

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(47)	2000	64	91


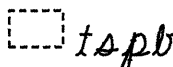

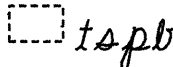

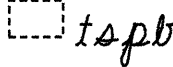


TRAFFIC SIGNAL NOTES

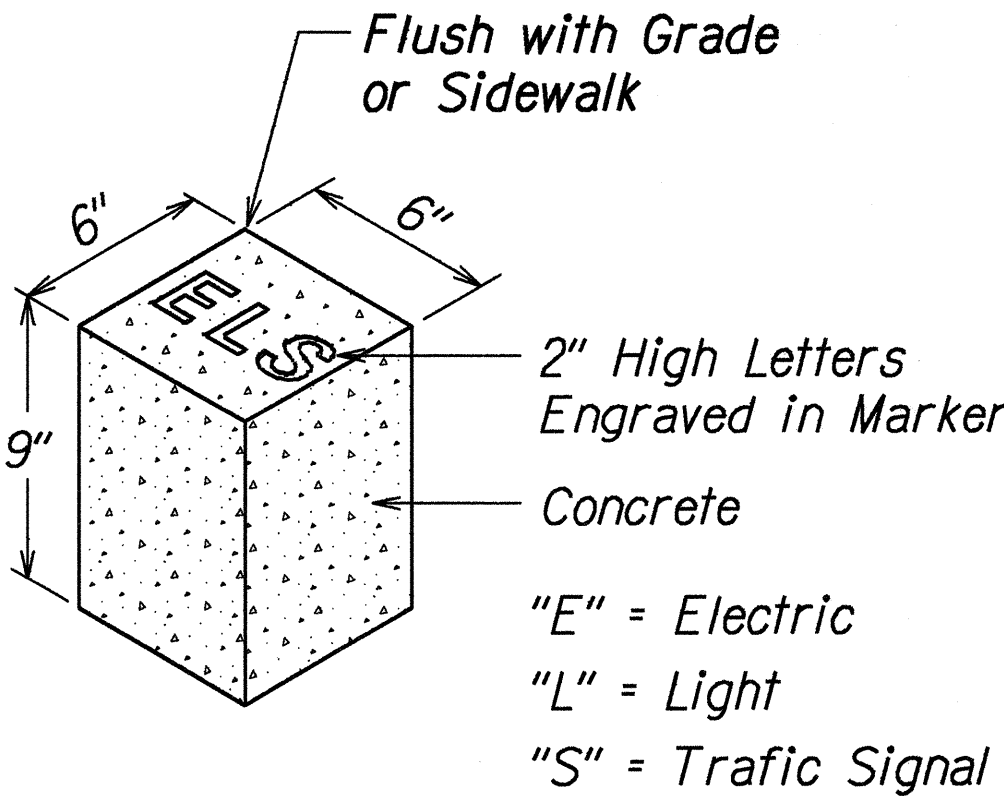
- The locations of the Traffic Signal Standards Foundations, Pedestrian Push Buttons, Pullboxes, Conduits and Loop Detectors shall be staked out in the field by the Contractor and approval of the locations shall be obtained from the Engineer prior to construction and installation.
- All splicing shall be done in the pullboxes.
- Furnishing and installing the conduit stubouts (pullboxes to edge of pavement) including stubout markers will not be paid for separately but shall be considered incidental to the various contract items.
- Should any defect be encountered during the warranty period, the manufacturer will be notified and he shall promptly correct such defect. Service call (by factory qualified representative) during the warranty period for repairs or other maintenance shall be answered within 24 hours and shall be done at no expense to the State. All repairs shall be done as soon as possible.
- All traffic signal work shall conform to the requirements of the "Manual On Uniform Traffic Control Devices For Streets And Highways", Federal Highway Administration (1988) and Amendments.
- Locations of traffic markings and markers (lane lines, Stop lines, crosswalk, etc.) shown on the plans shall be verified with the Engineer prior to the installation of the traffic signal system.
- All Conduits between pullboxes and Traffic Signal/Highway Lighting Standards shall not be paid for separately but shall be considered incidental to the various contract items.
- All Signal-Drop Cables (Type 5 Cables/4C*14) from the various Types of Traffic Signal Head on the traffic signal standards and mast arms to the pullboxes shall not be paid for separately but considered incidental to the Traffic Signal Head.
- After installing all the traffic signal cables, the Contractor shall duct seal all conduits in the pullboxes, traffic signal standards and traffic signal controller cabinet concrete base. The duct seal material shall be approved by the Traffic Signal Inspector/Engineer and shall not be paid for separately but considered incidental to the direct buried and/or concrete encased conduits.
- After installing the Traffic Signal System, the Contractor shall apply grease to all parts of the Traffic Signal System (i.e. fittings, brackets, nipples, elbows, screws, signal head assemblies, bolts, hinges, etc.) as directed by the Traffic Signal Inspector, to prevent rust and corrosion. The grease material shall be approved by the Signal Inspector.
- Connecting into existing traffic signal system and making all necessary adjustments shall not be paid for separately, but considered incidental to the various traffic signal contract items.
- The Contractor shall notify the Traffic Signal Branch, Department of Transportation Services, City & County of Honolulu, (phone no. 523-4589) two weeks prior to commencing any work on the traffic signal system.
- The Department of Transportation Services, City & County of Honolulu, will assist the Engineer in construction inspection for the traffic signal system. The Contractor shall notify the Electrical and Maintenance Services Division, Department of Transportation Services, three (3) working days prior to commencing work on the traffic signal system (phone no. 523-4589).

