TITLE SHEET
TYPICAL SECTIONS & MAINT. AGREEMENT
ESTIMATE & QUANTITY
LAYOUT OF BASE MATERIAL PIT
LAYOUT LOOP 12 & U.S.T.S INTERCHANGE
SUGGESTED JOINT ARRANGEMENT LAYOUT
TRANSITION, T & N.O. R.R. OVERPASS
TURNOUTS
LAYOUT TEMPORARY CONNECTION WITH US 175
CONCRETE CURB DETAILS
CPD-51-1 (MOD.)
CPJ-51-2 (MOD.)
BASC-40

RR-8
SWC-39
8W-4G, 1 & 2
M-47

STATE OF TEXAS STATE HIGHWAY DEPARTMENT

PLANS OF PROPOSED STATE HIGHWAY IMPROVEMENT

FEDERAL AID PROJECT. NO. F-1089 (6) STATE LOOP 12 DALLAS COUNTY FROM U.S. HWY. NO. 75 TO U.S. HWY. NO. 175

Field Change No.1 Use D-14t Star Lugs for Transvers of Instead of Bar Dowels set up on

Field Change No. Z

Apply Prime Coat MC-1 at rate of 6.25 Galassy width of & feet on all 10 feet 10

Net Length of Project = 18,542.86ff = 3.51/ Mi.

Rural Length = 8,070.67 Ft = 1.528 Mi.

Municipal Length = 10,472.19 Ft = 1.383 Mi.

U.S. 75 Overpass - Sta 81+47.62 to 83+39.12 181.50
T.E.N.O. R. R. Overpass - Sta 31+03.05 to 34+14.5 \$5.50'
Trinity River Bridge - Sta 18163.58 to 127+12 181.58
Relief Br. No. 1 - Sta 131+39.25 to 140+00 50
Relief Br. No. 2 - Sta 152+00. to 154+00 70+181

EQUATIONS:

Sta 201+50 Back = Sta. 202 +00-Find. Sta 282+20.4 Back = Sta. 281+98.5 Find. Total

DELIVERY POINTS FOR MATERIALS Railroad Dist from Proj. Car Co

Elam Rack Switch

Specifications adopted by the State Highway Dept. of Texas January 2. 1951 and approved by the U.S. Bureau of Public Roads July 25, 1951 and specification Items listed and dated as follows shall govern on this project.

