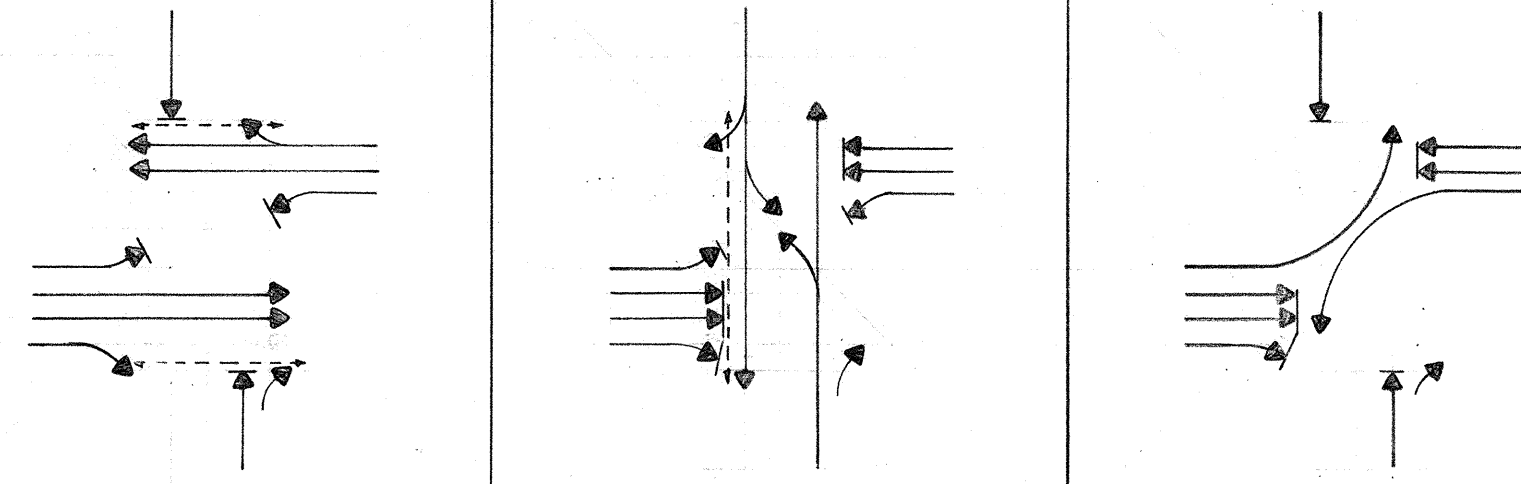
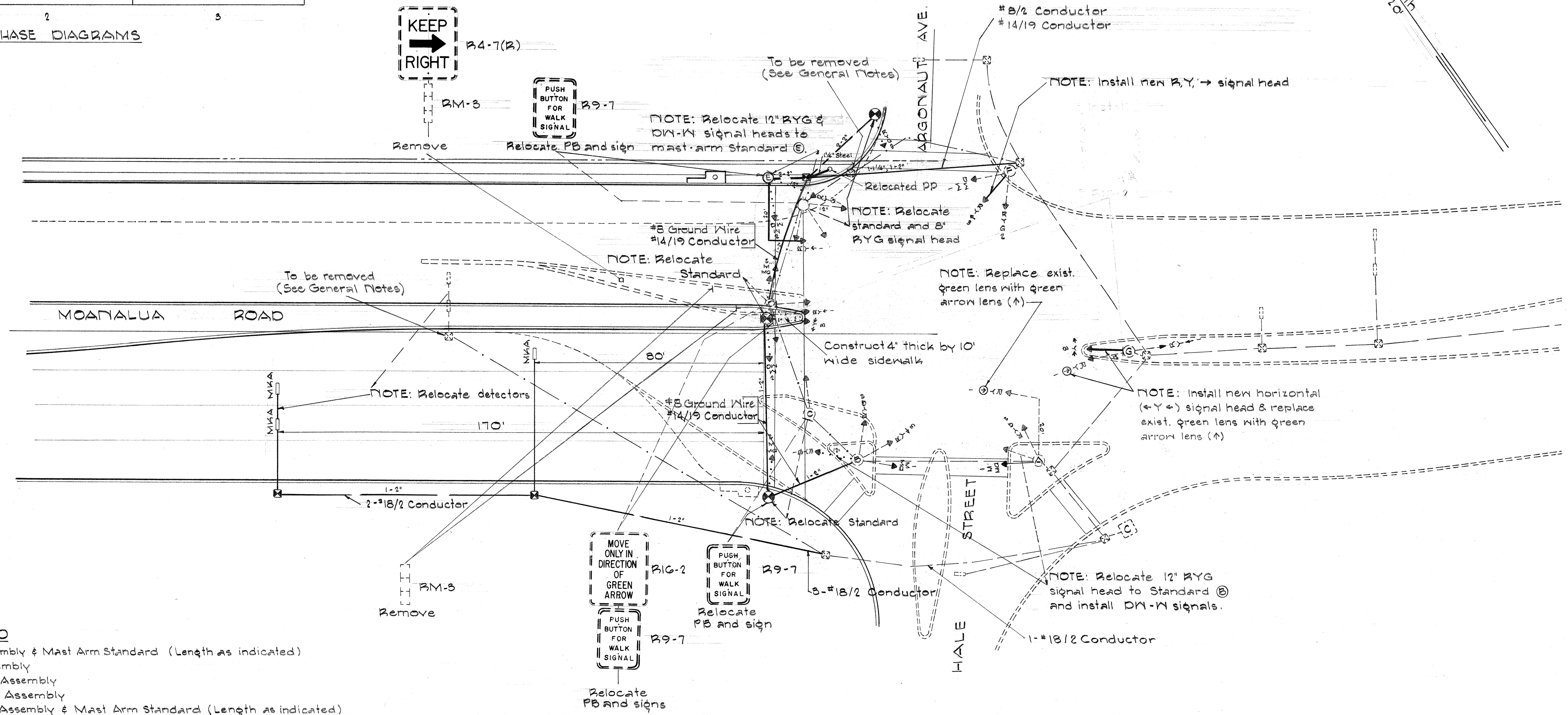




PHASE DIAGRAMS



LEGEND

- ① New 12" Lens Assembly & Mast Arm Standard (Length as indicated)
- ② New 8" Lens Assembly
- ③ Existing 12" Lens Assembly
- ④ Existing 8" Lens Assembly
- ⑤ Existing 12" Lens Assembly & Mast Arm Standard (Length as indicated)
- ⑥ Relocated 8" Lens Assembly & Standard
- ⑦ New Vehicle Detector (Type as indicated)
- ⑧ Existing Vehicle Detector
- ⑨ New Type "C" Pullbox
- ⑩ Existing Pullbox
- ⑪ Existing Controller
- ⑫ Power or Electric Pole
- ⑬ New Steel Conduit (No. & Size as indicated)
- ⑭ New Cement Asbestos Duct (No. & Size as indicated)
- ⑮ Existing Conduit & Cable to be used
- ⑯ Existing Conduit & Cable to be abandoned or removed

GENERAL NOTES

- Exact locations of the traffic signal standards, pullboxes, detectors, and conduits shall be determined in the field by the project engineer.
- Existing underground conduits not used in the new traffic signal system shall be abandoned or removed as directed by the project engineer (All costs incidental to the item of "Roadway Excavation").
- Pavement markings by others.
- Removal of existing pullboxes shall not be paid for separately but shall be incidental to the item of "Traffic Signal System".

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

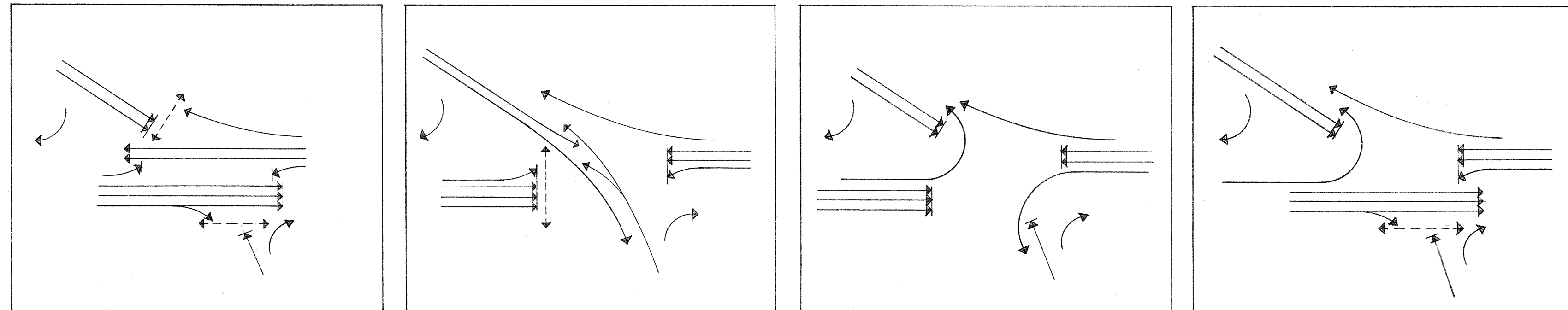
TRAFFIC SIGNAL SYSTEM
MOANALUA ROAD
at
HALE STREET

Moanalua Rd. 5U-0720(6)
Scale: As Noted Feb. 1964

SHEET No. 1 OF 5 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
DRAWN BY	DESIGNED BY	
NOTED BY	CHECKED BY	
NO.		

