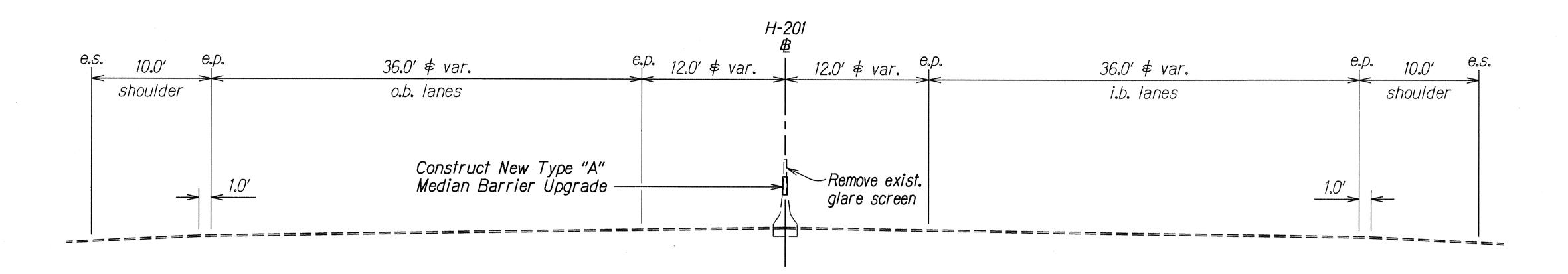
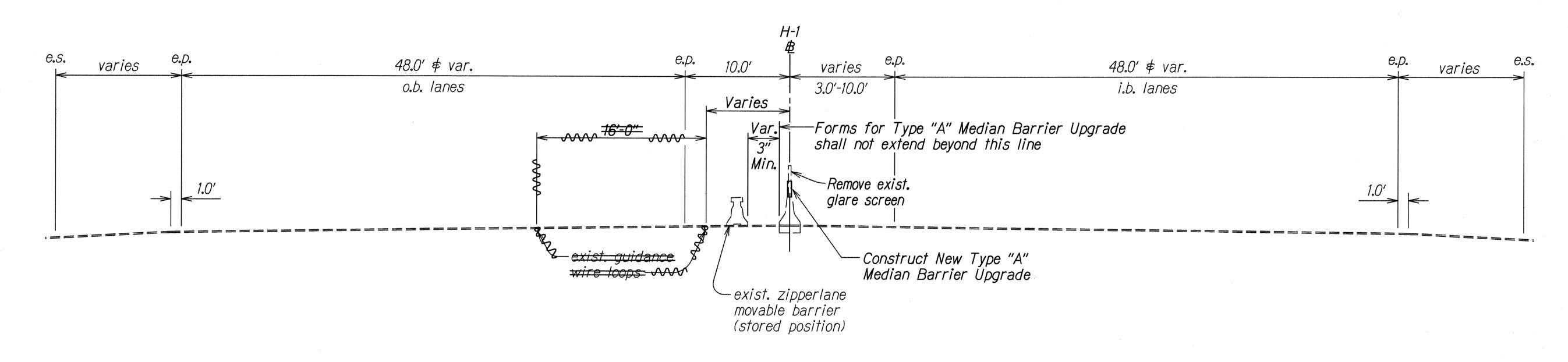
FED. ROAD DIST. NO. STATE PROJ. NO. FISCAL YEAR NO. SHEETS

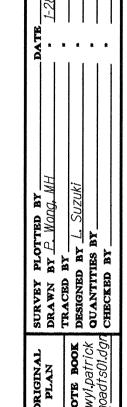
HAWAII HAW. STP-H201(2) 1998 4 23



MOANALUA FREEWAY TYPICAL SECTION Scale: 3/16"=1"



INTERSTATE ROUTE H-1 TYPICAL SECTION Scale: 3/16"=1"



LEGEND FOR AS-BUILT POSTINGS

Squiggly line for as-built deletion

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Double line for as-built deletion

Roadway Text for

Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS

MOANALUA FREEWAY
REPLACE GLARESCREENS AND GUARDRAILS

FEDERAL AID PROJECT NO. STP-H201(2)

