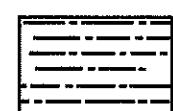
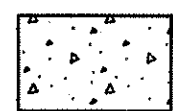


STATE RIGHT-OF-WAY BACKFILL NOTES



Trench Backfill Material "A"
Beach Sand, Earth, or Earth
and Gravel. If Earth and Gravel
used, the maximum shall contain
not more than 50% by volume of
rock particles. Maximum 8" loose
fill per lift. Obtain 95% compaction
for each lift.

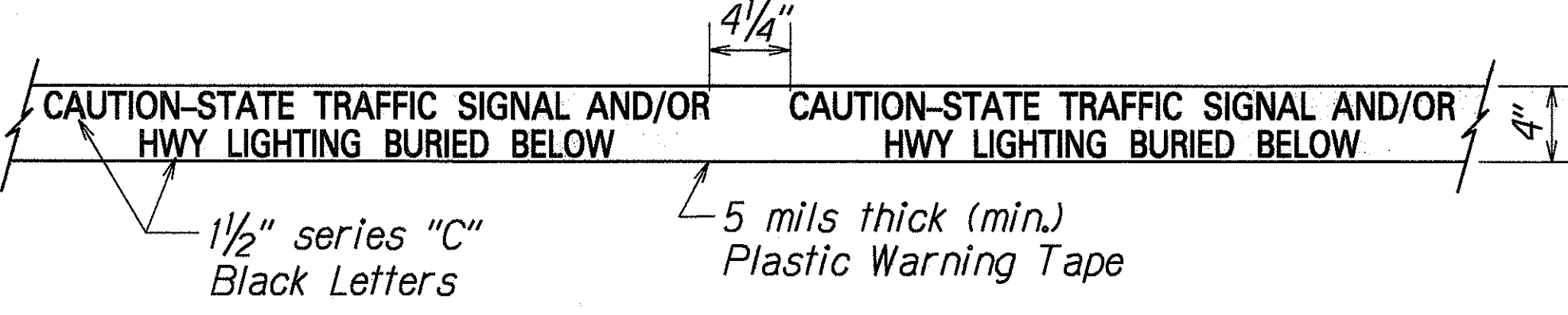


Concrete
3000 psi compressive strength
@ 3 days.

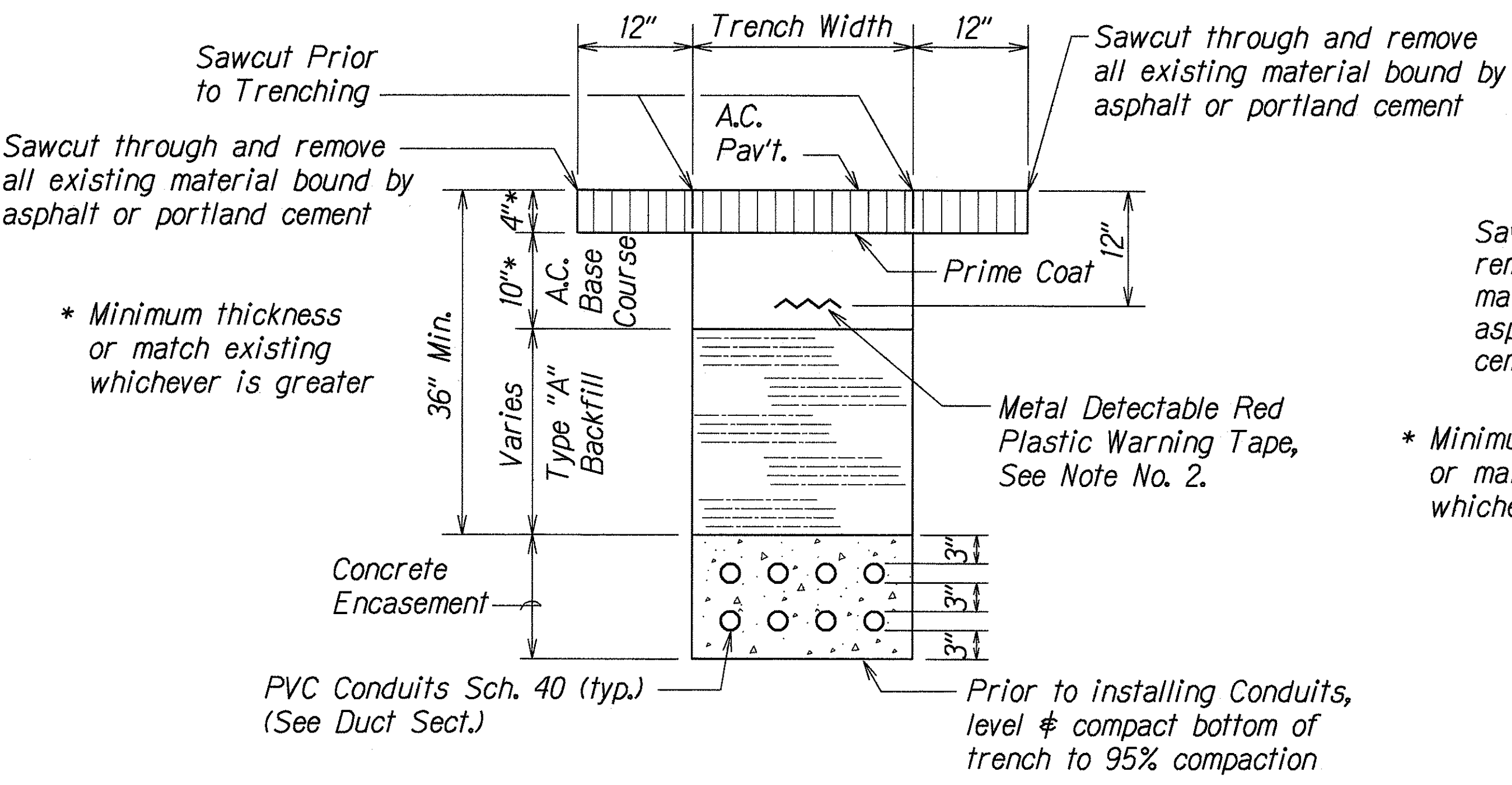
NOTE: Base Course & Sub-Base Course per
1994 State Standard Specifications
for Highway Construction.