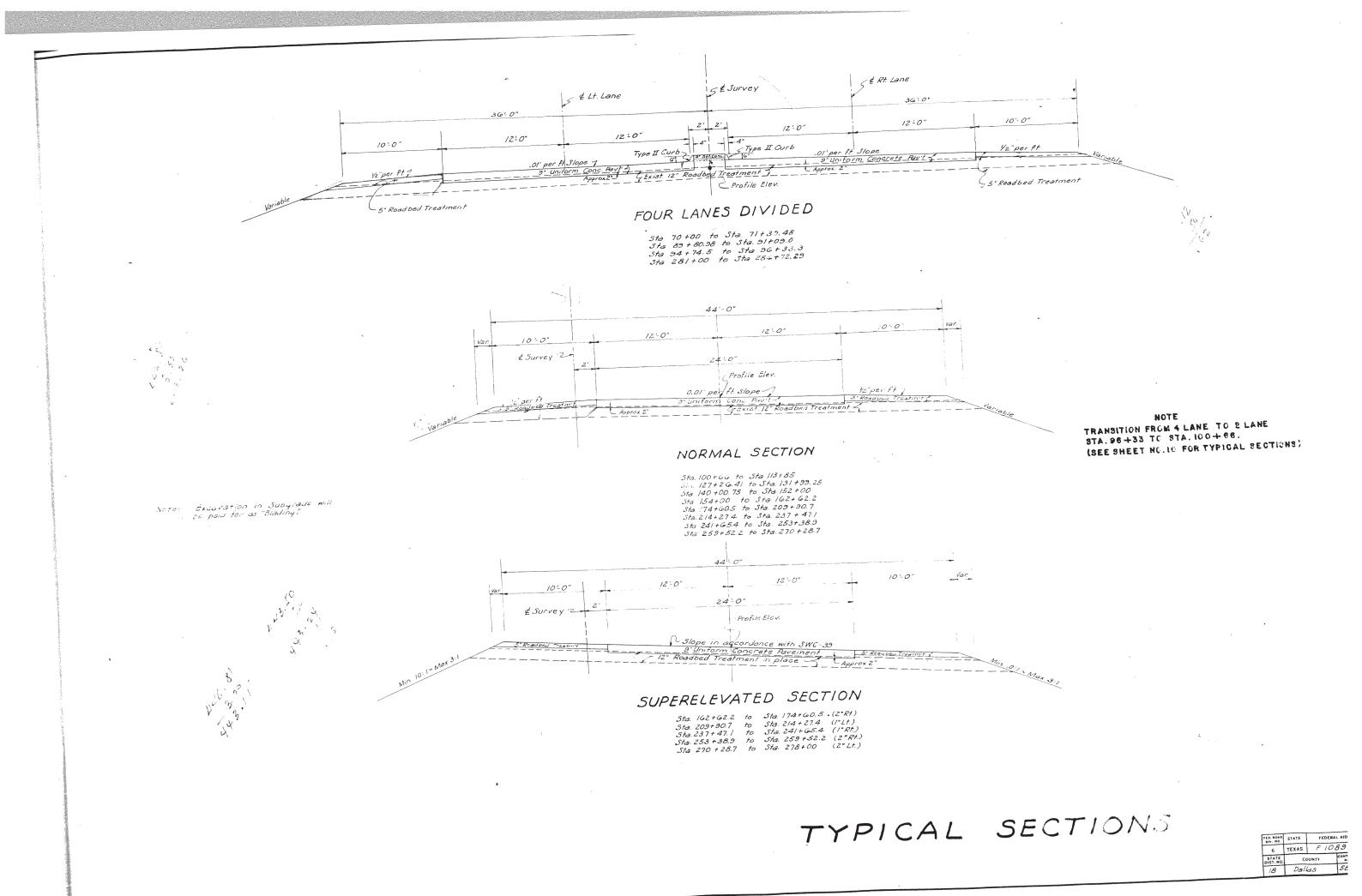
*Required Contract Provisions for Federal Aid Projects approved August 5, 1948."

