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CULVERT LAYOUTS

BRIDGE LAYOUTS

STATE OF TEXAS STATE HIGHWAY DEPARTMENT

US90 , Z8-13-1

PLANS OF COMPLETED STATE HIGHWAY IMPROVEMENT

5-INLET DETAILS STRUCTURAL DETAILS AND STANDARDS—

6-CONCRETE PAVEMENT DETAILS (46-1)

7-CONCRETE JOINT DETAILS (46-2)

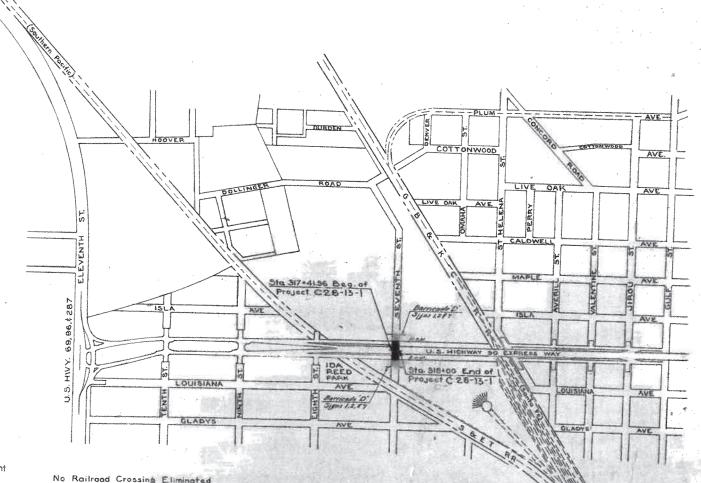
8-9-B. W.-46(1) 8 (2)

U.S.90 STATE PROJECT C28-15-1

SCALES: PROFILE: 1 IN. HOR. = 100 FT. 1 IN. VEST. = 10 FT. CROSS-SECTIONS: 1 IN. HOR. AND VEST. = 15 FT. OTHERS AS NOTED.

NET LENGTH OF PROJECT = 58.04 FT.=0.011 MI.

JEFFERSON COUNTY 7TH. STREET IN BEAUMONT CONCRETE PAVEMENT DRAINAGE & SIDEWALK



Specifications adoped by the State Highway Department of Texas January 2,1951 and approved by The Bureau Of Public Roads July 25, 1951 and Specifications Items listed and dated as follows shall govern on this Project. Special Labor Provisions for Texas Highway Projects Adopted Aug. 11-1949

No Railroad Crossing Eliminated No Equations No Exceptions

MATERIAL DELIVERY POINTS DEL PT RR DIST CAR Beaumont TENO. 10 Ample Begument K.C.S. LO Ample

LAYOUT SCALE: 1 IN. - 500 FT.

Jinal Plans

Project Constructed and Final Plans prepared by:

Rec. for Approvor

Approved

AU9.16 1051 Abslummer Mayor, City of Beaumont.

