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**STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION**

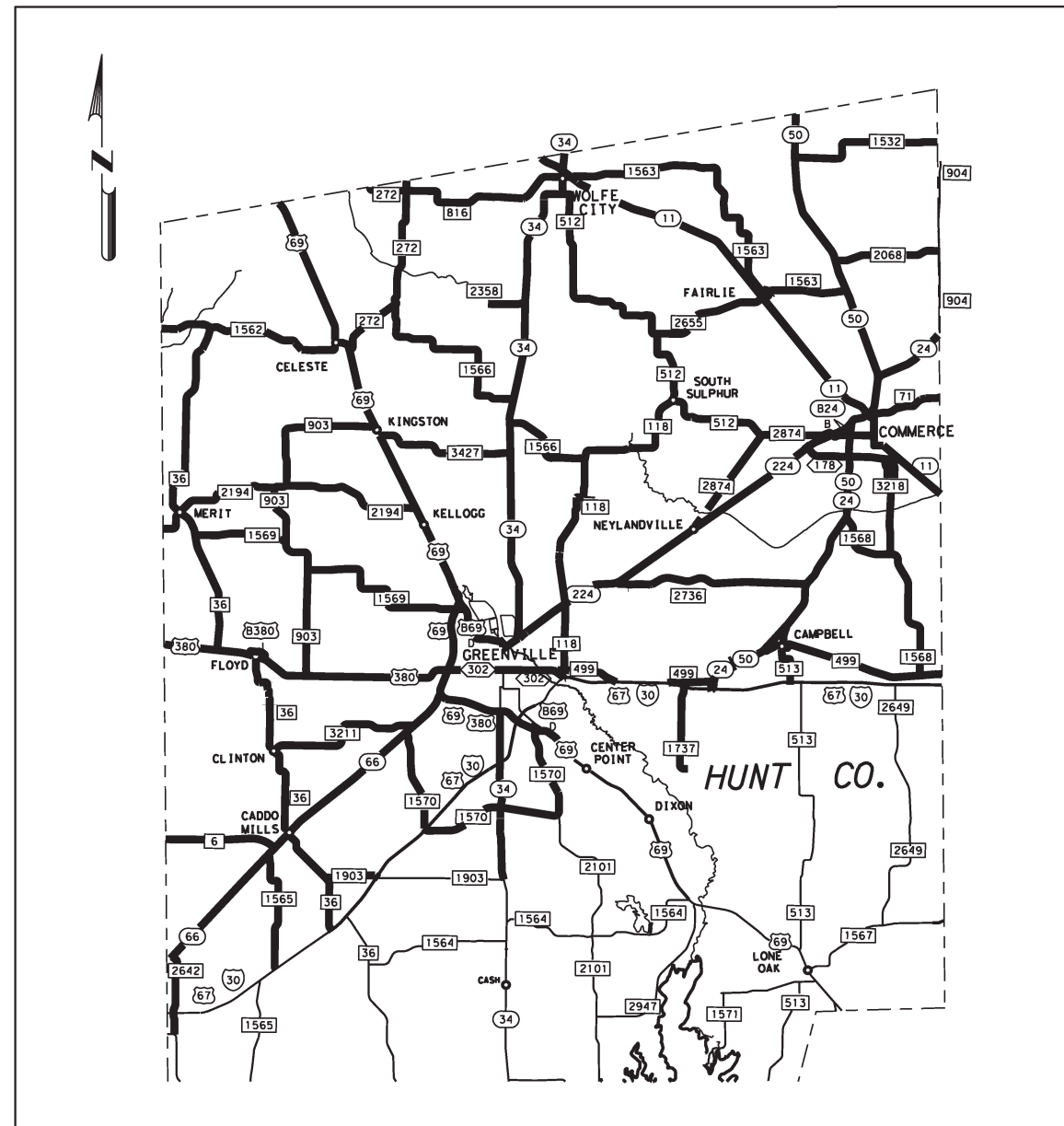
**PLANS OF PROPOSED
HIGHWAY ROUTINE MAINTENANCE CONTRACT**

TYPE OF WORK:

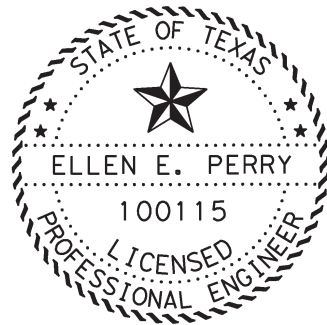
RIGHT-OF-WAY MOWING

PROJECT NO. : RMC 6427-31-001
 HIGHWAY : SH 11, ETC.
 LIMITS OF WORK : HUNT COUNTY

GRAPHICS FILE		MAINTENANCE PROJECT NO.	SHEET NO.
		RMC 6427-31-001	1
CHECKED	STATE	STATE DIST.	COUNTY
	TEXAS	PAR	HUNT
CHECKED	CONT.	SECT.	JOB
	6427	31	001
			HIGHWAY NO.
			SH 11, ETC.



REQUIRED SIGNS SHALL BE IN ACCORDANCE WITH BC (1)-21 THRU BC (12)-21 AND THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".



