

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-03-05M	2007	3	36

GENERAL ELECTRICAL NOTES

- Electrical Work shall be New Unless Indicated Otherwise.
- Existing Electrical Equipment shall Remain Unless Indicated Otherwise.
- The Location of Existing Underground Utilities Shown on Plans are from Existing Records and are Approximations Only. Contractor shall Exercise Caution when Construction Crosses or is in Close Proximity to Existing Underground Utilities. Damages to Utility Companies' Existing Facilities shall be Repaired by the Respective Utility Company and Repair Costs shall be Paid by the Contractor at No Additional Cost to the State.
- Existing Highway Lighting and Traffic Signal Pullboxes to Remain shall be Cleaned of Debris and Dirt. Cleaning of Existing Pullbox will not be Paid for Separately, but Considered Incidental to the Various Contract Items.

DEMOLITION NOTES

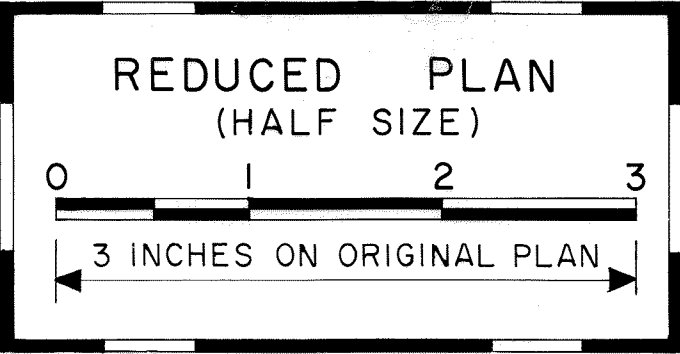
- The Contractor shall Verify All Existing Circuit Wiring Prior to Any Demolition Work.
- Remove All Abandoned Wires and Exposed Raceways.
- Where Contract Documents Indicate Wiring is to be Removed, Remove Existing Wires, Abandon Concealed Raceways, Remove Exposed Raceways.
- For Circuit(s) where Existing Electrical Equipment shall be Removed, Contractor shall Provide All Conduit and Wiring Necessary to Maintain Circuit Continuity to Existing Component(s).
- Existing Highway Lighting System shall Remain Operational During Non Daylight Hours Until New Highway Lighting System is Operational. Contractor Shall Provide Temporary Lighting if the Existing Highway Lights are De-energized Before the New Highway Lights are Operational. Temporary Work shall be Coordinated with and shall be Acceptable to the Engineer. Temporary Highway Lighting System will not be Paid for Separately, but Considered incidental to the Various Contract Items.

HIGHWAY LIGHTING NOTES

- Contractor To Energize Highway Lights A Minimum Of Six (6) Hours For Final Inspection And Acceptance. Contractor To Assume Costs.
- Contractor Shall Have One Set Of Approved Plans At The Job Site At All Times During The Construction Work.
- All Neutral Conductors Shall Have Solid White Insulation. Any Other Method Of Identification Is Unacceptable.
- Contractor Shall Not Backfill Trenches Until Work Is Approved By The Engineer.
- The Contractor Shall Inform The Inspector Of All Concrete Pours At Least Two (2) Working Days In Advance. Concrete Shall Not Be Poured Until Approval Is Granted By The Inspector.
- 150W HPS Low Level Highway Lighting Luminaire Count (Contractor Shall Verify Counts of Installed Luminaires:  
  
0 Degree Tilt = 29 Each Installed; 6 Each Spares Delivered to Oahu District Baseyard  
4 Degree Tilt = 111 Each Installed; 22 Each Spares Delivered to Oahu District Baseyard  
8 Degree Tilt = 66 Each Installed; 14 Each Spares Delivered to Oahu District Baseyard
- All Work Shall Be Done By A Duly Licensed Electrician.
- Trench Dirt And Material Will Not Be Allowed To Be Stored On Roadway Or Shoulder.
- Temporary Trench Patches Shall Match Grade.
- Engineer to Determine Salvagable Material. Deliver all Salvageable Material to the Baseyard as Directed by the Engineer at no Additional Cost to the State. Remaining Material shall be Contractor's Property.
- Contractor to Contact State to Conduct a joint Inspection and Check the Existing Lights Within the Project Limit two weeks Prior to the Start of Any Electrical Work.
- Submit Shop Drawings For All Highway Lighting Components Including Luminaires and Lamps, For Approval.
- Existing Highway Lighting System To Be Kept Operational During Dark Hours Until New Highway Lighting System is Operational. See Demolition Note 5, Sheet E-2.
- The Contractor Shall Be Responsible For Any Damages To Existing Highway Lighting Facilities And Damages Shall Be Repaired By The Contractor At His Cost With No Additional Cost To The State.

ORIGINAL PLAN	DATE	SURVEY PLOTTED BY	_____
		DESIGNED BY	_____
		NOTED BY	_____
		CHECKED BY	_____
NOTE BOOK		No.	_____

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RONALD N. S. HO & ASSOCIATES, INC.  
Electrical Engineers

ANDREW L. MIYASATO  
LICENSED PROFESSIONAL ENGINEER  
No. 4340-E  
HAWAII, U.S.A.

06.03.07

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

04.30.2008

EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

CONSTRUCTION NOTES

H-2 RAIL LIGHT REPLACEMENT,  
VICINITY OF WAHIAWA OFF RAMP

Project No. HWY-0-03-05M  
Scale: AS NOTED Date: JUNE 2007

SHEET No. E-2 OF 35 SHEETS