STATE HIGHWAY DEPARTMENT







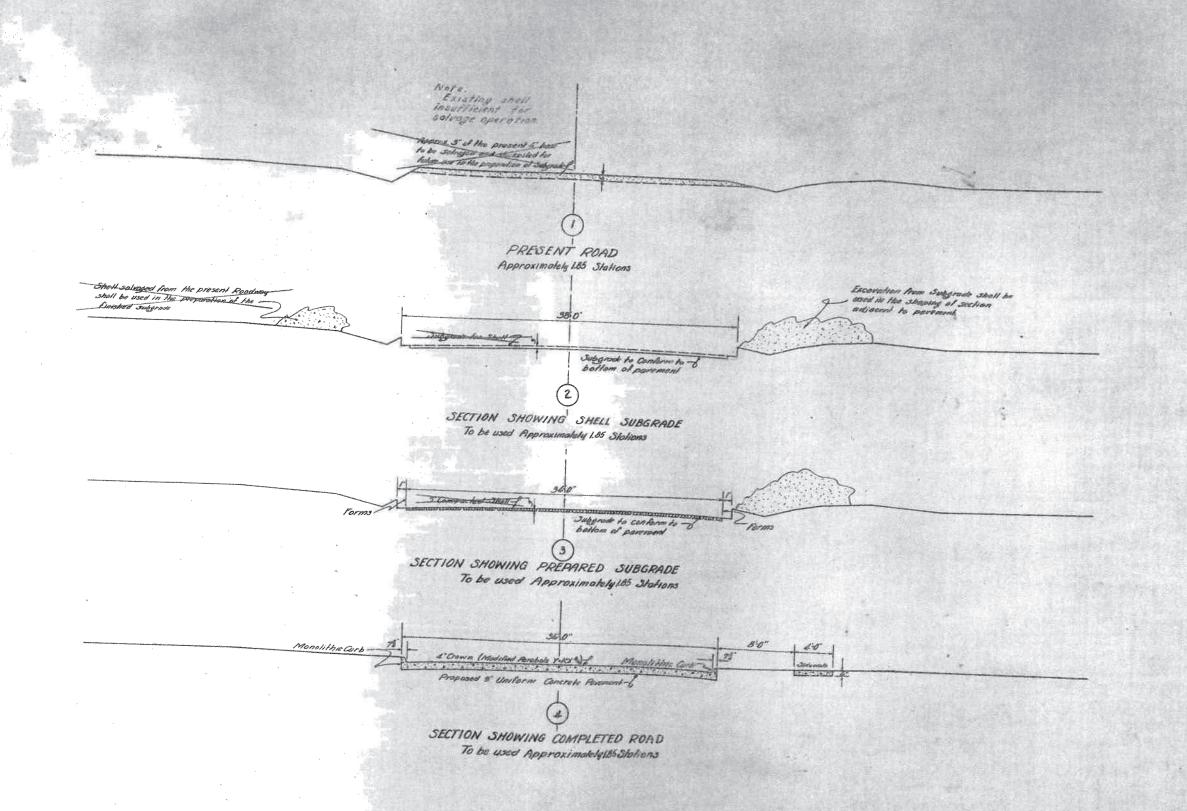
CONVENTIONAL SIGNS

STATE OR NATIONAL LINE

CITY OR VILLAGE LINE

BASE OR SURVEY LINE RIGHT OF WAY LINE RIGHT OF WAY MARKERS

FENCE LINE RAILROAD TRAVELLED WAY CULVERT OR BRIDGE



GENERAL NOTES

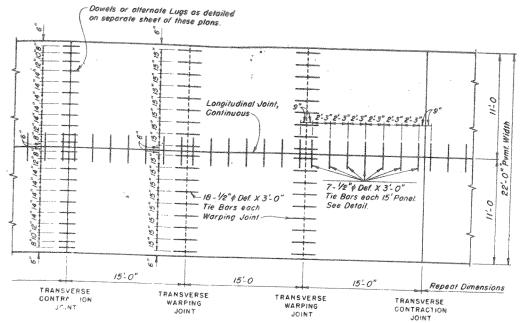
for spacing of toppitudinal Joints see sheets No. 6 Expansion Joints shown on Sheets No. 7

See Concrete parament details.

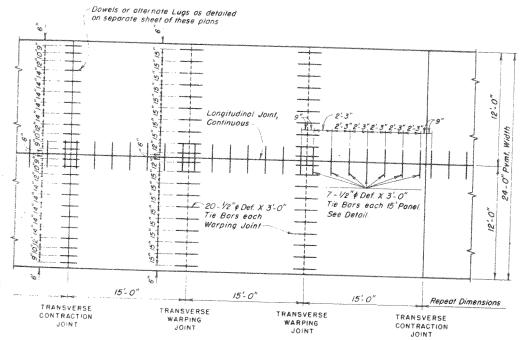
Sheet No. 6 for spacing of the
bars at lengthedmal and worping

