

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION, NOVEMBER 1, 2014 AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS, SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS FOR ALL FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, JULY 2022)

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DESCRIPTION

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TCP (1-1 THRU 1-4)-18

TCP (3-1 THRU 3-2)-13

TCP (6-1 THRU 6-7)-12

TCP (6-8 THRU 6-9)-14

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RAILROAD SCOPE OF WORK

ADDITIONAL AREAS EXHIBITS

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STORMWATER POLLUTION PREVENTION PLAN (SW3P)

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DSN	СК	CONT	SECT	J	DB		HIGHWAY
JD	AJ	0904	00	200,	ETC	V	ARIOUS
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THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.



06/30/2022

FY 23 CRACK SEAL

INDEX OF SHEETS

County: POTTER

Highway: VARIOUS

GENERAL NOTES

General

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

TO: Dumas Area Engineer CC: Assistant Area Engineer Director of Construction Construction Manager

Bernardo.Ferrel@txdot.gov Ofelia.Garbalena@txdot.gov Kenneth.Petr@txdot.gov Thomas.Nagel@txdot.gov

Contractor questions will be accepted through email, phone, or 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 responses 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

No significant traffic generator events identified.

Item 8 Prosecution and Progress

The latest start work date and beginning of working day charges is November 28, 2022.

All crack seal work will be performed when the ambient temperature is below 60 degrees Fahrenheit unless otherwise directed by the Engineer.

Working days will be computed and charged in accordance with Article 8.3.1.1 Five-Day Workweek.

No lane closures will be allowed on weekdays before 8:30AM or after 4:30PM on the following References:

REF	HIGHWAY
52	US 60: 1.663 MILES EAST OF US 87 TO SH 136
53	US 60: US 87 TO 1.663 MILES EAST OF US 87
54	BI – 40: RM 1061 TO US 87

Item 502 Barricades, Signs, and Traffic Handling

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

Temporary rumble strips will be required as shown on WZ(RS)-22 regardless of loose gravel, and/or soft or bleeding asphalt. Adjust the traffic control setup such that rumble strips are not placed in areas of heavily rutted pavements, unpaved surfaces, or horizontal curves. Temporary rumble strips will not be allowed on interstate highway.

The Contractor is to have the option of using either plastic drums, vertical panels, grabber cones or a combination where drums are shown as channelizing devices, as approved by the Engineer. Plastic drums are to be used in all transition areas in accordance with BC(8)-21 and WZ(TD)-17.

Lane closures will be required for all crack seal operations. TCP for mobile operations will be prohibited during crack seal operations.

For two lane / two-way roadways, lane closures are to be limited to a maximum of 15 minute que time.

For all other roadways, lane closures are to be limited to a maximum of 5 Miles.

If more than one lane closure location is desired a minimum of 2 miles passing zone is required between each location.

Notify the Engineer 24 hours prior to any lane closure.

Contractor is to use the Texas Manual on Uniform Traffic Control Devices to ensure that no traffic will be stopped within the Rail Road Right of Way.

For all airport runway work, notify the Engineer 4 working days prior to beginning any work on the airport reference.

Place crack sealing under existing traffic conditions with a minimum of interference to the operation of the facility. Protect all existing pavement markings from damage or disfigurement.

Sheet: 3

Control: 0904-00-200

County: POTTER

Highway: VARIOUS

Control: 0904-00-200

Sheet: 3A

Item 712 Cleaning and Sealing Joints and Cracks

Use Class B rubber-asphalt crack sealer.

Use of Class A rubber-asphalt crack sealer is not allowed

For all airport runway work, it is imperative that the pavement surface remain free of sealing materials. Therefore, all excess sealing compounds/materials will be removed at the contractor's expense prior to acceptance and final payment. Fill to 1/8" below asphalt surface.

All equipment and vehicles are to be approved by the Engineer prior to use and be able to efficiently produce the desired results.

Contractor will NOT Crack Seal any surface with Concrete as the final riding surface.

Item 6001 Portable Changeable Message Sign

Supply <u>2</u> Portable Changeable Message Signs (Type II – Lamp Matrix) for this project. This work will be paid at the unit price bid for each unit, which will include any moving, maintenance, and removing of the PCMS. No payment will be made for removing and replacing damaged PCMS. The Portable Changeable Message Signs will become property of the Contractor at the completion of the project.

If the Contractor chooses to have more than one lane closure set-up at a time, provide additional PCMS in accordance with TCP at no additional charge to the department.

Item 6185 Truck Mounted Attenuator (TMA) and Trailer Attenuator (TA)

In addition to the shadow vehicles with truck mounted attenuator (TMA) that are specified as being required on the traffic control plan for this project, provide 0 additional shadow vehicle(s) with TMA for TCP for all TCP Standards as detailed on the General Notes of the standard sheets.

Therefore, $\underline{3}$ 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.



CONTROLLING PROJECT ID 0904-00-200

Estimate & Quantity Sheet

DISTRICT Amarillo

COUNTY Potter, Roberts

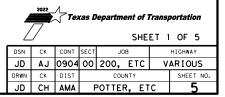
HIGHWAY Various

		CONTROL SECTIO	ON JOB	0904-00)-200	0904-0	0-201	0904-1	0-003		
		PROJ	ECT ID	A00176	5414	A0017	6415	A0018	7363		
		C	OUNTY	Potte	er	Pott	er	Robe	erts	TOTAL EST.	TOTAL FINAL
		ню	GHWAY	Vario	us	Vario	ous	Vario	bus		
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL	EST.	FINAL		
	500-6001	MOBILIZATION	LS	1.000						1.000	
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	МО	4.000						4.000	
	712-6008	JT / CRCK SEAL (RUBBER - ASPHALT)	LMI	1,235.757		191.128				1,426.885	
	712-6022	JT/CRCK SEAL(RUBBER ASPHALT) RAMPS	LMI					3.068		3.068	
	6001-6001	PORTABLE CHANGEABLE MESSAGE SIGN	DAY	100.000						100.000	
	6185-6003	TMA (MOBILE OPERATION)	HR	1,200.000						1,200.000	
	18	RAILROAD FLAGGING: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS			1.000				1.000	
		EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS			1.000				1.000	
		SAFETY CONTINGENCY: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS			1.000				1.000	

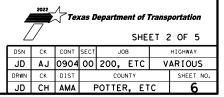


DISTRICT	COUNTY	CCSJ	SHEET
Amarillo	Potter	0904-00-200	4

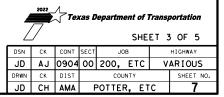
					2023 CDACK SE	T		004 0	0 200	<u>, г</u>	<u> </u>	<u>.</u>			
REF	CONTROL & SECTION	HIGHWAY	COUNTY	LIM	2023 CRACK SE	FROM	FROM DISP	904-0 то мкр	TO DISP	LENGTH	# OF LANES	THRU LANE	ADD'L AREA	0712 6008 JT/CRCK SEAL (RUBBER- ASPHALT)	NOTES
				FROM	то					MILES		LMI	LMI	LMI	
1	1141-01	FM 296	DALLAM	SH 102	US 87	230	- 0.020	246	+ 1.694	16.891	2	33.782	0.007	33.765	NO CRACK SEAL ON CONCRETE PAVEMENT SURFACE. CRACK SEAL UP TO RAILROAD CONCRETE PANELS.
2	0794-01	FM 1727	DALLAM	FM 3110	9.3 MILES EAST OF FM 3110	240	+ 0.000	248	+ 1.246	9.300	2	18.600	0.007	18.607	
3	0041-01	US 87	HARTLEY	.8 MILES SOUTH OF DALLAM CO LINE	US 87/ US 385 INTERCHANGE	56	- 0.004	68	+ 1.855	13.060	5,6	74.560	8.026	82.586	SEE ADD'L AREA "A".
4	1727-01	FM 281	HARTLEY	FM 807 SOUTH	FM 807 NORTH	270	+ 0.659	272	+ 1.617	2.991	2	5.982		5.982	
5	1727-02	FM 281	MOORE	HARTLEY COUNTY LINE	US 287	284	+ 0.002	292	+ 1.842	9.400	2	18.800		18.800	CRACK SEAL UP TO RAILROAD CONCRETE PANELS.
6	0794-04	FM 281	MOORE	US 287	FM 119	292	+ 1.842	304	+ 0.025	9.651	2	19.302	0.014	19.306	NO CRACK SEAL IN RAILROAD'S RIGHT-OF-WAY.
7	0066-04	US 287	MOORE	SHERMAN COUNTY LINE	FM 281 (NORTH ABUTMENT)	50	+ 0.003	52	+ 0.412	2.351	6	14.106	3.264	17.370	SEE ADD'L AREA "B".
8	0727-01	FM 119	MOORE	SHERMAN COUNTY LINE	US 287	44	+ 0.007	60	+ 0.538	16.705	2	33.410	0.110	33.497	NO CRACK SEAL IN RAILROAD'S RIGHT-OF-WAY.
9	2001- 02	FM 2589	MOORE	US 87	FM 722	56	- 0.042	58	+ 1.322	3.223	2	6.446	0.502	6.948	
10	1244-02	FM 1913	MOORE	US 87	FM 1319	290	- 0.045	316	+ 0.038	25.402	2	50.804		50.804	
11	2437-02	FM 1913	MOORE	FM 1319	SH 152	316	+ 0.038	318	+ 0.014	1.976	2	3.952		3.952	
12	0557-03	BS 152B	HUTCHINSON	SH 152	SH 207	318	- 0.089	318	+ 1.062	1.152	2, 4	3.138	0.090	3.228	
13	0557-07	FM 2171	HUTCHINSON	SH 152	FM 280	324	- 0.089	328	+ 0.214	4.299	2	8.598	0.074	8.632	NO CRACK SEAL ON CONCRETE PAVEMENT SURFACE.
14	0790-05	FM 278	HANSFORD	SH 15	SH 207	322	- 0.120	324	+ 1.038	2.934	2	5.868	0.496	6.364	
15	2335-01	FM 2387	HANSFORD	FM 1261	SH 15	26	- 0.058	34	+ 1.361	9.580	2	19.160		19.160	
16	0308-04	FM 759	HANSFORD	SH 15	OCHILTREE COUNTY LINE	334	- 0.017	340	+ 0.005	6.349	2, 4	14.698		14.698	
17	0355-04	SH 15	OCHILTREE	HANSFORD CL	US 83	346	+ 0.000	364	+ 0.014	18.369	4	73.476		73.476	



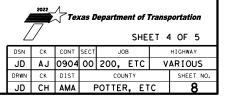
		· · · · ·		1	2023 CRACK S	DEAL LI	51 (0	904-0	<u>10-200</u>	<u> </u>					
REF	CONTROL & SECTION	HIGHWAY	COUNTY		LIMITS	F ROM MKR	FROM DISP	TO MKR	TO DISP	LENGTH	# OF LANES	THRU LANE	ADD'L AREA	0712 6008 JT/CRCK SEAL (RUBBER- ASPHALT)	NOTES
				FROM	то					MILES		LMI	LMI	LMI	
18	0030-04	US 83	LIPSCOMB	OCHILTREE CL	HEMPHILL CL	44	+ 1.204	50	+ 0.012	3.659	4	14.636		14.636	
19	0030-05	US 83	HEMPHILL	HORSE CREEK BRIDGE (EAST ABUTMENT)	US 60	56	+ 0.234	62	+ 0.098	6.043	2	12.086	0.160	12.246	
20	0798-04	FM 277	HEMPHILL	US 83	WHEELER CL	380	- 0.038	398	+ 1.941	19,631	2	39.262	0.078	39.340	
21	2612-01	RM 2654	HEMPHILL	SH 33	FM 277	62	- 0.037	70	+ 0.166	8.253	2	16.506	0.016	16.522	
22	1999-01	FM 2124	HEMPHILL	FM 277	OKLAHOMA STATE LINE	394	- 0.067	400	+ 0.074	6.401	2	12.802		12.802	
23	0797-02	FM 748	ROBERTS	US 60 IN MIAMI	GRAY CO	68	- 0.053	72	+ 1.272	5.178	2, 3	11.066		11.066	
24	0797-03	FM 748	GRAY	ROBERTS COUNTY LINE	SH 152	72	+ 1.272	78	+ 1.260	5.281	2	10.562	0.016	10.578	
25	0797-04	RM 2857	GRAY	SH 152	RM 1321	80	- 0.024	86	+ 1.333	7.424	2	14.848	0.032	14.880	
26	0797-01	FM 283	ROBERTS	SH 70	FM 282	54	- 0.065	74	+ 0.738	20.885	2	41.770	0.119	41.889	SEE ADD'L AREA "C".
27	2492-01	FM 282	ROBERTS	GRAY COUNTY LINE	SH 70	350	+ 1.144	354	+ 1.116	2.945	2	5.890	0.014	5.904	
28	2492-02	FM 282	GRAY	23RD AVE	ROBERTS COUNTY LINE	346	+ 1.085	350	+ 1.144	3.940	2	7.880		7.880	
29	0169-10	FM 282	GRAY	FM 750	US 60	344	+ 0.039	344	+ 0.089	0.128	4	0.512	0.008	0.520	
30	2403-01	SL 171	GRAY	SH 70 (NORTH)	SH 273	76	- 0.063	82	+ 0.065	6.195	4, 6, 7	30.406	0.332	30.738	CRACK SEAL BRIDGE OVER RAILROADS
31	0560-01	SH 273	GRAY	SL 171 (EAST)	SL 171 (WEST)	82	+ 0.109	84	- 0.097	1.982	4, 7	8.993		8.993	
32	0560-01	SL 171	GRAY	SH 273	SH 70 (SOUTH)	84	- 0.047	84	+ 0.965	1.140	4, 7	5.367	0.138	5.505	
33	0169-07	US 60	GRAY	SH 70	TIGNOR ST	380	+ 1.615	382	+ 0.772	1.646	7	11.522	0.021	11.543	
34	0169-06	US 60	GRAY	CARSON COUNTY LINE	SH 70	372	+ 0.310	380	+ 1.615	7.347	5, 6, 7	45.708	0.023	45.731	



	2023 CRACK SEAL LIST (0904-00-200) - FC 1-5														
REF	CONTROL & SECTION	HIGHWAY	COUNTY		IMITS		FROM	TO MKR	TO DISP	LENGTH	# OF LANES	THRU LANE	ADD'L AREA	0712 6008 JT/CRCK SEAL (RUBBER- ASPHALT)	NOTES
				FROM	то					MILES		LMI	LMI	LMI	
35	2722-02	FM 2386	CARSON	SH 152	US 60	76	+ 0.960	84	+ 0.096	5.796	2	11.592	0.014	11.606	CRACK SEAL UP TO RAILROAD CONCRETE PANELS.
36	0169-05	US 60	CARSON	CR S	CR W	358	+ 0.646	362	+ 1.440	4.740	6	28.440	2.274	30.714	SEE ADD'L AREAS "D" & "E"
37	0169-05	US 60	CARSON	0.67 MILES WEST OF CR S	CR S	356	+ 1.963	358	+ 0.646	0.670	6	4.020	0.180	4.200	
38	0169-04	US 60	CARSON	PANHANDLE EAST CITY LIMITS	0.67 MILES WEST OF CR S	352	+ 1.890	356	+ 1.962	3.931	6, 8	23.812	0.822	24.634	
39	0356-02	SH 207	CARSON	FM 293	0.2 MI NORTH OF US 60	104	+ 1.432	106	+ 0.726	1.117	3, 5	4.805		4.805	
40	0169-04	US 60	CARSON	PANHANDLE WEST CITY LIMITS	PANHANDLE EAST CITY LIMITS	352	+ 0.627	352	+ 1.890	1.263	7	8.841		8.841	
41	0169-04	US 60 (EB ONLY)	CARSON	5 MILES WEST OF PANHANDLE	PANHANDLE WEST CITY LIMITS	348	+ 0.063	352	+ 0.627	4.623	6, 7	28.373	2.040	30.413	SEE ADD'L AREAS "F" & "G"
42	0169-03	US 60 (EB ONLY)	CARSON	POTTER COUNTY LINE	5 MILES WEST OF PANHANDLE	338	+ 0.005	348	+ 0.063	9.934	3	29.802	0.738	30.540	
43	2970-03	FM 2880	CARSON	FM 293	0.153 MILES S OF I-40	94	- 0.026	102	+ 0.752	8.608	2	15.537		15.439	NO CRACK SEAL ON CONCRETE PAVEMENT SURFACE.
44	0275-21	BI-40 (F)	CARSON	IH 40 WEST GROOM	GRAY COUNTY LINE	336	- 0.257	340	+ 0.055	3.324	4, 6, 7	20.840	0.048	20.888	
45	0275-22	BI-40 (F)	GRAY	CARSON COUNTY LINE	IH 40 EAST GROOM	340	+ 0.055	340	+ 0.265	0.211	4, 6	0.874	0.876	1.750	SEE ADD'L AREA "H"
46	0793-01	FM 295	CARSON	FM 293	BI 40 F	94	- 0.108	102	+ 0.874	8.701	2, 4	17.642		17.642	
47	0169-13	BI-40 (D)	POTTER	US 60	CARSON COUNTY LINE	312	- 0.050	312	+ 1.475	1.525	7	10.675	0.183	10.858	
48	0169-14	BI-40 (D)	CARSON	POTTER COUNTY LINE	IH 40	312	+ 1.475	316	+ 0.566	3.061	7	21.182	0.405	21.500	NO CRACK SEAL ON CONCRETE PAVEMENT SURFACE. SEE ADD'L AREAS "I" & "J"
49	1840-01	FM 683	CARSON	FM 293	FM 245	92	- 0.101	94	+ 0.052	2.006	2	4.012	0.228	4.240	
50	0664-02	FM 683	CARSON	FM 245	US 60	94	+ 0.052	98	+ 0.211	4.204	2, 3	8.489	0.013	8.502	CRACK SEAL UP TO RAILROAD CONCRETE PANELS.
51	0753-01	FM 293	POTTER	SH 136	CARSON COUNTY LINE	308	- 0.037	310	+ 0.002	1.102	2	2.204		2.204	

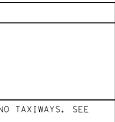


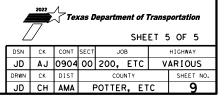
					2023 CRACK SE	AL LI	ST (O	904-0	0-200)) - F	C 1-5	5			
REF	CONTROL & SECTION	HIGHWAY	COUNTY	LIN	ALTS	FROM MKR	FROM DISP	TO MKR	TO DISP	LENGTH	≖ OF LANES	THRU LANE	ADD'L Area	0712 6008 JT/CRCK SEAL (RUBBER- ASPHALT)	NOTES
				FROM	то					MILES		LMI	LMI	LMI	NO CRACK SEAL ON CONC PAVEMENT SURFACE. CRACK SEAL
52	0169-02	US 60	POTTER	1.663 MILES EAST OF US 87	SH 136	326	+ 0.420	326	+ 1.584	1.165	4, 5, 7	5.578	1.971	7.229	UP TO RAILROAD CONCRETE PANELS. SEE ADD'L AREA "K"
53	0169-01	US 60	POTTER	US 87	1.663 MILES EAST OF US 87	324	+ 0.760	326	+ 0.420	1.663	5,6	8.542	0,159	8.701	
54	0090-06	BI-40	POTTER	RM 1061	US 87	296	+ 0.857	300	+ 1.180	4.293	4, 6, 8	25.360	1.730	27.010	NO CRACK SEAL ON CONCRETE PAVEMENT SURFACE. SEE ADD'L AREA "L"
55	2494-01	RM 2381	POTTER	RM 1061	IH 40	96	- 0.038	102	+ 0.044	6.176	2	12.352		12.352	
56	2493-01	FM 1258	POTTER	I - 40	RANDALL COUNTY LINE	102	- 0.082	102	+ 0.597	0.680	2	1.360		1.360	
57	2493-02	FM 1258	RANDALL	POTTER COUNTY LINE	ARMSTRONG COUNTY LINE	102	+ 0.597	120	+ 0.050	16.221	2, 3	34.152		34.152	
58	1335-01	FM 1258	ARMSTRONG	RANDALL COUNTY LINE	SH 207	120	+ 0.050	134	+ 1.383	15.767	2	31.534	0.008	31.542	
59	0357-02	SH 207	ARMSTRONG	US 287 IN CLAUDE	FM 1151 "Y" INTERSECTION	124	+ 0.915	124	+ 1.550	0.635	2, 4	1.510		1.510	
60	0357-03	SH 207	ARMSTRONG	FM 1151 "Y" INTERSECTION	FM 2272	124	+ 1.550	138	+ 0.557	13.004	4	52.016		52.016	
61	0042-03	US 287	ARMSTRONG	0.3 MILES WEST OF CITY LIMITS OF CLAUDE	FM 1151	140	+ 1.861	142	+ 1.233	1.393	4, 6, 8	10.164	0.131	10.295	
62	0042-04	US 287	ARMSTRONG	FM 1151	0.4 MILES EAST OF CLAUDE CITY LIMITS	142	+ 1.233	144	+ 0.444	1.226	4,6	5.400		5.400	
63	2002-02	FM 2219	RANDALL	FM 168	IH 27	282	- 0.069	292	+ 0.252	10.273	2, 4	21.198	0.480	21.648	NO CRACK SEAL ON CONC INTERSECTION. SEE ADD'L AREA "M"
64	0067-01	US 87	RANDALL	RUSSELL LONG INTERSECTION	SOUTH CITY LIMITS OF CANYON	164	- 0.572	164	+ 1.426	1.998	5, 6, 7	11.232	0.032	11.264	
65	3527-01	FM 3331	RANDALL	US 60	FM 1541	292	- 0.252	296	+ 0.300	4.151	2	8.302	0.566	8.868	CRACK SEAL ROAD BENEATH RAILROAD BRIDGE. SEE ADD'L AREA "N"
66	1246-01	FM 1057	DEAF SMITH	US 385	CR 16A	114	- 0.039	118	+ 1.824	5.851	2	11.702	0.012	11.714	
67	2219-01	FM 1057	DEAF SMITH	CR 16A	PARMER COUNTY LINE	118	+ 1.824	138	+ 0.042	16.447	2	32.894		32.894	
			1	1			I			1		CSJ	TOTAL:	1,235.093	



														0712 6008	
REF	CONTROL & SECTION	H[GHWAY	COUNTY	LIN	ALTS	FROM MKR	FROM DISP	TO MKR	TO DISP	LENGTH	= OF LANES	THRU L ANE	ADD'L AREA	JT/CRCK SEAL (RUBBER- ASPHALT)	NOTES
				FROM	ТО					MILES		LMI	LMI	LMI	
68	0727-05	FM 721	MOORE	FM 119	END OF STATE MAINTENANCE	296	- 0.026	296	+ 0.480	0.503	2	1.006		1.006	
69	1108-02	RM 3296	HARTLEY	NEW MEXICO STATE LINE	US 54	230	+ 0.000	238	+ 1.607	9.390	2	18.780	0.012	18.716	NO CRACK SEAL IN RAILROAD'S RIGHT-OF-WAY.
70	1489-01	FM 1573	SHERMAN	SOUTH FM 119	HANSFORD COUNTY LINE	298	+ 0.819	316	+ 0.006	16.281	2	32.562		32.562	
71	1489-02	FM 1573	HANSFORD	SHERMAN COUNTY LINE	SH 15	316	+ 0.006	320	+ 1.172	5.242	2	10.484	0.393	10.877	
72	2900-01	FM 3214	HANSFORD	FM 1261	END OF STATE MAINTENANCE	14	- 0.034	26	+ 1.119	13.299	2	26.598		26.598	
73	0753-03	FM 293	CARSON	FM 295	GRAY COUNTY LINE	340	+ 0.738	342	+ 0.314	1.573	2	3.146		3.146	
74	0753-04	FM 293	GRAY	CARSON COUNTY LINE	SH 70	342	+ 0.314	350	+ 2.083	8.244	2	16.488	0.012	16.500	
75	1339-01	FM 1454	LIPSCOMB	OKLAHOMA STATE LINE	SH 15	14	- 0.058	18	+ 0.696	4.627	2	9.254	0.010	9.264	
76	1339-03	FM 1454	LIPSCOMB	SH 15	FM 2741	20	- 0.435	20	+ 0.167	0.601	2	1.202	0.077	1.279	
77	1339-02	FM 1454	LIPSCOMB	FM 2741	SH 213	20	+ 0.167	38	+ 0.862	17.480	2	34.960	0.008	34.968	
78	2218-01	FM 2373	CARSON	0.1 MILE SOUTH OF IH 40 SOUTH FRONTAGE ROAD	ARMSTRONG COUNTY LINE	100	+ 1.344	104	+ 0.002	2.368	2	4.736		4.736	
79	2218-02	FM 2373	ARMSTRONG	CARSON COUNTY LINE	US 287	104	+ 0.002	104	+ 1.035	1.032	2	2.064	0.010	2.074	CRACK SEAL UP TO RAILROAD CONCRETE PANELS.
80	2496-01	FM 1721	RANDALL	END OF STATE MAINTENANCE	FM 285	126	- 0.006	128	+ 0.050	2.523	2	5.046	0.014	5.060	
81	0275-02	IH 40 (NFR)	CARSON	B I - 40 - D	3.72 MILES WEST OF CONWAY	84	+ 1.528	92	+ 1.102	8.057	2	16.114	0.604	16.718	
82	0275-03	IH 40 (NFR)	CARSON	3.72 MILES WEST OF CONWAY	SH 207	92	+ 1.102	96	+ 0.893	3.791	2	7.582	0.042	7.624	
	1	1		1	1				1	I			TOTAL:	191.128	

				202	23 CRACK SEAL LI	ST (09	04-10	-003)	AIRPO	RT	
REF	CONTROL & SECTION	HICHWAY	COUNTY	LI	MITS	LENGTH	# OF LANES	THRU LANE	ADD'L Area	0712 6022 JT/CRCK SEAL (RUBBER- ASPHALT) RAMPS	NOTES
				FROM	TO	MILES		LMI	LMI	LMI	
83	0904-00	ROBERTS CO AIRPORT	ROBERTS	RUNWAY 1	RUNWAY 1	0.767	0	0.000	3.068	3.068	WORK TO BE DONE ON RUNWAY ONLY. NO ADD'L AREA "O".
-				•	·	•		CS.	J TOTAL:	3,068	





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).
- The development and design of the Traffic Control Plan (TCP) is the 2. responsibility of the Engineer.
- The Contractor may propose changes to the TCP that are signed and sealed by a licensed professional engineer for approval. The Engineer may develop. sign and seal Contractor proposed changes.
- 4. The Contractor is responsible for installing and maintaining the traffic control devices as shown in the plans. The Contractor may not move or change the approximate location of any device without the approval of the Engineer.
- 5. Geometric design of lane shifts and detours should, when possible, meet the applicable design criteria contained in manuals such as the American Association of State Highway and Transportation Officials (AASHTO), "A Policy on Geometric Design of Highways and Streets," the TxDOT "Roadway Design Manual" or engineering judgment.
- When projects abut, the Engineer(s) may omit the END ROAD WORK, TRAFFIC 6. FINES DOUBLE, and other advance warning signs if the signing would be redundant and the work areas appear continuous to the motorists. If the adjacent project is completed first, the Contractor shall erect the necessary warning signs as shown on these sheets, the TCP sheets or as directed by the Engineer. The BEGIN ROAD WORK NEXT X MILES sign shall be revised to show appropriate work zone distance.
- The Engineer may require duplicate warning signs on the median side of divided highways where median width will permit and traffic volumes justify the signing.
- 8. All signs shall be constructed in accordance with the details found in the "Standard Highway Sign Designs for Texas," latest edition. Sign details not shown in this manual shall be shown in the plans or the Engineer shall provide a detail to the Contractor before the sign is manufactured.
- 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. Where highway construction or maintenance work is being undertaken, other than mobile operations as defined by the Texas Manual on Uniform Traffic Control Devices, CSJ limit signs are required. CSJ limit signs are shown ON BC(2). THE OBEY WARNING SIGNS STATE LAW sign. STAY ALERT TALK OR TEXT LATER and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shall be erected in advance of the CSJ limits. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK signs shall be erected at or near the CSJ limits. For mobile operations, ČSJ limit signs are not required.
- 11. Traffic control devices should be in place only while work is actually in progress or a definite need exists.
- 12. The Engineer has the final decision on the location of all traffic control devices.
- 13. Inactive equipment and work vehicles, including workers' private vehicles must be parked away from travel lanes. They should be as close to the right-of-way line as possible, or located behind a barrier or guardrail, or as approved by the Engineer.

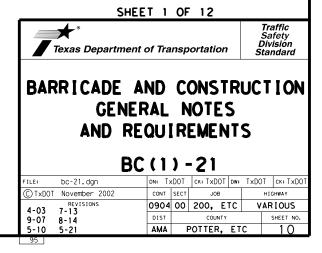
WORKER SAFETY NOTES:

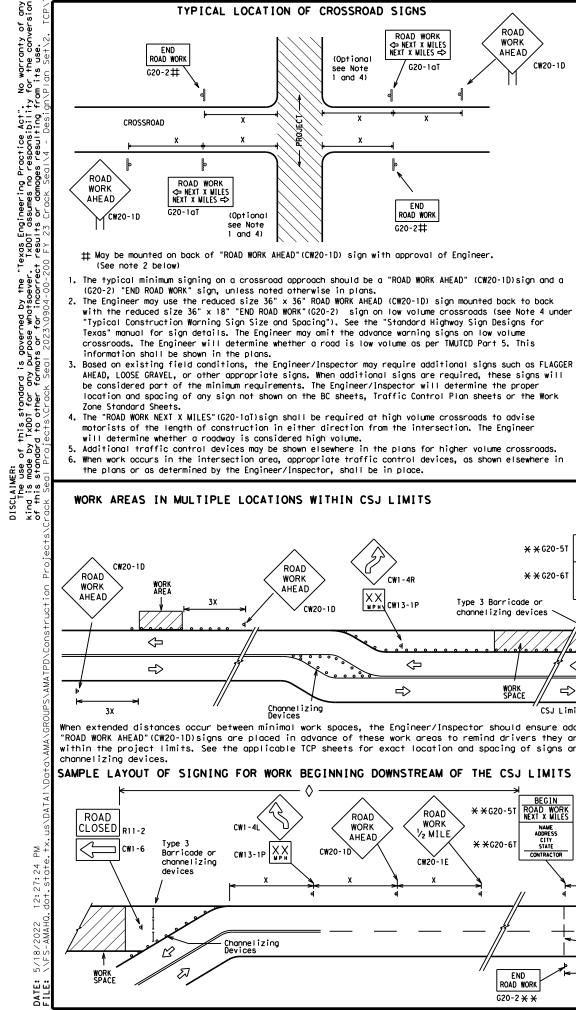
- 1. Workers on foot who are exposed to traffic or to construction equipment within the right-of-way shall wear high-visibility safety apparel meeting the requirements of ISEA "American National Standard for High-Visibility" Apparel," or equivalent revisions, and labeled as ANSI 107-2004 standard performance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

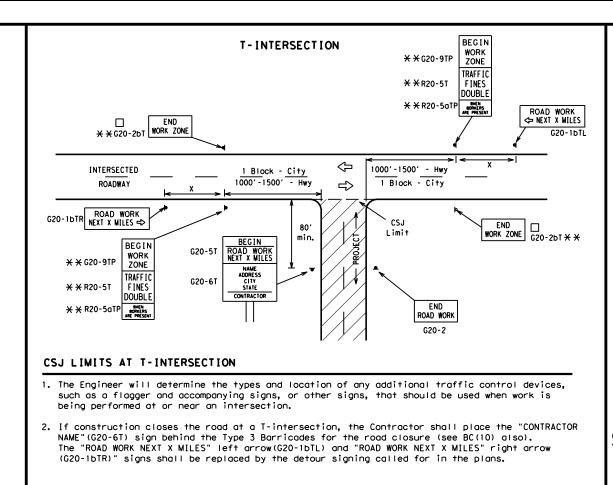
COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

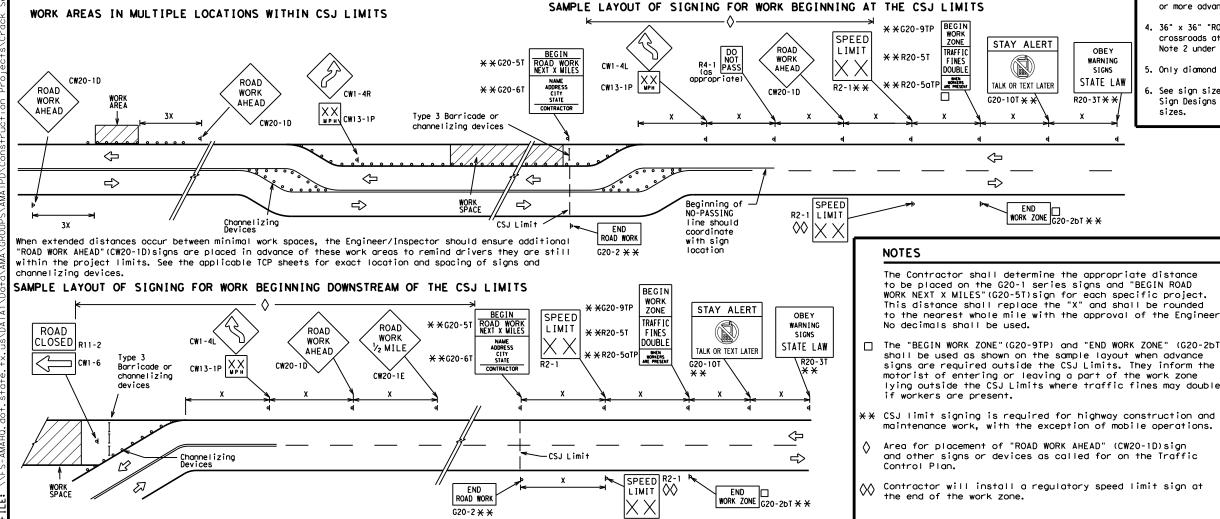
- 1. Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources.
- 2. Work zone traffic control devices shall be compliant with the Manual for Assessing safety Hardware (MASH).

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









ROAD

WORK

AHEAD

G20-1aT

CW20-1D

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

SIZE

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

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

SPACING

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

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

GENERAL NOTES

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

9-07 8-14

7-13 5-21

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.

