

3B Fine Cushion Fill

FED. ROAD DIST. NO.

FISCAL SHEET TOTAL YEAR NO. SHEETS

2014

FED. AID PROJ. NO.

HAW. | HSIP-0130(031)

SECTION THRU

CMP CULVERT & CONC. JACKET

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



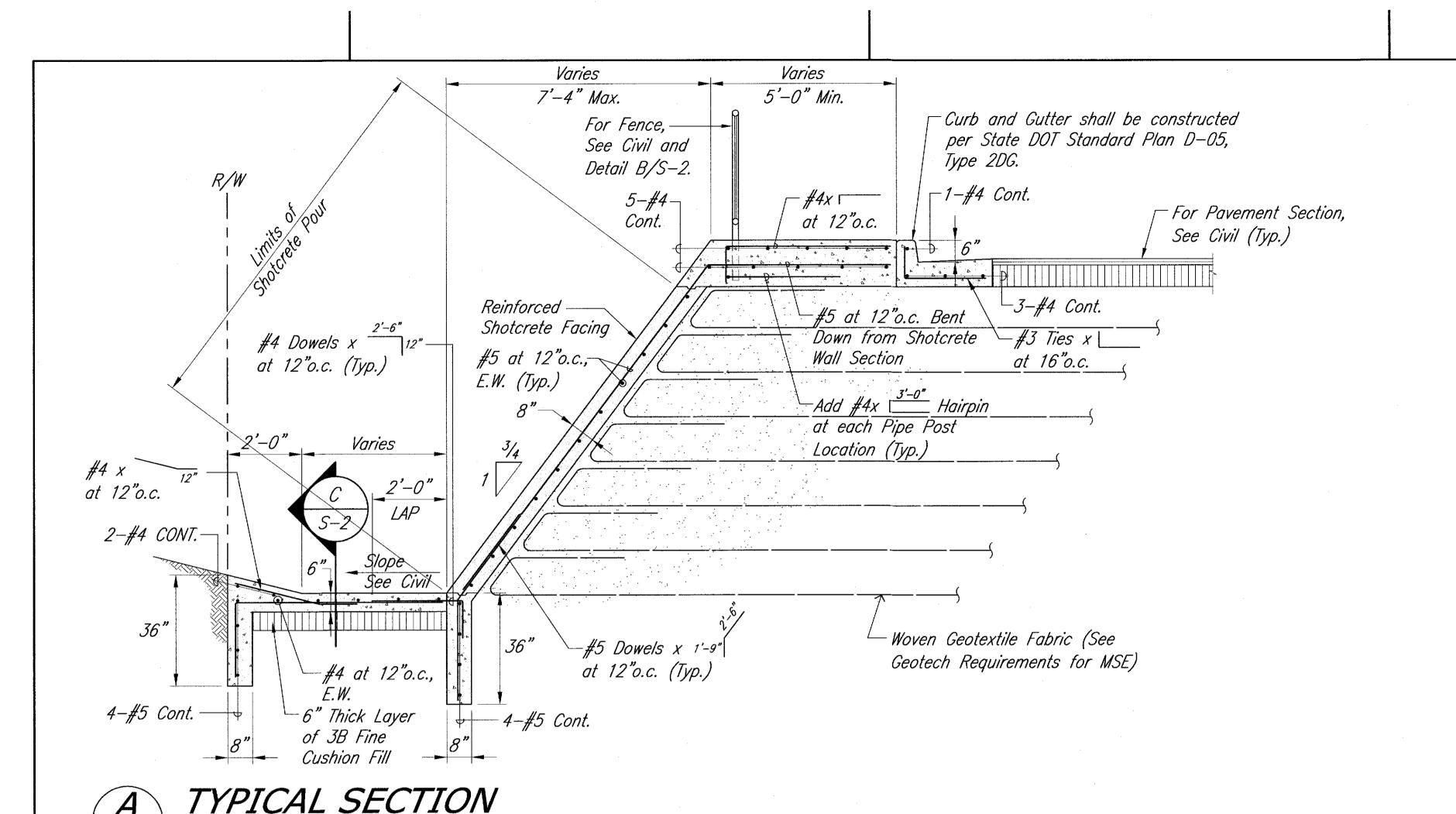
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

