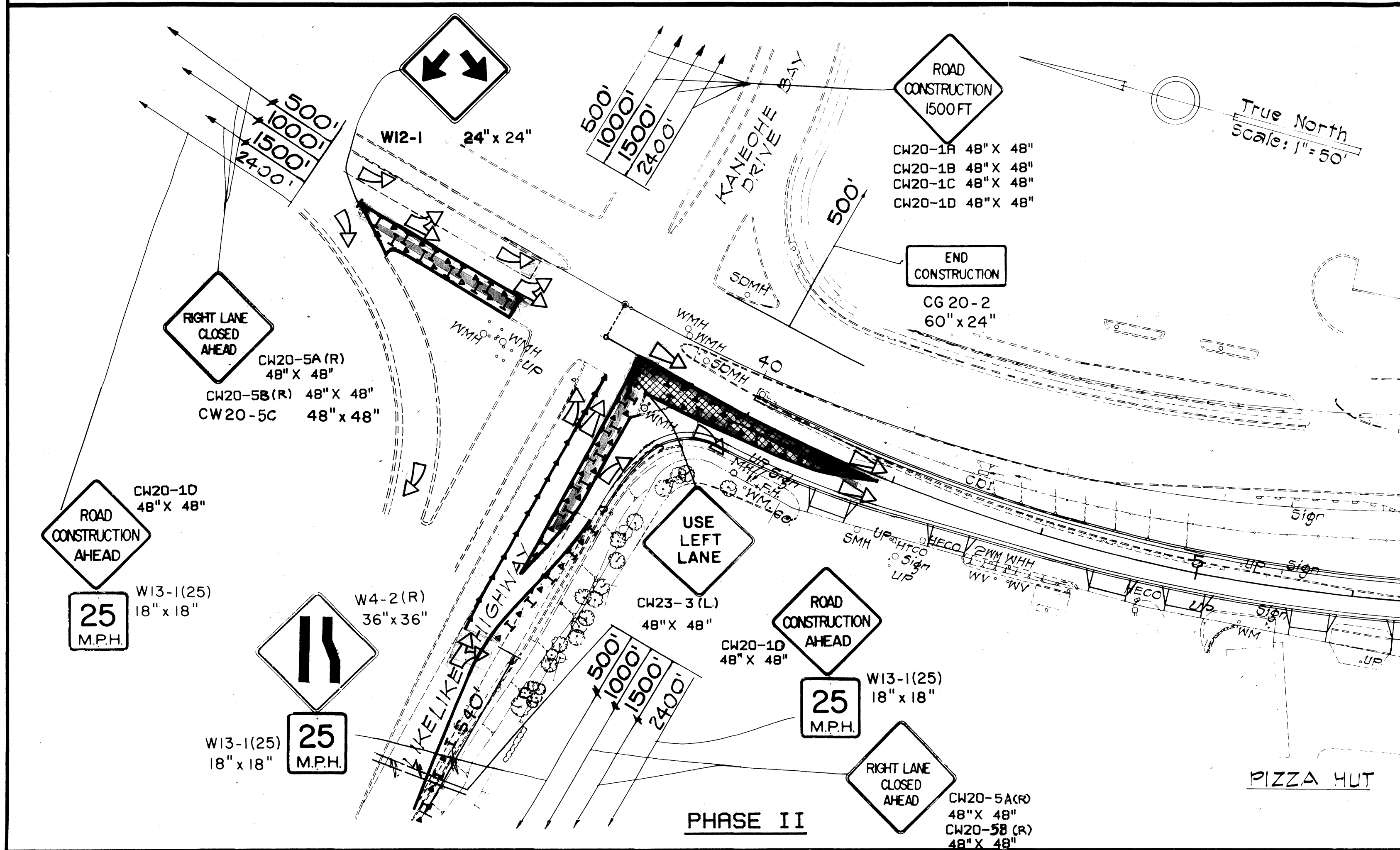
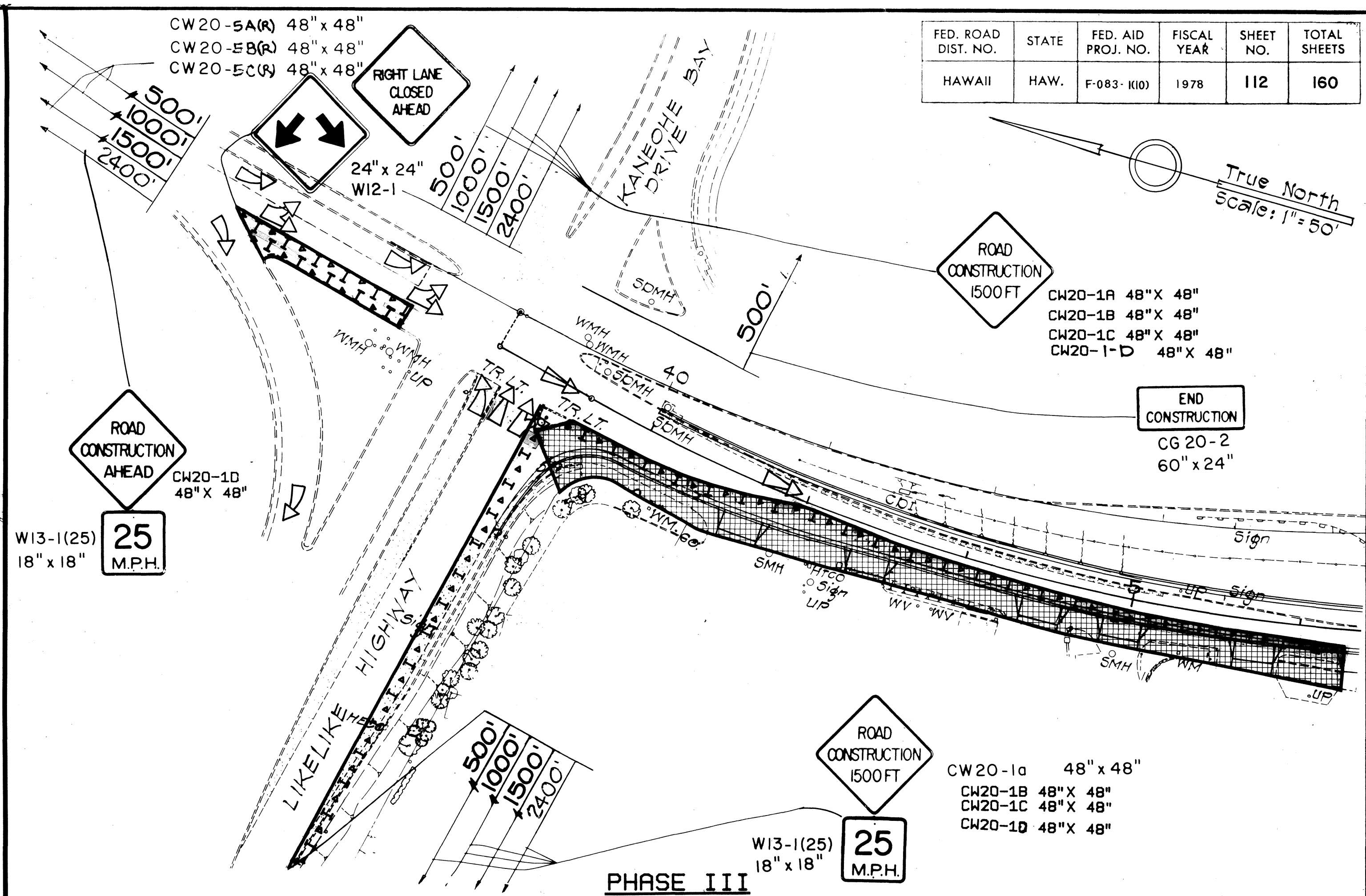
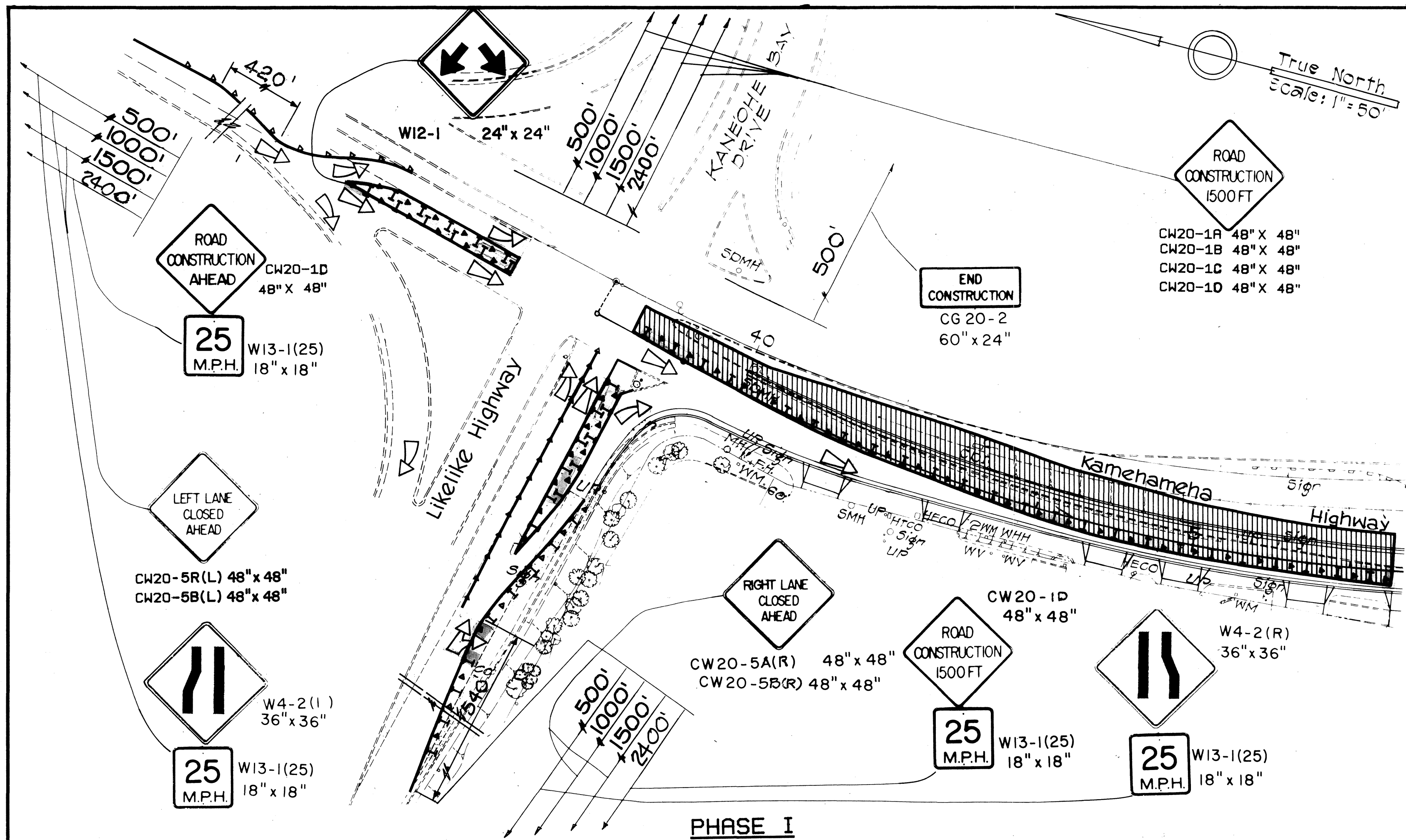


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(10)	1978	112	160



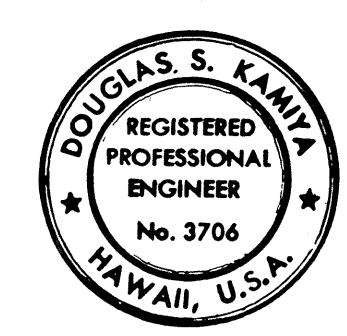
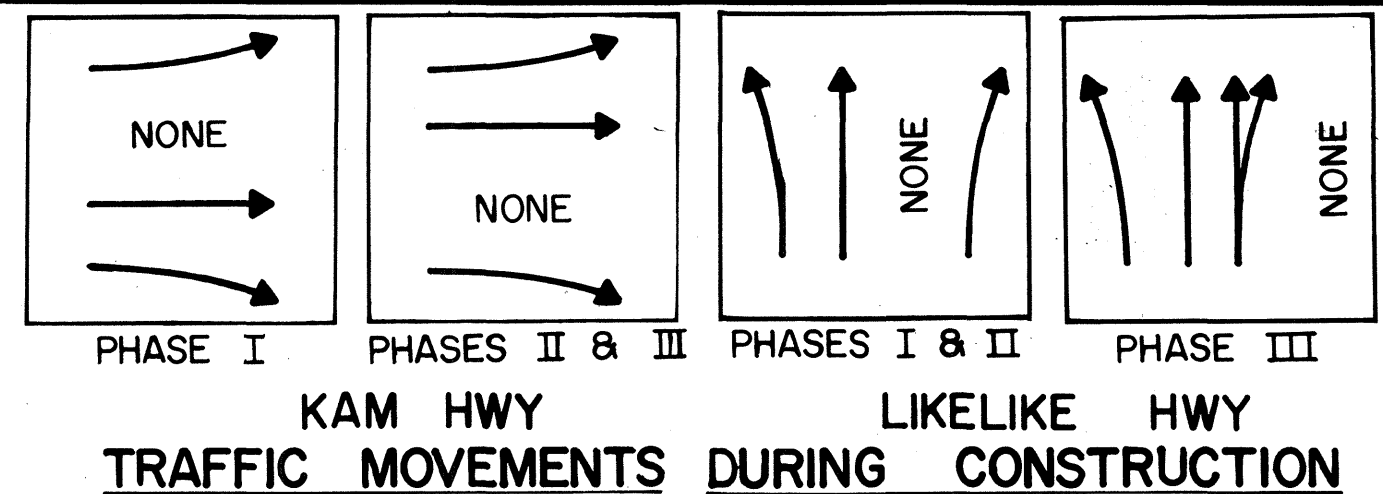
CONSTRUCTION NOTES

1. CONSTRUCTION SHALL BE DONE SEQUENTIALLY BY PHASES AS SHOWN ON THE PLANS. PHASING SEQUENCE MAY BE CHANGED BY THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE ENGINEER.
2. BARRICADES SHALL CONFORM TO PART VI OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, 1971, AND ANY AMENDMENTS OR REVISIONS THERE OF.
3. TRAFFIC MOVEMENT DIAGRAMS SHOW LANE MOVEMENTS DURING THE FIRST THREE PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL SIGNS AND BARRICADES TO ACHIEVE THE PROPOSED MOVEMENTS.
4. PHASES I, II, AND III PHASING PLANS ON LIKELIKE HWY, KANEOHE BAY DRIVE AND KAMEHAMEHA HWY (KANEOHE TOWN DIRECTION) SHALL BE SET UP DURING WORKING HRS ONLY AND REMOVED DURING NON WORKING HOURS TO ALLOW MAXIMUM UTILIZATION OF THE INTERSECTION.
5. PEDESTRIANS MUST BE PROVIDED WALKWAYS AT ALL TIMES.

LEGEND

- PHASE I
- PHASE II
- PHASE III
- PHASE IV
- PHASE V
- TYPE II BARRICADE WITH BLINKERS
- CONES

0 50 100
SCALE IN FEET



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Douglas S. Kanika

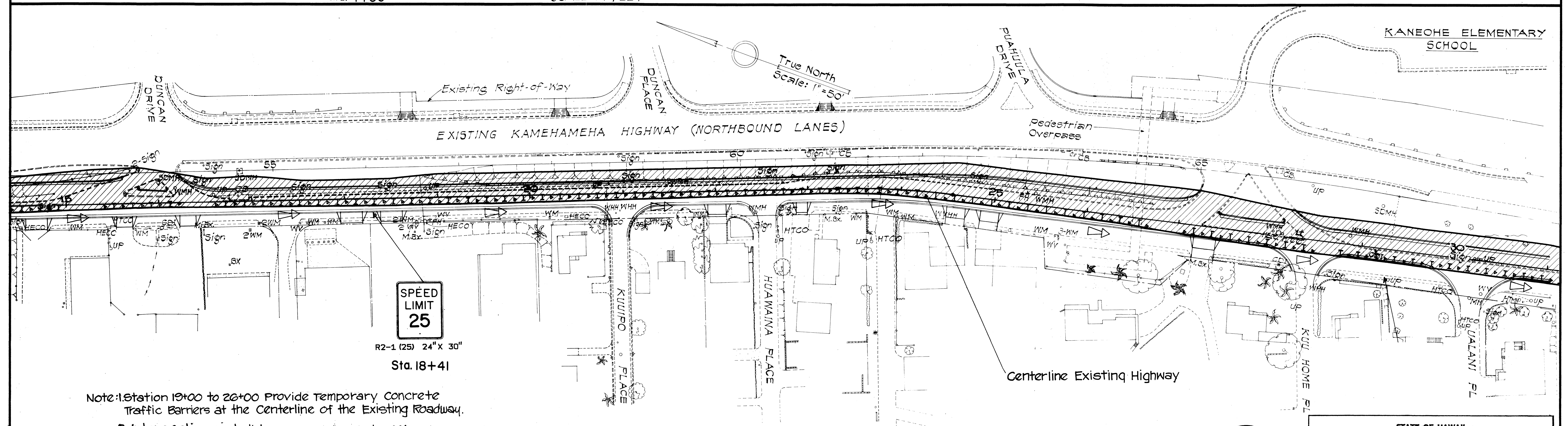
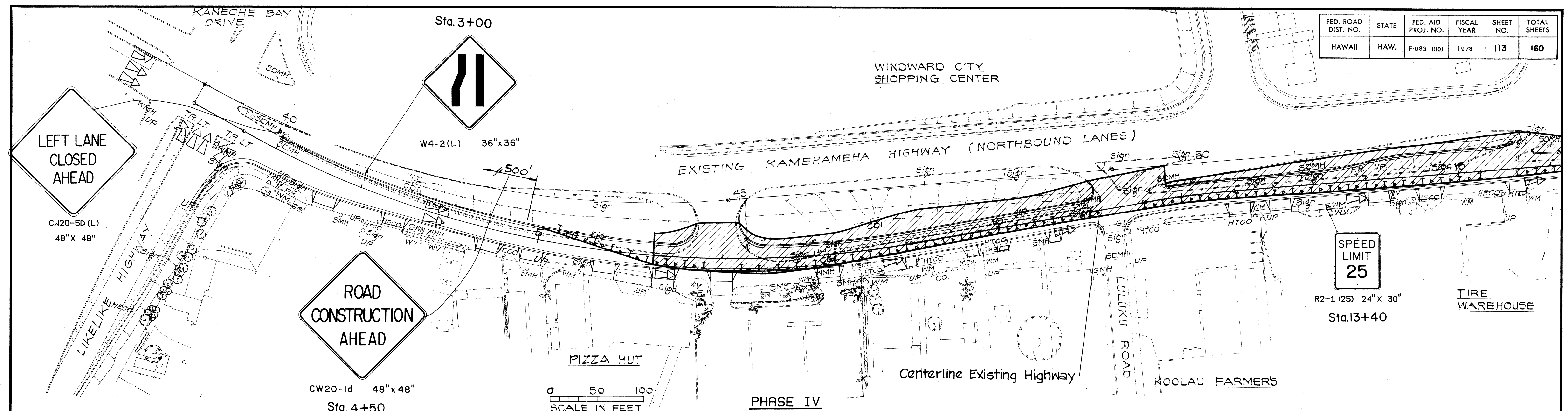
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

CONSTRUCTION PHASING

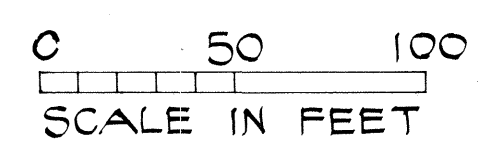
KAMEHAMEHA HIGHWAY IMPROVEMENT
(LIKELIKE HIGHWAY TO KOOLAU VIEW DRIVE)
PROJECT NO. F - 083 - 1(10)

SCALE: As Shown DATE AUG - 1978
SHEET No. 1 OF 25 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(10)	1978	113	160



Note: 1. Station 19+00 to 20+00 Provide Temporary Concrete Traffic Barriers at the Centerline of the Existing Roadway.
 2. Intersections shall be opened to all traffic at all times.



PHASE IV



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STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 LAND TRANSPORTATION FACILITIES DIVISION

CONSTRUCTION PHASING

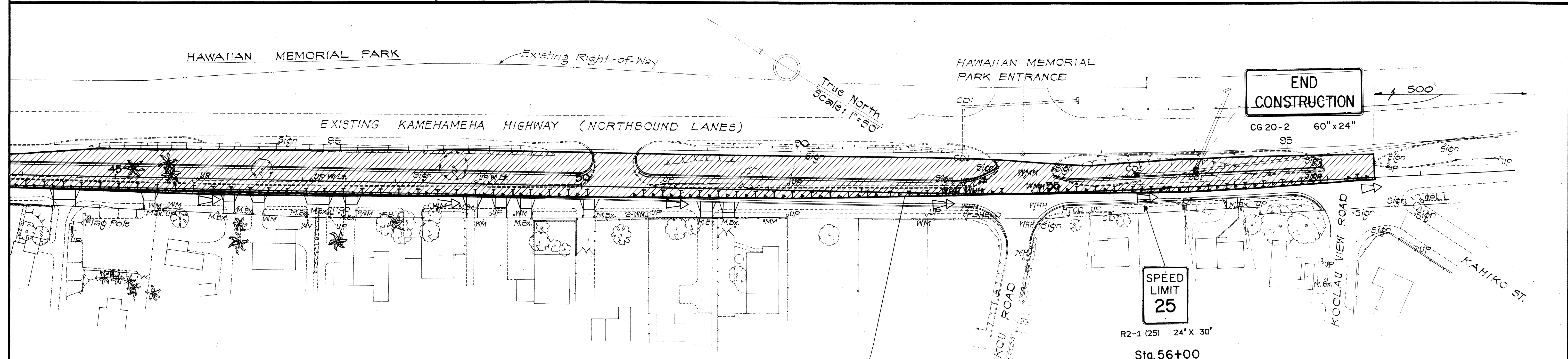
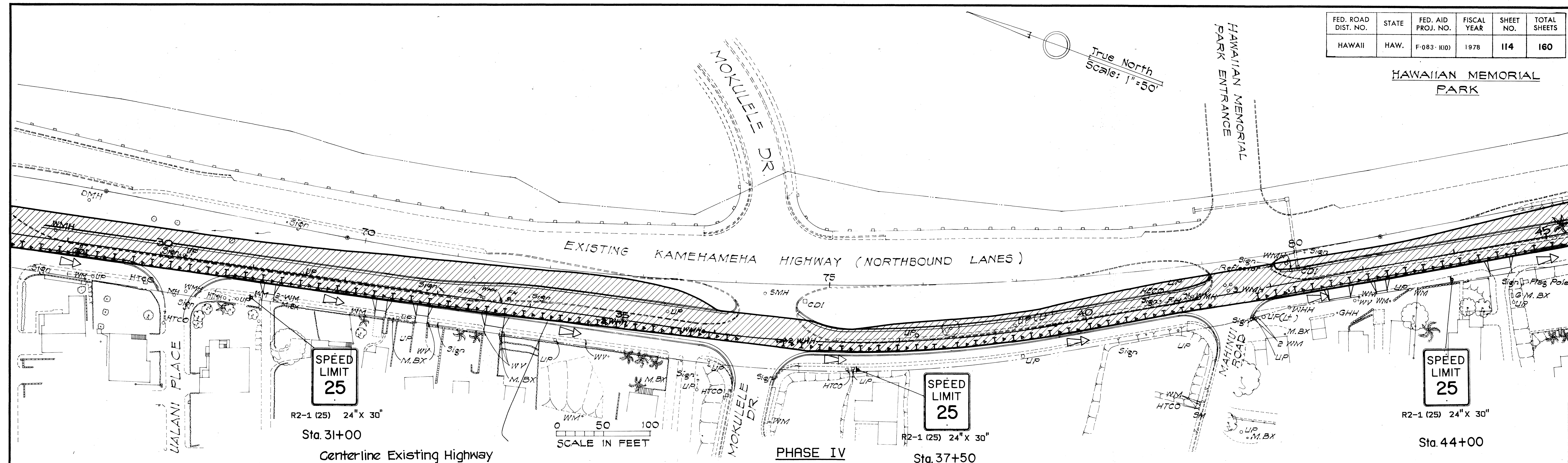
KAMEHAMEHA HIGHWAY IMPROVEMENT
 (LIKELIKE HIGHWAY TO KOOLAU VIEW DRIVE)
 PROJECT NO. F-083-1(10)

SCALE: As Shown DATE AUG 1978
 SHEET No. 2 OF 25 SHEETS

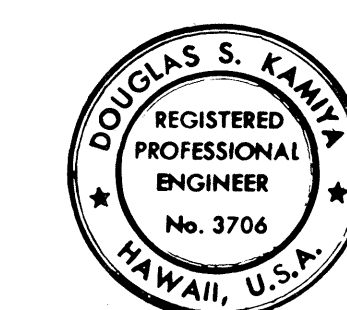
DATE	.....
SURVEY PLOTTED BY	.....
DRAWN BY	.....
TRACED BY	.....
CHECKED BY	.....
NOTE BOOK	.....
No.	.....

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(10)	1978	114	160

HAWAIIAN MEMORIAL PARK



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



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

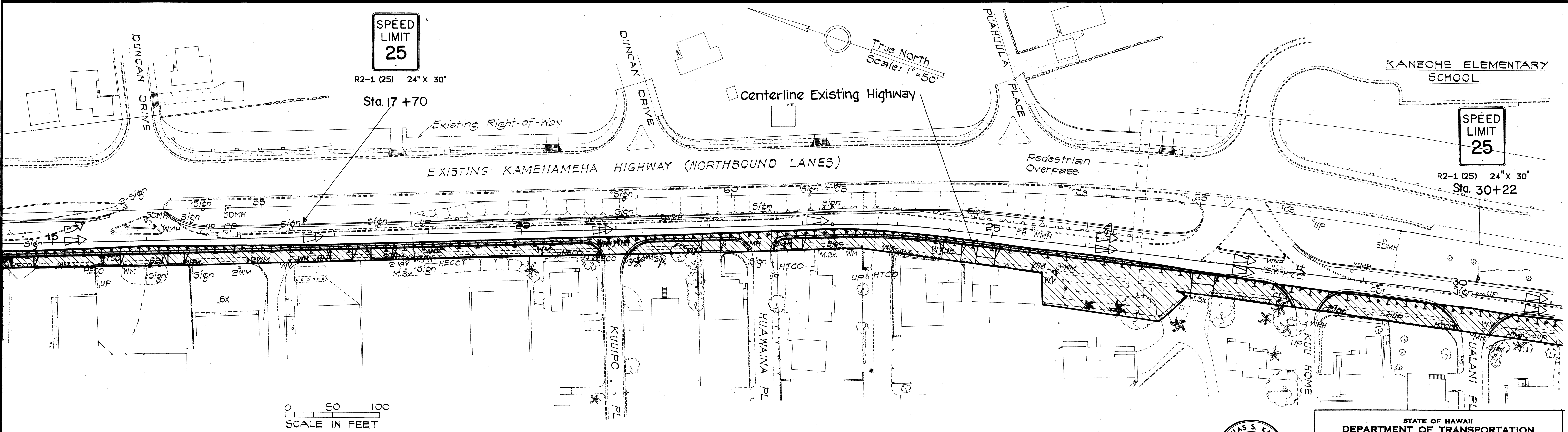
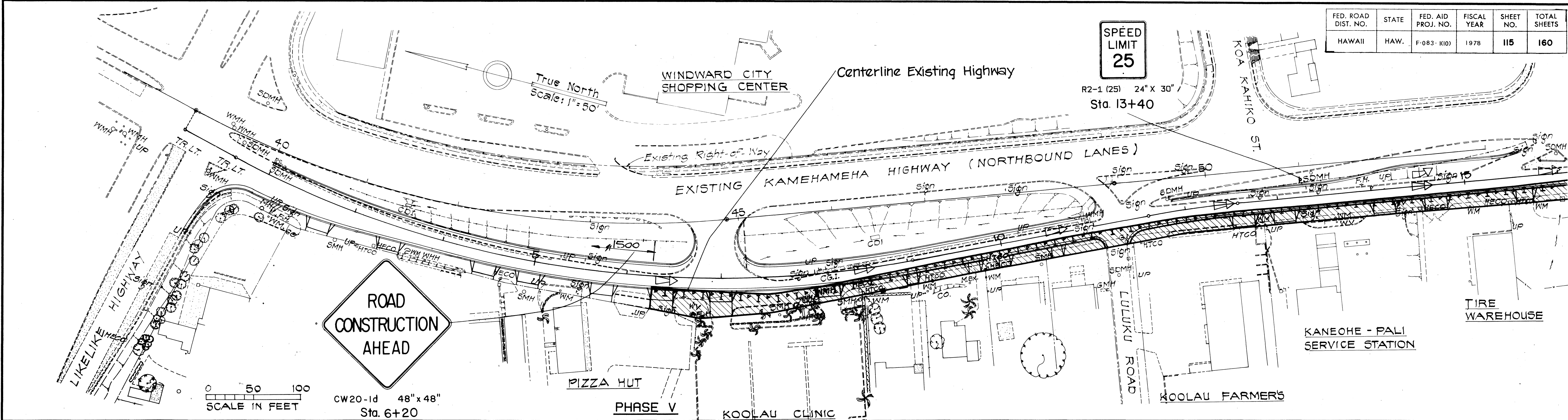
CONSTRUCTION PHASING

KAMEHAMEHA HIGHWAY IMPROVEMENT
(LIKELIKE HIGHWAY TO KOOLAU VIEW DRIVE)
PROJECT NO. F-083-1(10)

SCALE: As Shown DATE AUG 1978

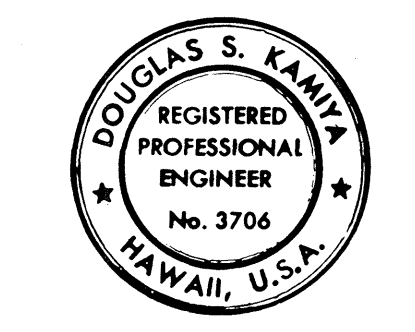
SHEET No. 3 OF 25 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(10)	1978	115	160



- Notes: 1. Intersections shall be opened to traffic at all times.
2. The contractor shall notify and coordinate with property owners at least 10 days prior to a temporary closure of driveways.

PHASE V



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

CONSTRUCTION PHASING

KAMEHAMEHA HIGHWAY IMPROVEMENT
(LIKELIKE HIGHWAY TO KOOLAU VIEW DRIVE)
PROJECT NO. F-083-1(10)

SCALE: As Shown DATE AUG 1978
SHEET No. 4 OF 25 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(10)	1978	116	160

HAWAIIAN MEMORIAL PARK

SPEED LIMIT 25
R2-1 (25) 24" X 30"

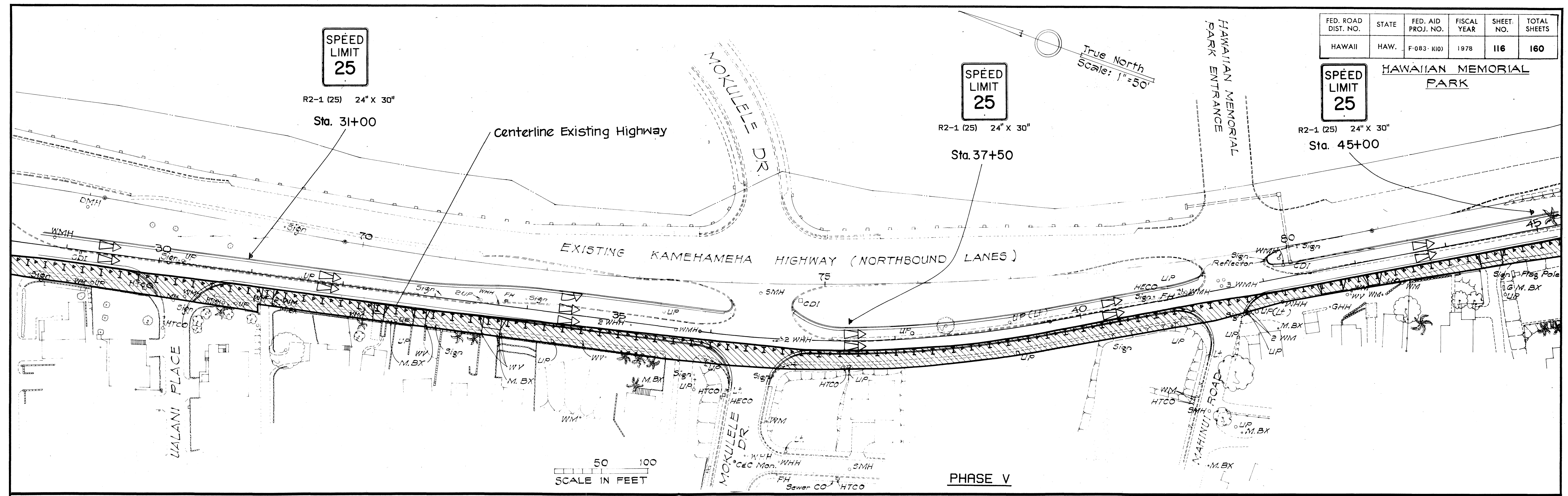
Sta. 45+00

SPEED LIMIT 25
R2-1 (25) 24" X 30"

Sta. 37+50

SPEED LIMIT 25
R2-1 (25) 24" X 30"

Sta. 31+00

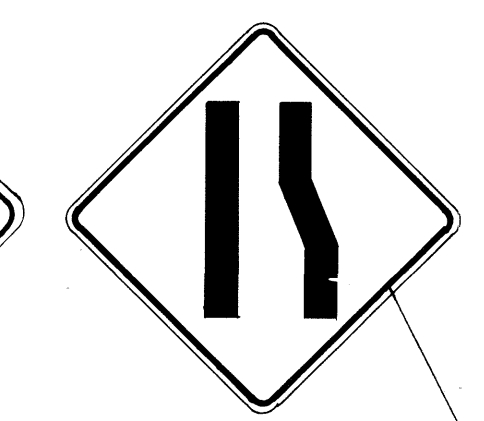


END CONSTRUCTION
CG 20-2 60" x 24"

500' Min.

