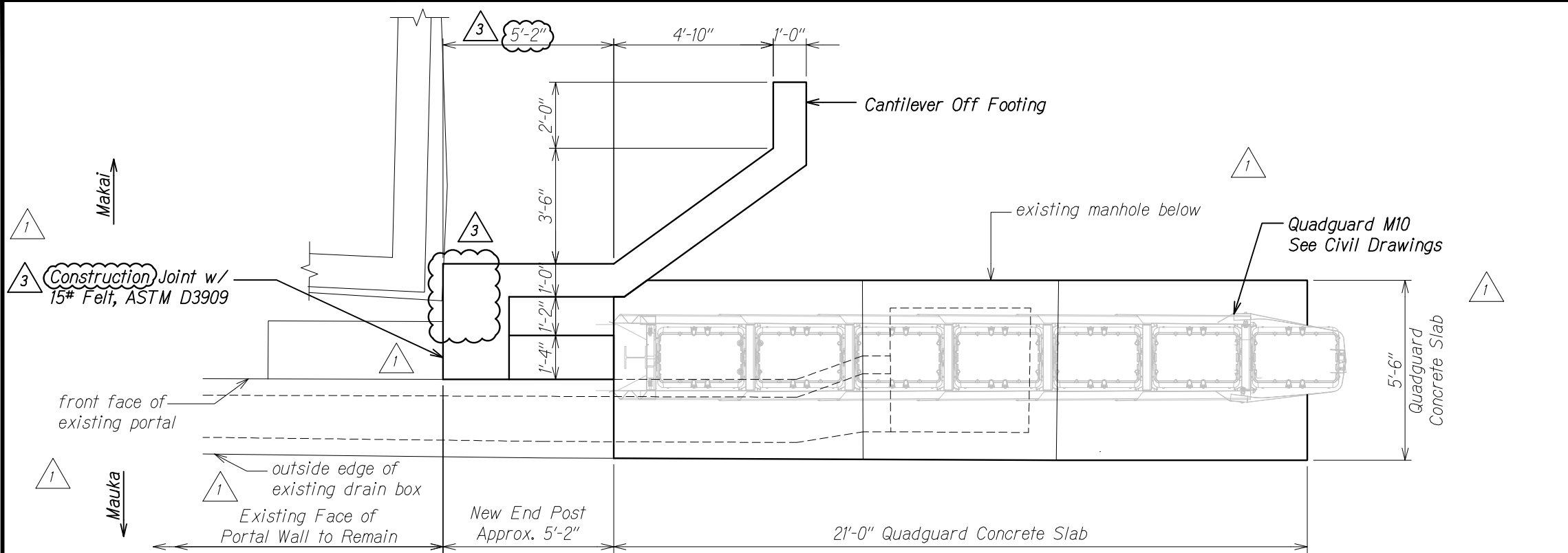
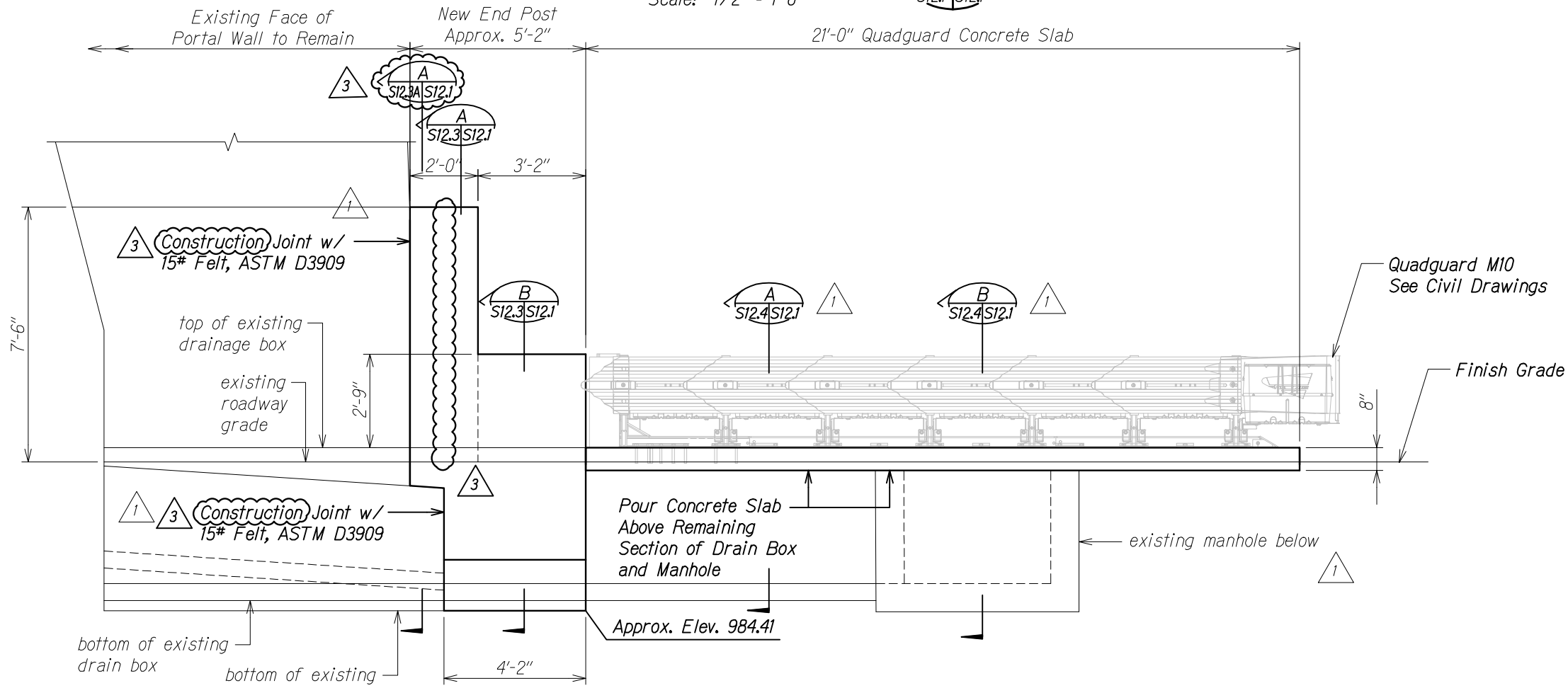




FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-22(002)	2019	ADD 78	94



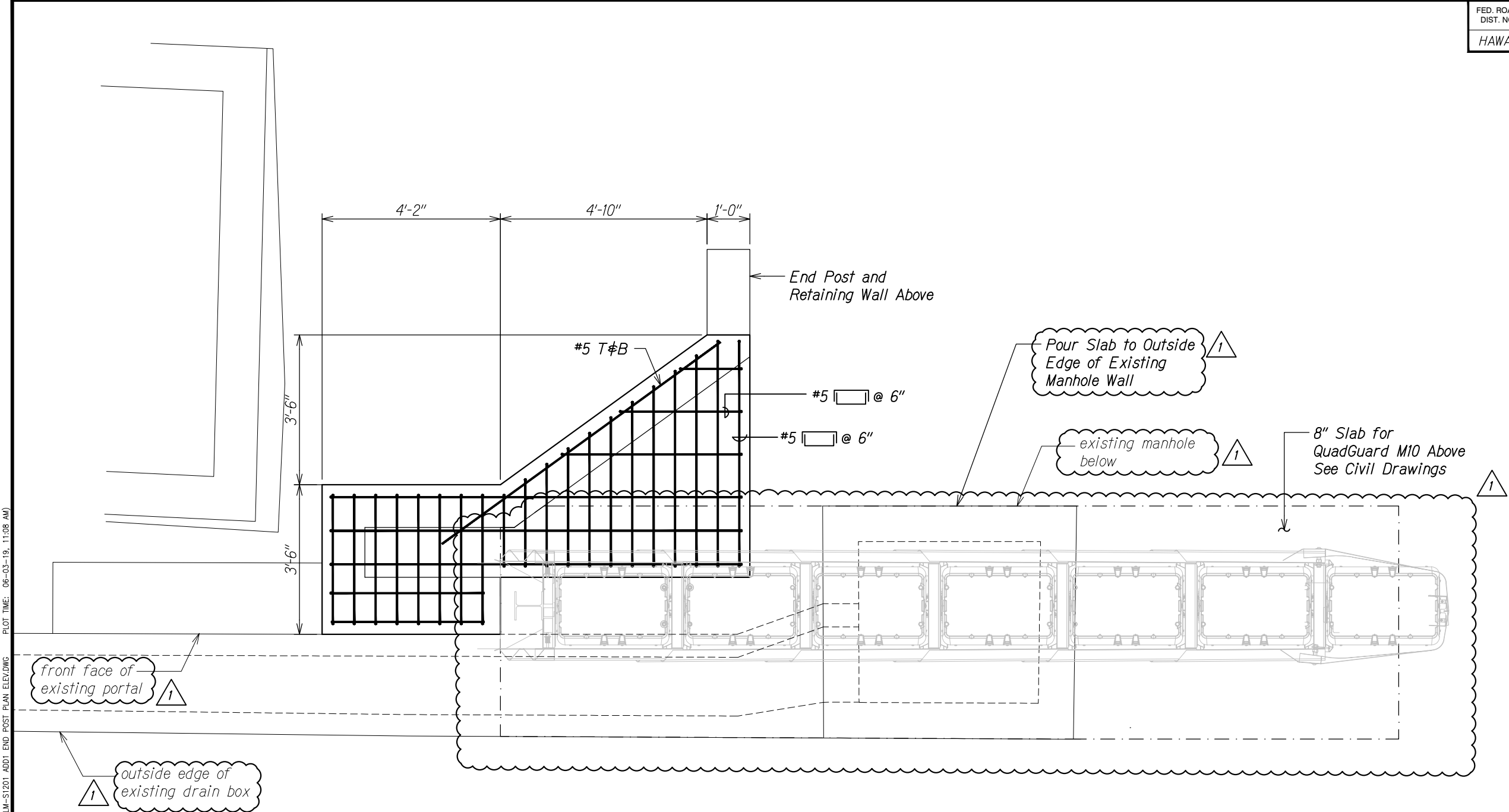
END POST PLAN
Scale: 1/2" = 1'-0"
A
S12.1 S12.1