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



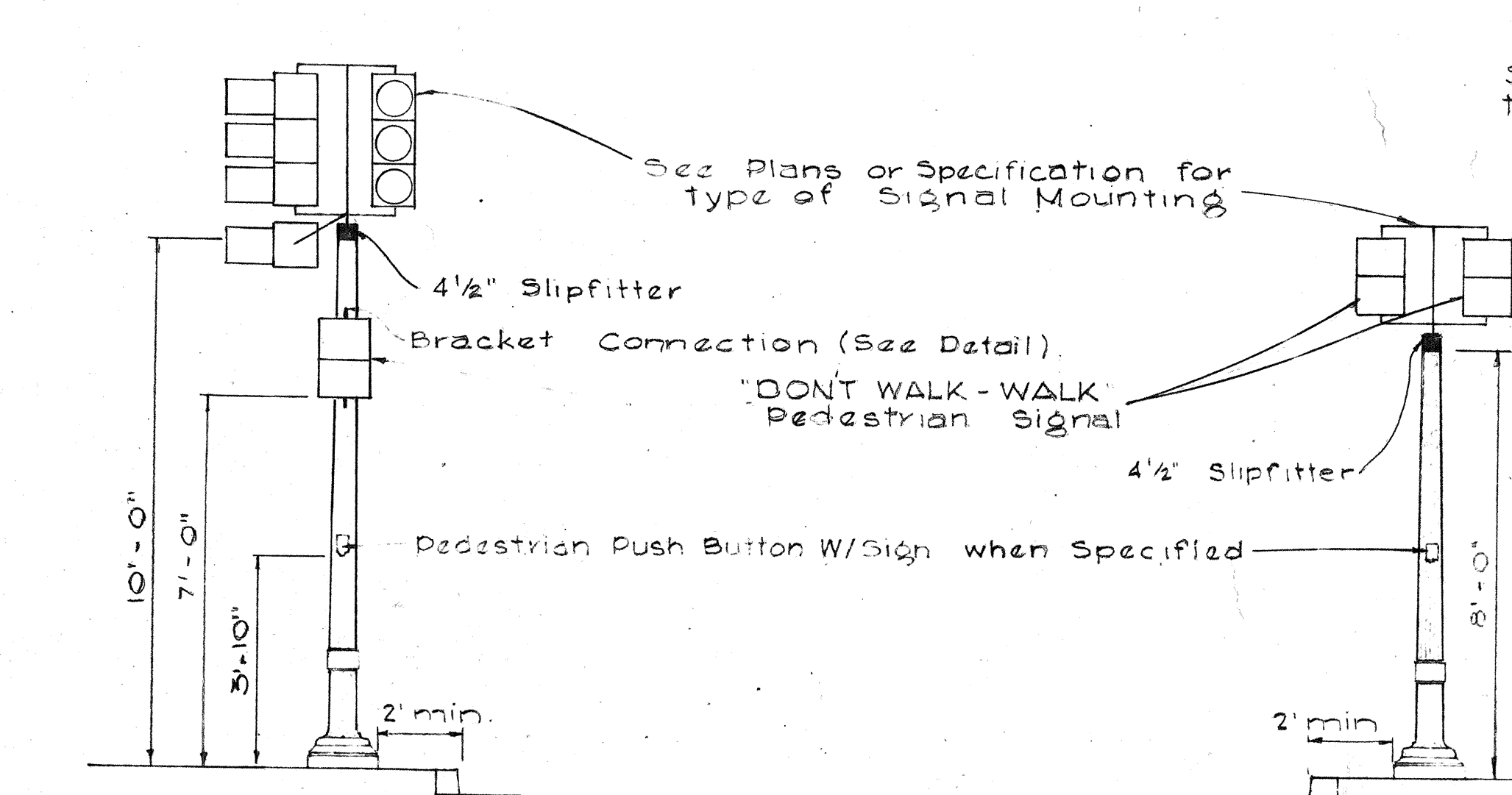
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNAL SYSTEM
KAMEHAMEHA HWY.
AT
WALE ST.

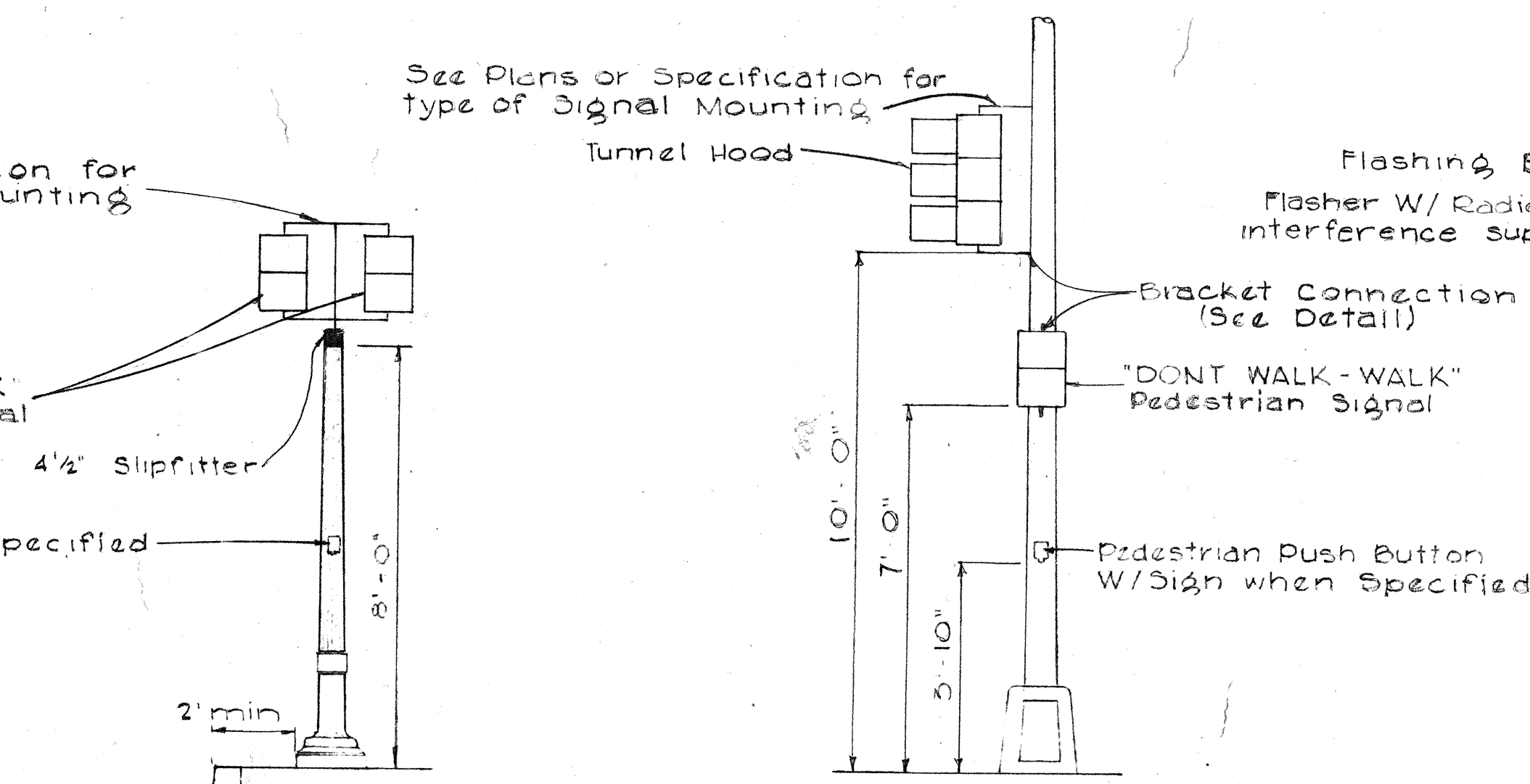
Kamehameha Hwy. F-000-1(4)
Scale: 1" = 20' Feb. 1964

SHEET No. 2 OF 5 SHEETS

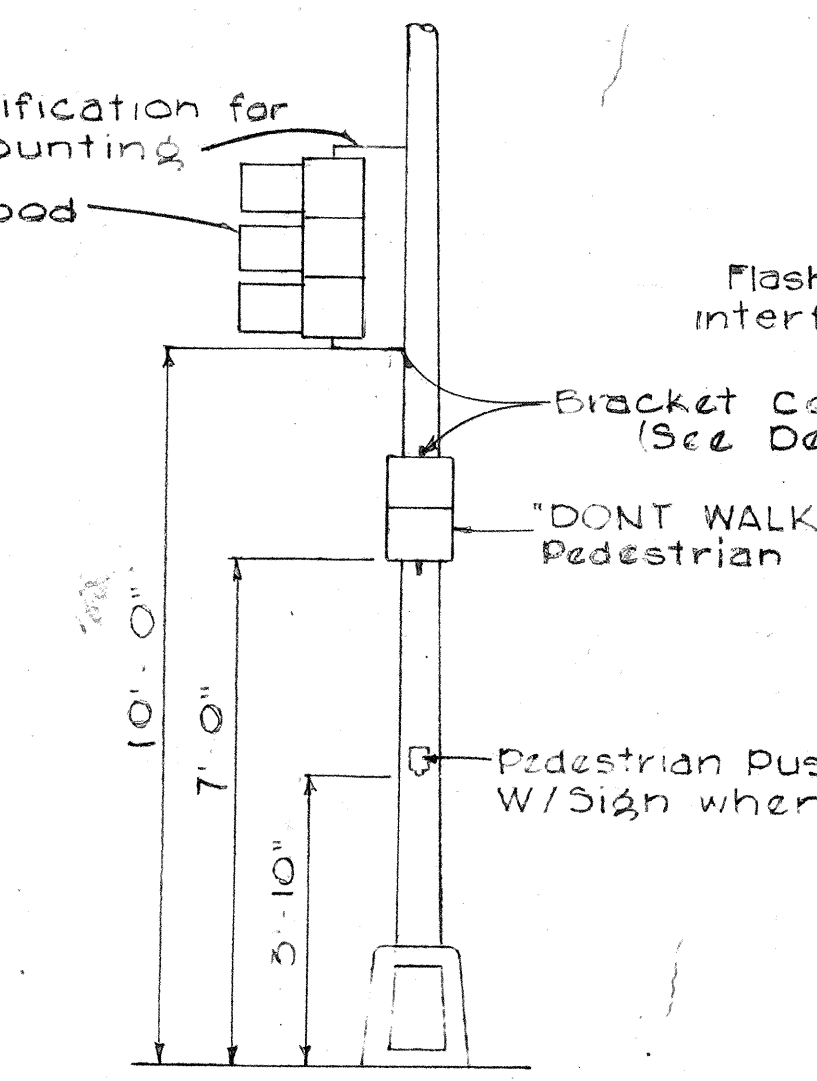
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F090-1(4)	1964	83	177
		BU-0720(2)	1964		