SPEED LIMIT 25
R2-1 (25) 24" X 30"

Sta. 56+00



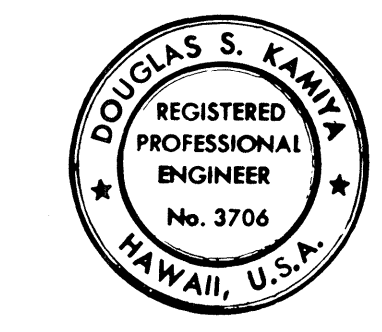
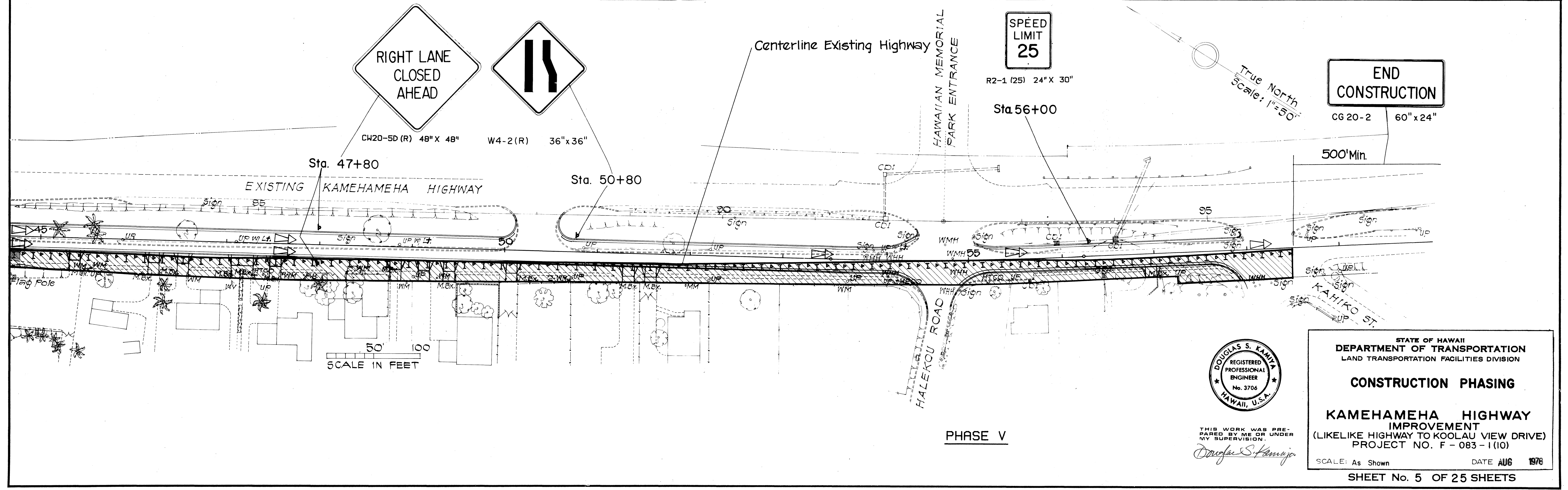
W4-2 (R) 36" x 36"



CH20-5D (R) 48" x 48"

Sta. 47+80

Sta. 50+80



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

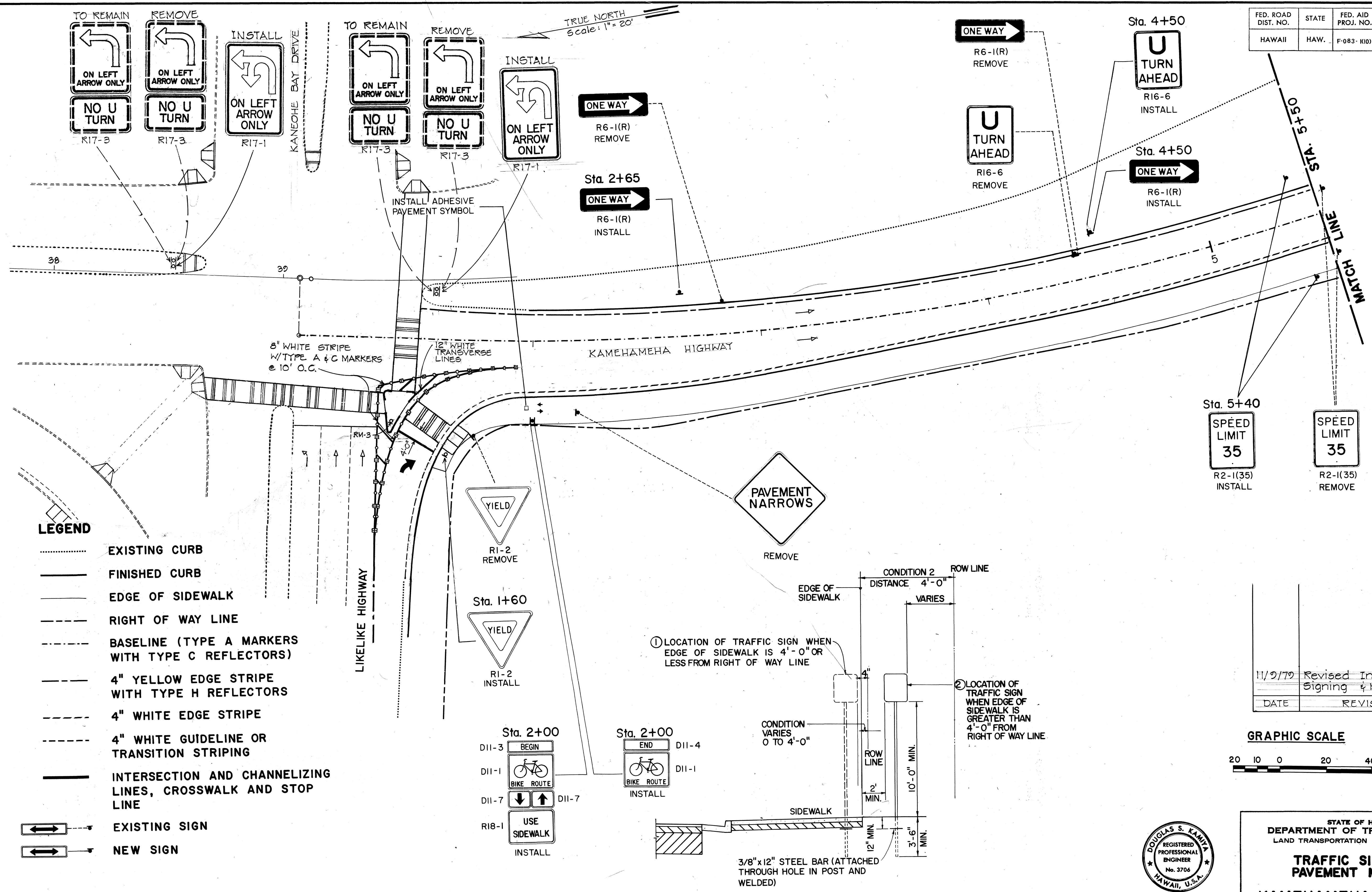
CONSTRUCTION PHASING

KAMEHAMEHA HIGHWAY IMPROVEMENT
(LIKELIKE HIGHWAY TO KOOLAU VIEW DRIVE)
PROJECT NO. F-083-1(10)

SCALE: As Shown DATE AUG 1978

SHEET No. 5 OF 25 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(10)	1978	117	160

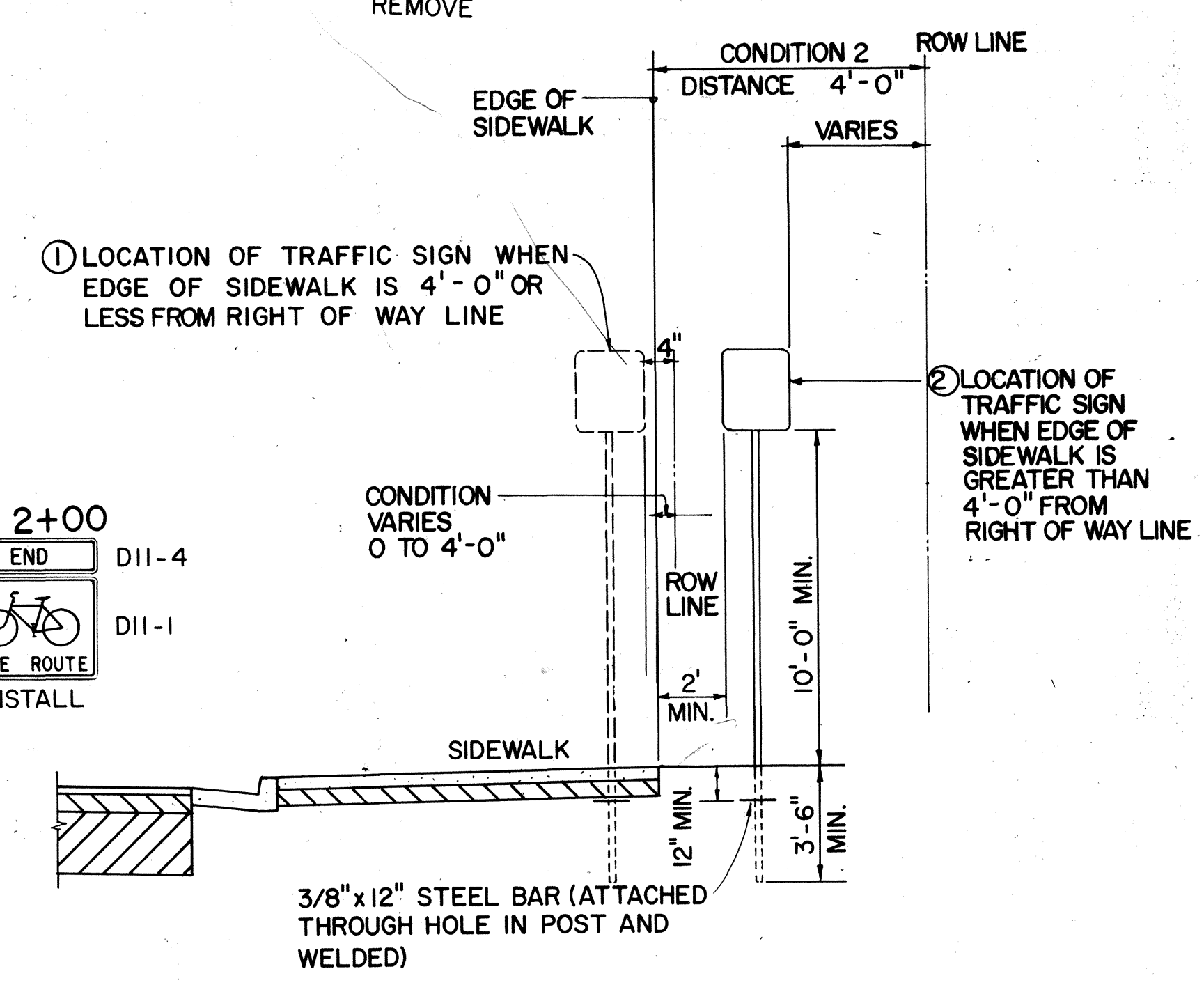


LEGEND

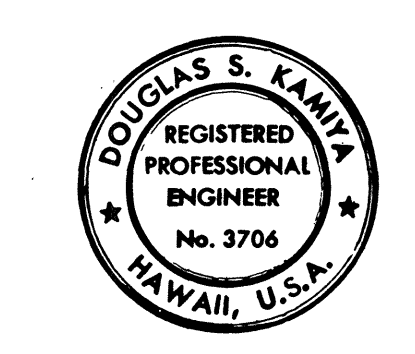
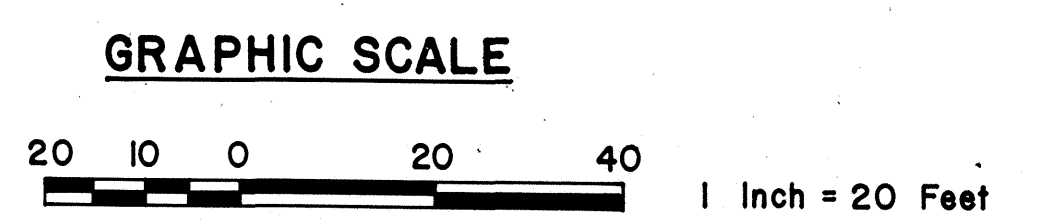
- EXISTING CURB
- FINISHED CURB
- EDGE OF SIDEWALK
- RIGHT OF WAY LINE
- BASELINE (TYPE A MARKERS WITH TYPE C REFLECTORS)
- 4" YELLOW EDGE STRIPE WITH TYPE H REFLECTORS
- 4" WHITE EDGE STRIPE
- 4" WHITE GUIDELINE OR TRANSITION STRIPING
- INTERSECTION AND CHANNELIZING LINES, CROSSWALK AND STOP LINE
- ◀———— EXISTING SIGN
- ▶———— NEW SIGN

NOTE
 1. ALL PERMANENT BUS STOP LOCATIONS SHALL BE COORDINATED BETWEEN THE CONTRACTOR AND CITY AND COUNTY OF HONOLULU, DEPARTMENT OF TRANSPORTATION SERVICES, MASS TRANSIT (523-4581)

HEIGHT AND LATERAL LOCATION OF SIGNS
 NOT TO SCALE



11/2/79	Revised Intersection Signing & Markings
DATE	REVISION



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STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 LAND TRANSPORTATION FACILITIES DIVISION

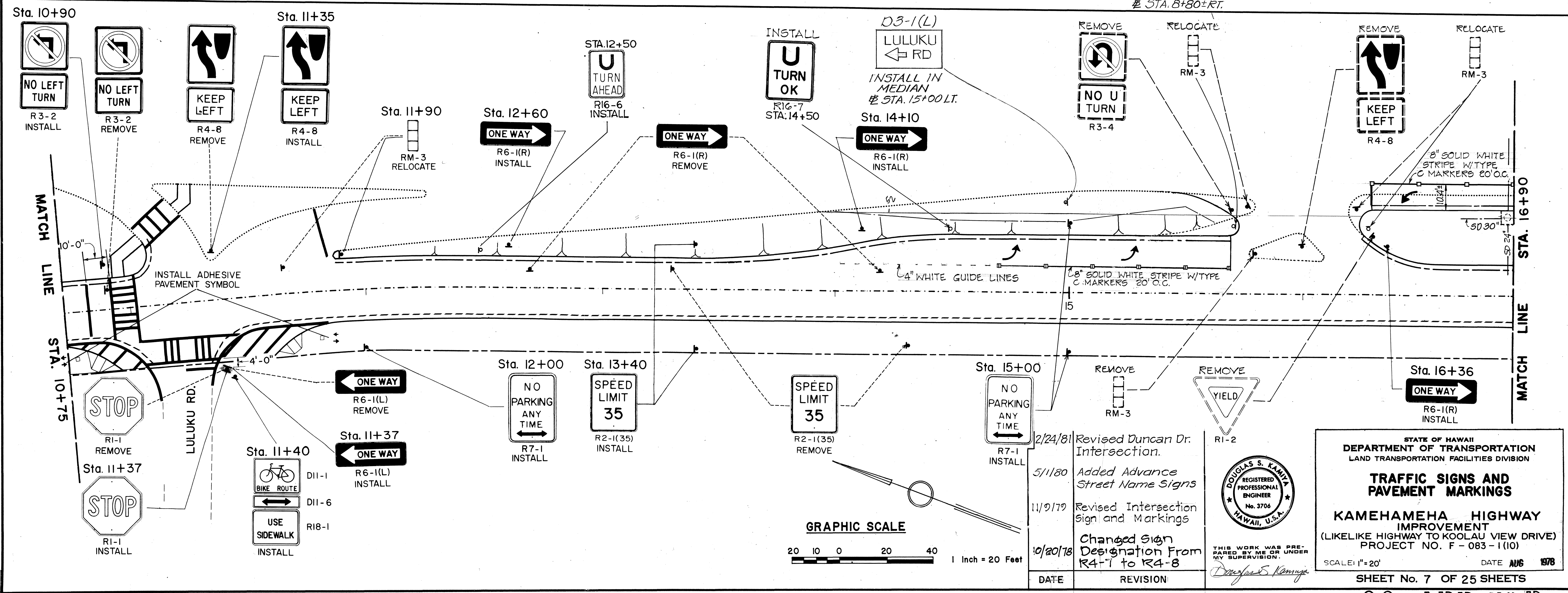
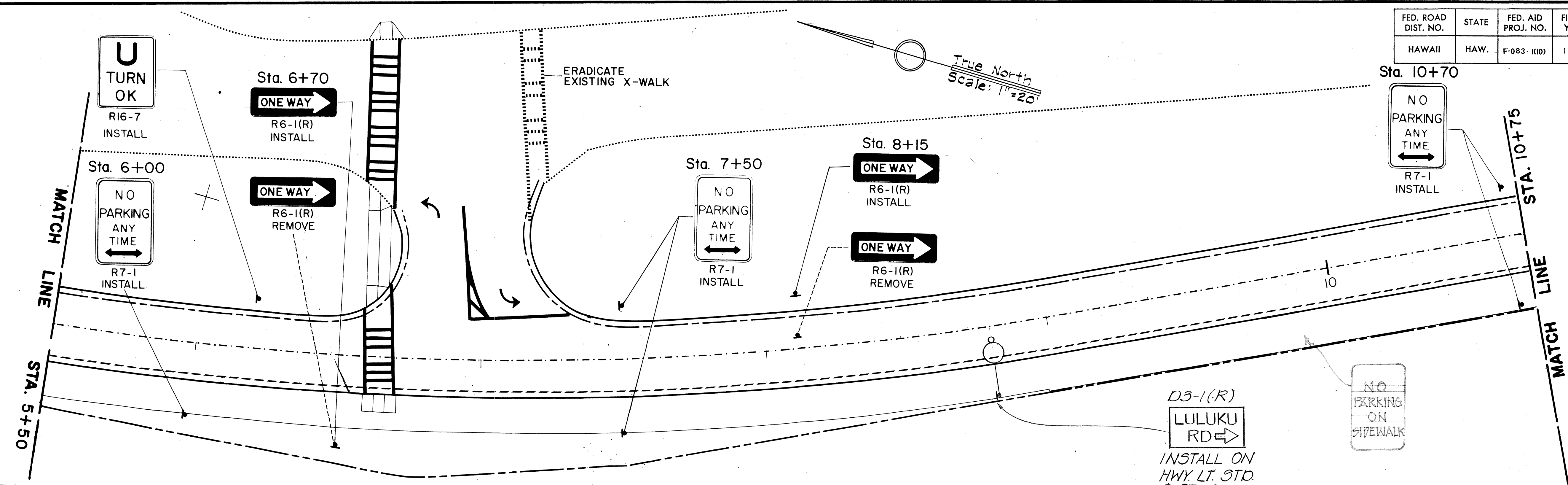
TRAFFIC SIGNS AND PAVEMENT MARKINGS

KAMEHAMEHA HIGHWAY IMPROVEMENT
 (LIKELIKE HIGHWAY TO KOOLAU VIEW DRIVE)
 PROJECT NO. F - 083 - 1 (10)

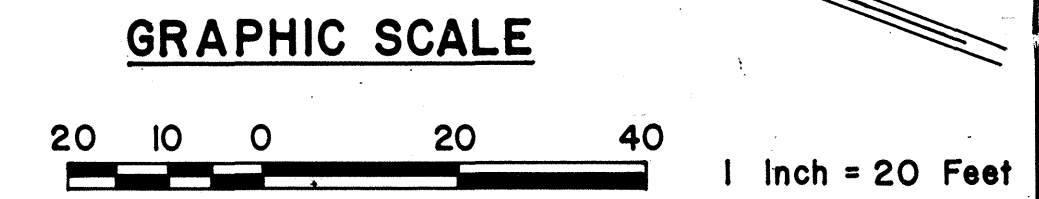
SCALE: 1"=20' DATE: 11/8/78

SHEET No. 6 OF 25 SHEETS

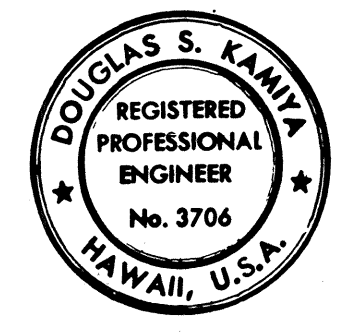
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(10)	1978	118	160



DATE	
DESIGNED BY	
CHECKED BY	
NO.	



DATE	REVISION
2/24/81	Revised Duncan Dr. Intersection.
5/1/80	Added Advance Street Name Signs
11/9/79	Revised Intersection Sign and Markings
10/20/78	Changed Sign Designation From R4-1 to R4-8



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

TRAFFIC SIGNS AND PAVEMENT MARKINGS

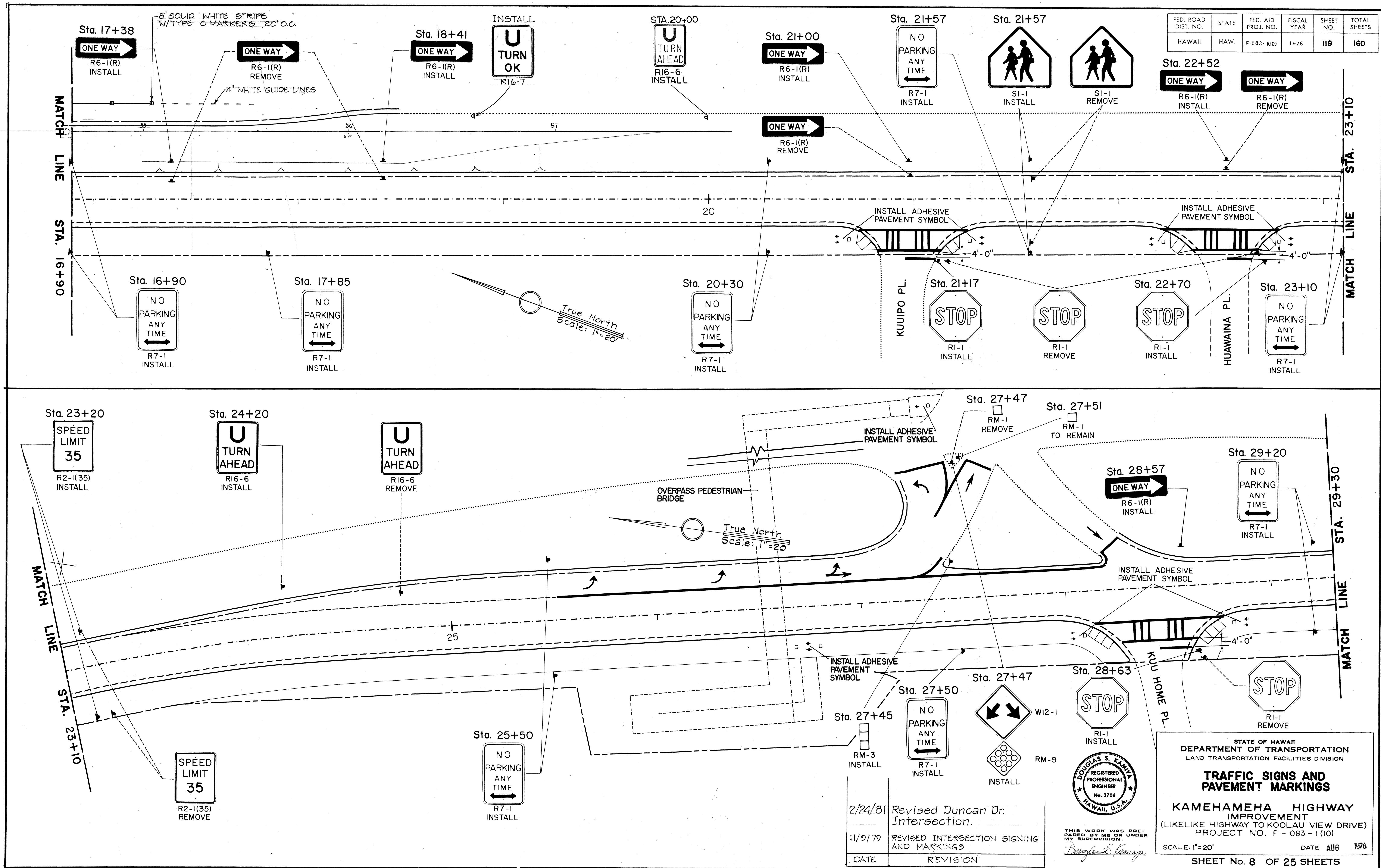
KAMEHAMEHA HIGHWAY IMPROVEMENT
(LIKELIKE HIGHWAY TO KOOLAU VIEW DRIVE)
PROJECT NO. F-083-1(10)

SCALE: 1"=20' DATE AUG 1978

SHEET No. 7 OF 25 SHEETS

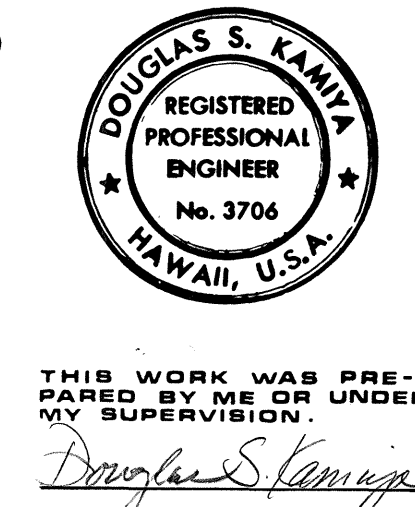
C.O. ADD. 118 12

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(10)	1978	119	160



DATE	
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

2/24/81	Revised Duncan Dr. Intersection.
11/9/79	REVISED INTERSECTION SIGNING AND MARKINGS
DATE	REVISION



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

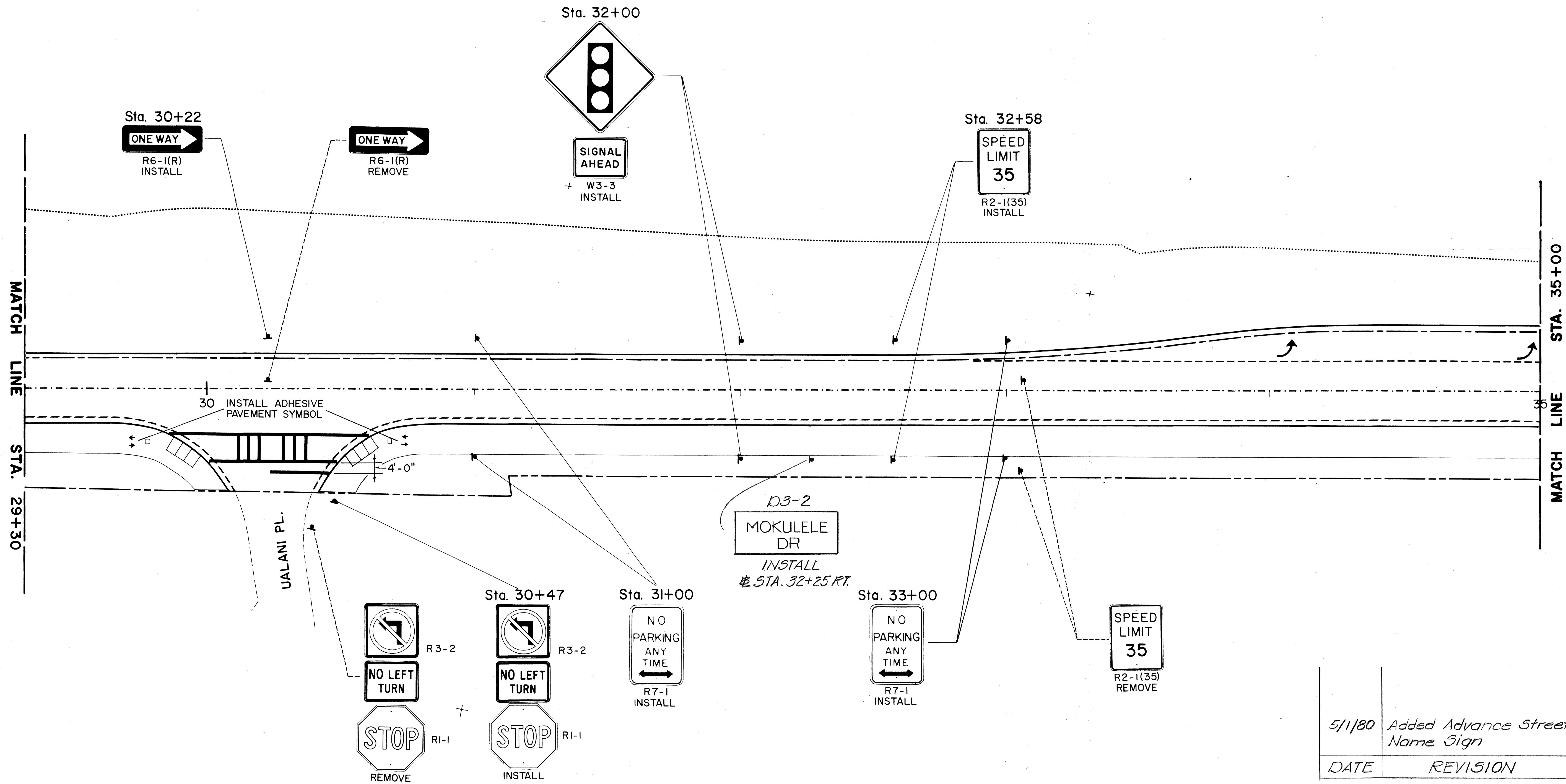
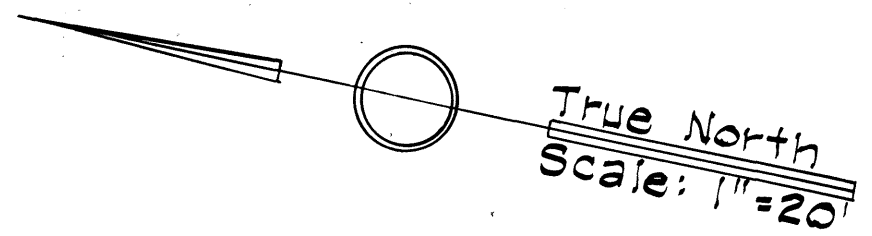
TRAFFIC SIGNS AND PAVEMENT MARKINGS

KAMEHAMEHA HIGHWAY IMPROVEMENT
(LIKELIKE HIGHWAY TO KOOLAU VIEW DRIVE)
PROJECT NO. F-083-1(10)

SCALE: 1"=20' DATE AUG 1978

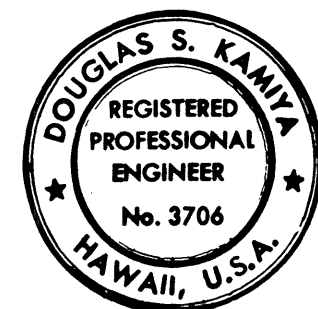
SHEET No. 8 OF 25 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(10)	1978	120	160



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
TRACED BY		
NOTED BY		
CHECKED BY		
NO.		

GRAPHIC SCALE



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5/1/80	Added Advance Street Name Sign
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

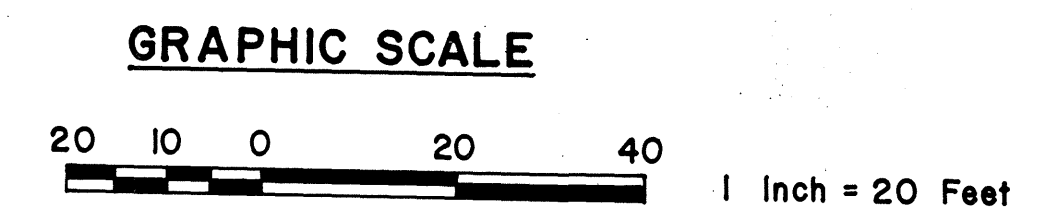
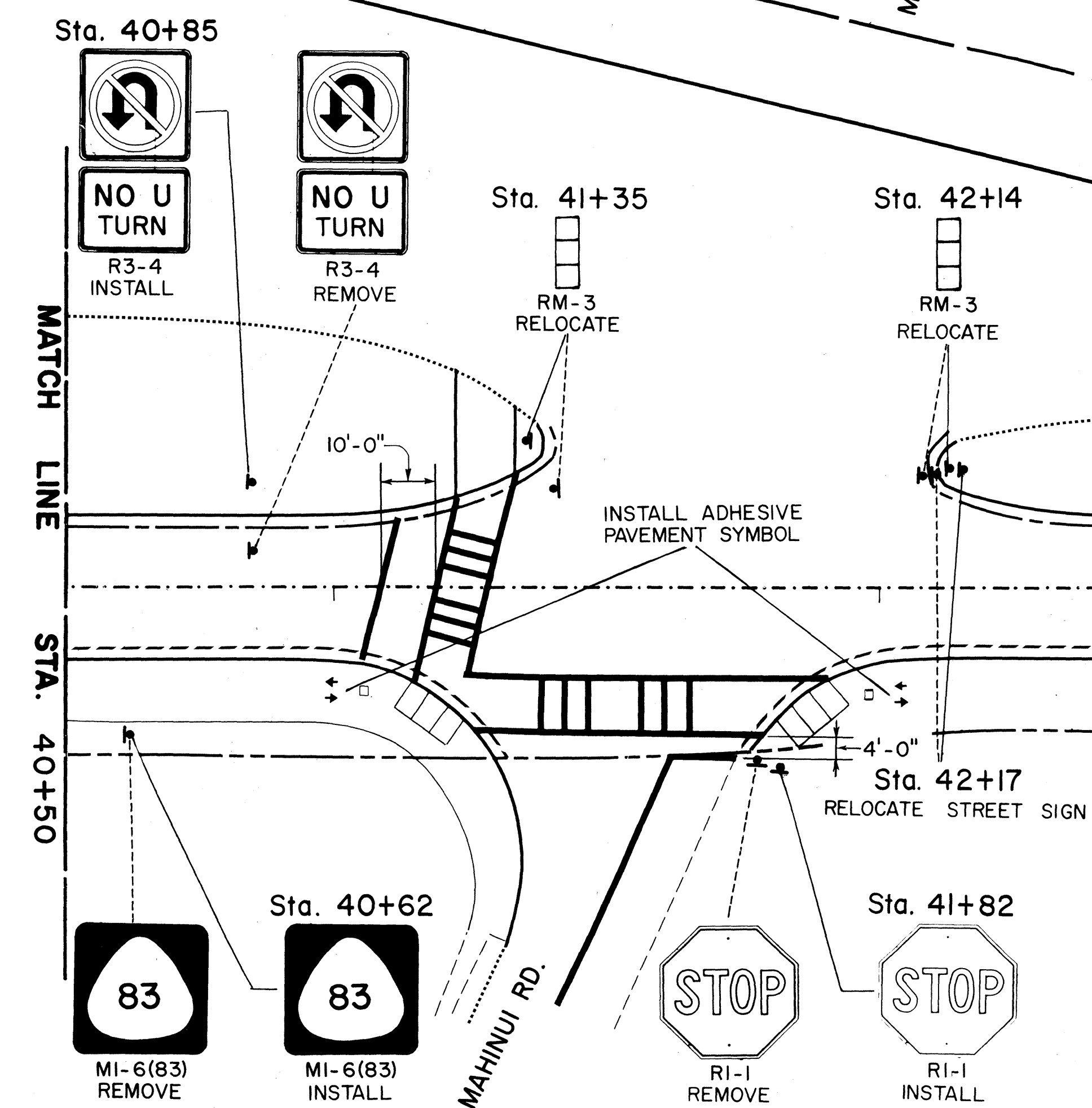
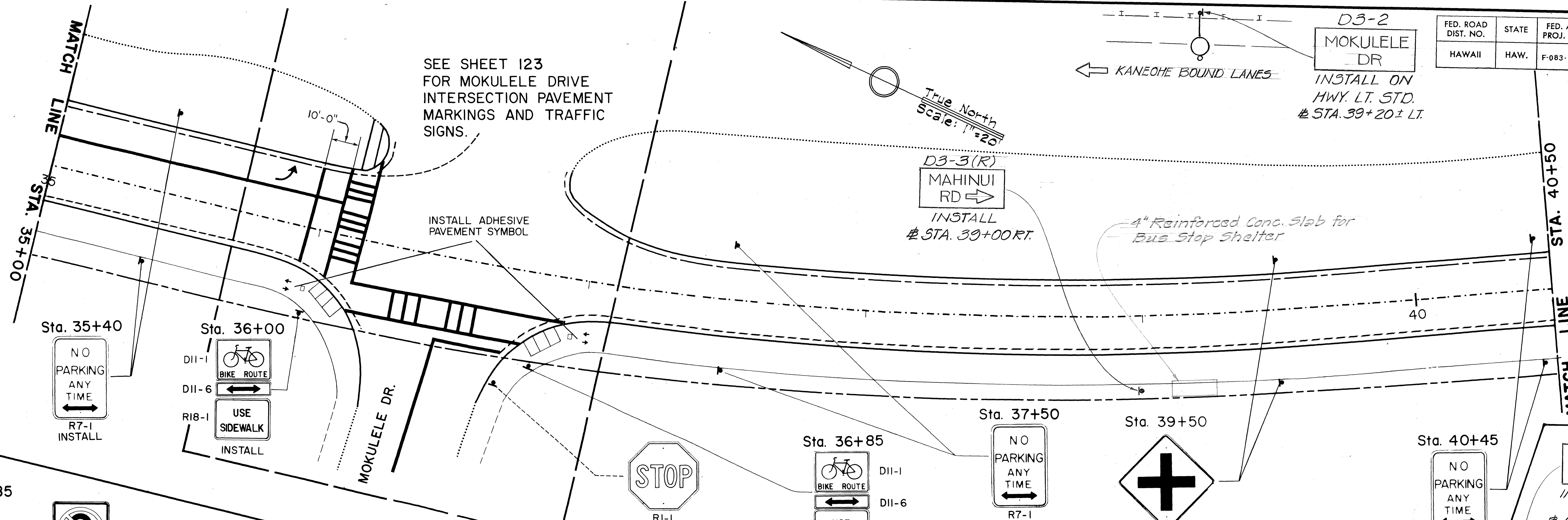
TRAFFIC SIGNS AND PAVEMENT MARKINGS

KAMEHAMEHA HIGHWAY IMPROVEMENT
(LIKELIKE HIGHWAY TO KOOLAU VIEW DRIVE)
PROJECT NO. F-083-1(10)

SCALE: 1"=20' DATE AUG 1978

SHEET No. 9 OF 25 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(10)	1978	121	160



5/1/80	Added Advance Street Name Signs
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

TRAFFIC SIGNS AND PAVEMENT MARKINGS

KAMEHAMEHA HIGHWAY IMPROVEMENT
(LIKELIKE HIGHWAY TO KOOLAU VIEW DRIVE)
PROJECT NO. F-083-1(10)

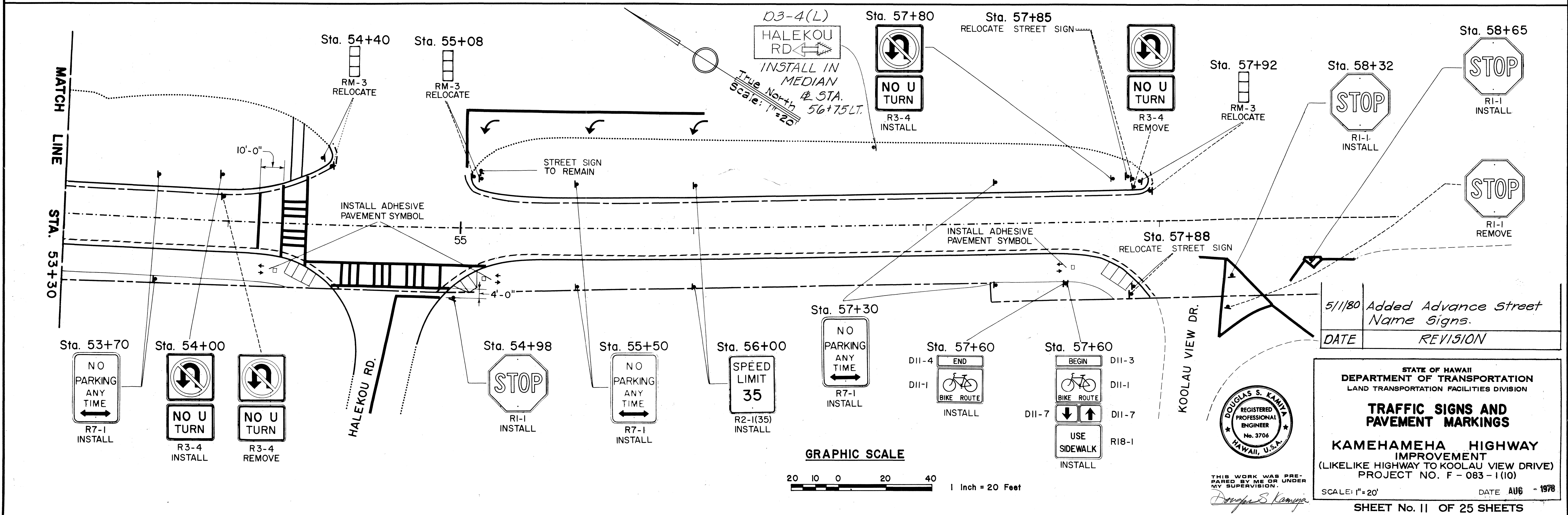
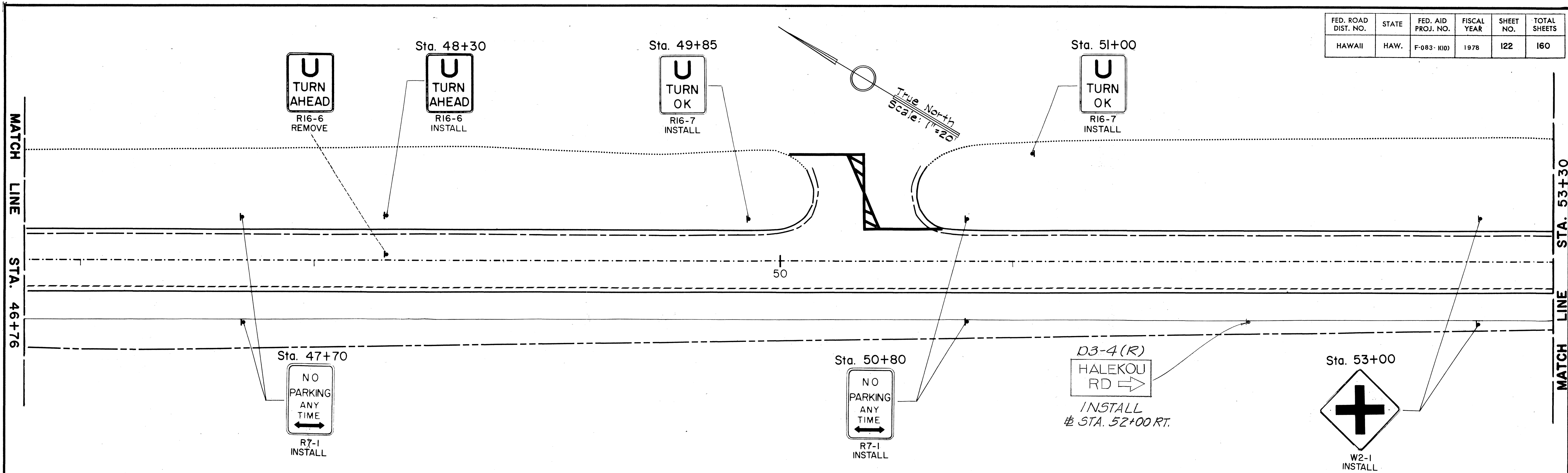
SCALE: 1"=20' DATE: AUG - 1978