END POST ELEVATION
Scale: 1/2" = 1'-0"
B
S12.1 S12.1

6/12/19	 3	Reference RFI 005
5/24/19	 1	Revised Plan & Elevation
DATE	REVISION	
<p>STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION</p> <p><u>MAKAI END POST</u> <u>PLAN AND ELEVATION</u> <u>PALI HIGHWAY</u> <u>LANDSLIDE MITIGATION PROJECT</u> <u>FAP Proj. No. ER-22(002)</u></p> <p>Scale: As Noted Date: May 6, 2019</p> <p>SHEET No. <i>S12.1</i> OF 3 SHEETS</p>		

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-22(002)	2019	ADD 79	94



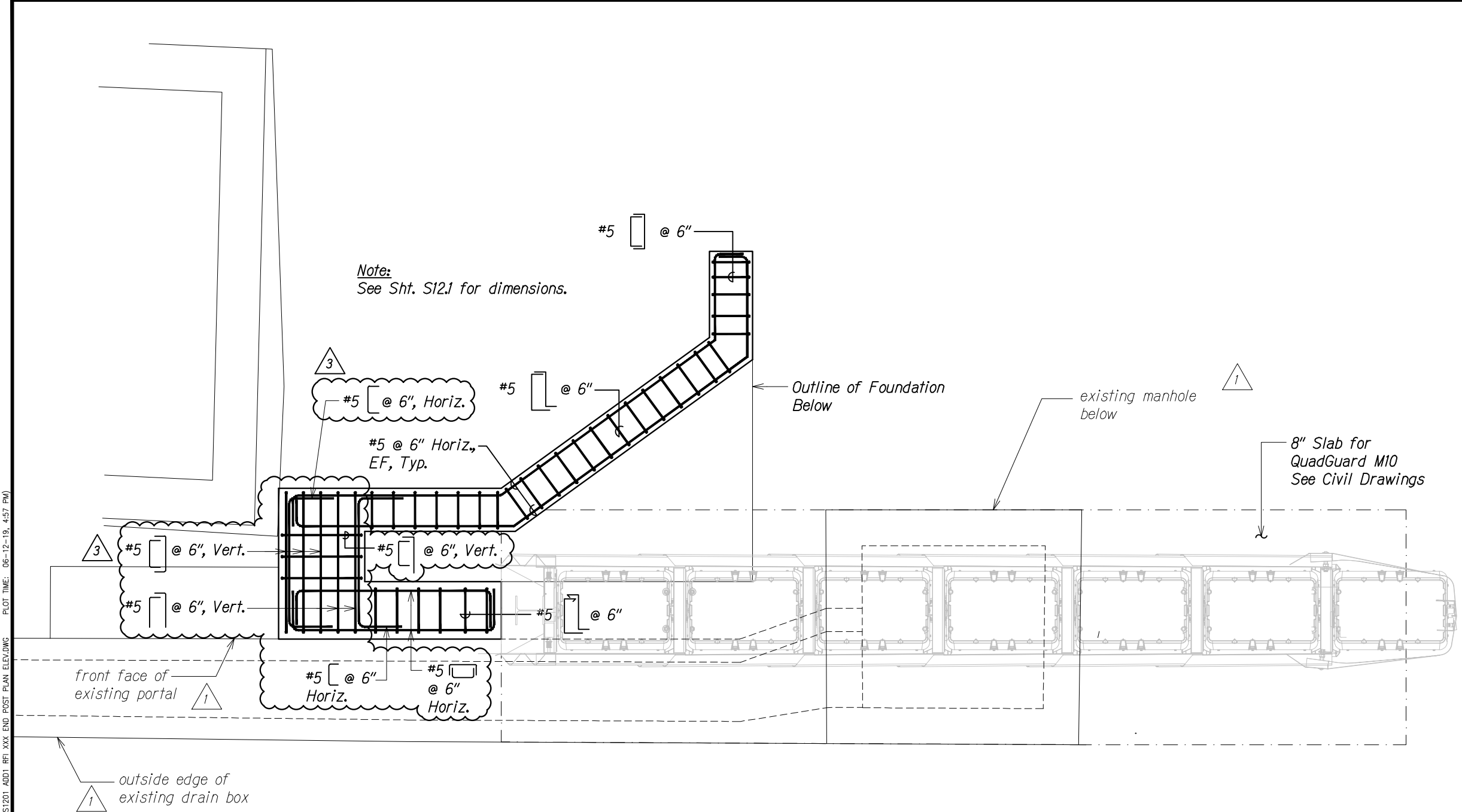
**MAKAI END POST AND RETAINING WALL
FOUNDATION REINFORCING LAYOUT PLAN**
Scale: 3/4" = 1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

DRAWING NAME: Z:\00 ONGOING\19-014.1 PALI ROOF SHED-WSP TMA\01 CAD\05-24-19 PH 2\PLM-S1201 ADD1 END POST PLAN ELEVING PLOT TIME: 06-03-19, 11:08 AM

5/24/19	1 Revised Plan
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION MAKAI END POST REINFORCING LAYOUT PLAN PALI HIGHWAY LANDSLIDE MITIGATION PROJECT FAP Proj. No. ER-22(002) Scale: As Noted Date: May 6, 2019 SHEET No. S12.2 OF 3 SHEETS	

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-22(002)	2019	ADD 79S-1	94

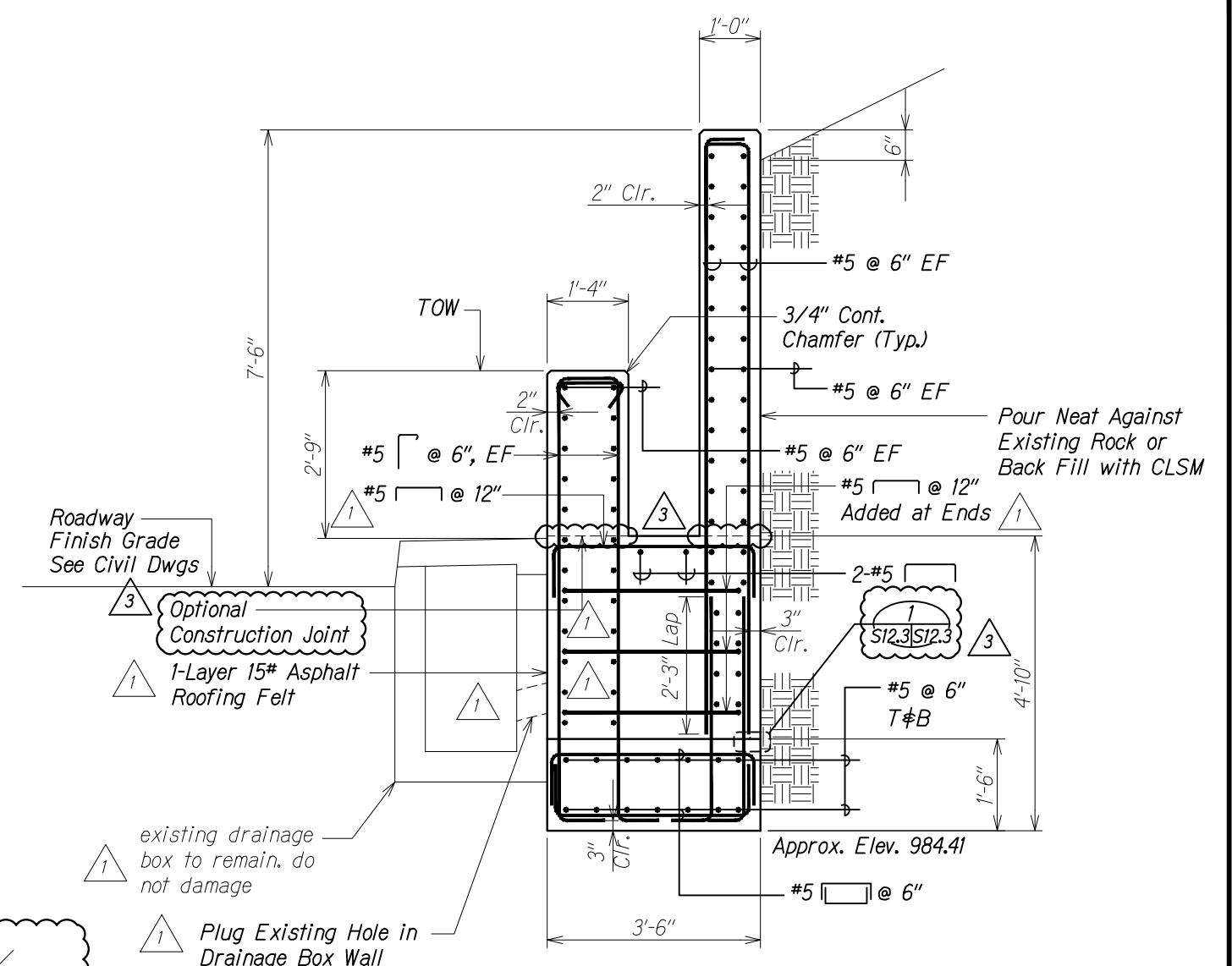
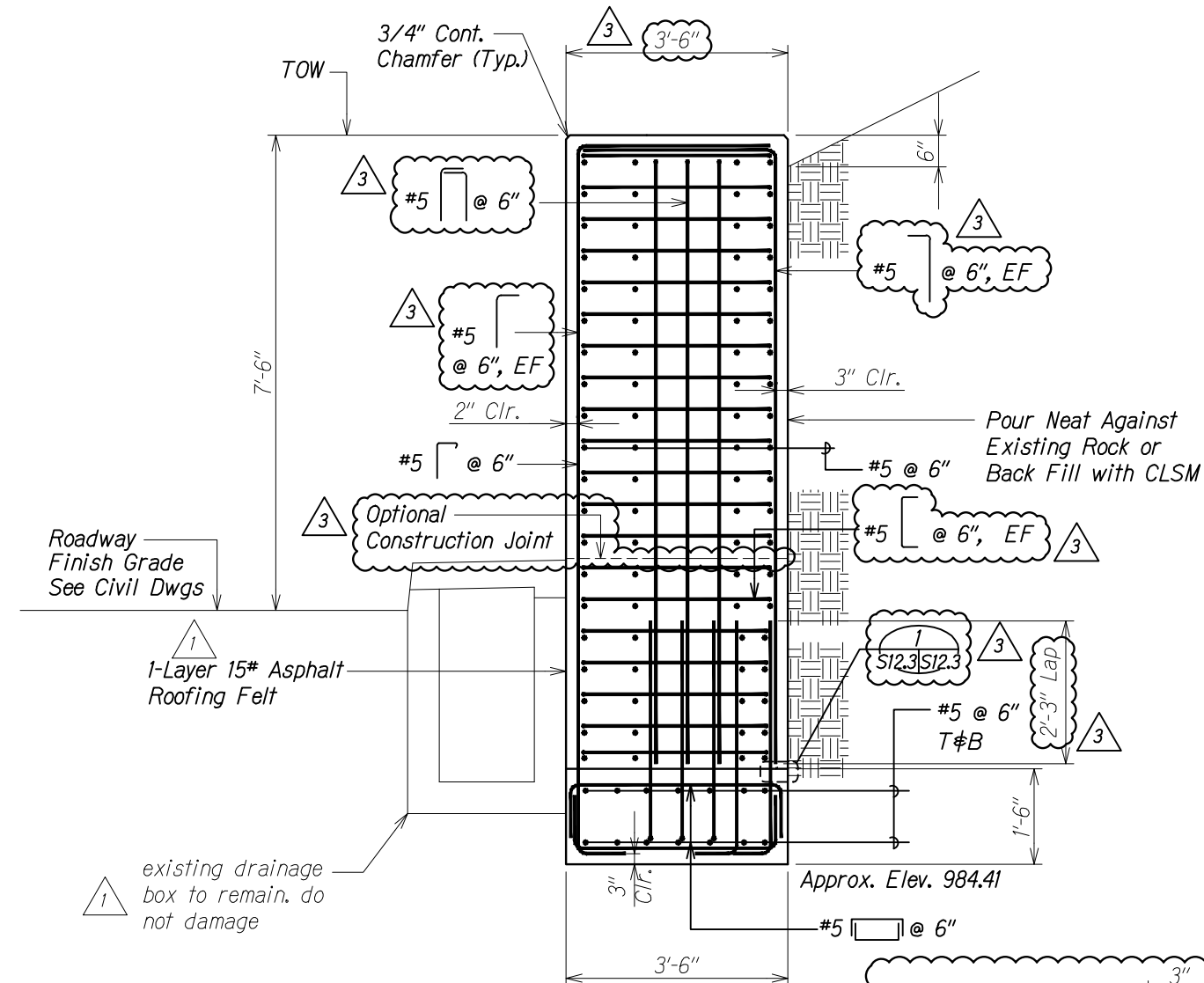


