FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(6)	2001	6	33

TRAFFIC SIGNAL LEGEND

- C — Exist. Traffic Signal Controller
- 1 — Traffic Signal Conduits & Cables See Details on Sheet 32.
- Exist. Traffic Signal Head
- New 12" RYG Traffic Signal Head
- New 12" RYG Traffic Signal Head w/ Back Plate
- New 12" RY ← Traffic Signal Head
- New 12" RY ↑ Traffic Signal Head
- New 12" RY ↑ Traffic Signal Head w/ Back Plate
- New 12" RYG $\frac{G}{Y}$← Fiber Optic Traffic Signal Head
- New 12" RYG $\frac{G}{Y}$← Fiber Optic Traffic Signal Head with Back Plate
- Exist. Type II Traffic Signal Standard with Mast Arm and Traffic Signal Heads
- 12' — New Type II Traffic Signal Standard with Mast Arm and Traffic Signal Heads
- Exist. Type III Traffic Signal Standard with Mast Arm and Traffic Signal Heads
- Exist. Pedestrian Signal Head
- New Pedestrian Signal Head
- Exist. Pullbox
- New Type B Metric Pullbox See Details on Sheet 31.
- Exist. Loop Dectectors
- Exist. Opticom Receiver
- New Opticom Receiver

TRAFFIC SIGNAL NOTES

1. The locations of the traffic signal standards, pullboxes and conduits 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.
2. Any required splicing shall be done in the pullboxes.
3. Furnishing and installing controller barriers, risers on poles and conduit stubouts (pullboxes to edge of pavement) will not be paid for separately but shall be considered incidental to the various contract items.
4. A solid #8 bare copper wire shall be pulled with the traffic signal control cable for equipment ground. Cost shall be incidental to the installation of the control cable.
5. All Traffic signal controller equipment shall be completely wired in the cabinet and shall control the traffic signals as called for in the Plans.
6. Existing traffic signal standards to be replaced shall be removed together with its respective footing. The Contractor may elect to remove only the top portion of the footing. In such cases, the Contractor shall ensure that the remaining footing shall be 12 inches below the existing or finish ground. The Engineer will determine whether the removed standards shall be disposed of or salvaged. Costs shall be considered incidental to the various contract items.
7. The existing traffic signal system shall remain in operation until the new traffic signal system is put into service. The Contractor shall arrange his work accordingly and shall provide temporary relocations and wirings, as necessary. Any relocation shall be approved by the Traffic Control Branch, Department of Transportation Services, and payment shall be considered incidental to the various contract items.
8. The Contractor shall clean and/or repair the existing traffic signal pullboxes to be used prior to installing conduits and cables. This work will not be paid for separately but shall be considered incidental to the various contract items.
9. The Contractor shall clean all existing conduits prior to pulling cables. This work will not be paid for but shall be considered incidental to the various contract items.
10. The Contractor shall maintain a 36" clearance between the Control Ductline and Loop Detectors.
11. All items damaged due to construction operations shall be repaired to original or better condition (striping, markers, pavement, grassing, curb, gutter, sidewalk, detector, utilities, etc.) and payment shall be considered incidental to the various contract items.
12. The Contractor shall provide off-duty police officer(s) to control the flow of traffic as required by the Engineer.
13. Carefully remove and salvage all traffic signal heads and mountings. Removing and salvaging existing traffic signal equipment including controllers, pullbox frame & cover, cabinets, pedestrian push buttons, etc. shall not be paid for separately but considered incidental to the various contract items.
14. The Engineer shall determine the salvageable equipment. All salvageable equipment shall become the property of City DTS and the unsalvageable equipment shall become the property of the Contractor for proper disposal.
15. Conduits between traffic signal standard and pullbox shall be furnished and installed in sufficient numbers and lengths, as required. Cost shall be incidental to traffic signal foundation.
16. The Contractor shall notify the Traffic Signals and Technology Division, Department of Transportation Services, three (3) days prior to commencing work on the traffic signal system. (Phone: 523-4589)
17. The Contractor shall replace and/or retrofit all existing red, yellow, green and green arrow incandescent optical units with LED optical units.
18. Contractor shall verify all work in the field prior to submitting of bid, ordering of materials, fabrication of brackets, etc.
19. The existing controller foundation not to be incorporated in the final traffic signal system shall be removed in accordance with Section 202, "Removal of Structures and Obstruction" of the Standard Specifications. Costs shall be considered incidental to the various contract items.

ORIGINAL PLAN | NOTE BOOK | No.

SURVEY PLOTTED BY | DRAWN BY MM | TRACED BY | DESIGNED BY JA | QUANTITIES BY | CHECKED BY | DATE

HOWARD K. ENDO * LICENSED PROFESSIONAL ENGINEER No. 6185-C * HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

SHIMABUKURO, ENDO & YOSHIZAKI, INC.
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Honolulu, Hawaii 96816

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNAL NOTES AND LEGEND

Fort Weaver Road
Traffic Signal Modernization
Federal-Aid Project No. CMAQ-076-1(6)

Date: Sept., 2000

SHEET No. 1 OF 1 SHEETS

9-25-00 FINAL