SHEET No. 10 OF 25 SHEETS

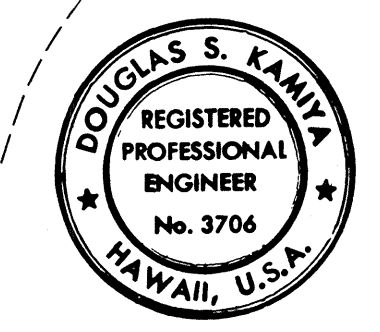
DESIGNED BY	
CHECKED BY	
DATE	
ORIGINAL PLAN	
NO. 1	

C.O. 121

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(10)	1978	122	160



5/1/80	Added Advance Street Name Signs.
DATE	REVISION



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

TRAFFIC SIGNS AND PAVEMENT MARKINGS

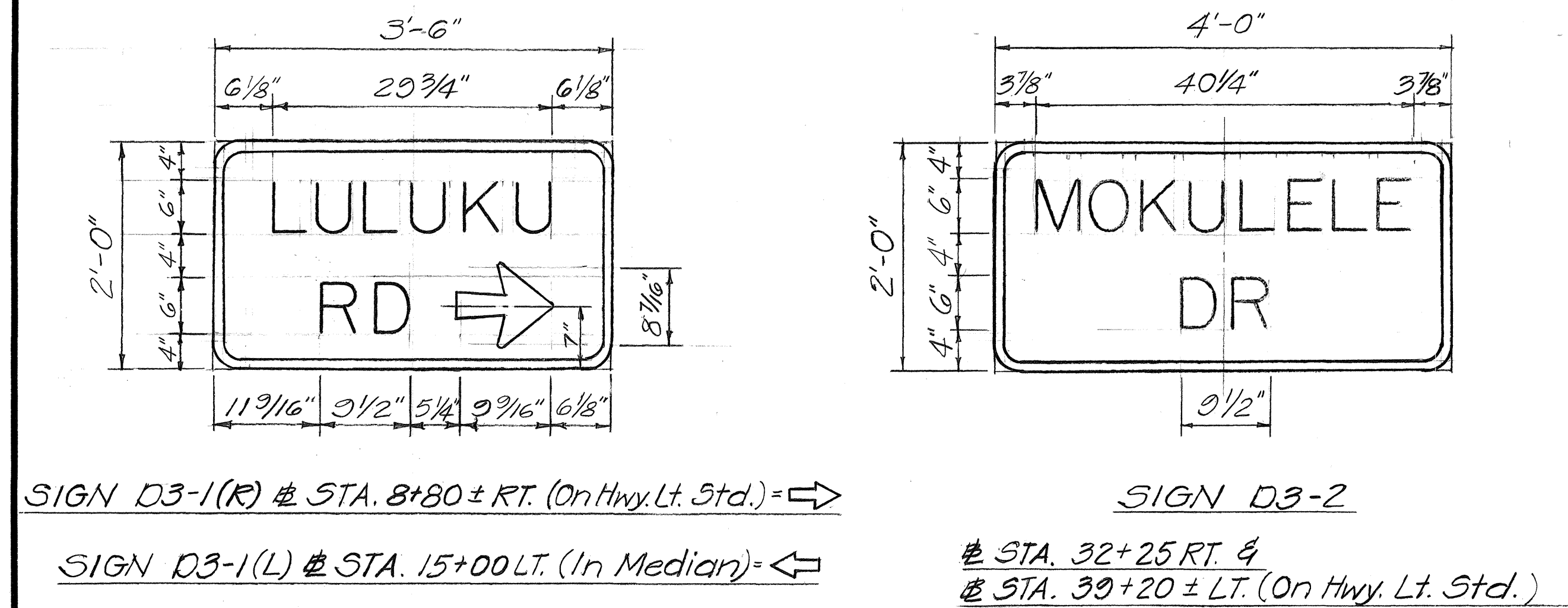
KAMEHAMEHA HIGHWAY IMPROVEMENT
(LIKELIKE HIGHWAY TO KOOLAU VIEW DRIVE)
PROJECT NO. F - 083 - 1(10)

SCALE: 1"=20' DATE AUG - 1978

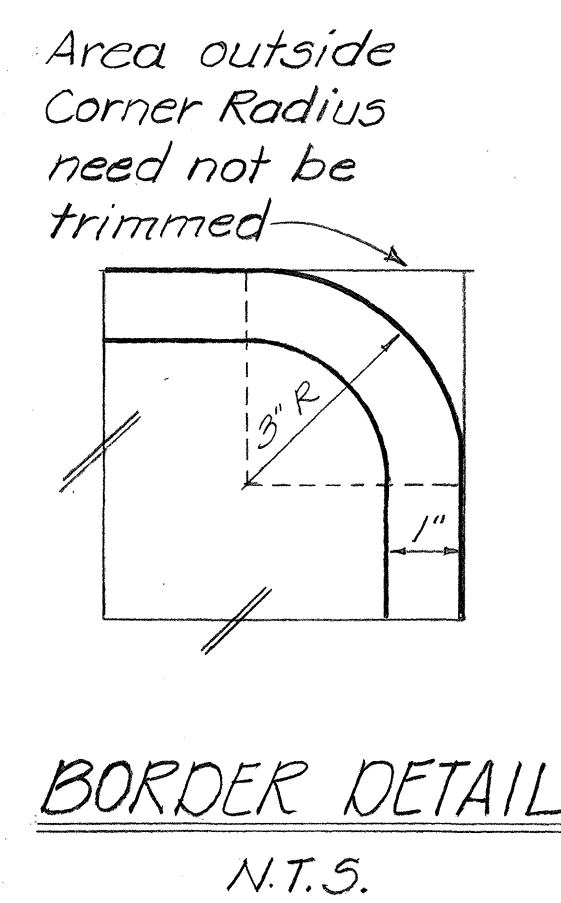
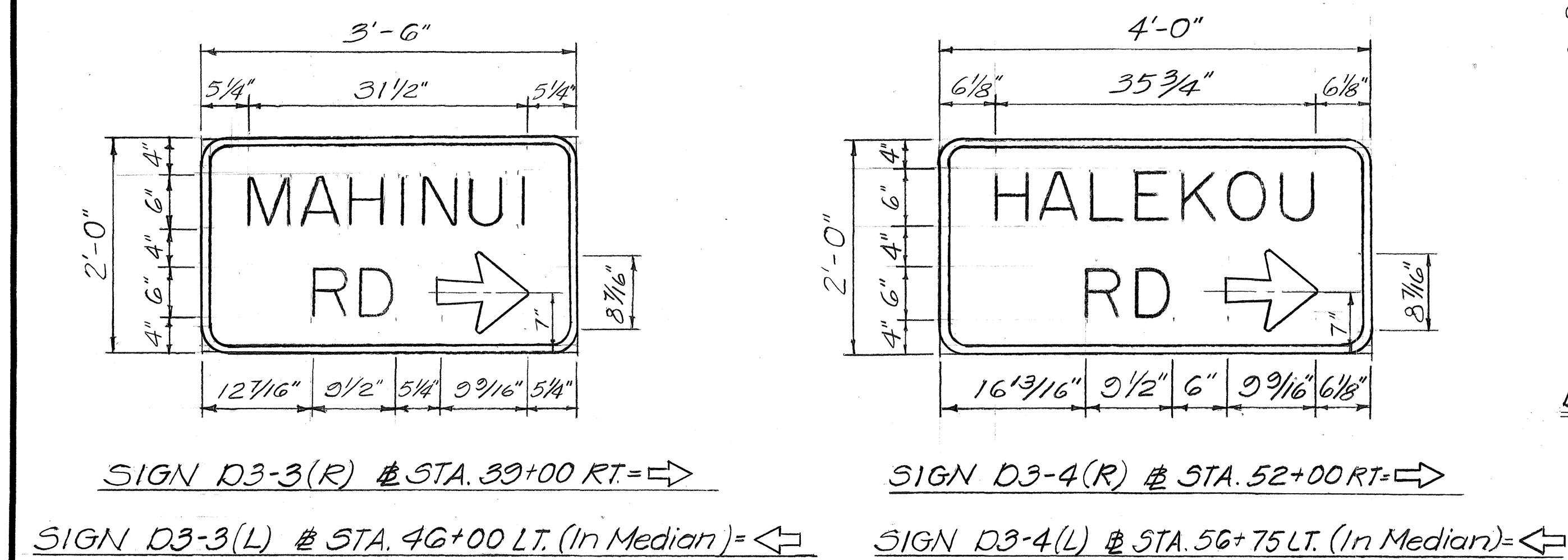
SHEET No. 11 OF 25 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(10)	1980	C.O.1225-1	160



ARROW DETAIL
N.T.S.

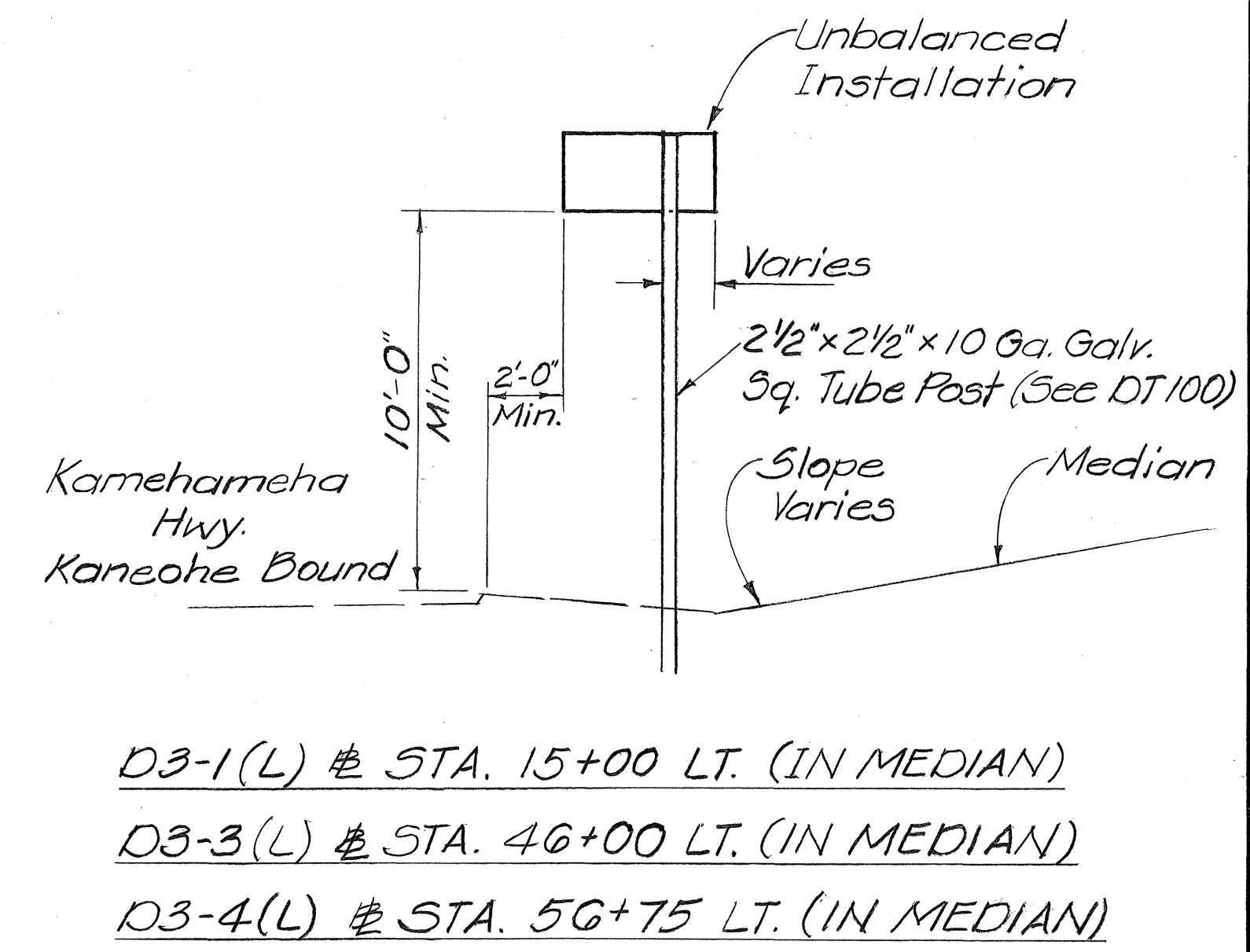
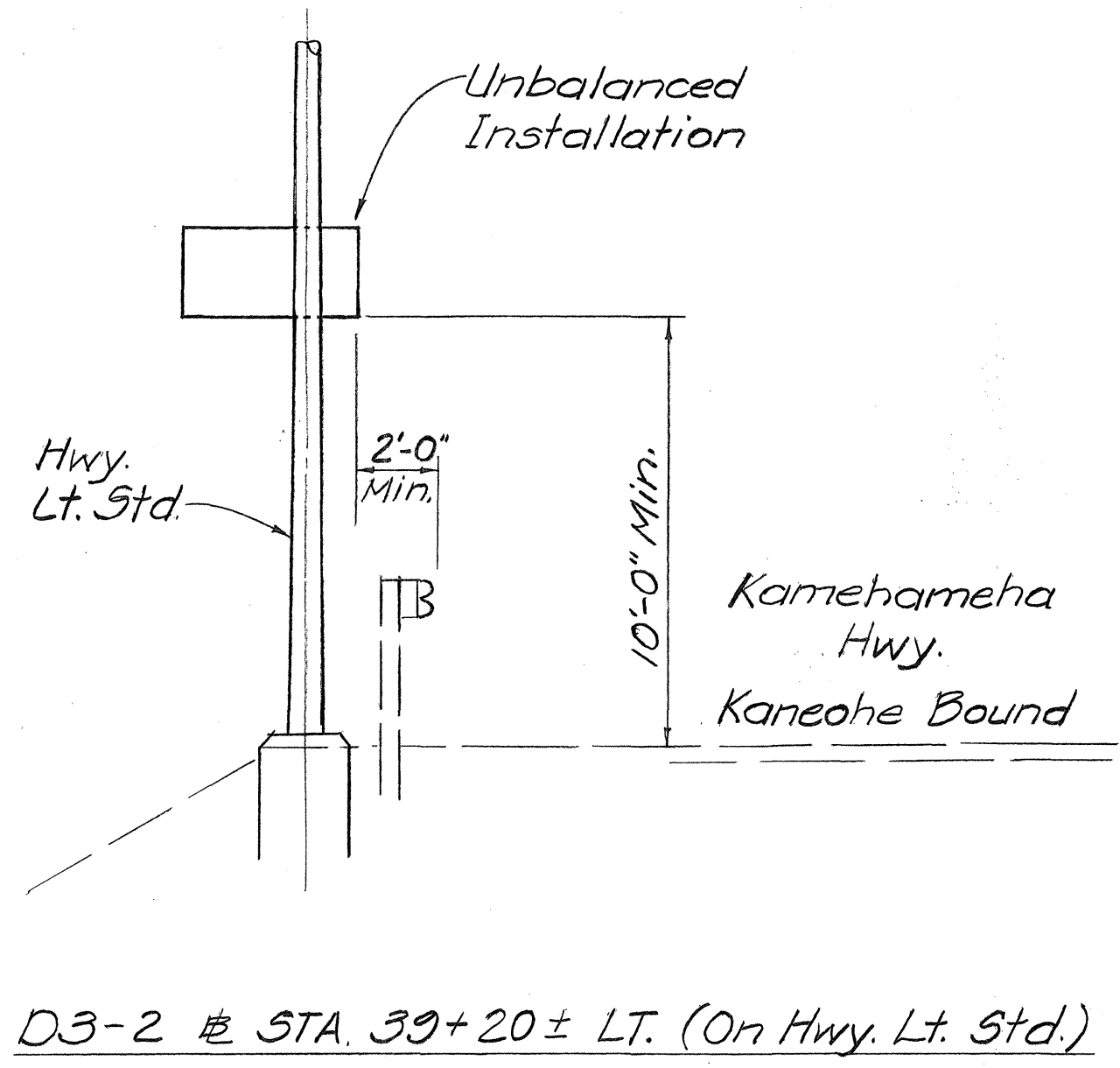
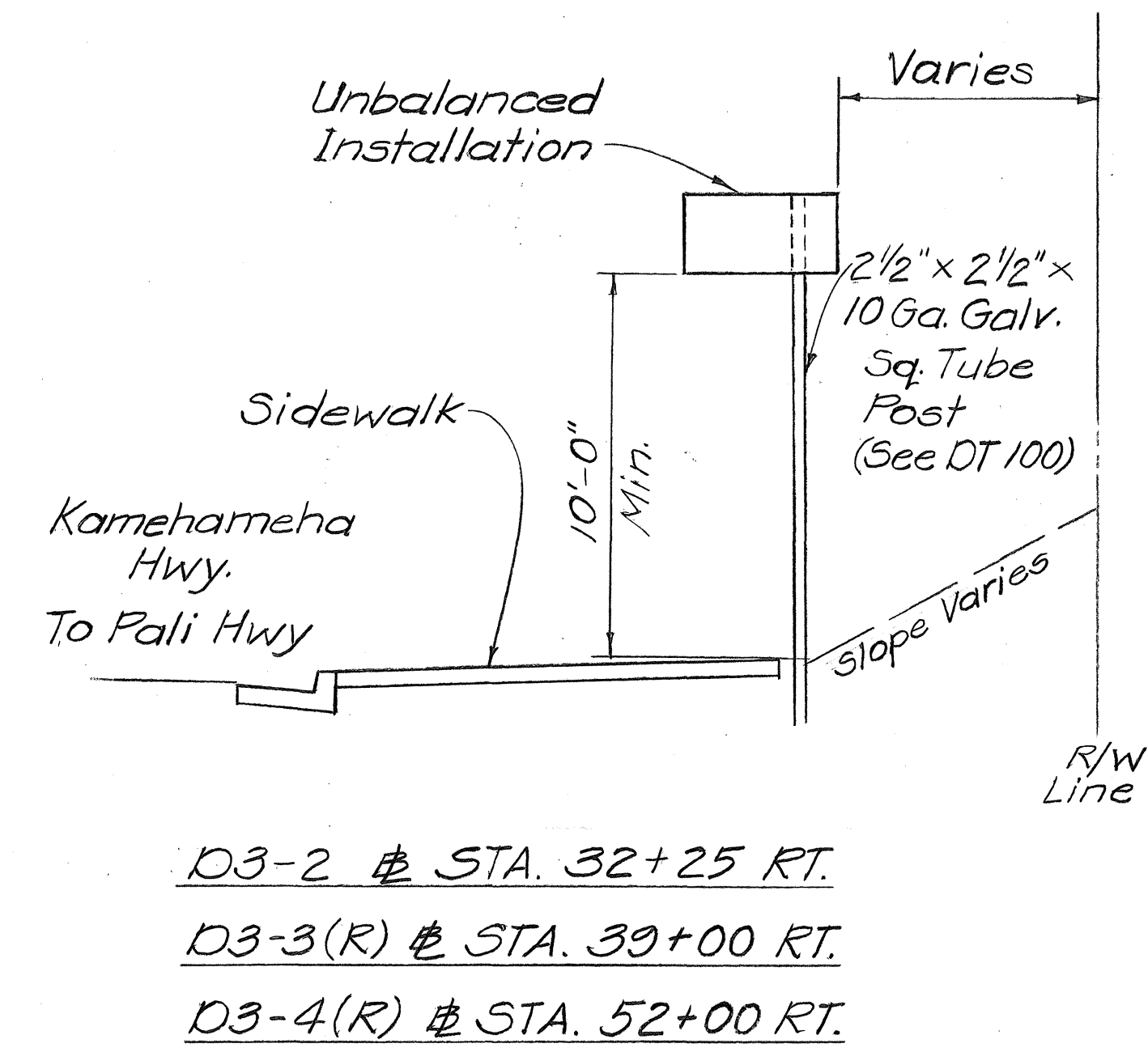
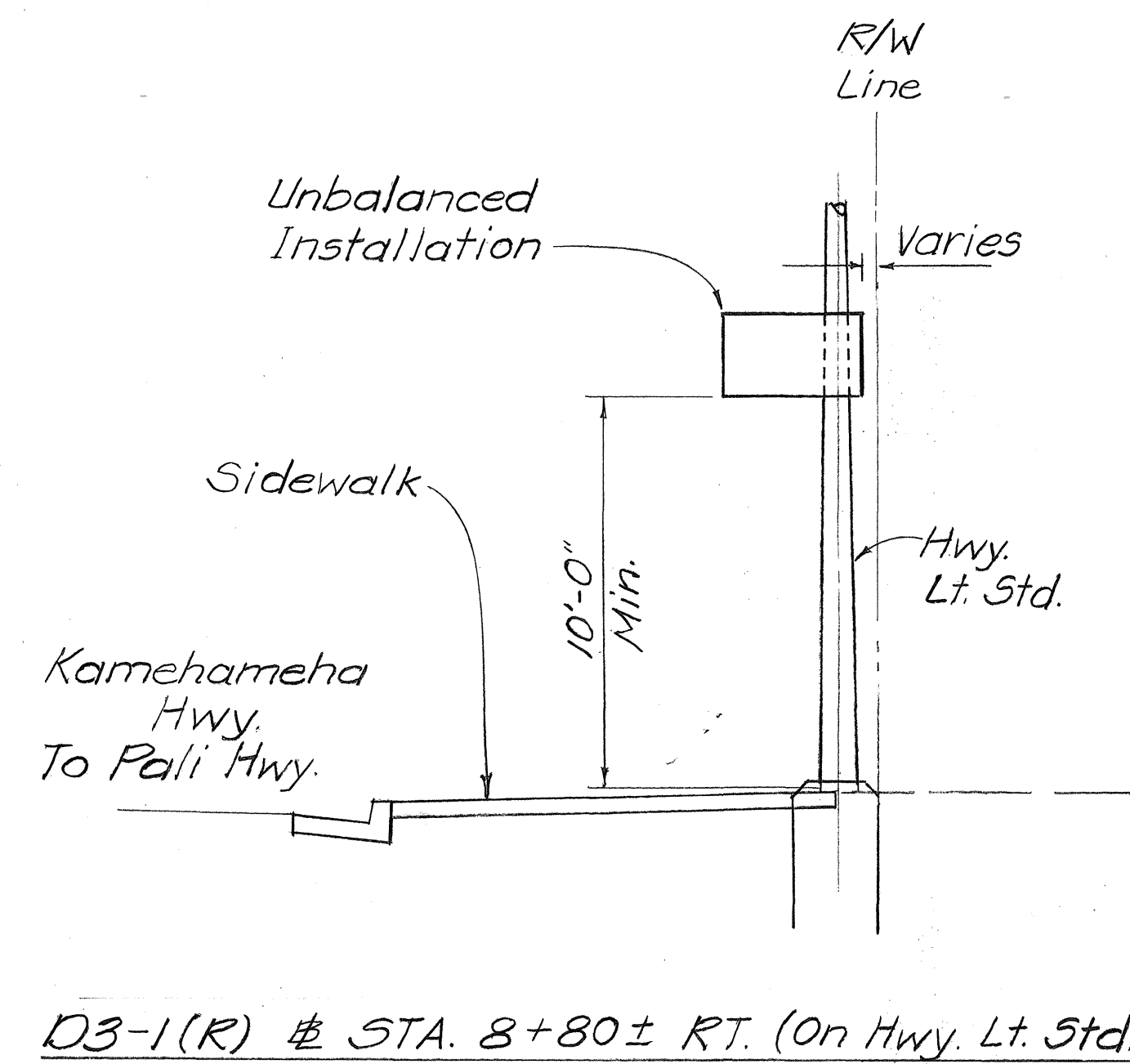


PANEL LAYOUT

SCALE: 1"=1'-0"

STREET NAME SIGN NOTES:

- Street name signs (D3-) shall conform to the latest FHWA publications: "Manual on Uniform Traffic Control Devices for Streets & Highways" and as amended & "Standard Alphabets for Highway Signs".
- Letters: Series D Upper Case
Color: Letters } White Reflective Sheeting on Demountable Aluminum Cut-Outs fastened to
Borders } Sign Panel with Aluminum Blind Rivets.
Arrows }
Background } Green Reflective Sheeting
Sign Panel: 0.100" TH. Sheet Aluminum.
- If splicing of Sign Panel is necessary, contractor shall submit splice details to Engineer for approval.
- For Typical Frame Layout See Plan Sht. #122.5-2 "Unbalanced Sign Installation".



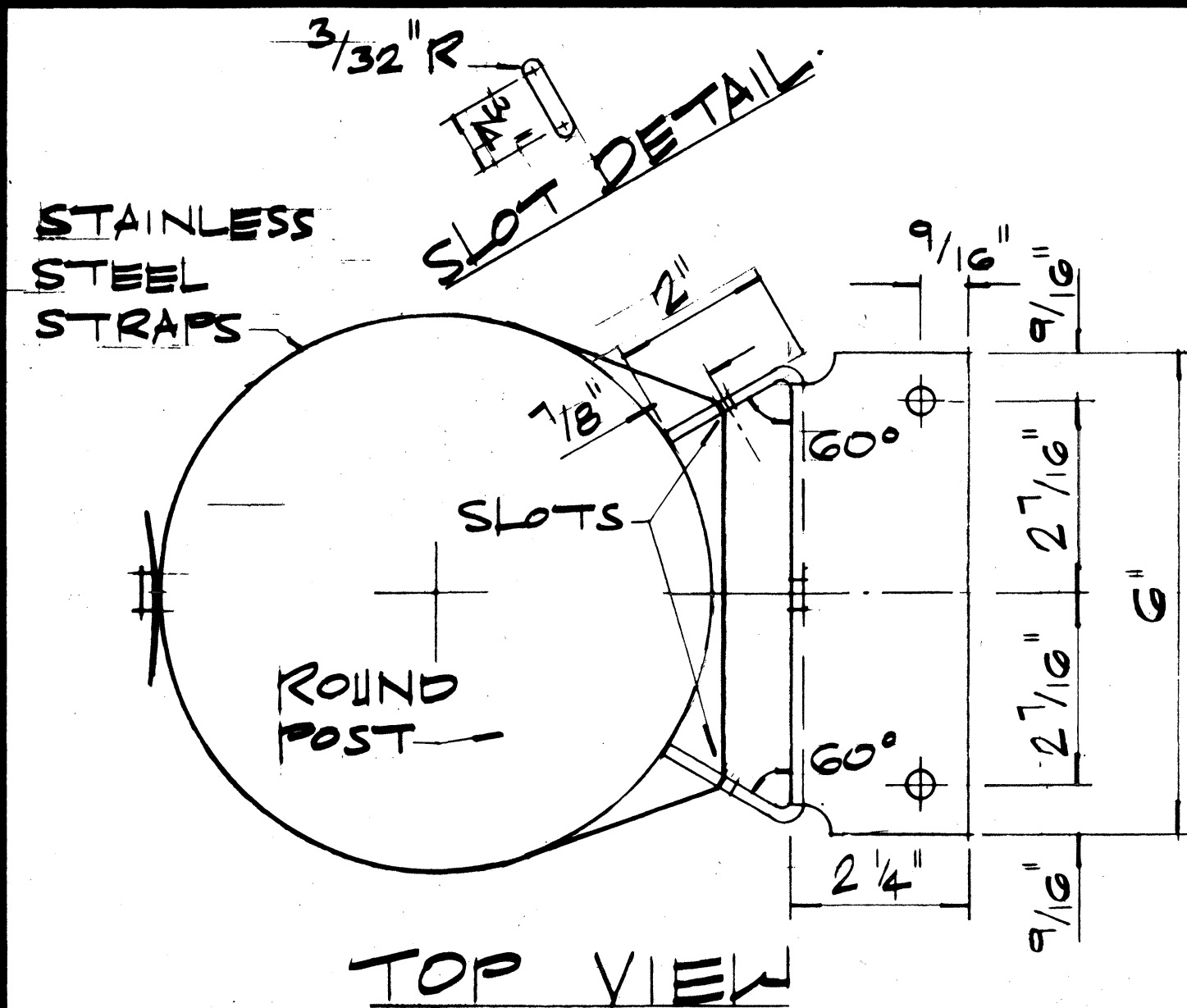
SIGN MOUNTING DETAILS

SCALE: 1/4"=1'-0"

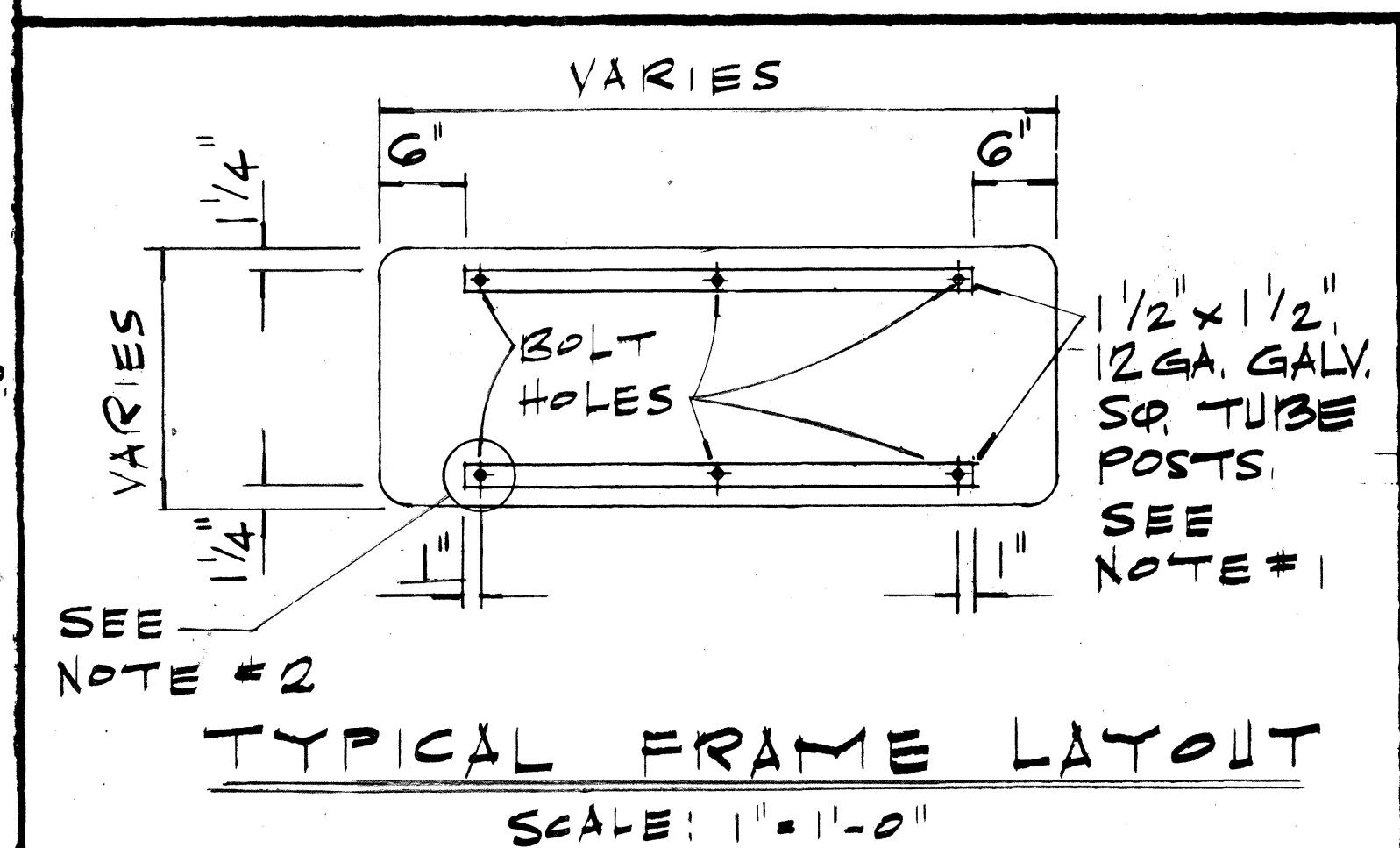
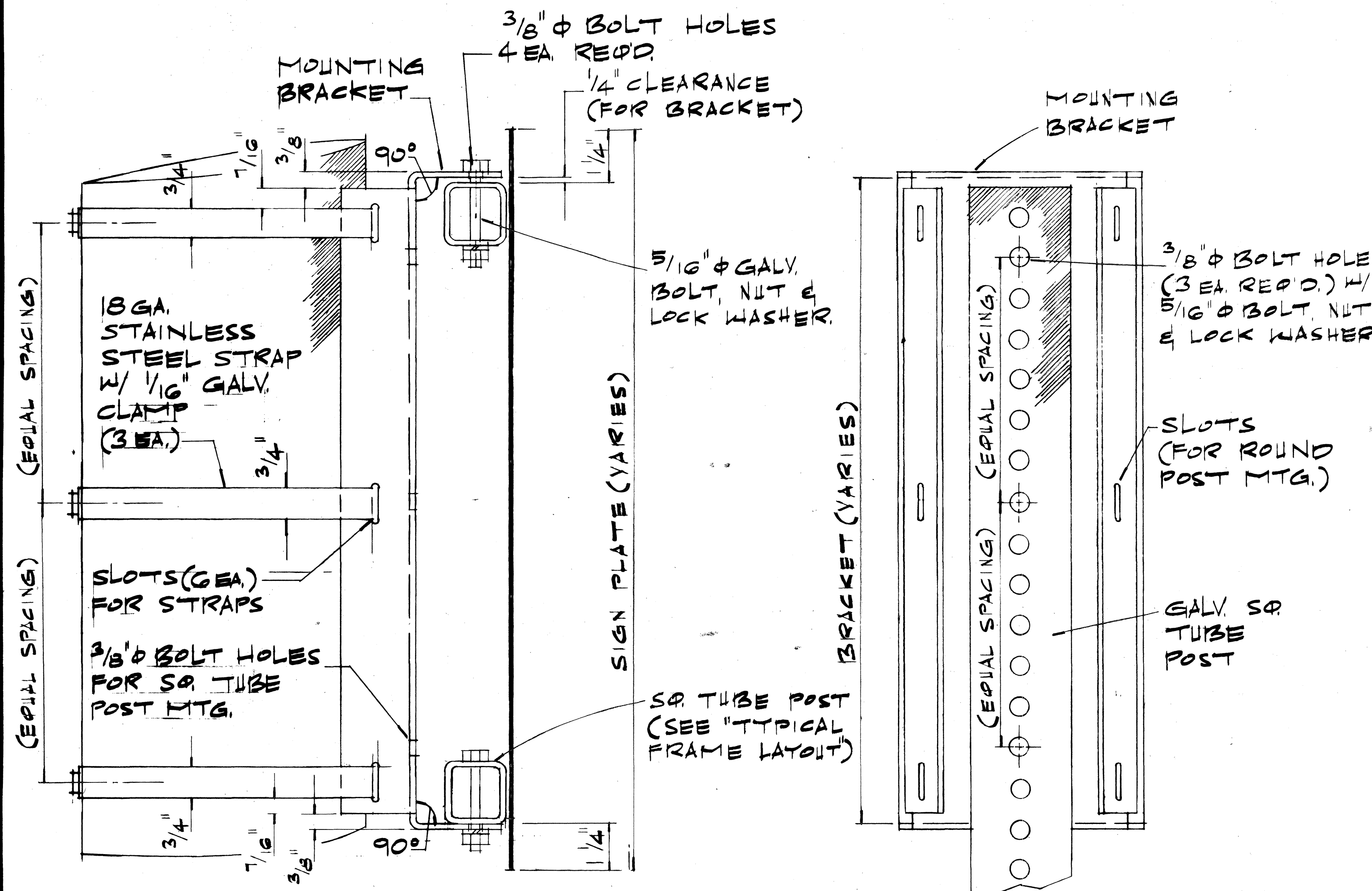
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

ADVANCE STREET NAME SIGNS
KAMEHAMEHA HIGHWAY IMPROVEMENT
(LIKELIKE HIGHWAY TO KOOLAU VIEW DRIVE)
PROJECT NO. F-083-1(10)
SCALE: AS SHOWN
DATE: MAY 1978
SHEET NO. OF SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(10)	1980	C.O.12252	160



- NOTE:**
1. MATERIAL TO BE 12 GA. HOT ROLLED STEEL SHEET, LOW CARBON, COMMERCIAL QUALITY, SPECIFICATIONS QPS-636, GRADE 1010.
 2. BRACKET TO BE HOT DIPPED GALV. AFTER FABRICATION PER SPECIFICATION ASTM-A-123-68.
 3. ALL BEND RADI TO BE 1/8"
 4. DEBURR ALL SHARP EDGES
 5. TOLERANCES: DIMENSIONS, $\pm 1/32"$
ANGLES, $\pm 0^\circ-30'$



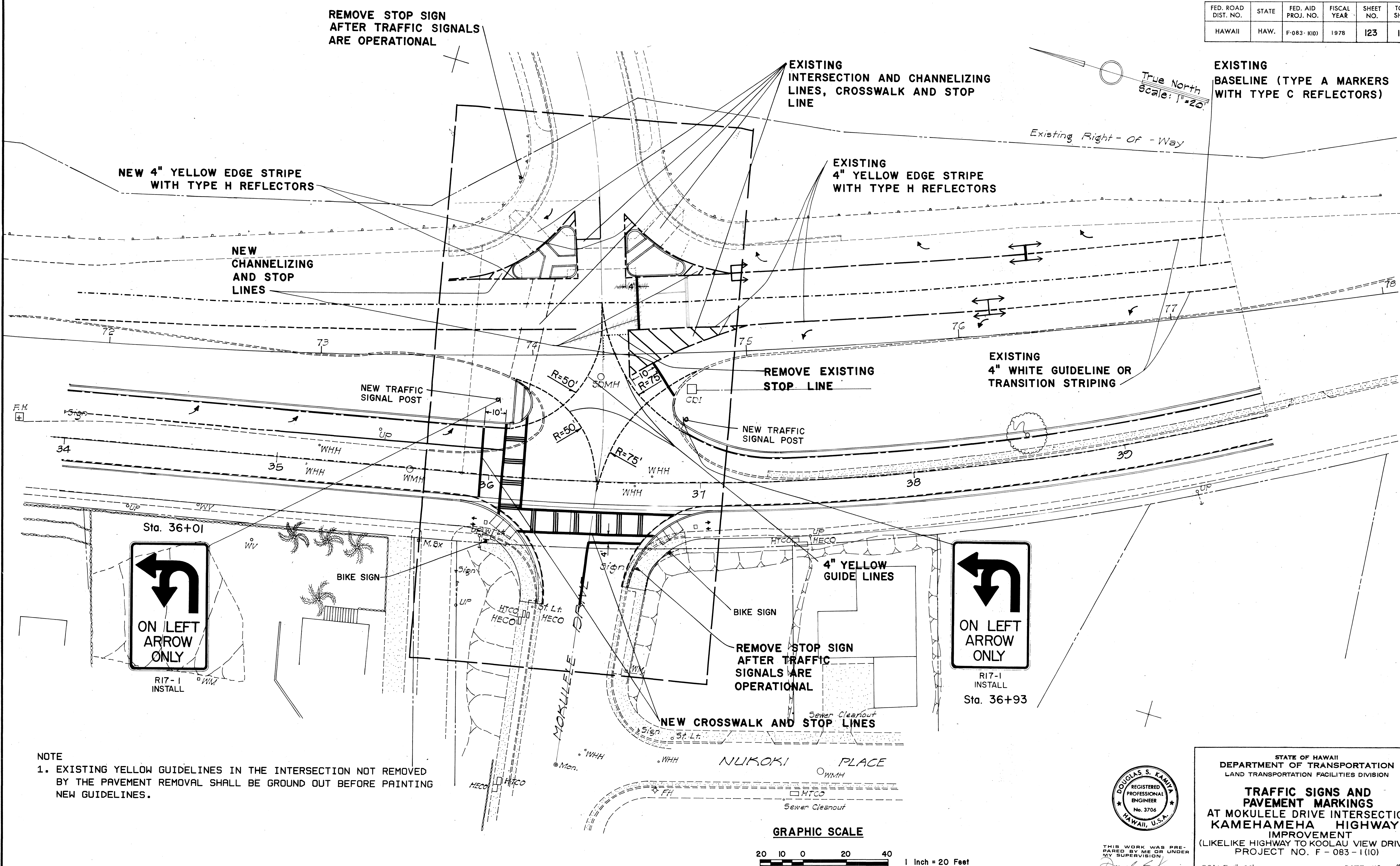
- NOTE:**
1. SQ. TUBE POSTS SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS.
 2. SIGN PANEL SHALL BE ATTACHED TO SQ. TUBE POST WITH 5/16" ϕ GALV. BOLT, NUT, LOCK WASHER & 1/8" x 0.06" STAINLESS STEEL FLAT WASHER WITH NEOPRENE RUBBER GASKET.

