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SHEET NO.

DESCRIPTION

GENERAL

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2	INDEX OF SHEETS
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9-11 GENERAL NOTES

12-12A ESTIMATE & QUANTITY SHEET

13-141 PROJECT DATA & BASIS OF ESTIMATE

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TRAFFIC	
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	STANDARD SHEETS
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166	PM(2)-20
167	PM(3)-20
168	PM(4)-22
169	RCD(1)-16
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172	RS(2)-13
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174	RS(4)-13
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204-205 RAILROAD REQUIREMENTS FOR NON-BRIDGE CONSTRUCTION PROJECTS

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176	ENVIRONMENTAL PERMITS
	RAILROAD
	STANDARD SHEETS

177-203 RAILROAD SCOPE OF WORK

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



08/01/2022

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ſ	CONT.	SECT.	JOB	HIGHWAY NO.	
ſ	0025	05	024, ETC	UA 90, ETC	
ſ	STATE DIST.		COUNTY	SHEET NO.	
	TEXAS	YKM	GONZALES, ETC	2	

				YOAKUM AREA OFFICE PROJECT SUMMARY				
No.	CSJ	HIGHWAY	COUNTY	LIMITS	LENGTH (MI.)	TI BEGIN	RM END	ADT
1	0025-05-024	UA 90	GONZALES	FROM SH 80 TO 0.25 MI E OF CR 143	6.210	540+0.527	546+0.761	3428
2	0025-06-057	UA 90	GONZALES	FROM 0.25 MI E OF CR 143 TO GONZALES C-L	7.487	546+0.761	554+0.270	4929
3	0287-03-037	SH 80	GONZALES	FROM US 90A TO 0.155 MI S OF CR 104	7.081	500+1.995	508+1.907	2453
4	0287-04-039	SH 80	GONZALES	FROM 0.155 MI S OF CR 104 TO 2.1 MI N OF SH 97	4.510	508+1.907	514+0.465	1883
5	0584-01-002	PR 11	GONZALES	FROM US 183 TO FM 1586	1.964	084-0.033	084+1.931	471
6	0687-01-015	** FM 77	GONZALES	FROM US 87 TO FM 108	8.418	538-0.030	546+0.439	193
7	0211-09-035	FM 155	FAYETTE	FROM US 77 TO COLORADO C/L	14.345	466-0.035	482+0.019	2115
8	0268-01-058	US 77	FAYETTE	FROM 1.50 MI SOUTH OF FM 155 TO 0.60 MI SOUTH OF FM 2436	3.310	498+1.954	502+1.249	6193
9	0268-02-037	US 77	FAYETTE	FROM 0.60 MI SOUTH OF FM 2436 TO SCHULENBURG C-L	9.022	502+1.249	512+0.270	5866
*10	0334-07-007	** FM 448	FAYETTE	FROM LEE C/L TO FM 153	3.413	454+0.091	456+1.507	446
11	0416-01-002	SS 92	FAYETTE	FROM US 77 TO END OF MAINTENANCE	0.310	588-0.285	588+0.025	871
12	1262-01-017	FM 1115	FAYETTE	FROM SH 95 TO GONZALES C/L	6.676	470-0.008	478+0.005	487
*13	1264-01-016	FM 955	FAYETTE	FROM SH 159 TO SH 71	4.658	464-0.024	468+0.663	1884
14	2348-01-007	** FM 2436	FAYETTE	FROM FM 609 TO US 77	1.942	586+0.000	586+1.942	1606
15	2382-01-005	** FM 2503	FAYETTE	FROM FM 1291 TO SH 71	6.121	464-0.016	470+0.136	882
16	0269-03-039	UA 77	LAVACA	FROM US 90A TO MUSTANG CREEK	4.374	498+1.371	504+0.397	2596
17	0269-04-040	UA 77	LAVACA	FROM MUSTANG CREEK TO SH 95	6.205	504+0.397	510+0.600	3173
18	0346-06-054	SH 111	LAVACA	FROM DEWITT C/L TO JACKSON C/L	21.534	520+0.012	540+1.853	5624
*19	0346-11-009	SH 111	DEWITT	FROM S KENNEDY ST TO LAVACA C/L	0.194	519+0.217	520+0.012	5026
20	0941-03-111	FM 237	DEWITT	FROM US 183 TO VICTORIA C/L	4.889	564+0.316	570+0.011	1680
21	3012-01-008	** FM 2980	DEWITT	FROM END OF STATE MAINTENANCE TO SH 72	3.179	526+0.000	528+1.186	1022
22	3012-02-006	** FM 2980	DEWITT	FROM SH 72 TO END OF STATE MAINTENANCE	2.565	528+1.224	532+0.027	168
					-			
	I I			SHEET TOTAL:	128,407		I	<u> </u>

* PROJECT WITH RAILROAD COORDINATION REQUIRED.

** STATE FUNDED

ALL PROJECTS HAVE EXISTING RAISED REFLECTIVE PAVEMENT MARKERS TO BE REMOVED BY CONTRACTOR.

PROJECT SUMMARY



C2022 BY TEXAS DEpartment of Transportation ALL RIGHTS RESERVED
SHEET 1 OF SHEET 1 OF 3

FED DIV	. RD.	PROJECT NO.		
	6			
CONT.	SECT.	JOB	HIGHWAY NO.	
0025	05	024, ETC	UA 90, ETC	
STATE	DIST.	COUNTY	SHEET NO.	
TEXAS	YKM	GONZALES, ETC	3	



				WHARTON AREA OFFICE PROJECT SUMMARY				
No.	CSJ	HIGHWAY	COUNTY	LIMITS	LENGTH (MI.)	TR BEGIN	RM END	ADT
*23	0026-04-049	US 90	COLORADO	FROM FAYETTE C/L TO CR 210	6.492	740+0.797	748+0.504	4407
*24	0026-06-037	US 90	COLORADO	FROM FM 2434 TO FM 806	1.687	754+1.256	756+0.946	6103
* 25	0027-01-048	US 90	COLORADO	FROM 0.75 MI EAST OF BS 71F TO IH 10	2.005	758+0.704	760+1.573	4523
26	2349-01-009	FM 2437	COLORADO	FROM US 90A TO LAVACA C/L	2.990	502-0.017	506+0.001	632
* 27	3205-03-014	FM 3013	COLORADO	FROM US 90A TO WHARTON C/L	5.606	488+1.198	496+0.004	2874
* 28	0187-03-074	SH 36	AUSTIN	FROM FM 1094 TO 1500' SOUTH OF SL 350	0.765	606+0 . 904	606+1.764	16208
29	0271-18-004	FM 3538	AUSTIN	FROM 0.125 MI SOUTH OF IH 10 TO FM 3013	3.206	472+0.259	474+1.468	2182
30	1721-02-013	FM 1094	AUSTIN	FROM 586' WEST OF SCHLUENS RD TO 1091' WEST OF FM 2187	5.262	626+1.043	632+0.317	2065
* 31	2894-01-014	** FM 2187	AUSTIN	FROM FM 949 TO SH 36	11.876	468+0.000	478+1.923	2189
32	0266-05-053	SH 71	WHARTON	FROM FM 961 TO FM 1300	5.368	696+0.195	700+1.613	5844
* 33	0266-06-049	SH 71	WHARTON	FROM BU 59S TO MATAGORDA C/L	10.107	704+1.028	718+0.566	9977
34	0709-02-057	FM 102	WHARTON	FROM COLORADO C/L TO FM 960	12.852	498+0.001	510+0.870	2590
* 35	1302-02-014	** FM 647	WHARTON	FROM SL 523 TO END OF MAINTENANCE	4.492	520-0.950	522+1.731	170
36	1412-03-042	FM 1301	WHARTON	FROM 475 FT N OF N ALABAMA RD TO FM 442	9.821	636+0.668	646+0.527	15990
* 37	3014-02-005	** FM 647	WHARTON	FROM END OF MAINENANCE TO SL 523	2.436	516-0.040	518+0.404	348
38	3205-04-007	FM 3013	WHARTON	FROM COLORADO C/L TO FM 102	0.708	496+0.004	496+0.712	999
* 39	0241-04-024	SH 60	MATAGORDA	FROM FM 521 TO 1.207 MI S OF FM 521	1.003	544+0.782	544+1.785	1719
* 40	0241-05-013	SH 60	MATAGORDA	FROM 1.207 MI S OF FM 521 TO FM 2031	7.822	544+1.785	552+1.635	1719
* 41	0847-04-008	** FM 2078	MATAGORDA	FROM FM 2668 TO SH 60	2.357	646-0.043	648+0.349	369
* 42	1321-01-023	FM 1095	MATAGORDA	FROM SH 35 TO FM 521	8.241	532-0.026	540+0.253	661
* 43	2697-01-036	FM 2668	MATAGORDA	FROM FM 3057 TO FM 521	5.108	532+0.631	536+1.752	560
* 44	3087-01-009	FM 3057	MATAGORDA	FROM END OF MAINENANCE TO FM 2668	2.386	646-0.413	648+0.008	802
				SHEET TOTAL	• 112 500			

PROJECT WITH RAILROAD COORDINATION REQUIRED
 ** STATE FUNDED

ALL PROJECTS HAVE EXISTING RAISED REFLECTIVE PAVEMENT MARKERS TO BE REMOVED BY CONTRACTOR.

PROJECT SUMMARY



C2022 BY TEXAS DEpartment of Transportation ALL RIGHTS RESERVED SHEET 2 OF 3

FED DIV	. RD. . NO.	PROJECT NO.		
(5			
CONT.	SECT.	JOB	HIGHWAY NO.	
0025	05	024, ETC	UA 90, ETC	
STATE	DIST.	COUNTY	SHEET NO.	
TEXAS	YKM	GONZALES, ETC	4	



				VICTORIA AREA OFFICE PROJECT SUMMARY				
No.	CSJ	HIGHWAY	COUNTY	LIMITS	LENGTH (MI.)	TF BEGIN	RM END	ADT
* 45	0088-06-006	BU 59T	VICTORIA	FROM GUADALUPE RIVER TO N OF US 59	4.861	638+1.080	642+2.008	13511
* 46	0371-01-092	BU 77S	VICTORIA	FROM BU 59T TO US 59 N FRONT RD	3.410	582+0.051	584+1.588	1839
47	1698-01-024	FM 1685	VICTORIA	FROM FM 236 TO BU 59T	6.418	576-0.017	582+0.585	1388
* 48	2601-01-016	FM 2615	VICTORIA	FROM US 87 TO FM 1686	5.736	588-0.038	592+1.758	568
* 49	0497-02-044	FM 616	JACKSON	FROM FM 234 TO FM 1593	4.069	712+0.316	716+0,805	2856
* 50	0497-03-011	FM 616	JACKSON	FROM WEST CARANCAHUA CREEK TO MATAGORDA C/L	6.019	724+0.891	730+0.941	779
51	0515-01-072	** FM 234	JACKSON	FROM CR 112(LOST BRIDGE RD) TO US 59 N FRT RD(EL TORO)	3.267	538+0.314	540+1.588	209
52	0671-01-004	** FM 3280	JACKSON	FROM SH 35 TO CALHOUN C/L	2.999	544-0.066	546+0.996	215
* 53	1090-01-028	FM 530	JACKSON	FROM CR 274 TO US 59	8.418	528+0.740	536+1.227	369
* 54	1945-01-023	FM 1822	JACKSON	FROM SL 521 TO FM 3131	7.577	526-0.013	532+1.578	3501
55	0420-08-009	** SS 159	CALHOUN	FROM SH 172 TO END OF STATE MAINTENANCE	2.296	618-0.013	620+0.300	514
56	0671-02-004	** FM 3280	CALHOUN	FROM JACKSON C/L TO END OF STATE MAINTENANCE	1.997	546+0.996	550+0.000	60
57	2016-01-013	FM 2143	CALHOUN	FROM SH 35 TO SH 172	4.551	614-0.015	618+0.585	1150
58	2714-01-005	** FM 2717	CALHOUN	FROM END OF STATE MAINTENANCE TO SH 316	3.466	556-0.004	558+1.509	450
59	3171-01-011	FM 3084	CALHOUN	FROM FM 1090 TO INDEPENDENCE DRIVE	3.776	552-0.035	554+1.784	1441
								<u> </u>
				SHEET TOTAL:	68,860			

* PROJECT WITH RAILROAD COORDINATION REQUIRED.

** STATE FUNDED

ALL PROJECTS HAVE EXISTING RAISED REFLECTIVE PAVEMENT MARKERS TO BE REMOVED BY CONTRACTOR.

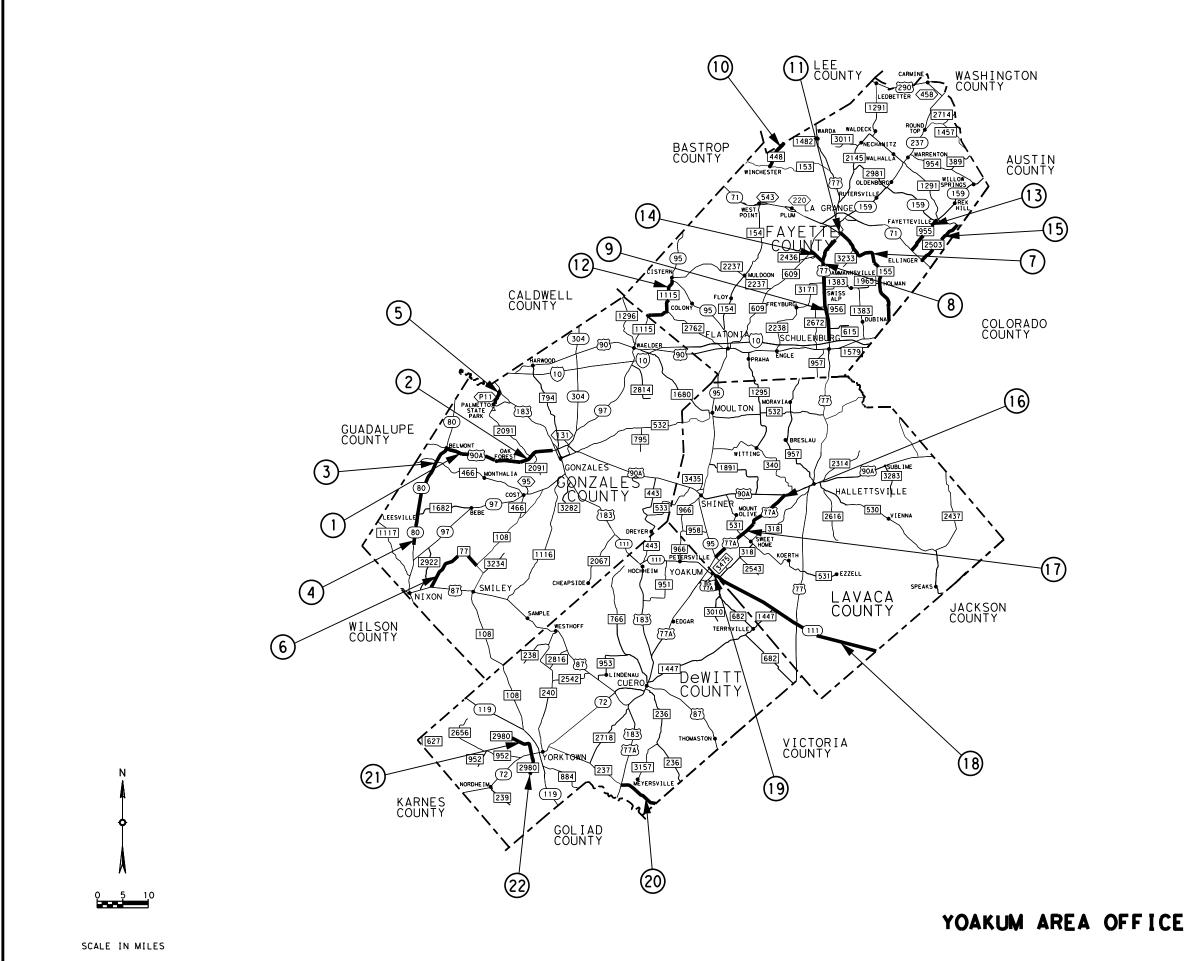
PROJECT SUMMARY



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FED DIV	. RD. . NO.	PROJECT	NO.
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CONT.	SECT.	JOB	HIGHWAY NO.
0025	05	024, ETC	UA 90, ETC
STATE	DIST.	COUNTY	SHEET NO.
TEXAS	YKM	GONZALES, ETC	5





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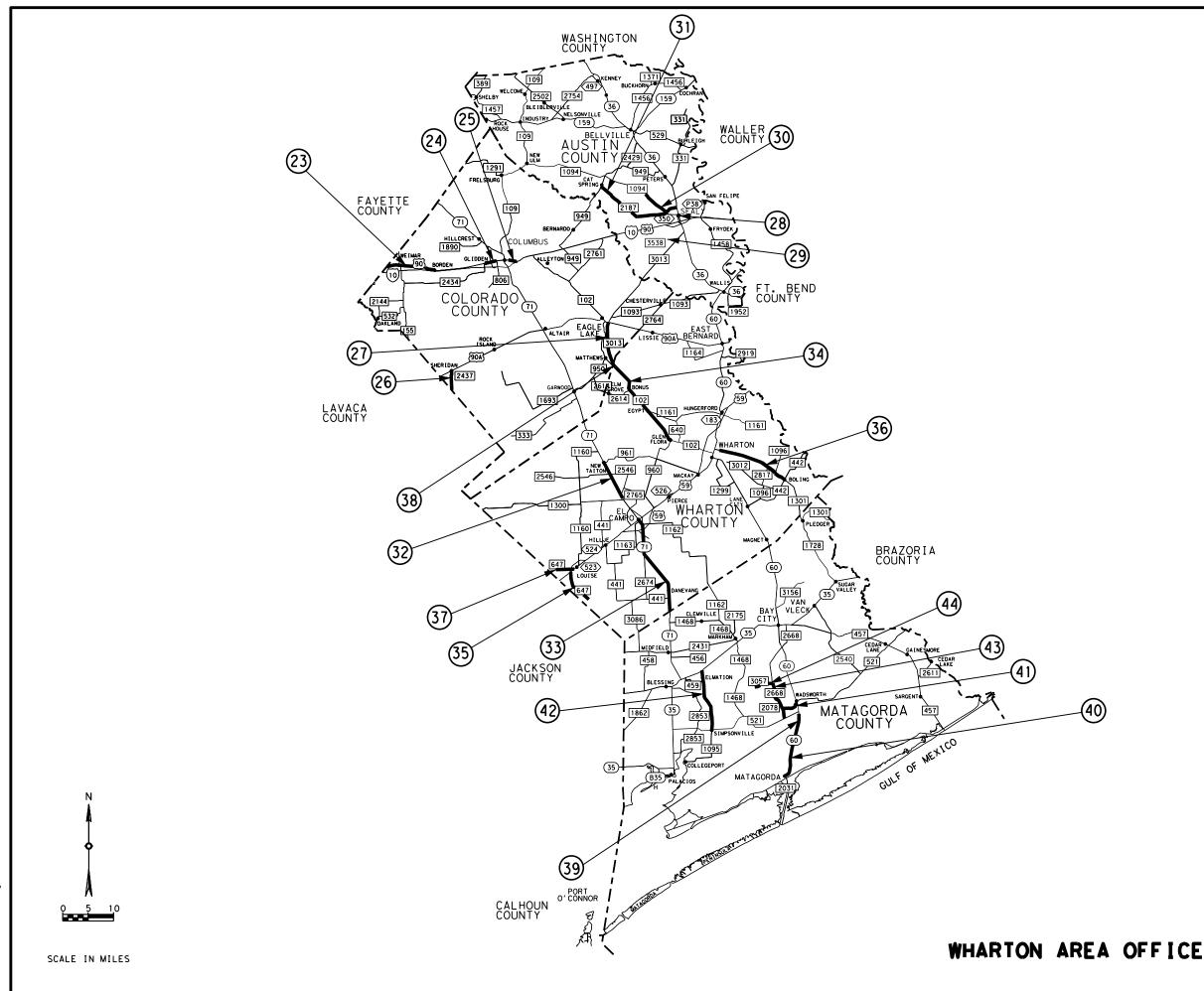


08/01/2022

LOCATION MAP



FED DIV	. RD. . NO.	PROJECT	NO.
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CONT.	SECT.	JOB	HIGHWAY NO.
0025	05	024, ETC	UA 90, ETC
STATE	DIST.	COUNTY	SHEET NO.
TEXAS	YKM	GONZALES, ETC	6



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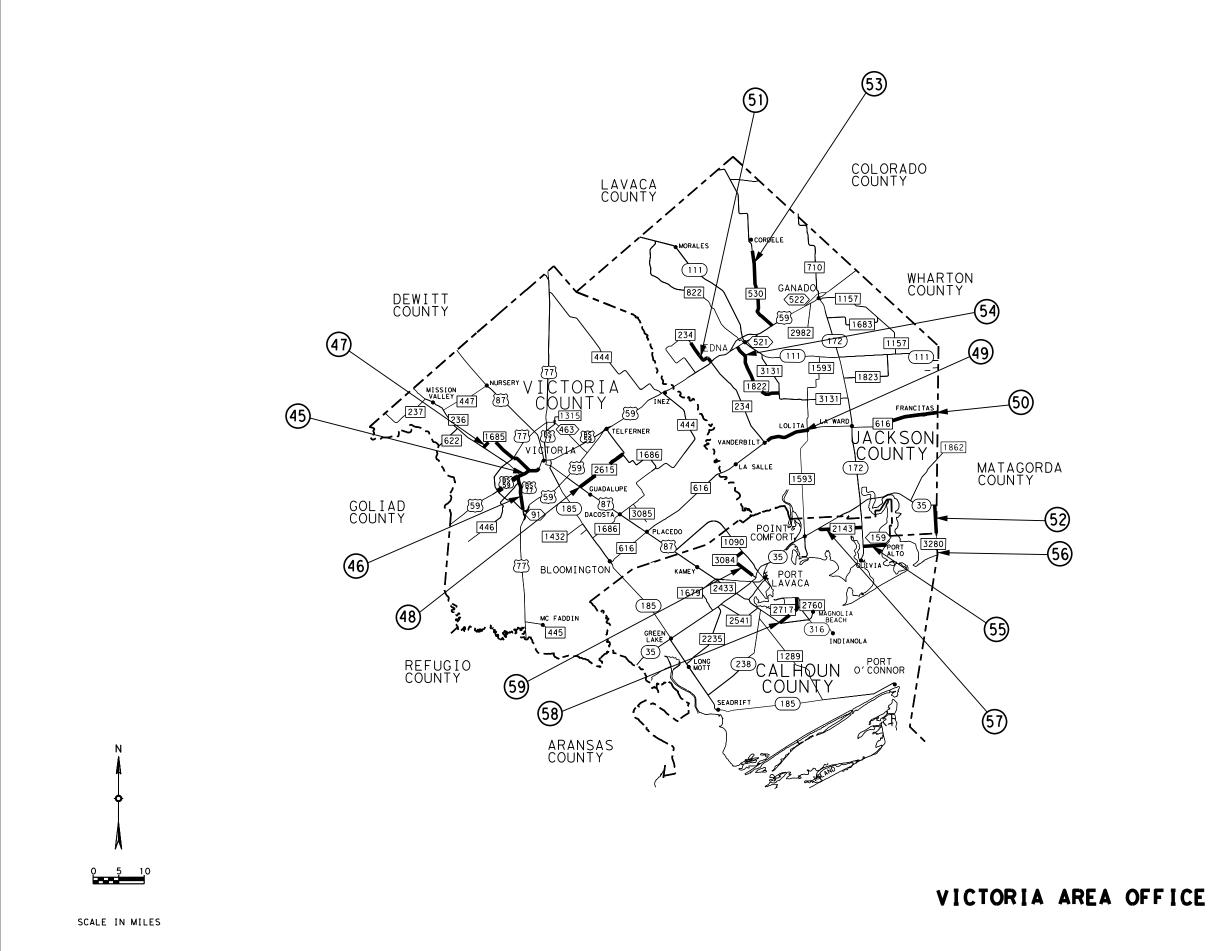
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08/01/2022

LOCATION MAP



FED	. RD. NO.	PROJECT	NO.
(5		
CONT.	SECT.	JOB	HIGHWAY NO.
0025	05	024, ETC	UA 90, ETC
STATE	DIST.	COUNTY	SHEET NO.
TEXAS	YKM	GONZALES, ETC	7





08/01/2022

LOCATION MAP



FED DIV	. RD. . NO.	PROJECT	NO.
(6		
CONT.	SECT.	JOB	HIGHWAY NO.
0025	05	024, ETC	UA 90, ETC
STATE	DIST.	COUNTY	SHEET NO.
TEXAS	YKM	GONZALES, ETC	8

County: GONZALES, ETC

Highway: UA 90, ETC

GENERAL:

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

Clayton HarrisClayton.Harris@txdot.govJames JanakJames.Janak@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.

I. UNION PACIFIC RAILROAD COMPANY

PROTECTION OF FIBER OPTIC CABLE SYSTEMS

Fiber optic cable systems may be buried on the railroad's property. Protection of the fiber optic cable systems is of extreme importance since any break could disrupt service to users resulting in business interruption and loss of revenue and profits. The state and/or its contractor shall telephone the railroad during normal business hours (7:00 a.m. to 9:00 p.m., central time, Monday through Friday, except holidays) at 1-800-336-9193 (also a 24-hour, seven-day number for emergency calls) to determine if fiber optic cable is buried on the railroad's premises to be used by the state. If it is, the state and/or its contractor will telephone the telecommunications company(ies) involved, arrange for a cable locator and make arrangements for relocation or other protection of the fiber optic cable prior to beginning any work on the railroad's premises.

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

II. BURLINGTON NORTHERN AND SANTA FE RAILWAY COMPANY

PROTECTION OF FIBER OPTIC CABLE SYSTEMS

The state and/or its contractor shall, five working days before any work is performed, call the railroad's communications network control center at 1-800-533-2891 (a 24-hour number) to assist in determining if fiber optic communications, control systems, or other type of cable systems are buried in the general locations where work is to be performed. In the event such cable is present, the state and/or its contractor shall then call the owner of the cable line to determine its exact location. The contractor shall indemnify and hold harmless the railroad against any cost or claims arising out of damage to any fiber optic communications, control systems or other types of cable systems, but only to the extent such damage is caused by negligence of the contractor.

III. KANSAS CITY SOUTHERN RAILWAY COMPANY

Fiber optic cable systems may be buried on the railroad's property. Protection of the fiber optic cable system is of extreme importance since any break could disrupt service to users resulting in business interruption and loss of revenue and profits. The state and/or its contractor shall telephone Texas One Call at 1-800-344-8377 (a 24-hour number) to determine if fiber optic cable is buried anywhere on the railroad's premises to be used by the state. If it is, the state and/or its contractor will telephone the telecommunications company(ies) involved, arrange for a cable locator, and make arrangements for relocation or other protection of the fiber optic cable prior to beginning any work on the railroad premise.

IV. UNIVERSAL TEXAS

Fiber optic cable systems may be buried on the railroad's property. Protection of the fiber optic cable systems is of extreme importance since any break could disrupt service to users resulting in business interruption and loss of revenue and profits. The state and/or its contractor shall telephone Texas One Call at 1-800-545-6005 (a 24-hour number) to determine if fiber optic cable is buried anywhere on the railroad's premises to be used by the state. If it is, the state and/or its contractor will telephone the telecommunications company(ies) involved, arrange for a cable locator, and make arrangements for relocation or other protection of the fiber optic cable prior to beginning any work on the railroad's premises.

Remove and dispose of existing raised pavement markers as directed. All work involved in the removal and disposal of these markers will not be paid for directly but shall be considered subsidiary to the various bid items involved.

Do not work on the roadway before sunrise or after sunset unless otherwise approved.

Leave all traffic lanes open to traffic at night, weekends and holidays unless otherwise approved.

Sheet: 9

Control: 0025-05-024, ETC

County: GONZALES, ETC

Highway: UA 90, ETC

Furnish a certified copy of the legal gross weight of each vehicle hauling materials by weight and certified measurements for all trucks hauling material by volume.

Do not cross the median except at existing crossovers.

Unless otherwise approved, maintain a minimum safety clearance from the edge of the travelway for material stockpiled in proximity of traffic lanes based on the current average traffic count of the particular highway as follows:

> 0 - 1500 = 16 feet Over 1500 = 30 feet

In the event the above requirements cannot be met, make arrangements to stockpile material off the right of way.

ITEM 7: LEGAL RELATIONS AND RESPONSIBILITIES

No significant traffic generator events identified.

ITEM 8: PROSECUTION AND PROGRESS

The latest work-start date is June 1, 2023.

Provide progress schedule as a Bar Chart.

ITEM 302: AGGREGATES FOR SURFACE TREATMENTS

Furnish Type PE aggregate consisting of crushed slag, crushed stone or natural limestone rock asphalt.

Furnish precoated aggregate that has a residual bitumen coating target value of 1.0% by weight.

ITEM 316: SEAL COAT

The asphalt application season for this project is May 1 to September 15.

Asphalt binders allowed for ASPH(TIER I) are AC-20XP or AC-20-5TR or SPG-79-13. Asphalt binders allowed for ASPH(TIER II) are AC-20XP or SPG-79-13.

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

Remove daily excess aggregate in developed or curb and gutter sections with a pickup broom or other method as approved and dispose of at an approved site.

Calibrate spray bars in accordance with Test Method TEX-922-K, Part III, prior to beginning seal coat.

In addition to other asphalt distributor requirements, the asphalt distributor shall be capable of providing a transversely varied asphalt rate. The Contractor shall demonstrate that the distributor can apply an asphalt rate outside of the wheel path locations between 22 and 32 percent higher than the asphalt rate being applied in the wheelpaths for the nozzle arrangement determined by the Engineer. The Contractor's calibration of the distributor will include verification of this capability and a description of the spray bar(s) and nozzles being used. The percentage difference in asphalt rate provided by each tested spray bar shall be provided to the Engineer. The Engineer will select the pavements where the transversely varied asphalt rate is to be provided.

Seal additional roadway widened areas at bridges, curves, etc., shoulder tapers, mailbox turnouts, and historical markers. Payment for these quantities will be included with the appropriate items all as directed.

Use a patch truck and crew behind the aggregate spreader box as directed.

Use two paper widths covering a minimum of five feet at the beginning of each shot to construct a straight transverse joint and to prevent overlapping of the asphalt.

ITEM 502: BARRICADES, SIGNS, AND TRAFFIC HANDLING

The Contractor Force Account "Safety Contingency" that has been established for this project is intended to be utilized for work zone enhancements, to improve the effectiveness of the Traffic Control Plan, that could not be foreseen in the project planning and design stage. These enhancements will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent traffic management reviews on the project. The Engineer may choose to use existing bid items if it does not slow the implementation of enhancement.

Law enforcement assistance for this project will be required, as approved, for major traffic control changes and lane closures. Coordinate with local law enforcement and arrange for law enforcement in a marked vehicle as approved by the Engineer. Complete the daily tracking form provided by the department, including all signatures, and submit invoices that agree with the tracking form for payment at the end of each month approved services were provided.

Provide trail and lead vehicles when using TCP(3-1), TCP(3-2) or TCP(3-3).

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Control: 0025-05-024, ETC

County: GONZALES, ETC

Highway: UA 90, ETC

Utilize TCP(3-3) for sweeping operations or for installing and removing tabs or raised pavement markers.

Provide suitable warning lights mounted high enough to be visible from all directions on all construction equipment, including pilot vehicles, and operate warning lights when the equipment is within the right of way. Equip other equipment such as trucks, trailers, autos, etc., with emergency flashers and use emergency flashers while within the work area.

Barricades and warning signs are to remain in place until final markings are complete.

No additional payment will be made for relocating existing sign assemblies to temporary mounts.

Maintain a minimum distance of two (2) miles between work areas.

Limit lane closure lengths for seal coat operations to two (2) miles on two lane, two-way highways with ADT volumes greater than 1000, and three (3) miles on two lane, two-way highways with ADT volumes less than 1000, and on four lane highways. The lane closure length will be determined during construction in urban areas.

Signs warning of temporary conditions, such as "NO CENTER LINE," "LOOSE GRAVEL," etc., shall only be displayed when conditions are present. Remove or completely cover signs that do not apply to the roadway conditions. These signs may be installed prior to beginning work but shall remain completely covered until the signs are applicable.

In accordance with Article 502.4.2, no payment will be made for the month if the contractor fails to provide or properly maintain signs in compliance with the contract requirements. Temporary warning signs that are visible when conditions do not apply will be considered improper maintenance of signs.

ITEM 506: TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL CONTROLS

The storm water pollution prevention plan (SW3P) for this project will consist of utilizing existing vegetation. The disturbed area is less than one acre and use of erosion control measures is not anticipated. If physical conditions encountered at the job site require necessary controls, BMP installation, maintenance, and removal will be paid as extra work on a force account basis per Articles 4.4 and 9.7.

ITEM 662: WORK ZONE PAVEMENT MARKINGS

T-Tabs will not be allowed on this project.

Sheet: 11

Control: 0025-05-024, ETC

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

Remove the exposed portions of the temporary flexible reflective roadway marker tabs after raised pavement markers are installed. If the tabs are not in line with the markings, remove the tabs immediately after the centerline markings are installed.

ITEM 666: REFLECTORIZED PAVEMENT MARKINGS

Remove all applied markings that are not in alignment or sequence as stated in the plans using the Surface Treatment Method.

Provide Type I pavement markings in accordance with this item. The requirements of this item are supplemented with the following provision: Place Type I pavement markings with a ribbon-gun application. All other provisions remain in effect.

Retroreflectivity testing is required for all profile striping.

ITEM 668: PREFABRICATED PAVEMENT MARKINGS

Pavement marking material may be placed on roadways at any time during the year, subject to temperature and moisture limitations specified.

ITEM 6185: TRUCK MOUNTED ATTENUATOR (TMA) AND TRAILER ATTENUATOR (TA)

Shadow vehicle(s) with TMA are set up for stationary and/or mobile operations. The contractor will be responsible for determining if operations will be ongoing at the same time to determine the total number of TMAs needed for the project.



CONTROLLING PROJECT ID 0025-05-024

DISTRICT Yoakum

HIGHWAY BU 59T, BU 77S, FM 102, FM 1094, FM 1095, FM 1115, FM 1301, FM 155, FM 1685, FM 1822, FM 2078, FM 2143, FM 2187, FM 234, FM 237, FM 2436, FM 2437, FM 2503, FM 2615, FM 2668, FM 2717, FM 2980, FM 3013, FM 3057, FM 3084, FM 3280, FM 3538, FM 448, FM 530, FM 616, FM 647, FM 77, FM 955, PR 11, SH 111, SH 36, SH 60, SH 71, SH 80, SS 159, SS 92, UA 77, UA 90, US 77, US 90

Estimate & Quantity Sheet

ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL
	316-6004	ASPH (TIER I)	GAL	1,257,277.000	
	316-6005	ASPH (TIER II)	GAL	746,328.000	
	316-6017	ASPH (AC-20-5TR)	GAL	736,288.000	
	316-6246	AGGR(TY-PE GR-3 SAC-B)	CY	43,752.000	
	316-6249	AGGR(TY-PE GR-4 SAC-B)	CY	11,465.000	
	500-6001	MOBILIZATION	LS	1.000	
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	МО	5.000	
	662-6109	WK ZN PAV MRK SHT TERM (TAB)TY W	EA	3,666.000	
	662-6111	WK ZN PAV MRK SHT TERM (TAB)TY Y-2	EA	46,550.000	
	666-6030	REFL PAV MRK TY I (W)8"(DOT)(100MIL)	LF	1,048.000	
	666-6036	REFL PAV MRK TY I (W)8"(SLD)(100MIL)	LF	17,171.000	
	666-6170	REFL PAV MRK TY II (W) 4" (SLD)	LF	1,388,515.000	
	666-6205	REFL PAV MRK TY II (Y) 4" (BRK)	LF	178,673.000	
	666-6207	REFL PAV MRK TY II (Y) 4" (SLD)	LF	709,609.000	
	666-6300	RE PM W/RET REQ TY I (W)4"(BRK)(100MIL)	LF	25,771.000	
	666-6303	RE PM W/RET REQ TY I (W)4"(SLD)(100MIL)	LF	1,649,435.000	
	666-6312	RE PM W/RET REQ TY I (Y)4"(BRK)(100MIL)	LF	144,243.000	
	666-6315	RE PM W/RET REQ TY I (Y)4"(SLD)(100MIL)	LF	624,262.000	
	666-6342	REF PROF PAV MRK TY I(W)4"(SLD)(100MIL)	LF	1,388,515.000	
	666-6344	REF PROF PAV MRK TY I(Y)4"(BRK)(100MIL)	LF	178,673.000	
	666-6345	REF PROF PAV MRK TY I(Y)4"(SLD)(100MIL)	LF	709,609.000	
	668-6074	PREFAB PAV MRK TY C (W) (12") (SLD)	LF	466.000	
	668-6075	PREFAB PAV MRK TY C (W) (18") (SLD)	LF	7,445.000	
	668-6076	PREFAB PAV MRK TY C (W) (24") (SLD)	LF	6,998.000	
	668-6077	PREFAB PAV MRK TY C (W) (ARROW)	EA	93.000	
	668-6085	PREFAB PAV MRK TY C (W) (WORD)	EA	48.000	
	668-6089	PREFAB PAV MRK TY C (W) (RR XING)	EA	27.000	
	668-6091	PREFAB PAV MRK TY C (W) (18")(YLD TRI)	EA	14.000	
	668-6092	PREFAB PAV MRK TY C (W) (36")(YLD TRI)	EA	17.000	
	668-6108	PREFAB PAV MRK TY C (Y) (24") (SLD)	LF	6,626.000	
	672-6007	REFL PAV MRKR TY I-C	EA	2,449.000	
	672-6009	REFL PAV MRKR TY II-A-A	EA	36,276.000	
	6001-6002	PORTABLE CHANGEABLE MESSAGE SIGN	EA	1.000	
	6056-6001	PREFORMED IN-LANE(TRANS) RUMBLE STRIP	LF	120.000	
	6185-6002	TMA (STATIONARY)	DAY	25.000	
	6185-6005	TMA (MOBILE OPERATION)	DAY	150.000	
	12	RAILROAD FLAGGING: RAILROAD FORCE ACCOUNT WORK (PARTICIPATING)	LS	18.000	
	18	EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS	1.000	



COUNTY Austin, Calhoun, Colorado, De Witt, Fayette, Gonzales, Jackson, Lavaca, Matagorda, Victoria, Wharton

DISTRICT	COUNTY	CCSJ	SHEET
Yoakum	Gonzales	0025-05-024	12



CONTROLLING PROJECT ID 0025-05-024

Estimate & Quantity Sheet

DISTRICT Yoakum

COUNTY Austin, Calhoun, Colorado, De Witt, Fayette, Gonzales, Jackson, Lavaca, Matagorda, Victoria, Wharton HIGHWAY BU 59T, BU 77S, FM 102, FM 1094, FM 1095, FM 1115, FM 1301, FM 155, FM 1685, FM 1822, FM 2078, FM 2143, FM 2187, FM 234, FM 237, FM 2436, FM 2437, FM 2503, FM 2615, FM 2668, FM 2717, FM 2980, FM 3013, FM 3057, FM 3084, FM 3280, FM 3538, FM 448, FM 530, FM 616, FM 647, FM 77, FM 955, PR 11, SH 111, SH 36, SH 60, SH 71, SH

80, SS 159, SS 92, UA 77, UA 90, US 77, US 90

ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL
	18	SAFETY CONTINGENCY: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS	1.000	
		LAW ENFORCEMENT: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS	1.000	



DISTRICT	COUNTY	CCSJ	SHEET
Yoakum	Gonzales	0025-05-024	12A

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0025-05-024 COUNTY : GONZALES LENGTH : 32,790.00 FT = 6.210 MI LIMITS : FROM SH 80 TO 0.25 MI E OF CR 143	HWY: UA 90 TYPE: SEAL COAT PROJECT: #1 TRAFFIC: 3428 VPD		
LIMITS STA TO STA	FT	WIDTH FT	AREA SY
(1) STA 0+00.00 TO STA 327+90.00 (5)			87440
	TOTAL TRAVEL	LANE AREA	87440
<pre>(1) STA 0+00.00 TO STA 9+18.00 STA 9+18.00 TO STA 11+18.00 STA 11+18.00 TO STA 12+28.00 STA 12+28.00 TO STA 12+28.00 STA 12+28.00 TO STA 14+48.00 STA 14+48.00 TO STA 108+31.00 STA 108+31.00 TO STA 108+31.00 STA 108+31.00 TO STA 110+11.00 STA 110+11.00 TO STA 111+11.00 STA 111+11.00 TO STA 112+91.00 STA 112+91.00 TO STA 112+91.00 STA 239+22.00 TO STA 239+22.00 STA 239+22.00 TO STA 240+72.00 STA 240+72.00 TO STA 240+72.00 STA 242+74.00 TO STA 242+74.00 STA 242+74.00 TO STA 317+39.00 STA 317+39.00 TO STA 317+39.00 STA 318+89.00 TO STA 319+89.00 STA 319+89.00 TO STA 321+69.00 STA 321+69.00 TO STA 327+90.00 (5)</pre>	918.00 200.00 110.00 220.00 9383.00 180.00 12631.00 12631.00 150.00 202.00 180.00 7285.00 150.00 150.00 180.00 621.00	16 16-4 4 4-16 16 16-4 4 4-16 16 16-4 4 4-16 16 16-4 4 4-16 16	1632 222 49 244 16681 200 44 200 22455 167 90 200 12951 167 44 200 1104 56650
INTERSECTIONS COUNTY ROADS (8 EA)	VAR	VAR	1620
	TOTAL INTERSE	CTION AREA	1620

Project Number:

Sheet 13

Control 0025-05-024, ETC

County: GONZALES, ETC

Highway: UA 90, ETC

[UA 90	PROJECT	#1	CONT
S	LIMITS TA TO STA		
(1) STA 0+0 (5) STA 327+9			
(2) NO EQUATI (3) NO EXCEPT (4) NO RAILRO	IONS	GS	

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Sheet 13 **Control** 0025-05-024, ETC GONZALES CO. CONT'D]---0025-05-024 LENGTH WIDTH AREA FΤ FΤ SY ------540+0.527 546+0.761



Sheet 14	r:	Project Number:	Sheet 14			t Number:
Control 0025-05-024, ETG	ALES, ETC	County: GONZAI	0025-05-024, ETC	Control 00		: GONZALES, ETC
	0, ETC	Highway: UA 90,				ay: UA 90, ETC
T 0025-05-024 GONZALES CO. CONT'D]	PROJECT #1 CONT 0025-0	[UA 90	0. CONT'D])24 GONZALES CO	CONT 0025-05-0	A 90 PROJECT #1
F ESTIMATE	BASIS OF E			FIMATE	OF EST	BASIS
RATE BASIS QUANTITY UNIT	SCRIPTION RATE	ITEM DESCI	CITY UNIT	BASIS QUANTI	RATE	DESCRIPTION
EST 1 EA EST 1 EA	PAV MRK TY C(W) (WORD) P"		40222 GAL 26059 GAL	87440 SY 56650 SY	0.46 GAL/SY 0.46 GAL/SY	ASPH (TIER I) TRAVEL LANES SHOULDERS
TOTAL 2 EA			745 GAL AL 67026 GAL	1620 SY TOTAL	0.46 GAL/SY	INTERSECTIONS
A/40 LF 14371 LF 359 EA	V MRKR TY II-A-A 1 EA/80 LF LE NO PASS 1 EA/40 LF LE NO PASS 1 EA/40 LF	PASS SINGLE	795 CY 515 CY 15 CY	87440 SY 56650 SY 1620 SY	1 CY/110 SY 1 CY/110 SY 1 CY/110 SY	AGGR(TY-PE GR-3 SAC-B) TRAVEL LANES SHOULDERS INTERSECTIONS
TOTAL 626 EA				TOTAL		
SIGN EST 1 EA EST 25 DAY	E CHANGEABLE MESSAGE SIGN ATIONARY)	6001 PORTABLE 6185 TMA (STAT	820 EA 10 EA	32790 LF EST	iab)ty y-2 1 EA/40 lf	WK ZN PAV MRK SHT TERM(CENTERLINE BEGIN/END NO PASSING
EST 150 DAY	BILE OPERATION)	6185 TMA (MOBI	AL 830 EA	TOTAL		
			65580 LF	EST	4"(SLD)(100MIL)	RE PM W/RET REQ TY I(W) EDGELINE
			3877 LF 3593 LF	15508 LF 14371 LF	4"(BRK)(100MIL) 10 LF/40 LF 10 LF/40 LF	RE PM W/RET REQ TY I(Y) PASS SINGLE NO PASS
			 L 7470 LF	TOTAL		
			14371 LF 5822 LF 20193 LF	14371 LF 2911 LF X 2 TOTAL	4"(SLD)(100MIL)	RE PM W/RET REQ TY I(Y) SINGLE NO PASS DOUBLE NO PASS
			4542 LF	EST		PREFAB PAV MRK TY C(W) (RESTRICTED WIDTH BRI

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0025-06-057 COUNTY : GONZALES LENGTH : 39,532.00 FT = 7.487 MI LIMITS : FROM 0.25 MI EAST OF CR 143 TO GONZALES C-L	HWY: UA 90 TYPE: SEAL COAT PROJECT: #2 TRAFFIC: 4929 VPD	ŗ
LIMITS STA TO STA	LENGTH WIDTH FT FT	SY
<pre>(1) STA 0+00.00 TO STA 154+48.00 STA 154+48.00 TO STA 158+08.00 STA 158+08.00 TO STA 166+13.00 STA 166+13.00 TO STA 171+25.00 STA 171+25.00 TO STA 395+32.00 (5)</pre>	15448.00 24 360.00 24-50 805.00 50 512.00 50-24	41195 1480 4472
	TOTAL TRAVEL LANE AREA	A 109004
<pre>(1) STA 0+00.00 TO STA 59+80.00 STA 59+80.00 TO STA 62+20.00 STA 62+20.00 TO STA 63+00.00 STA 63+00.00 TO STA 65+40.00 STA 65+40.00 TO STA 154+48.00 STA 154+48.00 TO STA 154+48.00 STA 166+13.00 TO STA 171+25.00 STA 171+25.00 TO STA 395+32.00 (5)</pre>	5980.0020240.0020-1480.0014240.0014-208908.0020360.0020-0512.000-2022407.0020	453 124 453 19796 400
	TOTAL SHOULDER AREA	A 84877
ADDITIONAL AREA HISTORICAL MARKER	104.00 10	116
	TOTAL ADDITIONAL AREA	 A 116
INTERSECTIONS COUNTY ROADS (2 EA)	VAR VAR	408
	TOTAL INTERSECTION AREA	 408

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

[UA 90	PROJECT	#2	CONT
ç	LIMITS STA TO STA		
		====	

(1) STA 0+00.00 = MP: 8.973 = TRM 546+0.761 (5) STA 395+32.00 = MP: 16.460 = TRM 554+0.270

(2) NO EQUATIONS

- (3) NO EXCEPTIONS
- (4) NO RAILROAD CROSSINGS

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Sheet 15

Control 0025-05-024, ETC

Sheet 15 **Control** 0025-05-024, ETC 0025-06-057 GONZALES CO. CONT'D]---LENGTH WIDTH AREA FΤ FΤ SY AMANDA ANDERLE FLINC 08/01/2022 DATE 10598



Proje	ct Number:				Shee	t 16
Count	County: GONZALES, ETC			ontrol 0025	-05-024	, ETC
Highv	vay: UA 90, ETC					
[t	JA 90 PROJECT #2	CONT 0025-06-0)57 Gonz	ALES CO.	CONT ' D]
	BASI	SOFES	гімате			
	DESCRIPTION					
	ASPH (TIER I)					
	STA 0+00.00 TO ST.	A 158+08.00				
	TRAVEL LANES	0.46 GAL/SY	42675 \$	SY	19631	GAL
		0.50 GAL/SY	34515 S	SY	17258	GAL
	STA 158+08.00 TO ST.					
	TRAVEL LANES	0.28 GAL/SY 0.30 GAL/SY	66329 5	SY	18572	GAL
	SHOULDERS	0.30 GAL/SY	50362 5	5Y	15109	GAL
	ADDITIONAL AREA	0.30 GAL/SY 0.30 GAL/SY	116 5	σΥ	35	GAL
	INTERSECTIONS	U.JU GAL/SY	408 5	T	122	
				TOTAL		
316	AGGR(TY-PE GR-3 SAC- STA 0+00.00 TO ST TRAVEL LANES SHOULDERS		42675 s 34515 s	TOTAL		
316	AGGR (TY-PE GR-4 SAC-					
	STA 158+08.00 TO ST.				453	~
	TRAVEL LANES				457	
	SHOULDERS ADDITIONAL AREA	1 CY/145 SY 1 CY/145 SY	50362 s 116 s		347 1	
	INTERSECTIONS	1 CY/145 SY	408 5		13	
				TOTAL		
				TOTAL	808	CI
662	WK ZN PAV MRK SHT TE	RM(TAB)TY W				
		1 EA/20 LF	570 I	ĿF	29	ΕA
	LANE LINE	1 EA/40 LF	283 I		7	
				TOTAL		 EA
662	WK ZN PAV MRK SHT TE			-	0.00	
	CENTERLINE	1 EA/40 LF		F v o	960	
	GORE BEGIN/END NO PASS	2 EA/20 LF	2278 I EST	JFX2	456	EA EA

1426 EA

TOTAL

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

			- ~	~ -			_			
		BAS.	1 S 	О <u></u>	E S T	I M A T	E 			
		SCRIPTION				BASIS				Т.
666		IV MRK TY I(W) I LANE	8" (SLD)) (100M	IL)	EST			570	L
666		i/ret req ty i Line		BRK) (10 D LF/40		283	LF		71	L
666		I/RET REQ TY 1 ELINE	E (W) 4″ (S	SLD) (10	OOMIL)	EST			79064	I
666	PASS	i/ret req ty 1 Sie no pass	1 () T.F/4() T.F	8977 13246			3312	Ι
								TOTAL	5556	
666	SING	I/RET REQ TY I GLE NO PASS BLE NO PASS S	E (Y) 4″ (S	SLD) (10	OOMIL)	13578	LF	X 2 X 4	13246 27156 9112	I I
								TOTAL	49514	
668		PAV MRK TY C				EST			1109	I
672	TURN	V MRKR TY I-C I LANE 2 LINE	1	EA/20 EA/80		570 283			29	E
								TOTAL		
672	PASS		1	EA/80		8977			112	
		GLE NO PASS BLE NO PASS C	1	EA/40 EA/40 EA/20	LF	13246 13578 2278	LF		331 339 456	E E
								TOTAL	1238	

Sheet 16

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0287-03-037 COUNTY : GONZALES LENGTH : 37,388.00 FT = 7.081 MI LIMITS : FROM US 90A TO 0.155 MI S OF CR 104	HWY: SH 80 TYPE: SEAL COAT PROJECT: #3 TRAFFIC: 2453 VPD	
LIMITS STA TO STA	LENGTH WIDTH FT FT	SY
<pre>(1) STA 0+00.00 TO STA 7+82.00 (3) (3) STA 50+82.00 TO STA 114+33.00 STA 114+33.00 TO STA 412+63.00 STA 412+63.00 TO STA 416+88.00 (5)</pre>		2259 18347 106062 1133
	TOTAL TRAVEL LANE AREA	127801
 (1) STA 0+00.00 TO STA 7+82.00 (3) (3) STA 50+82.00 TO STA 114+33.00 STA 412+63.00 TO STA 416+88.00 (5) 	782.00226351.0022425.0016	1912 15525 756
	TOTAL SHOULDER AREA	 18193
INTERSECTIONS COUNTY ROADS (6 EA) FM 466 (2 EA)	VAR VAR VAR VAR	798 340
	TOTAL INTERSECTION AREA	 1138

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

	[SH 80	PROJECT #3	CONT
	SI	LIMITS A TO STA	
		.00 = MP: .00 = MP: 13	
(2)	NO EQUATIC		
(0)			(GUA

(4) NO RAILROAD CROSSINGS

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Sheet 17

Control 0025-05-024, ETC

Sheet 17 **Control** 0025-05-024, ETC GONZALES CO. CONT'D]--т 0287-03-037 LENGTH WIDTH AREA FΤ SY FT_____ RM 500+1.995 RM 508+1.907 50+82.00 = -4300.00 LF = -0.814 MI (GUADALUPE RIVER BRIDGE REPLACEMENT PROJECT)



roje	ct Number:						Shee	t 18
County: GONZALES, ETC			Control 0025-05-024, ETG					
Highv	vay: UA 90, ETC							
·[\$	SH 80 PROJEC	т #3	CONT 0287-03-0)37 GON	IZALI	es co. c	CONT ' D]
	в А		OFEST	ТИМАТ				
TEM	DESCRIPTIO	N			Q	UANTITY	UNI	Т
	ASPH (TIER I)							
	STA 0+00.00		+33.00 0.48 GAL/SY	20606	gv		9891	CAL
	SHOULDERS		0.48 GAL/S1 0.50 GAL/SY	17437	SY		8719	GAL
	STA 114+33.00 '	TO STA 416-	+88.00					
	TRAVEL LANES		0.28 GAL/SY 0.28 GAL/SY	107195	SY		30015	GAL
	INTERSECTION	5	0.28 GAL/SY 0.28 GAL/SY 0.28 GAL/SY	1138	SY		319	GAL
						TOTAL	49156	GAL
316	AGGR (TY-PE GR-3 STA 0+00.00	SAC-B) fo sta 114 [.]	+33 00					
			1 CY/110 SY	20606	SY		187	СҮ
	SHOULDERS		1 CY/110 SY	17437	SY		159	
						TOTAL	 346	
							010	01
316		SAC-B)						
210	AGGR(TY-PE GR-4 STA 114+33.00		+88.00					
	TRAVEL LANES		1 CY/145 SY					
	SHOULDERS		1 CY/145 SY				5	
	INTERSECTION:	Ċ	1 CY/145 SY	1138	SY		8	CY
						TOTAL	752	СХ
662	WK ZN PAV MRK SI	TT TERM (TA	B)TY W					
	TURN LANE		1 EA/20 LF	244	LF		12	EA
662	WK ZN PAV MRK SI CENTERLINE		b)ty y-2 1 ea/40 lf	37388	न.⊺		935	F.Δ
	BEGIN/END NO		, IV	EST			10	
						TOTAL	945	ĽА
666	REFL PAV MRK TY TURN LANE	I(W)(8″)(SLD) (100MIL)	EST			244	T. 57
	IURN LANE			EST			244	115

County: GONZALES, ETC

Highway: UA 90, ETC

8	,·					
[\$	SH 80 PROJECT #3	CONT 0287-03-03	37 GON	ZALES CO.	CONT ' D]
	BASIS	OF EST	IMAT	Е		
	DESCRIPTION					 T
	REFL PAV MRK TY II(W)4"(S EDGELINE		EST		60510	LF
666	RE PM W/RET REQ TY I(W)4" EDGELINE	(SLD) (100MIL)	EST		14266	LF
666	RE PM W/RET REQ TY I(Y)4" PASS SINGLE NO PASS	10 LF/40 LF	5261 17991	LF LF	1315 4498	LF
				TOTAL	5813	
666	RE PM W/RET REQ TY I(Y)4" SINGLE NO PASS DOUBLE NO PASS	(SLD) (100MIL)		LF LF X 2		LF
				TOTAL	45795	LF
666	REF PROF PAV MRK TY I(W)4 EDGELINE	"(SLD)(100MIL)	EST		60510	LF
668	PREFAB PAV MRK TY C(W)(24 STOP BAR	") (SLD)	EST		26	LF
672	REFL PAV MRKR TY I-C TURN LANE	1 EA/20 LF	244	LF	12	EA
672	SINGLE NO PASS	1 EA/80 LF 1 EA/40 LF 1 EA/40 LF	5261 17991 13902	LF	66 450 348 864	EA EA

Sheet 18

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0287-04-039 COUNTY : GONZALES LENGTH : 23,814.00 FT = 4.510 MI LIMITS : FROM 0.155 MI S OF CR 104 TO 2.1 MI N OF SH 97	HWY: SH 80 TYPE: SEAL COAT PROJECT: #4 TRAFFIC: 1883 VPD	
LIMITS STA TO STA	LENGTH WIDTH FT FT	AREA SY
<pre>(1) STA 0+00.00 TO STA 2+80.00 STA 2+80.00 TO STA 49+65.00 STA 49+65.00 TO STA 53+00.00 STA 53+00.00 TO STA 118+24.00 STA 118+24.00 TO STA 127+31.00 STA 127+31.00 TO STA 184+37.00 STA 184+37.00 TO STA 191+50.00 STA 191+50.00 TO STA 238+14.00 (5)</pre>	907.00 40	1244 16658 1414 23196 4031 20288 3169 16583 86583
ADDITIONAL AREA	133.00 14 TOTAL ADDITIONAL AREA	207 207
INTERSECTIONS COUNTY ROADS (6 EA) FM 1682 (1 EA)	VAR VAR VAR VAR TOTAL INTERSECTION AREA	675 145 820

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

[SH 80	PROJECT #4	CONT				
LIMITS						

STA TO STA

(1)	STA	0+00.00	=	MP:	13.680	=	TRM
(5)	STA	238+14.00	=	MP:	18.190	=	TRM

(2) NO EQUATIONS

(3) NO EXCEPTIONS

(4) NO RAILROAD CROSSINGS

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Sheet 19

Control 0025-05-024, ETC

Sheet 19 **Control** 0025-05-024, ETC 0287-04-039 GONZALES CO. CONT'D]---LENGTH WIDTH AREA FΤ FΤ SY _____ _____ RM 508+1.907 RM 514+0.465



Project Number:	
-----------------	--

County: GONZALES, ETC

Highway: UA 90, ETC

[SH 80 PROJECT #4	CONT 0287-04-0	39 GON	ZALES CO.	CONT'D]
	BASI	S OF EST		E	
ITEM	DESCRIPTION	RATE	BASIS		ζ UNIT
	ASPH (TIER I)				0.40.40.000
	TRAVEL LANES ADDITIONAL AREA				
	INTERSECTIONS	0.28 GAL/SY	820	SY	230 GAI
				TOTAL	24531 GAI
316	AGGR (TY-PE GR-4 SAC-B)			
	TRAVEL LANES				
	ADDITONAL AREA				
	INTERSECTIONS	1 CY/145 SY	820	SY	6 CY
				TOTAL	604 CY
662	WK ZN PAV MRK SHT TER	М(ТАВ)ТҮ Ү-2			
	CENTERLINE		23814	LF	595 EA
	BEGIN/END NO PASSI	NG	EST		10 EA
				TOTAL	605 EA
666	REFL PAV MRK TY II(W) Edgeline	4″(SLD)	EST		47628 LF
	EDGELTINE		E01		47020 11
666	RE PM W/RET REQ TY I (0.7.5.0		0100
	PASS SINGLE NO PASS				
		10 11, 10 11	12202		
				TOTAL	5241 LF
666	RE PM W/RET REQ TY I(Y)4"(SLD)(100MIL)			
	SINGLE NO PASS			LF	
	DOUBLE NO PASS		2603	LF X 2	5206 LF
				TOTAL	17408 LF
666	REF PROF PAV MRK TY I EDGELINE	(W) 4" (SLD) (100MIL)			

Project Number:

Sheet 20

Control 0025-05-024, ETC

County: GONZALES, ETC

Highway: UA 90, ETC

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[ЅН 80	PROJECT #4	CONT	0287-04-0	39 GON	ZALES CO. (СОМТ'Д]
	BASIS	OF	ЕЅТ	ΙΜΑΤ	E	
ITEM DE	SCRIPTION	RAT	E	BASIS	QUANTITY	Y UNIT
672 REFL PA	AV MRKR TY II-A-A					
PASS	5	1 EA/8	O LF	8759	LF	109 EA
SING	GLE NO PASS	1 EA/4	0 LF	12202	LF	305 EA
DOUE	BLE NO PASS	1 EA/4	0 LF	2603	LF	65 EA
					TOTAL	479 EA

Sheet 20

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0584-01-002 COUNTY : GONZALES LENGTH : 10,373.00 FT = 1.964 MI LIMITS : FROM US 183 TO FM 1586	HWY: PR 11 TYPE: SEAL COAT PROJECT: #5 TRAFFIC: 471 VPD	
LIMITS STA TO STA	LENGTH WIDTH FT FT	AREA SY
(1) STA 0+00.00 TO STA 103+73.00 (5)	10373.00 23	26509
	TOTAL TRAVEL LANE AREA	26509
ADDITIONAL AREA OVERLOOK	240.00 12	320
	TOTAL ADDITIONAL AREA	320

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[PR 11 PROJECT #5

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 0.014 = TRM 084-0.033 (5) STA 103+73.00 = MP: 1.978 = TRM 084+1.931

(2) NO EQUATIONS

(3) NO EXCEPTION

(4) NO RAILROAD CROSSINGS

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Control 0025-05-024, ETC

Sheet 21

Sheet 21 **Control** 0025-05-024, ETC CONT 0584-01-002 GONZALES CO. CONT'D]---LENGTH WIDTH AREA FΤ FΤ SY _____ _____



County: GONZALES, ETC

Highway: UA 90, ETC

	BASIS	OF EST	IMAT	Е			
ITEM	DESCRIPTION	RATE	BASIS		UANTITY	UNI	
316	ASPH (TIER II) TRAVEL LANES ADDITIONAL AREA		26509	SY		90	GAI
					TOTAL	7513	
316	AGGR (TY-PE GR-4 SAC-B)	1 01/145 01		0.17		100	0.77
	TRAVEL LANES ADDITIONAL AREA	1 CY/145 SY 1 CY/145 SY	26509 320	SY SY		183 	СҮ
					TOTAL	185	СХ
662	WK ZN PAV MRK SHT TERM(T CENTERLINE BEGIN/END NO PASSING		10373 EST			259 10	
					TOTAL		
666	REFL PAV MRK TY II(Y)4"(BRK)					
	PASS SINGLE NO PASS		220 1230			55 308	LF
					TOTAL		
666	REFL PAV MRK TY II (Y) 4" (SLD)	1000	TE		1000	T 17
	SINGLE NO PASS DOUBLE NO PASS				X 2		
					TOTAL	19076	LF
666	REF PROF PAV MRK TY I (Y)		220	TE		55	TTP
	PASS SINGLE NO PASS	10 LF/40 LF 10 LF/40 LF	220 1230			55 308 	LF
					TOTAL		

Project Number:

Sheet 22

Control 0025-05-024, ETC

County: GONZALES, ETC

Highway: UA 90, ETC

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[PR 11 PROJ	ECT #5	CONT 0584	-01-002	GONZAL	ES CO. C	омт'д]
В	ASIS	OFE	STIM	АТЕ		
ITEM DESCRIPT	ION	RATE	BASIS	5 Ç	UANTITY	UNIT
666 REF PROF PAV I Single no i Double no i	PASS	4″(SLD)(100				1230 LF 17846 LF
					TOTAL	 19076 LF
672 REFL PAV MRKR PASS SINGLE NO D DOUBLE NO D	PASS	1 EA/80 LE 1 EA/40 LE 1 EA/40 LE	7	220 LF 1230 LF 8923 LF		3 EA 31 EA 223 EA
					TOTAL	257 EA

R 11 PROJEC	r #5	CONT 05	84-01-00	2 GON	ZALES CO. C	сомт'д]
ΒA	SIS	OF	ЕЅТ	ІМАТ	E	
DESCRIPTION	 	RATE		BASIS	QUANTITY	UNIT
REF PROF PAV MRK SINGLE NO PAS DOUBLE NO PAS	S	4" (SLD) (1	00MIL)		LF LF X 2	1230 LF 17846 LF
					TOTAL	 19076 LF
REFL PAV MRKR TY	II-A-A					
PASS		1 EA/80	LF	220	LF	3 EA
SINGLE NO PAS	S	1 EA/40	LF	1230	LF	31 EA
DOUBLE NO PAS	S	1 EA/40	LF	8923	LF	223 EA
					TOTAL	257 EA

Sheet 22

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0687-01-015 COUNTY : GONZALES LENGTH : 44,448.00 FT = 8.418 MI LIMITS : FROM US 87 TO FM 108			
LIMITS STA TO STA	LENGTH FT	WIDTH FT	AREA SY
(1) STA 0+00.00 TO STA 444+48.00 (5)	44448.00	26	128405
	TOTAL TRAVEL	LANE AREA	 128405
INTERSECTIONS COUNTY ROADS (6 EA)	VAR	VAR	1585
	TOTAL INTERSE	CTION AREA	1585

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

[FM 77	PROJECT ‡	∮6 CONT
	LIMITS STA TO STA	

(1) STA 0+00.00 = MP: 0.015 = TRM 538-0.030 (5) STA 444+48.00 = MP: 8.433 = TRM 546+0.439

(2) NO EQUATIONS

(3) NO EXCEPTION

(4) NO RAILROAD CROSSINGS

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Sheet 23

Control 0025-05-024, ETC

Sheet 23 **Control** 0025-05-024, ETC т 0687-01-015 GONZALES CO. CONT'D]---LENGTH WIDTH AREA FΤ SY FT_____



County: GONZALES, ETC

Highway: UA 90, ETC

316 A	DESCRIPTION	0.48 GAL/SY 0.48 GAL/SY 1 CY/110 SY 1 CY/110 SY TAB)TY Y-2 1 EA/40 LF	BASIS 128405 1585 128405 1585 1585	I Q SY SY SY	TOTAL	61634 761 62395 1167 14	GAL GAI GAI CY CY
316 A	ASPH (TIER II) TRAVEL LANES INTERSECTIONS AGGR(TY-PE GR-3 SAC-B) TRAVEL LANES INTERSECTIONS WK ZN PAV MRK SHT TERM(CENTERLINE	0.48 GAL/SY 0.48 GAL/SY 1 CY/110 SY 1 CY/110 SY TAB)TY Y-2 1 EA/40 LF	128405 1585 128405 1585 44448	SY SY SY SY	TOTAL	61634 761 62395 1167 14	GAL GAI GAI CY CY
316 A	TRAVEL LANES INTERSECTIONS AGGR (TY-PE GR-3 SAC-B) TRAVEL LANES INTERSECTIONS VK ZN PAV MRK SHT TERM (CENTERLINE	0.48 GAL/SY 1 CY/110 SY 1 CY/110 SY TAB)TY Y-2 1 EA/40 LF	1585 128405 1585 44448	SY SY SY	TOTAL	761 62395 1167 14	GAI GAI CY CY
316 A	INTERSECTIONS AGGR (TY-PE GR-3 SAC-B) TRAVEL LANES INTERSECTIONS VK ZN PAV MRK SHT TERM (CENTERLINE	0.48 GAL/SY 1 CY/110 SY 1 CY/110 SY TAB)TY Y-2 1 EA/40 LF	1585 128405 1585 44448	SY SY SY	TOTAL	761 62395 1167 14	GAI GAI CY CY
662 W	AGGR (TY-PE GR-3 SAC-B) TRAVEL LANES INTERSECTIONS VK ZN PAV MRK SHT TERM (CENTERLINE	1 CY/110 SY 1 CY/110 SY TAB)TY Y-2 1 EA/40 LF	128405 1585 44448	SY SY	TOTAL	62395 1167 14	GAI CY CY
662 W	TRAVEL LANES INTERSECTIONS VK ZN PAV MRK SHT TERM(CENTERLINE	1 CY/110 SY TAB)TY Y-2 1 EA/40 LF	1585 44448	SY		1167 	CY CY
662 W	TRAVEL LANES INTERSECTIONS VK ZN PAV MRK SHT TERM(CENTERLINE	1 CY/110 SY TAB)TY Y-2 1 EA/40 LF	1585 44448	SY		14	СҮ
	INTERSECTIONS VK ZN PAV MRK SHT TERM(CENTERLINE	1 CY/110 SY TAB)TY Y-2 1 EA/40 LF	1585 44448	SY		14	СҮ
	VK ZN PAV MRK SHT TERM(CENTERLINE	TAB)TY Y-2 1 EA/40 LF	44448				
	CENTERLINE	1 EA/40 LF		тъ	TOTAL		
	CENTERLINE	1 EA/40 LF		тъ			
	CENTERLINE	1 EA/40 LF		тг			
666 F				1.1		1111	ΕA
666 F			EST			10	
666 F							
666 F					TOTAL	1121	EA
	REFL PAV MRK TY II(Y)4"						
	PASS SINGLE NO PASS	10 LF/40 LF	4731	LF		1183	
	SINGLE NO PASS	10 LF/40 LF	11837	ΓF.		2959	
					TOTAL		
666 F	REFL PAV MRK TY II(Y)4"	(SLD)					
	SINGLE NO PASS		11837	LF		11837	LF
	DOUBLE NO PASS		27508	LF	X 2	55016	LF
					TOTAL	66853	LF
666 F	RE PM W/RET REQ TY I(W)	4" (SLD) (100MTL)					
000 1	EDGELINE	4 (SLD) (100M1L)	EST			88896	LF
666 F	יי זית זיתע זיגר קרסר קוסט	· /// /DDV) /100477 \					
000 F	REF PROF PAV MRK TY I(Y PASS	10 LF/40 LF	4731	ΓĿ		1183	LF
	SINGLE NO PASS	10 LF/40 LF	11837			2959	
						 4142	

Project Number:

Sheet 24

Control 0025-05-024, ETC

County: GONZALES, ETC

Highway: UA 90, ETC

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[FM 77	PROJECT #6	CONT 0687-01-01	5 GONZALES CO	. CONT'D]
	BASIS	OF EST	IMATE	
ITEM DE	SCRIPTION	RATE	BASIS QUANTI	TY UNIT
666 REF PRO	OF PAV MRK TY I (Y))4"(SLD)(100MIL)		
SING	GLE NO PASS		11837 LF	11837 LF
DOUE	BLE NO PASS		27508 LF X 2	55016 LF
			TOTAI	 66853 LF
672 REFL PA	AV MRKR TY II-A-A			
PASS	3	1 EA/80 LF	4731 LF	59 EA
SING	GLE NO PASS	1 EA/40 LF	11837 LF	296 EA
DOUE	BLE NO PASS	1 EA/40 LF	27508 LF	688 EA
			TOTAL	1043 EA

4 77	PRO	JECT	#6	i	COI	NT 06	87-	01-	-01	.5			GON	IZAI	ES	co.	CONI	''D]	•
	E	3 A	S	IS	0	F	Е	S	т	I	М	A	т	Е						
DESCI	RIPT	ION			I	RATE				B	ASI	[S		ç	QUA	NTIT	Y	UNI	т Т	
REF PROF SINGLE DOUBLE	NO	PASS	5	I(Y)	4″ (S	LD) (1	1001	4IL)								11: 55:			
															то	TAL	66	853	LF	
REFL PAV	MRKR	R TY	II-	-A-A																
PASS					1 E	A/80	LF					47	731	LF				59	ΕA	
SINGLE	NO	PASS	5		1 E	A/40	LF					118	337	LF				296	ΕA	
DOUBLE	NO	PASS	5		1 E	A/40	LF					275	508	LF				688	EA	
															то	TAL	10	043	EA	

Sheet 24

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

LIMI STA TC	-					
	-			FT	WIDTH FT	SY
A 0+00.00						======= 1506(
A 50+20.00	TO STA	55+25.00		505.00		1908
A 55+25.00	TO STA	93+31.00		3806.00	28	11841
						12192
						56763
			(3)			1661
						1510
						4843
						2169
				4337.00	27	13011
			(5)			2524 63216
A 340130.00	IO DIA	100.00	(3)	21072.00	2.1	
				TOTAL TRAVEL	LANE AREA	230288
A 320+27 00	ΤΟ STA	326+77 00	(3)	650 00	16	1150
			(3)			1051
				TOTAL SHOU	JLDER AREA	220
	A 93+31.00 A 123+79.00 A 320+27.00 A 328+42.00 A 334+33.00 A 495+78.00 A 495+78.00 A 499+33.00 A 542+70.00 A 548+38.00 A 320+27.00	A 93+31.00 TO STA A 123+79.00 TO STA A 320+27.00 TO STA A 328+42.00 TO STA A 334+33.00 TO STA A 495+78.00 TO STA A 499+33.00 TO STA A 542+70.00 TO STA A 548+38.00 TO STA	A 328+42.00 TO STA 334+33.00 A 334+33.00 TO STA 495+78.00 A 495+78.00 TO STA 499+33.00 A 499+33.00 TO STA 542+70.00 A 542+70.00 TO STA 548+38.00 A 548+38.00 TO STA 759+10.00	A 93+31.00 TO STA 123+79.00 A 123+79.00 TO STA 320+27.00 A 320+27.00 TO STA 326+77.00 (3) A 328+42.00 TO STA 334+33.00 A 334+33.00 TO STA 495+78.00 A 495+78.00 TO STA 495+78.00 A 495+78.00 TO STA 542+70.00 A 542+70.00 TO STA 548+38.00 A 548+38.00 TO STA 759+10.00 (5) A 320+27.00 TO STA 326+77.00 (3)	A 93+31.00 TO STA 123+79.00 3048.00 A 123+79.00 TO STA 320+27.00 19648.00 A 320+27.00 TO STA 326+77.00 (3) 650.00 A 328+42.00 TO STA 326+77.00 (3) 650.00 A 328+42.00 TO STA 334+33.00 591.00 A 334+33.00 TO STA 495+78.00 16145.00 A 495+78.00 TO STA 499+33.00 355.00 A 499+33.00 TO STA 542+70.00 4337.00 A 542+70.00 TO STA 759+10.00 (5) 21072.00 A 548+38.00 TO STA 326+77.00 (5) 21072.00 A 320+27.00 TO STA 326+77.00 (3) 650.00 A 328+42.00 TO STA 334+33.00 591.00	A 93+31.00 TO STA 123+79.00 3048.00 36 A 123+79.00 TO STA 320+27.00 19648.00 26 A 320+27.00 TO STA 326+77.00 (3) 650.00 23 A 328+42.00 TO STA 334+33.00 591.00 23 A 334+33.00 TO STA 495+78.00 16145.00 27 A 495+78.00 TO STA 499+33.00 355.00 55 A 499+33.00 TO STA 542+70.00 4337.00 27 A 542+70.00 TO STA 548+38.00 568.00 40 A 548+38.00 TO STA 759+10.00 (5) 21072.00 27 TOTAL TRAVEL LANE AREA A 320+27.00 TO STA 326+77.00 (3) 650.00 16

TOTAL INTERSECTION AREA

3082

Project Number:

---[FM 155 PROJECT #7 CONT

Sheet 25

Project Number	r:				Sheet 25
County: GONZ	ALES, ETC		C	ontrol 0025-0	5-024, ETC
Highway: UA 9	0, ETC				
[FM 155	PROJECT #7 LIMITS	CONT 0211-09-0	35 FAY LENGTH	ETTE CO. CO WIDTH	NT'D J Area
	IIMIIS IA TO STA ====================================		FT	FT	SY
	0.00 = MP: 1.009 0.00 = MP: 15.385				
(2) NO EQUATION	DNS : STA 326+77.00 TC) STA 328+42.00 =			
(4) NO RAILROA	AD CROSSINGS		(WILLIAMS	S CREEK BRII	JGE)
	Amanda Andeil Design e	·	08/01/2022 DATE	AMANE PO:	DA ANDERLE FLING 105989

Pr	t 26	Shee				r:	ct Number	Proje		
Co	ETC	5-05-024,	ntrol 002	C		County: GONZALES, ETC				
Hi						Highway: UA 90, ETC				
	I	CONT ' D	TTE CO.	035 FAX	CONT 0211-09-	PROJECT #7	FM 155	·[1		
				IMATE		BASIS				
IT 	r 	Y UNI				SCRIPTION		TEM		
6	GAL GAL	1059	Ϋ́ Ϋ́	2207	.48 GAL/SY	IER I) FIC LANES LDERS RSECTIONS	SHOUI	316		
	GAL	113076	TOTAL							
6	СҮ СҮ	2094 20 28	ľ	2207	CY/110 SY	- PE GR-3 SAC-B) FIC LANES LDERS RSECTIONS	TRAFI SHOUI	316		
		2142	TOTAL							
6		1894 10	2	75745 EST		AV MRK SHT TERM(TA ERLINE N/END NO PASSING	CENTE	662		
6		 1904	TOTAL							
	LF	151490		EST	D)	V MRK TY II(W)4″(S Line	REFL PAN EDGEI	666		
				-			-			
	LF	5537 6079		22148 24317	K) O LF/40 LF O LF/40 LF		PASS	666		
			TOTAL							
			F F X 2		D)	V MRK TY II(Y)4″(S Le no pass Le no pass	SINGI	666		
	LF	82651	TOTAL							
	LF	151490		EST	(SLD) (100MIL)	F PAV MRK TY I(W)4 Line	REF PROF EDGEI	666		

ct Number:

ty: GONZALES, ETC

vay: UA 90, ETC

											 DUANTITY		- - -
											-		. ⊥ - — —
666	REF PROF PAV N Pass	ARK TY						22	148	LF		5537	LF
	SINGLE NO H	PASS											LF
											TOTAL		
666	REF PROF PAV N	1RK TY	I(Y)4	″ (SL	D) (1	00мі	L)						
	SINGLE NO E DOUBLE NO E										X 2		LF
											TOTAL		
668	PREFAB PAV MRI STOP BAR	к тү с	(W) (24	″) (S	LD)			1	EST			30	LF
								-					
672	REFL PAV MRKR	TY II	-A-A										
	PASS												
	SINGLE NO E DOUBLE NO E	PASS PASS		1 EA 1 EA	/40 /40	LF. TL		24 29	317 167	LF. LF		608 729	ΕA
											TOTAL		

	Sheet 26
Con	trol 0025-05-024, ETC
35 FAYET	TE CO. CONT'D]
IMATE	
BASIS Ç	QUANTITY UNIT
22148 LF 24317 LF	5537 LF 6079 LF
ZHJI/ LF	
	TOTAL 11616 LF

24317 29167	X 2	24317 LF 58334 LF
	TOTAL	82651 LF
EST		30 LF

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0268-01-058 COUNTY : FAYETTE LENGTH : 17,480.00 FT = 3.310 MI LIMITS : FROM 1.50 MI SOUTH OF FM 155 TO 0.60 MI SOUTH FM 2436		
LIMITS STA TO STA	LENGTH WIDTH FT FT	AREA SY
<pre>(1) STA 0+00.00 TO STA 56+80.00 STA 56+80.00 TO STA 60+40.00 STA 60+40.00 TO STA 75+85.00 STA 75+85.00 TO STA 81+45.00 STA 81+45.00 TO STA 137+84.00 STA 137+84.00 TO STA 142+06.00 STA 142+06.00 TO STA 143+15.00 STA 143+15.00 TO STA 150+65.00 STA 150+65.00 TO STA 158+22.00 STA 158+22.00 TO STA 168+13.00</pre>	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	15147 1200 6180 1867 15037 1407 509 4000 3617 4184
STA 168+13.00 TO STA 174+80.00 (5)	667.00 24 TOTAL TRAVEL LANE AREA	1779 54927
<pre>(1) STA 0+00.00 TO STA 69+50.00 STA 69+50.00 TO STA 81+45.00 STA 81+45.00 TO STA 83+14.00 STA 83+14.00 TO STA 133+34.00 STA 133+34.00 TO STA 137+84.00 STA 137+84.00 TO STA 142+06.00 STA 142+06.00 TO STA 143+15.00 STA 143+15.00 TO STA 168+13.00 STA 168+13.00 TO STA 174+80.00 (5)</pre>	6950.00 12 1195.00 16 169.00 14 5020.00 12 450.00 15 422.00 24-28 109.00 28-20 2498.00 20 667.00 32	9267 2124 263 6693 750 1219 291 5551 2372 28530
ADDITIONAL AREA HISTORICAL MARKER ROADSIDE PARK	VAR VAR VAR VAR	1044 1844
	TOTAL ADDITIONAL AREA	2888
INTERSECTIONS COUNTY ROADS (4 EA)	VAR VAR TOTAL INTERSECTION AREA	300 300
		•

Project Number:

Sheet 27

Control 0025-05-024, ETC

County: GONZALES, ETC

Highway: UA 90, ETC

---[US 77 PROJECT #8

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 15.963 = TRM 498+1.954 (5) STA 174+80.00 = MP: 19.273 = TRM 502+1.249

(2) NO EQUATIONS

- (3) NO EXCEPTIONS
- (4) NO RAILROAD CROSSINGS

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Sheet 27 **Control** 0025-05-024, ETC CONT 0268-01-058 FAYETTE CO. CONT'D]---LENGTH WIDTH AREA FΤ SY FT_____ 08/01/2022 AMANDA ANDERLE FL DATE 1059

Proje	ct Number:			Sheet 28
Coun	ty: GONZALES, ETC		Contro	ol 0025-05-024, ETC
Highv	vay: UA 90, ETC			
[1	JS 77 PROJECT #8	CONT 0268-01-0	58 FAYETTE	со. сомт'д]
	BASIS	OF EST	IMATE	
ITEM	DESCRIPTION	RATE	BASIS QUA	ANTITY UNIT
316	ASPH (AC-20-5TR) TRAVEL LANES SHOULDERS ADDITIONAL AREA INTERSECTIONS	0.50 GAL/SY 0.50 GAL/SY	28530 SY 2888 SY	14265 GAL 1444 GAL
			т	OTAL 42224 GAL
316	AGGR(TY-PE GR-3 SAC-B) TRAVEL LANES SHOULDERS ADDITIONAL AREA INTERSECTIONS	1 CY/110 SY 1 CY/110 SY	28530 SY 2888 SY	259 CY 26 CY
			тс	DTAL 787 CY
662		1 EA/20 LF	3300 LF 842 LF	
				JIAL 100 LA
662	WK ZN PAV MRK SHT TERM(T CENTERLINE GORE BEGIN/END NO PASSING	CAB)TY Y-2 1 EA/40 LF 2 EA/20 LF	15132 LF 2348 LF X EST T (
666		000 (100MTT)		
000	REFL PAV MRK TY I(W)8"(I TURN LANE	3 LF/12 LF	873 LF	218 LF
666	REFL PAV MRK TY I(W)8″(S Turn lane	LD) (100MIL)	EST	2427 LF
666	RE PM W/RET REQ TY I(W)4 LANE LINE	4"(BRK)(100MIL) 10 LF/40 LF	842 LF	211 LF

County: GONZALES, ETC

Highway: UA 90, ETC

		P	ROJ		#	8		C	ON	r 02	208	5-01	0.	58			E.	AYET	L.L.E.	co. c	CNT	1-
			В	A	S	I	s		0	F	E	S	Т	I	M	[A	т	Е				
ITEM		DESCRI	[PT]	ON					R	ATE				B	AS	IS		(QUAN	ITITY	UNI	T
666		M W/RE DGELINI		Q I	ΓY	I(W)4	" (S	SLC) (1	001	MIL)				EST				34960	L
666		M W/RE																				
		ASS INGLE 1								F/4 F/4						7	386 184	LF LF				L
																			т	TAL	1893	
666	RE P	M W/RE	r re	50 T	ΓY	I(Y)4	<i>"</i> (§	SLE) (1	001	MIL)									
	S	INGLE 1	NO E	PASS	5	- 、	-,-	•		, ,-						7	184	LF			7184	L
		OUBLE 1 ORE	NO E	PASS	5											7	832	LF	X 2 X 4	2	15664 9392	I
	G	OKE														Z	340	μr				
																			TC	DTAL	32240	I
668		AB PAV T TURN	MRF	(Т)	Y (C (W) (A	RRC	O₩)								EST				6	E
668		ab pav Only"	MRF	(T.	Y (C (W	(W	ORI	5)								EST				6	Е
668		ab pav Ore Cro				C (Y	⁻) (2	4″)) (S	LD)							EST				881	I
672		PAV MI		TY	I	-c																
		URN LAN ANE LIN								./20 ./80							300 842				165 11	
	.لـــ							Ŧ	L'IL.	./ 00		Ľ					042	шг				
																			TOT	TAL	176	E
		DA11 1-	RKR	TY	I	[−A	-A															
672	REFL							1	ΕA	/80	L	F					386	LF			5	E
672	P.	ASS			~					110	– –					_						-
672	P. S	ASS INGLE 1	NO I	PASS				1	ΕA	/40								LF LF			180	
672	P. S D	ASS	NO I	PASS				1 1	EA EA	/40 /40 /20	L	F				7	832	LF		2		E

Sheet 28 **Control** 0025-05-024, ETC

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL:	0268-02-037
COUNTY :	FAYETTE
LENGTH :	47,637.00 FT = 9.022 MI
LIMITS :	FROM 0.6 MI S OF FM 2436
	TO SCHULENBURG C-L

HWY:	US 77
TYPE:	SEAL COAT
PROJECT:	#9
TRAFFIC:	5866 VPD

LIMITS STA TO STA	LENGTH FT	FΤ	AREA SY
(1) STA 0+00.00 TO STA 93+63.00		24	24968
STA 93+63.00 TO STA 97+02.00	339.00	24-38	1168
STA 97+02.00 TO STA 99+37.00	235.00	38-40	1018
STA 99+37.00 TO STA 114+09.00	1472.00	40-36	6215
STA 114+09.00 TO STA 117+26.00	317.00	36-35	1250
STA 117+26.00 TO STA 119+72.00	246.00	35-24	806
STA 119+72.00 TO STA 135+81.00	1609.00	24	4291
STA 135+81.00 TO STA 139+52.00	371.00	24-36	1237
STA 139+52.00 TO STA 148+60.00	908.00	36-37	3682
STA 148+60.00 TO STA 153+53.00	493.00	37-36	1999
STA 153+53.00 TO STA 231+28.00	7775.00	36	31100
STA 231+28.00 TO STA 246+23.00	1495.00	36-24	4983
STA 246+23.00 TO STA 260+00.00	1377.00	24	3672
STA 260+00.00 TO STA 262+21.00	221.00	24-36	737
STA 262+21.00 TO STA 269+80.00	759.00	36	3036
STA 269+80.00 TO STA 275+17.00	537.00	36-24	1790
STA 275+17.00 TO STA 282+77.00	760.00	24	2027
STA 282+77.00 TO STA 298+32.00	1555.00	24-36	5183
STA 298+32.00 TO STA 476+37.00 (5)	17805.00	36	71220
	TOTAL TRAVEL LA	ANE AREA	170382
(1) STA 0+00.00 TO STA 93+63.00	9363.00	23	23928
STA 93+63.00 TO STA 135+81.00	4218.00	21	9842
STA 135+81.00 TO STA 139+52.00	371.00	24	989
STA 139+52.00 TO STA 153+53.00	1401.00	20	3113
STA 153+53.00 TO STA 169+62.00	1609.00	18	3218
STA 169+62.00 TO STA 212+05.00	4243.00	14	6600
STA 212+05.00 TO STA 231+28.00	1923.00	16	3419
STA 231+28.00 TO STA 246+23.00	1495.00	14	2326
STA 246+23.00 TO STA 260+00.00	1377.00	22	3366
STA 260+00.00 TO STA 262+21.00	221.00	23	565
STA 262+21.00 TO STA 269+80.00	759.00	22	1855
STA 269+80.00 TO STA 282+77.00	1297.00	23	3315
STA 282+77.00 TO STA 298+32.00	1555.00	22	3801
STA 298+32.00 TO STA 321+84.00	2352.00	24	6272
STA 321+84.00 TO STA 396+54.00	7470.00	20	16600
STA 396+54.00 TO STA 476+37.00 (5)	7983.00	22	19514

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[US 77 PROJECT #9 CONT

LIMITS STA TO STA

ADDITIONAL AREA AT SWISS ALP

INTE	ERSE	CTIONS		
FM	3171	1		
FM	1383	3		
FM	956			
FM	615			
COU	JNTY	ROADS	(12	EA)

