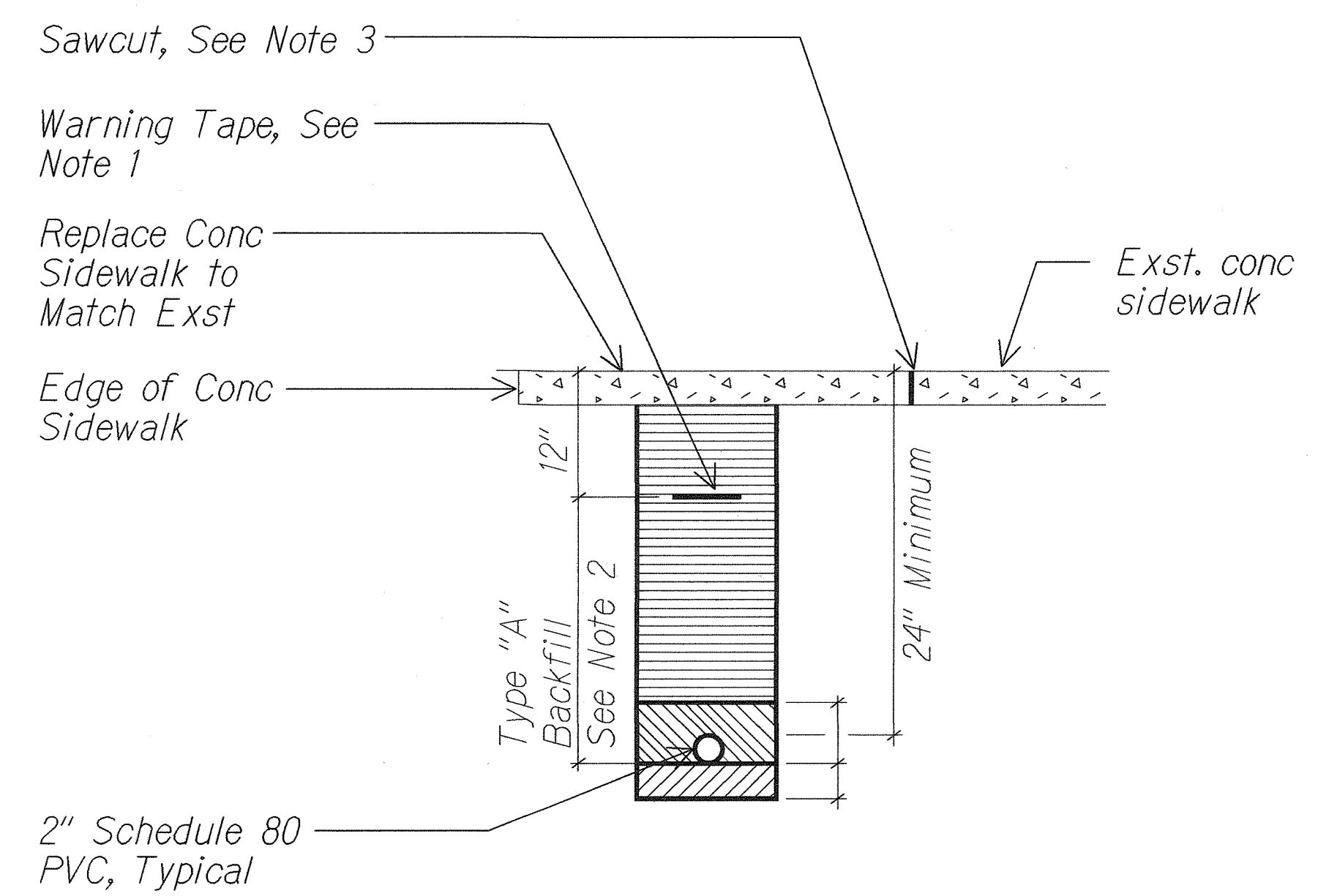


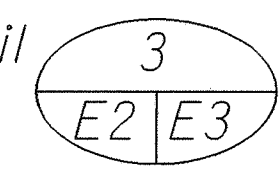
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-05-00	2002	28	30