MOUNTING BRACKET FOR UNBALANCED SIGN INSTALLATION
HALF SCALE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION LAND TRANSPORTATION FACILITIES DIVISION				
UNBALANCED SIGN INSTALLATION				
KAMEHAMEHA HIGHWAY IMPROVEMENT (LIKELIKE HIGHWAY TO KOOLAU VIEW DRIVE)				
PROJECT NO. F-083-1(10)				
SCALE: AS SHOWN DATE: MAY 1978				
SHEET NO. OF SHEETS				

C.O.1225-2

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(10)	1978	123	160



NOTE
1. EXISTING YELLOW GUIDELINES IN THE INTERSECTION NOT REMOVED BY THE PAVEMENT REMOVAL SHALL BE GROUND OUT BEFORE PAINTING NEW GUIDELINES.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

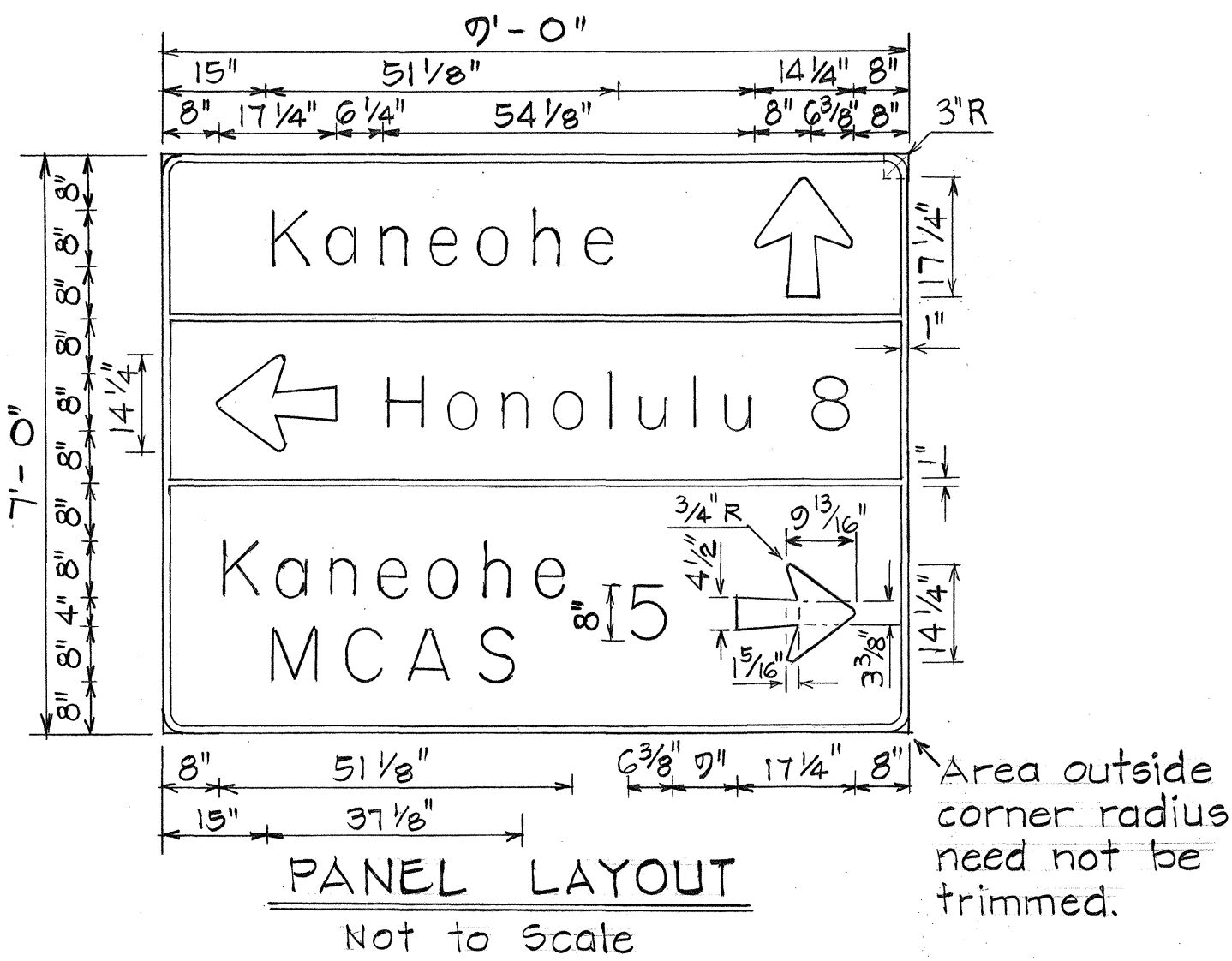
TRAFFIC SIGNS AND PAVEMENT MARKINGS
AT MOKULELE DRIVE INTERSECTION
KAMEHAMEHA HIGHWAY
IMPROVEMENT
(LIKELIKE HIGHWAY TO KOOLAU VIEW DRIVE)
PROJECT NO. F - 083 - 1(10)

SCALE: 1" = 20'
DATE AUG 1978
SHEET No. 12 OF 25 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(10)	1979	123-51	180

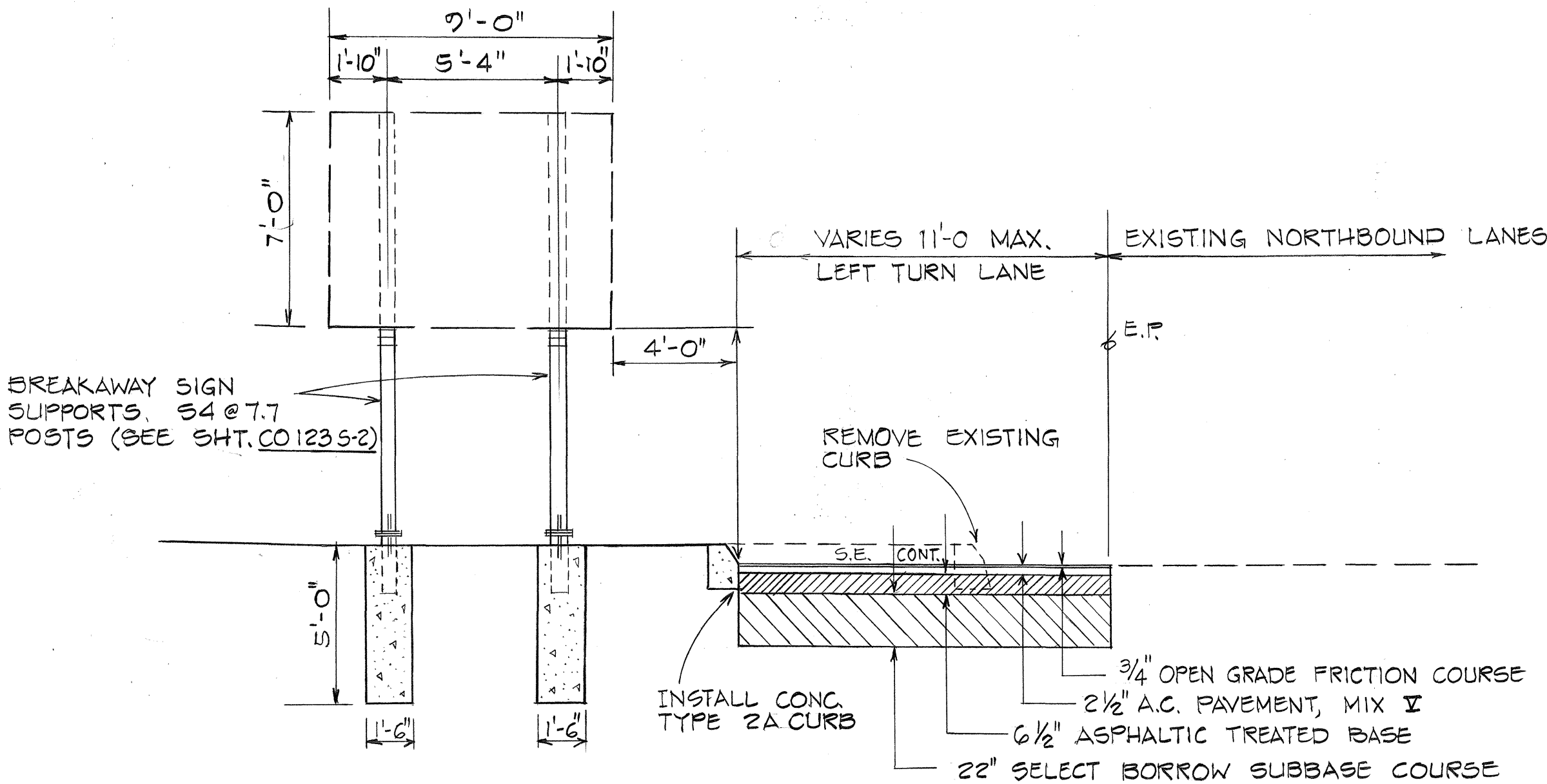
GENERAL NOTES

1. EXACT LOCATION OF TRAFFIC SIGNS SHALL BE APPROVED BY THE ENGINEER.



NOTE:

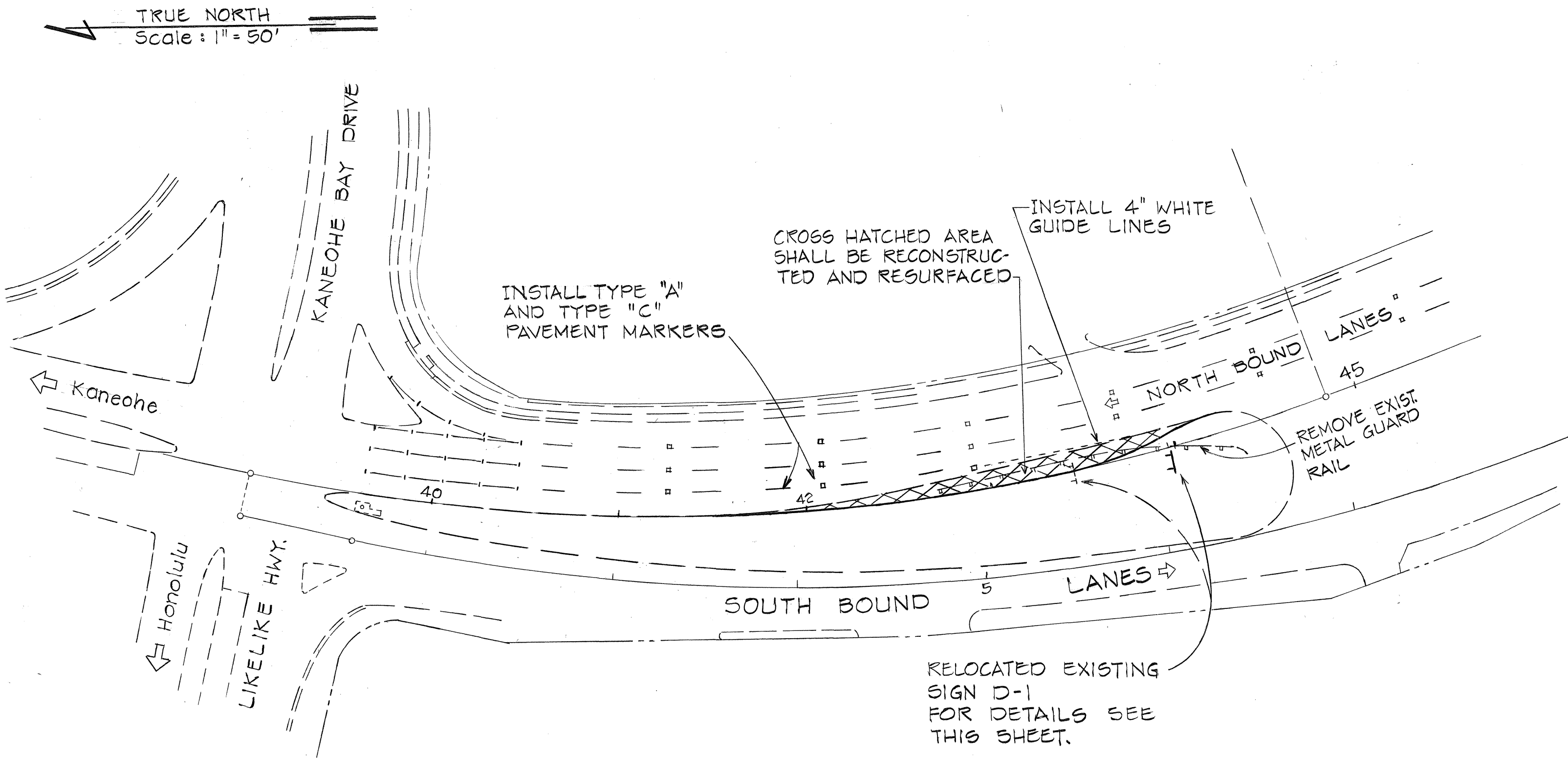
- Sign message shall be lettered in upper case according to "Standard Alphabets for Highway Signs," Bureau of Public Roads, 1952, and lower case according to "Standard Lower Case Alphabets for Highway Signs, Bureau of Public Roads, 1962. Use Series "E" modified letters and numerals unless otherwise noted.
- Remove existing letters, symbols and borders and replace background with green reflective sheeting



FRAME LAYOUT SIGN D-1
N.B. @ STA. 44+00±
SCALE: 1/4" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

RELOCATION OF SIGN D-1
AND EXTENDING LEFT TURN LANE
KAMEHAMEHA HIGHWAY IMPROVEMENT
(LIKELIKE HIGHWAY TO KOOLAU VIEW DRIVE)
PROJ. NO. F-083-1(10)
SCALE: AS SHOWN DATE: AUG. 1979
SHEET NO. OF SHEETS



PLAN
Scale: 1" = 50'-0"

ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(10)	1978	124	160

NOTE: ALL INSTALLED SIGNS SHALL BE REFLECTORIZED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, 1971 AND ANY AMENDMENTS OR REVISIONS THERE OF.

SUMMARY OF REGULATORY AND WARNING REFLECTOR MARKERS, ROUTE MARKERS & MISCELLANEOUS SIGNS

TYPE	DESCRIPTION	QUANTITY	
		W/ POST	W/O POST
R1-1	STOP	10	
R1-2	YIELD	2	
R2-1(35)	SPEED LIMIT 35	12	
R3-2	NO LEFT TURN	1	1
R3-4	NO U TURN	3	1
R4-8	KEEP LEFT		2
R6-1(L)	ONE WAY		1
R6-1(R)	ONE WAY	10	3
R7-1	NO PARKING ANY TIME	45	
R16-6	U TURN AHEAD	3	
R16-7	U TURN OK	3	
R17-1	ON LEFT ARROW ONLY		2
R18-1	USE SIDEWALK	3	2
W2-1	+	4	
W3-3	SIGNAL AHEAD	2	
W12-1	↙		1
RM-3	REFLECTOR MARKER	1	
RM-9	REFLECTOR MARKER	1	
M1-6(83)	ROUTE MARKER	1	
S1-1	⌘ ⌘ SCHOOL ZONE	2	

SUMMARY OF CONSTRUCTION PHASING SIGNS

TYPE	DESCRIPTION	PHASE				
		I	II	III	IV	V
R2-1(25)	25 MPH	4 EA	3 EA	2 EA	6 EA	7 EA
CW20-1A	ROAD CONSTRUCTION 1500 FT	1	1	2		
CW20-1B	ROAD CONSTRUCTION 1000 FT	1	1	2		
CW20-1C	ROAD CONSTRUCTION 500 FT	1	1	2		
CW20-1D	ROAD CONSTRUCTION AHEAD	3	3	3	1	1
CW20-5A(L)	LEFT LANE CLOSED 1500 FT	1		1		
CW20-5B(L)	LEFT LANE CLOSED 1000 FT	1		1	1	
CW20-5D(L)	LEFT LANE CLOSED AHEAD				1	
CW20-5A(R)	RIGHT LANE CLOSED 1500 FT	1	1			
CW20-5B(R)	RIGHT LANE CLOSED 1000 FT	1	1			
CW20-5(R)	RIGHT LANE CLOSED AHEAD					1
CW23-3(L)	USE LEFT LANE		1	1		
CG20-2	END CONSTRUCTION	1	1	1	1	1
W4-2(L)	↙	1	1		1	
W4-2(R)	↘	1	1			1
W12-1	↙	1	1			

NOTE: THE CONSTRUCTION PHASING SIGNS WILL BE PAID UNDER ITEM NO. 104.0400.

SUMMARY OF PAVEMENT STRIPING, SYMBOLS & MARKERS

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
629.1010	PAVEMENT STRIPING	LF	13,000
629.1020	CROSS WALK MARKING	LN	36
629.1030	PAVEMENT ARROWS	EA	18
629.2010	TYPE A PAVEMENT MARKERS H	EA	575
629.2030	TYPE C PAVEMENT MARKERS	EA	145
629.2070	TYPE H PAVEMENT MARKERS	EA	135

SUMMARY OF RELOCATED SIGNS, MARKERS & POSTS

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
632.0100	REFLECTOR MARKERS	EA	7
632.7000	STREET NAME SIGNS	EA	2

SUMMARY OF BIKE ROUTE SIGNS & PAVEMENT ADHESIVES

TYPE	DESCRIPTION	QUANTITY	
		W/ POST	W/O POST
D11-1	BIKE ROUTE	5	2
D11-3	BEGIN		2
D11-4	END		2
D11-6	↔		3
D11-7	↑		4
	BIKE ROUTE ADHESIVES	QUANTITY	
	BIKE ROUTE	21	
	↑	30	

10/20/78 Changed Quantities & Sign Designation. Added Note

DATE REVISION

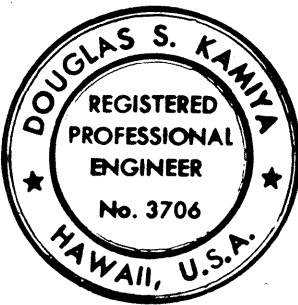
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

SUMMARY OF TRAFFIC SIGNS

KAMEHAMEHA HIGHWAY
IMPROVEMENT
(LIKE LIKE HIGHWAY TO KOOLAU VIEW DRIVE)
PROJECT NO. F-083-1(10)

SCALE DATE AUG 1978

SHEET No. 13 OF 25 SHEETS



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

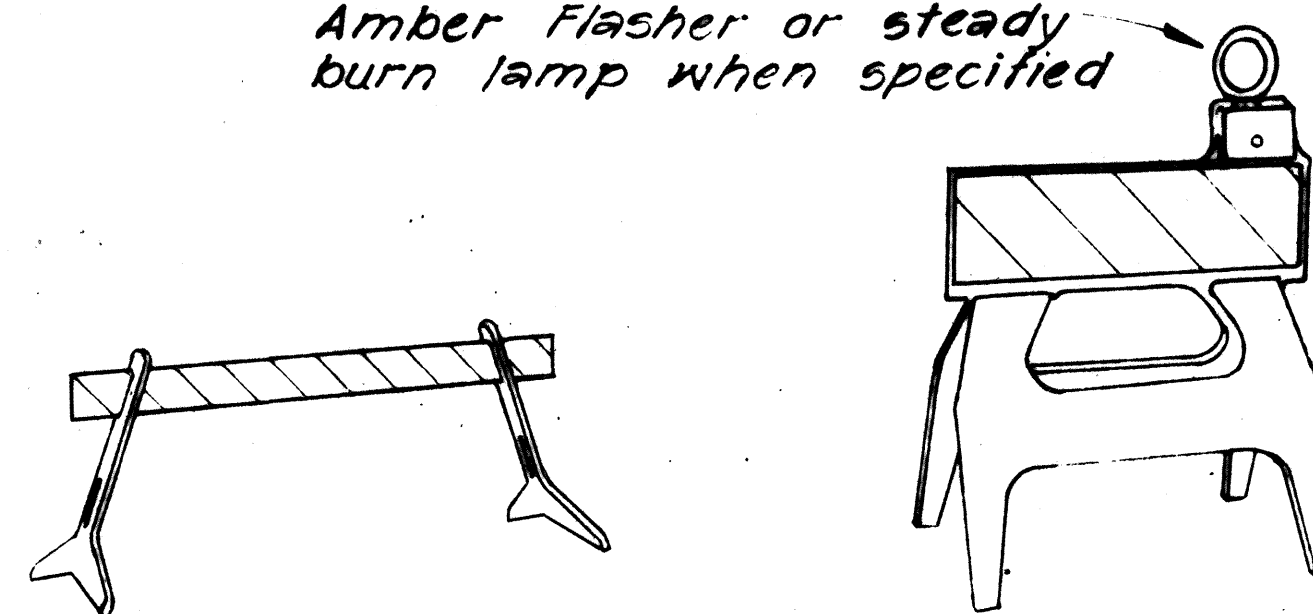
Douglas S. Kamia

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(10)	1978	125	160

GENERAL NOTES

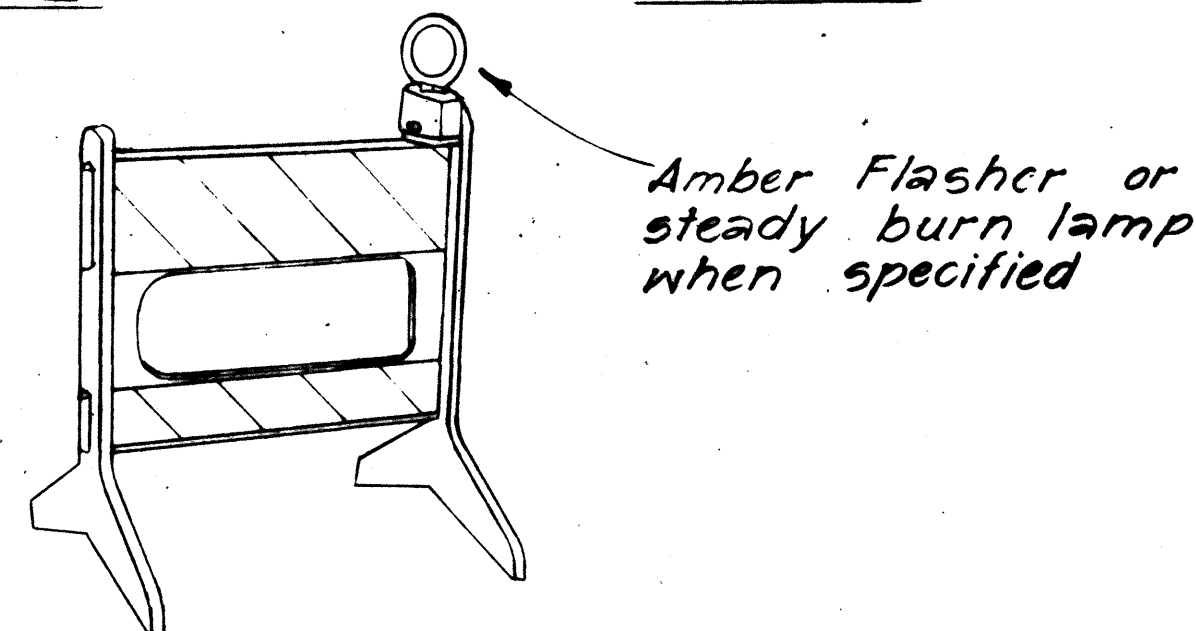
- The Contractor shall construct, install and maintain the barricades at the locations shown on the Plans.
- The barricades shall be left in place or relocated upon completion of the project as ordered by the Engineer and are to become State property, unless otherwise specified.
- The orange and white stripes shall slant downward toward the side on which traffic is to pass and shall be reflectorized with reflective sheeting.
- Both faces of the barricade rails shall be striped. See Striping Detail Arrangement.
- Contractor may submit alternate designs for approval.
- Barricade details shall conform to the "Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, by the Federal Highway Administration and as amended.
- If wooden rails are used, 26 ga. galv. steel sheet shall be first tacked on to the rails and then overlaid with reflective sheeting.

Amber Flasher or steady burn lamp when specified



TYPE I

TYPE I

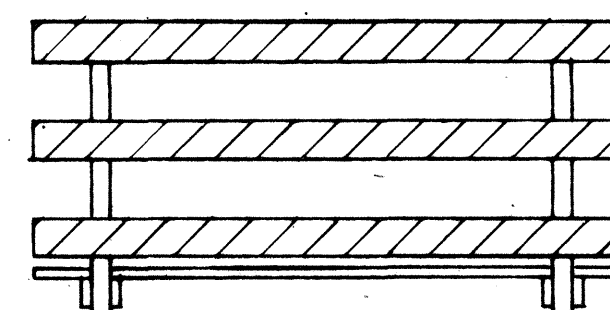


TYPE II

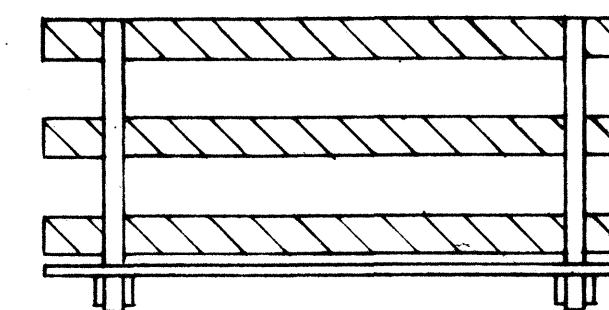
PLASTIC MOLDED BARRICADE OPTIONS *

Not to Scale

* Shop Drawings must be submitted for approval.



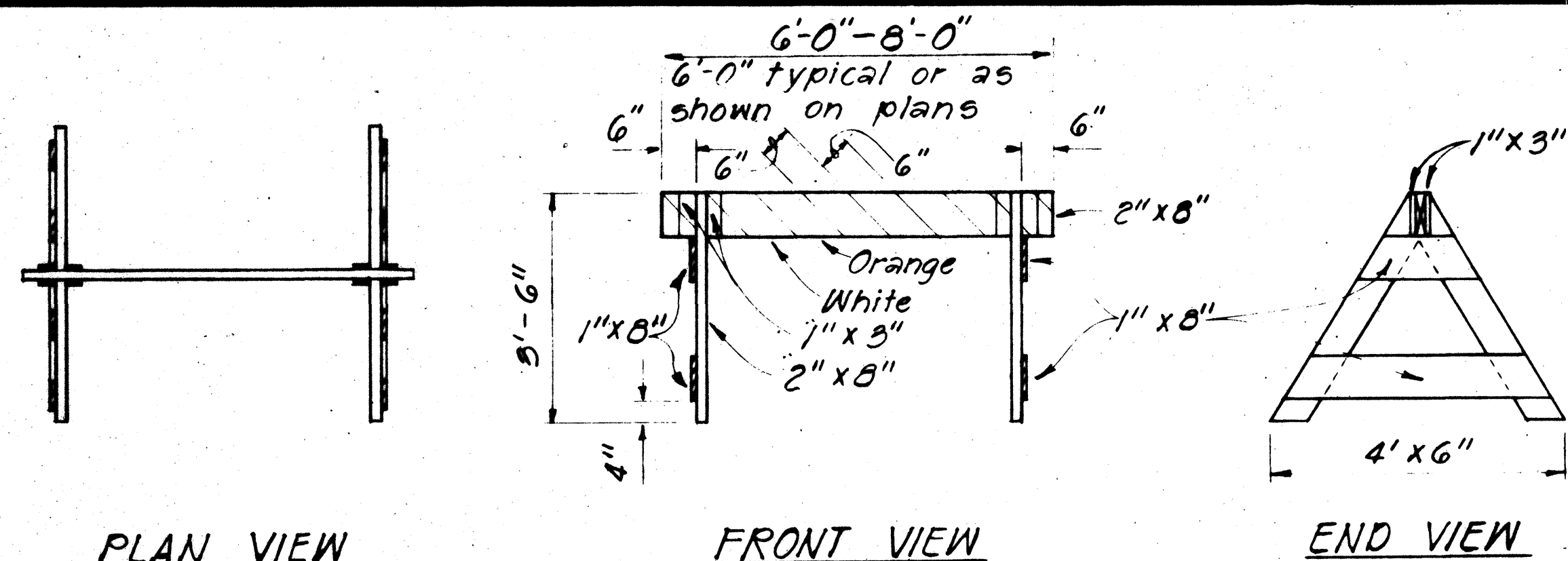
FRONT FACE



BACK FACE

BARRICADE STRIPING DETAILS

Not to Scale



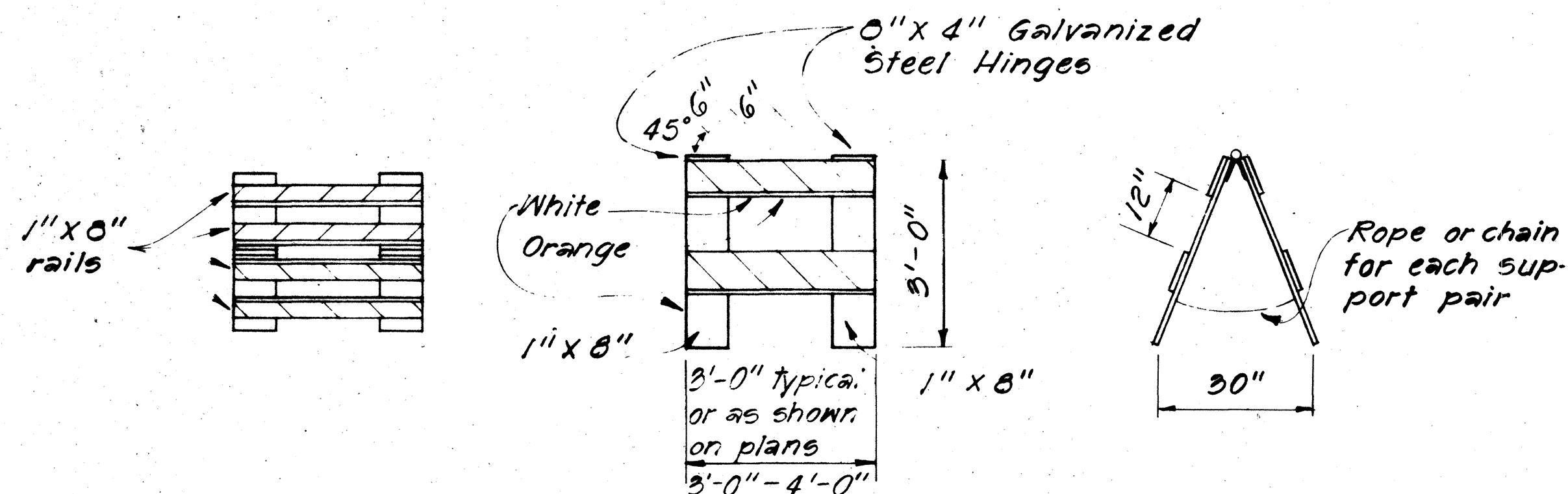
PLAN VIEW

FRONT VIEW

END VIEW

TYPE I BARRICADE

Scale: 1/2" = 1'-0"



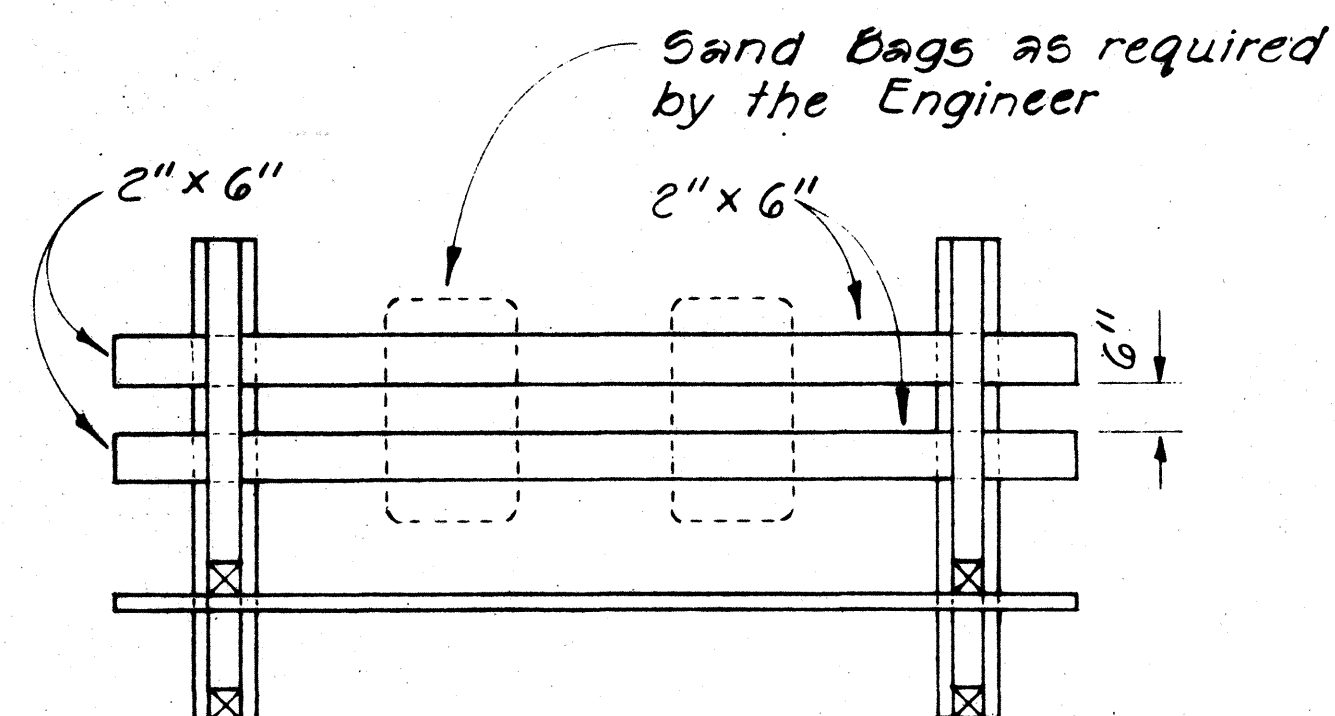
PLAN VIEW

FRONT VIEW

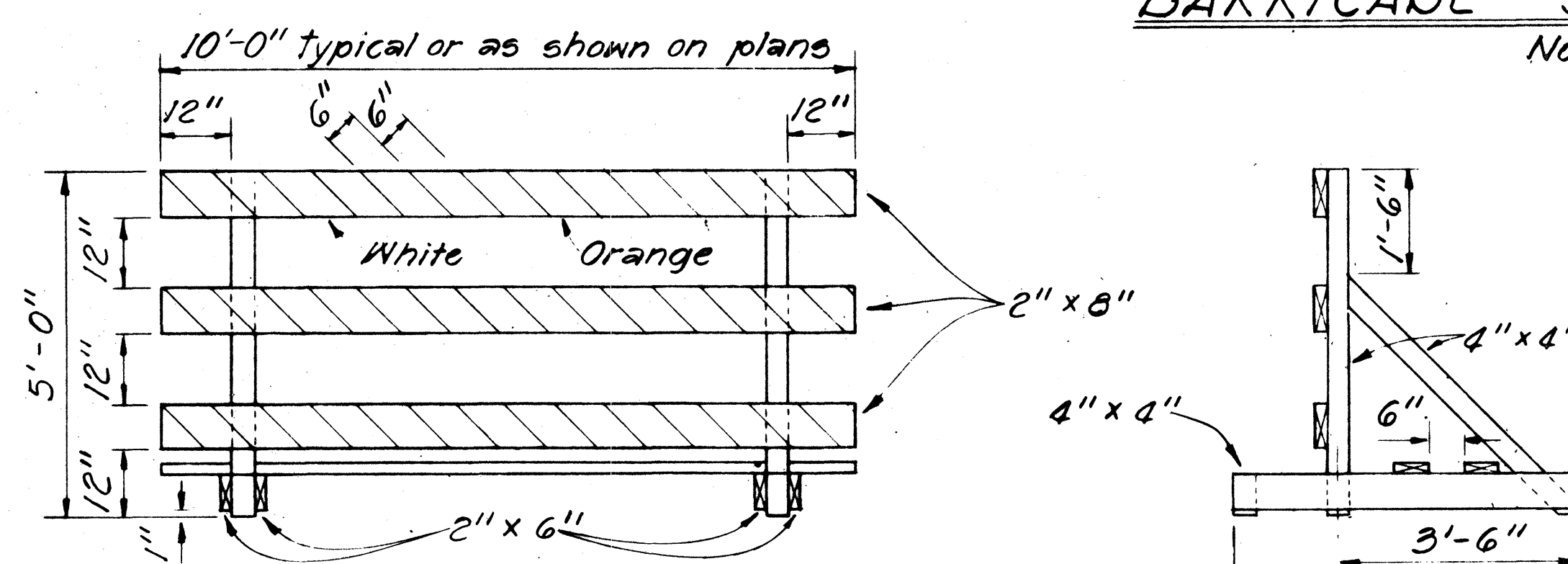
END VIEW

TYPE II BARRICADE

Scale: 1/2" = 1'-0"