Ellen Perry, P.E., PE 11/09/2022
 DATE

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE, AS MARKED WITH (>) HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.



SUBMITTED FOR LETTING:
James Atkins, P.E. 11/9 20 22
 AREA ENGINEER

RECOMMENDED FOR LETTING
Ellen Perry, P.E. 11/09 20 22
 DISTRICT MAINTENANCE ENGINEER

APPROVED FOR LETTING
[Signature], P.E. 11/14/2022
 DIRECTOR OF OPERATIONS

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

Project Number: RMC 6427-31-001

County: Hunt

Control: 6427-31-001

Highway: SH 11, ETC.

GENERAL NOTES:

PROJECT DESCRIPTION: This project consists of mowing roadside vegetation on various highways in Hunt County as denoted on the location map.

Use batwing rotary mowers with deflection devices.

The Department will inspect equipment to ensure that all mowers are adjusted properly for the correct mowing height and meet all safety requirements prior to beginning mowing operations and at any time during the contract period.

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

Greenville Area Office

James Atkins II, P.E. – James.Atkins@txdot.gov

Willie Bolden II, P.E.- Willie.Bolden@txdot.gov

Contractor questions will be accepted through email, phone, and in person by the above individuals.

All contractor questions will be reviewed by the Engineer. Once a response is developed, it will be posted to TxDOT's Public FTP at the following Address: <https://ftp.dot.state.tx.us/pub/txdot-info/Pre-Letting%20Responses/>

All questions submitted that generate a response will be posted through this site. The site is organized by District, Project Type (Construction or Maintenance), Letting Date, CCSJ/Project Name.

Contact the project manager for any questions concerning locations of non-mow areas.

TXDOT PROJECT SUPERVISOR: All work on this contract will be scheduled and directed by the following person. Payment will be made on a monthly basis for work completed and accepted according to specifications. All payment requests shall be directed to the same.

Herman Andrus, Maintenance Section Supervisor
3001 IH 30 East
Greenville, TX 75403
Office (903) 453-3103

Contract Prosecution: Each contract awarded by the Department stands on its own and as such, is separate from other contracts. A Contractor awarded multiple contracts must be capable and sufficiently staffed to concurrently process all contracts at the same time.

Project Number: RMC 6427-31-001

County: Hunt

Control: 6427-31-001

Highway: SH 11, ETC.

ITEM 2: INSTRUCTION TO BIDDERS

View plans on-line or download from the web at:

<http://www.txdot.gov/business/letting-bids/plans-online.html>

Order plans from any of the plan reproduction companies shown on the web at:

<http://www.txdot.gov/business/letting-bids/repro-companies.html>

ITEM 5: CONTROL OF THE WORK

Utilize a crew experienced in the work of mowing roadside vegetation.

ITEM 7: LEGAL RELATIONS AND RESPONSIBILITIES

Repair damage caused by the Contractor's operations to the highway right of way, signs, fences, delineators, plant materials or any other appurtenances, part of or adjacent to the highway facility. Report such damages to the Department at the time of occurrence.

When damage is of the nature that the repair can be made by the Contractor, then the Contractor is to, at his own expense, repair the damage to the Department's satisfaction. This would include straightening all signs, delineators, etc., knocked out of plumb. Unless otherwise reported to the inspector before work begins, it is assumed that all signs, mailbox posts, delineators, etc. are plumb.

When damage is of the nature that the repair must be made by the Department, such as damage to signals, school zone assemblies, etc., a detailed and accurate estimate of the Department's cost to repair the damage will be given to the Contractor in writing as soon as possible after the damage occurs, and a deduction for the estimated cost will be made from the payment estimate during the month in which the damage occurred. When actual repairs are completed and actual cost is determined an adjustment will be made, if necessary, during the monthly payment estimate in the month when repairs are completed by the Department. Repairs by the Department and settlement of actual cost will be done as soon as possible.

When damage is of the nature that a sign, delineator, mailbox post, or other Department property must be replaced by the Department, a deduction for the cost of replacement will be made from the payment estimate during the month in which the damage occurred. Replacement costs will be charged in accordance with the Replacement Cost Estimating Document prepared by the Traffic Operations Division, dated 9-2015, and included in the plans.

Replace damaged mailboxes, at the Contractor's expense, with ones of equal or better quality than the ones damaged.

There are no significant traffic generator events identified.

Project Number: RMC 6427-31-001

County: Hunt

Control: 6427-31-001

Highway: SH 11, ETC.

ITEM 8: PROSECUTION AND PROGRESS

The Engineer will authorize the first cycle to begin June 1. Time charges will begin when work begins or on the 7th calendar day following the authorization date if no work has begun.

Begin the second cycle within seven days of the authorization date to begin work.

The Department will issue a written notice to begin a roadside mowing cycle. The notice will include the number of acres to be mowed, the number of working days allowed to complete the cycle, and the date when time charges for the cycle will start. The number of working days will be determined by dividing the total number of acres required for the cycle by the daily average rate to be mowed.

Time will be computed according to Item 8.3.1.6, Other.