MAKAI END POST AND RETAINING WALL REINFORCING LAYOUT PLAN
Scale: 3/4" = 1'-0"

ORIGINAL PLAN	DATE
NO. 1	
DESIGNED BY	
CHECKED BY	
DATE	

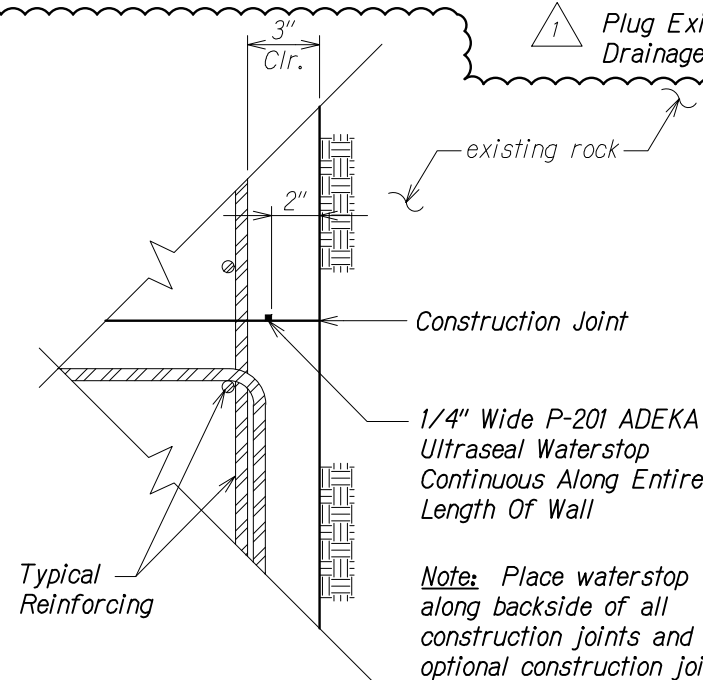
6/12/19	3 Reference RFI 005
5/24/19	1 New Sheet
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION MAKAI END POST REINFORCING LAYOUT PLAN PALI HIGHWAY LANDSLIDE MITIGATION PROJECT FAP Proj. No. ER-22(002) Scale: As Noted Date: May 6, 2019 SHEET No. S12.2A OF 3 SHEETS	

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-22(002)	2019	ADD 80	94



SECTION

Scale: $3/4" = 1'-0"$





WATERSTOP DETAIL

Scale: 3" = 1'-0"

3

SECTION

Scale: $3/4'' = 1'-0''$

6/12/19	 <i>Reference RFI 005</i>
5/24/19	 <i>Revised Callouts and Section</i>
DATE	REVISION

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

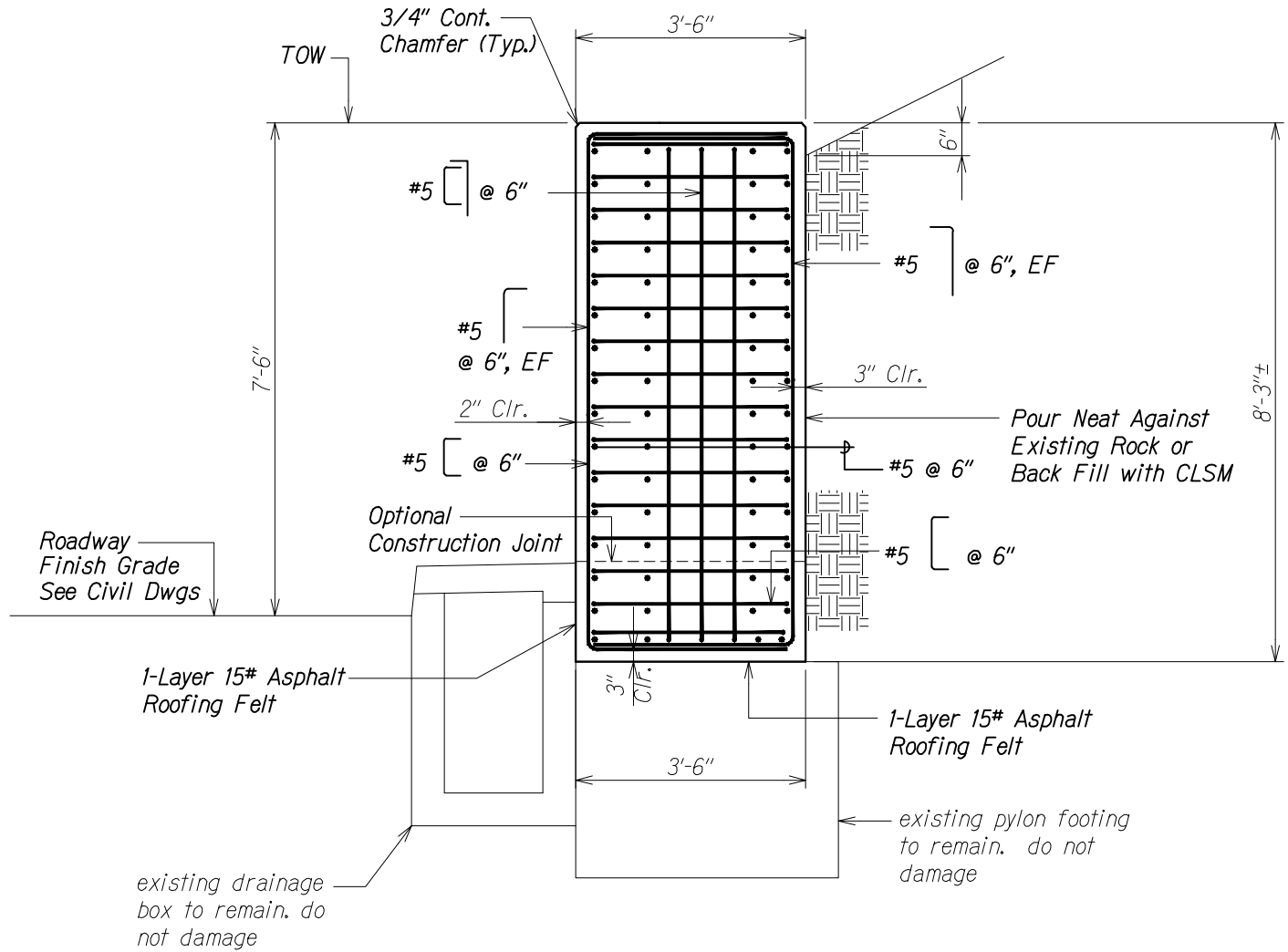
MAKAI END POST
SECTIONS
PALI HIGHWAY
LANDSLIDE MITIGATION PROJECT
FAP Proj. No. ER-22(002)

