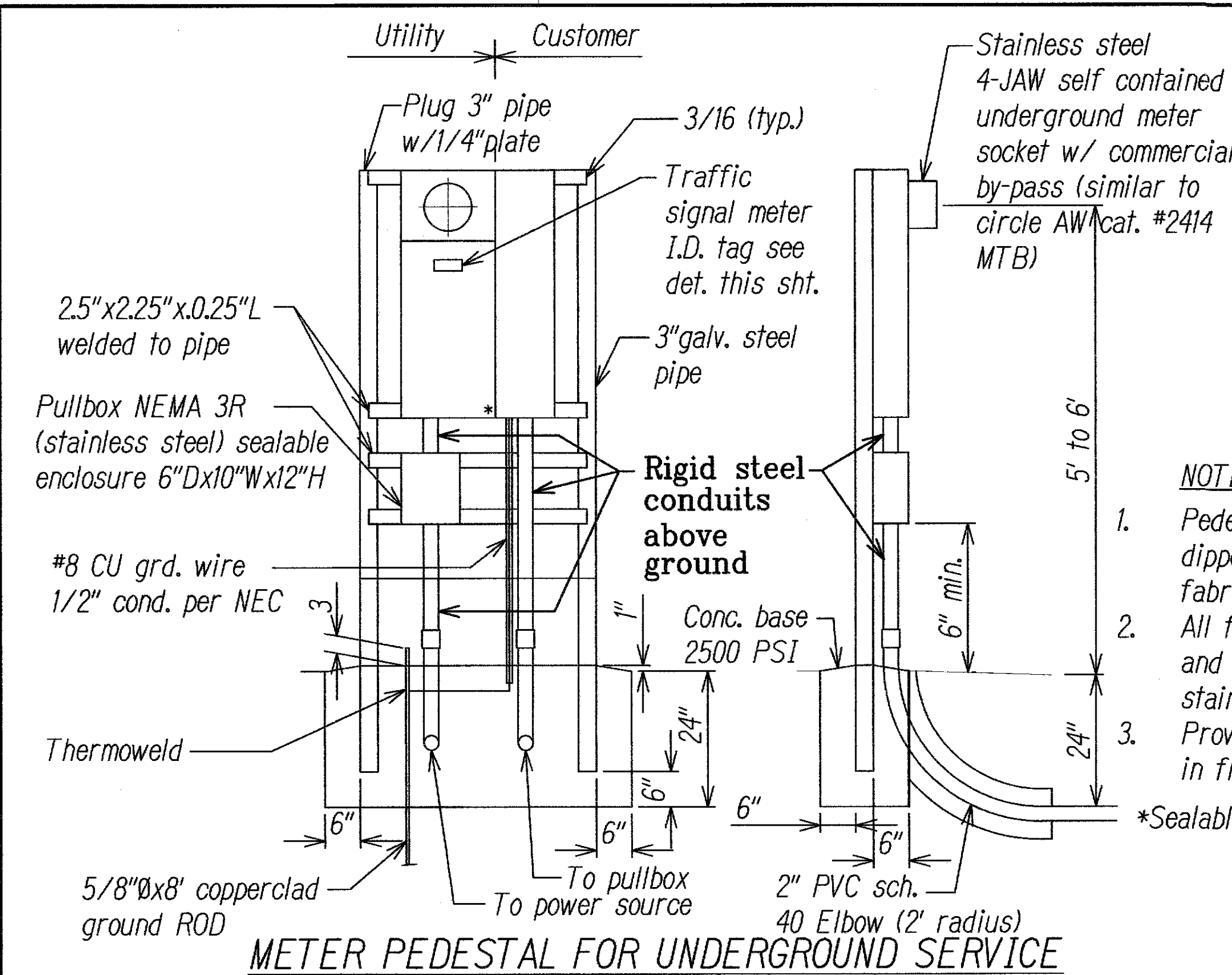


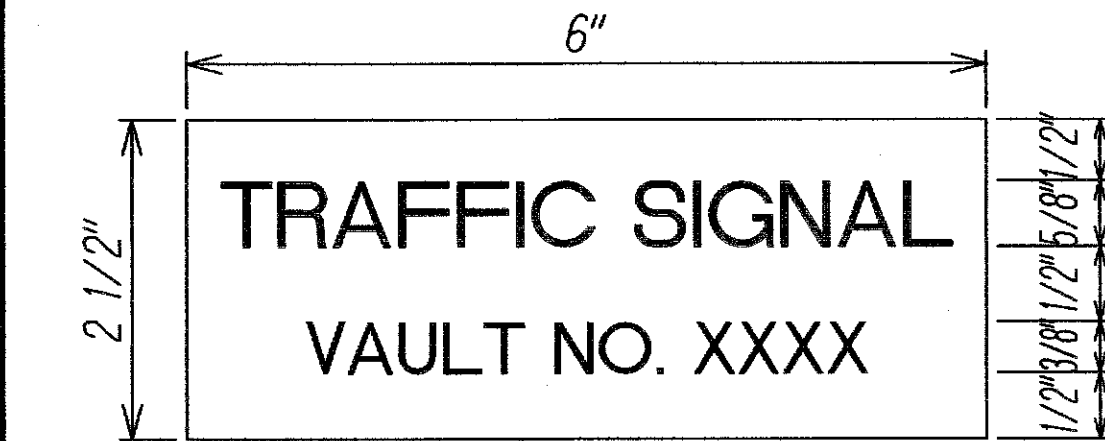
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	99D/G-01-08	2008	49	89



