FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6	F 2022(080), ETC.	SH 14, ETC.
STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.
CONTROL	SECTION	JOB / SHEET NO.
0049	15	014, ETC. / 1

STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION

SEE SHEET 2
FOR INDEX OF SHEETS
AND SHEETS 3-5 FOR
PROJECT LOCATION MAP

PLANS OF PROPOSED
STATE HIGHWAY IMPROVEMENT

FINAL PLANS

PROJECT NUMBER: F 2022(080), ETC.

SH 14, ETC.
ROBERTSON COUNTY, ETC.

TOTAL LENGTH OF PROJECT = 21,928.00 FT= 4.153 MILES, ETC.

FOR THE CONSTRUCTION OF SEALCOAT CONSISTING
OF A ONE COARSE SURFACE TREATMENT AND PAVEMENT MARKINGS AND MARKERS.

CONTRACTOR:

LETTING DATE:

DATE CONTRACTOR BEGAN WORK:

DATE WORK WAS COMPLETED:

DATE WORK WAS ACCEPTED:

FINAL CONTRACT COST: $

NO EXCEPTIONS
NO EQUATIONS
16 RAILROAD CROSSINGS

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

REQUIRED CONTRACT PROVISIONS FOR ALL FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, MAY, 2012)

TEXAS DEPARTMENT OF TRANSPORTATION®

SUBMITTED FOR LETTING: 8/4/2021
DocuSigned by: Dan A. Dauila, P.E.
59B67CE6AA5C433...
DESIGN MANAGER

RECOMMENDED FOR LETTING: 8/4/2021
DocuSigned by: Doug J. Maxwell, P.E.
DAA3B06...
DIRECTOR OF TRANSPORTATION PLANNING AND DEVELOPMENT

APPROVED FOR LETTING: 8/4/2021
DocuSigned by: Lance M. Simmons
7A1E426988DE4A8...
DISTRICT ENGINEER

REV DATE: 2-12-2015
CSJ: 0049-15-014
FILENAME: G:\00491501\4\AC-Asphalt Design\03 General\TITLE SHEET.dgn

INDEX OF SHEETS

STATE OF TEXAS
JAMES W. ROBBINS
106267
LICENSED PROFESSIONAL ENGINEER

James W Robbins

8/05/21

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

PRINT DATE	REVISION DATE
8/5/2021	

Texas Department of Transportation
Bryan District

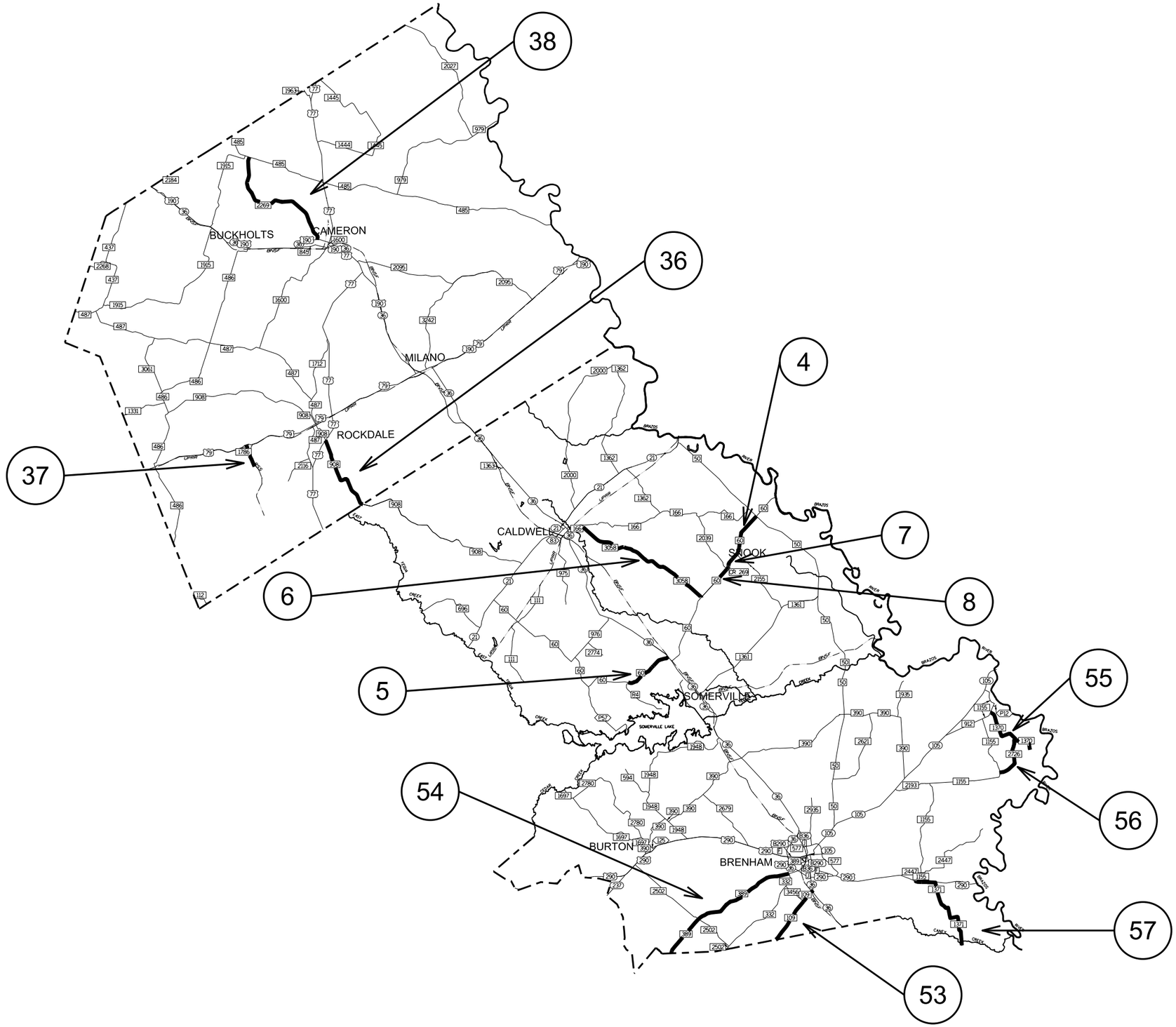
INDEX OF SHEETS

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY	
TEXAS	BRY	ROBERTSON, ETC.	
CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	2

REV DATE: 2-12-2015
CSJs: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\08 General\INDEX OF SHEETS.dgn



REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\01 DISTRICT MAP\PROJECT LOCATION MAP BRENHAM AREA OFFICE.dgn

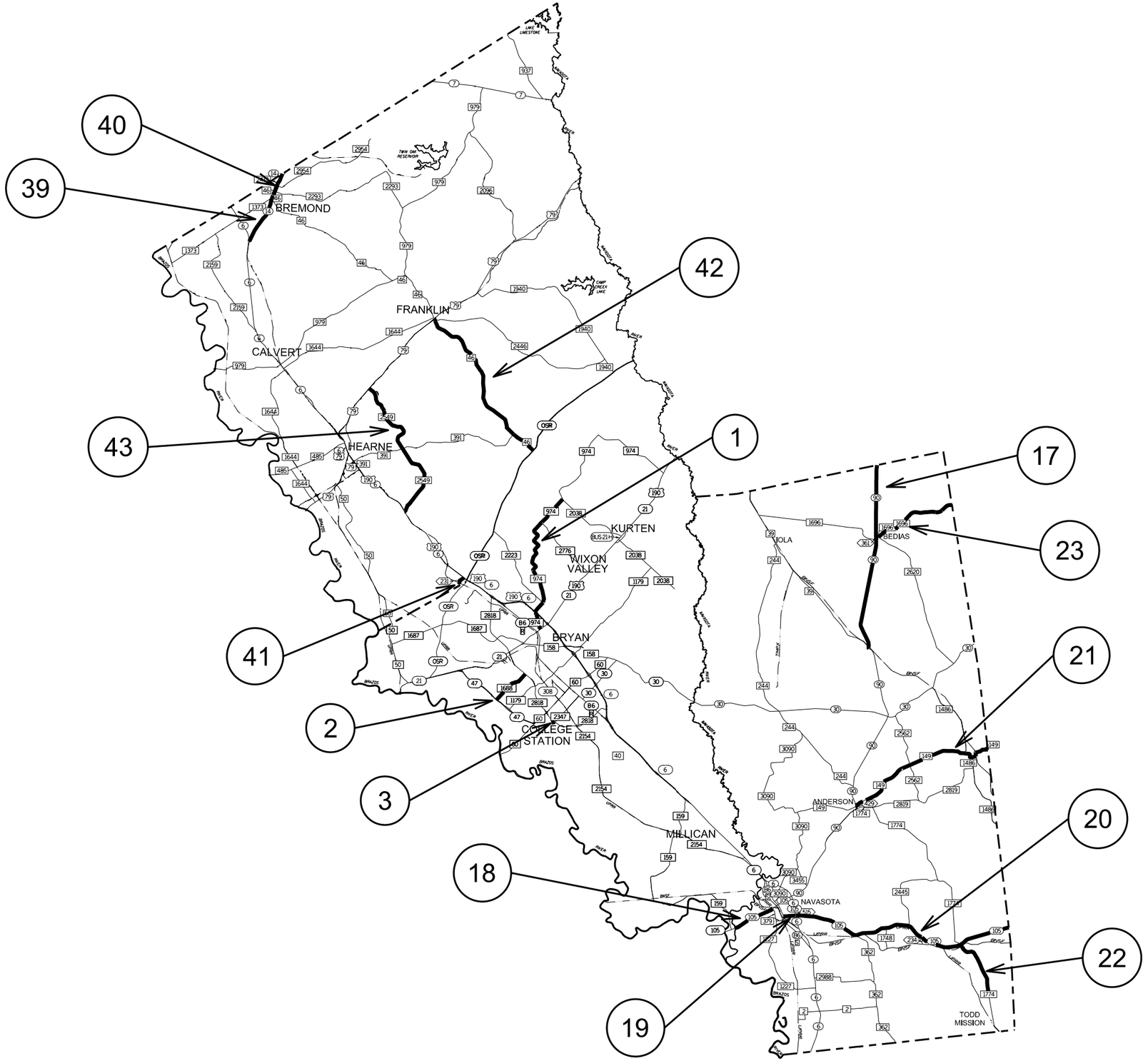
PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District
© 2021

PROJECT LOCATION MAP
BRENHAM AREA OFFICE

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY	
TEXAS	BRY	ROBERTSON, ETC.	
CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	3



PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District
© 2021

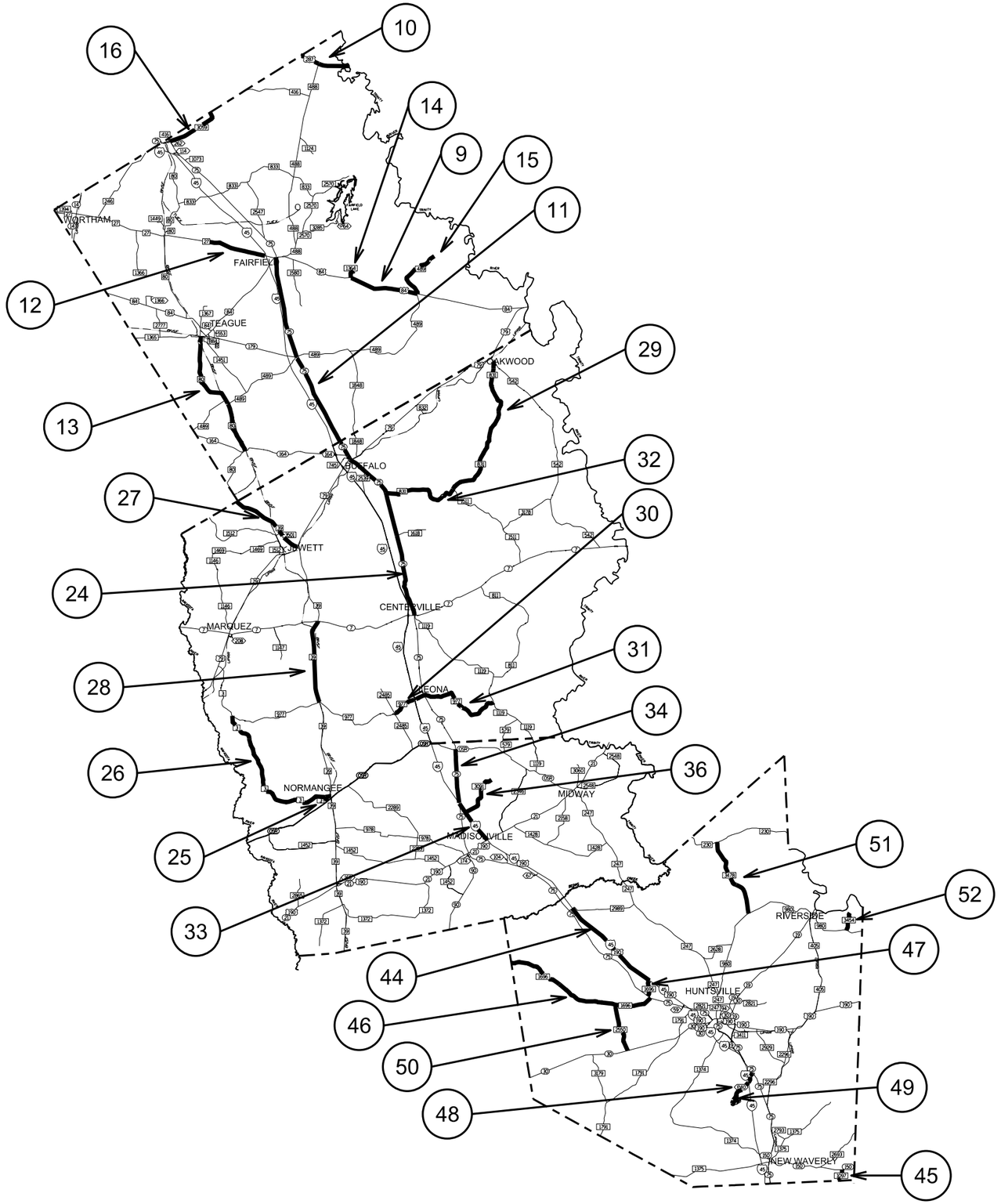
PROJECT LOCATION MAP
BRYAN AREA OFFICE

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY	
TEXAS	BRY	ROBERTSON, ETC.	
CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	4

REV DATE: 2-12-2015
CSJs: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\01 DISTRICT MAP\PROJECT LOCATION MAP BRYAN AREA OFFICE.dgn



REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\01 DISTRICT MAP\PROJECT LOCATION MAP HUNTSVILLE AREA OFFICE.dgn

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT LOCATION MAP
HUNSTVILLE AREA OFFICE

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	5

GENERAL:

Contractor questions on this project are to be addressed to the following individuals:
Eric Bennett, P.E., A.E., Eric.Bennett@txdot.gov
James Kreamer, P.E., A.A.E., James.Kreamer@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.

ITEM 7 "LEGAL RELATIONS AND RESPONSIBILITIES"

State contract mowers will mow the right of way during the growing season. The Contractor will be notified by the Engineer one week in advance of the anticipated time when mowers will be in the limits of the project. Clean the right of way to such a condition that allows the mowing contractors to safely mow.

This project is on a hurricane evacuation route. Furnish at the pre-construction meeting a written plan outlining procedures to suspend work, secure the job site and safely handle traffic through and across the project in the event of a hurricane evacuation.

During the hurricane season (June 1 through November 30), do not close any travel lanes except when the Contractor can demonstrate that he can provide labor, equipment, material, work plan, and quality of work to satisfactorily return all lanes to an open, all-weather travel surface within three days of receiving written or verbal notice but no later than 3 days prior to hurricane landfall. Construction of temporary lanes to an all-weather surface will be paid in accordance with Article 9.7, "Payment for Extra Work and Force Account Method".

In addition to lane closures, cease work 3 days prior to hurricane landfall on or near the roadway that adversely impacts the flow of traffic and reduces the capacity of the highway during an evacuation. Prohibit the Contractor's, sub-contractors' or material suppliers' vehicles from entering or exiting the stream of traffic including material hauling and delivery, and mobilization or demobilization of equipment. When directed, this prohibition will include a reasonable time period for the evacuees to return to their point of origin.

Sheet: 6
Highway: SH 14, Etc. Control: 0049-15-014, Etc.
County: Robertson, Etc.

In the event of the declaration of a hurricane watch, warning, other severe weather warning or national or state emergency that requires the roadways in the vicinity be used as evacuation routes, cease all work that requires the Contractor's, sub-contractors' or material suppliers' vehicles to enter the stream of traffic on these primary or secondary evacuation routes. This work includes material hauling and delivery, and mobilization or demobilization of equipment.

The following roadways are recognized evacuation routes in the Bryan District:
Primary Evacuation Routes: IH 45, US 290, SH 6, SH 36.
Secondary Evacuation Routes: US 79, US 84, SH 7, SH 30, SH 21, SH 105.
Other routes may be designated.

No significant traffic generator events identified.

ITEM 8 "PROSECUTION AND PROGRESS"

The latest roadway start work date shall be May 16, 2022.

Before starting work, provide a sequence of work and estimated progress schedule meeting requirements of Section 8.2.B, "Construction Contracts." Provide a separate copy for the District Public Information Officer. The Engineer shall have the authority to direct where the Contractor's operations begin within the Bryan District's ten county area and the order in which subsequent counties will be worked.

Failure to complete work within the seal coat season established by the plans will result in liquidated damages as described in Section 8.5, "Failure to complete Work on Time." This includes any surface treatment work carried over to the next year.

By noon of each Wednesday, provide the Engineer a written outline of the daily work schedule for the following week. Include in the outline the times and places for proposed traffic control changes, lane and shoulder closures, and moving operations or other operations that affect traffic on the roadway. Unless otherwise authorized by the Engineer, prosecute the work on this project in accordance with the following sequence of work:

1) Set advance signing and barricades.
2) Remove existing raised movement markers and profile markers. Place temporary work zone markers.
3) Place surface treatment on driveway and intersections.
4) Place surface treatment on roadway.
5) Place pavement markings and markers.
6) Final cleanup.

Some of these operations may be performed simultaneously.

Prepare Progress Schedule Chart.

Equipment and material may be pre-staged at approved locations.

ITEM 316 "SEAL COAT"

The open season for application of asphalt is from May 1, 2022 to September 15, 2022. unless otherwise authorized in writing by the Engineer.

Collect and dispose of asphalt shot papers at the conclusion of each day's work.

For each roadway, all aggregate of the same grade and type, shall be from the same source.

Vehicles used to haul aggregate from the stockpile to the chip spreader will not be overloaded. Any damage to the roadway caused by the vehicles will be repaired by the Contractor at his expense and subsequent loads will be reduced so as not to cause further damage.

Transverse variance rates shall be used as directed. The nozzles outside the wheel paths will output up to 20% more asphalt by volume than the nozzles over the wheel paths.

The Contractor may be required to furnish and set string line to insure straight and uniform alignment as directed by the Engineer. The Contractor may use other methods subject to approval of the Engineer.

Surface treat driveways before the roadway is surface treated.

Air and surface temperature for asphalt material application will be in accordance with the specification and the manufacturer's recommendation. However, the engineer may limit the use of an asphalt material due to the time of year.

Sheet: 6A
Highway: SH 14, Etc. Control: 0049-15-014, Etc.
County: Robertson, Etc.

ITEM 502 "BARRICADES, SIGNS AND TRAFFIC HANDLING"

One way traffic control operations are required when placing centerline profile markings on all two-lane roadways, unless otherwise approved by the Engineer. Work area is limited to a maximum of 2 miles for this work.

During one-way operations, station flaggers at all county roads and any other locations, such as private businesses, that may have traffic entering the work area.

Removal of ground mounted temporary signs and supports as specified on standard sheet BC(5), shall include the immediate backfilling of support holes with Type B embankment material and the compaction of the backfill material.

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.

In lieu of placing channelizing devices on centerline for one-lane, two-way traffic control, the Contractor may provide the Pilot Car Method. Operate the pilot vehicle in coordination with the flagging operations and other controls at the end of the one-lane sections in accordance with appropriate TCP. Mount a G20-4 sign at a conspicuous location on the rear of the vehicle. Traffic delays caused by one-lane, two-way traffic control, will not be allowed to exceed 5 minutes unless approved by the Engineer. Centerline channelizing devices will not be required.

Place channelizers along resurfaced ramps and one lane roadways (i.e. one lane roadways without centerline striping) until striping can be placed.

ITEM 506 "TEMPORARY EROSION, SEDIMENTATION AND ENVIRONMENTAL CONTROLS"

It is not anticipated that any erosion control devices will be needed on this project. However, in the event that any devices are needed, payment for the work will be determined in accordance with Article 9.7, "Payment for Extra Work and Force Account Method".

ITEM 666 "REFLECTORIZED PAVEMENT MARKINGS"

Unless authorized by the Engineer, the Contractor will not place the pavement markings on the resurfaced roadway until it has cured for 3 days.

All striping limits must be approved by the Engineer before striping operations may begin.

For bidding purposes, the RR Xing symbol will be measured and paid for as for each lane in place. The transverse markings and lane lines will be measured and paid for by the linear foot.

For those public driveways that have an existing traffic control device that requires vehicles to stop and do not have stop bar in place, install a 24" W SLD stop bar.

ITEM 672 "RAISED PAVEMENT MARKERS"

Use flexible bituminous adhesive for applications on all pavement types.

Unless authorized by the Engineer, the Contractor will not place the raised pavement markers on the resurfaced roadway until it has cured for 3 days.

ITEM 677 "ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS"

Use the Following method: **Mechanical.**

For work on profile markings, only the elimination of the profile bars (raised portion of the profile markings) is required.

Sheet: 6B

Highway: SH 14, Etc. Control: 0049-15-014, Etc.

County: Robertson, Etc.

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

Table 1: Basis of Estimate for Mobile TMAs				
		TMA(Mobile)		
Phase	Standard	Required	Additional	Total
Striping	TCP (3-1)-13	2	0	2
Striping	TCP (3-2)-13	3	0	3
RPM	TCP (3-3)-14a	2	0	2
RPM	TCP (3-3)-14b	2	0	2
RPM	TCP (3-3)-14c	2	0	2
RPM	TCP (3-3)-14d	2	0	2

Therefore, three (3) total shadow vehicles with TMA will be required for this type of work. The contractor will be responsible for determining if one or more of these operations will be ongoing at the same time to determine the total number of TMAs needed for the project.

The TMA's will be measured and paid for by DAY for each TMA/TA set up and operational on the worksite.

Two hundred and seventy six (276) TMA days are provided in the project estimate for mobile operations.

Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0049-15-014

DISTRICT Bryan

COUNTY Brazos, Burleson, Freestone, Grimes, Leon, Madison, Milam, Robertson, Walker, Washington

HIGHWAY FM 109, FM 1097, FM 1364, FM 1370, FM 1371, FM 149, FM 1688, FM 1696, FM 1774, FM 1786, FM 2269, FM 2347, FM 2549, FM 2550, FM 27, FM 2726, FM 3, FM 3058, FM 3059, FM 3091, FM 3454, FM 3478, FM 389, FM 39, FM 46, FM 489, FM 60, FM 80, FM 831, FM 908, FM 974, FM 977, FS 3, IH 45, PR 40, PR 40A, SH 105, SH 14, SH 75, SH 90, SS 231, SS 515, US 287, US 84

ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL
	316-6017	ASPH (AC-20-5TR)	GAL	2,434,111.000	
	316-6222	AGGR(TY-PB GR-3 SAC-B)	CY	1,894.000	
	316-6404	AGGR (TY-PB GR-4 OR TY-PL GR-4 SAC-A)	CY	41,661.000	
	316-6434	AGGR (TY-PB GR-4 OR TY-PL GR-4 (SAC-B)	CY	7,491.000	
	500-6001	MOBILIZATION	LS	1.000	
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	6.000	
	530-6003	INTERSECTIONS (SURF TREAT)	SY	60,215.000	
	530-6006	DRIVEWAYS (SURF TREAT)	SY	66,008.000	
	530-6009	TURNOUTS (SURF TREAT)	SY	34,058.000	
	662-6109	WK ZN PAV MRK SHT TERM (TAB)TY W	EA	5,051.000	
	662-6111	WK ZN PAV MRK SHT TERM (TAB)TY Y-2	EA	196,721.000	
	666-6036	REFL PAV MRK TY I (W)8"(SLD)(100MIL)	LF	32,145.000	
	666-6048	REFL PAV MRK TY I (W)24"(SLD)(100MIL)	LF	6,445.000	
	666-6102	REF PAV MRK TY I(W)36"(YLD TRI)(100MIL)	EA	253.000	
	666-6167	REFL PAV MRK TY II (W) 4" (BRK)	LF	26,827.000	
	666-6170	REFL PAV MRK TY II (W) 4" (SLD)	LF	3,398,239.000	
	666-6205	REFL PAV MRK TY II (Y) 4" (BRK)	LF	265,883.000	
	666-6207	REFL PAV MRK TY II (Y) 4" (SLD)	LF	2,315,595.000	
	668-6077	PREFAB PAV MRK TY C (W) (ARROW)	EA	113.000	
	668-6078	PREFAB PAV MRK TY C (W) (DBL ARROW)	EA	13.000	
	668-6085	PREFAB PAV MRK TY C (W) (WORD)	EA	96.000	
	668-6089	PREFAB PAV MRK TY C (W) (RR XING)	EA	24.000	
	672-6007	REFL PAV MRKR TY I-C	EA	1,368.000	
	672-6009	REFL PAV MRKR TY II-A-A	EA	41,408.000	
	672-6010	REFL PAV MRKR TY II-C-R	EA	2,751.000	
	677-6001	ELIM EXT PAV MRK & MRKS (4")	LF	1,952,216.000	
	6056-6001	PREFORMED IN-LANE(TRANS) RUMBLE STRIP	LF	201.000	
	6185-6005	TMA (MOBILE OPERATION)	DAY	276.000	
	12	RAILROAD FLAGGING: RAILROAD FORCE ACCOUNT WORK (PARTICIPATING)	LS	1.000	
	18	EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS	1.000	
		SAFETY CONTINGENCY: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS	1.000	

SEAL COAT MATERIAL SELECTION TABLE

LOCATION ID	COUNTY	HIGHWAY	CSJ	STATION		ROADWAY	AGGR GRADE	SAC	ASPH	AGGR	AGGR	AGGR
									AC-20-5TR	TY-PB GR-3	TY-PB GR-4 OR TY-PL GR-4	TY-PB GR-4 OR TY-PL GR-4
				FROM	TO	SY	3 OR 4	A OR B	GAL	CY	CY	CY
1	Brazos	FM 974	0540-03-034	0+00	613+75	220,266	4	A	83,701		1,762	
2	Brazos	FM 1688	1560-02-021	0+00	147+00	40,132	4	A	15,250		321	
3	Brazos	FM 2347	3138-01-036	0+00	12+01	5,623	4	A	2,137		45	
4	Burleson	FM 60	0648-03-074	0+00	147+16	150,359	4	A	57,136		1,203	
5	Burleson	FM 60	0713-01-049	0+00	198+29	61,273	4	A	23,284		490	
6	Burleson	FM 3058	3119-01-015	0+00	580+27	193,759	4	A	73,628		1,550	
7	Burleson	FM 60	0648-03-076	0+00	67+58	65,758	4	A	24,988		526	
8	Burleson	FM 60	0648-04-002	0+00	66+21	64,632	4	A	24,560		517	
9	Freestone	US 84	0057-05-030	0+00	335+19	171,641	4	A	65,224		1,373	
10	Freestone	US 287	0122-03-032	0+00	222+86	105,473	4	A	40,080		844	
11	Freestone	SH 75	0166-03-035	0+00	922+46	292,473	4	A	111,140		2,340	
12	Freestone	FM 27	0456-02-032	0+00	146+41	68,898	4	A	26,181		551	
13	Freestone	FM 80	0612-01-052	0+00	632+07	200,695	4	A	76,264		1,606	
14	Freestone	FM1364	1329-01-006	0+00	59+87	16,659	4	B	6,330			133
15	Freestone	FM 489	2672-01-007	0+00	258+80	57,798	4	B	21,963			462
16	Freestone	FM 3059	3130-01-008	0+00	256+35	68,567	4	B	26,055			549
17	Grimes	SH 90	0315-02-057	0+00	704+77	344,055	4	A	130,741		2,752	
18	Grimes	SH 105	0315-04-081	0+00	107+50	53,242	4	A	20,232		426	
19	Grimes	SS 515	0338-01-061	0+00	36+96	17,430	4	A	6,623		139	
20	Grimes	SH 105	0338-01-062	0+00	886+78	425,523	4	A	161,699		3,404	
21	Grimes	FM 149	0720-01-043	0+00	621+91	181,254	4	A	68,877		1,450	
22	Grimes	FM 1774	1400-02-028	0+00	182+64	57,232	4	A	21,748		458	
23	Grimes	FM 1696	1809-01-019	0+00	336+91	91,701	4	A	34,846		734	
24	Leon	SH 75	0166-04-050	0+00	921+10	266,283	4	A	101,188		2,130	
25	Leon	FS 3	3281-01-008	0+00	17+86	4,804	4	B	1,826			38
26	Leon	FM 3	0552-01-032	0+00	742+10	210,772	4	A	80,093		1,686	
27	Leon	FM 39	0643-01-065	0+00	381+33	163,906	4	A	62,284		1,311	
28	Leon	FM 39	0643-01-066	0+00	389+56	112,456	4	A	42,733		900	
29	Leon	FM 831	1145-01-051	0+00	717+08	206,027	4	B	78,290			1,648
30	Leon	FM 977	1147-02-025	0+00	167+01	47,743	4	B	18,142			382
31	Leon	FM 977	1147-03-015	0+00	401+86	230,696	4	B	87,664			1,846
32	Leon	FM 831	1457-01-022	0+00	372+90	107,590	4	A	40,884		861	
33	Madison	SH 75	0166-07-066	0+00	271+76	89,131	4	A	33,870		713	
34	Madison	IH 45 EFR	0675-05-098	0+00	234+01	61,610	3	B	25,876	493		
35	Madison	FM 3091	3178-03-009	0+00	220+39	53,993	4	B	20,517			432
36	Milam	FM 908	0858-02-023	0+00	311+14	83,069	4	A	31,566		665	
37	Milam	FM 1786	1834-01-012	0+00	88+74	24,251	3	B	10,185	194		
38	Milam	FM 2269	2133-03-020	0+00	527+05	150,837	3	B	63,352	1,207		
39	Robertson	SH 14	0049-15-014	0+00	219+28	87,849	4	A	33,383		703	
40	Robertson	SH 14	0093-08-019	0+00	74+18	33,867	4	A	12,869		271	
41	Robertson	SS 231	0475-05-007	0+00	34+32	7,635	4	B	2,901			61
42	Robertson	FM 46	0540-02-028	0+00	684+87	235,259	4	A	89,398		1,882	
43	Robertson	FM 2549	2479-01-022	0+00	617+19	176,454	4	A	67,053		1,412	
44	Walker	IH45 EFR	0675-06-114	0+00	502+76	113,372	4	B	43,081			907
45	Walker	FM 1097	1259-03-008	0+00	52+64	22,238	4	A	8,450		178	
46	Walker	FM 1696	1809-02-028	0+00	727+16	196,126	4	A	74,528		1,569	
47	Walker	FM 1696	1809-03-011	0+00	81+52	21,739	4	A	8,261		174	
48	Walker	PR 40	2267-01-011	0+00	185+33	51,086	4	A	19,413		409	
49	Walker	PR 40A	2267-01-012	0+00	61+93	16,515	4	B	6,276			132
50	Walker	FM 2550	2480-01-011	0+00	225+83	60,448	4	A	22,970		484	
51	Walker	FM 3454	3443-01-006	0+00	86+38	25,124	4	A	9,547		201	
52	Walker	FM 3478	3550-01-015	0+00	378+63	115,802	4	A	44,005		926	
53	Washington	FM 109	0187-06-028	0+00	244+23	75,801	4	A	28,804		606	
54	Washington	FM 389	0315-08-044	0+00	592+83	156,602	4	A	59,509		1,253	
55	Washington	FM 1370	1404-01-013	0+00	258+54	68,705	4	B	26,108			550
56	Washington	FM 2726	1404-02-030	0+00	172+17	43,854	4	B	16,665			351
57	Washington	FM 1371	1405-01-021	0+00	390+98	104,560	4	A	39,733		836	
TOTALS						6,380,647	-	-	2,434,111	1,894	41,661	7,491

FOR CONTRACTORS INFORMATION ONLY

INTERSECTIONS DRIVEWAYS & TURNOUTS	ASPH	AGGR	AGGR	AGGR
	AC-20-5TR	TY-PB GR-3	TY-PB GR-4 OR TY-PL GR-4	TY-PB GR-4 OR TY-PL GR-4
SY	GAL	CY	CY	CY
13,904	5,284		111	
1,726	656		14	
420	160		3	
3,249	1,235		26	
2,787	1,059		22	
2,573	978		21	
1,320	502		11	
190	72		2	
2,852	1,084		23	
1,077	409		9	
4,578	1,740		37	
1,054	401		8	
7,138	2,712		57	
619	235			5
2,310	878			18
935	355			7
3,812	1,449		30	
963	366		8	
1,160	441		9	
5,757	2,188		46	
7,852	2,984		63	
2,904	1,104		23	
4,104	1,560		33	
5,997	2,279		48	
181	69			1
4,140	1,573		33	
4,705	1,788		38	
2,612	993		21	
915	348			7
3,249	1,235			26
332	126			3
1,439	547		12	
2,613	993		21	
4,515	1,896	36		
1,378	524			11
1,218	463		10	
480	202	4		
2,601	1,092	21		
2,400	912		19	
1,387	527		11	
567	215			5
5,269	2,002		42	
4,101	1,558		33	
2,241	852			18
	0			
4,106	1,560		33	
11,051	4,199		88	
	0			
	0			
2,206	838		18	
748	284		6	
112	43		1	
2,835	1,077		23	
6,504	2,472		52	
3,101	1,178			25
606	230			5
3,388	1,287		27	
160,281	61,211	61	1,090	131

ASPHALT ESTIMATED AT THE FOLLOWING RATES:

AC-20-5TR AT 0.38 GAL/SY FOR GR 3 AGGREGATE
AC-20-5TR AT 0.42 GAL/SY FOR GR 4 AGGREGATE

AGGREGATE ESTIMATED AT 1 CY / 125 SY

STATE OF TEXAS
JAMES W. ROBBINS
106267
LICENSED
PROFESSIONAL ENGINEER

James W Robbins
8/23/21

PRINT DATE	REVISION DATE
8/19/2021	

Texas Department of Transportation
Bryan District

SEAL COAT MATERIAL SELECTION TABLE

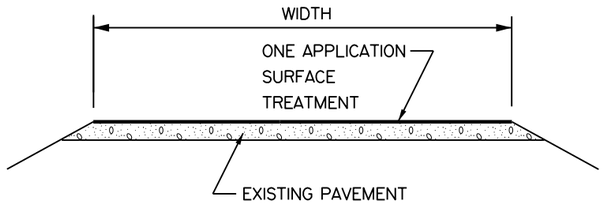
FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

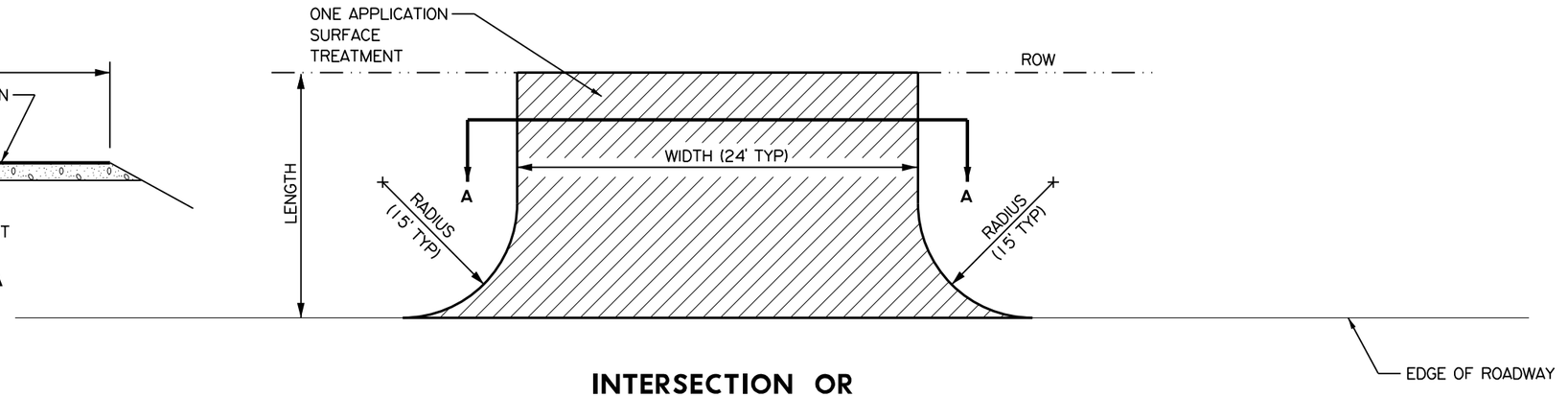
CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	8

REV DATE: 2-12-2015
CSJ: 0049-15-014

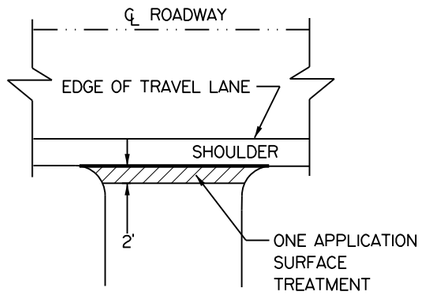
FILENAME: G:\0049\15\014\AC-Asphalt Design\05 MATERIAL SELECTION\MATERIAL SELECTION SHEET.dgn



SECTION A-A



INTERSECTION OR PUBLIC DRIVEWAY DETAIL



PRIVATE DRIVEWAY (COMMERCIAL (1) OR RESIDENTIAL (2)) DETAIL

NOTES:

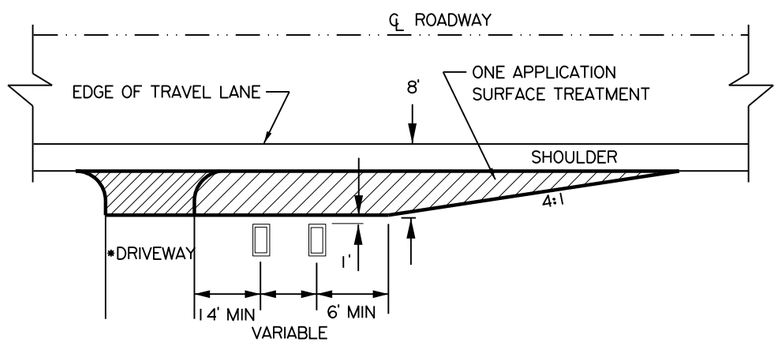
DIMENSIONS ARE FOR ESTIMATING PURPOSES ONLY. ACTUAL DIMENSIONS WILL VARY.

(1) COMMERCIAL DRIVEWAY SURFACE AREA ESTIMATED AT 9 SY/EA.

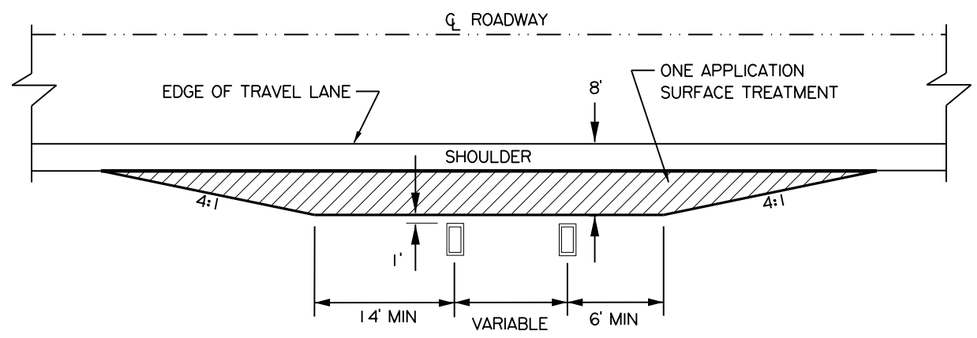
(2) RESIDENTIAL DRIVEWAY SURFACE AREA ESTIMATED AT 4 SY/EA.

(3) TY I MAILBOX TURNOUT SURFACE AREA ESTIMATED AT 28 SY/EA.

(4) TY II MAILBOX TURNOUT SURFACE AREA ESTIMATED AT 31 SY/EA.



MAILBOX TURNOUT TYPE I DETAIL (3)



MAILBOX TURNOUT TYPE II DETAIL (4)

STATE OF TEXAS
JAMES W. ROBBINS
106267
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PROFESSIONAL ENGINEER

James W. Robbins
6/28/21

Drawings Not To Scale

PRINT DATE	REVISION DATE
6/22/2021	

Texas Department of Transportation
Bryan District

MISCELLANEOUS AREA DETAILS

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.
STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.
CONTROL	SECTION	JOB / SHEET NO.
0049	15	014, ETC. / 9

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\00491501\014\AC-Asphalt Design\10 STANDARDS\MISCELLANEOUS AREA DETAILS.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS		ADT		REFERENCE MARKERS **		STATION		SKIPPED LOCATIONS	NET LENGTH (FT)
			FROM	TO	2018	2038	BEGIN	END	FROM	TO		
1	FM 974	0540-03-034	SH 21	FM 2038	7,038	9,853	616 -0.036	626 +1.641	0+00	613+75	0	61,375

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
		FM 974 SINGLE RDBD						
		BEG. AT SH 21 EDGELINE	TRANSITION	0+00	5+30	530	31	1,826
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-1.5' SHLDR	5+30	37+26	3,196	25	8,878
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-3' SHLDR	37+26	53+27	1,601	28	4,981
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-1.5' SHLDR	53+27	61+05	778	25	2,161
		SEAL FULL WIDTH	TRANSITION	61+05	62+87	182	37	748
		END AT BEG. OF DIVIDED RDBD						
		FM 974 EASTBOUND RDBD						
		BEG. AT END OF FM 974 SINGLE RDBD	1-20' TRVL LN WITH 2-1' SHLDR	62+87	64+00	113	22	276
		SEAL FULL WIDTH	1-20' TRVL LN WITH 2-3' SHLDR	64+00	68+80	480	26	1,387
		END AT BEG. OF SINGLE RDBD						
		FM 974 WESTBOUND RDBD						
		BEG. AT END OF FM 974 SINGLE RDBD	1-18' TRVL LN	62+87	64+31	144	18	288
		SEAL FULL WIDTH	TRANSITION	64+31	66+39	208	42	971
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-4' SHLDR	66+39	68+11	172	30	573
		FM 974 SINGLE RDBD						
		BEG. AT END OF FM 974 DIVIDED RDBD	TRANSITION	68+80	70+00	120	54	720
1	FM 974	SEAL FULL WIDTH	3-12' TRVL LN WITH 2-7' SHLDR	7+00	72+35	6,535	50	36,306
		SEAL FULL WIDTH	3-12' TRVL LN WITH 2-4' SHLDR	72+35	73+27	92	44	450
		SEAL FULL WIDTH	TRANSITION	73+27	78+99	572	43.5	2,765
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-3' SHLDR	78+99	85+47	648	28	2,016
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-2' SHLDR	85+47	110+76	2,529	26	7,306
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-3' SHLDR	110+76	146+02	3,526	28	10,970
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-2' SHLDR	146+02	185+69	3,967	26	11,460
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-3' SHLDR	185+69	201+31	1,562	28	4,860
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-1' SHLDR	201+31	250+02	4,871	24	12,989
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-2' SHLDR	250+02	285+38	3,536	26	10,215
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-3' SHLDR	285+38	323+38	3,800	28	11,822
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-2' SHLDR	323+38	374+15	5,077	26	14,667
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-3' SHLDR	374+15	386+80	1,265	28	3,936
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-2' SHLDR	386+80	452+56	6,576	26	18,997
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-1' SHLDR	452+56	488+92	3,636	24	9,696
		SEAL FULL WIDTH	TRANSITION	488+92	491+09	217	30.5	735
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-3' SHLDR	491+09	505+61	1,452	28	4,517
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-2' SHLDR	505+61	560+58	5,497	26	15,880
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-3' SHLDR	560+58	610+29	4,971	28	15,465
		SEAL FULL WIDTH	TRANSITION	610+29	613+75	346	37	1,422
		END AT INT. OF FM 2038						
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY		N/A			983
CSJ 0540-03-034							PROJECT TOTAL	220,266

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	0	1	8	1	0	24	1,372	0	0
1	FM 974	0540-03-034	38	6,435	0	100	0	0	314	0	374	122,617	9,997	68,637	191,254									

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
BRAZOS COUNTY
LOCATION NO. 01
FM 974

SHEET 01 OF 02 SHEETS

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	10

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\00491501\4\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION BRAZOS COUNTY NO.01 FM 974.dgn

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS		ITEM 530 6003	ITEM 530 6006	ITEM 530 *INFO	ITEM 530 6009	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
							LT	RT	INTERSECTIONS (SURF TRT)	PUBLIC DRIVEWAYS (SURF TRT)	PRIVATE DRIVEWAYS (SURF TRT)	TURNOUTS (SURF TRT)				
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
1	FM 974			**FM 974 SINGLE RDBD**												
		8+70	RT	HARMAN ST	26	18	20	25		77				1		
		12+24	RT	STONE HAVEN DR	30	34	30	30		157				1		
		19+92	LT	MILLBERG ST	28	24	30	35		126				1		
		21+71	LT	KIWI DR	20	24	15	15		65				1		
		23+96	LT	KOALA DR	20	24	15	15		65				1		
		46+97	RT	NUCHES LN	28	32	20	50		165				1		
		55+24	LT	MCHARNEY DR	230	30	30	30		810				1		
				FM 974 EASTBOUND RDBD												
		63+08	RT	TABOR RD RAMP TO SH 6	50	28				156				1		
		63+80	LT	N SB SH 6 FRONTAGE RD	100	30			334				1			
		63+80	RT	S SB SH 6 FRONTAGE RD	125	28			389				1			
				FM 974 SINGLE RDBD												
		72+30	RT	FM 974 EB RAMP	120	22			294				1			
		73+27	LT	N SB SH 6 FRONTAGE RD	200	28	0	30	644				1			
		78+99	LT	N NB SH 6 FRONTAGE RD	200	27	20	25	625				1			
		78+99	RT	S NB SH 6 FRONTAGE RD	130	33	30	25	514				1			
		84+04	LT	ELAINE DR	32	24	30	35		136				1		
		91+76	LT	RABBIT LN	25	30	35	35		141				1		
		91+76	RT	CLARKS LN	26	28	45	35		156				1		
		109+86	RT	BOATCALLIE RD	30	27	30	30		133				1		
		122+93	LT	FM 2223	200	30	50	70	844				1			
		127+32	RT	DILLY SHAW TAP RD	125	26	90	15		560				1		
		198+98	RT	WILCOX LN	32	34	50	15		184				1		
		258+28	LT	MANCUSO RD	42	24	80	40		290				1		
		271+31	RT	N COUNTRY DR	32	30	30	25		144				1		
		329+10	LT	STREET NAME	26	26	25	25		105				1		
		351+84	LT	ALEXANDER RD	30	26	25	20		112				1		
		435+04	LT	STANDING ROCK RD	35	24	20	20		113				1		
		447+37	LT	ALEXANDER RD	32	26	30	25		129				1		
		490+18	RT	FM 2776	200	30	60	50		813				1		
		503+15	LT	DICK ELLIOT RD	45	30	45	45		247				1		
		572+37	LT	ZWEIFEL RD	45	25	30	25		162				1		
		611+28	LT	FM 974 RAMP	400	28			1245				1			
		613+75	LT	FM 974	300	26			867				1			
		613+75	RT	FM 2038	200	26			578				1			
		INTERSECTIONS (LISTED ABOVE)							6334				10			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								5,046				23		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									567				63	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									416				104	
		TURNOUTS (TY I @ 28 SY/EA)										1,904				68
		TURNOUTS (TY II @ 31 SY/EA)										620				20
CSJ 0540-03-034									6334	5,046	983	2,524	10	23	167	88

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION BRAZOS COUNTY NO. 01 FM 974.dgn

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
BRAZOS COUNTY
LOCATION NO. 01
FM 974

SHEET 02 OF 02 SHEETS

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	11

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS		ADT		REFERENCE MARKERS **		STATION		SKIPPED LOCATIONS	NET LENGTH (FT)
			FROM	TO	2018	2038	BEGIN	END	FROM	TO		
2	FM 1688	1560-02-021	SH 47	FM 2818	4,050	4,860	410 -0.023	412 +0.886	0+00	147+00	0	14,700

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
2	FM 1688	BEG SEAL 200' E OF SH47 EFR EDGELINE	2-11' TRVL LNS WITH 2-1' SHLDRS	0+00	143+51	14,351	24	38,269
		SEAL FULL WIDTH	TRANSITION	143+51	146+10	259	37	1,064
		END SEAL 200' W IF FM2818 EDGELEINE	2-11' TRVL LNS AND 1-12'TRN LN WITH 2-4' SHLDRS	146+10	147+00	90	42	419
								0
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				380
CSJ 1560-02-021							PROJECT TOTAL	40,132

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
2	FM 1688	1560-02-021	10	1,571	0	96	0	0	72	0	0	29,400	2,950	13,718	0	0	1	0	1	0	5	313	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS LT	RADIUS RT	ITEM 530 6003 INTERSECTIONS (SURF TRT)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT)	ITEM 530 6009 TURNOUTS (SURF TRT)	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
2	FM 1688	6+76	LT	MEG LN	32	30	20	20		126				1		
		8+92	LT	BETH LN	32	22	20	20		98				1		
		11+62	LT	MALLARD LN	22	20	20	20		68				1		
		16+21	LT	HIGGS DR	22	30	20	20		93				1		
		23+71	LT	JUSTIN LN	36	20	25	25		110				1		
		33+42	RT	JONES RD	24	30	25	25		110				1		
		44+88	LT	LINDA RD	24	32	25	25		116				1		
		81+89	LT	CHARLOTTE RD	20	28	25	35		105				1		
		98+37	RT	CHICK LN	30	24	30	30		123				1		
		INTERSECTIONS (LISTED ABOVE)							0				0			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								949				9		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									180				20	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									200				50	
		TURNOUTS (TY I @ 28 SY/EA)										560				20
		TURNOUTS (TY II @ 31 SY/EA)										217				7
CSJ 1560-02-021									0	949	380	777	0	9	70	27

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation ©2021

Bryan District

PROJECT SUMMARY
BRAZOS COUNTY
LOCATION NO. 02
FM 1688

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	12

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION BRAZOS COUNTY NO. 02 FM 1688.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
3	FM 2347	3138-01-036	Airport	FM 2818	2,151	3,011	424 -0.019	424 +0.252	0+00	12+01	0	1,201

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
3	FM 2347	BEG. AT AIRPORT/END OF STATE MAINT.	2-12' TRVL LN WITH 2-9' SHLDR	0+00	12+01	1,201	42	5,605
		SEAL FULL WIDTH/END 200' WEST OF EDGELINE OF FM 2818						
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				18
CSJ 3138-01-036							PROJECT TOTAL	5,623

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
3	FM 2347	3138-01-036	0	135	0	0	0	0	45	0	0	2,702	0	2,702	0	0	0	0	0	0	0	34	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS LT	RADIUS RT	ITEM 530 6003 INTERSECTIONS (SURF TRT)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT)	ITEM 530 6009 TURNOUTS (SURF TRT)	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
3	FM 2347	3+71	RT	NUCLEAR SCIENCE RD	30	42	50	45		244				1		
		13+20	LT	N FM 2818 RAMP	72	22			176				1			
				INTERSECTIONS (LISTED ABOVE)					176				1			
				PUBLIC DRIVEWAYS (LISTED ABOVE)						244				1		
				*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)							18				2	
				*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)							0				0	
				TURNOUTS (TY I @ 28 SY/EA)								0				0
				TURNOUTS (TY II @ 31 SY/EA)								0				0
CSJ 3138-01-036									176	244	18	0	1	1	2	0

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION BRAZOS COUNTY NO.03 FM 2347.dgn
REV DATE: 2-12-2015
CSJ: 0049-15-014

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
BRAZOS COUNTY
LOCATION NO. 03
FM 2347

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	13

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
4	FM 60	0648-03-074	FM 2155	FM 50	7,435	8,922	622 +0.341	624 +1.244	0+00	147+16	CONC. BRIDGE	14,716

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
		FM 60 EASTBOUND RDBD						
		BEG. 500' W OF FM 2155	TRANSITION	0+00	5+77	577	53	3,398
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' SHLDR AND 1-4' SHLDR	5+77	29+68	2,391	40	10,627
		CONC. BRIDGE	NO SEAL	29+68	34+10	442		0
		SEAL FULL WIDTH	TRANSITION	34+10	37+97	387	46	1,978
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' LT TRN LN, 1-6' SHLDR AND 1-14' SHLDR	37+97	46+01	804	56	5,003
		SEAL FULL WIDTH	TRANSITION	46+01	47+16	115	46	588
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' SHLDR AND 1-2' SHLDR	47+16	62+19	1,503	38	6,346
		SEAL FULL WIDTH	TRANSITION	62+19	65+02	283	46	1,446
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' LT TRN LN, 1-4' SHLDR AND 1-10' SHLDR	65+02	72+54	752	50	4,178
		SEAL FULL WIDTH	TRANSITION	72+54	73+75	121	44	592
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' SHLDR AND 1-4' SHLDR	73+75	77+36	361	40	1,604
		SEAL FULL WIDTH	TRANSITION	77+36	79+38	202	47	1,055
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' LT TRN LN, 1-4' SHLDR AND 1-10' SHLDR	79+38	87+51	813	50	4,517
		SEAL FULL WIDTH	TRANSITION	87+51	89+01	150	45	750
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' SHLDR AND 1-4' SHLDR	89+01	97+97	896	40	3,982
		SEAL FULL WIDTH	TRANSITION	97+97	100+37	240	47	1,253
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' LT TRN LN, 1-4' SHLDR AND 1-10' SHLDR	100+37	108+41	804	50	4,467
		SEAL FULL WIDTH	TRANSITION	108+41	109+62	121	46	618
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' SHLDR AND 1-2' SHLDR	109+62	120+09	1,047	38	4,421
		SEAL FULL WIDTH	TRANSITION	120+09	122+80	271	46	1,385
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' LT TRN LN, 1-4' SHLDR AND 1-12' SHLDR	122+80	129+74	694	52	4,010
		SEAL FULL WIDTH	TRANSITION	129+74	130+95	121	45	605
		END AT BEG. OF SINGLE RDBD	2-12' TRVL LN WITH 1-12' SHLDR AND 1-2' SHLDR	130+95	147+58	1,663	38	7,022
		FM 60 WESTBOUND RDBD						
		BEG. 500' W OF FM 2155	2-12' TRVL LN WITH 2-11' SHLDR	0+00	4+00	400	46	2,044
		SEAL FULL WIDTH	TRANSITION	4+00	5+12	112	49	610
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' LT TRN LN, 1-4' SHLDR AND 1-12' SHLDR	5+12	12+75	763	52	4,408
		SEAL FULL WIDTH	TRANSITION	12+75	15+55	280	45	1,400
4	FM 60	SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' SHLDR AND 1-4' SHLDR	15+55	28+07	1,252	40	5,564
		CONC. BRIDGE	NO SEAL	28+07	32+60	453		0
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' SHLDR AND 1-2' SHLDR	32+60	44+77	1,217	38	5,138
		SEAL FULL WIDTH	TRANSITION	44+77	46+26	149	48	795
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' LT TRN LN, 1-4' SHLDR AND 1-12' SHLDR	46+26	53+80	754	52	4,356
		SEAL FULL WIDTH	TRANSITION	53+80	55+81	201	45	1,005
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' SHLDR AND 1-2' SHLDR	55+81	71+48	1,567	38	6,616
		SEAL FULL WIDTH	TRANSITION	71+48	72+80	132	47	689
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' LT TRN LN, 1-4' SHLDR AND 1-10' SHLDR	72+80	81+55	875	50	4,861
		SEAL FULL WIDTH	TRANSITION	81+55	83+27	172	45	860
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' SHLDR AND 1-2' SHLDR	83+27	86+90	363	38	1,533
		SEAL FULL WIDTH	TRANSITION	86+90	88+10	120	48	640
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' LT TRN LN, 1-4' SHLDR AND 1-10' SHLDR	88+10	96+02	792	50	4,400
		SEAL FULL WIDTH	TRANSITION	96+02	97+88	186	45.5	940
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' SHLDR AND 1-2' SHLDR	97+88	107+79	991	38	4,184
		SEAL FULL WIDTH	TRANSITION	107+79	109+00	121	45	605
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' LT TRN LN, 1-4' SHLDR AND 1-10' SHLDR	109+00	117+05	805	50	4,472
		SEAL FULL WIDTH	TRANSITION	117+05	118+65	160	47	836
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' SHLDR AND 1-2' SHLDR	118+65	129+09	1,044	38	4,408
		SEAL FULL WIDTH	TRANSITION	129+09	130+57	148	46.5	765
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' LT TRN LN, 1-4' SHLDR AND 1-10' SHLDR	130+57	136+63	606	50	3,367
		SEAL FULL WIDTH	TRANSITION	136+63	139+54	291	44.5	1,439
		END AT BEG. OF SINGLE RDBD	2-12' TRVL LN WITH 1-12' SHLDR AND 1-2' SHLDR	139+54	147+16	762	38	3,217
		FM 60 SINGLE RDBD						
		BEG. AT BEG. OF SINGLE RDBD	4-12' TRVL LN WITH 1-16' CLTL, 2-12' SHLDRS	147+58	157+18	960	88	9,387
		END 580' W OF FM 50 EDGELINE						
		CROSSOVERS						1,975
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY		N/A			0
CSJ 0648-03-074							PROJECT TOTAL	150,359

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662 6109 WK ZN PAV MRK SHT TRM (TAB) TY W EA	ITEM 662 6111 WK ZN PAV MRK SHT TRM (TAB) TY Y-2 EA	ITEM 666 6030 REFL PAV MRK TY I (W) (8") (DOT) (100MIL) LF	6036 (8") (SLD) (100MIL) LF	6042 (12") (SLD) (100MIL) LF	6045 (18") (SLD) (100MIL) LF	6048 (24") (SLD) (100MIL) LF	6224 (36") (YLD TRI) (100MIL) EA	6167 REFL PAV MRK TY II (W) (4") (BRK) LF	6170 (4") (SLD) LF	6205 REFL PAV MRK TY II (Y) (4") (BRK) LF	6207 (4") (SLD) LF	ITEM 677 6001 ELIM EXT PAV MRK & MRKS (4") LF	ITEM 668 6056 PREFAB PAV MRK TY B (ACC PRK) (BL&WH) EA	6077 TY C (W) (ARROW) EA	6078 (W) (DBL ARROW) EA	6085 (W) (WORD) EA	6089 (W) (RRXING) EA	ITEM 672 6007 REFL PAV MRKR TY I-C EA	6009 TY II-A-A EA	6010 TY II-C-R EA	ITEM 6056 6001 PREFORMED IN-LANE (TRANS) RUMBLE STRIP LF
4	FM 60	0648-03-074	1,510	1,627	0	9,211	0	0	55	95	7,846	31,436	0	32,528	0	0	14	0	4	0	0	28	854	0

REV DATE: 2-12-2015
CSJ: 0049-15-014
FILENAME: G:\004915\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION BURLESON COUNTY NO. 04 FM 60.dgn

PRINT DATE	REVISION DATE
6/25/2021	

Texas Department of Transportation
Bryan District
©2021

PROJECT SUMMARY
BURLESON COUNTY
LOCATION NO. 04
FM 60
SHEET 01 OF 02 SHEETS

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	14

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS		ITEM 530				INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
									6003	6006	*INFO	6009				
							LT	RT	INTERSECTIONS (SURF TRT)	PUBLIC DRIVEWAYS (SURF TRT)	PRIVATE DRIVEWAYS (SURF TRT)	TURNOUTS (SURF TRT)				
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
4	FM 60			**FM 60 EASTBOUND RDBD**												
		5+00	RT	FM 2155	200	32	30	35	762				1			
		5+00	LT	FM 2155 TURN AROUND	18	68	20	15	151				1			
		46+48	LT	TURN AROUND	25	52	35	35	202				1			
		72+94	RT	CO RD 295	38	18	35	35		135				1		
		72+94	LT	CO RD 295 TURN AROUND	32	46	50	35		251				1		
		87+90	LT	CO RD 266 TURN AROUND	28	55	25	25		201				1		
		108+83	LT	TURN AROUND	32	55	25	25		226				1		
		130+15	RT	CO RD 265	28	22	20	25		93				1		
		130+15	LT	CO RD 265 TURN AROUND	20	62	20	20		157				1		
				FM 60 WESTBOUND RDBD												
		4+48	RT	FM 2155 TURN AROUND	12	68	15	20	106				1			
		45+45	RT	TURN AROUND	26	54	35	35	214				1			
		72+14	RT	CO RD 295 TURN AROUND	20	48	35	50		184				1		
		88+60	LT	CO RD 266	35	20	25	25		108				1		
		88+60	RT	CO RD 266 TURN AROUND	25	56	25	25		186				1		
		129+50	LT	CO RD 265	40	18	20	15		95				1		
		129+73	RT	CO RD 265 TURN AROUND	23	62	20	20		178				1		
		INTERSECTIONS (LISTED ABOVE)							1435				5			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								1,814				11		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									0				0	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									0				0	
		TURNOUTS (TY I @ 28 SY/EA)										0				0
		TURNOUTS (TY II @ 31 SY/EA)										0				0
CSJ 0648-03-074									1435	1,814	0	0	5	11	0	0

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\00491501\14\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION BURLESON COUNTY NO. 04 FM 60.dgn

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
BURLESON COUNTY
LOCATION NO. 04
FM 60

SHEET 02 OF 02 SHEETS

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	15

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS		ADT		REFERENCE MARKERS **		STATION		SKIPPED LOCATIONS	NET LENGTH (FT)
			FROM	TO	2018	2038	BEGIN	END	FROM	TO		
5	FM 60	0713-01-049	PR 4	SH 36	2,018	2,038	608 +0.035	612 +0.168	0+00	198+29	0	19,829

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
5	FM 60	BEG. 70' W OF PR 4 CENTERLINE	TRANSITION	0+00	2+80	280	29	902
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-3' SHLDR	2+80	61+05	5,825	28	18,122
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-2' SHLDR	61+05	68+74	769	26	2,222
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-3' SHLDR	68+74	73+66	492	28	1,531
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-2' SHLDR	73+66	83+83	1,017	26	2,938
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-3' SHLDR	83+83	123+61	3,978	28	12,376
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-2' SHLDR	123+61	138+00	1,439	26	4,157
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-3' SHLDR	138+00	195+00	5,700	28	17,733
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-4' SHLDR	195+00	197+74	274	30	913
		END AT EDGELINE OF SH 36	TRANSITION	197+74	198+29	55	42	257
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				122
CSJ 0713-01-049							PROJECT TOTAL	61,273

