

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0901(3)	1993	16	30

LEGEND

- 4 each Type A Raised Pavement Markers
Type C Raised Pavement Markers @ 40'- 0" o.c.
- 4 each Type J Raised Pavement Markers
Type D Raised Pavement Markers @ 40'- 0" o.c.
- 8" White Stripe with Type C Raised Pavement Markers @ 20'-0"o.c. (Tape, Type I or Thermoplastic Extrusion)
- 4" Double Solid Yellow with Type D Raised Pavement Markers @ 20'- 0" o.c. (Tape, Type I or Thermoplastic Extrusion)
- 4" Double Solid Yellow Stripes with Type H Raised Pavement Markers @ 20'- 0" o.c. (Tape, Type II or Thermoplastic Extrusion)
- 4" Yellow Edge Stripe with Type H Raised Pavement Markers @ 40'- 0" o.c. (Tape, Type II or Thermoplastic Extrusion)
- 4" Double Solid White Stripes with Type C Raised Pavement Markers @ 20'- 0" o.c. (Tape, Type I or Thermoplastic Extrusion)
- Lane Change Restriction Marking
4 each Type A Raised Pavement Markers
Type C Raised Pavement Markers @ 20'- 0" o.c.
4" White Stripe (Tape, Type I or Thermoplastic Extrusion)
- 4" or 8" White Edge Stripe with Type C Raised Pavement Markers @ 40'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)
- 4" White Guide Lines (Tape, Type III or Thermoplastic Extrusion)
- Transverse Median Marking (Tape, Type II or Thermoplastic Extrusion)
- Transverse Shoulder Marking (Tape, Type II or Thermoplastic Extrusion)
- Channelizing Island or Deceleration Lane Gore (Tape, Type II or Thermoplastic Extrusion)
- Crosswalk and Stop Line. All Stop Lines shall be 10'- 0" from Crosswalk unless otherwise noted. The circled number indicates the number of lanes for payment. (Tape, Type III or Thermoplastic Extrusion)
- Pavement Arrow (Tape, Type III or Thermoplastic Extrusion)
- STOP Pavement Word (Tape, Type III or Thermoplastic Extrusion)
- 4 Each Type J Raised Pavement Markers
Type D Raised Pavement Markers @ 40'-0" o.c.
Type H Raised Pavement Markers (Reflective Surface facing no-passing direction)
4" Single Solid Yellow Stripe (Tape, Type I or Thermoplastic Extrusion)
- Extension of Edge Line, 4" Wide x 2'-0" Long White Stripe @ 10'-0" o.c. w/Type C Markers @ 40'-0" o.c. (Tape, Type III or Thermoplastic Extrusion)

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. Raised pavement markers shall not be installed within crosswalks.
4. Final locations of all signs shall be approved by the Engineer prior to any installation work.
5. 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.
6. Final locations of all Stop Lines shall be approved by the Engineer prior to installation.
7. All pavement striping shall be as noted on the Legend or plans.
8. 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.
9. Backing for all new Regulatory and Warning Signs shall not be spliced.
10. All sign panels shall conform to Section 621 of Special Provisions and the latest editions and amendments of the following FHWA publications:
 - a. "Manual on Uniform Traffic Control Devices for Streets and Highways" (MUTCD)
 - b. "Standard Highway Signs."
 - c. "Standard Alphabets for Highway Signs."
11. Borders, messages, arrows, symbols and shields shall conform to details as shown on the plans and as specified in the MUTCD.
12. Sign messages shall be as indicated on the plan.
13. All new and relocated signs and markers installed on pipe posts, light standard or expressway sign post are to be mounted with band brackets and steel braces.
14. Removal of Existing Delineators and Posts shall be considered incidental to the various signing items.
15. Other Construction and/or maintenance contract projects may be in operation within the limits of the contract. Coordination and scheduling of work will be determined by the Engineer.
16. Construction signs installed and/or posted by others shall be relocated and reinstalled as determined by the Engineer. Payment for this work shall be made under Item No. 645.0200 - Police Officers and/or Additional Traffic Control Devices.
17. The Contractor shall install construction signs as noted on the plans. At the Project completion, these signs and posts shall become the property of the State. The Contractor shall remove and deliver these signs and posts to a location as directed by the Engineer. The contract price paid shall be full compensation for all excavation and backfilling, for furnishing, installing, removing and delivering all materials and for all equipment, tools, labor and incidentals necessary to complete the work.

DATE
SURVEY PLOTTED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
ORIGINAL PLAN
NOTE BOOK
No.

5/5/93	Revised Legend to Include Tape, Type III.
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DATE	REVISION
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

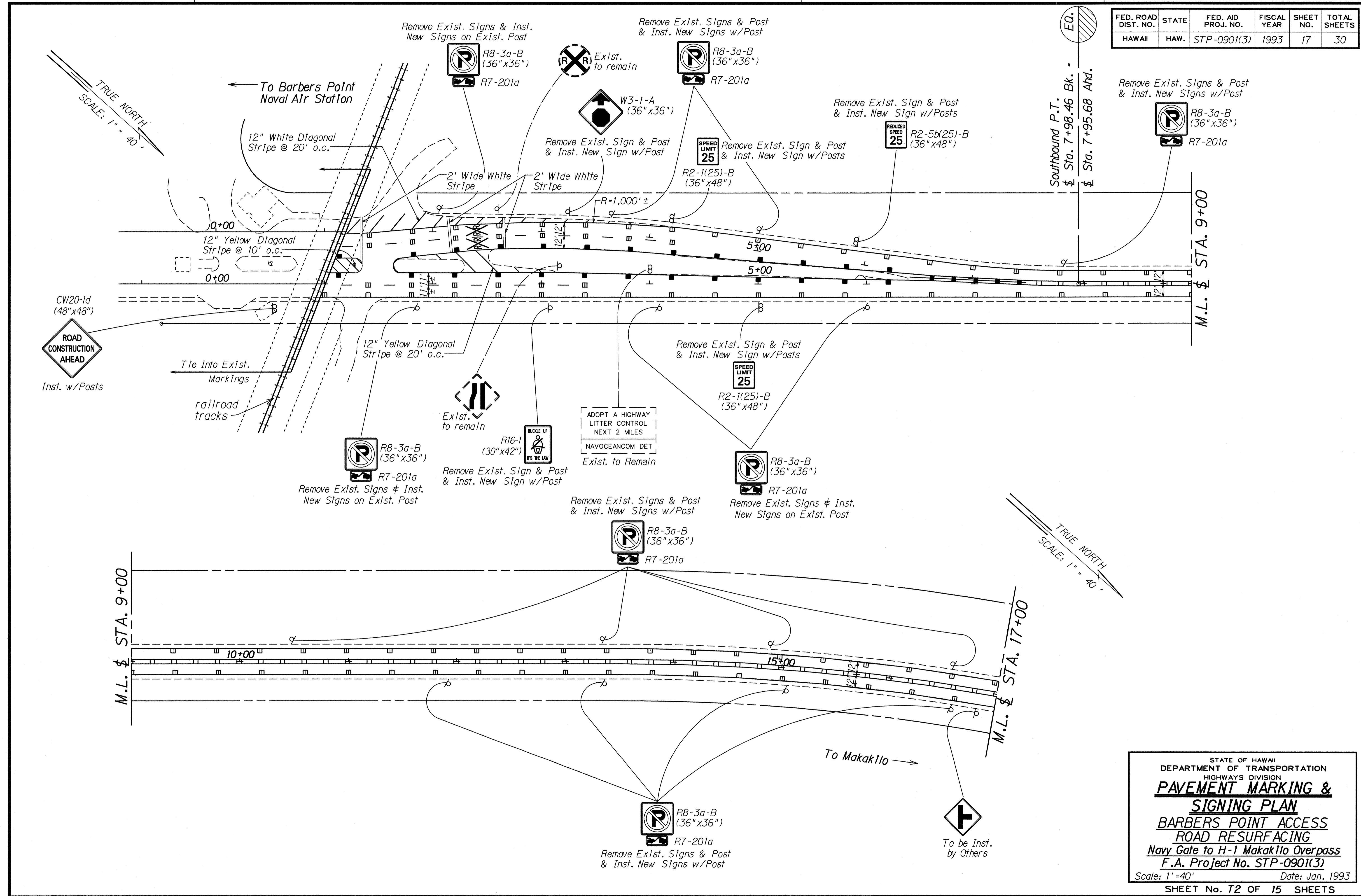
PAVEMENT MARKING
LEGEND, DETAILS & NOTES

BARBERS POINT ACCESS
ROAD RESURFACING
Navy Gate to H-1 Makakilo Overpass
F.A. Project No. STP-0901(3)

Date: Jan. 1993

SHEET No. 11 OF 15 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0901(3)	1993	17	30



TRUE NORTH
SCALE: 1" = 40'

Southbound P.T.
Sta. 7+98.46 Bk. -
Sta. 7+95.68 Abd.

CW20-1d
(48"x48")
ROAD CONSTRUCTION AHEAD
Inst. w/Posts

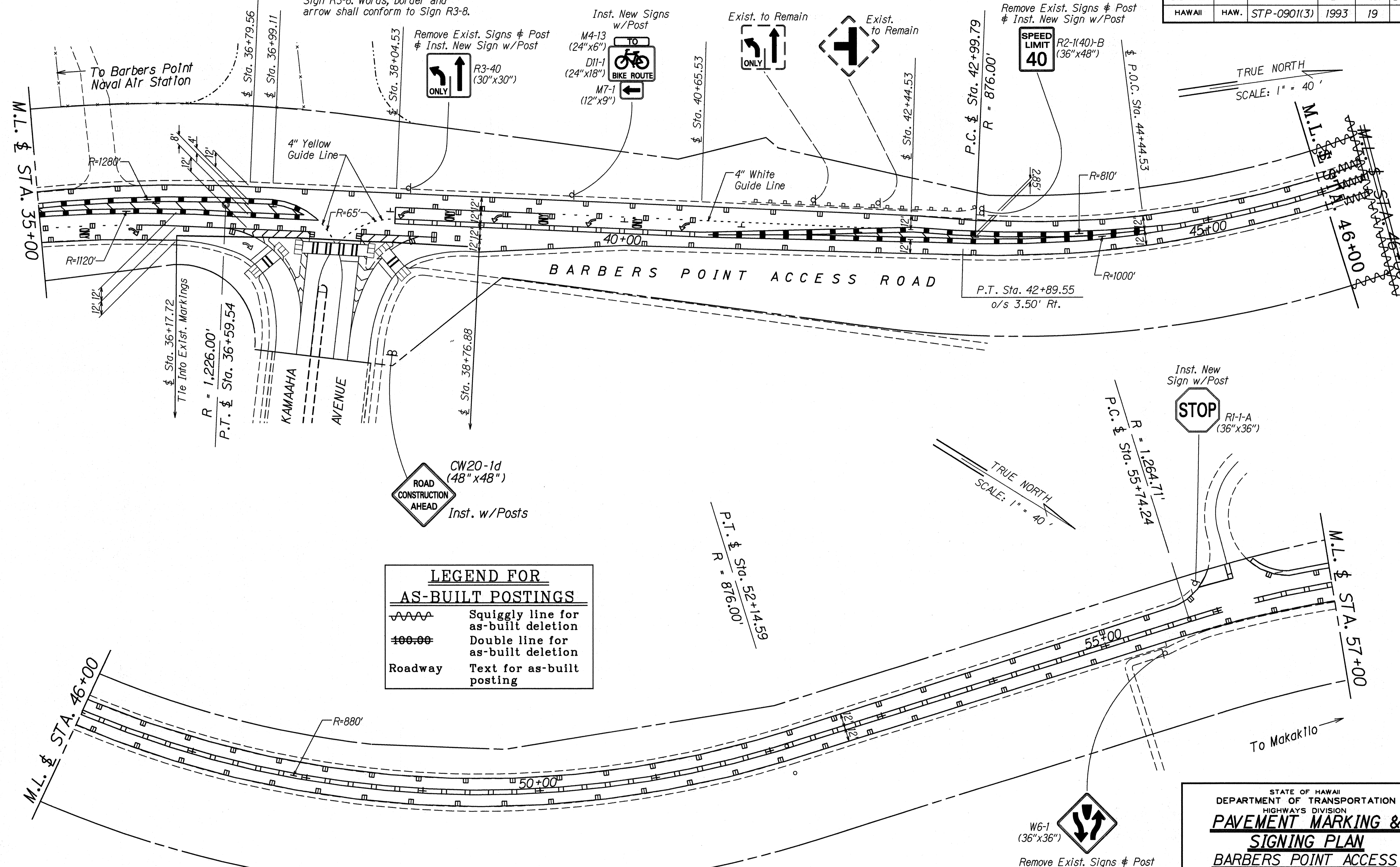
TRUE NORTH
SCALE: 1" = 40'

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PAVEMENT MARKING & SIGNING PLAN
BARBERS POINT ACCESS
ROAD RESURFACING
Navy Gate to H-1 Makakilo Overpass
F.A. Project No. STP-0901(3)
Scale: 1" = 40' Date: Jan. 1993
SHEET No. T2 OF 15 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0901(3)	1993	19	30

NOTE: Sign R3-40 is a variation of Sign R3-8. Words, border and arrow shall conform to Sign R3-8.



LEGEND FOR AS-BUILT POSTINGS

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

DATE	
SURVEY PLOTTED BY	
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
NO.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

BARBERS POINT ACCESS ROAD RESURFACING

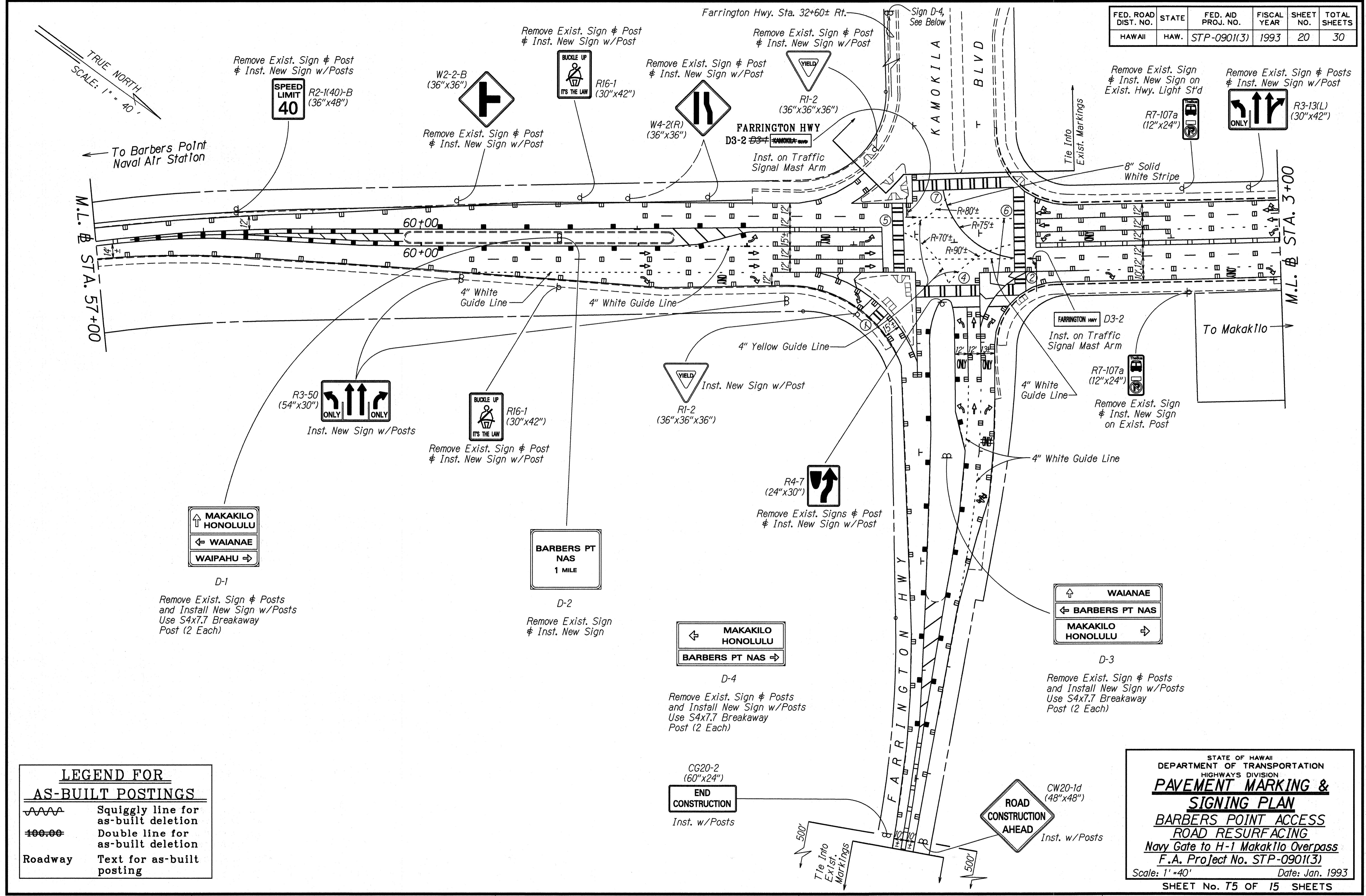
Navy Gate to H-1 Makakilo Overpass

F.A. Project No. STP-0901(3)

