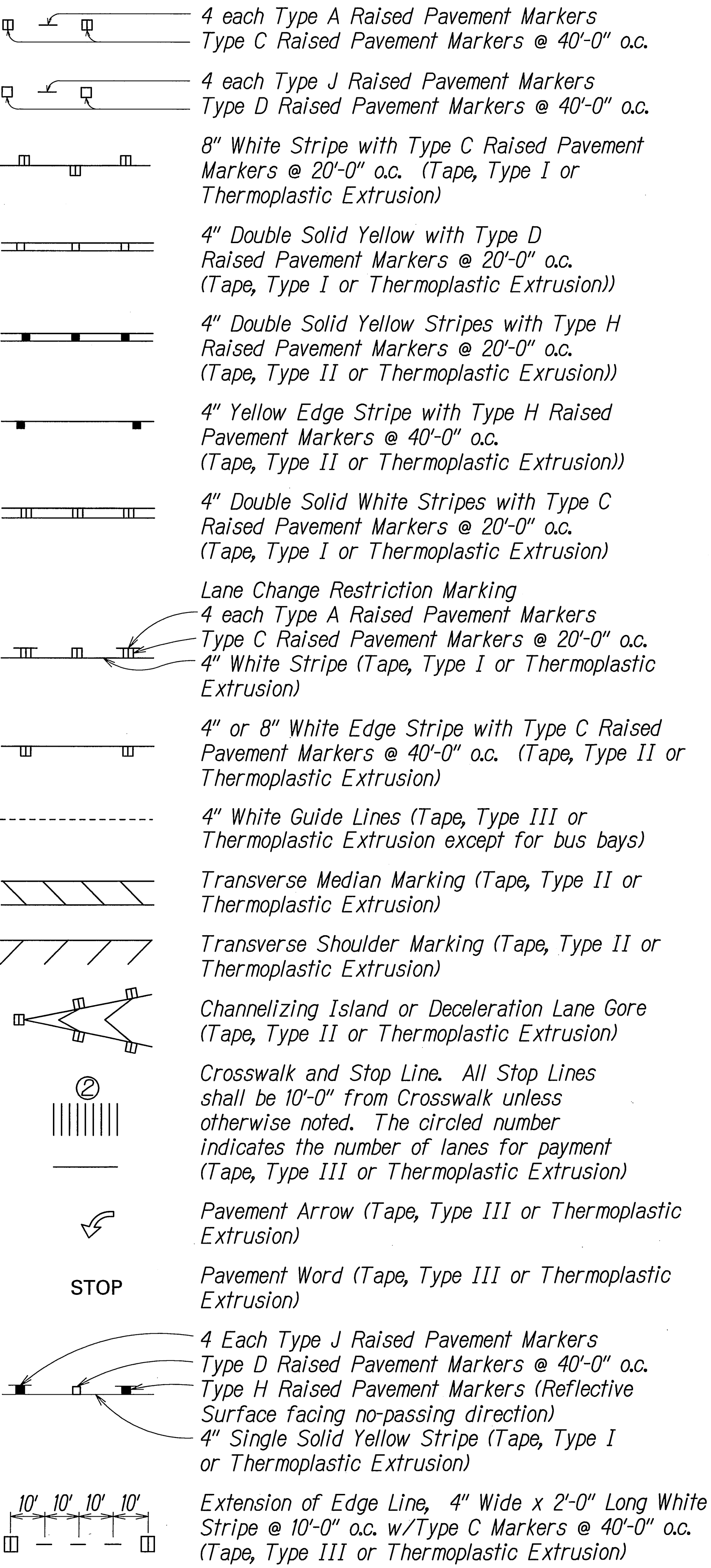


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-032-1(9)	2010	22	30

LEGEND

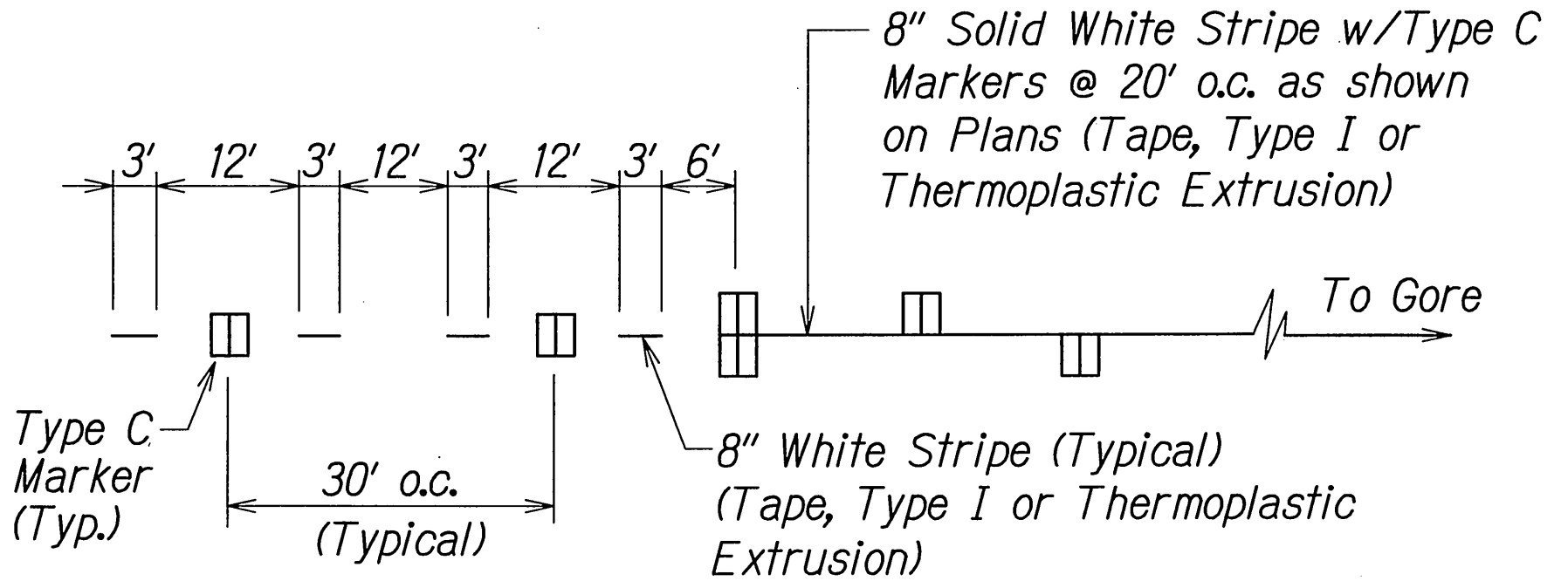


NOTES

1. Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
2. Existing pavement markings not incorporated in the final traffic pattern shall be removed as directed by the Engineer. Costs shall be incidental to the various pavement marking items.
3. Final locations of all signs shall be approved by the Engineer prior to any installation work.
4. Existing signs not shown on these plans shall remain as posted unless otherwise directed by the Engineer. Removal and disposal of existing signs and/or posts as designated on these plans shall be incidental to the various signing items.
5. All pavement striping shall be as noted on the legend or plans.
6. All preformed pavement marking tapes over existing pavement shall be applied with an approved primer as recommended by the tape manufacturer and as approved by the Engineer. The primer shall be allowed to dry to the tacky stage prior to tape application.
7. All existing pavement striping not shown that are damaged by Contractors operations shall be repaired by the Contractor at no cost to the State.
8. All pavement striping repairs shall be done in accordance with manufacturer's recommendations.

TRAFFIC CONTROL NOTES:

1. Minimum width of traffic lane through work area is 10'.
2. Relocation and/or removal of temporary signs and posts used for Traffic Control shall be considered incidental to various contract items.
3. Damage to signs, temporary pavement markers, delineators, barricades and lamps 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 by the Contractor's negligence shall be repaired or replaced at the Contractor's expense.
4. The Type II and Type III Barricades with lamps used during construction shall be considered incidental to various contract items.
5. Work required in the Detour/Traffic Control Plans will be paid under applicable contract items or otherwise specified herein. 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. This work shall be considered incidental to various contract items.
6. The Flashing Arrow Board used during construction shall be considered incidental to various contract items.

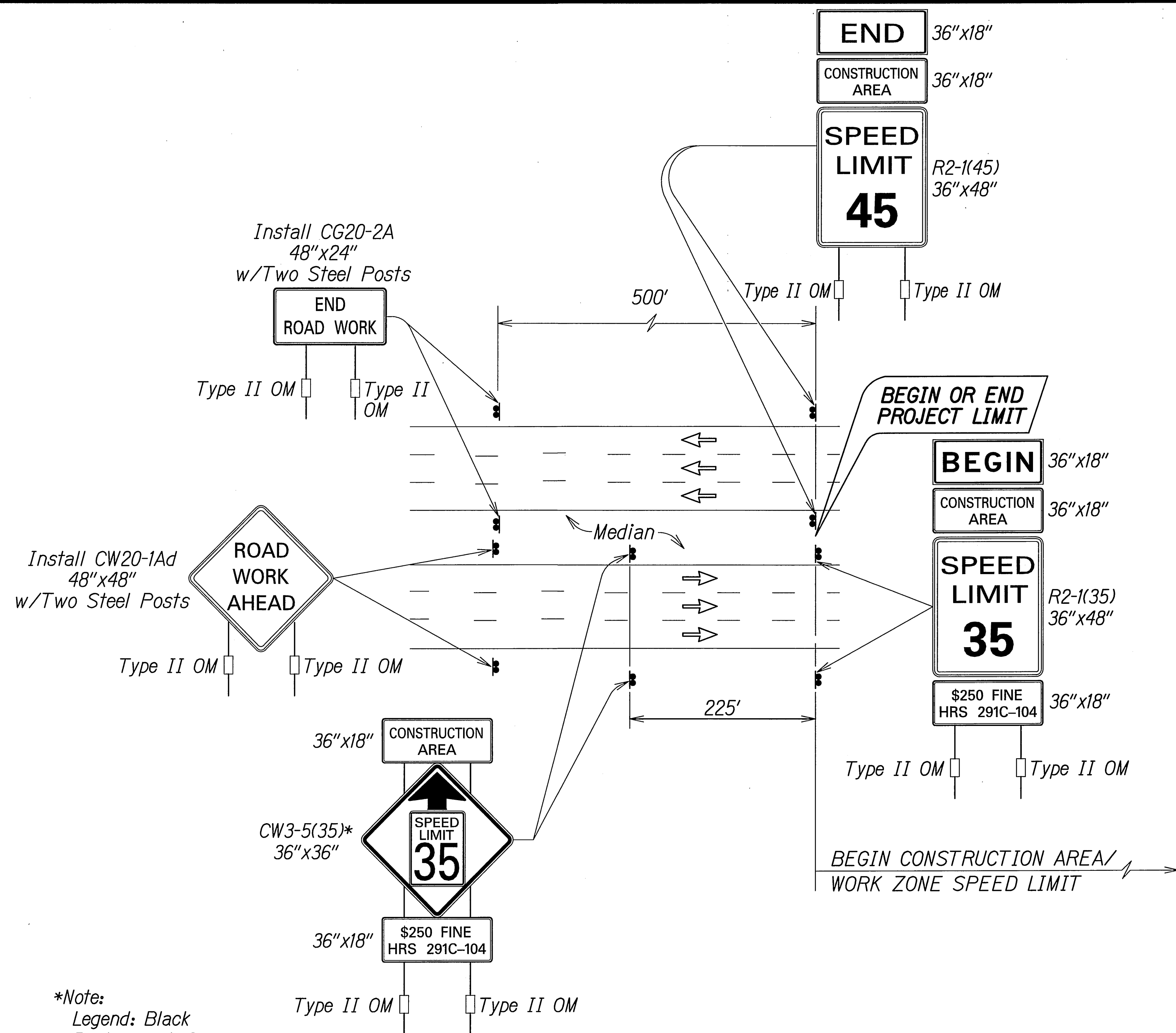


LANE DROP MARKING
Not to Scale

SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NOTE BOOK	
1/2 May	
1/2 May	
1/2 May	

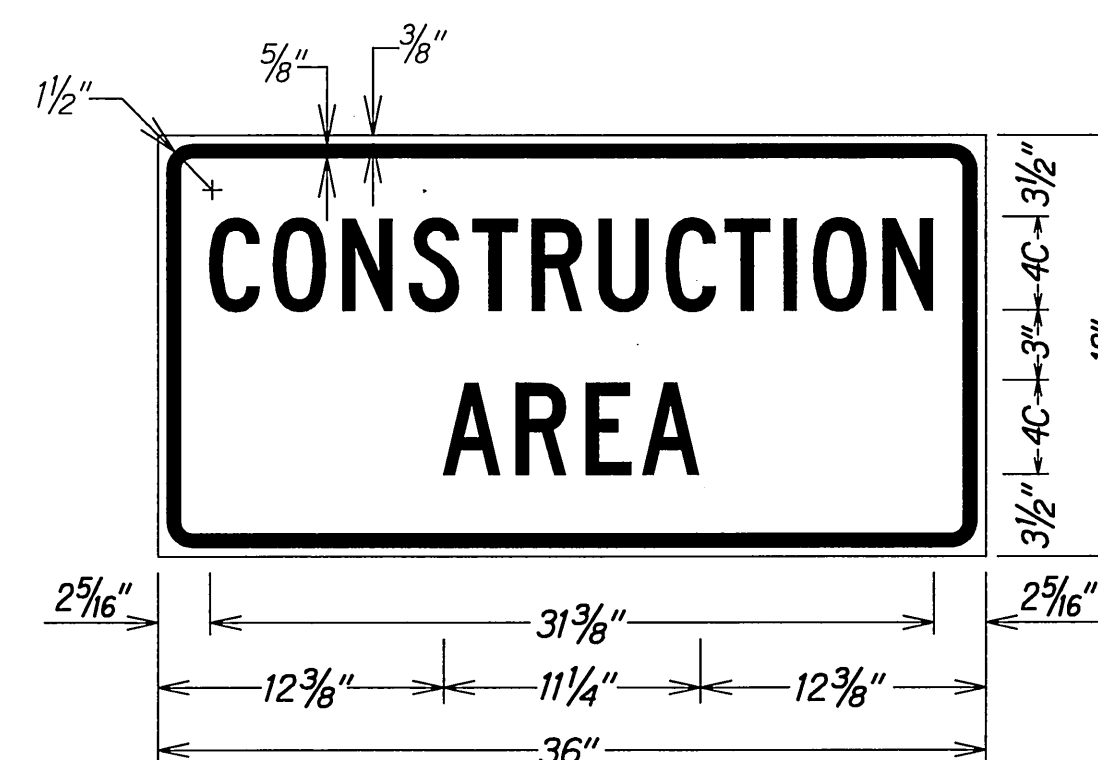
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PAVEMENT MARKING
LEGEND, DETAILS & NOTES
KAAHUMANU AVENUE
Waiale Road Overpass Repairs
Federal Aid Project No. ARR-032-1(9)
Scale: As Shown Date: Sept. 2009
SHEET No. 71 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-032-1(9)	2010	23	30

