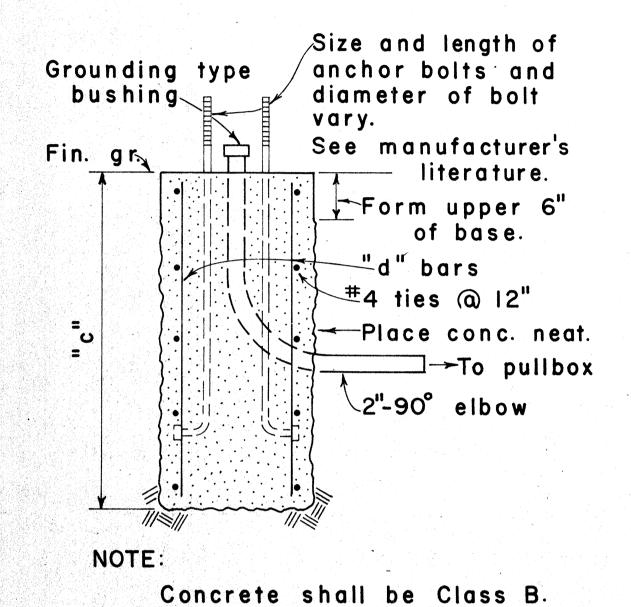


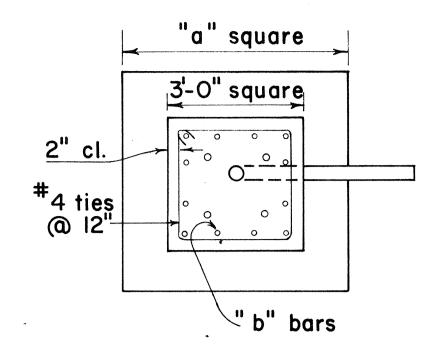
PLAN - SECTION



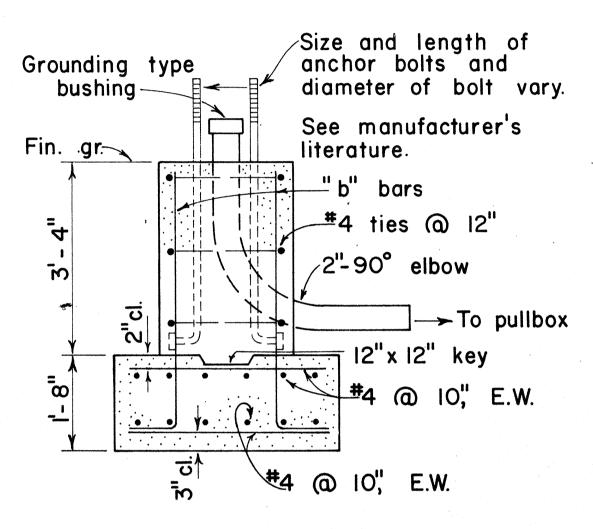
SECTION

MAST ARM LENGTH	"c"	"d" BARS
16' - 18'	5'-0"	12-#6
20'	5'-6"	12- #6
25'	6'-0"	12- #6
30'	6'-6"	12- [#] 6
35 [']	7'-0"	12- # 8
40'	8' - O"	12- * 8

TYPE II



PLAN - SECTION



NOTE:

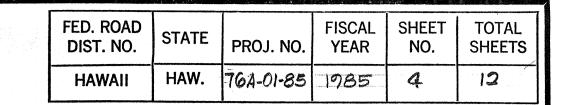
Concrete shall be Class B.

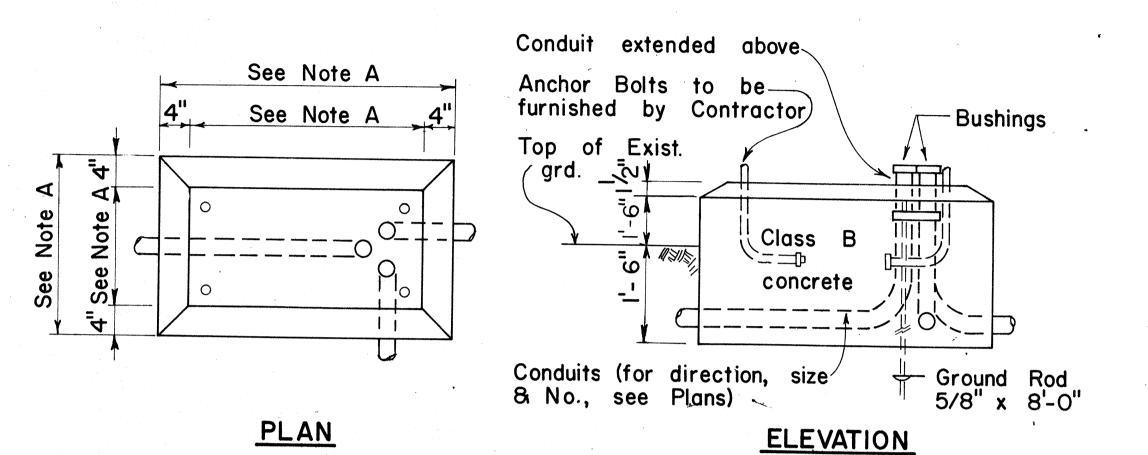
SECTION

	,	
MAST ARM LENGTH	"a"	"b" BARS
16'- 18'	5' - 0"	12-#6
20'	5'-6"	12- #6
25'	6' - 0"	12- # 6
3 0'	6'-6"	12- # 8
35'	6' - 6"	12- # 8
40'	7'-0"	12- # 8