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) 6056	(24") (SLD) 666342	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
5	FM 60	0713-01-049	0	2,000	0	0	0	0	127	0	0	39,398	1,621	30,241	71,260	0	0	0	0	0	0	460	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS LT	RADIUS RT	ITEM 530 6003 INTERSECTIONS (SURF TRT)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT)	ITEM 530 6009 TURNOUTS (SURF TRT)	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
5	FM 60	0+68	RT	PR 4	200	28	60	40	747				1			
		65+58	RT	CO RD 414	40	24	25	30		144				1		
		157+50	LT	N CO RD 408	50	24	70	35		278				1		
		157+50	RT	S CO RD 408	28	20	30	20		94				1		
		173+06	LT	HICKORY RIDGE ST	35	24	30	25		130				1		
		177+51	RT	CO RD 401	28	22	20	25		93				1		
		179+11	LT	SILVER MAPLE DR	45	18	30	30		133				1		
		188+91	RT	REDBUD RD	30	24	15	15		91				1		
		193+34	RT	CHURCH LN	30	18	25	25		90				1		
		196+54	LT	N PECAN LN	35	14	15	20		70				1		
		196+54	RT	S PECAN DR	35	24	30	30		137				1		
		INTERSECTIONS (LISTED ABOVE)							747				1			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								1,260				10		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									18				2	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									104				26	
		TURNOUTS (TY I @ 28 SY/EA)										532				19
		TURNOUTS (TY II @ 31 SY/EA)										248				8
CSJ 0713-01-049									747	1,260	122	780	1	10	28	27

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
BURLESON COUNTY
LOCATION NO. 05
FM 60

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	16

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\00491501014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION BURLESON COUNTY NO. 05 FM 60.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
6	FM 3058	3119-01-015	FM 166	FM 60	1,797	2,520	560 -0.02	570 +1.043	0+00	580+27	0	58,027

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
6	FM 3058	BEG. 200' S OF FM 166	2-11' TRVL LN WITH 2-4' SHLDR	0+00	36+28	3,628	30	12,093
		END 200' W OF FM 60 EDGELINE	2-11' TRVL LN WITH 2-4' SHLDR	36+28	580+27	54,399	30	181,330
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				336
CSJ 3119-01-015							PROJECT TOTAL	193,759

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
6	FM 3058	3119-01-015	0	6,209	0	0	0	0	105	0	0	114,898	7,210	80,882	114,898	0	0	0	0	0	0	1,373	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS LT	RADIUS RT	ITEM 530 6003 INTERSECTIONS (SURF TRT)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT)	ITEM 530 6009 TURNOUTS (SURF TRT)	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
6	FM 3058	56+52	LT	CO RD 298	30	16	15	20		69				1		
		88+91	RT	CO RD 220	30	38	60	15		210				1		
		141+77	LT	CO RD 232	30	20	25	25		97				1		
		216+34	RT	CO RD 120	40	25	35	30		162				1		
		270+36	LT	CO RD 236	32	25	30	25		126				1		
		302+34	RT	CO RD 148	35	24	25	25		124				1		
		418+86	RT	CO RD 119	35	26	35	30		152				1		
		441+38	LT	CO RD 244	60	26	70	30		312				1		
		474+84	RT	BEAVER CREEK DR	40	26	25	25		146				1		
		INTERSECTIONS (LISTED ABOVE)							0				0			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								1,398				9		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									144				16	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									192				48	
		TURNOUTS (TY I @ 28 SY/EA)										896				32
		TURNOUTS (TY II @ 31 SY/EA)										279				9
CSJ 3119-01-015									0	1,398	336	1,175	0	9	64	41

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
BURLESON COUNTY
LOCATION NO. 06
FM 3058

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	17

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION BURLESON COUNTY NO. 06 FM 3058.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
7	FM 60	0648-03-076	0.9 MI W of FM 2039	0.4 MI E of FM 2039	5,816	6,979	618 +1.698	618 +2.98	0+00	67+58	0	6,758

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
		FM 60 EASTBOUND RDBD						
		BEG SEAL AT BEG EASTBOUND RDBD	2-12' TRVL LN WITH 1-12' SHLDR AND 1-4' SHLDR	0+00	12+78	1,278	40	5,679
		SEAL FULL WIDTH	TRANSITION	12+78	13+73	95	50	528
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' LT TRN LN, 1-6' SHLDR AND 1-3' SHLDR	13+73	22+60	887	45	4,435
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' SHLDR AND 1-4' SHLDR	22+60	31+42	882	40	3,919
		SEAL FULL WIDTH	TRANSITION	31+42	32+42	100	50	557
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' LT TRN LN, 1-6' SHLDR AND 1-3' SHLDR	32+42	48+95	1,653	45	8,263
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' SHLDR AND 1-4' SHLDR	48+95	58+40	945	40	4,201
		SEAL FULL WIDTH	TRANSITION	58+40	59+40	100	50	557
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' LT TRN LN, 1-6' SHLDR AND 1-3' SHLDR	59+40	64+79	539	45	2,693
		END SEAL AT 0.4 MI E of FM 2039	2-12' TRVL LN WITH 1-12' LT AND 1-12' RT TRN LN, 2-3' SHLDRS	64+79	67+58	280	54	1,679
7	FM 60	**FM 60 WESTBOUND RDBD**						
		BEG SEAL AT BEG EASTBOUND RDBD	TRANSITION	0+00	6+86	686	38	2,898
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' SHLDR AND 1-4' SHLDR	6+86	21+86	1,500	40	6,665
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' LT TRN LN, 1-6' SHLDR AND 1-3' SHLDR	21+86	30+68	882	45	4,409
		SEAL FULL WIDTH	TRANSITION	30+68	32+16	148	51	838
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' SHLDR AND 1-4' SHLDR	32+16	41+61	945	40	4,201
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' LT TRN LN, 1-6' SHLDR AND 1-3' SHLDR	41+61	56+87	1,526	45	7,630
		SEAL FULL WIDTH	TRANSITION	56+87	58+29	143	51	808
		END SEAL AT 0.4 MI E of FM 2039	2-12' TRVL LN WITH 1-12' LT TRN LN, 1-6' SHLDR AND 1-3' SHLDR	58+29	67+58	929	45	4,646
		CROSSOVERS						1,132
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				20
CSJ 0648-03-076							PROJECT TOTAL	65,758

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662 6109 WK ZN PAV MRK SHT TRM (TAB) TY W EA	ITEM 662 6111 WK ZN PAV MRK SHT TRM (TAB) TY Y-2 EA	ITEM 666 6030 REFL PAV MRK TY I (W) (8") (DOT) (100MIL) LF	6036 (8") (SLD) (100MIL) LF	6042 (12") (SLD) (100MIL) LF	6045 (18") (SLD) (100MIL) LF	6048 (24") (SLD) (100MIL) LF	6224 (36") (YLD TRI) (100MIL) EA	6167 REFL PAV MRK TY II (W) (4") (BRK) LF	6170 (4") (SLD) LF	6205 REFL PAV MRK TY II (Y) (4") (BRK) LF	6207 (4") (SLD) LF	ITEM 677 6001 ELIM EXT PAV MRK & MRKS (4") LF	ITEM 668 6056 PREFAB PAV MRK TY B (ACC PRK) (BL&WH) EA	6077 TY C (W) (ARROW) EA	6078 (W) (DBL ARROW) EA	6085 (W) (WORD) EA	6089 (W) (RRXING) EA	ITEM 672 6007 REFL PAV MRKR TY I-C EA	6009 TY II-A-A EA	6010 TY II-C-R EA	ITEM 6056 6001 PREFORMED IN-LANE (TRANS) RUMBLE STRIP LF
7	FM 60	0648-03-076	789	708	0	5,486	0	0	40	56	3,206	13,916	0	14,109	0	0	14	0	14	0	0	5	436	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH (FT)	WIDTH (FT)	RADIUS LT (FT)	RADIUS RT (FT)	ITEM 530 6003 INTERSECTIONS (SURF TRT) (SY)	6006 PUBLIC DRIVEWAYS (SURF TRT) (SY)	*INFO PRIVATE DRIVEWAYS (SURF TRT) (SY)	6009 TURNOUTS (SURF TRT) (SY)	INTERSECTIONS (EA)	PUBLIC DRIVEWAYS (EA)	PRIVATE DRIVEWAYS (EA)	TURNOUTS (EA)
7	FM 60	16+47	LT	COUNTY RD 271	50	20	18	18		127				1		
		41+13	RT	COUNTY RD 270	38	26	35	35		169				1		
		48+36	LT	FM 2039	200	32	35	35	770				1			
		67+58	RT	OLD FM 60	55	32	35	35		254				1		
		INTERSECTIONS (LISTED ABOVE)							770				1			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								550				3		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									0				0	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									20				5	
		TURNOUTS (TY I @ 28 SY/EA)										0				0
		TURNOUTS (TY II @ 31 SY/EA)										0				0
CSJ 0648-03-076									770	550	20	0	1	3	5	0

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
6/25/2021	

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Bryan District

PROJECT SUMMARY BURLESON COUNTY LOCATION NO. 07 FM 60

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	18

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\00491501\4\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION BURLESON COUNTY NO. 07 FM 60.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
8	FM 60	0648-04-002	0.4 MI E of FM 2039	FM 2155	5,487	6,584	0	0	0+00	66+21	0	6,621

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
		FM 60 EASTBOUND RDBD						
		BEG SEAL AT 0.4 MI E OF FM 2039	2-12' TRVL LN WITH 1-12' SHLDR AND 1-4' SHLDR	0+00	24+71	2,471	40	10,982
		SEAL FULL WIDTH	TRANSITION	24+71	25+82	111	50	616
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' LT TRN LN, 1-6' SHLDR AND 1-3' SHLDR	25+82	34+48	866	45	4,330
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' SHLDR AND 1-4' SHLDR	34+48	53+59	1,911	40	8,495
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' SHLDR AND 1-12' SHLDR	53+59	64+89	1,130	48	6,026
		END SEAL 500' WEST OF FM 2155	TRANSITION	64+89	66+21	132	51	748
		FM 60 WESTBOUND RDBD						
8	FM 60	BEG SEAL AT 0.4 MI E OF FM 2039	2-12' TRVL LN WITH 1-12' LT TRN LN, 1-6' SHLDR AND 1-3' SHLDR	0+00	8+24	824	45	4,118
		SEAL FULL WIDTH	TRANSITION	8+24	11+56	333	52	1,922
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' SHLDR AND 1-4' SHLDR	11+56	30+45	1,889	40	8,394
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-12' LT TRN LN, 1-6' SHLDR AND 1-3' SHLDR	30+45	42+56	1,211	45	6,054
		SEAL FULL WIDTH	TRANSITION	42+56	43+88	132	51	748
		END SEAL 500' WEST OF FM 2155	2-12' TRVL LN WITH 1-12' SHLDR AND 1-12' SHLDR	43+88	66+21	2,233	48	11,912
		CROSSOVER						283
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				4
CSJ 0648-04-002							PROJECT TOTAL	64,632

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662 6109 WK ZN PAV MRK SHT TRM (TAB) TY W EA	ITEM 662 6111 WK ZN PAV MRK SHT TRM (TAB) TY Y-2 EA	ITEM 666 6030 REFL PAV MRK TY I (W) (8") (DOT) (100MIL) LF	6036 (8") (SLD) (100MIL) LF	6042 (12") (SLD) (100MIL) LF	6045 (18") (SLD) (100MIL) LF	6048 (24") (SLD) (100MIL) LF	6224 (36") (YLD TRI) (100MIL) EA	6167 REFL PAV MRK TY II (W) (4") (BRK) LF	6170 (4") (SLD) LF	6205 REFL PAV MRK TY II (Y) (4") (BRK) LF	6207 (4") (SLD) LF	ITEM 677 6001 ELIM EXT PAV MRK & MRKS (4") LF	ITEM 668 6056 PREFAB PAV MRK TY B (ACC PRK) (BL&WH) EA	6077 TY C (W) (ARROW) EA	6078 (W) (DBL ARROW) EA	6085 (W) (WORD) EA	6089 (W) (RRXING) EA	ITEM 672 6007 REFL PAV MRKR TY I-C EA	6009 TY II-A-A EA	6010 TY II-C-R EA	ITEM 6056 6001 PREFORMED IN-LANE (TRANS) RUMBLE STRIP LF
8	FM 60	0648-04-002	480	654	0	2,350	0	0	10	98	3,271	13,083	0	13,084	0	0	6	0	6	0	0	0	282	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION	DESCRIPTION	LENGTH (FT)	WIDTH (FT)	RADIUS LT (FT)	RADIUS RT (FT)	ITEM 530 6003 INTERSECTIONS (SURF TRT) (SY)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT) (SY)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT) (SY)	ITEM 530 6009 TURNOUTS (SURF TRT) (SY)	INTERSECTIONS (EA)	PUBLIC DRIVEWAYS (EA)	PRIVATE DRIVEWAYS (EA)	TURNOUTS (EA)
		30+45 RT	SLOVACEL RD	55	24	30	30		190				1		
		INTERSECTIONS (LISTED ABOVE)						0				0			
		PUBLIC DRIVEWAYS (LISTED ABOVE)							190				1		
8	FM 60	*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)								0				0	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)								4				1	
		TURNOUTS (TY I @ 28 SY/EA)									0				0
		TURNOUTS (TY II @ 31 SY/EA)									0				0
CSJ 0648-04-002								0	190	4	0	0	1	1	0

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
7/28/2021	

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Bryan District

PROJECT SUMMARY BURLESON COUNTY LOCATION NO. 08 FM 60

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	19

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\00491501\4\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION BURLESON COUNTY NO. 08 FM 60.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
9	US 84	0057-05-030	FM 1364	FM 489	3,800	5,320	756 +2.014	764 +0.256	0+00	335+19	0	33,519

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
9	US 84	BEG. 800' W OF FM 1364 CL	2-12' TRVL LN WITH 2-10' SHLDR	0+00	22+15	2,215	42	10,337
		SEAL FULL WIDTH	TRANSITION	22+15	29+01	686	54	4,116
		SEAL FULL WIDTH	4-12' TRVL LN WITH 2-6' SHLDR	29+01	43+58	1,457	60	9,713
		SEAL FULL WIDTH	TRANSITION	43+58	48+61	503	56	3,130
		SEAL FULL WIDTH	3-12' SHLDR WITH 2-7' SHLDR	48+61	62+40	1,379	50	7,661
		SEAL FULL WIDTH	TRANSITION	62+40	65+77	337	48	1,797
		SEAL FULL WIDTH	2-12' TRVL LN WITH 2-10' SHLDR	65+77	200+15	13,438	44	65,697
		SEAL FULL WIDTH	TRANSITION	200+15	206+32	617	54	3,702
		SEAL FULL WIDTH	2-12' TRVL LN WITH 1-14' CONT. LT TRN LN AND 2-10' SHLDR	206+32	216+27	995	58	6,412
		SEAL FULL WIDTH	TRANSITION	216+27	221+22	495	54	2,970
		SEAL FULL WIDTH	2-12' TRVL LN WITH 2-10' SHLDR	221+22	324+96	10,374	44	50,717
		SEAL FULL WIDTH / END 80' W OF FM 489 EDGE LINE	TRANSITION	324+96	335+09	1,013	46	5,178
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				211
CSJ 0057-05-030							PROJECT TOTAL	171,641

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662 6109 WK ZN PAV MRK SHT TRM (TAB) TY W EA	ITEM 662 6111 WK ZN PAV MRK SHT TRM (TAB) TY Y-2 EA	ITEM 666 6030 REFL PAV MRK TY I (W) (8") (DOT) (100MIL) LF	6036 (8") (SLD) (100MIL) LF	6042 (12") (SLD) (100MIL) LF	6045 (18") (SLD) (100MIL) LF	6048 (24") (SLD) (100MIL) LF	6224 (36") (YLD TRI) (100MIL) EA	6167 REFL PAV MRK TY II (W) (4") (BRK) LF	6170 (4") (SLD) LF	6205 REFL PAV MRK TY II (Y) (4") (BRK) LF	6207 (4") (SLD) LF	ITEM 677 6001 ELIM EXT PAV MRK & MRKS (4") LF	ITEM 668 6056 PREFAB PAV MRK TY B (ACC PRK) (BL&WH) EA	6077 TY C (W) (ARROW) EA	6078 (W) (DBL ARROW) EA	6085 (W) (WORD) EA	6089 (W) (RRXING) EA	ITEM 672 6007 REFL PAV MRKR TY I-C EA	6009 TY II-A-A EA	6010 TY II-C-R EA	ITEM 6056 6001 PREFORMED IN-LANE (TRANS) RUMBLE STRIP LF
9	US 84	0057-05-030	180	3,644	0	913	0	0	24	0	1,177	64,961	6,591	33,301	0	0	3	0	3	0	105	698	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH (FT)	WIDTH (FT)	RADIUS LT (FT)	RADIUS RT (FT)	ITEM 530 6003 INTERSECTIONS (SURF TRT) (SY)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT) (SY)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT) (SY)	ITEM 530 6009 TURNOUTS (SURF TRT) (SY)	INTERSECTIONS (EA)	PUBLIC DRIVEWAYS (EA)	PRIVATE DRIVEWAYS (EA)	TURNOUTS (EA)
9	US 84	8+00	LT	FM 1364	200	28	45	40	709				1			
		28+61	RT	CO RD 415	20	22	20	15		64				1		
		123+29	RT	CO RD 360	35	34	105	25		345				1		
		215+05	LT	CO RD 250	30	24	20	40		128				1		
		334+29	LT	N FM 489	200	28	40	40	699				1			
		334+29	RT	S FM 489	200	26	40	40	655				1			
		INTERSECTIONS (LISTED ABOVE)							2063				3			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								537				3		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									63				7	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									148				37	
		TURNOUTS (TY I @ 28 SY/EA)										252				9
		TURNOUTS (TY II @ 31 SY/EA)										0				0
CSJ 0057-05-030									2063	537	211	252	3	3	44	9

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
FREESTONE COUNTY
LOCATION NO. 09
US 84

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	20

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION FREESTONE COUNTY NO. 09 US 84.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
10	US 287	0122-03-032	Navarro County Line	Anderson County Line	2,049	2,870	564 +0.000	568 +0.337	0+00	222+86	CONC BRIDGE	22,286

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
10	US 287	BEG. AT PAVE CHANGE AT NAVARRO CL	2-12' TRVL LN WITH 2-12' SHLDR	0+00	96+27	9,627	48	51,344
		SEAL FULL WIDTH	TRANSITION	96+27	98+84	257	42	1,199
		CONC. BRIDGE	NO SEAL	98+84	102+37	353	0	0
		SEAL FULL WIDTH	TRANSITION	102+37	104+66	229	45	1,145
		SEAL FULL WIDTH	2-12' TRVL LN WITH 2-12' SHLDR	104+66	127+70	2,304	48	12,288
		SEAL FULL WIDTH	TRANSITION	127+70	129+98	228	47	1,191
		CONC. BRIDGE	NO SEAL	129+98	136+93	695	0	0
		SEAL FULL WIDTH	TRANSITION	136+93	143+48	655	48	3,493
		CONC. BRIDGE	NO SEAL	143+48	152+08	860	0	0
		SEAL FULL WIDTH	TRANSITION	152+08	155+04	296	47	1,546
		SEAL FULL WIDTH	2-12' TRVL LN WITH 2-12' SHLDR	155+04	166+81	1,177	48	6,277
		SEAL FULL WIDTH	TRANSITION	166+81	168+67	186	46	951
		CONC. BRIDGE	NO SEAL	168+67	173+99	532	0	0
		SEAL FULL WIDTH	TRANSITION	173+99	176+19	220	46	1,124
		SEAL FULL WIDTH	2-12' TRVL LN WITH 2-12' SHLDR	176+19	221+50	4,531	48	24,165
		END SEAL AT BEG CONC BRIDGE	TRANSITION	221+50	222+86	136	46	695
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				54
CSJ 0122-03-032							PROJECT TOTAL	105,473

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662 6109 WK ZN PAV MRK SHT TRM (TAB) TY W EA	ITEM 662 6111 WK ZN PAV MRK SHT TRM (TAB) TY Y-2 EA	ITEM 666 6030 REFL PAV MRK TY I (W) (8") (DOT) (100MIL) LF	ITEM 666 6036 REFL PAV MRK TY I (W) (8") (SLD) (100MIL) LF	ITEM 666 6042 REFL PAV MRK TY I (W) (12") (SLD) (100MIL) LF	ITEM 666 6045 REFL PAV MRK TY I (W) (18") (SLD) 6056 LF	ITEM 666 6048 REFL PAV MRK TY I (W) (24") (SLD) 666342 LF	ITEM 666 6224 REFL PAV MRK TY I (W) (36") (YLD TRI) (100MIL) EA	ITEM 666 6167 REFL PAV MRK TY II (W) (4") (BRK) LF	ITEM 666 6170 REFL PAV MRK TY II (W) (4") (SLD) LF	ITEM 666 6205 REFL PAV MRK TY II (Y) (4") (BRK) LF	ITEM 666 6207 REFL PAV MRK TY II (Y) (4") (SLD) LF	ITEM 677 6001 ELIM EXT PAV MRK & MRKS (4") LF	ITEM 668 6056 PREFAB PAV MRK TY B (ACC PRK) (BL&WH) EA	ITEM 668 6077 PREFAB PAV MRK TY C (W) (ARROW) EA	ITEM 668 6078 PREFAB PAV MRK TY C (W) (DBL ARROW) EA	ITEM 668 6085 PREFAB PAV MRK TY C (W) (WORD) EA	ITEM 668 6089 PREFAB PAV MRK TY C (W) (RRXING) EA	ITEM 672 6007 REFL PAV MRKR TY I-C EA	ITEM 672 6009 REFL PAV MRKR TY II-A-A EA	ITEM 672 6010 REFL PAV MRKR TY II-C-R EA	ITEM 6056 6001 PREFORMED IN-LANE (TRANS) RUMBLE STRIP LF
10	US 287	0122-03-032	0	1,694	0	0	0	0	12	0	0	38,658	4,873	4,594	48,125	0	0	0	0	0	0	330	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION	DESCRIPTION	LENGTH (FT)	WIDTH (FT)	RADIUS LT (FT)	RADIUS RT (FT)	ITEM 530 6003 INTERSECTIONS (SURF TRT) (SY)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT) (SY)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT) (SY)	ITEM 530 6009 TURNOUTS (SURF TRT) (SY)	INTERSECTIONS (EA)	PUBLIC DRIVEWAYS (EA)	PRIVATE DRIVEWAYS (EA)	TURNOUTS (EA)
10	US 287	91+46 RT	FM 488	200	45	40	40	1077				1			
		INTERSECTIONS (LISTED ABOVE)						1,077				1			
		PUBLIC DRIVEWAYS (LISTED ABOVE)							0				0		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)								54				6	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)								0				0	
		TURNOUTS (TY I @ 28 SY/EA)									0				0
		TURNOUTS (TY II @ 31 SY/EA)									0				0
CSJ 0122-03-032								1077	0	54	0	1	0	6	0

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
FREESTONE COUNTY
LOCATION NO. 10
US 287

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	21

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION FREESTONE COUNTY NO. 10 US 287.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS		ADT		REFERENCE MARKERS **		STATION		SKIPPED LOCATIONS	NET LENGTH (FT)
			FROM	TO	2018	2038	BEGIN	END	FROM	TO		
11	SH 75	0166-03-035	US 84	Leon County Line	279	410	340 +0.963	358 +0.560	0+00	922+46	0	92,246

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
11	SH 75	BEG. AT CONC. SEAM AT US 84	4-12' TRVL LN WITH 2-6' SHLDR	0+00	10+97	1,097	60	7,313
		SEAL FULL WIDTH	TRANSITION	10+97	17+37	640	48	3,413
		SEAL FULL WIDTH	2-12' TRVL LN WITH 2-9'	17+37	87+80	7,043	42	32,867
		SEAL FULL WIDTH	TRANSITION	87+80	89+81	201	33	737
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-1' SHLDR	89+81	148+89	5,908	24	15,755
		SEAL FULL WIDTH	TRANSITION	148+89	157+32	843	56	5,245
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-1' SHLDR	157+32	293+22	13,590	24	36,240
		SEAL FULL WIDTH	TRANSITION	293+22	300+00	678	32	2,411
		SEAL FULL WIDTH	3-11' TRVL LN WITH 2-1' SHLDR	300+00	305+75	575	35	2,236
		SEAL FULL WIDTH	TRANSITION	305+75	310+47	472	32	1,678
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-1' SHLDR	310+47	365+81	5,534	24	14,757
		SEAL FULL WIDTH	TRANSITION	365+81	370+65	484	33	1,775
		SEAL FULL WIDTH	3-11' TRVL LN WITH 2-2' SHLDR	370+65	377+69	704	37	2,894
		SEAL FULL WIDTH	TRANSITION	377+69	386+35	866	34	3,272
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-1' SHLDR	386+35	471+39	8,504	24	22,677
		SEAL FULL WIDTH	TRANSITION	471+39	479+07	768	36	3,072
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-1' SHLDR	479+07	629+59	15,052	24	40,139
		SEAL FULL WIDTH	TRANSITION	629+59	663+69	3,410	40	15,156
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-1' SHLDR	663+69	727+79	6,410	24	17,093
		SEAL FULL WIDTH	TRANSITION	727+79	732+08	429	32	1,525
		SEAL FULL WIDTH	3-11' TRVL LN WITH 2-1' SHLDR	732+08	764+05	3,197	35	12,433
		SEAL FULL WIDTH	TRANSITION	764+05	768+10	405	32	1,440
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-1' SHLDR	768+10	828+13	6,003	24	16,008
		SEAL FULL WIDTH	TRANSITION	828+13	833+43	530	32	1,884
		SEAL FULL WIDTH	3-11' TRVL LN WITH 2-1' SHLDR	833+43	884+50	5,107	35	19,861
		SEAL FULL WIDTH	TRANSITION	884+50	889+86	536	29	1,727
		SEAL FULL WIDTH / END AT LEON CL	2-11' TRVL LN WITH 2-1' SHLDR	889+86	922+46	3,260	24	8,693
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				171
CSJ 0166-03-035							PROJECT TOTAL	292,473

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK		REFL PAV MRK TY I						REFL PAV MRK TY II		REFL PAV MRK TY II		ELIM EXT PAV	PREFAB PAV MRK					REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			SHT TRM (TAB)		(W)						(W)		(Y)		MRK & MRKS	TY B	TY C							
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
11	SH 75	0166-03-035	287	9,309	0	106	0	0	36	0	3,683	184,573	16,428	87,579	288,580	0	2	0	1	0	191	1,959	0	80

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
FREESTONE COUNTY
LOCATION NO. 11
SH 75

SHEET 01 OF 02 SHEETS

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY	
TEXAS	BRY	ROBERTSON, ETC.	
CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	22

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\00491501\4\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION FREESTONE COUNTY NO. 11 SH 75.dgn

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS		ITEM 530				INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
									6003	6006	*INFO	6009				
							LT	RT	INTERSECTIONS (SURF TRT)	PUBLIC DRIVEWAYS (SURF TRT)	PRIVATE DRIVEWAYS (SURF TRT)	TURNOUTS (SURF TRT)				
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
11	SH 75	6+42	LT	W REUNION ST	22	28	15	15		80				1		
		6+42	RT	E REUNION ST	20	26	15	15		69				1		
		16+92	LT	RENEE ST	35	20	25	25		108				1		
		20+07	LT	E HEATHER ST	30	20	25	25		97				1		
		20+07	RT	W HEATHER ST	30	18	25	25		90				1		
		22+94	LT	JAMES ST	30	20	25	25		97				1		
		26+02	LT	E BARNES ST	30	24	25	25		110				1		
		26+48	RT	W BARNES ST	25	18	20	20		70				1		
		36+97	LT	BLANTON ST	25	20	20	20		75				1		
		40+87	LT	DOGAN ST	30	22	20	25		98				1		
		59+31	LT	E CHURCH ST	45	24	60	25		220				1		
		59+31	RT	W CHURCH ST N	45	16	50	15		145				1		
		62+35	RT	W CHURCH ST S	35	90	25	25		380				1		
		88+43	LT	E CO RD 606	30	24	25	25		110				1		
		88+43	RT	W CO RD 606	15	30	20	30		79				1		
		117+79	LT	CO RD 497 N	25	26	20	30		104				1		
		131+37	LT	CO RD 497 S	35	18	25	10		88				1		
		149+65	LT	CO RD 496	25	16	20	10		57				1		
		166+52	LT	CO RD 110	20	22	25	25		79				1		
		214+20	LT	CO RD 490	40	20	40	30		149				1		
		325+97	RT	CO RD 660	93	30	40	40		387				1		
		409+38	LT	E CO RD 481	35	20	25	25		108				1		
		409+38	RT	W CO RD 481	35	18	20	20		90				1		
		478+66	LT	E FM 489	200	32	25	45	775				1			
		478+66	RT	W FM 489	125	42	30	20	615				1			
		550+44	LT	CO RD 404	30	26	10	35		119				1		
		766+31	LT	CO RD 402	35	26	35	45		179				1		
		856+41	RT	CO RD 691	30	25	35	35						1		
		878+63	LT	CO RD 400	25	25	35	35						1		
		INTERSECTIONS (LISTED ABOVE)							1390				2			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								3,188				27		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									171				19	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									0				0	
		TURNOUTS (TY I @ 28 SY/EA)										0				0
		TURNOUTS (TY II @ 31 SY/EA)										0				0
CSJ 0166-03-035									1390	3,188	171	0	2	27	19	0

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION FREESTONE COUNTY NO. 11 SH 75.dgn
REV DATE: 2-12-2015
CSJ: 0049-15-014

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District
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PROJECT SUMMARY
FREESTONE COUNTY
LOCATION NO. 11
SH 75

SHEET 02 OF 02 SHEETS

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY	
TEXAS	BRY	ROBERTSON, ETC.	
CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	23

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
12	FM 27	0456-02-032	6.4 Mi E of FM 80 (CR 941)	IH 45 WFR	291	590	364 -0.040	376 +0.193	0+00	146+41	0	14,641

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
12	FM 27	BEG. 6.4 MI E OF FM 80 (CR 941)	2-12' TRVL LN WITH 2-9' SHLDR	0+00	130+73	13,073	42	61,009
		SEAL FULL WIDTH	TRANSITION	130+73	133+32	259	43	1,236
		END AT IH 45 CONC BRIDGE	2-12' TRVL LN WITH 1-12' TRN LN AND 2-4' SHLDR	133+32	146+41	1,309	44	6,402
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				252
CSJ 0456-02-032							PROJECT TOTAL	68,898

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK		REFL PAV MRK TY I						REFL PAV MRK TY II		REFL PAV MRK TY II		ELIM EXT PAV	PREFAB PAV MRK					REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			SHT TRM (TAB)		(W)						(W)		(Y)		MRK & MRKS	TY B	TY C							
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF		EA	EA	EA	EA	EA	EA	EA	LF
12	FM 27	0456-02-032	35	1,749	0	343	0	0	0	0	0	29,389	3,057	16,622	0	0	3	0	3	0	18	342	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS LT	RADIUS RT	ITEM 530 6003 INTERSECTIONS (SURF TRT)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT)	ITEM 530 6009 TURNOUTS (SURF TRT)	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
12	FM 27	4+00	RT	CO RD 941	30	20	25	25		97				1		
		51+05	LT	CO RD 1235	30	16	25	25		84				1		
		63+28	LT	CO RD 1171	25	26	20	25		97				1		
		74+78	LT	CO RD 1241	30	22	25	20		98				1		
		81+02	RT	CO RD 1259	30	22	25	25		104				1		
		80+99	RT	CO RD 1291	25	22	25	25		91				1		
		81+68	LT	CO RD 1255	25	24	20	25		92				1		
		100+66	LT	CO RD 1261	30	18	25	25		90				1		
		113+41	LT	CO RD 1266	25	22	20	20		81				1		
		123+13	LT	CO RD 1269	30	22	30	20		105				1		
		142+98	LT	IH 45 WFR	100	38	50	50	542				1			
		142+98	RT	IH 45 WFR	80	34	35	35	361				1			
		INTERSECTIONS (LISTED ABOVE)							0				0			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								939				10		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									72				8	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									180				45	
		TURNOUTS (TY I @ 28 SY/EA)										84				3
		TURNOUTS (TY II @ 31 SY/EA)										31				1
CSJ 0456-02-032									0	939	252	115	0	10	53	4

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

REV DATE: 2-12-2015
CSJ: 0049-15-014
FILENAME: G:\00491501\4\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION FREESTONE COUNTY NO. 12 FM 27.dgn

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
FREESTONE COUNTY
LOCATION NO. 12
FM 27

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	24

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS		ADT		REFERENCE MARKERS **		STATION		SKIPPED LOCATIONS	NET LENGTH (FT)
			FROM	TO	2018	2038	BEGIN	END	FROM	TO		
13	FM 80	0612-01-052	BU 84-R	SH 164	3,571	5,790	#REFR	#REFR	0+00	632+07	CONC BRIDGE & RRX	63,207

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SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
13	FM 80	BEG. 200' S OF BU 84-R	TRANSITION	0+00	9+76	976	37	4,012
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-1' SHLDR	9+76	18+10	834	24	2,224
		SEAL FULL WIDTH	TRANSITION	18+10	20+96	286	28	890
		SKIP CONC. RRX	NO SEAL	20+96	21+08	12	0	0
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-2' SHLDR	21+08	46+50	2,542	26	7,344
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-1.5' SHLDR	46+50	60+06	1,356	25	3,767
		SEAL FULL WIDTH	TRANSITION	60+06	61+26	120	29	387
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-4' SHLDR	61+26	154+20	9,294	30	30,980
		SEAL FULL WIDTH	TRANSITION	154+20	156+18	198	25	550
		SKIP CONC. BRIDGE	NO SEAL	156+18	156+75	57	0	0
		SEAL FULL WIDTH	TRANSITION	156+75	159+10	235	25	653
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-4' SHLDR	159+10	241+60	8,250	30	27,500
		SEAL FULL WIDTH	TRANSITION	241+60	243+90	230	26	664
		SKIP CONC. BRIDGE	NO SEAL	243+90	244+50	60	0	0
		SEAL FULL WIDTH	TRANSITION	244+50	246+90	240	26	693
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-4' SHLDR	246+90	275+16	2,826	30	9,420
		SKIP CONC. BRIDGE	NO SEAL	275+16	275+41	25	0	0
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-4' SHLDR	275+41	367+47	9,206	30	30,687
		SEAL FULL WIDTH	TRANSITION	367+47	372+26	479	39	2,076
		SEAL FULL WIDTH	2-11' TRVL LN WITH 1-14' LT TRN LN AND 2-3' SHLDR	372+26	378+79	653	42	3,047
		SEAL FULL WIDTH	TRANSITION	378+79	383+90	511	40	2,271
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-4' SHLDR	383+90	397+42	1,352	30	4,507
		SEAL FULL WIDTH	TRANSITION	397+42	402+05	463	29	1,492
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-3' SHLDR	402+05	421+72	1,967	28	6,120
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-2' SHLDR	421+72	517+77	9,605	26	27,748
		SEAL FULL WIDTH	TRANSITION	517+77	524+64	687	25	1,908
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-2' SHLDR	524+64	558+71	3,407	26	9,842
		SEAL FULL WIDTH	TRANSITION	558+71	564+60	589	24	1,571
		SEAL FULL WIDTH / END 200' N OF SH 164 EDGELINE	2-11' TRVL LN WITH 2-2' SHLDR	564+60	632+07	6,747	26	19,491
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				852
CSJ 0612-01-052							PROJECT TOTAL	200,695

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK		REFL PAV MRK TY I						REFL PAV MRK TY II		REFL PAV MRK TY II		ELIM EXT PAV	PREFAB PAV MRK					REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			SHT TRM (TAB)		(W)						(W)		(Y)		MRK & MRKS	TY B	TY C							
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH)	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
13	FM 80	0612-01-052	44	6,850	0	433	0	0	300	0	0	126,586	9,603	79,389	215,578	0	2	0	2	3	22	1,459	0	0

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Bryan District

PROJECT SUMMARY
FREESTONE COUNTY
LOCATION NO. 13
FM 80
SHEET 01 OF 02 SHEETS

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY	
TEXAS	BRY	ROBERTSON, ETC.	
CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	25

REV DATE: 2-12-2015
CSJ: 0049-15-014
FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION FREESTONE COUNTY NO. 13 FM 80.dgn

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS		ITEM 530				INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
									6003	6006	*INFO	6009				
							LT	RT	INTERSECTIONS (SURF TRT)	PUBLIC DRIVEWAYS (SURF TRT)	PRIVATE DRIVEWAYS (SURF TRT)	TURNOUTS (SURF TRT)				
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
13	FM 80	1+53	LT	E ELM ST	15	40	15	15		78				1		
		1+53	RT	W ELM ST	15	40	15	15		78				1		
		5+20	LT	E OAK ST	15	24	15	15		51				1		
		5+20	RT	W OAK ST	15	24	15	15		51				1		
		8+98	LT	POPLAR ST	15	26	15	15		55				1		
		12+69	LT	E PINE ST	15	18	15	15		41				1		
		12+69	RT	W PINE ST	15	16	15	15		38				1		
		16+20	LT	MULBERRY ST	15	18	15	15		41				1		
		16+20	RT	JACKSON ST	15	20	15	15		45				1		
		19+35	LT	CHINA ST	30	40	20	20		153				1		
		19+60	LT	5TH AVE	25	20	15	15		67				1		
		22+91	RT	TYLER ST	40	20	15	20		104				1		
		26+42	RT	ADAMS ST	15	20	15	15		45				1		
		29+41	RT	BOOKER T. WASHINGTON ST	65	20	25	15		165				1		
		38+54	RT	CO RD 851	20	16	15	15		47				1		
		71+08	LT	E CO RD 841	25	24	20	30		98				1		
		89+04	RT	W CO RD 841	35	24	30	25		130				1		
		204+03	RT	CO RD 830	35	20	35	20		117				1		
		230+30	RT	CO RD 820	35	26	60	60		263				1		
		267+29	LT	E CO RD 731	28	18	25	15		77				1		
		267+29	RT	W CO RD 731	80	32	75	25		434				1		
		282+68	RT	CO RD 743	18	54	20	15		123				1		
		324+85	RT	CO RD 742	20	20	25	25		75				1		
		335+63	LT	CO RD 711	140	20	25	88		511				1		
		372+89	RT	FM 489 W	200	34	50	50	875				1			
		378+57	LT	CR 740	25	20	15	15		67				1		
		394+24	LT	FM 489 E	90	30	60	60	472				1			
		421+38	LT	E CO RD 750	35	24	30	35		145				1		
		421+38	RT	W CO RD 750	35	32	40	30		184				1		
		467+04	LT	CO RD 764	40	22	50	35		187				1		
		510+14	RT	CO RD 752 N	85	16	45	10		202				1		
		511+23	RT	CO RD 752 S	90	18	45	5		229				1		
		615+86	LT	E CO RD 754	35	18	15	15		81				1		
		615+86	RT	W CO RD 754	35	20	20	15		93				1		
		630+54	RT	ELM ST	30	16	25	20		78				1		
		INTERSECTIONS (LISTED ABOVE)							1347				2			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								4,153				33		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									792				88	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									60				15	
		TURNOUTS (TY I @ 28 SY/EA)										1,204				43
		TURNOUTS (TY II @ 31 SY/EA)										434				14
CSJ 0612-01-052									1347	4,153	852	1,638	2	33	103	57

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
FREESTONE COUNTY
LOCATION NO. 13
FM 80

SHEET 02 OF 02 SHEETS

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY	
TEXAS	BRY	ROBERTSON, ETC.	
CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	26

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION FREESTONE COUNTY NO. 13 FM 80.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
14	FM1364	1329-01-006	End of Pavement	US 84	2,159	3,020	338 -0.011	339 +0.023	0+00	59+87	0	5,987

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
14	FM1364	BEG. 200' N OF US 84 EDGELINE	2-13' TRVL LN	0+00	18+36	1,836	26	5,304
		SEAL FULL WIDTH	2-12' TRVL LN	18+36	48+39	3,003	24	8,008
		SEAL FULL WIDTH / END AT END OF PAVEMENT	2-13' TRVL LN	48+39	59+87	1,148	26	3,316
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				31
CSJ 1329-01-006							PROJECT TOTAL	16,659

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6102	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK		REFL PAV MRK TY I						REFL PAV MRK TY II		REFL PAV MRK TY II		ELIM EXT PAV	PREFAB PAV MRK					REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			SHT TRM (TAB)		(W)						(W)		(Y)		MRK & MRKS	TY B	TY C							
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF		EA	EA	EA	EA	EA	EA	EA	LF
14	FM1364	1329-01-006	0	622	0	0	0	0	32	0	0	0	315	10,576	0	0	0	0	0	0	0	147	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS LT	RADIUS RT	ITEM 530 6003 INTERSECTIONS (SURF TRT)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT)	ITEM 530 6009 TURNOUTS (SURF TRT)	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
14	FM1364	38+96	LT	CO RD 248	25	20	25	10		73				1		
		61+37	LT	CO RD 251	35	20	15	35		113				1		
		61+37	LT	CO RD 240	85	30	0	0		284				1		
		61+37	RT	CO RD 255	40	22	45	10		149				1		
		INTERSECTIONS (LISTED ABOVE)							0				0			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								619				4		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									27				3	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									4				1	
		TURNOUTS (TY I @ 28 SY/EA)										0				0
		TURNOUTS (TY II @ 31 SY/EA)										0				0
CSJ 1329-01-006									0	619	31	0	0	4	4	0

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District
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PROJECT SUMMARY
FREESTONE COUNTY
LOCATION NO. 14
FM 1364

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	27

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION FREESTONE COUNTY NO. 14 FM 1364.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS		ADT		REFERENCE MARKERS **		STATION		SKIPPED LOCATIONS	NET LENGTH (FT)
			FROM	TO	2018	2038	BEGIN	END	FROM	TO		
15	FM 489	2672-01-007	US 84	The End of State Maintenance	3,032	4,250	648 +0.035	653 +0.032	0+00	258+80	0	25,880

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
15	FM 489	BEG. 200' N OF US 84 EDGELINE	2-11' TRVL LN	0+00	1+20	120	22	293
		SEAL FULL WIDTH / END AT END OF STATE MAINT.	2-10' TRVL LN	1+20	258+80	25,760	20	57,244
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				260
CSJ 2672-01-007							PROJECT TOTAL	57,798

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6102	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
15	FM 489	2672-01-007	0	2,784	0	0	0	0	56	0	0	0	2,612	40,007	0	0	0	0	0	0	0	630	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS LT	RADIUS RT	ITEM 530 6003 INTERSECTIONS (SURF TRT)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT)	ITEM 530 6009 TURNOUTS (SURF TRT)	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
15	FM 489	99+73	LT	CO RD 250	55	26	50	5		220				1		
		148+63	LT	CO RD 257	40	20	30	40		149				1		
		178+83	LT	CO RD 243	40	20	30	35		140				1		
		184+17	RT	CO RD 261	30	22	25	30		110				1		
		260+70	LT	CO RD 241	150	22	0	0		367				1		
		260+70	LT	CO RD 240	32	22	15	25		99				1		
		260+70	RT	CO RD 271	30	22	30	15		101				1		
		INTERSECTIONS (LISTED ABOVE)							0				0			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								1,186				7		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									252				28	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									8				2	
		TURNOUTS (TY I @ 28 SY/EA)										504				18
		TURNOUTS (TY II @ 31 SY/EA)										620				20
CSJ 2672-01-007									0	1,186	260	1,124	0	7	30	38

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\00491501\14\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION FREESTONE COUNTY NO. 15 FM 489.dgn

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
FREESTONE COUNTY
LOCATION NO. 15
FM 489

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.
STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.
CONTROL	SECTION	JOB / SHEET NO.
0049	15	014, ETC. / 28

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
16	FM 3059	3130-01-008	SH 75	Navarro County Line	3,886	5,600	616 -0.041	622 +0.016	0+00	256+35	0	25,635

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
16	FM 3059	BEG. 150' FROM EDGE LINE OF SH 75	2-11' TRVL LN WITH 2-1' SHLDR	0+00	256+35	25,635	24	68,360
		SEAL FULL WIDTH / END AT END OF PAVEMENT						
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				207
CSJ 3130-01-008							PROJECT TOTAL	68,567

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6102	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
16	FM 3059	3130-01-008	0	2439	0	0	0	0	32	0	0	51057	5219	17472	0	0	0	0	0	0	0	480	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS LT	RADIUS RT	ITEM 530 6003 INTERSECTIONS (SURF TRT)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT)	ITEM 530 6009 TURNOUTS (SURF TRT)	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
16	FM 3059	53+30	LT	CO RD 143	40	18	25	25		110				1		
		100+18	LT	N CO RD 141	35	20	15	20		93				1		
		100+18	RT	S CO RD 141	35	22	20	20		105				1		
		221+69	RT	CO RD 171	35	22	25	55		170				1		
		INTERSECTIONS (LISTED ABOVE)							0				0			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								478				4		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									207				23	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									0				0	
		TURNOUTS (TY I @ 28 SY/EA)										364				13
		TURNOUTS (TY II @ 31 SY/EA)										93				3
CSJ 3130-01-008									0	478	207	457	0	4	23	16

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

REV DATE: 2-12-2015
CSJ: 0049-15-014
FILENAME: Gr\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION FREESTONE COUNTY NO. 16 FM 3059.dgn

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
FREESTONE COUNTY
LOCATION NO. 16
FM 3059

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	29

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
17	SH 90	0315-02-057	The Madison County Line	FM 39	4,200	5,590	398 +0.011	410 +1.755	0+00	704+77	0	70,477

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
17	SH 90	BEG MADISON CL	2-12' LNS WITH 2-10' SHLDRS	0+00	276+88	27,688	44	135,365
		SEAL FULL WIDTH	2-12' LNS WITH 1-10' SHLDRS AND 1-16' SHLDR	276+88	279+63	275	50	1,525
		SEAL FULL WIDTH	2-12' LNS W/ 1-10' SHLDR AND LTURN LN	279+63	281+27	164	48	873
		SEAL FULL WIDTH	TRANSITION	281+27	282+43	116	50	645
		SEAL FULL WIDTH	2-12' LNS WITH 2-10' SHLDRS	282+43	387+08	10,465	44	51,162
		SEAL FULL WIDTH	2-11' LNS WITH 2-8' SHLDRS	387+08	392+04	496	38	2,096
		SEAL FULL WIDTH	2-12' LNS WITH 2-10' SHLDRS	392+04	402+92	1,088	44	5,318
		SEAL FULL WIDTH	2-11' LNS WITH 2-8' SHLDRS	402+92	406+77	385	38	1,627
		SEAL FULL WIDTH	2-12' LNS WITH 2-10' SHLDRS	406+77	426+41	1,964	44	9,603
		SEAL FULL WIDTH	2-11' LNS WITH 2-8' SHLDRS	426+41	430+11	370	38	1,561
		END SEAL AT PAVE SEAM 1500 FT N OF FM 39	2-12' LNS WITH 2-10' SHLDRS	430+11	704+77	27,467	44	134,281
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				0
CSJ 0315-02-057							PROJECT TOTAL	344,055

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662 6109 WK ZN PAV MRK SHT TRM (TAB) TY W	ITEM 662 6111 WK ZN PAV MRK SHT TRM (TAB) TY Y-2	ITEM 666 6030 REFL PAV MRK TY I (W) (8") (DOT) (100MIL)	6036 (8") (SLD) (100MIL)	6042 (12") (SLD) (100MIL)	6045 (18") (SLD) (100MIL)	6048 (24") (SLD) (100MIL)	6224 (36") (YLD TRI) (100MIL)	6167 REFL PAV MRK TY II (W) (4") (BRK)	6170 (4") (SLD)	6205 REFL PAV MRK TY II (Y) (4") (BRK)	6207 (4") (SLD)	ITEM 677 6001 ELIM EXT PAV MRK & MRKS (4")	ITEM 668 6056 PREFAB PAV MRK TY B (ACC PRK) (BL&WH)	6077 TY C (W) (ARROW)	6078 (W) (DBL ARROW)	6085 (W) (WORD)	6089 (W) (RRXING)	ITEM 672 6007 REFL PAV MRKR TY I-C	6009 TY II-A-A	6010 TY II-C-R	ITEM 6056 6001 PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
17	SH 90	0315-02-057	17	6,923	0	168	0	0	204	0	0	143,009	15,830	43,380	0	0	2	0	2	0	9	1,331	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH (FT)	WIDTH (FT)	RADIUS LT (FT)	RADIUS RT (FT)	ITEM 530 6003 INTERSECTIONS (SURF TRT) (SY)	6006 PUBLIC DRIVEWAYS (SURF TRT) (SY)	*INFO PRIVATE DRIVEWAYS (SURF TRT) (SY)	6009 TURNOUTS (SURF TRT) (SY)	INTERSECTIONS (EA)	PUBLIC DRIVEWAYS (EA)	PRIVATE DRIVEWAYS (EA)	TURNOUTS (EA)
17	SH 90	38+07	LT	COUNTY RD 132	32	24	20	25		110				1		
		49+32	RT	COUNTY RD 115A	25	12	20	20		53				1		
		53+28	LT	COUNTY RD 115	25	22	20	20		81				1		
		222+34	LT	COUNTY RD 117	33	22	10	100		262				1		
		222+87	LT	COUNTY RD 141	36	24	25	25		126				1		
		223+34	RT	COUNTY RD 117	20	18	50	15		95				1		
		263+74	RT	COUNTY RD 116	26	26	25	90		225				1		
		268+33	LT	SYCAMORE ST	20	18	20	20		60				1		
		271+92	LT	CEDAR ST	20	16	20	20		55				1		
		271+92	RT	CEDAR ST	20	14	20	20		51				1		
		275+46	LT	PLIM ST	20	18	20	20		60				1		
		275+46	RT	PLUM ST	20	15	20	20		53				1		
		279+26	LT	FM 1696	200	50	25	25	1141				1			
		279+26	RT	SL 361	30	28	15	15	105				1			
		282+96	LT	MAGNOLIA ST	20	20	20	20		64				1		
		282+96	RT	MAGNOLIA ST	20	25	10	10		61				1		
		286+76	LT	HENNYE ST	20	20	20	20	64	64			1	1		
		286+76	RT	FM 1696	200	30	30	25		704				1		
		346+95	LT	BOB MATHEWS RD	20	30	15	20								
		309+20	RT	COUNTY RD 130	30	18	20	20		80				1		
		360+57	LT	COUNTY RD 144	29	18	20	20		78				1		
		384+75	LT	COUNTY RD 145	18	20	20	20		60				1		
		571+45	LT	COUNTY RD 150	28	24	20	25		100				1		
		662+90	RT	COUNTY RD 155	18	20	20	20		60				1		
				INTERSECTIONS (LISTED ABOVE)					1310				3			
				PUBLIC DRIVEWAYS (LISTED ABOVE)						2,502				21		
				*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)							0				0	
				*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)							0				0	
				TURNOUTS (TY I @ 28 SY/EA)								0				0
				TURNOUTS (TY II @ 31 SY/EA)								0				0
CSJ 0315-02-057									1310	2,502	0	0	3	21	0	0

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
5/24/2021	

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Bryan District

PROJECT SUMMARY
GRIMES COUNTY
LOCATION NO. 17
SH 90

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	30

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\00491501\14\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION GRIMES COUNTY NO. 17 SH 90.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
18	SH 105	0315-04-081	.8 Mi E of Brazos CL	FM 379	8,260	9,900	644 +0.675	646 +1.095	0+00	107+50	0	10,750

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
18	SH 105	BEG PAVEMENT SEAM 0.8 MI E OF Brazos CL	2-12' LNS WITH 2-10' SHLDRS	0+00	104+07	10,407	44	50,878
		END SEAL 150' WEST OF FM 379	4-12' TRVL LNS AND 1-14' CLTL	104+07	107+50	343	62	2,364
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				0
CSJ 0315-04-081							PROJECT TOTAL	53,242

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662 6109 WK ZN PAV MRK SHT TRM (TAB) TY W EA	ITEM 662 6111 WK ZN PAV MRK SHT TRM (TAB) TY Y-2 EA	ITEM 666 6030 REFL PAV MRK TY I (W) (8") (DOT) (100MIL) LF	6036 (8") (SLD) (100MIL) LF	6042 (12") (SLD) (100MIL) LF	6045 (18") (SLD) 6056 LF	6048 (24") (SLD) 666342 LF	6224 (36") (YLD TRI) (100MIL) EA	6167 REFL PAV MRK TY II (W) (4") (BRK) LF	6170 (4") (SLD) LF	6205 REFL PAV MRK TY II (Y) (4") (BRK) LF	6207 (4") (SLD) LF	ITEM 677 6001 ELIM EXT PAV MRK & MRKS (4") LF	ITEM 668 6056 PREFAB PAV MRK TY B (ACC PRK) (BL&WH) EA	6077 TY C (W) (ARROW) EA	6078 (W) (DBL ARROW) EA	6085 (W) (WORD) EA	6089 (W) (RRXING) EA	ITEM 672 6007 REFL PAV MRKR TY I-C EA	6009 TY II-A-A EA	6010 TY II-C-R EA	ITEM 6056 6001 PREFORMED IN-LANE (TRANS) RUMBLE STRIP LF
18	SH 105	0315-04-081	229	2,907	0	1,461	0	0	824	0	1,096	21,086	5,624	24,338	0	0	11	3	5	7	129	423	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH (FT)	WIDTH (FT)	RADIUS LT (FT)	RADIUS RT (FT)	ITEM 530 6003 INTERSECTIONS (SURF TRT) (SY)	6006 PUBLIC DRIVEWAYS (SURF TRT) (SY)	*INFO PRIVATE DRIVEWAYS (SURF TRT) (SY)	6009 TURNOUTS (SURF TRT) (SY)	INTERSECTIONS (EA)	PUBLIC DRIVEWAYS (EA)	PRIVATE DRIVEWAYS (EA)	TURNOUTS (EA)
18	SH 105	3+91	RT	COUNTY RD 123	20	40	40	40		158				1		
		49+16	RT	FAIRWAY DR.	37	24	50	30		179				1		
		76+51	RT	VETERENS MEMORIAL DR	18	24	20	20		68				1		
		85+48	LT	SAULS ST	24	15	20	20		60				1		
		88+81	RT	CATHERINE ST	15	20	20	25		57				1		
		100+74	RT	CLAYTON	20	14	20	25		56				1		
		103+86	LT	N. PEEPLES ST	20	16	15	15		47				1		
		103+86	RT	S. PEEPLES ST	15	20	20	25		57				1		
		112+89	LT	2ND ST	15	14	10	10		29				1		
		116+11	LT	3RD ST	15	30	20	20		69				1		
		116+11	RT	3RD ST	15	24	20	20		59				1		
		119+54	LT	4TH ST	15	25	20	20		61				1		
		119+54	RT	4TH ST	15	26	20	20		63				1		
		INTERSECTIONS (LISTED ABOVE)							0				0			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								963				13		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									0				0	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									0				0	
		TURNOUTS (TY I @ 28 SY/EA)										0				0
		TURNOUTS (TY II @ 31 SY/EA)										0				0
CSJ 0315-04-081									0	963	0	0	0	13	0	0

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
5/24/2021	

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Bryan District

PROJECT SUMMARY
GRIMES COUNTY
LOCATION NO. 18
SH 105

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	31

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION GRIMES COUNTY NO. 18 SH 105.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
19	SS 515	0338-01-061	BS 6	SH 6	4,574	5,489	636 -0.042	637 +0.063	0+00	36+96	0	3,696

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
19	SS 515	BEG PAVEMENT SEAM 200' E OF BS6S	2-11' TRVL LNS AND 1-16' CLTL WITH 2-2' SHLDRS	0+00	36+96	3,696	42	17,248
		END SEAL 470' W OF SH6 W FRTG RD						
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				182
CSJ 0338-01-061							PROJECT TOTAL	17,430

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
19	SS 515	0338-01-061	420	1,017	0	4,086	0	0	168	0	145	212	1,866	9,110	0	0	17	0	3	0	213	115	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS LT	RADIUS RT	ITEM 530 6003 INTERSECTIONS (SURF TRT)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT)	ITEM 530 6009 TURNOUTS (SURF TRT)	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
19	SS 515	1+00	RT	NOLAN ST	10	25	25	20		49				1		
		1+21	LT	NOLAN ST	10	16	20	20		35				1		
		4+17	RT	CULLEN ST	10	12	20	20		31				1		
		4+17	LT	CULLEN ST	10	16	15	15		29				1		
		8+66	RT	TEXAS ST	12	25	25	25		60				1		
		13+68	RT	CARVER ST	12	24	25	25		59				1		
		18+74	RT	SANFORD ST	18	18	25	25		66				1		
		21+86	LT	MONTGOMERY RD	28	28	15	40		130				1		
		21+86	RT	COURTNEY RD	32	28	35	15		135				1		
				INTERSECTIONS (LISTED ABOVE)					0				0			
				PUBLIC DRIVEWAYS (LISTED ABOVE)						594				9		
				*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)							162				18	
				*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)							20				5	
				TURNOUTS (TY I @ 28 SY/EA)								504				18
				TURNOUTS (TY II @ 31 SY/EA)								62				2
CSJ 0338-01-061									0	594	182	566	0	9	23	20

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
GRIMES COUNTY
LOCATION NO. 19
SS 515

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	32

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\00491501\14\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION GRIMES COUNTY NO. 19 SS 515.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS		ADT		REFERENCE MARKERS **		STATION		SKIPPED LOCATIONS	NET LENGTH (FT)
			FROM	TO	2018	2038	BEGIN	END	FROM	TO		
20	SH 105	0338-01-062	SH 6	Montgomery County Line	10,847	15,610	650 -0.132	666 +1.132	0+00	886+78	CONC BRIDGE AND HMA	88,678

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
20	SH 105	BEG PAVEMENT SEAM 500' SH6 E FRTG RD	TRANSITION	0+00	6+23	623	61	4,223
		SEAL FULL WIDTH	3-12' TRVL LNS W/ 1-6' SHLDR AND 1-3'SHLDR	6+23	27+77	2,154	45	10,771
		SEAL FULL WIDTH	TRANSITION	27+77	42+72	1,494	51	8,467
		SEAL FULL WIDTH	2-11' TRVL LNS AND 1-14' LTL WITH 2-10' SHLDRS	42+72	49+26	655	56	4,074
		SEAL FULL WIDTH	TRANSITION	49+26	54+17	491	53	2,892
		SEAL FULL WIDTH	2-11' TRVL LNS WITH 2-10' SHLDRS	54+17	104+44	5,027	42	23,457
		SEAL FULL WIDTH	TRANSITION	104+44	111+62	718	49	3,910
		SEAL FULL WIDTH	2-11' TRVL LNS AND 1-14' LTL WITH 2-10' SHLDRS	111+62	116+95	533	56	3,318
		SEAL FULL WIDTH	TRANSITION	116+95	121+70	475	50	2,640
		SEAL FULL WIDTH	2-11' TRVL LNS WITH 2-10' SHLDRS	121+70	164+89	4,319	42	20,156
		SEAL FULL WIDTH	TRANSITION	164+89	182+58	1,769	50	9,827
		SEAL FULL WIDTH	3-12' TRVL LNS W/ 1-10' SHLDR AND 1-2'SHLDR	182+58	224+14	4,155	48	22,162
		SEAL FULL WIDTH	TRANSITION	224+14	235+44	1,130	46	5,775
		NO SEAL CONCRETE BRIDGE		235+44	237+97	253	-	-
		SEAL FULL WIDTH	2-11' TRVL LNS WITH 2-10' SHLDRS	237+97	243+09	512	42	2,390
		SEAL FULL WIDTH	TRANSITION	243+09	248+05	496	51	2,812
		SEAL FULL WIDTH	2-11' TRVL LNS AND 1-14' LTL WITH 2-9' SHLDRS	248+05	249+80	174	54	1,045
		SEAL FULL WIDTH	TRANSITION	249+80	255+60	581	50	3,227
		SEAL FULL WIDTH	2-11' TRVL LNS WITH 2-10' SHLDRS	255+60	261+78	618	42	2,883
		SEAL FULL WIDTH	TRANSITION	261+78	266+32	454	50	2,523
		SEAL FULL WIDTH	3-12' TRVL LNS W/ 1-10' SHLDR AND 1-2'SHLDR	266+32	331+90	6,558	48	34,975
		SEAL FULL WIDTH	TRANSITION	331+90	365+22	3,332	55	20,360
		SEAL FULL WIDTH	3-12' TRVL LNS W/ 2-10' SHLDR	365+22	366+85	164	56	1,018
		SEAL FULL WIDTH	TRANSITION	366+85	372+19	533	50	2,963
		SEAL FULL WIDTH	2-11' TRVL LNS WITH 2-10' SHLDRS	372+19	376+04	385	42	1,799
		SEAL FULL WIDTH	TRANSITION	376+04	395+47	1,943	49	10,579
		SEAL FULL WIDTH	3-12' TRVL LNS W/ 1-10' SHLDR AND 1-2'SHLDR	395+47	441+99	4,652	48	24,809
		SEAL FULL WIDTH	TRANSITION	441+99	447+90	591	48	3,154
		SEAL FULL WIDTH	2-11' TRVL LNS WITH 2-10' SHLDRS	447+90	452+92	502	42	2,341
		SEAL FULL WIDTH	TRANSITION	452+92	456+61	370	50	2,053
		SEAL FULL WIDTH	3-12' TRVL LNS W/ 2-10' SHLDR	456+61	458+20	158	56	986
		SEAL FULL WIDTH	TRANSITION	458+20	464+06	586	52	3,386
		SEAL FULL WIDTH	2-11' TRVL LNS WITH 2-10' SHLDRS	464+06	506+25	4,219	42	19,687
		SEAL FULL WIDTH	TRANSITION	506+25	515+64	940	47	4,908
		SEAL FULL WIDTH	3-12' TRVL LNS W/ 2-7' SHLDR	515+64	527+26	1,162	50	6,453
		SEAL FULL WIDTH	TRANSITION	527+26	532+86	560	55	3,420
		SEAL FULL WIDTH	2-11' TRVL LNS WITH 2-10' SHLDRS	532+86	560+26	2,740	42	12,788
		SEAL FULL WIDTH	TRANSITION	560+26	569+40	913	54	5,481
		SEAL FULL WIDTH	3-12' TRVL LNS W/ 2-10' SHLDR	569+40	574+89	549	56	3,417
		SEAL FULL WIDTH	TRANSITION	574+89	585+50	1,061	44	5,188
		SEAL FULL WIDTH	3-12' TRVL LNS W/ 1-10' SHLDR AND 1-2'SHLDR	585+50	618+92	3,342	48	17,825
		SEAL FULL WIDTH	TRANSITION	618+92	636+72	1,779	56	11,072
		NO SEAL HMA		636+72	729+17	9,245	-	-
		SEAL FULL WIDTH	3-12' TRVL LNS W/ 2-10' SHLDR	729+17	773+20	4,404	56	27,400
		SEAL FULL WIDTH	TRANSITION	773+20	791+31	1,811	50	10,061
		SEAL FULL WIDTH	3-12' TRVL LNS W/ 1-10' SHLDR AND 1-2'SHLDR	791+31	862+91	7,160	48	38,185
		SEAL FULL WIDTH	TRANSITION	862+91	867+08	417	49	2,271
		END SEAL AT MONTGOMERY CL	3-12' TRVL LNS W/ 2-10' SHLDR	867+08	886+78	1,969	56	12,254
						0		0
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				138
CSJ 0338-01-062							PROJECT TOTAL	425,523

