STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(8)	U2	U3

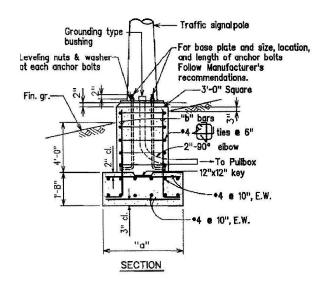
1. Design Specifications:

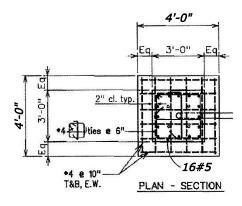
- (A) Design shall conform w/ the latest AASHTO Standard Specifications for the Structural Supports for Highway Signs, Luminaires & Traffic Signals and its interim supplements and modifications by the Highways Division, Department of Transportation State of Hawaii.
- (B) Latest HDOT Memorandum with subject title "Design Criteria for Bridges and Structures."

- 2. Loads:
 (A) Basic Wind Speed: 105 mph.
 - (B) Recurrence interval of 50 years.
 - (C) Fatigue importance factor, IF, shall be based on Fatigue Category | for cantilevered traffic signal structures.
 - (D) Vortex shedding induced loads shall be considered for cantilevered most arms and pole shafts that do not have tapers or have tapers of less than 0.14 in/ft.

- 3. <u>Materials:</u>
 (A) All concrete strengths shall be as noted below unless otherwise noted: Classes of Specified Compressive Structural Parts Footing and Pedestal 4,500 psi
 - All concrete with a 28 day compressive strength of 4,000 psi or greater shall have a maximum W/C ratio of 0.45.
- (B) All connection bolts shall be AASHTO M164 bolts and anchor bolts shall be AASHTO M314-105 bolt.
- (C) Aluminum members and surfaces in contact with structural steel shall be isolated with neoprene material as approved by the Engineer.

- (A) See B-01, TE-32, TE-33A1, and TE-33A2 for
- (B) The recommendations of the traffic pole manufacturer shall be followed. Manufacturer shall select pole, anchor bolts, etc. based on criteria given in the contract documents. The Contractor shall submit catalog cuts and calculations to the Engineer for approval.
- (C) Alternate designs in accordance with the plans and specifications shall use the Service Load Design Method and shall be stamped by a registered engineer of the State of Hawaii in the related discipline and submitted to the Engineer for approval.
- (D) The Contractor shall use templates while installing the anchor bolts. Anchor boits shall be vertical.
- (E) Excavation and backfill shall be considered incidental to the cost of the traffic signal foundation.
- (F) Foundation is subsidiary to item No. 63602-2000, System Installation, Lighting.





STREET LIGHT FOUNDATION DETAIL



U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY SPECIAL

SOLAR POWERED STREET LIGHTING DETAILS

SHEET 1 of 2

NO SCALE

SIGNATURE

EXPIRATION DATE OF THE LICENSE

636-A

