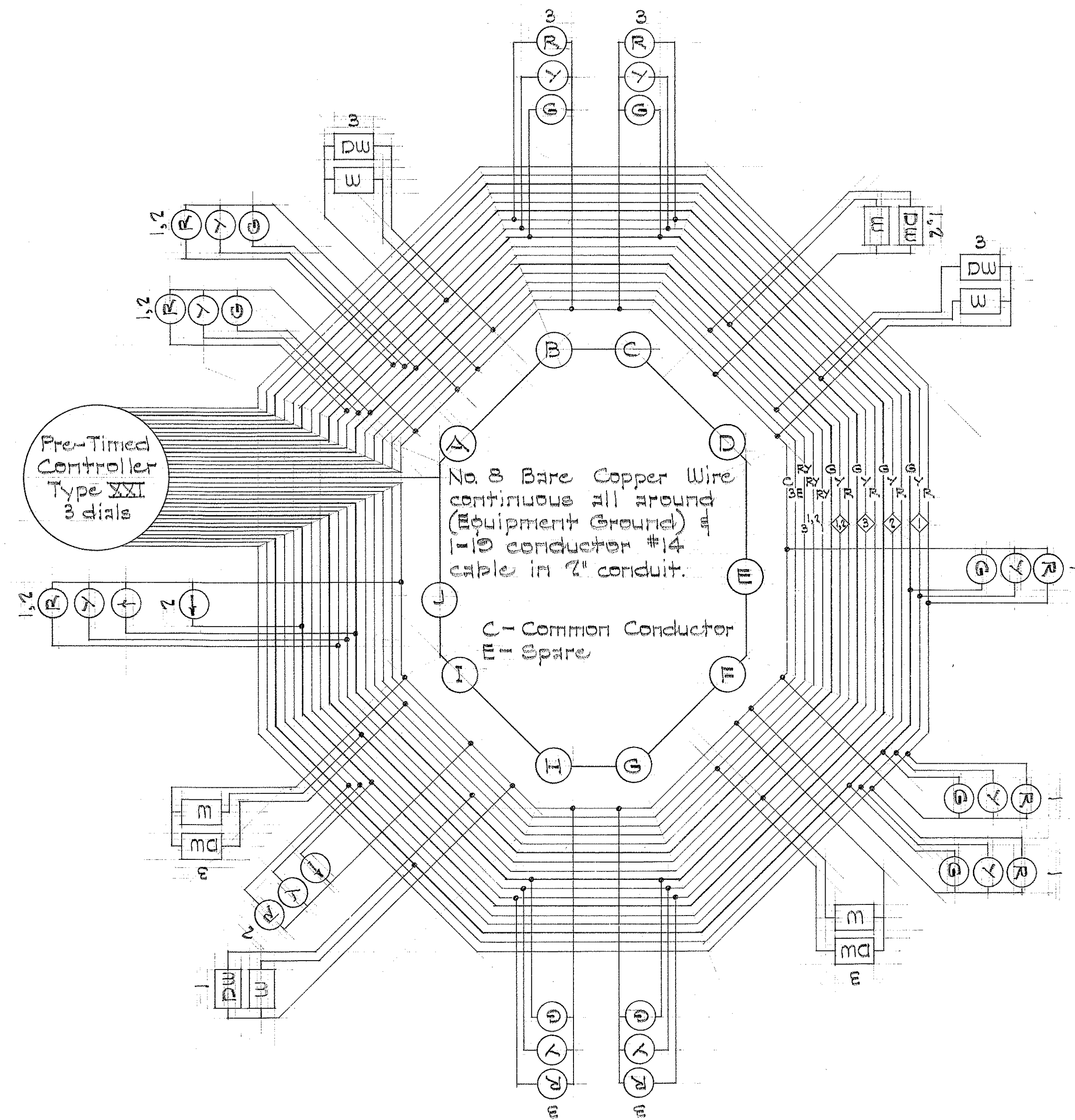




WIRING DIAGRAM

LEGEND

- New Mast Arm Standard 4 12' Lens Assembly. (Length of Mast Arm as indicated)
- New Traffic Signal Standard 4 12' Lens Assembly.
- New Traffic Signal Standard 4 'DW-W' Pedestrian Signal.
- New Type 'A' Pullbox.
- New Type 'B' Pullbox.
- Existing Pullbox.
- New Controller mounted on Pedestal.
- New Rigid Steel Conduit.
- New Rigid Steel or Polyvinyl Chloride Conduit (No. 4 size as indicated). Conduits under roadways shall be encased in concrete.
- Existing Traffic Signal Interconnecting Cable.
- Existing Sprinkler System.
- Existing Sprinkler System to be removed.
- Existing Water Line.
- Existing Sewer Line.
- Existing State Highway Lighting Cable.
- Existing Hawaiian Electric Co. Duct Line.
- Existing Hawaiian Telephone Co. Duct Line.
- Existing Gas Line.
- Existing Electric Pole.
- Existing Chain Link Fence.

GENERAL NOTES

- Location of existing underground structures such as culverts, pipelines, conduits, cables, etc., as shown on the plans are approximate only; other existing utilities may not be shown. The Contractor shall check and verify the location of same.
- The exact location of traffic signal standards, controller pedestal, pullboxes and conduits shall be determined in the field by the Engineer.
- Payment markings by others.
- Existing signs not incorporated in the traffic signal system shall be removed unless otherwise noted. (All costs incidental to the various contract items.)

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS

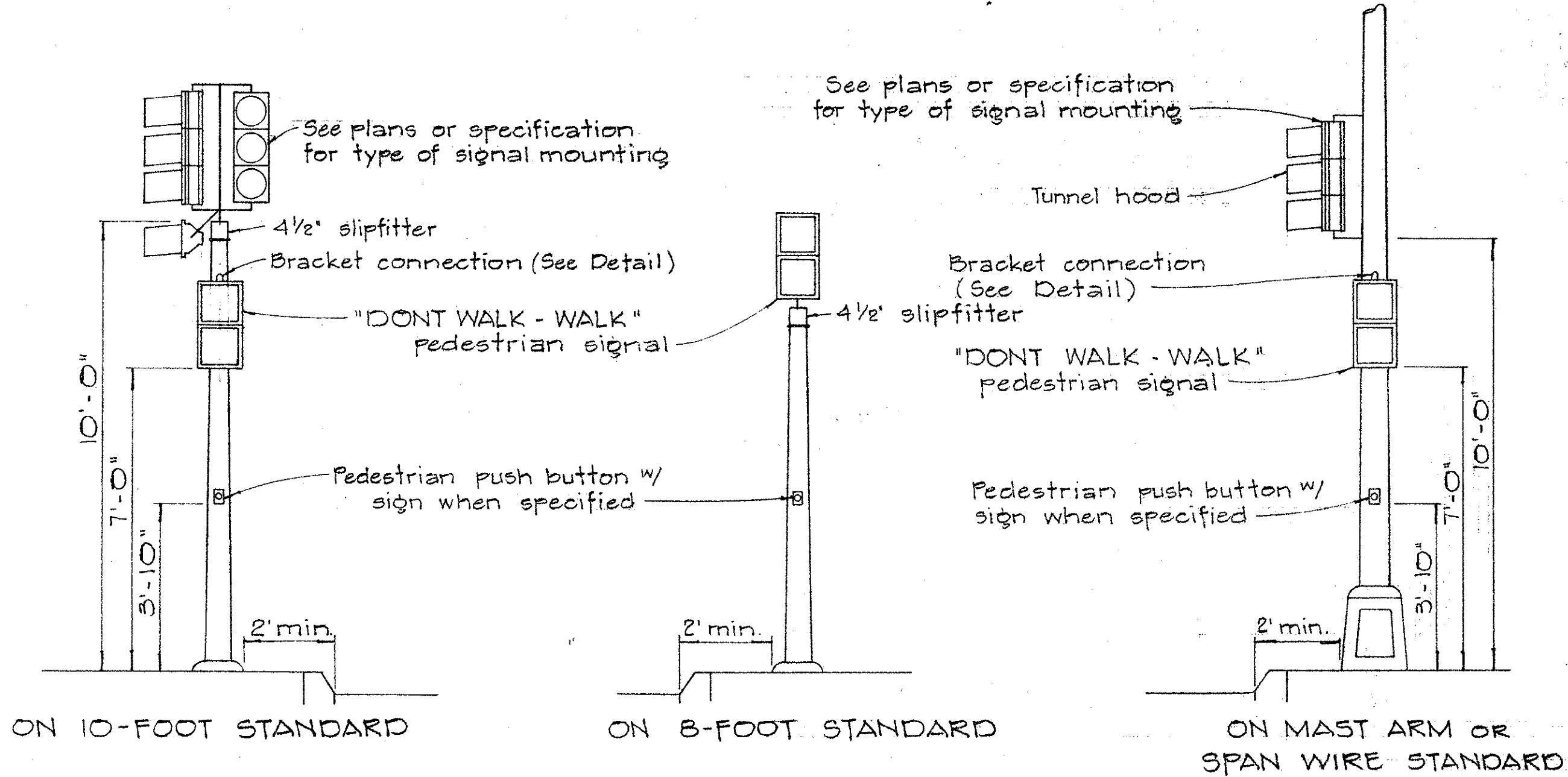
VINEYARD BOULEVARD
AT
PUA LANE

Project No. F-098-1(7)