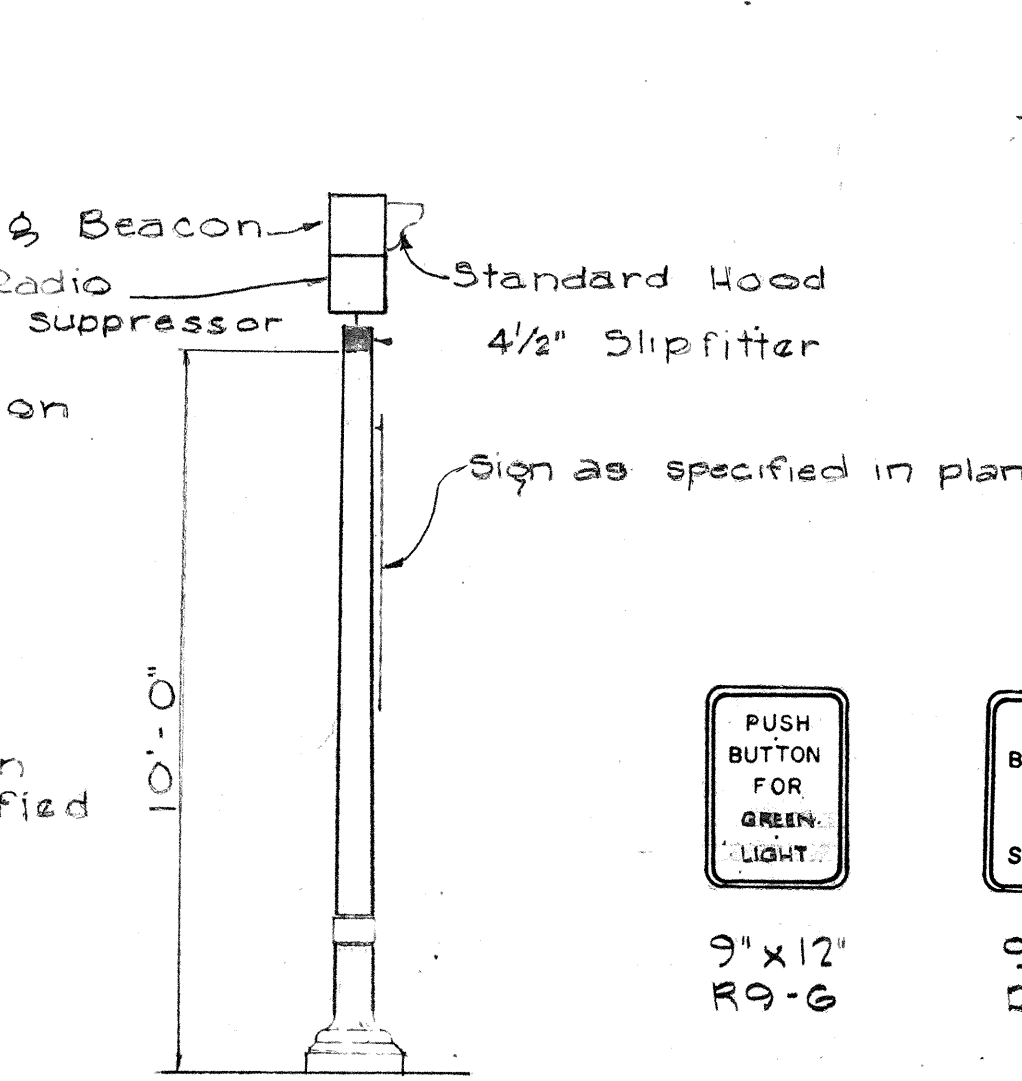
ON 10-FOOT STANDARDS



ON 8-FOOT STANDARDS

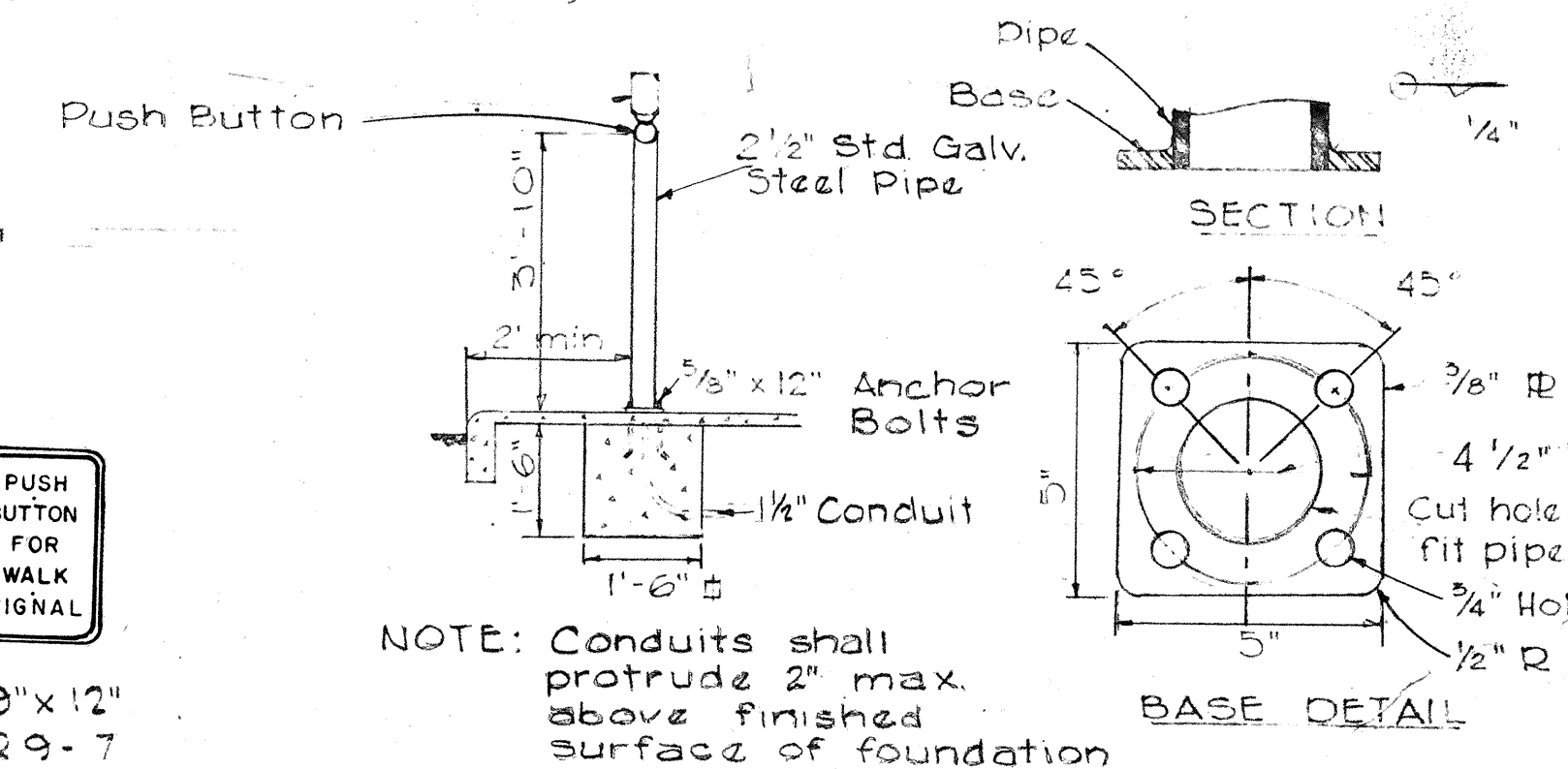


ON MAST ARM OR SPAN WIRE STANDARDS

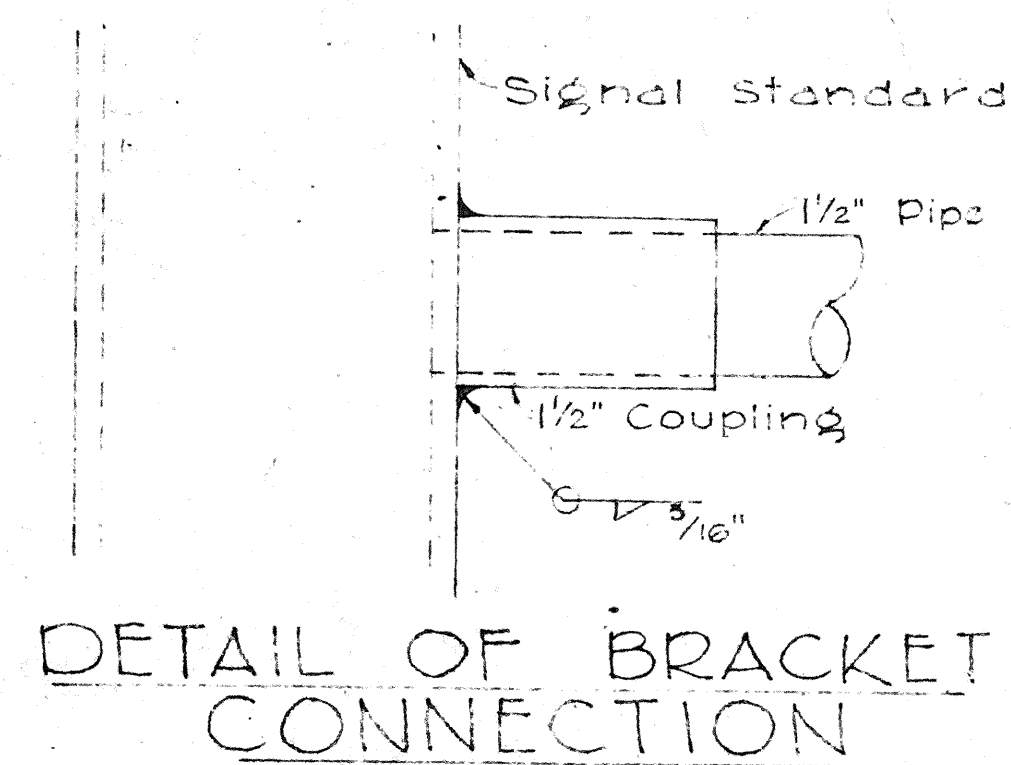


ADVANCE FLASHING BEACON

TRAFFIC SIGN AS SPECIFIED IN PLAN
1. "Push Button for Green Light" (R9-6)
