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Q2	PLAN AND ELEVATION			
Q3	TYPICAL SECTIONS			
Q4	METAL GUARDRAIL TYPE 3 THRIE BEAM AND APPURTENANCES DETAILS			

<u>ABBREVIATIONS</u>

Bm.	Beam	Ftg.	Footing
Br.	Bridge	Jt.	Joint
¢	Center line	No.	Number
CI.	Clear	Rdwy.	Roadway
Conc.	Concrete	Ref.	Reference
Cont.	Continuous	Sht.	Sheet
Exist.	Existing	Term.	Terminal
Exp.	Expansion	Тур.	Typical
FF	Front Face	W/	with

SYMBOLS

Detail or section designation

Sheet number section is cut or detail section

Sheet number detail is drawn on FED. ROAD DIST. NO. STATE FED. AID PROJ. NO. FISCAL YEAR NO. SHEETS

HAWAII HAW. NH-036-1(16) 2006 29 36

GENERAL NOTES

DESIGN SPECIFICATIONS - AASHTO:

1. AASHTO LRFD Bridge Design Specifications, 3rd Edition, 2004, with all interim revisions.

MATERIALS:

1. Reinforced concrete:

Class A, unless otherwise noted.

2. Reinforcing steel:

ASTM A 615, Grade 60.

3. Admixture in concrete:

See Special Provisions

CONSTRUCTION METHODS:

- 1. Refer to Hawaii Standard Specifications for Road, Bridge and Public Works Construction, 1994 Edition and Special Provisions.
- 2. Except as noted otherwise, all dimensions are measured plumb.