METER PEDESTAL FOR UNDERGROUND SERVICE

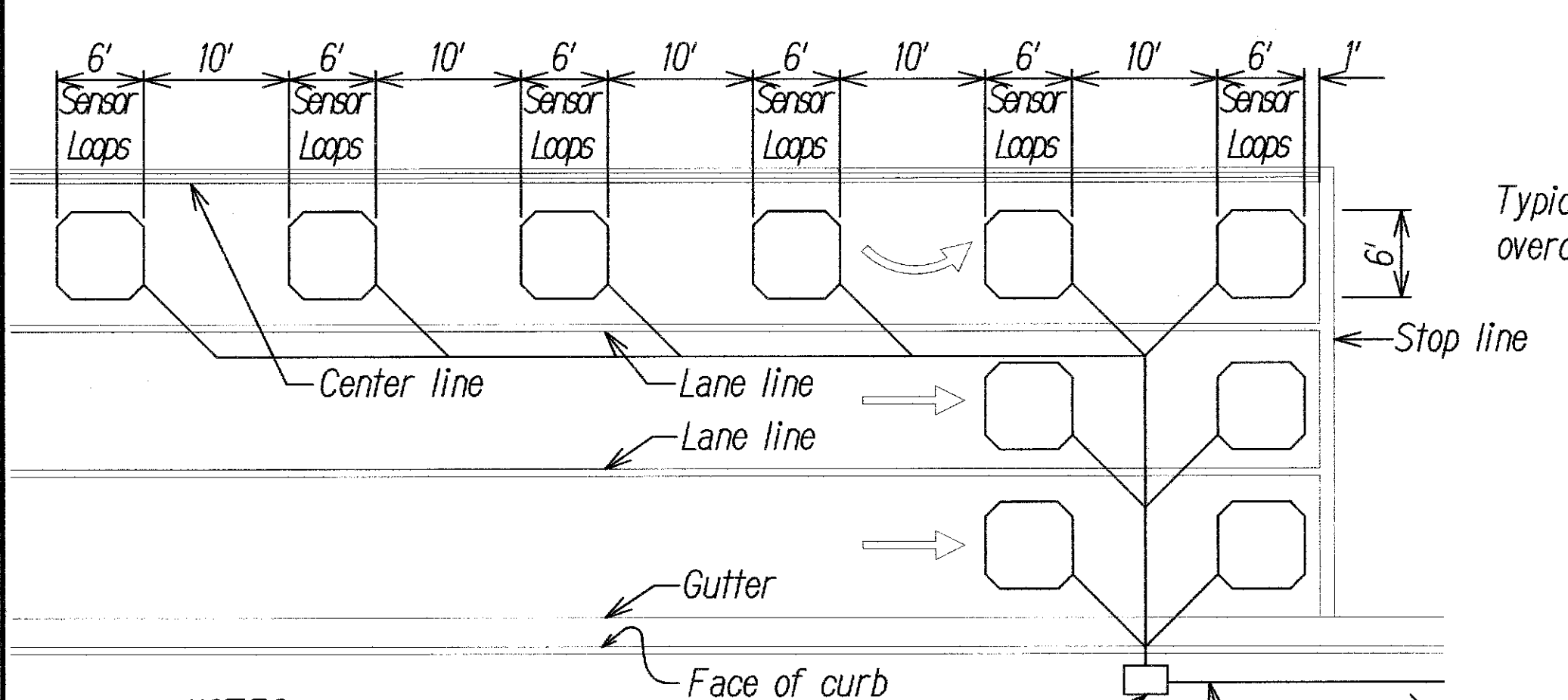
ELECTRICAL SERVICE DETAIL

NOT TO SCALE



METER I.D. TAG DETAIL

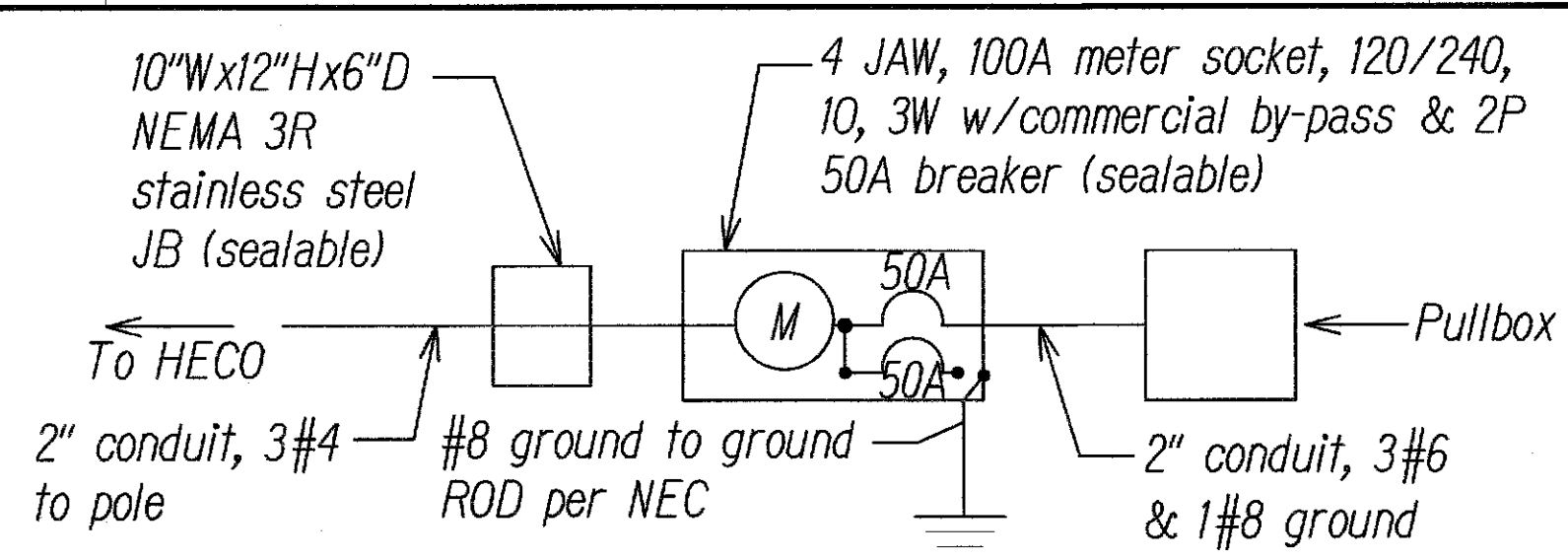
NOT TO SCALE



- NOTES:
- Center sensor loops in lanes.
  - Collector cables shall be twisted 2 turns per foot.
  - Number of loops and locations vary. See project plans.
  - Number and locations of collector sawcuts may be varied in the field to suit.