Joints

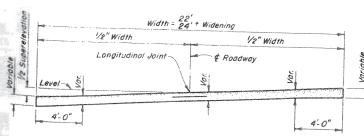
TYPICAL CROSS SECTIONS



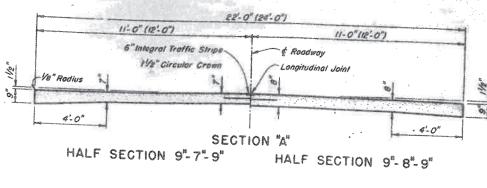
PLAN VIEW 22'- 0" PAVEMENT - 7" OR 8" SECTION SEE SECTION "A"

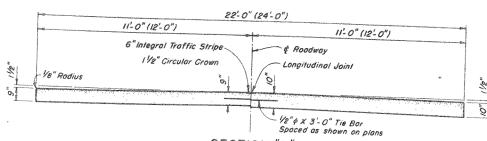


PLAN VIEW 24'- 0" PAVEMENT - 7" OR 8" SECTION SEE SECTION "A"



TYPICAL SECTION OF PAVEMENT ON SUPERELEVATED AND WIDENED CURVES Pavement on all curves shall be superelevated and widened as indicated on the governing Departmental Curve Standards.





SECTION "B" 9" HALF SECTION - UNIFORM THICKNESS - 10" HALF SECTION

GENERAL NOTES:

45'-0"

15-0"

15'-0"

JOINT

CONTRACTION

Contraction Joints shall be constructed in accordance with the governing details in these plans. Expansion Joints shall be constructed in accordance with the governing details in these plans. Expansion Joints shall be placed adjacent to bridge approach slabs, and when required by these plans or special provision, shall be spaced as required at a normal contraction joint location, and 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."

"Concrete 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

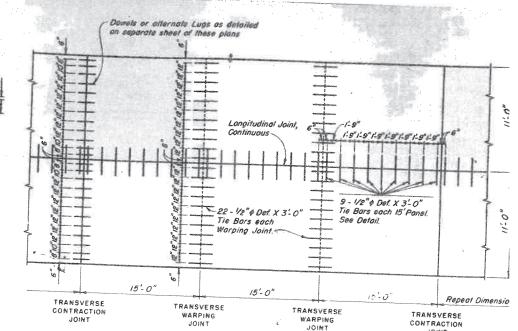
The Contractor shall hold and save the State, its officers, its agents, and its employees harmless to liability of any nature or kind, including costs and expenses, for or on account of any potent or unpatented invention, article or appliance manufactured or used in accordance with the details of these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

The section of pavement used will be as shown on Typical Cross Section Sheet of these plans.