PLAN VIEW



FRONT VIEW

END VIEW

TYPE III BARRICADE

Scale: 1/2" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

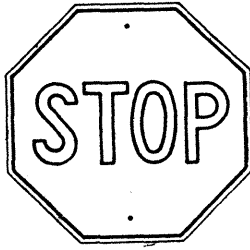
TYPICAL DETAILS

BARRICADES

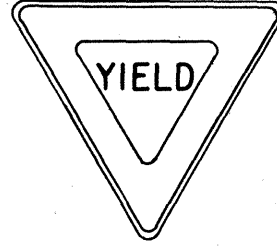
SCALE: As Shown

SHEET No. 14 OF 25 SHEETS

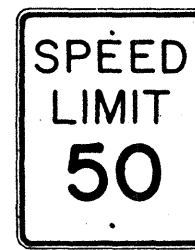
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(10)	1978	126	160



R1-1 30"x 30"
R1-1-A 36"x 36"
4-WAY
R1-3 12"x 6"
R1-3-A 18"x 9"



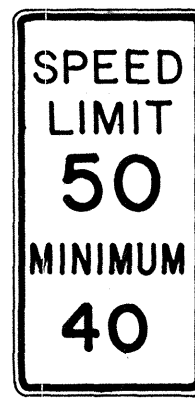
R1-2 36"x36"x36"
R1-2-A 48"x48"x48"



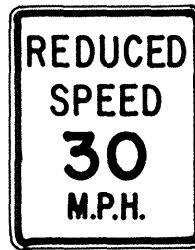
R2-1(50) 24"x 30"
R2-1(50)-A 48"x 60"



R2-2(40) 24"x 24"
R2-2(40)-A 48"x 48"



R2-4a(50/40) 24"x 48"
R2-4a(50/40)-A 48"x 96"



R2-5b(30) 24"x 30"
R2-5b(30)-A 48"x 60"



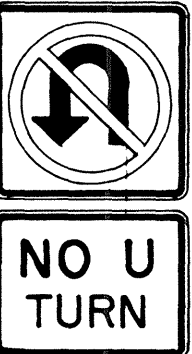
R3-1 24"x24"
24"x18"
R3-1-A 48"x48"
48"x36"



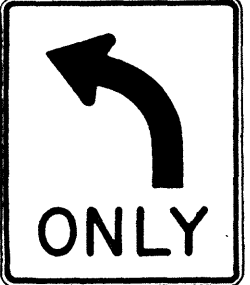
R3-2 24"x24"
24"x18"
R3-2-A 48"x48"
48"x36"



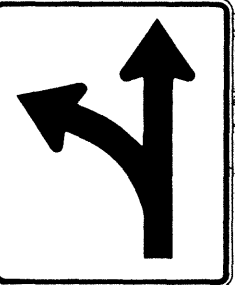
R3-3 24"x 24"
R3-3-A 48" x 48"



R3-4 24"x 24"
24"x18"
R3-4-A 48"x48"
48"x36"



R3-5(L) 30"x36"
R3-5(L)-A 48"x60"



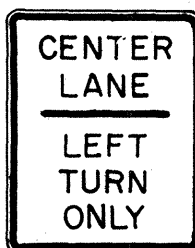
R3-6(L) 30"x36"
R3-6(L)-A 48"x60"



R3-7(R) 30"x30"
R3-7(R)-A 48"x48"



R3-8(L) 30"x30"
R3-8(L)-A 36"x36"
R3-8(L)-B 48"x48"



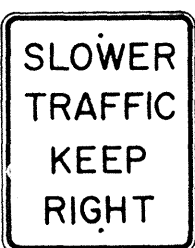
R3-9 24"x 30"



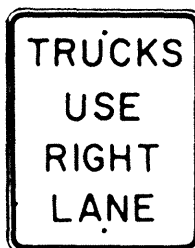
R4-1 24"x 30"



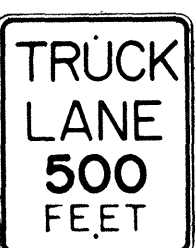
R4-2 24"x 30"



R4-3 24"x 30"
R4-3-A 48"x 60"



R4-5 24"x 30"



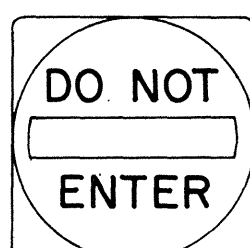
R4-6(500) 24"x 30"



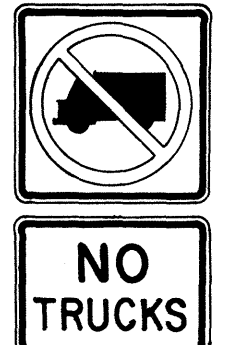
R4-7 24"x30"
24"x18"



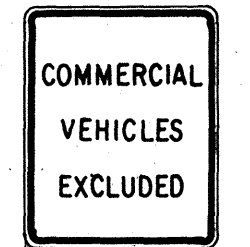
R4-8 24"x30"
24"x18"



R5-1 30"x 30"
R5-1-A 48"x 48"



R5-2 24"x 24"
24"x 18"



R5-4 24"x 30"



R5-6 24"x24"
24"x18"



R5-9 36"x 24"



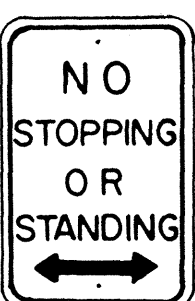
R6-1 (R) 36"x12"



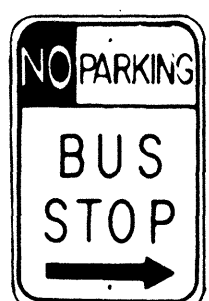
R6-2(R) 18"x24"



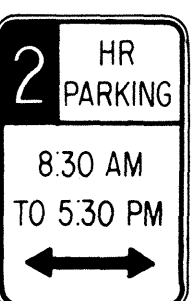
R7-1 12"x 18"
R7-1-A 24"x 30"



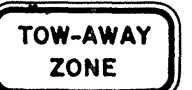
R7-4 12"x 18"
R7-4-A 24"x 30"



R7-107(R) 12"x 18"



R7-108 12"x 18"



R7-201 12"x 6"
R7-201-A 24"x12"



R8-1 24"x 30"



R8-2 24"x 30"



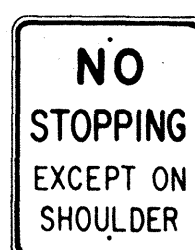
R8-3 24"x 30"



R8-4 30"x 24"
R8-4-A 48"x 36"



R8-5 24"x 30"



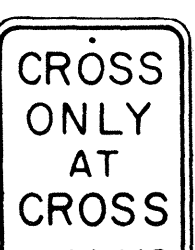
R8-6 24"x 30"



R8-7 30"x 24"
R8-7-A 48"x 36"



R9-1 18"x 24"



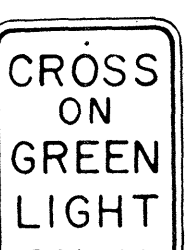
R9-2 12"x 18"



R9-3 12"x 18"



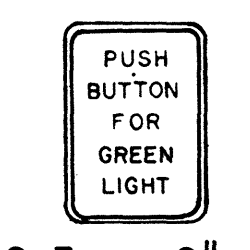
R9-4 18"x 24"



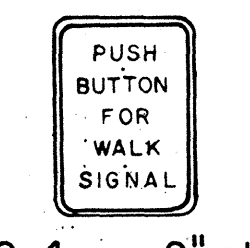
R10-1 12"x 18"



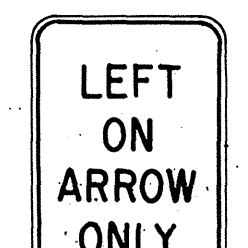
R10-2 12"x 18"



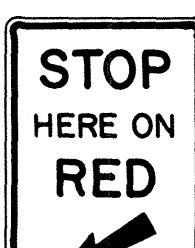
R10-3 9"x 12"



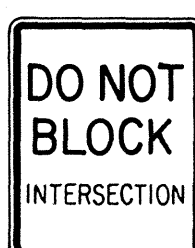
R10-4 9"x 12"



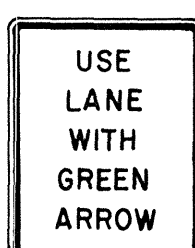
R10-5 24"x 30"



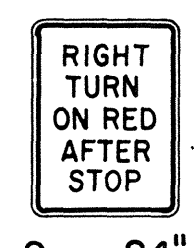
R10-6 24"x 36"



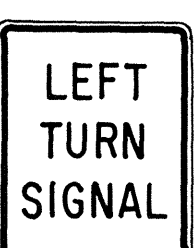
R10-7 24"x 30"



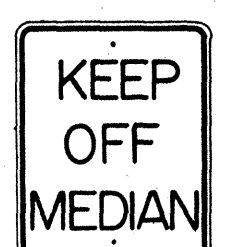
R10-8 24"x 30"



R10-9 24"x 30"



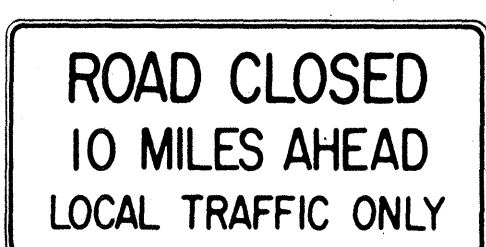
R10-10 24"x 30"



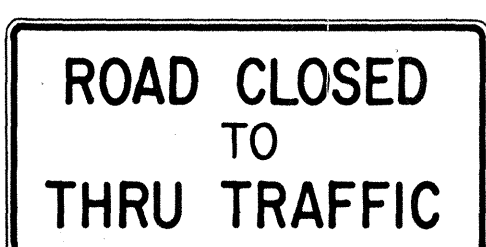
R11-1 24"x 30"



R11-2 48"x 30"



R11-3(10) 60"x 30"



R11-4 60"x 30"



R12-1(10) 24"x 30"

GENERAL NOTES

- Sign details shall conform to the FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, and "Standard Highway Signs," 1972, and as amended.
- All regulatory signs shall be reflectorized unless otherwise specified.
- All regulatory signs shall have 3/8" bolt holes drilled at appropriate locations.
- Numerals in () indicates numerals to be inserted for sign message. (R) or (L) indicates right or left.

APPROVAL RECOMMENDED:
Eishi Tanaka 3/17/78
TRAFFIC ENGINEER DATE

APPROVED:
Robert Roberts 3-20-78
ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 101 Approved 12-30-69	H.T.	3/20/72
2	Revised General Note 1.	H.T.	10/14/74

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAILS
REGULATORY SIGNS

NOT TO SCALE

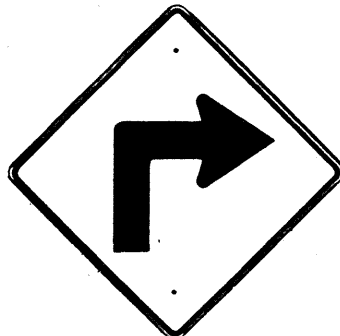
SHEET No. 15 OF 25 SHEETS DT 101

DATE	_____
DESIGNED BY	_____
TRACED BY	_____
NOTED BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
No.	_____

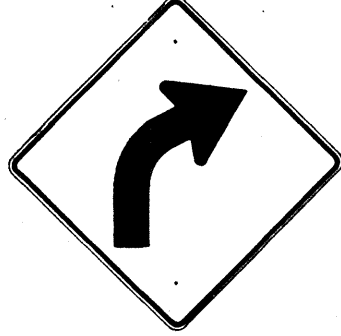
IMPERIAL™ LA 3207
TRAFFIC CLOTH

126

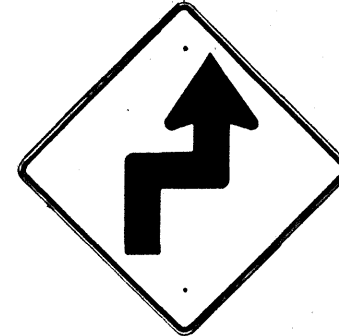
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII *	HAW.	F-083-1(10)	1978	127	160



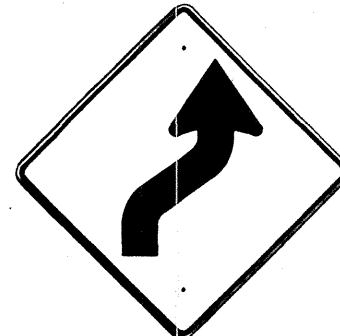
W1-1(R) 30"x 30"
W1-1(R)-A 48"x 48"



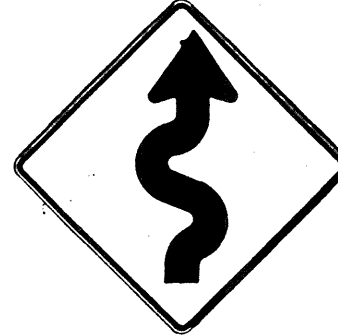
W1-2(R) 30"x 30"
W1-2(R)-A 48"x 48"



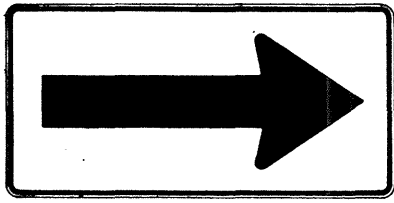
W1-3(R) 30"x 30"
W1-3(R)-A 48"x 48"



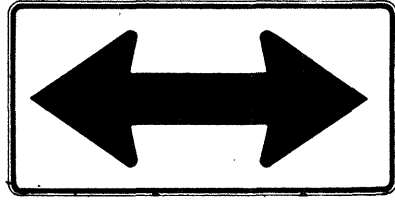
W1-4(R) 30"x 30"
W1-4(R)-A 48"x 48"



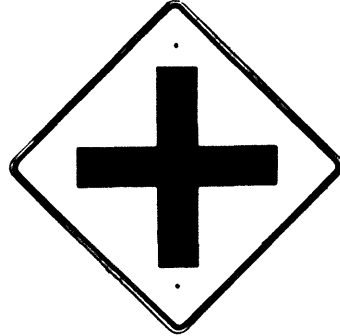
W1-5(R) 30"x 30"
W1-5(R)-A 48"x 48"



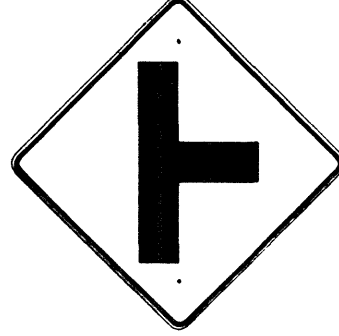
W1-6 48"x 24"



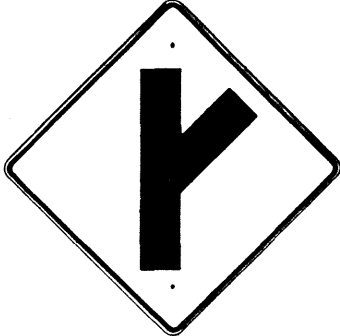
W1-7 48"x 24"



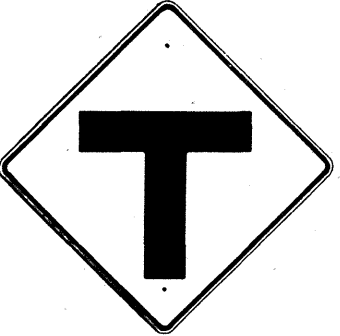
W2-1 30"x 30"
W2-1-A 48"x 48"



W2-2 30"x 30"
W2-2-A 48"x 48"



W2-3(R) 30"x 30"
W2-3(R)-A 48"x 48"



W2-4 30"x 30"
W2-4-A 48"x 48"



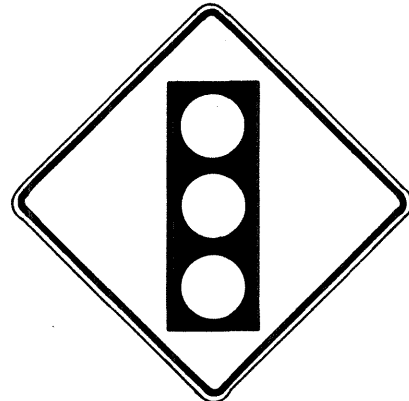
W2-5 30"x 30"
W2-5-A 48"x 48"



W3-1 30"x 30"
W3-1-A 36"x 36"



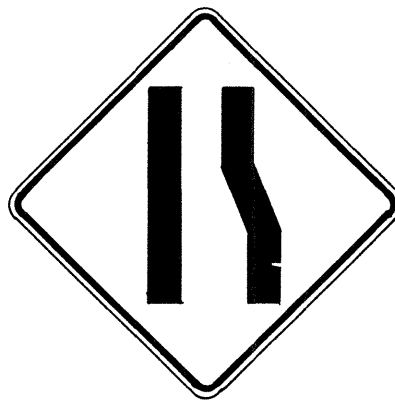
W3-2 30"x 30"
W3-2-A 36"x 36"



W3-3 36"x 36"
24"x 18"



W4-1(R) 30"x 30"
24"x 18"
W4-1(R)-A 48"x 48"
24"x 18"



W4-2(R) 36"x 36"
W4-2(R)-A 48"x 48"



W5-1 36"x 36"



W5-2 30"x 30"
W5-2-A 36"x 36"



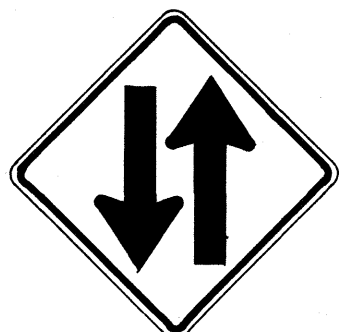
W5-3 36"x 36"



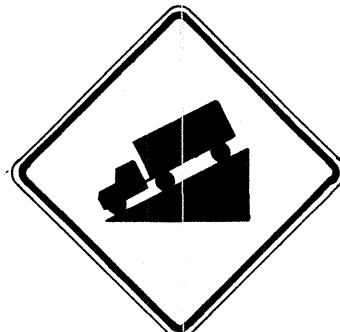
W6-1 36"x 36"
24"x 18"



W6-2 36"x 36"
24"x 18"



W6-3 30"x 30"
24"x 18"
W6-3-A 36"x 36"
24"x 18"
W6-3-B 48"x 48"
24"x 18"



W7-1 30"x 30"
24"x 18"
W7-1-A 36"x 36"
24"x 18"



W7-2 24"x 18"



W8-1 30"x 30"
W8-1-A 36"x 36"



W8-2 30"x 30"
W8-2-A 36"x 36"



W8-3 30"x 30"
W8-3-A 36"x 36"



W8-4 30"x 30"
W8-4-A 36"x 36"



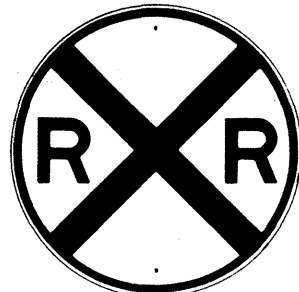
W8-5 30"x 30"
24"x 18"
W8-5-A 36"x 36"
24"x 18"



W9-1(R) 30"x 30"
W9-1(R)-A 36"x 36"
W9-1(R)-B 48"x 48"



W9-2(L) 36"x 36"
W9-2(L)-A 48"x 48"



W10-1 36" Diameter



W11-1 30"x 30"
24"x 18"
W11-1-A 36"x 36"
24"x 18"



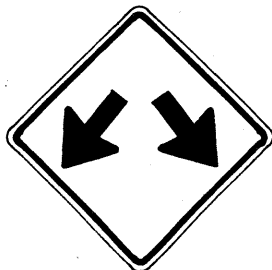
W11-2 30"x 30"
24"x 18"
W11-2-A 36"x 36"
24"x 18"



W11-4 30"x 30"
24"x 18"
W11-4-A 36"x 36"
24"x 18"



W11-5 30"x 30"
24"x 18"
W11-5-A 36"x 36"
24"x 18"



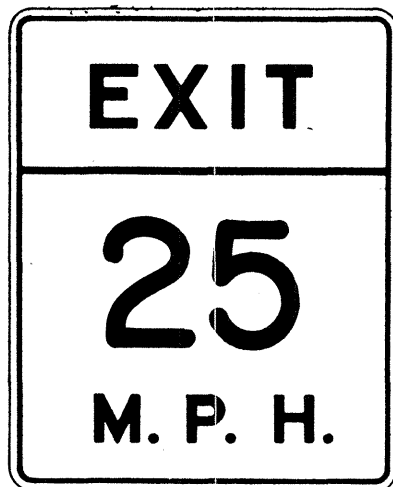
W12-1 24"x 24"
W12-1-A 36"x 36"
W12-1-B 48"x 48"



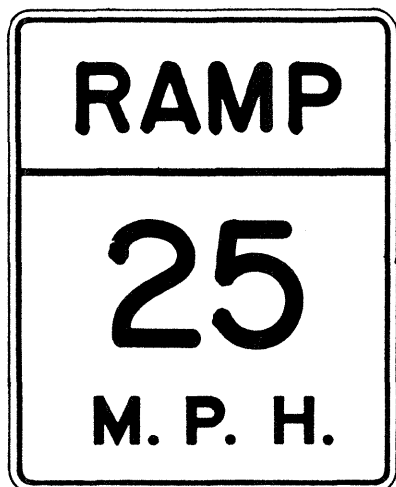
W12-2 (12'-6") 36"x 36"
24"x 18"



W13-1(25) 18"x 18"
W13-1(25)-A 24"x 24"



W13-2(25) 48"x 60"



W13-3(25) 48"x 60"



W14-1 30"x 30"



W14-3 36"x 48" x 48"

GENERAL NOTES

- Sign details shall conform to the FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, and "Standard Highway Signs," 1972, and as amended.
- All warning signs shall be reflectorized unless otherwise specified.
- All warning signs shall have 3/8" bolt holes drilled at appropriate locations.
- Numerals in () indicates numerals to be inserted for sign message. (R) or (L) indicates right or left.
- Signs prefixed with "CW" on the plans shall indicate orange and black construction signs, and shall be reflectorized.

APPROVAL RECOMMENDED:

E. Tanaka 3/17/72
TRAFFIC ENGINEER DATE

APPROVED:

W. J. ... 3-20-72
ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 102 Approved 12-30-69	H.T.	2/20/72
2	Revised General Note 1	H.T.	10/16/74
3	Revised General Note 5	M.H.	9-16-75
4	Revised General Note 5	H.T.	9-14-76

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAILS
WARNING SIGNS

NOT TO SCALE

SHEET No. 16 OF 25 SHEETS DT 102

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
TRACED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
NO.	_____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(10)	1978	128	160

General Notes

- Sign details shall conform to the latest editions of the following FHWA publications:
 - "Standard Alphabets for Highway Signs," and as amended.
 - "Standard Highway Signs," and as amended.
 - "Manual on Uniform Traffic Control Devices for Streets and Highways," and as amended.
- All signs shall be reflectorized with reflective sheeting, unless otherwise specified.
- All signs shall have $\frac{3}{8}$ " bolt holes drilled at appropriate locations.
- Numerals in () indicate numerals to be inserted for sign message. (R) or (L) indicates right or left.
- Signs prefixed with "CW" on the plans shall indicate orange and black construction signs, and shall be reflectorized with reflective sheeting.

ALL WAY
R1-4 18" x 6"

REDUCED SPEED
35
AHEAD
R2-5d(35) 24" x 30"
R2-5d(35)-A 48" x 60"

SPEED LIMIT ENFORCED BY VASCAR
4" Series D
4" Series C
3" Series D
5" Series C
R2-10 24" x 30"

CENTER LANE ONLY
R3-9b 24" x 36"

BUS STOP
R7-107(R) 12" x 24"

RESERVED PARKING
R7-8 12" x 18"
R7-8-A 24" x 30"

ANY TIME
4" Series C
1 1/2"
R8-3a 24" x 24"
24" x 18"
R8-3a-A 48" x 48"

NO PED XING
R9-3a 18" x 18"
18" x 12"
R9-3a-A 24" x 24"
24" x 18"

USE CROSSWALK
R9-3b(R) 18" x 12"

USE CROSSWALK
R9-3b(L) 18" x 12"

NO TURN ON RED
R10-11a 24" x 30"

TURN RIGHT ANY TIME WITH CAUTION
4" Series C
R16-1 24" x 30"

NO LEFT TURN ON RED
4" Series D
3" Series D
2" Series D
3" Series D
R16-3 18" x 24"

NO RIGHT TURN ON RED
R16-4 18" x 24"

UNLICENSED VEHICLES BICYCLES, CYCLES UNDER 5 H P, PEDESTRIANS KEEP OUT FREEWAY
3" Series C
4" Series E
U TURN AHEAD
8" Series F
5" Series D
R16-5 36" x 42"
R16-6 24" x 30"

U TURN OK
8" Series F
5" Series D
R16-7 24" x 30"

MOTOR-DRIVEN CYCLES PROHIBITED
4" Series B
R5-8 30" x 24"

W17-1(L) 60" x 60"

STOP AHEAD
W3-1a 36" x 36"
24 x 18"
W3-1a-A 48" x 48"
24" x 18"

YIELD AHEAD
W3-2a 36" x 36"
24" x 18"
W3-2a-A 48" x 48"
24" x 18"

STOP AHEAD WHEN FLASHING
6" Series C
W3-4 48" x 48"

TRUCK CROSSING
W8-6 30" x 30"
W8-6-A 36" x 36"

THRU TRAFFIC MERGE LEFT
6" Series E
W9-3(L) 48" x 48"

EQUESTRIAN XING
W11-7 36" x 36"
24" x 18"
W11-7-A 48" x 48"
24" x 18"

FIRE STATION
W11-8 36" x 36"
24" x 18"
W11-8-A 48" x 48"
24" x 18"

W11-9 36" x 36"
W11-9-A 48" x 48"

LIMITED SIGHT DISTANCE
W14-4 36" x 36"
W14-4-A 48" x 48"

DELAYED GREEN
4" Series C
W15-1 24" x 24"

ADVANCE GREEN
W15-2 24" x 24"

END FREEWAY 1/2 MI
8" Series E
CW16-1(1/2) 60" x 60"

RIGHT LANE EXIT ONLY
8" Series E
W18-1 48" x 60"

SI-1 36" x 36"

S2-1 36" x 36"

SCHOOL BUS STOP AHEAD
S3-1 30" x 30"

8:00 AM TO 3:30 PM
S4-1 24" x 10"

WHEN CHILDREN ARE PRESENT

S4-2 24" x 10"

SCHOOL
S4-3 24" x 8"

WHEN FLASHING

S4-4 24" x 10"

7" Series D
SIDEWALK CLOSED
CW23-4 48" x 48"

USE SIDEWALK
4" Series C
R18-1 24" x 18"

APPROVAL RECOMMENDED:
Erich Tanaka 5/2/78
TRAFFIC ENGINEER DATE

APPROVED:
Robert 2. Zaleski 5/3/78
ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE
	Supersedes Sht.DT103 approved 3/20/72	H.T.	5/3/78

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAILS

MISCELLANEOUS SIGNS

NOT TO SCALE DATE: MAY, 1978

SHEET No.17 OF 25 SHEETS DT 103

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(10)	1978	129	160



CW 20-1a 48" x 48"



CW 20-2d 48" x 48"



CW 20-3b 48" x 48"



CW 20-4d 48" x 48"



CW 20-5d(L) 48" x 48"



CW 20-7c 48" x 48"



CW 21-1 30" x 30"



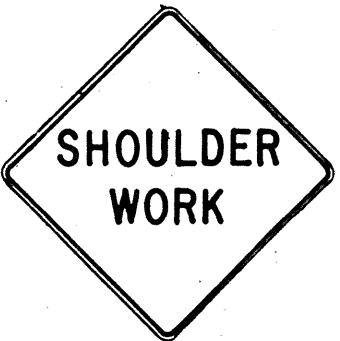
CW 21-2 30" x 30"



CW 21-3 36" x 36"



CW 21-4 36" x 36"



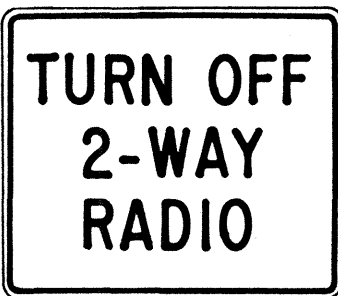
CW 21-5 30" x 30"



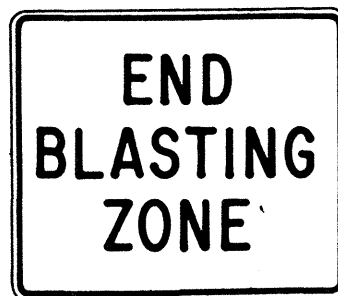
CW 21-6 30" x 30"



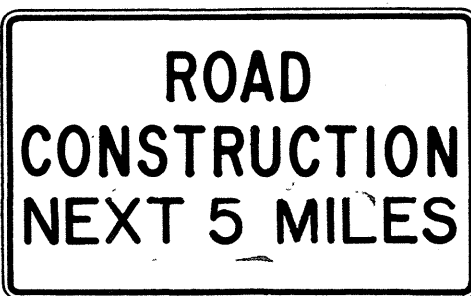
CW 22-1b 48" x 48"



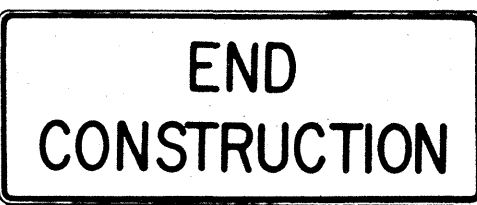
CW 22-2 42" x 36"



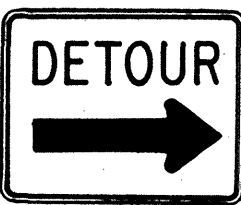
CW 22-3 42" x 36"



CG 20-1(5) 60" x 36"



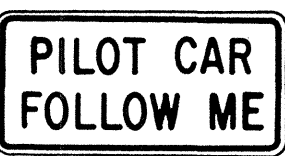
CG 20-2 60" x 24"



CM 4-9(R) 30" x 24"



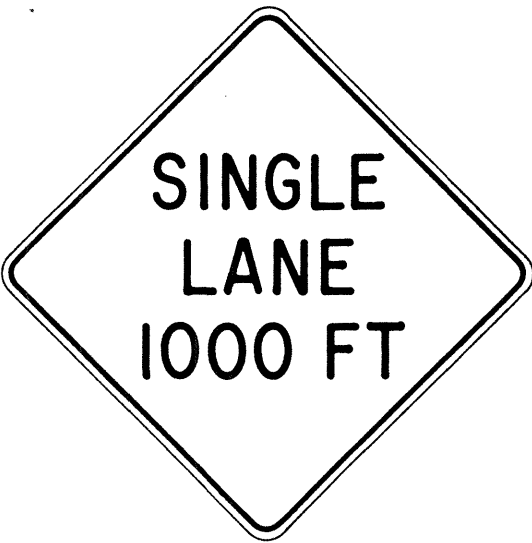
CM 4-10(R) 48" x 18"



CG 20-4 36" x 18"



CW 23-1 36" x 36"



CW 23-2b 48" x 48"



CW 23-3(R) 48" x 48"

GENERAL NOTES

- Sign details shall conform to the FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, and "Standard Highway Signs," 1972, and as amended.
- All construction signs shall be reflectorized.
- All construction signs shall have $\frac{3}{8}$ " bolt holes drilled at appropriate locations.
- Numerals in () indicates numerals to be inserted for sign message. (R) or (L) indicates right or left.
- For "CW" series signs, suffixes a,b,c and d are as follows:
a-1500 FT, b-1000 FT, c-500 FT and d-AHEAD.