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		000	Chanr	neliz	ing	Devi	ces		
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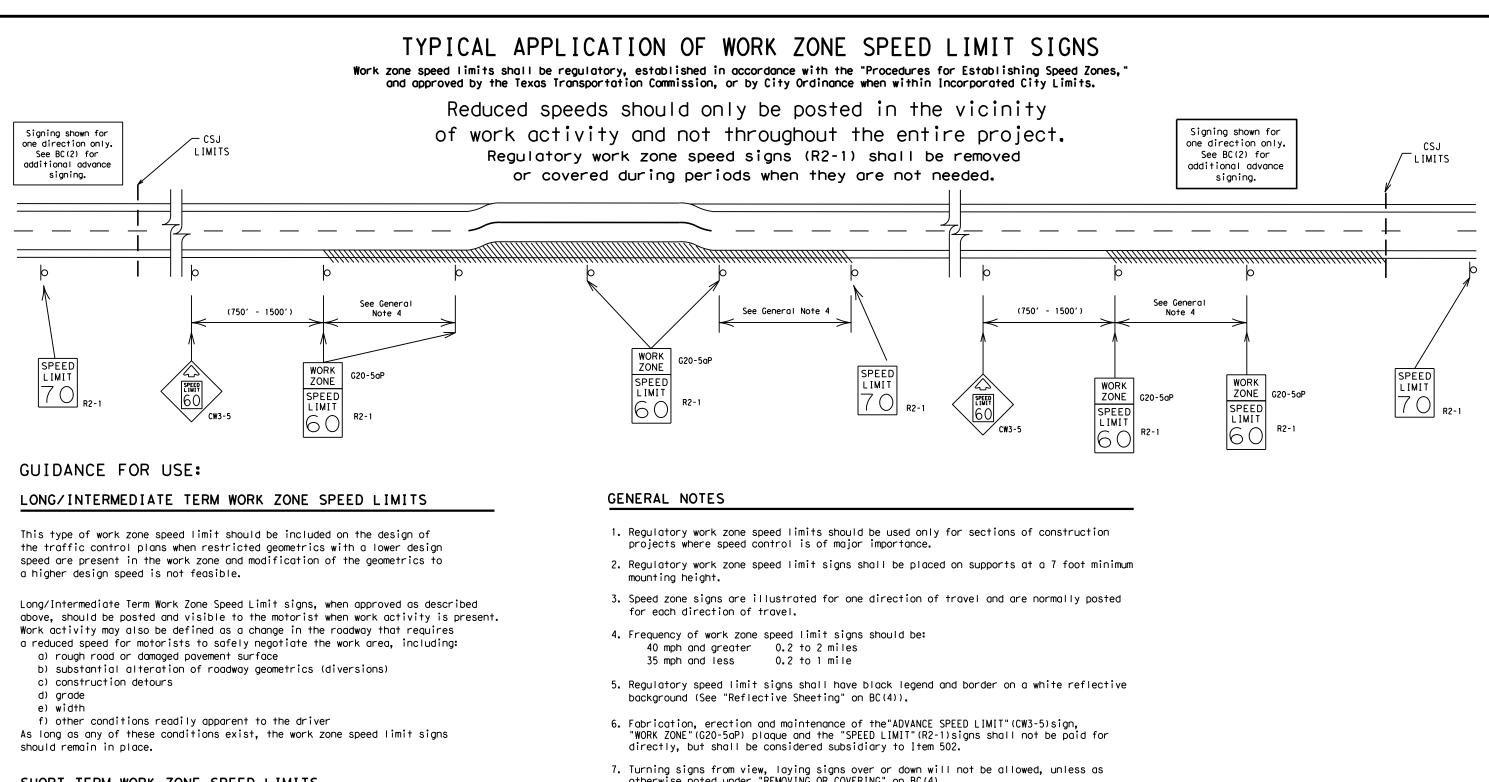
ΔΜΔ

COUNTY

POTTER, ETC

SHEET NO

11



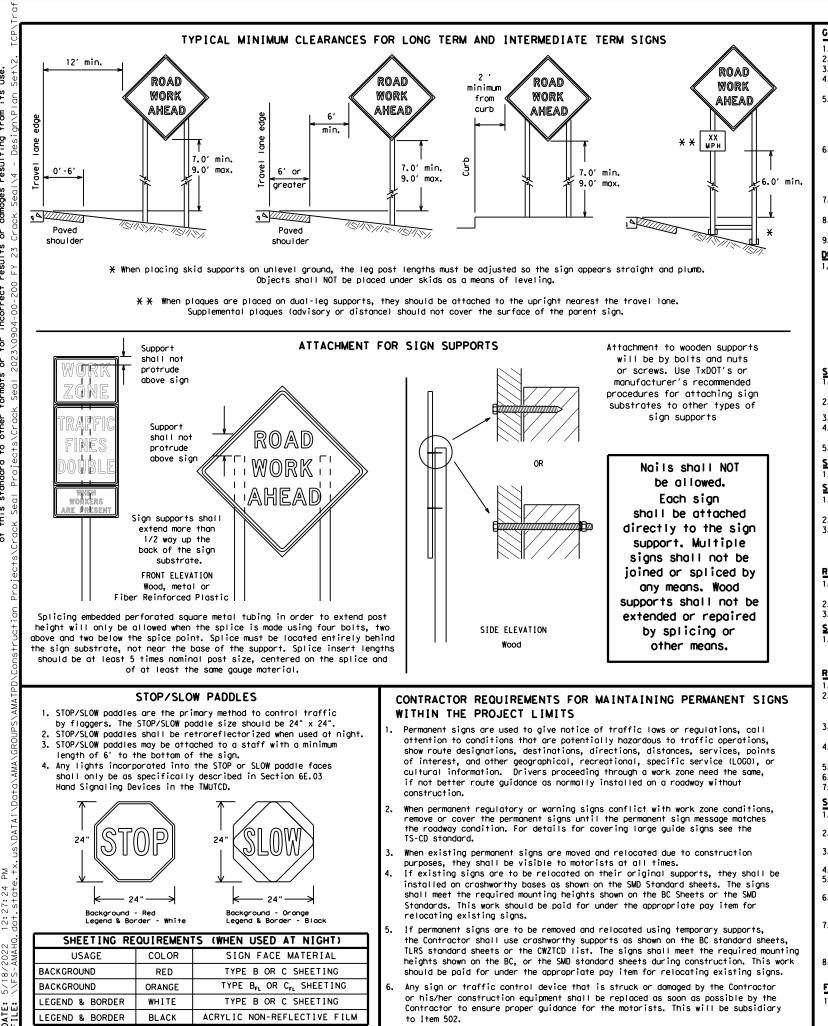
SHORT TERM WORK ZONE SPEED LIMITS

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 traveled way.

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

- 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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BARRICADE AND CONSTRUCTION WORK ZONE SPEED LIMIT BC (3) - 21									
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GENERAL NOTES FOR WORK ZONE SIGNS

- Contractor shall install and maintain signs in a straight and plumb condition and/or as directed by the Engineer.
- Wooden sign posts shall be painted white. Barricades shall NOT be used as sign supports
- guide the traveling public safely through the work zone.
- 5. the Inspector's TxDOT diary and having both the Inspector and Contractor initial and date the agreed upon changes.
- the Engineer can verify the correct procedures are being followed.
- damaged or marred reflective sheeting as directed by the Engineer/Inspector.
- for identification shall be 1 inch.
- The Contractor shall replace damaged wood posts. New or damaged wood sign posts shall not be spliced.

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

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

SIGN MOUNTING HEIGHT

- as shown for supplemental plaques mounted below other signs.
- the ground. Long-term/Intermediate-term Signs may be used in Lieu of Short-term/Short Duration signing.
- Short-term/Short Duration signs shall be used only during daylight and shall be removed at the end of the workday or raised to
- appropriate Long-term/Intermediate sign height.

SIZE OF SIGNS

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

SIGN SUBSTRATES

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

REFLECTIVE SHEETING

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

SIGN LETTERS

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

REMOVING OR COVERING

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

SIGN SUPPORT WEIGHTS

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

FLAGS ON SIGNS

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

s on ê Ç No warra for the om its us .£Ĕ of this standard is governed by the "Texas Engineering Practice Act by TXDOT for any purpose whatsoever. TXDOT assumes no responsibil that to other formats or for incorrect results or damages resulting AER: use stan DISCLAIN The kind is of this

> 12:27:24 5/

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

The Contractor may furnish either the sign design shown in the plans or in the "Standard Highway Sign Designs for Texas" (SHSD). The Engineer/Inspector may require the Contractor to furnish other work zone signs that are shown in the TMUTCD but may have been omitted from the plans. Any variation in the plans shall be documented by written agreement between the Engineer and the Contractor's Responsible Person. All changes must be documented in writing before being implemented. This can include documenting the changes in

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

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

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

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

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

Short-term stationary - daytime work that occupies a location for more than 1 hour in a single daylight period.

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

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

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

The Contractor shall ensure the sign substrate is installed in accordance with the manufacturer's recommendations for the type of sign support that is being used. The CWZICD lists each substrate that can be used on the different types and models of sign supports. All wooden individual sign panels fabricated from 2 or more pieces shall have one or more plywood cleat, 1/2" thick by 6" wide, fastened to the back of the sign and extending fully across the sign. The cleat shall be attached to the back of the sign using wood screws that do not penetrate the face of the sign panel. The screws shall be placed on both sides of the splice and spaced at 6"

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

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

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

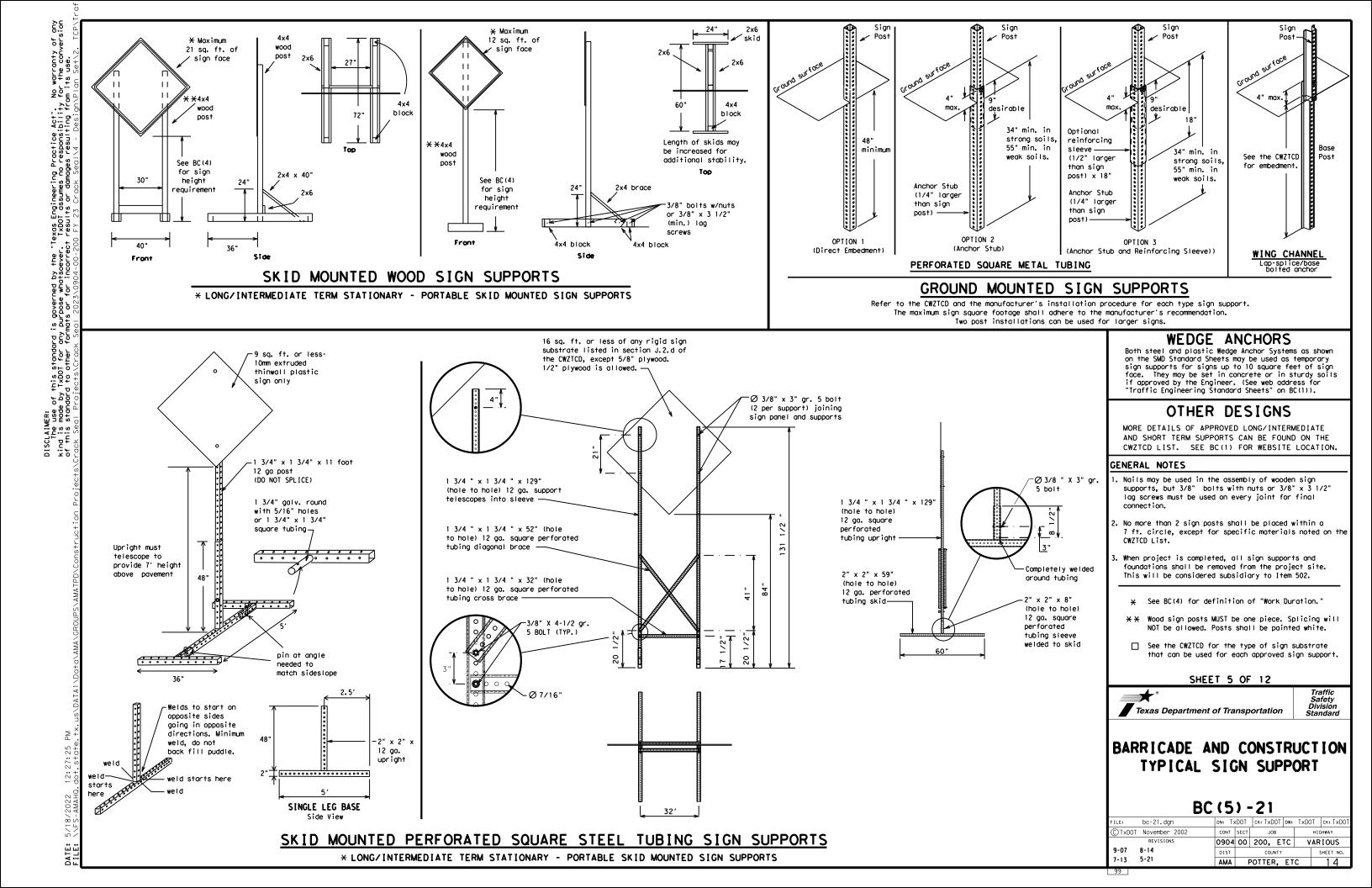
When signs are covered, the material used shall be opaque, such as heavy mil black plastic, or other materials which will cover the

SHEET 4 OF 12

st Texas Department of Transportation Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES

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

PORTABLE CHANGEABLE MESSAGE SIGNS

- 1. The Engineer/Inspector shall approve all messages used on portable changeable message signs (PCMS).
- Messages on PCMS should contain no more than 8 words (about four to 2. eight characters per word), not including simple words such as "TO, "FOR." "AT." etc.
- Messages should consist of a single phase, or two phases that 3. 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.
- When in use, the bottom of a stationary PCMS message panel should be 6. 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	WORD OR PHRASE	ABBREVIATION
Access Road	ACCS RD	Major	MAJ
Alternate	ALT	Miles	MI
Avenue	AVE	Miles Per Hour	MPH
Best Route	BEST RTE	Minor	MNR
Boulevard	BLVD	Monday	MON
Bridge	BRDG	Normal	NORM
Cannot	CANT	North	N
Center	CTR	Nor thbound	(route) N
Construction Ahead	CONST AHD	Parking	PKING
CROSSING	XING	Road	RD
Detour Route	DETOUR RTE	Right Lane	RT LN
Do Not	DONT	Saturday	SAT DD
East	F	Service Road	SERV RD
Eastbound	(route) E	Shoulder	SHLDR
Emergency	EMER	Slippery	SLIP
Emergency Vehicle	EMER VEH	South	S
Entrance, Enter	ENT	Southbound	(route) S
Express Lane	EXP LN	Speed	SPD
Expressway	EXPWY	Street	ST
XXXX Feet	XXXX FT	Sunday	SUN
Fog Ahead	FOG AHD	Telephone	PHONE
Freeway	FRWY, FWY	Temporary	TEMP
Freeway Blocked	FWY BLKD	Thursday	THURS
Friday		To Downtown	TO DWNTN
Hazardous Driving		Traffic	TRAF
Hazardous Material		Travelers	TRVLRS
High-Occupancy	HOV	Tuesday	TUES
Vehicle		Time Minutes	TIME MIN
Highway	HWY	Upper Level	UPR LEVEL
Hour (s)	HR, HRS	Vehicles (s)	VEH, VEHS
Information	INFO	Warning	WARN
It is	ITS	Wednesday	WED
Junction	JCT	Weight Limit	WT LIMIT
Left	LFT	West	W
Left Lane	LFT LN	Westbound	(route) W
Lett Lane	LFT LN	Wet Pavement	WET PVMT
Lower Level	LWR LEVEL	Will Not	WONT
Maintenance	MAINT		
MUTHTENUICE	MAINI	I	

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

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Phase 1: Condition Lists

Road/Lane/Ramp Closure List

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

Other Co	ndition 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

	e/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] *

APPLICATION GUIDELINES

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

WORDING ALTERNATIVES

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

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

FULL MATRIX PCMS SIGNS

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

12:27:

Roadway

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

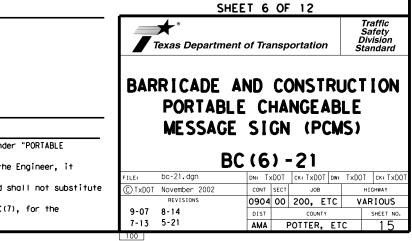
Phase 2: Possible Component Lists

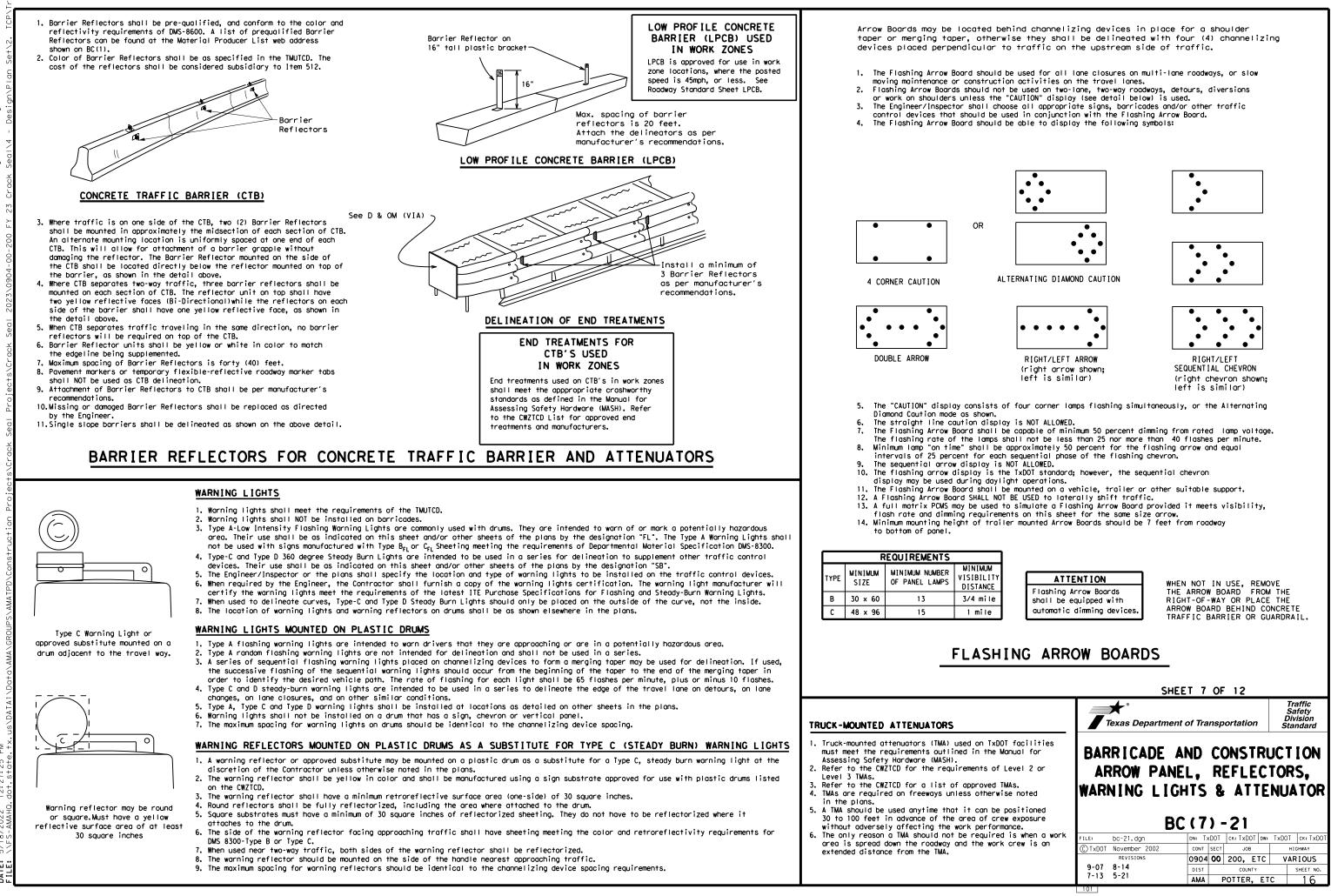


* * See Application Guidelines Note 6.

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



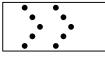


Μ 12:27:25 5 DATE:











GENERAL NOTES

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

GENERAL DESIGN REQUIREMENTS

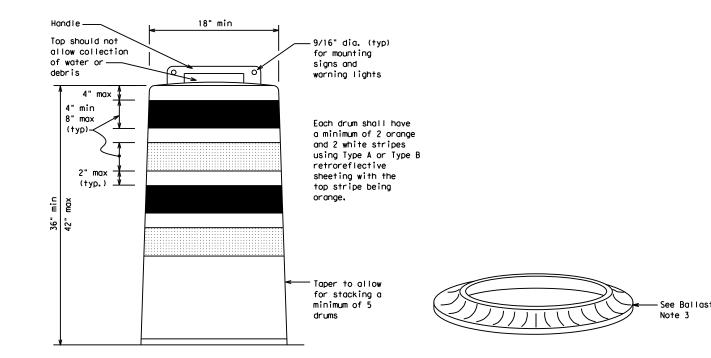
- Pre-gualified plastic drums shall meet the following requirements:
- 1. Plastic drums shall be a two-piece design; the "body" of the drum shall be the top portion and the "base" shall be the bottom.
- 2. The body and base shall lock together in such a manner that the body separates from the base when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

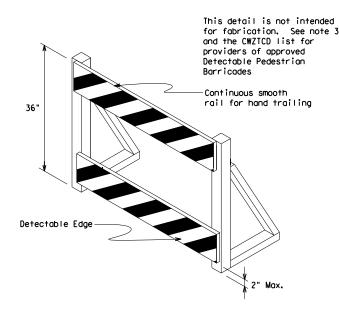
RETROREFLECTIVE SHEETING

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

BALLAST

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





DETECTABLE PEDESTRIAN BARRICADES

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

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(Maximum Sign Dimension)

Chevron CW1-8, Opposing Traffic Lane

Divider, Driveway sign D70a, Keep Right

R4 series or other signs as approved

by Engineer



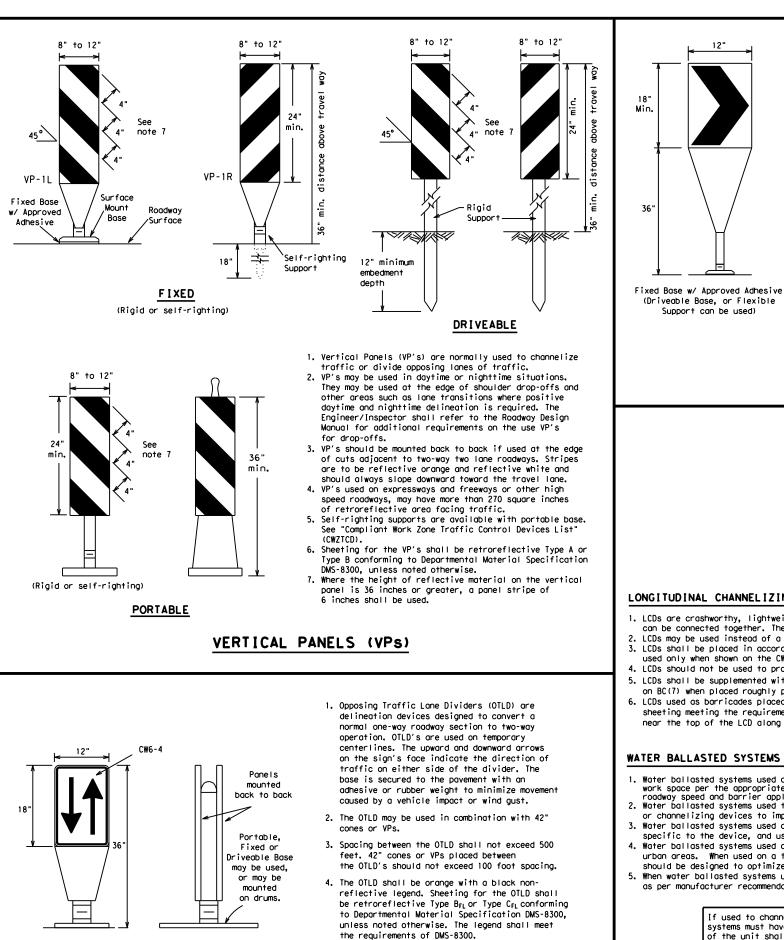
12" x 24" Vertical Panel mount with diagonals sloping down towards travel way

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

SIGNS, CHEVRONS, AND VERTICAL PANELS MOUNTED ON PLASTIC DRUMS

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

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OPPOSING TRAFFIC LANE DIVIDERS (OTLD)

1. The chevron shall be a vertical rectangle with a minimum size of 12 by 18 inches.

2. Chevrons are intended to give notice of a sharp change of alignment with the direction of travel and provide additional emphasis and guidance for vehicle operators with regard to changes in horizontal alignment of the roadway.

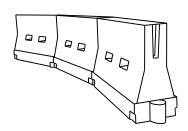
3. Chevrons, when used, shall be erected on the out side of a sharp curve or turn, or on the far side of an intersection. They shall be in line with and at right angles to approaching traffic. Spacing should be such that the motorist always has three in view, until the change in alignment eliminates its need.

4. To be effective, the chevron should be visible for at least 500 feet.

5. Chevrons shall be orange with a black nonreflective legend. Sheeting for the chevron shall be retroreflective Type B_{FL} or Type C_{FL} conforming to Departmental Material Specification DMS-8300, unless noted otherwise. The legend shall meet the requirements of DMS-8300.

6. For Long Term Stationary use on tapers or transitions on freeways and divided highways, self-righting chevrons may be used to supplement plastic drums but not to replace plastic drums.

CHEVRONS



LONGITUDINAL CHANNELIZING DEVICES (LCD)

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

WATER BALLASTED SYSTEMS USED AS BARRIERS

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

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.
- 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	D	Minimur esirab er Lena X X	le gths	Spacin Channe	
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent
30		150'	1651	180′	30'	60′
35	$L = \frac{WS^2}{60}$	205'	225′	245'	35′	70′
40	80	265'	295′	320'	40′	80′
45		450'	495′	540'	45′	90′
50		500'	550'	600'	50 <i>'</i>	100'
55	L=WS	550'	605′	660 <i>′</i>	55 <i>'</i>	110′
60	L - # 3	600 <i>'</i>	660'	720'	60 <i>'</i>	120′
65		650′	715′	780′	65 <i>'</i>	130'
70		700′	770'	840′	70′	140'
75		750′	825′	900'	75′	150'
80		800'	880′	960'	80 <i>'</i>	160'

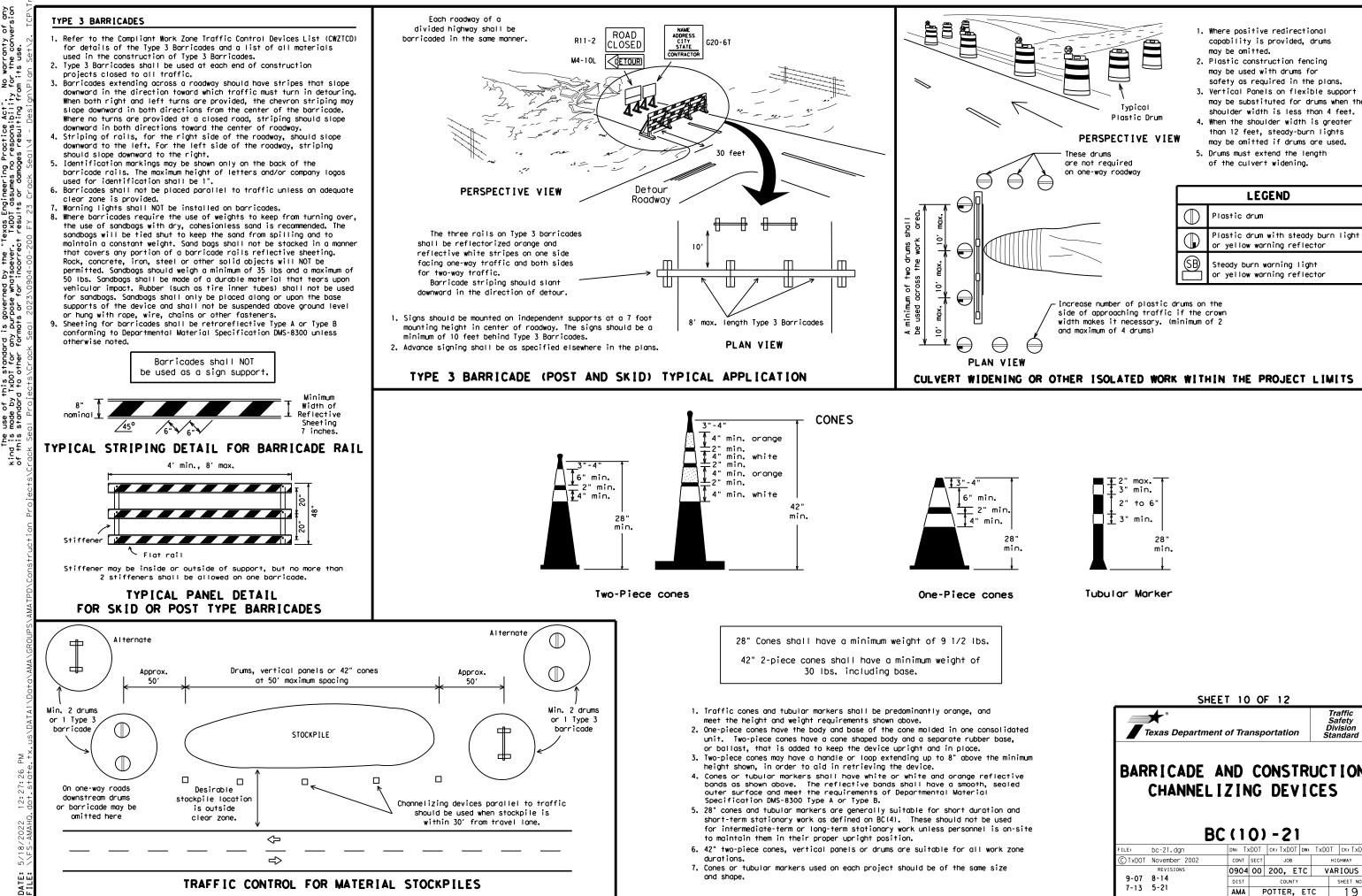
L=Length of Taper (FT.) W=Width of Offset (FT.) S=Posted Speed (MPH) SUGGESTED MAXIMUM SPACING OF

XX Taper lengths have been rounded off.

CHANNELIZING DEVICES AND MINIMUM DESIRABLE TAPER LENGTHS

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CHANNELIZING DEVI	CES

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WORK ZONE PAVEMENT MARKINGS

Temporary Flexible-Reflective Roadway Marker Tabs

<u>GENERAL</u>

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

RAISED PAVEMENT MARKERS

- 1. Raised pavement markers are to be placed according to the patterns on $\mathsf{BC}\left(\mathsf{12}\right)$.
- 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.
- Non-removable prefabricated pavement markings (foil back) shall meet the requirements of DMS-8240.

MAINTAINING WORK ZONE PAVEMENT MARKINGS

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

REMOVAL OF PAVEMENT MARKINGS

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

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

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

RAISED PAVEMENT MARKERS USED AS GUIDEMARK

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

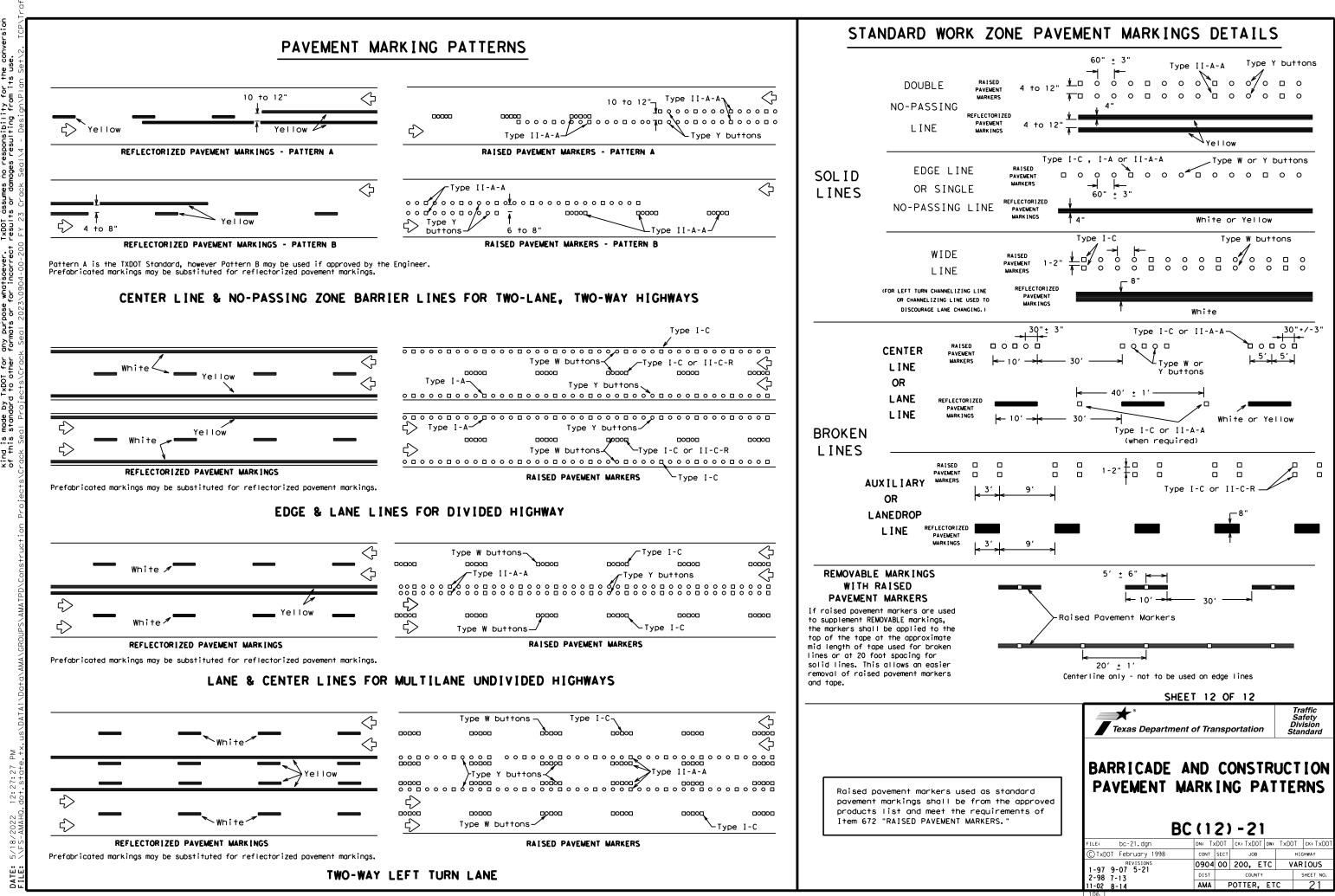
Guidemarks shall be designated as:

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

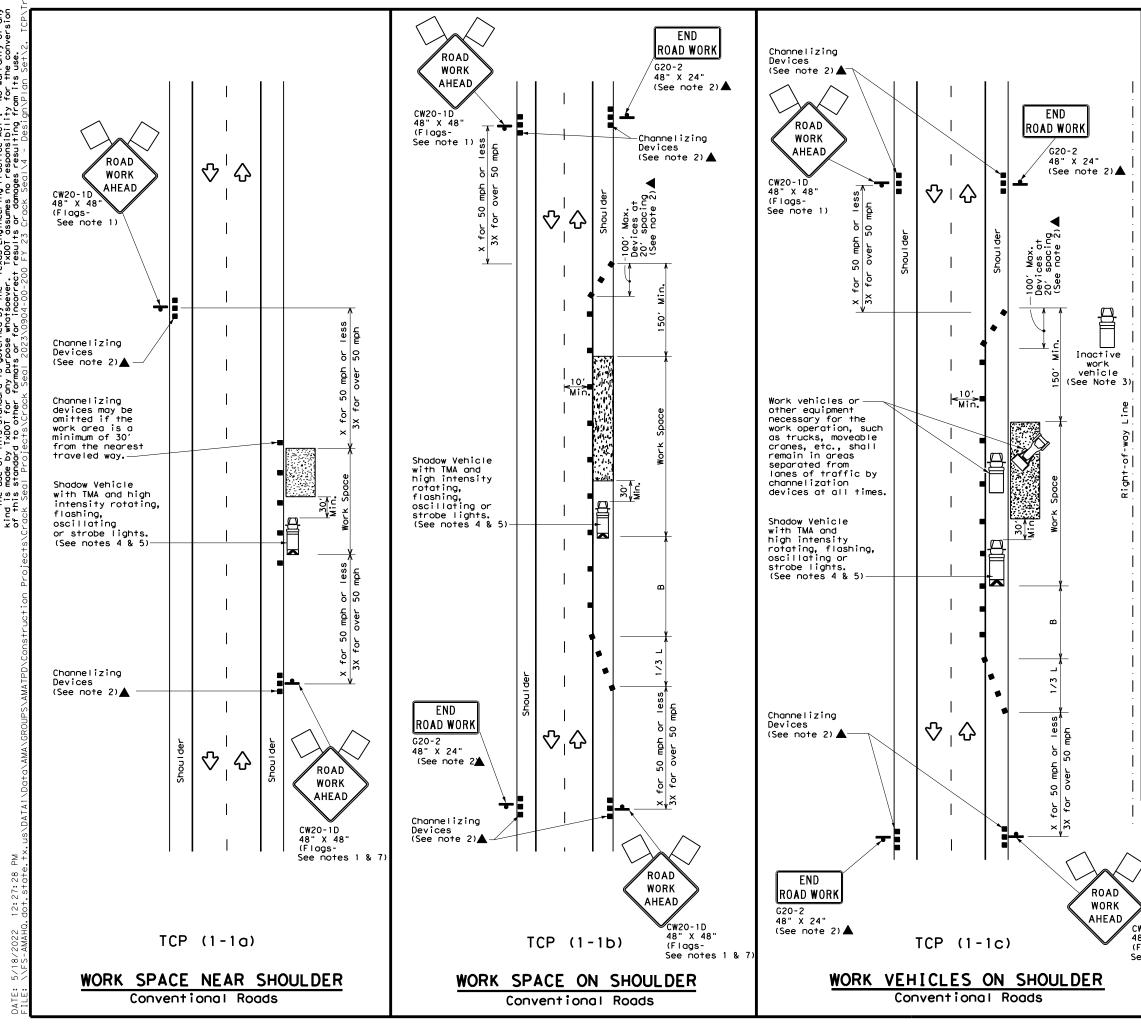
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DATE: 5/1

	DEPARTMENTAL MATERIAL SPECIFICATI	ONS
	ENT MARKERS (REFLECTORIZED)	DMS-4200
		DMS-4300
w	AND ADHESIVES	DMS-6100 DMS-6130
∽ ∣⊢—	NENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240
	RARY REMOVABLE, PREFABRICATED	
┘│ ┃┣━━━	ENT MARKINGS RARY FLEXIBLE, REFLECTIVE	DMS-8241
	AY MARKER TABS	DMS-8242
paveme	flective traffic buttons, roadway marker tal nt markings can be found at the Material Pro Idress shown on BC(1).	
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	SHEET 11 OF 12	
		Traffic Safety
	Texas Department of Transportation	
		Safety Division Standard
	Texas Department of Transportation	Safety Division Standard
	Texas Department of Transportation BARR I CADE AND CONSTR PAVEMENT MARK INC BC (111) - 21 FILE: DC-21. dgn	Safety Division Standard
	Texas Department of Transportation BARR I CADE AND CONSTR PAVEMENT MARK INC BC (111) - 21	Safety Division Standard



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rranty of any he conversion use. ĕtŏ "Texas Engineering Practice Act". No TxDOT assumes no responsibility for tresults or damages resulting from i of this standard is governed by the "Te by TxDOT for any purpose whatsoever. dard to other formats or for incorrect DISCLAIMER: The use of kind is mode of this stand

	LEGEND								
	Type 3 Barricade		Channelizing Devices						
	Heavy Work Vehicle	K	Truck Mounted Attenuator (TMA)						
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)						
•	Sign	2	Traffic Flow						
\Diamond	Flag	٩	Flagger						

Speed	Formula	**			Špacir Channe		Minimum Sign Spacing "x"	Suggested Longitudina। Buffer Space
*		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"B"
30		150'	165′	180'	30′	60'	120'	90'
35	$L = \frac{WS^2}{60}$	205'	225′	245'	35′	70′	160'	120′
40	60	265′	295'	320'	40′	80′	240'	155′
45		450'	495′	540′	45′	90′	320′	195′
50		500'	550ʻ	600′	50 <i>'</i>	100'	400′	240′
55	L=WS	550'	605 <i>'</i>	660 <i>'</i>	55′	110'	500 <i>'</i>	295′
60	L - # 5	600 <i>'</i>	660 <i>'</i>	720'	60′	120'	600 <i>'</i>	350′
65		650 <i>'</i>	715′	780′	65 <i>'</i>	130'	700′	410′
70		700'	770'	840 <i>'</i>	70'	140'	800'	475′
75		750'	825′	900′	75′	150'	900′	540′

* Conventional Roads Only

XX Taper lengths have been rounded off.

