

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI(31):21 Unit 4	1969	2	34

GENERAL NOTES.

- I SPECIFICATION : AASHO. STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (9TH EDITION) WITH SUBSEQUENT ADDITIONS & MODIFICATIONS.
- II DESIGN LOADS.
LL = 60 #/FT². WIND = 50 #/FT². SEISMIC = 4% D.L.
- III CONCRETE.
LOCATION TYPE
FOUNDATION FTGS. CLASS : E-1
PIERS & BRIDGE DECK. CLASS : 6,000 PSI.
- IV REINFORCING STEEL.
A' ALL REINFORCING STEEL SHALL BE INTERMEDIATE GRADE AND SHALL CONFORM TO ASTM - A15 - 54 T WITH DEFORMATIONS CONFORMING TO ASTM A-305
B' SPLICES SHALL BE WIRED TOGETHER AND SHALL LAP OR EXTEND A MINIMUM OF 40 BAR DIAMETER UNLESS SHOWN OTHERWISE. SPLICE LOCATIONS SHALL BE STAGGERED.
C. CONCRETE PROTECTION: CLEAR COVER
SLAB 1"
FOUNDATIONS 3"
BEAM STIRRUPS & PIER TIES 1 1/2"
- V STRUCTURAL & MISCELLANEOUS STEEL.
ALL STRUCTURAL & MISCELLANEOUS STEEL SHALL CONFORM TO ASTM-A36.
- VI WELDING :
A' ALL WELDING SHALL DEVELOP THE FULL STRENGTH OF ALL CONNECTED MEMBERS UNLESS SHOWN OTHERWISE.
B' ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS.
C' ALL METHODS & WORKMANSHIP SHALL CONFORM TO THE LATEST PRACTICES OF THE AWS & THE AISC.
- VII SHOP DRAWINGS
SHOP DRAWINGS SHOWING POST TENSIONING METHOD, OPERATIONS & PROCEDURE, LOCATIONS OF ALL TENDONS & CALCULATIONS OF ALL STRESS LOSSES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE STARTING FABRICATION.
- VIII ALL DIMENSIONS SHALL BE VERIFIED AT THE SITE BY THE CONTRACTOR BEFORE COMMENCING WORK.
- IX VENT HOLES NOT LESS THAN 1/2" IN SIZE SHALL BE PROVIDED IN THE POST TENSION DUCTS AS DEEMED NECESSARY BY THE ENGINEER.
- X THE CONTRACTOR SHALL INSTALL, PROVIDE, AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES AND OTHER PROTECTIVE FACILITIES AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF THE WORK AND THE CONVENIENCE AND SAFETY OF PUBLIC TRAFFIC. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS ITEMS OF WORK INVOLVED.

NOTE: FOR "LOG OF BORINGS", SEE SHT. 5

PLAN - PEDESTRIAN OVERCROSSING

SCALE: 1" = 10'

LONGITUDINAL ELEVATION - SECTION A

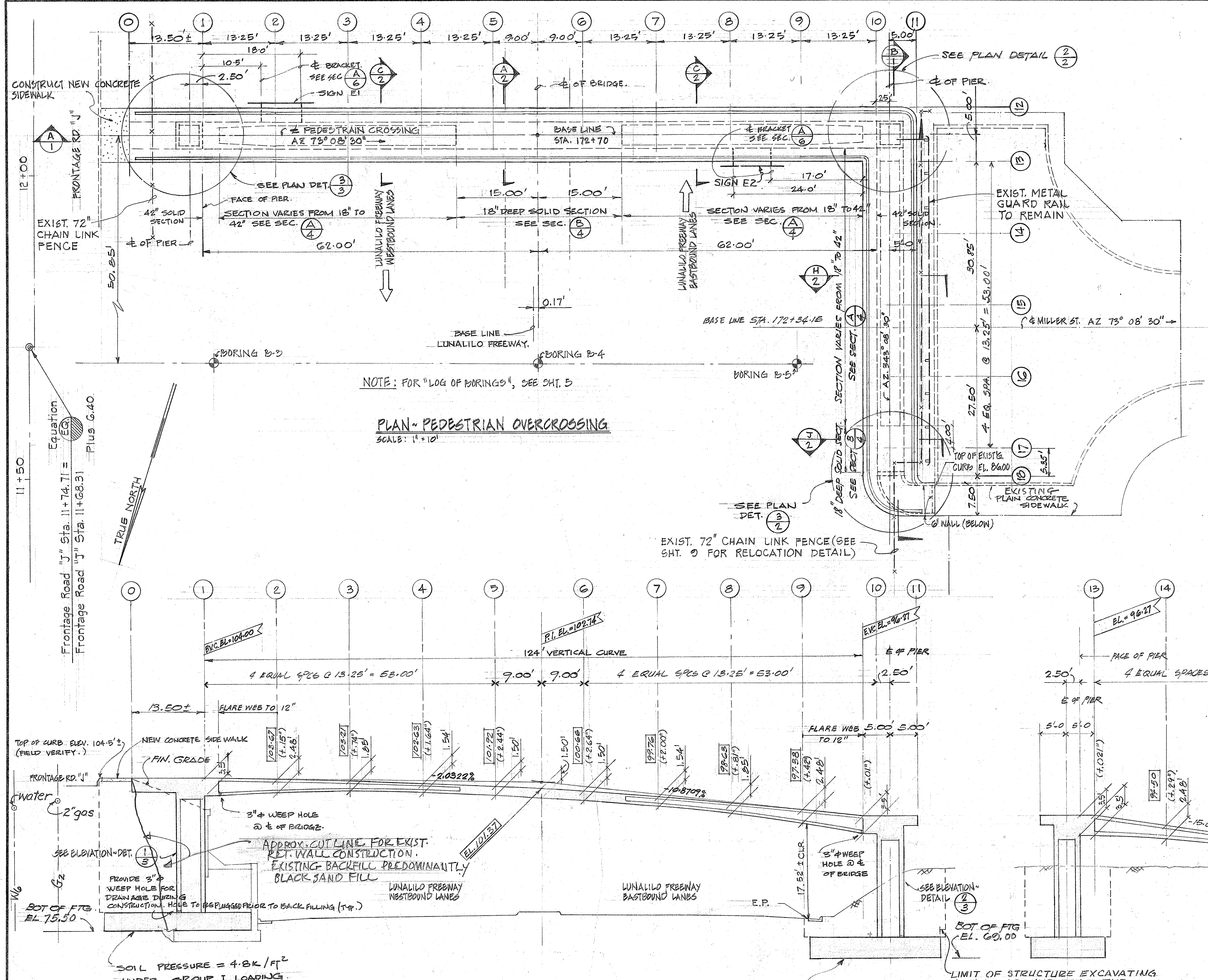
SCALE: 1" = 10'

ELEVATION - SECTION B

SCALE: 1" = 10'

- NOTES:
- 1 ELEVATION OF TOP OF DECK REFERENCE TO W.P. INDICATED BY
 - 2 STATIONS INDICATED BY
 - 3 CAMBER, (ABOVE FINISH ELEVATION), INDICATED BY (+) IN INCHES
 - 4 ALL FOOTINGS TO BE EXCAVATED AND POURED NEAT.

DATE	.....
SURVEY PLOTTED BY	.....
DESIGNED BY	.....
TRACED BY	.....
NOTE BOOK	.....
CHECKED BY	.....



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MILLER ST. PEDESTRIAN OVERCROSSING

