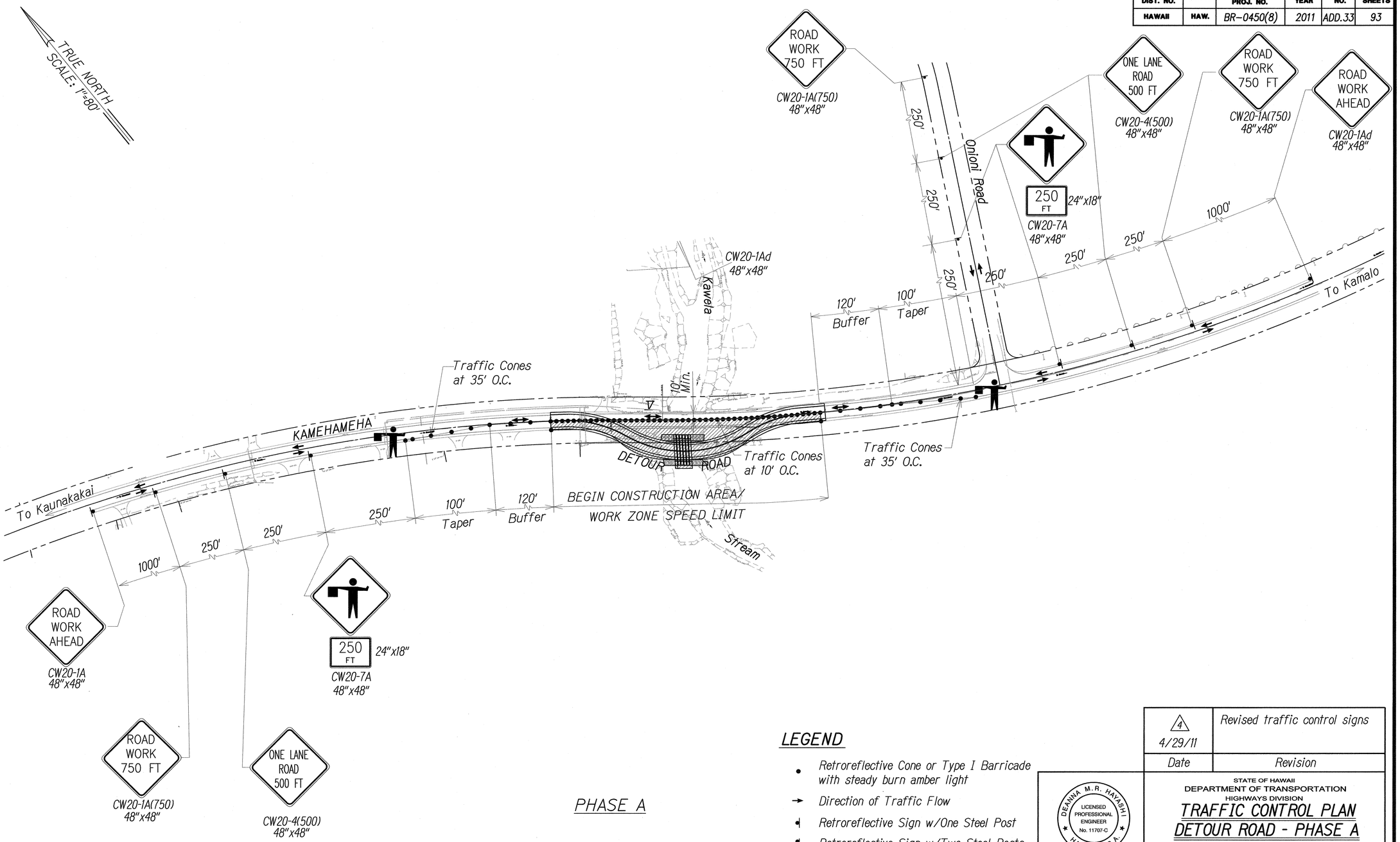
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0450(8)	2011	ADD.33	93



PHASE A

TRAFFIC CONTROL PLAN

SCALE: 1" = 80'

LEGEND

- Retroreflective Cone or Type I Barricade with steady burn amber light
- Direction of Traffic Flow
- Retroreflective Sign w/One Steel Post
- Retroreflective Sign w/Two Steel Posts
- Flagger/Police Officer
- Work Area

Date	Revision
4 4/29/11	Revised traffic control signs

DEANNA M.R. HAYASHI
LICENSED PROFESSIONAL ENGINEER
No. 11707-C
HAWAII, U.S.A.
EXP. 4/30/12
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
DETOUR ROAD - PHASE A

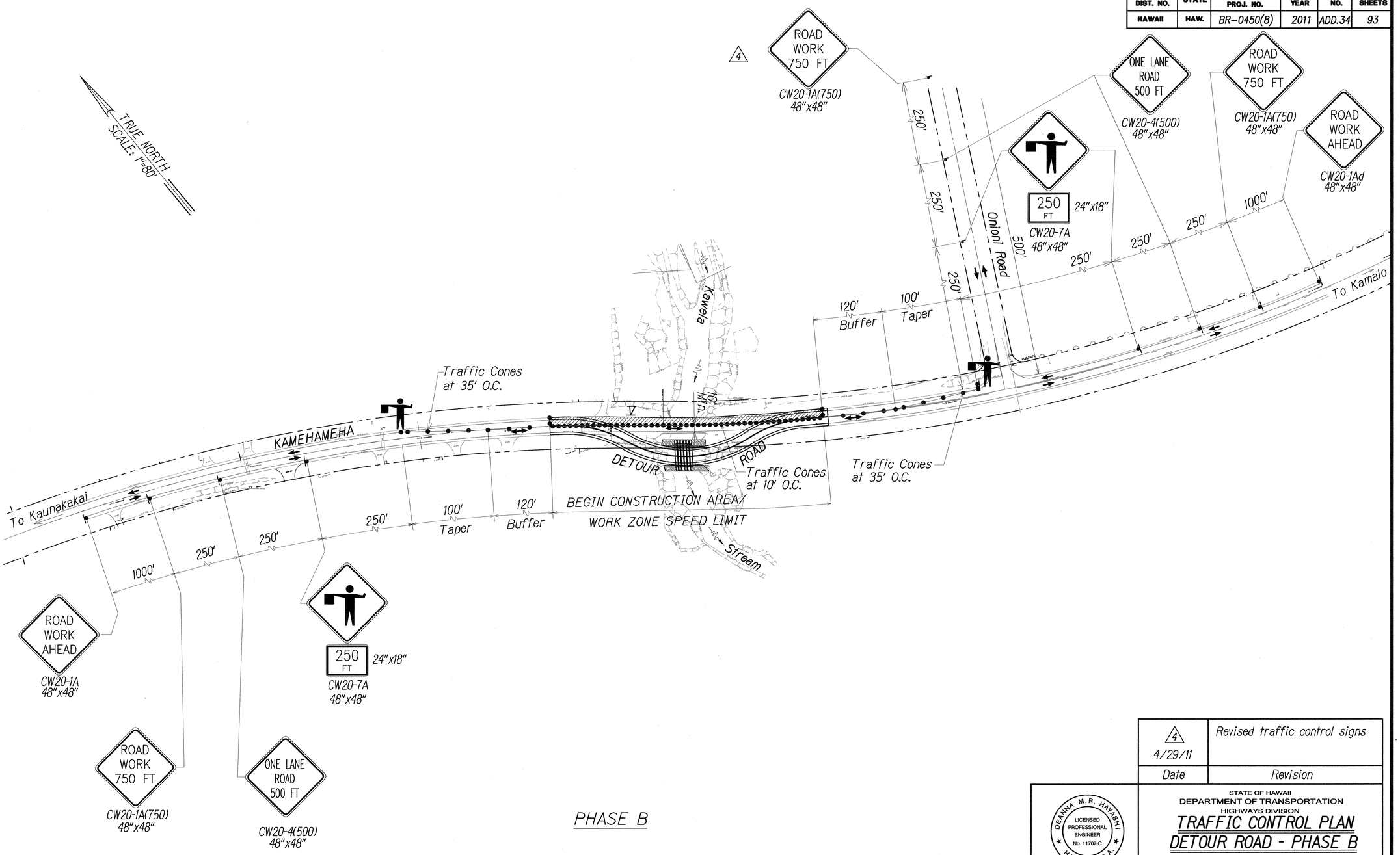
KAMEHAMEHA V HIGHWAY
Kawela Bridge Replacement
Federal Aid Project No. BR-0450(8)

Scale: AS NOTED Date: Oct. 2010

SHEET No. C3.08 OF 93 SHEETS

ADD. 33

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0450(8)	2011	ADD.34	93



PHASE B

TRAFFIC CONTROL PLAN

SCALE: 1" = 80'

4	Revised traffic control signs
4/29/11	
Date	Revision

DEANNA M.R. HAYASHI
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
DETOUR ROAD - PHASE B