(1)	STA	0+00.00	=	MP:	19.685	=	ΤR
(5)	STA	476+37.00	=	MP:	28.707	=	ΤR

(2) NO EQUATIONS

- (3) NO EXCEPTIONS
- (4) NO RAILROAD CROSSINGS

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Sheet 29

Control 0025-05-024, ETC

Sheet 29

Control 0025-05-024, ETC

0268-02-037	FAYETTE	CO. CONT'	р]
LENGI FT	H WII F	DTH T 	AREA SY
174.	00 30	0	580
TOTAL AD	DITIONAL 2	AREA	580

	VAR	VAR	83
	VAR	VAR	110
	VAR	VAR	115
	VAR	VAR	107
	VAR	VAR	1093
TOTAL	1508		

RM 502+1.249 RM 512+0.270



Proje	ct Number:				Shee	et 30		
Coun	ty: GONZALES, ETC		Control 0025-05-024, ETC					
Highv	vay: UA 90, ETC							
י]	JS 77 PROJECT #9	CONT 0268-02-0	37 FA	YETTE CO.	CONT ' D]		
	BASIS	OF ESI	IMAT	E 				
ITEM	DESCRIPTION	RATE	BASIS	QUANTIT	'Y UNI	Т		
316	ASPH (AC-20-5TR) TRAVEL LANES SHOULDERS ADDITIONAL AREA INTERSECTIONS	0.50 GAL/SY	580	SY	290	GAL		
					137189			
662	AGGR (TY-PE GR-3 SAC-B) TRAVEL LANES SHOULDERS ADDITIONAL AREA INTERSECTIONS WK ZN PAV MRK SHT TERM LANE LINE TURN LANE WK ZN PAV MRK SHT TERM CENTERLINE GORE BEGIN/END NO PASSING	1 CY/110 SY 1 CY/110 SY (TAB)TY W 1 EA/40 LF 1 EA/20 LF 1 EA/40 LF 2 EA/20 LF	580 1508 23469 4857 4857	SY SY TOTAL LF	5 14 2556 587 243 830	СҮ СҮ ЕА ЕА ЕА ЕА ЕА ЕА		
				TOTAL				
666	REFL PAV MRK TY I(W)8" TURN LANE	(DOT) (100MIL) 3 LF/12 LF	2165	LF	541	LF		
666	REFL PAV MRK TY I(W)8" TURN LANE	(SLD) (100MIL)	EST		2692	LF		
666	RE PM W/RET REQ TY I(W) LANE LINE			LF	5867	LF		

County: GONZALES, ETC

Highway: UA 90, ETC

[ı	US 7	77 PF	ROJEC!	r #:	9		COI	NT 02	68-	02	-03	37
			ΒA	S	I	S	0	F	Е	S	т	I
ITEM		DESCRII	PTION				I	RATE				B
666	RE	PM W/RET EDGELINE		ΤY	Ι()	W)4′	' (SL	D)(10	00 M	IL)		
666	RE	PM W/RET PASS SINGLE NO					10	K) (10 LF/40 LF/40) L1	E		
666	RE	PM W/RET SINGLE NG DOUBLE NG GORE	O PAS	S	Ι(Y)4″	'(SL	D) (10)0M:	IL)		
668	PRI	efab pav i stop bar		чс	: (W) (24	1″)(SLD)				
668	PRI	EFAB PAV I LT TURN	MRK T	YC	W) :) (AF	RROW)				
668	PRI	EFAB PAV I "ONLY"	MRK T	чс	: (W) (WC	ORD)					
668	PRI	efab pav i gore cro:			: (Y) (24	1″)(SLD)				
672	RE	FL PAV MR LANE LIN TURN LAN	E	I-	ъс			A/80 A/20				

Sheet 30 Control 0025-05-024, ETC FAYETTE CO. CONT'D]----

ESTIMATE _____ TE | BASIS | QUANTITY | UNIT _____ (100MIL) EST 91285 LF (100MIL) '/40 LF 573 LF 143 LF '/40 LF 5807 LF 1452 LF _____ 1595 LF TOTAL (100MIL) 5807 LF 5807 LF 37641 LF X 2 75282 LF 2549 LF X 4 10196 LF _____ TOTAL 91285 LF LD) 40 LF EST EST 10 EA 10 EA EST LD) EST 1442 LF /80 LF 23469 LF 293 EA 4857 LF /20 LF 243 EA _____ TOTAL 536 EA

County: GONZALES, ETC

Highway: UA 90, ETC

---[US 77 PROJECT #9 CONT 0268-02-037 FAYETTE CO. CONT'D]---B A S I S O F E S T I M A T E ITEM | DESCRIPTION | RATE | BASIS | QUANTITY | UNIT 672 REFL PAV MRKR TY II-A-A PASS 1 EA/80 LF 573 LF 7 EA SINGLE NO PASS 1 EA/40 LF 5807 LF 145 EA

Project Number:

Sheet 31

Control 0025-05-024, ETC

County: GONZALES, ETC

Highway: UA 90, ETC

2	REFL PAV MRKR TY II-A-A							
	PASS	1 EA/80		573			7	
		1 EA/40		5807			145	
		1 EA/40		37641			941	
	GORE	2 EA/20	LF	2549	LF	X 2	510	
						TOTAL	1603	

Sheet 31

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0334-07-007 COUNTY : FAYETTE LENGTH : 18,021.00 FT = 3.413 MI LIMITS : FROM LEE C/L TO FM 153	HWY: FM 448 TYPE: SEAL COAT PROJECT: #10 TRAFFIC: 446 VPD	
LIMITS STA TO STA	LENGTH WIDTH FT FT	AREA SY
(1) STA 0+00.00 TO STA 179+21.00 STA 179+21.00 TO STA 180+21.00 (5)	17921.00 24-27 100.00 27-31	50776
	TOTAL TRAVEL LANE AREA	51098
INTERSECTIONS CITY STREETS (4 EA)	VAR VAR	302
	TOTAL INTERSECTION AREA	302

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 448 PROJECT #10

LIMITS STA TO STA

(1)	STA	0+00.00	=	MP:	0.000	=	TRM
(5)	STA	180+21.00	=	MP:	3.413	=	TRM

(2) NO EQUATIONS

(3) NO EXCEPTIONS

(4) NO AT GRADE RAILROAD CROSSINGS

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Control 0025-05-024, ETC

Sheet 32

Sheet 32 **Control** 0025-05-024, ETC CONT 0334-07-007 FAYETTE CO. CONT'D]---LENGTH WIDTH AREA FΤ FΤ SY _____ 454+0.091 456+1.507



Project Number:			Sheet 33		Proje
County: GONZALES, ETC		Control	C	Coun	
Highway: UA 90, ETC					Highv
[FM 448 PROJECT	#10 CONT 0334-07-	-007 FAYETTE	со. сомт'р]		[1
BAS	IS OF EST	IMATE			
ITEM DESCRIPTION	RATE		NTITY UNIT		ITEM
316 ASPH (TIER II) TRAVEL LANES	0.50 GAL/SY 0.50 GAL/SY	51098 SY	151 GAL		666
		тол	 TAL 25700 GAL		
	С-В) 1 СҮ/110 SY 1 СҮ/110 SY				666
		TO	TAL 468 CY		
662 WK ZN PAV MRK SHT		18021 LF	451 53		668
BEGIN/END NO PA		EST	451 EA 10 EA		
		то	FAL 461 EA		672
666 REFL PAV MRK TY II EDGELINE	(W) 4" (SLD)	EST	36042 LF		
666 REFL PAV MRK TY II PASS SINGLE NO PASS	(Y)4"(BRK) 10 LF/40 LF 10 LF/40 LF		1900 LF 1152 LF		
			TAL 3052 LF		
666 REFL PAV MRK TY II	(Y)4"(SLD)				
SINGLE NO PASS DOUBLE NO PASS		4608 LF 5813 LF X 2			
		TO	TAL 16234 LF		

EST

36042 LF

666 REF PROF PAV MRK TY I(W)4"(SLD)(100MIL)

EDGELINE

ject Number:

nty: GONZALES, ETC

hway: UA 90, ETC

[1	FM 448 I	ROJEC	ст #	‡10		CONT	033	34-	07-	-00)7		FA	YEI	TE CO.	CONT ' D]
		ВA	S			OF					м	A	Т	E			
ITEM	DESCRII	PTION									AS1	S		Ι ζ	QUANTIT	Y UNI	
666	REF PROF PA	V MRK		•	•	• • •			•								
	PASS															1900	LF
	SINGLE N	O PAS	S		10) LF/4	0 L	F				46	8 0	LF		1152	LF
															TOTAL	3052	LF
666	REF PROF PA	W MRK	ͲV	тс	v) 4"	((תדצ	100	мтт									
000	SINGLE N			Τ(1/3		100		.,			46	0.8	न.म		4608	Т. F
	DOUBLE N		-													11626	
	200222 1		-									00					
															TOTAL	16234	LF
668	PREFAB PAV I	MRK T	хc	(W)	(24″)) (SLD)											
	STOP BAR				•							Ε	ST			12	LF
672	REFL PAV MR	KR TY	II	-A-2	A												
					-	EA/80	LF					76	00	LF		95	ΕA
	SINGLE N												8 0	LF		115	ΕA
	DOUBLE N	O PAS	S		1	EA/40	LF					58	13	LF		145	ΕA
															TOTAL	355	EA

PROJECT #10	CONT 0334-07-	007 FAYETTE CO. C	:омт'д]
	OF EST	IMATE	
		BASIS QUANTITY	
PROF PAV MRK TY I(Y)4 SS NGLE NO PASS	10 LF/40 LF	7600 LF 4608 LF	1900 LF 1152 LF
		TOTAL	3052 LF
PROF PAV MRK TY I(Y) NGLE NO PASS DUBLE NO PASS	4"(SLD)(100MIL)	4608 LF 5813 LF X 2	
		TOTAL	16234 LF
B PAV MRK TY C(W)(2 4 OP BAR	4") (SLD)	EST	12 LF
NGLE NO PASS	1 EA/80 LF 1 EA/40 LF	7600 LF 4608 LF 5813 LF	115 EA
		TOTAL	355 EA

Sheet 33

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0416-01-002 COUNTY : FAYETTE LENGTH : 1,639.00 FT = 0.310 MI LIMITS : FROM US 77 TO END OF MAINTENANCE	HWY: SS 92 TYPE: SEAL COAT PROJECT: #11 TRAFFIC: 871 VPD
LIMITS STA TO STA	LENGTH WIDTH AREA FT FT SY
<pre>(1) STA 0+00.00 TO STA 3+28.00 STA 3+28.00 TO STA 14+87.00 STA 14+87.00 TO STA 15+92.00 STA 15+92.00 TO STA 16+39.00 (5)</pre>	328.00 38 1385 1159.00 28 3606 105.00 60 700 47.00 28 146
	TOTAL TRAVEL LANE AREA 5837
INTERSECTIONS CITY STREETS (4 EA)	VAR VAR 173
	TOTAL INTERSECTION AREA 173

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[SS 92 PROJECT #11

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 0.023 = TRM 588-0.285 (5) STA 16+39.00 = MP: 0.333 = TRM 588+0.025

(2) NO EQUATIONS

(3) NO EXCEPTIONS

(4) NO RAILROAD CROSSINGS

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Control 0025-05-024, ETC

Sheet 34

Sheet 34 **Control** 0025-05-024, ETC CONT 0416-01-002 FAYETTE CO. CONT'D]---LENGTH WIDTH AREA FΤ SY FT_____ AMANDA ANDERLE 08/01/2022 DATE



Project Number: Sheet 35 County: GONZALES, ETC **Control** 0025-05-024, ETC Highway: UA 90, ETC ---[SS 92 PROJECT #11 CONT 0416-01-002 FAYETTE CO. CONT'D]---BASIS OF ESTIMATE _____ ITEM | DESCRIPTION | RATE | BASIS | QUANTITY | UNIT _____ 316 ASPH (TIER I) TRAVEL LANES0.48 GAL/SY5837 SYINTERSECTIONS0.48 GAL/SY173 SY 2802 GAL

83 GAL _____

				TOTAL	2885	GAL
316		1 CY/110 SY 1 CY/110 SY	5837 SY 173 SY			СҮ СҮ
				TOTAL	55	CY
662	WK ZN PAV MRK SHT TERM(TA CENTERLINE	B)TY Y-2 1 EA/40 LF	1639 LF		41	EA
666	RE PM W/RET REQ TY I(W)4" EDGELINE	(SLD) (100MIL)	EST		3278	LF
666	RE PM W/RET REQ TY I(Y)4" DOUBLE NO PASS	(SLD) (100MIL)	1639 LF	X 2	3278	LF
672	REFL PAV MRKR TY II-A-A Double no pass	1 EA/40 LF	1639 LF		41	EA

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

Sheet 35

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 1262-01-017 COUNTY : FAYETTE LENGTH : 35,250.00 FT = 6.676 MI LIMITS : FROM SH 95 TO GONZALES C/L			
LIMITS STA TO STA	LENGTH FT	WIDTH FT	AREA SY
<pre>(1) STA 0+00.00 TO STA 264+16.00 STA 264+16.00 TO STA 268+06.00 STA 268+06.00 TO STA 347+69.00 STA 347+69.00 TO STA 352+50.00 (5)</pre>	390.00 7963.00	27 24 28 29	79248 1040 24774 1550
	TOTAL TRAVEL	LANE AREA	106612
ADDITIONAL AREA @ MAILBOX TURNOUTS	VAR TOTAL ADDIT		993 993
INTERSECTIONS SH 95 FM 2762 COUNTY ROADS (7 EA)	VAR VAR VAR	VAR VAR VAR	466 242 756
	TOTAL INTERSE	CTION AREA	1464

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 1115 PROJECT #12

LIMITS STA TO STA

(1)	STA	0+00.00	=	MP:	9.960	=	TRM
(5)	STA	352+50.00	=	MP:	16.636	=	TRM

(2) NO EQUATIONS

(3) NO EXCEPTIONS

(4) NO RAILROAD CROSSINGS

amanda anderle Hing, P.E.

DESIGN ENGINEER

Sheet 36

Control 0025-05-024, ETC

Sheet 36 **Control** 0025-05-024, ETC CONT 1262-01-017 FAYETTE CO. CONT'D]---LENGTH WIDTH AREA FΤ SY FT_____ RM 470-0.008 RM 478+0.005 AMANDA ANDERLE FLING 08/01/2022 DATE 10598

Project Number:	
County: GONZALES, ETC	
Highway: UA 90, ETC	
[FM 1115 PROJECT #12 CC	ON'
BASIS OF	'
ITEM DESCRIPTION RA	TE
666 REF PROF PAV MRK TY I(Y)4"(BRK PASS 10 LF SINGLE NO PASS 10 LF	7/4
666 REF PROF PAV MRK TY I(Y)4"(SLD SINGLE NO PASS DOUBLE NO PASS) (
668 PREFAB PAV MRK TY C(W)(24")(SL	(ם
STOP BAR	-,
668 PREFAB PAV MRK TY C(W)(36")(YL	ď
672 REFL PAV MRKR TY II-A-A	
PASS 1 EA/ SINGLE NO PASS 1 EA/ DOUBLE NO PASS 1 EA/	40

Sheet 37

Control 0025-05-024, ETC

M 1115 P	ROJE	СТ	#1	.2		CONT	12	:62 ⁻	-01	-0	17		FZ	AYE	TTE	co.	CON	T'D]
E					0	F	Е	s	т	I	м	A	т	Е					
DESCRIPI	ION					RATE													т
REF PROF PAV PASS SINGLE NO	MRK	ΤY	I	(Y)	4″(B 10	rk) (1 lf/40	.001) LI	MII F	.)			63	324	LF	,		1	.581 197	LF
															TO	TAL		5778	
REF PROF PAV SINGLE NO DOUBLE NO	PASS	5	I	(Y)	4″ (S	LD) (1	.001	MII	.)							2			
															TO	TAL	40	374	LF
PREFAB PAV MF Stop bar	K TI	сc	(W)) (2	4″)(SLD)]	EST					28	LF
PREFAB PAV MF	K TY	сc	(W)) (3	6″)(YLD I	RI)]	EST					5	EA
REFL PAV MRKF	R TY	II	-A-	-A															
PASS						A/80									7			79	ΕA
SINGLE NO	PASS	3			1 E	A/40	LF					16	786	LF	7			420	ΕA
DOUBLE NO																		295	
															то	TAL		794	

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 1264-01-016 COUNTY : FAYETTE LENGTH : 24,598.00 FT = 4.658 MI LIMITS : FROM SH 159 TO SH 71	HWY: FM 955 TYPE: SEAL COAT PROJECT: #13 TRAFFIC: 1884 VPD	
LIMITS STA TO STA	LENGTH WIDTH FT FT	AREA SY
<pre>(1) STA 0+00.00 TO STA 0+92.00 STA 0+92.00 TO STA 1+60.00 STA 1+60.00 TO STA 4+30.00 (3) (3) STA 4+42.00 TO STA 171+08.00 STA 171+08.00 TO STA 177+61.00 STA 177+61.00 TO STA 187+00.00 STA 187+00.00 TO STA 194+55.00 STA 194+55.00 TO STA 246+10.00 (5)</pre>	92.00 30 68.00 28 270.00 27 16666.00 26 653.00 30 939.00 27 755.00 30 5155.00 27 TOTAL TRAVEL LANE AREA	307 212 810 48146 2177 2817 2517 15465
ADDITIONAL AREA HISTORICAL MARKER	VAR VAR TOTAL ADDITIONAL AREA	171 171
INTERSECTIONS COUNTY ROADS & CITY STREETS (7 EA)	VAR VAR TOTAL INTERSECTION AREA	747 747

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 955 PROJECT #13 CONT

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 0.000 = TRM 4(5) STA 246+10.00 = MP: 4.660 = TRM 4

(2) NO EQUATIONS

- (3) EXCEPTION: STA 4+30.00 TO STA 4+42
- (4) RAILROAD CROSSING: 1 RETAINED STA

Amanda Anderle

DESIGN ENG

Sheet 38

			Sh	neet 38	
	C	ontrol 0()25-05-02	24, ETC	
NT 1264-01-0	16 FAY	ETTE CO	. CONT'	[ם	
	LENGTH		H	AREA	
	FT ======	FT ======		SY =====	
464-0.024					
468+0.663					
42.00 = -12.	$00 \ FT = -0$	0.002 MI	I(RR XII	NG)	
A 4+30.00 TC					
			TE	OF TEN	
~11.		2			
Hing, P.E.	08/01/2	2022	AMANDA AI	NDERLE FLING	
GINEER	DA	re 'i	••••••••••••	5989	

ounty: GONZ	ALES, ETC			Control 0	025-05-024	, ETC
ighway: UA 9	0, ETC					
[FM 955	PROJECT #13	CONT 126	4-01-016 F	AYETTE C	O. CONT'D]
	BASIS	OF E	STIMAT	Е		
	SCRIPTION					СТ
316 ASPH (T TRAV ADDI	ier i) El lanes		72452			GAL
				TOTA	L 35217	
TRAV ADDI	-PE GR-3 SAC-B) EL LANES TIONAL AREA RSECTIONS	1 CY/110 SY 1 CY/110 SY 1 CY/110 SY	171	L SY L SY 7 SY	2 7	CY CY
				TOTA	L 668	
CENT	AV MRK SHT TERM(T ERLINE N/END NO PASSING		24598 ES:	Ľ	10	EA
5 66 REFL PA EDGE	V MRK TY II(W)4″(LINE	SLD)	EST	ſ	49196	LF
PASS	v mrk ty II(y)4"(le no pass	10 LF/40 LF	5898 6490	3 LF) LF	1475 1623	
				TOTA	L 3098	LF
SING	v mrk ty ii(y)4″(Le no pass Le no pass	SLD)) LF 4 LF X 2 TOTA		LF
666 RE PM W	/RET REQ TY I(W)4 LINE	"(SLD)(100MI	: L) ES:	_	860	

County: GONZALES, ETC

Highway: UA 90, ETC

[1	FM 955	PRO	JEC	T #	13	;		CONT	1	264	-0	1-	01	6		F	AYE	ΓTE	co.	CONT ' E)]	
								F		E	S !	г	I	М	A	т	Е					
ITEM	DESCR	IPTI	ION					RATE													I	г –
	RE PM W/RE DOUBLE	T RE	EQ 1	ΓY																86	0	LI
666	REF PROF E EDGELIN		MRK	ΤY	I	(W)	4″ (\$	SLD) ((10	00M	IL)]	ESI				4919	6	LI
666	REF PROF E PASS SINGLE						10	LF/4	10	LF											3	ΓF
																		TO	TAL	309		
666	REF PROF E SINGLE DOUBLE	NO E	PASS	5	I	(Y)	4″ (SLD) ((10	00м	IL)									649 2348	8	LI
																		TO	TAL	2997		
668	PREFAB PAN STOP BA RAILROA	AR) (2	4″)	(SLD)												32	0	LI
																		TO	TAL			
668	PREFAB PAV	7 MRF	к ту	с	(W)) (R	R X	ING)]	EST				:	2	E
672	REFL PAV M PASS SINGLE DOUBLE	NO E	PASS	5			1 I	EA/80 EA/40 EA/40) I	Γ					6	490	LF LF LF			74 162 294	2 4	EA EA
																		TO	TAL		 0	

Sheet 39 **Control** 0025-05-024, ETC

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 2348-01-007 COUNTY : FAYETTE LENGTH : 10,259.00 FT = 1.942 MI LIMITS : FROM FM 609 TO US 77	HWY: FM 2436 TYPE: SEAL COAT PROJECT: #14 TRAFFIC: 1606 VPD	
LIMITS STA TO STA	LENGTH WIDTH FT FT	SY
(1) STA 0+00.00 TO STA 102+59.00 (5)		27357
	TOTAL TRAVEL LANE AREA	27357
(1) STA 0+00.00 TO STA 3+49.00 STA 3+49.00 TO STA 102+59.00 (5)	349.00 20 9910.00 18	776 19820
	TOTAL SHOULDER AREA	20596
INTERSECTIONS US 77 ADDITIONAL @ CHURCH COUNTY ROADS (3 EA)	VAR VAR 393.00 18 VAR VAR	729 786 290
	TOTAL INTERSECTION AREA	1805

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 2436 PROJECT #14

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 0.044 = TRM 586+0.000 (5) STA 102+59.00 = MP: 1.986 = TRM 586+1.942

(2) NO EQUATIONS

(3) NO EXCEPTIONS

(4) NO RAILROAD CROSSINGS

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Control 0025-05-024, ETC

Sheet 40

Sheet 40 **Control** 0025-05-024, ETC CONT 2348-01-007 FAYETTE CO. CONT'D]---LENGTH WIDTH AREA FΤ FTSY _____ AMANDA ANDERLE 08/01/2022

DATE



Project Number:	Sheet 41			ct Number:
County: GONZALES, ETC	-05-024, ETC	Control 0025		y: GONZALES, ETC
Highway: UA 90, ETC				vay: UA 90, ETC
[FM 2436 PROJECT #14 CO	соит]	-007 FAYETTE CO. (CT #14 CONT 2348-0	TM 2436 PROJECT
BASIS OF		IMATE	SIS OF EST	BAS
ITEM DESCRIPTION RAT	 / UNIT	BASIS QUANTITY	RATE	DESCRIPTION
666 REF PROF PAV MRK TY I(Y)4"(BRK) PASS 10 LF/ SINGLE NO PASS 10 LF/	13131 GAL 10298 GAL 903 GAL 24332 GAL	27357 SY 20596 SY 1805 SY TOTAL	0.50 GAL/SY	ASPH (AC-20-5TR) TRAVEL LANES SHOULDERS INTERSECTIONS
666 REF PROF PAV MRK TY I (Y) 4" (SLD)	24332 GAL	TOTAL		
SINGLE NO PASS DOUBLE NO PASS	249 CY 187 CY 16 CY	27357 SY 20596 SY 1805 SY	1 CY/110 SY	AGGR(TY-PE GR-3 SAC TRAVEL LANES SHOULDERS INTERSECTIONS
	452 CY	TOTAL		
668 PREFAB PAV MRK TY C(W)(24")(SLE STOP BAR				
668 PREFAB PAV MRK TY C(W)(WORD) "STOP"	256 EA 10 EA	10259 LF EST	1 EA/40 LF	WK ZN PAV MRK SHT T CENTERLINE BEGIN/END NO PAS:
"AHEAD"	266 EA	TOTAL		
			I(W)4″(SLD)	REFL PAV MRK TY II(
672 REFL PAV MRKR TY II-A-A PASS 1 EA/8	20518 LF	EST		EDGELINE
SINGLE NO PASS 1 EA/4 DOUBLE NO PASS 1 EA/4	1234 LF 975 LF	4935 LF 3901 LF	10 LF/40 LF	REFL PAV MRK TY II (PASS SINGLE NO PASS
	2209 LF	TOTAL		
			I (Y) 4" (SLD)	REFL PAV MRK TY II(
	3901 LF 2802 LF	3901 LF 1401 LF X 2		SINGLE NO PASS DOUBLE NO PASS
	 6703 LF	TOTAL		
	20518 LF	EST	TY I(W)4"(SLD)(100MIL)	REF PROF PAV MRK TY EDGELINE

Sheet 41

PROJECT	#14	CONT	2348-0	1-007	Fay	ETTE CO.	CONT'D]	
				' I M A				
TION			I			QUANTIT	Y UNIT	
	Y I(Y)4	" (BRK) (1	LOOMIL)		935 I	F	1234 1	Ē
PASS		10 LF/40 10 LF/40) LF	4	901 I	JE JF	975 1	LF
						TOTAL	2209 1	
	Y I(Y)4	"(SLD)(LOOMIL)	2	0.01 -	-	2001	
) PASS) PASS						lf X 2		LF
						TOTAL	6703 1	
IRK TY C	C(W)(24	") (SLD)			EST		16 1	. F
							10 1	16
IRK TY C	:(W) (WO	RD)			EST		1 1	- 7
					EST		1 F 	ΞA
						TOTAL		
R TY II								
PASS		1 EA/80 1 EA/40				JF JF	62 H 98 H	
		1 EA/40 1 EA/40				ĿF		ΞA
						TOTAL	195 H	

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 2382-01-005 COUNTY : FAYETTE LENGTH : 32,321.00 FT = 6.121 MI LIMITS : FROM FM 1291 TO SH 71	HWY: FM 2503 TYPE: SEAL COAT PROJECT: #15 TRAFFIC: 882 VPD	
LIMITS STA TO STA	LENGTH WIDTH FT FT	AREA SY
(1) STA 0+00.00 TO STA 38+28.00 STA 38+28.00 TO STA 323+21.00 (5)	3828.00 26 28493.00 25	11059 79147
	TOTAL TRAVEL LANE AREA	
INTERSECTIONS COUNTY ROADS & CITY STREETS (20 EA) SH 71	VAR VAR VAR VAR	1629 77
	TOTAL INTERSECTION AREA	1706

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 2503 PROJECT #15

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 0.008 = TRM 464-0.016 (5) STA 323+21.00 = MP: 6.129 = TRM 470+0.136

(2) NO EQUATIONS

(3) NO EXCEPTIONS

(4) NO RAILROAD CROSSINGS

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Control 0025-05-024, ETC

Sheet 42

Sheet 42 **Control** 0025-05-024, ETC CONT 2382-01-005 FAYETTE CO. CONT'D]---LENGTH WIDTH AREA FΤ FTSY _____

08/01/2022 DATE



County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 2503 PROJECT #15 CONT 2382-01-005 FAYETTE CO. CONT'D]---BASIS OF ESTIMATE _____ ITEM | DESCRIPTION | RATE | BASIS | QUANTITY | UNIT _____ 316 ASPH (TIER II) 0.48 GAL/SY 0.48 GAL/SY 90206 SY 43299 GAL TRAVEL LANES INTERSECTIONS 1706 SY 819 GAL _____ TOTAL 44118 GAL 316 AGGR (TY-PE GR-3 SAC-B) 820 CY 1 CY/110 SY 90206 SY TRAVEL LANES 16 CY INTERSECTIONS 1 CY/110 SY 1706 SY _____ 836 CY TOTAL 662 WK ZN PAV MRK SHT TERM (TAB) TY Y-2 CENTERLINE 32321 LF 808 EA 1 EA/40 LF EST BEGIN/END NO PASSING 10 EA _____ TOTAL 818 EA 666 REFL PAV MRK TY II(Y)4"(BRK) 1476 LF 5905 LF PASS 10 LF/40 LF SINGLE NO PASS 10 LF/40 LF 15963 LF 3991 LF _____ TOTAL 5467 LF 666 REFL PAV MRK TY II(Y)4"(SLD) SINGLE NO PASS 15963 LF 15963 LF 20526 LF

DOUBLE NO PASS 10263 LF X 2 _____ TOTAL 36489 LF 666 REF PROF PAV MRK TY I(Y)4"(BRK)(100MIL) 10 LF/40 LF 5905 LF PASS 1476 LF SINGLE NO PASS 10 LF/40 LF 15963 LF 3991 LF _____

> TOTAL 5467 LF

Sheet 43

Control 0025-05-024, ETC

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 2503 PROJECT #15

BASIS OF ESTIMATE

- ITEM | DESCRIPTION
- 666 REF PROF PAV MRK TY I(Y)4"(SLD)(100MIL)

SINGLE NO PASS DOUBLE NO PASS

668 PREFAB PAV MRK TY C(W) (24") (SLD) STOP BAR

672 REFL PAV MRKR TY II-A-A

							TOTAL	730	EA
DOUBLE NO	PASS	1	EA/40	LF	10263	LF		257	ΕA
SINGLE NO	PASS	1	EA/40	LF	15963	LF		399	ΕA
PASS		1	EA/80	LF	5905	LF		74	ΕA

Sheet 43 **Control** 0025-05-024, ETC CONT 2382-01-005 FAYETTE CO. CONT'D]---_____ | RATE | BASIS | QUANTITY | UNIT _____ 15963 LF 15963 LF 10263 LF X 2 20526 LF _____ TOTAL 36489 LF EST 12 LF

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

TYPE: PROJECT:	SEAL COAT #16	
-		AREA SY
TOTAL TRAVEL	LANE AREA	61586
14663.00	20	18738 32584 51322
		890 890
	TYPE: PROJECT: TRAFFIC: LENGTH FT 8432.00 14663.00 TOTAL TRAVEL 8432.00 14663.00 TOTAL SHOU	8432.00 24 14663.00 24 TOTAL TRAVEL LANE AREA

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[UA 77 PROJECT #16 CONT

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 17.808 = TRM (5) STA 258+20.00 = MP: 22.698 = TRM

(2) NO EQUATIONS

(3) EXCEPTION: STA 84+32.00 TO STA 112

(4) NO RAILROAD CROSSINGS

Amanda Anderle

DESIGN ENG

Control 0025-05-024, ETC

Sheet 44

			Sheet 44	
		Control 00	25-05-024, ETC	
0269-03	8-039	LAVACA CO	. сомт'д]	
	FT	WIDTH FT	AREA SY	
498+1.3 504+0.39				
		00 FT = -0.5 DGE REPLACEM	16 MI ENT PROJECT)	
			TE OF TON	
41.				!,
Hling., P.	E.	00/01/2022	AMANDA ANDERLE FLINO	
INEER		DATE 7	105989	
			111112	

County: GONZALES, ETC

Highway: UA 90, ETC

[t	JA 7	7		E	R	JJI	EC1	2 #	16	5			со	N	. 0	26	9-	03	-0	39				L	٩V	ACA CO.	CO	NT ' D]
						в	A	s	I	:	S		0	F		E	: :	5	т	I	М	A	т	E	2				
ITEM																										QUANTIT	Y	UNI	T
316		PH (TI	ER	I)																							~ -
		SHO	VE TTT.	다. 고민	LA R S	NE	S					0	.48 29	ว ว	GAL	ג / נ . / כ	SY Sy					61 51	58 32	6 2	SY Sy		2	29561 24635	GA
		INT	ER	SE	CT	IO	NS					0	.48	3	GAI	1/5	SY					01	89	0	SY		2	427	
																										TOTAL		54623	
21.6	10			DE	~	-	2		~ .	- 1																			
316	AG	TRA	YE	PE L :	G LA	r- NE	з S	SAG	<u>ا – ن</u>	в)		1	C	<i>Z</i> /	11C) 5	SY					61	58	6	SY			560	СҮ
		SHO	UL	DEI	RS							1	C	-, [/	11C		SΥ					51	32	2	SY			467	
		INT	ER	SE	СТ	IO	NS					1	CZ	<u> </u>	110) 2	SΥ						89	0	SY			8	
																										TOTAL		 1035	
662	wĸ	ZN	PA	vi	MR	к	SH	т	геı	RM	(т	AB) TY	2	Y-2	2													
002		CEN																				23	09	5	LF			577	ΕA
		BEG	IN	/EI	ND	Ν	0	PAS	SS	ΙN	G												ES	Т				10	
																										TOTAL		 587	
666	RE					RE	Q	TY	I	(พ)4	″ (SLI	5)	(10	10	1 11	·)						_					
		EDG	ΕL	IN	£																		ES	Т			4	16190	LF
666	RE	PM PAS													(10 /40							Л	66	0	ть			1165	ты
		SIN	GL	Εl	NO	Ρ	AS	S				1	0 I 0 I	ur LF	/4C	, 1) I	JF JF											2968	
																										TOTAL		 4133	
666	DE	DM		השנו			•	— 37	-	/ 37					(10														
666	RE	SIN							т	(1)4	" (i	511)	(10	U	111	1)				11	87	0	LF		1	L1870	LF
		DOU	BL	Εl	NO	Ρ	AS	S														5	81	0	LF	X 2		L1620	
																										TOTAL		23490	
668	וקק	IFAB	Þ	ΔV	м	Вĸ	т	γí	2.0	۳N	(2	4″) (9	37.	נח														
000	- 10	RES							•	•	•				•		_	_					ES	_				560	

Project Number:

Sheet 45

Control 0025-05-024, ETC

County: GONZALES, ETC

Highway: UA 90, ETC

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[UA 77	PROJECT #16		CONT 0	269	-03-0)39 1	LAVACA CO. CONT'D]					
	BASIS		OF	E	SТ	ІМАТ	Е					
ITEM DE	SCRIPTION		RATE			BASIS	QUANTITY	UNIT				
672 REFL PA	AV MRKR TY II-A-A											
PASS	5	1	EA/80	LF		4660	LF	58 EA				
SINC	GLE NO PASS	1	EA/40	LF		11870	LF	297 EA				
DOUE	BLE NO PASS	1	EA/40	LF		5810	LF	145 EA				
							TOTAL	500 EA				

Sheet 45

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0269-04-040 COUNTY : LAVACA LENGTH : 32,763.00 FT = 6.205 MI LIMITS : FROM MUSTANG CREEK TO SH 95	HWY: UA 77 TYPE: SEAL COAT PROJECT: #17 TRAFFIC: 3173 VPD	
LIMITS STA TO STA	LENGTH WIDTH FT FT	AREA SY
<pre>(1) STA 0+00.00 TO STA 90+76.00 STA 90+76.00 TO STA 95+66.00 STA 95+66.00 TO STA 119+46.00 STA 119+46.00 TO STA 124+36.00 STA 124+36.00 TO STA 180+76.00 STA 180+76.00 TO STA 182+96.00 STA 182+96.00 TO STA 199+36.00 STA 199+36.00 TO STA 201+56.00 STA 201+56.00 TO STA 327+63.00 (5)</pre>	9076.0024490.0024-362380.0036490.0036-245640.0024220.0024-361640.0036220.0036-24	24203 1633 9520 1633 15040 733 6560 733 33619
	TOTAL TRAVEL LANE AREA	93674
<pre>(1) STA 0+00.00 TO STA 90+76.00 STA 90+76.00 TO STA 95+66.00 STA 95+66.00 TO STA 119+46.00 STA 119+46.00 TO STA 124+36.00 STA 124+36.00 TO STA 180+76.00 STA 180+76.00 TO STA 182+96.00 STA 182+96.00 TO STA 199+36.00 STA 199+36.00 TO STA 201+56.00 STA 201+56.00 TO STA 327+63.00 (5)</pre>	9076.0020490.0020-242380.0024490.0024-205640.0020220.0020-241640.0024220.0024-2012607.0020	20169 1198 6347 1198 12533 538 4373 538 28016
	TOTAL SHOULDER AREA	74910
INTERSECTIONS FM 531 (2 EA) COUNTY ROADS (7 EA)	VAR VAR VAR VAR	165 466
	TOTAL INTERSECTION AREA	631

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[UA 77 PROJECT #17

LIMITS

STA TO STA

(1) STA 0+00.00 = MP: 22.743 = TRM 504+0.397 (5) STA 327+63.00 = MP: 28.948 = TRM 510+0.600

(2) NO EQUATIONS

(3) NO EXCEPTIONS

(4) NO RAILROAD CROSSINGS

amanda anderle Hing, P.E.

DESIGN ENGINEER

Sheet 46

Control 0025-05-024, ETC

Sheet 46 **Control** 0025-05-024, ETC CONT 0269-04-040 LAVACA CO. CONT'D]---LENGTH WIDTH AREA FΤ SY \mathbf{FT} _____ _____ AMANDA ANDERLE FLING 08/01/2022

DATE



Proje	ct Number:				Shee	t 47
Coun	ty: GONZALES, ETC		Со	ntrol 0025	-05-024,	, ETC
Highv	vay: UA 90, ETC					
[1	JA 77 PROJECT #17	CONT 0269-04-04	0 LAV	ACA CO.	CONT ' D]
	BASIS	OF EST:	ГМАТЕ			
	DESCRIPTION					Τ
	ASPH (TIER I) TRAVEL LANES SHOULDERS INTERSECTIONS	0.48 GAL/SY 0.48 GAL/SY	93674 S 74910 S	Y Y	44964 35957	GAL GAL
				TOTAL	81224	GAL
316	AGGR (TY-PE GR-3 SAC-B) TRAVEL LANES SHOULDERS INTERSECTIONS	1 CY/110 SY 1 CY/110 SY 1 CY/110 SY	93674 S 74910 S 631 S	Y	6	СҮ
				TOTAL	1539	CY
662	WK ZN PAV MRK SHT TERM(T TURN LANE		830 L	F	42	EA
662		1 EA/40 LF 2 EA/20 LF		FX2	324 151 10	EA EA EA
				TOTAL	 1188	
666	REFL PAV MRK TY I(W)8"(D TURN LANE	OT) (100MIL) 3 LF/12 LF	580 L	E,	145	LF
666	REFL PAV MRK TY I(W)8"(S TURN LANE	LD) (100MIL)	EST		250	LF
666	RE PM W/RET REQ TY I(W)4 EDGELINE	"(SLD)(100MIL)	EST		65526	LF
666	RE PM W/RET REQ TY I(Y)4 PASS SINGLE NO PASS	10 LF/40 LF	2695 L 15100 L	E	674 3775	LF
				TOTAL	4449	

County: GONZALES, ETC Highway: UA 90, ETC ---[UA 77 PROJECT #17 CONT BASIS OF ------ITEM | DESCRIPTION | RAT ------666 RE PM W/RET REQ TY I(Y)4"(SLD) SINGLE NO PASS DOUBLE NO PASS GORE CONTINUOUS LT TURN 668 PREFAB PAV MRK TY C(W) (ARROW) LT TURN 668 PREFAB PAV MRK TY C(Y) (24") (SLD GORE CROSSHATCH 672 REFL PAV MRKR TY I-C TURN LANE 1 EA/2 672 REFL PAV MRKR TY II-A-A PASS 1 EA/3 SINGLE NO PASS 1 EA/4 DOUBLE NO PASS 1 EA/-GORE 2 EA/ CONTINUOUS LT TURN 1 EA/

Project Number:

Sheet 47

г 0	269	-0-	4-0	940			I	AVA	CA	co.	С	ON	T'D]	
•	Е	s	т	I	М	A	т	E							
TE				_B.	ASI	IS		(2U <i>P</i>	ANTI	 TY		UNI	T	_
(10	00М	[L)				100 10	620	LF LF	X X	2 4 2		6	480	LE LE	2
									т	OTAL					7
						I	EST						12	EÆ	ł
D)						I	EST						384	LF	?
20	LF					8	830	LF					42	EÆ	ł
40 20	LF LF LF LF LF					15: 10(1(LF LF LF	Х					EA EA EA	f f f
									т	DTAL			.139		7

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL:	0346-06-054
COUNTY :	LAVACA
LENGTH :	113,700.00 FT = 21.534 MI
LIMITS :	FROM DEWITT C/L
	TO JACKSON C/L

HWY:	SH 111
TYPE:	SEAL COAT
PROJECT:	#18
TRAFFIC:	5624 VPD

	LIM STA TO	O STA			LENGTH FT	WIDTH FT	AREA SY
====== (1) STA			11+83.00		======================================	24	3155
STA	11+83.00	TO STA	13+33.00		150.00	24-48	600
STA	13+33.00	TO STA	29+28.00		1595.00	48	8507
STA	29+28.00	TO STA	36+28.00		700.00	48-24	2800
STA					39283.00	24	104755
	429+11.00				300.00	24-36	1000
	432+11.00		440+16.00		805.00	36	3220
	440+16.00				300.00	36-24	1000
	443+16.00				16078.00	24	42875
-	603+94.00				480.00	24-36	1600
	608+74.00				977.00	36	3908
	618+51.00				470.00	36-24	1567
	623+21.00			(3)	8642.00	24	23045
	714+12.00			(3)	24636.00	24	65696
, ,	962+33.00			(3)	2218.00	24	5915
3) STA	992+49.00	TO STA	1151+32.00	(5)	15883.00	24	42355
					TOTAL TRAVEL 1	LANE AREA	311998
1) STA	0+00.00	TO STA	11+83.00		1183.00	16	2103
STA	11+83.00	TO STA	603+94.00		59211.00	20	131580
STA	603+94.00	TO STA	709+63.00	(3)	10569.00	20	23487
(3) STA	714+12.00	TO STA		(3)	24636.00	20	54747
	962+33.00			(3)	2218.00	20	4929
3) STA	992+49.00	TO STA	1151+32.00	(5)	15883.00	20	35296
					TOTAL SHOUL	LDER AREA	252142
					TOTAL SHOUL	LDER AREA	25214
INTERSE FM 144					VAR	VAR	196
	ROADS (15	EA)			VAR	VAR	1370
	ON/OFF RAM		EA)		VAR	VAR	814
					TOTAL INTERSEC	LION AREA	2380

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[SH 111 PROJECT #18

LIMITS STA TO STA

(1)	STA	0+00.00	=	MP:	0.000	=	ΤR
(5)	STA	1151+32.00	=	MP:	21.805	=	ΤR

(2) NO EQUATIONS (3) EXCEPTIONS: STA 709+63.00 TO STA 714+12.00 = -449 FT = -0.085 MI

(4) NO RAILROAD CROSSINGS

Amanda Anderle Fling, P.E.

DESIGN ENGINEER

Sheet 48

Control 0025-05-024, ETC

Sheet 48 **Control** 0025-05-024, ETC CONT 0346-06-054 LAVACA CO. CONT'D]---LENGTH WIDTH AREA FΤ SY \mathbf{FT} _____ _____ 'RM 520+0.012 'RM 540+1.853 (BRUSHY CREEK BRIDGE) STA 960+48.00 TO STA 962+33.00 = -185 FT = -0.035 MI (LAVACA RIVER RELIEF BRIDGE) STA 984+51.00 TO STA 992+49.00 = -798 FT = -0.151 MI (LAVACA RIVER BRIDGE)

08/01/2022 DATE



Project Number:			Sheet 49
County: GONZALES, ETC		Control 0025	5-05-024, ETC
Highway: UA 90, ETC			
[SH 111 PROJECT	9 #18 CONT 0346-	06-054 LAVACA CO.	CONT'D]
BAS	SIS OF ES	TIMATE	
ITEM DESCRIPTION	RATE	BASIS QUANTIT	Y UNIT
316 ASPH (TIER I) STA 603+94.00 TO			
SHOULDERS	0.30 GAL/SY	144086 SY 118459 SY 814 SY	35538 GAL 244 GAL
		TOTAL	 79008 GAL
316 ASPH (AC-20-5TR) STA 0+00.00 TO ST		167010 SV	47015 CAT
SHOULDERS	0.20 GAL/SI 0.30 GAL/SY 0.30 GAL/SY	167912 SY 133683 SY 1566 SY	47013 GAL 40105 GAL 470 GAL
		TOTAL	87590 GAL
	1 CY/145 SY 1 CY/145 SY	311998 SY 252142 SY 2380 SY	
		TOTAL	3907 CY
662 WK ZN PAV MRK SHT			
TURN LANE ISLAND LANE LINE	1 EA/20 LF 1 EA/20 LF 1 EA/40 LF	600 LF	36 EA 30 EA 68 EA
		TOTAL	134 EA
662 WK ZN PAV MRK SHT CENTERLINE	1 EA/40 LF	111645 LF	
GORE	2 EA/20 LF	2055 LF X 2 TOTAL	412 EA 3203 EA
666 REFL PAV MRK TY I TURN LANE	(W) (8") (SLD) (100MIL)	EST	710 LF
ISLAND		EST	600 LF
		TOTAL	1310 LF

County: GONZALES, ETC

Highway: UA 90, ETC

8					
[\$	SH 111 PROJECT #18 CONT 0346-	-06-054 I	LAVACA CO.	CONT ' D]
	BASIS OF ES		Е		
	DESCRIPTION RATE	BASIS		Y UNI	 Т
666	RE PM W/RET REQ TY I(W)4"(BRK)(100MIL LANE LINE 10 LF/40 LF)		675	LF
666	RE PM W/RET REQ TY I(W)4"(SLD)(100MIL EDGELINE			230020	LF
666	REPM W/RET REQ TY I(Y)4"(BRK)(100MILPASS10 LF/40 LFSINGLE NO PASS10 LF/40 LF) 59931 38544	LF LF	14983 9636	LF
			TOTAL	24619	LF
666	RE PM W/RET REQ TY I(Y)4"(SLD)(100MIL SINGLE NO PASS DOUBLE NO PASS GORE	38544 11629	LF LF X 2 LF X 4 TOTAL	23258	LF LF
668	PREFAB PAV MRK TY C(W)(18")(SLD) RESTRICTED WIDTH BRIDGE CROSSHATCH SCHOOL ZONE	EST			LF LF
668	PREFAB PAV MRK TY C(W)(24")(SLD) STOP BAR GORE CROSSHATCH CROSSWALK	EST EST EST		264	LF
668	PREFAB PAV MRK TY C(W)(ARROW) RT TURN	EST		2	EA
668	PREFAB PAV MRK TY C(W) (WORD) "ONLY"	EST		2	EA

		Shee	t 49
(Control 0025-	05-024,	, ETC
			_
L	AVACA CO. C	ONT ' D]
M A T 	E 		
SIS	QUANTITY	UNI	T
2700	LF	675	LF
EST	2	30020	LF
59931 38544		14983 9636	

County: GONZALES, ETC

Highway: UA 90, ETC

[SH 11	11 proje	СТ #18	CONT	0346-06	-054 I	AVACA CO. CO	DNT ' D	1
					IMAT			J
 ITEM	DESCRIPTION	1	RATE		BASIS	QUANTITY	UNI	 Т
	FAB PAV MRK I GORE CROSSHAI		4") (SLD)		EST		524	LF
	l pav mrkr ty Turn lane Island Lane line		1 EA/20 1 EA/20 1 EA/80	LF	710 600 2700	LF	36 30 34	ΕA
						TOTAL	100	EA
	l pav mrkr ty pass single no pas double no pas	SS	1 EA/40	LF	38544	LF LF LF	964	ΕA
	GORE		2 EA/20	LF	2055	LF X 2		
						TOTAL	2416	EA

Project Number:

Sheet 50

Control 0025-05-024, ETC

County: GONZALES, ETC

Highway: UA 90, ETC

Sheet 50

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0346-11-009 COUNTY : DEWITT LENGTH : 1,025.00 LF = 0.194 MI LIMITS : FROM S KENNEDY ST TO LAVACA C/L	TYPE: PROJECT:	SH 111 SEAL COAT #19 5026 VPD	
LIMITS STA TO STA	LENGTH FT	WIDTH FT	AREA SY
(1) STA 0+00.00 TO STA 10+25.00 (5)	1025.00	22	2506
	TOTAL TRAVEL L	ANE AREA	2506
(1) STA 0+00.00 TO STA 10+25.00 (5)	1025.00	16	1822
	TOTAL SHOUL	DER AREA	1822

Project Number:

---[SH 111 PROJECT #19 CONT

Control 0025-05-024, ETC

Sheet 51

Project Number:					Sheet 51
County: GONZA	LES, ETC	Control 002	5-05-024, ETC		
Highway: UA 90	, ETC				
[SH 111	PROJECT #19	CONT 0346-11-	-009	DEWITT CO.	CONT'D]
I STZ	LIMITS A TO STA ========		LENGTH FT	WIDTH FT	AREA SY
(5) STA 10+25.0(2) NO EQUATION					
(3) NO EXCEPTIO		NGS			
		ideule Hing, , P.E.		1/2022 AMA	NDA ANDERLE FLING
	DESIGN	ENGINEER	Ē	DATE	105989

Proje	ct Number:			Sheet 52	
Coun	ty: GONZALES, ETC	Control 0025-05-024, ETC			
Highv	vay: UA 90, ETC				
[:	SH 111 PROJECT #19	CONT 0346-11-009	DEWITT CO.	CONT'D]	
	B A S I S	OF ESTIMAT	E 		
ITEM	DESCRIPTION	RATE BASIS		UNIT	
316	ASPH (AC-20-5TR) TRAVEL LANES SHOULDERS	0.28 GAL/SY 0.30 GAL/SY	2506 SY 1822 SY	547 GAL	
			TOTAL	 1249 GAL	
316	AGGR(TY-PE GR-4 SAC-B) TRAVEL LANES SHOULDERS	1 CY/145 SY	2506 SY 1822 SY	17 CY 13 CY	
			TOTAL	30 CY	
662	WK ZN PAV MRK SHT TERM(CENTERLINE	TAB)TY Y-2 1 EA/40 LF	1025 LF	26 EA	
666	RE PM W/RET REQ TY I(W) EDGELINE	4"(SLD)(100MIL)	EST	2050 LF	
666	RE PM W/RET REQ TY I(Y) Double no pass	4"(SLD)(100MIL)	1025 LF X 2	2050 LF	
668	PREFAB PAV MRK TY C(W)(SCHOOL ZONE	18") (SLD)	EST	38 LF	
668	PREFAB PAV MRK TY C(W)(CROSSWALK	24") (SLD)	EST	30 LF	
672	REFL PAV MRKR TY II-A-A DOUBLE NO PASS		1025 LF	26 EA	

County: GONZALES, ETC

Highway: UA 90, ETC

Sheet 52

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0941-03-111 COUNTY : DEWITT LENGTH : 25,814.00 FT = 4.889 MI LIMITS : FROM US 183 TO VICTORIA C/L	HWY: FM 237 TYPE: SEAL COAT PROJECT: #20 TRAFFIC: 1680 VPD	
LIMITS STA TO STA	LENGTH WIDTH FT FT	AREA SY
(1) STA 0+00.00 TO STA 258+14.00 (5)	25814.00 28	80310
	TOTAL TRAVEL LANE AREA	80310
INTERSECTIONS COUNTY ROADS (10 EA)	VAR VAR	1140
	TOTAL INTERSECTION AREA	1140

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 237 PROJECT #20 CONT

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 10.584 = TRM 56(5) STA 258+14.00 = MP: 15.473 = TRM 57

(2) NO EQUATIONS

(3) NO EXCEPTIONS

(4) NO RAILROAD CROSSINGS

Amanda Anderle

DESIGN ENGIN

Control 0025-05-024, ETC

Sheet 53

			Sh	eet 53	
		Control (025-05-02	24, ETC	
0941-03-1	11	DEWITT C	O. CONT	D]	
	LENGTH FT	WID] FT		AREA SY	
564+0.316					
570+0.011					
			ATE	OF TEX	
Fling, P.E.			*		'',
INEER	(D8/01/2022	*********	ANDERLE FLINC	
		2		05989	111.
			Tress	ONAL ENG	

Project Number:	Sheet 54			ect Number:
County: GONZALES, ETC	5-05-024, ETC	Control 0025		ty: GONZALES, ETC
Highway: UA 90, ETC				way: UA 90, ETC
[FM 237 PROJECT #20 CON	СОМТ'Д]	-111 DEWITT CO.	CONT 0941-03	FM 237 PROJECT #20
BASIS OF		IMATE	S OF ESI	BASI
ITEM DESCRIPTION RAT	Y UNIT	BASIS QUANTIT	RATE	DESCRIPTION
666REF PROF PAV MRK TY I (Y) 4" (BRK)PASS10 LF/SINGLE NO PASS10 LF/	40155 GAL 570 GAL	80310 SY 1140 SY		ASPH (TIER I) TRAVEL LANES INTERSECTIONS
	40725 GAL	TOTAL		
666 REF PROF PAV MRK TY I(Y)4"(SLD) SINGLE NO PASS DOUBLE NO PASS	10 CY	80310 SY 1140 SY	1 CY/110 SY	
	740 CY	TOTAL		
672 REFL PAV MRKR TY II-A-A PASS 1 EA/8 SINGLE NO PASS 1 EA/4 DOUBLE NO PASS 1 EA/4	645 EA 10 EA	25814 LF EST	1 EA/40 LF	WK ZN PAV MRK SHT TERM CENTERLINE BEGIN/END NO PASSIN
DOUBLE NO PASS 1 EA/4	655 EA	TOTAL		
6056 PREFORMED IN-LANE (TRANS)RUMBLE @ US 183 INTERSECTION	51628 LF	EST	"(SLD)	REFL PAV MRK TY II(W)4 EDGELINE
	1775 LF 3407 LF	7100 LF 13626 LF	"(BRK) 10 LF/40 LF 10 LF/40 LF	REFL PAV MRK TY II(Y)4 PASS SINGLE NO PASS
	 5182 LF	TOTAL		
	13626 LF 10176 LF	13626 LF 5088 LF X 2	"(SLD)	REFL PAV MRK TY II(Y)4 SINGLE NO PASS DOUBLE NO PASS
	23802 LF	TOTAL		
	51628 LF	EST	W)4"(SLD)(100MIL)	REF PROF PAV MRK TY I(EDGELINE

Sheet 54

Control 0025-05-024, ETC

r #20	CONT	0941-03	-111	D	EWI	тт со.	CONT ' D]
SIS	OF							
	RATE						Y UNI	т
) LF					1775 3407	LF
						TOTAL	5182	
TY I(Y)4'	"(SLD)(1	LOOMIL)					13626 10176	
				5000			23802	
1	1 EA/80 1 EA/40 1 EA/40	LF	1		LF		89 341 127	EA EA
						TOTAL	557	
(TRANS) H SECTION	RUMBLE S	STRIP		EST			40	LF

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 3012-01-008 COUNTY : DEWITT LENGTH : 16,786.00 FT = 3.179 MI LIMITS : FROM END OF STATE MAINTENANCE TO SH 72	HWY: FM 298 TYPE: SEAL C PROJECT: #21 TRAFFIC: 1022 V	COAT
LIMITS STA TO STA	LENGTH WID FT FI	TH AREA SY
(1) STA 0+00.00 TO STA 167+86.00 (5)	16786.00 26	48493
	TOTAL TRAVEL LANE A	 IREA 48493
INTERSECTIONS COUNTY ROADS (5 EA)	VAR VA	IR 791
	TOTAL INTERSECTION A	REA 791

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 2980 PROJECT #21

LIMITS STA TO STA _____

(1) STA 0+00.00 = MP: 0.000 = TRM 526+0.000(5) STA 167+86.00 = MP: 3.179 = TRM 528+1.186

(2) NO EQUATIONS

(3) NO EXCEPTIONS

(4) NO RAILROAD CROSSINGS

DESIGN ENGINEER

Sheet 55

Control 0025-05-024, ETC

Control 0025-05-024, ETC

Sheet 55

CONT 3012-01-008 DEWITT CO. CONT'D]---

LENGTH	WIDTH	AREA
FT	FT	SY

Amanda Anderle Hing, P.E.

08/01/2022 DATE



County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 2980 PROJECT #21 CONT 3012-01-008 DEWITT CO. CONT'D]---BASIS OF ESTIMATE _____ ITEM | DESCRIPTION RATE | BASIS | QUANTITY | UNIT _____ 316 ASPH (TIER II) 0.46 GAL/SY 0.46 GAL/SY 48493 SY 22307 GAL TRAVEL LANES 791 SY INTERSECTIONS 364 GAL _____ TOTAL 22671 GAL 316 AGGR (TY-PE GR-3 SAC-B) 1 CY/110 SY 48493 SY 441 CY TRAVEL LANES 791 SY 7 CY INTERSECTIONS 1 CY/110 SY _____ 448 CY TOTAL 662 WK ZN PAV MRK SHT TERM (TAB) TY Y-2 CENTERLINE 1 EA/40 LF 16786 LF 420 EA BEGIN/END NO PASSING EST 10 EA _____ TOTAL 430 EA 666 REFL PAV MRK TY II(Y)4"(BRK) 10 LF/40 LF 1459 LF 365 LF PASS SINGLE NO PASS 10 LF/40 LF 6340 LF 1585 LF _____ TOTAL 1950 LF 666 REFL PAV MRK TY II(Y)4"(SLD) SINGLE NO PASS 6340 LF 6340 LF DOUBLE NO PASS 8935 LF X 2 17870 LF _____ TOTAL 24210 LF 666 RE PM W/RET REQ TY I(W)4"(SLD)(100MIL) EST 33572 LF EDGELINE

666 REF PROF PAV MRK TY I(Y)4"(BRK)(100MIL) PASS 10 LF/40 LF 1459 LF 365 LF SINGLE NO PASS 10 LF/40 LF 6340 LF 1585 LF

TOTAL 1950 LF

Sheet 56

Control 0025-05-024, ETC

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

[FM 2980	PROJECT #21	CONT 3012-0	1-008 DEWITT CO.	CONT'D]
	BASIS	OFEST	IMATE	
ITEM DESCR	RIPTION	RATE	BASIS QUANTIT	Y UNIT
666 REF PROF H	PAV MRK TY I ()	(100MIL) (100MIL)		
SINGLE	NO PASS		6340 LF	6340 LF
DOUBLE	NO PASS		8935 LF X 2	17870 LF
			TOTAL	24210 LF
672 REFL PAV M	MRKR TY II-A-A	7		
PASS		1 EA/80 LF	1459 LF	18 EA
SINGLE	NO PASS	1 EA/40 LF	6340 LF	159 EA
DOUBLE	NO PASS	1 EA/40 LF	8935 LF	223 EA
			TOTAL	400 EA

M 2980	PF	ROJE	СТ	#2	21		CONT	30)12	-01	-0	08		Γ	EWI	TT	co.	CO	D'TN]	-
	в	A	S	I	S	0	F	E	S	т	I	М	A	т	Е						
DESCR:	IPT	ION					RATE				B.	ASI	S		Ç	QUA	NTII	ΓY	UNI	T	
REF PROF P.	AV	MRK	ΤY	I	(Y)	4″ (s	SLD) (1	L001	MIL	·)											
SINGLE	NO	PASS	S										63	340	LF				6340	LF	
DOUBLE	NO	PASS	S										89	935	LF	Х	2	1	7870	LF	
																то	TAL	2	4210	LF	
REFL PAV M	RKR	TY	II	-A	-A																
PASS						1 E	EA/80	LF					14	59	LF				18	ΕA	
SINGLE	NO	PASS	S			1 E	EA/40	LF					63	340	LF				159	ΕA	
DOUBLE	NO	PASS	S			1 E	EA/40	LF					89	35	LF				223	EA	
																то	TAL		400	EA	

Sheet 56

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 3012-02-006 COUNTY : DEWITT LENGTH : 13,544.00 FT = 2.565 MI LIMITS : FROM SH 72 TO END OF STATE MAINTENANCE	HWY: FM 2980 TYPE: SEAL COAT PROJECT: #22 TRAFFIC: 168 VPD						
LIMITS STA TO STA	LENGTH WIDTH FT FT	AREA SY					
(1) STA 0+00.00 TO STA 127+18.00 (3) (3) STA 129+91.00 TO STA 138+17.00 (5)	12718.00 26 826.00 26	36741 2386					
	TOTAL TRAVEL LANE AREA	39127					
INTERSECTIONS COUNTY ROADS (3 EA)	VAR VAR	494					
	TOTAL INTERSECTION AREA	494					

Project Number:

---[FM 2980 PROJECT #22 CON

Amanda Anderle

Sheet 57

Project Number:					Sheet 57
County: GONZALE	ES, ETC			Control 002	5-05-024, ETC
Highway: UA 90, E	TC				
[FM 2980	PROJECT #22	CONT 3012-02	2-006	DEWITT CO.	CONT'D]
LIMI			LENGTH	WIDTH	AREA
STA 7	FO STA ====================================		FT ======	FT ========	SY ======
(1) STA 0+00.00 (5) STA 138+17.00					
(2) NO EQUATIONS (3) EXCEPTION: ST	FA 127+18.00 TO	STA 129+91.00			
(4) NO RAILROAD (CROSSINGS		(SMITH	I CREEK BRID	GE)
					TE OF TELL
	Amanda A	nderle Hing., P.E.	ſ	08/01/2022 A	MANDA ANDERLE FLIN
	DESIG	N ENGINEER		DATE	105989



County: GONZALES, ETC

Highway: UA 90, ETC

[1		000					200	#	<u></u>			~~~		20	10	0.2	0	06		-	TELET		~~	C O1		1
[1	EM 2	900	,			8 A																.11		0.0	NT D]
ITEM		 D)ES	CRI	PT	ION					F	RAT	'= -				BZ	AS1	 IS		Ç	QUAN	 1TIT	Y	UNI	——— Т
316		TRA	AVE	LI	LAN	IES				0 0	.4 .4	6 0	GAL GAL	/s: /s:	 [391: 4	27 94	SY SY				.7998 227	GAI
																						TO	TAL		.8225	
316	AGO																									
		TRA INT	AVE TER	L I SEC	LAN CTI	IES IONS				1 1	C.	Y/1 Y/1	L10 L10	SY SY	Č Č				391: 4	27 94	SY SY				356 4	СҮ
																						TOT	TAL		360	
662																			105						220	
						NO					E.	A/4	10	LF					135 E						339 10	ΕA
																						TOT	TAL		349	EA
666				MF									/ 4 0		_				2.4	0.4					074	
		PA: SII		ΕN	10	PAS	S			1 1	0	LF/ LF/	40 40 40	ΓI	!' 				34 64	94 40	LF. TL				874 1610	LF
																						TOT	TAL		2484	LF
666	REI					TY PAS		(Y)	4″ ((SL	D)								64	10	тъ				6440	тъ
						PAS																	2		7220	LF
																						TOT	TAL	1	.3660	LF
666	REI			PÆ	٩V	MRK	Т	2 1	(Y))			24	0.4	TE				074	T 173
		PAS SII		ΕN	10	PAS	S					LF/ LF/									$_{ m LF}$				874 1610	

Project Number:

Sheet 58

2484 LF

TOTAL

Control 0025-05-024, ETC

County: GONZALES, ETC

Highway: UA 90, ETC

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[FM 2980	PROJECT #22	CONT 3012-02-006	DEWITT CO. CONT'D]
	BASIS	OF ESTIMA	ТЕ
ITEM DESCH	RIPTION	RATE BASIS	QUANTITY UNIT
666 REF PROF	PAV MRK TY I(Y))4"(SLD)(100MIL)	
SINGLE	NO PASS	6	440 LF 6440 LF
DOUBLE	NO PASS	3	610 LF X 2 7220 LF
			TOTAL 13660 LF
672 REFL PAV	MRKR TY II-A-A		
PASS		1 EA/80 LF 3	494 LF 44 EA
SINGLE	NO PASS	1 EA/40 LF 6	440 LF 161 EA
DOUBLE	NO PASS	1 EA/40 LF 3	610 LF 90 EA
			TOTAL 295 EA

M 2980	PROJEC	ст #22	CONT	3012-02	2-006 1	DEWITT CO. (CONT'D]
	BAS	SIS	OF	ЕЅТ	ΙΜΑΤ	Е	
DESCR	IPTION		RATE		BASIS	QUANTITY	UNIT
REF PROF P	AV MRK	TY I(Y)4	"(SLD)(1	00MIL)			
SINGLE I	NO PASS				6440	LF	6440 LF
DOUBLE :	NO PASS				3610	LF X 2	7220 LF
						TOTAL	13660 LF
REFL PAV M	RKR TY	II-A-A					
PASS			1 EA/80	LF	3494	LF	44 EA
SINGLE :	NO PASS		1 EA/40	LF	6440	LF	161 EA
DOUBLE :	NO PASS		1 EA/40	LF	3610	LF	90 EA
						TOTAL	295 EA

Sheet 58

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0026-04-049 COUNTY : COLORADO LENGTH : 34,278.00 FT = 6.492 MI LIMITS : FROM FAYETTE C/L TO CR 210	HWY: US 90 TYPE: SEAL COAT PROJECT: #23 TRAFFIC: 4407 VPD	
LIMITS STA TO STA	LENGTH WIDTH FT FT	AREA SY
<pre>(1) STA 0+00.00 TO STA 48+00.00 STA 48+00.00 TO STA 51+50.00 STA 51+50.00 TO STA 71+74.00 STA 71+74.00 TO STA 74+24.00 STA 74+24.00 TO STA 120+54.00 STA 120+54.00 TO STA 342+78.00 (5)</pre>	4800.0024350.0024-362024.0036250.0036-244630.0024	12800 1167 8096 833 12347 59264
	TOTAL TRAVEL LANE AREA	
<pre>(1) STA 0+00.00 TO STA 47+20.00 STA 47+20.00 TO STA 48+00.00 STA 48+00.00 TO STA 72+54.00 STA 72+54.00 TO STA 110+20.00 STA 110+20.00 TO STA 120+54.00 STA 120+54.00 TO STA 131+61.00 STA 131+61.00 TO STA 272+67.00 STA 272+67.00 TO STA 280+40.00 STA 280+40.00 TO STA 342+78.00 (5)</pre>	4720.00 16 80.00 24 2454.00 24 3766.00 32 1034.00 12 1107.00 12 14106.00 18 773.00 4 6238.00 16 TOTAL SHOULDER AREA	8391 213 6544 13390 1379 1476 28212 344 11090 71039
INTERSECTIONS	TOTAL SHOULDER AREA	71039
COUNTY ROADS & CITY STREETS (8 EA)	VAR VAR TOTAL INTERSECTION AREA	1040 1040

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

[US 90	PROJECT	#23	CONT
	LIMITS STA TO STA		
(1) STA 0+ (5) STA 342+			
(2) NO EQUAT (3) NO EXCEP (4) NO AT GR	TIONS	D CROSSI	INGS

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Sheet 59

Control 0025-05-024, ETC

Sheet 59 **Control** 0025-05-024, ETC COLORADO CO. CONT'D]---0026-04-049 LENGTH WIDTH AREA FΤ FΤ SY ------740+0.797 748+0.504 AMANDA ANDERLE FLING 08/01/2022 DATE 10598

Project Number:	
County: GONZALES, ETC	
Highway: UA 90, ETC	

PROJECT #23

STA 0+00.00 TO STA 48+00.00

STA 120+54.00 TO STA 342+78.00

---[US 90

ITEM | DESCRIPTION

316 ASPH (AC-20-5TR)

TRAVEL LANES

TRAVEL LANES

INTERSECTIONS

TRAVEL LANES SHOULDERS

SHOULDERS

SHOULDERS

Sheet 60

Control 0025-05-024, ETC COLORADO CO. CONT'D]---BASIS OF ESTIMATE _____ | BASIS | QUANTITY | UNIT _____ 12800 SY 6144 GAL 8604 SY 4130 GAL STA 48+00.00 TO STA 120+54.00 (WEIMAR C-L) 22443 SY 5835 GAL 21313 SY 5968 GAL 1040 SY 291 GAL 59264 SY 28447 GAL 41122 SY 19739 GAL _____ TOTAL 70554 GAL

316 AGGR (TY-PE GR-3 SAC-B) STA 0+00.00 TO STA 48+00.00 1 CY/110 SY TRAVEL LANES 12800 SY 116 CY SHOULDERS 1 CY/110 SY 8604 SY 78 CY STA 48+00.00 TO STA 120+54.00 (WEIMAR C-L) 1 CY/110 SY 21313 SY 194 CY SHOULDERS INTERSECTIONS 1040 SY 9 CY 1 CY/110 SY STA 120+54.00 TO STA 342+78.00 TRAVEL LANES 1 CY/110 SY 59264 SY 539 CY SHOULDERS 1 CY/110 SY 41122 SY 374 CY _____ TOTAL 1310 CY

CONT 0026-04-049

| RATE

0.48 GAL/SY

0.26 GAL/SY

0.48 GAL/SY

0.48 GAL/SY

0.28 GAL/SY 0.28 GAL/SY

0.48 GAL/SY

316	AGGR(TY-PE GR-4 SAC-B) STA 48+00.00 TO STA 120 TRAVEL LANES		22443 SY	155 CY
662	WK ZN PAV MRK SHT TERM(TURN LANE	fab)ty w 1 EA/20 LF	95 LF	5 EA
662	WK ZN PAV MRK SHT TERM(CENTERLINE CONTINUOUS LT TURN GORE BEGIN/END NO PASSING	TAB)TY Y-2 1 EA/40 LF 1 EA/40 LF 2 EA/20 LF	32062 LF 1716 LF X 2 500 LF X 2 EST	802 EA 86 EA 100 EA 10 EA

TOTAL 998 EA

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

[JS 90 PROJECT #23 CONT 0026-04-04	49 COLORADO CO. CONT'D]
	BASIS OF EST	
ITEM	DESCRIPTION RATE	BASIS QUANTITY UNIT
	REFL PAV MRK TY I(W)8"(SLD)(100MIL) TURN LANE	EST 95 LF
666	REFL PAV MRK TY II(W)4"(SLD) EDGELINE	EST 56916 LF
666	REFL PAV MRK TY II(Y)4"(BRK)PASS10 LF/40 LFSINGLE NO PASS10 LF/40 LF	3908 LF 977 LF 13525 LF 3381 LF
		TOTAL 4358 LF
666	REFL PAV MRK TY II(Y)4"(SLD) SINGLE NO PASS DOUBLE NO PASS	13525 LF 13525 LF 8719 LF X 2 17438 LF TOTAL 30963 LF
666	RE PM W/RET REQ TY I(W)4"(SLD)(100MIL) EDGELINE PARKING LINES	EST 8882 LF EST 568 LF TOTAL 9450 LF
666	RE PM W/RET REQ TY I(Y)4"(BRK)(100MIL) CONTINUOUS LT TURN 10 LF/40 LF	1716 LF X 2 858 LF
666	RE PM W/RET REQ TY I(Y)4"(SLD)(100MIL) DOUBLE NO PASS CONTINUOUS LT TURN GORE	4441 LF X 2 8882 LF 1716 LF X 2 3432 LF 500 LF X 4 2000 LF

666 REF PROF PAV MRK TY I (W) 4" (SLD) (100MIL) EDGELINE

		Shee	t 60
(Control 0025-	05-024	, ETC
			_
COL	ORADO CO. CO	ONT ' D]
MAT	E 		
ASIS	QUANTITY	UNI	Т
EST		95	LF
EST		56916	LF
3908		977	
13525	ЪĔ	3381	

TOTAL	4358	LF

13525	LF			13525	LF
8719	LF	Х	2	17438	LF

14314 LF TOTAL

EST

56916 LF

iioje	ct Number:					Shee	et 61	Project Number:	
Count	ty: GONZAI	LES, ETC		Co	Control 0025-05-024, ETC			County: GONZALES	
łighv	ghway: UA 90, ETC							Highway: UA 90, E	ETC
[t	JS 90	PROJECT #23	CONT 0026-04-0	49 COLOR	ADO CO. C	CONT ' D]		
		BASIS	OFESI	IMATE					
TEM	DESC	RIPTION	RATE	BASIS	QUANTITY	UNI	 T		
666	REF PROF	PAV MRK TY I ()	()4"(BRK)(100MIL)						
			10 LF/40 LF 10 LF/40 LF	3908 LH 13525 LH	1	977 3381			
					TOTAL	 4358			
666		PAV MRK TY I() NO PASS	()4"(SLD)(100MIL)	13525 T.F	,	13525	. म.		
		NO PASS		8719 LE		17438	LF		
					TOTAL	30963			
668	DDFFAR DA	V MRK TY C(W)	(18%) (STD)						
000	SCHOOL			EST		124	LF		
668	PREFAB PA	V MRK TY C(W)	(24") (SLD)						
	STOP B		,	EST		85			
	CROSSW	SAR @ CROSSWALF	Υ.	EST EST		57 540			
		ROSSHATCH		EST		573			
					TOTAL	 1255			
					IOIAL	1255			
668	PREFAB PA LT TUR	N MRK TY C(W)	(ARROW)			4	EA		
672	REFL PAV	MRKR TY I-C							
	TURN L	ANE	1 EA/20 LF	95 LE	•	5	EA		
672		MRKR TY II-A-A							
	PASS		1 EA/80 LF	3908 LE		49			
		NO PASS	1 EA/40 LF 1 EA/40 LE	13525 LE		338 329			
		NO PASS NOUS LT TURN	1 EA/40 LF 1 EA/40 LF	13160 LE 1716 LE		329			
	GORE		2 EA/20 LF	500 LE		100	EA		
					TOTAL	 902			

Sheet 61

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0026-06-037 COUNTY : COLORADO LENGTH : 8,909.00 FT = 1.687 MI LIMITS : FROM FM 2434 TO FM 806	TYPE: PROJECT:	US 90 SEAL COAT #24 6103 VPD	
LIMITS	-	WIDTH	
STA TO STA	FT	FT	SY
(1) STA 0+00.00 TO STA 86+49.00			23064
STA 86+49.00 TO STA 89+09.00 (5)	260.00	36	1040
	TOTAL TRAVEL	LANE AREA	24104
(1) STA 0+00.00 TO STA 3+16.00	316.00	16	562
STA 3+16.00 TO STA 28+00.00	2484.00	12	3312
STA 28+00.00 TO STA 89+09.00 (5)	6109.00	16	10860
	TOTAL SHO	ULDER AREA	
ADDITIONAL AREA			
AREA IN FRONT OF WAREHOUSE YARD	465	26	1343
	TOTAL ADDIT	IONAL AREA	1343
INTERSECTIONS			
FM 2434	VAR	VAR	223
SH 71 S	VAR	VAR	293
SH 71 W	VAR	VAR	265
COUNTY ROADS & CITY STREETS (8 EA)	VAR	VAR	1067
	TOTAL INTERSE	CTION AREA	1848

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

[US 90	PROJECT	#24	CONT
	LIMITS STA TO STA		
(1) STA 0+0 (5) STA 89+0			
(2) NO EQUAT (3) NO EXCEB (4) NO AT GF	PTIONS	AD CROSS	SINGS

DESIGN ENGINEER

Control 0025-05-024, ETC

Sheet 62

Sheet 62 **Control** 0025-05-024, ETC COLORADO CO. CONT'D]---0026-06-037 LENGTH WIDTH AREA FΤ FΤ SY _____ 754+1.256 756+0.946

Amanda Anderle Fling, P.E.

08/01/2022 DATE



Projec	ct Number:				Shee	e t 63
Count	ty: GONZALES, ETC		(Control 0025	-05-024	, ETC
Highw	vay: UA 90, ETC					
[u	JS 90 PROJECT #24	CONT 0026-06-0	37 COLC	RADO CO. CO	ם'דאס]	
	BASIS	OF ES!				
ITEM	DESCRIPTION	RATE	BASIS	QUANTITY	UNI	
	ASPH (AC-20-5TR) TRAVEL LANES SHOULDERS ADDITIONAL AREA INTERSECTIONS	0.46 GAL/SY 0.46 GAL/SY 0.46 GAL/SY	24104 14734 1343	SY SY SY	11088 6778	GAL GAL GAL
				TOTAL	19334	GAL
316	AGGR (TY-PE GR-3 SAC-B) TRAVEL LANES SHOULDERS ADDITIONAL INTERSECTIONS	1 CY/110 SY 1 CY/110 SY	14734	SY SY	134 12 17	CY CY CY
662	WK ZN PAV MRK SHT TERM(T TURN LANE		13	LF	1	EA
662	WK ZN PAV MRK SHT TERM(T CENTERLINE CONTINUOUS LT TURN GORE BEGIN/END NO PASSING	•		LF LF X 2 LF X 2	10	EA EA EA
				TOTAL	258	
666	REFL PAV MRK TY I(W)(8") TURN LANE	(SLD) (100MIL)	EST		13	LF
666	REFL PAV MRK TY II(W)4"(EDGELINE	SLD)	EST		16941	LF
666	REFL PAV MRK TY II(Y)4"(PASS SINGLE NO PASS	BRK) 10 LF/40 LF 10 LF/40 LF	6023 500	LF LF	1506 125	
				TOTAL	1631	LF

BASIS OF ES

- 666 RE PM W/RET REQ TY I(Y)4"(BRK)(100MIL) CONTINUOUS LT TURN 10 LF/40 LF
- 666 RE PM W/RET REQ TY I(Y)4"(SLD)(100MIL) CONTINUOUS LT TURN GORE

672 REFL PAV MRKR TY I-C TURN LANE

Projec	et Number:		Sheet 63
Count	y: GONZALES, ETC	Control 0025	-05-024, ETC
Highw	yay: UA 90, ETC		
[т	IS 90 PROJECT #24 CONT 0026-06-037		
[(лиц —]
	BASIS OF ESTIM		
	DESCRIPTION RATE BASI		
	REFL PAV MRK TY II(Y)4"(SLD)	500 LF 1661 LF X 2	500 LF
		TOTAL	3822 LF
666	RE PM W/RET REQ TY I(Y)4"(BRK)(100MIL) CONTINUOUS LT TURN 10 LF/40 LF	125 LF	31 LF
666	RE PM W/RET REQ TY I(Y)4"(SLD)(100MIL) CONTINUOUS LT TURN GORE	125 LF X 2 127 LF X 4	250 LF 508 LF
		TOTAL	
666	REF PROF PAV MRK TY I(W)4"(SLD)(100MIL) EDGELINE	EST	16941 LF
666	REF PROF PAV MRK TY I(Y)4"(BRK)(100MIL)PASS10 LF/40 LFSINGLE NO PASS10 LF/40 LF	6023 LF 500 LF TOTAL	1506 LF 125 LF 1631 LF
666	REF PROF PAV MRK TY I(Y)4"(SLD)(100MIL) SINGLE NO PASS DOUBLE NO PASS	500 LF 1661 LF X 2	500 LF 3322 LF
668	PREFAB PAV MRK TY C(W)(24")(SLD) STOP BAR	TOTAL EST	3822 LF 110 LF

1 EA/20 LF 13 LF 1 EA

County: GONZALES, ETC

Highway: UA 90, ETC

---[US 90

PROJECT #24

COLORADO CO. CONT'D]---CONT 0026-06-037

BASIS OF ESTIMATE

ITEM DESCRIF	PTION	RA	 TE		BASIS	Q	UANTITY	UNI	 T
672 REFL PAV MRF	KR TY II-A-A								
PASS		1 EA	/80 LE	2	6023	LF		75	ΕA
SINGLE NO) PASS	1 EA	A/40 LE	2	500	LF		13	ΕA
DOUBLE NO) PASS	1 EA	A/40 LE	2	1661	LF		42	ΕA
CONTINUOU	JS LT TURN	1 EA	A/40 LE	2	125	LF	X 2	6	ΕA
GORE		2 EA	A/20 LF	?	127	LF	X 2	26	ΕA

162 EA TOTAL

Sheet 64

Control 0025-05-024, ETC

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

Sheet 64

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0027-01-048 COUNTY : COLORADO LENGTH : 10,589.00 FT = 2.005 MI LIMITS : FROM 0.75 MI EAST OF BS 71F TO IH 10	TYPE: PROJECT:	US 90 SEAL COAT #25 4523 VPD	
LIMITS STA TO STA	LENGTH FT	WIDTH FT	AREA SY
<pre>(1) STA 0+00.00 TO STA 102+59.00 STA 102+59.00 TO STA 105+39.00 STA 105+39.00 TO STA 105+89.00 (5)</pre>	10259.00 280.00 50.00	24 50 65	27357 1556 361
	TOTAL TRAVEL	LANE AREA	 29274
<pre>(1) STA 0+00.00 TO STA 17+67.00 STA 21+52.00 TO STA 25+98.00 STA 30+18.00 TO STA 40+96.00 STA 42+36.00 TO STA 57+78.00 STA 62+71.00 TO STA 102+59.00</pre>	1767.00 446.00 1078.00 1542.00 3988.00	14 14 14 14 14	2749 694 1677 2399 6204
	TOTAL SHO	ULDER AREA	13723
INTERSECTIONS COUNTY ROADS & CITY STREETS (8 EA) SOUTH IH 10 FRONTAGE RD (2 EA)	VAR VAR	VAR VAR	1568 587
	TOTAL INTERSE	CTION AREA	2155

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

[US 90	PROJECT	#25	CONT
	S	LIMITS STA TO STA		
		00.00 = MP: 9.00 = MP:		
(3)	NO EQUATI NO EXCEPI NO AT GRA		D CROSS	INGS

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Sheet 65

Control 0025-05-024, ETC

Sheet 65 **Control** 0025-05-024, ETC COLORADO CO. CONT'D]---0027-01-048 LENGTH WIDTH AREA FΤ FΤ SY ------RM 758+0.704 RM 760+1.573 AMANDA ANDERLE 08/01/2022 DATE 1059



County	: GONZALES, ETC		(Control 0025	-05-024	, ETC
Highwa	y: UA 90, ETC					
[US	3 90 PROJECT #25	CONT 0027-01-048	COL	ORADO CO.	CONT ' D]
	BASI	S OF EST	IMAT	E 		
TEM	DESCRIPTION	RATE				Т
316 2	ASPH (AC-20-5TR)		20274	C.V.	12166	CAT
	SHOULDERS	0.46 GAL/SY 0.46 GAL/SY	29274	SY	6313	GAL GAL
		0.46 GAL/SY	2155		991	GAL
				TOTAL	20770	
316 2	AGGR (TY-PE GR-3 SAC-B)) 1 CY/110 SY	2977 <i>1</i>	SV	266	cv
	SHOULDERS	1 CY/110 SY	13723	SY	125	CY
	INTERSECTIONS	1 CY/110 SY	2155	SY	20	СҮ
				TOTAL	411	
662 1	WK ZN PAV MRK SHT TER CENTERLINE	M(TAB)TY Y-2 1 EA/40 LF	10250	тъ	256	ር እ
	BEGIN/END NO PASSI		EST	111.	10	
				TOTAL	266	
666 1	REFL PAV MRK TY II(W)	4″(SLD))				
	EDGELINE		EST		21178	LF
666 1	REFL PAV MRK TY II(Y)	4″ (BRK)				
	PASS	10 LF/40 LF			173	
	SINGLE NO PASS	10 LF/40 LF	5842	Τ.F.	1461	
				TOTAL	1634	LF
666 1	REFL PAV MRK TY II(Y)	4″(SLD)				
	SINGLE NO PASS	- 、,	5842	LF	5842	LF
	DOUBLE NO PASS		3454	LF X 2		
				TOTAL	12750	
666 1	RE PM W/RET REQ TY I (Y)4"(SLD)(100MIL)			672	
000	ISLAND EDGELINE		EST		n/2	1.0

County: GONZALES, ETC

Highway: UA 90, ETC

[t	JS 90 PROJECT #25 CONT 0027-01-
	BASIS OF ES
ITEM	DESCRIPTION RATE
666	REF PROF PAV MRK TY I(W)4"(SLD)(100MI: EDGELINE
666	REF PROF PAV MRK TY I (Y) 4" (BRK) (100MI)PASS10 LF/40 LFSINGLE NO PASS10 LF/40 LF
666	REF PROF PAV MRK TY I(Y)4"(SLD)(100MI SINGLE NO PASS DOUBLE NO PASS
668	PREFAB PAV MRK TY C(W)(24")(SLD) STOP BAR RESTRICTED WIDTH BRIDGE
672	REFL PAV MRKR TY II-A-APASS1 EA/80 LFSINGLE NO PASS1 EA/40 LFDOUBLE NO PASS1 EA/40 LF

			Shee	t 66
	Con	t rol 0025	-05-024	, ETC
0027 01 049	COLORAI			
' EST	I M A T E			
	BASIS 0		7 UNI	Т
) (100MIL)				
	EST		21178	LF
) (100MIL)				
F/40 LF F/40 LF	690 L 5842 L		173 1461	LF LF
	5042 L			
		TOTAL	1634	ΓF.
) (100MIL)				
	5842 LF 3454 LF	X 2	5842 6908	LF LF
		TOTAL		
		IOIAL	12750	ЦЕ
D)				
	EST EST		105 652	
		TOTAL		
/00 15			~	
/80 LF	690 LF		9	EA

ΕA
ΕA

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 2349-01-009 COUNTY : COLORADO LENGTH : 15,792.00 FT = 2.990 MI LIMITS : FROM US 90A TO LAVACA C/L	HWY: FM TYPE: SE PROJECT: #2 TRAFFIC: 63	COAT	
LIMITS STA TO STA	LENGTH FT	WIDTH FT	AREA SY
(1) STA 0+00.00 TO STA 6+49.00 STA 6+49.00 TO STA 29+50.00 STA 29+50.00 TO STA 157+92.00 (5)	649.00 2301.00 12842.00	32	2452 8181 42807
	TOTAL TRAVEL I	LANE AREA	 53440
INTERSECTIONS COUNTY ROADS (2 EA)	VAR	VAR	306
CITY STREETS (13 EA) SCHOOL WIDENING	VAR VAR	VAR VAR	1398 842

TOTAL INTERSECTION AREA

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 2437 PROJECT #26

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 0.009 = TRM 502-0.017 (5) STA 157+92.00 = MP: 2.999 = TRM 506+0.001

(2) NO EQUATIONS

(3) NO EXCEPTIONS

(4) NO RAILROAD CROSSINGS

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Sheet 67

2546

Control 0025-05-024, ETC

Sheet 67 **Control** 0025-05-024, ETC CONT 2349-01-009 COLORADO CO. CONT'D]---LENGTH WIDTH AREA FΤ FTSY _____

08/01/2022 DATE



Project Number:			Sheet 68
County: GONZALES, ETC		Contro	l 0025-05-024, ETC
Highway: UA 90, ETC			
[FM 2437 PROJECT #	26 CONT 2349-01-009	COLORADO	CO. CONT'D]
BAS	IS OF EST	[M A T E	
TTEM DESCRIPTION	RATE		NTITY UNIT
	0.50 GAL/SY 0.50 GAL/SY		1273 GAL
		тс	 TAL 27993 GAL
316 AGGR (TY-PE GR-3 SA TRAVEL LANES INTERSECTIONS	С-В) 1 СY/110 SY 1 CY/110 SY	53440 SY 2546 SY	486 CY 23 CY
		тс	 TAL 509 CY
662 WK ZN PAV MRK SHT S CENTERLINE BEGIN/END NO PA	1 EA/40 LF	15792 LF EST TC	395 EA 10 EA 405 EA
666 REFL PAV MRK TY II EDGELINE	(W) 4" (SLD)	EST	31584 LF
666 REFL PAV MRK TY II PASS SINGLE NO PASS	(Y)4"(BRK) 10 LF/40 LF 10 LF/40 LF	3495 LF 9332 LF	2333 LF
		тс	 TAL 3207 LF
666 REFL PAV MRK TY II SINGLE NO PASS DOUBLE NO PASS	(Y) 4" (SLD)	9332 LF 2331 LF X	
		тс	DTAL 13994 LF
666 REF PROF PAV MRK T EDGELINE	Y I(W)4"(SLD)(100MIL)	EST	31584 LF

County: GONZALES, ETC

Highway: UA 90, ETC

										E		-	 						
	DESC																	/ UNI	Т
	REF PROF												 						
	PASS						10									LF		874	
	SINGLE	NO I	PASS	0			10	ЦĘ	/40	LĽ				9.	332	LΈ		2333	
																	TOTAL	3207	LI
666	REF PROF	PAV 1	MRK	TY	I	(Y)	4″ (SLD) (1	00м	IL)							
	SINGLE DOUBLE																X 2	4662	LI
																	TOTAL	13994	
668	PREFAB PA SCHOOL			C	(W)) (1	8″)	(SL	D)					Ι	EST			44	LI
668	PREFAB PA		к ту	C	(W)) (2	4″)	(SL	D)					т	200			70	.
	STOP B CROSSW														EST EST			70 30	LI
																	TOTAL		
672	REFL PAV	MRKR	TY	II-															
	PASS SINGLE	NO 1	סאפכ	,			1 1									LF LF		44 233	
	DOUBLE						1 1 1 1	EA/	40	LF						LF		58	ΕÆ
																	TOTAL	335	

Sheet 68

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 3205-03-014 COUNTY : COLORADO LENGTH : 29,604.00 FT = 5.606 MI LIMITS : FROM US 90A TO WHARTON C/L	HWY: FM 3013 TYPE: SEAL COAT PROJECT: #27 TRAFFIC: 2874 VPD	
LIMITS STA TO STA	LENGTH WIDTH FT FT	AREA SY
(1) STA 0+00.00 TO STA 296+04.00 (5)	29604.00 24	78944
	TOTAL TRAVEL LANE AREA	78944
(1) STA 0+00.00 TO STA 296+04.00 (5)	29604.00 20	65787
	TOTAL SHOULDER AREA	65787
INTERSECTIONS COUNTY ROADS (7 EA)	VAR VAR	1706
	TOTAL INTERSECTION AREA	1706

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 3013 PROJECT #27

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 1.000 = TRM 488+1.198 (5) STA 296+04.00 = MP: 6.606 = TRM 496+0.004

(2) NO EQUATIONS

- (3) NO EXCEPTIONS
- (4) NO AT GRADE RAILROAD CROSSINGS

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Sheet 69

Control 0025-05-024, ETC

Sheet 69 **Control** 0025-05-024, ETC CONT 3205-03-014 COLORADO CO. CONT'D]---LENGTH WIDTH AREA FΤ SY FT_____ ===== AMANDA ANDERLE 08/01/2022

DATE



County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 3013 PROJECT #27 CONT 3205-03-014 COLORADO CO. CONT'D]---BASIS OF ESTIMATE _____ ITEM | DESCRIPTION | RATE | BASIS | QUANTITY | UNIT _____ 316 ASPH (TIER I) 0.48 GAL/SY 78944 SY 37893 GAL TRAVEL LANES SHOULDERS 0.48 GAL/SY 65787 SY 31578 GAL INTERSECTIONS 0.48 GAL/SY 1706 SY 819 GAL _____ TOTAL 70290 GAL 316 AGGR (TY-PE GR-3 SAC-B) 1 CY/110 SY 78944 SY 718 CY TRAVEL LANES SHOULDERS 1 CY/110 SY 65787 SY 598 CY 1 CY/110 SY 1706 SY 16 CY INTERSECTIONS _____ TOTAL 1332 CY 662 WK ZN PAV MRK SHT TERM(TAB) TY Y-2 CENTERLINE 1 EA/40 LF 29604 LF 740 EA BEGIN/END NO PASSING EST 10 EA _____ TOTAL 750 EA 666 RE PM W/RET REQ TY I(W)4"(SLD)(100MIL) EDGELINE EST 58910 LF 666 RE PM W/RET REQ TY I(Y)4"(BRK)(100MIL) PASS 10 LF/40 LF 28720 LF 7180 LF SINGLE NO PASS 10 LF/40 LF 735 LF 184 LF _____ TOTAL 7364 LF 666 RE PM W/RET REQ TY I(Y)4"(SLD)(100MIL) SINGLE NO PASS 735 LF 735 LF 668 PREFAB PAV MRK TY C(W) (24") (SLD) STOP BAR EST 92 LF

Project Number:

Sheet 70

Control 0025-05-024, ETC

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 3013 PROJECT #27

ITEM	DESCRIPTION		RA
672	REFL PAV MRKR TY II-A-A		
	PASS	1	EA/
	SINGLE NO PASS	1	EA/

Sheet 70 **Control** 0025-05-024, ETC CONT 3205-03-014 COLORADO CO. CONT'D]---BASIS OF ESTIMATE _____ ATE | BASIS | QUANTITY | UNIT _____ /80 LF 28720 LF 359 EA /40 LF 735 LF 18 EA _____ TOTAL 377 EA

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0187-03-074 COUNTY : AUSTIN LENGTH : 4,042.00 FT = 0.765 MI LIMITS : FROM FM 1094 TO 1500' SOUTH OF SL 350	TYPE: PROJECT:	SH 36 SEAL COAT #28 16208 VPD	
LIMITS STA TO STA	LENGTH FT	WIDTH FT	AREA SY
<pre>(1) STA 0+00.00 TO STA 3+42.00 (3) (3) STA 4+22.00 TO STA 9+60.00 (3) (3) STA 13+80.00 TO STA 45+42.00 (3)</pre>	342.00 538.00 3162.00	60	2280 3587 21080
	TOTAL TRAVEL	LANE AREA	26947

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

	[SH 36	PROJECT #2	8 CONT	018
		IMITS TO STA		
• •	STA 0+00.00 STA 45+42.00			
• • •	NO EQUATION: EXCEPTION: :			13+80
(4)	RAILROAD CRO	OSSINGS: 1 R	RETAINED	(CONC STA 3

DESIGN ENGINEER

Control 0025-05-024, ETC

Sheet 71

		Sheet 71	
	Control 002	5-05-024, ETC	C
r 0187-03-074	AUSTIN CO.	CONT'D]	
LENGT: FT		AREA SY	
606+0.904 606+1.764			
4+22.00 = - 80.00 13+80.00 = -420.00 (CONCRETE PAVEMENT STA 3+42.00 TO STA	FT = -0.080 @ MAIN ST IN	MI	

Amanda Anderle Fling, P.E.