Working days will be charged Monday through Friday, excluding national holidays, if weather or other conditions permit the performance of the principle unit of work underway, as determined by the Engineer, for a continuous period of at least 7 hr. between 7:00 A.M. and 6:00 P.M., unless otherwise shown in the Contract. The Contractor has the option of working on Saturdays or state holidays. Provide sufficient advance notice to the Engineer when scheduling work on Saturdays or state holidays. Work on Sundays and national holidays will not be permitted without written permission of the Engineer. If work requiring an Inspector to be present is performed on a Saturday, Sunday, or any holiday, and weather or other conditions permit the performance of work of 7 hr. between 7:00 A.M. and 6:00 P.M., a working day will be charged.

In reference to Item 8.3.2. Restricted Work Hours, mowing operations will not begin until thirty minutes after sunrise and will end thirty minutes before sunset.

Liquidated damages, as set forth in Special Provision 000-1243 shall be assessed if work is not completed within the specified number of working days per cycle.

If the total number of working days is not used during the completion of a cycle, the working days will not be carried forward to a subsequent cycle.

ITEM 500: MOBILIZATION

One callout mobilization will be paid for each full width mowing cycle and for each work order for spot mowing. A work order may include multiple locations.

Project Number: RMC 6427-31-001

County: Hunt

Control: 6427-31-001

Highway: SH 11, ETC.

ITEM 502: BARRICADES, SIGNS, AND TRAFFIC HANDLING

The Contractor's personnel shall be dressed in approved safety attire while outside vehicles and/or while performing work on the highway right of way. For daytime and nighttime activity, flaggers shall wear high-visibility safety apparel that meets the Performance Class 2 or 3 requirements of the ANSI/ISEA 107-2004 publication entitled "American National Standard for High-Visibility Apparel and Headwear".

All traffic control shall be in accordance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD). Traffic Control will be considered subsidiary to the various bid items. No more than one lane shall be blocked at any time on any highway.

Use only signs that are professionally built.

Comply with the respective signs and portable sign supports as shown on the Roadside Traffic Control Plan Sheet.

ITEM 730: ROADSIDE MOWING

Full-Width Mowing –

The Contractor shall be responsible for removing and replacing guardrail, posts, bolts, nuts, etc, in those areas where entry cannot be made in any other way.

Mow a minimum of 125 acres per day.

Hand trim all sloped areas that are 3:1 ratio or steeper.

Hand trimming shall be cut to approximately four inches (4").

Use of all-terrain vehicles (ATV's) are allowed for hand trimming.

Follow the Texas Traffic Law, Transportation Code (TRC 663.037) on all-terrain vehicles.

Spot Mowing -

Work requests are made on a callout basis. The minimum quantity per callout is three acres. If a weather event prevents a full seven hour work day, the day will be credited appropriately and the work must be done on the very next working day weather will permit.

Work must begin in the morning on one of the next two working days following notification. The seven day grace period from time charges does not apply to Spot Mowing callouts. Ten working days are set up in this contract to cover Spot Mowing.



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 6427-31-001

DISTRICT Paris
HIGHWAY SH0011


COUNTY Hunt

CONTROL SECTION JOB				6427-31-001		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00191960			
COUNTY				Hunt			
HIGHWAY				SH0011			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	500-6033	MOBILIZATION (CALLOUT)	EA	3.000		3.000	
	730-6002	FULL - WIDTH MOWING	AC	6,838.000		6,838.000	
	730-6003	SPOT MOWING	AC	150.000		150.000	

SUMMARY OF MOWING

Tract No.	Highway	Limits	Ref. Marker	Length Miles	ITEM 730 - 6002 FULL WIDTH MOWING			
					No. of Full Width Mowing Cycles	Acres Per One Full Width Mowing Cycle	Total Acres Full Width Mowing	No. of Working Days Per Cycle
1	SH 11	From: Fannin County Line To: Park Street (Commerce)	636 650	14.10	2	148	296	1.184
2	SH 11	From: Maple Street (Commerce) To: Hopkins County Line	651 654	2.66	2	17	34	0.136
3	SH 24/50	From: Delta County Line To: SH 224 (Commerce)	238 242	4.26	2	135	270	1.080
4	SH 24/50	From: SH 224 (Commerce) To: Commerce South City Limit	242 244	1.90	2	61	122	0.488
5	SH 24/50	From: Commerce South City Limit To: IH 30 NFR (FM 499)	244 253	8.39	2	164	328	1.312
6	BU 224 B	From: SH 224 (Commerce) To: SH 24/50 (Commerce)	636 637	0.68	2	5	10	0.040
7	SH 34	From: Fannin County Line To: FM 1536 (Wolfe City)	262 263	0.81	2	8	16	0.064
8	SH 34	From: FM 512 (Wolfe City) To: Greenville North City Limit	263 277	14.09	2	163	326	1.304
9	SH 34	From: Stonewall Street To: SH 34 (Wolfe City Drive)	278 280	0.53	2	8	16	0.064
10	SH 34	From: IH 30 To: FM 1903	284 287	3.68	2	36	72	0.288
11	SH 50	From: Fannin County Line To: SH 24	256 265	9.30	2	58	116	0.464
12	SH 224	From: 0.18 Mi W of Greenville E City Limit To: SH 50 (North of Commerce)	630 644	14.18	2	148	296	1.184
13	LP 178	From: SH 224 (Commerce) To: SH 24/50 (Commerce)	634 637	1.46	2	31	62	0.248
14	FM 6	From: Collin County Line TO: SH 66	616 620	3.59	2	20	40	0.160
15	FM 36	From: FM 1562 TO: US 380	228 230	11.20	2	185	370	1.480
16	FM 36	From: US 380 TO: First Street (Caddo Mills)	240 247	6.28	2	61	122	0.488
17	FM 36	From: SH 66 (Caddo Mills) TO: IH 30 NFR	247 251	3.63	2	33	66	0.264
18	FM 71	From: BU 224B (Commerce) To: Commerce East City Limit	638 639	0.60	2	2	4	0.016

