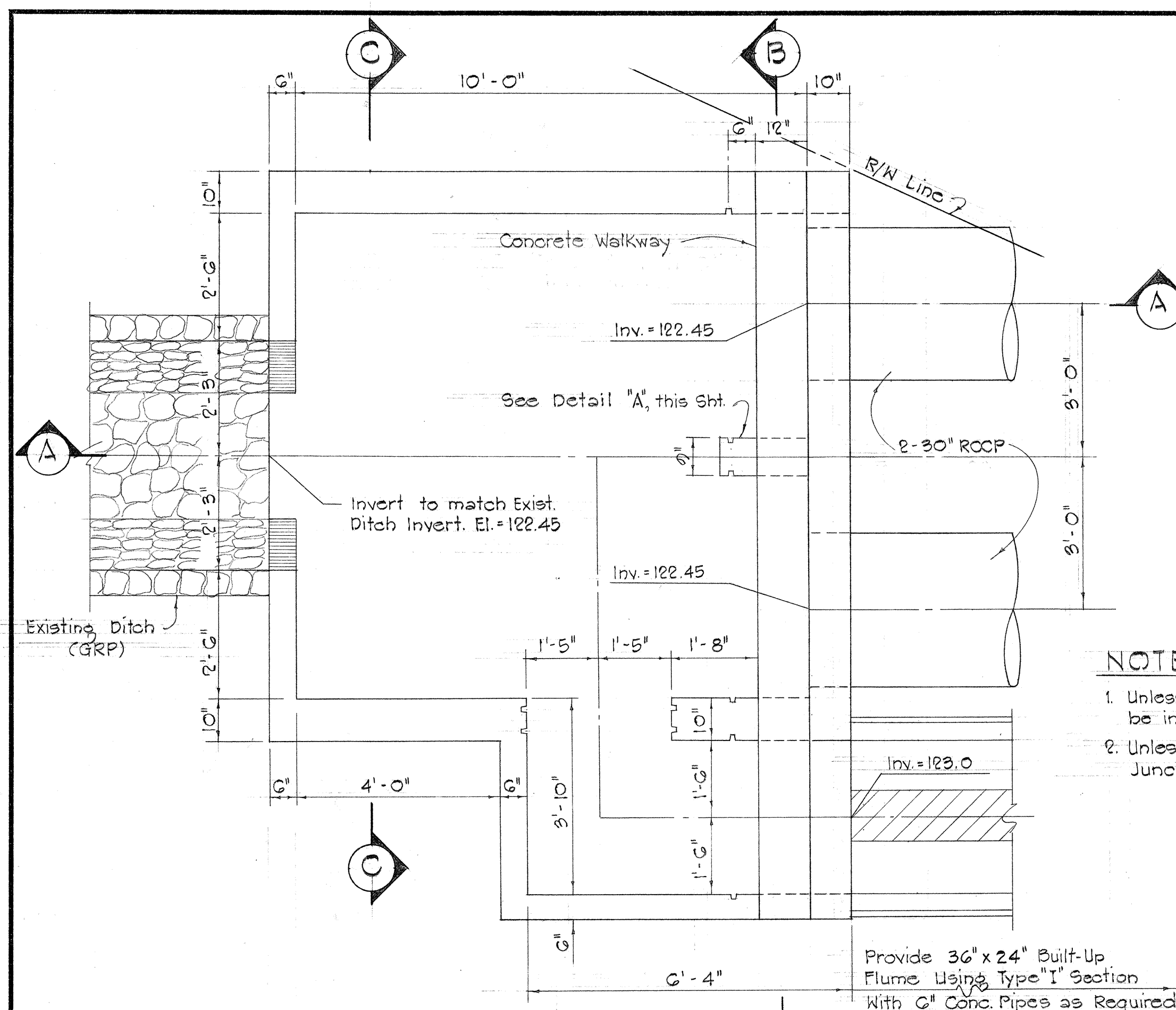
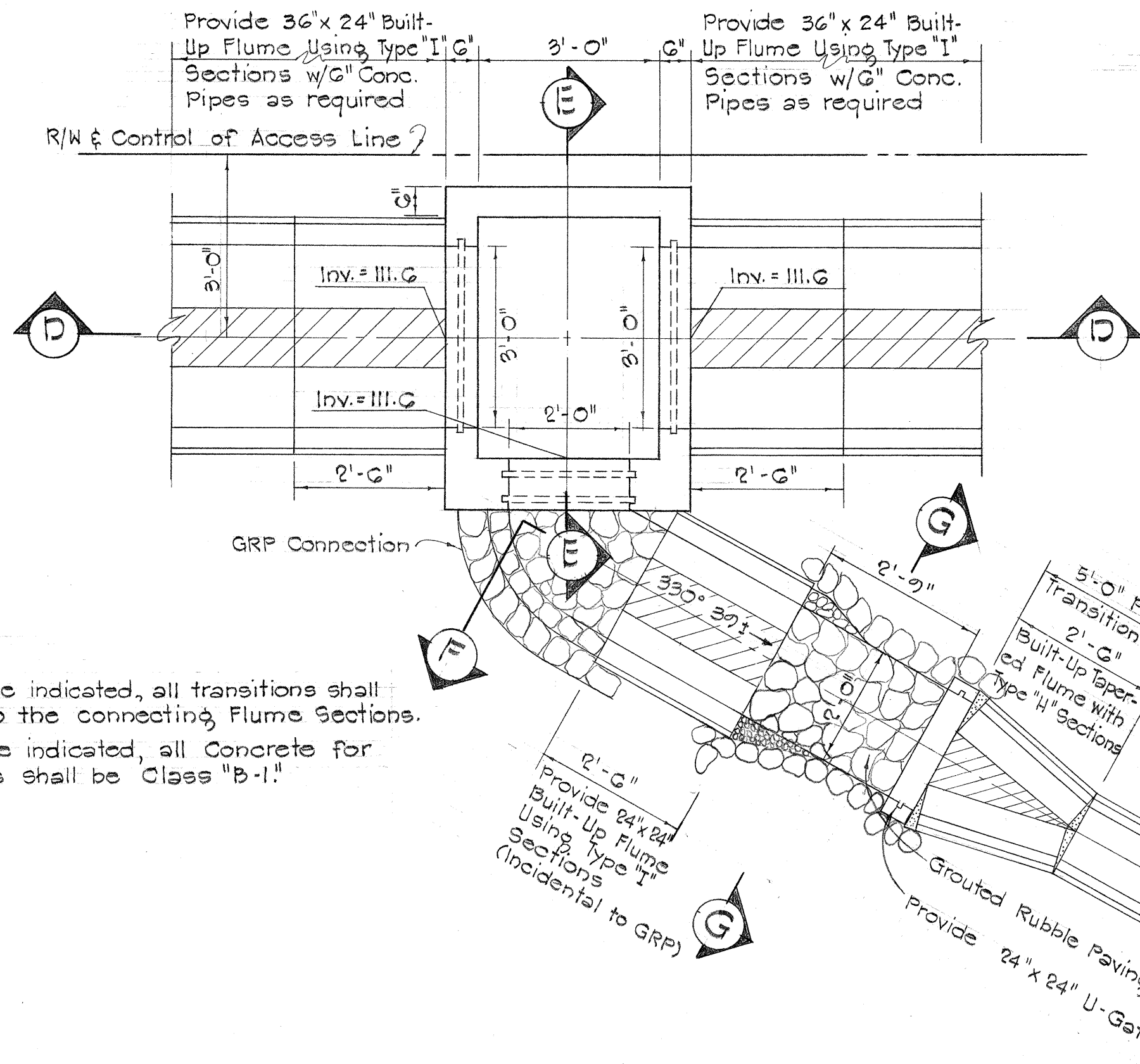


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	5-0000(3)	1965	102	162



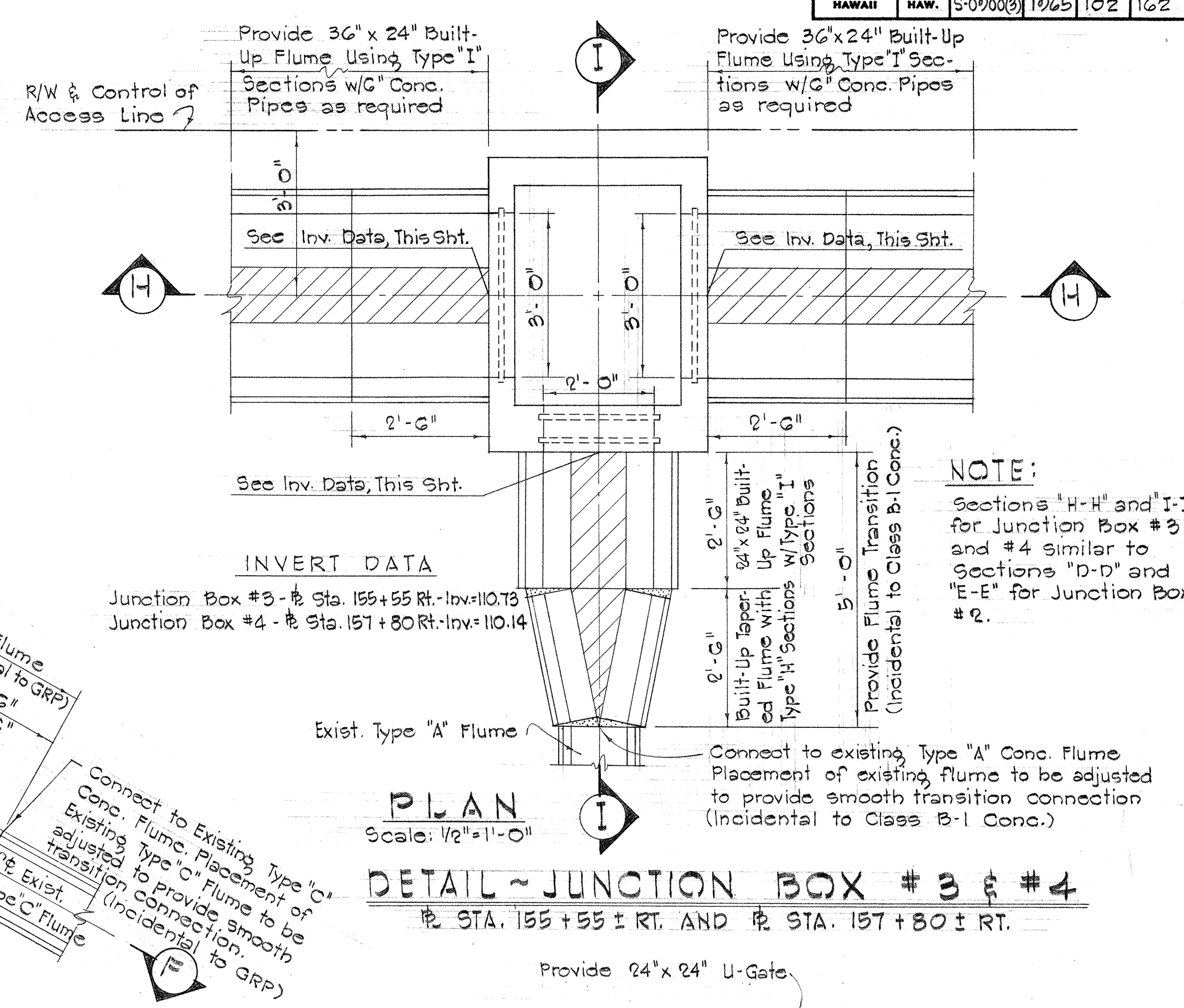
PLAN
Scale: 1/2" = 1'-0"

DETAIL - JUNCTION BOX #1
R. STA. 148 + 90 ± 77' 2/3 RT.



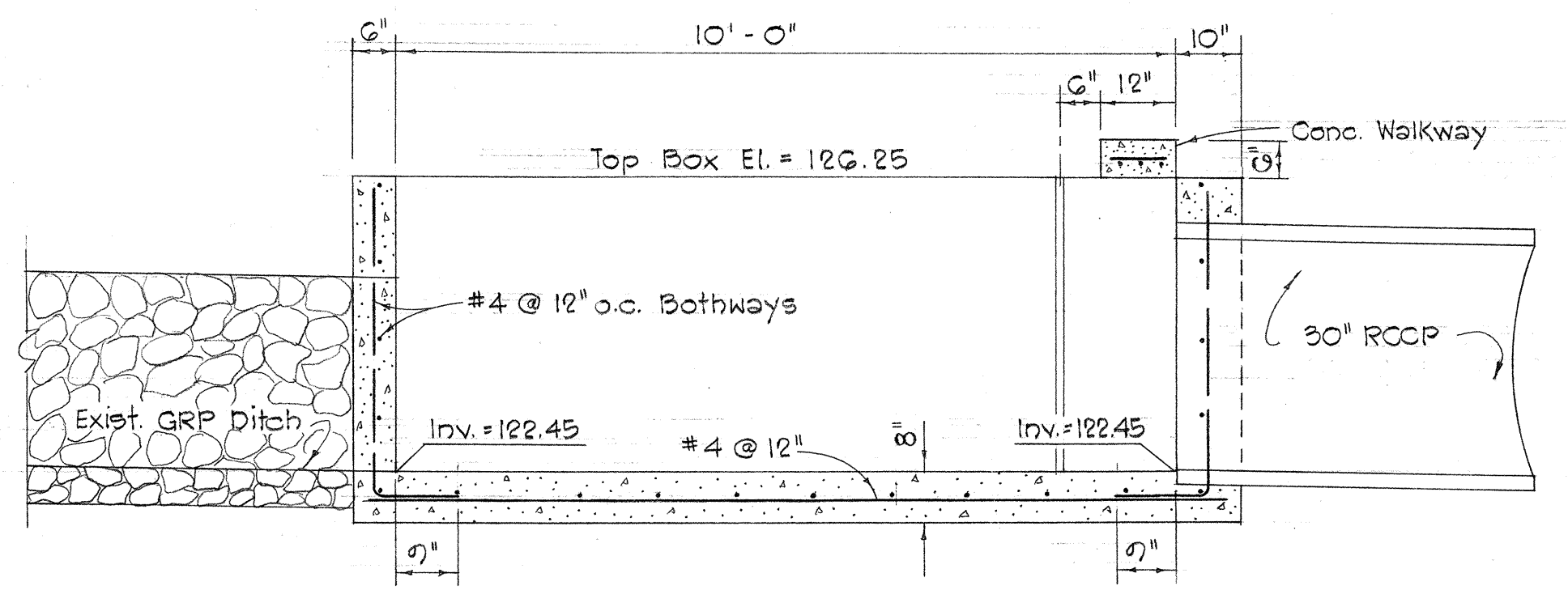
PLAN
Scale: 1/2" = 1'-0"

DETAIL - JUNCTION BOX #2
R. STA. 153 + 82 ± RT.

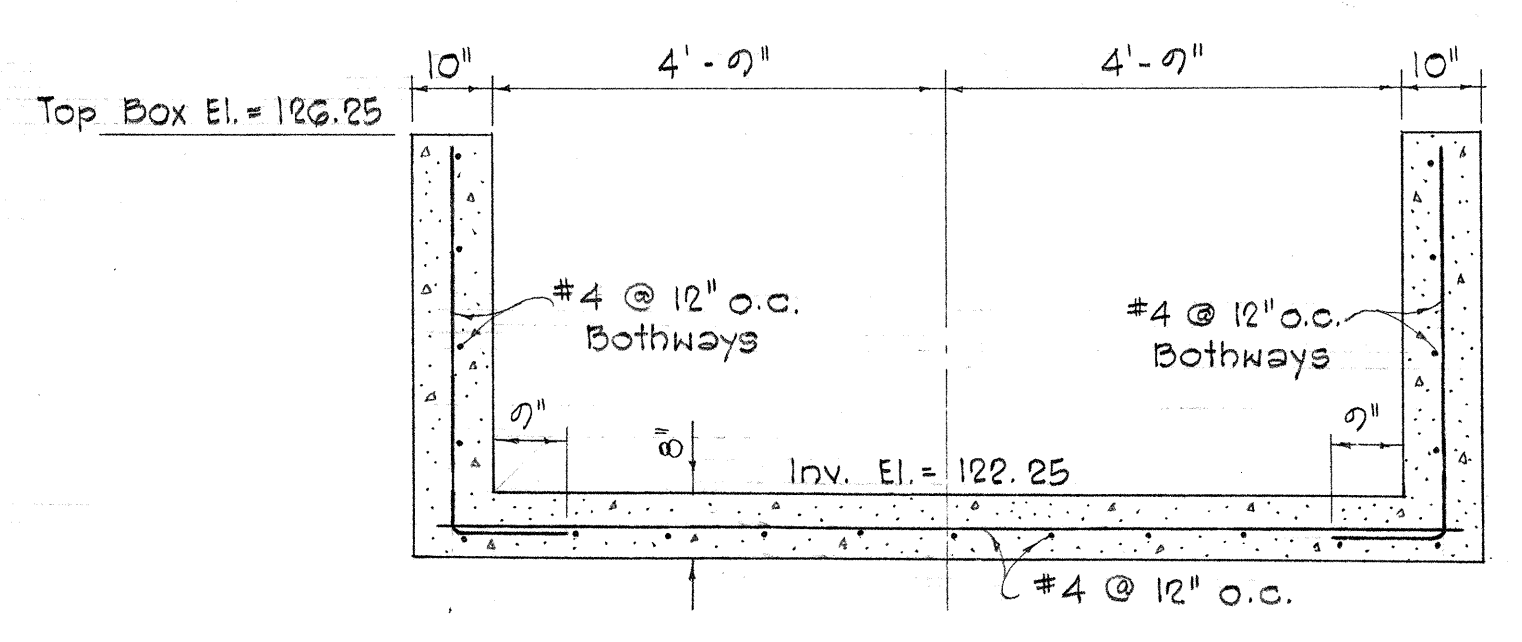


PLAN
Scale: 1/2" = 1'-0"

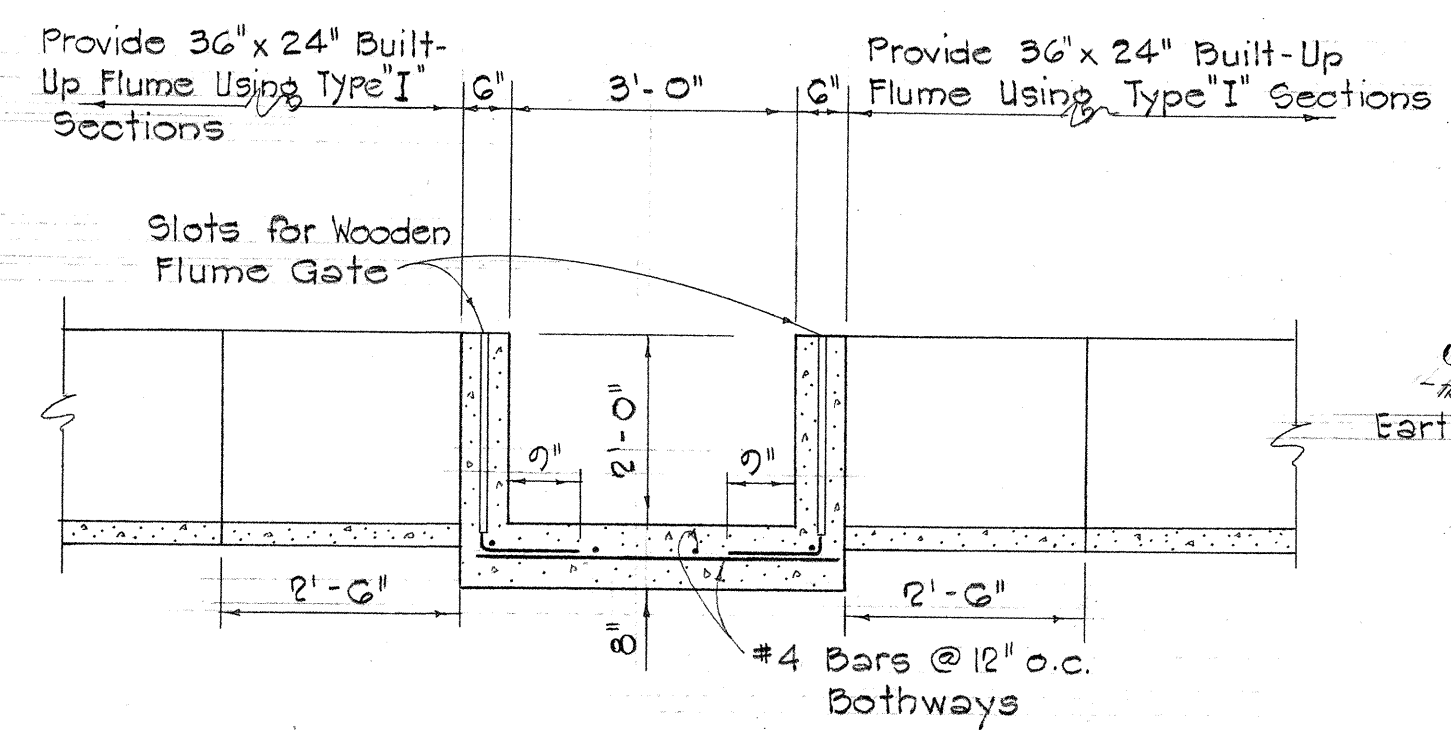
DETAIL - JUNCTION BOX #3 & #4
R. STA. 155 + 55 ± RT. AND R. STA. 157 + 80 ± RT.



