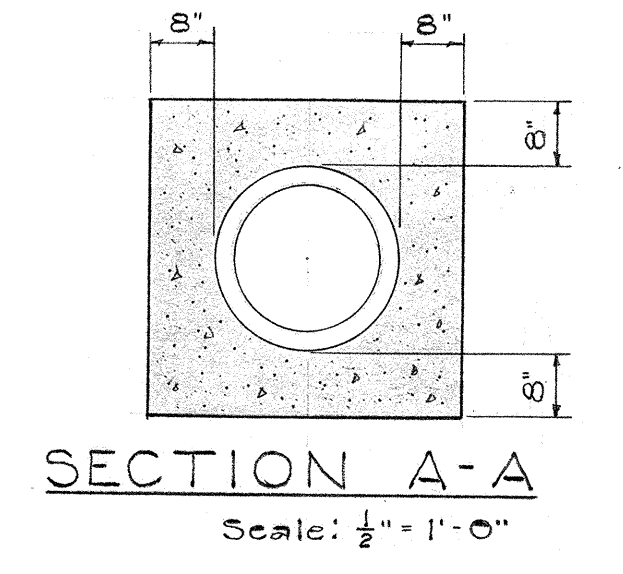
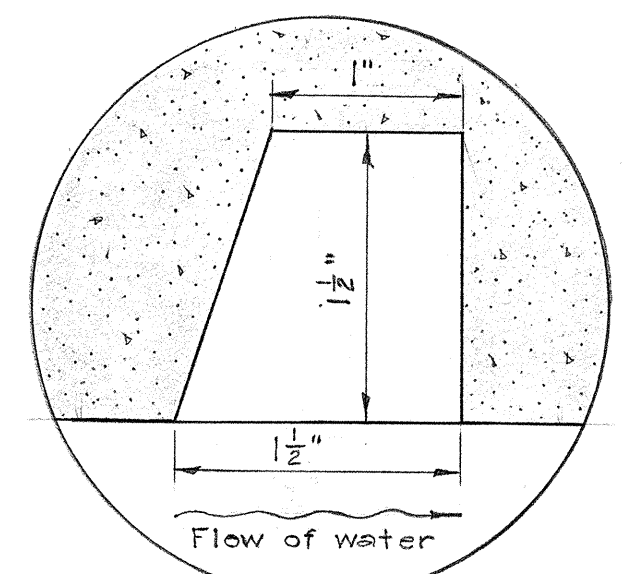
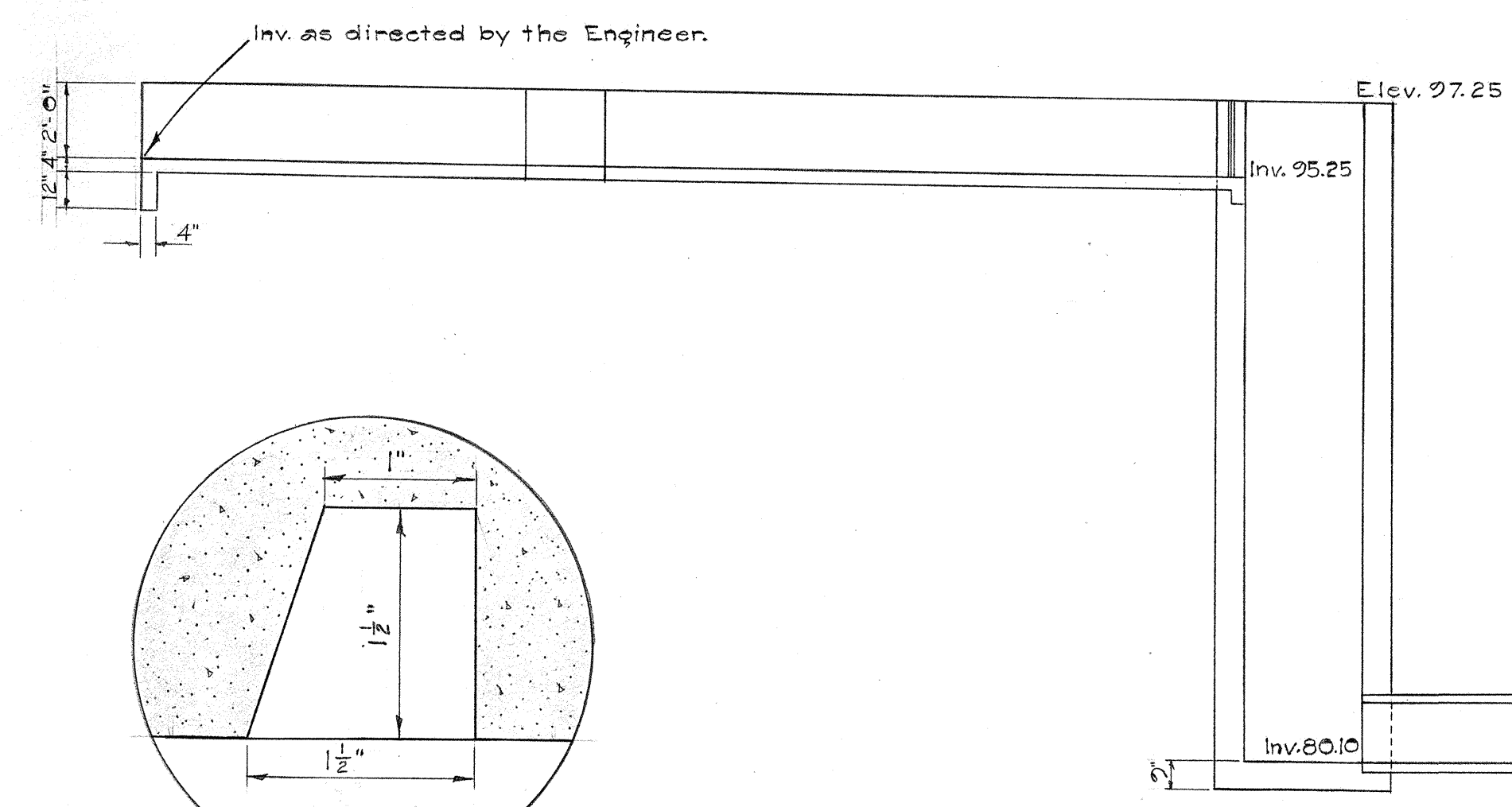
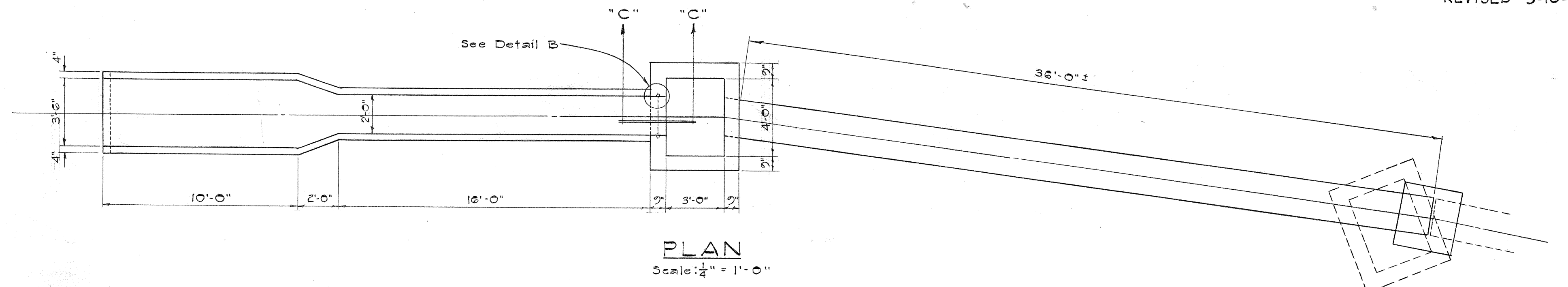
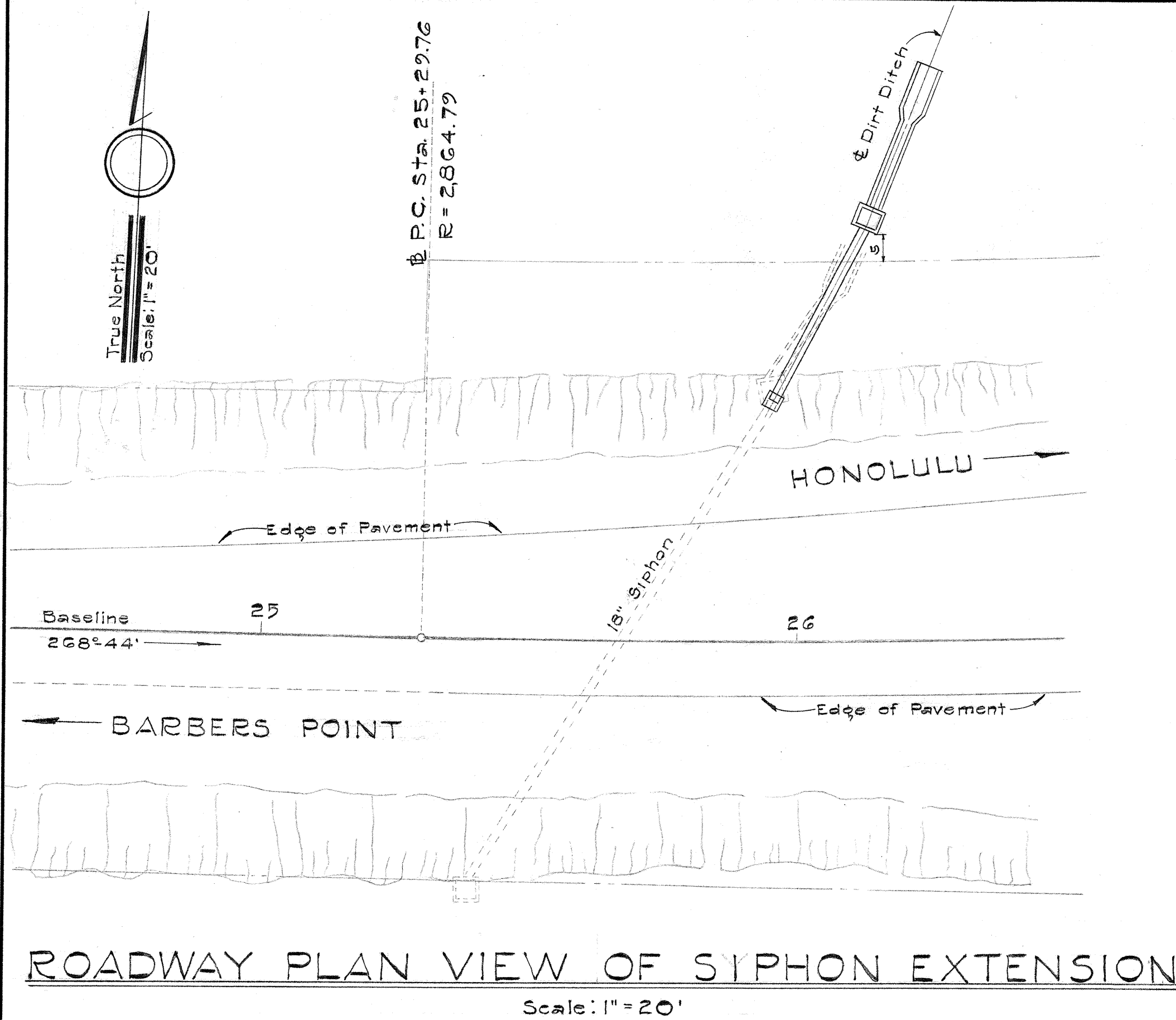
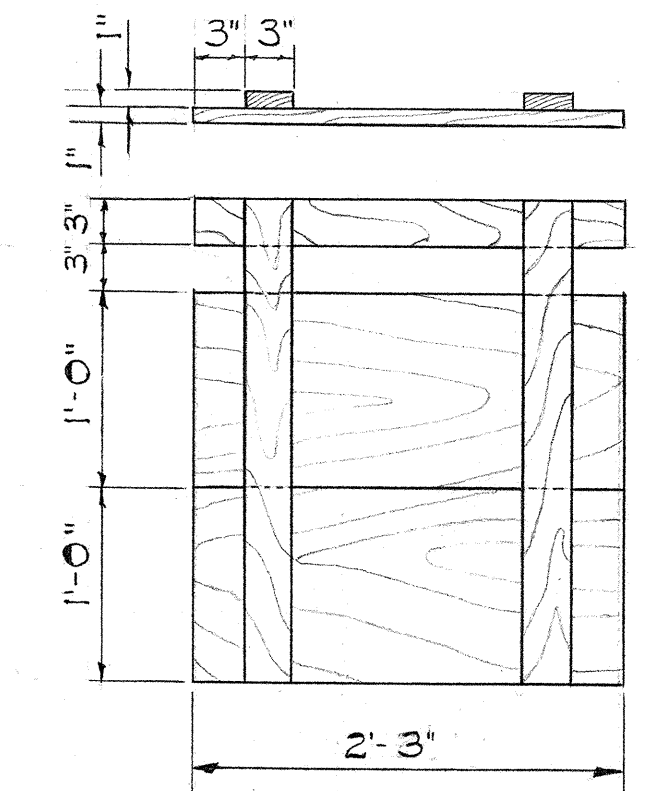
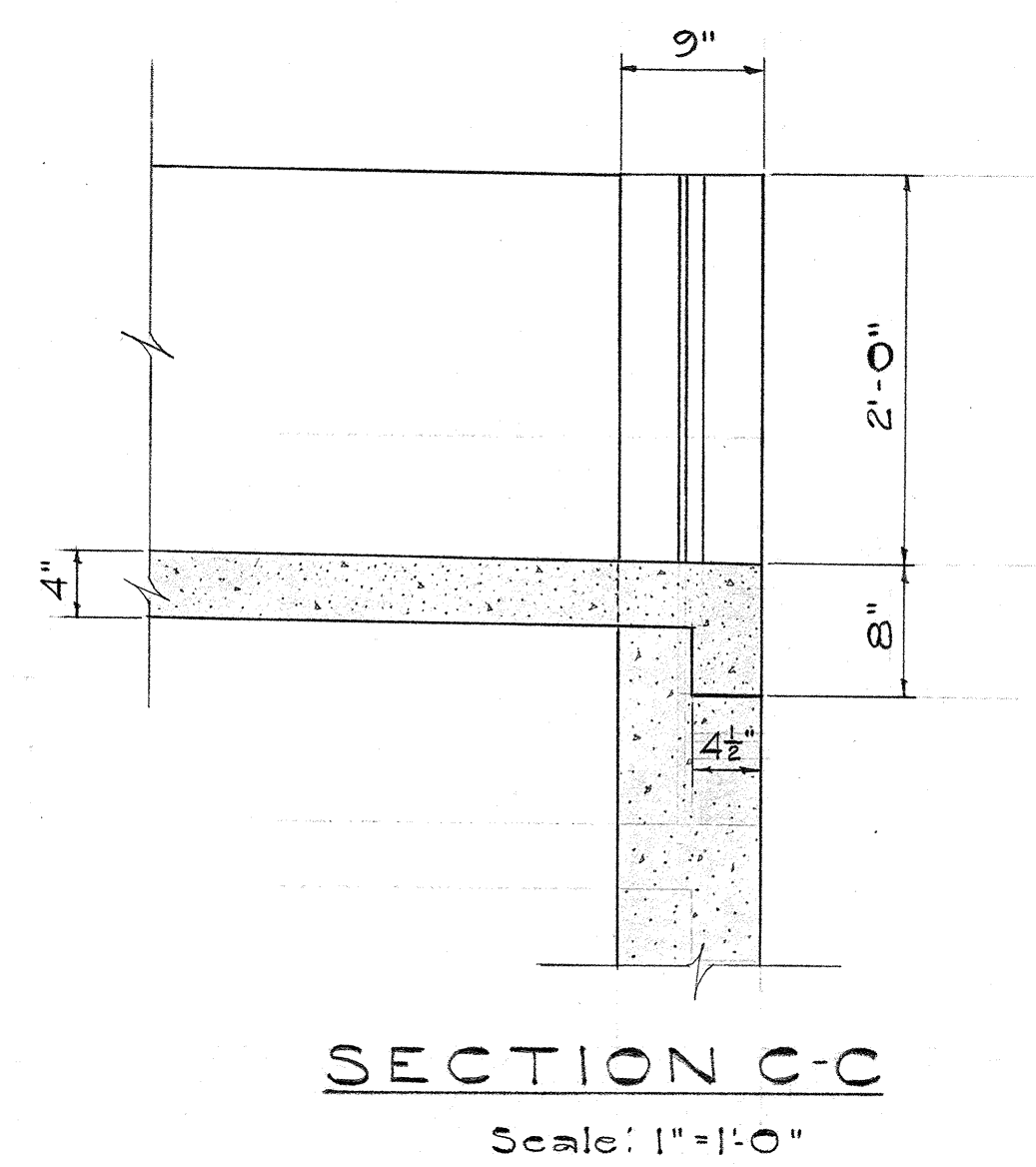




SIPHON DETAIL AT STA. 26+15

REMOVED
3-10-64

Removing existing Siphon Box below that which is required by Section 11, shall be paid for under item 14 (1) Struc. Exc. other than in Bridges.