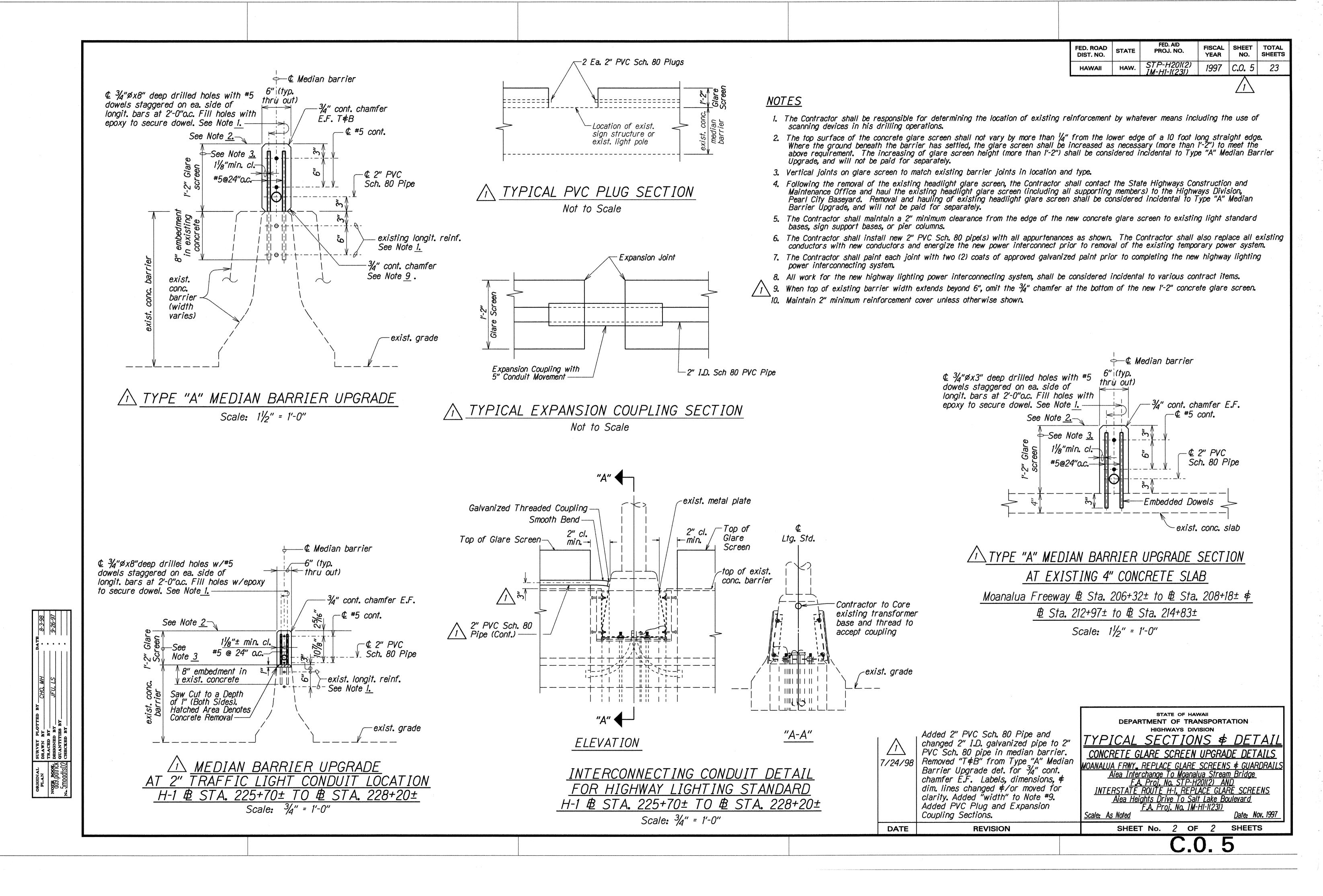
INTERSTATE ROUTE H-1

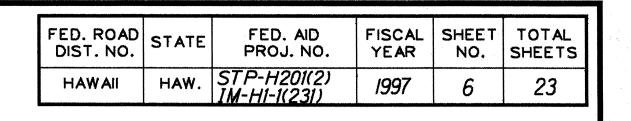
REPLACE GLARESCREENS

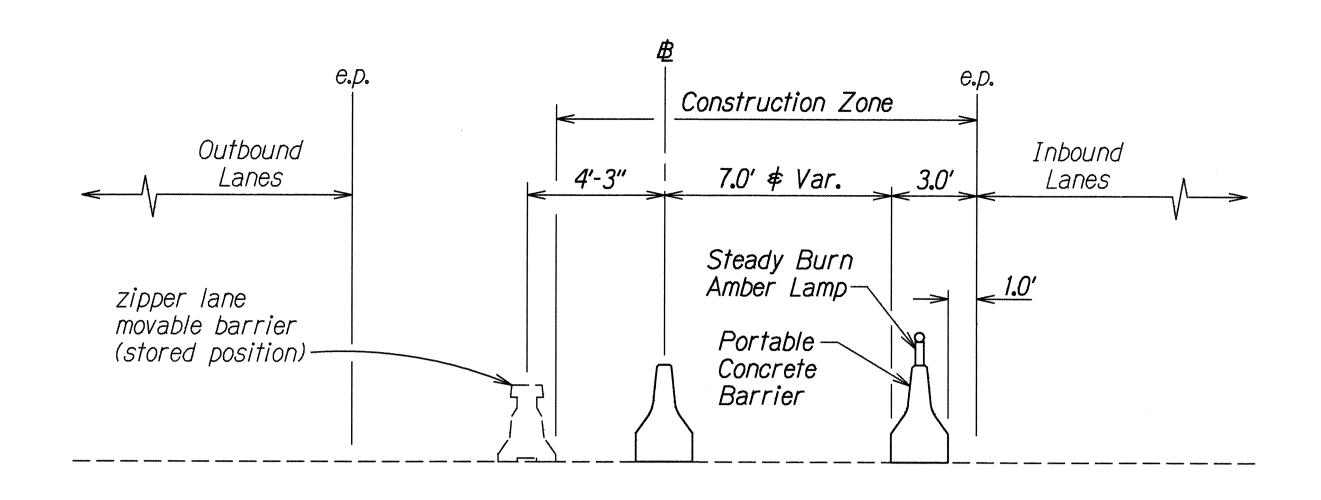
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FEDERAL AID PROJECT NO. IM-H1-1(231)

Scale: As Shown Date: Nov. 1997