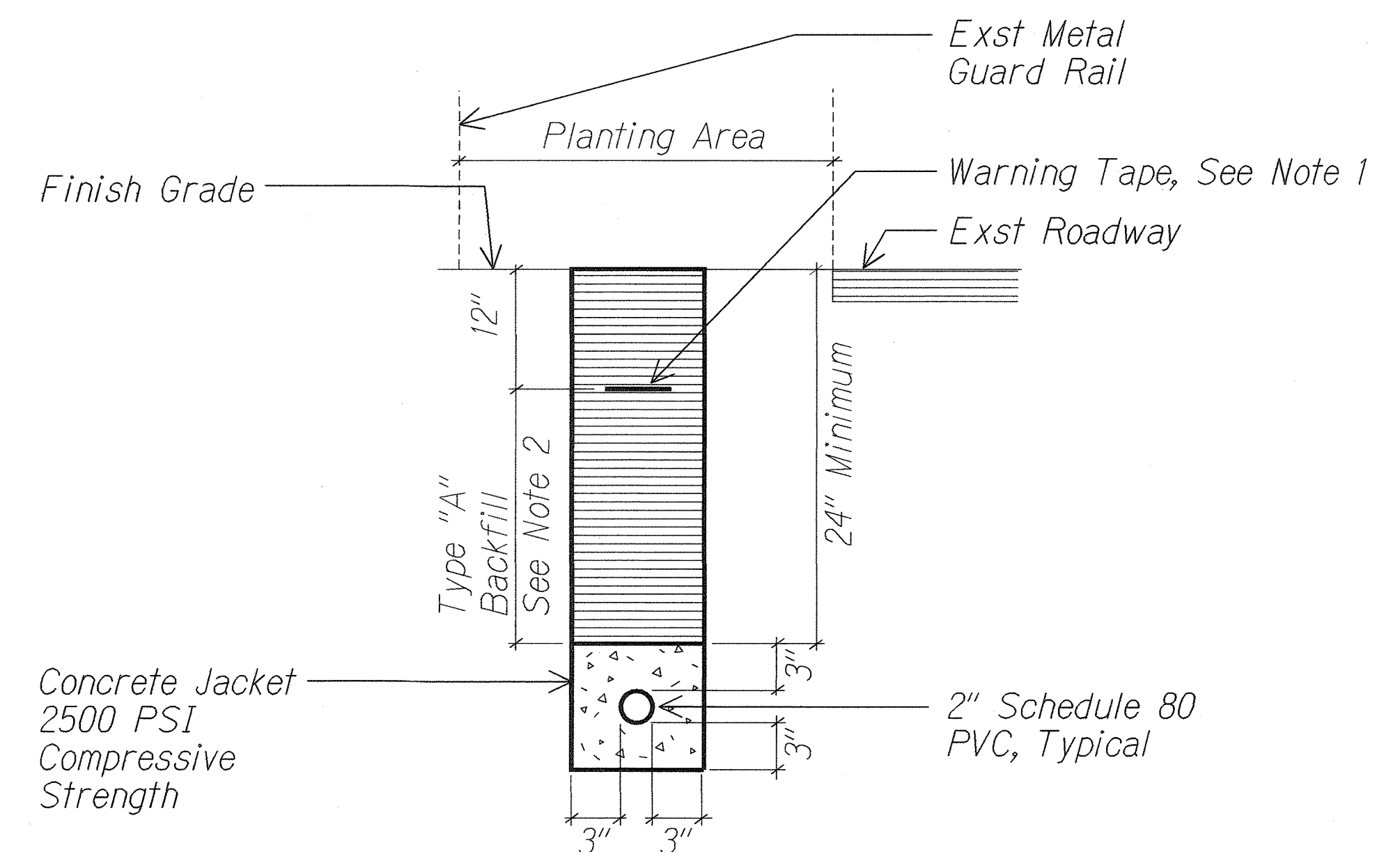
- NOTES:
- 8 mil thick orange colored plastic warning tape 3" wide entire length of duct. Tape to have continuous metallic backing and corrosion resistant foil core. Warning and identification to be imprinted on tape and shall read "CAUTION BURIED ELECTRIC CABLE BELOW". Message shall be repeated approximately every ten feet..
 - Type "A" Backfill: Beach sand, earth or earth and gravel used, the maximum rock size shall be 1" and the mixture shall contain not more than 50% by volume of rock particles.