Note:

- All concrete used shall be Class 'A-1'.
- Redwood gate shall be constructed with 540 Lumber and galvanized nails and shall be considered as incidental to Class 'A-1' concrete.

APPROXIMATE QUANTITIES

37 - 40	lin. ft.	18" Reinforced Concrete Pressure Pipe
25 - 30	cu. yd.	Class A-1 Concrete for Siphon Box
25 - 30	cu. yd.	Class A-1 Concrete for Apron
115 - 140	cu. yd.	Structure excavation.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIPHON DETAILS
AT STA. 26+15

FARRINGTON HIGHWAY
PROJECT NO. F-000-1(8)

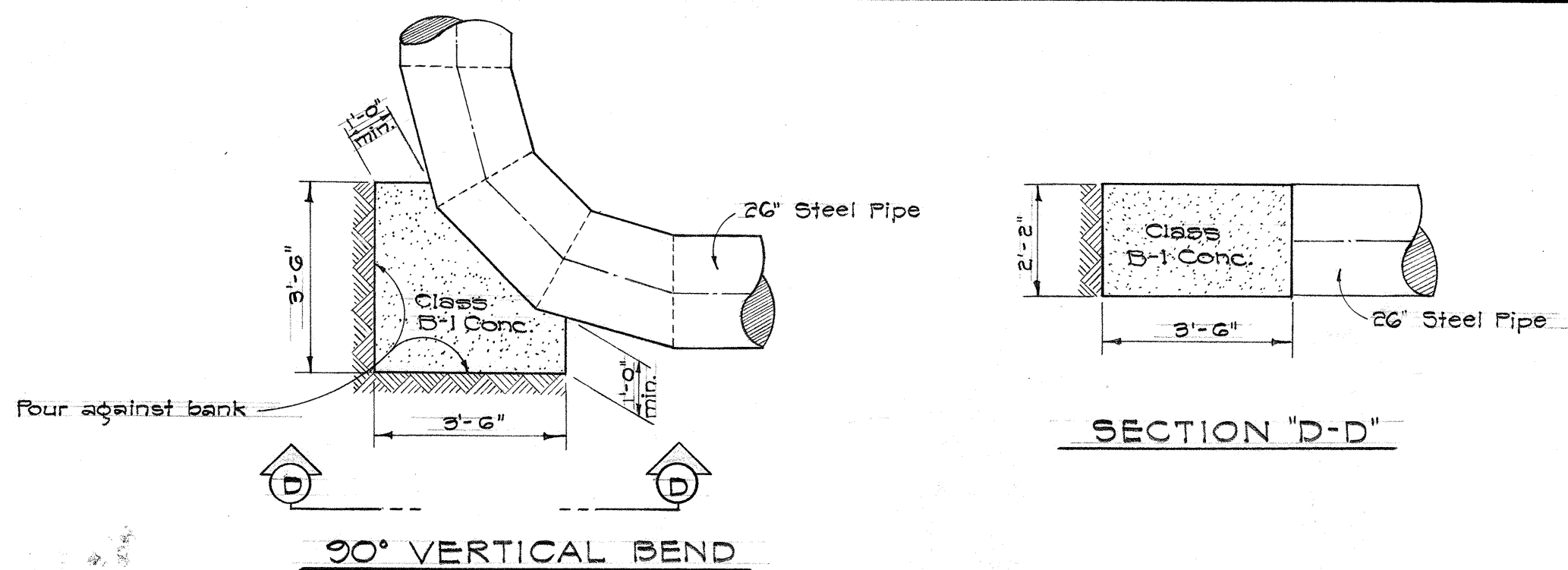
Scale: As Noted Date: SEPT. 1962

SHEET No. 2 OF 5 SHEETS

ORIGINAL PLAN	DATE
NOTED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

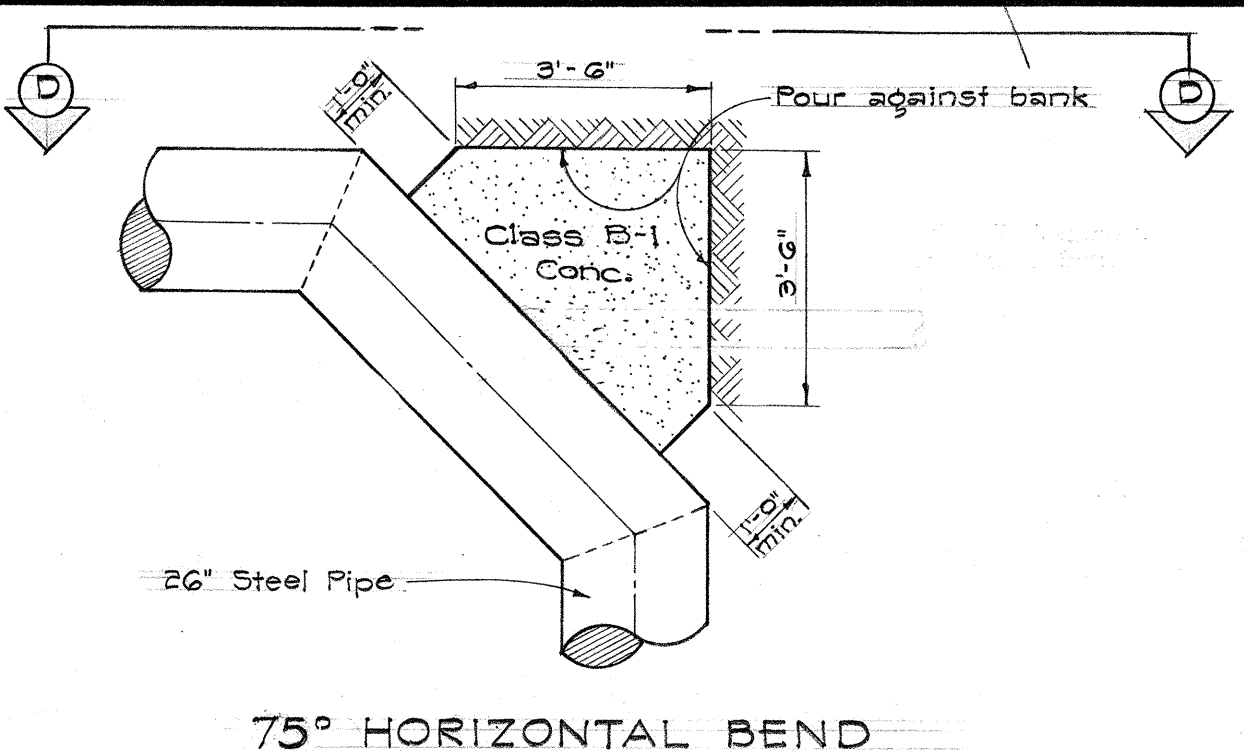
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F-020-1(8)	1963	11	53

Corrected 3/8/62



SECTION "D-D"

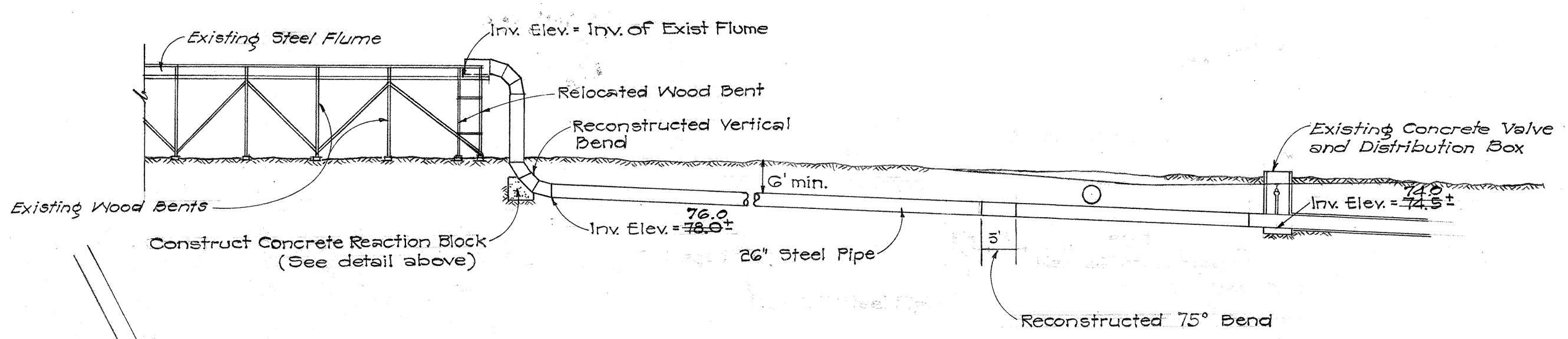
90° VERTICAL BEND



75° HORIZONTAL BEND

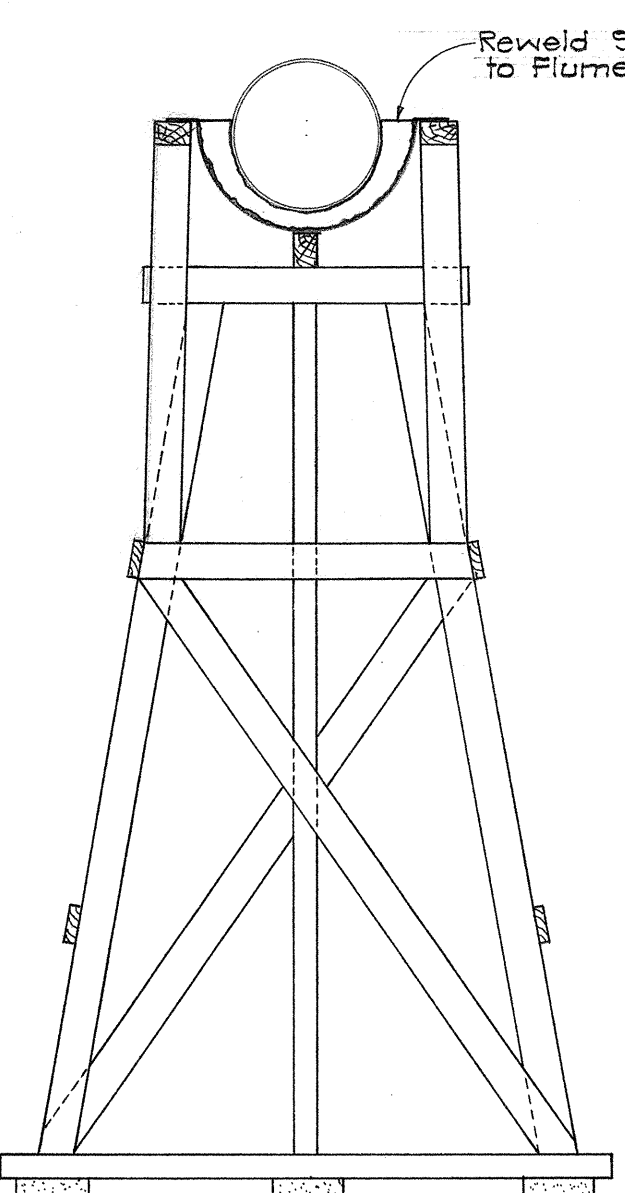
DETAIL OF CONCRETE REACTION BLOCK

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



ELEVATION ALONG CL OF RELOCATED 26" PIPE

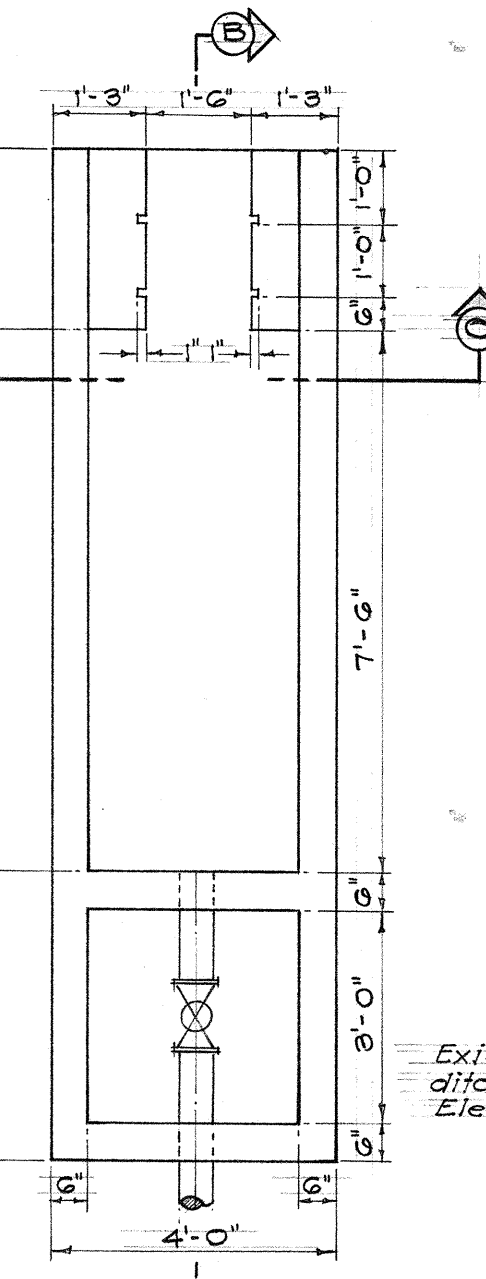
Scale: 1/4" = 1'-0"