2. "Push Button for Walk Signal" (R9-7)

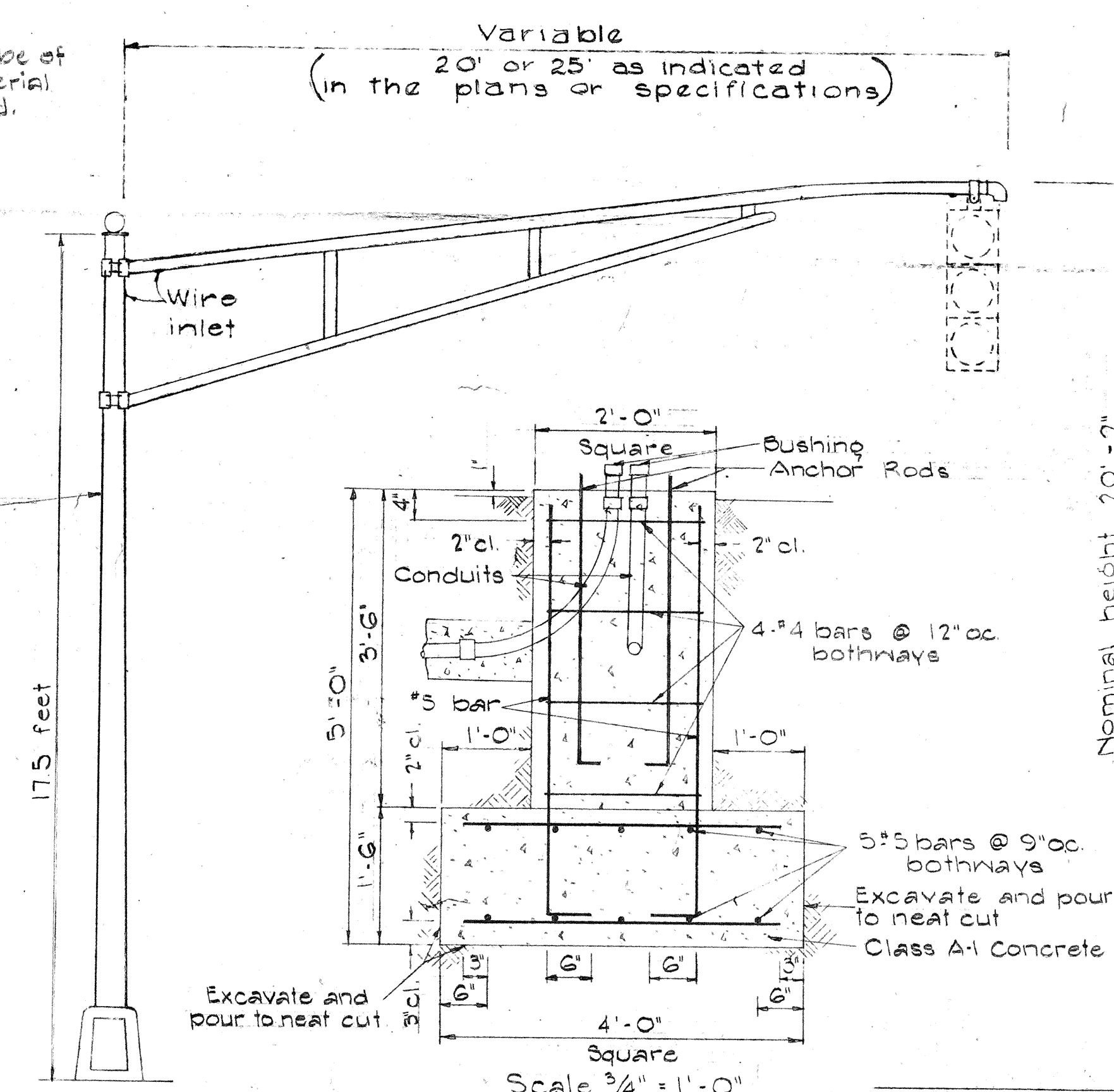


PEDESTRIAN - PUSH BUTTON POST

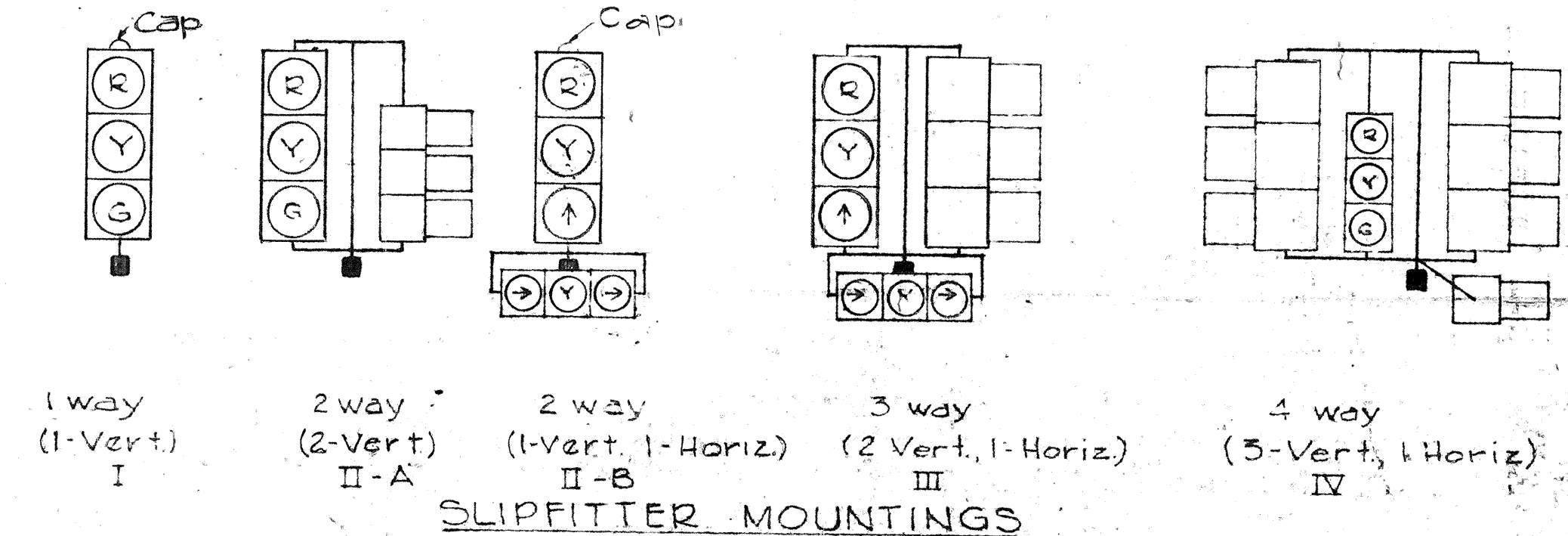


DETAIL OF BRACKET CONNECTION

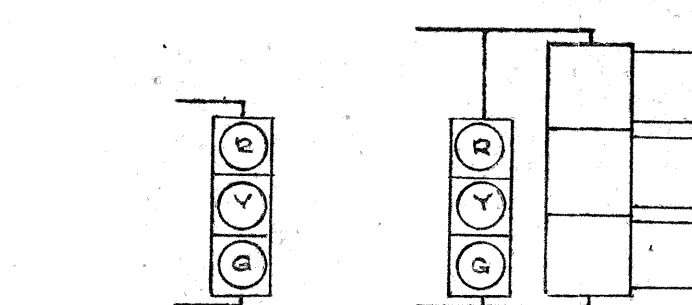
NOTE: Coupling shall be of the same material as the standard.