Type "B" Backfill: Same as type "A" except that if earth & gravel used, the mixture must pass a 1/2" mesh screen & contain not more than 20% by volume of rock particles. 95% compaction

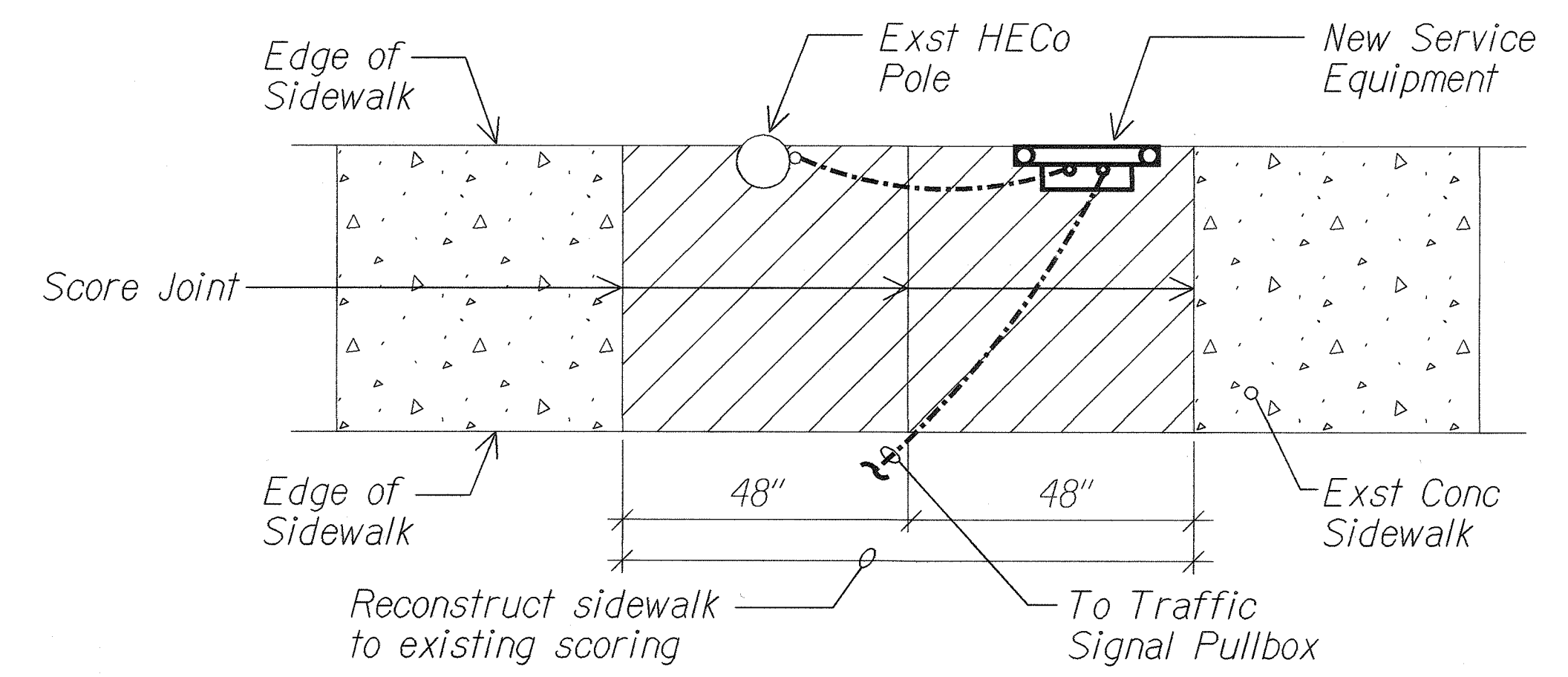
Note A: If the normal material in the bottom of trench is not type "B", an additional 3" shall be excavated & type "B" backfill shall be provided.
 - Sawcut at score joint. Replace concrete sidewalk within that area. See detail