TRAFFIC SIGNAL NOTES (CONTINUED)

- All existing pullboxes, traffic signal poles and controller bases not incorporated into the New Traffic Signal System shall be removed to 6 inches below grade.
- Existing loop detectors and conduits not incorporated into the New Traffic Signal System shall be abandoned in place. Abandoned conduits shall be plugged with concrete. Remove existing cables.
- The traffic signals shall be kept operational during construction. Any relocation required shall be approved by the Electrical and Maintenance Services Division, Department of Transportation Services, City and County of Honolulu and paid for by the Contractor.
- The Contractor shall be responsible for any damages to existing Traffic Signal Facilities. Including the Traffic Signal Interconnect System, and any and all damages to these facilities shall be repaired by the Contractor at his cost in with the requirements of the City and County of Honolulu.
- The concrete jacket for the Conduit By-Pass Details shown on Sheet T22, shall not be paid for separately but considered incidental to the various contract items. The Engineer shall determine if a concrete jacket is required.
- The Contractor's attention is directed to Plan Sheets Nos. 12 to 16, Curb Ramp Details, for planned locations of traffic signal poles and/or pedestals with pedestrian push buttons.
- The Contractor's attention is directed to Highway Lighting Notes on Sheet T14 when working in close proximity to any utility.
- The Contractor shall adjust Pedestrian Signals on relocated Traffic Signal Poles as directed by the Engineer. Adjustments of Pedestrian Signals shall be considered incidental to relocation of Traffic Signal Poles.

TRAFFIC SIGNAL LEGEND

NEW	EXISTING	
_____	-----	Traffic Signal Conduit
	 tspt	Type A Pullbox
	 tspt	Type B Pullbox
	 tspt	Type C Pullbox
	 tspt	Loop Detectors



CONDUIT STUB-OUT MARKER
Not to Scale

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**TRAFFIC SIGNAL LEGEND
AND NOTES**
KALANIANA'OLE HIGHWAY RESURFACING
Ainakoa Avenue to West Hind Drive
Federal Aid Project No. NH-072-1(47)
Date: June, 1999
SHEET No. 713 OF 23 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
10/2/99	
10/2/99	
10/2/99	