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
20	SH 105	0338-01-062	630	9,775	0	4,106	0	0	156	0	5,358	163,113	4,106	149,547	0	0	15	0	15	4	474	2,027	0	0

PRINT DATE 5/24/2021 | REVISION DATE

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
GRIMES COUNTY
LOCATION NO. 20
SH 105

SHEET 01 OF 02 SHEETS

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	33

REV DATE: 2-12-2015
CSJs: 0049-15-014
FILENAME= G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION GRIMES COUNTY NO. 20 SH 105.dgn

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS		ITEM 530				INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
									6003	6006	*INFO	6009				
							LT	RT	INTERSECTIONS (SURF TRT)	PUBLIC DRIVEWAYS (SURF TRT)	PRIVATE DRIVEWAYS (SURF TRT)	TURNOUTS (SURF TRT)				
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
20	SH 105	3+17	RT	COUNTY RD 425	16	18	20	25		56				1		
		10+03	LT	COUNTY RD	20	20	25	20		69				1		
		49+10	LT	COUNTY RD 446	45	22	20	20		130				1		
		76+98	RT	COUNTY RD 415	45	20	50	30		182				1		
		116+79	LT	COUNTY RD 410	80	20	35	35		237				1		
		132+53	LT	COUNTY RD 407	70	18	20	20		160				1		
		145+04	RT	COUNTY RD 417	45	20	35	35		159				1		
		186+17	RT	COUNTY RD 417	55	20	35	45		200				1		
		196+63	LT	COUNTY RD 334A	30	16	15	20		69				1		
		196+63	RT	COUNTY RD 334	55	22	35	30		186				1		
		248+27	RT	FM 362	100	28	70	40	467				1			
		251+28	LT	COUNTY RD 412	40	22	35	40		166				1		
		365+38	RT	FM 1748	200	28	55	40	733				1			
		455+72	RT	COUNTY RD 308	35	18	50	25		144				1		
		457+62	LT	FM 2445	200	24	60	60	706				1			
		525+41	LT	COUNTY RD 309	45	25	30	90		321				1		
		525+41	RT	SS 234	200	30	150	35	1233				1			
		576+21	LT	COUNTY RD 311	30	20	25	55		149				1		
		793+69	LT	COUNTY RD 204	35	22	35	30						1		
		793+69	RT	COUNTY RD 204	35	15	30	35		110				1		
		INTERSECTIONS (LISTED ABOVE)							3139				4			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								2,338				16		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									126				14	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									12				3	
		TURNOUTS (TY I @ 28 SY/EA)										280				10
		TURNOUTS (TY II @ 31 SY/EA)										0				0
CSJ 0338-01-062									3139	2,338	138	280	4	16	17	10

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

REV DATE: 2-12-2015
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Texas Department of Transportation
Bryan District

PROJECT SUMMARY
GRIMES COUNTY
LOCATION NO. 20
SH 105

SHEET 02 OF 02 SHEETS

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	34

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
21	FM 149	0720-01-043	SH 90	Montgomery County Line	1,593	1,820	428 -1.44	438 +0.405	0+00	621+91	CONC BRIDGE AND RRX	62,191

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
21	FM 149	BEG. AT EDGELINE OF SH 90	TRANSITION	0+00	1+45	145	34	548
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-1' SHLDR	1+45	54+15	5,270	24	14,053
		SEAL FULL WIDTH	TRANSITION	54+15	57+95	380	31	1,309
		CONC. BRIDGE	NO SEAL	57+95	58+84	89	-	-
		SEAL FULL WIDTH	TRANSITION	58+84	61+51	267	29	860
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-1' SHLDR	61+51	286+75	22,524	24	60,064
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-3' SHLDR	286+75	313+14	2,639	28	8,210
		CONC. BRIDGE	NO SEAL	313+14	316+28	314	-	-
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-3' SHLDR	316+28	544+71	22,843	28	71,067
		SEAL FULL WIDTH	TRANSITION	544+71	547+77	306	33.5	1,139
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-9' SHLDR	547+77	553+49	572	40	2,542
		SEAL FULL WIDTH	TRANSITION	553+49	555+11	162	31	558
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-3' SHLDR	555+11	569+79	1,468	28	4,567
		CONC. RRX	NO SEAL	569+79	569+91	12	-	-
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-3' SHLDR	569+91	573+77	386	28	1,201
		SEAL FULL WIDTH	TRANSITION	573+77	576+81	304	33.5	1,132
		CONC. BRIDGE	NO SEAL	576+81	578+64	183		0
		SEAL FULL WIDTH	TRANSITION	578+64	582+99	435	33.5	1,619
		CONC. BRIDGE	NO SEAL	582+99	584+80	181	-	-
		SEAL FULL WIDTH	TRANSITION	584+80	589+08	428	31.5	1,498
		SEAL FULL WIDTH/END AT MONTGOMERY CL	2-11' TRVL LN WITH 2-3' SHLDR	589+08	621+91	3,283	28	10,214
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				673
CSJ 0720-01-043							PROJECT TOTAL	181,254

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK					REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	TY B (ACC PRK) (BL&WH)	TY C (W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)		TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA		EA	EA	EA	LF
21	FM 149	0720-01-043	0	6,719	0	0	0	0	252	0	0	122,871	7,765	87,682	218,318	0	0	0	0	2		0	1,511	0	0

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\00491501\14\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION GRIMES COUNTY NO. 21 FM 149.dgn

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
GRIMES COUNTY
LOCATION NO. 21
FM 149

SHEET 01 OF 02 SHEETS

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY	
TEXAS	BRY	ROBERTSON, ETC.	
CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	35

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS		ITEM 530				INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
									6003	6006	*INFO	6009				
							LT	RT	INTERSECTIONS (SURF TRT)	PUBLIC DRIVEWAYS (SURF TRT)	PRIVATE DRIVEWAYS (SURF TRT)	TURNOUTS (SURF TRT)				
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
21	FM 149	0+98	RT	SL 429	200	26	20	20	597				1			
		10+40	RT	CEDAR LN	42	24	45	40		199				1		
		70+88	LT	CO RD 277	20	28	25	25		92				1		
		92+01	RT	CO RD 221	40	18	50	20		149				1		
		129+89	RT	CO RD 222 S	15	24	15	25		60				1		
		130+59	LT	CO RD 222 N	30	22	20	45		130				1		
		238+07	LT	CO RD 220	30	22	20	25		98				1		
		274+21	LT	FM 2562 N	200	30	55	55		811				1		
		274+21	RT	FM 2562 S	200	30	35	45		745				1		
		376+99	LT	CO RD 217	30	22	20	20		93				1		
		436+19	LT	CO RD 250	35	20	25	25		108				1		
		502+70	LT	FM 1486	200	30	60	45		801				1		
		518+92	LT	LYNN ST	45	32	25	50		235				1		
		524+51	LT	MULBERRY	20	18	15	15		51				1		
		528+09	LT	PINE	30	16	15	15		65				1		
		532+22	RT	PEARL RD	35	16	15			68				1		
		540+06	LT	GUADALUPE ST	30	24	15	20		95				1		
		540+06	RT	FM 1486	200	34	40	40	832				1			
		543+70	LT	N COLORADO	25	14	15	15		50				1		
		543+70	RT	S COLORADO	20	25	15	15		67				1		
		547+38	LT	N TRINITY ST	25	30	15	20		99				1		
		547+38	RT	S TRINITY ST	32	26	25	15		113				1		
		550+98	LT	N BRAZOS	30	22	20	20		93				1		
		550+98	RT	S BRAZOS	20	24	20	20		73				1		
		554+30	RT	SABINE	50	30	40			205				1		
		557+83	LT	PANTHER ST	20	18	15	15		51				1		
		561+51	LT	MULBERRY	20	16	15	15		47				1		
		569+20	LT	LYNN ST	25	22	15	40		104				1		
		598+83	LT	CO RD 216	25	22	15	20		77				1		
		INTERSECTIONS (LISTED ABOVE)							1429				2			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								4,779				27		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									621				69	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									52				13	
		TURNOUTS (TY I @ 28 SY/EA)										1,148				41
		TURNOUTS (TY II @ 31 SY/EA)										496				16
CSJ 0720-01-043									1429	4,779	673	1,644	2	27	82	57

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION GRIMES COUNTY NO. 21 FM 149.dgn

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
GRIMES COUNTY
LOCATION NO. 21
FM 149

SHEET 02 OF 02 SHEETS

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY	
TEXAS	BRY	ROBERTSON, ETC.	
CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	36

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
22	FM 1774	1400-02-028	SH 105	Conc Bridge 0.2 MI N of SH 249	5,908	6,950	436 +0.821	440 +0.373	0+00	182+64	RRX	18,264

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
22	FM 1774	BEG 600' S OF SH 150	2-11' TRVL LNS WITH 2-3' SHLDRS	0+00	1+90	190	28	591
		NO SEAL RRX		1+90	2+01	11	-	-
		END SEAL AT CONC BRIDGE	2-11' TRVL LNS WITH 2-3' SHLDRS	2+01	182+64	18,063	28	56,196
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				445
CSJ 1400-02-028							PROJECT TOTAL	57,232

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
22	FM 1774	1400-02-028	0	1,800	0	0	0	0	206	0	0	36,082	2,377	21,696	60,155	0	0	0	0	2	0	398	1,156	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH (FT)	WIDTH (FT)	RADIUS LT (FT)	RADIUS RT (FT)	ITEM 530 6003 INTERSECTIONS (SURF TRT) (SY)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT) (SY)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT) (SY)	ITEM 530 6009 TURNOUTS (SURF TRT) (SY)	INTERSECTIONS (EA)	PUBLIC DRIVEWAYS (EA)	PRIVATE DRIVEWAYS (EA)	TURNOUTS (EA)
22	FM 1774	18+00	RT	COUNTY RD 202	45	25	25	65		239				1		
		26+24	RT	COUNTY RD 201	40	22	25	35		142				1		
		32+47	RT	LEGGE RD	55	22	10	140		518				1		
		50+37	LT	COUNTY RD 203	55	28	110	20		441				1		
		149+16	LT	COUNTY RD 351	40	20	30	40		149				1		
		INTERSECTIONS (LISTED ABOVE)							0				0			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								1,489				5		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									333				37	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									112				28	
		TURNOUTS (TY I @ 28 SY/EA)										1,260				45
		TURNOUTS (TY II @ 31 SY/EA)										155				5
CSJ 1400-02-028									0	1,489	445	1,415	0	5	65	50

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
5/24/2021	

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Bryan District

PROJECT SUMMARY GRIMES COUNTY LOCATION NO. 22 FM 1774

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	37

REV DATE: 2-12-2015
CSJ: 0049-15-014

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PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
23	FM 1696	1809-01-019	SH 90	Walker County Line	1,454	2,710	652 -0.883	658 +0.001	0+00	336+91	0	33,691

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
23	FM 1696	BEG 200' E OF SH 90	2-11' TRVL LNS WITH 2-14' SHLDRS	0+00	1+50	150	50	833
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-2' SHLDR	1+50	8+55	705	26	2,037
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-1' SHLDR	8+55	48+87	4,032	24	10,752
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-2' SHLDR	48+87	56+97	810	26	2,340
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-1' SHLDR	56+97	137+21	8,024	24	21,397
		SEAL FULL WIDTH	TRANSITION	137+21	144+93	772	31.5	2,702
		SEAL FULL WIDTH/END AT WALKER CL	2-11' TRVL LN WITH 2-1' SHLDR	144+93	336+91	19,198	24	51,195
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				445
CSJ 1809-01-019							PROJECT TOTAL	91,701

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662 6109 WK ZN PAV MRK SHT TRM (TAB) TY W EA	ITEM 662 6111 WK ZN PAV MRK SHT TRM (TAB) TY Y-2 EA	ITEM 666 6030 REFL PAV MRK TY I (W) (8") (DOT) (100MIL) LF	6036 (8") (SLD) (100MIL) LF	6042 (12") (SLD) (100MIL) LF	6045 (18") (SLD) (100MIL) LF	6048 (24") (SLD) (100MIL) LF	6102 (36") (YLD TRI) (100MIL) EA	6167 REFL PAV MRK TY II (W) (4") (BRK) LF	6170 (4") (SLD) LF	6205 REFL PAV MRK TY II (Y) (4") (BRK) LF	6207 (4") (SLD) LF	ITEM 677 6001 ELIM EXT PAV MRK & MRKS (4") LF	ITEM 668 6056 PREFAB PAV MRK TY B (ACC PRK) (BL&WH) EA	6077 TY C (W) (ARROW) EA	6078 (W) (DBL ARROW) EA	6085 (W) (WORD) EA	6089 (W) (RRXING) EA	ITEM 672 6007 REFL PAV MRKR TY I-C EA	6009 TY II-A-A EA	6010 TY II-C-R EA	ITEM 6056 6001 PREFORMED IN-LANE (TRANS) RUMBLE STRIP LF
23	FM 1696	1809-01-019	0	3,304	0	0	0	0	152	0	0	66,844	3,306	46,225	0	0	0	0	0	0	0	773	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH (FT)	WIDTH (FT)	RADIUS LT (FT)	RADIUS RT (FT)	ITEM 530 6003 INTERSECTIONS (SURF TRT) (SY)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT) (SY)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT) (SY)	ITEM 530 6009 TURNOUTS (SURF TRT) (SY)	INTERSECTIONS (EA)	PUBLIC DRIVEWAYS (EA)	PRIVATE DRIVEWAYS (EA)	TURNOUTS (EA)
23	FM 1696	2+95	LT	N WEST ST	20	22	15	15		60				1		
		2+95	RT	S WEST ST	20	25	20	20		75				1		
		4+00	LT	GIN TANK ST	20	22	20	20		68				1		
		5+54	RT	EAST ST	20	22	20	20		68				1		
		9+07	LT	LEON ST	20	18	15	25		61				1		
		9+28	RT	FM 2620	200	49		40	1128				1			
		12+05	LT	PLUM ST	20	18	20	15		55				1		
		39+73	LT	CO RD 141	40	20	20	20		108				1		
		50+43	LT	CO RD 140	25	22	20	20		81				1		
		83+85	RT	BRACEWELL RD	40	22	35	24		141				1		
		113+00	RT	HARRISON DR	35	24	35	40		161				1		
		133+77	LT	CO RD 139	35	18	20	20		90				1		
		153+63	LT	N CO RD 137	20	26	30	30		100				1		
		153+63	RT	S CO RD 137	30	18	15	20		75				1		
		210+78	LT	CO RD 137 E	40	22	30	30		141				1		
		254+00	LT	CO RD 134	25	32	40	40		162				1		
		323+52	LT	CO RD 133	25	20	20	30		87				1		
		INTERSECTIONS (LISTED ABOVE)							1128				1			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								1,533				16		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									333				37	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									112				28	
		TURNOUTS (TY I @ 28 SY/EA)										1,288				46
		TURNOUTS (TY II @ 31 SY/EA)										155				5
CSJ 1809-01-019									1128	1,533	445	1,443	1	16	65	51

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
GRIMES COUNTY
LOCATION NO. 23
FM 1696

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	38

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION GRIMES COUNTY NO. 23 FM 1696.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
24	SH 75	0166-04-050	FREESTONE CL	FM 7	4,061	5,690	358 +0.56	376 +1.568	0+00	921+10	INTERX	92,110

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
24	SH 75	BEG SEAL FREESTONE CL	11' LANES W/1' SHLDRS	0+00	59+40	5,940	24	15,840
		SEAL FULL WIDTH	TRANSITION	59+40	66+21	681	32	2,421
		SEAL FULL WIDTH	12' LANES W/4' SHLDRS	66+21	92+56	2,635	58	16,981
		NO SEAL	INTERSECTION OF US 79	92+56	105+49	1,293	-	-
		SEAL FULL WIDTH	11' LANES W/2' SHLDRS	105+49	184+69	7,920	26	22,880
		SEAL FULL WIDTH	TRANSITION	184+69	188+91	422	38	1,782
		SEAL FULL WIDTH	11' LANES W/1' SHLDRS	188+91	389+19	20,028	24	53,408
		SEAL FULL WIDTH	TRANSITION	389+19	413+00	2,381	32	8,466
		SEAL FULL WIDTH	11' LANES W/1' SHLDRS	413+00	752+90	33,990	24	90,640
		SEAL FULL WIDTH	12' LANES W/2' SHLDRS	752+90	845+22	9,232	28	28,722
		SEAL FULL WIDTH	TRANSITION	845+22	853+25	803	40	3,569
		SEAL FULL WIDTH	12' LANES W/2' SHLDRS	853+25	916+03	6,278	28	19,532
		STOP 200' FROM SH 7	12' LANE W/16' SHLDR (DIA PRKG) (RT) 2-12' LANES W/6' SHLDR (LT)	916+03	919+20	317	58	2,043
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				322
CSJ 0166-04-050							PROJECT TOTAL	266,283

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662 6109 WK ZN PAV MRK SHT TRM (TAB) TY W EA	ITEM 662 6111 WK ZN PAV MRK SHT TRM (TAB) TY Y-2 EA	ITEM 666 6030 REFL PAV MRK TY I (W) (8") (DOT) (100MIL) LF	6036 (8") (SLD) (100MIL) LF	6042 (12") (SLD) (100MIL) LF	6045 (18") (SLD) (100MIL) LF	6048 (24") (SLD) (100MIL) LF	6224 (36") (YLD TRI) (100MIL) EA	6167 REFL PAV MRK TY II (W) (4") (BRK) LF	6170 (4") (SLD) LF	6205 REFL PAV MRK TY II (Y) (4") (BRK) LF	6207 (4") (SLD) LF	ITEM 677 6001 ELIM EXT PAV MRK & MRKS (4") LF	ITEM 668 6056 PREFAB PAV MRK TY B (ACC PRK) (BL&WH) EA	6077 TY C (W) (ARROW) EA	6078 (W) (DBL ARROW) EA	6085 (W) (WORD) EA	6089 (W) (RRXING) EA	ITEM 672 6007 REFL PAV MRKR TY I-C EA	6009 TY II-A-A EA	6010 TY II-C-R EA	ITEM 6056 6001 PREFORMED IN-LANE (TRANS) RUMBLE STRIP LF
24	SH 75	0166-04-050	50	10,166	0	0	0	0	251	0	671	186,413	13,879	120,043	186,413	0	0	0	0	0	34	2,195	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH (FT)	WIDTH (FT)	RADIUS LT (FT)	RADIUS RT (FT)	ITEM 530 6003 INTERSECTIONS (SURF TRT) (SY)	6006 PUBLIC DRIVEWAYS (SURF TRT) (SY)	*INFO PRIVATE DRIVEWAYS (SURF TRT) (SY)	6009 TURNOUTS (SURF TRT) (SY)	INTERSECTIONS (EA)	PUBLIC DRIVEWAYS (EA)	PRIVATE DRIVEWAYS (EA)	TURNOUTS (EA)
24	SH 75	73+55	RT	FM 164	150	24	15	18	414				1			
		76+93	LT	FM 164	200	45	38	0	1035				1			
		83+58	RT	DAVIS ST	200	36	18	18		816				1		
		83+58	LT	LEGALLEY ST	18	25	20	20		70				1		
		187+49	LT	FM 2539	200	40	65	80	1143				1			
		326+15	LT	FM 831	200	25	40	4	595				1			
		327+62	RT	FM 831	137	30	9	28	478				1			
		533+97	LT	FM 1618	200	30	40	40	743				1			
		898+87	RT	E. BROWN ST	28	18	20	20		76				1		
		904+31	RT	W. CARRINGTON ST	34	22	21	21		105				1		
		907+74	LT	E. CARRINGTON ST	30	18	20	20		80				1		
		918+03	LT	MAIN ST	30	68	20	20		246				1		
		INTERSECTIONS (LISTED ABOVE)							4408				6			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								1,393				6		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									162				18	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									160				40	
		TURNOUTS (TY I @ 28 SY/EA)										196				7
		TURNOUTS (TY II @ 31 SY/EA)										0				0
CSJ 0166-04-050									4408	1,393	322	196	6	6	58	7

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District
©2021

PROJECT SUMMARY
LEON COUNTY
LOCATION NO. 24
SH 75

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	39

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\004915\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION LEON COUNTY NO. 24 SH 75.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2017	ADT 2037	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
25	FS 3	3281-01-008	FM0003	SH OSR	659	791	384 -0.017	385 +0.035	0+00	17+86	0	1,786

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
25	FS 3	BEG SEAL 200' S OF FM 3	2-11' TRVL LNS W/2-1' SHLDRS	0+00	17+86	1,786	24	4,763
		END SEAL 200 ' N OF OSR						
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				41
CSJ 3281-01-008							PROJECT TOTAL	4,804

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6102	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK		REFL PAV MRK TY I						REFL PAV MRK TY II		REFL PAV MRK TY II		ELIM EXT PAV	PREFAB PAV MRK					REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			SHT TRM (TAB)		(W)						(W)		(Y)		MRK & MRKS	TY B	TY C							
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)		TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA		EA	EA	EA	LF
25	FS 3	3281-01-008	0	178	0	0	0	0	146	0	0	3286	0	3286	0	0	0	0	0	0		0	44	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH (FT)	WIDTH (FT)	RADIUS LT (FT)	RADIUS RT (FT)	ITEM 530 6003 INTERSECTIONS (SY)	ITEM 530 6006 PUBLIC (SY)	ITEM 530 *INFO PRIVATE (SY)	ITEM 530 6009 TURNOUTS (SY)	INTERSECTIONS (EA)	PUBLIC DRIVEWAYS (EA)	PRIVATE DRIVEWAYS (EA)	TURNOUTS (EA)
25	FS 3	1+32	LT	HOLLIS ST	20	16	20	20		55				1		
		4+96	LT	WOOLEY ST	20	20	20	20						1		
		9+08	LT	PHILLIP ST	20	16	15	30						1		
		9+08	RT	PHILLIP ST	20	16	25	20		60				1		
		11+88	LT	S 6TH ST	20	16	10	35		66				1		
		INTERSECTIONS (LISTED ABOVE)							0							
		PUBLIC DRIVEWAYS (LISTED ABOVE)								181				5		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									9				1	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									32				8	
		TURNOUTS (TY I @ 28 SY/EA)										0				
		TURNOUTS (TY II @ 31 SY/EA)										0				
CSJ 3281-01-008									0	181	41	0	0	5	9	0

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

REV DATE: 2-12-2015
CSJ: 0049-15-014
FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION LEON COUNTY NO. 25 FS 3.dgn

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
LEON COUNTY
LOCATION NO. 25
FS 3

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	40

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
26	FM 3	0552-01-032	FM 977	FM 39	3,092	4,330	378 +1.201	393 +0.029	0+00	742+10	0	74,210

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
26	FM 3	BEG SEAL FM 977	11' LANES W/1' SHLDRS	0+00	363+48	36,348	24	96,928
		SEAL FULL WIDTH	11' LANES W/2-3' SHLDRS	363+48	742+10	37,862	27	113,586
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				258
CSJ 0552-01-032							PROJECT TOTAL	210,772

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) 6056	(24") (SLD) 666342	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF		EA	EA	EA	EA	EA	EA	EA	LF
26	FM 3	0552-01-032	0	8,064	0	0	0	0	372	0	0	14,873	8,248	111,751	0	0	0	0	0	0	0	1,809	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS LT	RADIUS RT	ITEM 530 6003 INTERSECTIONS (SURF TRT)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT)	ITEM 530 6009 TURNOUTS (SURF TRT)	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
26	FM 3	47+20	RT	CR 467	6	20	18	18		25				1		
		146+86	RT	CR 468	10	20	20	20		40				1		
		150+32	LT	CR 470	10	20	20	20		40				1		
		187+60	RT	CR 468	10	20	20	20		40				1		
		215+79	RT	CR 469	10	20	20	20		40				1		
		267+11	LT	RANCHVIEW DR	30	20	25	25		97				1		
		287+60	LT	HILLTOP BLVD	28	24	35	35		133				1		
		357+67	LT	RANCH ROAD DR	30	22	30	30		117				1		
		399+06	RT	CR 482	42	22	38	38		172				1		
		446+21	LT	NORMANGEE LAKE RD	10	22	38	38		70				1		
		479+11	LT	CR 4821	38	22	30	30		136				1		
		526+57	RT	CR 456	55	18	20	20		130				1		
		526+57	LT	CR 499	55	20	20	20		142				1		
		536+39	RT	CR 466	36	20	20	20		100				1		
		567+97	LT	CR 465	40	24	20	20		126				1		
		656+94	RT	CR 464	40	20	22	20		110				1		
		686+29	LT	CR 459	48	24	18	50		196				1		
		716+44	RT	E. CHURCH ST	50	24	20	50		203				1		
		716+44	LT	9TH ST	40	18	10	50		142				1		
		717+13	RT	TAFT ST	44	20	30	30		141				1		
		718+03	LT	8TH ST	20	20	20	20		64				1		
		721+62	RT	FS 3	200	24	25	25	564						1		
		721+62	LT	7TH ST	24	24	25	35		108				1		
		725+21	RT	6TH ST	24	18	20	25		73				1		
		725+21	LT	6TH ST	24	20	25	30		90				1		
		732+44	RT	4TH ST	18	20	25	25		70				1		
		732+44	LT	4TH ST	18	20	25	25		70				1		
		736+06	RT	3RD ST	18	20	25	25		70				1		
		736+06	LT	3RD ST	18	20	25	25		70				1		
		739+57	RT	2ND ST	18	20	25	25		70				1		
		739+57	LT	2ND ST	18	20	25	25		70				1		
		INTERSECTIONS (LISTED ABOVE)							564				1			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								2,955				30		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									90				10	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									168				42	
		TURNOUTS (TY I @ 28 SY/EA)										280				10
		TURNOUTS (TY II @ 31 SY/EA)										341				11
CSJ 0552-01-032									564	2,955	258	621	1	30	52	21

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
7/28/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
LEON COUNTY
LOCATION NO. 26
FM 3

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY	
TEXAS	BRY	ROBERTSON, ETC.	
CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	41

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\00491501414\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION LEON COUNTY NO. 26 FM 3.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
27	FM 39	0643-01-065	LIMESTONE CL	US 79	2,306	3,230	368+00	374+00	0+00	381+33	CONC BRIDGE	38,133

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
27	FM 39	BEG SEAL FREESTONE CL	2-12' Lanes + 16' TRN w/10' SHLDRS	0+00	19+75	1,975	60	13,167
		NO SEAL	CONCRETE BRIDGE	19+75	22+23	248	-	-
		SEAL FULL WIDTH	2-12' LANES W/ 10' SHLDRS	22+23	224+61	20,238	44	98,941
		SEAL FULL WIDTH	2-12' LANES W/ 2' SHLDRS	224+61	370+76	14,615	28	45,469
		END SEAL AT CONCRETE BRIDGE	2-12' LANES W/ 6' SHLDRS	370+76	386+44	1,568	36	6,272
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				57
CSJ 0643-01-065							PROJECT TOTAL	163,906

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH)	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
27	FM 39	0643-01-065	0	3,774	0	0	0	0	257	4	0	77,090	8,265	25,278	0	0	1	2	1	0	0	716	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS LT	RADIUS RT	ITEM 530 6003 INTERSECTIONS (SURF TRT)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT)	ITEM 530 6009 TURNOUTS (SURF TRT)	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
27	FM 39	167+12	LT	CR 351	55	22	3	25		150				1		
		206+07	LT	CR 351	15	24	16	16		53				1		
		282+32	RT	FM 3501	200	32	32	32	760				1			
		337+87	LT	CR 3441	48	30	30	30		203				1		
		337+87	RT	CR 344	40	18	25	35		125				1		
		374+66	LT	BROADWAY RD	40	20	25	25		119				1		
		384+33	LT	US 79 CONNECTOR	390	28	125	35	1616				1			
		384+33	RT	US 79 CONNECTOR	406	28	125	25	1651				1			
		INTERSECTIONS (LISTED ABOVE)							4027				3			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								650				5		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									9				1	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									48				12	
		TURNOUTS (TY I @ 28 SY/EA)										28				1
		TURNOUTS (TY II @ 31 SY/EA)										0				0
CSJ 0643-01-065									4027	650	57	28	3	5	13	1

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
LEON COUNTY
LOCATION NO. 27
FM 39

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	42

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\004915\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION LEON COUNTY NO. 27 FM 39.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
28	FM 39	0643-01-066	SH 7	FM 977	1,955	2,740	380+00	388+00	0+00	389+56	CONC BRIDGE	38,956

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
28	FM 39	BEG SEAL 200' S OF SH 7	12' LANES W/ 1' SHLDRS	0+00	39+85	3,985	26	11,512
		BRIDGE		39+85	41+21	136	-	-
		END SEAL 200' S OF FM 977	12' LANES W/ 1' SHLDRS	41+21	390+37	34,916	26	100,868
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				76
CSJ 0643-01-066							PROJECT TOTAL	112,456

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
28	FM 39	0643-01-066	0	3,121	0	0	0	0	132	0	0	78,616	8,756	9,882	0	0	0	0	0	1	0	562	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS LT	RADIUS RT	ITEM 530 6003 INTERSECTIONS (SURF TRT)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT)	ITEM 530 6009 TURNOUTS (SURF TRT)	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
28	FM 39	36+80	LT	CR 494	25	14	14	14		49				1		
		61+04	RT	CR 492	20	16	18	18		52				1		
		103+86	LT	CR 497	30	35	28	26		152				1		
		117+37	RT	CR 495	34	30	16	24		134				1		
		204+18	LT	CR 417	28	30	29	25		129				1		
		249+53	RT	CR 436	40	28	25	25		155				1		
		295+96	LT	CR 418	30	25	18	30		113				1		
		262+05	RT	CR 437	30	22	25	30		110				1		
		299+43	RT	CR 440	30	22	20	36		114				1		
		320+17	LT	CR 441	30	22	28	38		127				1		
		379+68	RT	CR 427	30	22	45	14		125				1		
		389+03	LT	FM 977	200	24	25	25	564				1			
		389+56	RT	FM 977	200	24	25	25	564				1			
		INTERSECTIONS (LISTED ABOVE)							1128				2			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								1,260				11		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									0				0	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									76				19	
		TURNOUTS (TY I @ 28 SY/EA)										224				8
		TURNOUTS (TY II @ 31 SY/EA)										0				0
CSJ 0643-01-066									1128	1,260	76	224	2	11	19	8

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
LEON COUNTY
LOCATION NO. 28
FM 39

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	43

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION LEON COUNTY NO. 28 FM 39.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
29	FM 831	1145-01-051	FM 1511	FM 542	940	1,700	638+00	640+00	0+00	717+08	CONC BRIDGE	71,708

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
29	FM 831	BEG SEAL FM 1511	2-12' LANES W/ 1' SHLDRS	0+00	176+09	17,609	26	50,870
		NO SEAL	CONCRETE BRIDGE	176+09	179+41	332	-	-
		SEAL FULL WIDTH	TRANSITION	179+41	185+12	571	36	2,284
		NO SEAL	CONCRETE BRIDGE	185+12	186+01	89	-	-
		SEAL FULL WIDTH	TRANSITION	186+01	187+92	191	36	764
		SEAL FULL WIDTH	2-12' LANES W/ 1' SHLDRS	187+92	266+64	7,872	26	22,741
		NO SEAL	CONCRETE BRIDGE	266+64	267+85	121	-	-
		SEAL FULL WIDTH	2-12' LANES W/ 1' SHLDRS	267+85	269+76	191	26	552
		NO SEAL	CONCRETE BRIDGE	269+76	270+97	121	-	-
		SEAL FULL WIDTH	2-12' LANES W/ 1' SHLDRS	270+97	274+93	396	26	1,144
		NO SEAL	CONCRETE BRIDGE	274+93	276+83	190	-	-
		SEAL FULL WIDTH	TRANSITION	276+83	279+63	280	36	1,120
		SEAL FULL WIDTH/ STOP 200' BEFORE FM 542	2-12' LANES W/ 1' SHLDRS	279+63	717+08	43,745	26	126,374
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				177
CSJ 1145-01-051							PROJECT TOTAL	206,027

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662 6109 WK ZN PAV MRK SHT TRM (TAB) TY W EA	ITEM 662 6111 WK ZN PAV MRK SHT TRM (TAB) TY Y-2 EA	ITEM 666 6030 REFL PAV MRK TY I (W) (8") (DOT) (100MIL) LF	6036 (8") (SLD) (100MIL) LF	6042 (12") (SLD) (100MIL) LF	6045 (18") (SLD) (100MIL) LF	6048 (24") (SLD) (100MIL) LF	6224 (36") (YLD TRI) (100MIL) EA	6167 REFL PAV MRK TY II (W) (4") (BRK) LF	6170 (4") (SLD) LF	6205 REFL PAV MRK TY II (Y) (4") (BRK) LF	6207 (4") (SLD) LF	ITEM 677 6001 ELIM EXT PAV MRK & MRKS (4") LF	ITEM 668 6056 PREFAB PAV MRK TY B (ACC PRK) (BL&WH) EA	6077 TY C (W) (ARROW) EA	6078 (W) (DBL ARROW) EA	6085 (W) (WORD) EA	6089 (W) (RRXING) EA	ITEM 672 6007 REFL PAV MRKR TY I-C EA	6009 TY II-A-A EA	6010 TY II-C-R EA	ITEM 6056 6001 PREFORMED IN-LANE (TRANS) RUMBLE STRIP LF
29	FM 831	1145-01-051	0	7,407	0	0	0	0	96	0	0	143,415	5,124	117,374	0	0	0	0	0	0	0	1,721	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH (FT)	WIDTH (FT)	RADIUS LT (FT)	RADIUS RT (FT)	ITEM 530 6003 INTERSECTIONS (SURF TRT) (SY)	6006 PUBLIC DRIVEWAYS (SURF TRT) (SY)	*INFO PRIVATE DRIVEWAYS (SURF TRT) (SY)	6009 TURNOUTS (SURF TRT) (SY)	INTERSECTIONS (EA)	PUBLIC DRIVEWAYS (EA)	PRIVATE DRIVEWAYS (EA)	TURNOUTS (EA)
29	FM 831	1+43	LT	CR 212	20	20	25	33		84				1		
		23+02	LT	CR 267	50	8	26	2		61				1		
		143+83	RT	CR 225	12	28	26	28		68				1		
		257+03	LT	CR 266	12	38	24	26		78				1		
		491+99	RT	CR 236	14	20	40	28		78				1		
		583+44	LT	CR 260	15	30	12	18		62				1		
		691+79	LT	CR 2371	20	30	40	12		105				1		
		INTERSECTIONS (LISTED ABOVE)							0				0			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								536				7		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									45				5	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									132				33	
		TURNOUTS (TY I @ 28 SY/EA)										224				8
		TURNOUTS (TY II @ 31 SY/EA)										155				5
CSJ 1145-01-051									0	536	177	379	0	7	38	13

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District
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PROJECT SUMMARY
LEON COUNTY
LOCATION NO. 29
FM 831

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	44

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\00491501014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION LEON COUNTY NO. 29 FM 831.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
30	FM 977	1147-02-025	FM 2485	SH 75	586	820	387+00	#REF!	0+00	167+01	CONC BRIDGE	16,701

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
30	FM 977	BEG SEAL FM 2485	2-12' LANES W/ 1' SHLDRS	0+00	119+64	11,964	26	34,563
		NO SEAL	CONCRETE BRIDGE	119+64	122+34	270	-	-
		SEAL FULL WIDTH	2-12' LANES W/ 1' SHLDRS	122+34	128+46	612	26	1,768
		SEAL FULL WIDTH	2-12' LANES W/3' SHLDRS	128+46	132+21	375	30	1,250
		STOP 200' FROM SH 75	2-12' LANES W/1' SHLDRS	132+21	167+01	3,480	26	10,053
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				109
CSJ 1147-02-025							PROJECT TOTAL	47,743

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF		EA	EA	EA	EA	EA	EA	EA	LF
30	FM 977	1147-02-025	0	1,791	0	0	0	0	24	0	0	35,209	514	32,751	0	0	0	0	0	0	0	443	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS LT	RADIUS RT	ITEM 530 6003 INTERSECTIONS (SURF TRT)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT)	ITEM 530 6009 TURNOUTS (SURF TRT)	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
30	FM 977	0+00	RT	FM 2485	200	24	38	40	606				1			
		3+01	LT	FM 2485	200	24	40	38	606				1			
		97+05	RT	CR 402	20	18	22	22		64				1		
		114+10	LT	IH 45 WFR	200	24	30	30	577				1			
		114+10	RT	IH 45 WFR	200	24	40	43	616				1			
		129+25	LT	IH 45 EFR	200	22	34	50	577				1			
		129+25	RT	IH 45 EFR	200	22	30	52	575				1			
		130+36	LT	CR 416	27	18	20	30		85				1		
		INTERSECTIONS (LISTED ABOVE)							2951				6			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								149				2		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									45				5	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									64				16	
		TURNOUTS (TY I @ 28 SY/EA)										56				2
		TURNOUTS (TY II @ 31 SY/EA)										93				3
CSJ 1147-02-025									2951	149	109	149	6	2	21	5

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION LEON COUNTY NO. 30 FM 977.dgn

REV DATE: 2-12-2015
CSJ: 0049-15-014

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
LEON COUNTY
LOCATION NO. 30
FM 977

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY	
TEXAS	BRY	ROBERTSON, ETC.	
CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	45

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
31	FM 977	1147-03-015	SH 75	FM 1119	500	700	640+00	648+00	0+00	401+86	CONC BRIDGE	40,186

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
31	FM 977	START 200' AFTER SH 75	2-12' LANES W/1' SHLDRS	0+00	242+09	24,209	26	69,937
		NO SEAL	CONCRETE BRIDGE	242+09	244+67	258	-	-
		SEAL FULL WIDTH/ STOP 200' FROM FM 1119	2-12' LANES W/1' SHLDRS	244+67	401+86	15,719	26	45,410
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				115,348
CSJ 1147-03-015							PROJECT TOTAL	230,696

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6102	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF		EA	EA	EA	EA	EA	EA	EA	LF
31	FM 977	1147-03-015	0	4,250	0	0	0	0	50	0	0	80,604	4,266	59,442	0	0	0	0	0	0	0	956	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS LT	RADIUS RT	ITEM 530 6003 INTERSECTIONS (SURF TRT)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT)	ITEM 530 6009 TURNOUTS (SURF TRT)	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
31	FM 977	86+59	LT	DURST RD	12	26	30	30		70				1		
		86+75	LT	CR 104	14	24	31	10		60				1		
		155+71	LT	CR 106	15	24	36	30		86				1		
		293+99	RT	CR 102	12	20	12	16		37				1		
		373+77	LT	CR 109	24	14	15	18		51				1		
		INTERSECTIONS (LISTED ABOVE)							0				0			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								304				5		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									18				2	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									140				35	
		TURNOUTS (TY I @ 28 SY/EA)										28				1
		TURNOUTS (TY II @ 31 SY/EA)										0				0
CSJ 1147-03-015									0	304	158	28	0	5	37	1

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION LEON COUNTY NO. 31 FM 977.dgn

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District
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PROJECT SUMMARY
LEON COUNTY
LOCATION NO. 31
FM 977

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	46

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
32	FM 831	1457-01-022	SH 75	FM 1511	940	1,700	636 -0.075	642 +1.152	0+00	372+90	CONC BRIDGE	37,290

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
32	FM 831	START 200' AFTER SH 75	2-12' LANES W/1' SHLDRS	0+00	215+90	21,590	26	62,371
		NO SEAL	CONCRETE BRIDGE	215+90	217+22	132	-	-
		SEAL FULL WIDTH	TRANSITION	217+22	222+09	487	28	1,515
		SEAL FULL WIDTH/ STOP AT FM 1511	2-12' LANES W/1' SHLDRS	222+09	372+90	15,081	26	43,567
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				136
CSJ 1457-01-022							PROJECT TOTAL	107,590

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662 6109 WK ZN PAV MRK SHT TRM (TAB) TY W EA	ITEM 662 6111 WK ZN PAV MRK SHT TRM (TAB) TY Y-2 EA	ITEM 666 6030 REFL PAV MRK TY I (W) (8") (DOT) (100MIL) LF	ITEM 666 6036 REFL PAV MRK TY I (W) (8") (SLD) (100MIL) LF	ITEM 666 6042 REFL PAV MRK TY I (W) (12") (SLD) (100MIL) LF	ITEM 666 6045 REFL PAV MRK TY I (W) (18") (SLD) (100MIL) LF	ITEM 666 6048 REFL PAV MRK TY I (W) (24") (SLD) (100MIL) LF	ITEM 666 6102 REFL PAV MRK TY I (W) (36") (YLD TRI) (100MIL) EA	ITEM 666 6167 REFL PAV MRK TY II (W) (4") (BRK) LF	ITEM 666 6170 REFL PAV MRK TY II (W) (4") (SLD) LF	ITEM 666 6205 REFL PAV MRK TY II (Y) (4") (BRK) LF	ITEM 666 6207 REFL PAV MRK TY II (Y) (4") (SLD) LF	ITEM 677 6001 ELIM EXT PAV MRK & MRKS (4") LF	ITEM 668 6056 PREFAB PAV MRK TY B (ACC PRK) (BL&WH) EA	ITEM 668 6077 PREFAB PAV MRK TY C (W) (ARROW) EA	ITEM 668 6078 PREFAB PAV MRK TY C (W) (DBL ARROW) EA	ITEM 668 6085 PREFAB PAV MRK TY C (W) (WORD) EA	ITEM 668 6089 PREFAB PAV MRK TY C (W) (RRXING) EA	ITEM 672 6007 REFL PAV MRKR TY I-C EA	ITEM 672 6009 REFL PAV MRKR TY II-A-A EA	ITEM 672 6010 REFL PAV MRKR TY II-C-R EA	ITEM 6056 6001 PREFORMED IN-LANE (TRANS) RUMBLE STRIP LF
32	FM 831	1457-01-022	0	4,035	0	0	0	0	48	0	0	75,027	2,810	63,786	0	0	0	0	0	0	0	938	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH (FT)	WIDTH (FT)	RADIUS LT (FT)	RADIUS RT (FT)	ITEM 530 6003 INTERSECTIONS (SURF TRT) (SY)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT) (SY)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT) (SY)	ITEM 530 6009 TURNOUTS (SURF TRT) (SY)	INTERSECTIONS (EA)	PUBLIC DRIVEWAYS (EA)	PRIVATE DRIVEWAYS (EA)	TURNOUTS (EA)
32	FM 831	53+59	RT	CR 275	40	24	46	16		164				1		
		61+67	LT	CR 268	22	23	36	22		98				1		
		275+77	RT	CR 283	20	16	36	8		66				1		
		372+90	RT	FM 1511	200	26	50	40	676				1			
		INTERSECTIONS (LISTED ABOVE)							676				1			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								328				3		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									0				0	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									136				34	
		TURNOUTS (TY I @ 28 SY/EA)										280				10
		TURNOUTS (TY II @ 31 SY/EA)										155				5
CSJ 1457-01-022									676	328	136	435	1	3	34	15

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

REV DATE: 2-12-2015
CSJ: 0049-15-014
FILENAME: G:\00491\5014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION LEON COUNTY NO. 32 FM 831.dgn

PRINT DATE	REVISION DATE
7/28/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
LEON COUNTY
LOCATION NO. 32
FM 831

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY	
TEXAS	BRY	ROBERTSON, ETC.	
CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	47

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
33	SH 75	0166-07-066	Leon County Line	IH 45	1,180	1,652	390 +0.002	394 +1.342	0+00	271+76	0	27,176

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
33	SH 75	BEG LEON COUNTY LN	2-11' TRVL LNS WITH 2-3' SHLDRS	0+00	24+29	2,429	28	7,556
		SEAL FULL WIDTH	TRANSITION	24+29	29+62	533	41	2,429
		SEAL FULL WIDTH	2-11' TRVL LNS 1-14' TURN LN WITH 2-4' SHLDRS	29+62	34+90	528	44	2,581
		SEAL FULL WIDTH	2-11' TRVL LNS 2-14' TURN LN WITH 2-2' SHLDRS	34+90	36+70	180	54	1,077
		SEAL FULL WIDTH	2-11' TRVL LNS 1-14' TURN LN WITH 2-4' SHLDRS	36+70	43+93	723	44	3,536
		SEAL FULL WIDTH	TRANSITION	43+93	49+32	539	41	2,453
		END SEAL PVMT SEAM 1000' N OF IH45 EFR	2-11' TRVL LNS WITH 2-3' SHLDRS	49+32	271+76	22,245	28	69,206
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				291
CSJ 0166-07-066							PROJECT TOTAL	89,131

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
33	SH 75	0166-07-066	144	2,816	0	1,436	0	0	82	0	0	55,025	5,435	23,652	0	0	7	0	7	0	72	551	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS LT	RADIUS RT	ITEM 530 6003 INTERSECTIONS (SURF TRT)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT)	ITEM 530 6009 TURNOUTS (SURF TRT)	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
33	SH 75	34+58	LT	SH OSR	200	24	60	60	706				1			
		34+58	RT	SH OSR	200	24	60	60	706				1			
		81+79	RT	HENDRIX LN	35	22	25	25		116				1		
		83+05	LT	WILLIAMS LN	22	30	25	40		124				1		
		112+36	LT	MCVEY LN	38	20	25	25		115				1		
		162+68	RT	WALDRIP RD	32	22	30	30		122				1		
		INTERSECTIONS (LISTED ABOVE)							1412				2			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								477				4		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									279				31	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									12				3	
		TURNOUTS (TY I @ 28 SY/EA)										476				17
		TURNOUTS (TY II @ 31 SY/EA)										248				8
CSJ 0166-07-066									1412	477	291	724	2	4	34	25

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\00491501014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION MADISON COUNTY NO.33 SH 75.dgn

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
MADISON COUNTY
LOCATION NO. 33
SH 75

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	48

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
34	IH 45 EFR	0675-05-098	SH0021	SH 75	656	787	142 +0.302	146 +0.517	0+00	234+01	HMA AT SH 75 INTERX	23,401

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
34	IH 45 EFR	BEG PAVEMENT SEAM 50' N OD SH21	2-11' LNS WITH 2-1' SHLDRS	0+00	220+60	22,060	24	58,826
		SEAL FULL WIDTH WITH CONNECTOR TO SH75	TRANSITION	220+60	222+02	143	37	586
		NO SEAL HMA AT SH75 INTERX		222+02	222+50	48	-	-
		SEAL FULL WIDTH	TRANSITION	222+50	222+92	42	44	207
		END SEAL IH45 ON RAMP END	1-14' TRVL LN AND 2-1' SHLDRS	222+92	234+01	1,109	16	1,971
						0		0
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				20
CSJ 0675-05-098							PROJECT TOTAL	61,610

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662 6109 WK ZN PAV MRK SHT TRM (TAB) TY W EA	ITEM 662 6111 WK ZN PAV MRK SHT TRM (TAB) TY Y-2 EA	ITEM 666 6030 REFL PAV MRK TY I (W) (8") (DOT) (100MIL) LF	6036 (8") (SLD) (100MIL) LF	6042 (12") (SLD) (100MIL) LF	6045 (18") (SLD) 6056 LF	6048 (24") (SLD) 666342 LF	6224 (36") (YLD TRI) (100MIL) EA	6167 REFL PAV MRK TY II (W) (4") (BRK) LF	6170 (4") (SLD) LF	6205 REFL PAV MRK TY II (Y) (4") (BRK) LF	6207 (4") (SLD) LF	ITEM 677 6001 ELIM EXT PAV MRK & MRKS (4") LF	ITEM 668 6056 PREFAB PAV MRK TY B (ACC PRK) (BL&WH) EA	6077 TY C (W) (ARROW) EA	6078 (W) (DBL ARROW) EA	6085 (W) (WORD) EA	6089 (W) (RRXING) EA	ITEM 672 6007 REFL PAV MRKR TY I-C EA	6009 TY II-A-A EA	6010 TY II-C-R EA	ITEM 6056 6001 PREFORMED IN-LANE (TRANS) RUMBLE STRIP LF
34	IH 45 EFR	0675-05-098	26	2,239	0	253	0	0	81	0	0	47,216	3,339	24,750	0	0	0	0	0	0	13	517	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH (FT)	WIDTH (FT)	RADIUS LT (FT)	RADIUS RT (FT)	ITEM 530 6003 INTERSECTIONS (SURF TRT) (SY)	6006 PUBLIC DRIVEWAYS (SURF TRT) (SY)	*INFO PRIVATE DRIVEWAYS (SURF TRT) (SY)	6009 TURNOUTS (SURF TRT) (SY)	INTERSECTIONS (EA)	PUBLIC DRIVEWAYS (EA)	PRIVATE DRIVEWAYS (EA)	TURNOUTS (EA)
34	IH 45 EFR	4+28	LT	IH 45 ON-RAMP	870	16	15	135	1987				1			
		102+64	RT	OLD CONCORD RD	40	20	20	50		158				1		
		165+42	RT	FM3091	200	24	40	50	632				1			
		210+83	LT	IH 45 OFF-RAMP	850	16	15	90	1710				1			
		INTERSECTIONS (LISTED ABOVE)							4,329				3			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								158				1		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									0				0	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									20				5	
		TURNOUTS (TY I @ 28 SY/EA)										28				1
		TURNOUTS (TY II @ 31 SY/EA)										0				0
CSJ 0675-05-098									4329	158	20	28	3	1	5	1

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

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Bryan District
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PROJECT SUMMARY
MADISON COUNTY
LOCATION NO. 34
IH 45 EFR

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	49

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\00491501\14\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION MADISON COUNTY NO. 34 IH 45 EFR.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
35	FM 3091	3178-03-009	4.22 Mi E of IH 45	IH 45 EFR	555	777	382 -0.045	386 +0.226	0+00	220+39	0	22,039

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
35	FM 3091	BEG AT END OF MAINTENANCE 4.2 MI NE OF IH45 EFR	2-10' LNS WITH 2-1' SHLDRS	0+00	220+39	22,039	22	53,872
		END SEAL 200' E OF IH45 EFR						
						0		0
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				121
CSJ 3178-03-009							PROJECT TOTAL	53,993

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666									ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
35	FM 3091	3178-03-009	0	2,417	0	0	0	0	52	0	0	44,415	2,960	30,529	0	0	0	0	2	0	0	529	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS LT	RADIUS RT	ITEM 530 6003 INTERSECTIONS (SURF TRT)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT)	ITEM 530 6009 TURNOUTS (SURF TRT)	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
35	FM 3091	60+14	RT	HALLIDAY LN	30	22	30	15		101				1		
		63+99	LT	HENSON LN	30	16	15	50		116				1		
		77+25	RT	PLUM LN	38	20	15	20		100				1		
		114+89	LT	STARR LN	30	20	20	130		321				1		
		161+04	LT	CR 212	30	20	15	25		87				1		
		INTERSECTIONS (LISTED ABOVE)							0				0			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								725				5		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									9				1	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									112				28	
		TURNOUTS (TY I @ 28 SY/EA)										560				20
		TURNOUTS (TY II @ 31 SY/EA)										93				3
CSJ 3178-03-009									0	725	121	653	0	5	29	23

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION MADISON COUNTY NO. 35 FM 3091.dgn

PRINT DATE	REVISION DATE
5/24/2021	

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PROJECT SUMMARY
MADISON COUNTY
LOCATION NO. 35
FM 3091

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	50

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
36	FM 908	0858-02-023	US 77	Burleson Co.	672	1,040	582 +0.148	590 +0.068	0+00	311+14	NONE	31,114

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
36	FM 908	BEG SEAL 55' S OF US 77 EDGE LINE	2 -11' TRVL LNS W/ 1' SHLDR	0+00	311+14	31,114	24	82,971
		END SEAL AT BURLESON CO LINE						
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				98
CSJ 0858-02-023							PROJECT TOTAL	83,069

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662 6109 WK ZN PAV MRK SHT TRM (TAB) TY W	ITEM 662 6111 WK ZN PAV MRK SHT TRM (TAB) TY Y-2	ITEM 666 6030 REFL PAV MRK TY I (W) (8") (DOT) (100MIL)	6036 (8") (SLD) (100MIL)	6042 (12") (SLD) (100MIL)	6045 (18") (SLD) (100MIL)	6048 (24") (SLD) (100MIL)	6224 (36") (YLD TRI) (100MIL)	6167 REFL PAV MRK TY II (W) (4") (BRK)	6170 (4") (SLD)	6205 REFL PAV MRK TY II (Y) (4") (BRK)	6207 (4") (SLD)	ITEM 677 6001 ELIM EXT PAV MRK & MRKS (4")	ITEM 668 6056 PREFAB PAV MRK TY B (ACC PRK) (BL&WH)	6077 TY C (W) (ARROW)	6078 (W) (DBL ARROW)	6085 (W) (WORD)	6089 (W) (RRXING)	ITEM 672 6007 REFL PAV MRKR TY I-C	6009 TY II-A-A	6010 TY II-C-R	ITEM 6056 6001 PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
36	FM 908	0858-02-023	0	3,383	0	0	0	0	54	0	0	61,435	5,174	36,605	66,609	0	0	0	0	0	0	722	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH (FT)	WIDTH (FT)	RADIUS LT (FT)	RADIUS RT (FT)	ITEM 530 6003 INTERSECTIONS (SURF TRT) (SY)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT) (SY)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT) (SY)	ITEM 530 6009 TURNOUTS (SURF TRT) (SY)	INTERSECTIONS (EA)	PUBLIC DRIVEWAYS (EA)	PRIVATE DRIVEWAYS (EA)	TURNOUTS (EA)
36	FM 908	59+75	LT	CR 318	35	25	25	30		134				1		
		133+02	LT	CR 319	35	25	15	30		125				1		
		167+09	RT	CR 316	55	20	10	35		154				1		
		173+81	RT	CR 316	50	20	35	10		143				1		
		262+08	LT	CR 383	35	20	25	15		99				1		
		INTERSECTIONS (LISTED ABOVE)							0				0			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								655				5		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									54				6	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									44				11	
		TURNOUTS (TY I @ 28 SY/EA)										532				19
		TURNOUTS (TY II @ 31 SY/EA)										31				1
CSJ 0858-02-023									0	655	98	563	0	5	17	20

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

REV DATE: 2-12-2015
CS: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION MILAM COUNTY NO. 36 FM 908.dgn

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
MILAM COUNTY
LOCATION NO. 36
FM 908

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY	
TEXAS	BRY	ROBERTSON, ETC.	
CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	51

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
37	FM 1786	1834-01-012	US 79	1.8 M S of US 79	1,016	1,370	414 -0.008	416 +0.069	0+00	88+74	NONE	8,874

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
37	FM 1786	BEG SEAL 290' S OF US 79 EDGE LINE	2 -12' TRVL LNS W/ 2' SHLDRS	0+00	12+37	1,237	28	3,848
		END SEAL AT CR 448 (END OF MAINT)	2 -11' TRVL LNS W/ 1' SHLDRS	12+37	88+74	7,637	24	20,365
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				37
CSJ 1834-01-012							PROJECT TOTAL	24,251

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666									ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) 6056	(24") (SLD) 666342	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
37	FM 1786	1834-01-012	0	862	0	0	0	0	10	0	0	17,474	1,933	5,620	0	0	0	0	2	0	0	167	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION	DESCRIPTION	LENGTH	WIDTH	RADIUS LT	RADIUS RT	ITEM 530 6003 INTERSECTIONS (SURF TRT)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT)	ITEM 530 6009 TURNOUTS (SURF TRT)	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
				(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
37	FM 1786	88+29 RT	CR 448	40	24	35	35		166				1		
		INTERSECTIONS (LISTED ABOVE)						0				0			
		PUBLIC DRIVEWAYS (LISTED ABOVE)							166				1		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)								9				1	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)								28				7	
		TURNOUTS (TY I @ 28 SY/EA)									252				9
		TURNOUTS (TY II @ 31 SY/EA)									62				2
CSJ 1834-01-012								0	166	37	314	0	1	8	11

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: Gr0049150140AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION MILAM COUNTY NO. 37 FM 1786.dgn

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
MILAM COUNTY
LOCATION NO. 37
FM 1786

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	52

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
38	FM 2269	2133-03-020	FM0485	US0190	995	1,453	392 -0.048	402 +0.090	0+00	527+05	CONC BRIDGE	52,705

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
38	FM 2269	BEG SEAL 320' S OF FM 1915 EDGELINE	2 -12' TRVL LNS W/ 1' SHLDRS	3+22	369+34	36,612	26	105,767
		NO SEAL	CONC BRIDGE	369+34	370+23	90	-	-
		SEAL FULL WIDTH	2 -12' TRVL LNS W/ 1' SHLDRS	370+23	399+22	2,899	26	8,374
		NO SEAL	CONC BRIDGE	399+22	400+70	148	-	-
		END SEAL 35' N OF US 190 EDGELINE	2 -12' TRVL LNS W/ 1' SHLDRS	400+70	527+05	12,635	26	36,501
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				195
CSJ 2133-03-020							PROJECT TOTAL	150,837

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
38	FM 2269	2133-03-020	0	5,462	0	0	0	0	24	0	0	10,351	11,461	40,401	0	0	0	0	2	0	0	1,085	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS LT	RADIUS RT	ITEM 530 6003 INTERSECTIONS (SURF TRT)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT)	ITEM 530 6009 TURNOUTS (SURF TRT)	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
38	FM 2269	14+36	RT	CR 123	32	16	15	25		78				1		
		43+77	LT	CR 146	45	18	20	30		121				1		
		63+89	RT	CR 124	45	20	45	25		164				1		
		103+33	RT	CR 119	30	18	30	30		103				1		
		128+46	LT	CR 122	25	30	15	45		134				1		
		164+95	RT	CR 120	32	25	25	90		254				1		
		179+89	RT	CR 147	55	16	30	60		206				1		
		256+19	LT	CR 144A	20	16	10	70		119				1		
		268+33	LT	CR 144	50	28	25	50		231				1		
		335+44	LT	CR 143	40	20	50	15		154				1		
		438+87	RT	CR 221	40	18	35	35		139				1		
		466+54	LT	CR 223	50	25	25	25		169				1		
		512+53	LT	W 6TH ST	70	16	15	0		130				1		
		INTERSECTIONS (LISTED ABOVE)							0				0			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								2,002				13		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									171				19	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									24				6	
		TURNOUTS (TY I @ 28 SY/EA)										196				7
		TURNOUTS (TY II @ 31 SY/EA)										403				13
CSJ 2133-03-020									0	2,002	195	599	0	13	25	20

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
MILAM COUNTY
LOCATION NO. 38
FM 2269

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.
STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.
CONTROL	SECTION	JOB / SHEET NO.
0049	15	014, ETC. / 53

REV DATE: 2-12-2015
CSJ: 0049-15-014
FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION MILAM COUNTY NO. 38 FM 2269.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
39	SH 14	0049-15-014	FM 46	SH 6	3,473	4,860	384 +1.366	390 +0.092	0+00	219+28	0	21,928

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
39	SH 14	BEG SEAL FM 46	2 -12' TRVL LNS W/ 6' SHLDRS	0+00	219+28	21,928	36	87,712
		END SEAL AT 300' E SH 6						
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				137
CSJ 0049-15-014							PROJECT TOTAL	87,849

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
39	SH 14	0049-15-014	28	2,059	0	272	0	0	197	0	0	44,118	4,085	16,629	0	0	4	0	2	0	14	414	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS LT	RADIUS RT	ITEM 530 6003 INTERSECTIONS (SURF TRT)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT)	ITEM 530 6009 TURNOUTS (SURF TRT)	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
39	SH 14	5+40	LT	DENTON	18	24	20	20		68				1		
		5+40	RT	DENTON	18	24	10	10		53				1		
		8+75	LT	JACK	22	24	25	25		89				1		
		8+75	RT	JACK	18	18	18	15		50				1		
		12+17	LT	CLAY	20	18	30	15		67				1		
		12+17	RT	CLAY	28	22	30	30		112				1		
		15+39	LT	COLORADO	18	46	30	30		133				1		
		15+39	RT	COLORADO	22	20	20	20		68				1		
		18+66	RT	MEDINA	13	18	10	10		31				1		
		21+93	RT	NAVIDAD	15	18	15	15		41				1		
		25+29	LT	SABINE	22	22	20	20		73				1		
		25+29	RT	SABINE	18	26	20	20		72				1		
		28+61	RT	SAN ANTONIO	20	18	20	20		60				1		
		32+11	RT	FM 1373	80	35	30	40	371				1			
		32+26	LT	SAN SABA	30	23	20	20		96				1		
		46+12	RT	CARTER	43	16	38	38		146				1		
		55+58	LT	SOUTH MAIN	36	26	33	33		156				1		
		93+86	LT	N TIDEWELL PRAIRIE	33	26	33	33		148				1		
		114+91	LT	BASHINSK	26	16	23	23		72				1		
		130+09	RT	SAND MOUNTAIN	26	16	23	23		72				1		
		164+78	RT	LEHOSKI	30	16	26	26		86				1		
		165+63	LT	BARTOWIAK	26	16	23	23		72				1		
		192+70	RT	YASTIC (CR 2159)	39	23	31	31		146				1		
		INTERSECTIONS (LISTED ABOVE)							371				1			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								1,911				22		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									117				13	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									20				5	
		TURNOUTS (TY I @ 28 SY/EA)										56				2
		TURNOUTS (TY II @ 31 SY/EA)										62				2
CSJ 0049-15-014									371	1,911	137	118	1	22	18	4

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation ©2021
Bryan District

PROJECT SUMMARY
ROBERTSON COUNTY
LOCATION NO. 39
SH 14

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	54

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION ROBERTSON COUNTY NO. 39 SH 14.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
40	SH 14	0093-08-019	Falls County Line	FM 46	3,473	4,860	382 +0.853	384 +1.366	0+00	74+18	0	7,418