SECTION "A-A"

DETAIL OF WOOD BENT TO BE RELOCATED

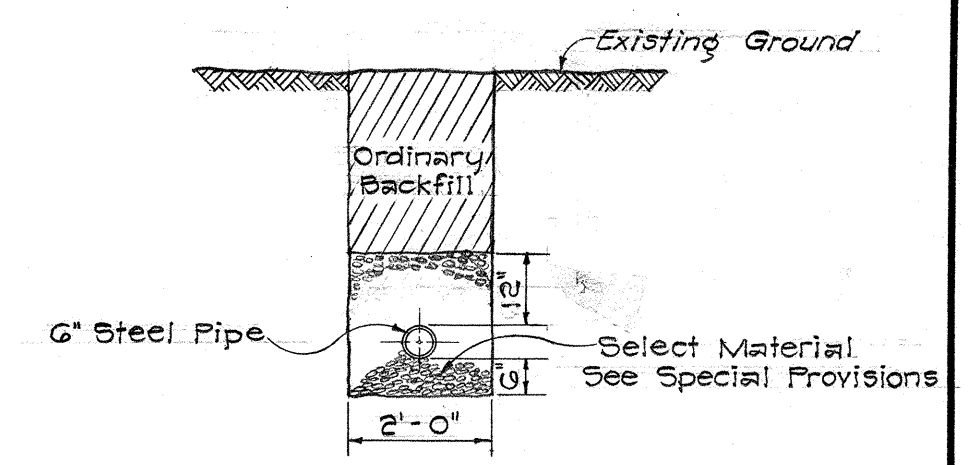
Scale: 3/8" = 1'-0"



PLAN

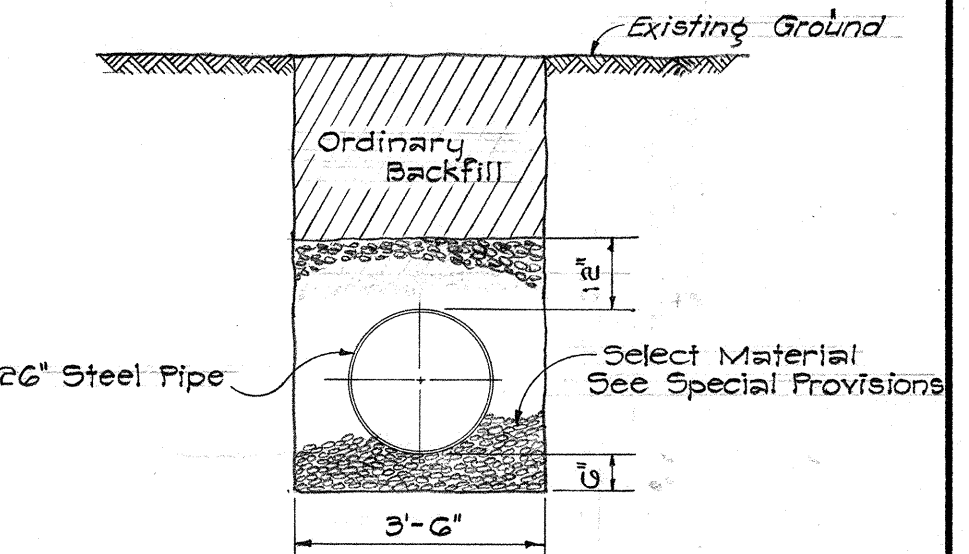
G" VALVE AND DISTRIBUTION BOX DETAIL

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



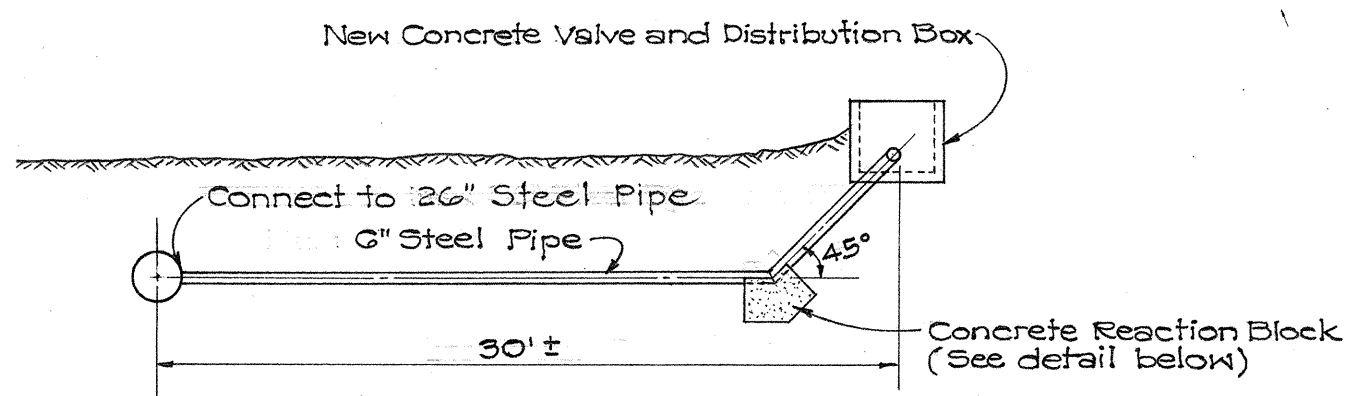
TYPICAL TRENCH DETAIL FOR 6" STEEL PIPE

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



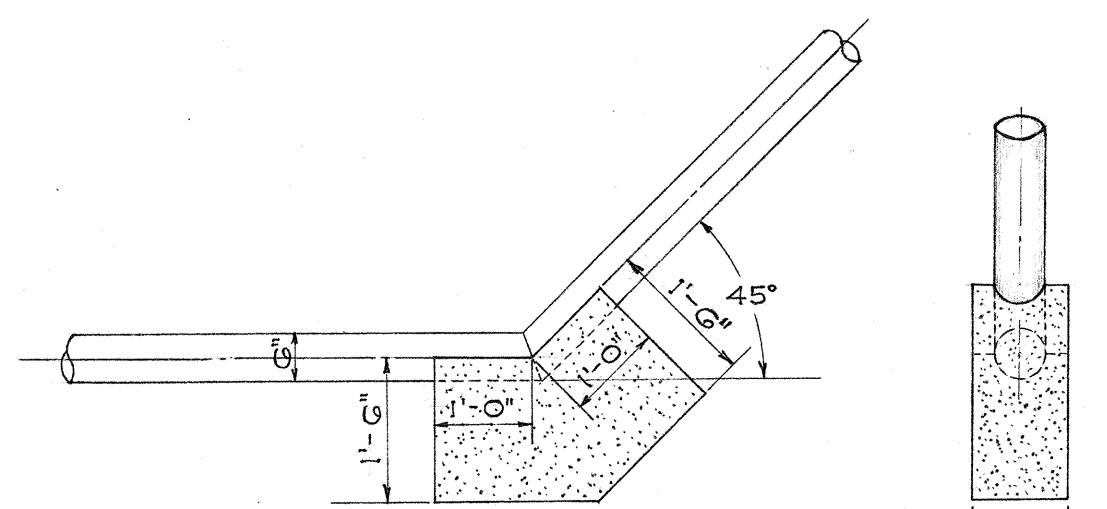
TYPICAL TRENCH DETAIL FOR 26" STEEL PIPE

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



ELEVATION ALONG CL OF 6" PIPE

Scale: 1/8" = 1'-0"

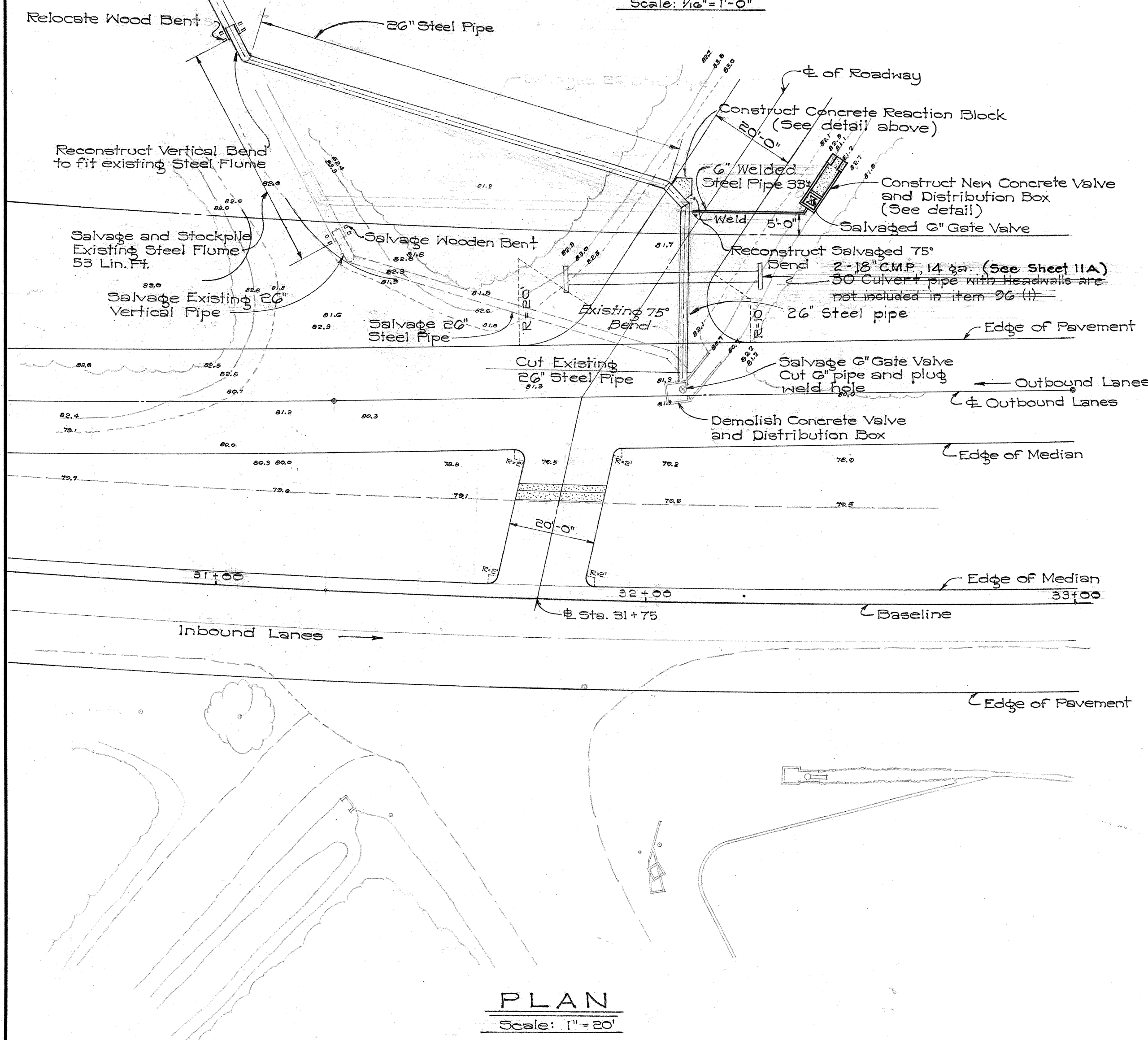


FRONT VIEW

SIDE VIEW

DETAIL OF CONCRETE REACTION BLOCK FOR 6" STEEL PIPE

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



PLAN

Scale: 1" = 20'

DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STATE OF HAWAII

DETAIL OF EWA PLANTATION
IRRIGATION LINE RELOCATION

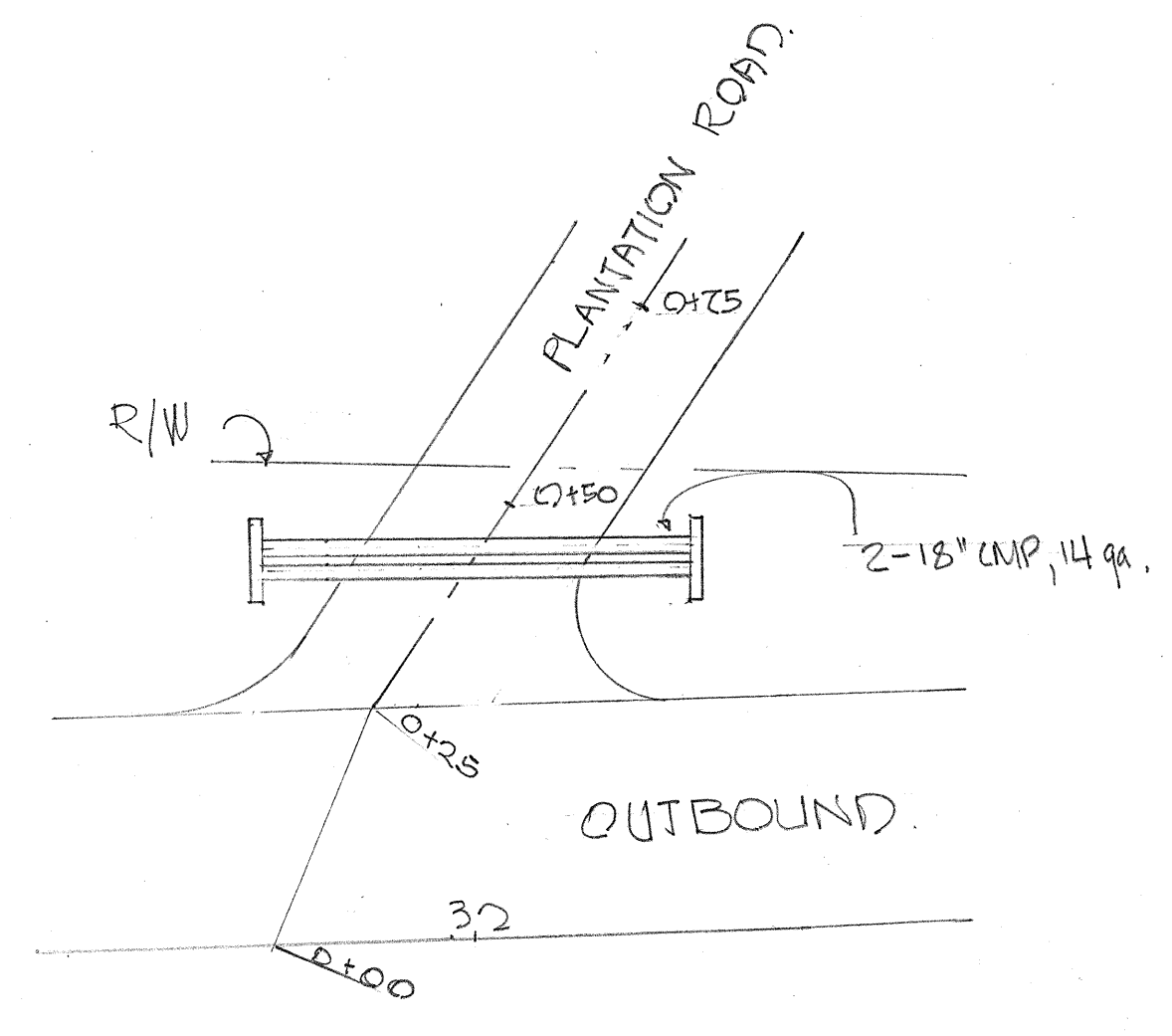
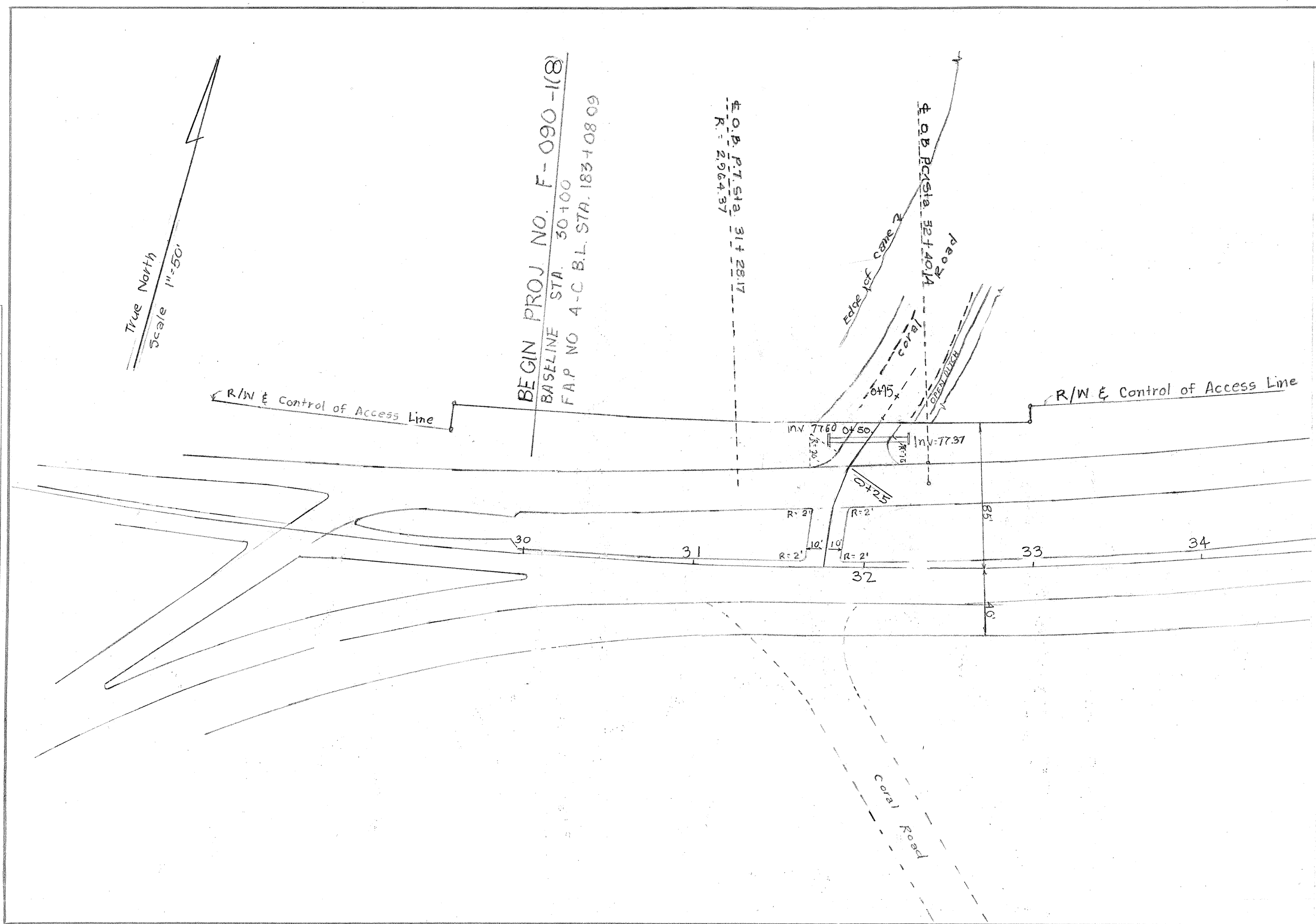
PROJECT NO. F-020-1(8)

Scale: As Noted

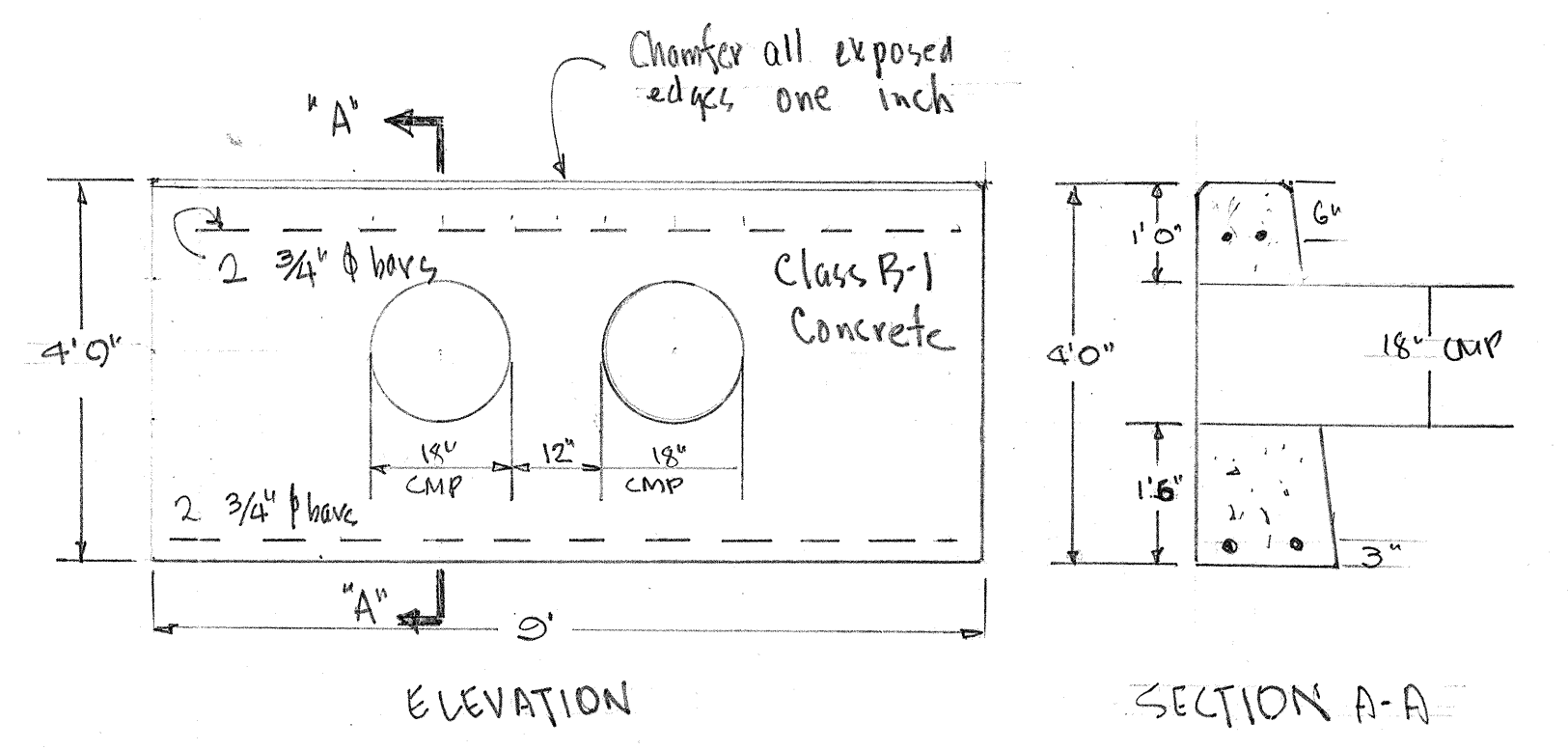
PLAN
SURVEYED BY DATE
NOTE BOOK NO. GRADES CHECKED
RT. OF WAY CHECKED

PROFILE
SURVEYED BY DATE
NOTE BOOK NO. GRADES CHECKED
STRUCTURE NOTATION CHVD

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	F-090-1(8)	1963	11A	53

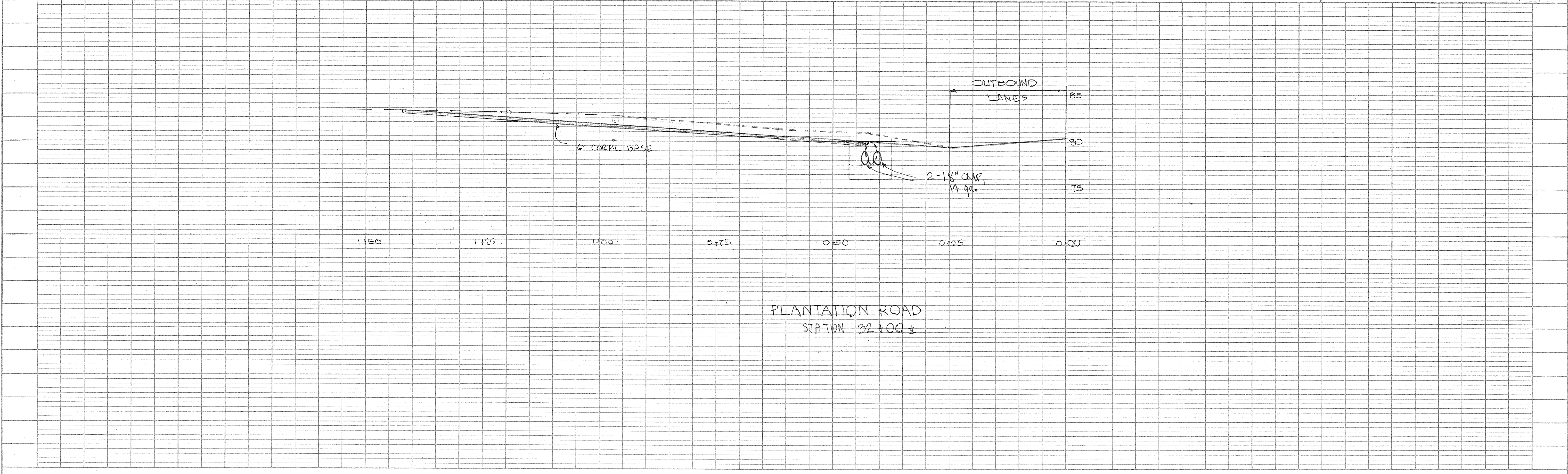


STATION 31+80 TO 32+26 LT.
Construct 2-conc Headwall
Install 2-18" CMP, 14 ga.
Demolish exist. Headwall
Salvage exist. 30" CMP.
Construct 6" Coral Base Road



DETAIL OF CONCRETE HEADWALLS

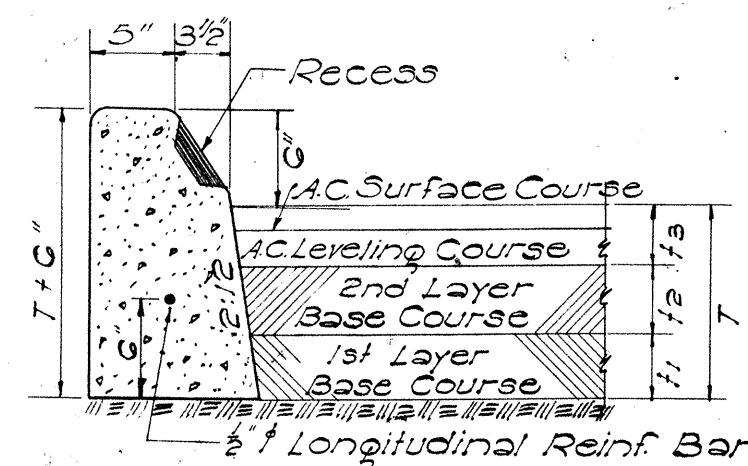
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII
FARRINGTON HIGHWAY WIDENING
FAP F-090-1(8)
EWA PLANTATION CANE HALL ROAD.
Date: May 17, 1965



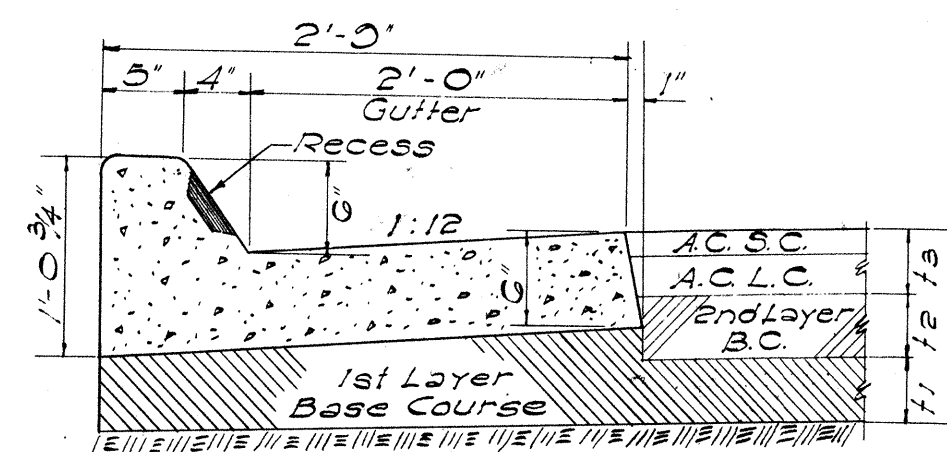
2/17/59
9/22/61

FED. ROAD DIST. NO.	STATE	FED. AID YEAR	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F-09018	1963	12	53