GENERAL NOTES

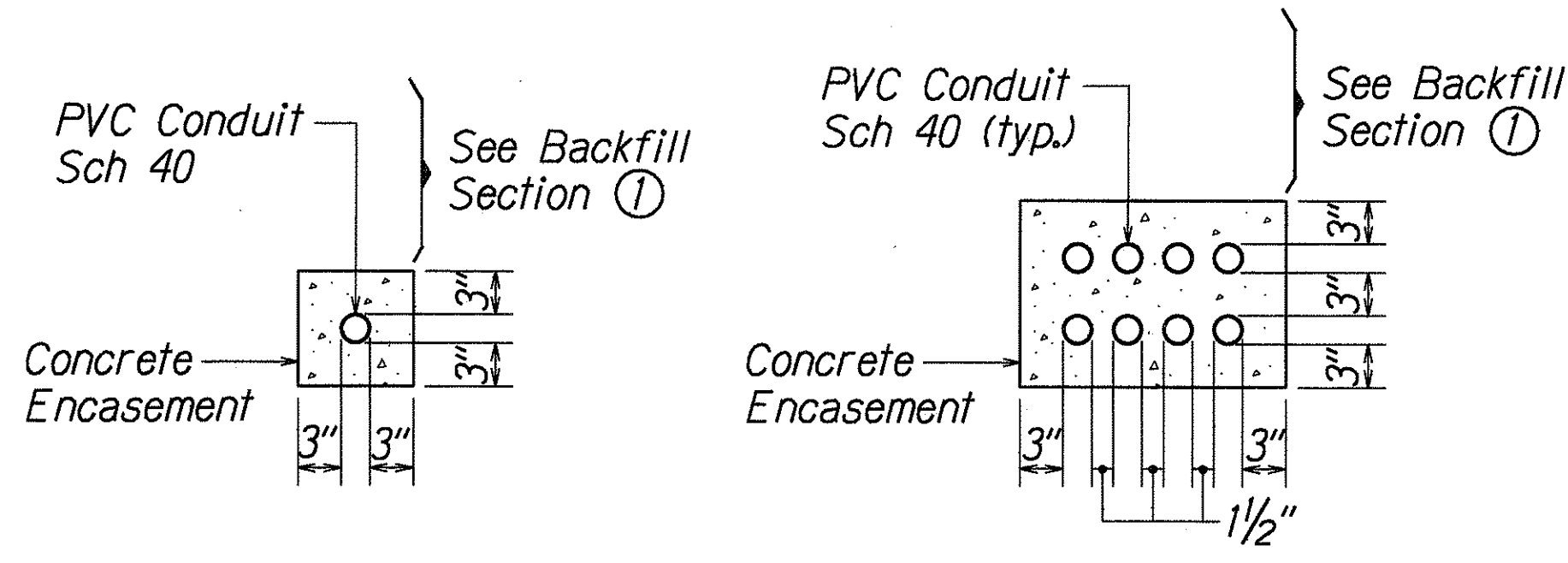
1. If trench is located on unpaved area, the Contractor shall replace 10" A.C. Base Course and 4" A.C. Pavement with Type "A" backfill material.
2. The Metal Detectable Red Plastic Warning Tape shall be a minimum 5 mils thick and 4" wide with a continuous metallic backing and corrosion resistant 1± mil thick foil core. The message on the tape shall read, "CAUTION - STATE TRAFFIC SIGNAL AND/OR HWY LIGHTING BURIED BELOW," utilizing 1½ inches series "C" black lettering. The message will be repeated with a 4¼" spacing between top line of message and start of next repeat.
3. The Contractor may begin backfilling the conduit trench when the concrete reaches 3000 psi compressive strength after 3 days.
4. Maximum four (4) Conduits per row for multiple conduit duct section.
5. For direct buried duct sections, the concrete jacket required at the conduit by-pass for various utilities, shall not be paid for separately but considered incidental to the direct buried conduits.
6. After installing all the traffic signal cables, the Contractor shall duct seal all conduits in the pullboxes, traffic signal standards and traffic signal controller cabinet concrete base. The duct seal material shall be approved by the Traffic Signal Inspector/Engineer and shall not be paid for separately but considered incidental to the direct buried and/or concrete encased conduits.