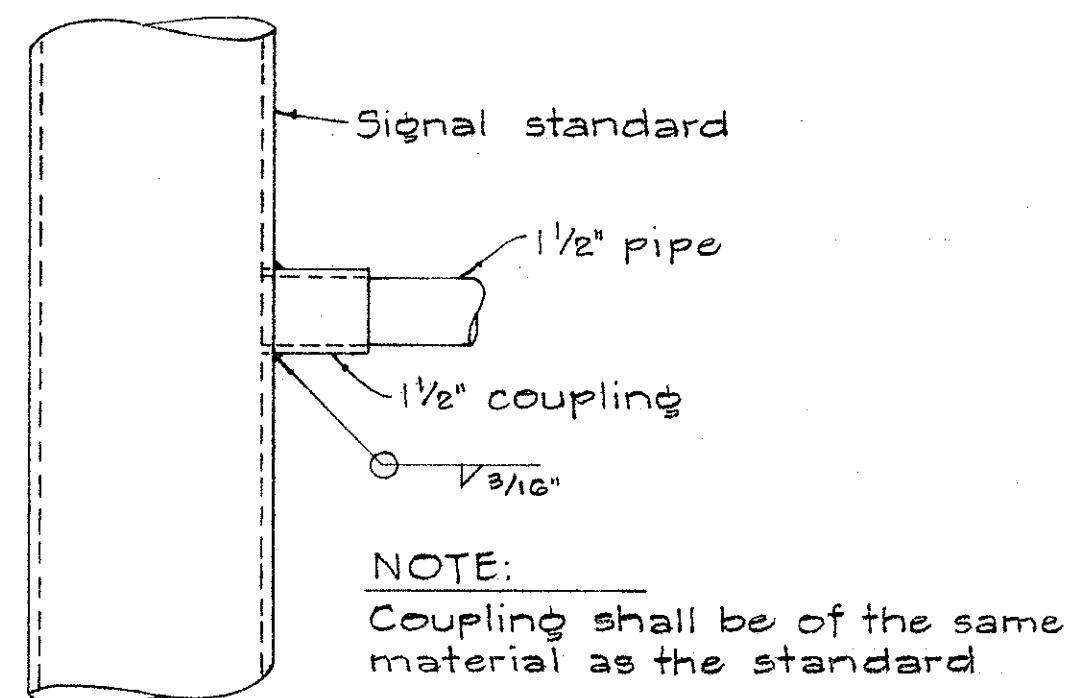
No Scale April 1967

SHEET No. 4 OF 8 SHEETS

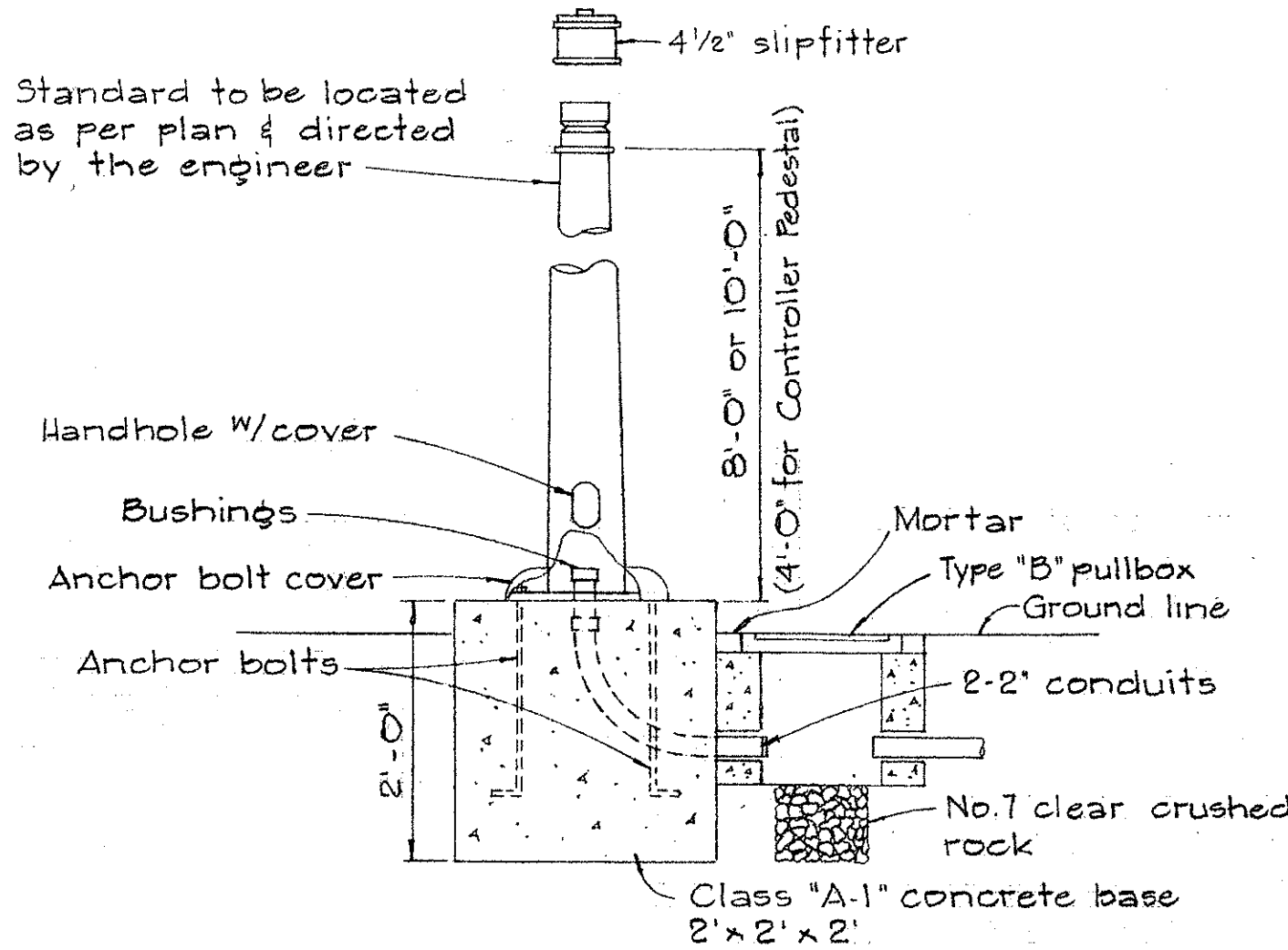
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-008-1(1)	1967	5	8