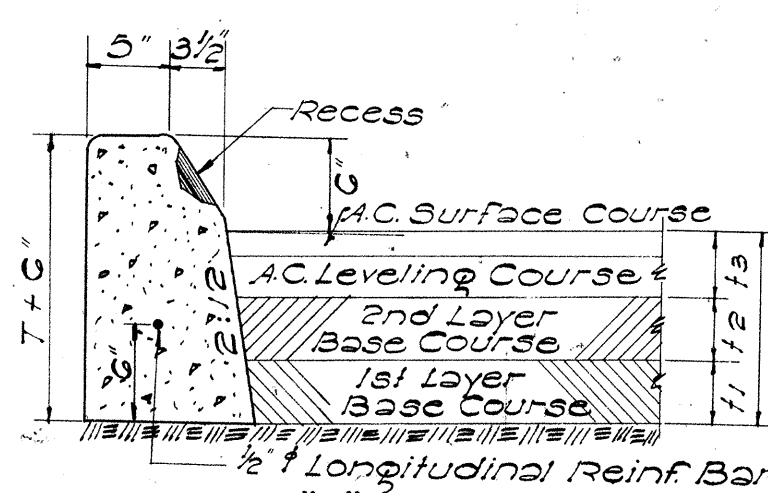
AUG. 1957



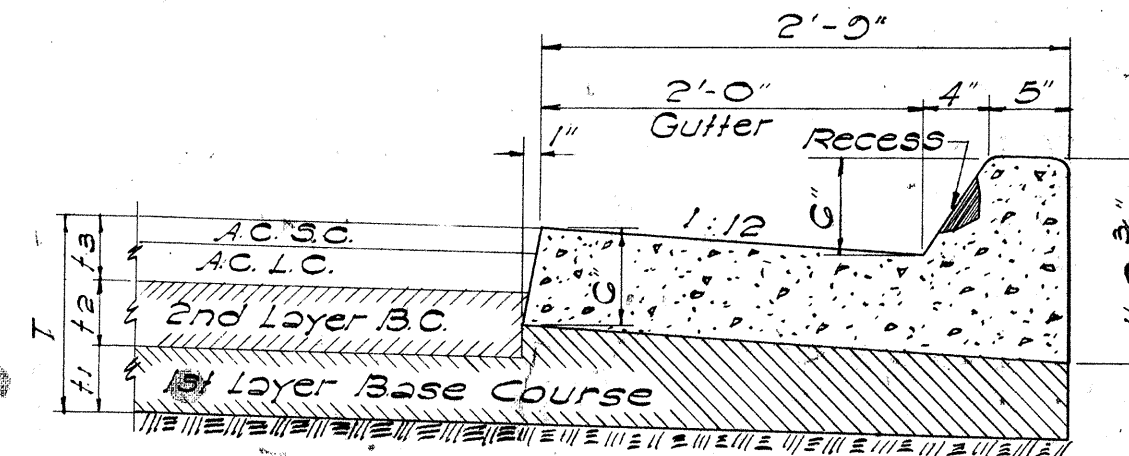
TYPE "A" & "B" CURB
SCALE: 1" = 1'-0"



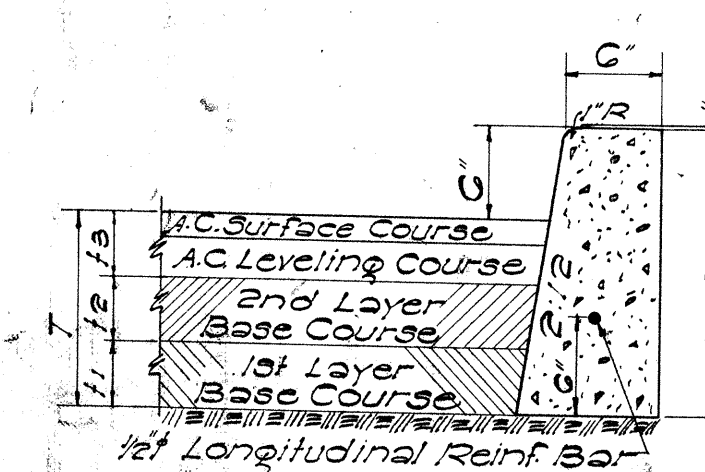
TYPE "AG" & "BG" CURB & GUTTER
SCALE: 1" = 1'-0"



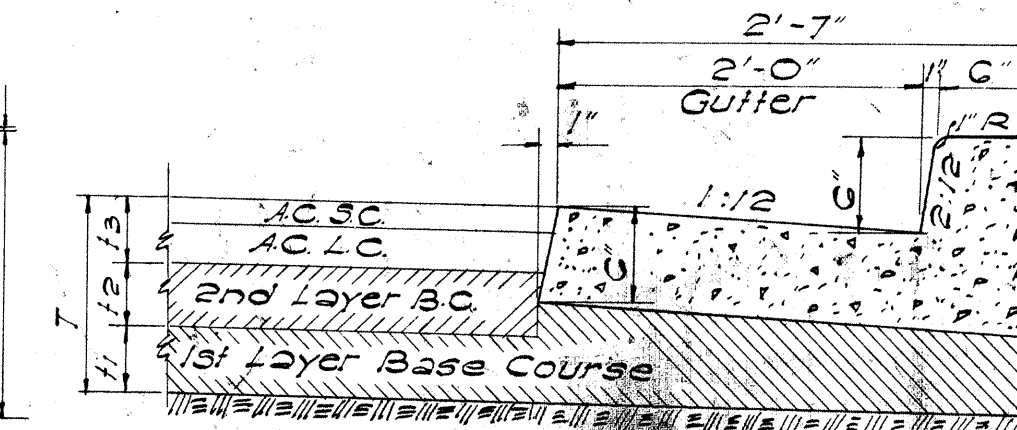
TYPE "C" CURB
SCALE: 1" = 1'-0"



TYPE "CG" CURB & GUTTER
SCALE: 1" = 1'-0"

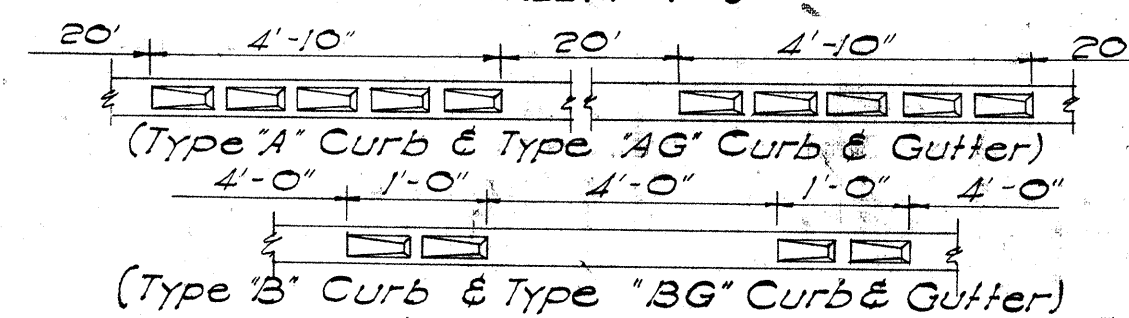


TYPE "D" CURB
SCALE: 1" = 1'-0"

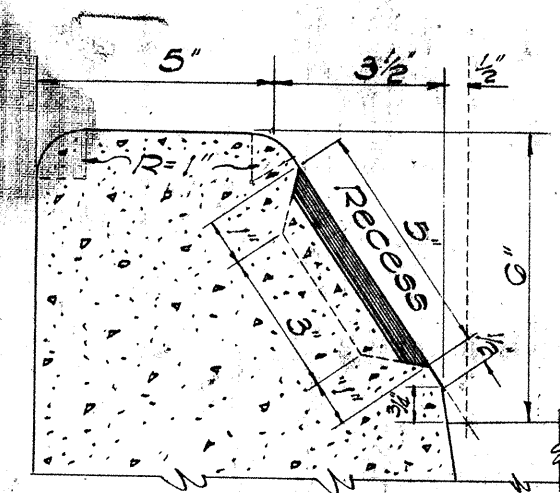


TYPE "DG" CURB & GUTTER
SCALE: 1" = 1'-0"

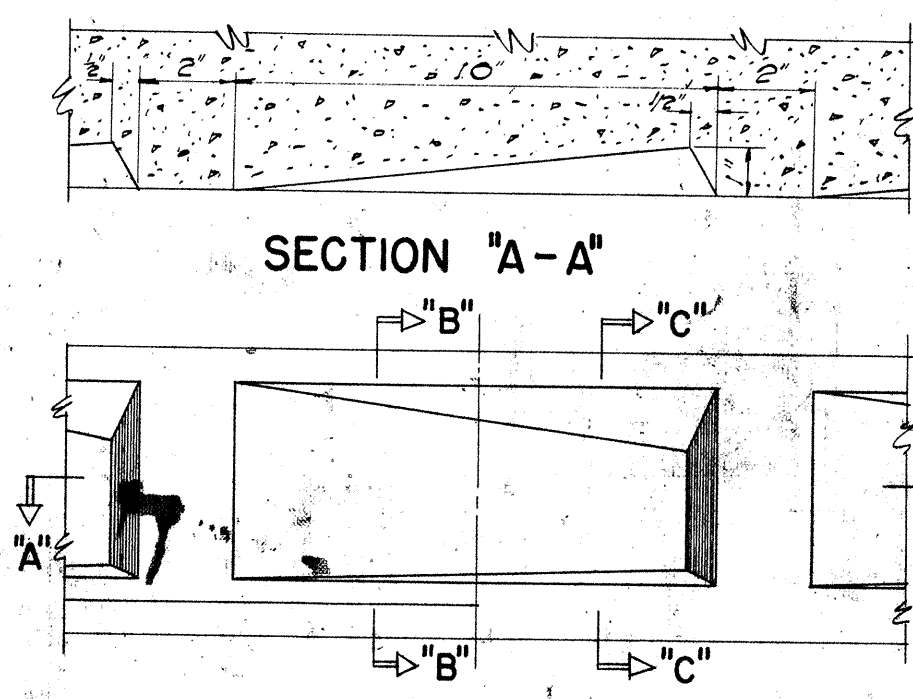
General Note Covering All Types of Curbs:
Occasionally curb rests on first layer
of base course. See typical sections.



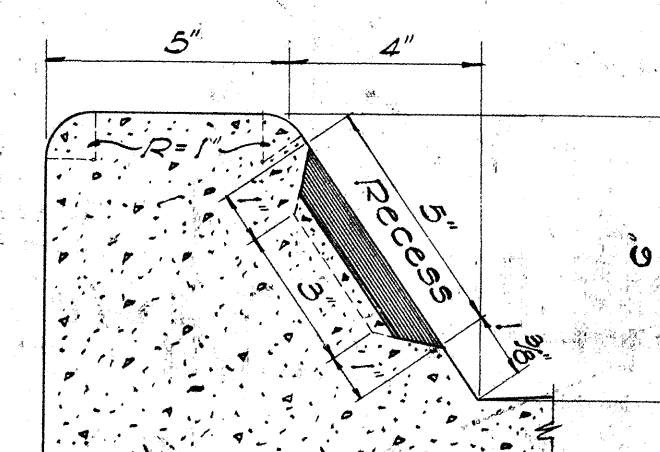
TYPE AND SPACING OF RECESSES



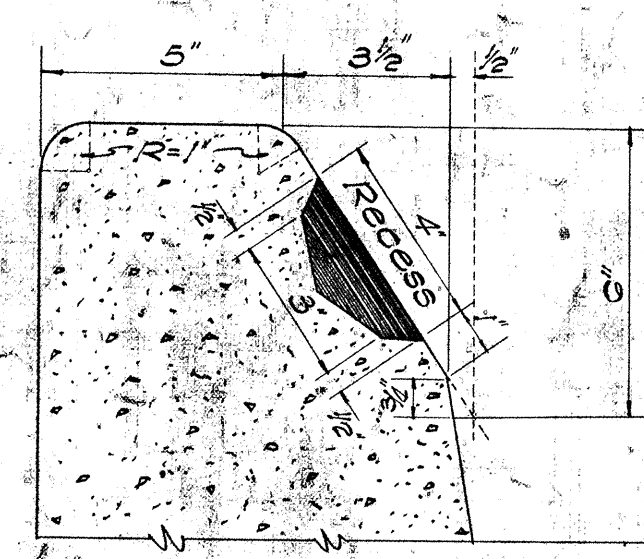
SECTION "B-B"
TYPE "A" & "B" CURB



ELEVATION
SCALE: 3" = 1'-0"



SECTION "C-C"
TYPE "AG" & "BG" CURB

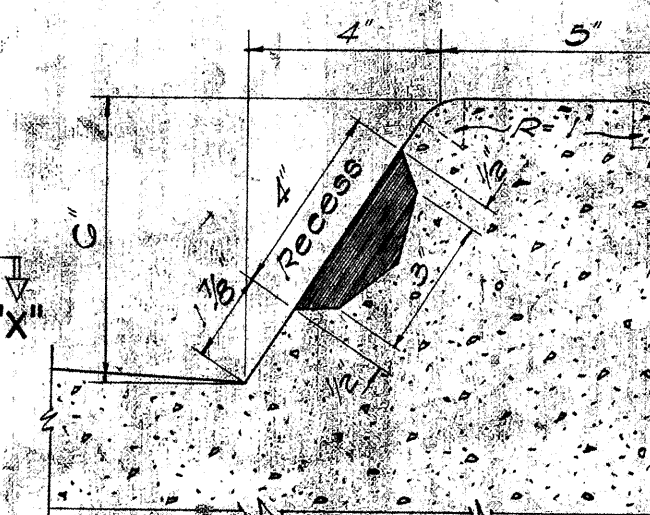


SECTION "Y-Y"
TYPE "C" CURB



SECTION "X-X"
"Z" = "Y"

ELEVATION
SCALE: 5" = 1'-0"



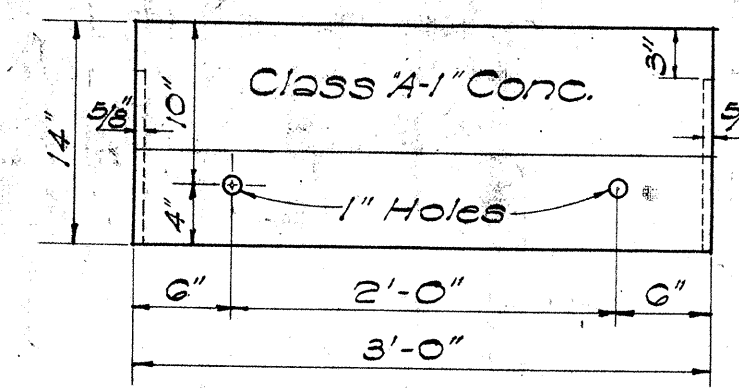
SECTION "Z-Z"
TYPE "CG" CURB

- NOTES:
- 1) Types "AG", "BG", "CG", "DG", and "EG" Concrete Curbs and Gutters are to be poured monolithically.
 - 2) Types "A", "B", and "C" Curbs and Types "AG", "BG", and "CG" Curbs and Gutters occur at Median Strips and Traffic Islands.
 - 3) Shaded area in Curbs are to be painted with an approved white lacquer (One Coat).
 - 4) All Concrete Curbs and Gutters shown herein are to be of Class "A-1" Conc. and Cap in Place.

