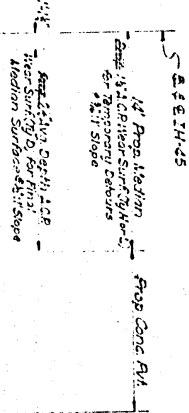


⑤
TYPICAL MAINLANE WIDENING
SECTION FOR 56FT PROP PAV AT BRIDGE PROJECT
(Showing Median Modification)

NOTE:
Modify Median Slope Asph Sub Base Depth and Asph Conc Pav of
Typical Section No. 3 Median between the following Stations:
Typical Section ③
Left of Sta 560100 to Sta 564169
Right of Sta 560100 to Sta 564169

* Remove portion of detour ACB near Surf (Tg Hor L) as required
to maintain a minimum depth of 1" for the final median surface
ACB near Surf (Tg D). Removal of detour ACB as required shall
be considered incidental to various bid items.



④
TYPICAL MAINLANE SECTION
AT BRIDGE FOR S&S CURVES & FM 1765
(Showing Median Modification)

NOTE:
Modify Median Slope Asph Sub Base Depth and Asph Conc Pav of
Typical Section No. 4 Median between the following Stations:
Typical Section ④

Left of Sta 564169 to Sta 567196
Right of Sta 564169 to Sta 567196

TYPICAL SECTION ③

Left of Sta 567196 to Sta 567436
Right of Sta 567196 to Sta 567436

③
TYPICAL MAINLANE HIGHFILL SECTION
AT FM 1765
(Showing Median Modification)

- SYMBOL LEGEND
- ① Prop Asphalt Surface Treatment
 - ② Prop Asphalt Surface
 - ③ Prop Asphalt Surface
 - ④ Prop Asphalt Surface
 - ⑤ Prop Asphalt Surface
 - ⑥ Prop Asphalt Surface
 - ⑦ Prop Asphalt Surface
 - ⑧ Prop Asphalt Surface
 - ⑨ Prop Asphalt Surface
 - ⑩ Prop Asphalt Surface
 - ⑪ Prop Asphalt Surface
 - ⑫ Prop Asphalt Surface
 - ⑬ Prop Asphalt Surface
 - ⑭ Prop Asphalt Surface
 - ⑮ Prop Asphalt Surface
 - ⑯ Prop Asphalt Surface
 - ⑰ Prop Asphalt Surface
 - ⑱ Prop Asphalt Surface
 - ⑲ Prop Asphalt Surface
 - ⑳ Prop Asphalt Surface
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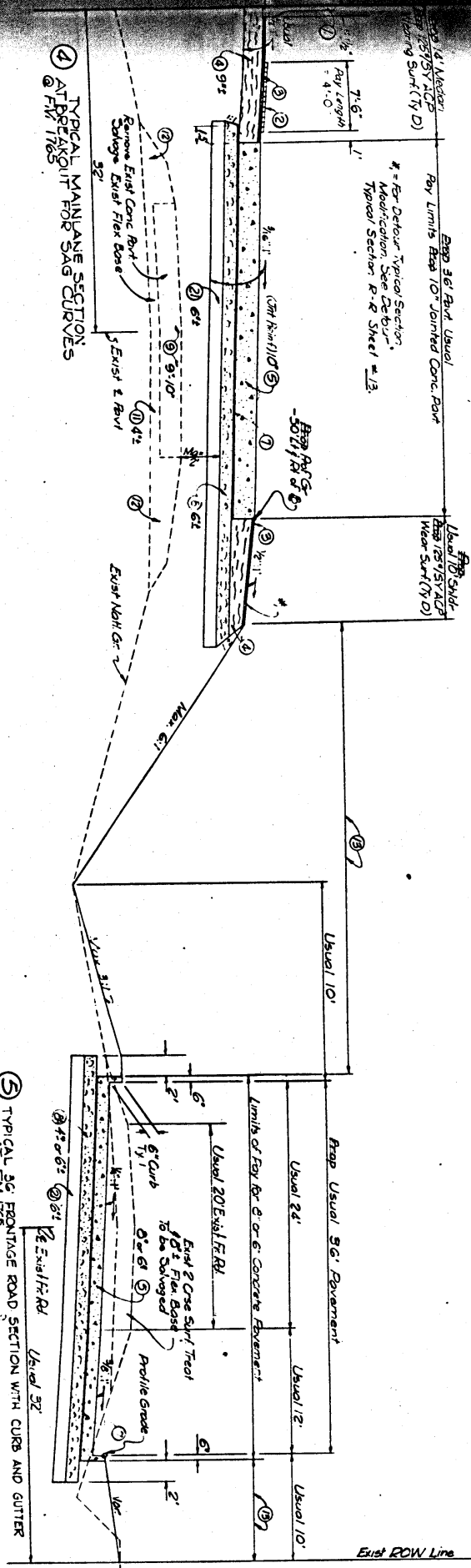
TYPICAL SECTIONS

