

STATE OF TEXAS DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED HIGHWAY ROUTINE MAINTENANCE CONTRACT

MAINTENANCE PROJECT NO.			SHEET NO.
			1
STATE	DISTRICT	COUNTY	
TEXAS	PHARR	CAMERON, ETC	
CONTROL	SECTION	JOB	HIGHWAY
6381	98	001	FM 1847, ETC.

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-3	COUNTY MAPS
4	GENERAL NOTES
5-7	ESTIMATE AND QUANTITY SHEETS

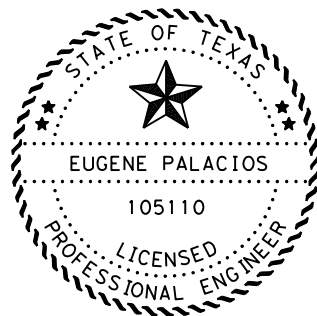
TYPE OF WORK:

Roadside Mowing and Litter Removal in Cameron and Willacy Counties

PROJECT NO.: RMC 6381-98-001
 HIGHWAY: FM 1847, ETC.
 LIMITS OF WORK: Various Roads in Cameron and Willacy Counties
 CONTRACT MANAGER: SAN BENITO MAINTENANCE

STATE STANDARDS

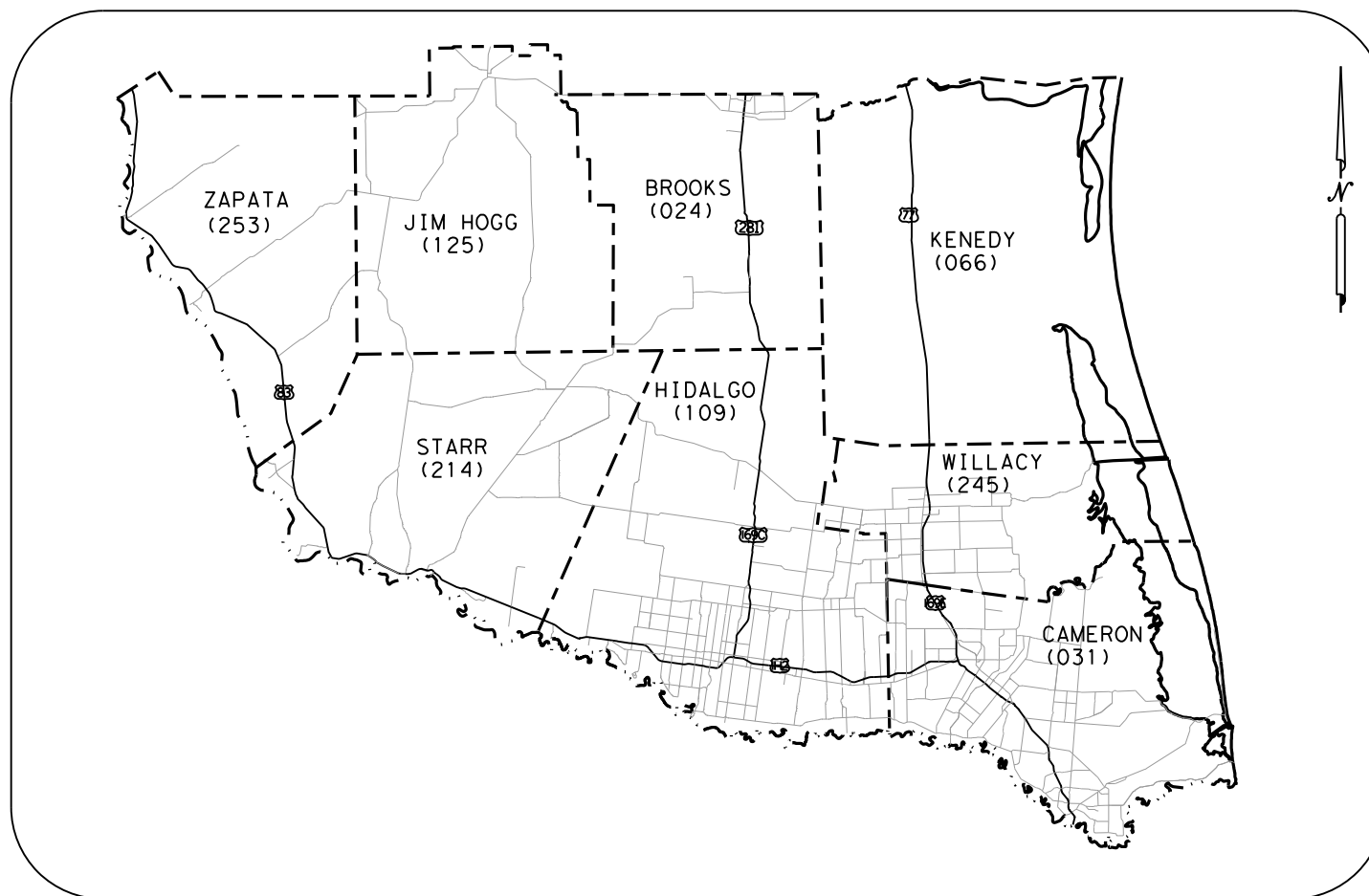
8 *RS-TCP-05



*THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

DocuSigned by:

 _____, P.E. 4/23/2021
8325CC1071A9427
 Signature of Registrant & Date



APPROVED FOR LETTING: DATE: 4/26/2021

DocuSigned by:

EABA335C2DAA48C
 DISTRICT ENGINEER

SUBMITTED FOR LETTING: DATE: 4/23/2021

DocuSigned by:

8325CC1071A9427
 PROJECT ENGINEER

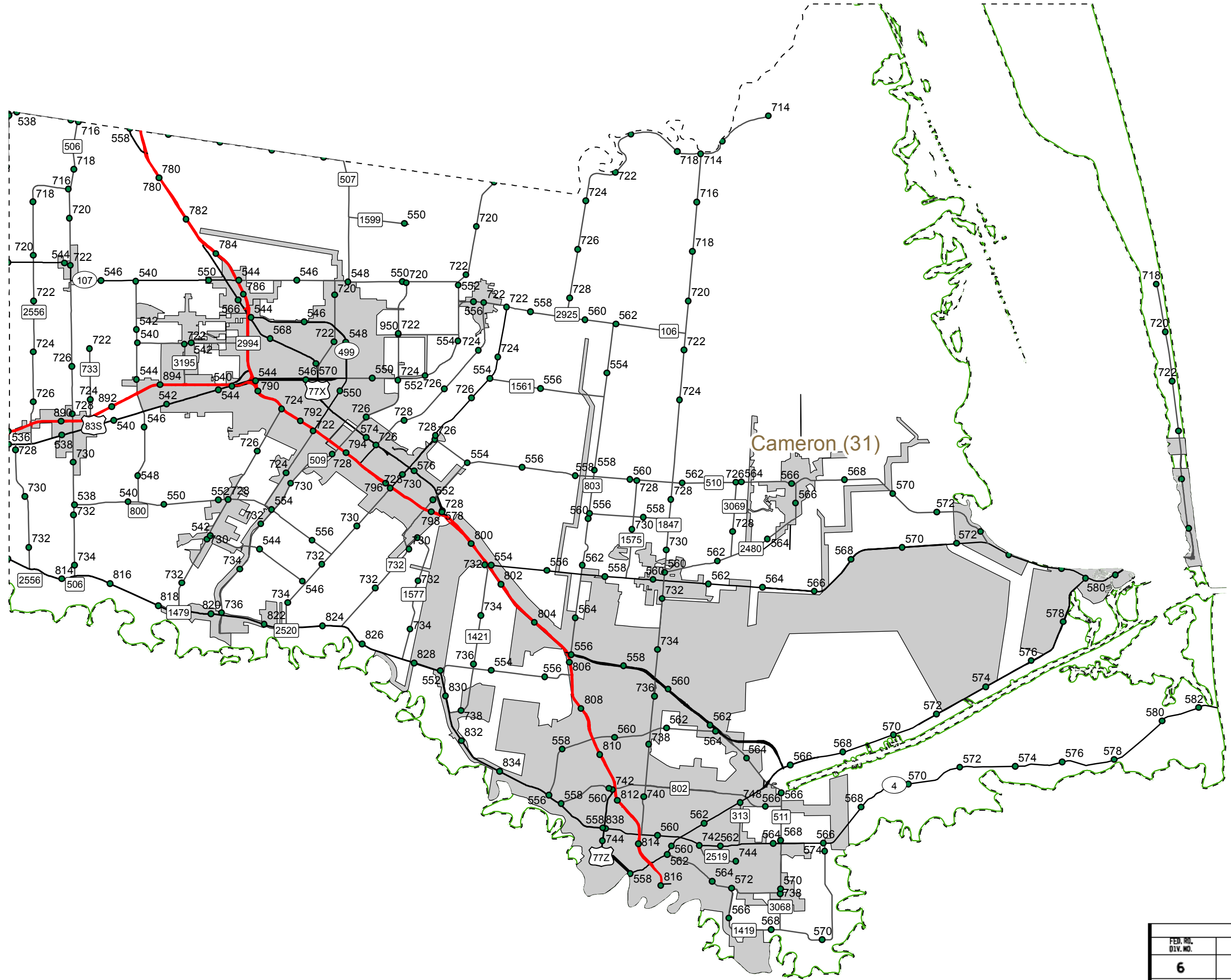
RECOMMENDED FOR LETTING: DATE: 4/23/2021

DocuSigned by:

E353D62C01B2433
 DIRECTOR OF MAINTENANCE

REQUIRED SIGNS SHALL BE IN ACCORDANCE WITH BC (1)-14 THROUGH BC (12)-14 AND THE 'TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES'.