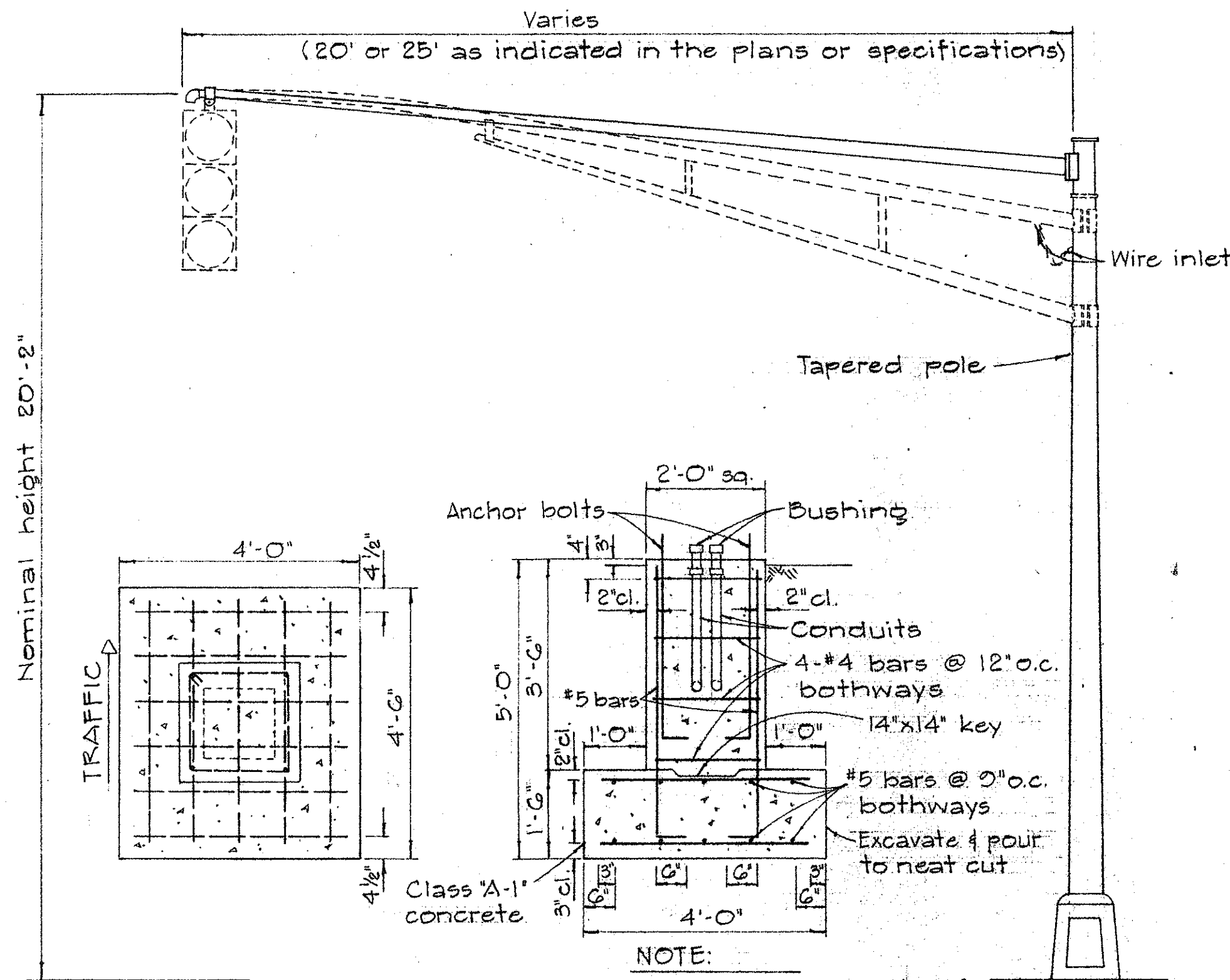
TYPICAL EQUIPMENT MOUNTINGS



DETAIL OF BRACKET CONNECTION

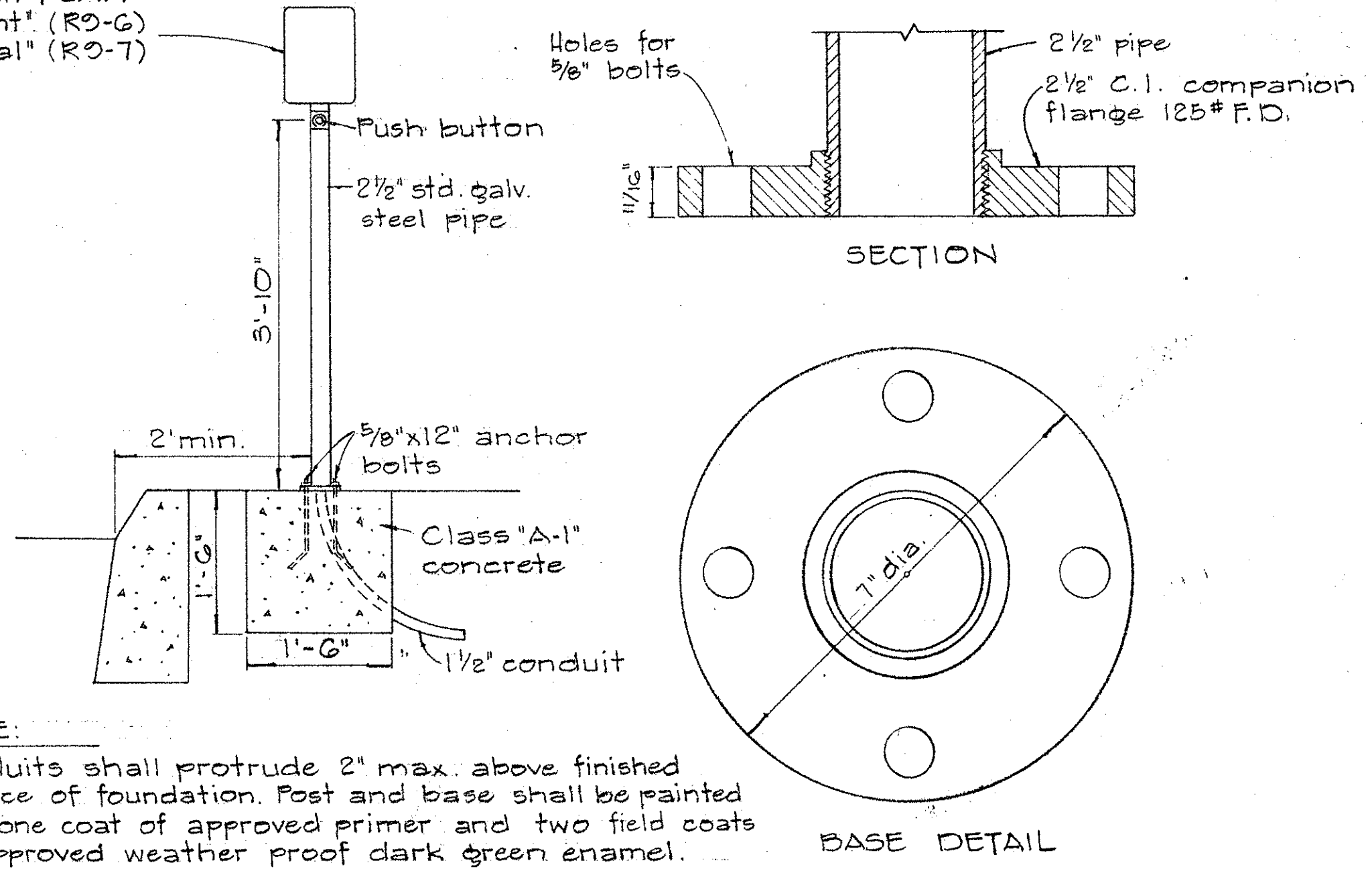


BASE FOR SIGNAL STANDARD OR CONTROLLER PEDESTAL

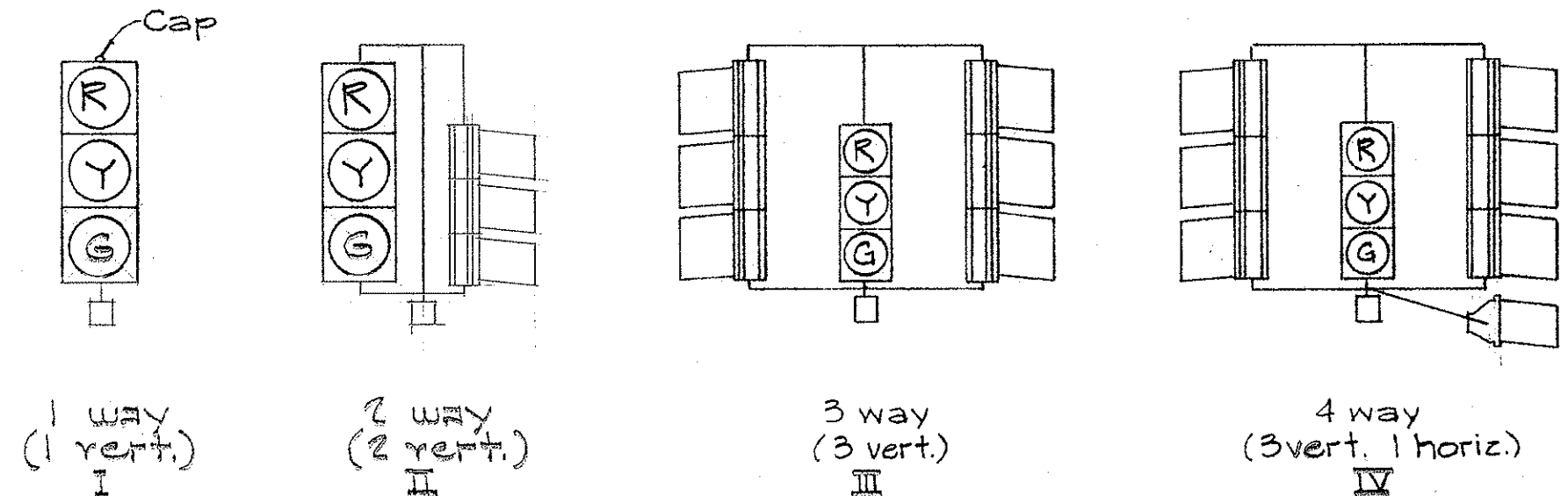


MAST ARM FOOTING AND STANDARD

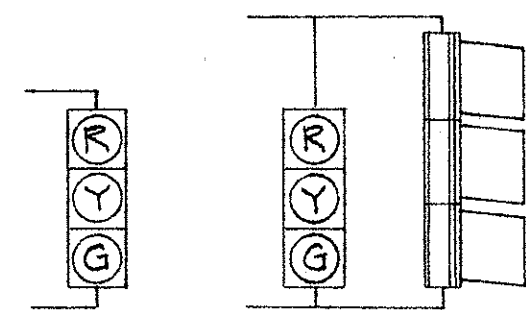
TRAFFIC SIGN AS SPECIFIED IN PLAN
1. "Push button for green light" (R3-G)
2. "Push button for walk signal" (R3-7)