08/01/2022 DATE



Proje	ct Number:				Shee	t 72
Count	ty: GONZALES, ETC		(Control 0025	-05-024	, ETC
Highv	vay: UA 90, ETC					
[\$	SH 36 PROJECT #28	CONT 0187-03-07	/4 A	USTIN CO. (CONT ' D	1
-		OF EST				-
	DESCRIPTION	RATE	BASIS			 T
316	ASPH (AC-20-5TR) TRAVEL LANES				7006	GAL
316	AGGR(TY-PE GR-4 SAC-B) TRAVEL LANES	1 CY/145 SY	26947	SY	186	СХ
662	WK ZN PAV MRK SHT TERM(1 Turn lane lane line	1 EA/20 LF		LF LF	159	ΕA
				TOTAL	217	
662	WK ZN PAV MRK SHT TERM(I DOUBLE NO PASS CONTINUOUS LT TURN		356 3833	LF X 2 LF X 2 TOTAL		
				IOIAL	210	ĽA
666	REFL PAV MRK TY I(W)8"(I Turn lane	DOT) (100MIL) 3 LF/12 LF	375	LF	94	LF
666	REFL PAV MRK TY I(W)8"(S TURN LANE	SLD) (100MIL)	EST		794	LF
666	RE PM W/RET REQ TY I(W)4 LANE LINE		6358	LF	1590	LF
666	RE PM W/RET REQ TY I(Y)4 CONTINUOUS LT TURN		3833	LF X 2	1917	LF
666	RE PM W/RET REQ TY I(Y)4 DOUBLE NO PASS CONTINUOUS LT TURN	4"(SLD)(100MIL)		LF X 2 LF X 2		LF
				TOTAL		

County: GONZALES, ETC

Highway: UA 90, ETC

[\$	SH 36	PRO	JECT	#2	8	со	NT 01	L87-	03-	-07	74			AUS	TIN CO	. CON	I 'D]
		в	A S	I	S	0	F	E	s	т	I	м	A T	Е				
ITEM	DESC	CRIPTI	ON				RATE				BA	SIS	5		QUANTI	TY	UNI	T
668	PREFAB P		K TY	C (1	1) (24	4″)	(SLD)											
	STOP :												-	Т			228	
	RAILR		COP E	BAR									ES				52	
	CROSS	WALK											ES	Т			210	
															TOTAL		49 0	
668	PREFAB PA RT TU		K TY	С (й	I) (AI	RROV	N)						ES	Т			2	EA
668	PREFAB P		К ТҮ	С (Т	I) (WO	ORD))						ES	m			2	EA
	ONLI												ЦЭ	T			Z	ĿА
668	PREFAB P	AV MRF	к тү	C (Y	(24	4″)	(SLD)											
	CROSS	НАТСН											ES	Т			396	LF
672	REFL PAV	MRKR	TY I	:-c														
	TURN					1 H	EA/20	LF					116	9 LI	7		58	ΕA
	LANE	LINE				1 I	EA/80	LF					635	8 LI	Ŧ		79	
															TOTAL		137	
672	REFL PAV																	
	DOUBL: CONTI	E NO E	PASS			1 H	EA/40	LF					35	6 LI	7		9	
	CONTI	NUOUS	LT I	URN	[1 I	EA/40	LF					383	3 LI	F X 2		192	
															TOTAL		201	EA

672	REFL PAV	MRKR TY	I-C		
	TURN 1	LANE		1	ΕA
	LANE 1	LINE		1	ΕÆ

672	REFL PAV MRKR TY II-A-A		
	DOUBLE NO PASS	1	ΕÆ
	CONTINUOUS LT TURN	1	ΕA

Sheet 72

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0271-18-004 COUNTY : AUSTIN LENGTH : 16,928.00 FT = 3.206 MI LIMITS : FROM 0.125 MI SOUTH OF IH 10 TO FM 3013	TYPE: PROJECT:		
LIMITS STA TO STA	LENGTH FT	WIDTH FT	AREA SY
<pre>(1) STA 0+00.00 TO STA 163+83.00 STA 163+83.00 TO STA 166+53.00 STA 166+53.00 TO STA 169+28.00 (5)</pre>	270.00	24-36	
	TOTAL TRAVEL	LANE AREA	
<pre>(1) STA 0+00.00 TO STA 163+83.00 STA 163+83.00 TO STA 166+53.00 STA 166+53.00 TO STA 169+28.00 (5)</pre>		20 20-15 15	36407 525 458
	TOTAL SHO	ULDER AREA	
INTERSECTIONS COUNTY ROADS (6 EA)	VAR	VAR	510
	TOTAL INTERSE	CTION AREA	510

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 3538 PROJECT #29

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 0.300 = TRM 472+0.259 (5) STA 169+28.00 = MP: 3.506 = TRM 474+1.468

(2) NO EQUATIONS

(3) NO EXCEPTIONS

(4) NO RAILROAD CROSSINGS

amanda anderle Hing, P.E.

DESIGN ENGINEER

Sheet 73

Control 0025-05-024, ETC

Sheet 73 **Control** 0025-05-024, ETC CONT 0271-18-004 AUSTIN CO. CONT'D]---LENGTH WIDTH AREA FΤ FTSY _____ 08/01/2022 AMANDA ANDERLE FL DATE

Project Number:			Sheet 74	Projec	t Number:	
ounty: GONZALES, ETC		Control 002	25-05-024, ETC	County	y: GONZALES, ETC	
Highway: UA 90, ETC				Highw	ay: UA 90, ETC	
[FM 3538 PROJECT #29	CONT 0271-18-004	4 AUSTIN CO.	CONT'D]	[F	M 3538 PROJECT #29	CONT 0271-1
BASI	S OF EST	IMATE			BASIS	SOFES
TEM DESCRIPTION	RATE		 FY UNIT		DESCRIPTION	RATE
316 ASPH (AC-20-5TR)					REFL PAV MRK TY II(Y)4	" (SLD)
TRAVEL LANES	0.50 GAL/SY	45688 SY	22844 GAL		SINGLE NO PASS	
SHOULDERS	0.50 GAL/SY	37390 SY	18695 GAL		DOUBLE NO PASS	
INTERSECTIONS	0.50 GAL/SY	510 SY	255 GAL			
		TOTAL	41794 GAL			
				666	REF PROF PAV MRK TY I (W) 4" (SLD) (100M)
16 AGGR (TY-PE GR-3 SAC-B))				EDGELINE	• •
TRAVEL LANES	1 CY/110 SY	45688 SY	415 CY			
		37390 SY	340 CY			
INTERSECTIONS	1 CY/110 SY	510 SY	5 CY	666	REF PROF PAV MRK TY I (Y) 4" (BRK) (100M)
					PASS	10 LF/40 LF
		TOTAL	760 CY		SINGLE NO PASS	10 LF/40 LF
62 WK ZN PAV MRK SHT TERI	ለ(ሞልв) ሞሃ መ					
		275 LF	14 EA			
	1 DII, 20 DI			666	REF PROF PAV MRK TY I	Y) 4" (SLD) (100MI
					SINGLE NO PASS	, _ (<u>3</u> , (200M
62 WK ZN PAV MRK SHT TERI	M(TAB)TY Y-2				DOUBLE NO PASS	
CENTERLINE	1 EA/40 LF	16928 LF	423 EA			
BEGIN/END NO PASSI		EST	10 EA			
		TOTAL	433 EA	668	PREFAB PAV MRK TY C(W) STOP BAR	(24") (SLD)
566 REFL PAV MRK TY I(W)8	"(SLD)(100MIL)					
TURN LANE		EST	275 LF	668	PREFAB PAV MRK TY C(W) RT TURN	(ARROW)
566 REFL PAV MRK TY II(W)	4″(SLD)					
EDGELINE		EST	33856 LF	668	PREFAB PAV MRK TY C(W) "ONLY"	(WORD)
666 REFL PAV MRK TY II(Y)	4″ (BRK)					
PASS	10 LF/40 LF	15670 LF	3918 LF	672	REFL PAV MRKR TY I-C	
SINGLE NO PASS	10 LF/40 LF	585 LF	146 LF		TURN LANE	1 EA/20 LF
		TOTAL	4064 LF			
				672	REFL PAV MRKR TY II-A-2	
					PASS	1 EA/80 LF
					SINGLE NO PASS	1 EA/40 LF
			1		DOUDLE NO DAGO	1 / / 0

r:

BASIS OF E

OF PAV MRK TY I(W)4"(SLD)(1001 LINE

666	REF	PROF	PAV	MRK	ΤY	I(Y)4	″ (1	3RK) (1(00M
	I	PASS					10	LF/40	ΓF
	2	SINGLE	NO NO	PASS	3		10	LF/40	LF

OF PAV MRK TY I(Y)4"(SLD)(1001 LE NO PASS LE NO PASS

- PAV MRK TY C(W) (24") (SLD) BAR
- PAV MRK TY C(W) (ARROW) URN
- PAV MRK TY C(W) (WORD) γ*''*
- V MRKR TY I-C 1 EA/20 LE LANE

V MRKR TY II-A-A 1 EA/80 LH LE NO PASS 1 EA/40 LH DOUBLE NO PASS 1 EA/40 LH

			Sheet 74
	(Control 002:	5-05-024, ETC
NT 0271-18-00)4 A	USTIN CO.	CONT'D]
F E S T	IMAT	E	
RATE		QUANTIT	Y UNIT
		LF LF X 2	585 LF 936 LF
		TOTAL	 1521 LF
LD) (100MIL)	EST		33856 LF
RK) (100MIL)	15 6 7 0		2010
LF/40 LF LF/40 LF	15670 585		3918 LF 146 LF
		TOTAL	4064 LF
LD) (100MIL)		LF	585 LF
	408	LF X 2	936 LF
SLD)		TOTAL	1521 LF
5127	EST		22 LF
)	EST		1 EA
	EST		1 EA
EA/20 LF	275	LF	14 EA
EA/80 LF EA/40 LF EA/40 LF	15670 585 468	LF	196 EA 15 EA 12 EA
717 OF 17	400	TOTAL	

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 1721-02-013 COUNTY : AUSTIN LENGTH : 27,784.00 FT = 5.262 MI LIMITS : FROM 586' WEST OF SCHLUENS RD TO 1091' WEST OF FM 2187	TYPE: PROJECT:		
LIMITS STA TO STA	LENGTH FT	WIDTH FT	AREA SY
(1) STA 0+00.00 TO STA 277+84.00 (5)	27784.00	20	61742
	TOTAL TRAVEL	LANE AREA	61742
(1) STA 0+00.00 TO STA 277+84.00 (5)	27784.00	6	18523
	TOTAL SHO	ULDER AREA	18523
INTERSECTIONS COUNTY ROADS (6 EA)	VAR	VAR	397
	TOTAL INTERSE	CTION AREA	397

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 1094 PROJECT #30

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 4.176 = TRM 626+1.043 (5) STA 277+84.00 = MP: 9.438 = TRM 632+0.317

(2) NO EQUATIONS

(3) NO EXCEPTIONS

(4) NO RAILROAD CROSSINGS

DESIGN ENGINEER

Sheet 75

Control 0025-05-024, ETC

Sheet 75 **Control** 0025-05-024, ETC CONT 1721-02-013 AUSTIN CO. CONT'D]---LENGTH WIDTH AREA FΤ SY FT_____ ===== Amanda Anderle Hing, P.E. 08/01/2022 AMANDA ANDERLE FL DATE 10598

Project Number:			Sheet 76	Project Number:	
County: GONZALES, ETC		Control 002	5-05-024, ETC	County: GONZALES, ETC	
Highway: UA 90, ETC				Highway: UA 90, ETC	
[FM 1094 PROJECT #30	CONT 1721-02-013	AUSTIN CO.	CONT'D]	[FM 1094 PROJECT #3	30 CONT 1
BASI	S OF EST	IMATE		BAS	IS OF
TEM DESCRIPTION		BASIS QUANTII	Y UNIT	ITEM DESCRIPTION	RATE
316 ASPH (TIER I)			00401 015	666 REF PROF PAV MRK TY	
TRAVEL LANES			28401 GAL	PASS	10 LF/4
SHOULDERS INTERSECTIONS		18523 SY 397 SY	8521 GAL 183 GAL	SINGLE NO PASS	10 LF/4
		TOTAL	 37105 GAL		
		TOTAL	57105 GAL	666 REF PROF PAV MRK TY	
16 AGGR (TY-PE GR-3 SAC-E	3)			SINGLE NO PASS	
TRAVEL LANES	1 CY/110 SY	61742 SY	561 CY	DOUBLE NO PASS	
SHOULDERS		18523 SY	168 CY		
INTERSECTIONS	1 CY/110 SY	397 SY	4 CY		
		TOTAL	733 CY		
				672 REFL PAV MRKR TY II PASS	- A-A 1 EA/8
662 WK ZN PAV MRK SHT TEE	RM(TAB)TY Y-2			SINGLE NO PASS	1 EA/4
	1 EA/40 LF	27784 LF	695 EA	DOUBLE NO PASS	1 EA/4
BEGIN/END NO PASSI	ING	EST	10 EA		
		TOTAL	705 EA		
666 REFL PAV MRK TY II(W))4″(SLD)				
EDGELINE		EST	55568 LF		
666 REFL PAV MRK TY II(Y)	4″ (BRK)				
PASS	10 LF/40 LF	11922 LF	2981 LF		
SINGLE NO PASS	10 LF/40 LF	11329 LF	2832 LF		
		TOTAL	5813 LF		
666 REFL PAV MRK TY II(Y)	A" (SID)				
SINGLE NO PASS		11329 LF	11329 LF		
DOUBLE NO PASS		4239 LF X 2	8478 LF		
		TOTAL	 19807 LF		
666 REF PROF PAV MRK TY 1	I(W)4"(SLD)(100MIL)	EST	55568 LF		

Sheet 76

OJECT #30	CONT 1721-02-01	.3 AUSTIN CO.	CONT'D]
BASIS	OF EST	IMATE	
		BASIS QUANTITY	/ UNIT
		11922 LF 11329 LF	2832 LF
		TOTAL	 5813 LF
MRK TY I(Y)4 Pass	4"(SLD)(100MIL)	11329 LF	11329 TF
PASS		4239 LF X 2	
		TOTAL	19807 LF
R TY II-A-A			
		11922 LF	
		11329 LF 4239 LF	283 EA 106 EA
		TOTAL	538 EA

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 2894-01-014 COUNTY : AUSTIN LENGTH : 62,706.00 FT = 11.876 MI LIMITS : FROM FM 949 TO SH 36	HWY: FM 2187 TYPE: SEAL COAT PROJECT: #31 TRAFFIC: 2189 VPD	
LIMITS STA TO STA	LENGTH WIDTH FT FT	SY
<pre>(1) STA 0+00.00 TO STA 531+87.00 (3) (3) STA 531+97.00 TO STA 542+47.00 (3) (3) STA 542+77.00 TO STA 627+46.00 (5)</pre>	1050.00 22	130013
	TOTAL TRAVEL LANE AREA	153282
 (1) STA 0+00.00 TO STA 531+87.00 (3) (3) STA 531+97.00 TO STA 542+47.00 (3) (3) STA 542+77.00 TO STA 627+46.00 (5) 	1050.00 4	23639 467 3764
	TOTAL SHOULDER AREA	27870
INTERSECTIONS COUNTY ROADS (8 EA)	VAR VAR	673
	TOTAL INTERSECTION AREA	673

Project Number:

LIMITS STA TO STA

Sheet 77 **Control** 0025-05-024, ETC PROJECT #31 CONT 2894-01-014 AUSTIN CO. CONT'D]---LENGTH WIDTH AREA FΤ FTSY ===== (RR XING) STA 542+47.00 TO STA 542+77.00 = -30.00 FT = -0.005 MI (FM 1094) Amanda Anderle Hing, P.E. 08/01/2022 AMANDA ANDERLE FL DESIGN ENGINEER DATE

County: GONZALES, ETC Highway: UA 90, ETC ---[FM 2187 _____ (1) STA 0+00.00 = MP: 2.042 = TRM 468+0.000 (5) STA 627+46.00 = MP: 13.925 = TRM 478+1.923 (2) NO EQUATIONS (3) EXCEPTION: STA 531+87.00 TO STA 531+97.00 = -10.00 FT = -0.002 MI (4) RAILROAD CROSSING: 1 RETAINED STA 531+87.00 TO STA 531+97.00

Sheet 77



Highw [₽ 	y: GONZALES, ETC yay: UA 90, ETC TM 2187 PROJECT #31 B A S I A DESCRIPTION ASPH (TIER II) TRAVEL LANES SHOULDERS INTERSECTIONS	S OF EST RATE 0.48 GAL/SY 0.48 GAL/SY	14 A IMAT BASIS 153282	UST: E Q		CONT'D]
[E TEM 	M 2187 PROJECT #31 B A S I DESCRIPTION ASPH (TIER II) TRAVEL LANES SHOULDERS	S OF EST RATE 0.48 GAL/SY 0.48 GAL/SY	I M A T : BASIS 153282	E Q			
 TEM 	BASI DESCRIPTION ASPH (TIER II) TRAVEL LANES SHOULDERS	S OF EST RATE 0.48 GAL/SY 0.48 GAL/SY	I M A T : BASIS 153282	E Q			
	DESCRIPTION ASPH (TIER II) TRAVEL LANES SHOULDERS	RATE 0.48 GAL/SY 0.48 GAL/SY	BASIS 153282	Q			 T
	ASPH (TIER II) TRAVEL LANES SHOULDERS	0.48 GAL/SY 0.48 GAL/SY	153282				 Т
316	ASPH (TIER II) TRAVEL LANES SHOULDERS	0.48 GAL/SY 0.48 GAL/SY	153282				
	SHOULDERS	0.48 GAL/SY	153282	037			
	SHOULDERS INTERSECTIONS	0.48 GAL/SY 0.48 GAL/SY	~~~~	SI		73575	GAL
	INTERSECTIONS	() 48 GAL/SY	2/8/0	SY		13378	GAL
		0.40 0111/01	673	SY		323	GAL
					TOTAL		
216	AGGR (TY-PE GR-3 SAC-B)						
210	TRAVEL LANES	1 CY/110 SY	153282	SY		1393	CY
	SHOULDERS	1 CY/110 SY	27870	SY		253	CY
	INTERSECTIONS						
					TOTAL	 1652	
662	WK ZN PAV MRK SHT TERM	I(TAB)TY W					
	TURNLANE	1 EA/20 LF	175	LF		9	EA
662	WK ZN PAV MRK SHT TERM	ר עיע ארט ארט ארט ארע ארט					
002	CENTERLINE		62256	T.F		1556	ΕA
	GORE	2 EA/20 LF	450	LF	X 2	90	ΕA
	BEGIN/END NO PASSIN					10	
					TOTAL	1656	EA
666	REFL PAV MRK TY I (W) 8"	(SLD) (100MIL)					
	TURNLANE		EST			175	LF
666	REFL PAV MRK TY II (Y) 4	(BRK)					
555	PASS	10 LF/40 LF	20677	LF		5169	LF
	SINGLE NO PASS		23272			5818	
					TOTAL	 10987	
						_	
666	REFL PAV MRK TY II(Y)4	"(SLD)					
	SINGLE NO PASS		23272	LF		23272	LF
	DOUBLE NO PASS		18913	LF	X 2	37826	
					TOTAL		

County: GONZALES, ETC

Highway: UA 90, ETC

[FM 2187 PROJECT #31 CONT 2894-01-0	AUSTIN CO.	CONT'D]
	BASIS OF EST		
	DESCRIPTION RATE	BASIS QUANTI	
	RE PM W/RET REQ TY I(W)4"(SLD)(100MIL) EDGELINE	EST	125412 LF
666	RE PM W/RET REQ TY I(Y)4"(SLD)(100MIL) Gore	450 LF X 4	1800 LF
666	REFPROFPAVMRKI (Y) 4" (BRK) (100MIL)PASS10LF/40LFSINGLE NOPASS10LF/40LF	20677 LF	
		TOTAL	10987 LF
666	REF PROF PAV MRK TY I(Y)4"(SLD)(100MIL) SINGLE NO PASS DOUBLE NO PASS	23272 LF 18913 LF X 2	
668	PREFAB PAV MRK TY C(W)(18")(SLD) Schoool Zone	EST	56 LF
668	PREFAB PAV MRK TY C(W)(24")(SLD) STOP BAR RAILROAD STOP BAR	EST EST	60 LF 66 LF
		TOTAL	126 LF
668	PREFAB PAV MRK TY C(W)(RR XING)	EST	2 EA
668	PREFAB PAV MRK TY C(W)(36")(YLD TRI)	EST	7 EA
672	REFL PAV MRKR TY I-C TURNLANE 1 EA/20 LF	175 LF	9 EA

[1	TM 2187 PROJECT #31 CONT 2894-01-0)14 A	USTIN CO.	CONT'D]-	·
	BASIS OF EST	гімат	E		
ITEM	DESCRIPTION RATE	BASIS	QUANTIT	Y UNIT	
666	RE PM W/RET REQ TY I(W)4"(SLD)(100MIL) EDGELINE	EST		125412 L	F
666	RE PM W/RET REQ TY I(Y)4"(SLD)(100MIL) GORE	450	lf X 4	1800 L	F
666	REF PROF PAV MRK TY I(Y)4"(BRK)(100MIL)PASS10 LF/40 LFSINGLE NO PASS10 LF/40 LF	20677		5818 L	
			TOTAL	 10987 L	F
666	REF PROF PAV MRK TY I(Y)4"(SLD)(100MIL) SINGLE NO PASS DOUBLE NO PASS		LF LF X 2		F
			TOTAL	61098 L	F
668	PREFAB PAV MRK TY C(W)(18")(SLD) SCHOOOL ZONE	EST		56 L	F
668	PREFAB PAV MRK TY C(W)(24")(SLD) STOP BAR RAILROAD STOP BAR	-		60 L 66 L	
			TOTAL		F
668	PREFAB PAV MRK TY C(W)(RR XING)	EST		2 E.	A
668	PREFAB PAV MRK TY C(W)(36")(YLD TRI)	EST		7 E.	A
672	REFL PAV MRKR TY I-C TURNLANE 1 EA/20 LF	175	LF	9 E.	A

Sheet 78

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 2187 PROJECT #31 CONT 2894-01-014

AUSTIN CO. CONT'D]---

Control 0025-05-024, ETC

Sheet 79

BASIS OF ESTIMATE

ITEM DESCRIPTION	RATE		BASIS	QUANTITY	UNIT
672 REFL PAV MRKR TY II-A-A					
PASS	1 EA/80 I	LF	20677	LF	258 EA
SINGLE NO PASS	1 EA/40 I	LF	23272	LF	582 EA
DOUBLE NO PASS	1 EA/40 I	LF	18913	LF	473 EA
GORE	2 EA/20 I	LF	450	LF X 2	90 EA

TOTAL 1403 EA

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

Sheet 79

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0266-05-053 COUNTY : WHARTON LENGTH : 28,344.00 FT = 5.368 MI LIMITS : FROM FM 961 TO FM 1300	HWY: SH 71 TYPE: SEAL COAT PROJECT: #32 TRAFFIC: 5844 VPD	
LIMITS STA TO STA	LENGTH WIDTH FT FT	AREA SY
(1) STA 0+00.00 TO STA 283+44.00 (5)	28344.00 24	75584
	TOTAL TRAVEL LANE AREA	75584
(1) STA 0+00.00 TO STA 283+44.00 (5)	28344.00 12	37792
	TOTAL SHOULDER AREA	37792
INTERSECTIONS FM 2546 (3 EA) COUNTY ROADS (7 EA)	VAR VAR VAR VAR	585 1269
	TOTAL INTERSECTION AREA	1854

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[SH 71 PROJECT #32

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 7.214 = TRM 696+0.195 (5) STA 283+44.00 = MP: 12.582 = TRM 700+1.613

(2) NO EQUATIONS

- (3) NO EXCEPTIONS
- (4) NO RAILROAD CROSSINGS

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Control 0025-05-024, ETC

Sheet 80

Sheet 80 **Control** 0025-05-024, ETC CONT 0266-05-053 WHARTON CO. CONT'D]---LENGTH WIDTH AREA FΤ SY FT_____ ===== AMANDA ANDERLE FLING 08/01/2022 10598 DATE IONAL 11110

Project Numb	er:			Sheet	t 81	Proje	ect Number:		
County: GON	ZALES, ETC		Contr	ol 0025-05-024,	ETC	Coun	ty: GONZAI	LES, ETC	
Highway: UA	90, ETC					High	way: UA 90,	ETC	
[SH 71	PROJECT #32	CONT 0266-05-053	WHARTO	N CO. CONT'D]	[SH 71	PROJECT #32	CONT
	BASIS	OF ESTI	ΜΑΤΕ					BASIS	OF
TEM DE	ESCRIPTION	RATE B	ASIS QU	JANTITY UNI	г	ITEM	DESCI	RIPTION	RATE
316 ASPH (668		V MRK TY C(W)(24") (SLD)
	VEL LANES	0.50 GAL/SY	75584 SY	37792			STOP B	AR	
		0.50 GAL/SY 0.50 GAL/SY	37792 SY 1854 SY	18896 927					
± 11 ±		0.00 0111/01	1001 01			672	REFL PAV	MRKR TY II-A-A	
			נ	TOTAL 57615	GAL		PASS		1 EA/80
							SINGLE	NO PASS	1 EA/40
316 AGGR (T	Y-PE GR-3 SAC-B)								
		1 CY/110 SY	75584 SY	687	СҮ				
		1 CY/110 SY	37792 SY	344					
INT	ERSECTIONS	1 CY/110 SY	1854 SY	17					
			2	 TOTAL 1048					
662 WK ZN	PAV MRK SHT TERM(T	'AB) TY Y-2							
			28344 LF	709	EA				
	AV MRK TY II(W)4"((SLD)							
EDG	ELINE		EST	56688	LF				
666 RE PM	W/RET REQ TY I(Y)4	" (BRK) (100MIL)							
PAS	S	10 LF/40 LF	26760 LF	6690	LF				
SIN	GLE NO PASS	10 LF/40 LF	1240 LF	310					
			נ	 TOTAL 7000					
	W/RET REQ TY I(Y)4 Gle no pass	"(SLD)(100MIL)	1240 LF	1240	LF				
	of pav mrk ty i(w) Eline	4" (SLD) (100MIL)	EST	56688	T.F				
EDG			ЕОI	20000	TTE				

Sheet 81

OF ESTIMATE	
RATE BASIS QUANTITY	UNIT
24") (SLD) EST	32 LF
1 EA/40 LF 1240 LF	335 EA 31 EA 366 EA

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL:	0266-06-049
COUNTY :	WHARTON
LENGTH :	53,365.00 FT = 10.107 MI
LIMITS :	FROM BU 59S
	TO MATAGORDA C/L

STA 578+26.00 TO STA 582+26.00

STA 582+26.00 TO STA 716+60.00 (5)

		LIM: STA TO	-	ГА 			LENGTH FT	WIDTH FT	AREA SY
(1)	STA	0+00.00	ТО	STA	4+12.00		412.00	36	1648
	STA	4+12.00	ТО	STA	5+12.00	(3)	100.00	36-24	333
(3)	STA	5+24.00	ТО	STA	35+82.00	(3)	3058.00	24	8155
(3)	STA	37+27.00	ТО	STA	70+61.00		3334.00	24	8891
	STA	70+61.00	ТО	STA	73+51.00	(3)	290.00	24-36	967
(3)	STA	80+91.00	ТО	STA	86+41.00		550.00	46-24	2139
	STA	86+41.00	ТО	STA	254+76.00	(3)	16835.00	24	44893
(3)	STA	428+74.00	ТО	STA	565+74.00		13700.00	24	36533
	STA	565+74.00	ТО	STA	569+88.00		414.00	24-36	1380
	STA	569+88.00	ТО	STA	578+26.00		838.00	36	3352
	STA	578+26.00	ТО	STA	582+26.00		400.00	36-24	1333
	STA	582+26.00	ТО	STA	716+60.00	(5)	13434.00	24	35824
							TOTAL TRAVEL	LANE AREA	145448
(1)	STA	0+00.00	то	STA	5+12.00	(3)	512.00	24	1365
(3)	STA	5+24.00	ТО	STA	9+80.00		456.00	24	1216
	STA	9+80.00	ТО	STA	35+82.00	(3)	2602.00	16	4626
(3)	STA	37+27.00	ТО	STA	73+51.00	(3)	3624.00	16	6443
(3)	STA	80+91.00	ТО	STA	254+76.00	(3)	17385.00	16	30907
(3)	STA	428+74.00	ТО	STA	565+74.00		13700.00	16	24356
	STA	565+74.00	ТО	STA	569+88.00		414.00	16-8	552
	STA	569+88.00	ТО	STA	578+26.00		838.00	8	745

TOTAL SHOULDER AREA 94626 INTERSECTIONS COUNTY ROADS & CITY STREETS (20 EA) VAR VAR

> TOTAL INTERSECTION AREA 2610

8-16

16

400.00

13434.00

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[SH 71 PROJECT #33 CONT 0266-06-049

LIMITS STA TO STA

	STA 0+00 STA 716+60			
• •	NO EQUATION EXCEPTION:		5+12.00	to sta
		STA	35+82.00	TO STA
		STA	73+51.00	TO STA

(4) RAILROAD CROSSING: 1 RETAINED STA 5+12.00 TO STA 5+24.00

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Sheet 82

> > 533

23883 ____

> 2610 ____

Control 0025-05-024, ETC

HWY: SH 71

TRAFFIC: 9977 VPD

PROJECT: #33

TYPE: SEAL COAT

Sheet 82 **Control** 0025-05-024, ETC WHARTON CO. CONT'D]---LENGTH WIDTH AREA FΤ FΤ SY _____ 704+1.028 718+0.566 5+24.00 = -12.00 FT = -0.002 MI(RR XING) 37+27.00 = -145.00 FT = -0.027 MI(TRES PALACIOS BRIDGE) 80+91.00 = -740.00 FT = -0.140 MI (US 59 UNDERPASS AND FRTG INTER) STA 254+76.00 TO STA 428+74.00 = -17398.00 FT = -3.295 MI (FM 2674 TO CR 405)

08/01/2022 DATE



Project Number:				Shee	et 83	
County: GONZALES, ETC	C	Control 0025-05-024, ETC				
Highway: UA 90, ETC						
[SH 71 PROJECT #33	CONT 0266-06-0	49 WHA	RTON CO.	CONT ' D]	
	OF EST				-	
ITEM DESCRIPTION	RATE			Y UNI	T	
316 ASPH (AC-20-5TR)						
STA 0+00.00 TO STA 2		(700)	0.17	20100	C 3 T	
TRAVEL LANES SHOULDERS						
INTERSECTIONS						
STA 428+74.00 TO STA 7		2010	01	105	GАЦ	
TRAVEL LANES		78422	SY	21958	GAL	
SHOULDERS	0.28 GAL/SY	50069	SY	14019	GAL	
			TOTAL	70235	GAL	
316 AGGR(TY-PE GR-3 SAC-B) STA 428+74.00 TO STA 7 TRAVEL LANES SHOULDERS	1 CY/110 SY			455	CY	
316 AGGR (TY-PE GR-4 SAC-B)						
STA 0+00.00 TO STA 254 TRAVEL LANES		67026	QV	162	cv	
SHOULDERS	1 CY/145 SY		SY	307		
INTERSECTIONS				18		
	, , ,	0				
			TOTAL	787	CY	
662 WK ZN PAV MRK SHT TERM(I	ል የሆሉ ወ					
TURN LANE	1 EA/20 LF	760	LF	38	EA	
662 WK ZN PAV MRK SHT TERM(I	'AB)TY Y-2					
CENTERLINE	1 EA/40 LF		LF	1264		
CONTINUOUS LT TURN	1 EA/40 LF		LF X 2	58	ΕA	
	2 EA/20 LF		LF X 2	332		
BEGIN/END NO PASSING		EST		10		
			TOTAL	1664		
666 REFL PAV MRK TY I (W) (8")		200	ты	EO	TP	
TURN LANE	3 LF/12 LF	200	LF	50	LF	

County: GONZALES, ETC

Highway: UA 90, ETC

			.		ज्य			
	BASIS							
L'I'EM 	DESCRIPTION	RATE		BASIS		QUANTIT 	Y UNI	.'T' - — — -
666	REFL PAV MRK TY I(W)(8") TURN LANE	(SLD) (100M	1IL)	ES	Т		560	LF
666	RE PM W/RET REQ TY I(W)4 EDGELINE	"(SLD)(100)MIL)	ES	Т		106730	LF
666	RE PM W/RET REQ TY I(Y)4							
	PASS	10 LF/40	LF	3706	3 LF		9266 1861	LF
	SINGLE NO PASS CONTINUOUS LT TURN	10 LF/40 10 LF/40	LF	115	O LF	X 2	575	LF
						TOTAL	11702	
666	RE PM W/RET REQ TY I(Y)4 SINGLE NO PASS	"(SLD)(100)MIL)	744	5 т с		7445	ть
	DOUBLE NO PASS					X 2	10926	T.F
	CONTINUOUS LT TURN			115	0 LF	X 2	2300	LF
	GORE			166	2 LF	X 4	6648	LF
						TOTAL	27319	LF
668	PREFAB PAV MRK TY C(W)(2	4") (SLD)						
	STOP BAR @ CROSSWALK			-	Т		36	
	RAILROAD STOP BAR CROSSWALK			ES	T T		72 64	
	CKOSSWALK			63	T			
						TOTAL	172	LF
668	PREFAB PAV MRK TY C(W)(A RT TURN	RROW)		ES	Т		4	EA
668	PREFAB PAV MRK TY C(W)(W	ORD)						
	"ONLY"			ES	Т		4	EA
668	PREFAB PAV MRK TY C(W)(R	R XING)		ES	Т		2	EA

Sheet 83 **Control** 0025-05-024, ETC

County: GONZALES, ETC

Highway: UA 90, ETC

[SH 71 PROJECT #33	CONT 0266-06-049 WHAP	RTON CO. CONT'D]
BASIS	OF ESTIMATE	
ITEM DESCRIPTION	RATE BASIS	QUANTITY UNIT
672 REFL PAV MRKR TY I-C TURN LANE	1 EA/20 LF 760 L	F 38 EA
672 REFL PAV MRKR TY II-A-A PASS SINGLE NO PASS DOUBLE NO PASS CONTINUOUS LT TURN GORE	1 EA/80 LF 37063 L 1 EA/40 LF 7445 L 1 EA/40 LF 5463 L 1 EA/40 LF 1150 L 2 EA/20 LF 1662 L	F 186 EA F 137 EA F X 2 58 EA
		TOTAL 1176 EA

Project Number:

Sheet 84

Control 0025-05-024, ETC

County: GONZALES, ETC

Highway: UA 90, ETC

Sheet 84

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0709-02-057 COUNTY : WHARTON LENGTH : 67,860.00 FT = 12.852 MI LIMITS : FROM COLORADO C/L TO FM 960	TYPE: PROJECT:	FM 102 SEAL COAT #34 2590 VPD	
LIMITS STA TO STA	LENGTH FT	WIDTH FT	AREA SY
<pre>(1) STA 0+00.00 TO STA 216+85.00 STA 216+85.00 TO STA 221+85.00 STA 221+85.00 TO STA 220+55.00 STA 226+55.00 TO STA 230+55.00 STA 230+55.00 TO STA 407+43.00 STA 407+43.00 TO STA 414+23.00 STA 414+23.00 TO STA 417+63.00 STA 417+63.00 TO STA 423+03.00 STA 423+03.00 TO STA 678+60.00 (5)</pre>	21685.00 500.00 470.00 400.00 17688.00 680.00 340.00 540.00	24 24-36 36 36-24 24 24-36 36 36-24	57827 1667 1880 1333 47168 2267 1360 1800
STA 423+03.00 TO STA 678+60.00 (5)	25557.00 TOTAL TRAVEL		68152 183454
<pre>(1) STA 0+00.00 TO STA 27+45.00 STA 27+45.00 TO STA 216+85.00 STA 216+85.00 TO STA 221+85.00 STA 221+85.00 TO STA 226+55.00 STA 226+55.00 TO STA 230+55.00 STA 230+55.00 TO STA 407+43.00 STA 407+43.00 TO STA 414+23.00 STA 414+23.00 TO STA 417+63.00 STA 417+63.00 TO STA 423+03.00 STA 423+03.00 TO STA 678+60.00 (5)</pre>	2745.00 18940.00 500.00 470.00 400.00 17688.00 680.00 340.00 540.00 25557.00	16 16-8 8 8-16 16 16-8 8 8-16	1830 33671 667 418 533 31445 907 302 720 45435
	TOTAL SHO	ULDER AREA	115928
INTERSECTIONS FM 960 FM 1161 FM 2614 COUNTY ROADS & CITY STREETS (20 EA)	VAR VAR VAR VAR	VAR VAR VAR VAR	143 222 188 1943
	TOTAL INTERSE	CTION AREA	 2496

Project Number:

Sheet 85

Control 0025-05-024, ETC

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 102 PROJECT #34

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 1.000 = TRM 498+0.001 (5) STA 678+60.00 = MP: 13.852 = TRM 510+0.870

(2) NO EQUATIONS

(3) NO EXCEPTIONS

(4) NO RAILROAD CROSSINGS

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Sheet 85 **Control** 0025-05-024, ETC CONT 0709-02-057 WHARTON CO. CONT'D]---LENGTH WIDTH AREA FΤ SY FT_____ ===== AMANDA ANDERLE FLING 08/01/2022 DATE 10598



Project Number:			Sheet 86	Proje	ect Number:	
County: GONZALES, ETC		Control 002	5-05-024, ETC	County: GONZALES, ETC		
lighway: UA 90, ETC				High	way: UA 90, ETC	
[FM 102 PROJECT #34	CONT 0709-02-057	WHARTON CO.	Cont'd]	[FM 102 PROJECT #34	CONT 0709-02-
BASIS	OF ESTI	МАТЕ			BASIS	SOFES
TEM DESCRIPTION	RATE F	BASIS QUANTII	'Y UNIT	ITEM	DESCRIPTION	RATE
SHOULDERS		183454 SY 115928 SY 2496 SY	88058 GAL 55645 GAL 1198 GAL	666	RE PM W/RET REQ TY I(Y SINGLE NO PASS DOUBLE NO PASS CONTINUOUS LT TURN GORE)4"(SLD)(100MIL)
		TOTAL	144901 GAL			
SHOULDERS		183454 SY 115928 SY 2496 SY	1668 CY 1054 CY 23 CY	666	REF PROF PAV MRK TY I() EDGELINE	W)4"(SLD)(100MIL)
		TOTAL	2745 CY	668	PREFAB PAV MRK TY C(W) Stop bar	(24") (SLD)
662 WK ZN PAV MRK SHT TERM(TA TURN LANE	AB)TY W 1 EA/20 LF	140 LF	7 EA	668	PREFAB PAV MRK TY C(W) LT TURN	(ARROW)
	1 EA/40 LF 1 EA/40 LF	65438 LF 140 LF X 2 2282 LF X 2	1636 EA 7 EA 456 EA	668	PREFAB PAV MRK TY C(W) "ONLY"	(WORD)
BEGIN/END NO PASSING		EST TOTAL	10 EA 2109 EA	668	PREFAB PAV MRK TY C(Y) GORE CROSSHATCH	(24") (SLD)
666 REFL PAV MRK TY I(W)8″(SI TURN LANE	LD) (100MIL)	EST	140 LF	672	REFL PAV MRKR TY I-C TURN LANE	1 EA/20 LF
666 REFL PAV MRK TY II(W)4"(S EDGELINE	SLD)	EST	135720 LF	672	REFL PAV MRKR TY II-A-A PASS SINGLE NO PASS	1 EA/80 LF 1 EA/40 LF
SINGLE NO PASS	'(BRK)(100MIL) 10 LF/40 LF 10 LF/40 LF 10 LF/40 LF	41227 LF 17252 LF 140 LF X 2	10307 LF 4313 LF 70 LF		DOUBLE NO PASS CONTINUOUS LT TURN GORE	
		TOTAL	 14690 LF			

			Sheet 86
	C	Control 0025-	05-024, ETC
CONT 0709-02-05	57 WH	ARTON CO. C	омт'д]
OF EST	IMATI	E	
RATE	BASIS	QUANTITY	UNIT
"(SLD)(100MIL)			
		LF LF X 2	
	140	LF X 2	280 LF
	2282	LF X 4	9128 LF
		TOTAL	36780 LF
4"(SLD)(100MIL)			
	EST	1	.35720 LF
4") (SLD)			
-	EST		12 LF
RROW)			
	EST		4 EA

EST 2 EA

EST **1144 LF**

1 EA/20 LF 140 LF **7 EA**

					тс	TAL	1536	EA
2	EA/20	LF	2282	LF	Х	2	456	ΕA
1	EA/40	LF	140	LF	Х	2	7	ΕA
1	EA/40	LF	5060	LF			127	ΕA
1	EA/40	LF	17252	LF			431	ΕA
1	EA/80	LF	41227	LF			515	ΕA

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 1302-02-014 COUNTY : WHARTON LENGTH : 23,718.00 FT = 4.492 MI LIMITS : FROM SL 523 TO END OF MAINTENANCE	HWY: FM 647 TYPE: SEAL COAT PROJECT: #35 TRAFFIC: 170 VPD	
LIMITS STA TO STA	LENGTH WIDTH Z	AREA SY
(1) STA 0+00.00 TO STA 0+50.00 (3) (3) STA 0+62.00 TO STA 101+70.00 (3) (3) STA 110+65.00 TO STA 246+25.00 (5)		133 6955 6160
	TOTAL TRAVEL LANE AREA 6	 3248
INTERSECTIONS SL 523 COUNTY ROADS (2 EA)	VAR VAR VAR VAR	185 360
	TOTAL INTERSECTION AREA	545

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 647 PROJECT #35

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 0.011 = TRM 520-0.950 (5) STA 246+25.00 = MP: 4.674 = TRM 522+1.731

(2) NO EQUATIONS

(4) RAILROAD CROSSING: 1 RETAINED STA 0+50.00 TO STA 0+62.00

Amanda Anderle Fling, P.E.

DESIGN ENGINEER

Sheet 87

Control 0025-05-024, ETC

Sheet 87 **Control** 0025-05-024, ETC CONT 1302-02-014 WHARTON CO. CONT'D]---LENGTH WIDTH AREA \mathbf{FT} FTSY _____ _____ (3) EXCEPTION: STA 0+50.00 TO STA 0+62.00 = - 12.00 FT = -0.002 MI (RR XING) STA 101+70.00 TO STA 110+65.00 = -895.00 FT = -0.169 MI (EAST MUSTANG CREEK BRIDGE REPLACEMENT)





Project Number:		Sheet 88	Project Number:
County: GONZALES, ETC	Control 002:	5-05-024, ETC	County: GONZALES, ETC
Highway: UA 90, ETC			Highway: UA 90, ETC
[FM 647 PROJECT #35 CONT 1302-02-03	14 WHARTON CO.	CONT'D]	[FM 647 PROJECT #35 CONT 13
BASIS OF EST	FIMATE		BASIS OF
ITEM DESCRIPTION RATE	BASIS QUANTIT	Y UNIT	ITEM DESCRIPTION RATE
316 ASPH (TIER II) TRAVEL LANES 0.50 GAL/SY	63248 SY 545 SY	31624 GAL 273 GAL	666 REF PROF PAV MRK TY I(Y)4"(SLD) SINGLE NO PASS DOUBLE NO PASS
	TOTAL	 31897 GAL	
	63248 SY 545 SY	575 CY 5 CY	668 PREFAB PAV MRK TY C(W)(24")(SLD) STOP BAR RAILROAD STOP BAR
	TOTAL	580 CY	
662 WK ZN PAV MRK SHT TERM(TAB)TY Y-2 CENTERLINE 1 EA/40 LF	23718 LF	593 EA	668 PREFAB PAV MRK TY C(W)(RR XING)
BEGIN/END NO PASSING	EST	10 EA	672 REFL PAV MRKR TY II-A-A
	TOTAL	603 EA	PASS 1 EA/80 SINGLE NO PASS 1 EA/40
66 REFL PAV MRK TY II(Y)4"(BRK)			DOUBLE NO PASS 1 EA/40
PASS 10 LF/40 LF SINGLE NO PASS 10 LF/40 LF	18175 LF 4900 LF	4544 LF 1225 LF 	
	TOTAL	5769 LF	
66 REFL PAV MRK TY II(Y)4"(SLD)			
SINGLE NO PASS DOUBLE NO PASS	4900 LF 500 LF X 2	4900 LF 1000 LF	
	TOTAL	 5900 LF	
666 RE PM W/RET REQ TY I(W)4"(SLD)(100MIL) EDGELINE	EST	47436 LF	
666 REF PROF PAV MRK TY I (Y) 4" (BRK) (100MIL)			
PASS 10 LF/40 LF SINGLE NO PASS 10 LF/40 LF	18175 LF 4900 LF	4544 LF 1225 LF	
	TOTAL	 5769 LF	

Sheet 88

ЕСТ #35 СС	ONT 1302	2-02-014	l WE	HARTON CO.	CONT'D]
BASIS	OF	EST	ІМАТ	E	
ION	RATE		BASIS	QUANTIT	Y UNIT
 MRK TY I(Y)4"	(SLD) (1	 .00MIL)			
PASS			4900	LF	4900 LF
PASS				LF X 2	1000 LF
				TOTAL	 5900 LF
K TY C(W) (24")) (SLD)				
			EST		12 LF
TOP BAR			EST		48 LF
				TOTAL	60 LF
K TY C(W) (RR)	XING)		EST		1 EA
TY II-A-A					
	EA/80	T.F	18175	ਜ.T	227 F.A
PASS 1					123 EA
PASS 1				LF	13 EA
				TOTAL	 363 EA

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL:	1412-03-042	HWY:	FM 1301
COUNTY :	WHARTON	TYPE:	SEAL COAT
LENGTH :	51,855.00 FT = 9.821 MI	PROJECT:	#36
LIMITS :	FROM 475 FT N OF N ALABAMA RD	TRAFFIC:	15990 VPD
	TO FM 442		

LIMITS	LENGTH	WIDTH	AREA
STA TO STA	FΤ	FΤ	SY
(1) STA 0+00.00 TO STA 13+76.00	1376.00	64	9785
STA 13+76.00 TO STA 22+76.00		40 (AVG)	4000
STA 22+76.00 TO STA 47+56.00		24	6613
STA 47+56.00 TO STA 50+76.00	320.00	24-36	1067
STA 50+76.00 TO STA 61+76.00	1100.00	36	4400
STA 61+76.00 TO STA 65+70.00	394.00	36-24	1313
STA 65+70.00 TO STA 422+33.00	35663.00	24	95101
STA 422+33.00 TO STA 427+23.00	490.00	24-40	1742
STA 427+23.00 TO STA 429+88.00		47 (AVG)	1384
STA 429+88.00 TO STA 435+58.00	570.00	50	3167
STA 435+58.00 TO STA 438+23.00	265.00	47 (AVG)	1384
STA 438+23.00 TO STA 443+29.00 STA 443+29.00 TO STA 507+10.00	506.00	40-24 24	1799
	6381.00		17016
STA 507+10.00 TO STA 510+65.00	355.00	24-38	1223
STA 510+65.00 TO STA 514+95.00 STA 514+95.00 TO STA 516+95.00	430.00	38	1816
STA 514+95.00 TO STA 516+95.00 STA 516+95.00 TO STA 518+55.00		38-24	689 427
STA 516+95.00 TO STA 518+55.00	160.00	24	427
	TOTAL TRAVEL I	ANE AREA	152926
		1.0	1000
STA 13+76.00 TO STA 22+76.00	900.00	12	1200
STA 22+76.00 TO STA 47+56.00	2480.00	16	4409
STA 47+56.00 TO STA 50+76.00	320.00	16-22	676
STA 50+76.00 TO STA 61+76.00	1100.00	22	2689
STA 61+76.00 TO STA 65+70.00	394.00	22-16	832
STA 65+70.00 TO STA 422+33.00	35663.00	16	63401
STA 422+33.00 TO STA 427+23.00	490.00	12	653
STA 427+23.00 TO STA 429+88.00	265.00	12-10	324
STA 429+88.00 TO STA 435+58.00	570.00	10	633
STA 435+58.00 TO STA 438+23.00 STA 438+23.00 TO STA 443+29.00	265.00	10-12 12	324 675
	506.00		
STA 443+29.00 TO STA 507+10.00	6381.00	16 16 0	11344
STA 507+10.00 TO STA 510+65.00	355.00	16-0	316
STA 514+95.00 TO STA 516+95.00		0-16 16	178
STA 516+95.00 TO STA 518+55.00	160.00	ΤO	284
			07020

TOTAL SHOULDER AREA 87938

Sheet 89

Control 0025-05-024, ETC

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 1301 PROJECT #36 CONT 14

LIMITS STA TO STA _____

INTERSE	CTIONS					
FM 281	7					
FM 109	6 (2 EA	7)				
FM 442	(2 EA)					
COUNTY	ROADS	&	CITY	STREETS	(24	EA)

(1) STA 0+00.00 = MP: 2.696 = TRM 636+0.668 (5) STA 518+55.00 = MP: 12.517 = TRM 646+0.527

(2) NO EQUATIONS

(3) NO EXCEPTIONS

(4) NO RAILROAD CROSSINGS

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Sheet 89

Control 0025-05-024, ETC

412-03-042		WHARTON C	O. CONT'	d]
	LENGTH FT	WIDI FT	'Η	AREA SY
============	=======	=========	=======	

TOTAL INT	ERSECTION	AREA	3567
VZ	AR	VAR	2635
VZ	AR	VAR	418
VZ	AR	VAR	342
VZ	AR	VAR	172

08/01/2022 DATE



Proje	ct Number:				Sheet 90		
Count	ty: GONZALES, ETC		Control 0025-05-024, E				
łighv	vay: UA 90, ETC						
[1	FM 1301 PROJECT #36 (CONT 1412-03-042	WH	ARTON CO.	CONT'D]		
	BASIS	OF EST	IMATI	E 			
TEM	DESCRIPTION	RATE	BASIS	QUANTIT	Y UNIT 		
316	ASPH (AC-20-5TR) TRAVEL LANES SHOULDERS INTERSECTIONS	0.26 GAL/SY 0.30 GAL/SY 0.30 GAL/SY	87938	SY	26381 GAI 1070 GAI		
				TOTAL	67212 GAI		
316	AGGR(TY-PE GR-4 SAC-B) TRAVEL LANES SHOULDERS INTERSECTIONS	1 CY/145 SY 1 CY/145 SY 1 CY/145 SY	152926 87938 3567	SY	1055 CY 606 CY 25 CY		
				TOTAL	1686 CY		
662	WK ZN PAV MRK SHT TERM(T Turn lane lane line	AB)TY W 1 EA/20 LF 1 EA/40 LF	1990 1696		100 EA 42 EA		
				TOTAL	142 EA		
662	WK ZN PAV MRK SHT TERM(T CENTERLINE CONTINUOUS LT TURN GORE BEGIN/END NO PASSING	1 EA/40 LF	1563	LF LF X 2 LF X 2	1176 EA 78 EA 654 EA 10 EA		
				TOTAL	 1918 EA		
666	REFL PAV MRK TY I(W)8"(S TURN LANE	LD) (100MIL)	EST		1990 LF		
666	RE PM W/RET REQ TY I(W)4 LANE LINE	"(BRK)(100MIL) 10 LF/40 LF	1696	LF	424 LF		
666	RE PM W/RET REQ TY I(W)4 EDGELINE	"(SLD)(100MIL)	EST		103710 LF		

County: GONZALES, ETC

Highway: UA 90, ETC

[1	M 1301 PROJECT #36 CONT 1412-03-042	WHARTON CO. C	ONT'D]
	BASIS OF EST	IMATE	
ITEM	DESCRIPTION RATE		
666	RE PM W/RET REQ TY I(Y)4"(BRK)(100MIL)	36616 LF 6300 LF	9154 LF 1575 LF
		TOTAL	11511 LF
666	RE PM W/RET REQ TY I(Y)4"(SLD)(100MIL) SINGLE NO PASS DOUBLE NO PASS CONTINUOUS LT TURN GORE	6300 LF 2711 LF X 2 1563 LF X 2 3270 LF X 4	5422 LF 3126 LF 13080 LF
		TOTAL	27928 LF
668	PREFAB PAV MRK TY C(W)(18")(SLD) SCHOOL ZONE	EST	50 LF
668	PREFAB PAV MRK TY C(W)(24")(SLD) STOP BAR CROSSWALK	EST EST	285 LF 132 LF
		TOTAL	417 LF
668	PREFAB PAV MRK TY C(W)(ARROW) LT TURN RT TURN	EST EST	4 EA 2 EA
		TOTAL	6 EA
668	PREFAB PAV MRK TY C(W)(WORD) "ONLY"	EST	4 EA
668	PREFAB PAV MRK TY C(Y)(24")(SLD) GORE CROSSHATCH	EST	1447 LF

Sheet 90

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 1301 PROJECT #36 CONT 1412-03-042

WHARTON CO. CONT'D]---

BASIS OF ESTIMATE

 ITEM	DESCRIPTION		RATE			BASIS		QUANTITY		 T
672	REFL PAV MRKR TY I-C TURN LANE		EA/20	LF		1990	LE		100	
	LANE LINE		EA/80			1696	LI	P	21	EA
								TOTAL	121	EA
672	REFL PAV MRKR TY II-A-A									
-	PASS	1	EA/80	LF		36616	LE	r	458	ΕA
	SINGLE NO PASS	1	EA/40	LF		6300	ΓE	r	158	ΕA
	DOUBLE NO PASS	1	EA/40	LF		2711	ΓE	r	68	ΕA
	CONTINUOUS LT TURN	1	EA/40	LF		1563	ΓE	T X 2	78	EA
	GORE	2	EA/20	LF		3270	ΓE	T X 2	654	EA

TOTAL 1416 EA

Sheet 91

Control 0025-05-024, ETC

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

Sheet 91

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 3014-02-005 COUNTY : WHARTON LENGTH : 12,866.00 FT = 2.436 MI LIMITS : FROM END OF MAINTENANCE TO SL 523			
LIMITS STA TO STA	LENGTH FT	WIDTH FT	SY
(1) STA 0+00.00 TO STA 128+66.00 (5)	12866.00		34309
	TOTAL TRAVEL	LANE AREA	34309
(1) STA 97+25.00 TO STA 109+36.00 (5)	1211.00	12	1615
	TOTAL SHO	JLDER AREA	1615
INTERSECTIONS US 59 RAMP SL 523 COUNTY ROADS (4 EA)	VAR	VAR VAR VAR	168 834 307
	TOTAL INTERSE	CTION AREA	1309

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 647 PROJECT #37

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 10.000 = TRM 516-0.040 (5) STA 128+66.00 = MP: 12.436 = TRM 518+0.404

(2) NO EQUATIONS

- (3) NO EXCEPTIONS
- (4) NO AT GRADE RAILROAD CROSSINGS

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Control 0025-05-024, ETC

Sheet 92

Sheet 92 **Control** 0025-05-024, ETC CONT 3014-02-005 WHARTON CO. CONT'D]---LENGTH WIDTH AREA FΤ FTSY _____ ===== ANDER 08/01/2022 DATE



Project Number:	Sheet 93			t Number:
County: GONZALES, ETC	-05-024, ETC	Control 0025		y: GONZALES, ETC
Highway: UA 90, ETC				ay: UA 90, ETC
[FM 647 PROJECT #37 CONT :	сонт]	05 WHARTON CO.	CONT 3014-02-00	M 647 PROJECT #37
BASIS OF		IMATE	OF EST	BASIS
ITEM DESCRIPTION RAT	I UNIT	BASIS QUANTITY	RATE	DESCRIPTION
666 REF PROF PAV MRK TY I(Y)4"(BRK) PASS 10 LF/ SINGLE NO PASS 10 LF/	17155 GAL 808 GAL 655 GAL	34309 SY 1615 SY 1309 SY	0.50 GAL/SY 0.50 GAL/SY 0.50 GAL/SY	SHOULDERS
	 18618 GAL	TOTAL		
666 REF PROF PAV MRK TY I(Y)4"(SLD) SINGLE NO PASS DOUBLE NO PASS GORE	312 CY 15 CY 12 CY	34309 SY 1615 SY 1309 SY	1 CY/110 SY 1 CY/110 SY 1 CY/110 SY	SHOULDERS
	339 CY	TOTAL		
 668 PREFAB PAV MRK TY C(W) (12") (SLD ISLAND 668 PREFAB PAV MRK TY C(W) (24") (SLD STOP BAR 	318 EA 26 EA 10 EA	12736 LF 130 LF X 2 EST		
	354 EA	TOTAL		
668 PREFAB PAV MRK TY C(W) (36") (YLD 672 REFL PAV MRKR TY II-A-A PASS 1 EA/8	2395 LF 645 LF 	9580 LF 2580 LF	BRK) 10 LF/40 LF 10 LF/40 LF	
SINGLE NO PASS1 EA/4DOUBLE NO PASS1 EA/4	3040 LF	TOTAL		
GORE 2 EA/2	2580 LF 760 LF 520 LF 3860 LF	2580 LF 380 LF X 2 130 LF X 4 TOTAL	SLD)	REFL PAV MRK TY II(Y)4"(SINGLE NO PASS DOUBLE NO PASS GORE
		EST	" (SLD) (100MIL)	RE PM W/RET REQ TY I(W)4 EDGELINE

Sheet 93

Control 0025-05-024, ETC

CONT 3014-02-00	5 WHARTON CO.	сомт'д]
OF EST	IMATE	
	BASIS QUANTITY	Y UNIT
7)4"(BRK)(100MIL) 10 LF/40 LF 10 LF/40 LF	9580 LF 2580 LF	2395 LF 645 LF
	TOTAL	3040 LF
7)4"(SLD)(100MIL)	2580 LF 380 LF X 2 130 LF X 4	2580 LF 760 LF 520 LF
	TOTAL	3860 LF
12") (SLD)	EST	136 LF
24") (SLD)	EST	24 LF
36")(YLD TRI)	EST	5 EA
1 EA/80 LF 1 EA/40 LF 1 EA/40 LF 2 EA/20 LF	9580 LF 2580 LF 380 LF 130 LF X 2	120 EA 65 EA 10 EA 26 EA
	TOTAL	221 EA

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 3205-04-007 COUNTY : WHARTON LENGTH : 3,740.00 FT = 0.708 MI LIMITS : FROM COLORADO C/L TO FM 102	HWY: FM 3013 TYPE: SEAL COAT PROJECT: #38 TRAFFIC: 999 VPD	
LIMITS STA TO STA	LENGTH WIDTH FT FT	AREA SY
(1) STA 0+00.00 TO STA 37+40.00 (5)	3740.00 24	9973
	TOTAL TRAVEL LANE AREA	9973
(1) STA 0+00.00 TO STA 37+40.00 (5)	3740.00 16	6649
	TOTAL SHOULDER AREA	6649

Project Number:

Sheet 94

Control 0025-05-024, ETC

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 3013 PROJECT #38

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 1.000 = TRM 496+0.004 (5) STA 37+40.00 = MP: 1.708 = TRM 496+0.712

(2) NO EQUATIONS

(3) NO EXCEPTIONS

(4) NO RAILROAD CROSSINGS

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Sheet 94 **Control** 0025-05-024, ETC CONT 3205-04-007 WHARTON CO. CONT'D]---LENGTH WIDTH AREA FΤ SY FT_____ AMANDA ANDERLE FL 08/01/2022 DATE



Project Number:				Sheet 9	95
County: GONZALES, ETC		(Control 002	2 5-05-024 , E	ETC
Highway: UA 90, ETC					
[FM 3013 PROJECT #38	CONT 3205-04-	007 WH	ARTON CO.	CONT'D]	
BASIS	OF EST	ІМАТ	E		
TEM DESCRIPTION	RATE	BASIS	QUANTI	FY UNIT	
316 ASPH (TIER I) TRAVEL LANES SHOULDERS	0.50 GAL/SY 0.50 GAL/SY	9973 6649	SY SY	4987 GZ 3325 GZ	AL
			TOTAL	8312 G2	
316 AGGR(TY-PE GR-3 SAC-B) TRAVEL LANES SHOULDERS			SY SY	91 CY 60 CY	
			TOTAL	151 CY	
662 WK ZN PAV MRK SHT TERM(CENTERLINE		3740	LF	94 E2	A
666 REFL PAV MRK TY II(W)4" EDGELINE	(SLD)	EST		7480 LI	F
666 RE PM W/RET REQ TY I(Y) PASS SINGLE NO PASS		2355 1385		589 LH 346 LH	
			TOTAL	 935 li	
666 RE PM W/RET REQ TY I(Y) SINGLE NO PASS	4"(SLD)(100MIL)	1385	LF	1385 LH	F
666 REF PROF PAV MRK TY I (W EDGELINE)4"(SLD)(100MIL)	EST		7480 LI	F

2355 LF

1385 LF

TOTAL

29 EA

35 EA ____

64 EA

672 REFL PAV MRKR TY II-A-A

SINGLE NO PASS

PASS 1 EA/80 LF

1 EA/40 LF

ONZALES, ETC

JA 90, ETC

Sheet 95

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0241-04-024 COUNTY : MATAGORDA LENGTH : 5,298.00 FT = 1.003 MI LIMITS : FROM FM 521 TO 1.207 MI S OF FM 521	HWY: SH 60 TYPE: SEAL COAT PROJECT: #39 TRAFFIC: 1719 VPD	
LIMITS STA TO STA	LENGTH WIDTH FT FT	AREA SY
(1) STA 0+00.00 TO STA 52+98.00 (5)	5298.00 24	14128
	TOTAL TRAVEL LANE AREA	 14128
(1) STA 0+00.00 TO STA 52+98.00 (5)	5298.00 20	11773
	TOTAL SHOULDER AREA	11773

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

[£	SH 60	PROJECT	#39	CONT
		MITS TO STA ======		
	TA 0+00.0 TA 52+98.0			
(2) N (3) N	O EQUATION O EXCEPTIO O AT GRADE	S NS		

DESIGN ENGINEER

Sheet 96

Control 0025-05-024, ETC

Sheet 96 **Control** 0025-05-024, ETC MATAGORDA CO. CONT'D]---LENGTH WIDTH AREA FTFΤ SY ------

544+0.782 544+1.785

0241-04-024

Amanda Anderle Hing, P.E.





County: GONZALES, ETC

Highway: UA 90, ETC

[ЅН 60	PROJECT	#39	CONT 024	1-04-02	24 MATA	GORDA CO. (CONT ' D]
	B A 3	SIS	OF	EST	IMAT	E		
ITEM DES					BASIS		/ UNI	Т
316 ASPH (TI	ER I)					SY SY	6781 5651	GAL
						TOTAL		
316 AGGR (TY- TRAVE SHOUL	L LANES		1 CY/110 1 CY/110	SY SY	14128 11773	SY SY	107	СҮ
						TOTAL	235	
662 WK ZN PA CENTE					5298	LF	132	EA
666 RE PM W/ Edgel		Y I(W)4	"(SLD)(100)MIL)	EST		10596	LF
666 RE PM W/ Pass singl			10 LF/40	LF		LF LF		LF
						TOTAL		
666 RE PM W/ Singl	ret req t E no pass		"(SLD)(100	OMIL)	875	LF	875	LF
	av mrk ty Oad stop		4") (SLD)		EST		24	LF
668 PREFAB P	AV MRK TY	C(W)(R	R XING)		EST		1	EA

Project Number:

Sheet 97

Control 0025-05-024, ETC

County: GONZALES, ETC

Highway: UA 90, ETC

[ѕн б	50	PROJ	ECT	#	39		С	ONT 02	41-	04-	-02	24		м	ATA	GOI	RDA CO.	CONI	'D]
			в	A	S	I	S		OF	Е	S	т	I	М	A	т	Е				
ITEM		DESC	CRIPTI	EON					RATE				BA	ASI	S			QUANTIT	Y	UNI	т
672	RE	FL PAV	MRKR	TY	IJ	[-A	-A														
		PASS						1	EA/80	LF					44	123	LF	1		55	ΕA
		SINGL	E NO I	PASS	5			1	EA/40	LF					8	375	LF	1		22	ΕA
																		TOTAL		77	EA

Control 0025-05-024, ETC

Sheet 97

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0241-05-013 COUNTY : MATAGORDA LENGTH : 41,302.00 FT = 7.822 MI LIMITS : FROM 1.207 MI S OF FM 521 TO FM 2031		
LIMITS STA TO STA	FT FT	AREA SY
<pre>(1) STA 0+00.00 TO STA 4+88.00 (3) (3) STA 5+60.00 TO STA 390+25.00 STA 390+25.00 TO STA 392+95.00 STA 392+25.00 TO STA 413+74.00 (5)</pre>	488.00 26 38465.00 26 270.00 26-37	1410 111121
	TOTAL TRAVEL LANE AREA	122311
<pre>(1) STA 0+00.00 TO STA 4+88.00 (3) (3) STA 5+60.00 TO STA 386+33.00 STA 386+33.00 TO STA 389+55.00 STA 389+55.00 TO STA 392+25.00 STA 392+25.00 TO STA 413+74.00 (5)</pre>	38073.0020322.0022270.0022-14	84607 787
	TOTAL SHOULDER AREA	90361
INTERSECTIONS COUNTY ROADS & CITY STREETS (24 EA)	VAR VAR	2050
	TOTAL INTERSECTION AREA	2050

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

[ЅН 60	PROJECT #40	CONT
S	LIMITS STA TO STA	

(1) STA 0+00.00 = MP: 24.781 = TRM 544+1.785 (5) STA 413+74.00 = MP: 32.616 = TRM 552+1.635

(2) NO EQUATIONS

- (4) RAILROAD CROSSING: 1 RETAINED STA 4+88.00 TO STA 5+60.00

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Sheet 98

Control 0025-05-024, ETC

Sheet 98 **Control** 0025-05-024, ETC т 0241-05-013 MATAGORDA CO. CONT'D]---LENGTH WIDTH AREA \mathbf{FT} FTSY _____ (3) EXCEPTION: STA 4+88.00 TO STA 5+60.00 = -72.00 FT = -0.013 MI(RR XING) AMANDA ANDERLE FLING 08/01/2022 DATE 105989



Proje	ct Number:				Shee	et 99
Coun	ty: GONZALES, ETC		Cor	trol 002	5-05-024	, ET
Highv	vay: UA 90, ETC					
[:	SH 60 PROJECT #40	CONT 0241-05-0	13 MATAGO	RDA CO.	CONT ' D]
	BASIS	OFEST				
ITEM	DESCRIPTION				Y UNI	Т
316	ASPH (TIER I) TRAVEL LANES SHOULDERS INTERSECTIONS	0.50 GAL/SY 0.50 GAL/SY 0.50 GAL/SY	122311 SY 90361 SY 2050 SY		61156 45181 1025	GAL GAL GAL
				TOTAL	107362	
316	AGGR(TY-PE GR-3 SAC-B) TRAVEL LANES SHOULDERS INTERSECTIONS	1 CY/110 SY 1 CY/110 SY 1 CY/110 SY	122311 SY 90361 SY 2050 SY		1112 821 19	
				TOTAL	1952	СҮ
662	WK ZN PAV MRK SHT TERM(T TURN LANE	•	410 LF		21	EA
662	WK ZN PAV MRK SHT TERM(T CENTERLINE		39282 LF	1	982	EA
	CONTINUOUS LT TURN GORE BEGIN/END NO PASSING				80	
				TOTAL	1153	EA
666	REFL PAV MRK TY I(W)8"(S Turn lane	LD) (100MIL)	EST		410	LF
666	RE PM W/RET REQ TY I(W)4 EDGELINE	"(SLD)(100MIL)	EST		82604	LF
666	RE PM W/RET REQ TY I(Y)4 PASS SINGLE NO PASS CONTINUOUS LT TURN	10 LF/40 LF 10 LF/40 LF		1	6864 2369 810	LF
		,	1010 11	TOTAL		

County: GONZALES, ETC

Highway: UA 90, ETC

[SH	60	PROJECT	#40	CON
L	011	00	TROOPERT	1 - 2 0	0011

666 RE PM W/RET REQ TY I(Y)4″(SI Single no pass	R
DOUBLE NO PASS CONTINUOUS LT TURN GORE	

[\$	SH 60 PRO	JECT #40)	CONT	024	1-05	-01	13	MATZ	GOF	DA	co.	CONT ' D]
	I	BASI	S						АТ	E				
ITEM	DESCRIPI	TION		RA	ΤE			BAS						
666	RE PM W/RET I SINGLE NO DOUBLE NO CONTINUOUS GORE	REQ TY I PASS PASS	(Y)4″						9475 2352 1620	LF LF LF	X Z	2	9475 4704 3240 1600	LF LF LF LF
											TO	FAL	19019	
668	PREFAB PAV ME STOP BAR RAILROAD S CROSSWALK	STOP BAR		") (SL	D)				EST EST EST		TO	TAL	68 48 50 166	LF LF
668	PREFAB PAV ME LT TURN	RK TY C(W) (ARI	ROW)					EST				4	EA
668	PREFAB PAV MI	RK TY C (W)(RR	XING)				EST				1	EA
672	REFL PAV MRKE TURN LANE	R TY I-C		1 EA	/20	LF			410	LF			21	EA
672	REFL PAV MRKH PASS SINGLE NO DOUBLE NO CONTINUOUS GORE	PASS PASS	N		/40 /40 /40	LF LF LF			27455 9475 2352 1620 400	LF LF LF	XŹ	2	343 237 59 81 80	EA EA EA EA
											TO:	FAL	800	

[\$	SH 60	PRO	JECI	c #	40		со	NT C)24	1-05	6-01	13		MZ	ATA	GOR	DA CO	. со	NT'D]
								F												
ITEM	DES(CRIPT	ION					RATI	Ξ			B.	ASI	ΓS		ļÇ	QUANTI	TY	UNI	
	RE PM W/ SINGL DOUBL CONTI GORE	RET F E NO E NO	EQ PAS PAS	ty S S	I((Y) 4'								94 23 16	75 52 20	LF LF LF	X 2 X 2 X 4		9475 4704 3240 1600	LF LF LF
																	TOTAL		.9019	
668	PREFAB P STOP RAILR CROSS	BAR OAD S	TOP				1″)	(SLD)					Ε	ST ST ST				68 48 50	LF LF
																	TOTAL		166	LF
668	PREFAB P LT TU		кт	Y	C (W	I) (AI	RROV	₹)						E	ST				4	EA
668	PREFAB P	AV MF	K T	Y (C (W	I) (RI	x x	ING)						E	ST				1	EA
672	REFL PAV TURN			I	-c		1	EA/	20	LF				4	10	LF			21	EA
672	REFL PAV PASS SINGL DOUBL CONTI GORE	E NO E NO	PAS PAS	S S			1 1 1 1	EA/ EA/ EA/	40 40 40	LF LF LF				94 23 16	75 52 20	LF LF LF	X 2 X 2		237 59 81	EA EA EA
																	TOTAL		 800	

672	REFL PA	V MRKR	ΤY	I-C		
	TURN	LANE			1	E

[:	SH 60	PROJE	ECT	#	40		CO	NT (024	1-0	5-	-01	.3		м	АТА	GOF	DA	co.	со	NT ' D]
							0															
rem	I DESC	RIPTI	ON			Ι		RAT	Е				В	ASI	IS		(QUA	NTI	ΤY	UN]	
566	RE PM W/R SINGLE DOUBLE CONTIN GORE	ET RE NO P. NO P.	Q T ASS ASS	'Y	Ι(Y)4'									94 23 16	175 352 520	LF LF LF	X X	2 2		9475 4704 3240 1600	LF LF LF
																		то	TAL		L9019	
568	PREFAB PA STOP E RAILRC CROSSW	BAR DAD ST) (24	4″)(SLD))						E	EST EST EST		то	TAL		68 48 50 166	LF LF
568	PREFAB PA LT TUR		ΤY	r c	C (W) (Al	RROW	1)							Ε	EST					4	EA
568	PREFAB PA	V MRK	ΤY	: C	C (W) (RI	R XI	NG)							I	EST					1	EA
572	REFL PAV TURN I				-C		1	EA/	20	LF					4	110	LF				21	EA
572	REFL PAV PASS SINGLE DOUBLE CONTIN GORE	NO P.	ASS ASS	5			1 1 1	EA/ EA/ EA/	40 40 40	LF LF LF					94 23 16	175 352 520	LF LF LF	Х	2		343 237 59 81 80	EA EA EA EA
																		то	TAL		800	EA

Sheet 99

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0847-04-008 COUNTY : MATAGORDA LENGTH : 12,445.00 FT = 2.357 MI LIMITS : FROM FM 2668 TO SH 60	HWY: FM 2078 TYPE: SEAL COAT PROJECT: #41 TRAFFIC: 369 VPD	
LIMITS STA TO STA	LENGTH WIDTH FT FT	AREA SY
(1) STA 0+00.00 TO STA 124+45.00 (5)	12445.00 26	======================================
	TOTAL TRAVEL LANE AREA	35952
INTERSECTIONS FM 2668 SH 60 COUNTY ROADS (3 EA)	VAR VAR VAR VAR VAR VAR	182 111 182

475 TOTAL INTERSECTION AREA

Sheet 100

Control 0025-05-024, ETC

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 2078 PROJECT #41

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 0.000 = TRM 646-0.043 (5) STA 124+45.00 = MP: 2.357 = TRM 648+0.349

(2) NO EQUATIONS

- (3) NO EXCEPTIONS
- (4) NO AT GRADE RAILROAD CROSSINGS

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Sheet 100 **Control** 0025-05-024, ETC CONT 0847-04-008 MATAGORDA CO. CONT'D]---LENGTH WIDTH AREA FΤ FTSY _____ =====

08/01/2022 DATE



Project Number:				Shee	et 10
County: GONZALES, ETC			Control 002	5-05-024	, ET
lighway: UA 90, ETC					
[FM 2078 PROJECT	#41 CONT 0847-	04-008 MAT	AGORDA CO.	CONT ' D]
BA	SIS OF E	S T I M A T	Е		
TEM DESCRIPTION	RATE	BASIS	QUANTII	Y UNI	T
316 ASPH (TIER II) TRAVEL LANES	0.48 GAL/SY 0.48 GAL/SY			228	GAL
			TOTAL	17485	
316 AGGR(TY-PE GR-3 S. TRAVEL LANES INTERSECTIONS	AC-B) 1 CY/110 SY 1 CY/110 SY	z 35952 z 475	SY SY		СҮ
			TOTAL	331	
662 WK ZN PAV MRK SHT	TERM(TAB)TY Y-2				
CENTERLINE BEGIN/END NO P.	1 EA/40 LF ASSING	12445 EST		311 10	ΕA
			TOTAL		
666 REFL PAV MRK TY I					
PASS SINGLE NO PASS		7 3010 7 4913		753 1228	
			TOTAL	1981	LF
666 REFL PAV MRK TY I SINGLE NO PASS DOUBLE NO PASS			LF LF X 2		
			TOTAL	 13557	
	T /H) /// / OT D) /1 00				
666 RE PM/RET REQ TY EDGELINE	I(W)4"(SLD)(100MIL)	ESI	1	24890	LF

County: GONZALES, ETC

Highway: UA 90, ETC

[]	FM 2078 PROJE	ECT #41	CONT	0847-0	4-00)8	MATZ	AGORD	DA CO.	CONT ' D]
	В	ASI	s o i	F E S	ЗТ	ΙM	A T	Е			
	DESCRIPTI							. ~			 Т
	REF PROF PAV M	RK TY I	(Y) 4" (BR	к) (100м)	L)						
	PASS		10 L	F/40 LF			3010	LF		753	LF
	SINGLE NO P	ASS	10 L.	F/40 LF			4913	LF		1228	
								:	TOTAL	1981	
666	REF PROF PAV M	RK TY I	(Y) 4" (SL	D) (100MI	[L)						
	SINGLE NO P									4913	
	DOUBLE NO P	ASS					4322	LF X	X 2	8644	LF
								5	IOTAL	13557	LF
668	PREFAB PAV MRK	TY C(W)	(24″) (S	LD)							
	STOP BAR	,	(/ (-)	,			EST			24	LF
672	REFL PAV MRKR	TY II-A-	-A								
			1 EA	/80 LF			3010	LF		38	ΕA
	SINGLE NO P										
	DOUBLE NO P			/40 LF							
								:	TOTAL	269	EA

-[FM	2	07	8			PR	0	JE	СТ	#	41			сс	N	C (084	17	-04	1 –	00	8		м	АТ	AGC	RD	A	co	. (CON	T'D]	
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'EM		1								DN						RA	ΑT	E			I		В	AS								·	UN	ΓI	 C
66	 I	REE	 7 :	PR	OF	' I	?A1	v	MF	ĸĸ	ТҮ	. 1	(Y) 4′	″ (I	BR	K)	(1	00	мΙ	L)														
				AS	-									1	10	L	F/	40	L	F					30	10	L	E					753	3	LF
			S	ΙN	GL	Ε	N	С	PF	ASS	3			1	10	L	F/	40	L	F					49	913	L	F					.228		
																												I	roı	AL			.981		
66	I	١E										[]	Y) I) 4′	" (:	SL	D)	(1	00	MI	L)							_							
			-		-					ASS																							913		
			D	50.	ЗЪ	E	INC)	ΡF	ASS	5														43	5 Z Z	Ц.	E X	<u> </u>	-		3 	8644	ŧ.	<u> </u>
																												Т	ro1	AL		13	8557	1	LF
68	1	PRF	ान :	٩B	P	74	7 P	MR	к	ጥነ	, ,	: (īv	1) (]	24'	7)	(5	т.п)																	
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72	T	न ज ९	т т.	P	Δ 77	· .	/RI	KB	ч	v	тт	·_z	A-A																						
	1			AS		-									11	ΞA	/ 8	0	LF						30)10	Ŀ	F					38	3.	ΕA
				-																													123		
																																	108		
																												г	IO.	AL			269)	EA

Sheet 101

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 1321-01-023 COUNTY : MATAGORDA LENGTH : 43,513.00 FT = 8.241 MI LIMITS : FROM SH 35 TO FM 521	HWY: FM 1095 TYPE: SEAL COAT PROJECT: #42 TRAFFIC: 661 VPD	
LIMITS STA TO STA	LENGTH WIDTH AREA FT FT SY	Ā
(1) STA 0+00.00 TO STA 48+93.00 (3) (3) STA 49+05.00 TO STA 435+25.00 (5)	4893.00 26 1413 38620.00 26 11156	-
	TOTAL TRAVEL LANE AREA 125704	4
INTERSECTIONS SH 35 FM 459 FM 521 COUNTY ROADS (11 EA)	VAR VAR 410 VAR VAR 207 VAR VAR 888 VAR VAR 1610	7 8

TOTAL INTERSECTION AREA 3121

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 1095 PROJECT #42 CONT

LIMITS STA TO STA _____

(1) STA 0+00.00 = MP: 1.006 = TRM 53 (5) STA 435+25.00 = MP: 9.249 = TRM 54

(2) NO EQUATIONS

- (3) EXCEPTION: STA 48+93.00 TO STA 49
- (4) RAILROAD CROSSING: 1 RETAINED STA

Amanda Anderle Fr

DESIGN ENGINEER

Control 0025-05-024, ETC

Sheet 102

			Sheet 102	
	C	control 0025-	05-024, ETC	
1321-01-023	MATAC	GORDA CO. C	ОМТ'Д]	
	FT	WIDTH FT	AREA SY	
532-0.026 540+0.253				
9+05.00 = -1 A 48+93.00 I	.2.00 FT =	-0.002 MI(RR XING)	
1 10 90.00 1		00.00		
		جم	ATE OF TET	٩.
lling of		*: *:		*!, *!,
Hing., P.E.	08/01/20	0 <u>22</u> AMA	NDA ANDERLE FLI	NG

08/01/2022 DATE



Projec	t Number:				Sheet 103
Count	y: GONZALES, ETC		C	Control 0025	-05-024, ETC
Highw	ay: UA 90, ETC				
[F	M 1095 PROJECT #42	CONT 1321-01-02	23 MATA	GORDA CO. (сомт'д]
	BASIS	OF EST	IMAT	E 	
	DESCRIPTION				
316	ASPH (TIER II) TRAVEL LANES INTERSECTIONS				
				TOTAL	61836 GAL
316	AGGR(TY-PE GR-3 SAC-B) TRAVEL LANES INTERSECTIONS	1 CY/110 SY 1 CY/110 SY	125704 3121	SY SY	1143 CY 28 CY
				TOTAL	1171 CY
662	WK ZN PAV MRK SHT TERM(T CENTERLINE BEGIN/END NO PASSING		43513 EST	LF	1088 EA 10 EA
				TOTAL	1098 EA
666	REFL PAV MRK TY II(Y)4" PASS SINGLE NO PASS	10 LF/40 LF	30128 11344		7532 LF 2836 LF
				TOTAL	10368 LF
666	REFL PAV MRK TY II(Y)4" SINGLE NO PASS DOUBLE NO PASS	(SLD)		LF LF X 2	11344 LF 4082 LF
				TOTAL	 15426 LF
666	RE PM W/RET REQ TY I(W)4 EDGELINE	4"(SLD)(100MIL)	EST		87026 LF
666		4"(BRK)(100MIL) 10 LF/40 LF 10 LF/40 LF	30128 11344		7532 LF 2836 LF
				TOTAL	 10368 LF

