

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-HI-1 (263)	2012	38	55

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ESTIMATED QUANTITIES

Item No.	Item	Quantity	Unit
676.1000	Repair of Concrete Deck	110,000	SF

ABBREVIATIONS

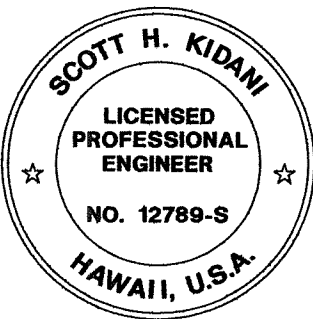
Abut.	Abutment	lb., lbs., LBS.	Pound, Pounds
Alt.	Alternate, Alternating	Longit.	Longitudinal
Approx.	Approximate	Max.	Maximum
Az.	Azimuth	Min.	Minimum
B	Baseline	MPH	Miles Per Hour
Bot., Bott., B	Bottom	No.	Number
CL	Centerline	Ref.	Reference
Clr.	Clearance	Reinf.	Reinforced, Reinforcing,
Col.	Column		Reinforcement
Conc.	Concrete	Req.	Required
Cont.	Continuous	SE	Superelevation
Dia.	Diameter	SF	Square Feet
EA, Ea., ea.	Each	Sta.	Station
Exist., Ex.	Existing	Str.	Straight
Exp., (E)	Expansion	Typ.	Typical
Horiz.	Horizontal	Vert.	Vertical

STRUCTURAL NOTES

(Refer to Specification Section 676 -CONCRETE DECK REPAIR for additional information.)

1. Work
 - a. The project consists of the full depth replacement of the existing concrete deck of the Pearl City and Waimalu Viaducts. Priority 1 repairs are located in the 2 mauka lanes of the In-bound (East-Bound) viaduct and the 2 makai lanes of the Out-Bound (West-Bound) viaduct. Priority 2 repairs are elsewhere on the viaducts. Priority 1 repairs must be completed before Priority 2 repairs are started. The thickness of the repair shall match the existing deck thickness. Bottom of repair shall extend to top of existing girder as shown.
 - b. See Specifications for traffic control and environmental requirements.
 - c. Original construction documents for the Pearl City and Waimalu Viaducts are available from the State of Hawaii Department of Transportation and shall be used to confirm existing details or original construction.
 - d. Deck Condition Survey: The Contractor shall confirm the condition of the bridge decks shown on the plans by visual examination and sounding methods in accordance with ASTM D4580. The roadway plans shall be used as a guide to illustrate the general location of the areas to be repaired. Mark the limits of decking to be repaired for approval by the Engineer. The Engineer may direct the Contractor to do spot repairs outside of the marked priority areas.
 - e. After completing the deck repairs, the entire deck surface of the 2 inside (left) lanes of the Inbound and Outbound structures (4 lanes total) shall receive a 100% silane concrete sealer containing migrating corrosion inhibitors that are amine carboxylate based dipole corrosion inhibitors. The roadway surface texture and friction shall remain unchanged after application of the sealer. The installed sealer shall be compatible with a polyester concrete overlay which will be installed in a future phase of this project. The polyester overlay will utilize a methacrylate resin prime coat and a polyester concrete consisting of a polyester resin binder and dry aggregate.
 - f. The work shall be completed within the time constraints specified for lane closure and traffic control.

2. Approximate Bridge Locations
 - a. Pearl City Viaduct
H-1 Milepost 9.23 to 10.34
Length of Project 1.11 Miles
 - b. Waimalu Viaduct
H-1 Milepost 11.25 to 11.49
Length of Project 0.24 Miles



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

SIGNATURE: *Scott H. Kidani* 4/30/14
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STRUCTURAL NOTES, ESTIMATED QUANTITIES,
INDEX TO DRAWINGS AND ABBREVIATIONS

INTERSTATE ROUTE H-1
FEDERAL AID PROJECT NO. BR-HI-1 (263)

Scale: As Noted Date: July 2012

SHEET No. S-0 OF 18 SHEETS