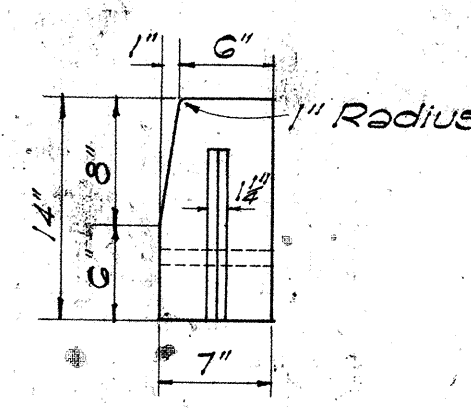


TYPE "G" GUTTER
SCALE: 1" = 1'-0"

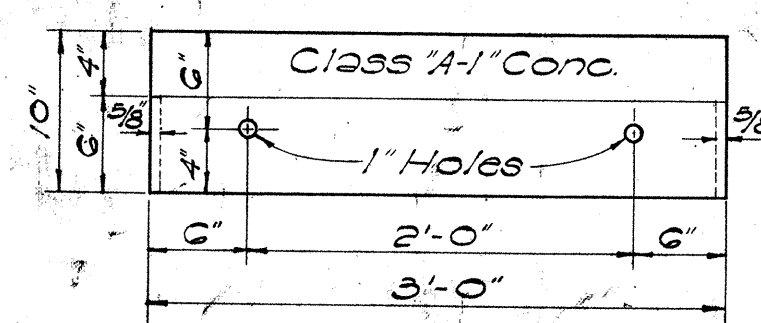
DETAILS OF CAST-IN-PLACE CONC. CURBS AND GUTTERS



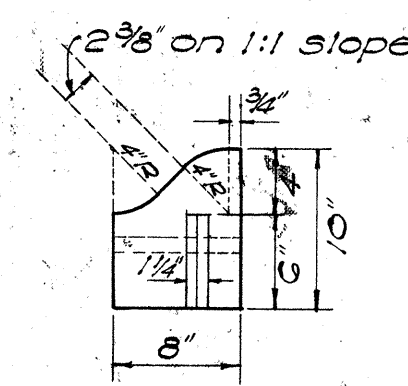
FRONT ELEV.
PRECAST CONC. CURB
SCALE: 1" = 1'-0"



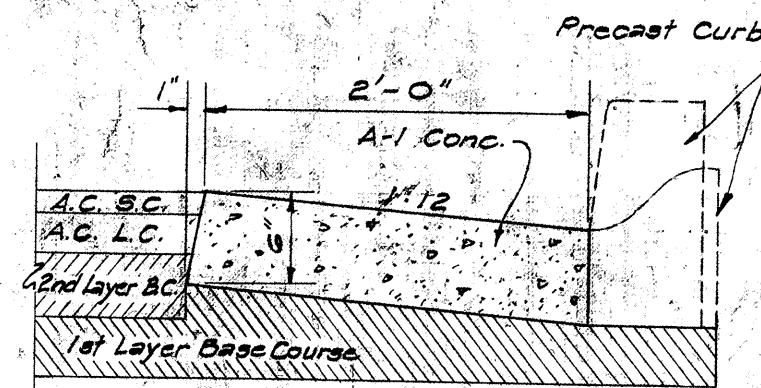
END ELEV.



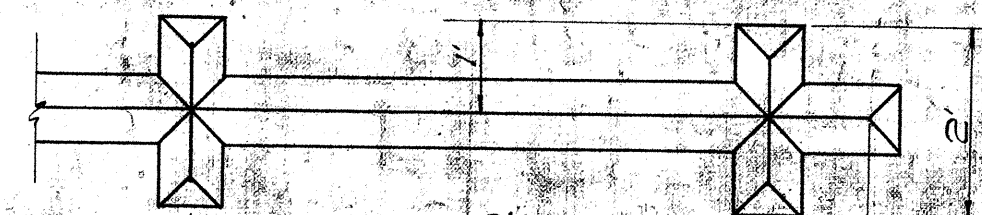
FRONT ELEV.
PRECAST CONC. ROLL CURB
SCALE: 1" = 1'-0"



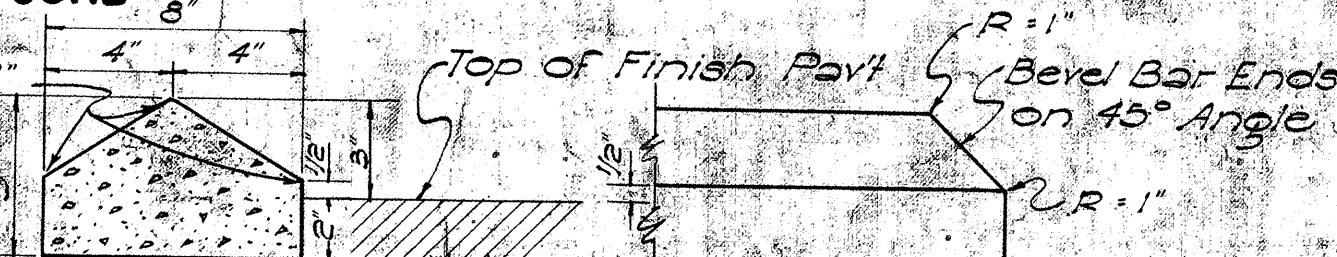
END ELEV.



TYPE "F" GUTTER
FOR PRECAST CURB

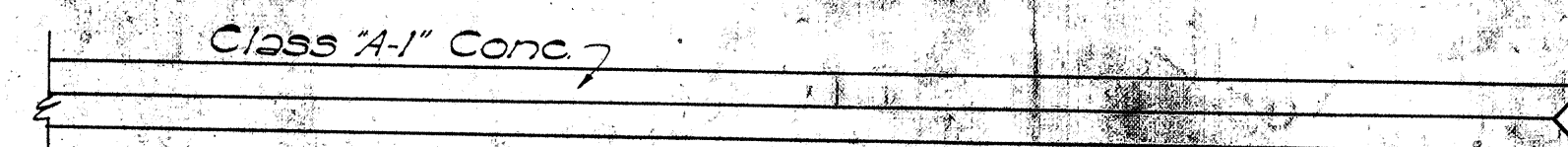


PLAN
SCALE: 1/2" = 1'-0"



SECTION
RAISED TRAFFIC BARS

SCALE: 2" = 1'-0"

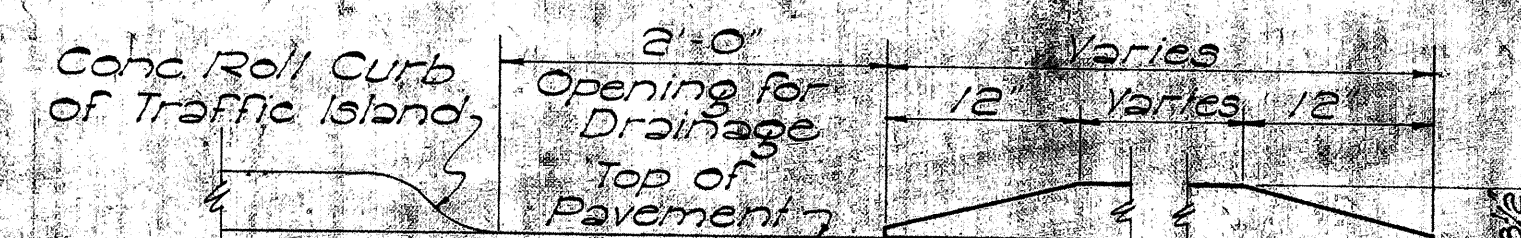


RAISED JIGGLE BARS

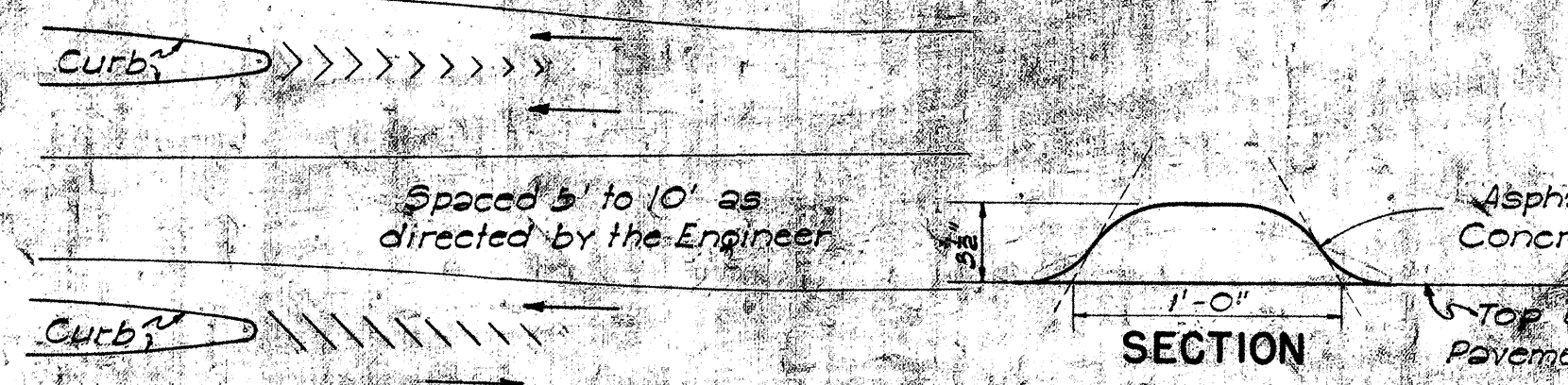
SCALE: 1/2" = 1'-0"

NOTE:
Section and Elevation
for Jiggle Bars are same
as the Traffic Bars.

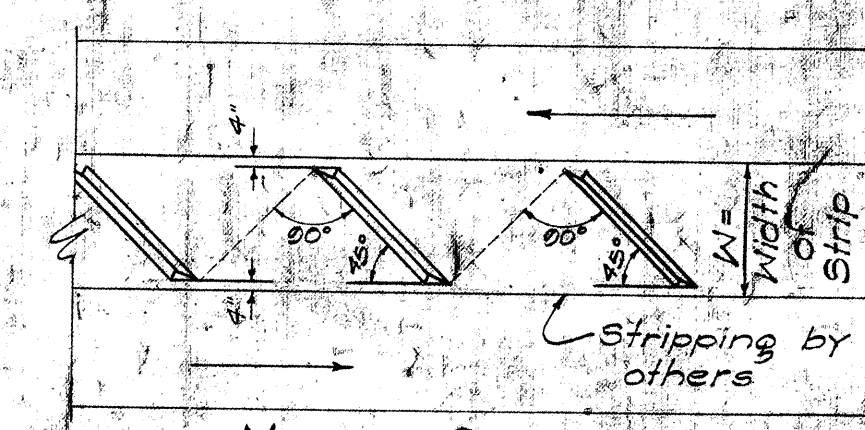
NOTE:
Paint all exposed surfaces
of bars with beaded white
traffic lacquer.



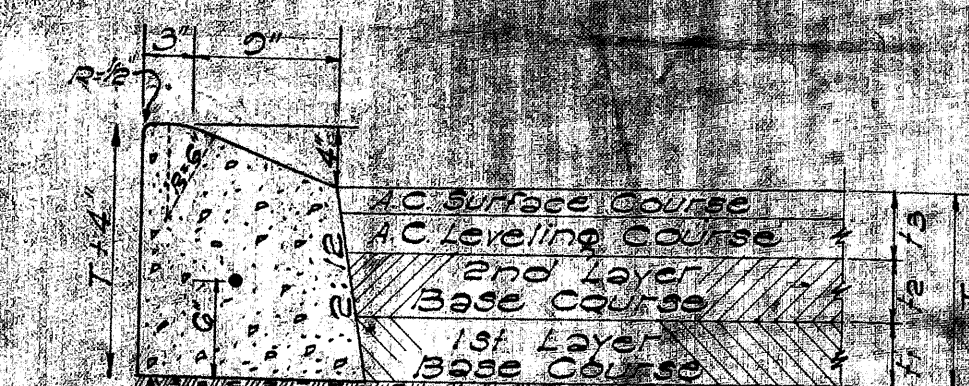
ELEVATION



A.C. TRAFFIC ROLL
NOT TO SCALE

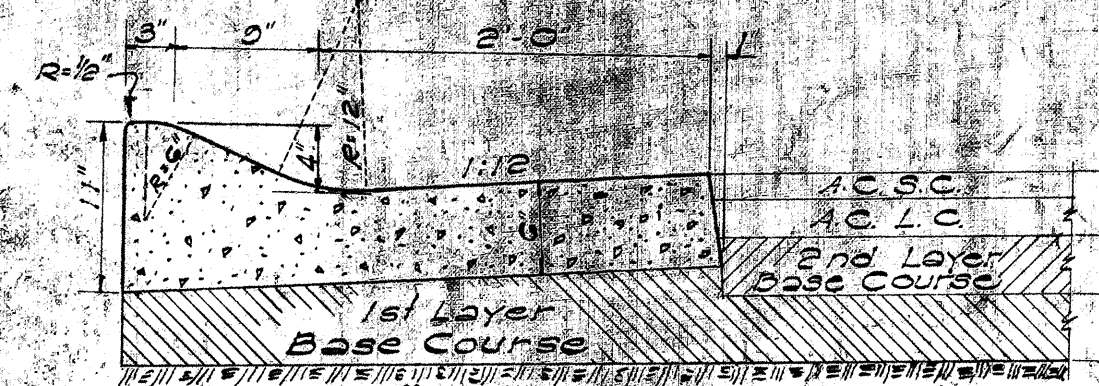


MEDIAN STRIP
LAYOUT OF JIGGLE BARS
NOT TO SCALE



TYPE "E" CAST-IN-PLACE
CONCRETE CURB

SCALE: 1" = 1'-0"



TYPE "EG" CAST-IN-PLACE
CONC. CURB & GUTTER

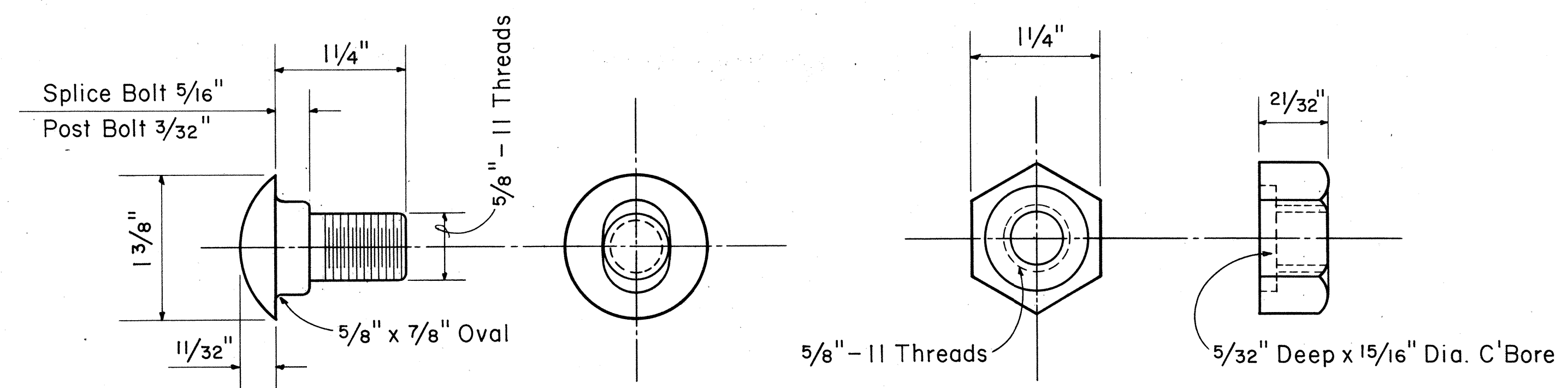
SCALE: 1" = 1'-0"

