

GENERAL NOTES

DEAD LOAD: Concrete at 150^{lb} per cu. ft.
LIVELOAD: H15 loading Impact allowance $\frac{50}{L+125}$

CONCRETE: For classes of concrete in different parts of structure see "Estimated Quantity Table." All exposed edges to be chamfered $\frac{3}{4}$ " unless otherwise noted.

REINFORCING STEEL: Intermediate grade, allowable tensile stress 18,000^{lb} per sq. inch. All steel to be round or square of approved design. All dimensions relating to reinforcing are to center of bars unless otherwise noted.

Where splicing of reinforcing is necessary, bars are to be lapped 40 diameters and splices are to be staggered. Splicing of main deck reinforcing is not permitted. No allowance will be made in the quantities for extra weight of steel required for splices not shown on the plans.

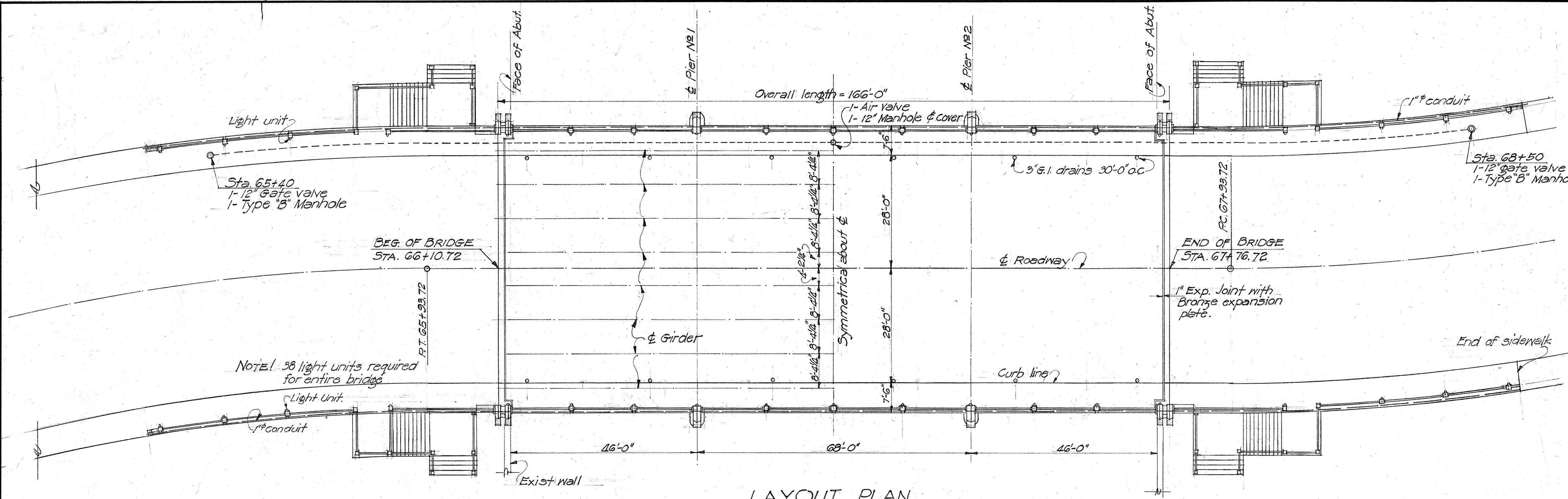
Unless otherwise noted the minimum covering measured from the surface of concrete to the face of any steel shall be not less than $2\frac{1}{2}$ " in abutments and abutment footings; 2" in beams, girders and handrails and $1\frac{1}{4}$ " in slabs. Steel to be rigidly and accurately held in place before and during placing of concrete. Splices in main girder bars are permitted only in bars exceeding 60'-0" in length at points indicated by the Engineer. All splices in main girder bars to be electrically arc welded according to detail and specification.

CONSTRUCTION JOINTS: All construction joints to have surface roughened and 1:2 cement grout applied immediately before the second pour. Construction joints to be located at places indicated on the plans.

TABLE OF ESTIMATED QUANTITIES

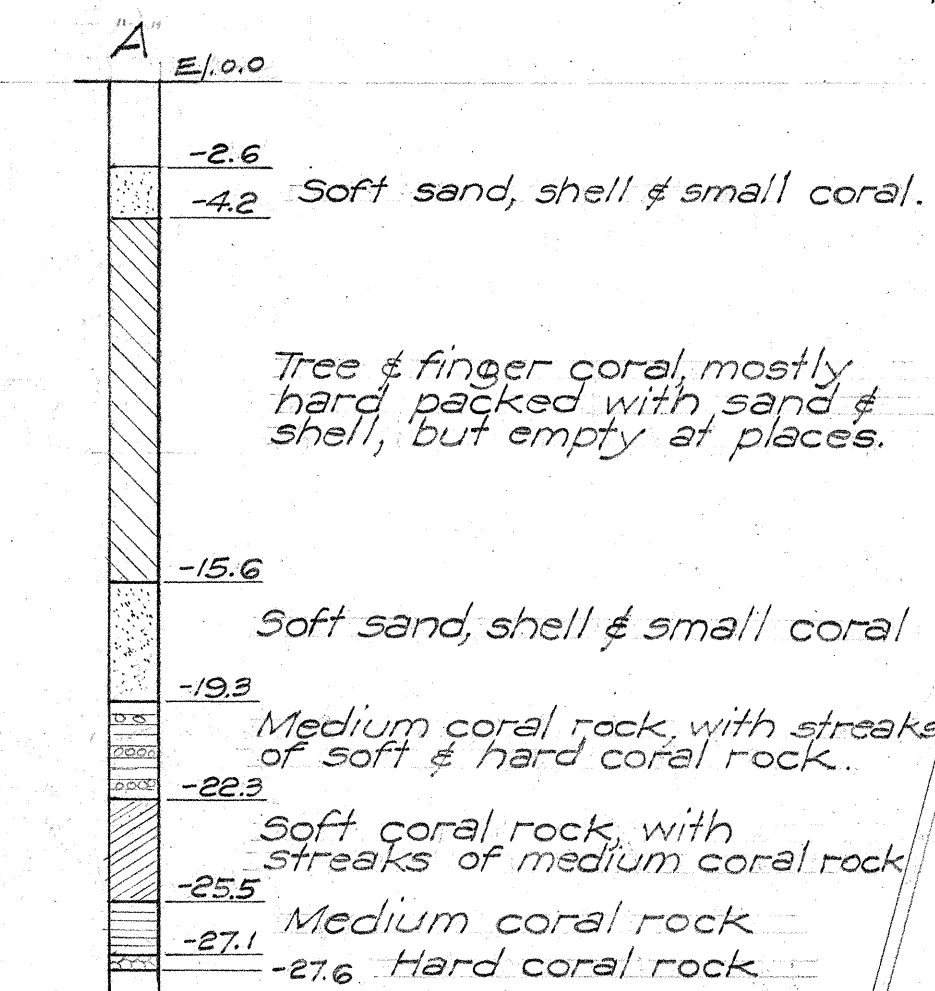
Location	Class A-1' conc.	Class A-2' conc.	Class F' conc.	Reinf. Steel	Structure Exc.
Superstructure	621.2 Cu.Yds.			161,200 lbs.	
Abutment footings	142.0				539.3 Cu.Yds.
Abutments	193.0				
Pier footings		124.1 Cu.Yds.			
Piers below El. 6.5		195.4			
Piers above El. 6.5	30.6				
Sidewalks at approaches	75.1				
Retaining wall & staircase flgs.	118.0				614.4
Retaining wall & staircase	217.3				
2'-0" x 2'-0" x 3'-0" conc. rocker			3.4 Cu.Yds.	2,000	
Conc. gutter & curb	64.5				
Railing posts	9.9				
Abuts, Ret. walls, staircase walls & slabs including railing posts					65,000
TOTALS	1,472.0 Cu.Yds.	319.5 Cu.Yds.	3.4 Cu.Yds.	228,200 lbs.	1,150.7 Cu.Yds.