TYPE IIA

FOOTING FOR MAST ARM STANDARD





CONCRETE BASE FOR CONTROLLER CABINET

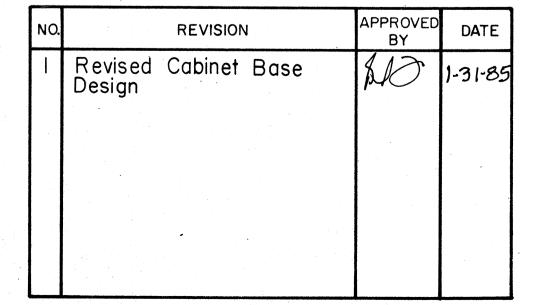
NOTES:

- A. Dimensions to be determined by the size of the Controller Cabinet to be furnished under this Contract.
- B. Details of Conduits, Anchor Bolts, etc., are approximate only. Exact details shall be secured by the Contractor from Manufacturer.



APPROVED:

ASSISTANT CHIEF, ENGINEERING



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

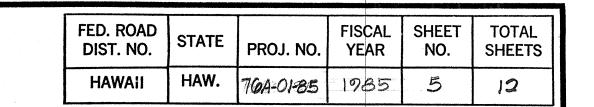
TRAFFIC SIGNAL SYSTEM MISCELLANEOUS DETAILS

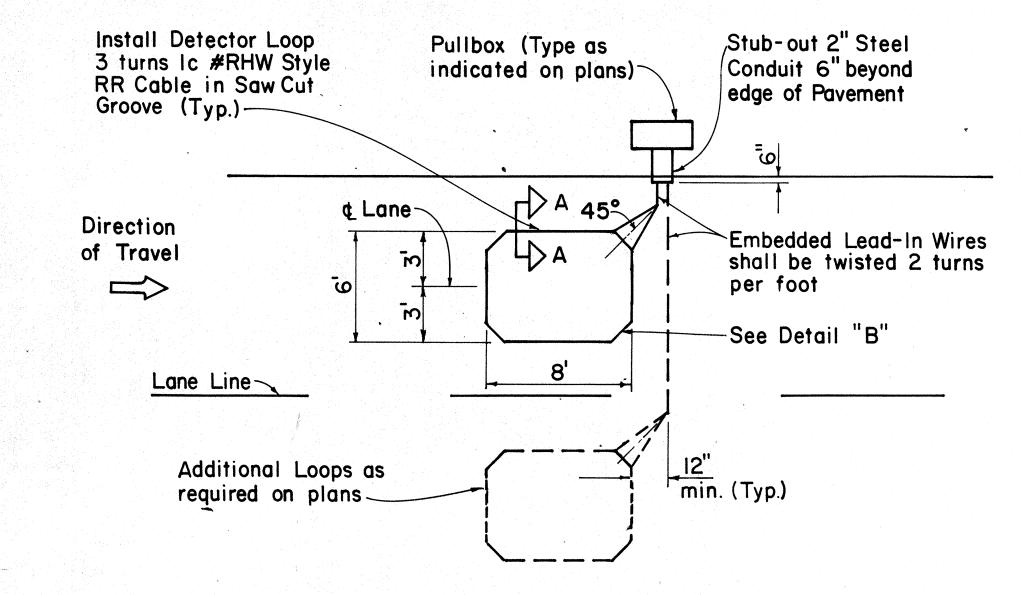
Not to Scale

SHEET NO.T3 OF JI SHEETS DT404

.

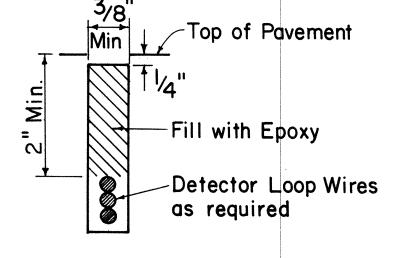
2)