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STATE OF HAWAII

STANDARD DETAILS
CONCRETE CURBS,
CONCRETE CURBS & GUTTERS
SCALES AS NOTED

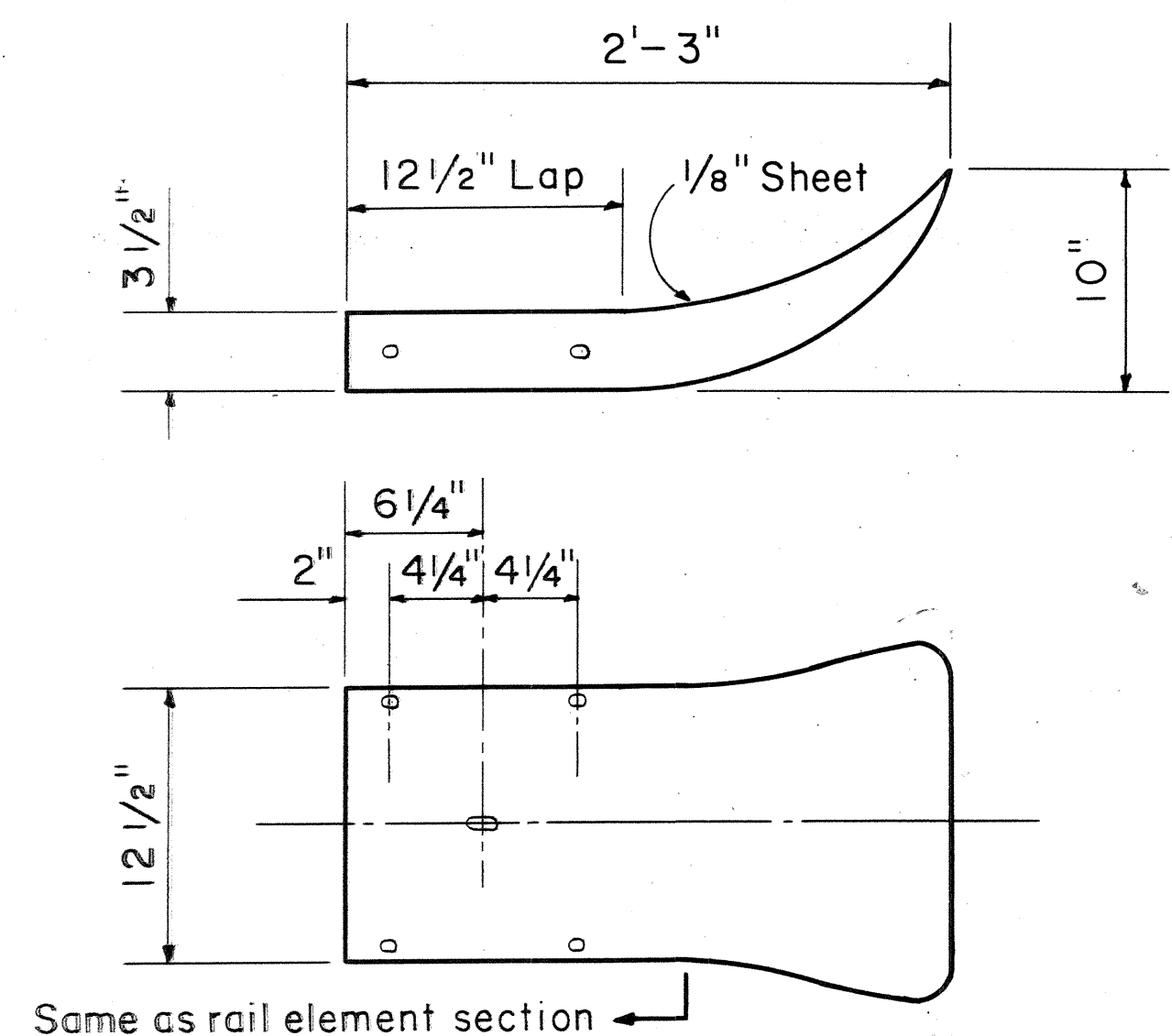
DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: [Date]
ORIGINAL PLAN: [Date]
NOTE: [Text]
QUANTITIES CHECKED BY: [Signature]
CHECKED BY: [Signature]

FED. AID DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	F-090-1(8)	1963	13	53

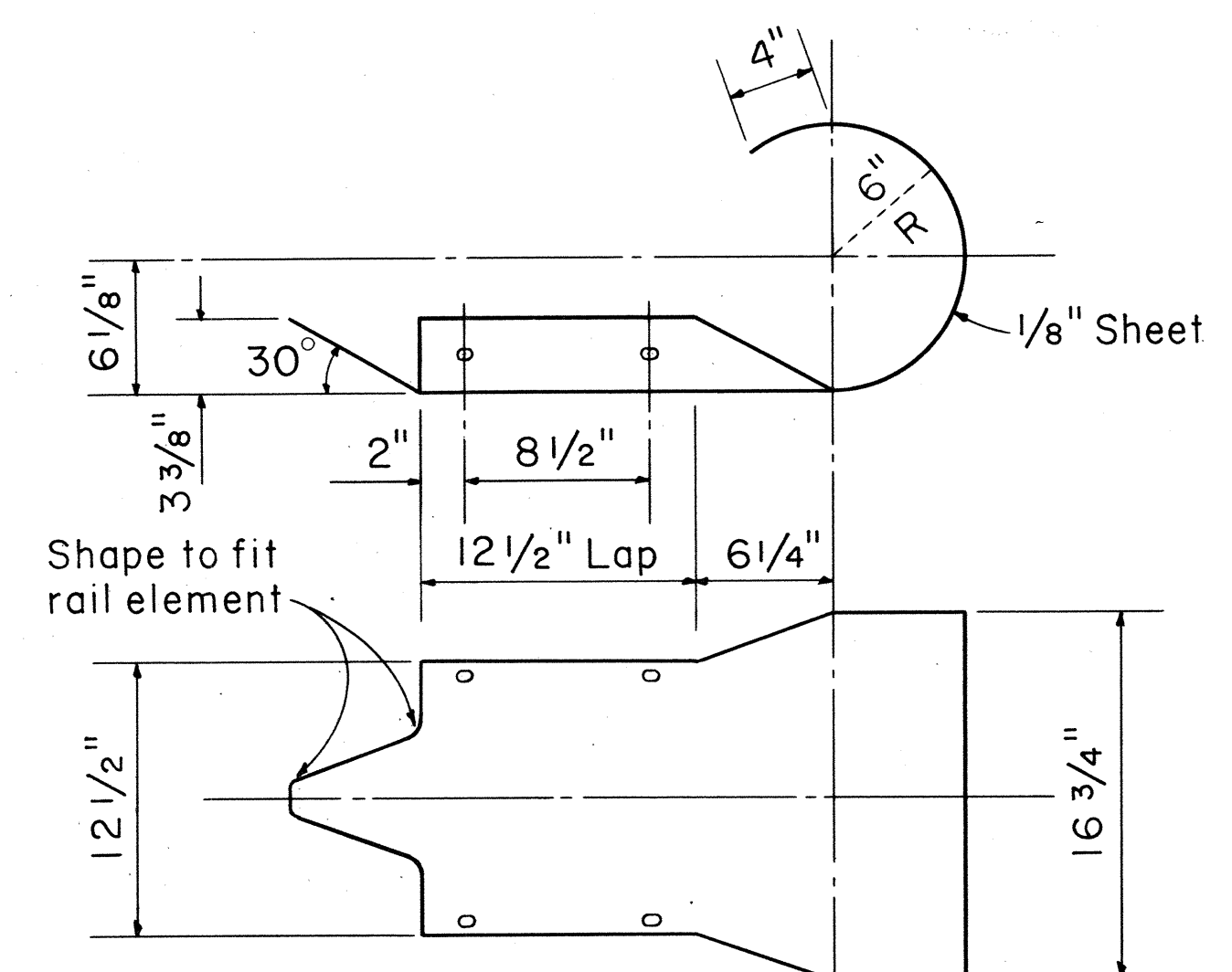


SPLICE BOLT
POST BOLT (Same except for length)
Scale: Full Size

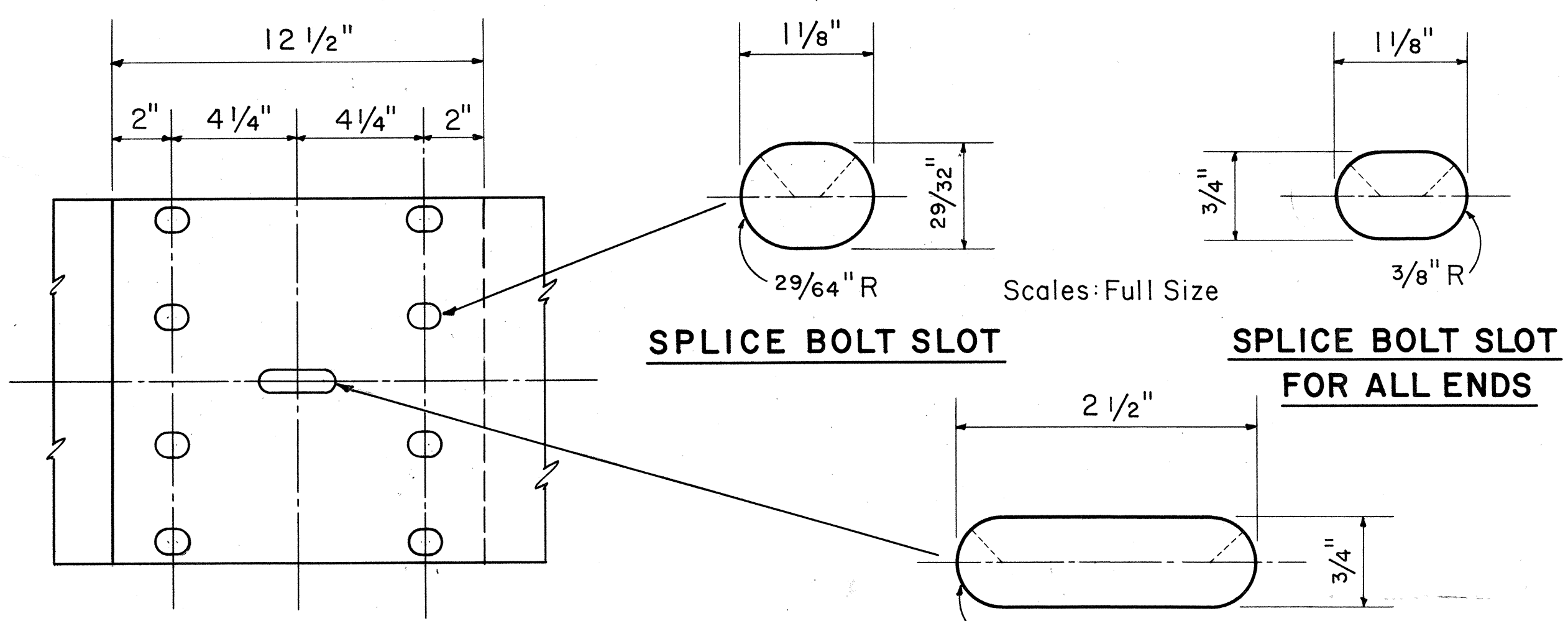
HEXAGON NUT
Scale: Full Size



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

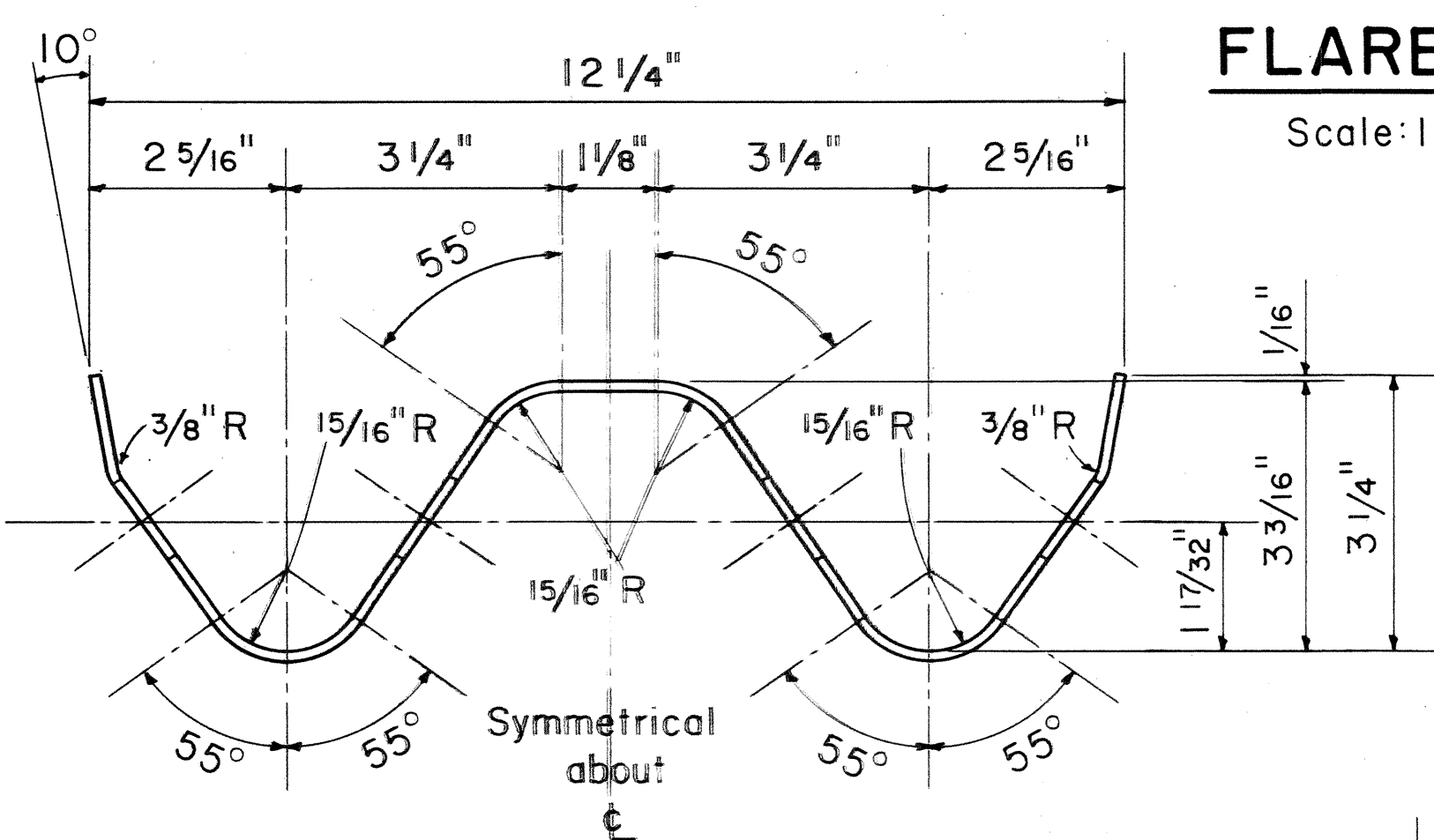


CURVED END
Scale: 1 1/2" = 1'-0"