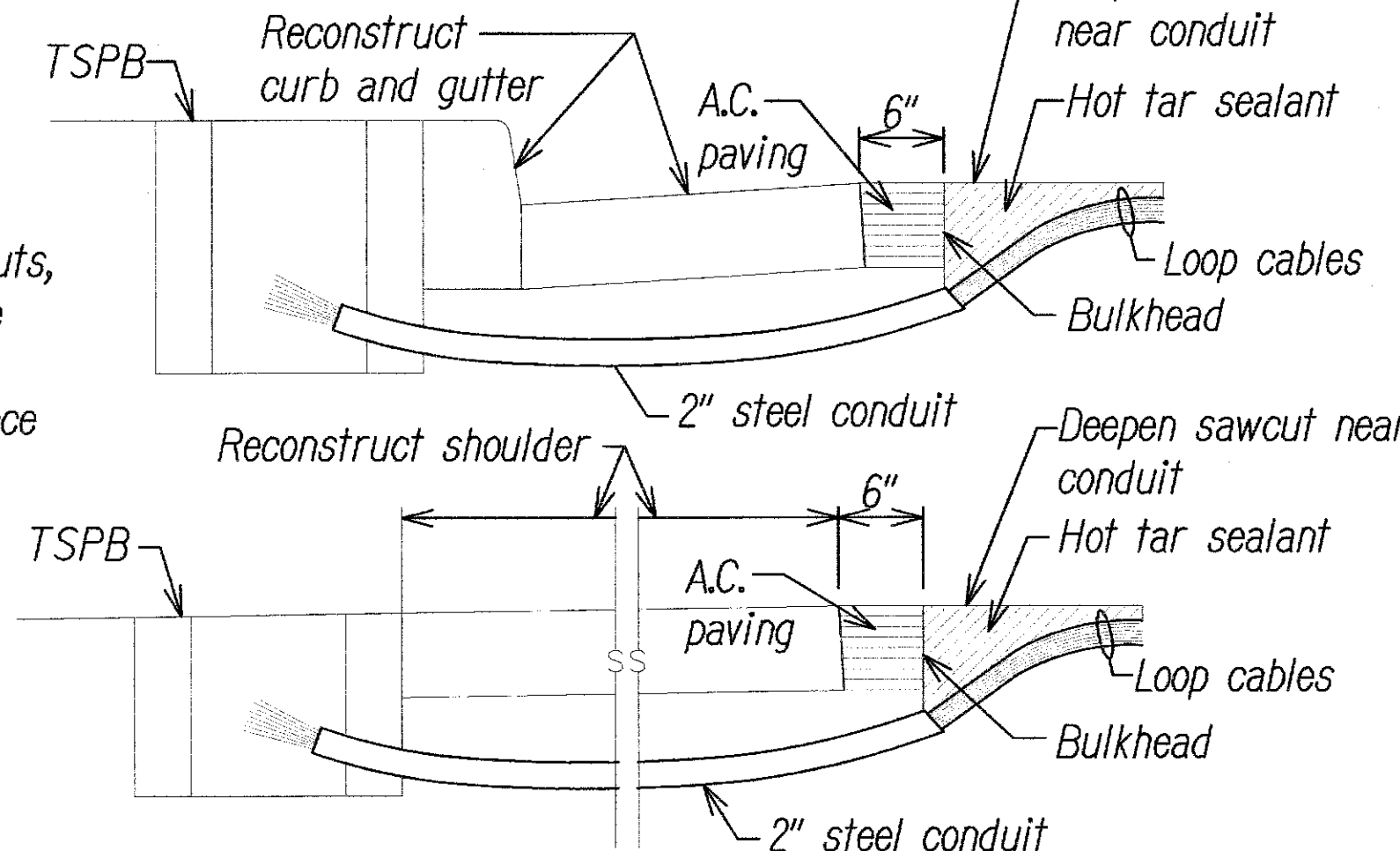
TYPICAL SENSOR LOOP LAYOUT

NOT TO SCALE



ONE-LINE DIAGRAM

NOT TO SCALE

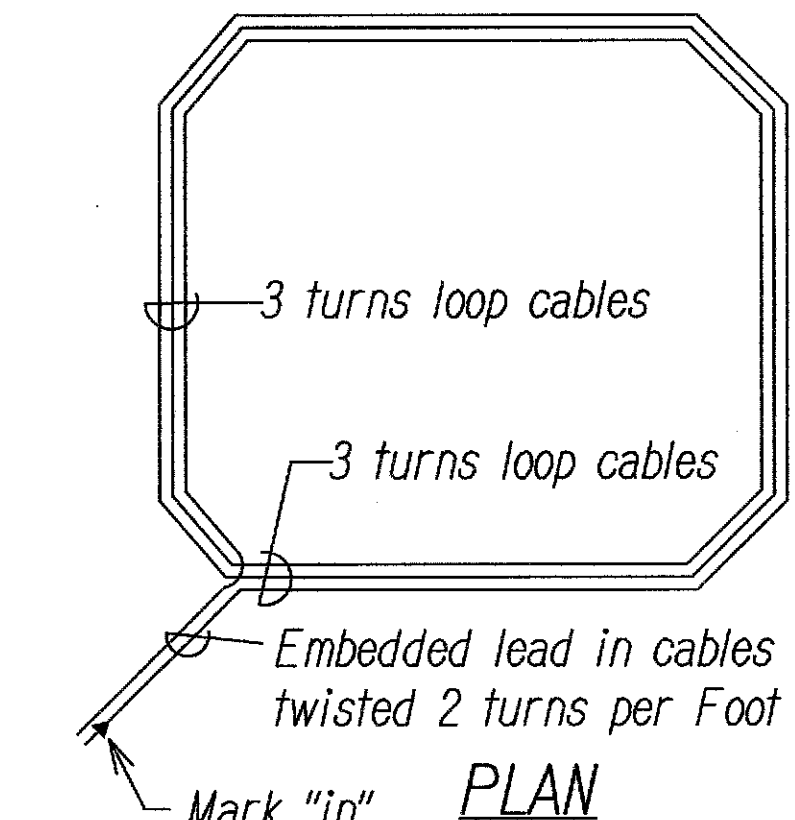


NOTES ON CONSTRUCTION AT END OF SAWCUT

- Seal roadway end of conduit after installation of conductors.
- Install bulkhead across conduit trench.
- Place hot tar in sawcut.
- Backfill over conduit with new A.C.
- Reconstruct curb and gutter as required.