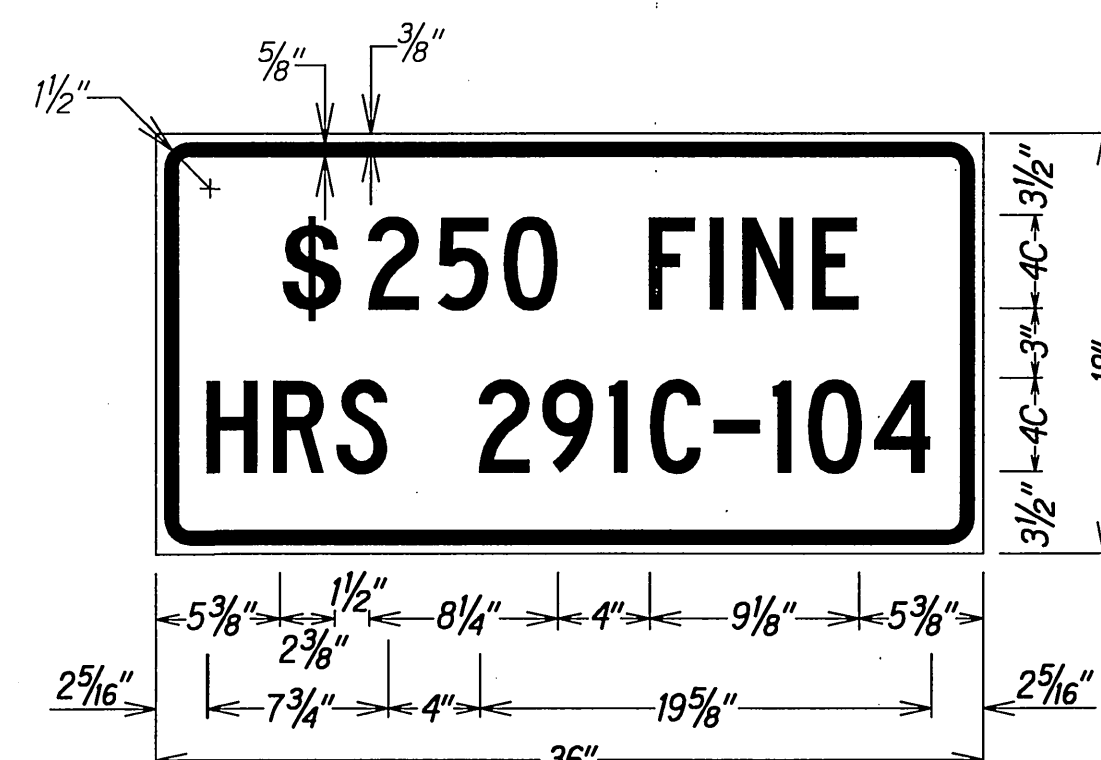


*Note:
Legend: Black
Background: Orange
Speed Limit: Black on White

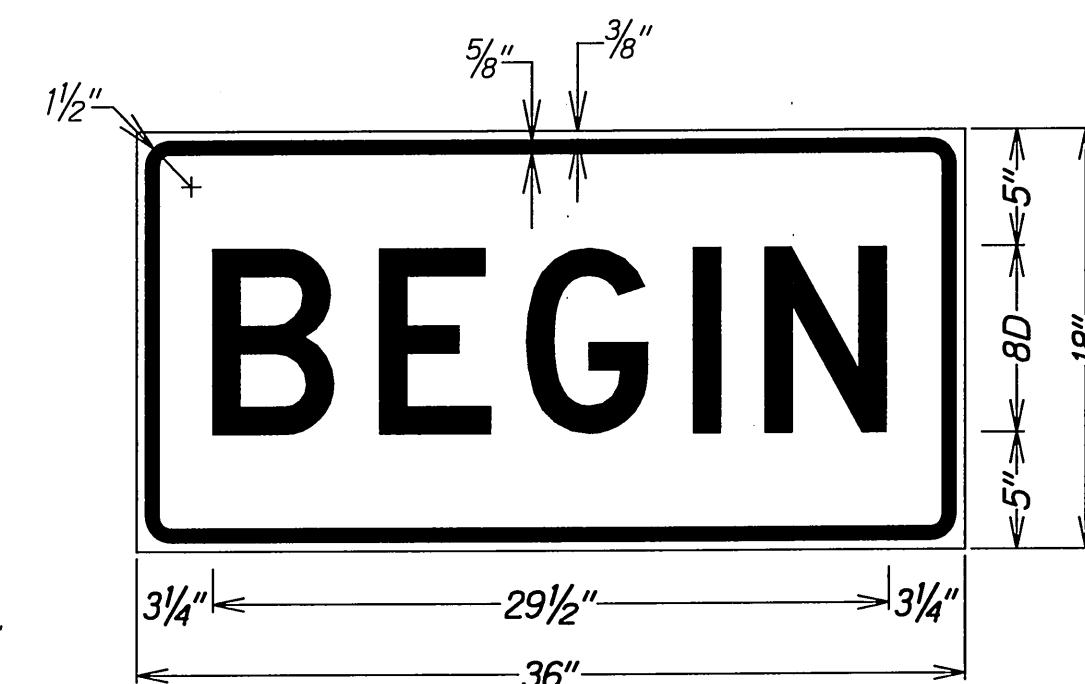
TYPICAL DETAIL FOR CONSTRUCTION SIGNS ON MULTILANE DIVIDED HIGH SPEED HIGHWAY



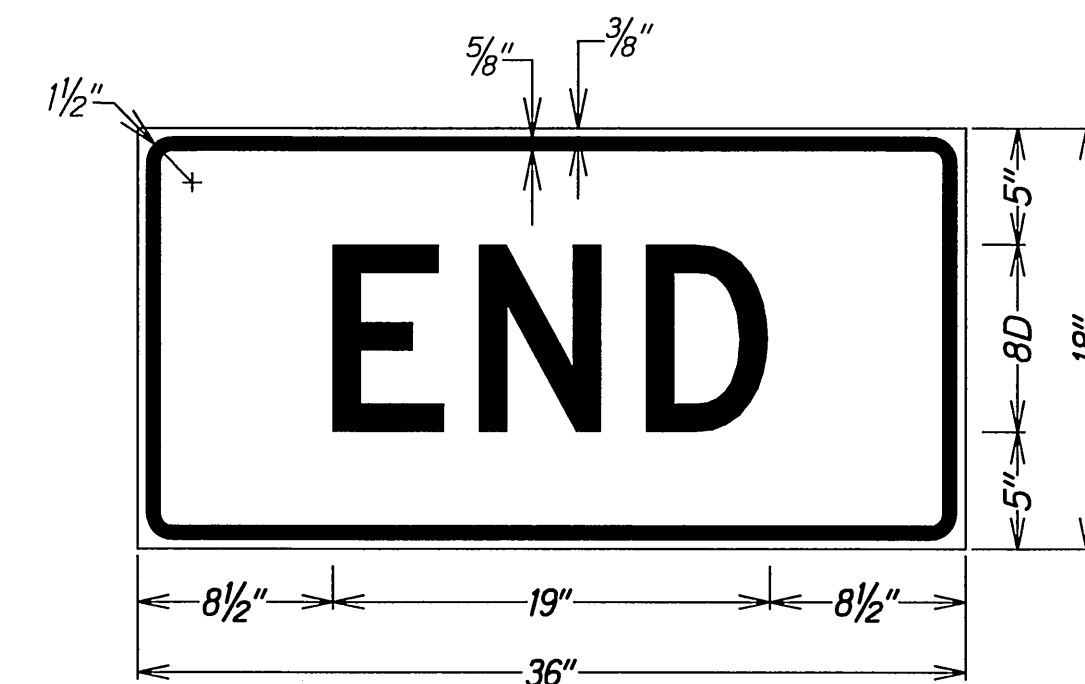
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BACKGROUND: ORANGE



LEGEND: BLACK
BACKGROUND: WHITE



LEGEND: BLACK
BACKGROUND: ORANGE



LEGEND: BLACK
BACKGROUND: ORANGE

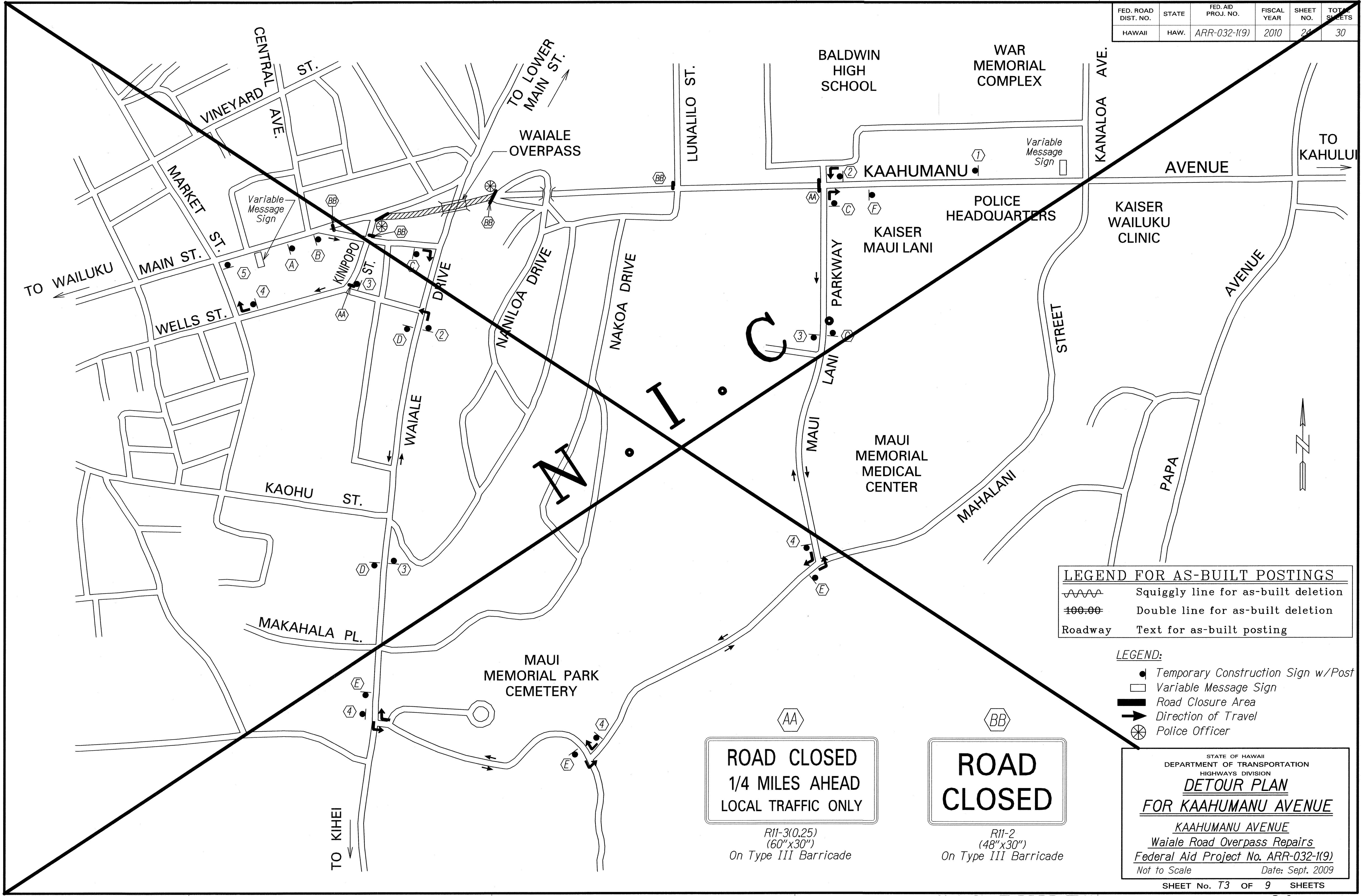
Work Zone Notes:

1. 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.
2. 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(35) and CW3-5(35) with "CONSTRUCTION AREA" and "\$250 FINE HRS 291C-104" Supplemental Signs).
3. Construction sign assemblies shall be installed on both the approaching and trailing ends of each work zone as shown on this plan.
4. Each construction warning sign and work zone speed limit assembly shall have a minimum of two (2) Type II OM. Installation of each Type II OM shall be considered incidental to Item No. 645.0100 - Traffic Control.
5. 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.
6. Placement of construction signs shall not obstruct the path of pedestrians and bicyclists.
7. 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. 645.0100 - Traffic Control.

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NOTE BOOK	
102 MAY	
10/20/2010	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
HIGH SPEED DIVIDED HIGHWAY
WORK ZONE SIGNING PLAN, NOTES&DETAILS
KAAHUMANU AVENUE
Waiale Road Overpass Repairs
Federal Aid Project No. ARR-032-1(9)
Not To Scale Date: Sept. 2009

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-032-1(9)	2010	24	30



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

- LEGEND:**
- Temporary Construction Sign w/Post
 - Variable Message Sign
 - Road Closure Area
 - Direction of Travel
 - Police Officer

ROAD CLOSED
1/4 MILES AHEAD
LOCAL TRAFFIC ONLY

R11-3(0.25)
(60"x30")
On Type III Barricade

ROAD CLOSED

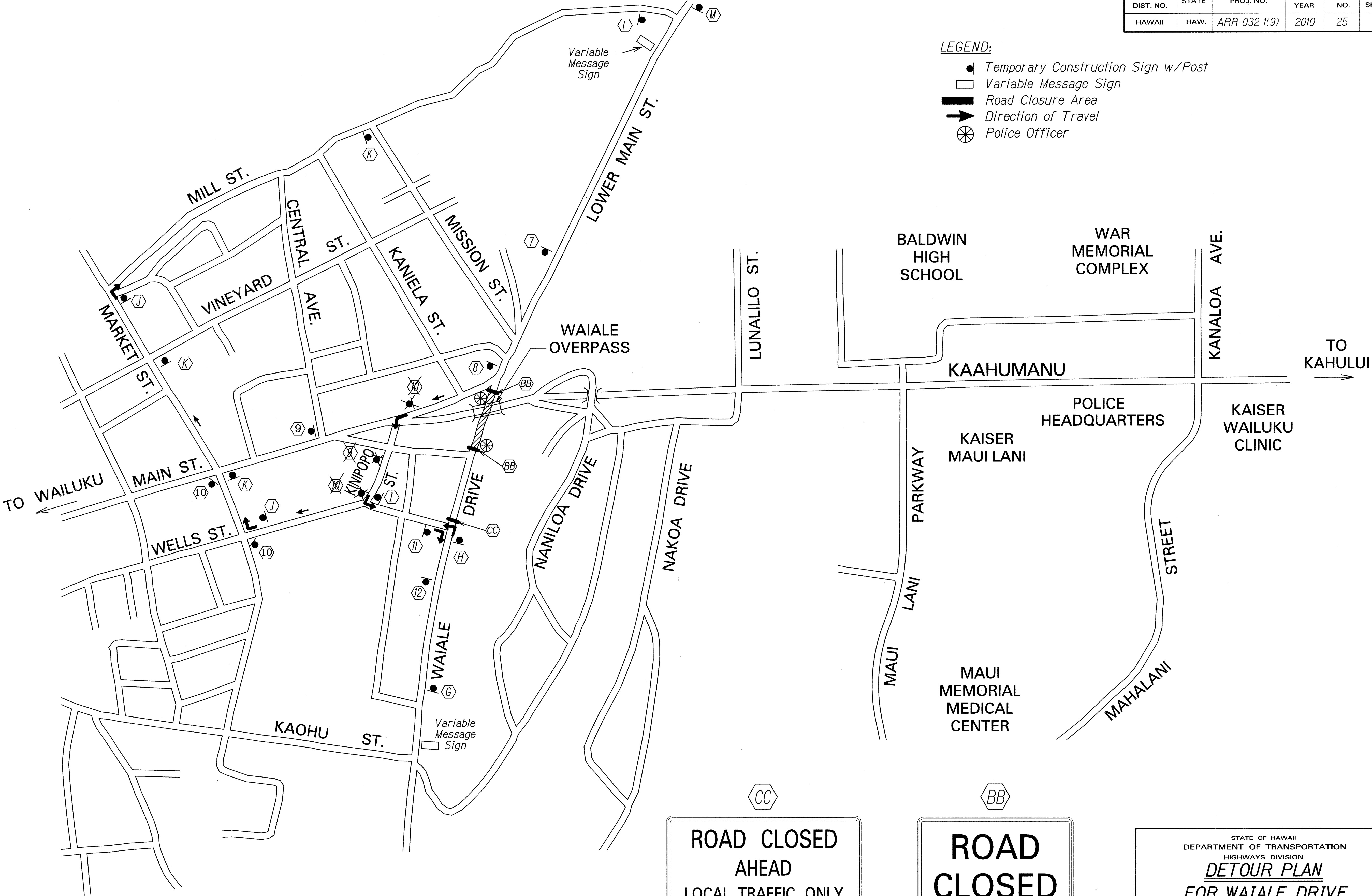
R11-2
(48"x30")
On Type III Barricade

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
DETOUR PLAN
FOR KAAHUMANU AVENUE
KAAHUMANU AVENUE
Waiale Road Overpass Repairs
Federal Aid Project No. ARR-032-1(9)
Not to Scale Date: Sept. 2009

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
10/2/09	DESIGNED BY	
NA/2/09	CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-032-1(9)	2010	25	30

- LEGEND:
- Temporary Construction Sign w/Post
 - Variable Message Sign
 - Road Closure Area
 - ➔ Direction of Travel
 - ⊗ Police Officer



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
1/2 May	TRACED BY	
NA/valencop2	QUANTITIES BY	
	CHECKED BY	

