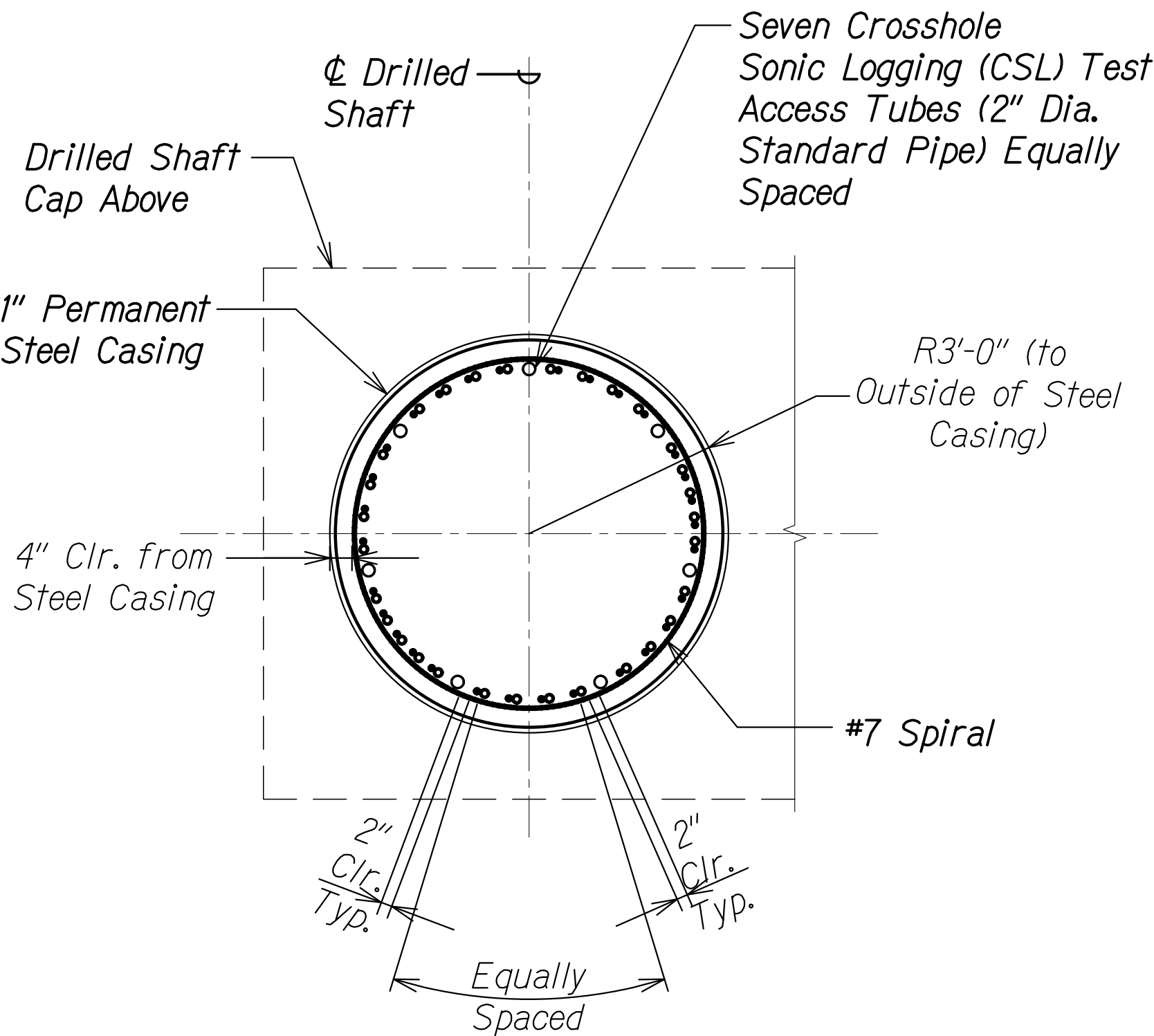


FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-23(001)	2021	ADD. 81	109

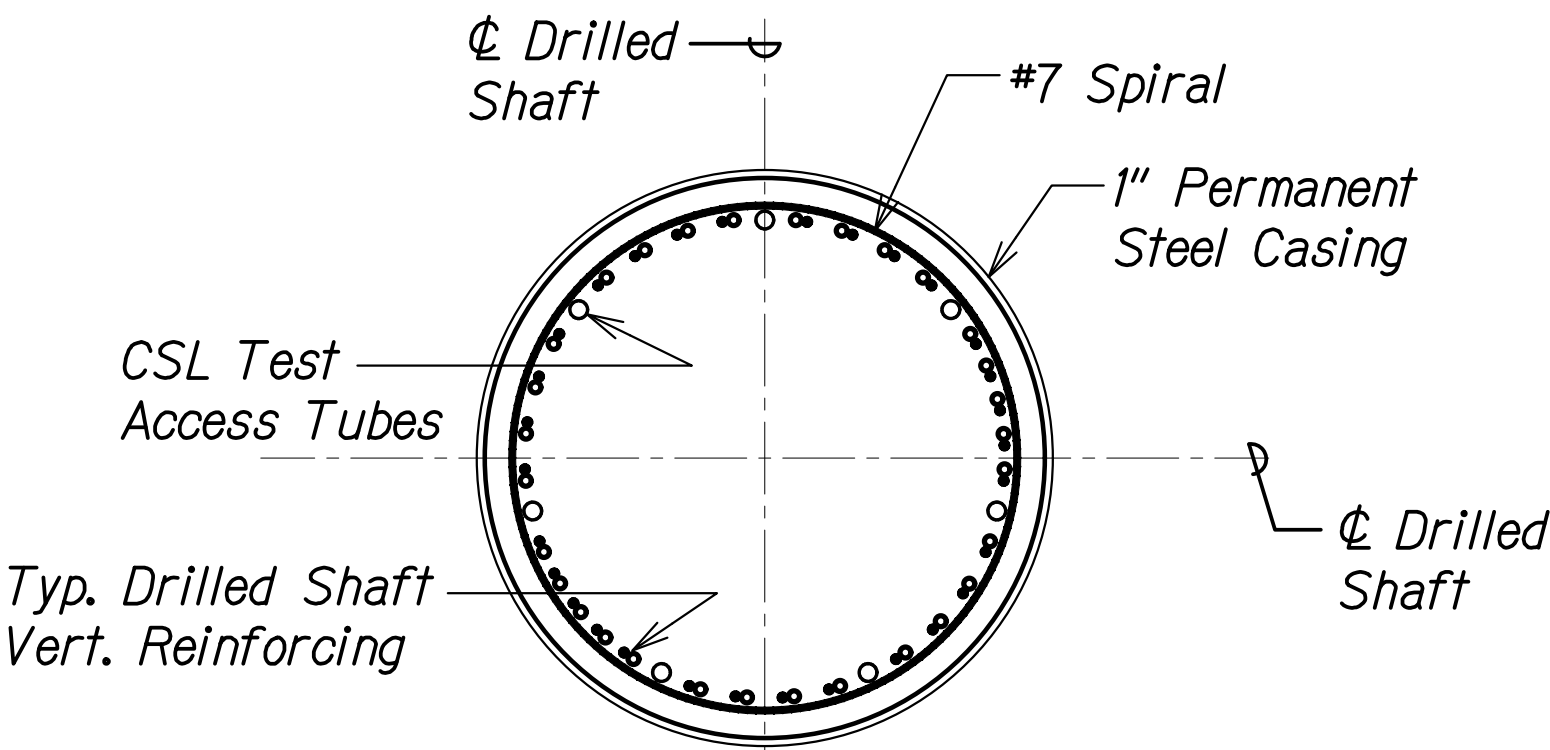
NOTES:

- Crosshole Sonic Logging (CSL) testing shall be performed on every drilled shaft. Shafts indicating irregular CSL readings may be subjected to additional testing.
- After CSL testing, a portion of the CSL test access tubes shall be removed to one inch above top of the drilled shaft elevation. Tubes shall be completely filled with non-shrink, non-metallic, cementitious grout of at least equal strength as drilled shaft prior to pouring the transition zone. See Specifications for additional grout requirements.
- Lap splice length for #11 vert. bar shall be 8'-0". No lap splices of vert. bars are allowed in the upper 35'-0" of the drilled shaft.
- Lapped splices shall have a minimum of 2'-0" vertically between splice points.
- Staggered splice points for longitudinal reinforcing shall not be more than 50% of the total at any section normal to the axis of the shaft.
- Lap splice length for #7 spirals shall be 4'-0" min. with a 135° hook bend at each end.
- Each end of the spiral shall have 1 1/2 extra turns with a 135° hook around a vertical reinforcing bar.
- Concrete or other non-corrosive spacing devices shall be used to maintain the reinforcement cage in position within the shaft.