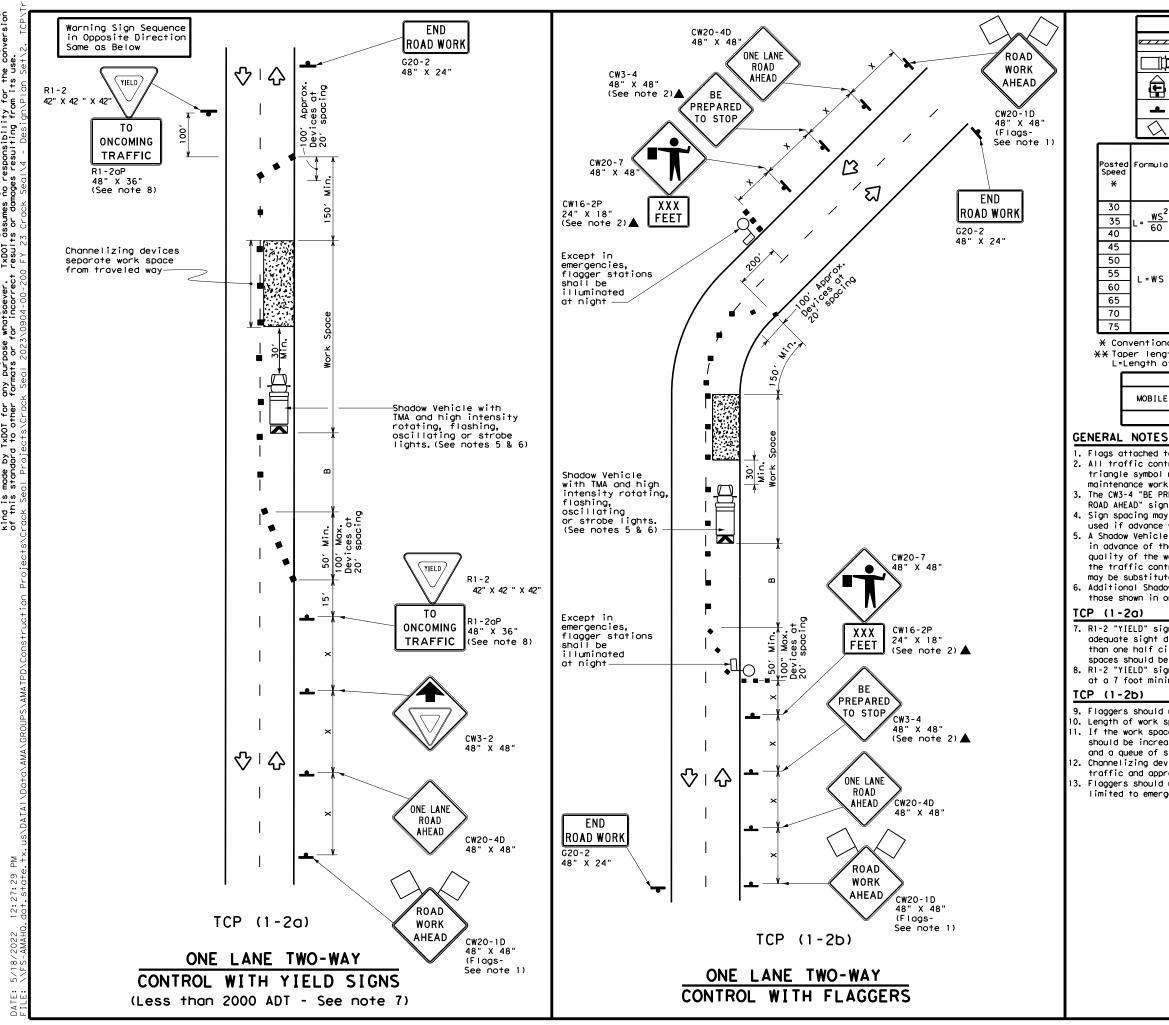
L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

		TYPICAL U	JSAGE	
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	1	1		

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. Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
- A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- 5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces, 6. See TCP(5-1) for shoulder work on divided highways, expressways and
- freeways. 7. CW21-5 "SHOULDER WORK" signs may be used in place of CW20-1D
- "ROAD WORK AHEAD" signs for shoulder work on conventional roadways.

	Texas Departmen	t of Transp	oortation	Traffic Operations Division Standard
CW20-1D 48" X 48" (Flags-			L ROA WORK	
See notes 1 & 7)	FILE: tcp1-1-18.dgn	DN:	CK: DW:	Ск:
	© TxDOT December 1985	CONT SECT	JOB	HIGHWAY
	REVISIONS 2-94 4-98	0904 00	200, ETC	VARIOUS
	8-95 2-12	DIST	COUNTY	SHEET NO.
	1-97 2-18	AMA F	POTTER, ET	c 22
	151			



	LEGEND									
e	z Туре	e 3 Bo	prrica		С	hanneliz				
	Heav	y Wor	'k Veh	icle	K		ruck Mou ttenuato			
Ē	Trailer Mounted Flashing Arrow Board			ed A Portable Changeable						
-	Sigr	ו			\Diamond	т	raffic F	low	1	
\bigtriangleup	Fla	9		L _O F			lagger]	
Formula	D	Minimur esirab er Len X X	le	Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "X"	Suggested Longitudinal Buffer Space	Stopping Sight Distance		
	10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		Distance	"В"		
2	150'	165′	180'	30′	60'		120′	90′	200'	
$L = \frac{WS^2}{60}$	205'	225'	245'	35′	70'		160'	120'	250 <i>'</i>	
60	265'	295'	320'	40'	80'		240'	155'	305′	
	450 <i>'</i>	495′	540'	45′	90'		320'	195'	360'	
	500'	550ʻ	600'	50 <i>'</i>	100'		400′	240'	425'	
L=₩S	550'	605 <i>'</i>	660'	55'	110'		500 <i>'</i>	295'	495′	
- "3	600'	660′	720'	60′	120'		600 <i>'</i>	350'	570'	
	650 <i>'</i>	715′	780′	65′	130'		700′	410′	645′	
	700′	770'	840'	70'	140'		800′	475′	730'	
	750'	825′	900'	75'	150'		900′	540'	820'	

X 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					
	1	1							

1. Flags attached to signs where shown are REQUIRED.

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

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

4. Sign spacing may be increased or an additional CW20-1D "ROAD WORK AHEAD" sign may be used if advance warning ahead of the flagger or R1-2 "YIELD" sign is less than 1500 feet. 5. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.

6. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.

 R1-2 "YIELD" sign traffic control may be used on projects with approaches that have adequate sight distance. For projects in urban areas, work spaces should be no longer than one half city block. In rural areas on roadways with less than 2000 ADT, work spaces should be no longer than 400 feet.

8. R1-2 "YIELD" sign with R1-2aP "TO ONCOMING TRAFFIC" plaque shall be placed on a support at a 7 foot minimum mounting height.

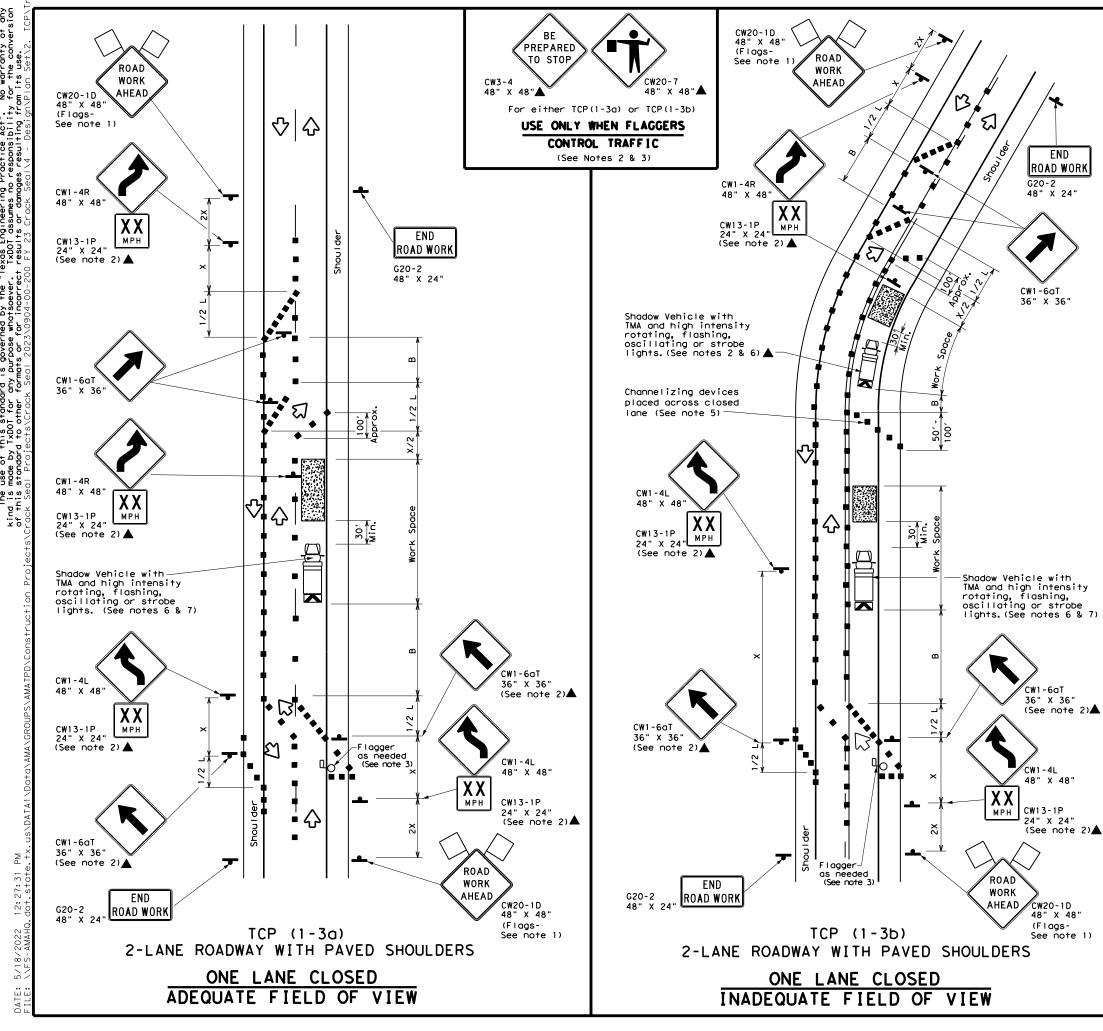
9. Flaggers should use two-way radios or other methods of communication to control traffic. 10. Length of work space should be based on the ability of flaggers to communicate. 11. If the work space is located near a horizontal or vertical curve, the buffer distances

should be increased in order to maintain adequate stopping sight distance to the flagger and a queue of stopped vehicles (see table above).

12. Channelizing devices on the center-line may be omitted when a pilot car is leading traffic and approved by the Engineer.

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

Texas Department	of Tra	nsp	ortatio	on	Op L	Traffic perations Division tandard	
TRAFFIC CONTROL PLAN ONE-LANE TWO-WAY TRAFFIC CONTROL TCP(1-2)-18							
FILE: tcp1-2-18,dgn	DN:		СК:	DW:		CK:	
CTxDOT December 1985	CONT	SECT	JOB			HIGHWAY	
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2-94 2-12	DIST		COUN	ITY		SHEET NO.	



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	LEGEND								
<u>~~~~</u>	Type 3 Barricade		Channelizing Devices						
□¤	Heavy Work Vehicle	K	Truck Mounted Attenuator (TMA)						
Ð	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)						
-	Sign	2	Traffic Flow						
\bigtriangleup	Flag	٩	Flagger						

Posted Formula Speed *		Desirable Taper Lengths X X			Spacin Channe		Minimum Sign Spacing "x"	Suggested Longitudina। Buffer Space
*		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"B"
30		150′	165′	180′	30′	60′	120'	90'
35	$L = \frac{WS^2}{60}$	205'	225'	245'	35′	70'	160'	120'
40	60	265′	295′	320'	40′	80'	240'	155'
45		450'	495′	540'	45′	90'	320'	195'
50		500'	550'	600 <i>'</i>	50 <i>'</i>	100′	400′	240′
55	L=WS	550′	605′	660′	55 <i>'</i>	110′	500 <i>'</i>	295′
60	L-#3	600′	660 <i>'</i>	720′	60′	120'	600 <i>'</i>	350'
65		650 <i>'</i>	715′	780′	65 <i>'</i>	130'	700'	410′
70		700'	770′	840′	70'	140′	800'	475′
75		750'	825′	900′	75′	150'	900′	540′

X Conventional Roads Only

XX Taper lengths have been rounded off.

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

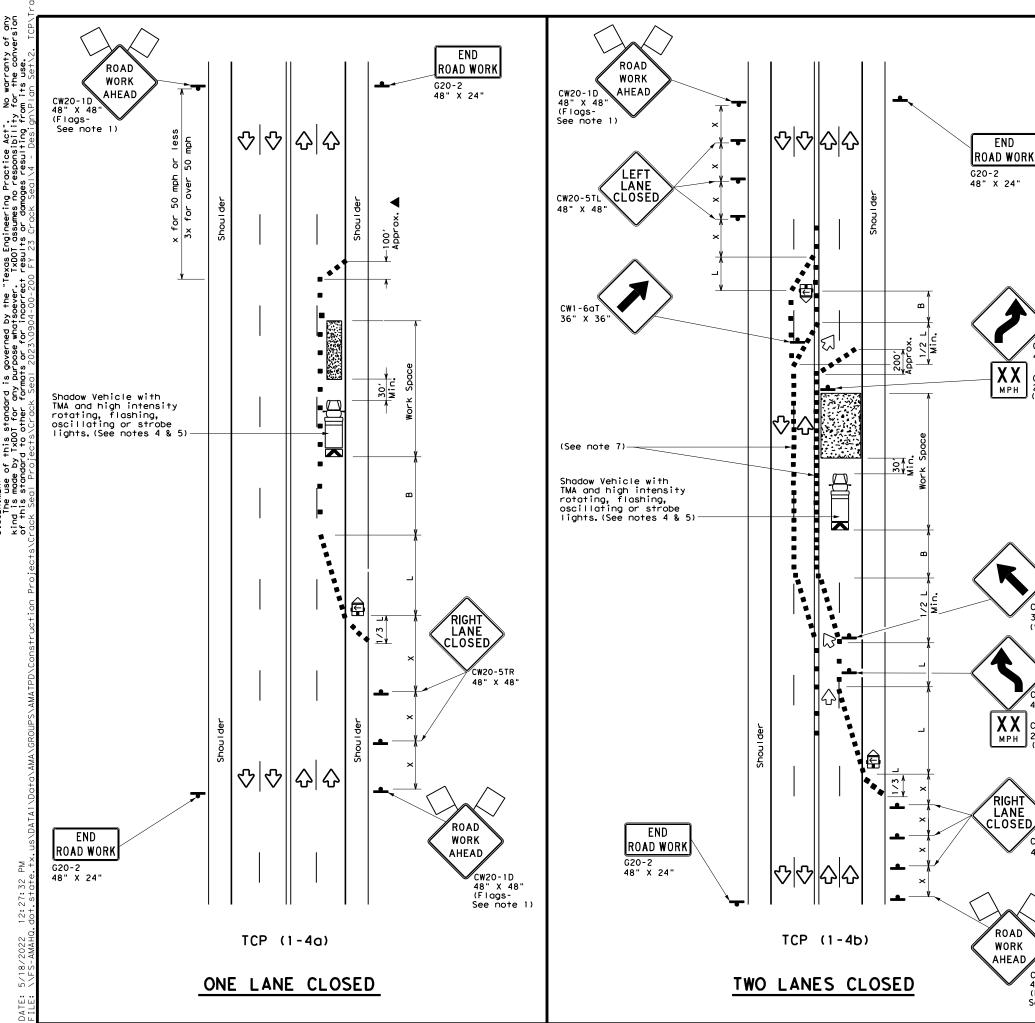
TYPICAL USAGE							
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY			
	1	1					

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. Flagger control should NOT be used unless roadway conditions or heavy traffic volume require additional emphasis to safely control traffic. Additional flaggers may be positioned in advance of traffic queues to alert traffic to reduce speed.
- 4. DO NOT PASS, PASS WITH CARE and construction regulatory speed zone signs may be installed downstream of the ROAD WORK AHEAD signs.
- 5. When the work zone is made up of several work spaces, channelizing devices should be placed laterally across the closed lane to re-emphasize closure. Laterally placed channelizing devices should be repeated every 500 to 1000 feet in urban areas and every 1/4 to 1/2 mile in rural areas.
- 6. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- 7. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.
- 8. 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 speed are 35 mph or slower, and for tangent sections, at 1/2S where S is the speed in mph. This tighter device spacing is intended for the area of conflicting markings not the entire work zone.

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						Ск:
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TCP (FILE: tcp1-3-18.dgn © TxDOT December 1985	DN: CONT	3)	– 1 ск:	B ETC	V	HIGHWAY





LEGEND								
<u>~~~~</u>	Type 3 Barricade		Channelizing Devices					
Ē	Heavy Work Vehicle	K	Truck Mounted Attenuator (TMA)					
(L)	Trailer Mounted Flashing Arrow Board	٩	Portable Changeable Message Sign (PCMS)					
•	Sign	\langle	Traffic Flow					
\bigtriangleup	Flog	LO	Flagger					

Posted Formula Speed		D	Desirable Taper Lengths X X			d Maximum ng of lizing ices	Minimum Sign Spacing "x"	Suggested Longitudinal Buffer Space
*		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"B"
30		150'	1651	180'	30′	60 <i>'</i>	1201	90'
35	$L = \frac{WS^2}{60}$	205'	225'	245'	35′	70′	160′	120'
40	60	265′	295′	320'	40′	80′	240′	155′
45		450'	495′	540'	45′	90′	320′	195'
50		500'	550'	600′	50 <i>'</i>	100′	400′	240'
55	L=WS	550'	605′	660′	55 <i>'</i>	110′	500 <i>'</i>	295 <i>'</i>
60	L - W S	600′	660′	720'	60′	120′	600 <i>'</i>	350 <i>'</i>
65		650'	715′	780′	65′	130'	700′	410'
70		700'	770'	840'	70′	140′	800′	475′
75		750'	825'	900′	75′	150′	900′	540 <i>′</i>

* Conventional Roads Only

CW1-4R

CW1-6aT

36" X 36"

CW1-4L _48" X 48"

CW13-1P

24" X 24"

CW20-5TR

48" X 48'

CW20-1D

48" X 48" (Flags-See note 1)

(See note 2)

(See note 2)

48" X 48"

C₩13-1P 24" X 24" (See note 2)▲

★ 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				
	1	1						

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. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- 5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.

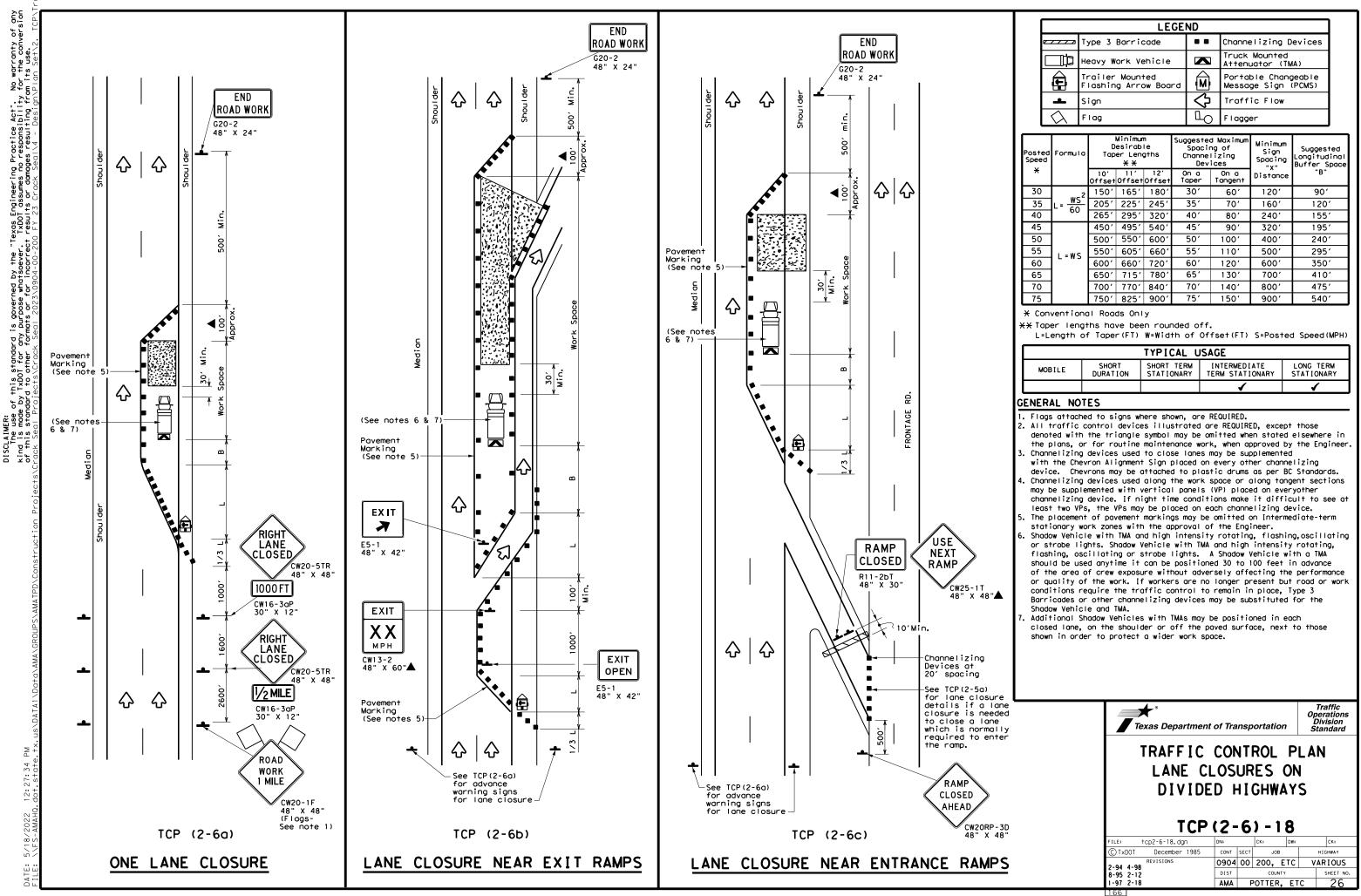
TCP (1-4a)

6. If this TCP is used for a left lane closure , CW20-5TL "LEFT LANE CLOSED" signs shall be used and channelizing devices shall be placed on the centerline where needed to protect the work space from opposing traffic with the arrow panel placed in the closed lane near the end of the merging taper.

TCP (1-4b)

7. 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 1/2S where S is the speed in mph. This tighter device spacing is intended for the areas of conflicting markings, not the entire work zone.

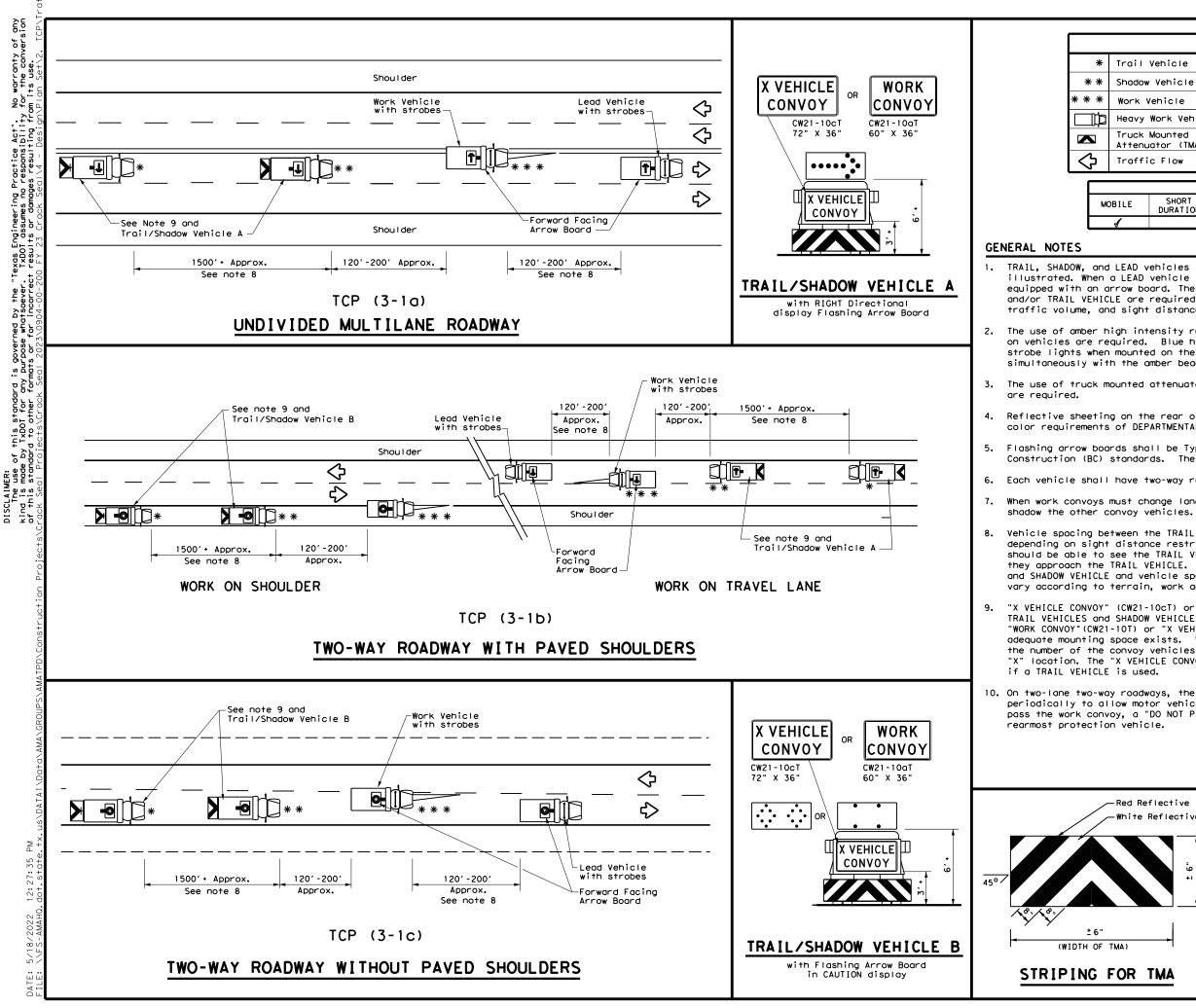
TRAFFIC CONTROL PLAN LANE CLOSURES ON MULTILANE CONVENTIONAL ROADS TCP (1 - 4) - 18 FILE: tcp1-4-18, dgn DM: CK: DM: CK: © TXDOT December 1985 CONT JOB HIGHWAY 2-94 4-98 0904 00 200, ETC VARIOUS 8-95 2-12 DIST CONTY SHEET NO. 1-97 2-18 AMA POTTER, ETC Z5	Texas Department	of Tra	nsp	ortati	on	<i>Ор</i> Г	Traffic perations Division tandard		
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2-94 4-98 REVISIONS 0904 00 200, ETC VARIOUS 8-95 2-12 DIST COUNTY SHEET NO.	FILE: tcp1-4-18,dgn	DN:		СК:	DW:		CK:		
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1-97 2-18 AMA POTTER, ETC 25		DIST		COU	NTY		SHEET NO.		
	1-97 2-18	AMA	F	OTTER	R, ET	C	25		



LEGEND							
	Type 3 Barricade		Channelizing Devices				
µ́p	Heavy Work Vehicle	K	Truck Mounted Attenuator (TMA)				
Ē	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)				
-	Sign	2	Traffic Flow				
\Diamond	Flag	LO	Flagger				

Posted Speed	Formula	D	Minimur esirab er Lena X X	le	Spacin Channe		Minimum Sign Spacing "x"	Suggested Longitudinal Buffer Space
*		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"В"
30	2	150'	1651	180'	30′	60 <i>'</i>	120'	90′
35	$L = \frac{WS^2}{60}$	205'	225′	245'	35′	70′	160'	120'
40	60	265′	295′	320'	40′	80′	240′	155′
45		450'	495′	540'	45 <i>′</i>	90′	320′	195′
50		500'	550'	600'	50 <i>'</i>	100′	400′	240′
55	L=WS	550'	605 <i>'</i>	660'	55 <i>'</i>	110'	500'	295′
60	L - 11 J	600 <i>'</i>	660'	720'	60 <i>'</i>	120'	600 <i>'</i>	350′
65		650 <i>'</i>	715′	780′	65 <i>'</i>	130′	700′	410′
70		700'	770′	840'	70′	140'	800 <i>'</i>	475′
75		750'	825′	900 <i>'</i>	75′	150'	900′	540′

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



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		LE	GEND			
Trail	Vehicle			ARROW BOARD D		
Shadow	Vehicle			ARROW BOARD DI	ISPLAT	
Work \	/ehicle		₽	RIGHT Directio	onal	
Неаvу	Work Vehic	le	-	LEFT Directional		
	Mounted ator (TMA)		÷	Double Arrow		
Traffi	c Flow		0-	CAUTION (Alter Diamond or 4 (•	
TYPICAL USAGE						
ILE	SHORT DURATION			INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY	

TRAIL, SHADOW, and LEAD vehicles shall be equipped with arrow boards as illustrated. When a LEAD vehicle is not used the WORK vehicle must be equipped with an arrow board. The Engineer will determine if the LEAD VEHICLE and/or TRAIL VEHICLE are required based on prevailing roadway conditions, traffic volume, and sight distance restrictions.

2. The use of amber high intensity rotating, flashing, oscillating, or strobe lights on vehicles are required. Blue high intensity rotating, flashing, oscillating or strobe lights when mounted on the driver's side of the vehicle may be operated simultaneously with the amber beacons or strobe lights.

3. The use of truck mounted attenuators (TMA) on the SHADOW VEHICLE and TRAIL VEHICLE

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

Flashing arrow boards shall be Type B or Type C as per the Barricade and Construction (BC) standards. The board shall be controlled from inside the vehicle.

Each vehicle shall have two-way radio communication capability.

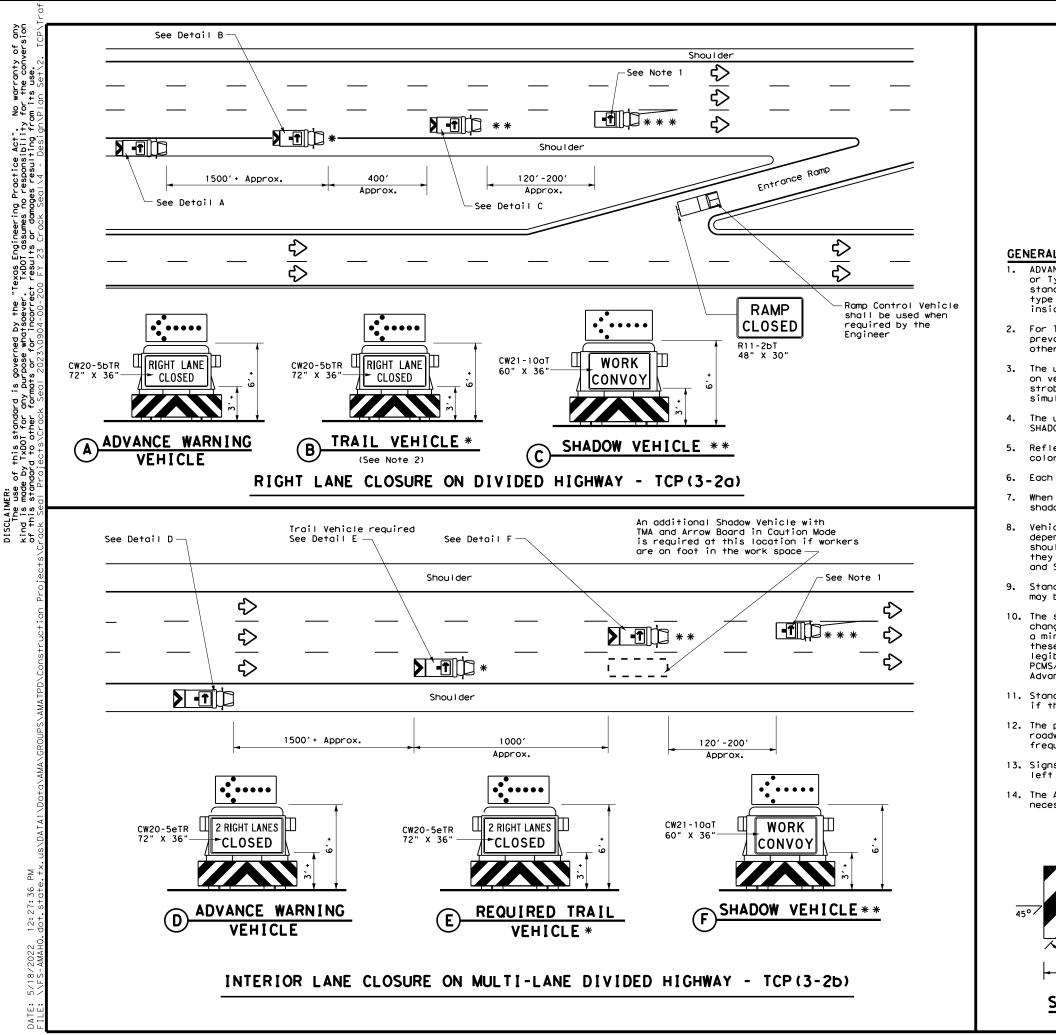
When work convoys must change lanes, the TRAIL VEHICLE should change lanes first to

Vehicle spacing between the TRAIL VEHICLE and the SHADOW VEHICLE will vary depending on sight distance restrictions. Motorists approaching the work convoy should be able to see the TRAIL VEHICLE in time to slow down and/or change lanes as they approach the TRAIL VEHICLE. Vehicle spacing between the WORK VEHICLE and SHADOW VEHICLE and vehicle spacing between WORK VEHICLE and LEAD VEHICLE may vary according to terrain, work activity and other factors.