Scale: As Noted *Date: May 6, 2019*

SHEET No. *S12.3* OF 3 SHEETS



DRAWING NAME: Z:\00 ONGOING\19-014.1 PALI ROOF SHED-WSP TM\01 CAD\06-12-19 RFI\PLM-S1201 ADD1 RFI XXX END POST PLAN ELEV.DWG PLOT TIME: 06-12-19, 4:58 PM)

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-22(002)	2019	ADD 80S-1A	94



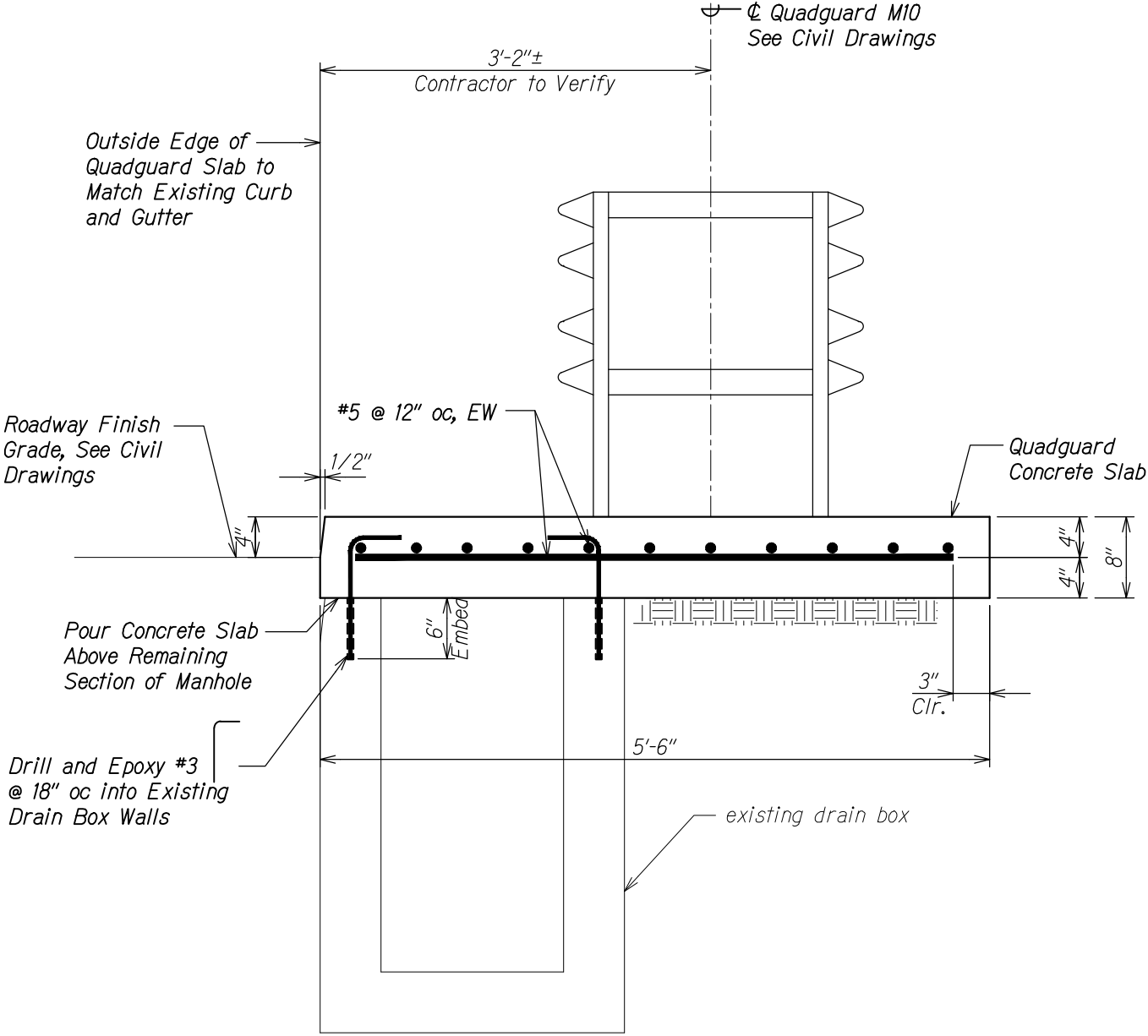
SECTION
Scale: 3/4" = 1'-0"
A
S12.1 S12.3A

ORIGINAL PLAN	DATE
NO. BOOK	DESIGNED BY
NO.	CHECKED BY

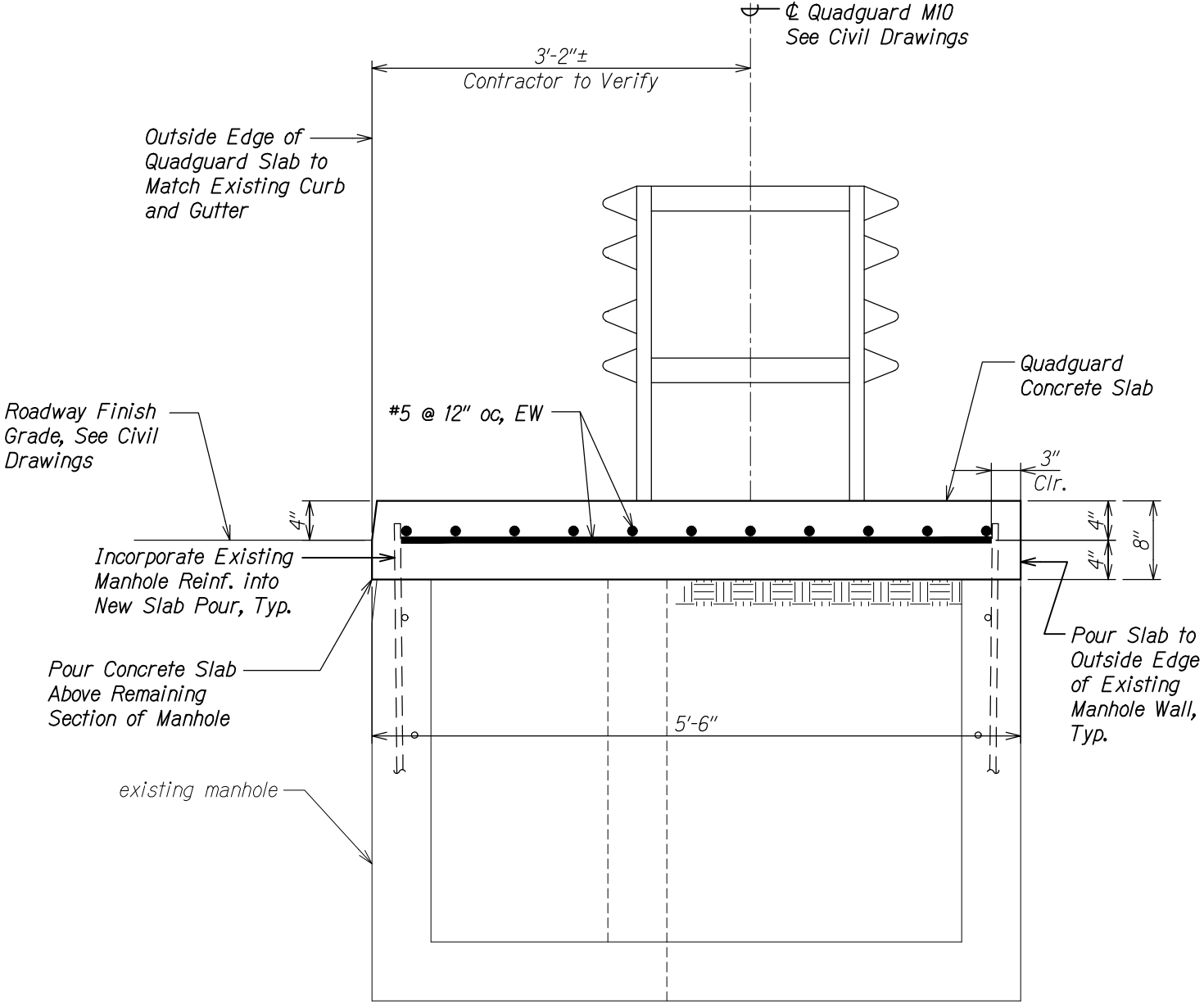
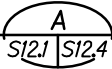
6/12/19		Reference RFI 005 - New Sheet
5/24/19		Revised Callouts and Section
DATE	REVISION	
<p>STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION</p> <p><u>MAKAI END POST</u> <u>SECTION</u> <u>PALI HIGHWAY</u> <u>LANDSLIDE MITIGATION PROJECT</u> <u>FAP Proj. No. ER-22(002)</u></p> <p>Scale: As Noted Date: May 6, 2019</p> <p>SHEET No. S12.3A OF 3 SHEETS</p>		

ADD 80S-1A

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-22(002)	2019	ADD 80S-1	94



SECTION
Scale: 1 1/2" = 1'-0"



SECTION
Scale: 1 1/2" = 1'-0"