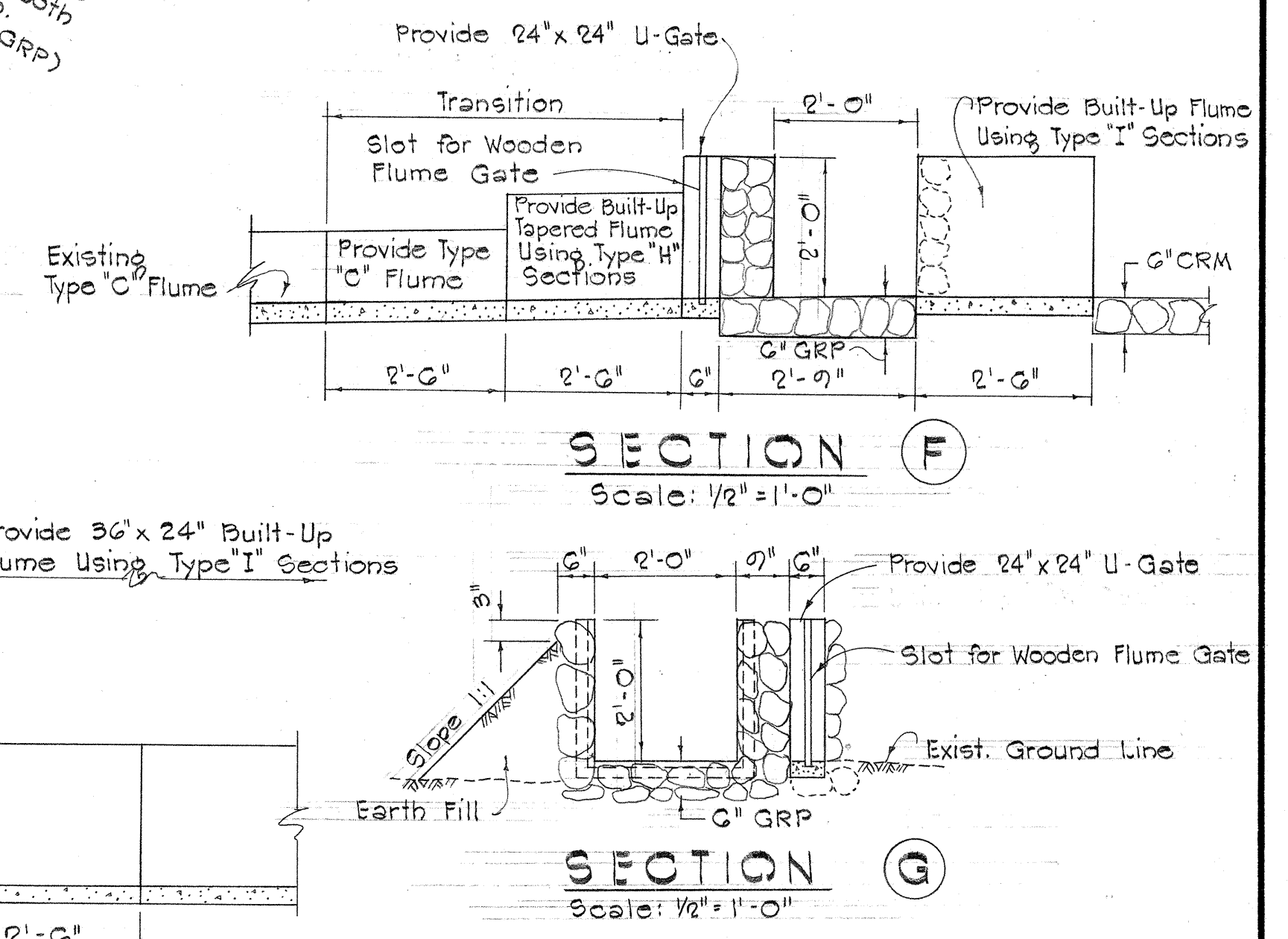
SECTION A
Scale: 1/2" = 1'-0"



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

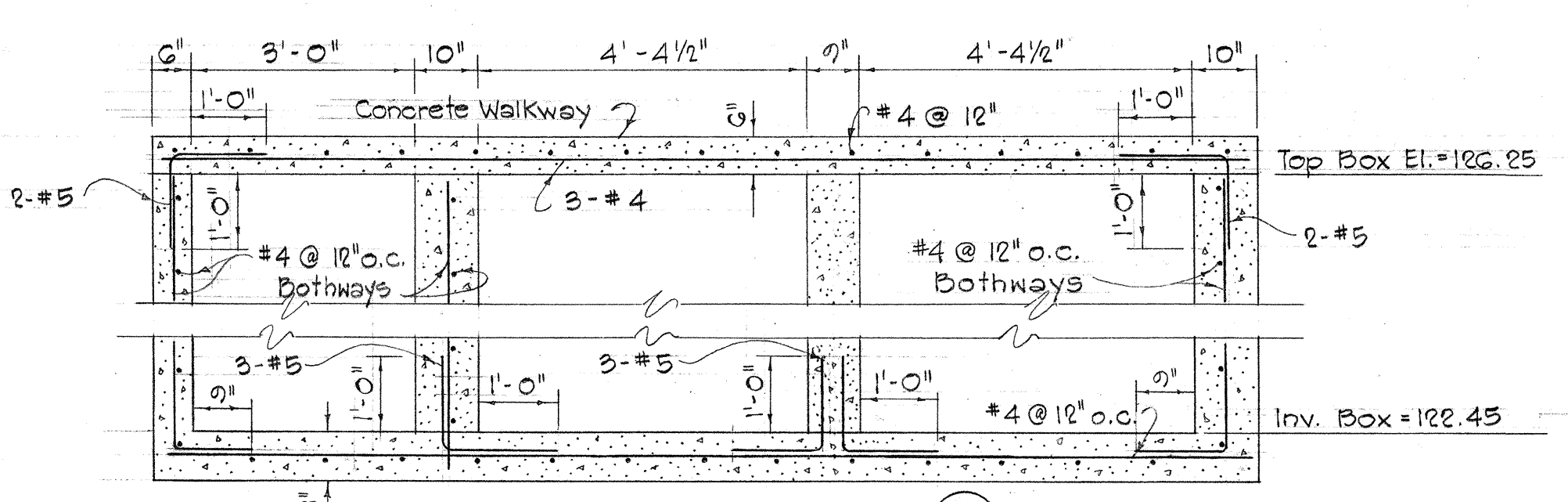


SECTION D
Scale: 1/2" = 1'-0"

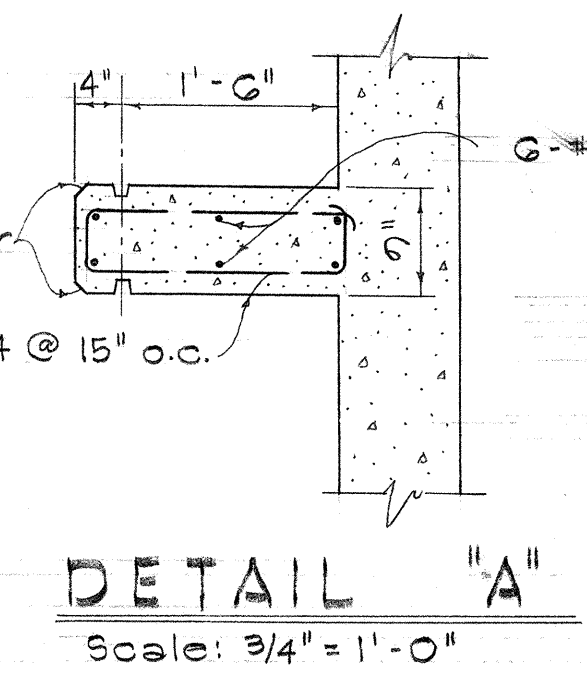
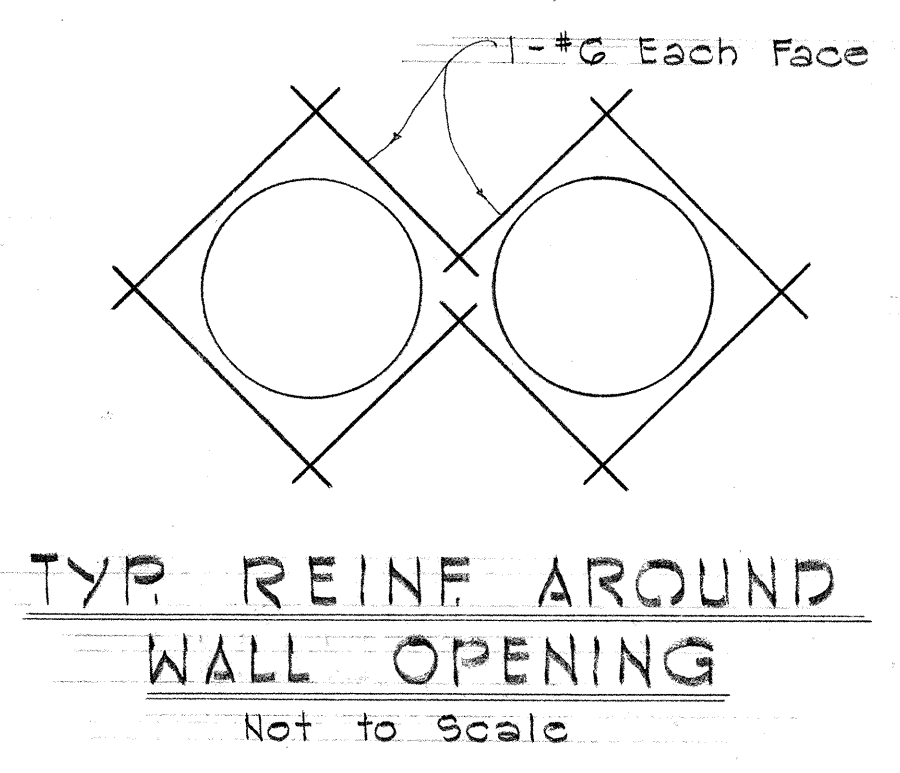


SECTION F
Scale: 1/2" = 1'-0"

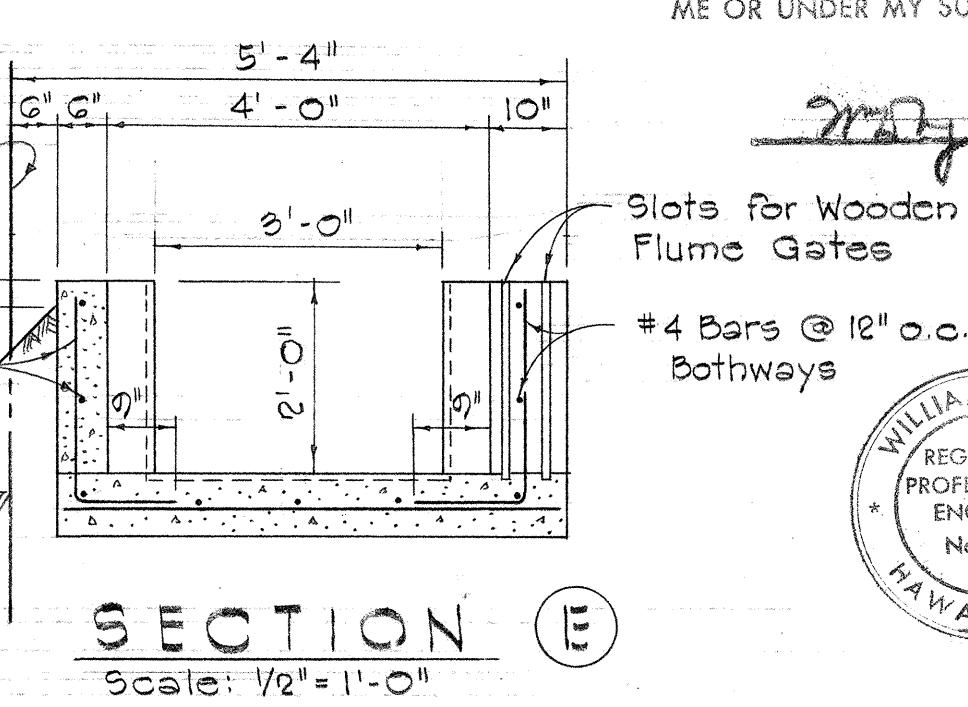
SECTION G
Scale: 1/2" = 1'-0"



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



DETAIL 'A'
Scale: 3/4" = 1'-0"



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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION,

Belt, Collins & Associates Ltd.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

IRRIGATION DETAILS
JUNCTION BOXES #1, #2, #3 & #4

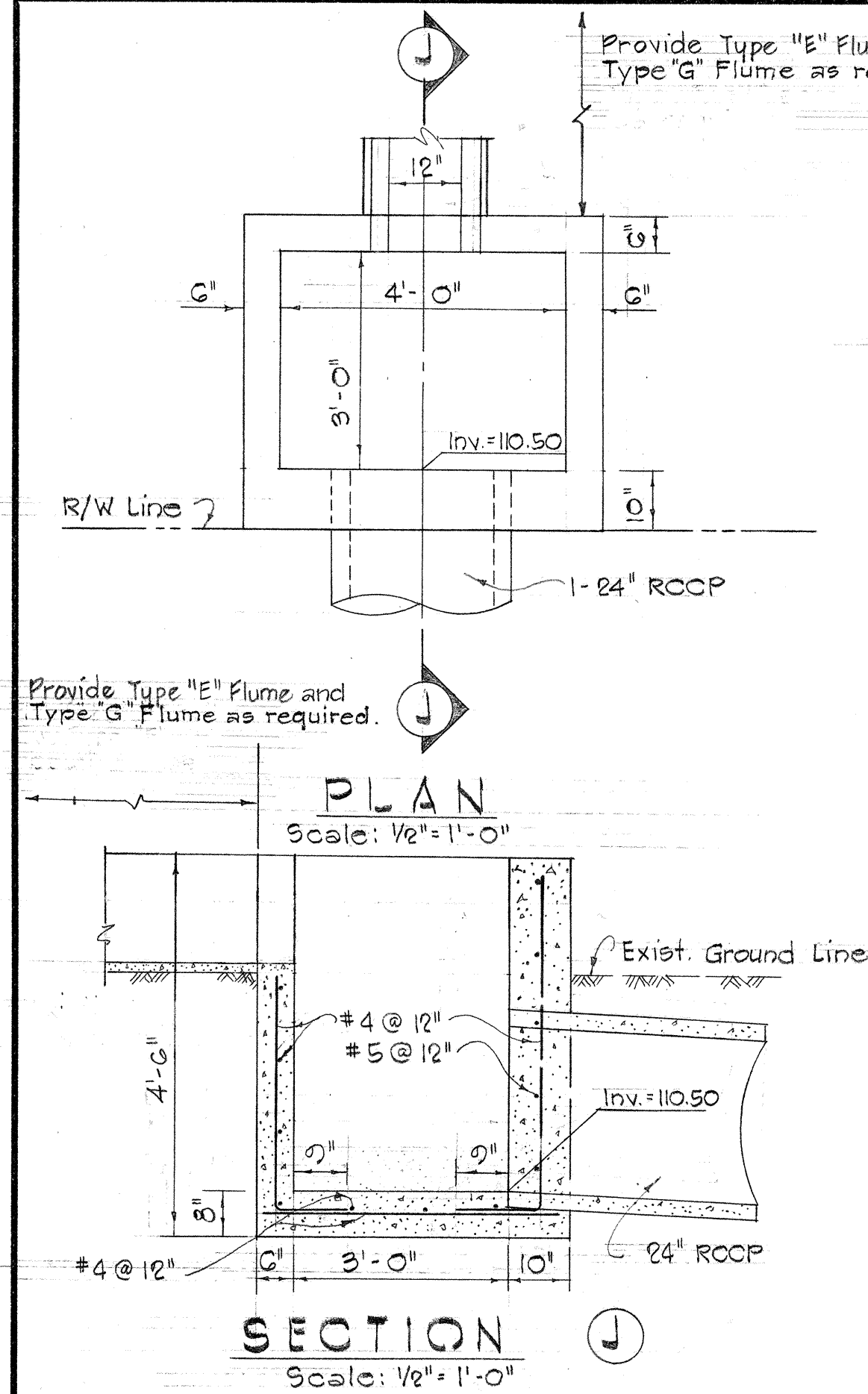
FARRINGTON HIGHWAY
PROJECT NO S-0900(3)