1 DIRECT BURIED CONDUIT (UNDER CONC. SIDEWALK)
E2 E3 Not to scale 01015-D6



2 CONCRETE ENCASED (NON-ROADWAY AREA)
E2 E3 Not to scale 01015-D5



3 SIDEWALK RECONSTRUCTION DETAIL
E2 E3 Not to scale 01015-D8

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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
P.R. KATAHARA 3/5/02
HAWAII ENGINEERS, LTD.

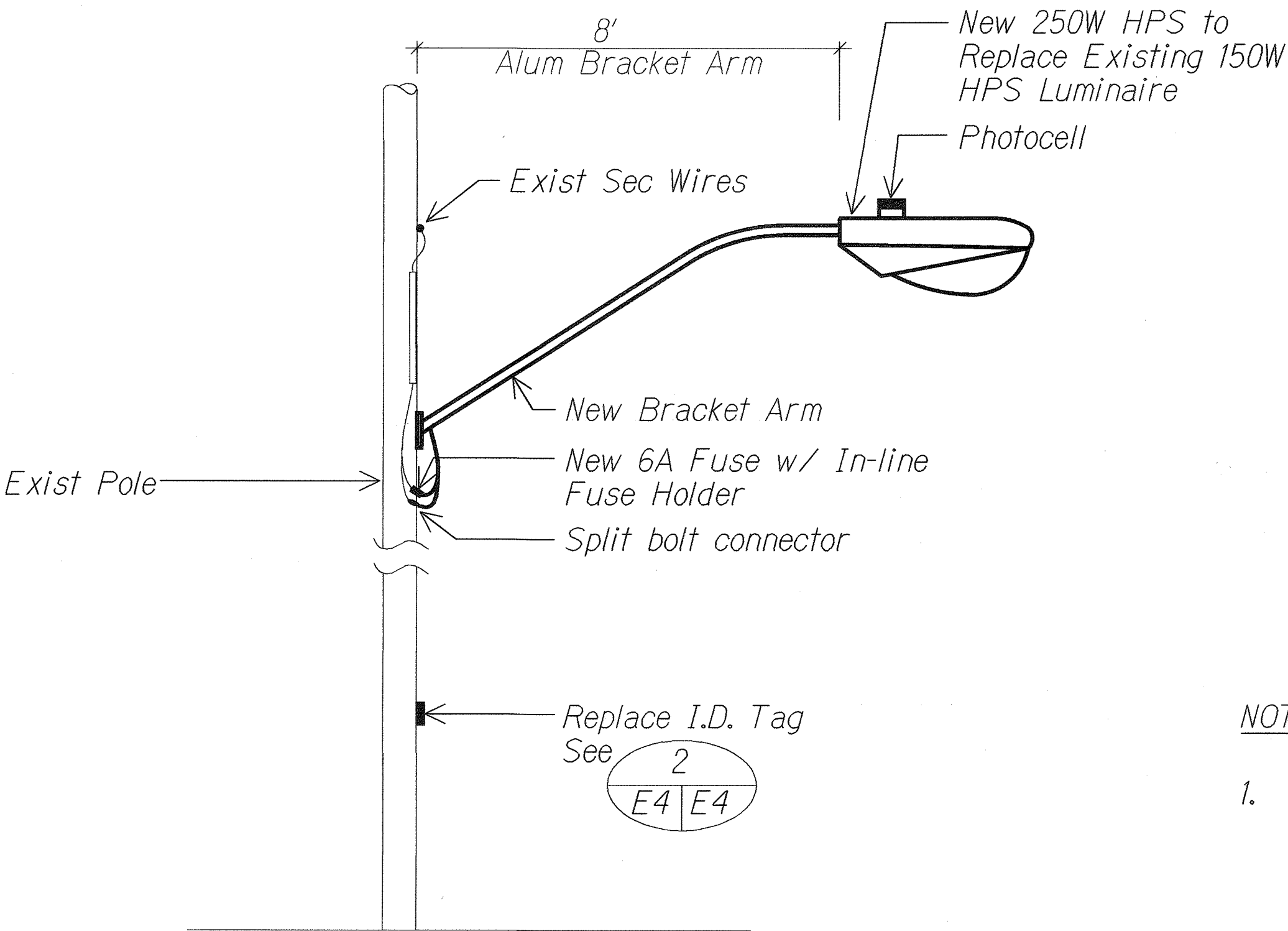
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ELECTRICAL DETAILS
SAND ISLAND ACCESS ROAD
Intersection Improvements at Road No. 2
Project No. Hwy-0-05-00