REFERENCE:

1. Refer to Standard Plans for additional details and notes not covered by details and typical drawings.

GENERAL:

- 1. All items noted incidental will not be paid for separately.
- 2. The Contractor shall verify the locations of all existing utility lines and notify their respective owners before commencing with any work.
- 3. The Contractor shall verify all grades and dimensions in the field before commencing with any work.
- 4. The Contractor shall be solely responsible for the protection of adjacent property, utilities and existing and new structures from damage due to construction. Repairing any damage shall be at the Contractor's own expense, to the satisfaction of the Engineer. He shall conduct his work in such a manner and provide such temporary shoring or other measures as may be necessary to insure the safety of all concerned and to protect existing structures.



KALIALINUI BRIDGE

INDEX, GENERAL NOTES,

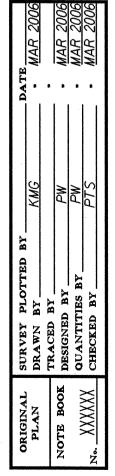
ABBREVIATIONS AND SYMBOL

HANA HIGHWAY RESURFACING
Dairy Road to Haleakala Hwy.

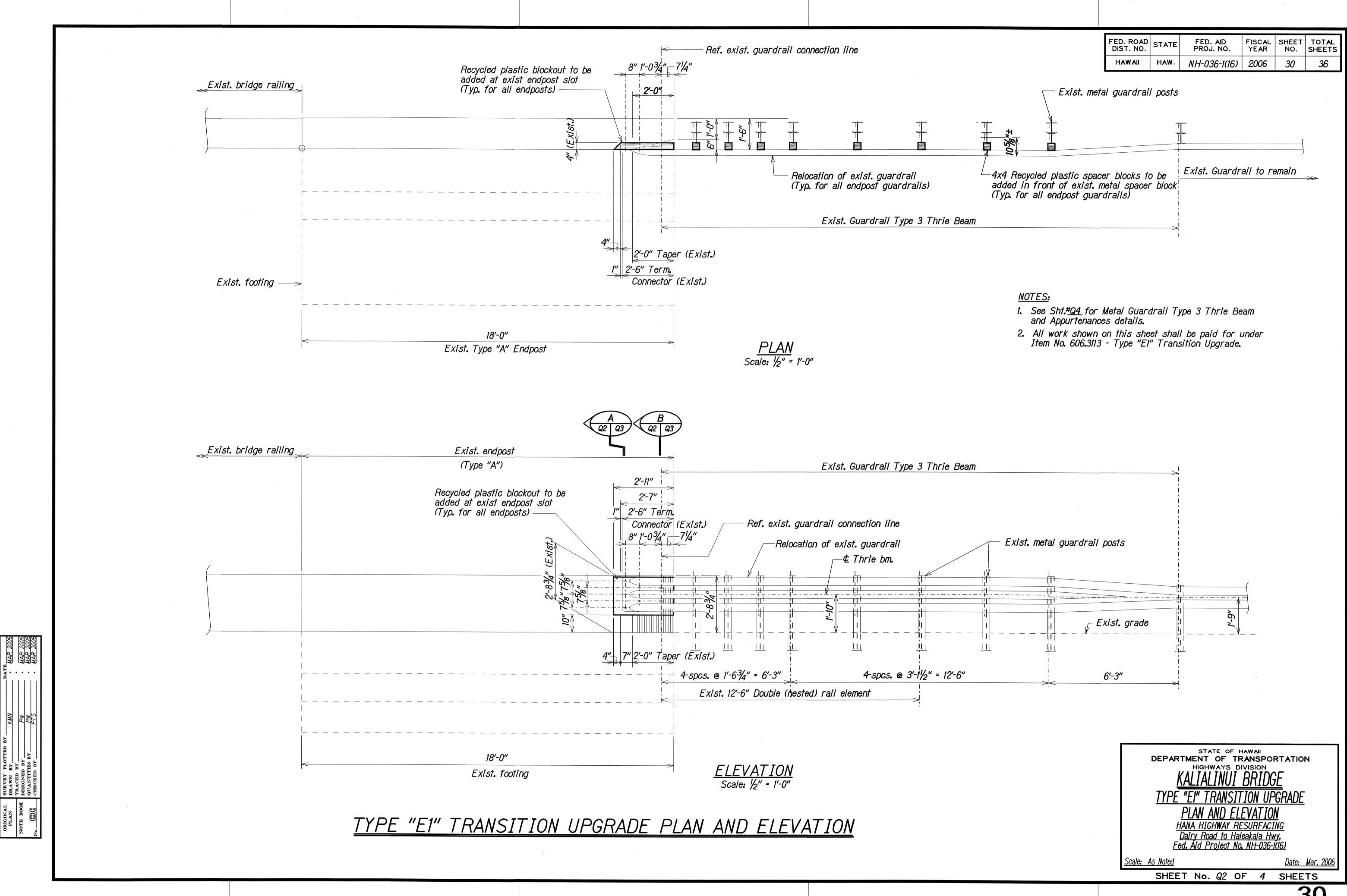
<u>Dairy Road to Haleakala Hwy.</u> <u>Fed. Aid Project No. NH-036-1(16)</u>