APRIL 1965

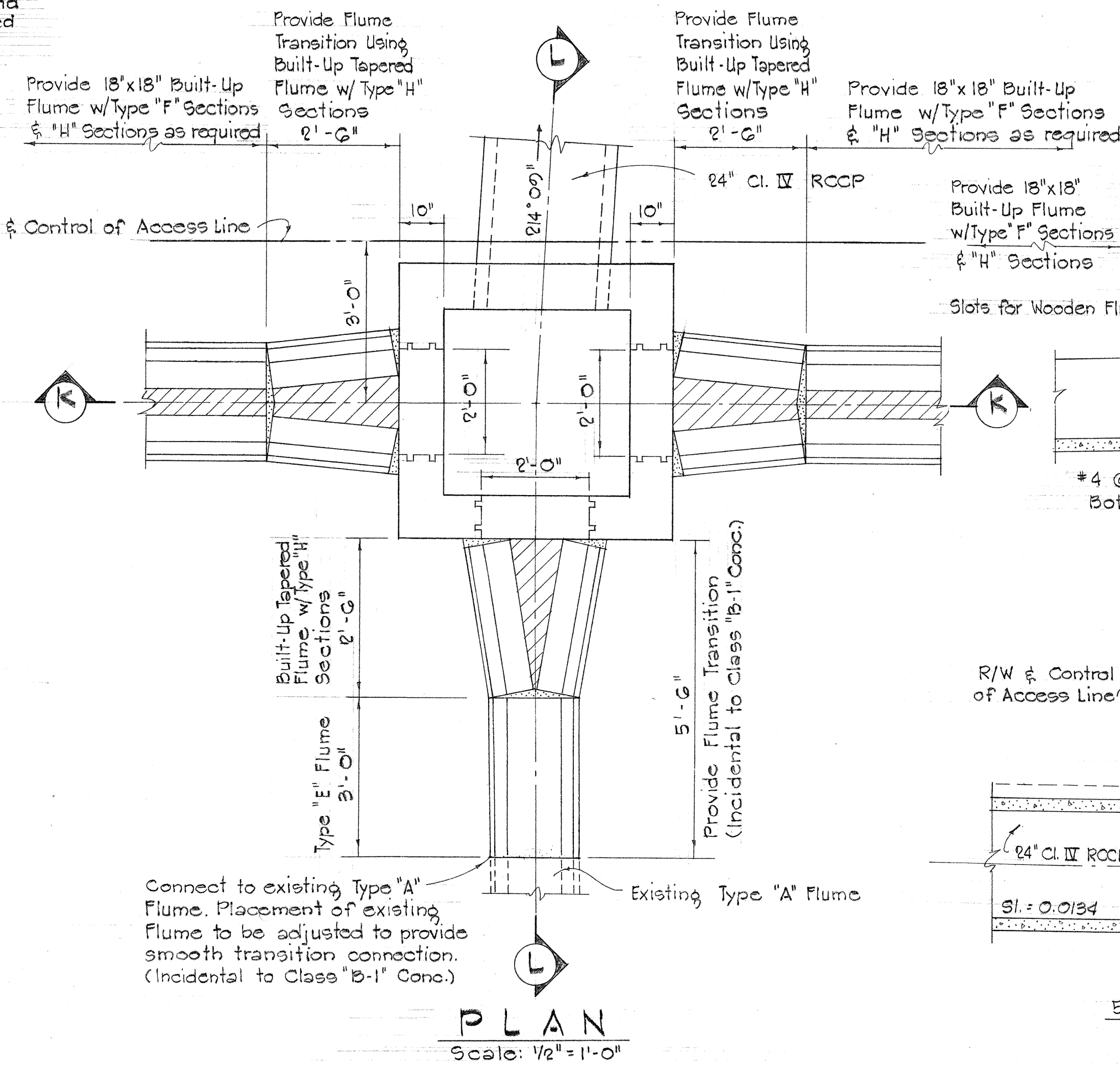
SHEET No. 1 OF 7 SHEETS



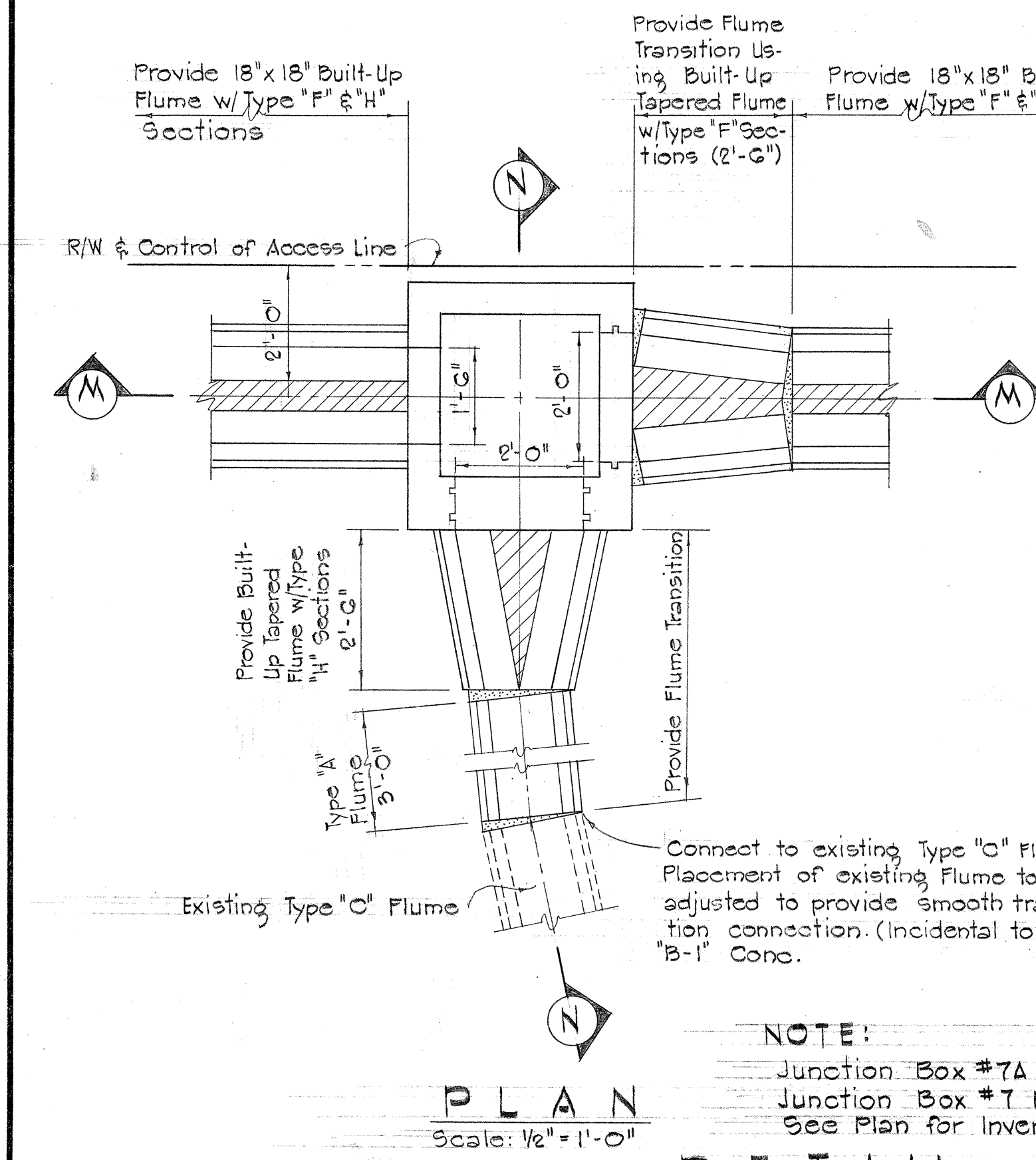
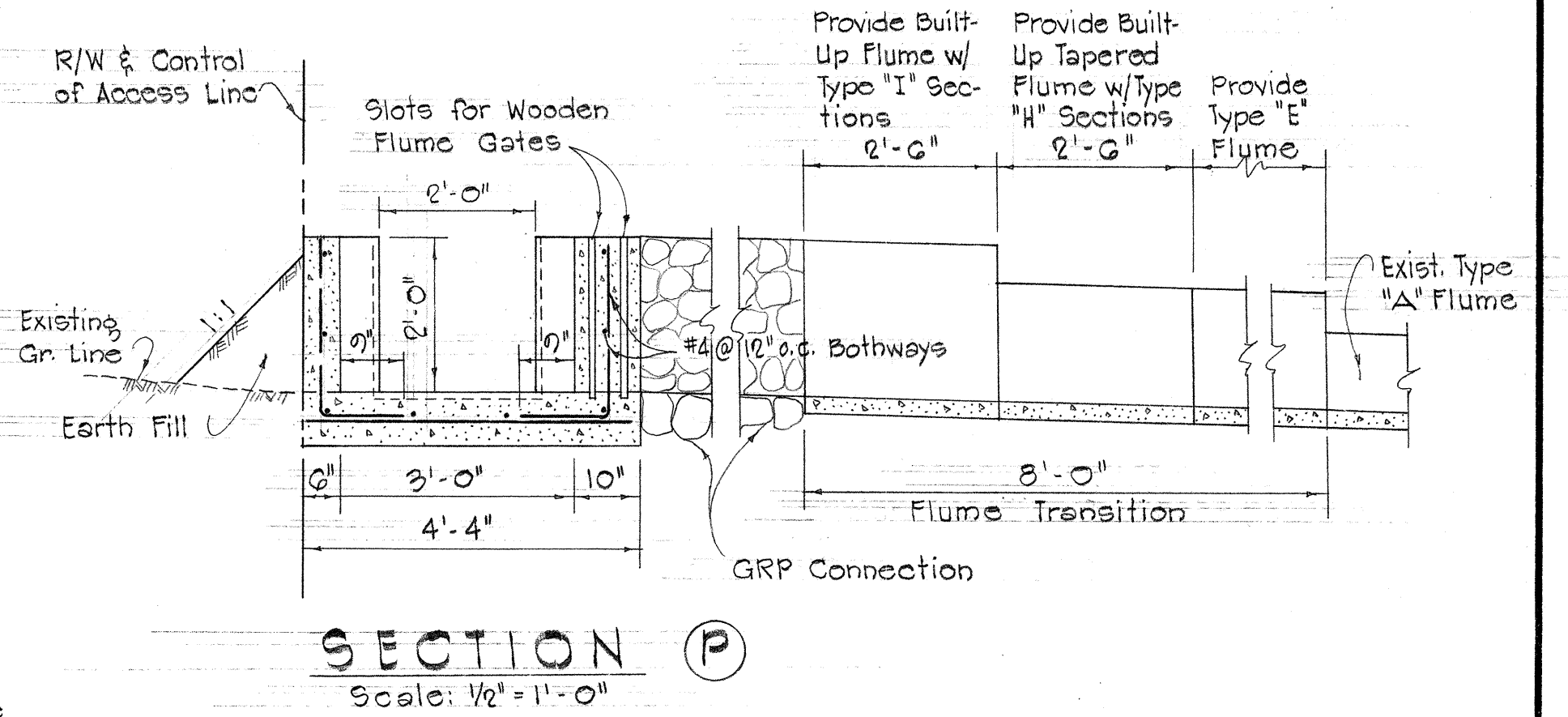
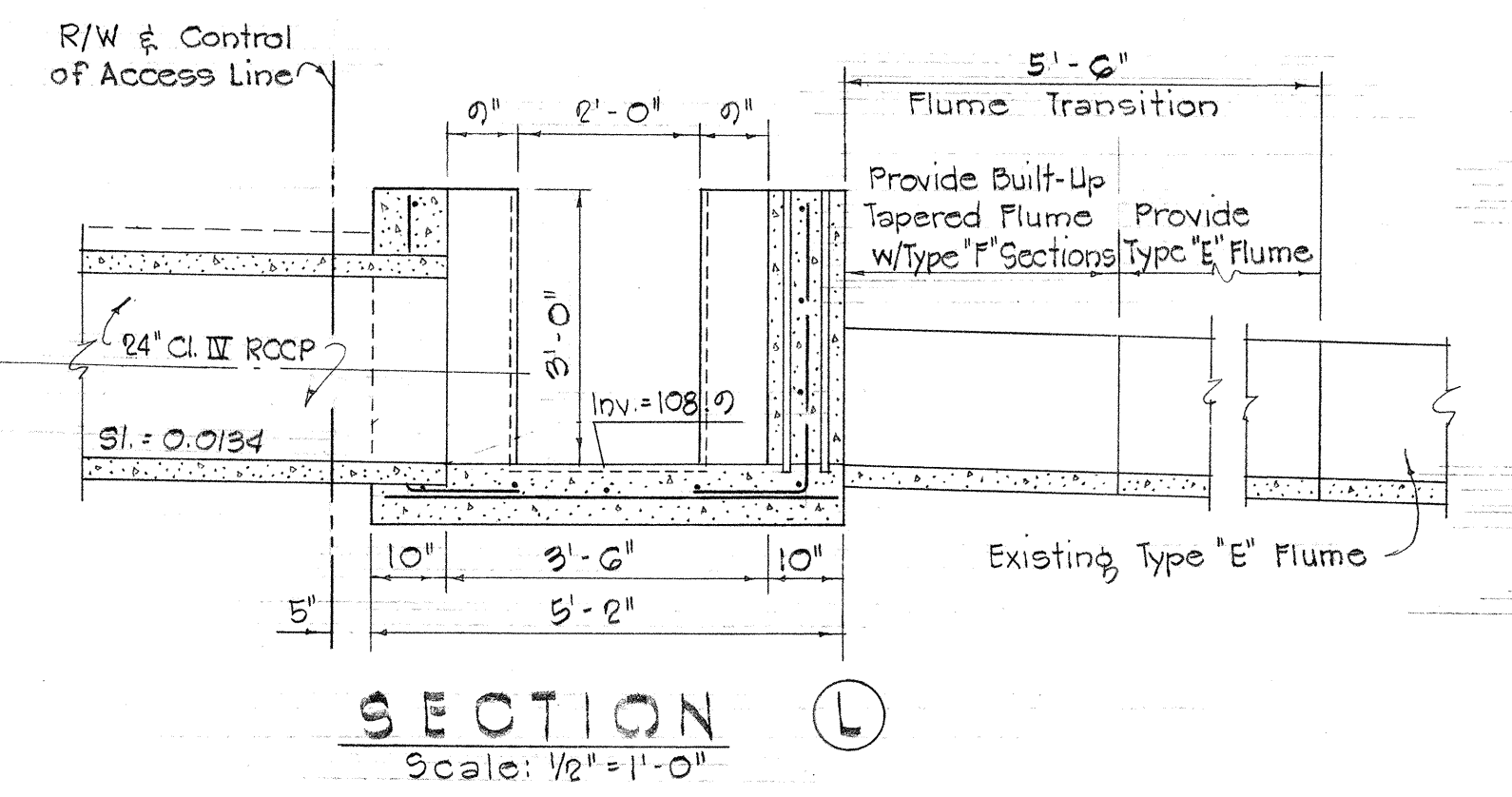
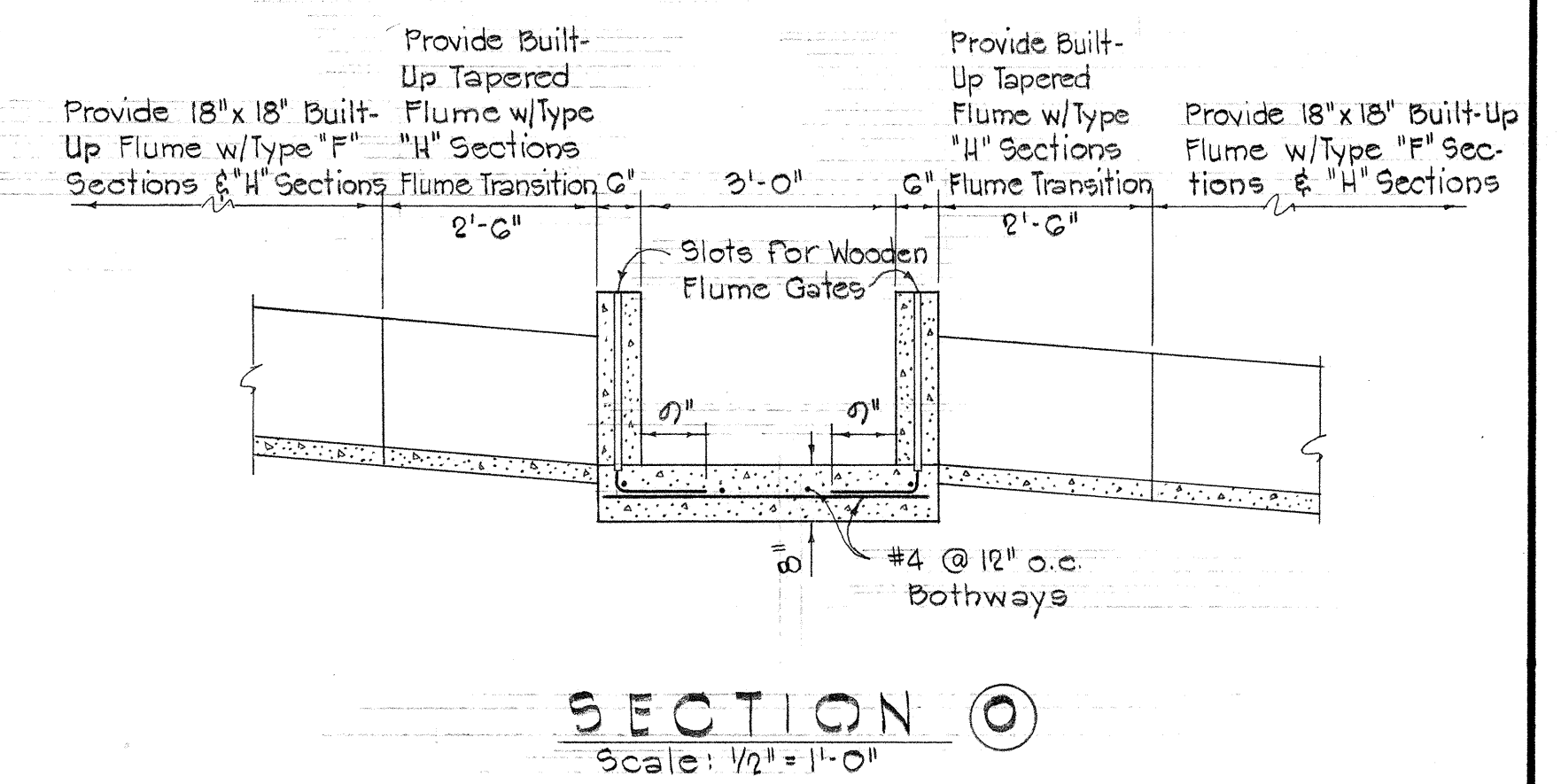
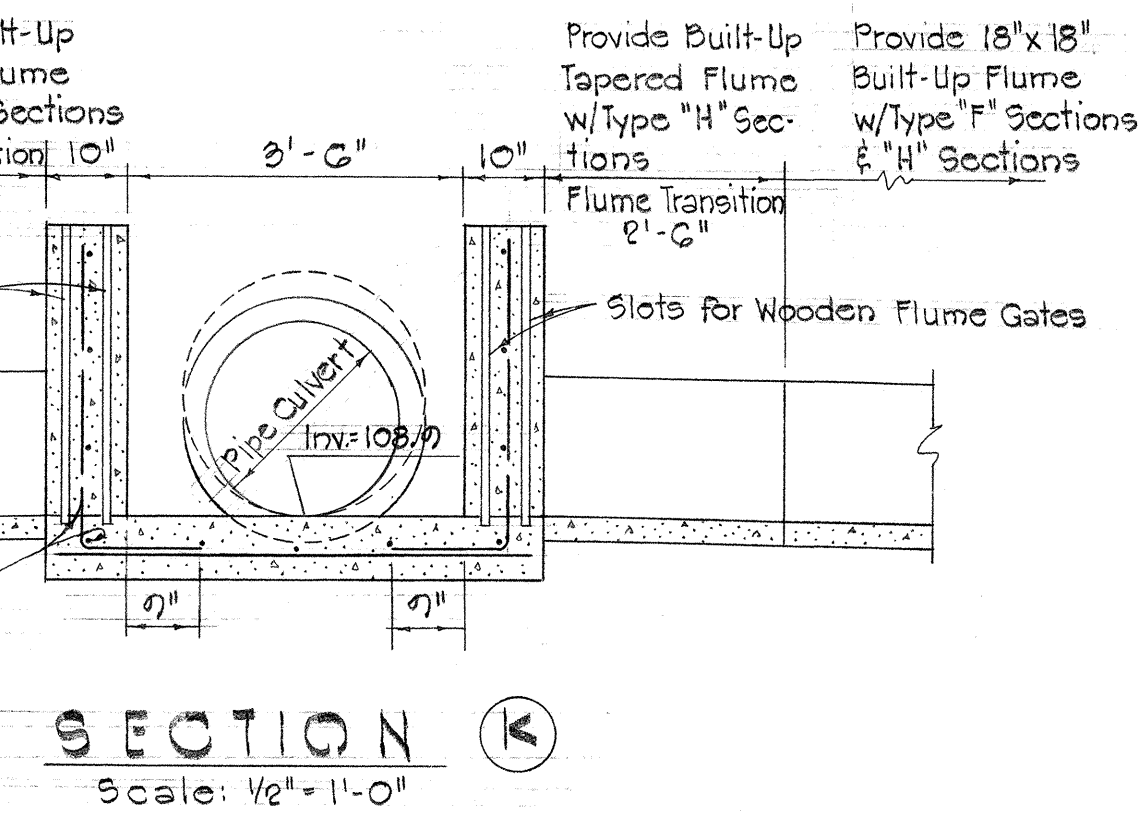
DATE	10/1/65
DESIGNED BY	W.D.Ng
CHECKED BY	W.D.Ng
NOTED BY	W.D.Ng
ORIGINAL	W.D.Ng