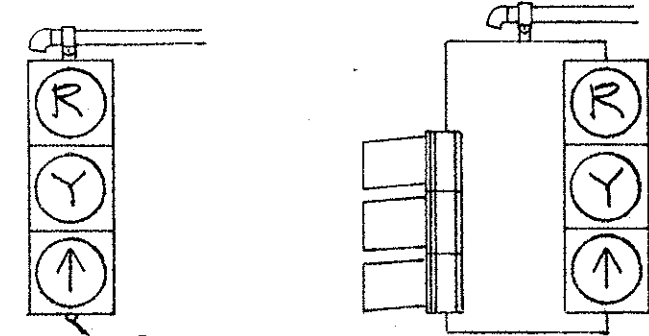
PEDESTRIAN PUSH BUTTON POST



SLIPFITTER MOUNTINGS

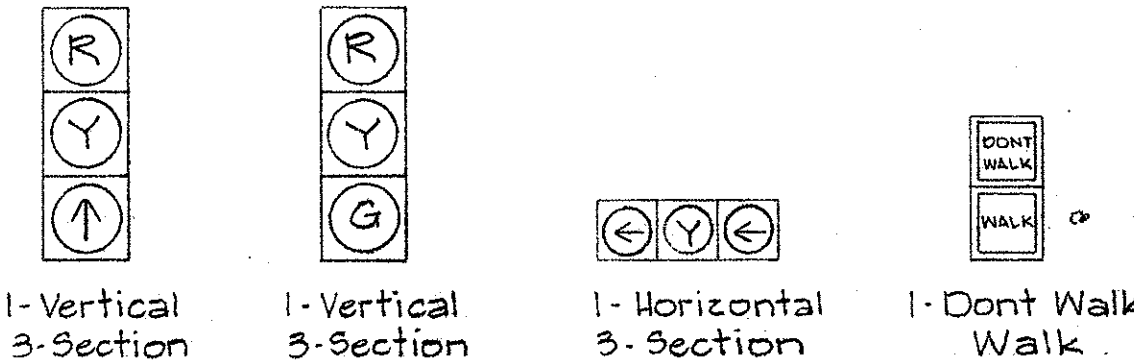


BRACKET MOUNTINGS



MAST ARM MOUNTINGS

TYPICAL VEHICULAR AND PEDESTRIAN SIGNAL MOUNTINGS



TYPICAL SIGNAL ARRANGEMENTS

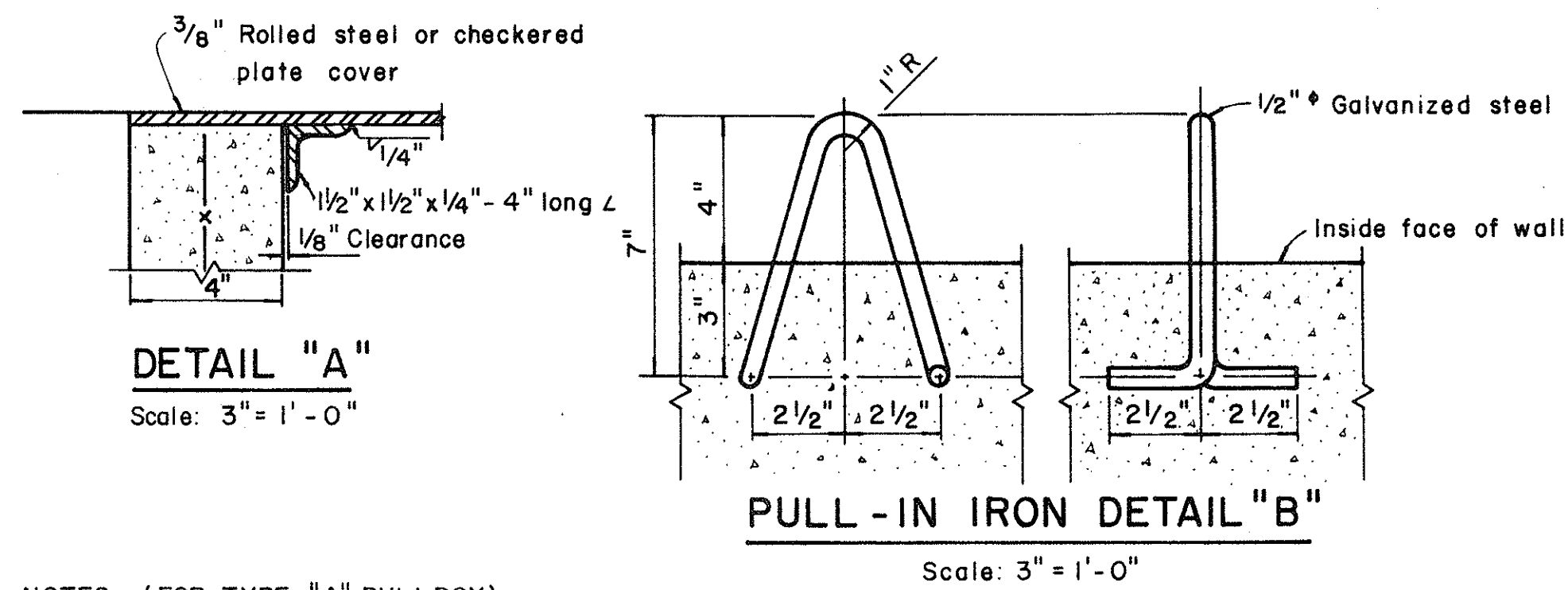
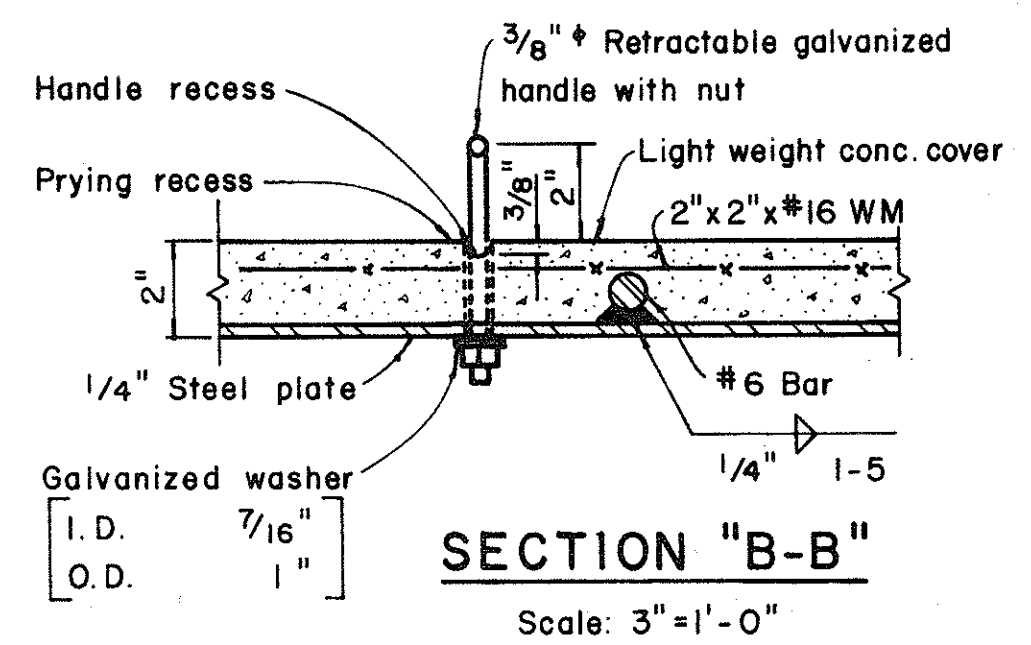
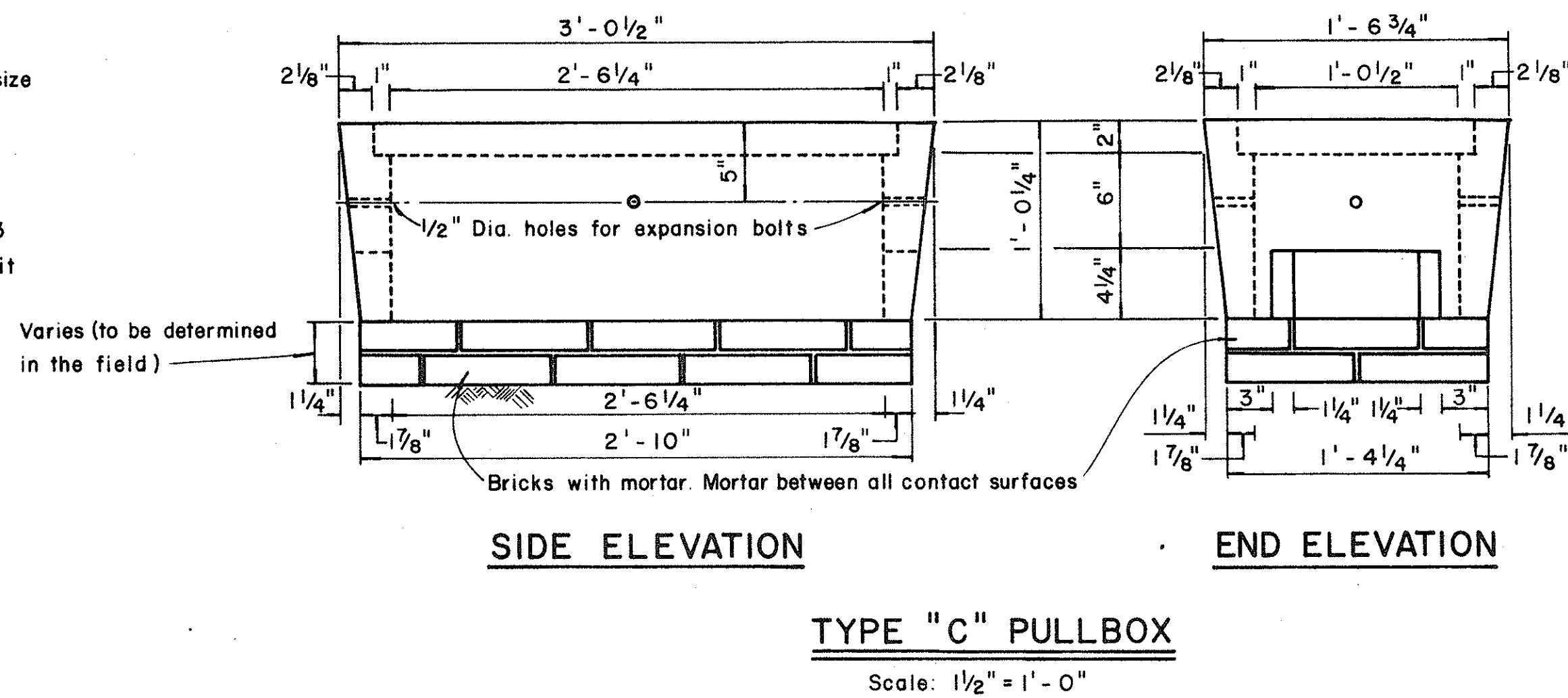
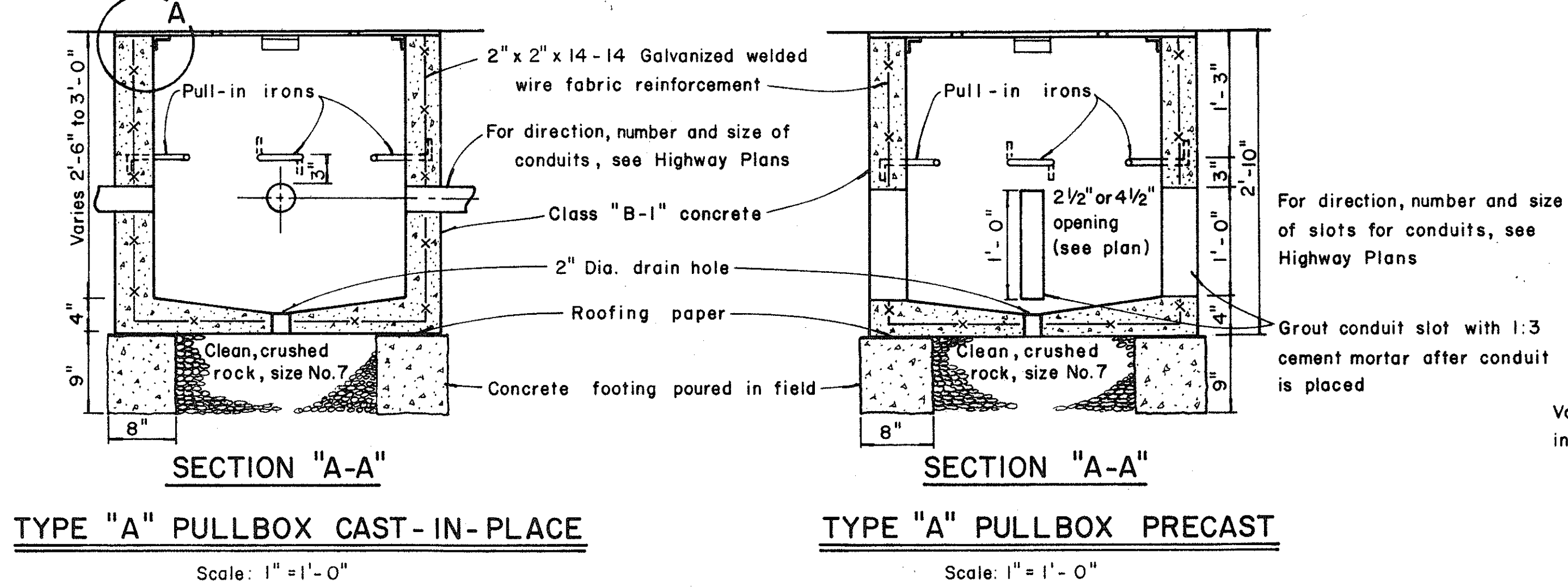
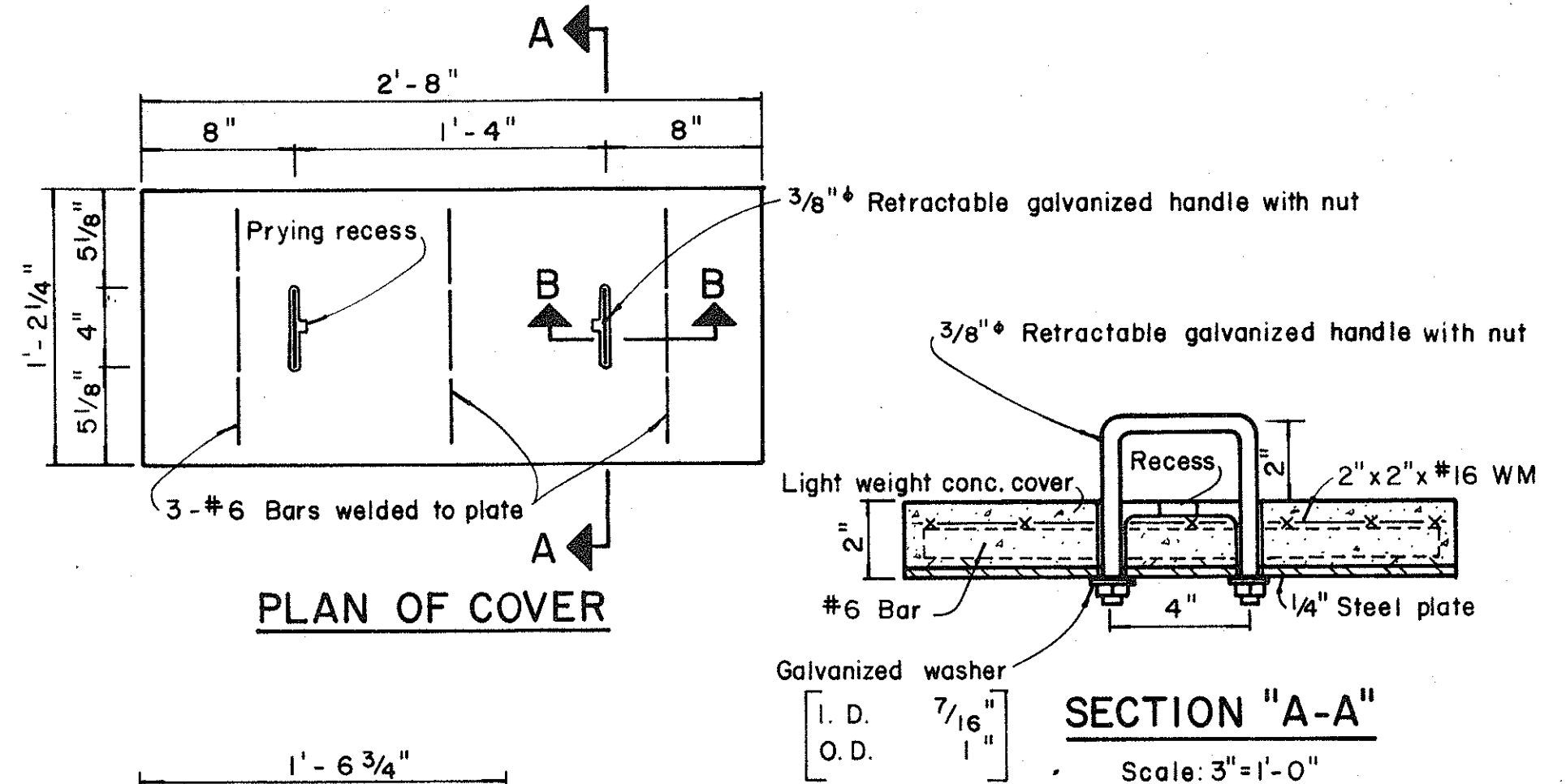
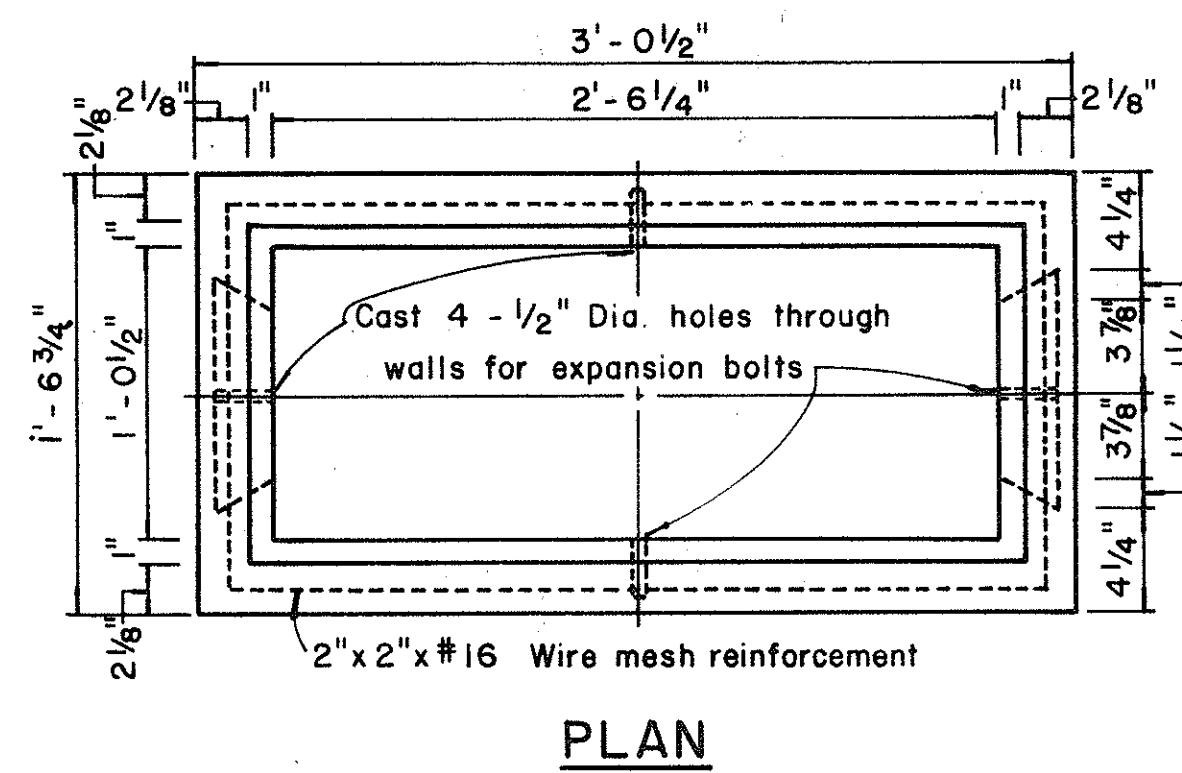
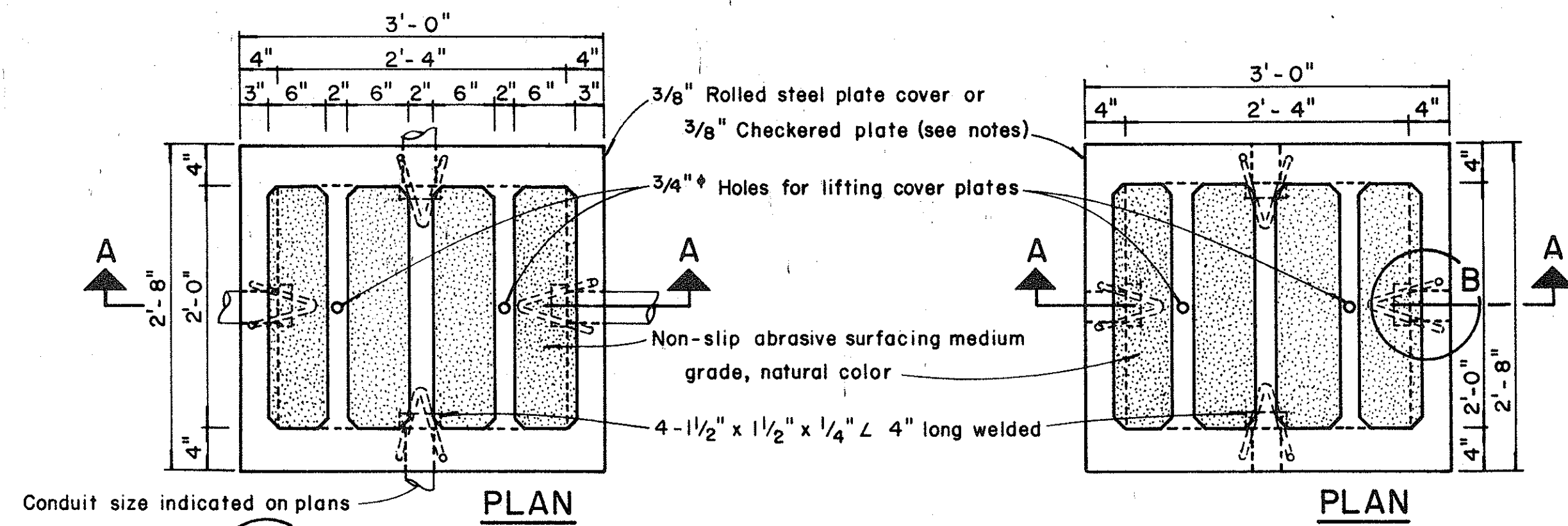
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNAL SYSTEM
MISCELLANEOUS DETAILS