LAYOUT PLAN
Scale $\frac{1}{16}"=1'-0"$

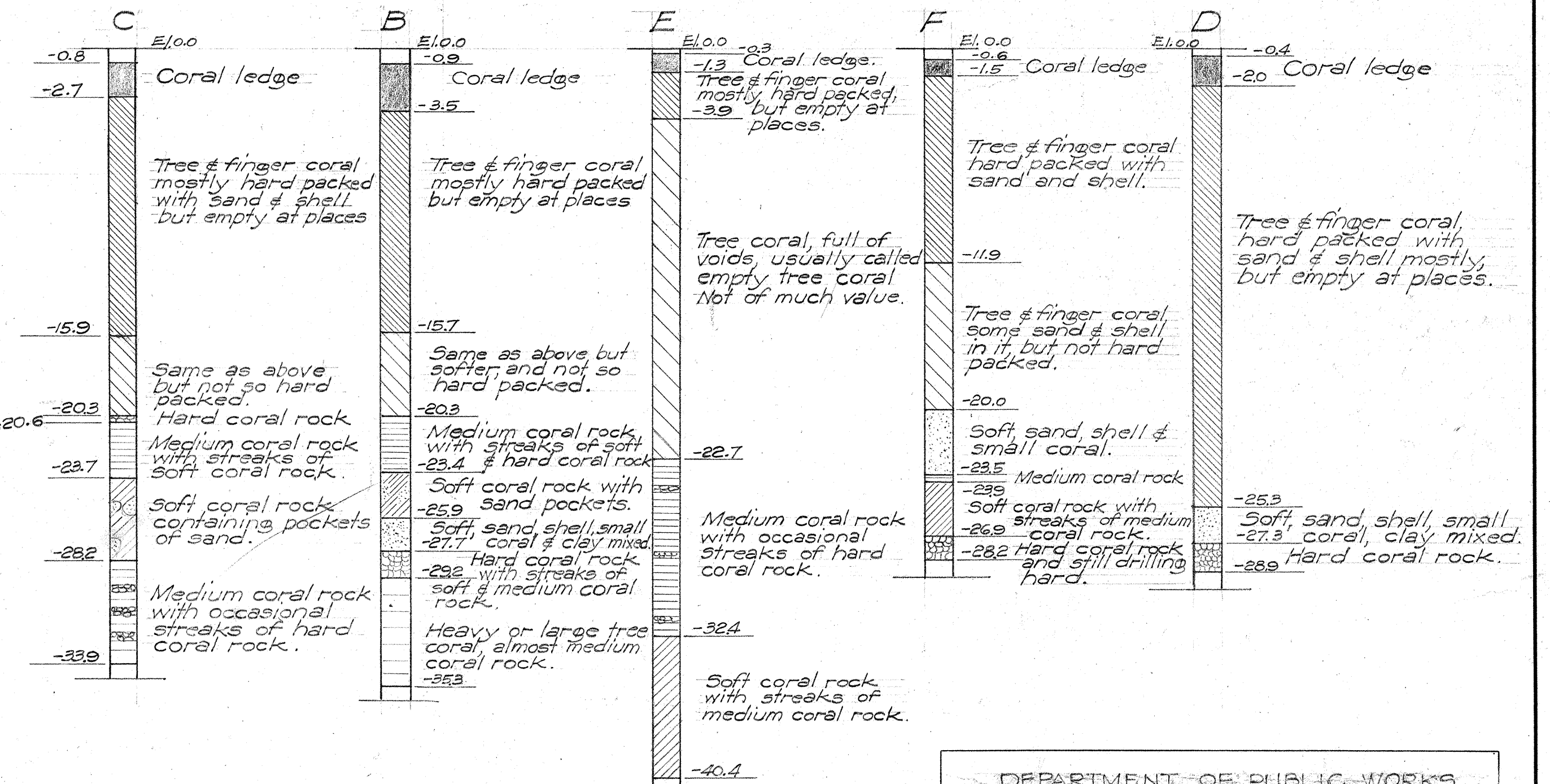


ELEVATION
Scale $\frac{1}{16}"=1'-0"$

BORING DATA



BORING DATA



PLOT PLAN
Scale $1"=100'$

DESIGNED BY: J. H. HARRIS
DRAWN BY: J. H. HARRIS
CHECKED BY: J. H. HARRIS
DATE: JULY 1938
SHEET NO. 2 OF 9 SHEETS
4469.2

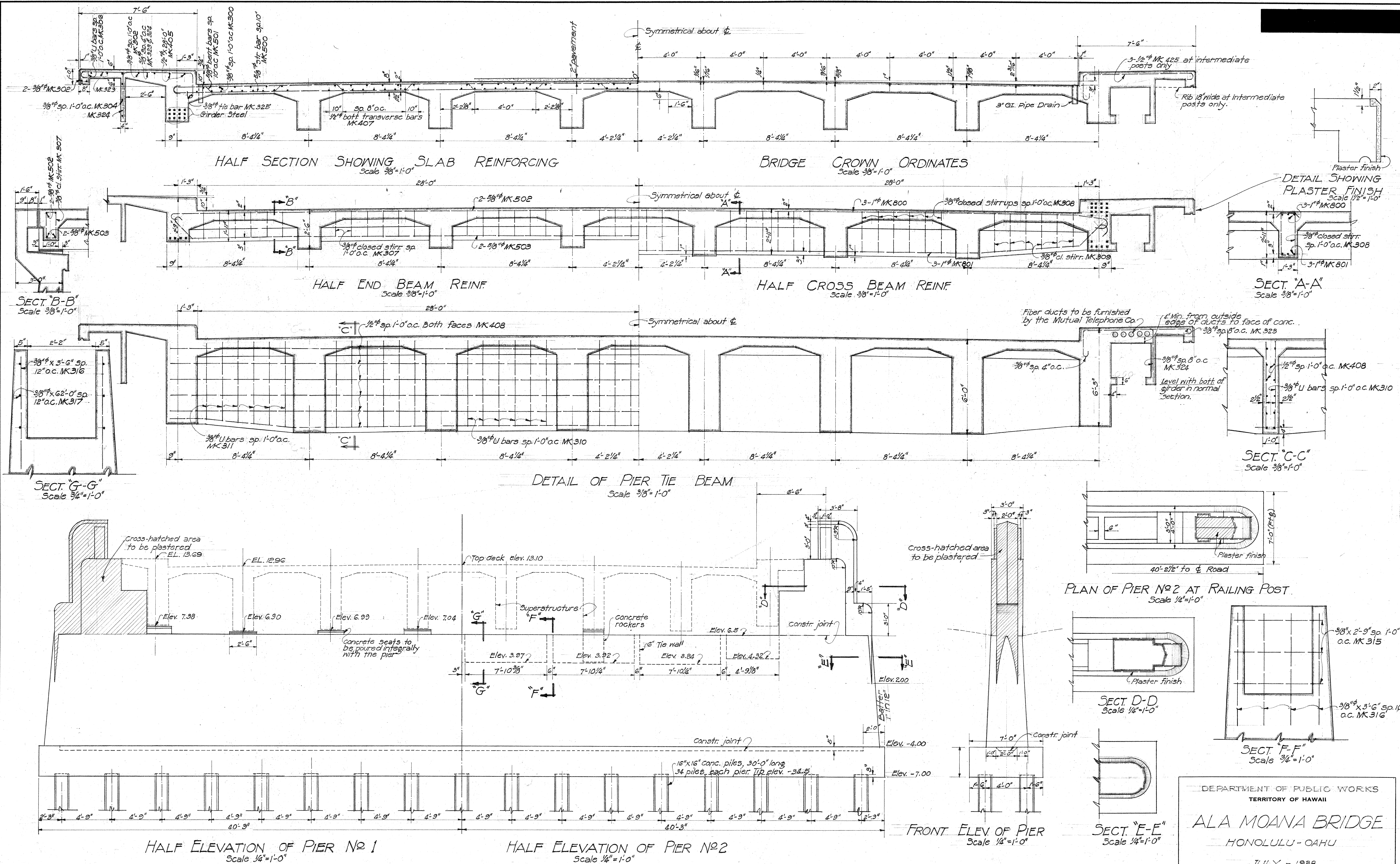
DEPARTMENT OF PUBLIC WORKS
TERRITORY OF HAWAII