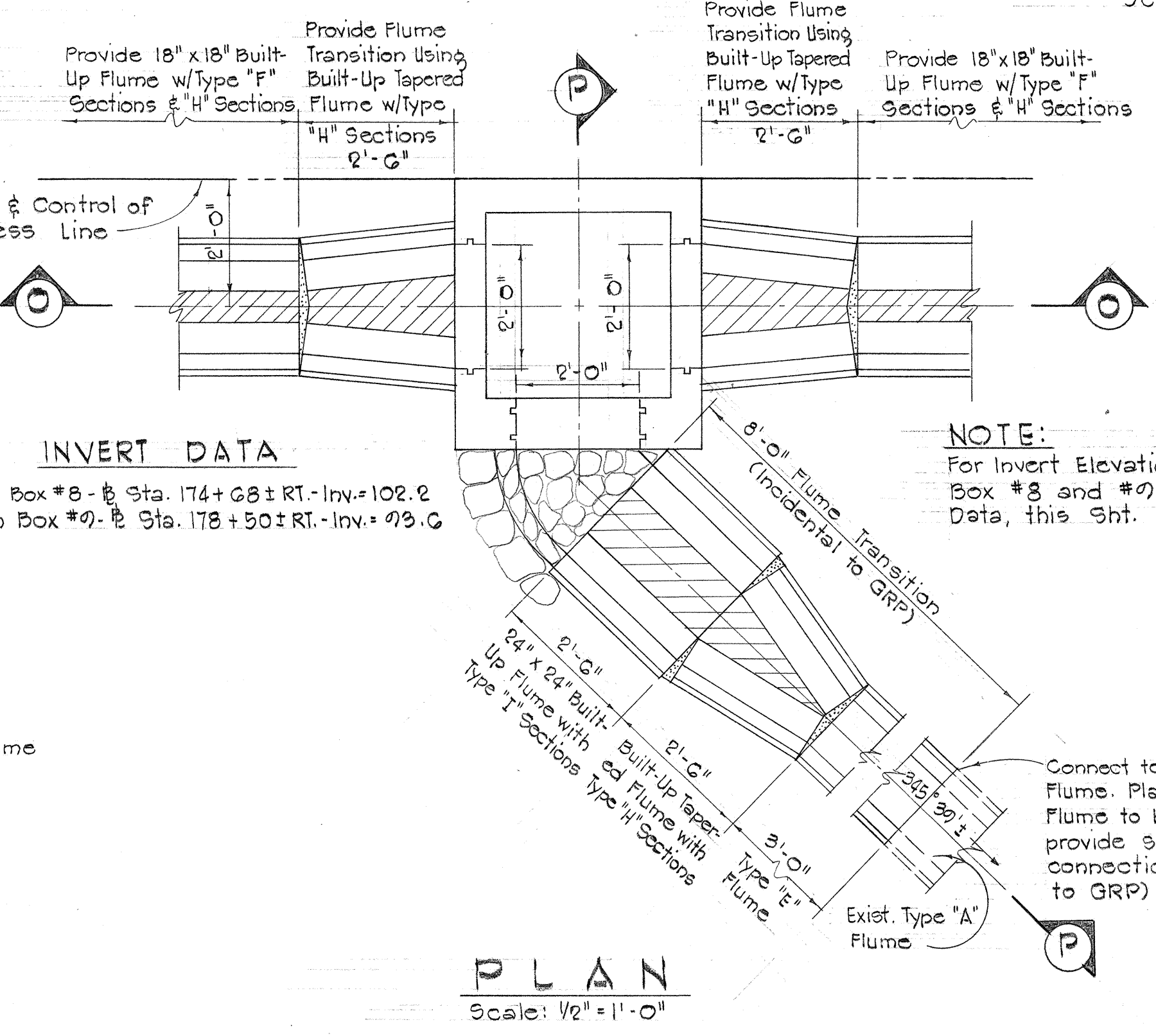
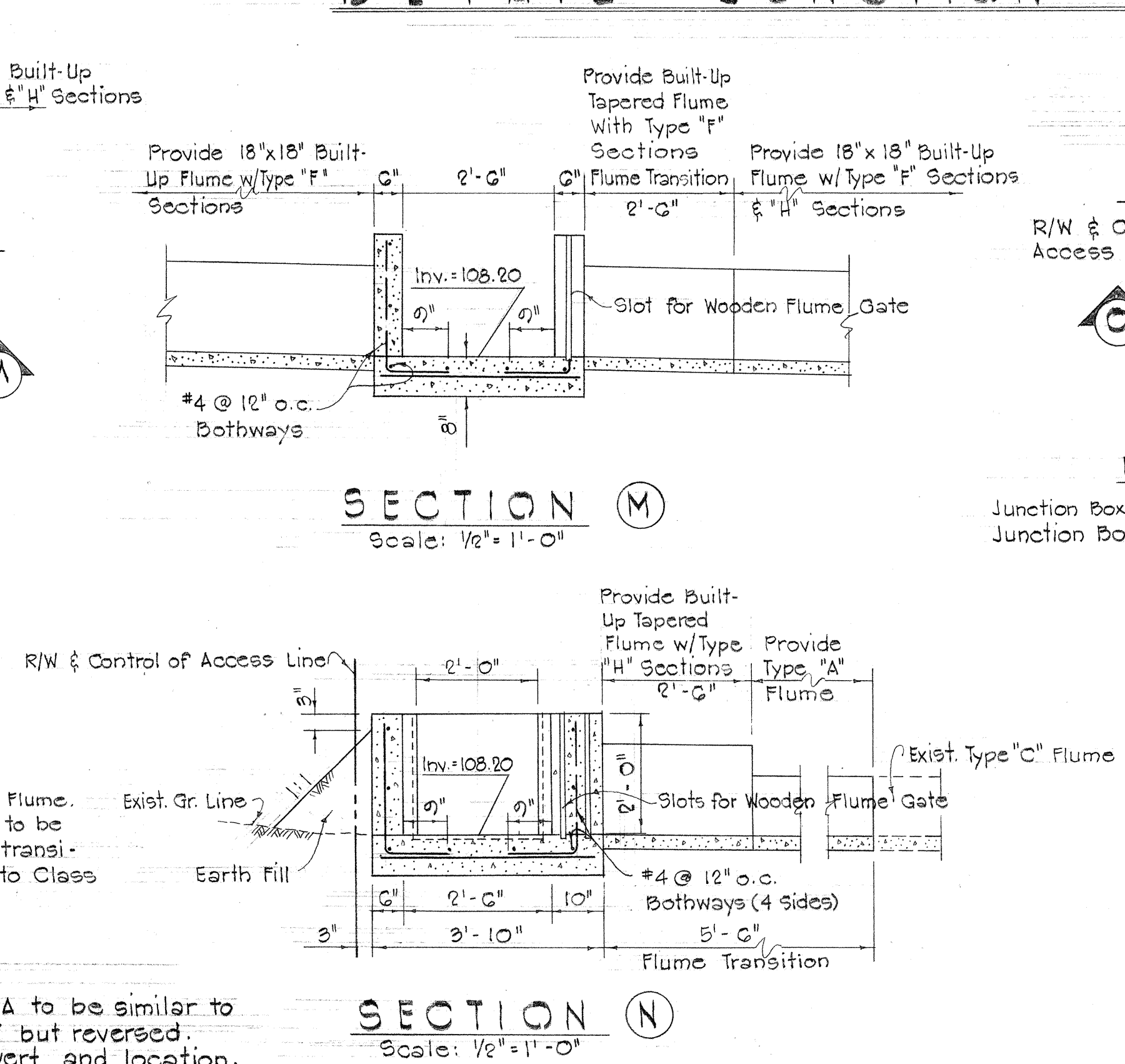
DETAIL - JUNCTION BOX #5



DETAIL - JUNCTION BOX #6



DETAIL - JUNCTION BOX #7 & 7A



DETAIL - JUNCTION BOX #8 & #9

INVERT DATA
Junction Box #8 - Sta. 174+68 ± RT. - Inv. = 102.2
Junction Box #9 - Sta. 178+50 ± RT. - Inv. = 99.9

NOTE:
For Invert Elevations of Junction Box #8 and #9, see Invert Data, this Sht.

Belt, Collins & Associates Ltd.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

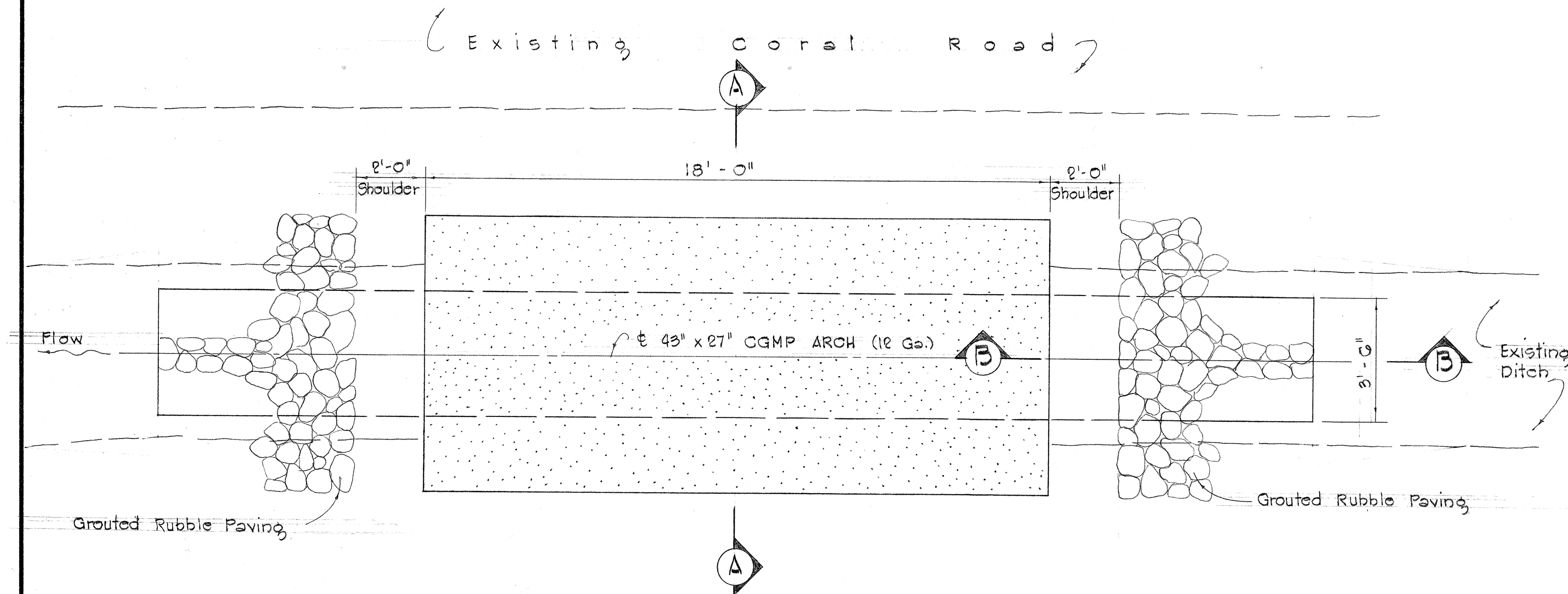
IRRIGATION DETAILS
JUNCTION BOXES #5, #6, #7, #8, #9

FARRINGTON HIGHWAY
PROJECT NO. S-0900(3)

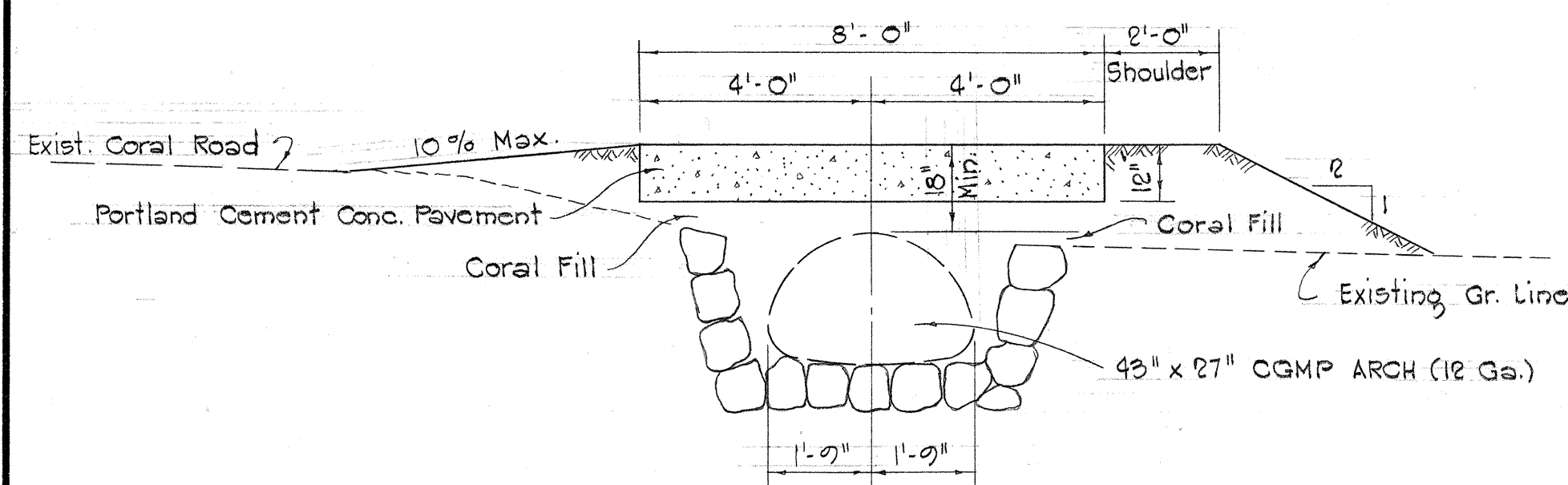
APRIL 1965

SHEET No. 2 OF 7 SHEETS

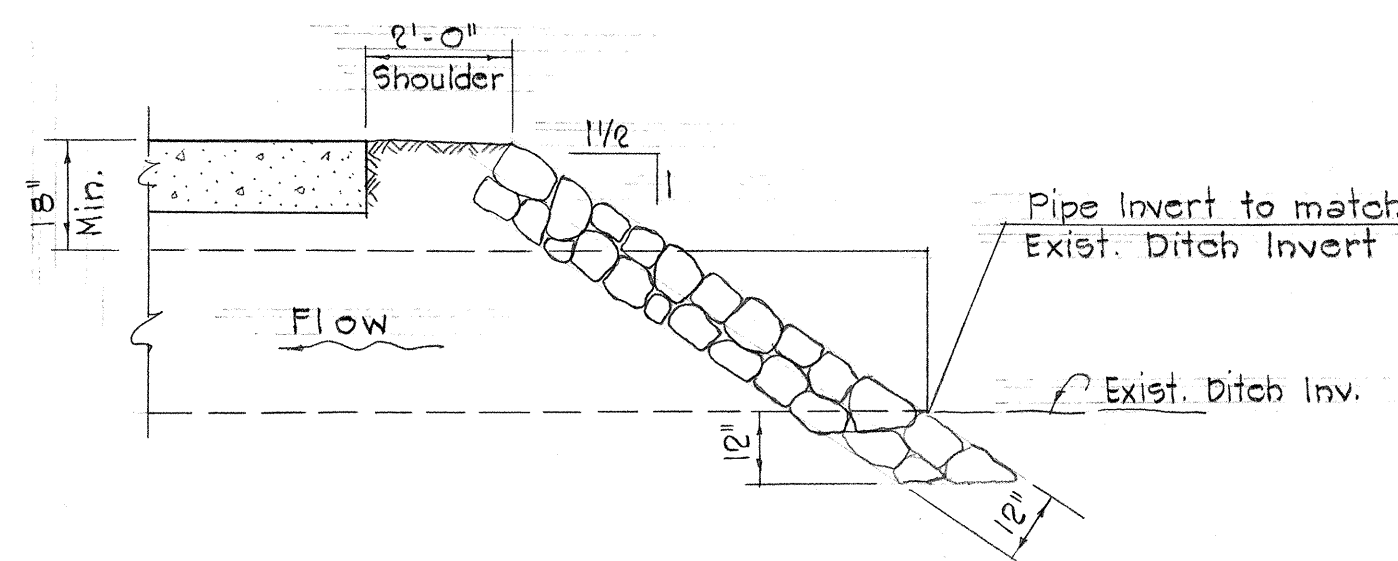
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	S-0900(3)	1965	105	162