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CONT	SECT	JOB	HIGHWAY
6427	31	001	SH 11, ETC.
DIST	COUNTY		SHEET NO.
PAR	HUNT		5

QUANTITY SUMMARY

SUMMARY OF MOWING

Tract No.	Highway	Limits	Ref. Marker	Length Miles	ITEM 730 - 6002 FULL WIDTH MOWING			
					No. of Full Width Mowing Cycles	Acres Per One Full Width Mowing Cycle	Total Acres Full Width Mowing	No. of Working Days Per Cycle
19	FM 71	From: Commerce City Limit To: Delta C/L	639 640	1.65	2	21	42	0.168
20	FM 118	From: FM 512 To: FM 499	230 241	11.39	2	97	194	0.776
21	FM 272	From: Fannin County Line To: US 69	624 631	7.39	2	53	106	0.424
22	FM 499	From: SP 302 To: IH 30	628 630	2.09	2	11	22	0.088
23	FM 499	From: IH 30 NFR To: SH 24/50	632 634	1.43	2	8	16	0.064
24	FM 499	From: SH 24/50 (Campbell) To: Hopkins County Line	635 641	5.97	2	39	78	0.312
25	FM 512	From: SH 34 (Wolfe City) To: FM 2874	224 237	12.99	2	90	180	0.720
26	FM 513	From: SH 24/50 (Campbell) To: IH 30 NFR	238 240	2.11	2	14	28	0.112
27	FM 816	From: Fannin County Line To: 200' W. of Mason Street (Wolfe City)	224 229	5.22	2	46	92	0.368
28	FM 903	From: US 69 To: US 380	232 244	11.81	2	95	190	0.760
29	FM 1532	From: SH 50 To: FM 904 (Delta County Line)	636 641	5.10	2	27	54	0.216
30	FM 1562	From: Collin County Line To: US 69 (Celeste)	616 622	5.90	2	37	74	0.296
31	FM 1563	From: Preston Street (Wolfe City) To: SH 50	626 639	12.55	2	71	142	0.568
32	FM 1565	From: SH 66 To: IH 30 NFR	246 250	3.88	2	33	66	0.264
33	FM 1566	From: FM 272 To: SH 34	622 629	6.53	2	69	138	0.552
34	FM 1566	From: SH 34 To: FM 118	629 633	3.09	2	25	50	0.200
35	FM 1568	From: SH 24/50 To: FM 499	236 243	6.59	2	58	116	0.464
36	FM 1569	From: FM 903 To: FM 36	616 619	3.00	2	25	50	0.200

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CONT	SECT	JOB	HIGHWAY
6427	31	001	SH 11, ETC.
DIST	COUNTY		SHEET NO.
PAR	HUNT		6

QUANTITY SUMMARY

SUMMARY OF MOWING

Tract No.	Highway	Limits	Ref. Marker	Length Miles	ITEM 730 - 6002 FULL WIDTH MOWING			
					No. of Full Width Mowing Cycles	Acres Per One Full Width Mowing Cycle	Total Acres Full Width Mowing	No. of Working Days Per Cycle
37	FM 1569	From: FM 903 To: BU 69D (Greenville)	620 627	6.10	2	49	98	0.392
38	FM 1903	From: FM 36 To: IH 30 NFR	620 621	1.64	2	41	82	0.328
39	FM 2068	From: SH 50 To: FM 904 (Delta County Line)	636 639	3.42	2	21	42	0.168
40	FM 2194	From: Collin County Line To: FM 903	616 620	4.43	2	39	78	0.312
41	FM 2194	From: FM 903 To: US 69	620 625	4.46	2	42	84	0.336
42	FM 2358	From: SH 34 To: End of State Maintenance	624 625	1.18	2	10	20	0.080
43	FM 2642	From: SH 66 To: FM 35	248 251	2.60	2	10	20	0.080
44	FM 2655	From: FM 512 To: FM 1563	630 644	3.91	2	26	52	0.208
45	FM 2736	From: SH 224 To: SH 24/50	630 636	6.21	2	57	114	0.456
46	FM 2874	From: SH 224 (Neylandville) To: End of State Maintenance	232 233	0.35	2	3	6	0.024
47	FM 2874	From: End of State Maintenance To: SH 224 (Commerce)	233 238	4.31	2	34	68	0.272
48	FM 3211	From: FM 36 To: SH 66	618 623	5.16	2	44	88	0.352
49	FM 3218	From: LP 178 (Commerce) To: FM 1568	232 235	3.09	2	33	66	0.264
50	FM 3247	From: US 69 To: SH 34	622 627	4.56	2	37	74	0.296
51	US 69	From: Fannin County Line To: BU 69D (North of Greenville)	234 248	14	2	77	154	0.616
52	US 69	From : BU 69D (North of Greenville) To: Greenville South City Limit	248 256	8.00	2	192	384	1.536
53	US 69	From: Greenville South City Limit To: FM 1564	256 263	6.46	2	100	200	0.800
54	BU 69D	From: US 69 (North of Greenville) To: Dalton Street	236 238	2.83	2	12	24	0.096

