

NOTE:

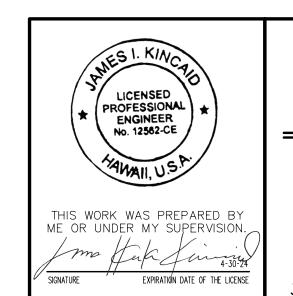
1. Grade at Sta. 9+25 to 12+25 Shall be at a Slope of 1:7 After the Dune Hill.

2. Grade the Beach to Create a Smooth Transition to the Beach Opening.

GRADING & SANDSAVER PLAN

Scale: 1" = 20'-0"

PACIFIC OCEAN

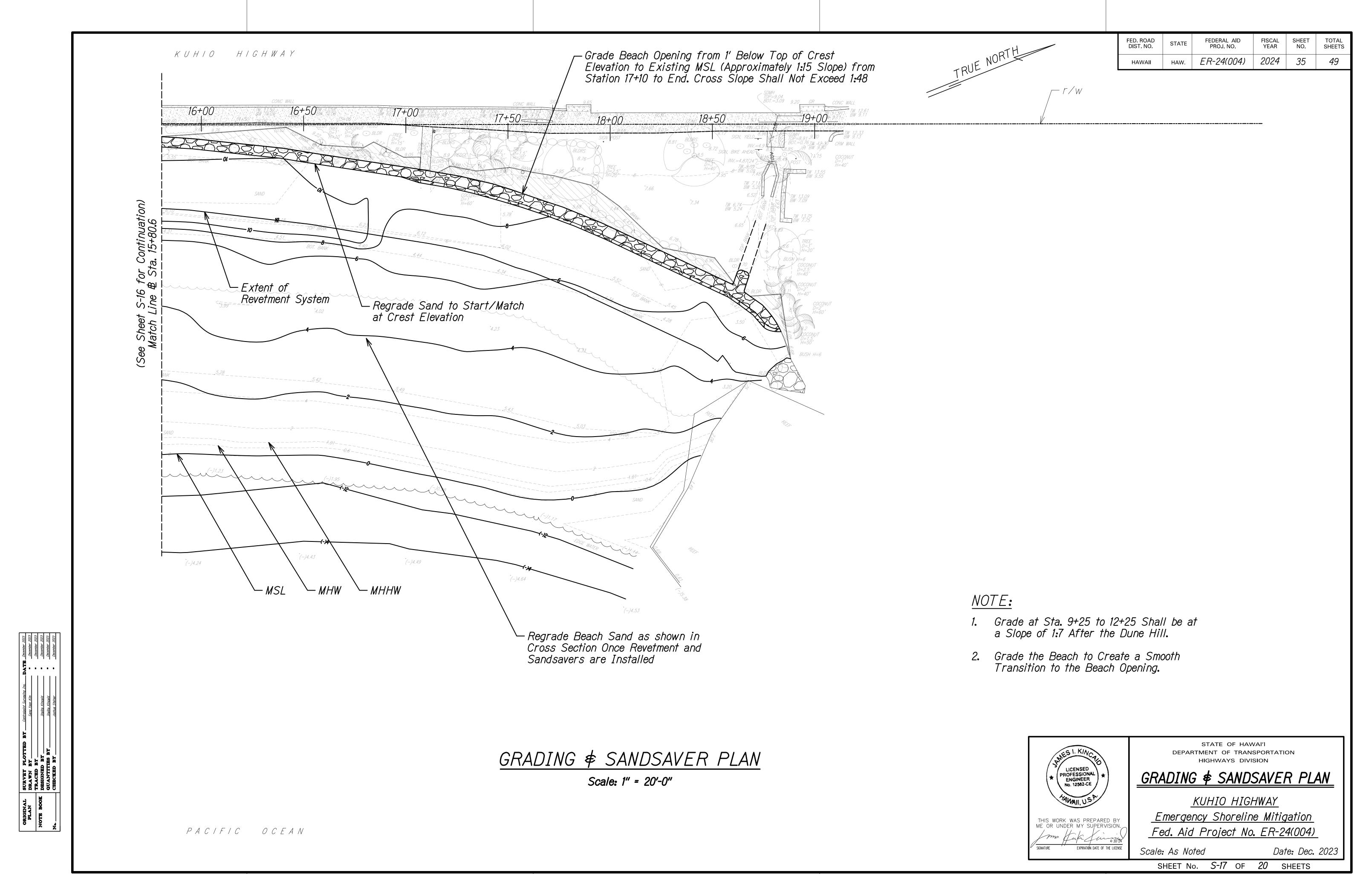


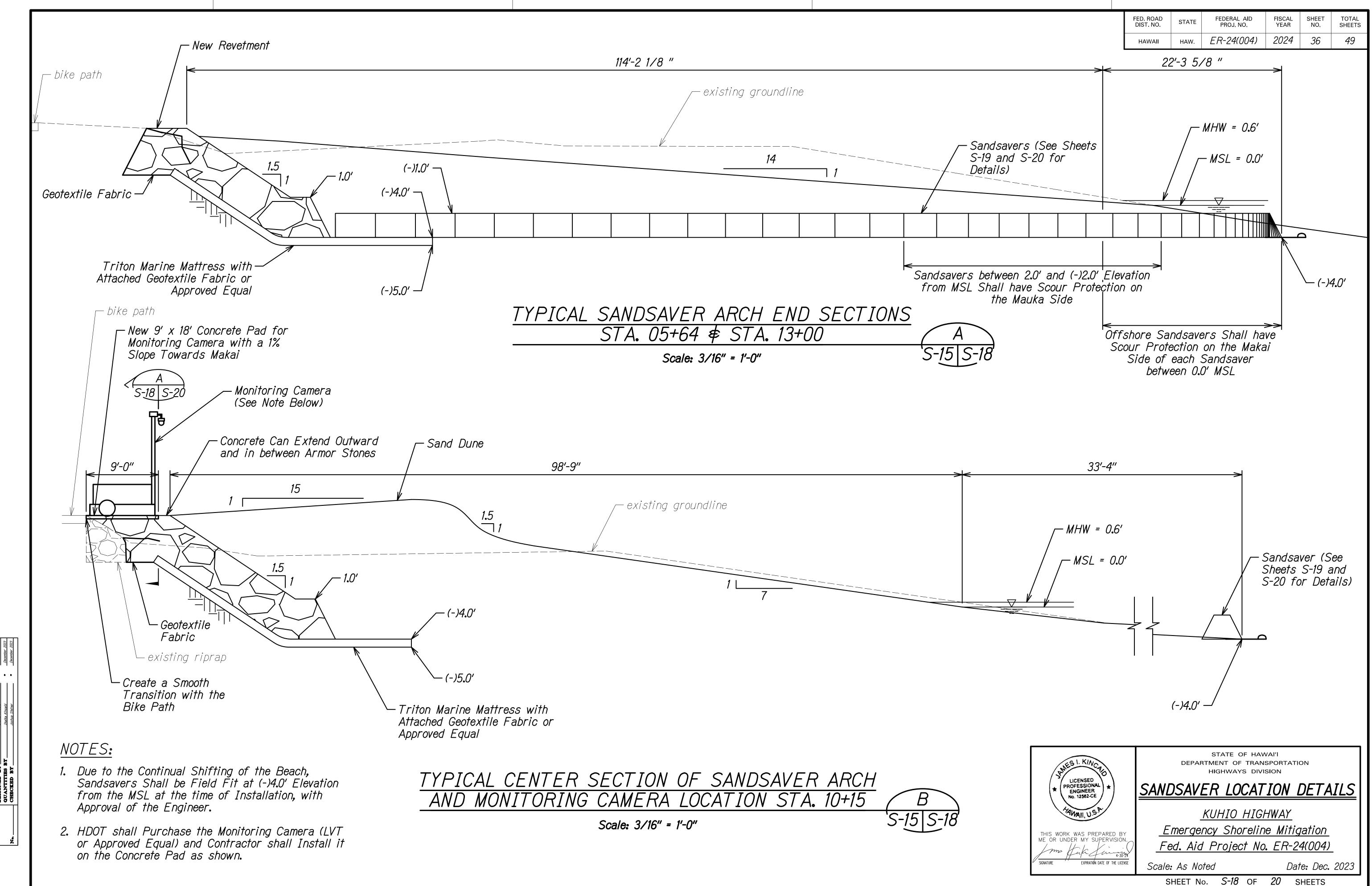
STATE OF HAWAI'I DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