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 1095 PROJECT #42 CONT 1321

BASIS OF

666	REF	PROF	PAV	MRK	TY	I(Y)	4″ (SLD)	(100
ITEM		DESC	RIPI	CION		I	RAT	E

SINGLE NO PASS DOUBLE NO PASS

- 668 PREFAB PAV MRK TY C(W)(18")(SLD) SCHOOL ZONE
- 668 PREFAB PAV MRK TY C(W) (24") (SLD) RAILROAD STOP BAR STOP BAR CROSSWALK

668 PREFAB PAV MRK TY C(W) (RR XING)

668 PREFAB PAV MRK TY C(W) (18") (YLD TR

672	REFL PAV MRKR TY II-A-A			
	PASS	1	EA/80	ΓF
	SINGLE NO PASS	1	EA/40	ΓF
	DOUBLE NO PASS	1	EA/40	LE

			Shee	t 103
	(Control 0025	-05-024	, ETC
VT 1321-01-02	23 MATA	GORDA CO. C	CONT ' D]
F E S T	IMAT	E 		
RATE	BASIS	QUANTITY	UNI	Т
LD) (100MIL)		LF LF X 2	11344 4082	
		TOTAL	15426	
SLD)	EST		48	LF
SLD)	EST EST EST			LF LF LF
		TOTAL	128	
NG)	EST		2	EA
YLD TRI)	EST		14	EA
A/80 LF A/40 LF A/40 LF	30128 11344 2041	LF	377 284 51	EA EA
		TOTAL	712	

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 2697-01-036 COUNTY : MATAGORDA LENGTH : 26,972.00 FT = 5.108 MI LIMITS : FROM FM 3057 TO FM 521	HWY: FM 2668 TYPE: SEAL COA PROJECT: #43 TRAFFIC: 560 VPD	υT
LIMITS STA TO STA	LENGTH WIDTH FT FT	AREA SY
(1) STA 0+00.00 TO STA 269+72.00 (5)	26972.00 28	83913
	TOTAL TRAVEL LANE ARE	 A 83913
INTERSECTIONS FM 2078	VAR VAR	162

564 TOTAL INTERSECTION AREA

Sheet 104

Control 0025-05-024, ETC

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 2668 PROJECT #43

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 15.331 = TRM 532+0.631 (5) STA 269+72.00 = MP: 20.439 = TRM 536+1.752

(2) NO EQUATIONS

(3) NO EXCEPTIONS

(4) NO RAILROAD CROSSINGS

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Sheet 104 **Control** 0025-05-024, ETC CONT 2697-01-036 MATAGORDA CO. CONT'D]---LENGTH WIDTH AREA FΤ SY \mathbf{FT} _____ _____

08/01/2022 DATE



Project Number: Sl	eet 105
County: GONZALES, ETC Control 0025-05-0	24, ETC
Highway: UA 90, ETC	
	_
[FM 2668 PROJECT #43 CONT 2697-01-036 MATAGORDA CO. CONT	D]
BASIS OF ESTIMATE	
ITEM DESCRIPTION RATE BASIS QUANTITY U	NIT
316 ASPH (TIER II)TRAVEL LANES0.48 GAL/SY83913 SY402INTERSECTIONS0.48 GAL/SY564 SY2	78 GAL 71 GAL
TOTAL 405	49 GAL
316 AGGR (TY-PE GR-3 SAC-B)	
TRAVEL LANES 1 CY/110 SY 83913 SY 7	63 CY 5 CY
	 68 CY
662 WK ZN PAV MRK SHT TERM(TAB)TY Y-2	
CENTERLINE 1 EA/40 LF 26972 LF 6 BEGIN/END NO PASSING EST	74 EA 10 EA
	84 EA
666 REFL PAV MTK TY II(W)4"(SLD) EDGELINE EST 539	44 LF
666 REFL PAV MRK TY II(Y)4"(BRK)	
SINGLE NO PASS 10 LF/40 LF 3820 LF 9	79 LF 55 LF
	 34 LF
666REFL PAV MRK TY II(Y)4"(SLD)SINGLE NO PASS3820 LFDOUBLE NO PASS9454 LF X 2189	20 LF 08 LF
	 28 LF
666REF PROF PAV MTK TY I (W) 4" (SLD) (100MIL)EDGELINEEST539	44 LF

County: GONZALES, ETC

Highway: UA 90, ETC

[1	FM 2668 PROJECT #43	CONT 2697-01-3	6 MATAG	ORDA CO. C	:ОNТ'D]
	BASIS	OF EST	IMATE		
ITEM	DESCRIPTION	RATE	BASIS	QUANTITY	UNIT
666	REF PROF PAV MRK TY I(Y				
	PASS SINGLE NO PASS	10 LF/40 LF 10 LF/40 LF	13516 I 3820 I		3379 LF 955 LF
				TOTAL	 4334 LF
666	REF PROF PAV MRK TY I(Y)4"(SLD)(100MIL)			
	SINGLE NO PASS DOUBLE NO PASS			lf lf x 2	18908 LF
				TOTAL	22728 LF
668	PREFAB PAV MRK TY C(W)(24") (SLD)			
	RAILROAD STOP BAR STOP BAR		EST EST		36 LF 12 LF
				TOTAL	48 LF
668	PREFAB PAV MRK TY C(W)(RR XING)	EST		1 EA
672	REFL PAV MRKR TY II-A-A				
		1 EA/80 LF			
	SINGLE NO PASS DOUBLE NO PASS		3820 I 9454 I		236 EA
				TOTAL	 501 EA

[]	FM 2668 PROJECT #43	CONT 2	2697-0)1-3(6	MATZ	GOR	DA CO.	CONT ' D]
	BASIS	OF	Е	SТ	IМ	АТ	Е			
CEM	DESCRIPTION									
566	REF PROF PAV MRK TY I (Y)	4″ (BRK)	(100M	IL)						
	PASS SINGLE NO PASS	10 LF/- 10 LF/-	40 LF 40 LF			13516 3820	LF LF		3379 955	LF LF
	0111022 110 11100	20 22,	10 11			0020				
								TOTAL	4334	ΓF.
66	REF PROF PAV MRK TY I (Y)	4" (SLD)	(100M	IL)						
	SINGLE NO PASS DOUBLE NO PASS							X 2		
								TOTAL	22728	LF
568	PREFAB PAV MRK TY C(W) (2 RAILROAD STOP BAR	24") (SLD)			EST			36	न.ग
	STOP BAR					EST			12	LF
								TOTAL		
								IOIND	40	ш
568	PREFAB PAV MRK TY C(W)(I	R XTNG)				EST			1	EA
						101			-	
572	REFL PAV MRKR TY II-A-A									
,,,,	PASS		0 LF			13516	LF		169	ΕA
	SINGLE NO PASS									
	DOUBLE NO PASS	1 EA/4	0 LF			9454	LF		236	
								TOTAL	501	EA

Sheet 105

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 3087-01-009 COUNTY : MATAGORDA LENGTH : 12,602.00 FT = 2.386 MI LIMITS : FROM END OF MAINTENANCE TO FM 2668			
LIMITS STA TO STA		WIDTH FT	AREA SY
<pre>(1) STA 0+00.00 TO STA 20+12.00 (3) (3) STA 20+55.00 TO STA 120+70.00 STA 120+70.00 TO STA 126+45.00 (5)</pre>		27 27	6036 30045 2364
	TOTAL TRAVEL	LANE AREA	 38445
INTERSECTIONS FM 2668	VAR	VAR	807

TOTAL INTERSECTION AREA 807

Sheet 106

Control 0025-05-024, ETC

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 3057 PROJECT #44

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 0.000 = TRM 646-0.413 (5) STA 126+45.00 = MP: 2.394 = TRM 648+0.008

(2) NO EQUATIONS

- (4) RAILROAD CROSSING: 1 RETAINED STA 20+12.00 TO STA 20+55.00

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Sheet 106 **Control** 0025-05-024, ETC CONT 3087-01-009 MATAGORDA CO. CONT'D]---LENGTH WIDTH AREA FΤ SY \mathbf{FT} _____ _____ (3) EXCEPTION: STA 20+12.00 TO STA 20+55.00 = -43.00 FT = -0.008 MI (RR XING) AMANDA ANDERLE FL 08/01/2022

DATE



Proje	ct Number:			Sheet 10 [°]
Count	ty: GONZALES, ETC		Control 00	25-05-024, ET
Highv	vay: UA 90, ETC			
[1	FM 3057 PROJECT #44	CONT 3087-01-00	9 MATAGORDA CO	. сомт'д]
	BASI	S OF EST	IMATE	
ITEM	DESCRIPTION	RATE	BASIS QUANTI	TY UNIT
316	ASPH (TIER II) TRAVEL LANES INTERSECTIONS	0.48 GAL/SY 0.48 GAL/SY	38445 SY 807 SY	18454 GAL 387 GAL
			TOTAL	 18841 GAL
316	AGGR (TY-PE GR-3 SAC-B) TRAVEL LANES INTERSECTIONS	1 CY/110 SY		7 CY
662	WK ZN PAV MRK SHT TERM CENTERLINE		12602 LF	315 EA
666	REFL PAV MRK TY II(W)4 EDGELINE	" (SLD)	EST	25204 LF
666	REFL PAV MRK TY II(Y)4 PASS SINGLE NO PASS	10 LF/40 LF	8169 LF 4415 LF	2042 LF 1104 LF
			TOTAL	
666	REFL PAV MRK TY II(Y)4 SINGLE NO PASS	" (SLD)	4415 LF	4415 LF
666	REF PROF PAV MRK TY I(EDGELINE	W)4"(SLD)(100MIL)	EST	25204 LF
666	REF PROF PAV MRK TY I(PASS	10 LF/40 LF	8169 LF	2042 LF
	SINGLE NO PASS	10 LF/40 LF	4415 LF	1104 LF
			TOTAL	3146 LF

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 3057 PROJECT #44 CONT 3087-01-009

BASIS OF ESTIMATE

	BASI	S OF ES	STIMATE	
ITEM	DESCRIPTION	RATE	BASIS	QUANTITY UNIT
666	REF PROF PAV MRK TY : SINGLE NO PASS	 I (Y) 4" (SLD) (100MI		F 4415 LF
668	PREFAB PAV MRK TY C(I STOP BAR RAILROAD STOP BAR	N) (24") (SLD)	EST EST	12 LF 72 LF TOTAL 84 LF
668	PREFAB PAV MRK TY C(N) (RR XING)	EST	2 EA
672	REFL PAV MRKR TY II-2 PASS SINGLE NO PASS	1 EA/80 LF	8169 L1 4415 L1	-
				 TOTAL 212 EA

Sheet 107 Control 0025-05-024, ETC MATAGORDA CO. CONT'D]---

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0088-06-006 COUNTY : VICTORIA LENGTH : 25,668.00 FT = 4.861 MI LIMITS : FROM GUADALUPE RIVER TO N OF US 59	TYPE:		
LIMITS STA TO STA	-		SY
<pre>(1) STA 0+00.00 TO STA 182+92.00 (3) (3) STA 186+62.00 TO STA 247+30.00 (3) (3) STA 247+42.00 TO STA 260+50.00 (5)</pre>	18292.00 6068.00	64 64	130076 43150
	TOTAL TRAVEL	LANE AREA	182527
 (1) STA 0+00.00 TO STA 182+92.00 (3) (3) STA 186+62.00 TO STA 247+30.00 (3) (3) STA 247+42.00 TO STA 260+50.00 (5) 	6068.00		13484 2907
	TOTAL SHO	JLDER AREA	 57040
INTERSECTIONS COUNTY ROADS & CITY STREETS (15 EA)	VAR	VAR	4226
	TOTAL INTERSE	CTION AREA	4226

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[ВU 59Т PROJECT #45

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 0.045 = TRM 638+1.080 (5) STA 260+50.00 = MP: 4.978 = TRM 642+2.008

(2) NO EQUATIONS

(4) RAILROAD CROSSING: 1 RETAINED STA 247+30.00 TO STA 247+42.00

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Sheet 108

Control 0025-05-024, ETC

Sheet 108 **Control** 0025-05-024, ETC CONT 0088-06-006 VICTORIA CO. CONT'D]---LENGTH WIDTH AREA \mathbf{FT} FTSY _____ (3) EXCEPTIONS: STA 182+92.00 TO STA 186+62.00 = -370.00 FT = -0.070 MI (DRY CREEK BRIDGE) STA 247+30.00 TO STA 247+42.00 = - 12.00 FT = -0.002 MI (RR XING) AMANDA ANDERLE FL 08/01/2022 DATE



Project Number:						Shee	t 109
County: GONZALES, ETC Control 0025-05-024, ETC							
Highway: UA 90, ETC							
[BU 59T PROJEC	CT #45 CONT 0	088-06-006	VIC	ror:	IA CO. C	ONT ' D]
в А	ASIS OF	ESTI	мате	Ξ			
TEM DESCRIPTIO	N RATE					UNI	 T
316 ASPH (AC-20-5TR)						
	0.26 GA						
SHOULDERS							
INTERSECTION	S 0.26 GA	AL/SY	4226	SY		1099	GAL
					TOTAL	63386	GAL
316 AGGR (TY-PE GR-4	SAC-B)						
•	а су/14	15 SY	182527	SY		1259	СҮ
SHOULDERS	1 CY/14	15 SY	57040	SY		393	CY
	S 1 CY/14						
					TOTAL	1681	СХ
662 WK ZN PAV MRK S	HT TERM(TAB)TY W						
	1 EA/40						
	1 EA/20) LF	1810 990	LF		91 50	
ISLAND RR XING	1 EA/20 1 EA/20) LF	990 1440			72	
			1110				
					TOTAL	1497	EA
662 WK ZN PAV MRK S	HT TERM(TAB)TY Y-	-2					
GORE) LF	440				
	T TURN 1 EA/40 SS 1 EA/40		25108 140				EA EA
			140				
					TOTAL	1347	EA
666 REFL PAV MRK TY	I(W)(8")(SLD)(10	OMIL)					
TURN LANE			EST			1810	LF
ISLAND			EST			660	LF
RR XING			EST			1440	
					TOTAL	3910	
666 REFL PAV MRK TY	II(W)4"(SLD)						
EDGELINE			EST			51336	LF

County: GONZALES, ETC

Highway: UA 90, ETC

[1	BU 59T PROJECT #45 CONT 0088-06-00	06 VICTORIA CO. C	омт'д]
	BASIS OF EST	IMATE	
ITEM	DESCRIPTION RATE	BASIS QUANTITY	
666	RE PM W/RET REQ TY I(W)4"(BRK)(100MIL) LANE LINE 10 LF/40 LF		
666	RE PM W/RET REQ TY I(Y)4"(BRK)(100MIL) CONTINUOUS LT TURN 10 LF/40 LF	25108 LF X 2	12554 LF
666	RE PM W/RET REQ TY I(Y)4"(SLD)(100MIL) GORE CONTINUOUS LT TURN DOUBLE NO PASS	440 LF X 4 25108 LF X 2 140 LF X 2	50216 LF 280 LF
		TOTAL	52256 LF
666	REF PROF PAV MRK TY I(W)4"(SLD)(100MIL) EDGELINE	EST	51336 LF
668	PREFAB PAV MRK TY C(W)(12")(SLD) ISLAND	EST	330 LF
668	PREFAB PAV MRK TY C(W)(18")(SLD) School zone	EST	168 LF
668	PREFAB PAV MRK TY C(W)(24")(SLD) STOP BAR RAILROAD STOP BAR	EST EST	100 LF 240 LF
		TOTAL	340 LF
668	PREFAB PAV MRK TY C(W)(ARROW) LT TURN	EST	33 EA
668	PREFAB PAV MRK TY C(W)(WORD) "ONLY"	EST	1 EA
668	PREFAB PAV MRK TY C(W)(RR XING)	EST	6 EA

Sheet 109

Project Number:			Sheet 110	Project Number
County: GONZALES, ETC		Control 0025	-05-024, ETC	County: GONZA
Highway: UA 90, ETC				Highway: UA 90
[BU 59T PROJECT #45	CONT 0088-06-0	06 VICTORIA CO. C	CONT'D]	
BASIS	OF EST	IMATE		
ITEM DESCRIPTION	RATE	BASIS QUANTITY	UNIT	
668 PREFAB PAV MRK TY C(Y)(GORE CROSSHATCH	24") (SLD)	EST	220 LF	
672 REFL PAV MRKR TY I-C LANE LINE	1 EA/80 LF	25688 LF X 2	642 EA	
TURN LANE	1 EA/20 LF	1810 LF	91 EA	
ISLAND RR XING	1 EA/20 LF 2 EA/20 LF	990 LF 1440 LF	50 EA 144 EA	
		TOTAL	 927 EA	
672 REFL PAV MRKR TY II-A-A GORE		440 LF X 2	88 EA	
CONTINUOUS LT TURN	1 EA/40 LF	25108 LF X 2	1255 EA	
DOUBLE NO PASS	1 EA/40 LF	140 LF	4 EA	
		TOTAL	1347 EA	

GONZALES, ETC

UA 90, ETC

Sheet 110

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0371-01-092 COUNTY : VICTORIA LENGTH : 18,008.00 FT = 3.410 MI LIMITS : FROM BU 59T TO US 59 N FRONT RD	TYPE: PROJECT:	BU 77S SEAL COAT #46 1839 VPD	
LIMITS STA TO STA	LENGTH FT	FΤ	AREA SY
<pre>(1) STA 0+00.00 TO STA 1+66.00 (3) (3) STA 4+73.00 TO STA 67+35.00 (3) (3) STA 71+00.00 TO STA 179+45.00 STA 179+45.00 TO STA 184+40.00 STA 184+40.00 TO STA 186+80.00 (5)</pre>	166.00 6262.00 10845.00 495.00	26	480 18090 31330
	TOTAL TRAVEL	LANE AREA	
<pre>(1) STA 0+00.00 TO STA 1+66.00 (3) (3) STA 4+73.00 TO STA 67+35.00 (3) (3) STA 71+00.00 TO STA 186+80.00 (5)</pre>	6262.00	16	295 11132 20587
	TOTAL SHO	ULDER AREA	32014
ADDITIONAL AREA RAMP/GORE @ BU 59T RAMPS NORTH OF BUS 59T (2 EA)	VAR VAR	VAR VAR IONAL AREA	6046 7450 13496
	TOTAL ADDIT.	IONAL AREA	13496
INTERSECTIONS COUNTY ROADS (5 EA) FM 446 (1 EA) FRONTAGE ROADS (2 EA)	VAR VAR VAR	VAR VAR VAR	676 164 200
	TOTAL INTERSE	CTION AREA	1040

Project Number: Sheet 111 **County:** GONZALES, ETC **Control** 0025-05-024, ETC Highway: UA 90, ETC ---[BU 77S PROJECT #46 CONT 0371-01-092 VICTORIA CO. CONT'D]---LIMITS LENGTH WIDTH AREA FΤ STA TO STA FTSY _____ (1) STA 0+00.00 = MP: 0.083 = TRM 582+0.051 (5) STA 186+80.00 = MP: 3.620 = TRM 584+1.588 (2) NO EQUATIONS (3) EXCEPTIONS: STA 1+66.00 TO STA 4+73.00 = -307.00 FT = -0.058 MI (RR BRIDGE) STA 67+35.00 TO STA 71+00.00 = -365.00 FT = -0.069 MI (DRY CREEK BRIDGE) (4) NO AT GRADE RAILROAD CROSSINGS Amanda Anderle Hing, P.E. AMANDA ANDERLE FLIN 08/01/2022 DESIGN ENGINEER DATE

Sheet 111



Proje	ct Number:			Sheet 112
Coun	ty: GONZALES, ETC		Contr	ol 0025-05-024, ETC
Highv	way: UA 90, ETC			
[1	BU 77S PROJECT #46	CONT 0371-01-0)92 VICTORIA	A CO. CONT'D]
	BASI	S OF EST	FIMATE	
ITEM	DESCRIPTION	RATE	BASIS QU	ANTITY UNIT
316	ASPH (AC-20-5TR)			
	TRAVEL LANES	0.26 GAL/SY	52673 SY	13695 GAL
	SHOULDERS	0.26 GAL/SY	32014 SY	8324 GAL
	ADDITIONAL AREA INTERSECTIONS	0.26 GAL/SY	13496 SY	3509 GAL
	INTERSECTIONS	0.26 GAL/SY	1040 SY	270 GAL
			Т	OTAL 25798 GAL
316	AGGR(TY-PE GR-4 SAC-B)			
	TRAVEL LANES	1 CY/145 SY	52673 SY	363 CY
	SHOULDERS	1 CY/145 SY	32014 SY	
	ADDITIONAL AREA	1 CY/145 SY	13496 SY	93 CY
	INTERSECTIONS	1 CY/145 SY	1040 SY	7 CY
			Т	OTAL 684 CY
662	WK ZN PAV MRK SHT TERM	(TAB)TY W		
	TURN LANE	1 EA/20 LF	100 LF	5 EA
	GORE	1 EA/20 LF	138 LF X	2 14 EA
			т	 OTAL 19 EA
662	WK ZN PAV MRK SHT TERM	(TAB)TY Y-2		
	CENTERLINE	1 EA/40 LF	17062 LF	427 EA
	GORE	2 EA/20 LF	946 LF X	
	RAMP DOUBLE NO PASS	2 EA/20 LF	360 LF X	2 72 EA
			Т	OTAL 689 EA
666	REFL PAV MRK TY I(W)(8	") (SLD) (100MIL)		
	TURN LANE	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	EST	100 LF
	GORE		138 LF X	

County: GONZALES, ETC

Highway: UA 90, ETC

---[BU 77S PROJECT #46 CONT 0371-0

F E

	BASIS OF E	2
ITEM	DESCRIPTION RATE	
666	REF PAV MRK TY II(W)4"(SLD) EDGELINE	
666	REF PAV MRK TY II(Y)4"(BRK) PASS 10 LF/40 LF SINGLE NO PASS 10 LF/40 LF	
666	REF PAV MRK TY II(Y)4"(SLD) SINGLE NO PASS DOUBLE NO PASS	
666	RE PM W/RET REQ TY I(W)4"(SLD)(100MI RAMP EDGELINE	:1
666	RE PM W/RET REQ TY I(Y)4"(SLD)(100MI Gore	:1

RAMP EDGELINE RAMP DOUBLE NO PASS

666 REF PROF PAV MRK TY I (W) 4" (SLD) (100M EDGELINE

666	REF PROF	PAV	MRK TY	Y I(Y)4″(BRK) (10	00М
	PASS			10	LF/40	LF
	SINGL	e no	PASS	10	LF/40	LF

Control 0025-05-024, E F 0371-01-092 VICTORIA CO. CONT'D] F E S T I M A T E ATE BASIS QUANTITY UNIT EST 36016 LH F/40 LF 8844 LF 2211 LH 7118 LF 2211 LH 1780 LF 7118 LF 718 LF 1780 LH 7118 LF 7118 LF 100 LF X 2 2200 LH 7118 LF 7118 LH 100 LF X 2 2200 LH TOTAL 9318 LH 100 LF X 2 720 LH ST 3720 LH ST 3720 LH ST 36016 LH D) (100MIL) EST 36016 LH					Shee	t 112
F E S T I M A T E ATE BASIS QUANTITY UNIT ATE BASIS QUANTITY UNIT EST 36016 LH F/40 LF 8844 LF 2211 LH F/40 LF 7118 LF 1780 LH F/40 LF 7118 LF 1780 LH TOTAL 3991 LH 100 LF X 2200 LH 1100 LF X 2 2200 LH 1100 LF X 2200 LH 0) (100MIL) EST 3720 LH 1100		(Contro	0025-	-05-024	, ETC
F E S T I M A T E ATE BASIS QUANTITY UNIT ATE BASIS QUANTITY UNIT EST 36016 LH F/40 LF 8844 LF 2211 LH F/40 LF 7118 LF 1780 LH F/40 LF 7118 LF 1780 LH TOTAL 3991 LH 100 LF X 2200 LH 1100 LF X 2 2200 LH 1100 LF X 2200 LH 0) (100MIL) EST 3720 LH 1100						_
ATE BASIS QUANTITY UNIT EST 36016 LH F/40 LF 8844 LF 2211 LH 7118 LF 1780 LH TOTAL 3991 LH 7118 LF 7118 LH 1100 LF X 2 2200 LH TOTAL 9318 LH 100 LF X 2 2200 LH 3000 LH 360 LF X 4 3784 LH ST 3000 LH 360 LF X 2 720 LH				. co. c	ONT ' D]
F/40 LF 8844 LF 2211 LF F/40 LF 7118 LF 1780 LF TOTAL 3991 LF TOTAL 3991 LF 7118 LF 7118 LF 1100 LF X 2 2200 LF TOTAL 9318 LF 0) (100MIL) EST 3720 LF 946 LF X 4 3784 LF ST 3000 LF 360 LF X 2 720 LF TOTAL 7504 LF			QUA	ANTITY		
TOTAL 1780 LF TOTAL 3991 LF TOTAL 3991 LF TOTAL 7118 LF 1100 LF X 2 7118 LF 1100 LF X 2 7118 LF 1100 LF X 2 7118 LF 1100 LF X 2 7118 LF 3010 LF 3720 LF 3720 LF 3720 LF 360 LF X 4 3784 LF 3000 LF 360 LF X 2 720 LF TOTAL 7504 LF		EST			36016	LF
7118 LF 7118 LF 1100 LF X 2 2200 LF TOTAL 9318 LF) (100MIL) Solution State of the state of						
1100 LF X 2 2200 LH TOTAL 9318 LH 9)(100MIL) 946 LF X 4 3784 LH EST 3000 LH 360 LF X 2 720 LH 			тс	TAL	3991	LF
TOTAL 9318 LH (100MIL) (100MIL) 946 LF X 4 3784 LH EST 3000 LH 360 LF X 2 720 LH TOTAL 7504 LH					2200	LF
EST 3720 LE 946 LF X 4 3784 LE EST 3000 LE 360 LF X 2 720 LE TOTAL 7504 LE			тс	TAL		
946 LF X 4 3784 LH EST 3000 LH 360 LF X 2 720 LH TOTAL 7504 LH D) (100MIL)) (100MIL)	EST			3720	LF
 TOTAL 7504 LE D) (100MIL)) (100MIL)	EST			3000	LF
	D) (100MIL)	EST			36016	LF
K) (100MIL) F/40 LF 8844 LF 2211 LF F/40 LF 7118 LF 1780 LF	F/40 LF				1780	LF

TOTAL 3991 LF

Proje	ct Number:			Sheet 113
Coun	ty: GONZALES, ETC		Control 0025	5-05-024, ET
Highv	way: UA 90, ETC			
[BU 77S PROJECT #46	CONT 0371-01-0	92 VICTORIA CO.	CONT'D]
	BASIS	OF EST	IMATE	
ITEM	DESCRIPTION		BASIS QUANTIT	
666	REF PROF PAV MRK TY I(Y) SINGLE NO PASS DOUBLE NO PASS		7118 LF 1100 LF X 2	7118 LF 2200 LF
			TOTAL	 9318 LF
668	STOP BAR PREFAB PAV MRK TY C (Y)(GORE CROSSHATCH	24") (SLD)	EST	100 LF 80 LF
672	REFL PAV MRKR TY I-C TURN LANE GORE	1 EA/20 LF 1 EA/20 LF	100 LF 138 LF X 2 TOTAL	14 EA
672	REFL PAV MRKR TY II-A-A			
	PASS SINGLE NO PASS DOUBLE NO PASS GORE RAMP DOUBLE NO PASS	1 EA/80 LF 1 EA/40 LF 1 EA/40 LF 2 EA/20 LF 2 EA/20 LF	8844 LF 7118 LF 1100 LF 946 LF X 2 360 LF X 2	111 EA 178 EA 28 EA 190 EA 72 EA

County: GONZALES, ETC

Highway: UA 90, ETC

Sheet 113

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 1698-01-024 COUNTY : VICTORIA LENGTH : 33,890.00 FT = 6.418 MI LIMITS : FROM FM 236 TO BU 59T			
LIMITS STA TO STA	FT	FΤ	AREA SY
<pre>(1) STA 0+00.00 TO STA 79+25.00 STA 79+25.00 TO STA 85+20.00 STA 85+20.00 TO STA 156+95.00 STA 156+95.00 TO STA 166+70.00 (3)</pre>	7925.00 595.00 7175.00 975.00 625.00	24 24-26 26 26-68 68-26	21133 1653 20728 5092
	TOTAL TRAVEL	LANE AREA	
(1) STA 0+00.00 TO STA 79+25.00	7925.00 TOTAL SHOU	12 JLDER AREA	10567 10567
INTERSECTIONS COUNTY ROADS & CITY STREETS (12 EA)	VAR	VAR	1862
	TOTAL INTERSEC	TION AREA	1862

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 1685 PROJECT #47 CONT

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 5.012 = TRM (5) STA 347+25.00 = MP: 11.588 = TRM

(2) NO EQUATIONS

(3) EXCEPTION: STA 166+70.00 TO STA 1

(4) NO RAILROAD CROSSINGS

Amanda Anderle Fli

DESIGN ENGIN

Sheet 114

Control 0025-05-024, ETC

		S	heet 114
	Contr	r ol 0025-05-(024, ETC
1698-01-024	VICTORI	A CO. CONT	[סי
I	NGTH V FT	FT	AREA SY
576-0.017 582+0.585			
175+05.00 = -83 (US 77)	35.00 FT = 7 INT - HOT		
		TATE	OF TEHAN
		*	
ling, P.E.			ANDERLE FLING
NEER	08/01/2022 DATE	1. 20 .	CENSED

SIONAL E

Proje	ct Number:				Shee	t 11:
Count	y: GONZALES, ETC		Co	ntrol 0025	-05-024	, ET
Highv	way: UA 90, ETC					
[1	M 1685 PROJECT #47	CONT 1698-01-0	24 VICTO	RIA CO. (CONT ' D]
	BASIS	OFEST	IMATE			
ITEM	DESCRIPTION	RATE	BASIS	QUANTITY	. UNI	Т
316	ASPH (TIER I) TRAVEL LANES SHOULDERS INTERSECTIONS	0.26 GAL/SY 0.26 GAL/SY 0.26 GAL/SY	99811 S 10567 S 1862 S	I I I	25951 2747 484	GAL
				TOTAL		
316		1 CY/110 SY 1 CY/110 SY 1 CY/110 SY	99811 S 10567 S 1862 S	ľ	907 96 17	
				TOTAL	1020	
662	WK ZN PAV MRK SHT TERM(TZ LANE LINE TURN LANE	AB)TY W 1 EA/40 LF 1 EA/20 LF	16355 LI 360 LI	TOTAL	409 18 427	EA
662	CONTINUOUS LT TURN	1 EA/40 LF		F X 2 F X 2	809 32 182 10	EA EA EA
				TOTAL	1033	EA
666	REFL PAV MRK TY I(W)8″(S) TURN LANE	LD) (100MIL)	EST		360	LF
666	REFL PAV MRK TY II(W)4"(S EDGELINE	SLD)	EST		67780	LF
666	REFL PAV MRK TY II(Y)4"(H PASS SINGLE NO PASS	BRK) 10 LF/40 LF 10 LF/40 LF				
				TOTAL	 4314	

BASIS OF EST

ITEM		DESCE	RIPI	TION		RATE	
666	REFL	PAV I	MRK	TY II(Y)4″(S	 LD)	
	S	INGLE	NO	PASS			
	D	OUBLE	NO	PASS			

- 666 RE PM W/RET REQ TY I(W)4"(BRK)(100MIL) LANE LINE 10 LF/40 LF
- 666 RE PM W/RET REQ TY I(Y)4"(BRK)(100MIL) CONTINUOUS LT TURN 10 LF/40 LF
- 666 RE PM W/RET REQ TY I(Y)4"(SLD)(100MIL) CONTINUOUS LT TURN GORE
- 666 REF PROF PAV MRK TY I (W) 4" (SLD) (100MIL) EDGELINE

666	REF PROF	PAV	MRK TY	I(Y)4"(BRK)(100MIL)
	PASS			10 LF/40 LF
	SINGLE	NO	PASS	10 LF/40 LF

666 REF PROF PAV MRK TY I (Y) 4" (SLD) SINGLE NO PASS DOUBLE NO PASS

668 PREFAB PAV MRK TY C(W) (24") (SLD) STOP BAR

Project Number:	Sheet 115						
County: GONZALES, ETC Control 0025-05-024, ETC							
Highway: UA 90, ETC							
	_						
[FM 1685 PROJECT #47 CONT 1698-01-024	VICTORIA CO. CONT'D]						
BASIS OF ESTIM							
ITEM DESCRIPTION RATE BASI	S QUANTITY UNIT						
	11315 LF 11315 LF 15715 LF X 2 31430 LF						
	TOTAL 42745 LF						
666 RE PM W/RET REQ TY I(W)4"(BRK)(100MIL) LANE LINE 10 LF/40 LF	16355 LF 4089 LF						
666 RE PM W/RET REQ TY I(Y)4"(BRK)(100MIL) CONTINUOUS LT TURN 10 LF/40 LF	630 LF X 2 315 LF						
666 RE PM W/RET REQ TY I(Y)4"(SLD)(100MIL) CONTINUOUS LT TURN GORE	630 LF X 2 1260 LF 905 LF X 4 3620 LF						
	TOTAL 4880 LF						
666 REF PROF PAV MRK TY I(W)4"(SLD)(100MIL) EDGELINE	EST 67780 LF						
666 REF PROF PAV MRK TY I(Y)4"(BRK)(100MIL)							

				TOTAL	4314	LF
LF/40	LF	11315	LF		2829	LF
LF/40	LF	5940	LF		1485	LF

			тс	TAL	42745	LF
	15715	LF	Х	2	31430	LF
	11315	LF			11315	LF
)(100MIL)						

15715	X 2	31430
	TOTA	L 42745

EST

135 LF

Project Number:		Sheet 116			
County: GONZALES, ETC Control 0025-05-024, ETC					
Highway: UA 90, ETC					
[FM 1685 PROJECT #47	CONT 1698-01-024 VICTOR	IA CO. CONT'D]			
BASIS	OF ESTIMATE				
ITEM DESCRIPTION	RATE BASIS Q	UANTITY UNIT			
668 PREFAB PAV MRK TY C(W)(A) RT TURN	RROW) EST	2 EA			
668 PREFAB PAV MRK TY C(W)(W "STOP" "AHEAD"	DRD) EST EST	3 EA 3 EA			
		TOTAL 6 EA			
	1 EA/80 LF 16355 LF 1 EA/20 LF 360 LF				
SINGLE NO PASS DOUBLE NO PASS DOUBLE NO PASS CONTINUOUS LT TURN	1 EA/40 LF 7755 LF 2 EA/80 LF 7960 LF 1 EA/40 LF 630 LF 2 EA/20 LF 905 LF	74 EA 283 EA 194 EA 200 EA X 2 32 EA X 2 182 EA 			
		TOTAL 965 EA			

County: GONZALES, ETC

Highway: UA 90, ETC

Sheet 116

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 2601-01-016 COUNTY : VICTORIA LENGTH : 30,288.00 FT = 5.736 MI LIMITS : FROM US 87 TO FM 1686			
LIMITS STA TO STA	LENGTH FT	WIDTH FT	AREA SY
(1) STA 0+00.00 TO STA 0+50.00 (3) (3) STA 0+62.00 TO STA 303+00.00 (5)	50.00 30238.00	25 25 25	======== 139 83994
	TOTAL TRAVEL	LANE AREA	84133
INTERSECTIONS COUNTY ROADS (7 EA)	VAR	VAR	805
	TOTAL INTERSE	CTION AREA	805

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 2615 PROJECT #48 CONT

LIMITS STA TO STA _____

(1) STA 0+00.00 = MP: 0.013 = TRM(5) STA 303+00.00 = MP: 5.751 = TRM 5

(2) NO EQUATIONS

(3) EXCEPTION: STA 0+50.00 TO STA 0+6

(4) RAILROAD CROSSING: 1 RETAINED STA

Amanda Anderle

DESIGN ENGINEER

Sheet 117

			She	et 117			
Control 0025-05-024, ETC							
2601-01-016	VICTO IGTH			J			
	Ί	FΤ	S	Y			
588-0.038 592+1.758							
52.00 = -12.00	FT = -0	.002 MI	(RR XIN	G)			
A 0+50.00 TO SI							
			ATE.	OF TEHAN			
Hing., P.E.			* 7				
INEER	08/01/2 DAT	/	••••••••••	IDERLE FLING			
LINDER	DAT	<u> </u>	. 10	5989			

Projec	t Number:					Shee	t 118
Count	County: GONZALES, ETC				Control 0025	-05-024,	, ETC
Highw	a y: UA 90,	ETC					
[E	м 2615	PROJECT #48	CONT 2601-01-	016 VIC	TORIA CO.	CONT ' D]
		BASIS	OFESI	IMAT	E		
ITEM			RATE				
316	ASPH (TIE	R II)	0.50 GAL/SY 0.50 GAL/SY				
						42470	
316	TRAVEL	E GR-3 SAC-B) LANES ECTIONS	1 CY/110 SY 1 CY/110 SY	84133 805	SY SY	7	СҮ
					TOTAL	772	
662	CENTER	MRK SHT TERM LINE END NO PASSING	1 EA/40 LF	30288 EST		10	EA
					TOTAL	767	
666		MRK TY II(Y)4"					
		NO PASS	10 LF/40 LF 10 LF/40 LF		LF LF	6313 1000 	LF
					TOTAL	7313	
666	SINGLE	MRK TY II(Y)4" NO PASS NO PASS	(SLD)		LF LF X 2	4000 2000	
					TOTAL	 6000	

666 RE PM W/RET REQ TY I(W)4"(SLD)(100MIL) EDGELINE	EST	60576 LF
666 REF PROF PAV MRK TY I(Y)4"(BRK)(100MII	u)	
PASS 10 LF/40 LF	25250 LF	6313 LF
SINGLE NO PASS 10 LF/40 LF	4000 LF	1000 LF

7313 LF

TOTAL

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

[FM 2615 PRO	JECT	#48	3	CON	т 2	601	-01	1-0)16	;		VIC	CTOF	RIA	co.	CO	NT ' D]
	В	AS	I	S	OB	T	E	S	т	I	М	A	т	Е					
ITEM	DESCRIPT	ION			RA	TE				B	ASI	S		(QUAI	NTII	ΓΥ	UNI	т
666	REF PROF PAV		Y I	(Y) 4″	(SLI) (2	1001	1IL)									4000	
	SINGLE NO DOUBLE NO															2		4000 2000	
															TO	TAL		6000	LF
668	PREFAB PAV MR	к тү (C (W) (24″) (SI	LD)													
	STOP BAR RAILROAD S	TOP B	AR			•							IST IST						LF LF
															TO!	TAL		88	LF
668	PREFAB PAV MR	к тү (C (W) (RR	XTNO	2)						E	.ST					1	EA
				/ (241		_,						-	101					-	
672	REFL PAV MRKR	TY I	I-A	-A															
	PASS			1	EA,	/80	LF					252	250	LF				316	ΕA
	SINGLE NO																		
	DOUBLE NO	PASS		1	EA,	/40	LF					10	000	LF				25	ΕA
															TO!	TAL		441	EA

[FM 2615 1	PROJECT	c #4	8	co	NT 2	2601	-0:	1-0	016	5	,	VIC	TOE	RIA	co.	CONT	'D]
		BA	S I	S	0	F	Е	S	т	I	М	A	Т	E					
ITEM	DESCRI	PTION			R	ATE				 В.	ASI	S		(QUA	NTIT	'Y	UNI	т
666	REF PROF PA		TY 1	(Y)4"	' (SI	D) (1001	MIL	.)										
	SINGLE N DOUBLE N																4		LF
															то	TAL	6		
668	PREFAB PAV	MRK TY	С (й	N) (24″	') (S	SLD)													
	STOP BAR RAILROAD		BAR									_	IST IST					40 48	LF LF
															то	TAL		88	LF
668	PREFAB PAV	MRK TY	С (й	1) (RR	XIN	1G)						E	ST					1	EA
672	REFL PAV MR																		
																		316	
	SINGLE N DOUBLE N					A/40 A/40												100 25	
				-		, =0						_ 0							
															то	TAL		441	EA

S	Sheet 118
Control 0025-05-	-024, ETC

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0497-02-044 COUNTY : JACKSON LENGTH : 21,485.00 FT = 4.069 MI LIMITS : FROM FM 234 TO FM 1593	HWY: TYPE: PROJECT: TRAFFIC:		
LIMITS STA TO STA	LENGTH FT	FΤ	AREA SY
<pre>(1) STA 0+00.00 TO STA 59+00.00 (3) (3) STA 63+00.00 TO STA 116+25.00 (3) (3) STA 125+10.00 TO STA 141+10.00 (3) (3) STA 151+70.00 TO STA 203+70.00 (3) (3) STA 204+10.00 TO STA 238+70.00 (5)</pre>	5900.00 5325.00 1600.00 5200.00 3460.00	24 24 24 24	15733 14200 4267 13867 10764
	TOTAL TRAVEL	LANE AREA	 58831
 STA 0+00.00 TO STA 59+00.00 (3) STA 63+00.00 TO STA 116+25.00 (3) STA 125+10.00 TO STA 141+10.00 (3) STA 151+70.00 TO STA 194+80.00 (3) STA 236+55.00 TO STA 238+70.00 (5) 	5325.00 1600.00 4310.00 215.00	20 20 20 16	13111 11833 3556 9578 382
	TOTAL SHO	ULDER AREA	38460
ADDITIONAL AREA STA 107+46.00 TO STA 109+58.00 (BIRD WATCH PARKING)	212.00	22	518
	TOTAL ADDIT	IONAL AREA	518
INTERSECTIONS COUNTY ROADS & CITY STREETS (13 EA)	VAR	VAR	1160

____ TOTAL INTERSECTION AREA 1160

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 616 PROJECT #49 CONT 0497-02-044

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 0.343 = TRM 712+0.316 (5) STA 238+70.00 = MP: 4.863 = TRM 716+0.805

(2) NO EQUATIONS

(4) RAILROAD CROSSING: 1 RETAINED STA 203+70.00 TO STA 204+10.00

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Sheet 119

Control 0025-05-024, ETC

Control 0025-05-024, ETC JACKSON CO. CONT'D]---LENGTH WIDTH AREA FΤ FTSY _____ _____ (3) EXCEPTIONS: STA 59+00.00 TO STA 63+00.00 = - 400.00 FT = -0.076 MI (LAVACA RIVER WEST RELIEF BRIDGE) STA 116+25.00 TO STA 125+10.00 = - 885.00 FT = -0.168 MI (LAVACA RIVER BRIDGE) STA 141+10.00 TO STA 151+70.00 = -1060.00 FT = -0.200 MI (LAVACA RIVER EAST RELIEF BRIDGE) STA 203+70.00 TO STA 204+10.00 = - 40.00 FT = -0.007 MI (RR XING)

Sheet 119

08/01/2022 DATE



Number:	ject Numb	Proje		Sheet 120				ber:	roject
: GONZALES, ETC	5-05-024, ETC	ntrol 0025	Сог		ZALES, ETC	County			
y: UA 90, ETC	hway: UA	High						90, ETC	lighwa
1 616 PROJECT #49 CONT 0497-	[FM 616	[CONT'D]	SON CO. (044 JACK	CONT 0497-02-0	PROJECT #49	[F1
BASIS OF E						TIMATE	OF EST	BASIS	
				Y UNIT			RATE	ESCRIPTION	TEM
REF PROF PAV MRK TY I (Y) 4" (BRK) (100M		666					((TIER I)	316
PASS 10 LF/40 LI				29416 GAL		58831 SY	0.50 GAL/SY		
SINGLE NO PASS 10 LF/40 LF	SIN			19230 GAL 259 GAL		38460 SY 518 SY)ULDERS DITIONAL AREA	
				580 GAL		1160 SY		TERSECTIONS	
				49485 GAL	TOTAL				
REF PROF PAV MRK TY I(Y)4"(SLD)(100M SINGLE NO PASS		666							
								TY-PE GR-3 SAC-B)	316
	_			535 CY		58831 SY	1 CY/110 SY	AVEL LANES	
PREFAB PAV MRK TY C(W) (24") (SLD)		668		350 CY		38460 SY			
STOP BAR				5 CY		518 ST	1 CY/110 SY		
RAILROAD STOP BAR	RAI			11 CY		1160 SY	I CY/IIO SY	TERSECTIONS	
PREFAB PAV MRK TY C(W)(RR XING)	8 PREFAB	668		901 CY	TOTAL		(TAB)TY Y-2	PAV MRK SHT TERM	662
				537 EA	1	21485 LE	1 EA/40 LF	JTERLINE	
REFL PAV MRKR TY II-A-A PASS 1 EA/80 LH		672					(SLD)	AV MRK TY II(W)4'	666
SINGLE NO PASS 1 EA/40 LE				34270 LF		EST		GELINE	
							′ (BRK)	PAV MRK TY II(Y)4'	666
				3058 LF		12230 LE	10 LF/40 LF	SS	
				2256 LF 	1	9025 LE	10 LF/40 LF	IGLE NO PASS	
				5314 LF	TOTAL				
				9025 LF	,	9025 LE	'(SLD)	PAV MRK TY II(Y)4' NGLE NO PASS	666
				8700 LF		EST	4"(SLD)(100MIL)	W/RET REQ TY I(W) GELINE	666
								ROF PAV MRK TY I(V	

					Sheet 120
			(Control 0025-	05-024, ETC
	CONT 04	97-02-04	14 JA	CKSON CO. C	ОМТ'Д]
s	OF	ЕЅТ	ІМАТ	E	
	RATE		BASIS	QUANTITY	UNIT
(Y)4	" (BRK) (1	-			
	10 LF/40 10 LF/40		12230 9025		3058 LF 2256 LF
				TOTAL	 5314 LF
(Y) 4	"(SLD)(1	00MTT.)			
(1)1	. (622) (1	001112)	9025	LF	9025 LF
) (24	") (SLD)				
	/		EST		130 LF

> 72 LF EST _____ TOTAL 202 LF

(C(W)(RR XING)	EST	2 EA
TT-2-2		

1 EA/80	LF	12230	LF	153	ΕA
1 EA/40	LF	9025	LF	226	ΕA
					· _ _

TOTAL 379 EA

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0497-03-011 COUNTY : JACKSON LENGTH : 31,782.00 FT = 6.019 MI LIMITS : FROM WEST CARANCAHUA CREEK TO MATAGORDA C/L			
LIMITS STA TO STA	LENGTH FT	WIDTH FT	AREA SY
(1) STA 0+00.00 TO STA 317+82.00 (5)	31782	28	98877
	TOTAL TRAVEL 1	LANE AREA	98877
INTERSECTIONS COUNTY ROADS (3 EA)	VAR	VAR	375
	TOTAL INTERSEC	FION AREA	375

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 616 PROJECT #50

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 3.229 = TRM 724+0.891 (5) STA 317+82.00 = MP: 9.248 = TRM 730+0.941

(2) NO EQUATIONS

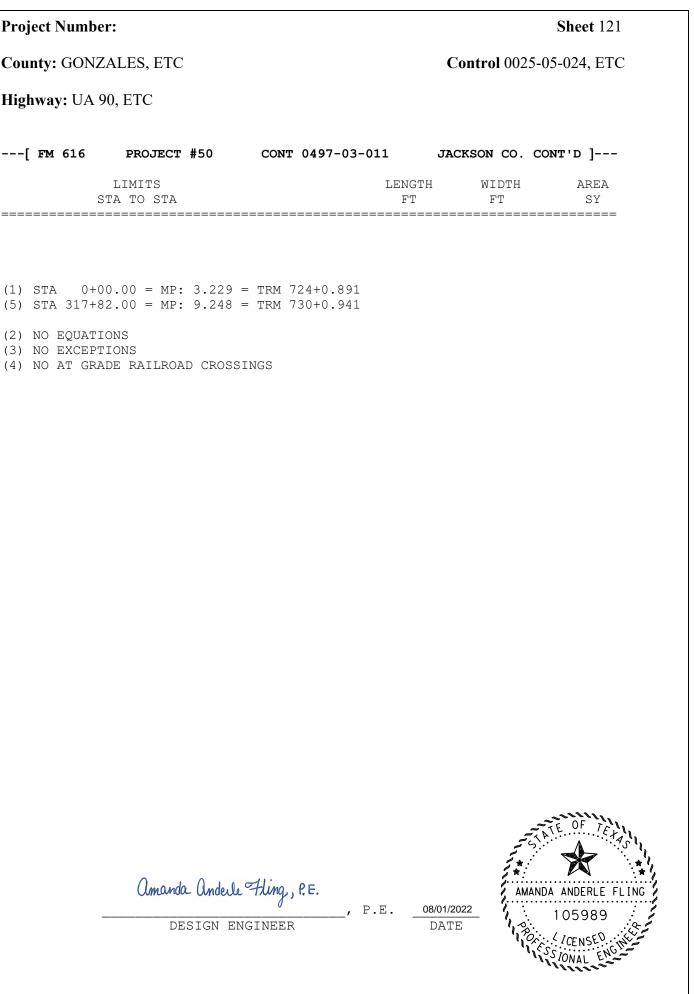
- (3) NO EXCEPTIONS
- (4) NO AT GRADE RAILROAD CROSSINGS

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Control 0025-05-024, ETC

Sheet 121



Project Number:	Sheet 122			ct Number:	Projec
County: GONZALES, ETC	-05-024, ETC	Control 0025		ty: GONZALES, ETC	Count
Highway: UA 90, ETC				vay: UA 90, ETC	Highw
[FM 616 PROJECT #50 CONT	СОМТ'Д]	-011 JACKSON CO.	CONT 0497-03-0	FM 616 PROJECT #50	[F
BASIS OF		ГІМАТЕ	S OF EST	BASIS	
ITEM DESCRIPTION RATH	/ UNIT	BASIS QUANTITY	RATE	DESCRIPTION	ITEM
666REF PROF PAV MRK TY I (Y) 4" (BRK)PASS10 LF/SINGLE NO PASS10 LF/	45483 GAL 173 GAL	98877 SY 375 SY	0.46 GAL/SY 0.46 GAL/SY		316
	45656 GAL	TOTAL			
666 REF PROF PAV MRK TY I(Y)4"(SLD) SINGLE NO PASS DOUBLE NO PASS	899 CY 3 CY	98877 SY 375 SY			316
	 902 CY	TOTAL			
668 prefab pav Mrk ty C(W)(24")(SLD Stop bar	795 EA	31782 LF	1 EA/40 LF	WK ZN PAV MRK SHT TERM	662
672 REFL PAV MRKR TY II-A-A	10 EA 805 EA	EST TOTAL	G	BEGIN/END NO PASSING	
PASS 1 EA/8 SINGLE NO PASS 1 EA/4	OUS EA	IOTAL			
DOUBLE NO PASS 1 EA/4	63564 LF	EST	"(SLD)	REFL PAV MRK TY II(W)4" EDGELINE	666
	7481 LF	29922 LF	"(BRK) 10 LF/40 LF	REFL PAV MRK TY II(Y)4 " PASS	666
	185 LF	740 LF	10 LF/40 LF	SINGLE NO PASS	
	7666 LF	TOTAL			
	740 LF 2240 LF	740 LF 1120 LF X 2	" (SLD)	REFL PAV MRK TY II(Y)4 SINGLE NO PASS DOUBLE NO PASS	666
	2240 HF 2980 LF	TOTAL			
	63564 LF	EST	W)4"(SLD)(100MIL)	REF PROF PAV MRK TY I(W EDGELINE	666

Sheet 122

Control 0025-05-024, ETC

T #50 CONT 0497-03-0	11 JACKSON CO. CO	NT'D]
SIS OF EST		
N RATE	BASIS QUANTITY	UNIT
X TY I(Y)4"(BRK)(100MIL) 10 LF/40 LF	29922 LF 740 LF	7481 LF
	TOTAL	
K TY I(Y)4"(SLD)(100MIL) SS SS	740 LF 1120 LF X 2	2240 LF
	TOTAL	2980 LF
FY C(W)(24")(SLD)	EST	16 LF
Y II-A-A 1 EA/80 LF SS 1 EA/40 LF SS 1 EA/40 LF	740 LF	374 EA 19 EA 28 EA
	TOTAL	421 EA

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0515-01-072 COUNTY : JACKSON LENGTH : 17,250.00 FT = 3.267 MI LIMITS : FROM CR 112(LOST BRIDGE RD) TO US 59 N FRT RD(EL TORO)	HWY: FM 234 TYPE: SEAL COAT PROJECT: #51 TRAFFIC: 209 VPD	
LIMITS STA TO STA	LENGTH WIDTH FT FT	AREA SY
(1) STA 0+00.00 TO STA 172+50.00 (5)	17250.00 26	49833 49833
INTERSECTIONS COUNTY ROADS (6 EA)	VAR VAR TOTAL INTERSECTION AREA	1545 1545

Project Number:

Sheet 123

Control 0025-05-024, ETC

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 234 PROJECT #51

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 8.301 = TRM 538+0.314 (5) STA 172+50.00 = MP: 11.568 = TRM 540+1.588

(2) NO EQUATIONS

(3) NO EXCEPTIONS

(4) NO RAILROAD CROSSINGS

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Sheet 123 **Control** 0025-05-024, ETC CONT 0515-01-072 JACKSON CO. CONT'D]---LENGTH WIDTH AREA FΤ FΤ SY _____ _____

08/01/2022 DATE



Project Number:		Sheet 124	Project Number:	
County: GONZALES, ETC	Control 0025-	05-024, ETC	County: GONZALES, ETC	
Highway: UA 90, ETC			Highway: UA 90, ETC	
[FM 234 PROJECT #51 CONT 0515-(01-072 JACKSON CO. C	олт'д]	[FM 234 PROJECT #51 CONT 051	L5-0
BASIS OF E	S T I M A T E		BASIS OF	E S
ITEM DESCRIPTION RATE	BASIS QUANTITY	UNIT	ITEM DESCRIPTION RATE	
316 ASPH (TIER II) TRAVEL LANES 0.50 GAL/SY INTERSECTIONS 0.50 GAL/SY		24917 GAL 773 GAL	666 REF PROF PAV MRK TY I(Y)4"(SLD)(1 SINGLE NO PASS DOUBLE NO PASS	00м1
	TOTAL	25690 GAL		
316 AGGR(TY-PE GR-3 SAC-B) TRAVEL LANES 1 CY/110 SY INTERSECTIONS 1 CY/110 SY		453 CY 14 CY	668 prefab pav mrk ty C(W)(24")(SLD) Stop bar	
	TOTAL	 467 CY	672 REFL PAV MRKR TY II-A-A PASS 1 EA/80 SINGLE NO PASS 1 EA/40	
662 WK ZN PAV MRK SHT TERM(TAB)TY Y-2 CENTERLINE 1 EA/40 LF BEGIN/END NO PASSING	17250 LF EST	431 EA 10 EA	DOUBLE NO PASS 1 EA/40	
	TOTAL	441 EA		
56 REFL PAV MRK TY II (Y) 4" (BRK)	10445 55	0.611.55		
PASS 10 LF/40 LF SINGLE NO PASS 10 LF/40 LF		2611 LF 763 LF		
	TOTAL	3374 LF		
666 REFL PAV MRK TY II(Y)4"(SLD) SINGLE NO PASS DOUBLE NO PASS	3050 LF 3560 LF X 2	3050 LF 7120 LF		
	TOTAL	 10170 LF		
666 RE PM W/RET REQ TY I(W)4"(SLD)(100MI EDGELINE	L) EST	34500 LF		
666REF PROF PAV MRK TY I (Y) 4" (BRK) (100MPASS10 LF/40 LFSINGLE NO PASS10 LF/40 LF	10445 LF	2611 LF 763 LF		
	TOTAL	 3374 LF		

			Sheet 124
		Control 002	5-05-024, ETC
\$51	CONT 0515-01-	JACKSON CO.	CONT'D]
IS	OFES	TIMATE	
	RATE	BASIS QUANTII	Y UNIT
 Y I(Y)4	4" (SLD) (100MIL)		
		3050 LF 3560 LF X 2	
		TOTAL	10170 LF
C(W)(24	4") (SLD)	EST	65 LF
I-A-A			
	1 EA/80 LF 1 EA/40 LF	10445 LF 3050 LF	131 EA 76 EA
	- mii, iv mi	5555 HI	, 0 111

TOTAL

89 EA _____

296 EA

3560 LF

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0671-01-004 COUNTY : JACKSON LENGTH : 15,835.00 FT = 2.999 MI LIMITS : FROM SH 35 TO CALHOUN C/L		-	
LIMITS STA TO STA	LENGTH FT	WIDTH FT	AREA SY
(1) STA 0+00.00 TO STA 158+35.00 (5)	15835.00	24	42227
	TOTAL TRAVEL I	LANE AREA	42227
INTERSECTIONS SH 35	VAR	VAR	110
	TOTAL INTERSECT	FION AREA	110

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 3280 PROJECT #52

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 5.000 = TRM 544-0.066 (5) STA 158+35.00 = MP: 7.999 = TRM 546+0.996

(2) NO EQUATIONS

(3) NO EXCEPTIONS

(4) NO RAILROAD CROSSINGS

DESIGN ENGINEER

Control 0025-05-024, ETC

Sheet 125

Sheet 125 **Control** 0025-05-024, ETC CONT 0671-01-004 JACKSON CO. CONT'D]---LENGTH WIDTH AREA FΤ SY \mathbf{FT} _____ _____

Amanda Anderle Hing, P.E.

08/01/2022 DATE



County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 3280 PROJECT #52 CONT 0671-01-004 JACKSON CO. CONT'D]---BASIS OF ESTIMATE _____ ITEM | DESCRIPTION | RATE | BASIS | QUANTITY | UNIT _____ 316 ASPH (TIER II) 0.50 GAL SY 0.50 GAL SY 42227 SY 21114 GAL TRAVEL LANES 110 SY INTERSECTIONS 55 GAL _____ TOTAL 21169 GAL 316 AGGR (TY-PE GR-3 SAC-B) 1 CY/110 SY 42227 SY 384 CY TRAVEL LANES 110 SY 1 CY INTERSECTIONS 1 CY/110 SY ____ 385 CY TOTAL 662 WK ZN PAV MRK SHT TERM (TAB) TY Y-2 CENTERLINE 1 EA/40 LF 15835 LF 396 EA 666 REFL PAV MRK TY II(Y)4"(BRK) 10 LF/40 LF 15105 LF 3776 LF PASS SINGLE NO PASS 10 LF/40 LF 730 LF 183 LF _____ TOTAL 3959 LF 666 REFL PAV MRK TY II(Y)4"(SLD) SINGLE NO PASS 730 LF 730 LF 666 REF PROF PAV MRK TY I(Y)4"(BRK)(100MIL) 15105 LF 3776 LF PASS 10 LF/40 LF SINGLE NO PASS 10 LF/40 LF 730 LF 183 LF _____ TOTAL 3959 LF 666 REF PROF PAV MRK TY I(Y)4"(SLD)(100MIL) SINGLE NO PASS 730 LF 730 LF

EST

16 LF

668 PREFAB PAV MRK TY C(W) (24") (SLD) STOP BAR

Sheet 126

Control 0025-05-024, ETC

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 3280 PROJECT #52

ITEM	DESCRIPTION		RA
672	REFL PAV MRKR TY II-A-A		
	PASS	1	EA/
	SINGLE NO PASS	1	EA/

Sheet 126 **Control** 0025-05-024, ETC CONT 0671-01-004 JACKSON CO. CONT'D]---BASIS OF ESTIMATE _____ ATE | BASIS | QUANTITY | UNIT _____ A/80 LF 15105 LF 189 EA A/40 LF 730 LF 18 EA _____ TOTAL 207 EA

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 1090-01-028 COUNTY : JACKSON LENGTH : 44,450.00 FT = 8.418 MI LIMITS : FROM CR 274 TO US 59	HWY: FM 530 TYPE: SEAL COAT PROJECT: #53 TRAFFIC: 369 VPD	
LIMITS STA TO STA	LENGTH WIDTH FT FT	AREA SY
<pre>(1) STA 0+00.00 TO STA 304+80.00 (3) (3) STA 307+90.00 TO STA 328+00.00 STA 328+00.00 TO STA 334+10.00 STA 334+10.00 TO STA 442+60.00 STA 442+60.00 TO STA 447+60.00 (5)</pre>	30480.00 26 2010.00 26 610.00 29 10850.00 26 500.00 24 TOTAL TRAVEL LANE AREA	88053 5807 1966 31344 1333
STA 442+60.00 TO STA 447+60.00 (5)	500.00 16 TOTAL SHOULDER AREA	889 889
INTERSECTIONS COUNTY ROADS (4 EA)	VAR VAR TOTAL INTERSECTION AREA	350 350

Project Numbe	r:				Sheet 127
County: GONZALES, ETC Control 0025-05-024, ETC					5-024, ETC
Highway: UA 9	90, ETC				
[FM 530	PROJECT #53	CONT 1090-01-028	JACI	KSON CO. CO	[סידא
	LIMITS TA TO STA =======		LENGTH FT	WIDTH FT ======	AREA SY ========
		3 = TRM 528+0.740 0 = TRM 536+1.227			
(2) NO EQUATI		TO STA 307+90.00	= -310 00 F	T = -0 059	MT
	DE RAILROAD CROS		- 510.00 F	(BRIDO	
				ۍه	TE OF TEN
	Amano	la Anderle Fling, P.E.	08/01/20	022 AMAN	IDA ANDERLE FLING
	DE	SIGN ENGINEER	DAT	(105989
					SIONAL ENGLA

Control 0025-05-024, ETC

Sheet 127

Project Number:			Sheet 128	Project Number:
County: GONZALES, ETC		Control 002	5-05-024, ETC	County: GONZALES, ETC
lighway: UA 90, ETC				Highway: UA 90, ETC
[FM 530 PROJECT #53	CONT 1090-01-02	8 JACKSON CO.	CONT'D]	[FM 530 PROJECT #53 CONT 1090-01-028
BASIS	OF EST	IMATE		BASIS OF ESTI
TEM DESCRIPTION	RATE	BASIS QUANTIT	Y UNIT	ITEM DESCRIPTION RATE BAS
316 ASPH (TIER II) TRAVEL LANES	0.50 GAL/SY 0.50 GAL/SY	128503 SY 889 SY 350 SY	64252 GAL 445 GAL 175 GAL	666 REF PROF PAV MRK TY I(Y)4"(BRK)(100MIL) PASS 10 LF/40 LF SINGLE NO PASS 10 LF/40 LF
		TOTAL	64872 GAL	
316 AGGR(TY-PE GR-3 SAC-B) TRAVEL LANES SHOULDERS INTERSECTIONS	1 CY/110 SY 1 CY/110 SY 1 CY/110 SY	128503 SY 889 SY 350 SY	1168 CY 8 CY 3 CY	666 REF PROF PAV MRK TY I(Y)4"(SLD)(100MIL) SINGLE NO PASS DOUBLE NO PASS
52 WK ZN PAV MRK SHT TERM(TOTAL	1179 CY	668 prefab pav Mrk ty C(W)(24")(SLD) Stop bar
	1 EA/40 LF	44450 LF EST	1111 EA 10 EA	672 REFL PAV MRKR TY II-A-A Pass 1 Ea/80 LF
		TOTAL	1121 EA	SINGLE NO PASS 1 EA/40 LF DOUBLE NO PASS 1 EA/40 LF
66 REFL PAV MRK TY II(Y)4" PASS SINGLE NO PASS	'(BRK) 10 LF/40 LF 10 LF/40 LF	27445 LF 12600 LF	6861 LF 3150 LF	
		TOTAL	10011 LF	
666 REFL PAV MRK TY II(Y)4" SINGLE NO PASS DOUBLE NO PASS	'(SLD)	12600 LF 4405 LF X 2	12600 LF 8810 LF	
CODI IN LYSS		4403 LF X Z	21410 LF	
666 RE PM W/RET REQ TY I(W) EDGELINE	4"(SLD)(100MIL)	EST	88900 LF	

		Sheet 128
ES, ETC		Control 0025-05-024, ETC
ETC		
PROJECT #53 CONT 1	090-01-028	JACKSON CO. CONT'D]
BASIS OF	ESTIMA	АТЕ
IPTION RAT	E BASIS	QUANTITY UNIT
AV MRK TY I(Y)4" (BRK)		
10 LF/	40 LF 2	7445 LF 6861 LF
NO PASS 10 LF/	40 LF 12	2600 LF 3150 LF

			TOTAL	10011 LF
PAV MRK TY I() NO PASS NO PASS	Y)4"(SLD)(100MIL)		LF LF X 2	12600 LF 8810 LF
110 11100		1105	TOTAL	
7 MRK TY C(W) Ar	(24") (SLD)	EST		40 LF
MRKR TY II-A- NO PASS NO PASS	A 1 EA/80 LF 1 EA/40 LF 1 EA/40 LF	27445 12600 4405	LF	343 EA 315 EA 110 EA
			TOTAL	 768 EA

County: GONZALES, ETC

Highway: UA 90, ETC

	TOTAL INTERSECTIO	ON AREA 3103
SL 521 CITY STREETS & COUNTY ROADS (22 EA)		VAR 237 VAR 2866
INTERSECTIONS		
	TOTAL SHOULDE	
STA 4+91.00 TO STA 22+14.00	1723.00	12 2297
	TOTAL TRAVEL LAN	NE AREA 134492
STA 354+84.00 TO STA 400+20.00 (5)		
STA 64+58.00 TO STA 348+91.00 STA 348+91.00 TO STA 354+84.00		
	2738.00	
STA 34+25.00 TO STA 37+20.00		54 1770
(1) STA 0+00.00 TO STA 4+12.00 (3) (3) STA 4+23.00 TO STA 34+25.00	412.00	39 1785 42 14009
STA TO STA	FT ====================================	FT SY
LIMITS	-	VIDTH AREA
LIMITS : FROM SL 521 TO FM 3131	TRAFFIC: 350	JI VPD
LENGTH : 40,009.00 FT = 7.577 MI		
COUNTY : JACKSON	TYPE: SEA	
CONTROL: 1945-01-023	HWY: FM	1822

Project Number:

---[FM 1822

STA TO STA

Sheet 129 County: GONZALES, ETC **Control** 0025-05-024, ETC Highway: UA 90, ETC PROJECT #54 CONT 1945-01-023 JACKSON CO. CONT'D]---LIMITS LENGTH WIDTH AREA FΤ \mathbf{FT} SY _____ _____ (1) STA 0+00.00 = MP: 1.008 = TRM 526-0.013 (5) STA 400+20.00 = MP: 8.587 = TRM 532+1.578 (2) NO EQUATIONS (3) EXCEPTION: STA 4+12.00 TO STA 4+23.00 = -11.00 FT = -0.002 MI (RR XING) (4) RAILROAD CROSSING: 1 RETAINED STA 4+12.00 TO STA 4+23.00 Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Control 0025-05-024, ETC

Sheet 129

PROJECT DATA

08/01/2022 DATE



-	ct Number: ty: GONZALES, ETC		(C ontrol 00	Sheet 25-05-024,	
	vay: UA 90, ETC				,	
Ign	vay. OA 90, ETC					
[FM 1822 PROJECT #54	CONT 1945-01-	023 JA	CKSON CO	. CONT'D]]
	BASIS	OF EST	IMAT	E		
TEM	DESCRIPTION					
316	ASPH (TTER T)					
	TRAVEL LANES	0.48 GAL/SY	134492	SY	64556	GAL
	SHOULDERS INTERSECTIONS	0.48 GAL/SY 0.48 GAL/SY 0.48 GAL/SY	2297	SY	1103	GAL
	INIERSECIIONS	U.40 GAL/SI	3103	1 C	1489	GAL
				TOTAL	67148	
316	AGGR(TY-PE GR-3 SAC-B)					
		1 CY/110 SY	134492	SY	1223	СҮ
	SHOULDERS	1 CY/110 SY 1 CY/110 SY	2297	SY	21	CY
	INTERSECTIONS	I CY/IIU SY	3103	SI	28	
				TOTAL	1272	
562	WK ZN PAV MRK SHT TERM(T	AB)TY W				
		1 EA/20 LF	500	LF	25	
	RR XING	1 EA/20 LF	80	LF	4	
				TOTAL	 29	
562	WK ZN PAV MRK SHT TERM(T	'AB) TY Y-2				
	CENTERLINE	1 EA/40 LF	33139	LF	828	ΕA
	CONTINUOUS LT TURN			LF X 2		
		2 EA/20 LF		LF X 2	82	
	BEGIN/END NO PASSING		EST		10	ĽА ——
				TOTAL	1243	EA
666	REFL PAV MRK TY I(W)(8")	(SLD) (100MIL)				
	TURN LANE RR XING		EST EST		500 80	LF
				TOTAL	580	
666	REFL PAV MRK TY II(W)4"(SLD)				
	EDGELINE	-	EST		80018	ты

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 1822 PROJECT #54

ITEM	DESCRIPTION		RA
666	REFL PAV MRK TY II(Y)4"	(BRK)	
	PASS	10	ΓE
	SINGLE NO PASS	10	ΓE

666 REFL PAV MRK TY II(Y)4"(SLD) SINGLE NO PASS DOUBLE NO PASS

666	RE	PM W/RE	T REQ	ΤY	I(Y)4	↓″ (BF	ιK)
		CONTINU	JOUS L	T TU	JRN	10	ΓE

666 RE PM W/RET REQ TY I(Y)4"(SLD)(100MIL) CONTINUOUS LT TURN GORE

666	REF	PROF	PAV	MRK	ΤY	I(W)4"(SLD
	E	EDGELI	INE			

666	REF	PROF	PAV	MRK	ΤY	I(Y)	4″ (I	BRK
	I	PASS					10	LF
	0	SINGLE	NO NO	PASS	5		10	LF

666 REF PROF PAV MRK TY I(Y)4"(SLD)(100MIL) SINGLE NO PASS DOUBLE NO PASS

CONT 1945-01-023 JACKSON CO. CONT'D]---BASIS OF ESTIMATE _____ ATE | BASIS | QUANTITY | UNIT _____ LF/40 LF 18180 LF 4545 LF 7940 LF 1985 LF 10 LF/40 LF _____ TOTAL 6530 LF 7940 LF 7940 LF 7019 LF X 2 14038 LF _____ TOTAL 21978 LF K) (100MIL) LF/40 LF 6458 LF X 2 3229 LF 6458 LF X 2 12916 LF 412 LF X 4 1648 LF _____ TOTAL 14564 LF LD) (100MIL) 80018 LF EST K) (100MIL) F/40 LF 18180 LF 4545 LF F/40 LF 7940 LF 1985 LF _____ TOTAL 6530 LF 7940 LF 7940 LF 7019 LF X 2 14038 LF _____ 21978 LF TOTAL

Sheet 130

Project N	umber:				Shee	t 131
Highway: UA 90, ETC [FM 1822 PROJECT #54 CONT 1945-01-023 JACKSON B A S I S O F E S T I M A T E ITEM DESCRIPTION RATE BASIS QOP 668 PREFAB PAV MRK TY C (W) (18") (SLD) SCHOOL ZONE EST 668 PREFAB PAV MRK TY C (W) (24") (SLD) STOP BAR EST RAILROAD STOP BAR EST RAILROAD STOP BAR EST CROSSWALK EST 668 PREFAB PAV MRK TY C (W) (ARROW) LT TURN EST 668 PREFAB PAV MRK TY C (W) (MORD) "ONLY" EST 668 PREFAB PAV MRK TY C (W) (WORD) "ONLY" EST 668 PREFAB PAV MRK TY C (W) (RR XING) EST 668 PREFAB PAV MRK TY C (W) (RR XING) EST 668 PREFAB PAV MRK TY C (W) (RR XING) EST 668 PREFAB PAV MRK TY C (W) (RR XING) EST 667 REFL PAV MRK TY C (W) (RR XING) EST 672 REFL PAV MRK TY I-C TURN LANE EA/20 LF 500 LF RR XING EA/20 LF 80 LF 70 LF 71 PASS EA/40 LF 7940 LF	ontrol 0025-	05-024	, ETO			
Highway:	: UA 90, ETC					
[FM 1	L822 PROJECT #54	CONT 1945-01	-023 JAC	CKSON CO. C	ONT ' D]
	BASIS	SOFES!	ГІМАТЕ	E 		
						Т
668 PR		(18") (SLD)	EST		126	LF
668 PR	STOP BAR RAILROAD STOP BAR	(24") (SLD)	EST		218 120 138	LF LF
				TOTAL		
668 PR	LT TURN	(ARROW)			2	EA EA
				TOTAL	3	EA
668 PR		(WORD)	EST		2	EA
668 PR	EFAB PAV MRK TY C(W)	(RR XING)	EST		4	EA
668 PR		(24") (SLD)	EST		108	LF
672 RE	TURN LANE					ΕA
				TOTAL		EA
672 RE	PASS	1 EA/80 LF 1 EA/40 LF 1 EA/40 LF	7940 7019 6458	LF	227 199 175 323 82	EA EA EA EA
				TOTAL	1006	

County: GONZALES, ETC

Highway: UA 90, ETC

Sheet 131

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0420-08-009 COUNTY : CALHOUN LENGTH : 12,123.00 FT = 2.296 MI LIMITS : FROM SH 172 TO END OF STATE MAINTENANCE			
LIMITS STA TO STA	LENGTH FT	WIDTH FT	AREA SY
(1) STA 0+00.00 TO STA 121+23.00 (5)	12123.00	21	28287
	TOTAL TRAVEL	LANE AREA	 28287
INTERSECTIONS SH 172 COUNTY ROADS & CITY STREETS (7 EA)	VAR VAR	VAR VAR	162 647
	TOTAL INTERSE	CTION AREA	809

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[SS 159 PROJECT #55

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 0.003 = TRM 618-0.013 (5) STA 121+23.00 = MP: 2.299 = TRM 620+0.300

(2) NO EQUATIONS

(3) NO EXCEPTIONS

(4) NO RAILROAD CROSSINGS

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Control 0025-05-024, ETC

Sheet 132

Sheet 132 **Control** 0025-05-024, ETC CONT 0420-08-009 CALHOUN CO. CONT'D]---LENGTH WIDTH AREA FΤ FTSY _____ AMANDA ANDERLE FLIN 08/01/2022 DATE 10598



County: GONZALES, ETC

Highway: UA 90, ETC

[\$	SS 159 PROJECT #55	CONT 0420-08-0)09 CA	THC	UN CO. C	ONT ' D]
	BASIS	OFEST	гімат	E			
LTEM	DESCRIPTION	RATE	BASIS	Ç	QUANTITY	UNI	T
316	ASPH (TIER II)						
	TRAVEL LANES INTERSECTIONS	0.48 GAL/SY 0.48 GAL/SY	28287 809	SY SY		13578 388	GAL
					TOTAL		
316	AGGR (TY-PE GR-3 SAC-B)						
	TRAVEL LANES INTERSECTIONS	1 CY/110 SY 1 CY/110 SY	28287 809	SY SY		7	СҮ
					TOTAL	264	
662	WK ZN PAV MRK SHT TERM(
	CENTERLINE BEGIN/END NO PASSING		12123 EST			303 10	ΕA
					TOTAL		
666	REFL PAV MRK TY II(Y)4"						
	PASS SINGLE NO PASS	10 LF/40 LF 10 LF/40 LF				2756 275	
					TOTAL	3031	
666	REFL PAV MRK TY II(Y)4"	(SLD)					
	SINGLE NO PASS		1100	LF		1100	LF
666	•		11000			0.7.5.6	
	PASS SINGLE NO PASS	10 LF/40 LF 10 LF/40 LF	11023 1100			2756 275	LF
					TOTAL	3031	LF
666	REF PROF PAV MRK TY I(Y SINGLE NO PASS)4"(SLD)(100MIL)	1100	LF		1100	LF
668	PREFAB PAV MRK TY C(W)(STOP BAR	24") (SLD)	EST			12	LF

Project Number:

Sheet 133

Control 0025-05-024, ETC

County: GONZALES, ETC

Highway: UA 90, ETC

---[SS 159 PROJECT #55

ITEM	DESCRIPTION		RA
672	REFL PAV MRKR TY II-A-A		
	PASS	1	EA/
	SINGLE NO PASS	1	EA/

Sheet 133 **Control** 0025-05-024, ETC CONT 0420-08-009 CALHOUN CO. CONT'D]---BASIS OF ESTIMATE _____ ATE | BASIS | QUANTITY | UNIT _____ A/80 LF a/40 LF 11023 LF 138 EA 1100 LF 28 EA _____

TOTAL

166 EA

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 0671-02-004 COUNTY : CALHOUN LENGTH : 10,545.00 FT = 1.997 MI LIMITS : FROM JACKSON C/L TO END OF STATE MAINTENANCE			
LIMITS STA TO STA	LENGTH FT	WIDTH FT	AREA SY
(1) STA 0+00.00 TO STA 105+45.00 (5)	10545.00	24	28120
	TOTAL TRAVEL	LANE AREA	28120
ADDITIONAL AREA FROM TRM 550+0.000 TO EOM	1490.00	24	3973
	TOTAL ADDIT	IONAL AREA	3973

Project Number:

Sheet 134

Control 0025-05-024, ETC

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 3280 PROJECT #56

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 1.000 = TRM 546+0.996 (5) STA 105+45.00 = MP: 2.997 = TRM 550+0.000

(2) NO EQUATIONS

(3) NO EXCEPTIONS

(4) NO RAILROAD CROSSINGS

DESIGN ENGINEER

Sheet 134 **Control** 0025-05-024, ETC CONT 0671-02-004 CALHOUN CO. CONT'D]---LENGTH WIDTH AREA FΤ FΤ SY _____ _____

Amanda Anderle Hing, P.E.

08/01/2022 DATE



Proje	ct Number:			Sheet 13				
Coun	ty: GONZALES, ETC		Control 0025-05-024, ETG					
Highv	vay: UA 90, ETC							
[]	FM 3280 PROJECT #56	CONT 0671-02-00	4 CALHOUN CO). CONT'D]				
	BASI	S OF EST	IMATE					
ITEM	DESCRIPTION	RATE	BASIS QUANT	ITY UNIT				
316		0.50 GAL/SY 0.50 GAL/SY						
			TOTA	L 16047 GA				
316) 1 CY/110 SY 1 CY/110 SY						
			TOTA	L 292 CY				
662	WK ZN PAV MRK SHT TER CENTERLINE	m(tab)ty y-2 1 EA/40 LF	12035 LF	301 EA				
666	REFL PAV MRK TY II(Y) PASS		12035 LF	3009 LF				

12035 LF

12035 LF

3009 LF

150 EA

666 REF PROF PAV MRK TY I(Y)4"(BRK)(100MIL)

10 LF/40 LF

1 EA/80 LF

PASS

PASS

672 REFL PAV MRKR TY II-A-A

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

Sheet 135

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 2016-01-013 COUNTY : CALHOUN LENGTH : 24,030.00 FT = 4.551 MI LIMITS : FROM SH 35 TO SH 172	HWY: FM 2143 TYPE: SEAL COAT PROJECT: #57 TRAFFIC: 1150 VPD	
LIMITS STA TO STA	LENGTH WIDTH FT FT	AREA SY
(1) STA 0+00.00 TO STA 141+19.00 (3) (3) STA 142+79.00 TO STA 241+90.00 (5)	14119.00 28 9911.00 28	43926 30834
	TOTAL TRAVEL LANE AREA	74760
INTERSECTIONS SH 35 SH 172 COUNTY ROADS (3 EA)	VAR VAR VAR VAR VAR VAR	288 242 330
	TOTAL INTERSECTION AREA	860

Р

Proj	ect Nu	mber:								Sheet 136		
Cou	nty: G	ONZALI	ES, ETC					Contro	ol 0025-	05-024, ETC		
Higł	hway: 1	U A 90, E	CTC									
ſ	FM 21	43	PROJECT	#57	CONT	2016-01-013	8	CALHOIN		ONT'D]		
L		LI STA '	MITS TO STA		CONT	2010 01 01	LENGTH FT	WI	I DTH FT	AREA SY		
						614-0.015 618+0.585						
		UATIONS TION: S	TA 141+1	.9.00 TO	STA	142+79.00 =		0 FT = - REEK BRI		MI		
(4)	NO RA	ILROAD	CROSSING	S			LER 5 C	REER DRI	LDGE)			
			C	lmanda ()	Inderle	Hing, P.E.			***	TE OF TEL		
						IGINEER	_ 0	08/01/2022 DATE	AM/	ANDA ANDERLE FL 105989		

Control 0025-05-024, ETC

Sheet 136

5	Project	t 137	Shee			t Number:	Projec
County: GONZALES, ETC	County	, ETC	5-05-024,	Control 0025		y: GONZALES, ETC	Count
Highway: UA 90, ETC	Highw					ay: UA 90, ETC	Highw
[FM 2143 PROJECT #57 CONT	[F1]	CONT ' D	3 CALHOUN CO.	CONT 2016-01-01	M 2143 PROJECT #57	[म
BASIS OF				I M A T E	OF EST	BASIS	
ITEM DESCRIPTION RA	ITEM	Т 	Y UNI	BASIS QUANTIT	RATE	DESCRIPTION	ITEM
666REF PROF PAV MRK TY I (Y) 4" (BRKPASS10 LFSINGLE NO PASS10 LF	666	GAL	37380 430	74760 SY 860 SY			316
			37810	TOTAL			
666 REF PROF PAV MRK TY I(Y)4"(SLD SINGLE NO PASS DOUBLE NO PASS	666	СҮ СҮ	680 8	74760 SY 860 SY	1 CY/110 SY 1 CY/110 SY		816
			688	TOTAL			
668 prefab pav mrk ty C(W)(24")(SL Stop bar	668		601 10	24030 LF EST	TAB)TY Y-2 1 EA/40 LF	WK ZN PAV MRK SHT TERM(I CENTERLINE BEGIN/END NO PASSING	662
672 REFL PAV MRKR TY II-A-A	672		 611	TOTAL			
PASS 1 EA/ SINGLE NO PASS 1 EA/						DEET DAVI MOV MV TT (M) A//	666
DOUBLE NO PASS 1 EA/		LF	48060	EST	(ليتلك	REFL PAV MRK TY II(W)4"(EDGELINE	000
			4022	10222 15		REFL PAV MRK TY II(Y)4"(666
		LF	4833 832	19333 LF 3327 LF	10 LF/40 LF 10 LF/40 LF	PASS SINGLE NO PASS	
			5665	TOTAL			
			3327 2740	3327 LF 1370 LF X 2	SLD)	REFL PAV MRK TY II(Y)4"(SINGLE NO PASS DOUBLE NO PASS	666
			6067	TOTAL			
		LF	48060	EST	4"(SLD)(100MIL)	REF PROF PAV MRK TY I(W) EDGELINE	666

Sheet 137

57	CONT	2016	-01-0	13		CALH	OUN CO.	CONT ' D]
S	OF	' E	SI	' I 1	A N	E			
	RA	те 		BAS	SIS		QUANTII	FY UNI	т
	17 (BRK 10 LF 10 LF	/40 I	ĿF		1933 332			4833 832	LF
							TOTAL	5665	
I(Y)4	₽″(SLD) (100)MIL)					3327 2740	LF
							TOTAL	6067	
₩) (24	4″) (SL	D)			ES	ST		33	LF
A-A	1 EA/ 1 EA/ 1 EA/	40 LI	2		1933 332 137	27 LI	F	242 83 34	EA EA
							TOTAL	359	EA

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 2714-01-005 COUNTY : CALHOUN LENGTH : 18,302.00 FT = 3.466 MI LIMITS : FROM END OF STATE MAINTENANCE TO SH 316			
LIMITS STA TO STA	LENGTH FT	WIDTH FT	AREA SY
(1) STA 0+00.00 TO STA 183+02.00 (5)	18302.00	26	52872
	TOTAL TRAVEL	LANE AREA	52872
INTERSECTIONS FM 2760 CITY STREETS (9 EA)	VAR VAR	VAR VAR	133 644
	TOTAL INTERSE	CTION AREA	777

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 2717 PROJECT #58

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 0.000 = TRM 556-0.004 (5) STA 183+02.00 = MP: 3.466 = TRM 558+1.509

(2) NO EQUATIONS

(3) NO EXCEPTIONS

(4) NO RAILROAD CROSSINGS

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Control 0025-05-024, ETC

Sheet 138

Sheet 138 **Control** 0025-05-024, ETC CONT 2714-01-005 CALHOUN CO. CONT'D]---LENGTH WIDTH AREA FΤ SY \mathbf{FT} _____ _____

08/01/2022 DATE



Project Number:		

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT #58

---[FM 2717

Sheet 139

Control 0025-05-024, ETC

CALHOUN CO. CONT'D]---

BASIS OF ESTIMATE

CONT 2714-01-005

ITEM	DESCRIPTION			· ~	Y UNIT
316	ASPH (TIER II) TRAVEL LANES INTERSECTIONS	0.50 GAL/SY		SY	
	INTERSECTIONS	U.SU GAL/SI	111		389 GA 26825 GA
316	AGGR (TY-PE GR-3 SAC-B)				
	TRAVEL LANES INTERSECTIONS	1 CY/110 SY 1 CY/110 SY	52872 777	SY SY	481 CY 7 CY
				TOTAL	488 CY
662	WK ZN PAV MRK SHT TERM CENTERLINE		18302	T.F	458 FA
	BEGIN/END NO PASSIN		EST		408 EA 10 EA
				TOTAL	468 EA
666	REFL PAV MRK TY II(Y)4 PASS	!"(BRK) 10 LF/40 LF	12070	TD	
	SINGLE NO PASS				
				TOTAL	3853 LF
666	REFL PAV MRK TY II (Y) 4	4″ (SLD)	1 5 4 1	T.D.	1 5 / 1
	SINGLE NO PASS DOUBLE NO PASS			LF LF X 2	
				TOTAL	7095 LF

666 REF PROF PAV MRK TY I(Y)4"(BRK)(100MIL) PASS 10 LF/40 LF 13870 LF SINGLE NO PASS 10 LF/40 LF 1541 LF

TOTAL 3853 LF

3468 LF

385 LF _____

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 2717 PROJECT #58

ITEM	DI	ESCRIPTIO	N		RATE

666 REF PROF PAV MRK TY I(Y)4"(SLD)(100MIL) SINGLE NO PASS DOUBLE NO PASS

668 PREFAB PAV MRK TY C(W) (24") (SLD) STOP BAR

672 REFL PAV MRKR TY II-A-A PASS

PASS			1	EA/80	LF
SINGLE	NO	PASS	1	EA/40	LF
DOUBLE	NO	PASS	1	EA/40	LF

Sheet 139 **Control** 0025-05-024, ETC CONT 2714-01-005 CALHOUN CO. CONT'D]---BASIS OF ESTIMATE -----| BASIS | QUANTITY | UNIT _____ 1541 LF 1541 LF 2777 LF X 2 5554 LF _____ TOTAL 7095 LF EST 36 LF 13870 LF 173 EA A/40 LF 1541 LF 39 EA

TOTAL

69 EA _____

281 EA

2777 LF

County: GONZALES, ETC

Highway: UA 90, ETC

PROJECT DATA

CONTROL: 3171-01-011 COUNTY : CALHOUN LENGTH : 19,938.00 FT = 3.776 MI LIMITS : FROM FM 1090 TO INDEPENDENCE DRIVE			
LIMITS STA TO STA	LENGTH FT	WIDTH FT	AREA SY
(1) STA 0+00.00 TO STA 124+40.00 STA 124+40.00 TO STA 199+38.00 (5)	12440.00 7498.00	29 24	40084 19995
	TOTAL TRAVEL 1	LANE AREA	60079
INTERSECTIONS FM 1090	VAR	VAR	272
COUNTY ROADS & CITY STREETS (7 EA)	VAR	VAR	890
	TOTAL INTERSEC	FION AREA	1162

Project Number:

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 3084 PROJECT #59

LIMITS STA TO STA

(1) STA 0+00.00 = MP: 0.002 = TRM 552-0.035 (5) STA 199+38.00 = MP: 3.778 = TRM 554+1.784

(2) NO EQUATIONS

(3) NO EXCEPTIONS

(4) NO RAILROAD CROSSINGS

Amanda Anderle Hing, P.E.