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 104 Approved 12-30-69	H.T.	3/23/72
2	Revised General Note 1	H.T.	10/16/74
3	Revised General Note 2	M.H.	9-16-75
4	Revised General Note 2 and sign CG 20-1(5)	H.T.	9-14-76

APPROVAL RECOMMENDED:
Erich Tanaka 3/21/72
TRAFFIC ENGINEER DATE

APPROVED:
Shirley Salsich 3/23/72
ASSISTANT CHIEF, ENGINEERING DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAILS
CONSTRUCTION SIGNS

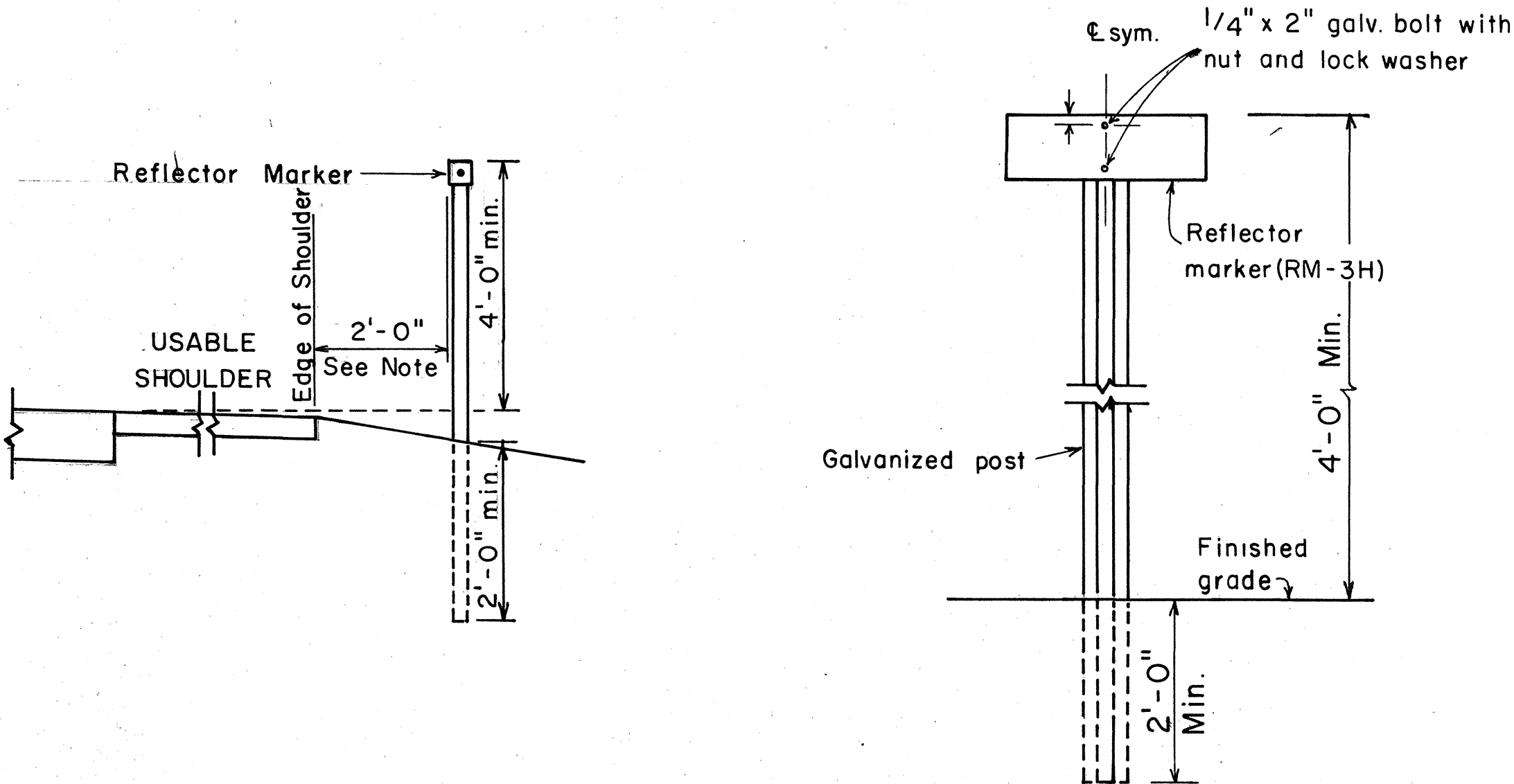
NOT TO SCALE

SHEET No. 18 OF 25 SHEETS DT 104

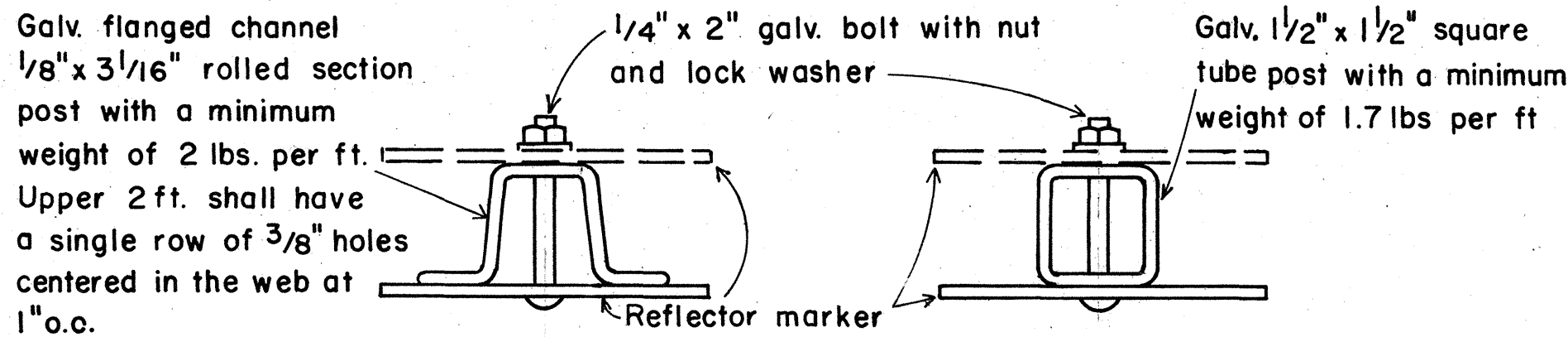
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(10)	1978	130	160

GENERAL NOTES:

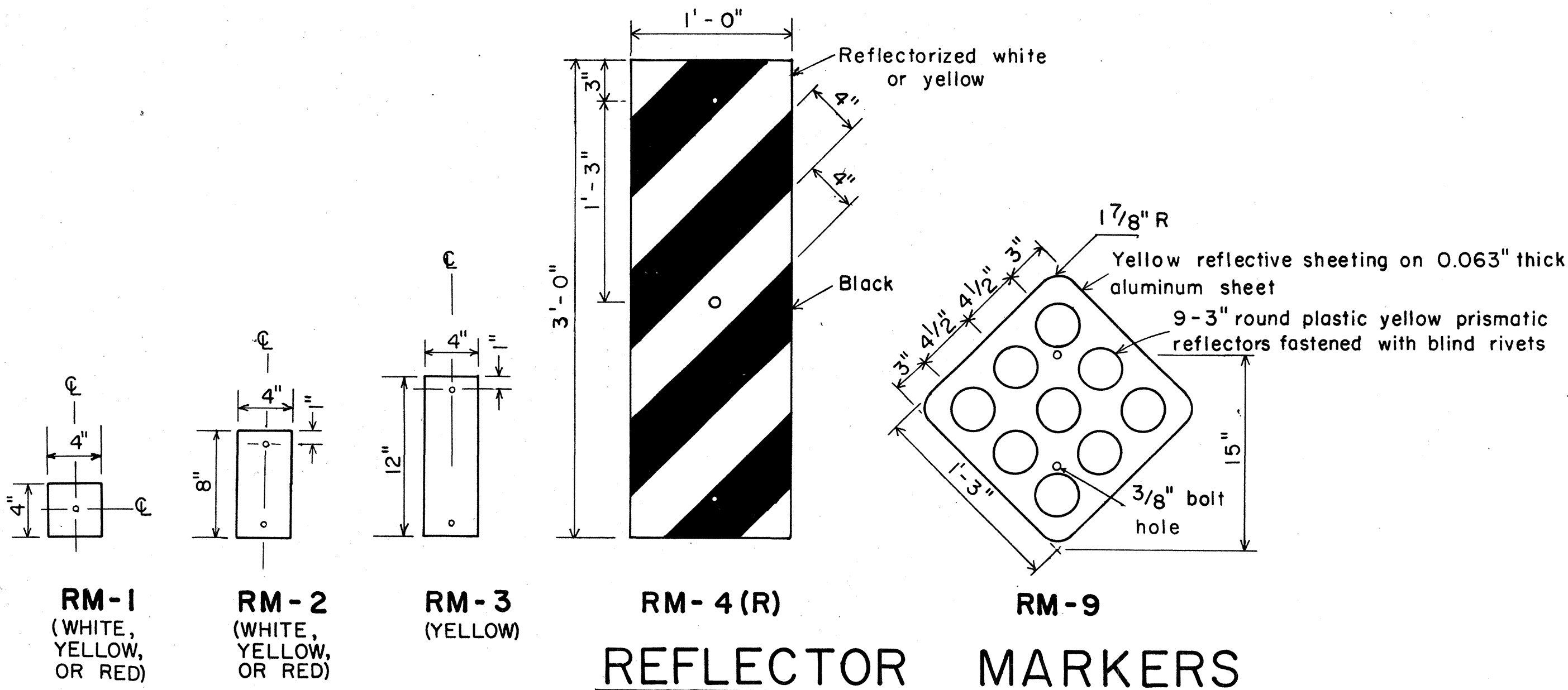
- Clearance markers (RM-3, RM-4) shall be installed with the edge of the marker in line with the inner edge of the obstruction.
- (R) or (L) indicates right or left and shall be as shown on the plans.
- Reflector markers RM-1 and RM-2 shall be:
 - Yellow if placed along the left edge of divided roadways, one-way roadways, and ramps in the direction of travel.
 - White if placed along the right edge of divided roadways, one-way roadways, and ramps in the direction of travel.
- For reflector marker RM-9, reflective sheeting material may be used as an alternate.
- For RM-4, the stripes shall slope downward at an angle of 45° in the direction of traffic.



REFLECTOR MARKER MOUNTING DETAIL



TYPICAL SECTION OF ROAD DELINEATOR



APPROVAL RECOMMENDED:
Erich Tanaka 11/1/77
 TRAFFIC ENGINEER DATE
 APPROVED:
Herbert A. Sakai 11/15/77
 ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAILS
MISCELLANEOUS REFLECTOR MARKERS

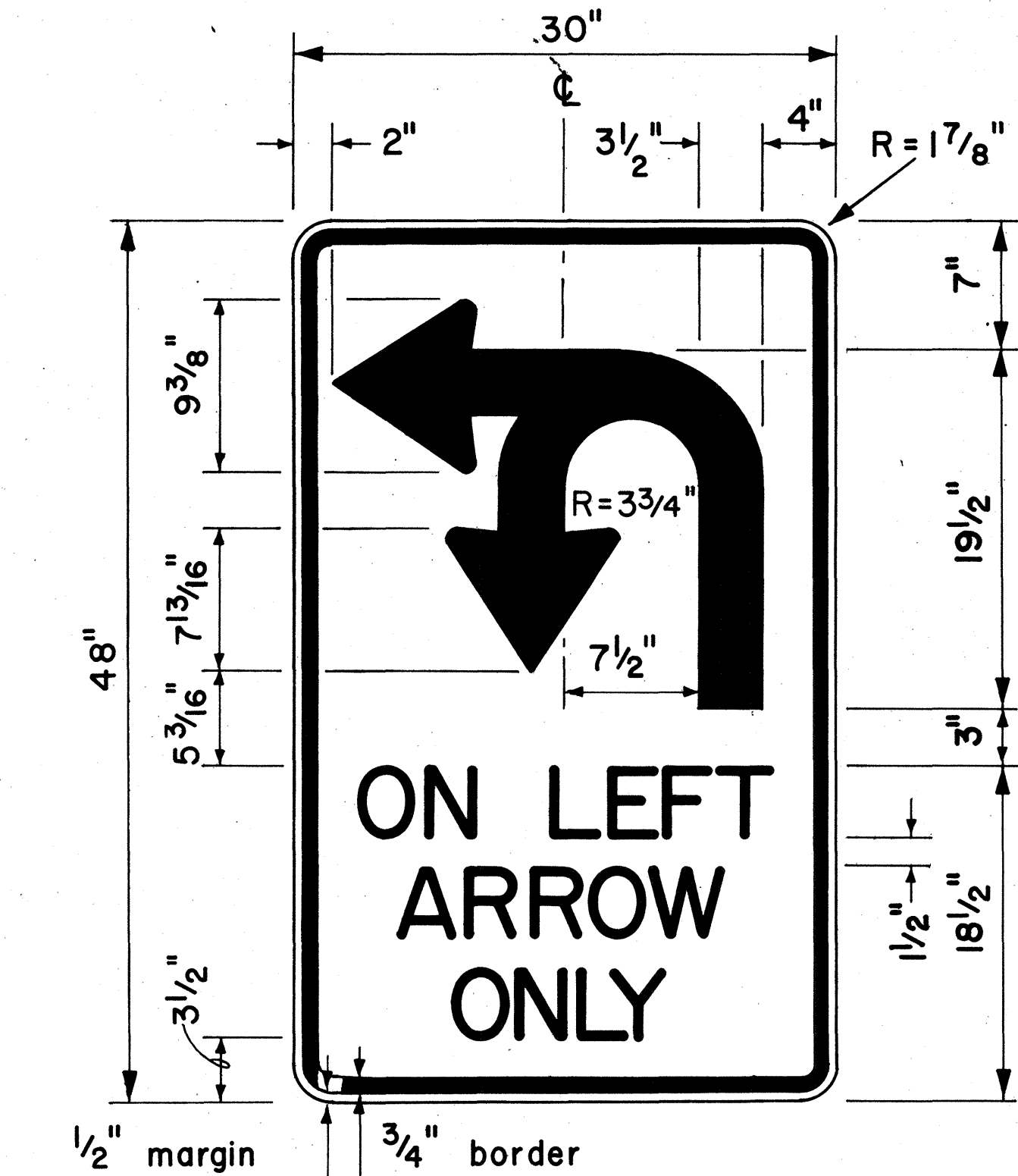
Not to scale
June, 1977
SHEET No. 19 OF 25 SHEETS DT 110

DATE	
DESIGNED BY	
TRACED BY	
NOTE BOOK	
CHECKED BY	

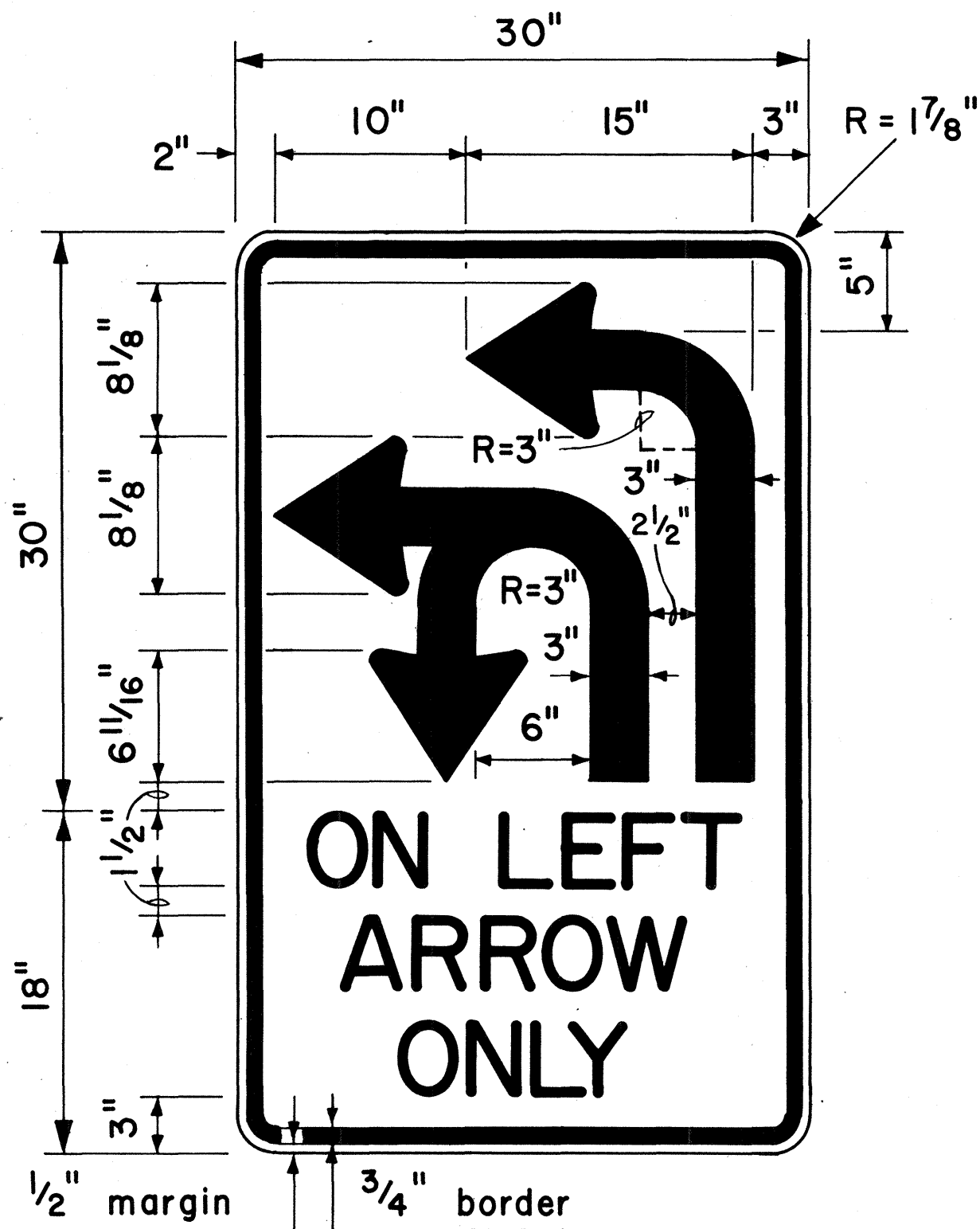
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(10)	1978	131	160

GENERAL NOTES

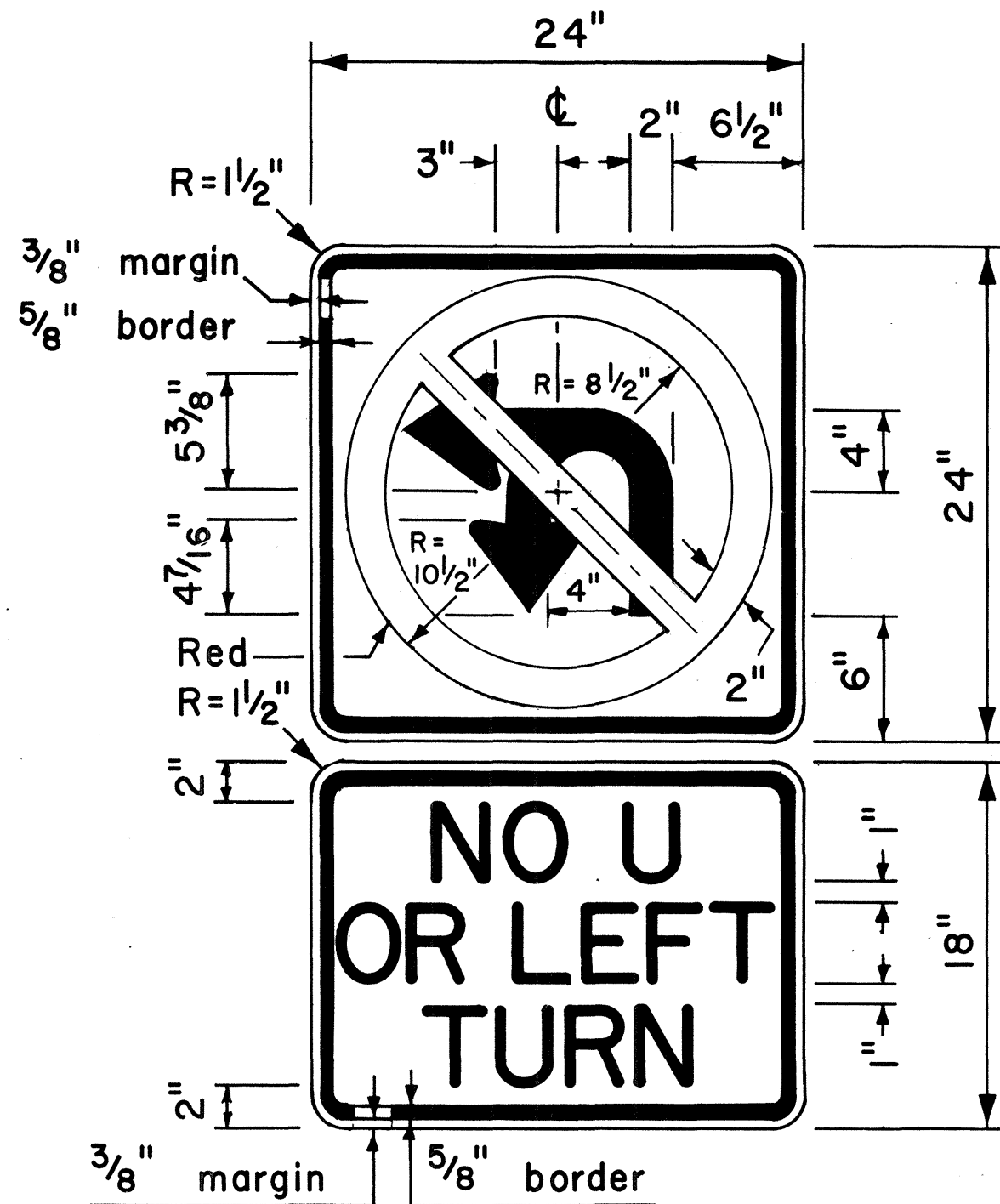
1. Sign details shall conform to the latest editions of the following FHWA publications: "Manual on Uniform Traffic Control Devices for Streets and Highways," and "Standard Highway Signs," and as amended.
2. All regulatory signs shall be reflectorized unless otherwise specified.
3. All regulatory signs shall have 3/8" bolt holes drilled at appropriate locations.



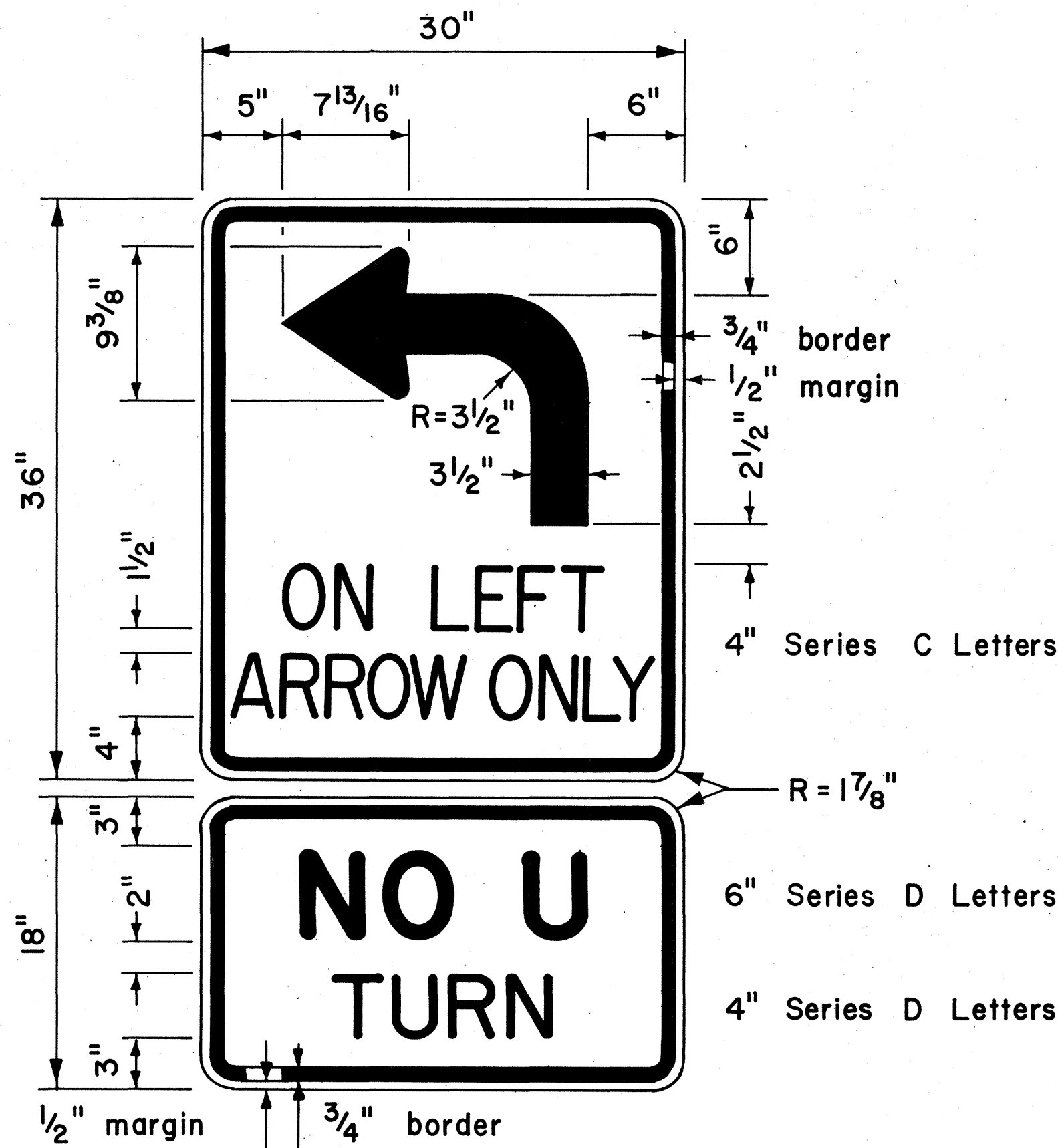
4" Series D Letters
R17-1



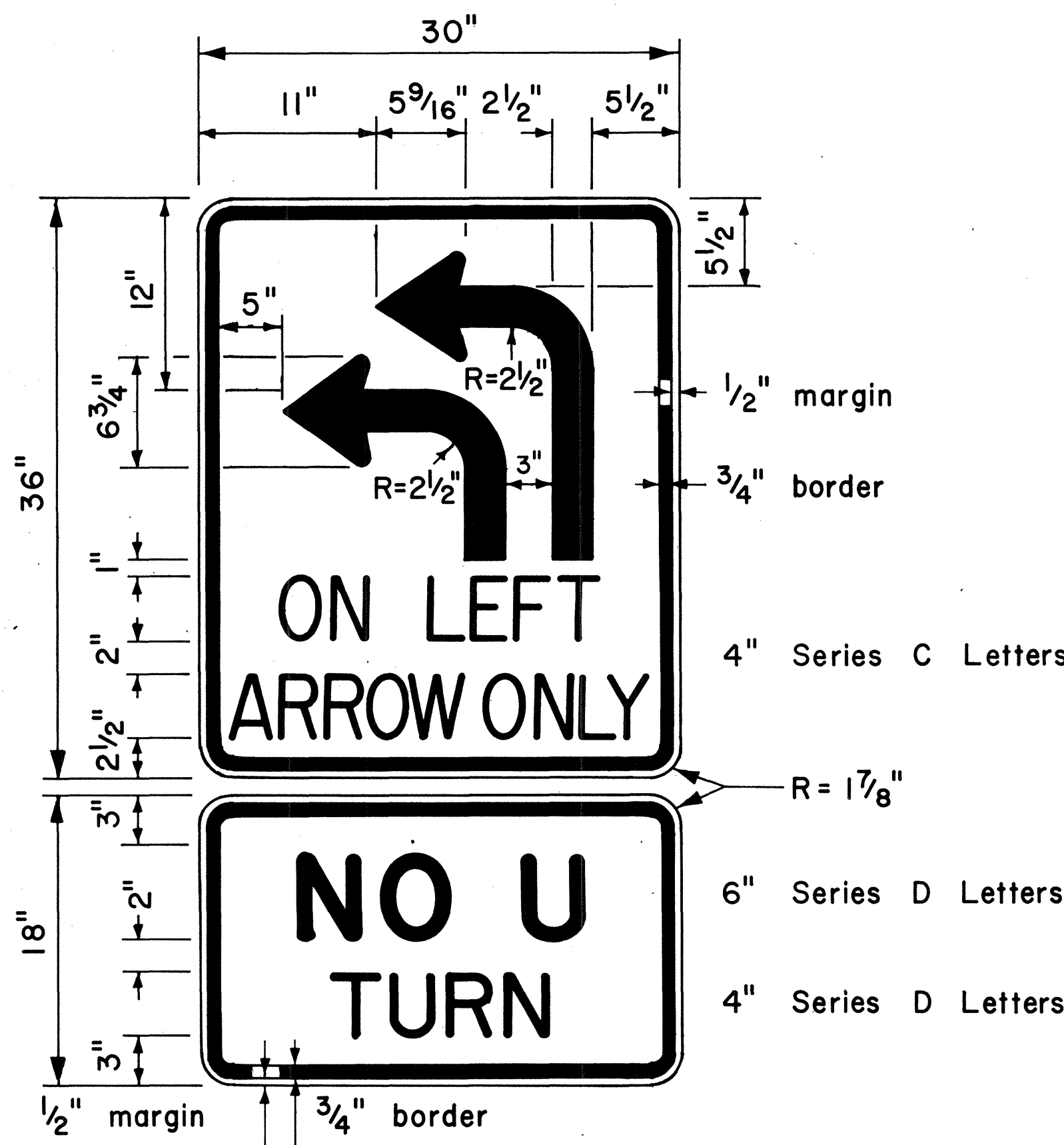
4" Series D Letters
R17-2



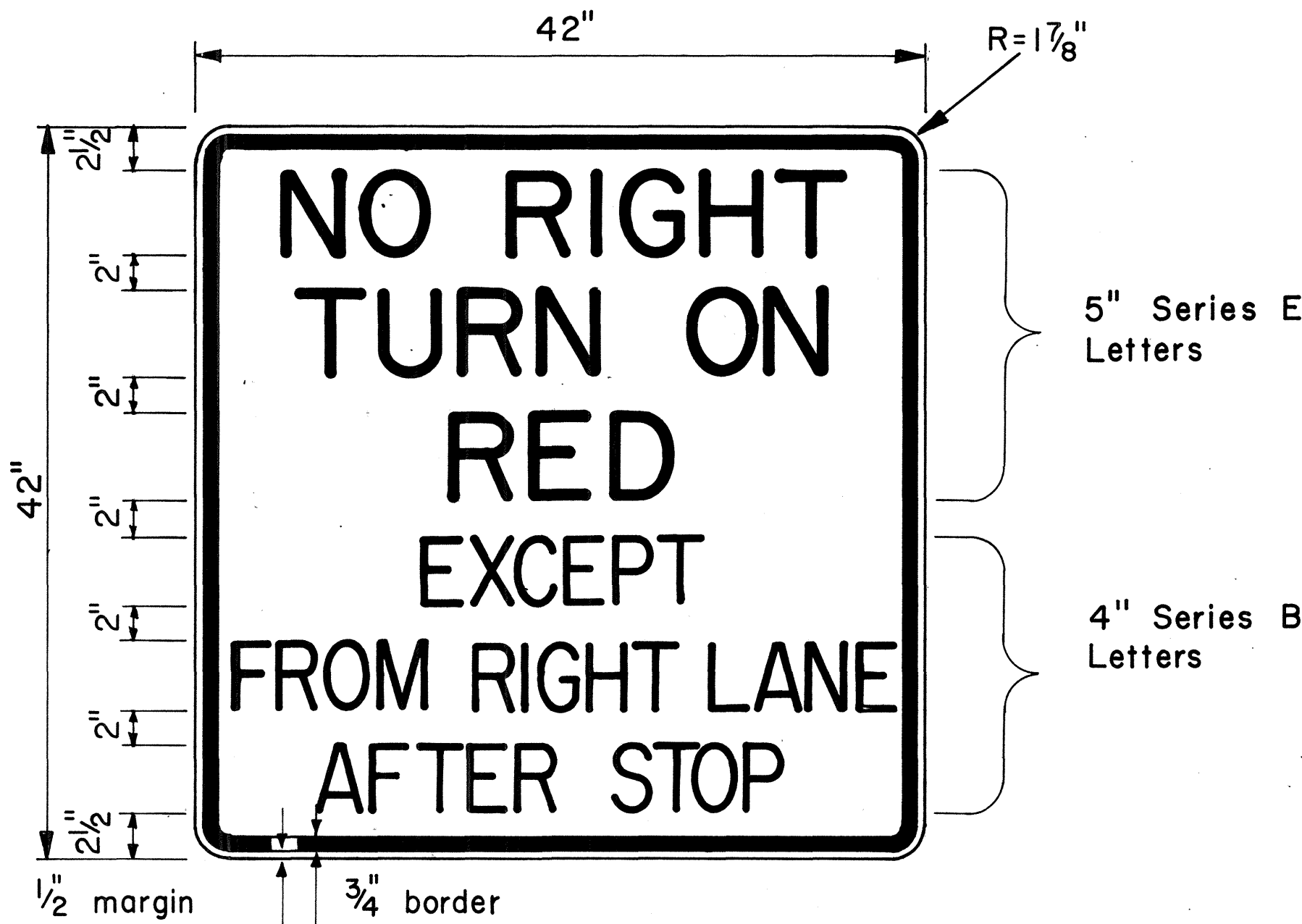
4" Series D Letters
R3-4b



R17-3



R17-4



R10-11d

NO.	REVISION	APPROVED BY	DATE

APPROVAL RECOMMENDED:
Eishi Tanaka 8/1/77
 TRAFFIC ENGINEER DATE
 APPROVED:
Harvey Zalechko 8/16/77
 ASSISTANT CHIEF, ENGINEERING DATE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 LAND TRANSPORTATION FACILITIES DIVISION
STANDARD DETAILS
 MISCELLANEOUS
 INTERSECTION SIGNS

Scale: 1/2" = 1'-0" Date: Aug., 1977

SHEET No. 20 OF 25 SHEETS DT 112

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(10)	1978	132	160

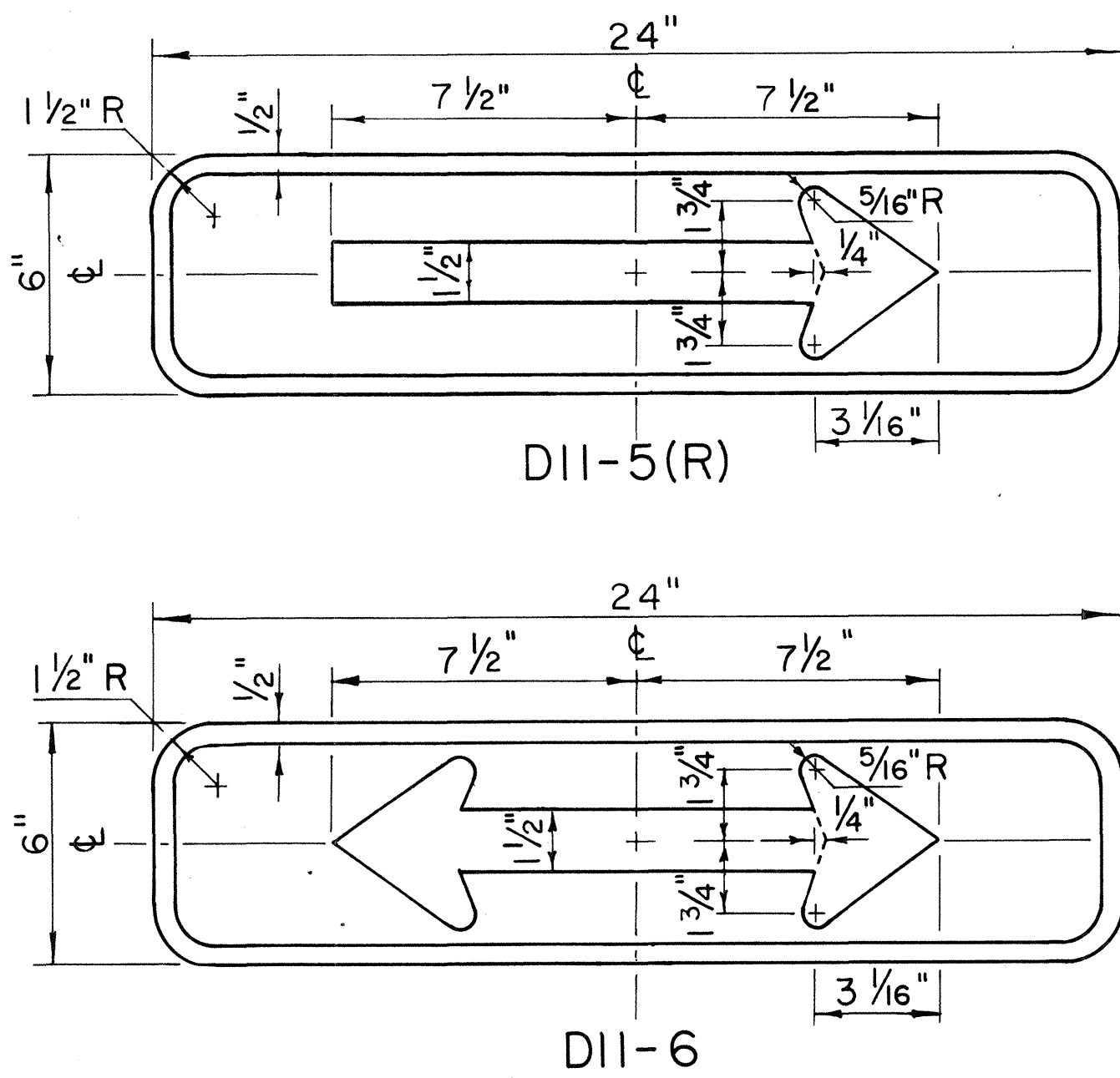
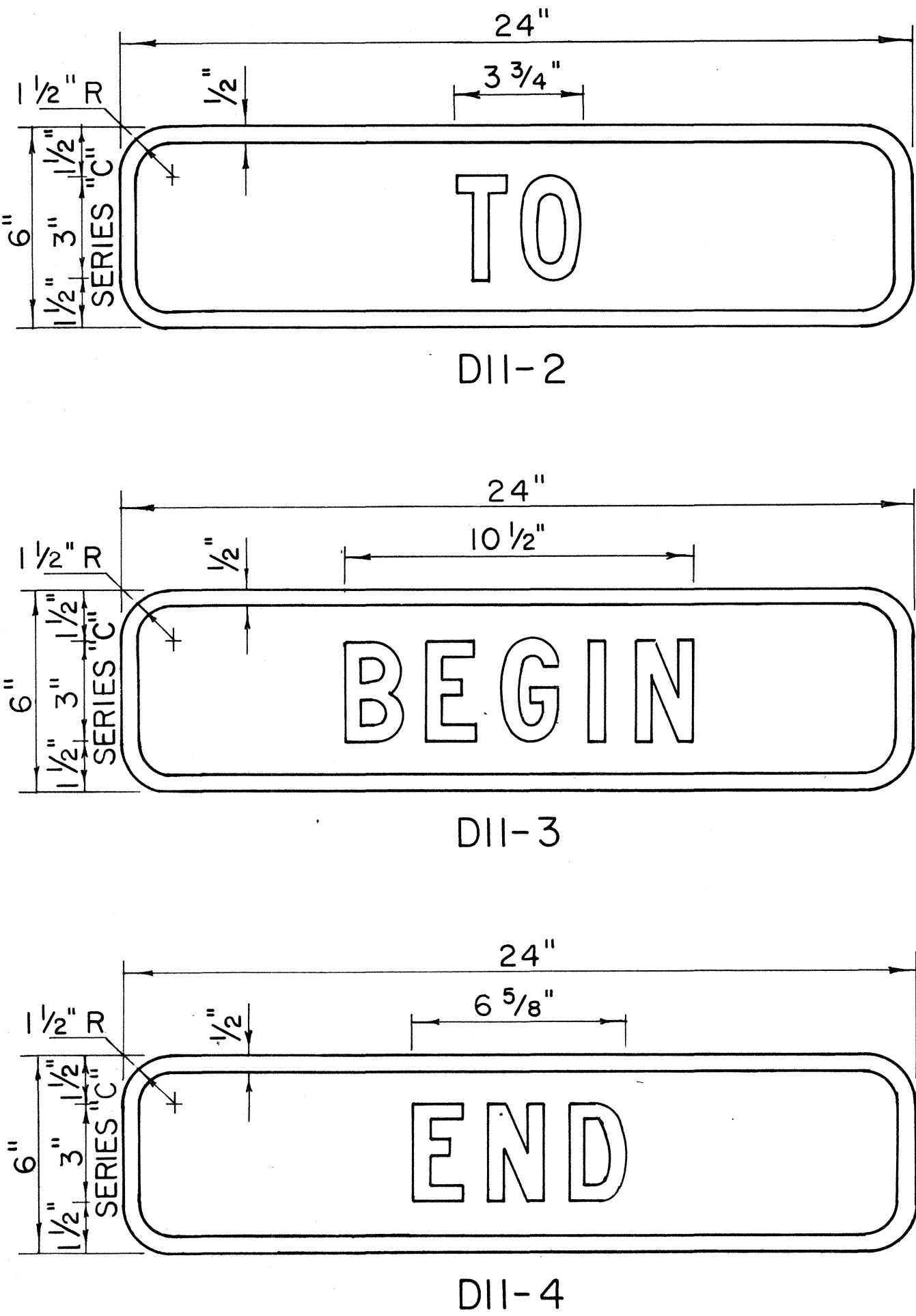
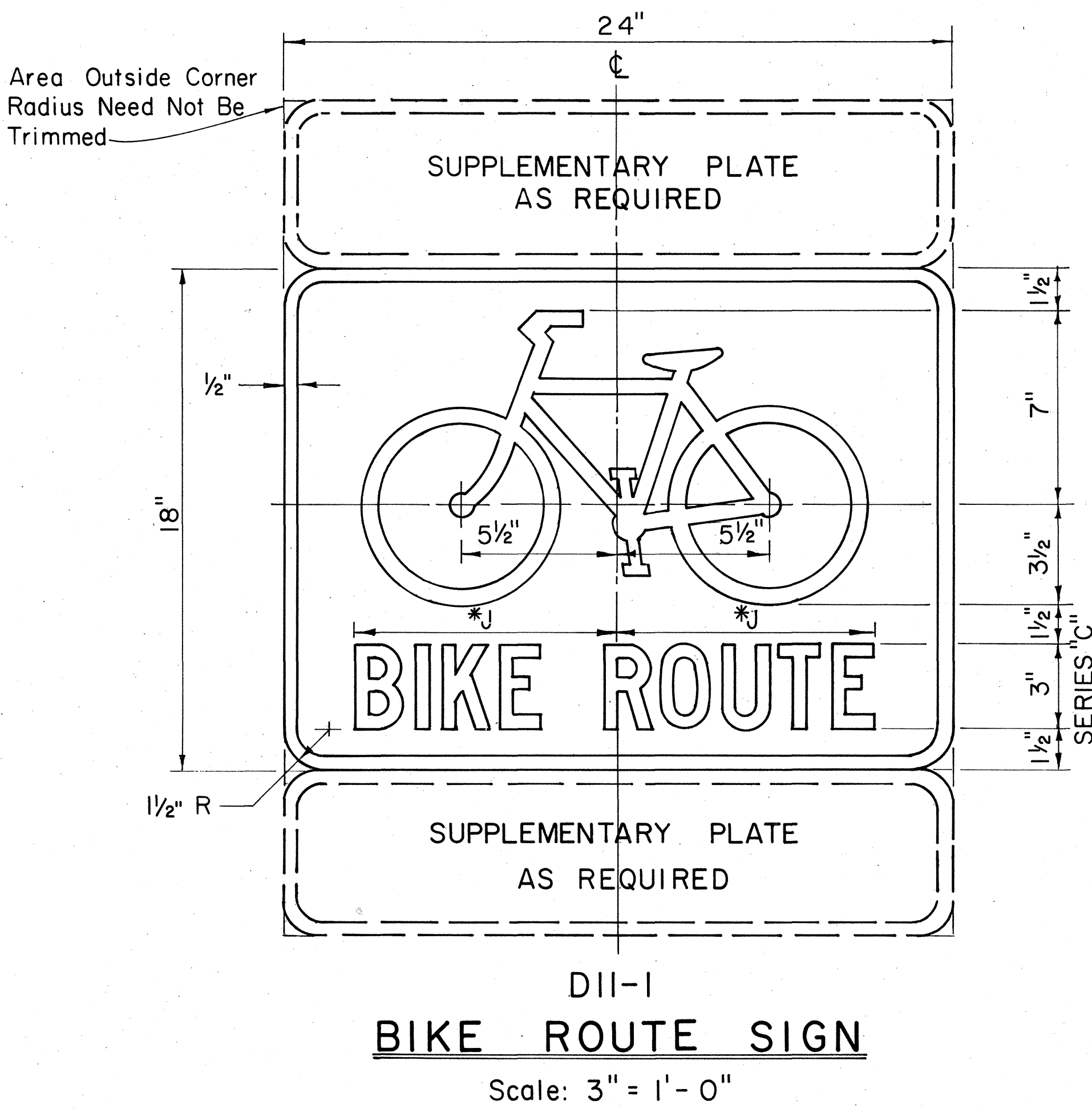
GENERAL NOTES BIKE ROUTE SIGN & SUPPLEMENTARY PLATES

- Sign details shall conform to the latest edition of the following FHWA publications: "Manual on Uniform Traffic Control Devices for Streets and Highways", "Standard Highway Signs" and "Standard Alphabets for Highway Signs" and as amended.
- Legend and borders shall be white (reflectorized) on a green (reflectorized) background.
- Drill $\frac{3}{8}$ " ϕ bolt holes (for mounting) at appropriate locations.
- When Supplementary Plates (DII-2 to DII-6 only) are required with Bike Route Sign (DII-1 or Alternate), the Sign Assembly shall be mounted on a single metal plate (24" x 24" or 24"x30") and shall be arranged as shown on the plans.