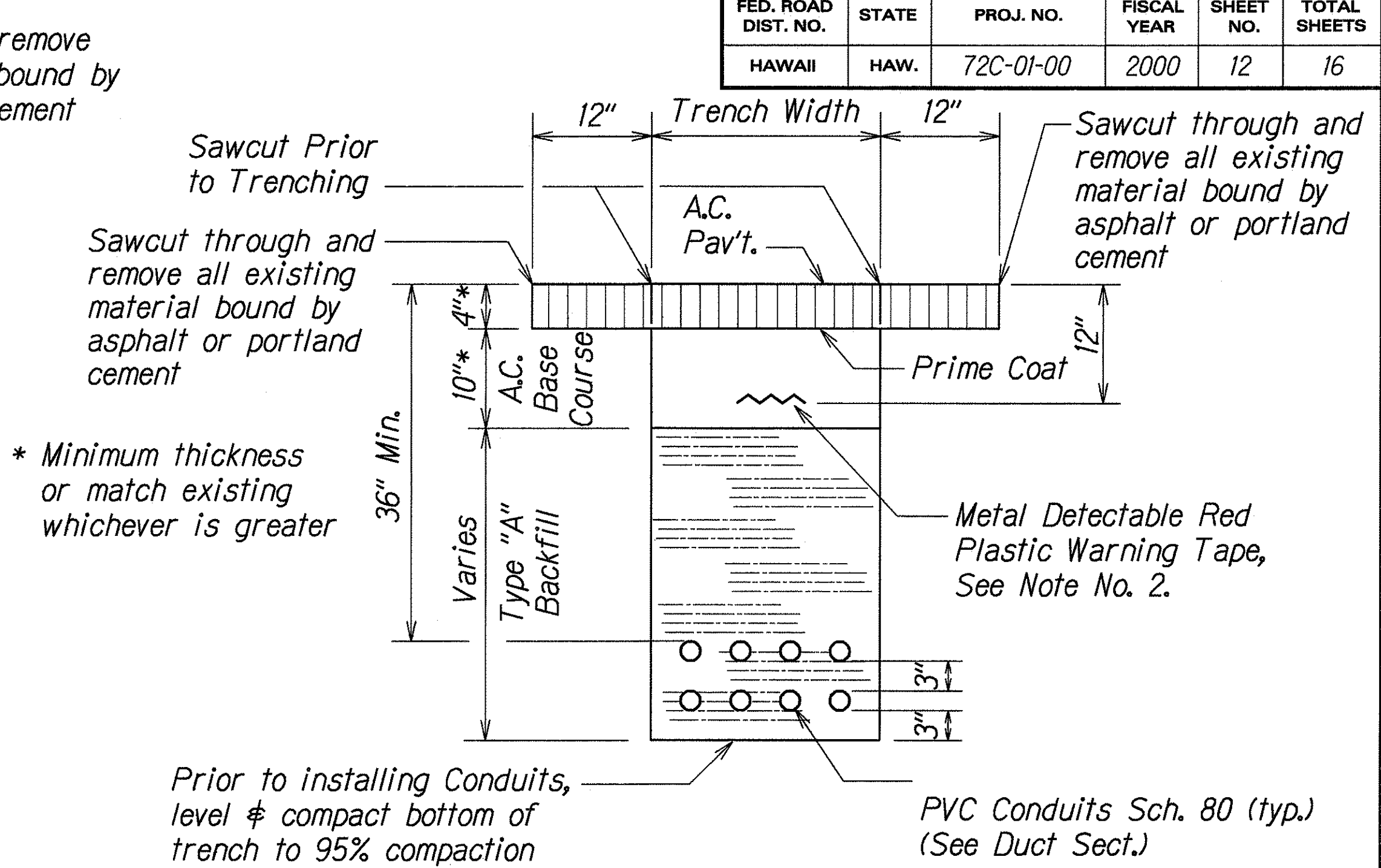
For additional information see note no. 2.
METAL DETECTABLE RED PLASTIC WARNING TAPE