DESIGN ENGINEER

Control 0025-05-024, ETC

Sheet 140

Sheet 140 **Control** 0025-05-024, ETC CONT 3171-01-011 CALHOUN CO. CONT'D]---LENGTH WIDTH AREA FΤ FTSY _____ =====

08/01/2022 DATE



roje	ct Number:			Sheet 141	
Count	ty: GONZALES, ETC		Cont	rol 0025-05-024, ETC	
lighv	way: UA 90, ETC				
[1	FM 3084 PROJECT #59	CONT 3171-01-01	L CALHOU	и со. соит'д]	
	BASI	S OF EST	IMATE		
	DESCRIPTION				
	ASPH (TIER I) TRAVEL LANES INTERSECTIONS	0.48 GAL/SY	60079 SY	28838 GAL	
		0.10 0.12, 01		 TOTAL 29396 GAL	
316	AGGR(TY-PE GR-3 SAC-B)				
	TRAVEL LANES INTERSECTIONS	1 CY/110 SY 1 CY/110 SY	60079 SY 1162 SY	546 CY 11 CY	
				 TOTAL 557 CY	
662	WK ZN PAV MRK SHT TERM CENTERLINE		19938 LF	498 EA	
666	REFL PAV MRK TY II(W)4 EDGELINE	"(SLD)	EST	24880 LF	
666	REFL PAV MRK TY II(Y)4		10760 55		
	PASS SINGLE NO PASS	10 LF/40 LF 10 LF/40 LF	18760 LF 1120 LF	4690 LF 280 LF	
				TOTAL 4970 LF	
666	REFL PAV MRK TY II(Y)4 SINGLE NO PASS	"(SLD)	1120 LF	1120 LF	
666	RE PM W/RET REQ TY I(W EDGELINE)4"(SLD)(100MIL)	EST	14996 LF	
666	REF PROF PAV MRK TY I(EDGELINE	W)4"(SLD)(100MIL)	EST	24880 LF	
666	REF PROF PAV MRK TY I(PASS	Y)4"(BRK)(100MIL) 10 LF/40 LF	18760 LF	4690 LF	
	SINGLE NO PASS	10 LF/40 LF	1120 LF	280 LF	
				IOTAL 4970 LF	

County: GONZALES, ETC

Highway: UA 90, ETC

---[FM 3084 PROJECT #59 CONT 3171

BASIS OF E

	BASIS OF E	1
ITEM	DESCRIPTION RATE	-
666	REF PROF PAV MRK TY I(Y)4"(SLD)(10) SINGLE NO PASS	- D
668	PREFAB PAV MRK TY C(W)(24")(SLD) STOP BAR	
668	PREFAB PAV MRK TY C(W)(WORD) "STOP" "AHEAD"	
672	REFT. PAV MRKR TY TI-A-A	

672 REFL PAV MRKR TY II-A-A PASS 1 EA/80 LE SINGLE NO PASS 1 EA/40 LE

6056 PREFORMED IN-LANE (TRANS)RUMBLE @ RT TURN

									Shee	t 14	-1
				(Co	ntre	ol 002	25-0	5-024	, ET	Ċ
1-0	1-01	.1		CZ	1LF	IOUN	гсо.	сс	D'TM]	-
E S	з т	I	MA	Т	Е						
		 ва			 I		 ANTT	 TY	 UNI	 т	
0M3	11)		-	1120	L	F			1120	LF	
				EST					38	LF	
				EST					2	ΕA	
				EST						EA	
							TOTA	L	4	EA	
ιF				3760					235		
ŀŁ			-	1120	L.					EA 	
							TOTA	L	263	EA	

E STRIP		
	EST	80 LF

BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

- The Barricade and Construction Standard Sheets (BC sheets) are intended 1. to show typical examples for placement of temporary traffic control devices, construction pavement markings, and typical work zone signs. The information contained in these sheets meet or exceed the requirements shown in the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- The development and design of the Traffic Control Plan (TCP) is the 2. responsibility of the Engineer.
- The Contractor may propose changes to the TCP that are signed and sealed by a licensed professional engineer for approval. The Engineer may develop. sign and seal Contractor proposed changes.
- 4. The Contractor is responsible for installing and maintaining the traffic control devices as shown in the plans. The Contractor may not move or change the approximate location of any device without the approval of the Engineer.
- 5. Geometric design of lane shifts and detours should, when possible, meet the applicable design criteria contained in manuals such as the American Association of State Highway and Transportation Officials (AASHTO), "A Policy on Geometric Design of Highways and Streets," the TxDOT "Roadway Design Manual" or engineering judgment.
- When projects abut, the Engineer(s) may omit the END ROAD WORK, TRAFFIC FINES DOUBLE, and other advance warning signs if the signing would be redundant and the work areas appear continuous to the motorists. If the adjacent project is completed first, the Contractor shall erect the necessary warning signs as shown on these sheets, the TCP sheets or as directed by the Engineer. The BEGIN ROAD WORK NEXT X MILES sign shall be revised to show appropriate work zone distance.
- The Engineer may require duplicate warning signs on the median side of divided highways where median width will permit and traffic volumes justify the signing.
- 8. All signs shall be constructed in accordance with the details found in the "Standard Highway Sign Designs for Texas," latest edition. Sign details not shown in this manual shall be shown in the plans or the Engineer shall provide a detail to the Contractor before the sign is manufactured.
- The temporary traffic control devices shown in the illustrations of the 9. BC sheets are examples. As necessary, the Engineer will determine the most appropriate traffic control devices to be used.
- 10. Where highway construction or maintenance work is being undertaken, other than mobile operations as defined by the Texas Manual on Uniform Traffic Control Devices, CSJ limit signs are required. CSJ limit signs are shown ON BC(2). THE OBEY WARNING SIGNS STATE LAW sign. STAY ALERT TALK OR TEXT LATER and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shall be erected in advance of the CSJ limits. The BEGIN ROAD WORK NEXT X MILES. CONTRACTOR and END ROAD WORK signs shall be erected at or near the CSJ limits. For mobile operations, ČSJ limit signs are not required.
- 11. Traffic control devices should be in place only while work is actually in progress or a definite need exists.
- 12. The Engineer has the final decision on the location of all traffic control devices.
- 13. Inactive equipment and work vehicles, including workers' private vehicles must be parked away from travel lanes. They should be as close to the right-of-way line as possible, or located behind a barrier or guardrail, or as approved by the Engineer.

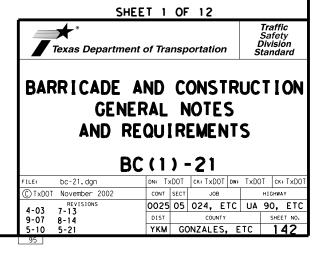
WORKER SAFETY NOTES:

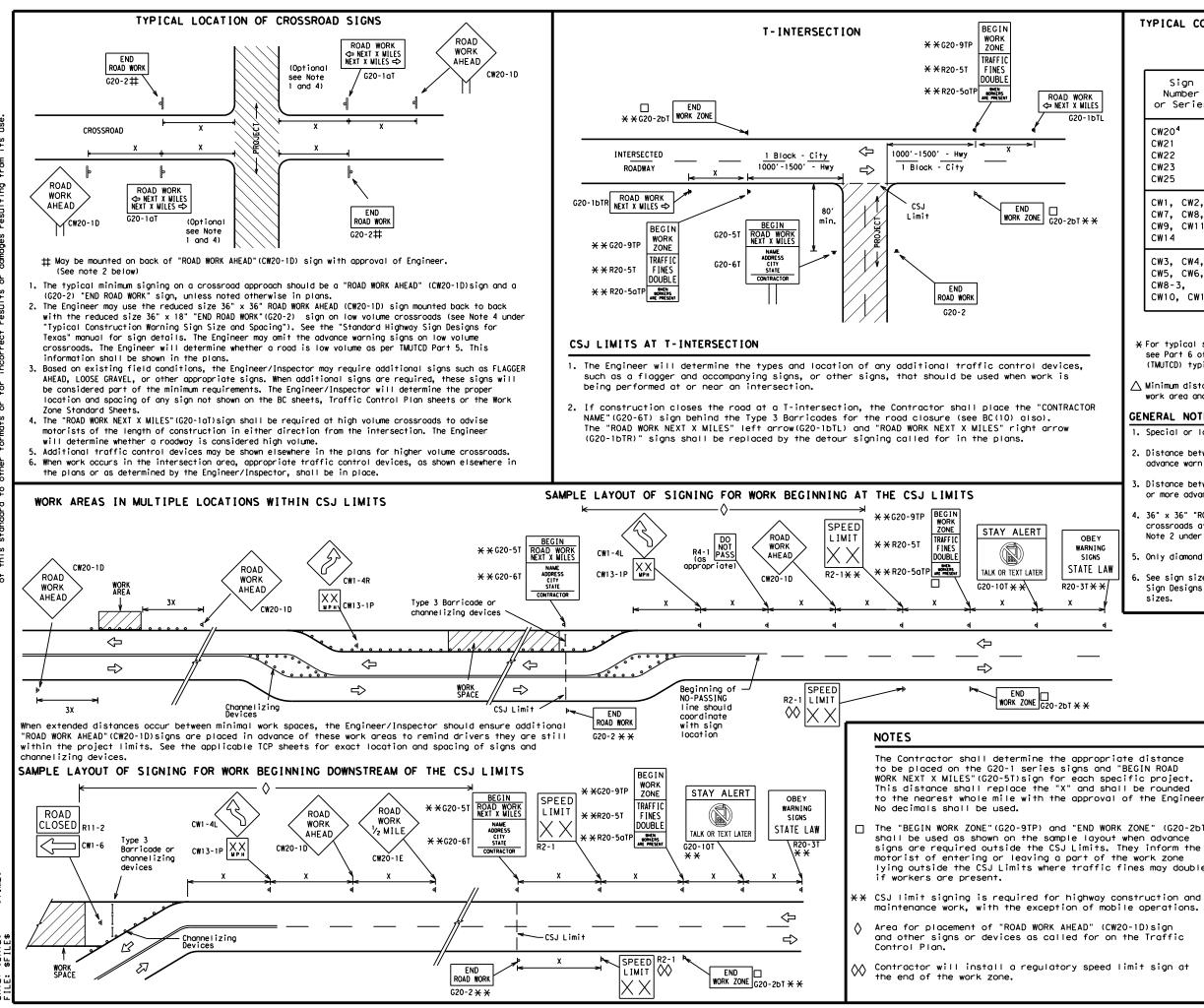
- 1. Workers on foot who are exposed to traffic or to construction equipment within the right-of-way shall wear high-visibility safety apparel meeting the requirements of ISEA "American National Standard for High-Visibility" Apparel." or equivalent revisions, and labeled as ANSI 107-2004 standard performance for Class 2 or 3 risk exposure. Class 3 garments should be considered for high traffic volume work areas or night time work.
- 2. Except in emergency situations, flagger stations shall be illuminated when flagging is used at night.

COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

- 1. Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources.
- 2. Work zone traffic control devices shall be compliant with the Manual for Assessing safety Hardware (MASH).

THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT http://www.txdot.gov				
COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST (CWZTCD)				
DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS)				
MATERIAL PRODUCER LIST (MPL)				
ROADWAY DESIGN MANUAL - SEE "MANUALS (ONLINE MANUALS)"				
STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD)				
TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD)				
TRAFFIC ENGINEERING STANDARD SHEETS				





\$TIME\$ \$D⁄

TYPICAL	CONSTRUCTION	WARNING	SIGN	SIZE	AND	SPACING ^{1,5,6}

SIZE

Sign Number or Series	Conventional Road	Expressway/ Freeway			
CW20 ⁴ CW21 CW22 CW23 CW25	48" × 48"	48" × 48"			
CW1, CW2, CW7, CW8, CW9, CW11, CW14	36" × 36"	48" × 48"			
CW3, CW4, CW5, CW6, CW8-3, CW10, CW12	48" × 48"	48" × 48"			

Posted Speed	Sign∆ Spacing "X"					
MPH	Feet (Apprx.)					
30	120					
35	160					
40	240					
45	320					
50	400					
55	500 ²					
60	600 ²					
65	700 ²					
70	800 ²					
75	900 ²					
80	1000 ²					
*	* 3					

SPACING

★ For typical sign spacings on divided highways, expressways and freeways, see Part 6 of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) typical application diagrams or TCP Standard Sheets.

ightarrow Minimum distance from work area to first Advance Warning sign nearest the work area and/or distance between each additional sign.

GENERAL NOTES

- 1. Special or larger size signs may be used as necessary.
- 2. Distance between signs should be increased as required to have 1500 feet advance warning.
- 3. Distance between signs should be increased as required to have 1/2 mile or more advance warning.
- 4. 36" x 36" "ROAD WORK AHEAD" (CW20-1D)signs may be used on low volume crossroads at the discretion of the Engineer as per TMUTCD Part 5. See Note 2 under "Typical Location of Crossroad Signs".
- 5. Only diamond shaped warning sign sizes are indicated.
- 6. See sign size listing in "TMUTCD", Sign Appendix or the "Standard Highway Sign Designs for Texas" manual for complete list of available sign design sizes.

9-07

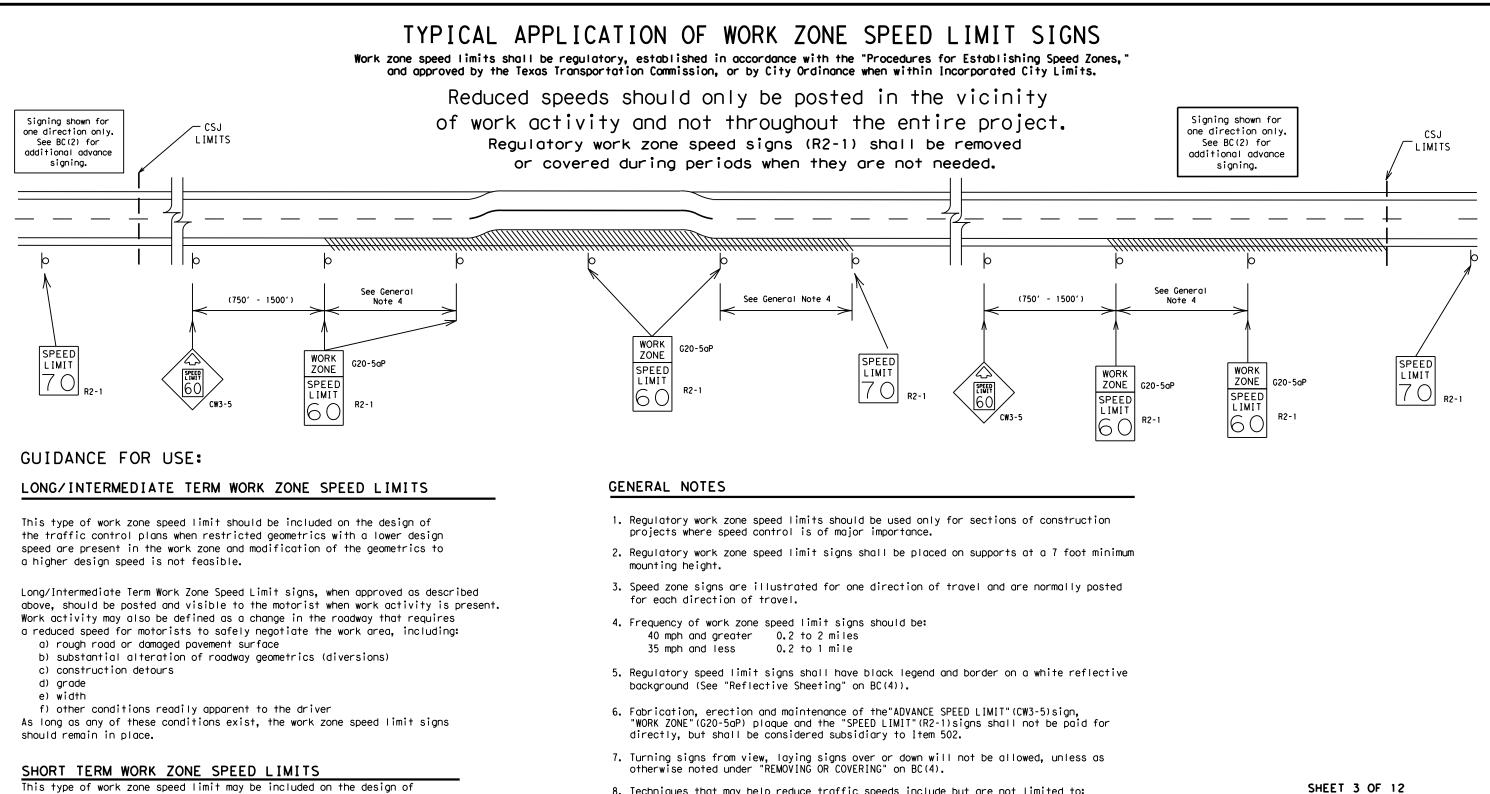
7-13 5-21

8-14

	LEGEND									
		⊢⊣ Type 3 Barricade								
		000 Channelizing Devices								
		4	Sign							
-		x	See Typical Construction Warning Sign Size and Spacing chart or the TMUTCD for sign spacing requirements.							
	SHEET 2 OF 12									
r. T)	Texas Department of Transportation							ety sion		
BARRICADE AND CONSTRUCTION PROJECT LIMIT										
	FILE: 1	- 21 4	BC) -	- 21	DOT DW:	TxD0	T	
		oc-21.dgn November 200			JUI SECT	JCK: TXL		1 X U U	HIGH	
		REVISIONS	-			024,	ETC	UA	90	, ETC

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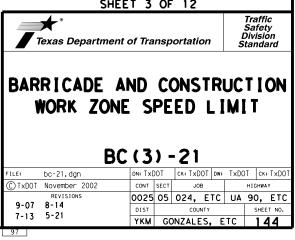
143

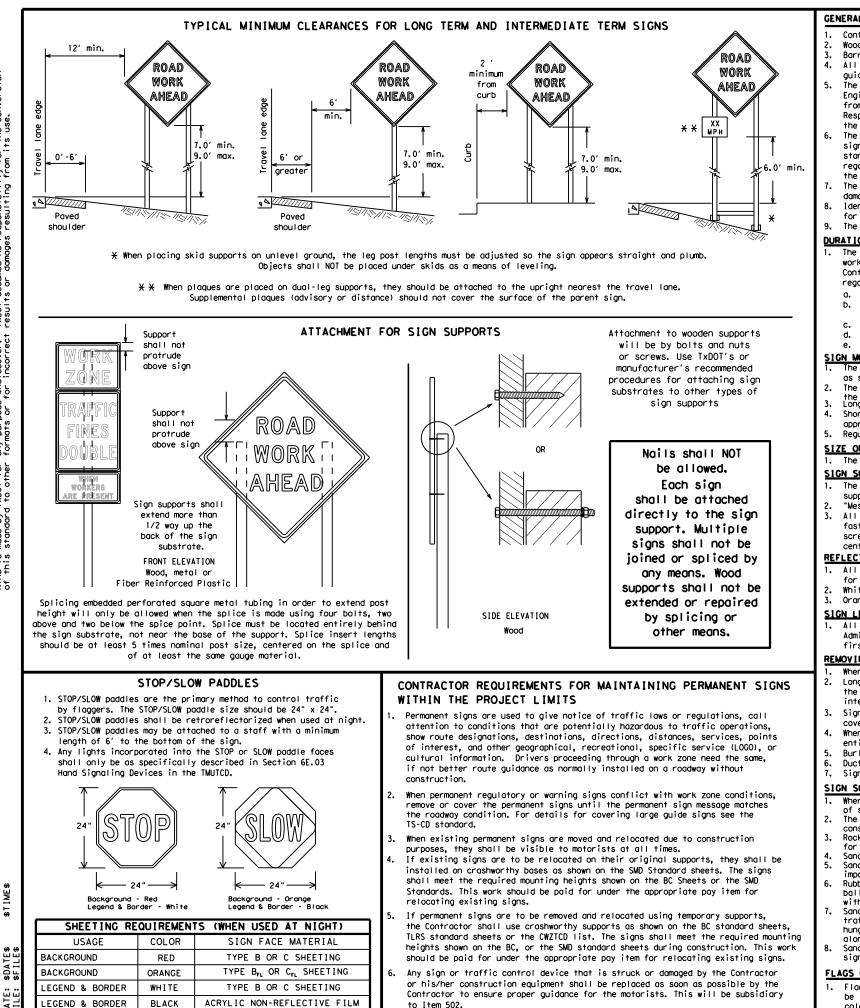


This type of work zone speed limit may be included on the design of the traffic control plans when workers or equipment are not behind concrete barrier, when work activity is within 10 feet of the traveled way or actually in the traveled way.

Short Term Work Zone Speed Limit signs should be posted and visible to the motorists only when work activity is present. When work activity is not present, signs shall be removed or covered. (See Removing or Covering on BC(4)).

- 8. Techniques that may help reduce traffic speeds include but are not limited to: A. Law enforcement.
 - B. Flagger stationed next to sign.
 - C. Portable changeable message sign (PCMS).
 - D. Low-power (drone) radar transmitter.
 - E. Speed monitor trailers or signs.
- 9. Speeds shown on details above are for illustration only. Work Zone Speed Limits should only be posted as approved for each project.
- 10. For more specific guidance concerning the type of work, work zone conditions and factors impacting allowable regulatory construction speed zone reduction see TxDOT form #1204 in the TxDOT e-form system.





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
- guide the traveling public safely through the work zone.
- the Inspector's TxDOT diary and having both the Inspector and Contractor initial and date the agreed upon changes. the Engineer can verify the correct procedures are being followed.
- damaged or marred reflective sheeting as directed by the Engineer/Inspector.
- for identification shall be 1 inch.
- The Contractor shall replace damaged wood posts. New or damaged wood sign posts shall not be spliced.

<u>DURATION OF WORK (as defined by the "Texas Manual on Uniform Traffic Control Devices" Part 6)</u>

- regard to crashworthiness and duration of work requirements.
- a. Long-term stationary work that occupies a location more than 3 days.
- more than one hour. Short-term stationary - daytime work that occupies a location for more than 1 hour in a single daylight period.
- Short, duration work that occupies a location up to 1 hour.
- Mobile work that moves continuously or intermittently (stopping for up to approximately 15 minutes.)

SIGN MOUNTING HEIGHT

- The bottom of Long-term/intermediate-term signs shall be at least 7 feet, but not more than 9 feet, above the paved surface, except as shown for supplemental plaques mounted below other signs.
- the ground. Long-term/Intermediate-term Signs may be used in Lieu of Short-term/Short Duration signing.
- Short-term/Short Duration signs shall be used only during daylight and shall be removed at the end of the workday or raised to
- appropriate Long-term/Intermediate sign height.

SIZE OF SIGNS

The Contractor shall furnish the sign sizes shown on BC (2) unless otherwise shown in the plans or as directed by the Engineer.

SIGN SUBSTRATES

- "Mesh" type materials are NOT an approved sign substrate, regardless of the tightness of the weave. centers. The Engineer may approve other methods of splicing the sign face.

REFLECTIVE SHEETING

- 1. All signs shall be retroreflective and constructed of sheeting meeting the color and retro-reflectivity requirements of DMS-8300
- for rigid signs or DMS-8310 for roll-up signs. The web address for DMS specifications is shown on BC(1).

SIGN LETTERS

1. All sign letters and numbers shall be clear, and open rounded type uppercase alphabet letters as approved by the Federal Highway first class workmanship in accordance with Department Standards and Specifications.

REMOVING OR COVERING

- When sign messages may be confusing or do not apply, the signs shall be removed or completely covered.
- intersections where the sign may be seen from approaching traffic. Signs installed on wooden skids shall not be turned at 90 degree angles to the roadway. These signs should be removed or completely
- covered when not required.
- entire sign face and maintain their opaque properties under automobile headlights at night, without damaging the sign sheeting. Burlap shall NOT be used to cover signs.
- Duct tape or other adhesive material shall NOT be affixed to a sign face.
- Signs and anchor stubs shall be removed and holes backfilled upon completion of work.

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 should be used. 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 shall 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.
- Rubber ballasts designed for channelizing devices should not be used for ballast on portable sign supports. Sign supports designed and manufactured with rubber bases may be used when shown on the CWZTCD list.
- 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 support.
- Sandbags shall NOT be placed under the skid and shall not be used to level sign supports placed on slopes.

FLAGS ON SIGNS

1. Flags may be used to draw attention to warning signs. When used, the flag shall be 16 inches square or larger and shall be orange or fluorescent red-orange in color. Flags shall not be allowed to cover any portion of the sign face.

\$D⁄

All signs shall be installed in accordance with the plans or as directed by the Engineer. Signs shall be used to regulate, warn, and

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 Contractor shall furnish sign supports listed in the "Compliant Work Zone Traffic Control Device List" (CWZICD) for small roadside signs. Supports for temporary large roadside signs shall meet the requirements detailed on the Temporary Large Roadside Signs (TLRS) standard sheets. The Contractor shall install the sign support in accordance with the manufacturer's recommendations. If there is a guestion regarding installation procedures, the Contractor shall furnish the Engineer a copy of the manufacturer's installation recommendations so

The Contractor is responsible for installing signs on approved supports and replacing signs with damaged or cracked substrates and/or

Identification markings may be shown only on the back of the sign substrate. The maximum height of letters and/or company logos used

The types of sign supports, sign mounting height, the size of signs, and the type of sign substrates can vary based on the type of work being performed. The Engineer is responsible for selecting the appropriate size sign for the type of work being performed. The Contractor is responsible for ensuring the sign support, sign mounting height and substrate meets manufacturer's recommendations in

Intermediate-term stationary - work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting

The bottom of Short-term/Short Duration signs shall be a minimum of 1 foot above the pavement surface but no more than 2 feet above

Regulatory signs shall be mounted at least 7 feet, but not more than 9 feet, above the paved surface regardless of work duration.

The Contractor shall ensure the sign substrate is installed in accordance with the manufacturer's recommendations for the type of sign support that is being used. The CWZICD lists each substrate that can be used on the different types and models of sign supports. 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"

White sheeting, meeting the requirements of DMS-8300 Type A, shall be used for signs with a white background. 3. Orange sheeting, meeting the requirements of DMS-8300 Type B_{FL} or Type C_{FL}, shall be used for rigid signs with orange backgrounds.

Administration (FHWA) and as published in the "Standard Highway Sign Design for Texas" manual. Signs, letters and numbers shall be of

Long-term stationary or intermediate stationary signs installed on square metal tubing may be turned away from traffic 90 degrees when the sign message is not applicable. This technique may not be used for signs installed in the median of divided highways or near any

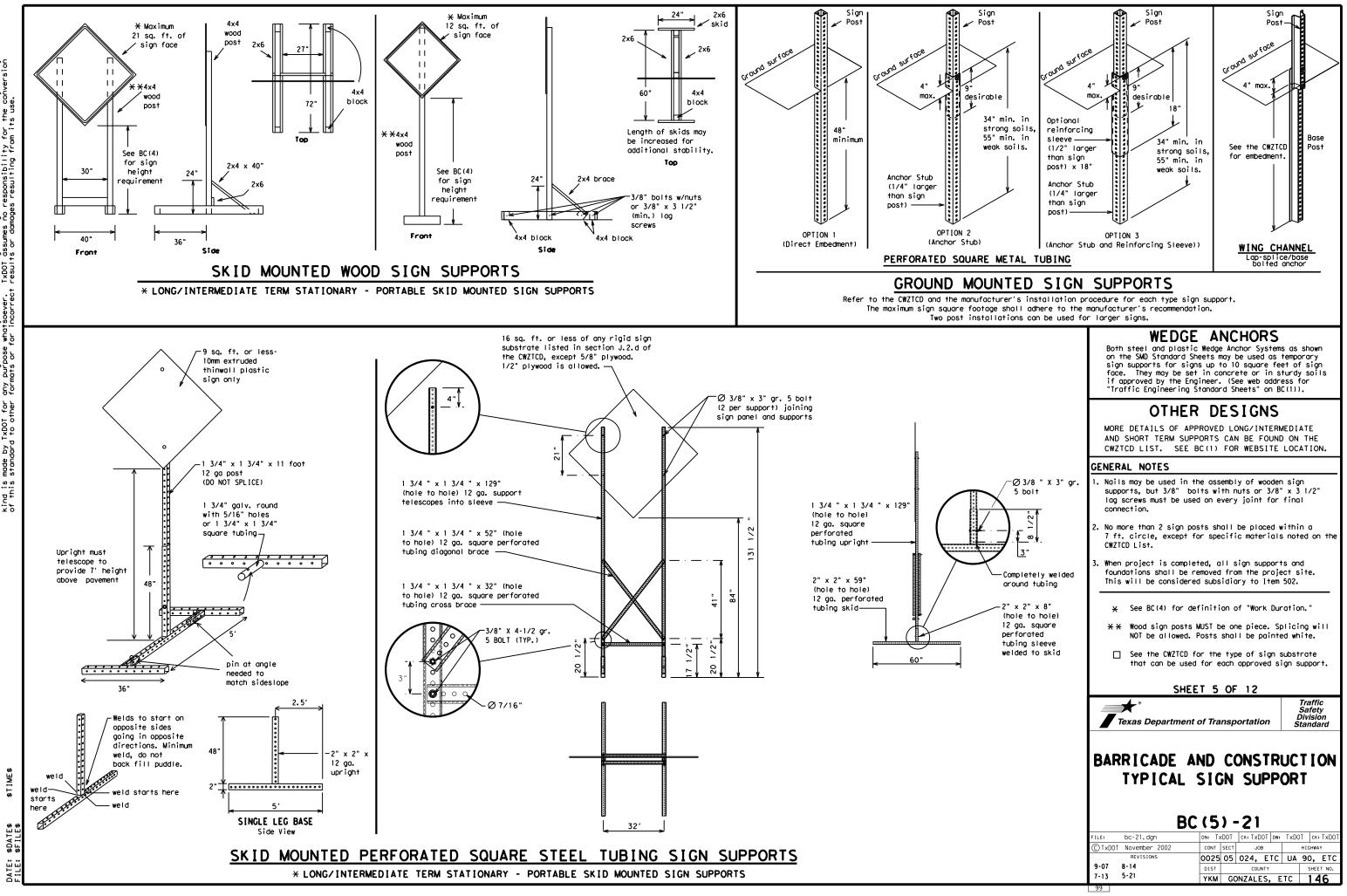
When signs are covered, the material used shall be opaque, such as heavy mil black plastic, or other materials which will cover the

SHEET 4 OF 12

st Texas Department of Transportation Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES

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WHEN NOT IN USE, REMOVE THE PCMS FROM THE RIGHT-OF-WAY OR PLACE THE PCMS BEHIND BARRIER OR GUARDRAIL WITH SIGN PANEL TURNED PARALLEL TO TRAFFIC

PORTABLE CHANGEABLE MESSAGE SIGNS

- 1. The Engineer/Inspector shall approve all messages used on portable changeable message signs (PCMS).
- Messages on PCMS should contain no more than 8 words (about four to 2. eight characters per word), not including simple words such as "TO," "FOR, " "AT, " etc.
- 3. Messages should consist of a single phase, or two phases that alternate. Three-phase messages are not allowed. Each phase of the message should convey a single thought, and must be understood by itself.
- 4. Use the word "EXIT" to refer to an exit ramp on a freeway; i.e., "EXIT CLOSED." Do not use the term "RAMP."
- Always use the route or interstate designation (IH, US, SH, FM) 5. along with the number when referring to a roadway.
- When in use, the bottom of a stationary PCMS message panel should be a minimum 7 feet above the roadway, where possible.
- The message term "WEEKEND" should be used only if the work is to 7. start on Saturday morning and end by Sunday evening at midnight. Actual days and hours of work should be displayed on the PCMS if work is to begin on Friday evening and/or continue into Monday morning.
- The Engineer/Inspector may select one of two options which are available for displaying a two-phase message on a PCMS. Each phase may be displayed for either four seconds each or for three seconds each.
- Do not "flash" messages or words included in a message. The message should be steady burn or continuous while displayed.
- 10. Do not present redundant information on a two-phase message; i.e., keeping two lines of the message the same and changing the third line.
- Do not use the word "Danger" in message.
 Do not display the message "LANES SHIFT LEFT" or "LANES SHIFT RIGHT" on a PCMS. Drivers do not understand the message.
- 13. Do not display messages that scroll horizontally or vertically across the face of the sign.
- 14. The following table lists abbreviated words and two-word phrases that are acceptable for use on a PCMS. Both words in a phrase must be displayed together. Words or phrases not on this list should not be abbreviated, unless shown in the TMUTCD.
- 15. PCMS character height should be at least 18 inches for trailer mounted units. They should be visible from at least 1/2 (.5) mile and the text should be legible from at least 600 feet at night and 800 feet in daylight. Truck mounted units must have a character height of 10 inches and must be legible from at least 400 feet.
- 16. Each line of text should be centered on the message board rather than left or right justified.
- 17. If disabled, the PCMS should default to an illegible display that will not alarm motorists and will only be used to alert workers that the PCMS has malfunctioned. A pattern such as a series of horizontal solid bars is appropriate.

WORD OR PHRASE	ABBREVIATION	WORD OR PHRASE	ABBREVIATION
Access Road	ACCS RD	Major	MAJ
Alternate	ALT	Miles	MI
Avenue	AVE	Miles Per Hour	MPH
Best Route	BEST RTE	Minor	MNR
Boulevard	BLVD	Monday	MON
Bridge	BRDG	Normal	NORM
Cannot	CANT	North	Ν
Center	CTR	Nor thbound	(route) N
Construction Ahead	CONST AHD	Parking	PKING
	XING	Road	RD
CROSSING	DETOUR RTE	Right Lane	RTLN
Detour Route		Saturday	SAT
Do Not	DONT	Service Road	SERV RD
East	E	Shoulder	SHLDR
Eastbound	(route) E	Slippery	SLIP
Emergency	EMER	South	S
Emergency Vehicle	EMER VEH	Southbound	(route) S
Entrance, Enter	ENT EXP LN	Speed	SPD
Express Lane		Street	ST
Expressway	EXPWY XXXX FT	Sunday	SUN
XXXX Feet Fog Ahead	FOG AHD	Telephone	PHONE
		Temporary	TEMP
Freeway	FRWY, FWY FWY BLKD	Thursday	THURS
Freeway Blocked	FRI	To Downtown	TO DWNTN
Friday Hazardous Driving		Traffic	TRAF
		Travelers	TRVLRS
Hazardous Material		Tuesday	TUES
High-Occupancy Vehicle	HOV	Time Minutes	TIME MIN
	HWY	Upper Level	UPR LEVEL
Highway Hour(s)	HR, HRS	Vehicles (s)	VEH, VEHS
Information	INFO	Warning	WARN
Information It Is	ITS	Wednesday	WED
Junction	JCT	Weight Limit	WT LIMIT
Left	LFT	West	W
Left Lane	LFT LN	Westbound	(route) W
Lett Lane Lane Closed	LFT LN LN CLOSED	Wet Pavement	WET PVMT
		Will Not	WONT
Lower Level	LWR LEVEL MAINT		
Maintenance	MAINI		

RECOMMENDED PHASES AND FORMATS FOR PCMS MESSAGES DURING ROADWORK ACTIVITIES (The Engineer may approve other messages not specifically covered here.)

Phase 1: Condition Lists

Road/Lane/Ramp Closure List

		UTTEL CON	
FREEWAY CLOSED X MILE	FRONTAGE ROAD CLOSED	ROADWORK XXX FT	ROAD REPAIRS XXXX FT
ROAD CLOSED AT SH XXX	SHOULDER CLOSED XXX FT	FLAGGER XXXX FT	LANE NARROWS XXXX FT
ROAD CLSD AT FM XXXX	RIGHT LN CLOSED XXX FT	RIGHT LN NARROWS XXXX FT	TWO-WAY TRAFFIC XX MILE
RIGHT X LANES CLOSED	RIGHT X LANES OPEN	MERGING TRAFFIC XXXX FT	CONST TRAFFIC XXX FT
CENTER LANE CLOSED	DAYTIME LANE CLOSURES	LOOSE GRAVEL XXXX FT	UNEVEN LANES XXXX FT
NIGHT LANE CLOSURES	I-XX SOUTH EXIT CLOSED	DETOUR X MILE	ROUGH ROAD XXXX FT
VARIOUS LANES CLOSED	EXIT XXX CLOSED X MILE	ROADWORK PAST SH XXXX	ROADWORK NEXT FRI-SUN
EXIT CLOSED	RIGHT LN TO BE CLOSED	BUMP XXXX FT	US XXX EXIT X MILES
MALL DRIVEWAY CLOSED	X LANES CLOSED TUE - FRI	TRAFFIC SIGNAL XXXX FT	LANES SHIFT X
XXXXXXXX BLVD CLOSED	¥ LANES SHIFT in Phase	1 must be used wit	h STAY IN LANE in Phas

Other Co	ondition List
ROADWORK XXX FT	ROAD REPAIRS XXXX FT
FLAGGER XXXX FT	LANE NARROWS XXXX FT
RIGHT LN NARROWS XXXX FT	TWO-WAY TRAFFIC XX MILE
MERGING TRAFFIC XXXX FT	CONST TRAFFIC XXX FT
LOOSE GRAVEL XXXX FT	UNEVEN LANES XXXX FT
DETOUR X MILE	ROUGH ROAD XXXX FT
ROADWORK PAST SH XXXX	ROADWORK NEXT FRI-SUN
BUMP XXXX FT	US XXX EXIT X MILES
TRAFFIC SIGNAL XXXX FT	L ANE S SHIFT

Action to Take/Effect on Travel List MERGE FORM RIGHT X LINES RIGHT DETOUR USE XXXXX NEXT RD EXIT X EXITS USE USE EXIT EXIT XXX I-XX NORTH STAY ON USE US XXX I-XX F SOUTH TO I-XX N TRUCKS WATCH USE FOR US XXX N TRUCKS WATCH EXPECT FOR DELAYS TRUCKS PREPARE EXPECT DELAYS ТΟ STOP REDUCE END SPEED SHOULDER XXX FT USE WATCH USE OTHER FOR ROUTES WORKERS STAY ĪΝ LANE

APPLICATION GUIDELINES

- 1. Only 1 or 2 phases are to be used on a PCMS. 2. The 1st phase (or both) should be selected from the
- "Road/Lane/Ramp Closure List" and the "Other Condition List".
- 3. A 2nd phase can be selected from the "Action to Take/Effect on Travel, Location, General Warning, or Advance Notice Phase Lists".
- 4. A Location Phase is necessary only if a distance or location is not included in the first phase selected.
- 5. If two PCMS are used in sequence, they must be separated by a minimum of 1000 ft. Each PCMS shall be limited to two phases, and should be understandable by themselves.
- 6. For advance notice, when the current date is within seven days of the actual work date, calendar days should be replaced with days of the week. Advance notification should typically be for no more than one week prior to the work.

WORDING ALTERNATIVES

- 1. The words RIGHT, LEFT and ALL can be interchanged as appropriate.
- appropriate.
- be interchanged as appropriate.
- 4. Highway names and numbers replaced as appropriate.
- 5. ROAD, HIGHWAY and FREEWAY can be interchanged as needed.
- 6. AHEAD may be used instead of distances if necessary. 7. FT and MI. MILE and MILES interchanged as appropriate.
- 8. AT. BEFORE and PAST interchanged as needed.
- 9. Distances or AHEAD can be eliminated from the message if a
- location phase is used.

PCMS SIGNS WITHIN THE R.O.W. SHALL BE BEHIND GUARDRAIL OR CONCRETE BARRIER OR SHALL HAVE A MINIMUM OF FOUR (4) PLASTIC DRUMS PLACED PERPENDICULAR TO TRAFFIC ON THE UPSTREAM SIDE OF THE PCMS, WHEN EXPOSED TO ONE DIRECTION OF TRAFFIC. WHEN EXPOSED TO TWO WAY TRAFFIC. THE FOUR DRUMS SHOULD BE PLACED WITH ONE DRUM AT EACH OF THE FOUR CORNERS OF THE UNIT.

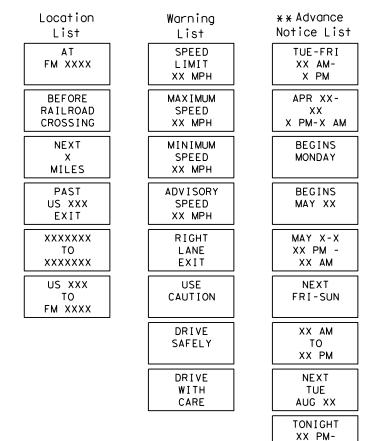
FULL MATRIX PCMS SIGNS

- 1. When Full Matrix PCMS signs are used, the character height and legibility/visibility requirements shall be maintained as listed in Note 15 under "PORTABLE CHANGEABLE MESSAGE SIGNS" above.
- 2. When symbol signs, such as the "Flagger Symbol" (CW20-7) are represented graphically on the Full Matrix PCMS sign and, with the approval of the Engineer, it shall maintain the legibility/visibility requirement listed above
- When symbol signs are represented graphically on the Full Matrix PCMS, they shall only supplement the use of the static sign represented, and shall not substitute for, or replace that sign.
- 4. A full matrix PCMS may be used to simulate a flashing arrow board provided it meets the visibility, flash rate and dimming requirements on BC(7), for the some size arrow.

DATE:

designation # IH-number, US-number, SH-number, FM-number

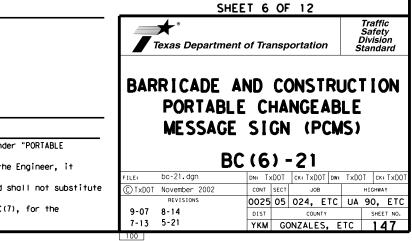
Phase 2: Possible Component Lists

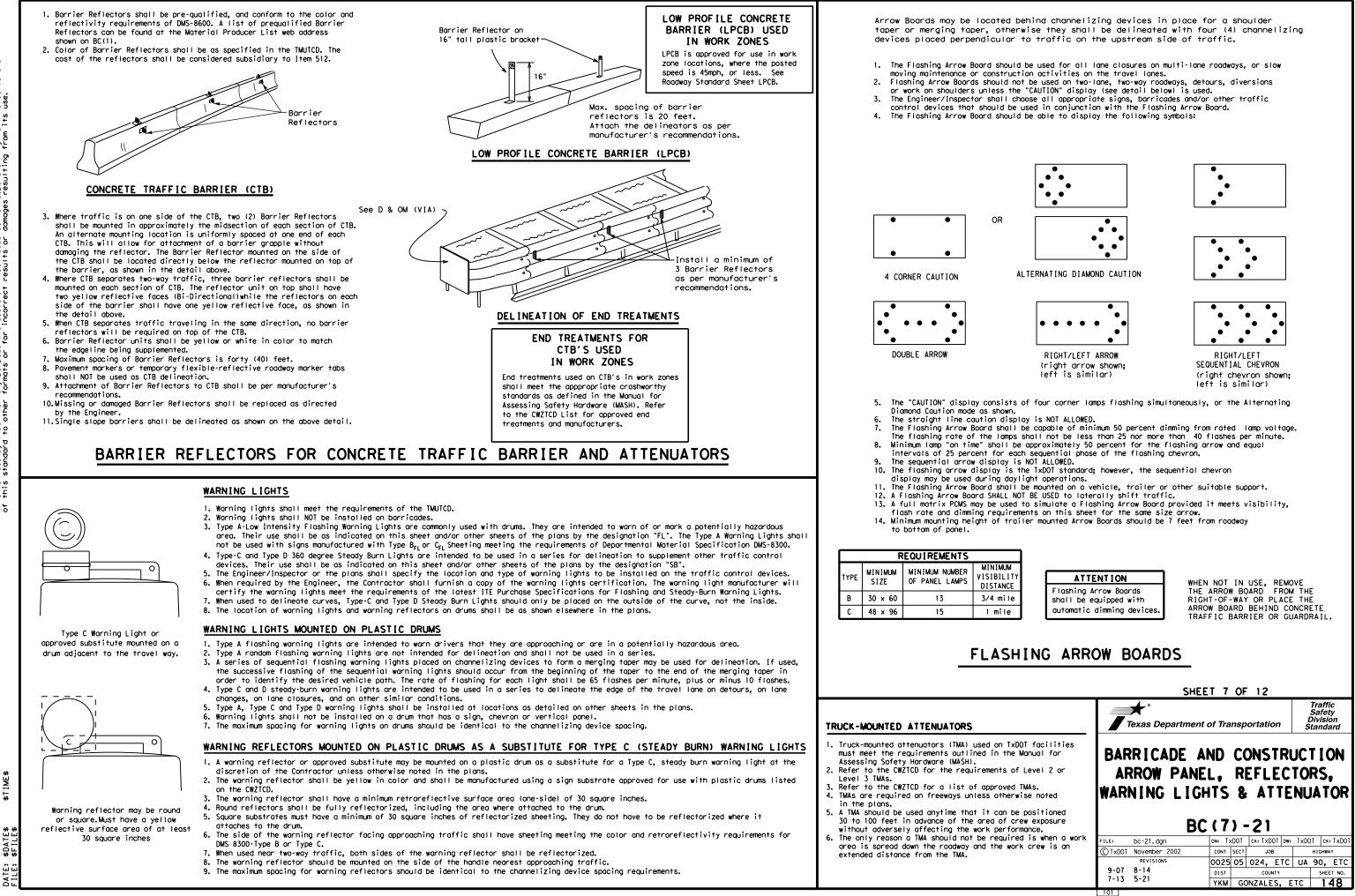


* * See Application Guidelines Note 6.

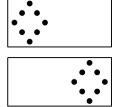
XX AM

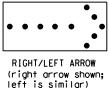
2. Roadway designations IH, US, SH, FM and LP can be interchanged as EAST, WEST, NORTH and SOUTH (or abbreviations E, W, N and S) can





\$DATE\$











GENERAL NOTES

- 1. For long term stationary work zones on freeways, drums shall be used as the primary channelizing device.
- 2. For intermediate term stationary work zones on freeways, drums should be used as the primary channelizing device but may be replaced in tangent sections by vertical panels, or 42" two-piece cones. In tangent sections, one-piece cones may be used with the approval of the Engineer but only if personnel are present on the project at all times to maintain the cones in proper position and location.
- 3. For short term stationary work zones on freeways, drums are the preferred channelizing device but may be replaced in tapers, transitions and tangent sections by vertical panels, two-piece cones or one-piece cones as approved by the Engineer.
- 4. Drums and all related items shall comply with the requirements of the current version of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) and the "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
- 5. Drums, bases, and related materials shall exhibit good workmanship and shall be free from objectionable marks or defects that would adversely affect their appearance or serviceability.
- 6. The Contractor shall have a maximum of 24 hours to replace any plastic drums identified for replacement by the Engineer/Inspector. The replacement device must be an approved device.

GENERAL DESIGN REQUIREMENTS

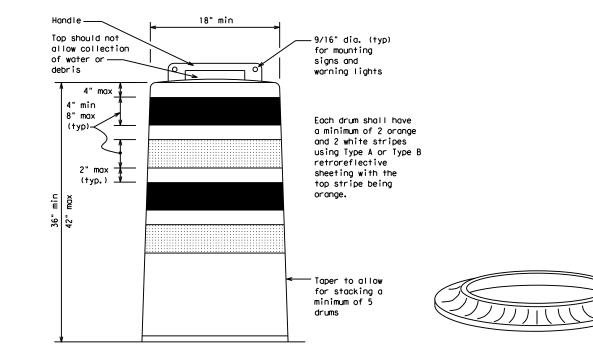
- Pre-gualified plastic drums shall meet the following requirements:
- 1. Plastic drums shall be a two-piece design; the "body" of the drum shall be the top portion and the "base" shall be the bottom.
- 2. The body and base shall lock together in such a manner that the body separates from the base when impacted by a vehicle traveling at a speed of 20 MPH or greater but prevents accidental separation due to normal handling and/or air turbulence created by passing vehicles.
- 3. Plastic drums shall be constructed of lightweight flexible, and deformable materials. The Contractor shall NOT use metal drums or single piece plastic drums as channelization devices or sign supports.
- 4. Drums shall present a profile that is a minimum of 18 inches in width at the 36 inch height when viewed from any direction. The height of drum unit (body installed on base) shall be a minimum of 36 inches and a maximum of 42 inches.
- 5. The top of the drum shall have a built-in handle for easy pickup and shall be designed to drain water and not collect debris. The handle shall have a minimum of two widely spaced 9/16 inch diameter holes to allow attachment of a warning light, warning reflector unit or approved compliant sign.
- 6. The exterior of the drum body shall have a minimum of four alternating orange and white retroreflective circumferential stripes not less than 4 inches nor greater than 8 inches in width. Any non-reflectorized space between any two adjacent stripes shall not exceed 2 inches in width.
- 7. Bases shall have a maximum width of 36 inches, a maximum height of 4 inches, and a minimum of two footholds of sufficient size to allow base to be held down while separating the drum body from the base.
- 8. Plastic drums shall be constructed of ultra-violet stabilized, orange, high-density polyethylene (HDPE) or other approved material.
- 9. Drum body shall have a maximum unballasted weight of 11 lbs.
- 10. Drum and base shall be marked with manufacturer's name and model number.

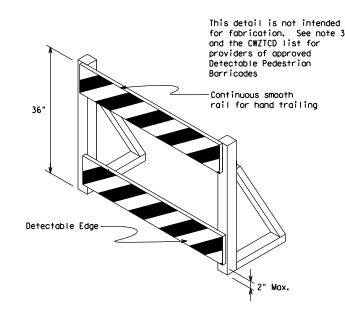
RETROREFLECTIVE SHEETING

- 1. The stripes used on drums shall be constructed of sheeting meeting the color and retroreflectivity requirements of Departmental Materials Specification DMS-8300, "Sign Face Materials." Type A or Type B reflective sheeting shall be supplied unless otherwise specified in the plans.
- 2. The sheeting shall be suitable for use on and shall adhere to the drum surface such that, upon vehicular impact, the sheeting shall remain adhered in-place and exhibit no delaminating, cracking, or loss of retroreflectivity other than that loss due to abrasion of the sheeting surface.

BALLAST

- 1. Unballasted bases shall be large enough to hold up to 50 lbs. of sand. This base, when filled with the ballast material, should weigh between 35 lbs (minimum) and 50 lbs (maximum). The ballast may be sand in one to three sandbags separate from the base, sand in a sand-filled plastic base, or other ballasting devices as approved by the Engineer. Stacking of sandbags will be allowed, however height of sandbags above pavement surface may not exceed 12 inches.
- 2. Bases with built-in ballast shall weigh between 40 lbs. and 50 lbs. Built-in ballast can be constructed of an integral crumb rubber base or a solid rubber base.
- Recycled truck tire sidewalls may be used for ballast on drums approved for this type of ballast on the CWZTCD list.
- 4. The ballast shall not be heavy objects, water, or any material that would become hazardous to motorists, pedestrians, or workers when the drum is struck by a vehicle.
- 5. When used in regions susceptible to freezing, drums shall have drainage holes in the bottoms so that water will not collect and freeze becoming a hazard when struck by a vehicle.
- 6. Ballast shall not be placed on top of drums.
- 7. Adhesives may be used to secure base of drums to pavement.





DETECTABLE PEDESTRIAN BARRICADES

- 1. When existing pedestrian facilities are disrupted, closed, or relocated in a TTC zone, the temporary facilities shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility. Refer to WZ(BTS-2) for Pedestrian Control requirements for Sidewalk Diversions, Sidewalk Detours and Crosswalk Closures. 2. Where pedestrians with visual disabilities normally use the
- closed sidewalk, a Detectable Pedestrian Barricade shall be placed across the full width of the closed sidewalk instead of a Type 3 Barricade.
- 3. Detectable pedestrian barricades similar to the one pictured above, longitudinal channelizing devices, some concrete barriers, and wood or chain link fencing with a continuous detectable edging can satisfactorily delineate a pedestrian
- 4. Tape, rope, or plastic chain strung between devices are not detectable, do not comply with the design standards in the "Americans with Disabilities Act Accessibility Guidelines (ADAAG)" and should not be used as a control for pedestrian movements.
- 5, Warning lights shall not be attached to detectable pedestrian barricades.
- 6. Detectable pedestrian barricades should use 8" nominal barricade rails as shown on BC(10) provided that the top rail provides a smooth continuous rail suitable for hand trailing with no splinters, burrs, or sharp edges.

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(Maximum Sign Dimension)

Chevron CW1-8, Opposing Traffic Lane

Divider, Driveway sign D70a, Keep Right

R4 series or other signs as approved

by Engineer



12" x 24" Vertical Panel mount with diagonals sloping down towards travel way

Plywood, Aluminum or Metal sign substrates shall NOT be used on plastic drums

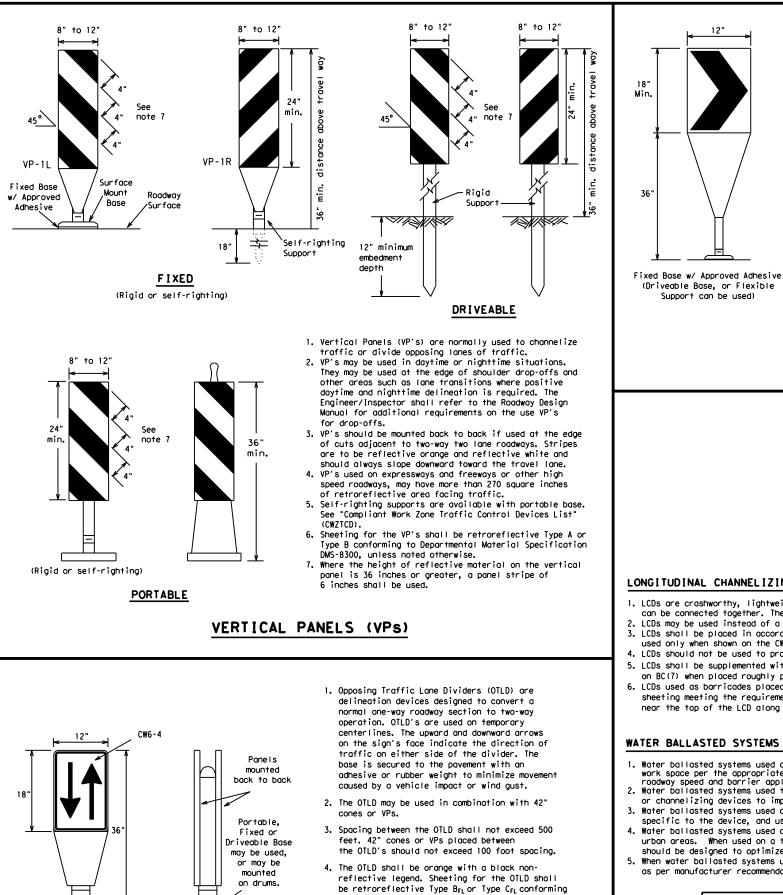
See Ballast

Note 3

SIGNS, CHEVRONS, AND VERTICAL PANELS MOUNTED ON PLASTIC DRUMS

- 1. Signs used on plastic drums shall be manufactured using substrates listed on the CWZTCD.
- 2. Chevrons and other work zone signs with an orange background shall be manufactured with Type B_{FL} or Type C_{FL} Orange sheeting meeting the color and retroreflectivity requirements of DMS-8300, "Sign Face Material," unless otherwise specified in the plans.
- 3. Vertical Panels shall be manufactured with orange and white sheeting meeting the requirements of DMS-8300 Type A or Type B. Diagonal stripes on Vertical Panels shall slope down toward the intended traveled lane.
- 4. Other sign messages (text or symbolic) may be used as approved by the Engineer. Sign dimensions shall not exceed 18 inches in width or 24 inches in height, except for the R9 series signs discussed in note 8 below.
- 5. Signs shall be installed using a 1/2 inch bolt (nominal) and nut, two washers, and one locking washer for each connection.
- 6. Mounting bolts and nuts shall be fully engaged and adequately torqued. Bolts should not extend more than 1/2 inch beyond nuts.
- 7. Chevrons may be placed on drums on the outside of curves, on merging tapers or on shifting tapers. When used in these locations, they may be placed on every drum or spaced not more than on every third drum. A minimum of three (3) should be used at each location called for in the plans.
- 8. R9-9, R9-10, R9-11 and R9-11a Sidewalk Closed signs which are 24 inches wide may be mounted on plastic drums, with approval of the Engineer.

SH	EET 8 (OF 12					
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CHANNEL	BARRICADE AND CONSTRUCTIO CHANNELIZING DEVICES						
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If used to channelize pedestrians, longitudinal channelizing devices or water ballasted systems must have a continuous detectable bottom for users of long canes and the top of the unit shall not be less than 32 inches in height.

OPPOSING TRAFFIC LANE DIVIDERS (OTLD)

to Departmental Material Specification DMS-8300,

unless noted otherwise. The legend shall meet

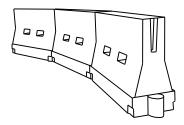
the requirements of DMS-8300.

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HOLLOW OR WATER BALLASTED SYSTEMS USED AS LONGITUDINAL CHANNELIZING DEVICES OR BARRIERS

- 1. The chevron shall be a vertical rectangle with a minimum size of 12 by 18 inches.
- 2. Chevrons are intended to give notice of a sharp change of alignment with the direction of travel and provide additional emphasis and guidance for vehicle operators with regard to changes in horizontal alignment of the roadway.
- 3. Chevrons, when used, shall be erected on the out side of a sharp curve or turn, or on the far side of an intersection. They shall be in line with and at right angles to approaching traffic. Spacing should be such that the motorist always has three in view, until the change in alignment eliminates its need.
- 4. To be effective, the chevron should be visible for at least 500 feet.
- 5. Chevrons shall be orange with a black nonreflective legend. Sheeting for the chevron shall be retroreflective Type B_{FL} or Type C_{FL} conforming to Departmental Material Specification DMS-8300, unless noted otherwise. The legend shall meet the requirements of DMS-8300.
- 6. For Long Term Stationary use on tapers or transitions on freeways and divided highways, self-righting chevrons may be used to supplement plastic drums but not to replace plastic drums.

CHEVRONS



LONGITUDINAL CHANNELIZING DEVICES (LCD)

- 1. LCDs are crashworthy, lightweight, deformable devices that are highly visible, have good target value and can be connected together. They are not designed to contain or redirect a vehicle on impact.
- 2. LCDs may be used instead of a line of cones or drums. 3. LCDs shall be placed in accordance to application and installation requirements specific to the device, and used only when shown on the CWZTCD list.
- 4. LCDs should not be used to provide positive protection for obstacles, pedestrians or workers.
- 5. LCDs shall be supplemented with retroreflective delineation as required for temporary barriers on BC(7) when placed roughly parallel to the travel lanes.
- 6. LCDs used as barricades placed perpendicular to traffic should have at least one row of reflective sheeting meeting the requirements for barricade rails as shown on BC(10). Place reflective sheeting near the top of the LCD along the full length of the device.

WATER BALLASTED SYSTEMS USED AS BARRIERS

- Water ballasted systems used as barriers shall not be used solely to channelize road users, but also to protect the work space per the appropriate Manual for Assessing Safety Hardware (MASH) crashworthiness requirements based on roadway speed and barrier application.
- 2. Water ballosted systems used to channelize vehicular traffic shall be supplemented with retroreflective delineation or channelizing devices to improve daytime/nighttime visibility. They may also be supplemented with pavement markings.
- 3. Water ballasted systems used as barriers shall be placed in accordance to application and installation requirements specific to the device, and used only when shown on the CWZTCD list.
- Water ballasted systems used as barriers should not be used for a merging taper except in low speed (less than 45 MPH urban areas. When used on a taper in a low speed urban area, the taper shall be delineated and the taper length should be designed to optimize road user operations considering the available geometric conditions.
- When water ballasted systems used as barriers have blunt ends exposed to traffic, they should be attenuated as per manufacturer recommendations or flared to a point outside the clear zone.

GENERAL NOTES

- 1. Work Zone channelizing devices illustrated on this sheet may be installed in close proximity to traffic and are suitable for use on high or low speed roadways. The Engineer/Inspector shall ensure that spacing and placement is uniform and in accordance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- 2. Channelizing devices shown on this sheet may have a driveable, fixed or portable base. The requirement for self-righting channelizing devices must be specified in the General Notes or other plan sheets.
- 3. Channelizing devices on self-righting supports should be used in work zone areas where channelizing devices are frequently impacted by errant vehicles or vehicle related wind gusts making alignment of the channelizing devices difficult to maintain. Locations of these devices shall be detailed elsewhere in the plans. These devices shall conform to the TMUTCD and the "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
- 4. The Contractor shall maintain devices in a clean condition and replace damaged, nonreflective, faded, or broken devices and bases as required by the Engineer/Inspector. The Contractor shall be required to maintain proper device spacing and alignment.
- 5. Portable bases shall be fabricated from virgin and/or recycled rubber. The portable bases shall weigh a minimum of 30 lbs.
- Pavement surfaces shall be prepared in a manner that ensures proper bonding between the adhesives, the fixed mount bases and the pavement surface. Adhesives shall be prepared and applied according to the manufacturer's recommendations.
- 7. The installation and removal of channelizing devices shall not cause detrimental effects to the final pavement surfaces, including pavement surface discoloration or surface integrity. Driveable bases shall not be permitted on final pavement surfaces. The Engineer/Inspector shall approve all application and removal procedures of fixed bases.

Posted Speed	Formula	Minimum Desirable Taper Lengths X X			Suggested Maximum Spacing of Channelizing Devices			
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30		150'	165'	180'	30′	60′		
35	$L = \frac{WS^2}{60}$	205'	225'	245'	35′	70′		
40	60	265'	295′	320'	40′	80′		
45		450′	495′	540′	45′	90′		
50		500'	550'	600ʻ	50'	100'		
55	L=WS	550'	605′	660 <i>'</i>	55 <i>'</i>	110′		
60	L-#3	600'	660 <i>'</i>	720′	60 <i>'</i>	120'		
65		650′	715′	780'	65 <i>'</i>	130'		
70		700'	770'	840′	70′	140'		
75		750'	825′	900,	75'	150'		
80		800'	880′	960'	80 <i>'</i>	160′		

SUGGESTED MAXIMUM SPACING OF CHANNELIZING DEVICES AND MINIMUM DESIRABLE TAPER LENGTHS

XX Taper lengths have been rounded off.

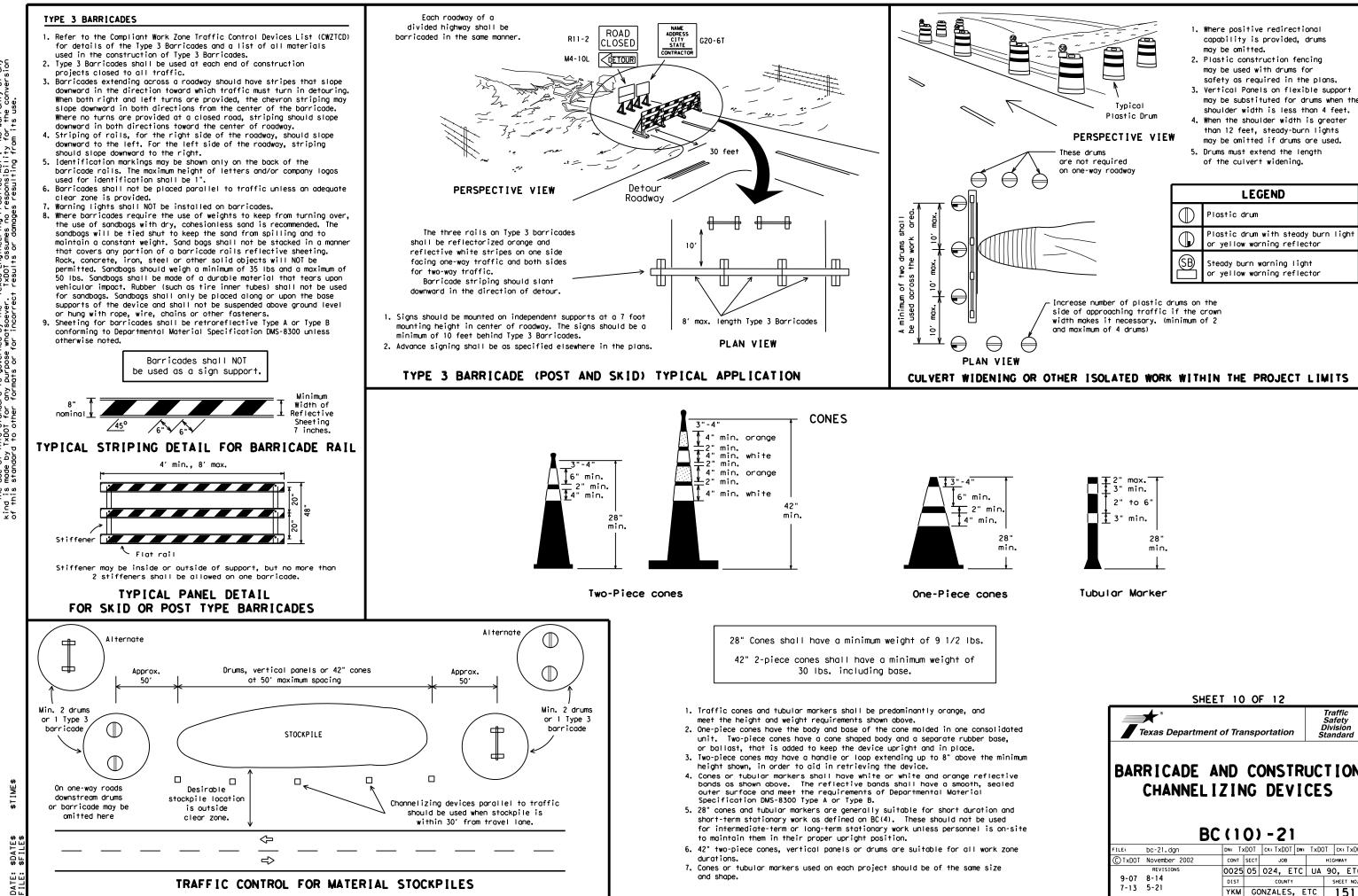
S=Posted Speed (MPH)

L=Length of Taper (FT.) W=Width of Offset (FT.)

SHEET 9 OF 12 Traffic Safety Division Standard **st** Texas Department of Transportation

BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC (9) - 21										
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WORK ZONE PAVEMENT MARKINGS

GENERAL

- The Contractor shall be responsible for maintaining work zone and existing pavement markings, in accordance with the standard specifications and special provisions, on all roadways open to traffic within the CSJ limits unless otherwise stated in the plans.
- 2. Color, patterns and dimensions shall be in conformance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- 3. Additional supplemental pavement marking details may be found in the plans or specifications.
- Pavement markings shall be installed in accordance with the TMUTCD and as shown on the plans.
- 5. When short term markings are required on the plans, short term markings shall conform with the TMUICD, the plans and details as shown on the Standard Plan Sheet WZ (STPM).
- 6. When standard pavement markings are not in place and the roadway is opened to traffic, DO NOT PASS signs shall be erected to mark the beginning of the sections where passing is prohibited and PASS WITH CARE signs at the beginning of sections where passing is permitted.
- All work zone pavement markings shall be installed in accordance with Item 662, "Work Zone Pavement Markings."

RAISED PAVEMENT MARKERS

- 1. Raised pavement markers are to be placed according to the patterns on BC(12).
- All raised pavement markers used for work zone markings shall meet the requirements of Item 672, "RAISED PAVEMENT MARKERS" and Departmental Material Specification DMS-4200 or DMS-4300.

PREFABRICATED PAVEMENT MARKINGS

- Removable prefabricated pavement markings shall meet the requirements of DMS-8241.
- Non-removable prefabricated pavement markings (foil back) shall meet the requirements of DMS-8240.

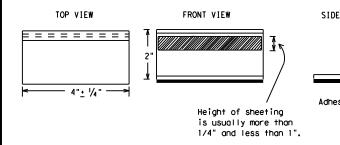
MAINTAINING WORK ZONE PAVEMENT MARKINGS

- The Contractor will be responsible for maintaining work zone pavement markings within the work limits.
- Work zone pavement markings shall be inspected in accordance with the frequency and reporting requirements of work zone traffic control device inspections as required by Form 599.
- 3. The markings should provide a visible reference for a minimum distance of 300 feet during normal daylight hours and 160 feet when illuminated by automobile low-beam headlights at night, unless sight distance is restricted by roadway geometrics.
- Markings failing to meet this criteria within the first 30 days after placement shall be replaced at the expense of the Contractor as per Specification Item 662.

REMOVAL OF PAVEMENT MARKINGS

- Pavement markings that are no longer applicable, could create confusion or direct a motorist toward or into the closed portion of the roadway shall be removed or obliterated before the roadway is opened to traffic.
- The above shall not apply to detours in place for less than three days, where flaggers and/or sufficient channelizing devices are used in lieu of markings to outline the detour route.
- Pavement markings shall be removed to the fullest extent possible, so as not to leave a discernable marking. This shall be by any method approved by TxDOT Specification Item 677 for "Eliminating Existing Pavement Markings and Markers".
- 4. The removal of pavement markings may require resurfacing or seal coating portions of the roadway as described in Item 677.
- Subject to the approval of the Engineer, any method that proves to be successful on a particular type pavement may be used.
- 6. Blast cleaning may be used but will not be required unless specifically shown in the plans.
- 7. Over-painting of the markings SHALL NOT BE permitted.
- 8. Removal of raised pavement markers shall be as directed by the Engineer.
- Removal of existing pavement markings and markers will be paid for directly in accordance with Item 677, "ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS," unless otherwise stated in the plans.
- 10. Black-out marking tape may be used to cover conflicting existing markings for periods less than two weeks when approved by the Engineer.

Temporary Flexible-Reflective Roadway Marker Tabs



STAPLES OR NAILS SHALL NOT BE USED TO SECU TEMPORARY FLEXIBLE-REFLECTIVE ROADWAY MARK TABS TO THE PAVEMENT SURFACE

- Temporary flexible-reflective roadway marker tabs used as guiden shall meet the requirements of DMS-8242.
- Tabs detailed on this sheet are to be inspected and accepted by Engineer or designated representative. Sampling and testing is r normally required, however at the option of the Engineer, either or "B" below may be imposed to assure quality before placement or roadway.
 - A. Select five (5) or more tabs at random from each lot or st and submit to the Construction Division, Materials and Pay Section to determine specification compliance.
 - B. Select five (5) tabs and perform the following test. Affix (5) tabs at 24 inch intervals on an asphaltic pavement in straight line. Using a medium size passenger vehicle or pi run over the markers with the front and rear tires at a sp of 35 to 40 miles per hour, four (4) times in each directi more than one (1) out of the five (5) reflective surfaces be lost or displaced as a result of this test.
- 3. Small design variances may be noted between tab manufacturers.
- 4. See Standard Sheet WZ(STPM) for tab placement on new pavements. Standard Sheet TCP(7-1) for tab placement on seal coat work.

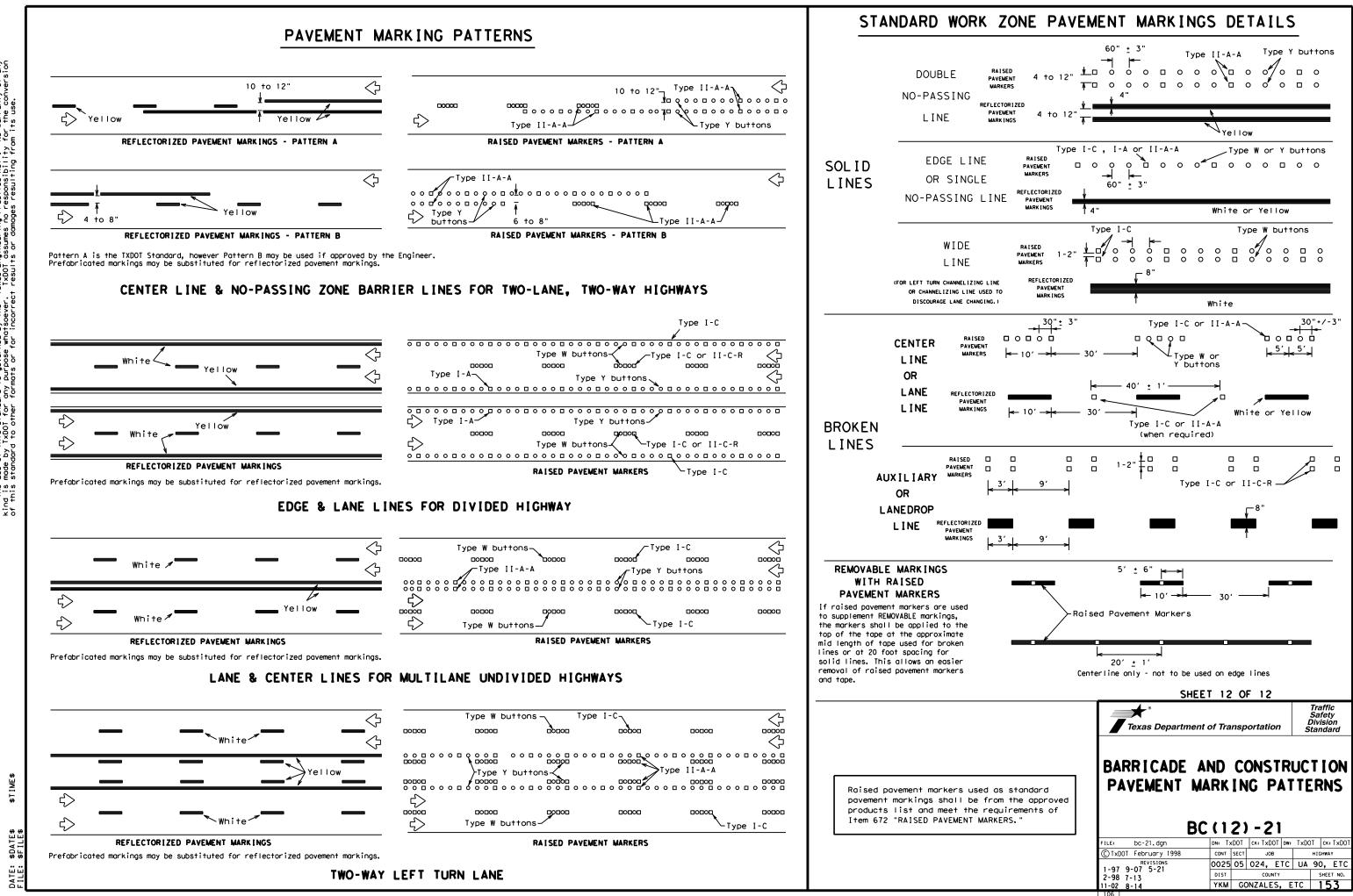
RAISED PAVEMENT MARKERS USED AS GUIDEMARK

- Raised pavement markers used as guidemarks shall be from the approduct list, and meet the requirements of DMS-4200.
- All temporary construction raised pavement markers provided on project shall be of the same manufacturer.
- Adhesive for guidemarks shall be bituminous material hot applie butyl rubber pad for all surfaces, or thermoplastic for concresurfaces.

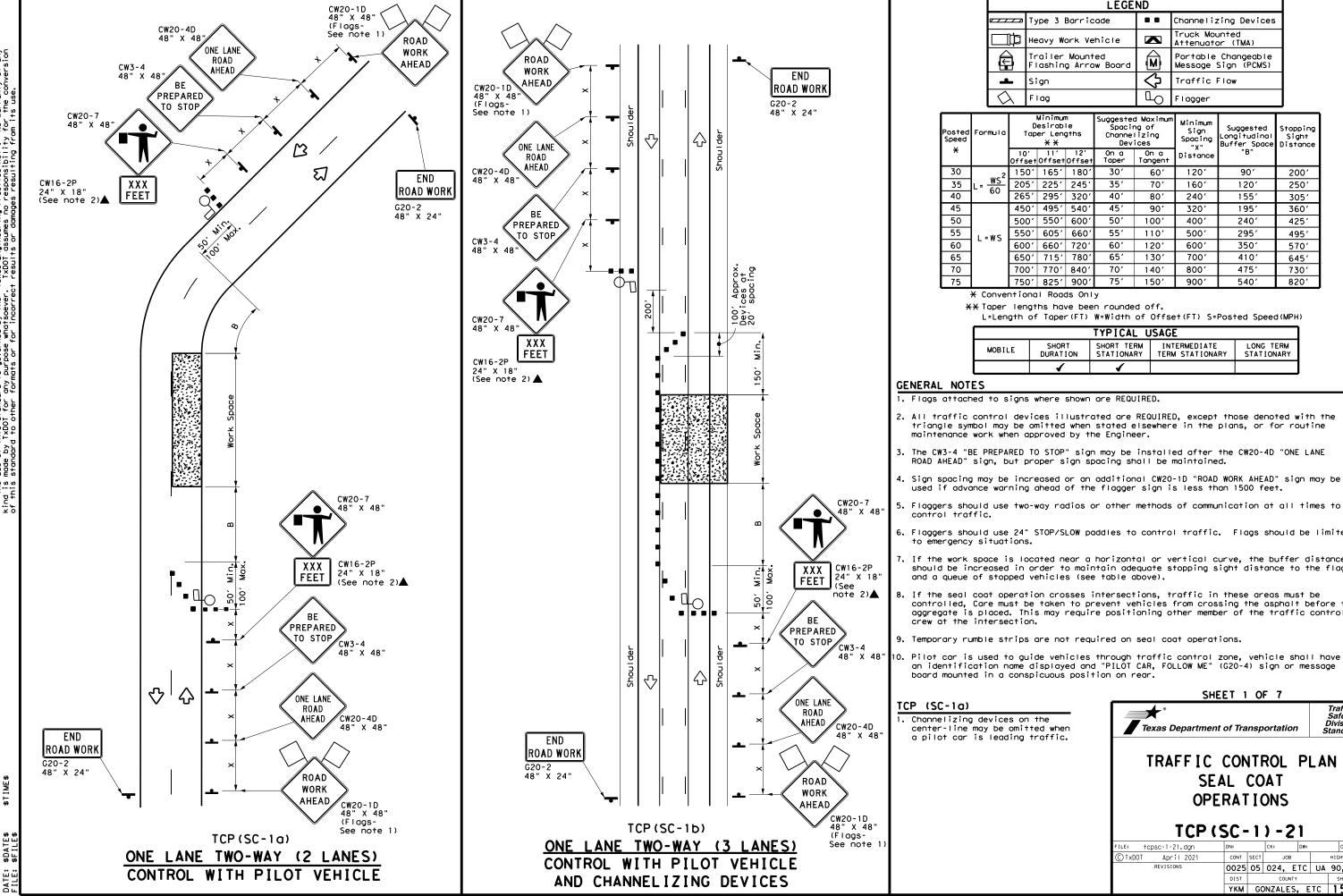
Guidemarks shall be designated as:

YELLOW - (two amber reflective surfaces with yellow body). WHITE - (one silver reflective surface with white body).

If PAFFIC BUTTONS 0.54300 EPOXY AND ADHESIVE FOR PAVEMENT MARKERS 0.56100 BITUMINOUS ADHESIVE FOR PAVEMENT MARKINGS 0.56100 PERMANENT PREFABRICATED PAVEMENT MARKINGS 0.52240 PERMANENT PREFABRICATED PAVEMENT MARKINGS 0.52421 TEMPORARY FLEXIBLE, REFLECTIVE 0.52421 A list of prequalified reflective raised pavement markers, non-reflective traffic buttons, roadway marker tabs and other web address shown on BC(1). Month 1.53 Month 1.54 Month 1.54 <td< th=""><th></th><th></th><th></th></td<>			
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FILE: DC-21, dgn DN: TXDOT CK: TXDOT DW: TXDOT CK: TX	oved	SHEET 11 OF 12 Texas Department of Transportation BARRICADE AND CONSTRUCTION PAVEMENT MARKING BC(111)-21	Safety Division Standard



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a		Minimum Desirable Taper Lengths X X		Desirable Spacing of Channelizing X X Devices		Minimum Sign Spacing "X"	Suggested Longitudinal Buffer Space "B"	Stopping Sight Distance			
	10 Offs		11' Offset	12' Offset	On a Taper	On a Tangent	Distance	В			
2	150	0'	1651	180′	30′	60 <i>'</i>	120'	90'	200'		
_	205	5′	225′	245'	35′	70′	160′	120′	250 <i>'</i>		
	265′		295′	320'	40′	80 <i>'</i>	240'	155′	305′		
	450	0'	495′	540′	45 <i>′</i>	90 <i>'</i>	320'	195′	360′		
50		0'	550'	600'	50'	100′	400′	240′	425′		
	550	0'	605′	660 <i>′</i>	55′	110′	500 <i>'</i>	295 <i>'</i>	495′		
·	600	0,	660 <i>'</i>	720'	60′	120′	600 <i>'</i>	350 <i>'</i>	570'		
	650	0′	715′	780'	65′	130′	700′	410′	645 <i>'</i>		
	700	0'	770'	840′	70'	140′	800′	475′	730′		
	750	0'	8251	900 <i>'</i>	75′	150′	900′	540′	820′		

* Conventional Roads Only

XX Taper lengths have been rounded off.

L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE							
ILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY			
	√	1					

1. Flags attached to signs where shown are REQUIRED.

2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work when approved by the Engineer.

3. The CW3-4 "BE PREPARED TO STOP" sign may be installed after the CW20-4D "ONE LANE ROAD AHEAD" sign, but proper sign spacing shall be maintained.

4. Sign spacing may be increased or an additional CW20-1D "ROAD WORK AHEAD" sign may be used if advance warning ahead of the flagger sign is less than 1500 feet.

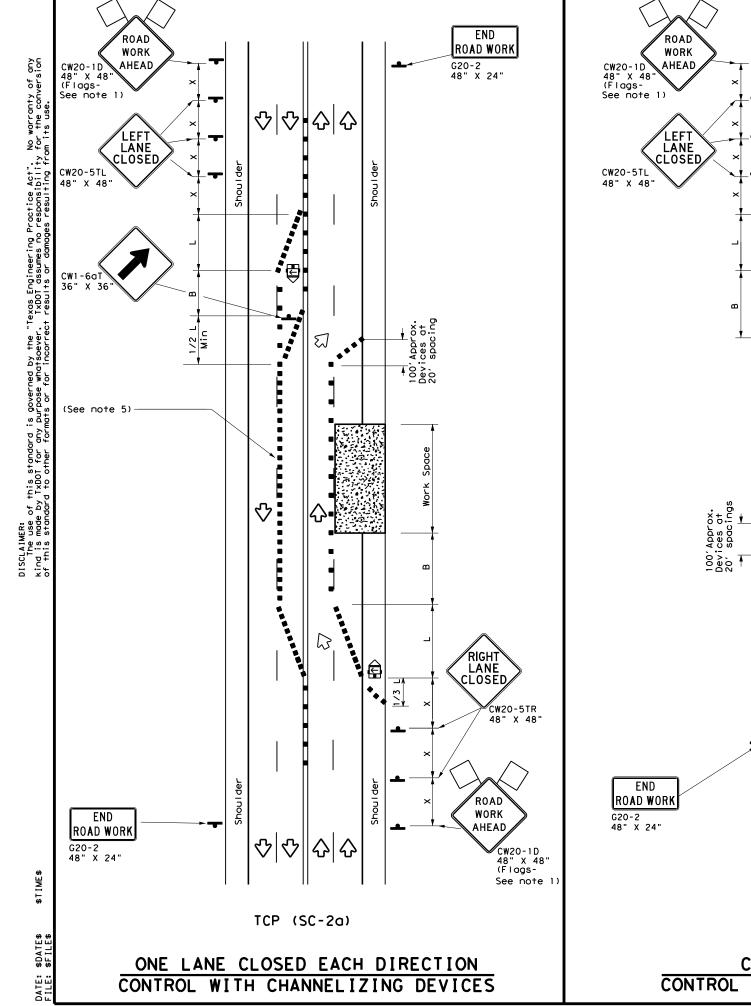
5. Flaggers should use two-way radios or other methods of communication at all times to control traffic.

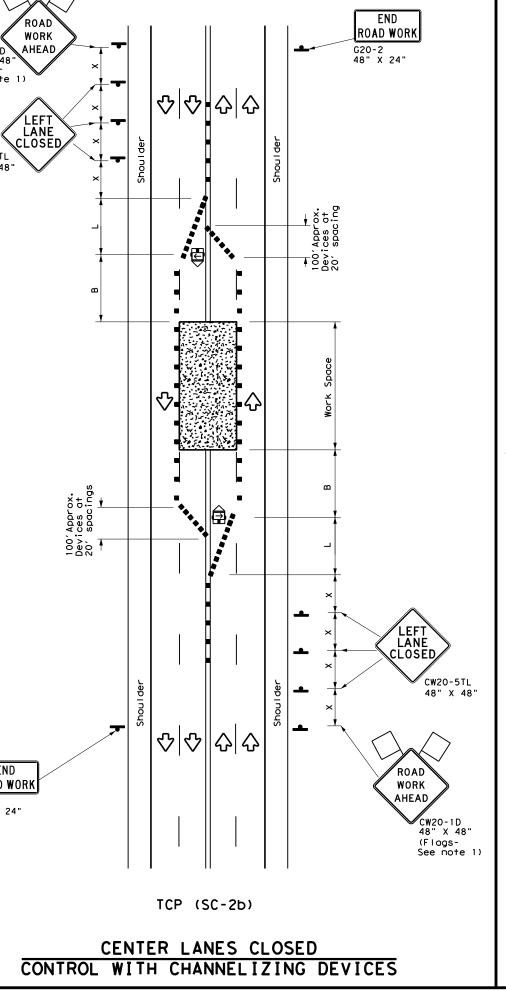
6. Flaggers should use 24" STOP/SLOW paddles to control traffic. Flags should be limited

If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain adequate stopping sight distance to the flagger and a queue of stopped vehicles (see table above).

8. If the seal coat operation crosses intersections, traffic in these areas must be controlled, Care must be taken to prevent vehicles from crossing the asphalt before the aggregate is placed. This may require positioning other member of the traffic control crew at the intersection.