Culvert Extension, Headwall and Lightpole Foundation Details

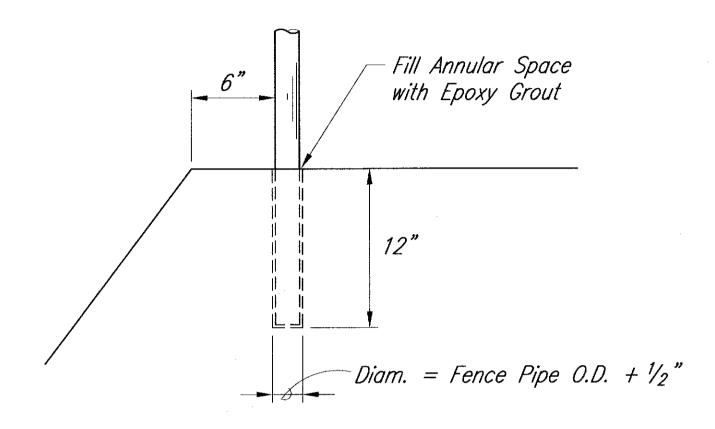
Keaau-Pahoa Road Intersection Improvements at Old Government Road Federal-Aid Project No. HSIP-0130(031)

Scale: As Noted Date: August 2013 SHEET No. S-1 OF 2 SHEETS

79



FED. AID PROJ. NO. NO. YEAR DIST. NO. SHEETS HSIP-0130(031) 2013 80 HAWAII



FENCE POST DETAIL

Keaau-Pahoa

NOT TO SCALE

-4 A.B. Provided by

Provide Dbl. Set

of Ties at Top

Leveled)

— 3" Clr. (Тур.)

Light Pole Manufacturer

with Dbl. Leveling Nuts.

2" Grout Bed (Place After

Base Plate and Pole is

Drilled Shaft Embedment Roadway Station No. Length (feet)* 1.D. No. 13+20R Basalt Rock Keaau-Pahoa 14+50R Basalt Rock Keaau-Pahoa 14+45 Fill 15+80R Keaau-Pahoa 0+80R Old Government Ra 1+95L Basalt Rock Old Government Rd P6 1+10L Basalt Rock Old Government Rd

Keaau-Pahoa 17+90R Basalt Rock P8 19+70R Basalt Rock Keaau-Pahoa 13+90L Basalt Rock Keaau-Pahoa P10 15+50L Basalt Rock Keaau-Pahoa *16+50E* P11 Keaau-Pahoa 16+32 Fill P12 17+70L Keaau-Pahoa P13 Keaau-Pahoa 18+30L Fill

20+10L

*Note:

Embedment Material and Lengths of Shafts will still need to be verified in the field. Should differing Material be encountered, Drilled Shaft Lengths may need to be adjusted per direction from the Geotechnical Engineer.



LICENSE EXPIRES 4/30/17 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Typical Section Keaau-Pahoa Road Intersection

Improvements at Old Government Road Federal-Aid Project No. HSIP-0130(031 Scale: As Noted Date: August 2013

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

Fill

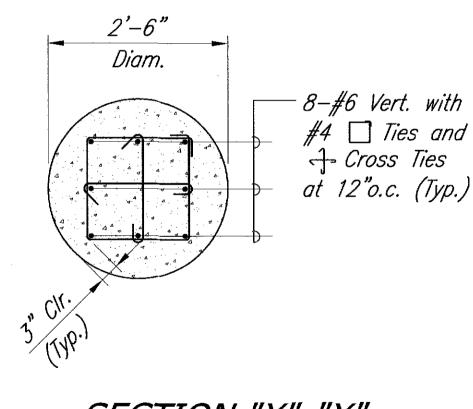
SHEET No. S-2 OF 2 SHEETS

FOUNDATION NOTES:

5-2

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

- 1. At Contractor's option a 2'-6" square cast-in-place or precast foundation may be substituted in lieu of the 2'-6" diameter round augered concrete foundation. However, either CLSM or properly compacted granular structural backfill shall be placed in the annular space between the excavation and the concrete foundation. Only CLSM will be allowed at the shallower embedded footings that will be socketed into the basalt subgrade material. Either material will be allowed in the compacted fill areas.
- 2. All concrete used for foundation shall have a minimum 28-day compressive strength of 4,500 psi.
- 3. If foundations are precast, manufacturer and materials supplier shall provide all work in compliance with the most current edition of the Hawaii Standard Specifications for Road, Bridge and Public Works Construction and, where applicable, the National Precast Concrete Association.
- 4. Each foundation shall not be handled or transported until at least 80% of the 28-day compressive strength has been reached.
- 5. Each foundation shall not be installed until the 28-day compressive strength has been reached.



SECTION "X"-"X" $SCALE: \frac{3}{4}" = 1'-0"$

LEGEND FOR

Double line for · 100.00 · Roadway Text for as-built

AS-BUILT POSTINGS

Squiggly line for as-built deletion as-built deletion posting

STREET LIGHT POLE FOUNDATION DETAIL SCALE: 1/2" = 1'-0"

−*3" Clr*.

(Typ.)

2'-6"

Diam.

Slope All Edges -

Sidewalk (Where

(4 Sides)

Applicable)

6'-0" (If

in Fill)

4'-0" (If

Embedded

5-2

in Basalt

Rock)

Embedded

80

"AS-BUILT"