FIELD CHANGE NO. 3

Sketch No. 15
To Accompany Field Change No. 3
1445 Project 145-1C5001
Control 500-4-56
Galveston County

1 & 1145

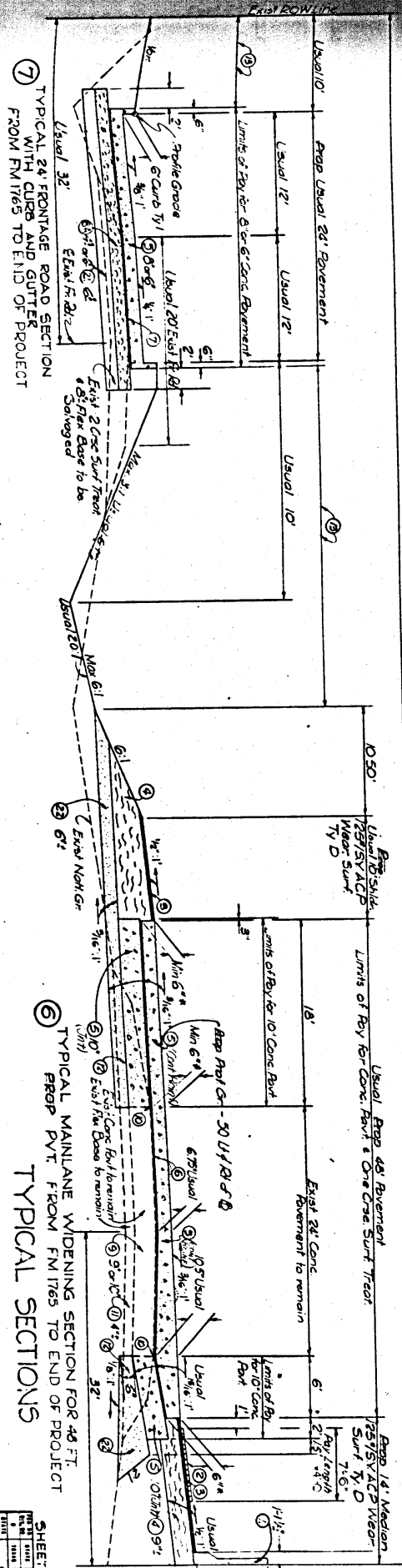
Usual 150'



4 TYPICAL MAINLANE SECTION AT BREAKOUT FOR SAG CURVES

- SYMBOLS LEGEND**
- 1 Prop 36" Road Usual
 - 2 Prop 10" Jointed Conc. Pav
 - 3 Prop 10" Jointed Conc. Pav
 - 4 Prop 10" Jointed Conc. Pav
 - 5 Prop 10" Jointed Conc. Pav
 - 6 Prop 10" Jointed Conc. Pav
 - 7 Prop 10" Jointed Conc. Pav
 - 8 Prop 10" Jointed Conc. Pav
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 - 11 Prop 10" Jointed Conc. Pav
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 - 98 Prop 10" Jointed Conc. Pav
 - 99 Prop 10" Jointed Conc. Pav
 - 100 Prop 10" Jointed Conc. Pav

5 TYPICAL 36" FRONTAGE ROAD SECTION WITH CURB AND GUTTER



6 TYPICAL MAINLANE WIDENING SECTION FOR 40 FT.

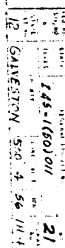


Deep Foundation Concrete-Mass Concrete Median Barrier	②	Deep Galvanized Steel Beam Guard Fence For Fill Heights Above 5' (2)
Deep Single Post	③	Deep Rebarbed Wall
Deep A-50 Weaving Surf-Ty D	④	2" x 10" Deep Drain (R29 Mod.) To Be Used In Earthen Area Only
Deep Asphalt Sheds Base	⑤	Deep Riprap (R29 Modified)
Deep Conc. Pavt.	⑥	Deep Lime Treated Subgrade
Deep 44" x 54" x 54" Base	⑦	Deep Reinforced 6" Deep Pipe
Deep Conc. Slab Base w/ Cam-Tie Steel S&W Fla. Base	⑧	Deep Select Borrow (Type C, Class)
Deep Conc. Pavt.	⑨	
Deep Flot. Drain		
Note: Exist Fla. Base Shifts To E Side		
Deep Birdnet Seed		
Deep Block Seed For Fill Heights Above 5' (2)		