ALA MOANA BRIDGE
HONOLULU - OAHU

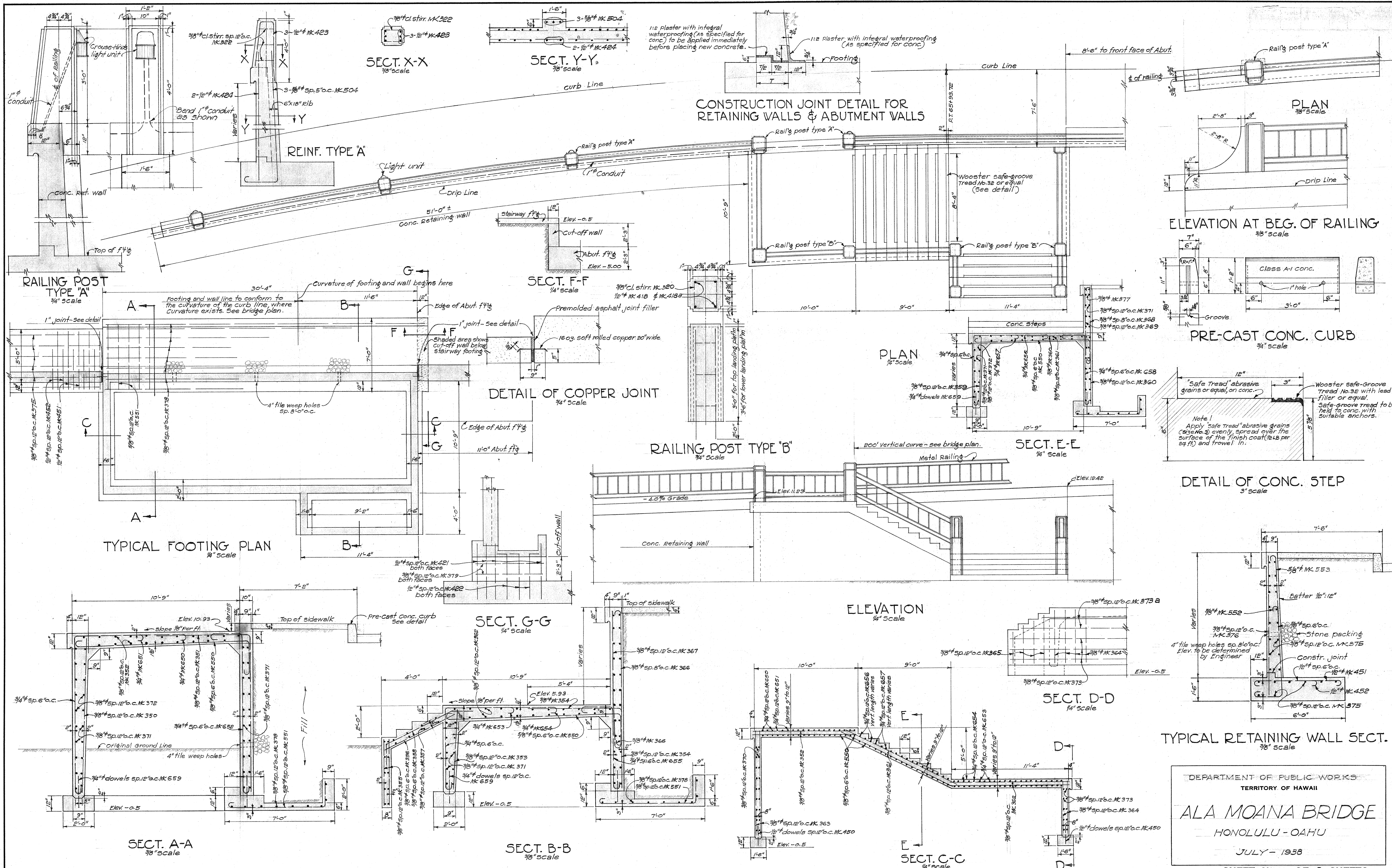
JULY - 1938

SHEET NO. 2 OF 9 SHEETS

4469.2

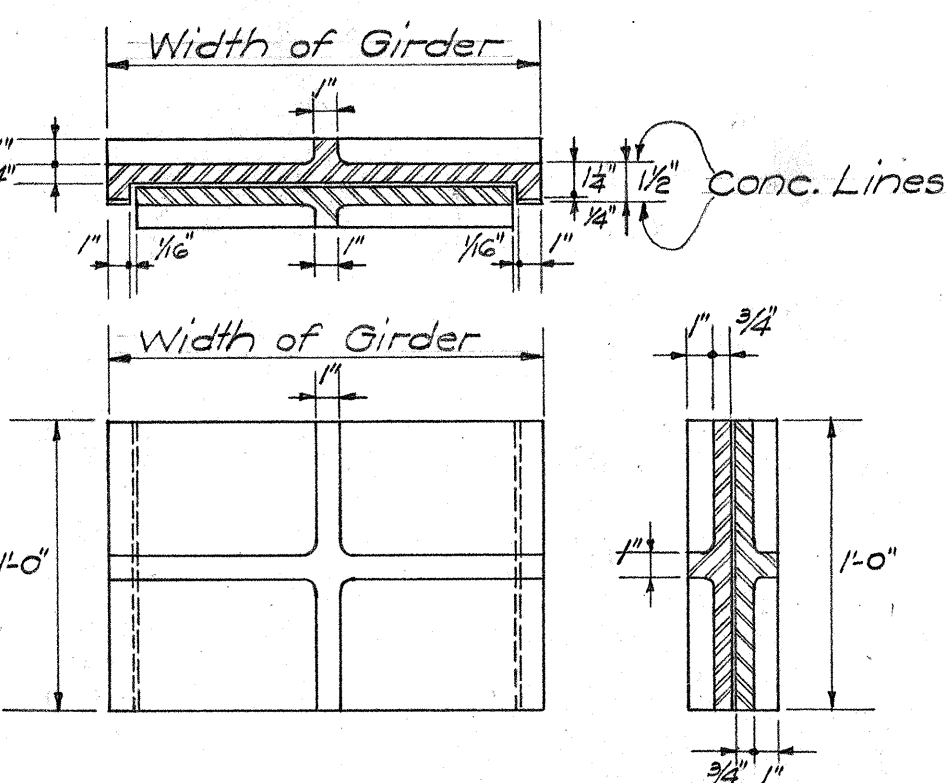


DESIGNED BY	DATE
DRAWN BY	12/13
CHECKED BY	
QUANTITIES CHECKED BY	
NOTE BOOK	
NO.	