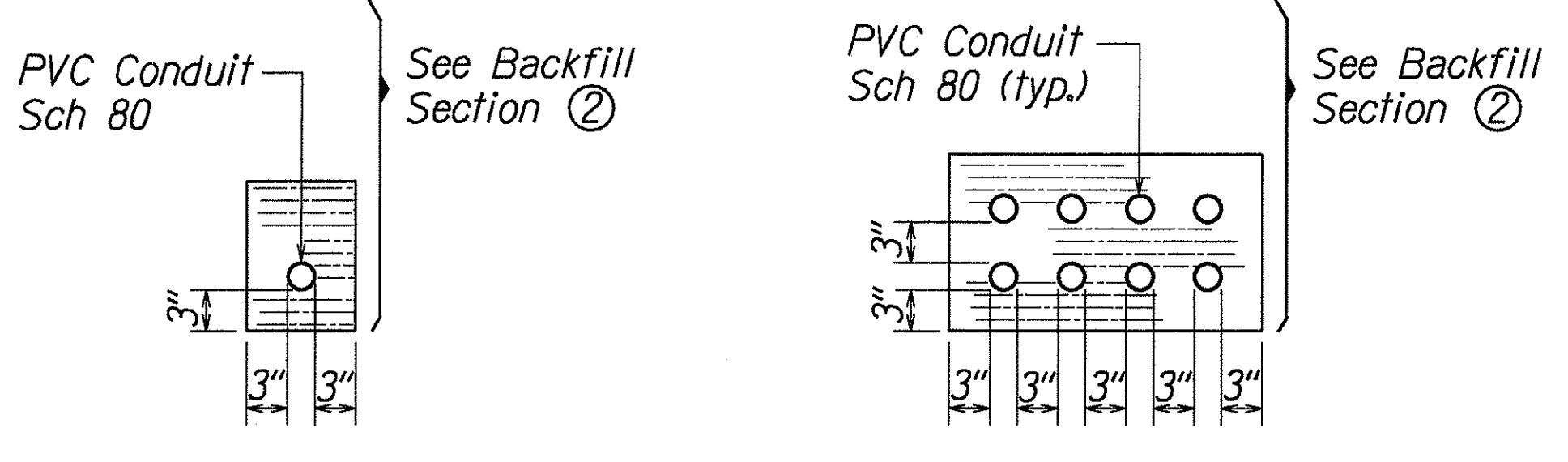
① TYPICAL BACKFILL SECTION
WITH CONCRETE ENCASED DUCTS



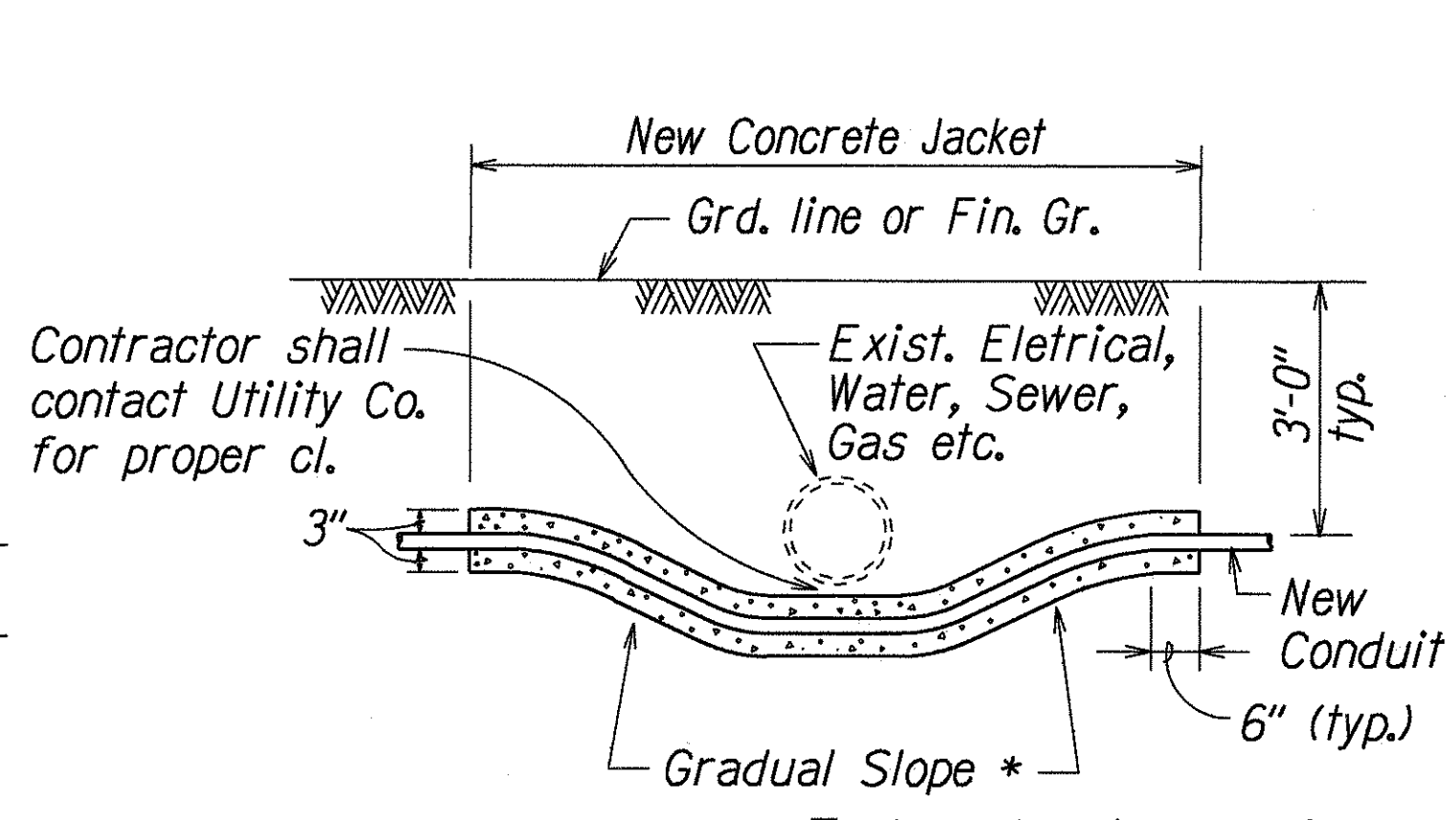
SINGLE CONDUIT MULTIPLE CONDUIT
DUCT SECTIONS - CONC. ENCASED