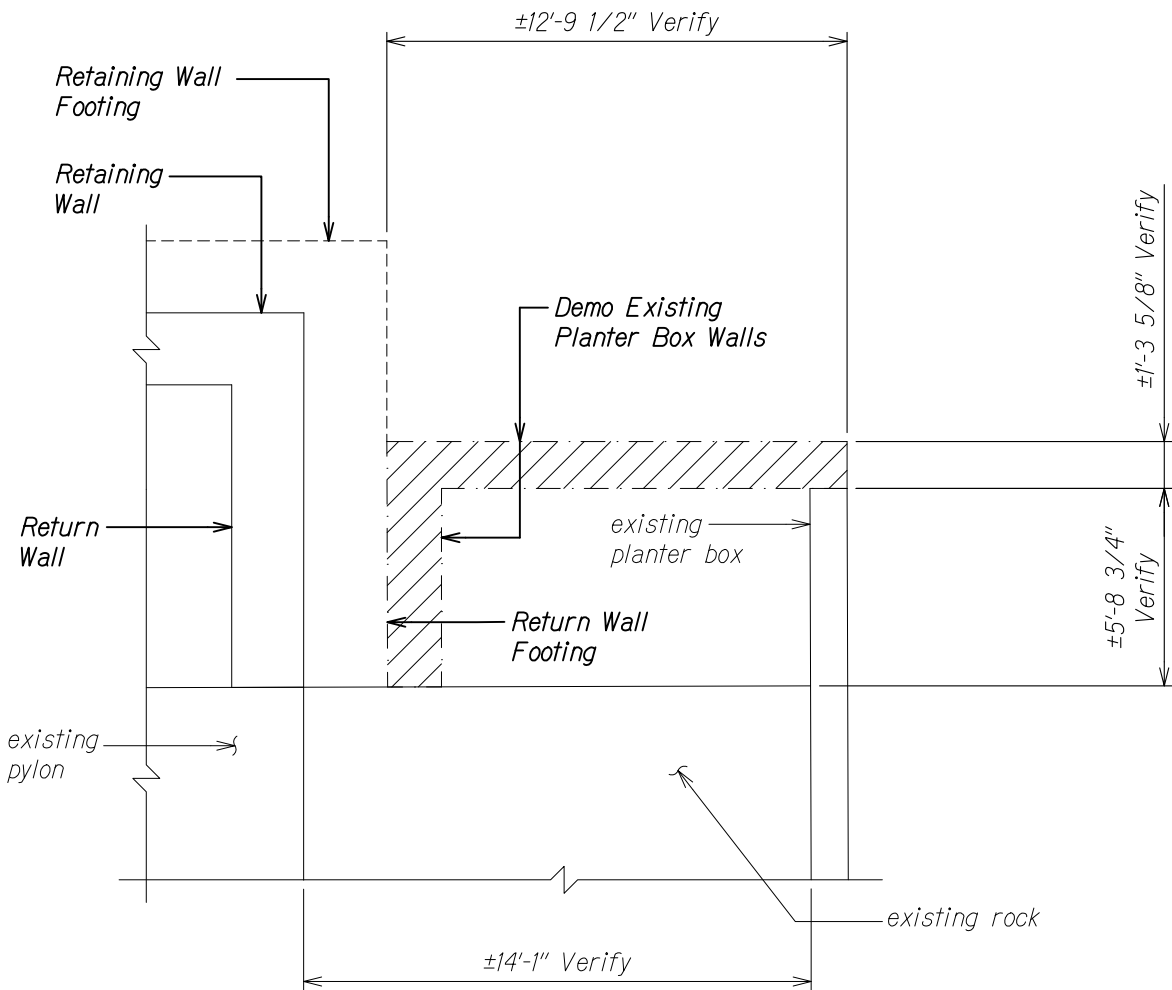
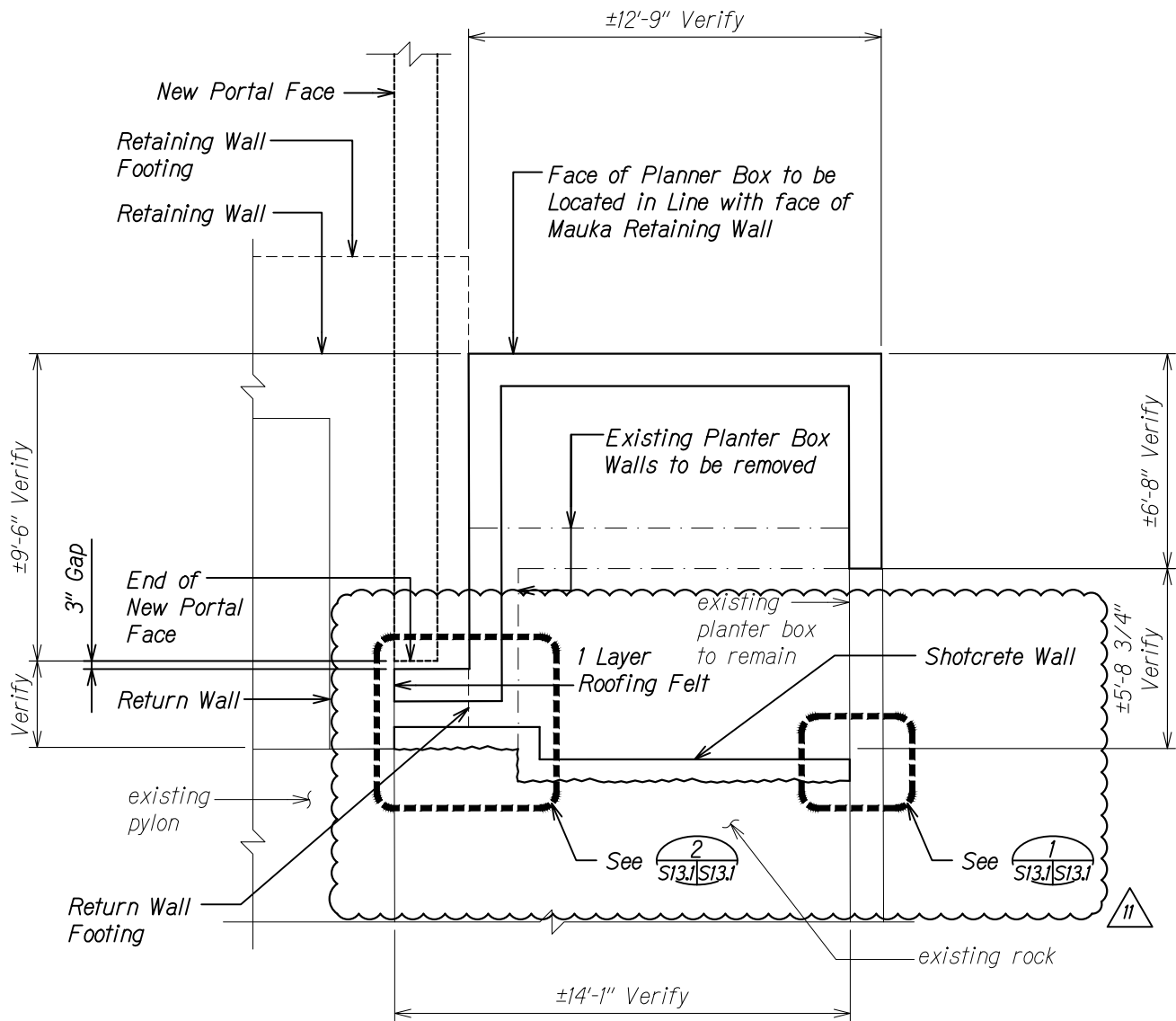


5/24/19	1 New Sheet
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION MAKAI END POST SECTION PALI HIGHWAY LANDSLIDE MITIGATION PROJECT FAP Proj. No. ER-22(002) Scale: As Noted Date: May 6, 2019 SHEET No. S12.4 OF 3 SHEETS	

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

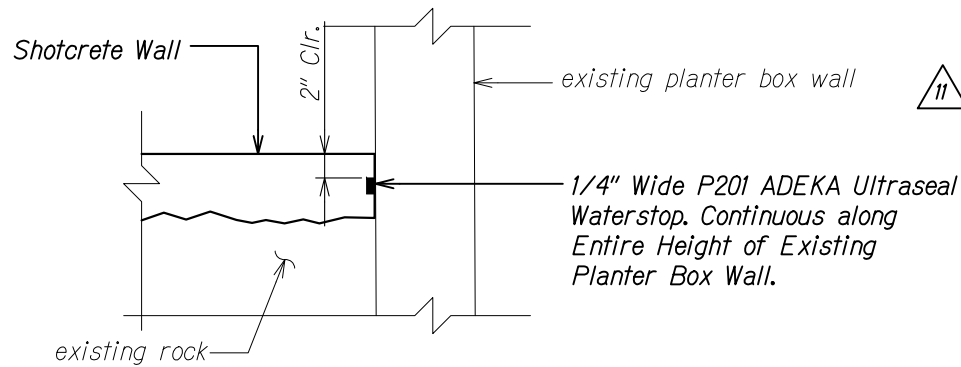
DRAWING NAME: Z:\00 ONGOING\19-014.1 PALI ROOF SHED-WSP TIA 01 CAD\05-24-19 PH 2\PLM-S1201 ADD1 END POST PLAN ELEVING PLOT TIME: 06-03-19, 11:12 AM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-22(002)	2019	80S-2	94



PLANTER BOX PLAN

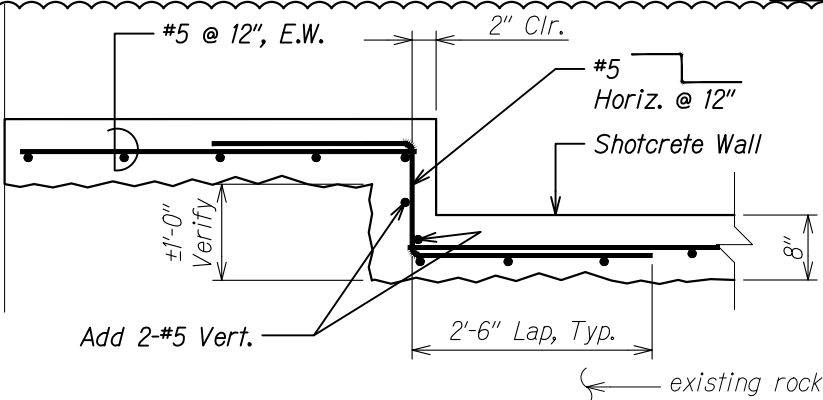
Scale: 3/8" = 1'-0"