DETAIL OF SENSOR LOOP INSTALLATION AT EDGE OF ROADWAY

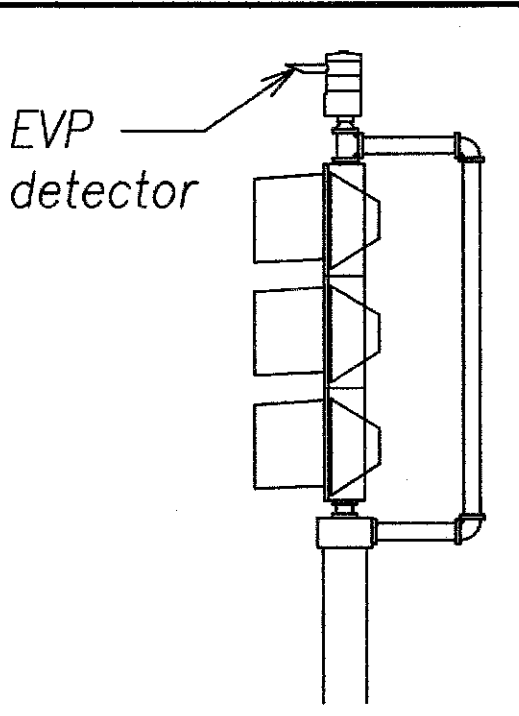
NOT TO SCALE



TYPICAL SENSOR LOOP WIRING DIAGRAM

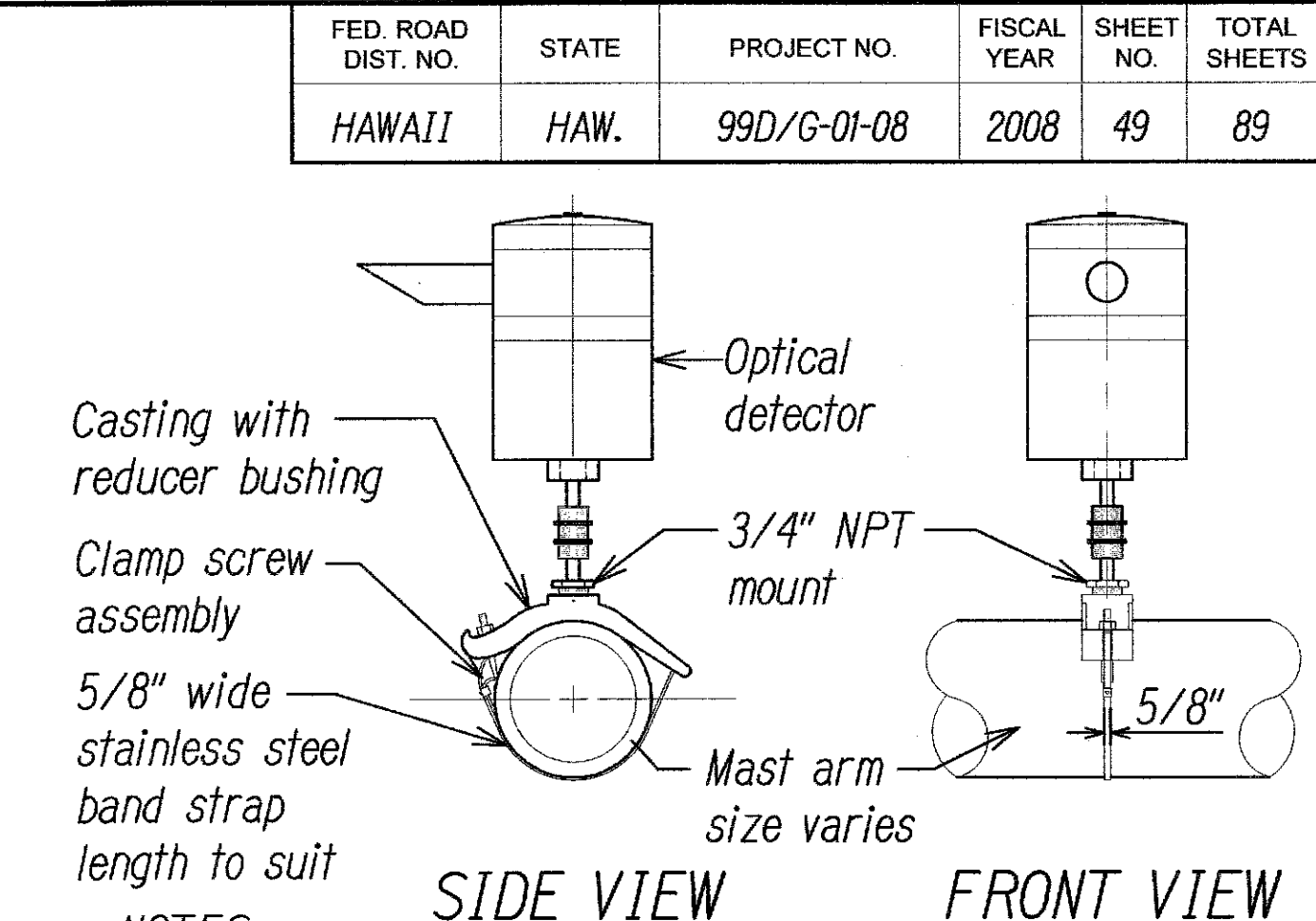
NOT TO SCALE

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
	Text for as-built posting



POST TOP TP-EVP MOUNTING