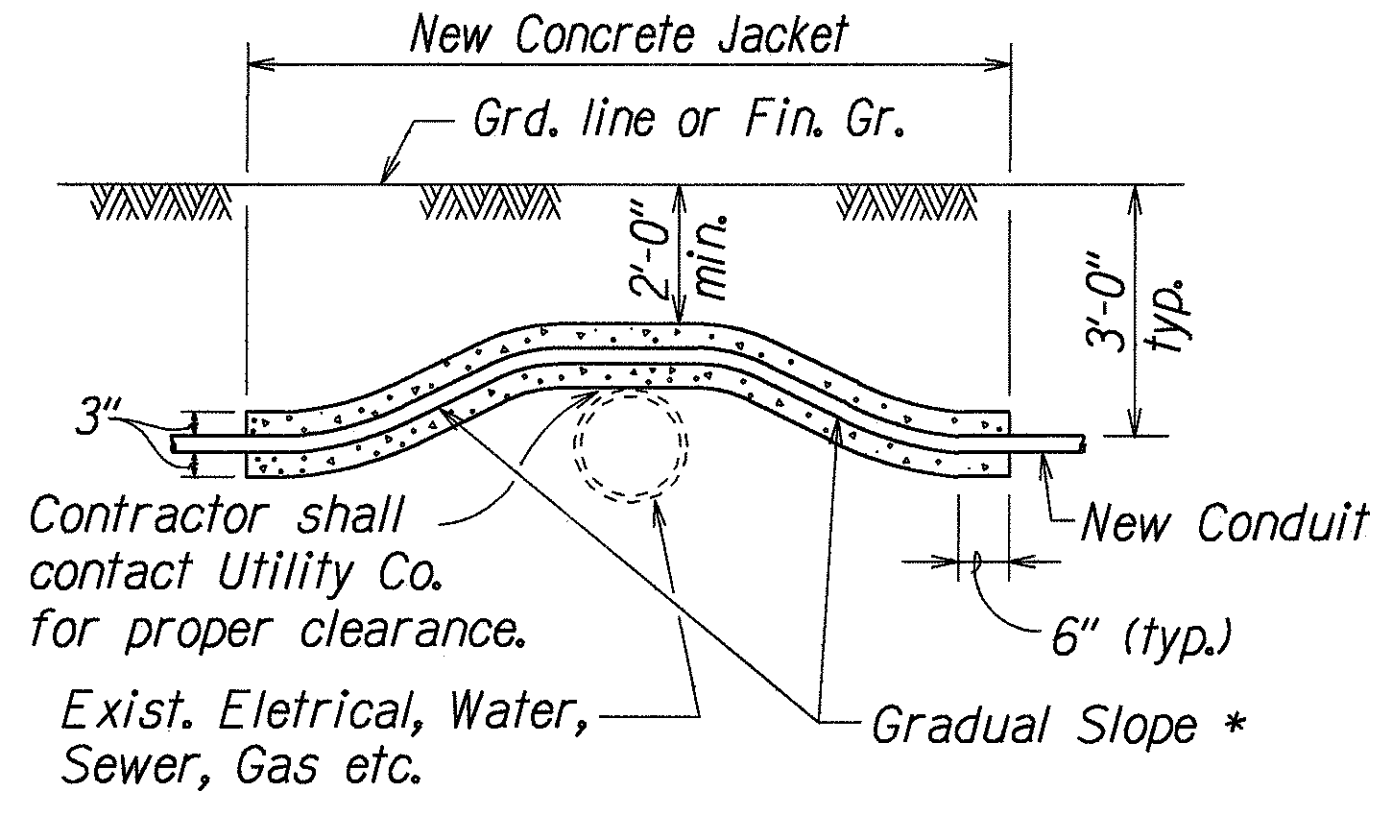
② TYPICAL BACKFILL SECTION
DIRECT BURIED DUCTS