⑧ **Cem. Treat. Solv. Flex Base**
~~Base~~ Traffic Buttons and Pavement Markers (Type II)

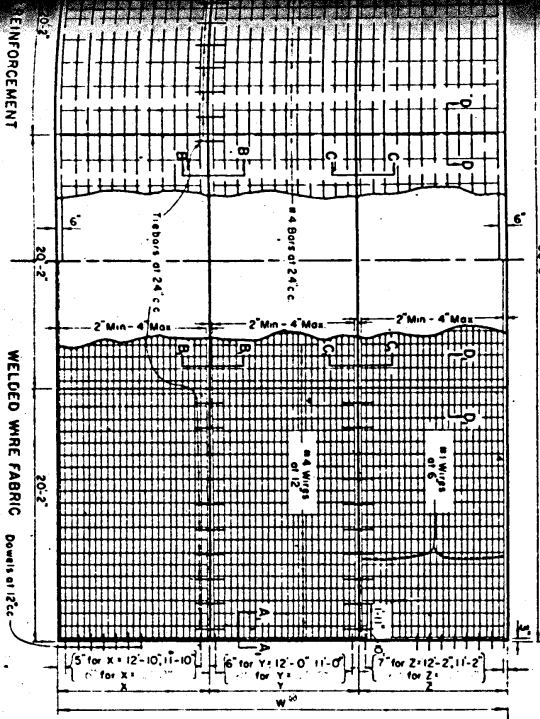
⑨ TYP. ~~EDGE~~ 47' CURB AND GUTTER FRONTAGE ROAD
SECTION WITH RETAINING WALLS
AT FM 1765 & 1

TYPICAL SECTIONS



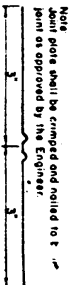
FORGING STEEL DATA			
8"	9"	10"	
1"	1 1/8"	1 1/4"	
14"	16"	18"	
3"	3 1/2"	4"	

THREE LANE PAVEMENT PLAN

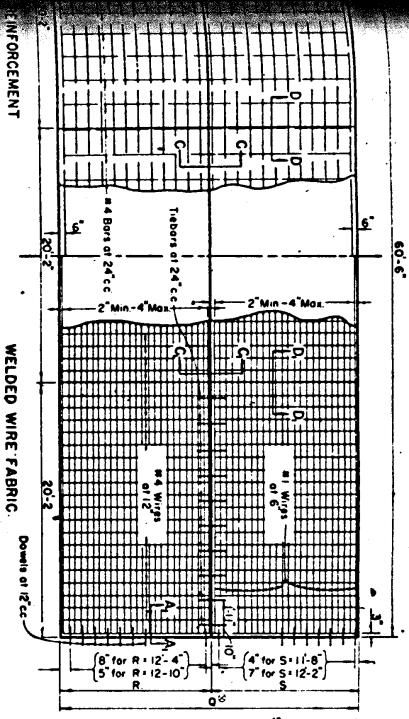


W	37'-0"	36'-0"	34'-0"
X	12'-10"	12'-7"	11'-10"
Y	12'-0"	12'-0"	11'-0"
Z	12'-2"	12'-0"	11'-2"

JOINT PLATE DETAIL



TWO LANE PAVEMENT PLAN

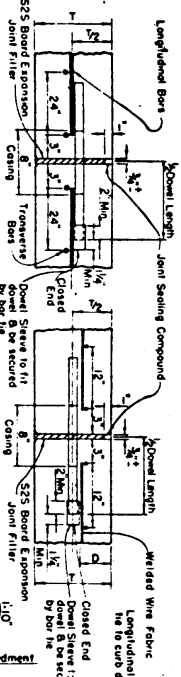


Q3	24'-0"	24'-6"	25'-0"
R	12'-4"	12'-4"	12'-10"
S	11'-6"	12'-2"	12'-2"