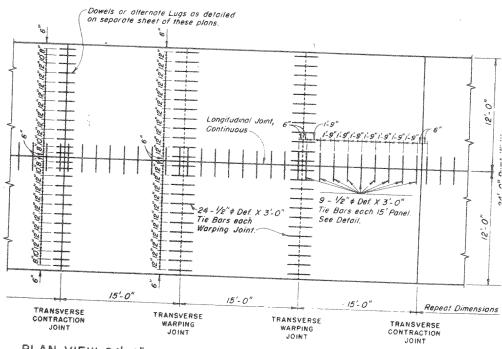
TABLE OF REINFORCING STEEL QUANTITIES

| Fach 45 | Trained Clab | | **** | 0 | PANTITIES | , | |
|------------------------|------------------------------------|----------------------------|------|-----|--|-----|----------|
| Each 45' Typical Slab: | | "7" or 8" Slab | | b. | 9" or 10" Slab | Lb. | |
| Warping Joint | 22'-0" Section | 2 @ 18 - 1/2" Def. X 3'-0" | 72 | | 2 @ 22-1/2" # Def. X 3'-0" | | T |
| Tie Bars | 24'-0" Section | 2@ 20-1/2" Det. x 3'-0" | | 20 | | 88 | <u> </u> |
| Joint | 22'-0" Section | | | 00 | 2@24-1/2" # Def. x 3'-0" | | 96 |
| | 0 00011011 | 21 - 1/2" & Def. X 3'-0" | 42 | | 27-1/2" & Def. X 3'-0" | 54 | |
| | 24'-0"Section | 21-1/2" # Def. x 3'-0" | | 42 | Brown Commission of the Commis | | - |
| Lb./sq.yd. of | Typical 45'Slab | | 114 | 122 | | | 54 |
| | 22'-0"Section - 24'-0"Section - | 1.036 | | - | 1.291 | 142 | 150 |

Steel quantities are for information of bidders. No direct payment will be made for reinforcing steel. Refer



PLAN VIEW 22'-0" PAVEMENT - 9" OR 10" UNIFORM THICKNESS SEE SECTION "B"



PLAN VIEW 24'-0" PAVEMENT - 9" OR 10" UNIFORM THICKNESS

CONTRACTION

TEXAS HIGHWAY DEPARTMENT CONCRETE PAVEMENT DETAILS

7"-8"-9"-10" SLABS 22' AND 24' WIDTHS

DESIGN NO. 46-1

| ENGINEER OF HOAD DESIGN | THE ROAD | STATE | FEDERAL AND PROJECT NO. | | | |
|-------------------------|--------------------|-------|-------------------------|----|---------|-----|
| ISED: | 6 | TEXAS | | | | |
| , | BEATE DEST, NO. | 60 | OURTY EMITME | | SECTION | 796 |
| | 20 | 16/1 | ecson. | 20 | 19 | 1 |

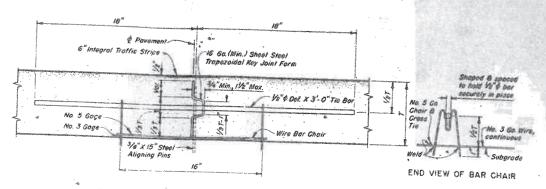
CONTRACTION WARPING JOINT JOINT TYPICAL LONGITUDINAL SECTION

15-0"

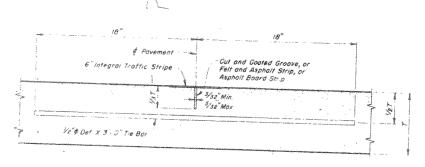
45'-0"

15'-0"

15:0



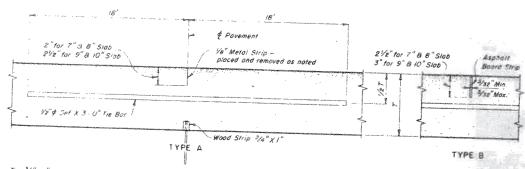
TYPE I - STEEL TONGUE - AND - GROOVE FORM



TYPE 2 - MACHINE OUT GROOVE

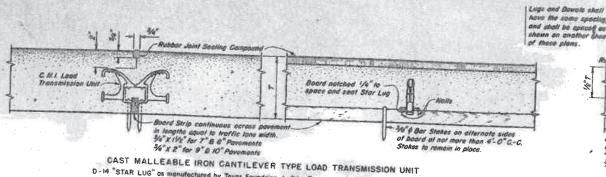
Top grove shall be cut by an approved machine and the vertical laces of the concrete coated with an upproved concrete cut in j compaund before closing and final finishing, or of eshpolit impregnated feel stip shall be inserted, continuous between expansion joints, or an asphall board strip held in an approved mechanical are ce operated in advance of the longitudinal float. The strips or groove shall be true to line, vertical, and of the depit shown. The bars shall be installed as in Type i, or occurately position with a switable four.