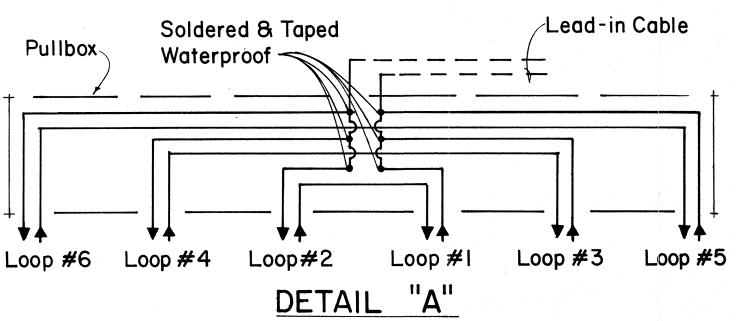
SINGLE LOOP LAYOUT

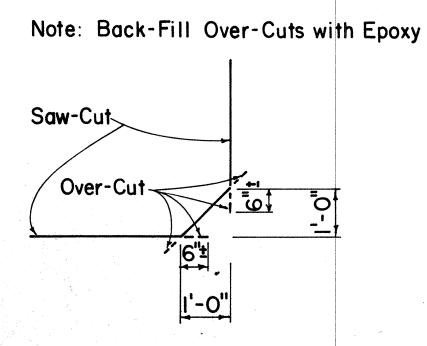
MULTIPLE



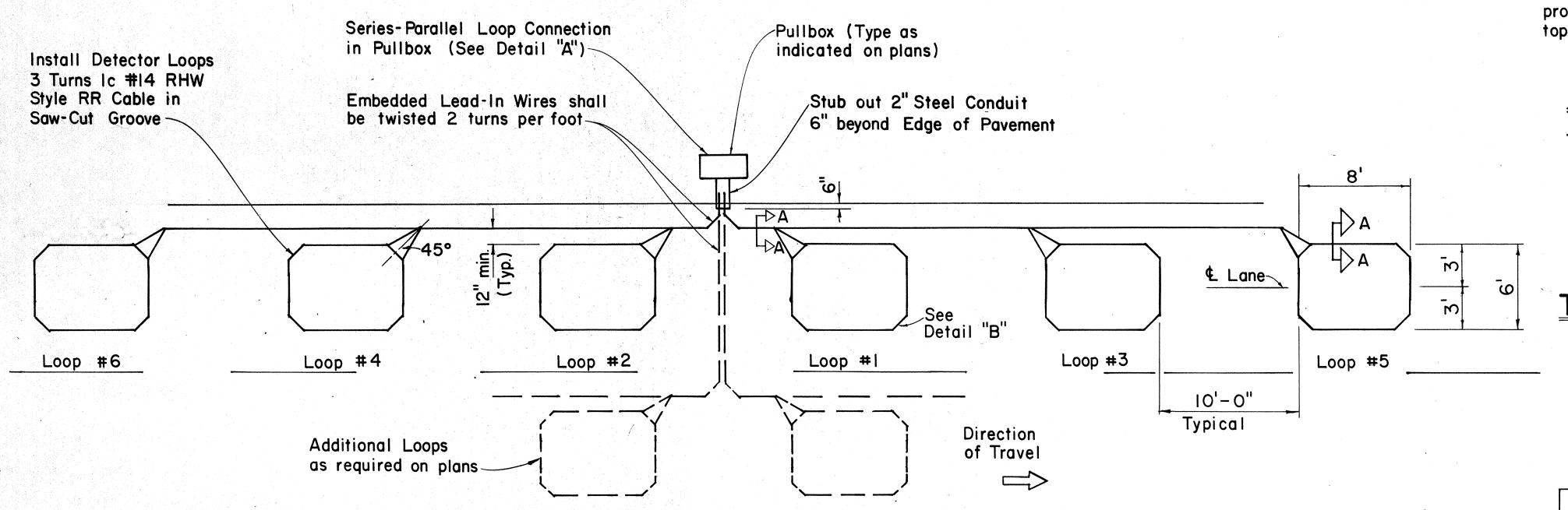
DETECTOR LOOP SAW-CUT

SECTION A-A (TYPICAL)





TYPICAL SERIES-PARALLEL LOOP CONNECTION



LOOP

LAYOUT

Min. Bed Course Materials TYPICAL TRENCH SECTION FOR CONDUIT

NOTE:

I. All conduits under roadways shall be steel or PVC schedule 80. All other conduits shall be steel or PVC schedule 40.

NO.	REVISION	APPROVED BY	DATE
	Replaces Sht. DT 405 dated 3/5/76	H.T.	9/30/80
2	Revised Section A-A	H.I.	5/15/81
3	Revised Loop Design & Deleted Wiring Diagram	MO	2-4-85
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	w.	

al .					
	SAW-	CUT	AT	CORN	ERS

DETAIL "B"

APPROVAL RECOMMENDED:

TRAFFIC ENGINEER

9/26/80 DATE

> 9/30/80 DATE

APPROVED:

ASSISTANT CHIEF, ENGINEERING

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS

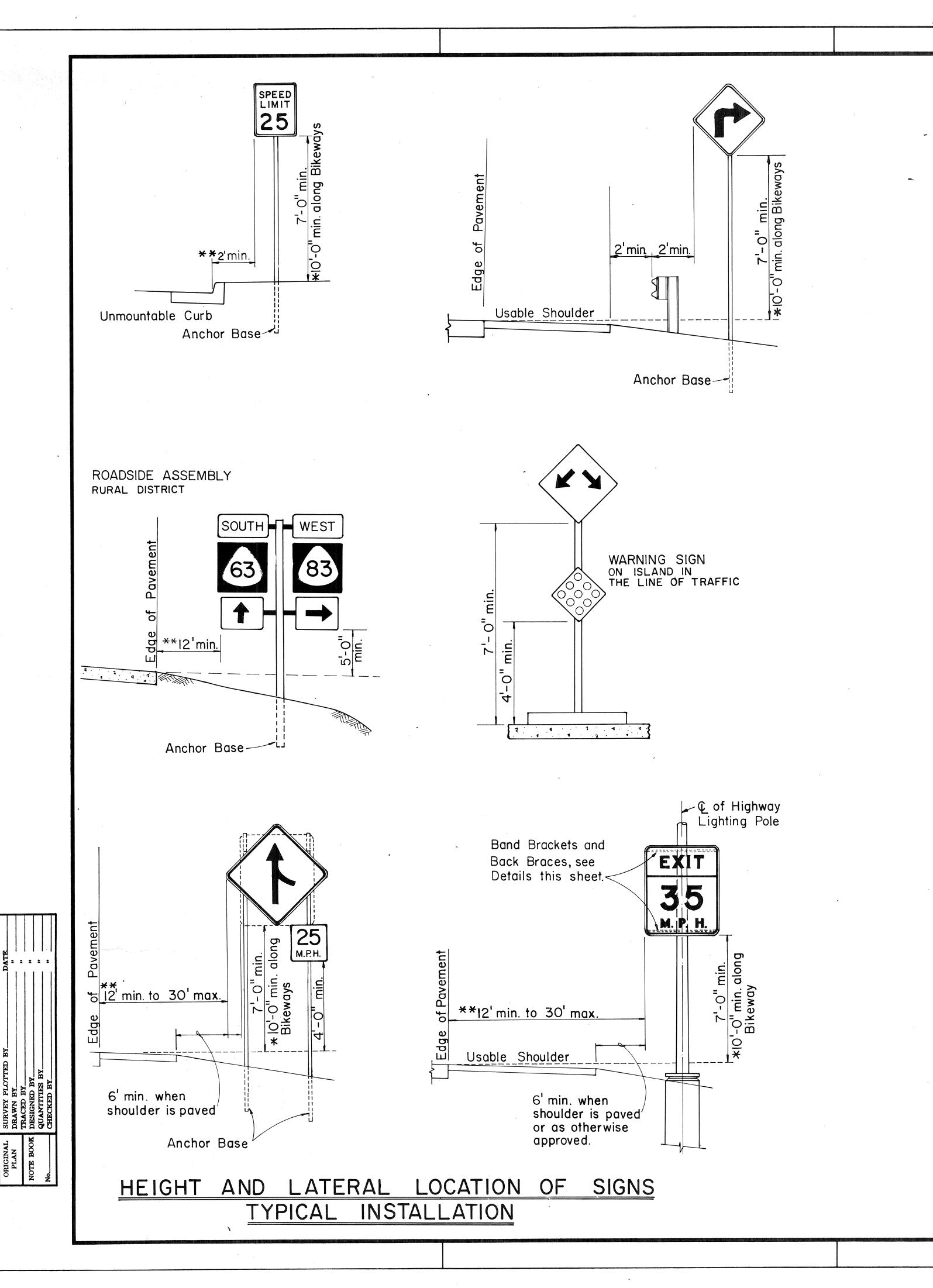
LOOP DETECTORS

Not to Scale

SHEET NO.T4 OF || SHEETS DT 405

ORIGINAL S
PLAN D
T
NOTE BOOK D

5



Galv. sq. tube post or flanged channel post with 3/8" ø bolt holes drilled at appropriate locations. Sign plate