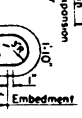
PLAN

8. Use variable widths at ramp
occasions and at auxiliary lanes
for ~~increased~~ widening or existing
roadways.

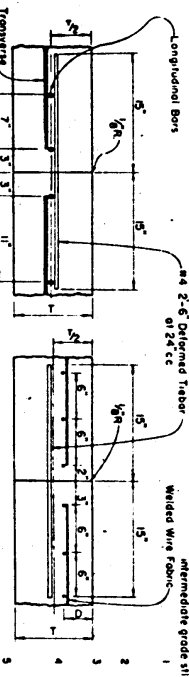
SECTION A-A SECTION A-A
BAR REINFORCEMENT WELDED WIRE FABRIC
TRANSVERSE EXPANSION JOINTS



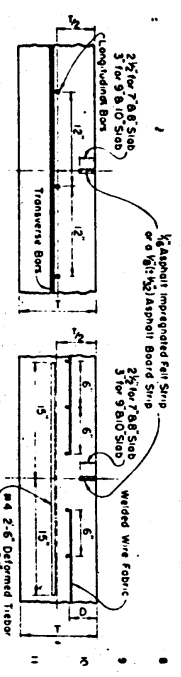
CLUB POWER



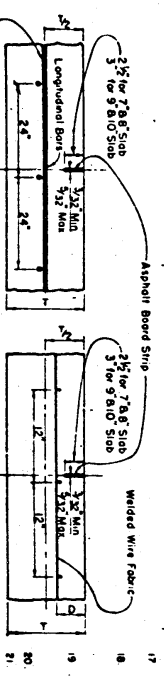
SECTION B-B SECTION I
BAR REINFORCEMENT WELDED WIRE
LONGITUDINAL CONSTRUCTION JOINTS



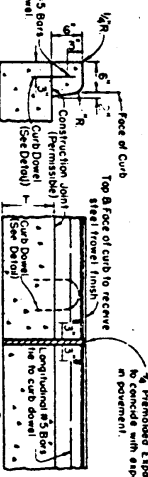
SECTION C-C SECTION C-C
BAR REINFORCEMENT WELDED WIRE FABRIC
LONGITUDINAL WEAKENED PLANE JOINTS



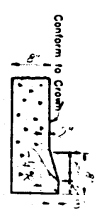
SECTION D-D SECTION A-A
BAR REINFORCEMENT WELDED WIRE FABRIC
TRANSVERSE WEAKENED PLANE JOINTS



SECTION	ELEVATION
TYPICAL 6" CURB(MONOLITHIC) (TYPE 2)	3.50



LAYDOWN CURB (TYPE 5)

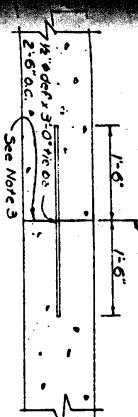


GENERAL NOTES

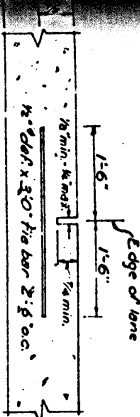
CONSTRUCTION JOINTS MAY BE FORMED WITH METAL OR WOOD FORMS EQUAL IN DEPTH TO THE NOMINAL DEPTH OF THE PAVEMENT OR BY OTHER MEANS WHICH HAVE BEEN APPROVED BY THE ENGINEER PRIOR TO THEIR USE.

[illegible]

Note: For reinforcing steel and other details not shown here, see sheet No. 140

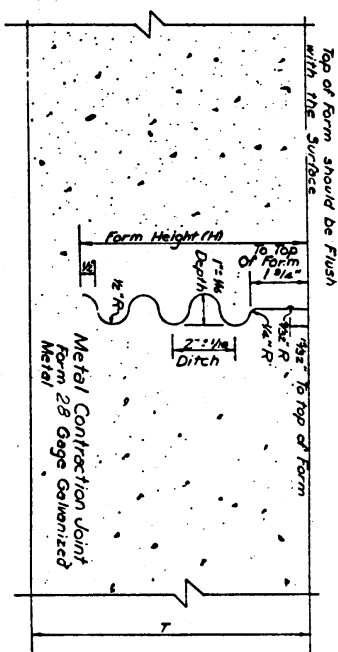


TYPE 1- CONSTRUCTION



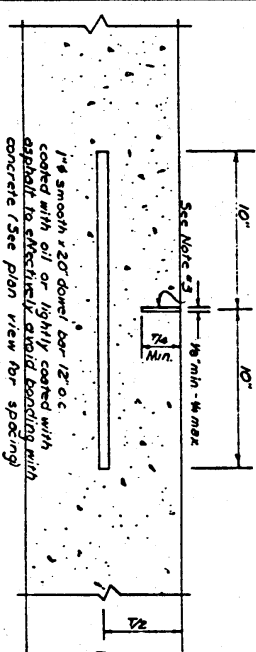
TYPE 2 - GROOVED
(Formed with Tie Bars)

Note: For reinforcing steel and other details not shown here, see sheet No. 140.