"X VEHICLE CONVOY" (CW21-10cT) or "WORK CONVOY" (CW21-10aT) signs shall be used on TRAIL VEHICLES and SHADOW VEHICLES as shown. As an option 48" X 48" diamond shaped "WORK CONVOY"(CW21-10T) or "X VEHICLE CONVOY" (CW21-10bT) signs may be used where adequate mounting space exists. When used, the X VEHICLE CONVOY sign shall have the number of the convoy vehicles displayed on the sign in the number designation "X" location. The "X VEHICLE CONVOY" sign shall not be used on the SHADOW VEHICLE

10. On two-lane two-way roadways, the work and protection vehicles should pull over periodically to allow motor vehicle traffic to pass. If motorists are not allowed to pass the work convoy, a "DO NOT PASS" (R4-1) sign should be placed on the back of the

Red Reflective White Reflective	Texas Departmen	t of Transpo	rtation	Oper Div	affic rations rision ndard
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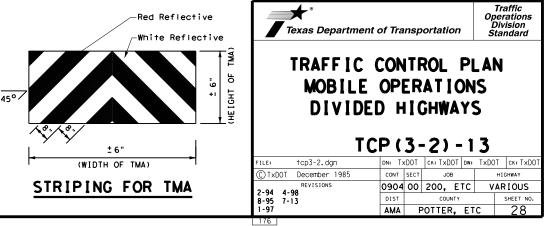
	LEGEND								
	* Trail V	Vehicle		ARROW BOARD DISPLAY					
*	* Shadow	Vehicle							
* *	* Work V	ehicle		RIGHT Directional					
	Heavy	Work Vehic	le	÷	LEFT Direction	al			
		Mounted ator (TMA)		ŧ	Double Arrow				
\checkmark	Traffi	c Flow		Ø	CAUTION (Alter Diamond or 4 (
		TYPICAL USAGE							
Ē	MOBILE	SHORT DURATION	SHORT	TERM		LONG TERM STATIONARY			
	1								

GENERAL NOTES

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.

- SHADOW, and TRAIL vehicles are required.
- color requirements of DMS 8300, Type A.

- Advance Warning Vehicle.
- frequency.
- necessary.



OBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
1				

2. For TCP(3-2a) the Engineer will determine if the TRAIL VEHICLE is required based on prevailing roadway conditions, traffic volume, and sight distance restrictions. All other vehicles shown for both TCP(3-2a) and TCP(3-2b) are required.

The use of amber high intensity rotating, flashing, oscillating, or strobe lights on vehicles are required. Blue high intensity rotating, flashing, oscillating or strobe lights when mounted on the driver's side of the vehicle may be operated simultaneously with the amber beacons or strobe lights.

The use of truck mounted attenuators (TMA) on the ADVANCE WARNING,

Reflective sheeting on the rear of the TMA shall meet or exceed the reflectivity and

Each vehicle shall have two-way radio communication capability.

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

Vehicle spacing between the TRAIL VEHICLE and the SHADOW VEHICLE will vary depending on sight distance restrictions. Motorists approaching the work convoy should be able to see the TRAIL VEHICLE in time to slow down and/or change lanes as they approach the TRAIL VEHICLE. Vehicle spacing between the WORK VEHICLE and SHADOW VEHICLE may vary according to terrain, work activity and other factors.

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

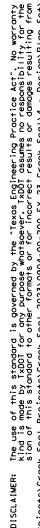
10. The signs shown should be used on the Advance Warning Vehicle. As an option, a portable changeable message sign (PCMS) or a truck mounted changeable message sign (TMCMS) with a minimum character height of 12", and displaying the same legend may be substituted for these signs. An appropriate directional arrow display, simulating the size and legibility of the flashing arrow board, must be used in the second phase of the PCMS/TMCMS message. When this is done, the arrow board will not be required on the

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

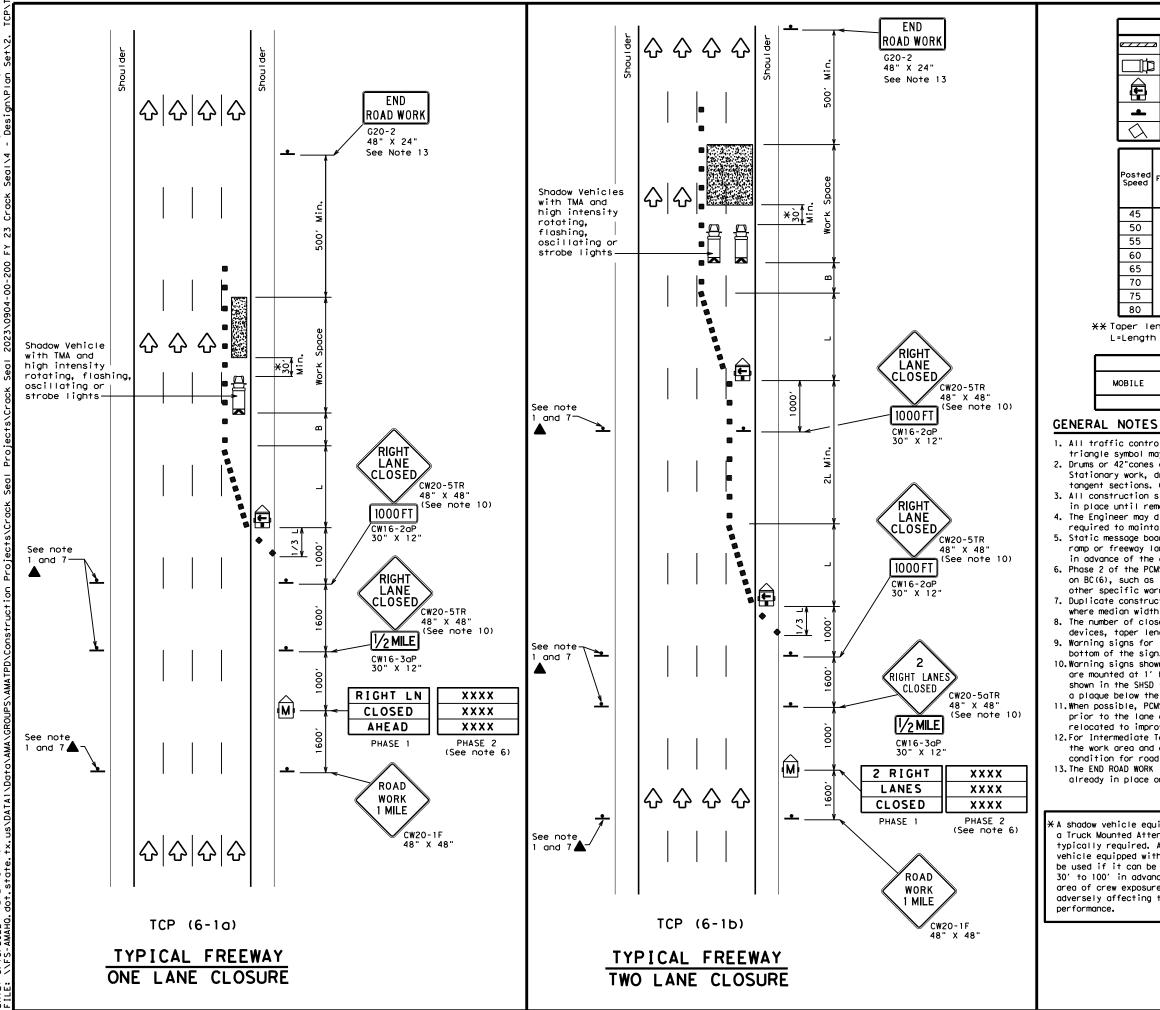
12. The principles on this sheet may be used to close lanes from the left side of the roadway considering the number of lanes, shoulder width, sight distance, and ramp

13. Signs and flashing arrow board modes shall be appropriately altered when implementing left lane closures or interior closures which close the left lanes.

14. The Advance Warning Vehicle may straddle the edgeline when shoulder width makes it







LEGEND										
	z Туре 3	Type 3 Barricade				Ch	annelizi	ing Devices		
] Неалу	Heavy Work Vehicle				Truck Mounted Attenuator (TMA)				
F		Trailer Mounted Flashing Arrow Board			M			Changeable ign (PCMS)		
-	Sign	sign 🗘		\Diamond	Traffic Flow					
\Diamond	Flag	Flag			LO	۴ı	lagger			
Posted Speed	Formula	D Taper	Minimur esirab Lengtl X X	le hs "L"	Špa Chan D	icin inel ievi	d Maximum ng of izing ices	Suggested Longitudinal Buffer Space		
		10' Offset	11' Offset	12' Offse	On a t Taper		On a Tangent	"B"		
45		450′	495′	540'	451		90 <i>'</i>	1951		
50		500'	550'	600'	50'		100'	240'		
55	L=WS	550'	605 <i>'</i>	660	55'		110'	295′		
60	L-W3	600'	660 <i>'</i>	720'	60'	·	120'	350'		

80 800' 880' 960' 80' 160' 615' XX Taper lengths have been rounded off.

650' 715' 780

700' 770' 840'

750' 825' 900'

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

65*'*

70'

75′

130'

140'

150'

410'

475'

540'

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

65

70

75

1. All traffic control devices illustrated are REQUIRED. Devices denoted with the triangle symbol may be omitted when stated elsewhere in the plans.

2. Drums or 42" cones are the typical channelizing devices. For Intermediate Term Stationary work, drums shall be used on tapers with drums or 42" cones used on tangent sections. Other channelizing devices may be used as directed by the Engineer. 3. All construction signs and barricades placed during any phase of work shall remain in place until removal is approved by the Engineer.

4. The Engineer may direct the Contractor to furnish additional signs and barricades as required to maintain traffic flow, detours and motorist safety during construction. 5. Static message boards or changeable message signs stating the date and duration of ramp or freeway lane closures shall be placed a minimum of seven (7) calendar days in advance of the actual closure.

6. Phase 2 of the PCMS message should include appropriate information formatted as shown on BC(6), such as "MERGE LEFT," recommended advisory speed, delay information, or other specific warnings.

7. Duplicate construction warning signs should be erected on the medians side of freeways where median width will permit and traffic volume justifies the signing. 8. The number of closed lanes may be increased provided the spacing of traffic control devices, taper lengths and tangent lengths meet the requirements of the TMUTCD. 9. Warning signs for intermediate term stationary work should be mounted at 7' to the bottom of the sign.

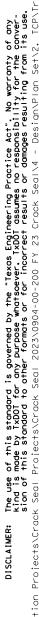
10.Warning signs shown shall be appropriately altered for left lane closures. When signs are mounted at 1' height for short term stationary or short duration work, sign versions shown in the SHSD for Texas with distances on the sign face rather than mounted on a plaque below the sign may be used.

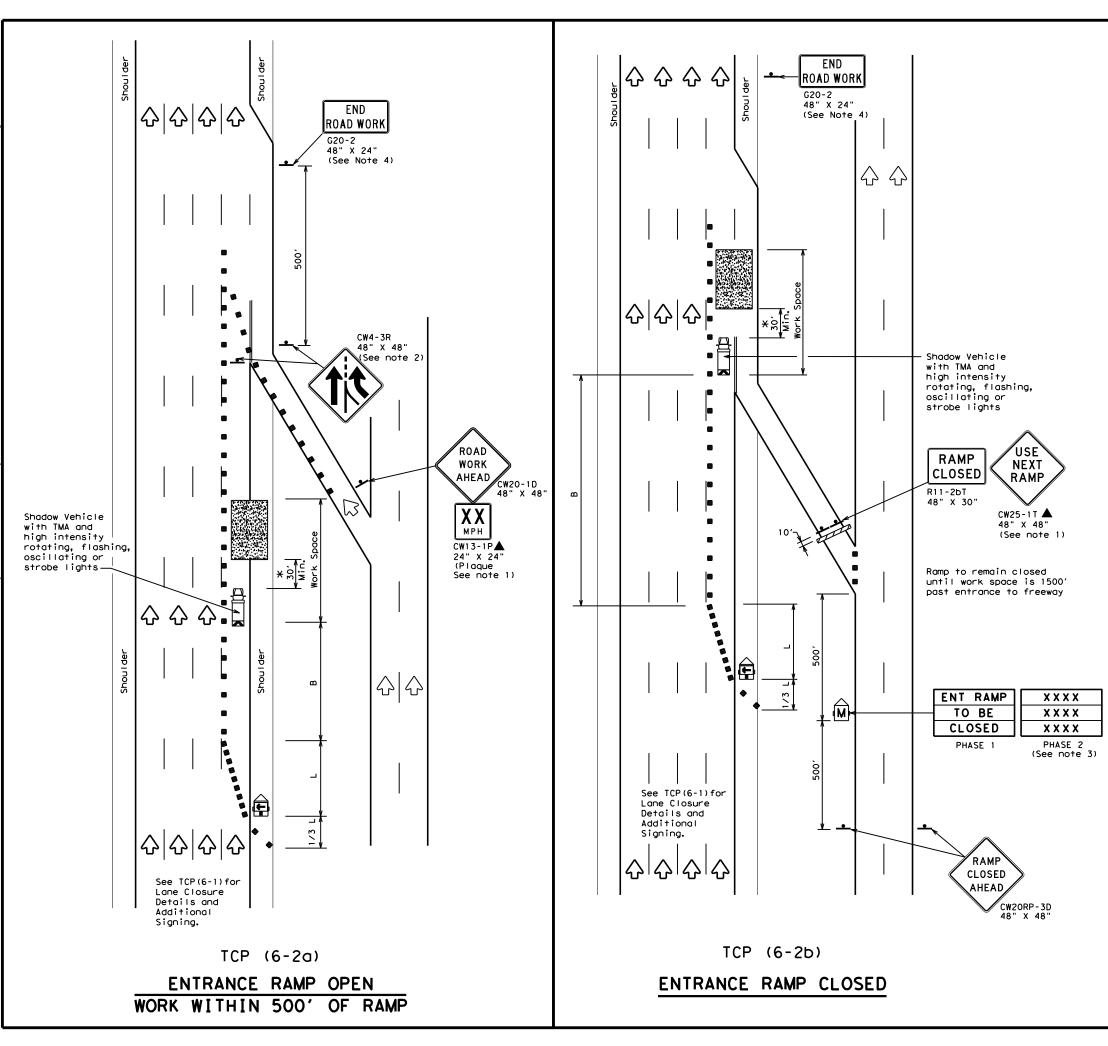
11. When possible, PCMS units should be located in advance of the last available exit ramp prior to the lane closure to allow motorists an alternate route. They may also be relocated to improve advance warning in case of unanticipated queuing or congestion. 12.For Intermediate Term Stationary work at night, floodlights should be used to illuminate the work area and equipment crossings. Floodlights shall not produce a disabling glare condition for road users or workers.

13. The END ROAD WORK (G20-2) sign may be omitted when it conflicts with G20-2 signs already in place on the project.

ticle equipped with ted Attenuator is equired. A shadow pped with a TMA shall t can be positioned in advance of the r exposure without fecting the work	Texas Department of Transportation Traffic Operations Division Standard TRAFFIC CONTROL PLAN FREEWAY LANE CLOSURES TCP (6-1)-12							
		TC	Р(6-	•1)•	- 1	2	
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	LEGEND								
<u>~~~~</u>	Type 3 Barricade		Channelizing Devices						
□¤	Heavy Work Vehicle	K	Truck Mounted Attenuator (TMA)						
Ð	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)						
-	Sign	2	Traffic Flow						
\Diamond	Flag	٩	Flagger						

Posted Speed	Formula	D	Minimur esirab Lengtl X X	le	Suggested Maximum Spacing of Channelizing Devices		Suggested Longitudinal Buffer Space
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	"B"
45		450′	495′	540'	45′	90′	1951
50		500'	550′	600'	50 <i>'</i>	100'	240'
55	L=WS	550'	605 <i>'</i>	660 <i>'</i>	55 <i>'</i>	110'	295′
60	L-#3	600 <i>'</i>	660 <i>'</i>	720′	60 <i>'</i>	120'	350'
65		650′	715′	780′	65 <i>1</i>	130′	410′
70		700′	770'	840 <i>′</i>	70′	140'	475′
75		750'	825 <i>'</i>	900ʻ	75′	150'	540'
80		800'	880′	960'	80'	160'	615'

XX 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					
	 ✓ 	 ✓ 	1						

GENERAL NOTES

 All traffic control devices illustrated are REQUIRED. Devices denoted with the triangle symbol may be omitted when stated elsewhere in the plans.

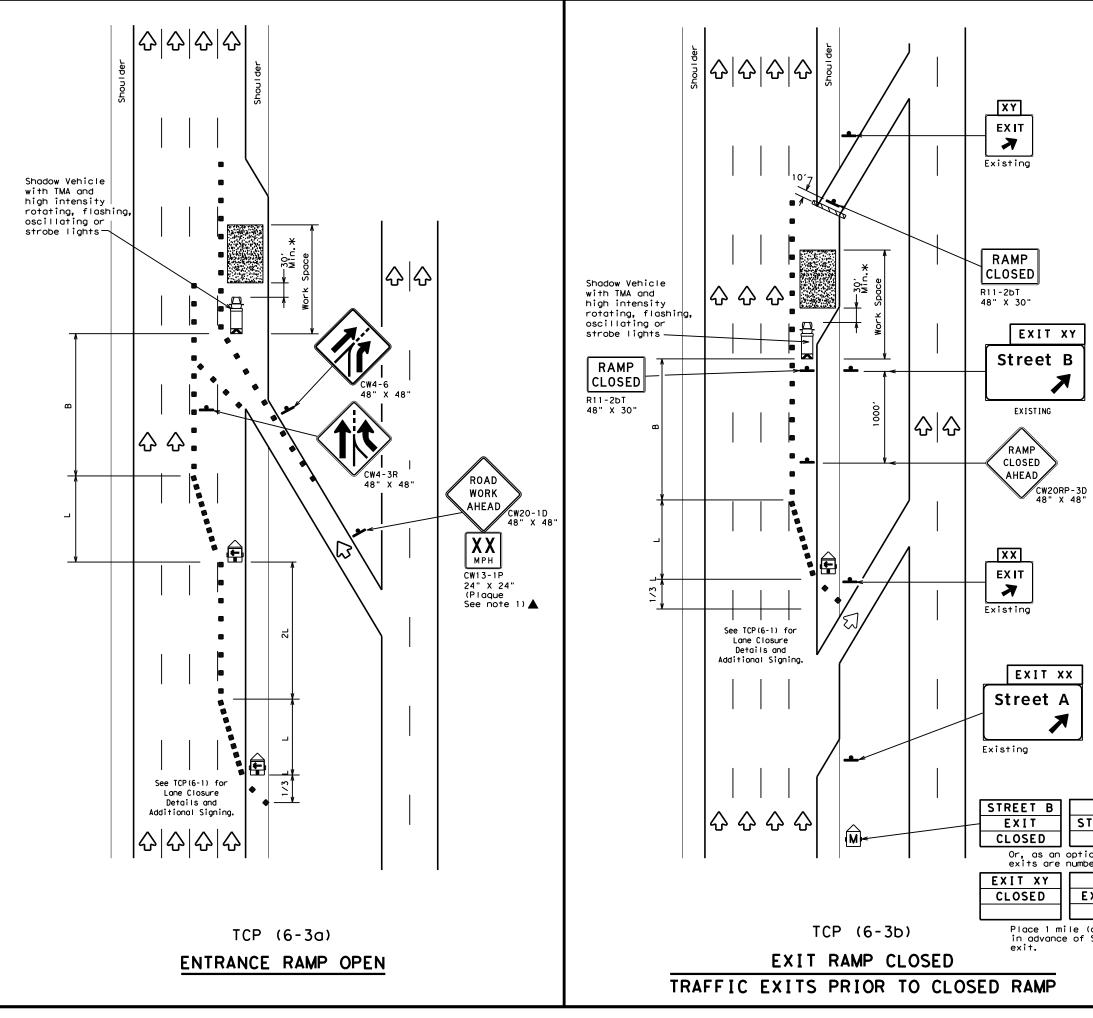
- ADDED LANE Symbol (CW4-3) sign may be omitted when sign between ramp and mainlane can be seen from both roadways.
 See "Advance Notice List" on BC(6) for recommended date
- See "Advance Notice List" on BC(6) for recommended date and time formatting options for PCMS Phase 2 message.
 The END ROAD WORK (G20-2) sign may be omitted when it
- conflicts with G20-2 signs already in place on the project.

*A shadow vehicle equipped with a Truck Mounted Attenuator is typically required. A shadow vehicle equipped with a TMA shall be used if it can be positioned 30' to 100' in advance of the area of crew exposure without adversely affecting the work performance.

Additional requirements for lane closures and advance signing shall be as shown on TCP (6-1) or as directed by the Engineer.

Texas Dep Traffic Oper	cartma ations I	ent (Divisi	of Trans ion Standard	portation
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	LEGEND								
<u>~ ~ ~ ~ ~</u>	Type 3 Barricade		Channelizing Devices						
	Heavy Work Vehicle	K	Truck Mounted Attenuator (TMA)						
Ð	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)						
+	Sign	\diamondsuit	Traffic Flow						
$\langle \rangle$	Flag	٩	Flagger						

Posted Speed	Formula	D	Minimur esirab Lengtl X X	le	Suggested Maximum Spacing of Channelizing Devices		Suggested Longitudinal Buffer Space
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	"В"
45		450′	495′	540'	45′	90′	195'
50		500'	550'	600′	50 <i>'</i>	100′	240′
55	L=WS	550'	605′	660'	55 <i>'</i>	110'	295′
60	L-#5	600 <i>'</i>	660 <i>′</i>	720'	60 <i>'</i>	120′	350′
65		650'	715′	780′	65 <i>'</i>	130'	410′
70		700'	770'	840'	70′	140′	475′
75		750'	825′	900′	75′	150′	540 <i>′</i>
80		800'	880'	960'	80 <i>'</i>	160′	615′

XX 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		
	1	1	4			

GENERAL NOTES:

 All traffic control devices illustrated are REQUIRED. Devices denoted with the triangle symbol may be omitted when stated elsewhere in the plans.

*A shadow vehicle equipped with a Truck Mounted Attenuator is typically required. A shadow vehicle equipped with a TMA shall be used if it can be positioned 30' to 100' in advance of the area of crew exposure without adversely affecting the work performance.

Additional requirements for lane closures and advance signing shall be as shown on TCP (6-1) or as directed by the Engineer.

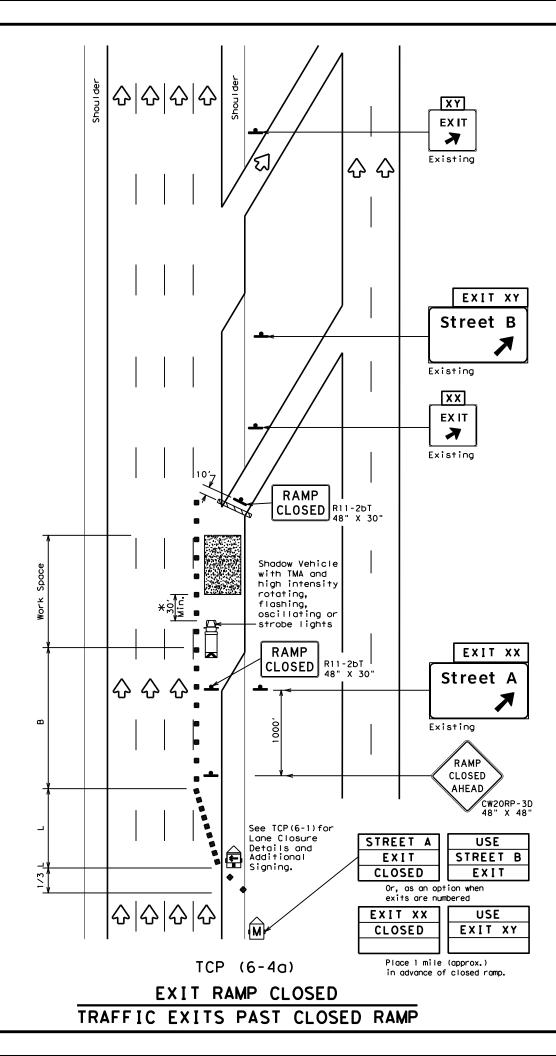
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	WORK AREA	BEI	OND F	{AM	
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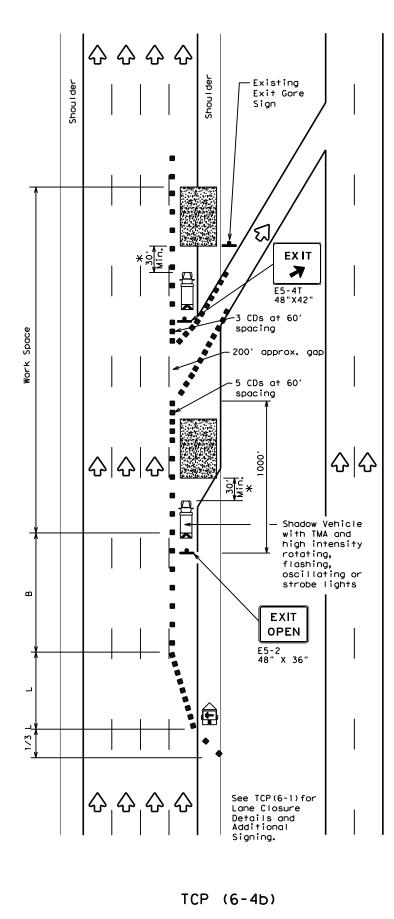
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EXIT RAMP OPEN

				I F (GEND)			
	z Type 1	3 Barr	icade			Cr	nannelizi CDs)	ing Devices	
) Heavy	Heavy Work Vehicle					Truck Mounted Attenuator (TMA)		
Ē		er Mou ing Ar		bard	M			Changeable ign (PCMS)	
-	Sign				\Diamond	Т	raffic F	low	
$\langle \rangle$	Flag	Flag				F	lagger		
Posted Speed	Formula	D Taper 10'	Minimur esirab Lengtl XX 11' Offset	le ns "L' 12'	Cr Or	spacti nanne	d Maximum ng of lizing ices On a Tangent	Suggested Longitudinal Buffer Space "B"	
45		450'	495′			15'	90'	195'	
50		500'	550′	600	<u>'</u> ا	50 <i>1</i>	100'	240′	
55	L=WS	550'	605 <i>'</i>	660	' 5	5 <i>'</i>	110'	295′	
60		600'	660'	720	' 6	50'	120'	350′	
65		650 <i>'</i>	715′	780	<u>'</u>	65 <i>1</i>	130'	410'	
70		700′	770'	840	_	'0 <i>'</i>	140'	475′	
75		750′	825′	900	1	'5 <i>'</i>	150'	540′	
80		800′	880'	960	<u>'</u>	30 <i>'</i>	160'	615'	

XX 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			
	1	1	4				

GENERAL NOTES

1. All traffic control devices illustrated are REQUIRED. Devices denoted with the triangle symbol may be omitted when stated elsewhere in the plans.

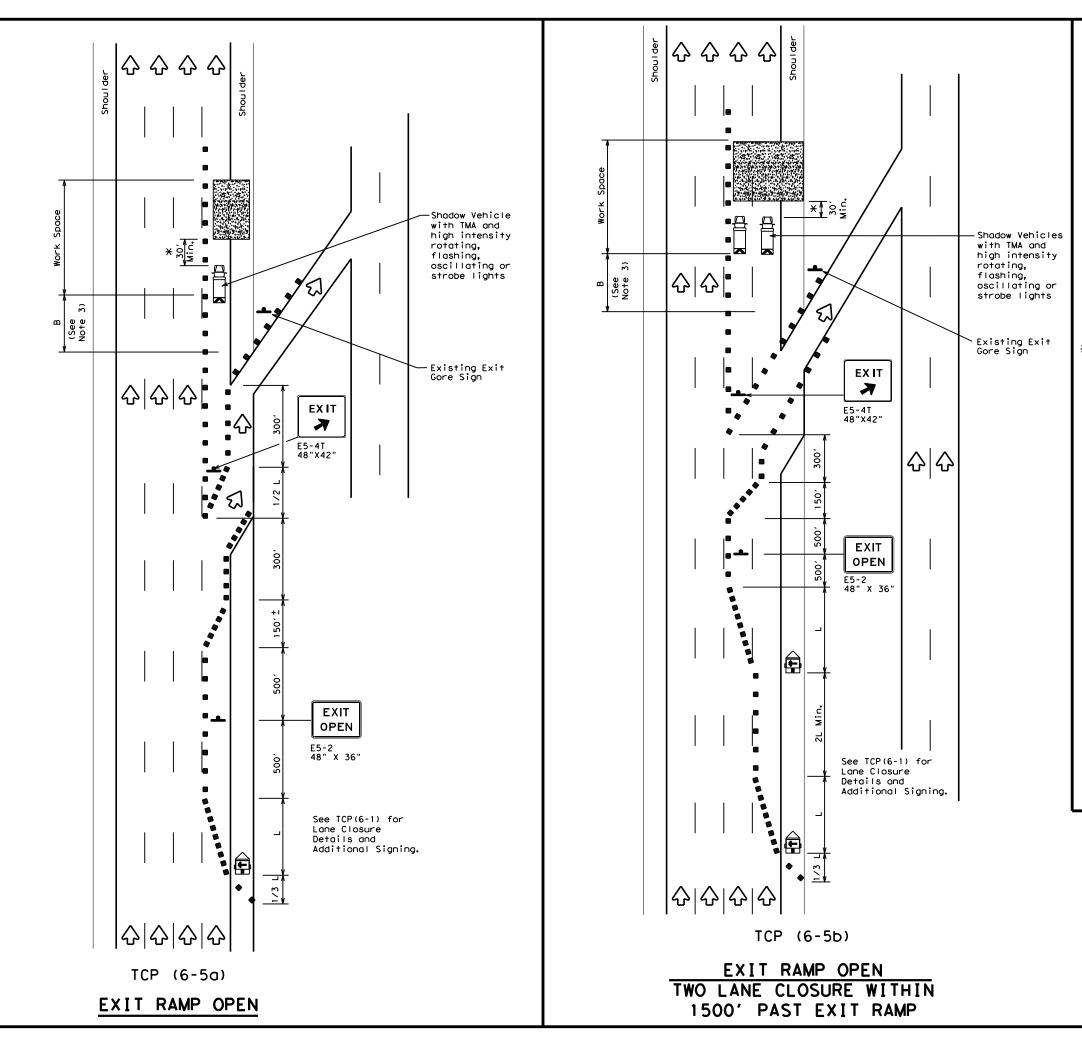
 \bigstar A shadow vehicle equipped with a Truck Mounted Attenuator is typically required. A shadow vehicle equipped with a TMA shall be used if it can be positioned 30' to 100' in advance of the area of crew exposure without adversely affecting the work performance.

Additional requirements for lane closures and advance signing shall be as shown on TCP (6-1) or as directed by the Engineer.

Traffic Open				-	oorta	tion
TRAFFIC WORK AREA		•		-	_	•
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^{2.} See BC Standards for sign details.





	LEGEND							
<u>~~~~</u>	Type 3 Barricade		Channelizing Devices					
	Heavy Work Vehicle	K	Truck Mounted Attenuator (TMA)					
Ð	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)					
+	Sign	2	Traffic Flow					
$\langle \lambda \rangle$	Flag	۵ ₀	Flagger					

Posted Speed	Formula	D	Minimur esirab Lengtl XX	le	Suggested Maximum Spacing of Channelizing Devices		Suggested Longitudinal Buffer Space	
		10' Offset	11' Offset	11' 12' On a Or		On a Tangent	"В"	
45		450′	495′	540'	45′	90′	1951	
50		500'	550'	600'	50 <i>'</i>	100'	240'	
55	L=WS	550'	605 <i>'</i>	660 <i>'</i>	55 <i>'</i>	110'	295 <i>'</i>	
60	L-#J	600 <i>'</i>	660 <i>'</i>	720'	60′	120'	350'	
65		650′	715′	780′	65′	130'	410'	
70		700′	770'	D' 840' 70		140'	475′	
75		750'	825 <i>'</i>	900'	75′	150'	540'	
80		800'	880′	960'	80'	160'	615'	

XX 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			
	1	1	4				

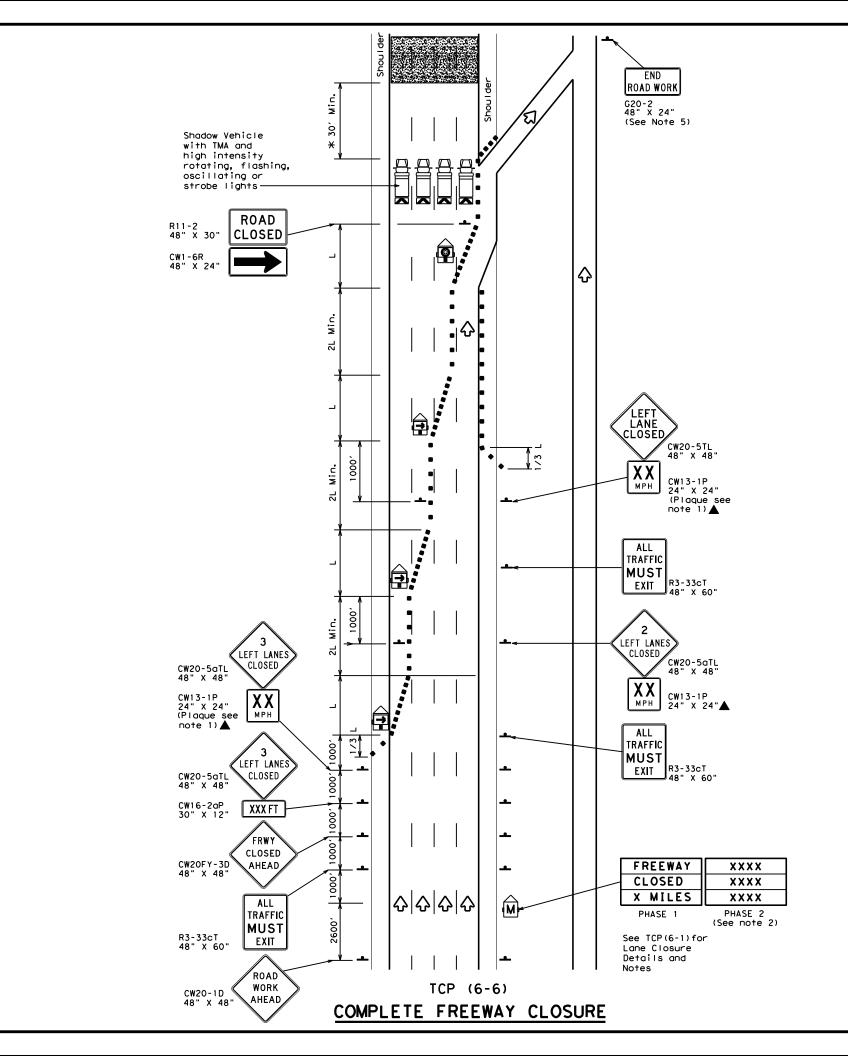
GENERAL NOTES

- All traffic control devices illustrated are REQUIRED. Devices denoted with the triangle symbol may be omitted when stated elsewhere in the plans.
- 2. See BC standards for sign details.
- If adequate longitudinal buffer length "B" does not exist between the work space and the exit ramp, consideration should be given to closing the ramp.

*A shadow vehicle equipped with a Truck Mounted Attenuator is typically required. A shadow vehicle equipped with a TMA shall be used if it can be positioned 30' to 100' in advance of the area of crew exposure without adversely affecting the work performance.

Additional requirements for lane closures and advance signing shall be as shown on TCP (6-1) or as directed by the Engineer.