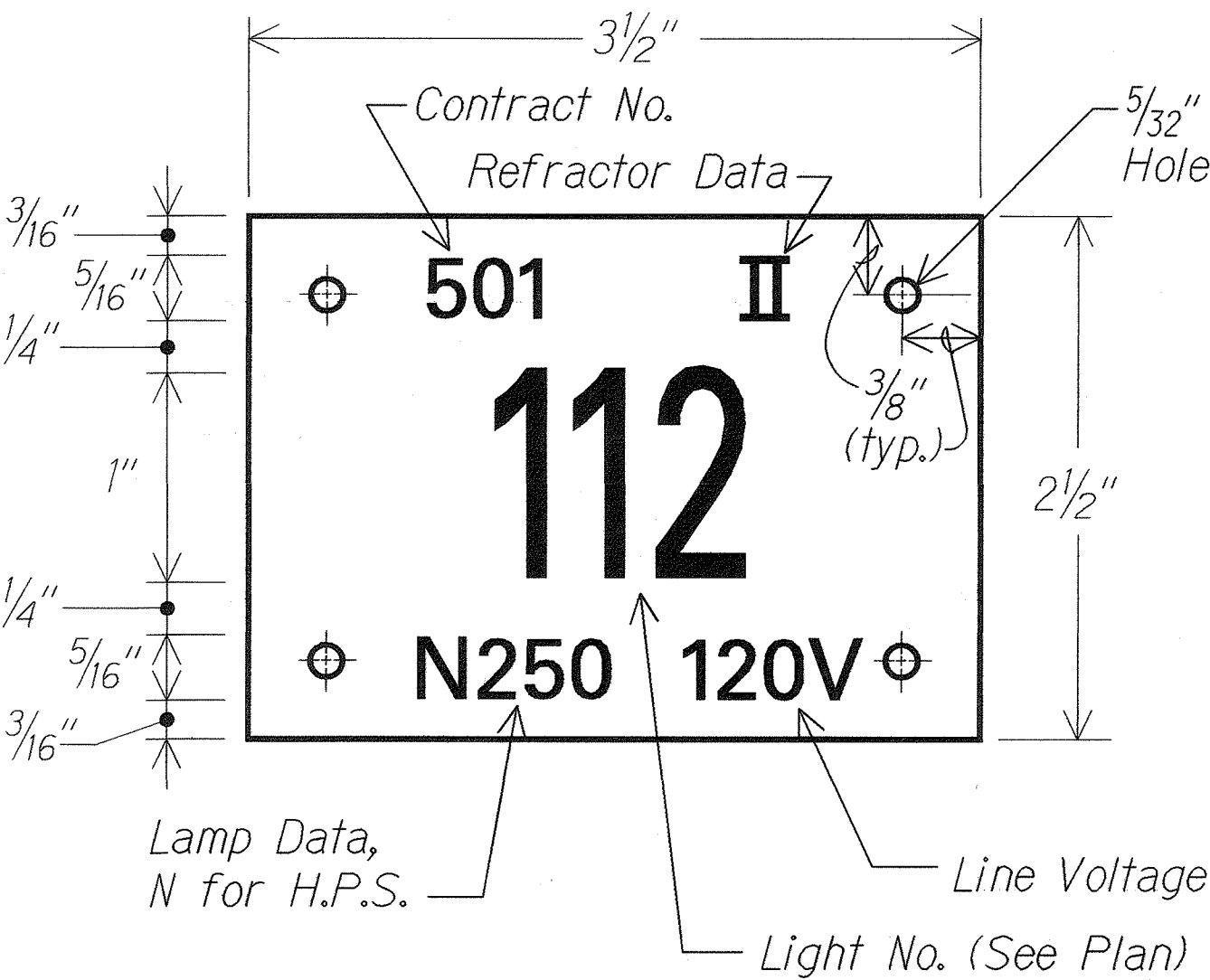
Scale: As Shown Date: Feb. 2002

SHEET No. E-3 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