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

CC

ROAD CLOSED  
AHEAD  
LOCAL TRAFFIC ONLY

R11-3  
(60"x30")  
On Type III Barricade

BB

ROAD  
CLOSED

R11-2  
(48"x30")  
On Type III Barricade

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

DETOUR PLAN  
FOR WAIKOLE DRIVE

KAAHUMANU AVENUE  
Waiale Road Overpass Repairs  
Federal Aid Project No. ARR-032-1(9)  
Not to Scale Date: Sept. 2009

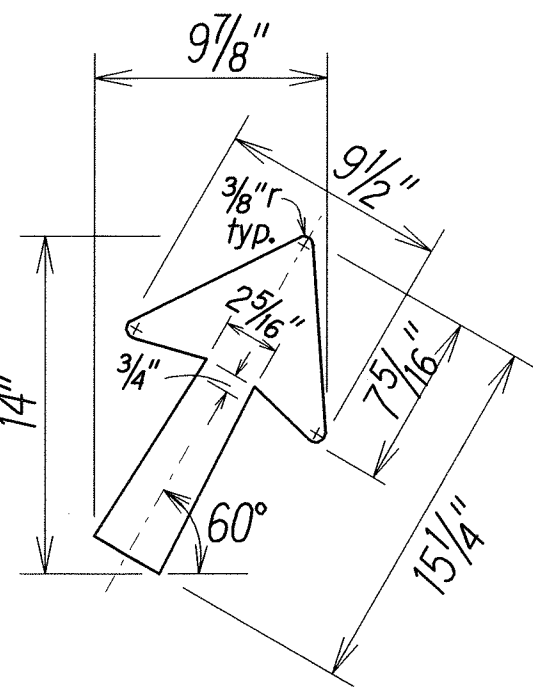
SHEET No. T4 OF 9 SHEETS



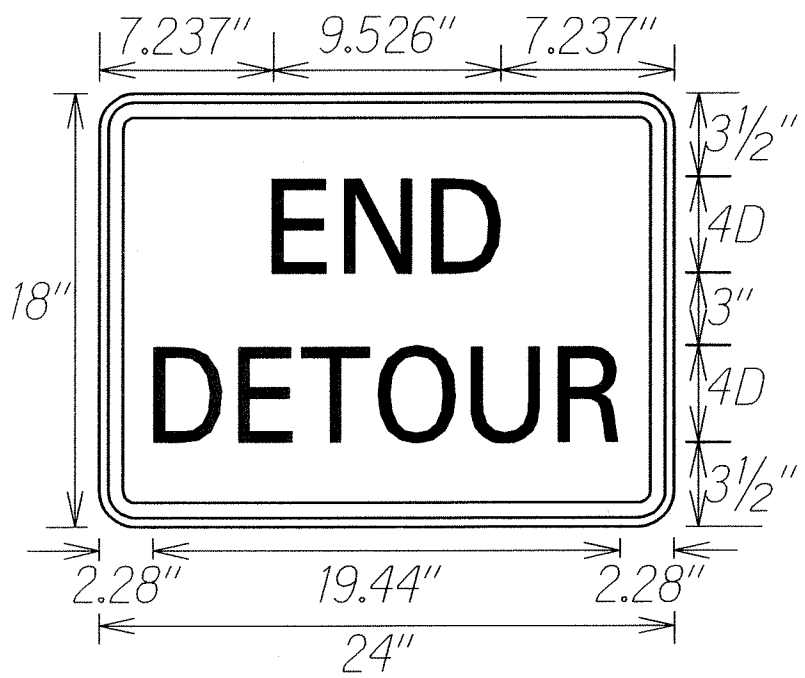
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-032-1(9)	2010	26	30

NOTES:

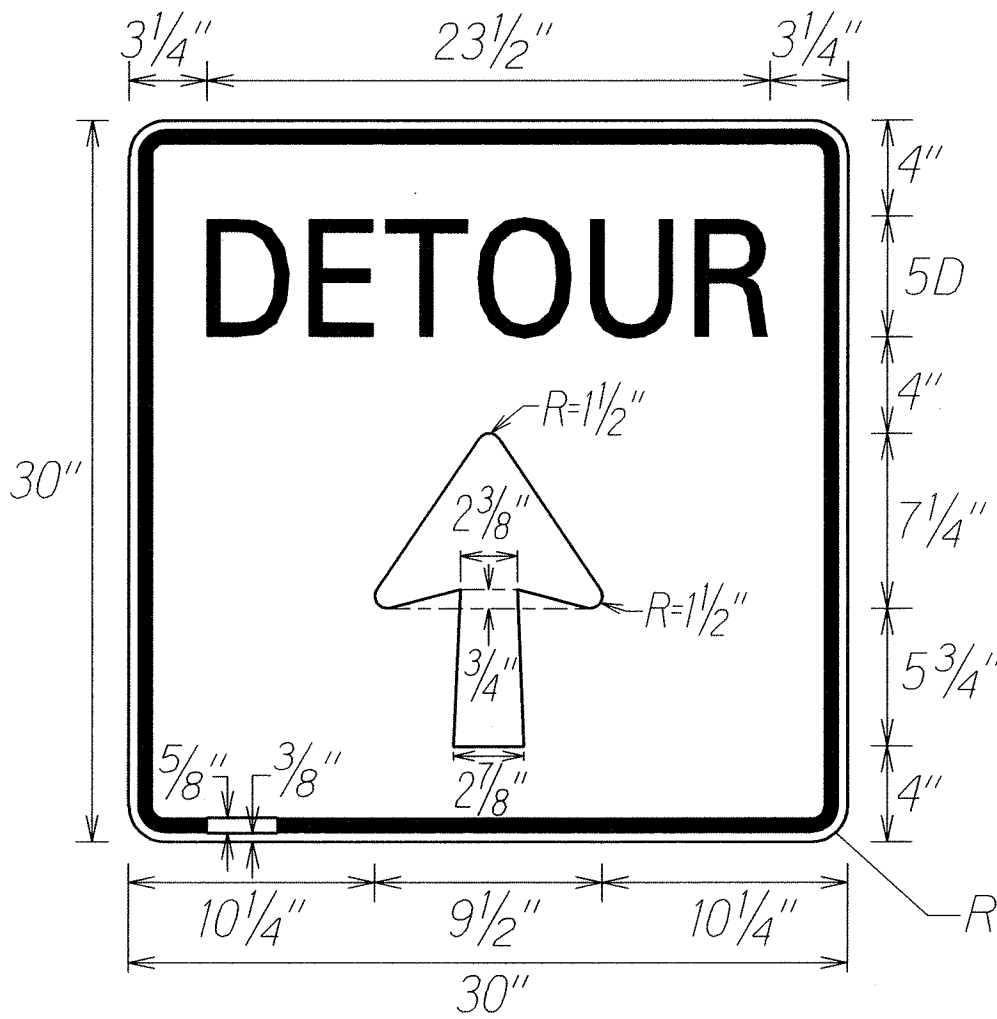
- Markers prefixed with "C" shall have a black legend on orange background.
- Contractor to provide up to 2 portable variable message signs per each road/ramp closure as part of the traffic control lump sum item. Variable message signs shall be set up one week prior to any road/ramp closure and for the duration of the road/ramp closure at the location specified by the Engineer. Variable message signs will not be paid for separately, but shall be considered incidental to Contract Item 645.0100 - Traffic Control.
- In addition to the detour signs shown on this plan, Contractor shall install appropriate traffic controls for each road/ramp closure. All traffic control work, including detour signs will not be paid for separately, but shall be considered incidental to Contract Item 645.0100 - Traffic Control.
- Contractor shall furnish a minimum of one (1) uniformed police officer with vehicle equipped with blue strobe light at each roadway approach to the road/ramp closure area. The furnishing of a police officer with vehicle will not be paid for separately, but shall be considered incidental to Contract Item 645.0100 - Traffic Control.
- For additional traffic control note, see Contract Plan Sheet No. T1.
- All signs shown within the County right-of-way shall be installed on existing street light posts or temporary non-marring sign supports. This work shall be considered incidental to various contract items.