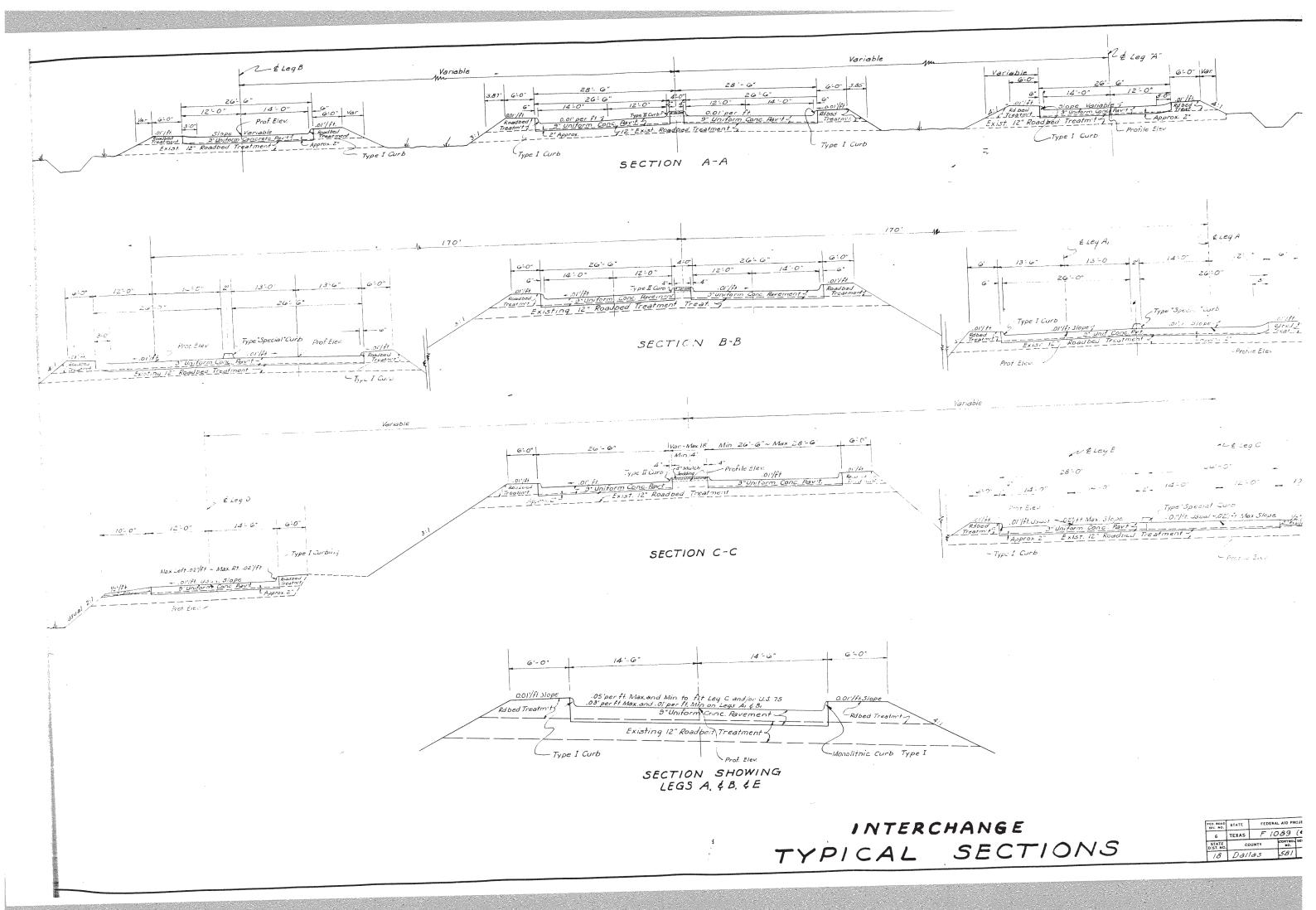
Federal Project Markers of approved design will be erected at each end of Project prior to Completion.

Note: Barricades A" with Signs B-1, B-2, B-4, 6 B-7 to be placed

as snown.
Barricades "C" and "E" to be placed at all street and road intersections as directed by the Engineer.

ha J. Clarke





5 & SURVEY Min. 130' Maintenance Responsibilities of City of Dellas Maintenance Responsibilities of the State Highway Department. Side Slopes, Ditches, Back Slopes Drainage Strs, Driveways, Sidewalks, etc Maintenance Responsibilities of City of Dallas Side Slopes, Ditches, Back Slopes Drainage Strs.
Driveways, Sidewalks etc 9" Uniform Conc. Pavit. Maintenance of all drainage channels and outfall ditches will be the responsibility of the City of Dallas Maintenance of all drainage channels and out fall ditches will be the responsibility of the City of Dallas. SECTION SHOWING THE RESPECTIVE MAINTENANCE