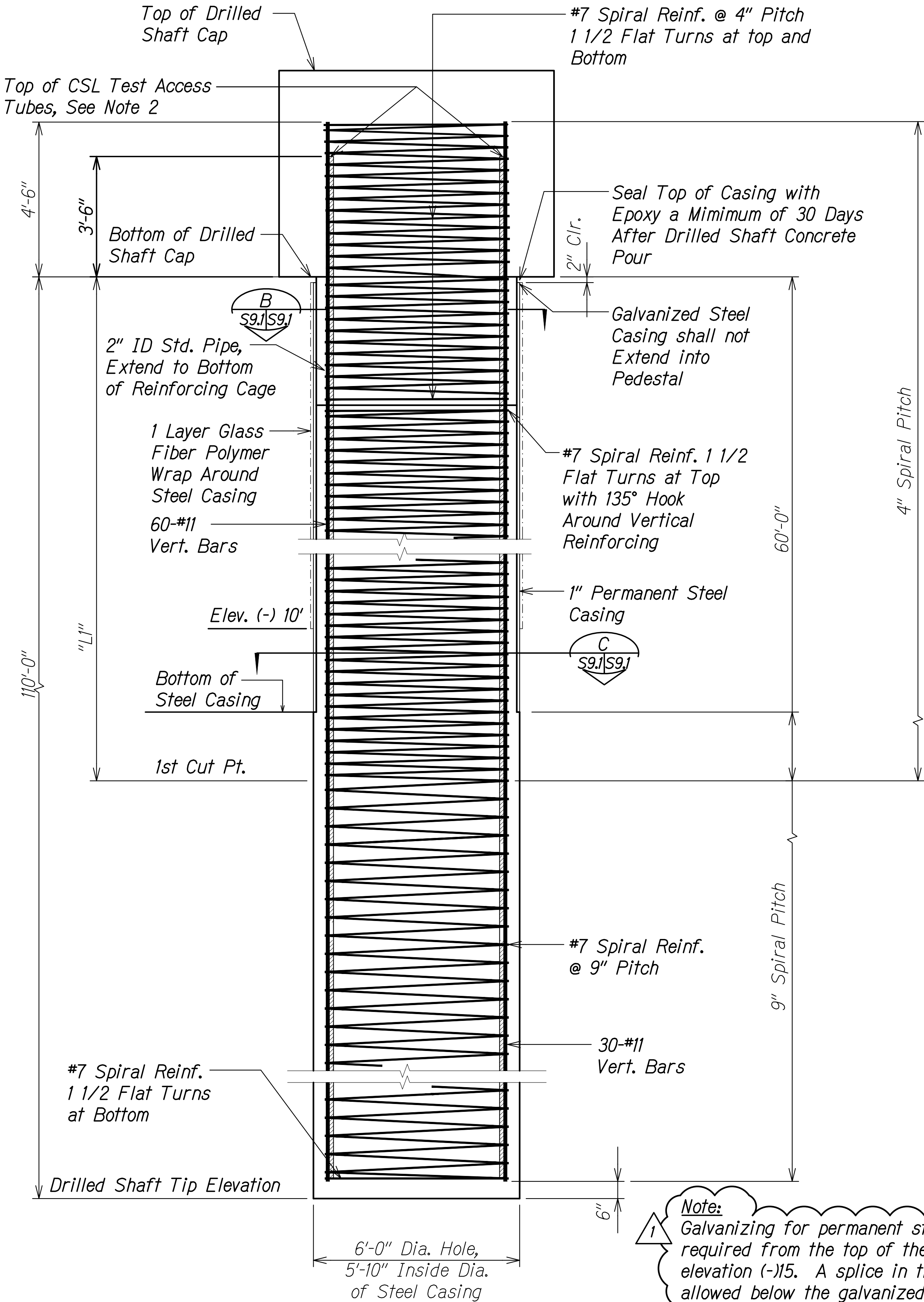


- 30-#11 Cont.
- 30-#11 1st Cut

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



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



DRILLED SHAFT ELEVATION AT PIERS
Scale: 1/2" = 1'-0"

Note: Galvanizing for permanent steel casing is only required from the top of the steel casing to elevation (-)15. A splice in the casing will be allowed below the galvanized portion of the casing.

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

DRAWING NAME: Z:\00 ONGOING\20-016-WALLUA RVR BR SCOUR-DO\01 CAD\08-10-21\ADD2 DELTA\WBS-50901 PROD DS ADD2.DWG PLOT TIME: 08-12-21, 2:51 PM

8/10/21	1	Add. 2 - Added Note
DATE		REVISION

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

PRODUCTION DRILLED SHAFT

AT PIERS

KUHIO HIGHWAY

Repairs to Wailua River Bridge

Fed. Aid Project No. ER-23(001)

Scale: As Noted

Date: Apr. 2021

SHEET No. S91 OF 3 SHEETS

CALVIN T. MIYAKURA

LICENSED PROFESSIONAL ENGINEER

NO. 8133-S

HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature

EXPIRATION DATE OF THE LICENSE