SHEET No. 1 OF 3 SHEETS

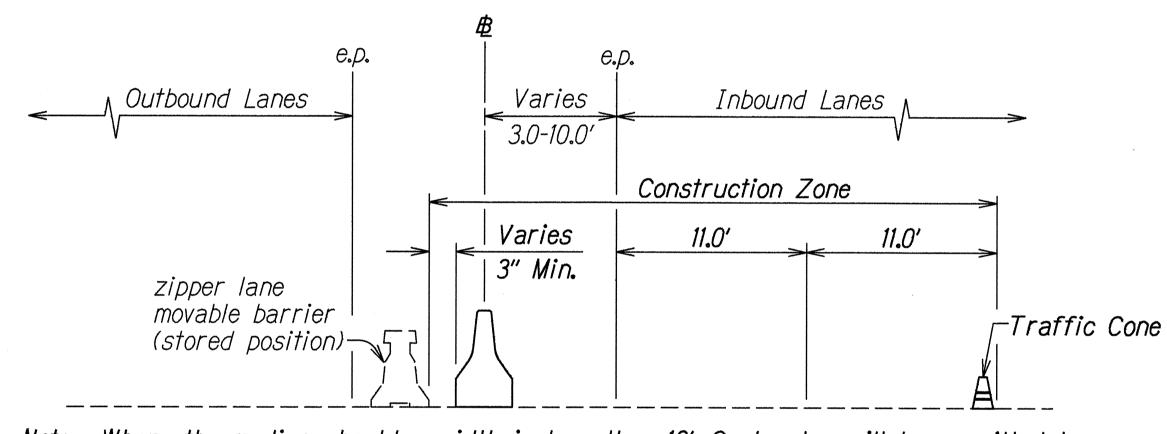






INTERSTATE ROUTE H-1 TYPICAL SECTION MEDIAN BARRIER UPGRADE CONSTRUCTION AREA

Not to Scale



Note: Where the median shoulder width is less than 10', Contractor will be permitted to close two lanes of traffic on the inbound side.