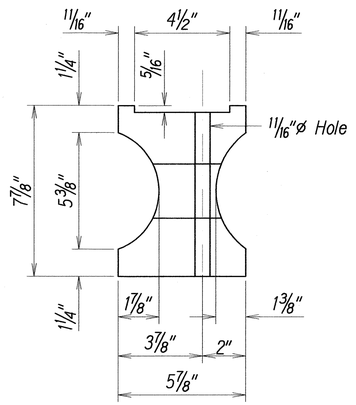
KAMEHAMEHA V HIGHWAY
Kawela Bridge Replacement
Federal Aid Project No. BR-0450(8)

Scale: AS NOTED Date: Oct. 2010

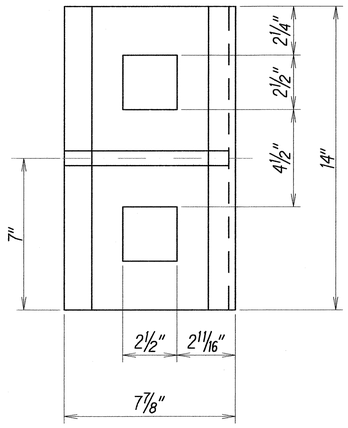
SHEET No. C3.09 OF 93 SHEETS

ADD. 34

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0450(8)	2011	ADD. 39 S-1	93

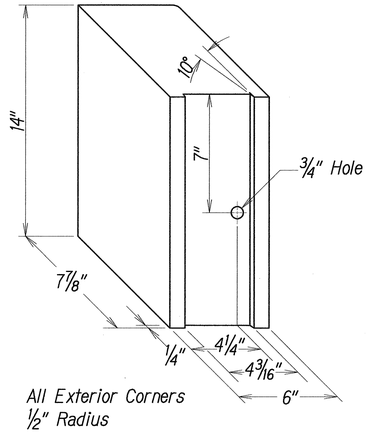


TOP

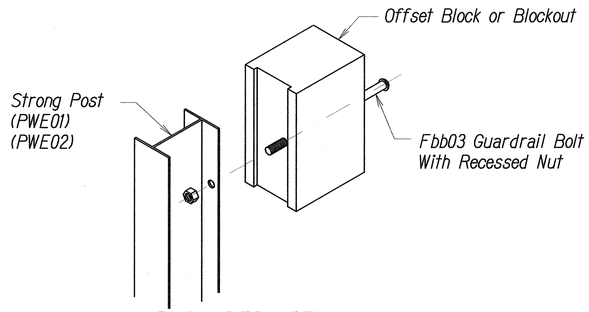


SIDE

RECYCLED PLASTIC BLOCKOUT (TYPE I)



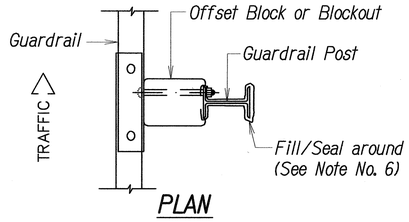
RECYCLED POLYETHYLENE OFFSET BLOCK (TYPE II)



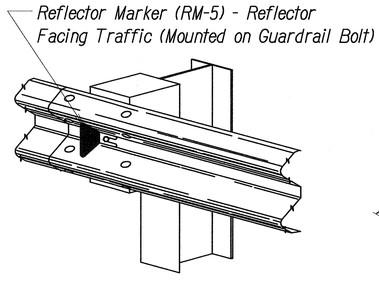
EXPLODED VIEW

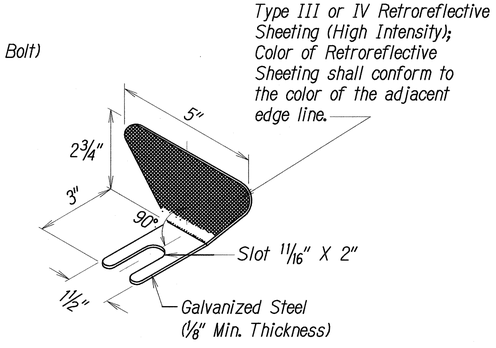
(RAIL AND WASHER NOT SHOWN)

STEEL POST AND BLOCK DETAIL

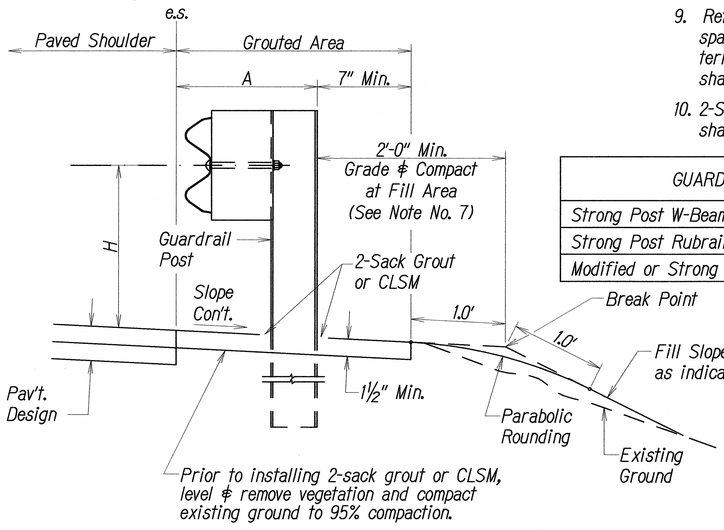


PLAN





REFLECTOR MARKER (RM-5) DETAIL AND TYPICAL INSTALLATION



ELEVATION

TYPICAL GUARDRAIL INSTALLATION

General Notes:

1. All hardware, posts and fasteners shall be hot-dip zinc coated galvanized after fabrication. No punching, drilling or cutting will be permitted after galvanizing.
2. Where conditions require, special post lengths in increments of 6 inches may be specified.
3. All fasteners, posts, and rail elements (I.E. FBB03, PWE01, RWM02B, etc.) shall conform to the latest edition and amendments of "A Guide to Standardized Highway Barrier Rail Hardware", a report prepared and approved by the AASHTO-AGC-ARTBA Joint Cooperative Committee, Subcommittee On New Highway Materials, Task Force 13 Report. Dimensions of fastners, posts and rail elements have been converted from metric units into their present form.
4. The Recycled Plastic Block or Offset Block shall be approved by the State.
5. All new guardrail systems (system consists of total length of guardrail including both end treatments) shall include the additional paved area.
6. After the guardrail posts are installed in the paved area, the Contractor shall fill/seal around each guardrail post and all cracks in the paved area caused during the guardrail post installation. If required by the Inspector/Engineer, The Contractor shall tamper the paved area around the guardrail post prior to filling/sealing. All costs associated with this work shall not be paid for separately, but shall be considered incidental to the various guardrail items.
7. When standards for the fill slope area cannot be met, a site specific, engineer approved design may be used.
8. New A.C. pavement at guardrails shall extend 6 feet longitudinally beyond terminal ends.
9. Reflector Markers (RM-5) mounted on guardrails shall be spaced every 25 feet. RM-5's shall not be installed on terminal sections. Furnishing and installing of each RM-5 shall be considered incidental to the adjacent guardrail system.
10. 2-Sack Grout and Controlled Low Strength Material (CLSM) shall be considered incidental to the guardrail.

GUARDRAIL TYPE	DIMENSION	
	H	A
Strong Post W-Beam	1'-9 7/8"	1'-6"
Strong Post Rubrail (W-Beam)	2'-0"	1'-6"
Modified or Strong Post Thrie Beam	2'-0"	2'-0"

4	New Sheet
5/2/11	
Date	Revision

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EXP. 4/30/12

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

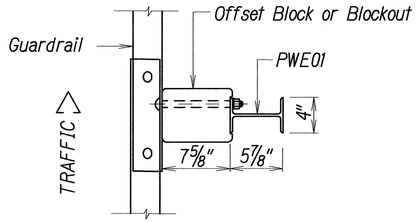
GUARDRAIL DETAILS & NOTES

KAMEHAMEHA V HIGHWAY
Kawela Bridge Replacement
Federal Aid Project No. BR-0450(8)

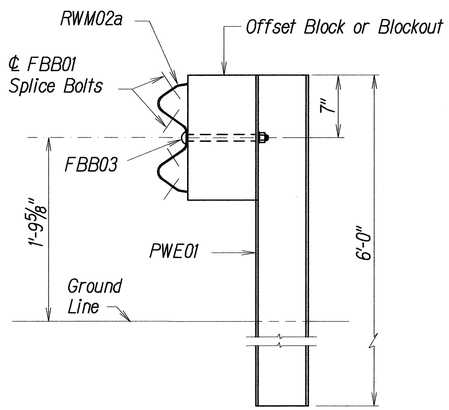
Scale: AS NOTED **Date:** Oct. 2010

SHEET No. C4.05a OF 93 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0450(8)	2011	ADD. 39 S-2	93