Texas Dep Traffic Oper					porta	tion
TRAFFIC		•				•
WORK AREA E	SE Y ()NI	DEX		1 1	(AMP
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LEGEND									
	Z T	Type 3 Barricade							
] н	eavy	Vehic	е			Truck Mounted Attenuator (TMA)		
		Trailer Mounted Flashing Arrow Board				M	Portable Changeable Message Sign (PCMS)		
			ing Ar ution		bard	\diamondsuit	т	raffic F	low
4	s	ign							
Posted Speed	For	mula	D Taper 10'	Minimur esirab Lengtl XX 11' Offset	le ns "L" 12'	Devices On a On a			Suggested Longitudinal Buffer Space "B"
45			450 <i>'</i>	495 <i>′</i>	540'	45′		90'	195'
50			500'	550′	600′	50'		100'	240'
55		ws	550'	605 <i>'</i>	660'	55′		110'	295′
60		","	600'	660 <i>'</i>	720'	60'	<u> </u>	120'	350'
65			650′	715′	780'	65'		130'	410′
70			700′	770'	840′	70'	'	140'	475′
75			750'	825′	900′	75′		150'	540′
80			800'	880′	960′	80′	'	160'	615'

XX 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			
	1	 ✓ 	4				

GENERAL NOTES

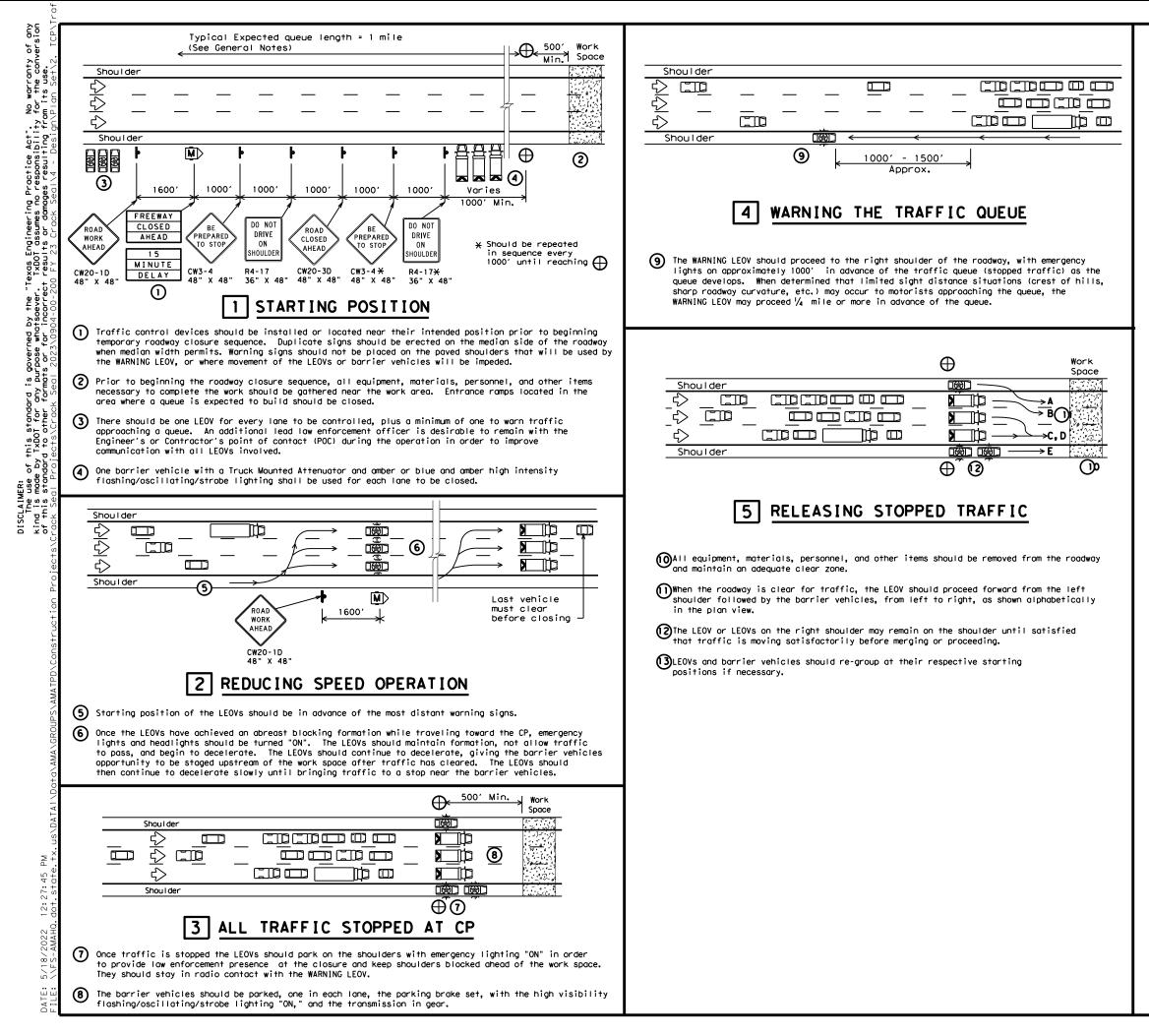
 All traffic control devices illustrated are REQUIRED. Devices denoted with the triangle symbol may be omitted when stated elsewhere in the plans.

- Phase 2 of the PCMS message should include appropriate information formatted as shown on BC(6), such as "MERGE RIGHT," recommended speed, delay, exit information, or other specific warnings.
- 3. Where queuing is anticipated beyond signing shown, additional PCMS signs, other warning signs, devices or Law Enforcement Officers should be available to warn approaching high speed traffic of the end of the queue, as directed by the Engineer.
- 4. Entrance ramps located from the advance warning area to the exit ramp should be closed whenever possible.
- The END ROAD WORK (G20-2) sign may be omitted when it conflicts with G20-2 signs already in place on the project.

*A shadow vehicle equipped with a Truck Mounted Attenuator is typically required. A shadow vehicle equipped with a TMA shall be used if it can be positioned 30' to 100' in advance of the area of crew exposure without adversely affecting the work performance.

Additional requirements for lane closures and advance signing shall be as shown on TCP (6-1) or as directed by the Engineer.

Texas Department of Transportation Traffic Operations Division Standard							
TRAFFIC CONTROL PLAN FREEWAY CLOSURE TCP (6-6)-12							
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©TxDOT February 1994	CONT	SECT	JOB		ŀ	HIGHWAY	
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	LEGE	ND	
	Channelizing Devices	\oplus	Control Position (CP)
M	Portable Changeable Message Sign (PCMS)		Barrier Vehicle with Truck Mounted Attenuator
	Law Enforcement Officer's Vehicle(LEOV)	∿	Traffic Flow

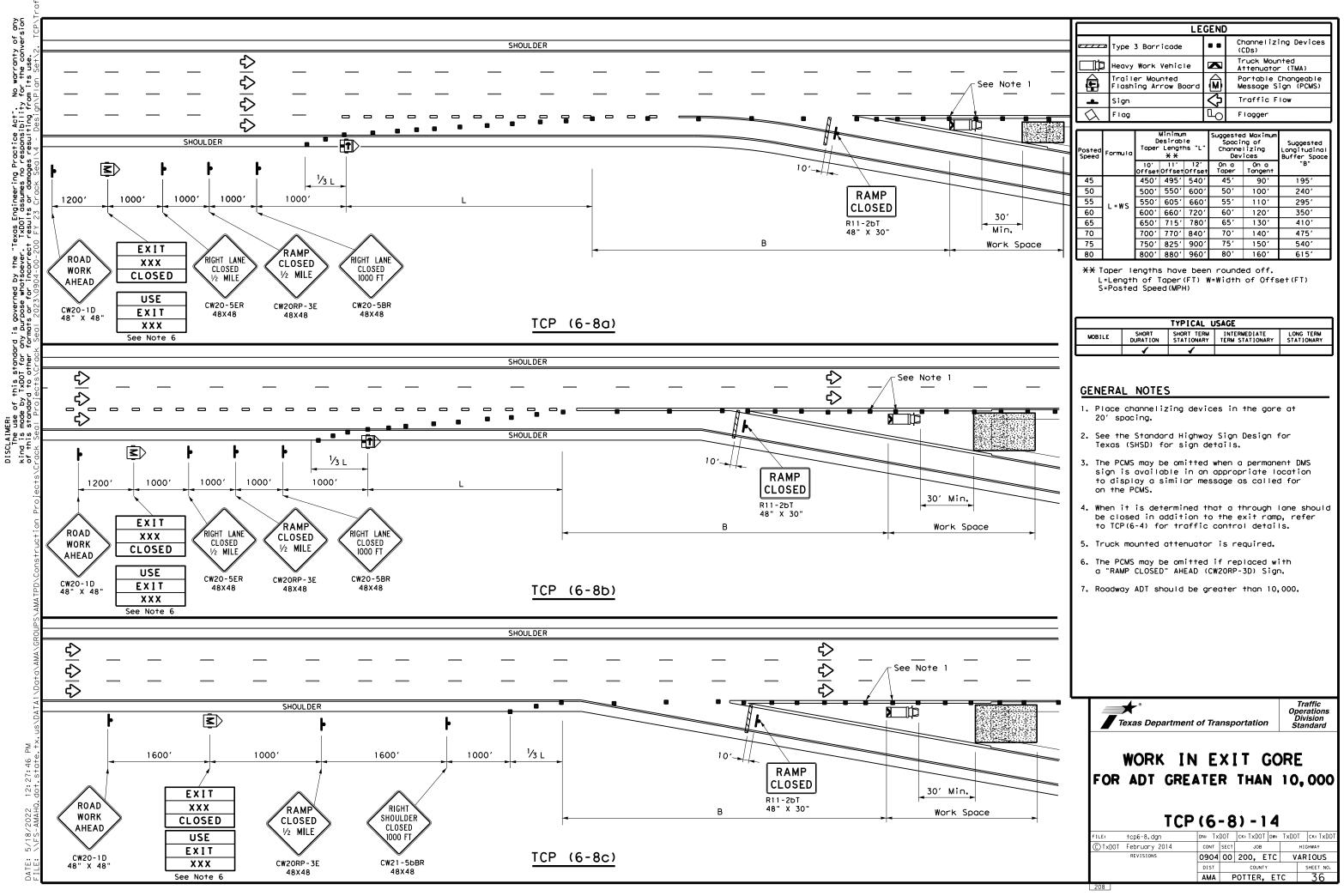
		TYPICAL U	JSAGE	
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	1			

GENERAL NOTES

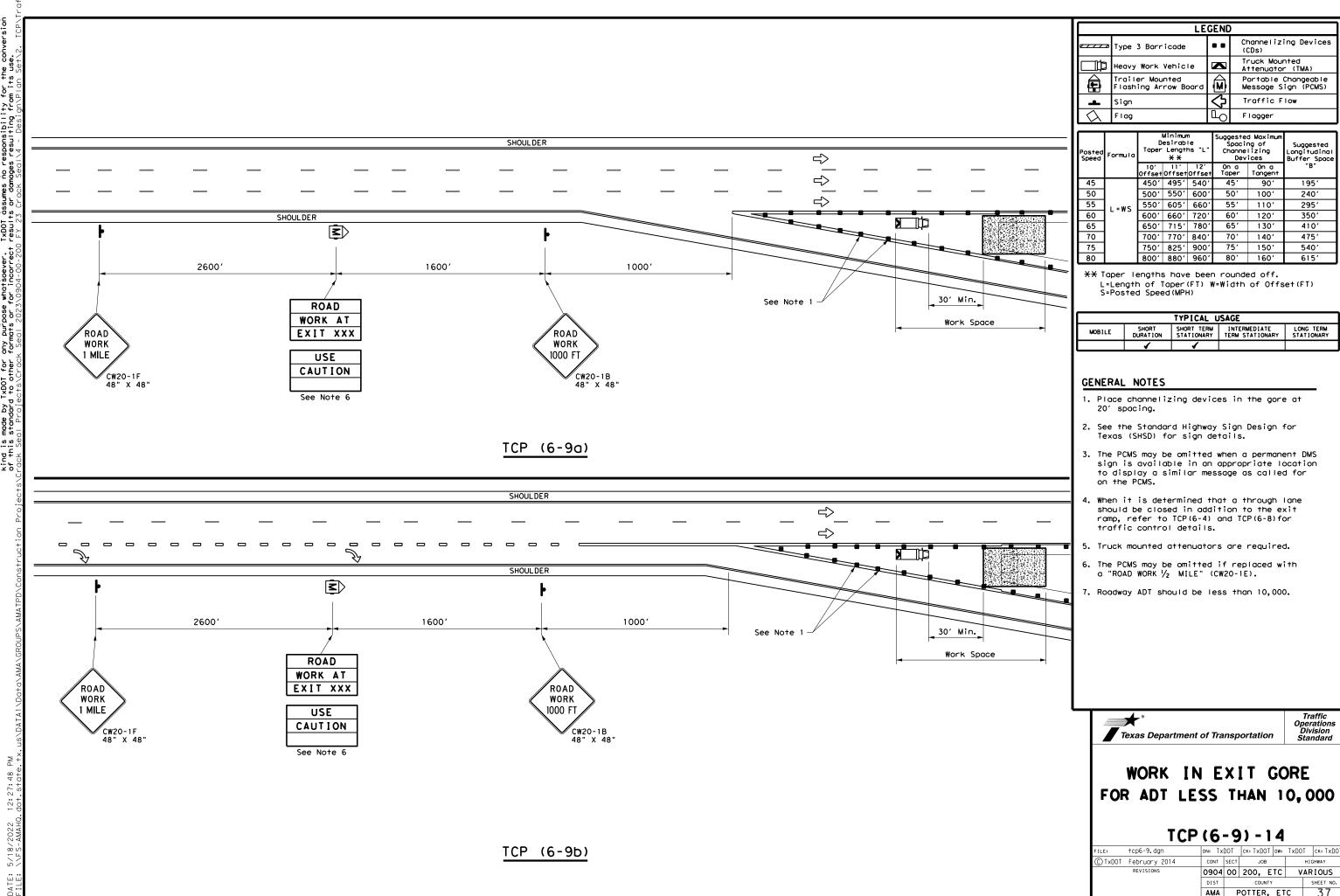
- 1. All traffic control devices shall conform with the latest edition of the Texas Manual on Uniform Traffic Control Devices (TMUTCD). Additional guidelines for traffic control devices may be found in the TMUTCD. Signs conflicting with the roadway closure sequence should be completely removed or covered. Additional traffic control devices may be required for closure of access roads, cross streets, exit and entrance ramps as directed by the Engineer.
- 2. Law enforcement officers and all workers involved should review and understand all procedures before the roadway closure sequence begins. Pre-work meetings may be held for this purpose. Local emergency services and media should have advance notification of roadway closure, expected dates and approximate times of closures.
- 3.Law enforcement officers shall be in uniform and have jurisdiction in the locale of the work area. An additional WARNING Law Enforcement Officer's Vehicle (LEOV) may be used on the median side of the roadway where median shoulder width permits (See sequence #9).
- 4. The roadway closure should be during off-peak hours, as shown in the plans, or as directed by the Engineer.
- 5. Work should be limited to approximately 15 minutes maximum duration unless otherwise directed by the Engineer based on existing roadway conditions. If the work is not complete within 15 minutes, or if the end of the traffic queue extends past the most distant advance warning signs, the work area should be cleared of all equipment, materials, personnel, and other items, and the roadway reopened. When the queue has dissipated and the traffic flow appears normal the roadway closure sequence may be repeated.
- 6.For traffic volumes greater than 1000 Passenger Cars Per Hour Per Lane (PCPHPL), or for roadway closures that exceed 15 minutes, see details elsewhere in the plan.
- 7. If traffic queues beyond the advance warning signs during one road closure sequence, the advance warning should be extended prior to repeating the road closure sequence. When possible, PCMS signs should be located in advance of the last available exit prior to the closure to allow motorists the choice of an alternate route.

THIS	PLAN IS	INTENDED	TO BE	USED	AT LOO	ATIONS/TIMES
WHEN	TRAFFIC	VOLUMES A	RE LE	SS TH	AN 1000	PASSENGER
CARS	PER HOUP	R PER LANE				

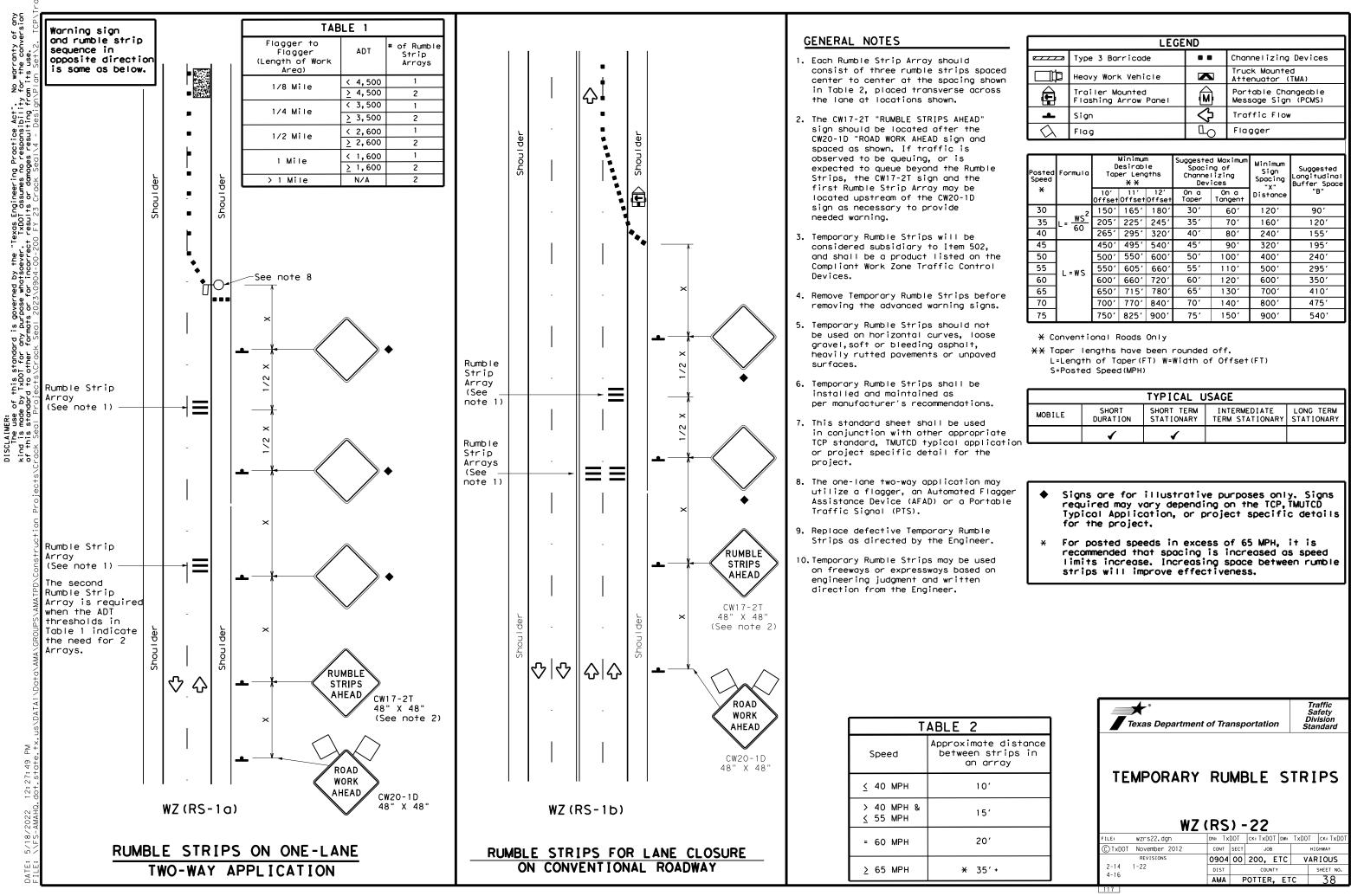
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	l	0	• 1	1	- 1	2	
© TxDOT February 1998 com	T:	xDOT	ск: Т	rxD0	T Dw:	TxDC)T CK: TxDOT
	NT	SECT		JOB			HIGHWAY
REVISIONS 09	04	00	200), E	ЕТС	V	ARIOUS
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warranty of any the conversion its use. S P E Practice Act". N o responsibility f ges resulting from ۶Ę "Texas Engineerin . TxDOT assumes ect results or dam DISCLAIMER: The use of this standard is governed by the "Te kind is made by TxDDT for any purpose whatsoever. of this standard to other formats or for incorrect of this standard to other formats or for incorrect

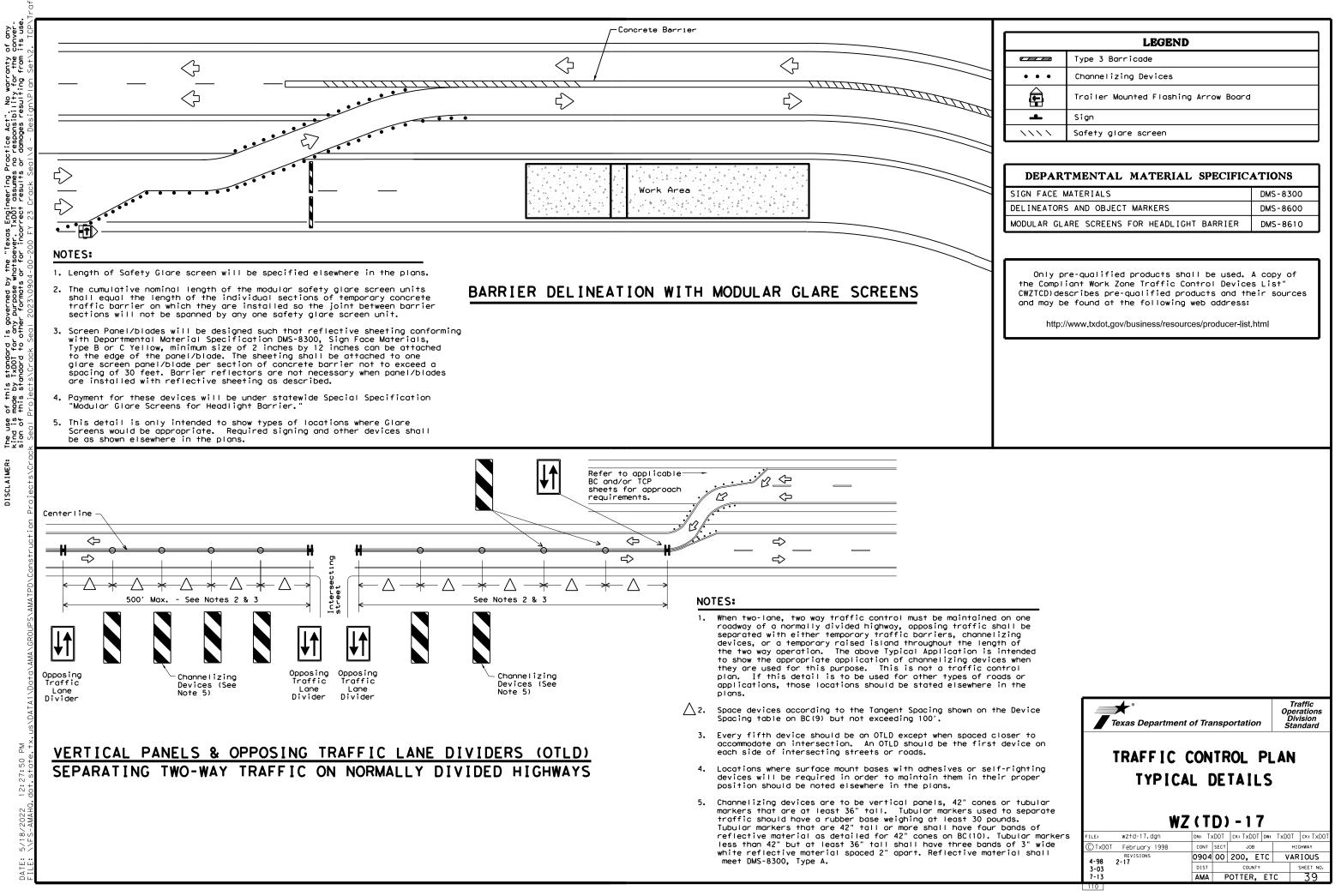


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	LEGEND							
	Type 3 Barricade		Channelizing Devices					
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)					
Ð	Trailer Mounted Flashing Arrow Panel		Portable Changeable Message Sign (PCMS)					
4	Sign	\Diamond	Traffic Flow					
\bigtriangleup	Flag	LO	Flagger					

Posted Formula Speed		Desirable Taper Lengths X X		Spacing of Channelizing Devices		Minimum Sign Spacing "X"	Suggested Longitudinal Buffer Space	
*		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"B"
30	ws ²	150'	1651	180'	30′	60′	120'	90'
35	$L = \frac{WS}{60}$	205'	225'	245'	35′	70′	1601	120′
40	60	265'	295′	320'	40′	80 <i>'</i>	240'	155′
45		450 <i>'</i>	495′	540'	45′	90 <i>'</i>	320'	195'
50		500'	550'	600′	50 <i>'</i>	100'	400'	240'
55	L=WS	550'	605′	660 <i>'</i>	55 <i>'</i>	110′	500 <i>ʻ</i>	295′
60	L - 11 S	600'	660'	720'	60 <i>'</i>	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′

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



of any conver its use is governed by the "Texas Engineering Practice Act". No warranty only purpose whatseever. TXDD1 assumes no responsibility for the other formats or for incorrect results or damages resulting fram standard i TxDOT for andard to o s 5 S S of th mode | this | The use kind is sion of

	LEGEND								
Type 3 Barricade									
• • Channelizing Devices									
Trailer Mounted Flashing Arrow Board									
_	Sign								
~ ~ ~ ~ ~ ~	Safety glare screen								
	TMENTAL MATERIAL SPECIFIC								
SIGN FACE I		DMS-830							
DELINEATORS AND OBJECT MARKERS DMS-8600 MODULAR GLARE SCREENS FOR HEADLIGHT BARRIER DMS-8610									
the Compl CWZTCD)de	re-qualified products shall be used. iant Work Zone Traffic Control Device scribes pre-qualified products and th e found at the following web address:	es List" neir sourc							
	//www.txdot.gov/business/resources/producer-list								

DESCRIPTION TYPE LOCATION LENGTH (LMI) INTERSECTION F SH 70 0.02	ADDITIONAL AREA SUMMARY - REF 33 - 0169-07 - US 60				
INTERSECTION F SH 70 0.02	DESCRIPTION	TYPE		LOCATION	LENGTH (LMI)
	INTERSECTION	F	SH 70		0.021
TOTAL: 0.02				TOTAL:	0.021

ADDITIONAL AREA SUMMARY - REF 34 - 0169-06 - US 60				
DESCRIPTION	TYPE		LOCATION	LENGTH (LMI)
INTERSECTION	F	SH 70		0.023
			TOTAL:	0.023

ADDITIONAL AREA SUMMARY - REF 35 - 2722-02 - FM 2386						
DESCRIPTION	TYPE	LOCATION	LENGTH (LMI)			
INTERSECTION	F	SH 152	0.006			
INTERSECTION	F	US 60	0.008			
		ΤΟΤΑΙ				

ADDITIONAL AREA SUMMARY - REF 36 - 0169-05 - US 60					
DESCRIPTION	TYPE	LOCATION	LENGTH (LMI)		
CROSSOVER	А	CR S	0.169		
ADD'L AREA "D"	EXH	EASTBOUND REST AREA	0.764		
ADD'L AREA "E"	EXH	WESTBOUD REST AREA	0.586		
CROSSOVER	А	SOUTH CR T	0.160		
CROSSOVER	А	NORTH CR T	0.137		
CROSSOVER	А	CR U	0.163		
CROSSOVER	А	CR V	0.139		
CROSSOVER	А	CR W	0.156		
		TOTAL:	2,274		

ADDITION	AL AREA S	SUMMARY - REF	12 - 0557-03 - B	S 152B
DESCRIPTION	TYPE	LC	CATION	LENGTH (LMI)
INTERSECTION	L	SH 207		0.090
			TOTAL:	0,090

ADDITIONAL AREA SUMMARY - REF 13 - 0557-07 - FM 2171				
DESCRIPTION	TYPE	LOCAT	ION	LENGTH (LMI)
INTERSECTION	F	SH 152		0.074
			TOTAL:	0.074

ADDITIONAL AREA SUMMARY - REF 14 - 0790-05 - FM 278					
DESCRIPTION	TYPE		LOCATION	LENGTH (LMI)	
INTERSECTION	K	SH 15		0.067	
INTERSECTION	К	SH 207		0.429	
			TOTAL:	0, 496	

ADDITIO	NAL AREA	SUMMARY - R	EF 19 - 0030-05 -	US 83
DESCRIPTION	TYPE	L	OCATION	LENGTH (LMI)
INTERSECTION	F	US 60		0.160
			TOTAL:	0,160

ADDITIONAL AREA SUMMARY - REF 20 - 0798-04 - FM 277					
DESCRIPTION	TYPE	LOCATION	LENGTH (LMI)		
INTERSECTION	F	US 83	0.016		
INTERSECTION	F	RM 2654	0.062		
		TO.	TAL: 0.078		

ADDITION	AL AREA S	UMMARY - REF 21 - 2	2612-01 - R	M 2654
DESCRIPTION	TYPE	LOCATION		LENGTH (LMI)
INTERSECTION	F	SH 33		0.016
			TOTAL:	0.016

ADDITIONAL AREA SUMMARY - REF 24 - 0797-03 - FM 748				
DESCRIPTION	TYPE	LOCATION	LENGTH (LMI)	
INTERSECTION	F	SH 152	0.016	
		TOTAL:	0,016	

ADDITIONAL AREA SUMMARY - REF 25 - 0797-04 - RM 2857				
DESCRIPTION	TYPE	LOCATION	LENGTH (LMI)	
INTERSECTION	F	SH 152	0.016	
INTERSECTION	F	FM 282	0.016	
		TOTAL:	0,032	

ADDITIONAL AREA SUMMARY - REF 26 - 0797-01 - FM 283				
DESCRIPTION	TYPE		LOCATION	LENGTH (LMI)
INTERSECTION	J	SH 70		0.103
ADD'L AREA "C"	EXH	FM 282		0.016
			TOTAL:	0,119

ADDITIONAL AREA SUMMARY - REF 27 - 2492-01 - FM 282				
DESCRIPTION	TYPE	LOCATION	l	LENGTH (LMI)
INTERSECTION	F	SH 70		0.014
			TOTAL:	0,014

ADDITIONAL AREA SUMMARY - REF 29 - 0169-10 - FM 282				
DESCRIPTION	TYPE		OCATION	LENGTH (LMI)
INTERSECTION	F	US 60		0.008
			TOTAL:	0,008

ADDITIONAL AREA SUMMARY - REF 30 - 0560-01 - SL 171					
DESCRIPTION	TYPE	LOCATION	LENGTH (LMI)		
INTERSECTION	F	SH 70 (NORTH)	0.072		
INTERSECTION	Н	US 60	0.182		
INTERSECTION	F	SH 273	0.078		
		TOTAL:	0.332		

ADDITIONAL AREA SUMMARY - REF 32 - 0169-07 - US 60				
DESCRIPTION	TYPE	LOCATION	LENGTH (LMI)	
INTERSECTION	F	SH 70 (SOUTH)	0.050	
INTERSECTION	Н	FM 249	0.088	
		TOTAL:	0,138	

ADDITION	AL AREA	SUMMARY -	REF 01 -	1141-01 - F	M 296	
DESCRIPTION	TYPE		LOCATION	J	LENGTH	(LMI)
INTERSECTION	F	SH 102				0.007
				TOTAL:		0,007

ADDITIONAL AREA SUMMARY - REF 02 - 1141-01 - FM 296				
DESCRIPTION	TYPE	LOCATION	LENGTH (LMI)	
INTERSECTION	G	FM 3110	0.007	
		TOTAL:	0.007	

ADDITIONAL AREA SUMMARY - REF 03 - 0041-01 - US 87				
DESCRIPTION	TYPE	LOCATION	LENGTH (LMI)	
CROSSOVER	А	0.71 MI N OF FM 281	0.091	
CROSSOVER	A	0.22 MI N OF FM 281	0.086	
CROSSOVER	А	FM 281	0.110	
CROSSOVER	А	0.39 MI S OF FM 281	0.090	
CROSSOVER	А	0.41 MI N OF CR C	0.103	
CROSSOVER	А	CR C	0.091	
CROSSOVER	A	0.58 MI S OF CR C	0.082	
CROSSOVER	А	1.18 MI S OF CR C	0.099	
CROSSOVER	А	0.44 MI N OF CR E	0.084	
CROSSOVER	А	CR E	0.101	
CROSSOVER	В	0.59 MI S OF CR E	0.054	
CROSSOVER	В	1.11 MI S OF CR E	0.054	
CROSSOVER	В	.73 MI N OF CR G	0.059	
CROSSOVER	В	0.38 MI N OF CR G	0.048	
CROSSOVER	В	CR G	0.065	
CROSSOVER	В	0.07 MI S OF CR G	0.050	
CROSSOVER	В	0.46 MI S OF CR G	0.057	
CROSSOVER	В	0.7 MI N OF CR I	0.069	
CROSSOVER	В	0.47 MI N OF CR I	0.059	
CROSSOVER	А	CR I	0.108	
CROSSOVER	В	0.39 MI S OF CR I	0.110	
CROSSOVER	Α	CR K	0.110	
CROSSOVER	С	0.16 MI S OF CR K	0.027	
CROSSOVER	В	0.4 MI S OF CR K	0.038	
ADD'L AREA "A"	EXH	INTERCHANGE	6.181	
		TOTAL:	8,026	

ADDITIONAL AREA SUMMARY - REF 06 - 0794-04 - FM 281					
DESCRIPTION	TYPE	LOCATION		LENGTH (LMI)	
INTERSECTION	F	FM 119		0.014	
		I	OTAL:	0.014	

ADDITIONAL AREA SUMMARY - REF 07 - 0066-04 - US 287				
DESCRIPTION	TYPE	LOCATION	LENGTH (LMI)	
ENTRY RAMP	D	FM 281	0.663	
ADD'L AREA "B"	ЕХН	BIRCH AVE/FRONTAGE RD	0.951	
CROSSOVER	А	LOLLIS DR	0.093	
CROSSOVER	А	BIRCH AVE	0.090	
CROSSOVER	А	FLINT ST	0.129	
CROSSOVER	А	BOULDER AVE	0.152	
CROSSOVER	А	CLINE ST	0.101	
CROSSOVER	А	TUMBLEWEED RD	0.158	
CROSSOVER	А	PALO DURO DR	0.144	
CROSSOVER	А	LOMETA DR	0.176	
CROSSOVER	В	SOUTH DR	0.076	
CROSSOVER	А	CENTER DR	0.133	
CROSSOVER	А	NORTH DR	0.150	
CROSSOVER	А	MANFORT RD	0.148	
CROSSOVER	А	SHERMAN COUNTY LINE	0.100	
		TOTAL:	3.264	

ADDITION	AL AREA	SUMMARY - REF 08 -	0727-01 - F	M 119
DESCRIPTION	TYPE	LOCATION		LENGTH (LMI)
INTERSECTION	J	US 287		0.110
			TOTAL:	0,110

ADDITIONAL AREA SUMMARY - REF 08 - 0727-01 - FM 119					
DESCRIPTION	TYPE	LOCA	TION	LENGTH (LMI)	
INTERSECTION	J	US 287		0.110	
			TOTAL:	0,110	
ADDITION	AL AREA S	SUMMARY - REF O	9 - 2001-02 - FI	4 2589	
DESCRIPTION	TYPE	LOCA	TION	LENGTH (LMI)	
INTERSECTION	K	FM 722		0.502	
			TOTAL:	0,502	



Texas Department of Transportation							
DSN	СК	CONT	SECT	JC	в		HIGHWAY
JD	۸J	0904	00	200,	ETC	٧	ARIOUS
DRWN	СК	DIST		COU	INTY		SHEET NO.
JD	СН	AMA	F	POTTER	R, ET	Ċ	40

ADDITION	AL AREA S	UMMARY - REF 61 - 0042-03 - U	JS 287
DESCRIPTION	TYPE	LOCATION	LENGTH (LMI)
CROSSOVER	В	0.14 MI EAST OF CR 14	0.131
		TOTAL:	0,131

ADDITIONAL AREA SUMMARY - REF 63 - 2002-02 - FM 2219					
DESCRIPTION	TYPE	LOCATION	LENGTH (LMI)		
ADD'L AREA "M"	ЕХH	IH 27	0.480		
		TOTAL:	0, 480		

ADDITION	IAL AREA	SUMMARY - REF 64 - 3527-01- FM	3331
DESCRIPTION	TYPE	LOCATION	LENGTH (LMI)
CROSSOVER	С	0.32 MI SOUTH OF 17TH AVE	0.016
CROSSOVER	С	0.17 MI NORTH OF CANYON CL	0.016
		TOTAL:	0,032

ADDITION	AL AREA	SUMMARY - REF 65 - 3527-01- FM	4 3331
DESCRIPTION	TYPE	LOCATION	LENGTH (LMI)
ADD'L AREA "N"	ЕХH	IH 27	0.550
INTERSECTION	F	FM 1541	0.016
		TOTAL:	0.566

ADDITION	AL AREA S	5UMMARY - REF 66 - 1246-01 - FI	M 1057
DESCRIPTION	TYPE	LOCATION	LENGTH (LMI)
INTERSECTION	F	US 385	0.012
		TOTAL:	0,012

ADDITION	۹L
DESCRIPTION	
INTERSECTION	

ADDITIONAL AREA SUMMARY - REF 71 - 1489-02 - FM 1573				
DESCRIPTION	TYPE		LOCATION	LENGTH (LMI)
INTERSECTION	L	SH 15		0.393
			TOTAL:	0, 393

ADDITION	AL AREA	SUMMARY - REF 74	- 0753-04 - F	M 293
DESCRIPTION	TYPE	LOCAT	ION	LENGTH (LMI)
INTERSECTION	F	SH 70		0.012
			TOTAL:	0,012

ADDITIONAL AREA SUMMARY - REF 47 - 0169-13 - BI-40 (D)				
DESCRIPTION	TYPE	LOCATION	LENGTH (LF)	
INTERSECTION	F	US 60	0.02	
CROSSOVER	А	RAEF RD	0.15	
		TOTAL:	0,18	