PEDESTRIAN OVERPASSES OVER INTERSTATE H - I
AT MILLER STREET & ALAPAI STREET

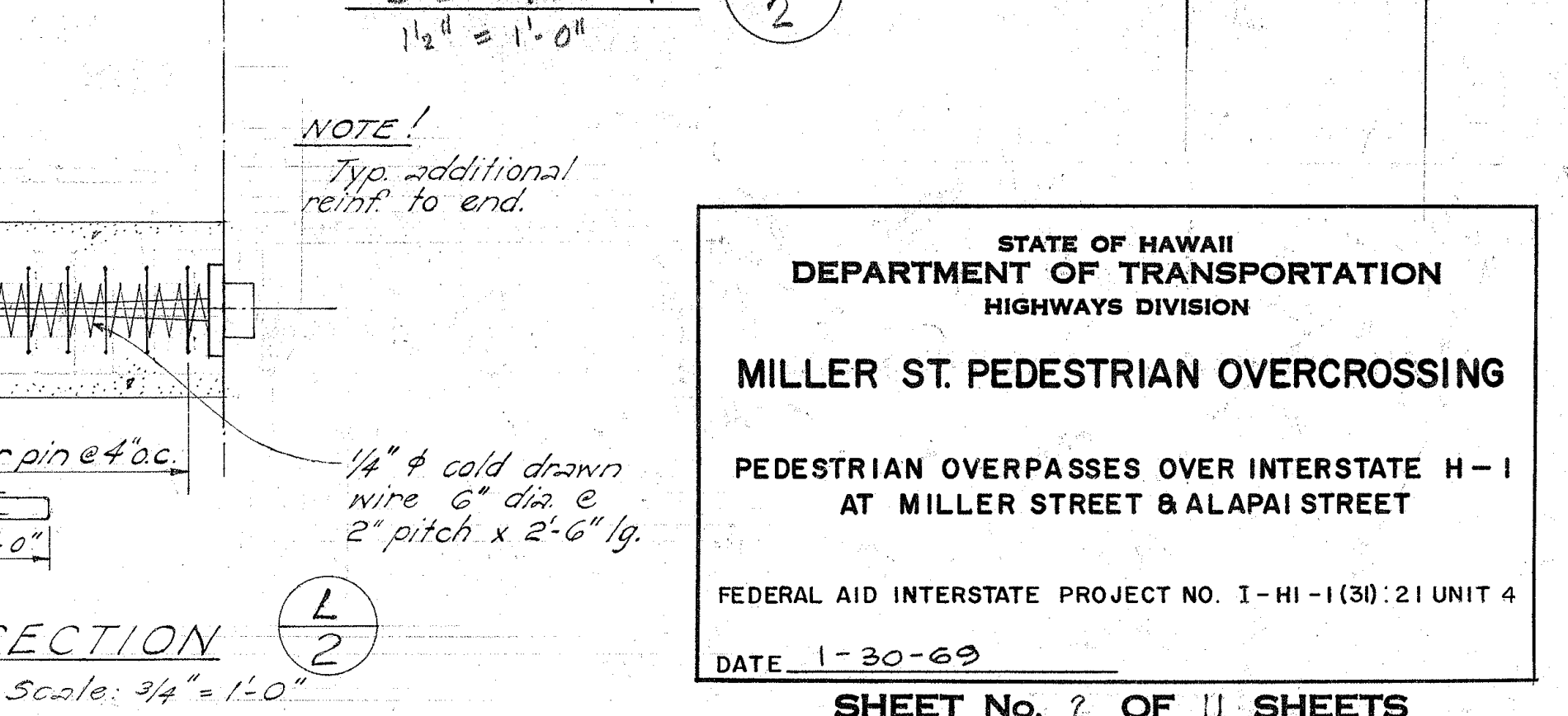
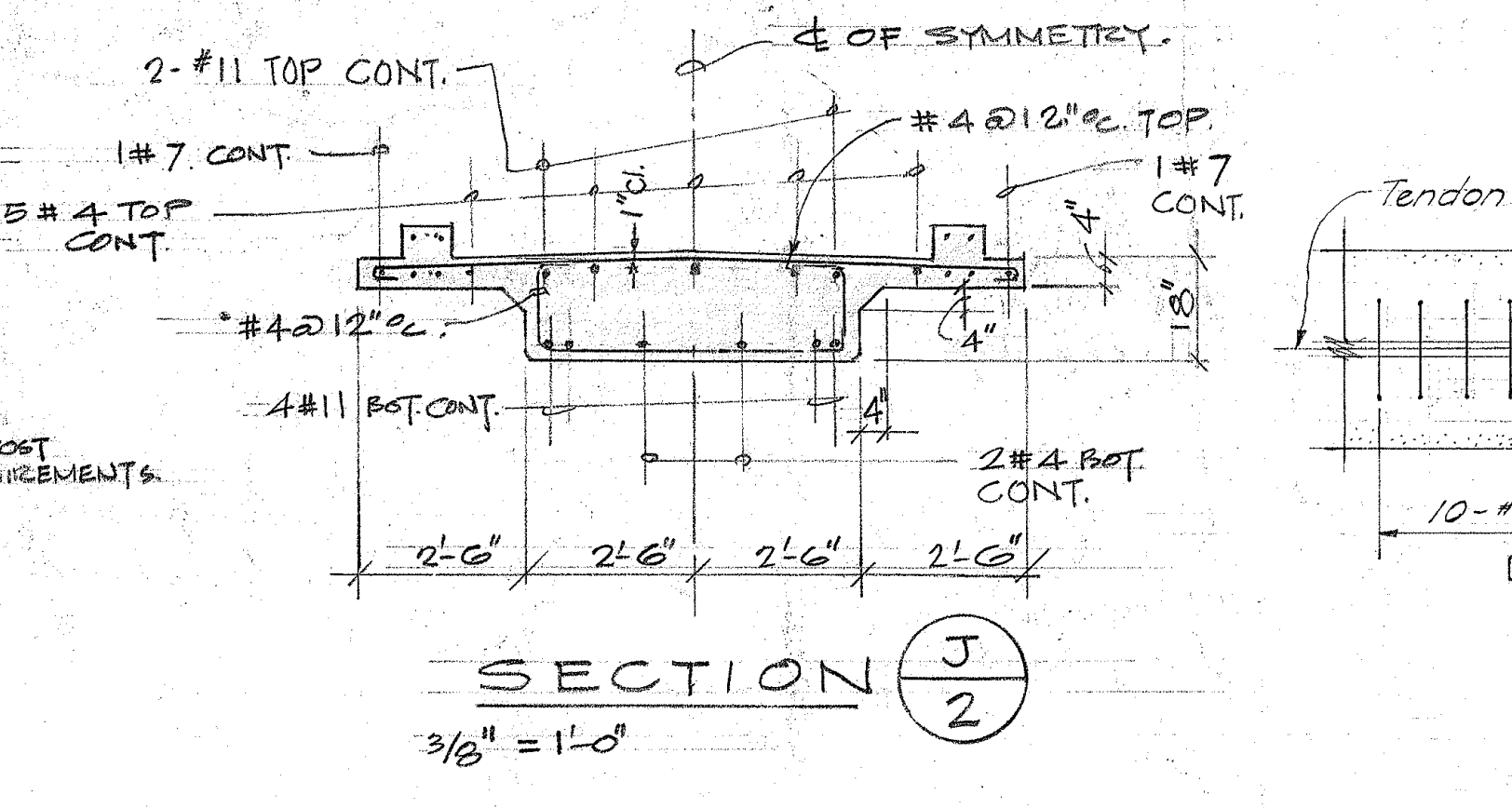
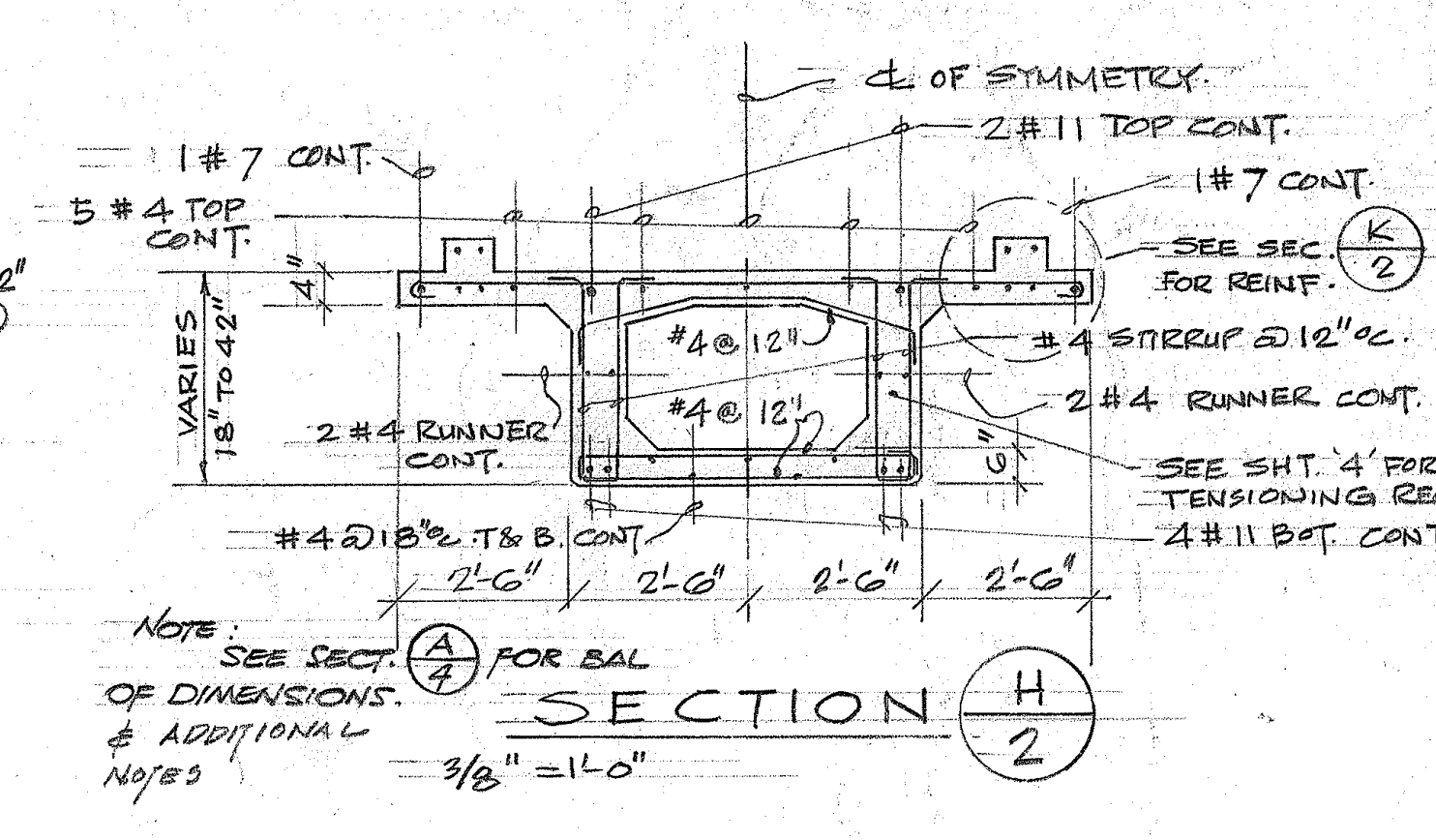
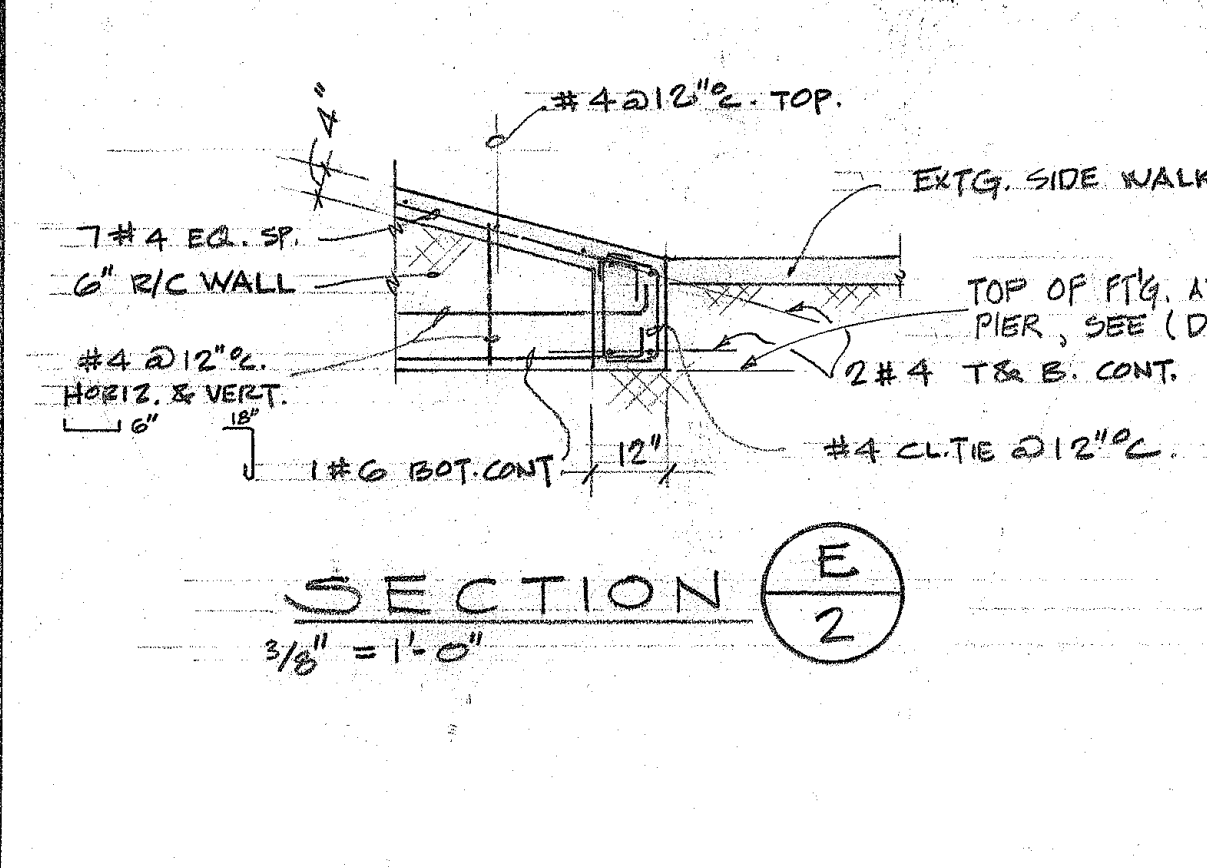
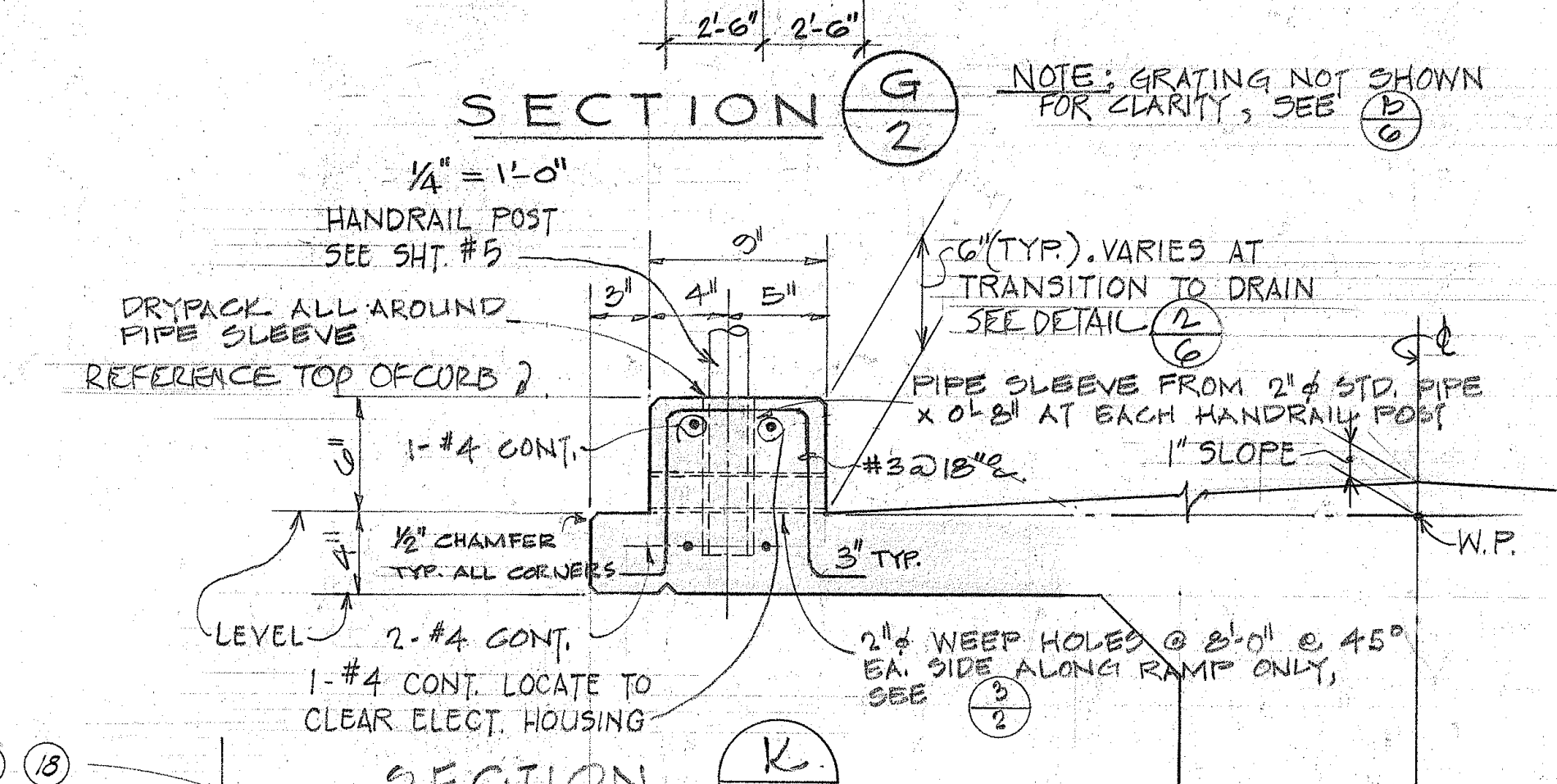
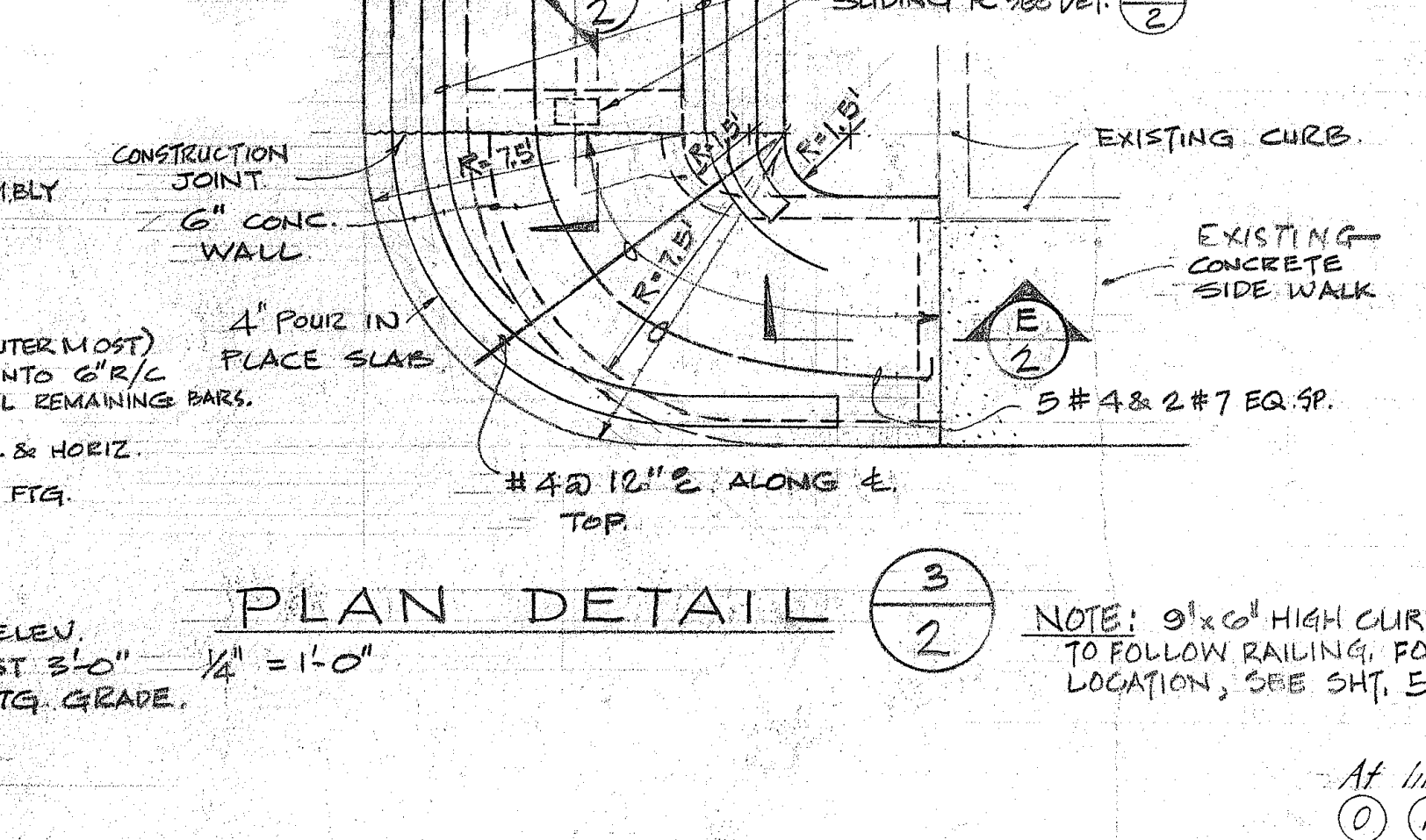
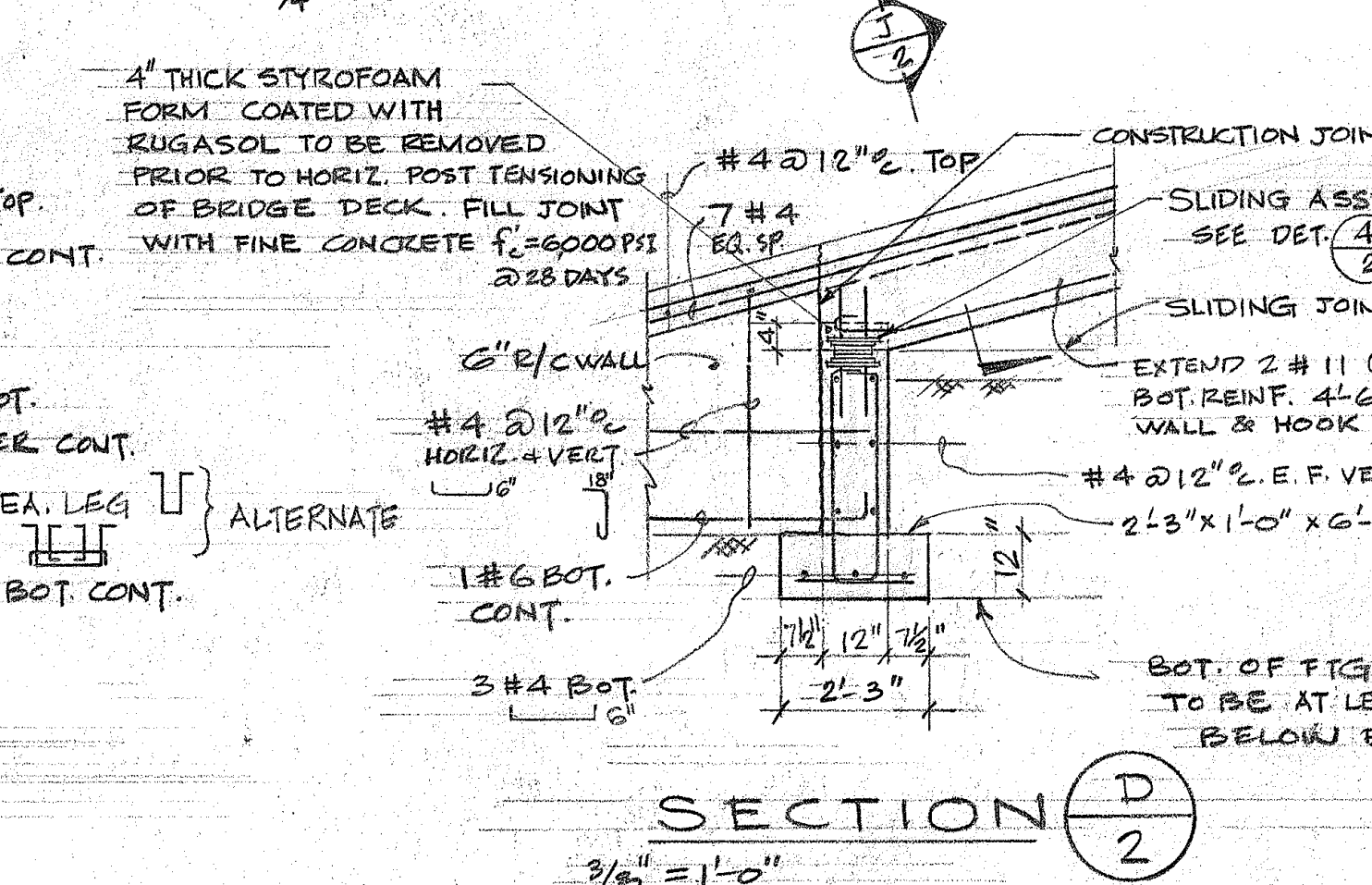
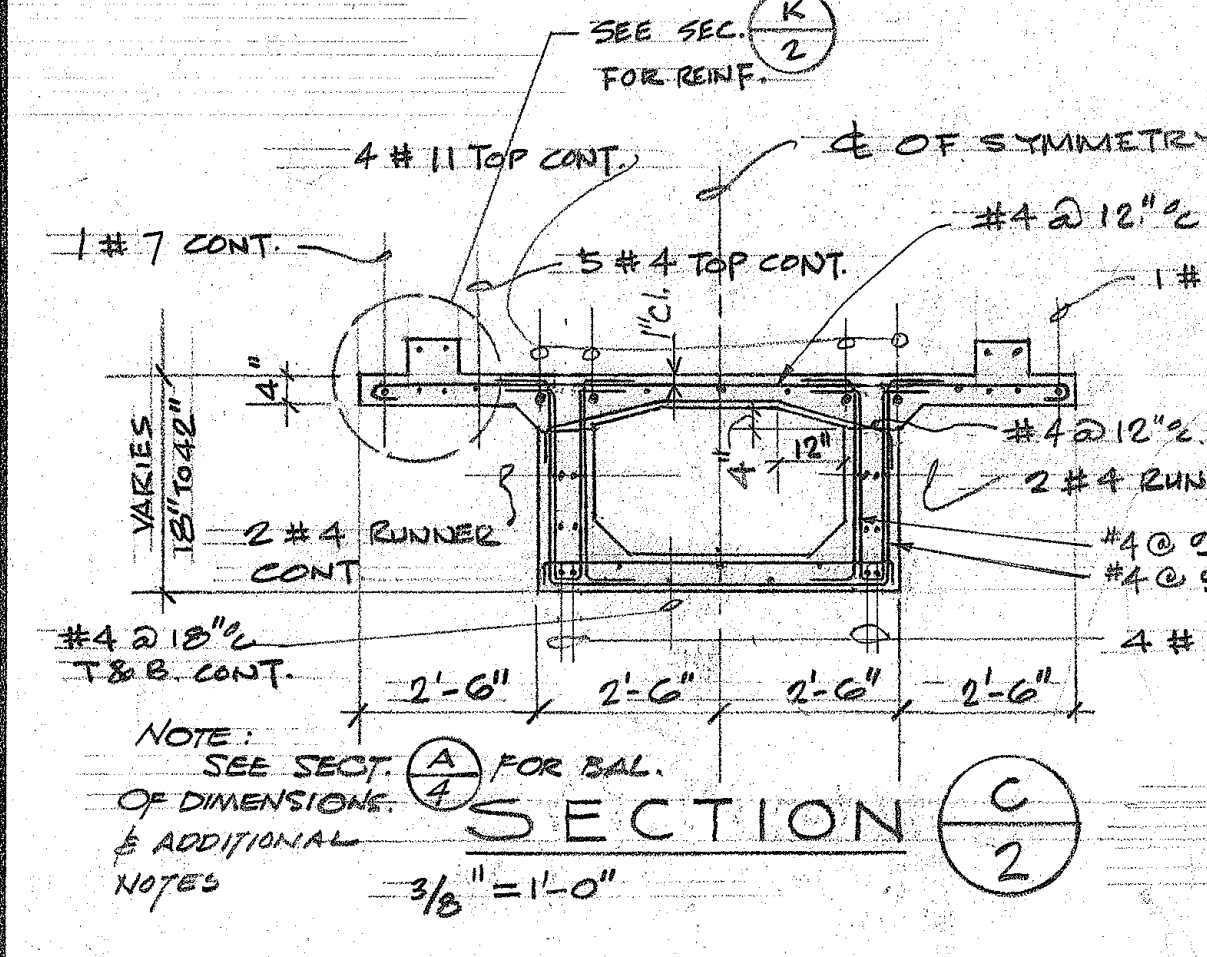