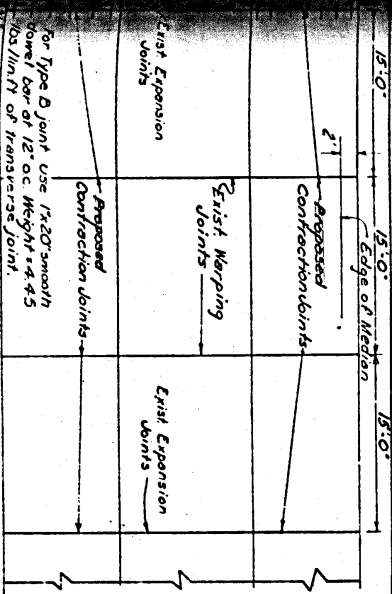
TYPE A (CORRUGATED METAL)

Note: Permissible fabrication tolerance: The semicircular segments shall be connected at a common point of tangency on the vertical axis of the joint or by a segment not exceeding one fourth of an inch in length at right angles to and symmetrical with the vertical axis of the joint.

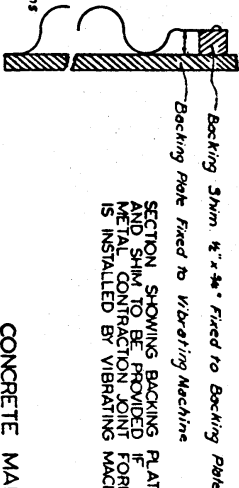


TYPE B (GROOVED)
(Formed with Coated Dowel)

AN VIEW OF LONGITUDINAL AND ADVERSE CONTRACTION JOINTS

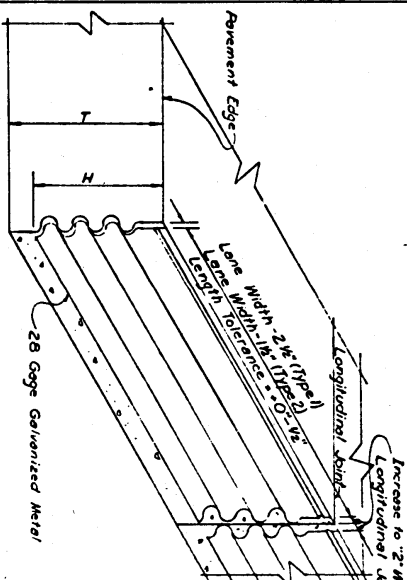


Crown Shell be as Shown on Typical Sections



CONCRETE MAIN LANE PAVEMENT WIDENING DETAILS

JOINT DESIGN



**OBLIQUE SECTION SHOWING METAL
CONTRACTION JOINT FORM IN PLATE**

Form Height (H) (in)	5 1/2"	5 3/4"	6 1/4"	7 1/4"	8 1/4"	9 1/4"
Slab Thickness (T) (in)	6	7	8	9	10	12

The values shown above are applicable when form is installed by machine. When form is stretched out in advance of concrete placement, these values are to be considered as minimum heights.

GENERAL NOTES:

1C. Form, pavement width and pavement thickness shall be as shown on typical sections elsewhere in plans. Where more than two lanes are shown on the typical sections, the 1st longitudinal joint shall be used as a construction joint.

2. The top of the 1st transverse contraction joint is optional. Other means of road transfer may be used when approved by the Engineer.

3. The depth of the 1st longitudinal joint shall be longitudinal and of the depth shown for Types 2 & B. The weakened plane may be formed by

(A) an asphalt board strip field in a continuous mechanical drive and placed continuously in grooves cut in the concrete by an approved mechanical device operating behind the longitudinal form, or (B) an asphalt board strip field strip, or (C) any alternate method which prior to the use has been approved by the Engineer, does not apply to Construction Joint Method (B) (C) above.

4. The 1st Longitudinal Joint may be formed by a metal beam wood form or steel, which prior to its use, has been approved by the Engineer.

5. The Contractor will be required to indicate the metal contraction joint form or concrete edge and concrete width and the concrete joint configuration or finished surface to be secured parallel to the pavement surface and perpendicular to the center line of the curb or accurately placed in position on the street concrete by means of approved equipment and placed in the proper position with suitable tools and equipment, approved by the Engineer.

6. Reinforcing steel shall be secured parallel to the pavement surface and center line by a device which will be approved by the Engineer.

