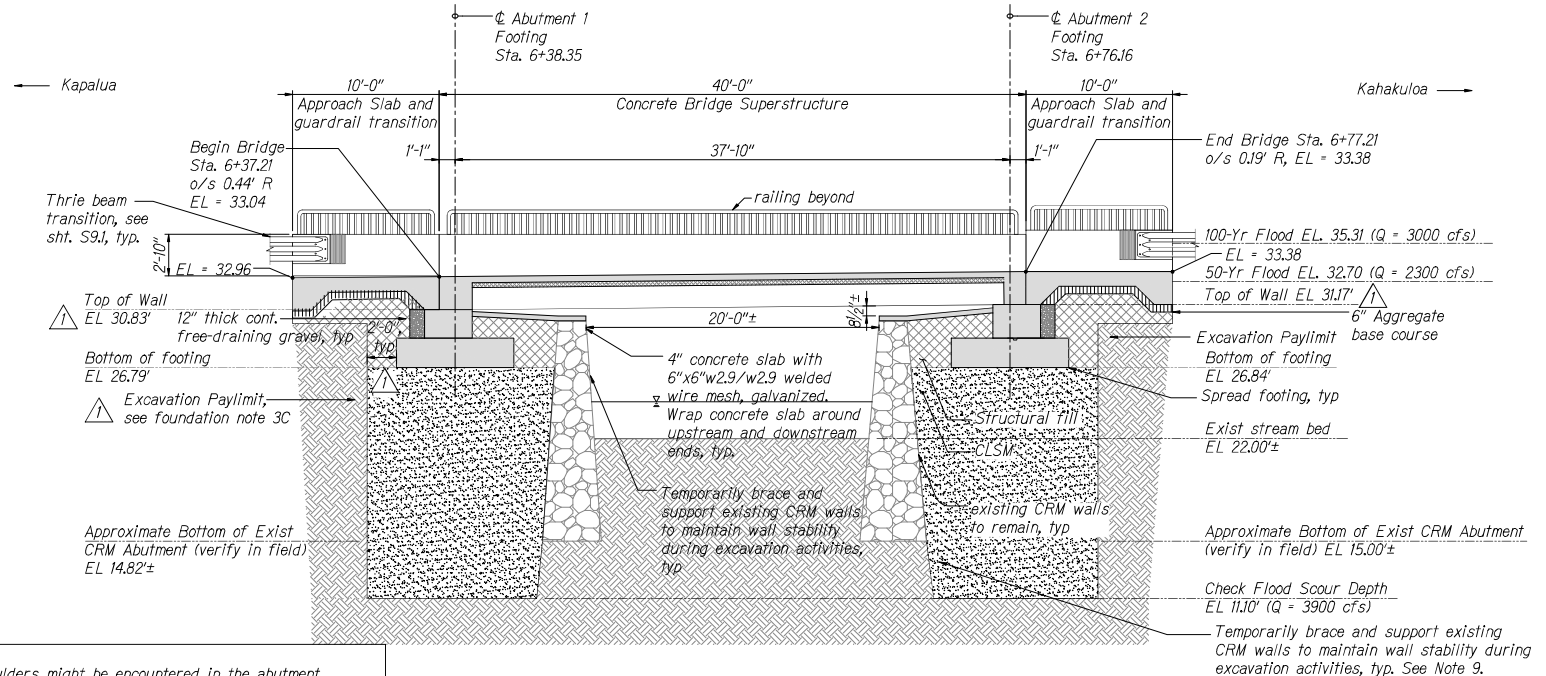


DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
MAUI	HAW.	BR-030-1(37)	2024	ADD.33	42



Notes:

- Boulders might be encountered in the abutment backfills of the existing bridge, and the cost shall be included in the excavation cost.
- Imported structural fill should be well-graded, non-expansive granular material. Specifications for imported granular structural fill should indicate a maximum particle size of 3 inches, and state that between 8 and 20 percent of soil by weight shall pass the #200 sieve. In addition, the plasticity index (P.I.) of that portion of the soil passing the #40 sieve shall not be greater than 10. Imported structural fill should have a CBR expansion value no greater than 1.0 percent and a minimum CBR value of 20 percent, when tested in accordance with ASTM D 1883.
- The approach slab base course should be compacted to a minimum 95 percent compaction as determined by ASTM D 1557. The subgrade should be compacted to a minimum of 90 percent compaction.
- See S21 for shoring and bracing at excavation notes.
- Provide dewatering as needed, see General Notes.
- Provide BMP's to keep debris out of stream during construction.

LONGITUDINAL SECTION AT BRIDGE CENTERLINE

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

Notes continued:

- Since the 200-yr flood scour depth is lower than the 500-yr flood scour depth, the Check Flood scour depth indicated is associated with the 200-yr flood.
- Where a non-erodible layer consisting of gravel, cobbles, and boulders exists at approximately 7 to 17 feet below grade, CLSM may be placed directly onto the non-erodible layer, otherwise CLSM shall extend to the Check Flood scour depth.
- Excavation near the bottom of the existing CRM wall shall require Contractor to hire structural engineer to ensure structural stability and safety based on the existing field conditions. The shoring, bracing, and underpinning for the removal of erodible material and installation of CLSM may be performed with jet grouting and small incremental excavations as determined by the Contractor's engineer.

CLSM Notes:

- CLSM shall conform to ASTM D6103.
- CLSM 28-day compressive strength shall be 1000 psi minimum and contain a blend of micro and macro fibers conforming to ASTM C116.
- CLSM test cylinders shall conform to ASTM D4832.
- See additional CLSM notes on S01.



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION
APRIL 30, 2020
U.C. EXP. DATE

0' 2' 4' 6' 8' 10'
1/4" = 1'-0"

11/26/24	Revised paylimit and elev.
DATE	REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
Bridge Longitudinal Section	
Honouliuli Highway Rehabilitation of Honouliuli Bridge F.A.P. No. BR-030-1(37)	
Scale: As Shown	Date: August 2024
SHEET No. S31 OF 42 SHEETS	

ADD.33