Scale: 1" = 40' Date: Jan. 1993

SHEET No. T4 OF 15 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0901(3)	1993	20	30



LEGEND FOR AS-BUILT POSTINGS

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

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

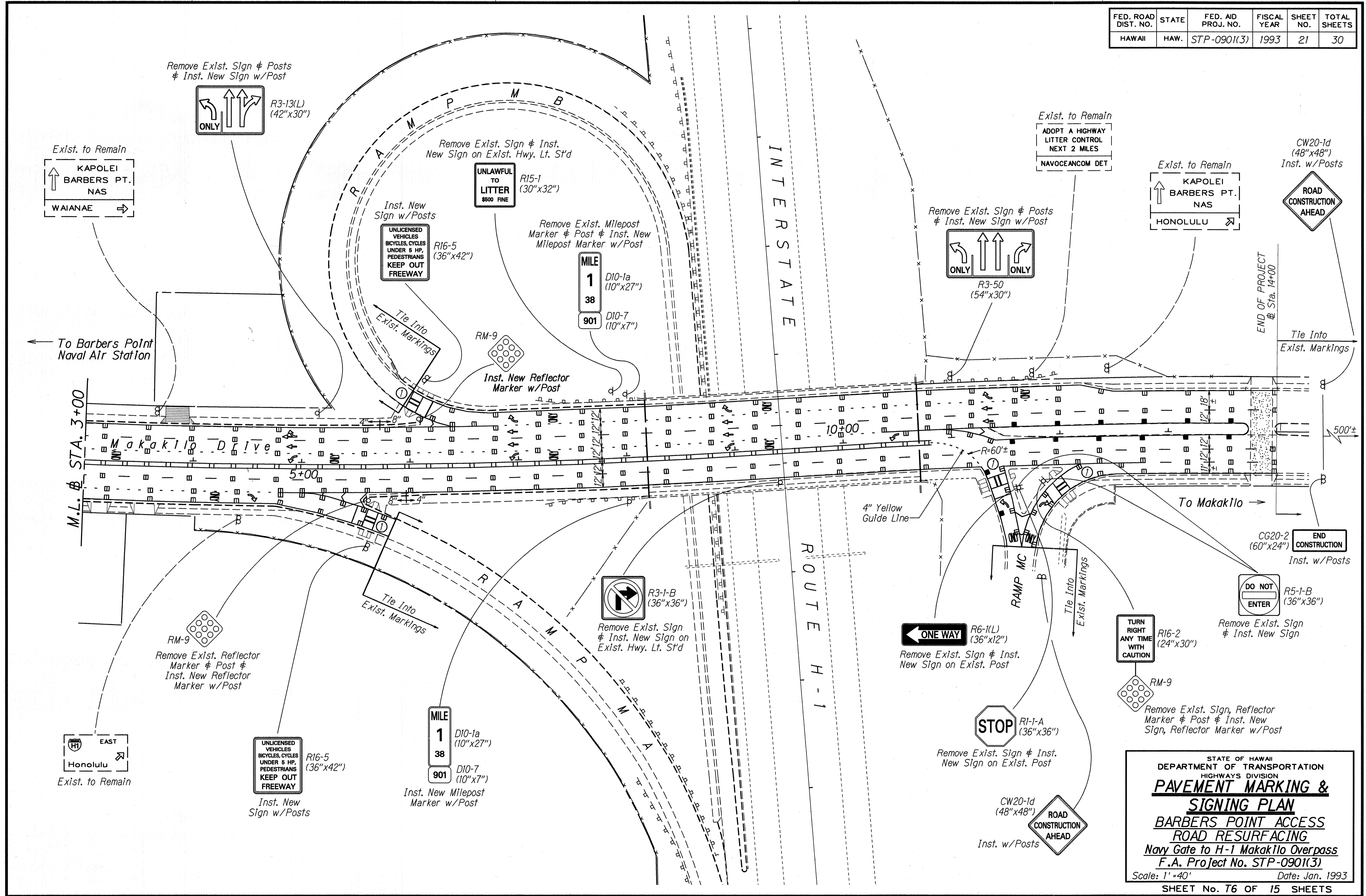
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

BARBERS POINT ACCESS ROAD RESURFACING
Navy Gate to H-1 Makakilo Overpass
F.A. Project No. STP-0901(3)

Scale: 1" = 40' Date: Jan. 1993
SHEET No. 15 OF 15 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0901(3)	1993	21	30



SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

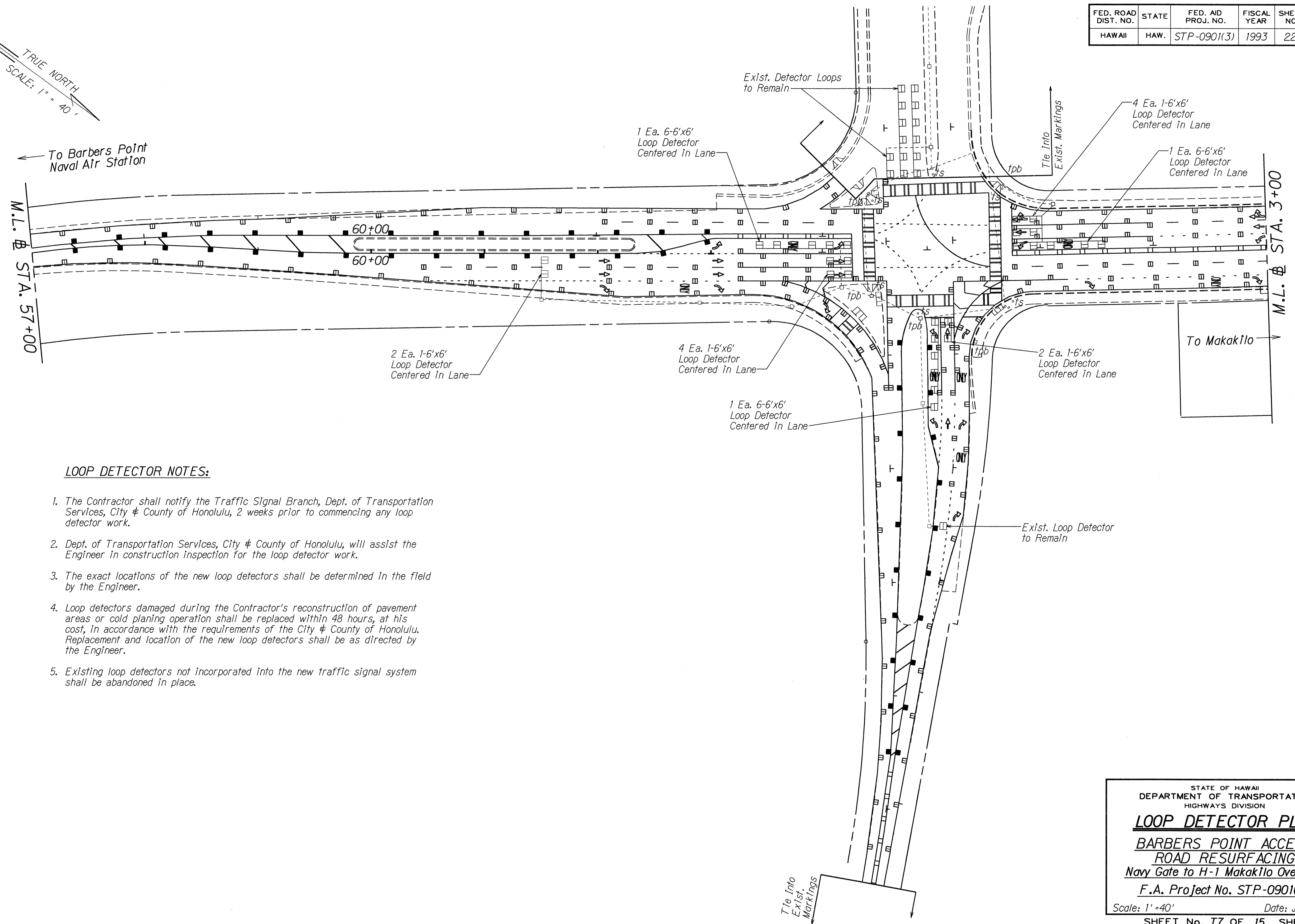
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PAVEMENT MARKING & SIGNING PLAN
BARBERS POINT ACCESS
ROAD RESURFACING
Navy Gate to H-1 Makakilo Overpass
F.A. Project No. STP-0901(3)
Scale: 1" = 40' Date: Jan. 1993
SHEET No. T6 OF 15 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0901(3)	1993	22	30

TRUE NORTH
SCALE: 1" = 40'

To Barbers Point
Naval Air Station

M.L. # STA. 57+00



M.L. # STA. 3+00

To Makakilo

LOOP DETECTOR NOTES:

1. The Contractor shall notify the Traffic Signal Branch, Dept. of Transportation Services, City & County of Honolulu, 2 weeks prior to commencing any loop detector work.
2. Dept. of Transportation Services, City & County of Honolulu, will assist the Engineer in construction inspection for the loop detector work.
3. The exact locations of the new loop detectors shall be determined in the field by the Engineer.
4. Loop detectors damaged during the Contractor's reconstruction of pavement areas or cold planing operation shall be replaced within 48 hours, at his cost, in accordance with the requirements of the City & County of Honolulu. Replacement and location of the new loop detectors shall be as directed by the Engineer.
5. Existing loop detectors not incorporated into the new traffic signal system shall be abandoned in place.

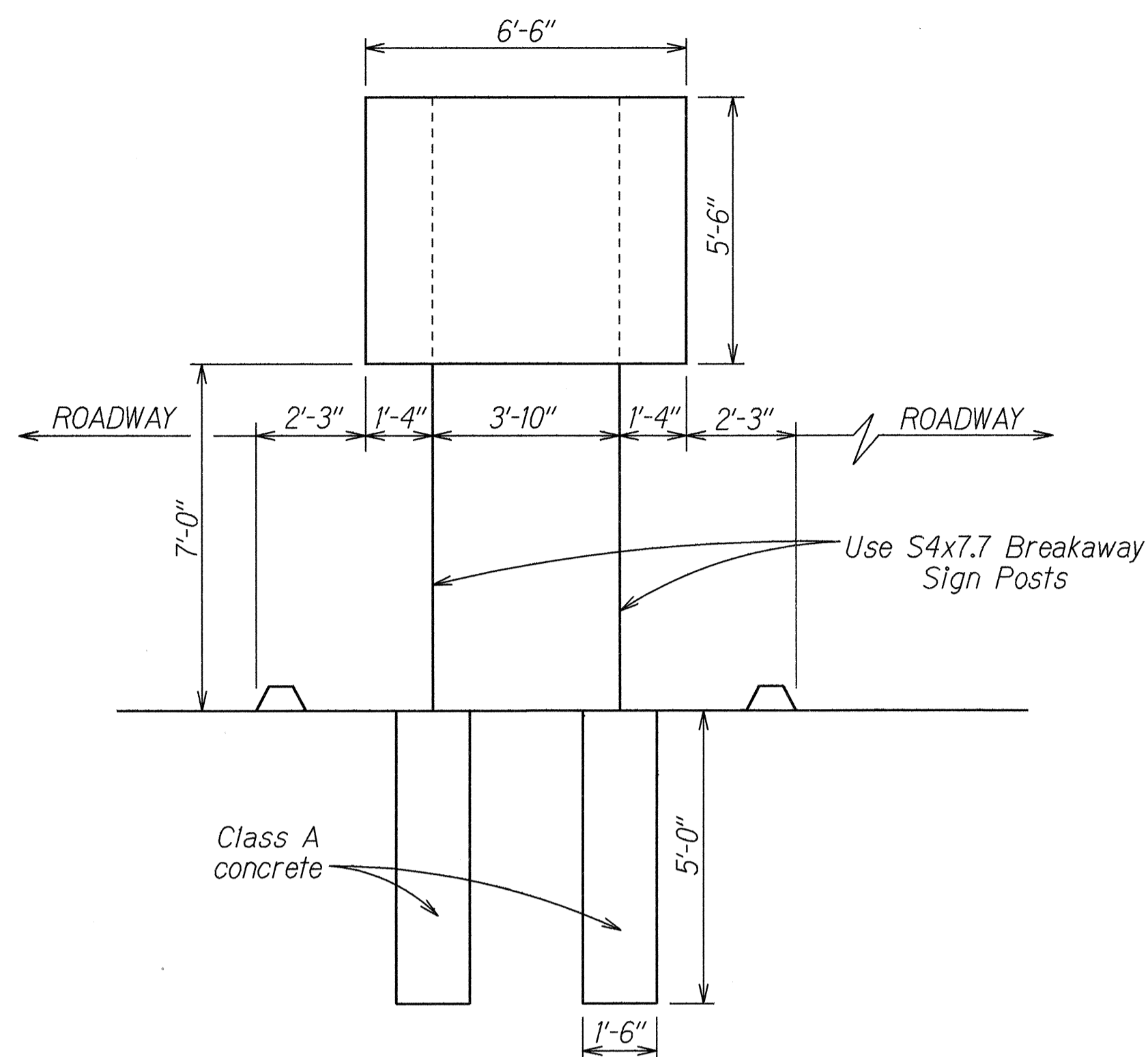
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NO. _____	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