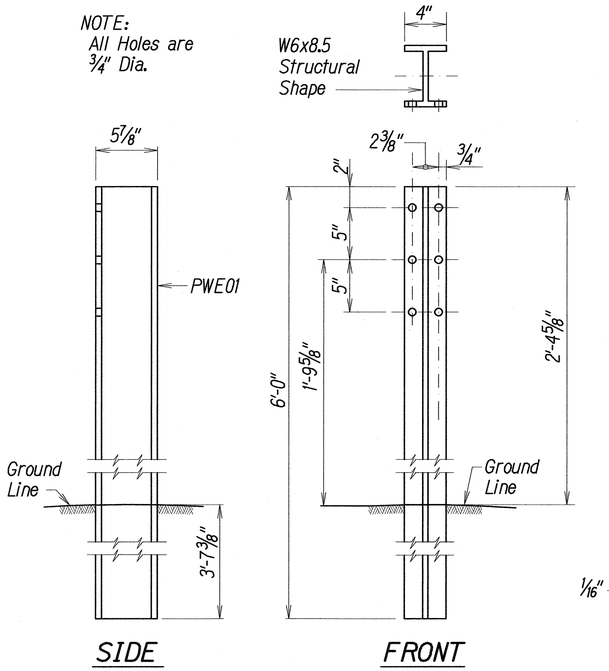
PLAN



ELEVATION

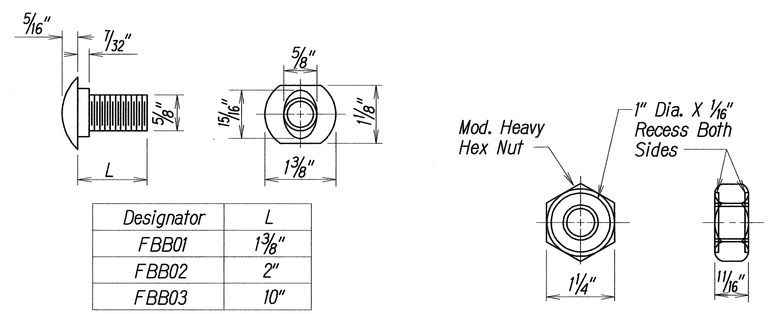
STRONG POST W-BEAM GUARDRAIL (SGR04a)

NOTE: All Holes are 3/4" Dia.



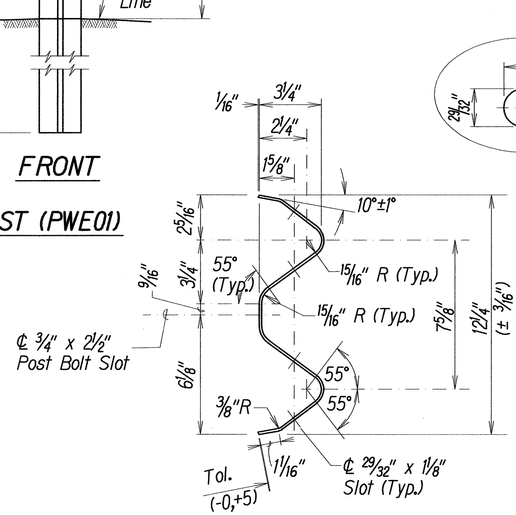
SIDE FRONT

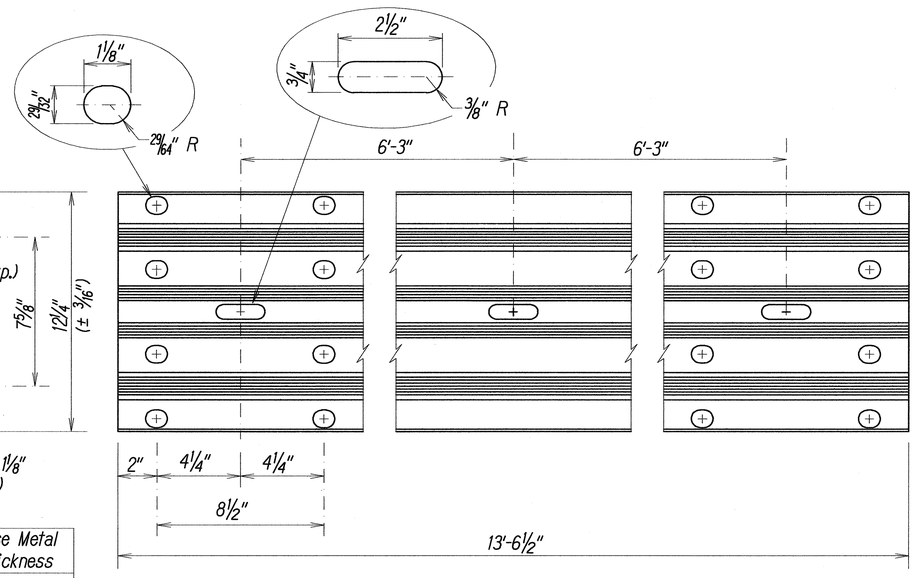
W-BEAM STRONG POST (PWE01)



Designator	L
FBB01	1 3/8"
FBB02	2"
FBB03	10"

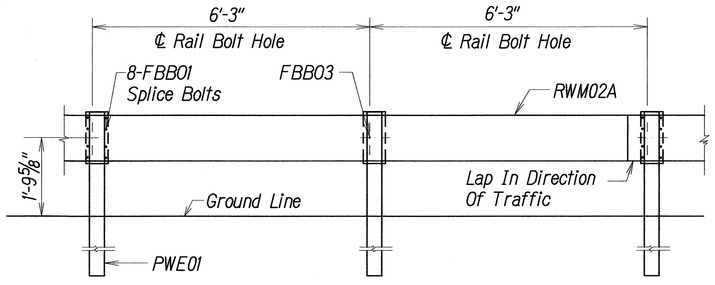
GUARDRAIL BOLTS AND RECESSED NUT





Designator	Base Metal Thickness
RWM02a	12 Gauge

2 SPACE W-BEAM GUARDRAIL (RWM02A)



ELEVATION

STRONG POST W-BEAM GUARDRAIL WITH RECYCLED OFFSET BLOCK OR PLASTIC BLOCKOUT

4	New Sheet
5/2/11	
Date	Revision

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STRONG POST W-BEAM GUARDRAIL

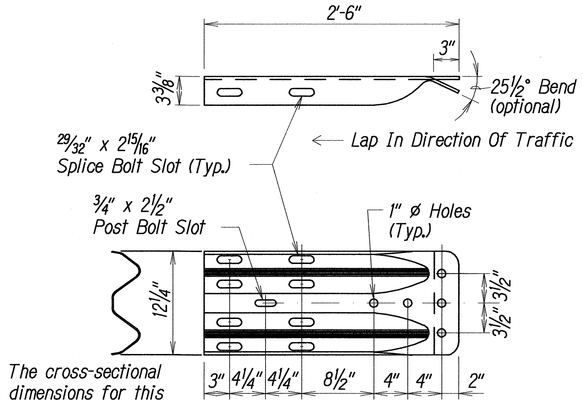
KAMEHAMEHA V HIGHWAY
Kawela Bridge Replacement
Federal Aid Project No. BR-0450(8)

Scale: AS NOTED **Date:** Oct. 2010

SHEET No. C4.05b OF 93 SHEETS

ADD. 39 S-2

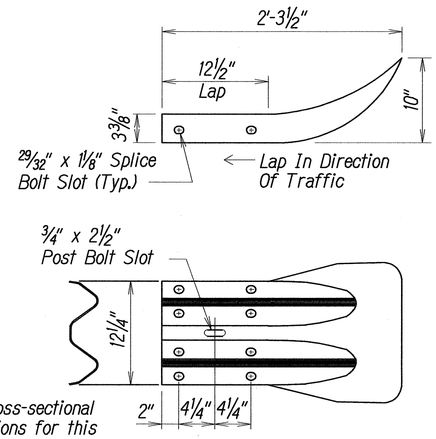
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0450(8)	2011	ADD. 39 S-3	93



The cross-sectional dimensions for this part are to fit over part RWM02A on the approach end and under part RWM02A on the trailing end.

Designator	Base Metal Thickness
RWE02b	10 Gauge

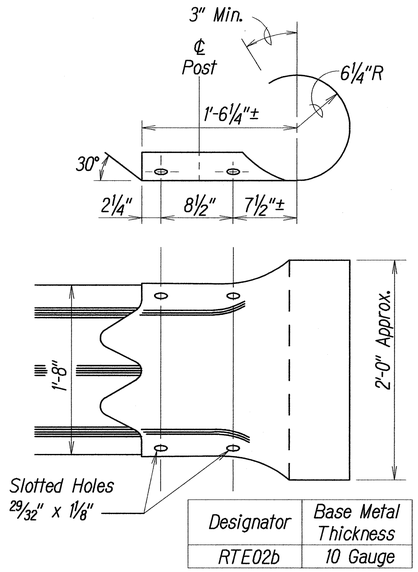
W-BEAM TERMINAL CONNECTOR (RWE02B)



The cross-sectional dimensions for this part are to fit over part RWM02A on the approach end and under part RWM02A on the trailing end.