DETAIL 1
Scale: 1" = 1'-0"

PLANTER BOX DEMO PLAN

Scale: 3/8" = 1'-0"



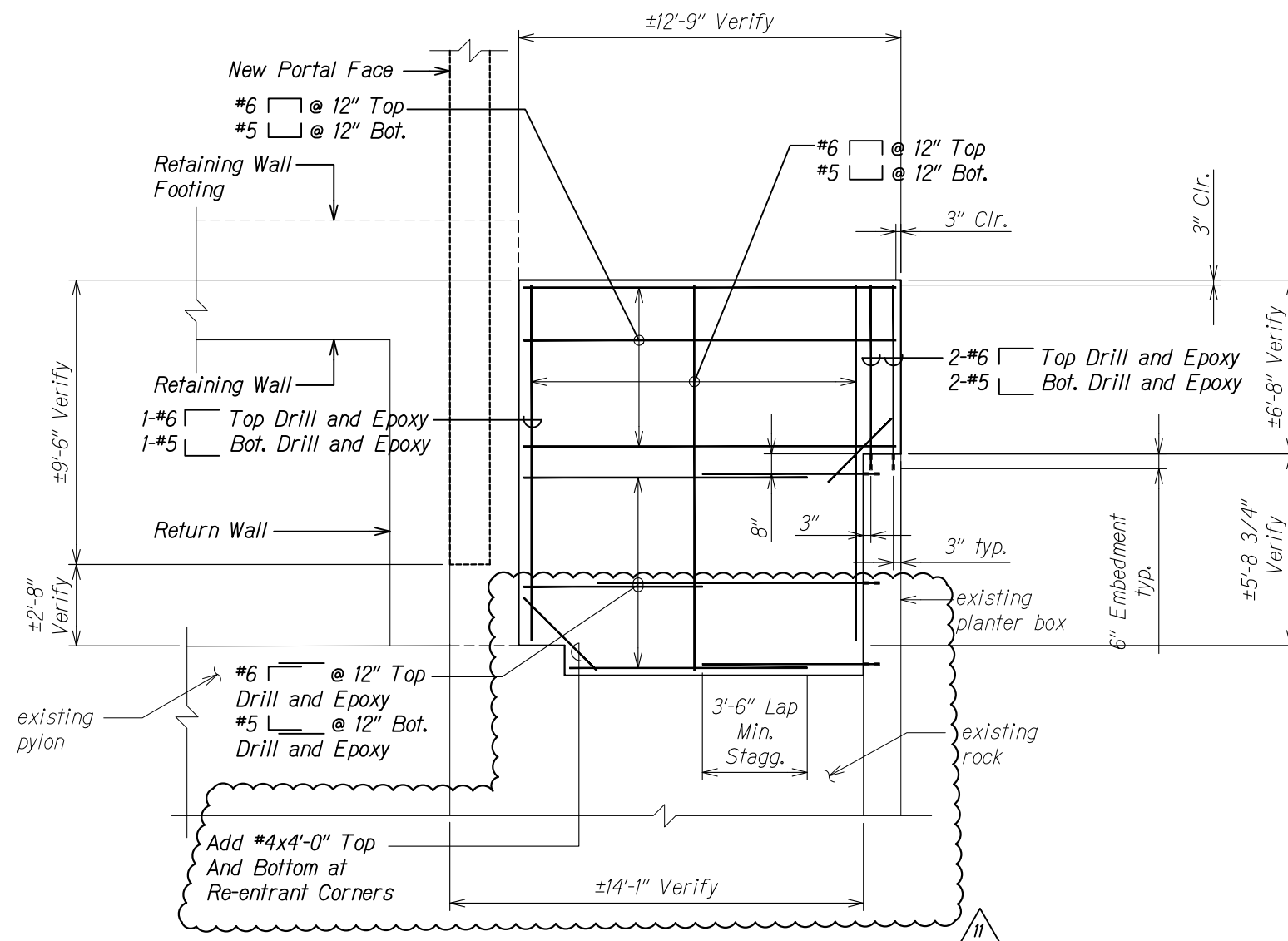
DETAIL 2
Scale: 1" = 1'-0"

9

DATE	REVISION
11/15/19	11 Revised shotcrete wall
11/04/19	9 Revised shotcrete wall
10/04/19	8 New Sheet




STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**PLANTER BOX LAYOUT
AND DEMO PLAN**
PALI HIGHWAY
LANDSLIDE MITIGATION PROJECT
FAP Proj. No. ER-22(002)
Scale: As Noted Date: May 6, 2019
SHEET No. S13.1 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-22(002)	2019	80S-3	94



PLANTER BOX
BOTTOM SLAB REINFORCING PLAN

Scale: 3/8" = 1'-0"

11/15/19	 Revised Bot. Slab Reinf.
11/04/19	 Revised shotcrete wall
10/04/19	 New Sheet
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLANTER BOX BOTTOM SLAB
REINFORCING PLAN

PALI HIGHWAY
LANDSLIDE MITIGATION PROJECT
FAP Proj. No. ER-22(002)

Scale: As Noted Date: May 6, 2019

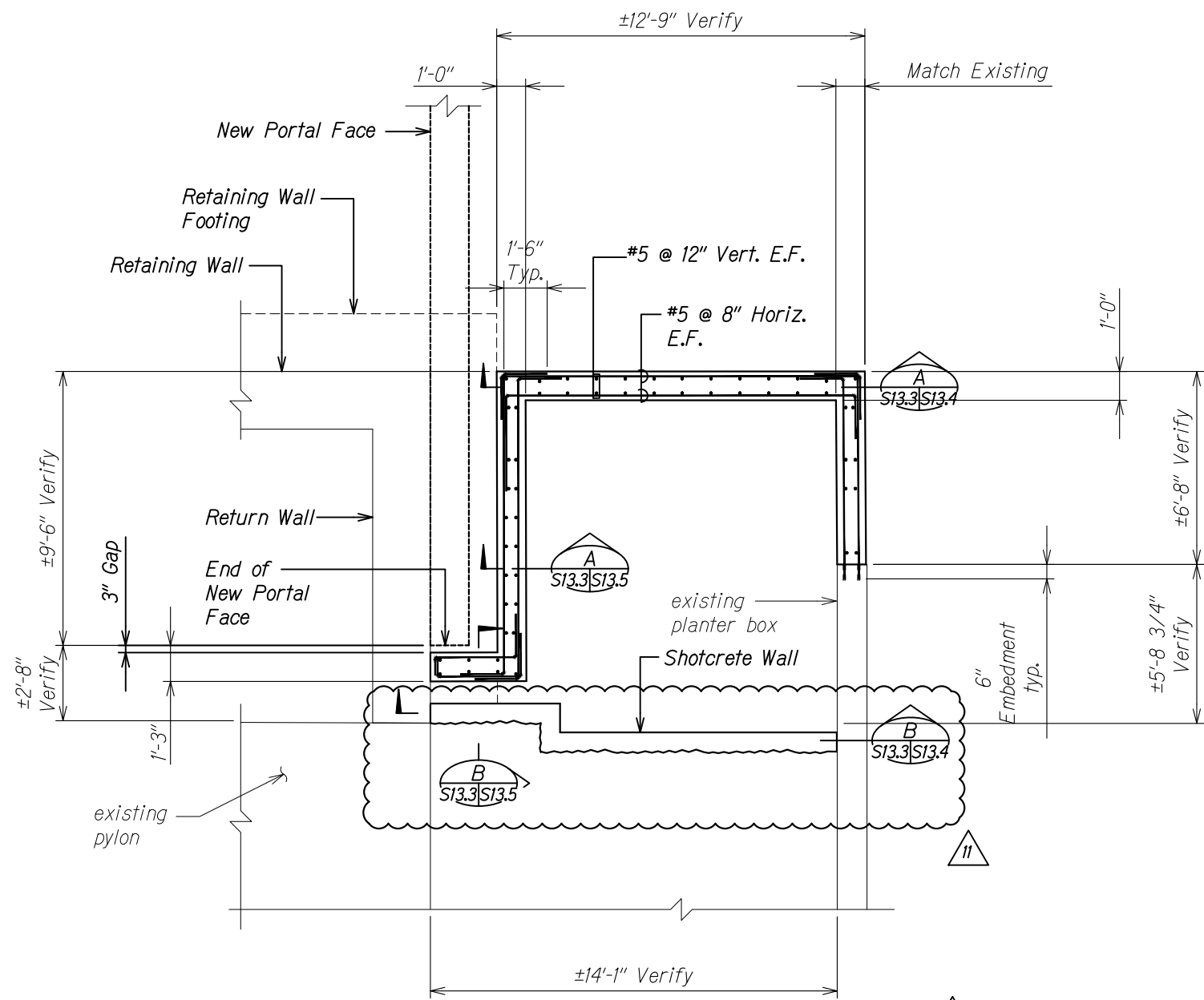
SHEET No. *S13.2* OF *5* SHEETS

80S-3

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

DRAWING NAME: Z:\00 ONGOING\19-014.1A PALI ROOF SHED POST DESIGN-WSP TM\01 CAD\04-06-20B RF123 RYSD REBAR\PLM-S1301 PLANter DELTA8 DELTA9 DELTA11.DWG PLOT TIME: 07-02-20, 11:41 AM)

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-22(002)	2019	80S-4	94



PLANTER BOX
WALL REINFORCING PLAN
Scale: 3/8" = 1'-0"