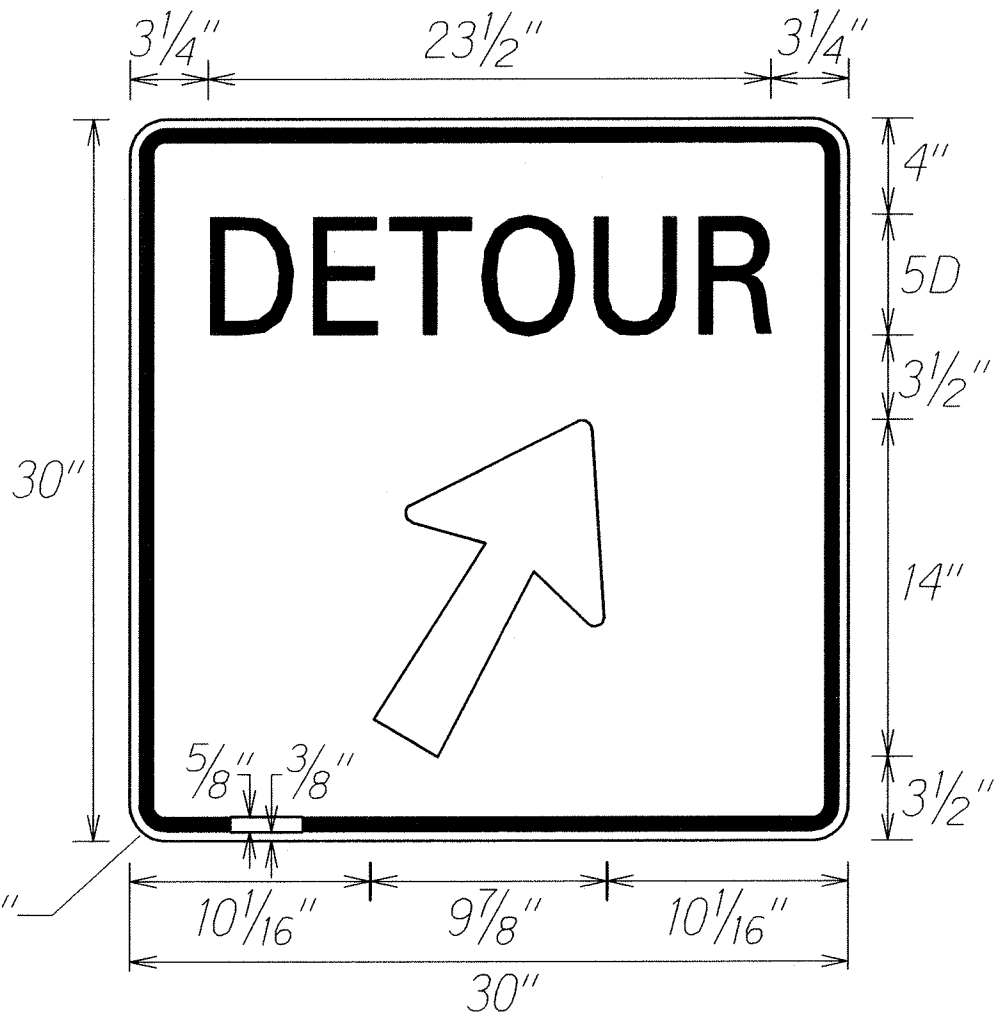
Type "A" Diagonal  
Arrow Detail



CM4-8a

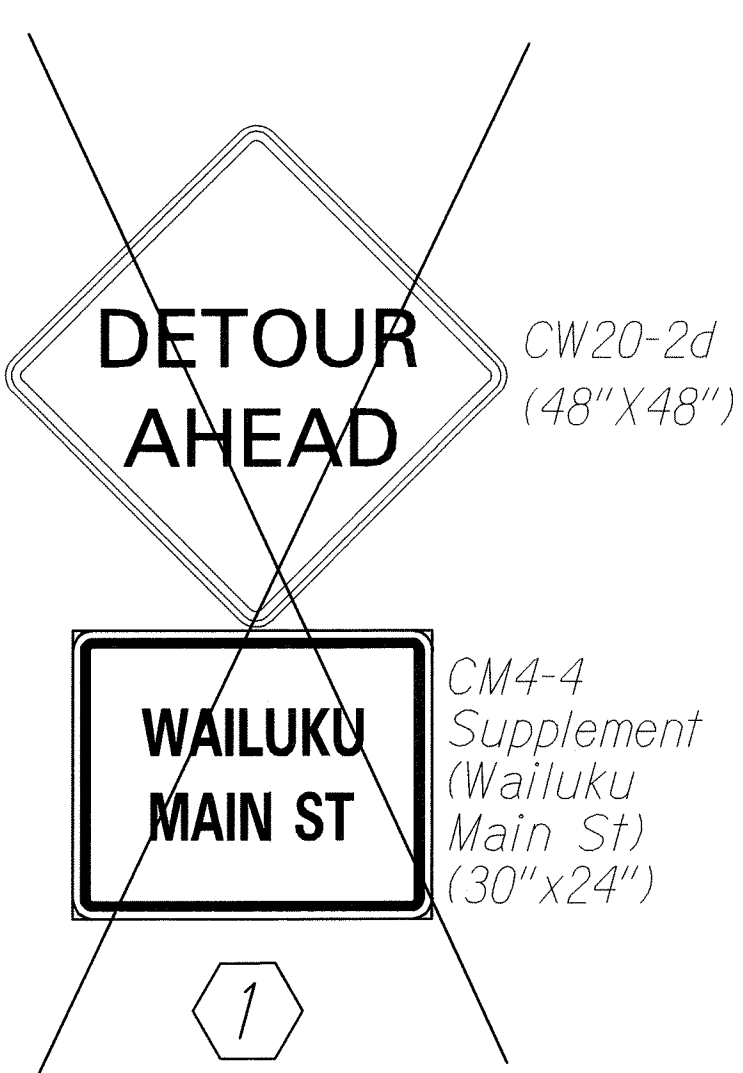


CM4-9(S)  
Not to Scale

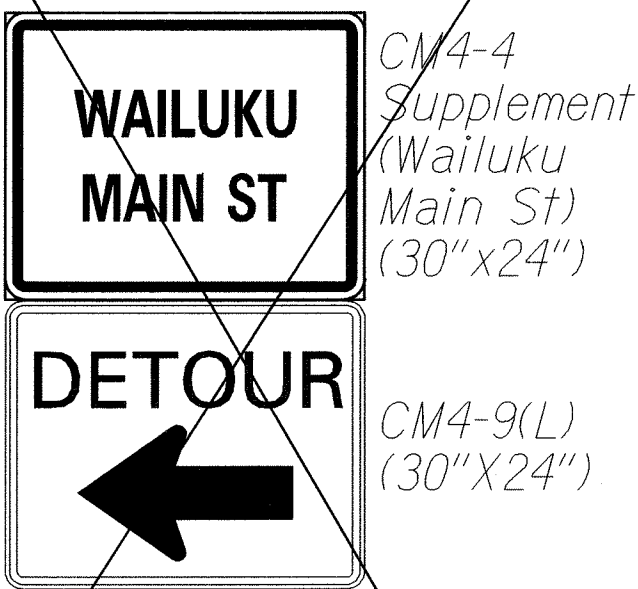


CM4-9(D)  
Not to Scale

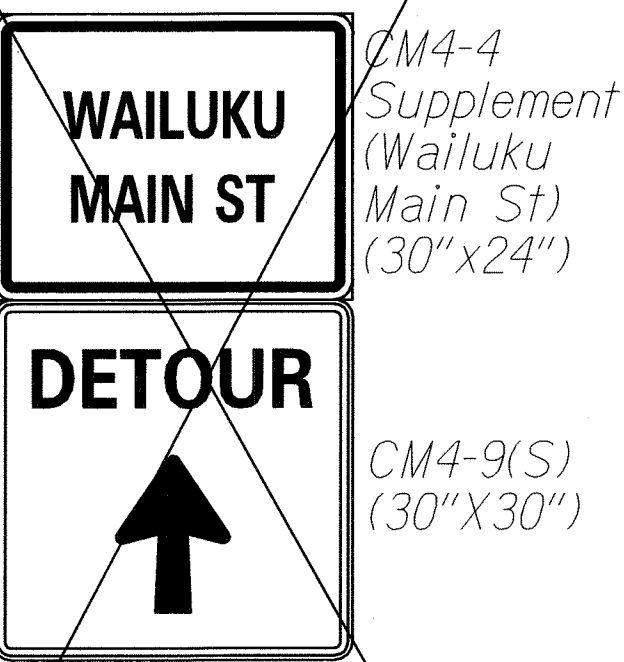
LEGEND: BLACK  
BACKGROUND: ORANGE



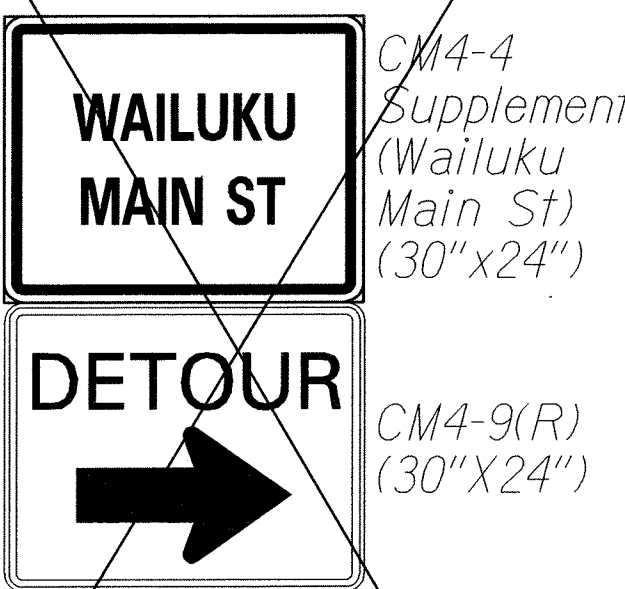
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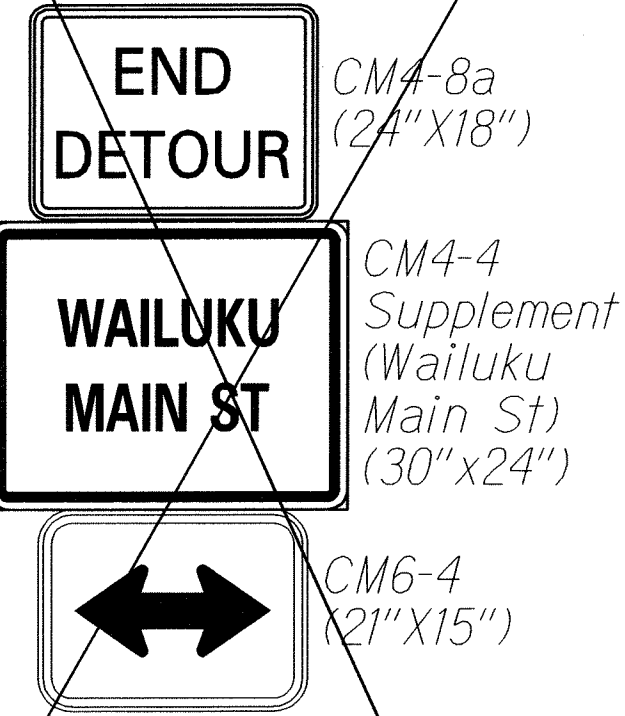
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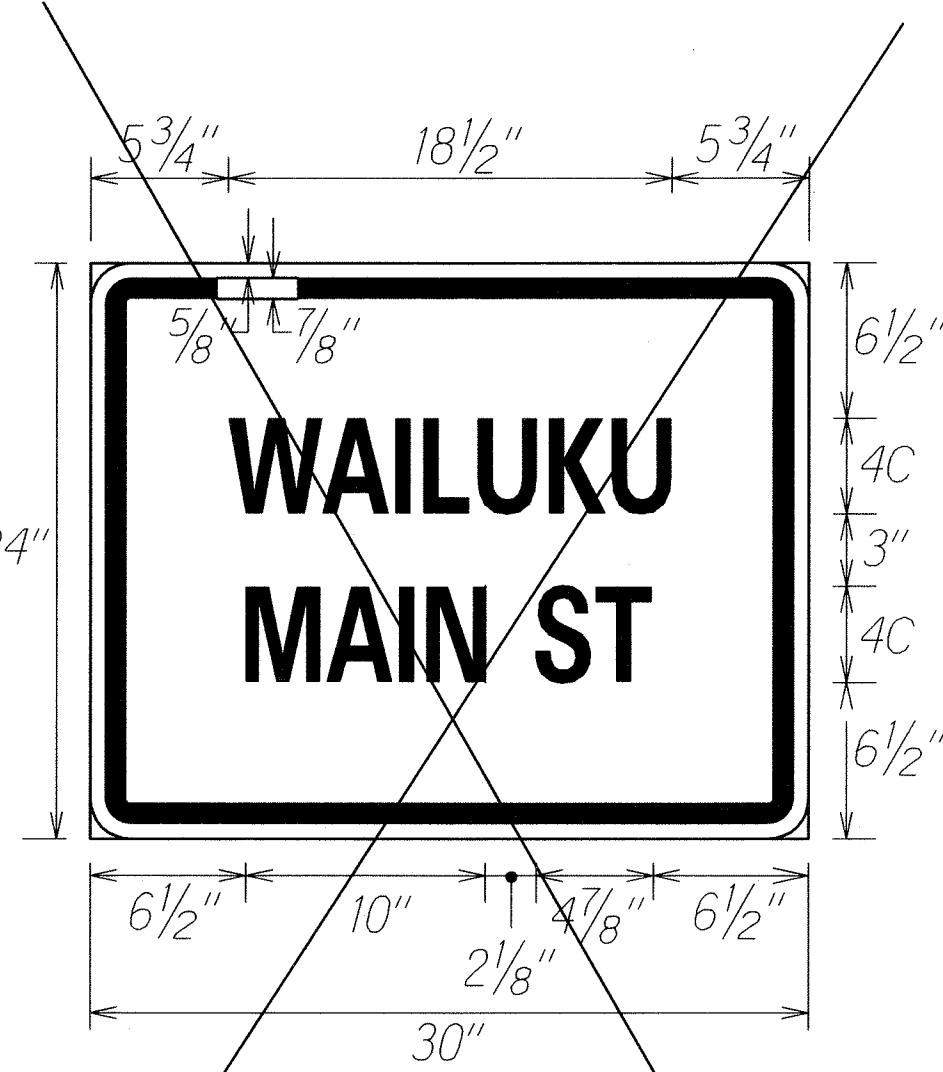
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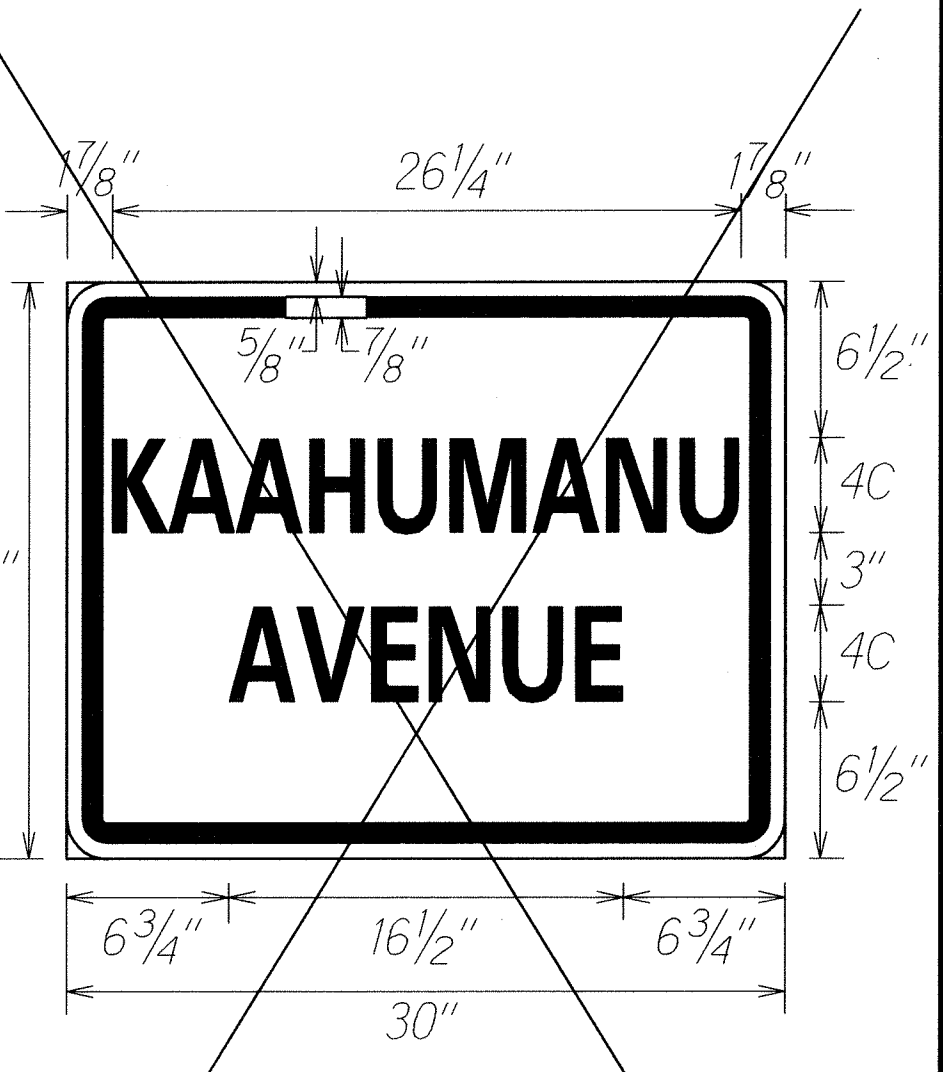
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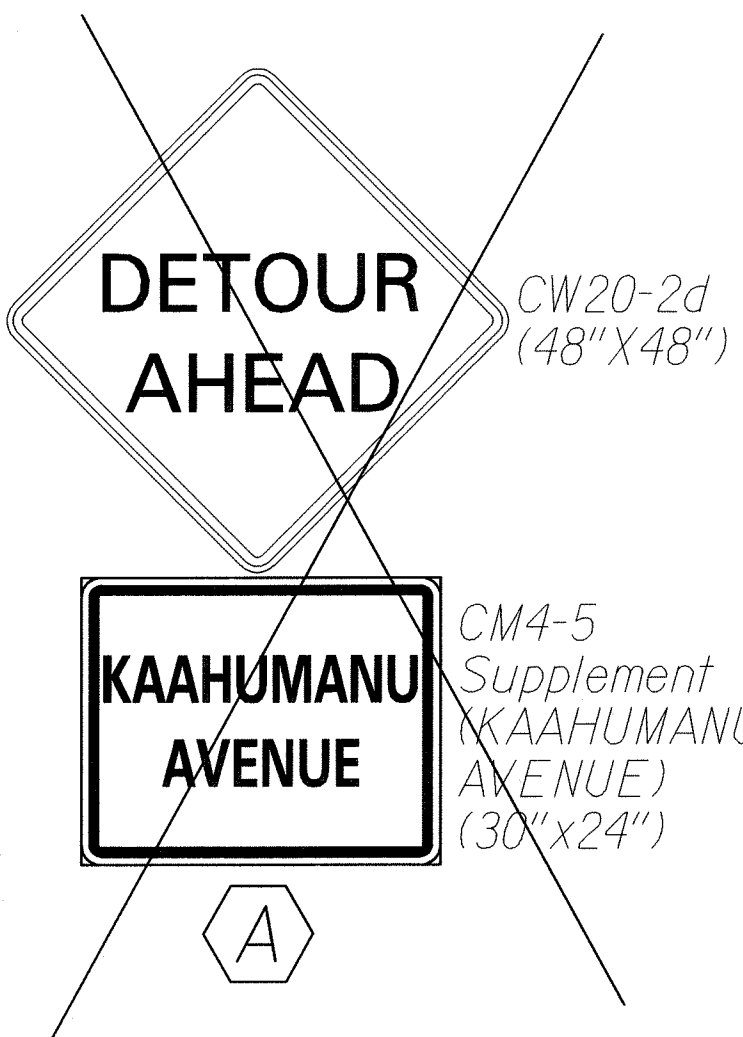
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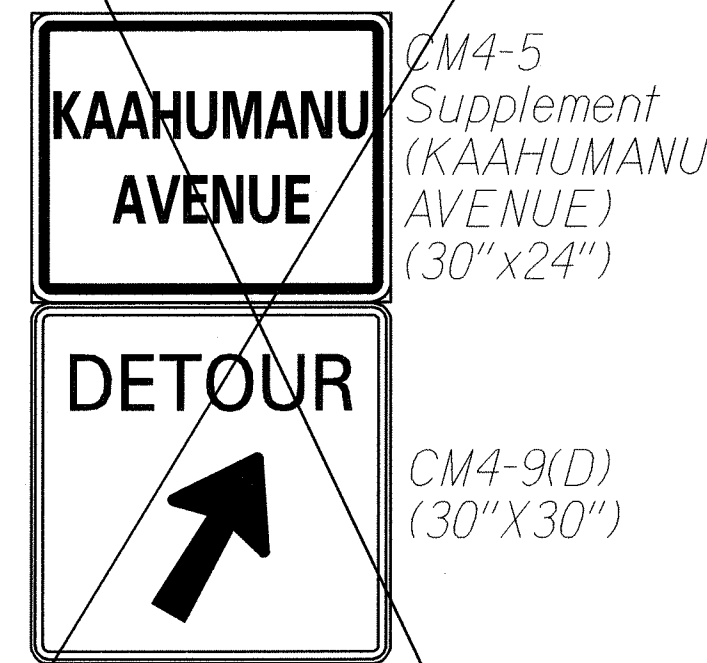
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(Wailuku Main St)  
Not to Scale



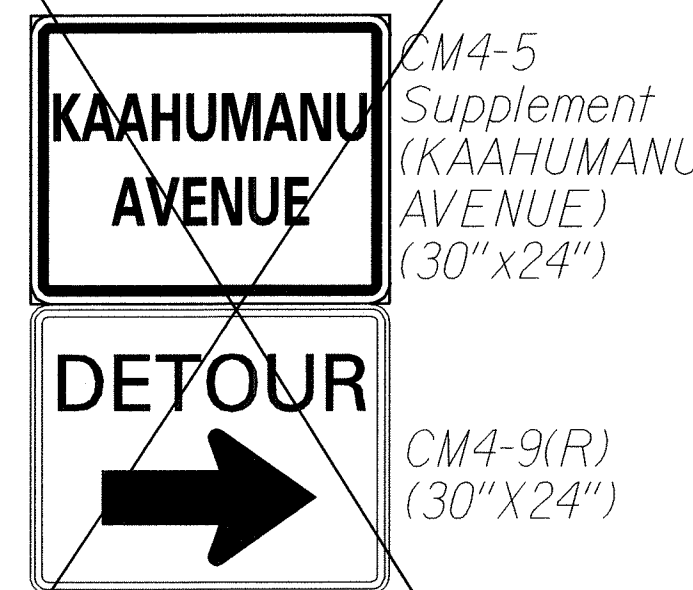
CM4-5 Supplemental  
(Kaaalamanu Ave)  
Not to Scale