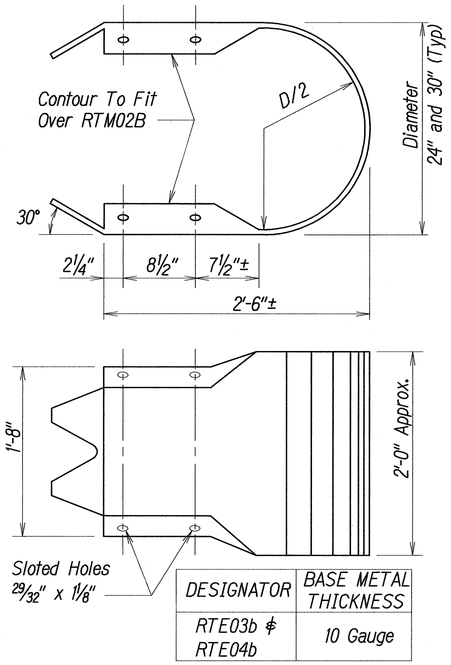
DESIGNATOR	BASE METAL THICKNESS
RWE01a	12 Gauge

W-BEAM END SECTION (FLARED RWE01A)



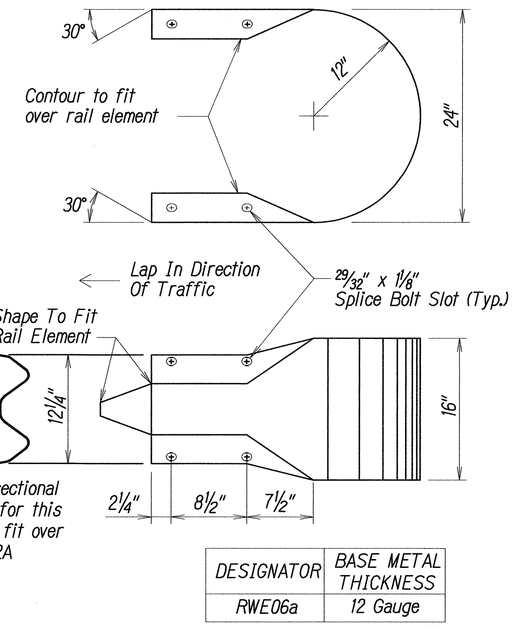
Designator	Base Metal Thickness
RTE02b	10 Gauge

THRIE-BEAM SECTION (ROUNDED) (RTE02B)



DESIGNATOR	BASE METAL THICKNESS
RTE03b & RTE04b	10 Gauge

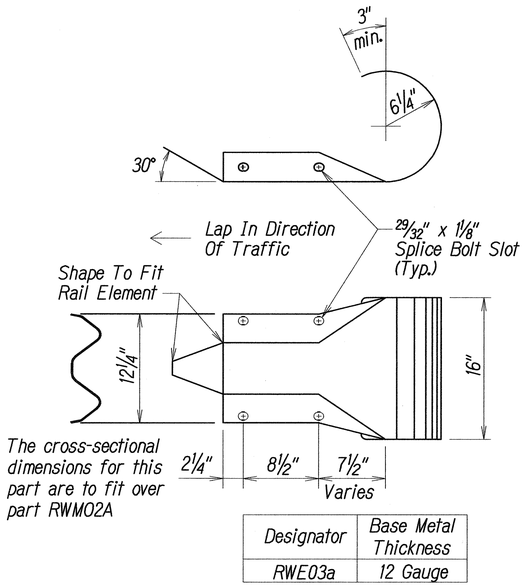
THRIE-BEAM END SECTION (BUFFER RTE03B or RTE04B)



The cross-sectional dimensions for this part are to fit over part RWM02A

DESIGNATOR	BASE METAL THICKNESS
RWE06a	12 Gauge

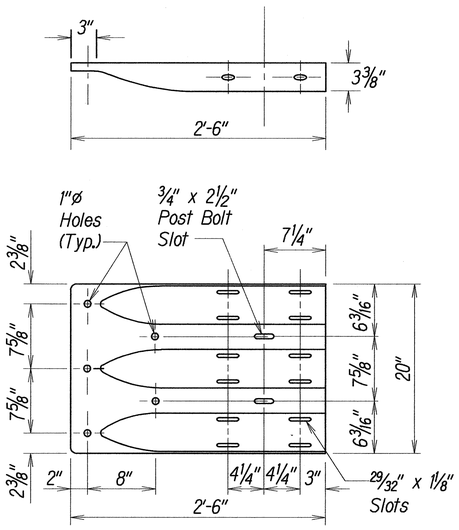
W-BEAM END SECTION (BUFFER RWE06A)



The cross-sectional dimensions for this part are to fit over part RWM02A

Designator	Base Metal Thickness
RWE03a	12 Gauge

W-BEAM END SECTION (ROUNDED RWE03A)



Designator	Base Metal Thickness
RTE01b	10 Gauge

THRIE-BEAM TERMINAL CONNECTOR (RTE01B)

Date	Revision
4 5/2/11	New Sheet

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GUARDRAIL TERMINAL CONNECTORS & END SECTIONS

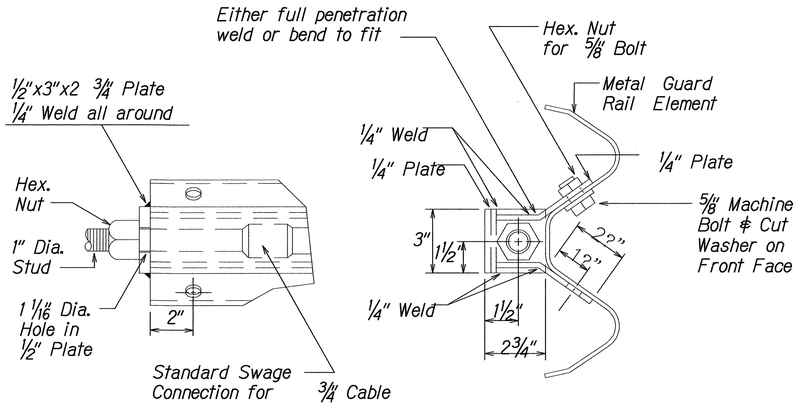
KAMEHAMEHA V HIGHWAY
Kawela Bridge Replacement
Federal Aid Project No. BR-0450(8)

Scale: AS NOTED **Date:** Oct. 2010

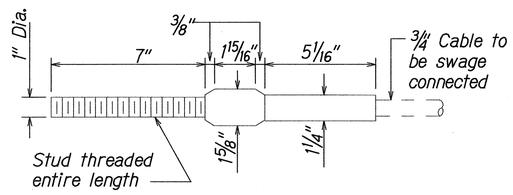
SHEET No. C4.05e OF 93 SHEETS

ADD. 39 S-3

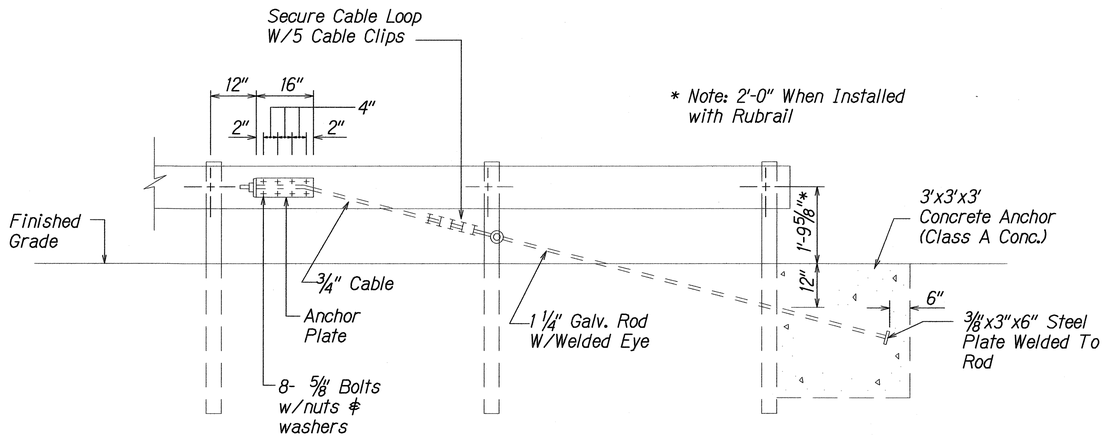
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0450(8)	2011	ADD. 39 S-4	93



ANCHOR PLATE DETAILS

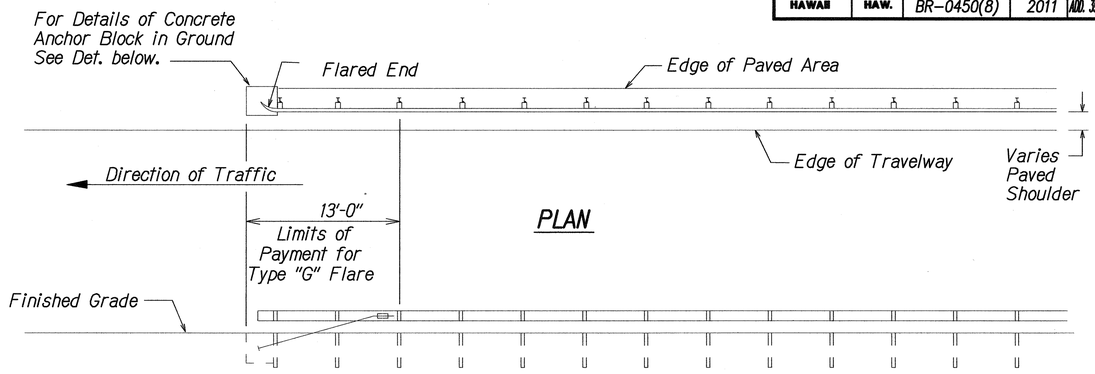


STANDARD SWAGED FITTING AND STUD



ANCHOR BLOCK DETAIL

1. Concrete, G.R.P., excavation, anchor rod and miscellaneous appurtenances necessary to anchor the guardrail ends shall be incidental to metal guardrail.