DATE	REVISION
11/15/19	11 Revised shotcrete wall
11/04/19	9 Revised shotcrete wall
10/04/19	8 New Sheet

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLANTER BOX WALL
REINFORCING PLAN

PALI HIGHWAY
LANDSLIDE MITIGATION PROJECT
FAP Proj. No. ER-22(002)

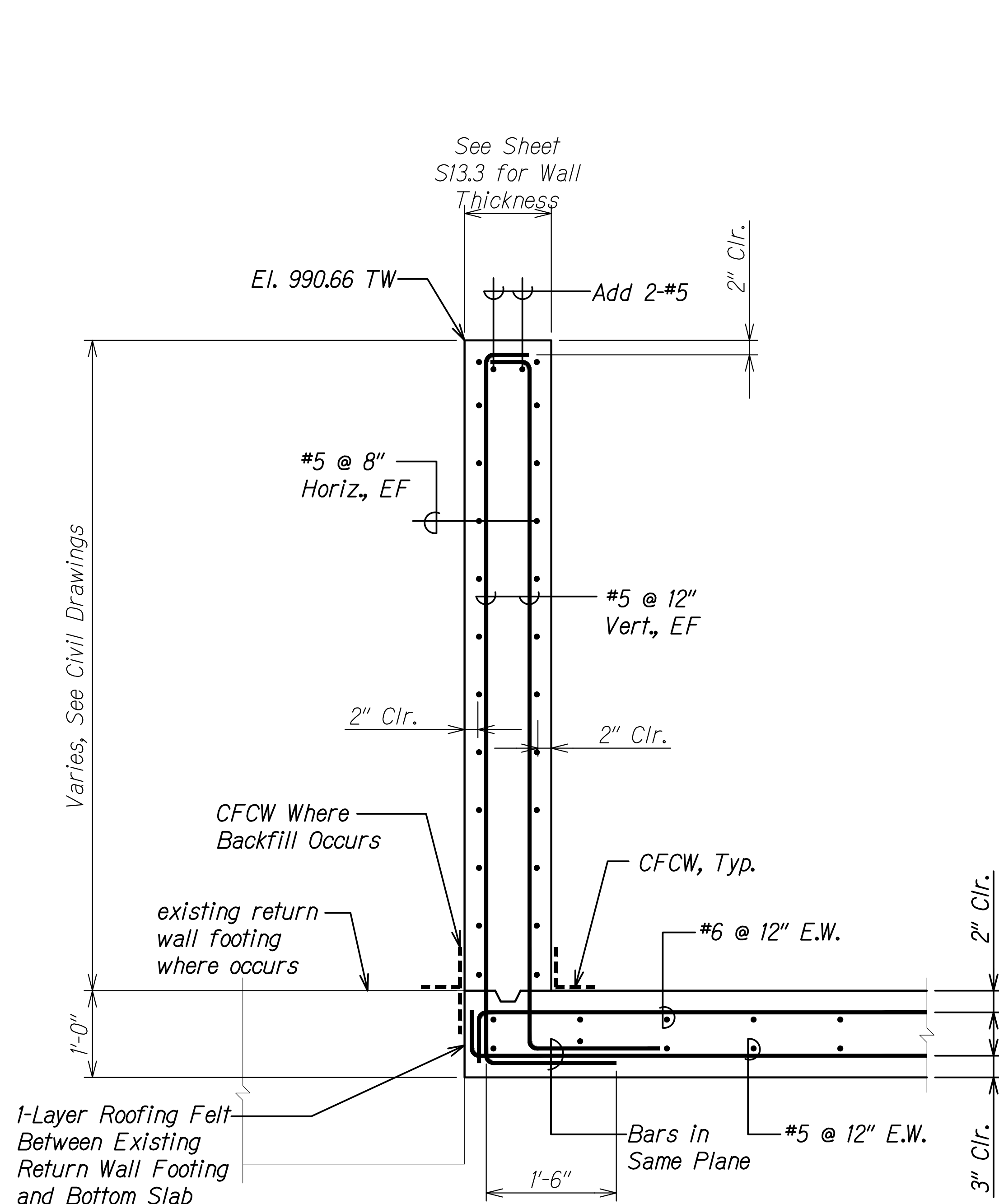
Scale: As Noted Date: May 6, 2019

SHEET No. S13.3 OF 5 SHEETS

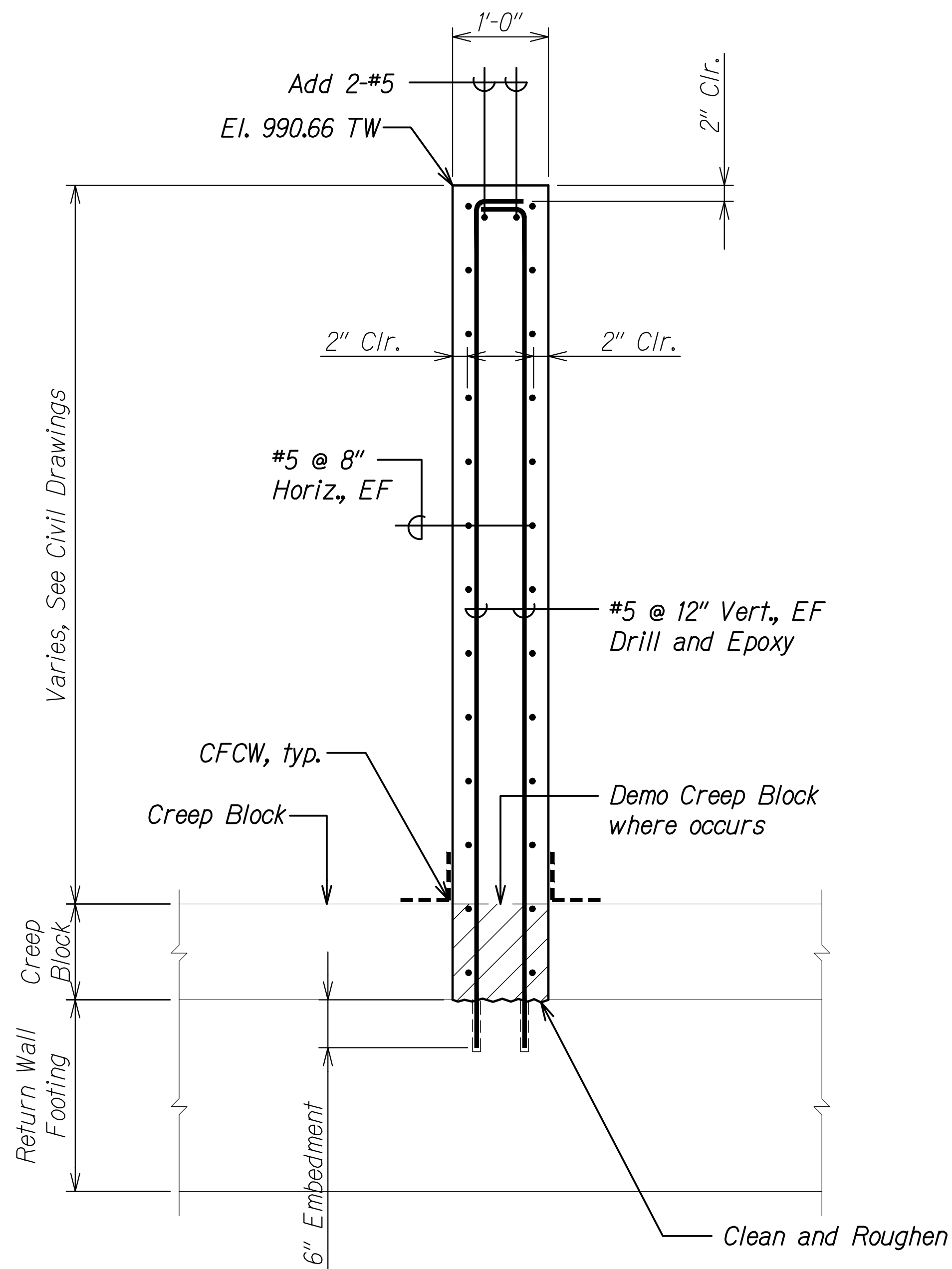
ORIGINAL PLAN	DATE
NOTE BOOK	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

DRAWING NAME: Z:\00 ONGOING\19-014\A PALI ROOF SHED POST DESIGN-WSP TMA\01 CAD\04-06-20B RF23 RVSD REBAR\PLM-S1301 PLANTER DEL\A8 DEL\A9 DEL\A11.DWG PLOT TIME: 07-02-20, 11:41 AM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-22(002)	2019	80S-6	94



