

GENERAL ELECTRICAL NOTES

- Electrical Work shall be New Unless Otherwise Noted.
- "Wiring" Indicates Insulated Wires in Conduit.
- Contractor shall Take to Determine Exact Location of Existing Utilities & Adjust His Work Accordingly.
- The Locations of the Various Existing Utilities Shown on the Contract Drawings were Determined on the Basis of Best Available Information. Therefore, No Assurance is Provided that the Actual Locations will be Precisely as Shown on the Contract Drawings. The Contractor shall verify the Locations and Depths of the Facilities and Exercise Proper Care in Excavating the Area. The Contractor shall be Held Responsible for any Damages to the Facilities.
- In Performing All Work, the Contractor shall Exercise Due Care and Caution Necessary to Avoid any Damage to and Impairment in the use of any Existing Utility Line. Any Damage Inflicted on Existing Utility Lines Resulting from the Contractor's Operations shall be Immediately Repaired or Restored as Directed by the State at the Contractor's Expense.
- All Electric/Signal Ducts shall have a Minimum Clearance of 1'-0" when Crossing Water/Sewer Lines.
- Due to Ongoing Construction & Maintenance, Conditions Indicated in these Drawings may have Changed. Therefore, the Contractor shall verify all Existing Conditions prior to Work.
- The Contractor shall be Liable for any Damage to Maui Electric Co. Facilities and shall Immediately Report such Damages to Maui Electric Co.'s Trouble Dispatcher at 871-7777.
- All Maui Electric Co. Overhead Facilities shown on these Plans or whose Approximate Locations within the Project Boundaries have been made known by any Reasonable Means at any time to the Contractor shall be Protected at all Times by the Contractor during Construction. Costs for the Damages to Maui Electric Co. Facilities may be Borne by the Contractor. This Repair Work shall be done by Maui Electric Co. or by the Contractor under Maui Electric Co.'s Supervision.
- Any Work Required to Remove/Relocate Maui Electric Co. Facilities shall be done by Maui Electric Co. The Contractor shall be Responsible for Coordination.
- The Project Site Contains Various Maui Electric Co. Lines Operated at 12.47KV and Various other Secondary Voltages. These Lines must Remain Active. Therefore, the Contractor shall Utilize such Methods, Equipment, Etc., Necessary to Protect His Personnel, the Public, State Personnel, Property, Equipment, Etc.

GENERAL CONSTRUCTION NOTES

- The scope of work for this project consists of installing street light foundations and conduits; and restoring existing pavement surface. The Maui Electric Company will be installing aluminum street light standards, wood poles, luminaire arms, luminaires, lamps, ballasts, secondary overhead and underground cabling.
- The Contractor is reminded of the requirements of Subsection 108.01 - Subletting of Contract, which requires him to perform work amounting to not less than 50 percent of the total contract cost less deductible items. Non-compliance with this Subsection may be grounds for rejection of bid.
- The Contractor's attention is directed to the following Section of the Special Provisions: Subsection 107.13 - Public Convenience and Safety; Subsection 107.21 - Contractor's Responsibility for Utility Property and Service; and Section 645 - Traffic Control.
- When trench excavation is adjacent to or under existing structures of facilities, the Contractor shall be responsible for properly sheeting and bracing the excavation and stabilizing the existing ground to render it safe and secure from possible slides, cave-ins, and settlement, and properly supporting existing structures and facilities with beams, struts or underpinning to fully protect it from damage.
- During non-working hours, no construction equipment shall be parked within the road Right-of-Way in such a manner that the equipment will obstruct the normal movement and sight distance of the driving motorist.
- The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data but the accuracy is not guaranteed. The encountering of other obstacles during the course of work is possible. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
- Except during actual working hours, all signs which do not pertain to the construction activity, such as "Men Working" and "Flagmen Ahead" shall be covered or laid down. However, all signs necessary for the safety of the public shall be maintained.
- The Contractor shall employ a Hawaii Licensed Professional Land Surveyor to perform all construction stakeouts, the cost of which shall be borne by the Contractor.
- The Contractor shall make his own arrangements for, and pay for all temporary utilities required for his work.
- The Contractor shall provide for access to and from all existing side streets at all times.

EXISTING FACILITIES LEGEND

mon.	Existing Monument
ep	Existing Joint Utility Pole
W-24"	Existing 24" Water Line
wmh	Existing Water Manhole
wv	Existing Water Valve Box
av	Existing Water Air Valve
fh	Existing Fire Hydrant
d-24"	Existing 24" Drain Line
sdmh	Existing Storm Drain Manhole
gdi	Existing Grated Drop Inlet
cb	Existing Catch Basin
smh	Existing Sewer Manhole
s-8"	Existing Sewer Line
g-2"	Existing 2" Gas Line
gmh	Existing Gas Manhole
p	Existing Sign With 1 Post
B	Existing Sign With 2 Post

STREET LIGHT STANDARD IDENTIFICATION LEGEND

Legend	Description
1	Station Number
2	Street Light Pole Number
3	Pole Clear Setback From Edge of Pavement Striping, See Note No. 2 Below
4	Luminaire Arm Span in Feet
5	Pole Base Mounting Type, See Note No. 3 Below
6	Luminaire Mounting Height Above Pavement

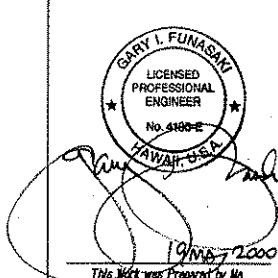
SYMBOL NOTES:

- "X" through dashed item indicates existing item to be removed.
- "BG" indicates pole located behind guardrail. Pole shall be located minimum 4'-4" clear from front of guardrail.
- "TB" indicates transformer base mounting. "PM" indicates joint pole mounted.

ELECTRICAL LEGEND

MECo 2' x 4' Precast Concrete Pullbox with Precast Concrete Cover per MECO Standard Drawings, See Detail C/E-11
Street Light, 250 Watt HPS Single Luminaire, Metal Standard and Bracket Arm, Provided by MECO, Concrete Foundation by Contractor, See Detail A/E-11
Street Light, 250 Watt HPS Single Luminaire and Bracket Arm, Mounted on Utility Pole, Provided by MECO, See Detail A/E-12
Existing Street Light Luminaire & Luminaire Arm, Mtd on Exst Wood Pole
Existing Pole Mounted Transformer
Pole Mounted Transformer, Provided by Maui Electric Co.
Existing Anchor Guy
Anchor Guy, Provided by Maui Electric Co.
Existing Utility Pole
Utility Pole, Provided by Maui Electric Co.
Street Light Ductline and Wiring
ES/OH Overhead Electric Secondary Lines to be Provided by Maui Electric Co.
e/oh Existing Overhead Elec/Signal Lines
e/oh Existing Overhead Elec/Signal Lines to be Removed by Respective Utility Co.
t Existing Telephone Underground Ductline
Duct Section Designator, Type "A" Ductline and Type "2L" Duct Indicated, See Sheet E-12 for Duct Sections and Conduit Schedule.
X "X" Indicates Remove

ORIGINAL PLAN	DATE
NOTED BY	
DESIGNED BY	
CHECKED BY	
NO.	

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION  <b>NOTES AND LEGEND</b>  Street Lights at Various Highway Locations Project No. HWY-M-06-98  Scale: NONE Date: May, 2000 SHEET No. E4 OF 12 SHEETS
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