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
40	SH 14	BEG SEAL AT FALLS CO LINE	2 -12' TRVL LNS W/ 10' SHLDRS	0+00	37+02	3,702	44	18,099
		TRANSITION	2 -12' TRVL LNS W/ 7' AVG FLUSH MED; 7' AVG SHLDRS	37+02	39+70	268	45	1,340
		SEAL FULL WIDTH	2 -12' TRVL LNS W/ 16' CLTL; 3' SHLDRS	39+70	42+47	277	46	1,416
		TRANSITION	2 -12' TRVL LNS W/ 7' AVG FLUSH MED; 7' AVG SHLDRS	42+47	45+32	285	45	1,425
		END SEAL AT FM 46	2 -12' TRVL LNS W/ 6' SHLDRS	45+32	74+18	2,886	36	11,544
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				44
CSJ 0093-08-019							PROJECT TOTAL	33,867

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) 6056	(24") (SLD) 666342	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
40	SH 14	0093-08-019	10	771	0	99	0	0	96	0	0	13,264	441	12,740	0	0	2	0	1	0	5	165	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS LT	RADIUS RT	ITEM 530 6003 INTERSECTIONS (SURF TRT)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT)	ITEM 530 6009 TURNOUTS (SURF TRT)	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
40	SH 14	13+30	RT	WHITE WELL	30	20	20	20		86				1		
		40+06	RT	FM 2413	75	30	80	80	556				1			
		42+50	RT	TEXAS (AUSTIN)	18	15	15	15		41				1		
		45+62	RT	RUSK	15	12	15	15		31				1		
		49+16	LT	FM 2413	100	25	25	25		308				1		
		49+16	RT	LAMAR	15	18	15	15		41				1		
		52+44	RT	DUVAL	25	14	25	25		69				1		
		62+26	RT	TITUS	15	20	15	15		45				1		
		65+58	LT	W HUNT	20	20	15	15		56				1		
		65+58	RT	W HUNT	20	20	15	15		56				1		
		68+99	LT	W CHAMBERLIN	18	14	15	15		39				1		
		68+99	RT	W CHAMBERLIN	16	22	20	20		59				1		
		74+18	RT	FM 46	200	50	15	15						1		
		INTERSECTIONS (LISTED ABOVE)							556				1			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								831				12		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									36				4	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									8				2	
		TURNOUTS (TY I @ 28 SY/EA)										0				0
		TURNOUTS (TY II @ 31 SY/EA)										0				0
CSJ 0093-08-019									556	831	44	0	1	12	6	0

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
5/24/2021	

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Bryan District

PROJECT SUMMARY ROBERTSON COUNTY LOCATION NO. 40 SH 14

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	55

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION ROBERTSON COUNTY NO. 40 SH 14.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
41	SS 231	0475-05-007	0.65 Mi W of SH 6	SH 6 West Frontage Road	203	290	612 -0.015	613 +0.031	0+00	34+32	0	3,432

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
41	SS 231	BEG SEAL AT RAILROAD EDGE LINE	2 -10' TRVL LNS	0+00	34+32	3,432	20	7,627
		END SEAL AT SH 6 WFR EDGE LINE						
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				8
CSJ 0475-05-007							PROJECT TOTAL	7,635

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662 6109 WK ZN PAV MRK SHT TRM (TAB) TY W EA	ITEM 662 6111 WK ZN PAV MRK SHT TRM (TAB) TY Y-2 EA	ITEM 666 6030 REFL PAV MRK TY I (W) (8") (DOT) (100MIL) LF	6036 (8") (SLD) (100MIL) LF	6042 (12") (SLD) (100MIL) LF	6045 (18") (SLD) (100MIL) LF	6048 (24") (SLD) (100MIL) LF	6224 (36") (YLD TRI) (100MIL) EA	6167 REFL PAV MRK TY II (W) (4") (BRK) LF	6170 (4") (SLD) LF	6205 REFL PAV MRK TY II (Y) (4") (BRK) LF	6207 (4") (SLD) LF	ITEM 677 6001 ELIM EXT PAV MRK & MRKS (4") LF	ITEM 668 6056 PREFAB PAV MRK TY B (ACC PRK) (BL&WH) EA	6077 TY C (W) (ARROW) EA	6078 (W) (DBL ARROW) EA	6085 (W) (WORD) EA	6089 (W) (RRXING) EA	ITEM 672 6007 REFL PAV MRKR TY I-C EA	6009 TY II-A-A EA	6010 TY II-C-R EA	ITEM 6056 6001 PREFORMED IN-LANE (TRANS) RUMBLE STRIP LF
41	SS 231	0475-05-007	0	331	0	0	0	0	22	0	0	6,503	0	6,608	0	0	0	0	0	1	0	82	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH (FT)	WIDTH (FT)	RADIUS LT (FT)	RADIUS RT (FT)	ITEM 530 6003 INTERSECTIONS (SURF TRT) (SY)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT) (SY)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT) (SY)	ITEM 530 6009 TURNOUTS (SURF TRT) (SY)	INTERSECTIONS (EA)	PUBLIC DRIVEWAYS (EA)	PRIVATE DRIVEWAYS (EA)	TURNOUTS (EA)
41	SS 231	18+70	RT	BENCH	22	16	26	19		64				1		
		22+05	LT	HARDING	22	30	15	21		90				1		
		INTERSECTIONS (LISTED ABOVE)							0				0			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								154				2		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									0				0	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									8				2	
		TURNOUTS (TY I @ 28 SY/EA)										196				7
		TURNOUTS (TY II @ 31 SY/EA)										217				7
CSJ 0475-05-007									0	154	8	413	0	2	2	14

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
5/24/2021	

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PROJECT SUMMARY
ROBERTSON COUNTY
LOCATION NO. 41
SH 14

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	56

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\004915\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION ROBERTSON COUNTY NO.41 SS 231.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
42	FM 46	0540-02-028	US 79	OSR	3,772	4,910	616 +0.343	629 +0.045	0+00	684+87	0	68,487

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
42	FM 46	BEG SEAL AT RAILROAD 110' S OF US 79 EDGE LINE	2 -11' TRVL LNS W/ 0' SHLDRS	0+00	0+50	50	22	122
		TRANSITION	2 -11' TRVL LNS W/ 4.5' SHLDRS	0+50	1+30	80	33	293
		SEAL FULL WIDTH	2 -11' TRVL LNS W/ 9' SHLDRS	1+30	39+10	3,780	40	16,800
		TRANSITION	2 -11' TRVL LNS W/ 6.5' SHLDRS	39+10	42+00	290	35	1,128
		SEAL FULL WIDTH	2 -11' TRVL LNS W/ 4' SHLDRS	42+00	113+34	7,134	30	23,780
		TRANSITION	2 -11' TRVL LNS W/ 2' SHLDRS	113+34	114+60	126	26	364
		BRIDGE	2 -11' TRVL LNS W/ 0' SHLDRS	114+60	115+11	51	22	125
		TRANSITION	2 -11' TRVL LNS W/ 3' SHLDRS	115+11	117+93	282	28	877
		SEAL FULL WIDTH	2 -11' TRVL LNS W/ 4' SHLDRS	117+93	342+45	22,452	30	74,840
		TRANSITION	2 -11' TRVL LNS W/ 2' SHLDRS	342+45	343+57	112	26	324
		BRIDGE	2 -11' TRVL LNS W/ 0' SHLDRS	343+57	344+07	50	22	122
		TRANSITION	2 -11' TRVL LNS W/ 2' SHLDRS	344+07	345+62	155	26	448
		SEAL FULL WIDTH	2 -11' TRVL LNS W/ 4' SHLDRS	345+62	578+75	23,313	30	77,710
		TRANSITION	2 -11' TRVL LNS W/ 8' AVG FLUSH MED; 4' AVG SHLDRS	578+75	585+95	720	38	3,040
		SEAL FULL WIDTH	2 -12' TRVL LNS W/ 12' CLTL; 3' SHLDRS	585+95	596+35	1,040	42	4,853
		TRANSITION	2 -11' TRVL LNS W/ 8' AVG FLUSH MED; 3' AVG SHLDRS	596+35	603+55	720	36	2,880
		END SEAL NEAR STOP BAR 40' N OF OSR EDGE LINE	2 -11' TRVL LNS W/ 4' SHLDRS	603+55	684+87	8,132	30	27,107
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				446
CSJ 0540-02-028							PROJECT TOTAL	235,259

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662 6109 WK ZN PAV MRK SHT TRM (TAB) TY W EA	ITEM 662 6111 WK ZN PAV MRK SHT TRM (TAB) TY Y-2 EA	ITEM 666 6030 REFL PAV MRK TY I (W) (8") (DOT) (100MIL) LF	ITEM 666 6036 REFL PAV MRK TY I (W) (8") (SLD) (100MIL) LF	ITEM 666 6042 REFL PAV MRK TY I (W) (12") (SLD) (100MIL) LF	ITEM 666 6045 REFL PAV MRK TY I (W) (18") (SLD) (100MIL) LF	ITEM 666 6048 REFL PAV MRK TY I (W) (24") (SLD) (100MIL) LF	ITEM 666 6224 REFL PAV MRK TY I (W) (36") (YLD TRI) (100MIL) EA	ITEM 666 6167 REFL PAV MRK TY II (W) (4") (BRK) LF	ITEM 666 6170 REFL PAV MRK TY II (W) (4") (SLD) LF	ITEM 666 6205 REFL PAV MRK TY II (Y) (4") (BRK) LF	ITEM 666 6207 REFL PAV MRK TY II (Y) (4") (SLD) LF	ITEM 677 6001 ELIM EXT PAV MRK & MRKS (4") LF	ITEM 668 6056 PREFAB PAV MRK TY B (ACC PRK) (BL&WH) EA	ITEM 668 6077 PREFAB PAV MRK TY C (W) (ARROW) EA	ITEM 668 6078 PREFAB PAV MRK TY C (W) (DBL ARROW) EA	ITEM 668 6085 PREFAB PAV MRK TY C (W) (WORD) EA	ITEM 668 6089 PREFAB PAV MRK TY C (W) (RRXING) EA	ITEM 672 6007 REFL PAV MRKR TY I-C EA	ITEM 672 6009 REFL PAV MRKR TY II-A-A EA	ITEM 672 6010 REFL PAV MRKR TY II-C-R EA	ITEM 6056 6001 PREFORMED IN-LANE (TRANS) RUMBLE STRIP LF
42	FM 46	0540-02-028	11	7,149	0	102	0	0	161	0	0	135,417	12,386	68,637	135,417	0	2	0	4	1	6	1,436	0	80

REV DATE: 2-12-2015
CSJ: 0049-15-014
FILENAME: G:\00491501\4\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION ROBERTSON COUNTY NO.42 FM 46.dgn

PRINT DATE	REVISION DATE
5/24/2021	

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Bryan District
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PROJECT SUMMARY
ROBERTSON COUNTY
LOCATION NO. 42
FM 46

SHEET 01 OF 02 SHEETS

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY	
TEXAS	BRY	ROBERTSON, ETC.	
CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	57

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS		ITEM 530				INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
									6003	6006	*INFO	6009				
							LT	RT	INTERSECTIONS (SURF TRT)	PUBLIC DRIVEWAYS (SURF TRT)	PRIVATE DRIVEWAYS (SURF TRT)	TURNOUTS (SURF TRT)				
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
42	FM 46	1+66	LT	W RAILROAD ST.	20	23	25	10		69				1		
		1+66	RT	W RAILROAD ST.	20	20	25	10		62				1		
		3+73	LT	SHORT ST.	32	26	25	25		123				1		
		7+12	LT	FM 2446	150	24	26	26	433				1			
		7+12	RT	E GRANT ST.	32	24	25	25		116				1		
		10+69	LT	RIPLEY RD.	32	20	25	25		101				1		
		10+69	RT	RIPLEY ST.	30	30	25	25		130				1		
		14+25	LT	SIMMONS ST.	32	24	25	25		116				1		
		14+25	RT	SIMMONS ST.	32	24	25	25		116				1		
		17+75	RT	GRIFFIN ST.	32	24	25	25		116				1		
		21+32	LT	GIRAUD ST.	30	25	25	25		114				1		
		21+32	RT	GIRAUD ST.	30	25	25	25		114				1		
		26+95	LT	OWENSVILLE RD.	32	24	25	25		116				1		
		26+95	RT	JONES ST.	32	24	25	25		116				1		
		34+71	LT	SOUTH ST.	28	25	25	25		108				1		
		34+71	RT	SOUTH ST.	33	28	25	25		133				1		
		46+95	LT	OWENSVILLE ST.	33	26	15	25		116				1		
		46+95	LT	HAMILTON LN.	33	16	15	20		74				1		
		291+17	RT	CR 325	26	20	20	20		77				1		
		301+57	RT	CR 323	30	18	30	30		103				1		
		304+27	LT	MORGAN LN.	30	28	30	30		137				1		
		426+71	RT	HENRY PRAIRIE (CR 324)	40	24	35	20		146				1		
		514+78	RT	HUGHE (CR 303)	24	20	25	25		84				1		
		586+19	RT	FM 391	200	28	24	24	650				1			
		586+19	LT	STATE ST.	19	30	25	25		93				1		
		589+15	LT	WHEELOCK SQUARE	19	19	25	25		70				1		
		592+82	LT	WHEELOCK SQUARE	19	21	25	25		74				1		
		596+60	LT	CEDAR CREEK RD.	21	28	25	25		96				1		
		596+60	RT	BARZIZA ST.	28	20	25	25		93				1		
		INTERSECTIONS (LISTED ABOVE)							1083				2			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								2,813				27		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									198				22	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									248				62	
		TURNOUTS (TY I @ 28 SY/EA)										784				28
		TURNOUTS (TY II @ 31 SY/EA)										589				19
CSJ 0540-02-028									1083	2,813	446	1,373	2	27	84	47

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION ROBERTSON COUNTY NO. 42 FM 46.dgn

REV DATE: 2-12-2015
CSJ: 0049-15-014

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
ROBERTSON COUNTY
LOCATION NO. 42
FM 46

SHEET 02 OF 02 SHEETS

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY	
TEXAS	BRY	ROBERTSON, ETC.	
CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	58

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
43	FM 2549	2479-01-022	US0190/SH 6	US 79	1,450	2,030	0	0	0+00	617+19	0	61,719

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
43	FM 2549	BEG SEAL AT SH 6 EDGE LINE	INTERSECTION WITH SH 6	0+00	0+57	57	40	253
		RAILROAD (SKIPPED)	-	0+57	0+75	18	-	-
		END SEAL 75' N OF FM 391 EDGE LINE	2 -11' TRVL LNS W/ 3' SHLDRS	0+75	300+60	29,985	28	93,288
		NO SEAL HMA INTERX	-	300+60	306+89	629	-	-
		END SEAL 200' S OF US 79 EDGELINE	2 -11' TRVL LNS W/ 1' SHLDRS	306+89	617+09	31,020	24	82,721
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				192
CSJ 2479-01-022							PROJECT TOTAL	176,454

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662 6109 WK ZN PAV MRK SHT TRM (TAB) TY W EA	ITEM 662 6111 WK ZN PAV MRK SHT TRM (TAB) TY Y-2 EA	ITEM 666 6030 REFL PAV MRK TY I (W) (8") (DOT) (100MIL) LF	ITEM 666 6036 REFL PAV MRK TY I (W) (8") (SLD) (100MIL) LF	ITEM 666 6042 REFL PAV MRK TY I (W) (12") (SLD) (100MIL) LF	ITEM 666 6045 REFL PAV MRK TY I (W) (18") (SLD) (100MIL) LF	ITEM 666 6048 REFL PAV MRK TY I (W) (24") (SLD) (100MIL) LF	ITEM 666 6224 REFL PAV MRK TY I (W) (36") (YLD TRI) (100MIL) EA	ITEM 666 6167 REFL PAV MRK TY II (W) (4") (BRK) LF	ITEM 666 6170 REFL PAV MRK TY II (W) (4") (SLD) LF	ITEM 666 6205 REFL PAV MRK TY II (Y) (4") (BRK) LF	ITEM 666 6207 REFL PAV MRK TY II (Y) (4") (SLD) LF	ITEM 677 6001 ELIM EXT PAV MRK & MRKS (4") LF	ITEM 668 6056 PREFAB PAV MRK TY B (ACC PRK) (BL&WH) EA	ITEM 668 6077 PREFAB PAV MRK TY C (W) (ARROW) EA	ITEM 668 6078 PREFAB PAV MRK TY C (W) (DBL ARROW) EA	ITEM 668 6085 PREFAB PAV MRK TY C (W) (WORD) EA	ITEM 668 6089 PREFAB PAV MRK TY C (W) (RRXING) EA	ITEM 672 6007 REFL PAV MRKR TY I-C EA	ITEM 672 6009 REFL PAV MRKR TY II-A-A EA	ITEM 672 6010 REFL PAV MRKR TY II-C-R EA	ITEM 6056 6001 PREFORMED IN-LANE (TRANS) RUMBLE STRIP LF
43	FM 2549	2479-01-022	0	6,698	0	0	0	0	116	0	0	121,618	7,357	89,732	0	0	0	0	6	2	0	1,493	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH (FT)	WIDTH (FT)	RADIUS LT (FT)	RADIUS RT (FT)	ITEM 530 6003 INTERSECTIONS (SURF TRT) (SY)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT) (SY)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT) (SY)	ITEM 530 6009 TURNOUTS (SURF TRT) (SY)	INTERSECTIONS (EA)	PUBLIC DRIVEWAYS (EA)	PRIVATE DRIVEWAYS (EA)	TURNOUTS (EA)
43	FM 2549	25+04	LT	WERLINGER ROAD	25	27	45	45		165				1		
		42+15	LT	MCCARVER LANE	35	25	27	25		130				1		
		80+38	LT	BURCH LANE	35	20	35	25		122				1		
		108+11	RT	JACK RABBIT LANE	40	25	35	35		170				1		
		108+11	LT	JACK RABBIT LANE	35	25	35	30		148				1		
		136+72	RT	FIVE POINTS ROAD	35	20	20	20		97				1		
		169+14	RT	CAMP ARROWMOON RD	45	25	25	30		162				1		
		279+25	RT	FINA ROAD	10	25	20	25		49				1		
		367+12	LT	BROADUS LN	30	24	15	15		91				1		
		389+74	RT	THEISS LOOP	15	16	20	10		39				1		
		398+32	RT	PIN OAK RD	33	24	15	15		99				1		
		408+23	RT	TRUELIGHT LN	63	24	15	15		179				1		
		448+99	LT	W HENRY PRAIRIE RD	40	45	50	35		289				1		
		569+42	LT	CHAS JOHNSON RD	20	24	15	15		65				1		
		594+05	RT	DANIELS LN	30	20	20	20		86				1		
		INTERSECTIONS (LISTED ABOVE)							0				0			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								1,891				15		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									72				8	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									120				30	
		TURNOUTS (TY I @ 28 SY/EA)										1,652				59
		TURNOUTS (TY II @ 31 SY/EA)										558				18
CSJ 2479-01-022									0	1,891	192	2,210	0	15	38	77

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
ROBERTSON COUNTY
LOCATION NO. 43
FM 2549

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	59

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION ROBERTSON COUNTY NO. 43 FM 2549.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
44	IH45 EFR	0675-06-114	FM 1696	FM 2989	71	142	123 +0.231	132 +0.703	0+00	502+76	CONCRETE SECTIONS	50,276

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
44	IH45 EFR	BEG SEAL 200' W OF FM1696	2-11' LNS WITH 2-1' SHLDRS	0+00	78+83	7,883	24	21,021
		CONCRETE SECTION		78+83	102+59	2,376	-	-
		SEAL FULL WIDTH	2-11' LNS WITH 2-1' SHLDRS	102+59	376+57	27,398	24	73,061
		CONCRETE SECTION		376+57	430+43	5,386	-	-
		END SEAL 200' S OF FM2989	2-11' LNS WITH 2-1' SHLDRS	430+43	502+76	7,234	24	19,290
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				0
CSJ 0675-06-114							PROJECT TOTAL	113,372

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
44	IH45 EFR	0675-06-114	0	5,498	0	0	0	0	47	0	0	104,814	7,167	66,972	0	0	0	0	0	0	0	1,209	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS LT	RADIUS RT	ITEM 530 6003 INTERSECTIONS (SURF TRT)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT)	ITEM 530 6009 TURNOUTS (SURF TRT)	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
44	IH45 EFR	321+60	RT	CEDAR RIDGE RD	40	26	15	15		127				1		
		500+28	LT	IH45 OFF-RAMP	930	18	25	100	2114				1			
		INTERSECTIONS (LISTED ABOVE)							2114				1			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								127				1		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									0				0	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									0				0	
		TURNOUTS (TY I @ 28 SY/EA)										0				0
		TURNOUTS (TY II @ 31 SY/EA)										0				0
CSJ 0675-06-114									2114	127	0	0	1	1	0	0

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\00491501\4\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION WALKER COUNTY NO. 44 IH 45 EFR.dgn

PRINT DATE	REVISION DATE
7/28/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
WALKER COUNTY
LOCATION NO. 44
IH 45 EFR

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	60

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS		ADT		REFERENCE MARKERS **		STATION		SKIPPED LOCATIONS	NET LENGTH (FT)
			FROM	TO	2018	2038	BEGIN	END	FROM	TO		
45	FM 1097	1259-03-008	Montgomery CL	SH0150	3,287	3,944	682 +1.720	684 +0.779	0+00	52+64	0	5,264

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
45	FM 1097	BEG SEAL AT MONTGOMERY CL	2-12' LNS WITH 2-7' SHLDRS	0+00	52+64	5,264	38	22,226
		END SEAL 200' S OF SH 150						
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				12
CSJ 1259-03-008							PROJECT TOTAL	22,238

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) 6056	(24") (SLD) 666342	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
45	FM 1097	1259-03-008	0	573	0	0	0	0	15	0	0	10,866	299	9,668	0	0	0	0	0	0	0	135	0	0

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\00491501\4\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION WALKER COUNTY NO. 45 FM 1097.dgn

PRINT DATE	REVISION DATE
7/28/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
WALKER COUNTY
LOCATION NO. 45
FM 1097

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	61

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
46	FM 1696	1809-02-028	Grimes County Line	SH 75	2,775	3,330	658 +0.001	670 +1.878	0+00	727+16	CONCRETE BRIDGES	72,716

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
46	FM 1696	BEG SEAL AT GRIMES CL	2-11' TRVL LN WITH 2-1' SHLDR	0+00	88+49	8,849	24	23,598
		CONCRETE BRIDGE		88+49	90+39	190	-	-
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-1' SHLDR	90+39	93+19	280	24	746
		CONCRETE BRIDGE		93+19	94+41	121	-	-
		SEAL FULL WIDTH	2-11' TRVL LN WITH 2-1' SHLDR	94+41	380+53	28,612	24	76,300
		SEAL FULL WIDTH	TRANSITION	380+53	385+76	523	36	2,091
		SEAL FULL WIDTH	2-11' TRVL LNS W/ 1-14' TURN LN AND 2-1' SLDRS	385+76	392+04	628	38	2,653
		SEAL FULL WIDTH	TRANSITION	392+04	398+38	634	33	2,323
		END SEAL AT SH 75 EDGELINE	2-11' TRVL LN WITH 2-1' SHLDR	398+38	727+16	32,879	24	87,676
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				739
CSJ 1809-02-028							PROJECT TOTAL	196,126

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662 6109 WK ZN PAV MRK SHT TRM (TAB) TY W	ITEM 662 6111 WK ZN PAV MRK SHT TRM (TAB) TY Y-2	ITEM 666 6030 REFL PAV MRK TY I (W) (8") (DOT) (100MIL)	6036 (8") (SLD) (100MIL)	6042 (12") (SLD) (100MIL)	6045 (18") (SLD) (100MIL)	6048 (24") (SLD) (100MIL)	6224 (36") (YLD TRI) (100MIL)	6167 REFL PAV MRK TY II (W) (4") (BRK)	6170 (4") (SLD)	6205 REFL PAV MRK TY II (Y) (4") (BRK)	6207 (4") (SLD)	ITEM 677 6001 ELIM EXT PAV MRK & MRKS (4")	ITEM 668 6056 PREFAB PAV MRK TY B (ACC PRK) (BL&WH)	6077 TY C (W) (ARROW)	6078 (W) (DBL ARROW)	6085 (W) (WORD)	6089 (W) (RRXING)	ITEM 672 6007 REFL PAV MRKR TY I-C	6009 TY II-A-A	6010 TY II-C-R	ITEM 6056 6001 PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
46	FM 1696	1809-02-028	67	7,509	0	665	0	0	92	0	0	144,038	12,217	76,772	233,027	0	2	0	4	0	34	1,565	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH (FT)	WIDTH (FT)	RADIUS LT (FT)	RADIUS RT (FT)	ITEM 530 6003 INTERSECTIONS (SURF TRT) (SY)	6006 PUBLIC DRIVEWAYS (SURF TRT) (SY)	*INFO PRIVATE DRIVEWAYS (SURF TRT) (SY)	6009 TURNOUTS (SURF TRT) (SY)	INTERSECTIONS (EA)	PUBLIC DRIVEWAYS (EA)	PRIVATE DRIVEWAYS (EA)	TURNOUTS (EA)
46	FM 1696	50+05	LT	ROUND PRAIRIE RD	32	26	30	25		129				1		
		228+68	LT	BISHOP RD	20	30	75	20		166				1		
		339+66	RT	SCALES RANCH RD	35	18	20	100		264				1		
		381+53	LT	GUERRANT RD	30	24	25	15		101				1		
		385+28	RT	HOPEWELL RD	40	28	30	30		168				1		
		477+68	LT	COGANS GROVE	25	45	20	25		150				1		
		487+71	RT	ROBERTS RD	25	20	20	20		75				1		
		553+29	RT	FM 2550	200	28	25	75	772				1			
		637+24	LT	WHITE OAK DR	25	22	25	30		98				1		
		645+96	LT	HARDY LN	20	22	25	25		79				1		
		672+78	LT	RIGBY LN	32	22	25	10		96				1		
				INTERSECTIONS (LISTED ABOVE)					772				1			
				PUBLIC DRIVEWAYS (LISTED ABOVE)						1,326				10		
				*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)							711				79	
				*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)							28				7	
				TURNOUTS (TY I @ 28 SY/EA)								1,512				54
				TURNOUTS (TY II @ 31 SY/EA)								496				16
CSJ 1809-02-028									772	1,326	739	2,008	1	10	86	70

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\00491\5014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION WALKER COUNTY NO. 46 FM 1696.dgn

PRINT DATE	REVISION DATE
7/28/2021	

Texas Department of Transportation ©2021
Bryan District

PROJECT SUMMARY
WALKER COUNTY
LOCATION NO. 46
FM 1696

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.
STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.
CONTROL	SECTION	JOB / SHEET NO.
0049	15	014, ETC. / 62

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
47	FM 1696	1809-03-011	SH 75	IH 45	1,028	1,234	672 -0.042	672 +1.490	0+00	81+52	0	8,152

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
47	FM 1696	BEG SEAL AT SH 75 EDGELINE	2-11' TRVL LN WITH 2-1' SHLDR	0+00	81+52	8,152	24	21,739
		END SEAL 80' N OF IH 45 EFR EDGELINE						
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				0
CSJ 1809-03-011							PROJECT TOTAL	21,739

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
47	FM 1696	1809-03-011	0	1,102	0	0	0	0	106	0	0	20,318	1,007	15,999	0	0	0	0	0	0	0	305	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS LT	RADIUS RT	ITEM 530 6003 INTERSECTIONS (SURF TRT)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT)	ITEM 530 6009 TURNOUTS (SURF TRT)	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
47	FM 1696	19+32	LT	SPRINGS RD	40	20	35	20	128	128			1	1		
		38+86	LT	HIDDEM CREEL DR	30	18	25	25		90				1		
		50+85	LT	YATES LN	30	20	25	25		97				1		
		54+28	RT	WOODVIEW DR	35	18	25	25		100				1		
		61+04	RT	WOOD LODGE DR	35	20	30	30		121				1		
		62+62	LT	WILKERSON LN	62	18	10	125		461				1		
		68+48	LT	IH 45 OFF-RAMP	1215	18	50	90	2683				1			
		68+48	RT	IH 45 ON- RAMP	900	18	45	100	2087				1			
		74+98	LT	IH 45 ON- RAMP	855	18	75	85	2017				1			
		74+98	RT	IH 45 OFF-RAMP	1077	18	85	75	2461				1			
		80+73	LT	IH 45 EFR	200	24	55	55	678				1			
		INTERSECTIONS (LISTED ABOVE)							10054				6			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								997				6		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									0				0	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									0				0	
		TURNOUTS (TY I @ 28 SY/EA)										0				0
		TURNOUTS (TY II @ 31 SY/EA)										0				0
CSJ 1809-03-011									10054	997	0	0	6	6	0	0

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
7/28/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
WALKER COUNTY
LOCATION NO. 47
FM1696

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	63

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION WALKER COUNTY NO. 47 FM 1696.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS		ADT		REFERENCE MARKERS **		STATION		SKIPPED LOCATIONS	NET LENGTH (FT)
			FROM	TO	2018	2038	BEGIN	END	FROM	TO		
48	PR 40	2267-01-011	SH0075	End of Maintenance	2,307	4,614	412 -0.030	412 +1.143	0+00	185+33	0	18,533

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
48	PR 40	BEG SEAL 200' S OF SH 75	2-11' TRVL LN WITH 2-1' SHLDR	0+00	114+85	11,485	24	30,627
		PARK HEADQUARTERS	TRANSITION	114+85	126+05	1,120	38.5	4,785
		SEAL TRAVEL LANES	2-11' TRVL LN WITH 2-1' SHLDR	126+05	179+31	5,326	24	14,203
		END SEAL AT END OF ONEWAY SECTION	1-22' TRVL LN WO NO SHLDR	179+31	185+33	602	22	1,472
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				0
CSJ 2267-01-011							PROJECT TOTAL	51,086

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
48	PR 40	2267-01-011	0	819	0	0	0	0	94	0	0	15,132	0	16,372	0	0	2	0	0	0	0	321	0	0

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\00491501\4\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION WALKER COUNTY NO. 48 PR 40.dgn

PRINT DATE	REVISION DATE
7/28/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
WALKER COUNTY
LOCATION NO. 48
PR 40

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	64

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS		ADT		REFERENCE MARKERS **		STATION		SKIPPED LOCATIONS	NET LENGTH (FT)
			FROM	TO	2018	2038	BEGIN	END	FROM	TO		
49	PR 40A	2267-01-012	PR0040	End of Maintenance	113	136	#REFR	#REFR	0+00	61+93	0	6,193

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
49	PR 40A	BEG SEAL AT PR 40 EDGELINE	2-11' TRVL LN WITH 2-1' SHLDR	0+00	61+93	6,193	24	16,515
		END SEAL AT END OF LOOP INTERX WITH PR 40A						
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				0
CSJ 2267-01-012							PROJECT TOTAL	16,515

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
49	PR 40A	2267-01-012	0	619	0	0	0	0	30	0	0	12,386	0	12,386	0	0	0	0	0	0	0	155	0	0

REV DATE: 2-12-2015
CSJ: 0049-15-014

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PRINT DATE	REVISION DATE
7/28/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
WALKER COUNTY
LOCATION NO. 49
PR 40A

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	65

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
50	FM 2550	2480-01-011	FM 1696	SH 30	1,235	1,951	404 -0.018	403 +0.362	0+00	225+83	0	22,583

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
50	FM 2550	BEG SEAL 200' S OF FM1696	2-11' TRVL LN WITH 2-1' SHLDR	0+00	225+83	22,583	24	60,220
		END SEAL HMA PVMT SEAM 35' N OF SH 30 EDGELINE						
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				228
CSJ 2480-01-011							PROJECT TOTAL	60,448

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6102	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF		EA	EA	EA	EA	EA	EA	EA	LF
50	FM 2550	2480-01-011	46	195	0	459	0	0	0	0	0	3,294	297	2,107	5,698	0	2	0	1	0	23	41	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS LT	RADIUS RT	ITEM 530 6003 INTERSECTIONS (SURF TRT)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT)	ITEM 530 6009 TURNOUTS (SURF TRT)	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
50	FM 2550	17+69	LT	W OAK DR.	22	40	25	25		128				1		
		38+65	RT	ROBERTS RD	35	20	60	25		174				1		
		78+62	LT	ARCHIE RD	25	18	25	25		80				1		
		85+69	RT	HALL RANCH RD	40	20	20	60		182				1		
		146+36	LT	WIRE RD	35	24	25	35		138				1		
		146+36	RT	WIRE LOOP RD	35	24	35	25		138				1		
		182+79	RT	WIRE LOOP RD	30	20	20	50		133				1		
		198+11	LT	LACEE LN	30	20	20	20		86				1		
		215+37	RT	RED BIRD LN	35	20	30	20		109				1		
		INTERSECTIONS (LISTED ABOVE)							0				0			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								1,168				9		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									0				0	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									228				57	
		TURNOUTS (TY I @ 28 SY/EA)										728				26
		TURNOUTS (TY II @ 31 SY/EA)										310				10
CSJ 2480-01-011									0	1,168	228	1,038	0	9	57	36

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Texas Department of Transportation
Bryan District

PROJECT SUMMARY
WALKER COUNTY
LOCATION NO. 50
FM 2550

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	66

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION WALKER COUNTY NO. 50 FM 2550.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
51	FM 3454	3443-01-006	End of State Maint.	FM 980	1,168	1,402	396 +0.000	398 +0.076	0+00	86+38	0	8,638

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
51	FM 3454	BEG SEAL AT EOM 1.6 MI N OF FM 980	2-11' TRVL LN WITH 2-2' SHLDR	0+00	86+38	8,638	26	24,954
		END SEAL AT FM 980 EDGELINE						
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				170
CSJ 3443-01-006							PROJECT TOTAL	25,124

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6102	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
51	FM 3454	3443-01-006	0	908	0	0	0	0	12	0	0	17,156	494	15,178	0	0	0	0	0	0	0	214	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS LT	RADIUS RT	ITEM 530 6003 INTERSECTIONS (SURF TRT)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT)	ITEM 530 6009 TURNOUTS (SURF TRT)	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
51	FM 3454	1+53	LT	FORREST CREEK DR	30	16	25	25		84				1		
		7+23	LT	WIMBERLY LN	30	16	25	50		125				1		
		8+87	RT	NEWPORT VILLAGE DR	30	16	30	30		97				1		
		21+44	LT	MCCRORY DR	30	25	20	20		103				1		
		26+45	LT	TURNER RD	30	16	25	30		90				1		
		40+34	LT	GOLDEN OAKS	30	18	25	25		90				1		
		55+02	LT	BRUMLEY RD	25	16	25	25		75				1		
		INTERSECTIONS (LISTED ABOVE)							0				0			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								664				7		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									162				18	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									8				2	
		TURNOUTS (TY I @ 28 SY/EA)										84				3
		TURNOUTS (TY II @ 31 SY/EA)										0				0
CSJ 3443-01-006									0	664	170	84	0	7	20	3

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\00491501\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION WALKER COUNTY NO. 51 FM 3454.dgn

PRINT DATE	REVISION DATE
7/28/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
WALKER COUNTY
LOCATION NO. 51
FM 3454

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	67

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
52	FM 3478	3550-01-015	FM 230	FM 980	2,253	2,839	386 -0.112	394 +0.224	0+00	378+63	CONCRETE BRIDGES	37,863

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
52	FM 3478	BEG SEAL 200' S OF FM 230	TRANSITION	0+00	1+11	111	44	542
		SEAL FULL WIDTH	2-11' TRVL LNS WITH 2-3' SHLDRS	1+11	94+35	9,324	28	29,009
		NO SEAL	CONC BRIDGE	94+35	100+37	602	-	-
		SEAL FULL WIDTH	2-11' TRVL LNS WITH 2-3' SHLDRS	100+37	226+62	12,624	28	39,276
		NO SEAL	CONC BRIDGE	226+62	227+88	127	-	-
		END SEAL 200' N OF FM 980	2-11' TRVL LNS WITH 2-3' SHLDRS	227+88	378+63	15,074	28	46,898
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				76
CSJ 3550-01-015							PROJECT TOTAL	115,802

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6102	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
52	FM 3478	3550-01-015	0	4114	0	0	0	0	0	0	0	75726	7043	40007	0	0	0	0	4	0	0	852	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION	DESCRIPTION	LENGTH (FT)	WIDTH (FT)	RADIUS LT (FT)	RADIUS RT (FT)	ITEM 530 6003 INTERSECTIONS (SURF TRT) (SY)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT) (SY)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT) (SY)	ITEM 530 6009 TURNOUTS (SURF TRT) (SY)	INTERSECTIONS (EA)	PUBLIC DRIVEWAYS (EA)	PRIVATE DRIVEWAYS (EA)	TURNOUTS (EA)
52	FM 3478		INTERSECTIONS (LISTED ABOVE)					0				0			
			PUBLIC DRIVEWAYS (LISTED ABOVE)						0				0		
			*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)							36				4	
			*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)							40				10	
			TURNOUTS (TY I @ 28 SY/EA)								112				4
			TURNOUTS (TY II @ 31 SY/EA)								0				0
CSJ 3550-01-015								0	0	76	112	0	0	14	4

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
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Texas Department of Transportation
Bryan District
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PROJECT SUMMARY
WALKER COUNTY
LOCATION NO. 52
FM 3478

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	68

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REV DATE: 2-12-2015
CSJ: 0049-15-014

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
53	FM 109	0187-06-028	SH 36	AUSTIN CL	3,477	4,800	446 -0.024	452 +0.027	0+00	244+23	RAILROAD	24,423

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
53	FM 109	BEG SEAL 230' S OF SH 36 EDGE LINE	2 -11' TRVL LNS W/ 3' SHLDRS	0+00	5+00	500	28	1,556
		NO SEAL	RRX	5+00	5+10	10	-	-
		SEAL FULL WIDTH	2 -11' TRVL LNS W/ 3' SHLDRS	5+10	217+57	21,247	28	66,102
		SEAL FULL WIDTH	2 -11' TRVL LNS W/ 1' SHLDRS	217+57	223+77	620	24	1,653
		END SEAL AT AUSTIN CO LINE	2 -11' TRVL LNS W/ 3' SHLDRS	223+77	244+23	2,046	28	6,365
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				125
CSJ 0187-06-028							PROJECT TOTAL	75,801

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
53	FM 109	0187-06-028	0	2,525	0	0	0	0	88	0	0	48,590	2,886	33,181	0	0	0	0	0	1	0	564	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS LT	RADIUS RT	ITEM 530 6003 INTERSECTIONS (SURF TRT)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT)	ITEM 530 6009 TURNOUTS (SURF TRT)	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
53	FM 109	45+49	RT	WIEGHAT	28	20	30	30		106				1		
		55+33	RT	FM 3456	200	25	32	32	605				1			
		55+45	LT	PIEPER (CR 33)	35	25	40	40	174				1			
		114+02	RT	HALL	18	22	23	23		70				1		
		153+26	LT	MUELLERSVILLE	20	20	20	20		64				1		
		169+41	LT	SHIRTTAIL	20	25	30	25		92				1		
		209+69	LT	TOLIVER	25	22	30	30		104				1		
		231+89	RT	LEHMAN	20	28	20	20		82				1		
		INTERSECTIONS (LISTED ABOVE)							779				2			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								518				6		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									45				5	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									80				20	
		TURNOUTS (TY I @ 28 SY/EA)										980				35
		TURNOUTS (TY II @ 31 SY/EA)										558				18
CSJ 0187-06-028									779	518	125	1,538	2	6	25	53

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\00491501\4\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION WASHINGTON COUNTY NO. 53 FM 109.dgn

PRINT DATE	REVISION DATE
5/24/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
WASHINGTON COUNTY
LOCATION NO. 53
FM 109

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	69

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
54	FM 389	0315-08-044	AUSTIN CL	FM 332	2,884	4,040	462 +2.088	474 +1.254	0+00	592+83	BRIDGES	59,283

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
54	FM 389	BEG SEAL AT AUSTIN CO LINE	2 -11' TRVL LNS W/ 1' SHLDRS	0+00	37+96	3,796	24	10,123
		NO SEAL	CONC BRIDGE	37+96	39+44	148	-	-
		SEAL FULL WIDTH	2 -11' TRVL LNS W/ 1' SHLDRS	39+44	274+15	23,471	24	62,589
		NO SEAL	CONC BRIDGE	274+15	275+42	127	0	0
		SEAL FULL WIDTH	2 -11' TRVL LNS W/ 1' SHLDRS	275+42	365+52	9,010	24	24,027
		NO SEAL	CONC BRIDGE	365+52	369+17	365	-	-
		END SEAL 200' E OF FM 332 CENTERLINE	2 -11' TRVL LNS W/ 1' SHLDRS	369+17	592+83	22,366	24	59,643
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				221
CSJ 0315-08-044							PROJECT TOTAL	156,602

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) 6056	(24") (SLD) 666342	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
54	FM 389	0315-08-044	0	6,189	0	0	0	0	202	0	0	116,884	6,167	86,725	116,884	0	0	0	0	0	0	1,391	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS LT	RADIUS RT	ITEM 530 6003 INTERSECTIONS (SURF TRT)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT)	ITEM 530 6009 TURNOUTS (SURF TRT)	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
54	FM 389	25+95	LT	BRANDT	37	20	30	30		126				1		
		49+86	RT	ROLLING CREEK	50	22	35	35		181				1		
		72+40	RT	SACRED HEART	40	18	20	20		100				1		
		128+68	LT	BRANDT	40	20	18	18		105				1		
		173+16	LT	FM 2502	90	24	72	72	488				1			
		173+16	RT	FM 2502	90	24	72	72	488				1			
		268+23	RT	SAWMILL	44	18	22	21		111				1		
		302+37	LT	BOEHNEMANN	40	23	20	35		141				1		
		344+73	RT	ADAMEK	30	22	45	15		126				1		
		387+24	RT	GREEN OAK	38	20	15	15		96				1		
		411+66	LT	SANDY CREEK	28	22	25	10		86				1		
		444+27	RT	SANDY CREEK BAPTIST CHURCH	30	15	15	15		61				1		
		453+85	RT	BARANOWSKI	25	22	30	30		104				1		
		462+88	LT	S BERLIN	40	21	30	30		137				1		
		482+66	LT	LINDA	30	22	20	30		105				1		
		539+54	LT	PECAN GLEN	32	22	40	40		155				1		
		539+54	RT	TIGER POINT	30	24	21	22		103				1		
		575+21	LT	BETTY	33	24	20	15		103				1		
		590+83	RT	FM 332	200	24	62	62	717				1			
		INTERSECTIONS (LISTED ABOVE)							1,693				3			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								1,840				16		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									45				5	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									176				44	
		TURNOUTS (TY I @ 28 SY/EA)										2,072				74
		TURNOUTS (TY II @ 31 SY/EA)										899				29
CSJ 0315-08-044									1693	1,840	221	2,971	3	16	49	103

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
7/28/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
WASHINGTON COUNTY
LOCATION NO. 54
FM 389

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	70

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION WASHINGTON COUNTY NO. 54 FM 389.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
55	FM 1370	1404-01-013	FM 1155	END OF STATE MAINTENANCE	489	600	432 -0.019	437 +0.032	0+00	258+54	BRIDGE	25,854

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
55	FM 1370	BEG SEAL 40' E OF FM 1155 EDGE LINE	2 -11' TRVL LNS W/ 1' SHLDRS	0+00	69+56	6,956	24	18,549
		NO SEAL	CONC BRIDGE	69+56	70+86	130	-	-
		END SEAL AT END OF MAINT	2 -11' TRVL LNS W/ 1' SHLDRS	70+86	258+54	18,768	24	50,048
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				108
CSJ 1404-01-013							PROJECT TOTAL	68,705

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
55	FM 1370	1404-01-013	0	2,718	0	0	0	0	75	0	0	50,910	3,551	33,060	0	0	0	0	0	0	0	589	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH (FT)	WIDTH (FT)	RADIUS LT (FT)	RADIUS RT (FT)	ITEM 530 6003 INTERSECTIONS (SURF TRT) (SY)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT) (SY)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT) (SY)	ITEM 530 6009 TURNOUTS (SURF TRT) (SY)	INTERSECTIONS (EA)	PUBLIC DRIVEWAYS (EA)	PRIVATE DRIVEWAYS (EA)	TURNOUTS (EA)
55	FM 1370	53+09	LT	BOENKER	28	16	20	20		69				1		
		105+98	RT	BUCK	38	15	60	30		168				1		
		109+97	RT	BUCK	45	15	25	50		150				1		
		139+79	LT	HOLLE	85	18	100	60		494				1		
		174+54	RT	FM 2726	120	24	70	62	529				1			
		230+13	LT	OLD RIVER	85	14	65	35		263				1		
		258+14	RT	FLAT PRAIRIE	50	18	28	60		205				1		
		INTERSECTIONS (LISTED ABOVE)							529				1			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								1,349				6		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									0				0	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									108				27	
		TURNOUTS (TY I @ 28 SY/EA)										448				16
		TURNOUTS (TY II @ 31 SY/EA)										775				25
CSJ 1404-01-013									529	1,349	108	1,223	1	6	27	41

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
7/28/2021	

Texas Department of Transportation
Bryan District
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PROJECT SUMMARY
WASHINGTON COUNTY
LOCATION NO. 55
FM 1370

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY	
TEXAS	BRY	ROBERTSON, ETC.	
CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	71

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION WASHINGTON COUNTY NO. 55 FM1370.dgn

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
56	FM 2726	1404-02-030	FM 1370	FM 1155	309	430	0	0	0+00	172+17	BRIDGE	17,217

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
56	FM 2726	BEG SEAL 120' W OF FM 1370 EDGE LINE	2 -11' TRVL LNS W/ 0.5' SHLDRS	0+00	122+48	12,248	23	31,300
		NO SEAL	CONC BRIDGE	122+48	123+38	90	-	-
		END SEAL 100' E OF FM 1155 EDGE LINE	2 -11' TRVL LNS W/ 0.5' SHLDRS	123+38	172+17	4,879	23	12,469
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				85
CSJ 1404-02-030							PROJECT TOTAL	43,854

PAVEMENT MARKINGS AND MARKERS SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK		REFL PAV MRK TY I						REFL PAV MRK TY II		REFL PAV MRK TY II		ELIM EXT PAV	PREFAB PAV MRK					REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			SHT TRM (TAB)		(W)						(W)		(Y)		MRK & MRKS	TY B	TY C							
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH)	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
56	FM 2726	1404-02-030	0	1,939	0	0	0	0	28	0	0	34,033	2,861	21,646	0	0	0	0	0	0	0	413	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH (FT)	WIDTH (FT)	RADIUS LT (FT)	RADIUS RT (FT)	ITEM 530 6003 INTERSECTIONS (SURF TRT) (SY)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT) (SY)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT) (SY)	ITEM 530 6009 TURNOUTS (SURF TRT) (SY)	INTERSECTIONS (EA)	PUBLIC DRIVEWAYS (EA)	PRIVATE DRIVEWAYS (EA)	TURNOUTS (EA)
56	FM 2726	79+77	LT	FLAT PRAIRIE	35	20	35	30		129				1		
		113+37	LT	EGYPT	60	28	55	55		331				1		
				INTERSECTIONS (LISTED ABOVE)					0				0			
				PUBLIC DRIVEWAYS (LISTED ABOVE)						460				2		
				*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)							9				1	
				*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)							76				19	
				TURNOUTS (TY I @ 28 SY/EA)								84				3
				TURNOUTS (TY II @ 31 SY/EA)								62				2
CSJ 1404-02-030									0	460	85	146	0	2	20	5

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\00491501\4\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION WASHINGTON COUNTY NO. 56 FM 2726.dgn

PRINT DATE	REVISION DATE
7/28/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
WASHINGTON COUNTY
LOCATION NO. 56
FM 2726

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	72

PROJECT SUMMARY

LOCATION NUMBER	HIGHWAY	CSJ	PROJECT LIMITS FROM	PROJECT LIMITS TO	ADT 2018	ADT 2038	REFERENCE MARKERS ** BEGIN	REFERENCE MARKERS ** END	STATION FROM	STATION TO	SKIPPED LOCATIONS	NET LENGTH (FT)
57	FM 1371	1405-01-021	US 290	AUSTIN CL	1,727	2,420	446 -0.027	453 +0.03	0+00	390+98	NONE	39,098

**Reference markers are for reference purposes only. The project quantities are based on the project limit stations shown on the summary sheets, not the reference markers.

SUMMARY OF ROADWAY SURFACE AREAS

LOCATION NUMBER	HIGHWAY	REMARKS	LANE WIDTHS / DESCRIPTION	STATION FROM	STATION TO	LENGTH (FT)	AVERAGE WIDTH (FT)	SURFACE AREA (SY)
57	FM 1371	BEG SEAL AT US 290 EDGE LINE	2 -11' TRVL LNS W/ 1' SHLDRS	0+00	390+98	39,098	24	104,261
		END SEAL AT AUSTIN CO LINE						
		PRIVATE DRIVEWAYS SURFACE QUANTITY	PLACED AND PAID AS ROADWAY QUANTITY	N/A				299
CSJ 1405-01-021							PROJECT TOTAL	104,560

LOCATION NUMBER	HIGHWAY	CSJ	ITEM 662		ITEM 666										ITEM 677	ITEM 668					ITEM 672			ITEM 6056
			6109	6111	6030	6036	6042	6045	6048	6224	6167	6170	6205	6207	6001	6056	6077	6078	6085	6089	6007	6009	6010	6001
			WK ZN PAV MRK SHT TRM (TAB)		REFL PAV MRK TY I (W)						REFL PAV MRK TY II (W)		REFL PAV MRK TY II (Y)		ELIM EXT PAV MRK & MRKS	PREFAB PAV MRK TY B	PREFAB PAV MRK TY C				REFL PAV MRKR			PREFORMED IN-LANE (TRANS) RUMBLE STRIP
			TY W	TY Y-2	(8") (DOT) (100MIL)	(8") (SLD) (100MIL)	(12") (SLD) (100MIL)	(18") (SLD) (100MIL)	(24") (SLD) (100MIL)	(36") (YLD TRI) (100MIL)	(4") (BRK)	(4") (SLD)	(4") (BRK)	(4") (SLD)	(4")	(ACC PRK) (BL&WH) EA	(W) (ARROW)	(W) (DBL ARROW)	(W) (WORD)	(W) (RRXING)	TY I-C	TY II-A-A	TY II-C-R	
			EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
57	FM 1371	1405-01-021	0	4,165	0	0	0	0	163	0	0	76,832	4,111	58,607	0	0	0	0	0	0	0	939	0	0

SUMMARY OF INTERSECTIONS, DRIVEWAYS, & TURNOUTS

LOCATION NUMBER	HIGHWAY	STATION		DESCRIPTION	LENGTH	WIDTH	RADIUS LT	RADIUS RT	ITEM 530 6003 INTERSECTIONS (SURF TRT)	ITEM 530 6006 PUBLIC DRIVEWAYS (SURF TRT)	ITEM 530 *INFO PRIVATE DRIVEWAYS (SURF TRT)	ITEM 530 6009 TURNOUTS (SURF TRT)	INTERSECTIONS	PUBLIC DRIVEWAYS	PRIVATE DRIVEWAYS	TURNOUTS
					(FT)	(FT)	(FT)	(FT)	(SY)	(SY)	(SY)	(SY)	(EA)	(EA)	(EA)	(EA)
57	FM 1371	8+85	RT	CHADWICK HOGAN	38	37	25	40		210				1		
		24+74	LT	FM 1155	50	30	50	95	424				1			
		26+46	RT	BROWNING	30	26	18	30		116				1		
		34+10	LT	FATHER JARON	25	22	15	15		72				1		
		42+00	RT	BROWNING	20	12	15	15		38				1		
		201+11	LT	SAUNEY CHAPEL	45	17	28	28		123				1		
		202+27	LT	SAUNEY CHAPEL	63	15	5	5		107				1		
		242+34	RT	GIBB CREEK	55	17	0	0		104				1		
		244+01	RT	GIBB CREEK	61	14	21	21		116				1		
		270+37	LT	ARMSTRONG SCHOOL	44	20	0	0		98				1		
		274+46	LT	ARMSTRONG SCHOOL	39	13	0	0		57				1		
		323+08	RT	SKI	81	12	0	0		108				1		
		328+83	LT	WHIDDON	42	22	20	20		122				1		
		INTERSECTIONS (LISTED ABOVE)							424				1			
		PUBLIC DRIVEWAYS (LISTED ABOVE)								1,271				12		
		*PRIVATE DRIVEWAYS (COMMERCIAL @ 9 SY/EA)									99				11	
		*PRIVATE DRIVEWAYS (RESIDENTIAL @ 4 SY/EA)									200				50	
		TURNOUTS (TY I @ 28 SY/EA)										980				35
		TURNOUTS (TY II @ 31 SY/EA)										713				23
CSJ 1405-01-021									424	1,271	299	1,693	1	12	61	58

*For Contractors information only. Private Driveway Strip is placed and paid as roadway quantity. See Surface Area Summary.

PRINT DATE	REVISION DATE
7/28/2021	

Texas Department of Transportation
Bryan District

PROJECT SUMMARY
WASHINGTON COUNTY
LOCATION NO. 57
FM 1371

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	73

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\00491501014\AC-Asphalt Design\07 PROJECT SUMMARY\PROJECT SUMMARY LOCATION WASHINGTON COUNTY NO. 57 FM 1371.dgn

During the planning phase of project development the following environmental permits, issues and commitments have been developed during coordination with resource agencies, local governmental entities and the general public. Any change orders and/or deviations from the final design must be reported to the Engineer prior to the commencement of construction activities. As additional environmental clearances may be required.

I. STORMWATER POLLUTION PREVENTION-CLEAN WATER ACT SECTION 402

TPDES TXR 150000: Stormwater Discharge Permit or Construction General Permit 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.

☐ Required Action ☒ No Action Required

Refer to 2014 TxDOT Standard Specification Items:
7.7.2 Texas Pollutant Discharge Elimination System (TPDES) Permits and Storm Water Pollution Prevention PLans (SWP3)
506 Temporary Erosion, Sedimentation and Environmental Controls
734 Litter Removal
735 Debris Removal
738 Cleaning and Sweeping Highways

II. WORK IN OR NEAR STREAMS, WATER BODIES AND WETLANDS CLEAN WATER ACT SECTIONS 401 AND 404

USACE Permit required for filling, dredging, excavating or other work in any water bodies, rivers, creeks, streams, wetlands or wet areas.
The Contractor must adhere to all of the terms and conditions associated with the following permit(s):

☒ No Permit Required

☐ Nationwide Permit 14 - PCN not Required (less than 1/10th acre waters or wetlands affected)

☐ Nationwide Permit 14 - PCN Required (1/10 to <1/2 acre, 1/3 in tidal waters)

☐ Individual 404 Permit Required

☐ Other Nationwide Permit Required: NWP#

Information regarding the USACE Nationwide Permit Program can be found at:
http://www.swf.usace.army.mil/Missions/Regulatory/Permitting/GeneralPermits.aspx

Refer to 2014 TxDOT Standard Specification Items:
7.7.3 Work in Waters of the United States
7.7.6 Project Specific Locations
496 Removing Structures
506 Temporary Erosion, Sedimentation and Environmental Controls
506.4.3.4 Restricted Activities and Required Precautions

III. CULTURAL RESOURCES

Refer to 2014 TxDOT Standard Specification Item 7.7.1 Cultural Resources, in the event historical issues or archeological artifacts are found during construction. Upon discovery of archeological artifacts (bones, burnt rock, flint, pottery, etc.) immediately cease work in the vicinity and contact the Engineer.

☐ Required Action ☒ No Action Required

IV. VEGETATION RESOURCES

Preserve native vegetation to the extent practical.

☒ Required Action ☐ No Action Required

Action No.

1. Tree removal to be done in accordance with the Migratory Bird Treaty Act (see Section V)

Refer to 2014 TxDOT Standard Specification Items:
160 Topsoil
161 Compost
162 Sodding for Erosion Control
164 Seeding for Erosion Control
166 Fertilizer
168 Vegetative Watering
169 Soil Retention Blankets
170 Irrigation System
180 Wildflower Seeding
192 Landscape Planting
193 Landscape Establishment
506 Temporary Erosion, Sedimentation, and Environmental Controls
730 Roadside Mowing
751 Landscape Maintenance
752 Tree and Brush Removal

V. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECIES, CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES AND MIGRATORY BIRDS.

☒ Required Action ☐ No Action Required

Action No.

1. Do not kill snakes or other animals!

2. Do not destroy nests on structures within the project limits.

   Temporarily prevent the building of nests on any structures that require work within the project limits during the construction timeframe.

   This can be accomplished by application of bird repellant gel, netting, or removal by hand every 3-4 days.

   The nesting/breeding season for migratory birds is March 1 - September 1.

Under the Migratory Bird Treaty Act (MBTA), it is unlawful by any means or manner, to pursue, hunt, take, capture, [or] kill any migratory birds except as permitted by regulation (16 U.S.C. 703-704). Neither the statute nor its implementing regulations (Title 50, Code of Federal Regulations, Parts 10, 13, 21) exempt unintentional take of migratory birds. The unauthorized take (e.g. killing, capturing, or collecting) of migratory birds is a strict liability criminal offense that does not require knowledge or specific intent on the part of the offender. Even when engaged in an otherwise lawful activity for which the intent is not the killing of migratory birds, a violation may be committed.

3. If caves or sinkholes are discovered, cease work in the immediate area to verify the presence or absence of wildlife.

4. BMPs for T and E species will be discussed at the preconstruction meeting.

The Bryan District Environmental Section can be contacted at (979) 778-9766 to assist with the removal of wildlife that will not leave on their own with gentle persuasion.

Refer to 2014 TxDOT Standard Specification Item:
7.7.6 Project Specific Locations

VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES

General (applies to all projects):

Comply with the Hazard Communication Act (the Act) for personnel who will be working with hazardous materials by conducting safety meetings prior to beginning construction and making workers aware of potential hazards in the workplace. Ensure that all workers are provided with personal protective equipment appropiate for any hazardous materials used. Obtain and keep on-site Material Safety Data Sheets (MSDS) for all hazardous products used on the project, which may include, but are not limited to the following categories: Paints, acids, solvents, asphalt products, chemical additives, fuels and concrete curing compounds or additives. Provide protected storage, off bare ground and covered, for products which may be hazardous. Maintain product labelling as required by the Act.

Maintain an adequate supply of on-site spill response materials, as indicated in the MSDS. In the event of a spill, take actions to mitigate the spill as indicated in the MSDS, in accordance with safe work practices, and contact the Engineerimmediately. The Contractor shall be responsiblefor the proper containment and cleanup of all product spills.

Contact the Engineer if any of the follwing are detected:
* Dead or distressed vegetation (not identified as normal)
* Trash piles, drums, canister, barrels, etc.
* Undesirable smells or odors
* Evidence of leaching or seepage of substances

Does the project involve any bridge class structure rehabilitation or replacements (bridge class structures not including box culverts)?

☐ Yes ☒ No

If "No", then no further action is required.
If "Yes", then TxDOT is responsible for completing asbestos assessment/inspection.

Are the results of the asbestos inspection positive (is asbestos present)?

☐ Yes ☒ No

If "Yes", then TxDOT must retain a DSHS licensed asbestos consultant to assist with the notification, develop abatement/mitigation procedures, and perform management activities as necessary. The notification form to DSHS must be postmarked at least 15 working days prior to scheduled demolition.

If "No", then TxDOT is still required to notifiy DSHS 15 working days prior to any scheduled demolition.

In either case, the Contractor is responsible for providing the date(s) for abatement activities and/or demolition with careful coordination between the Engineer and asbestos consultant in order to minimize construction delays and subsequent claims.

Any other evidence indicating possible hazardous materials or contamination discoverd on site. Hazardous Materials or Contamination Issues Specific to this Project:

☒ Required Action ☐ No Action Required

Action No.

1. The Clean Water Act, in part, requires that any spill of oil that could enter a waterway, as defined by the Act, and that violates applicable water quality standards or causes a film or sheen on water require reporting to the TCEQ and local authorities.
   Contact the Bryan District Environmental Section at 979-778-9766.

   If potentially hazardous material and/or contaminated media (i.e. soil, groudwater, surface water, sediment, building materials) are unexpectedly encountered during construction, immediately cease work in the vicinity and contact the Engineer.