SINGLE CONDUIT MULTIPLE CONDUIT
DUCT SECTIONS - DIRECT BURIED



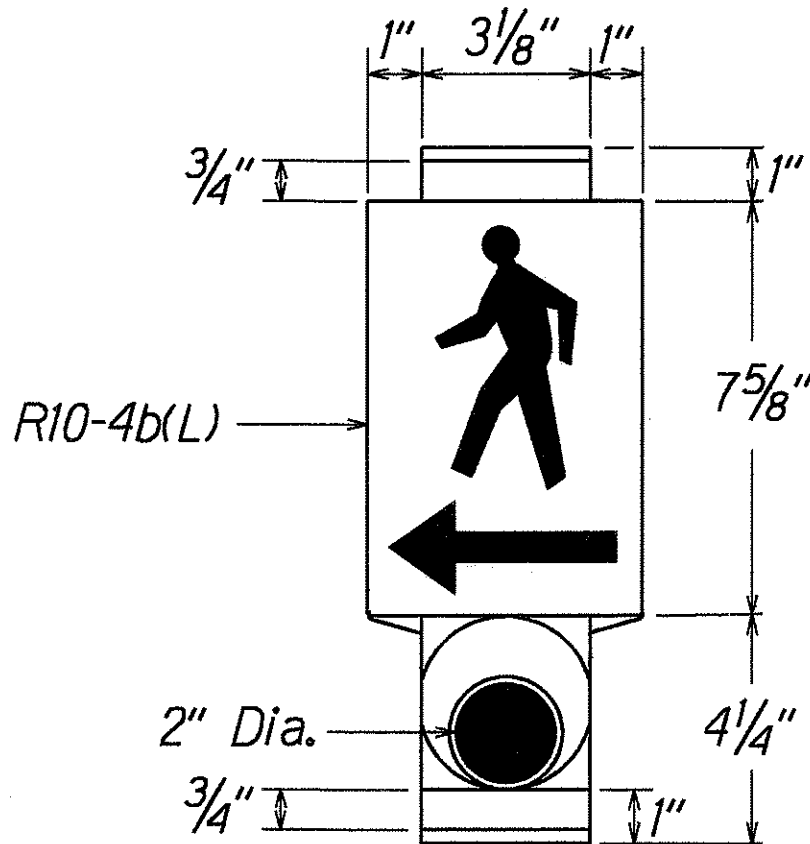
* To be determined by County Electrical Inspector/Engineer
CONDUIT BY-PASS DETAIL AT VARIOUS UTILITIES



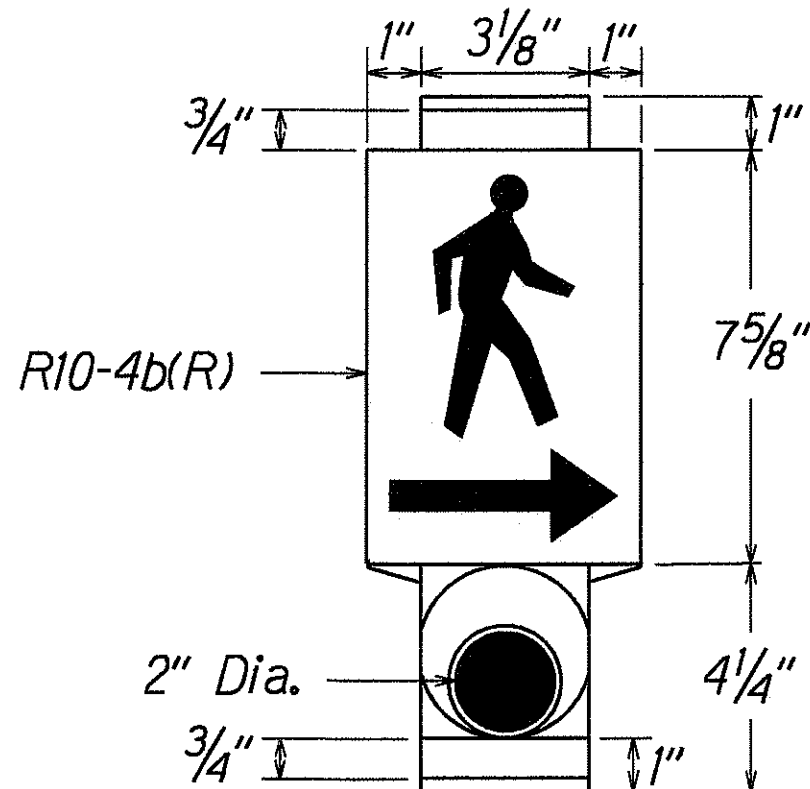
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TRAFFIC SIGNAL DETAILS
KALANIANA'OLE HIGHWAY
Installation of Traffic Signals
at Anali Street
Project No. 72C-01-00
Not to Scale Date: Jan., 2000
SHEET No. 1 OF 2 SHEETS

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

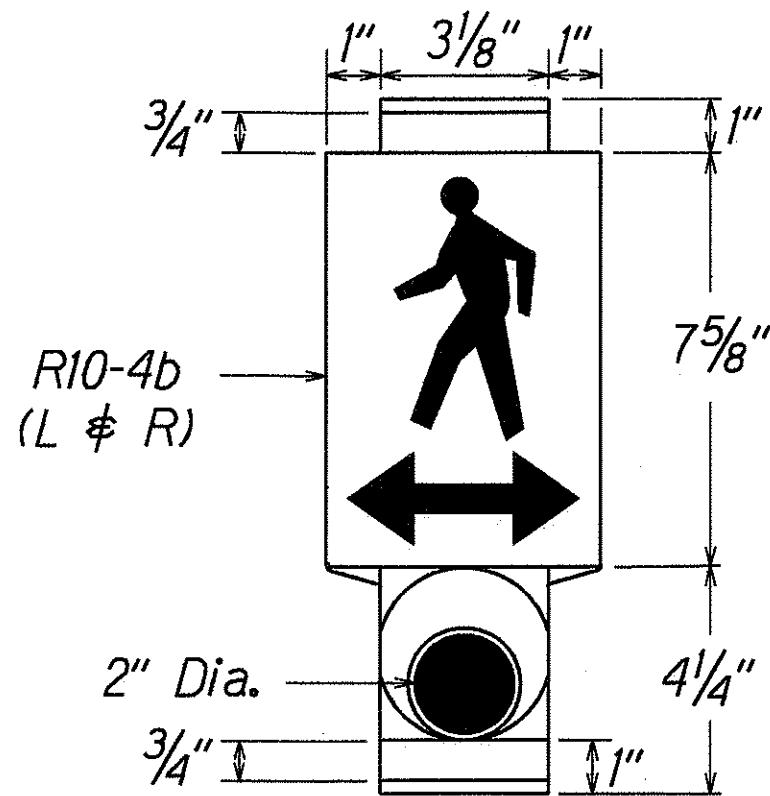
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72C-01-00	2000	13	16