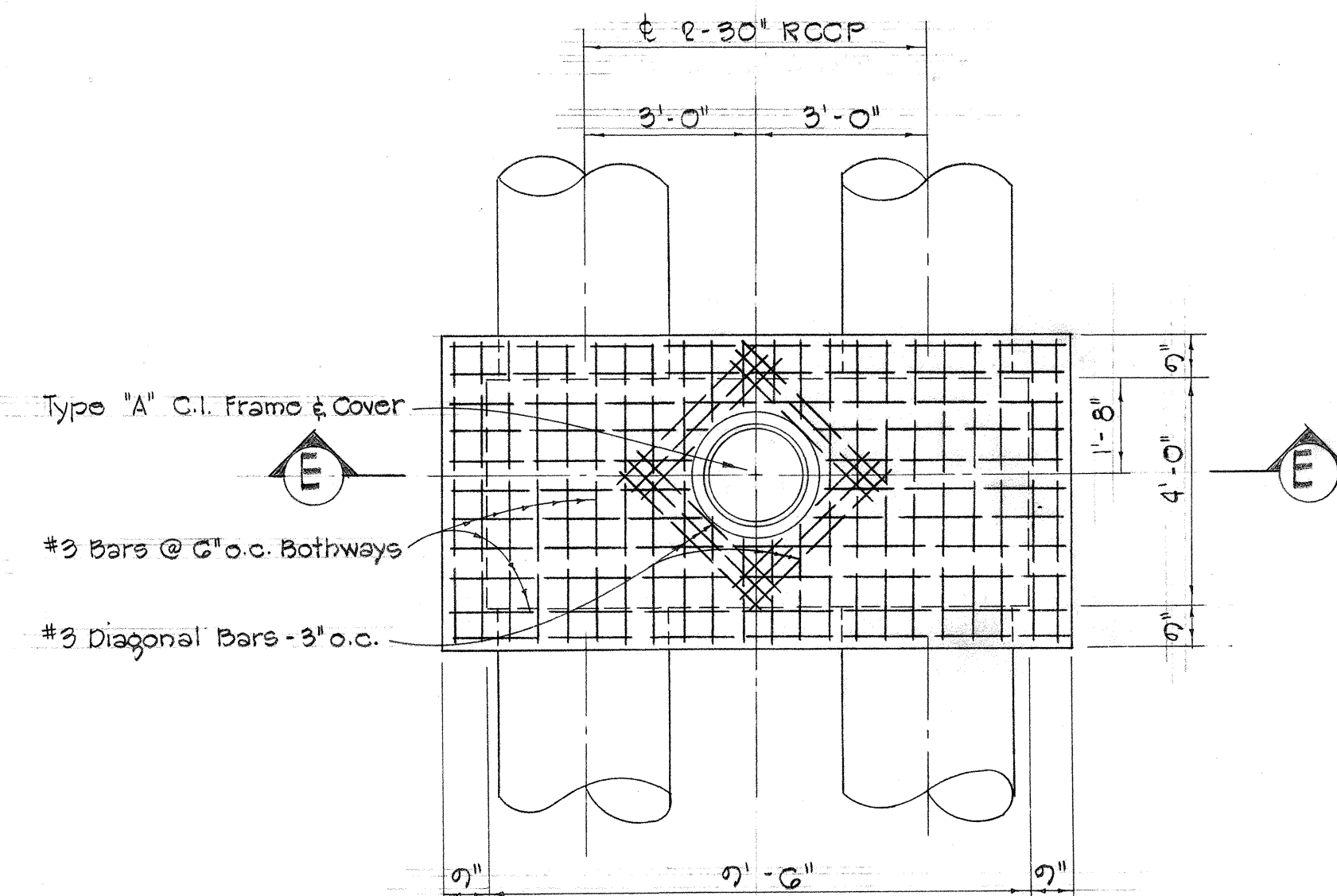
18' WIDE CONC. EQUIPMENT CROSSING
 @ STA. 186+00±, 103' 9/16 LT.
 Scale: 3/8" = 1'-0"



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

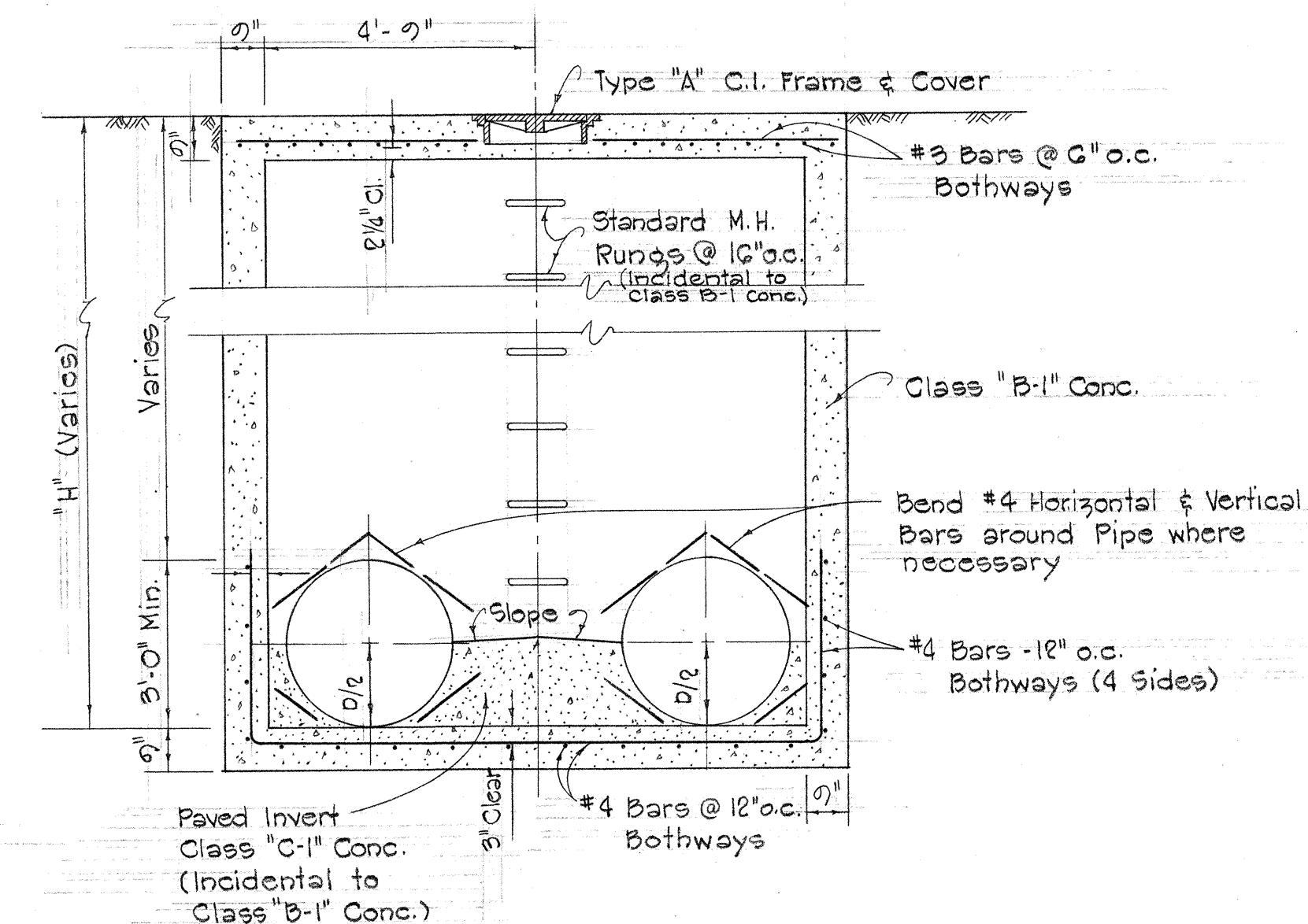


SECTION B
 Scale: 3/8" = 1'-0"



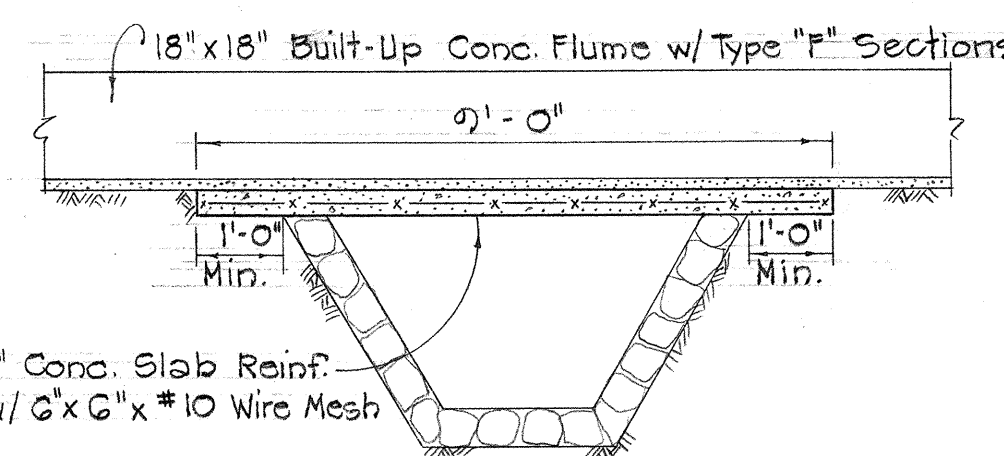
NOTE: Manhole Invert shall be sloped to match Pipe Culvert Invert.

PLAN

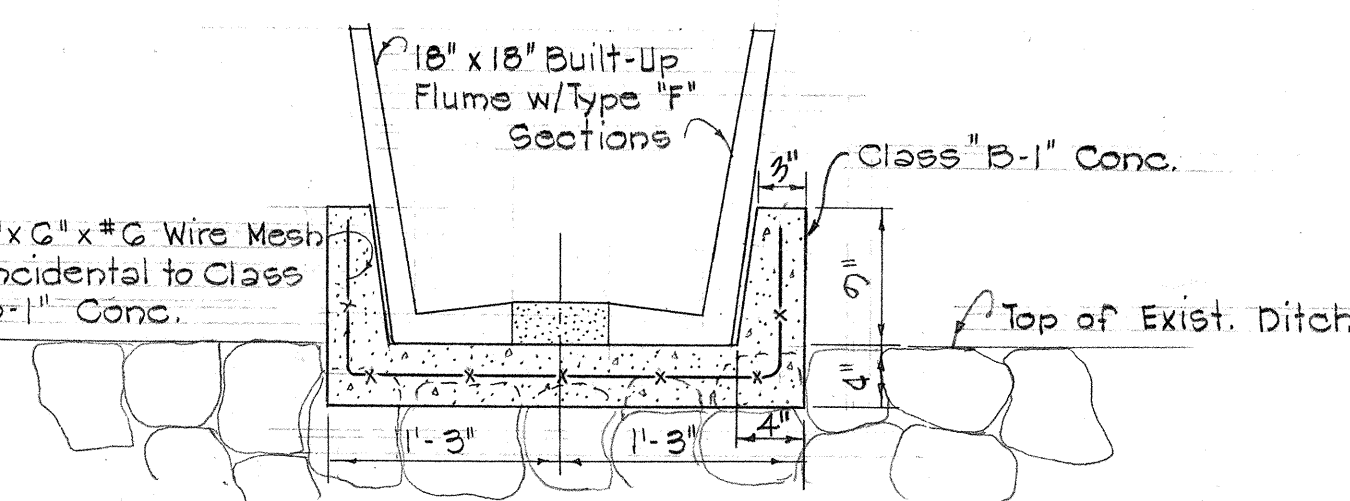


SECTION E

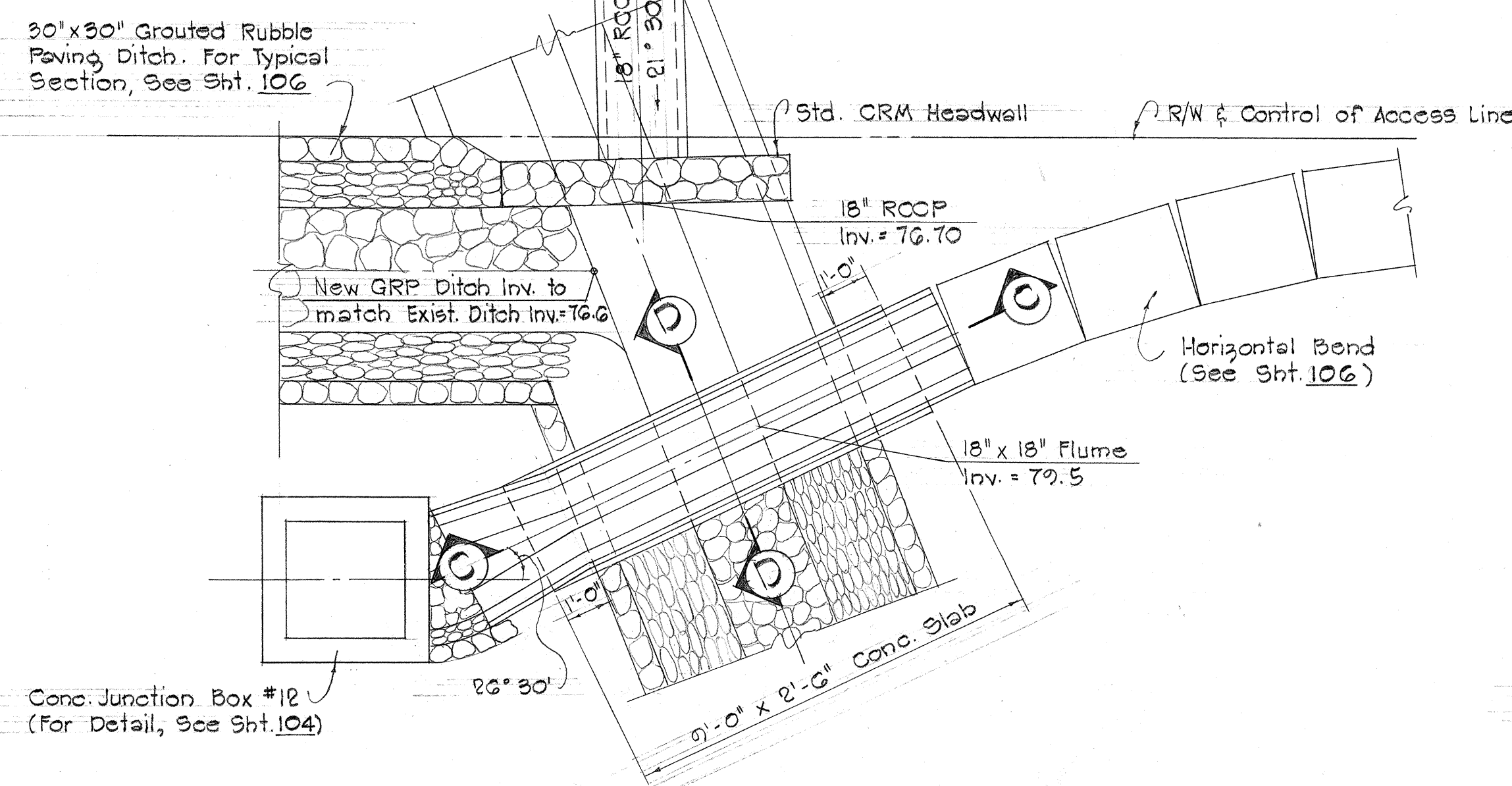
DETAIL OF CONCRETE MANHOLE
 Scale: 3/8" = 1'-0"



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



SECTION D
 Scale: 1" = 1'-0"



DITCH CROSSING DETAIL
 @ STA. 204+08±, 110' 9/16 RT.
 Scale: 3/8" = 1'-0"

Belt, Collins & Associates Ltd.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