   Refer to 2014 TxDOT Standard Specification Items:
   6.10 Hazardous Materials
   7.12 Responsibility for Hazardous Materials

VII. OTHER ENVIRONMENTAL ISSUES

☐ Required Action ☒ No Action Required

Refer to 2014 TxDOT Standard Specification Items:
7.7.6 Project Specific Locations
751 Landscape Maintenance

Contacts:

Mr. John D. Moravec
Environmental Coordinator
Texas Department of Transportation
Bryan District
2591 N. Earl Rudder Freeway
Bryan, TX 77803
Phone: (979) 778-9766
Fax: (979) 778-9702
e-mail: John.Moravec@txdot.gov

PRINT DATE	REVISION DATE
5/19/2021	02/12/2015

Texas Department of Transportation
Bryan District

ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS (EPIC)

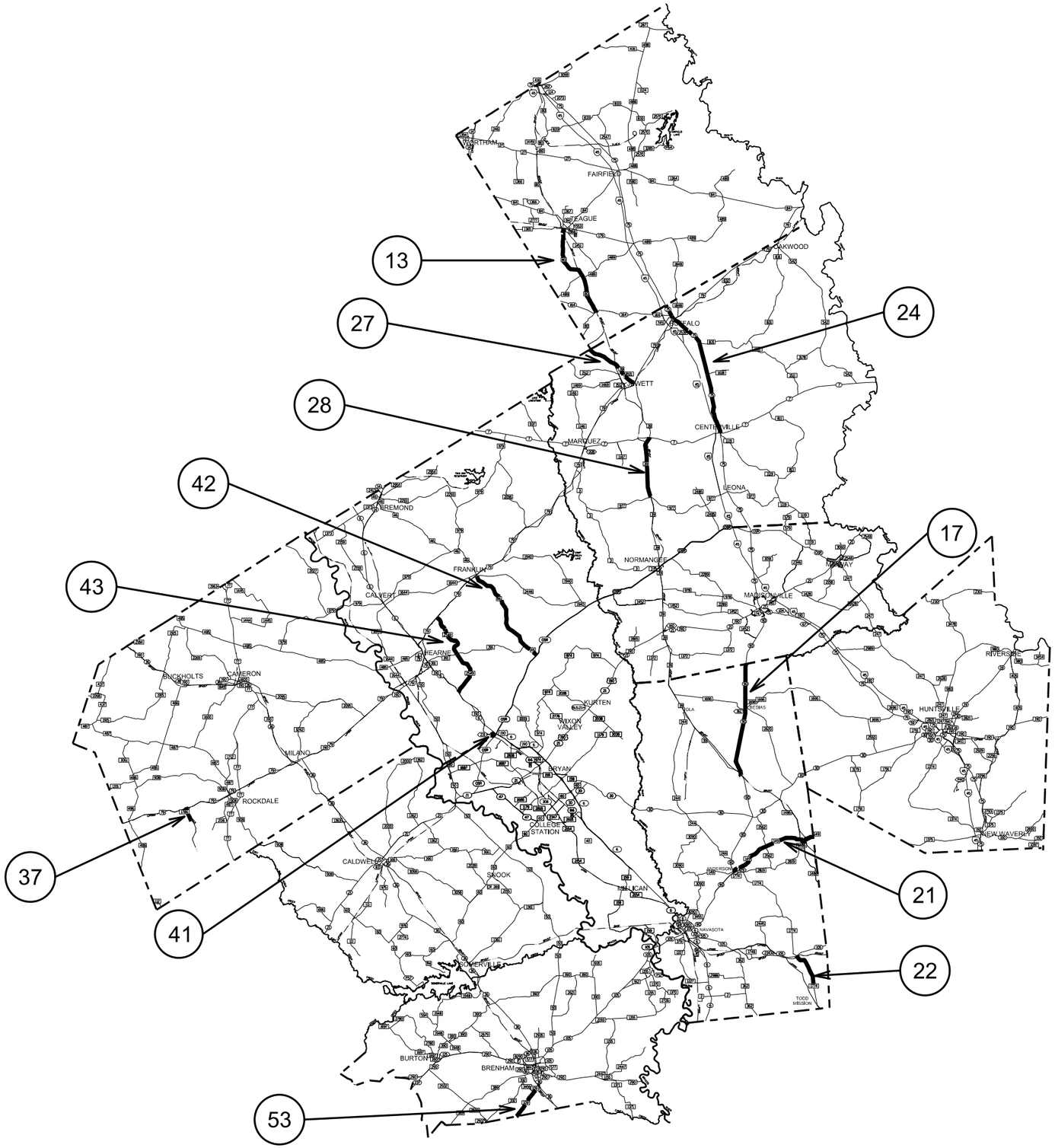
FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	74

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\09 ENV\EPIC.DGN



REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\06 RAILROAD\RAILROAD CROSSING PROJECT LOCATION MAP.dgn

PRINT DATE	REVISION DATE
5/19/2021	

Texas Department of Transportation
Bryan District

RAILROAD CROSSING PROJECT LOCATION MAP BRYAN DISTRICT

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY	
TEXAS	BRY	ROBERTSON, ETC.	
CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	75

BNSF RAILROAD CROSSING LOCATIONS

Location #	County	CSJ	RRX DOT #	Highway Type & Number	Crossing Position	Primary Operating Railroad	RR Mile Post	RR Subdivision	City or Municipality	# of Regularly Scheduled Trains per Day	# of Switching Movements per Day	Speed of Trains (mph)	ADT (yr, vpd)	Posted Speed Limit (mph)
13	FREESTONE	0612-01-052	597180A	FM 80	AT GRADE	BNSF Railway Co.	197.28	HOUSTON	FREESTONE	8	0	40	-	-
13	FREESTONE	0612-01-052	597181G	FM 80	AT GRADE	BNSF Railway Co.	197.84	HOUSTON	FREESTONE	8	0	40	2010, 1950	65
13	FREESTONE	0612-01-052	597189L	FM 80	AT GRADE	BNSF Railway Co.	203.95	HOUSTON	TEAGUE	8	0	40	2011, 2500	55
17	GRIMES	0315-02-057	597131D	SH 90	RR UNDER	BNSF Railway Co.	131.08	HOUSTON	SINGLETON	6	0	40	2011, 2200	60
21	GRIMES	0720-01-043	597123L	FM 149	AT GRADE	BNSF Railway Co.	119.42	HOUSTON	RICHARDS	6	0	40	2014, 9842	45
22	GRIMES	1400-02-028	0243313H	FM 1774	AT GRADE	BNSF Railway Co.	43.415	CONROE	NAVASOTA	8	0	40	20,141,085	70
27	LEON	0643-01-065	597173P	FM 39	RR OVER	BNSF Railway Co.	186.588	HOUSTON	JEWETT	8	0	40	2010, 2900	70
28	LEON	0643-01-066	597164R	FM 39	RR UNDER	BNSF Railway Co.	175	HOUSTON	JEWETT	8	0	40	2010, 2700	70
28	LEON	0643-01-066	597159U	FM 39	AT GRADE	BNSF Railway Co.	168.46	HOUSTON	NORMANGEE	8	0	40	2010, 600	55
37	MILAM	1834-01-012	446532M	FM 1786	RR OVER	BNSF Railway Co.	124.97	AUSTIN SUB	ROCKDALE	23	0	60	2011, 2200	70
53	WASHINGON	0187-06-028	022837M	FM 109	AT GRADE	BNSF Railway Co.	123.042	GALVESTON	BRENHAM	20	0	55	2014, 7497	40

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\004915\014\AC-Asphalt Design\06 RAILROAD\BNSF LOCATION INFORMATION TABLE.dgn

PRINT DATE	REVISION DATE
5/19/2021	

Texas Department of Transportation *Bryan District*

BNSF RAILROAD CROSSING LOCATION INFORMATION TABLE

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	76

REV DATE: 2-12-2015
CSJ: 0049-15-014

FILENAME: G:\0049\15\014\AC-Asphalt Design\06 RAILROAD\BNSF RAILROAD SCOPE OF WORK.dgn

I. WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED)

DOT #: SEE LOCATION CHART
Crossing Type: SEE LOCATION CHART
RR Company Owning Track at Crossing: BNSF Railway
Operating RR Company at Track: BNSF Railway
RR MP: SEE LOCATION CHART
RR Subdivision: SEE LOCATION CHART
City: SEE LOCATION CHART
County: SEE LOCATION CHART
CSJ at this Crossing: SEE LOCATION CHART
Highway/Roadway name crossing the railroad: SEE LOCATION CHART
# of regularly scheduled trains per day at this crossing: SEE LOCATION CHART
# of switching movements per day at this crossing: SEE LOCATION CHART
% of estimated contract cost of work within railroad ROW: .1 % per location

Scope of Work at this Crossing to Be Performed by State Contractor:

1. Furnish and install barricades.
2. Seal coat existing pavement to the edge of concrete planking.

Scope of Work at this Crossing to Be Performed by Railroad Company:

N/A

** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian, or Closed/Abandoned

II. OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)

N/A

III. FLAGGING & INSPECTION

of Days of Railroad Flagging Expected: 1 per each location

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
- [x] 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
- [x] 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
- [ ] OTHERS _____

Contractor must incorporate Construction Inspection into anticipated construction schedule.

- [x] Not Required
- [ ] Required: Contact Information for Construction Inspection:

IV. CONSTRUCTION WORK TO BE PERFORMED BY THE RAILROAD

On this project, construction work to be performed by a railroad company is:

- [ ] Required
- [x] Not Required

Coordinate with TxDOT for any work to be performed by the Railroad Company. TxDOT must issue a work order for any work done by the Railroad Company prior to the work being performed.

V. RAILROAD INSURANCE REQUIREMENTS

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.

Type of Insurance	Amount of Coverage (Minimum)
Workers Compensation	$500,000 / $500,000 / $500,000
Commercial General Liability	$2,000,000 / $4,000,000
Business Automobile	$2,000,000 combined single limit
Railroad Protective Liability	
[ ] Not Required	
[x] Non - Bridge Projects	$2,000,000 / $6,000,000
[ ] Bridge Projects	$5,000,000 / $10,000,000
[ ] Other	

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

On this project, an ROE agreement is:

- [x] Not Required
- [ ] 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:

- [x] Not Required
- [ ] Required

See Item 5, Article 8.1 for more details.

VIII. 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.

IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency
Call BNSF Railway (BNSF)
Railroad Emergency Line at 800-832-5452 Option 1
For location and RR Milepost: See Railroad Crossing Location Information Table

Texas Department of Transportation — Rail Division

RAILROAD SCOPE OF WORK FOR BNSF RAILWAY

BRYAN DISTRICT
AC SEAL COAT

FILE: RR Scope of Work.dgn	DN: TxDOT	CK:	DW:	CK:
©TxDOT June 2014	CONT	SECT	JOB	HIGHWAY
REVISIONS	0049	15	014, ETC.	SH 14, ETC.
3/2020	DIST	COUNTY		SHEET NO.
	BRY	ROBERTSON, ETC.		77

UNION PACIFIC RAILROAD CROSSING LOCATIONS														
Location #	County	CSJ	RRX DOT #	Highway Type & Number	Crossing Position	Primary Operating Railroad	RR Mile Post	RR Subdivision	City or Municipality	# of Regularly Scheduled Trains per Day	# of Switching Movements per Day	Speed of Trains (mph)	ADT (yr, vpd)	Posted Speed Limit (mph)
24	LEON	0166-04-050	432355U	SH 75	RR OVER	Union Pacific Railroad	35.220	HEARNE SUB	BUFFALO	10	0	60	2011, 3200	40
41	ROBERTSON	0475-05-007	743184E	SS 231	AT GRADE	Union Pacific Railroad	107.670	BRYAN SUB	HEARNE	4	0	40	2010, 310	55
42	ROBERTSON	0540-02-028	432247X	FM 46	AT GRADE	Union Pacific Railroad	76.83	HEARNE SUB	FRANKLIN	8	0	60	2010, 4400	30
43	ROBERTSON	2479-01-022	7431779H	FM 2549	AT GRADE	Union Pacific Railroad	114-710	BRYAN SUB	HEARNE	4	0	40	2010, 1150	70
43	ROBERTSON	2479-01-022	432260L	FM2549	AT GRADE	Union Pacific Railroad	83.88	HEARNE SUB	HEARNE	8	0	60	2010, 270	55

REV DATE: 2-12-2015
CSJ: 0049-15-014

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PRINT DATE	REVISION DATE
5/19/2021	

Texas Department of Transportation
Bryan District

UNION PACIFIC RAILROAD CROSSING LOCATION INFORMATION TABLE

FED. RD. DIV. NO.	PROJECT NUMBER	HIGHWAY NUMBER
6		SH 14, ETC.

STATE	DISTRICT	COUNTY
TEXAS	BRY	ROBERTSON, ETC.

CONTROL	SECTION	JOB	SHEET NO.
0049	15	014, ETC.	78

I. WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED)

DOT #: SEE LOCATION CHART
Crossing Type: AT GRADE
RR Company Owning Track at Crossing: UNION PACIFIC RAILROAD
Operating RR Company at Track: UNION PACIFIC RAILROAD
RR MP: SEE LOCATION CHART
RR Subdivision: SEE LOCATION CHART
City: SEE LOCATION CHART
County: SEE LOCATION CHART
CSJ at this Crossing: SEE LOCATION CHART
Highway/Roadway name crossing the railroad: SEE LOCATION CHART
# of regularly scheduled trains per day at this crossing: SEE LOCATION CHART
# of switching movements per day at this crossing: SEE LOCATION CHART
% of estimated contract cost of work within railroad ROW: .1 % per location

Scope of Work at this Crossing to Be Performed by State Contractor:

1. Furnish and install barricades.
2. Seal coat existing pavement to the edge of concrete planking.

Scope of Work at this Crossing to Be Performed by Railroad Company:

N/A

** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian, or Closed/Abandoned

II. OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)

N/A

III. FLAGGING & INSPECTION

of Days of Railroad Flagging Expected: 1 per each location

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
- [x] 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:

- [x] UPRR - UP.info@railpros.com
  Call Center 877-315-0513, Select #1 for flagging
- [ ] 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
- [ ] OTHERS _____

Contractor must incorporate Construction Inspection into anticipated construction schedule.

- [x] Not Required
- [ ] Required: Contact Information for Construction Inspection:

IV. CONSTRUCTION WORK TO BE PERFORMED BY THE RAILROAD

On this project, construction work to be performed by a railroad company is:

- [ ] Required
- [x] Not Required

Coordinate with TxDOT for any work to be performed by the Railroad Company. TxDOT must issue a work order for any work done by the Railroad Company prior to the work being performed.

V. RAILROAD INSURANCE REQUIREMENTS

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.

Type of Insurance	Amount of Coverage (Minimum)
Workers Compensation	$500,000 / $500,000 / $500,000
Commercial General Liability	$2,000,000 / $4,000,000
Business Automobile	$2,000,000 combined single limit
Railroad Protective Liability	
[ ] Not Required	
[x] Non - Bridge Projects	$2,000,000 / $6,000,000
[ ] Bridge Projects	$5,000,000 / $10,000,000
[ ] Other	

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

On this project, an ROE agreement is:

- [ ] Not Required
- [x] 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: UNION PACIFIC RAILROAD

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:

- [x] Not Required
- [ ] Required

See Item 5, Article 8.1 for more details.

VIII. 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.

IX. EMERGENCY NOTIFICATION

**In Case of Railroad Emergency
Call Union Pacific Railroad (UPRR)
Railroad Emergency Line at 888-877-7267
For location and RR Milepost: See Railroad Crossing Location Information Table**

Texas Department of Transportation | Rail Division

RAILROAD SCOPE OF WORK
UNION PACIFIC RAILROAD
BRYAN DISTRICT
AC SEAL COAT

FILE: RR Scope of Work.dgn	DN: TxDOT	CK:	DW:	CK:		
©TxDOT June 2014	CONT	SECT	JOB	HIGHWAY		
REVISIONS	0049	15	014, ETC.	SH 14, ETC.		
3/2020	DIST	COUNTY		SHEET NO.		
	BRY	ROBERTSON, ETC.		79		

REV DATE: 2-12-2015
CSJ: 0049-15-014

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PART 1 - GENERAL

1.01 DESCRIPTION

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 within the project may be built by the Railroad. If applicable, 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 centerline and secure all equipment. Additional allowances 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 time, in either direction. Become familiar with the train 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. railroad 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:

1. 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 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 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:
1. Exactly what the work entails.
2. The days and hours that work will be performed.
3. The exact location of work, and proximity to the tracks.
4. The type of window requested and the amount of time requested.
5. 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 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.

3.04 INSURANCE

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.

"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."

B. Know and follow the "Contractor's Right of Entry Agreement" EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

3.06 COOPERATION

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.

3.07 MINIMUM CONSTRUCTION CLEARANCES FOR FALSEWORK AND OTHER TEMPORARY STRUCTURES

Abide by the following minimum temporary clearances during the course of construction:
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.

3.08 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.

Texas Department of Transportation — Rail Division

RAILROAD REQUIREMENTS FOR NON-BRIDGE CONSTRUCTION PROJECTS

FILE:	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT October 2018	CONT	SECT	JOB	HIGHWAY
REVISIONS March 2020	0049	15	014, ETC.	SH 14, ETC.
	DIST	COUNTY		SHEET NO.
	BRY	ROBERTSON, ETC.		80

REV DATE: 2-12-2015
CSJ: 0049-15-014
FILENAME: G:\0049\15\014\AC-Asphalt Design\06 RAILROAD\RAILROAD REQUIREMENTS FOR NON-BRIDGE CONSTRUCTION PROJECTS.dgn

3.09 MAINTENANCE OF RAILROAD FACILITIES

A. Maintain all ditches and drainage structures free of silt or other obstructions resulting from Contractor's operations. Repair eroded areas 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, site inspections may be performed by the Railroad Designated Representative at significant points during construction, including the following if applicable:
   1. Pre-construction meetings.
   2. Pile driving/drilling of caissons or drilled shafts.
   3. Reinforcement and concrete placement for railroad bridge substructure and/or superstructure.
   4. Erection of precast concrete or steel bridge superstructure.
   5. 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 of 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 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 safe 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.

Texas Department of Transportation — Rail Division

RAILROAD REQUIREMENTS FOR NON-BRIDGE CONSTRUCTION PROJECTS

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REVISIONS March 2020	0049	15	014, ETC.	SH 14, ETC.
	DIST	COUNTY		SHEET NO.
	BRY	ROBERTSON, ETC.		81

REV DATE: 2-12-2015
CSJ: 0049-15-014
FILENAME: G:\00491501\4\AC-Asphalt Design\06 RAILROAD\RAILROAD REQUIREMENTS FOR NON-BRIDGE CONSTRUCTION PROJECTS.dgn

BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

1. The Barricade and Construction Standard Sheets (BC sheets) are intended 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).

2. The development and design of the Traffic Control Plan (TCP)is the responsibility of the Engineer.

3. 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.

6. 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.

7. 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.

9. The temporary traffic control devices shown in the illustrations of the BC sheets are examples. As necessary, the Engineer will determine the most appropriate traffic control devices to be used.

10. As shown on BC(2), the OBEY WARNING SIGNS STATE LAW sign, STAY ALERT TALK OR TEXT LATER (see Sign Detail G20-10T) and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shall be erected in advance of the CSJ limits. However, the TRAFFIC FINES DOUBLE sign will not be required on projects consisting solely of mobile operation work, such as striping or milling edgeline rumble strips. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK signs shall be erected at or near the CSJ limits.

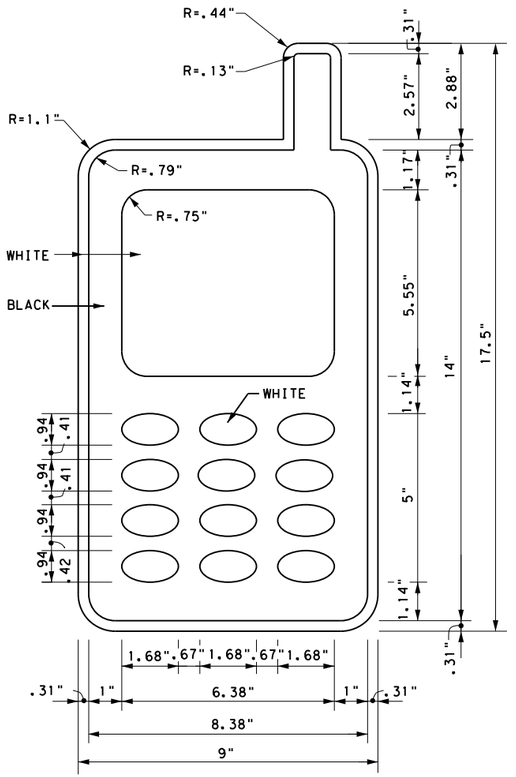
11. Except for devices required by Note 10, traffic control devices should be in place only while work is actually in progress or a definite need exists.

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 APPAREL 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.



3.0" Radius, 1.25" Border, 0.75" Indent, Black on Yellow;
[STAY ALERT] Font: D
3.0" Radius, 1.25" Border, 0.75" Indent, Black on Orange;
[TALK OR TEXT LATER] Font: C specified length;

SIGN DETAIL (G20-10T)

Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources and may be found on-line at the web address given below or by contacting:

Texas Department of Transportation
Traffic Operations Division - TE
Phone (512) 416-3118

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

Texas Department of Transportation | Traffic Operations Division Standard

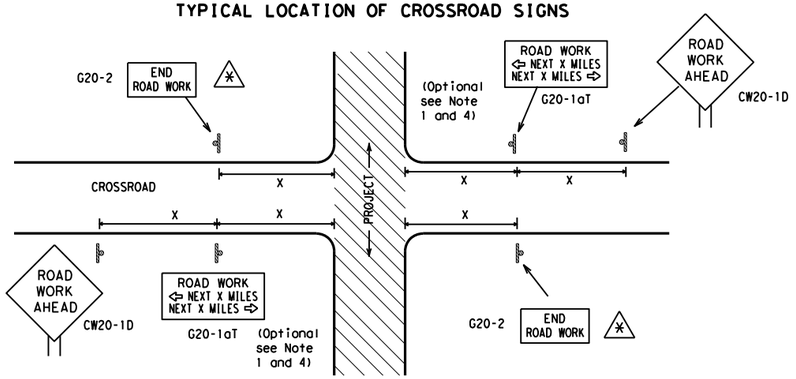
BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS

BC(1)-14

FILE: bc-14.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS 4-03 5-10 8-14 9-07 7-13	0049	15	014, ETC.	SH 14, ETC.
	DIST	COUNTY		SHEET NO.
	BRY	ROBERTSON, ETC.		82

DATE: 8/5/2021
FILE: G:\0049\15\0141\AC-Asphalt Design\10 STANDARDS\bc-14.dgn

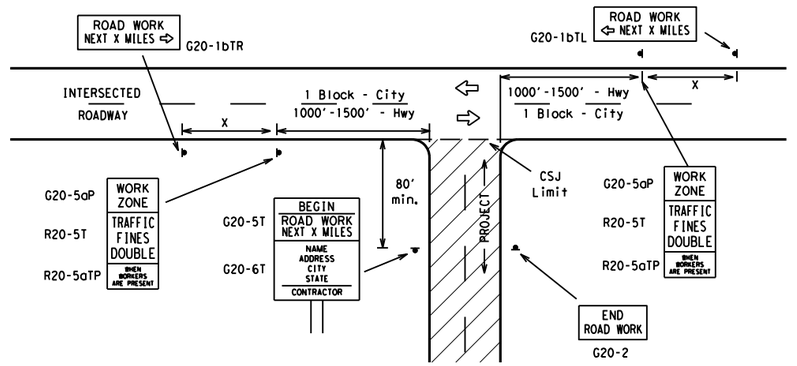
TYPICAL LOCATION OF CROSSROAD SIGNS



✱ May be mounted on back of "ROAD WORK AHEAD"(CW20-1D) sign with approval of Engineer. (See note 2 below)

1. The typical minimum signing on a crossroad approach should be a "ROAD WORK AHEAD" (CW20-1D)sign and a (G20-2) "END ROAD WORK" sign, unless noted otherwise in plans.
2. The Engineer may use the reduced size 36" x 36" ROAD WORK AHEAD (CW20-1D) sign mounted back to back with the reduced size 36" x 18" "END ROAD WORK"(G20-2) sign on low volume crossroads (see Note 4 under "Typical Construction Warning Sign Size and Spacing"). See the "Standard Highway Sign Designs for Texas" manual for sign details. The Engineer may omit the advance warning signs on low volume crossroads. The Engineer will determine whether a road is low volume. This information shall be shown in the plans.
3. Based on existing field conditions, the Engineer/Inspector may require additional signs such as FLAGGER AHEAD, LOOSE GRAVEL, or other appropriate signs. When additional signs are required, these signs will be considered part of the minimum requirements. The Engineer/Inspector will determine the proper location and spacing of any sign not shown on the BC sheets, Traffic Control Plan sheets or the Work Zone Standard Sheets.
4. The "ROAD WORK NEXT X MILES"(G20-1aT)sign shall be required at high volume crossroads to advise motorists of the length of construction in either direction from the intersection. The Engineer will determine whether a roadway is considered high volume.
5. Additional traffic control devices may be shown elsewhere in the plans for higher volume crossroads.
6. When work occurs in the intersection area, appropriate traffic control devices, as shown elsewhere in the plans or as determined by the Engineer/Inspector, shall be in place.

T-INTERSECTION



CSJ LIMITS AT T-INTERSECTION

1. The Engineer will determine the types and location of any additional traffic control devices, such as a flagger and accompanying signs, or other signs, that should be used when work is being performed at or near an intersection.
2. If construction closes the road at a T-intersection the Contractor shall place the "CONTRACTOR NAME"(G20-6T) sign behind the Type 3 Barricades for the road closure (see BC(10) also). The "ROAD WORK NEXT X MILES" left arrow(G20-1bTL) and "ROAD WORK NEXT X MILES" right arrow (G20-1bTR)" signs shall be replaced by the detour signing called for in the plans.

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" x 48"	48" x 48"
CW1, CW2, CW7, CW8, CW9, CW11, CW14	36" x 36"	48" x 48"
CW3, CW4, CW5, CW6, CW8-3, CW10, CW12	48" x 48"	48" x 48"

SPACING

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]

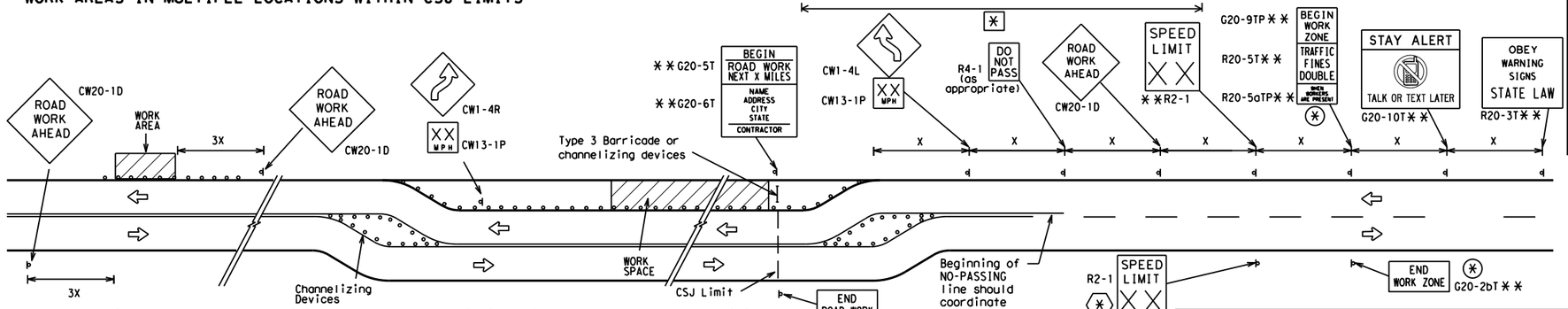
✱ For typical sign spacings on divided highways, expressways and freeways, see Part 6 of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) typical application diagrams or TCP Standard Sheets.

△ 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. 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.

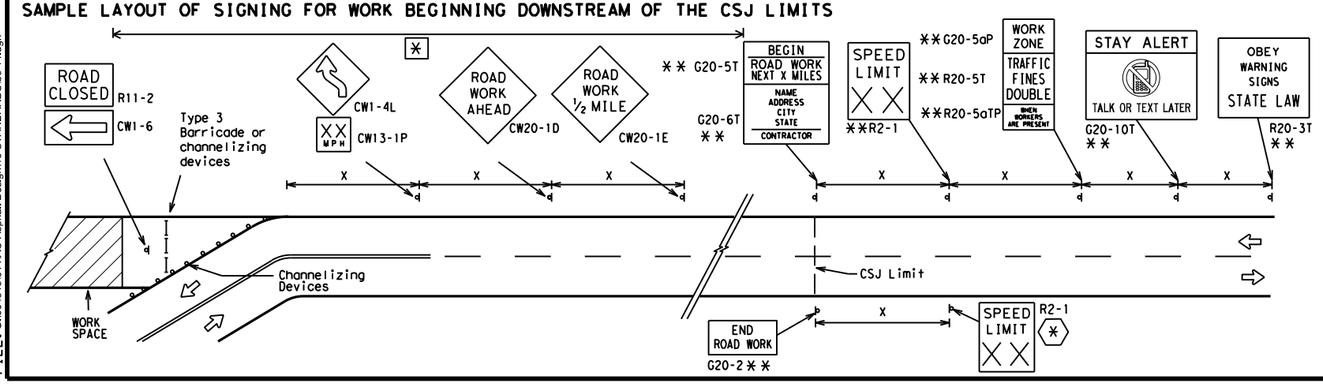
WORK AREAS IN MULTIPLE LOCATIONS WITHIN CSJ LIMITS



When extended distances occur between minimal work spaces, the Engineer/Inspector should ensure additional "ROAD WORK AHEAD"(CW20-1D)signs are placed in advance of these work areas to remind drivers they are still within the project limits. See the applicable TCP sheets for exact location and spacing of signs and channelizing devices.

SAMPLE LAYOUT OF SIGNING FOR WORK BEGINNING AT THE CSJ LIMITS

SAMPLE LAYOUT OF SIGNING FOR WORK BEGINNING DOWNSTREAM OF THE CSJ LIMITS



NOTES

The Contractor shall determine the appropriate distance to be placed on the G20-1 series signs and "BEGIN ROAD WORK NEXT X MILES"(G20-5T)sign for each specific project. This distance shall replace the "X" and shall be rounded to the nearest whole mile with the approval of the Engineer. No decimals shall be used.

✱ The "BEGIN WORK ZONE"(G20-9TP) and "END WORK ZONE" (G20-2bT) shall be used as shown on the sample layout when advance signs are required outside the CSJ Limits. They inform the motorist of entering or leaving a part of the work zone lying outside the CSJ Limits where traffic fines may double if workers are present.

✱✱ Required CSJ Limit signing. See Note 10 on BC(1). TRAFFIC FINES DOUBLE signs will not be required on projects consisting solely of mobile operations work.

▣ Area for placement of "ROAD WORK AHEAD" (CW20-1D)sign and other signs or devices as called for on the Traffic Control Plan.

✱ Contractor will install a regulatory speed limit sign at the end of the work zone.

LEGEND

⊢⊣	Type 3 Barricade
○○○	Channelizing Devices
▬	Sign
X	See Typical Construction Warning Sign Size and Spacing chart or the TMUTCD for sign spacing requirements.

Texas Department of Transportation

Traffic Operations Division Standard

BARRICADE AND CONSTRUCTION PROJECT LIMIT

BC(2)-14

FILE: bc-14.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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REVISIONS	0049	15	014, ETC.	SH 14, ETC.
9-07 8-14	DIST	COUNTY		SHEET NO.
7-13	BRY	ROBERTSON, ETC.		83

DATE: 8/5/2021
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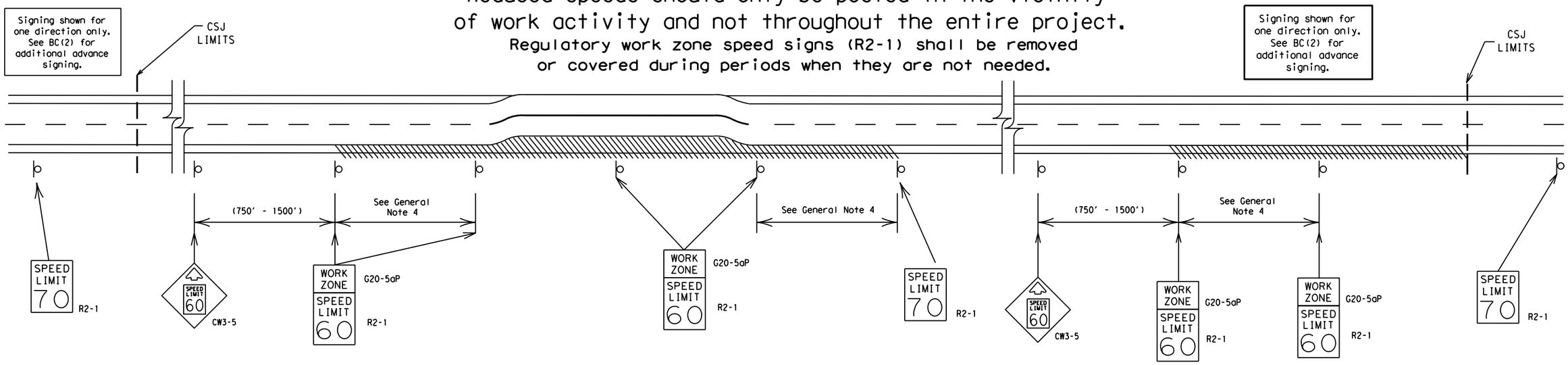
TYPICAL APPLICATION OF WORK ZONE SPEED LIMIT SIGNS

Work zone speed limits shall be regulatory, established in accordance with the "Procedures for Establishing Speed Zones," and approved by the Texas Transportation Commission, or by City Ordinance when within Incorporated City Limits.

Reduced speeds should only be posted in the vicinity of work activity and not throughout the entire project.

Regulatory work zone speed signs (R2-1) shall be removed or covered during periods when they are not needed.



GUIDANCE FOR USE:

LONG/INTERMEDIATE TERM WORK ZONE SPEED LIMITS

This type of work zone speed limit should be included on the design of the traffic control plans when restricted geometrics with a lower design speed are present in the work zone and modification of the geometrics to a higher design speed is not feasible.

Long/Intermediate Term Work Zone Speed Limit signs, when approved as described above, should be posted and visible to the motorist when work activity is present. Work activity may also be defined as a change in the roadway that requires a reduced speed for motorists to safely negotiate the work area, including:

a) rough road or damaged pavement surface
b) substantial alteration of roadway geometrics (diversions)
c) construction detours
d) grade
e) width
f) other conditions readily apparent to the driver

As long as any of these conditions exist, the work zone speed limit signs should remain in place.

SHORT TERM WORK ZONE SPEED LIMITS

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 travelled 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)).

GENERAL NOTES

1. Regulatory work zone speed limits should be used only for sections of construction projects where speed control is of major importance.
2. Regulatory work zone speed limit signs shall be placed on supports at a 7 foot minimum mounting height.
3. Speed zone signs are illustrated for one direction of travel and are normally posted for each direction of travel.
4. Frequency of work zone speed limit signs should be:
   40 mph and greater 0.2 to 2 miles
   35 mph and less 0.2 to 1 mile
5. Regulatory speed limit signs shall have black legend and border on a white reflective background (See "Reflective Sheeting" on BC(4)).
6. Fabrication, erection and maintenance of the"ADVANCE SPEED LIMIT"(CW3-5)sign, "WORK ZONE"(G20-5aP) plaque and the "SPEED LIMIT"(R2-1)signs shall not be paid for directly, but shall be considered subsidiary to Item 502.
7. Turning signs from view, laying signs over or down will not be allowed, unless as otherwise noted under "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.

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SHEET 3 OF 12

Texas Department of Transportation | Traffic Operations Division Standard

BARRICADE AND CONSTRUCTION WORK ZONE SPEED LIMIT

BC(3)-14

FILE: bc-14.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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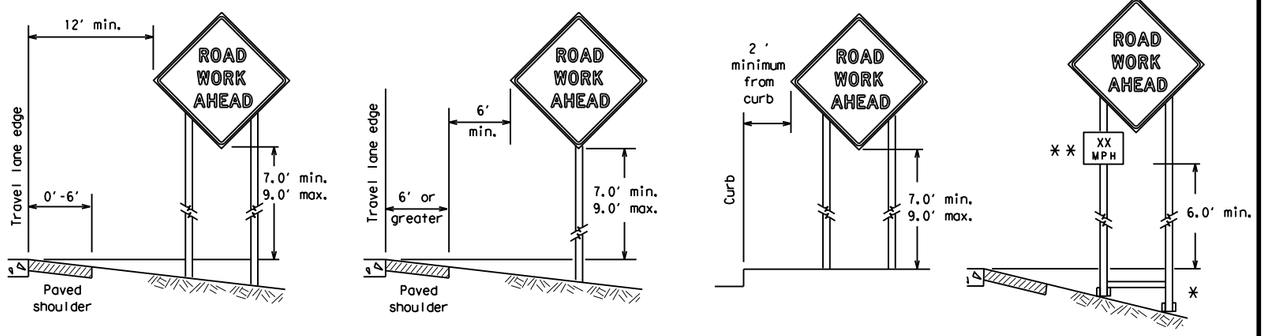
REVISIONS 9-07 8-14 7-13	0049	15	014, ETC.	SH 14, ETC.
	DIST	COUNTY		SHEET NO.
	BRY	ROBERTSON, ETC.		84

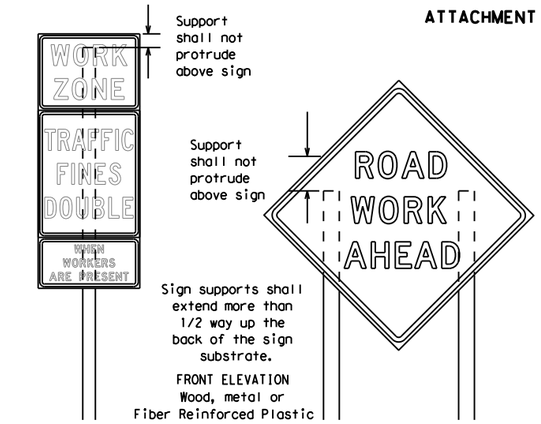
TYPICAL MINIMUM CLEARANCES FOR LONG TERM AND INTERMEDIATE TERM SIGNS



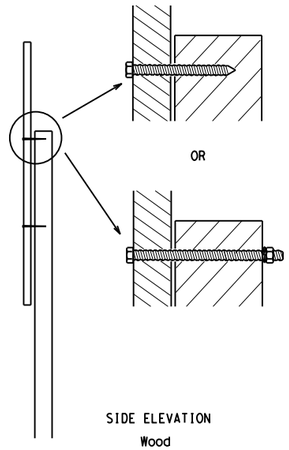
* When placing skid supports on unlevel ground, the leg post lengths must be adjusted so the sign appears straight and plumb. Objects shall NOT be placed under skids as a means of leveling.

** When plaques are placed on dual-leg supports, they should be attached to the upright nearest the travel lane. Supplemental plaques (advisory or distance) should not cover the surface of the parent sign.

ATTACHMENT FOR SIGN SUPPORTS



Splicing embedded perforated square metal tubing in order to extend post height will only be allowed when the splice is made using four bolts, two above and two below the spice point. Splice must be located entirely behind the sign substrate, not near the base of the support. Splice insert lengths should be at least 5 times nominal post size, centered on the splice and of at least the same gauge material.

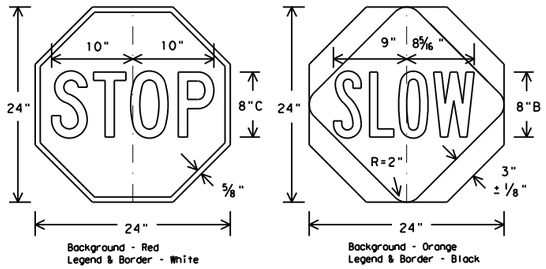


Attachment to wooden supports will be by bolts and nuts or screws. Use TxDOT's or manufacturer's recommended procedures for attaching sign substrates to other types of sign supports

Nails shall NOT be allowed. Each sign shall be attached directly to the sign support. Multiple signs shall not be joined or spliced by any means. Wood supports shall not be extended or repaired by splicing or other means.

STOP/SLOW PADDLES

1. STOP/SLOW paddles are the primary method to control traffic by flaggers. The STOP/SLOW paddle size should be 24" x 24" as detailed below.
2. When used at night, the STOP/SLOW paddle shall be retroreflectorized.
3. STOP/SLOW paddles may be attached to a staff with a minimum length of 6' to the bottom of the sign.
4. Any lights incorporated into the STOP or SLOW paddle faces shall only be as specifically described in Section 6E.03 Hand Signaling Devices in the TMUTCD.



CONTRACTOR REQUIREMENTS FOR MAINTAINING PERMANENT SIGNS WITHIN THE PROJECT LIMITS

1. Permanent signs are used to give notice of traffic laws or regulations, call attention to conditions that are potentially hazardous to traffic operations, show route designations, destinations, directions, distances, services, points of interest, and other geographical, recreational, or cultural information. Drivers proceeding through a work zone need the same, if not better route guidance as normally installed on a roadway without construction.
2. When permanent regulatory or warning signs conflict with work zone conditions, remove or cover the permanent signs until the permanent sign message matches the roadway condition.
3. When existing permanent signs are moved and relocated due to construction purposes, they shall be visible to motorists at all times.
4. If existing signs are to be relocated on their original supports, they shall be installed on crashworthy bases as shown on the SMD Standard sheets. The signs shall meet the required mounting heights shown on the BC Sheets or the SMD Standards. This work should be paid for under the appropriate pay item for relocating existing signs.
5. If permanent signs are to be removed and relocated using temporary supports, the Contractor shall use crashworthy supports as shown on the BC sheets or the CWZTCD. The signs shall meet the required mounting heights shown on the BC Sheets or the SMD Standards during construction. This work should be paid for under the appropriate pay item for relocating existing signs.
6. Any sign or traffic control device that is struck or damaged by the Contractor or his/her construction equipment shall be replaced as soon as possible by the Contractor to ensure proper guidance for the motorists. This will be subsidiary to Item 502.

GENERAL NOTES FOR WORK ZONE SIGNS

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

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

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

SIGN MOUNTING HEIGHT

1. 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.
2. 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 the ground.
3. Long-term/Intermediate-term Signs may be used in lieu of Short-term/Short Duration signing.
4. 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.
5. Regulatory signs shall be mounted at least 7 feet, but not more than 9 feet, above the paved surface regardless of work duration.

SIZE OF SIGNS

1. 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

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

SIGN LETTERS

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

REMOVING OR COVERING

1. When sign messages may be confusing or do not apply, the signs shall be removed or completely covered.
2. 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 intersections where the sign may be seen from approaching traffic.
3. 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.
4. When signs are covered, the material used shall be opaque, such as heavy mil black plastic, or other materials which will cover the entire sign face and maintain their opaque properties under automobile headlights at night, without damaging the sign sheeting.
5. Burlap shall NOT be used to cover signs.
6. Duct tape or other adhesive material shall NOT be affixed to a sign face.
7. 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.
2. The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight.
3. Rock, concrete, iron, steel or other solid objects shall not be permitted for use as sign support weights.
4. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs.
5. Sandbags shall be made of a durable material that tears upon vehicular impact. Rubber (such as tire inner tubes) shall NOT be used.
6. 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.
7. 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.
8. 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.

Texas Department of Transportation

Traffic Operations Division Standard

BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES

BC(4)-14

FILE: bc-14.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS	0049	15	014, ETC.	SH 14, ETC.
9-07 8-14	DIST	COUNTY		SHEET NO.
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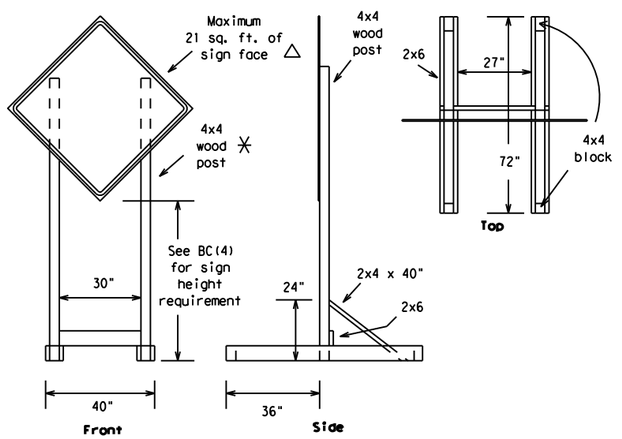
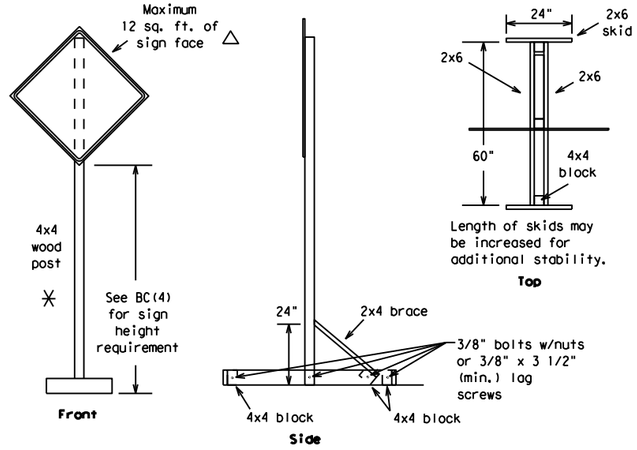
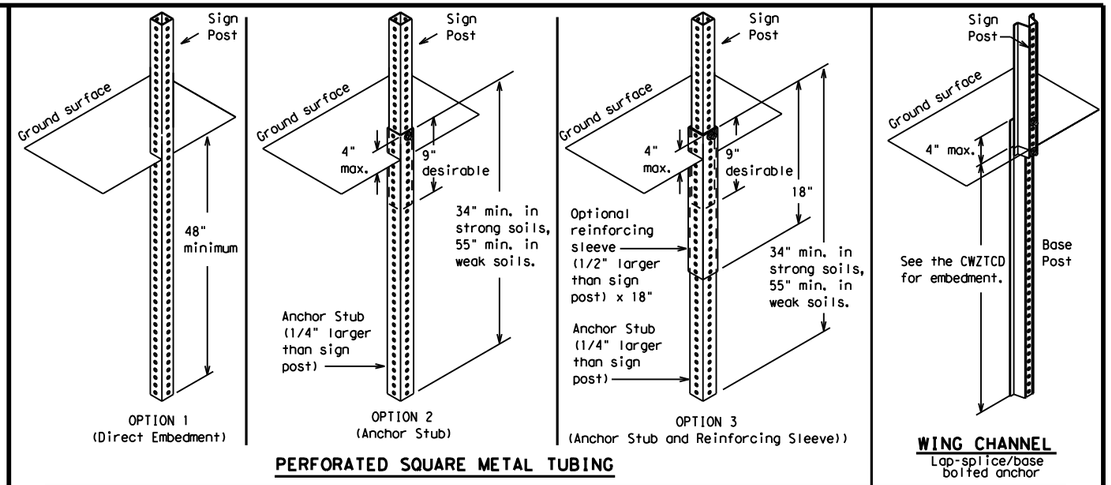




SKID MOUNTED WOOD SIGN SUPPORTS

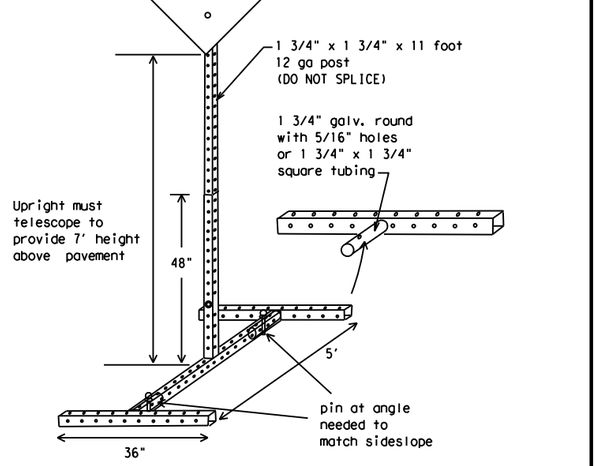
LONG/INTERMEDIATE TERM STATIONARY - PORTABLE SKID MOUNTED SIGN SUPPORTS □

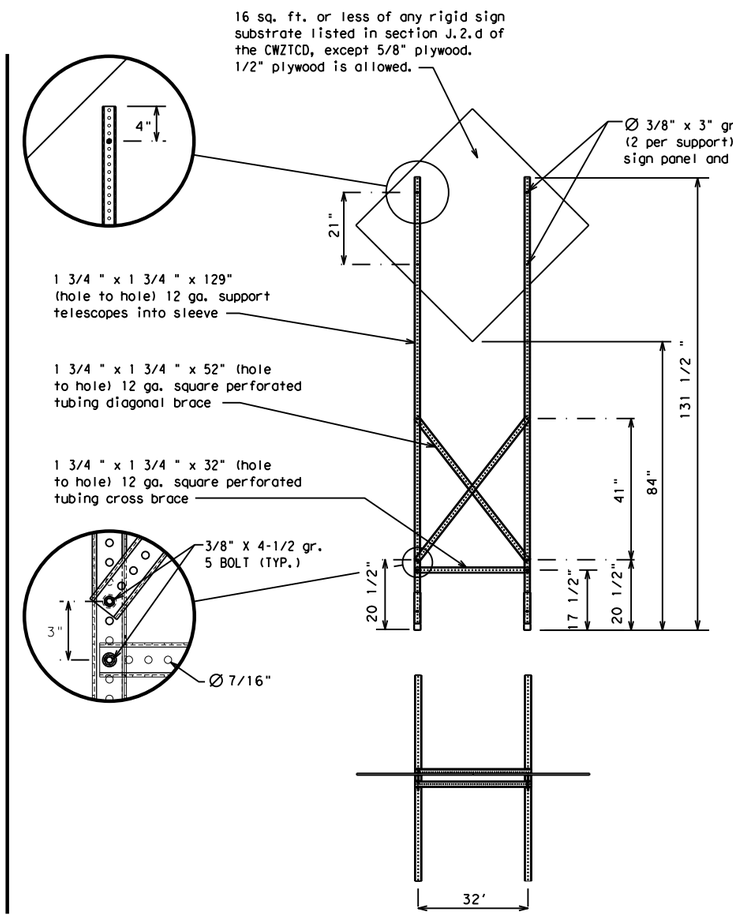


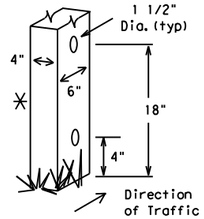
PERFORATED SQUARE METAL TUBING

GROUND MOUNTED SIGN SUPPORTS

Refer to the CWZTCD and the manufacturer's installation procedure for each type sign support.
The maximum sign square footage shall adhere to the manufacturer's recommendation.
Two post installations can be used for larger signs.

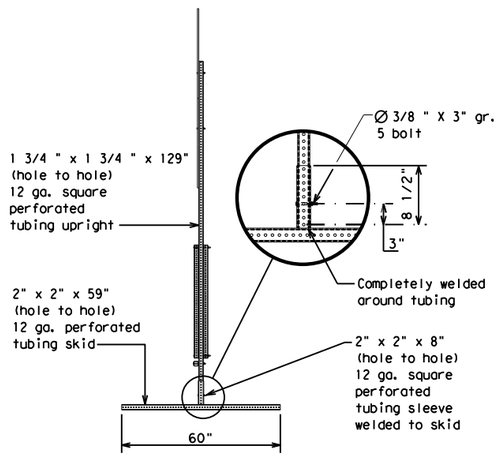






Nominal Post Size	Number of Posts	Maximum Sq. feet of Sign Face	Minimum Soil Embedment	Drilled Hole(s) Required
4 x 4	1	12	36"	NO
4 x 4	2	21	36"	NO
4 x 6	1	21	36"	YES
4 x 6	2	36	36"	YES

WOOD POST SYSTEM FOR GROUND MOUNTED SIGN SUPPORTS



SKID MOUNTED PERFORATED SQUARE STEEL TUBING SIGN SUPPORTS

WEDGE ANCHORS

Both steel and plastic Wedge Anchor Systems as shown on the SMD Standard Sheets may be used as temporary sign supports for signs up to 10 square feet of sign face. They may be set in concrete or in sturdy soils if approved by the Engineer. (See web address for "Traffic Engineering Standard Sheets" on BC(1)).

OTHER DESIGNS

MORE DETAILS OF APPROVED LONG/INTERMEDIATE AND SHORT TERM SUPPORTS CAN BE FOUND ON THE CWZTCD LIST. SEE BC(1) FOR WEBSITE LOCATION.

GENERAL NOTES

1. Nails may be used in the assembly of wooden sign supports, but 3/8" bolts with nuts or 3/8" x 3 1/2" lag screws must be used on every joint for final connection.
2. No more than 2 sign posts shall be placed within a 7 ft. circle, except for specific materials noted on the CWZTCD List.
3. When project is completed, all sign supports and foundations shall be removed from the project site. This will be considered subsidiary to Item 502.

□ See BC(4) for definition of "Work Duration."

✳ Wood sign posts MUST be one piece. Splicing will NOT be allowed. Posts shall be painted white.

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

SHEET 5 OF 12

Texas Department of Transportation | Traffic Operations Division Standard

BARRICADE AND CONSTRUCTION TYPICAL SIGN SUPPORT

BC(5)-14

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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).
2. Messages on PCMS should contain no more than 8 words (about four to 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."
5. Always use the route or interstate designation (IH, US, SH, FM) along with the number when referring to a roadway.
6. When in use the bottom of a stationary PCMS message panel should be a minimum 7 feet above the roadway, where possible.
7. The message term "WEEKEND" should be used only if the work is to 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.
8. 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.
9. 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.
11. Do not use the word "Danger" in message.
12. 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
Access Road	ACCS RD
Alternate	ALT
Avenue	AVE
Best Route	BEST RTE
Boulevard	BLVD
Bridge	BRDG
Cannot	CANT
Center	CTR
Construction Ahead	CONST AHD
CROSSING	XING
Detour Route	DETOUR RTE
Do Not	DONT
East	E
Eastbound	(route) E
Emergency	EMER
Emergency Vehicle	EMER VEH
Entrance, Enter	ENT
Express Lane	EXP LN
Expressway	EXPWY
XXXX Feet	XXXX FT
Fog Ahead	FOG AHD
Freeway	FRWY, FWY
Freeway Blocked	FWY BLKD
Friday	FRI
Hazardous Driving	HAZ DRIVING
Hazardous Material	HAZMAT
High-Occupancy	HOV
Vehicle Highway	HWY
Hour(s)	HR, HRS
Information	INFO
It Is	ITS
Junction	JCT
Left	LFT
Left Lane	LFT LN
Lane Closed	LN CLOSED
Lower Level	LWR LEVEL
Maintenance	MAINT

WORD OR PHRASE	ABBREVIATION
Major	MAJ
Miles	MI
Miles Per Hour	MPH
Minor	MNR
Monday	MON
Normal	NORM
North	N
Northbound	(route) N
Parking	PKING
Road	RD
Right Lane	RT LN
Saturday	SAT
Service Road	SERV RD
Shoulder	SHLDR
Slippery	SLIP
South	S
Southbound	(route) S
Speed	SPD
Street	ST
Sunday	SUN
Telephone	PHONE
Temporary	TEMP
Thursday	THURS
To Downtown	TO DWNTN
Traffic	TRAF
Travelers	TRVLRS
Tuesday	TUES
Time Minutes	TIME MIN
Upper Level	UPR LEVEL
Vehicles (s)	VEH, VEHS
Warning	WARN
Wednesday	WED
Weight Limit	WT LIMIT
West	W
Westbound	(route) W
Wet Pavement	WET PVMT
Will Not	WONT

Roadway designation * IH-number, US-number, SH-number, FM-number

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

- FREEWAY CLOSED X MILE
- FRONTAGE ROAD CLOSED
- ROAD CLOSED AT SH XXX
- SHOULDER CLOSED XXX FT
- ROAD CLSD AT FM XXXX
- RIGHT LN CLOSED XXX FT
- RIGHT X LANES CLOSED
- RIGHT X LANES OPEN
- CENTER LANE CLOSED
- DAYTIME LANE CLOSURES
- NIGHT LANE CLOSURES
- I-XX SOUTH EXIT CLOSED
- VARIOUS LANES CLOSED
- EXIT XXX CLOSED X MILE
- EXIT CLOSED
- RIGHT LN TO BE CLOSED
- MALL DRIVEWAY CLOSED
- X LANES CLOSED TUE - FRI
- XXXXXXXX BLVD CLOSED

Other Condition 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
- LANES SHIFT *

* LANES SHIFT in Phase 1 must be used with STAY IN LANE in Phase 2.

Phase 2: Possible Component Lists

Action to Take/Effect on Travel List

- MERGE RIGHT
- FORM X LINES RIGHT
- DETOUR NEXT X EXITS
- USE XXXXX RD EXIT
- USE EXIT XXX
- USE EXIT I-XX NORTH
- STAY ON US XXX SOUTH
- USE I-XX E TO I-XX N
- TRUCKS USE US XXX N
- WATCH FOR TRUCKS
- WATCH FOR TRUCKS
- EXPECT DELAYS
- EXPECT DELAYS
- PREPARE TO STOP
- REDUCE SPEED XXX FT
- END SHOULDER USE
- USE OTHER ROUTES
- WATCH FOR WORKERS
- STAY IN LANE *

Location List

- AT FM XXXX
- BEFORE RAILROAD CROSSING
- NEXT X MILES
- PAST US XXX EXIT
- XXXXXXX TO XXXXXXX
- US XXX TO FM XXXX

Warning List

- SPEED LIMIT XX MPH
- MAXIMUM SPEED XX MPH
- MINIMUM SPEED XX MPH
- ADVISORY SPEED XX MPH
- RIGHT LANE EXIT
- USE CAUTION
- DRIVE SAFELY
- DRIVE WITH CARE

** Advance Notice List

- TUE-FRI XX AM- X PM
- APR XX- XX X PM-X AM
- BEGINS MONDAY
- BEGINS MAY XX
- MAY X-X XX PM - XX AM
- NEXT FRI-SUN
- XX AM TO XX PM
- NEXT TUE AUG XX
- TONIGHT XX PM- XX AM

* STAY IN LANE in Phase 2 must be used with LANES SHIFT in Phase 1.

** See Application Guidelines Note 6.

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

Texas Department of Transportation

Traffic Operations Division Standard

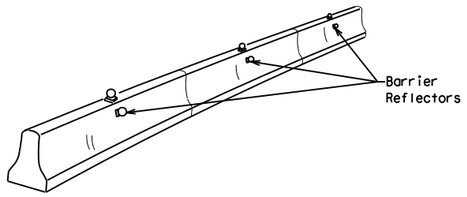
BARRICADE AND CONSTRUCTION PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

BC(6)-14

FILE: bc-14.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS	0049	15	014, ETC.	SH 14, ETC.
9-07 8-14	DIST	COUNTY		SHEET NO.
7-13	BRY	ROBERTSON, ETC.		87

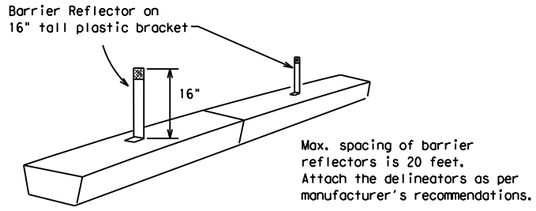
DATE: 8/5/2021
FILE: G:\0049\15\014\AC-Asphalt Design\10 STANDARDS\bc-14.dgn

1. Barrier Reflectors shall be pre-qualified, and conform to the color and reflectivity requirements of DMS-8600. A list of prequalified Barrier Reflectors can be found at the Material Producer List web address shown on BC(1).
2. Color of Barrier Reflectors shall be as specified in the TMUTCD. The cost of the reflectors shall be considered subsidiary to Item 512.

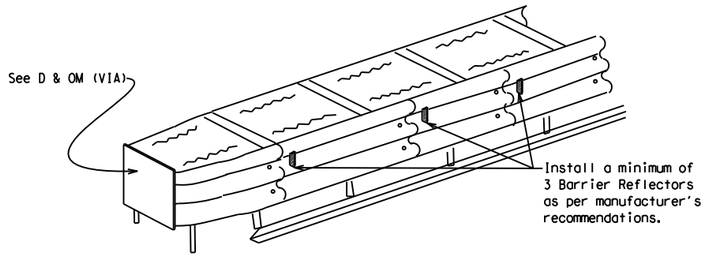


CONCRETE TRAFFIC BARRIER (CTB)

3. Where traffic is on one side of the CTB, two (2) Barrier Reflectors shall be mounted in approximately the midsection of each section of CTB. An alternate mounting location is uniformly spaced at one end of each CTB. This will allow for attachment of a barrier grapple without damaging the reflector. The Barrier Reflector mounted on the side of the CTB shall be located directly below the reflector mounted on top of the barrier, as shown in the detail above.
4. Where CTB separates two-way traffic, three barrier reflectors shall be mounted on each section of CTB. The reflector unit on top shall have two yellow reflective faces (Bi-Directional)while the reflectors on each side of the barrier shall have one yellow reflective face, as shown in the detail above.
5. When CTB separates traffic traveling in the same direction, no barrier reflectors will be required on top of the CTB.
6. Barrier Reflector units shall be yellow or white in color to match the edgeline being supplemented.
7. Maximum spacing of Barrier Reflectors is forty (40) feet.
8. Pavement markers or temporary flexible-reflective roadway marker tabs shall NOT be used as CTB delineation.
9. Attachment of Barrier Reflectors to CTB shall be per manufacturer's recommendations.
10. Missing or damaged Barrier Reflectors shall be replaced as directed by the Engineer.
11. Single slope barriers shall be delineated as shown on the above detail.



LOW PROFILE CONCRETE BARRIER (LPCB)

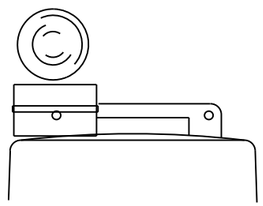


DELINEATION OF END TREATMENTS

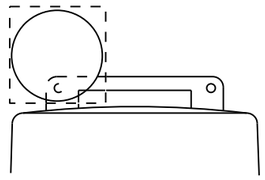
END TREATMENTS FOR CTB'S USED IN WORK ZONES

End treatments used on CTB's in work zones shall meet crashworthy standards as defined in the National Cooperative Highway Research Report 350. Refer to the CWZTCD List for approved end treatments and manufacturers.

BARRIER REFLECTORS FOR CONCRETE TRAFFIC BARRIER AND ATTENUATORS



Type C Warning Light or approved substitute mounted on a drum adjacent to the travel way.



Warning reflector may be round or square. Must have a yellow reflective surface area of at least 30 square inches

WARNING LIGHTS

1. Warning lights shall meet the requirements of the TMUTCD.
2. Warning lights shall NOT be installed on barricades.
3. Type A-Low Intensity Flashing Warning Lights are commonly used with drums. They are intended to warn of or mark a potentially hazardous area. Their use shall be as indicated on this sheet and/or other sheets of the plans by the designation "FL". The Type A Warning Lights shall not be used with signs manufactured with Type B_{FL} or C_{FL} Sheeting meeting the requirements of Departmental Material Specification DMS-8300.
4. Type-C and Type D 360 degree Steady Burn Lights are intended to be used in a series for delineation to supplement other traffic control devices. Their use shall be as indicated on this sheet and/or other sheets of the plans by the designation "SB".
5. The Engineer/Inspector or the plans shall specify the location and type of warning lights to be installed on the traffic control devices.
6. When required by the Engineer, the Contractor shall furnish a copy of the warning lights certification. The warning light manufacturer will certify the warning lights meet the requirements of the latest ITE Purchase Specifications for Flashing and Steady-Burn Warning Lights.
7. When used to delineate curves, Type-C and Type D Steady Burn Lights should only be placed on the outside of the curve, not the inside.
8. The location of warning lights and warning reflectors on drums shall be as shown elsewhere in the plans.

WARNING LIGHTS MOUNTED ON PLASTIC DRUMS

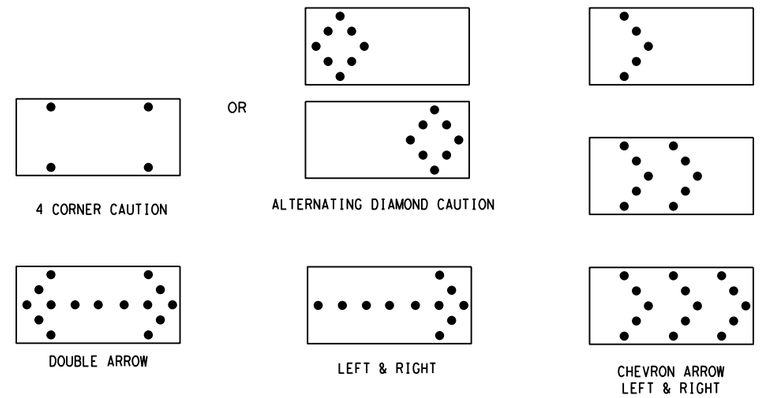
1. Type A flashing warning lights are intended to warn drivers that they are approaching or are in a potentially hazardous area.
2. Type A random flashing warning lights are not intended for delineation and shall not be used in a series.
3. A series of sequential flashing warning lights placed on channelizing devices to form a merging taper may be used for delineation. If used, the successive flashing of the sequential warning lights should occur from the beginning of the taper to the end of the merging taper in order to identify the desired vehicle path. The rate of flashing for each light shall be 65 flashes per minute, plus or minus 10 flashes.
4. Type C and D steady-burn warning lights are intended to be used in a series to delineate the edge of the travel lane on detours, on lane changes, on lane closures, and on other similar conditions.
5. Type A, Type C and Type D warning lights shall be installed at locations as detailed on other sheets in the plans.
6. Warning lights shall not be installed on a drum that has a sign, chevron or vertical panel.
7. The maximum spacing for warning lights on drums should be identical to the channelizing device spacing.

