 LITTER REMOVAL		
		FROM	TO	RM	DISP	RM	DISP	DFO	DFO	(MI)	NO. OF CYCLES	ACRES PER CYCLE	TOTAL ACRES	DAYS PER CYCLE	NO. OF CYCLES	ACRES PER CYCLE	TOTAL ACRES
1	BS0072B	620' W. OF CR 329	SH 72	532	0.773	532	1.031	0.838	1.096	0.258	3	2	6	0.5	0	0	0
2	BU0181E	1,275' S. OF BU 181 D	US 181	552	-0.520	552	0.595	0.269	1.383	1.114	3	22	66	0.5	0	0	0
3	BU0181G	FM 2509	US 181	544	0.077	544	0.405	2.252	2.631	0.379	3	9	27	0.5	0	0	0
4	FM0081	SH 123	SH 80	534	0.948	540	1.020	10.873	16.993	6.120	3	69	207	0.5	0	0	0
5	FM0081	SH 80	FM 2773	540	1.020	548	1.365	16.993	25.352	8.359	3	71	213	1.0	0	0	0
6	FM0081	FM 1145	SH 123	524	-0.038	534	0.784	0.000	10.709	10.709	3	88	264	1.0	0	0	0
7	FM0099	US 181	ATASCOSA C/L	536	0.674	552	0.000	0.710	14.386	13.676	3	156	468	1.5	0	0	0
8	FM0626	FM 99	SH 72	538	-0.026	548	0.590	0.000	11.444	11.444	3	93	279	1.0	0	0	0
9	FM0627	FM 2724	SH 80	526	-1.920	528	0.510	0.000	4.520	4.520	3	43	129	0.5	0	0	0
10	FM0627	SH 80	FM 81	528	0.510	540	1.219	4.520	16.969	12.449	3	117	351	1.0	0	0	0
11	FM0743	1,693' S. OF BS 72 B	US 181	540	0.811	556	1.224	0.868	17.221	16.353	3	134	402	1.0	0	0	0
12	FM0791	ATASCOSA C/L	2,935' E. OF FM 887	522	0.000	534	0.440	31.011	43.319	12.308	3	94	282	1.0	0	0	0
13	FM0792	SH 80	FM 719	532	-0.110	538	1.744	0.001	7.682	7.681	3	110	330	1.0	0	0	0
14	FM0887	SS 190	SH 123	518	-0.009	530	0.742	0.000	12.730	12.730	3	103	309	1.0	0	0	0
15	FM0887	SH 123	FM 791	530	0.742	540	1.156	12.730	21.596	8.866	3	70	210	0.5	0	0	0
16	FM1144	FM 99	US 181	520	-0.017	534	1.070	0.000	15.040	15.040	3	156	468	1.5	0	0	0
17	FM1145	SH 72	US 181	530	-0.027	530	0.745	0.000	0.772	0.772	3	7	21	0.5	0	0	0
18	FM1344	WILSON C/L	FM 791	538	0.000	540	0.167	14.452	16.534	2.082	3	25	75	0.5	0	0	0
19	FM1353	US 181	FM 2102	536	0.548	540	2.006	0.580	6.001	5.421	3	58	174	0.5	0	0	0
20	FM1354	SH 80	CR 312	534	-0.023	536	0.525	0.000	2.495	2.495	3	29	87	0.5	0	0	0
21	FM2102	FM 99	SH 72	516	-0.038	530	0.891	0.000	14.958	14.958	3	155	465	1.5	0	0	0
22	FM2443	FM 743	SH 239	544	-0.024	546	1.127	0.004	3.117	3.113	3	32	96	0.5	0	0	0
23	FM2509	BU 181 G	US 181	544	-1.972	546	1.666	0.000	5.657	5.657	3	53	159	0.5	0	0	0
24	FM2724	FM 887	FM 81	524	-0.028	532	0.026	0.000	8.057	8.057	3	103	309	1.0	0	0	0
25	FM2773	FM 81	CR 320	534	-0.022	536	0.771	0.002	2.768	2.766	3	37	111	0.5	0	0	0
26	FM3191	FM 887	SH 123	524	-0.043	526	1.218	0.000	3.198	3.198	3	25	75	0.5	0	0	0
27	SH0072	BEE C/L	2,517' E. OF FM 1145	534	0.000	544	1.626	59.622	71.158	11.536	3	128	384	1.0	3	128	384
28	SH0072	356' W. OF CR 329	SH 239	548	-0.242	548	0.937	73.094	74.273	1.179	3	9	27	0.5	3	9	27
29	SH0080	WILSON C/L	FM 81	526	0.000	544	0.614	61.223	79.751	18.528	3	246	738	2.0	3	246	738
30	SH0080	FM 81	FM 792	544	0.614	544	1.970	79.751	81.107	1.356	3	25	75	0.5	3	25	75
31	SH0080	FM 792	1,550' N. OF SH 123	544	1.970	550	0.572	81.107	85.830	4.723	3	70	210	0.5	3	70	210
32	SH0119	WILSON C/L	DEWITT C/L	524	0.860	536	1.312	10.889	22.277	11.388	3	173	519	1.5	0	0	0
33	SH0123	WILSON C/L	SH 80	526	0.000	538	0.590	56.509	69.097	12.588	3	132	396	1.0	3	132	396
34	SS01190	SH 80	CR 277	536	-0.029	536	0.312	0.000	0.341	0.341	3	3	9	0.5	0	0	0
35	US0181	WILSON C/L	FM 887 S. CONNECTION	544	0.426	546	-0.777	32.302	33.075	0.773	3	12	36	0.5	3	12	36
36	US0181	N. END SAN ANTONIO RIVER	872' S. OF FM 1144	546	0.517	556	-0.604	34.369	43.313	8.944	3	100	300	1.0	3	100	300
37	US0181	1,000' S. OF SH 80	986' N. OF CR 368	558	-0.738	560	-0.434	45.132	47.400	2.268	3	27	81	0.5	3	27	81
38	US0181	1,885' S. OF FM 1145	BEE C/L	562	0.331	572	0.416	50.187	59.660	9.473	3	171	513	1.5	3	171	513
									TOTALS	273.622	-	2,957	8,871	31.5	-	920	2,760