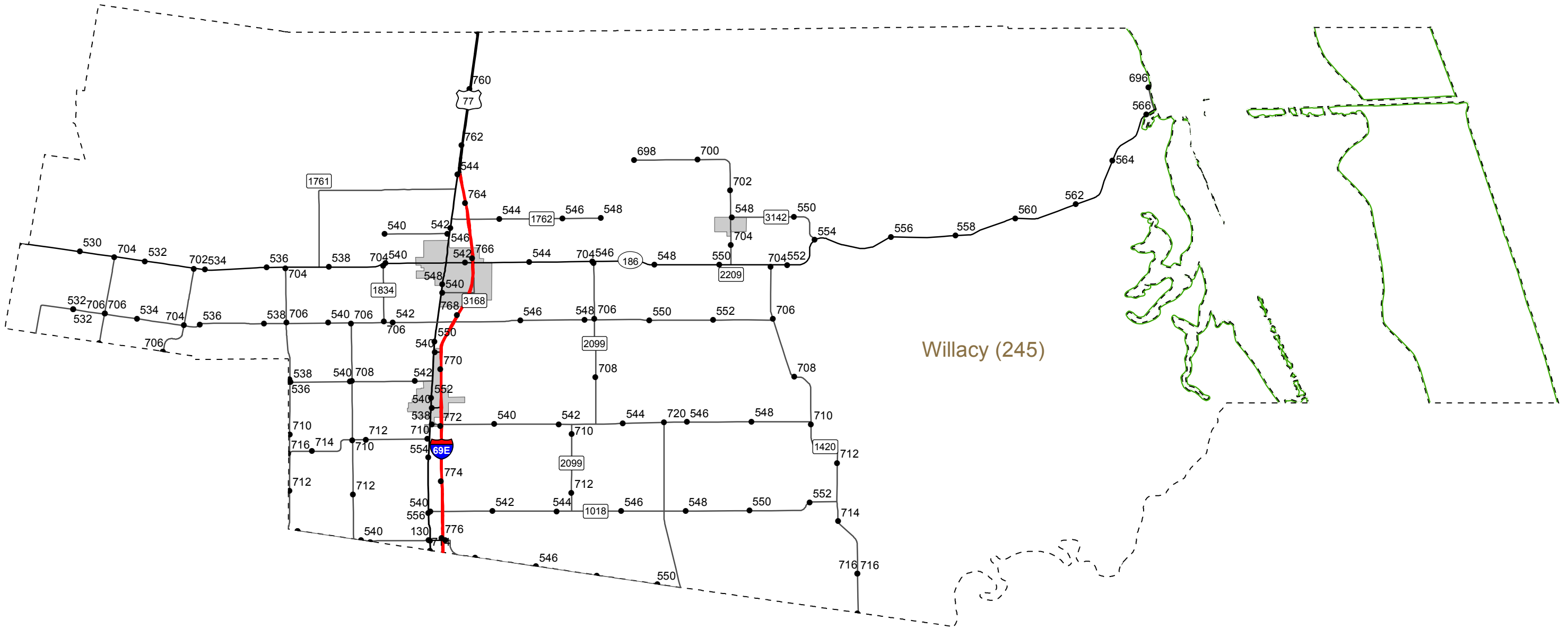
SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION, NOVEMBER 1, 2014 AND THE CONTRACT PROVISIONS.



Cameron (31)

Cameron County Reference Markers

FED. RD. DIV. NO.	STATE PROJECT NO.					SHEET NO.
6	6381-98-001					2
STATE	STATE DIST. NO.	COUNTY	CONTROL	SECTION	JOB	HIGHWAY NO.
TX	PHR	CAMERON	6381	9 8	001	FM1847, ETC.



Willacy (245)

Willacy Co Reference Markers

FED. NO. DIV. NO.	STATE PROJECT NO.					SHEET NO.
6	6381-98-001					3
STATE	STATE DIST. NO.	COUNTY	CONTROL	SECT/CON	JOB	HIGHWAY NO.
TX	PHR	CAMERON	6381	98	001	FM1847, Etc.

GENERAL NOTES:**PLANS ARE REQUIRED**

View plans on-line or download from the web at:
http://www.dot.state.tx.us/business/contractors_consultants/plans_online.htm

Reproduction Firms for Construction and Routine Maintenance Contracts and Informational Proposals:
http://www.dot.state.tx.us/business/contractors_consultants/repro_companies.htm

GENERAL

This contract is based on 18 months with an average of 4 litter and mowing cycles. Cycles may be increased due to need. This will be determined by the department's representative.

This contract will consist of 200 working days.

Each contract awarded by TxDOT 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 any and all contracts at the same time.

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 work.

The Contractor is responsible for damage to Department equipment, plants, shrubs, delineations, sign fixtures, mailboxes, etc.

The Contractor will furnish all supplies and equipment to successfully perform their duties.

All lost and found items will be turned over to the Department's Representative.

The Contractor is responsible for reporting daily any needed repairs, wash outs, cave-ins, etc. This information will be reported to the Department's Representative.

All personal protective equipment (PPE) will be provided by the Contractor and worn at all times by the Contractor personnel on State R.O.W.

All mowed grass and/or debris left on pavement and curb and gutter is to be removed by the Contractor the same day of the respective tract being mowed.