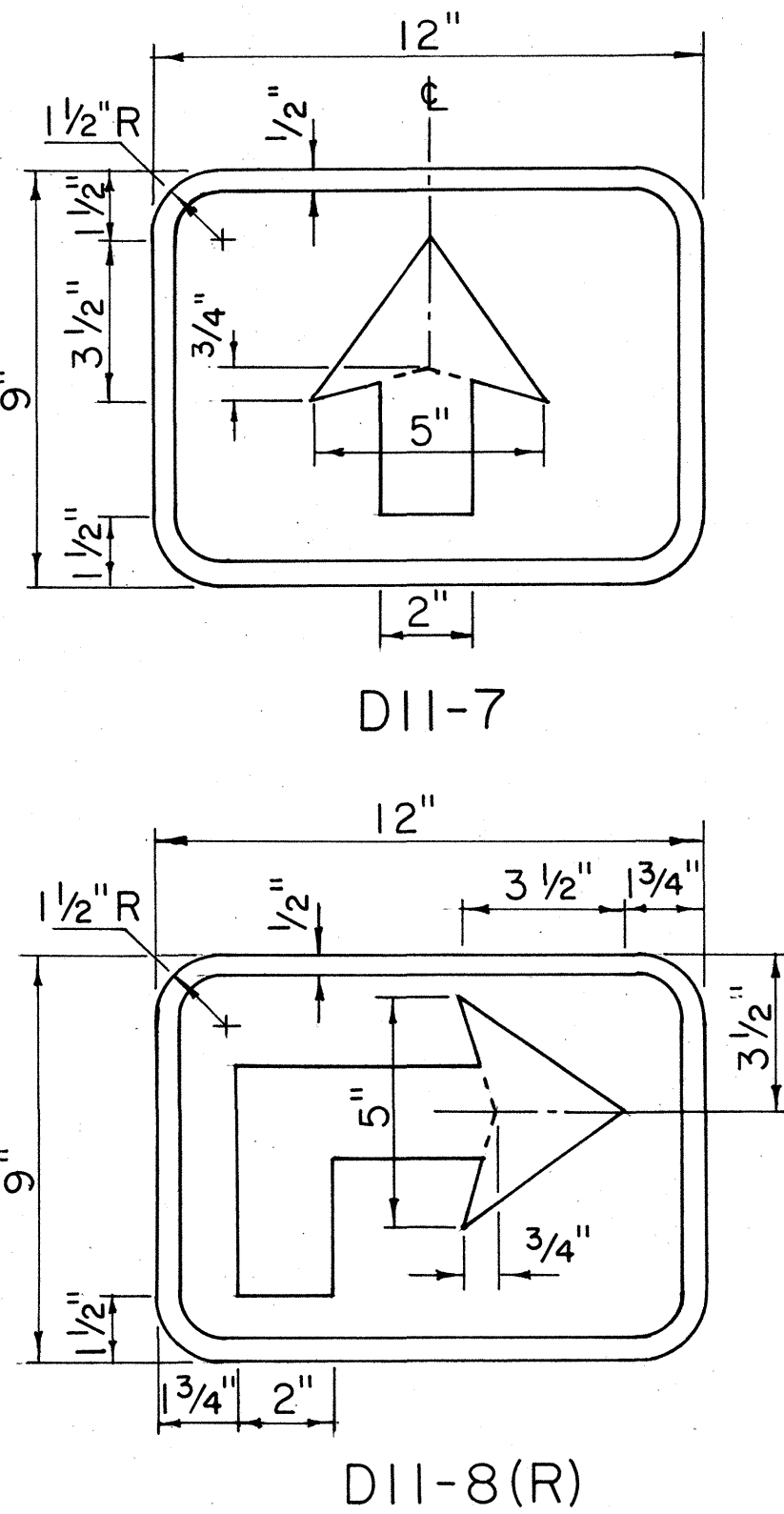
*5. Alternate sign messages shall be denoted by the following:

DII-1a: Bike Lane
DII-1b: Bike Path
DII-1c: Bikeway

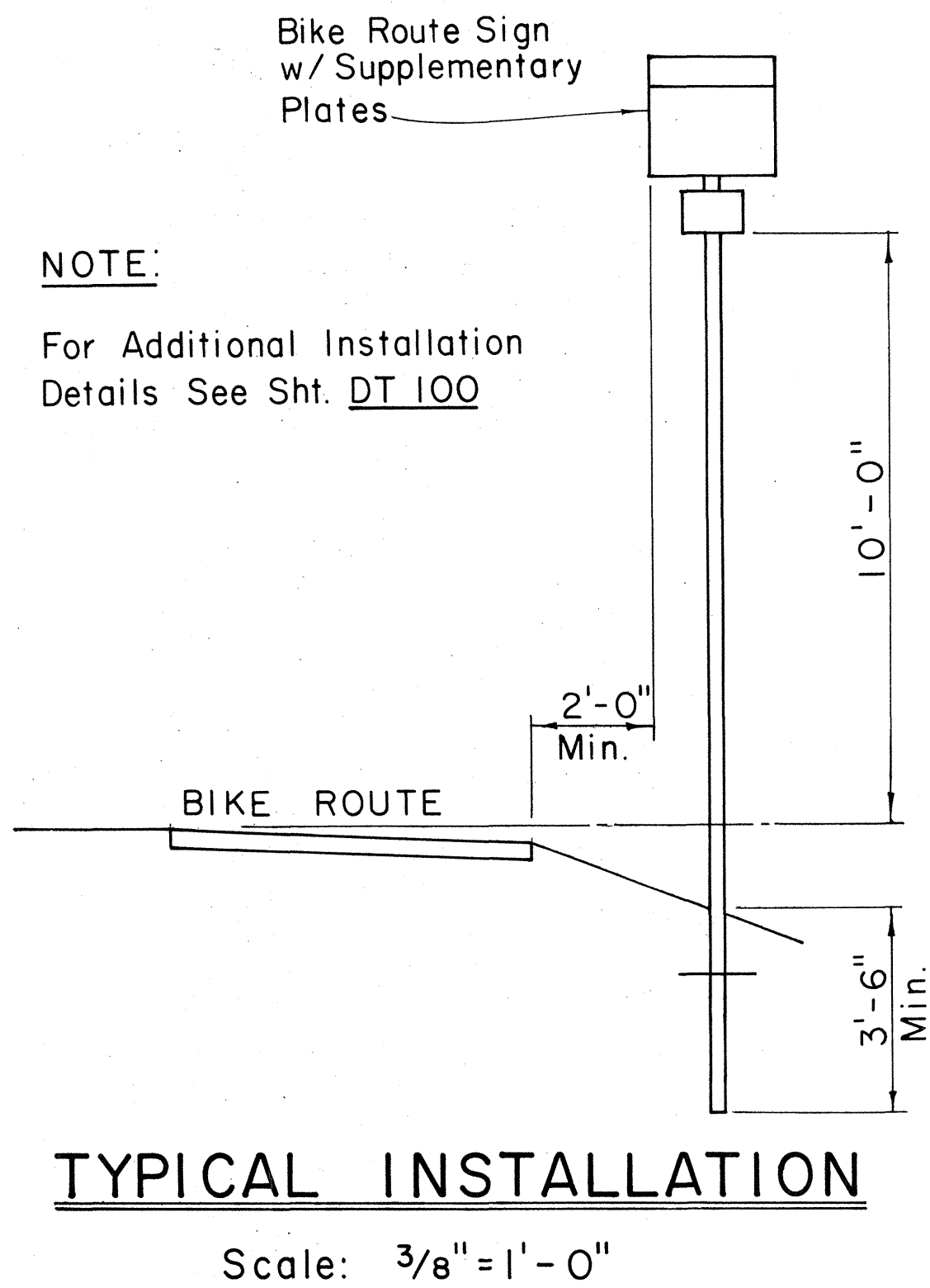
Dimension "J" varies. Visually center Alternate message.



SUPPLEMENTARY PLATES Scale: 3" = 1'-0"



NOTE:
For Additional Installation
Details See Sht. DT 100



TYPICAL INSTALLATION Scale: 3/8" = 1'-0"

APPROVAL RECOMMENDED:
Eric L. Tanaka
TRAFFIC ENGINEER
DATE: 11/7/77

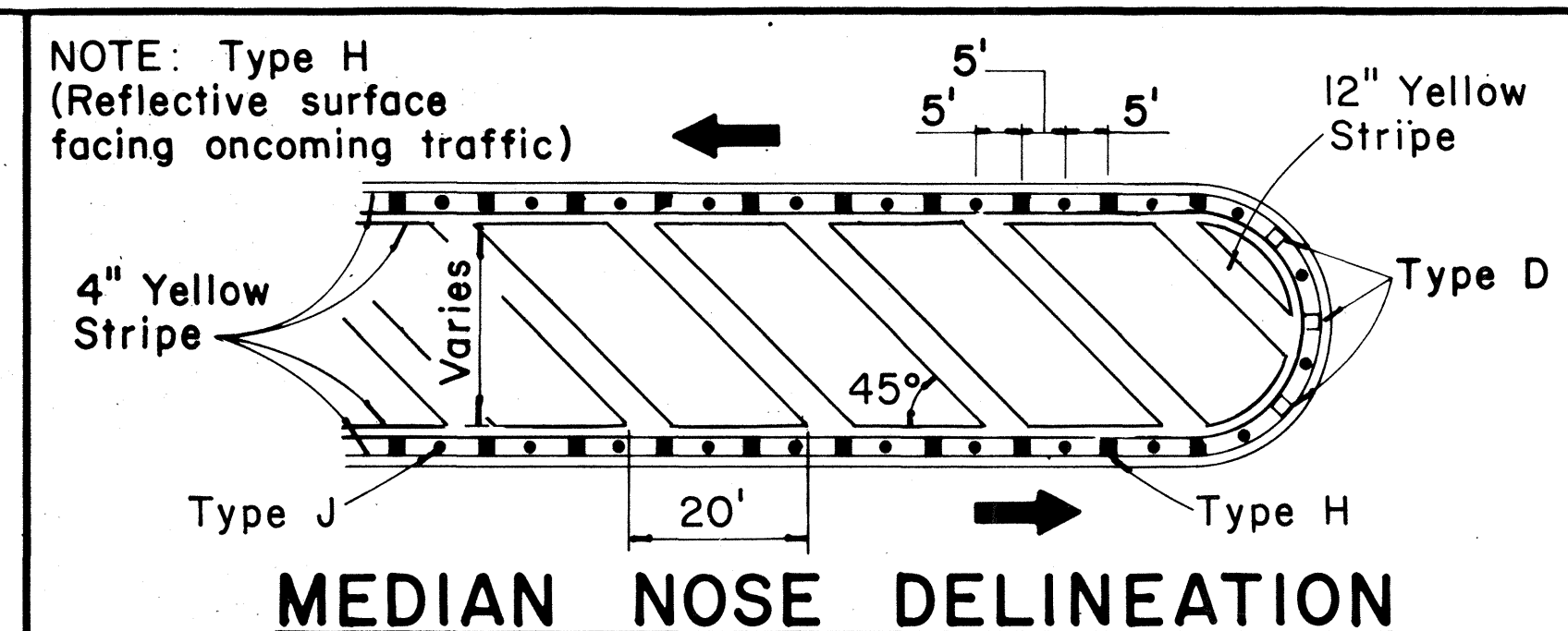
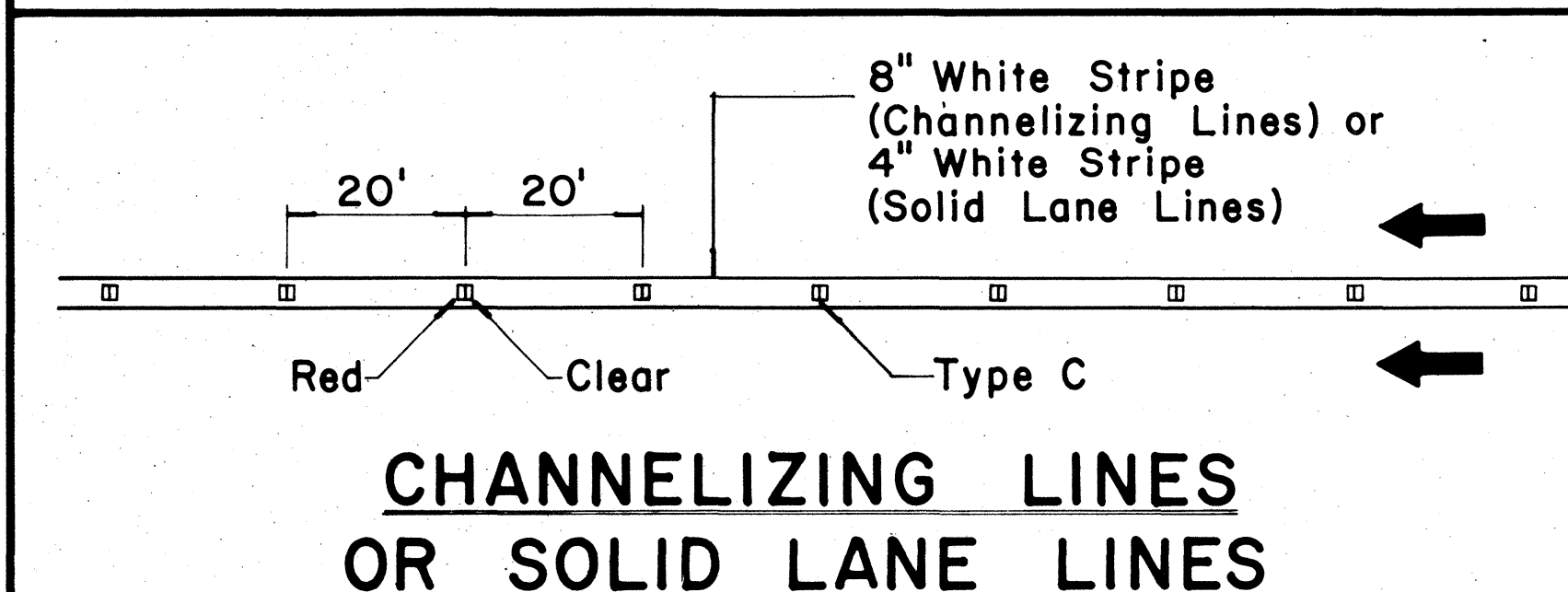
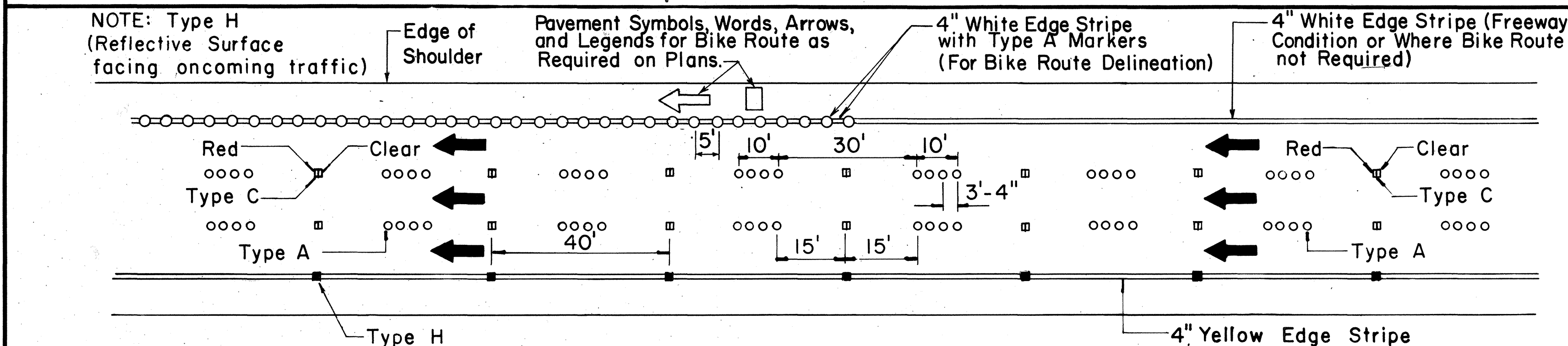
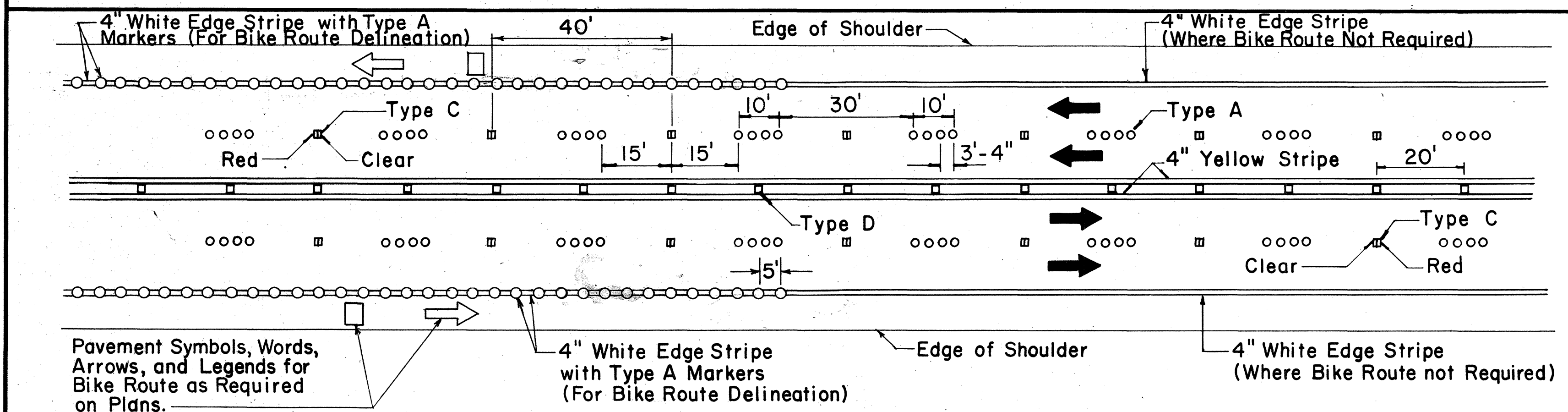
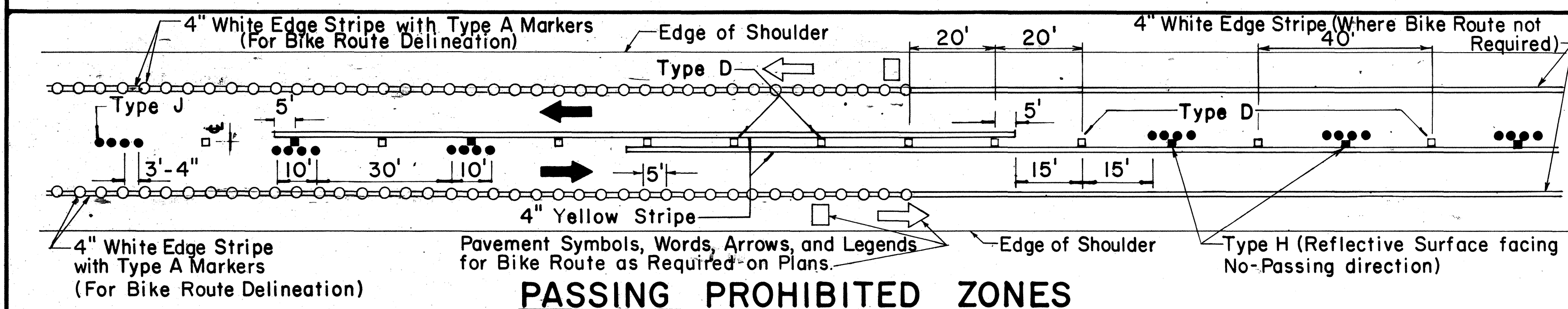
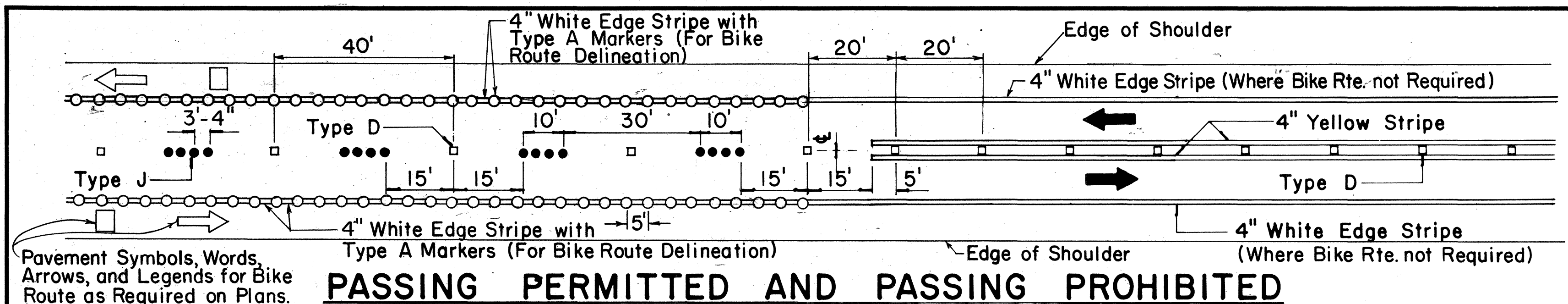
APPROVED:
Herbert S. Sakai
ASSISTANT CHIEF, ENGINEERING
DATE: 11/7/77

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION
STANDARD DETAILS
BIKE ROUTE SIGN
& SUPPLEMENTARY PLATES
Scale: As Shown
June 1977
SHEET No. 21 OF 25 SHEETS DT 114

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(10)	1978	133	160

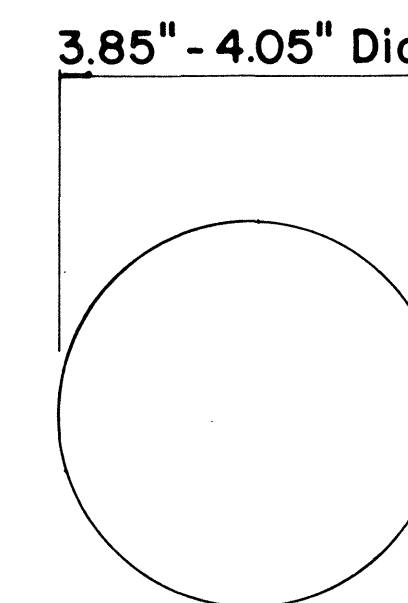


TWO - LANE

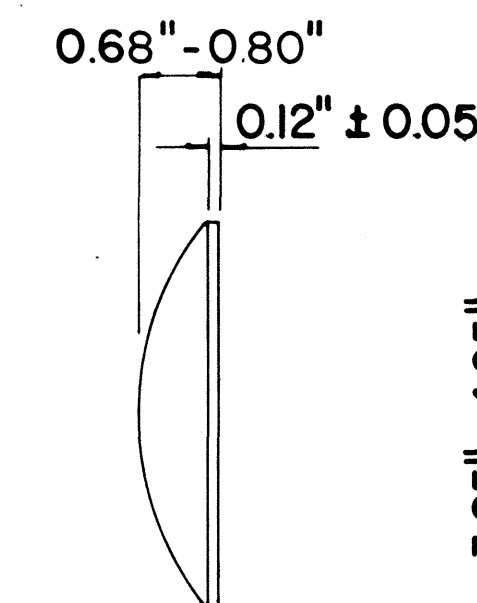
MULTI - LANE

DIVIDED HIGHWAY AND FREEWAY

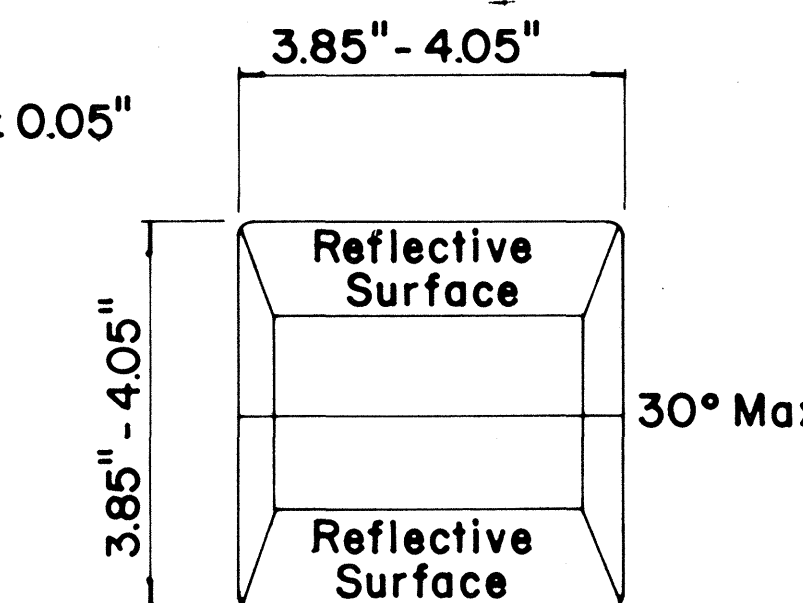
MISCELLANEOUS



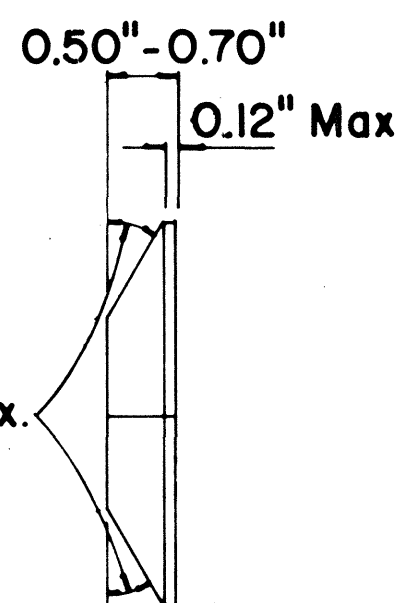
TYPE A
NON-REFLECTIVE WHITE MARKER



TYPE J
NON-REFLECTIVE YELLOW MARKER



TYPE C
RED-CLEAR REFLECTIVE MARKER



TYPE H
ONE-WAY YELLOW REFLECTIVE MARKER

GENERAL NOTES

- Pavement marking and striping shall conform to the latest "Manual on Uniform Traffic Control Devices for Streets and Highways," and as amended.
- Layout and installation of pavement marking and striping shall be done by the Contractor. The Contractor shall check the layouts with the Engineer prior to performing work.

LEGEND

- Type A
- Type C
- Type D
- Type H
- Type J

APPROVAL RECOMMENDED:

Erich Tanaka
TRAFFIC ENGINEER

7/21/78
DATE

APPROVED:

Robert S. Zalewski
ASSISTANT CHIEF, ENGINEERING

1/24/78
DATE

No.	REVISION	APPROVED BY	DATE
1	Supersedes DT 300 approved 11/18/71.	H.T.	1/24/78