> GALVANIZED SQUARE TUBE OR FLANGED CHANNEL POST

Lock Washer

5/16" ø x 3" galv. bolt,

nut, lock washer &

steel flat washer

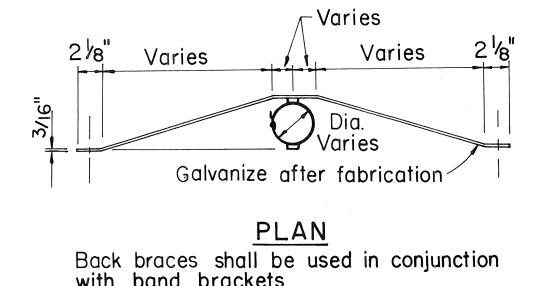
7/8" x 0.06" stainless. 1

with neoprene rubber

FED. ROAD DIST. NO. FISCAL SHEET YEAR NO. STATE PROJ. NO. SHEETS HAWAII 76A-01-85 1985 G 12

GENERAL NOTES

- Signs shall be placed in conformance with positions shown and described in the 'Manual on Uniform Traffic Control Devices for Streets and Highways", 1978, Part II, Section 2A-21, as amended, and as supplemented herein.
- 2. Sign 48" and wider or larger than 10 sq. ft. in area shall be mounted on two or more sign posts except as noted below.
- 3. Signs 48" and wider or larger than 10 sq. ft. in area may be mounted on objects other than sign posts (i.e. on highway lighting poles) as follows:
- a. Signs 48" and wider but less than 10 sq. ft. in area shall be mounted with a minimum of two sets of band bracket and back braces. b. Signs larger than 10 sq. ft. and less than 28 sq. ft. in area shall be mounted
- with a minimum of two sets of band brackets and back braces. c. Signs larger than 28 sq. ft. in area shall be mounted with a minimum of three
- sets of band bracket and back braces. 4. All parking restriction signs with arrows shall be mounted 45° to the line of traffic
- flow. 5. Sign posts shall extend $3\frac{1}{2}$ " above each sign, where required, for attachment of City and County street name signs.
- 6. (R) or (L) indicates right or left and shown on the plans.
- * 7. See plans for special details of signs along bikeways.
- $\star\star$ 8. The minimum lateral distances shown are guidelines and shall be exceeded when ever possible. The Contractor shall place signs at the maximum practical lateral distance from the edge of the traveled way up to 30 feet and shall utilize protected locations whenever possible. Final locations of all signs shall be approved by the Engineer.
 - 9. Signs in medians shall be placed at midpoint of median up to a maximum distance of 30 feet from the edge of traveled way. When appropriate, signs for opposing directions shall be placed back to back.
 - 10. Anchor bases shall be installed for all signpost installations, unless otherwise shown or directed. See sheets DT 100A and DT 100B.



with band brackets Varies 1"x 3/16" strap steel $+ \bullet +$ 3/8" x 13/4" slot ELEVATION

TYPICAL

BACK BRACE

MOUNTING DETAILS

approved 11/15/77

REVISION

Supercedes Sht. DT 100

Additional. Required for bidirectional ⁵/16" galv. screw, nut and lock washer mounting or when used in conjunction with band brackets. 1/16" thick \galv. clamp 18 gage stain-less steel band

LEFT SIDE VIEW

DATE

10-18-83

BAND BRACKET

APPROVAL RECOMMENDED Eichi Tanaka TRAFFIC ENGINEER

APPROYED: I Dijiyama ASSISTANT CHIEF, ENGINEERING

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

STANDARD DETAILS

PLAN

MISCELLANEOUS SIGN DETAILS

Not to Scale:

Oct. 1983 SHEETS DT 100 SHEET NO.T5 OF 11

10/14/83 DATE

10-18-83 DATE



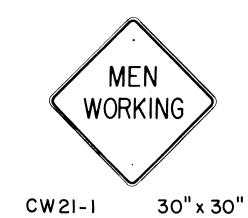














48" x 48" CW20-1a

CW20-2d 48"x48"

48" x 48" CW20-3b

CW20-4d 48"x48"

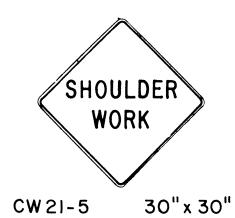
48"x 48" CW20-5d(L)

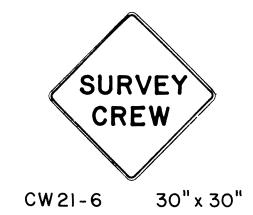
CW20-7c 48"x 48"

30"x 30" CW21-2

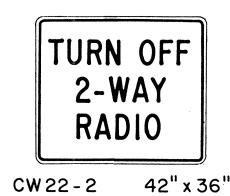


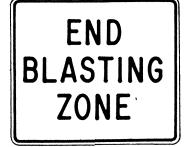














CW 22-3 42" x 36"

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

END CONSTRUCTION

60" x 24"

CG 20-2

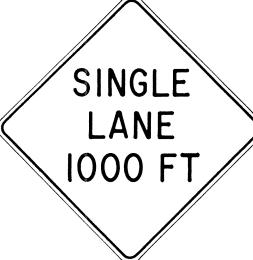








CW23-1





CW 23 - 2b 48" x 48"

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

GENERAL NOTES

- I. 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.
- 2. All construction signs shall be reflectorized.
- 3. All construction signs shall have $\frac{3}{8}$ " bolt holes drilled at appropriate locations.
- 4. Numerals in () indicates numerals to be inserted for sign message. (R) or (L) indicates right or left.
- 5. 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.

APPROVAL BECOMMENDED: Euchi makes
TRAFFIC ENGINEER

3/21/72 DATE

APPROVED:

3/23/12 ASSISTANT CHIEF, ENGINEERING DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