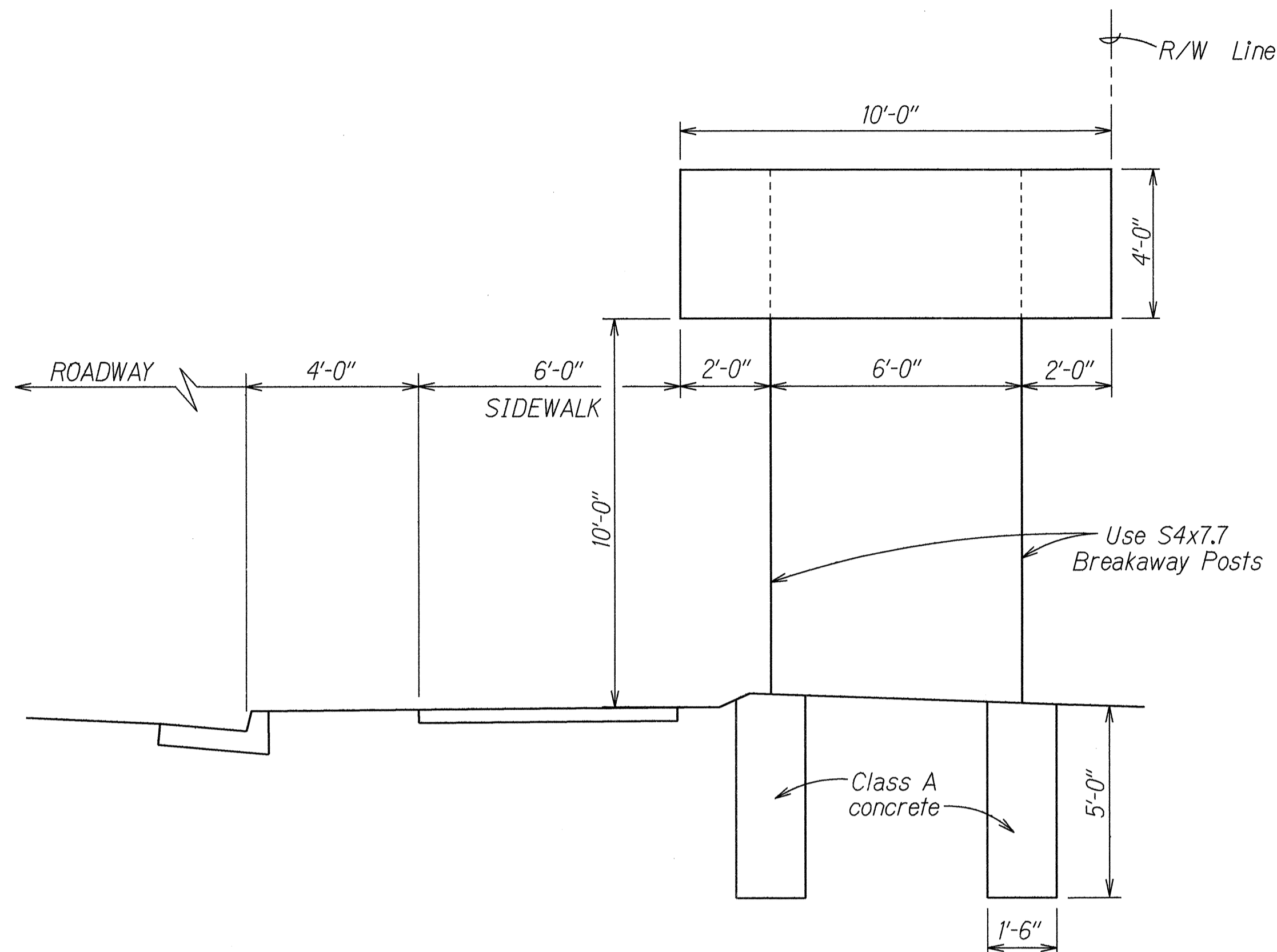
LOOP DETECTOR PLAN
BARBERS POINT ACCESS
ROAD RESURFACING
Navy Gate to H-1 Makakilo Overpass
F.A. Project No. STP-0901(3)

Scale: 1" = 40' Date: Jan. 1993
SHEET No. 17 OF 15 SHEETS

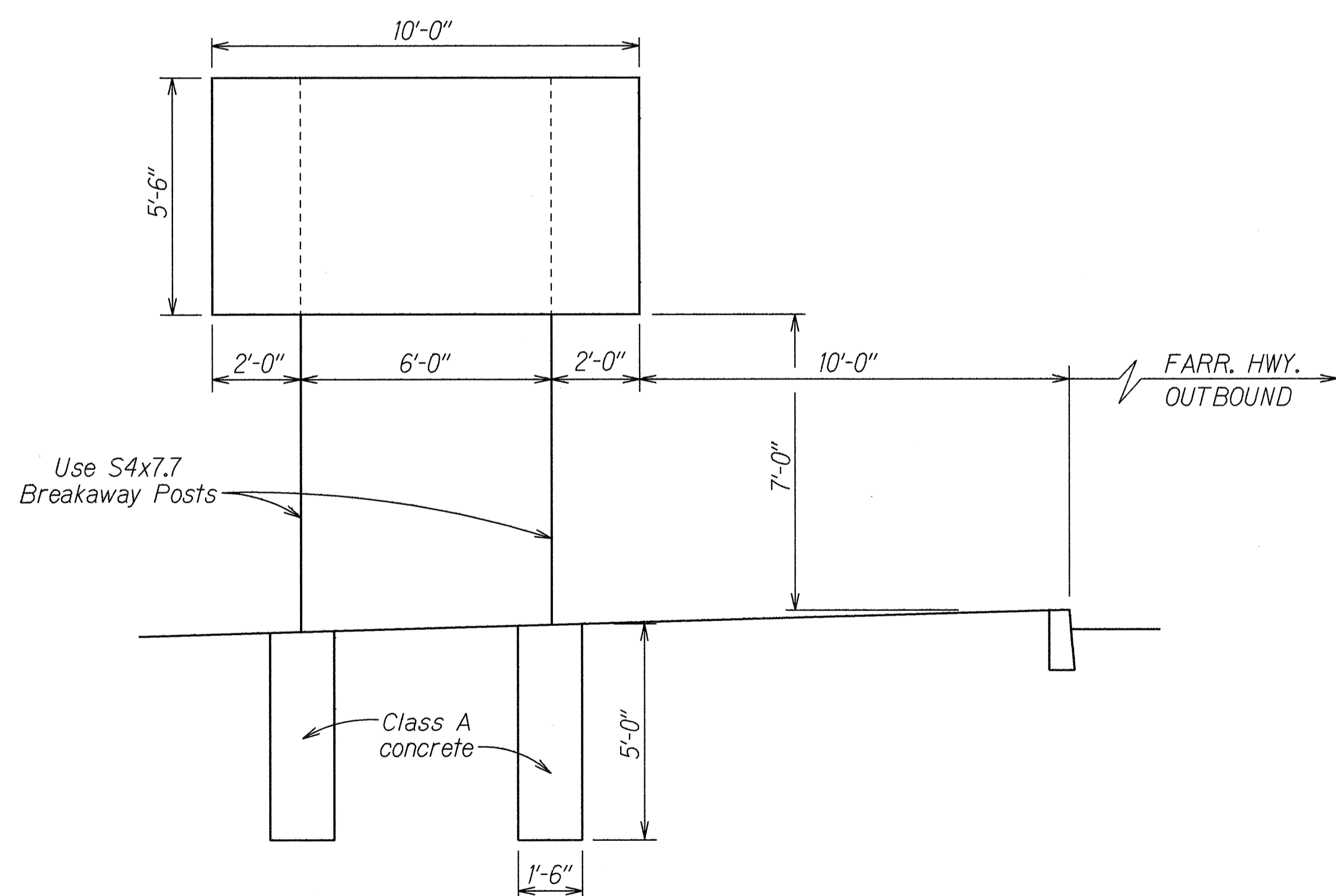
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0901(3)	1993	23	30



D-1 & D-2
STA. 61+40
BARBERS POINT ACCESS ROAD



D-4
STA. 32+60± RT.
FARRINGTON HIGHWAY



D-3
STA. 40+15
FARRINGTON HIGHWAY

ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
N.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

FRAME LAYOUT

**BARBERS POINT ACCESS
ROAD RESURFACING**

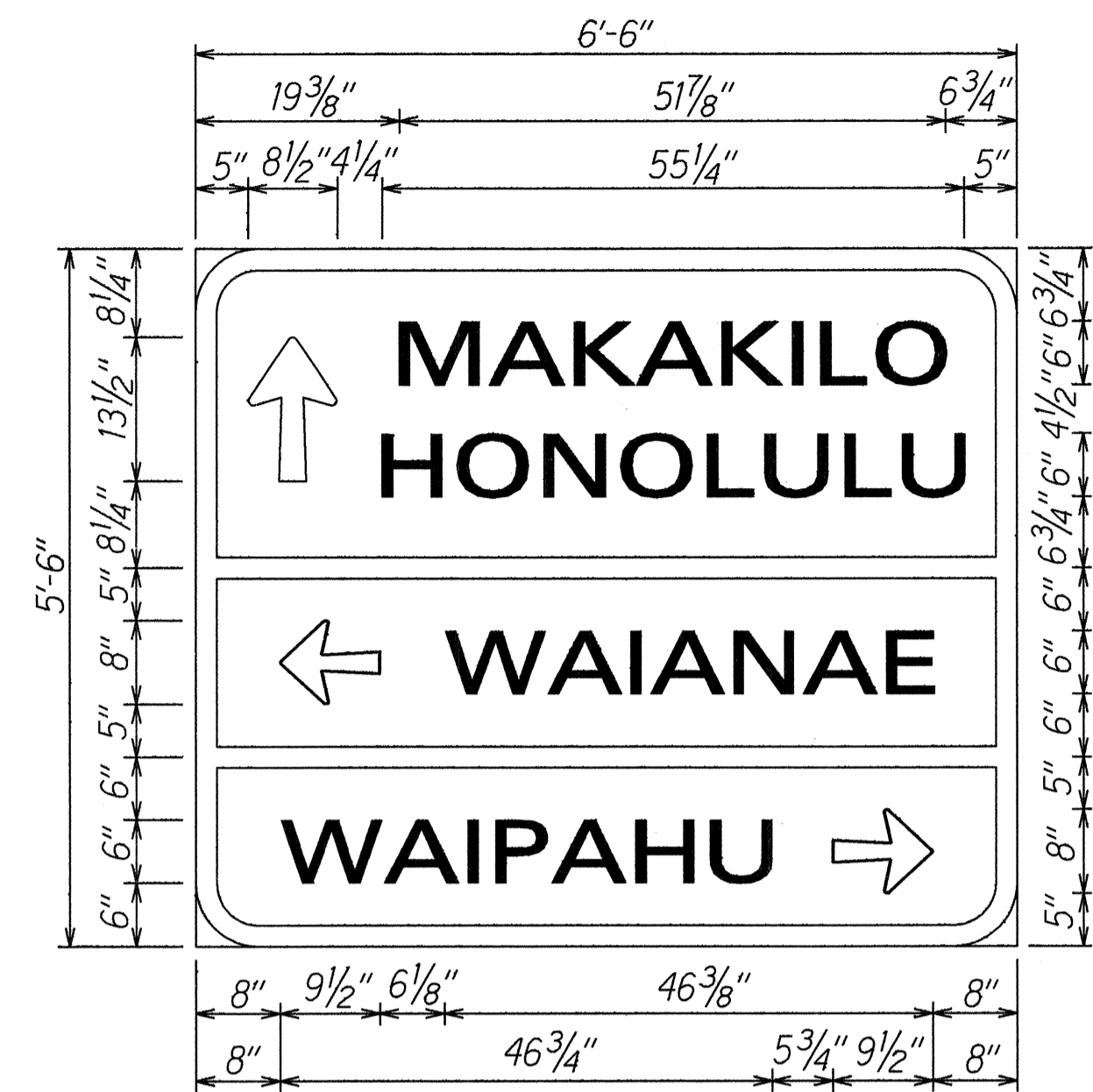
Navy Gate to H-1 Makakilo Overpass

F.A. Project No. STP-0901(3)

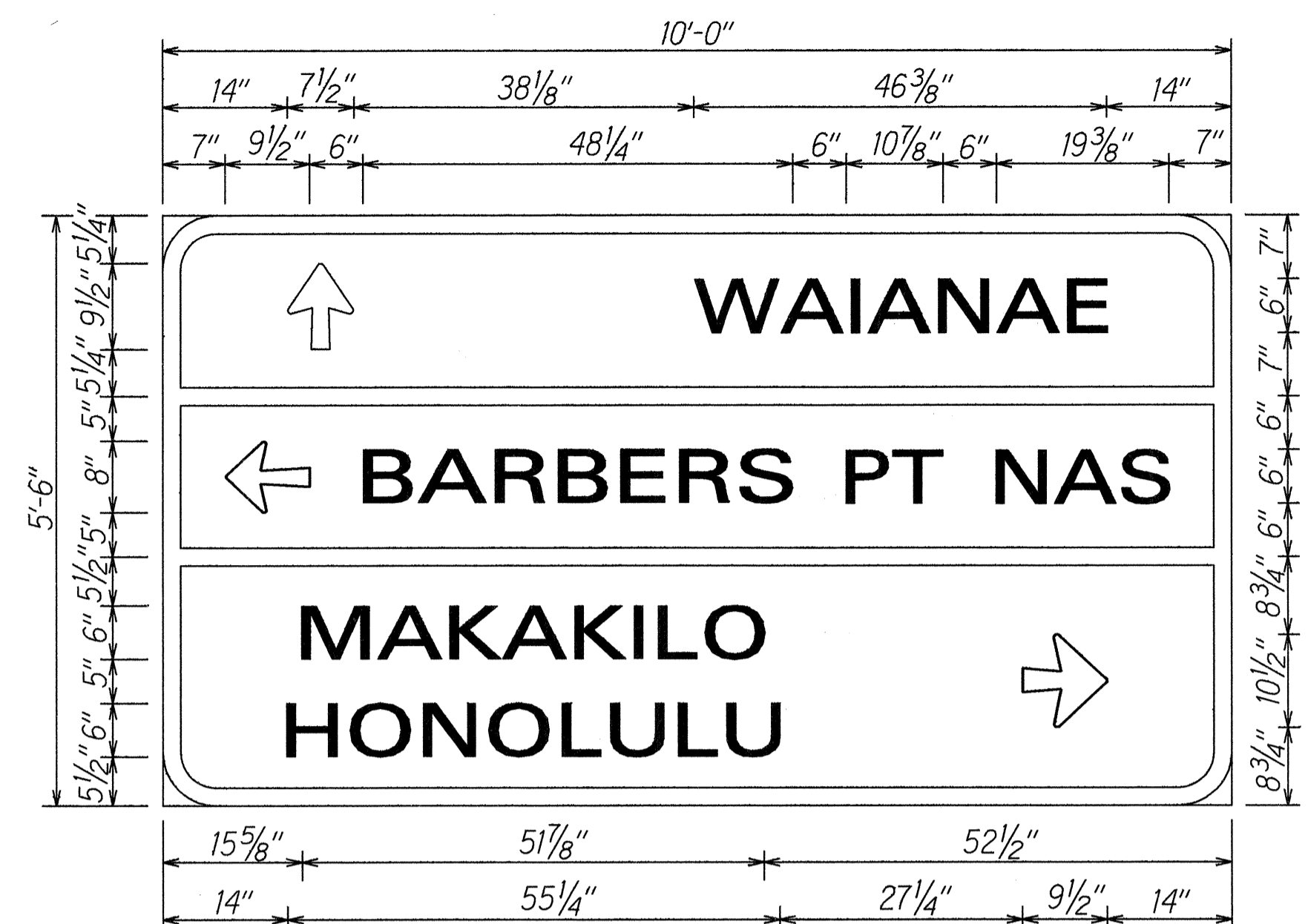
Scale: 3/8" = 1'-0" Date: Jan. 1993

SHEET No. T8 OF 15 SHEETS

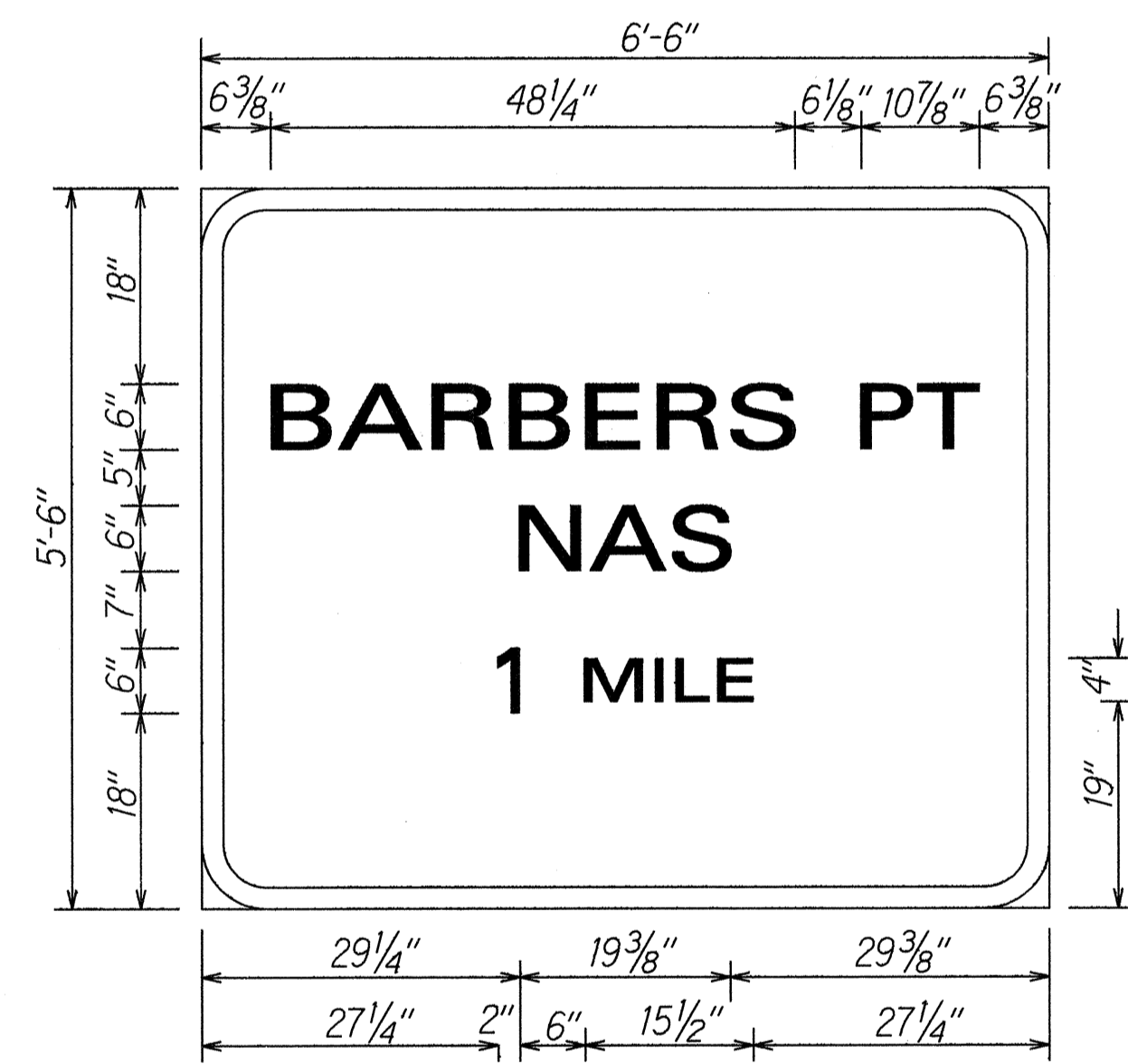
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0901(3)	1993	24	30