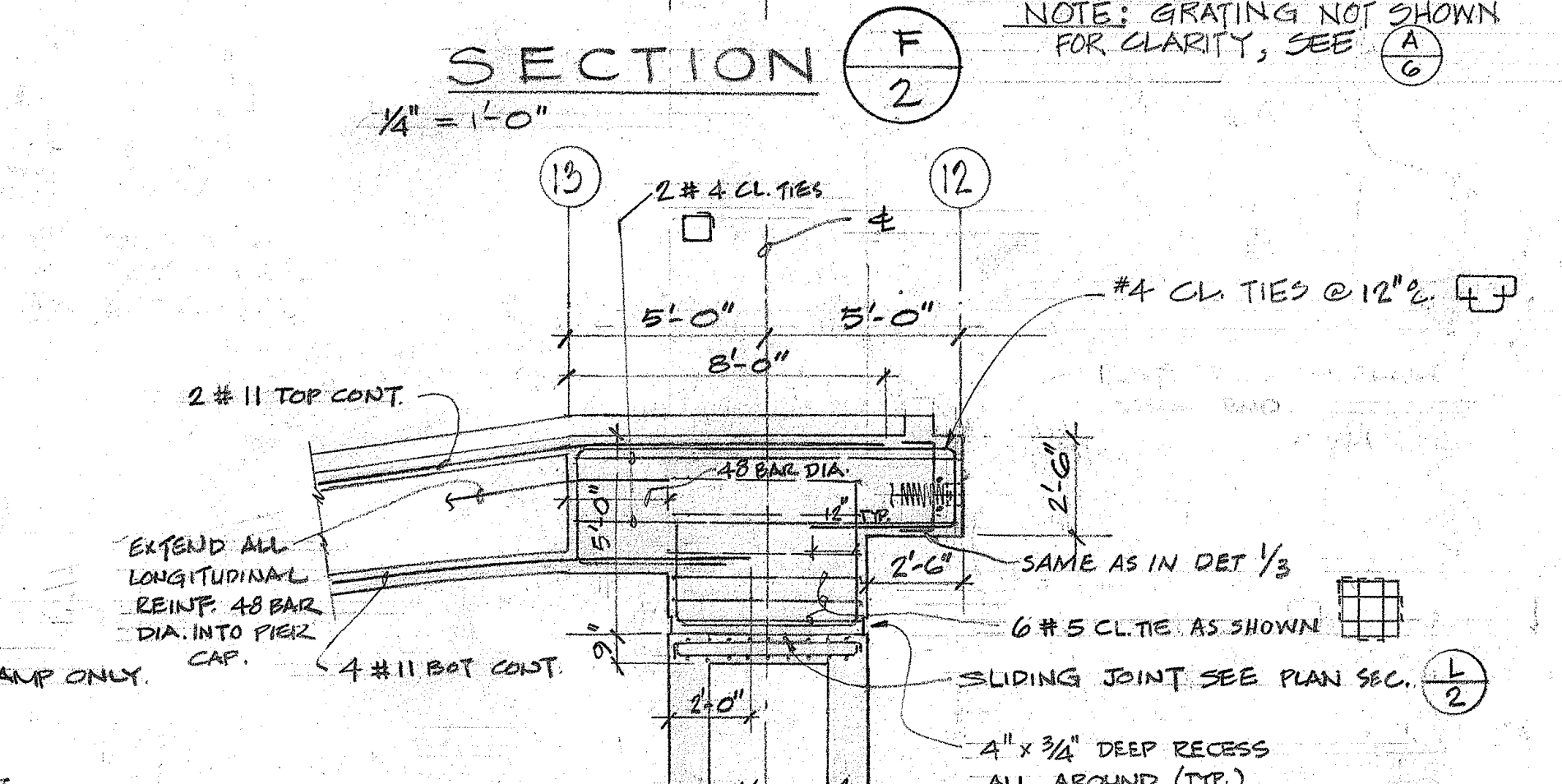
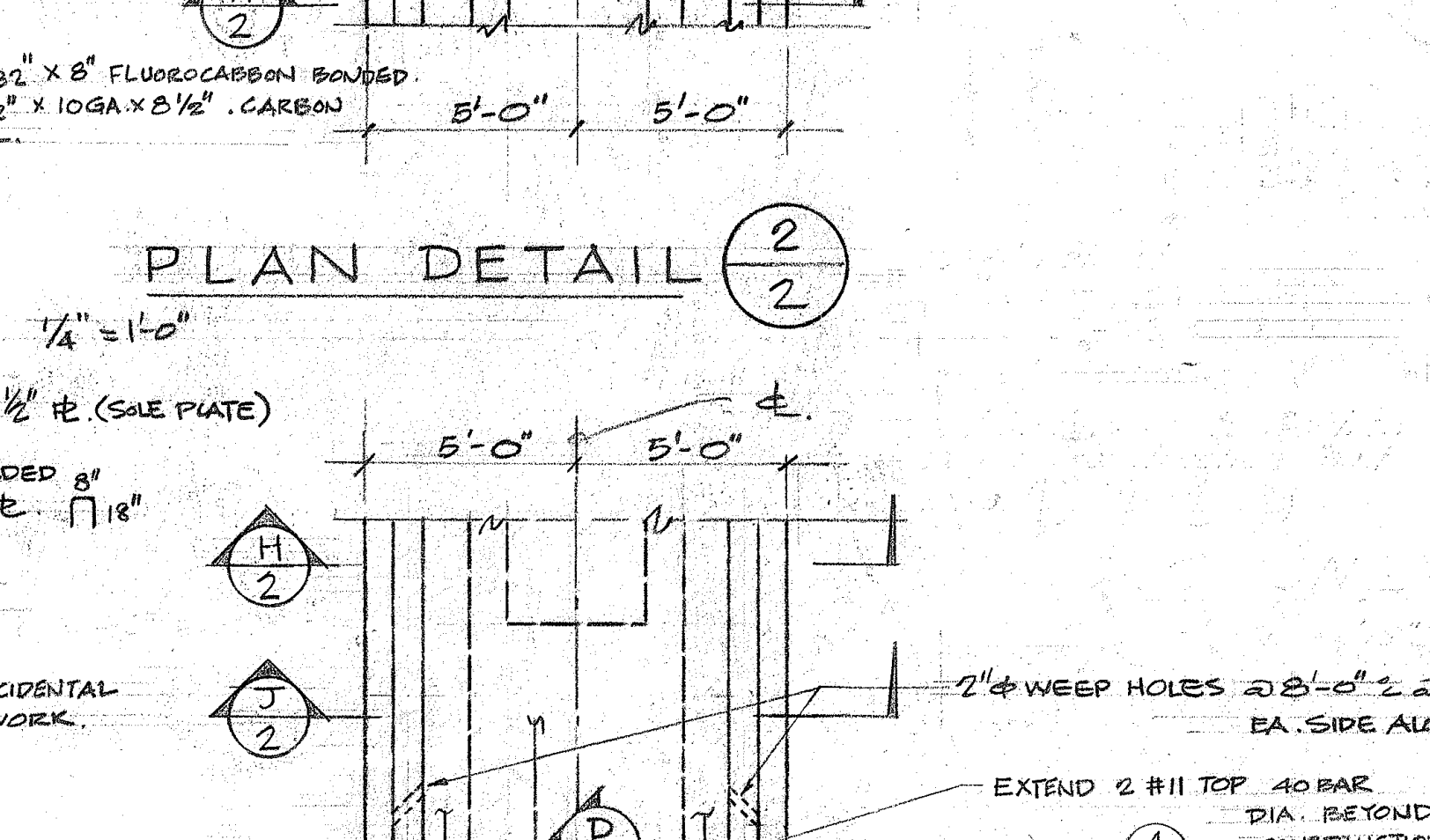
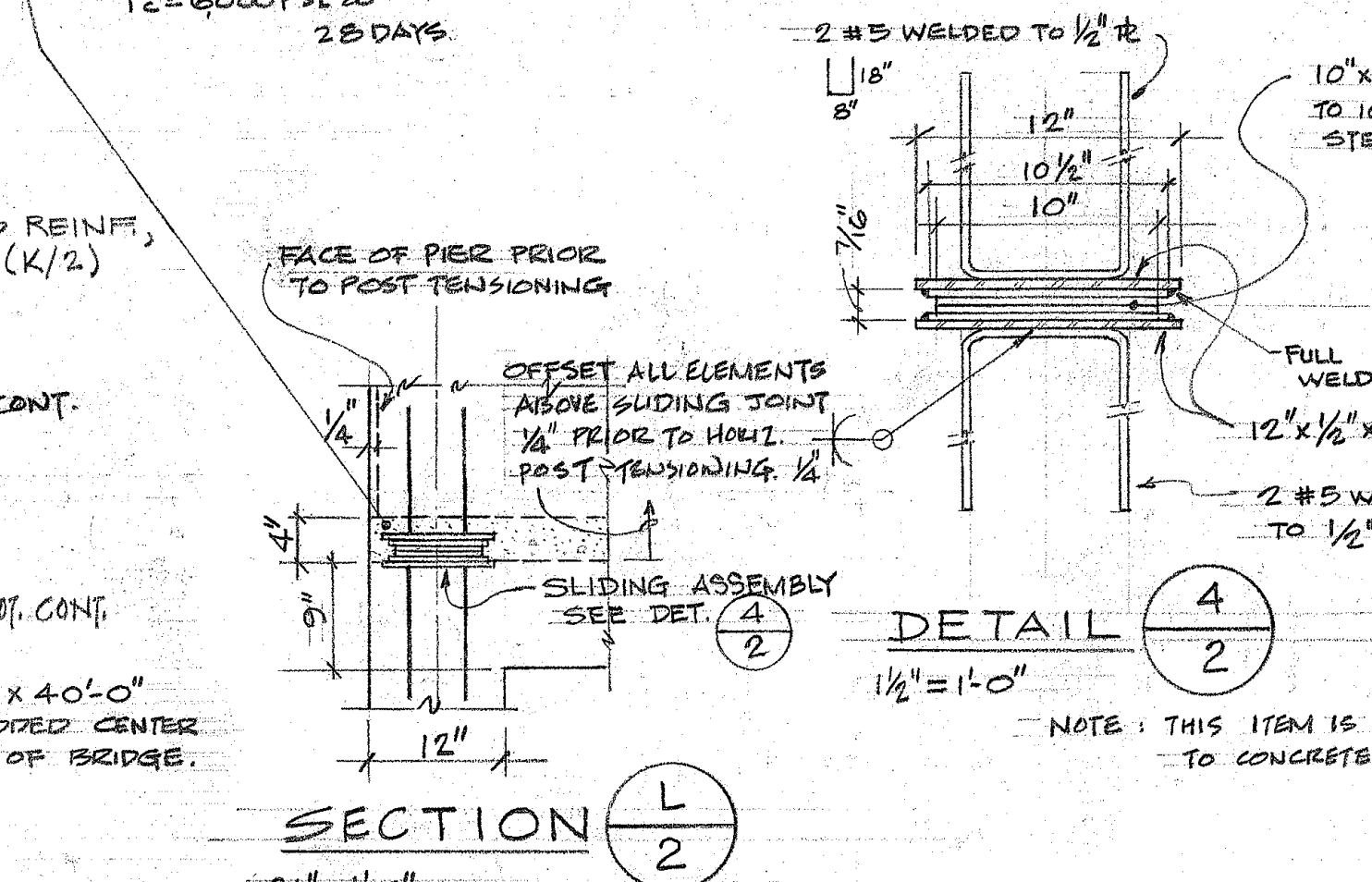
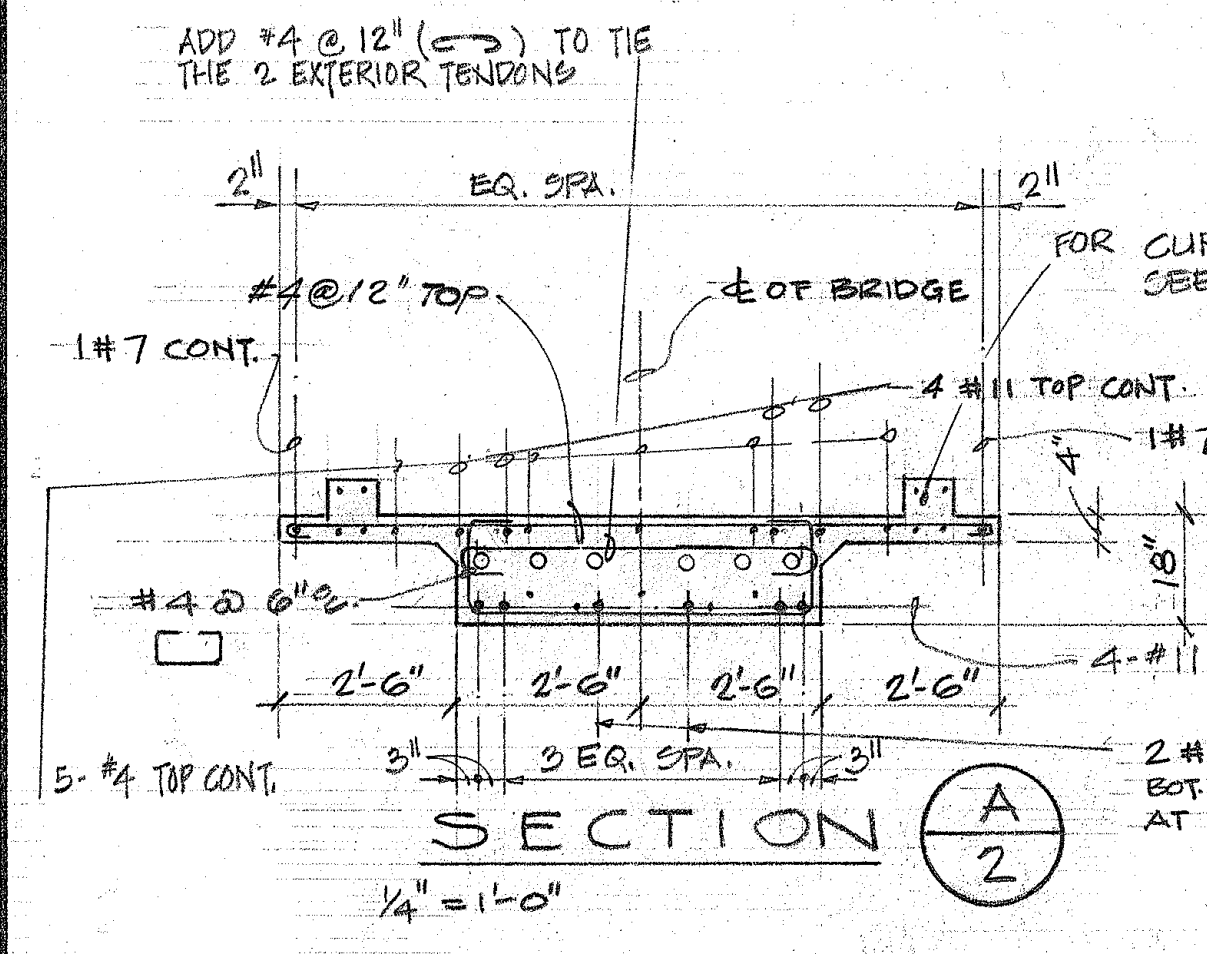
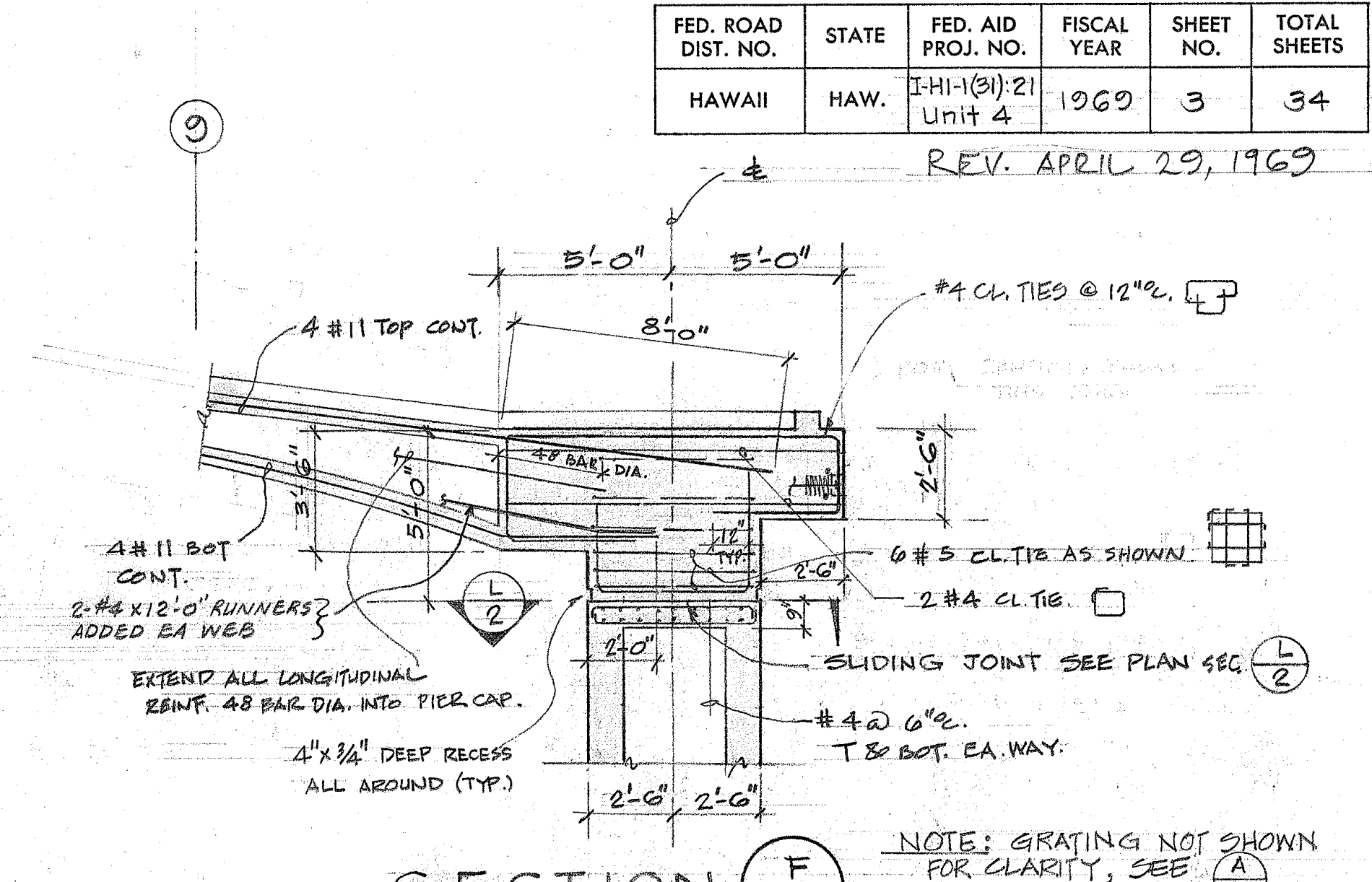
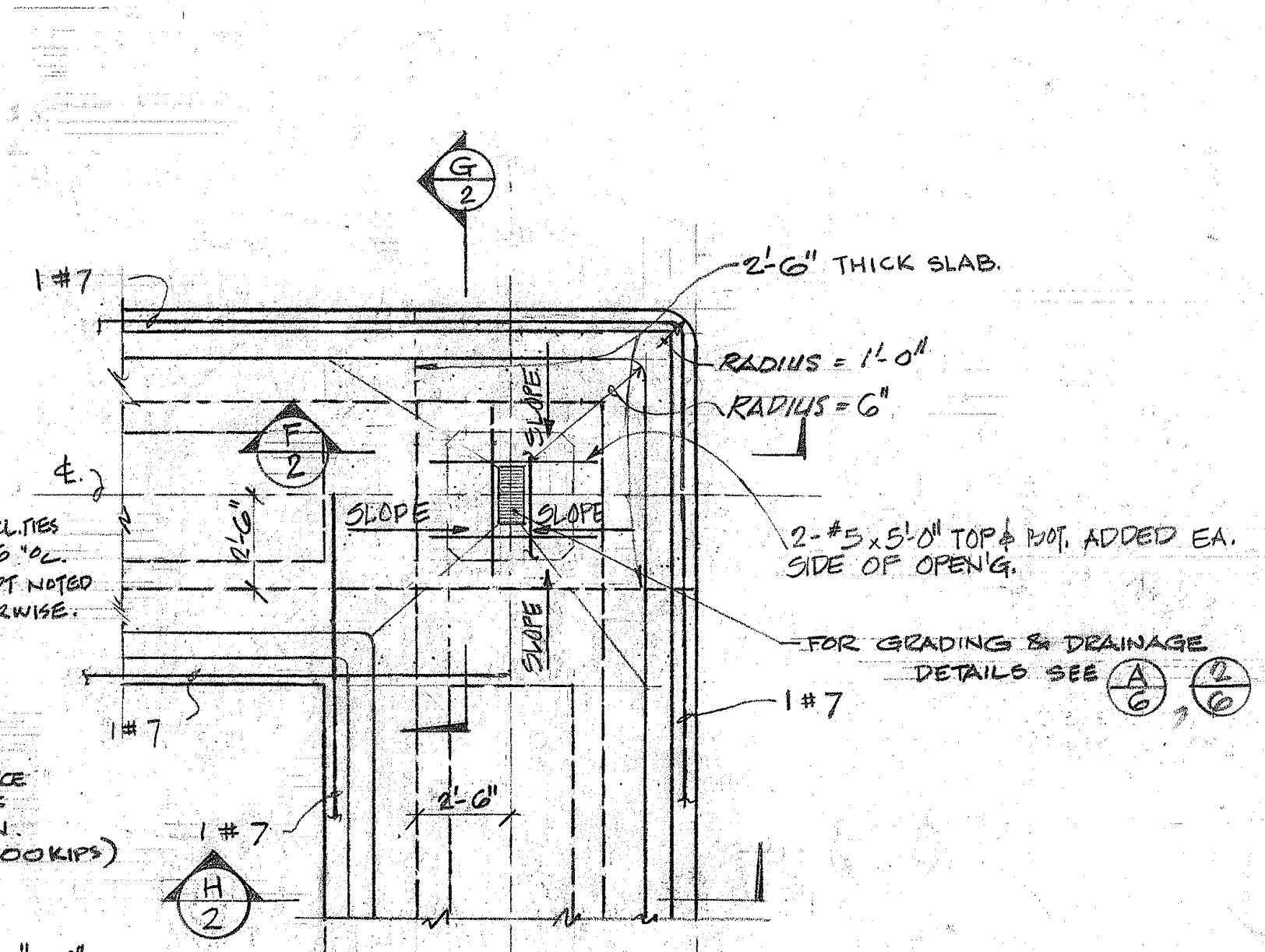
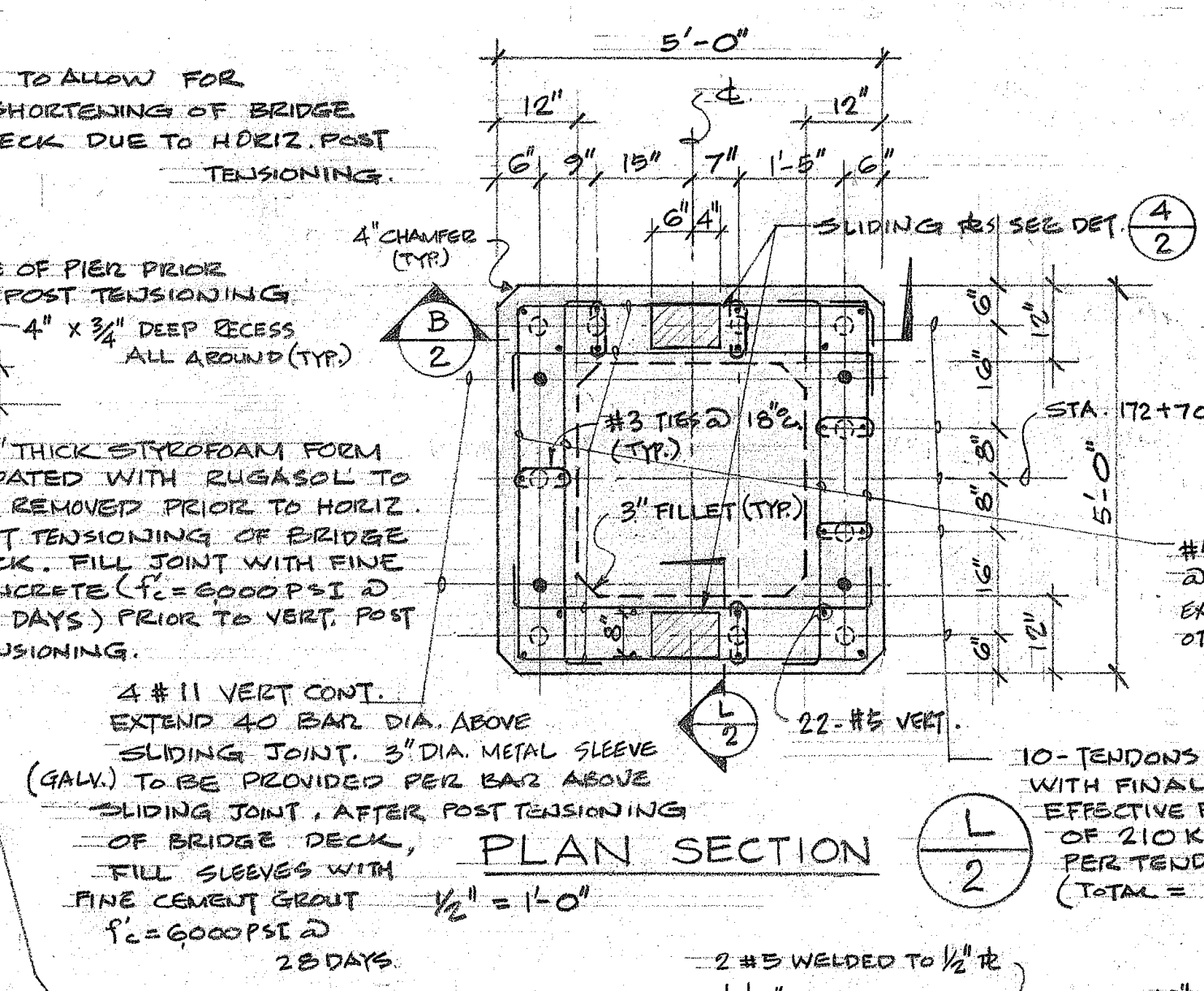
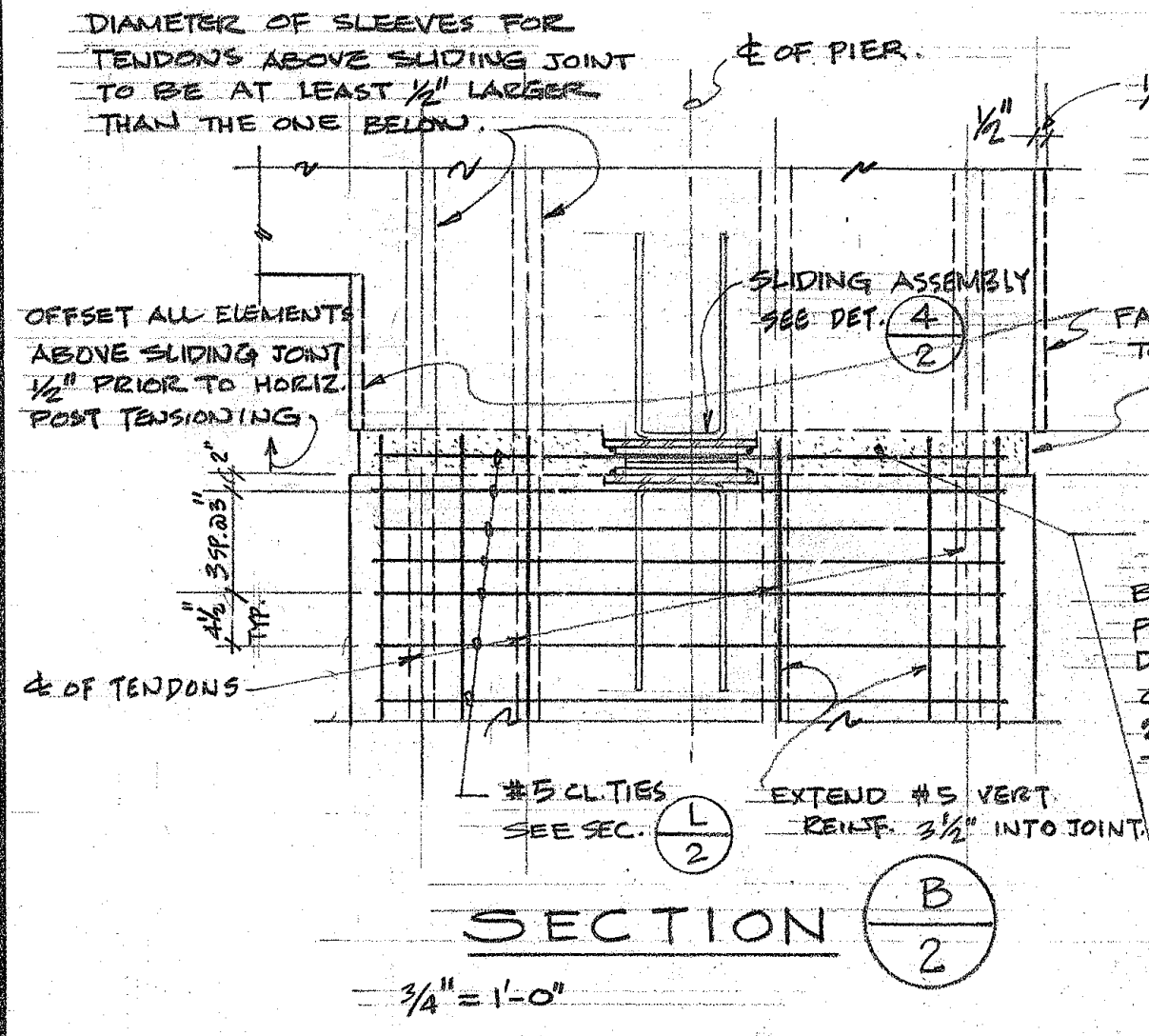
FEDERAL AID INTERSTATE PROJECT NO. I-HI-(31):21 UNIT 4