Scale: As Noted

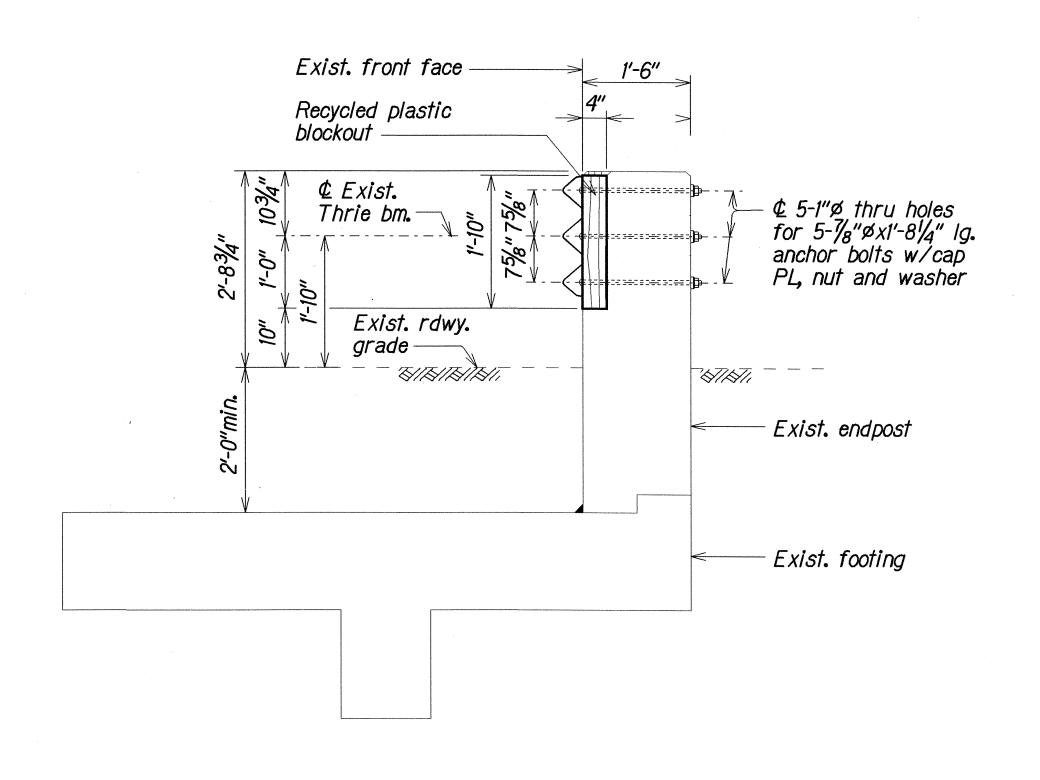
SHEET No. Q1 OF 4 SHEETS

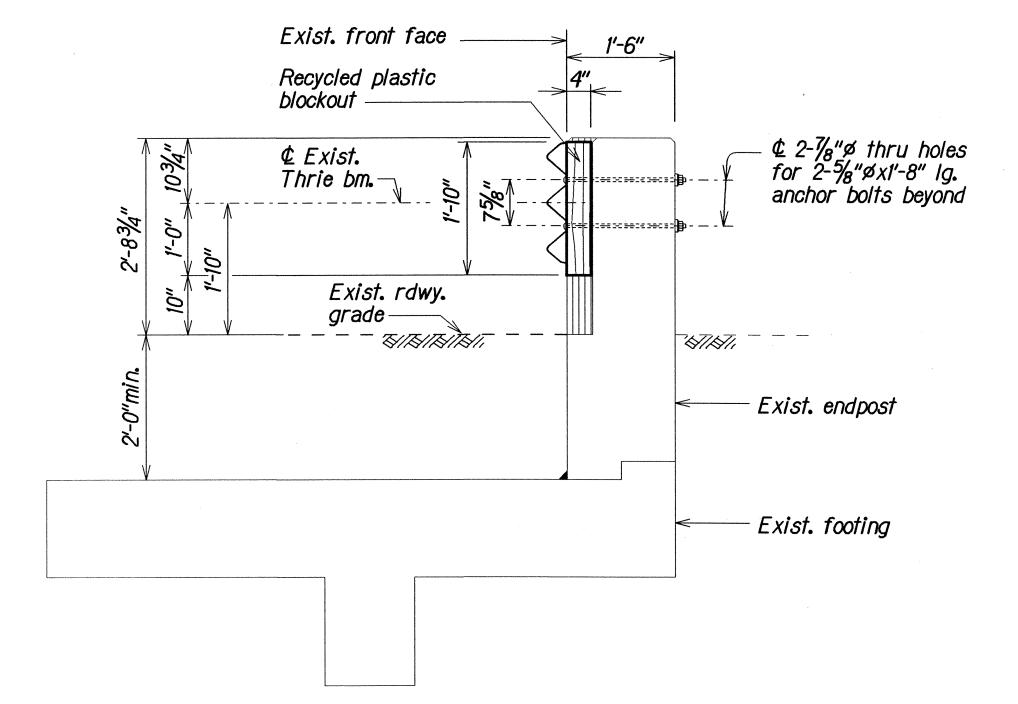


<u>Date: Mar. 2006</u>

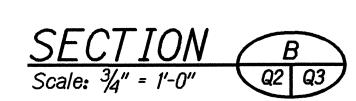


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL		TOTAL SHEETS
HAWAII	HAW.	NH-036-1(16)	2006	31	36

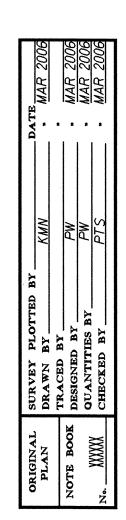




SECTION A
Scale: 3/4" = 1'-0" Q2 Q3



TYPICAL SECTIONS - TYPE "E1" TRANSITION UPGRADE DETAILS



DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KALIALINUI BRIDGE

TYPE "EI" TRANSITION UPGRADE

TYPICAL SECTIONS

HANA HIGHWAY RESURFACING
Dairy Road to Haleakala Hwy.
Fed. Aid Project No. NH-036-1(16)