All work will be scheduled and directed by the following named Maintenance Supervisor:
San Benito Maintenance
 Evodio Cortina, Jr.
 (956) 399-5102

ITEM 2: INSTRUCTIONS TO BIDDERS

Contractor questions on this project are to be addressed to the following individual:
 Eugene Palacios, P.E., Transportation Engineer; Eugene.Palacios@txdot.gov

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

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

ITEM 3: AWARD AND EXECUTION OF CONTRACT

Contract shall commence upon an initial work order. Multiple work orders will be issued during contract period. Each work order will contain 1) begin start date, 2) specific work to be performed, and 3) allotted working days for completion.

Working days for a mowing cycle are based on an average production rate of **80 acres per day**. Contractor is required to provide adequate equipment and resources to achieve this production rate.

Liquidated damages will be assessed for any working day charged beyond the authorized time.

ITEM 502: BARRICADES, SIGNS AND TRAFFIC HANDLING

Comply with "Roadside Traffic Control Plan"(RS-TCP-05) and Barricade and Construction standards listed on the Title Sheet.

One high-intensity, yellow rotating dome light shall be required on all equipment such as trucks, trailers, autos, etc. (tractor and mower not required). These lights shall be mounted high enough to be visible from all directions and shall be operating when the equipment is used within the work area.

Attach two (2) safety flags to each mower. Placement shall be as directed by Department Representative.

Traffic control will not be paid for directly but shall be considered subsidiary to the various bid items.

SIGNING AND TRAFFIC CONTROL PLAN

The Contractor will comply with the latest Manual on Uniform Traffic Control Devices. Signs, sign stands and safety flags required to protect the traveling public shall be furnished by the Contractor. The Contractor will be responsible for the maintenance, repairs and replacement of all signs, and flags.

LIQUIDATED DAMAGES:

The time established for the completion of the work is an essential element of the Contract. The Contractor will be given written notification (Startup Letter) of when to begin each Mowing and/or Litter Removal cycle. Within the written notification, the Contractor will be given the number of days allowed to complete the work and the date when the time charges for Mowing and/or Litter Removal will begin. The number of days allowed to complete the cycles shall be determined based upon the minimum amount of mowing required per day.

Failure to complete the Mowing and/or Litter Removal cycle within the required number of working days specified in the written notification will result in liquidated damages for each working day charged over the number of working days specified in the Contract. The dollar amount specified in the Contract will be deducted from any money due or to become due the Contractor for each working day in the Contract or incomplete work order. This amount will be assessed not as a penalty, but as liquidated damages.

ITEM 730: ROADSIDE MOWING

The Contractor must have no less than eight (8) mowers in operation at all times. The amount of equipment is for information purposes only and the State will look at production rates to determine if performance is progressing satisfactorily.

All small trees and shrubs up to 1" diameter shall be mowed and all trees greater than 1" diameter shall be removed prior to mowing. Tree mowing and removal will be subsidiary to item 730 "Roadside Mowing".

Established non-mow areas are clearly marked at designated locations.

Slopes shall be mowed with no marring to surfaces or to established vegetation.

Other construction and/or maintenance contracts may be underway on roadsides to be mowed in this contract. The engineer will determine if these roadsides are to be mowed or not and will inform the contractor through the work order. When necessary, coordinate with other contractors that are working in the area.

Spot mowing is to be determined by the Department Representative and shall be used to address safety concerns near intersections, address sight distances, etc. The frequency is on a call out basis by the Department Representative. Litter is to be picked up prior to mowing and considered subsidiary to Item 730, "Roadside Mowing". The minimum acres per call out, are 4 acres.

Drain ditches shall be mowed under the respective cycle. The Contractor shall provide mowing equipment to mow slopes without damage to the drain ditch up to the current water's edge at the time of mowing. In the event that the drain ditch is dry, the Contractor shall mow the bottom width (horizontal flat area) of the drain ditch. The quantity of mowing includes the side slopes, flat bottom width as well as the top bank area up to the right of way line.

ITEM 734: LITTER REMOVAL

Litter shall be paid after the respective area has been mowed. The right of way shall be clean with no or very minor litter. Mowed over debris that creates a large amount of debris shall be picked up by the Contractor within the same day of mowing or no later than the next day. The Contractor shall use their judgment when to perform litter pick-up operations.