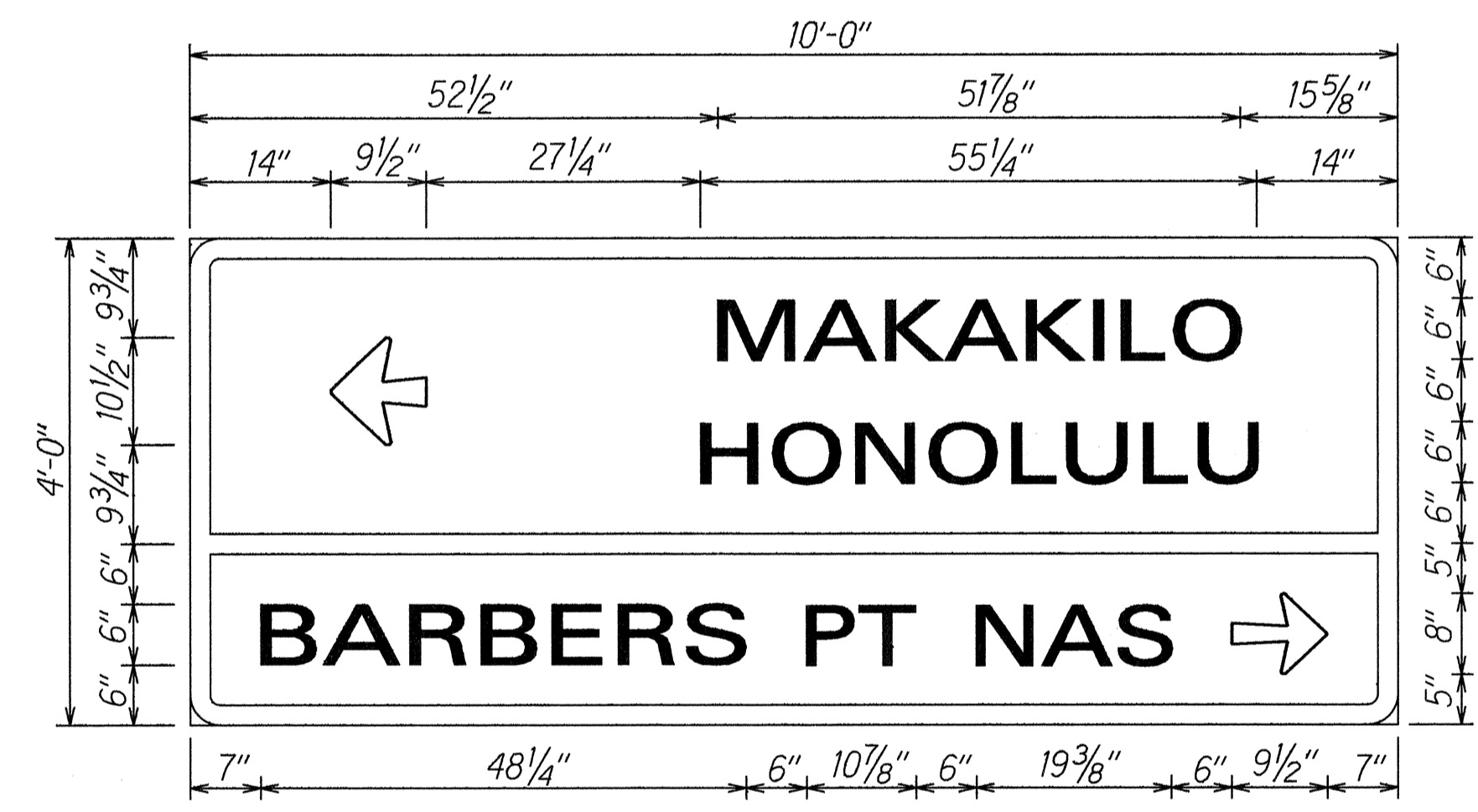
D-1



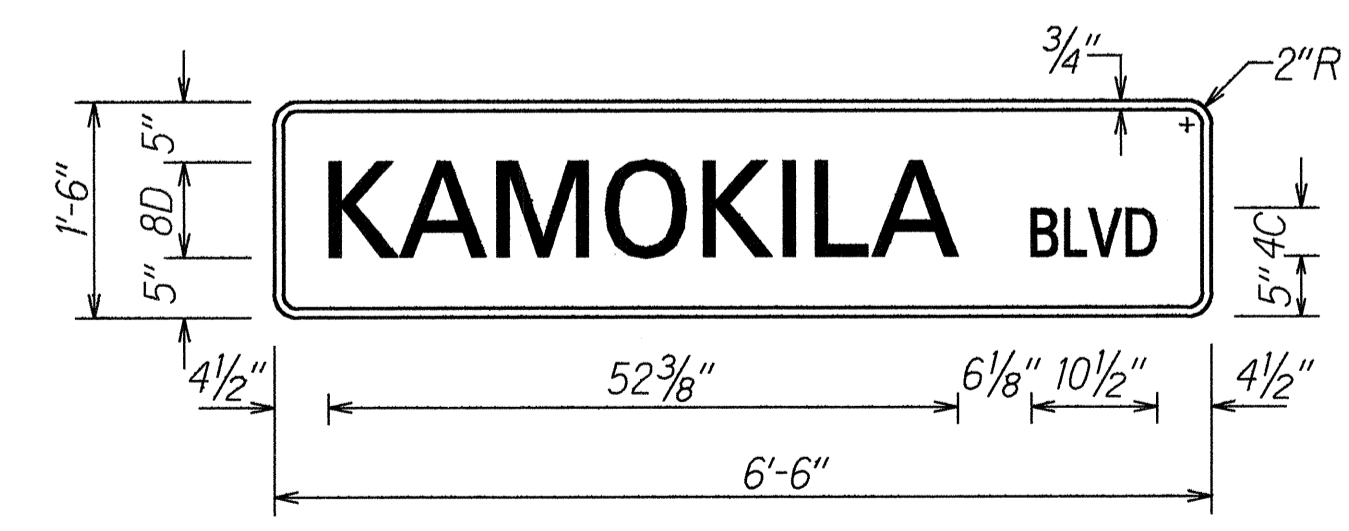
D-3



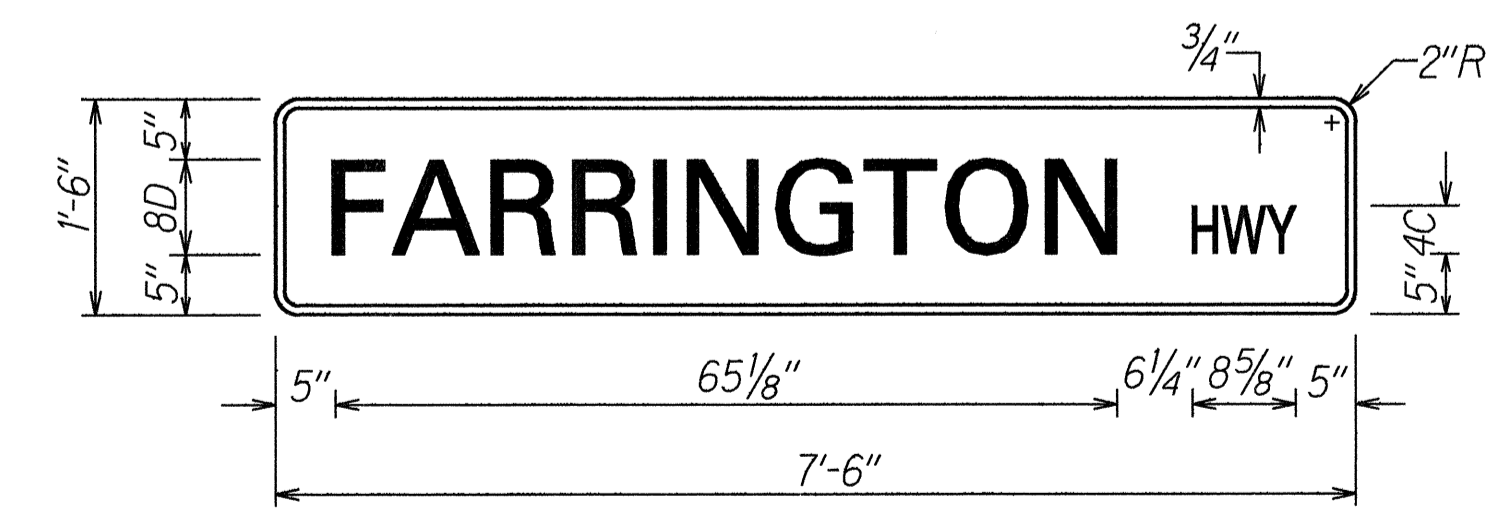
D-2



D-4



D3-1



D3-2

DESTINATION (D) SIGN NOTES

- Background for destination (D) sign panels shall be reflectorized with Type III or IV retroreflective sheeting (High Intensity or High Performance Grade).
- The message, arrows and borders of destination (D) sign panels shall be reflectorized with porcelain enameled aluminum cut-outs with acrylic plastic reflex reflectors or Type III or IV retroreflective sheeting (High Intensity or High Performance Grade).
- The Contractor shall verify the locations and dimensions of existing Sign Panels and supports.
- New sign panels shall be laminated aluminum or extruded aluminum.
- Letter Size:
 - When letters are all uppercase, use series "E"
 - When initial uppercase letter is used in conjunction with lowercase letters, use series "E"(M) for uppercase
- The Contractor shall submit all sign splicing details to the Engineer for approval. All backing for signs 4 feet by 6 feet or less shall be of one sheet.
- Destination Sign Posts shall be as noted on the plans.
- Incidental parts and services not shown on the plans or specified but deemed necessary for the sign installation shall be furnished and installed by the Contractor as part of the work contracted.
- Removal and disposal of existing sign panels, posts with foundation will not be paid for separately, but shall be considered incidental to the various signing items.

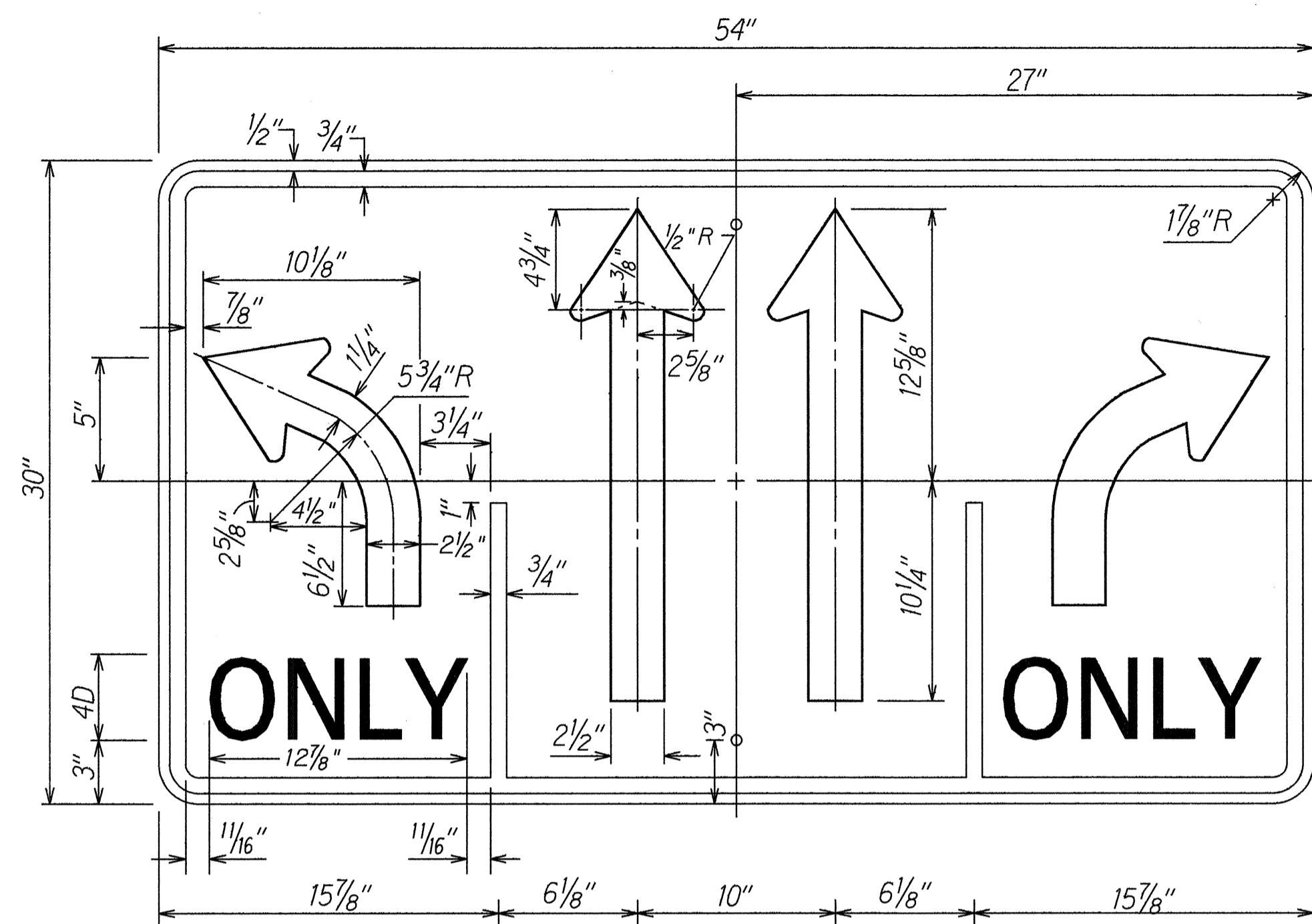
STREET NAME (D3) SIGN NOTES:

- Provide the same message on the front and back side of the sign. Payment will not be made separately but shall be considered as one unit.
- Colors:
 - Legend - White (Reflectorized)
 - Background - Green (Reflectorized)
- All panels shall be reflectorized with Type III or IV retroreflective sheeting (High Intensity or High Performance Grade).
- All signs shall conform to section 621 of the standard Specifications and the latest editions and amendments of the following FHWA publications:
 - "Manual on Uniform Traffic Control Devices for Streets and Highways" (MUTCD)
 - "Standard Highway Signs"
 - "Standard Alphabets for Highway Signs"
- Borders and messages shall conform to details as shown on the plans and as specified in the MUTCD.
- Sign mounting brackets, fixtures, fasteners and all necessary hardware, and equipment, tools, labor, materials and other incidentals for installation, will not be paid for separately but shall be considered incidental to street name sign installation.
- Install Street Name Signs on Traffic Signal Mast Arm.
- All panels longer than 8'-0" shall be installed with three (3) sign mounting brackets.