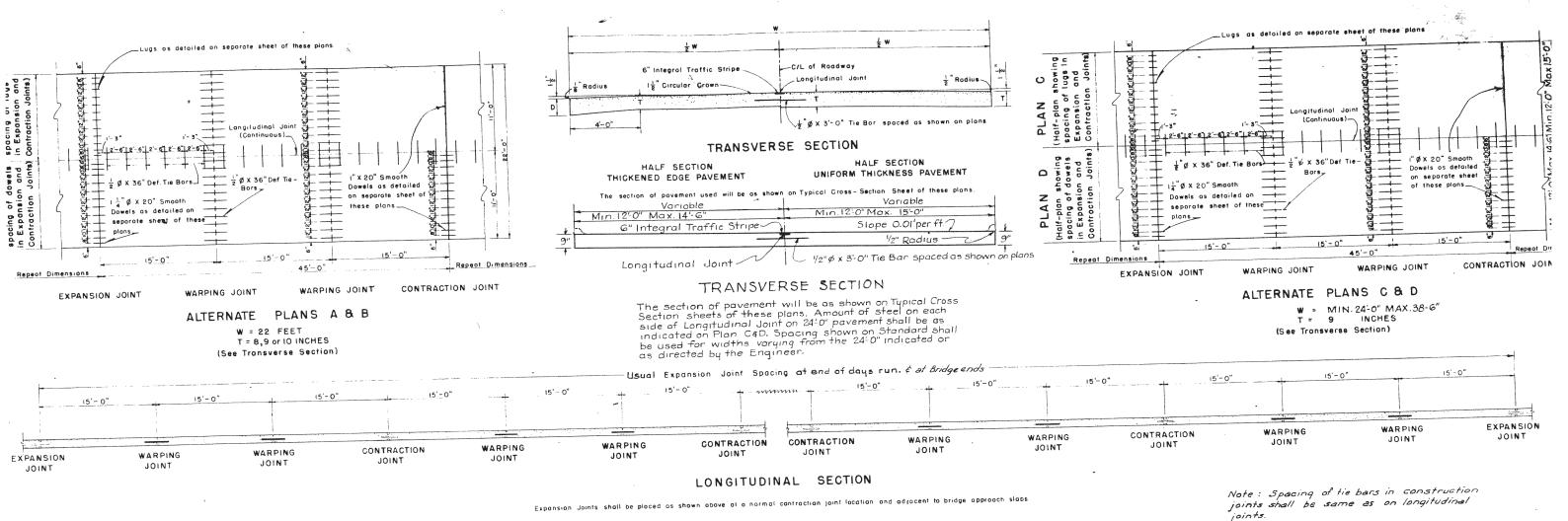
RESPONSIBILITIES OF THE STATE HIGHWAY DEPARTMENT AND THE CITY OF DALLAS ON LOOP 12 FROM STA. 179+72 TO STA. 284+72.29

Note: The construction between Sta 281+00 and Note: The construction between Sta. 281+00 and Sta. 284+72. 29 consists of a Four Lane Divided Roadway. Between these limits maintenance responsibility of the State Highway Department shall be from Crown Line to Crown Line and the responsibility of the City of Dallas shall be all other area within the limits of the Right-of Way.

> 17. L.c. 19 51 APPROVED: CITY MANAGER OF DALLAS, TEXAS

MAINTENANCE AGREEMENT

		Name of the Owner of the Owner, where		
FED HOAD	STATE	FEDER	AL AID P	
6	TEXAS	F.	108	
STATE DIST. NO.	cc	DUNTY	CONTRO	
18		LLAS	581	
 1/0				



TABLES OF REINFORCING STEEL FOR 45' TYPICAL SLABS

	TYPE OF JOINT			TOTAL	* WT. PER	DED /	PER	PFR	PER	WT. PER S.Y TOTAL STEEL BASED ON USE			
PVT.			LONGITUDINAL		WT.	S.Y.			EXPAN.	JOINT	OF STAR LUGS		
WIDTHS	NO.	SIZE	WT.	NO.	SIZE	WT.			Thide	JOINT		-	
		1/2Ø×36	96.19	18	1/2¢x 36	36.07	132.26	1.102	\8/	26	26	26	1.372/
24'-0"		-		18	11	11	132.26	1.087	1/8/	26	26	26	1.354
24'-4"	48	11	96.19				140.28	1.079	20	28	28	28	1.336
26'-0"	52	- 0	104.21	18	11	11		1.059	2/1	29	29	29	1.3/4.4
26'-6"	52	н	104.21	18	/1	11	140.28	1		29	29	29	1.527
26'-10"	52	11	104.21	18	11	**	140.28	1.046	71				1.349
		1,	108.22	18	11	it	144.29	1.069	PI	29	29	29	
27'-0"	54	+			"	4	144.29	1.049	122	30	30	30	/1.337
27'-6"	54	- 11	108.22		 "		148.29	1.023	1/22	30	30	30	1.296
29'-0"	56	10	112.22	18	te	14			+/	\		42	1.446
38'-6"	76	11	152.30	36	11	72.14	224.44	1.166	/ 29	42	42	1 42	V 1.245

FOR INFORMATION OF BIDDERS

Approx. Length of Joints Length Longit Joints = 26,110 Ft. Approx. Total Total Length Const. Joints = 4,190 Ft. Approx. Length Contr. Joints = 16,700 Ft Approx. Joints = 31,520 Ft. Approx. Total Length Warp.