STANDARD DETAILS

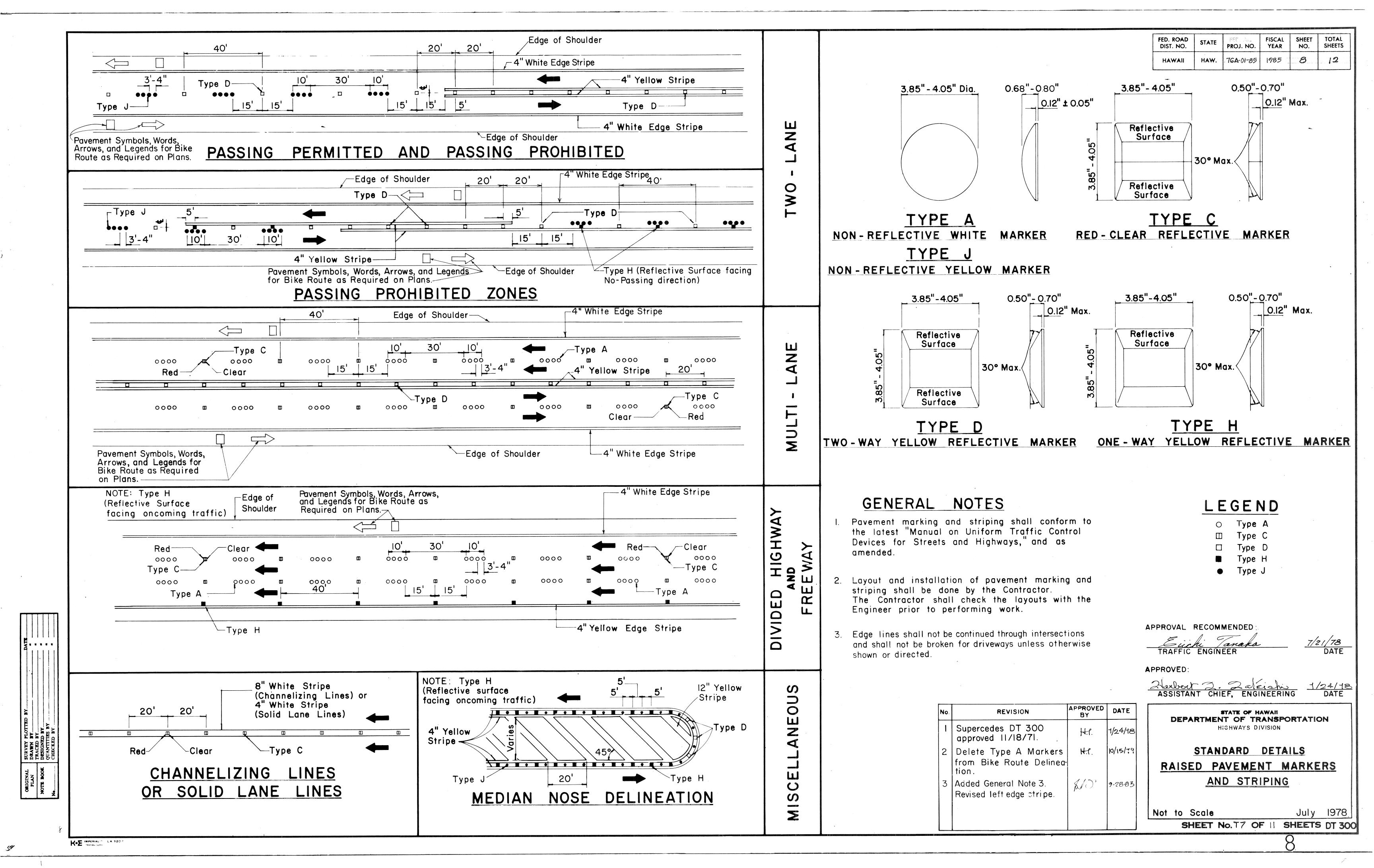
CONSTRUCTION SIGNS

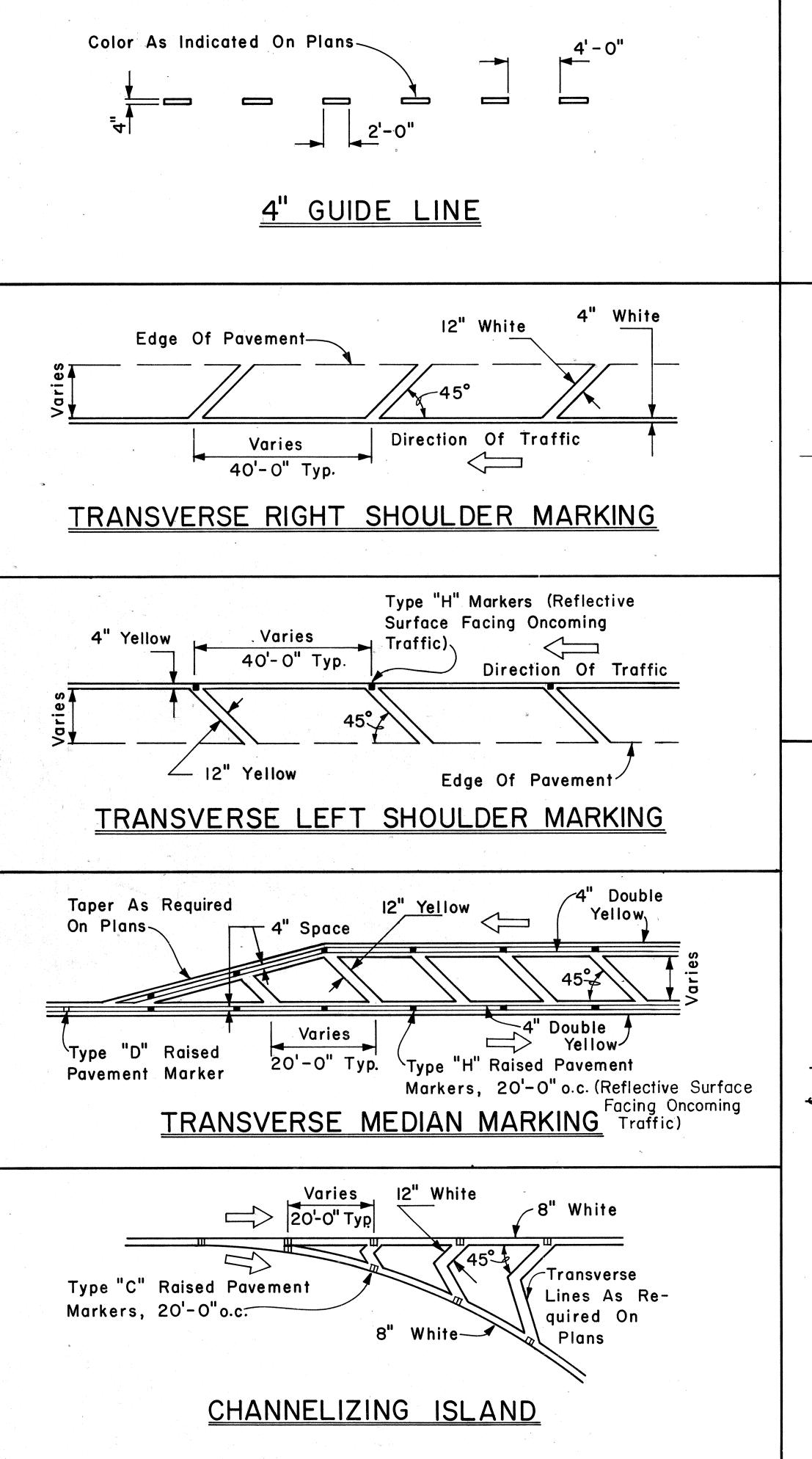
NOT TO SCALE

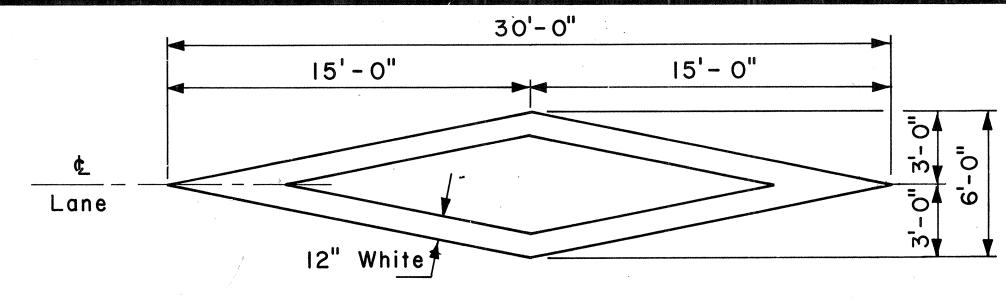
<u> </u>					
DATE	z	r	z	8	3
VEV PLOTTED BY	WW BY	CED BY	IGNED BY	NITTIES BY	CKED BY