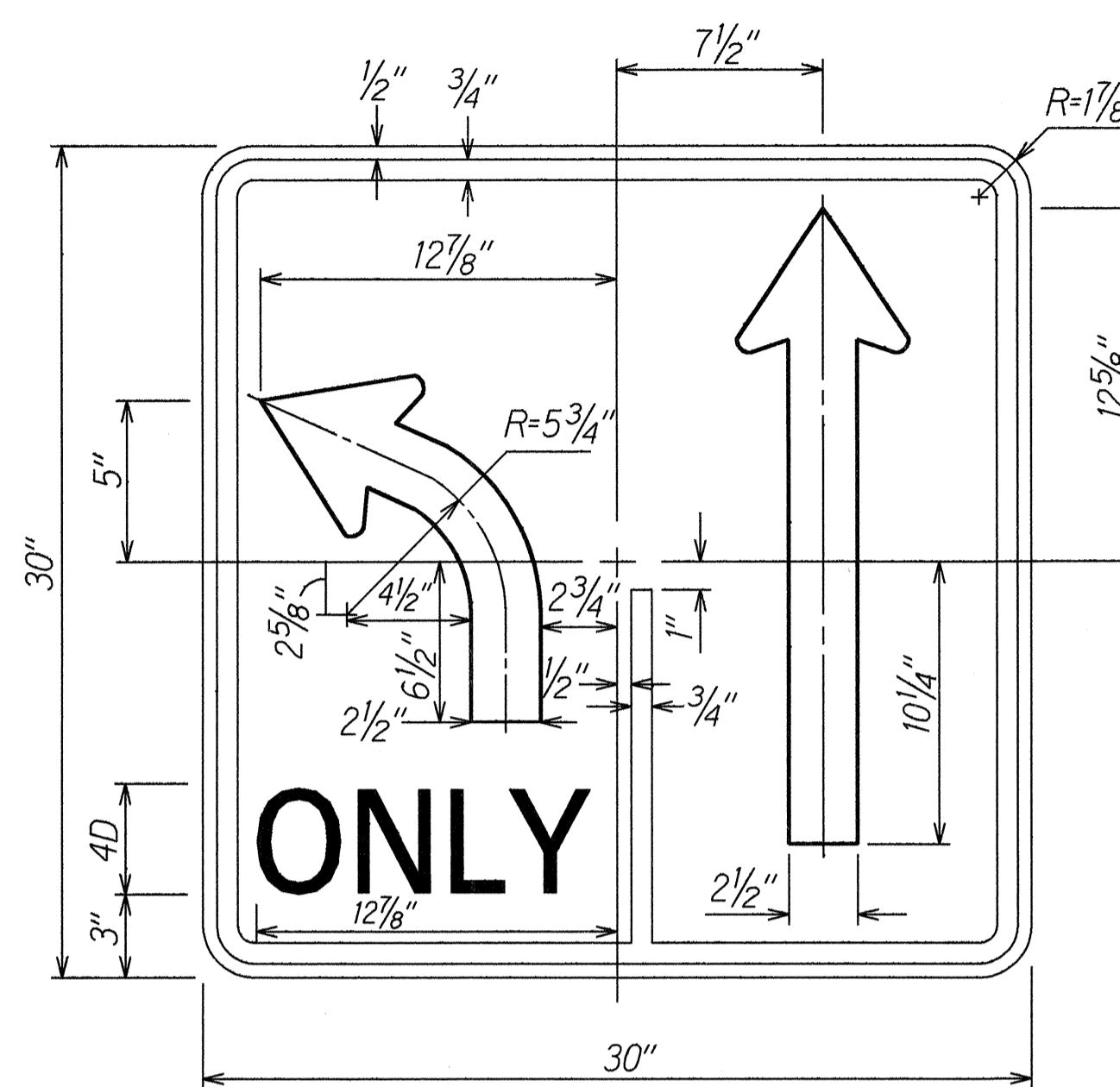
DESIGNED BY: _____ DATE: _____
 CHECKED BY: _____
 DRAWN BY: _____
 TRACED BY: _____
 NOTE BOOK: _____
 QUANTITIES BY: _____
 CHECKED BY: _____

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
PANEL LAYOUT
BARBERS POINT ACCESS
ROAD RESURFACING
Navy Gate to H-1 Makakilo Overpass
F.A. Project No. STP-0901(3)
 Scale: 3/4" = 1' - 0" Date: Jan. 1993
 SHEET No. T9 OF 15 SHEETS

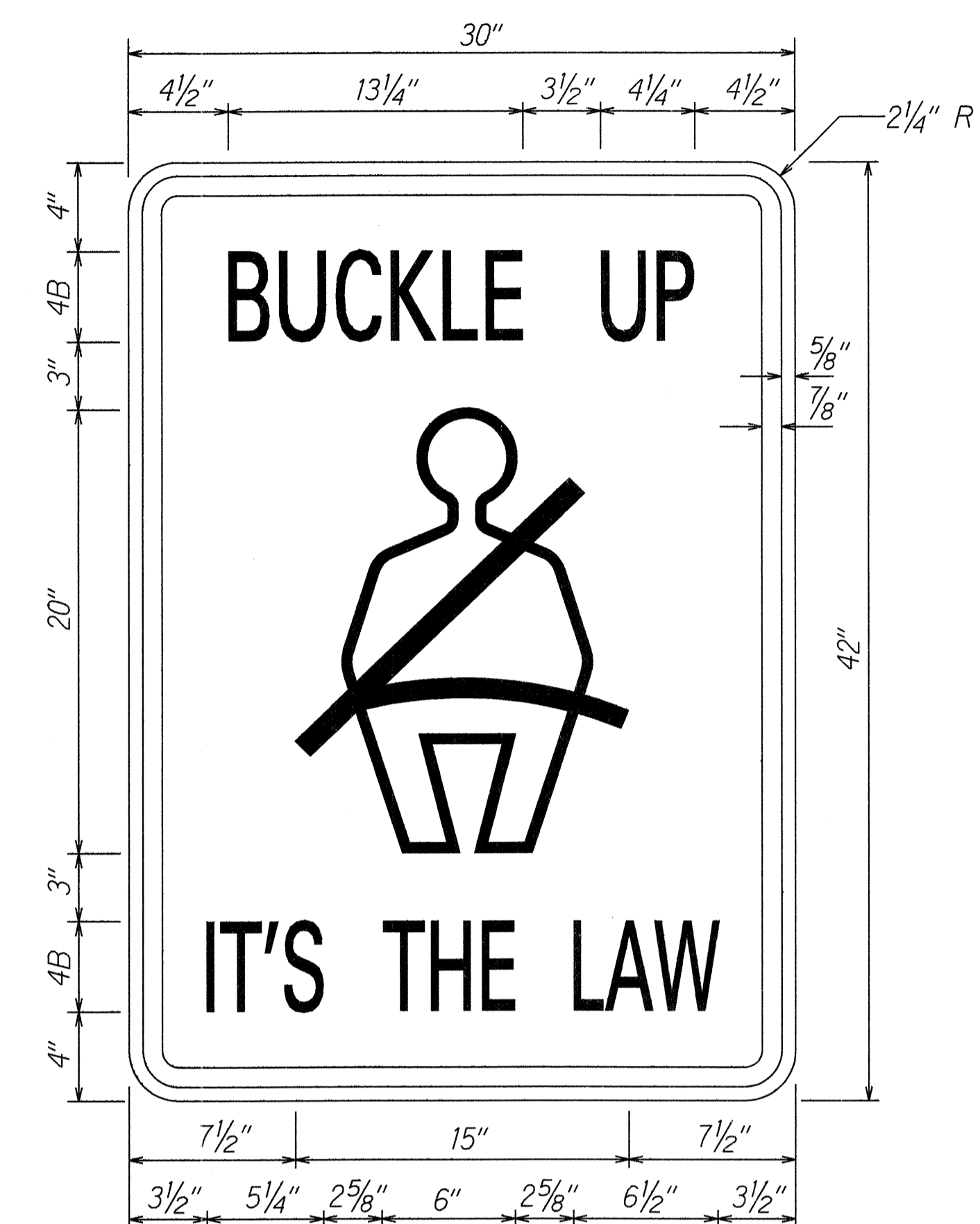
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	901A-01-93M	1993	25	30



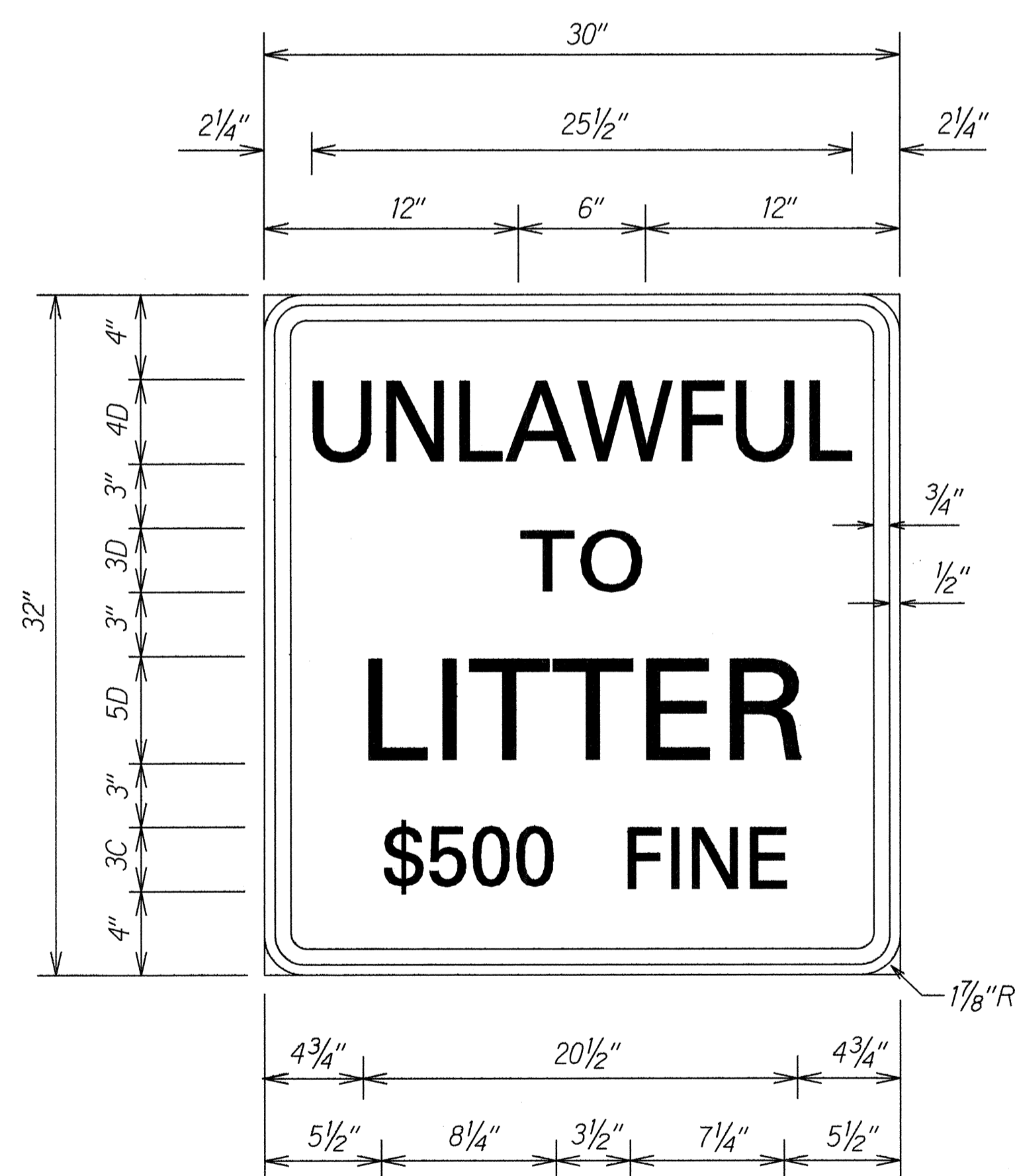
R3-38



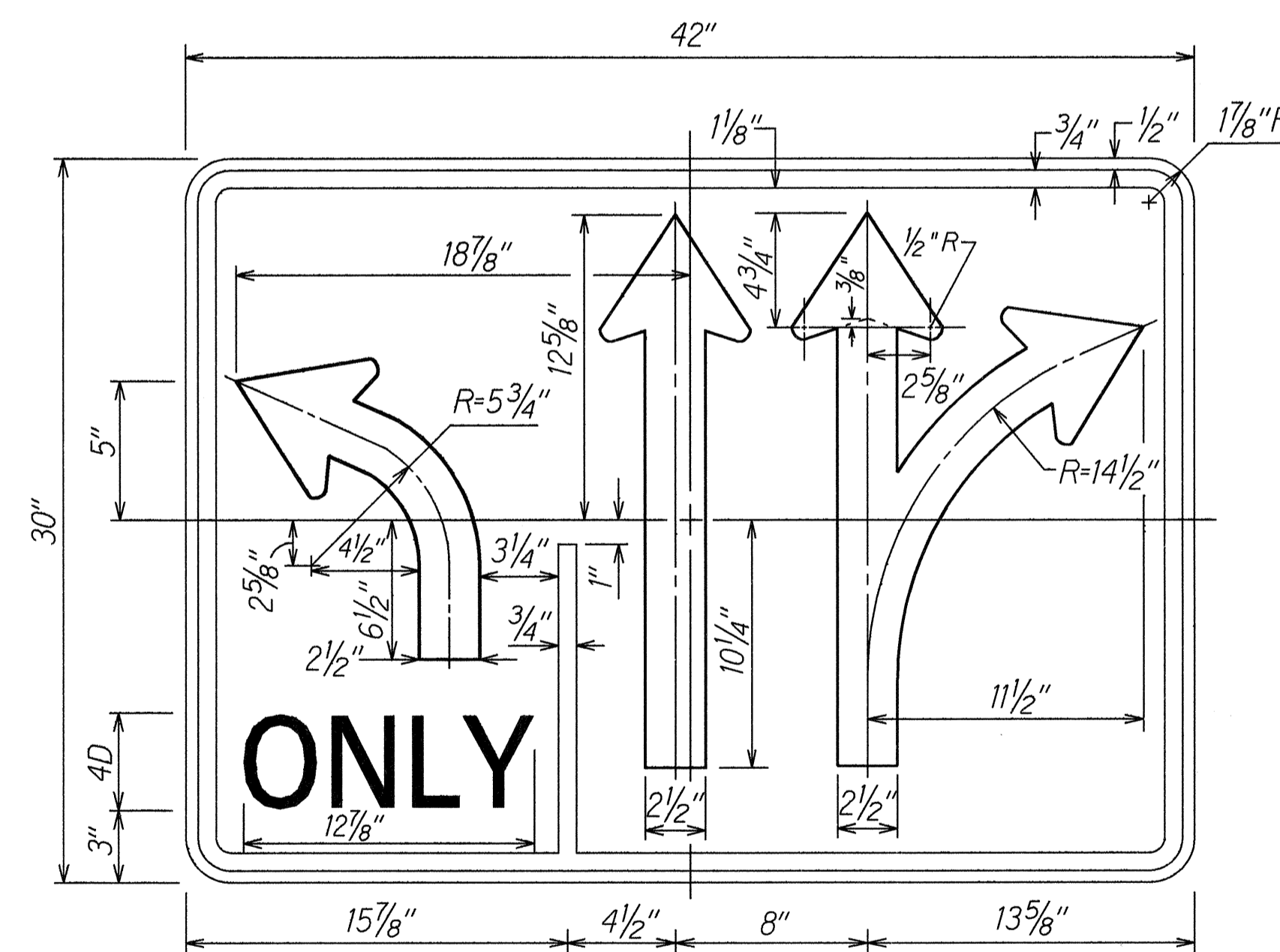
R3-40



R16-1



R15-1



R3-13(L)

NOTE:

1. Signs shall conform to plans and specifications for regulatory signs.
2. Signs R3-13(L), R3-38 and R3-40 are variations of sign R3-8. Words, border and arrow shall conform to sign R3-8 as shown in the DOT publication, "Standard Highway Signs."