7. Reinforcing steel shall be placed prior to the start of the final finishing equipment. When work is stopped due to breakdown or other causes, remove concrete before the concrete yield in place and install new.

8. For reinforcing steel and other details not shown refer, see Sheet No. 402.

10. On the base Pavement, where suitable or practicable area is specified the Water-Carrier (laying) Form shall be placed with and Reinforcing pavement surface. Cutting corners in top of dirt is not necessary.

11. Reinforcing specified by the Engineer, the minimum length of Reinforcing Form shall be 10 feet and shall be placed in position on the street concrete by means of approved equipment and placed in the proper position with suitable tools and equipment, approved by the Engineer.

12. Reinforcing shall be provided only at the street line, its offsets, its spurs and its corners.

13. The Reinforcing shall be provided only at the street line, its offsets, its spurs and its corners.

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106. Reinforcing shall be provided only at the street line, its offsets, its spurs and its corners.

107. Reinforcing shall be provided only at the street line, its offsets, its spurs and its corners.

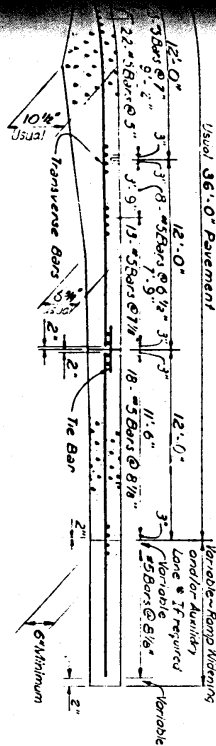
108. Reinforcing shall be provided only at the street line, its offsets, its spurs and its corners.

109. Reinforcing shall be provided only at the street line, its offsets, its spurs and its corners.

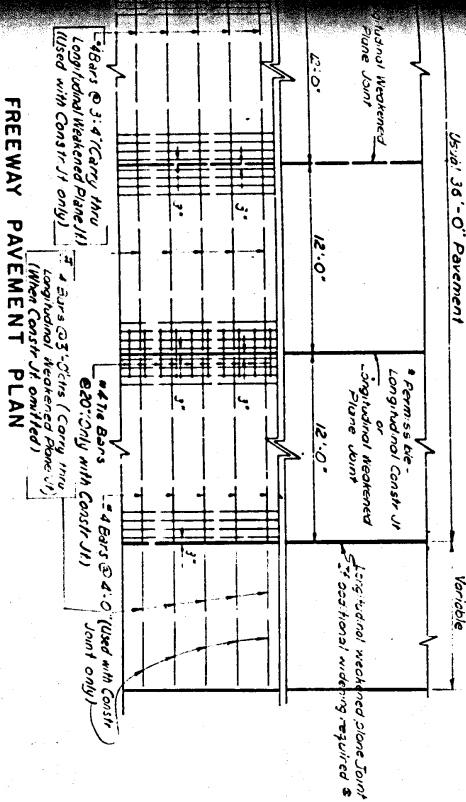
110. Reinforcing shall be provided only at the street line, its offsets, its spurs and its corners.

111. Reinforcing shall be provided only at the street line, its offsets, its spurs and its corners.

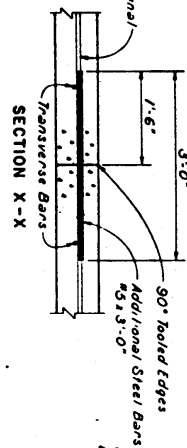
112. Re



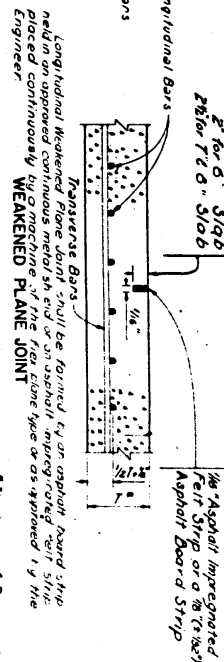
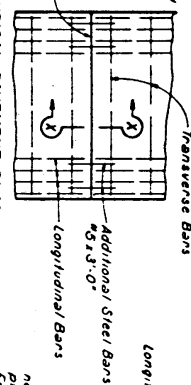
OVERLAY SECTION - VARIABLE DEPTH