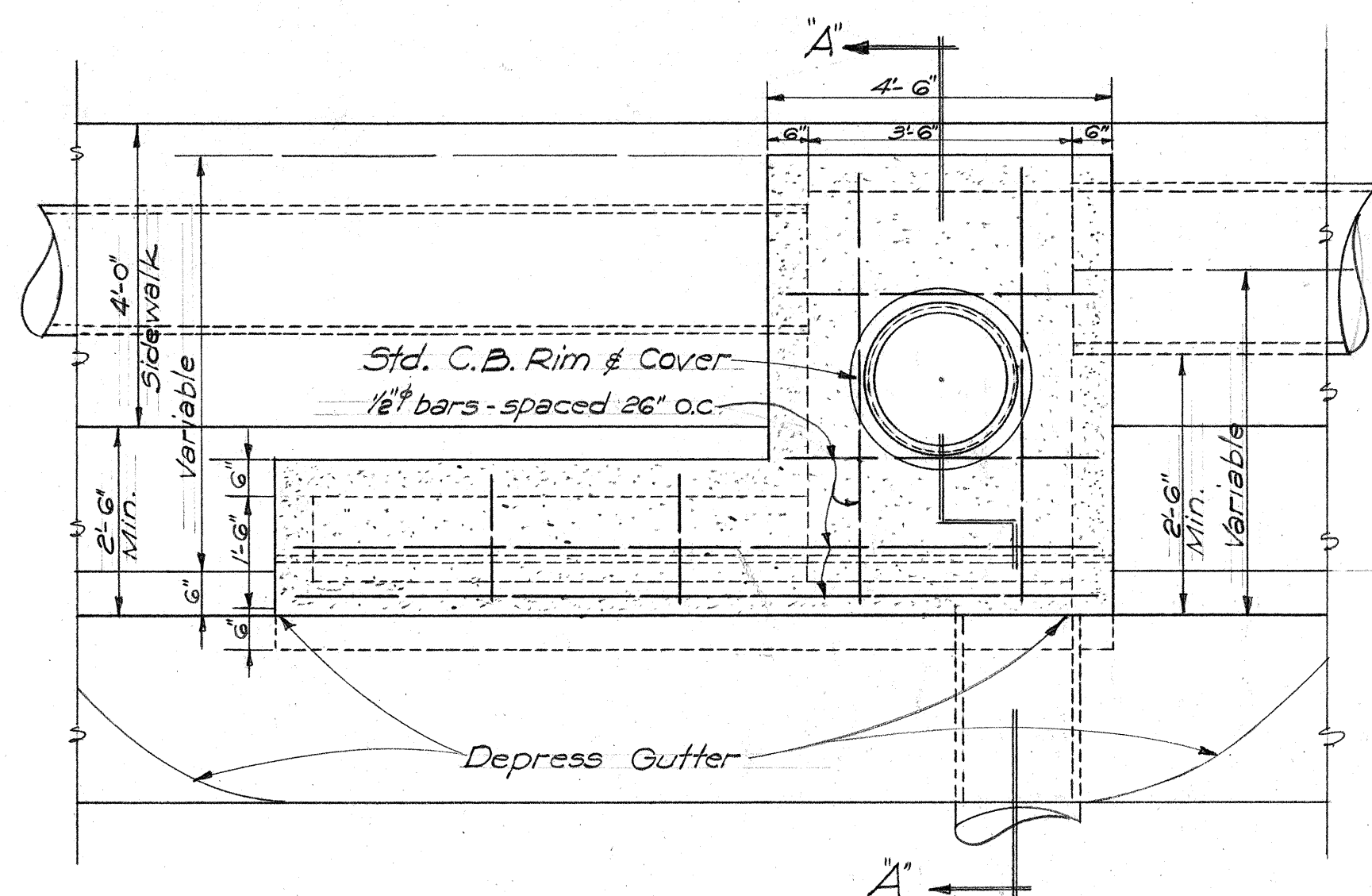
4469.7

DIAGRAM OF TYPICAL
15 TON TRUCK



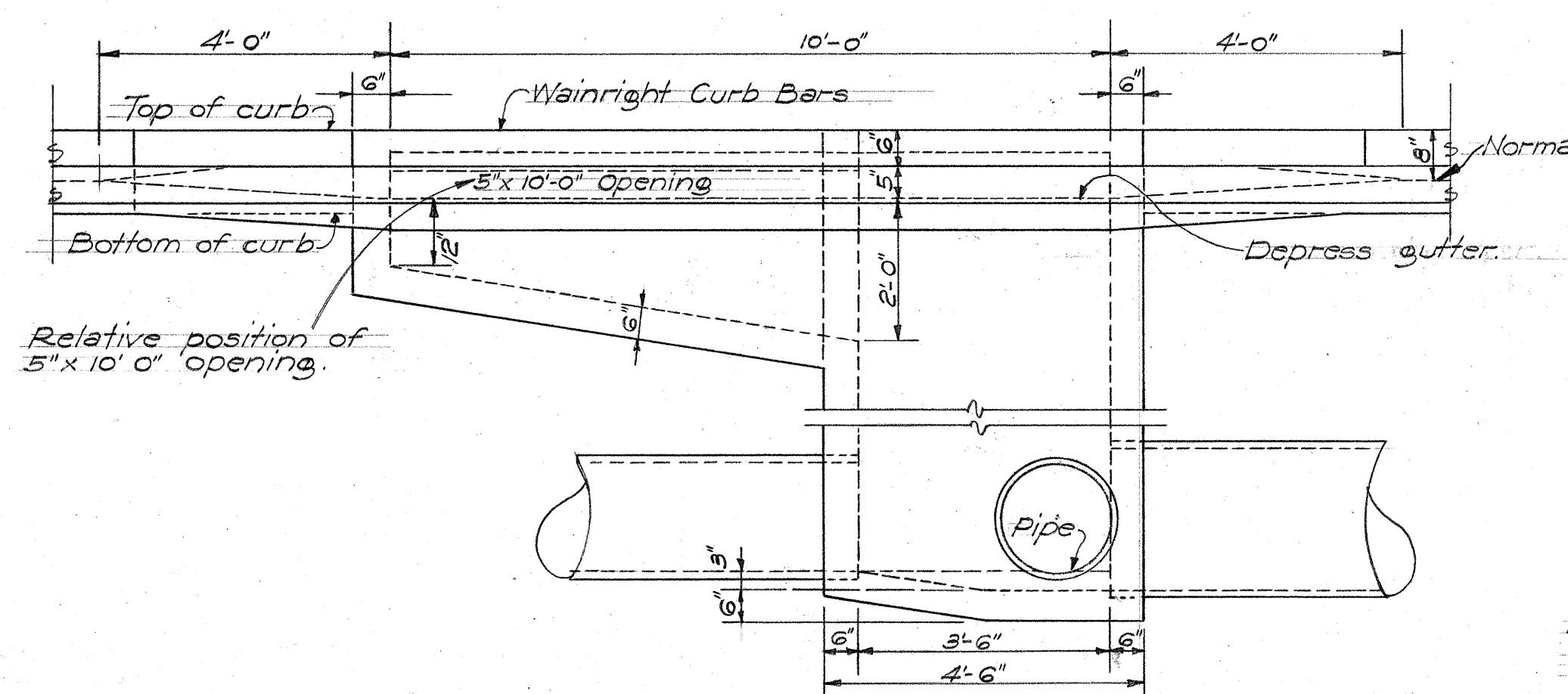
EXPANSION PLATES

Note: Plates to be of phosphor bronze Class "C", contact areas to have a medium planed finish with finishing strokes parallel to longitudinal direction of bridge.