PROJECT SUMMARY

Texas Department of Transportation

SHEET 1 OF 1

CONT	SECT	JOB	HIGHWAY
6386	41	001	US181, ETC
DIST	COUNTY		SHEET NO.
CRP	KARNES		5

DATE: $DATE$
FILE: $FILE$

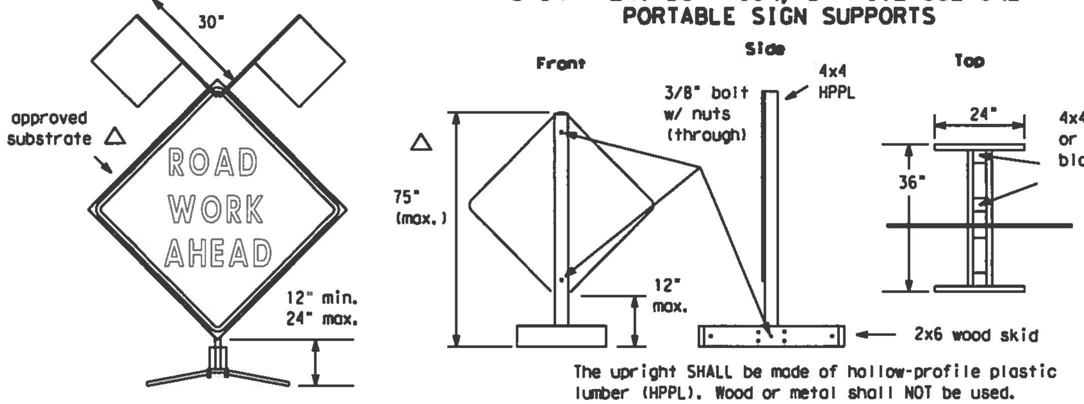
DISCLAIMER
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

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.

SHORT TERM DURATION, DAYTIME USE ONLY PORTABLE SIGN SUPPORTS



Flags as required by Engineer or as shown on plans

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

1 Foot Mounting Height

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

Nails will NOT be allowed.

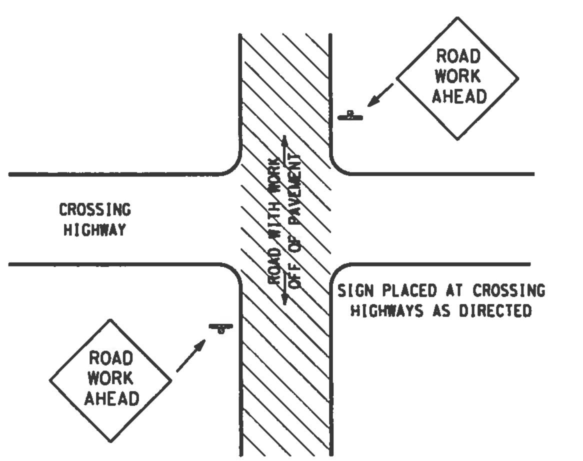
SIGN IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS

MOWERS AHEAD SIGNS ARE USED FOR MOWING OPERATIONS.

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

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

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



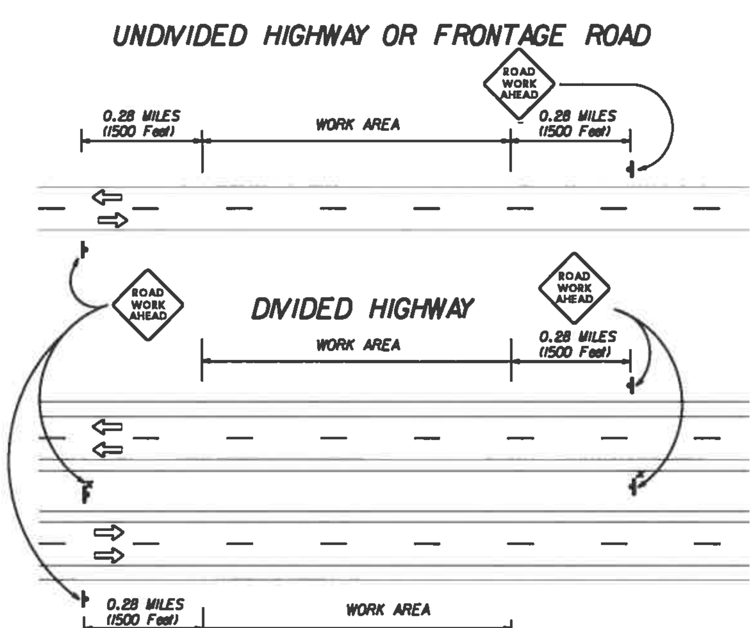
TYPICAL LOCATION OF SIGNS AT HIGHWAY CROSSING

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

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

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

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



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:
   http://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: RSTCP05.DGN	DN: LJB	CK: JG	DW: -	CK: -	NEG NO.:
©TxDOT FEBRUARY 2005	STATE DISTRICT	FEDERAL REGION	FEDERAL AID PROJECT		SHEET
REVISED: September 17, 2004	CRP	16	RMC-6386-41-001		6
REVISED: FEBRUARY 2, 2005 Sign placement in TCP	COUNTY		CONTROL	SECTION / JOB	HIGHWAY
REVISED:	KARNES		6386	41 / 001	US181,ETC