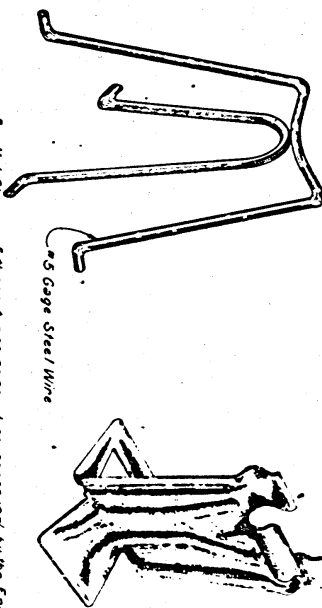
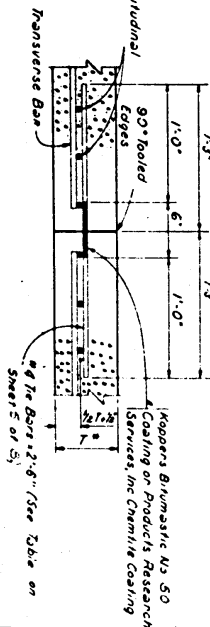
TRANSVERSE CONSTRUCTION JOINT



(ONE LANE)



CONSTRUCTION JOINT
SHOWING PAVEMENT TIE BAR
LONGITUDINAL JOINTS



SUGGESTED CHAIR DETAILS

TEXAS HIGHWAY DEPARTMENT
HOUSTON URBAN PROJECT

CONCRETE PAVEMENT DETAILS CONTINUOUSLY REINFORCED

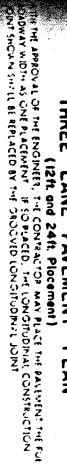
STEEL BARS
6" CRCP (VAR. DEPTH)
140

[illegible][illegible]

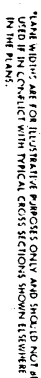
IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE ALL NECESSARY PRECAUTIONS TO INSURE THAT THE FINAL POSITION OF THE STEEL IS WITHIN TOLERANCE OF 3" HORIZONTAL & VERTICALLY UP OR DOWN FROM THE THEORETICAL POSITIONS SHOWN ON DRAWING FROM BOTTOM OF STEEL TO BOTTOM OF 3-48.

Note: If longitudinal weakened Stone Joint is used to accommodate 36"-O" width monolithic placement, omit tie bars and carry transverse steel through joint.

AFTER PLACEMENT OF THE SLAB, IF THE "CLAMPING" BOLT IS LESS THAN 6 LONG, THE EDGES OF THE LONGITUDINAL STEEL SHALL BE WELDED TO THE FACES OF THE PANEL. THE SURFACE SHALL BE CLEANED SO THAT ADOQUATE BOND WILL DEVELOP BETWEEN NEW AND OLD CONCRETE. THE REINFORCED PLANT THICKNESS OF MAINLINE INWENT FOR DEFLECTIVE ELEMENTS SHALL BE CONTINUED TO WITHIN 6" FOR THE FULL WIDTH OF THE SLAB. PRESERVATIVE TREATMENT SHALL BE CONTINUED TO WITHIN 6" OF THE PROPOSED VARIABLE DEPTH OF TREATMENT.



THREE LANE PAVEMENT PLAN (12th and 24th Placement)



TWO LANE PAVEMENT PLAN
(24 ft. Placement) •

**TYPICAL SECTION
(24 ft. Placement)**



8 Use variable widths of ramp locations and of auxiliary lanes. Steel placement and dimensions shall be the same as the usual 36" placement.