ALTERNATE TYPES OF LONGITUDINAL JOINTS'



The ½"x1" Wood Strip as shown for Type A sholl be continuous for width of povement, and sholl be securely fostened to the subgrade by 40-penny were nails driven impough drilled holes on not more than 30" centers. The Bars sholl be placed accurately in position, after screeding, by means of an opproved template. The transverse finishing machine sholl pass over the joint area after installing the bars. Type A, ½"x 2" or 2½" Metal Strip --- Cut top surface of concrete directly over wood strip and insert metal strip after screeding and in advance of type B, Asphall 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

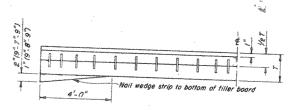


D-14 "STAR LUG" as manufactured by Texas Foundries, Lufhin, Texas, or equal Load Transmission Unit

26"-1%" \$ smeath Down! 121/2" 131/2" 16"Donet Coating (red lead and ail) E150 4'-0" (May >0-Board Strip continuous across pavement in suitable lengths. 3/4" ± X 1 1/2" for 7" & 6" Pymts. consisting of 2 - wire No. 6 and dowel holder at each a 2 - ½" & steel bors welded interesting 1/4" 1 X 2" for 9" & 10" Pymts.

14" ROUND STEEL BAR DOWEL

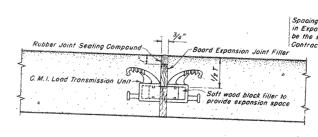
ALTERNATE TYPES OF TRANSVERSE CONTRACTION



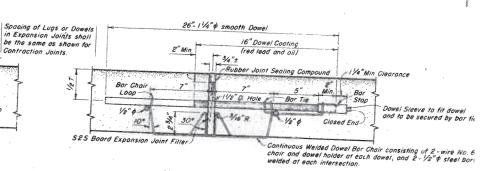
ELEVATION OF BOARD STRIP FOR EXPANSION JOINT WITH C.M.I. LOAD TRANSMISSION UNITS NOTE: Wedge to be used on all Expansion and Contraction Joints in thickened-edge povement.

Wood Strip not to be removed nediately before sealing /a" Asphalt Mostic Board

CONTRACTION JOINT SEAL FORM



CAST MALLEABLE IRON
CANTILEVER TYPE LOAD TRANSMISSION UNIT D-13 "STAR LUG" as manufactured by Texas Foundries, Lufsin, Texas



11/4" ROUND STEEL BAR DOWEL

ALTERNATE TYPES TRANSVERSE EXPANSION JOINTS

GENERAL NOTES

17 go. Tie Wire

INSTALLING PIN FOR EXPANSION JOINT

Board Joint Filler of specified type shall be secured on subgrade in exact position and line as illustrated or by other approved device. Pins shall be removed after passage of finishing machine, then pavement resurfaced by secand pass of finishing machine remove after, second passage of finishing machine remove concrete to it below top of board and noil 3/4.7/6 wood strip to top of board filler to form joint seal space. Replace concrete and finish with longitudinal float. The wood top strip shall not be removed until immediately prior to pouring joint seal.

Either of the alternate types of Joints shown by these details may be constructed, at the option of the Contractor. If the Contractor desires to use any other alternate 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 material, bar chair, steel, or any other device shown, nor for its installation. "T" indicates center depth of thickened -edge pavements or depth of uniform pavements

the desired

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

TEXAS HIGHWAY DEPARTMENT CONCRETE PAVEMENT JOINT DETAILS 7"-8"-9"-10" SECTIONS

DESIGN NO. 46-2

| APPROVED: | · | Minches | | | | |
|-------------------------|------------------------|-------------|----------|-------------|---|---|
| ENGINEER OF ROAD DESIGN | PED, HOAR DIST. HO. | STATE FEDER | AL AID P | BOJEC" I | v dř. | T |
| | 6 | TEXAS | | | *************************************** | ٢ |
| • | DIST. HD | COUNTY | CONTROL | SECTION NO. | 208 80. | t |
| | 20 | Jefferson | 28 | 13 | 7 | t |