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LEGEND									
~~~~~	Type 3 Barricade		Channelizing Devices						
₿	Heavy Work Vehicle	K	Truck Mounted Attenuator (TMA)						
(U)	Trailer Mounted Flashing Arrow Board	٩	Portable Changeable Message Sign (PCMS)						
•	Sign	$\diamondsuit$	Traffic Flow						
$\langle \rangle$	Flag	Ц	Flagger						

Posted Speed	Formula	Desirable Taper Lengths X X			Spacir Channe		Minimum Sign Spacing "x"	Suggested Longitudinal Buffer Space
*		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"B"
30	<u>ws</u> ²	150'	165'	180'	30′	60′	120'	90'
35	$L = \frac{WS}{60}$	205'	225'	245'	35′	70′	160'	120′
40	60	265′	295′	320'	40′	80′	240'	155′
45		450'	495′	540′	45′	90′	320′	195′
50		500'	550'	600′	50 <i>'</i>	100'	400′	240'
55	L=WS	550'	605′	660'	55 <i>'</i>	110'	500 <i>'</i>	295′
60	L - # J	600′	660′	720'	60′	120'	600 <i>'</i>	350′
65		650′	715′	780′	65′	130'	700′	410'
70		700'	770'	840′	70′	140′	800′	475'
75		750'	825′	900'	75′	150'	900′	540′

* Conventional Roads Only

☆ Taper lengths have been rounded off.

L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE									
MOBILE SHORT SHORT TERM INTERMEDIATE LONG TI DURATION STATIONARY TERM STATIONARY STATION									
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### GENERAL NOTES

1. Flags attached to signs where shown are REQUIRED.

2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.

 The CW20-1D "ROAD WORK AHEAD" sign may be repeated if the visibility of the work zone is less than 1500 feet.

4. If the seal coat operation crosses intersections, traffic in these areas must be controlled, Care must be taken to prevent vehicles from crossing the asphalt before the aggregate is placed. This may require positioning other member of the traffic control crew at the intersection.

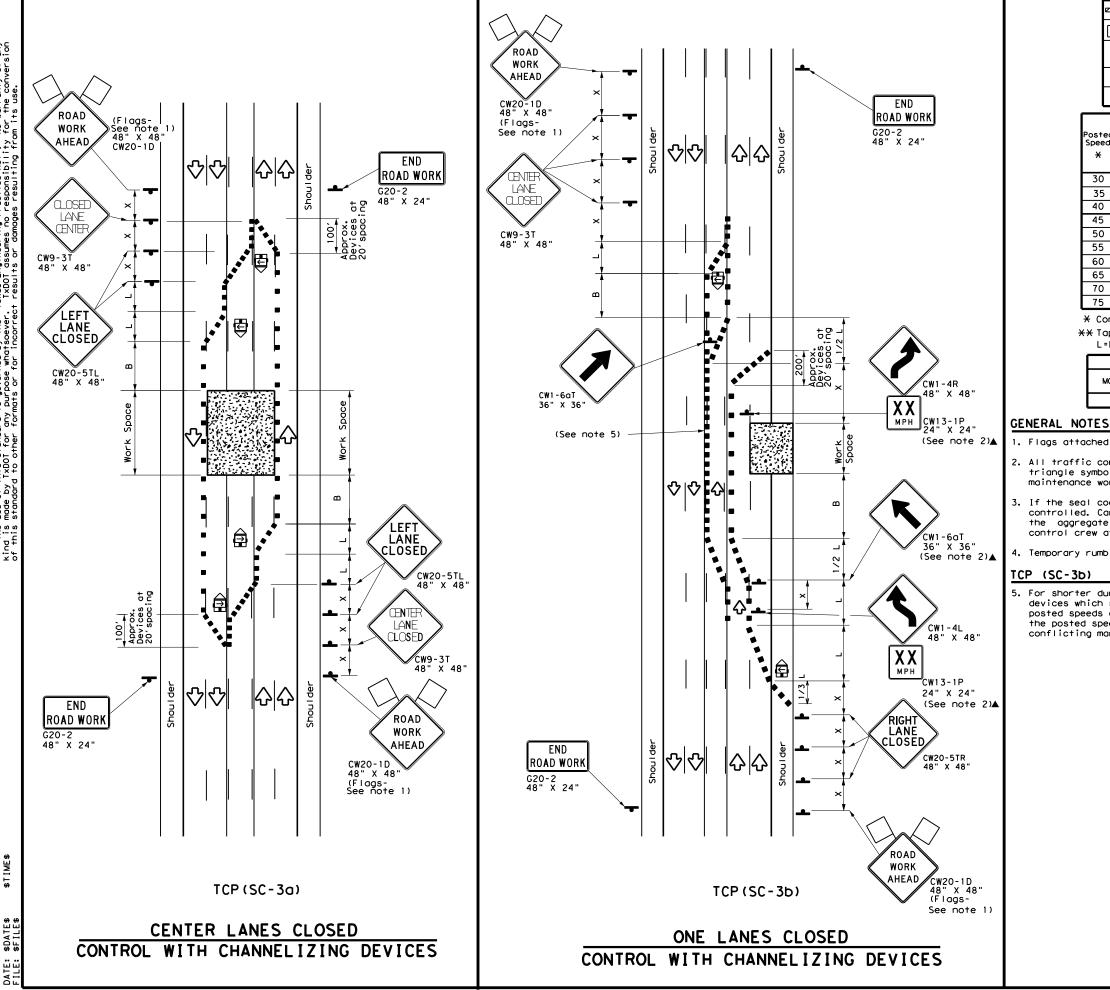
5. Temporary rumble strips are not required on seal coat operations.

#### TCP (SC-2a)

6. Where traffic is directed over a yellow centerline, channelizing devices which separate two-way traffic should be spaced on tapers at 20' or 15' if posted speeds are 35 mph or slower, and for tangent sections, at 1/2(S) where S is the posted speed in mph. This tighter device spacing is intended for the areas of conflicting markings, not the entire work zone.

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TRAFFIC CONTROL PLAN LANE CLOSURES ON MULTILANE CONVENTIONAL ROADS TCP (SC-2)-21									
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	LEGEND											
e		T	pe 3	Barric	ade				Channe	elizing D	evices	
	₽	He	leavy Work Vehicle			A)						
	Ē		railer Mounted Tashing Arrow Board M Portable Changeable Message Sign (PCMS)									
	ŀ	s	ign	Traff				ic Flow				
	$\overline{\nabla}$	Flag LO Flagger										
ed ed			Desirable				gested Maximum Spacing of Channelizing Devices			Minimum Sign Spacing "x"	Suggested Longitudinal Buffer Space	
			10' Offset	11' Offset	12' Offset		)n a aper	Т	On a angent	Distance	"B"	
)		.2	150'	165'	180'		30′		60 <i>'</i>	120'	90'	
5	L = <u>W</u>	2	205'	225'	245'		35′		70'	160′	120	,
)	00	,	265′	295'	320'		40′		80'	240′	155	,
5			450'	495′	540′		45′		90'	320′	195	·
)			500 <i>'</i>	550'	600'		50 <i>'</i>		100'	400′	240	,
5	L = W 3	s	550'	605′	660 <i>ʻ</i>		55′		110'	500 <i>'</i>	295	•
)	] - "3		600 <i>'</i>	660'	720'		60′		120'	600 <i>'</i>	350	,
5			650'	715′	780′		65 <i>'</i>		130′	700'	410	,
)			700'	770'	840′		70'		140'	800 <i>'</i>	475	,
5			750'	8251	900'		75′		150'	900′	540	,

* Conventional Roads Only

osted Speed

×

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35

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50 55

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XX Taper lengths have been rounded off. L=Length of Taper (FT) W=Width of Offset (FT) S=Posted Speed (MPH)

	TYPICAL USAGE										
LE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY							
	1	1									

1. Flags attached to signs where shown are REQUIRED.

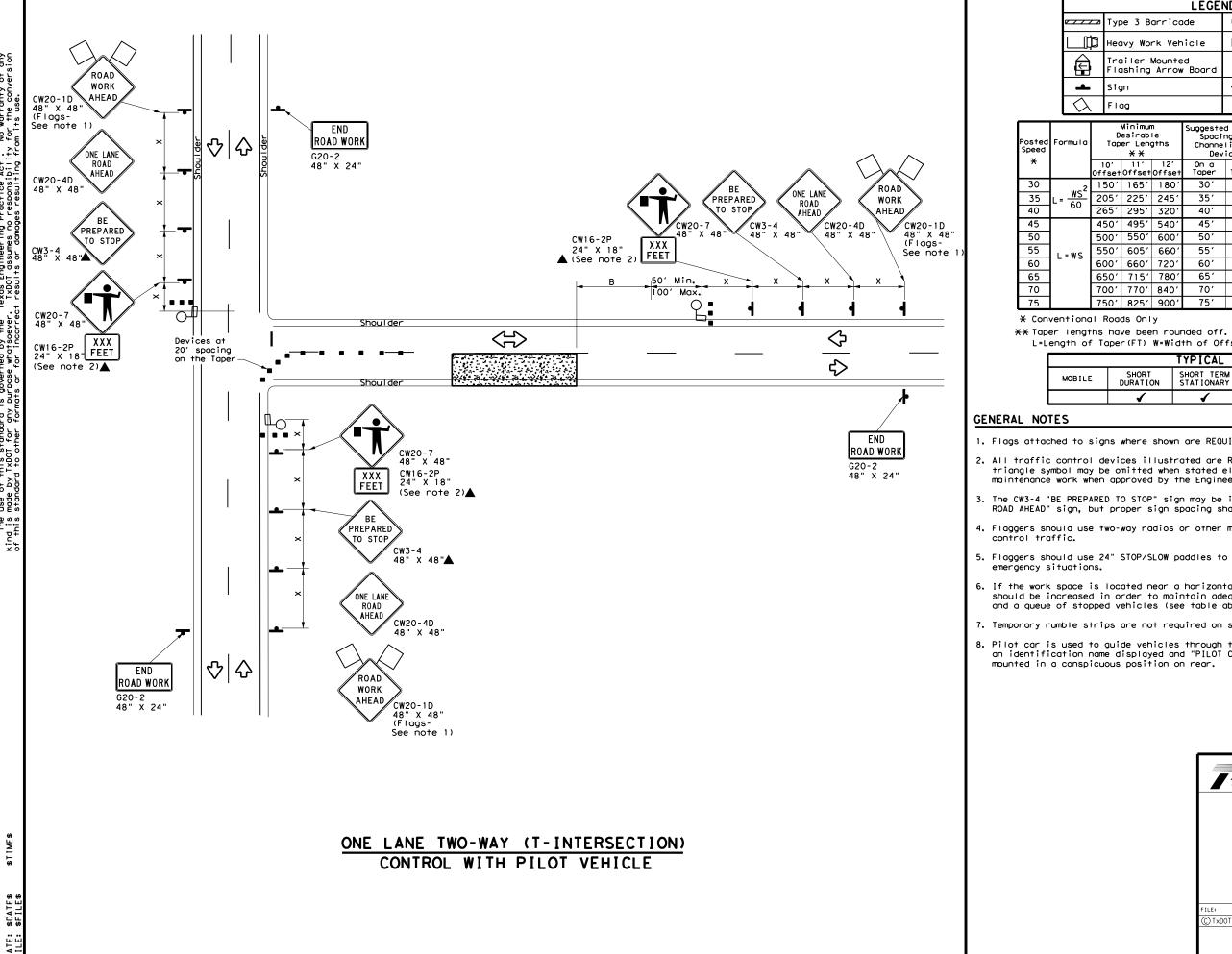
2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work when approved by the Engineer.

3. If the seal coat operation crosses intersections, traffic in these areas must be controlled. Care must be taken to prevent vehicles from crossing the asphalt before the aggregate is placed. This may require positioning other members of the traffic control crew at the intersection.

4. Temporary rumble strips are not required on seal coat operations.

5. For shorter durations where traffic is directed over a yellow centerline, channelizing devices which separate two-way traffic should be spaced on tapers at 20' or 15' if posted speeds are 35 mph or slower, and for tangent sections, at 1/2(S) where S is the posted speed in mph. This tighter devices spacing is intended for the area of conflicting markings, not the entire work zone.

SHEET 3 OF 7										
Traffic Safety Division Standard										
TRAFFIC CONTROL PLAN SEAL COAT OPERATIONS TCP (SC-3)-21										
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	LEGEND											
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ľ	þ	Нес	ivy Wo	rk Ver	licle			ruck Mour ttenuator				
Ì	Trailer Mounted Flashing Arrow Board				M			Changeable ign (PCMS)				
_		Sign 🗘 Traffic Flow]				
λ		FIC	ŋg			٩	F	lagger]			
a		D	Minimum esirab er Leng X X	le	Spacing of			Minimum Sign Spacing "x"	Suggested Longitudinal Buffer Space	Stopping Sight Distance		
	1(Off	0' set	11' Offset	12' Offset	On a Taper	On a Tangent		^ Distance	"B"			
.2	15	50'	165'	180'	30'	60′		120'	90′	200′		
2	20)5'	225'	245'	35'	70'		160′	120′	250′		
<u> </u>	26	55'	295′	320'	40′	80'		240′	155'	305′		
	45	50'	495'	540'	45′	90'		320′	195'	360′		
	50)0ʻ	550'	600'	50'	100'		400′	240'	425′		
5	55	50'	605′	660 <i>'</i>	55′	110'		500 <i>'</i>	295'	495′		
-	60	01	660'	720'	60'	120'		600′	350′	570′		
	65	50'	715′	780′	65 <i>'</i>	130'		700'	410′	645′		
	70	ò,	770'	840 <i>'</i>	70'	140'		800'	475′	730′		
	75	601	825′	900'	75′	150'		900'	540'	820'		

L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

	TYPICAL USAGE										
LE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY							
	1	1									

1. Flags attached to signs where shown are REQUIRED.

2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work when approved by the Engineer.

3. The CW3-4 "BE PREPARED TO STOP" sign may be installed after the CW20-4D "ONE LANE ROAD AHEAD" sign, but proper sign spacing shall be maintained.

4. Flaggers should use two-way radios or other methods of communication at all times to

5. Flaggers should use 24" STOP/SLOW paddles to control traffic. Flags should be limited to

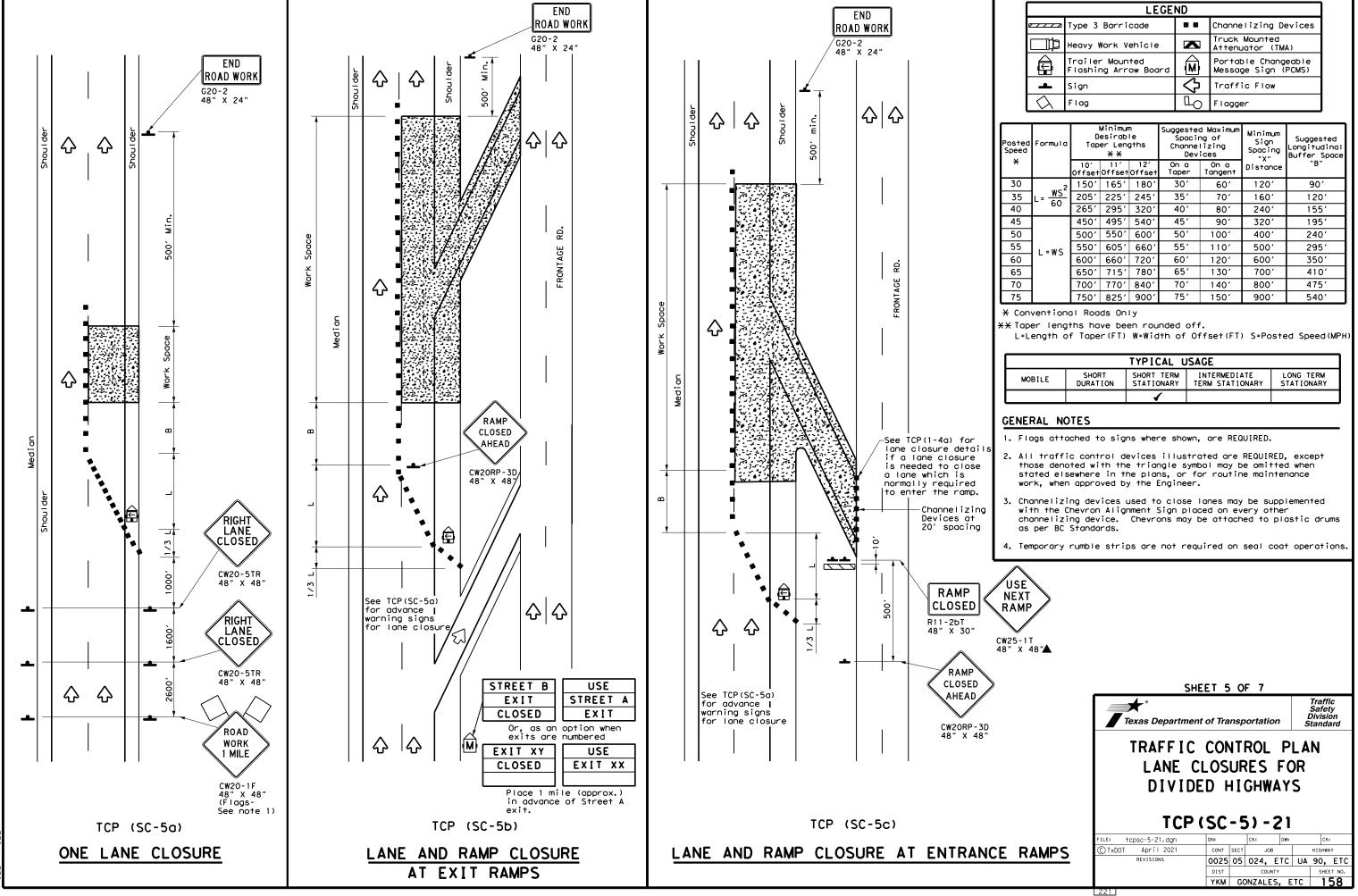
6. If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain adequate stopping sight distance to the flagger and a queue of stopped vehicles (see table above).

7. Temporary rumble strips are not required on seal coat operations.

 Pilot car is used to guide vehicles through traffic control zone, vehicle shall have an identification name displayed and "PILOT CAR, FOLLOW ME" (G20-4) sign or message board mounted in a conspicuous position on rear.

SHEET 4 OF 7										
Traffic Safety Division Standard										
TRAFFIC CONTROL PLAN SEAL COAT OPERATIONS TCP (SC-4)-21										
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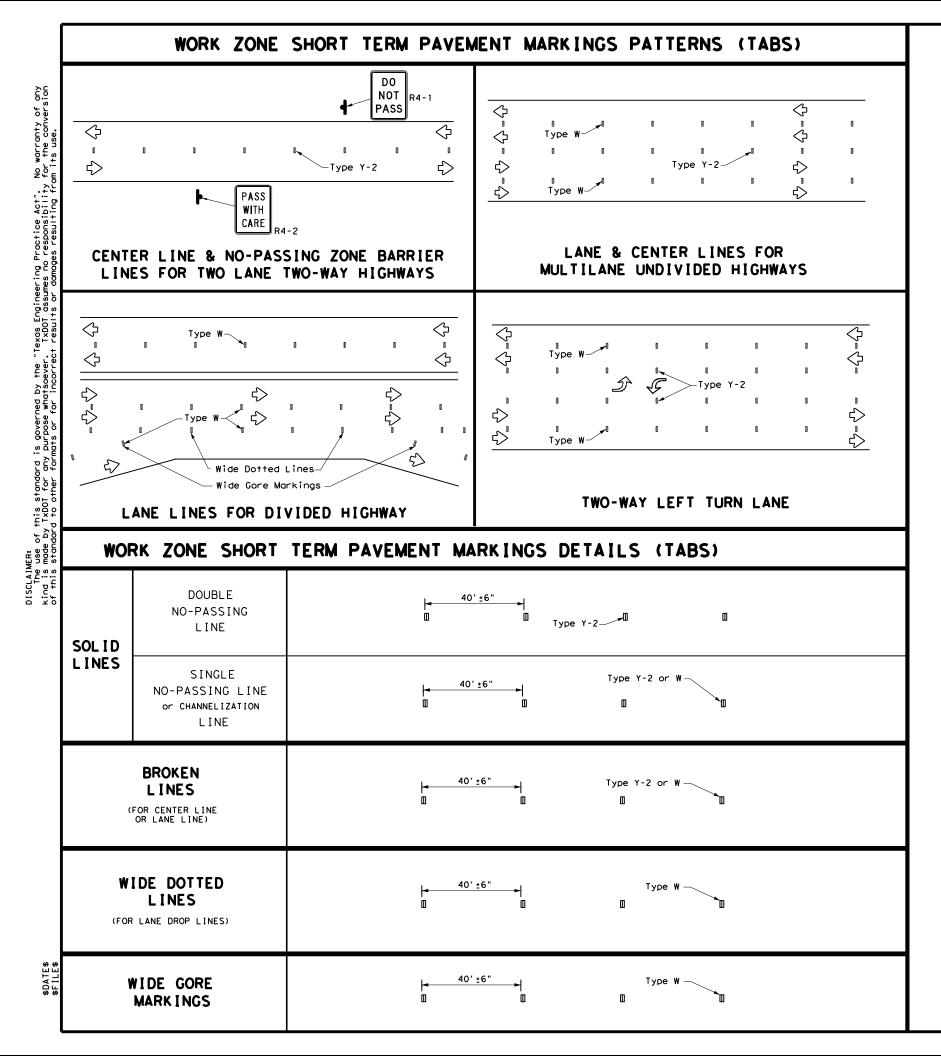




LEGEND									
	Type 3 Barricade		Channelizing Devices						
□‡	Heavy Work Vehicle	K	Truck Mounted Attenuator (TMA)						
Ê	Trailer Mounted Flashing Arrow Board	ŝ	Portable Changeable Message Sign (PCMS)						
-	Sign	2	Traffic Flow						
$\langle \rangle$	Flag	٩	Flagger						

Speed	osted Formula peed *		* *			d Maximum ng of lizing ices	Minimum Sign Spacing "x"	Suggested Longitudinal Buffer Space
*		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"В"
30	<u>ws²</u>	150'	165′	180'	30′	60′	120'	90'
35	$L = \frac{WS}{60}$	205′	225′	245'	35′	70′	160′	120′
40	80	265′	295′	320'	40′	80′	240′	1551
45		450'	495′	540′	45′	90′	320'	1951
50		500'	550ʻ	600′	50 <i>'</i>	100'	400′	240′
55	L=WS	550'	605′	660′	55 <i>'</i>	110′	500 <i>'</i>	295′
60	L #3	600 <i>'</i>	660 <i>'</i>	720'	60 <i>'</i>	120′	600 <i>'</i>	350′
65		650 <i>'</i>	715′	780'	65 <i>'</i>	130'	700′	410′
70		700′	770'	840'	70′	140′	800 <i>'</i>	475′
75		750'	825′	900′	75′	150′	900′	540′

TYPICAL USAGE								
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY				
		1						



NOTES:

- cover unless otherwise specified elsewhere in plans.
- 2, Short term payement markings shall NOT be used to simulate edge lines.
- noted.
- Permanent pavement markings shall be placed as soon as weather permits.

TEMPORARY FLEXIBLE, REFLECTIVE ROADWAY MARKER TABS (TABS)

- be found on BC(11).
- roadway aeometrics.
- visual performance requirements of Note 3.

DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS) & MATERIAL PRODUCER LISTS (MPL)

1. DMSs referenced above can be found along with embedded links to their respective MPLs at the following website: http://www.txdot.gov

1. Short term pavement markings shall be temporary flexible-reflective roadway marker tabs with protective

3. Dimensions indicated on this sheet are typical and approximate. Variations in size and height may occur between markers or devices made by manufacturers, by as much as 1/4 inch, unless otherwise

4. Temporary flexible-reflective roadway marker tabs will require normal maintenance replacement when used on roadways with an ADT per lane of up to 7500 vehicles with no more than 10% truck mix. When roadways exceed these values, additional maintenance replacement of devices should be planned.

5. No segment of roadway open to traffic shall remain without permanent pavement markings for a period greater than 14 calendar days. The Contractor will be responsible for maintaining short term pavement markings until permanent pavement markings are in place. When the Contractor is responsible for placement of permanent povement markings, no segment of roadway shall remain without permanent pavement markings for a period greater than 14 calendar days unless weather conditions prohibit placement.

6. For exit gores where a lane is being dropped place wide gore markings or retroreflective channelizing devices to guide motorist through the exit. If channelizing devices are to be used it should be noted elsewhere in the plans. One piece cones are not allowed for this purpose.

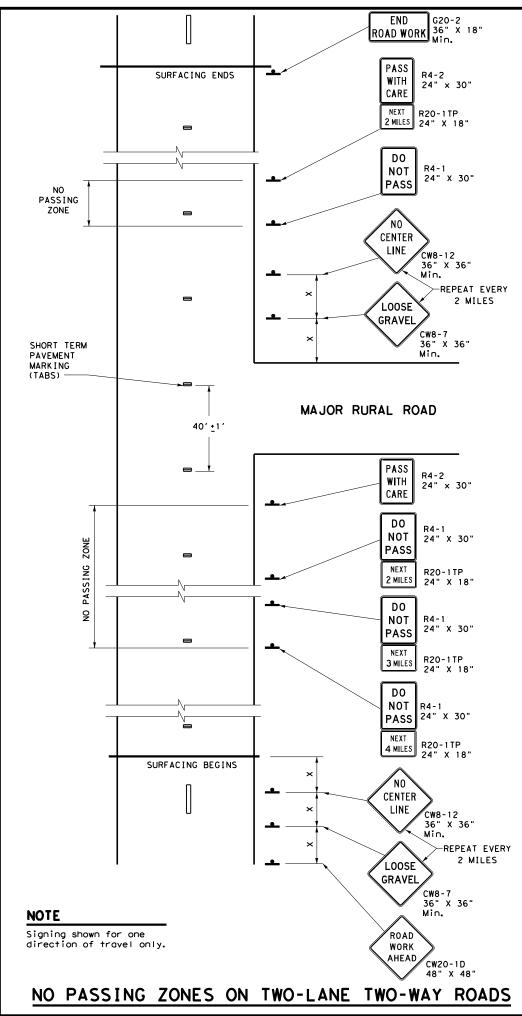
1. Temporary flexible-reflective roadway marker tabs detailed on this sheet will be designated Type Y-2 (two amber reflective surfaces with yellow body); Type Y (one amber reflective surface with yellow body); and Type W (one white or silver reflective surface with white body). Additional details may

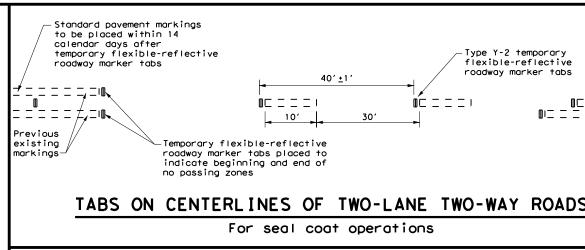
2. Tabs shall meet requirements of Departmental Material Specification DMS-8242.

3. When dry, tabs shall be visible for a minimum distance of 200 feet during normal daylight hours and when illuminated by automobile low-beam head light at night, unless sight distance is restricted by

4. No two consecutive tabs nor four tabs per 1000 feet of line shall be missing or fail to meet the

Sa Town Dependence of Terror Provide in Div	affic afety vision ndard								
WORK ZONE SHORT TERM PAVEMENT MARKINGS FOR SEAL COAT OPERATIONS TCP (SC-6)-21									
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"DO NOT PASS" SIGN (R4-1) and NO-PASSING ZONES

- Prior to the beginning of construction, all currently striped no-passing zones shall be si DO NOT PASS (R4-1) signs and PASS WITH CARE (R4-2) signs placed at the beginning and end o Α. for each direction of travel except as otherwise provided herein. Signs marking these ind no-passing zones need not be covered prior to construction if the signs supplement the exi markinas.
- At the discretion of the Engineer, in areas of numerous no-passing zones, several zones may в. as a single zone. If passing is to be prohibited over one or more lengthy sections, a DO and a NEXT XX MILES (R20-1TP) plaque may be used at the beginning of such zones. The DO N and the NEXT XX MILES plaque should be repeated every mile to the end of the no-passing zo where there is considerable distance between no-passing zones, the end of the no-passing signed with a PASS WITH CARE sign and a NEXT XX MILES plaque.
- Depending on traffic volumes and length of sections, it may be desirable to prohibit passi с. the project to prevent damage to windshield and lights. The DO NOT PASS sign and NEXT XX should be used and repeated as often as necessary for this purpose. Where several existin to be combined into one individual no-passing zone, the sign at the beginning of the zone covered until the surfacing operation has passed this location so as not to have the DO NC conflict with the existing pavement markings. Also, unless one days operation completes length of such combined zones, appropriate DO NOT PASS and PASS WITH CARE signs should be the beginning and end of the no-passing zones where the surfacing operation has stopped for
- D. R4-1 and R4-2 are to remain in place until standard pavement markings are installed.

"NO CENTER LINE" SIGN (CW8-12)

- Center line markings are yellow pavement markings that delineate the separation of travel Α. have opposite directions of travel on a roadway. Divided highways do not typically have ce markinas.
- At the time construction activity obliterates the existing center line markings(low volume not have an existing centerline), a NO CENTER LINE (CW8-12) sign should be erected at the of the work area, at approximately 2 mile intervals within the work area, beyond major int and other locations deemed necessary by the Engineer.
- C. The NO CENTER LINE signs are to remain in place until standard povement markings are inst

"LOOSE GRAVEL" SIGN (CW8-7)

- When construction begins, a LOOSE GRAVEL (CW8-7) sign should be erected at each end of the Α. and repeated at intervals of approximately 2 miles in rural areas and closer in urban area
- B. The LOOSE GRAVEL signs are to remain in place until the condition no longer exists.

PAVEMENT MARKINGS

- Α. Temporary markings for surfacing projects shall be Temporary Flexible-reflective Roadway unless otherwise approved by the Engineer. Tabs are to be installed to provide true align striping crews or as directed by the Engineer. Tabs will be placed at the spacing indica should be applied to the pavement
 - no more than two (2) days before the surfacing is applied. After the surfacing is rolled the cover over the reflective strip shall be removed.
- B. Tabs shall not be used to simulate edge lines.

COORDINATION OF SIGN LOCATIONS

- The location of warning signs at the beginning and end of a work area are to be coordinate Α. signing typically shown on the Barricade and Construction Standards for project limits to ensure adequate sign spacing.
- Where possible the ROAD WORK AHEAD (CW20-1D), LOOSE GRAVEL (CW8-7), and NO CENTER LINE (CW8-12) signs should be placed in the sequence shown following the OBEY WARNING SIGNS STATE LAW (R20-3T) and the TRAFFIC FINES DOUBLE (R20-5T) sign, and one "X" sign spacing prior to the CONTRACTOR (G20-6T) sign typically located at or near the limits of surfacing. LOOSE GRAVEL and NO CENTER LINE signs will then be repeated as described above.

\$TIME\$ \$DATE\$

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					Distance			
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				35	160'			
				40	240'			
				45	320'			
				50	400'			
				55	500'			
				60	600'			
				65	700'			
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JAUS				75	900'			
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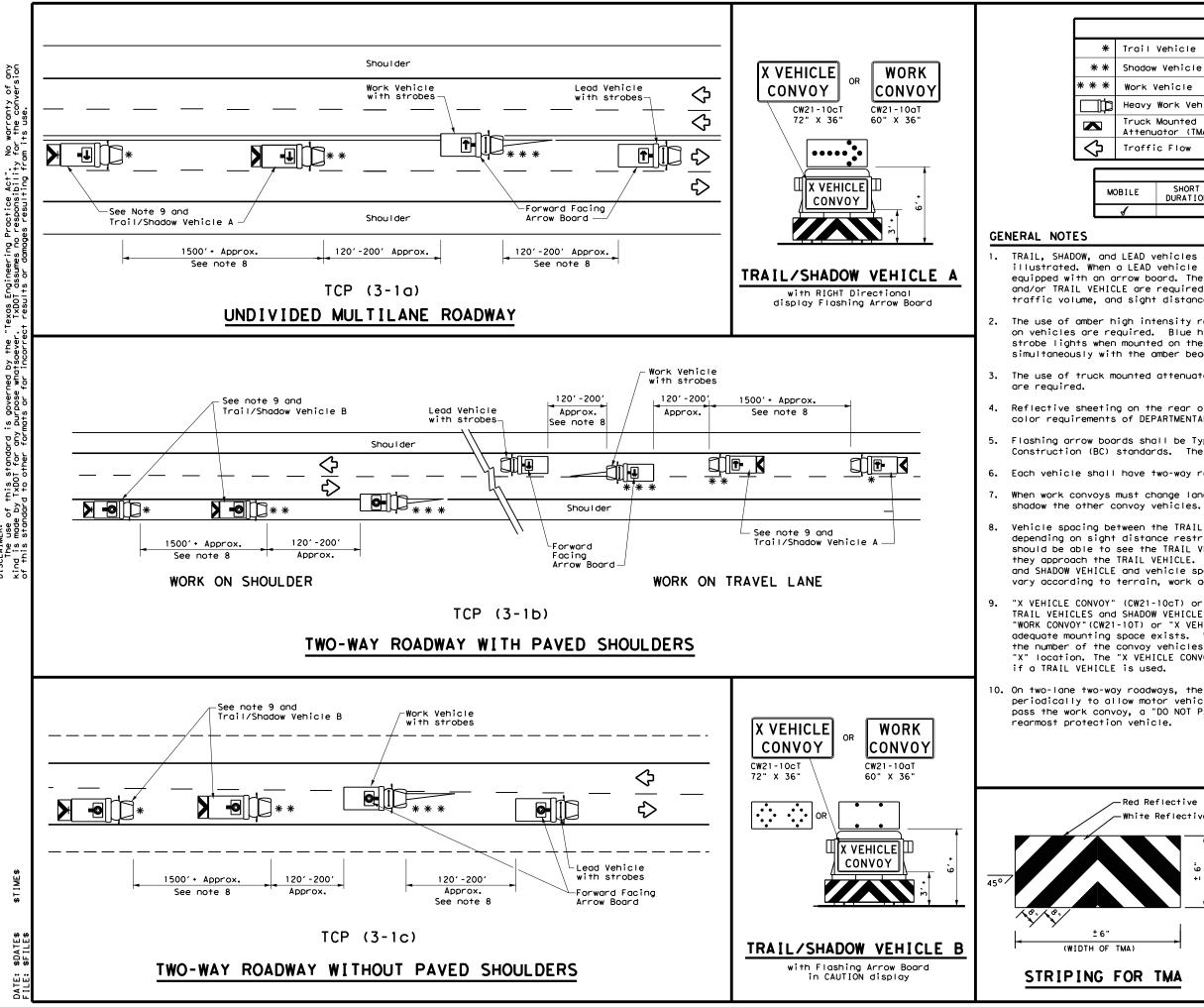
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LEGEND								
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TRAIL, SHADOW, and LEAD vehicles shall be equipped with arrow boards as illustrated. When a LEAD vehicle is not used the WORK vehicle must be equipped with an arrow board. The Engineer 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

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.

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.

Each vehicle shall have two-way radio communication capability.

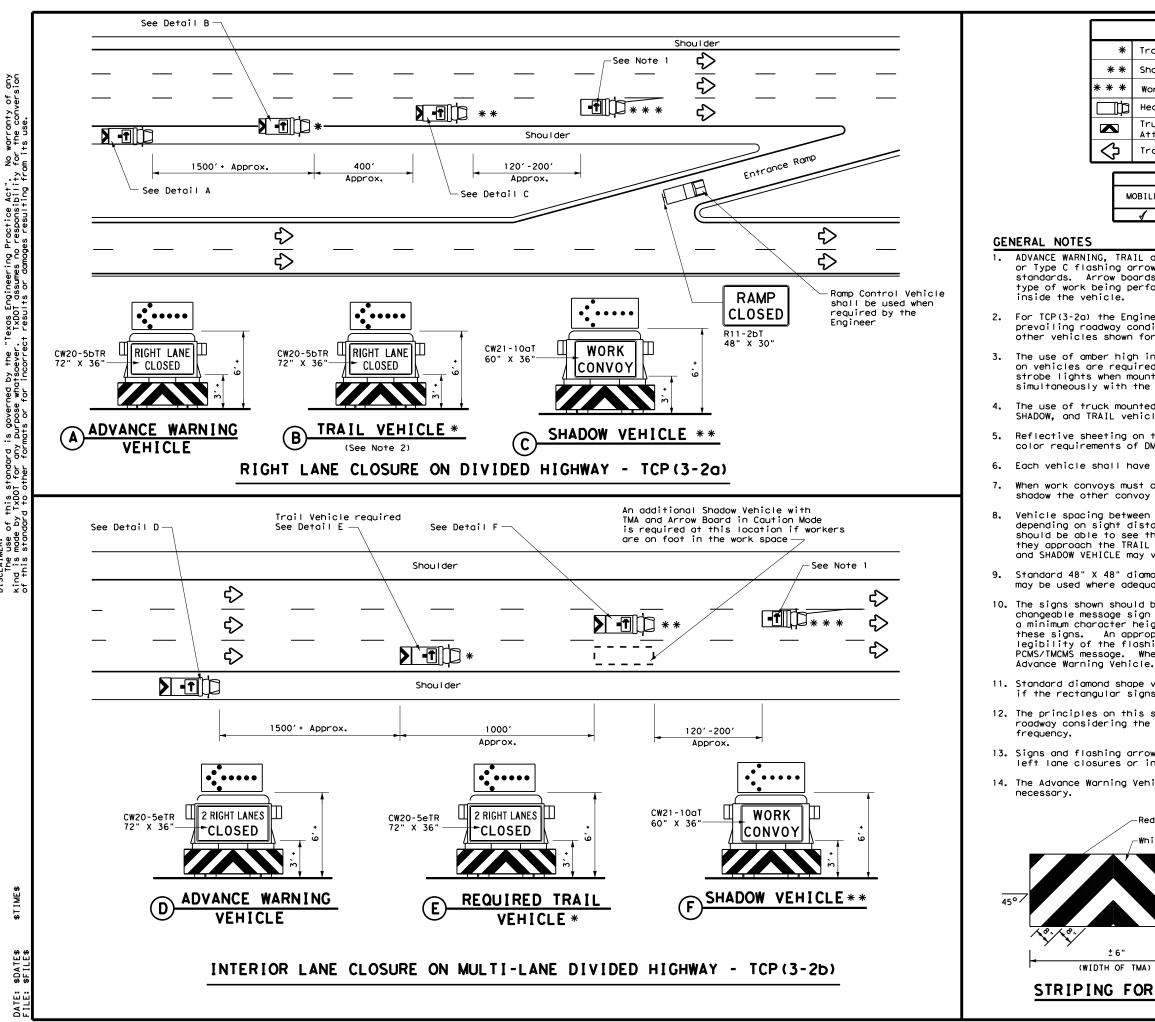
When work convoys must change lanes, the TRAIL VEHICLE should change lanes first to

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.

"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

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

Red Reflective White Reflective	Texas Departme	nt of Transp	ortation	Traffic Operations Division Standard			
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Trail Vehicle ARROW BOARD DISPLAY Shadow Vehicle RIGHT Directional		
Shadow Vehicle		
Work Vehicle 📑 RIGHT Directional		
Heavy Work Vehicle 🗲 LEFT Directional		
Truck Mounted Attenuator (TMA)		
Traffic Flow CAUTION (Alternating Diamond or 4 Corner Flash		
TYPICAL USAGE		

OBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
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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

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.

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.

The use of truck mounted attenuators (TMA) on the ADVANCE WARNING, SHADOW, and TRAIL vehicles are required.

Reflective sheeting on the rear of the TMA shall meet or exceed the reflectivity and color requirements of DMS 8300, Type A.

Each vehicle shall have two-way radio communication capability.

When work convoys must change lanes, the TRAIL VEHICLE should change lanes first to shadow the other convoy vehicles.

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.

Standard 48" X 48" diamond shaped warning signs with the same message as those shown may be used where adequate mounting space exists.

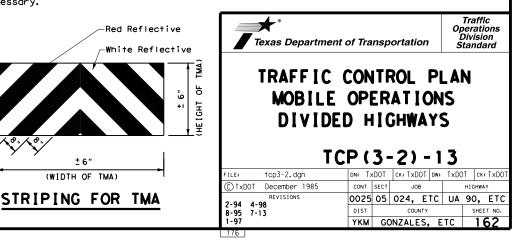
10. The signs shown should be used on the Advance Warning Vehicle. As an option, a portable changeable message sign (PCMS) or a truck mounted changeable message sign (TMCMS) with a minimum character height of 12", and displaying the same legend may be substituted for these signs. An appropriate directional 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

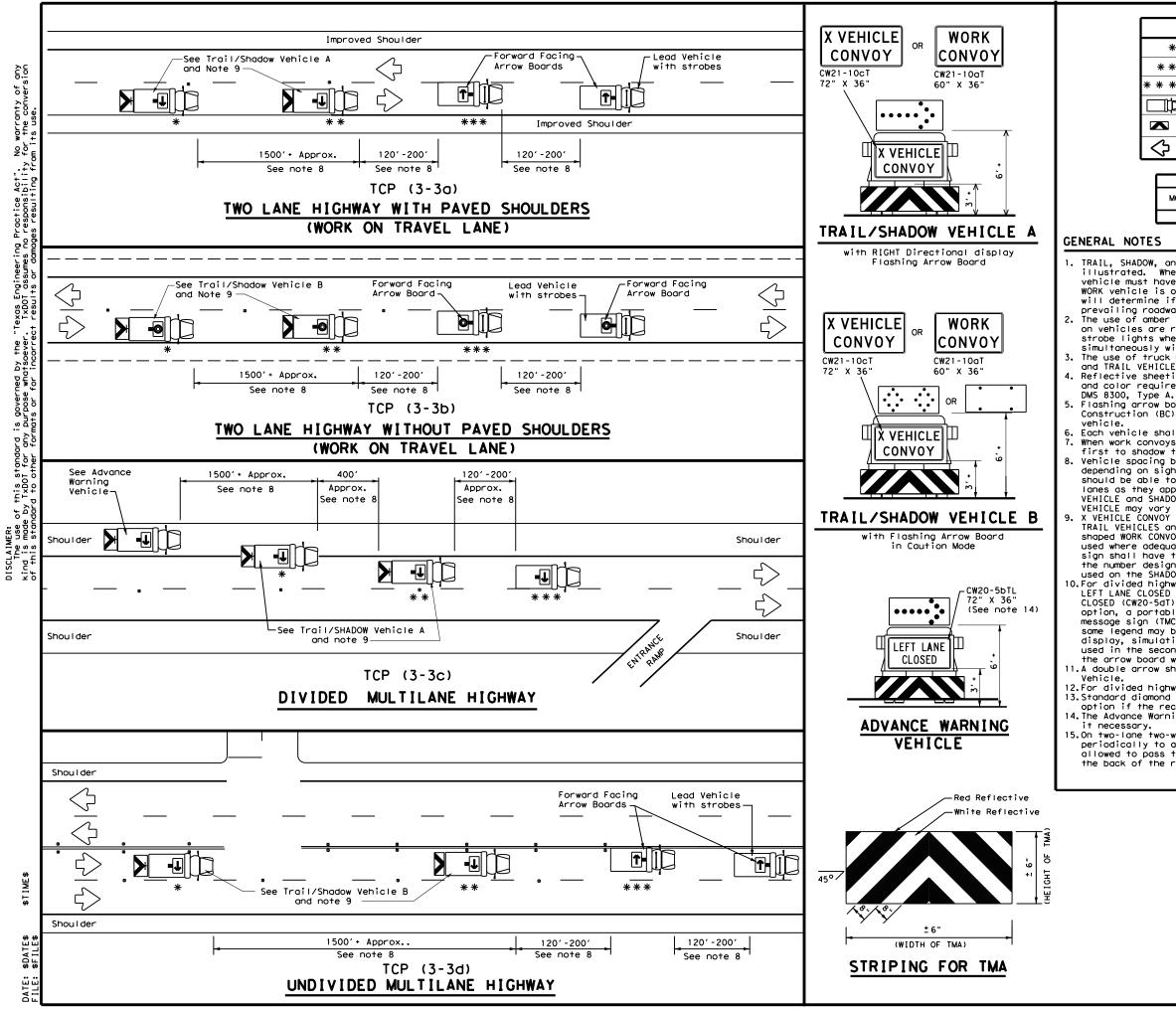
11. Standard diamond shape versions of the CW20-5 series signs may be used as an option if the rectangular signs shown are not available.

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

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





Sp.

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

TYPICAL USAGE								
MOBILE	SHORT DURATION		INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY				
4								

1. TRAIL, SHADOW, and LEAD vehicles shall be equipped with arrow boards as

illustrated. When a LEAD vehicle is not used on two way roads the WORK vehicle must have an arrow board. For divided roadways, the arrow board on the WORK vehicle is optional based on the type of work being performed. 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. 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. The use of truck mounted attenuators (TMA) on the SHADOW VEHICLE, ADVANCE WARNING

and TRAIL VEHICLE are required. Reflective sheeting on the rear of the TMA shall meet or exceed the reflectivity

and color requirements of DEPARTMENTAL MATERIAL SPECIFICATION

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

Each vehicle shall have two-way radio communication capability. When work convoys must change lanes, the TRAIL VEHICLE should change lanes first to shadow the other convoy vehicles. Vehicle spacing between the TRAIL VEHICLE and the SHADOW VEHICLE will vary

depending on sight distance restrictions. Motorists approaching the 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. 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 (CW21-10DT) 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.

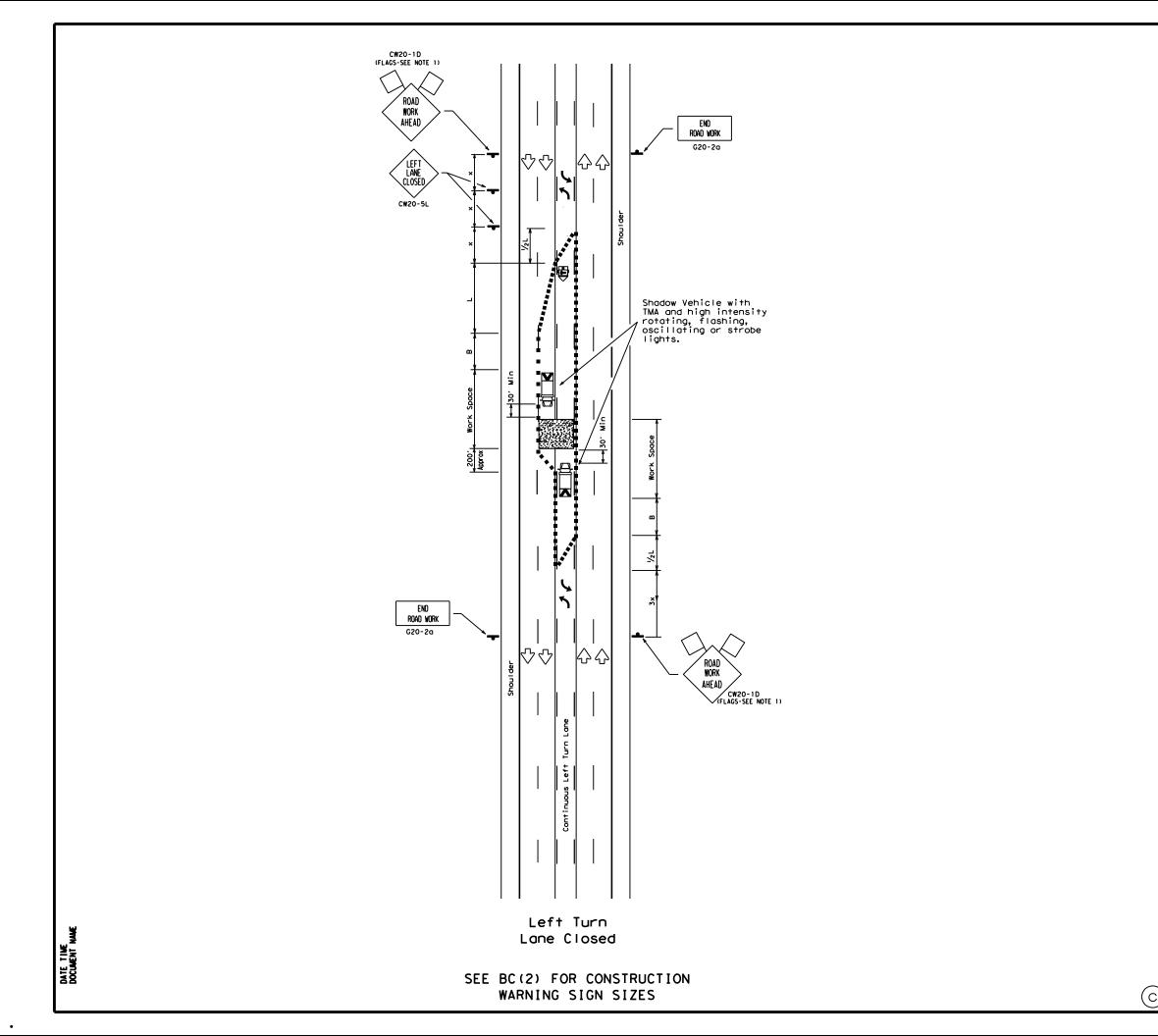
10.For divided highways with two or three lanes in one direction, the appropriate LEFT LANE CLOSED (CW20-5bTL), RIGHT LANE CLOSED (CW20-5bTR), or CENTER LANE CLOSED (CW20-5dT) sign should be used on the Advance Warning Vehicle. As an option, a portable changeable message sign (PCMS) or truck mounted 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 may 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.A double arrow shall not be displayed on the arrow board on the Advance Warning

12.For divided highways with three or four lanes in each direction, use TCP(3-2). 13.Standard diamond shape versions of the CW20-5 series signs may be used as an option if the rectangular signs shown are not available. 14. The Advance Warning Vehicle may straddle the edgeline when Shoulder width makes

15.0n 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.

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	LEGEND								
e	Type 3 Barricade		Channelizing Devices						
□Þ	Heavy Work Vehicle	K	Truck Mounted Attenuator (TMA)						
Ê	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)						
þ	Sign	Ŷ	Traffic Flow						
\Diamond	Flag	ц	Flagger						

Speed	Formula	0	Minimu esirab er Len X X	le	Spaci Channe	d Maximum ng of lizing ices	Minimum Sign Spacing "x"	Suggested Longitudinol Buffer Space
*		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	-B-
30	2	150'	165'	180'	30'	60'	120'	90'
35	L= <u>WS²</u>	205'	225'	245'	35'	70'	160'	120'
40	60	265'	295'	320'	40'	80 <i>'</i>	240'	155'
45		450'	495'	540'	45'	90'	320'	1951
50		500'	550'	600'	50'	100'	400'	240'
55	L≖₩S	550'	605 <i>'</i>	660'	55'	110'	500 <i>'</i>	295'
60	L-#3	600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65 <i>'</i>	130'	700 <i>'</i>	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

* Conventional Roads Only

** Taper lengths have been rounded off. L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Spe

L-Lengin		TYPICAL U	ISAGE	
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
		1	1	

GENERAL NOTES

- GENERAL NOTES
 Flags attached to signs where shown, are REQUIRED.
 For short term applications, when post mounted signs are not used, the distance legend may be shown on the sign face rather than an a CMI6-30P supplemental plaque.
 A Shadaw Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place. Type 3 Borricades or other channelizing devices may be substituted for the Shadaw Vehicle and TMA.
 Additional Shadaw Vehicles with TMAs may be positioned in each closed lone, on the shoulder or off the paved surface, next to those shown in order to protect a wider work space.

The requirement for shadow vehicles will be listed in the project GENERAL NOTES, Item 502, Barricades, Signs and Traffic Handling.

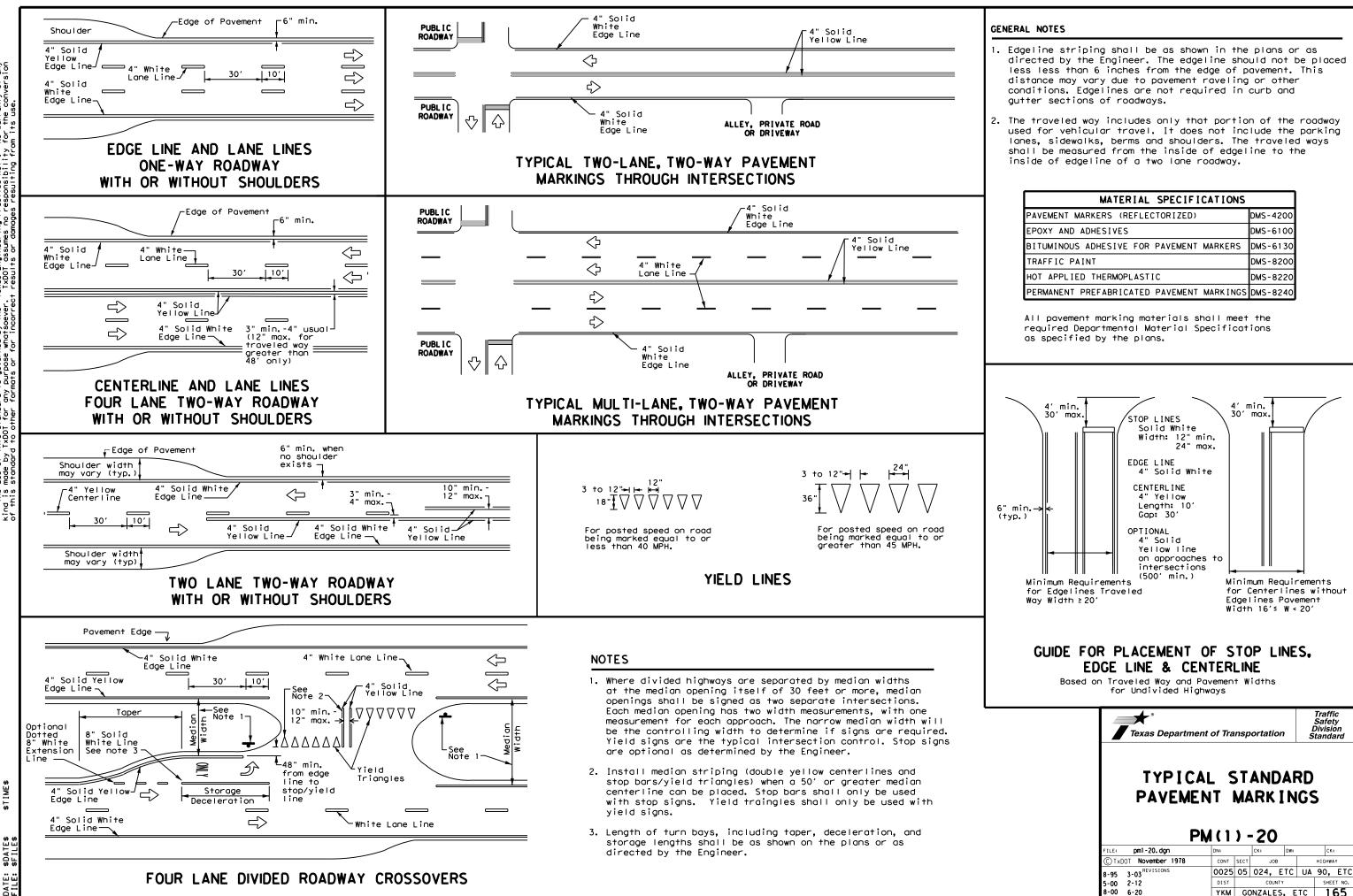
***** STANDARD PLANS TEXAS DEPARTMENT OF TRANSPORTATION

(YKM DISTRICT) TRAFFIC CONTROL PLAN

Left Turn Lane Closed

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	© T×DOT	CONT	SECT	JOB		HIGHWAY
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		DIST		COUNTY		SHEET NO.
		YKM	G	ONZALES	- ETC	164

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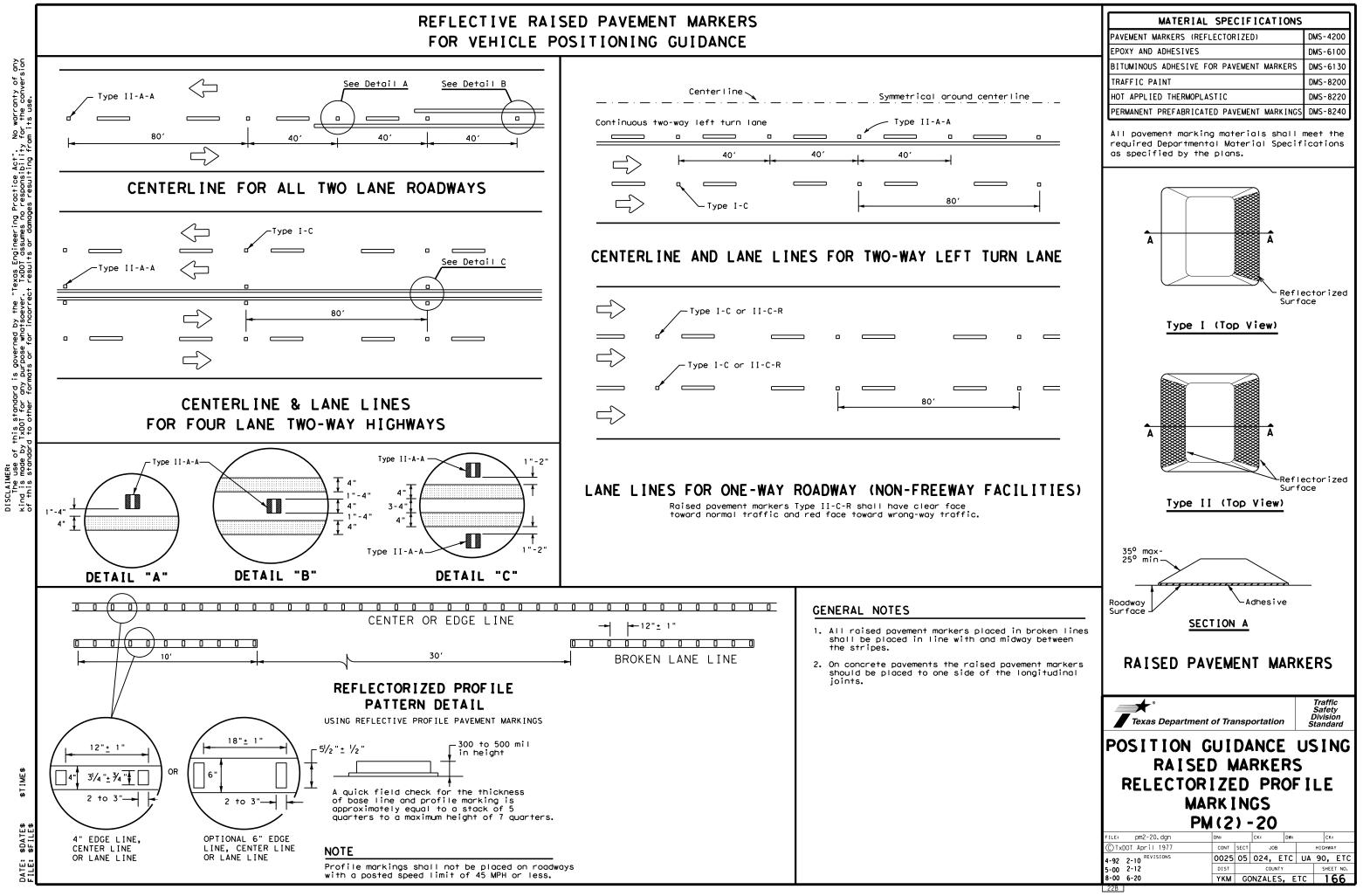
No warranty of any for the conversion Practice Act". No responsibility is governed by the "Texas Engineering purpose whatsoever. TxDOT assumes no mate or for incorrect results or Amono SCLAIMER: The use of this standard ind is made by TxDD for any this standard to other for

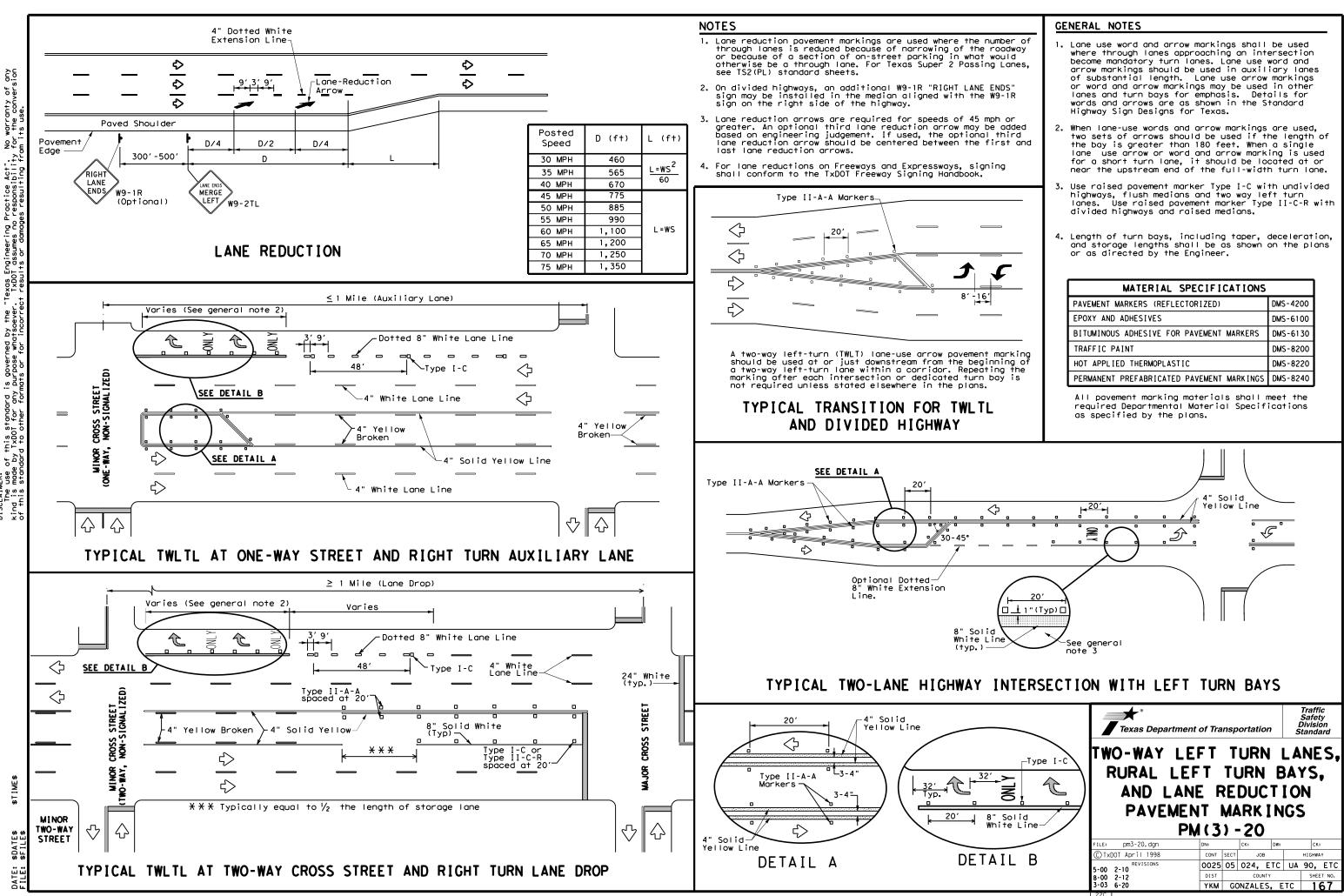
SDATES SFILES

MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240

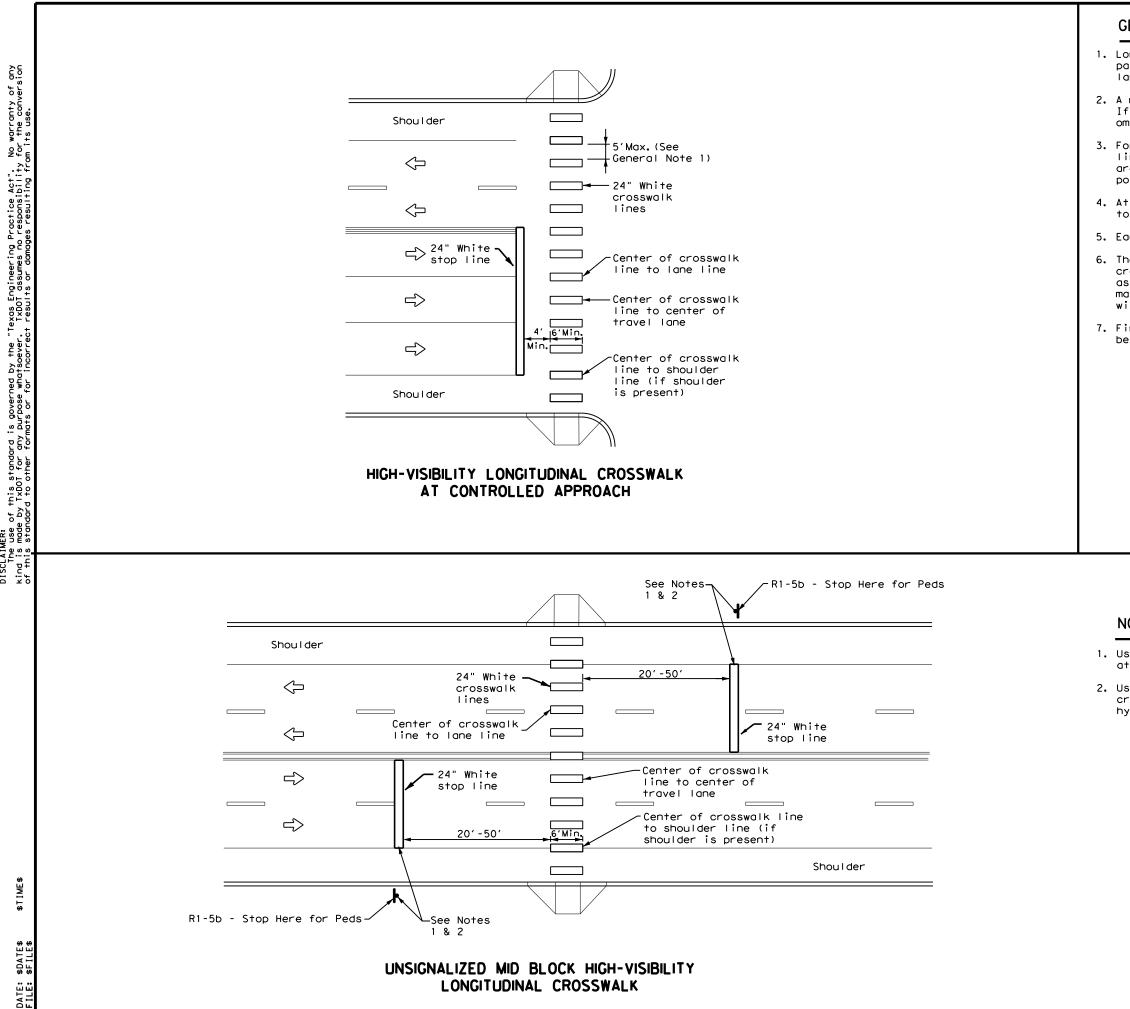
Texas Departme	ent of Trans	portatio	n	ċ	Trafi Safe Divisi tand	ty ion
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FOR VEHICLE POSITIONING GUIDANCE





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GENERAL NOTES

1. Longitudinal crosswalk lines should not be placed in the wheel path of vehicles. Center the crosswalk lines on travel lanes, lane lines, and shoulder lines (if present).

2. A minimum 6" clear distance shall be provided to the curb face. If the last crosswalk line falls into this distance it must be omitted.

3. For divided roadways, adjustments in spacing of the crosswalk lines should be made in the median so that the crosswalk lines are maintained in their proper location across the travel portion of the roadway.

4. At skewed crosswalks, the crosswalk lines are to remain parallel to the lane lines.

5. Each crosswalk shall be a minimum of 6' wide.

6. The High-Visibility Longitudinal Crosswalk is the preferred crosswalk pattern on State Highways. Other crosswalk patterns as shown in the "Texas Manual on Uniform Traffic Control Devices may be used. All crosswalk designs and dimension shall comply with the "Texas Manual on Uniform Traffic Control Devices."

7. Final placement of Stop Bar and Crosswalk shall be approved by the Engineer in the field.

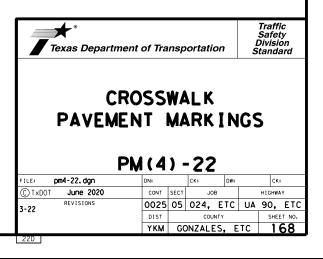
MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240
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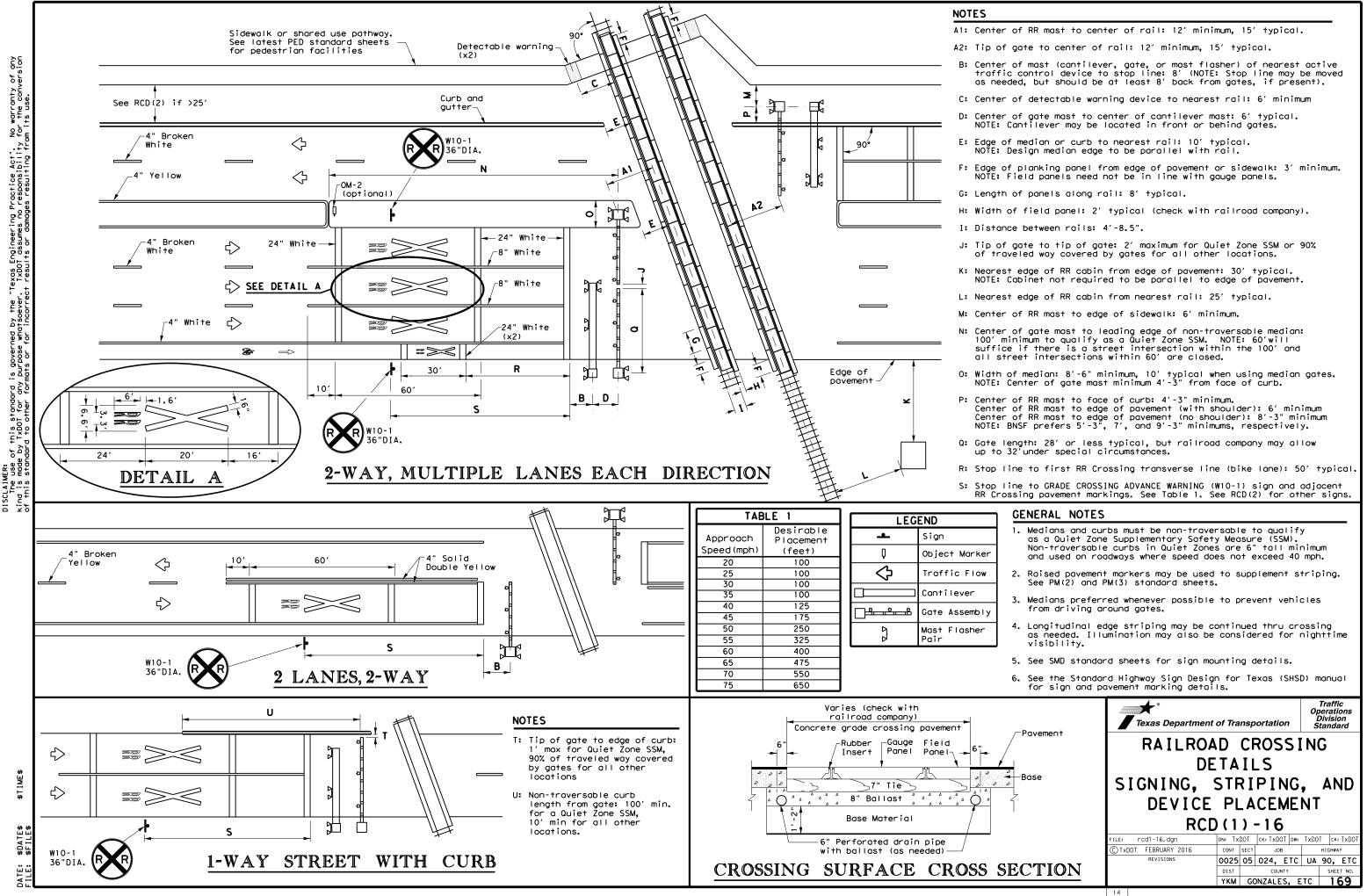
All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

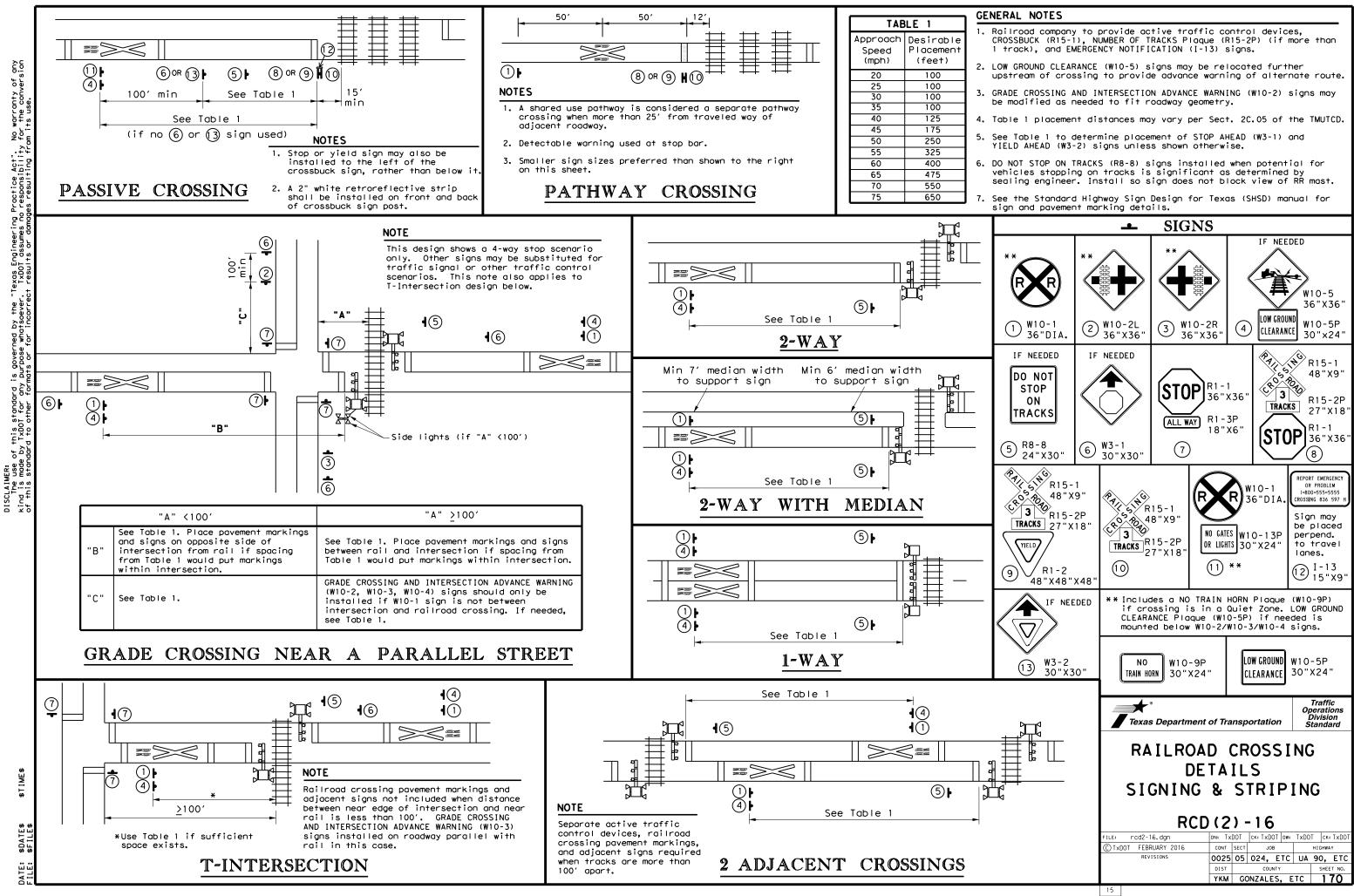
NOTES:

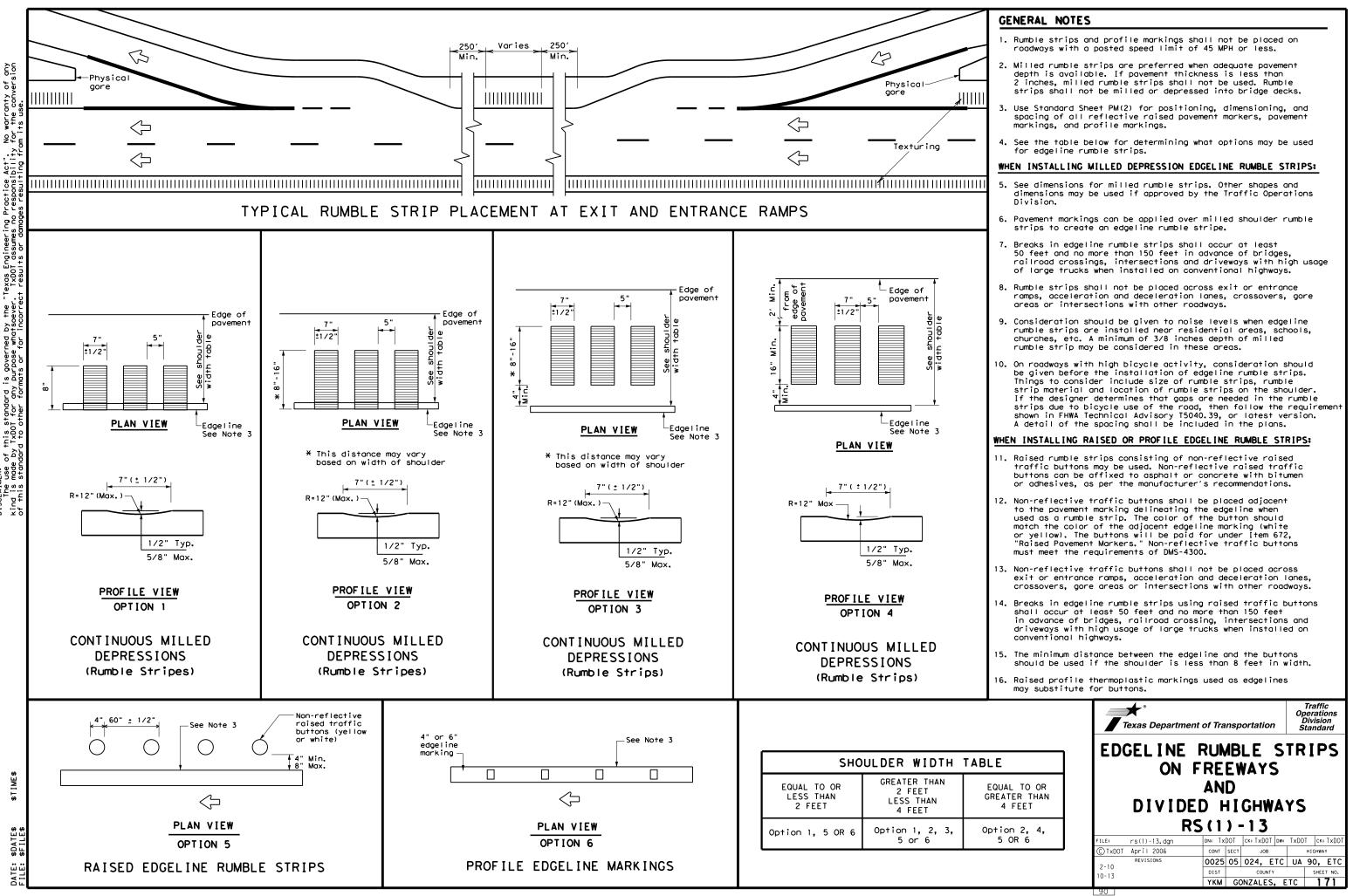
1. Use stop bars with "Stop Here for Pedestrians" signs at unsignalized mid block cross walks.

2. Use stop bars with "Stop Here on Red" signs at mid block crosswalks controlled by traffic signals or pedestrian hybrid beacons.

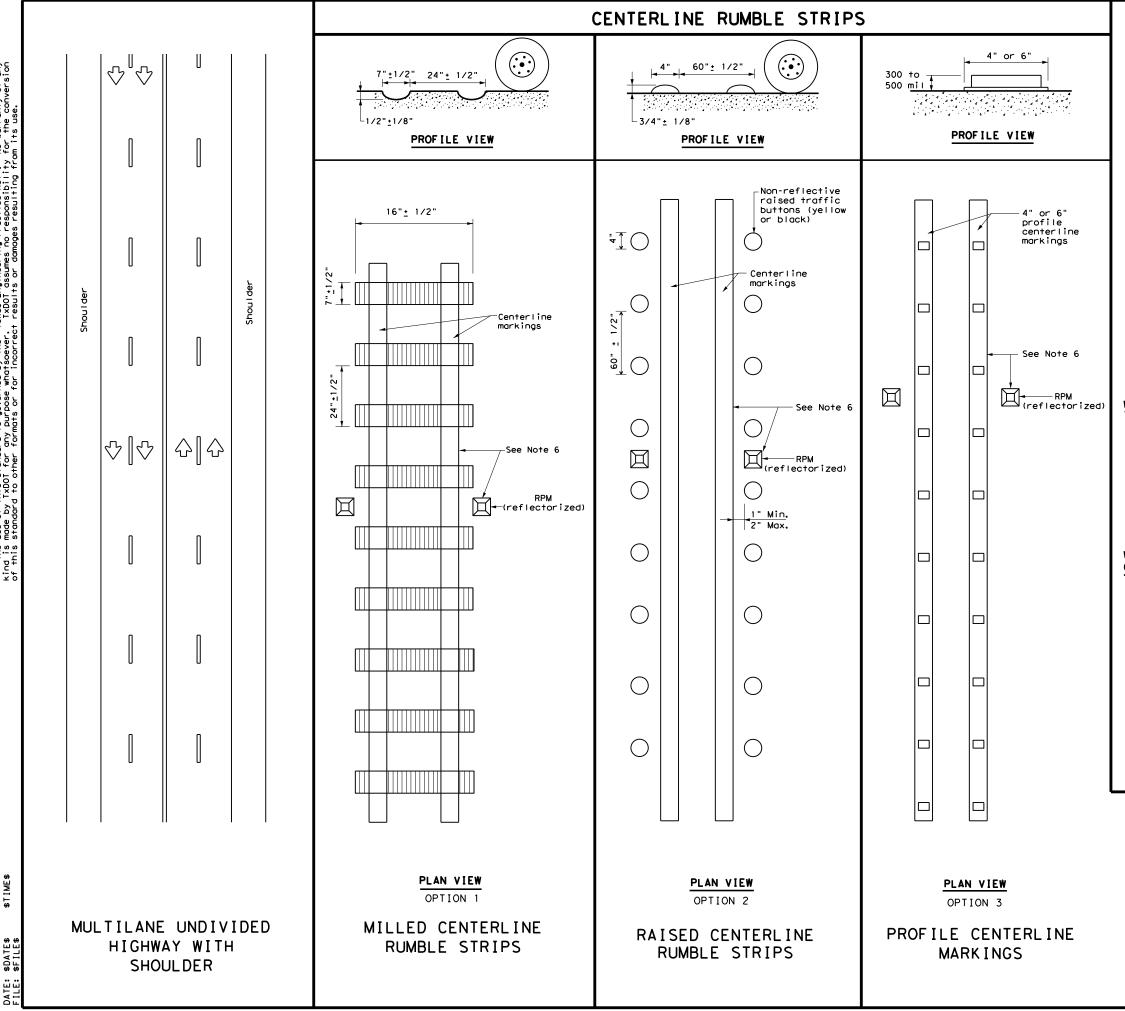








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GENERAL NOTES

- 1. This standard sheet provides guidelines for installing centerline rumble strips on multilane undivided highways.
- Centerline and edgeline rumble strips or profile markings shall not be placed on roadways with a posted speed limit of 45 MPH or less.
- 3. Milled rumble strips are preferred when adequate pavement depth is available. If pavement thickness is less than 2 inches, milled rumble strips shall not be used. Rumble strips shall not be milled or depressed into bridge decks.
- 4. See dimensions for milled rumble strips. Other shapes and dimensions may be used if approved by the Traffic Operations Division.
- 5. Breaks in milled centerline rumble strips shall occur at least 50 feet and no more than 150 feet in advance of bridges, railroad crossing, intersections and driveways with high usage of large trucks.
- 6. Use Standard Sheet PM(2) for positioning, dimensioning, and spacing of all reflective raised pavement markers, pavement markings and profile markings.
- Consideration should be given to noise levels when centerline rumble strips are installed near residential areas, schools, churches, etc. A minimum of 3/8 inch depth of milled rumble strip may be considered in these areas.
- 8. Pavement markings must be applied over milled centerline rumble strips for normal centerline spacing. For wider medians, specify in the plans the exact placement of the rumble strips. Place the rumble strips under each centerline marking or centered in the middle of the median.

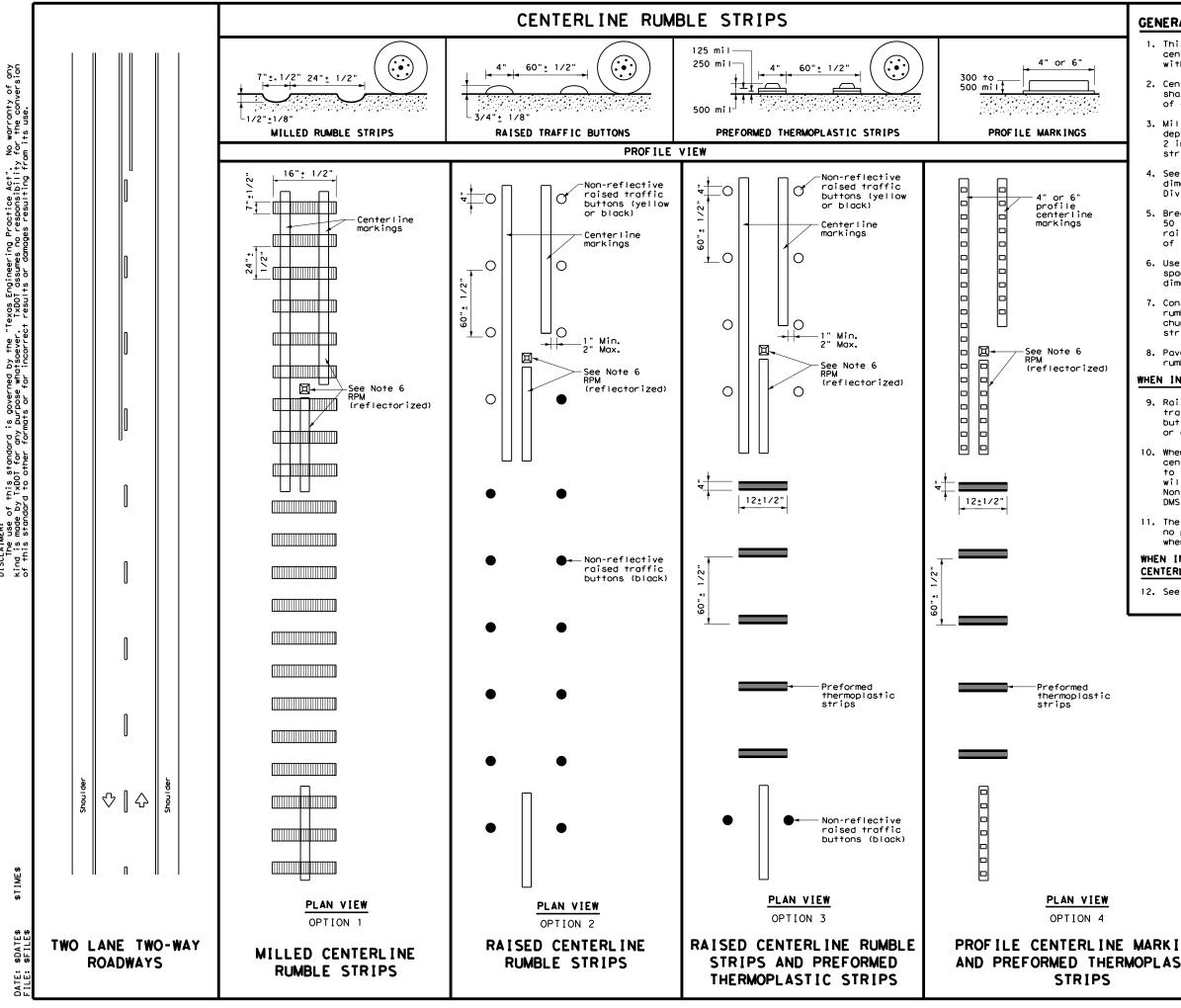
WHEN INSTALLING CENTERLINE RUMBLE STRIPS:

- 9. Raised rumble strips consisting of non-reflective raised traffic buttons may be used. Non-reflective raised traffic buttons can be affixed to asphalt or concrete with bitumen or adhesives, as per manufacturer's recommendations.
- 10. When using non-reflective raised traffic buttons as a centerline rumble strip, the button shall be placed adjacent to the pavement marking delineating the centerline. The color of the button should be yellow for a continuous no passing roadway. The button will be paid for under Item 672, "Raised Pavement Markers." Non-reflective traffic buttons must meet the requirements of DMS-4300.

WHEN INSTALLING EDGELINE RUMBLE STRIPS WITH OR WITHOUT CENTERLINE RUMBLE STRIPS ON UNDIVIDED HIGHWAYS:

11. See standard sheet RS(4).

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Traffic Operatio	ns Divisio	on Standard		
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RS (FILE: rs(2)-13.dgn DN © TxDOT October 2013 C REVISIONS ON	2) • TxDOT ONT SECT	- 1 3 CK: TXDOT DW: JOB	: TxDOT	ck: TxDOT highway



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GENERAL NOTES

- 1. This standard sheet provides guidelines for installing centerline rumble strips on two-lane highways with or without shoulders.
- 2. Centerline and edgeline rumble strips or profile markings shall not be placed on roadways with a posted speed limit of 45 MPH or less.
- 3. Milled rumble strips are preferred when adequate pavement depth is available. If pavement thickness is less than 2 inches, milled rumble strips shall not be used. Rumble strips shall not be milled or depressed into bridge decks.
- 4. See dimensions for milled rumble strips. Other shapes and dimensions may be used if approved by the Traffic Operations Division.
- 5. Breaks in milled centerline rumble strips shall occur at least 50 feet and no more than 150 feet in advance of bridges, railroad crossings, intersections and driveways with high usage of large trucks.
- 6. Use Standard Sheet PM(2) for positioning, dimensioning, and spacing of all reflective raised pavement markers, and dimensions pavement markings and profile markings.
- 7. Consideration should be given to noise levels when centerline rumble strips are installed near residential areas, schools, churches, etc. A minimum of 3/8 inch depth of milled rumble strip may be considered in these areas.
- 8. Pavement markings must be applied over milled centerline rumble strips.

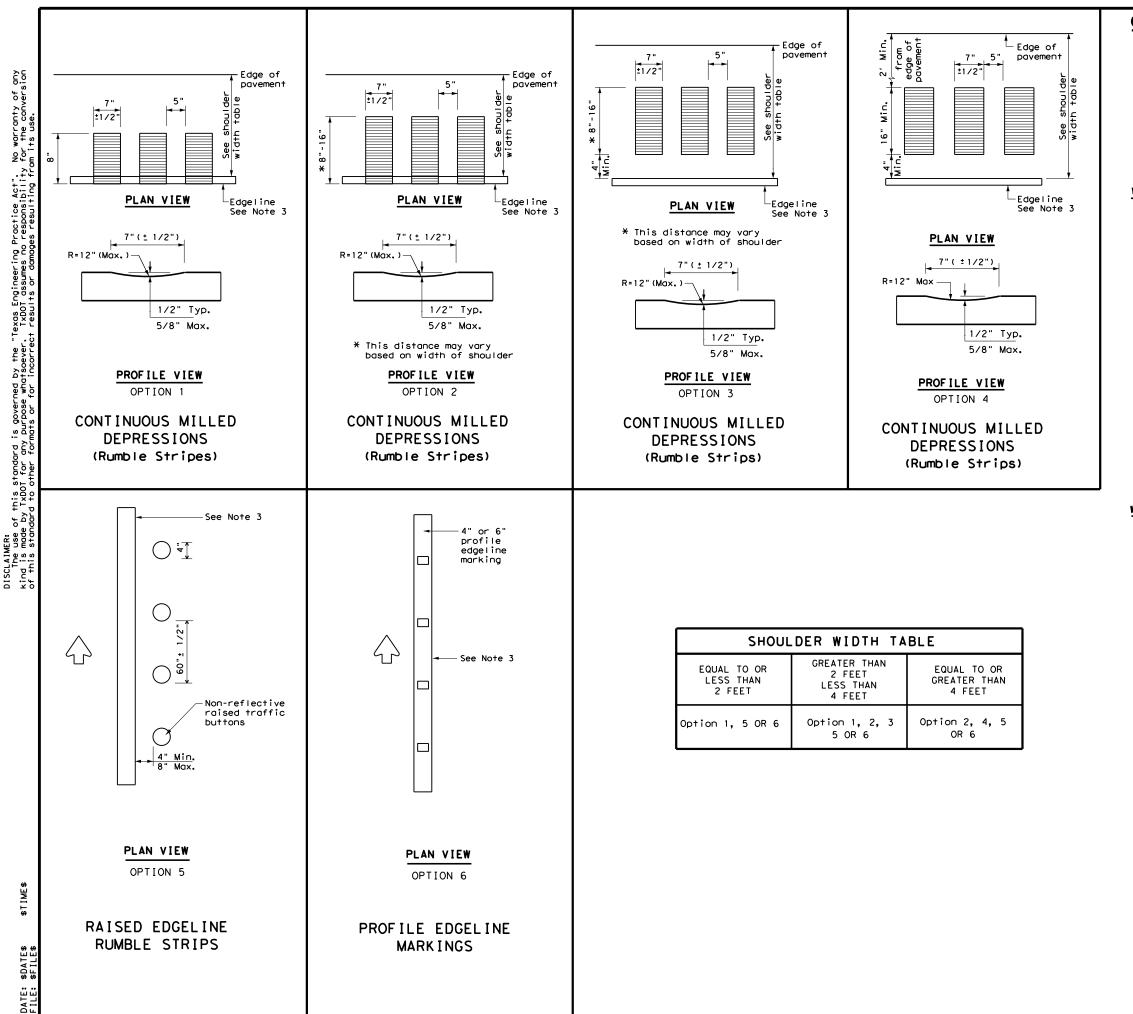
WHEN INSTALLING CENTERLINE RUMBLE STRIPS:

- 9. Raised rumble strips consisting of non-reflective raised traffic buttons may be used. Non-reflective raised traffic buttons can be affixed to asphalt or concrete with bitumen or adhesives, as per manufacturer's recommendations.
- 10. When using non-reflective raised traffic buttons as a centerline rumble strip, the button shall be placed adjacent to the pavement marking delineating the centerline. The buttons will be paid for under Item 672, "Raised Pavement Markers." Non-reflective traffic buttons must meet the requirements of DMS-4300.
- 11. The color of the button should be yellow for a continuous no passing roadway. Black buttons should be used in areas where passing is allowed.

WHEN INSTALLING EDGELINE RUMBLE STRIPS WITH OR WITHOUT CENTERLINE RUMBLE STRIPS ON UNDIVIDED HIGHWAYS:

12. See standard sheet RS(4).

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NGS	FILE:	rs(3)-13,dgn			-	w:TxDO1	ск: TxDOT
STIC	(C) T x D 0	T October 2013	CONT	SECT	JOB		HIGHWAY
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GENERAL NOTES

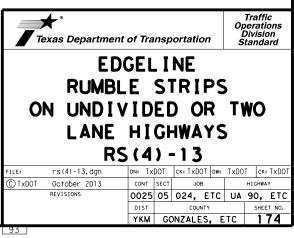
- Rumble strips and profile markings shall not be placed on roadways with a posted speed limit of 45 MPH or less.
- Milled rumble strips are preferred when adequate pavement depth is available. If pavement thickness is less than 2 inches, milled rumble strips shall not be used. Rumble strips shall not be milled or depressed into bridge decks.
- 3. Use Standard Sheet PM(2) for positioning, dimensioning, and spacing of all reflective raised pavement markers, pavement markings, and profile markings.
- 4. See the table below for determining what options may be used for edgeline rumble strips.

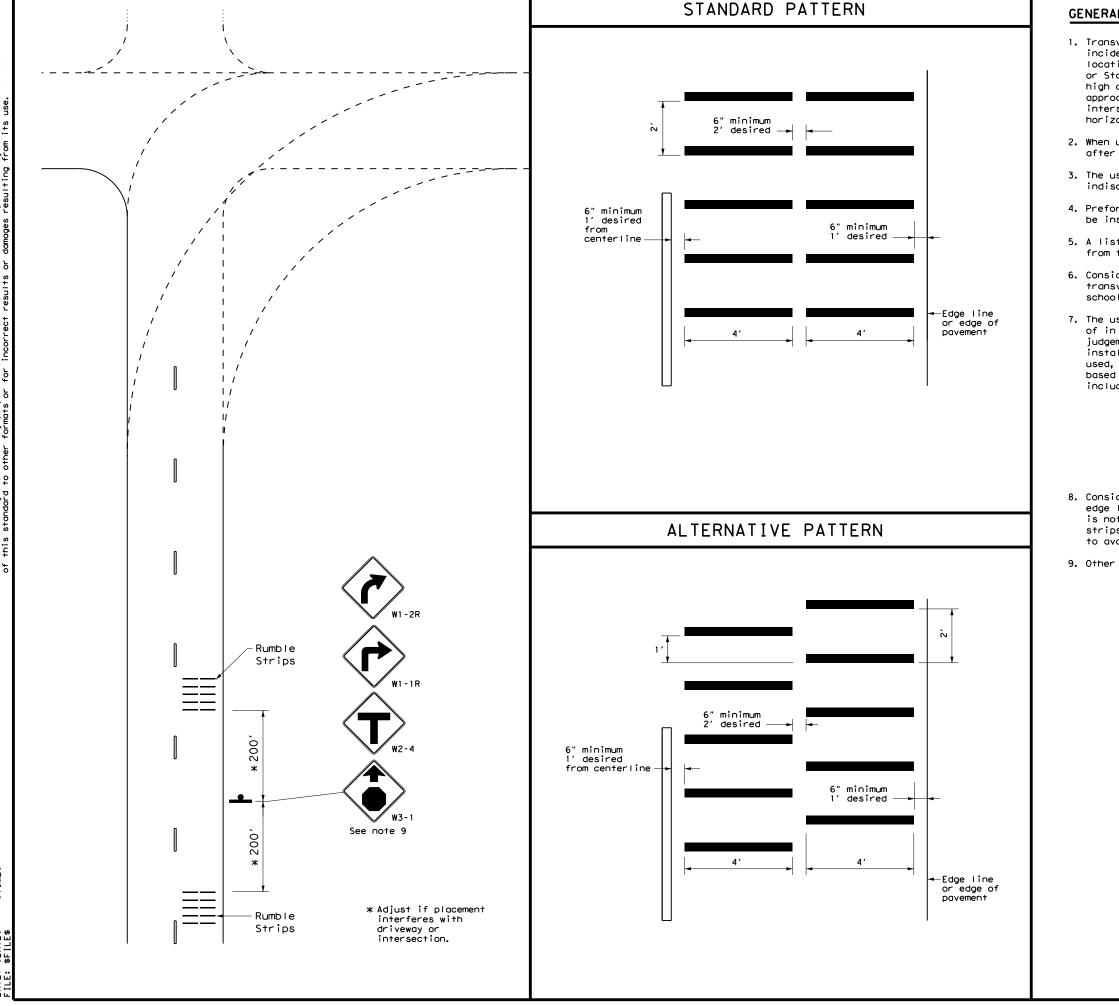
WHEN INSTALLING MILLED DEPRESSION EDGELINE RUMBLE STRIPS:

- 5. See dimensions for milled rumble strips. Other shapes and dimensions may be used if approved by the Traffic Operations Division.
- 6. Pavement markings can be applied over milled shoulder rumble strips to create an edgeline rumble stripe.
- 7. Breaks in edgeline rumble strips shall occur at least 50 feet and no more than 150 feet in advance of bridges, railroad crossings, intersections and driveways with high usage of large trucks when installed on conventional highways.
- 8. Rumble strips shall not be placed across exit or entrance ramps, acceleration and deceleration lanes, crossovers, gore areas or intersections with other roadways.
- 9. Consideration should be given to noise levels when edgeline rumble strips are installed near residential areas, schools, churches, etc. A minimum of 3/8 inches depth of milled rumble strip may be considered in these areas.
- On roadways with high bicycle activity, consideration should be given before the installation of edgeline rumble strips. Things to consider include size of rumble strips, rumble strip material and location of rumble strips on the shoulder If the designer determines that gaps are needed in the rumble strips due to bicycle use of the road, then follow the requirement shown in FHWA Technical Advisory T5040.39, or latest version. A detail of the spacing shall be included in the plans.

WHEN INSTALLING RAISED OR PROFILE EDGELINE RUMBLE STRIPS:

- 11. Raised rumble strips consisting of non-reflective raised traffic buttons may be used. Non-reflective raised traffic buttons can be affixed to asphalt or concrete with bitumen or adhesives, as per the manufacturer's recommendations.
- 12. Non-reflective traffic buttons shall be placed adjacent to the pavement marking delineating the edgeline when used as a rumble strip. The color of the button should match the color of the adjacent edgeline marking (white or yellow). The buttons will be paid for under Item 672, "Raised Pavement Markers." Non-reflective traffic buttons must meet the requirements of DMS-4300.
- 13. Non-reflective traffic buttons shall not be placed across exit or entrance ramps, acceleration and deceleration lanes, crossovers, gore areas or intersections with other roadways.
- 14. Breaks in edgeline rumble strips using raised traffic buttons shall occur at least 50 feet and no more than 150 feet in advance of bridges, railroad crossing, intersections and driveways with high usage of large trucks when installed on conventional highways.
- 15. The minimum distance between the edgeline and the buttons should be used if the shoulder is less than 8 feet in width.
- 16. Raised profile thermoplastic markings used as edgelines may substitute for buttons.





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GENERAL NOTES

1. Transverse or in-lane rumble strips should only be used at high incident and special geometric locations. These special geometric locations may include: approaches to rural, high speed signalized or Stop -controlled intersections with sight restrictions and/or high crash rates, approaches to unexpected urban intersections, approaches to newly installed Stop or signalized controlled intersections, approaches to toll plazas, approaches to hazardous horizontal curves, and approaches to railroad grade crossings.

2. When used, the rumble strips shall be placed 200 feet prior to and after the placement of the warning device.

3. The use of rumble strips should not be widespread or used indiscriminately.

4. Preformed black raised rumble strips should be used. They should be installed in accordance with the manufacturer's recommendations.

5. A list of approved, preformed raised rumble strips can be obtained from the Traffic Operations Division.

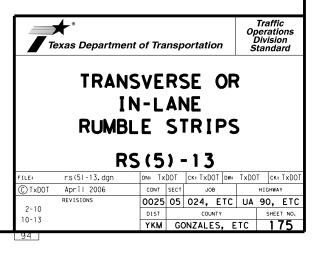
6. Consideration should be given to noise levels when in -lane or transverse rumble strips are installed near residential areas, schools, churches, etc.

7. The use of the "Rumble Strips Ahead" sign may be used in advance of in -lane or transverse rumble strips, based on engineering judgement. This sign is typically not necessary for rumble strip installations built to the guidelines on this standard sheet. When used, this sign should be spaced in advance of the rumble strips based on the guidelines for advance placement of warning sign included in the "Texas Manual on Uniform Traffic Control Devices".



8. Consideration should be given to bicyclists. A 12 inch gap from the edge line may be used to accommodate bicyclists when a usable shoulder is not available. Additional gaps in the in -lane or transverse rumble strips are not recommended since they could cause motorists to swerve to avoid the rumble strips.

9. Other signs can be used as conditions warrant.



I. STORMWATER POLLUTION PREVENTION	III. CULTURAL RESOURCES	VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES
Texas Pollutant Discharge Elimination System (TPDES) TXR 150000: Stormwater Discharge Permit or Construction General Permit is required for projects with 1 or more acres disturbed soil. Projects with any disturbed soil must protect for erosion and sedimentation in accordance with Item 506. If applicable list MS4 operator that may receive discharges from this project. MS4 operator should be notified prior to construction activities		Refer to TxDOT Standard Specifications in the event potentially contaminated materials are observed, such as dead or distressed vegetation, trash disposal areas, drums, canisters, barrels, leaching or seepage of substances, unusual smells or odors, or stained soil, cease work in the area and contact the Engineer immediately.
Prevent stormwater pollution erosion and sedimentation in accordance with TPDES Permit TXR 150000.		Does the project involve any bridge class structure rehabilitation or replacements (bridge class structures not including box culverts)? Yes No
Comply with the SW3P and revise when necessary to control pollution or as required by the Engineer.		No further action required.
Post Construction Site Notice (CSN) with SW3P information on or near the site, accessible to the public and TCEQ, EPA, or other inspectors.		
When Contractor project specific locations (PSL) increase disturbed soil area to 5 acres or more, sumbit Notice of Intent (NOI) to TCEQ and Engineer.		
MS4 Operator(s):	IV. VEGETATION RESOURCES	
No Additional Comments	Preserve native vegetation to the extent practical. Refer to TxDOT Standard Specifications 162, 164, 192, 193, 506, 730, 751, and 752 in order to comply with requirements for invasive species, beneficial landscaping and tree/brush removal.	No Additional Comments
II. WORK IN OR NEAR STREAMS, WATERBODIES AND WETLANDS	No Additional Comments	
United States Army Corps of Engineers (USACE) Permit is required for filling, dredging, excavating or other work in water bodies, rivers, creeks, streams, wetlands or wet areas. The Contractor must adhere to all of the terms and general conditions associated with the following permit(s). If additional work not represented in the plans is required, contact the Engineer immediately.		VII. GENERAL NOTES
No USACE Permit Required		
 Work is authorized by the USACE under a Nationwide Permit without a Pre-Construction Notification (PCN). Project specific permit was not issued by USACE, therefore is not in the plan set. Work is authorized by the USACE under a Nationwide Permit with a Pre-Construction Notification (PCN). The project specific permit issued by the USACE is included in the plan set. Work is authorized by the USACE under a Individual Permit (IP). The project specific permit issued by the USACE is included in the plan set. Work would be authorized by the USACE under a Individual Permit (IP). The project specific permit issued by the USACE is included in the plan set. Work would be authorized by the USACE. The project specific permit issued by the USACE or Nationwide Permit will be provided to the contractor. United States Coast Guard (USCG) Permit is required for projects that involve the construction or modification (including changes to lighting) of a bridge or causeway across a water body determined to be navigable by the United States Coast Guard (USCG) under Section 9 of the Rivers and Harbors Act. If additional work not represented in the plans is required, contact the Engineer immediately. No United States Coast Guard (USCG) Coordination Required 	 V. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECIES, CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES AND MIGRATORY BIRDS If any of the listed species below are observed, cease work in the area, do not disturb species or habitat and contact the Engineer immediately. The work may not remove active nests (from bridges, structures, or vegetation adjacent to the roadway, etc.) during nesting season (February 15 to October 1). If removal of structures or vegetation is necessary during the nesting season, the Contractor shall conduct a bird survey no more than 3 days in advance of the clearing/demolish start date. All bird surveys shall be conducted by a Field Biologist and adhere to the guidance document "Avoiding Migratory Birds and Handling Potential Violations" found in the TxDOT Environmental Compliance Toolkits at the time of the survey. (See below for Field Biologist and Ornithologist qualifications) No Additional Comments 	TxDOT has determined that a USACE Nationwide or Individual Permit is not necessary for the project since all work shall be conducted outside the USACE jurisdictional areas. Any impacts to these jurisdictioanl areas by the contractor without a USACE permit will be the responsibility of the contrator. If the contractor deems it necessary to impact the USACE jurisdictional areas, then it becomes the contractor's entire responsibility to consult with the USACE pertaining to the need for a Nationwide or Individual Permit. TxDOT will then hold the contractor responsible for following all conditions of the approved Permit.
United States Coast Guard (USCG) Permit		
United States Coast Guard (USCG) Exemption		
Onited builds coust Guild (Obco) Excliption		TxDOT
Best Management Practices		Texas Department of Transportation
Erosion Sedimentation Post Construction TSS		ENVIRONMENTAL PERMITS,
Temporary Vegetation Silt Fence Vegetative Filter Strips		ISSUES AND COMMITMENTS
Vegetation Lined Ditches Rock Filter Dam Vegetation Lined Ditches		
Sodding Sand Bag Berm Grassy Swales		EPIC
No Additional Comments	Field Biologist, Ornithologist – a field biologist is defined as an individual qualified to perform field investigations, presence/absence surveys and habitat surveys for protected avian species or species of concern. A mandatory bachelor's degree in biology or a related science is required.	FILE: EPIC Sheet.dgn DN: CK: DW: CK: (C) TxDOT: March 2017 cont SECT JOB HIGHWAY
	At a minimum, the Field Biologist, Ornithologist, shall have completed and reported a minimum of three presence/absence and habitat surveys for protected avian species in the past five years. A minimum of three projects must have been conducted in Texas. Surveys shall have been	REVISIONS 0025 05 024, ETC. UA 90, ETC.
	performed for documentation of species in accordance with a protocol approved by USFWS or TPWD, or following generally accepted methodologies.	Version 13.1 DIST COUNTY SHEET NO. YKM GONZALES, ETC. 176

Crossing Type: ** NONE RR Company Owning Track at Crossing: <u>UNION PACIFIC RAILROAD</u> Operating RR Company at Track: <u>UNION PACIFIC RAILROAD</u> RR MP: from 69.700 to 72.840 RR Subdivision: <u>GIDDINGS</u> City: <u>WINCHESTER</u> County: <u>FAYETTE</u> CSJ at this Crossing: <u>0334-07-007</u> Highway/Roadway name crossing the railroad: <u>FM 448</u> * of regularly scheduled trains per day at this crossing: <u>N/A</u> * of switching movements per day at this crossing: <u>N/A</u> % of estimated contract cost of work within railroad ROW: N/A	Not Required Required: Contact Information for	Construction Inspection:
Scope of Work at this Crossing to Be Performed by State Contractor: <u>SEALCOAT THE ROADWAY RUNNING PARALLEL TO THE RAILROAD. ALL WORK.</u> <u>EQUIPMENT & TCP WILL BE OUTSIDE OF RAILROAD RIGHT OF WAY.</u>		
Scope of Work at this Crossing to Be Performed by Railroad Company: NONE	IV. <u>CONSTRUCTION WORK TO BE PERF</u> On this project, construction work t Required Not Required	DRMED BY THE RAILROAD b be performed by a railroad company is:
** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian, or Closed/Abandoned OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)		be performed by the Railroad Company. work done by the Railroad Company
NONE		
	V. RAILROAD INSURANCE REQUIREMEN Railroad reference number shall be p	
* of Days of Railroad Flagging Expected: <u>N/A</u>	The Contractor shall confirm the ins the Railroad as the insurance limits	surance requirements with are subject to change without notice.
On this project, night or weekend flagging is:	more than one Railroad Company is op where several Railroad Companies are	
Flagging services will be provided by: Railroad Company: TxDOT will pay flagging invoices Railroad Company at no cost, because this railroad exists via TxDOT spur permit Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT	No direct compensation will be made insurance coverages shown below or a incidental to the various bid items.	
Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized.	Type of Insurance	Amount of Coverage (Minimum)
If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.	Workers Compensation	\$500,000 / \$500,000 / \$500,000
Contact Information for Flagging:	Commercial General Liability	\$2,000,000 / \$4,000,000
Call Center 877-315-0513, Select #1 for flagging - UP.request@nrssinc.net Call Center 877-984-6777	Business Automobile	\$2,000,000 combined single limit
BNSF - BNSF.info@railpros.com Call Center 877-315-0513, Select #1 for flagging	Railroad Prote	ective Liability
	Not Required	
_		
KCS - KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging	Non - Bridge Projects	\$2,000,000 / \$6,000,000
KCS - KCS.info@roilpros.com	Non - Bridge Projects	\$2,000,000 / \$6,000,000 \$5,000,000 / \$10,000,000

DATE: FILE:

NTRACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

his project, an ROE agreement is: ot Required

equired: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3) Required: UPRR Maintenance Consent Letter. TxDOT CST to assist.

Required: Contractor to obtain (see Item 5, Article 8.4)

ith the following railroad companies:

iew previously approved ROE Agreement templates agreed upon between State and Railroad, see:

://www.txdot.gov/inside-txdot/division/rail/samples.html

oved ROE Agreement templates are not to be modified by the Contractor.

ractor shall not operate within Railroad Right of Way without an executed truction & Maintenance Agreement between the State and the Railroad and xecuted ROE agreement between the Contractor and the Railroad if required roject.

RAILROAD COORDINATION MEETING

this project, a Railroad Coordination Meeting is: Not Required

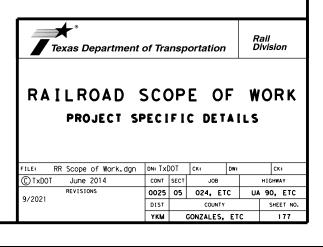
Item 5, Article 8.1 for more details.

SUBCONTRACTORS

tractor shall not subcontract work without written consent of TxDOT. contractors are required to maintain the same insurance coverage required of the Contractor.

MERGENCY NOTIFICATION

Case of Railroad Emergency II: UNION PACIFIC RAILROAD ilroad Emergency Line at 888-877-7267 cation: Parallel to various crossings, near DOT 744737C Milepost: from 69.700 to 72.840 bdivision: GIDDINGS



I. WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED)	Contractor must incorporate Construc construction schedule.	ction Inspection into anticipated
DOT #: <u>416429T</u>		
Crossing Type: <u>** AT GRADE</u> RR Company Owning Track at Crossing: UNION PACIFIC RAILROAD	Not Required	
Operating RR Company at Track: <u>UNION PACIFIC RAILROAD</u>	Required: Contact Information fo	or Construction Inspection:
RR MP: 101.250 RR Subdivision: SMITHVILLE		
City: FAYETTEVILLE		
County: FAYETTE		
CSJ at this Crossing: <u>1264-01-016</u> Highway/Roadway name crossing the railroad: FM 955		
# of regularly scheduled trains per day at this crossing: 4		
# of switching movements per day at this crossing: <u>0</u> % of estimated contract cost of work within railroad ROW: 1%		
Scope of Work at this Crossing to Be Performed by State Contractor:		
<u>SEALCOAT THE ROADWAY UP TO THE RAILROAD CROSSING.</u> DURING THE ONE LANE TWO-WAY TRAFFIC CONTROL OPERATIONS A RAILROAD FLAGGER		
AND CONSTRUCTION FLAGGER MUST BE PRESENT FOR THE DURATION OF THE WORK		
THROUGH UPRR RIGHT OF WAY.		
Scope of Work at this Crossing to Be Performed by Railroad Company:		
NONE	IV. CONSTRUCTION WORK TO BE PER	to be performed by a railroad company is:
	Required	to be performed by a railroad company is:
	X Not Required	
** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian,	_	
or Closed/Abandoned		to be performed by the Railroad Company. ny work done by the Railroad Company
	prior to the work being performed.	
I. OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)	p	
I. OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)		- 117.0
	V. RAILROAD INSURANCE REQUIREM	ENTS
NONE		
NONE	V. RAILROAD INSURANCE REQUIREM Railroad reference number shall be The Contractor shall confirm the in	provided by TxDOT CST or DO. nsurance requirements with
NONE III. <u>FLAGGING & INSPECTION</u> # of Days of Railroad Flagging Expected: <u>3</u>	V. RAILROAD INSURANCE REQUIREM Railroad reference number shall be The Contractor shall confirm the in the Railroad as the insurance limit	provided by TxDOT CST or DO. nsurance requirements with ts are subject to change without notice.
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On this project, an ROE agreement is: Not Required

Required: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3) 🗙 Required: UPRR Maintenance Consent Letter. TxDOT CST to assist.

Approved ROE Agreement templates are not to be modified by the Contractor.

on project.

Not Required

🗙 Required

VIII. SUBCONTRACTORS

	Railroad Protect	ive Liability
	Not Required	
X	Non - Bridge Projects	\$2,000,000 / \$6,000,000
	Bridge Projects	\$5,000,000 / \$10,000,000
	Other	

OTHERS

VI. CONTRACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

Required: Contractor to obtain (see Item 5, Article 8.4)

With the following railroad companies:

To view previously approved ROE Agreement templates agreed upon between the State and Railroad, see:

http://www.txdot.gov/inside-txdot/division/rail/samples.html

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed ROE agreement between the Contractor and the Railroad if required

VII. RAILROAD COORDINATION MEETING

On this project, a Railroad Coordination Meeting is:

See Item 5, Article 8.1 for more details.

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are required to maintain the same insurance coverage as required of the Contractor.

IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency COII: UNION PACIFIC RAILROAD Railroad Emergency Line at 888-877-7267 Location: DOT: 416429T RR Milepost: 101.250 Subdivision: SMITHVILLE

Texas Department	of Tra	nsp	ortatio	n	Rail Division	
RAILROAD S						ζ
		-				
FILE: RR Scope of Work.dgn	dn: TxI		Ск:	Dw:	CK:	
FILE: RR Scope of Work.dgn	dn: Tx1 cont					
© TxDOT June 2014 REVISIONS			CK:	Dw:	СК:	
©TxDOT June 2014	CONT	DOT SECT	CK: JOB	Dw: TC	CK: HIGHWAY	

HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT #: NONE Crossing Type: ** NONE RR Company Owning Track at Crossing: UNION PACIFIC RAILROAD Operating RR Company at Track: UNION PACIFIC RAILROAD Operating RR Company at Track: UNION PACIFIC RAILROAD RR MP: NEAR 72.310 RR Subdivision: CUERO City: YOAKUM County: DEWITT CSJ at this Crossing: 0346-11-009 Highway/Roadway name crossing the railroad: SH 111 * of regularly scheduled trains per day at this crossing: N/A	Contractor must incorporate Construct construction schedule. Image: Not Required Image: Required: Contact Information for		0n t N R X F F
 * of switching movements per day at this crossing: <u>N/A</u> * of estimated contract cost of work within railroad ROW: <u>N/A</u> Scope of Work at this Crossing to Be Performed by State Contractor: <u>SEALCOAT THE ROADWAY RUNNING PERPENDICULAR TO THE RAILROAD. ALL WORK,</u> <u>& EQUIPMENT WILL BE OUTSIDE OF RAILROAD RIGHT OF WAY. BUT DURING THE ONE</u> <u>LANE TWO-WAY TRAFFIC CONTROL OPERATIONS A RAILROAD FLAGGER & CONSTRUCTION</u> <u>FLAGGER MUST BE PRESENT FOR DURATION OF THE WORK THROUGH UPRR ROW.</u> Scope of Work at this Crossing to Be Performed by Railroad Company: NONE 	IV. CONSTRUCTION WORK TO BE PERF		To v the http Appr Cont Cons an e on p
<pre>** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian, or Closed/Abandoned</pre> . OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)	Required	o be performed by a railroad company is: o be performed by the Railroad Company. y work done by the Railroad Company	VII. <u>F</u> On
NONE	V. RAILROAD INSURANCE REQUIREMEN	NTS	See
I. <u>FLAGGING & INSPECTION</u> * of Days of Railroad Flagging Expected: <u>3</u> On this project, night or weekend flagging is: ☐ Expected Mot Expected Flagging services will be provided by: ☐ Railroad Company: TxDOT will pay flagging invoices ☐ Railroad Company at no cost, because this railroad exists via TxDOT spur permit Moutiside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT	Railroad reference number shall be provided by TxDOT CST or DO. The Contractor shall confirm the insurance requirements with the Railroad as the insurance limits are subject to change without notice. Insurance policies must be issued for and on behalf of the Railroad. Where more than one Railroad Company is operating on the same right of way or where several Railroad Companies are involved and operate on their own separate rights of way, provide separate insurance policies in the name of each Railroad Company. No direct compensation will be made to the Contractor for providing the insurance coverages shown below or any deductibles. These costs are incidental to the various bid items.		VIII Con Sub as IX. <u>I</u> Co
Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor. Contact Information for Flagging:	Type of Insurance Workers Compensation Commercial General Liability	Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000	Ro LO RR Su
 UPRR - UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-6777 	Business Automobile	\$2,000,000 combined single limit	
BNSF - BNSF.info@railpros.com Call Center 877-315-0513, Select #1 for flagging	Railroad Protective Liability		
 KCS - KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630 	Not Required Non - Bridge Projects Bridge Projects	\$2,000,000 / \$6,000,000 \$5,000,000 / \$10,000,000	
OTHERS	0ther		

CTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

project, an ROE agreement is: quired

ed: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3) red: UPRR Maintenance Consent Letter. TxDOT CST to assist.

ed: Contractor to obtain (see Item 5, Article 8.4)

the following railroad companies:

previously approved ROE Agreement templates agreed upon between e and Railroad, see:

ww.txdot.gov/inside-txdot/division/rail/samples.html

ROE Agreement templates are not to be modified by the Contractor.

or shall not operate within Railroad Right of Way without an executed tion & Maintenance Agreement between the State and the Railroad and ted ROE agreement between the Contractor and the Railroad if required ct.

ROAD COORDINATION MEETING

project, a Railroad Coordination Meeting is: quired

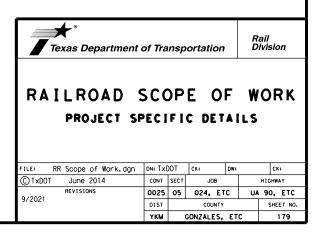
5, Article 8.1 for more details.

ONTRACTORS

or shall not subcontract work without written consent of TxDOT. actors are required to maintain the same insurance coverage red of the Contractor.

GENCY NOTIFICATION

se of Railroad Emergency UNION PACIFIC RAILROAD oad Emergency Line at 888-877-7267 ion: Perpendicular & near DOT 746757V lepost: near 72,310 vision: CUERO



<pre>I. WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT *: 743307N Crossing Type: ** HIGHWAY UNDERPASS RR Company Owning Track at Crossing: UNION PACIFIC RAILROAD Operating RR Company at Track: UNION PACIFIC RAILROAD RR MP: 95.390 RR Subdivision: GLIDDEN City: WEIMAR County: COLORADO CSJ at this Crossing: 0026-04-049 Highway/Roadway name crossing the railroad: US 90 Highway/Roadway name crossing the railroad: US 90</pre>	Contractor must incorporate Construction schedule. Not Required Required: Contact Information for		VI. <u>CONTRAC</u> On this pr Not Required Required Required Required With th
<pre># of regularly scheduled trains per day at this crossing: 8 # of switching movements per day at this crossing: 0 % of estimated contract cost of work within railroad ROW: 1% Scope of Work at this Crossing to Be Performed by State Contractor: SEALCOAT THE ROADWAY UNDER THE RAILROAD CROSSING. WORK ALSO RUNS PARALLEL FROM MP 97.190 TO 99.140. BUT DURING THE ONE LANE TWO-WAY TRAFFIC CONTROL OPERATIONS A RAILROAD FLAGGER & CONSTRUCTION FLAGGER MUST BE PRESENT FOR THE DURATION OF TCP THROUGH UPRR RIGHT OF WAY. Scope of Work at this Crossing to Be Performed by Railroad Company: NONE</pre>	IV. <u>CONSTRUCTION WORK TO BE PERF</u> On this project, construction work t Required	ORMED BY THE RAILROAD to be performed by a railroad company is:	To view pr the State http://www Approved F Contractor Constructi an execute on project
** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian, or Closed/Abandoned II. OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)	X Not Required Coordinate with TxDOT for any work t TxDOT must issue a work order for an prior to the work being performed.	to be performed by the Railroad Company. By work done by the Railroad Company	VII. <u>RAILR</u> On this p Not Req
NONE	V. RAILROAD INSURANCE REQUIREME	NTS	🗶 Require
<pre>III. FLAGGING & INSPECTION * of Days of Railroad Flagging Expected: 3 On this project, night or weekend flagging is: Expected Not Expected Flagging services will be provided by: Railroad Company: TxDOT will pay flagging invoices Railroad Company at no cost, because this railroad exists via TxDOT spur permit Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT</pre>	Insurance policies must be issued f more than one Railroad Company is o where several Railroad Companies ar separate rights of way, provide sep each Railroad Company.	assurance requirements with is are subject to change without notice. For and on behalf of the Railroad. Where operating on the same right of way or e involved and operate on their own parate insurance policies in the name of to the Contractor for providing the any deductibles. These costs are	See Item VIII. <u>SUBCO</u> Contracto Subcontra as requir IX. <u>EMERG</u> In Case Call: U Railroo
Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized.	Type of Insurance	Amount of Coverage (Minimum)	Locatio
If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.	Workers Compensation	\$500,000 / \$500,000 / \$500,000	RR Mile Subdivi
Contact Information for Flagging:	Commercial General Liability	\$2,000,000 / \$4,000,000	
 Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-6777 	Business Automobile	\$2,000,000 combined single limit	
BNSF - BNSF.info@railpros.com Call Center 877-315-0513, Select #1 for flagging	Railroad Prot	ective Liability	
 KCS - KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630 OTHERS	 Not Required Non - Bridge Projects Bridge Projects Other 	\$2,000,000 / \$6,000,000 \$5,000,000 / \$10,000,000	
- Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630	Bridge Projects		

CTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

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the following railroad companies:

reviously approved ROE Agreement templates agreed upon between and Railroad, see:

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ROAD COORDINATION MEETING

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ONTRACTORS

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GENCY NOTIFICATION

e of Railroad Emergency UNION PACIFIC RAILROAD oad Emergency Line at 888-877-7267 on: DOT: 743307N epost: 95.390 vision: GLIDDEN

Texas Department of	of Tra	nsp	ortation		Rail Division
RAILROAD S					
FILE: RR Scope of Work.dgn	dn: Tx[TOC	CK:	Dw:	CK:
© TxDOT June 2014	CONT	SECT	JOB		HIGHWAY
REVISIONS 9/2021	0025	05	024, ET	C	UA 90, ETC
9/2021	DIST		COUNTY		SHEET NO.

NORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT *: NONE Crossing Type: ** NONE RR Company Owning Track at Crossing: UNION PACIFIC RAILROAD	Contractor must incorporate Constru construction schedule. Not Required Required: Contact Information f		VI. <u>CONTR</u> On this X Not Re
Operating RR Company at Track: <u>UNION PACIFIC RAILROAD</u> RR MP: from 85.770 to 87.490 RR Subdivision: <u>GLIDDEN</u> City: <u>COLUMBUS</u> County: COLORADO			🗌 Requi
CSJ at this Crossing: <u>0026-06-037</u> Highway/Roadway name crossing the railroad: <u>US 90</u> * of regularly scheduled trains per day at this crossing: <u>N/A</u> * of switching movements per day at this crossing: <u>N/A</u> % of estimated contract cost of work within railroad ROW: <u>N/A</u>			_ Requi With
Scope of Work at this Crossing to Be Performed by State Contractor: <u>SEALCOAT THE ROADWAY RUNNING PARALLEL TO THE RAILROAD. ALL WORK.</u> <u>EQUIPMENT & TCP WILL BE OUTSIDE OF RAILROAD RIGHT OF WAY.</u>			To view the Star http://w
			Approved
Scope of Work at this Crossing to Be Performed by Railroad Company: NONE	IV. <u>CONSTRUCTION WORK TO BE PER</u> On this project, construction work Required	RFORMED BY THE RAILROAD to be performed by a railroad company is:	Contrac Construc an execu on proje
** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian, or Closed/Abandoned		to be performed by the Railroad Company. any work done by the Railroad Company	VII. RAIL
OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)			On this X Not F
NONE	V. RAILROAD INSURANCE REQUIREN	ENTS	Requ
			See It
	Railroad reference number shall b The Contractor shall confirm the	insurance requirements with	VIII. SUB
 * of Days of Railroad Flagging Expected: <u>N/A</u> On this project, night or weekend flagging is: Expected 	Insurance policies must be issued more than one Railroad Company is where several Railroad Companies of	its are subject to change without notice. for and on behalf of the Railroad. Where operating on the same right of way or are involved and operate on their own	Contrac Subcont as requ
Not Expected	separate rights of way, provide so each Railroad Company.	eparate insurance policies in the name of	
Flagging services will be provided by: Railroad Company: TxDOT will pay flagging invoices Railroad Company at no cost, because this railroad exists via TxDOT spur permit		de to the Contractor for providing the r any deductibles. These costs are ns.	
Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT			Calls
Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not	Type of Insurance	Amount of Coverage (Minimum)	
ready for scheduled flaggers, any flagging charges will be paid by Contractor.	Workers Compensation	\$500,000 / \$500,000 / \$500,000	RR M Subd
Contact Information for Flagging:	Commercial General Liability	\$2,000,000 / \$4,000,000	
Call Center 877-315-0513, Select #1 for flagging - UP.request@nrssinc.net Call Center 877-984-6777	Business Automobile	\$2,000,000 combined single limit	
BNSF - BNSF.info@railpros.com	Railroad Pro	Dtective Liability	
Call Center 877-315-0513, Select #1 for flagging	Not Required		
Call Center 877-315-0513, Select #1 for flagging	Non - Bridge Projects	\$2,000,000 / \$6,000,000	
- Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630	Bridge Projects	\$5,000,000 / \$10,000,000	
OTHERS	0ther		
			1

NTRACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

nis project, an ROE agreement is: t Required

equired: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3) Required: UPRR Maintenance Consent Letter. TxDOT CST to assist.

equired: Contractor to obtain (see Item 5, Article 8.4)

ith the following railroad companies:

iew previously approved ROE Agreement templates agreed upon between State and Railroad, see:

://www.txdot.gov/inside-txdot/division/rail/samples.html

oved ROE Agreement templates are not to be modified by the Contractor.

ractor shall not operate within Railroad Right of Way without an executed truction & Maintenance Agreement between the State and the Railroad and xecuted ROE agreement between the Contractor and the Railroad if required roject.

RAILROAD COORDINATION MEETING

this project, a Railroad Coordination Meeting is: Not Required

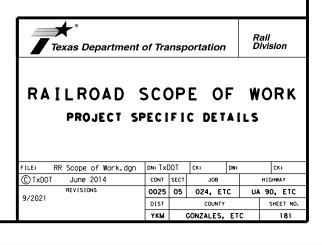
Item 5, Article 8.1 for more details.

UBCONTRACTORS

tractor shall not subcontract work without written consent of TxDOT. contractors are required to maintain the same insurance coverage required of the Contractor.

MERGENCY NOTIFICATION

Case of Railroad Emergency II: UNION PACIFIC RAILROAD ilroad Emergency Line at 888-877-7267 cation: Parallel to various crossings, near DOT 743293H Milepost: from 85.770 to 87.490 bdivision: GLIDDEN



Ι.	WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT #: 743277Y Crossing Type: ** HIGHWAY OVERPASS RR Company Owning Track at Crossing: UNION PACIFIC RAILROAD Operating RR Company at Track: UNION PACIFIC RAILROAD	Contractor must incorporate Construction schedule. Not Required Required: Contact Information for		VI. <u>CONTRACT</u> On this pro Not Requir
	RR MP: 82.850 RR Subdivision: <u>GLIDDEN</u> City: <u>COLUMBUS</u> County: COLORADO			🗌 Required:
	CSJ at this Crossing: <u>0027-01-048</u> Highway/Roadway name crossing the railroad: <u>US 90</u> # of regularly scheduled trains per day at this crossing: <u>16</u> # of switching movements per day at this crossing: <u>0</u> % of estimated contract cost of work within railroad ROW: <u>1%</u>			☐ Required: With the
	Scope of Work at this Crossing to Be Performed by State Contractor: <u>SEALCOAT THE ROADWAY OVER THE RAILROAD CROSSING.</u> <u>NO CONTRA-FLOW OPERATIONS WILL BE USED.</u>			To view pre the State a http://www.
	Scope of Work at this Crossing to Be Performed by Railroad Company: NONE	<pre>IV. CONSTRUCTION WORK TO BE PERF On this project, construction work t</pre>	ORMED BY THE RAILROAD to be performed by a railroad company is:	Approved RO Contractor Constructio an executed on project.
	** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian, or Closed/Abandoned	Not Required Coordinate with TxDOT for any work t TxDOT must issue a work order for an prior to the work being performed.	o be performed by the Railroad Company. y work done by the Railroad Company	VII. <u>RAILRO</u>
II	. OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)			Not Requi
	NONE	V. RAILROAD INSURANCE REQUIREME	NTS	X Required See Item 5
II	I. FLAGGING & INSPECTION	Railroad reference number shall be The Contractor shall confirm the in	· _	VIII. SUBCON
	 * of Days of Railroad Flagging Expected: <u>3</u> On this project, night or weekend flagging is: Expected Not Expected 	the Railroad as the insurance limit Insurance policies must be issued f more than one Railroad Company is o where several Railroad Companies ar	s are subject to change without notice. or and on behalf of the Railroad. Where perating on the same right of way or	Contractor Subcontract as required
	Flagging services will be provided by: Railroad Company: TxDOT will pay flagging invoices Railroad Company at no cost, because this railroad exists via TxDOT spur permit Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT	No direct compensation will be made insurance coverages shown below or incidental to the various bid items		In Case Call: UN
	Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not	Type of Insurance	Amount of Coverage (Minimum)	Railroad Location RR Milep
	ready for scheduled flaggers, any flagging charges will be paid by Contractor. Contact Information for Flagging:	Workers Compensation	\$500,000 / \$500,000 / \$500,000	Subdivis
	WPRR - UP.info@railpros.com	Commercial General Liability	\$2,000,000 / \$4,000,000	
	Call Center 877-315-0513, Select #1 for flagging - UP.request@nrssinc.net Call Center 877-984-6777	Business Automobile	\$2,000,000 combined single limit	
	BNSF - BNSF.info@railpros.com Call Center 877-315-0513, Select #1 for flagging	Railroad Prot	ective Liability	
	KCS - KCS.info@railpros.com	Not Required		
	Call Center 877-315-0513, Select #1 for flagging - Bottom Line On-Track Safety Services	🔀 Non – Bridge Projects	\$2,000,000 / \$6,000,000	
	bottomline076@aol.com, 903-767-7630	Bridge Projects	\$5,000,000 / \$10,000,000	
	OTHERS	0ther		

TRACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

is project, an ROE agreement is: t Required

quired: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3) quired: UPRR Maintenance Consent Letter. TxDOT CST to assist.

quired: Contractor to obtain (see Item 5, Article 8.4)

th the following railroad companies:

ew previously approved ROE Agreement templates agreed upon between tate and Railroad, see:

//www.txdot.gov/inside-txdot/division/rail/samples.html

ved ROE Agreement templates are not to be modified by the Contractor.

actor shall not operate within Railroad Right of Way without an executed ruction & Maintenance Agreement between the State and the Railroad and ecuted ROE agreement between the Contractor and the Railroad if required oject.

AILROAD COORDINATION MEETING

nis project, a Railroad Coordination Meeting is: t Required

Item 5, Article 8.1 for more details.

UBCONTRACTORS

ractor shall not subcontract work without written consent of TxDOT. ontractors are required to maintain the same insurance coverage equired of the Contractor.

MERGENCY NOTIFICATION

Case of Railroad Emergency I: UNION PACIFIC RAILROAD Troad Emergency Line at 888-877-7267 ation: DOT: 743277Y Milepost: 82.850 adivision: GLIDDEN

Texas Department	of Tra	nsp	ortatio	on		Pail Division
RAILROAD	sco)P	EC	DF	W	ORK
PROJECT SP	PECI	FI	C DE	TAI	LS	
PROJECT SF	PECI		C DE	TA I	LS	Ск:
				Dw:	LS	
FILE: RR Scope of Work, dgn © TxDOT June 2014 REVISIONS	DN: Tx	DOT	CK:	DW:		CK:
FILE: RR Scope of Work, dgn © TxDOT June 2014	DN: TX CONT	DOT	CK: JOE	DW: B ETC		CK: HIGHWAY

I. WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED)	Contractor must incorporate Construction schedule.	tion Inspection into anticipated	VI. <u>CONTRACT</u>
