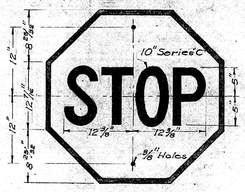
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	S-0144(2)	1961	6	11

White Letters and Border on Red Background. Background shall be of red reflective sheeting. Letters to be reflected with white reflective sheeting.

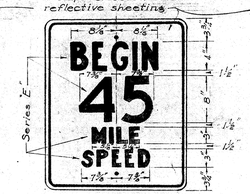


R-1
30" x 30"
Red Letters & Border on White Background

Black letters on white Background

R-102-C
24" x 30"

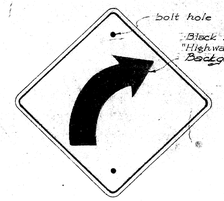
Fully reflected with reflective sheeting



R-105-C
24" x 30"

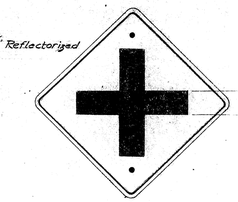
R-104-C
24" x 30"

R-105-D
24" x 30"

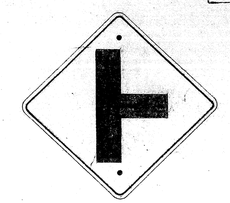


Black Arrow on "Highway Yellow" Reflectorized Background.

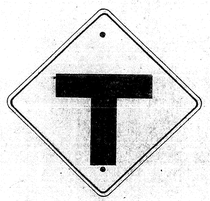
W-2-R
* W-2-L
24" x 24"



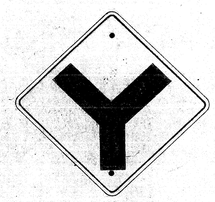
W-6
24" x 24"



W-7
24" x 24"



W-9
24" x 24"



W-10
24" x 24"

W-13
24" x 24"

W-19
30" x 30"

W-39
24" x 24"

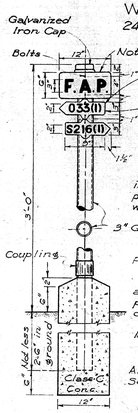
Notes: Unless otherwise Specified, all signs shall conform with requirements of "Manual on Uniform Traffic Control Devices for Streets and Highways."

All letters and figures shall be of size and design shown and shall conform with "Standard Alphabets for Highway Signs" as set forth by the Public Roads Administration Federal Works Agency Series "C" letters and Series "D" numerals shall be used except where noted.

All Regulatory signs shall have black letters on a white background except where noted. All warning (W) signs shall have black letters or figures on a "Highway Yellow" background.

* Signs shall be similar but opposite in direction.

See Specifications for Materials and Finish.



Note: This sign is always F.A.P.

This shall include special letter prefixes as ordered by the Engineer.

Lettering as required.

6 Holes for 9/16" ϕ Bolts to be drilled in every post.

ARRANGEMENT OF MARKERS

One F.A.P. Marker and one plate shall be placed at the beginning and end of each isolated F.A. Project. Where two F.A. Projects adjoin, a single marker and two Number plates shall be placed, each Number plate pointing in the direction of the project to which it refers.

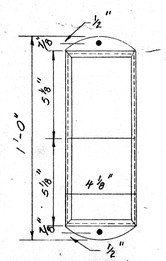
Post in place, complete with one F.A.P. Marker plate and its respective Number plate will be paid for as one Item. Each additional Number plate will be paid for separately.

Markers and Number plates shall be No 16 Ga. galvanized iron with 9/16" ϕ holes for fastening as shown on sketch. Markers and Number plates shall be given one coat of best Chromate primer and two coats of White Marine Enamel. Before painting they shall be given a wash of 8 ounces of Copper Sulfate in one gallon of water. The lettering shall be of two coats of Black Marine Enamel. Markers and plates shall be fastened with 3/8" ϕ galvanized bolts and washers in addition to lead washers for both sides of each plate.

All letters and figures shall be of size and design shown and shall conform with Standard Alphabets for Highway signs as set forth by the Public Roads Administration Federal Works Agency Series "C" letters and Series "D" numerals shall be used except where noted.