ADDITIONAL AREA SUMMARY - REF 48 - 0169-14 - BI-40 (D)				
DESCRIPTION	TYPE	LOCATION	LENGTH (LMI)	
CROSSOVER	А	CR A	0.110	
CROSSOVER	С	0.78 MI S OF CR A	0.016	
CROSSOVER	С	0.17 MI N OF IH 40	0.016	
ADD'L AREA "I"	ЕХН	I H - 40	0.107	
ADD'L AREA "J"	ЕХН	IH-40	0.156	
		TOTAL:	0.405	

ADDITIONAL AREA SUMMARY - REF 49 - 1840-01 - FM 683					
DESCRIPTION	TYPE		LOCATION	LENGTH (LMI)	
INTERSECTION	L	FM 293		0.141	
INTERSECTION	G	FM 245		0.087	
			TOTAL:	0,228	

ADDITION	AL AREA	SUMMARY -	REF 50 - 0664-02 - F	M 683
DESCRIPTION	TYPE		LOCATION	LENGTH (LMI)
INTERSECTION	F	US 60		0.013
			TOTAL:	0,013

ADDITIONAL AREA SUMMARY - REF 52 - 0169-01 - US 60				
DESCRIPTION	TYPE	LOCATION	LENGTH (LMI)	
ADD'L AREA "K"	EXH	RAILROAD OVERPASS	1.971	
		TOTAL:	1,971	

ADDITIONAL AREA SUMMARY - REF 53 - 0169-01 - US 60					
DESCRIPTION	TYPE	LOCATION	LENGTH (LMI)		
CROSSOVER	В	N PIERCE ST	0.072		
CROSSOVER	В	n Buchanan st	0.027		
CROSSOVER	А	N LINCOLN ST	0.060		
		TOTAL:	0.159		

DESCRIPTION	TYPE	LOCATION	LENGTH (LMI
ADD'L AREA "L"	EXH	FM 1061	0.88
CROSSOVER	Α	.097 MI NO OF FM 1061	0.08
CROSSOVER	А	PLUM CREEK DR	0.08
CROSSOVER	С	GRACE LANE	0.01
CROSSOVER	С	PALOMINO ST	0.01
CROSSOVER	С	NW 4TH AVE	0.01
CROSSOVER	А	N BELLEVIEW ST	0.08
CROSSOVER	С	N FAIRMONT ST	0.01
CROSSOVER	В	N MARYLAND ST	0.05
CROSSOVER	С	N TENNESSEE ST	0.01
CROSSOVER	С	N CAROLINA ST	0.01
CROSSOVER	С	N LOUISIANA ST	0.01
CROSSOVER	С	N ALABAMA ST	0.01
CROSSOVER	С	N KENTUCKY ST	0.01
CROSSOVER	С	N FLORIDA ST	0.01
CROSSOVER	А	S McMASTERS ST	0,10
CROSSOVER	В	N LAMAR ST	0.05
CROSSOVER	С	N FANIN ST	0.01
CROSSOVER	С	N BONHAM	0.01
CROSSOVER	В	N TRAVIS ST	0.05
CROSSOVER	А	N POLK ST	0.08
CROSSOVER	В	N TAYLOR ST	0.05
CROSSOVER	В	N FILMORE ST	0.05
		TOTAL:	1,73

ADDITION	AL AREA	SUMMARY - REF	58 - 1335-01 - FI	M 1258
DESCRIPTION	TYPE	L	OCATION	LENGTH (LMI)
INTERSECTION	F	SH 207		0.008
			TOTAL:	0.008

ADDITIO	ADDITIONAL AREA SUMMARY - REF 37 - 0169-05 - US 60					
DESCRIPTION	TYPE	LOCATION	LENGTH (LMI)			
CROSSOVER	С	0.47 MI WEST OF CR S	0.019			
CROSSOVER	A	CR S	0.161			
		TOTAL:	0,180			

ADDITIONAL AREA SUMMARY - REF 38 - 0169-04 - US 60						
DESCRIPTION	TYPE	LOCATION	LENGTH (LMI)			
CROSSOVER	А	FM 293	0.155			
CROSSOVER	А	0.20 MI WEST OF NORTH CR 12	0.161			
CROSSOVER	А	NORTH CR 12	0.146			
CROSSOVER	С	SOUTH CR 12	0.019			
CROSSOVER	А	CR Q	0.161			
CROSSOVER	С	0.16 MI WEST OF CR 13	0.019			
CROSSOVER	А	CR R	0.161			
		TOTAL:	0,822			

ADDITIONAL A	REA SUMMA	ARY - REF 41 - 0169-03 - US 60	(EB ONLY)
DESCRIPTION	TYPE	LOCATION	LENGTH (LMI)
CROSSOVER	С	0.53 MI WEST OF CR J	0.016
ADD'L AREA "F"	EXH	HISTORICAL MARKER	0.114
CROSSOVER	С	CR J	0.016
CROSSOVER	С	0.33 MI EAST OF CR J	0.016
CROSSOVER	С	0.18 MI WEST OF CR K	0.023
CROSSOVER	С	CR K	0.023
CROSSOVER	С	0.24 MI EAST OF CR K	0.023
CROSSOVER	С	0.39 MI WEST OF CR L	0.023
CROSSOVER	С	CR L	0.023
CROSSOVER	С	0.49 MI EAST OF CR L	0.016
CROSSOVER	С	0.74 MI EAST OF CR L	0.016
CROSSOVER	С	1.10 MI EAST OF CR L	0.016
ADD'L AREA "G"	EXH	0.12 MI EAST OF PANHANDLE	1.715
		TOTAL:	2.040

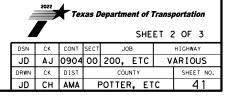
ADDITIONAL A	REA SUMM/	ARY - REF 42 - 0169-03 - US 60	(EB ONLY)
DESCRIPTION	TYPE	LOCATION	LENGTH (LF)
CROSSOVER	А	FM 683	0.262
CROSSOVER	С	0.32 MI EAST OF FM 683	0.023
CROSSOVER	С	CR 6	0.012
CROSSOVER	С	CR B	0.016
CROSSOVER	С	0.22 MI EAST OF CR B	0.023
CROSSOVER	С	0.50 MI EAST OF CR B	0.023
CROSSOVER	С	CR C	0.023
CROSSOVER	С	0.25 MI EAST OF CR C	0.023
CROSSOVER	С	CR 7	0.023
CROSSOVER	С	0.67 MI WEST OF CR 8	0.023
CROSSOVER	С	CR 8	0.023
CROSSOVER	А	FM 2161	0.179
CROSSOVER	С	0.46 MI EAST OF FM 2161	0.016
CROSSOVER	С	1.04 MI EAST OF FM 2161	0.023
CROSSOVER	С	1.59 MI EAST OF FM 2161	0.023
CROSSOVER	С	2.11 MI EAST OF FM 2161	0.023
		TOTAL:	0.738

ADDITIONA	L AREA SU	JMMARY - REF 44 - 0275-21 - BI	-40 (F)
DESCRIPTION	TYPE	LOCATION	LENGTH (LF)
CROSSOVER	С	CR BB	0.016
CROSSOVER	С	0.29 MI WEST OF GRAY CL	0.016
CROSSOVER	С	0.25 MI WEST OF GRAY CL	0.016
		TOTAL:	0.048

ADDITIONAL	L AREA SU	JMMARY - REF 45 - 0275-22 - BI	-40 (F)
DESCRIPTION	TYPE	LOCATION	LENGTH (LF)
CROSSOVER	С	IH 40	0.023
INTERSECTION	F	I H - 40	0.016
INTERSECTION	F	IH-40 N FFRONTAGE	0.016
ADD'L AREA "H"	EXH	IH-40 S FRONTAGE	0.821
		TOTAL:	0.876

AREA S	UMMARY - REF 69 - 1108-02 - R	4 3296
TYPE	LOCATION	LENGTH (LMI)
F	US 54	0.012
	TOTAL:	0.012

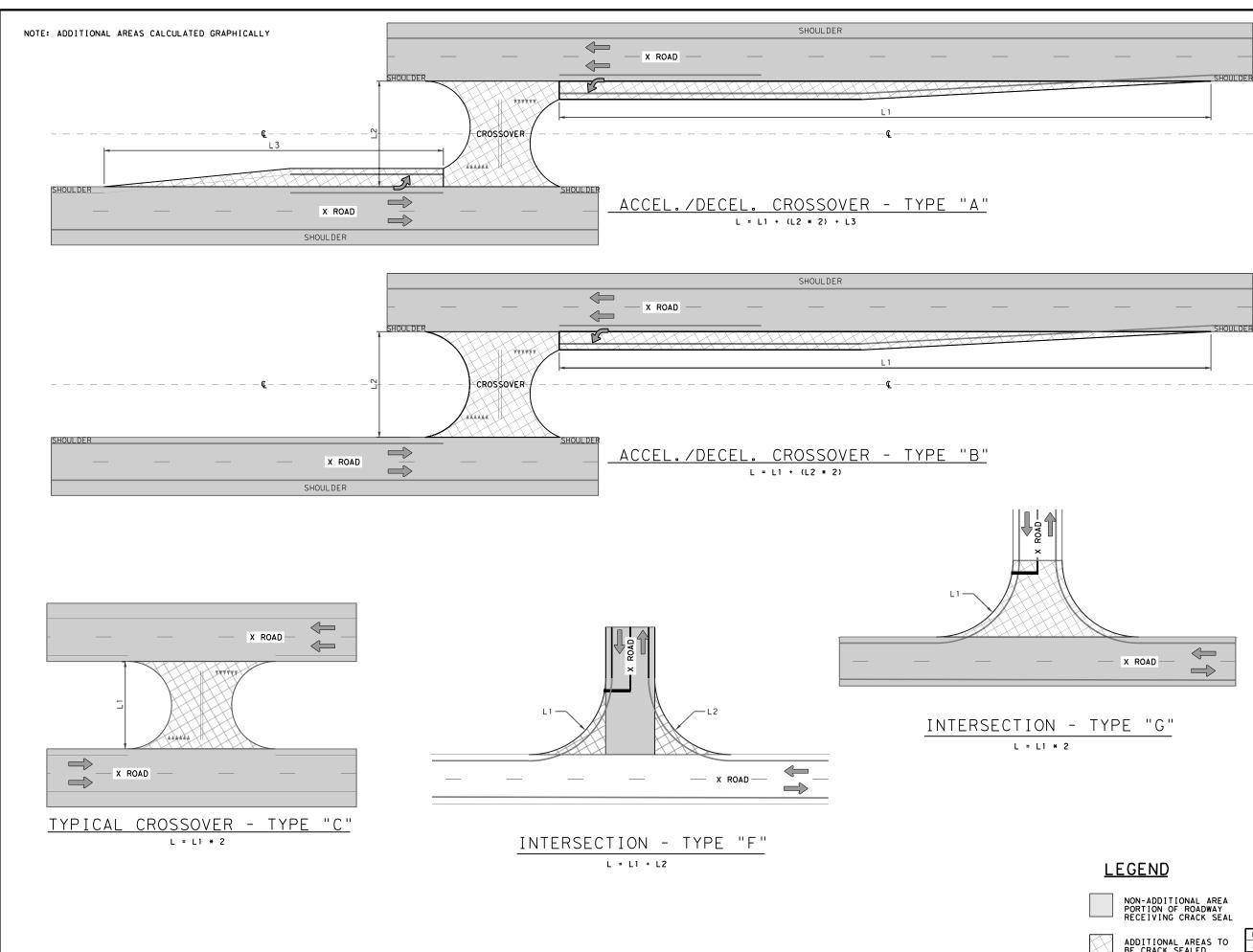




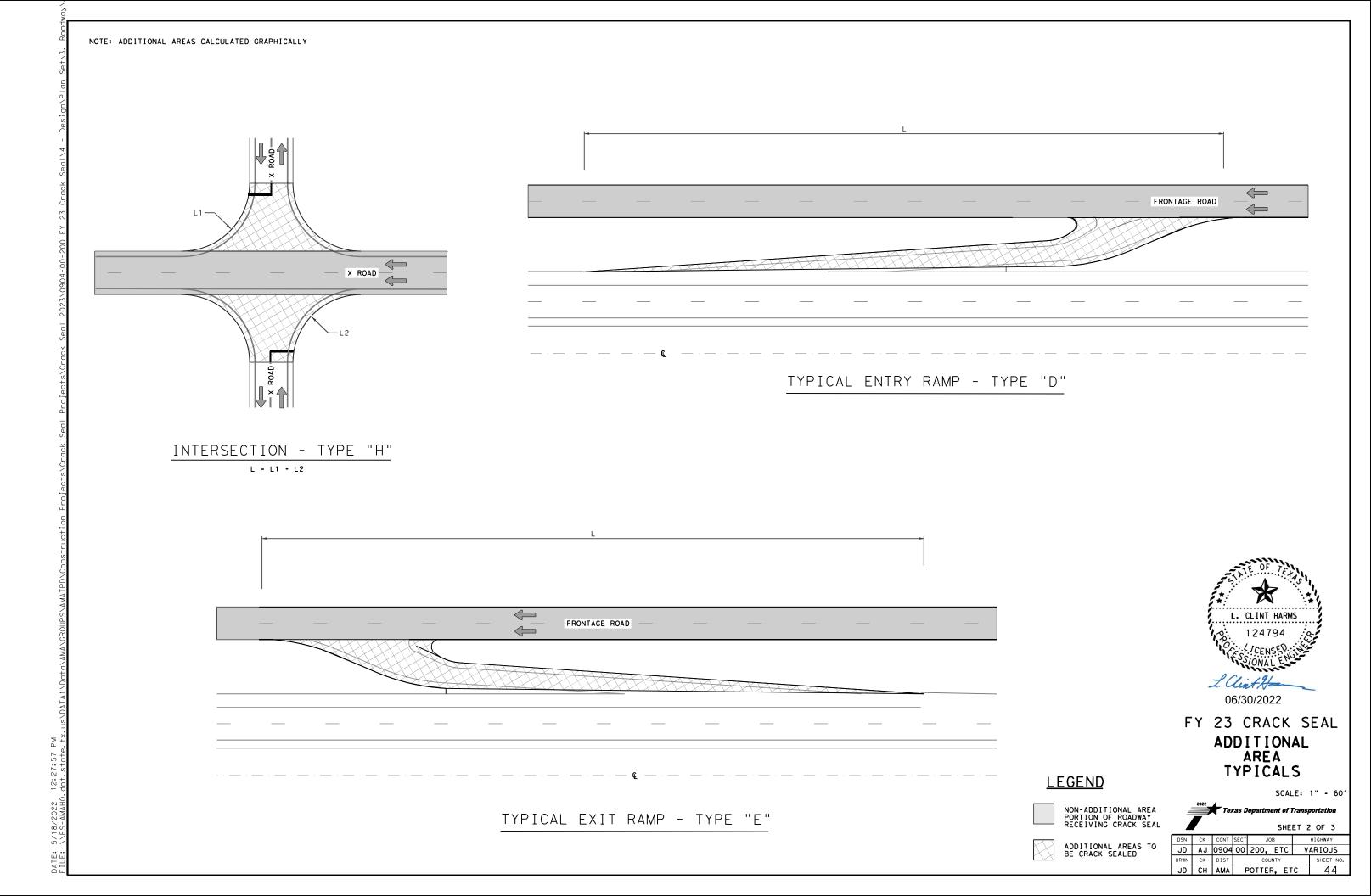
1001714			
		SUMMARY - REF 75 - 1339-01 - 1	
DESCRIPTION	TYPE		LENGTH (LMI)
INTERSECTION	F	SH 15	0.01
		TOTAL:	0.01
		SUMMARY - REF 76 - 1339-03 - 1	EM 1454
DESCRIPTION			LENGTH (LMI)
INTERSECTION	F	SH 15	0.01
INTERSECTION	G	FM 2741	0.06
INTERSECTION		TOTAL:	0,07
ADDITIC	NAL AREA	SUMMARY - REF 77 - 1339-02 -	FM 1454
DESCRIPTION	TYPE	LOCATION	LENGTH (LMI)
INTERSECTION	F	SH 213	0.00
		TOTAL:	0,00
		SUMMARY - REF 79 - 2218-02 -	
DESCRIPTION	F TYPE	LOCATION US 287	LENGTH (LMI)
INTERSECTION	F	TOTAL:	0.01
		IVIAL	0.01
	NAL AREA	SUMMARY - REF 80 - 2496-01 -	FM 1721
DESCRIPTION	TYPE	LOCATION	LENGTH (LMI)
INTERSECTION	F	FM 285	0.01
		TOTAL:	0,01
		MARY - REF 81 - 0275-02 - IH	
DESCRIPTION	TYPE	LOCATION	LENGTH (LMI)
DESCRIPTION INTERSECTION	F TYPE	LOCATION BI-40-D	LENGTH (LMI)
DESCRIPTION INTERSECTION INTERSECTION	F I	LOCATION BI-40-D FRONTAGE ROAD RAMP TIE IN	LENGTH (LMI) 0.00 0.30
DESCRIPTION INTERSECTION INTERSECTION INTERSECTION	TYPE F I F	LOCATION BI-40-D FRONTAGE ROAD RAMP TIE IN FM 2373	LENGTH (LMI) 0.00 0.30 0.00
DESCRIPTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION	TYPE F I F F F	LOCATION BI-40-D FRONTAGE ROAD RAMP TIE IN FM 2373 FM 2373	LENGTH (LMI) 0.00 0.30 0.00 0.00
DESCRIPTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION EXIT RAMP	TYPE F I F F E	LOCATION BI-40-D FRONTAGE ROAD RAMP TIE IN FM 2373 FM 2373 IH-40 AT FM 2373	LENGTH (LMI) 0.00 0.30 0.00 0.00 0.19
DESCRIPTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION EXIT RAMP ENTRY RAMP	TYPE F I F F F	LOCATION BI-40-D FRONTAGE ROAD RAMP TIE IN FM 2373 FM 2373	LENGTH (LMI) 0.00 0.30 0.00 0.00
DESCRIPTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION EXIT RAMP ENTRY RAMP INTERSECTION	TYPE F I F E D	LOCATION BI-40-D FRONTAGE ROAD RAMP TIE IN FM 2373 FM 2373 IH-40 AT FM 2373 IH-40 WEST OF FM 2161	LENGTH (LMI) 0.00 0.30 0.00 0.00 0.19 0.01
DESCRIPTION INTERSECTION INTERSECTION INTERSECTION EXIT RAMP ENTRY RAMP INTERSECTION INTERSECTION	TYPE F I F E D F	LOCATION BI-40-D FRONTAGE ROAD RAMP TIE IN FM 2373 FM 2373 IH-40 AT FM 2373 IH-40 WEST OF FM 2161 FM 2161	LENGTH (LMI) 0.00 0.30 0.00 0.00 0.19 0.01 0.00
DESCRIPTION INTERSECTION INTERSECTION INTERSECTION EXIT RAMP ENTRY RAMP INTERSECTION INTERSECTION EXIT RAMP	TYPE F I F E D F F	LOCATION BI-40-D FRONTAGE ROAD RAMP TIE IN FM 2373 FM 2373 IH-40 AT FM 2373 IH-40 WEST OF FM 2161 FM 2161 FM 2161	LENGTH (LMI) 0.00 0.30 0.00 0.00 0.19 0.01 0.00 0.00
DESCRIPTION INTERSECTION INTERSECTION INTERSECTION EXIT RAMP ENTRY RAMP INTERSECTION INTERSECTION EXIT RAMP INTERSECTION	TYPE F I F E D F E D F E D F E	LOCATION BI-40-D FRONTAGE ROAD RAMP TIE IN FM 2373 FM 2373 IH-40 AT FM 2373 IH-40 WEST OF FM 2161 FM 2161 FM 2161 IH-40 WEAST OF FM 2161	LENGTH (LMI) 0.00 0.30 0.00 0.00 0.19 0.01 0.00 0.00 0.00
DESCRIPTION INTERSECTION INTERSECTION INTERSECTION EXIT RAMP ENTRY RAMP INTERSECTION INTERSECTION EXIT RAMP INTERSECTION	TYPE F I F E D F E D F F F F F F F F F F F F F F F F	LOCATION BI-40-D FRONTAGE ROAD RAMP TIE IN FM 2373 FM 2373 IH-40 AT FM 2373 IH-40 WEST OF FM 2161 FM 2161 FM 2161 IH-40 WEAST OF FM 2161 CR I	LENGTH (LMI) 0.00 0.30 0.00 0.00 0.19 0.01 0.00 0.00 0.00 0.0
DESCRIPTION INTERSECTION INTERSECTION INTERSECTION EXIT RAMP ENTRY RAMP INTERSECTION EXIT RAMP INTERSECTION EXIT RAMP INTERSECTION INTERSECTION	TYPE F I F E D F E F E F F F F F F F F F	LOCATION BI-40-D FRONTAGE ROAD RAMP TIE IN FM 2373 FM 2373 IH-40 AT FM 2373 IH-40 WEST OF FM 2161 FM 2161 FM 2161 IH-40 WEAST OF FM 2161 CR I CR I CR I TOTAL:	LENGTH (LMI) 0.00 0.30 0.00 0.00 0.19 0.01 0.01 0.00 0.00 0.0
DESCRIPTION INTERSECTION INTERSECTION INTERSECTION EXIT RAMP ENTRY RAMP INTERSECTION INTERSECTION EXIT RAMP INTERSECTION INTERSECTION INTERSECTION	TYPE F I F E D F E F E F E F E F L AREA	LOCATION BI-40-D FRONTAGE ROAD RAMP TIE IN FM 2373 FM 2373 IH-40 AT FM 2373 IH-40 WEST OF FM 2161 FM 2161 FM 2161 IH-40 WEAST OF FM 2161 CR I CR I CR I TOTAL: MARY - REF 82 - 0275-03 - IH	LENGTH (LMI) 0.00 0.30 0.00 0.00 0.19 0.01 0.01 0.00 0.00 0.0
DESCRIPTION INTERSECTION INTERSECTION INTERSECTION EXIT RAMP ENTRY RAMP INTERSECTION EXIT RAMP INTERSECTION EXIT RAMP INTERSECTION INTERSECTION INTERSECTION ADDITIONA DESCRIPTION	TYPE F I F E D F E F E F E F E F L AREA TYPE	LOCATION BI-40-D FRONTAGE ROAD RAMP TIE IN FM 2373 FM 2373 IH-40 AT FM 2373 IH-40 WEST OF FM 2161 FM 2161 FM 2161 IH-40 WEAST OF FM 2161 CR I CR I CR I TOTAL: MARY - REF 82 - 0275-03 - IH LOCATION	LENGTH (LMI) 0.00 0.30 0.00 0.00 0.19 0.01 0.00
DESCRIPTION INTERSECTION INTERSECTION INTERSECTION EXIT RAMP ENTRY RAMP INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION ADDITIONA DESCRIPTION INTERSECTION	TYPE F I F E D F E F E F E F E F L AREA F F	LOCATION BI-40-D FRONTAGE ROAD RAMP TIE IN FM 2373 FM 2373 IH-40 AT FM 2373 IH-40 WEST OF FM 2161 FM 2161 FM 2161 IH-40 WEAST OF FM 2161 CR I CR I TOTAL: MARY - REF 82 - 0275-03 - IH LOCATION CR K	LENGTH (LMI) 0.00 0.30 0.00 0.00 0.01 0.01 0.00
DESCRIPTION INTERSECTION INTERSECTION INTERSECTION EXIT RAMP ENTRY RAMP INTERSECTION INTERSECTION INTERSECTION INTERSECTION MTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION	TYPE F I F D F E F	LOCATION BI-40-D FRONTAGE ROAD RAMP TIE IN FM 2373 FM 2373 IH-40 AT FM 2373 IH-40 WEST OF FM 2161 FM 2161 FM 2161 IH-40 WEAST OF FM 2161 CR I CR I TOTAL: MARY - REF 82 - 0275-03 - IH LOCATION CR K CR K	LENGTH (LMI 0.00 0.30 0.00 0.00 0.19 0.01 0.00 0.00 0.00 0.0
DESCRIPTION INTERSECTION INTERSECTION INTERSECTION EXIT RAMP ENTRY RAMP INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION	TYPE F I F D F E F	LOCATION BI-40-D FRONTAGE ROAD RAMP TIE IN FM 2373 FM 2373 IH-40 AT FM 2373 IH-40 WEST OF FM 2161 FM 2161 FM 2161 IH-40 WEAST OF FM 2161 CR I CR I TOTAL: MARY - REF 82 - 0275-03 - IH LOCATION CR K CR K CR K IH-40 WEST OF SH 207	LENGTH (LMI 0.00 0.30 0.00 0.00 0.19 0.01 0.00 0.00 0.00 0.0
DESCRIPTION INTERSECTION INTERSECTION INTERSECTION EXIT RAMP ENTRY RAMP INTERSECTION EXIT RAMP INTERSECTION EXIT RAMP INTERSECTION INTERSECTION INTERSECTION	TYPE F I F D F E F	LOCATION BI-40-D FRONTAGE ROAD RAMP TIE IN FM 2373 FM 2373 IH-40 AT FM 2373 IH-40 WEST OF FM 2161 FM 2161 FM 2161 IH-40 WEAST OF FM 2161 CR I CR I TOTAL: MARY - REF 82 - 0275-03 - IH LOCATION CR K CR K	LENGTH (LMI) 0.00 0.30 0.00 0.00 0.19 0.01 0.00 0.00 0.00 0.0
DESCRIPTION INTERSECTION INTERSECTION INTERSECTION EXIT RAMP ENTRY RAMP INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION	TYPE F I F D F E F	LOCATION BI-40-D FRONTAGE ROAD RAMP TIE IN FM 2373 FM 2373 IH-40 AT FM 2373 IH-40 WEST OF FM 2161 FM 2161 FM 2161 IH-40 WEAST OF FM 2161 CR I CR I TOTAL: MARY - REF 82 - 0275-03 - IH LOCATION CR K CR K CR K CR K IH-40 WEST OF SH 207 SH 207	LENGTH (LMI 0.00 0.30 0.00 0.00 0.19 0.01 0.00 0.00 0.00 0.0
DESCRIPTION INTERSECTION INTERSECTION INTERSECTION EXIT RAMP ENTRY RAMP INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION ENTRY RAMP INTERSECTION ENTRY RAMP	TYPE F I F D F E F E F E F F F F F F F F F F F F F F F F F	LOCATION BI-40-D FRONTAGE ROAD RAMP TIE IN FM 2373 FM 2373 IH-40 AT FM 2373 IH-40 WEST OF FM 2161 FM 2161 FM 2161 IH-40 WEAST OF FM 2161 CR I CR I TOTAL: MARY - REF 82 - 0275-03 - IH LOCATION CR K CR K CR K IH-40 WEST OF SH 207 SH 207 TOTAL: - REF 83 - 0904-10-003 - ROBE	LENGTH (LMI) 0.00 0.30 0.00 0.00 0.00 0.01 0.01 0.00
DESCRIPTION INTERSECTION INTERSECTION INTERSECTION EXIT RAMP ENTRY RAMP INTERSECTION EXIT RAMP INTERSECTION EXIT RAMP INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION	TYPE F I F D F E F E F E F F F F F F F F F F F F F F F F F	LOCATION BI-40-D FRONTAGE ROAD RAMP TIE IN FM 2373 FM 2373 IH-40 AT FM 2373 IH-40 WEST OF FM 2161 FM 2161 FM 2161 IH-40 WEAST OF FM 2161 CR I CR I TOTAL: MARY - REF 82 - 0275-03 - IH LOCATION CR K CR K CR K IH-40 WEST OF SH 207 SH 207 TOTAL: - REF 83 - 0904-10-003 - ROBE LOCATION	LENGTH (LMI) 0.00 0.30 0.00 0.00 0.00 0.19 0.01 0.00
DESCRIPTION INTERSECTION INTERSECTION INTERSECTION EXIT RAMP ENTRY RAMP INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION ENTRY RAMP INTERSECTION ENTRY RAMP	TYPE F I F D F E F E F E F F F F F F F F F F F F F F F SUMMARY	LOCATION BI-40-D FRONTAGE ROAD RAMP TIE IN FM 2373 FM 2373 IH-40 AT FM 2373 IH-40 WEST OF FM 2161 FM 2161 FM 2161 IH-40 WEAST OF FM 2161 CR I CR I TOTAL: MARY - REF 82 - 0275-03 - IH LOCATION CR K CR K CR K IH-40 WEST OF SH 207 SH 207 TOTAL: - REF 83 - 0904-10-003 - ROBE	LENGTH (LMI) 0.00 0.30 0.00 0.00 0.00 0.01 0.01 0.00

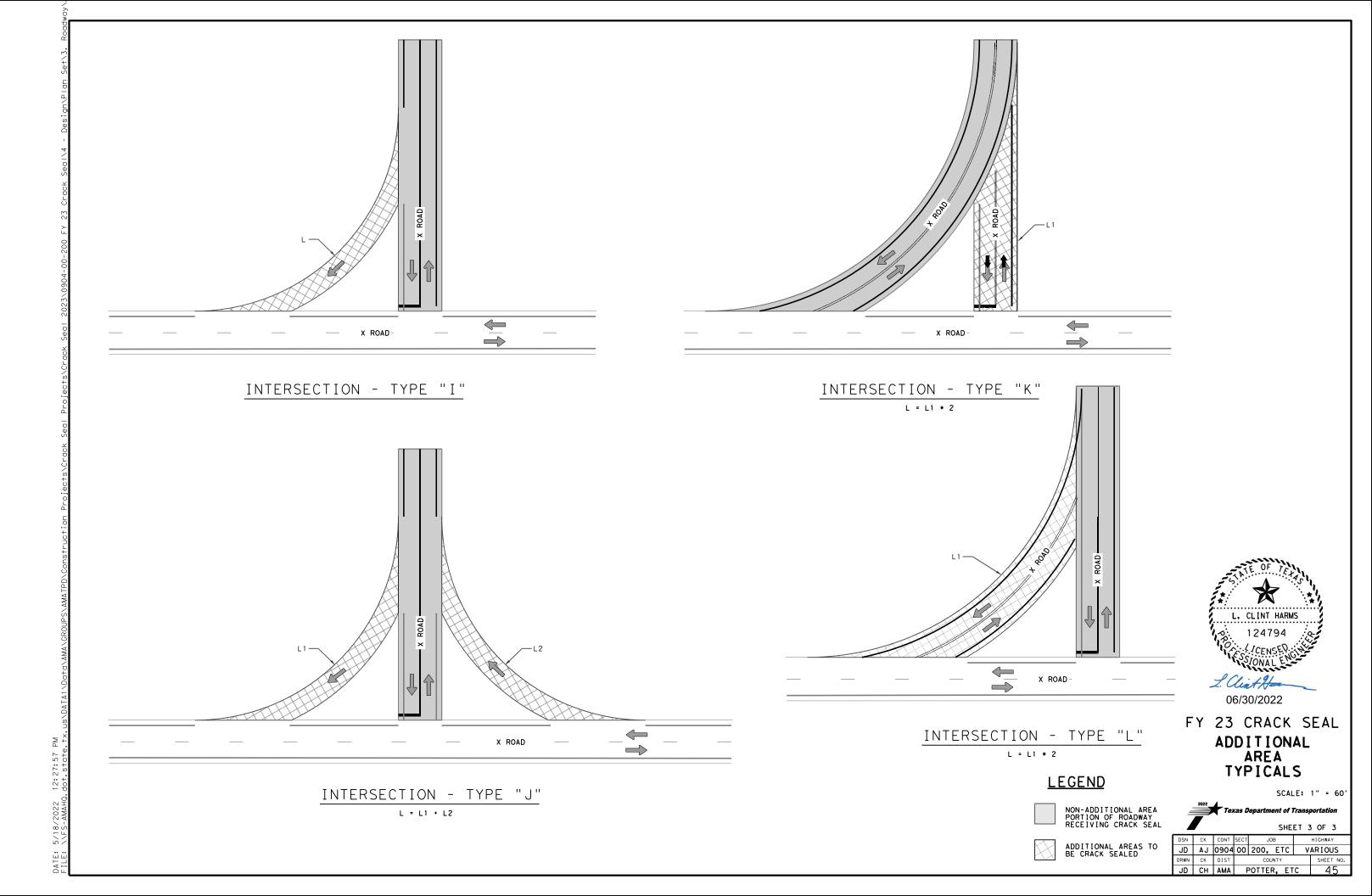
FY 23 CRACK SEAL ADDITIONAL AREA SUMMARY

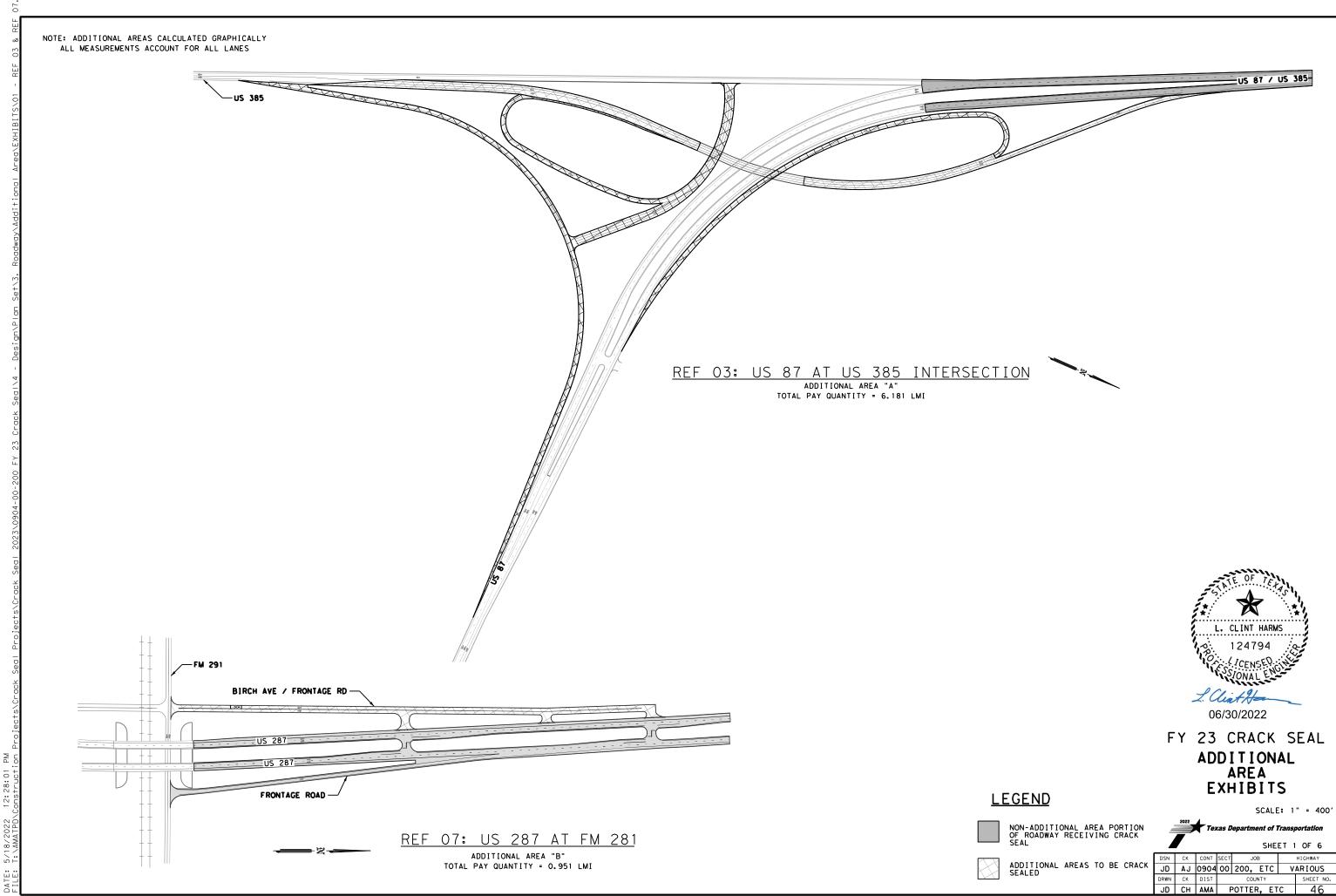
à	2022	Tes	cas D	epartm			oortation 3 OF 3
DSN	СК	CONT	SECT	JC	в		HIGHWAY
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JD	СН	AMA	F	POTTER	R, ET	.C	42



NON-ADDITIONAL AREA	<u>X ROAD</u> <u>X ROAD</u> <u>X ROAD</u> <u>X ROAD</u> <u>X ROAD</u>	L. CLINT HARMS 124794 CSS/ONAL ENGLISH L. CLINT HARMS
SCALE: 1" = 60'		FY 23 CRACK SEAL ADDITIONAL AREA
PORTION OF ROADWAY	NON-ADDITIONAL AREA PORTION OF ROADWAY	
ADDITIONAL AREAS TO BE CRACK SEALED ADDITIONAL AREAS TO DSN CK CONT SECT JOB HIGHWAY JD AJ 0904 00 200, ETC VARIOUS DRWN CK DIST COUNTY SHEET NO. JD CH AMA POTTER, ETC 43	ADDITIONAL AREAS TO	DSN CK CONT SECT JOB HIGHWAY JD AJ 0904 00 200, ETC VARIOUS DRWN CK DIST COUNTY SHEET NO.