DATE: 1-30-69

SHEET No. 1 OF 11 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(31)21 UNIT 4	1969	3	34

REV. APRIL 29, 1969



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MILLER ST. PEDESTRIAN OVERCROSSING

PEDESTRIAN OVERPASSES OVER INTERSTATE H-1
AT MILLER STREET & ALAPAI STREET

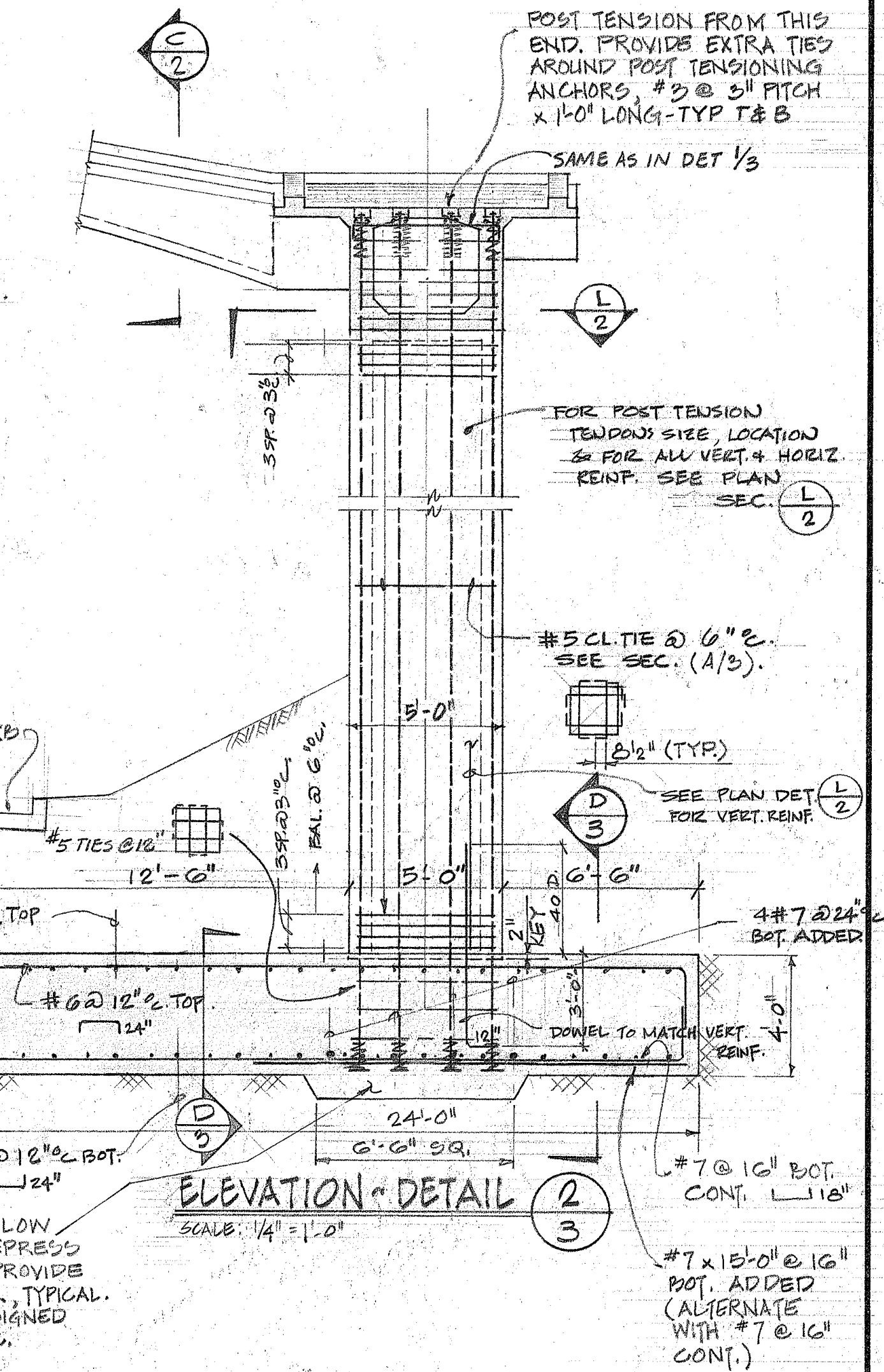
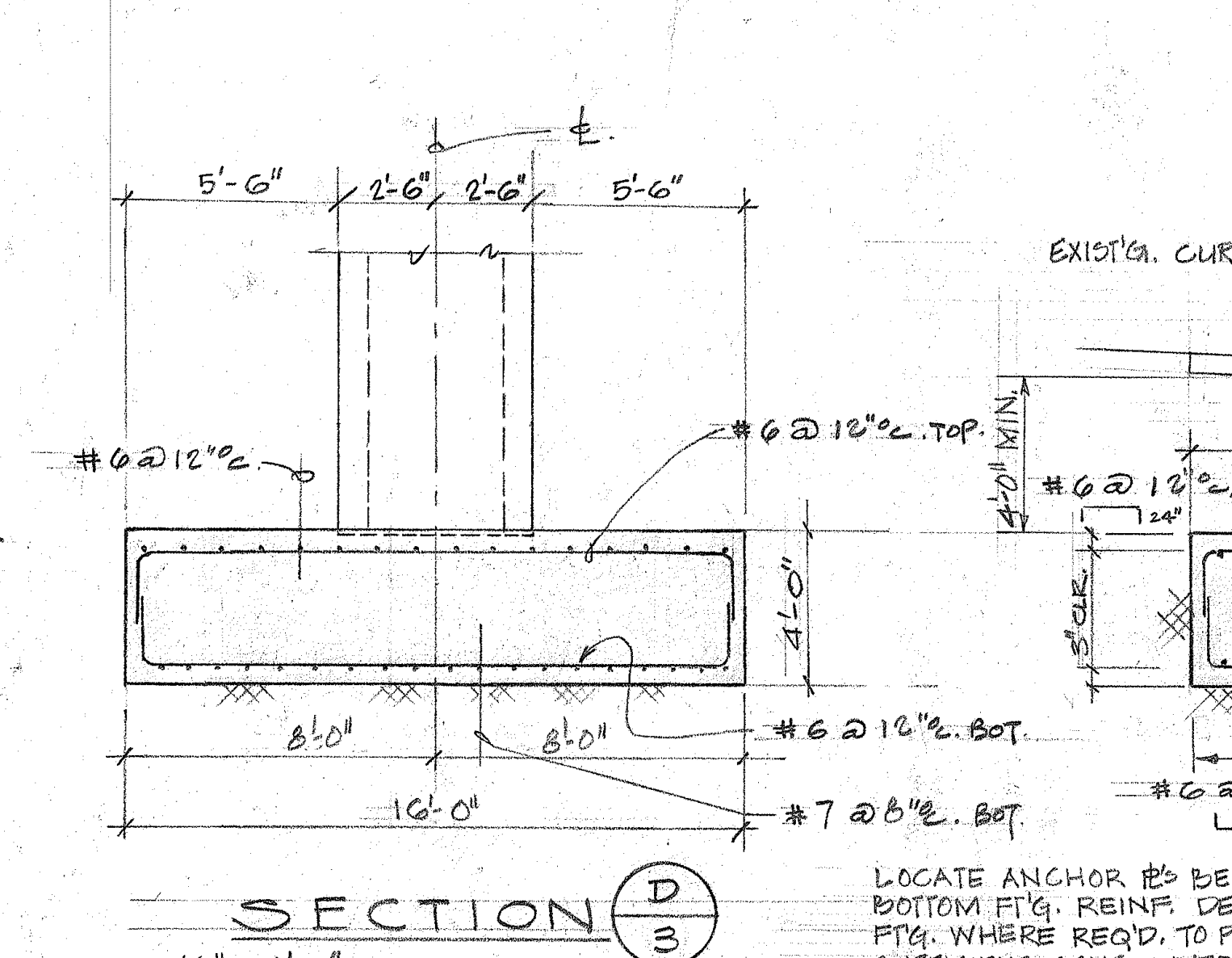
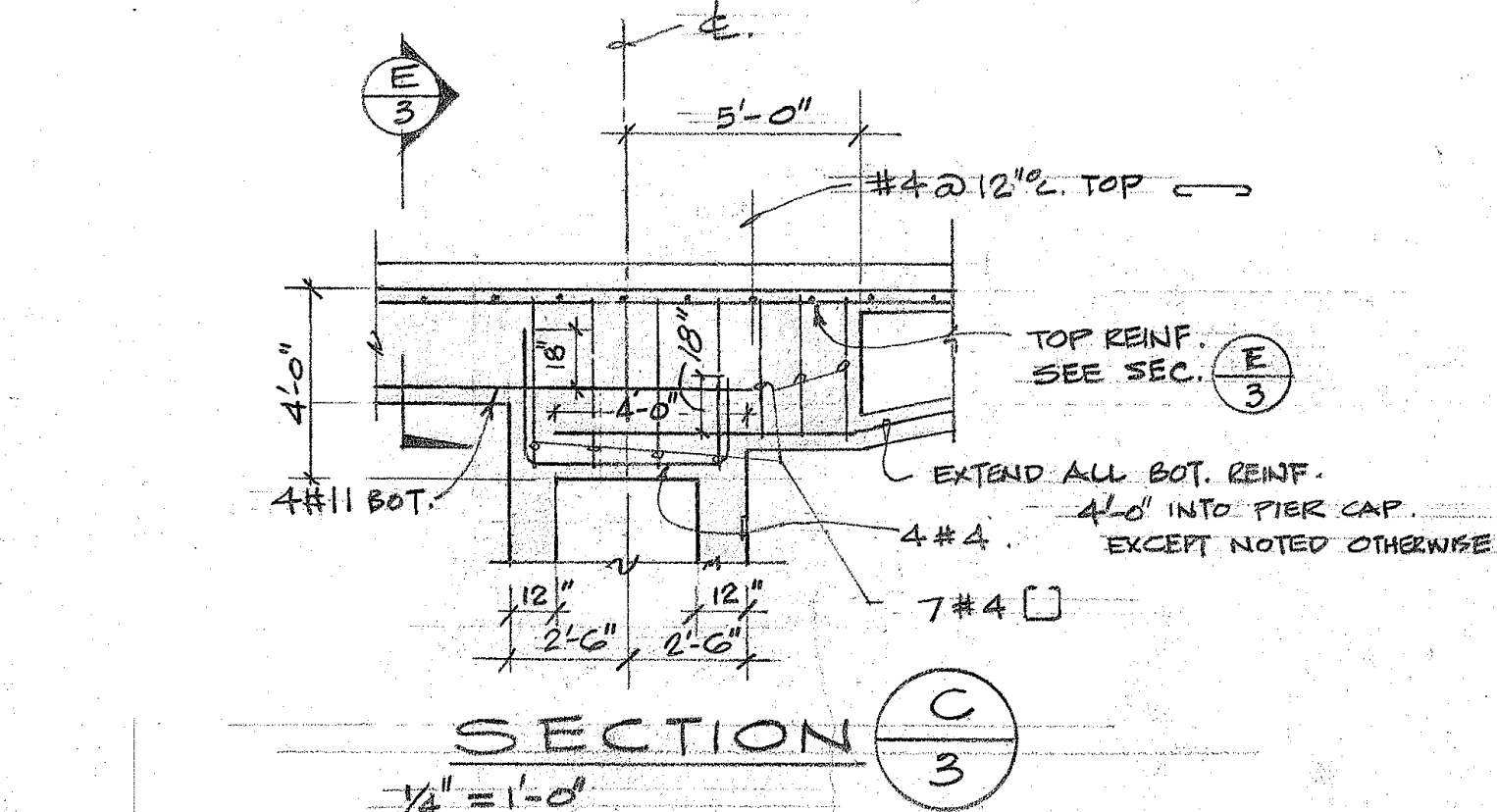
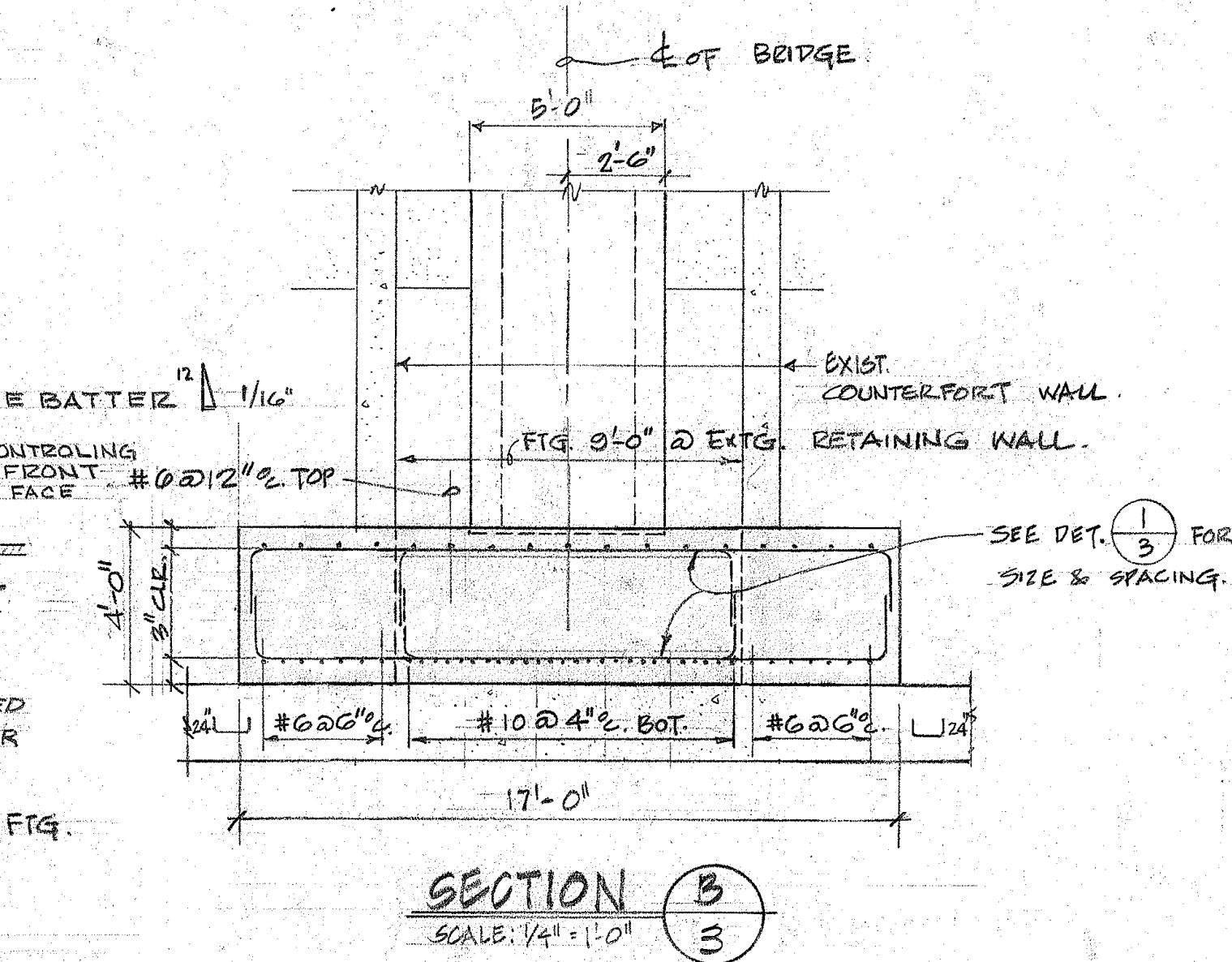
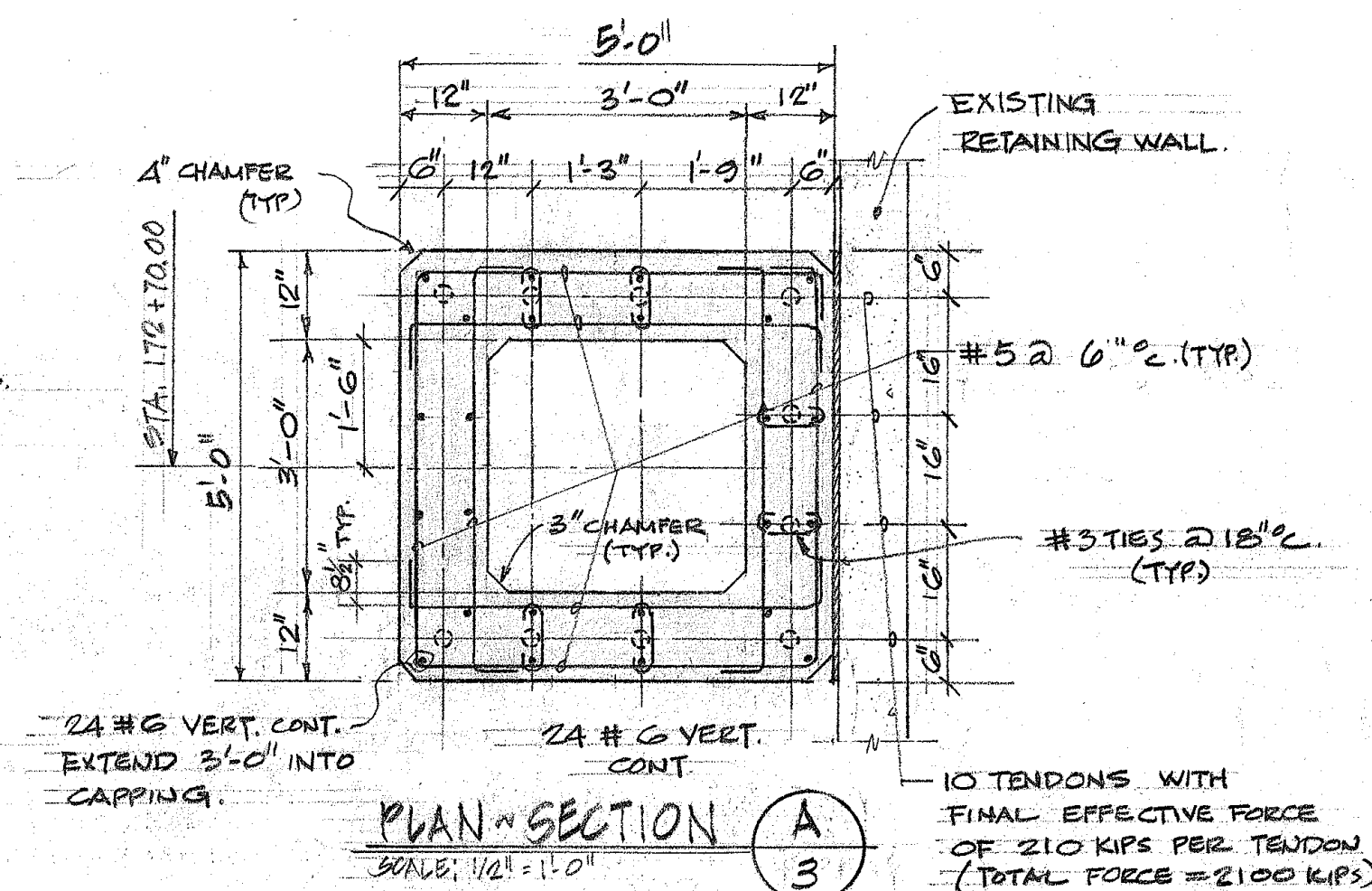
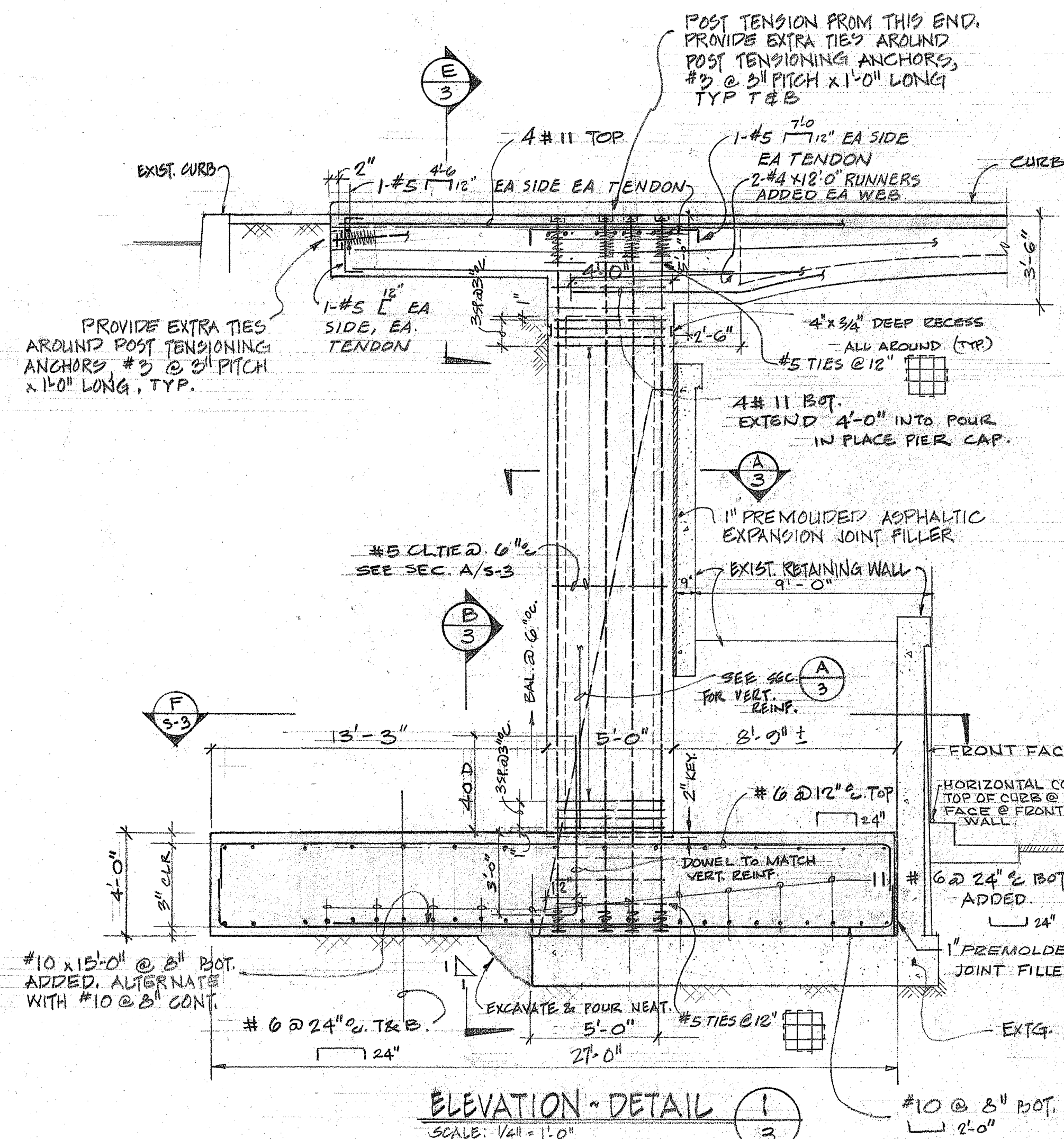
FEDERAL AID INTERSTATE PROJECT NO. I-HI-1(31)21 UNIT 4

