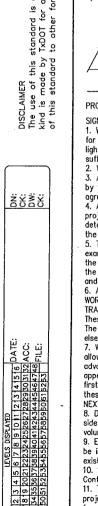
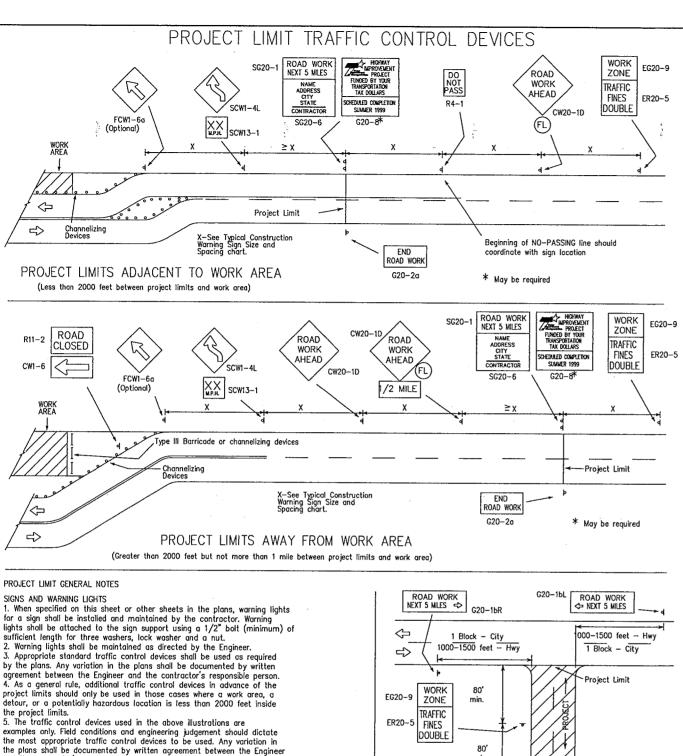


S iš





examples only. Field conditions and engineering judgement should dictate the most appropriate traffic control devices to be used. Any variation in the plans shall be documented by written agreement between the Engineer

and the contractor's responsible person.

6. As detailed above, the ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK signs shall be erected at or near the project limits and the WORK ZONF TRAFFIC FINES DOUBLE sign shall be erected in advance of the project limits. These signs should be adjusted to provide adequate spacing to other signs. The OBSERVE WARNING SIGNS STATE LAW sign shall be installed when required elsewhere in the plans.

elsewhere in the plans.

7. With the agreement of an adjacent project Engineer, the Engineer(s) may allow the omission of END ROAD WORK, TRAFFIC FINES DOUBLE, and other advance warning signs if the signing would be redundant and the work areas appear continuous to the motorists. If the adjacent project is completed first, the contractor will erect the necessary warning signs as shown on these sheets, the TCP sheets or as directed by the Engineer. The ROAD WORK NEXT X MILES sign shall be revised to show appropriate work zone distance. 8. Duplicate construction warning signs should be erected on the median side of divided highways where median width will permit and traffic

volumes justifies the signing.

9. Except for devices required by Note 6, traffic control devices should be in place only while work is actually in progress or a definite need

10. Sign size should be based on the "Texas Manual on Uniform Traffic Control Devices for Streets and Highways" (TMUTCD).

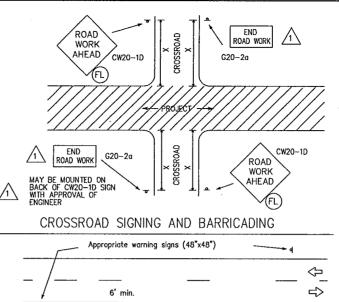
11. The Special Public Information sign (G20-8 shall be installed at the

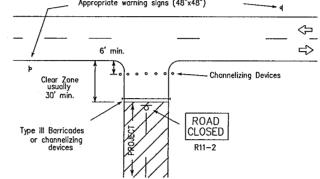
project limits when required elsewhere in the plans. Refer to SMD Standards for approved mounting details.

min. END ROAD WORK G20-20 ROAD WORK NEXT 5 MILES HIGHWAY IMPROVEDIENT PROJECT FUNDED BY YOUR TRANSPORTATION TAX DOLLARS SG20-6 * May be required SCHEDULED COMPLETIO CONTRACTOR SUMMER 1999 G20-8

PROJECT LIMITS AT T-INTERSECTION

- 1. The ROAD WORK NEXT X MILES sign should be erected on the intersected highway as detailed above.
- 2. On the intersected roadway, additional traffic control devices, such as a flagger and accompanying signs or other signs, should be used when work is being performed at or

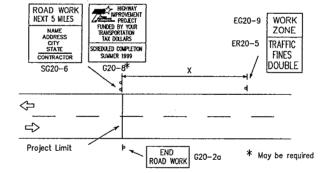




PROJECT LIMITS FOR CLOSED ROADWAY Barricades shall be erected completely across roadway. Channelizing Devices

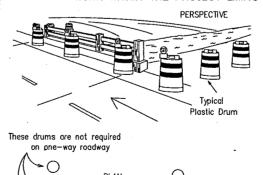
may be drums, vertical panels or cones as specified in the plans.