ELEVATION

TYPE "G" FLARE END TERMINAL

NOTE:

Type "G" Modified End Terminal is a site specific end terminal with a taper and radial termini. A site specific detailed drawing is required for all Type "G" Modified End Terminal and must receive Engineer's approval.

The taper (flare rate) of the guardrail shall follow the latest edition of AASHTO'S Roadside Design Guide (currently, Table 5.6 - Suggested Flare Rate for Barrier Design, page 5-21, Jan. 1996 edition).

The radius of the radial termini is an Engineer's judgement based on the site evaluation. The Engineer shall consider safety (minimize the spearing & blunt end situation); degree and potential seriousness of the hazard; bicycle and pedestrian accessibility; maintenance equipment accessibility; Right-of-Way availability; the smallest radii the metal w-beam/thrie-beam railing can be constructed (check with supplier/contractor); posted speed limit; angle of vehicle impact; and aesthetics when designing the Type "G" Modified End Terminal.

During construction, the Contractor shall layout the proposed Type "G" Modified End Terminal and receive approval from the Construction Engineer prior to installation.

4	New Sheet
5/2/11	
Date	Revision

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

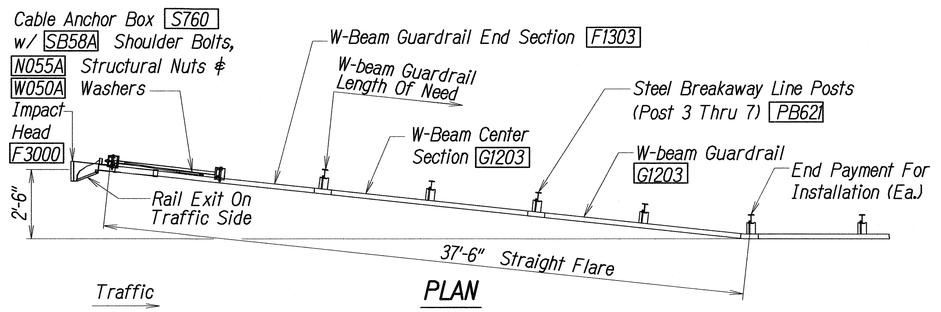
ANCHOR BLOCK DETAILS

KAMEHAMEHA V HIGHWAY
Kawela Bridge Replacement
Federal Aid Project No. BR-0450(8)

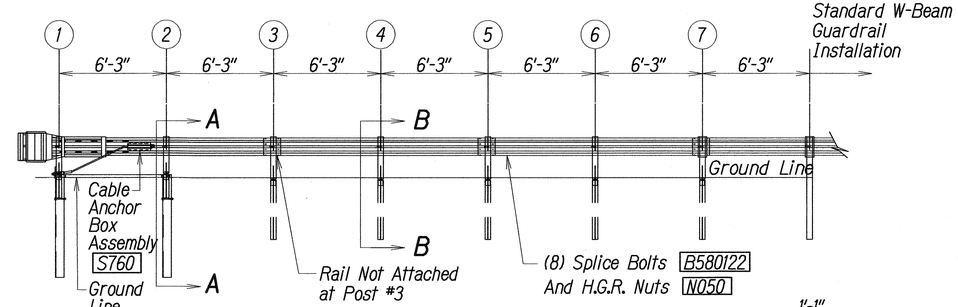
Scale: AS NOTED **Date:** Oct. 2010

SHEET No. C4.05j **OF** 93 **SHEETS**

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0450(8)	2011	ADD. 39 S-5	93

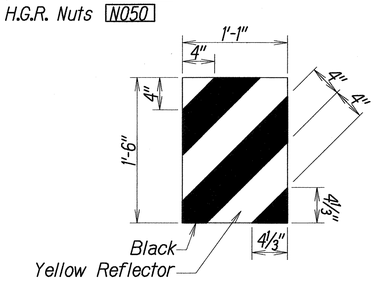


PLAN



ELEVATION

IMPACT HEAD CONNECTING DETAIL



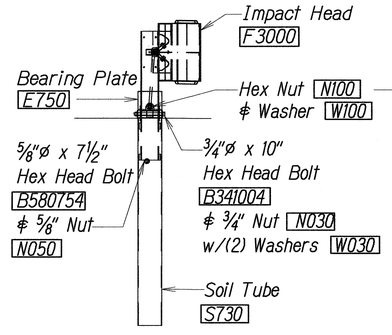
IHRM(R)
IMPACT HEAD REFLECTOR MARKER INSERT DETAIL

GENERAL NOTES

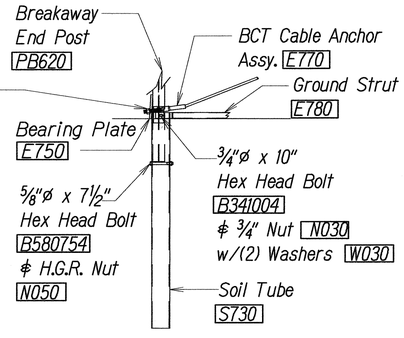
1. Breakaway Steel Posts are required with the Fleat Terminal.
2. All bolts, nuts, cable assemblies, cable anchors and bearing plates shall be galvanized.
3. The Soil Tubes shall not protrude more than 4" above ground (measured along a 5' cord). Site grading may be necessary to meet this requirement.
4. The Soil Tubes may be driven with an approved driving head. Soil Tubes shall not be driven with the post in the tube. If the tubes are placed in drilled holes, the backfill material must be satisfactorily compacted to prevent settlement.
5. When rock is encountered during excavation, a 12" dia. post hole, 20" deep may be used if approved by the Engineer. Granular material will be placed in the bottom of the hole approx. 2 ½" deep to provide drainage. The Soil Tubes will be field cut to length, placed in the hole and backfilled with adequately compacted material excavated from the hole.
6. The Breakaway Cable Assembly must be taut. A locking device, (vice grips or channel lock pliers) should be used to prevent the cable from twisting when tightening nuts.
7. (R) or (I) indicates right or left Impact Head Reflector Marker (IHRM). Providing and installing of IHRM shall be considered incidental to end treatment.
8. The stripes for IHRM shall slope downward at an angle of 45° towards the side of the end treatment that traffic is to pass.

Item No.	Qty.	Bill Of Materials
F3000	1	Impact Head
F1303	1	W-beam Guardrail End Section, 12 Ga.
G1203	2	W-beam Guardrail, 12 Ga.
S730	2	*foundation Soil Tube, 6" X 8" X 72"
E750	1	Bearing Plate
S760	1	Cable Anchor Box
E770	1	Bct Cable Anchor Assembly
E780	1	Ground Strut
Pb620	2	Steel Breakaway End Post
Pb621	5	Steel Breakaway Line Post
	5	Recycled Plastic Blockout or Offset Block
	1	Impact Head Reflector Marker - IHRM(R) Or (I)
		Hardware
B580122	25	5/8" Dia. X 1¼" Splice Bolt, Post #2
B580754	2	5/8" Dia. X 7½" Hex Bolt
B341004	2	¾" Dia. X 10" Hex Bolt
B581002	5	5/8" Dia. X 10" H.G.R. Bolt (post 3 Thru 7)
N050	32	5/8" Dia. H.G.R. Nut (splice 24, Soil Tubes 2, Post 2 Thru 7, 6)
N030	2	¾" Dia. Hex Nut
W050	6	H.G.R. Washer
W030	4	¾" ID Washer
N100	2	1" Anchor Cable Hex Nut
W100	2	1" Anchor Cable Washer
B140404	2	¼" X 4" Hex Bolt
N014	2	¼" Hex Nut
W014	4	¼" Washer
Sb58a	8	Cable Anchor Box Shoulder Bolt
N055a	8	½" A325 Structural Nut
W050a	16	1 1/16" OD X 3/16" ID A325 Str. Washer

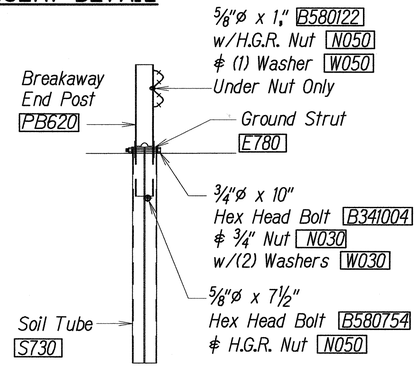
Foundation Tube Options For Posts 1 & 2
*6'-0" Split Foundation Tubes S730
*6'-0" Solid Foundation Tubes E731
*5'-0" Foundation Tubes S735 W/soil Plates Sp600
*4'-6" Foundation Tubes E735 W/soil Plates Sp600