SURV DRAY TEAC DEST QUAN

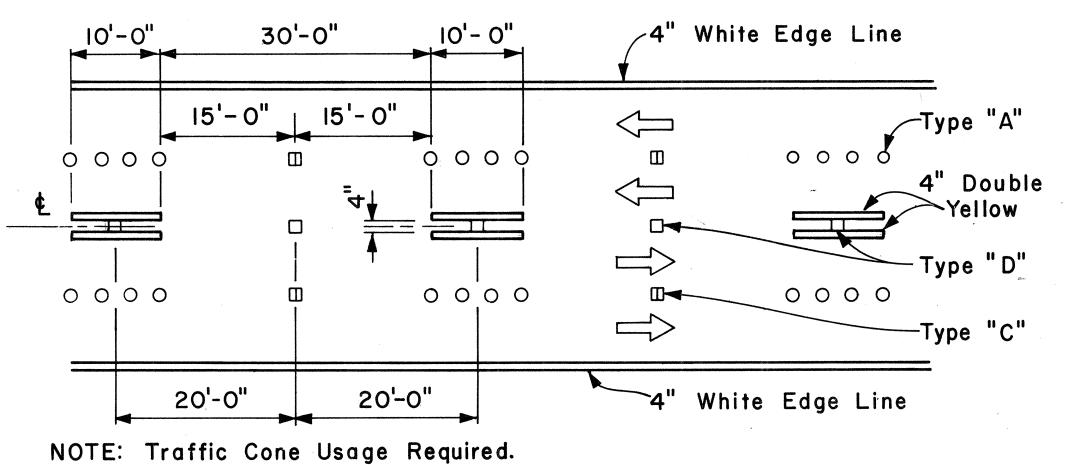
APPROVED DATE REVISION Supersedes Sht. DT 104 Approved 12-30-69 H.T. 3/23/72 2 Revised General Note I H. . 10/16/14 3 Revised General Note 2 9-16-75 4 Revised General Note 2 and sign CG20-1(5) H.P. 9-14-76