**GENERAL NOTES**

FED. RD. DIV. NO.		COUNTY				SHEET NO.
		CAMERON				4
STATE	DIST.	CONT.	SECT.	JOB	HIGHWAY NO.	
TEXAS	21	6381	98	001	FM 1847	

ESTIMATE & QUANTITY SHEET

CONTRACT #: 6381-98-001
CONTRACT MANAGER: San Benito Maintenance

CAMERON COUNTY BROWNSVILLE MAINTENANCE

HIGHWAY	TRACT NO.	LIMITS	FROM R.M.	TO R.M.	LENGTH MILES	FULL-WIDTH MOWING			LITTER REMOVAL			
						OF FULL-WIDTH MOWING	PER TRACT FULL-WIDTH MOWING	TOTAL ACRES FULL-WIDTH MOWING	OF LITTER REMOVAL	PER TRACT LITTER REMOVAL	TOTAL ACRES LITTER REMOVAL	
FM 803	1	From FM 510 South to FM 511	558	566	7.20	4	26.18	104.72	0	0.00	0.00	
FM 3069	2	From FM 510 South to FM 2480	726	729	3.00	4	18.18	72.72	0	0.00	0.00	
FM 2480	3	From FM 510 South to FM 1847	560	567	6.00	4	40.72	162.88	4	40.72	162.88	
FM 2893	4	From FM 803 East to FM 1847	556	559	2.90	4	18.27	73.08	4	18.27	73.08	
FM 1575	5	From FM 510 South to SH 100	728	732	3.90	4	17.49	69.96	0	0.00	0.00	
SH 100	6	From US 77 East to 1.7 Miles East of FM 510 (except C&G)	554	574	18.50	4	148.00	592.00	4	148.00	592.00	
US 281	7	From FM 1732 East to FM 3248	829	836	6.84	4	49.72	198.88	0	0.00	0.00	
FM 1421	8	From US 77 South to US 281	732	739	6.56	4	30.22	120.88	4	30.22	120.88	
FM 1732	9	From US 281 East to US 77 (except C&G)	552	558	4.31	4	26.14	104.56	4	26.14	104.56	
FM 3068	11	From FM 511 South to FM 1419	738	740	1.48	4	6.08	24.32	4	6.08	24.32	
FM 1419	12	From 1 mile East of FM 511 East to SH 4	565	574	8.30	4	80.48	321.92	4	80.48	321.92	
SH 4	13	From FM 511 East to FM 1419	564	566	1.60	4	15.51	62.04	4	15.51	62.04	
SH 48	14	From FM 802 East to SH 100 (Includes Slopes at FM 511 & Center Median Grass Areas)	563	580	17.00	4	65.81	263.24	4	65.81	263.24	
FM 511	15	From SH 48 South to FM 1419	566	573	6.62	4	27.27	109.08	0	0.00	0.00	
FM 1847	16	From FM 106 South to .8 miles South of FM 511 (except C&G)	721	737	12.40	4	117.23	468.92	4	117.23	468.92	
FM 510	17	From FM 803 East to SH 100	558	575	15.60	4	94.54	378.16	4	94.54	378.16	
FM 511	18	From US 77 South to SH 48	556	566	9.65	4	234.00	936.00	4	234.00	936.00	
SH 4	19	From FM 1419 East to End of Pavement	566	583	16.30	4	98.78	395.12	4	98.78	395.12	
FM 802	20	From .4 miles East of SH 48 to .5 miles East of SH 48	565	566	0.08	4	2.82	11.28	0	0.00	0.00	
FM 106	21	From FM 1847 to FM 510			11.93	4	27.20	108.79	0	0.00	0.00	
TOTAL							160.17	1144.64	4,578.55		975.78	3,903.12