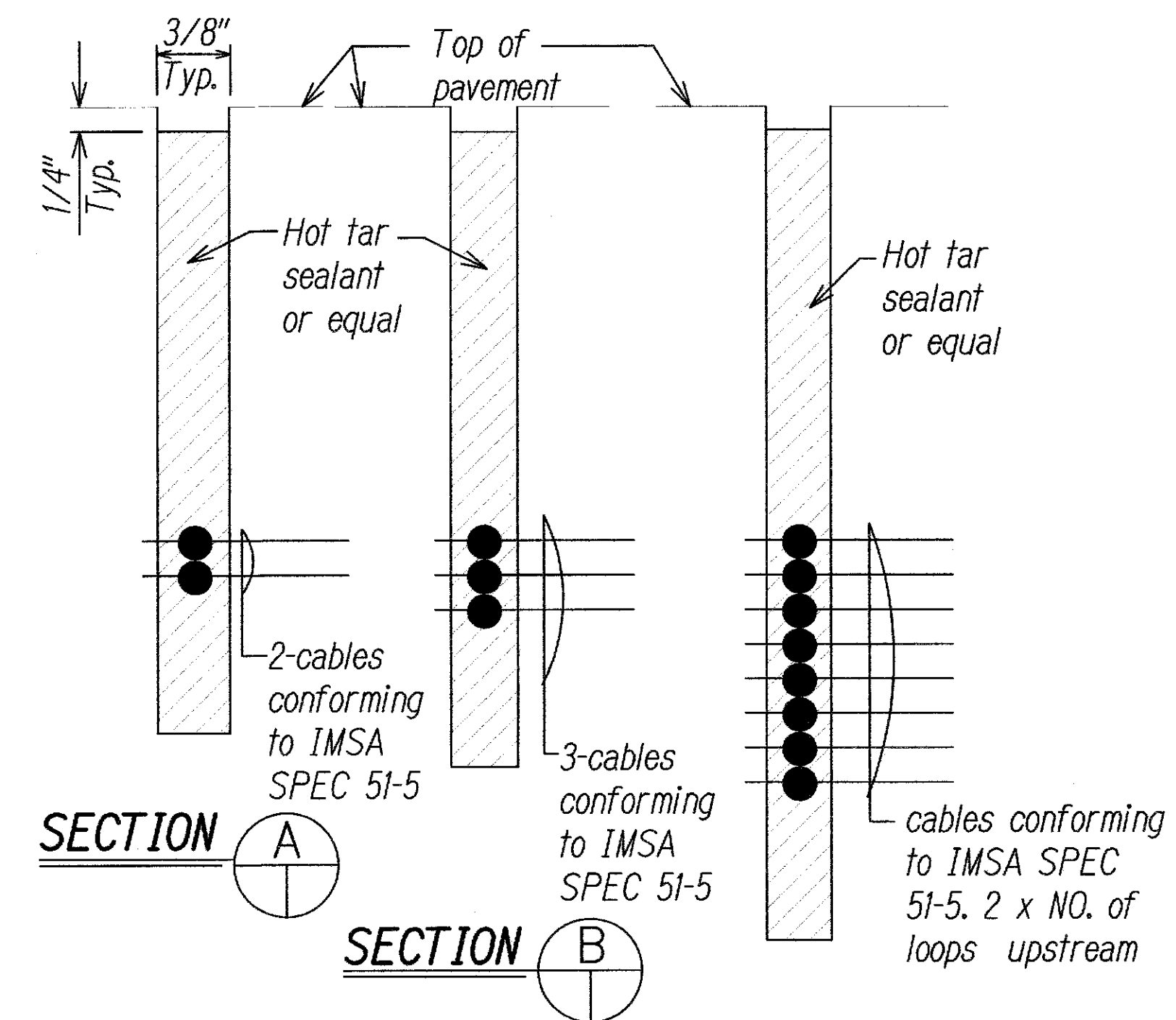
NOT TO SCALE



- NOTES:
- Optical detector shall be "Model 711 preemption detector", or approved equal, unless noted otherwise in the special provisions.
  - Support saddle assembly shall be "ASTRO MINI-BRAC, AB-0132-29", or approved equal, unless noted otherwise in the special provisions.