SECTION A
Scale: 1" = 1'-0"
S13.3 S13.5



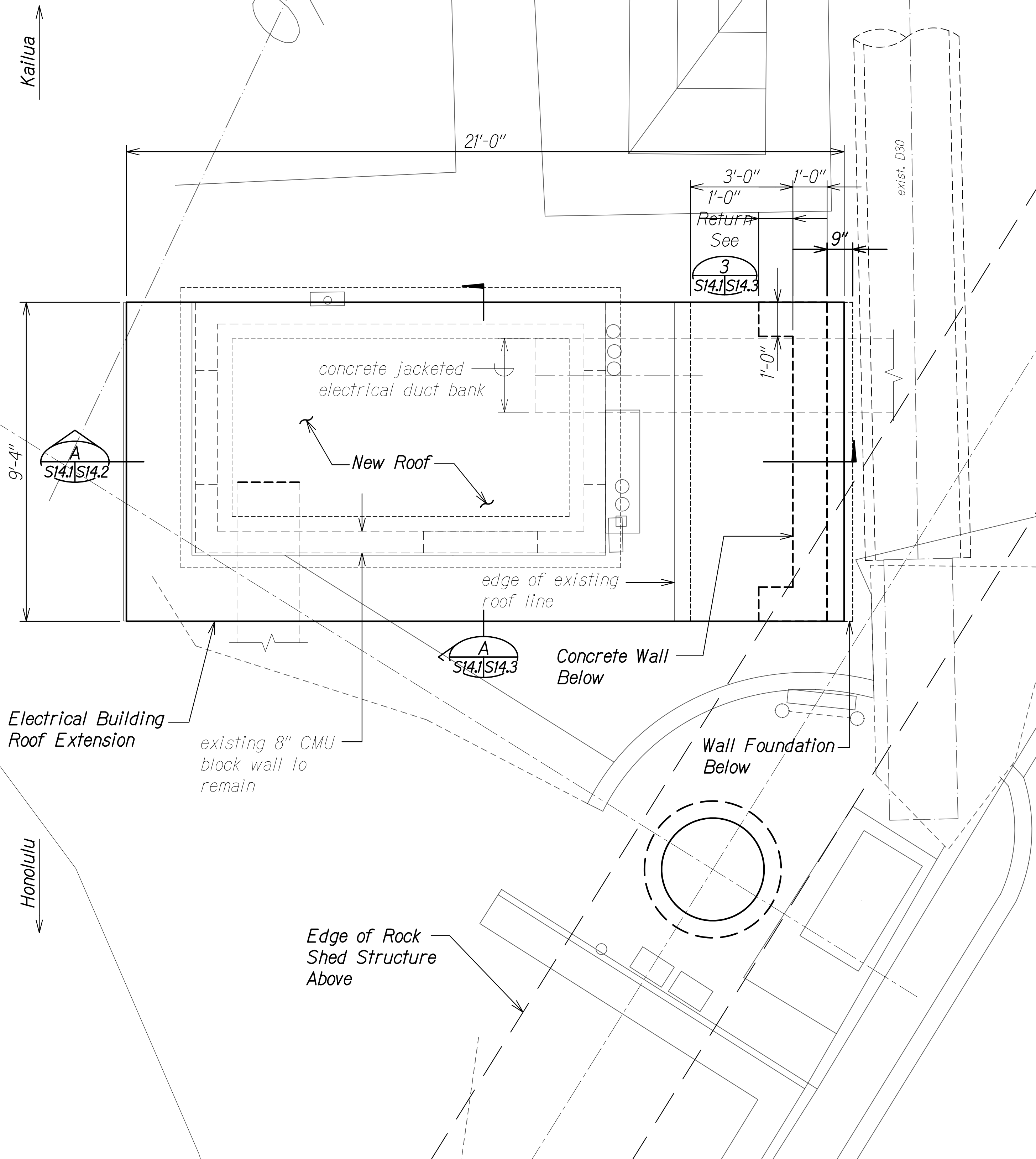
SECTION B
Scale: 1" = 1'-0"
S13.3 S13.5

10/04/19	8 New Sheet
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
PLANTER BOX SECTIONS	
PALI HIGHWAY LANDSLIDE MITIGATION PROJECT FAP Proj. No. ER-22(002)	
Scale: As Noted	Date: May 6, 2019
SHEET No. S13.5 OF 5 SHEETS	

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-22(002)	2019	80S-7	94

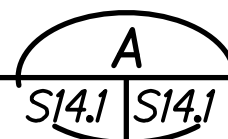
DRAWING NAME: Z:\00 ONGOING\19-014.1A PALI ROOF SHED POST DESIGN-WSP.TIA\01 CAD\07-14-20 REV SHT NO. ELEC.BLD\PLAN-S1401-ELEC BLDG EXTNSN PLAN DELA8.DWG PLOT TIME: 07-14-20, 10:48 AM

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



ELECTRICAL BUILDING LAYOUT PLAN

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



10/4/19	8 New Sheet
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ELECTRICAL BUILDING
LAYOUT PLAN

PALI HIGHWAY
LANDSLIDE MITIGATION PROJECT
FAP Proj. No. ER-22(002)

Scale: As Noted Date: May 6, 2019

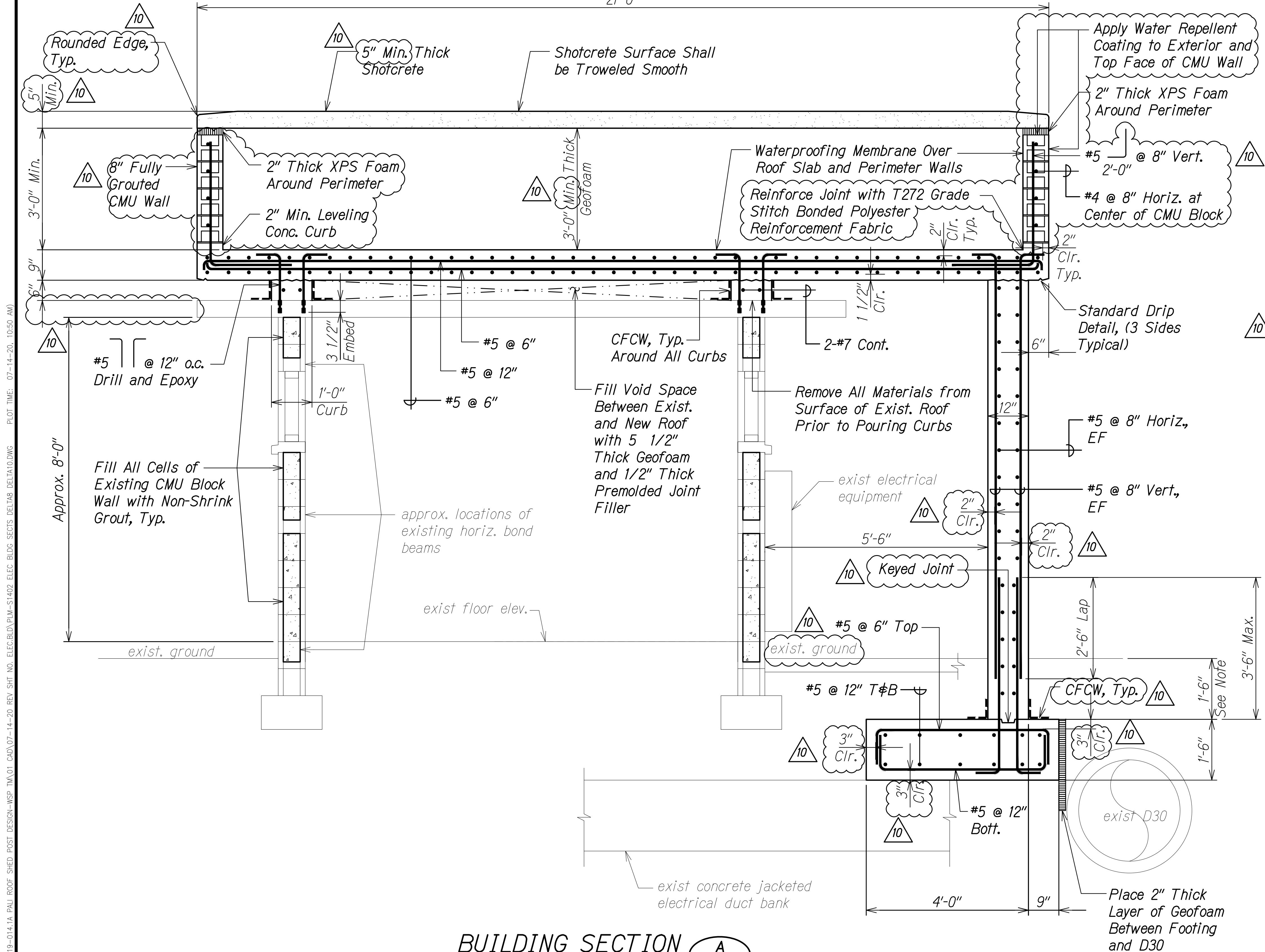
SHEET No. S14.1 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-22(002)	2019	80S-8	94

Notes:

- Contractor to field verify depth of exist. concrete jacketed electrical duct bank.
- Existing CMU walls of electrical building are partially grouted. All remaining ungrouted cells to be filled with high-performance non-shrink grout. Contractor to assume existing grouted blocks are located at horizontal bond beams and at 24" o.c. vertically.
- Locate access points in CMU such that entire vertical height of block, and between bond beams, are filled with grout.
- Non-shrink grout shall be Dayton Superior Sure-Grip.
- New CMU blocks shall comply with ASTM C90 and shall be high-strength with a minimum 28-day compressive strength of 3,750 psi.
- New CMU blocks shall be 8x8x16 Double Open End except at corners where 8x8x16 Corner Knock Out and 8x8x8 Knock Out Half are acceptable.
- Mortar shall comply with Type M, in accordance with ASTM C270 and have a minimum 28-day compressive strength of 2,500 psi.
- Joints shall be tooled with a concave shape.
- Grout shall comply with ASTM C476 and shall be a coarse type grout with a minimum 28-day compressive strength of 4,000 psi.
- Water repellant coating shall be Diedrich 303S Siloxseal.

DRAWING NAME: Z:\00 ONGOING\19-0141A PALI ROOF SHED POST DESIGN-WSP-TM\01 CAD\07-14-20-REV SHT NO. ELEC\BUD\PAL-S1402 ELEC BLDG SECT'S DELTA\0.DWG PLOT TIME: 07-14-20, 10:50 AM



BUILDING SECTION A
Scale: 3/4" = 1'-0"

DATE	REVISION
11/12/19	10 Replace Conc. Walls with CMU
10/4/19	8 New Sheet

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
ELECTRICAL BUILDING SECTION
PALI HIGHWAY LANDSLIDE MITIGATION PROJECT FAP Proj. No. ER-22(002)
Scale: As Noted Date: May 6, 2019
SHEET No. S142 OF 3 SHEETS