Left



Right

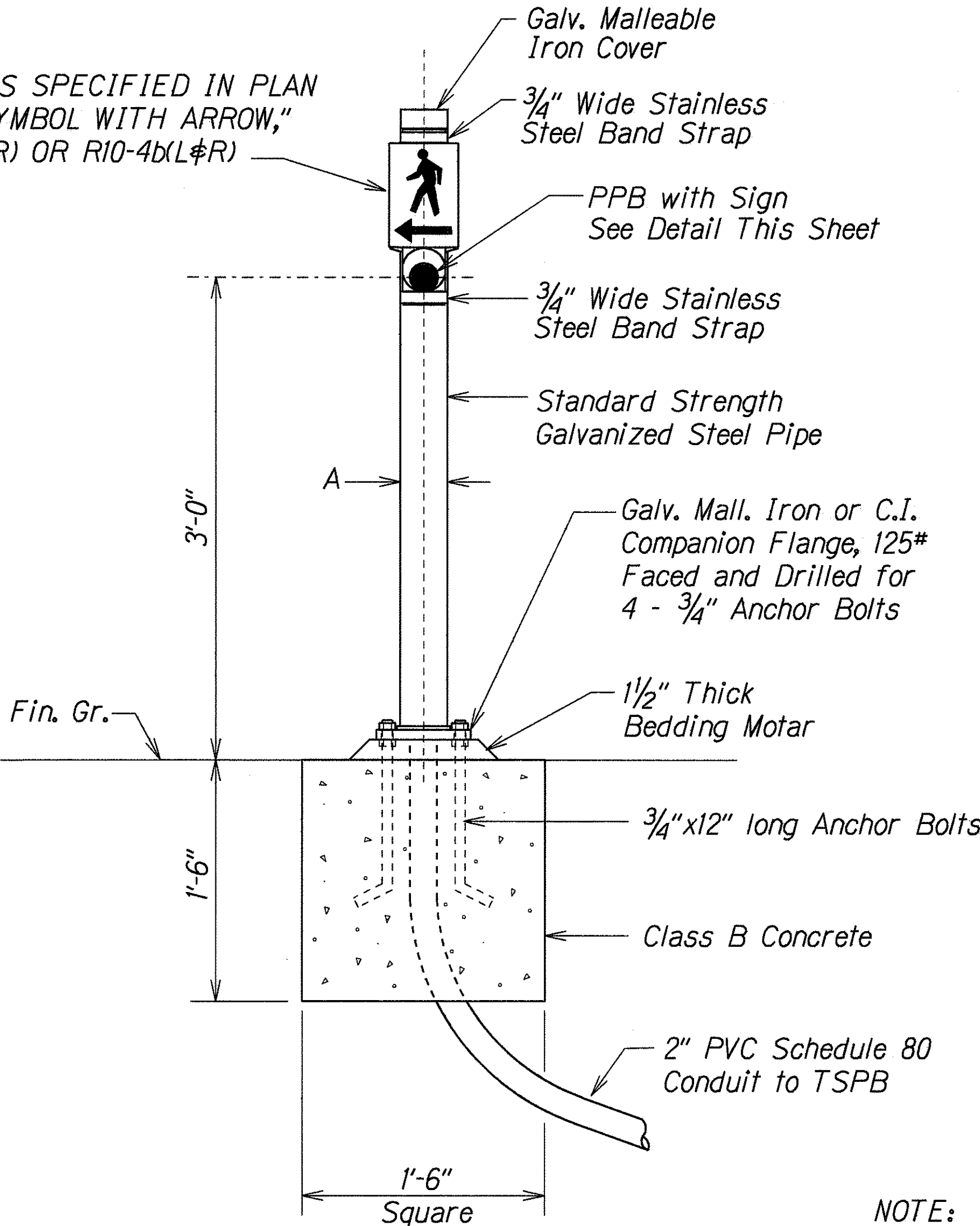


Left & Right

PEDESTRIAN PUSH BUTTON WITH SIGN

Man, Arrow & Push Button - White
Background - Black

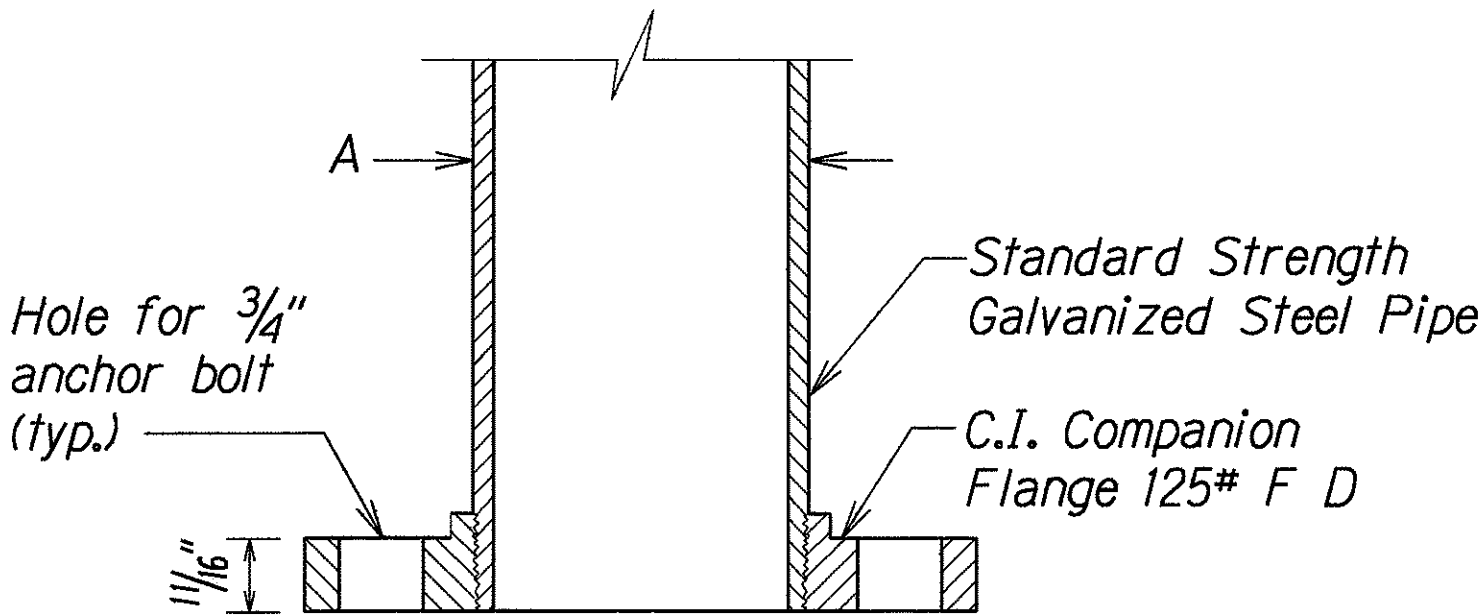
TRAFFIC SIGN AS SPECIFIED IN PLAN
"WALKING MAN SYMBOL WITH ARROW,"
R10-4b(L), R10-4b(R) OR R10-4b(L&R)



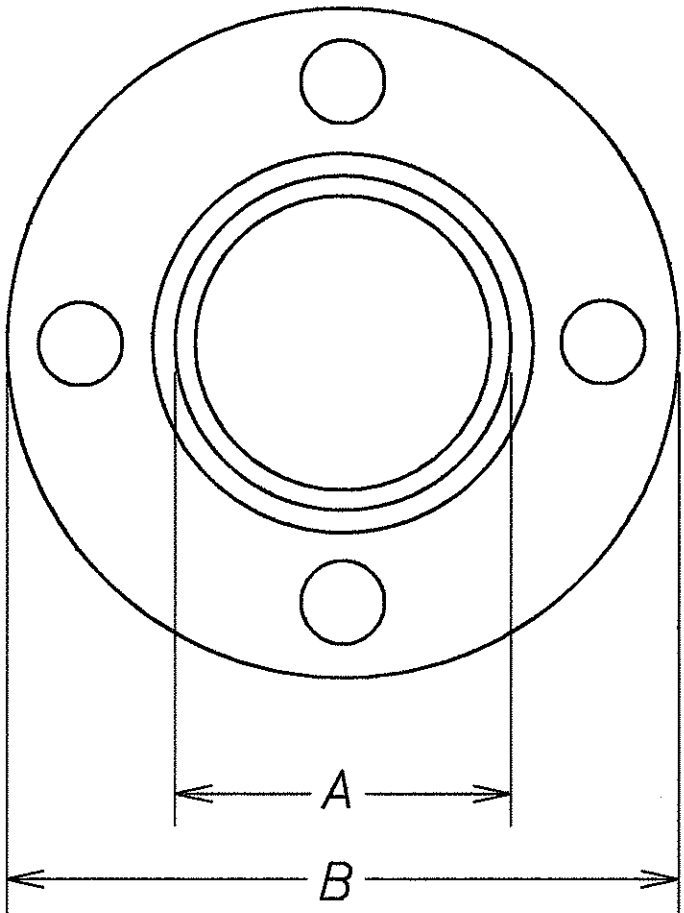
PPB POST AND FOOTING DETAIL

DATA TABLE FOR PPB POST		
AMOUNT OF PPB	DIMENSIONS	
	A	B
1	3 1/2"	8"
2 → 3	4 1/2"	9"

- NOTE:
1. Conduits shall protrude 2" max. above finished surface of foundation.
 2. Conduits shall slope away from post foundation.



SECTION



TOP VIEW

FLANGE DETAIL

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NOTED BY	
DATE	
BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNAL DETAILS
PEDESTRIAN PUSHBUTTON DETAILS
KALANIANA'OLE HIGHWAY
Installation of Traffic Signals at Analii Street
Project No. 72C-01-00
Scale: Not to scale Date: Jan., 2000

SHEET No. 2 OF 2 SHEETS