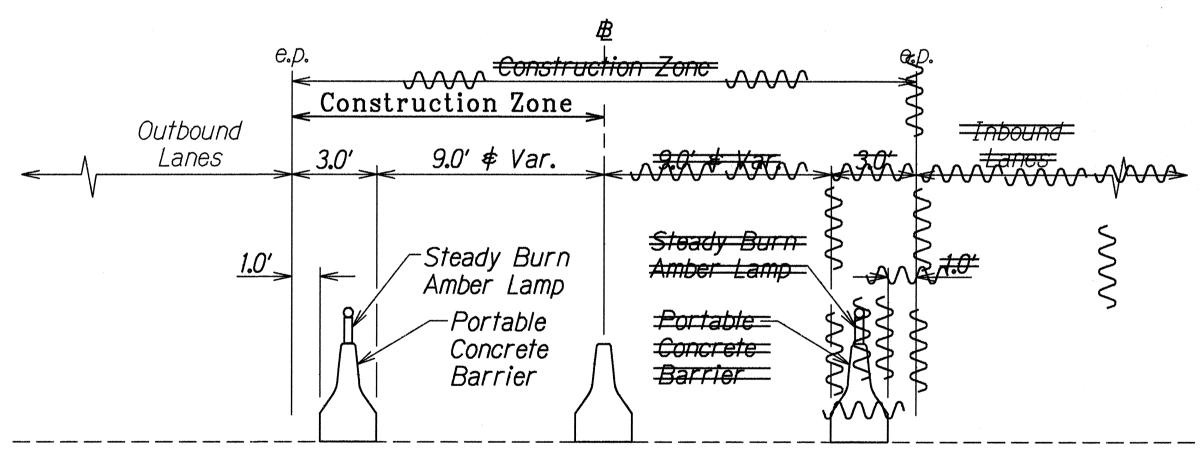
TYPICAL SECTION NARROW MEDIAN SHOULDER CONSTRUCTION AREA Not to Scale

SURVEY PLOTTEI
DRAWN BY _____
TRACED BY ____
DESIGNED BY ____
QUANTITIES BY ___
CHECKED BY

CONSTRUCTION NOTES:

- 1. Bolts remaining after the removal of the existing glare screen may be left in and covered by the New Type "A" Median Barrier Upgrade.
- 2. The Type "A" Median Barrier Upgrade will be installed on Interstate Route H-1 before Moanalua Freeway.

 Interstate Route H-1 will need 245 units of State-Furnished Portable Concrete Guardrail, and Moanalua Freeway will need 310 units for the longest phase of construction (B Sta. 281+42± to B Sta. 311+72±).
- 3. Upon completion of the Type "A" Median Barrier Upgrade installation on Interstate Route H-1, the Contractor shall remove, haul and place the State-Furnished Portable Concrete Guardrail and Inertial Barrier System (including all supporting members) to Moanalua Freeway. Removing, hauling and placing of the portable concrete barrier and Inertial Barrier System shall be considered incidental to various contract items and will not be paid for separately.
- 4. Before installation of Type "A" Median Barrier Upgrade on Moanalua Freeway, the Contractor shall haul and place 65 additional units of State-Furnished Portable Concrete Guardrail from Waipio Interchange or other locations. Hauling and placing of portable concrete barrier shall be paid for under Item No. 606.4231.
- 5. Upon completion of the Type "A" Median Barrier Upgrade and QuadGuard System installation on Moanalua Freeway, the Contractor shall contact the State Highways Construction and Maintenance Office and haul all of the State Furnished Portable Concrete Guardrail (including all supporting members) to the Highways Division, Pearl City Baseyard or other locations. The Inertial Barrier System shall be taken to the Highways Division, Oahu District Baseyard without the sand. The loose sand shall become the property of the Contractor. Removal and hauling of portable concrete barrier and Inertial Barrier System shall be considered incidental to various contract items and will not be paid for separately.
- 6. Install Steady Burn Amber Lamps on portable concrete barrier @ 20.0' o.c. Installing, maintaining and changing batteries of the Portable Mounted Steady Burn Amber Lamps shall be considered incidental to State Furnished Portable Concrete Guardrail (Intermediate Panel).



Portable Concrete Barrier Traffic Flow e.p. 6" Typ. 1.0' 20:1 exist. median barrier Note: Numbers in Inertial Barrier System indicate weight x 100 lbs.

INERTIAL BARRIER SYSTEM DETAIL MEDIAN BARRIER UPGRADE INSTALLATION

Scale: 1" = 10'

MOANALUA FREEWAY TYPICAL SECTION
MEDIAN BARRIER UPGRADE CONSTRUCTION AREA

Not to Scale

LEGEND FOR AS-BUILT POSTINGS Squiggly line for as-built deletion Double line for as-built deletion Roadway Text for as-built posting

DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS & DETAIL

WORK ZONE CONSTRUCTION PLAN

WOANALUA FRWY, REPLACE GLARE SCREENS & GUARDRAILS
Aiea Interchange To Moanalua Stream Bridge
F.A. Proj. No. STP-H201(2) AND

INTERSTATE ROUTE H-1, REPLACE GLARE SCREENS
Aiea Heights Drive To Salt Lake Boulevard
F.A. Proj. No. IM-H1-1(231)

Scale: As Noted

Date: Nov. 1997

SHEET No. 3 OF 3 SHEETS

''AS-BUILT''

ADD. 6