Not to scale
SHEET No. 5 OF 8 SHEETS

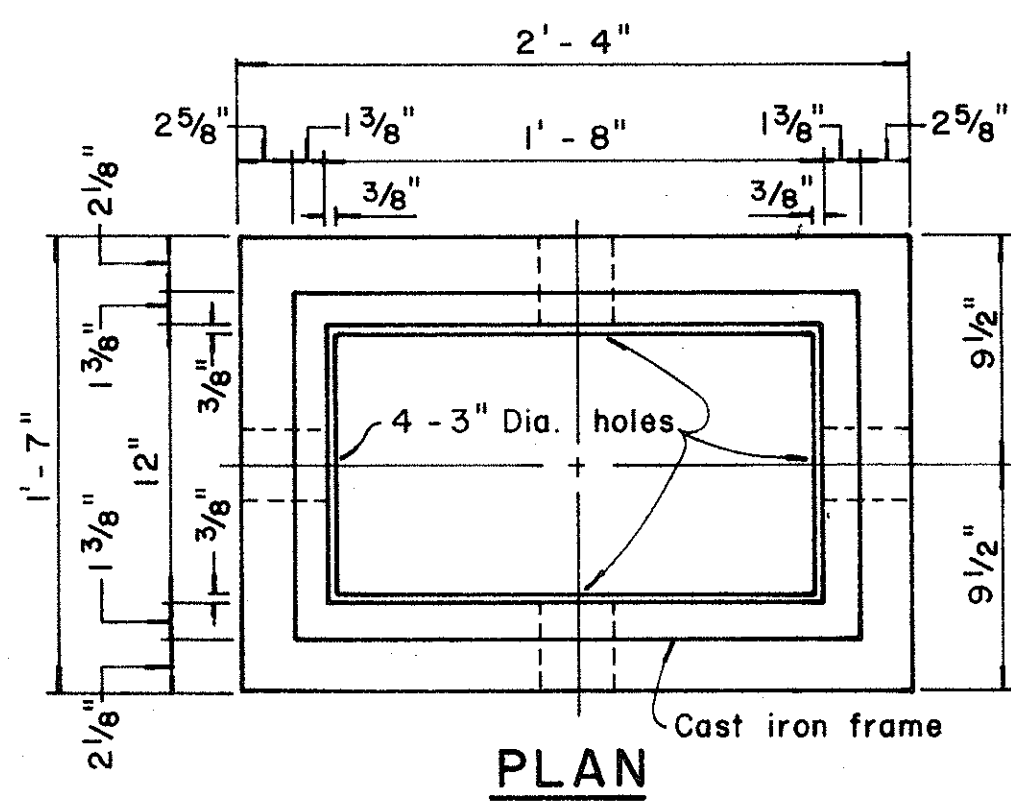
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
CHECKED BY	
NOTE BOOK	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-028-1(7)	1967	6	8



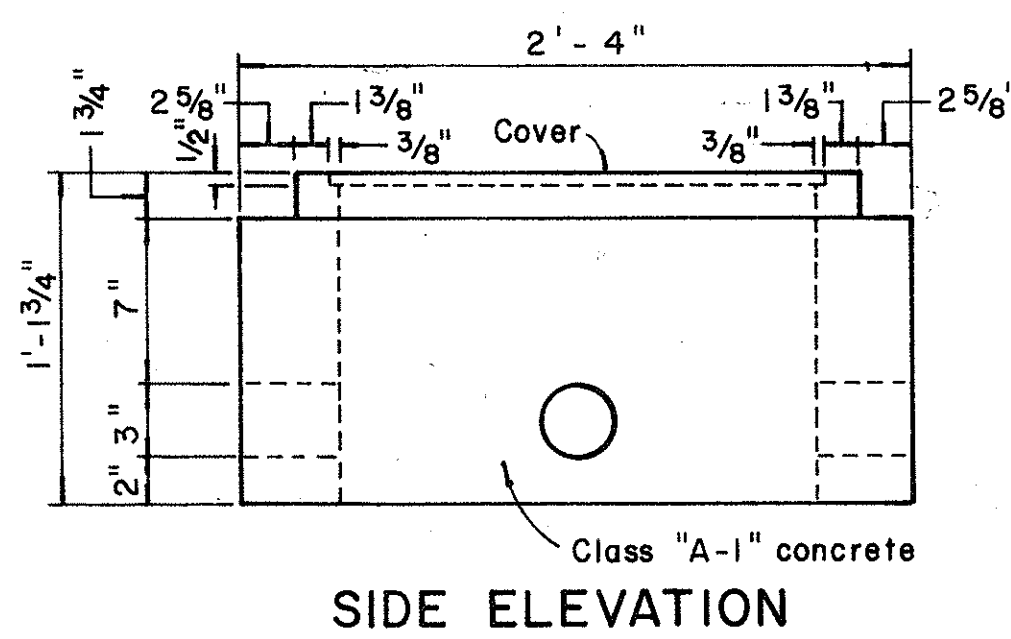
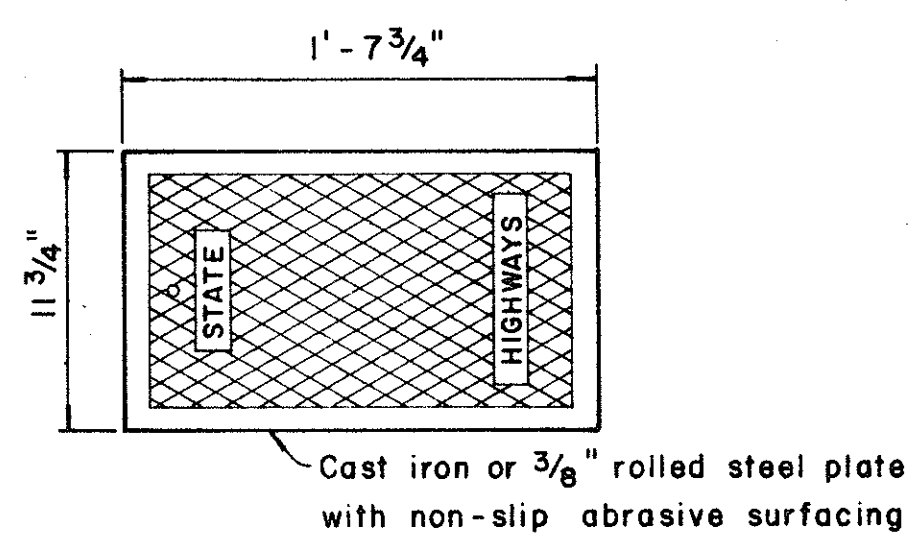
- NOTES: (FOR TYPE "A" PULLBOX)

1. $\frac{3}{8}$ " Rolled steel plate cover with non-slip abrasive surfacing medium grade, natural color shall be used on all pullboxes located on sidewalk areas where pedestrians are walking.
2. $\frac{3}{8}$ " Checkered plate cover shall be used on all pullboxes located in median areas and other locations where there are no pedestrians walking.
3. Pull irons shall be placed opposite each conduit slot.
4. Covers on all pullboxes located in sidewalk areas shall be set flush with the concrete sidewalk.
5. Each pullbox shall have a pair of pull irons opposite each other for lifting purposes.



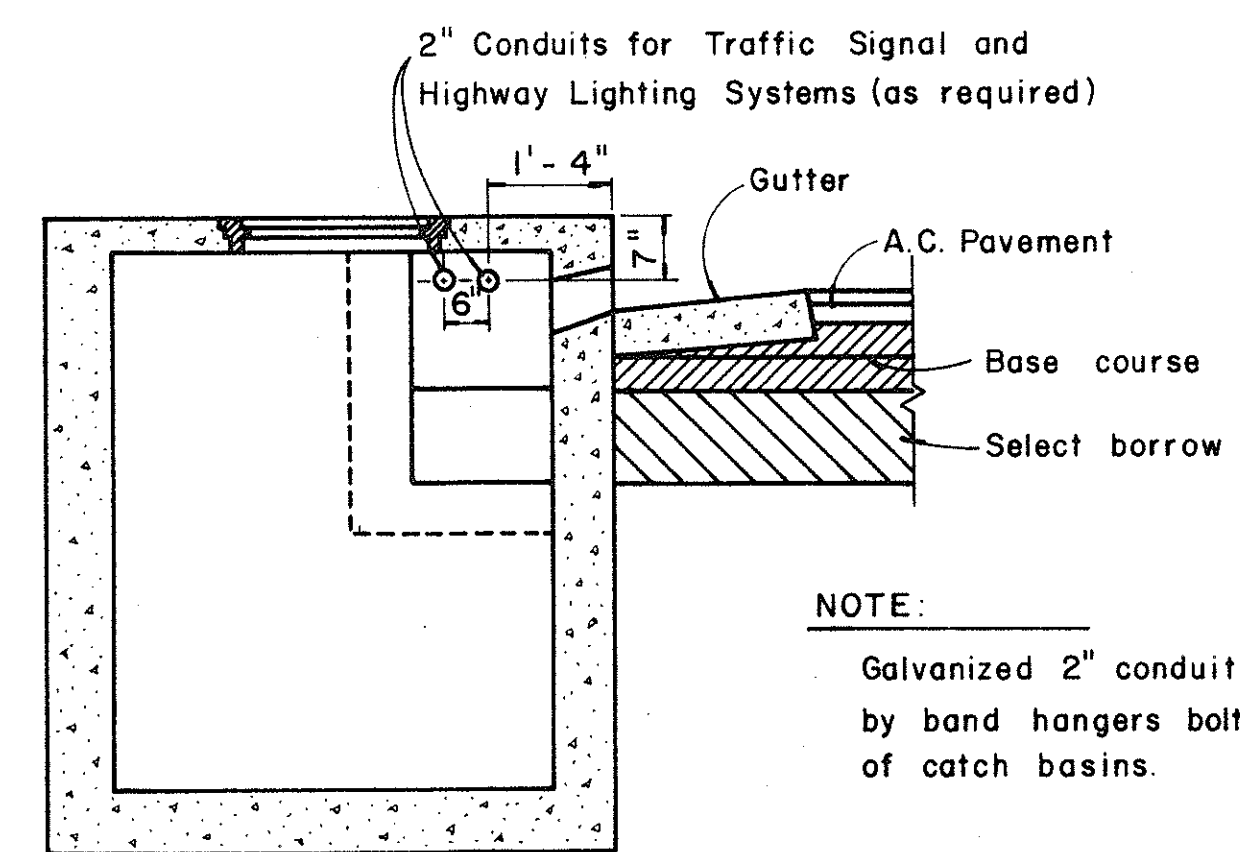
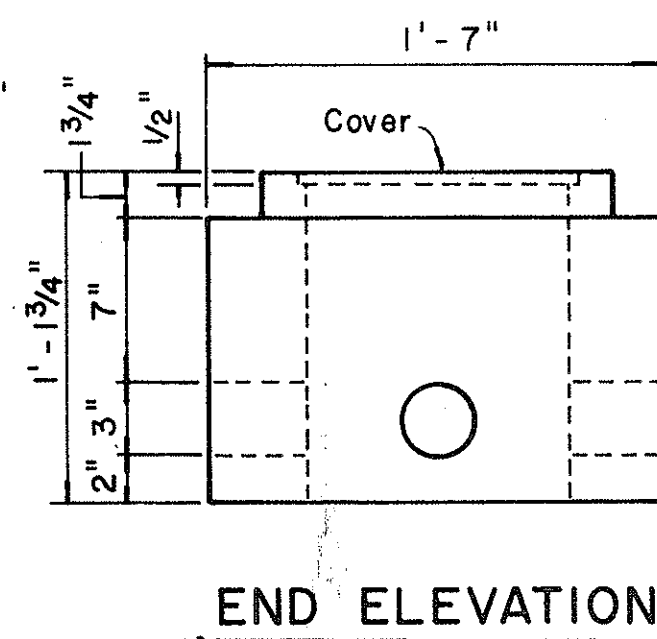
NOTE:

Steel rim shall be welded to bottom of steel cover if necessary so that top of cover and frame are flush.