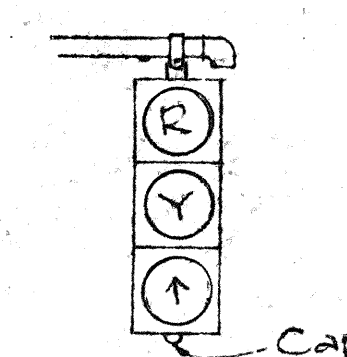
MAST ARM FOOTING AND STANDARD



SLIPFITTER MOUNTINGS

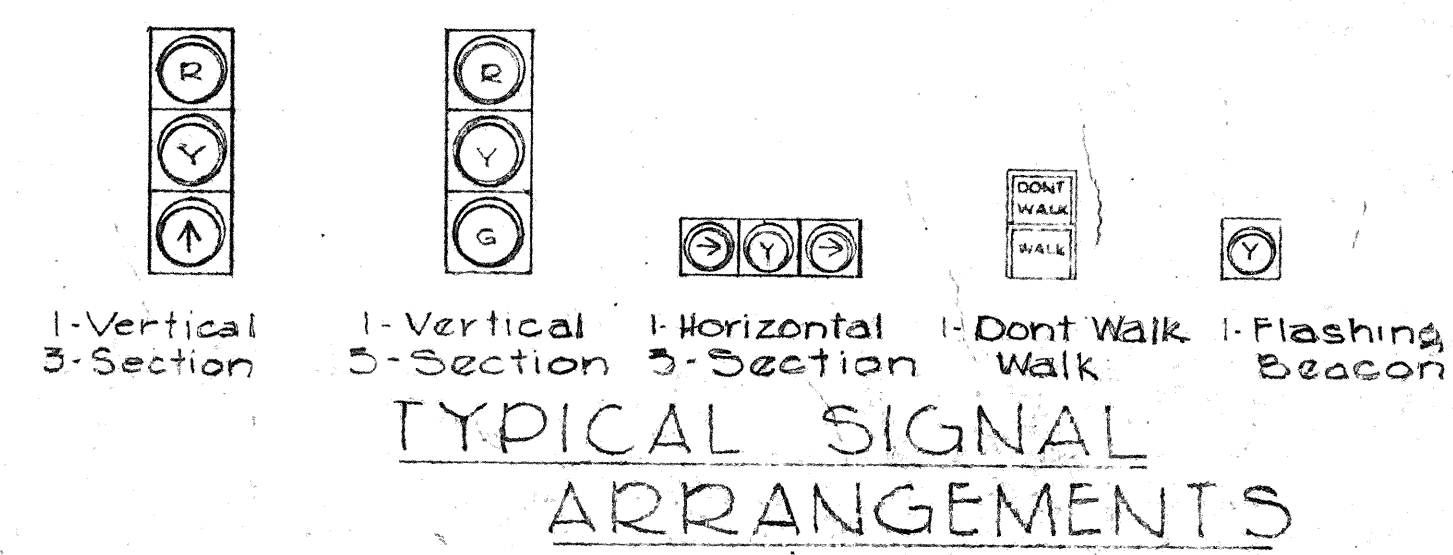


BRACKET MOUNTINGS



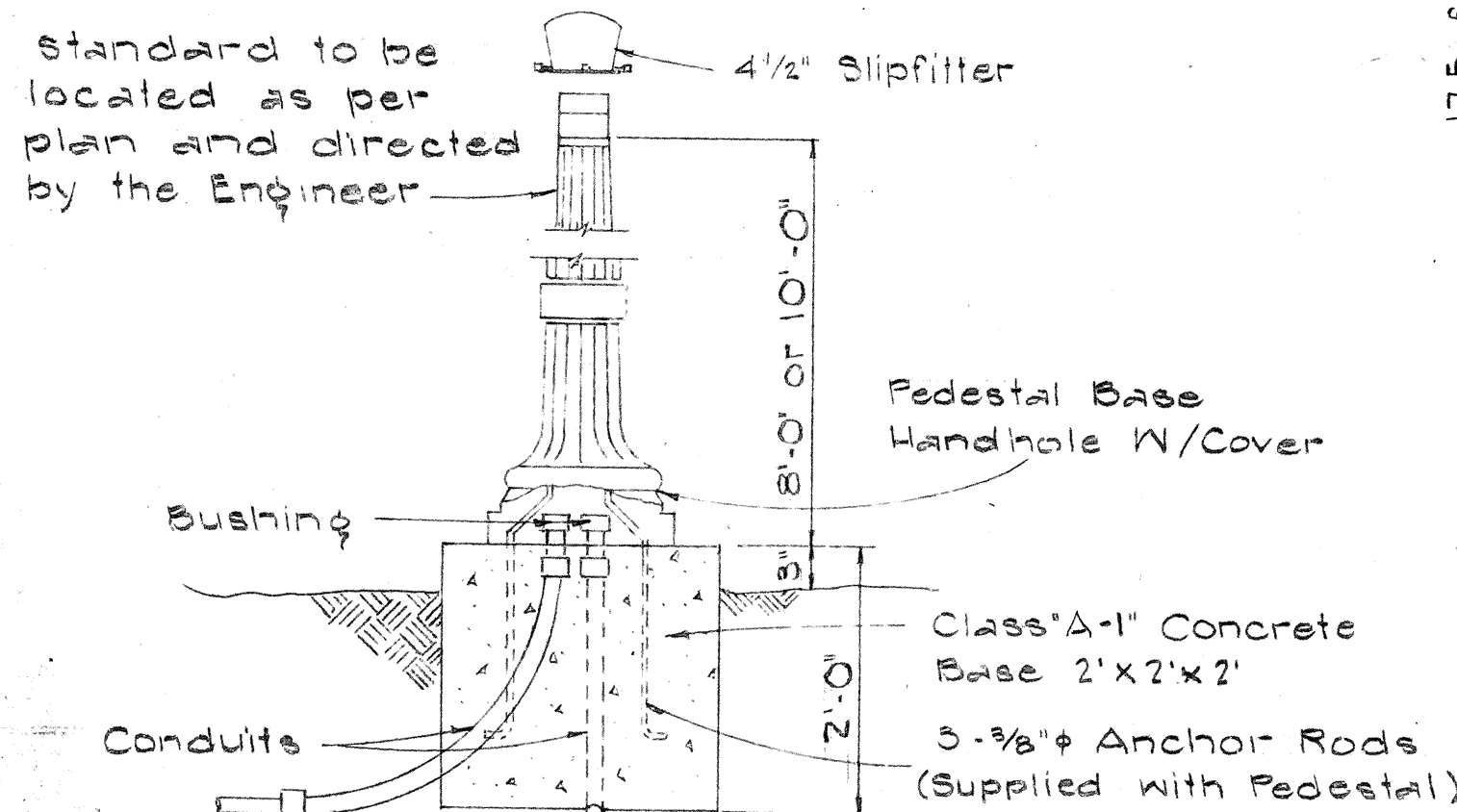
MAST ARM MOUNTING

TYPICAL VEHICULAR AND PEDESTRIAN SIGNAL MOUNTINGS



TYPICAL SIGNAL ARRANGEMENTS

SURVEY PLATTED BY	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	



TRAFFIC SIGNAL POLE AND BASE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

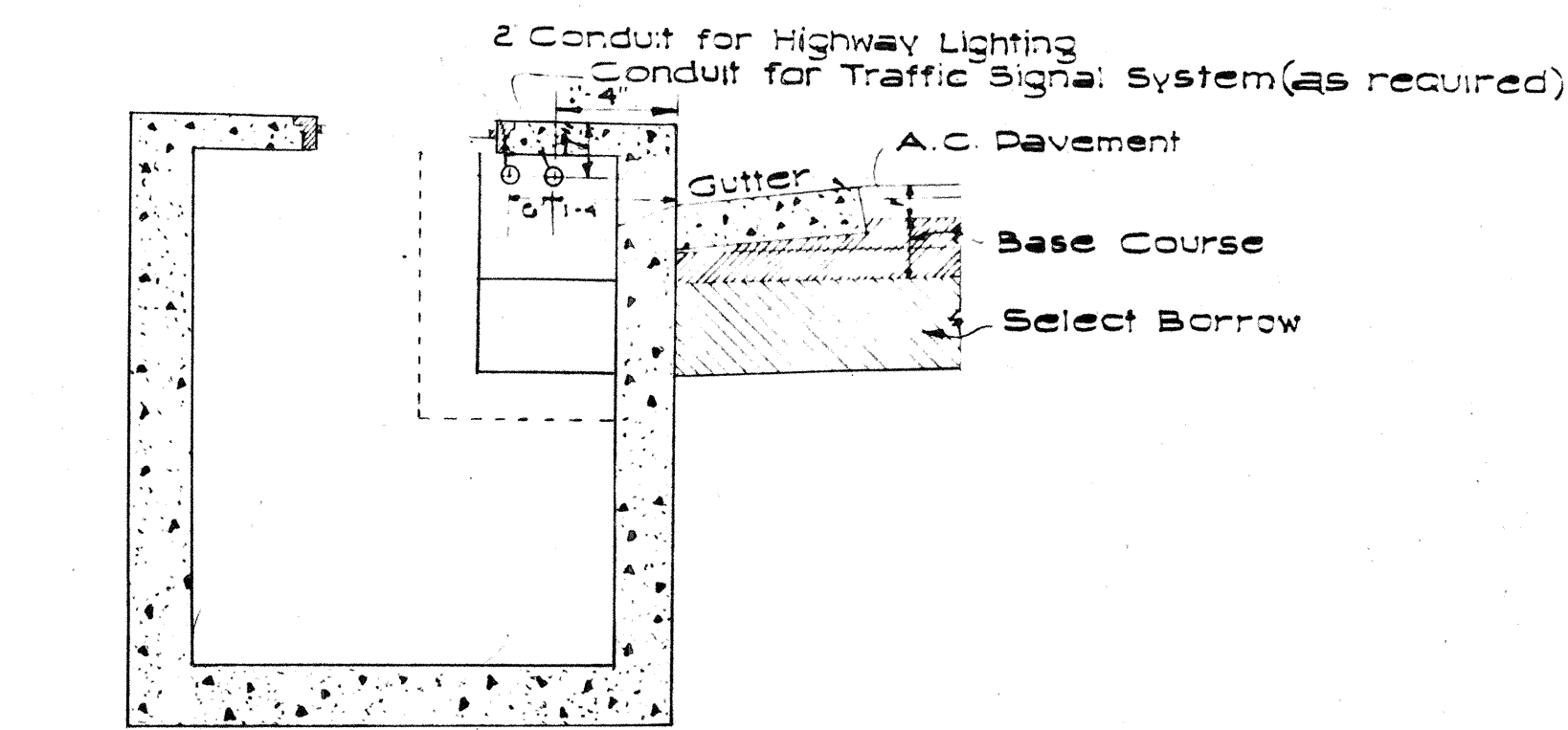
MISCELLANEOUS DETAILS
TRAFFIC SIGNAL SYSTEM