SAN BENITO MAINTENANCE

HIGHWAY	TRACT NO.	LIMITS	FROM R.M.	TO R.M.	LENGTH MILES	FULL-WIDTH MOWING			LITTER REMOVAL		
						CYCLES OF FULL-WIDTH MOWING	ACRES PER TRACT FULL-WIDTH MOWING	TOTAL ACRES FULL-WIDTH MOWING	CYCLES OF LITTER REMOVAL	ACRES PER TRACT LITTER REMOVAL	TOTAL ACRES LITTER REMOVAL
US 281	1	From Hidalgo/Cameron County Line East to FM 1732	812	829	16.99	4	121.80	487.20	4	121.80	487.20
SH 345	2	From FM 106 in Rio Hondo South to US 77	722	728	5.75	4	34.88	139.52	0	0.00	0.00
FM 1847	3	From FM 2925 South to FM 106	714	722	7.30	4	44.27	177.08	0	0.00	0.00
FM 510	4	From .5 miles West of BUS 77 East to FM 803	552	559	6.37	4	36.50	146.00	0	0.00	0.00
FM 803	5	From FM 106 South to FM 510	552	559	6.25	4	29.50	118.00	0	0.00	0.00
FM 2925	6	From 3.1 Mi. East of FM 1847 West & South to FM 106	714	729	14.76	4	127.16	508.64	0	0.00	0.00
FM 1561	7	From SH 345 East to FM 803	554	559	4.25	4	25.73	102.92	0	0.00	0.00
FM 1846	8	From FM 106 South to BUS 77	722	730	7.41	4	44.92	179.68	0	0.00	0.00
FM 2520	9	From US 77/83 Expwy South to US 281	728	735	5.49	4	30.26	121.04	0	0.00	0.00
FM 732	10	From BU 77 South to US 281	728	734	6.54	4	36.49	145.96	0	0.00	0.00
FM 509	11	From End of State Maintenance to FM 508	720	730	6.85	4	33.19	132.76	0	0.00	0.00
FM 1577	12	From FM 732 South to US 281	730	736	5.30	4	29.55	118.20	0	0.00	0.00
FM 675	13	From FM 1479 East to FM 2520	542	546	4.14	4	15.04	60.16	0	0.00	0.00
FM 801	14	From US 77/83 Expwy. South to FM 800	723	727	3.27	4	19.14	76.56	0	0.00	0.00
FM 800	15	From FM 2520 to SH 107	540	557	16.27	4	85.05	340.20	0	0.00	0.00
FM 3067	16	From FM 506 East to FM 800	538	541	2.34	4	11.63	46.52	0	0.00	0.00
FM 1479	17	From US 77 South to US 281	724	734	7.41	4	40.40	161.60	0	0.00	0.00
FM 3195	18	From FM 2994 South to US 83 Expwy	722	724	1.64	4	6.17	24.68	0	0.00	0.00
FM 2994	19	From US 77/83 Expwy West to FM 800	540	545	1.73	4	7.98	31.92	0	0.00	0.00
FM 508	20	From US 77 Expwy East to FM 106	544	554	8.98	4	43.54	174.16	0	0.00	0.00
FM 507	21	From Cameron/Willacy County Line South to 1.3 miles South of LP 499	714	724	6.79	4	33.30	133.20	0	0.00	0.00
FM 1599	22	From FM 507 East to Sign "State Maint. Ends"	548	551	2.22	4	16.16	64.64	0	0.00	0.00
FM 1420	23	From Willacy/Cameron County Line South to FM 508	718	723	4.42	4	20.87	83.48	0	0.00	0.00
FM 1595	24	From FM 509 to FM 106	551	554	2.18	4	5.30	21.20	0	0.00	0.00
FM 106	25	From FM 509 to FM 1847	548	565	12.80	4	60.52	242.08	0	0.00	0.00
BUS 83	26	From FM 2556 East to US 83 Expwy	541	545	3.40	4	16.48	65.92	0	0.00	0.00
BUS 77	27	From FM 732 to the Cameron/Willacy County Line	565	579	4.31	4	23.50	94.00	4	23.50	94.00
FM 3462	28	From SH 345 to FM 510	726	728	1.47	4	10.68	42.72	0	0.00	0.00
SH 107	29	From BUS 77 to FM 800	547	551	3.23	4	19.61	78.44	4	19.61	78.44
FM 506	30	From SH 107 to US 83 Expwy	722	729	5.65	4	28.06	112.24	4	28.06	112.24
SH 107	31	From Cameron/Hidalgo County Line East to FM 800 (Except urban area in Santa Rosa)	542	547	4.20	4	25.42	101.68	0	0.00	0.00
FM 2556	32	From FM 506 to US 281	716	734	16.64	4	100.86	403.44	0	0.00	0.00
FM 506	33	From Willacy/Cameron County Line South to SH 107	716	722	5.78	4	22.42	89.68	0	0.00	0.00
FM 506	34	From End of C&G in La Feria South to US 281	729	735	5.02	4	23.12	92.48	0	0.00	0.00
FM 733	35	From BU 83 North to end of State Maintenance	722	726	2.71	4	9.19	36.76	0	0.00	0.00
TOTAL					219.86		1,238.69	4,954.76		192.97	771.88

SAN BENITO MAINTENANCE DRAIN DITCHES

HIGHWAY	TRACT NO.	LIMITS	AVERAGE WIDTH (FT)	LENGTH (FT)	FULL-WIDTH MOWING			LITTER REMOVAL		
					CYCLES OF FULL-WIDTH MOWING	ACRES PER TRACT FULL-WIDTH MOWING	TOTAL ACRES FULL-WIDTH MOWING	CYCLES OF LITTER REMOVAL	ACRES PER TRACT LITTER REMOVAL	TOTAL ACRES LITTER REMOVAL
FM 506	36	From Levee to Arroyo Colorado South of South Arroyo Rd.	41	1,300	4	2.45	9.79	0	0.00	0.00
SP 54	37	From US 83 to Osborn Avenue West of Lewis Lane	41	2,630	4	4.95	19.80	0	0.00	0.00
US 77	38	From US 77/83 to Arroyo Colorado West of "M" Street	58	6,720	4	17.69	70.74	0	0.00	0.00
US 77/83	39	From South of FM 732	20	2,146	4	1.97	7.88	0	0.00	0.00
TOTAL						27.06	108.22		0.00	0.00

Contractor shall receive TXDOT approval of drain ditches to be mowed under the respective cycle.