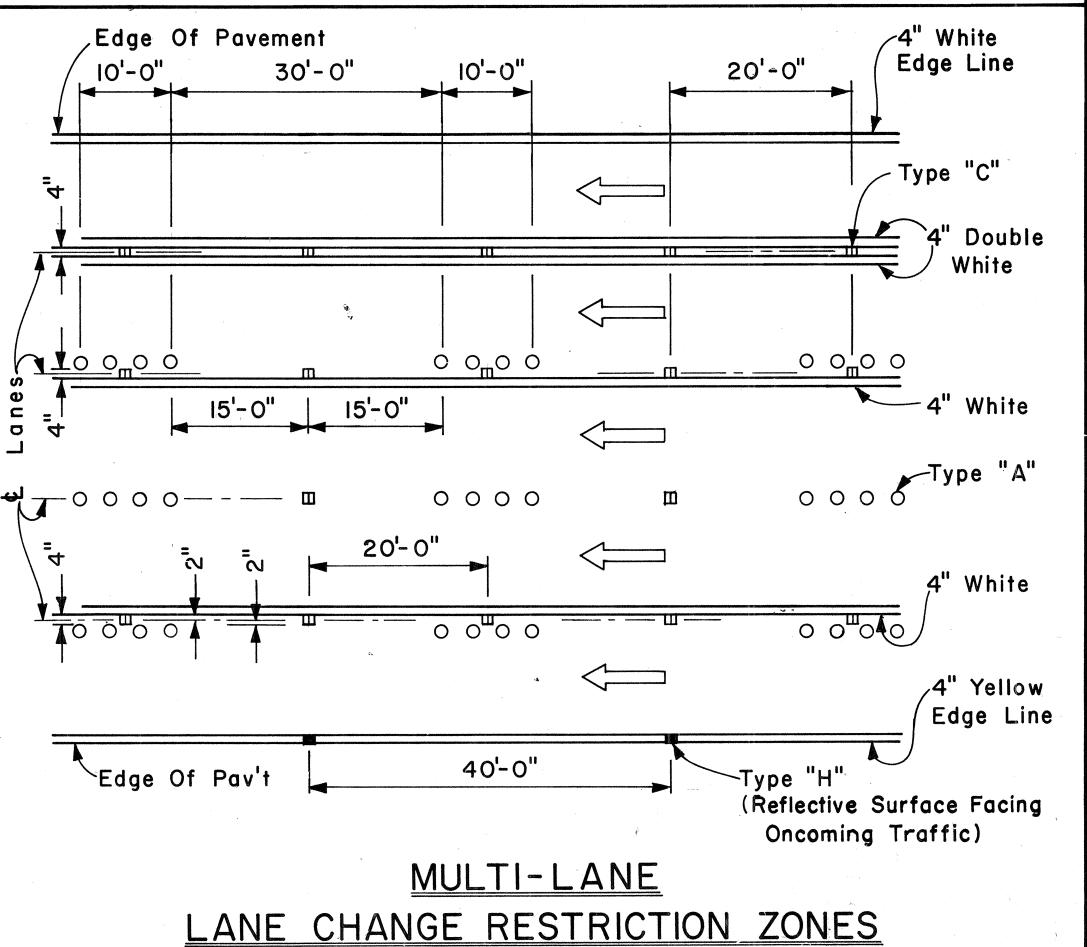


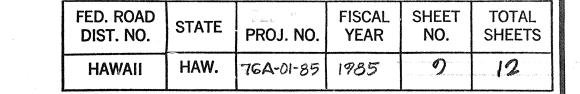


PAVEMENT DIAMOND



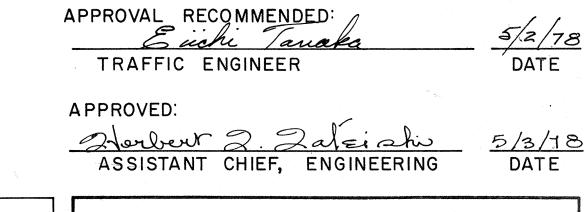
MULTI-LANE REVERSIBLE LANES

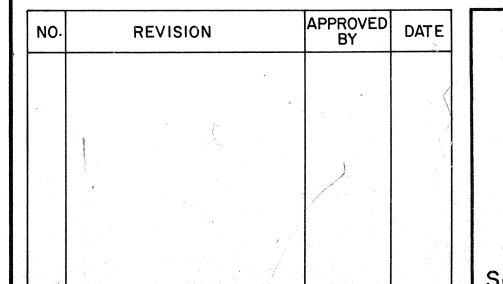




GENERAL NOTES:

- 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.





DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAILS

MISCELLANEOUS
PAVEMENT MARKINGS

Scale: Not to Scale Date: April, 1978

SHEET NO.TO OF 11 SHEETS DT 302

9