NO SCALE

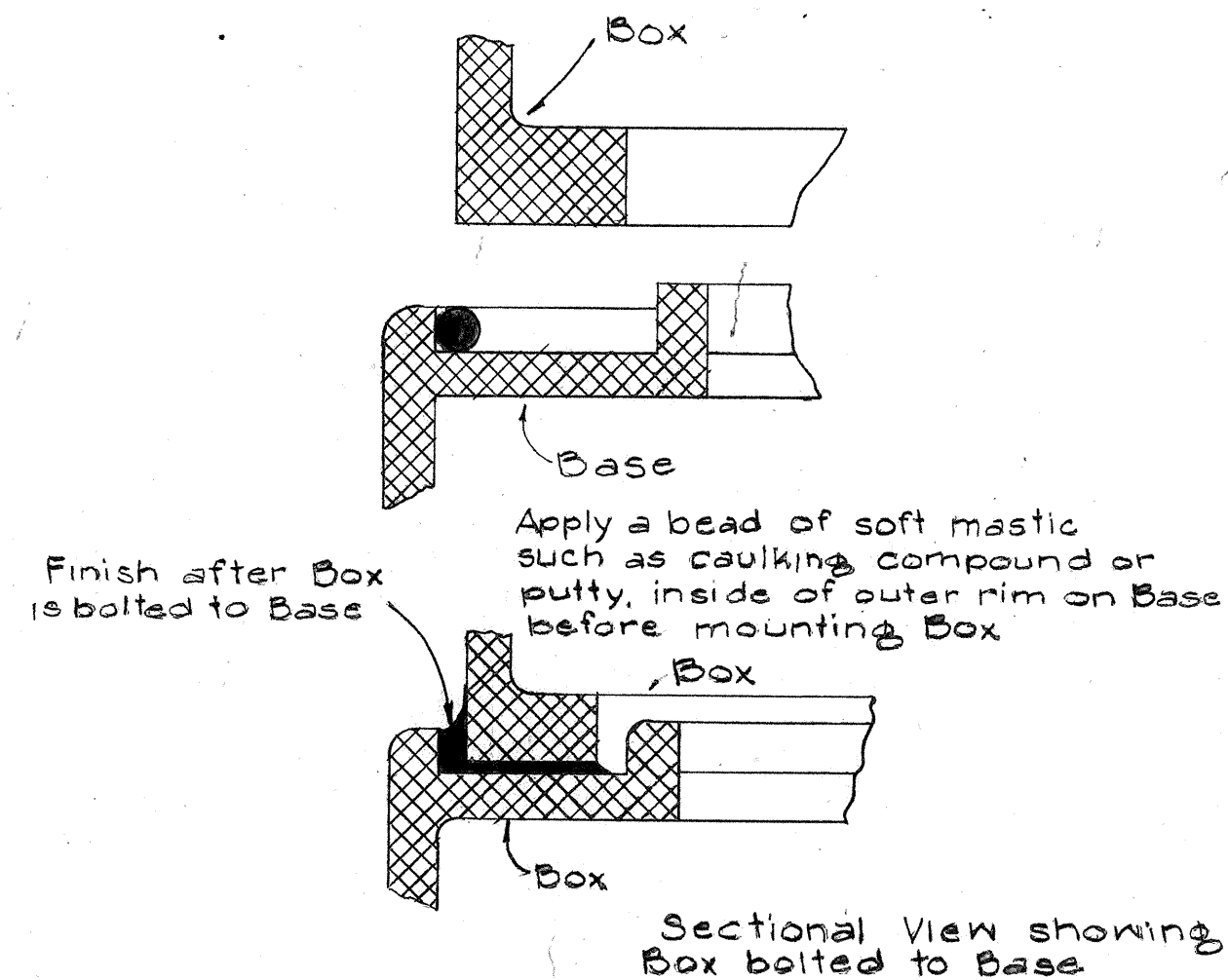
SHEET No. 83 OF 9 SHEETS

2/17/57

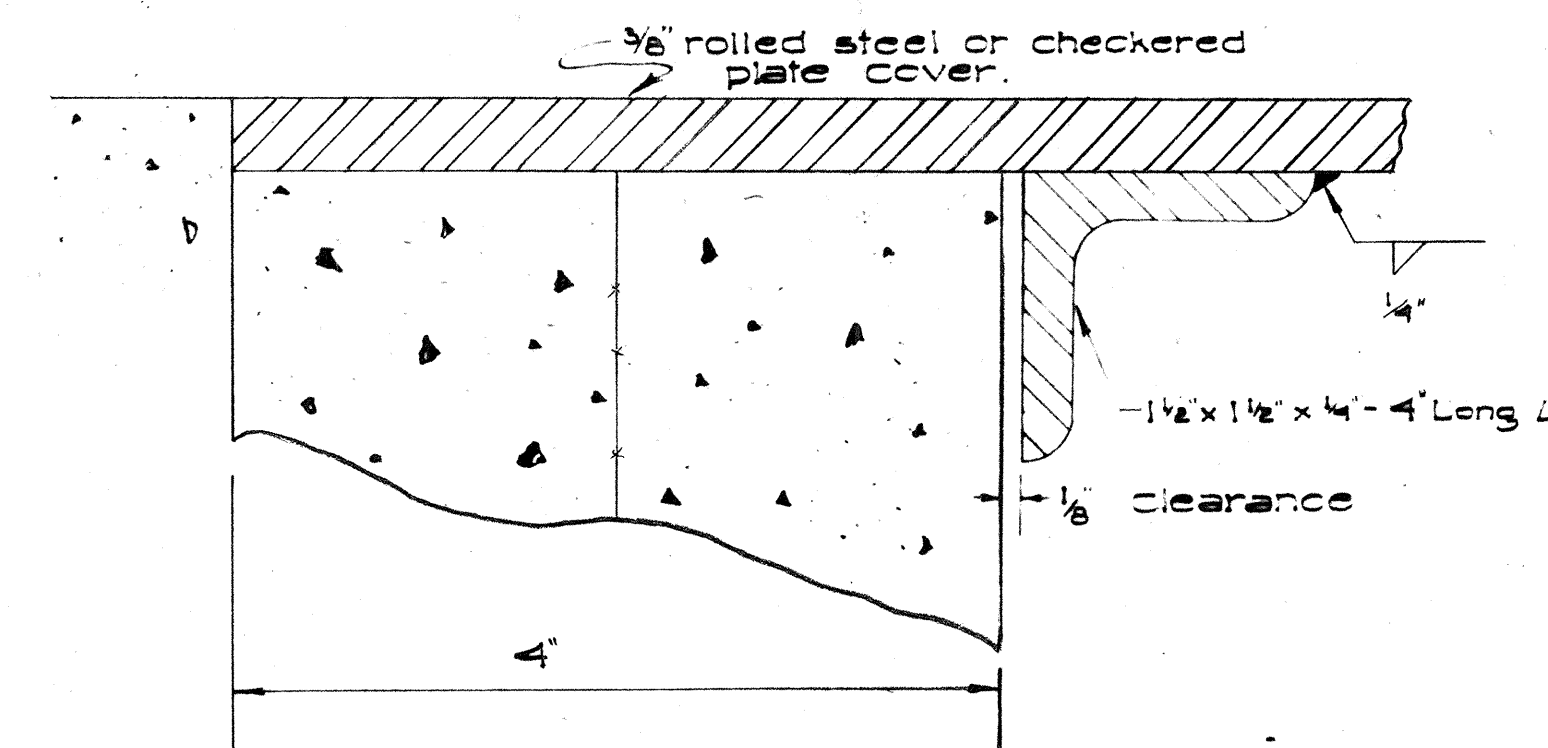
NOTE: Galv. 2 Conduits shall be supported by Band Hangers bolted to the top slab of Catch Basins. Pipe Hangers and bolts shall be incidental to item No. 46.1 Class A-1 Concrete other than in Bridges.