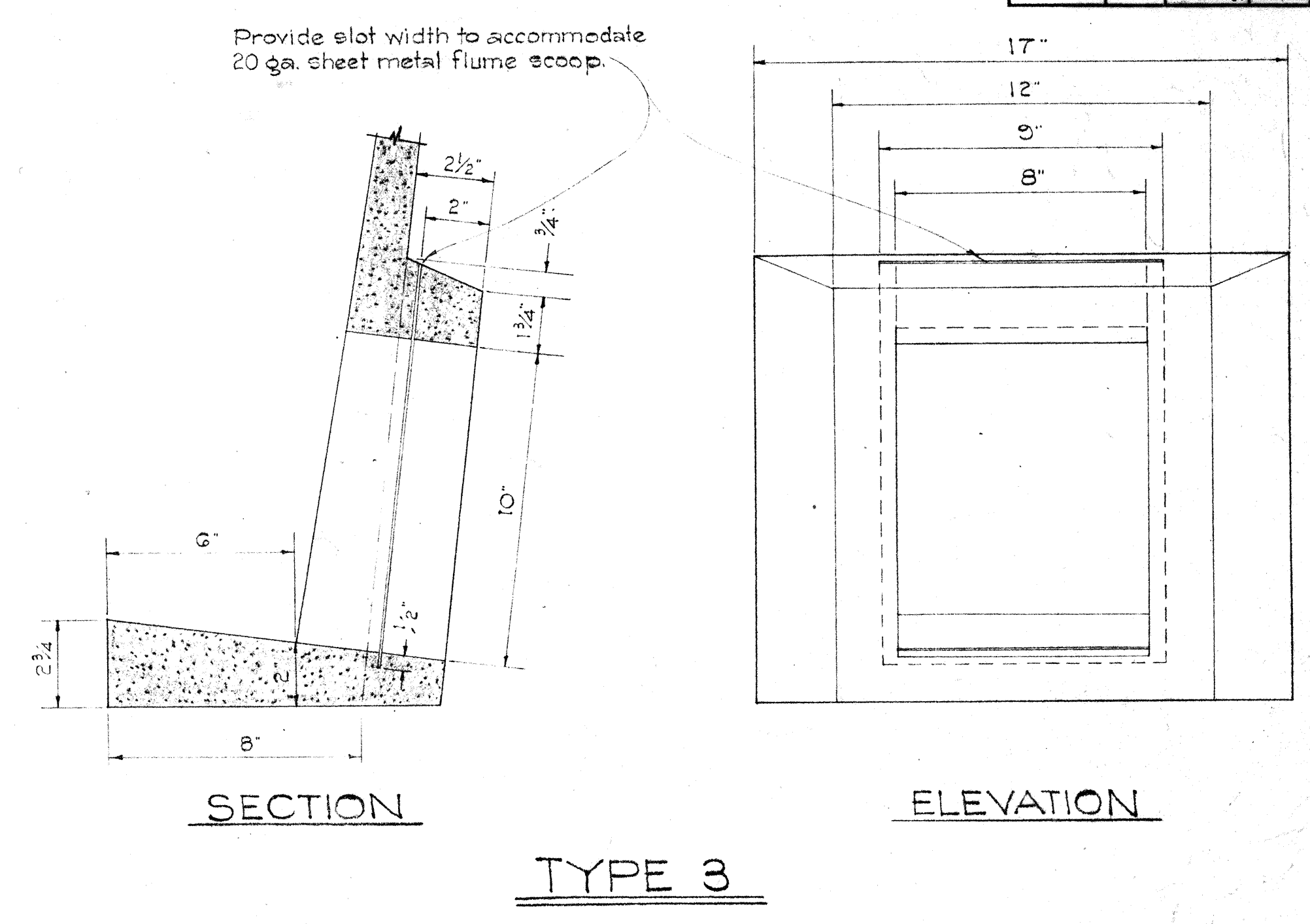
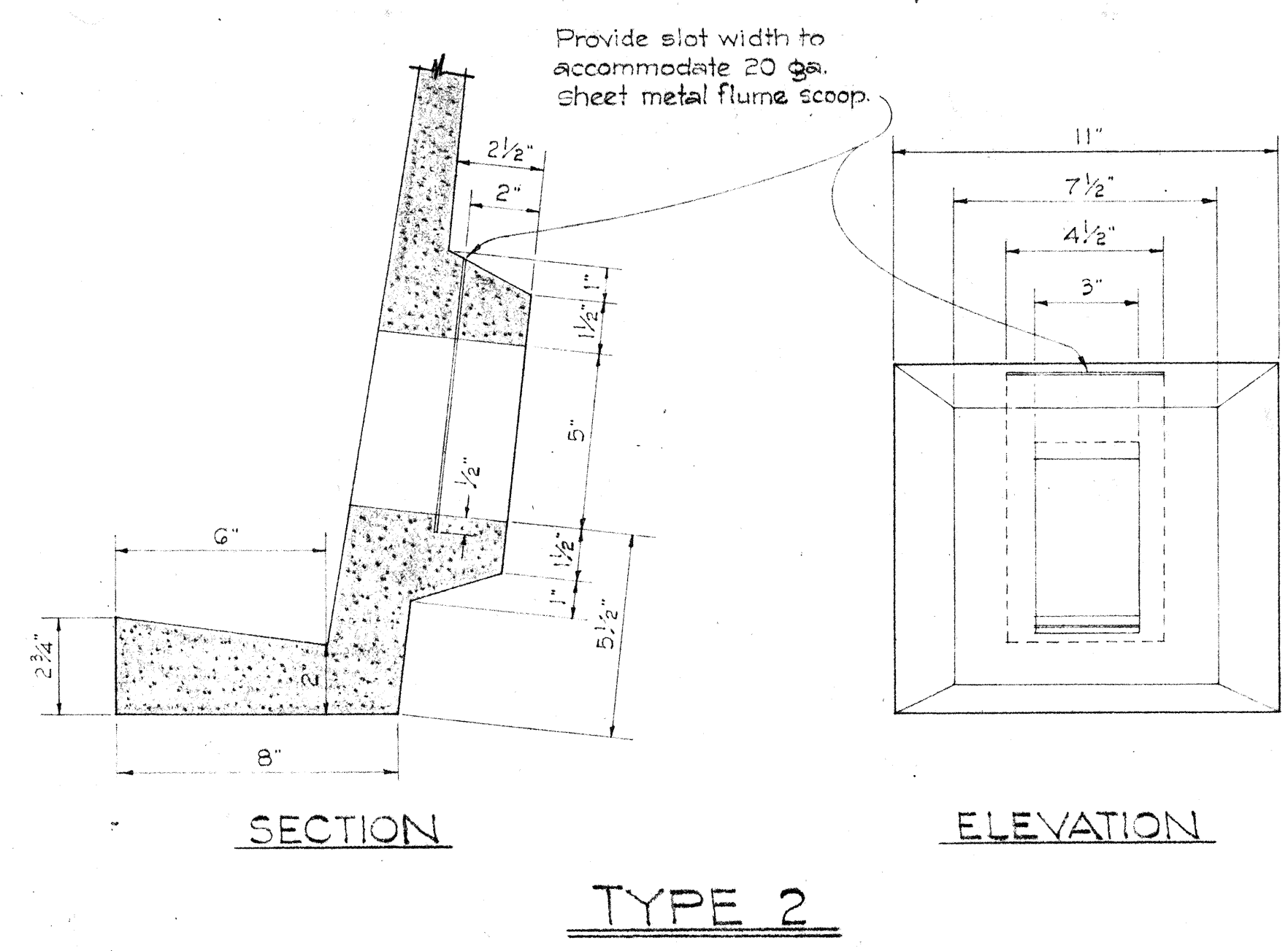
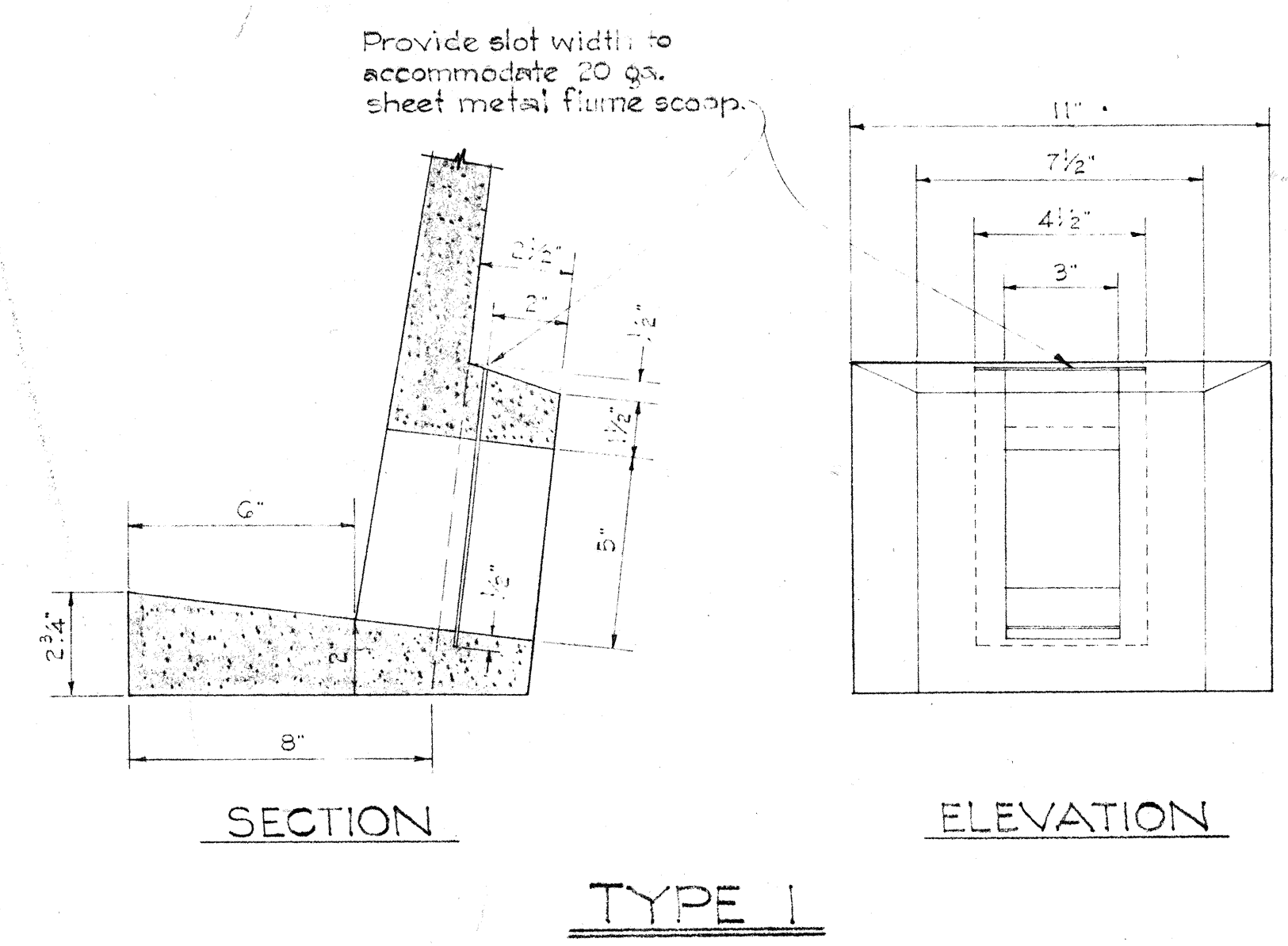
IRRIGATION DETAILS

FARRINGTON HIGHWAY
 PROJECT NO. S-0900(3)