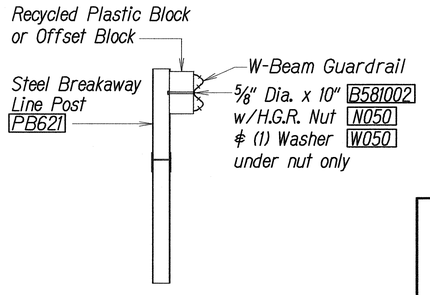
FRONT VIEW OF POST 1



PARTIAL VIEW OF POST 1



SECTION A - A
At Post #2



SECTION B - B
(Typical @ Post 3 - 7)
Note: Rail Not Bolted @ Post #3

4	New Sheet
5/2/11	
Date	Revision

DEANNA M.R. HAYASHI
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EXP. 4/30/12
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

FLEAT-350 FLARED ENERGY ABSORBING TERMINAL

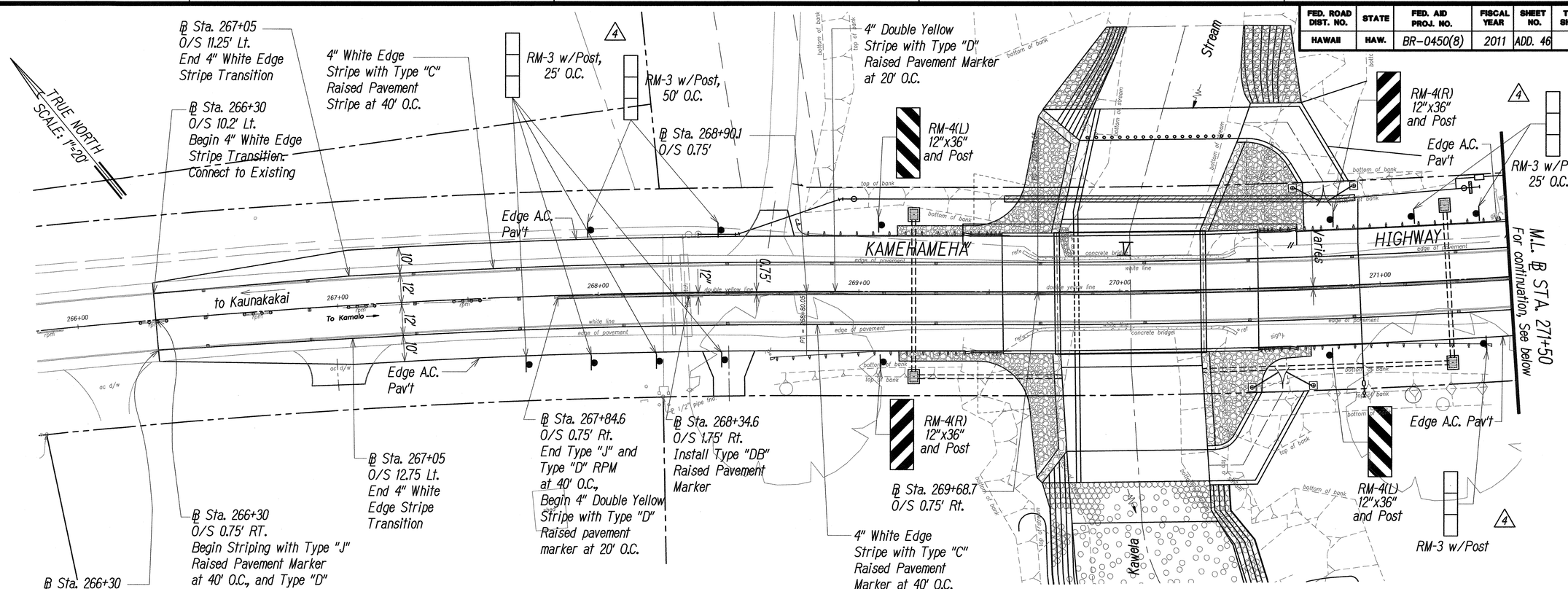
KAMEHAMEHA V HIGHWAY
Kawela Bridge Replacement
Federal Aid Project No. BR-0450(8)

Scale: AS NOTED **Date:** Oct. 2010

SHEET No. C4.05j OF 93 SHEETS

ADD. 39 S-5

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0450(8)	2011	ADD. 46	93



Note:
Refer to C3.06 for Striping Legend and Notes.

4	Revised signage and striping width
5/3/11	
Date	Revision

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STRIPING AND SIGNAGE PLAN

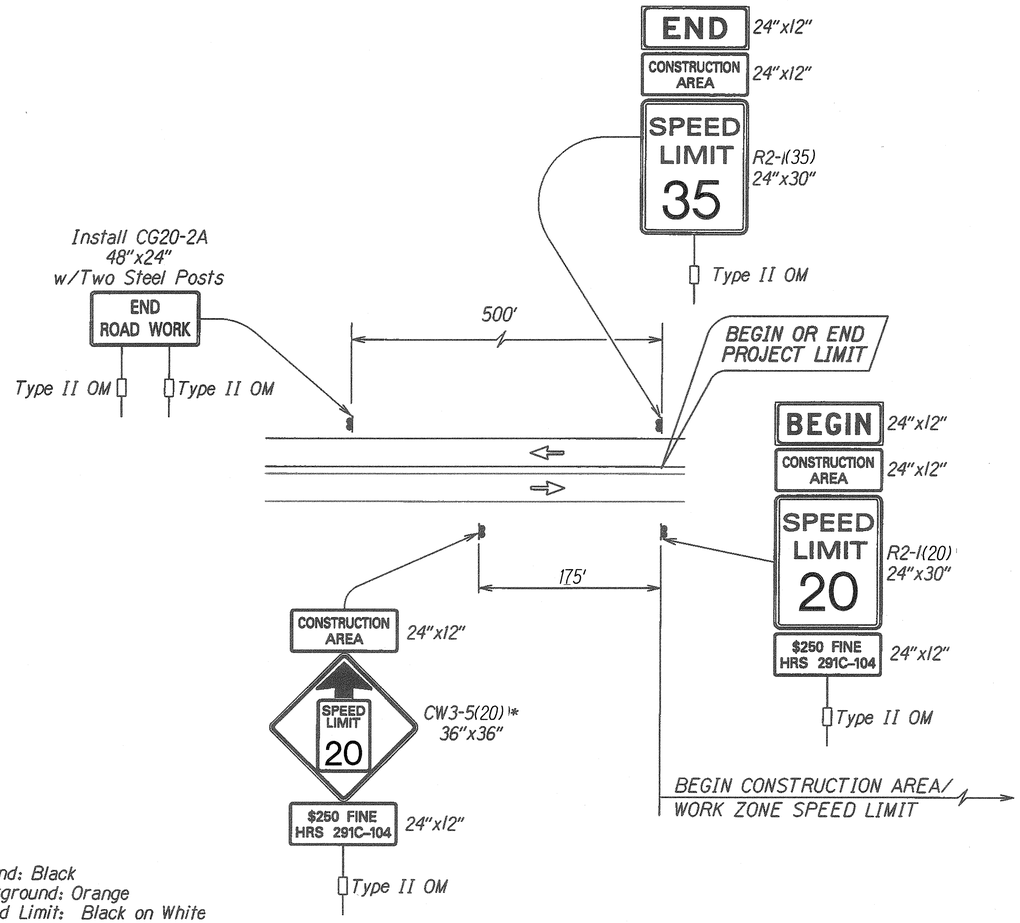
KAMEHAMEHA V HIGHWAY
Kawela Bridge Replacement
Federal Aid Project No. BR-0450(8)

Scale: AS NOTED **Date:** Oct. 2010

SHEET No. C4.12 OF 93 SHEETS

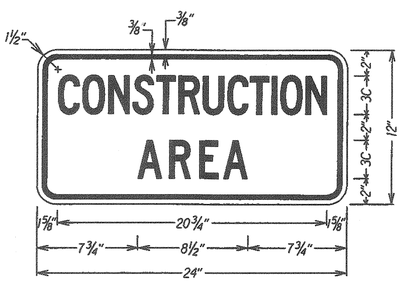
ADD. 46

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0450(8)	2011	ADD. 48 S-1	93

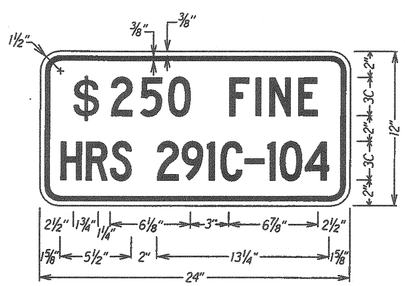


*Note:
Legend: Black
Background: Orange
Speed Limit: Black on White

TYPICAL DETAIL FOR CONSTRUCTION SIGNS ON TWO LANE OR MULTILANE UNDIVIDED LOW SPEED HIGHWAY



LEGEND: BLACK
BACKGROUND: ORANGE



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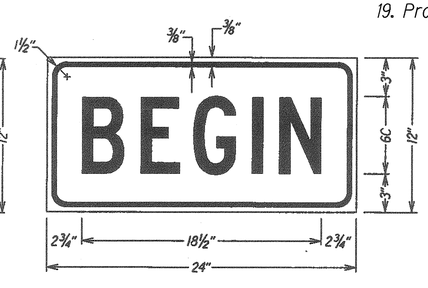
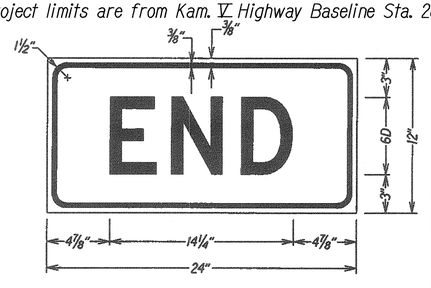
BACKGROUND: WHITE