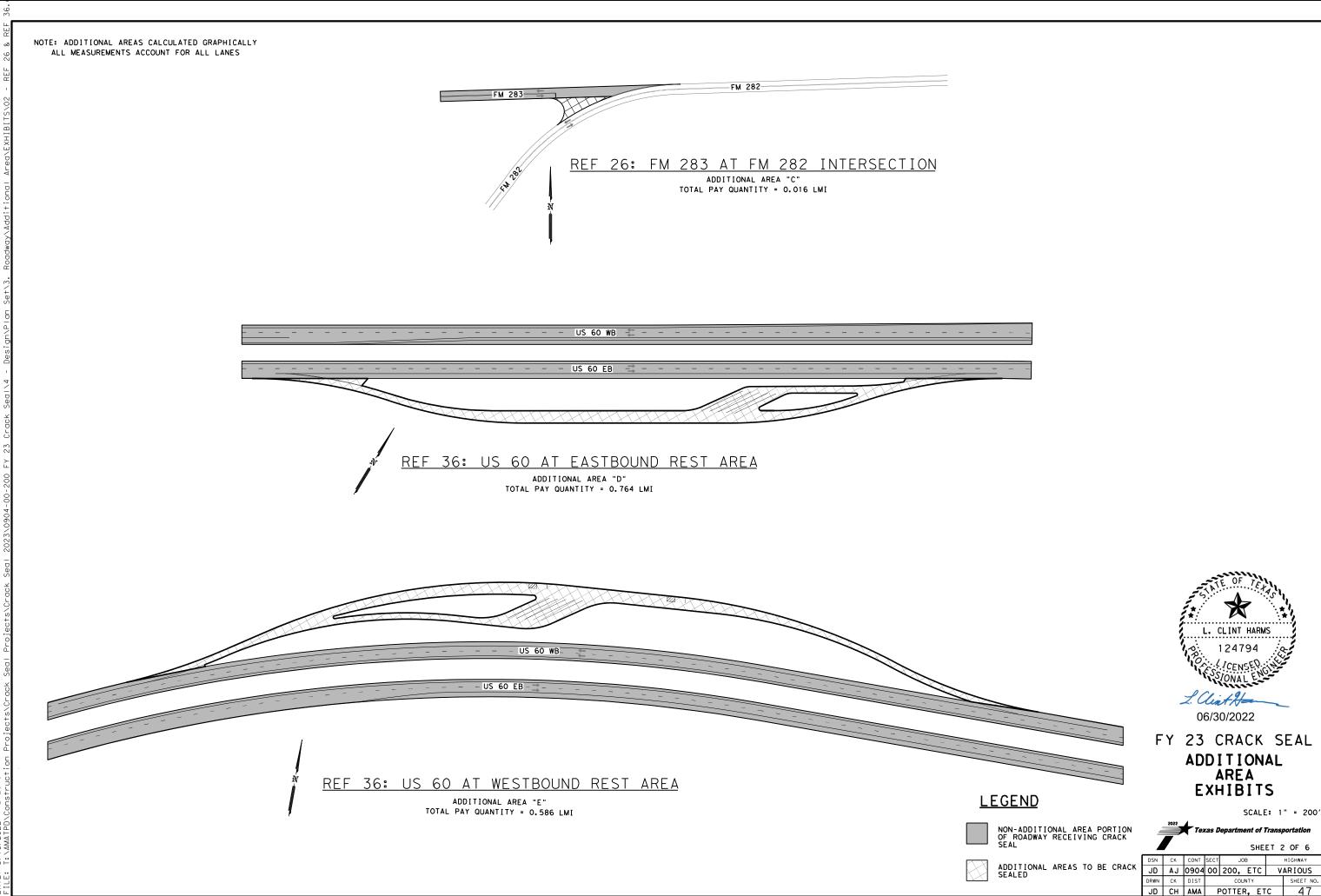




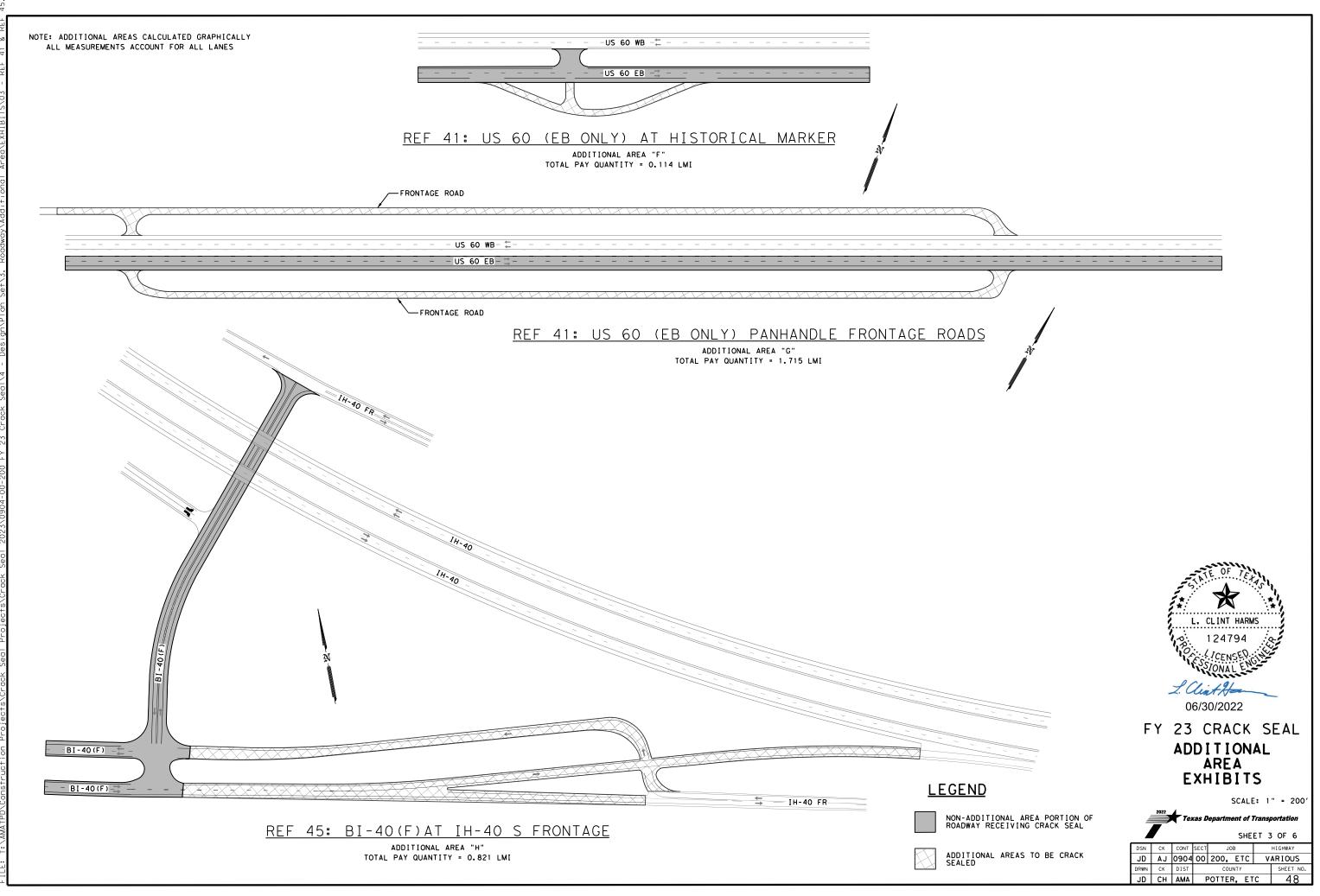


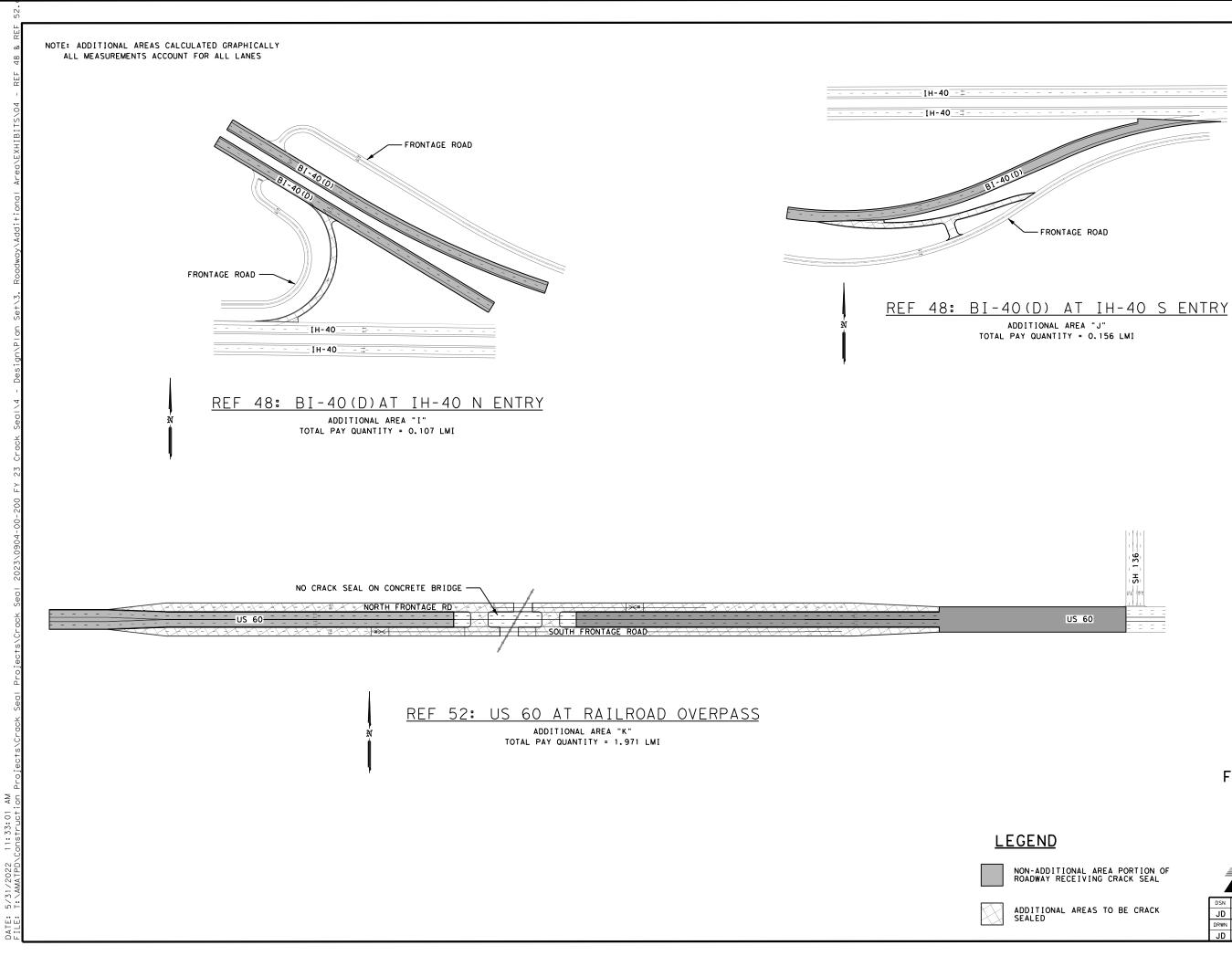
NON-ADDITIONAL AREA PORTION
OF ROADWAY RECEIVING CRACK SEAL

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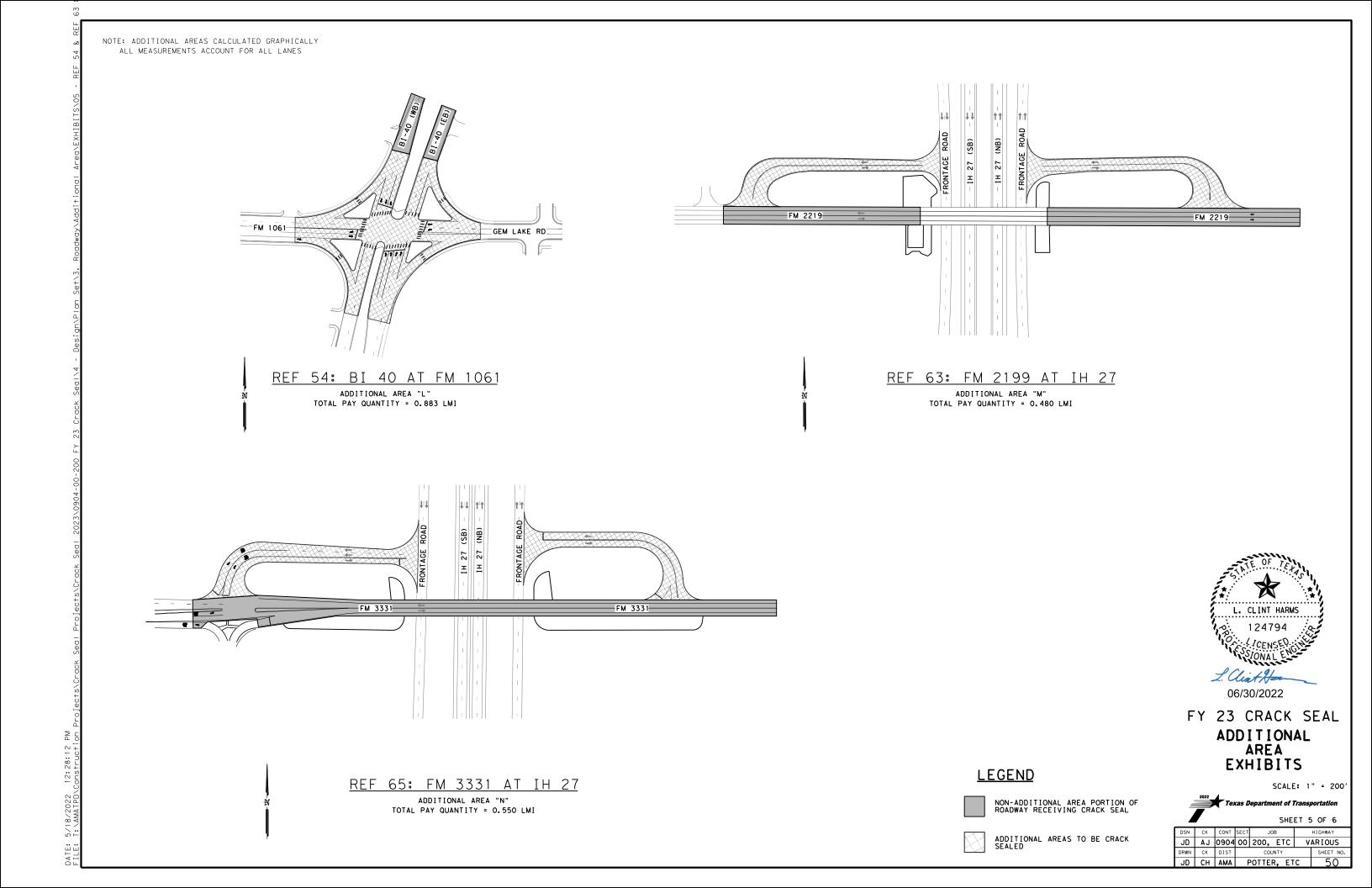


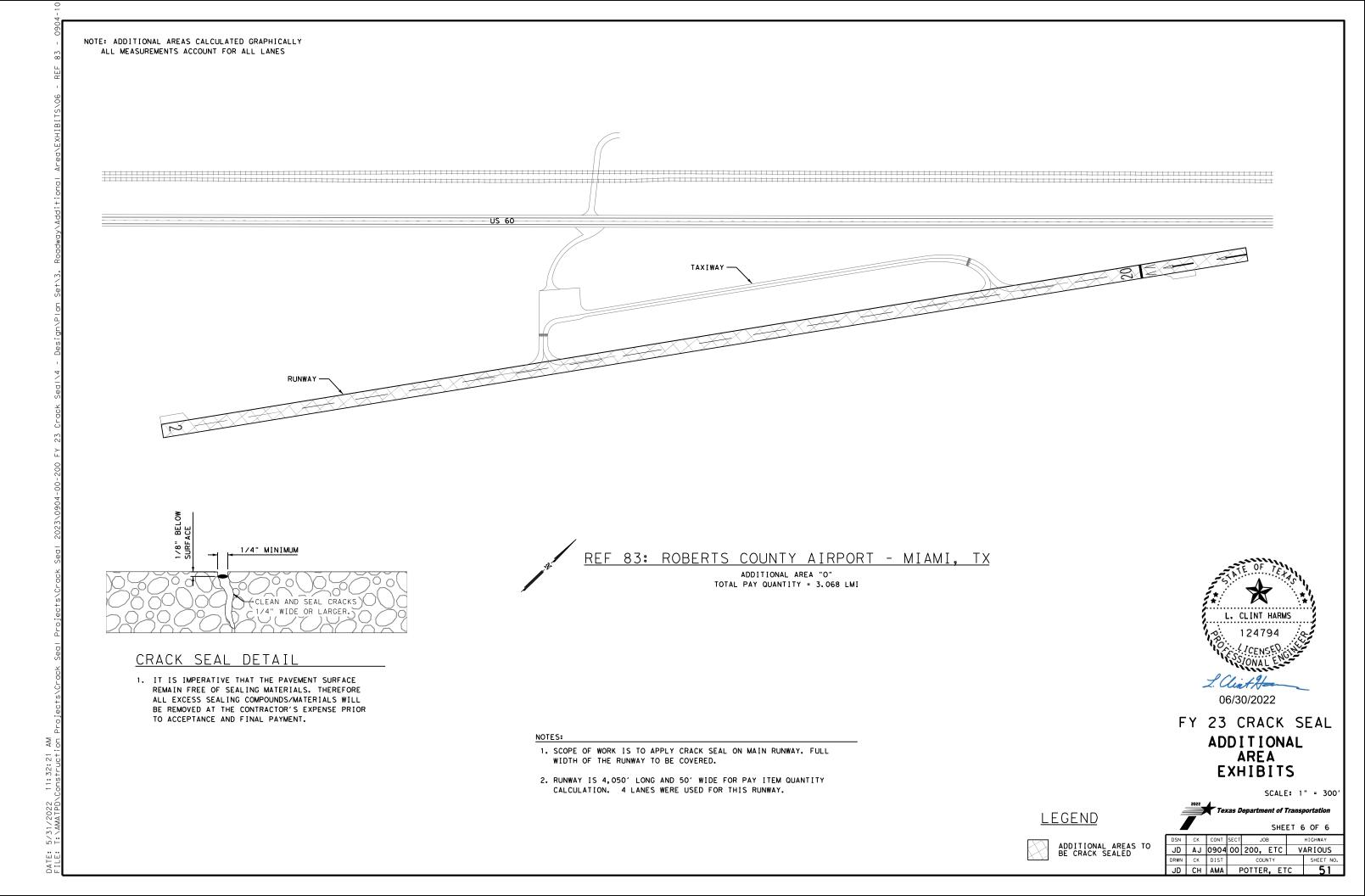


FY 23 CRACK SEAL ADDITIONAL AREA EXHIBITS

SCALE: 1" = 300'

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PROJECT LIMITS: VARIOUS LOCATIONS IN THE AMARILLO DISTRICT

PROJECT DESCRIPTION: CRACK SEAL TYPE OF WORK

MAJOR SOIL DISTURBING ACTIVITIES: NO SOIL TO BE DISTURBED

TOTAL PROJECT AREA: 1,992.59 ACRES

TOTAL AREA TO BE DISTURBED: **O ACRE**

WEIGHTED RUNOFF COEFFICIENT

(BEFORE CONSTRUCTION):_____

(AFTER CONSTRUCTION):_____

EXPLANATION OF THE TECHNICAL BASIS USED TO SELECT THE PRACTICES TO CONTROL POLLUTION WHERE FLOWS EXCEED PRE-DEVELOPMENT LEVELS: N/A

EXISTING CONDITION OF SOIL & VEGETATIVE COVER AND % OF EXISTING VEGETATIVE COVER: N/A

NAME OF RECEIVING WATERS: N/A

EROSION AND SEDIMENT CONTROLS

SOIL STABILIZATION PRACTICES:

- TEMPORARY SEEDING
- PERMANENT PLANTING, SODDING, OR SEEDING
- MULCHING
- SOIL RETENTION BLANKET
- X BUFFER ZONES
- X PRESERVATION OF NATURAL RESOURCES

OTHER:

EROSION AND SEDIMENT CONTROLS (CONT.)

STRUCTURAL PRACTICES:

Permanent	Temporary			
		SILT FENCES	TNCC	ECTION: N/A
		HAY BALES	INSF	ECTION: WE
		ROCK BERMS		
		DIVERSION, INTERCEPTOR, OR PERIMETER DIKES		
		DIVERSION, INTERCEPTOR, OR PERIMETER SWALES	WAST	E MATERIALS:
		DIVERSION DIKE AND SWALE COMBINATIONS		LIDDED METAL
		PIPE SLOPE DRAINS		WASTE MANAGE
		PAVED FLUMES		SITE WILL BE
		ROCK BEDDING AT CONSTRUCTION EXIT		NECESSARY OR
		TIMBER MATTING AT CONSTRUCTION EXIT		A PERMITTED I
		CHANNEL LINERS	НАΖА	RDOUS WASTE (
		SEDIMENT TRAPS		FOLLOWING CAT
		SEDIMENT BASINS		CLEANING MASC
		STORM INLET SEDIMENT TRAP		ADDITIVES FOR
		STONE OUTLET STRUCTURES		IN THE EVENT
		CURBS AND GUTTERS		BE CONTACTED
		STORM SEWERS		SPILL PREVENT
		VELOCITY CONTROL DEVICES		RESPONSIBLE F
		EROSION CONTROL LOGS		POSTED ON SIT
OTHER:				

NARRATIVE - SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES: N/A

STORM WATER MANAGEMENT: _____ DO NOT DISTURB ANY NATURAL AREA OF VEGETATION.

DESCRIPTION OF ANY MEASURES INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL STORM WATER DISCHARGES AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED:

N/A

MAINTENANCE: N/A

MANAGEMEN

OFF	STIF	VEHI

Х
χ

OTHER:

TEMPORARY BRIDGES, MATTING, FALSEWORK,

OTHER EROSION AND SEDIMENT CONTROLS:

F MATERIALS: ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL STATE AND LOCAL CITY SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER, THE DUMPSTER WILL BE EMPTIED AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION, AND THE TRASH WILL BE HAULED TO A PERMITTED LANDFILL. NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE.

RDOUS WASTE (INCLUDING SPILL REPORTING): AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES ARE CONSIDERED TO BE HAZARDOUS: PAINTS, ACIDS FOR CLEANING MASONRY SURFACES, CLEANING SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SOIL STABILIZATION, OR CONCRETE CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS, THE SPILL COORDINATOR SHOULD BE CONTACTED IMMEDIATELY AT (806) 356-3299. THE CONTRACTOR SHALL DEVELOP A SPILL PREVENTION AND RESPONSE PLAN AND SHALL IDENTIFY AND TRAIN PERSONNEL RESPONSIBLE FOR SPILL PREVENTION AND RESPONSE. THE SPILL RESPONSE PLAN WILL BE POSTED ON SITE AND SPILL CLEAN UP MATERIAL WILL BE READILY AVAILABLE ON SITE.

SANITARY WASTE: ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION BY A LICENSED SANITARY WASTE NT CONTRACTOR.

OFF SITE VEHICLE TRACKING:

HAUL ROADS DAMPENED FOR DUST CONTROL LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN EXCESS DIRT ON ROAD REMOVED DAILY STABILIZED CONSTRUCTION ENTRANCE

REMARKS: DISPOSAL AREAS, STOCKPILES, AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT MAY ENTER RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLAND, WATERBODY OR STREAMBED. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS. ALL WATERWAYS SHALL BE CLEARED AS SOON AS PRACTICABLE OF TEMPORARY EMBANKMENT,

PILING, DEBRIS OR OTHER OBSTRUCTIONS PLACED DURING CONSTRUCTION OPERATIONS THAT ARE NOT A PART OF THE FINISHED WORK.



FY 23 CRACK SEAL **TxDOT STORM** WATER POLLUTION PREVENTION PLAN (SW3P)

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DSN	СК	CONT	SECT	JC	B		HIGHWAY
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DRWN	СК	DIST		COL	NTY		SHEET NO.
JD	СН	AMA	F	POTTEI	R, ET	C	52

I. STORMWATER POLLUTION PREVENTION-CLEAN WATER ACT SECTION 402	III. CULTURAL RESOURCES	VI. <u>HAZARDOUS</u>
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. List MS4 Operator(s) that may receive discharges from this project.	Refer to TxDOT Standard Specifications in the event historical issues or archeological artifacts are found during construction. Upon discovery of archeological artifacts (bones, burnt rock, flint, pottery, etc.) cease work in the immediate area and contact the Engineer immediately.	General (appl Comply with the Ha hazardous material making workers awa provided with pers
They may need to be notified prior to construction activities.	No Action Required Required Action	Obtain and keep on
1. Comply with City of Amarillo	Action No.	used on the projec Paints, acids, sol compounds or addit
2.	2.	products which may Maintain an adequa
No Action Required 🛛 Required Action	3.	In the event of a in accordance with
Action No.	IV. VEGETATION RESOURCES	immediately. The C of all product spi
1. Comply with the City of Amarillo MS-4 permit on the following project	Preserve native vegetation to the extent practical.	Contact the Engine
numbers in Potter County: (#52) 0169-02 on US 60, (#53) 0169-01 on US 60, and (#54) 0090-06 on BI-40	Contractor must adhere to Construction Specification Requirements Specs 162, 164, 192, 193, 506, 730, 751, 752 in order to comply with requirements for invasive species, beneficial landscaping, and tree/brush removal commitments.	* Dead or dist * Trash piles, * Undesirable * Evidence of
	No Action Required Required Action	Does the projec
	Action No.	replacements (b Yes
	1.	 If "No", then
		If "Yes", then
	V. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECIES, CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES AND MIGRATORY BIRDS.	Are the results
	No Action Required Required Action	the notificatio
II. WORK IN OR NEAR STREAMS, WATERBODIES AND WETLANDS CLEAN WATER	Action No.	activities as r 15 working days
ACT SECTIONS 401 AND 404	1. Lesser Prairie Chicken: If prairie chickens are observed by	If "No", then
USACE Permit required for filling, dredging, excavating or other work in any water bodies, rivers, creeks, streams, wetlands or wet areas.	construction crews or TxDOT staff during construction, please contact TxDOT Amarillo District environmental staff at	scheduled demol
The Contractor must adhere to all of the terms and conditions associated with	806-356-3249. Providing this information will not cause any project delays. This EPIC will only apply to the following	In either case, activities and/
the following permit(s):	control sections: Lipscomb County (#18) 0030-04 on US 83, (#75) 1339-01, (#76) 1339-02, (#77) 1339-03 all on FM 1454;	asbestos consul
🗙 No Permit Required	Hemphill County (#19) 0030-05 on US 83, (#20) 0798-04 on FM 277, (#21) 2612-01 on FM 2654, (#22) 1999-01 on FM 2124;	Any other evide on site. Hazar
Nationwide Permit 14 - PCN not Required (less than 1/10th acre waters or wetlands affected)	Gray County (#24) 0797-03 on FM 748, (#25) 0797-04 on RM 2857.	No Actio
Nationwide Permit 14 - PCN Required (1/10 to <1/2 acre, 1/3 in tidal waters)	 Bird BMP's: a) Do not disturb, destroy, or remove active nests, including ground nesting birds, during the nesting season; b) 	Action No.
Individual 404 Permit Required	c) do not collect, capture, relocate, or transport birds, eggs,	
Other Nationwide Permit Required: NWP#	young, or active nests without a permit.	1.
Required Actions: List waters of the US permit applies to, location in project and check Best Management Practices planned to control erosion, sedimentation	3. The Migratory Bird Treaty Act of 1918 states that it is unlawful to kill, capture, collect, possess, buy, sell, trade, or transport any migratory bird, nest, young, feather, egg in part or in whole, without a Federal permit issued in accordance within the Act's policies and regulations. In the event that migratory birds are	2. 3. VII. OTHER ENV
and post-project TSS.	encountered on-site during project construction, adverse impacts on protected birds, active nests, eggs, and/or young would be	(includes re
1.	avoided and bridge work would not begin until the young have left the nest.	No Action
The elevation of the ordinary high water marks of any areas requiring work to be performed in the waters of the US requiring the use of a nationwide permit can be found on the Bridge Layouts.		Action No.
Best Management Practices:		1.
Erosion Sedimentation Post-Construction TSS	If any of the listed species are observed, cease work in the immediate area,	2.
Temporary Vegetation Silt Fence Vegetative Filter Strips	do not disturb species or habitat and contact the Engineer immediately. The work may not remove active nests from bridges and other structures during	3.
Blankets/Matting Rock Berm Retention/Irrigation System	ms nesting season of the birds associated with the nests. If caves or sinkholes are discovered, cease work in the immediate area, and contact the	
Mulch Triangular Filter Dike Extended Detention Basin	Engineer immediately.	
Sodding Sand Bag Berm Constructed Wetlands	LIST OF ABBREVIATIONS	
Interceptor Swale Straw Bale Dike Wet Basin Diversion Dike Brush Berms Erosion Control Compost	BMP: Best Management Practice SPCC: Spill Prevention Control and Countermeasure CCP: Construction General Permit SW3P: Storm Water Pollution Prevention Plan	
Unversion Dike Userms Erosion Control Compost Erosion Control Compost Mulch Filter Berm and Socks	DSHS; Texas Department of State Health Services PCN; Pre-Construction Notification	
Mulch Filter Berm and Socks Mulch Filter Berm and Socks Compost Filter Berm and Socks	cks MOA: Memorandum of Agreement TCEQ: Texas Commission on Environmental Quality	
Compost Filter Berm and Socks [] Compost Filter Berm and Socks 🔀 Vegetation Lined Ditches	MS4: Municipal Separate Stormwater Sewer System TPWD: Texas Parks and Wildlife Department	
Stone Outlet Sediment Traps Sand Filter Systems Sediment Basins Grassy Swales	MBTA: Migratory Bird Treaty Act TxDDT: Texas Department of Transportation NOT: Notice of Termination T&E: Threatened and Endangered Species NMP: Nationwide Permit USACE: U.S. Army Carps of Engineers NOT: Notice of Intent USFWS: U.S. Fish and Wildlife Service	

MATERIALS OR CONTAMINATION ISSUES

lies to all projects):

bzard Communication Act (the Act) for personnel who will be working with is by conducting safety meetings prior to beginning construction and are of potential hazards in the workplace. Ensure that all workers are sonal protective equipment appropriate for any hazardous materials used. In-site Material Safety Data Sheets (MSDS) for all hazardous products of, which may include, but are not limited to the following categories: lvents, asphalt products, chemical additives, fuels and concrete curing tives. Provide protected storage, off bare ground and covered, for y be hazardous. Maintain product labelling as required by the Act.

ate supply of on-site spill response materials, as indicated in the MSDS. spill, take actions to mitigate the spill as indicated in the MSDS, n safe work practices, and contact the District Spill Coordinator Contractor shall be responsible for the proper containment and cleanup ills.

eer if any of the following are detected: tressed vegetation (not identified as normal) drums, canister, barrels, etc. smells or odors leaching or seepage of substances

ct involve any bridge class structure rehabilitation or bridge class structures not including box culvertel?

bridge class structures not including box culverts)?

No 🛛

no further action is required. TxDOT is responsible for completing asbestos assessment/inspection.

of the asbestos inspection positive (is asbestos present)?

No No

n TxDOT must retain a DSHS licensed asbestos consultant to assist with on, develop abatement/mitigation procedures, and perform management necessary. The notification form to DSHS must be postmarked at least s prior to scheduled demolition.

TxDOT is still required to notify DSHS 15 working days prior to any lition.

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

ence indicating possible hazardous materials or contamination discovered rdous Materials or Contamination Issues Specific to this Project:

on Required 🛛 🗌 Required Action

RONMENTAL ISSUES

egional issues such as Edwards Aquifer District, etc.)

n Required

Required Action

Design Division Standard Texas Department of Transportation ENVIRONMENTAL PERMITS. ISSUES AND COMMITMENTS EPIC DN: TXDOT CK: RG DW: VP ILE: epic.dgn ск: AR ©⊺xDOT: February 2015 CONT SECT JOB HIGHWAY REVISIONS 0904 00 200, ETC VARIOUS 2-12-2011 (DS) -07-14 ADDED NOTE SECTION IV. DIST SHEET NO. 1-23-2015 SECTION I (CHANGED ITEM 1122 D ITEM 506, ADDED GRASSY SWALES. AMA POTTER, ETC 53

PART 1 - GENERAL

DESCRIPTION 1.01

This project includes construction work within the right of way and/or properties of the Railroad and adjacent to its tracks, wire lines and other facilities. These sheets describe the minimum special requirements for coordination with the Railroad when working upon, over or under Railroad Right of Way or when impacting current or future Railroad operations. Coordinate with the Railroad while performing the work outlined herein, and afford the same cooperation with the Railroad as with TxDOT. Complete all submittals and work in accordance with TxDOT Standard Specifications, Railroad Guidelines and AREMA recommendations as modified by these minimum special requirements or as directed in writing by the Railroad Designated Representative.

For purposes of this project, the Railroad Designated Representative is the person or persons designated by the Railroad Manager of Industry and Public Projects to handle specific tasks related to the project.

1.02 REQUEST FOR INFORMATION / CLARIFICATION

Submit Requests for Information ("RFI") involving work within any Railroad Right of Way to the TxDOT Engineer. The TxDOT Engineer will submit the RFI to the Railroad Designated Representative for review and approval for RFI's corresponding to work within Railroad Right of Way. Allow six (6) weeks total time for review and approval, which includes four (4) weeks for review and approval by the Railroad.

1.03 PLANS / SPECIFICATIONS

TxDOT has received written Railroad approval of the plans and specifications for this project. Any revisions or changes in the plans after award of the Contract must have the approval of TxDOT and the Railroad.

PART 2 - UTILITIES AND FIBER OPTIC

Construct all utility installations in accordance with current AREMA recommendations, Railroad, TxDOT and owning utility specifications and requirements. Railroad general guidelines can be found on the Railroad website or by contacting the Railroad Designated Representative.

PART 3 - CONSTRUCTION

3.01 GENERAL

- A. Perform all work in compliance with all applicable Railroad, Federal Railroad Administration (FRA), and TxDOT rules and regulations. Arrange and conduct work in a manner that does not endanger or interfere with the safe operation of the tracks and property of the Railroad and the traffic moving on such tracks, or the wires, signals and other property of the Railroad, its tenants or licensees, at or in the vicinity of the Work. The safe operation of railroad train movements takes precedence over any work to be performed by the Contractor. The Contractor is responsible for train delay cost and lost revenue claims due to any delays or interruption of train operations resulting from Contractor's construction or other activities.
- B. Construction activities within 15 feet of the operational tracks will only be allowed if absolutely necessary and the Railroad's Designated Representative grants approval. Construction activities within 15 feet of the operational track(s) preferably allow the tracks to stay operational. In such cases, coordination and approval by the Railroad Track Manager is required with regard to schedule, flagging, and slow orders. See Sections 3.07 and 3.08 for additional information.
- C. Provide track protection for all work equipment (including rubber tired equipment) operating within 25 feet from nearest rail. When not in use, keep Contractor machinery and materials at least 50 feet from the Railroad's nearest track.
- D. Vehicular crossings of railroad track are allowed only at existing crossings, or haul road crossings developed with Railroad approval.
- E. The Contractor is also advised that new railroad facilities these facilities are delineated in the plans. Be aware of the limits of responsibilities and coordinate efforts with the Railroad and TxDOT.
- F. Railroad requirements do not allow work within 50 feet of track centers when a train passes the work site and all personnel must clear the area within 50 feet of the track 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 in either direction. Become familiar with the train time, schedules in this location and structure bid assuming intermittent track windows in this period, as defined in Paragraph B that follows.
- B. All railroad tracks within and adjacent to the contract site are active, and rail traffic over these facilities shall be maintained throughout the Project. Activities may include both through moves and switching moves to local customers. raircad traffic and operations will occur continuously throughout the day and night on these tracks and shall be maintained at all times as defined herein. Coordinate and schedule the work so that construction activities do not interfere with railroad operations.
- C. Coordinate work windows with TxDOT and the Railroad's Designated Representative. Types of work windows include Conditional Work Windows and Absolute Work Windows, as defined below:
 - Conditional Work Window: A Conditional Work Window is a period of time that railroad operations have priority over construction activities. When construction activities may occur on and/or adjacent to the railroad tracks within 25 feet of the nearest track, a railroad flag person will be required. At the direction of the railroad flag person, upon approach of a train, and when trains are present on the tracks, the tracks must be cleared (i.e., no construction equipment, materials or personnel within 25 feet, or as directed by the Railroad Designated Representative, from the tracks). Conditional Work Windows are available for the Project.
 - 2. Absolute Work Window: An Absolute Work Window is a period of Absolute work Window: An Absolute work Window is a period of time that construction activities are given priority over railroad operations. During this time frame, the designated railroad track(s) will be inactive for train movements and may be fouled by the Contractor. At the end of an Absolute Work Window, the railroad tracks and/or signals must be completely operational for train operations and all Railroad, Public Utilities Commission (PUC) and FRA requirements, codes and regulations for operational tracks must be satisfied. In the situation where the operating tracks and/or signals have been affected, the Railroad will perform inspections of the work prior to placing that track back into service. Railroad flag persons will be required for construction activities requiring an Absolute Work Window. Absolute Work Windows will not generally be granted. Any request will require a detailed explanation for Railroad review.