WARNING REFLECTORS MOUNTED ON PLASTIC DRUMS AS A SUBSTITUTE FOR TYPE C (STEADY BURN) WARNING LIGHTS

1. A warning reflector or approved substitute may be mounted on a plastic drum as a substitute for a Type C, steady burn warning light at the discretion of the Contractor unless otherwise noted in the plans.
2. The warning reflector shall be yellow in color and shall be manufactured using a sign substrate approved for use with plastic drums listed on the CWZTCD.
3. The warning reflector shall have a minimum retroreflective surface area (one-side) of 30 square inches.
4. Round reflectors shall be fully reflectorized, including the area where attached to the drum.
5. Square substrates must have a minimum of 30 square inches of reflectorized sheeting. They do not have to be reflectorized where it attaches to the drum.
6. The side of the warning reflector facing approaching traffic shall have sheeting meeting the color and retroreflectivity requirements for DMS 8300-Type B or Type C.
7. When used near two-way traffic, both sides of the warning reflector shall be reflectorized.
8. The warning reflector should be mounted on the side of the handle nearest approaching traffic.
9. The maximum spacing for warning reflectors should be identical to the channelizing device spacing requirements.

Arrow Boards may be located behind channelizing devices in place for a shoulder taper or merging taper, otherwise they shall be delineated with four (4) channelizing devices placed perpendicular to traffic on the upstream side of traffic.

1. The Flashing Arrow Board should be used for all lane closures on multi-lane roadways, or slow moving maintenance or construction activities on the travel lanes.
2. Flashing Arrow Boards should not be used on two-lane, two-way roadways, detours, diversions or work on shoulders unless the "CAUTION" display (see detail below) is used.
3. The Engineer/Inspector shall choose all appropriate signs, barricades and/or other traffic control devices that should be used in conjunction with the Flashing Arrow Board.
4. The Flashing Arrow Board should be able to display the following symbols:



5. The "CAUTION" display consists of four corner lamps flashing simultaneously, or the Alternating Diamond Caution mode as shown.
6. The straight line caution display is NOT ALLOWED.
7. The Flashing Arrow Board shall be capable of minimum 50 percent dimming from rated lamp voltage. The flashing rate of the lamps shall not be less than 25 nor more than 40 flashes per minute.
8. Minimum lamp "on time" shall be approximately 50 percent for the flashing arrow and equal intervals of 25 percent for each sequential phase of the flashing chevron.
9. The sequential arrow display is NOT ALLOWED.
10. The flashing arrow display is the TxDOT standard; however, the sequential Chevron display may be used during daylight operations.
11. The Flashing Arrow Board shall be mounted on a vehicle, trailer or other suitable support.
12. A Flashing Arrow Board SHALL NOT BE USED to laterally shift traffic.
13. A full matrix PCMS may be used to simulate a Flashing Arrow Board provided it meets visibility, flash rate and dimming requirements on this sheet for the same size arrow.
14. Minimum mounting height of trailer mounted Arrow Boards should be 7 feet from roadway to bottom of panel.

REQUIREMENTS			
TYPE	MINIMUM SIZE	MINIMUM NUMBER OF PANEL LAMPS	MINIMUM VISIBILITY DISTANCE
B	30 x 60	13	3/4 mile
C	48 x 96	15	1 mile

ATTENTION

Flashing Arrow Boards shall be equipped with automatic dimming devices.

WHEN NOT IN USE, REMOVE THE ARROW BOARD FROM THE RIGHT-OF-WAY OR PLACE THE ARROW BOARD BEHIND CONCRETE TRAFFIC BARRIER OR GUARDRAIL.

FLASHING ARROW BOARDS

TRUCK-MOUNTED ATTENUATORS

1. Truck-mounted attenuators (TMA) used on TxDOT facilities must meet the requirements outlined in the National Cooperative Highway Research Report No. 350 (NCHRP 350) or the Manual for Assessing Safety Hardware (MASH).
2. Refer to the CWZTCD for the requirements of Level 2 or Level 3 TMAs.
3. Refer to the CWZTCD for a list of approved TMAs.
4. TMAs are required on freeways unless otherwise noted in the plans.
5. A TMA should be used anytime that it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the work performance.
6. The only reason a TMA should not be required is when a work area is spread down the roadway and the work crew is an extended distance from the TMA.

Texas Department of Transportation

Traffic Operations Division Standard

BARRICADE AND CONSTRUCTION ARROW PANEL, REFLECTORS, WARNING LIGHTS & ATTENUATOR

BC(7)-14

FILE: bc-14.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS	0049	15	014, ETC.	SH 14, ETC.
9-07 8-14	DIST	COUNTY		SHEET NO.
7-13	BRY	ROBERTSON, ETC.		88

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DATE: 8/5/2021
FILE: c:\300491501\4\AC-Asphalt Design\10 STANDARDS\bc-14.dgn

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-qualified plastic drums shall meet the following requirements:

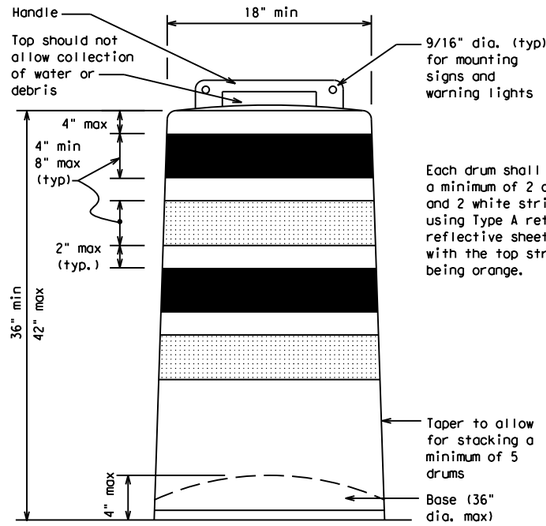
1. Plastic drums shall be a two-piece design; the "body" of the drum shall be the top portion and the "base" shall be the bottom.
2. The body and base shall lock together in such a manner that the body separates from the base when impacted by a vehicle traveling at a speed of 20 MPH or greater but prevents 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.

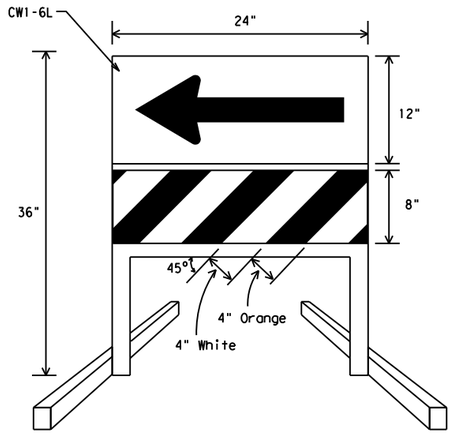
RETROREFLECTIVE SHEETING

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 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

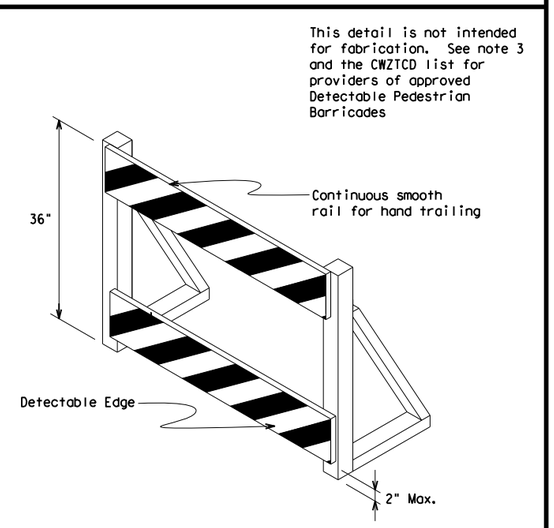
1. Unballasted bases shall be large enough to hold up to 50 lbs. of sand. This base, when filled with the ballast material, should weigh between 35 lbs (minimum) and 50 lbs (maximum). The ballast may be sand in one to three sandbags separate from the base, sand in a sand-filled plastic base, or other 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.
3. 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.





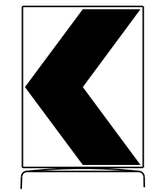
DIRECTION INDICATOR BARRICADE

1. The Direction Indicator Barricade may be used in tapers, transitions, and other areas where specific directional guidance to drivers is necessary.
2. If used, the Direction Indicator Barricade should be used in series to direct the driver through the transition and into the intended travel lane.
3. The Direction Indicator Barricade shall consist of One-Direction Large Arrow (CW1-6) sign in the size shown with a black arrow on a background of Type B_{FL} or Type C_{FL} Orange retroreflective sheeting above a rail with Type A retroreflective sheeting in alternating 4" white and orange stripes sloping downward at an angle of 45 degrees in the direction road users are to pass. Sheeting types shall be as per DMS 8300.
4. Double arrows on the Direction Indicator Barricade will not be allowed.
5. Approved manufacturers are shown on the CWZTCD List. Ballast shall be as approved by the manufacturers instructions.

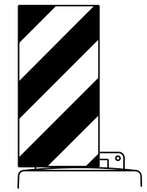


DETECTABLE PEDESTRIAN BARRICADES

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.
2. Where pedestrians with visual disabilities normally use the closed sidewalk, a device that is detectable by a person with a visual disability traveling with the aid of a long cane shall be placed across the full width of the closed sidewalk.
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 path.
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 for Buildings and Facilities (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 may 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.



18" x 24" Sign
(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

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 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.

Texas Department of Transportation

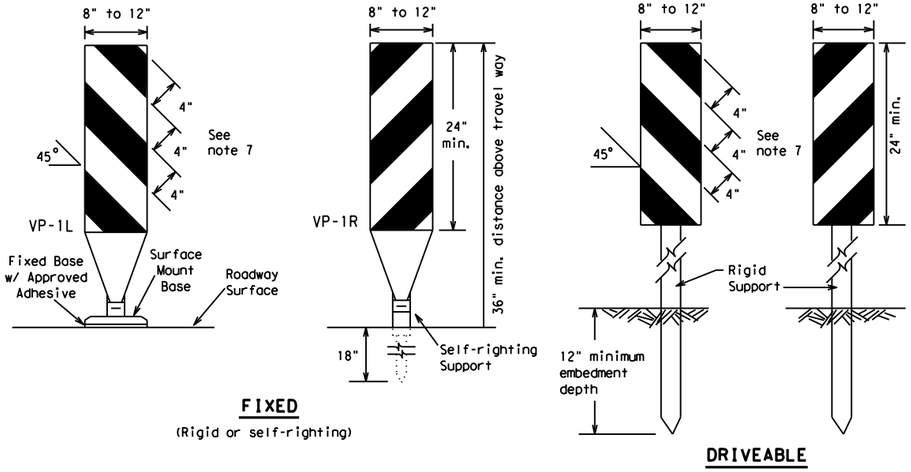
Traffic Operations Division Standard

BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(8)-14

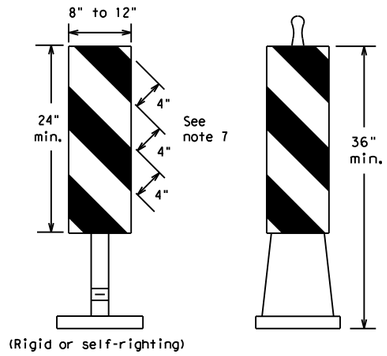
FILE: bc-14.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS	0049	15	014, ETC.	SH 14, ETC.
4-03 7-13	DIST	COUNTY		SHEET NO.
9-07 8-14	BRY	ROBERTSON, ETC.		89

DATE: 8/5/2021
FILE: G:\0049\15\014\AC-Asphalt Design\10 STANDARDS\bc-14.dgn



FIXED
(Rigid or self-righting)

DRIVEABLE

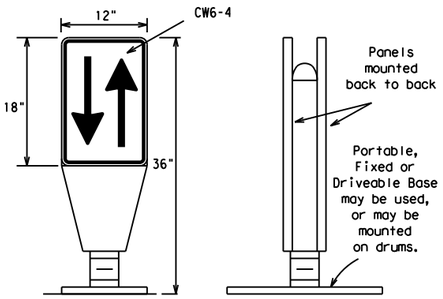


(Rigid or self-righting)

PORTABLE

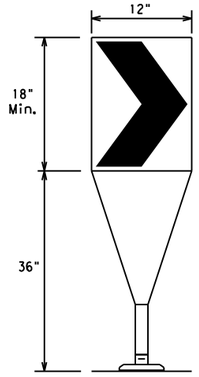
1. Vertical Panels (VP's) are normally used to channelize traffic or divide opposing lanes of traffic.
2. VP's may be used in daytime or nighttime situations. They may be used at the edge of shoulder drop-offs and other areas such as lane transitions where positive daytime and nighttime delineation is required. The Engineer/Inspector shall refer to the Roadway Design Manual Appendix B "Treatment of Pavement Drop-offs in Work Zones" for additional guidelines on the use of VP's for drop-offs.
3. VP's should be mounted back to back if used at the edge of cuts adjacent to two-way two lane roadways. Stripes are to be reflective orange and reflective white and should always slope downward toward the travel lane.
4. VP's used on expressways and freeways or other high speed roadways, may have more than 270 square inches of retroreflective area facing traffic.
5. Self-righting supports are available with portable base. See "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
6. Sheeting for the VP's shall be retroreflective Type A conforming to Departmental Material Specification DMS-8300, unless noted otherwise.
7. Where the height of reflective material on the vertical panel is 36 inches or greater, a panel stripe of 6 inches shall be used.

VERTICAL PANELS (VPs)



1. Opposing Traffic Lane Dividers (OTLD) are delineation devices designed to convert a normal one-way roadway section to two-way operation. OTLD's are used on temporary centerlines. The upward and downward arrows on the sign's face indicate the direction of traffic on either side of the divider. The base is secured to the pavement with an adhesive or rubber weight to minimize movement caused by a vehicle impact or wind gust.
2. The OTLD may be used in combination with 42" cones or VPs.
3. Spacing between the OTLD shall not exceed 500 feet. 42" cones or VPs placed between the OTLD's should not exceed 100 foot spacing.
4. The OTLD shall be orange with a black non-reflective legend. Sheeting for the OTLD 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.

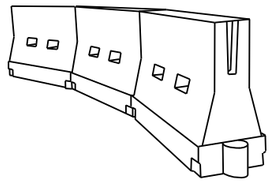
OPPOSING TRAFFIC LANE DIVIDERS (OTLD)



Fixed Base w/ Approved Adhesive (Driveable Base, or Flexible Support can be used)

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 outside 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) placed near the top of the LCD along the full length of the device.

WATER BALLASTED SYSTEMS USED AS BARRIERS

1. 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 NCHRP 350 crashworthiness requirements based on roadway speed and barrier application.
2. Water ballasted 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.
4. 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.
5. 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.

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.

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

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.
6. 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 **			Suggested Maximum Spacing of Channelizing Devices	
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'
35		205'	225'	245'	35'	70'
40		265'	295'	320'	40'	80'
45	L = WS	450'	495'	540'	45'	90'
50		500'	550'	600'	50'	100'
55		550'	605'	660'	55'	110'
60		600'	660'	720'	60'	120'
65		650'	715'	780'	65'	130'
70		700'	770'	840'	70'	140'
75		750'	825'	900'	75'	150'
80		800'	880'	960'	80'	160'

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

SUGGESTED MAXIMUM SPACING OF CHANNELIZING DEVICES AND MINIMUM DESIRABLE TAPER LENGTHS

SHEET 9 OF 12

Texas Department of Transportation | Traffic Operations Division Standard

BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(9)-14

FILE: bc-14.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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REVISIONS	0049	15	014, ETC.	SH 14, ETC.
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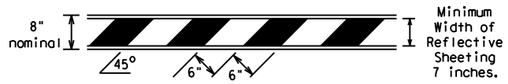
DATE: 8/5/2021
FILE: G:\0049\15\014\AC-Asphalt Designs\10 STANDARDS\bc-14.dgn

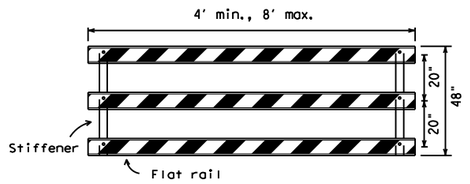
TYPE 3 BARRICADES

1. Refer to the Compliant Work Zone Traffic Control Devices List (CWZTCD) for details of the Type 3 Barricades and a list of all materials used in the construction of Type 3 Barricades.
2. Type 3 Barricades shall be used at each end of construction projects closed to all traffic.
3. Barricades extending across a roadway should have stripes that slope downward in the direction toward which traffic must turn in detouring. When both right and left turns are provided, the chevron striping may slope downward in both directions from the center of the barricade. Where no turns are provided at a closed road striping should slope downward in both directions toward the center of roadway.
4. Striping of rails, for the right side of the roadway, should slope downward to the left. For the left side of the roadway, striping should slope downward to the right.
5. Identification markings may be shown only on the back of the barricade rails. The maximum height of letters and/or company logos used for identification shall be 1".
6. Barricades shall not be placed parallel to traffic unless an adequate clear zone is provided.
7. Warning lights shall NOT be installed on barricades.
8. Where barricades require the use of weights to keep from turning over, the use of sandbags with dry, cohesionless sand is recommended. The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight. Sand bags shall not be stacked in a manner that covers any portion of a barricade rails reflective sheeting. Rock, concrete, iron, steel or other solid objects will NOT be permitted. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs. Sandbags shall be made of a durable material that tears upon vehicular impact. Rubber (such as tire inner tubes) shall not be used for sandbags. Sandbags shall only be placed along or upon the base supports of the device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners.
9. Sheeting for barricades shall be retroreflective Type A conforming to Departmental Material Specification DMS-8300 unless otherwise noted.

Barricades shall NOT be used as a sign support.



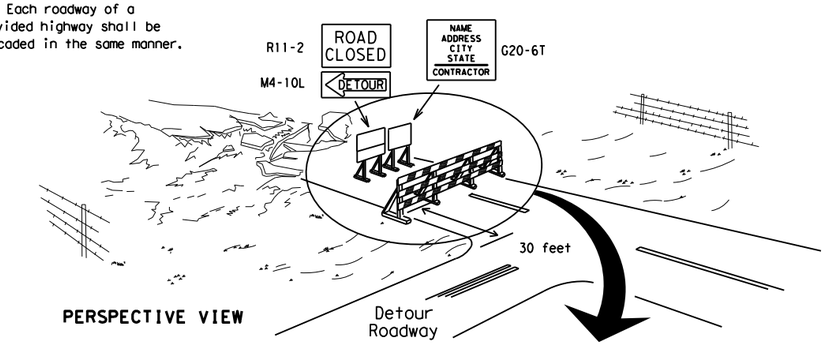
TYPICAL STRIPING DETAIL FOR BARRICADE RAIL



Stiffener may be inside or outside of support, but no more than 2 stiffeners shall be allowed on one barricade.

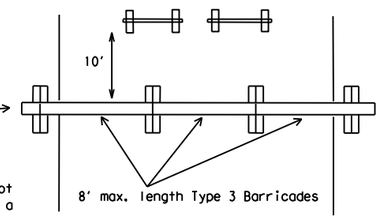
TYPICAL PANEL DETAIL FOR SKID OR POST TYPE BARRICADES

Each roadway of a divided highway shall be barricaded in the same manner.



PERSPECTIVE VIEW

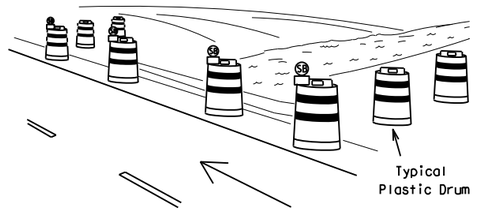
The three rails on Type 3 barricades shall be reflectorized orange and reflective white stripes on one side facing one-way traffic and both sides for two-way traffic.
Barricade striping should slant downward in the direction of detour.



PLAN VIEW

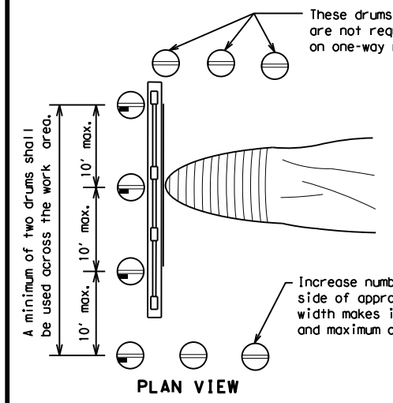
1. Signs should be mounted on independent supports at a 7 foot mounting height in center of roadway. The signs should be a minimum of 10 feet behind Type 3 Barricades.
2. Advance signing shall be as specified elsewhere in the plans.

TYPE 3 BARRICADE (POST AND SKID) TYPICAL APPLICATION



PERSPECTIVE VIEW

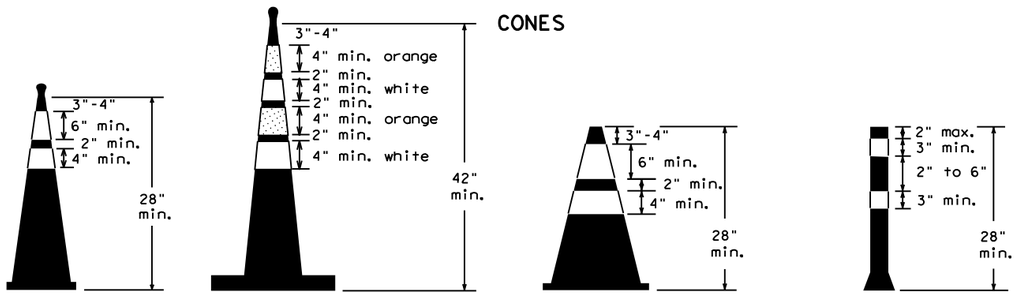
1. Where positive redirectional capability is provided, drums may be omitted.
2. Plastic construction fencing may be used with drums for safety as required in the plans.
3. Vertical Panels on flexible support may be substituted for drums when the shoulder width is less than 4 feet.
4. When the shoulder width is greater than 12 feet, steady-burn lights may be omitted if drums are used.
5. Drums must extend the length of the culvert widening.



LEGEND	
	Plastic drum
	Plastic drum with steady burn light or yellow warning reflector
SB	Steady burn warning light or yellow warning reflector

PLAN VIEW

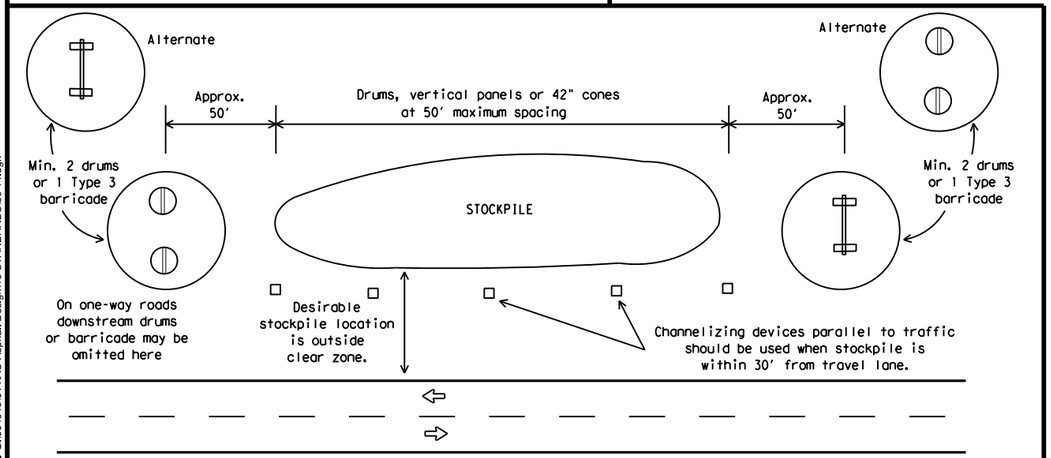
CULVERT WIDENING OR OTHER ISOLATED WORK WITHIN THE PROJECT LIMITS



28" Cones shall have a minimum weight of 9 1/2 lbs.

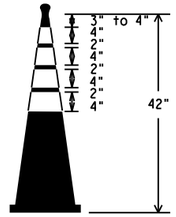
42" 2-piece cones shall have a minimum weight of 30 lbs. including base.

1. Traffic cones and tubular markers shall be predominantly orange, and meet the height and weight requirements shown above.
2. One-piece cones have the body and base of the cone molded in one consolidated unit. Two-piece cones have a cone shaped body and a separate rubber base, or ballast, that is added to keep the device upright and in place.
3. Two-piece cones may have a handle or loop extending up to 8" above the minimum height shown, in order to aid in retrieving the device.
4. Cones or tubular markers used at night shall have white or white and orange reflective bands as shown above. The reflective bands shall have a smooth, sealed outer surface and meet the requirements of Departmental Material Specification DMS-8300 Type A.
5. 28" cones and tubular markers are generally suitable for short duration and short-term stationary work as defined on BC(4). These should not be used for intermediate-term or long-term stationary work unless personnel is on-site to maintain them in their proper upright position.
6. 42" two-piece cones, vertical panels or drums are suitable for all work zone durations.
7. Cones or tubular markers used on each project should be of the same size and shape.



TRAFFIC CONTROL FOR MATERIAL STOCKPILES

THIS DEVICE SHALL NOT BE USED ON PROJECTS LET AFTER MARCH 2014.



EDGELINE CHANNELIZER

1. This device is intended only for use in place of a vertical panel to channelize traffic by indicating the edge of the travel lane. It is not intended to be used in transitions or tapers.
2. This device shall not be used to separate lanes of traffic (opposing or otherwise) or warn of objects.
3. This device is based on a 42 inch, two-piece cone with an alternate striping pattern: four 4 inch retroreflective bands, with an approximate 2 inch gap between bands. The color of the band should correspond to the color of the edgeline (yellow for left edgeline, white for right edgeline) for which the device is substituted or for which it supplements. The reflectorized bands shall be retroreflective Type A conforming to Departmental Material Specification DMS-8300, unless otherwise noted.
4. The base must weigh a minimum of 30 lbs.

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BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(10)-14

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WORK ZONE PAVEMENT MARKINGS

GENERAL

1. 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.
4. 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 TMUTCD, 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.
7. 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).
2. 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

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

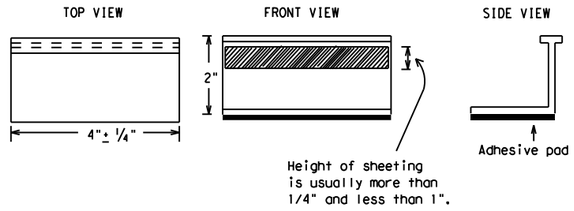
MAINTAINING WORK ZONE PAVEMENT MARKINGS

1. The Contractor will be responsible for maintaining work zone pavement markings within the work limits.
2. 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.
4. 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

1. 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.
2. 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.
3. 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.
5. 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.
9. 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 SECURE TEMPORARY FLEXIBLE-REFLECTIVE ROADWAY MARKER TABS TO THE PAVEMENT SURFACE

1. Temporary flexible-reflective roadway marker tabs used as guidemarks shall meet the requirements of DMS-8242.
2. Tabs detailed on this sheet are to be inspected and accepted by the Engineer or designated representative. Sampling and testing is not normally required, however at the option of the Engineer, either "A" or "B" below may be imposed to assure quality before placement on the roadway.
   A. Select five (5) or more tabs at random from each lot or shipment and submit to the Construction Division, Materials and Pavement Section to determine specification compliance.
   B. Select five (5) tabs and perform the following test. Affix five (5) tabs at 24 inch intervals on an asphaltic pavement in a straight line. Using a medium size passenger vehicle or pickup, run over the markers with the front and rear tires at a speed of 35 to 40 miles per hour, four (4) times in each direction. No more than one (1) out of the five (5) reflective surfaces shall 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. See Standard Sheet TCP(7-1) for tab placement on seal coat work.

RAISED PAVEMENT MARKERS USED AS GUIDEMARKS

1. Raised pavement markers used as guidemarks shall be from the approved product list, and meet the requirements of DMS-4200.
2. All temporary construction raised pavement markers provided on a project shall be of the same manufacturer.
3. Adhesive for guidemarks shall be bituminous material hot applied or butyl rubber pad for all surfaces, or thermoplastic for concrete surfaces.

Guidemarks shall be designated as:
YELLOW - (two amber reflective surfaces with yellow body).
WHITE - (one silver reflective surface with white body).

DEPARTMENTAL MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
TRAFFIC BUTTONS	DMS-4300
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240
TEMPORARY REMOVABLE, PREFABRICATED PAVEMENT MARKINGS	DMS-8241
TEMPORARY FLEXIBLE, REFLECTIVE ROADWAY MARKER TABS	DMS-8242

A list of prequalified reflective raised pavement markers, non-reflective traffic buttons, roadway marker tabs and other pavement markings can be found at the Material Producer List web address shown on BC(1).

Texas Department of Transportation

Traffic Operations Division Standard

BARRICADE AND CONSTRUCTION PAVEMENT MARKINGS

BC(11)-14

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2-98 9-07	DIST	COUNTY		SHEET NO.
1-02 7-13	BRY	ROBERTSON, ETC.		92
11-02 8-14				

105

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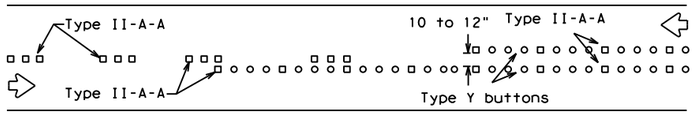
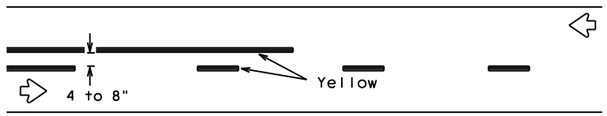
PAVEMENT MARKING PATTERNS

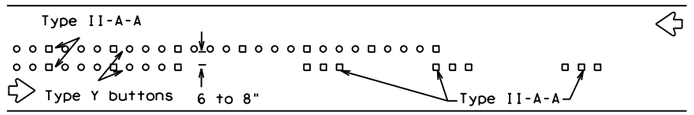
REFLECTORIZED PAVEMENT MARKINGS - PATTERN A



RAISED PAVEMENT MARKERS - PATTERN A



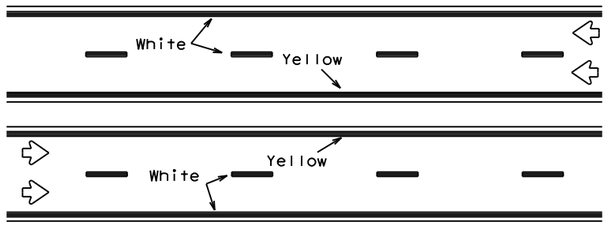
REFLECTORIZED PAVEMENT MARKINGS - PATTERN B



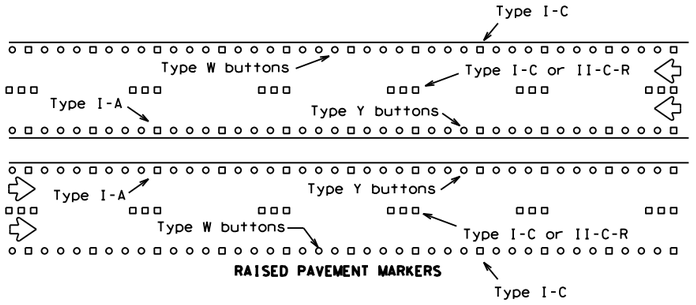
RAISED PAVEMENT MARKERS - PATTERN B

Pattern A is the TXDOT Standard, however Pattern B may be used if approved by the Engineer.
Prefabricated markings may be substituted for reflectorized pavement markings.

CENTER LINE & NO-PASSING ZONE BARRIER LINES FOR TWO-LANE, TWO-WAY HIGHWAYS



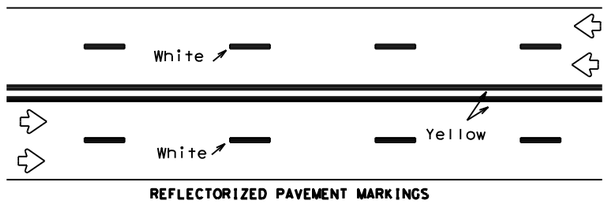
REFLECTORIZED PAVEMENT MARKINGS



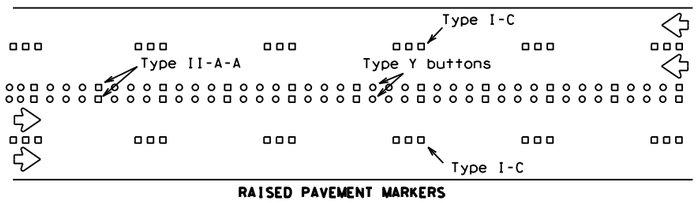
RAISED PAVEMENT MARKERS

Prefabricated markings may be substituted for reflectorized pavement markings.

EDGE & LANE LINES FOR DIVIDED HIGHWAY



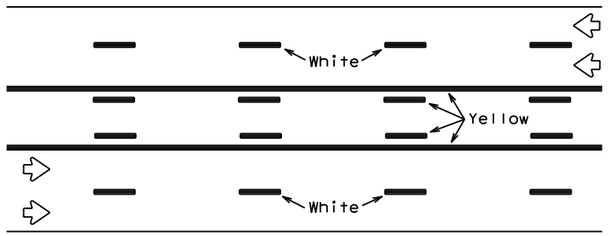
REFLECTORIZED PAVEMENT MARKINGS



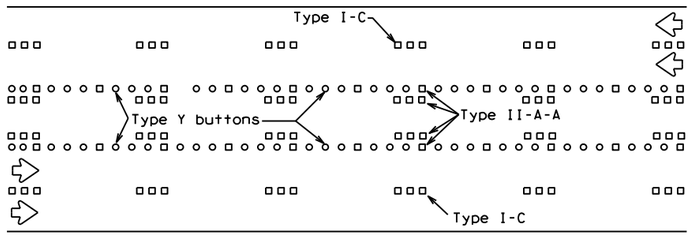
RAISED PAVEMENT MARKERS

Prefabricated markings may be substituted for reflectorized pavement markings.

LANE & CENTER LINES FOR MULTILANE UNDIVIDED HIGHWAYS



REFLECTORIZED PAVEMENT MARKINGS



RAISED PAVEMENT MARKERS

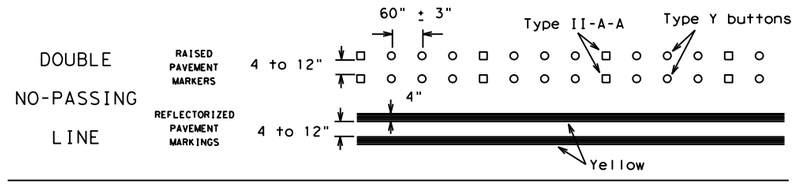
Prefabricated markings may be substituted for reflectorized pavement markings.

TWO-WAY LEFT TURN LANE

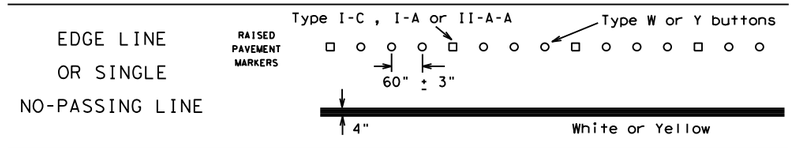
STANDARD WORK ZONE PAVEMENT MARKINGS DETAILS

SOLID LINES

DOUBLE NO-PASSING LINE

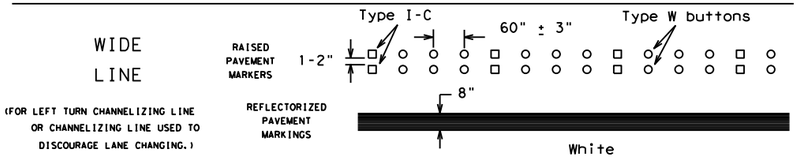


EDGE LINE OR SINGLE NO-PASSING LINE



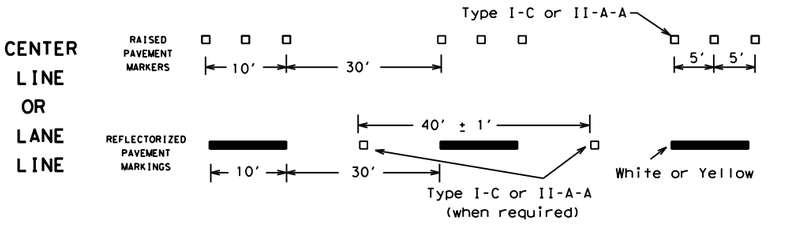
WIDE LINE

(FOR LEFT TURN CHANNELIZING LINE OR CHANNELIZING LINE USED TO DISCOURAGE LANE CHANGING.)

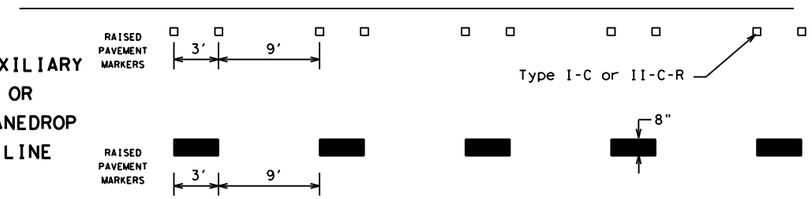


BROKEN LINES

CENTER LINE OR LANE LINE

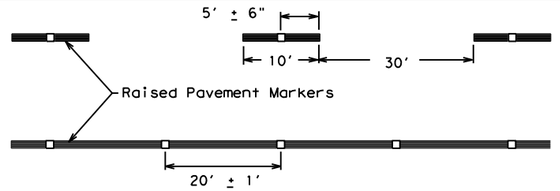


AUXILIARY OR LANEDROP LINE



REMOVABLE MARKINGS WITH RAISED PAVEMENT MARKERS

If raised pavement markers are used to supplement REMOVABLE markings, the markers shall be applied to the top of the tape at the approximate mid length of tape used for broken lines or at 20 foot spacing for solid lines. This allows an easier removal of raised pavement markers and tape.



Centerline only - not to be used on edge lines

Raised pavement markers used as standard pavement markings shall be from the approved products list and meet the requirements of Item 672 "RAISED PAVEMENT MARKERS."

Texas Department of Transportation

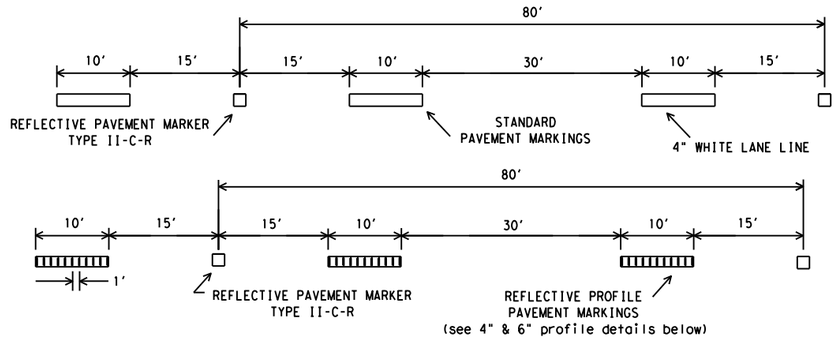
Traffic Operations Division Standard

BARRICADE AND CONSTRUCTION PAVEMENT MARKING PATTERNS

BC(12)-14

FILE: bc-14.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT February 1998	CONT	SECT	JOB	HIGHWAY
REVISIONS	0049	15	014, ETC.	SH 14, ETC.
1-97 9-07	DIST	COUNTY		SHEET NO.
2-98 7-13	BRY	ROBERTSON, ETC.		93
11-02 8-14				

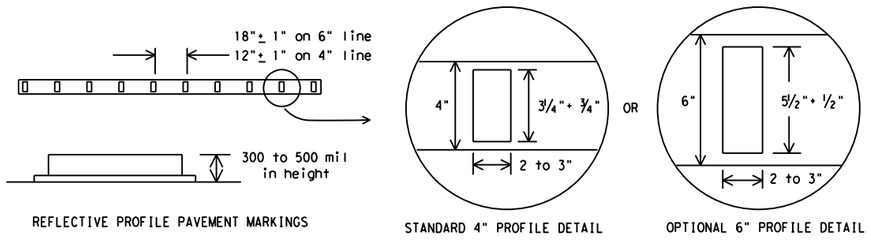
DATE: 8/5/2021
FILE: G:\004915\014\AC-Asphalt Design\10 STANDARDS\bc-14.dgn



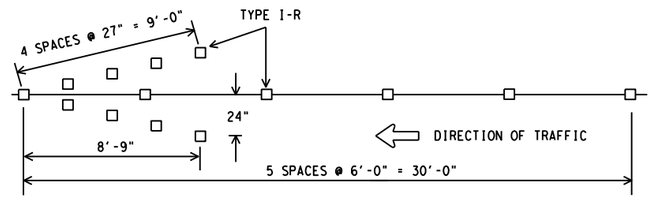
PAVEMENT MARKERS (REFL) TYPE II-C-R SHALL BE SPACED ON 80' CENTERS WITH THE CLEAR FACE TOWARD NORMAL TRAFFIC AND THE RED FACE TOWARD WRONG WAY TRAFFIC.

TRAFFIC LANE LINES PAVEMENT MARKING DETAILS

EDGELINES SHOULD TYPICALLY BE 4" WIDE AND THE MATERIALS SHALL BE AS SPECIFIED IN THE PLANS.
IF RAISED PROFILE PAVEMENT MARKINGS ARE USED SEE DETAILS BELOW.



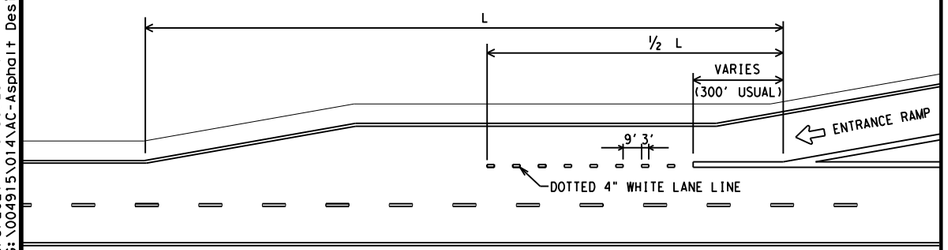
EDGELINE PAVEMENT MARKINGS



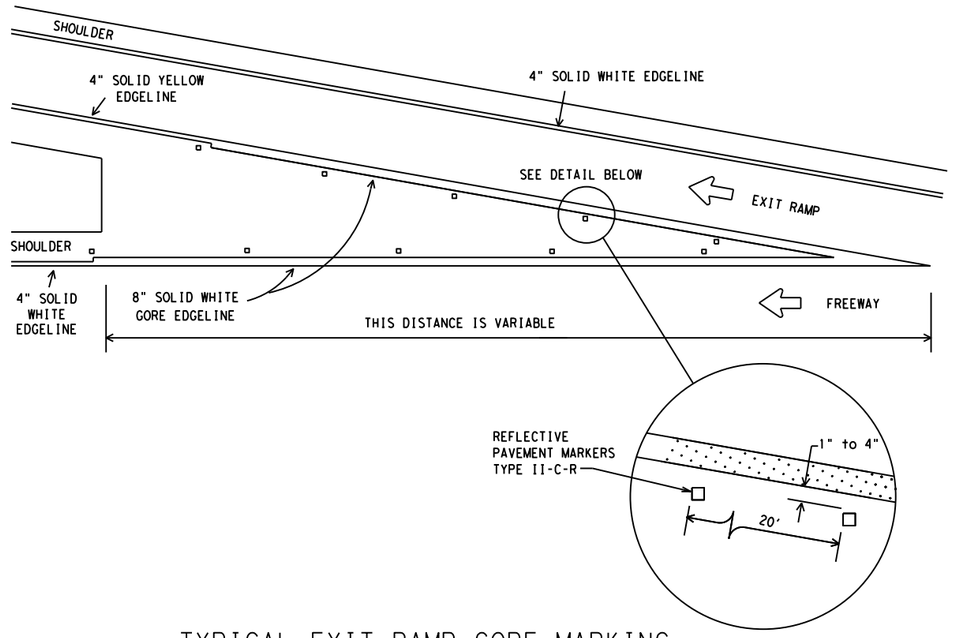
ALL RAISED MARKERS IN THE WRONG WAY ARROW SHALL BE TYPE I-R REFLECTORIZED PAVEMENT MARKERS WITH THE REFLECTORIZED SURFACE FACING THE WRONG WAY TRAFFIC. TYPE II-C-R SHALL NOT BE USED.

REFLECTORIZED WRONG WAY ARROWS, NOT TO EXCEED TWO, MAY BE PLACED ON EXIT RAMPS.
LOCATION OF THE ARROWS SHALL BE AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

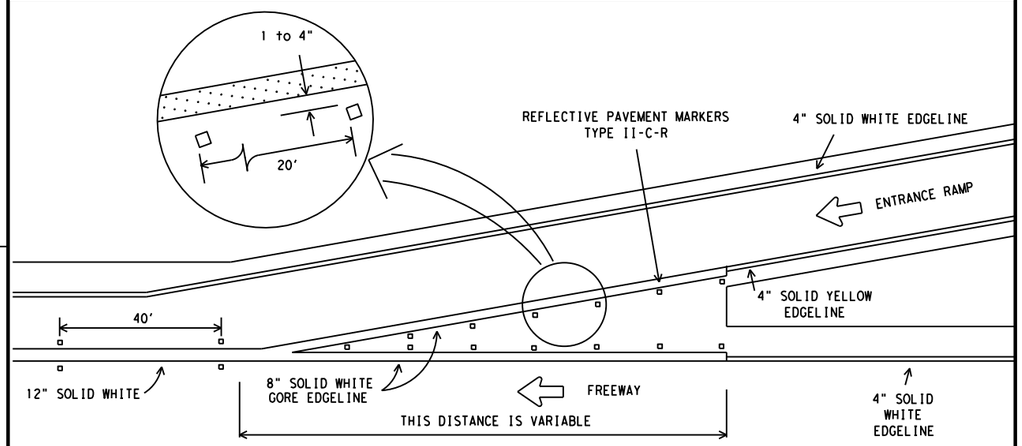
WRONG WAY ARROW DETAIL



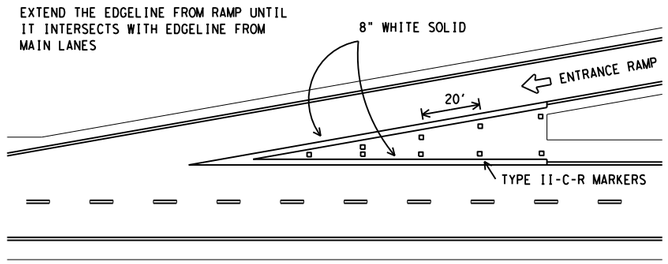
PARALLEL ACCELERATION LANE



TYPICAL EXIT RAMP GORE MARKING



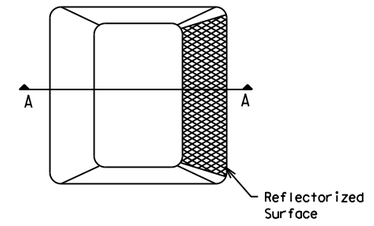
TYPICAL ENTRANCE RAMP GORE MARKING



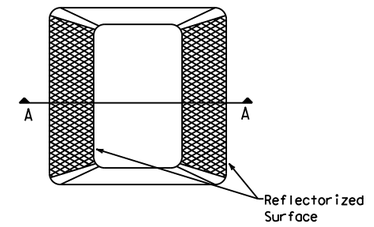
TAPERED ACCELERATION LANE

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

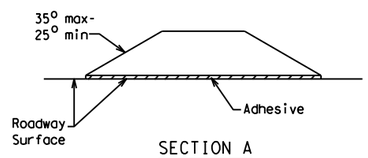
All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.



Type I (Top View)



Type II (Top View)



SECTION A

RAISED PAVEMENT MARKERS

Texas Department of Transportation
Traffic Operations Division

TYPICAL STANDARD FREEWAY PAVEMENT MARKINGS WITH RAISED PAVEMENT MARKERS

FPM(1)-12

DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT

REVISIONS		CONT	SECT	JOB	HIGHWAY
4-92	2-10	0049	15	014, ETC.	SH 14, ETC.
5-00	2-12	DIST	COUNTY		SHEET NO.
8-00		BRY	ROBERTSON, ETC.		94
2-08					

23A

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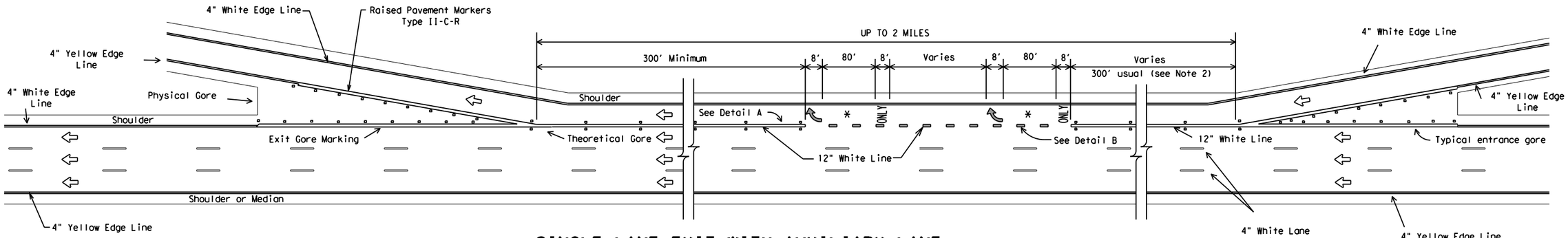
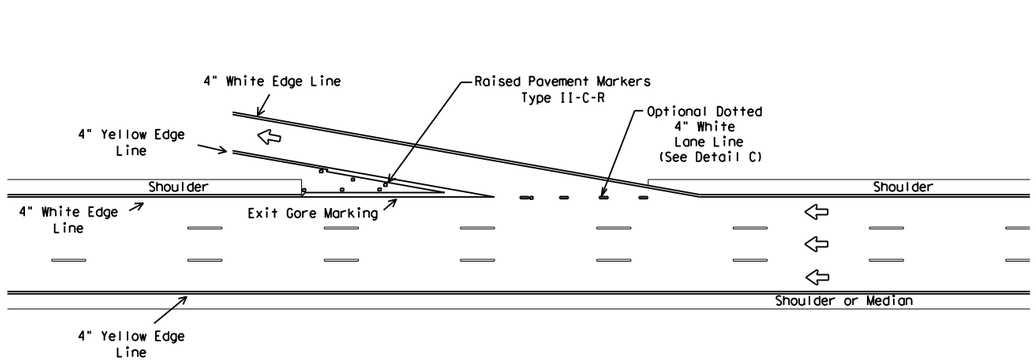
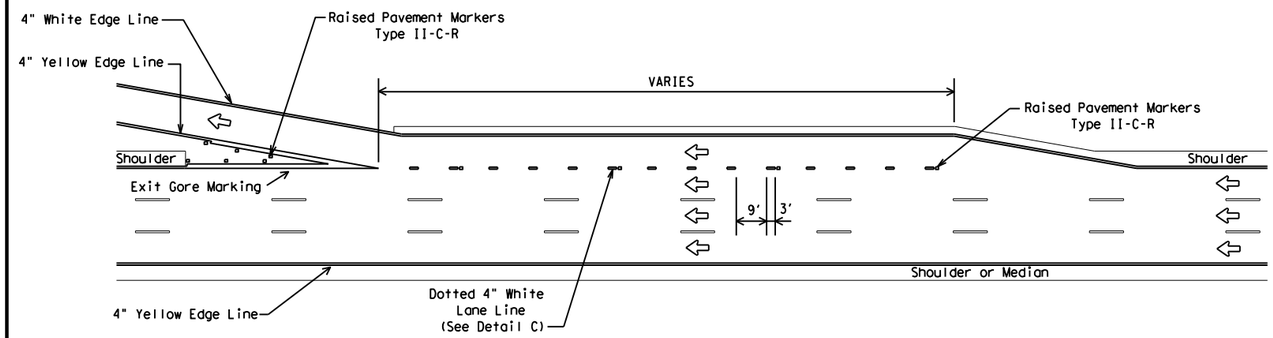


SINGLE LANE EXIT WITH AUXILIARY LANE

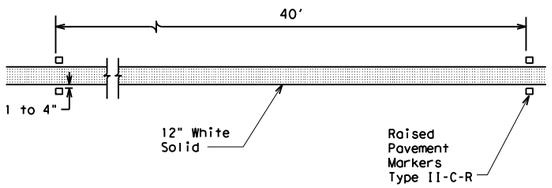
(See Note 2)



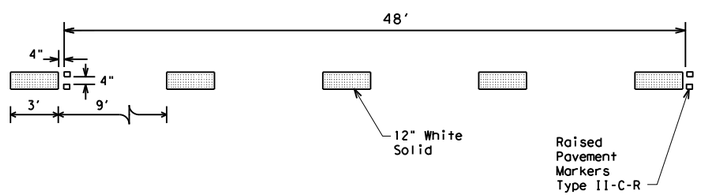
TAPERED DECELERATION LANE



PARALLEL DECELERATION LANE

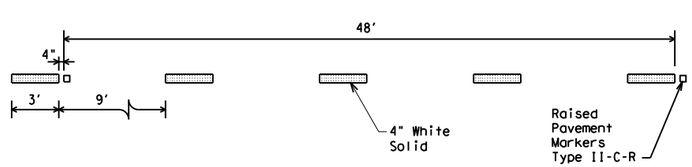


DETAIL A



DETAIL B

Wide (12") Dotted Lane Line (See Note 3)



DETAIL C

Normal (4") Dotted Lane Line (See Note 4)

GENERAL NOTES

1. Pavement markings shall be white except as otherwise noted.
2. Length of 12" white line may vary depending on location.
3. Wide (12") Dotted Lane Line (See Detail B) is used to separate a through lane from a lane drop at normal exit ramp and from an auxiliary lane between an entrance and exit ramp.
4. Normal (4") Dotted Lane Line (See Detail C) is used at parallel acceleration and deceleration lanes.

LEGEND	
⇦	Denotes direction of traffic.
↱	Pavement marking arrows (white)
✳	Arrow markings are optional, however "ONLY" is required if arrow is used

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

All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

Texas Department of Transportation
Traffic Operations Division

TYPICAL STANDARD FREEWAY PAVEMENT MARKINGS ENTRANCE AND EXIT RAMPS

FPM(2)-12

DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT

REVISIONS
4-92 2-10
8-95 2-12
5-00
8-00

CONT	SECT	JOB	HIGHWAY
0049	15	014, ETC.	SH 14, ETC.
DIST	COUNTY		SHEET NO.
BRY	ROBERTSON, ETC.		95

23B

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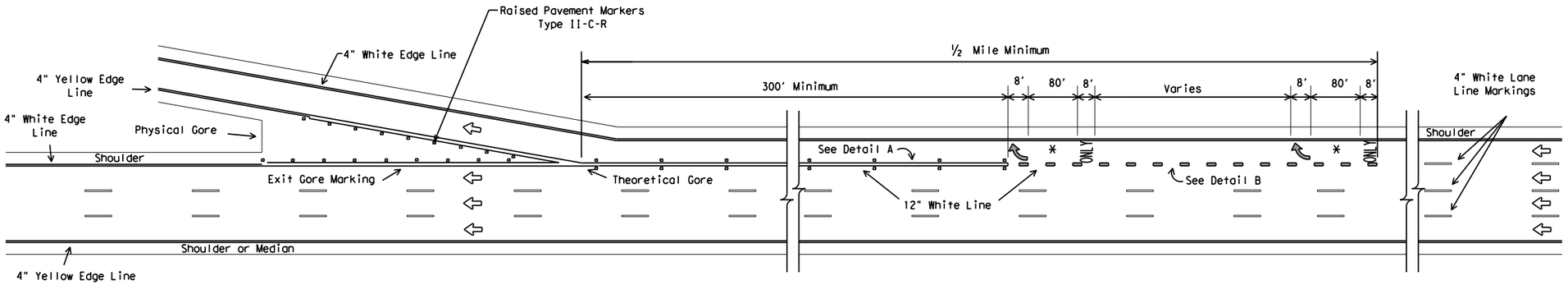
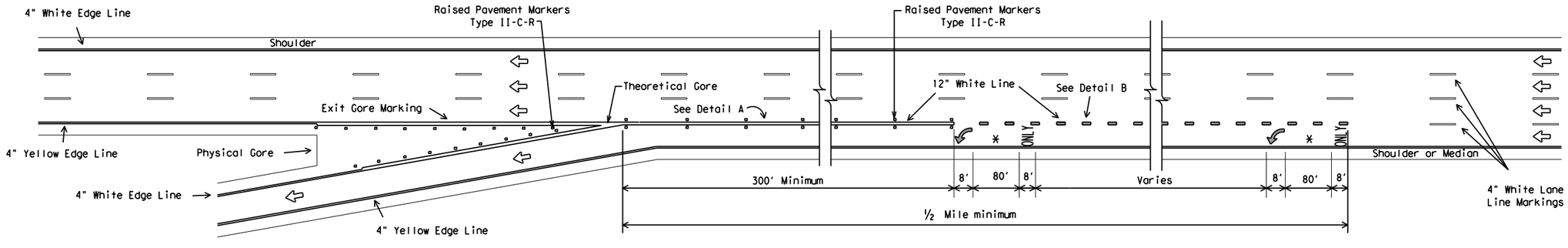


SINGLE LANE EXIT - LANE DROP OR EXIT ONLY

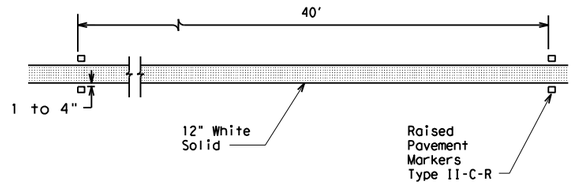


SINGLE LANE EXIT - LANE DROP OR EXIT ONLY (LEFTHAND)

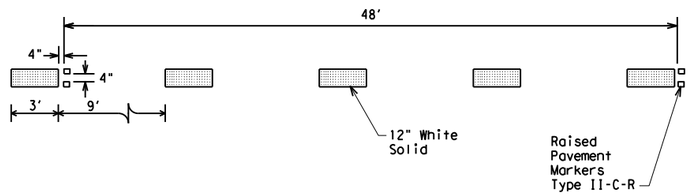
LEGEND	
⇦	Denotes direction of traffic.
↱	Pavement marking arrows (white)
✳	Arrow markings are optional, however "ONLY" is required if arrow is used

GENERAL NOTES

1. Pavement markings shall be white except as otherwise noted.
2. Length of 12" white line may vary depending on location.
3. Wide (12") Dotted Lane Line (See Detail B) is used to separate a through lane from a lane drop at normal exit ramp and from an auxiliary lane between an entrance and exit ramp.



DETAIL A



DETAIL B

Wide (12") Dotted Lane Line (See Note 3)

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

All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

Texas Department of Transportation
Traffic Operations Division

TYPICAL STANDARD FREEWAY PAVEMENT MARKINGS LANE DROP (EXIT ONLY) EXIT RAMPS

FPM(3)-12

DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT

REVISIONS
5-00
8-00
2-10
2-12

CONT	SECT	JOB	HIGHWAY
0049	15	014, ETC.	SH 14, ETC.

DIST	COUNTY	SHEET NO.
BRY	ROBERTSON, ETC.	96

23C

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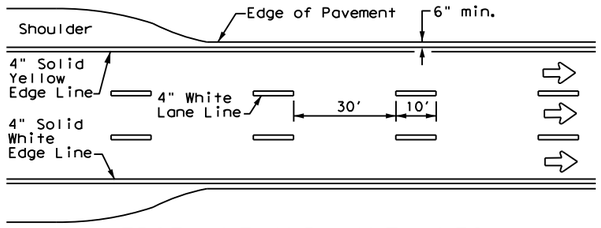
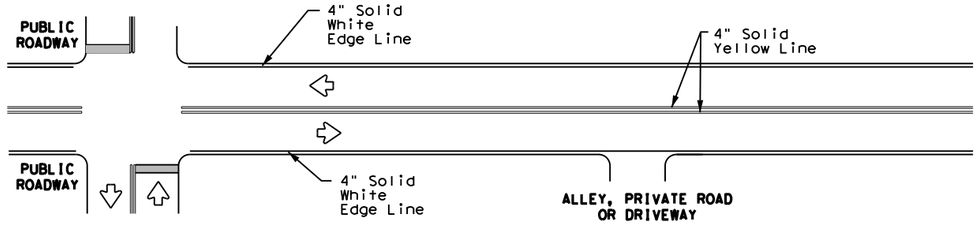
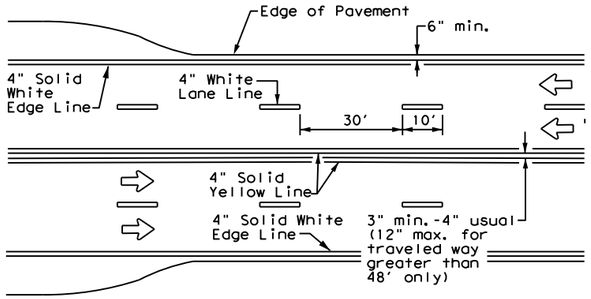


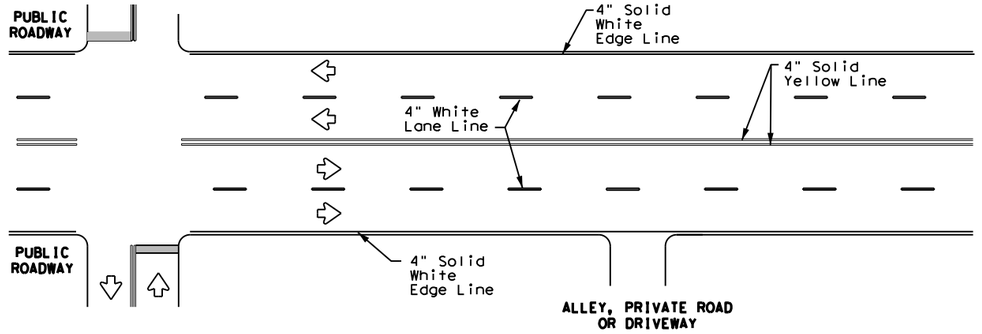
EDGE LINE AND LANE LINES ONE-WAY ROADWAY WITH OR WITHOUT SHOULDERS



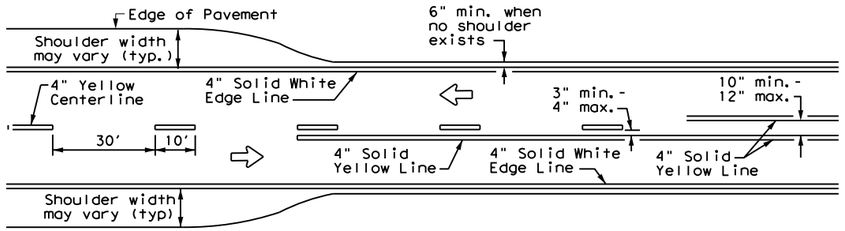
TYPICAL TWO-LANE, TWO-WAY PAVEMENT MARKINGS THROUGH INTERSECTIONS



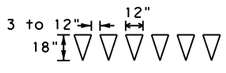
CENTERLINE AND LANE LINES FOUR LANE TWO-WAY ROADWAY WITH OR WITHOUT SHOULDERS



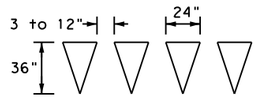
TYPICAL MULTI-LANE, TWO-WAY PAVEMENT MARKINGS THROUGH INTERSECTIONS



TWO LANE TWO-WAY ROADWAY WITH OR WITHOUT SHOULDERS

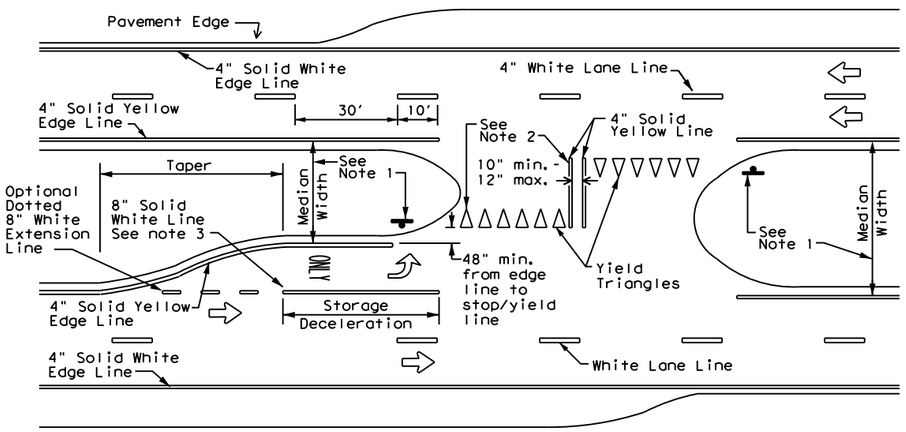


For posted speed on road being marked equal to or less than 40 MPH.