DESIGNED BY	DATE
CHECKED BY	
NOTED BY	
APPROVED BY	
NO.	

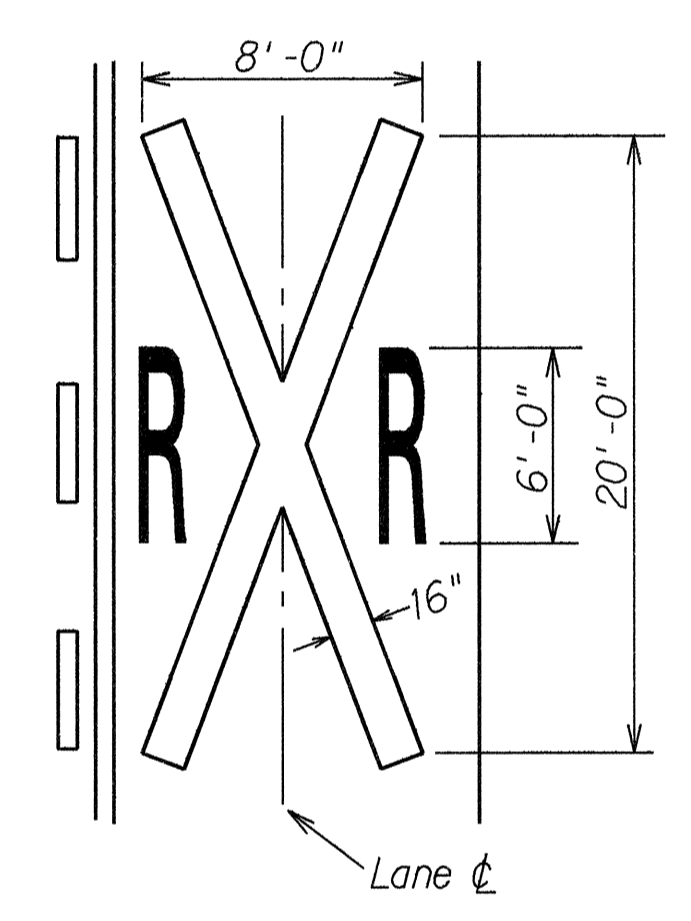
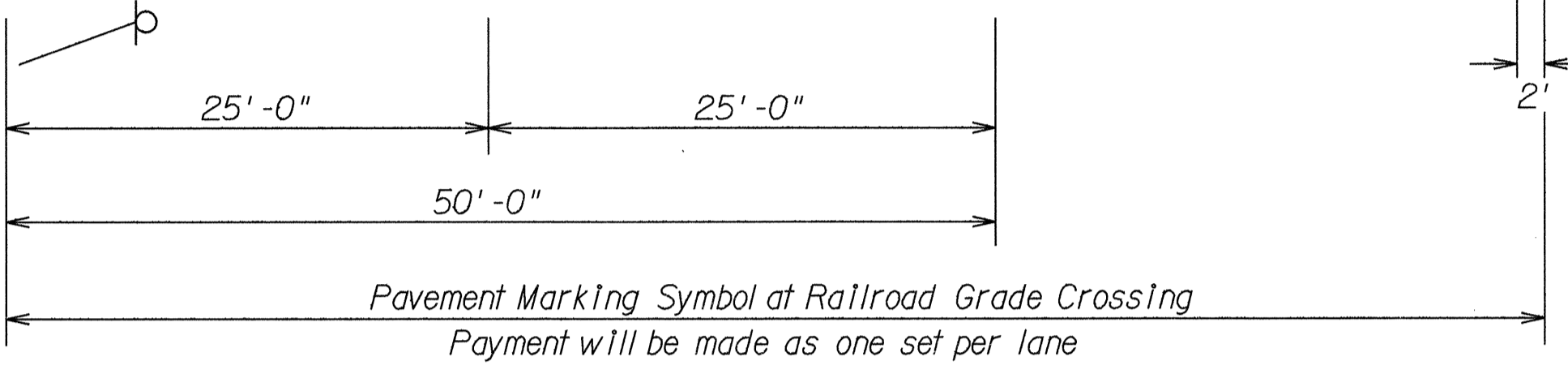
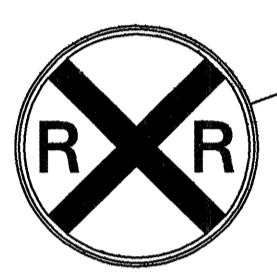
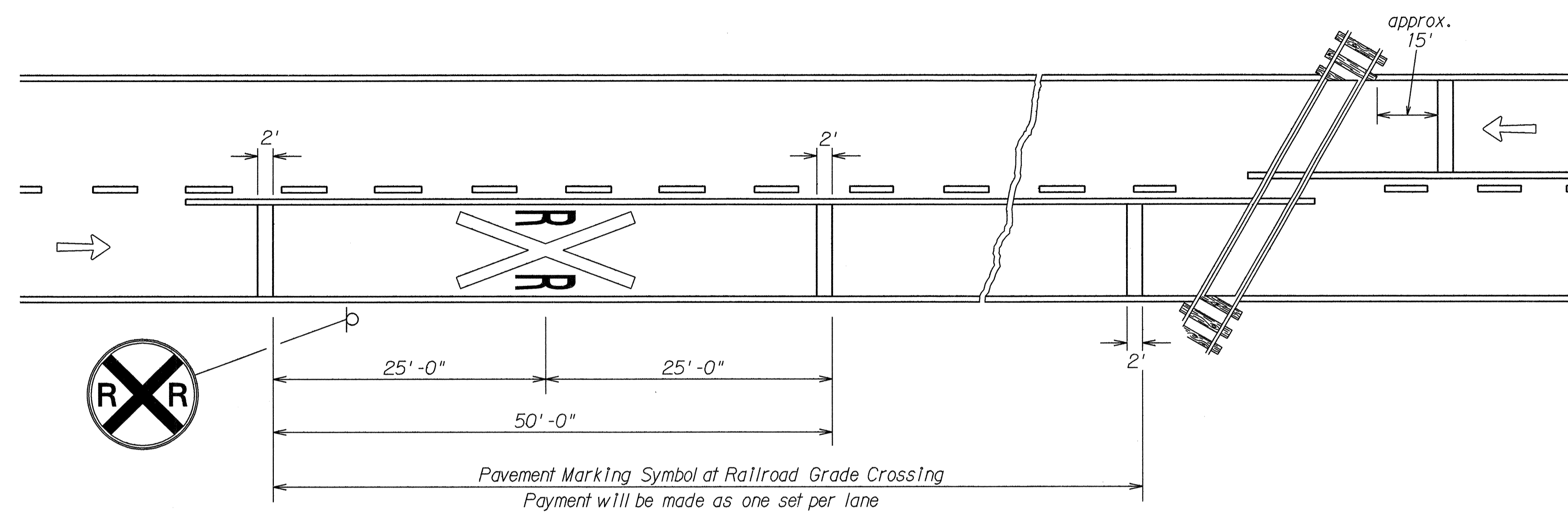
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS SIGN DETAILS

**BARBERS POINT ACCESS
ROAD RESURFACING
Navy Gate to H-1 Makaloa Overpass
F.A. Project No. STP-0901(3)**

Scale: 2" = 1'-0" Date: Jan. 1993
SHEET No. 110 OF 15 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0901(3)	1993	26	30



On multi-lane roads the transverse bands should extend across all approach lanes, and individual RXR symbols should be used in each approach lane.

Refer to Standard Alphabet for Highway Signs and Markings for RXR symbols details.

TYPICAL PLACEMENT OF WARNING SIGN AND PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSINGS

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
DATE	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RAILROAD-HIGHWAY CROSSING
TYPICAL DETAIL

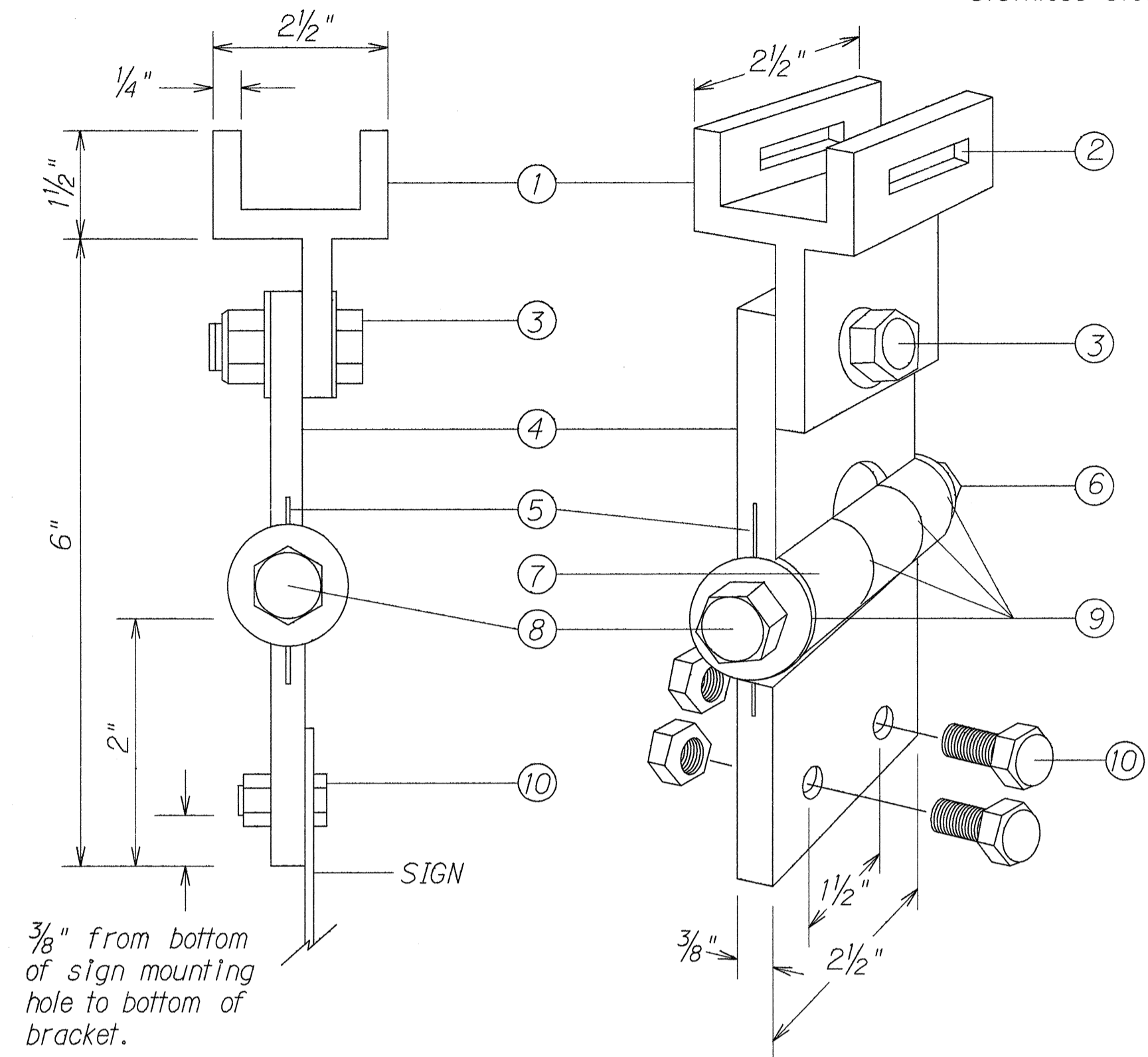
BARBERS POINT ACCESS
ROAD RESURFACING
Navy Gate to H-1 Makakilo Overpass
F.A. Project No. STP-0901(3)

Not to Scale Date: Jan. 1993

SHEET No. 111 OF 15 SHEETS

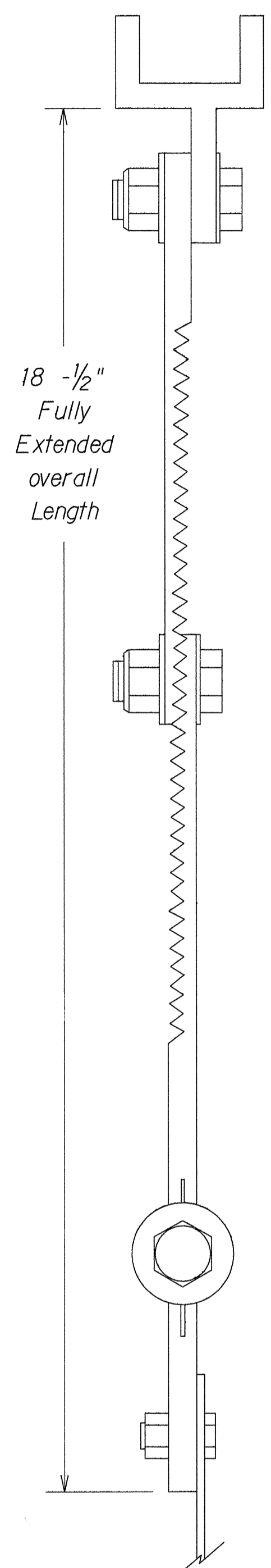
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0901(3)	1993	27	30

All Aluminum 6061T6 Alloy and Stainless Steel Components.

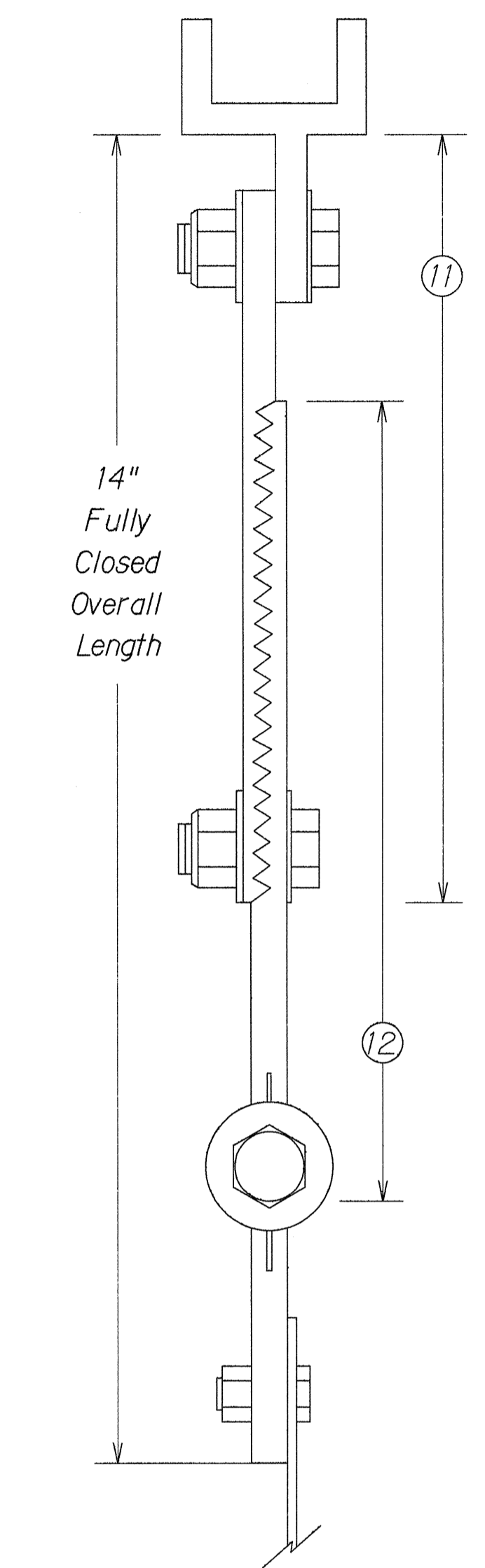


FIXED LENGTH NON-ADJUSTABLE SWING SIGN BRACKET

- ① Pivotal Upper Bracket
- ② 1 5/8" x 1/4" Slot for double strapping to electroliner mast arm. (M2G-34S(HD) .030" x 3/4" Heavy Duty Stainless Steel Strap with M2G-34B(HD) Buckle recommended.)
- ③ 1/2" - 13 x 1 1/2" Stainless Steel Hex Head Bolt with Stainless Steel Hex Lock Nut and 1/16" Stainless Steel Washer (both sides). Allows upper bracket to pivot and align with electroliner mast arm.
- ④ 6" Overall drop with Fixed Length Sign Bracket
- ⑤ Stainless Steel Dampener Spring (Removable)
- ⑥ Stainless Steel Hex Lock Nut with 1/16" Stainless Steel Washer
- ⑦ 1" O.D. Axle Housing
- ⑧ 1/2" - 13 x 4" Stainless Steel Hex Head Bolt with 1/16" Stainless Steel Washer
- ⑨ Oilite Bushing
- ⑩ Sign Mounting Sets, consisting of two each 5/16" - 18 x 1" Stainless Steel Hex Head Bolt with Stainless Steel Hex Lock Nut. Two holes on 1/2" centers provide positive lock sign mounting to bracket. Dimensions may vary slightly.