DATE 1-30-69

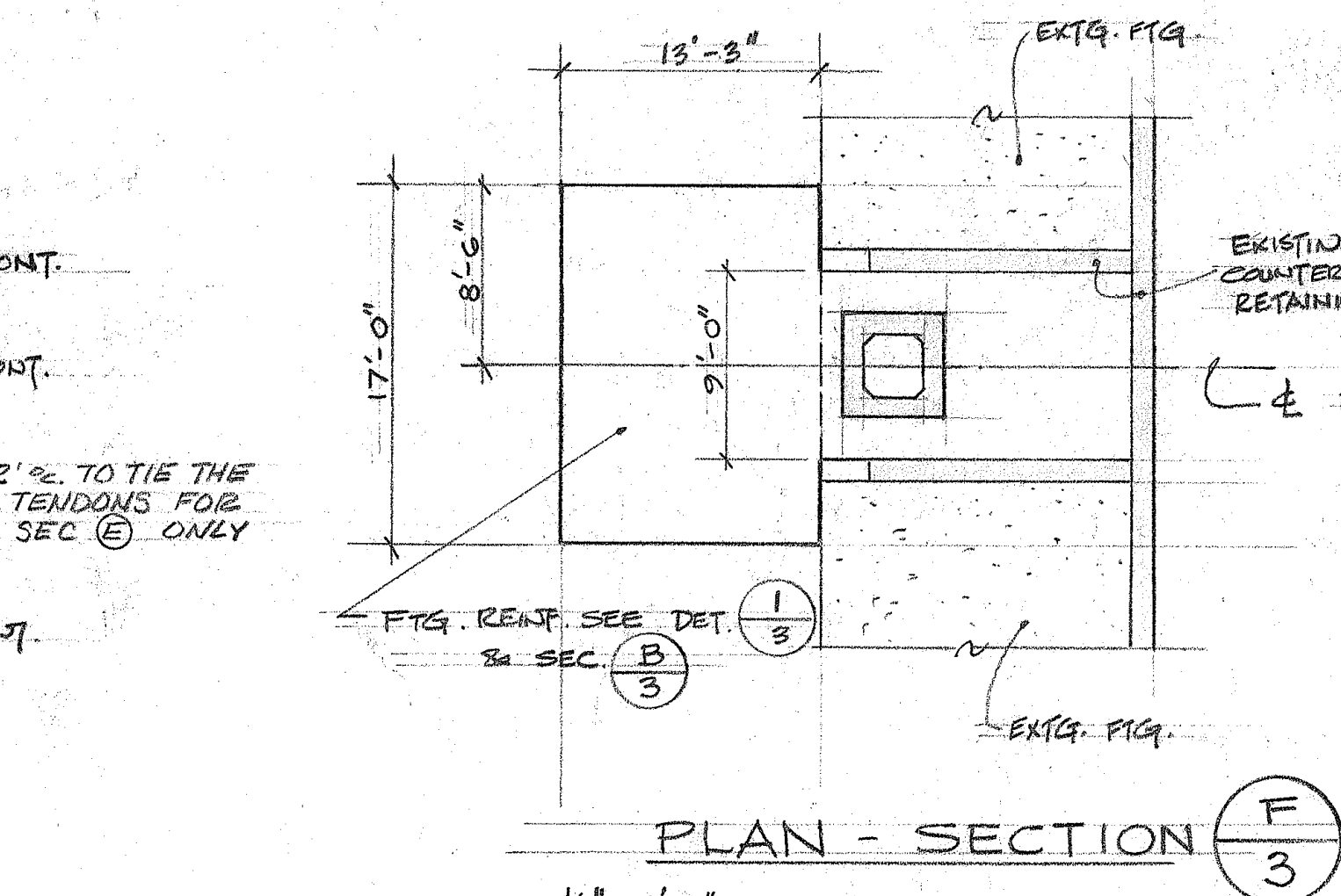
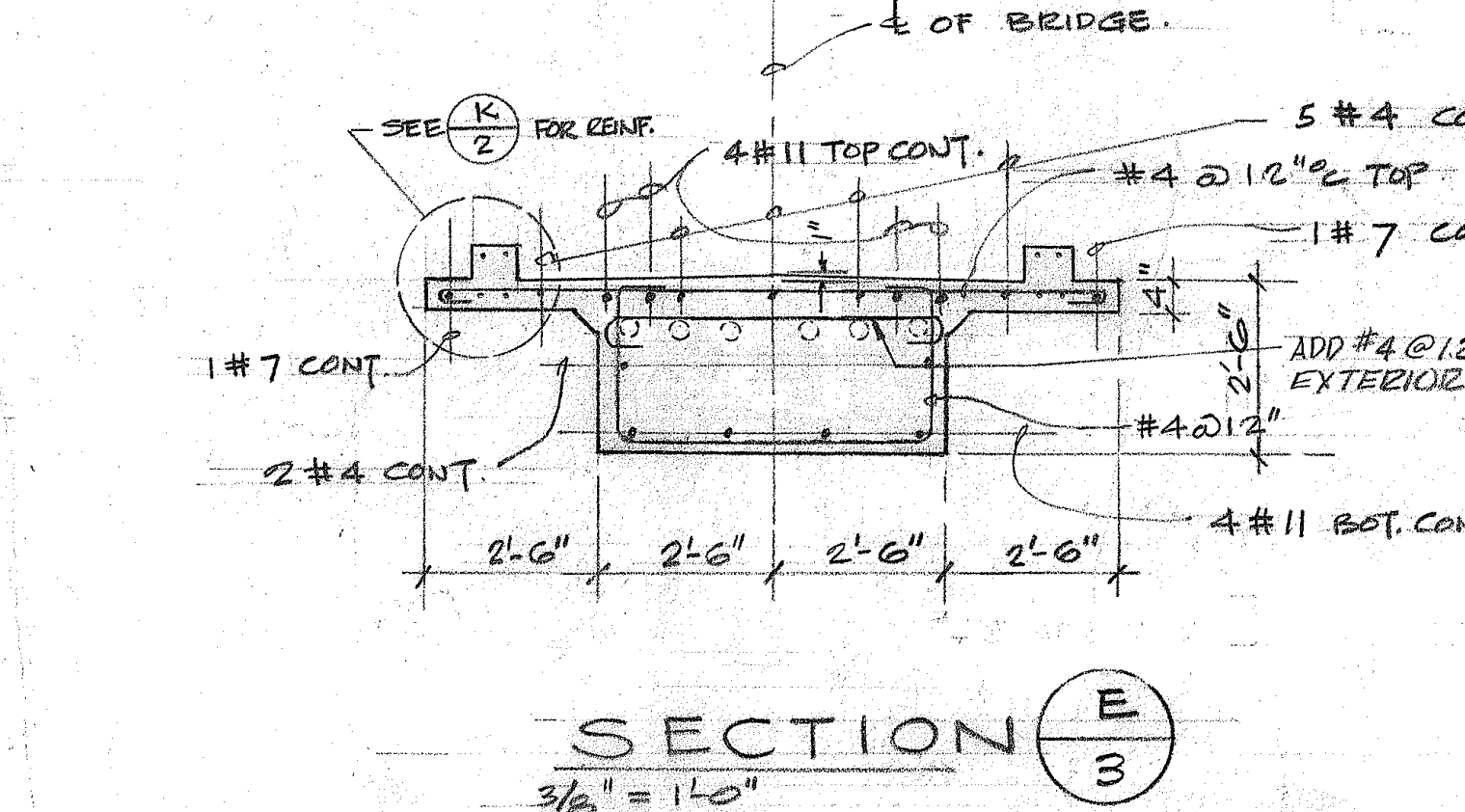
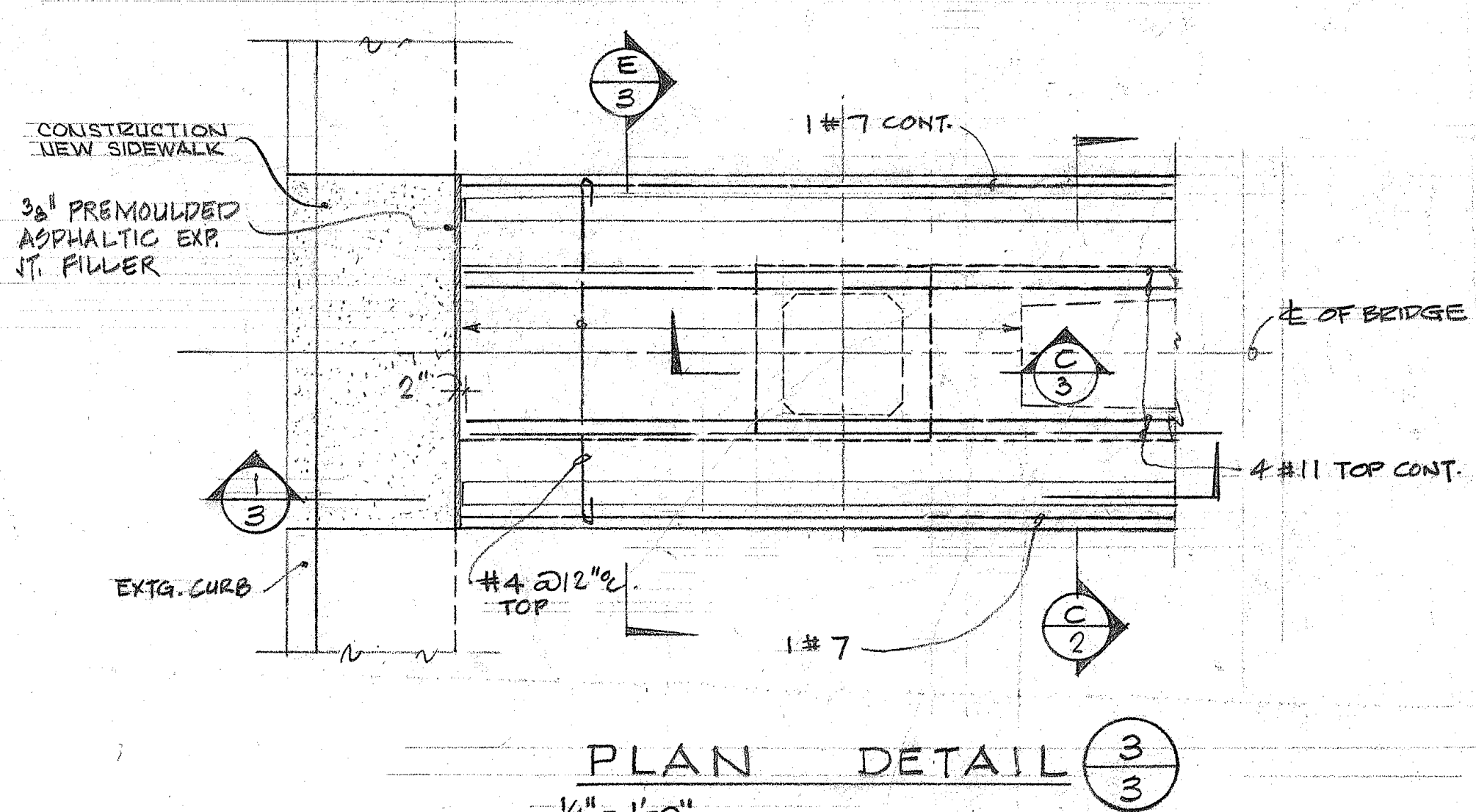
SHEET No. 2 OF 11 SHEETS

DATE	.....
DESIGNED BY	.....
TRACED BY	.....
NOTE BOOK	.....
QUANTITIES BY	.....
CHECKED BY	.....