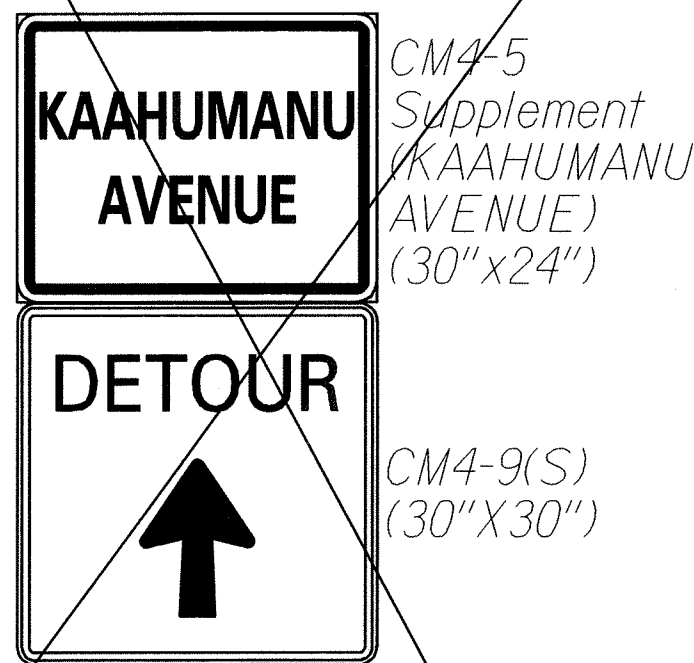
A



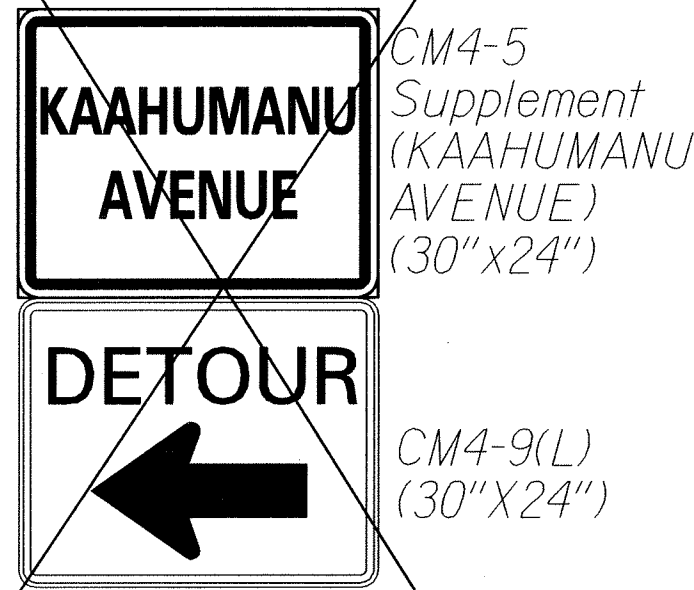
B



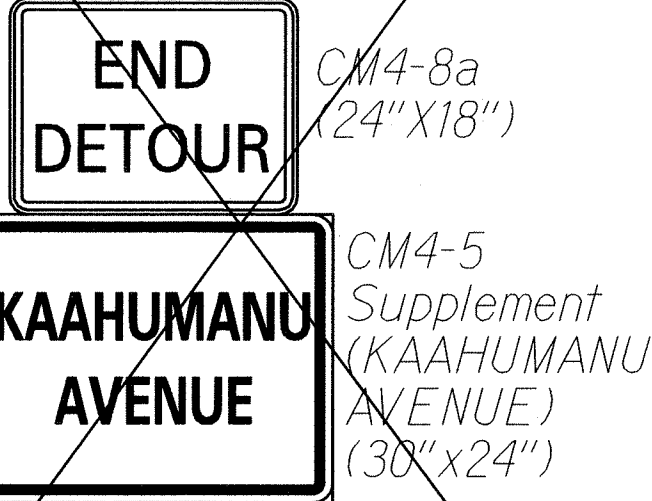
C



D



E



F

LEGEND FOR AS-BUILT POSTINGS

- Squiggly line for as-built deletion
- Double line for as-built deletion
- Roadway Text for as-built posting

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**DETOUR SIGN DETAILS**

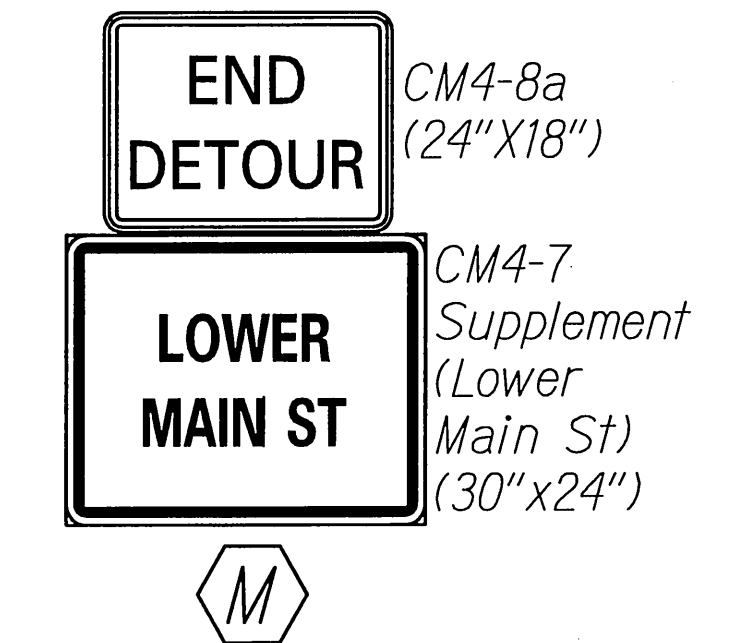
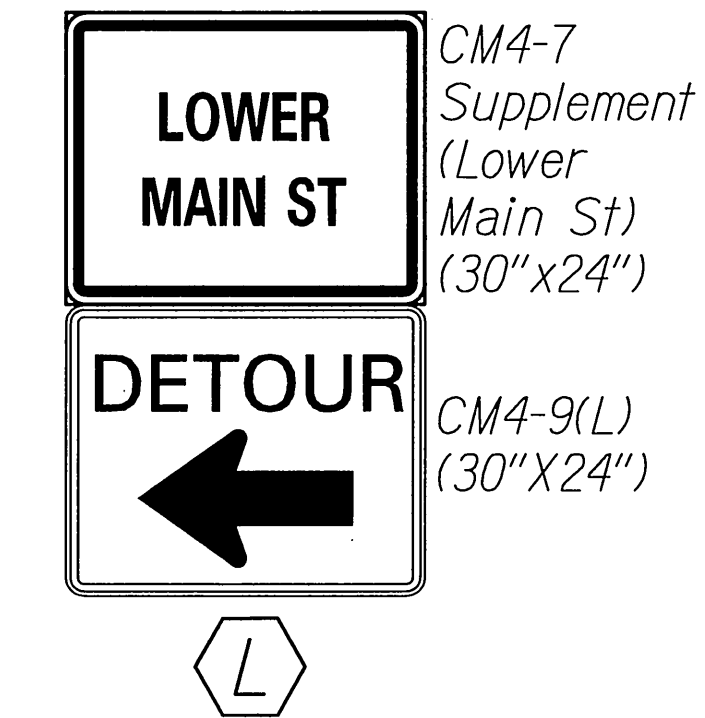
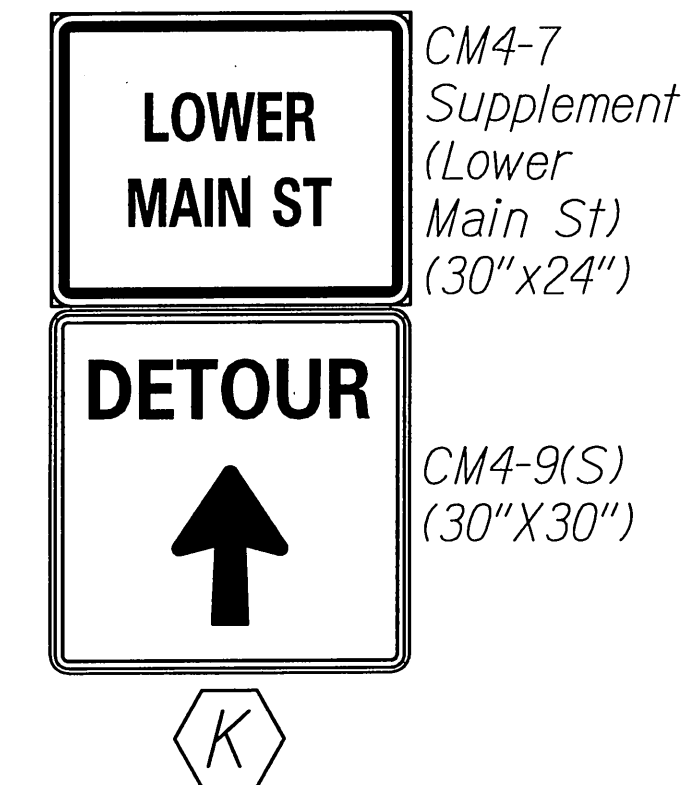
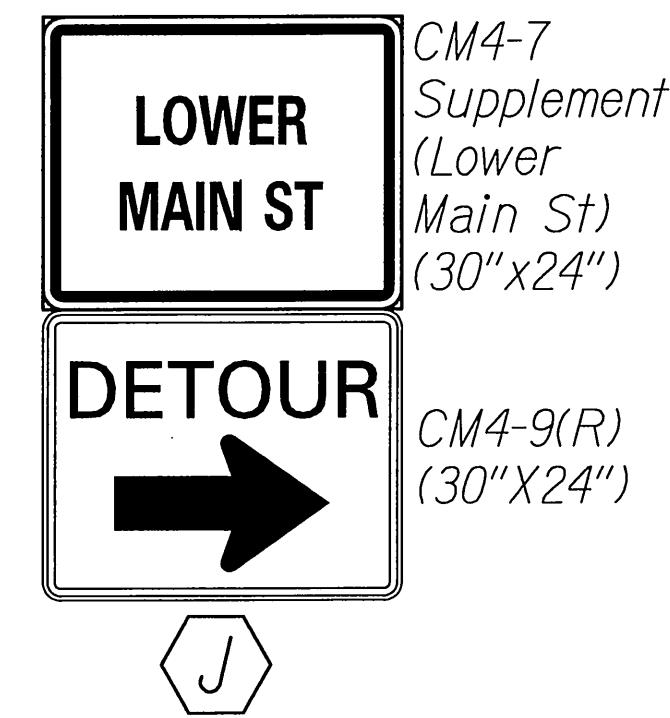
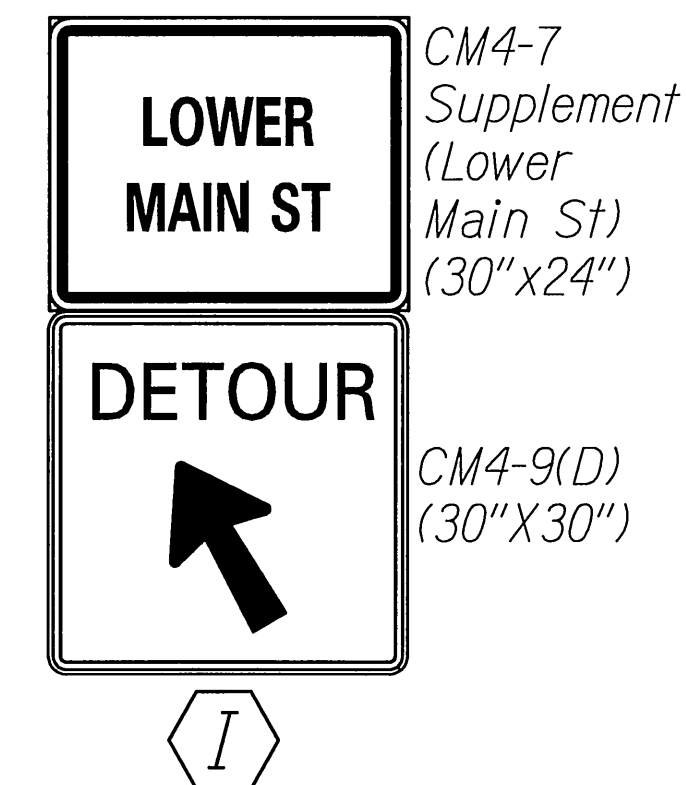
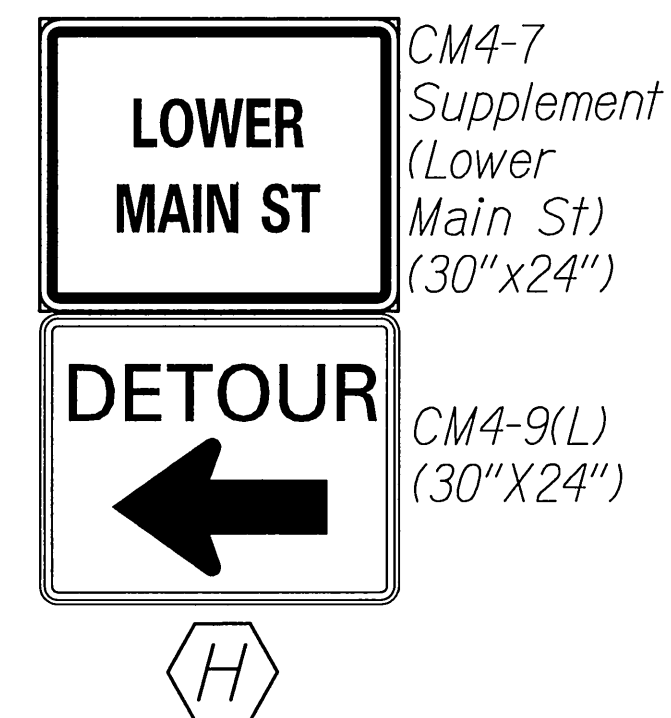
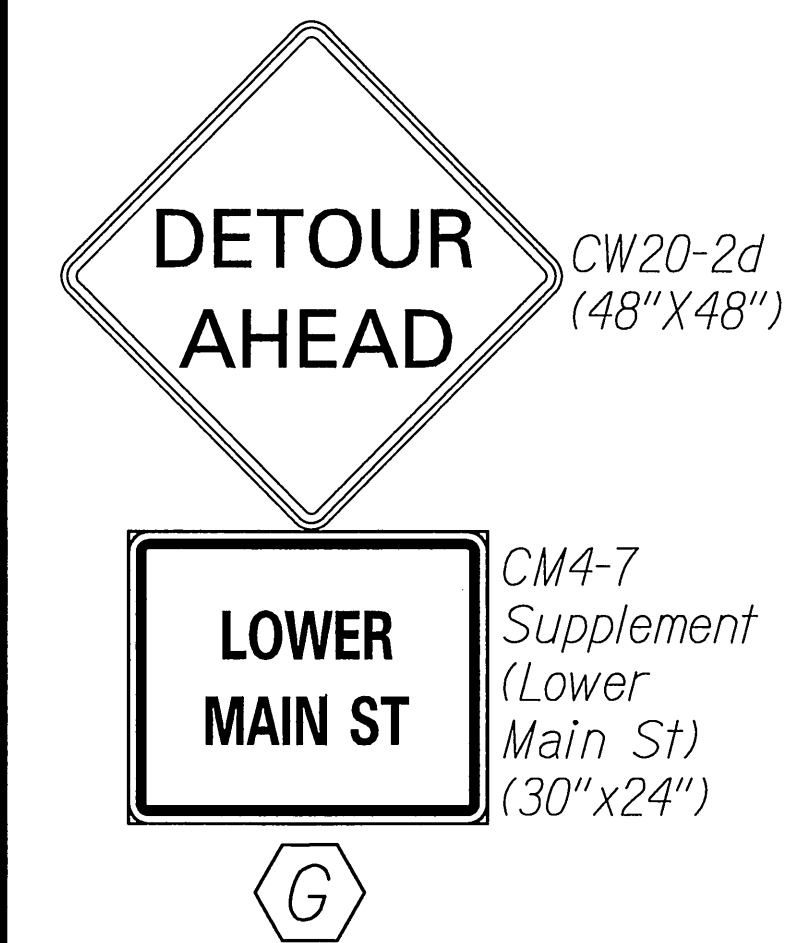
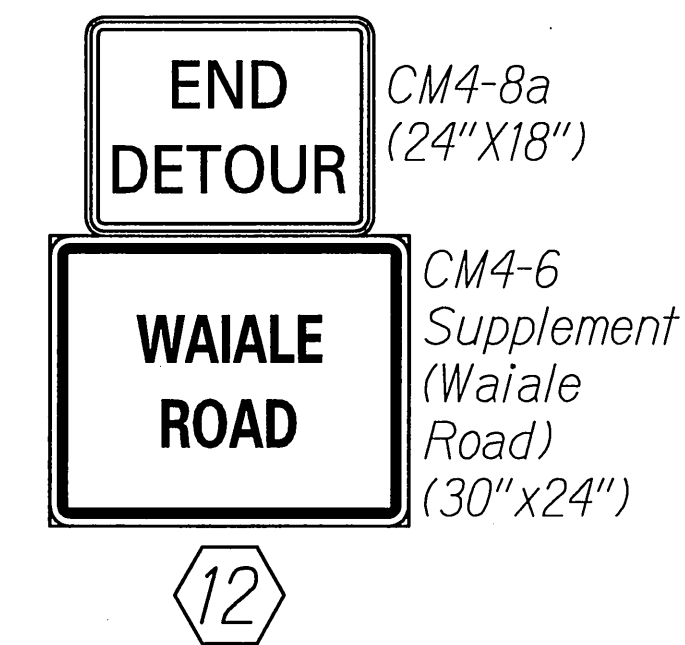
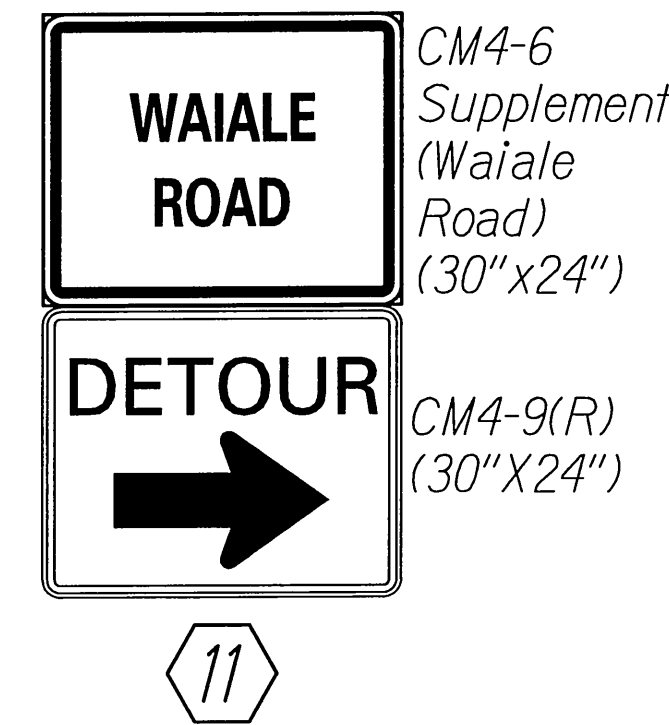
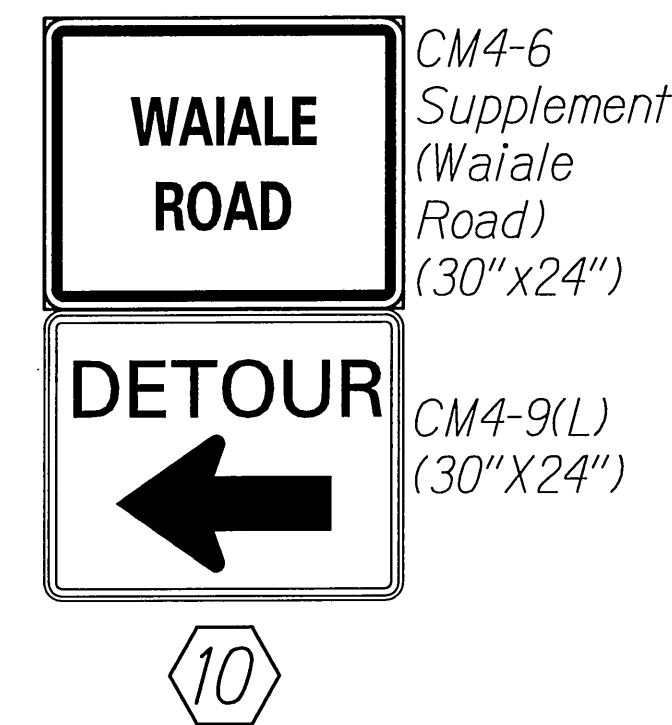
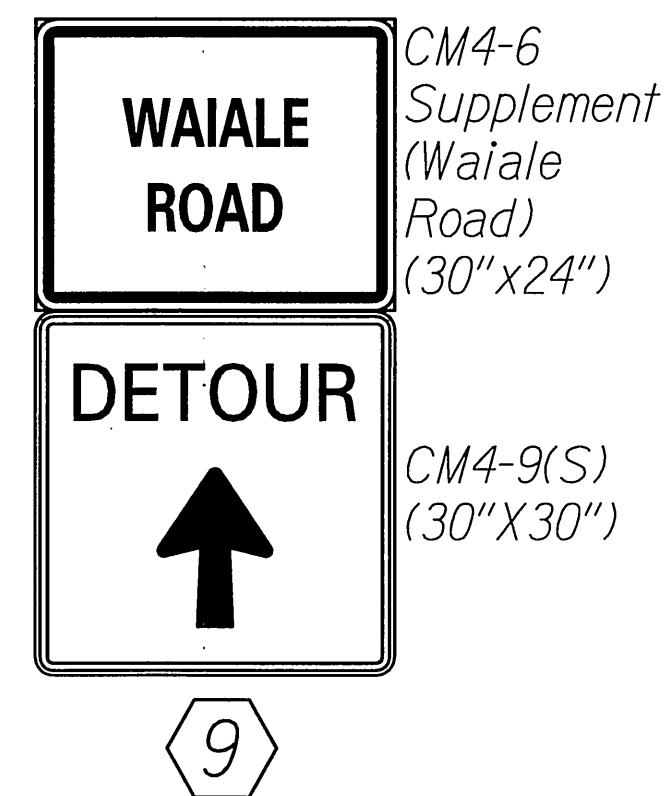
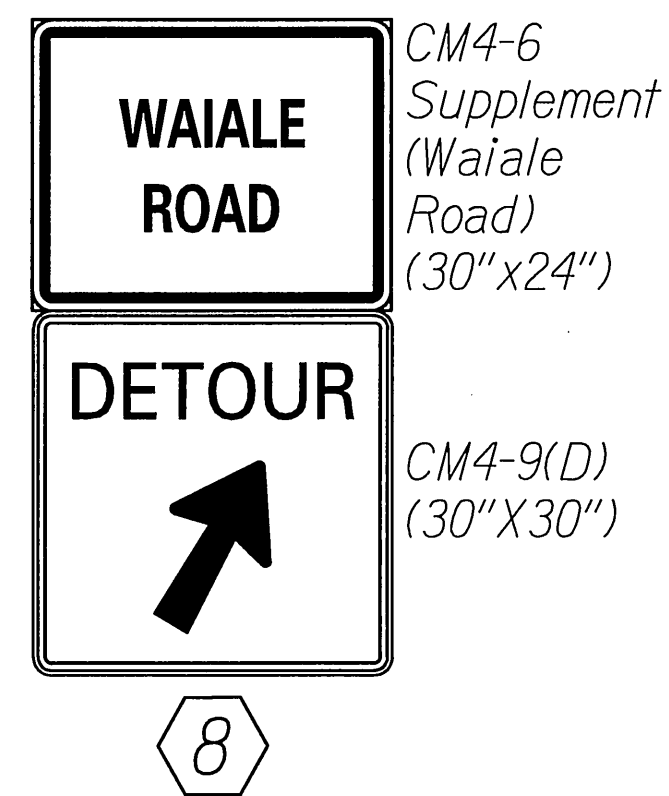
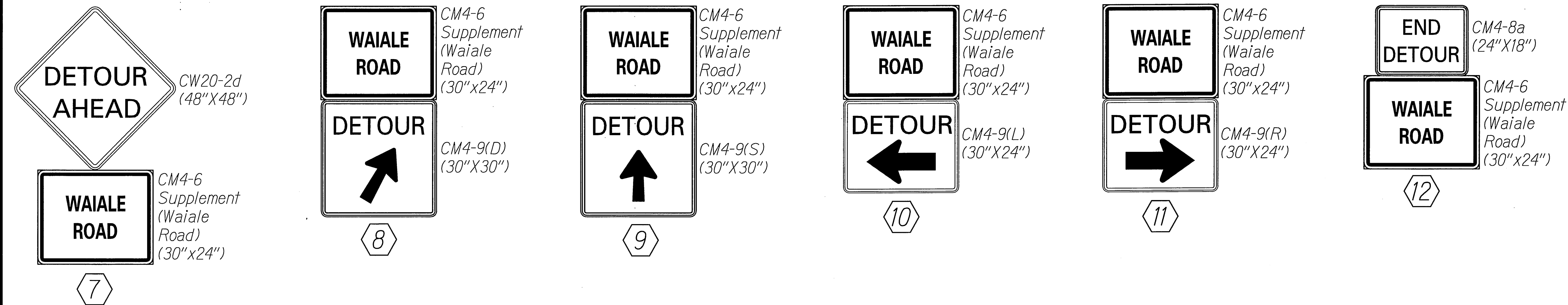
KAAHUMANU AVENUE  
Waiale Road Overpass Repairs  
Federal Aid Project No. ARR-032-1(9)