OPTICAL DETECTOR FOR MAST ARM MOUNTING

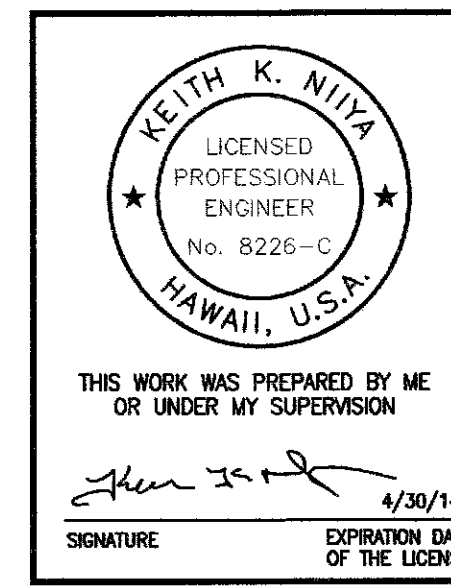
NOT TO SCALE



SECTION A

SECTION B

SECTION C



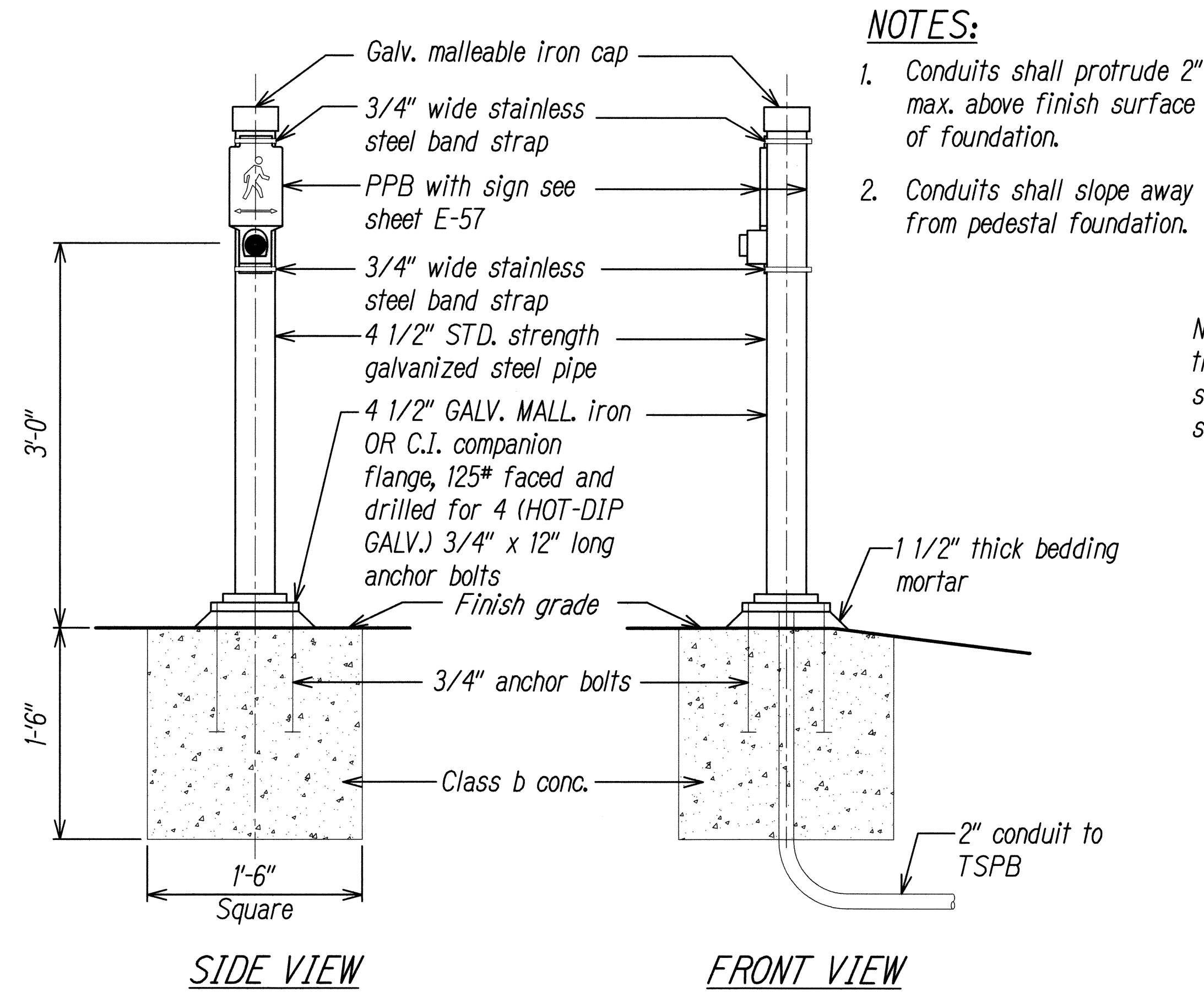
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TRAFFIC SIGNAL PLAN**  
MISCELLANEOUS DETAILS-1  
KAMEHAMEHA HIGHWAY  
TRAFFIC OPERATIONAL IMPROVEMENTS  
VICINITY OF ACACIA ROAD TO CENTER DRIVE  
PROJECT NO. 99D/G-01-08