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(31)21 Unit 4	1969	4	34

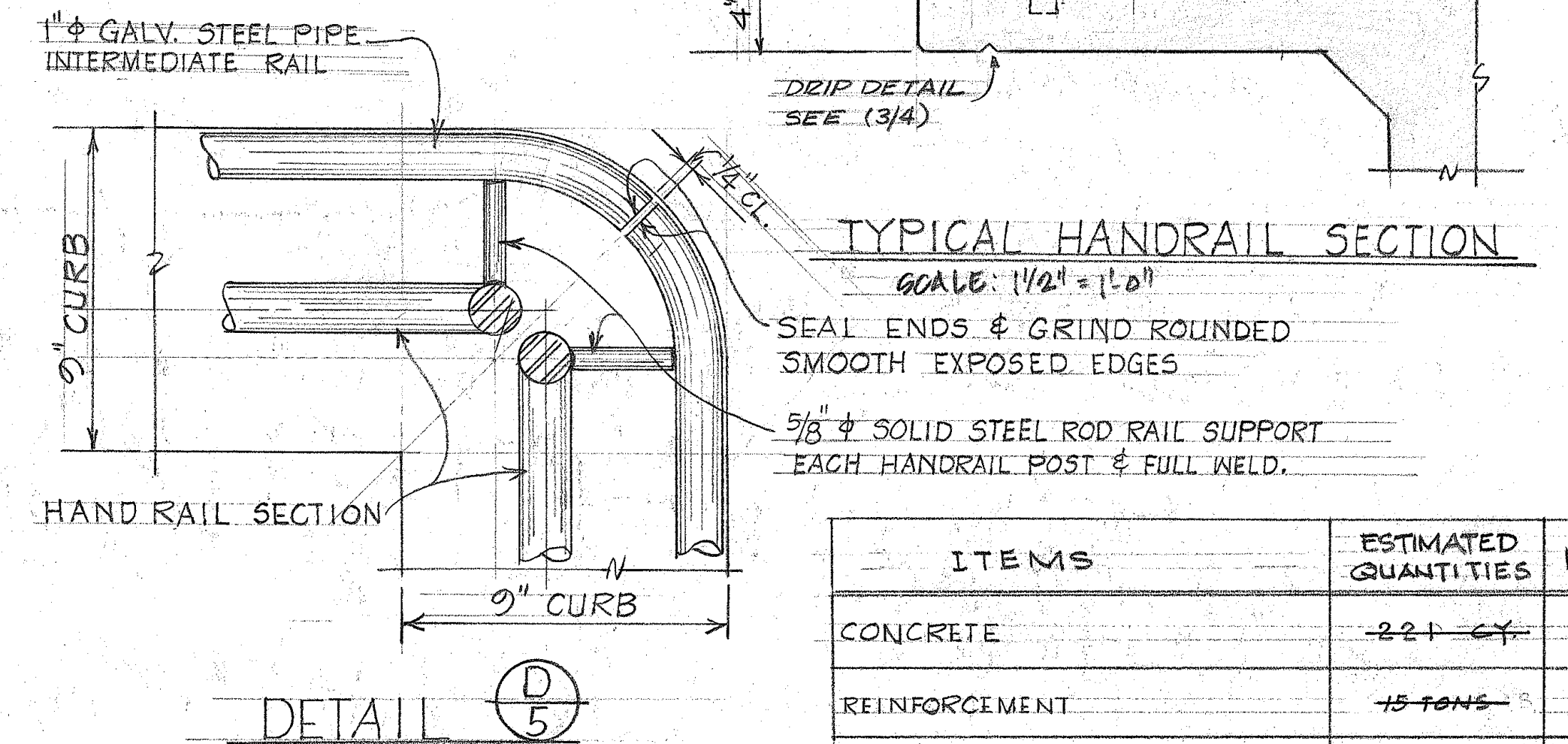
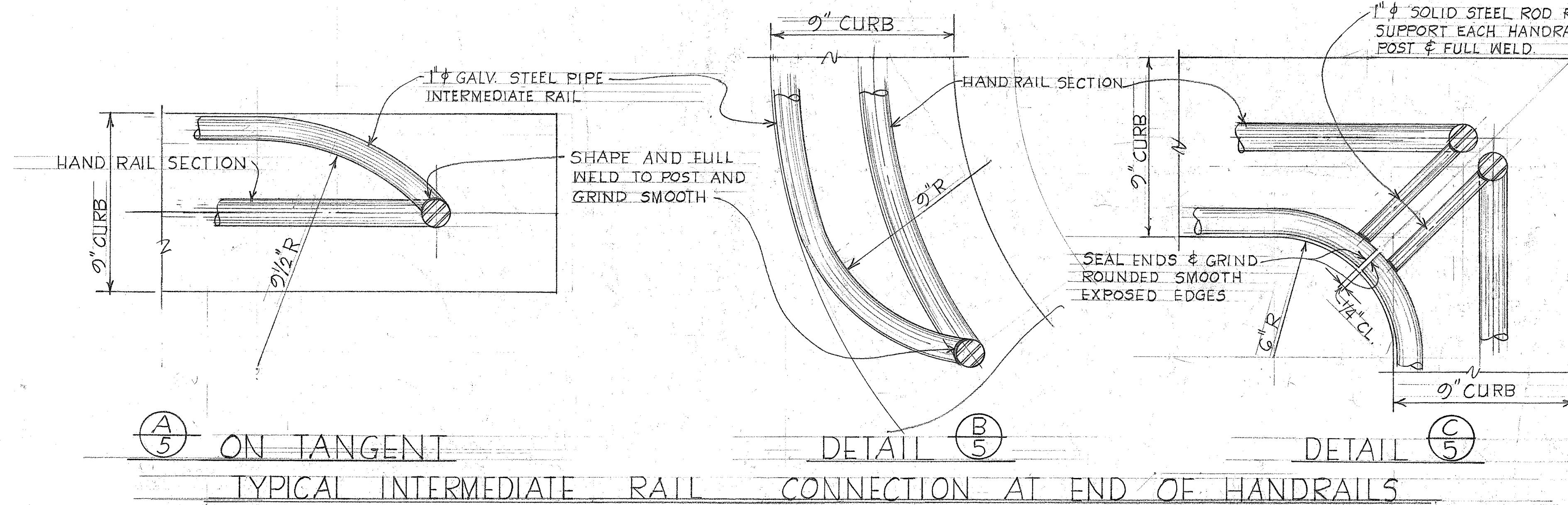
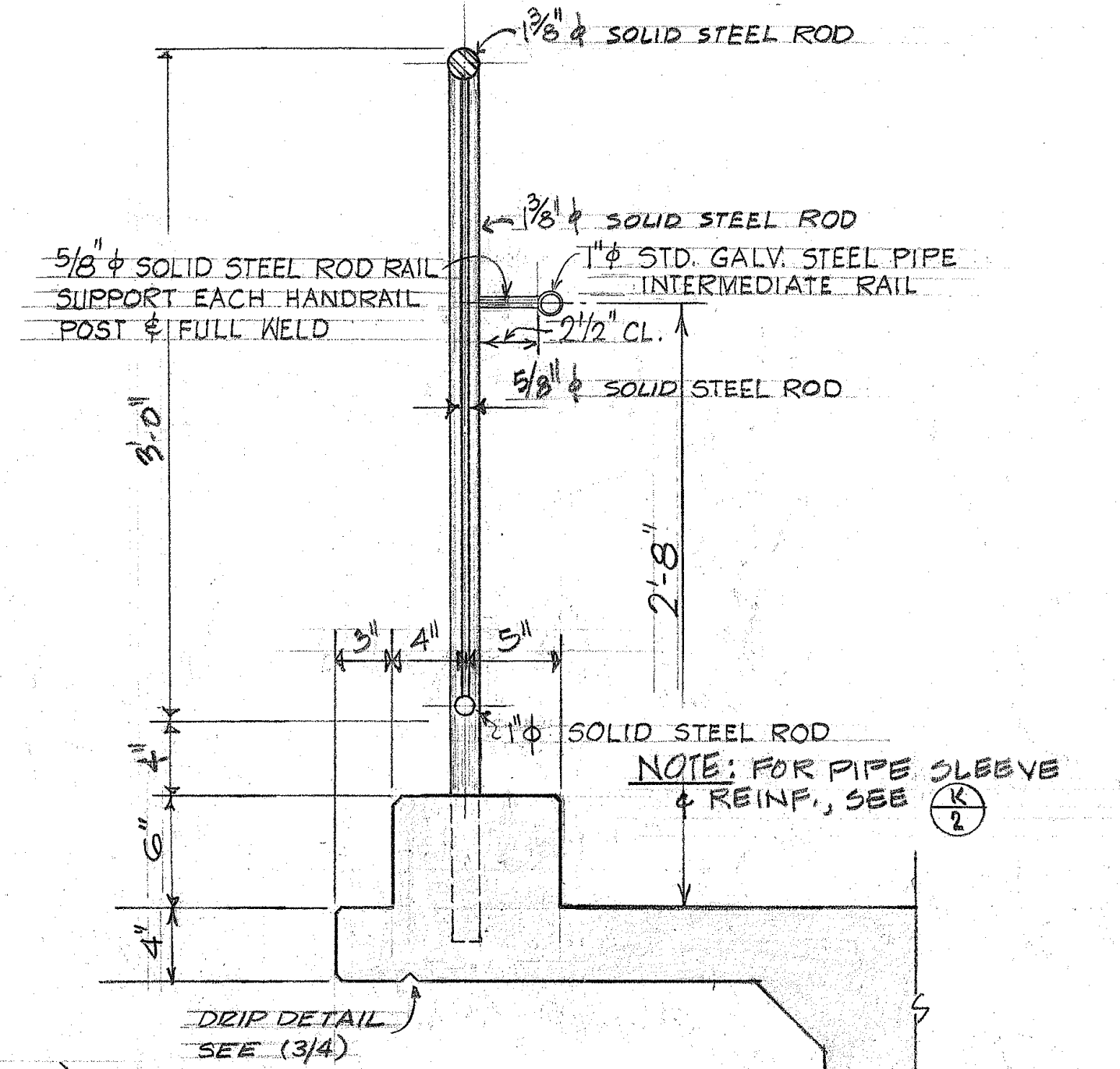
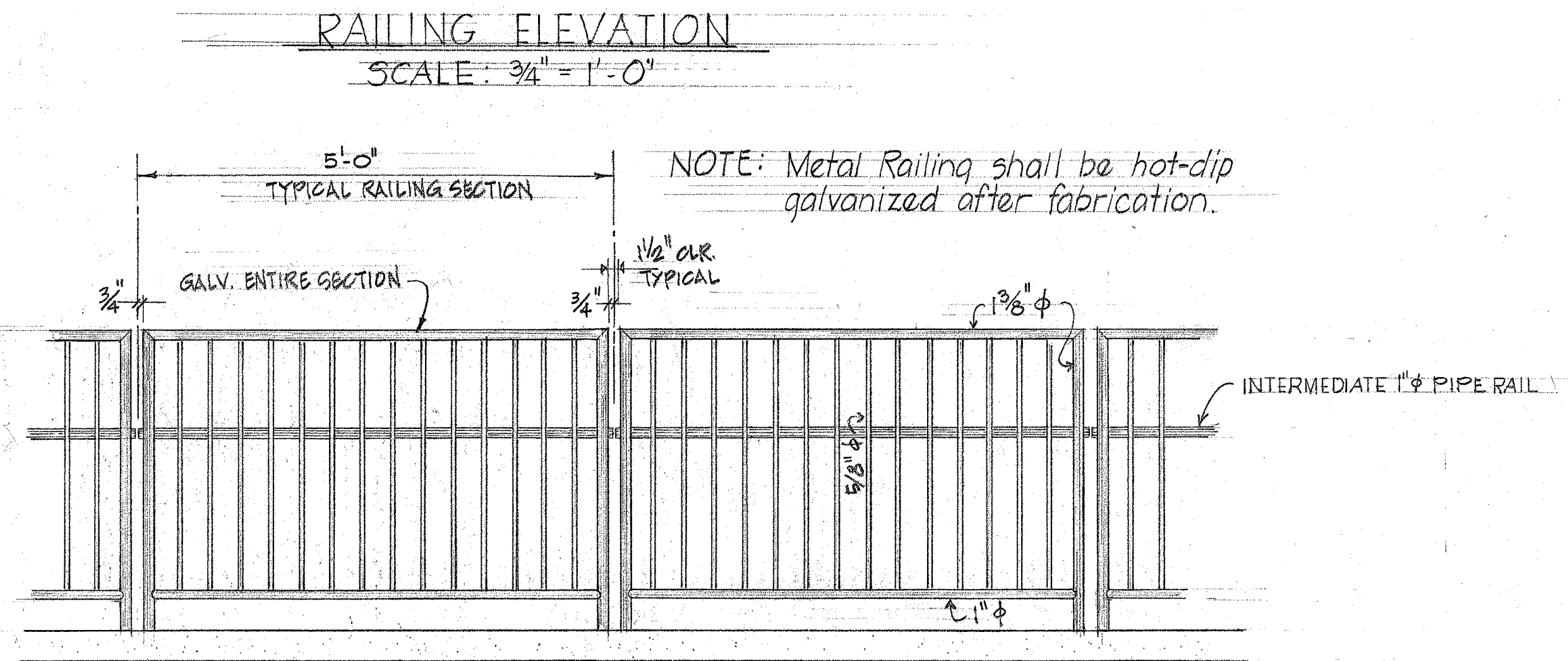
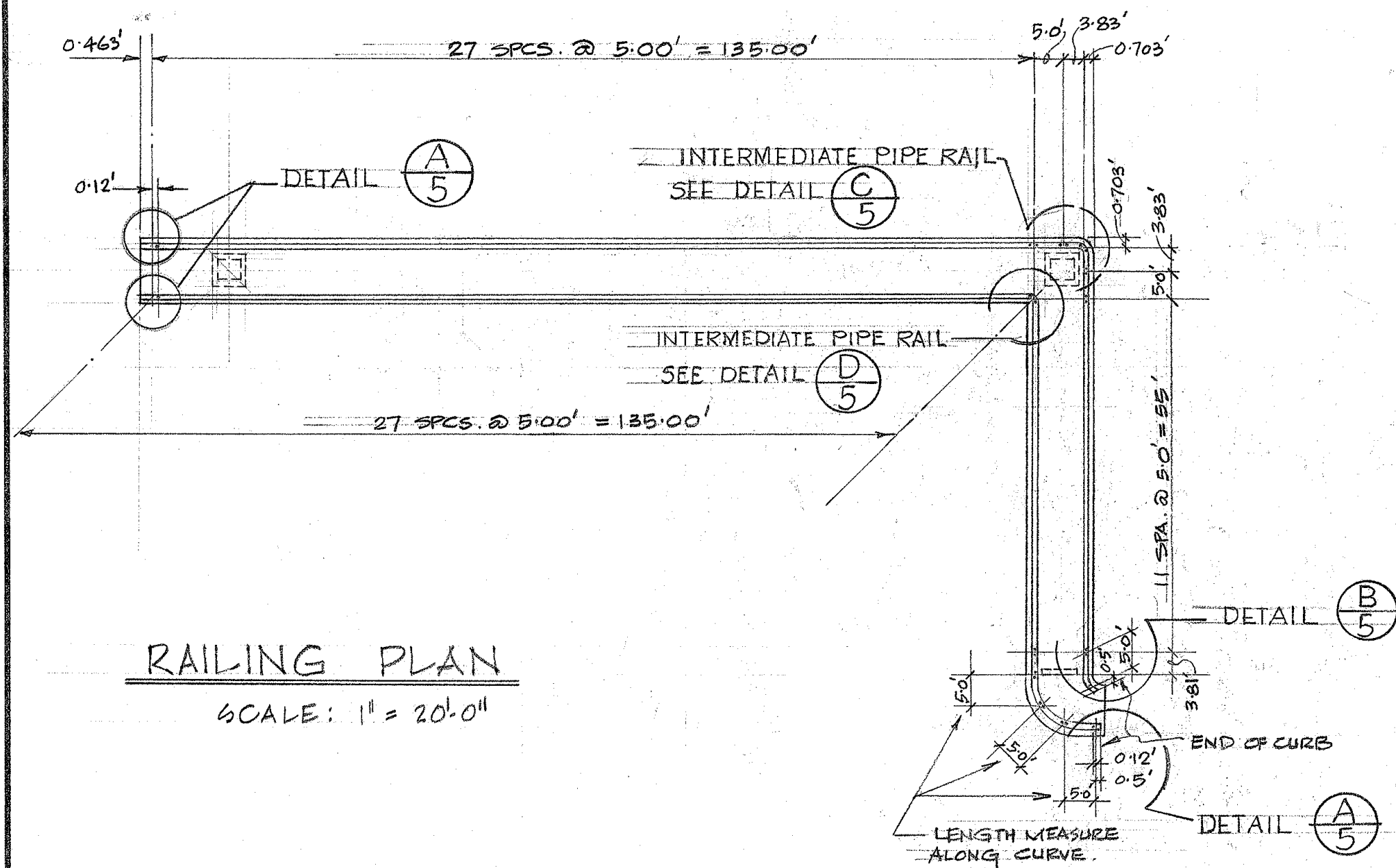


NOTE:
THE CONTRACTOR MAY BE REQUIRED TO PROVIDE SHEET PILING TO PREVENT EXCESSIVE EROSION TO THE EXCAVATION SLOPE IN ORDER TO MAINTAIN THE REQUIRED WIDTH NECESSARY INCLUDING GUARD RAIL FOR ROUTING VEHICULAR TRAFFIC.

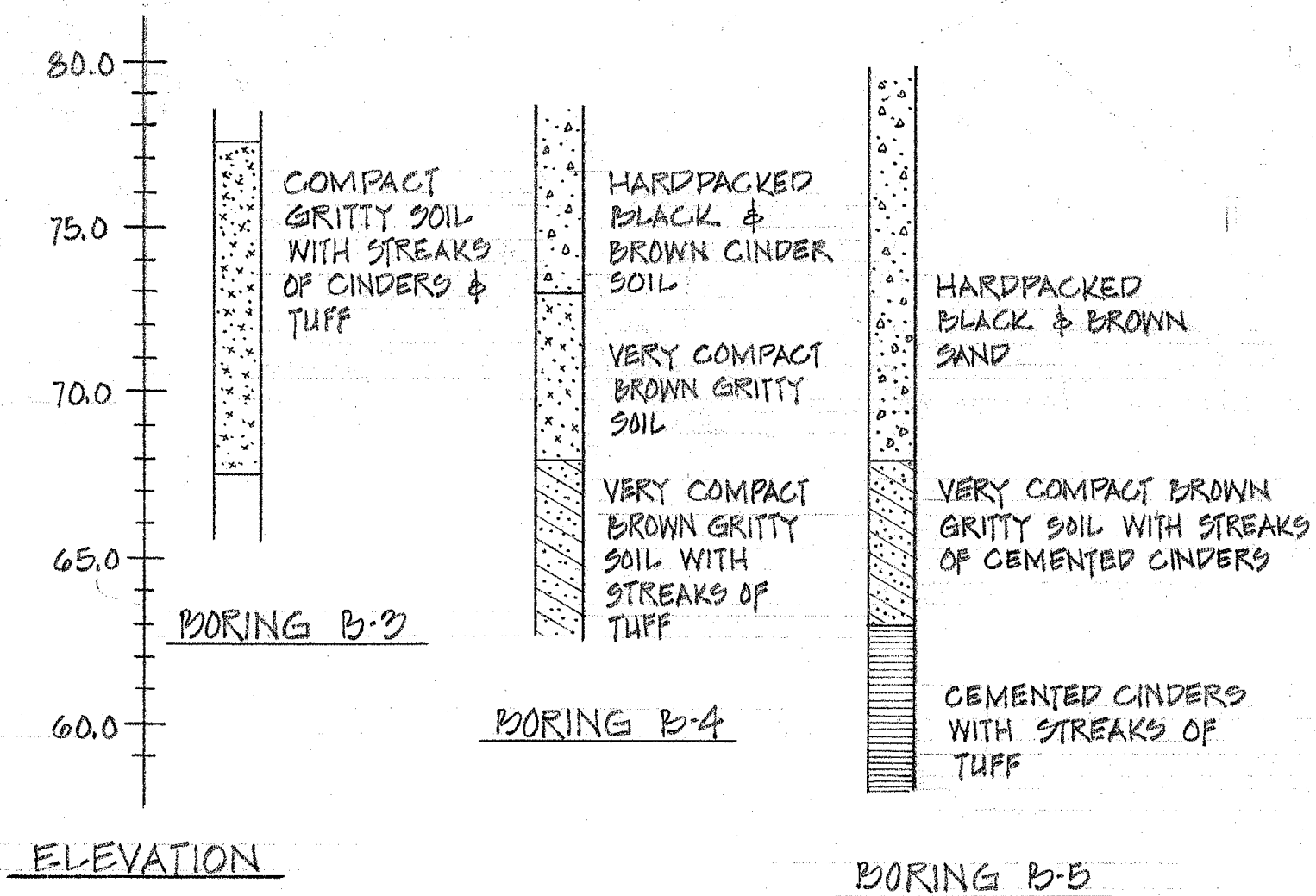
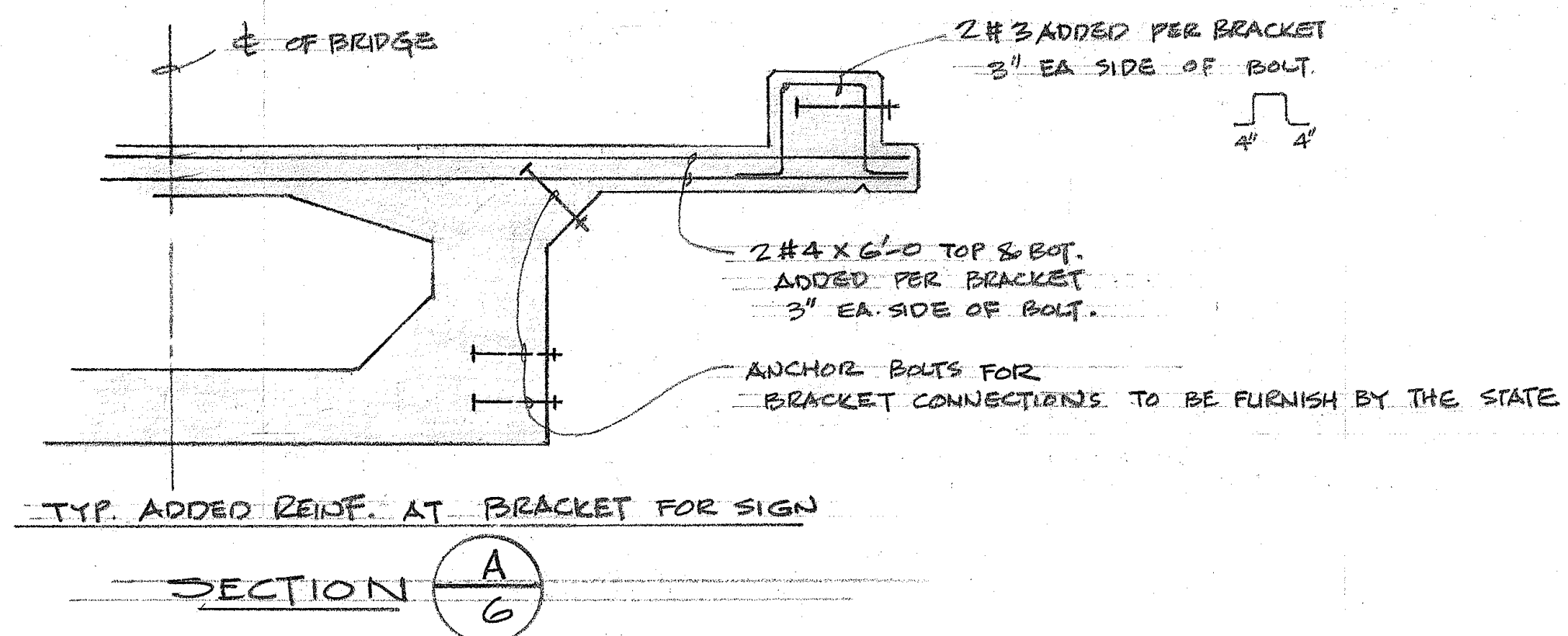


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
MILLER ST. PEDESTRIAN OVERCROSSING
PEDESTRIAN OVERPASSES OVER INTERSTATE H-1
AT MILLER STREET & ALAPAI STREET
FEDERAL AID INTERSTATE PROJECT NO. I-HI-1(31)21 UNIT 4
DATE 1-30-69
SHEET No. 3 OF 11 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-1(31) 21 Unit 4	1969	6	34



ITEMS	ESTIMATED QUANTITIES	LUMP SUMS
CONCRETE	221 CY	
REINFORCEMENT	15 TONS	
STRUCTURAL EXCAVATION	566 CY	
METAL RAILING	421 LF	
POST TENSION OPERATION		