DOT *: NONE	Not Required		Not Requir
Crossing Type:** <u>NONE</u> RR Company Owning Track at Crossing: UNION PACIFIC RAILROAD			
Operating RR Company at Track: <u>UNION PACIFIC RAILROAD</u> RR MP: 67,580	Required: Contact Information for	r Construction Inspection:	🗌 Required:
RR Subdivision: <u>GLIDDEN</u>			🗶 Required:
City: <u>EAGLE LAKE</u> County: COLORADO			
CSJ at this Crossing:3205-03-014			🗌 Required:
Highway/Roadway name crossing the railroad: <u>FM 3013</u> # of regularly scheduled trains per day at this crossing: N/A			With the
# of switching movements per day at this crossing: N/A			
% of estimated contract cost of work within railroad ROW: $_{\rm N/A}$			
Scope of Work at this Crossing to Be Performed by State Contractor:			To view pre the State a
SEALCOAT THE ROADWAY RUNNING PERPENDICULAR TO THE RAILROAD. NO WORK OR			
EQUIPMENT IN RAILROAD RIGHT OF WAY. BUT THE TCP WILL EXTEND THROUGH THE RAILROAD CROSSING.			http://www.
			Approved RO
			Contractor Constructio
Scope of Work at this Crossing to Be Performed by Railroad Company: NONE	IV. CONSTRUCTION WORK TO BE PERF		an executed on project.
	On this project, construction work t	o be performed by a railroad company is:	on project.
	X Not Required		
** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian,			
or Closed/Abandoned	TxDOT must issue a work order for an	o be performed by the Railroad Company. y work done by the Railroad Company	VII. RAILRO
II. OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)	prior to the work being performed.		On this pro
			🗌 Not Requi
NONE	V. RAILROAD INSURANCE REQUIREME	NTS	🗙 Required
			See Item 5,
	Railroad reference number shall be	· _	
III. <u>FLAGGING & INSPECTION</u>	The Contractor shall confirm the in the Railroad as the insurance limit	surance requirements with s are subject to change without notice.	VIII. SUBCON
# of Days of Railroad Flagging Expected: <u>3</u> On this project, night or weekend flagging is:		or and on behalf of the Railroad. Where	Contractor
Expected	more than one Railroad Company is o where several Railroad Companies ar	perating on the same right of way or e involved and operate on their own	Subcontract as required
Not Expected	separate rights of way, provide sep each Railroad Company.	arate insurance policies in the name of	
Flagging services will be provided by:			IX. EMERGEN
Railroad Company: TxDOT will pay flagging invoices	insurance coverages shown below or	to the Contractor for providing the any deductibles. These costs are	
Railroad Company at no cost, because this railroad exists via TxDOT spur permit	incidental to the various bid items	•	In Case
X Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT			Coll UN
Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized.	Type of Insurance	Amount of Coverage (Minimum)	Railroa Locatio
If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.	Workers Compensation	\$500,000 / \$500,000 / \$500,000	RR Mile
Contact Information for Flagging:			Subdivi
🗶 UPRR - UP.info@railpros.com	Commercial General Liability	\$2,000,000 / \$4,000,000	
Call Center 877-315-0513, Select #1 for flagging	Business Automobile	\$2,000,000 combined single limit	
- UP.request@nrssinc.net Call Center 877-984-6777			
BNSF - BNSF.info@railpros.com	Railroad Prot	ective Liability	
Call Center 877-315-0513, Select #1 for flagging			
🗌 KCS - KCS.info@roilpros.com	Not Required		
Call Center 877-315-0513, Select #1 for flagging	Non - Bridge Projects		
- Bottom Line On-Track Safety Services		\$2,000,000 / \$6,000,000	
bottomline076@aol.com, 903-767-7630	Bridge Projects	\$5,000,000 / \$10,000,000	
OTHERS	0ther		

ACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

project, an ROE agreement is: quired

red: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3) red: UPRR Maintenance Consent Letter. TxDOT CST to assist.

red: Contractor to obtain (see Item 5, Article 8.4)

the following railroad companies:

previously approved ROE Agreement templates agreed upon between e and Railroad, see:

www.txdot.gov/inside-txdot/division/rail/samples.html

ROE Agreement templates are not to be modified by the Contractor.

for shall not operate within Railroad Right of Way without an executed tion & Maintenance Agreement between the State and the Railroad and ted ROE agreement between the Contractor and the Railroad if required ect.

ROAD COORDINATION MEETING

project, a Railroad Coordination Meeting is: equired

1 5, Article 8.1 for more details.

CONTRACTORS

tor shall not subcontract work without written consent of TxDOT. ractors are required to maintain the same insurance coverage ired of the Contractor.

GENCY NOTIFICATION

ose of Railroad Emergency UNION PACIFIC RAILROAD road Emergency Line at 888-877-7267 tion: PERPENDICULAR TO DOT 743818Y ilepost: 67.580 ivision: GLIDDEN

Texas Department	of Tra	nsp	ortatior	,	Rail Division
RAILROAD S					
				A (
FILE: RR Scope of Work.dgn				Dw:	СК:
FILE: RR Scope of Work, dgn ① TxDOT June 2014 REVISIONS	DN: Tx	DOT	CK:	Dw:	CK:
FILE: RR Scope of Work, dgn © TxDOT June 2014	DN: TX CONT	DOT	CK: JOB	Dw: TC	Ск:

NORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED)	Contractor must incorporate Construc	tion Inspection into anticipated	VI. CONTR
DOT #: 023270N	construction schedule.		On this
Crossing Type: ** AT GRADE	X Not Required		X Not Re
RR Company Owning Track at Crossing: <u>BNSF RAILWAY COMPANY</u> Operating RR Company at Track: <u>BNSF RAILWAY COMPANY</u>	Required: Contact Information fo	r Construction Inspection:	🗌 Requi
RR MP: 94.683 RR Subdivision: SEALY YD TX			Requi
City: SEALY			
County: AUSTIN CSJ at this Crossing: 0187-03-074			
Highway/Roadway name crossing the railroad: SH 36			Requ
# of regularly scheduled trains per day at this crossing: <u>38</u>			With
<pre># of switching movements per day at this crossing: 4</pre>			
			To view
Scope of Work at this Crossing to Be Performed by State Contractor:			the Sto
SEALCOAT THE ROADWAY UP TO THE RAILROAD CROSSING.			http://
			Approve
Scope of Work at this Crossing to Be Performed by Railroad Company: FLAGGING	IV. CONSTRUCTION WORK TO BE PERF	ORMED BY THE RAILROAD to be performed by a railroad company is:	Contrac Constru an exec on proj
	X Not Required		
** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian, or Closed/Abandoned	Coordinate with TxDOT for any work t TxDOT must issue a work order for an	o be performed by the Railroad Company.	VII. RAI
	prior to the work being performed.		On thi
OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)			X Not
NONE			Requ
	V. RAILROAD INSURANCE REQUIREME	NTS	
	Railroad reference number shall be	provided by TxDOT CST or DO.	See It
FLAGGING & INSPECTION	The Contractor shall confirm the in	· · ·	VIII. SUB
* of Days of Railroad Flagging Expected: <u>3</u>	the Railroad as the insurance limit	s are subject to change without notice.	
On this project, night or weekend flagging is:		or and on behalf of the Railroad. Where perating on the same right of way or	Contra Subcon
Expected	where several Railroad Companies ar	e involved and operate on their own	as req
Not Expected	separate rights of way, provide sep each Railroad Company.	parate insurance policies in the name of	
Flagging services will be provided by:	No direct companyation will be made	e to the Contractor for providing the	IX. <u>EM</u> E
Railroad Company: TxDOT will pay flagging invoices	insurance coverages shown below or	any deductibles. These costs are	
Railroad Company at no cost, because this railroad exists via TxDOT spur permit	incidental to the various bid items	ð.	In C
X Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT			Call
Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized.	Type of Insurance	Amount of Coverage (Minimum)	Rai I Loca
If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.	Workers Compensation	\$500,000 / \$500,000 / \$500,000	RR M Subd
Contact Information for Flagging:	Commercial General Liability	#2.000.000./ #4.000.000	
UPRR - UP.info@railpros.com		\$2,000,000 / \$4,000,000	
Call Center 877-315-0513, Select #1 for flagging	Business Automobile	\$2,000,000 combined single limit	
- UP.request@nrssinc.net Call Center 877-984-6777		1	
🗙 BNSF - BNSF.info@roilpros.com	Railroad Prot	ective Liability	
Call Center 877-315-0513, Select #1 for flagging			
☐ KCS - KCS.info@railpros.com	Not Required		
Call Center 877-315-0513, Select #1 for flagging			
- Bottom Line On-Track Safety Services	🗙 Non – Bridge Projects	\$2,000,000 / \$6,000,000	
bottomline076@aol.com, 903-767-7630	🗌 Bridge Projects	\$5,000,000 / \$10,000,000	
	0ther		
	I I UTHER		1

ACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

project, an ROE agreement is: equired

red: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3) red: UPRR Maintenance Consent Letter. TxDOT CST to assist.

red: Contractor to obtain (see Item 5, Article 8.4)

the following railroad companies:

previously approved ROE Agreement templates agreed upon between te and Railroad, see:

www.txdot.gov/inside-txdot/division/rail/samples.html

ROE Agreement templates are not to be modified by the Contractor.

tor shall not operate within Railroad Right of Way without an executed ction & Maintenance Agreement between the State and the Railroad and uted ROE agreement between the Contractor and the Railroad if required act.

ROAD COORDINATION MEETING

project, a Railroad Coordination Meeting is: Required

m 5, Article 8.1 for more details.

CONTRACTORS

tor shall not subcontract work without written consent of TxDOT. ractors are required to maintain the same insurance coverage ired of the Contractor.

RGENCY NOTIFICATION

se of Railroad Emergency BNSF RAILWAY COMPANY oad Emergency Line at 800-832-5452 ion: DOT: 023270N lepost: 94.683 vision: SEALY YD TX

Texas Department of RAILROAD S PROJECT SP	SCO)P	ΕO	F	₩	ail ivisic	
	1			I			
FILE: RR Scope of Work.dgn	dn: Tx[TOC	CK:	DW:		СК	:
© TxDOT June 2014	CONT	SECT	JOB			H1GHW	AY
REVISIONS	0025	05	024, ET	C	UA	90,	ETC
9/2021	DIST		COUNTY			SHE	ET NO.
	YKM		GONZALES,	E T	r		84

I. WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) Contractor must incorporate Construction Inspection into anticipated construction schedule. DOT #: 416479W Not Required Crossing Type: ** AT GRADE RR Company Owning Track at Crossing: UNION PACIFIC RAILROAD Required: Contact Information for Construction Inspection: Operating RR Company at Track: UNION PACIFIC RAILROAD RR MP: 133.500 RR Subdivision: SMITHVILLE City: SEALY County: AUSTIN CSJ at this Crossing: 2894-01-014 Highway/Roadway name crossing the railroad: FM 2187 # of regularly scheduled trains per day at this crossing: 4 # of switching movements per day at this crossing: 0 % of estimated contract cost of work within railroad ROW: 1% Scope of Work at this Crossing to Be Performed by State Contractor: SEALCOAT THE ROADWAY UP TO THE RAILROAD CROSSING. DURING THE ONE LANE TWO-WAY TRAFFIC CONTROL OPERATIONS A RAILROAD FLAGGER AND CONSTRUCTION FLAGGER MUST BE PRESENT FOR THE DURATION OF THE WORK THROUGH UPRR RIGHT OF WAY. Scope of Work at this Crossing to Be Performed by Railroad Company: IV. CONSTRUCTION WORK TO BE PERFORMED BY THE RAILROAD NONE On this project, construction work to be performed by a railroad company is: Required X Not Required ** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian, Coordinate with TxDOT for any work to be performed by the Railroad Company. or Closed/Abandoned TxDOT must issue a work order for any work done by the Railroad Company prior to the work being performed. II. OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW) NONE V. RAILROAD INSURANCE REQUIREMENTS Railroad reference number shall be provided by TxDOT CST or DO. III. FLAGGING & INSPECTION The Contractor shall confirm the insurance requirements with the Railroad as the insurance limits are subject to change without notice. # of Days of Railroad Flagging Expected: 3 Insurance policies must be issued for and on behalf of the Railroad. Where On this project, night or weekend flagging is: more than one Railroad Company is operating on the same right of way or Expected where several Railroad Companies are involved and operate on their own separate rights of way, provide separate insurance policies in the name of X Not Expected each Railroad Company. Flagging services will be provided by: No direct compensation will be made to the Contractor for providing the Railroad Company: TxDOT will pay flagging invoices insurance coverages shown below or any deductibles. These costs are incidental to the various bid items. Railroad Company at no cost, because this railroad exists via TxDOT spur permit X Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT Contractor must incorporate flaggers into anticipated construction schedule. Type of Insurance The Railroad requires a 30 day notice if their flaggers are to be utilized. Amount of Coverage (Minimum) If Contractor falls behind schedule due to their own negligence and is not Workers Compensation ready for scheduled flaggers, any flagging charges will be paid by Contractor. \$500,000 / \$500,000 / \$500,000 Contact Information for Flagging: Commercial General Liability \$2,000,000 / \$4,000,000 VPRR - UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging Business Automobile \$2,000,000 combined single limit - UP.request@nrssinc.net Call Center 877-984-6777 BNSF - BNSF.info@railpros.com Railroad Protective Liability Call Center 877-315-0513, Select #1 for flagging Not Required KCS - KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging X Non - Bridge Projects \$2,000,000 / \$6,000,000 - Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630 \square Bridge Projects \$5,000,000 / \$10,000,000 OTHERS 0ther

Not Required

Required: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3) X Required: UPRR Maintenance Consent Letter. TxDOT CST to assist.

Approved ROE Agreement templates are not to be modified by the Contractor.

on project.

Not Required

🗙 Required

VIII. SUBCONTRACTORS

No warranty of any for the conversion m its use.

"Texas Engineering Practice Act". . TxDOT assumes no responsibility ect results or damages resultina fro

si D

this standard i
y TxD0T for any
-- +- ++++ form

٩¢

VI. CONTRACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

On this project, an ROE agreement is:

Required: Contractor to obtain (see Item 5, Article 8.4)

With the following railroad companies:

To view previously approved ROE Agreement templates agreed upon between the State and Railroad, see:

http://www.txdot.gov/inside-txdot/division/rail/samples.html

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed ROE agreement between the Contractor and the Railroad if required

VII. RAILROAD COORDINATION MEETING

On this project, a Railroad Coordination Meeting is:

See Item 5, Article 8.1 for more details.

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are required to maintain the same insurance coverage as required of the Contractor.

IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency COII: UNION PACIFIC RAILROAD Railroad Emergency Line at 888-877-7267 Location: DOT: 416479W RR Milepost: 133,500 Subdivision: SMITHVILLE

Texas Department	of Tra	nsp	ortatio	on		Pail Division	
RAILROAD	500)P	F (DF	W		
PROJECT SP							
		FI					•
PROJECT SP	PECI	FI	C DE	TA			•
PROJECT SP			C DE	DW:	LS	Ск:	
PROJECT SP	DN: TX	FI DOT	C DE	Dw: B ETC	LS	CK: HIGHWAY	

NORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED)	Contractor must incorporate Construct construction schedule.	ion Inspection into anticipated	VI. CON
DOT *: 743435W	X Not Required		X Not
Crossing Type: <u>** AT GRADE</u> RR Company Owning Track at Crossing: <u>KCS RAILWAY</u>			
Operating RR Company at Track: <u>TEXAS MEXICAN RAILWAY</u> RR MP: 931.190	Required: Contact Information for	Construction Inspection:	Req
RR Subdivision: ROSENBERG			Rec
City: EL CAMPO County: WHARTON			
CSJ at this Crossing: 0266-06-049			Red
Highway/Roadway name crossing the railroad: <u>SH 71</u> # of regularly scheduled trains per day at this crossing: 10			wi
# of switching movements per day at this crossing: 0			
% of estimated contract cost of work within railroad ROW: <u>1%</u>			
Scope of Work at this Crossing to Be Performed by State Contractor:			To vi the S
SEALCOAT THE ROADWAY UP TO THE RAILROAD CROSSING.			
			http:
			Appro
			Contr Const
Scope of Work at this Crossing to Be Performed by Railroad Company: FLAGGING	IV. CONSTRUCTION WORK TO BE PERF		an e>
r Laduinu		o be performed by a railroad company is:	on pr
	Required		
** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian,	🗙 Not Required		
or Closed/Abandoned	Coordinate with TxDOT for any work to TxDOT must issue a work order for an	o be performed by the Railroad Company. y work done by the Railroad Company	VII. <u>R</u>
	prior to the work being performed.		On t
OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)			× X
NONE			
	V. RAILROAD INSURANCE REQUIREMEN	NTS	See
	Railroad reference number shall be	provided by TxDOT CST or DO.	500
FLAGGING & INSPECTION	The Contractor shall confirm the in		VIII. S
# of Days of Railroad Flagging Expected: <u>3</u>		s are subject to change without notice.	Cont
On this project, night or weekend flagging is:		or and on behalf of the Railroad. Where berating on the same right of way or	Subc
Expected	where several Railroad Companies and separate rights of way, provide sep	e involved and operate on their own arate insurance policies in the name of	as r
Not Expected	each Railroad Company.		
Flagging services will be provided by: Railroad Company: TxDOT will pay flagging invoices		to the Contractor for providing the	IX. <u>E</u>
Railroad Company at no cost, because this railroad exists via TxDOT spur permit	insurance coverages shown below or incidental to the various bid items		
X Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT			In
			Col Roi
Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized.	Type of Insurance	Amount of Coverage (Minimum)	Loc
If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.	Workers Compensation	\$500,000 / \$500,000 / \$500,000	RR
Contact Information for Flagging:	Commercial General Liability	\$2,000,000,7,\$4,000,000	
UPRR - UP.info@railpros.com		\$2,000,000 / \$4,000,000	
Call Center 877-315-0513, Select #1 for flagging	Business Automobile	\$2,000,000 combined single limit	
- UP.request@nrssinc.net Call Center 877-984-6777			
BNSF - BNSF.info@railpros.com Call Center 877-315-0513, Select #1 for flagging	Railroad Proto	ective Liability	
	Not Required		
KCS - KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging			
- Bottom Line On-Track Safety Services	🗙 Non - Bridge Projects	\$2,000,000 / \$6,000,000	
bottomline076@aol.com, 903-767-7630	Bridge Projects	\$5,000,000 / \$10,000,000	
	A 15 - 1		
OTHERS	Other		

ACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

project, an ROE agreement is: equired

red: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3) red: UPRR Maintenance Consent Letter. TxDOT CST to assist.

red: Contractor to obtain (see Item 5, Article 8.4)

the following railroad companies:

previously approved ROE Agreement templates agreed upon between te and Railroad, see:

www.txdot.gov/inside-txdot/division/rail/samples.html

ROE Agreement templates are not to be modified by the Contractor.

tor shall not operate within Railroad Right of Way without an executed ction & Maintenance Agreement between the State and the Railroad and uted ROE agreement between the Contractor and the Railroad if required act.

ROAD COORDINATION MEETING

project, a Railroad Coordination Meeting is: Required

m 5, Article 8.1 for more details.

CONTRACTORS

tor shall not subcontract work without written consent of TxDOT. ractors are required to maintain the same insurance coverage ired of the Contractor.

RGENCY NOTIFICATION

se of Railroad Emergency KCS RAILWAY oad Emergency Line at 877-527-9464 ion: DOT: 743435W lepost: 931.190 vision: ROSENBERG

Texas Department	of Tra	nsp	ortatio	n		ail Vision	
RAILROAD	sco)P	EC)F	W	ORK	
PROJECT SF	PECI	FI	C DE	TAI	LS		
PROJECT SF		-	C DE	TA I	LS	CK:	
		-			LS		
FILE: RR Scope of Work, dgn © TxDOT June 2014 REVISIONS	DN: Tx	-	Ск:	DW:		CK:	
FILE: RR Scope of Work.dgn © TxDOT June 2014	DN: TX CONT	DOT SECT	CK: JOB	DW: TC		CK: HIGHWAY	

ORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, IGHWAY UNDERPASS,PEDESTRIAN, OR CLOSED/ABANDONED)	Contractor must incorporate Construc construction schedule.	tion Inspection into anticipated	VI. <u>CONTR</u> On this
DOT #:			X Not Re
Crossing Type: <u>** AT GRADE</u> RR Company Owning Track at Crossing: KCS RAILWAY	X Not Required		
Operating RR Company at Track: <u>TEXAS MEXICAN RAILWAY</u>	Required: Contact Information fo	or Construction Inspection:	Requi
RR MP: _942.600 RR Subdivision: ROSENBERG			Requi
City: LOUISE			
County: WHARTON CSJ at this Crossing: 1302-02-014			Requ
Highway/Roadway name crossing the railroad: <u>FM 647</u>			wi+r
<pre># of regularly scheduled trains per day at this crossing: 10 # of switching movements per day at this crossing: 0</pre>			
% of estimated contract cost of work within railroad ROW: <u>1%</u>			
Scope of Work at this Crossing to Be Performed by State Contractor:			To view
SEALCOAT THE ROADWAY UP TO THE RAILROAD CROSSING.			the Sto
			http://
			Approve
			Contrac
Scope of Work at this Crossing to Be Performed by Railroad Company:	IV. CONSTRUCTION WORK TO BE PER	FORMED BY THE RAILROAD	Constru an exec
FLAGGING		to be performed by a railroad company is:	on proj
	Required		
** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian,	🗙 Not Required		
or Closed/Abandoned		to be performed by the Railroad Company. Ny work done by the Railroad Company	VII. RAI
	prior to the work being performed.	iy work done by the Karn odd company	On th
OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)			X Not
NONE			Requ
	V. RAILROAD INSURANCE REQUIREME	INTS	See It
	Railroad reference number shall be	provided by TxDOT CST or DO.	500 11
FLAGGING & INSPECTION	The Contractor shall confirm the in		VIII. SUB
# of Days of Railroad Flagging Expected: <u>3</u>		ts are subject to change without notice.	Contra
n this project, night or weekend flagging is:	more than one Railroad Company is a	for and on behalf of the Railroad. Where operating on the same right of way or	Subcon
_ Expected X Not Expected		re involved and operate on their own parate insurance policies in the name of	as req
lagging services will be provided by:	each Railroad Company.		IX. EME
Railroad Company: TxDOT will pay flagging invoices		e to the Contractor for providing the	
Railroad Company at no cost, because this railroad exists via TxDOT spur permit	insurance coverages shown below or incidental to the various bid item		
X Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT			In C
Contractor must incorporate flaggers into anticipated construction schedule.			Roil
The Railroad requires a 30 day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not	Type of Insurance	Amount of Coverage (Minimum)	Loca RR M
ready for scheduled flaggers, any flagging charges will be paid by Contractor.	Workers Compensation	\$500,000 / \$500,000 / \$500,000	Subd
Contact Information for Flagging:	Commercial General Liability	\$2,000,000 / \$4,000,000	
UPRR - UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging	Business Automobile	\$2,000,000 combined single limit	
- UP.request@nrssinc.net			
Call Center 877-984-6777			
BNSF - BNSF.info@railpros.com	Railroad Pro	tective Liability	
Call Center 877-315-0513, Select #1 for flagging			
🗙 KCS - KCS.info@railpros.com	Not Required		
Call Center 877-315-0513, Select #1 for flagging	🗙 Non - Bridge Projects	\$2,000,000 / \$6,000,000	
- Bottom Line On-Track Safety Services			
bottomline076@aol.com, 903-767-7630	Bridge Projects	\$5,000,000 / \$10,000,000	
	0ther		
OTHERS			
OTHERS			

ACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

project, an ROE agreement is: equired

red: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3) red: UPRR Maintenance Consent Letter, TxDOT CST to assist.

red: Contractor to obtain (see Item 5, Article 8.4)

the following railroad companies:

previously approved ROE Agreement templates agreed upon between te and Railroad, see:

www.txdot.gov/inside-txdot/division/rail/samples.html

ROE Agreement templates are not to be modified by the Contractor.

tor shall not operate within Railroad Right of Way without an executed ction & Maintenance Agreement between the State and the Railroad and uted ROE agreement between the Contractor and the Railroad if required act.

ROAD COORDINATION MEETING

project, a Railroad Coordination Meeting is: Required

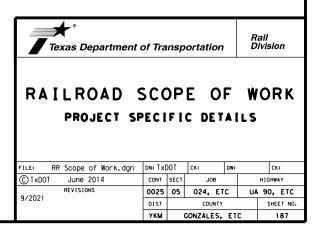
m 5, Article 8.1 for more details.

CONTRACTORS

tor shall not subcontract work without written consent of TxDOT. ractors are required to maintain the same insurance coverage ired of the Contractor.

RGENCY NOTIFICATION

se of Railroad Emergency KCS RAILWAY oad Emergency Line at 877-527-9464 ion: DOT: 743461L lepost: 942.600 vision: ROSENBERG



<pre>I. WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT *: _NONE Crossing Type: ** NONE RR Company Owning Track at Crossing: _KCS RAILWAY Operating RR Company at Track: _ TEXAS MEXICAN RAILWAY RR MP: from 941,970 to 942.020 RR Subdivision: _ROSENBERG City: LOUISE County: WHARTON</pre>	Contractor must incorporate Construct construction schedule. Not Required Required: Contact Information for		VI. <u>CONTRAC</u> On this pr X Not Requi
CSJ at this Crossing: <u>3014-02-005</u> Highway/Roadway name crossing the railroad: <u>FM 647</u> # of regularly scheduled trains per day at this crossing: <u>N/A</u> # of switching movements per day at this crossing: <u>N/A</u> % of estimated contract cost of work within railroad ROW: <u>N/A</u> Scope of Work at this Crossing to Be Performed by State Contractor:			☐ Required With th To view pr
SEALCOAT THE ROADWAY RUNNING PERPENDICULAR TO THE RAILROAD. ALL WORK, EQUIPMENT AND TCP WILL BE OUTSIDE OF RAILROAD RIGHT OF WAY.			the State http://www Approved R
Scope of Work at this Crossing to Be Performed by Railroad Company: NONE	IV. <u>CONSTRUCTION WORK TO BE PERF</u> On this project, construction work t Required	ORMED BY THE RAILROAD o be performed by a railroad company is:	Contractor Constructi an execute on project
** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian, or Closed/Abandoned II. OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)		o be performed by the Railroad Company. y work done by the Railroad Company	VII. <u>RAILRO</u> On this p X Not Requ
NONE	V. RAILROAD INSURANCE REQUIREMEN		☐ Required See Item !
III. FLAGGING & INSPECTION	Railroad reference number shall be p The Contractor shall confirm the ins		VIII. SUBCO
<pre>work =</pre>	the Railroad as the insurance limits Insurance policies must be issued fo more than one Railroad Company is op where several Railroad Companies are	s are subject to change without notice. or and on behalf of the Railroad. Where perating on the same right of way or	Contractor Subcontrac as require
Flagging services will be provided by: Railroad Company: TxDOT will pay flagging invoices Railroad Company at no cost, because this railroad exists via TxDOT spur permit Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT	No direct compensation will be made insurance coverages shown below or o incidental to the various bid items.		IX. <u>EMERGE</u> In Case Call: K
Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized.	Type of Insurance	Amount of Coverage (Minimum)	Railroa Locatio
If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.	Workers Compensation	\$500,000 / \$500,000 / \$500,000	RR Mile Subdivi
Contact Information for Flagging:	Commercial General Liability	\$2,000,000 / \$4,000,000	
Call Center 877-315-0513, Select #1 for flagging - UP.request@nrssinc.net Call Center 877-984-6777	Business Automobile	\$2,000,000 combined single limit	
BNSF - BNSF.info@railpros.com	Railroad Prote	ective Lidbility	
Call Center 877-315-0513, Select #1 for flagging	Not Required		
Call Center 877-315-0513, Select #1 for flagging	🗌 Non - Bridge Projects	\$2,000,000 / \$6,000,000	
- Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630	Bridge Projects	\$5,000,000 / \$10,000,000	
OTHERS	0ther		

RACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

s project, an ROE agreement is: Required

ired: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3) ired: UPRR Maintenance Consent Letter. TxDOT CST to assist.

ired: Contractor to obtain (see Item 5, Article 8.4)

the following railroad companies:

w previously approved ROE Agreement templates agreed upon between bte and Railroad, see:

/www.txdot.gov/inside-txdot/division/rail/samples.html

ed ROE Agreement templates are not to be modified by the Contractor.

ctor shall not operate within Railroad Right of Way without an executed uction & Maintenance Agreement between the State and the Railroad and cuted ROE agreement between the Contractor and the Railroad if required ject.

LROAD COORDINATION MEETING

is project, a Railroad Coordination Meeting is: Required

em 5, Article 8.1 for more details.

BCONTRACTORS

nctor shall not subcontract work without written consent of TxDOT. Itractors are required to maintain the same insurance coverage Juired of the Contractor.

RGENCY NOTIFICATION

ase of Railroad Emergency KCS RAILWAY road Emergency Line at 877-527-9464 tion: Perpendicular and near DOT 743459K ilepost: from 941.970 to 942.020 ivision: ROSENBERG

Texas Department	of Tra	nsp	ortation		Rail Division
RAILROAD S		-		-	
FILE: RR Scope of Work.dgn	dn: Tx[TOC	CK:	DW:	CK:
© TxDOT June 2014	CONT	SECT	JOB		HIGHWAY
REVISIONS 9/2021	0025	05	024, E1	rc i	UA 90, ETC
9/2021	DIST		COUNTY		SHEET NO.
	YKM	0	GONZALES,	ETC	188

WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT #: NONE	Contractor must incorporate Constru- construction schedule.	ction Inspection into anticipated	VI. <u>CONTRAC</u> On this p
Crossing Type: <u>** NONE</u>	🔀 Not Required		🗙 Not Requ
RR Company Owning Track at Crossing: <u>BNSF RAILWAY COMPANY</u> Operating RR Company at Track: BNSF RAILWAY COMPANY	🗌 Required: Contact Information f	or Construction Inspection:	
RR MP: from 80.980 to 81.640			🗌 Require
RR Subdivision: BAY CITY			🗌 Require
City: WADSWORTH County: MATAGORDA			
CSJ at this Crossing: 0241-04-024			Require
Highway/Roadway name crossing the railroad: SH 60			With t
# of regularly scheduled trains per day at this crossing: N/A # of switching movements per day at this crossing: N/A			
% of estimated contract cost of work within railroad ROW: <u>N/A</u>			
Scope of Work at this Crossing to Be Performed by State Contractor:			To view p
			the State
SEALCOAT THE ROADWAY RUNNING PARALLEL TO THE RAILROAD.			http://ww
			Approved
Scope of Work at this Crossing to Be Performed by Railroad Company: NONE	IV. CONSTRUCTION WORK TO BE PER	FORMED BY THE RAILROAD to be performed by a railroad company is:	Contracto Construct an execut on projec
	Required		
	X Not Required		
** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian,			
or Closed/Abandoned		to be performed by the Railroad Company. ny work done by the Railroad Company	VII. RAILF
	prior to the work being performed.		On this
OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)			🗙 Not Red
NONE			Require
	V. RAILROAD INSURANCE REQUIREM	ENTS	
	Railroad reference number shall be	provided by IxDOI (SI or DO	See Item
I. FLAGGING & INSPECTION	The Contractor shall confirm the i	· ·	
# of Days of Railroad Flagging Expected: <u>N/A</u>		ts are subject to change without notice.	VIII. SUBCO
On this project, night or weekend flagging is:	Insurance policies must be issued	for and on behalf of the Railroad. Where	Contracto
Expected		operating on the same right of way or re involved and operate on their own	Subcontro as requir
Not Expected	separate rights of way, provide se	parate insurance policies in the name of	
Flagging services will be provided by:	each Railroad Company.		IX. EMERC
Railroad Company: TxDOT will pay flagging invoices		le to the Contractor for providing the	
Railroad Company at no cost, because this railroad exists via IxDOI spur permit	insurance coverages shown below or incidental to the various bid item		
Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT			In Cos
		_	Call: Railro
Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized.	Type of Insurance	Amount of Coverage (Minimum)	Locati
If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.	Workers Compensation	\$500,000 / \$500,000 / \$500,000	RR Mil
Contact Information for Flagging:		\$500,000 / \$500,000 / \$500,000	Subdiv
	Commercial General Liability	\$2,000,000 / \$4,000,000	
UPRR - UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging	Business Automobile	\$2,000,000 combined single limit	
- UP. request@nrssinc.net			
Call Center 877-984-6777			
BNSF - BNSF.info@railpros.com	Pailroad Pro	tective Liability	
Call Center 877-315-0513, Select #1 for flagging			
	Not Required		
KCS - KCS.info@railpros.com			
Call Center 877-315-0513, Select #1 for flagging	Non - Bridge Projects	\$2,000,000 / \$6,000,000	1
- Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630		#E 000 000 / #10 000 000	
	Bridge Projects	\$5,000,000 / \$10,000,000	1
□ OTHERS	0ther		
OTHERS	Other		

ACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

project, an ROE agreement is: equired

red: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3) red: UPRR Maintenance Consent Letter. TxDOT CST to assist.

red: Contractor to obtain (see Item 5, Article 8.4)

the following railroad companies:

previously approved ROE Agreement templates agreed upon between te and Railroad, see:

www.txdot.gov/inside-txdot/division/rail/samples.html

ROE Agreement templates are not to be modified by the Contractor.

tor shall not operate within Railroad Right of Way without an executed ction & Maintenance Agreement between the State and the Railroad and uted ROE agreement between the Contractor and the Railroad if required ect.

ROAD COORDINATION MEETING

project, a Railroad Coordination Meeting is: Required

m 5, Article 8.1 for more details.

CONTRACTORS

tor shall not subcontract work without written consent of TxDOT. Tractors are required to maintain the same insurance coverage uired of the Contractor.

RGENCY NOTIFICATION

Dise of Railroad Emergency BNSF RAILWAY COMPANY road Emergency Line at 800-832-5452 tion: Parallel and near DOT 023409U lepost: from 80.980 to 81.640 tvision: BAY CITY

Texas Department	of Tra	insp	ortatio	on		ail Vivision
RAILROAD SCOPE OF WORK PROJECT SPECIFIC DETAILS						
PROJECT SF	PECI	FI	C DE	TAI	LS	
PROJECT SF			C DE	TA	LS	CK:
				DW:	LS	CK: HIGHWAY
FILE: RR Scope of Work, dgn © TxDOT June 2014 REVISIONS	DN: Tx	DOT	CK:	Dw: B		•
FILE: RR Scope of Work.dgn	DN: TX CONT	DOT	CK: JO	DW: B ETC		HIGHWAY

WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT *: 023482S (SPUR PERMIT) Crossing Type: ** AT GRADE	Contractor must incorporate Constru construction schedule.	ction Inspection into anticipated	VI. <u>CON</u> On th X No
RR Company Owning Track at Crossing: <u>BNSF RAILWAY COMPANY</u> Operating RR Company at Track: <u>BNSF RAILWAY COMPANY</u> RR MP: <u>82.120</u> RR Subdivision: <u>BAY CITY - CEL</u> City: BAY CITY	Required: Contact Information f	or Construction Inspection:	Re
County: <u>MATAGORDA</u> CSJ at this Crossing: <u>0241-05-013</u> Highway/Roadway name crossing the railroad: <u>SH 60</u> # of regularly scheduled trains per day at this crossing: <u>6</u> # of switching movements per day at this crossing: <u>2</u> % of estimated contract cost of work within railroad ROW: <u>1%</u>			Re Wi
Scope of Work at this Crossing to Be Performed by State Contractor: 			To vi the S http:
Scope of Work at this Crossing to Be Performed by Railroad Company: FLAGGING	IV. CONSTRUCTION WORK TO BE PER On this project, construction work Required	FORMED BY THE RAILROAD to be performed by a railroad company is:	Appro Contr Const an ex on pr
** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian, or Closed/Abandoned		to be performed by the Railroad Company. any work done by the Railroad Company	VII. <u>R</u>
OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)			On t
NONE	V. RAILROAD INSURANCE REQUIREM	ENTS	See
. FLAGGING & INSPECTION	Railroad reference number shall be The Contractor shall confirm the i		VIII. S
<pre>* of Days of Railroad Flagging Expected: _3 On this project, night or weekend flagging is: Expected X Not Expected</pre>	the Railroad as the insurance limi Insurance policies must be issued more than one Railroad Company is where several Railroad Companies o separate rights of way, provide se	for and on behalf of the Railroad. Where operating on the same right of way or are involved and operate on their own eparate insurance policies in the name of	Cont Subc as r
Flagging services will be provided by: Railroad Company: TxDOT will pay flagging invoices Railroad Company at no cost, because this railroad exists via TxDOT spur permit Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT	each Railroad Company. No direct compensation will be mad insurance coverages shown below or incidental to the various bid item		IX. E
Contractor must incorporate flaggers into anticipated construction schedule.	Type of Insurance	Amount of Coverage (Minimum)	Co Ro Lo
The Railroad requires a 30 day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.	Workers Compensation	\$500,000 / \$500,000 / \$500,000	RR
Contact Information for Flagging:	Commercial General Liability	\$2,000,000 / \$4,000,000	
UPRR - UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging - UP.request@nrssinc.net Call Center 877-984-6777	Business Automobile	\$2,000,000 combined single limit	
BNSF – BNSF.info@railpros.com Call Center 877-315-0513, Select #1 for flagging	Railroad Pro	otective Liability	
KCS - KCS.info@railpros.com	Not Required		
Call Center 877-315-0513, Select #1 for flagging - Bottom Line On-Track Safety Services	🔀 Non – Bridge Projects	\$2,000,000 / \$6,000,000	
bottomline076@aol.com, 903-767-7630	Bridge Projects	\$5,000,000 / \$10,000,000	
	0ther		

NTRACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

nis project, an ROE agreement is: ot Required

Required: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3) Required: UPRR Maintenance Consent Letter. TxDOT CST to assist.

Required: Contractor to obtain (see Item 5, Article 8.4)

ith the following railroad companies:

iew previously approved ROE Agreement templates agreed upon between State and Railroad, see:

://www.txdot.gov/inside-txdot/division/rail/samples.html

oved ROE Agreement templates are not to be modified by the Contractor.

ractor shall not operate within Railroad Right of Way without an executed truction & Maintenance Agreement between the State and the Railroad and xecuted ROE agreement between the Contractor and the Railroad if required roject.

RAILROAD COORDINATION MEETING

this project, a Railroad Coordination Meeting is: Not Required

Item 5, Article 8.1 for more details.

SUBCONTRACTORS

tractor shall not subcontract work without written consent of TxDOT. contractors are required to maintain the same insurance coverage required of the Contractor.

MERGENCY NOTIFICATION

Case of Railroad Emergency II: BNSF RAILWAY COMPANY ilroad Emergency Line at 800-832-5452 cation: DOT: 023482S Milepost: 82.120 bdivision: BAY CITY - CEL

Texas Department	of Tra	nsp	ortatio	on		tail Division	
RAILROAD SCOPE OF WORK PROJECT SPECIFIC DETAILS							
PROJECT SP	PECI	FI	C DE	TAI	LS		
PROJECT SF	PECI	-	C DE	Dw:	LS	CK:	
		-		DW:			
FILE: RR Scope of Work, dgn C TxDOT June 2014 REVISIONS	DN: Tx[DOT	Ск:	DW:		CK:	
FILE: RR Scope of Work, dgn © TxDOT June 2014	DN: Tx[cont	DOT	CK: JO	DW: B ETC		CK: HIGHWAY	

• WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT *: NONE Crossing Type: ** NONE RR Company Owning Track at Crossing: BNSF RAILWAY COMPANY Operating RR Company at Track: BNSF RAILWAY COMPANY Operating RR Company at Track: BNSF RAILWAY COMPANY Operating RR Company at Track: BNSF RAILWAY COMPANY RR MP: 79.870 RR Subdivision: BAY CITY City: BAY CITY County: MATAGORDA CSJ at this Crossing: 0847-04-008 Highway/Roadway name crossing the railroad: FM 2078 * of regularly scheduled trains per day at this crossing: N/A * of switching movements per day at this crossing: N/A % of estimated contract cost of work within railroad ROW: N/A	Contractor must incorporate Construction schedule. Not Required Required: Contact Information fo		VI. <u>CONT</u> On thi X Not Req Req Wit
Scope of Work at this Crossing to Be Performed by State Contractor: <u>SEALCOAT THE ROADWAY RUNNING PERPENDICULAR TO THE RAILROAD. ALL WORK,</u> <u>EQUIPMENT AND TCP WILL BE OUTSIDE OF RAILROAD RIGHT OF WAY.</u>			To vie the St http:/ Approv
Scope of Work at this Crossing to Be Performed by Railroad Company: NONE	IV. <u>CONSTRUCTION WORK TO BE PERF</u> On this project, construction work t Required X Not Required	ORMED BY THE RAILROAD to be performed by a railroad company is:	Contro Constr an exe on pro
** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian, or Closed/Abandoned		o be performed by the Railroad Company. Wy work done by the Railroad Company	VII. <u>RA</u> On th
I. OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)			No1
NONE	V. RAILROAD INSURANCE REQUIREME	NTS	See I
<pre>II. FLAGGING & INSPECTION # of Days of Railroad Flagging Expected:A On this project, night or weekend flagging is: Expected Not Expected Flagging services will be provided by:</pre>	Insurance policies must be issued f more than one Railroad Company is o where several Railroad Companies ar separate rights of way, provide sep each Railroad Company.	surance requirements with s are subject to change without notice. or and on behalf of the Railroad. Where perating on the same right of way or e involved and operate on their own warate insurance policies in the name of	VIII. <u>SU</u> Contr- Subcoi as re- IX. EM
 Railroad Company: TxDOT will pay flagging invoices Railroad Company at no cost, because this railroad exists via TxDOT spur permit Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT 	No direct compensation will be made insurance coverages shown below or incidental to the various bid items		In C Call
Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized.	Type of Insurance	Amount of Coverage (Minimum)	Rai I Loca
If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.	Workers Compensation	\$500,000 / \$500,000 / \$500,000	RR M Subo
Contact Information for Flagging:	Commercial General Liability	\$2,000,000 / \$4,000,000	
Call Center 877-315-0513, Select #1 for flagging - UP.request@nrssinc.net Call Center 877-984-6777	Business Automobile	\$2,000,000 combined single limit	
BNSF - BNSF.info@railpros.com Call Center 877-315-0513, Select #1 for flagging	Railroad Prot	ective Liability	
 Call Center 877-315-0513, Select #1 for flagging KCS - KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630 	Not Required Non - Bridge Projects Bridge Projects	\$2,000,000 / \$6,000,000 \$5,000,000 / \$10,000,000	
OTHERS	0ther		

RACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

is project, an ROE agreement is: Required

uired: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3) uired: UPRR Maintenance Consent Letter. TxDOT CST to assist.

uired: Contractor to obtain (see Item 5, Article 8.4)

th the following railroad companies:

w previously approved ROE Agreement templates agreed upon between ate and Railroad, see:

/www.txdot.gov/inside-txdot/division/rail/samples.html

ed ROE Agreement templates are not to be modified by the Contractor.

actor shall not operate within Railroad Right of Way without an executed fuction & Maintenance Agreement between the State and the Railroad and acuted ROE agreement between the Contractor and the Railroad if required pject.

ILROAD COORDINATION MEETING

is project, a Railroad Coordination Meeting is: Required

tem 5, Article 8.1 for more details.

BCONTRACTORS

actor shall not subcontract work without written consent of TxDOT. Intractors are required to maintain the same insurance coverage quired of the Contractor.

ERGENCY NOTIFICATION

ase of Railroad Emergency : BNSF RAILWAY COMPANY road Emergency Line at 800-832-5452 tion: Perpendicular to DOT 023406Y lilepost: 79.870 livisioN: BAY CITY

Texas Department	of Tra	nsp	ortation		Rail Division
RAILROAD S					
FILE: RR Scope of Work.dgn	dn: Tx[TOC	CK:	DW:	CK:
					CK:
© TxDOT June 2014	CONT	SECT	JOB		HIGHWAY
REVISIONS	CONT 0025	SECT 05	JOB 024, ET	rc u	•
0					HIGHWAY

OT *:448724L	construction schedule.	
rossing Type: ** AT GRADE	X Not Required	
R Company Owning Track at Crossing: <u>UNION PACIFIC RAILROAD</u> perating RR Company at Track: UNION PACIFIC RAILROAD	Required: Contact Information	for Construction Inspection:
R MP: 269.650		
R Subdivision: ANGLETON		
ity:_ELMATON ounty: MATAGORDA		
SJ at this Crossing: 1321-01-023		
ighway/Roadway name crossing the railroad: FM 1095		
of regularly scheduled trains per day at this crossing: <u>10</u> of switching movements per day at this crossing: 0		
of estimated contract cost of work within railroad ROW: <u>1%</u>		
cope of Work at this Crossing to Be Performed by State Contractor:		
SEALCOAT THE ROADWAY UP TO THE RAILROAD CROSSING.		
DURING THE ONE LANE TWO-WAY TRAFFIC CONTROL OPERATIONS A RAILROAD FLAGGER		
AND CONSTRUCTION FLAGGER MUST BE PRESENT FOR THE DURATION OF THE WORK		
THROUGH UPRR RIGHT OF WAY.		
cope of Work at this Crossing to Be Performed by Railroad Company:		
NONE	IV. CONSTRUCTION WORK TO BE PE	k to be performed by a railroad company is:
		k to be performed by a farmoud company is.
	X Not Required	
* Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian,		
or Closed/Abandoned		<pre>< to be performed by the Railroad Company. any work done by the Railroad Company</pre>
	prior to the work being performed.	
THER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)		
NONE		
	V. RAILROAD INSURANCE REQUIRE	MENTS
	V. RAILROAD INSURANCE REQUIRE Railroad reference number shall b	
FLAGGING & INSPECTION	Railroad reference number shall t The Contractor shall confirm the	De provided by TxDOT CST or DO. insurance requirements with
	Railroad reference number shall t The Contractor shall confirm the the Railroad as the insurance lin	be provided by TxDOT CST or DO. insurance requirements with nits are subject to change without notice.
FLAGGING & INSPECTION	Railroad reference number shall the Contractor shall confirm the the the Railroad as the insurance ling Insurance policies must be issued	be provided by TxDOT CST or DO. insurance requirements with nits are subject to change without notice. d for and on behalf of the Railroad. Where
FLAGGING & INSPECTION of Days of Railroad Flagging Expected: <u>3</u>	Railroad reference number shall the Contractor shall confirm the the Railroad as the insurance lingurance policies must be issued more than one Railroad Company is where several Railroad Companies	be provided by TxDOT CST or DO. insurance requirements with nits are subject to change without notice. d for and on behalf of the Railroad. Where s operating on the same right of way or are involved and operate on their own
FLAGGING & INSPECTION of Days of Railroad Flagging Expected: <u>3</u> n this project, night or weekend flagging is:	Railroad reference number shall the Contractor shall confirm the the Railroad as the insurance lint Insurance policies must be issued more than one Railroad Company is where several Railroad Companies separate rights of way, provide s	be provided by TxDOT CST or DO. insurance requirements with nits are subject to change without notice. d for and on behalf of the Railroad. Where s operating on the same right of way or
FLAGGING & INSPECTION of Days of Railroad Flagging Expected: <u>3</u> n this project, night or weekend flagging is:]Expected	Railroad reference number shall the Contractor shall confirm the the Railroad as the insurance lime Insurance policies must be issued more than one Railroad Company is where several Railroad Companies separate rights of way, provide seach Railroad Company.	be provided by TxDOT CST or DO. insurance requirements with nits are subject to change without notice. If for and on behalf of the Railroad. Where s operating on the same right of way or are involved and operate on their own separate insurance policies in the name of
FLAGGING & INSPECTION of Days of Railroad Flagging Expected: <u>3</u> n this project, night or weekend flagging is:]Expected Not Expected	Railroad reference number shall to The Contractor shall confirm the the Railroad as the insurance lin Insurance policies must be issued more than one Railroad Company is where several Railroad Companies separate rights of way, provide s each Railroad Company. No direct compensation will be mo	be provided by TxDOT CST or DO. insurance requirements with nits are subject to change without notice. If for and on behalf of the Railroad. Where is operating on the same right of way or are involved and operate on their own separate insurance policies in the name of adde to the Contractor for providing the
FLAGGING & INSPECTION of Days of Railroad Flagging Expected: <u>3</u> n this project, night or weekend flagging is:]Expected] Not Expected lagging services will be provided by:	Railroad reference number shall to The Contractor shall confirm the the Railroad as the insurance lin Insurance policies must be issued more than one Railroad Company is where several Railroad Companies separate rights of way, provide s each Railroad Company. No direct compensation will be mo	be provided by TxDOT CST or DO. insurance requirements with nits are subject to change without notice. d for and on behalf of the Railroad. Where s operating on the same right of way or are involved and operate on their own separate insurance policies in the name of adde to the Contractor for providing the or any deductibles. These costs are
FLAGGING & INSPECTION of Days of Railroad Flagging Expected: <u>3</u> n this project, night or weekend flagging is:]Expected] Not Expected lagging services will be provided by:] Railroad Company: TxDOT will pay flagging invoices	Railroad reference number shall to The Contractor shall confirm the the Railroad as the insurance lin Insurance policies must be issued more than one Railroad Company is where several Railroad Companies separate rights of way, provide s each Railroad Company. No direct compensation will be mo insurance coverages shown below of	be provided by TxDOT CST or DO. insurance requirements with nits are subject to change without notice. d for and on behalf of the Railroad. Where s operating on the same right of way or are involved and operate on their own separate insurance policies in the name of adde to the Contractor for providing the or any deductibles. These costs are
FLAGGING & INSPECTION of Days of Railroad Flagging Expected: <u>3</u> of this project, night or weekend flagging is: Expected Not Expected lagging services will be provided by: Railroad Company: TxDOT will pay flagging invoices Railroad Company at no cost, because this railroad exists via TxDOT spur permit	Railroad reference number shall to The Contractor shall confirm the the Railroad as the insurance lim Insurance policies must be issued more than one Railroad Company is where several Railroad Companies separate rights of way, provide s each Railroad Company. No direct compensation will be ma insurance coverages shown below of incidental to the various bid ite	be provided by TxDOT CST or DO. insurance requirements with nits are subject to change without notice. d for and on behalf of the Railroad. Where s operating on the same right of way or are involved and operate on their own separate insurance policies in the name of ade to the Contractor for providing the or any deductibles. These costs are ems.
FLAGGING & INSPECTION of Days of Railroad Flagging Expected: <u>3</u> h this project, night or weekend flagging is: Expected Not Expected lagging services will be provided by: Railroad Company: TxDOT will pay flagging invoices Railroad Company at no cost, because this railroad exists via TxDOT spur permit Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT	Railroad reference number shall to The Contractor shall confirm the the Railroad as the insurance lin Insurance policies must be issued more than one Railroad Company is where several Railroad Companies separate rights of way, provide s each Railroad Company. No direct compensation will be mo insurance coverages shown below of incidental to the various bid ite Type of Insurance	be provided by TxDOT CST or DO. insurance requirements with nits are subject to change without notice. d for and on behalf of the Railroad. Where s operating on the same right of way or are involved and operate on their own separate insurance policies in the name of adde to the Contractor for providing the or any deductibles. These costs are
FLAGGING & INSPECTION of Days of Railroad Flagging Expected: <u>3</u> on this project, night or weekend flagging is: [Expected Not Expected lagging services will be provided by: [Railroad Company: TxDOT will pay flagging invoices] Railroad Company at no cost, because this railroad exists via TxDOT spur permit [Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT pontractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized. f Contractor falls behind schedule due to their own negligence and is not eady for scheduled flaggers, any flagging charges will be paid by Contractor.	Railroad reference number shall to The Contractor shall confirm the the Railroad as the insurance lim Insurance policies must be issued more than one Railroad Company is where several Railroad Companies separate rights of way, provide s each Railroad Company. No direct compensation will be ma insurance coverages shown below of incidental to the various bid ite	be provided by TxDOT CST or DO. insurance requirements with nits are subject to change without notice. d for and on behalf of the Railroad. Where s operating on the same right of way or are involved and operate on their own separate insurance policies in the name of ade to the Contractor for providing the or any deductibles. These costs are ems.
FLAGGING & INSPECTION of Days of Railroad Flagging Expected: <u>3</u> in this project, night or weekend flagging is: Expected Not Expected lagging services will be provided by: Railroad Company: TxDOT will pay flagging invoices Railroad Company at no cost, because this railroad exists via TxDOT spur permit Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT pontractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized. f Contractor falls behind schedule due to their own negligence and is not eady for scheduled flaggers, any flagging charges will be paid by Contractor.	Railroad reference number shall to The Contractor shall confirm the the Railroad as the insurance lin Insurance policies must be issued more than one Railroad Company is where several Railroad Companies separate rights of way, provide s each Railroad Company. No direct compensation will be mo insurance coverages shown below of incidental to the various bid ite Type of Insurance	De provided by TxDOT CST or DO. insurance requirements with nits are subject to change without notice. d for and on behalf of the Railroad. Where s operating on the same right of way or are involved and operate on their own separate insurance policies in the name of adde to the Contractor for providing the por any deductibles. These costs are ems. Amount of Coverage (Minimum)
FLAGGING & INSPECTION of Days of Railroad Flagging Expected: <u>3</u> on this project, night or weekend flagging is: [Expected Not Expected lagging services will be provided by: [Railroad Company: TxDOT will pay flagging invoices] Railroad Company at no cost, because this railroad exists via TxDOT spur permit [Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT pontractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized. f Contractor falls behind schedule due to their own negligence and is not eady for scheduled flaggers, any flagging charges will be paid by Contractor.	Railroad reference number shall to The Contractor shall confirm the the Railroad as the insurance lin Insurance policies must be issued more than one Railroad Company is where several Railroad Companies separate rights of way, provide s each Railroad Company. No direct compensation will be mu insurance coverages shown below of incidental to the various bid ite Type of Insurance Workers Compensation	De provided by TxDOT CST or DO. insurance requirements with mits are subject to change without notice. d for and on behalf of the Railroad. Where is operating on the same right of way or are involved and operate on their own separate insurance policies in the name of adde to the Contractor for providing the bor any deductibles. These costs are ems. Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000
FLAGGING & INSPECTION of Days of Railroad Flagging Expected: <u>3</u> in this project, night or weekend flagging is: Expected Not Expected lagging services will be provided by: Railroad Company: TxDOT will pay flagging invoices Railroad Company at no cost, because this railroad exists via TxDOT spur permit Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT pontractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized. f Contractor falls behind schedule due to their own negligence and is not eady for scheduled flaggers, any flagging charges will be paid by Contractor. ontact Information for Flagging: UPRR - UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging - UP.request@nrssinc.net	Railroad reference number shall to The Contractor shall confirm the the Railroad as the insurance lim Insurance policies must be issued more than one Railroad Company is where several Railroad Companies separate rights of way, provide s each Railroad Company. No direct compensation will be ma insurance coverages shown below of incidental to the various bid ite Type of Insurance Workers Compensation Commercial General Liability	De provided by TxDOT CST or DO. insurance requirements with nits are subject to change without notice. d for and on behalf of the Railroad. Where s operating on the same right of way or are involved and operate on their own separate insurance policies in the name of ade to the Contractor for providing the bor any deductibles. These costs are ems. Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000
FLAGGING & INSPECTION of Days of Railroad Flagging Expected: _3	Railroad reference number shall to The Contractor shall confirm the the Railroad as the insurance lim Insurance policies must be issued more than one Railroad Company is where several Railroad Companies separate rights of way, provide s each Railroad Company. No direct compensation will be ma insurance coverages shown below of incidental to the various bid ite Type of Insurance Workers Compensation Commercial General Liability	De provided by TxDOT CST or DO. insurance requirements with mits are subject to change without notice. d for and on behalf of the Railroad. Where is operating on the same right of way or are involved and operate on their own separate insurance policies in the name of adde to the Contractor for providing the bor any deductibles. These costs are ems. Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000
FLACGING & INSPECTION of Days of Railroad Flagging Expected: _3	Railroad reference number shall to The Contractor shall confirm the the Railroad as the insurance lim Insurance policies must be issued more than one Railroad Company is where several Railroad Companies separate rights of way, provide s each Railroad Company. No direct compensation will be ma insurance coverages shown below of incidental to the various bid ite Type of Insurance Workers Compensation Commercial General Liability Business Automobile	De provided by TxDOT CST or DO. insurance requirements with mits are subject to change without notice. d for and on behalf of the Railroad. Where is operating on the same right of way or are involved and operate on their own separate insurance policies in the name of adde to the Contractor for providing the bor any deductibles. These costs are ems. Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000
FLAGGING & INSPECTION of Days of Railroad Flagging Expected: 3	Railroad reference number shall to The Contractor shall confirm the the Railroad as the insurance lim Insurance policies must be issued more than one Railroad Company is where several Railroad Companies separate rights of way, provide s each Railroad Company. No direct compensation will be ma insurance coverages shown below of incidental to the various bid ite Type of Insurance Workers Compensation Commercial General Liability Business Automobile	Deprovided by TxDOT CST or D0. insurance requirements with nits are subject to change without notice. d for and on behalf of the Railroad. Where s operating on the same right of way or are involved and operate on their own separate insurance policies in the name of ade to the Contractor for providing the or any deductibles. These costs are ems. Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000 \$2,000,000 combined single limit
FLACGING & INSPECTION of Days of Railroad Flagging Expected: _3	Railroad reference number shall to The Contractor shall confirm the the Railroad as the insurance lim Insurance policies must be issued more than one Railroad Company is where several Railroad Companies separate rights of way, provide s each Railroad Company. No direct compensation will be ma insurance coverages shown below of incidental to the various bid ite Type of Insurance Workers Compensation Commercial General Liability Business Automobile	Deprovided by TxDOT CST or D0. insurance requirements with nits are subject to change without notice. d for and on behalf of the Railroad. Where s operating on the same right of way or are involved and operate on their own separate insurance policies in the name of ade to the Contractor for providing the or any deductibles. These costs are ems. Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000 \$2,000,000 combined single limit
FLACCINC & INSPECTION of Days of Railroad Flagging Expected: 3	Railroad reference number shall to The Contractor shall confirm the the Railroad as the insurance lim Insurance policies must be issued more than one Railroad Company is where several Railroad Company is separate rights of way, provide seach Railroad Company. No direct compensation will be mainsurance coverages shown below or incidental to the various bid ite Type of Insurance Workers Compensation Commercial General Liability Business Automobile Railroad Pr Not Required	De provided by TxDOT CST or DO. insurance requirements with mits are subject to change without notice. d for and on behalf of the Railroad. Where is operating on the same right of way or are involved and operate on their own separate insurance policies in the name of adde to the Contractor for providing the or any deductibles. These costs are ems. Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000 \$2,000,000 combined single limit rotective Liability
FLAGGING & INSPECTION of Days of Railroad Flagging Expected: _3	Railroad reference number shall to The Contractor shall confirm the the Railroad as the insurance lim Insurance policies must be issued more than one Railroad Company is where several Railroad Companies separate rights of way, provide se each Railroad Company. No direct compensation will be may insurance coverages shown below of incidental to the various bid ite Type of Insurance Workers Compensation Commercial General Liability Business Automobile Railroad Pr	Deprovided by TxDOT CST or DO. insurance requirements with mits are subject to change without notice. d for and on behalf of the Railroad. Where is operating on the same right of way or are involved and operate on their own separate insurance policies in the name of adde to the Contractor for providing the or any deductibles. These costs are ems. Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000 \$2,000,000 combined single limit rotective Liability
FLAGGING & INSPECTION of Days of Railroad Flagging Expected: _3	Railroad reference number shall to The Contractor shall confirm the the Railroad as the insurance lim Insurance policies must be issued more than one Railroad Company is where several Railroad Company is separate rights of way, provide seach Railroad Company. No direct compensation will be mainsurance coverages shown below or incidental to the various bid ite Type of Insurance Workers Compensation Commercial General Liability Business Automobile Railroad Pr Not Required	De provided by TxDOT CST or DO. insurance requirements with mits are subject to change without notice. d for and on behalf of the Railroad. Where is operating on the same right of way or are involved and operate on their own separate insurance policies in the name of adde to the Contractor for providing the or any deductibles. These costs are ems. Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000 \$2,000,000 combined single limit rotective Liability
FLAGGING & INSPECTION of Days of Railroad Flagging Expected: _3	Railroad reference number shall to The Contractor shall confirm the the Railroad as the insurance lin Insurance policies must be issued more than one Railroad Company is where several Railroad Companies separate rights of way, provide seach Railroad Company. No direct compensation will be mm insurance coverages shown below of incidental to the various bid ited Type of Insurance Workers Compensation Commercial General Liability Business Automobile Railroad Projects Instract Non - Bridge Projects	Deeprovided by TxDOT CST or D0. insurance requirements with nits are subject to change without notice. d for and on behalf of the Railroad. Where s operating on the same right of way or are involved and operate on their own separate insurance policies in the name of ade to the Contractor for providing the or any deductibles. These costs are ems. Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$44,000,000 \$2,000,000 combined single limit rotective Liability \$2,000,000 / \$6,000,000
FLAGGING & INSPECTION of Days of Railroad Flagging Expected: _3	Railroad reference number shall to The Contractor shall confirm the the Railroad as the insurance lim Insurance policies must be issued more than one Railroad Company is where several Railroad Companies separate rights of way, provide seach Railroad Company. No direct compensation will be mainsurance coverages shown below or incidental to the various bid ite Type of Insurance Workers Compensation Commercial General Liability Business Automobile Railroad Projects Insurance	Deeprovided by TxDOT CST or D0. insurance requirements with nits are subject to change without notice. d for and on behalf of the Railroad. Where s operating on the same right of way or are involved and operate on their own separate insurance policies in the name of ade to the Contractor for providing the or any deductibles. These costs are ems. Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$44,000,000 \$2,000,000 combined single limit rotective Liability \$2,000,000 / \$6,000,000

I. CONTRACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

On this project, an ROE agreement is:

Required: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3)

Required: Contractor to obtain (see Item 5, Article 8.4)

With the following railroad companies:

To view previously approved ROE Agreement templates agreed upon between the State and Railroad, see:

http://www.txdot.gov/inside-txdot/division/rail/samples.html

Approved ROE Agreement templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed ROE agreement between the Contractor and the Railroad if required on project.

VII. RAILROAD COORDINATION MEETING

On this project, a Railroad Coordination Meeting is:

See Item 5, Article 8.1 for more details.

III. SUBCONTRACTORS

🔀 Required

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are required to maintain the same insurance coverage as required of the Contractor.

IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency Call: UNION PACIFIC RAILROAD Railroad Emergency Line at 888-877-7267 Location: DOT: 448724L RR Milepost: 269.650 Subdivision: ANGLETON

✓ Texas Department	of Tra	insp	ortatio	on		Pail Division
RAILROAD SCOPE OF WORK PROJECT SPECIFIC DETAILS						
PROJECT SP	PECI	FI	C DE	TAI	LS	
PROJECT SF	ECI		C DE	DW:	LS	CK:
				DW:	LS	
FILE: RR Scope of Work, dgn ① TxDOT June 2014 REVISIONS	DN: Tx	DOT	Ск:	DW:		CK:
FILE: RR Scope of Work, dgn © TxDOT June 2014	DN: TX CONT	DOT	CK: JO	DW: B ETC		CK: HIGHWAY

WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT #: 023399R	Contractor must incorporate Construction schedule.	ction Inspection into anticipated	VI. <u>CONTRA</u> On this p X Not Req
Crossing Type: <u>** AT GRADE</u> RR Company Owning Track at Crossing:_BNSF RAILWAY COMPANY	Not Required		
Operating RR Company at Track: <u>BNSF RAILWAY COMPANY</u>	Required: Contact Information for	or Construction Inspection:	Require
RR MP: 79.137			
RR Subdivision: <u>BAY CITY - CELA</u> City: BAY CITY			
County: MATAGORDA			
CSJ at this Crossing: <u>2697-01-036</u>			🗌 Require
Highway/Roadway name crossing the railroad: <u>FM 2668</u> # of regularly scheduled trains per day at this crossing: 2			With 1
# of switching movements per day at this crossing: 0			
% of estimated contract cost of work within railroad ROW: <u>1%</u>			
Scope of Work at this Crossing to Be Performed by State Contractor:			To view p
SEALCOAT THE ROADWAY UP TO THE RAILROAD CROSSING.			the State
			http://ww
			Approved
			Contracto