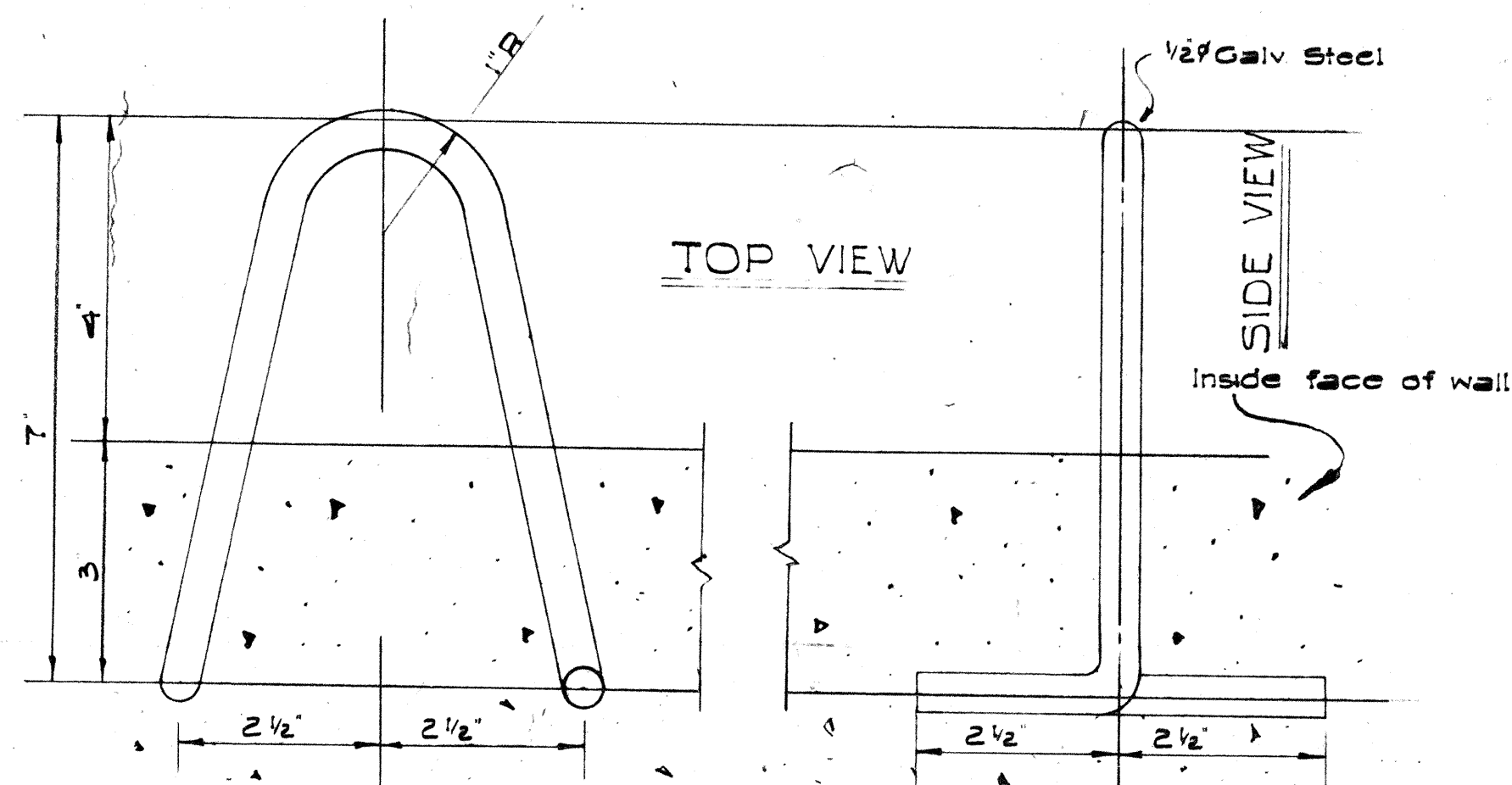
TYPICAL SECTION SHOWING CONDUITS PASSING THROUGH CATCH BASINS
Scale 1/2" = 1'-0"



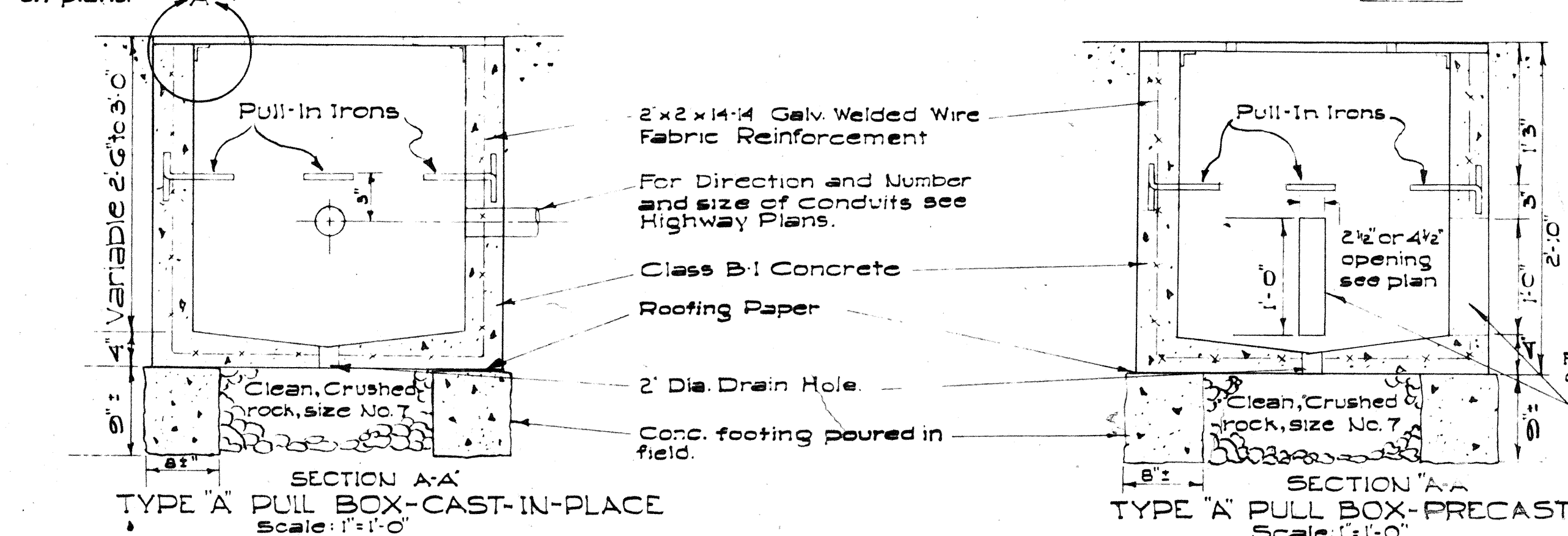
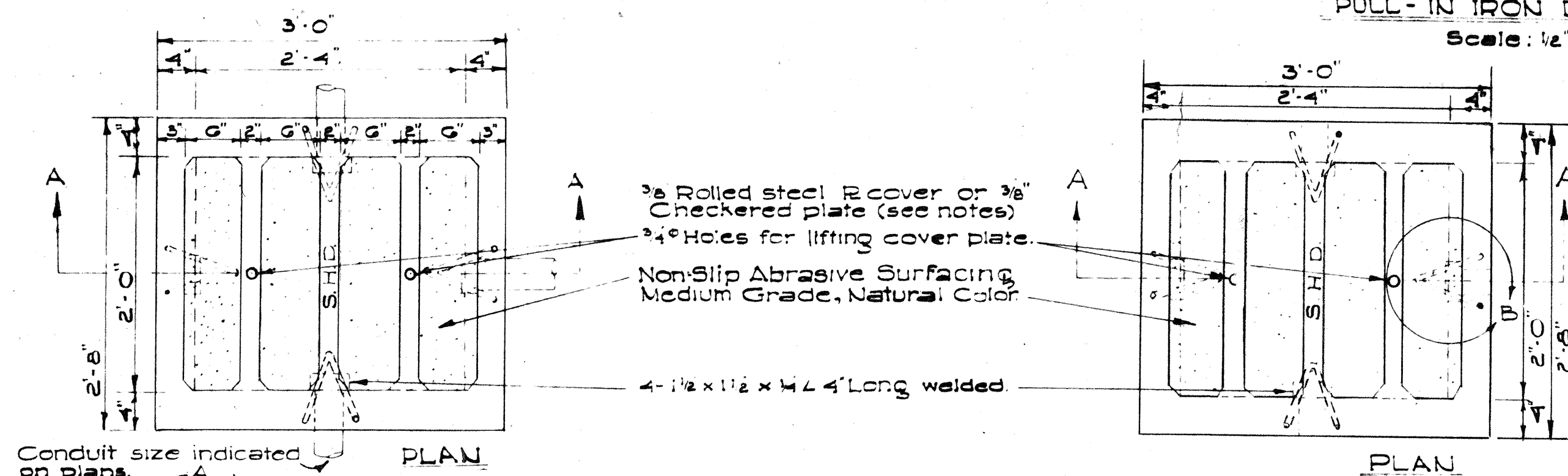
DETAIL "A"



DETAIL "A"