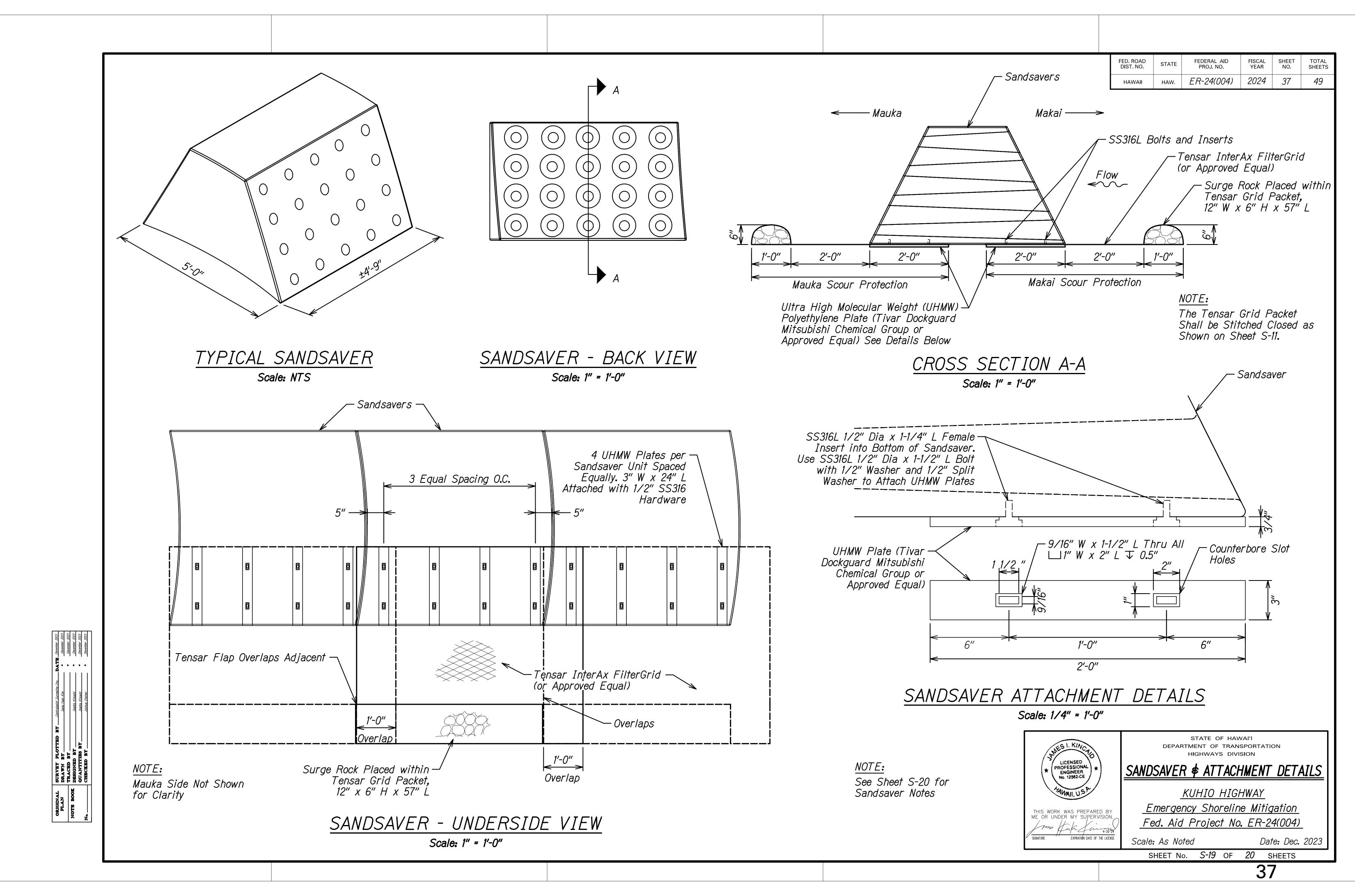
GRADING \$ SANDSAVER PLAN

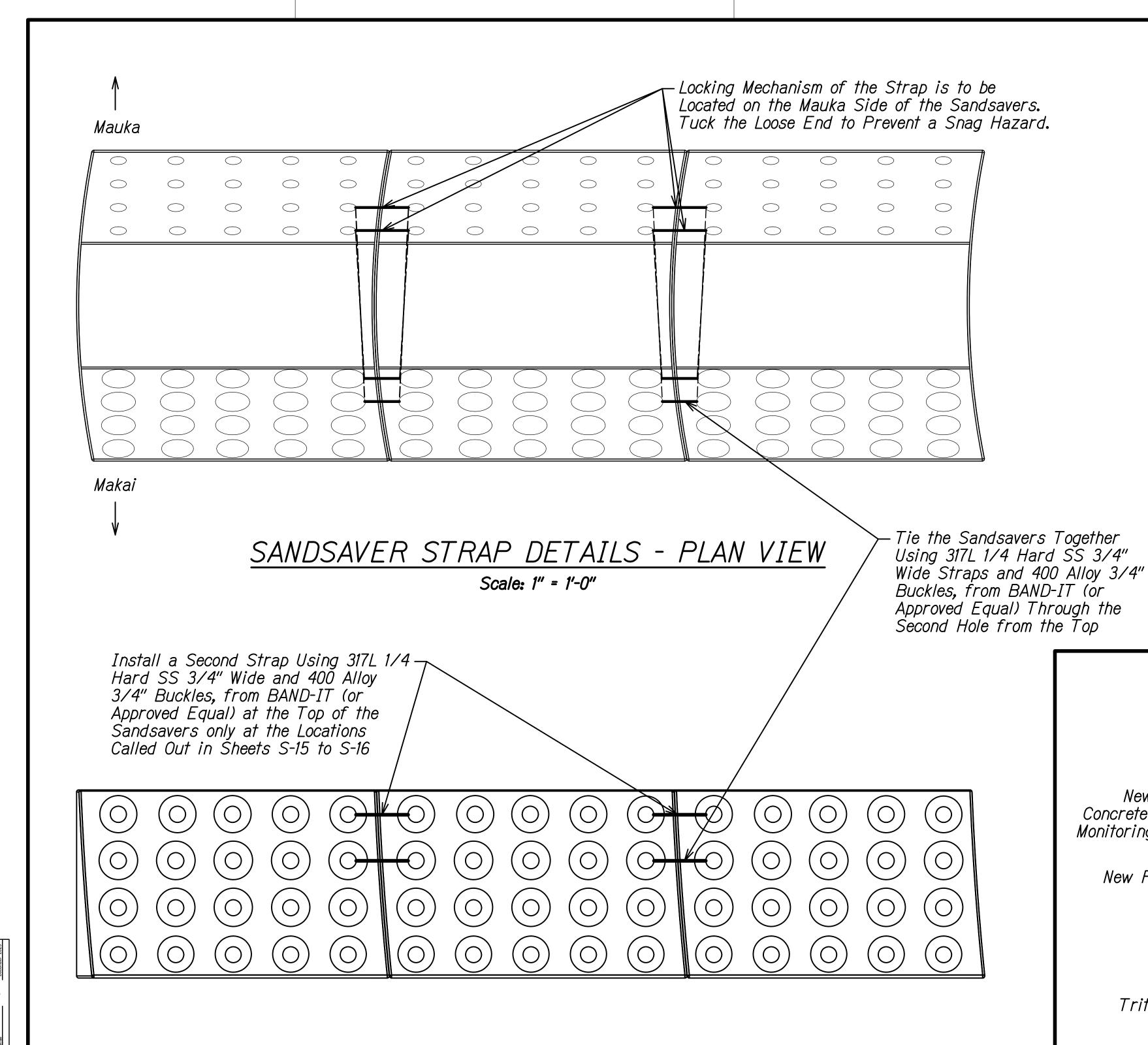
KUHIO HIGHWAY Emergency Shoreline Mitigation Fed. Aid Project No. ER-24(004)