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CONT	SECT	JOB	HIGHWAY
6427	31	001	SH 11, ETC.
DIST	COUNTY		SHEET NO.
PAR	HUNT		7

QUANTITY SUMMARY

SUMMARY OF MOWING


Tract No.	Highway	Limits	Ref. Marker	Length Miles	ITEM 730 - 6002 FULL WIDTH MOWING			
					No. of Full Width Mowing Cycles	Acres Per One Full Width Mowing Cycle	Total Acres Full Width Mowing	No. of Working Days Per Cycle
55	BU 69D	From: Standford Street To: US 69 South	241 243	1.28	2	15	30	0.120
56	US 380	From: Collin County Line To: FM 903	658 662	5.16	2	121	242	0.968
57	US 380	From: FM 903 To: US 69 South	662 667	4.25	2	80	160	0.640
58	BU 380J	From: US 380 East of Floyd To: US 380 West of Floyd	616 617	1.82	2	29	58	0.232
59	SH 66	From: Collin County Line To: FM 1570	622 633	10.75	2	86	172	0.688
60	SH 66	From: US 69 To: FM 1570	633 635	1.70	2	12	24	0.096
61	SP 302	From: US 69/380 To: 200' West of Carver Street	667 668	0.11	2	6	12	0.048
62	SP 302	From: Houston Street To: FM 499	628 630	1.78	2	4	8	0.032
63	FM 1570	From: BU 69 To: SH 34	240 245	4.97	2	29	58	0.232
64	FM 1570	From: SH 34 To: IH 30 SFR	245 248	2.64	2	12	24	0.096
65	FM 1570	From: IH 30 NFR To: SH 66	248 251	3.19	2	21	42	0.168
66	SS 1570	From: SH 66 To: US 380	250 252	2.00	2	49	98	0.392
67	FM 1737	From: IH 30 To: End of Maintenance	240 243	2.77	2	26	52	0.208
TOTAL TRACTS 1 THROUGH 67				335.16		3419	6838	28

Working days are figured on 125 acres per day.

Summary of Working Days:

First Cycle Mowing Tracts 1-66:	28
Second Cycle Mowing Tracts 1-66:	28
Days Allowed For Spot Mowing:	10
Total Working Days:	<u>66</u>

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CONT	SECT	JOB	HIGHWAY
6427	31	001	SH 11, ETC.
DIST	COUNTY		SHEET NO.
PAR	HUNT		8