Scale: As Shown Date: April 2008

SHEET No. TS-30 OF 36 SHEETS

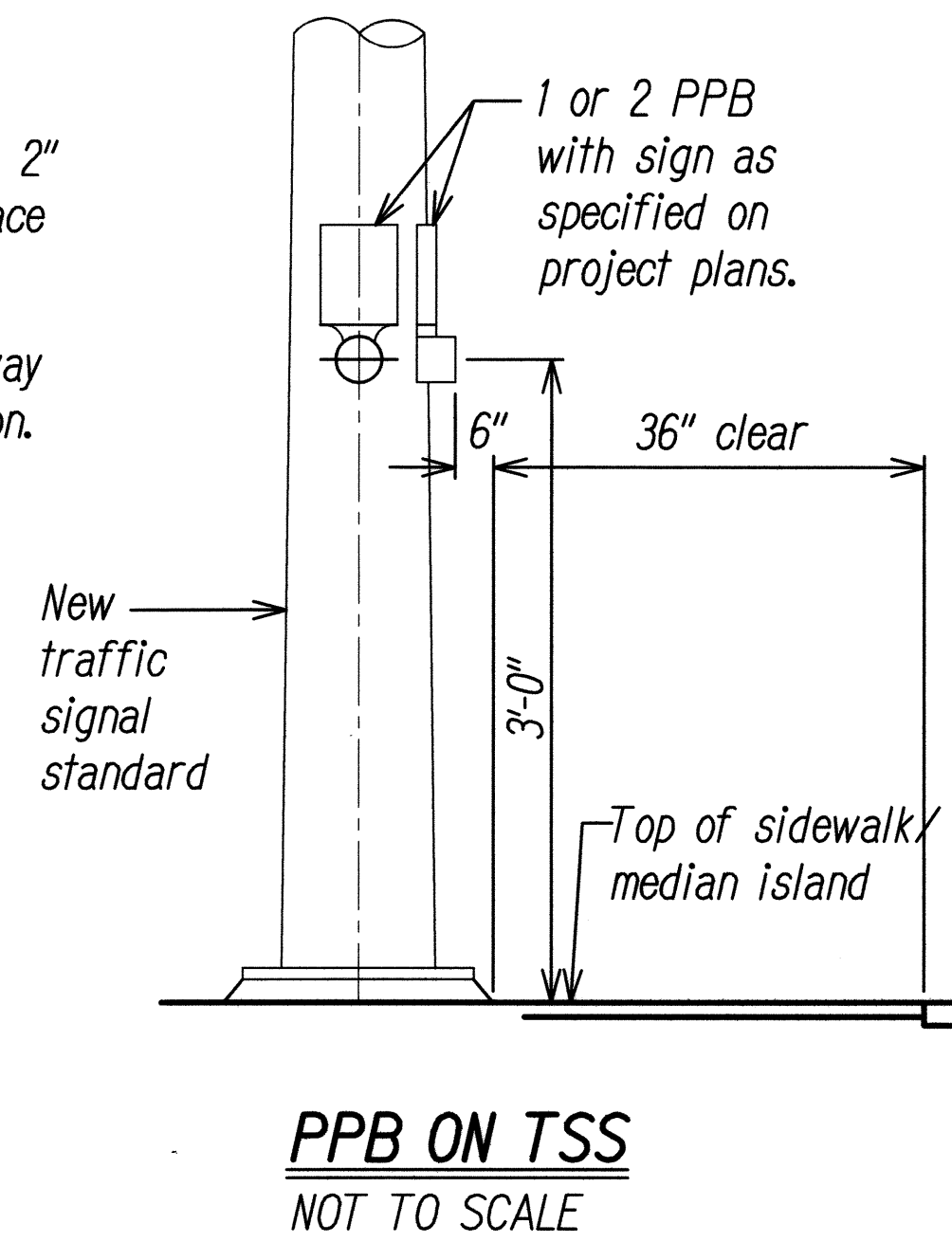
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	99D/G-01-08	2008	50	89