Date: Dec. 2023 Scale: As Noted SHEET No. S-16 OF 20 SHEETS







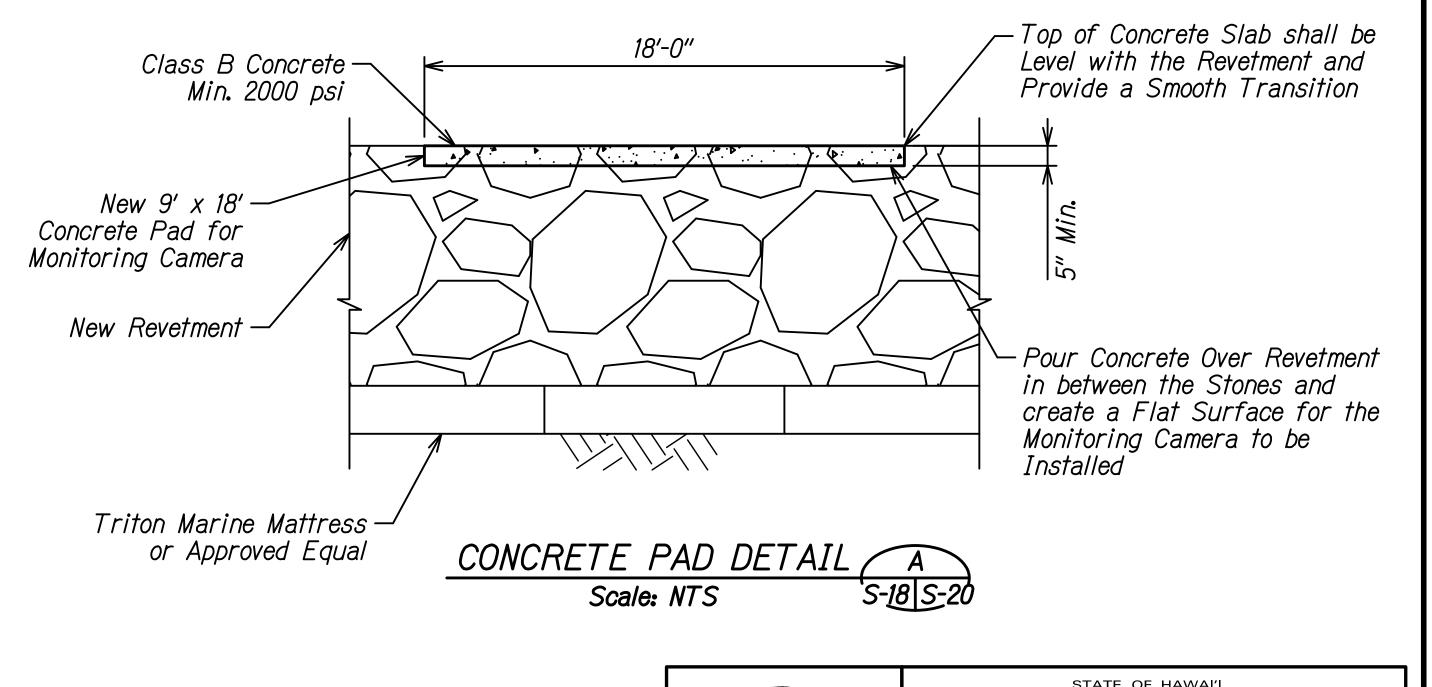


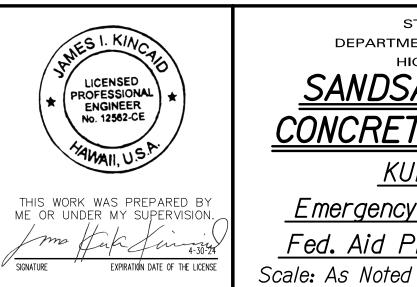
SANDSAVER STRAP DETAILS - BACK VIEW

Scale: 1" = 1'-0"

SANDSAVER NOTES:

- Sandsavers shall be Precast Off-Site at the Manufacturer's Facilities (Ensure that the Inserts on the Bottom of the Units are Installed so that the Scour Connection Plate can be Installed as shown on the Plans).
- 2. The Units will be Shipped to the Project Site Empty. Once on Site, the Units will need to be Filled with Concrete and Transported to the Project Area.
- Attach the Scour Protection Which Consists of Tensar InterAx FilterGrid with Geotextile (or Approved Equal), UHMW Plates and Hardware, and Surge Rock as shown in Sheet S-19. Location's for Mauka and Makai Sections are shown in Sheets S-15 and S-16. Sandsavers will have Different Threaded Inserts for Different Sections of the Arch. Ensure the Correct Sandsaver with the Correct Inserts are Used for Each Mauka and Makai Scour Protection.
- 4. Place Sandsavers, with Heavy Equipment, One at a Time Ensuring that the Scour Protection Overlaps the Adjacent Scour Protection FilterGrid. Sandsavers shall not be Placed at a Depth Greater than (-)4 ft MSL. Sandsavers shall be Abutting One Another with no Gaps as shown in Sheets S-14 to S-19. Ensure the Correct Sandsavers with Scour Protection is Placed in the Right Location.
- Contractor shall Ensure that Each Unit is Flush with the Adjacent Unit Prior to Strapping and Locking the Units Together. Contractor shall Ensure that Each Unit is within a 1.5-in Vertical/Horizontal Tolerance of Each Other.
- 6. Straps shall be Installed Once the Sandsavers are In-Place and Butted Up Next to Each Other.
- 7. The Tail of the Strap shall be Tucked or Shortened and Not Stick Out and Create a Snag Hazard and shall be Located on the Mauka Side of the Sandsavers.





STATE OF HAWAI'I DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJ. NO.

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SANDSAVER STRAP \$ CONCRETE PAD DETAILS

KUHIO HIGHWAY

Emergency Shoreline Mitigation Fed. Aid Project No. ER-24(004)

SHEET No. S-20 OF 20 SHEETS



Date: Dec. 2023