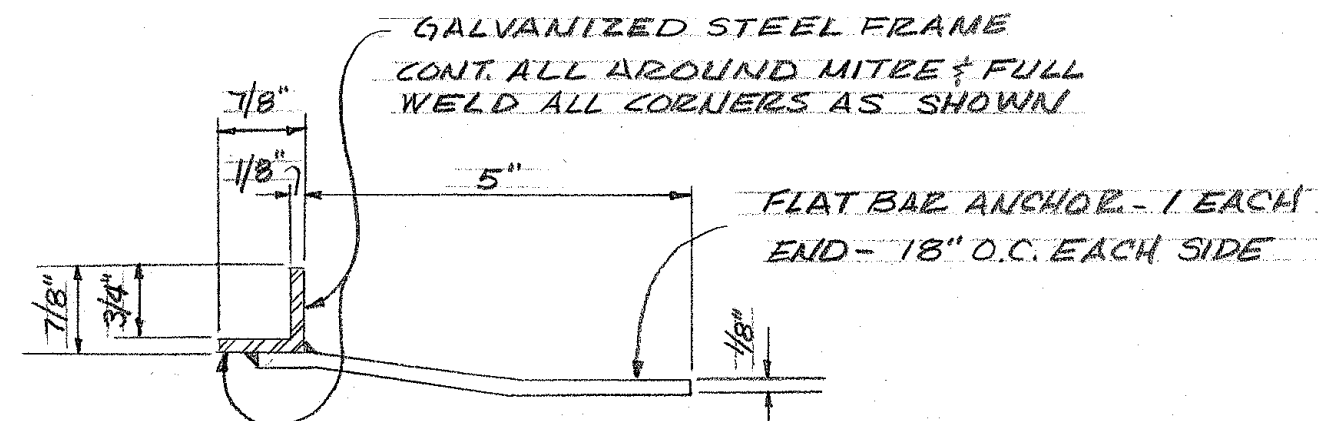
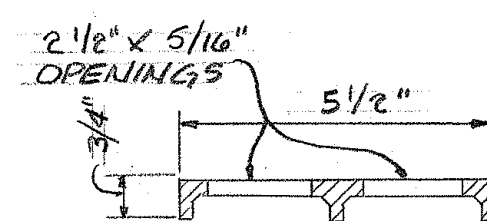
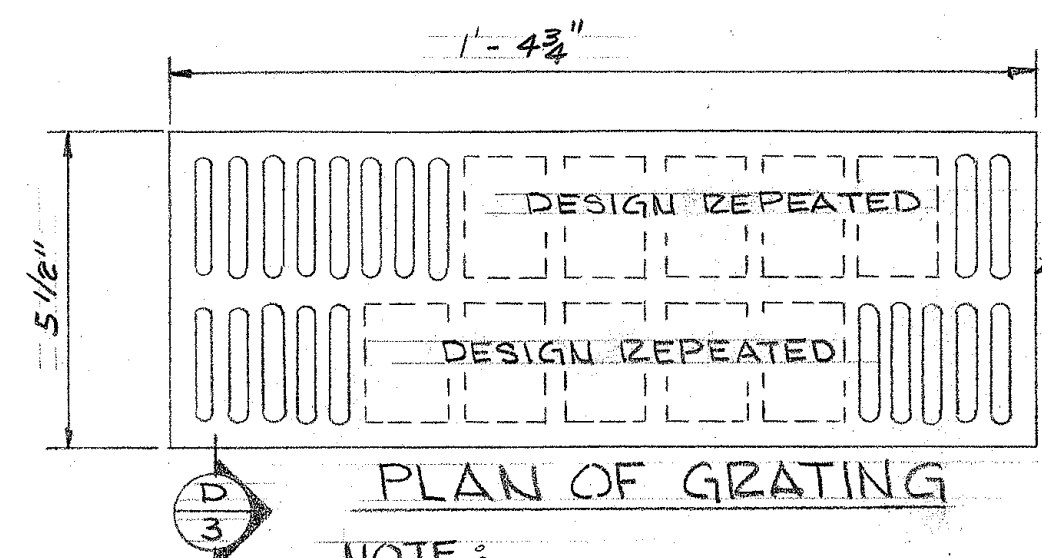
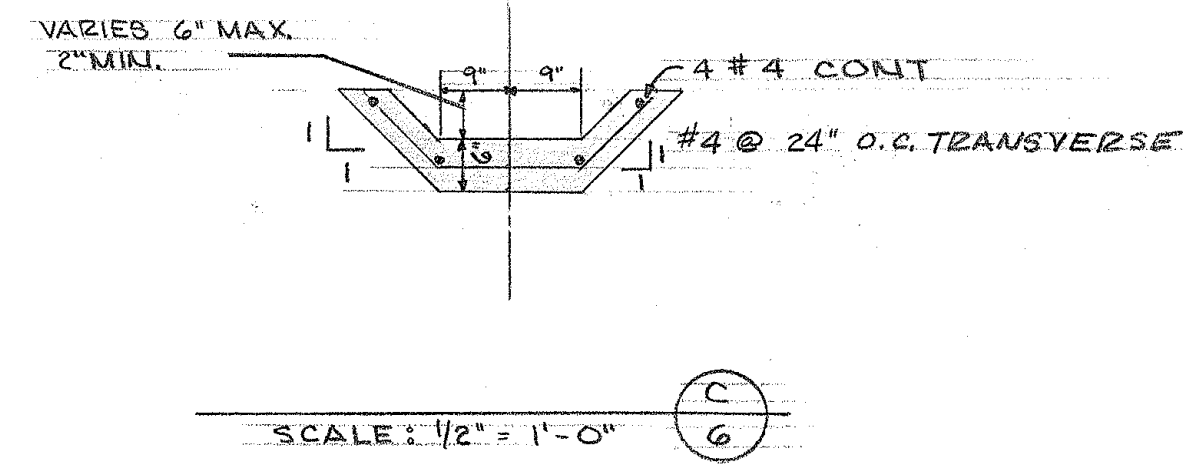
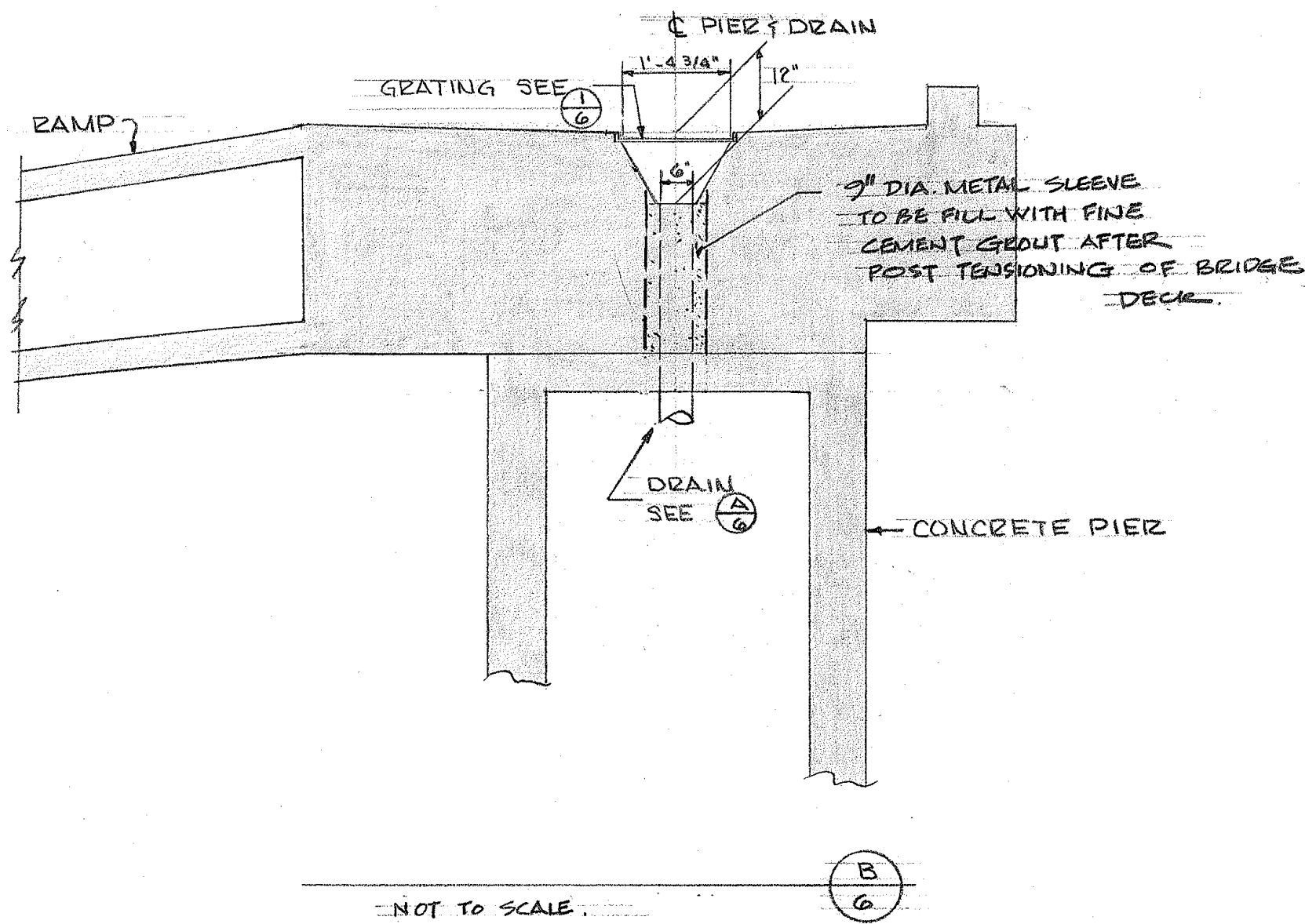
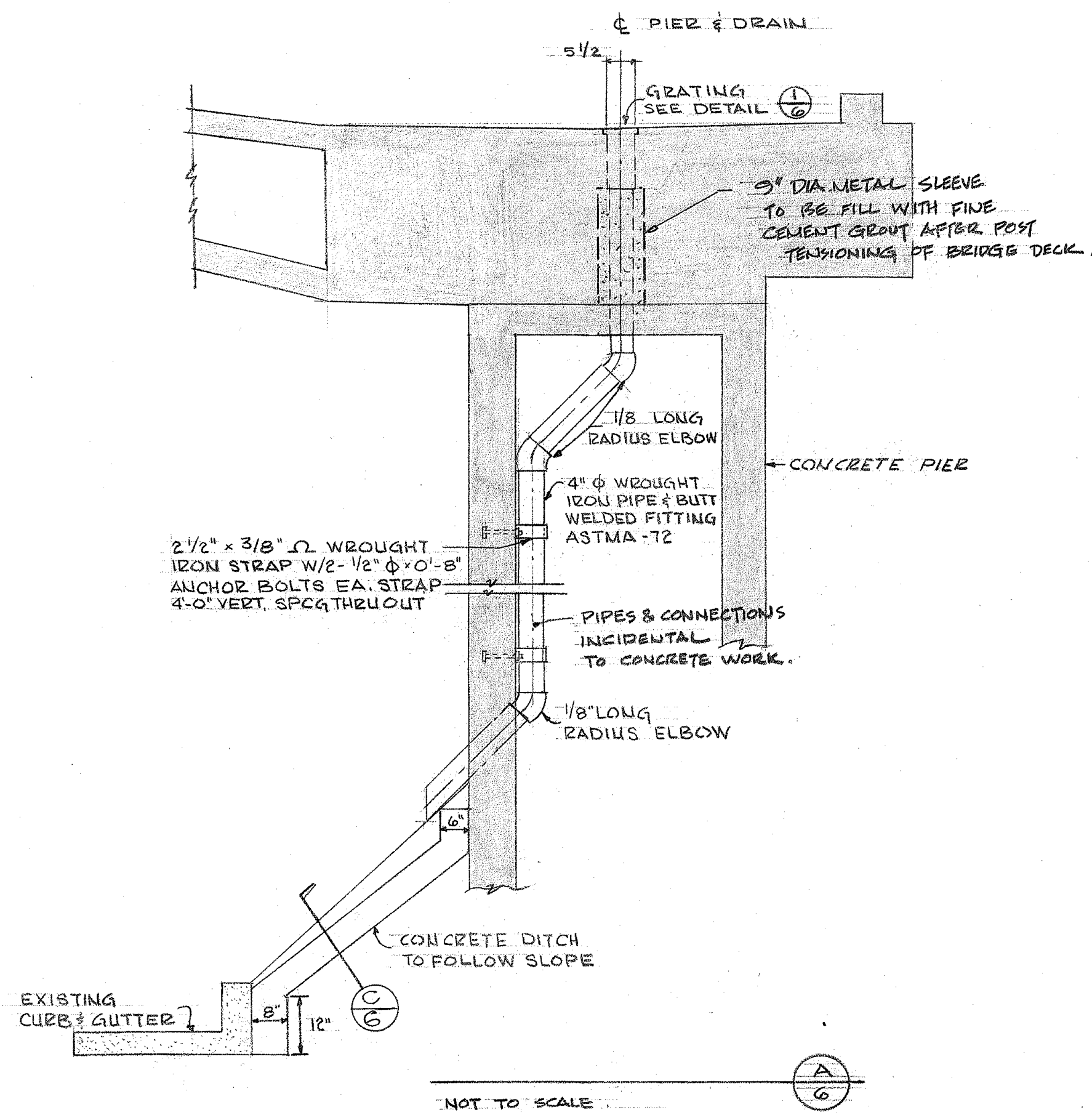


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
MILLER ST. PEDESTRIAN OVERCROSSING
PEDESTRIAN OVERPASSES OVER INTERSTATE H - 1
AT MILLER STREET & ALAPAI STREET
FEDERAL AID INTERSTATE PROJECT NO. 1 - HI - 1(31) 21 UNIT 4
DATE 1-30-69
SHEET No. 5 OF 11 SHEETS

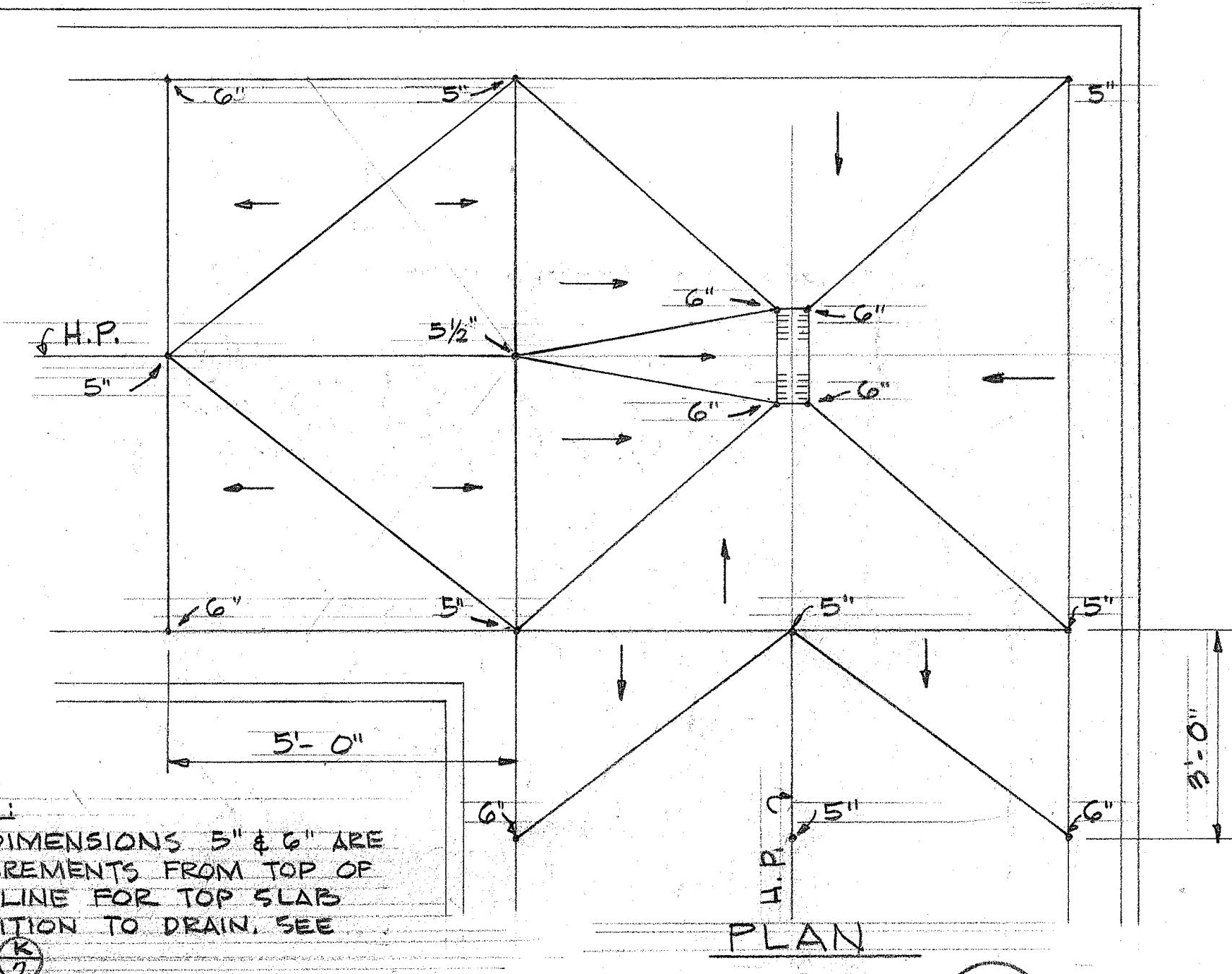
SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(31):21 Unit 4	1969	7	34

REV. APRIL 29, 1969



TYPICAL DRAIN FRAME AND GRATING DETAILS



NOTE: DIMENSIONS 5" & 6" ARE MEASUREMENTS FROM TOP OF CURB LINE FOR TOP SLAB TRANSITION TO DRAIN. SEE SECT. 2

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MILLER ST. PEDESTRIAN OVERCROSSING

PEDESTRIAN OVERPASSES OVER INTERSTATE H-1
AT MILLER STREET & ALAPAI STREET

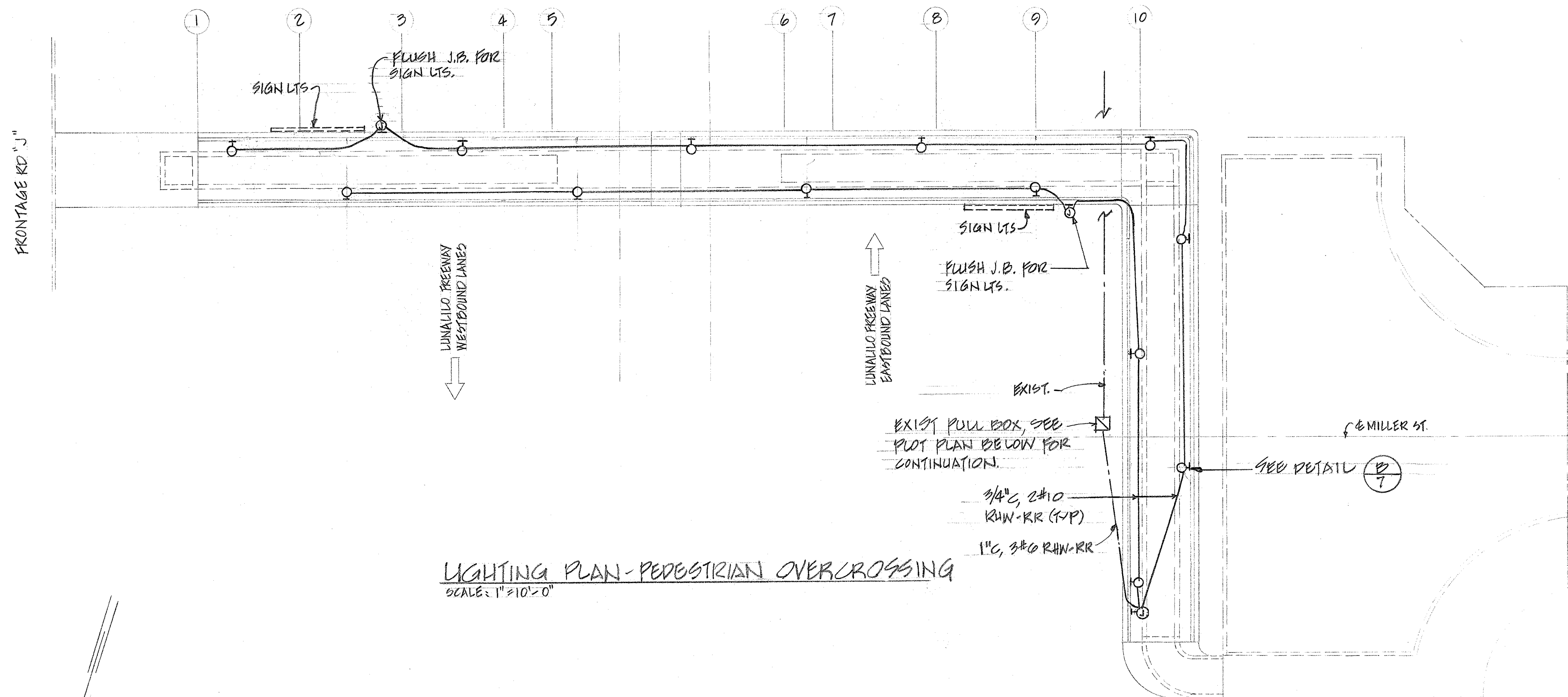
FEDERAL AID INTERSTATE PROJECT NO. I-HI-1(31):21 UNIT 4