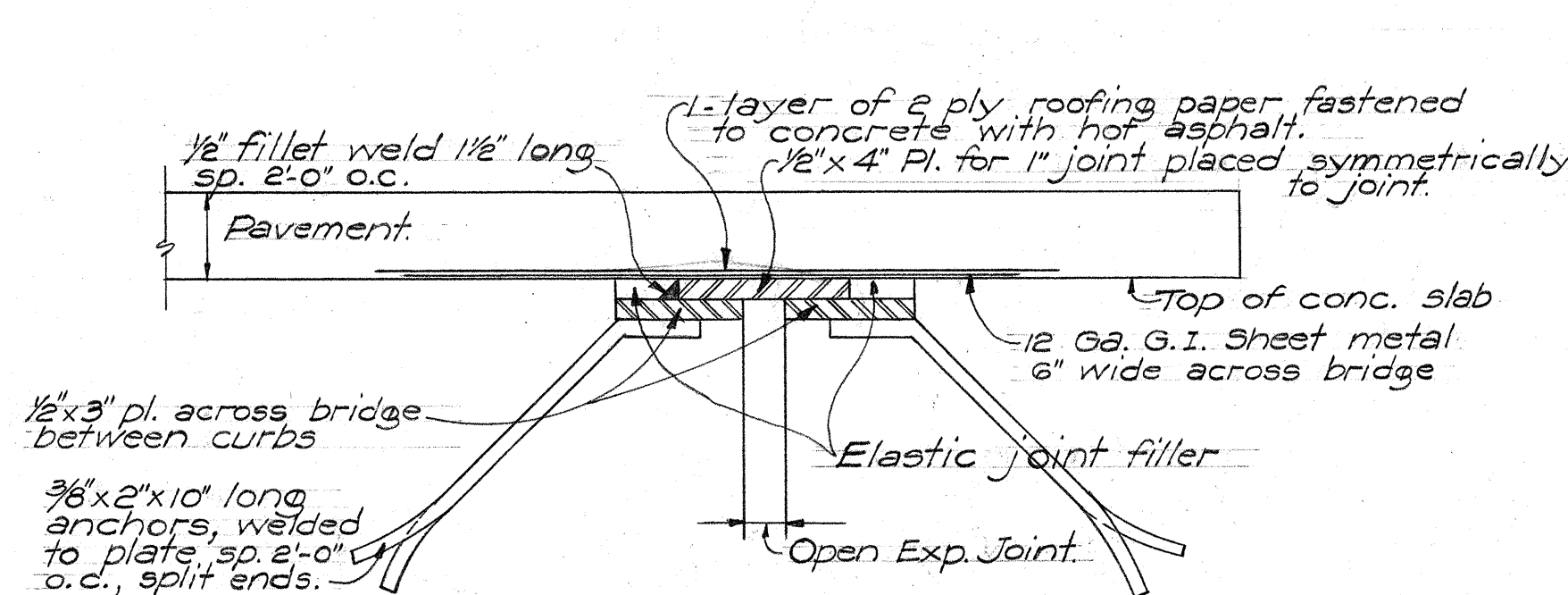
PLAN OF CATCH BASIN

Scale $\frac{1}{2}'' = 1'-0''$



FRONT ELEVATION OF CATCH BASIN

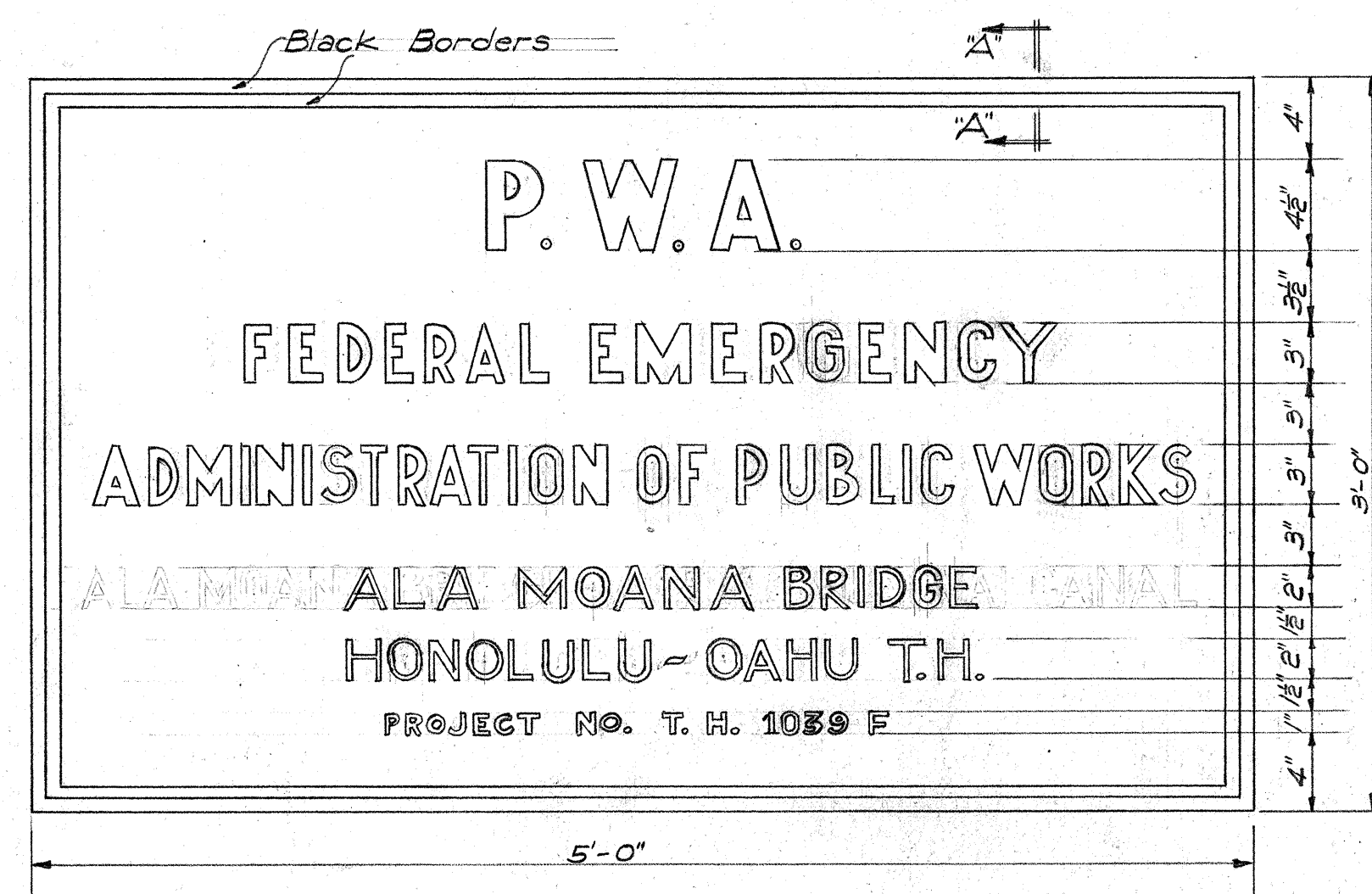
Scale $\frac{1}{2}'' = 1'-0''$



EXPANSION JOINT DETAIL

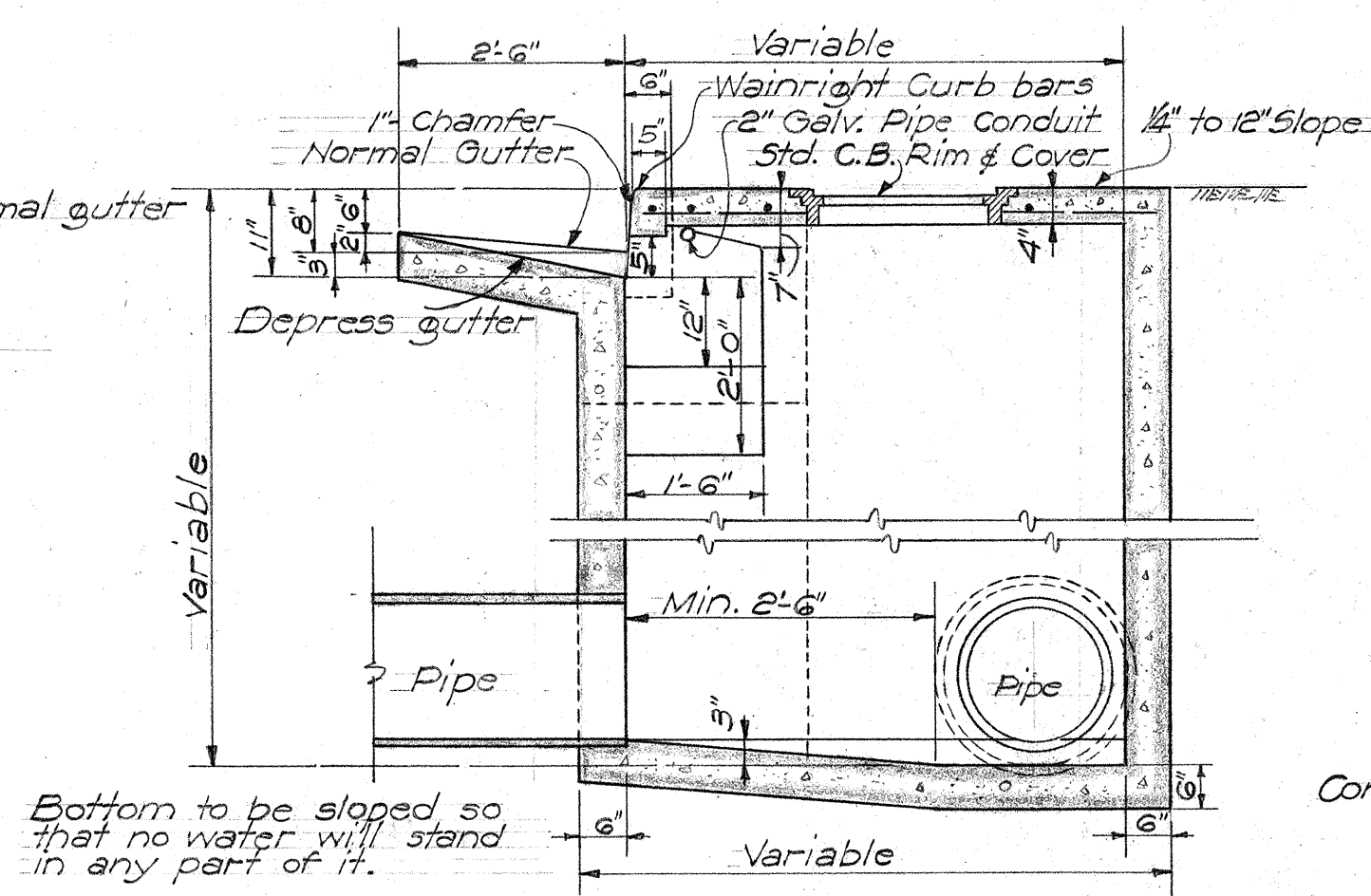
NOTE! All metal to be galvanized. Effective precaution must be taken by the Contractor to prevent any leakage of pavement binder through expansion joints at curbs.