-05-00	2002	29	30



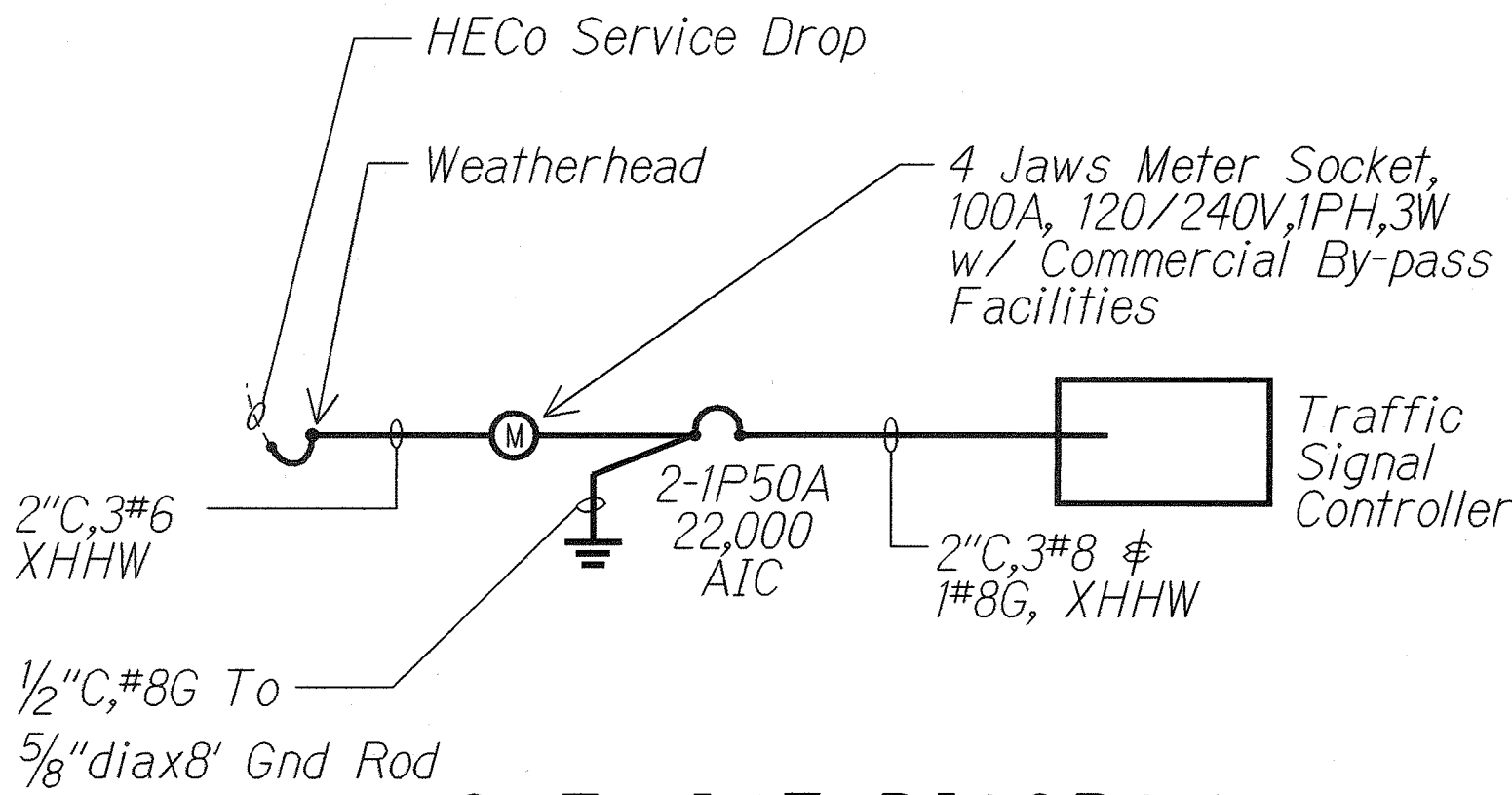
1 STREET LIGHT POLE
Not to scale
01015-D3