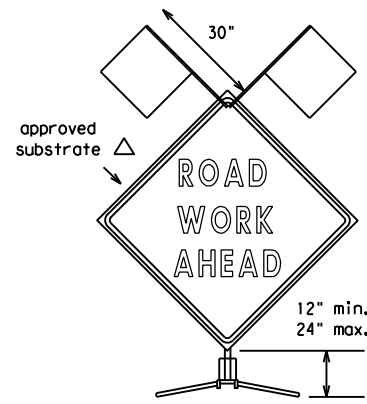
QUANTITY SUMMARY

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

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	

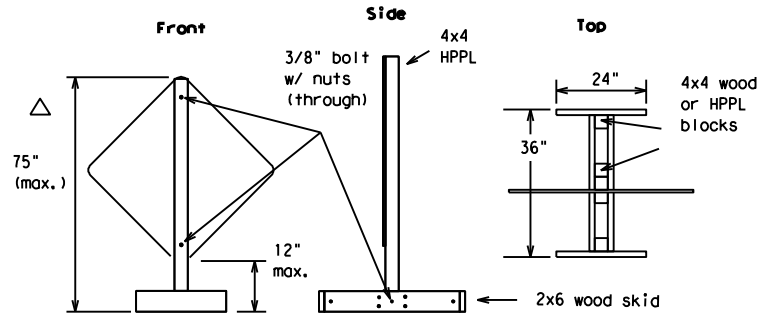
EXAMPLES OF SIGN SUPPORTS

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



Flags as required by Engineer or as shown on plans

SHORT TERM DURATION, DAYTIME USE ONLY PORTABLE SIGN SUPPORTS

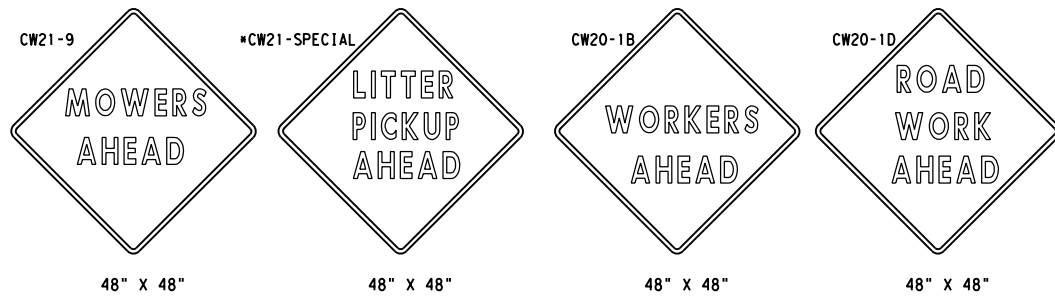


The upright SHALL be made of hollow-profile plastic lumber (HPPL). Wood or metal shall NOT be used.

1 Foot Mounting Height

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

Nails will NOT be allowed.



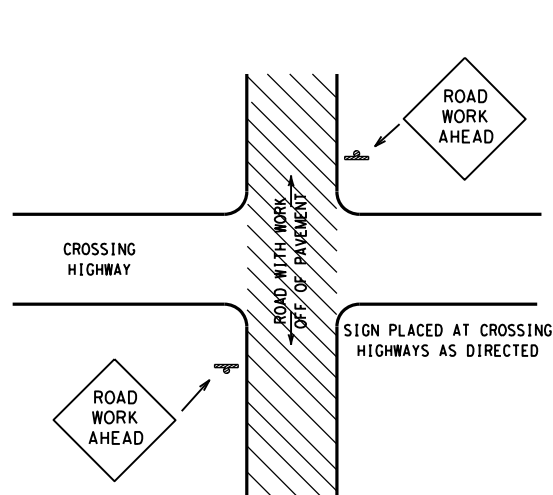
SIGN IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS

MOWERS AHEAD SIGNS ARE USED FOR MOWING OPERATIONS.

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

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

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



TYPICAL LOCATION OF SIGNS AT HIGHWAY CROSSING

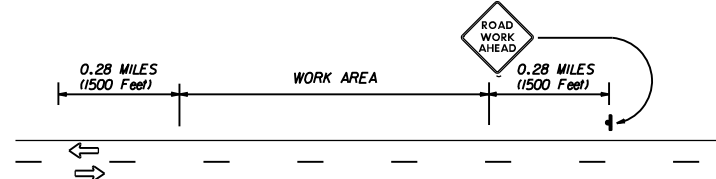
WORK AREA IS A MAXIMUM OF 2.0 MILES UNLESS OTHERWISE DIRECTED. SIGNS MAY REMAIN IN PLACE ONLY DURING DAYLIGHT HOURS.

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

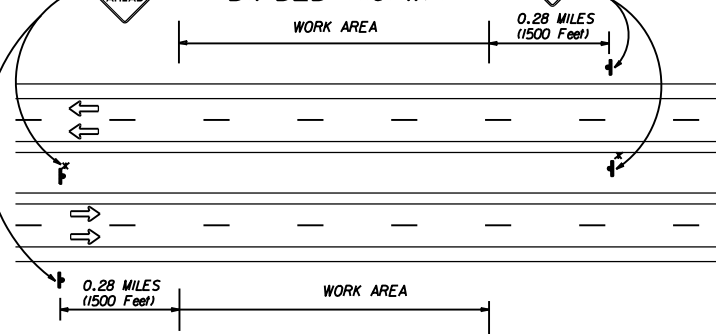
ROAD WORK AHEAD SIGNS SHOWN AS EXAMPLES, ONE OF THE FOUR TYPE SIGNS WILL BE USED AS DIRECTED.

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

UNDIVIDED HIGHWAY OR FRONTAGE ROAD



DIVIDED HIGHWAY



TRAFFIC CONTROL PLAN FOR WORK OFF OF THE PAVED SURFACE.

GENERAL NOTES FOR WORK ZONE SIGNS

- Contractor shall install and maintain signs in a straight and plumb condition and/or as directed by the Engineer.
- Wooden sign posts shall be painted white.
- Barricades shall NOT be used as sign supports.
- Nails shall NOT be used to attach signs to any support.
- All signs shall be installed in accordance with the plans or as directed by the Engineer. Signs shall be used to regulate, warn, and guide the traveling public safely through the work zone.
- The Contractor may furnish either the sign design shown in the plans or in the "Standard Highway Sign Designs for Texas" (SHSD). The Engineer/Inspector may require the Contractor to furnish other work zone signs that are shown in the TMUTCD but may have been omitted from the plans. Any variation in the plans shall be documented by written agreement between the Engineer and the Contractor's Responsible Person. All changes must be documented in writing before being implemented. This can include documenting the changes in the Inspector's TxDOT diary and having both the Inspector and Contractor initial and date the agreed upon changes. The additional signs requested by the Engineer/Inspector shall not be subsidiary.
- The Contractor shall furnish sign supports listed in the "Compliant Work Zone Traffic Control Device List" (CWZTCD). The Contractor shall install the sign support in accordance with the manufacturer's recommendations. If there is a question regarding installation procedures, the Contractor shall furnish the Engineer a copy of the manufacturer's installation recommendations so that the Engineer can verify the correct procedures are being followed.
- The Contractor is responsible for sign installations and replacing signs with damaged or cracked substrates and/or damaged or marred reflective sheeting as directed by the Engineer/Inspector.
- Identification markings may be shown only on the back of the sign substrate. The maximum height of letters and/or company logos used for identification shall be 1".
- The Contractor shall replace damaged wood posts. New or damaged wood sign posts shall not be spliced.