WILLACY COUNTY RAYMONDVILLE MAINTENANCE

HIGHWAY	TRACT NO.	LIMITS	FROM R.M.	TO R.M.	LENGTH MILES	FULL-WIDTH MOWING			LITTER REMOVAL		
						CYCLES OF FULL-WIDTH MOWING	ACRES PER TRACT FULL-WIDTH MOWING	TOTAL ACRES FULL-WIDTH MOWING	CYCLES OF LITTER REMOVAL	ACRES PER TRACT LITTER REMOVAL	TOTAL ACRES LITTER REMOVAL
SH 186	1	From the Willacy/Hidalgo County Line East to FM 606	528	567	38.40	4	346.00	1,384.00	4	346.00	1,384.00
BU 77W	2	From US 77 (N. of Raymondville) South to Willacy/Cameron County Line	544	558	11.53	4	54.00	216.00	4	54.00	216.00
FM 1015	3	From SH 186 South to Willacy/Hidalgo County Line	702	706	2.60	4	13.00	52.00	4	13.00	52.00
FM 3168	4	From BU77W East to US 77	540	541	1.50	4	12.00	48.00	4	12.00	48.00
SP 56	5	From BU77W East to US 77	540	541	0.25	4	3.00	12.00	0	0.00	0.00
SP 413	6	From BU77W East to US 77	640	641	0.40	4	3.00	12.00	4	3.00	12.00
SP 112	7	From BU77W East to US 77	540	541	0.35	4	2.00	8.00	4	2.00	8.00
FM 498	8	From BU77W East to FM 1420	538	550	11.80	4	46.00	184.00	0	0.00	0.00
FM 491	9	From Hidalgo/Willacy County Line East to BU77W	710	715	4.70	4	23.00	92.00	0	0.00	0.00
FM 506	10	From BU77W West to FM 2629	714	716	1.70	4	8.00	32.00	0	0.00	0.00
FM 1425	11	From SH 186 South to County Line	704	714	9.30	4	105.00	420.00	0	0.00	0.00
FM 88	12	From SH 186 South to Willacy/Hidalgo County Line	704	708	3.00	4	21.80	87.20	0	0.00	0.00
FM 1018	13	From BU77W East to FM 1420	540	553	13.00	4	85.00	340.00	0	0.00	0.00
FM 1921	14	From Hidalgo/Willacy County Line East to BU77W	538	543	4.40	4	33.00	132.00	0	0.00	0.00
FM 1834	15	From SH 186 South to FM 490	704	706	2.00	4	14.50	58.00	0	0.00	0.00
FM 2845	16	From FM 490 South to FM 2629	706	714	7.50	4	59.30	237.20	0	0.00	0.00
FM 1761	17	From BU77W West and South to SH 186	736	743	7.00	4	35.60	142.40	0	0.00	0.00
FM 2209	18	From SH 186 North and West to End of State Maintenance	698	705	6.60	4	44.80	179.20	0	0.00	0.00
FM 3142	19	From FM 2209 East and South to SH 186	548	552	3.20	4	23.20	92.80	0	0.00	0.00
FM 490	20	From Willacy/Hidalgo County Line East to FM 1420	530	554	24.00	4	160.60	642.40	0	0.00	0.00
FM 2629	21	From US 77 East to FM 507	542	551	10.70	4	77.80	311.20	0	0.00	0.00
FM 1420	22	From SH 186 South to Willacy/Cameron County Line	704	718	13.60	4	85.70	342.80	0	0.00	0.00
FM 1762	23	From End of State Maintenance West of BU 77W East to End of State Maintenance	540	548	6.60	4	43.20	172.80	0	0.00	0.00
FM 507	24	From FM 498 South to Willacy/Cameron County Line	708	714	5.80	4	39.00	156.00	0	0.00	0.00
FM 2099	25	From SH 186 South to FM 1018	704	714	8.70	4	56.90	227.60	0	0.00	0.00
FM 2629	26	From FM 506 and Willacy/Hidalgo County Line	538	541	2.70	4	13.09	52.36	0	0.00	0.00
TOTAL					201.33		1408.49	5,633.96		430.00	1,720.00

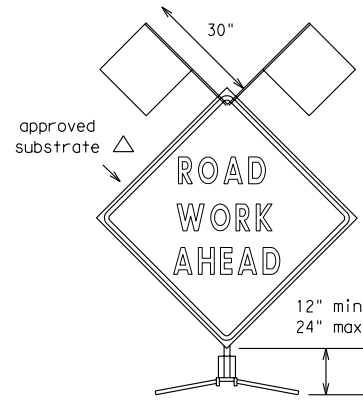
Note: The warning signs will be adjusted as the work progresses to keep them in reasonable proximity of the work area. "Mowers Ahead" sign is intended for use in advance of mowing operations on the right-of-way.