3.03 RIGHT OF ENTRY. ADVANCE NOTICE AND WORK STOPPAGES

- A. Do not perform any work within Railroad Right of Way without a valid executed Right of Entry Agreement if required on this project.
- B. Give advance notice to the Railroad as required in the "Contractor's Right of Entry Agreement" before commencing work in connection with construction upon or over Railroad Right of Way and observe the Railroad's rules and regulations with respect thereto.
- C. Perform all work upon Railroad Right of Way in a manner to avoid interference with or endanger the operations of the Railroad. Whenever work may affect the operations or safety of trains, submit the work method to the Railroad Designated Representative for approval. Approval does not relieve the Contractor from liability. Do not commence any work which requires flagging service or inspection service until the flagging protection required by the Railroad is available at the job site. See Section 3.15 for railroad flagging requirements.
- D. Make requests in writing for both Absolute and Conditional Work Windows, at least 30 days in advance of any work. Include in the written request: Exactly what the work entails.

 - 3.
- The days and hours that work will be performed. The exact location of work, and proximity to the tracks. The type of window requested and the amount of time requested.
- The designated contact person.

Provide a written confirmation notice to the Railroad at least 48 hours before commencing work in connection with approved work windows when work is within 25 feet of nearest rail. Perform all work in accordance with previously approved work plans.

E. Make provisions to protect operations and property of the Railroad should . Make provisions to protect operations and property of the Railroad should a condition arising from, or in connection with the work, require immediate and unusual action. If in the judgment of the Railroad Designated Representative such provisions are insufficient, the Railroad Designated Representative may require or provide such provisions as deemed necessary. In any event, such provisions shall be at the Contractor's expense and without cost to the Railroad or TxDOT. The Railroad or TxDOT shall have the right to order the Contractor to temporarily cease operations in the event of an emergency or, if in the opinion of the Railroad Designated Representative, the Contractor's operations could endanger railroad operations. In the event of such an order, immediately notify TxDOT of the order.

INSURANCE 3,04

3.06 COOPERATION

MINIMUM CONSTRUCTION CLEARANCES FOR FALSEWORK AND OTHER 3.07 TEMPORARY STRUCTURES

of construction:

3,08

Do not begin work upon or over Railroad Right of Way until furnishing the Railroad with the insurance policies, binders, certificates and endorsements required by the "Contractor's Right of Entry Agreement", and until the Railroad Designated Representative has advised TxDOT that such insurance is in accordance with the Agreement.

3.05 RAILROAD SAFETY ORIENTATION

A. Complete the railroad course "Orientation for Contractor's Safety", and maintain current registration prior to working on railroad property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

"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."

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

The Railroad will cooperate with Contractor so that work may be conducted in an efficient manner, and will cooperate with Contractor in enabling use of Railroad Right of Way in performing the work.

Abide by the following minimum temporary clearances during the course

A. 15' - 0" (BNSF) (UPRR) and 14'-0" (KCS) horizontal from

centerline of track B. 22' (KCS) and 21' - 6" (UPRR & BNSF) vertically above top of rail.

For construction clearance less than listed above, obtain local Railroad Operating Unit review and approval.

APPROVAL OF REDUCED CLEARANCES

A. Maintain minimum track clearances during construction as specified in Section 3.07.

B. Submit any proposed infringement on the specified minimum clearances to the Railroad Designated Representative through TxDOT at least 30 days in advance of the work. Do not proceed with such infringement without written approval by the Railroad Designated Representative.

C. Do not commence work involving an approved infringement without receiving written assurance from the Railroad Designated Representative that arrangements have been made for any necessary flagging service.

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3.09 MAINTENANCE OF RAILROAD FACILITIES

- A. Maintain all ditches and drainage structures free of silt or other aceas and any other damage within Railroad Right of Way and repair any other damage to the property of the Railroad, or its tenants.
- B. Perform all such maintenance and repair of damages due to the Contractors's operations at Contractor's expense.
- C. Submit a proposed method of erosion control for review by the Railroad prior to beginning any grading on the project site. Comply with all applicable local, state and federal regulations when developing and implementing such erosion control.

3. 10 SITE INSPECTIONS BY RAILROAD'S DESIGNATED REPRESENTATIVE

- A. In addition to the office reviews of construction submittals, Representative at significant points during construction, including the following if applicable:
- Pre-construction meetings.
 Pile driving/drilling of caissons or drilled shafts.
 Reinforcement and concrete placement for railroad bridge
- substructure and/or superstructure.
- Erection of precast concrete or steel bridge superstructure. 4.
- 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 the Railroad Designated Representative, track or other railroad facilities may be subject to settlement or movement.
- C. During any clearing, grubbing, excavation or grading in proximity to railroad facilities, which, in the opinion of the Railroad Designated Representative, may endanger railroad facilities or operations.
- D. During any Contractor's operations when, in the opinion of the Railroad Designated Representative, railroad facilities, including, but not limited to, tracks, buildings, signals, wire lines, or pipe lines, may be endangered.
- E. Arrange with the Railroad Designated Representative to provide the adequate number of flag persons to accomplish the work.

3.12 COMMUNICATIONS AND SIGNAL LINES

If required, the Railroad will rearrange its communications and signal lines, its grade crossing warning devices, train signals and tracks, and facilities that are in use and maintained by the Railroad's forces in connection with its operation at expense of TxDOT. This work by the Railroad will be done by its own forces and it is not a part of the Work words the contract Work under this Contract.

3,13 TRAFFIC CONTROL

Coordinate any operations that control traffic across or around railroad facilities with the Railroad Designated Representative.

3.14 CONSTRUCTION EXCAVATIONS AND BORING ACTIVITIES UNDER TRACK

- A. Take special precaution and care in connection with excavating and shoring. Excavations for construction of footings, piers, columns, walls or other facilities that require shoring shall comply with requirements of TxDOT, OSHA, AREMA and Railroad "Guidelines for Temporary Shoring".
- B. The project plans indicate whether there are fiber optic lines or other such telecommunications systems that require consideration. Regardless, contact the necessary call center to determine if such cable systems are present:

UPRR 1-800-336-9193 7:00 AM to 9:00 PM CST Monday-Friday except holidays, staffed 24 hrs/day for emergencies 48 hrs notice required

BNSF 1-800-533-2891 24 hour number 5 working days notice required

KCS 1-800-344-8377 Texas One Call, a 24 hour number 48 hrs notice required, excluding weekends and holidays

If a telecommunications system is buried anywhere on or near railroad property, coordinate with TxDOT, the Railroad and the Telecommunication Company(ies) to arrange for relocation or protective measures prior to beginning work on or near railroad property. Refer to the project General Notes for additional information.

C. Projects involving a boring or jack and bore operation under track such as drainage pipes or culverts and utilities require an installation plan reviewed and approved by the Railroad and TxDOT prior to proceeding with such construction. A railroad inspector and contractor assisted monitoring of ground and track movement is required to maintain sofe passage of rail traffic. Stop installation and do not allow passage of trains if movements in excess of 1/4 inch vertical or horizontal is detected in the tracks. Immediately repair the damage to the satisfaction of TxDOT and the Railroad before proceeding.

3.15 RAILROAD FLAGGING

Per the Right of Entry Agreement for flagging, notify the Railroad Representative at least 10 working days in advance of Contractor's work and at least 30 working days in advance of any Contractor's work in which any person or equipment will be within 25 feet of nearest rail or as specified in the Contractor Right of Entry (CROE).

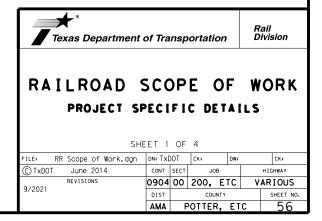
3.16 CLEANING OF RIGHT-OF-WAY

When work is complete, remove all tools, implements, and other materials brought into Railroad Right of Way and leave the right of Way in a clean and presentable condition to the satisfaction of TxDOT and the Railroad.

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	Crossing Type: ** PUBLIC	Crossing Type: <u>** PUBLIC</u> RR Company Owning Track at Crossing: BNSF	
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	Operating RR Company at Track: BNSF	RR MP: 63,580	
	RR MP: 452.900	RR Subdivision: BOISE CITY	
	RR Subdivision: DALHART	City: DUMAS	
	City: TEXLINE	County: MOORE	
	County: DALLAM	CSJ at this Crossing: 1727-02	
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Crossing Type: ** PUBLIC	
RR Company Owning Track at Crossing: BNSF	
Operating RR Company at Track: BNSF	
RR MP: 497.080	
RR Subdivision: PANHANDLE	
City: PAMPA	
County: GRAY	
CSJ at this Crossing: 0560-01	
Highway/Roadway name crossing the railroad: LP 171	
# of regularly scheduled trains per day at this crossing: <u>82</u>	
# of switching movements per day at this crossing: <u>0</u>	
% of estimated contract cost of work within railroad ROW: \$1,2	:00
Scope of Work at this Crossing to Be Performed by State Contro	octor:
STATE CONTRACTOR IS TO CRACK SEAL ROADWAY ON THE	OVERPASS
IN RAILROAD RIGHT-OF-WAY.	
Scope of Work at this Crossing to Be Performed by Railroad Com	
** Choose: Highway Overpass, Highway Underpass, At Grade, Pede	estrion
or Closed/Abandoned	
OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY	(ROW)
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WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT #: 014590P Crossing Type: ** PUBLIC RR Company Owning Track at Crossing: BNSF Operating RR Company at Track: BNSF	DOT *: 0145656 Crossing Type: ** PUBLIC RR Company Owning Track at Crossing: BNSF Operating RR Company at Track: BNSF RR MP: 510.040 RR Subdivision: PANHANDLE City: WHITE DEER	Crossing Type: <u>** PUBLIC</u> RR Company Owning Track at Crossing: <u>BNSF</u>
Crossing Type:+= PUBLIC BMS R Compony downing Track at Crossing: BMS Operating RR Compony of Track BMS Charter Compony Compony of Track BMS Charter Compony Compony of Track BMS Charter Compony Compony of Track BMS Compony Compony Compony Compony of Track BMS Compony Com	Crossing Type: <u>**</u> PUBLIC RR Company Owning Track at Crossing: <u>BNSF</u> Operating RR Company at Track: <u>BNSF</u> RR MP: <u>510.040</u> RR Subdivision: <u>PANHANDLE</u> City: <u>WHITE DEER</u>	RR Company Owning Track at Crossing: BNSF
RR Company function Crossing: BMSF Operating RF Company of the Consel: BMSF BMSF R Met 11:20 BMSF R Subdivision: FAMHARDLE City: AMARTIC City: Multi DEER City: AMARTIC County CMRSM in Problems of the rolling of	RR Company Owning Track at Crossing: BNSF Operating RR Company at Track: BNSF RR MP: 510.040 RR Subdivision: PANHANDLE City: WHITE DEER	
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RR Subdivision: PANAMODE City: MHILD DEEF Country: CARSON Country: CARSON Country: CARSON Country: Carson me crossing: the roll road: EM 2386 e of regularly scheduled trains per day at this crossing: D e of regularly scheduled trains per day at this crossing: D e of regularly scheduled trains per day at this crossing: D e of regularly scheduled trains per day at this crossing: D scope of Work at this Crossing to Be Performed by State Contractors: SIATE CONTRACTOR IS TO CRACK SEAL ROADWAY UP TO THE PANELS IN THE RAILROAD RIGHT-OF-WAY.	City: WHITE DEER	
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CSU of This Crossing: 2722-02 KSJ of This Crossing: The rollroad: FM 2386 e of regularly scheduled trains per day of this crossing: 72 e of regularly scheduled trains per day of this crossing: 0 x of estimated contract cost of work within rollroad R00: 11,200 Scope of Work of this Crossing to Bs Performed by State Contractor: STATE CONTRACTOR IS TO CRACK SEAL ROADWAY UP TO THE PANELS IN THE RAILROAD RIGHT-0F-WAY.		
Highway/Roadway nome crossing the rollroad: PM 2386 # of regularly scheduled trains per day at this crossing: 72		
 	-	Highway/Roadway name crossing the railroad: US 60 WB FR
 e of switching movements per day at this crossing: 0 X of estimated contract cost of work within railroad ROW: \$1,200 Scope of Work at this Crossing to Be Performed by State Contractor: STATE CONTRACTOR IS TO CRACK SEAL ROADWAY UP TO THE PANELS IN THE RAILROAD RIGHT-OF-WAY. Scope of Work at this Crossing to Be Performed by Railroad Company: Scope of Work at this Crossing to Be Performed by Railroad Company: Scope of Work at this Crossing to Be Performed by Railroad Company: Scope of Work at this Crossing to Be Performed by Railroad Company: Scope of Work at this Crossing to Be Performed by Railroad Company: Scope of Work at this Crossing to Be Performed by Railroad Company: Scope of Work at this Crossing to Be Performed by Railroad Company: Scope of Work at this Crossing to Be Performed by Railroad Company: Scope of Work at this Crossing to Be Performed by Railroad Company: Scope of Work at this Crossing to Be Performed by Railroad Company: Scope of Work at this Crossing to Be Performed by Railroad Company: Scope of Work at this Crossing to Be Performed by Railroad Company: Scope of Work at this Crossing to Be Performed by Railroad Company: Scope of Work at this Crossing to Be Performed by Railroad Company: Scope of Work at this Crossing to Be Performed by Railroad Company: Scope of Work at this Crossing to Be Performed by Railroad Company: Scope of Work at this Crossing to Be Performed by Railroad Company: Scope of Work at this Crossing to Be Performed by Railroad Company: Scope of Work at this Crossing to Be Performed by Railroad Company: Scope of Work at this Crossing to Be Performed by Railroad Company: Scope of Work at this Crossing to Be Performed by Railroad Company: Scope	· · · · · <u></u>	
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<pre>*** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian, or Closed/Abandoned I. OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW) work AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT #: 014590P Crossing Type: ** PUBLIC RR Company Wming Track at Crossing: BNSF Operating RR Company at Track: BNSF</pre>		** Chappan Highway Ovarages - Highway Hadagaaas - th Coods - Dedectator
or Closed/Abandoned II. OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW) III. OTHER PROJECT WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT #: 014590P Crossing Type: ** PUBLIC RR Compony Owning Track at Crossing: BNSF Operating RR Company at Track: BNSF Operating RR Company at Track: BNSF	** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian,	
WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT *: 014590P Crossing Type: ** PUBLIC RR Company Owning Track at Crossing: BNSF Operating RR Company at Track: BNSF Operating RR Company at Track: BNSF		
WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT #: 014590P Crossing Type: ** PUBLIC RR Company Owning Track at Crossing: BNSF Operating RR Company at Track: BNSF Operating RR Company at Track: BNSF		
WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT #: 014590P Crossing Type: ** PUBLIC RR Company Owning Track at Crossing: BNSF Operating RR Company at Track: BNSF Operating RR Company at Track: BNSF	I. OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)	III VINEN FRUJEVI NORK WIININ KAILKVAD KIUNIJ-VF-WAI (KUW)
HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT *: 014590P Crossing Type: ** PUBLIC RR Company Owning Track at Crossing: BNSF Operating RR Company at Track: BNSF		
RR Subdivision: PANHANDLE City: AMARILLO County: CARSON County: CARSON CSJ at this Crossing: 0664-02 Highway/Roadway name crossing the railroad: FM 683 # of regularly scheduled trains per day at this crossing: NA # of switching movements per day at this crossing: NA % of estimated contract cost of work within railroad ROW: \$1,200 RR Subdivision: BOISE CITY City: AMARILLO County: POITER CSJ at this Crossing: 0169-02 Highway/Roadway name crossing the railroad: US 60 EB FR # of regularly scheduled trains per day at this crossing: NA % of estimated contract cost of work within railroad ROW: \$1,200	HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT #: 014590P	HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED)
Scope of Work at this Crossing to Be Performed by State Contractor: Scope of Work at this Crossing to Be Performed by State Contractor:	HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT #: 014590P Crossing Type: ** PUBLIC RR Company Owning Track at Crossing: BNSF Operating RR Company at Track: BNSF County: 540.639 RR Subdivision: PANHANDLE City: AMARILLO County: CARSON CSJ at this Crossing: 0664-02 Highway/Roadway name crossing the railroad: FM 683 # of regularly scheduled trains per day at this crossing: 72 # of switching movements per day at this crossing: NA % of estimated contract cost of work within railroad ROW: \$1,200	HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT *: 017163K Crossing Type: ** PUBLIC RR Company Owning Track at Crossing: BNSF Operating RR Company at Track: BNSF Operating RR Company at Track: BNSF RR MP: 1.100 RR Subdivision: BOISE CITY City: AMARILLO County: POTTER CSJ at this Crossing: 0169-02 Highway/Roadway name crossing the railroad: US 60 EB FR * of regularly scheduled trains per day at this crossing: 8 * of switching movements per day at this crossing: 0
IN THE DALL DOAD, DIGHT OF WAY	HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT *: 014590P Crossing Type: ** PUBLIC RR Company Owning Track at Crossing: BNSF Operating RR Company at Track: BNSF Operating RR Company at Track: BNSF Operating RR Company at Track: BNSF County: 540.639 RR Subdivision: PANHANDLE City: AMARILLO County: CARSON CSJ at this Crossing: 0664-02 Highway/Roadway name crossing the railroad: FM 683 * of regularly scheduled trains per day at this crossing: 72 * of switching movements per day at this crossing: NA % of estimated contract cost of work within railroad ROW: \$1,200 Scope of Work at this Crossing to Be Performed by State Contractor:	HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT *: 017163K Crossing Type: ** PUBLIC RR Company Owning Track at Crossing: BNSF Operating RR Company at Track: BNSF R MP: 1.100 RR Subdivision: B0ISE CITY City: AMARILLO County: POTTER CSJ at this Crossing: 0169-02 Highway/Roadway name crossing the railroad: US 60 EB FR * of regularly scheduled trains per day at this crossing: 8 * of switching movements per day at this crossing: 0 % of estimated contract cost of work within railroad ROW: \$1,200 Scope of Work at this Crossing to Be Performed by State Contractor:
IN THE RAILROAD RIGHT-OF-WAY IN THE RAILROAD RIGHT-OF-WAY.	HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT *: 014590P Crossing Type: ** PUBLIC RR Company Owning Track at Crossing: BNSF Operating RR Company at Track: BNSF Operating RR Company at Track: BNSF Crossing: PANHANDLE City: AMARILLO County: CARSON CSJ at this Crossing: 0664-02 Highway/Roadway name crossing the railroad: FM 683 * of regularly scheduled trains per day at this crossing: 72 * of switching movements per day at this crossing: NA % of estimated contract cost of work within railroad ROW: \$1,200 Scope of Work at this Crossing to Be Performed by State Contractor: STATE CONTRACTOR IS TO CRACK SEAL ROADWAY UP TO THE PANELS	HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT *: 017163K Crossing Type:** PUBLIC RR Company Owning Track at Crossing: BNSF Operating RR Company at Track: BNSF RR MP: 1.100 RR Subdivision: BOISE CITY City: AMARILLO County: POTTER CSJ at this Crossing: 0169-02 Highway/Roadway name crossing the railroad: US 60 EB FR * of regularly scheduled trains per day at this crossing: 8 * of switching movements per day at this crossing: 0 % of estimated contract cost of work within railroad ROW: \$1,200 Scope of Work at this Crossing to Be Performed by State Contractor:
Scope of Work at this Crossing to Be Performed by Railroad Company: Scope of Work at this Crossing to Be Performed by Railroad Company:	HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT *: 014590P Crossing Type: ** PUBLIC RR Company Owning Track at Crossing: BNSF Operating RR Compony at Track: BNSF RR MP: 540.639 RR Subdivision: PANHANDLE City: AMARILLO County: CARSON CSJ at this Crossing: 0664-02 Highway/Roadway name crossing the railroad: FM 683 * of regularly scheduled trains per day at this crossing: 72 * of switching movements per day at this crossing: NA % of estimated contract cost of work within railroad ROW: \$1,200 Scope of Work at this Crossing to Be Performed by State Contractor:	HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT *: 017163K Crossing Type:** PUBLIC RR Company Owning Track at Crossing: BNSF Operating RR Company at Track: BNSF RR MP: 1.100 RR Subdivision: BOISE CITY City: AMARILLO County: POTTER CSJ at this Crossing: 0169-02 Highway/Roadway name crossing the railroad: US 60 EB FR * of regularly scheduled trains per day at this crossing: 8 * of switching movements per day at this crossing: 0 % of estimated contract cost of work within railroad ROW: \$1,200 Scope of Work at this Crossing to Be Performed by State Contractor:
	HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT *: 014590P Crossing Type: ** PUBLIC RR Company Owning Track at Crossing: BNSF Operating RR Company at Track: BNSF Coperating RR Company at Track: BNSF Operating RR Company at Track: BNSF Coperating RC company at Track: BNSF County: 540.639 RR MP: 540.639 County: CARSON County: CARSON CSJ at this Crossing: 0664-02 Highway/Roadway name crossing the railroad: FM 683 * of regularly scheduled trains per day at this crossing: 72 * of switching movements per day at this crossing: NA % of estimated contract cost of work within railroad ROW: \$1,200 Scope of Work at this Crossing to Be Performed by State Contractor: STATE CONTRACTOR IS TO CRACK SEAL ROADWAY UP TO THE PANELS IN THE RAILROAD RIGHT-OF-WAY.	HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT *: 017163K Crossing Type: ** PUBLIC RR Company Owning Track at Crossing: BNSF Operating RR Company at Track: BNSF RR MP: 1.100 RR Subdivision: B01SE CITY City: AMARILLO County: POTTER CSJ at this Crossing: 0169-02 Highway/Roadway name crossing the railroad: US 60 EB FR * of regularly scheduled trains per day at this crossing: 8 * of switching movements per day at this crossing: 0 % of estimated contract cost of work within railroad ROW: \$1,200 Scope of Work at this Crossing to Be Performed by State Contractor:
** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian, or Closed/Abandoned ** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian, or Closed/Abandoned	HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT #: 014590P Crossing Type: ** PUBLIC RR Company Owning Track at Crossing: BNSF Operating RR Company at Track: BNSF Operating RR Company at Track: BNSF R MP: 540.639 RR Subdivision: PANHANDLE City: AMARILLO County: CARSON CSJ at this Crossing: 0664-02 Highway/Roadway name crossing the railroad: FM 683 * of regularly scheduled trains per day at this crossing: 72 * of switching movements per day at this crossing: NA % of estimated contract cost of work within railroad ROW: \$1,200 Scope of Work at this Crossing to Be Performed by State Contractor:	HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED) DOT #: 017163K Crossing Type: ** PUBLIC RR Company Owning Track at Crossing: BNSF Operating RR Company at Track: BNSF Operating RR Company at Track: BNSF County: POITER CSJ at this Crossing: 0169-02 Highway/Roadway name crossing the railroad: US 60 EB FR * of regularly scheduled trains per day at this crossing: 0 X of estimated contract cost of work within railroad ROW: \$1,200 Scope of Work at this Crossing to Be Performed by State Contractor: State CONTRACTOR IS TO CRACK SEAL ROADWAY UP TO THE PANELS IN THE RAILROAD RIGHT-OF-WAY.

DOT #: 014801J	
Crossing Type: ** PUBLIC	
RR Company Owning Track at Crossing: BNSF	
Derating RR Company at Track: BNSF	
RR MP: 568, 370	
RR Subdivision: HEREFORD	
City: CANYON	
County: RANDALL	
CSJ at this Crossing: 3527-01	
Highway/Roadway name crossing the railroad: FM 3	331
# of regularly scheduled trains per day at this	
# of switching movements per day at this crossin	
% of estimated contract cost of work within rai	
Scope of Work at this Crossing to Be Performed t	y State Contractor:
STATE CONTRACTOR IS TO CRACK SEAL ROA	DWAY UNDER THE
OVERPASS IN RAILROAD RIGHT-OF-WAY.	
scope of Work at this Crossing to Be Performed b	y Railroad Company:
scope ot Work at this Crossing to Be Performed b	y Railroad Company:
** Choose: Highway Overpass, Highway Underpass,	
** Choose: Highway Overpass, Highway Underpass, or Closed/Abandoned	At Grade, Pedestrian,
** Choose: Highway Overpass, Highway Underpass, or Closed/Abandoned	At Grade, Pedestrian,
** Choose: Highway Overpass, Highway Underpass, or Closed/Abandoned	At Grade, Pedestrian,
** Choose: Highway Overpass, Highway Underpass, or Closed/Abandoned	At Grade, Pedestrian,
** Choose: Highway Overpass, Highway Underpass, or Closed/Abandoned	At Grade, Pedestrian,
** Choose: Highway Overpass, Highway Underpass, or Closed/Abandoned	At Grade, Pedestrian,
** Choose: Highway Overpass, Highway Underpass, or Closed/Abandoned	At Grade, Pedestrian,
** Choose: Highway Overpass, Highway Underpass, or Closed/Abandoned	At Grade, Pedestrian,
** Choose: Highway Overpass, Highway Underpass, or Closed/Abandoned	At Grade, Pedestrian,
** Choose: Highway Overpass, Highway Underpass, or Closed/Abandoned	At Grade, Pedestrian,
** Choose: Highway Overpass, Highway Underpass, or Closed/Abandoned	At Grade, Pedestrian,
	At Grade, Pedestrian,
** Choose: Highway Overpass, Highway Underpass, or Closed/Abandoned	At Grade, Pedestrian,
** Choose: Highway Overpass, Highway Underpass, or Closed/Abandoned	At Grade, Pedestrian,
** Choose: Highway Overpass, Highway Underpass, or Closed/Abandoned	At Grade, Pedestrian,
 * Choose: Highway Overpass, Highway Underpass, or Closed/Abandoned 	At Grade, Pedestrian,

Texas Department of	of Tra	nsp	ortation		Rá Di	ail vision
RAILROAD SCOPE OF WORK PROJECT SPECIFIC DETAILS						
SHEET 2 OF 4						
FILE: RR Scope of Work.dgn	dn: Tx[TOC	СК:	DW:		ск:
CTxDOT June 2014	CONT SECT JOB			HIGHWAY		
REVISIONS	0904	00	200, E	TC	٧٧	RIOUS
9/2021 D1ST COUNTY			SHEET NO.			
	AMA	F	OTTER,	ET	С	57

DOT #: 275228K Crossing Type: ** PUBLIC RR Company Owning Track at Crossing: BNSF Operating RR Company at Track: BNSF RR MP: 319.040 RR Subdivision: RED RIVER VALLEY City: CLAUDE County: ARMSTRONG CSJ at this Crossing: 2218-02 Highway/Roadway name crossing the railroad: FM 2373 * of regularly scheduled trains per day at this crossing: 30 * of switching movements per day at this crossing: 0 % of estimated contract cost of work within railroad ROW: \$1,200 Scope of Work at this Crossing to Be Performed by State Contractor: 	
RR Company Owning Track at Crossing: <u>BNSF</u> Operating RR Company at Track: <u>BNSF</u> RR MP: <u>319.040</u> RR Subdivision: <u>RED RIVER VALLEY</u> City: <u>CLAUDE</u> County: <u>ARMSTRONG</u> County: <u>ARMSTRONG</u> CSJ at this Crossing: <u>2218-02</u> Highway/Roadway name crossing the railroad: <u>FM 2373</u> # of regularly scheduled trains per day at this crossing: <u>30</u> # of switching movements per day at this crossing: <u>0</u> % of estimated contract cost of work within railroad ROW: <u>\$1,200</u> Scope of Work at this Crossing to Be Performed by State Contractor: <u>STATE CONTRACTOR IS TO CRACK SEAL ROADWAY UP TO THE PANELS</u>	
Operating RR Company at Track: <u>BNSF</u> RR MP: <u>319.040</u> RR Subdivision: <u>RED RIVER VALLEY</u> City: <u>CLAUDE</u> County: <u>ARMSTRONG</u> County: <u>ARMSTRONG</u> County: <u>ARMSTRONG</u> County: <u>ARMSTRONG</u> County: <u>ARMSTRONG</u> County: <u>ARMSTRONG</u> and this crossing: <u>2218-02</u> Highway/Roadway name crossing the railroad: <u>FM 2373</u> # of regularly scheduled trains per day at this crossing: <u>30</u> # of switching movements per day at this crossing: <u>0</u> % of estimated contract cost of work within railroad ROW: <u>\$1,200</u> Scope of Work at this Crossing to Be Performed by State Contractor: <u>STATE CONTRACTOR IS TO CRACK SEAL ROADWAY UP TO THE PANELS</u>	
RR Subdivision: <u>RED RIVER VALLEY</u> City: <u>CLAUDE</u> County: <u>ARMSTRONG</u> CSJ at this Crossing: <u>2218-02</u> Highway/Roadway name crossing the railroad: <u>FM 2373</u> # of regularly scheduled trains per day at this crossing: <u>30</u> # of switching movements per day at this crossing: <u>0</u> % of estimated contract cost of work within railroad ROW: <u>\$1,200</u> Scope of Work at this Crossing to Be Performed by State Contractor: 	
City: CLAUDE County: ARMSTRONG CSJ at this Crossing: 2218-02 Highway/Roadway name crossing the railroad: FM 2373 # of regularly scheduled trains per day at this crossing: <u>30</u> # of switching movements per day at this crossing: <u>0</u> % of estimated contract cost of work within railroad ROW: \$1,200 Scope of Work at this Crossing to Be Performed by State Contractor: STATE CONTRACTOR IS TO CRACK SEAL ROADWAY UP TO THE PANELS	
County: <u>ARMSTRONG</u> CSJ at this Crossing: <u>2218-02</u> Highway/Roadway name crossing the railroad: <u>FM 2373</u> # of regularly scheduled trains per day at this crossing: <u>30</u> # of switching movements per day at this crossing: <u>0</u> % of estimated contract cost of work within railroad ROW: <u>\$1,200</u> Scope of Work at this Crossing to Be Performed by State Contractor: STATE CONTRACTOR IS TO CRACK SEAL ROADWAY UP TO THE PANELS	
CSJ at this Crossing: <u>2218-02</u> Highway/Roadway name crossing the railroad: <u>FM 2373</u> # of regularly scheduled trains per day at this crossing: <u>30</u> # of switching movements per day at this crossing: <u>0</u> % of estimated contract cost of work within railroad ROW: <u>\$1,200</u> Scope of Work at this Crossing to Be Performed by State Contractor: 	
 # of regularly scheduled trains per day at this crossing: 30 # of switching movements per day at this crossing: 0 % of estimated contract cost of work within railroad ROW: \$1,200 Scope of Work at this Crossing to Be Performed by State Contractor: STATE CONTRACTOR IS TO CRACK SEAL ROADWAY UP TO THE PANELS 	
<pre># of switching movements per day at this crossing: 0% % of estimated contract cost of work within railroad ROW: \$1,200 Scope of Work at this Crossing to Be Performed by State Contractor:STATE CONTRACTOR IS TO CRACK SEAL ROADWAY UP TO THE PANELS</pre>	
Scope of Work at this Crossing to Be Performed by State Contractor: STATE CONTRACTOR IS TO CRACK SEAL ROADWAY UP TO THE PANELS	
STATE CONTRACTOR IS TO CRACK SEAL ROADWAY UP TO THE PANELS	
IN THE RAILROAD RIGHT-OF-WAY.	
Cance of Wark at this Creasion to De Derformed by Deilsend Composit	
Scope of Work at this Crossing to Be Performed by Railroad Company:	
** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian,	
or Closed/Abandoned	
I. OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)	

Texas Department of	of Tra	nsp	ortatior	,	Rail Division
RAILROAD SCOPE OF WORK PROJECT SPECIFIC DETAILS					
FILE: RR Scope of Work.dgn	DN: Tx[)0T	СК:	DW:	CK:
C TxDOT June 2014	CONT	SECT	JOB		HIGHWAY
REVISIONS	0904	00	200, E	тс	VARIOUS
9/2021	DIST	COUNTY			SHEET NO.
	AMA	F	OTTER,	ET	c 58

* of Days of Railroad Flagging Expected: 11	Type of Insurance	Amount of Coverage (Minimum)			
On this project, night or weekend flagging is:	Workers Compensation	\$500,000 / \$500,000 / \$500,000			
X Expected	Commercial General Liability				
Not Expected		\$2,000,000 / \$4,000,000			
Flagging services will be provided by:	Business Automobile	\$2,000,000 combined single limit			
☐ Railroad Company: TxDOT will pay flagging invoices ⊠ 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.	_	otective Liability			
Contact Information for Flagging:	Not Required				
UPRR - UP.info@railpros.com	🛛 Non - Bridge Projects	\$2,000,000 / \$6,000,000			
Call Center 877-315-0513, Select #1 for flagging	Bridge Projects	\$5,000,000 / \$10,000,000			
- UP.request@nrssinc.net Call Center 877-984-6777					
	0ther				
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	VI. CONTRACTOR'S RIGHT OF	ENTRY (ROE) AGREEMENT			
- Bottom Line On-Track Safety Services	On this project, an ROE agree	ement is:			
bottomline076@aol.com, 903-767-7630	Not Required				
OTHERS					
	Required: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3)				
	Required: UPRR Maintenance Con:	sent Letter. TxDOT CST to assist.			
Contractor must incorporate Construction Inspection into anticipated construction schedule.	Required: Contractor to obtain (see Item 5, Article 8.4)				
Not Required	With the following railro	ad companies:			
Required: Contact Information for Construction Inspection:	the State and Railroad, see:	ROE Agreement templates agreed upon between			
	http://www.txdot.gov/inside-1	txdot/division/rail/samples.html			
	Approved ROE Agreement templo	ates are not to be modified by the Contractor.			
V. CONSTRUCTION WORK TO BE PERFORMED BY THE RAILROAD	Construction & Maintenance Ag	within Railroad Right of Way without an executed greement between the State and the Railroad and tween the Contractor and the Railroad if required			
On this project, construction work to be performed by a railroad company is:					
Required					
Not Required					
Coordinate with TxDOT for any work to be performed by the Railroad Company.	VII. RAILROAD COORDINATIO				
TxDOT must issue a work order for any work done by the Railroad Company prior to the work being performed.	On this project, a Railroad	Coordination Meeting is:			
	Not Required				
V. RAILROAD INSURANCE REQUIREMENTS	See Item 5, Article 8.1 for	more details.			
Railroad reference number shall be provided by TxDOT CST or DO.	VIII. SUBCONTRACTORS				
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		ract work without written consent of TxDOT. to maintain the same insurance coverage			
Insurance policies must be issued for and on bendit of the kaliroda, 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.	as required of the Contracto				
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.					

ENCY NOTIFICATION

use of Railroad Emergency BNSF Railway Railroad Emergency Line ut 800-832-5452				
ion: DOT 274838P lepost 452.900	DALHART Subdivision			
ion: DOT 017072E lepost 63.580	BOISE CITY Subdivision			
ion: DOT 017071X lepost 63.580	BOISE CITY Subdivision			
ion: DOT 016609L lepost 1.480	PAMPA INDUSTRY Subdivision			
ion: DOT 014541T lepost 497.080	PANHANDLE Subdivision			
ion: DOT 014565G lepost 510.040	PANHANDLE Subdivision			
ion: DOT 014590P lepost 540.639	PANHANDLE Subdivision			
ion: DOT 017164S lepost 1.120	BOISE CITY Subdivision			
ion: DOT 017163K lepost 1.100	BOISE CITY Subdivision			
ion: DOT 014801j Tepost 568.370	HEREFORD Subdivision			
ion: DOT 275228K lepost 319.040	RED RIVER VALLEY Subdivision			