Duration of Work (as defined by the "Texas Manual on Uniform Traffic Control Devices" Part VII)

- The Contractor is responsible for ensuring the sign support and substrate meets crashworthiness. For mowing operation all signs and supports are Short-term Duration for daytime work.
- The Contractor shall furnish the sign sizes shown on this sheet or as directed by the Engineer.

SIGN SUBSTRATES

- The Contractor shall ensure that the sign substrate is allowed for the type of sign support that is being used. The CWZTCD lists each substrate that can be used on the different types and models of sign supports.
- "Mesh" type materials are NOT an approved sign substrate.
- All wooden individual sign panels fabricated from 2 or more pieces shall have one or more plywood cleat, 1/2" thick by 6" wide, fastened to the back of the sign and extending fully across the sign. The cleat shall be attached to the back of the sign using wood screws that do not penetrate the face of the sign panel. The screws shall be placed on both sides of the splice and spaced at 6" centers. The Engineer may approve other methods of splicing the sign faces.

REFLECTIVE SHEETING

- Reflectorized signs shall be constructed of sheeting meeting the color and retro-reflectivity requirements of DMS-8300 or DMS-8310. The DMS specifications can be accessed from the following web address:
http://manuals.dot.state.tx.us:80/dynaweb/colmates/@Generic_CollectionView;cs=default;ts=default
- White sheeting, meeting the requirements of DMS-8300 Type C (High Specific Intensity), shall be used for signs with white background and channelizing devices.
- Orange sheeting, meeting the requirements of DMS-8300 Type E (Fluorescent Prismatic), shall be used for signs with orange backgrounds.

SIGN LETTERS

- All sign letters and numbers shall be clear, and open rounded type uppercase alphabet letters as approved by the Federal Highway Administration (FHWA) and as published in the "Standard Highway Sign Design for Texas" manual. Signs, letters and numbers shall be of first class workmanship in accordance with Department Standards and Specifications.

REMOVING OR COVERING

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

SIGN SUPPORT WEIGHTS

- Where sign supports require the use of weights to keep from turning over, the use of sandbags with dry cohesionless sand is recommended.
- The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight.
- Rock, concrete, iron, steel or other solid objects will not be permitted for use as sign support weights.
- Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs.
- Sandbags shall be made of a durable material that tears upon vehicular impact.
- Rubber (such as tire inner tubes) shall NOT be used for sandbags.
- Rubber ballasts (such as those used with cones or edgeline channelizers) shall NOT be used as sign support weights.
- Sandbags shall only be placed along or laid over the base supports of the traffic control device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners. Sandbags shall be placed along the length of the skids to weigh down the sign supports.
- Sandbags shall NOT be placed under the skid and shall not be used to level sign supports placed on slopes.

CONTRACTOR REQUIREMENTS FOR MAINTAINING PERMANENT SIGNS WITHIN THE PROJECT LIMITS

Any sign, sign support or traffic control device that is struck or damaged by the Contractor or his/her construction equipment shall be replaced or repaired as soon as possible by the Contractor at the Contractor's expense.

Only pre-qualified products shall be used. A copy of the "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources and may be obtained by contacting:

Standards Engineer
Traffic Operations Division - TE
Texas Department of Transportation
125 East 11th Street
Austin, Texas 78701-2483
Phone (512) 416-3120
Fax (512) 416-3299

Instructions to locate the "CWZTCD" on TxDOT website are:

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

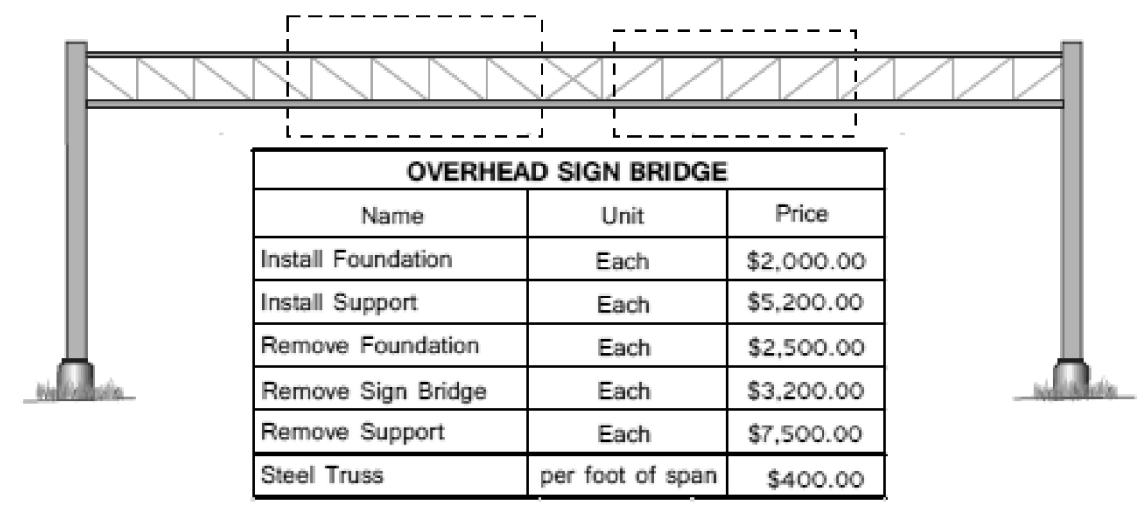
Texas Department of Transportation
Maintenance Division
Standard Plans

ROADSIDE TRAFFIC CONTROL PLAN

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

FILE: RSTCPO5.DGN	DR: LJB	CR: JG	DR: -	CR: -	NEG NO.:
© TxDOT FEBRUARY 2005		STATE DISTRICT	FEDERAL REGION	MAINTENANCE PROJECT	SHEET
REVISED: September 17, 2004	PAR	6	RMC 6427-31-001	9	
REVISED: FEBRUARY 2, 2005 Sign placement in TCP		COUNTY	CONTROL SECTION	JOB	HIGHWAY
REVISED:		HUNT	6427	31	001 SH 11, ETC

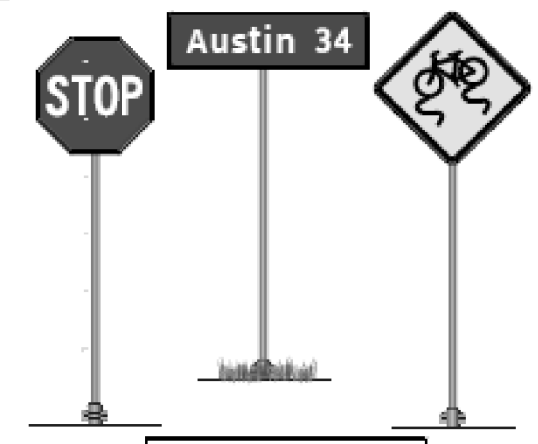
SIGNS



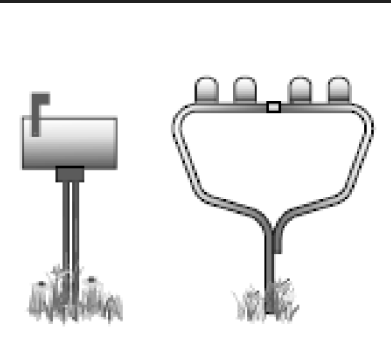
OVERHEAD SIGN BRIDGE		
Name	Unit	Price
Install Foundation	Each	\$2,000.00
Install Support	Each	\$5,200.00
Remove Foundation	Each	\$2,500.00
Remove Sign Bridge	Each	\$3,200.00
Remove Support	Each	\$7,500.00
Steel Truss	per foot of span	\$400.00



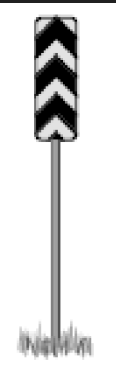
LARGE GUIDE SIGNS		
Name	Unit	Price
Foundation	Each	\$850.00
Sign	Per Sq. Ft.	\$25.00
Support	Each	\$1,375.00



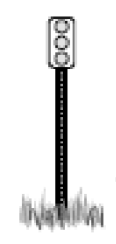
SMALL SIGNS		
Name	Unit	Price
Sign	Each	\$700.00



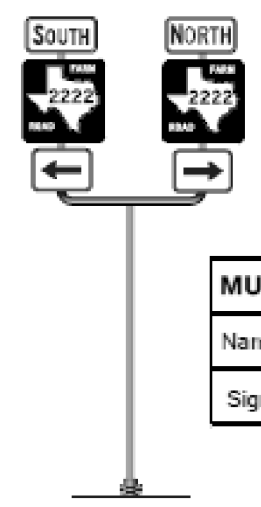
MAIL BOX SUPPORTS	
Name	Price (Each)
Single	\$165.00
Double	\$200.00
Multi-Support	\$500.00



OBJECT MARKER	
Unit	Price
Each	\$300.00



DELINEATOR/ OBJECT MARKER	
Unit	Price
Each	\$100.00



MULTI-SIGN MOUNT		
Name	Unit	Price
Sign	Each	\$900.00

**REPLACEMENT
COST
ESTIMATING
DOCUMENT**



CONT	SECT	JOB	HIGHWAY
6427	31	001	SH 11, ETC.
DIST	COUNTY		SHEET NO.
PAR	HUNT		10