LEGEND: BLACK
BACKGROUND: ORANGE



LEGEND: BLACK
BACKGROUND: ORANGE

Traffic Control Plan Notes:

1. Any requests for adjustments to the Traffic Control Plans shall be submitted in writing and approved by the Engineer. The Contractor's attention is directed to Subsection 108.08 - Liquidated Damages for Failure to Complete the Work or Portions of the Work on Time of the Special Provisions.
2. Relocation and/or removal of temporary signs, posts and portable concrete barriers used for Traffic Control shall be considered incidental to their respective contract items.
3. All temporary signs and delineators for the purposes of Traffic Control shall become the property of the Contractor at the completion of the project.
4. The Contractor shall use ground anchorage steel pins for Portable Concrete Barriers.
5. Portable concrete barrier panels not in use during construction work shall not be stockpiled or otherwise stored within the highway rights-of-way except at locations approved by the Engineer.
6. The location of pavement markings and signs, delineators and portable concrete guardrail panels used in Traffic Control Plans shall be as shown on the plans and/or as determined in the field by the Engineer.
7. The Contractor shall periodically wash down signs, delineators and portable concrete barriers called for in the Traffic Control Plans deemed necessary by the Engineer. This work shall be considered incidental to the various contract items and no payment will be made therefore.
8. Damage to signs, temporary pavement markers, delineators, barricades, sand barrels, lamps and portable concrete barriers caused by the public shall be repaired or replaced by the Contractor as soon as possible or as directed by the Engineer. This work shall be paid for under Item No. 645.0200 Police Officers and/or Additional Traffic Control Devices. Damage caused due to the Contractor's action shall be repaired or replaced at the Contractor's expense.
9. Work required in the Traffic Control Plans will be paid under applicable contract items or as otherwise specified herein.
10. All other traffic control work shall be in accordance with Section 645 - Traffic Control Work required for lane closures during the working day will not be paid for but shall be considered incidental to various contract items. Advance Construction Warning Signs as required under Section 645 of the Special Provisions shall be installed on all approaches to construction areas including on-ramps. This work shall be considered incidental to the various contract items.
11. The Type II Barricades with steady burn amber lamp used during Traffic Control shall be considered incidental to the various contract items.
12. This Work Zone Sign Plan is intended for use on long-term stationary work zones/construction phases (3 days or more). All work zones or construction phases less than 3 days duration will use Traffic Control Plans shown in Section 645 of the Special Provisions.
13. All existing regulatory speed limit signs with posts within the work zone/project limits shall be removed and replaced with work zone speed limit sign assemblies (R2-1(20) and CW3-5(20) with "CONSTRUCTION AREA" and "$250 FINE HRS 291C-104" Supplemental Signs).
14. Construction sign assemblies shall be installed on both the approaching and trailing ends of each work zone as shown on this plan.
15. Each construction warning sign shall have a minimum of two (2) Type II OM. Each work zone speed limit assembly shall have a minimum of one (1) Type II OM. Installation of each Type II OM shall be considered incidental to Item No. 621.7100, Construction Signs and Posts.
16. Upon the completion of all physical work or as directed by the Engineer, all construction signs and work zone speed limit assemblies shall be removed. All speed limit signs and posts that were existing at the start of the project within the work zone/project limits shall be restored back to their original locations and configurations.
17. Placement of construction signs shall not obstruct the path of pedestrians and bicyclists.
18. The removal and restoration of existing regulatory speed limit signs with new posts along with the installation, maintenance and removal of work zone speed limit sign assemblies shall be considered incidental to Item No. 621.7100, Construction Sign with Posts.
19. Project limits are from Kam. V Highway Baseline Sta. 266+30 to 273+80.

Date	Revision
4 4/29/11	New sheet

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

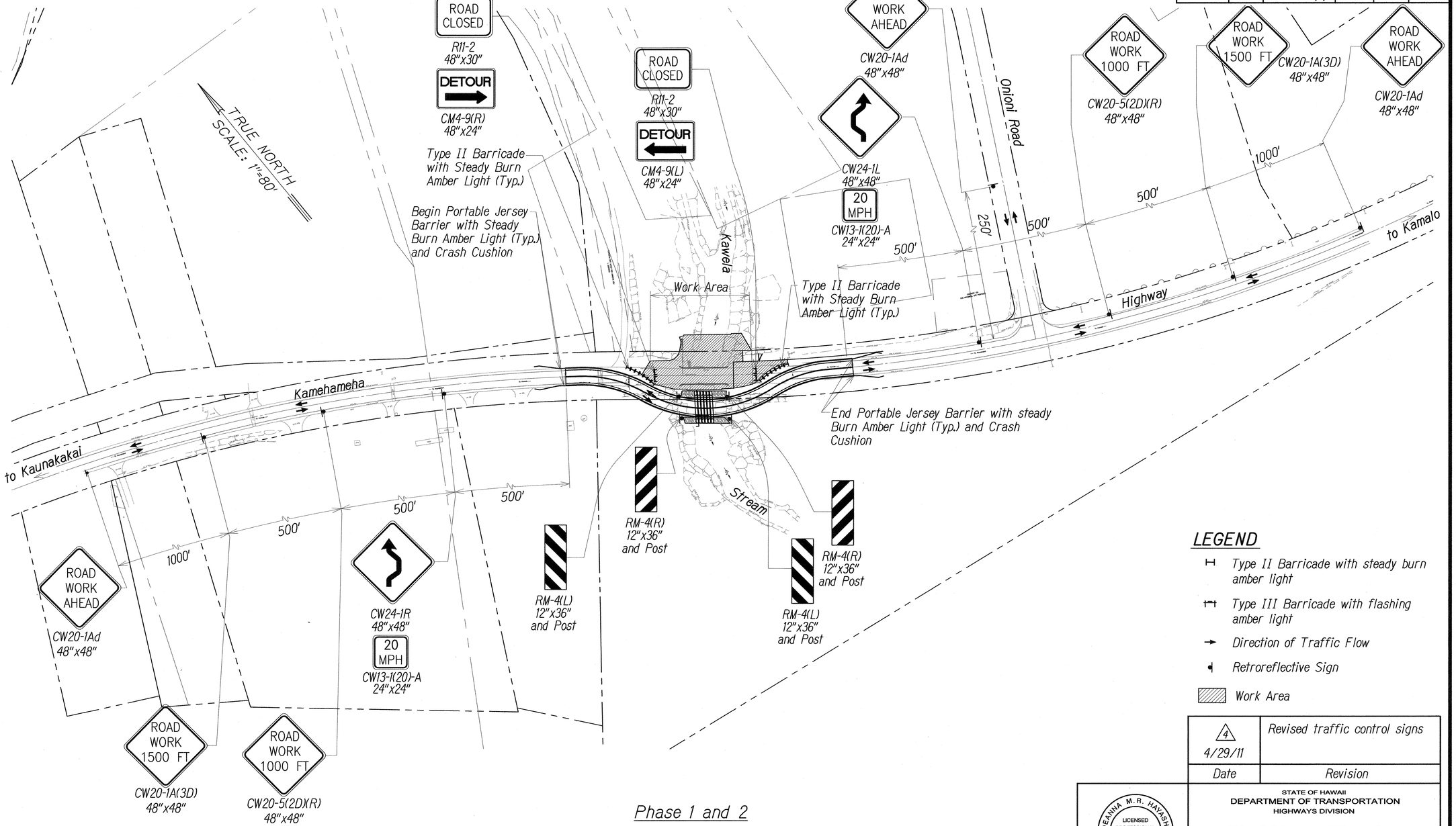
TRAFFIC CONTROL PLAN

KAMEHAMEHA V HIGHWAY
Kawela Bridge Replacement
Federal Aid Project No. BR-0450(8)

Scale: AS NOTED Date: Oct. 2010

SHEET No. C4.14 OF 93 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0450(8)	2011	ADD. 48	93



Phase 1 and 2

TRAFFIC CONTROL PLAN

SCALE: 1" = 80'

LEGEND

- Type II Barricade with steady burn amber light
- Type III Barricade with flashing amber light
- Direction of Traffic Flow
- Retroreflective Sign
- Work Area