APRIL 1965

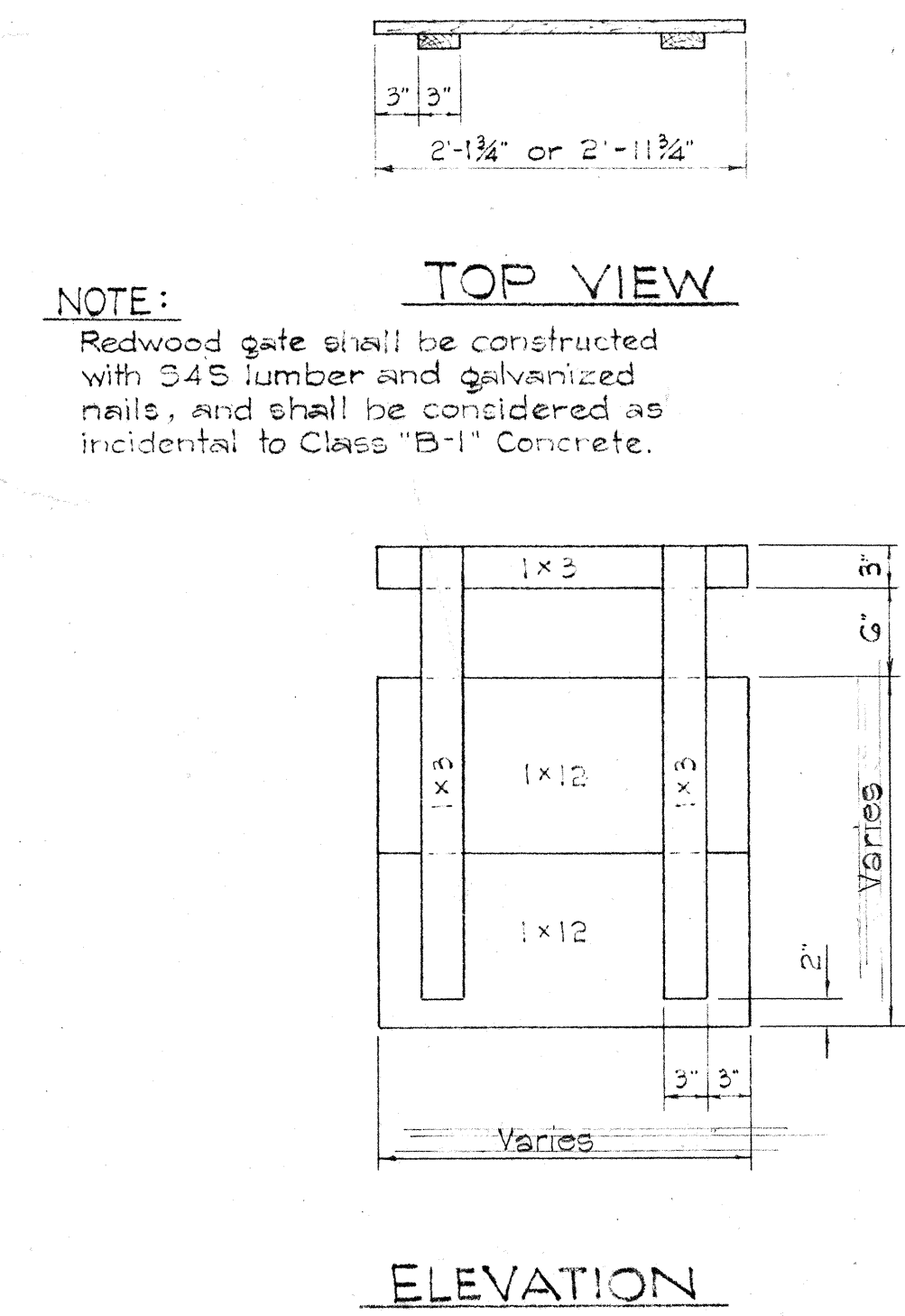
SHEET No. 4 OF 7 SHEETS

105

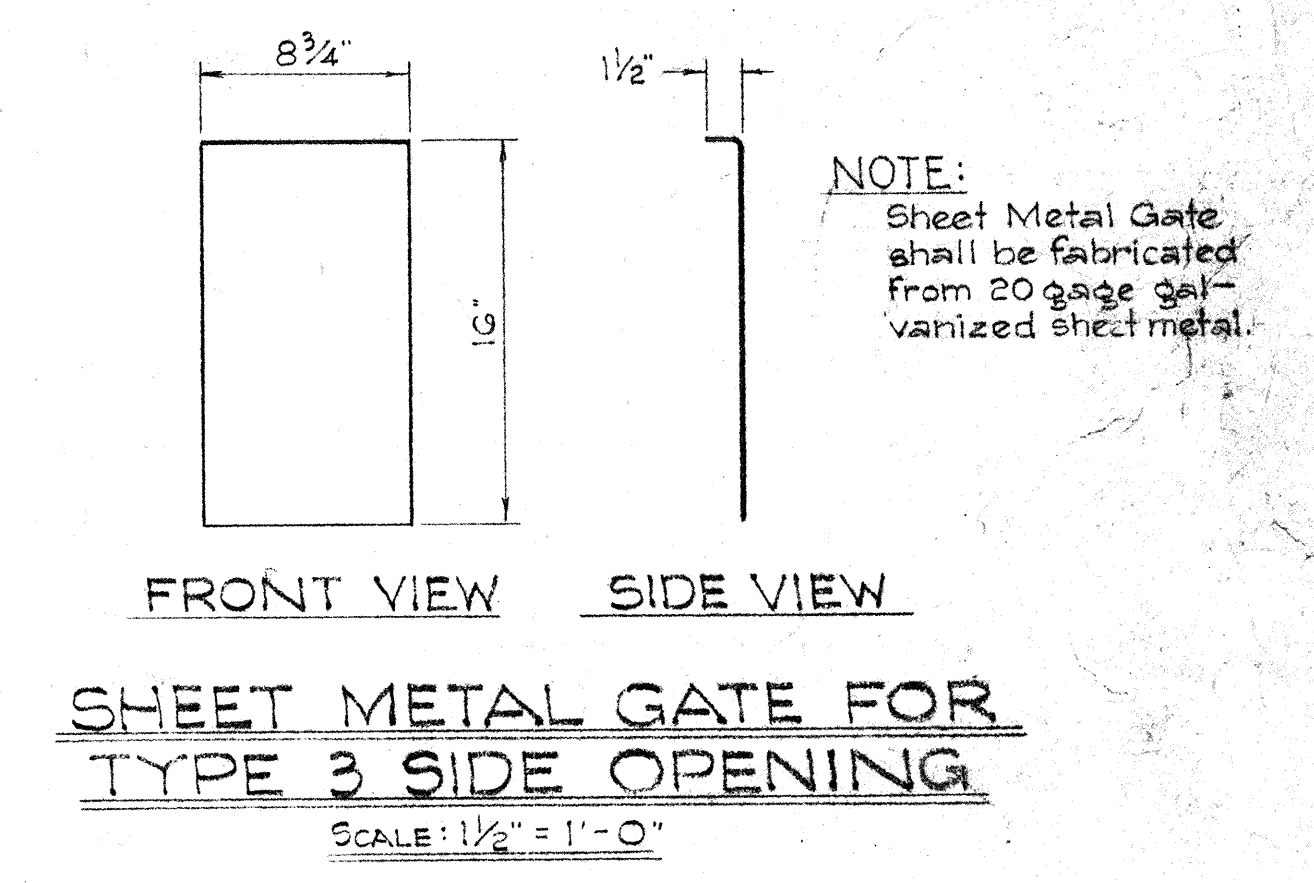
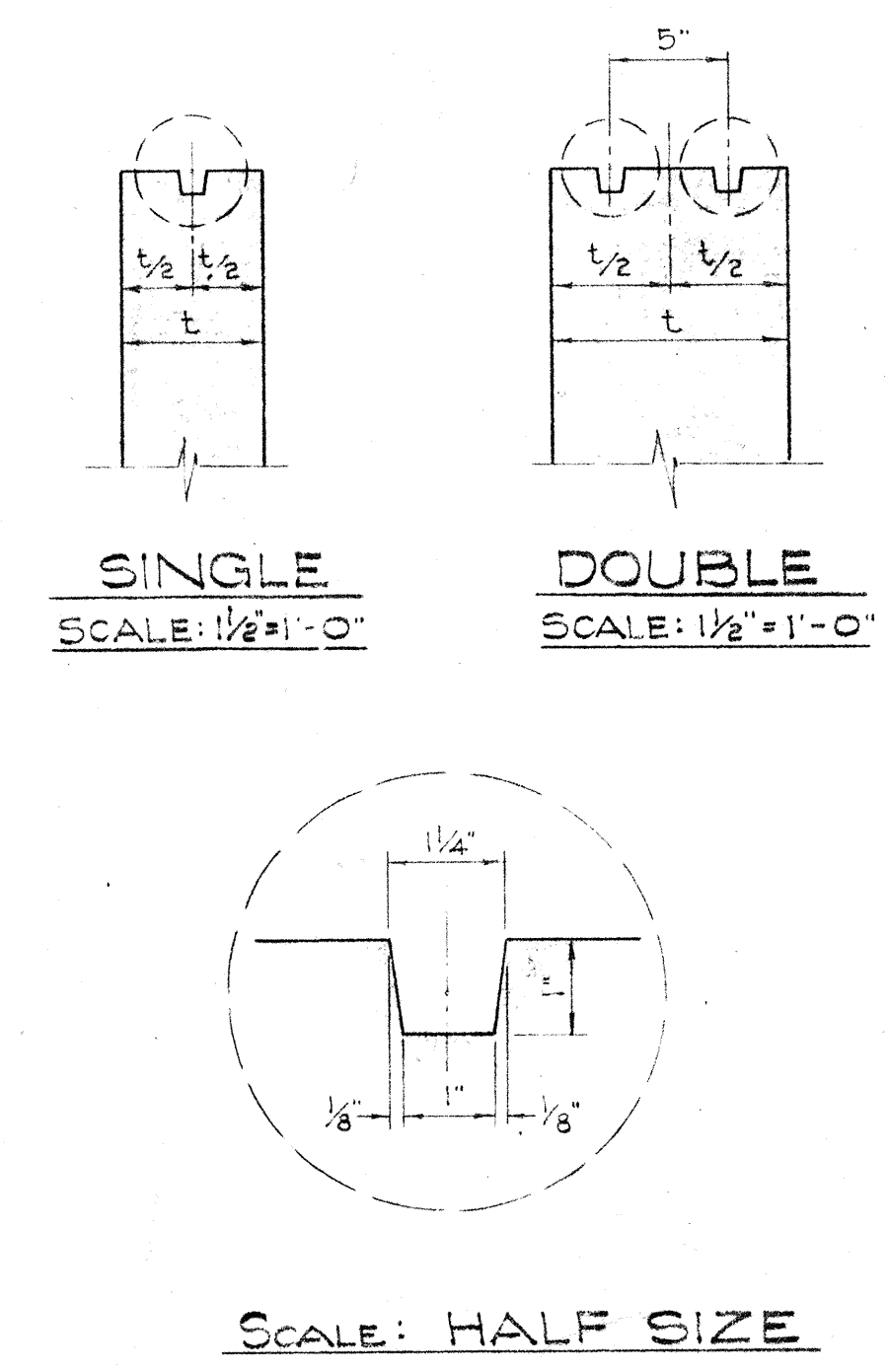
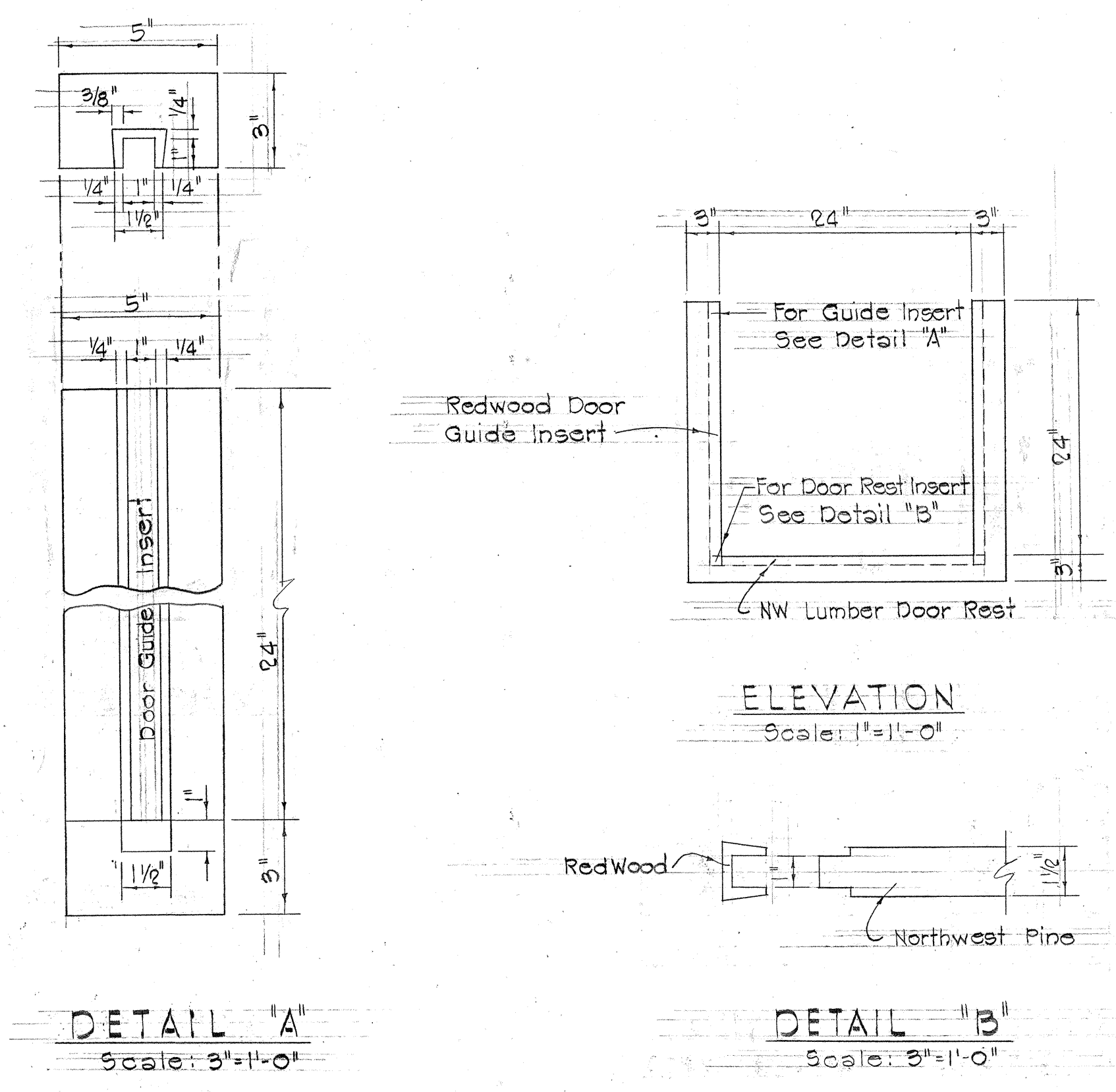


DETAILS OF SIDE OPENINGS

SCALE: 3" = 1'-0"



NOTE:
Redwood gate shall be constructed with 3/4" lumber and galvanized nails, and shall be considered as incidental to Class "B-1" Concrete.



Belt, Collins & Associates Ltd.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

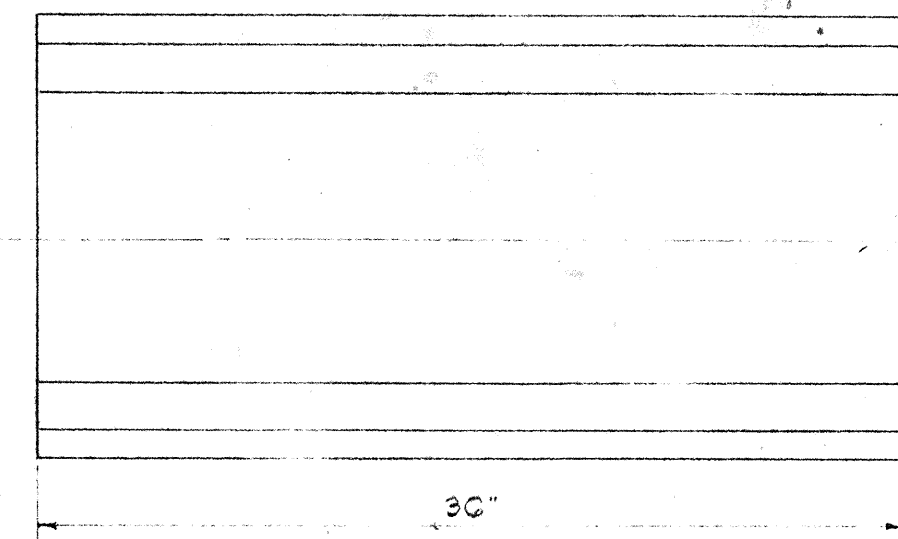
IRRIGATION DETAILS

FARRINGTON HIGHWAY
PROJECT NO S-0900(3)
APRIL 1965

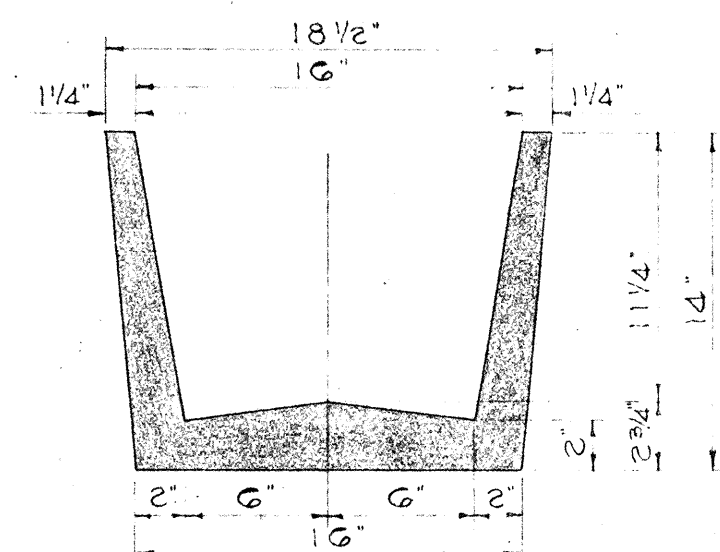
SHEET No. 6 OF 7 SHEETS

SURVEY PLOTTED BY: DATE: _____
 DRAWN BY: _____
 TRACED BY: _____
 NOTE BOOK NO. _____
 CHECKED BY: _____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	S-09000(3)	1965	108	162