NOTES:

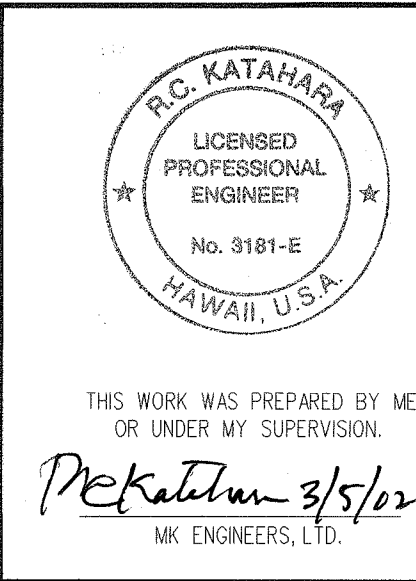
- Use 3 Ply Laminated Flexible Plastic Black-White-Black Thickness:
0.010" - Black Cap Sheet
0.052" - White Base Sheet
0.010" - Black Base Sheet
- Light Number Size shall be 1-inch high and engraved 1/8" wide, White in color (Number as required).
- Nomenclature Size shall be 5/16" high and engraved 1/32" wide, White in color (Contract No., Line Voltage, Lamp Data and Refractor Data as required).
- Attach to Aluminum and Steel Poles with no. 8 Stainless Steel, 1/2" long Drive Screws in 1/8" drilled hole. Attach to Wood Pole with 4D Aluminum Nails.
- Numbers are inscribed by cutting through "Black Cap Sheet" to expose "White Letters".
- Contract Number and Light Number shall be obtained from the State. Use an alphabet suffix to designate lights mounted on the same pole (e.g. 123A & 123B).
- For Light Poles installed on Ramp, assign Numbers to include Ramp I.D. and Light Number. Legend may be less than one inch in height.

2 HIGHWAY LIGHT POLE TAG DETAIL - UNMETERED SYSTEM
Not to scale
01015-D7



ONE-LINE DIAGRAM
No scale
01015-1L

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



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ELECTRICAL DETAILS

SAND ISLAND ACCESS ROAD
Intersection Improvements at Road No. 2
Project No. Hwy-0-05-00

Scale: As Shown Date: Feb. 2002

SHEET No. E-4 OF 5 SHEETS