SPLICE BOLT SLOT
Scales: Full Size

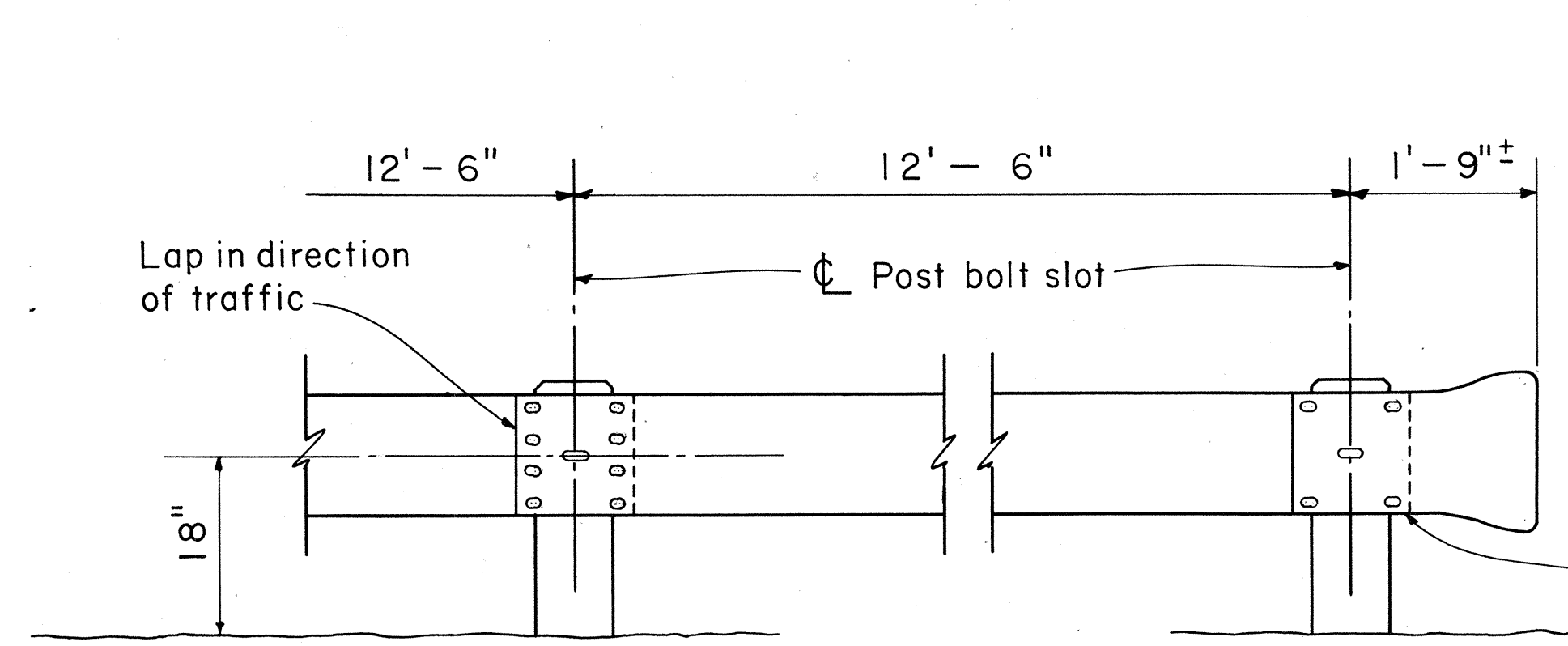
SPLICE BOLT SLOT FOR ALL ENDS
Scale: Full Size



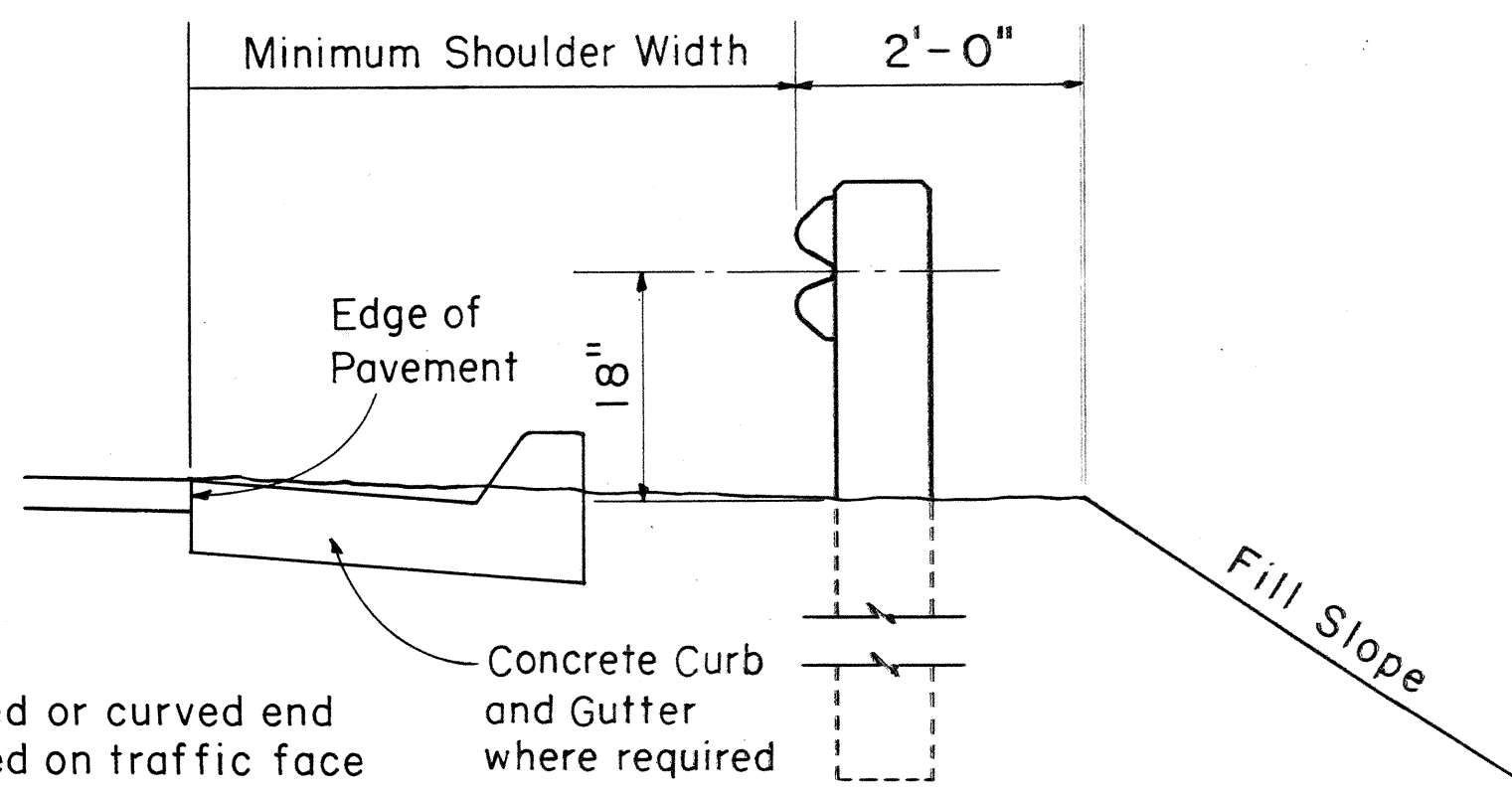
RAIL ELEMENT SECTION
Scale: Half Full Size

RAIL SPLICE
Scale: 3" = 1'-0"

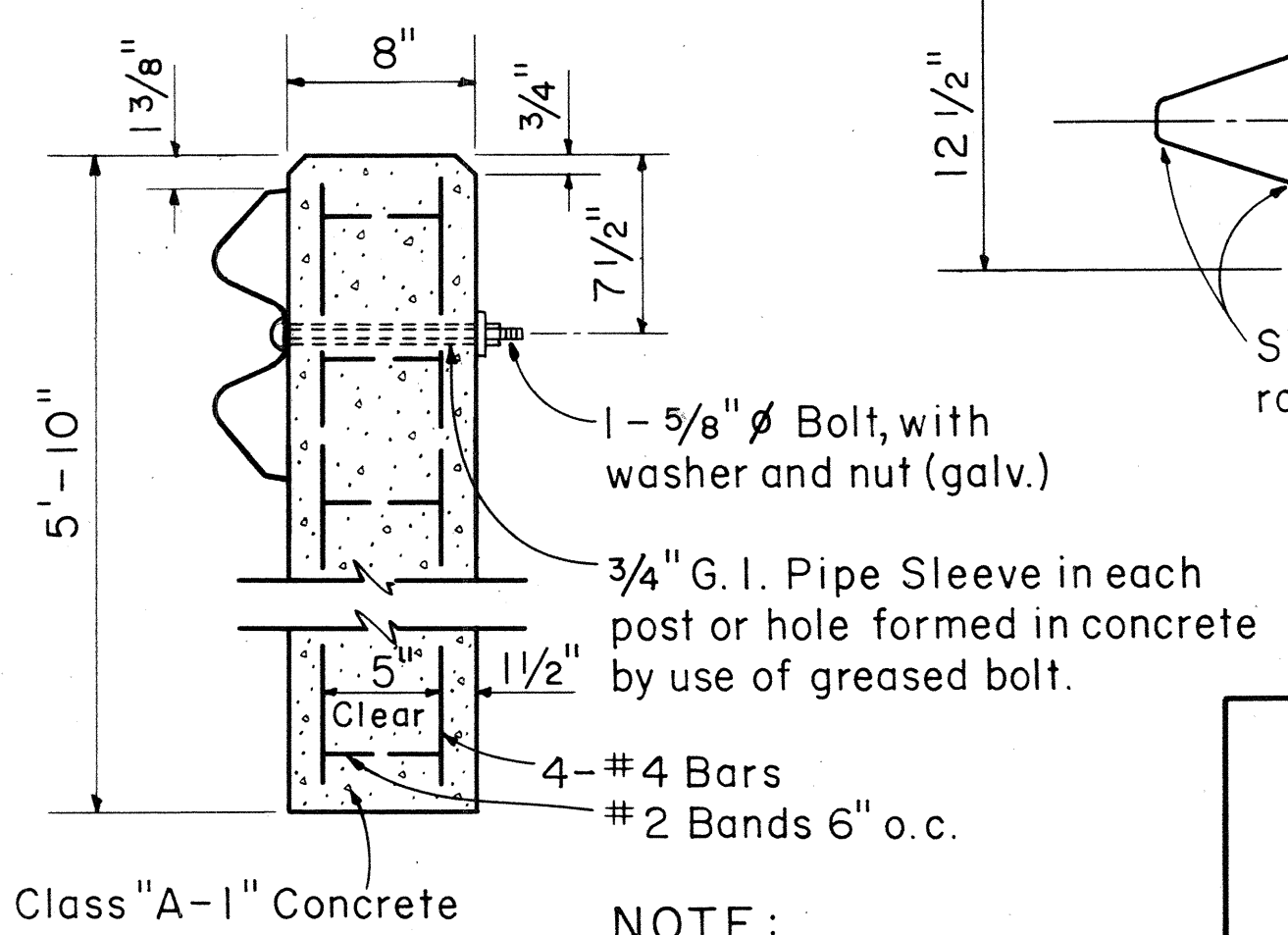
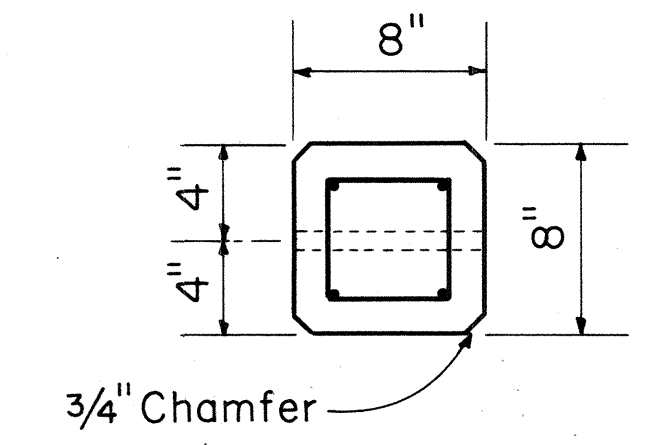
POST BOLT SLOT
Scale: Full Size



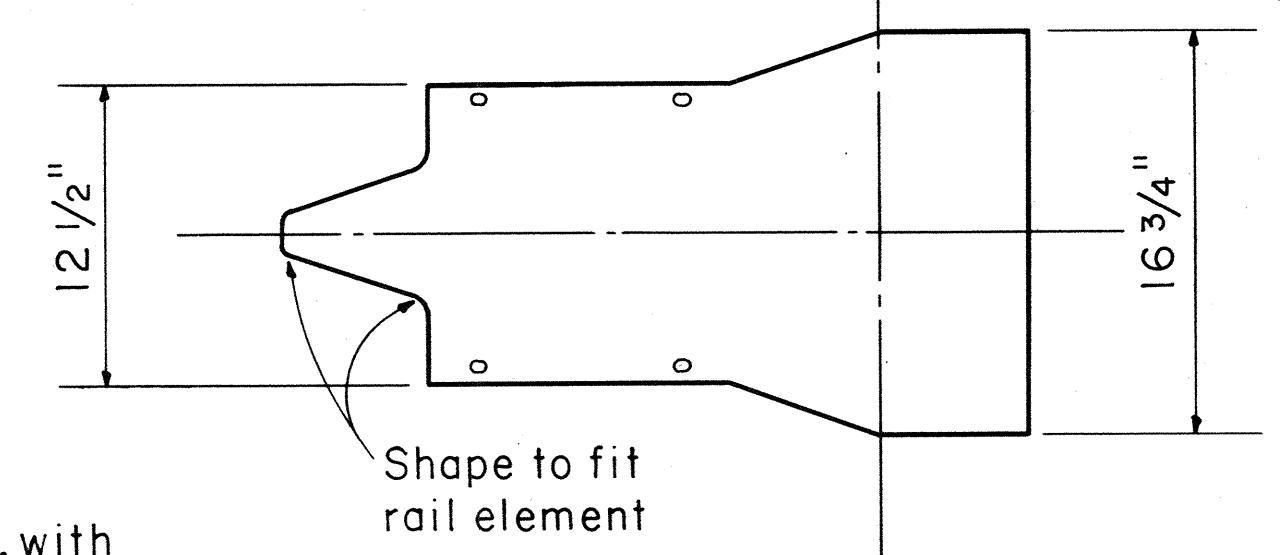
METAL GUARD RAIL
Scale: 3/4" = 1'-0"



ELEVATION
Scale: 3/4" = 1'-0"



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



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

NOTE:
All concrete posts shall be precast.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STANDARD DETAILS
METAL GUARD RAIL

Scales: As Noted. Date
SHEET NO. 5 OF 5 SHEETS

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