

GENERAL NOTES

1. The location of overhead and underground facilities shown on the plans are from existing records with varying degrees of accuracy, and are not guaranteed as shown. The Contractor shall exercise extreme caution whenever construction crosses, or is in close proximity of underground lines and shall maintain adequate clearance when operating equipment within or under any overhead lines.
2. Any additional pullboxes or handholes required due to changes in grade or direction, shall be furnished and installed by the Contractor.
3. All electrical conduits shall cross below all water lines. Minimum vertical clearance between water line and electrical ductline crossng shall be 18".
4. All work on electrical ductlines completed by the Contractor without utility company inspection and authorization, and subsequently condemned by the utility company, shall be redone by the Contractor, at no additional cost.

EQUIPMENT SCHEDULE

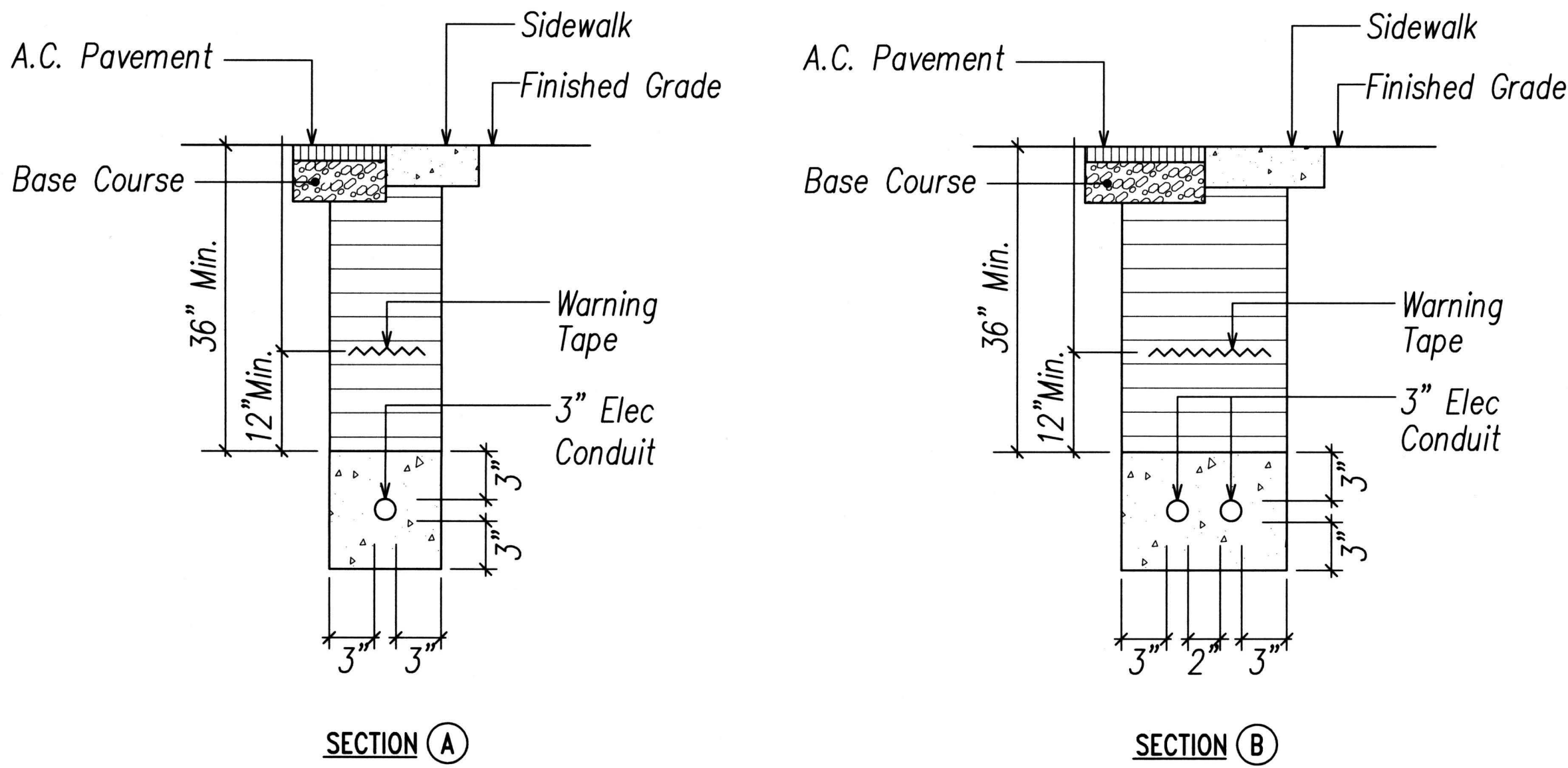
The Hawaiian Electric Company Pullboxes, Handholes, and Transformer Pad Lots, Shall Be Constructed By The Contractor As Shown In These Drawings & In Accordance With The Following Standard Drawings:

Type	Description
6' X 7' HECO Transformer Pad Lot	6' X 7' Transformer Pad With Reinforced Concrete Transformer Pad And Ground Rod Per HECO Standard Drawing No. <u>30-5001</u> And <u>011249</u> .
3' X 5' HECO Pullbox	3' X 5' Type 35 Reinforced Concrete Pullbox With Precast Concrete Covers, Provided In Accordance With HECO Standard Drawing Number <u>101020</u> .

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
	Existing Street Light
	Existing Pullbox or Handhole, See Plans for Designation
	New 3'x5' HECO Pullbox
	New Type C Traffic Signal Pullbox, See Traffic Signal Plans
	New HECO Transformer, See Detail on Sheet E-6
	New Traffic Signal Cabinet, See Traffic Signal Plans
	New Meter Stand with Electrical Distribution Equipment
	Electrical Ductline with Designators; Indicates Type "A" Duct Section with Type "3E" Duct, See Schedule This Sheet
	New Electrical Ductline

Note: "X" Through Symbol Denotes Item to be Removed.



TYPICAL DUCT SECTIONS

STATE RIGHT-OF-WAY BACKFILL NOTES:

- Trench Backfill Material "A" Beach Sand, Earth, or Earth and Gravel. If Earth and Gravel Used, the Maximum Shall Contain Not More than 50% by Volume of Rock Particles. Maximum 8" Loose Fill Per Lift. Obtain 95% Compaction For Each Lift.
- Concrete - 3000 PSI Compressive @ 30 Days.

CONDUIT SCHEDULE

ITEM	DESCRIPTION
(2E)	2-3"C Electrical, PVC, Schedule 40
(3E)	3"C Electrical, PVC, Schedule 40
(2E)	2"C Electrical, PVC, Schedule 40

APPROVALS:

Hawaiian Electric Company

Date



LICENSE EXPIRES 4/30/18

THIS WORK WAS PREPARED BY ME/JOR UNDER MY SUPERVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**ELECTRICAL SYMBOLS,  
NOTES, AND DETAILS**  
VINEYARD BOULEVARD  
TRAFFIC SIGNALS AT RIVER STREET  
PROJECT NO. 98A-01-15  
Scale: AS NOTED Date: Aug. 2017  
SHEET No. E-1 OF 6 SHEETS