**PEDESTRIAN PUSH BUTTON PEDESTAL**  
NOT TO SCALE

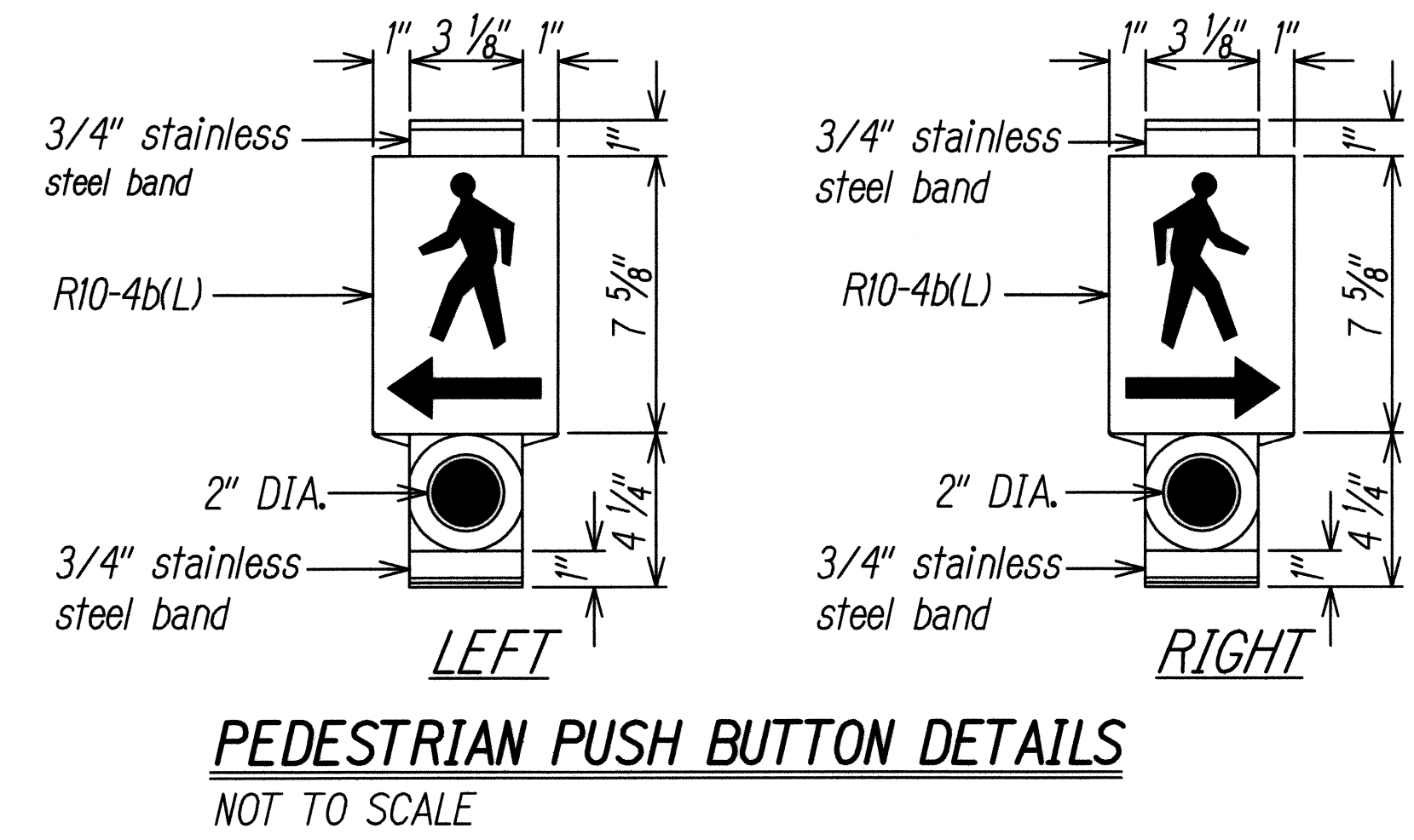


**PEDESTRIAN COUNTDOWN SIGNAL**  
NOT TO SCALE

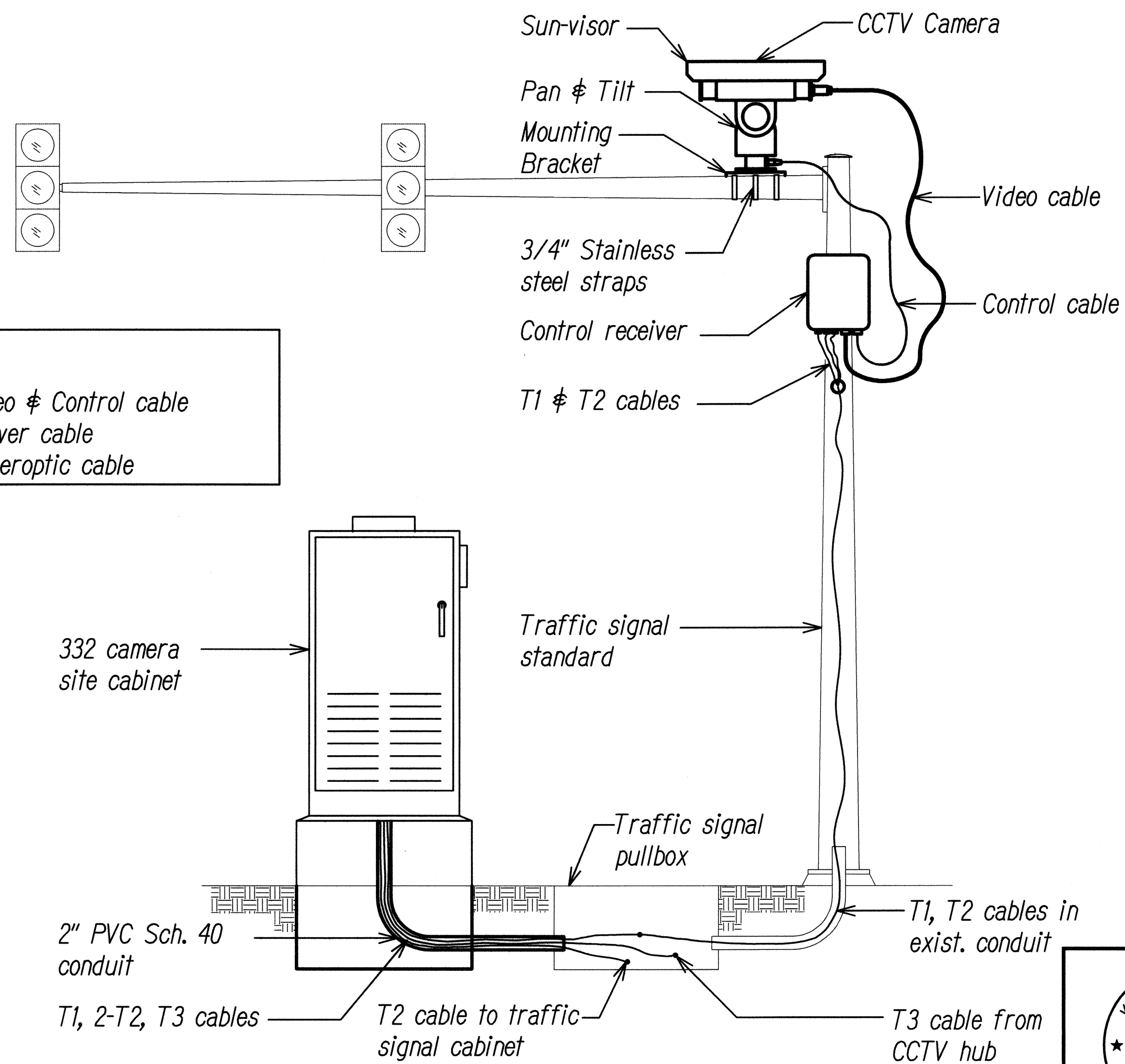


The color scheme shall be:  
 White - Man, arrow and push button  
 Black - Background

NOTE: On plan sheet, use applicable detail. see state STD. DET. for PPB pedestal.



**CABLES**  
 T1 = Video & Control cable  
 T2 = Power cable  
 T3 = Fiberoptic cable



**CCTV CAMERA SITE INSTALLATION**  
NOT TO SCALE

KEITH K. NIYA  
LICENSED PROFESSIONAL ENGINEER  
No. 8226-C  
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

4/30/10  
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TRAFFIC SIGNAL**  
MISCELLANEOUS DETAILS-2  
KAMEHAMEHA HIGHWAY  
TRAFFIC OPERATIONAL IMPROVEMENTS  
VICINITY OF ACACIA ROAD TO CENTER DRIVE  
PROJECT NO. 99D/G-01-08

Scale: As Shown      Date: April 2008

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