TYPE "B" PULLBOX

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



NOTE:

Galvanized 2" conduits shall be supported by band hangers bolted to the top slab of catch basins.

TYPICAL SECTION SHOWING CONDUITS
PASSING THROUGH CATCH BASINS

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS

PULLBOXES

Scale as noted

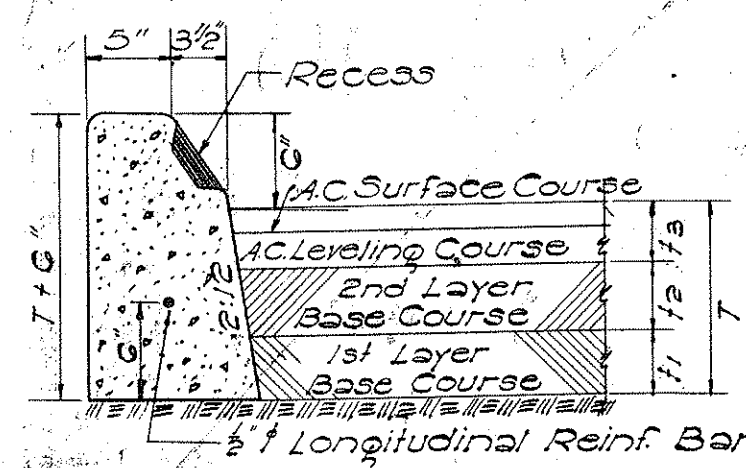
Date:

SHEET No. 6 OF 8 SHEETS

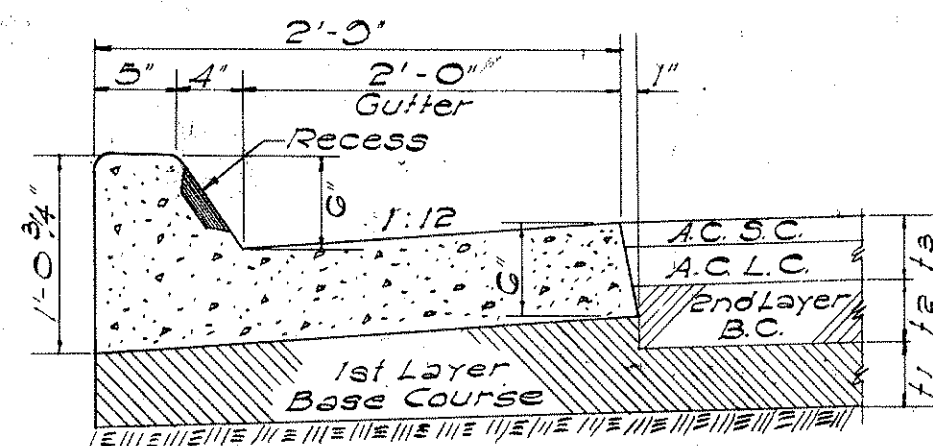
2/17/97
9/22/01

STATE	FED. AID	FISCAL	SHEET	TOTAL
HI	100	100	100	100

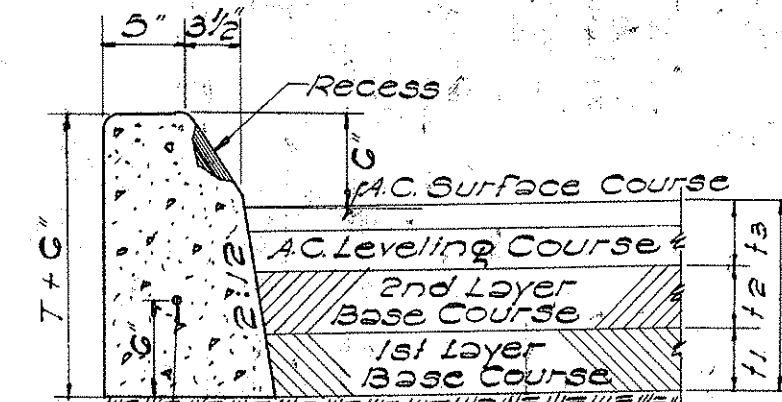
AUG 1957



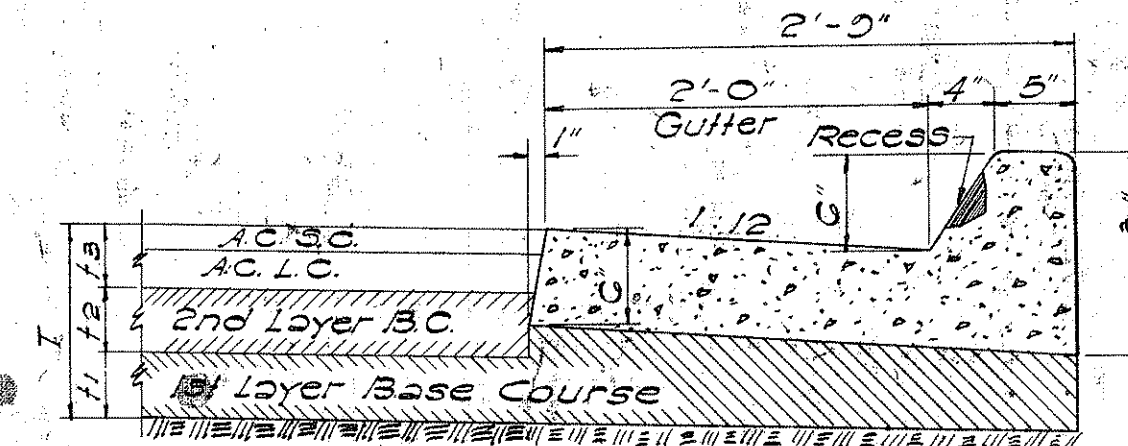
TYPE "A" & "B" CURB
SCALE: 1" = 1'-0"



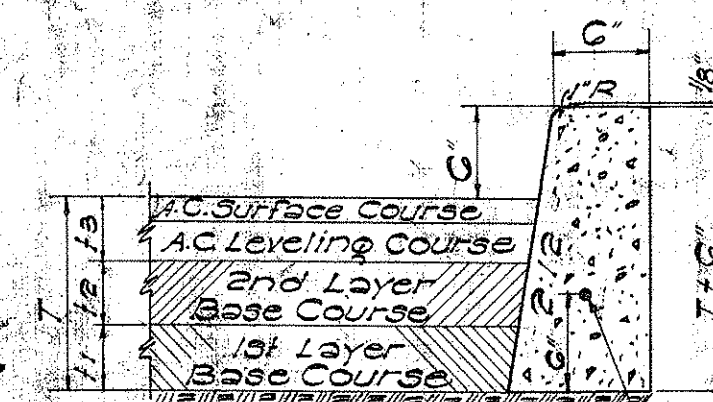
TYPE "AG" & "BG" CURB & GUTTER
SCALE: 1" = 1'-0"



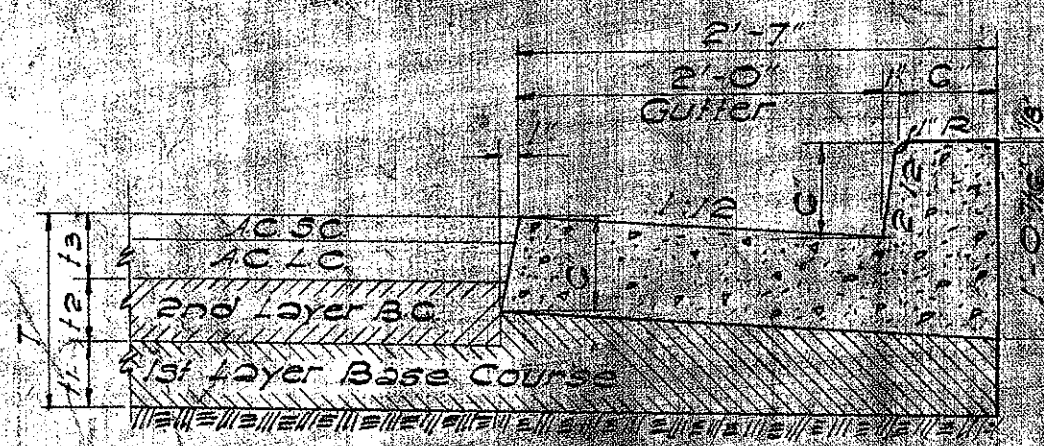
TYPE "C" CURB
SCALE: 1" = 1'-0"



TYPE "CG" CURB & GUTTER
SCALE: 1" = 1'-0"

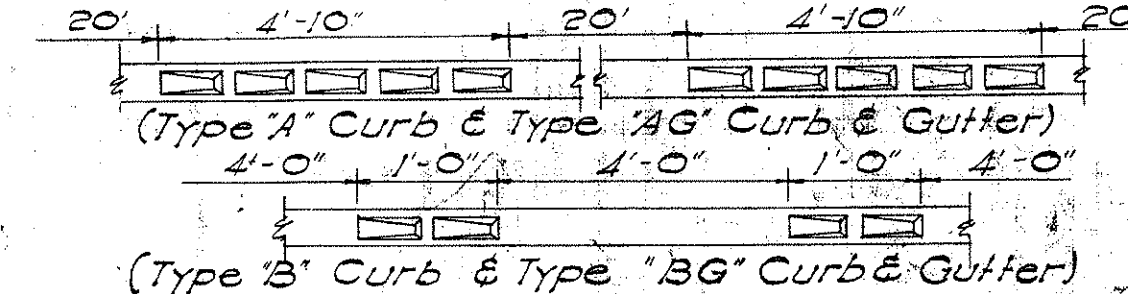


TYPE "D" CURB
SCALE: 1" = 1'-0"

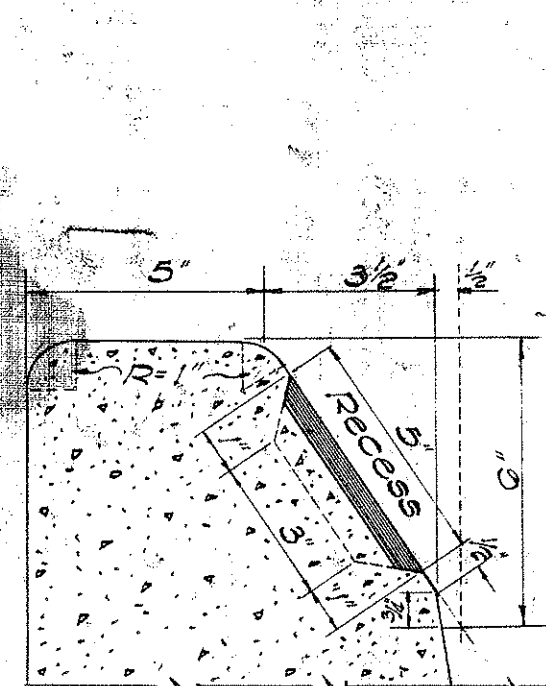


TYPE "DG" CURB & GUTTER
SCALE: 1" = 1'-0"