18 1/2" Fully Extended overall Length

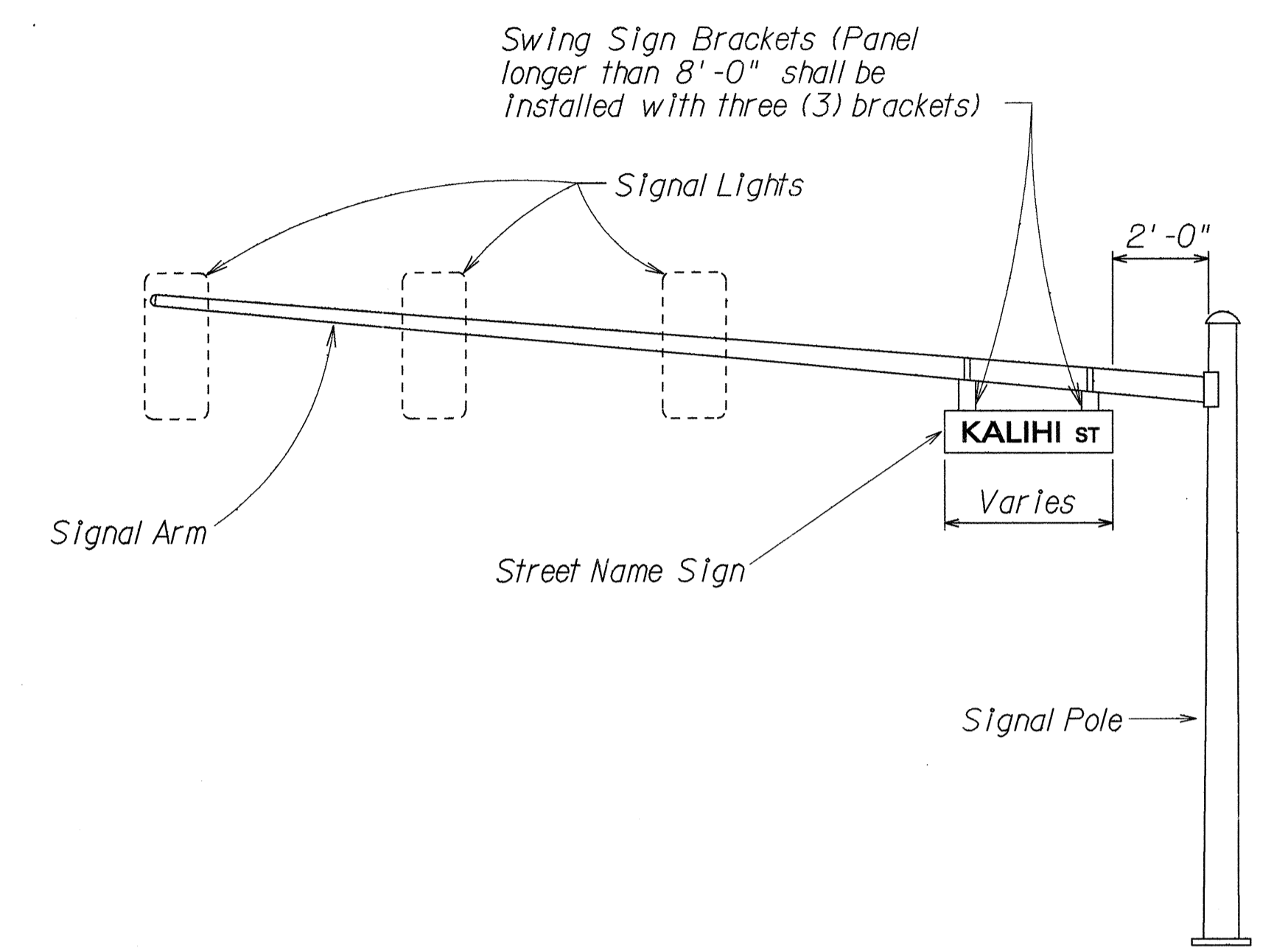


14" Fully Closed Overall Length

Allows Length Adjustment of 4 1/2"

ADJUSTABLE LENGTH SWING SIGN BRACKET

- ⑪ 8 1/4" overall length Upper Adjustable Sign Bracket section
- ⑫ 9" overall length Lower Adjustable Sign Bracket section, including Axle Housing (8" overall length to top of Axle Housing)
- ⑬ 1/2" - 13 x 1 1/2" Stainless Steel Hex Bolt with Stainless Steel Hex Lock Nut and 1/16" Stainless Steel Washers (both sides). Loosen lock nut, adjust bracket teeth to level sign.



STREET NAME SIGN MOUNTING ON MAST ARM

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGN MOUNTING DETAIL

**BARBERS POINT ACCESS
ROAD RESURFACING**

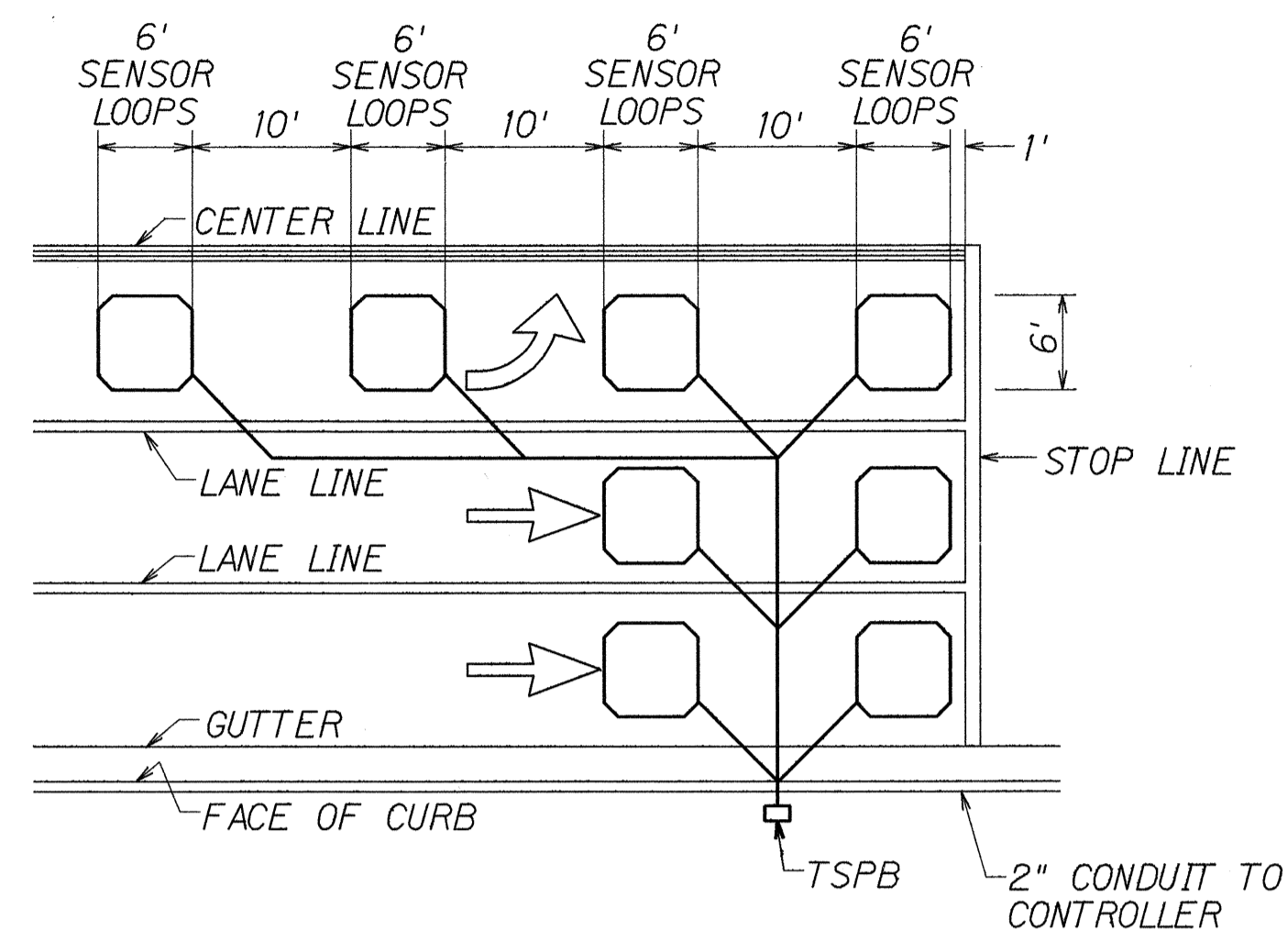
Navy Gate to H-1 Makakilo Overpass

F.A. Project No. STP-0901(3)

Not to Scale Date: Jan. 1993

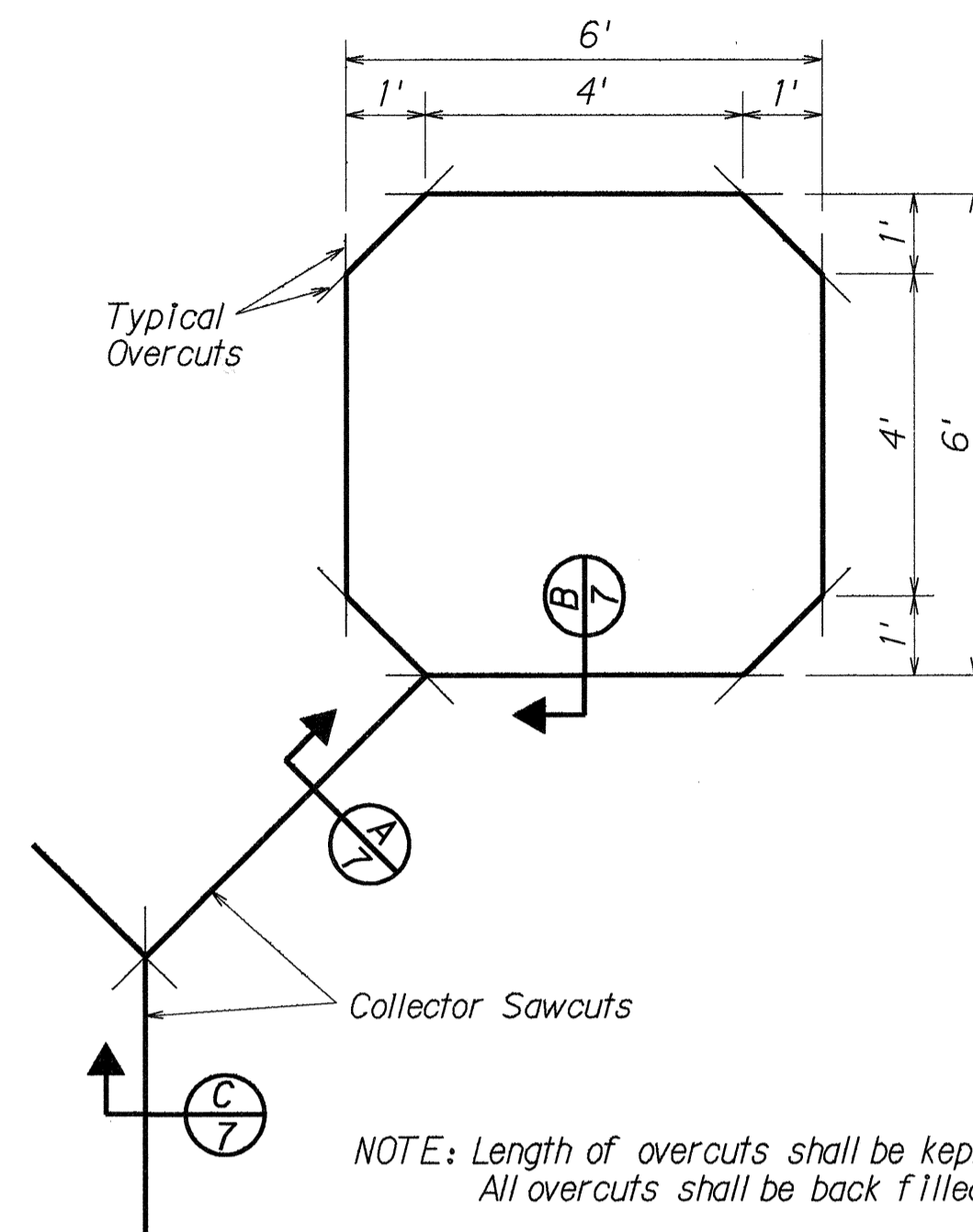
SHEET No. 112 OF 15 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0901(3)	1993	28	30