For posted speed on road being marked equal to or greater than 45 MPH.

YIELD LINES



FOUR LANE DIVIDED ROADWAY CROSSOVERS

NOTES

1. Where divided highways are separated by median widths at the median opening itself of 30 feet or more, median openings shall be signed as two separate intersections. Each median opening has two width measurements, with one measurement for each approach. The narrow median width will be the controlling width to determine if signs are required. Yield signs are the typical intersection control. Stop signs are optional as determined by the Engineer.

2. Install median striping (double yellow centerlines and stop bars/yield triangles) when a 50' or greater median centerline can be placed. Stop bars shall only be used with stop signs. Yield traingles shall only be used with yield signs.

3. Length of turn bays, including taper, deceleration, and storage lengths shall be as shown on the plans or as directed by the Engineer.

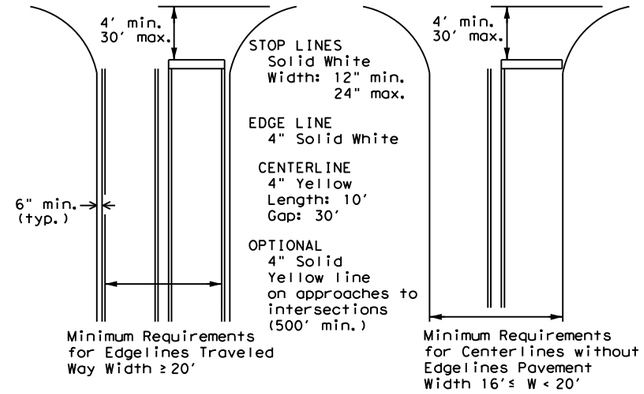
GENERAL NOTES

1. Edgeline striping shall be as shown in the plans or as directed by the Engineer. The edgeline should not be placed less less than 6 inches from the edge of pavement. This distance may vary due to pavement raveling or other conditions. Edgelines are not required in curb and gutter sections of roadways.

2. The traveled way includes only that portion of the roadway used for vehicular travel. It does not include the parking lanes, sidewalks, berms and shoulders. The traveled ways shall be measured from the inside of edgeline to the inside of edgeline of a two lane roadway.

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

All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.



GUIDE FOR PLACEMENT OF STOP LINES, EDGE LINE & CENTERLINE

Based on Traveled Way and Pavement Widths for Undivided Highways

Texas Department of Transportation

Traffic Safety Division Standard

TYPICAL STANDARD PAVEMENT MARKINGS

PM(1)-20

FILE: pm1-20.dgn	DN:	CK:	DW:	CK:
© TxDOT November 1978	CONT	SECT	JOB	HIGHWAY
REVISIONS 8-95 3-03	0049	15	014, ETC.	SH 14, ETC.
5-00 2-12	DIST	COUNTY		SHEET NO.
8-00 6-20	BRY	ROBERTSON, ETC.		97

22A

DATE: 8/5/2021 10:50:49 AM
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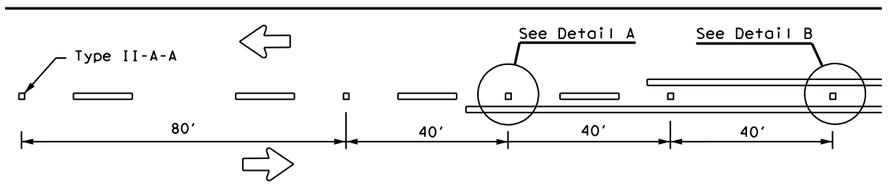
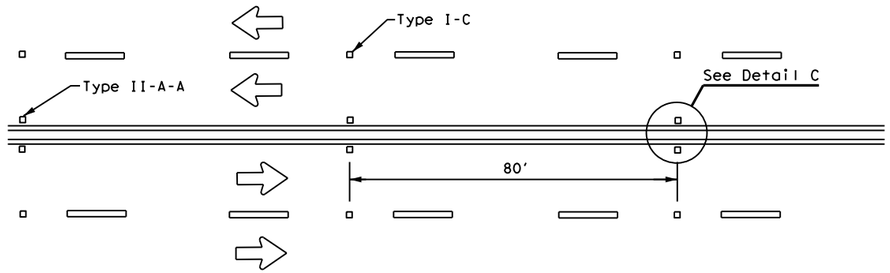
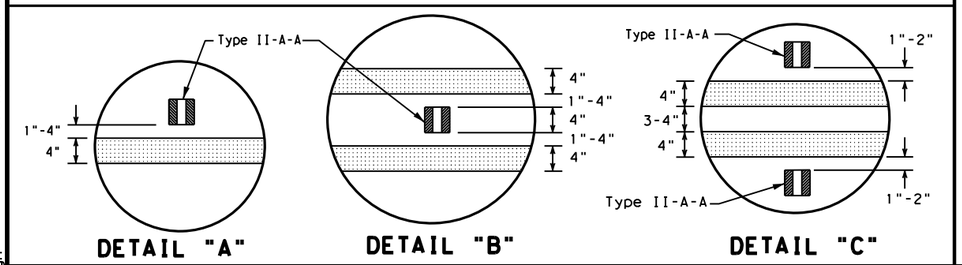
REFLECTIVE RAISED PAVEMENT MARKERS FOR VEHICLE POSITIONING GUIDANCE



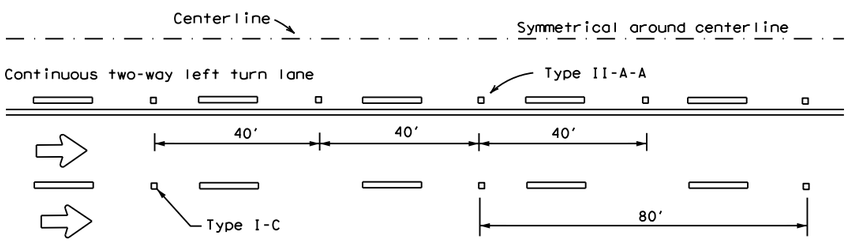
CENTERLINE FOR ALL TWO LANE ROADWAYS



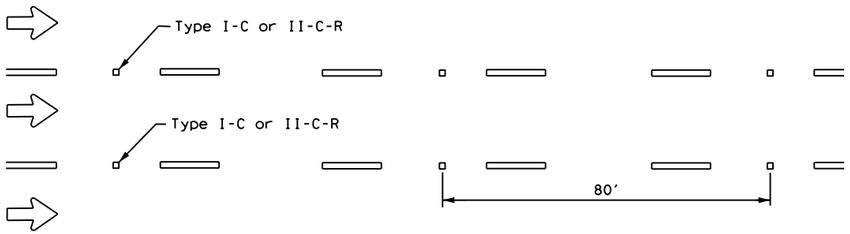
CENTERLINE & LANE LINES FOR FOUR LANE TWO-WAY HIGHWAYS



DETAIL "A" **DETAIL "B"** **DETAIL "C"**

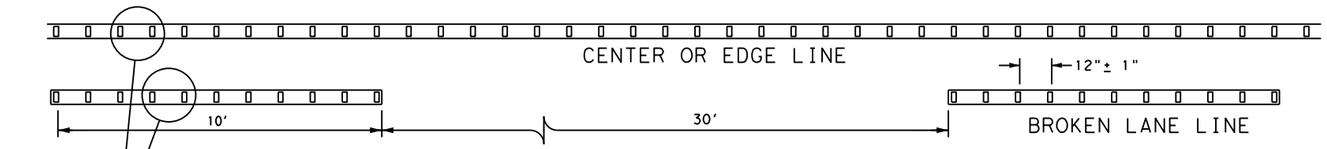


CENTERLINE AND LANE LINES FOR TWO-WAY LEFT TURN LANE



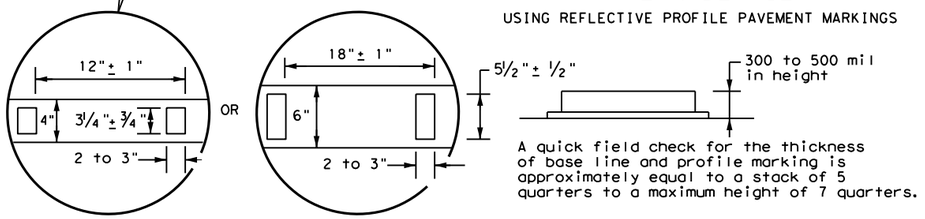
LANE LINES FOR ONE-WAY ROADWAY (NON-FREEWAY FACILITIES)

Raised pavement markers Type II-C-R shall have clear face toward normal traffic and red face toward wrong-way traffic.



REFLECTORIZED PROFILE PATTERN DETAIL

USING REFLECTIVE PROFILE PAVEMENT MARKINGS



4" EDGE LINE, CENTER LINE OR LANE LINE

OPTIONAL 6" EDGE LINE, CENTER LINE OR LANE LINE

A quick field check for the thickness of base line and profile marking is approximately equal to a stack of 5 quarters to a maximum height of 7 quarters.

NOTE

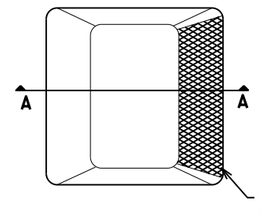
Profile markings shall not be placed on roadways with a posted speed limit of 45 MPH or less.

GENERAL NOTES

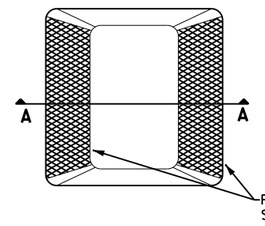
1. All raised pavement markers placed in broken lines shall be placed in line with and midway between the stripes.
2. On concrete pavements the raised pavement markers should be placed to one side of the longitudinal joints.

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

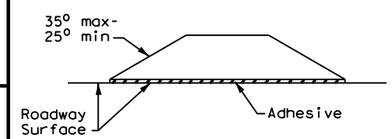
All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.



Type I (Top View)



Type II (Top View)



SECTION A

RAISED PAVEMENT MARKERS

Texas Department of Transportation

Traffic Safety Division Standard

POSITION GUIDANCE USING RAISED MARKERS RELECTORIZED PROFILE MARKINGS PM(2)-20

FILE: pm2-20.dgn	DN:	CK:	DW:	CK:
©TxDOT April 1977	CONT	SECT	JOB	HIGHWAY
REVISIONS 4-92 2-10 5-00 2-12 8-00 6-20	0049	15	014, ETC.	SH 14, ETC.
	DIST	COUNTY		SHEET NO.
	BRY	ROBERTSON, ETC.		98

22B

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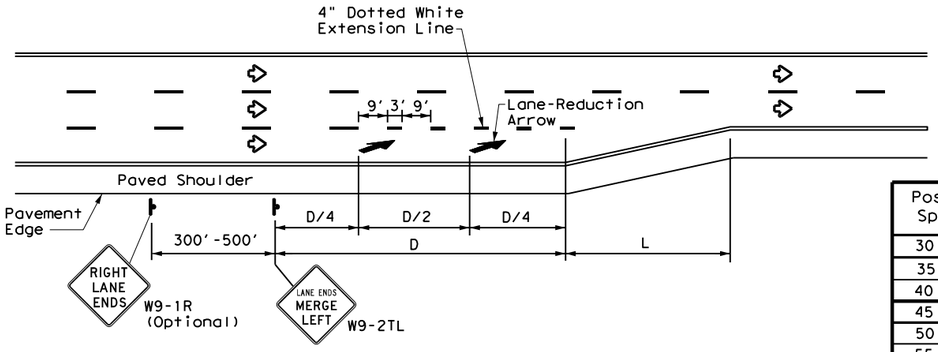
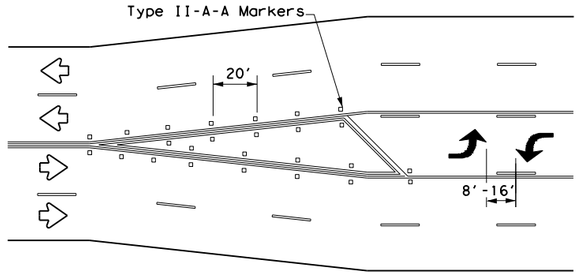


LANE REDUCTION

Posted Speed	D (ft)	L (ft)
30 MPH	460	$L=\frac{WS^2}{60}$
35 MPH	565	
40 MPH	670	
45 MPH	775	L=WS
50 MPH	885	
55 MPH	990	
60 MPH	1,100	
65 MPH	1,200	
70 MPH	1,250	
75 MPH	1,350	

NOTES

1. Lane reduction pavement markings are used where the number of through lanes is reduced because of narrowing of the roadway or because of a section of on-street parking in what would otherwise be a through lane. For Texas Super 2 Passing Lanes, see TS2(PL) standard sheets.
2. On divided highways, an additional W9-1R "RIGHT LANE ENDS" sign may be installed in the median aligned with the W9-1R sign on the right side of the highway.
3. Lane reduction arrows are required for speeds of 45 mph or greater. An optional third lane reduction arrow may be added based on engineering judgement. If used, the optional third lane reduction arrow should be centered between the first and last lane reduction arrows.
4. For lane reductions on Freeways and Expressways, signing shall conform to the TxDOT Freeway Signing Handbook.



A two-way left-turn (TWLT) lane-use arrow pavement marking should be used at or just downstream from the beginning of a two-way left-turn lane within a corridor. Repeating the marking after each intersection or dedicated turn bay is not required unless stated elsewhere in the plans.

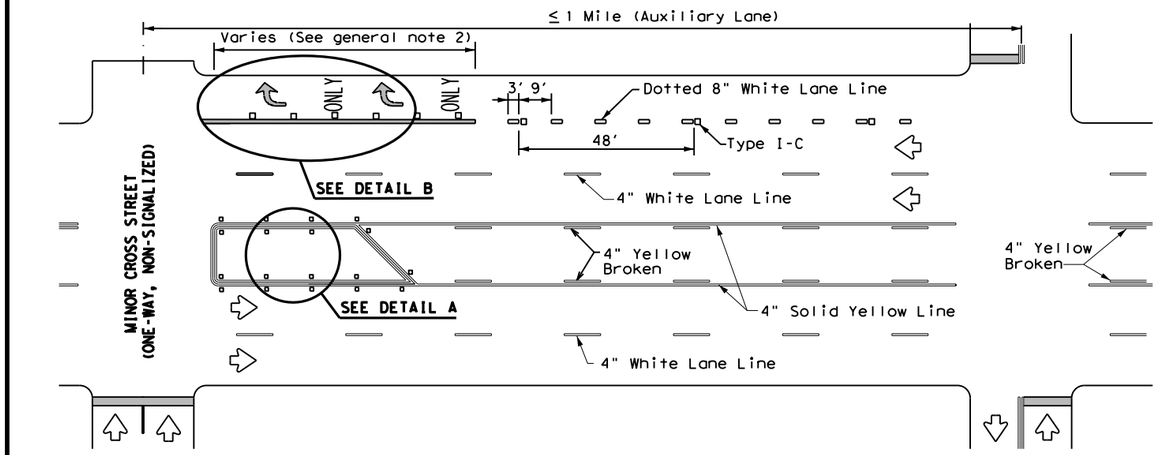
TYPICAL TRANSITION FOR TWLTL AND DIVIDED HIGHWAY

GENERAL NOTES

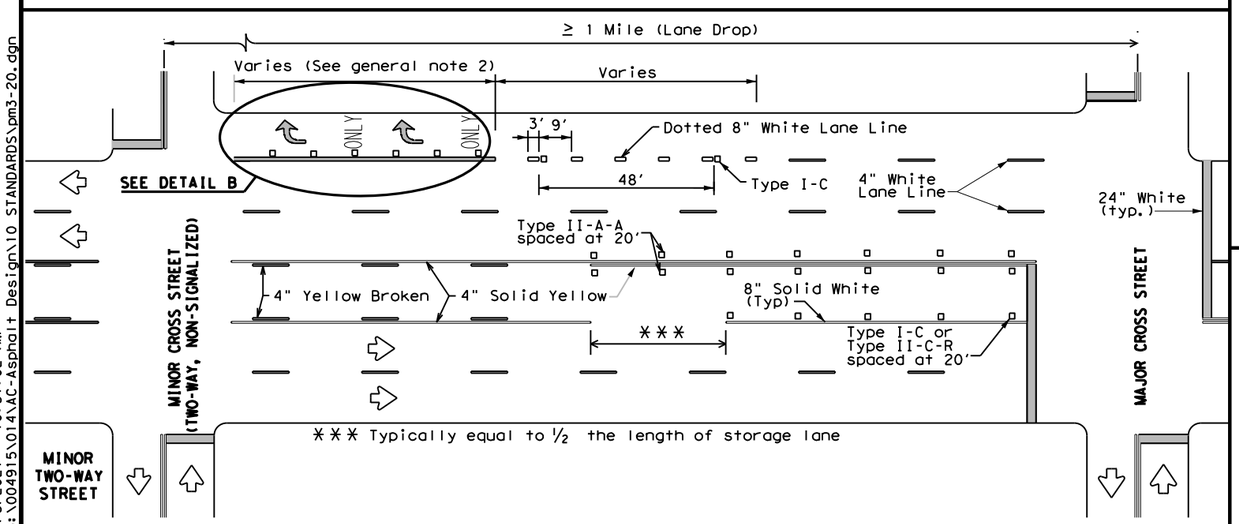
1. Lane use word and arrow markings shall be used where through lanes approaching an intersection become mandatory turn lanes. Lane use word and arrow markings should be used in auxiliary lanes of substantial length. Lane use arrow markings or word and arrow markings may be used in other lanes and turn bays for emphasis. Details for words and arrows are as shown in the Standard Highway Sign Designs for Texas.
2. When lane-use words and arrow markings are used, two sets of arrows should be used if the length of the bay is greater than 180 feet. When a single lane use arrow or word and arrow marking is used for a short turn lane, it should be located at or near the upstream end of the full-width turn lane.
3. Use raised pavement marker Type I-C with undivided highways, flush medians and two way left turn lanes. Use raised pavement marker Type II-C-R with divided highways and raised medians.
4. Length of turn bays, including taper, deceleration, and storage lengths shall be as shown on the plans or as directed by the Engineer.

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

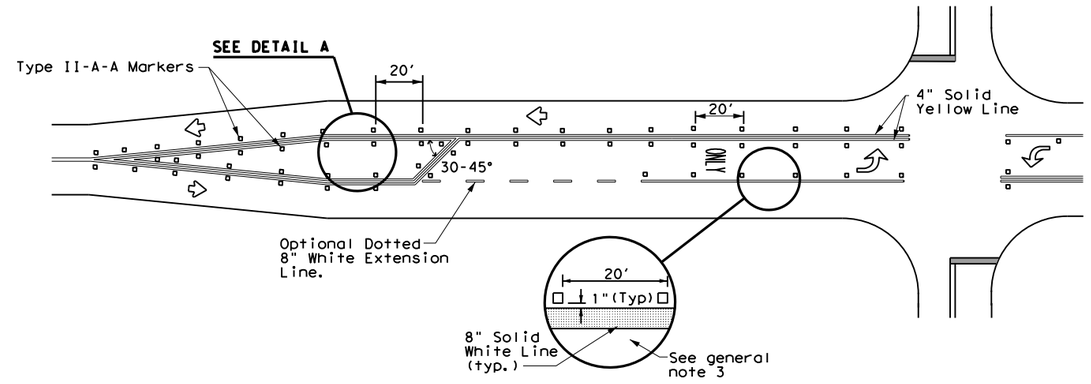
All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.



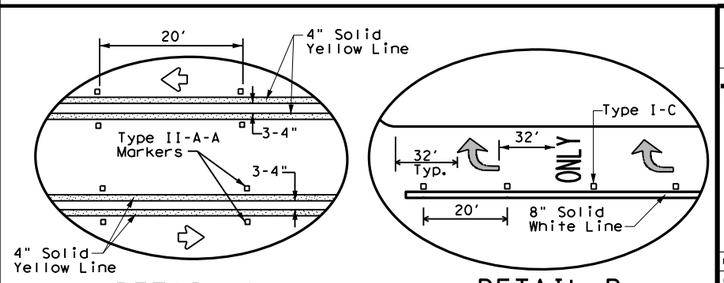
TYPICAL TWLTL AT ONE-WAY STREET AND RIGHT TURN AUXILIARY LANE



TYPICAL TWLTL AT TWO-WAY CROSS STREET AND RIGHT TURN LANE DROP



TYPICAL TWO-LANE HIGHWAY INTERSECTION WITH LEFT TURN BAYS



Texas Department of Transportation

Traffic Safety Division Standard

TWO-WAY LEFT TURN LANES, RURAL LEFT TURN BAYS, AND LANE REDUCTION PAVEMENT MARKINGS PM(3)-20

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©TxDOT April 1998	CONT	SECT	JOB	HIGHWAY
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8-00 2-12	BRY	ROBERTSON, ETC.		99
3-03 6-20				

220

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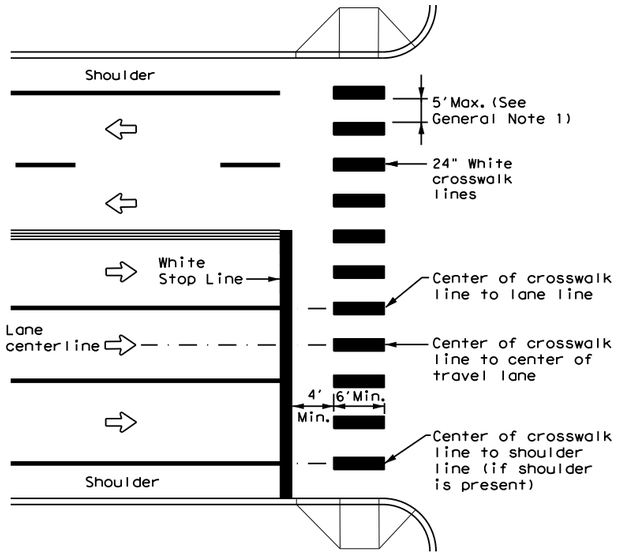


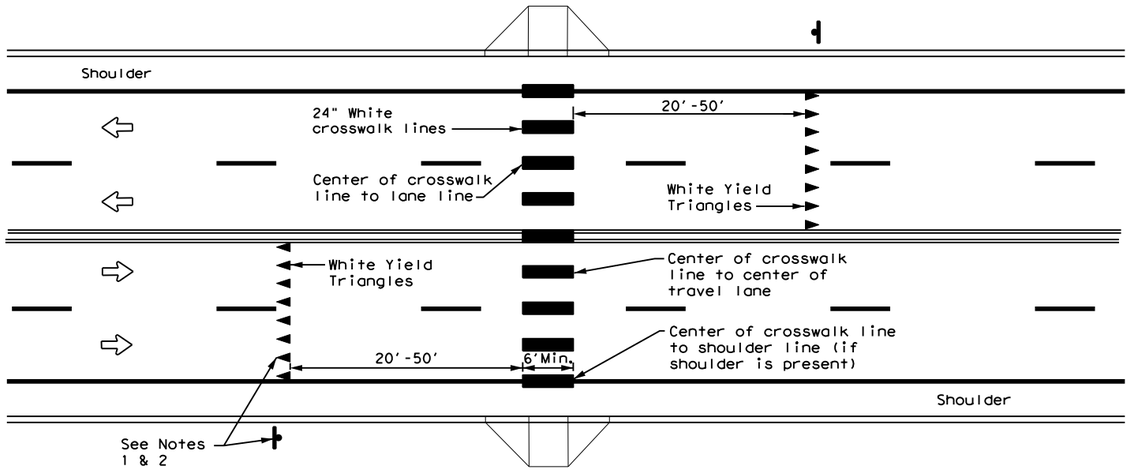
HIGH-VISIBILITY LONGITUDINAL CROSSWALK AT CONTROLLED APPROACH

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/Yield Triangles 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

All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.



UNSIGNALIZED MID BLOCK HIGH-VISIBILITY LONGITUDINAL CROSSWALK

NOTES

1. Use yield triangles with "Yield Here to Pedestrians" signs at unsignalized mid block crosswalks.
2. Use stop bars with "Stop Here on Red" signs at mid block crosswalks controlled by traffic signals or pedestrian hybrid beacons.

Texas Department of Transportation

Traffic Safety Division Standard

CROSSWALK PAVEMENT MARKINGS

PM(4)-20

FILE: pm4-20.dgn	DN:	CK:	DW:	CK:
© TxDOT June 2020	CONT	SECT	JOB	HIGHWAY
REVISIONS	0049	15	014, ETC.	SH 14, ETC.
	DIST	COUNTY		SHEET NO.
	BRY	ROBERTSON, ETC.		100

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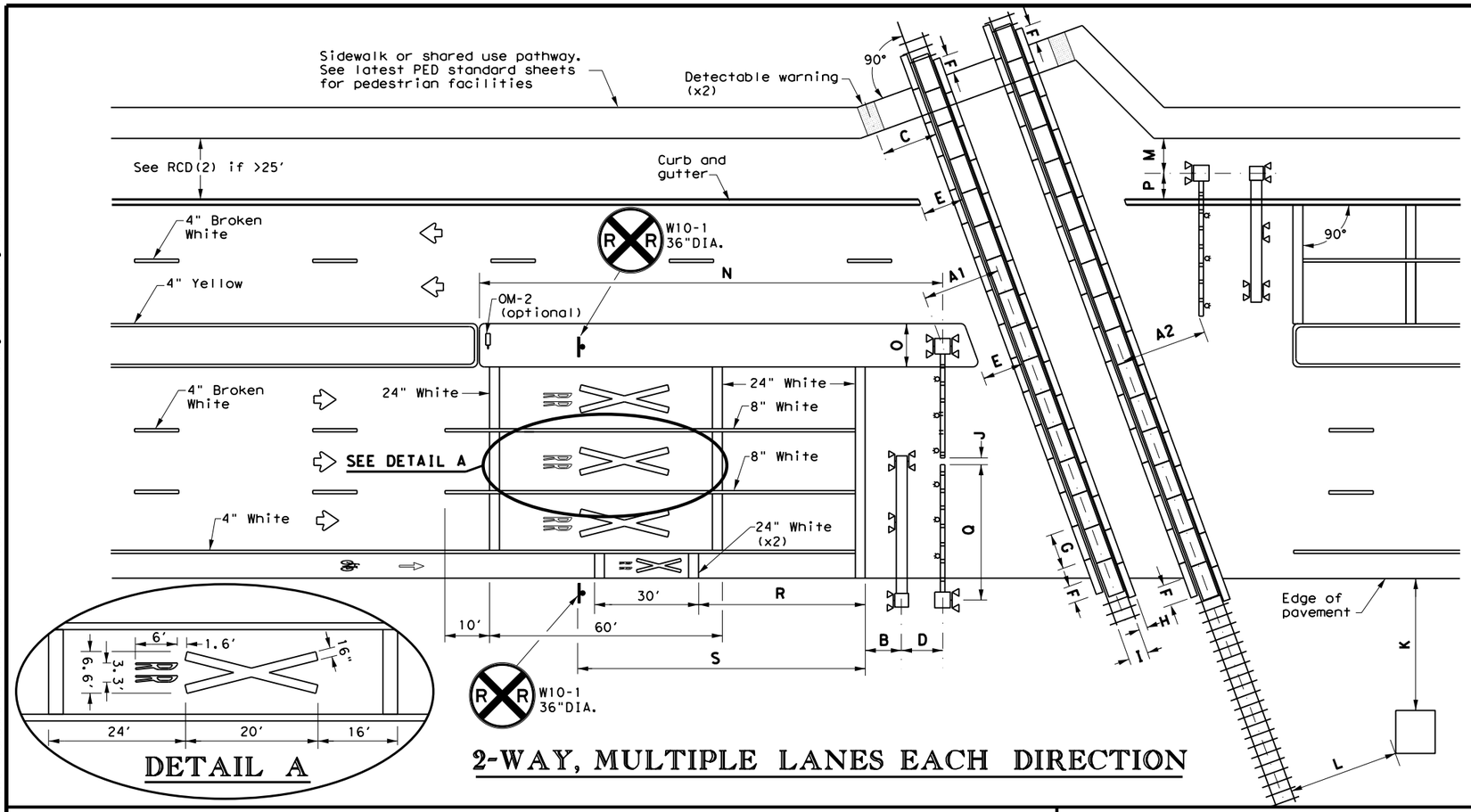


2-WAY, MULTIPLE LANES EACH DIRECTION

DETAIL A

NOTES

A1: Center of RR mast to center of rail: 12' minimum, 15' typical.

A2: Tip of gate to center of rail: 12' minimum, 15' typical.

B: Center of mast (cantilever, gate, or mast flasher) of nearest active traffic control device to stop line: 8' (NOTE: Stop line may be moved as needed, but should be at least 8' back from gates, if present).

C: Center of detectable warning device to nearest rail: 6' minimum

D: Center of gate mast to center of cantilever mast: 6' typical. NOTE: Cantilever may be located in front or behind gates.

E: Edge of median or curb to nearest rail: 10' typical. NOTE: Design median edge to be parallel with rail.

F: Edge of planking panel from edge of pavement or sidewalk: 3' minimum. NOTE: Field panels need not be in line with gauge panels.

G: Length of panels along rail: 8' typical.

H: Width of field panel: 2' typical (check with railroad company).

I: Distance between rails: 4'-8.5".

J: Tip of gate to tip of gate: 2' maximum for Quiet Zone SSM or 90% of traveled way covered by gates for all other locations.

K: Nearest edge of RR cabin from edge of pavement: 30' typical. NOTE: Cabinet not required to be parallel to edge of pavement.

L: Nearest edge of RR cabin from nearest rail: 25' typical.

M: Center of RR mast to edge of sidewalk: 6' minimum.

N: Center of gate mast to leading edge of non-traversable median: 100' minimum to qualify as a Quiet Zone SSM. NOTE: 60'will suffice if there is a street intersection within the 100' and all street intersections within 60' are closed.

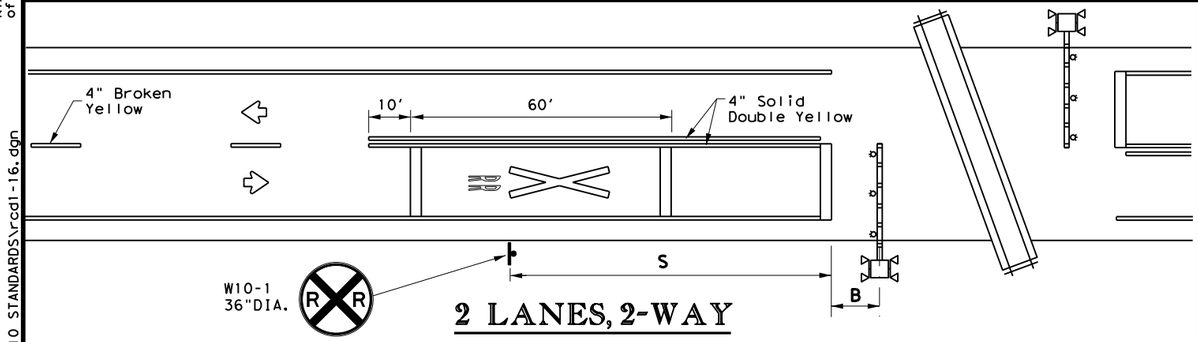
O: Width of median: 8'-6" minimum, 10' typical when using median gates. NOTE: Center of gate mast minimum 4'-3" from face of curb.

P: Center of RR mast to face of curb: 4'-3" minimum. Center of RR mast to edge of pavement (with shoulder): 6' minimum Center of RR mast to edge of pavement (no shoulder): 8'-3" minimum NOTE: BNSF prefers 5'-3", 7', and 9'-3" minimums, respectively.

Q: Gate length: 28' or less typical, but railroad company may allow up to 32'under special circumstances.

R: Stop line to first RR Crossing transverse line (bike lane): 50' typical.

S: Stop line to GRADE CROSSING ADVANCE WARNING (W10-1) sign and adjacent RR Crossing pavement markings. See Table 1. See RCD(2) for other signs.



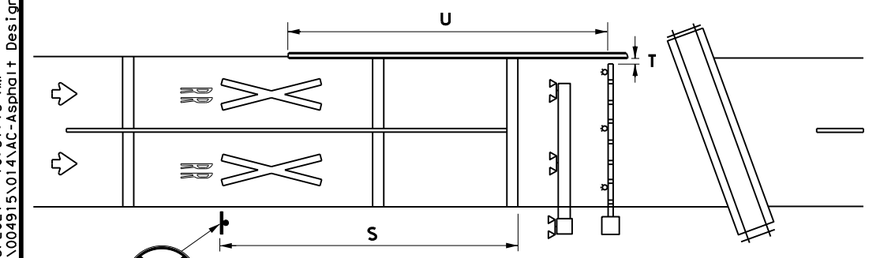
2 LANES, 2-WAY

TABLE 1	
Approach Speed (mph)	Desirable Placement (feet)
20	100
25	100
30	100
35	100
40	125
45	175
50	250
55	325
60	400
65	475
70	550
75	650

LEGEND	
	Sign
	Object Marker
	Traffic Flow
	Cantilever
	Gate Assembly
	Mast Flasher Pair

GENERAL NOTES

1. Medians and curbs must be non-traversable to qualify as a Quiet Zone Supplementary Safety Measure (SSM). Non-traversable curbs in Quiet Zones are 6" tall minimum and used on roadways where speed does not exceed 40 mph.
2. Raised pavement markers may be used to supplement striping. See PM(2) and PM(3) standard sheets.
3. Medians preferred whenever possible to prevent vehicles from driving around gates.
4. Longitudinal edge striping may be continued thru crossing as needed. Illumination may also be considered for nighttime visibility.
5. See SMD standard sheets for sign mounting details.
6. See the Standard Highway Sign Design for Texas (SHSD) manual for sign and pavement marking details.

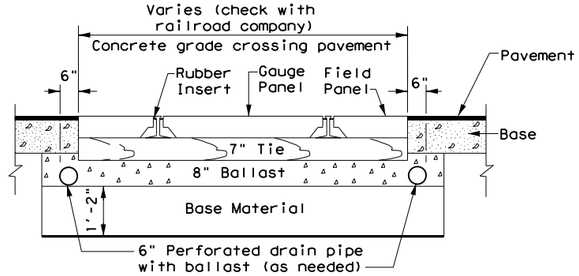


1-WAY STREET WITH CURB

NOTES

T: Tip of gate to edge of curb: 1' max for Quiet Zone SSM, 90% of traveled way covered by gates for all other locations

U: Non-traversable curb length from gate: 100' min. for a Quiet Zone SSM, 10' min for all other locations.



CROSSING SURFACE CROSS SECTION

Texas Department of Transportation

Traffic Operations Division Standard

RAILROAD CROSSING DETAILS SIGNING, STRIPING, AND DEVICE PLACEMENT RCD(1)-16

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©TxDOT FEBRUARY 2016	CONT	SECT	JOB	HIGHWAY
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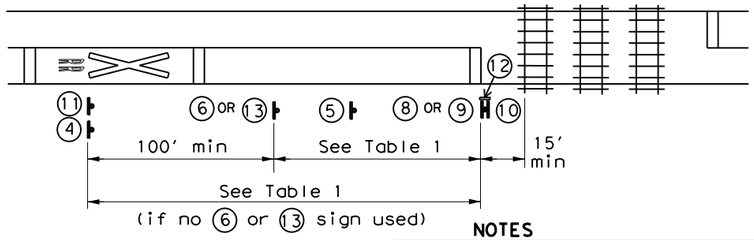
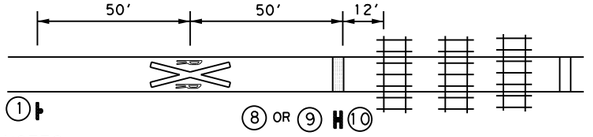


NOTES

1. Stop or yield sign may also be installed to the left of the crossbuck sign, rather than below it.
2. A 2" white retroreflective strip shall be installed on front and back of crossbuck sign post.

PASSIVE CROSSING



NOTES

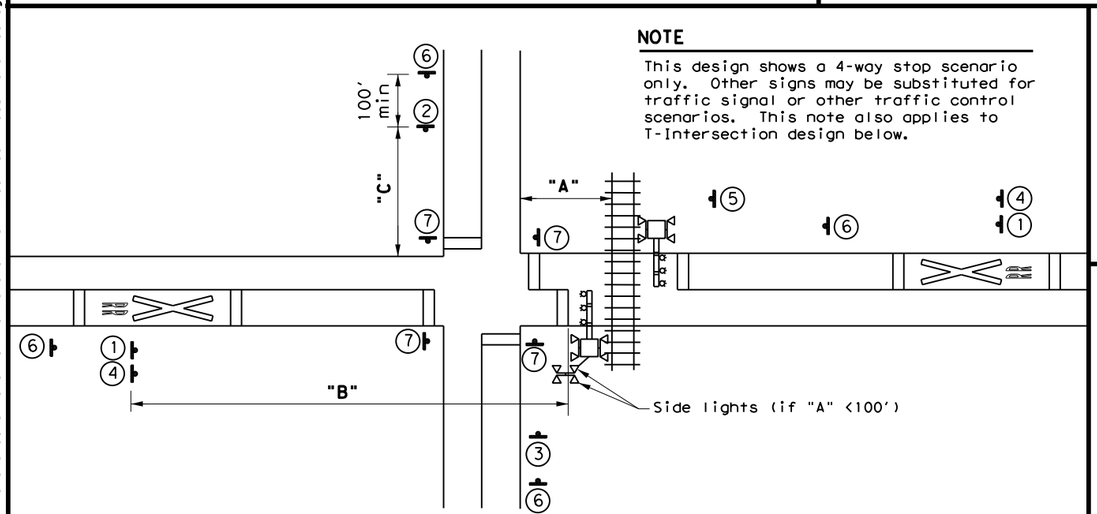
1. A shared use pathway is considered a separate pathway crossing when more than 25' from traveled way of adjacent roadway.
2. Detectable warning used at stop bar.
3. Smaller sign sizes preferred than shown to the right on this sheet.

PATHWAY CROSSING

TABLE 1	
Approach Speed (mph)	Desirable Placement (feet)
20	100
25	100
30	100
35	100
40	125
45	175
50	250
55	325
60	400
65	475
70	550
75	650

GENERAL NOTES

1. Railroad company to provide active traffic control devices, CROSSBUCK (R15-1), NUMBER OF TRACKS Plaque (R15-2P) (if more than 1 track), and EMERGENCY NOTIFICATION (I-13) signs.
2. LOW GROUND CLEARANCE (W10-5) signs may be relocated further upstream of crossing to provide advance warning of alternate route.
3. GRADE CROSSING AND INTERSECTION ADVANCE WARNING (W10-2) signs may be modified as needed to fit roadway geometry.
4. Table 1 placement distances may vary per Sect. 2C.05 of the TMUTCD.
5. See Table 1 to determine placement of STOP AHEAD (W3-1) and YIELD AHEAD (W3-2) signs unless shown otherwise.
6. DO NOT STOP ON TRACKS (R8-8) signs installed when potential for vehicles stopping on tracks is significant as determined by sealing engineer. Install so sign does not block view of RR mast.
7. See the Standard Highway Sign Design for Texas (SHSD) manual for sign and pavement marking details.

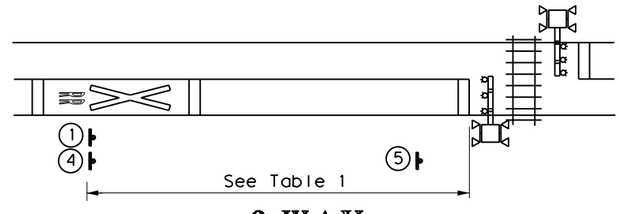


NOTE

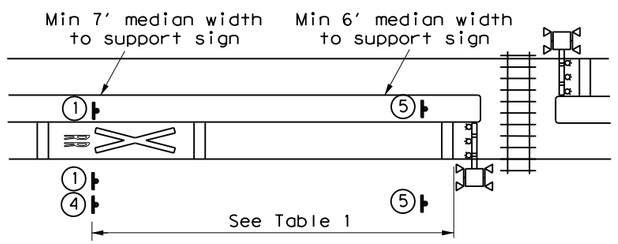
This design shows a 4-way stop scenario only. Other signs may be substituted for traffic signal or other traffic control scenarios. This note also applies to T-Intersection design below.

	"A" <100'	"A" ≥100'
"B"	See Table 1. Place pavement markings and signs on opposite side of intersection from rail if spacing from Table 1 would put markings within intersection.	See Table 1. Place pavement markings and signs between rail and intersection if spacing from Table 1 would put markings within intersection.
"C"	See Table 1.	GRADE CROSSING AND INTERSECTION ADVANCE WARNING (W10-2, W10-3, W10-4) signs should only be installed if W10-1 sign is not between intersection and railroad crossing. If needed, see Table 1.

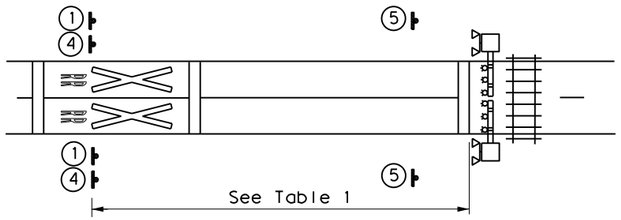
GRADE CROSSING NEAR A PARALLEL STREET



2-WAY



2-WAY WITH MEDIAN



1-WAY

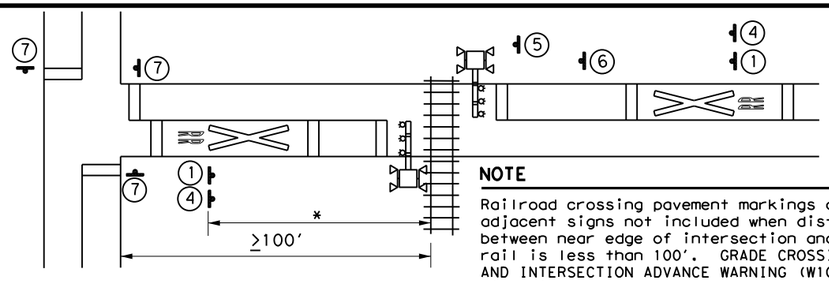
SIGNS

** R R — 1 W10-1 36"DIA.	** — 2 W10-2L 36"X36"	** — 3 W10-2R 36"X36"	IF NEEDED — 4 W10-5 36"X36" / LOW GROUND CLEARANCE W10-5P 30"x24"
IF NEEDED — DO NOT STOP ON TRACKS — 5 R8-8 24"X30"	IF NEEDED — 6 W3-1 30"X30"	STOP R1-1 36"X36" / ALL WAY R1-3P 18"X6" — 7	RAIL CROSSING ROAD 3 TRACKS R15-1 48"X9" / R15-2P 27"X18" / STOP R1-1 36"X36" — 8
RAIL CROSSING ROAD 3 TRACKS R15-1 48"X9" / R15-2P 27"X18" / YIELD R1-2 48"X48"X48" — 9	RAIL CROSSING ROAD 3 TRACKS R15-1 48"X9" / R15-2P 27"X18" — 10	R R W10-1 36"DIA. / NO GATES OR LIGHTS W10-13P 30"X24" — 11 **	REPORT EMERGENCY OR PROBLEM 1-800-555-5555 CROSSING 836 597 H — Sign may be placed perpend. to travel lanes. — 12 I-13 15"X9"
IF NEEDED — 13 W3-2 30"X30"			

** Includes a NO TRAIN HORN Plaque (W10-9P) if crossing is in a Quiet Zone. LOW GROUND CLEARANCE Plaque (W10-5P) if needed is mounted below W10-2/W10-3/W10-4 signs.

NO TRAIN HORN W10-9P 30"X24"

LOW GROUND CLEARANCE W10-5P 30"X24"

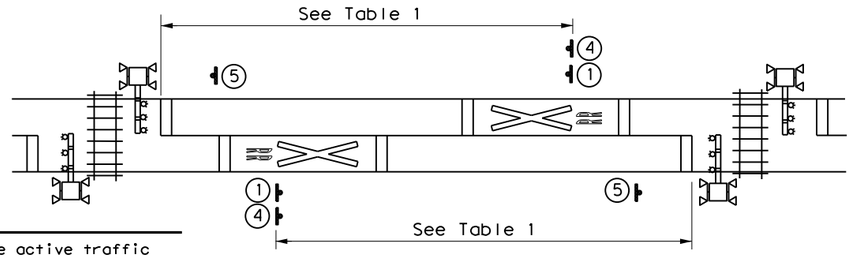


*Use Table 1 if sufficient space exists.

NOTE

Railroad crossing pavement markings and adjacent signs not included when distance between near edge of intersection and near rail is less than 100'. GRADE CROSSING AND INTERSECTION ADVANCE WARNING (W10-3) signs installed on roadway parallel with rail in this case.

T-INTERSECTION



NOTE

Separate active traffic control devices, railroad crossing pavement markings, and adjacent signs required when tracks are more than 100' apart.

2 ADJACENT CROSSINGS

Texas Department of Transportation

Traffic Operations Division Standard

RAILROAD CROSSING DETAILS SIGNING & STRIPING

RCD(2)-16

FILE: rcd2-16.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT FEBRUARY 2016	CONT	SECT	JOB	HIGHWAY
REVISIONS	0049	15	014, ETC.	SH 14, ETC.
	DIST	COUNTY		SHEET NO.
	BRY	ROBERTSON, ETC.		102

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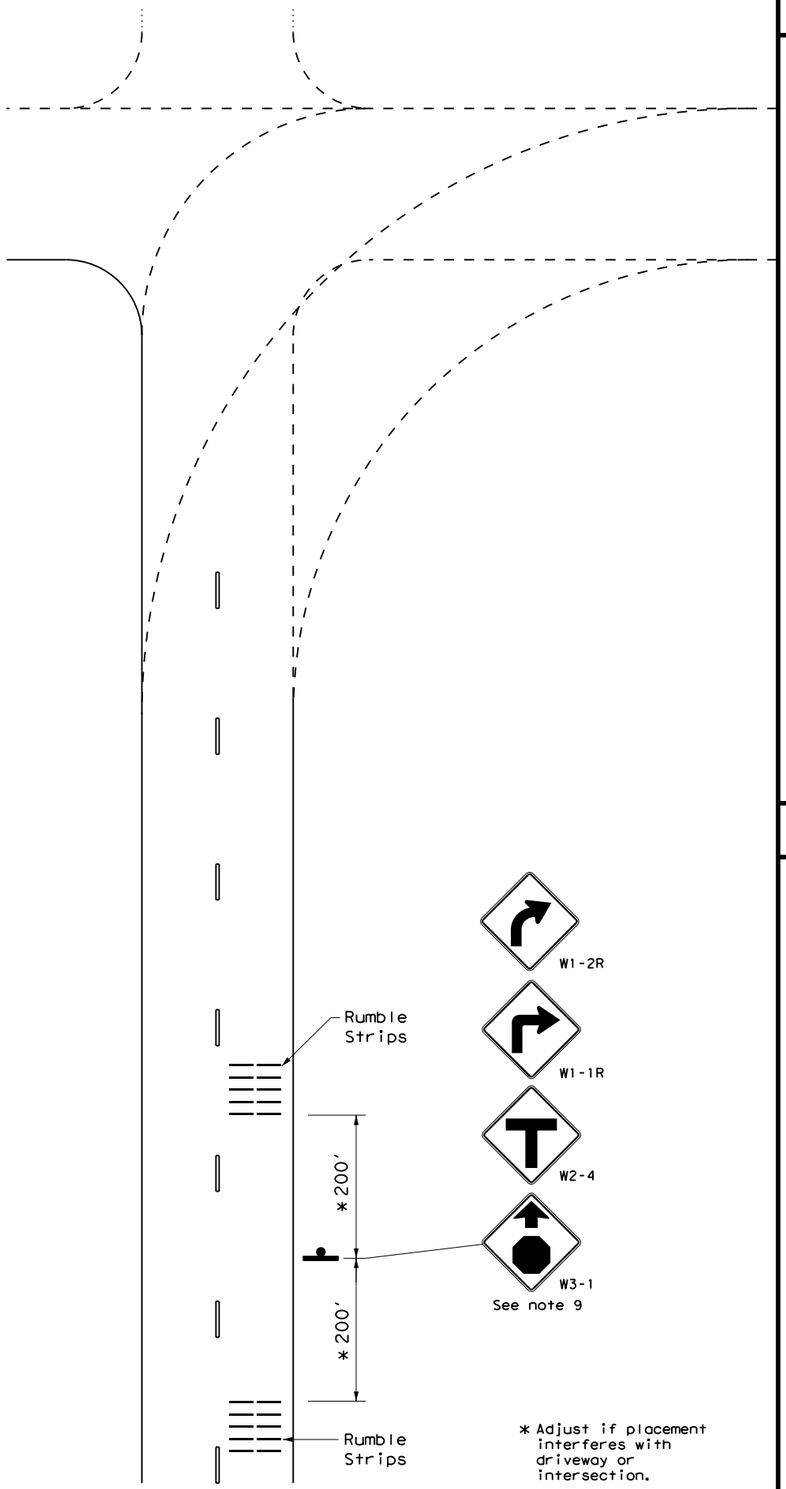
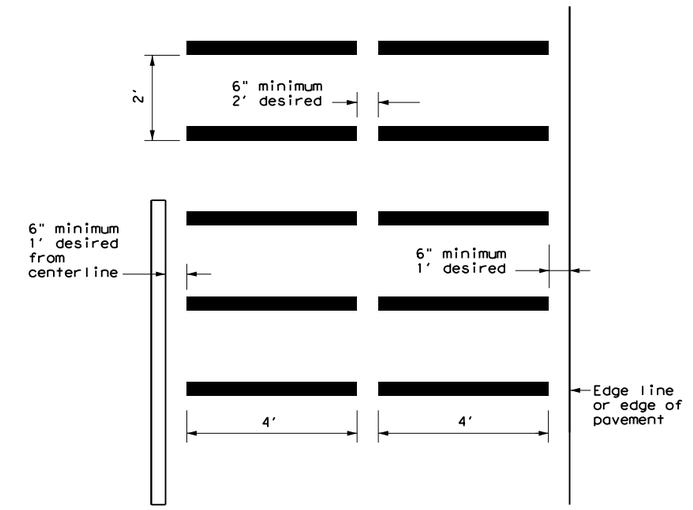
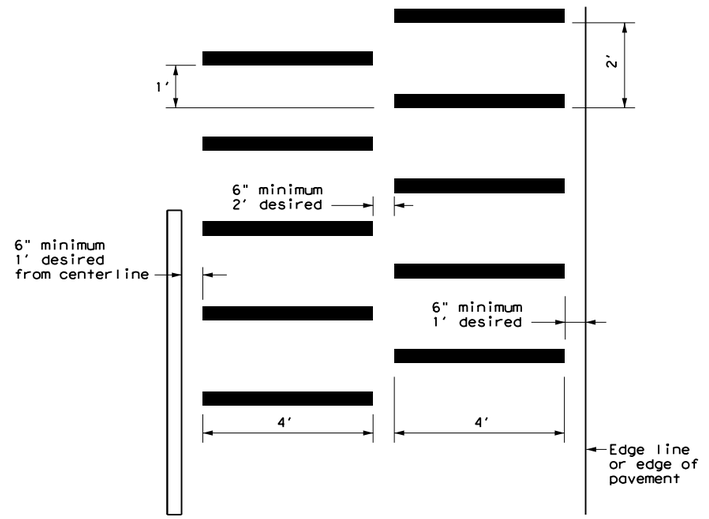


STANDARD PATTERN



ALTERNATIVE PATTERN



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".

W17-2T

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.

Texas Department of Transportation

Traffic Operations Division Standard

TRANSVERSE OR IN-LANE RUMBLE STRIPS

RS(5)-13

FILE: rs(5)-13.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT April 2006	CONT	SECT	JOB	HIGHWAY
REVISIONS	0049	15	014, ETC.	SH 14, ETC.
2-10	DIST	COUNTY		SHEET NO.
10-13	BRY	ROBERTSON, ETC.		103

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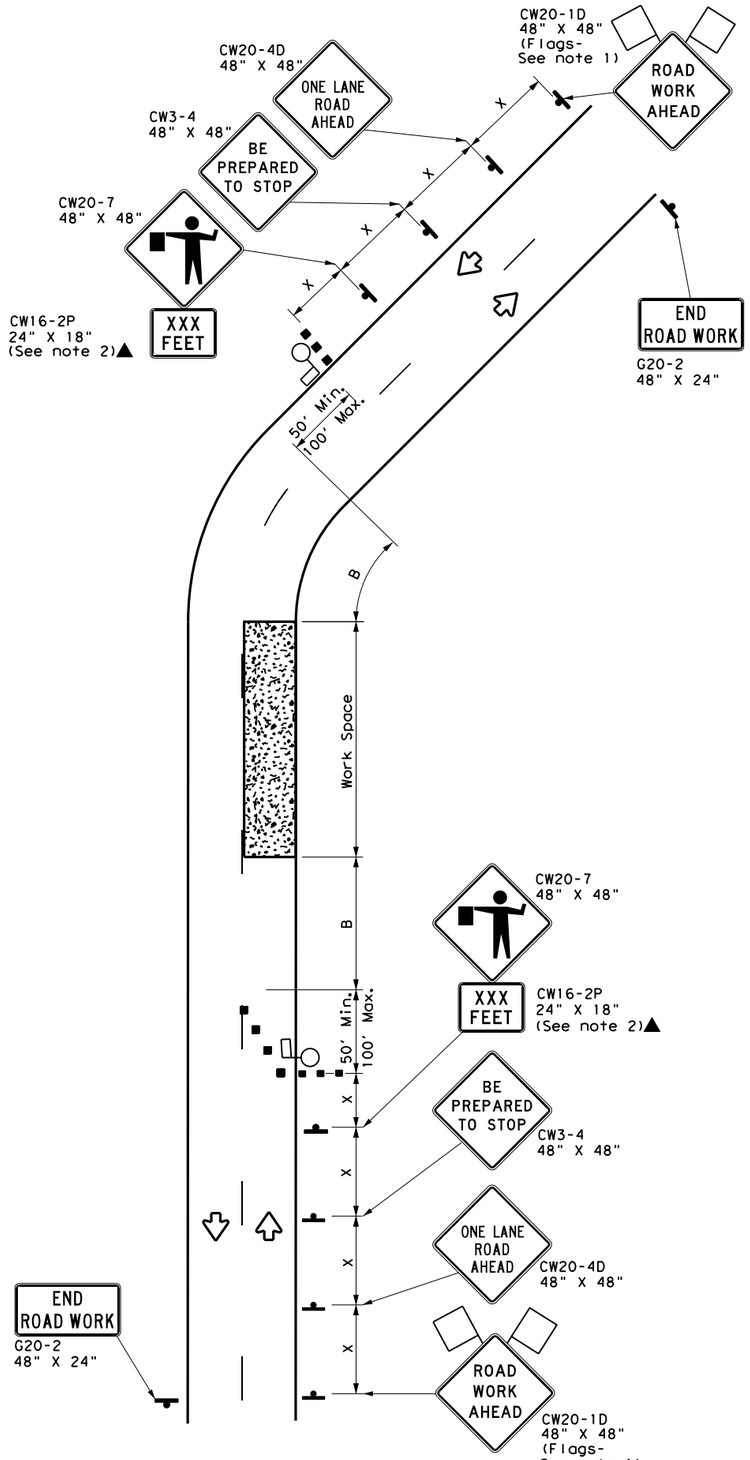
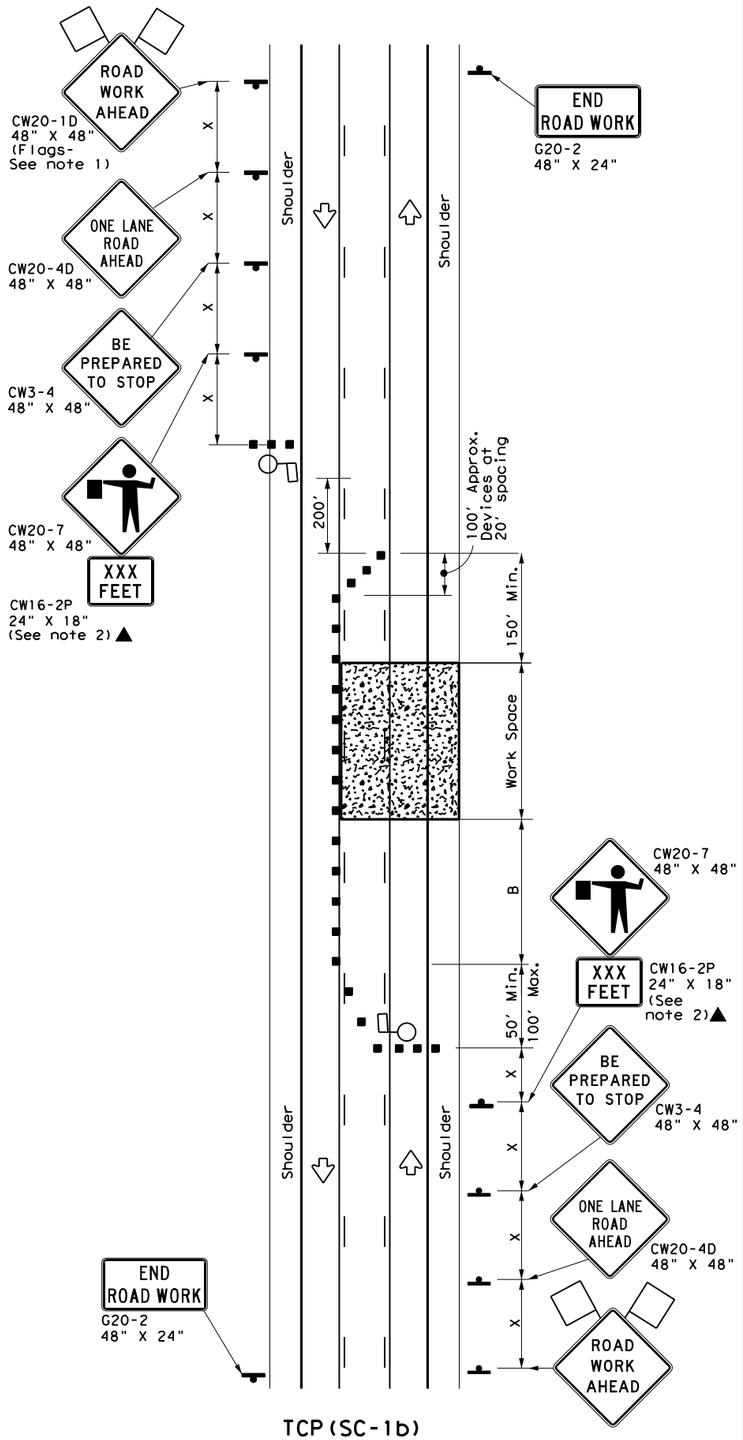


TCP(SC-1a)

ONE LANE TWO-WAY (2 LANES) CONTROL WITH PILOT VEHICLE



TCP(SC-1b)

ONE LANE TWO-WAY (3 LANES) CONTROL WITH PILOT VEHICLE AND CHANNELIZING DEVICES

LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"	Stopping Sight Distance
30	$L=\frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'	200'
35		205'	225'	245'	35'	70'	160'	120'	250'
40		265'	295'	320'	40'	80'	240'	155'	305'
45	L=WS	450'	495'	540'	45'	90'	320'	195'	360'
50		500'	550'	600'	50'	100'	400'	240'	425'
55		550'	605'	660'	55'	110'	500'	295'	495'
60		600'	660'	720'	60'	120'	600'	350'	570'
65		650'	715'	780'	65'	130'	700'	410'	645'
70		700'	770'	840'	70'	140'	800'	475'	730'
75		750'	825'	900'	75'	150'	900'	540'	820'

* 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 DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓		

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.
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 to emergency situations.
7. 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.
9. Temporary rumble strips are not required on seal coat operations.
10. 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.