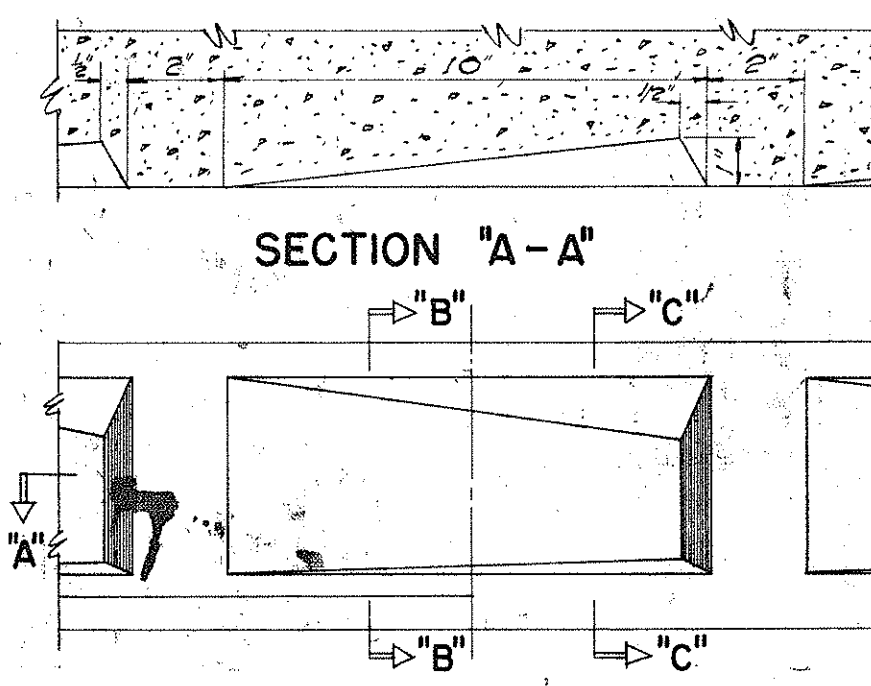
General Note Covering All Types of Curbs:
Occasionally curb rests on first layer of base course. See typical sections.



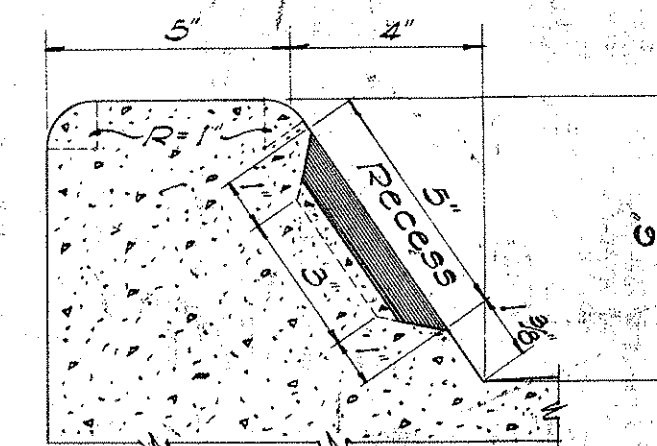
TYPE AND SPACING OF RECESSES



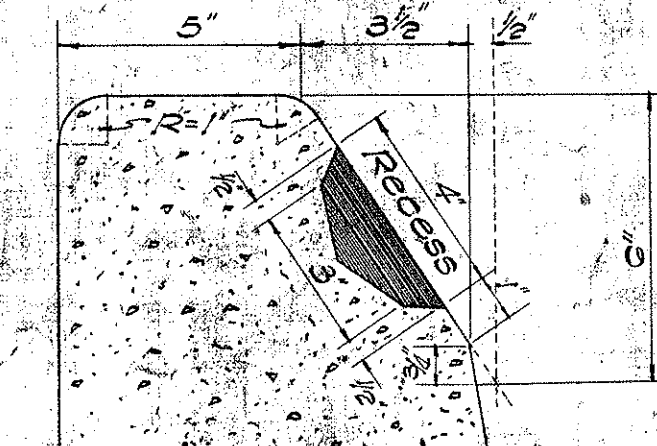
SECTION "B-B"
TYPE "A" & "B" CURB



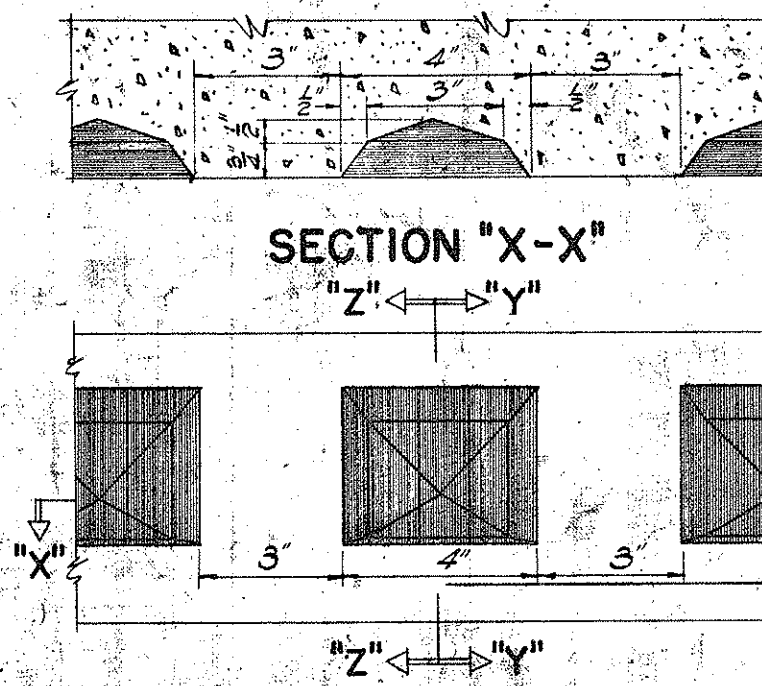
ELEVATION
SCALE: 3" = 1'-0"



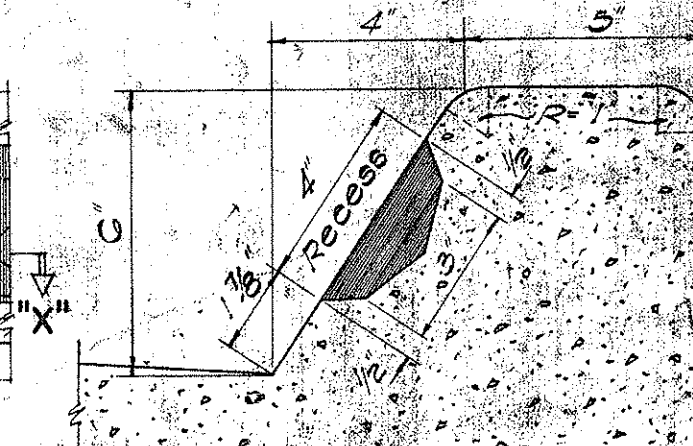
SECTION "C-C"
TYPE "AG" & "BG" CURB



SECTION "Y-Y"
TYPE "C" CURB

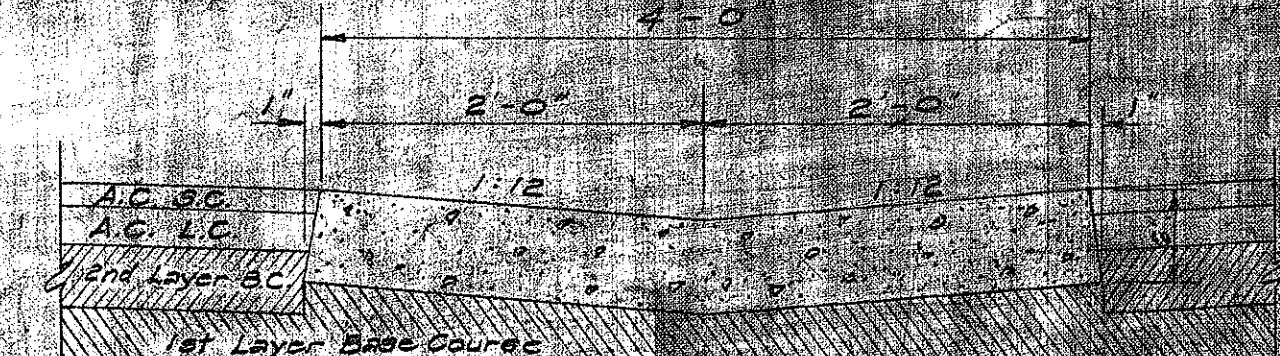


SECTION "X-X"
SCALE: 3" = 1'-0"



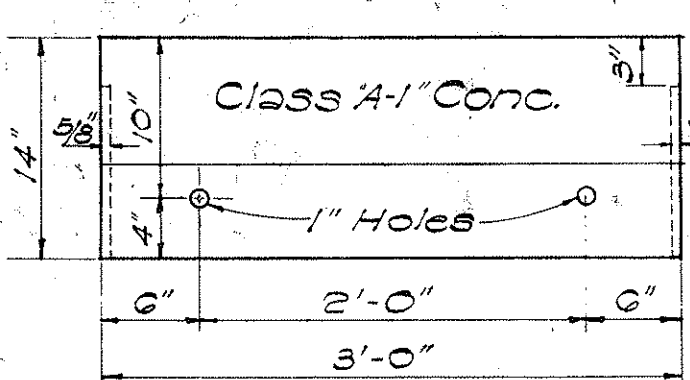
SECTION "Z-Z"
TYPE "CG" CURB

NOTES:
1) Types "AG", "BG", "CG", "DG" and "EG" Concrete Curbs and Gutters are to be poured monolithically.
2) Types "A", "B" and "C" Curbs and Types "AG", "BG" and "CG" Curbs and Gutters occur at Median Strips and Traffic Islands.
3) Shaded area in Curbs are to be painted with an approved white lacquer (One Coat).
4) All Cone Curbs and Gutters shown herein are to be of Class "A-1" Conc. and Cast in Place.

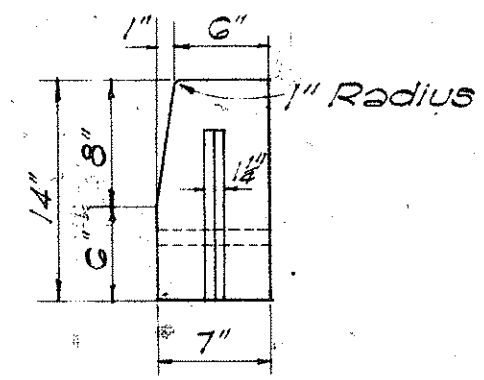


TYPE "G" GUTTER
SCALE: 1" = 1'-0"

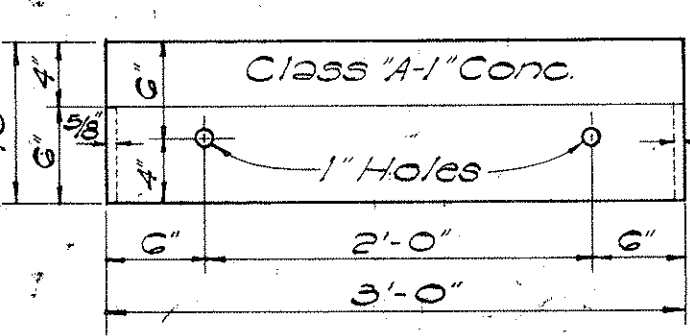
DETAILS OF CAST-IN-PLACE CONC. CURBS AND GUTTERS



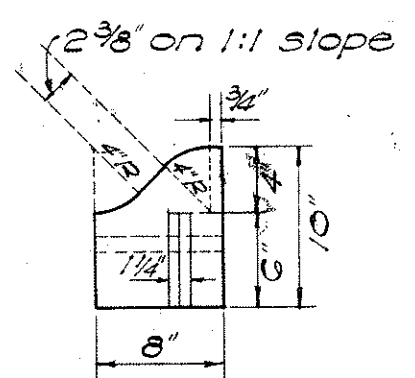
FRONT ELEV.
PRECAST CONC. CURB
SCALE: 1" = 1'-0"



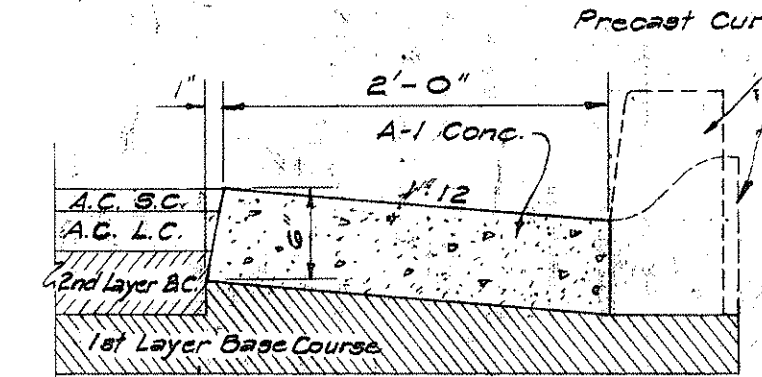
END ELEV.