FEDERAL AID MARKER
Not to scale

Background may be made of Yellow Reflective Sheeting.



D-43-A
(For Delineators)

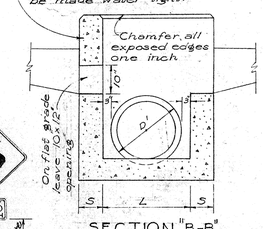
DATA - CONC. DROP INTAKE					Where Variable Equals
D'	D	L=D'+6"	S	Cu Yds	
23"	18"	2'-5"	8"	1.41	4'-6"
30"	24"	3'-0"	8"	1.72	5'-0"
37"	30"	3'-7"	9"	2.32	5'-6"
44"	36"	4'-2"	9"	2.73	6'-0"
51"	42"	4'-9"	10"	3.54	6'-6"
58"	48"	5'-4"	10"	4.01	7'-0"

Note: Dimension "X" is assumed as 2'-4" in figuring the above quantities.

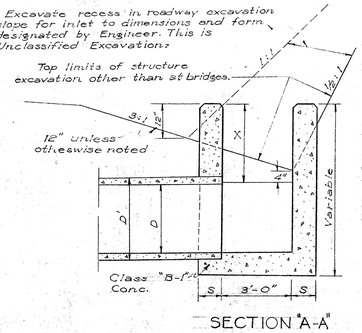
Note: This type of structure shall also be used for the Drop Intakes of Syphons connected with Irrigation Ditches or Flumes with appropriate changes to dimensions. In this case all joints must be made water tight.

Excavate recess in roadway excavation slope for inlet to dimensions and form designated by Engineer. This is Unclassified Excavation.

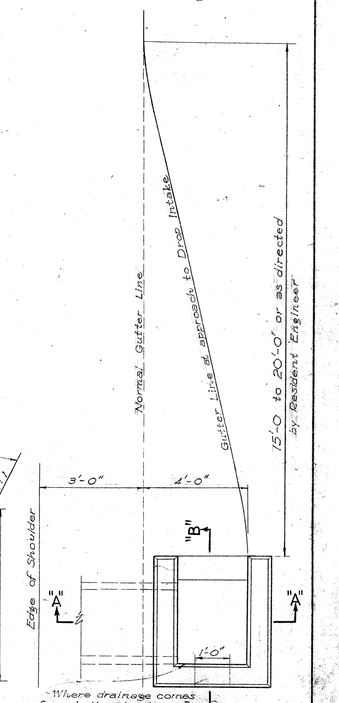
Top limits of structure excavation other than at bridges.



SECTION "B-B"



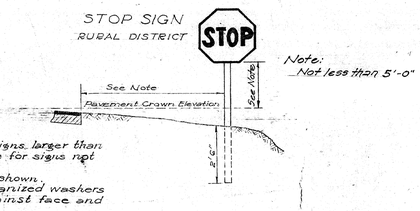
SECTION "A-A"



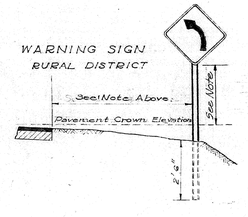
PLAN

DETAIL OF CONCRETE DROP INTAKE
Scale: 1/2" = 1'-0"

Note: All signs shall be placed 10' from the edge of pavement except where shoulder width is less than 10', in which case signs shall be placed at edge of shoulder.



Note: Not less than 5'-0"



Note: Not less than 5'-0"

Note: Not less than 5'-0"

Note: Sign Posts shall be 3" galv. std. pipe for signs larger than 24" in any dimension and 2" galv. std. pipe for signs not over 24" in any dimension.

Two (2) 7/16" ϕ bolt holes drilled at location shown.

Two (2) 9/16" ϕ bolt holes with 20 gage galvanized washers with neoprene rubber gasket attached against face and back of sign.

HEIGHT AND LATERAL LOCATION OF SIGNS - TYPICAL INSTALLATION

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STATE OF HAWAII

MISCELLANEOUS DETAILS
HAWAII NATIONAL PARK BY-PASS ROAD
PROJ. No. S-0144(2)

SCALES AS NOTED

S0144(2).6