Not to Scale Date: Sept. 2009

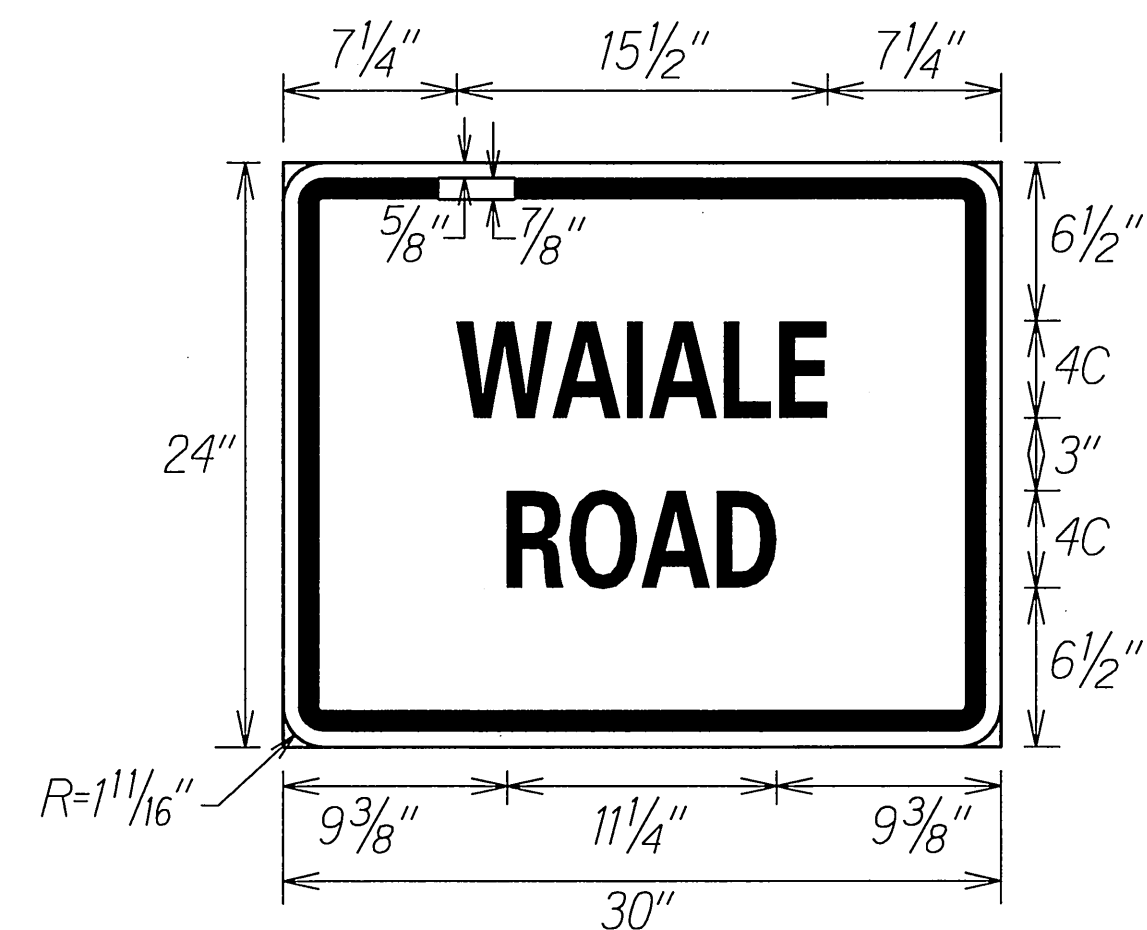
SHEET No. 75 OF 9 SHEETS

"AS-BUILT"

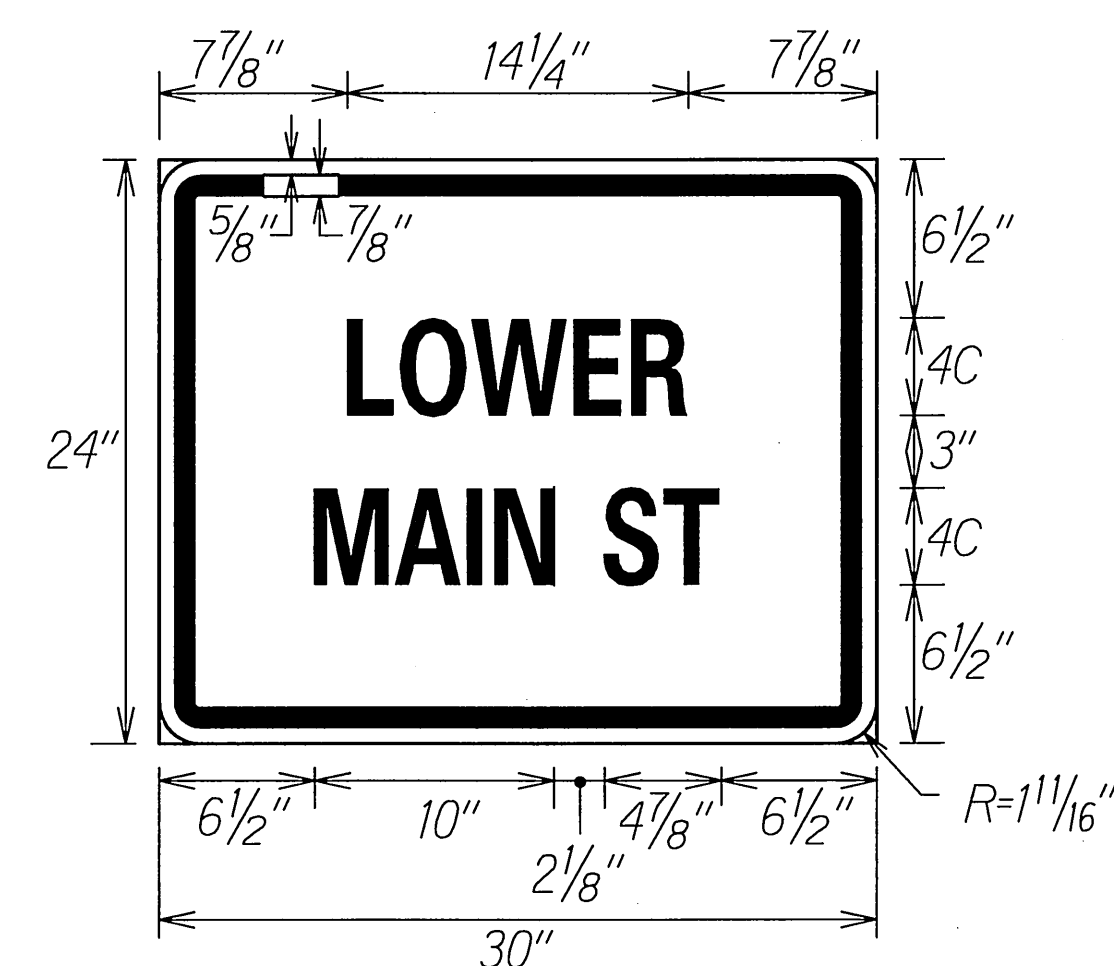
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-032-1(9)	2010	27	30