Date	Revision
4 4/29/11	Revised traffic control signs

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

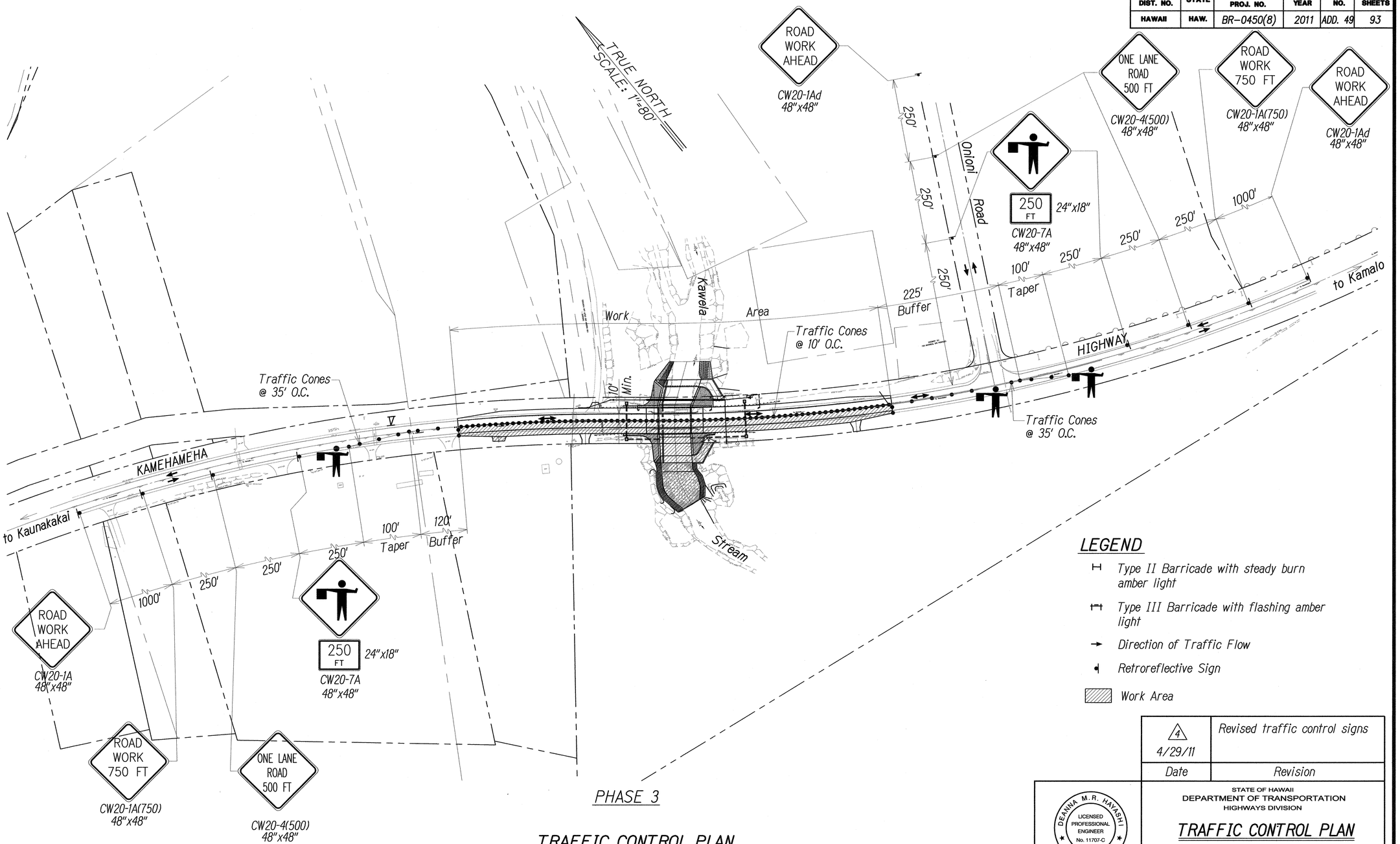
KAMEHAMEHA V HIGHWAY
Kawela Bridge Replacement
Federal Aid Project No. BR-0450(8)

Scale: AS NOTED Date: Oct. 2010

SHEET No. C4.14 OF 93 SHEETS

ADD. 48

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0450(8)	2011	ADD. 49	93



PHASE 3

TRAFFIC CONTROL PLAN

SCALE: 1" = 80'

LEGEND

- Type II Barricade with steady burn amber light
- Type III Barricade with flashing amber light
- Direction of Traffic Flow
- Retroreflective Sign
- Work Area

4	Revised traffic control signs
4/29/11	
Date	Revision

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EXP. 4/30/12

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HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

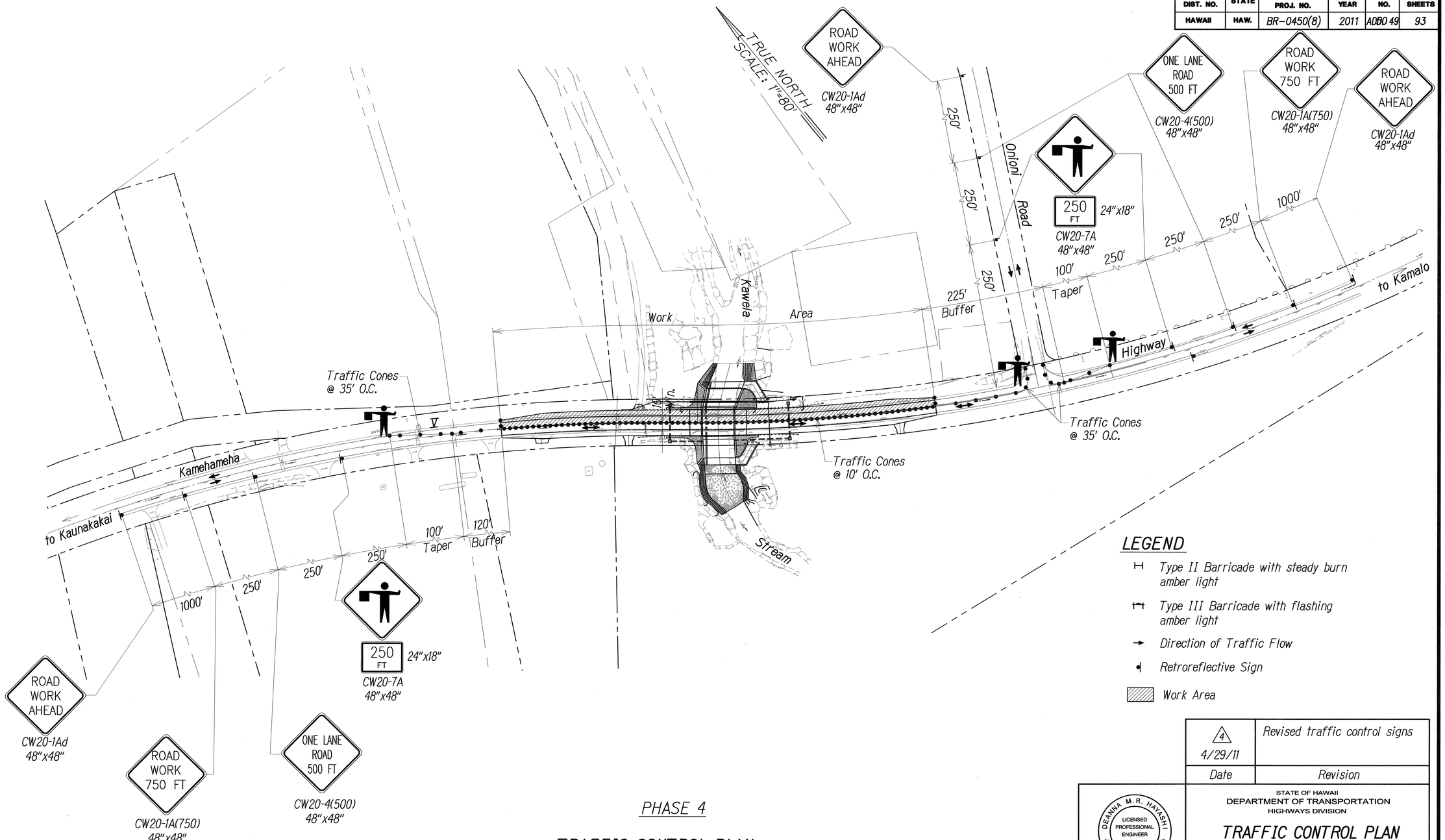
KAMEHAMEHA V HIGHWAY
Kawela Bridge Replacement
Federal Aid Project No. BR-0450(8)

Scale: AS NOTED Date: Oct. 2010

SHEET No. C4.15 OF 93 SHEETS

ADD. 49

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0450(8)	2011	ADD0 49	93



LEGEND

- Type II Barricade with steady burn amber light
- Type III Barricade with flashing amber light
- Direction of Traffic Flow
- Retroreflective Sign
- Work Area

PHASE 4

TRAFFIC CONTROL PLAN

SCALE: 1" = 80'

4	Revised traffic control signs
4/29/11	
Date	Revision

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EXP. 4/30/12

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

KAMEHAMEHA V HIGHWAY
Kawela Bridge Replacement
Federal Aid Project No. BR-0450(8)

Scale: AS NOTED Date: Oct. 2010

SHEET No. C4.16 OF 93 SHEETS

ADD. 50