Scale 3" = 1'-0"



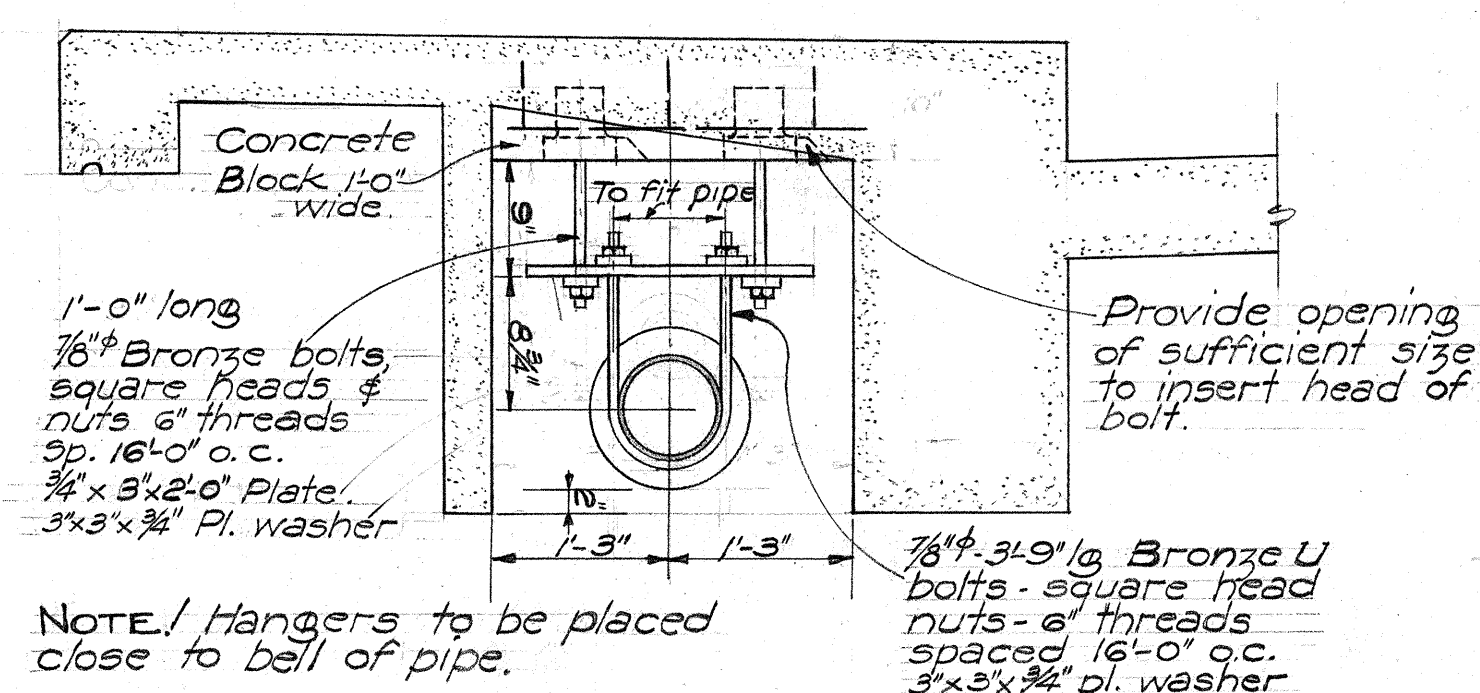
TYPICAL DETAIL OF SIGNS

NOTE: Black letters and borders
To be erected by the General Contractor.
See general conditions of specifications.
Three required. Size 5'-0" x 3'-0"



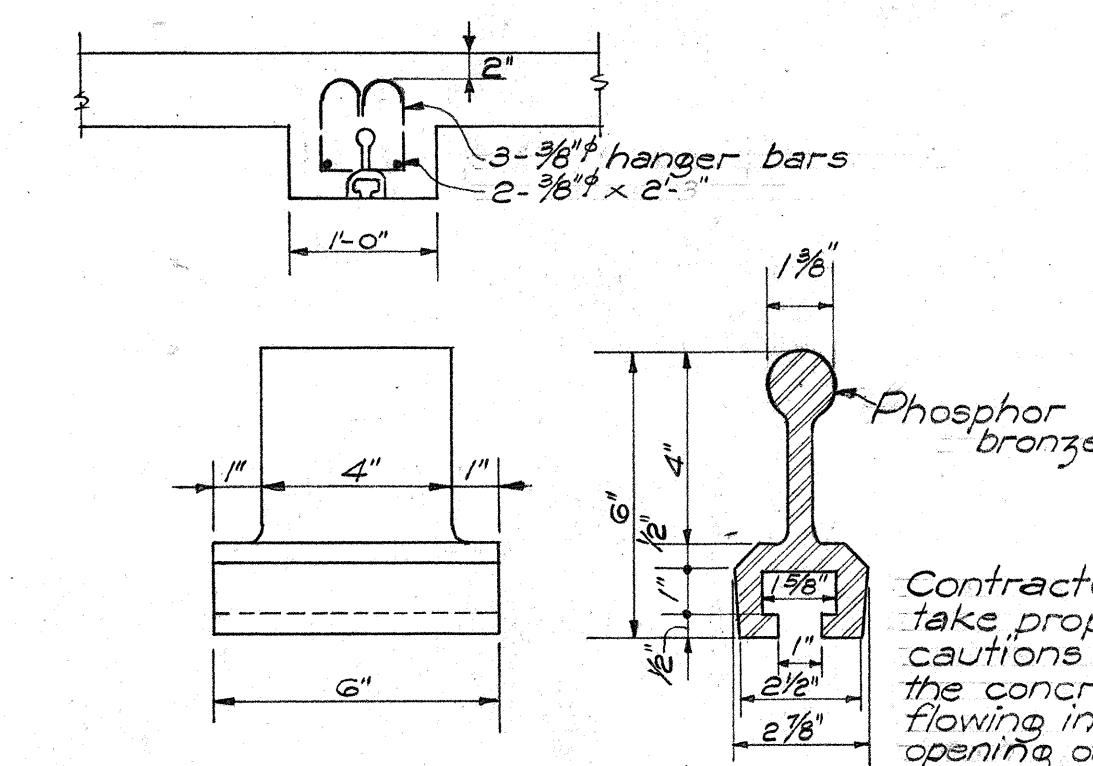
SECT. A-A OF CATCH BASIN

Scale $\frac{1}{2}'' = 1'-0''$



NOTE! Hangers to be placed close to bell of pipe.

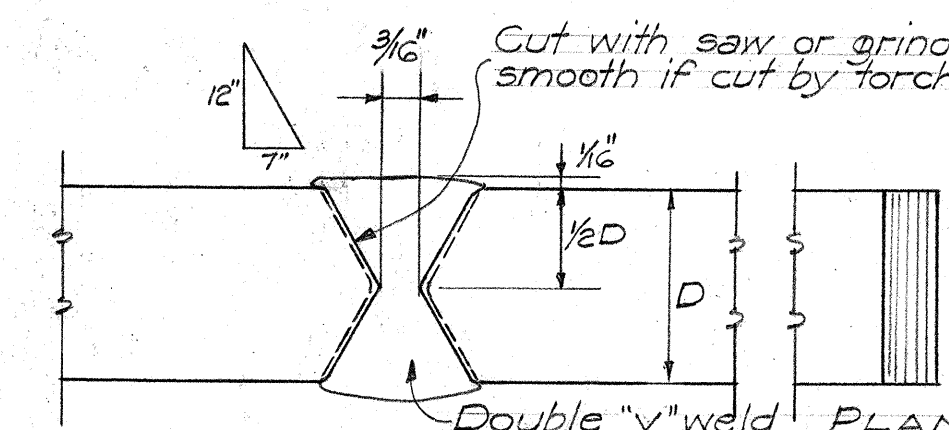
NOTE: Hangers to be placed close to bell of pipe.