LEGEND: BLACK  
BACKGROUND: ORANGE



CM4-6 Supplemental  
(Waiale Rd)  
Not to Scale



CM4-7 Supplemental  
(Lower Main St)  
Not to Scale

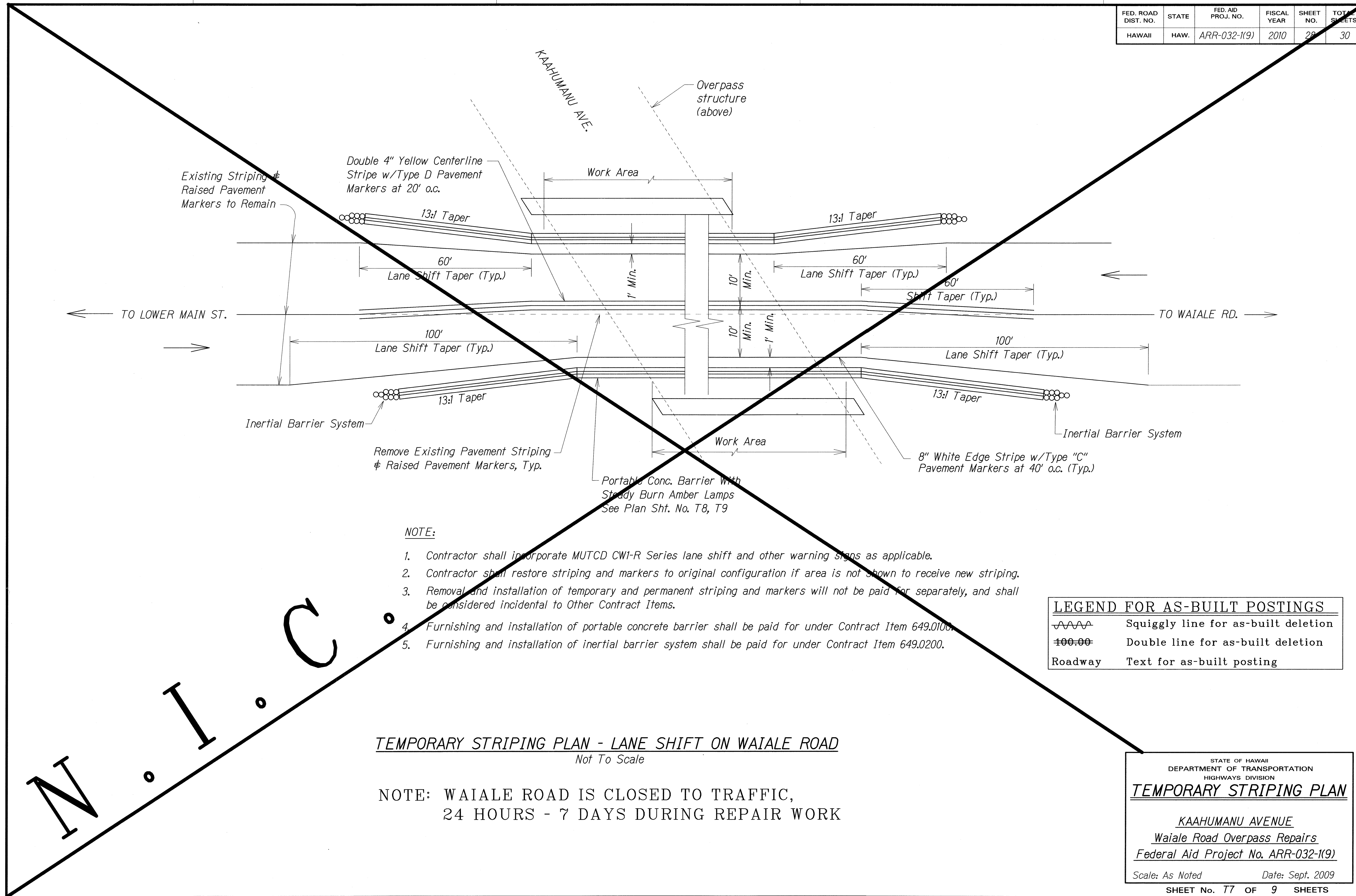
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
1/2 May	TRACED BY	
1/2 May	QUANTITIES BY	
1/2 May	CHECKED BY	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**DETOUR SIGN DETAILS**  
  
**KAAHUMANU AVENUE**  
**Waiale Road Overpass Repairs**  
**Federal Aid Project No. ARR-032-1(9)**  
  
Not to Scale

Date: Sept. 2009

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-032-1(9)	2010	28	30



**NOTE:**

- Contractor shall incorporate MUTCD CWI-R Series lane shift and other warning signs as applicable.
- Contractor shall restore striping and markers to original configuration if area is not shown to receive new striping.
- Removal and installation of temporary and permanent striping and markers will not be paid for separately, and shall be considered incidental to Other Contract Items.
- Furnishing and installation of portable concrete barrier shall be paid for under Contract Item 649.0100.
- Furnishing and installation of inertial barrier system shall be paid for under Contract Item 649.0200.

**LEGEND FOR AS-BUILT POSTINGS**

	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

**TEMPORARY STRIPING PLAN - LANE SHIFT ON WAIALE ROAD**

Not To Scale

NOTE: WAIALE ROAD IS CLOSED TO TRAFFIC,  
24 HOURS - 7 DAYS DURING REPAIR WORK

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TEMPORARY STRIPING PLAN**  
  
**KAAHUMANU AVENUE**  
**Waiale Road Overpass Repairs**  
**Federal Aid Project No. ARR-032-1(9)**

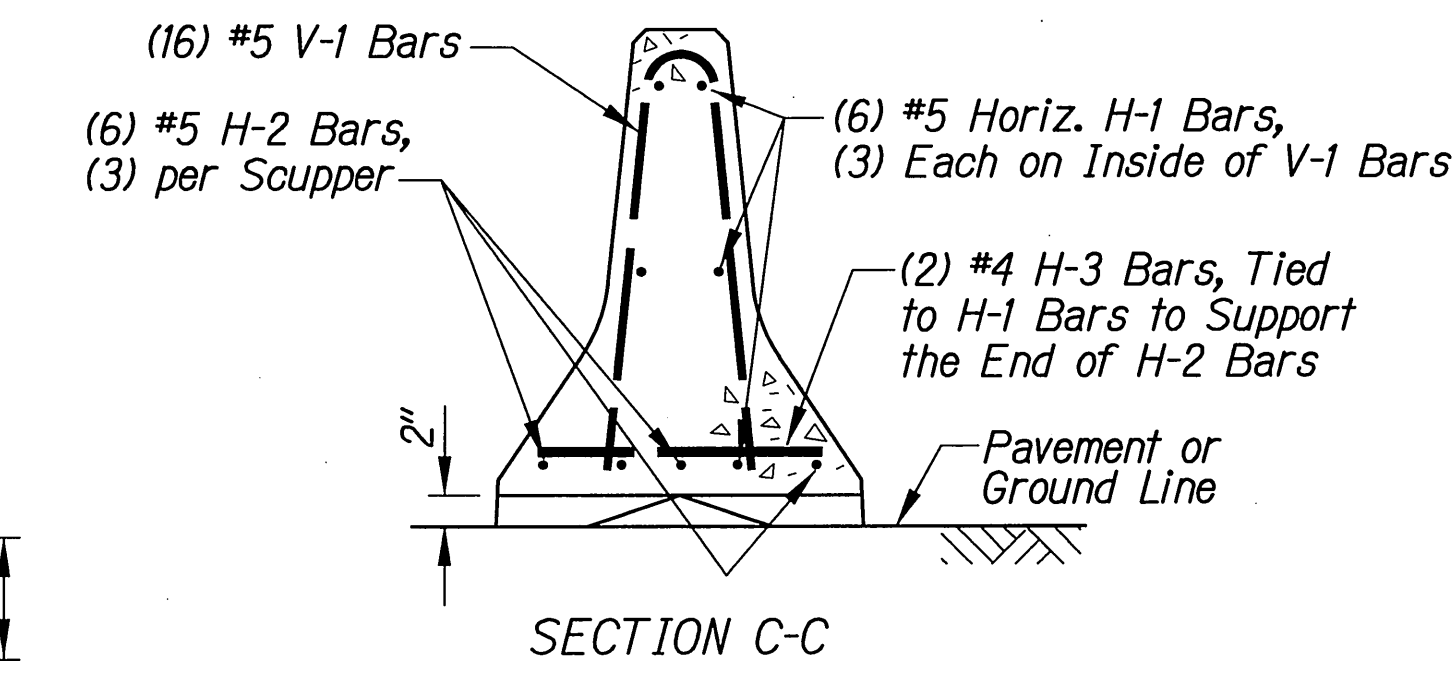
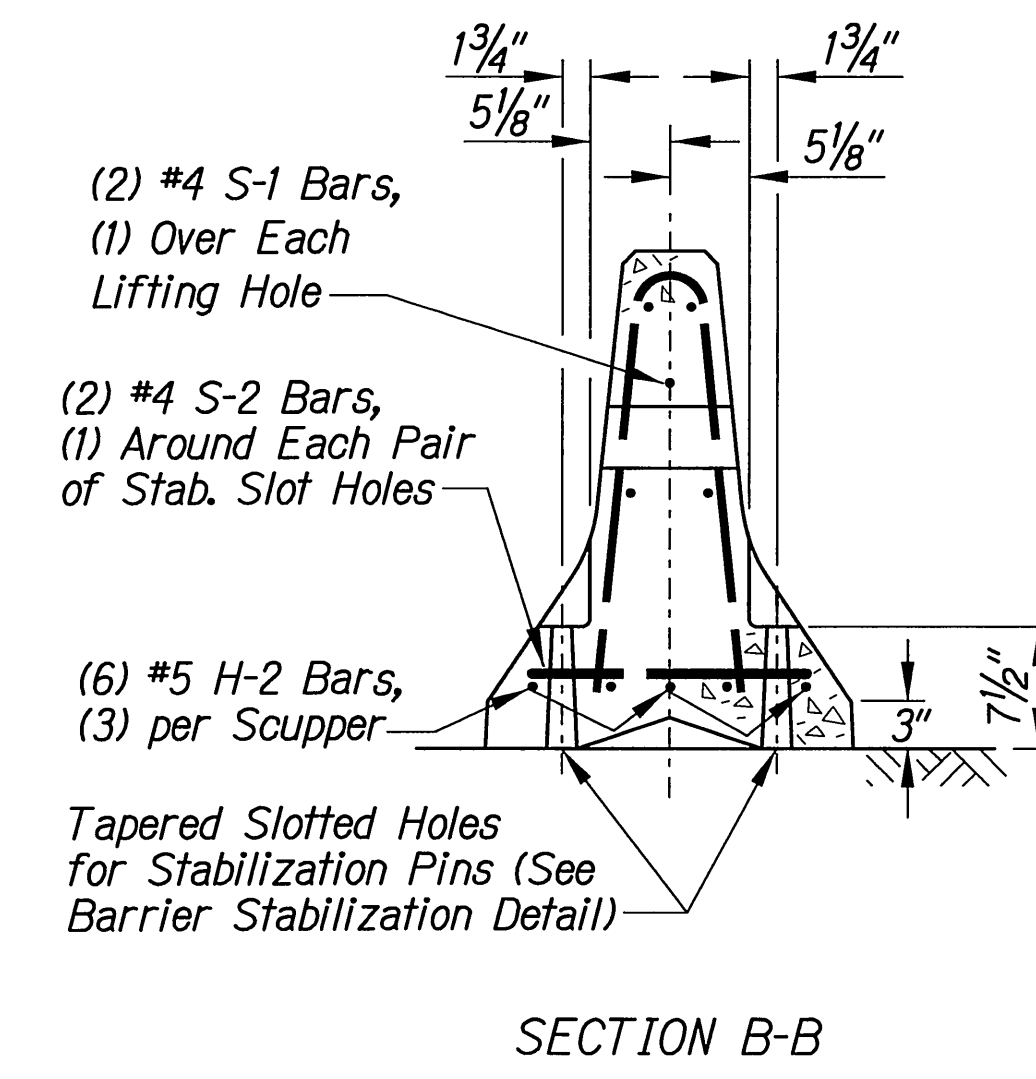
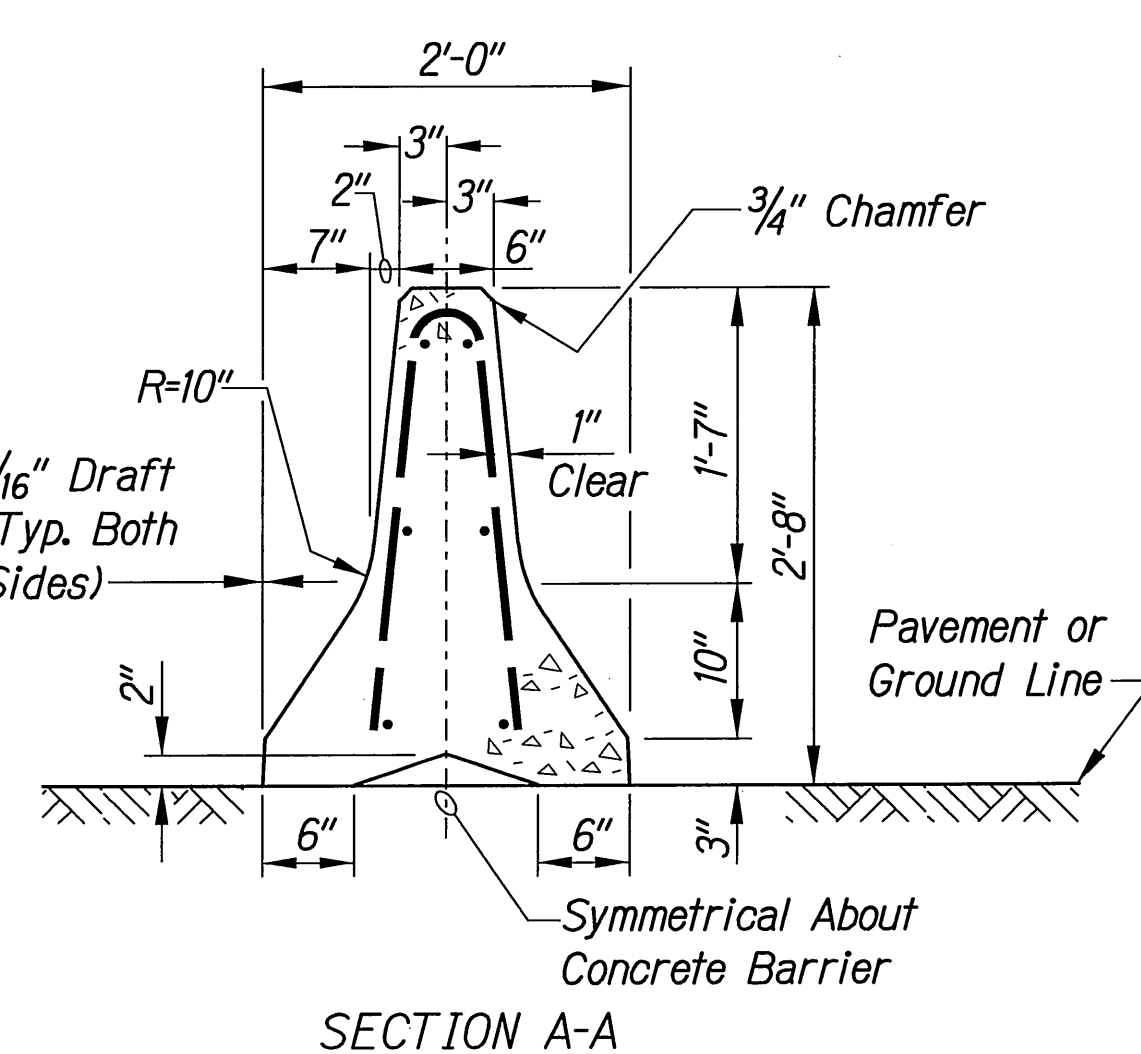
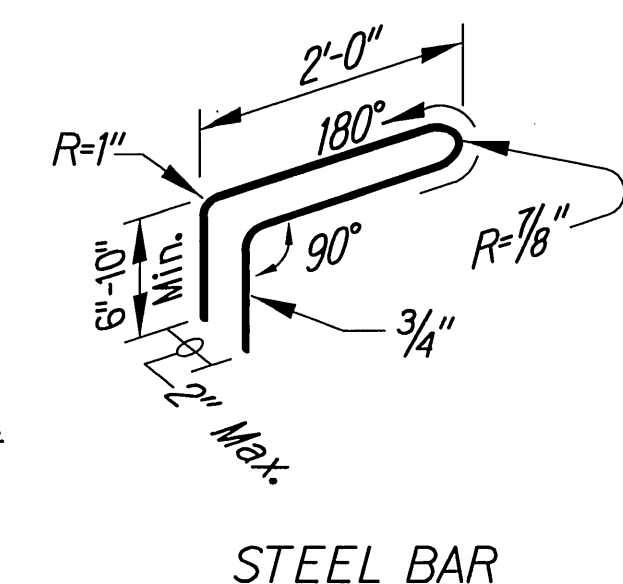
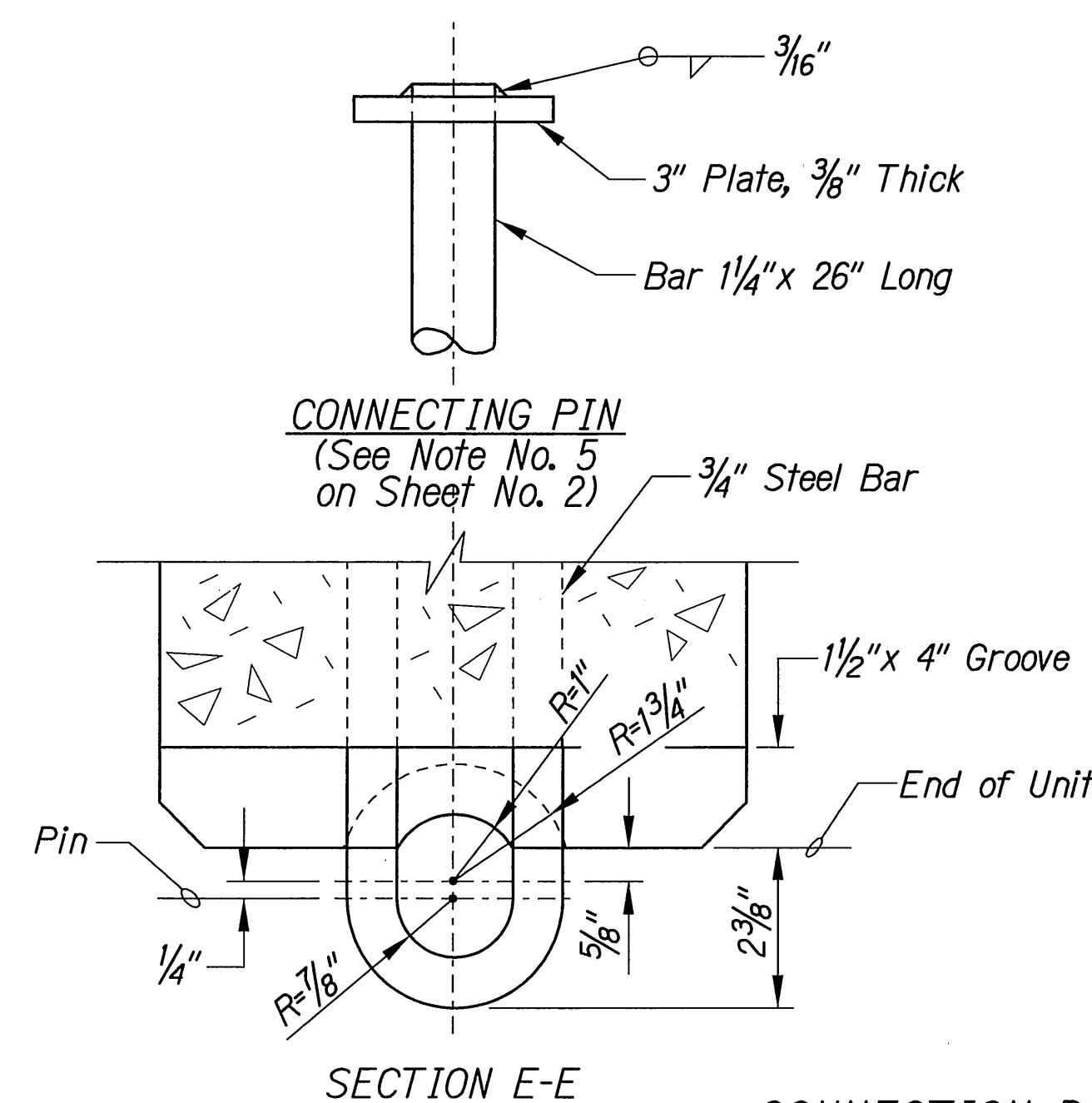
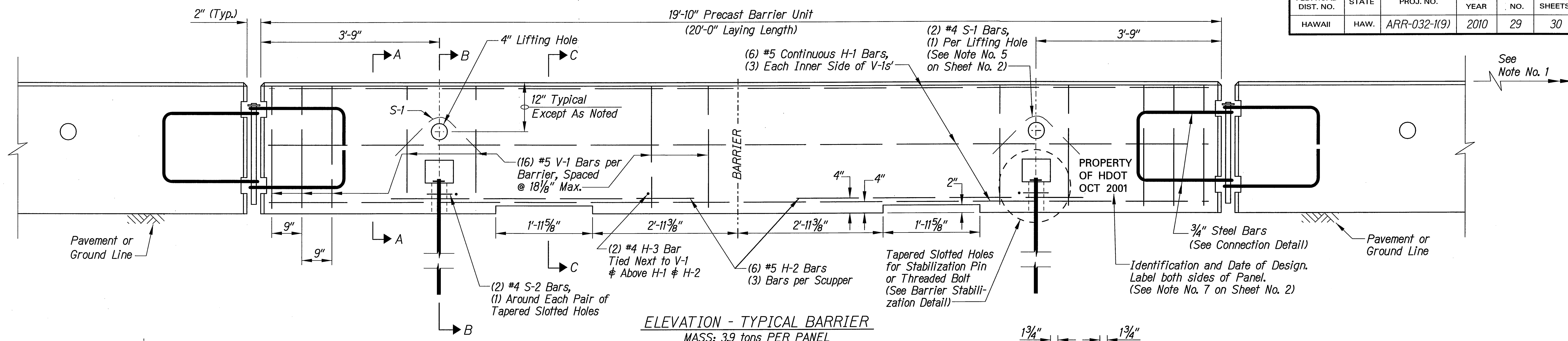
Scale: As Noted  
Date: Sept. 2009