Port Name	Elevation above MSL	24 Hr Placement Width				12 Hr Placement Width				Aridl Shore Line	Aridl Shore Line Elev.	Wet- Land Elev.		
		No. of Stakes in Feet	No. of Stakes in Feet	Shooting Stakes in Feet	No. of Stakes	No. of Stakes in Feet	No. of Stakes in Feet	No. of Stakes						
A.5	1	50	6	45	19.40	3	6.5	2.0	15.99	5.8	6.5	13	10	2.61
	2	50	6	45	19.40	3	6.5	2.0	15.99	5.8	6.5	13	10	2.61
	3	50	6	45	19.40	3	6.5	2.0	15.99	5.8	6.5	13	10	2.61
	4	50	6	45	19.40	3	6.5	2.0	15.99	5.8	6.5	13	10	2.61
A.6	1	50	6	45	19.40	3	6.5	2.0	15.99	5.8	6.5	13	10	2.61
	2	50	6	45	19.40	3	6.5	2.0	15.99	5.8	6.5	13	10	2.61
	3	50	6	45	19.40	3	6.5	2.0	15.99	5.8	6.5	13	10	2.61
	4	50	6	45	19.40	3	6.5	2.0	15.99	5.8	6.5	13	10	2.61
A.7	1	50	6	45	19.40	3	6.5	2.0	15.99	5.8	6.5	13	10	2.61
	2	50	6	45	19.40	3	6.5	2.0	15.99	5.8	6.5	13	10	2.61
	3	50	6	45	19.40	3	6.5	2.0	15.99	5.8	6.5	13	10	2.61
	4	50	6	45	19.40	3	6.5	2.0	15.99	5.8	6.5	13	10	2.61
A.8	1	50	6	45	19.40	3	6.5	2.0	15.99	5.8	6.5	13	10	2.61
	2	50	6	45	19.40	3	6.5	2.0	15.99	5.8	6.5	13	10	2.61
	3	50	6	45	19.40	3	6.5	2.0	15.99	5.8	6.5	13	10	2.61
	4	50	6	45	19.40	3	6.5	2.0	15.99	5.8	6.5	13	10	2.61
A.9	1	50	6	45	19.40	3	6.5	2.0	15.99	5.8	6.5	13	10	2.61
	2	50	6	45	19.40	3	6.5	2.0	15.99	5.8	6.5	13	10	2.61
	3	50	6	45	19.40	3	6.5	2.0	15.99	5.8	6.5	13	10	2.61
	4	50	6	45	19.40	3	6.5	2.0	15.99	5.8	6.5	13	10	2.61
A.10	1	50	6	45	19.40	3	6.5	2.0	15.99	5.8	6.5	13	10	2.61
	2	50	6	45	19.40	3	6.5	2.0	15.99	5.8	6.5	13	10	2.61
	3	50	6	45	19.40	3	6.5	2.0	15.99	5.8	6.5	13	10	2.61
	4	50	6	45	19.40	3	6.5	2.0	15.99	5.8	6.5	13	10	2.61

[illegible]

THE SPACINGS ①; HOW IN THE ABOVE PLACEMENT TABLE ARE THE

- ① INCLUDES BOTH REGULAR LONGITUDINAL AND TRANSVERSE BARS BASED UPON A FOOT REINFORCEMENT LENGTHS FOR THE WIDTH INDICATED. ALL TRANSVERSE STEEL IS #4 BARS AT 36" CENTERS.
- ② THIS SHALL BE THE MINIMUM NUMBER OF ADDITIONAL STEEL BARS TO BE PLACED PER LANE. THE SPACING OF THE ADDITIONAL STEEL BARS SHALL BE VARIED AS DIRECTED IN ORDER TO PROVIDE A MINIMUM CLEARANCE OF 3" FROM EACH REGULAR LONGITUDINAL REINFORCING BAR.

All longitudinal and transverse reinforcing bars, (except those which are to be bent) shall be "plain" steel conforming to the Specification for Reinforcing Steel Bars, AASHTO Specification 403, or ASTM Specification 601, Grade 60. Transverse bars and bars which require bending shall conform to ASTM Specification 601, Grade 40.

Within any two feet of pavement length, measured parallel to the centerline, not over one of the longitudinal bars shall be applied within each twelve foot wide section. Bar splices shall be a minimum of 48 inches and shall be staggered. Longitudinal steel shall be furnished in convenient lengths.

It shall be the responsibility of the Contractor to take all necessary precautions to insure that the final position of the steel is within a vertical and horizontal tolerance of 1/2" from the theoretical position.

Longitudinal *centerline* joints and construction joints may be interconnected provided the transverse reinforcing steel is adjusted accordingly as directed by the Engineer. In no case shall longitudinal *centerline* or *centerline* joints be more than 2' apart on freeway pavement, or onhouse street pavement as directed by the Engineer.

The number of transverse construction joints installed shall be kept to an absolute minimum as approved by the Engineer. If placement is stopped at the end of the day or for other reasons, place board headed and extend each of the longitudinal bars in consecutive increments of 2' beyond the board headed. Remove the board headed bars and weld the longitudinal bars in increments of 2' beyond the board headed. Engineer, welded bar lap splices may be used in lieu of extending longitudinal bars beyond the board headed.

The reinforcing steel furnished for welding shall be new plain steel only. See Item 4.08 for reinforcement for widening reinforcing steel. Welded bars shall be required at all points where any proposed metal casting (concrete, steel, etc.) is to be placed.

GENERAL NOTES

CONCRETE PAVEMENT DETAILS CONTINUOUSLY REINFORCED

STEEL BARS

MAINLANES 10" CRCP

SHEET 5 OF 8 SHEETS

ORIGINAL	YES	1969
ALYIMO	YES	1969

12 161 VF

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