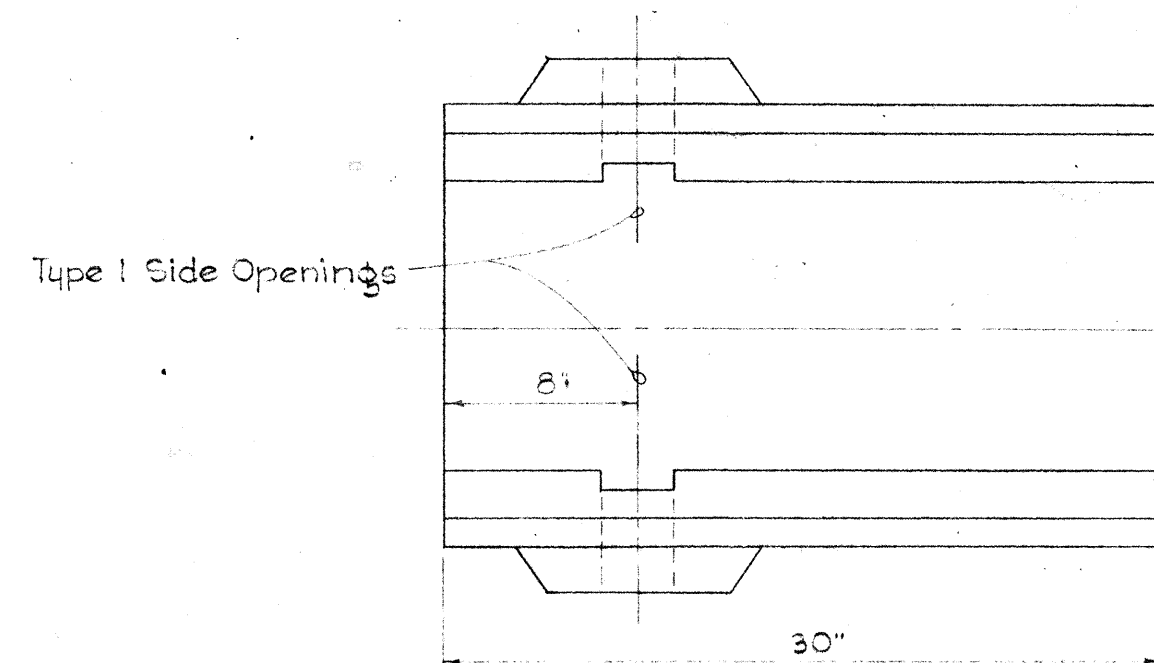


PLAN

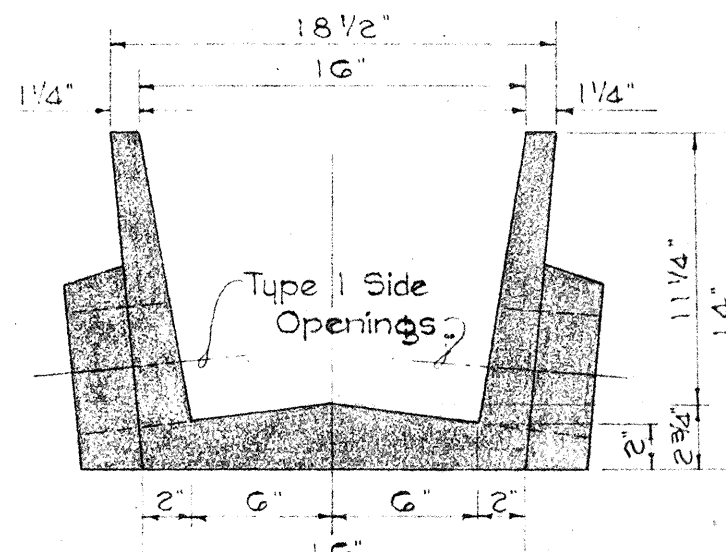


ELEVATION

TYPE "A" FLUME

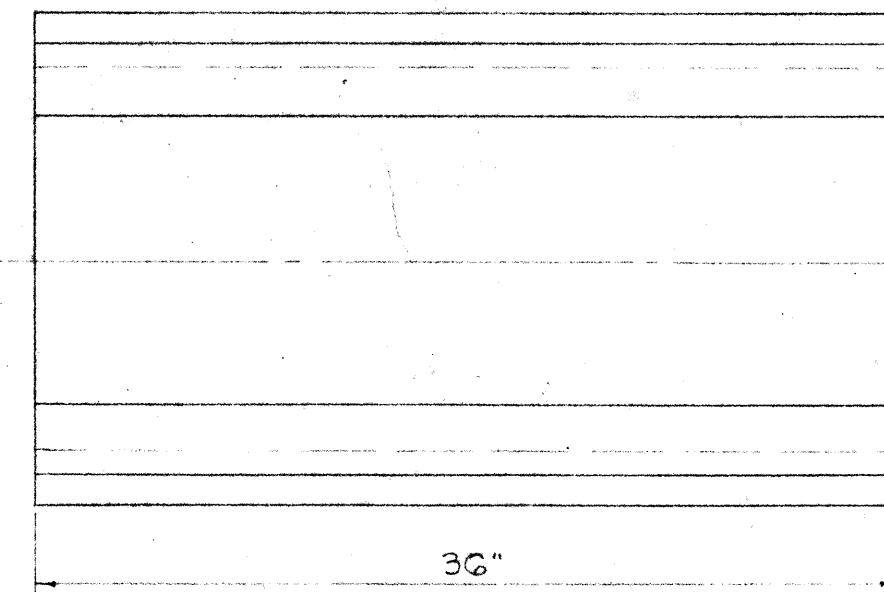


PLAN

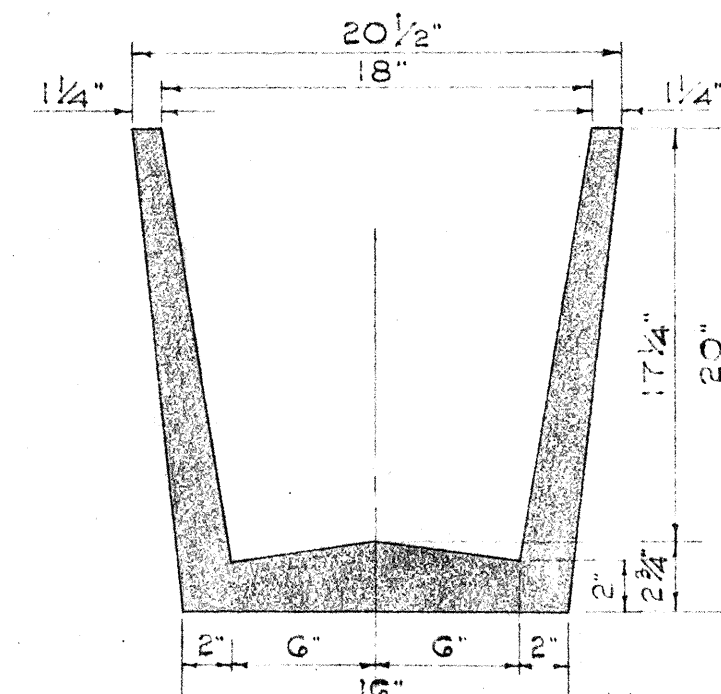


ELEVATION

TYPE "C" FLUME

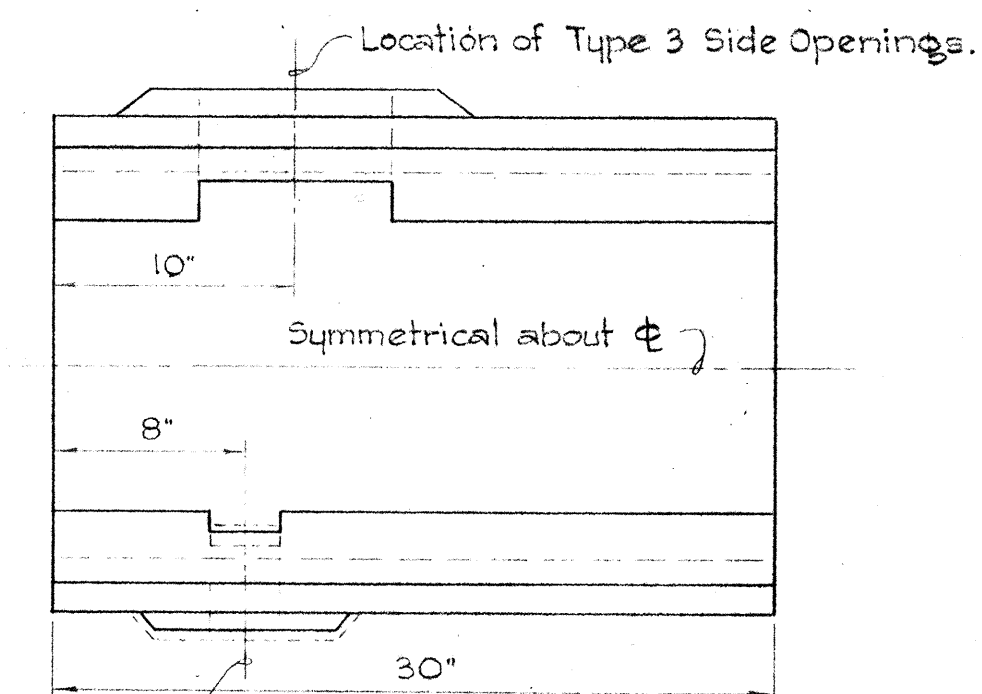


PLAN



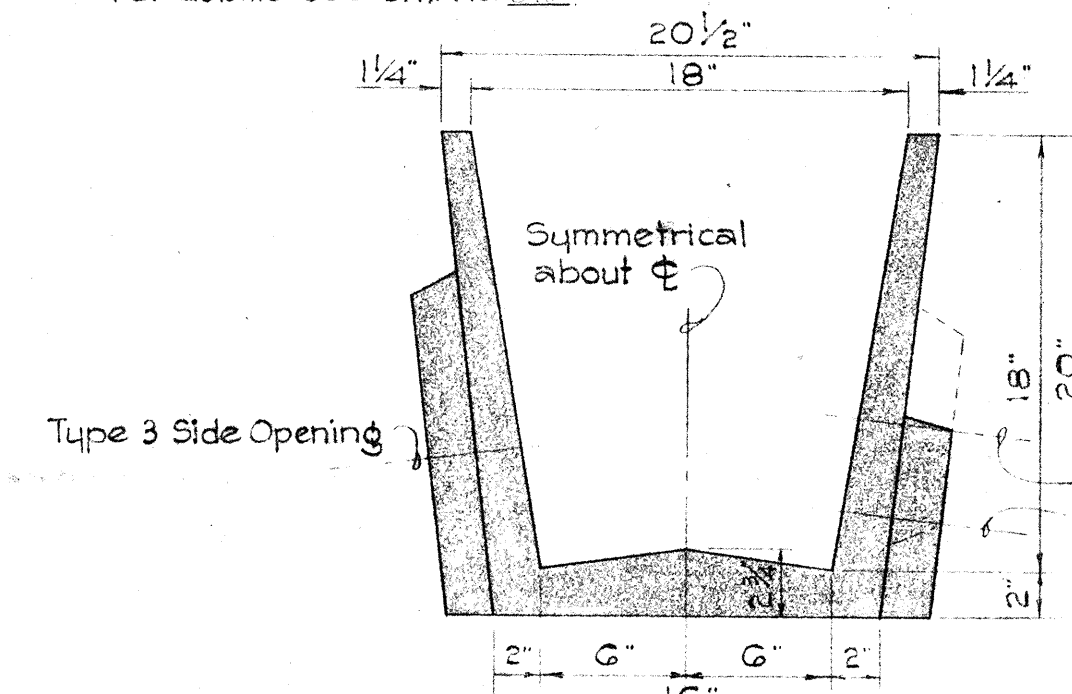
ELEVATION

TYPE "E" FLUME



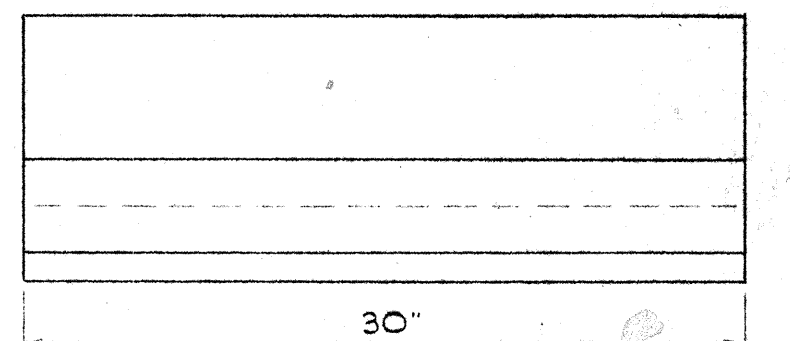
PLAN

Location of Types 1 & 2 Side Openings. For details See Sht. No. 107

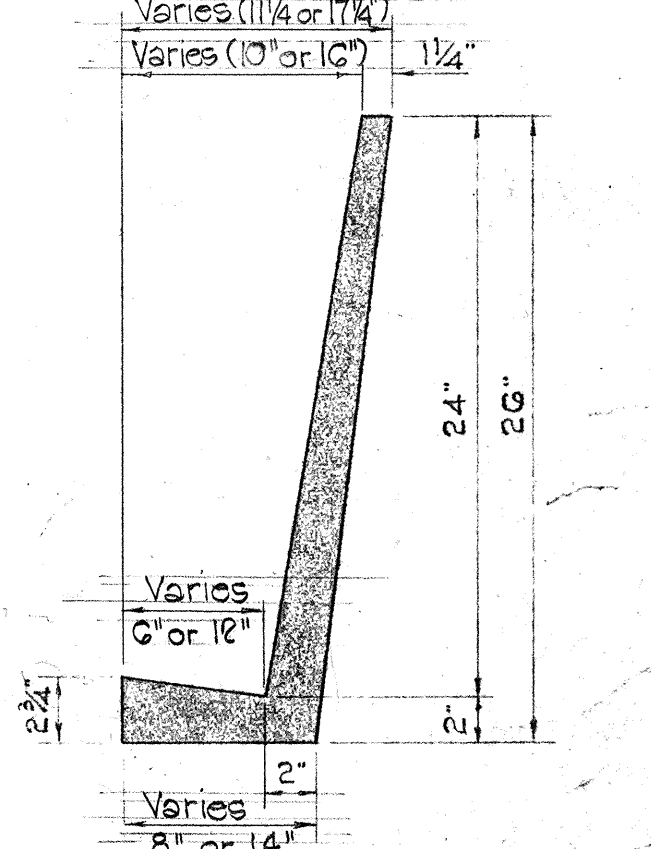


ELEVATION

TYPE "G" FLUME

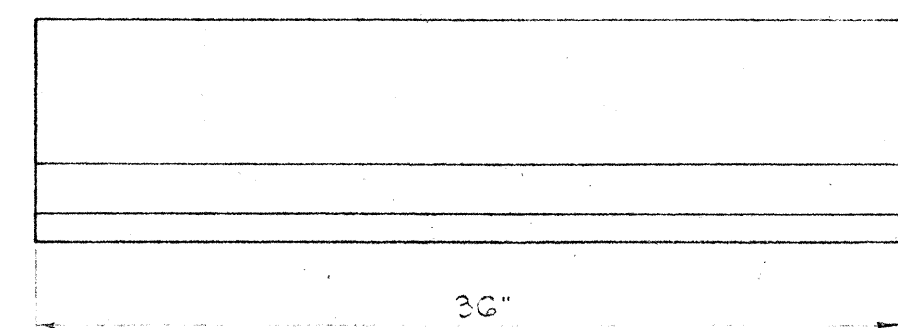


PLAN

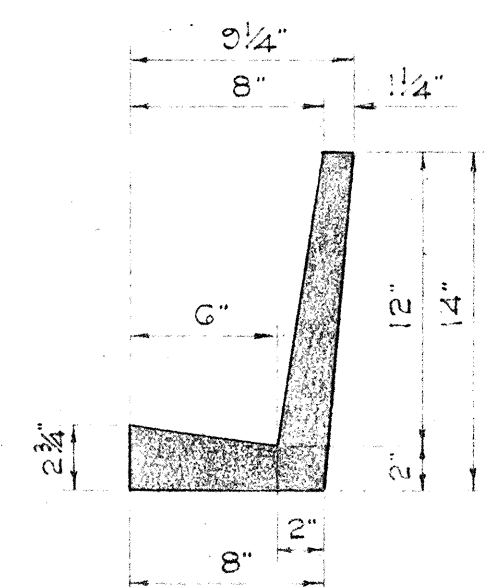


ELEVATION

TYPE "I" SECTION

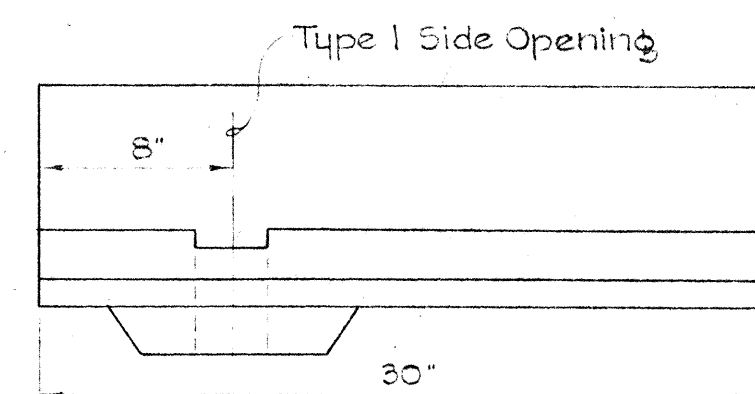


PLAN

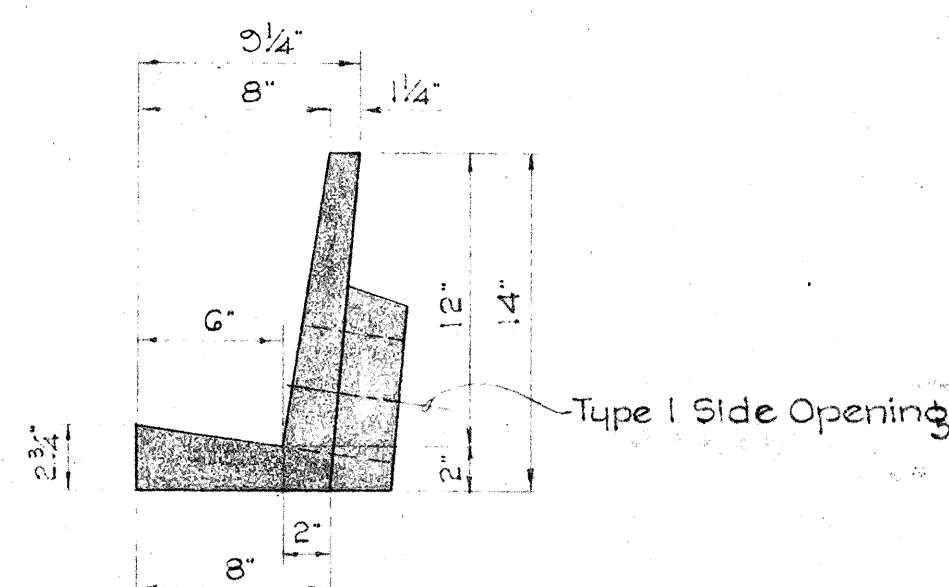


ELEVATION

TYPE "B" SECTION

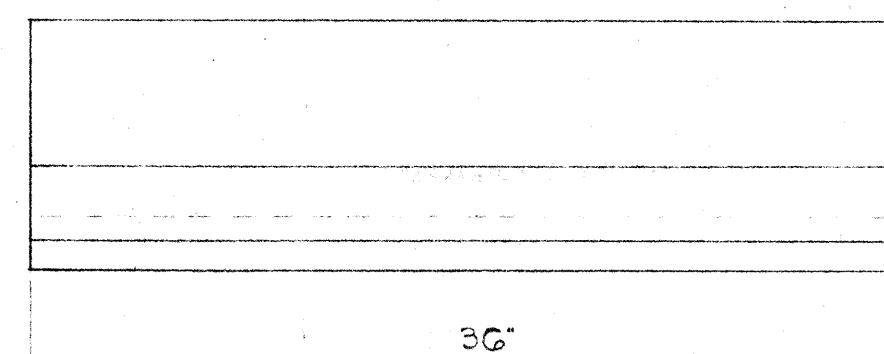


PLAN

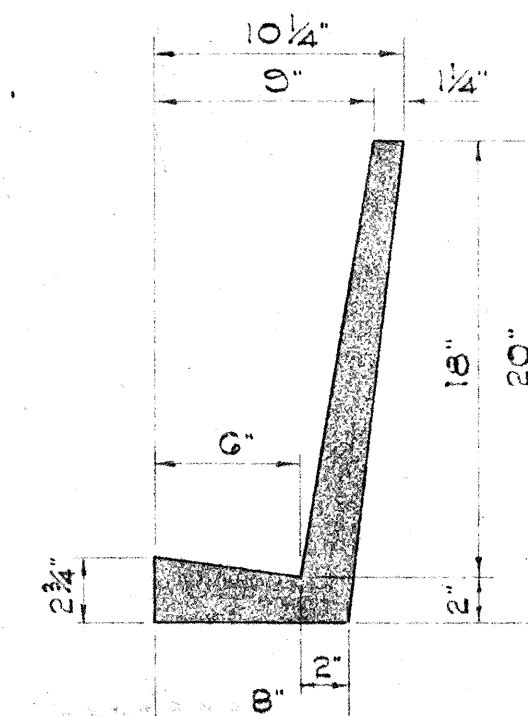


ELEVATION

TYPE "D" SECTION

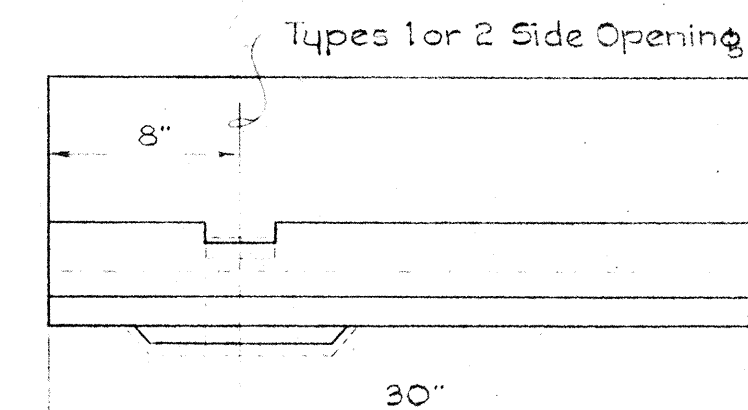


PLAN

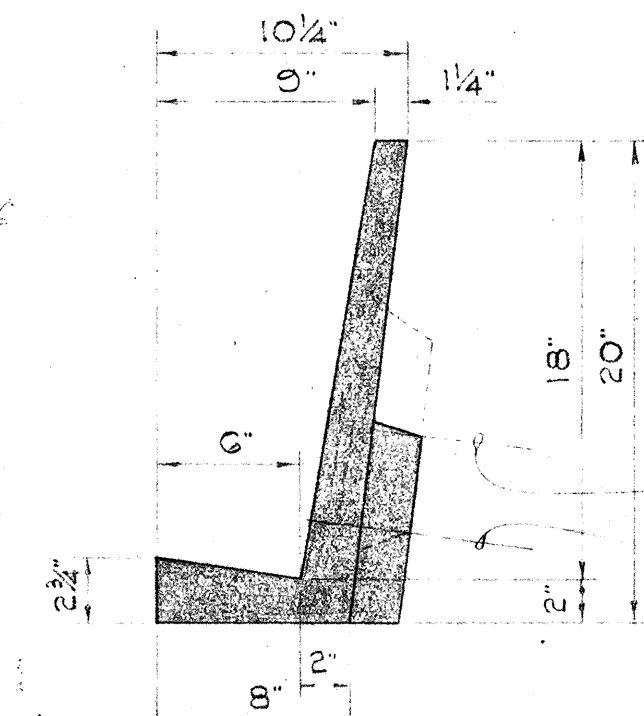


ELEVATION

TYPE "F" SECTION



PLAN

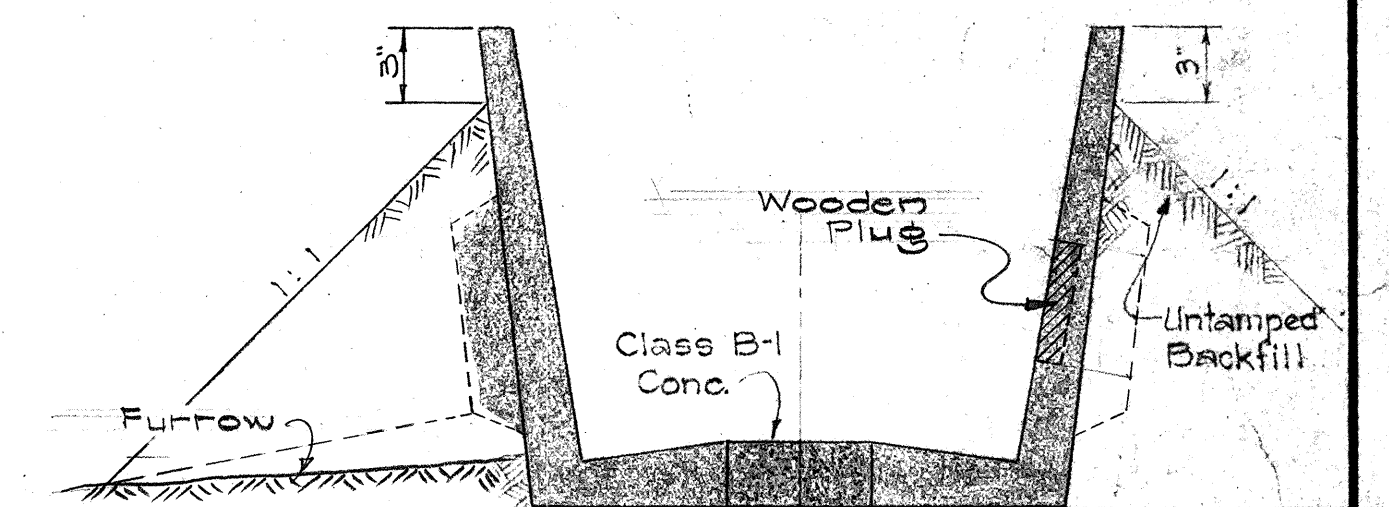


ELEVATION

TYPE "H" SECTION

NOTE:

1. For Details of Side Openings See Sht. No. 107.
2. All Flumes shall be backfilled 3" from the top except at side openings used for irrigation. Backfill to be incidental to the flume.
3. When a side opening is not used for irrigation the Contractor shall install in the opening a 1" thick wooden plug. The plug shall be sealed with joint sealer.



TYPICAL BUILT-UP FLUME SECTION

Belt, Collins & Associates Ltd.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAILS OF IRRIGATION
FLUME AND SECTIONS

FARRINGTON HIGHWAY
PROJECT NO S-09000(3)

APRIL 1965

SHEET No. 7 OF 7 SHEETS

108

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