SHEET No. 77 OF 9 SHEETS

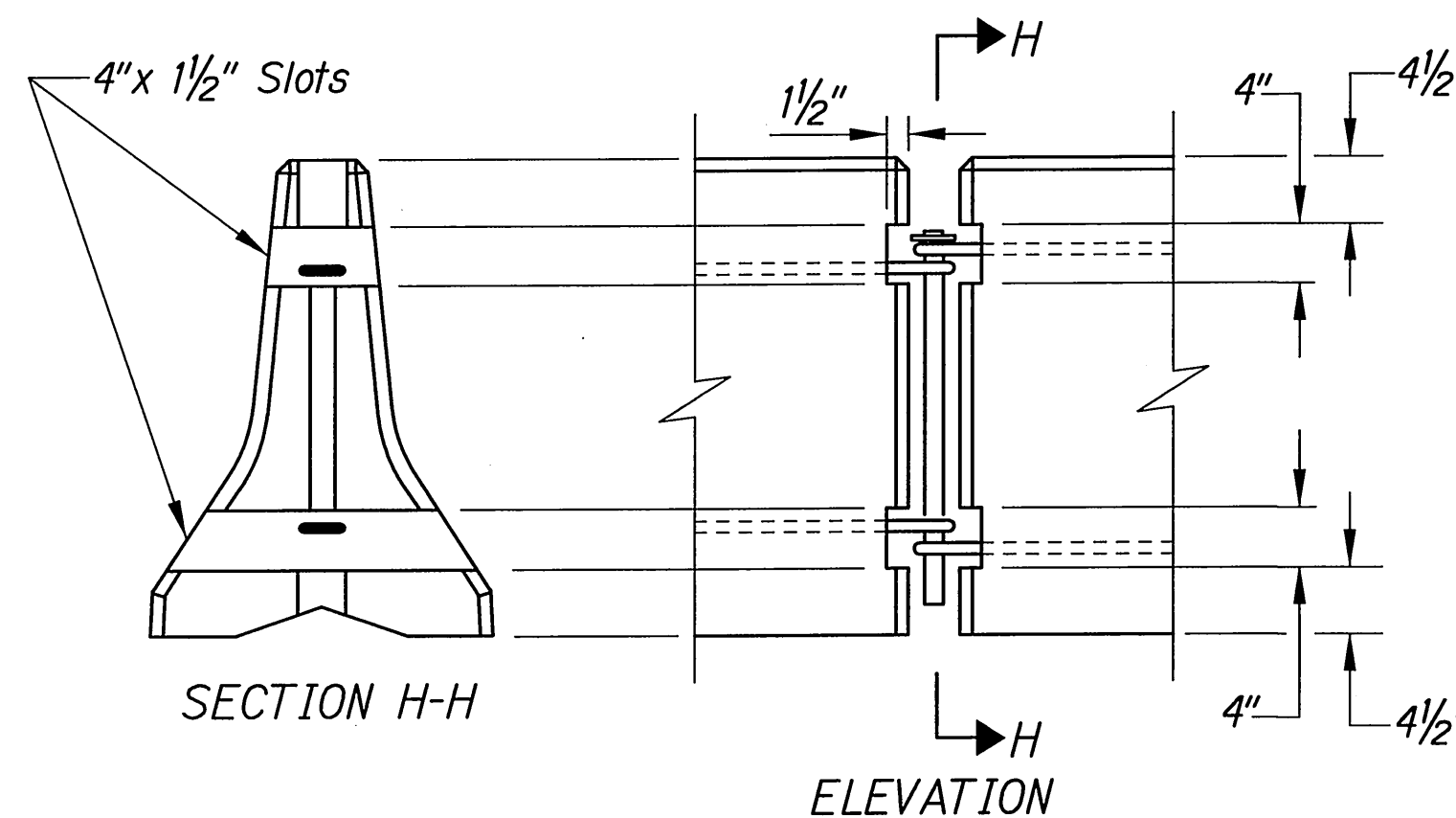
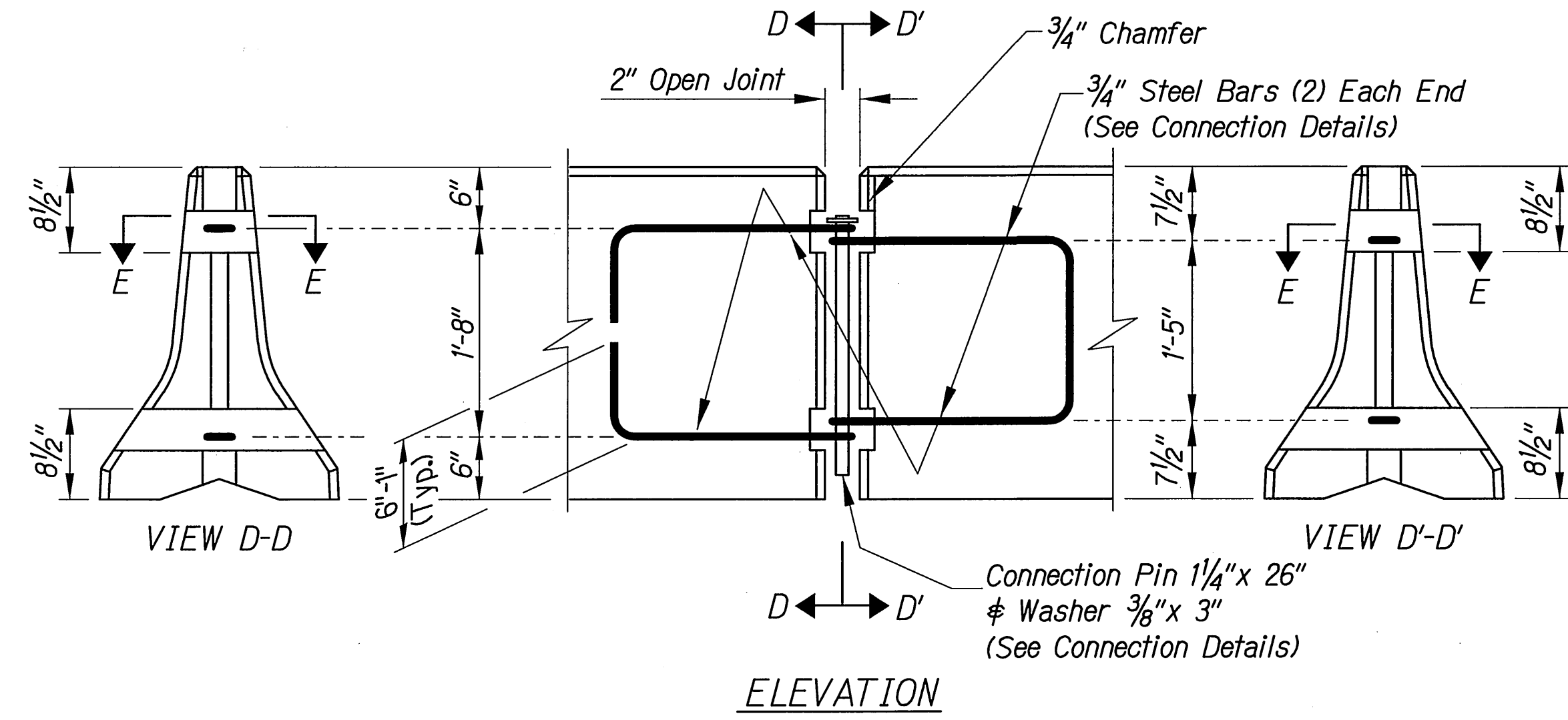
"AS-BUILT"



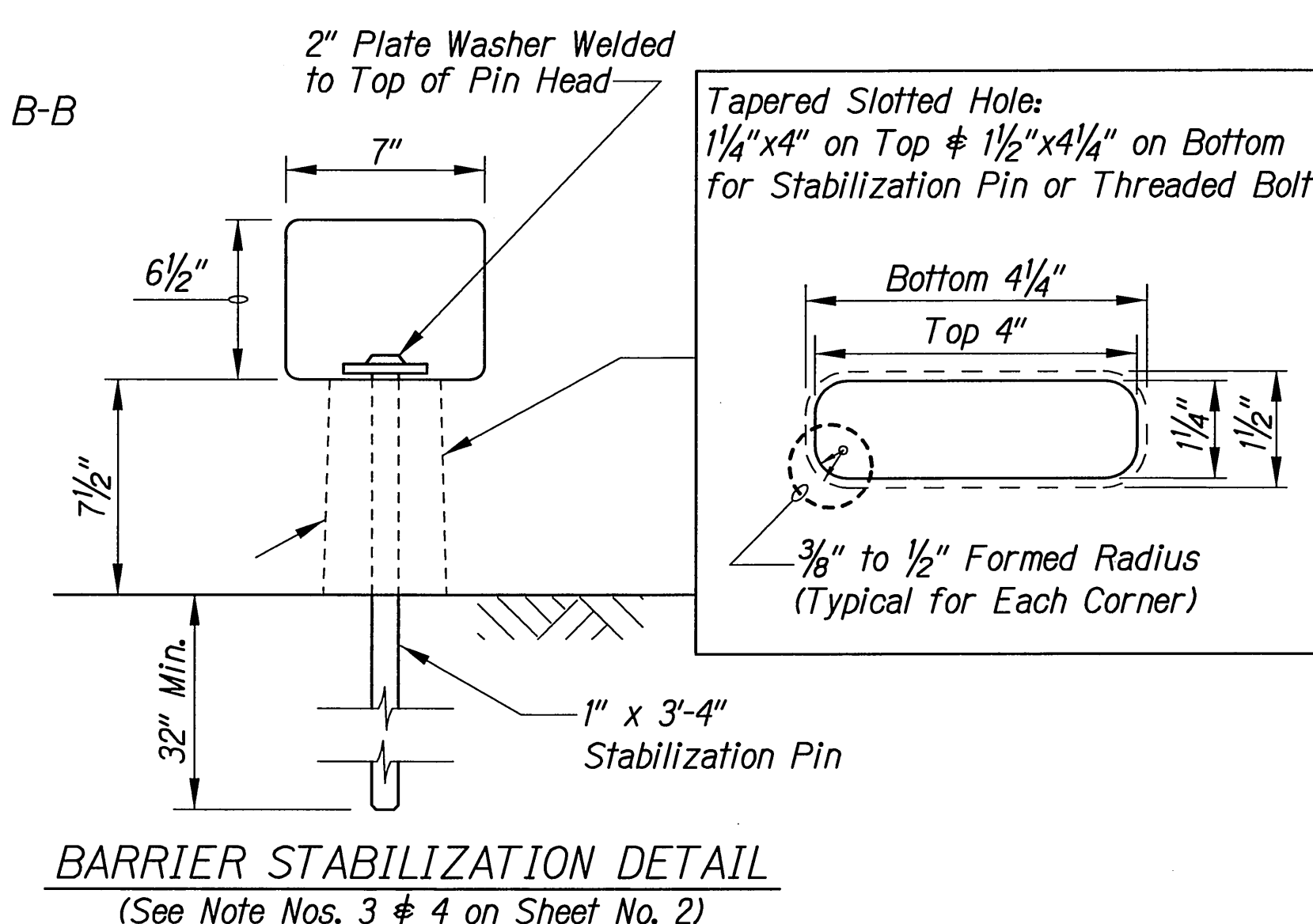
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-032-1(9)	2010	29	30



**CONNECTION DETAILS**  
(See Note No. 5 on Sheet No. 2)



**BARRIER REMOVAL SLOT DETAILS**



SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PORTABLE CONCRETE BARRIER**

**KAAHUMANU AVENUE**  
**Waiale road Overpass Repairs**  
**Federal Aid Project No. ARR-032-1(9)**

Not To Scale Date: Sept. 2009

SHEET No. 28 OF 9 SHEETS