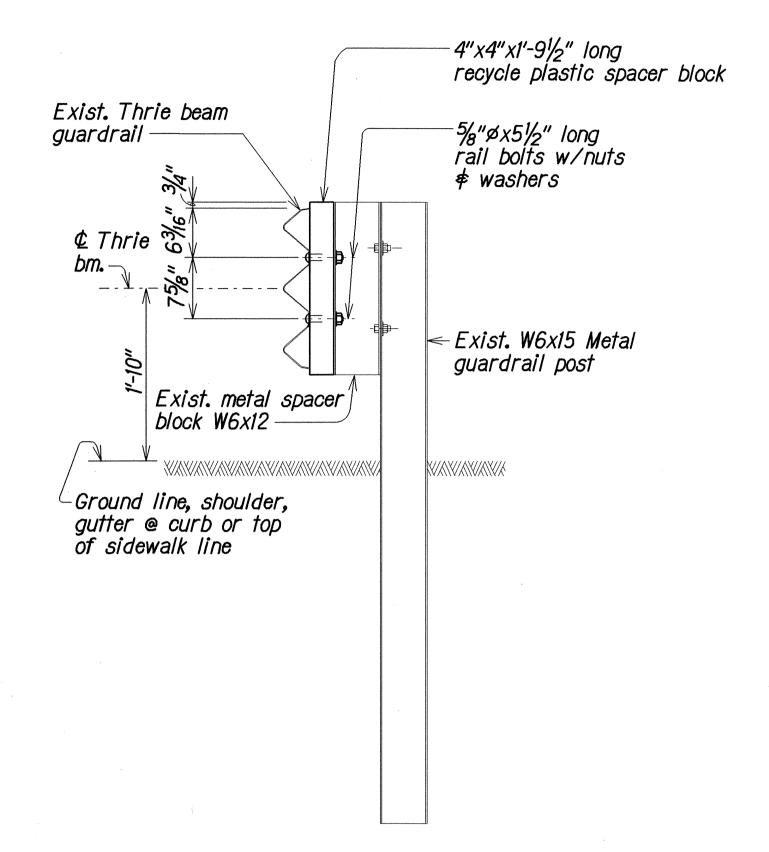
Scale: As Noted

Date: Mar. 2006

SHEET No. Q3 OF 4 SHEETS

31

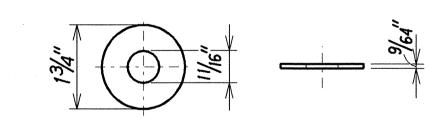
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-036-1(16)	2006	32	36



TYPICAL SECTION

METAL GUARDRAIL ON METAL POST
WITH METAL SPACER BLOCK
AND PLASTIC BLOCKOUT

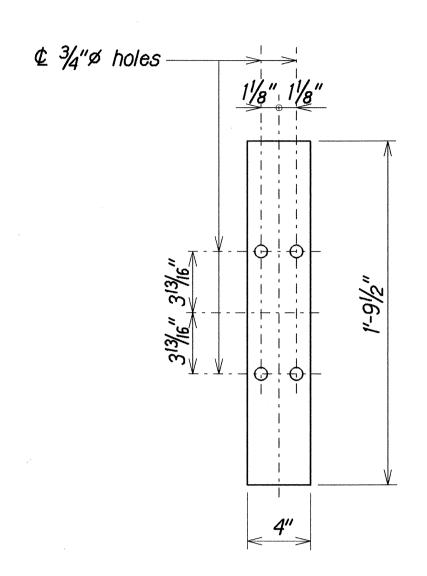
Scale: 1" = 1'-0"



MAR 2006 MAR 2006 MAR 2006 MAR 2006

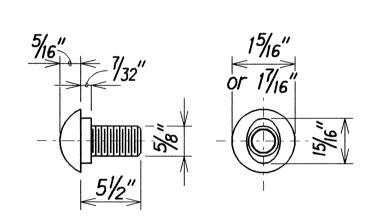
Scale: 6" = 1'-0"

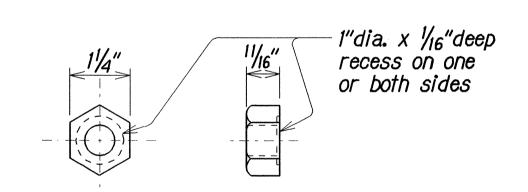
STEEL WASHER FOR 5/8" BOLT



RECYCLED PLASTIC SPACER BLOCK

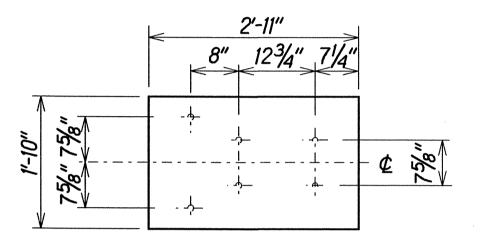
Not to scale



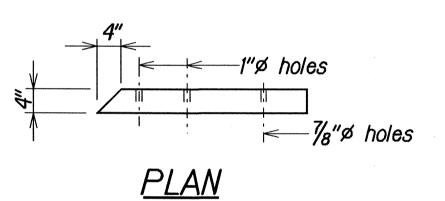


NOTE:

1. The work necessary to install plastic spacer blocks shall include all labor, materials, tools, equipment and incidentals necessary to complete the work and will not be paid for separately.

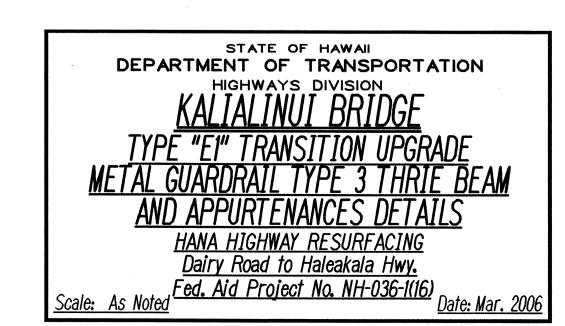


ELEVATION



RECYCLED PLASTIC BLOCKOUT Scale: 3/4" = 1'-0"

METAL GUARDRAIL TYPE 3 THRIE BEAM AND APPURTENANCES DETAILS



SHEET No. Q4 OF 4 SHEETS