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAILS RAISED PAVEMENT MARKERS AND STRIPING

Not to Scale July 1978

SHEET No. 22 OF 25 SHEETS DT 300

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-063-1(10)	1978	134	160

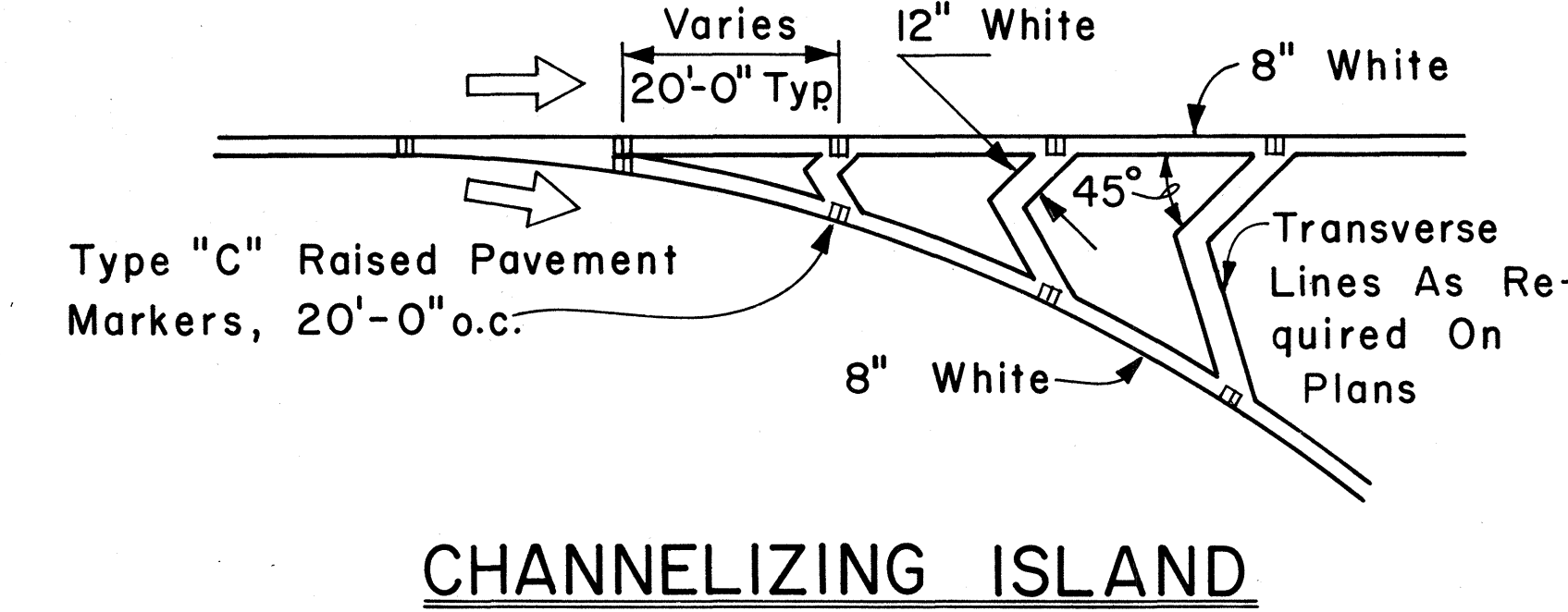
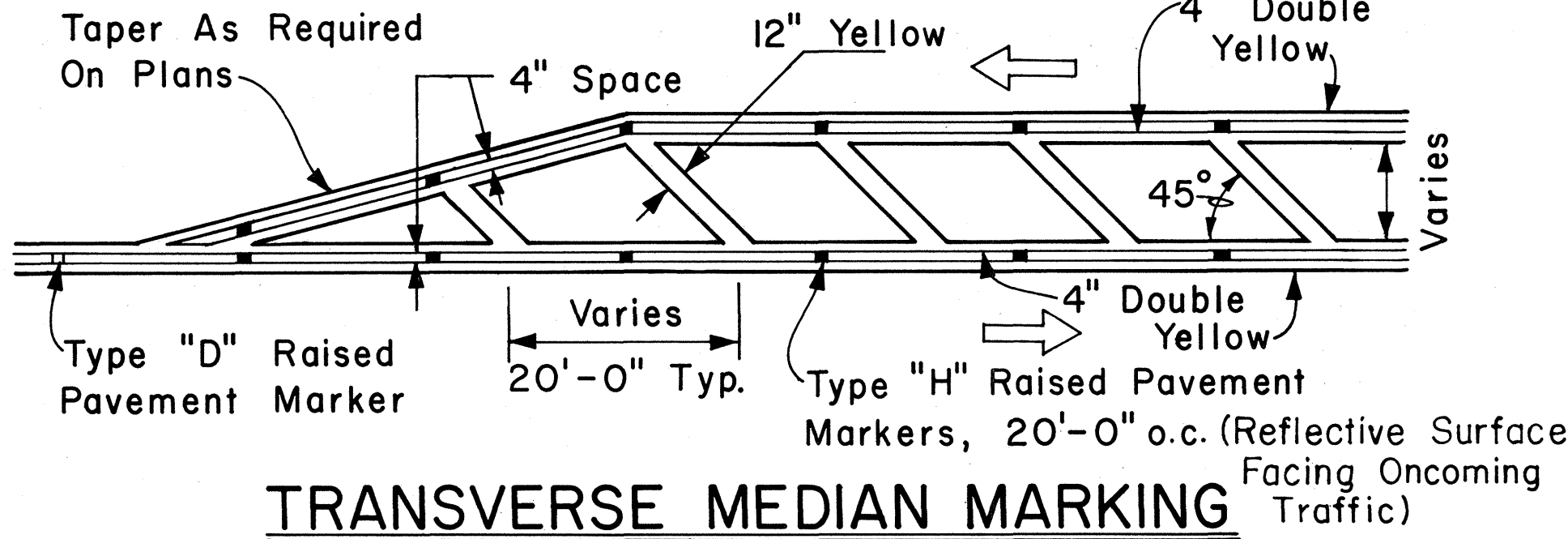
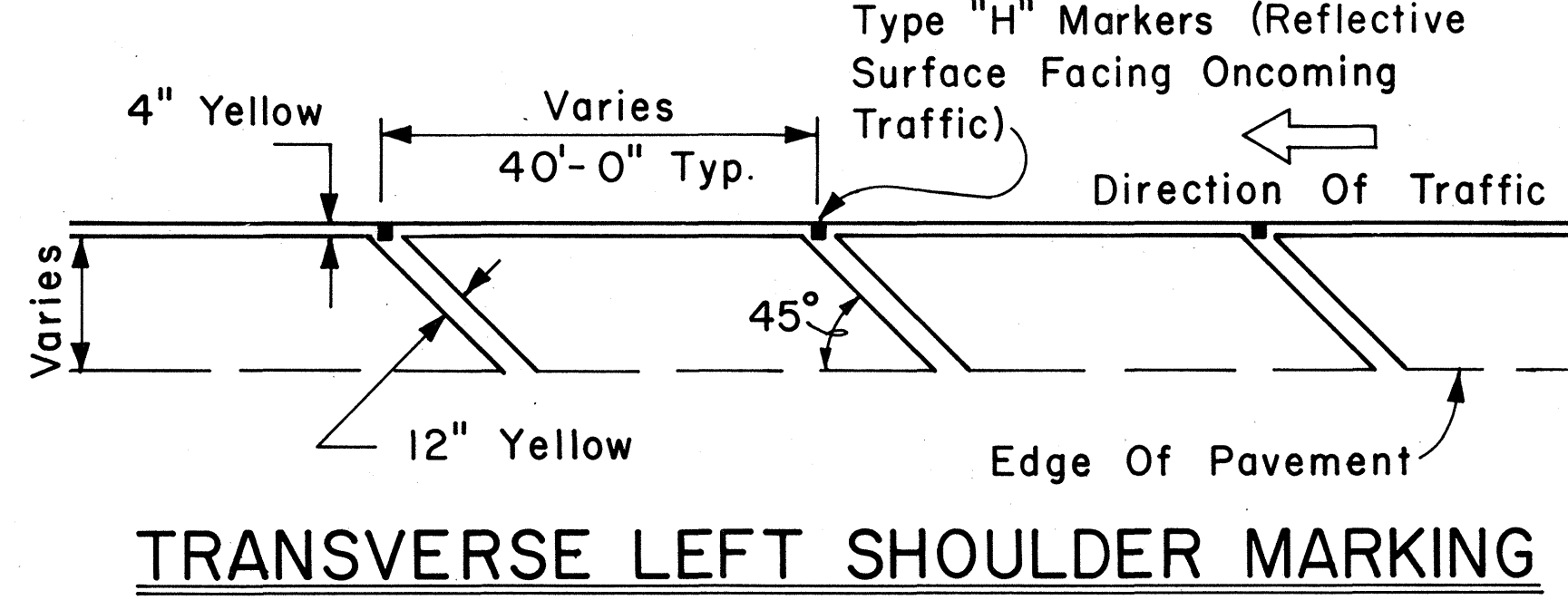
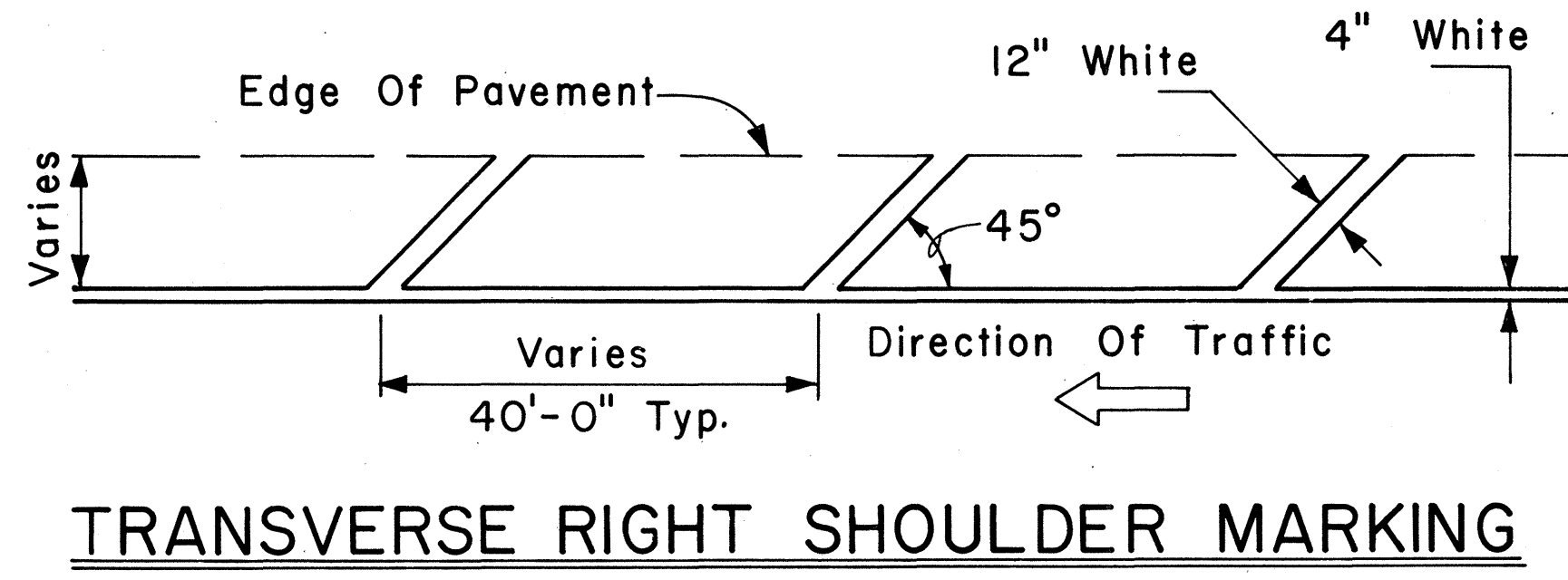
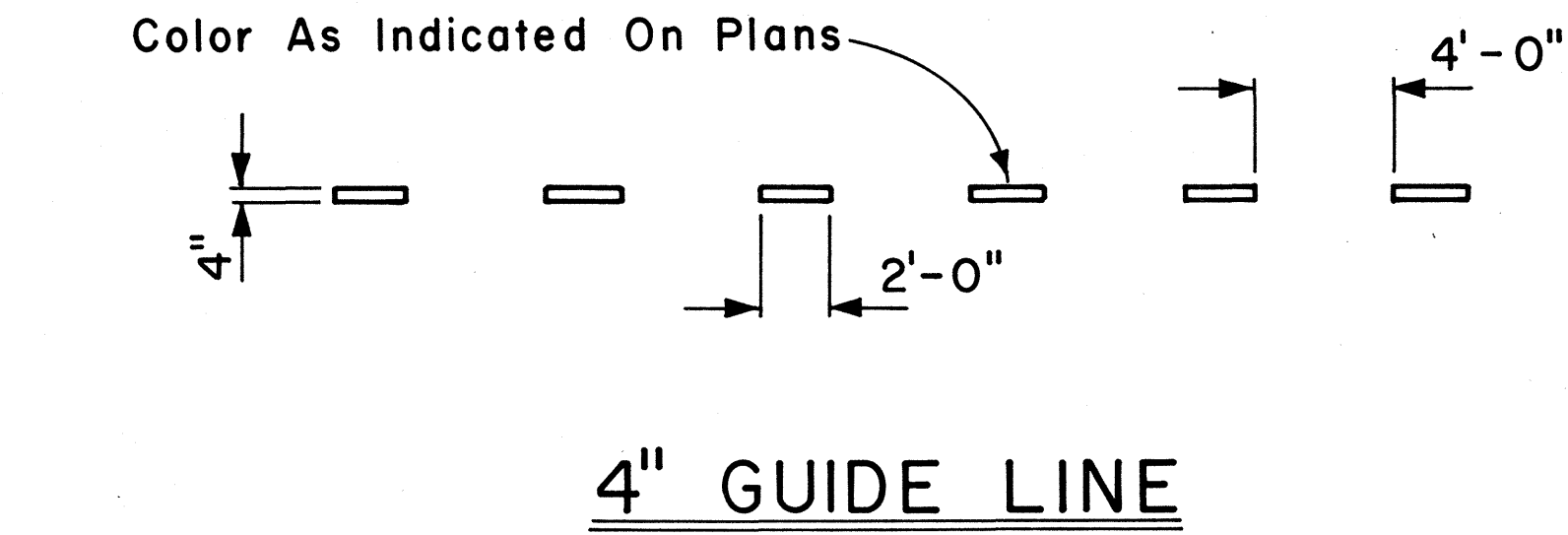
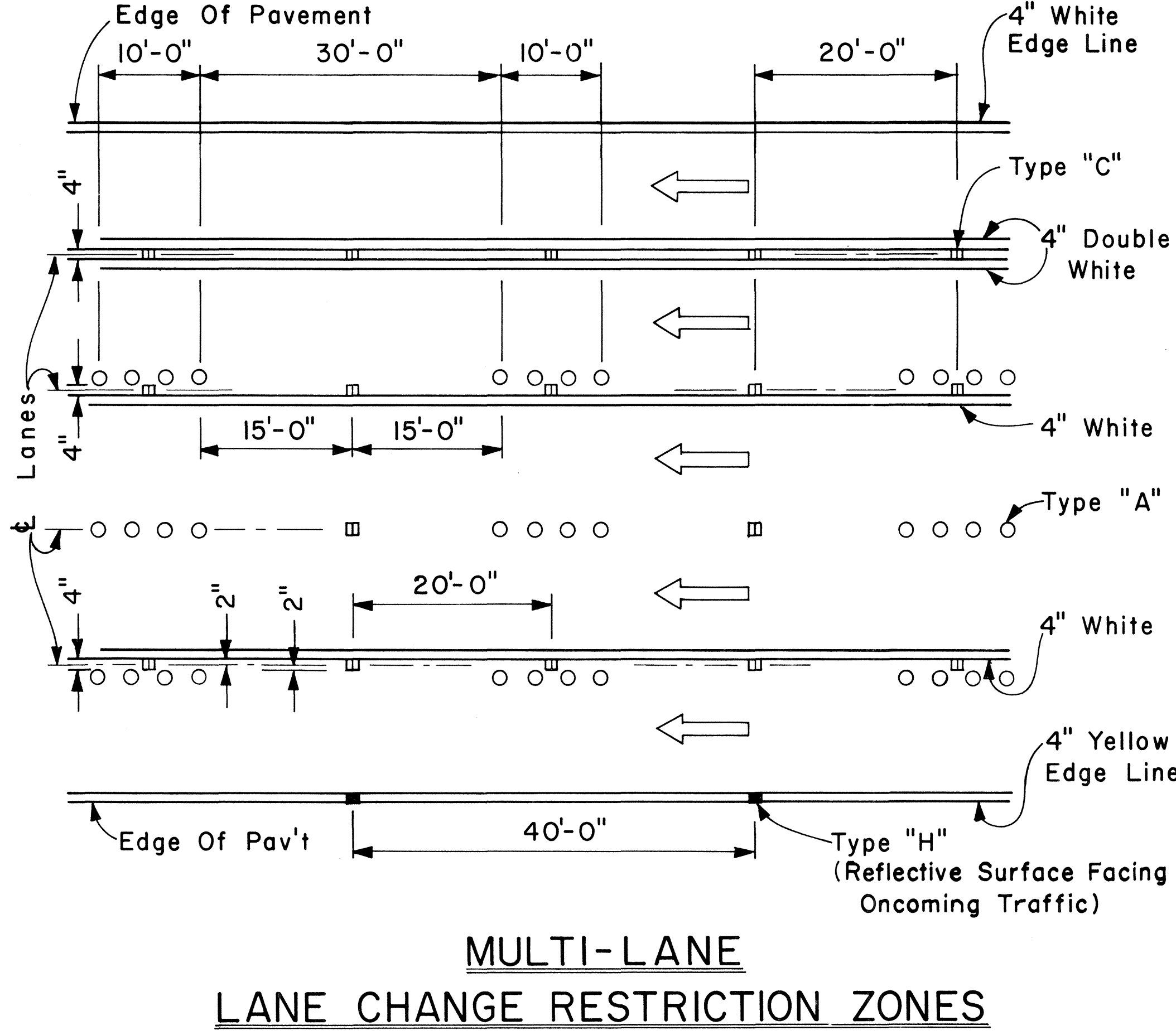
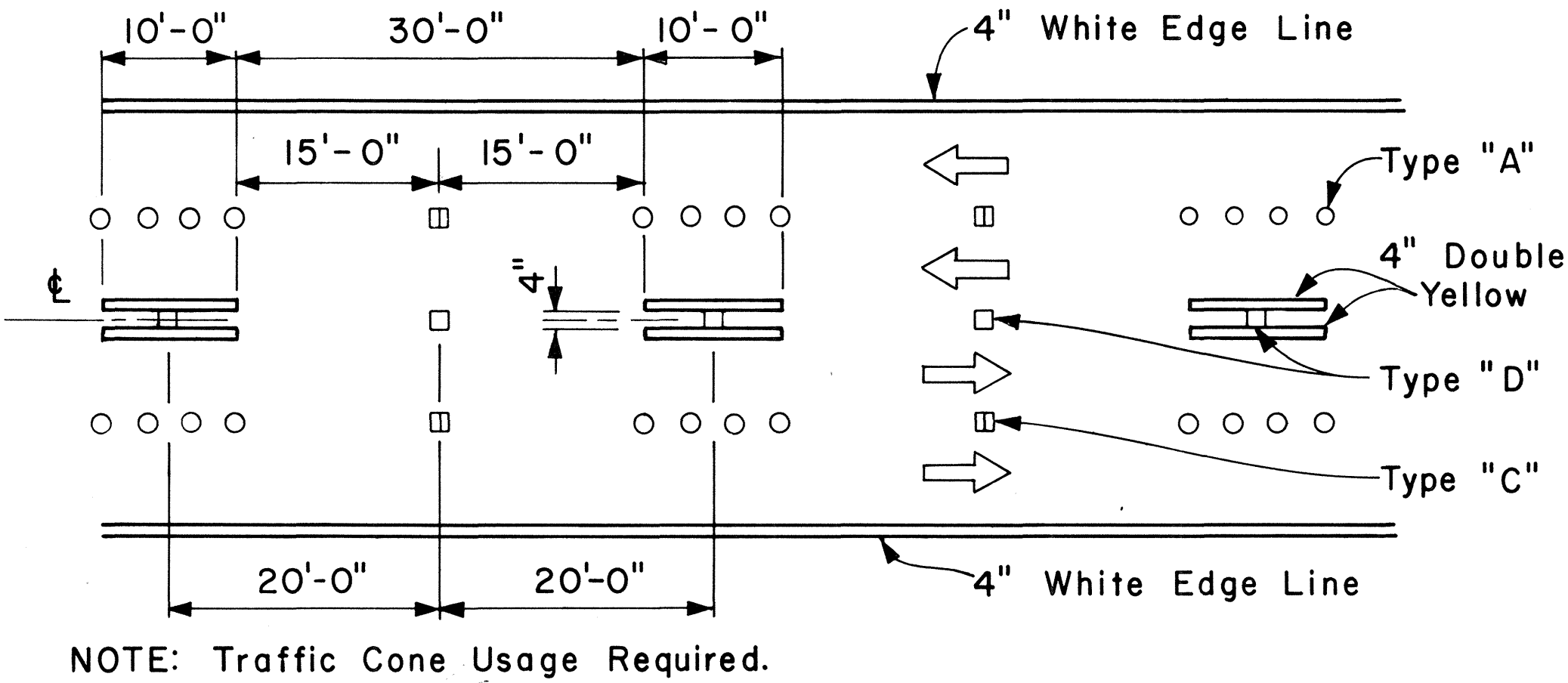
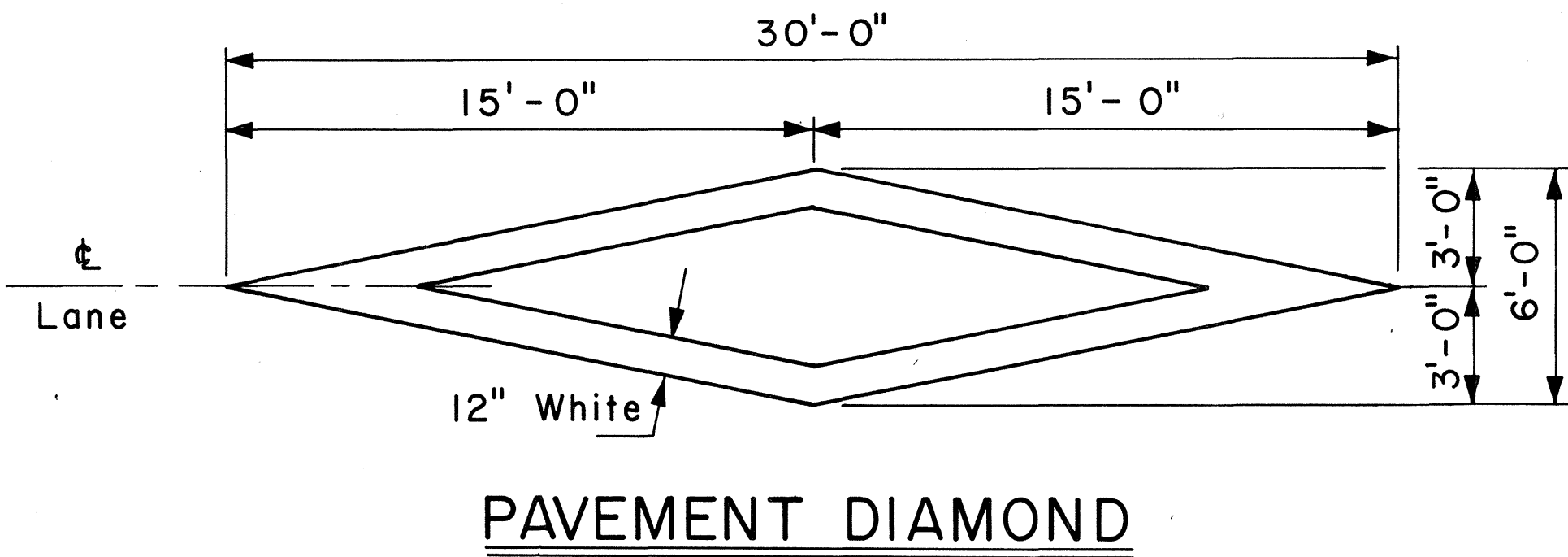
GENERAL NOTES:

1. Pavement marking and striping shall conform to the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways," by the FHWA, and as amended.
2. Layout of pavement markings and striping shall be done by the Contractor. The Contractor shall check layout of markings and striping with the Engineer prior to performing work.
3. For additional pavement marking details, see sheet DT 300.

APPROVAL RECOMMENDED:
Eishi Tanaka 5/2/78
TRAFFIC ENGINEER DATE

APPROVED:
Harbert S. Zalsichw 5/3/78
ASSISTANT CHIEF, ENGINEERING DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION
STANDARD DETAILS
MISCELLANEOUS
PAVEMENT MARKINGS
Scale: Not to Scale Date: April, 1978
SHEET NO. 23 OF 25 SHEETS DT 302

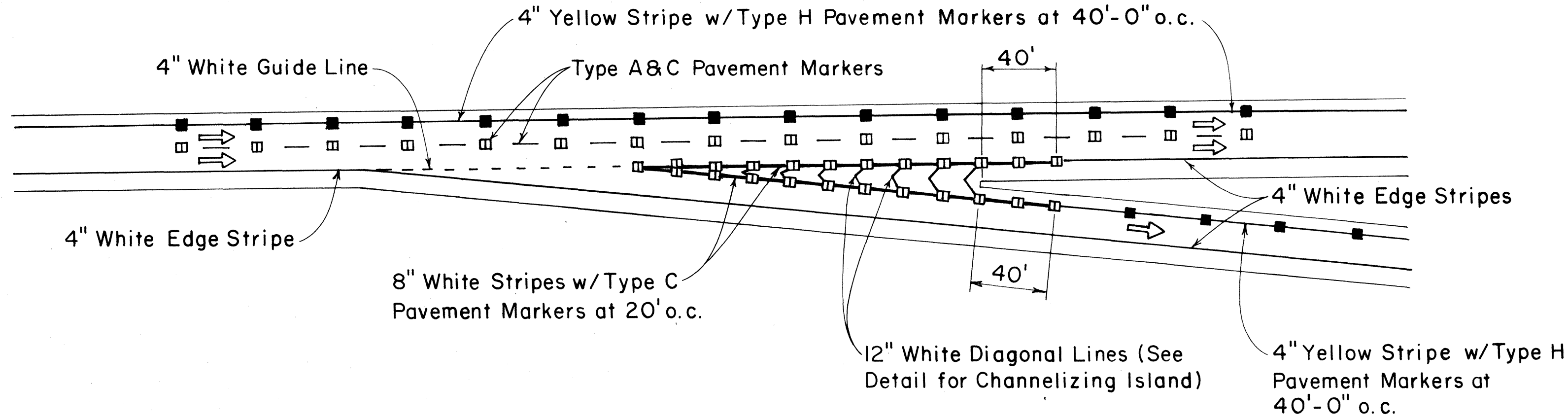


DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
NO.	_____

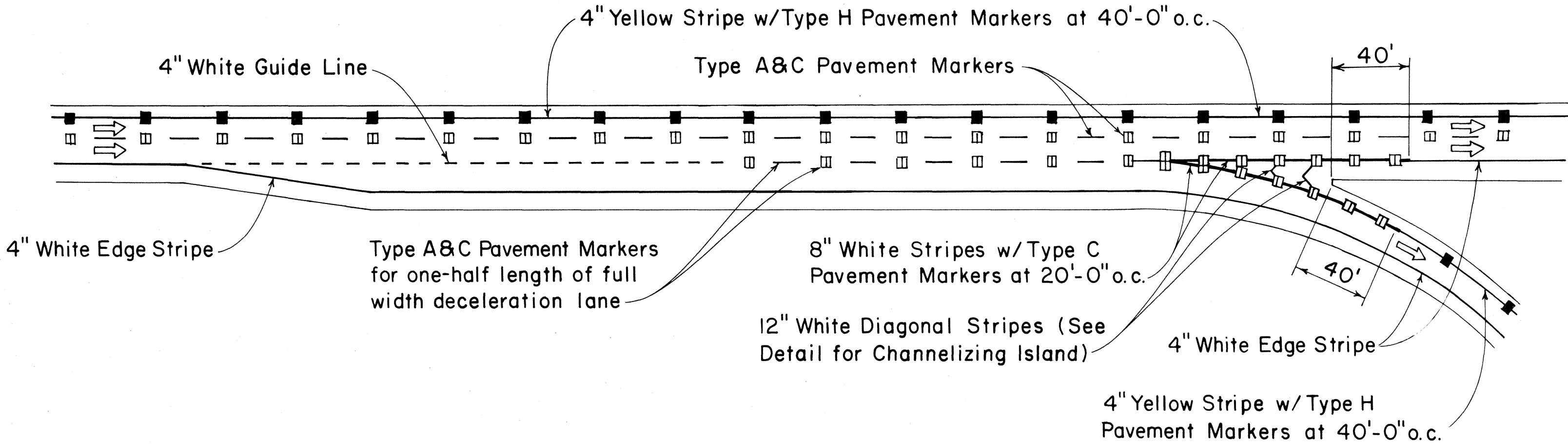
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(10)	1978	135	160

GENERAL NOTES:

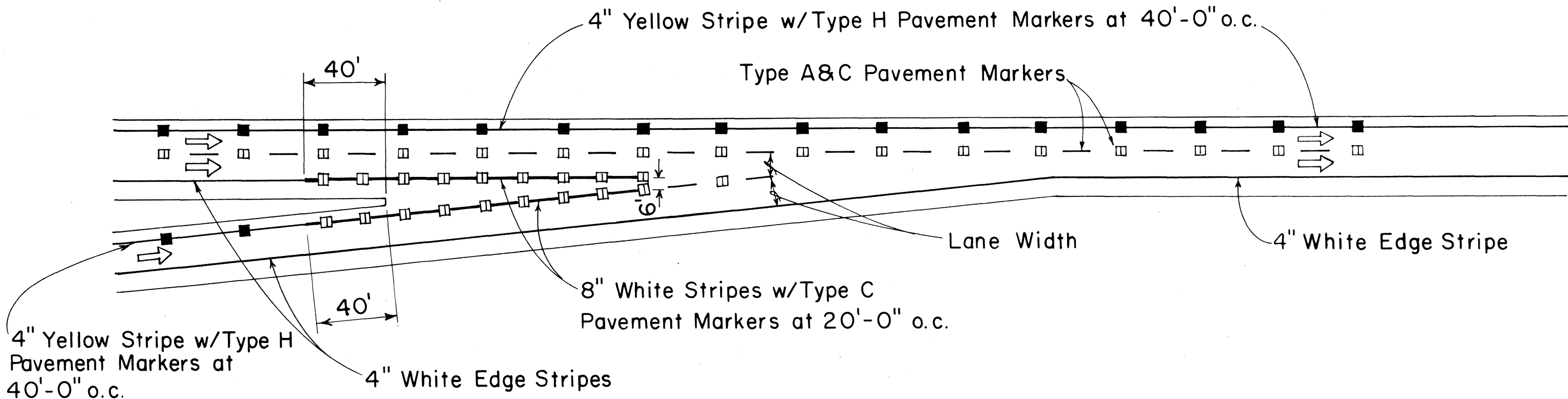
1. Pavement Markings and Striping shall conform to the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways", by the FHWA, and as amended.
2. Layout of Pavement Markings and Striping shall be done by the Contractor. The Contractor shall check layout of markings and striping with the Engineer prior to performing work.
3. For additional details, see sheet DT 300.



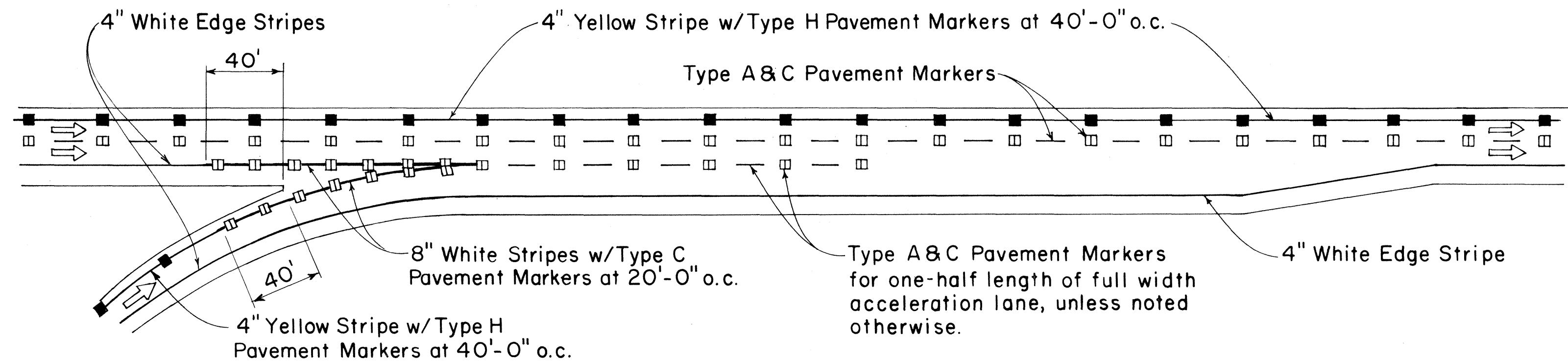
TAPERED DECELERATION LANE



PARALLEL DECELERATION LANE



TAPERED ACCELERATION LANE



PARALLEL ACCELERATION LANE

TYPICAL ROADWAY EXIT MARKINGS

TYPICAL ROADWAY ENTRANCE MARKINGS

APPROVAL RECOMMENDED:
Eishi Tanaka 1/21/78
TRAFFIC ENGINEER DATE

APPROVED:
Robert S. Zakeish 1/24/78
ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE

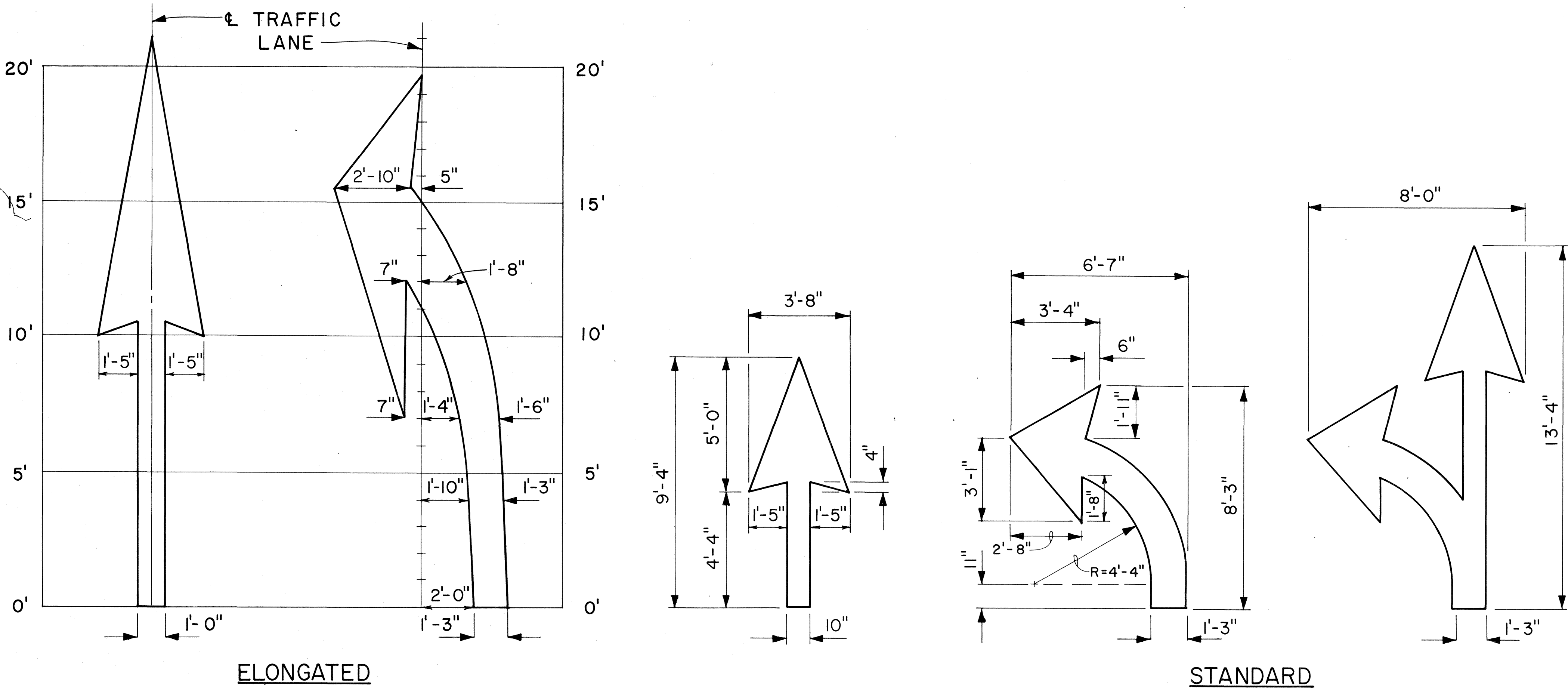
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION
STANDARD DETAILS
MISCELLANEOUS
PAVEMENT MARKINGS
Not to Scale July 1978
SHEET No. 24 OF 25 SHEETSDT 304

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-083-1(10)	1978	136	160

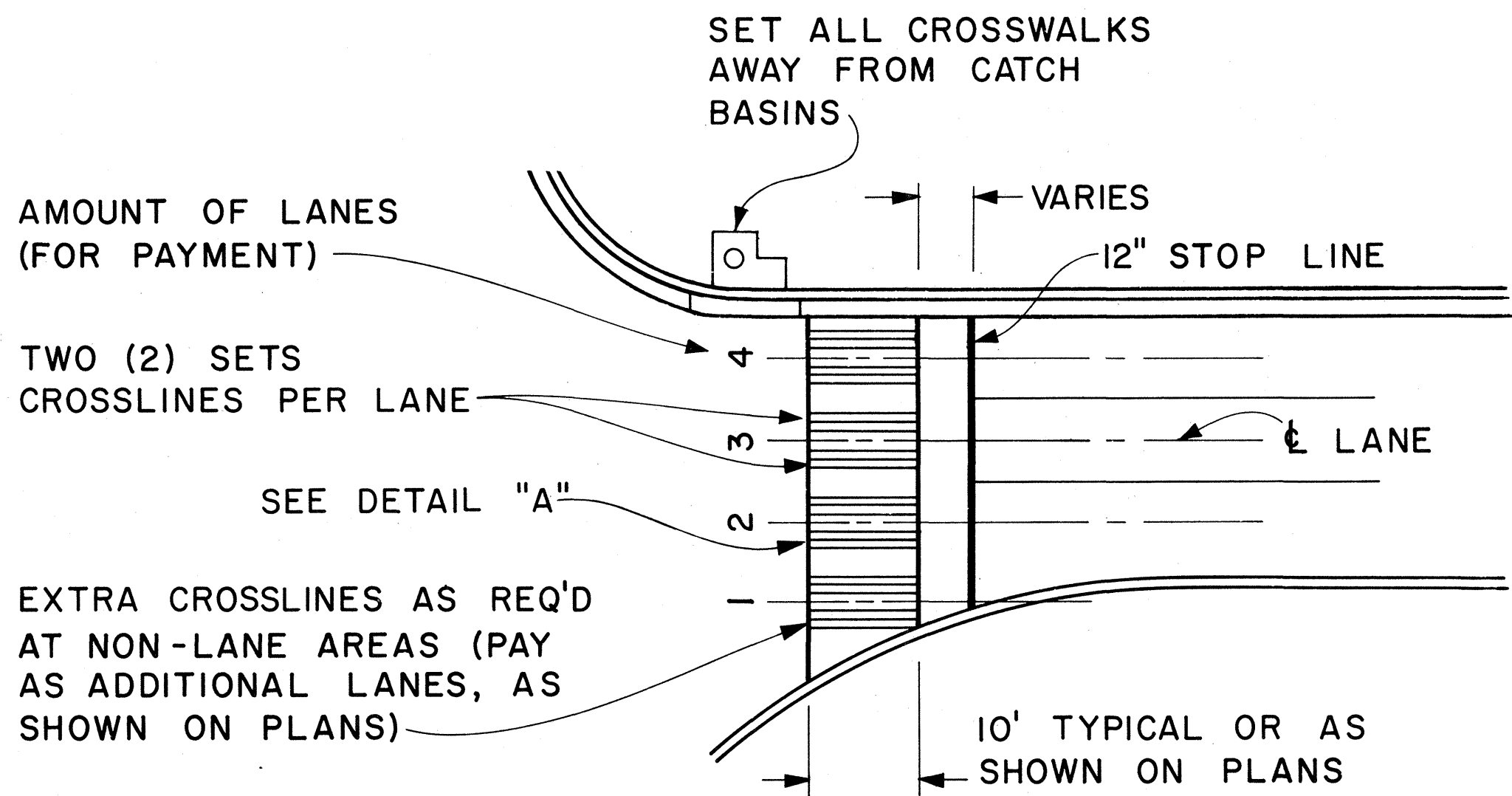
GENERAL NOTES:

1. Pavement marking and striping shall conform to the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways," by the FHWA, and as amended.
2. Layout of pavement markings and striping shall be done by the Contractor. The Contractor shall check layout of markings and striping with the Engineer prior to performing work.
3. For additional pavement marking details, see sheet DT 300.

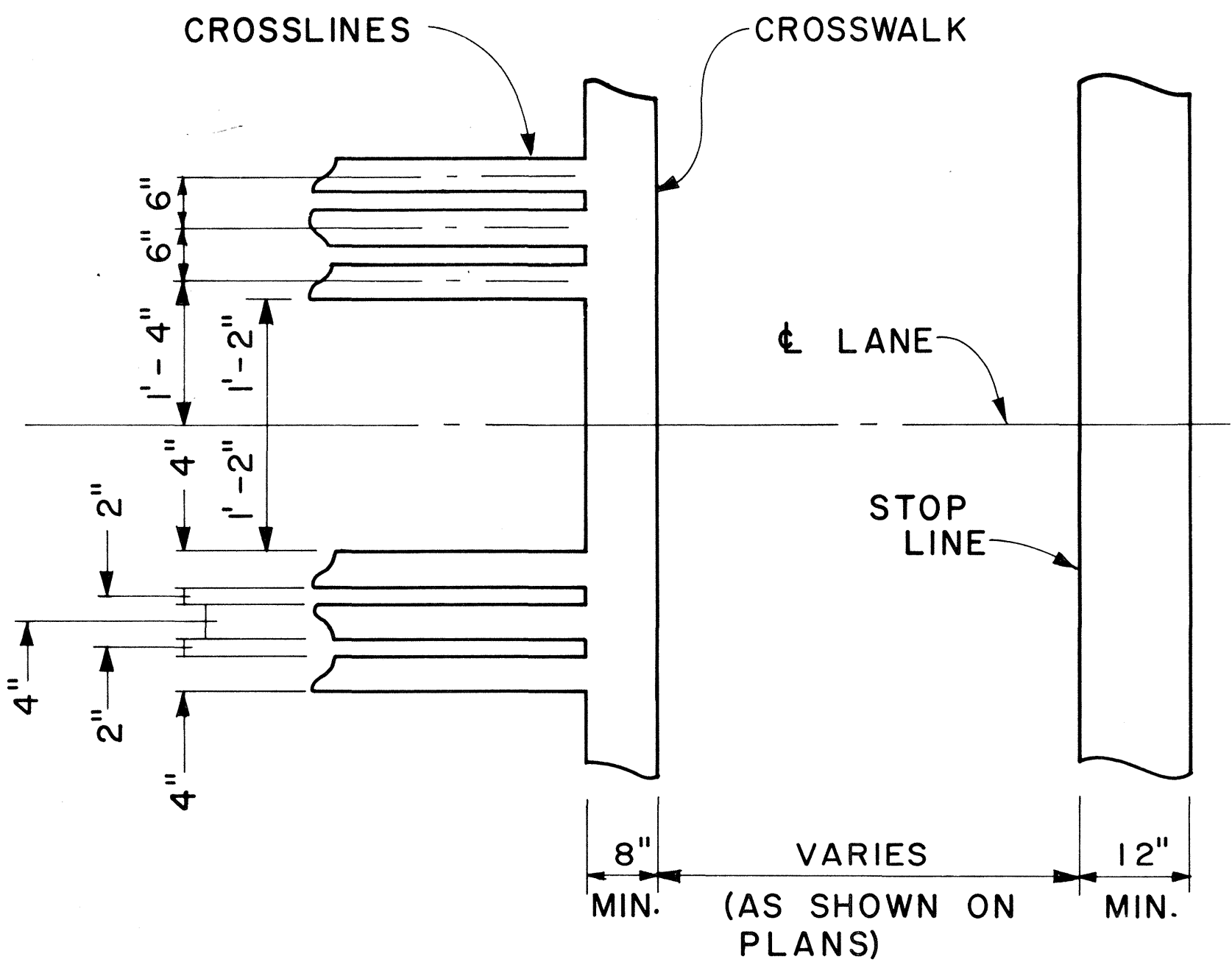


PAVEMENT ARROWS

Scale: 3/8" = 1'



PLAN



DETAIL "A"

CROSSWALK & STOP LINE

Scale: Not to Scale

APPROVAL RECOMMENDED:
Erichi Tanaka
TRAFFIC ENGINEER
5/2/78
DATE

APPROVED:
Harbor 2. Zalechi
ASSISTANT CHIEF, ENGINEERING
5/3/78
DATE

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAILS

MISCELLANEOUS
PAVEMENT MARKINGS

Scale: As Shown Date: March, 1978

SHEET No. 25 OF 25 SHEETS DT 306

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