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	

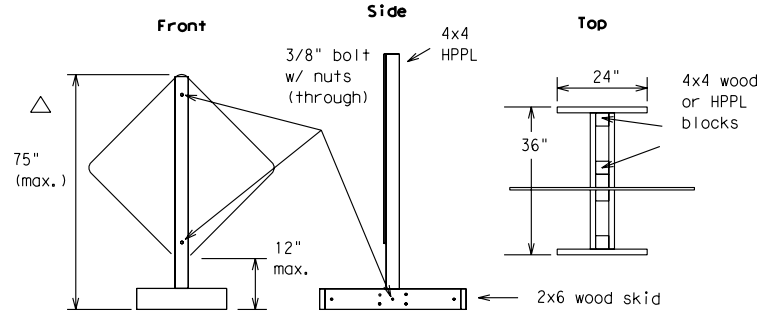
EXAMPLES OF SIGN SUPPORTS

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

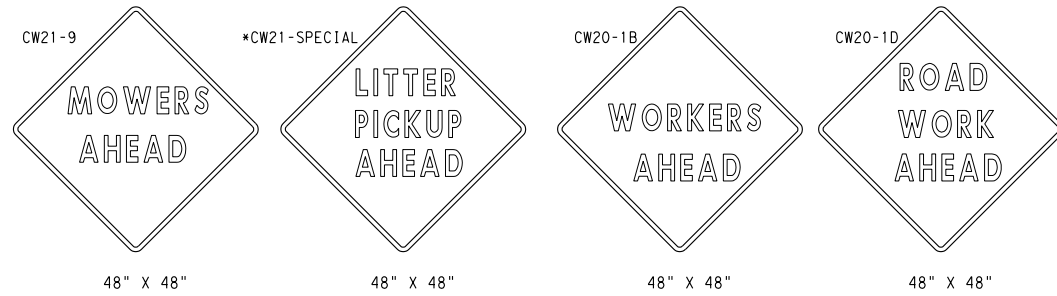


The upright SHALL be made of hollow-profile plastic lumber (HPPL). Wood or metal shall NOT be used.

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.



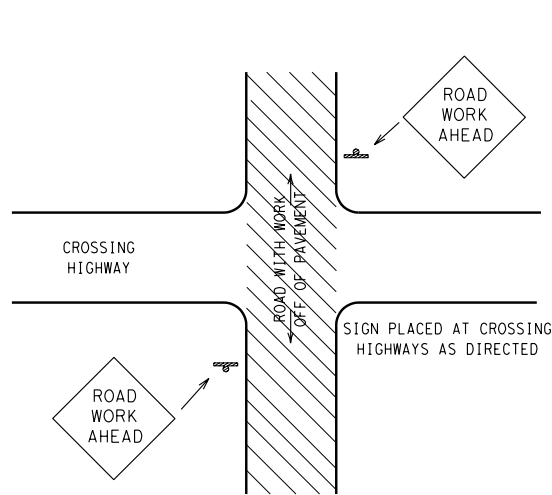
SIGN IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS

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

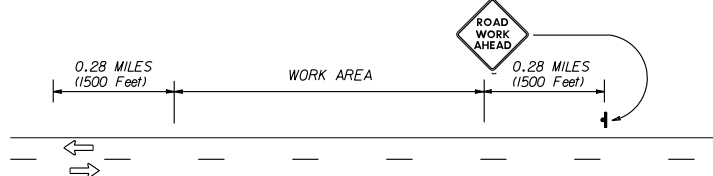
WORK AREA IS A MAXIMUM OF 2.0 MILES UNLESS OTHERWISE DIRECTED. SIGNS MAY REMAIN IN PLACE ONLY DURING DAYLIGHT HOURS.

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

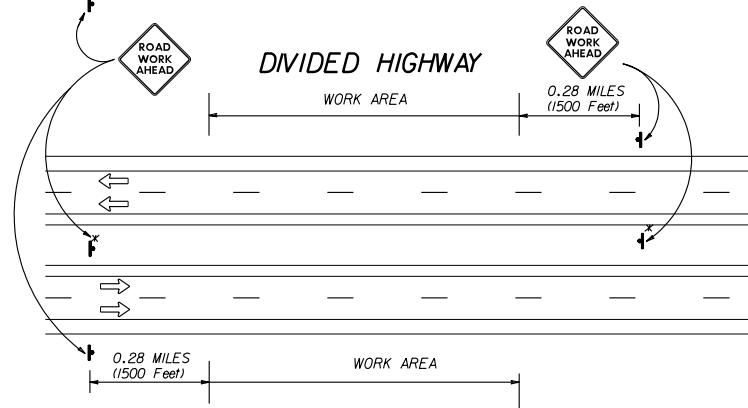
ROAD WORK AHEAD SIGNS SHOWN AS EXAMPLES, ONE OF THE FOUR TYPE SIGNS WILL BE USED AS DIRECTED.

* 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 VI)

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

SIGN SUBSTRATES

- The Contractor shall ensure that the sign substrate is allowed for the type of sign support that is being used. The CWZTCD lists each substrate that can be used on the different types and models of sign supports.
- "Mesh" type materials are NOT an approved sign substrate.
- All wooden individual sign panels fabricated from 2 or more pieces shall have one or more plywood cleat, 1/2" thick by 6" wide, fastened to the back of the sign and extending fully across the sign. The cleat shall be attached to the back of the sign using wood screws 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	DWG: LJB	CHK: JG	DATE: -	CK2: -	NEG NO.:
© TxDOT FEBRUARY 2005		STATE DISTRICT	FEDERAL REGION	FEDERAL AID PROJECT	
REVISED: September 17, 2004		N/A	N/A	N/A	
REVISED: FEBRUARY 2, 2005 Sign placement in TCP		COUNTY	CONTROL SECTION	JOB	HIGHWAY
REVISED:		N/A	N/A	N/A	N/A