TCP (SC-1a)

1. Channelizing devices on the center-line may be omitted when a pilot car is leading traffic.

Texas Department of Transportation — Traffic Safety Division Standard

TRAFFIC CONTROL PLAN SEAL COAT OPERATIONS

TCP(SC-1)-21

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©TxDOT April 2021	CONT	SECT	JOB	HIGHWAY
REVISIONS	0049	15	014, ETC.	SH 14, ETC.
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	BRY	ROBERTSON, ETC.		104

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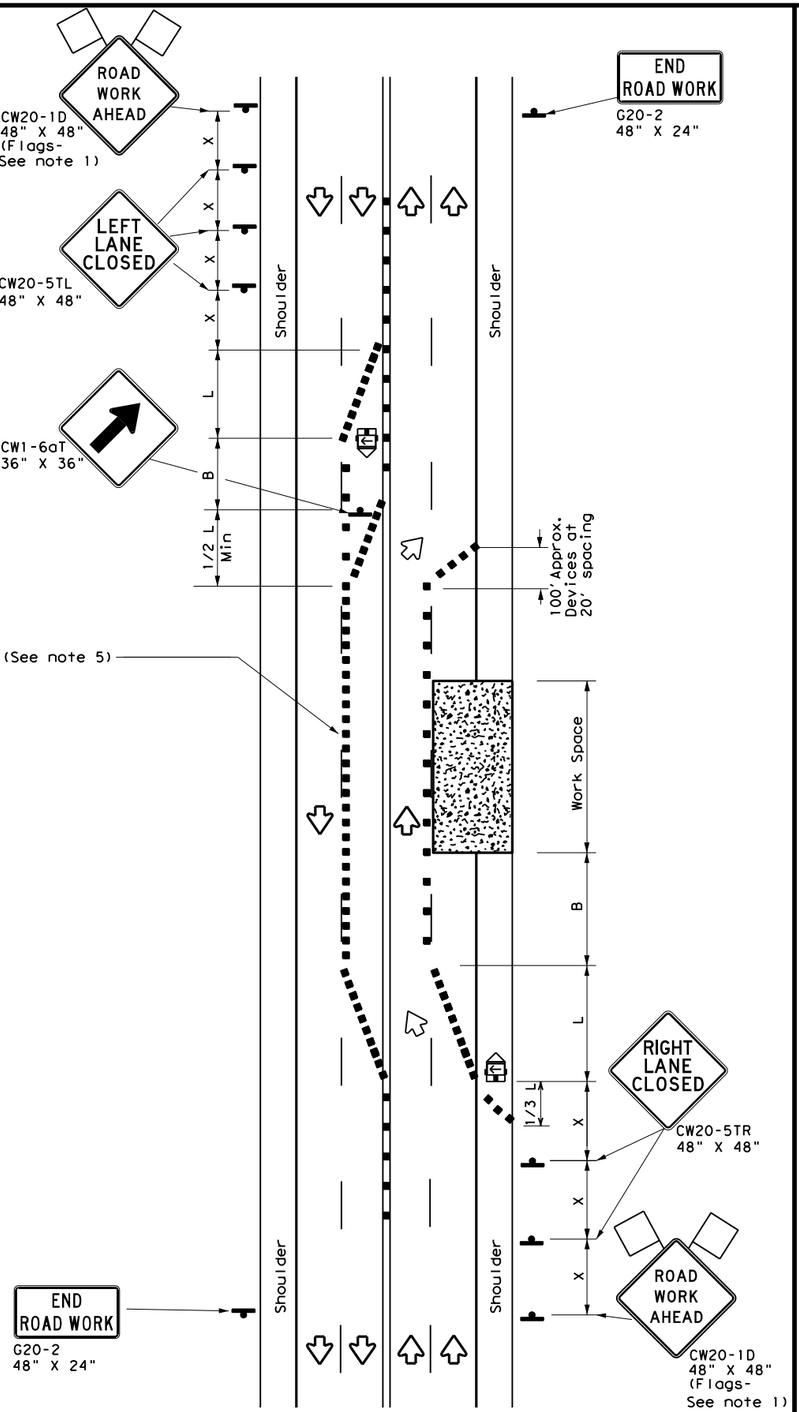
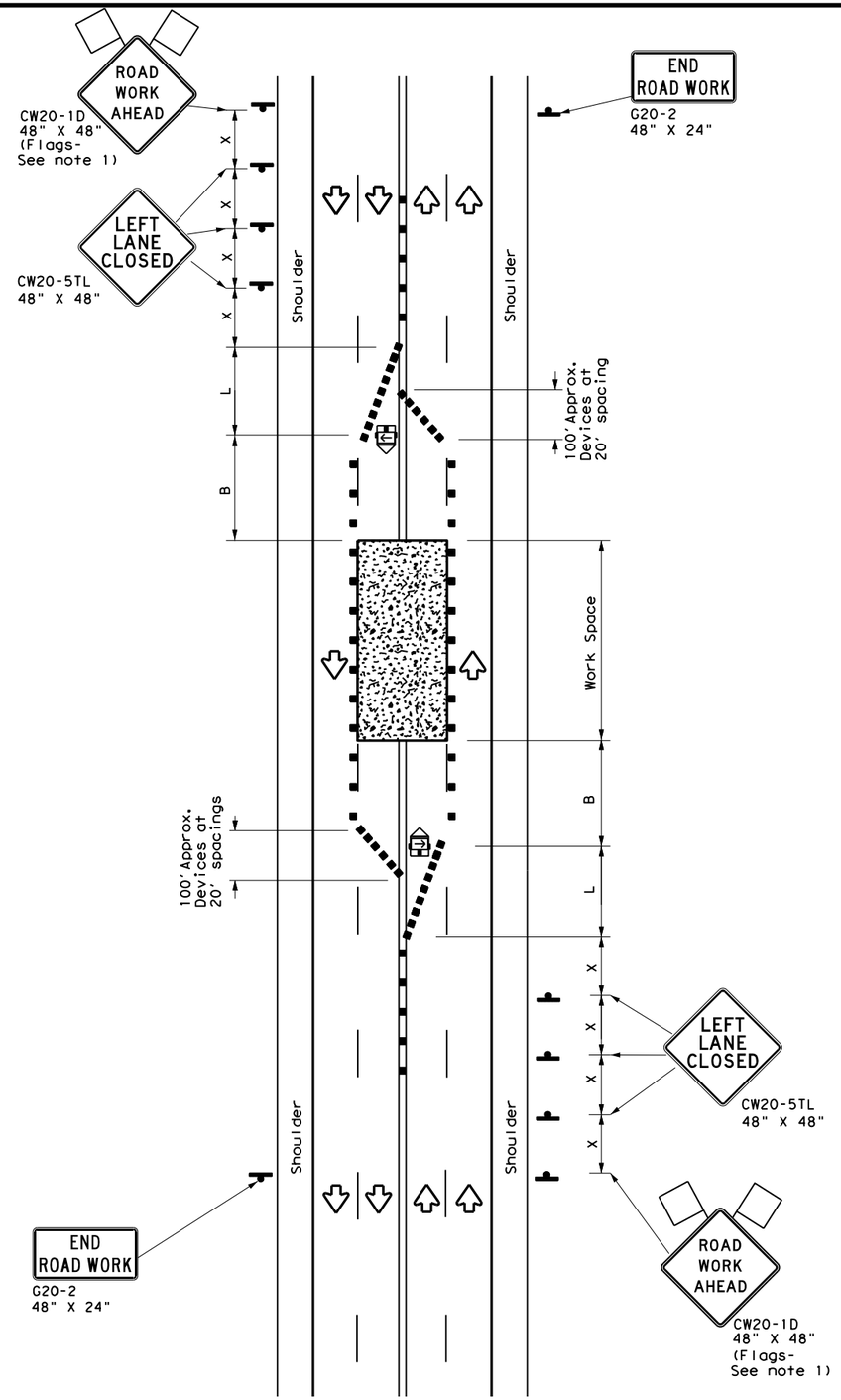


TCP (SC-2a)

ONE LANE CLOSED EACH DIRECTION
CONTROL WITH CHANNELIZING DEVICES



TCP (SC-2b)

CENTER LANES CLOSED
CONTROL WITH CHANNELIZING DEVICES

LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
30	$L=\frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L=WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	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 DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓		

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.
3. 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.

Texas Department of Transportation
Traffic Operations Division Standard

TRAFFIC CONTROL PLAN
LANE CLOSURES ON MULTILANE CONVENTIONAL ROADS

TCP(SC-2)-21

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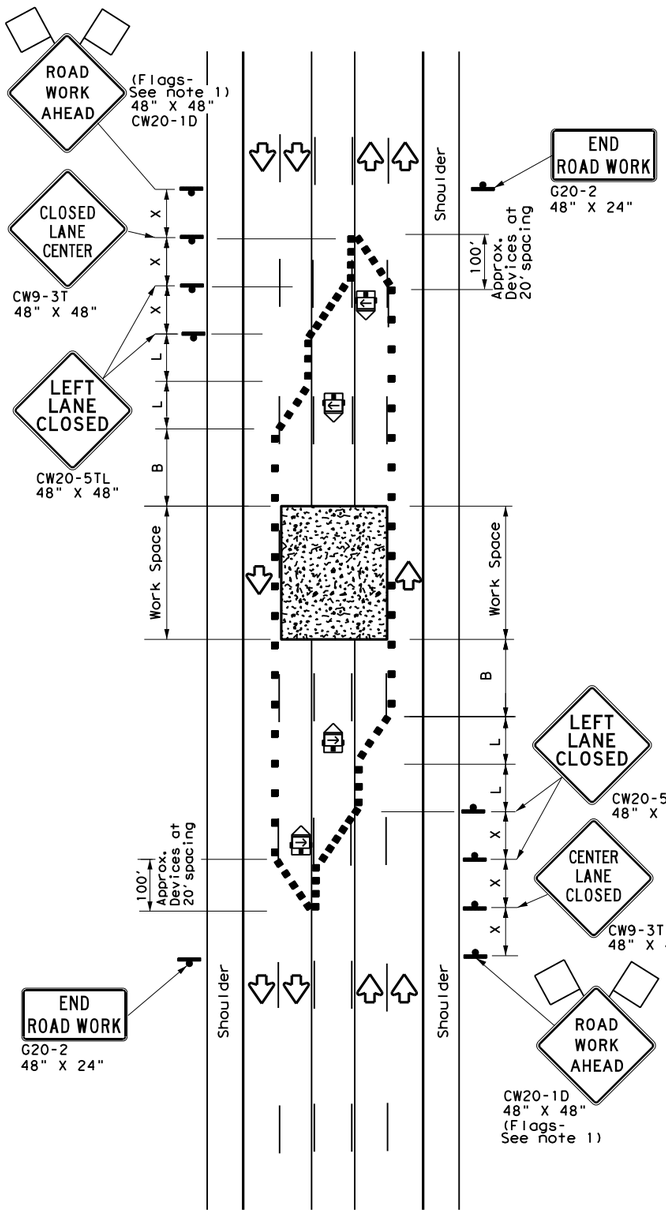
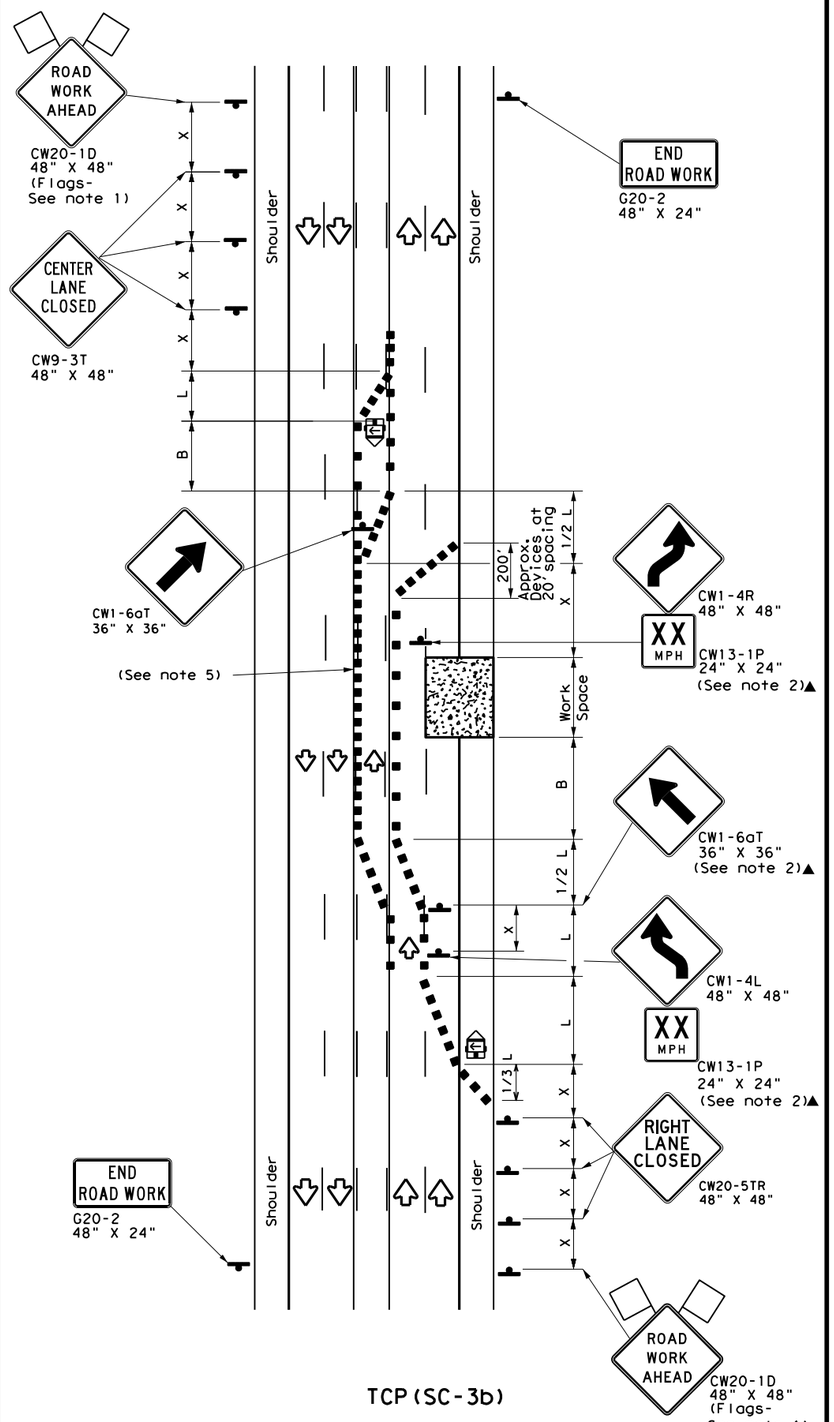
	BRY	ROBERTSON, ETC.		105



TCP(SC-3a)

CENTER LANES CLOSED
CONTROL WITH CHANNELIZING DEVICES



TCP(SC-3b)

ONE LANES CLOSED
CONTROL WITH CHANNELIZING DEVICES

LEGEND			
	Type 3 Barricade	■ ■	Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
30	$L=\frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L=WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	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 DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓		

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.
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.

TCP (SC-3b)

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.

Texas Department of Transportation | Traffic Safety Division Standard

TRAFFIC CONTROL PLAN
SEAL COAT
OPERATIONS

TCP(SC-3)-21

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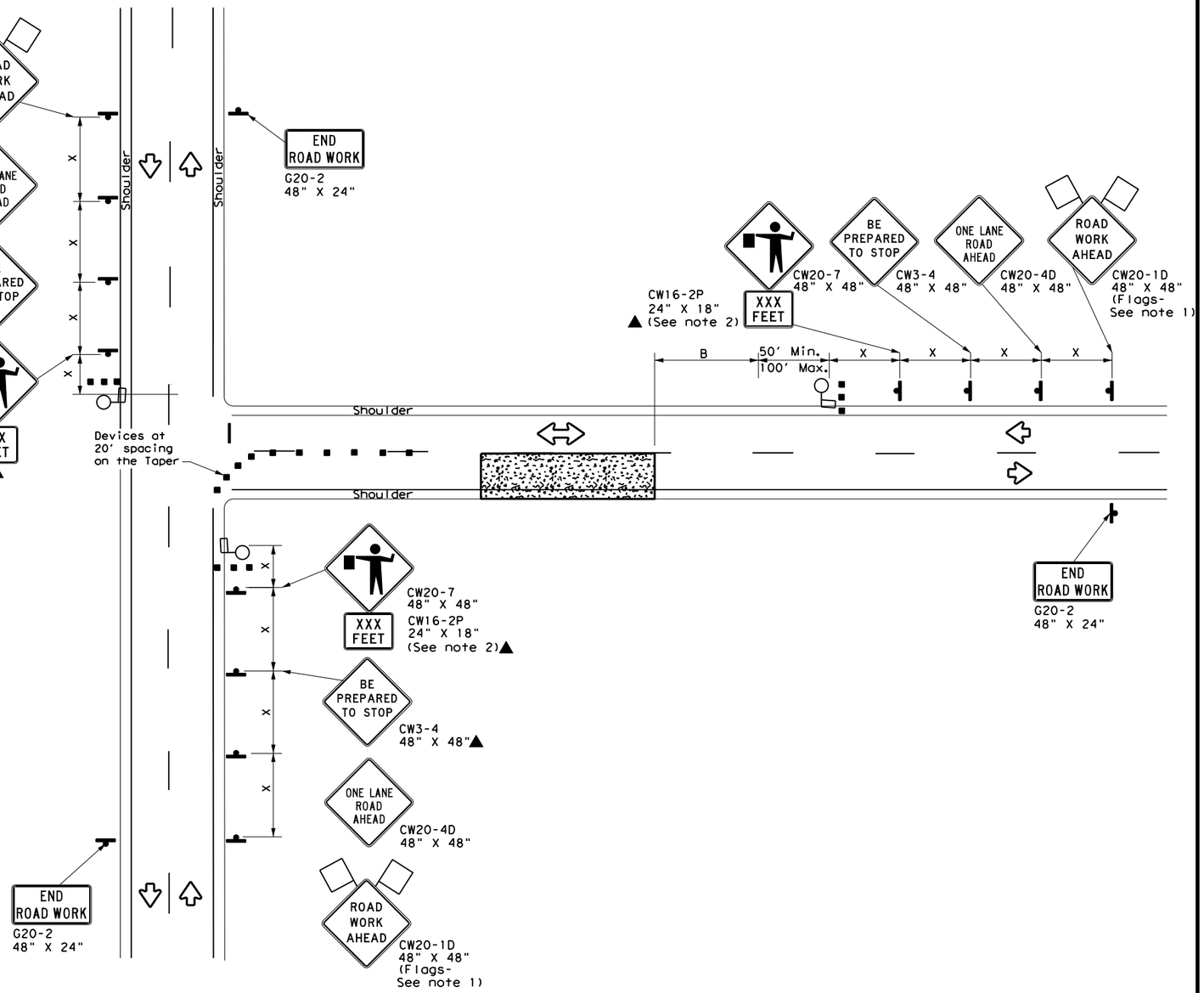

ONE LANE TWO-WAY (T-INTERSECTION) CONTROL WITH PILOT VEHICLE

LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"	Stopping Sight Distance
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent			
30	$L=\frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'	200'
35		205'	225'	245'	35'	70'	160'	120'	250'
40		265'	295'	320'	40'	80'	240'	155'	305'
45	L=WS	450'	495'	540'	45'	90'	320'	195'	360'
50		500'	550'	600'	50'	100'	400'	240'	425'
55		550'	605'	660'	55'	110'	500'	295'	495'
60		600'	660'	720'	60'	120'	600'	350'	570'
65		650'	715'	780'	65'	130'	700'	410'	645'
70		700'	770'	840'	70'	140'	800'	475'	730'
75		750'	825'	900'	75'	150'	900'	540'	820'

* 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 DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓		

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.
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 control traffic.
5. Flaggers should use 24" STOP/SLOW paddles to control traffic. Flags should be limited to emergency situations.
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.
8. 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.

Texas Department of Transportation | Traffic Safety Division Standard

TRAFFIC CONTROL PLAN SEAL COAT OPERATIONS

TCP(SC-4)-21

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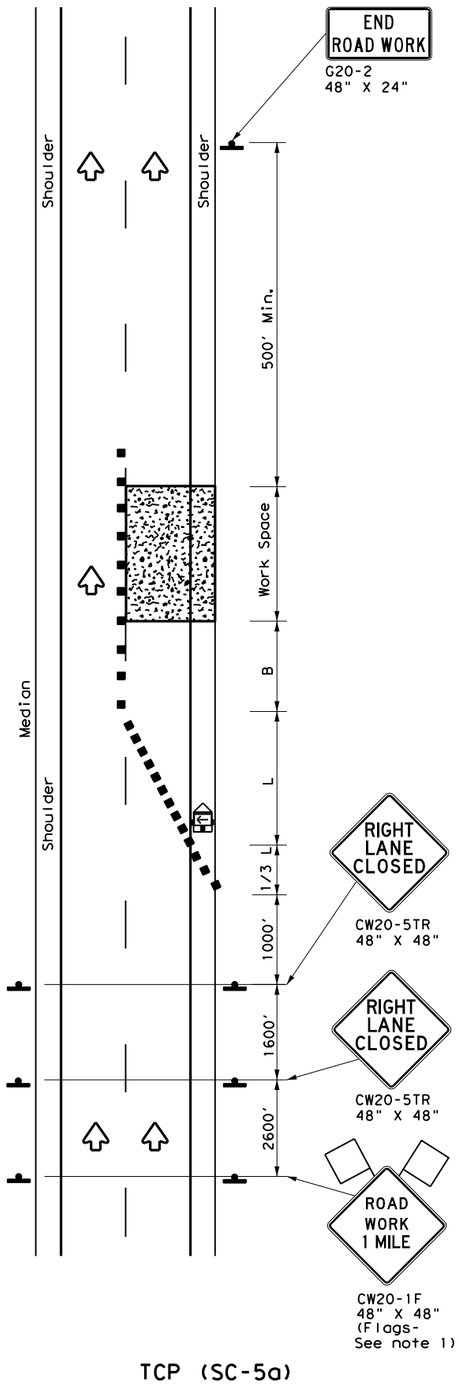
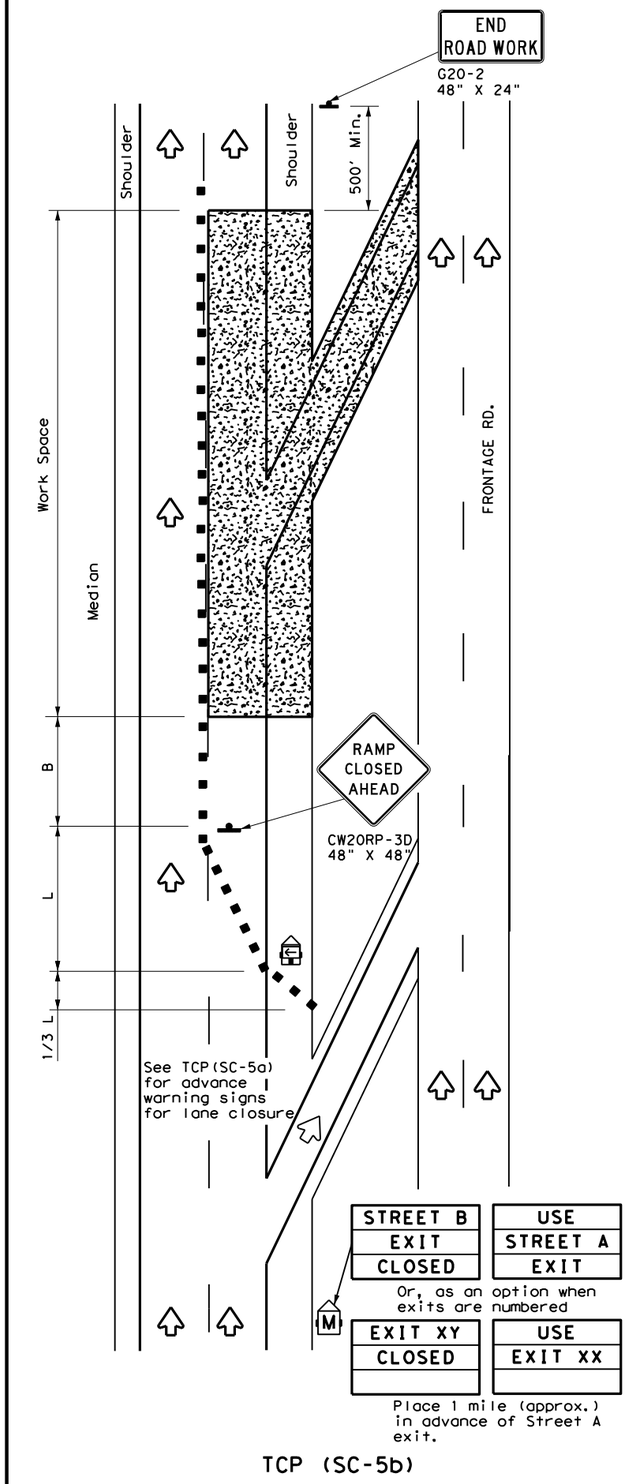


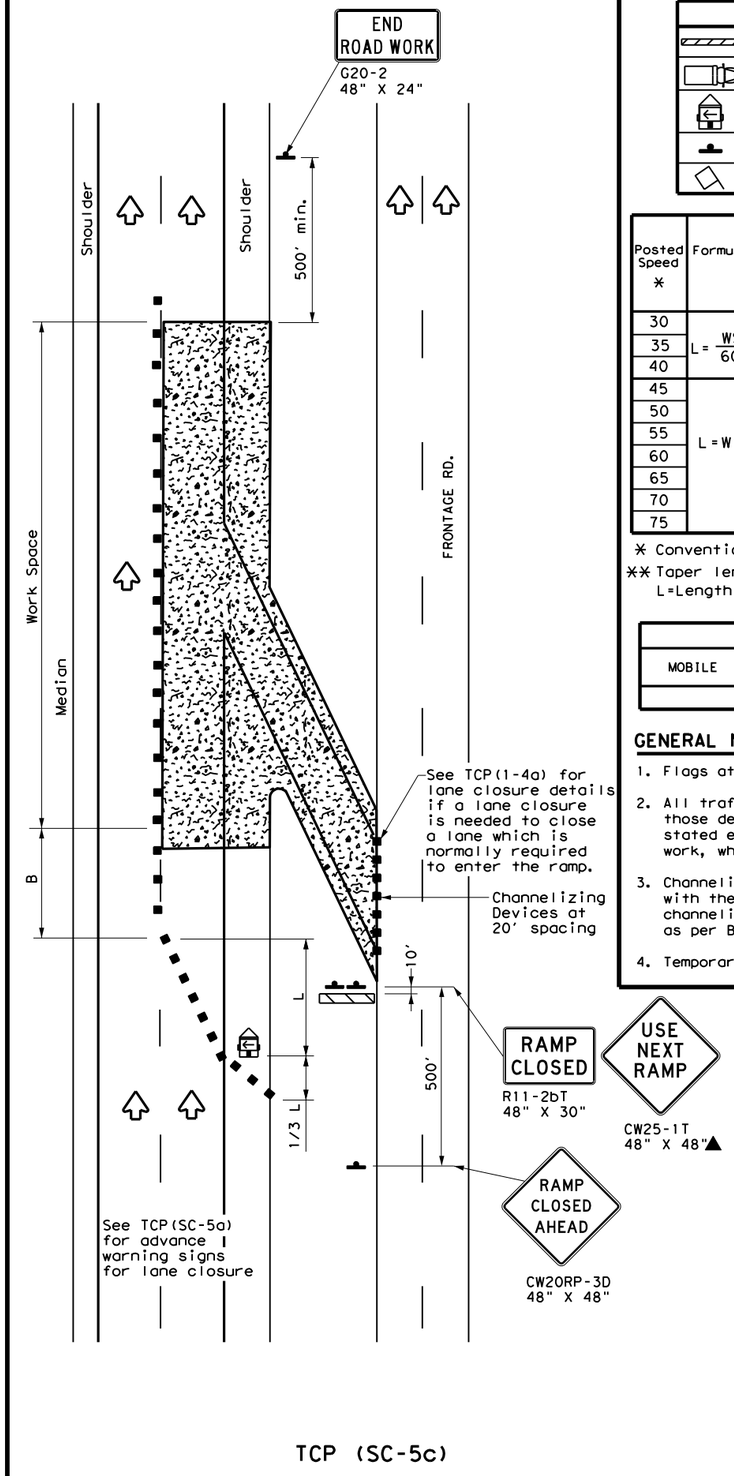
TCP (SC-5a)

ONE LANE CLOSURE



TCP (SC-5b)

LANE AND RAMP CLOSURE AT EXIT RAMPS



TCP (SC-5c)

LANE AND RAMP CLOSURE AT ENTRANCE RAMPS

LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices: On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
30	$L=\frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L=WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	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 DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
		✓		

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.
3. Channelizing devices used to close lanes may be supplemented with the Chevron Alignment Sign placed on every other channelizing device. Chevrons may be attached to plastic drums as per BC Standards.
4. Temporary rumble strips are not required on seal coat operations.

Texas Department of Transportation

Traffic Safety Division Standard

TRAFFIC CONTROL PLAN LANE CLOSURES FOR DIVIDED HIGHWAYS

TCP(SC-5)-21

FILE: tcpsc-5-21.dgn	DN:	CK:	DW:	CK:
©TxDOT April 2021	CONT	SECT	JOB	HIGHWAY
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	DIST	COUNTY		SHEET NO.
	BRY	ROBERTSON, ETC.		108

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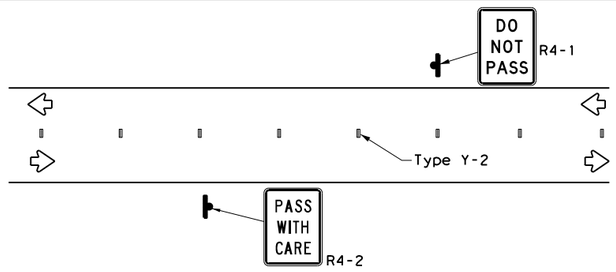
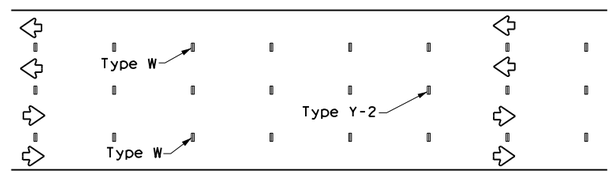
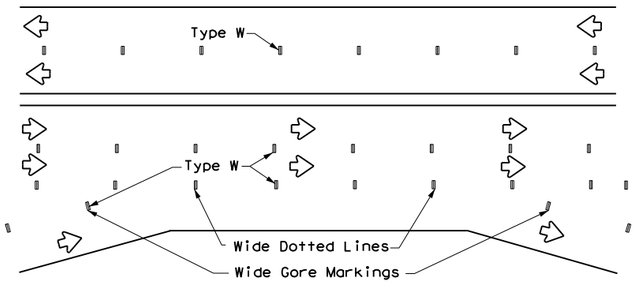
WORK ZONE SHORT TERM PAVEMENT MARKINGS PATTERNS (TABS)



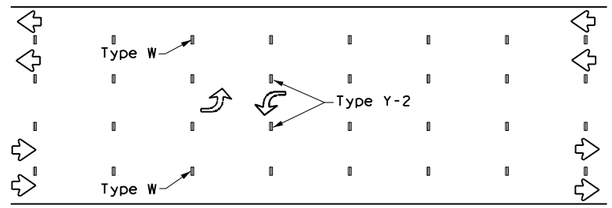
CENTER LINE & NO-PASSING ZONE BARRIER LINES FOR TWO LANE TWO-WAY HIGHWAYS



LANE & CENTER LINES FOR MULTILANE UNDIVIDED HIGHWAYS

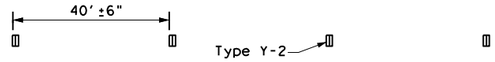


LANE LINES FOR DIVIDED HIGHWAY



TWO-WAY LEFT TURN LANE

WORK ZONE SHORT TERM PAVEMENT MARKINGS DETAILS (TABS)

SOLID LINES	DOUBLE NO-PASSING LINE	
	SINGLE NO-PASSING LINE or CHANNELIZATION LINE	
BROKEN LINES (FOR CENTER LINE OR LANE LINE)		
WIDE DOTTED LINES (FOR LANE DROP LINES)		
WIDE GORE MARKINGS		

NOTES:

1. Short term pavement markings shall be temporary flexible-reflective roadway marker tabs with protective cover unless otherwise specified elsewhere in plans.
2. Short term pavement markings shall NOT be used to simulate edge lines.
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 noted.
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 pavement markings, no segment of roadway shall remain without permanent pavement markings for a period greater than 14 calendar days unless weather conditions prohibit placement. Permanent pavement markings shall be placed as soon as weather permits.
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.

TEMPORARY FLEXIBLE, REFLECTIVE ROADWAY MARKER TABS (TABS)

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 be found on BC(11).
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 roadway geometrics.
4. No two consecutive tabs nor four tabs per 1000 feet of line shall be missing or fail to meet the 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

Texas Department of Transportation

Traffic Safety Division Standard

WORK ZONE SHORT TERM PAVEMENT MARKINGS FOR SEAL COAT OPERATIONS

TCP(SC-6)-21

FILE: tcpsc-6-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT April 2021	CONT	SECT	JOB	HIGHWAY
REVISIONS	0049	15	014, ETC.	SH 14, ETC.
	DIST	COUNTY		SHEET NO.
	BRY	ROBERTSON, ETC.		109

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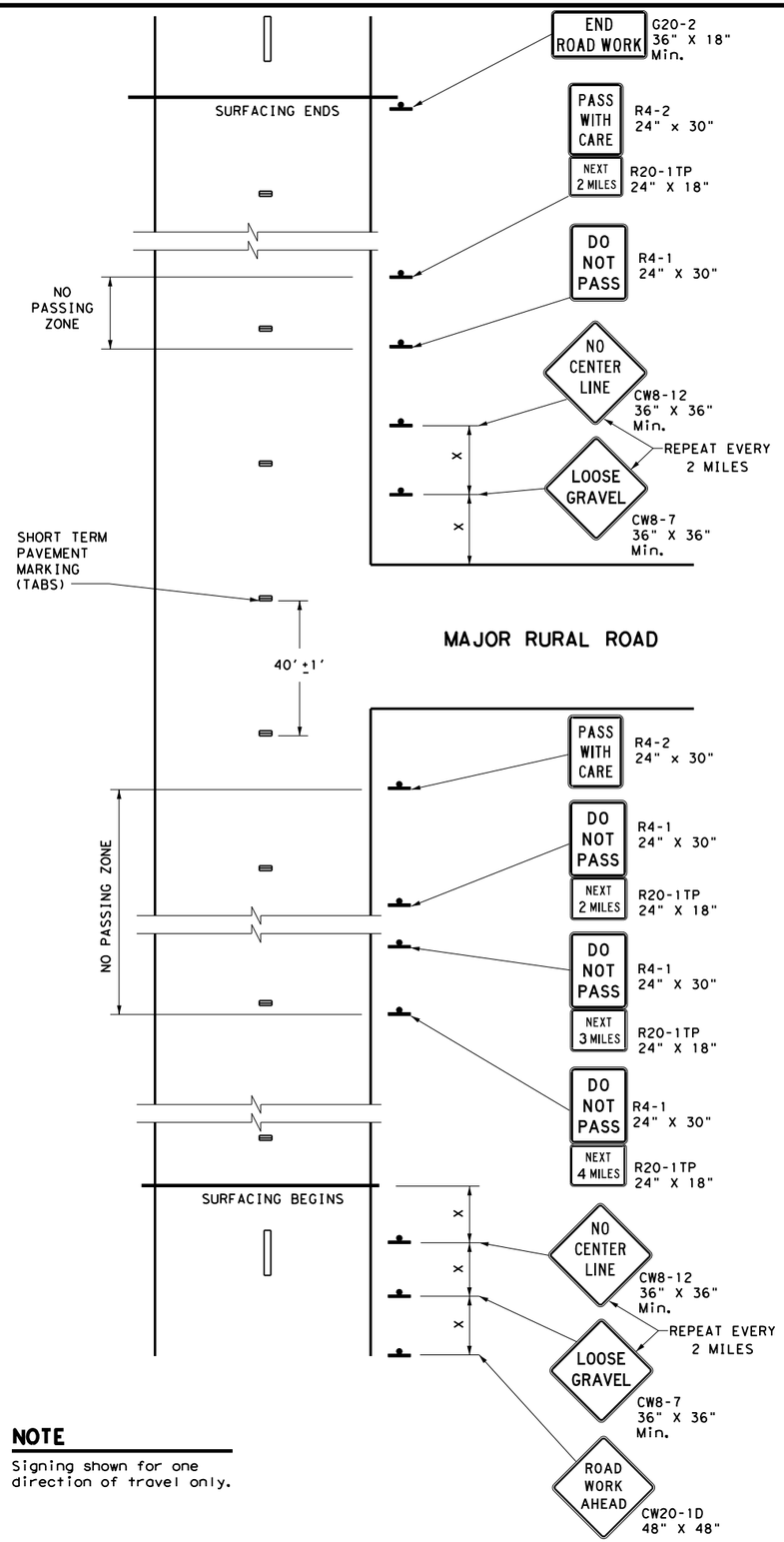
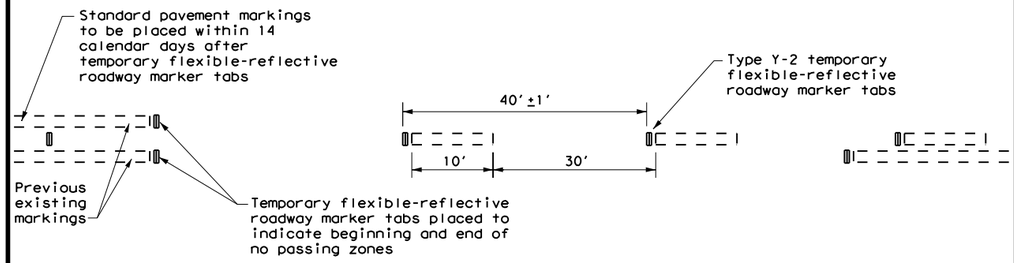


NOTE

Signing shown for one direction of travel only.

NO PASSING ZONES ON TWO-LANE TWO-WAY ROADS



TABS ON CENTERLINES OF TWO-LANE TWO-WAY ROADS

For seal coat operations

"DO NOT PASS" SIGN (R4-1) and NO-PASSING ZONES

A. Prior to the beginning of construction, all currently striped no-passing zones shall be signed with the DO NOT PASS (R4-1) signs and PASS WITH CARE (R4-2) signs placed at the beginning and end of each zone for each direction of travel except as otherwise provided herein. Signs marking these individual no-passing zones need not be covered prior to construction if the signs supplement the existing pavement markings.

B. At the discretion of the Engineer, in areas of numerous no-passing zones, several zones may be combined as a single zone. If passing is to be prohibited over one or more lengthy sections, a DO NOT PASS sign and a NEXT XX MILES (R20-1TP) plaque may be used at the beginning of such zones. The DO NOT PASS sign and the NEXT XX MILES plaque should be repeated every mile to the end of the no-passing zone. In areas where there is considerable distance between no-passing zones, the end of the no-passing zone may be signed with a PASS WITH CARE sign and a NEXT XX MILES plaque.

C. Depending on traffic volumes and length of sections, it may be desirable to prohibit passing throughout the project to prevent damage to windshield and lights. The DO NOT PASS sign and NEXT XX MILES plaque should be used and repeated as often as necessary for this purpose. Where several existing zones are to be combined into one individual no-passing zone, the sign at the beginning of the zone should be covered until the surfacing operation has passed this location so as not to have the DO NOT PASS sign conflict with the existing pavement markings. Also, unless one days operation completes the entire length of such combined zones, appropriate DO NOT PASS and PASS WITH CARE signs should be placed at the beginning and end of the no-passing zones where the surfacing operation has stopped for the day.

D. R4-1 and R4-2 are to remain in place until standard pavement markings are installed.

"NO CENTER LINE" SIGN (CW8-12)

A. Center line markings are yellow pavement markings that delineate the separation of travel lanes that have opposite directions of travel on a roadway. Divided highways do not typically have center line markings.

B. At the time construction activity obliterates the existing center line markings(low volume roads may not have an existing centerline), a NO CENTER LINE (CW8-12) sign should be erected at the beginning of the work area, at approximately 2 mile intervals within the work area, beyond major intersections and other locations deemed necessary by the Engineer.

C. The NO CENTER LINE signs are to remain in place until standard pavement markings are installed.

"LOOSE GRAVEL" SIGN (CW8-7)

A. When construction begins, a LOOSE GRAVEL (CW8-7) sign should be erected at each end of the work area and repeated at intervals of approximately 2 miles in rural areas and closer in urban areas.

B. The LOOSE GRAVEL signs are to remain in place until the condition no longer exists.

PAVEMENT MARKINGS

A. Temporary markings for surfacing projects shall be Temporary Flexible-reflective Roadway Marker Tabs unless otherwise approved by the Engineer. Tabs are to be installed to provide true alignment for striping crews or as directed by the Engineer. Tabs will be placed at the spacing indicated. Tabs should be applied to the pavement
no more than two (2) days before the surfacing is applied. After the surfacing is rolled and swept, the cover over the reflective strip shall be removed.

B. Tabs shall not be used to simulate edge lines.

COORDINATION OF SIGN LOCATIONS

A. The location of warning signs at the beginning and end of a work area are to be coordinated with other signing typically shown on the Barricade and Construction Standards for project limits to ensure adequate sign spacing.

B. 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.

Posted Speed *	Minimum Sign Spacing "X" Distance
30	120'
35	160'
40	240'
45	320'
50	400'
55	500'
60	600'
65	700'
70	800'
75	900'

*** Conventional Roads Only**

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

GENERAL NOTES

1. The traffic control devices detailed on this sheet will be furnished and erected as directed by the Engineer on sections of roadway where tabs must be placed prior to the surfacing operation which will cover or obliterate the existing pavement markings.
2. The devices shown on this sheet are to be used to supplement those required by the BC Standards or others required elsewhere in the plans.
3. Signs shall be erected as detailed on the BC Standards or the Compliant Work Zone Traffic Control Devices List (CWZTCD) on supports approved for Short Duration / Short Term Stantionary Work Zone Sign Supports.
4. When surfacing operations take place on divided highways, freeways or expressways, the size of diamond shaped construction warning signs shall be 48" x 48".
5. Signs on divided highways, freeways and expressways will be placed on both right and left sides of the roadway based on roadway conditions as directed by the Engineer.

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SHEET 7 OF 7

Texas Department of Transportation

Traffic Safety Division Standard

TRAFFIC CONTROL DETAILS FOR SEAL COAT OPERATIONS

TCP(SC-7)-21

FILE: tcpsc-7-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT April 2021	CONT	SECT	JOB	HIGHWAY
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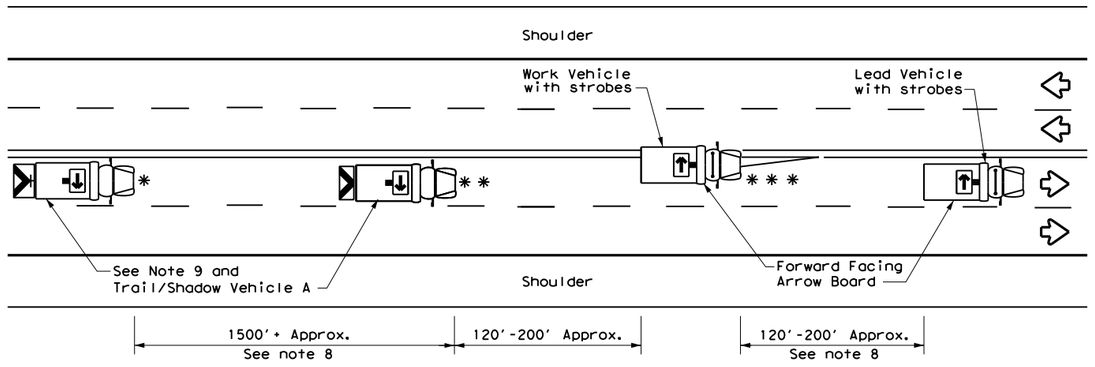
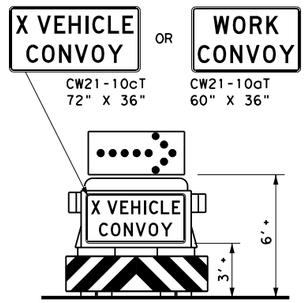
	DIST	COUNTY		SHEET NO.
	BRY	ROBERTSON, ETC.		110



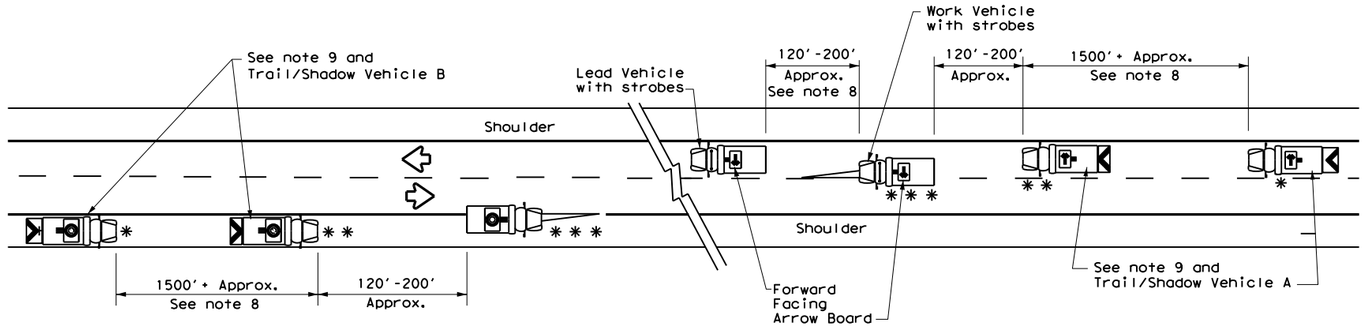
TCP (3-1a)

UNDIVIDED MULTILANE ROADWAY



TRAIL/SHADOW VEHICLE A

with RIGHT Directional display Flashing Arrow Board

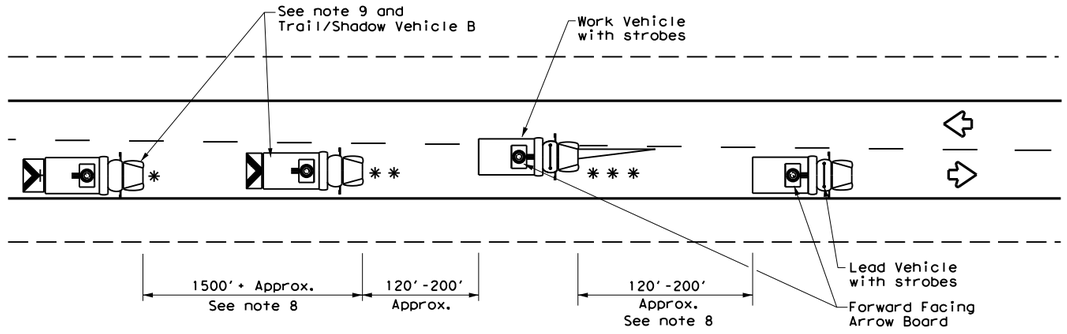


WORK ON SHOULDER

WORK ON TRAVEL LANE

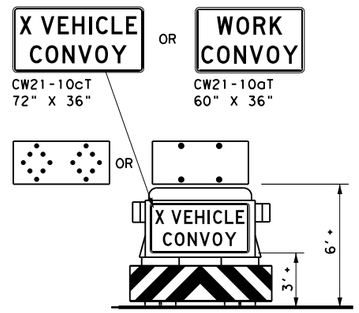
TCP (3-1b)

TWO-WAY ROADWAY WITH PAVED SHOULDERS



TCP (3-1c)

TWO-WAY ROADWAY WITHOUT PAVED SHOULDERS



TRAIL/SHADOW VEHICLE B

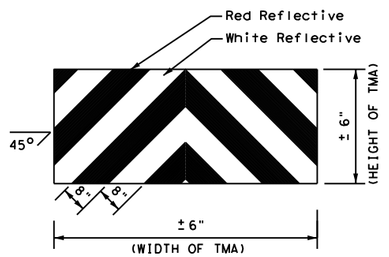
with Flashing Arrow Board in CAUTION display

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

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

GENERAL NOTES

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



STRIPING FOR TMA

Texas Department of Transportation

Traffic Operations Division Standard

TRAFFIC CONTROL PLAN MOBILE OPERATIONS UNDIVIDED HIGHWAYS

TCP(3-1)-13

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©TxDOT December 1985	CONT	SECT	JOB	HIGHWAY
REVISIONS 2-94 4-98 8-95 7-13 1-97	0049	15	014, ETC.	SH 14, ETC.
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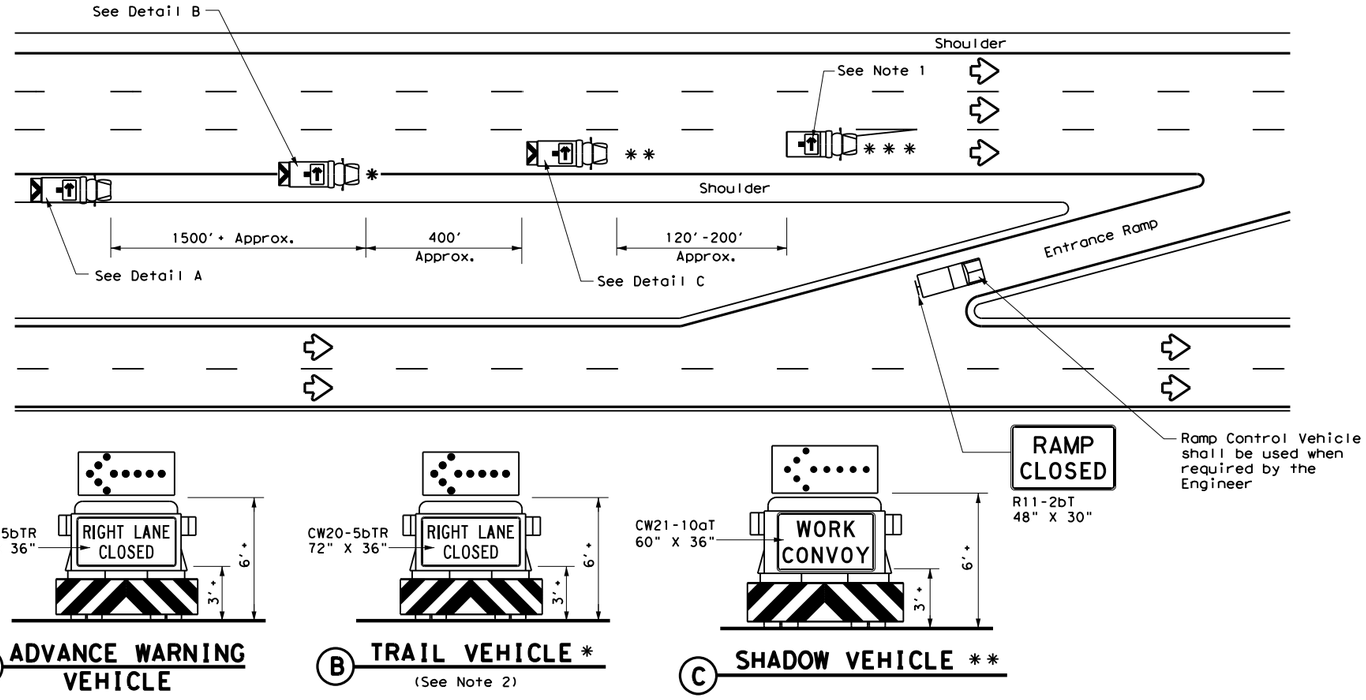
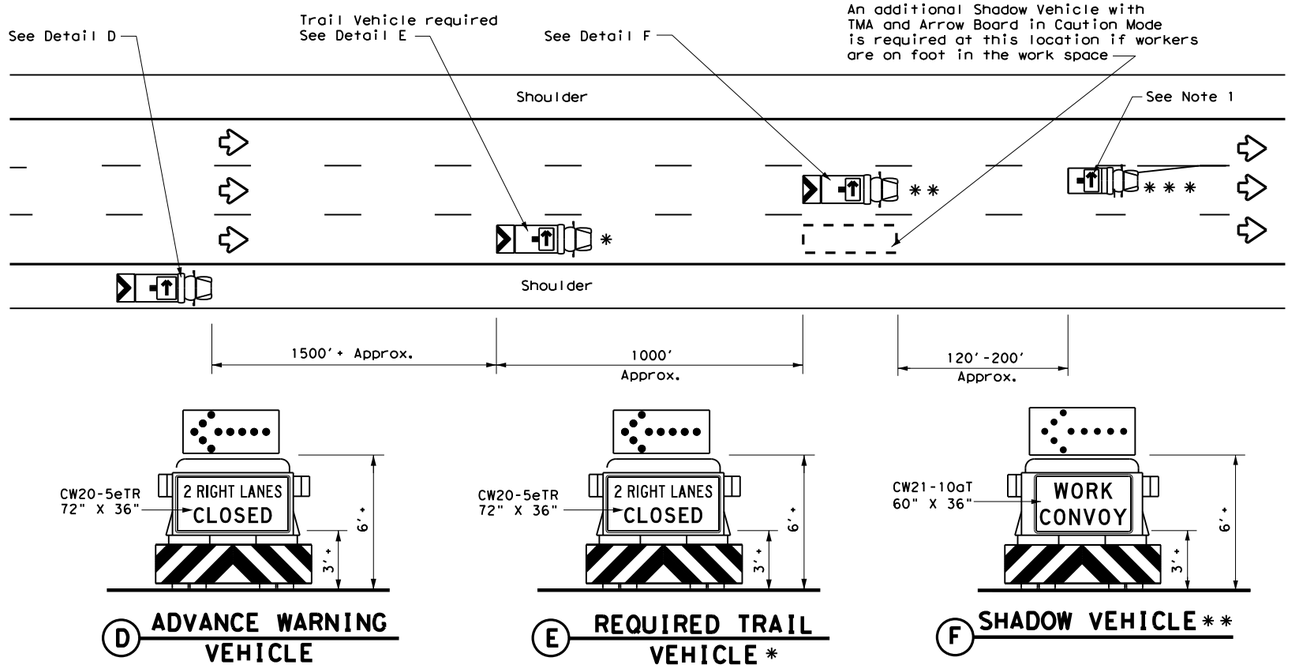


RIGHT LANE CLOSURE ON DIVIDED HIGHWAY - TCP(3-2a)



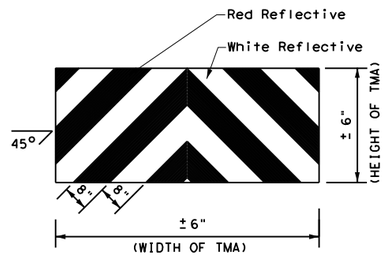
INTERIOR LANE CLOSURE ON MULTI-LANE DIVIDED HIGHWAY - TCP(3-2b)

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

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

GENERAL NOTES

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



STRIPING FOR TMA

Texas Department of Transportation

Traffic Operations Division Standard

TRAFFIC CONTROL PLAN MOBILE OPERATIONS DIVIDED HIGHWAYS

TCP(3-2)-13

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8-95 7-13	BRY	ROBERTSON, ETC.		112
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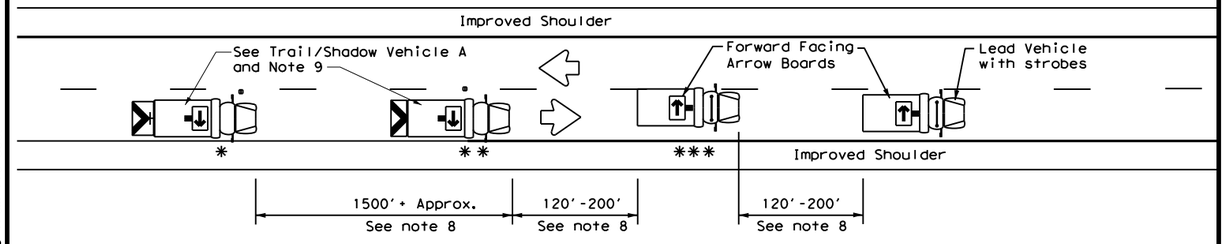
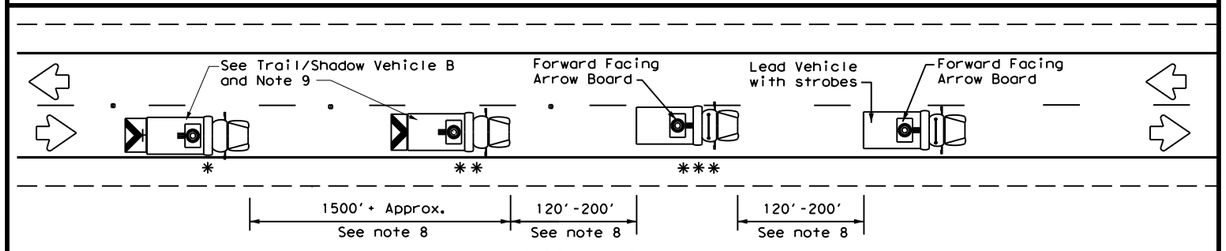


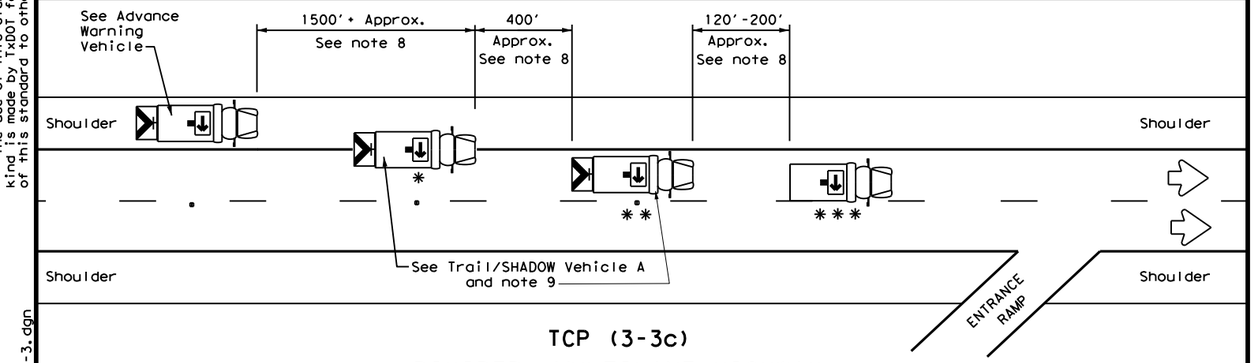
TCP (3-3a)

TWO LANE HIGHWAY WITH PAVED SHOULDERS
(WORK ON TRAVEL LANE)



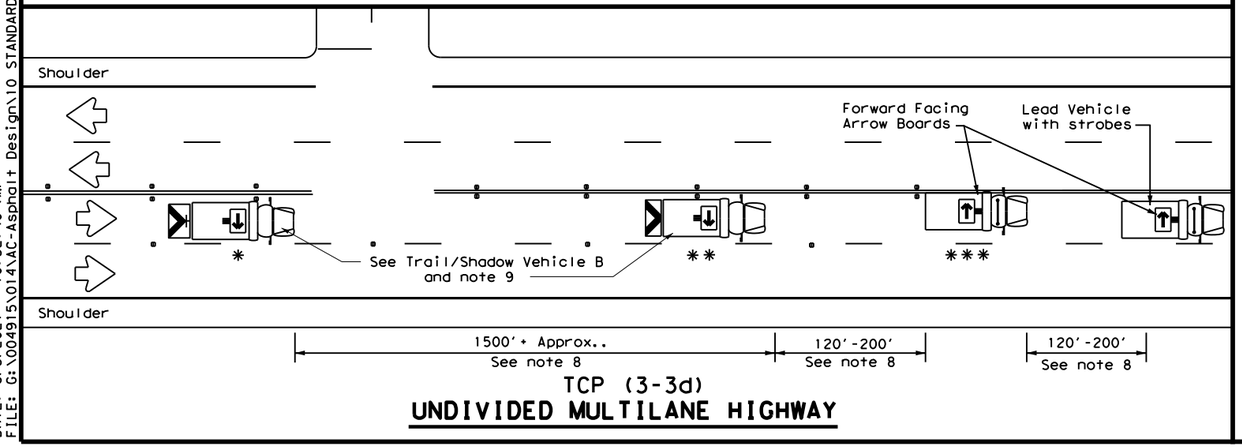
TCP (3-3b)

TWO LANE HIGHWAY WITHOUT PAVED SHOULDERS
(WORK ON TRAVEL LANE)



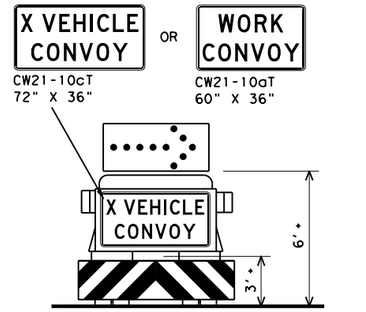
TCP (3-3c)

DIVIDED MULTILANE HIGHWAY



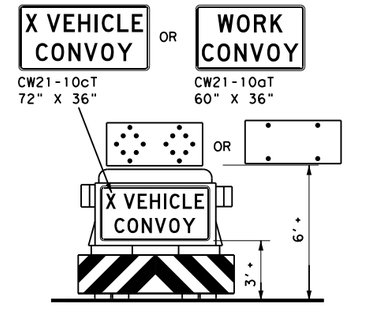
TCP (3-3d)

UNDIVIDED MULTILANE HIGHWAY



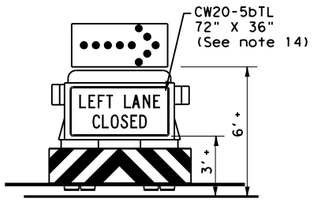
TRAIL/SHADOW VEHICLE A

with RIGHT Directional display
Flashing Arrow Board

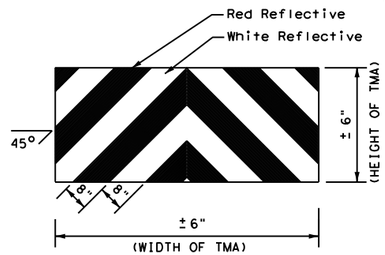


TRAIL/SHADOW VEHICLE B

with Flashing Arrow Board
in Caution Mode



ADVANCE WARNING VEHICLE



STRIPING FOR TMA

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

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

GENERAL NOTES

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

Texas Department of Transportation

Traffic Operations Division Standard

TRAFFIC CONTROL PLAN MOBILE OPERATIONS RAISED PAVEMENT MARKER INSTALLATION/ REMOVAL
TCP(3-3)-14

FILE: tcp3-3.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT September 1987	CONT	SECT	JOB	HIGHWAY
REVISIONS	0049	15	014, ETC.	SH 14, ETC.
2-94 4-98	DIST	COUNTY		SHEET NO.
8-95 7-13	BRY	ROBERTSON, ETC.		113
1-97 7-14				

DATE: 8/5/2021 10:52:40 AM
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