SG20-1



PROJECT LIMITS AWAY FROM WORK AREA (Greater than 1 mile between project limits and work area)

CULVERT WIDENING OR OTHER ISOLATED WORK WITHIN THE PROJECT LIMITS



0-0-0-0

 \bigcirc

O *

0

- 1). Where positive redirectional capability is provided, drums
- 2). Plastic construction fencing may be used with drums for safety as required in the plans.
- 3). Vertical Panel on flexible support may be substituted for drums when shoulder width is less than 4'.
- 4). When shoulder width is greater than 12', steady-burn lights may be omitted, if drums are used.

Increase number of plastic drums or side of approaching traffic if crown width makes it necessary. (minimum of 2 and maximum of 4 drums)

* Approx. 8' to 10' (maximum) spacing between drums

CROSSROAD SIGNING AND BARRICADING

To Except as noted elsewhere in plans, the usual minimum signing on a cross-road approach should be one CW20-1D ROAD WORK AHEAD sign and G20-2a END ROAD WORK sign. Where speeds and volumes are relatively low, a smaller ROAD WORK

AHEAD sign may be used.

When approved by the Engineer, on low volume crossroads, advance warning signs may be the reduced size 36" x 36" ROAD WORK AHEAD (CW20-1D) sign mounted back to back with the reduced size 24" x 18" END ROAD WORK (SG20-2a) sign. See the "STANDARD HIGHWAY SIGN DESIGNS for TEXAS" manual and BC(9) thru BC(9c) for sign design details. On low volume crossroads, advance signing may be omitted if approved by the Engineer.

Additional signs such as FLAGGER AHEAD, LOOSE GRAVEL, or other appropriate

signs may be required. When additional signs are required, such signs will be considered part of the minimum requirements.

- 2. The G20—1a sign shall be required on major crossroads to advise motorists of the length of construction in either direction from the intersection.

 3. On higher volume crossroads additional traffic control devices may be noted elsewhere in the plans.
- 4. When work occurs in the intersection area, appropriate traffic control devices shall be in place

Warning lights shall meet the requirements of the "Texas Manual on Uniform

Traffic Control Devices for Streets and Highways."

Flashing and Steady-Burn Warning Lights shall NOT be installed on

Type A-Low Intensity Flashing Warning Lights are commonly used with signs. They are intended to warn of an approaching potentially hazardous area. Their use shall be as indicated on this sheet and/or other sheets of the plans by the designation "(FL)".

Type-C Steady Burn Lights are intended to be used in a series for delineation to supplement other traffic control devices. Their use shall be as indicated on this sheet and/or other sheets of the plans by the designation "(SB)".

TYPICAL CONSTRUCTION WARNING SIGN SIZE AND SPACING

AND SPACING												
Roadway Classl— fication	Posted Speed	Sign A Spacing "X"	Long-term Or Intermediate-term Stationary Approach Warning Signs CW20 Series And CW22-1 Sign		Short-term S O Short Du Approach Sigr CW21 S	Other Warning Signs						
	мрн	Feet (Apprx.)	Standard inches	Minimum ⁴ inches	Standard Inches 7	Minimum 4 inches 7	Standard mm 7					
Conven.	30	120	48 x 48	36 x 36	30 x 30	24 x 24	30 x 30					
l ı	35	160			36 x 36	or 30 x 30	or 26 x 36					
	40	240		₩	ļ 1	4						
	45	320			1							
	50	400		Use Standard		Use Standard						
	55	500 ²		Size	4	Size	₩					
1	60	600 ²		1	48 x 48		48 x 48					
	65	700 ²					j					
₩	70	800 ²			↓	₩	4					
Exp or Frwy	*	* 3	1	+	**	**	**					

- st For typical sign spacings on expressways and freeways, see TMUTCD typical application diagrams or TCP Standard Sheets.
- △ Minimum distance from work area to 1st Advance Warning sign and/or distance between
- ** Smaller sign sizes may be used where sign designs have not been included in the "Standard Highway Sign Designs for Texas" manual.
- General Notes:

 1. Special or larger size signs may be used as may be 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. For use only an secondary roads or city streets where speeds are low.
- Only diamond shaped warring sign sizes are indicated.
 See sign size listing in TMUTCD, Appendix A for complete list of all available sign design sizes.
 Where two sizes are listed, see sign size listing in TMUTCD, Appendix A for proper size.

Only pre-qualified products shall be used. A list of complian Only pre-qualified products shall be used. A list of compliant products and their sources may be obtained by writing or faxing: Standards Engineer Traffic Operations Division — TE Texas Department of Transportation 125 East 11th Street Austin, Texas 78701-2483 Phone (512) 416-3335 Fox (512) 416-3161 E-mail TRF-STANDARD@mailaw.dot.state.tx.us



BARRICADE AND CONSTRUCTION **STANDARDS**

ADVANCE SIGNING CROSSROAD SIGNING WARNING LIGHTS

BC(1) - 98

©Tx00T	Feburary	1998	DN:-LR	ox:−DTN	DR-DN	ox:-GB	NEG NO.:	1
REVISIONS	STATE DESIRACT	FEDERAL RECKN		FEDERAL AID PRO	SHEET	7		
	DALLAS	6		CM 97 (4	62	Ъ.		
		cou	KTY	CONTRO	DL SECTION	JOB	HIGHWAY	
		DAL	LAS	805	0 18	034	BELT LINE	- [위