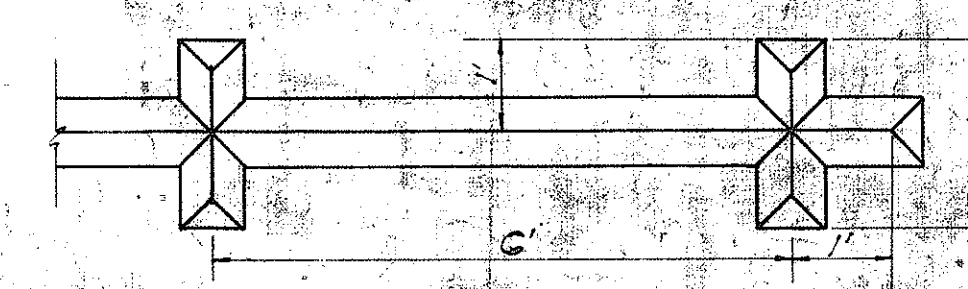
FRONT ELEV.
PRECAST CONC. ROLL CURB
SCALE: 1" = 1'-0"



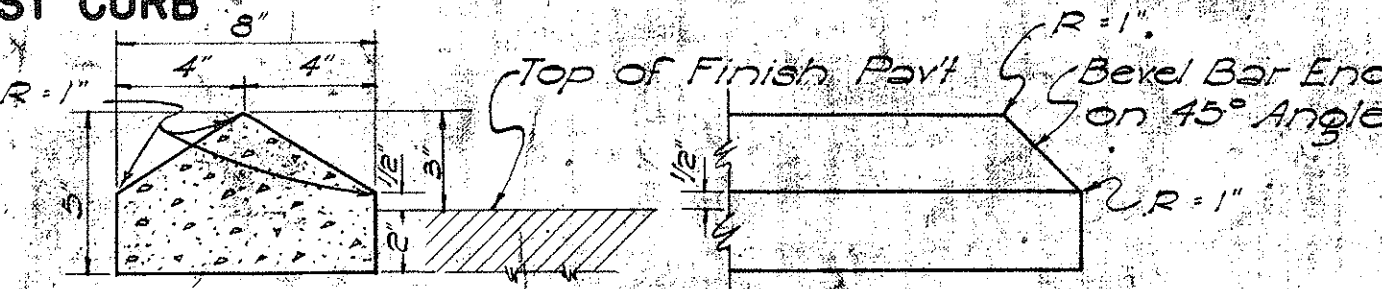
END ELEV.



TYPE "F" GUTTER
FOR PRECAST CURB



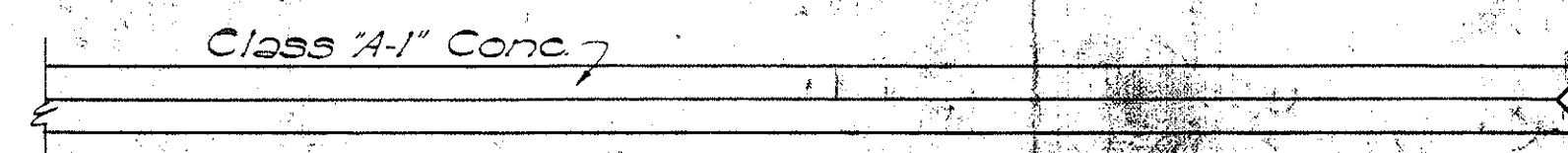
PLAN
SCALE: 1/2" = 1'-0"



SECTION
RAISED TRAFFIC BARS

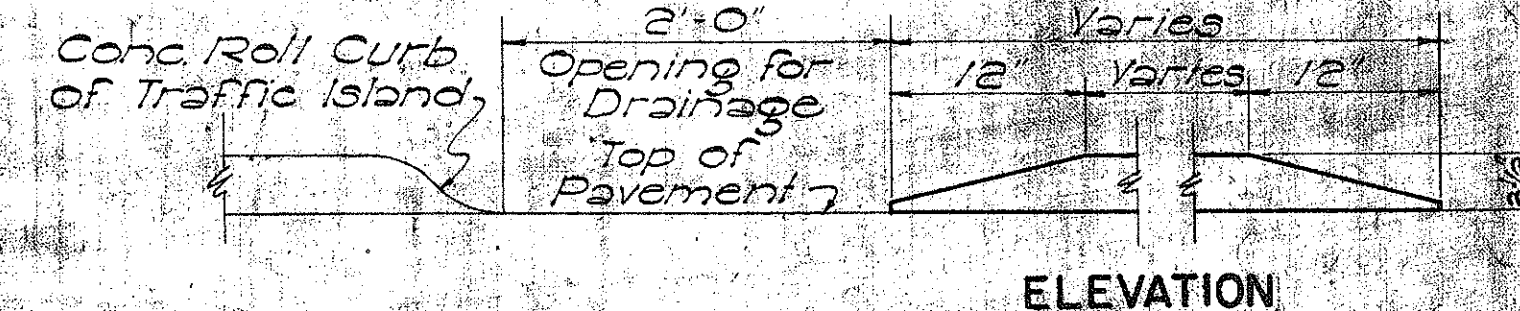
SCALE: 2" = 1'-0"

NOTE:
Section and Elevation for Jiggle Bars are same as the Traffic Bars.

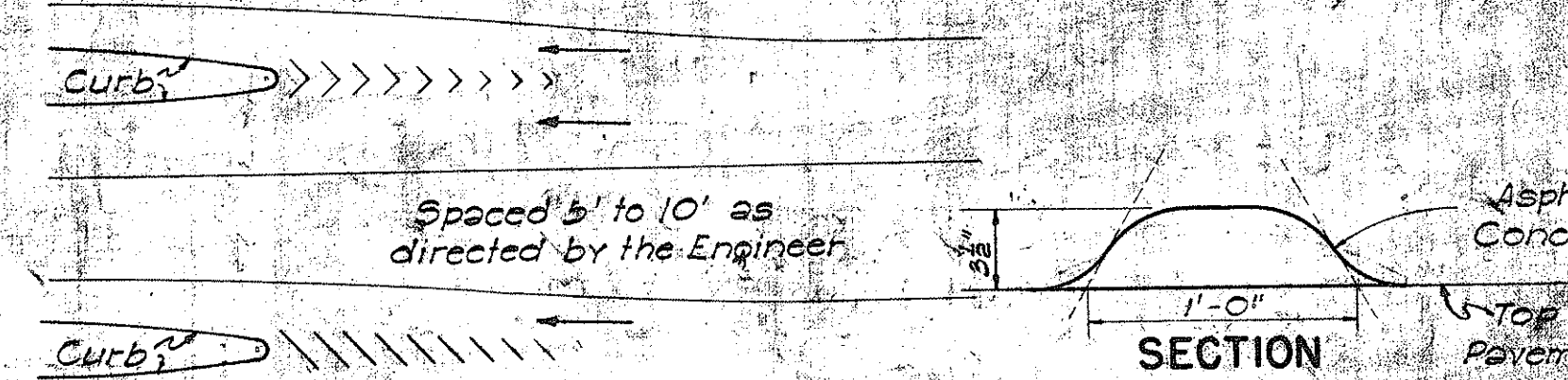


RAISED JIGGLE BARS
SCALE: 1/2" = 1'-0"

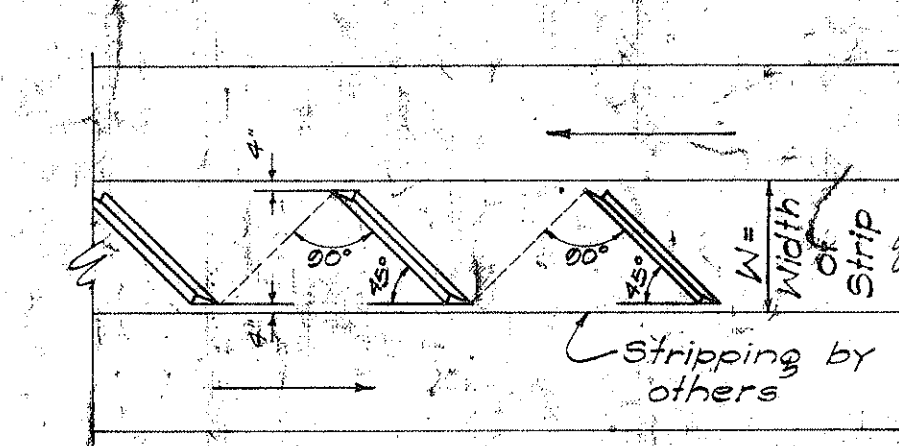
NOTE:
Paint all exposed surfaces of bars with beaded white traffic lacquer.



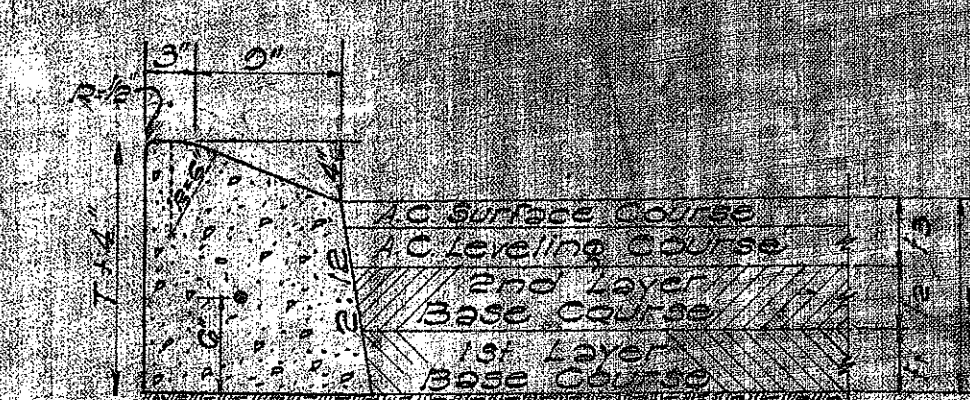
ELEVATION



A.C. TRAFFIC ROLL
NOT TO SCALE



LAYOUT OF JIGGLE BARS
NOT TO SCALE



TYPE "E" CAST-IN-PLACE
CONCRETE CURB
SCALE: 1" = 1'-0"



TYPE "EG" CAST-IN-PLACE
CONC. CURB & GUTTER
SCALE: 1" = 1'-0"

THE STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STANDARD DETAILS
CONCRETE CURBS,
CONCRETE CURBS & GUTTERS
SCALES AS NOTED
SHEET NO. OF 8 SHEETS

APPROVED: DATE: Aug 25, 1957
STATE HIGHWAY ENGINEER

"E" and "EG" Curbs have been revised 7-26-57
"G" and "F" Gutters have been added 9-22-01

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES CHECKED BY	
ORIGINAL	
PLAN	
NOTE BOOK	
CHECKED BY	