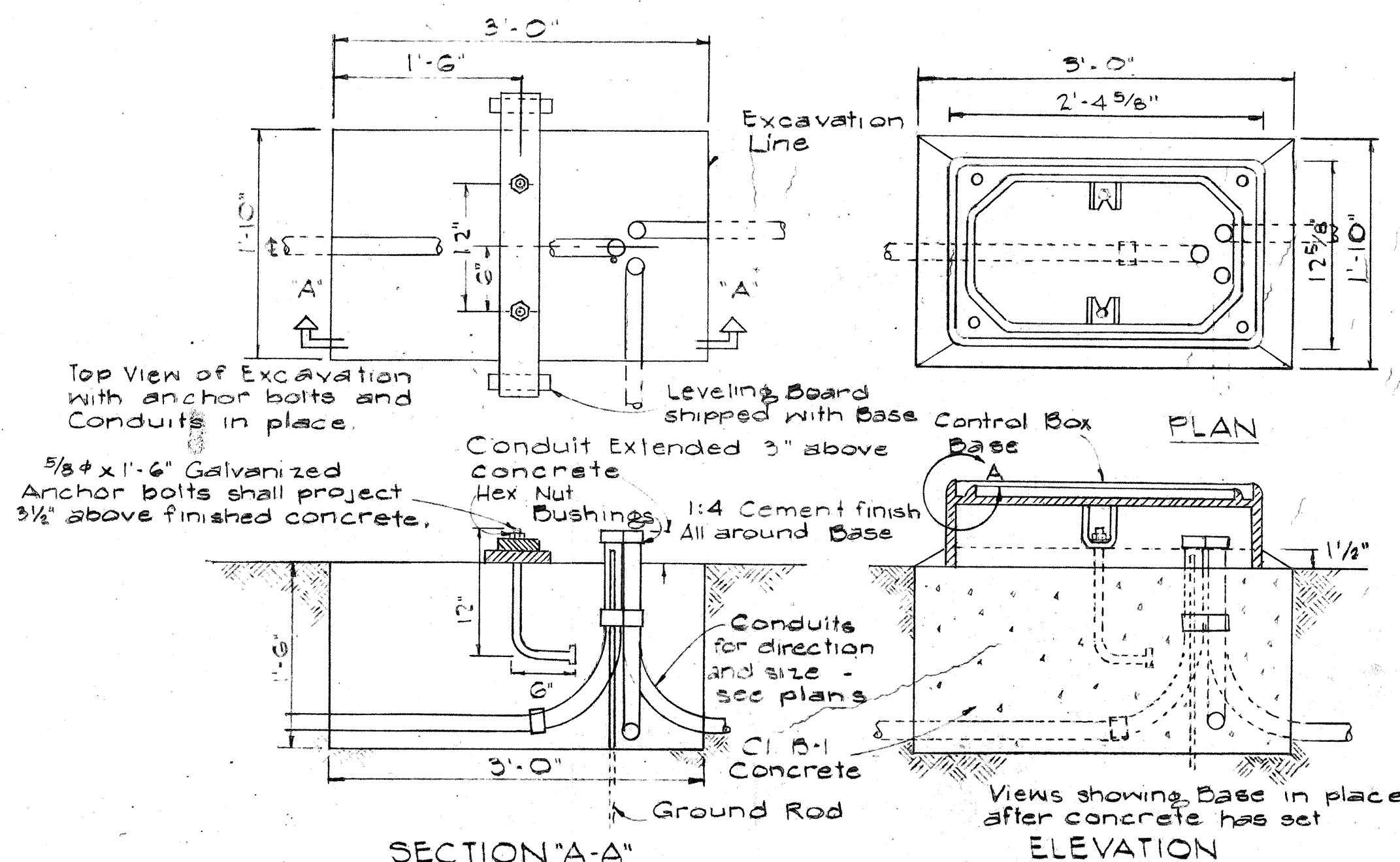


PULL-IN IRON DETAIL "B"
Scale: 1/2" = 1'-0"



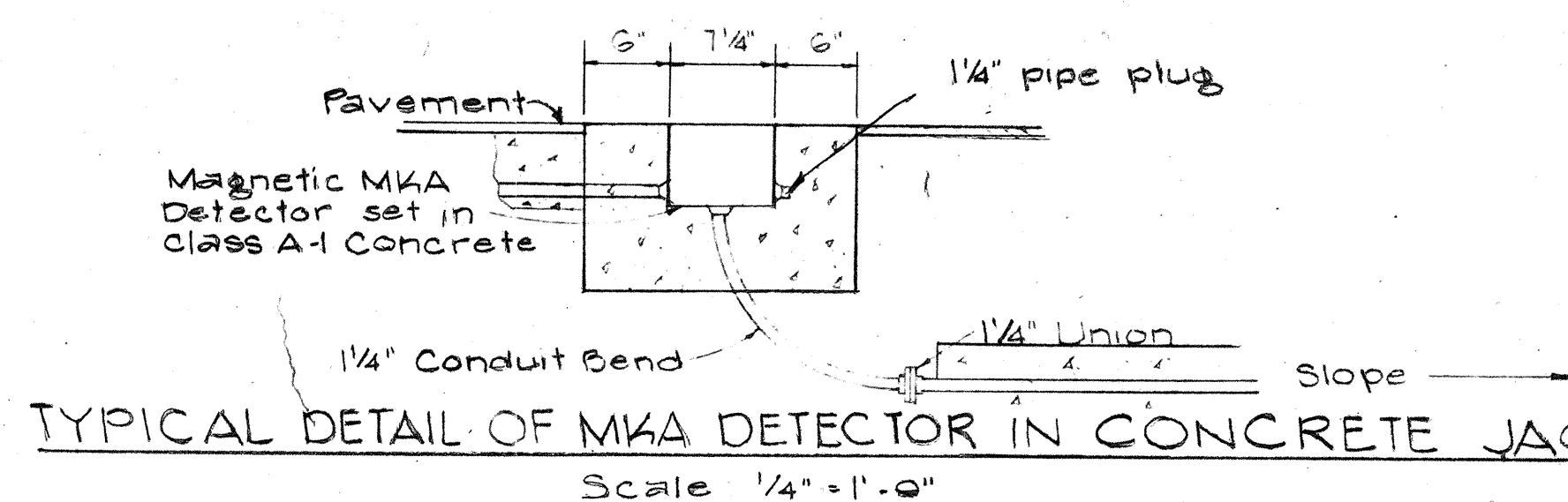
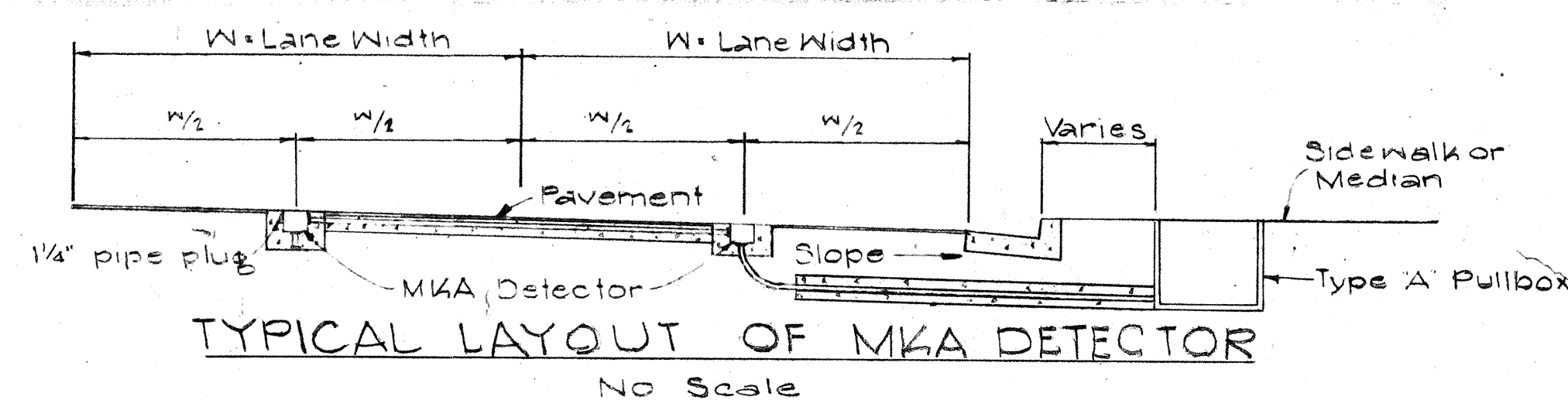
Note:
1. 3/8" Rolled steel Plate Cover with non-slip Abrasive Surfacing Medium Grade, Natural Color shall be used on all Pull Boxes located on sidewalk areas where pedestrians are walking.
2. 3/8" Checkered Plate Cover shall be used on all Pull Boxes located in median areas and other locations where there are no pedestrians walking.
3. Pull Irons shall be placed opposite each conduit slot.
4. Covers on all Pull Boxes located in sidewalk areas shall be set flush with the concrete sidewalk.
5. Each Pull Box shall have a pair of pull irons opposite each other for lifting purposes.

For direction and number and size of slots for conduits (see plan)
Grout Conduit Slot with 1:3 Cement Mortar after conduit is placed.



TYPICAL INSTALLATION DETAILS FOR TYPE "M" CONTROLLER BOX
Scale 1" = 1'-0"

NOTE: Dimensions and details are approximate only. Exact details and dimensions shall be furnished by the manufacturer and as directed by the Engineer.



REVISED: April 5, 1963

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STANDARD DETAILS
TYPE "M" CONTROLLER BASE,
PULLBOX AND
MAGNETIC DETECTORS
SCALE: As Noted
SHEET No. 5 OF 5 SHEETS

APPROVED:..... DATE.....
DIRECTOR OF TRANSPORTATION

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