Scope of Work at this Crossing to Be Performed by Railroad Company: FLAGGING		FORMED BY THE RAILROAD to be performed by a railroad company is:	Construct an execut on projec
	Required		
** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian,	Not Required		
or Closed/Abandoned		to be performed by the Railroad Company.	VII. RAIL
	TxDOT must issue a work order for a prior to the work being performed.	ny work done by the Railroad Company	
. OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)			On this
			X Not Re
NONE	V. RAILROAD INSURANCE REQUIREM	FNTS	Requir
			See Item
	Railroad reference number shall be	provided by TxDOT CST or DO.	
II. FLAGGING & INSPECTION	The Contractor shall confirm the i		VIII. SUBC
<pre># of Days of Railroad Flagging Expected: _3</pre>		ts are subject to change without notice.	Contract
On this project, night or weekend flagging is:		for and on behalf of the Railroad. Where operating on the same right of way or	Subcontr
Expected	where several Railroad Companies a	re involved and operate on their own	as requi
Not Expected	each Railroad Company.	parate insurance policies in the name of	
Flagging services will be provided by:	No direct compensation will be made	e to the Contractor for providing the	IX. EMER
Railroad Company: TxDOT will pay flagging invoices	insurance coverages shown below or	any deductibles. These costs are	
Railroad Company at no cost, because this railroad exists via TxDOT spur permit	incidental to the various bid item	s.	In Cas
🗙 Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT			Call:
Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized.	Type of Insurance	Amount of Coverage (Minimum)	Railra Locati
If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.	Workers Compensation	\$500,000 / \$500,000 / \$500,000	RR Mil
Contact Information for Flagging:			Subdiv
UPRR - UP.info@railpros.com	Commercial General Liability	\$2,000,000 / \$4,000,000	
Call Center 877-315-0513, Select #1 for flagging	Business Automobile	\$2,000,000 combined single limit	
- UP.request@nrssinc.net Call Center 877-984-6777			
BNSF - BNSF.info@railpros.com Call Center 877-315-0513, Select #1 for flagging		tective Liability	
	Not Required		
KCS - KCS.info@railpros.com			
Call Center 877-315-0513, Select #1 for flagging	🗙 Non - Bridge Projects	\$2,000,000 / \$6,000,000	
- Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630		¢5 000 000 / ¢10 000 000	
	Bridge Projects	\$5,000,000 / \$10,000,000	
OTHERS	0ther		
			1

ACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

project, an ROE agreement is: equired

red: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3) red: UPRR Maintenance Consent Letter. TxDOT CST to assist.

red: Contractor to obtain (see Item 5, Article 8.4)

the following railroad companies:

previously approved ROE Agreement templates agreed upon between te and Railroad, see:

www.txdot.gov/inside-txdot/division/rail/samples.html

ROE Agreement templates are not to be modified by the Contractor.

tor shall not operate within Railroad Right of Way without an executed ction & Maintenance Agreement between the State and the Railroad and uted ROE agreement between the Contractor and the Railroad if required ect.

ROAD COORDINATION MEETING

project, a Railroad Coordination Meeting is: Required

em 5, Article 8.1 for more details.

CONTRACTORS

tor shall not subcontract work without written consent of TxDOT. ractors are required to maintain the same insurance coverage ired of the Contractor.

RGENCY NOTIFICATION

se of Railroad Emergency BNSF RAILWAY COMPANY oad Emergency Line at 800-832-5452 ion: DOT: 023399R lepost: 79.137 vision: BAY CITY - CELA

Texas Department of Transportation								
RAILROAD S Project SF						OR	K	
FILE: RR Scope of Work.dgn	DN: Tx	TOC	CK:	DW:		CK:		
CTxDOT June 2014	CONT	SECT	JOB			H1GHWA	Y	
REVISIONS 9/2021	0025	05	024, ET	C	UA	90,	ETC	
9/2021	DIST		COUNTY			SHEE	T NO.	
	YKM	0	ONZALES,	ET	С	1	93	

ORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, IGHWAY UNDERPASS,PEDESTRIAN, OR CLOSED/ABANDONED)	Contractor must incorporate Construction schedule.	tion Inspection into anticipated	VI. <u>CON</u>
DOT #: 023477V			X Not
Crossing Type:** <u>AT GRADE</u> RR Company Owning Track at Crossing: BNSF RAILWAY COMPANY	Not Required		
Operating RR Company at Track: <u>BNSF RAILWAY COMPANY</u>	Required: Contact Information fo	or Construction Inspection:	Rec
RR MP:			
RR Subdivision: <u>BAY CITY</u> City: BAY CITY			Red
County: MATAGORDA			
CSJ at this Crossing: <u>3087-01-009</u>			Red
Highway/Roadway name crossing the railroad: <u>FM 3057</u> # of regularly scheduled trains per day at this crossing: 4			wi
# of switching movements per day at this crossing: 0			
% of estimated contract cost of work within railroad ROW: <u>1%</u>			
Scope of Work at this Crossing to Be Performed by State Contractor:			To vi
SEALCOAT THE ROADWAY UP TO THE RAILROAD CROSSING.			the S
			http:
			Appro
			Contr
Scope of Work at this Crossing to Be Performed by Railroad Company:	IV. CONSTRUCTION WORK TO BE PERI	FORMED BY THE RAILROAD	Const an ex
FLAGGING		to be performed by a railroad company is:	on pr
	Required	-	
	Not Required		
** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian,	Coordinate with Typot for any work	to be performed by the Railroad Company.	
or Closed/Abandoned	TxDOT must issue a work order for a	ny work done by the Railroad Company.	
	prior to the work being performed.		On
OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)			X N
NONE			D F
	V. RAILROAD INSURANCE REQUIREME	INTS	See
	Railroad reference number shall be	provided by TxDOT CST or DO.	500
FLAGGING & INSPECTION	The Contractor shall confirm the ir	-	VIII. S
# of Days of Railroad Flagging Expected: <u>3</u>	the Railroad as the insurance limi	ts are subject to change without notice.	
)n this project, night or weekend flagging is:		for and on behalf of the Railroad. Where	Cont Subc
Expected		operating on the same right of way or re involved and operate on their own	as r
Not Expected	separate rights of way, provide seg each Railroad Company.	parate insurance policies in the name of	
- Flagging services will be provided by:	eddir Karn odd Company.		IX. E
Railroad Company: TxDOT will pay flagging invoices	No direct compensation will be made insurance coverages shown below or	e to the Contractor for providing the	-
	incidental to the various bid item		
X Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT			In Ca
Contractor must incorporate flaggers into anticipated construction schedule.			Ro
The Railroad requires a 30 day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not	Type of Insurance	Amount of Coverage (Minimum)	Loc RR
ready for scheduled flaggers, any flagging charges will be paid by Contractor.	Workers Compensation	\$500,000 / \$500,000 / \$500,000	Sut
Contact Information for Flagging:	Commercial General Liability	\$2,000,000 / \$4,000,000	
Call Center 877-315-0513, Select #1 for flagging	Business Automobile	\$2,000,000 combined single limit	
- UP.request@nrssinc.net			
Call Center 877-984-6777			
X BNSF - BNSF.info@railpros.com	Railroad Pro	tective Liability	
Call Center 877-315-0513, Select #1 for flagging			
KCS - KCS.info@railpros.com	Not Required		
Call Center 877-315-0513, Select #1 for flagging	Non - Bridge Projects	\$2,000,000 / \$6,000,000	
- Bottom Line On-Track Safety Services		\$2,000,000 / \$ 5 ,000,000	
bottomline076@aol.com, 903-767-7630	Bridge Projects	\$5,000,000 / \$10,000,000	
OTHERS	0ther		

RACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

s project, an ROE agreement is: Required

ired: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3) sired: UPRR Maintenance Consent Letter. TxDOT CST to assist.

ired: Contractor to obtain (see Item 5, Article 8.4)

the following railroad companies:

w previously approved ROE Agreement templates agreed upon between bte and Railroad, see:

/www.txdot.gov/inside-txdot/division/rail/samples.html

ed ROE Agreement templates are not to be modified by the Contractor.

ctor shall not operate within Railroad Right of Way without an executed uction & Maintenance Agreement between the State and the Railroad and cuted ROE agreement between the Contractor and the Railroad if required ject.

LROAD COORDINATION MEETING

is project, a Railroad Coordination Meeting is: Required

em 5, Article 8.1 for more details.

BCONTRACTORS

actor shall not subcontract work without written consent of TxDOT. ntractors are required to maintain the same insurance coverage quired of the Contractor.

RGENCY NOTIFICATION

ase of Railroad Emergency BSNF RAILWAY COMPANY road Emergency Line at 800-832-5452 tion: DOT: 023477V ilepost: 79.600 ivision: BAY CITY

Texas Department	of Tra	nsp	ortatio	on		Pail Division	
RAILROAD	500)P	F () DF	w		
PROJECT SP							•
		FI					•
PROJECT SP	PECI	FI	C DE				•
PROJECT SP			C DE	DW:	LS	Ск:	
PROJECT SP	DN: TX	FI DOT	С DE ск: 	Dw: B ETC	LS	CK: HIGHWAY	

HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED)		ion Inspection into anticipated	VI. <u>CON</u>
DOT #: 746746H (SPUR PERMIT)	construction schedule.		On th
Crossing Type: ** AT GRADE	X Not Required		X Not
RR Company Owning Track at Crossing: <u>SAFETY RAILWAY SERVICES, L.P.</u> Operating RR Company at Track: <u>SAFETY RAILWAY SERVICES, L.P.</u>	Required: Contact Information for	Construction Inspection:	Rec
RR MP: 5.980			
RR Subdivision: <u>COLETO CREEK</u> City: VICTORIA			Re
County: VICTORIA			
CSJ at this Crossing: <u>0088-06-006</u> Highway/Roadway name crossing the railroad: BU 59T			Red
# of regularly scheduled trains per day at this crossing: 4			wi
# of switching movements per day at this crossing: <u>2</u> % of estimated contract cost of work within railroad ROW: 1%			
Scope of Work at this Crossing to Be Performed by State Contractor:			To vi the S
SEALCOAT THE ROADWAY UP TO THE RAILROAD CROSSING.			http:
			Appro
Concerned Work at this Creation to De Derformed by Deilsond Company			Contr Const
Scope of Work at this Crossing to Be Performed by Railroad Company: FLAGGING	IV. CONSTRUCTION WORK TO BE PERF		an ex on pr
		o be performed by a railroad company is:	
	Required		
** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian,	X Not Required		
or Closed/Abandoned	Coordinate with TxDOT for any work to TxDOT must issue a work order for any	b be performed by the Railroad Company. work done by the Railroad Company	VII. <u>R</u>
	prior to the work being performed.		On t
OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)			XN
NONE			
	V. RAILROAD INSURANCE REQUIREMEN	<u>115</u>	See
	Railroad reference number shall be p	provided by TxDOT CST or DO.	566
. FLAGGING & INSPECTION	The Contractor shall confirm the ins	surance requirements with	viii. s
# of Days of Railroad Flagging Expected: <u>3</u>		s are subject to change without notice.	
On this project, night or weekend flagging is:	Insurance policies must be issued fo more than one Railroad Company is op	or and on behalf of the Railroad. Where perating on the same right of way or	Conti Subc
Expected	where several Railroad Companies are		as r
X Not Expected	each Railroad Company.		
Flagging services will be provided by:	No direct compensation will be made	to the Contractor for providing the	IX. <u>EI</u>
Railroad Company: TxDOT will pay flagging invoices	insurance coverages shown below or a	any deductibles. These costs are	
X Railroad Company at no cost, because this railroad exists via TxDOT spur permit	incidental to the various bid items.		In
Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT			Col
Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized.	Type of Insurance	Amount of Coverage (Minimum)	Rai Loc
If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.	Workers Compensation	\$500,000 / \$500,000 / \$500,000	RR Sub
Contact Information for Flagging:	Commercial General Liability	\$2,000,000 / \$4,000,000	
UPRR - UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging	Business Automobile	\$2,000,000 combined single limit	
- UP.request@nrssinc.net Call Center 877-984-6777			
_			
BNSF - BNSF.info@railpros.com Call Center 877-315-0513, Select #1 for flagging	Railroad Prote	ective Liability	
	Not Required		
KCS - KCS.info@railpros.com			
Call Center 877-315-0513, Select #1 for flagging	🕅 Non - Bridge Projects	\$2,000,000 / \$6,000,000	
- Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630		\$5,000,000 ∕ \$10,000,000	
	Bridge Projects	\$3,000,000 / \$10,000,000	
			1
OTHERS SAFETY RAILWAY SERVICES, L.P. ATTN: DENNIS MCREYNOLDS (361) 576-2141	0ther		

TRACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

is project, an ROE agreement is: t Required

quired: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3) quired: UPRR Maintenance Consent Letter. TxDOT CST to assist.

quired: Contractor to obtain (see Item 5, Article 8.4)

th the following railroad companies:

ew previously approved ROE Agreement templates agreed upon between tate and Railroad, see:

//www.txdot.gov/inside-txdot/division/rail/samples.html

ved ROE Agreement templates are not to be modified by the Contractor.

actor shall not operate within Railroad Right of Way without an executed ruction & Maintenance Agreement between the State and the Railroad and ecuted ROE agreement between the Contractor and the Railroad if required oject.

AILROAD COORDINATION MEETING

nis project, a Railroad Coordination Meeting is: t Required

Item 5, Article 8.1 for more details.

UBCONTRACTORS

ractor shall not subcontract work without written consent of TxDOT. ontractors are required to maintain the same insurance coverage equired of the Contractor.

MERGENCY NOTIFICATION

Cose of Railroad Emergency I: SAFETY RAILWAY SERVICES, L.P. Troad Emergency Line at 361-576-2141 ation: DOT: 746746H Milepost: 5.980 adivision: COLETO CREEK

Texas Department	of Tra	nsp	ortatio	n		ail ivisior	1
RAILROAD SCOPE OF WORK PROJECT SPECIFIC DETAILS							
		•••			- 5		
FILE: RR Scope of Work.dgn	DN: Txl	-	CK:	DW:		СК:	
FILE: RR Scope of Work.dgn		-				CK: HIGHWAY	r
© TxDOT June 2014 REVISIONS	DN: Tx[-	Ск:	DW:		•	
© TxDOT June 2014	dn: TxI cont	DOT SECT	CK: JOB	DW: TC		HIGHWAY	ETC

DOT #: <u>NONE</u> Crossing Type: <u>** NONE</u> RR Company Owning Track at Crossing: <u>UNION PACIFIC RAILROAD</u> Operating RR Company at Track: <u>UNION PACIFIC RAILROAD</u> RR MP: from 1.640 to 2.290, 2.850 to 3.390 & 4.610 to 6.350 RR Subdivision: COLETO CREEK	Not Required	for Construction Inspection:	
City: <u>VICTORIA</u> County: <u>VICTORIA</u> CSJ at this Crossing: <u>0088-06-006</u> Highway/Roadway name crossing the railroad: <u>BU 59T</u> # of regularly scheduled trains per day at this crossing: <u>N/A</u> # of switching movements per day at this crossing: <u>N/A</u> % of estimated contract cost of work within railroad ROW: <u>N/A</u>			
Scope of Work at this Crossing to Be Performed by State Contractor: <u>SEALCOAT THE ROADWAY RUNNING PARALLEL TO THE RAILROAD</u> . ALL WORK, <u>EQUIPMENT AND TCP WILL BE OUTSIDE OF RAILROAD RIGHT OF WAY</u> .			To th ht Ap
Scope of Work at this Crossing to Be Performed by Railroad Company: NONE	IV. <u>CONSTRUCTION WORK TO BE PER</u> On this project, construction work	RFORMED BY THE RAILROAD to be performed by a railroad company is:	Co Co an on
** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian, or Closed/Abandoned		to be performed by the Railroad Company. any work done by the Railroad Company	VII.
. OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW) NONE	V. <u>RAILROAD INSURANCE REQUIREN</u>	IENTS	S S S
	Railroad reference number shall b		
<pre>II. FLAGGING & INSPECTION</pre>	The Contractor shall confirm the the Railroad as the insurance lim	insurance requirements with its are subject to change without notice.	VIII.
On this project, night or weekend flagging is:	more than one Railroad Company is where several Railroad Companies of	for and on behalf of the Railroad. Where operating on the same right of way or are involved and operate on their own eparate insurance policies in the name of	Ca Si a:
Flagging services will be provided by:		de to the Contractor for providing the r any deductibles. These costs are ms.	IX.
Railroad Company: TxDOT will pay flagging invoices Railroad Company at no cost, because this railroad exists via TxDOT spur permit Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT			(
 — Railroad Company at no cost, because this railroad exists via TxDOT spur permit ☐ Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT Contractor must incorporate flaggers into anticipated construction schedule. 	Type of Insurance	Amount of Coverage (Minimum)	
☐ Railroad Company at no cost, because this railroad exists via TxDOT spur permit ☐ Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT		Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000	F F
 Railroad Company at no cost, because this railroad exists via TxDOT spur permit Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not 	Type of Insurance		F
 Railroad Company at no cost, because this railroad exists via TxDOT spur permit Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor. Contact Information for Flagging: UPRR - UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging 	Type of Insurance Workers Compensation	\$500,000 / \$500,000 / \$500,000	F F
Railroad Company at no cost, because this railroad exists via TxDOT spur permit Dutside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor. Contact Information for Flagging: UPRR - UP.info@railpros.com	Type of Insurance Workers Compensation Commercial General Liability	\$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000	F F
 Railroad Company at no cost, because this railroad exists via TxDOT spur permit Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor. Contact Information for Flagging: UPRR - UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net 	Type of Insurance Workers Compensation Commercial General Liability Business Automobile	\$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000	F F
 Railroad Company at no cost, because this railroad exists via TxDOT spur permit Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor. Contact Information for Flagging: UPRR - UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-6777 BNSF - BNSF.info@railpros.com 	Type of Insurance Workers Compensation Commercial General Liability Business Automobile Railroad Pro	\$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000 \$2,000,000 combined single limit ptective Liability	F F
 Railroad Company at no cost, because this railroad exists via TxDOT spur permit Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor. Contact Information for Flagging: UPRR - UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-315-0513, Select #1 for flagging KCS - KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services 	Type of Insurance Workers Compensation Commercial General Liability Business Automobile Railroad Pro	\$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000 \$2,000,000 combined single limit	F F
<pre>Railroad Company at no cost, because this railroad exists via TxDOT spur permit Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor. Contact Information for Flagging: UPRR - UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-315-0513, Select #1 for flagging KCS - KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging</pre>	Type of Insurance Workers Compensation Commercial General Liability Business Automobile Railroad Pro	\$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000 \$2,000,000 combined single limit ptective Liability	F F

RACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

is project, an ROE agreement is: Required

uired: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3) uired: UPRR Maintenance Consent Letter. TxDOT CST to assist.

uired: Contractor to obtain (see Item 5, Article 8.4)

th the following railroad companies:

ew previously approved ROE Agreement templates agreed upon between ate and Railroad, see:

//www.txdot.gov/inside-txdot/division/rail/samples.html

ved ROE Agreement templates are not to be modified by the Contractor.

actor shall not operate within Railroad Right of Way without an executed ruction & Maintenance Agreement between the State and the Railroad and ecuted ROE agreement between the Contractor and the Railroad if required oject.

ILROAD COORDINATION MEETING

is project, a Railroad Coordination Meeting is: HRequired

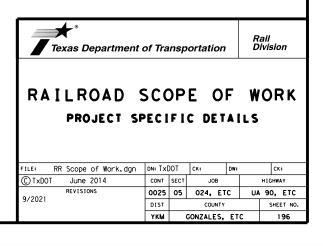
tem 5, Article 8.1 for more details.

BCONTRACTORS

actor shall not subcontract work without written consent of TxDOT. Intractors are required to maintain the same insurance coverage equired of the Contractor.

ERGENCY NOTIFICATION

Case of Railroad Emergency I: UNION PACIFIC RAILROAD Iroad Emergency Line at 888-877-7267 ation: Parallel to various crossings, near DOT 746740S Ailepost: from 1.640 to 6.350 division: COLETO CREEK



<pre>I. WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT *: 746743M Crossing Type: ** HIGHWAY OVERPASS RR Company Owning Track at Crossing: UNION PACIFIC RAILROAD Operating RR Company at Track: UNION PACIFIC RAILROAD Operating RR Company at Track: UNION PACIFIC RAILROAD RR MP: 3.680 RR Subdivision: COLETO CREEK City: VICTORIA County: VICTORIA County: VICTORIA CSJ at this Crossing: 0371-01-092 Highway/Roadway name crossing the railroad: BU 77S * of regularly scheduled trains per day at this crossing: 0 * of switching movements per day at this crossing: 0</pre>	Contractor must incorporate Construct construction schedule.		VI. <u>CONTRACT</u> On this pro Not Required: Required: Required: With the
% of estimated contract cost of work within railroad ROW: <u>1%</u> Scope of Work at this Crossing to Be Performed by State Contractor: <u>SEALCOAT THE ROADWAY OVER THE RAILROAD CROSSING.</u> <u>DURING THE ONE LANE TWO-WAY TRAFFIC CONTROL OPERATIONS A RAILROAD FLAGGER</u> <u>AND CONSTRUCTION FLAGGER MUST BE PRESENT FOR THE DURATION OF THE WORK</u> <u>THROUGH UPRR RIGHT OF WAY</u> .			To view pro the State of http://www. Approved R(Contractor Constructio
Scope of Work at this Crossing to Be Performed by Railroad Company: NONE ** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian, or Closed/Abandoned	Required	o be performed by a railroad company is: o be performed by the Railroad Company.	vii. <u>RAILRO</u> On this pr
II. OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)	V. RAILROAD INSURANCE REQUIREMEN Railroad reference number shall be		☐ Not Requ X Required See Item 5
<pre>III. FLAGGING & INSPECTION # of Days of Railroad Flagging Expected: 3 On this project, night or weekend flagging is: Expected X Not Expected Flagging services will be provided by: Railroad Company: TxDOT will pay flagging invoices Railroad Company at no cost, because this railroad exists via TxDOT spur permit X Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT</pre>	The Contractor shall confirm the in: the Railroad as the insurance limit: Insurance policies must be issued for more than one Railroad Company is on where several Railroad Companies are separate rights of way, provide separate each Railroad Company.	surance requirements with s are subject to change without notice. or and on behalf of the Railroad. Where perating on the same right of way or e involved and operate on their own arate insurance policies in the name of to the Contractor for providing the any deductibles. These costs are	VIII. <u>SUBCON</u> Contractor Subcontrac as require IX. <u>EMERGE</u> In Case Call: U
Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor. Contact Information for Flagging: UPRR - UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging - UP.request@nrssinc.net	Type of Insurance Workers Compensation Commercial General Liability Business Automobile	Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000 \$2,000,000 combined single limit	Railroa Locatio RR Mile Subdivi
 BNSF - BNSF.info@railpros.com Call Center 877-315-0513, Select #1 for flagging KCS - KCS.info@railpros.com 	Railroad Prot	ective Liability	
Call Center 877-315-0513, Select #1 for flagging - Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630 OTHERS	Non - Bridge Projects Bridge Projects Other	\$2,000,000 / \$6,000,000 \$5,000,000 / \$10,000,000	

CONTRACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

On this project, an ROE agreement is: Not Required

Required: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3) Required: UPRR Maintenance Consent Letter. TxDOT CST to assist.

Required: Contractor to obtain (see Item 5, Article 8.4)

With the following railroad companies:

To view previously approved ROE Agreement templates agreed upon between he State and Railroad, see:

http://www.txdot.gov/inside-txdot/division/rail/samples.html

pproved ROE Agreement templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed ROE agreement between the Contractor and the Railroad if required on project.

RAILROAD COORDINATION MEETING

On this project, a Railroad Coordination Meeting is: Not Required

See Item 5, Article 8.1 for more details.

. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are required to maintain the same insurance coverage as required of the Contractor.

EMERGENCY NOTIFICATION

In Case of Railroad Emergency COII: UNION PACIFIC RAILROAD Railroad Emergency Line at 888-877-7267 Location: DOT: 746743M RR Milepost: 3.680 Subdivision: COLETO CREEK

Texas Department	of Tra	nsp	ortatio	'n		Pail Division
RAILROAD	sco)P	ΕC)F	W	ORK
PROJECT SF	PECI	FI	C DE	TAI	LS	
PROJECT SF	PECI	-	C DE	T A (LS	CK:
		-			LS	
FILE: RR Scope of Work, dgn © TxDOT June 2014 REVISIONS	DN: Tx	DOT	Ск:	DW:		CK:
FILE: RR Scope of Work.dgn © TxDOT June 2014	DN: TxI CONT	DOT	CK: JOB	DW: ETC		CK: HIGHWAY

I. WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT *: 746541P Crossing Type: ** AT GRADE RR Company Owning Track at Crossing: UNION PACIFIC RAILROAD Operating RR Company at Track: UNION PACIFIC RAILROAD Operating RR Company at Track: UNION PACIFIC RAILROAD RR MP: 22.710 RR Subdivision: CUERO City: VICTORIA County: VICTORIA County: VICTORIA CSJ at this Crossing: 2601-01-016 Highway/Roadway name crossing the railroad: FM 2615 * of regularly scheduled trains per day at this crossing: 8	Contractor must incorporate Construct construction schedule. Not Required Required: Contact Information for		VI. <u>CONTRAC</u> On this pro Not Requi Required: Required: With th
<pre>* of switching movements per day at this crossing:</pre>	IV. <u>CONSTRUCTION WORK TO BE PERFO</u> On this project, construction work t Required	ORMED BY THE RAILROAD o be performed by a railroad company is:	To view pro the State of http://www. Approved Re Contractor Construction an execute on project.
** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian, or Closed/Abandoned II. OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)	Not Required	b be performed by the Railroad Company. y work done by the Railroad Company	VII. <u>RAILRO</u> On this pr Not Requ
NONE III. FLACCINC & INSPECTION * of Days of Railroad Flagging Expected: _3	Insurance policies must be issued for more than one Railroad Company is or where several Railroad Companies are separate rights of way, provide sepa each Railroad Company.	provided by TxDOT CST or DO. surance requirements with s are subject to change without notice. or and on behalf of the Railroad. Where perating on the same right of way or e involved and operate on their own arate insurance policies in the name of to the Contractor for providing the any deductibles. These costs are	X Required See Item 9 VIII. <u>SUBCON</u> Contractor Subcontrac as require IX. <u>EMERGE</u> In Cose Coll: U
Contractor must incorporate flaggers into anticipated construction schedule. The Roilroad requires a 30 day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor. Contact Information for Flagging: VUPRR - UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging - UP.request@nrssinc.net	Type of Insurance Workers Compensation Commercial General Liability Business Automobile	Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000 \$2,000,000 combined single limit	Railroa Locatio RR Mile Subdivi
Call Center 877-984-6777 BNSF - BNSF.info@railpros.com Call Center 877-315-0513, Select #1 for flagging KCS - KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging - Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630	Railroad Prote	<pre>ective Liability \$2,000,000 / \$6,000,000 \$5,000,000 / \$10,000,000</pre>	
OTHERS	0ther		

ONTRACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

this project, an ROE agreement is: Not Required

Required: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3) Required: UPRR Maintenance Consent Letter. TxDOT CST to assist.

Required: Contractor to obtain (see Item 5, Article 8.4)

With the following railroad companies:

view previously approved ROE Agreement templates agreed upon between s State and Railroad, see:

tp://www.txdot.gov/inside-txdot/division/rail/samples.html

roved ROE Agreement templates are not to be modified by the Contractor.

ntractor shall not operate within Railroad Right of Way without an executed nstruction & Maintenance Agreement between the State and the Railroad and executed ROE agreement between the Contractor and the Railroad if required project.

RAILROAD COORDINATION MEETING

this project, a Railroad Coordination Meeting is: Not Required

ee Item 5, Article 8.1 for more details.

SUBCONTRACTORS

ntractor shall not subcontract work without written consent of TxDOT. bcontractors are required to maintain the same insurance coverage required of the Contractor.

EMERGENCY NOTIFICATION

In Case of Railroad Emergency Call: UNION PACIFIC RAILROAD Railroad Emergency Line at 888-877-7267 Location: DOT: 746541P RR Milepost: 22.710 Subdivision: CUERO

Texas Department of	of Tra	nsp	ortation			ail ivisio	'n
RAILROAD SCOPE OF WORK PROJECT SPECIFIC DETAILS							
FILE: RR Scope of Work.dgn	dn: Tx[00T	CK:	DW:		СК	:
© TxDOT June 2014	CONT	SECT	JOB			HIGHW/	14
REVISIONS	0025	05	024. ET	C I	114	00	
	0025		024, 21	<u>د</u>	04	90,	ETC
9/2021	DIST		COUNTY				ETC ET NO.

I. WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT *: NONE Crossing Type: ** NONE RR Company Owning Track at Crossing: UNION PACIFIC RAILROAD Operating RR Company at Track: UNION PACIFIC RAILROAD Operating RR Company at Track: UNION PACIFIC RAILROAD RR MP: from 243.830 to 244.960 RR Subdivision: ANGLETON City: LOLITA County: JACKSON CSJ at this Crossing: 0497-02-044 Highway/Roadway name crossing the railroad: FM 616 * of regularly scheduled trains per day at this crossing: N/A * of switching movements per day at this crossing: N/A	Contractor must incorporate Construction schedule.		VI. <u>CONTRACT</u> On this pro Not Required: Required: Required: With the
% of estimated contract cost of work within railroad ROW: <u>N/A</u> Scope of Work at this Crossing to Be Performed by State Contractor: <u>SEALCOAT THE ROADWAY RUNNING PARALLEL TO THE RAILROAD. ALL WORK,</u> EQUIPMENT AND TCP WILL BE OUTSIDE OF RAILROAD RIGHT OF WAY.			To view pre the State of http://www. Approved RC Contractor
Scope of Work at this Crossing to Be Performed by Railroad Company: NONE ** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian, or Closed/Abandoned	Required	ORMED BY THE RAILROAD to be performed by a railroad company is: o be performed by the Railroad Company.	Constructic an executed on project.
II. OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)	TxDOT must issue a work order for an prior to the work being performed.	y work done by the Railroad Company	VII. <u>RAILRO</u> On this pr X Not Requi Required See Item 5
<pre>III. FLAGGING & INSPECTION * of Days of Railroad Flagging Expected:N/A On this project, night or weekend flagging is: Expected Not Expected Flagging services will be provided by: Railroad Company: TxDOT will poy flagging invoices Railroad Company at no cost, because this railroad exists via TxDOT spur permit Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT</pre>	Insurance policies must be issued f more than one Railroad Company is o where several Railroad Companies ar separate rights of way, provide sep each Railroad Company.	surance requirements with s are subject to change without notice. or and on behalf of the Railroad. Where perating on the same right of way or e involved and operate on their own arate insurance policies in the name of to the Contractor for providing the any deductibles. These costs are	VIII. <u>SUBCON</u> Contractor Subcontrac as required IX. <u>EMERGE</u> In Case Call: UN
Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor. Contact Information for Flagging: UPRR - UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging - UP.request@rssinc.net	Type of Insurance Workers Compensation Commercial General Liability Business Automobile	Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000 \$2,000,000 combined single limit	Railroad Locatior RR Miler Subdivis
Call Center 877-984-6777 BNSF - BNSF.info@railpros.com Call Center 877-315-0513, Select #1 for flagging	Railroad Prot	ective Liability	
 KCS - KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630 	Non - Bridge Projects	\$2,000,000 / \$6,000,000 \$5,000,000 / \$10,000,000	
OTHERS	C Other		

RACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

is project, an ROE agreement is: Required

uired: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3) guired: UPRR Maintenance Consent Letter. TxDOT CST to assist.

uired: Contractor to obtain (see Item 5, Article 8.4)

th the following railroad companies:

ew previously approved ROE Agreement templates agreed upon between tate and Railroad, see:

//www.txdot.gov/inside-txdot/division/rail/samples.html

ved ROE Agreement templates are not to be modified by the Contractor.

actor shall not operate within Railroad Right of Way without an executed ruction & Maintenance Agreement between the State and the Railroad and ecuted ROE agreement between the Contractor and the Railroad if required oject.

ILROAD COORDINATION MEETING

nis project, a Railroad Coordination Meeting is: t Required

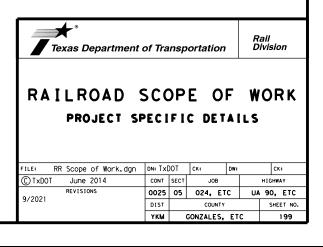
Item 5, Article 8.1 for more details.

BCONTRACTORS

actor shall not subcontract work without written consent of TxDOT. Ontractors are required to maintain the same insurance coverage equired of the Contractor.

ERGENCY NOTIFICATION

Case of Railroad Emergency I: UNION PACIFIC RAILROAD Iroad Emergency Line at 888-877-7267 ation: Parallel to various crossings, near DOT 448697S Milepost: from 243.830 to 244.960 division: ANGLETON



construction schedule.		A- 11.1
		On this pr
Required: Contact Information for	Construction Inspection:	🗌 Required
		🗌 Required
		🗌 Required
		With th
		To view pr
		the State
		http://www
		Approved F
		Contractor Construct
		an execute on project
Required	· · · · · · · · · · · · · · · · · · ·	
X Not Required		
		VII. RAILR
prior to the work being performed.	work done by the Kathoda company	On this p
		🗙 Not Req
V. RATI ROAD INSURANCE REQUIREMEN	ITS	🗌 Require
		See Item
	-	VIII. SUBCO
		Contracto Subcontra
		as requir
each Railroad Company.		IX. EMERG
	•	In Case
		Coll: F
Type of Insurance	Amount of Coverage (Minimum)	Railroo Locatio
Workers Compensation	\$500,000 / \$500,000 / \$500,000	RR Mile Subdivi
Commercial General Liability	\$2,000,000 / \$4,000,000	
Business Automobile	· · · ·	
Railroad Prote	ctive Liability	
Not Required		
Non - Bridge Projects	\$2 000 000 / \$6 000 000	
Bridge Projects	\$5,000,000 / \$10,000,000	
0ther		
	Iv. CONSTRUCTION WORK TO BE PERF(On this project, construction work to Required Not Required Coordinate with TxDOT for any work to TxDOT must issue a work order for any prior to the work being performed. V. RAILROAD INSURANCE REQUIREMEN Railroad reference number shall be p The Contractor shall confirm the ins the Railroad as the insurance limits Insurance policies must be issued for more than one Roilroad Company is op where several Roilroad Companies are separate rights of way, provide separate rights of way provide separate rights of	□ Required: Contact Information for Construction Inspection: □ □

ONTRACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

this project, an ROE agreement is: Not Required

Required: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3) Required: UPRR Maintenance Consent Letter. TxDOT CST to assist.

Required: Contractor to obtain (see Item 5, Article 8.4)

With the following railroad companies:

view previously approved ROE Agreement templates agreed upon between s State and Railroad, see:

p://www.txdot.gov/inside-txdot/division/rail/samples.html

roved ROE Agreement templates are not to be modified by the Contractor.

struction shall not operate within Railroad Right of Way without an executed struction & Maintenance Agreement between the State and the Railroad and executed ROE agreement between the Contractor and the Railroad if required project.

RAILROAD COORDINATION MEETING

this project, a Railroad Coordination Meeting is: Not Required

Item 5, Article 8.1 for more details.

SUBCONTRACTORS

ntractor shall not subcontract work without written consent of TxDOT. Decontractors are required to maintain the same insurance coverage required of the Contractor.

EMERGENCY NOTIFICATION

n Case of Railroad Emergency all: POINT COMFORT & NORTHERN RAILWAY ailroad Emergency Line at 800-800-3490 ocation: DOT: 841156V R Milepost: 0.100 ubdivision: POINT COMFORT

							_
Texas Department	of Tra	nsp	ortatic	on		Pail Division	
RAILROAD	sco)P	EC	DF	W	ORK	
PROJECT SP	PECI	FI	C DE	TAI	LS		
PROJECT SF	PECI	-	C DE	TA I	LS	CK:	
		-		Dw:	LS		
FILE: RR Scope of Work, dgn C TxDOT June 2014 REVISIONS	DN: Tx		CK:	Dw:		CK:	
FILE: RR Scope of Work, dgn © TxDOT June 2014	DN: TX CONT	DOT SECT	CK: JOB	Dw: B ETC		CK: HIGHWAY	

<pre>I. WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT *: NONE Crossing Type: ** NONE RR Company Owning Track at Crossing: UNION PACIFIC RAILROAD Operating RR Company at Track: UNION PACIFIC RAILROAD RR MP: from 253.250 to 258.990 RR Subdivision: ANGLETON City: FRANCITAS County: JACKSON CSJ at this Crossing: 0497-03-011 Highway/Roadway name crossing the railroad: FM 616 # of regularly scheduled trains per day at this crossing: N/A # of switching movements per day at this crossing: N/A</pre>	Contractor must incorporate Construct construction schedule. X Not Required Required: Contact Information for		VI. <u>CONTRAC</u> On this pro Not Requi Required: Required: Required: With the
% of estimated contract cost of work within railroad ROW: <u>N/A</u> Scope of Work at this Crossing to Be Performed by State Contractor: <u>SEALCOAT THE ROADWAY RUNNING PARALLEL TO THE RAILROAD. ALL WORK,</u> <u>EQUIPMENT AND TCP WILL BE OUTSIDE OF RAILROAD RIGHT OF WAY.</u> Scope of Work at this Crossing to Be Performed by Railroad Company: <u>NONE</u>	IV. <u>CONSTRUCTION WORK TO BE PERF</u> On this project, construction work t	ORMED BY THE RAILROAD o be performed by a railroad company is:	To view pre the State of http://www. Approved R(Contractor Construction an executed on project.
** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian, or Closed/Abandoned II. OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW) NONE	Required Not Required Coordinate with TxDOT for any work to TxDOT must issue a work order for any prior to the work being performed.	o be performed by the Railroad Company. y work done by the Railroad Company	VII. <u>RAILRO</u> On this pr X Not Requ Required
NONE	V. RAILROAD INSURANCE REQUIREMEN		See Item 5
<pre>III. FLAGGING & INSPECTION * of Days of Railroad Flagging Expected: _N/A On this project, night or weekend flagging is: Description: Description: Description: Reserved Flagging services will be provided by: Railroad Company: TxDOT will pay flagging invoices Railroad Company at no cost, because this railroad exists via TxDOT spur permit Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT</pre>	The Contractor shall confirm the in- the Railroad as the insurance limit: Insurance policies must be issued for more than one Railroad Company is of where several Railroad Companies are separate rights of way, provide sepa- each Railroad Company.	surance requirements with surance requirements with s are subject to change without notice. or and on behalf of the Railroad. Where perating on the same right of way or e involved and operate on their own arate insurance policies in the name of to the Contractor for providing the any deductibles. These costs are	VIII. <u>SUBCON</u> Contractor Subcontrac as required IX. <u>EMERGE</u> In Case Call: UN
Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor. Contact Information for Flagging:	Type of Insurance Workers Compensation Commercial General Liability	Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000	Railroad Location RR Miler Subdivis
Call Center 877-315-0513, Select #1 for flagging - UP.request@nrssinc.net Call Center 877-984-6777	Business Automobile	\$2,000,000 combined single limit	
BNSF - BNSF.info@railpros.com Call Center 877-315-0513, Select #1 for flagging	Railroad Prote	ective Liability	
<pre>KCS - KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging - Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630</pre>	Not Required Non - Bridge Projects Bridge Projects Other	\$2,000,000 / \$6,000,000 \$5,000,000 / \$10,000,000	

TRACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

nis project, an ROE agreement is: t Required

quired: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3)

quired: Contractor to obtain (see Item 5, Article 8.4)

ith the following railroad companies:

ew previously approved ROE Agreement templates agreed upon between tate and Railroad, see:

//www.txdot.gov/inside-txdot/division/rail/samples.html

ved ROE Agreement templates are not to be modified by the Contractor.

ractor shall not operate within Railroad Right of Way without an executed truction & Maintenance Agreement between the State and the Railroad and kecuted ROE agreement between the Contractor and the Railroad if required roject.

AILROAD COORDINATION MEETING

his project, a Railroad Coordination Meeting is: ot Required

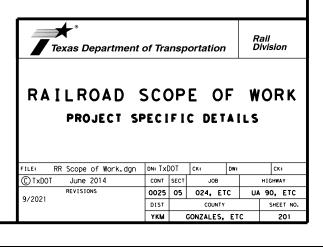
Item 5, Article 8.1 for more details.

UBCONTRACTORS

ractor shall not subcontract work without written consent of TxDOT. ontractors are required to maintain the same insurance coverage equired of the Contractor.

MERGENCY NOTIFICATION

Case of Railroad Emergency 1: UNION PACIFIC RAILROAD Troad Emergency Line at 888-877-7267 cation: Parallel to various crossings, near DOT 448707V Milepost: from 253.250 to 258.990 odivision: ANGLETON



<pre>I. WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT *: NONE Crossing Type: ** NONE RR Company Owning Track at Crossing: KCS RAILWAY Operating RR Company at Track:</pre>	Contractor must incorporate Construct construction schedule. X Not Required Required: Contact Information for		VI. <u>CONTRAC</u> On this pro X Not Requi Required: Required: Required: With the
 * of switching movements per day at this crossing: <u>N/A</u> % of estimated contract cost of work within railroad ROW: <u>N/A</u> Scope of Work at this Crossing to Be Performed by State Contractor: <u>SEALCOAT THE ROADWAY RUNNING PERPENDICULAR TO THE RAILROAD.</u> 			To view protokow to the State of the State o
Scope of Work at this Crossing to Be Performed by Railroad Company: NONE	IV. <u>CONSTRUCTION WORK TO BE PERF(</u> On this project, construction work to Required X Not Required	ORMED BY THE RAILROAD o be performed by a railroad company is:	Contractor Constructi an execute on project
** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian, or Closed/Abandoned II. OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)	Coordinate with TxDOT for any work to TxDOT must issue a work order for any prior to the work being performed.	b be performed by the Railroad Company. y work done by the Railroad Company	VII. <u>RAILRO</u> On this pr Not Requ
NONE	V. RAILROAD INSURANCE REQUIREMEN	NTS	Required See Item S
<pre>III. FLAGGING & INSPECTION # of Days of Railroad Flagging Expected: _N/A On this project, night or weekend flagging is:</pre>	Insurance policies must be issued for more than one Railroad Company is op where several Railroad Companies are separate rights of way, provide sepa each Railroad Company.	surance requirements with s are subject to change without notice. or and on behalf of the Railroad. Where berating on the same right of way or e involved and operate on their own arate insurance policies in the name of to the Contractor for providing the any deductibles. These costs are	VIII. <u>SUBCOM</u> Contractor Subcontrac as require IX. <u>EMERGE</u> In Case Call: K
Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized.	Type of Insurance	Amount of Coverage (Minimum)	Railroa Locatio
If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.	Workers Compensation	\$500,000 / \$500,000 / \$500,000	RR Mile Subdivi
Contact Information for Flagging: UPRR - UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging - UP.request@nrssinc.net	Commercial General Liability Business Automobile	\$2,000,000 / \$4,000,000 \$2,000,000 combined single limit	
Call Center 877-984-6777	Railroad Prote	ective Liability	
Call Center 877-315-0513, Select #1 for flagging	Not Required		
 KCS - KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630 	Non - Bridge Projects	\$2,000,000 / \$6,000,000 \$5,000,000 / \$10,000,000	
	0ther		

DATE: FII F:

ACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

project, an ROE agreement is: quired

red: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3) red: UPRR Maintenance Consent Letter. TxDOT CST to assist.

ed: Contractor to obtain (see Item 5, Article 8.4)

the following railroad companies:

previously approved ROE Agreement templates agreed upon between e and Railroad, see:

ww.txdot.gov/inside-txdot/division/rail/samples.html

ROE Agreement templates are not to be modified by the Contractor.

or shall not operate within Railroad Right of Way without an executed tion & Maintenance Agreement between the State and the Railroad and ted ROE agreement between the Contractor and the Railroad if required ct.

ROAD COORDINATION MEETING

project, a Railroad Coordination Meeting is: equired

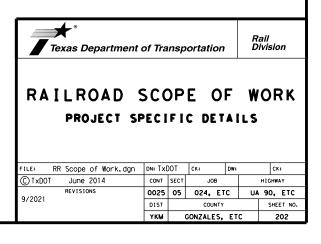
5, Article 8.1 for more details.

ONTRACTORS

tor shall not subcontract work without written consent of TxDOT. ractors are required to maintain the same insurance coverage ired of the Contractor.

GENCY NOTIFICATION

se of Railroad Emergency KCS RAILWAY oad Emergency Line at 877-527-9464 ion: Perpendicular to various crossings, near DOT 927037D lepost: from 955.070 to 955.350 vision: ROSENBERG



RK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, GHWAY UNDERPASS,PEDESTRIAN, OR CLOSED/ABANDONED)	Contractor must incorporate Construc	tion Inspection into anticipated	VI. CONTRA
	construction schedule.		On this
DT *: _746643H rossing Type: ** AT GRADE	X Not Required		🗙 Not Re
R Company Owning Track at Crossing: <u>KCS RAILWAY</u> Derating RR Company at Track: TEXAS MEXICAN RAILWAY	Required: Contact Information for	or Construction Inspection:	
R MP: 959.410			
R Subdivision: <u>ROSENBERG</u>			🗌 Requi
bunty: JACKSON			
SJ at this Crossing: <u>1945-01-023</u> ighway/Roadway name crossing the railroad: FM 1822			Requi
of regularly scheduled trains per day at this crossing: <u>10</u>			With
of switching movements per day at this crossing: 0 of estimated contract cost of work within railroad ROW: 1%			
			To view
cope of Work at this Crossing to Be Performed by State Contractor:			the Sta
EALCOAT THE ROADWAY UP TO THE RAILROAD CROSSING.			http://
			Approve
			Contrac
ope of Work at this Crossing to Be Performed by Railroad Company:			Constru
LAGGING	IV. <u>CONSTRUCTION WORK TO BE PER</u> On this project, construction work	to be performed by a railroad company is:	an exec on proj
	Required		
	── ▼ Not Required		
Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian, or Closed/Abandoned	Coordinate with TxDOT for any work	to be performed by the Railroad Company.	
	TxDOT must issue a work order for a prior to the work being performed.	ny work done by the Railroad Company	VII. RAI
THER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)	piror to the work being performed		On thi
			Not
ONE	V. RAILROAD INSURANCE REQUIREME	INTS	Req
			See It
FLAGGING & INSPECTION	Railroad reference number shall be	-	
of Days of Railroad Flagging Expected: _3_	The Contractor shall confirm the in the Railroad as the insurance limi	ts are subject to change without notice.	VIII. <u>SUB</u>
this project, night or weekend flagging is:		for and on behalf of the Railroad. Where	Contra Subcon
Expected		operating on the same right of way or re involved and operate on their own	as req
Not Expected	separate rights of way, provide se each Railroad Company,	parate insurance policies in the name of	
agging services will be provided by:		e to the Contractor for providing the	IX. <u>EME</u>
Railroad Company: TxDOT will pay flagging invoices	insurance coverages shown below or	any deductibles. These costs are	
Railroad Company at no cost, because this railroad exists via TxDOT spur permit	incidental to the various bid item	s.	In C
Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT			Colla
ntractor must incorporate flaggers into anticipated construction schedule. e Railroad requires a 30 day notice if their flaggers are to be utilized. Contractor falls behind schedule due to their own negligence and is not	Type of Insurance	Amount of Coverage (Minimum)	Roil Loco RR M
ady for scheduled flaggers, any flagging charges will be paid by Contractor.	Workers Compensation	\$500,000 / \$500,000 / \$500,000	Subd
ntact Information for Flagging:	Commercial General Liability	\$2,000,000 / \$4,000,000	
UPRR - UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging	Business Automobile		
- UP.request@nrssinc.net		\$2,000,000 combined single limit	
Call Center 877-984-6777			
BNSF - BNSF.info@roilpros.com	Railroad Pro	tective Liability	
Call Center 877-315-0513, Select #1 for flagging			
KCS - KCS.info@railpros.com	Not Required		
Call Center 877-315-0513, Select #1 for flagging	Non - Bridge Projects	\$2,000,000 / \$6,000,000	
- Bottom Line On-Track Safety Services		\$2,000,000 / \$6,000,000	
bottomline076@aol.com, 903-767-7630	Bridge Projects	\$5,000,000 / \$10,000,000	
	0ther		
OTHERS			
OTHERS			

ACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

project, an ROE agreement is: quired

red: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3) red: UPRR Maintenance Consent Letter. TxDOT CST to assist.

ed: Contractor to obtain (see Item 5, Article 8.4)

the following railroad companies:

previously approved ROE Agreement templates agreed upon between e and Railroad, see:

ww.txdot.gov/inside-txdot/division/rail/samples.html

ROE Agreement templates are not to be modified by the Contractor.

or shall not operate within Railroad Right of Way without an executed tion & Maintenance Agreement between the State and the Railroad and ted ROE agreement between the Contractor and the Railroad if required ct.

ROAD COORDINATION MEETING

project, a Railroad Coordination Meeting is: equired

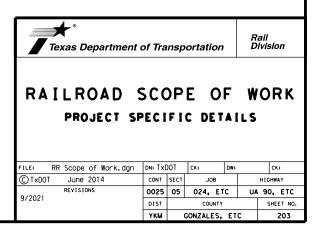
5, Article 8.1 for more details.

ONTRACTORS

tor shall not subcontract work without written consent of TxDOT. ractors are required to maintain the same insurance coverage ired of the Contractor.

GENCY NOTIFICATION

se of Railroad Emergency KCS RAILWAY oad Emergency Line at 877-527-9464 ion: DOT: 746643H lepost: 959.410 vision: ROSENBERG



PART 1 - GENERAL

DESCRIPTION 1.01

This project includes construction work within the right of way and/or properties of the Railroad and adjacent to its tracks, wire lines and other facilities. These sheets describe the minimum special requirements for coordination with the Railroad when working upon, over or under Railroad Right of Way or when impacting current or future Railroad operations. Coordinate with the Railroad while performing the work outlined herein, and afford the same cooperation with the Railroad as with TxDOT. Complete all submittals and work in accordance with TxDOT Standard Specifications, Railroad Guidelines and AREMA recommendations as modified by these minimum special requirements or as directed in writing by the Railroad Designated Representative.

For purposes of this project, the Railroad Designated Representative is the person or persons designated by the Railroad Manager of Industry and Public Projects to handle specific tasks related to the project.

1.02 REQUEST FOR INFORMATION / CLARIFICATION

Submit Requests for Information ("RFI") involving work within any Railroad Right of Way to the TxDOT Engineer. The TxDOT Engineer will submit the RFI to the Railroad Designated Representative for review and approval for RFI's corresponding to work within Railroad Right of Way. Allow six (6) weeks total time for review and approval, which includes four (4) weeks for review and approval by the Railroad.

1.03 PLANS / SPECIFICATIONS

TxDOT has received written Railroad approval of the plans and specifications for this project. Any revisions or changes in the plans after award of the Contract must have the approval of TxDOT and the Railroad.

PART 2 - UTILITIES AND FIBER OPTIC

Construct all utility installations in accordance with current AREMA recommendations, Railroad, TxDOT and owning utility specifications and requirements. Railroad general guidelines can be found on the Railroad website or by contacting the Railroad Designated Representative.

PART 3 - CONSTRUCTION

3.01 GENERAL

- A. Perform all work in compliance with all applicable Railroad, Federal Railroad Administration (FRA), and TxDOT rules and regulations. Arrange and conduct work in a manner that does not endanger or interfere with the safe operation of the tracks and property of the Railroad and the traffic moving on such tracks, or the wires, signals and other property of the Railroad, its tenants or licensees, at or in the vicinity of the Work. The safe operation of railroad train movements takes precedence over any work to be performed by the Contractor. The Contractor is responsible for train delay cost and lost revenue claims due to any delays or interruption of train operations resulting from Contractor's construction or other activities.
- B. Construction activities within 15 feet of the operational tracks will only be allowed if absolutely necessary and the Railroad's Designated Representative grants approval. Construction activities within 15 feet of the operational track(s) preferably allow the tracks to stay operational. In such cases, coordination and approval by the Railroad Track Manager is required with regard to schedule, flagging, and slow orders. See Sections 3.07 and 3.08 for additional information.
- C. Provide track protection for all work equipment (including rubber tired equipment) operating within 25 feet from nearest rail. When not in use, keep Contractor machinery and materials at least 50 feet from the Railroad's nearest track.
- D. Vehicular crossings of railroad track are allowed only at existing crossings, or haul road crossings developed with Railroad approval.
- E. The Contractor is also advised that new railroad facilities these facilities are delineated in the plans. Be aware of the limits of responsibilities and coordinate efforts with the Railroad and TxDOT.
- F. Railroad requirements do not allow work within 50 feet of track centers when a train passes the work site and all personnel must clear the area within 50 feet of the track may be pursued as outlined in 3.02 and 3.03.
- G. All permanent clearances shall be verified before project closing.

3.02 RAILROAD OPERATIONS

- A. Trains and/or equipment are expected on any track, at any in either direction. Become familiar with the train time, schedules in this location and structure bid assuming intermittent track windows in this period, as defined in Paragraph B that follows.
- B. All railroad tracks within and adjacent to the contract site are active, and rail traffic over these facilities shall be maintained throughout the Project. Activities may include both through moves and switching moves to local customers. raircad traffic and operations will occur continuously throughout the day and night on these tracks and shall be maintained at all times as defined herein. Coordinate and schedule the work so that construction activities do not interfere with railroad operations.
- C. Coordinate work windows with TxDOT and the Railroad's Designated Representative. Types of work windows include Conditional Work Windows and Absolute Work Windows, as defined below:
 - Conditional Work Window: A Conditional Work Window is a period of time that railroad operations have priority over construction activities. When construction activities may occur on and/or adjacent to the railroad tracks within 25 feet of the nearest track, a railroad flag person will be required. At the direction of the railroad flag person, upon approach of a train, and when trains are present on the tracks, the tracks must be cleared (i.e., no construction equipment, materials or personnel within 25 feet, or as directed by the Railroad Designated Representative, from the tracks). Conditional Work Windows are available for the Project.
 - 2. Absolute Work Window: An Absolute Work Window is a period of Absolute Work Window: An Absolute Work Window is a period of time that construction activities are given priority over railroad operations. During this time frame, the designated railroad track(s) will be inactive for train movements and may be fouled by the Contractor. At the end of an Absolute Work Window, the railroad tracks and/or signals must be completely operational for train operations and all Railroad, Public Utilities Commission (PUC) and FRA requirements, codes and regulations for operational tracks must be satisfied. In the situation where the operational tracks and/or signals bave been affected the Railroad operating tracks and/or signals have been affected, the Railroad will perform inspections of the work prior to placing that track back into service. Railroad flag persons will be required for construction activities requiring an Absolute Work Window. Absolute Work Windows will not generally be granted. Any request will require a detailed explanation for Railroad review.

3.03 RIGHT OF ENTRY. ADVANCE NOTICE AND WORK STOPPAGES

- A. Do not perform any work within Railroad Right of Way without a valid executed Right of Entry Agreement if required on this project.
- B. Give advance notice to the Railroad as required in the "Contractor's Right of Entry Agreement" before commencing work in connection with construction upon or over Railroad Right of Way and observe the Railroad's rules and regulations with respect thereto.
- C. Perform all work upon Railroad Right of Way in a manner to avoid interference with or endanger the operations of the Railroad. Whenever work may affect the operations or safety of trains, submit the work method to the Railroad Designated Representative for approval. Approval does not relieve the Contractor from liability. Do not commence any work which requires flagging service or inspection service until the flagging protection required by the Railroad is available at the job site. See Section 3.15 for railroad flagging requirements.
- D. Make requests in writing for both Absolute and Conditional Work Windows, at least 30 days in advance of any work. Include in the written request: Exactly what the work entails.

 - The days and hours that work will be performed. The exact location of work, and proximity to the tracks. The type of window requested and the amount of time requested. 3.
- The designated contact person.

Provide a written confirmation notice to the Railroad at least 48 hours before commencing work in connection with approved work windows when work is within 25 feet of nearest rail. Perform all work in accordance with previously approved work plans.

E. Make provisions to protect operations and property of the Railroad should . Make provisions to protect operations and property of the Railroad should a condition arising from, or in connection with the work, require immediate and unusual action. If in the judgment of the Railroad Designated Representative such provisions are insufficient, the Railroad Designated Representative may require or provide such provisions as deemed necessary. In any event, such provisions shall be at the Contractor's expense and without cost to the Railroad or TxDOT. The Railroad or TxDOT shall have the right to order the Contractor to temporarily cease operations in the event of an emergency or, if in the opinion of the Railroad Designated Representative, the Contractor's operations could endanger railroad operations. In the event of such an order, immediately notify TxDOT of the order.

INSURANCE 3.04

"UPRR,BNSF,KCS/TEXMEX will not accept on-track safety training certificates from other railroads. Refer to Railroad specific contractor right of entry for training information."

3.06 COOPERATION

MINIMUM CONSTRUCTION CLEARANCES FOR FALSEWORK AND OTHER 3.07 TEMPORARY STRUCTURES

of construction:

3,08

Do not begin work upon or over Railroad Right of Way until furnishing the Railroad with the insurance policies, binders, certificates and endorsements required by the "Contractor's Right of Entry Agreement", and until the Railroad Designated Representative has advised TxDOT that such insurance is in accordance with the Agreement.

3.05 RAILROAD SAFETY ORIENTATION

A. Complete the railroad course "Orientation for Contractor's Safety", and maintain current registration prior to working on railroad property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

Know and follow the "Contractor's Right of Entry Agreement" EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

The Railroad will cooperate with Contractor so that work may be conducted in an efficient manner, and will cooperate with Contractor in enabling use of Railroad Right of Way in performing the work.

Abide by the following minimum temporary clearances during the course

A. 15' - 0" (BNSF) (UPRR) and 14'-0" (KCS) horizontal from

centerline of track B. 22' (KCS) and 21' - 6" (UPRR & BNSF) vertically above top of rail.

For construction clearance less than listed above, obtain local Railroad Operating Unit review and approval.

APPROVAL OF REDUCED CLEARANCES

A. Maintain minimum track clearances during construction as specified in Section 3.07.

B. Submit any proposed infringement on the specified minimum clearances to the Railroad Designated Representative through TxDOT at least 30 days in advance of the work. Do not proceed with such infringement without written approval by the Railroad Designated Representative.

C. Do not commence work involving an approved infringement without receiving written assurance from the Railroad Designated Representative that arrangements have been made for any necessary flagging service.

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RAILROAD REQUIREMENTS FOR NON-BRIDGE CONSTRUCTION PROJECTS							
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3.09 MAINTENANCE OF RAILROAD FACILITIES

- A. Maintain all ditches and drainage structures free of silt or other aceas and any other damage within Railroad Right of Way and repair any other damage to the property of the Railroad, or its tenants.
- B. Perform all such maintenance and repair of damages due to the Contractors's operations at Contractor's expense.
- C. Submit a proposed method of erosion control for review by the Railroad prior to beginning any grading on the project site. Comply with all applicable local, state and federal regulations when developing and implementing such erosion control.

3. 10 SITE INSPECTIONS BY RAILROAD'S DESIGNATED REPRESENTATIVE

- A. In addition to the office reviews of construction submittals, Representative at significant points during construction, including the following if applicable:
- Pre-construction meetings.
 Pile driving/drilling of caissons or drilled shafts.
 Reinforcement and concrete placement for railroad bridge
- substructure and/or superstructure.
- Erection of precast concrete or steel bridge superstructure. 4.
- Placement of waterproofing (prior to placing ballast on bridge deck). 6. Completion of the bridge structure.
- B. Site inspection is not limited to the milestone events listed above. Site visits to check progress of the work may be performed at any time throughout the construction as deemed necessary by the Railroad.
- C. Provide a detailed construction schedule, including the proposed temporary horizontal and vertical clearances and construction sequence for all work to TxDOT for submittal to the Railroad Designated Representative for review prior to commencement of work. Include the anticipated dates when the above listed events will occur. Update this schedule for the above listed events as necessary and each month at a minimum to allow the Railroad to schedule site inspections.

3.11 RAILROAD REPRESENTATIVES

Railroad representatives, conductors, flag person or watch person will be provided by the Railroad at expense of TxDOT to protect Railroad facilities, property and movements of its trains or engines. In general, the Railroad will furnish such personnel or other protective services as follows:

- A. When any part of any equipment is standing or being operated within 25 feet, measured horizontally, from nearest rail of any track on which trains may operate, or when any object is off the ground and any dimension thereof could extend inside the 25 foot limit, or when any erection or construction activities are in progress within such limits, regardless of elevation above or below track.
- B. For any excavation below elevation of track subgrade if, in the opinion the Railroad Designated Representative, track or other railroad facilities may be subject to settlement or movement.
- C. During any clearing, grubbing, excavation or grading in proximity to railroad facilities, which, in the opinion of the Railroad Designated Representative, may endanger railroad facilities or operations.
- D. During any Contractor's operations when, in the opinion of the Railroad Designated Representative, railroad facilities, including, but not limited to, tracks, buildings, signals, wire lines, or pipe lines, may be endangered.
- E. Arrange with the Railroad Designated Representative to provide the adequate number of flag persons to accomplish the work.

3.12 COMMUNICATIONS AND SIGNAL LINES

If required, the Railroad will rearrange its communications and signal lines, its grade crossing warning devices, train signals and tracks, and facilities that are in use and maintained by the Railroad's forces in connection with its operation at expense of TxDOT. This work by the Railroad will be done by its own forces and it is not a part of the Work words the contract Work under this Contract.

3,13 TRAFFIC CONTROL

Coordinate any operations that control traffic across or around railroad facilities with the Railroad Designated Representative.

3.14 CONSTRUCTION EXCAVATIONS AND BORING ACTIVITIES UNDER TRACK

- A. Take special precaution and care in connection with excavating and shoring. Excavations for construction of footings, piers, columns, walls or other facilities that require shoring shall comply with requirements of TxDOT, OSHA, AREMA and Railroad "Guidelines for Temporary Shoring".
- B. The project plans indicate whether there are fiber optic lines or other such telecommunications systems that require consideration. Regardless, contact the necessary call center to determine if such cable systems are present:

UPRR 1-800-336-9193 7:00 AM to 9:00 PM CST Monday-Friday except holidays, staffed 24 hrs/day for emergencies 48 hrs notice required

BNSF 1-800-533-2891 24 hour number 5 working days notice required

KCS 1-800-344-8377 Texas One Call, a 24 hour number 48 hrs notice required, excluding weekends and holidays

If a telecommunications system is buried anywhere on or near railroad property, coordinate with TxDOT, the Railroad and the Telecommunication Company(ies) to arrange for relocation or protective measures prior to beginning work on or near railroad property. Refer to the project General Notes for additional information.

C. Projects involving a boring or jack and bore operation under track such as drainage pipes or culverts and utilities require an installation plan reviewed and approved by the Railroad and TxDOT prior to proceeding with such construction. A railroad inspector and contractor assisted monitoring of ground and track movement is required to maintain sofe passage of rail traffic. Stop installation and do not allow passage of trains if movements in excess of 1/4 inch vertical or horizontal is detected in the tracks. Immediately repair the damage to the satisfaction of TxDOT and the Railroad before proceeding.

3.15 RAILROAD FLAGGING

Per the Right of Entry Agreement for flagging, notify the Railroad Representative at least 10 working days in advance of Contractor's work and at least 30 working days in advance of any Contractor's work in which any person or equipment will be within 25 feet of nearest rail or as specified in the Contractor Right of Entry (CROE).

3.16 CLEANING OF RIGHT-OF-WAY

When work is complete, remove all tools, implements, and other materials brought into Railroad Right of Way and leave the right of Way in a clean and presentable condition to the satisfaction of TxDOT and the Railroad.

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RAILROAD REQUIREMENTS FOR NON-BRIDGE CONSTRUCTION PROJECTS						
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