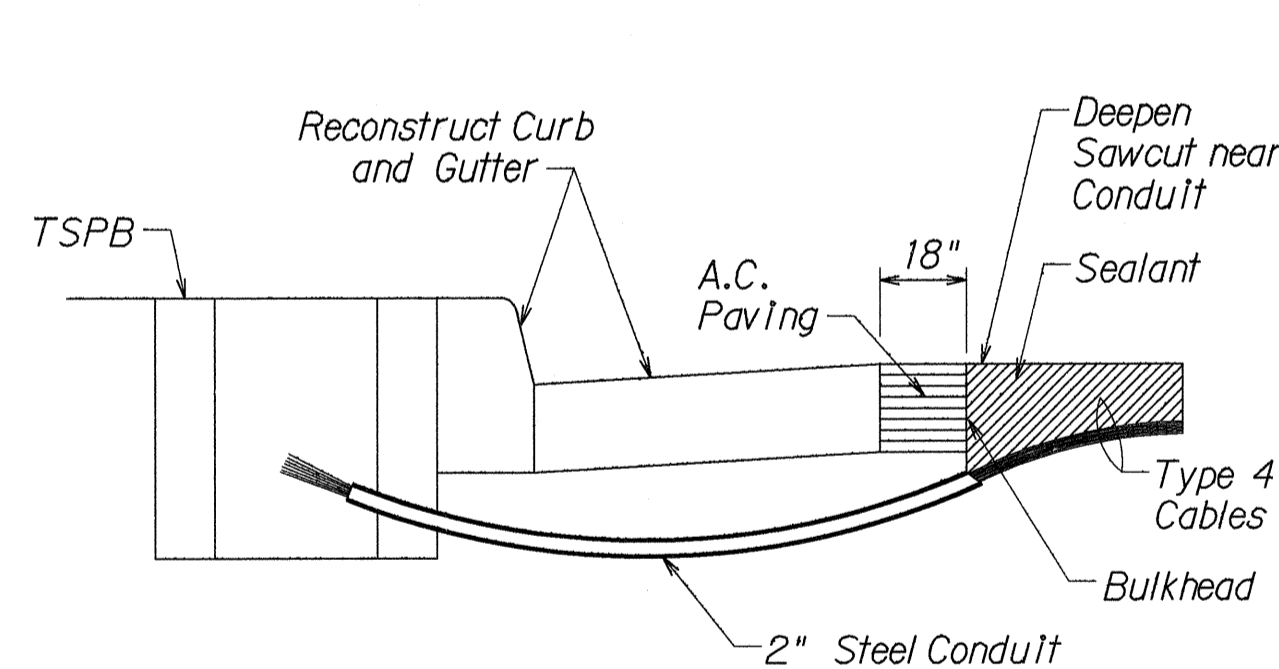
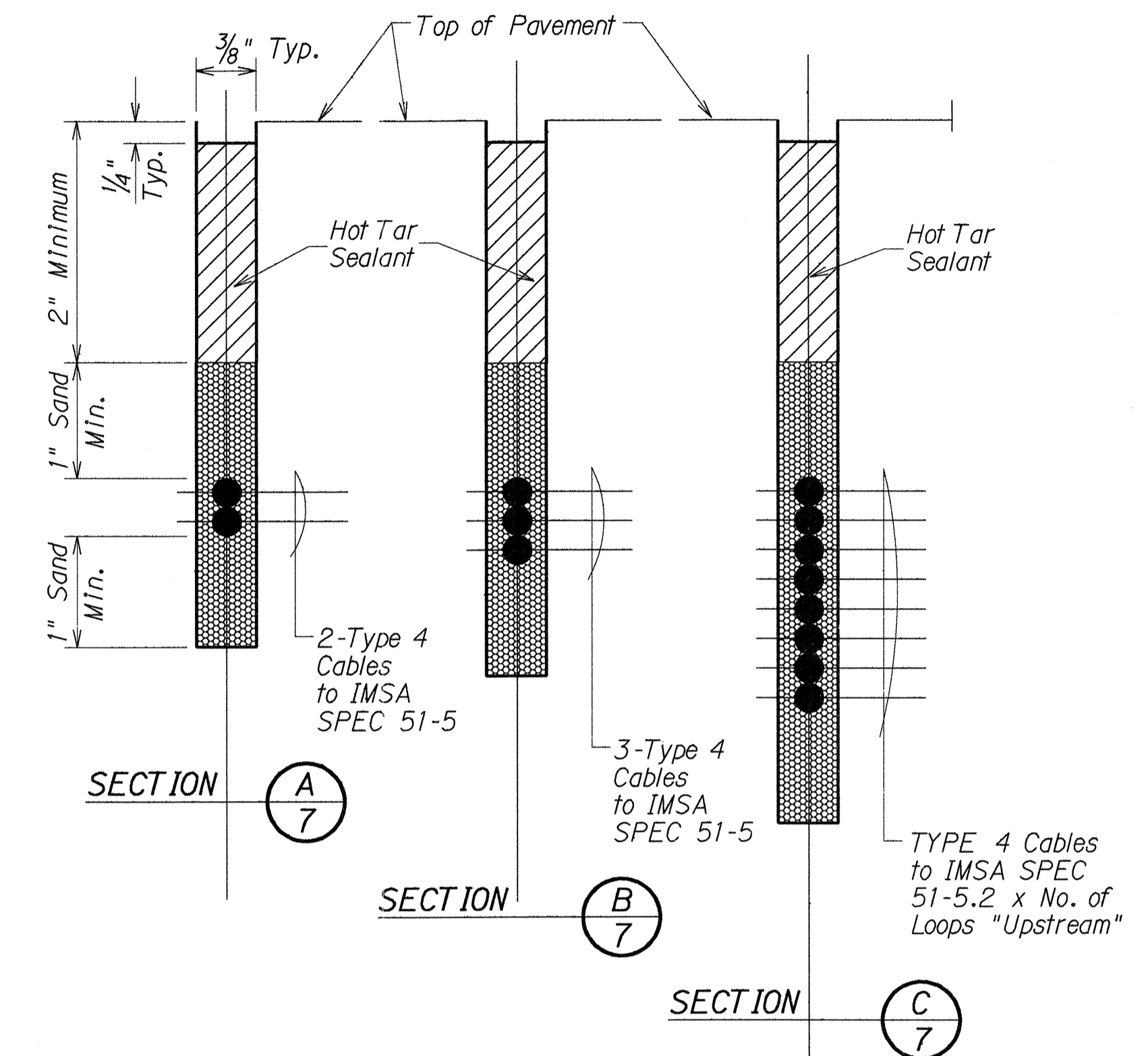


- NOTES:
- Center sensor loops in lanes.
 - Collector cables shall be twisted 2 turns per foot.
 - Number of loops and locations vary. See project plans.
 - Number and locations of collector sawcuts may be varied in the field to suit.

TYPICAL SENSOR LOOP LAYOUT



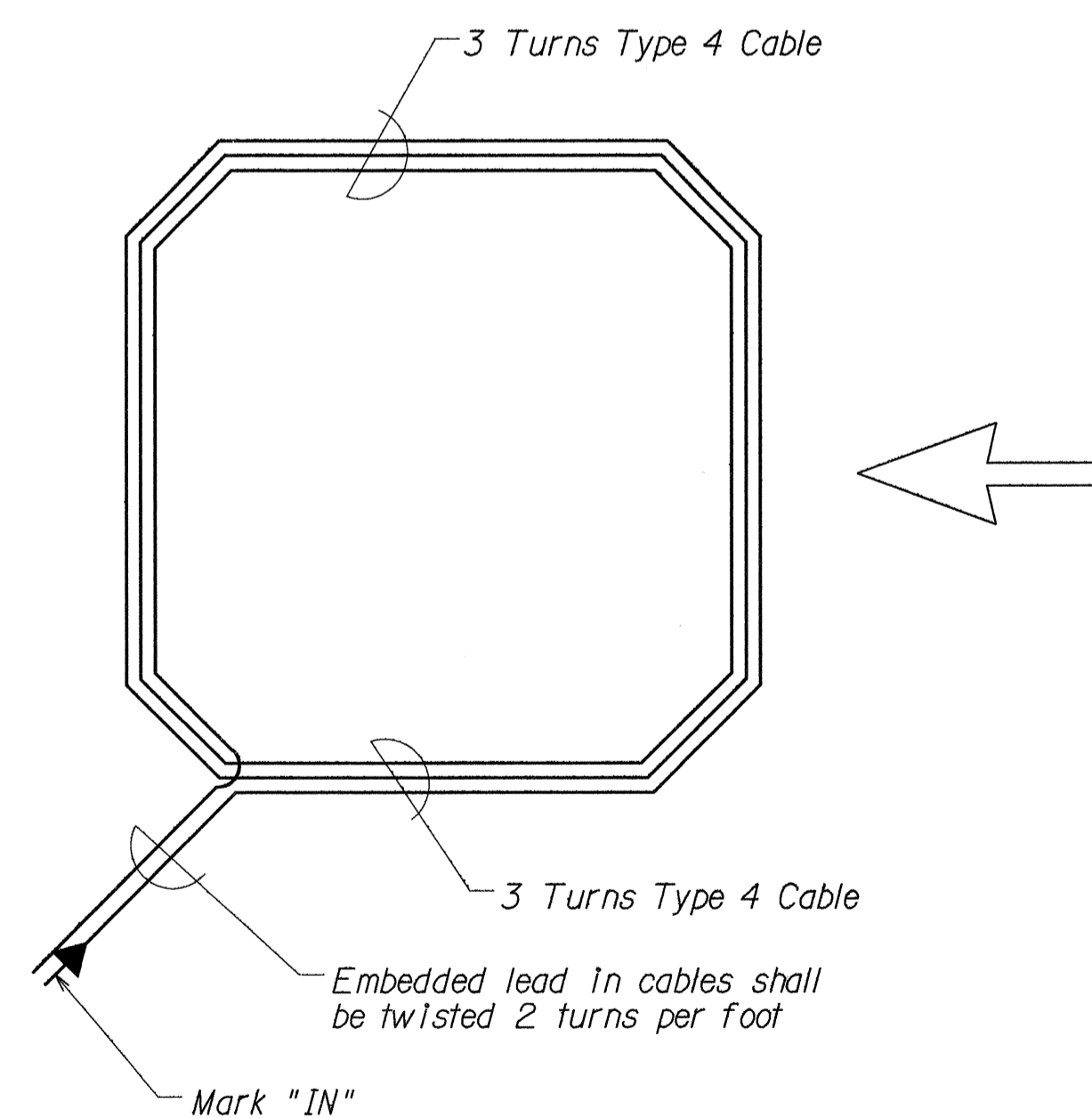
TYPICAL SENSOR LOOP SAWCUT DETAIL



NOTES ON CONSTRUCTION AT END OF SAWCUT

- Seal roadway end of conduit after installation of conductors.
- Install bulkhead across conduit trench.
- Place hot tar in sawcut.
- Backfill over conduit with new A.C.
- Reconstruct curb and gutter as required.

DETAIL OF SENSOR LOOP INSTALLATION AT EDGE OF ROADWAY



TYPICAL SENSOR LOOP WIRING DIAGRAM

TYPES OF CABLES

- TYPE 1 Signal Loop Cable: Stranded No. 14, 26 conductors
- TYPE 2 Detector Lead-In Cable and Pedestrian Push Button Circuit Cable: Stranded, No. 14, 2 Conductors
- TYPE 3 Interconnect Cable: Solid No. 20, 12 Pairs
- TYPE 4 Loop Sensor Cable: Solid No. 12, Single Conductor to IMSA SPEC 51-5
- TYPE 5 Cable from Signal Loop to Signal Head: Stranded, No. 14, Single Conductor
- TYPE 6 Service Cable: Solid, No. 6, 3 Conductors

DESIGNED BY	DATE
DRAWN BY	
TRACED BY	
NOTE BOOK	
CHECKED BY	
NO.	


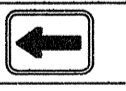
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LOOP DETECTOR DETAILS
BARBERS POINT ACCESS
ROAD RESURFACING
Navy Gate to H-1 Makali'i Overpass
F.A. Project No. STP-0901(3)

Not to Scale Date: Jan. 1993
SHEET No. 113 OF 15 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-090(3)	1993	29	30

TRAFFIC SIGN SUMMARY

SIGN NO.	MESSAGE	QUANTITY			
		10 SQ. FT. OR LESS		GREATER THAN 10 SQ. FT.	
		W/POST	W/O POST	W/POST	W/O POST
R1-1-A	STOP	1	1		
R1-2	YIELD	2			
R2-1(25)-B	SPEED LIMIT 25			2	
R2-1(40)-B	SPEED LIMIT 40			3	
R2-1(45)-B	SPEED LIMIT 45			1	
R2-5b(25)-B	REDUCED SPEED 25			1	
R3-1-B	NO RIGHT TURN SYMBOL		1		
R3-13(L)		2			
R3-40		1			
R3-50				2	
R4-7		1			
R5-1-B	DO NOT ENTER		2		
R6-1(L)	ONE WAY		1		
R7-107a	The Bus SYMBOL		2		
R7-201a	TOW AWAY ZONE SYMBOL	11	4		
R8-3a-B	NO PARKING SYMBOL		15		
R15-1	UNLAWFUL TO LITTER \$500 FINE		1		
R16-1	BUCKLE UP SYMBOL	4			
R16-2	TURN RIGHT ANY TIME WITH CAUTION	1			
R16-5	UNLICENSED VEHICLES BICYCLES, CYCLES UNDER 5 HP, PEDESTRIANS KEEP OUT FREEWAY			2	
W2-2-B		1			
W3-1-A	STOP AHEAD SYMBOL	1			
W3-3	SIGNAL AHEAD SYMBOL	2			
W4-2(R)		1			
W6-1	DIVIDED HIGHWAY SYMBOL	1			
D11-1	BIKE ROUTE SYMBOL	1			
M4-13	TO		1		
M7-1			1		
TOTAL		30	29	11	

PAVEMENT MARKING SUMMARY

DESCRIPTION	QUANTITY
PAVEMENT MARKERS	
TYPE A _____	260 EACH
TYPE C _____	700 EACH
TYPE D _____	220 EACH
TYPE H _____	280 EACH
TAPE - TYPE I OR THERMOPLASTIC EXTRUSION	
8-INCH PAVEMENT STRIPE (WHITE) _____	800 LIN. FT.
DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW) _____	4,350 LIN. FT.
TAPE - TYPE II OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE) _____	16,000 LIN. FT.
4-INCH PAVEMENT STRIPE (YELLOW) _____	3,100 LIN. FT.
8-INCH PAVEMENT STRIPE (WHITE) _____	2,000 LIN. FT.
12-INCH PAVEMENT STRIPE (WHITE) _____	420 LIN. FT.
12-INCH PAVEMENT STRIPE (YELLOW) _____	800 LIN. FT.
DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW) _____	4,300 LIN. FT.
TAPE - TYPE III OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE) _____	3,900 LIN. FT.
4-INCH PAVEMENT STRIPE (YELLOW) _____	450 LIN. FT.
12-INCH PAVEMENT STRIPE (WHITE) _____	300 LIN. FT.
CROSSWALK MARKINGS _____	29 LANE
PAVEMENT ARROW _____	56 EACH
PAVEMENT WORD _____	26 EACH
RAILROAD CROSSING SYMBOL _____	2 EACH

DATE: _____
 CHECKED BY: _____
 DESIGNED BY: _____
 DRAWN BY: _____
 PLANNED BY: _____
 ORIGINAL PLAN: _____
 NOTE BOOK: _____
 NO. _____

5/5/93 Revised Pavement Marking Summary to Include Tape, Type III.

DATE REVISION

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
**MISCELLANEOUS TRAFFIC
 SUMMARIES**
 BARBERS POINT ACCESS
 ROAD RESURFACING
 Navy Gate to H-1 Makakilo Overpass
 F.A. Project No. STP-090(3)

Date: Jan. 1993

SHEET No. 114 OF 15 SHEETS

ADD. 29

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-090(3)	1993	30	30

REFLECTOR MARKER SUMMARY						
TYPE	QUANTITY					
	W/O POST		W/FLEXIBLE POST		W/STEEL POST	
	YELLOW	WHITE	YELLOW	WHITE	YELLOW	WHITE
RM-9	1				2	

MILEPOST SUMMARY					
NAME	SIZE	MESSAGE	W/POST	W/O POST	
D10-1a	10"x27"	MILE 1 38	2		
D10-7	10"x7"	901			2
TOTAL			2		2

DESTINATION SIGN SUMMARY						
SIGN NO.	LOCATION	MESSAGE	SIZE	OVERLAY AREA (SQ. FT.)	NEW PANEL AREA (SQ. FT.)	
					W/O POST	W/POST
D-1	⊕ STA. 61+25±	↑ MAKAKILO HONOLULU ← WAIANAE WAIPAHU →	6'-6"x5'-6"			35.75
D-2	⊕ STA. 61+25±	BARBERS PT NAS 1 MILE	6'-6"x5'-6"		35.75	
D-3	FARRINGTON HWY. STA. 40+00±	↑ WAIANAE ← BARBERS PT NAS MAKAKILO HONOLULU →	10'-0"x5'-6"			55.00
D-4	FARRINGTON HWY. STA. 32+60± RT	← MAKAKILO HONOLULU BARBERS PT NAS →	10'-0"x4'-0"			40.00
TOTAL					35.75	130.75

CONSTRUCTION SIGN SUMMARY					
SIGN NO.	LOCATION	MESSAGE	W/POSTS	W/O POST	
CW20-1d	⊕ STA. 0+50± RT	ROAD CONSTRUCTION AHEAD	1		
CW20-1d	EWA PARKWAY	ROAD CONSTRUCTION AHEAD	1		
CW20-1d	KAMAHAHA AVENUE	ROAD CONSTRUCTION AHEAD	1		
CW20-1d	FARRINGTON HWY. I.B. STA. 48+50± RT	ROAD CONSTRUCTION AHEAD	1		
CG20-2	FARRINGTON HWY. I.B. STA. 48+50± LT	END CONSTRUCTION	1		
CG20-2	MAKAKILO DR. STA. 19+00± RT	END CONSTRUCTION	1		
CW20-1d	MAKAKILO DR. STA. 19+00± LT	ROAD CONSTRUCTION AHEAD	1		
CW20-1d	RAMP MC	ROAD CONSTRUCTION AHEAD	1		
TOTAL			8		

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
DATE	
DESIGNED BY	
DRAWN BY	
CHECKED BY	
DATE	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**MISCELLANEOUS TRAFFIC
SUMMARIES**

BARBERS POINT ACCESS
ROAD RESURFACING
Navy Gate to H-1 Makakilo Overpass
F.A. Project No. STP-090(3)

Date: Jan. 1993

SHEET No. 15 OF 15 SHEETS