DETAIL OF PIPE HANGERS & INSERTS

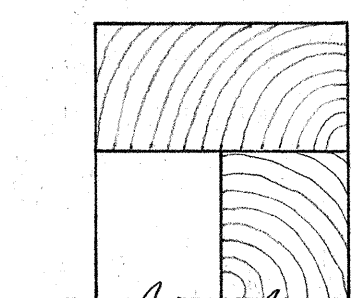
3/4" & 3" Scales

NOTE! Inserts, bolts, plates, nuts, & washers to be Phosphor Bronze conforming to the A.S.T.M. standards, Serial Designation B22-21 or the latest revision thereof, and shall be Class "D" grade.

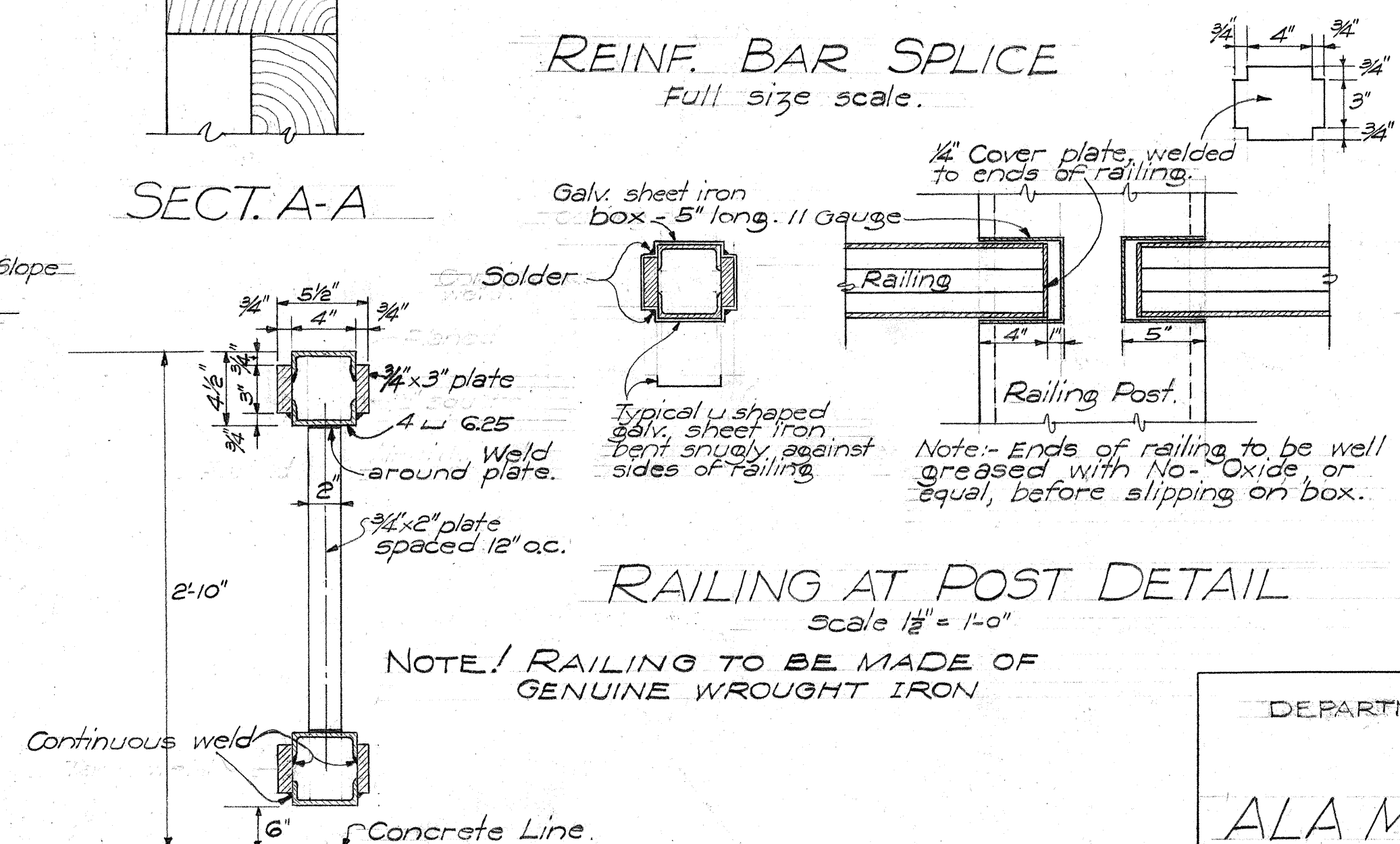


REINF. BAR SPLICE

Full size scale.