* Weights shown do not include load transfer devices at expansion and contraction joints.

GENERAL NOTES.

Contraction Joints shall be constructed in accordance with the governing details in these plans.

At each bridge end construct a thickened and reinforced approach slab as detailed on other sheet in these plans. Additional work, concrete and steel shall be included in unit price bid for "Concrete Pavement"

Pavement on all curves shall be superelevated and widened as indicated on the governing Departmental Curve Standards. On widened curves, the longitudinal joint shall be placed at the center of the pavement.

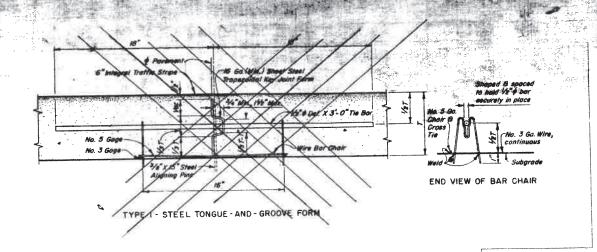
The furnishing of all material and the installation of all reinforcing steel, tie bars, joints, including load transmission units or dowels and sleeves, and all dowel or bar chairs, shall be subsidiary work and shall be included in the unit price bid for "Concrete Pavement."

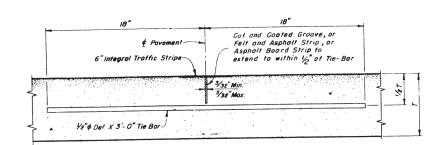
Integral Traffic Stripes shall be applied as required by plans and governing specifications. Provisions for use of this patented installation have been made by the State free of royalty charges to the Contractor.

> The Contractor shall hold and save the State, its officers, its agents, and its employees harmless to liability of any nature or kind, including casts and expenses, for or an account of any patent or unpatented invention, article or appliance manufactured or used in accordance with the details of these plans.

TEXAS HIGHWAY DEPARTME CONCRETE PAVEME DETAILS SLABS 9*

0 654 1-19	1059		C.P.D
Revised Jan. 18-	FED. SOAD	STATE	FEDERAL AID PROJECT NO
ENGINEER ROAD DESIGN	6	TEXAS	F 1089 (6)
REVISED	<u> </u>	-	



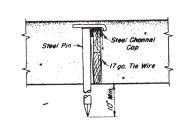


TYPE 2-MACHINE CUT GROOVE

Top groove shall be cut by an approved machine and the vertical faces of the concrete coated with an approved concrete curing compound before closing and final finishing, or a Vie asphalt impregnated felt strip shall be inserted, continuous between expansion joints, or an asphalt board strip held in an approved continuous metal shield, shall be placed continuously in a groove cut in the concrete by an approved mechanical device operated in advance of the langitudinal float. The strips or groove shall be true to line, vertical, and of the depth shown. Tie bars shall be installed as in Type I, or accurately placed in position on the screeded concrete by means of an approved template and forced to the proper position with a suitable tool