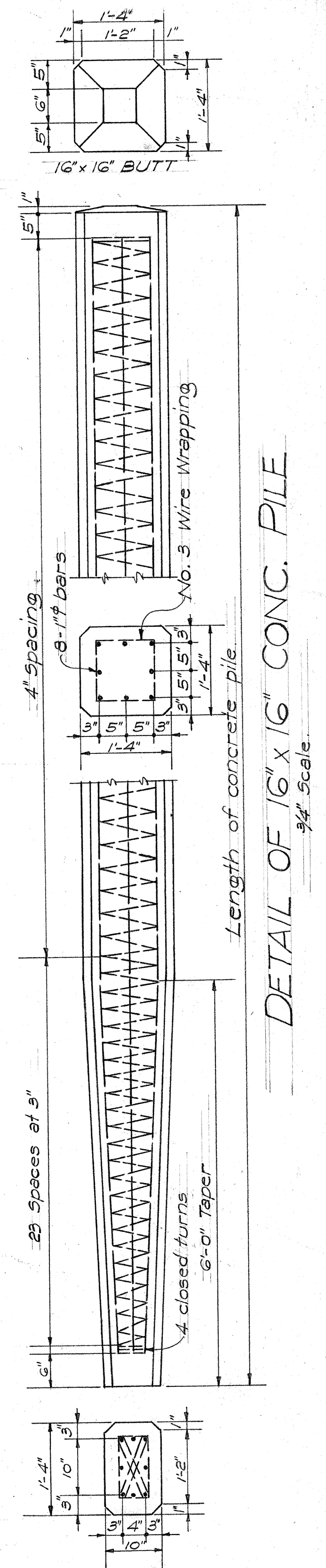
SECT. A-A



RAILING AT POST DETAIL

Scale $1\frac{1}{2}'' = 1'-0$

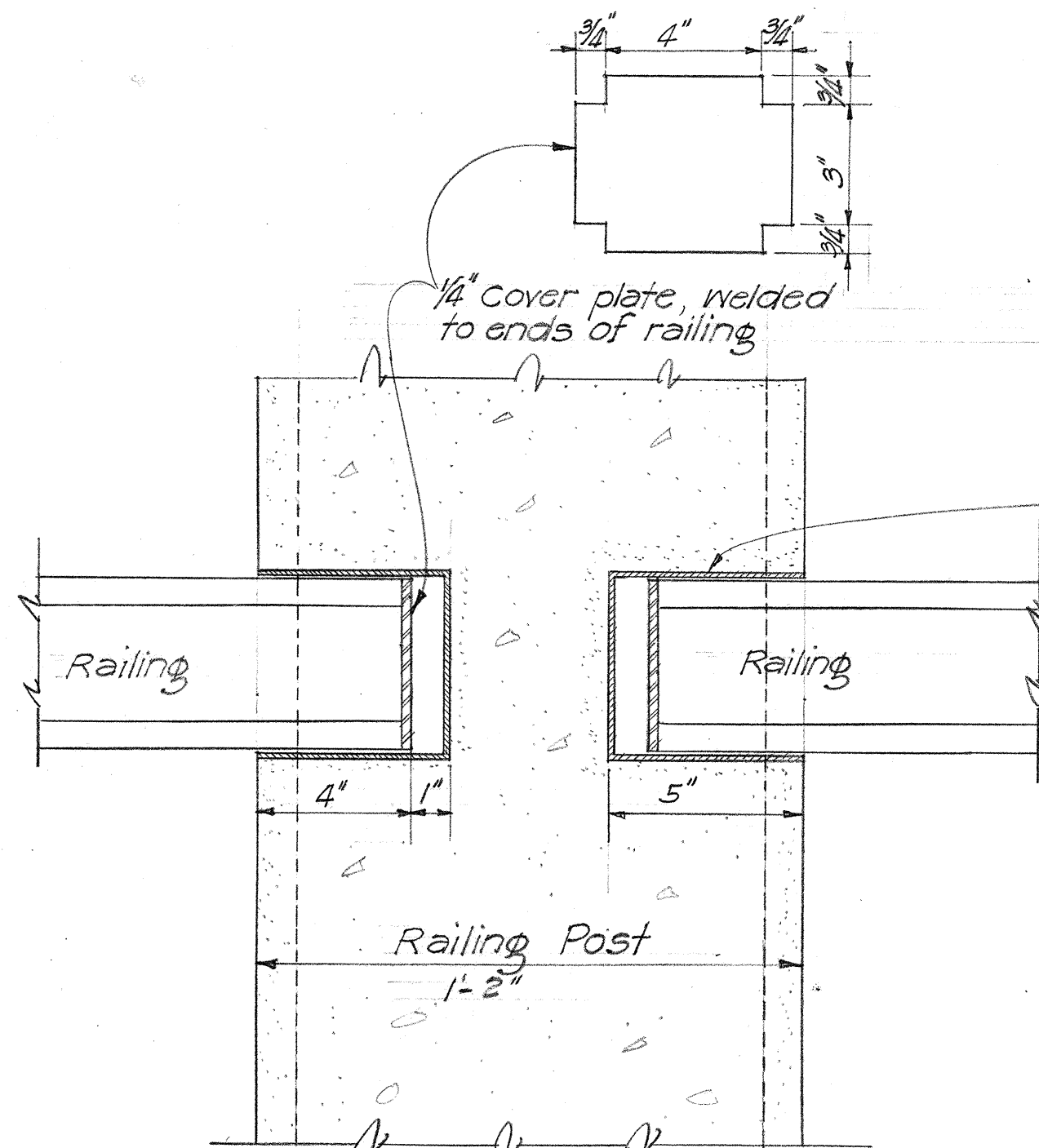
NOTE! RAILING TO BE MADE OF
GENUINE WROUGHT IRON



DETAIL OF 16" x 16" CONC. PILE

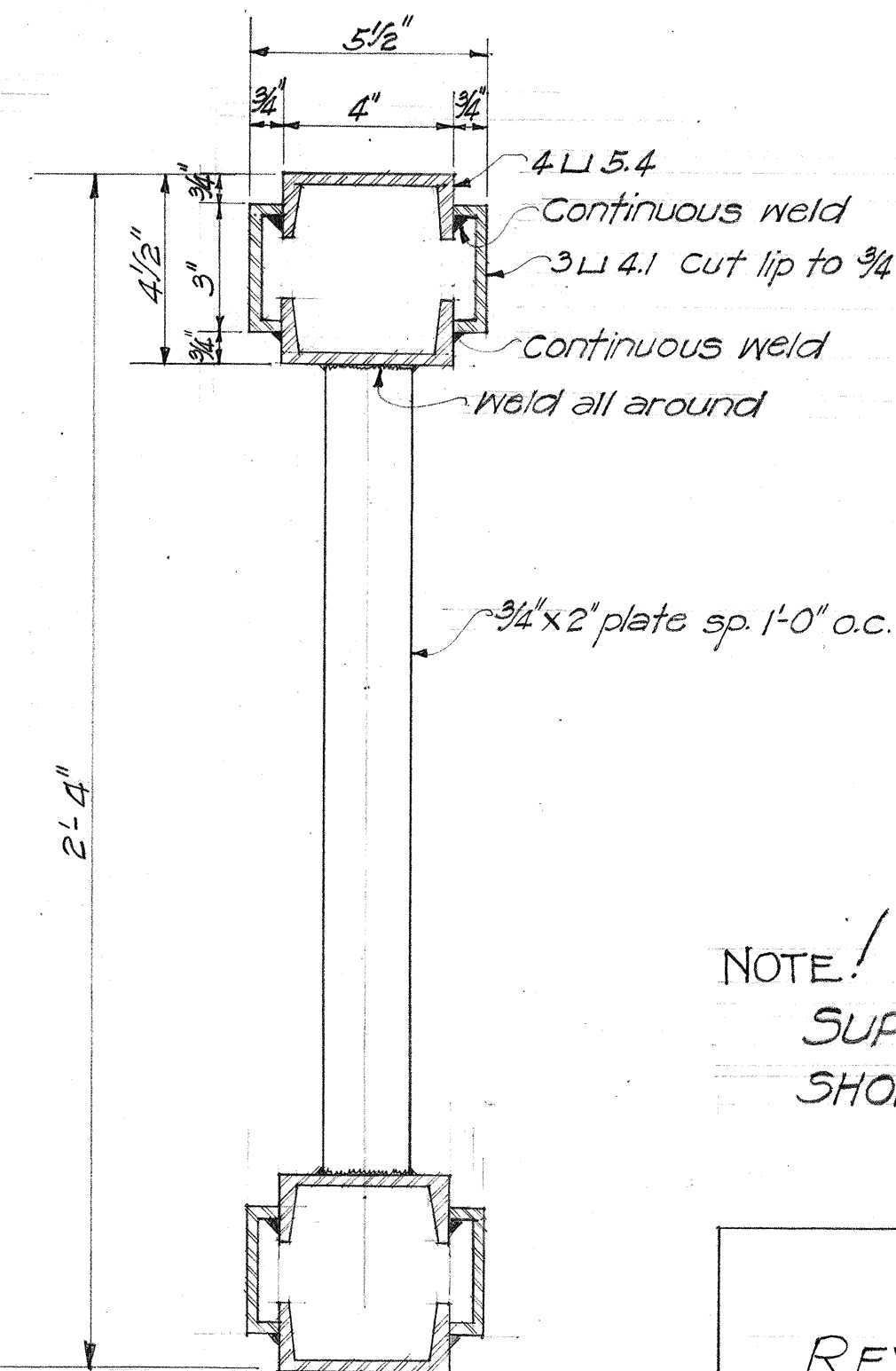
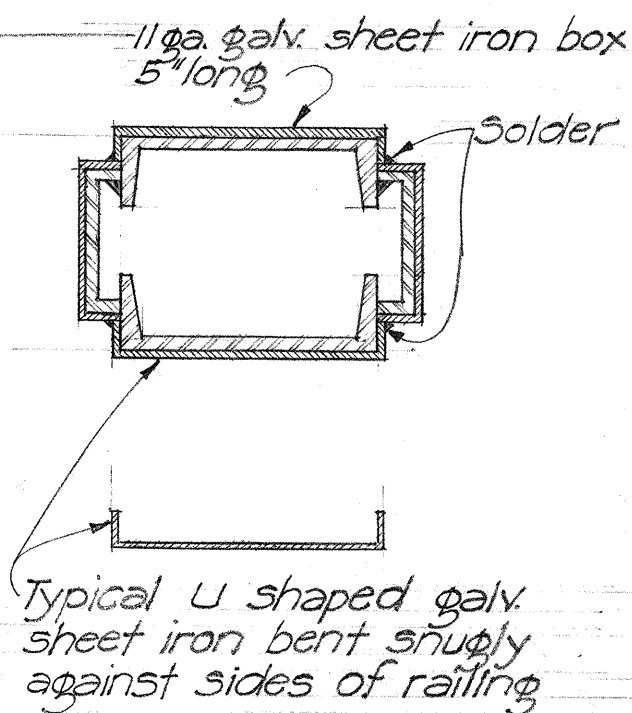
10 X 11 3/4" scale.

ORIGINAL PLAN	SURVEY PLOTTED BY..... DESIGNED BY <u>W.R. BARTHELEMS</u> DRAWN BY <u>T. TING</u>	DATE <u>7-198</u>
NOTE BOOK	QUANTITIES BY..... TRACED BY..... QUANTITIES CHECKED BY..... CHECKED BY.....	
No.		



NOTE! Ends of railing to be well greased with No-Oxide or equal before slipping on box.

RAILING AT POST DETAIL
3" = 1'-0"



RAILING DETAIL
3" = 1'-0"

NOTE! DETAILS ON THIS SHEET SUPERCEDE RAILING DETAILS SHOWN ON SHEET #4469.8

REVISED RAILING DETAILS
FOR ALA MOANA BRIDGE
Aug. 20, 1938