ALTERNATE TYPES OF LONGITUDINAL JOINTS

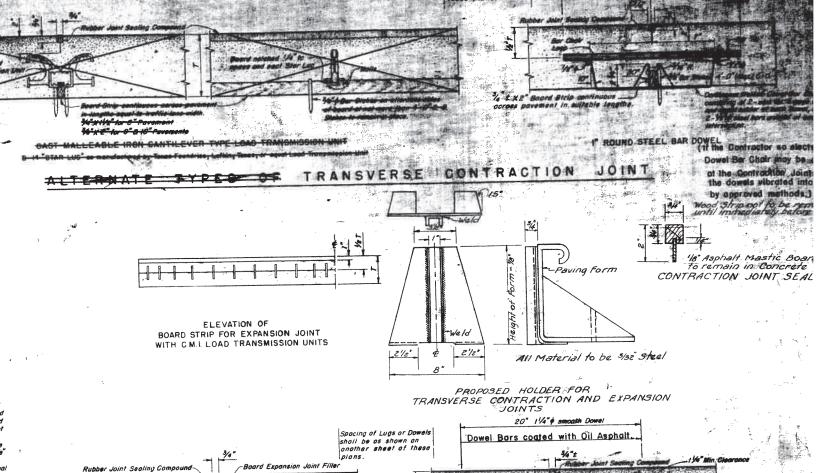
TYPE A



INSTALLING PIN FOR EXPANSION JOINT

pard Joint Filler of specified type shall be secured Board Joint Filler of specified type shall be secured or subgrade in exact position and line as illustrated or by other approved device. Pins shall be removed after passage of finishing machine, then povement resurfaced by seeond pass of finishing machine. After second passage of finishing machine remove concrete to 1" below top of board and noil 3/4 X/2" wood strip to top or board filler to form joint seal space. Replace concrete and finish with longitudinal than I he wood to strip shall not be removed until space. Replace concrete and finish with langitudina float. The wood top strip shall not be removed until

TYPE B



CAST MALLEABLE IRON
CANTILEVER TYPE LOAD TRANSMISSION UNIT D-13 "STAR LUG" as manufactured by Texas Foundries, Lufkin, Texas or equal Load Transmission Unit

Soft wood block filler to

ALTERNATE TYPES OF TRANSVERSE

11/4" ROUND STEEL BAR DOWEL

EXPANSION JOINTS

21/2" for 8"510b 3" for 9" & 10" 510b 2" for 8" Slub 21/2" for 9" 8 10" Slob Board Strip placed and removed as noted 13/32" Min. 5/32" Max. 1/2" \$ Def. X 3'-0" Tie Bar. Wood Strip 3/4" X 1"

The ¾"X I" Wood Strip as shown for Type A shall be continuous for width of povement, and shall be securely fastened to the subgrade by 40-penny wire nails driven through drilled holes on not more than 30" centers. Tie Bars shall be placed occurately in position, after screeding, by means of an approved template. The transverse finishing machine shall pass over the joint area after installing the bars.

Type A, ½" X 2" or ½" Metal Strip -- Cut top surface of concrete directly over wood strip and insert metal strip after screeding and in advance of longitudinal float. After longitudinal float has passed over, remove steel plate prior to finishing.

Type B, Ashall Board Strip -- Asphall board strip, held in an approved continuous metal shield, shall be placed continuously in a groove cut by an approved mechanical device operating in advance of the longitudinal float.

ALTERNATE TYPES OF TRANSVERSE WARPING JOINTS

GENERAL NOTES

Contractor. If the Contractor desires to use any other atternate device, he shall, prior to its use, secure

Load Transmission Units or Dowels shall be secured parallel to the pavement surface and center line. All Joints, including all materials, devices, and work required shall be considered subsidiary work and shall be included in the unit price bid for "Concrete Pavement." No direct payment will be made for any

moverial, par chair, steel, or any other device shown, nor for its installation.

"T" indicates center depth of microned edge parements or begin of uniform povements.

Expansion Joints will be required only at each of any of any and at its ridge ends.

Longitudinal Joint Type ? shall be used on this project with no afternate.

The Contractor shall install sufficient states braces, brackets or other devices as necessary to keep Expansion and Contraction Joints true to required lines and grades and shall leave in place such a these devices as is natessary to keep joints in this position.

The Contractor shall hold and save the State, its officers and its employees harmless to liability of any nature or ain costs and expenses, for or on account of any patent or unprinted in article or appliance manufactured or used in account the details of these plans.

Continuous Welded Dowel Bar Cheir consisting of 2-wire No. cheir and dowel holder at each dowel, and 2-1/2" steel is welded at each intersection.

TEXAS HIGHWAY DEPARTMENT CONCRETE PAVEMENT JOINT DETAILS SLABS

Either of the alternate types of Joints shown by these details may be constructed, at the option of the its approval by the Engineer.

material, bar chair, steel, or any other device shown, nor for its installation.