DATE 1-30-69

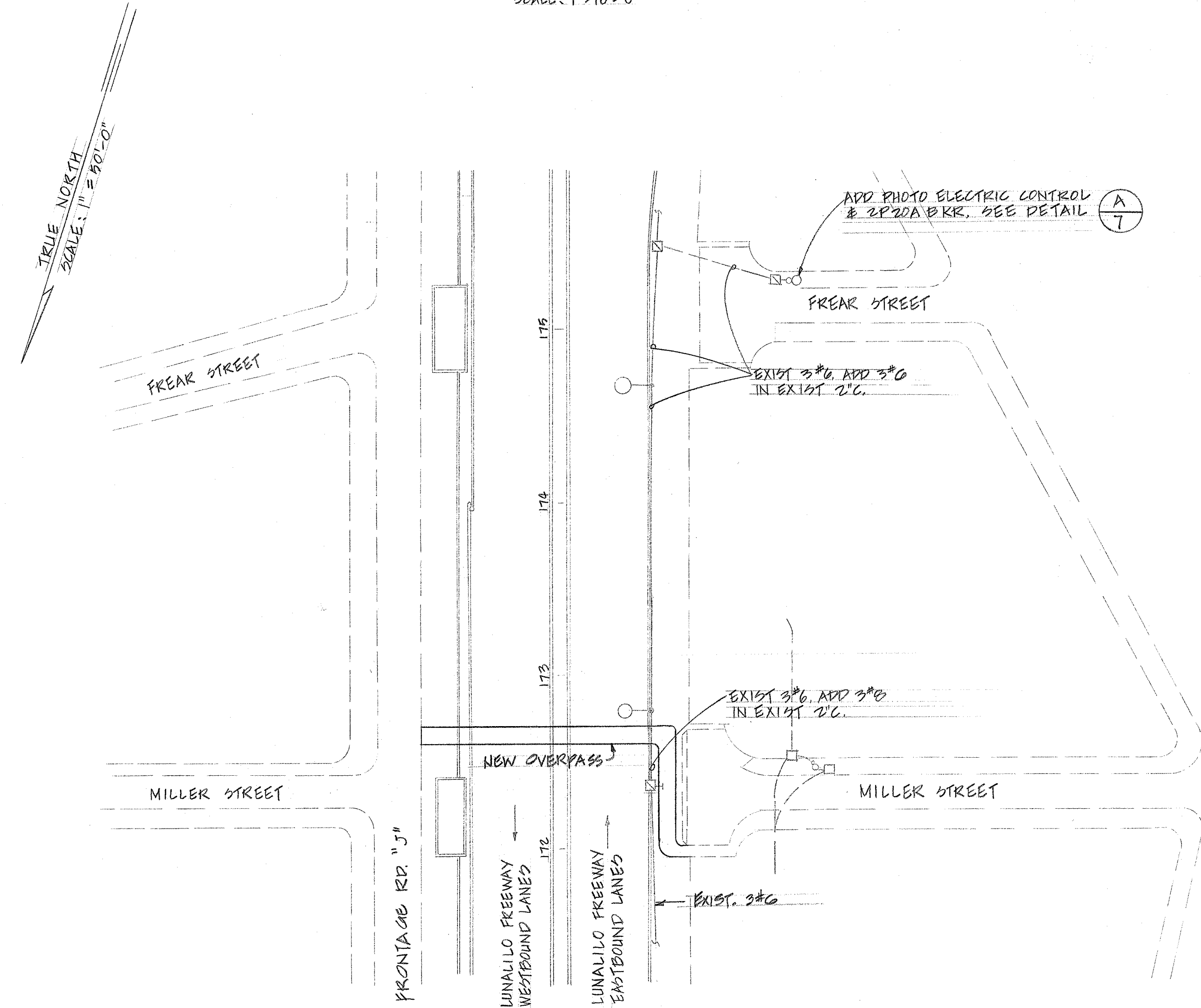
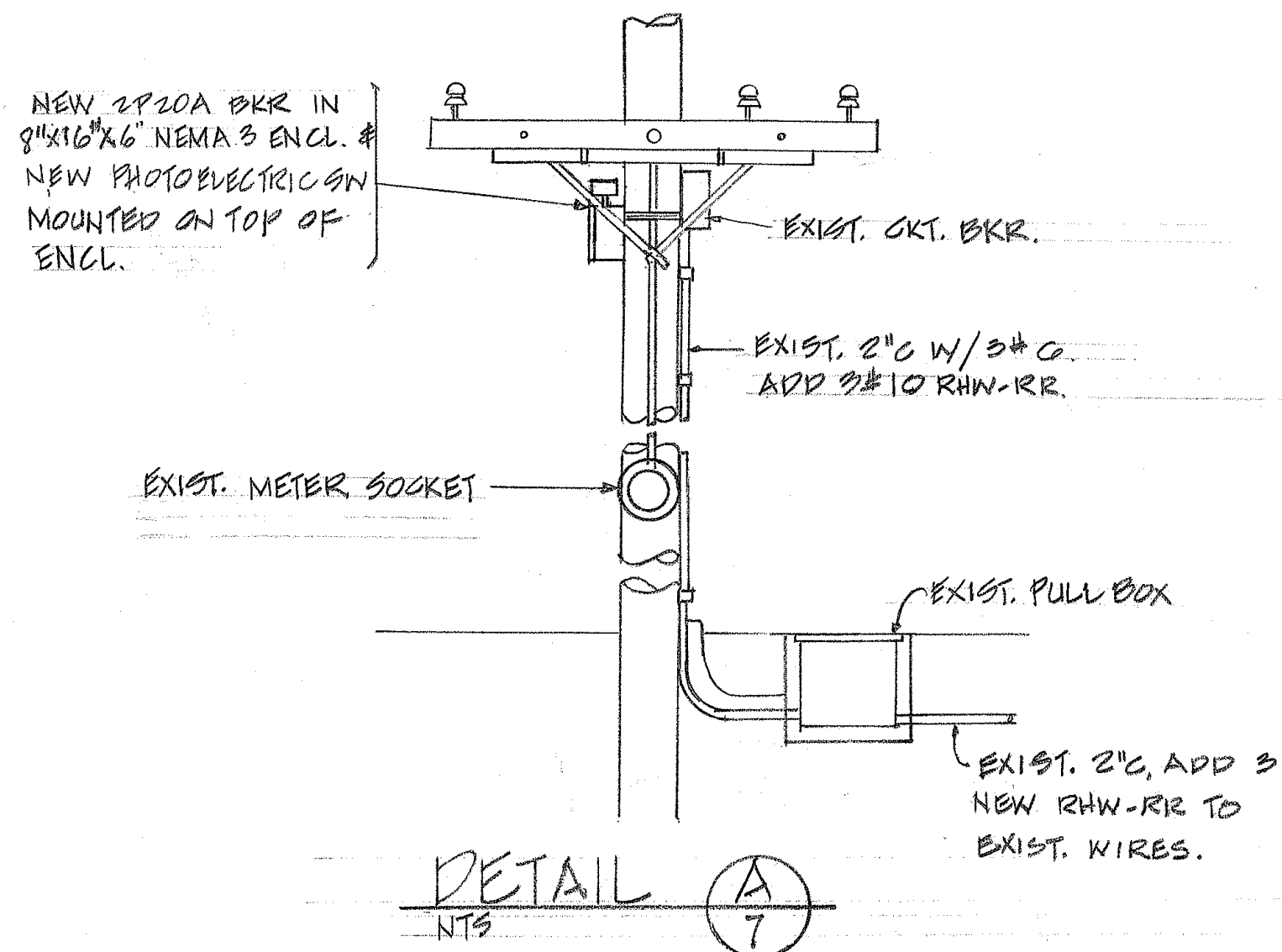
SHEET No. 6 OF 11 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	TRACED BY	
	QUANTITIES BY	
	CHECKED BY	

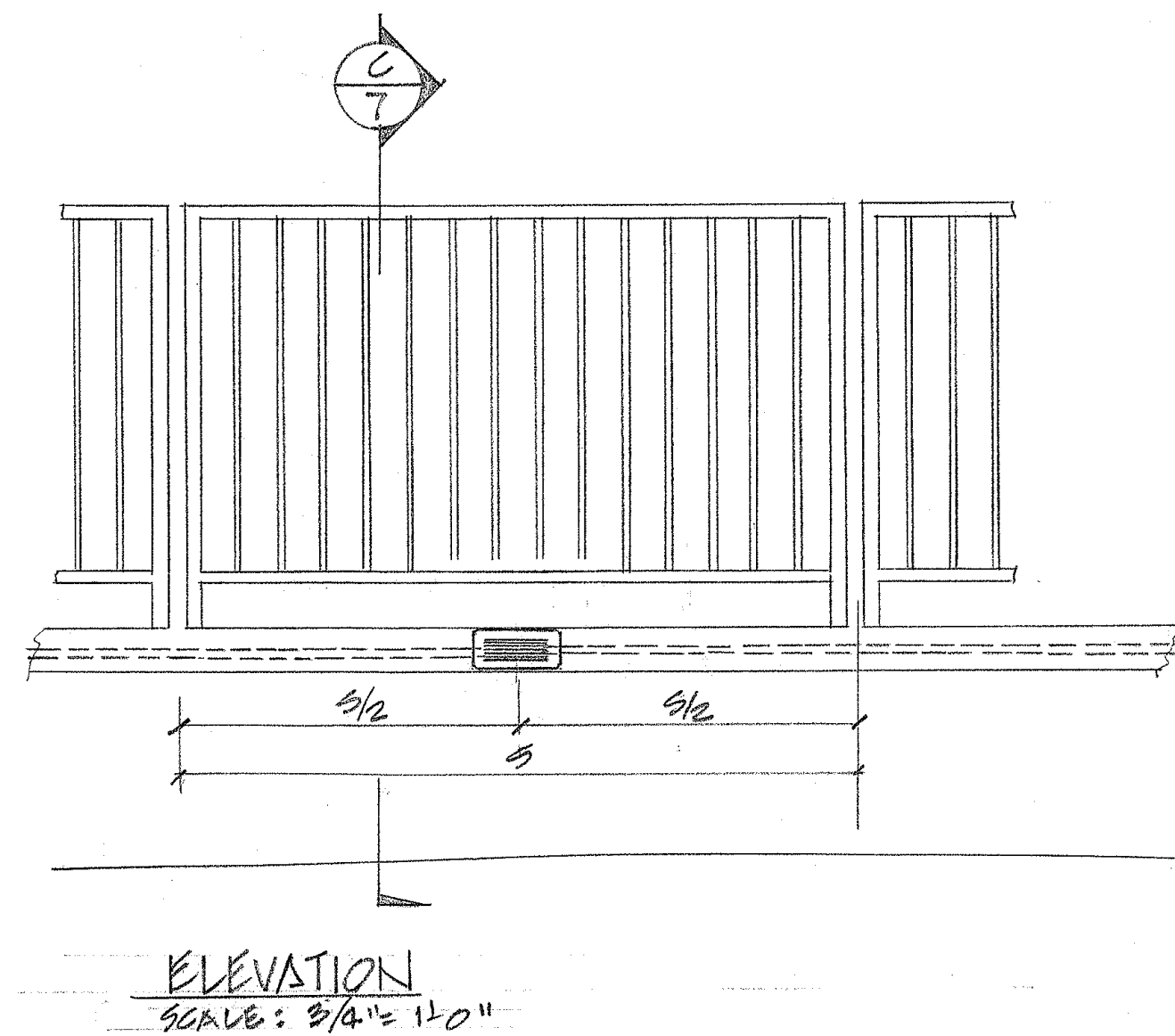
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	FH-1(30):21 Unit 4	1969	8	34



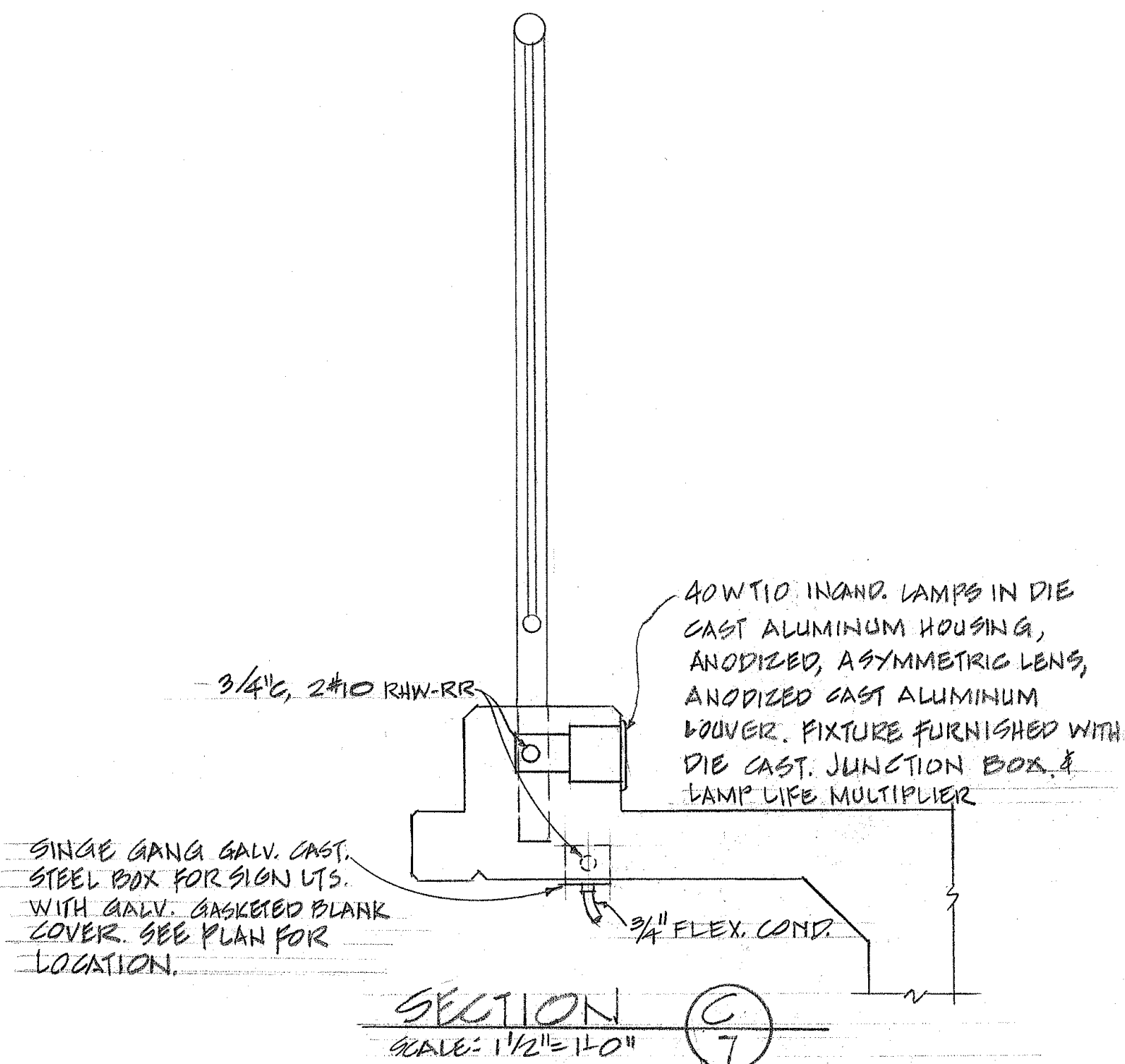
LIGHTING PLAN-PEDESTRIAN OVERCROSSING
SCALE: 1"=10'-0"



ELECTRICAL PLOT PLAN
SCALE: 1"=90'-0"



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

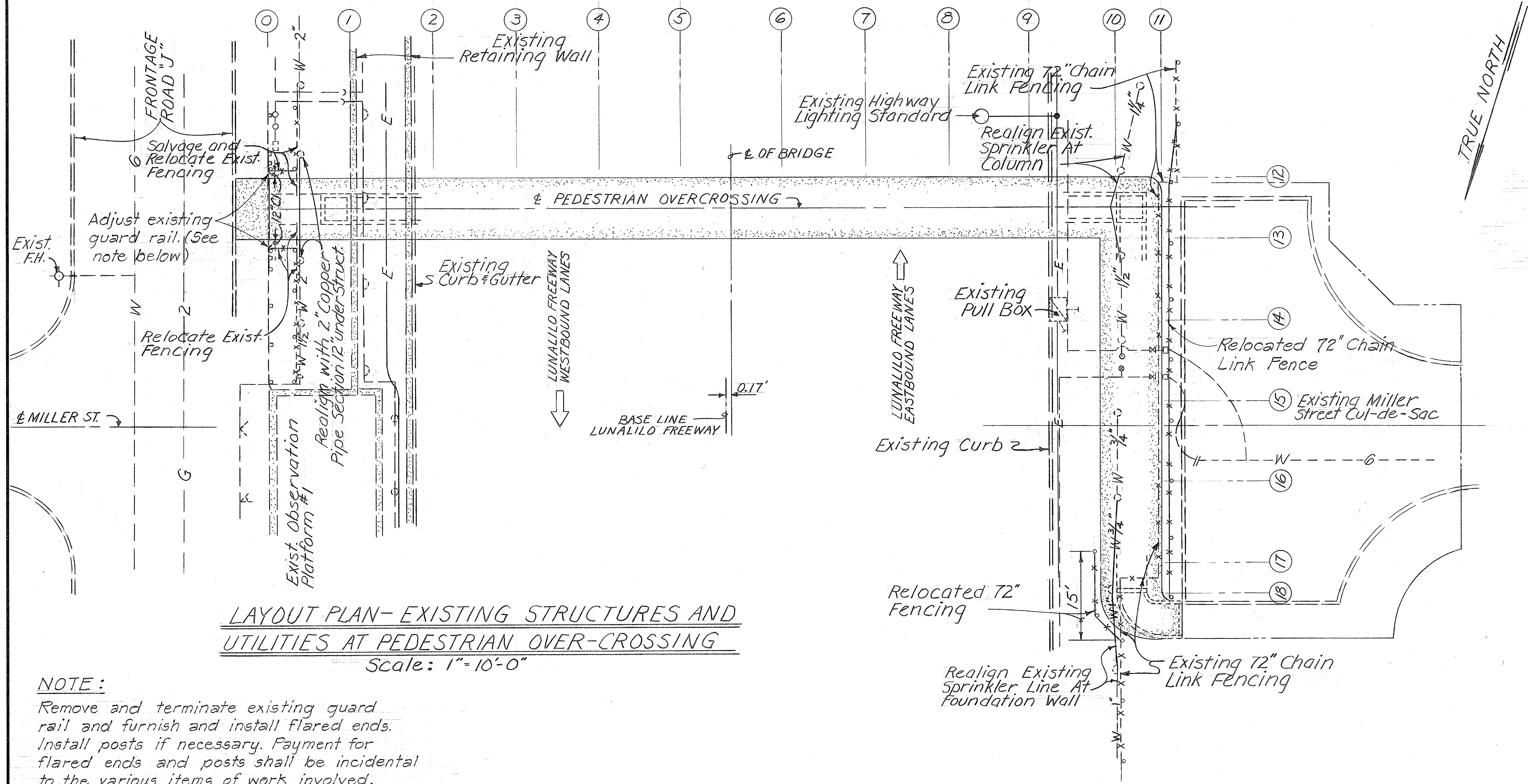


FIXTURE DETAIL B-7

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
MILLER ST. PEDESTRIAN OVERCROSSING
PEDESTRIAN OVERPASSES OVER INTERSTATE H-1
AT MILLER STREET & ALAPAI STREET
FEDERAL AID INTERSTATE PROJECT NO. I-HI-1(31):21 UNIT 4
DATE 1-30-69
SHEET No. 7 OF 11 SHEETS

ORIGINAL PLAN	DATE
DESIGNED BY	DATE
TRACED BY	DATE
QUANTITIES BY	DATE
CHECKED BY	DATE
NOTE BOOK	DATE
No.	DATE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(3):21 Unit 4	1969	9	34



NOTE:

Payment for adjusting, relocating, removing existing facilities or any other incidental type of work required to construct both Miller Street and Alapai Street Pedestrian Overpasses shall not be paid for separately but shall be considered incidental to the various items of work involved.

LAYOUT PLAN-EXISTING STRUCTURES AND UTILITIES AT PEDESTRIAN OVER-CROSSING
Scale: 1"=10'-0"

NOTE:

Remove and terminate existing guard rail and furnish and install flared ends. Install posts if necessary. Payment for flared ends and posts shall be incidental to the various items of work involved.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MILLER ST. PEDESTRIAN OVERCROSSING

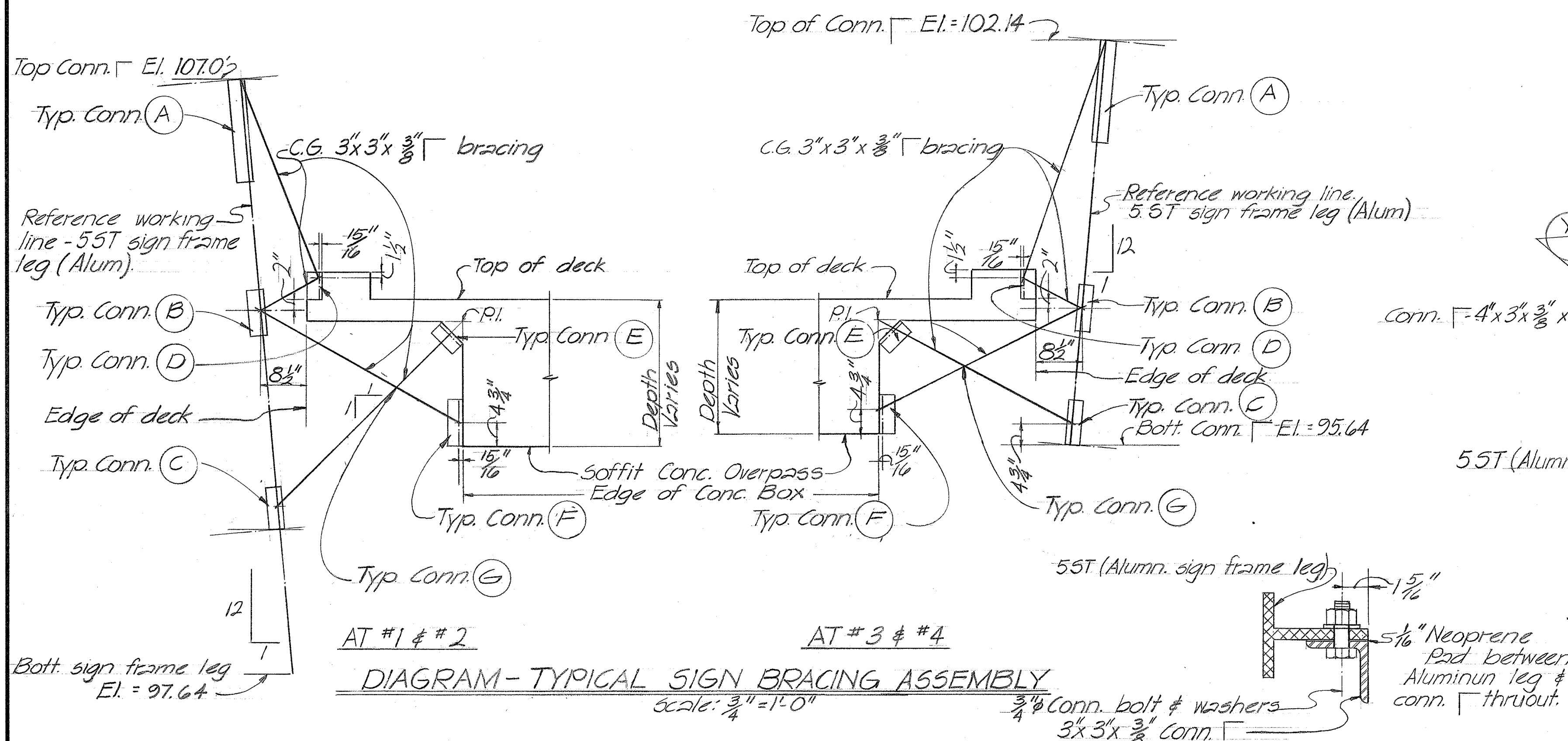
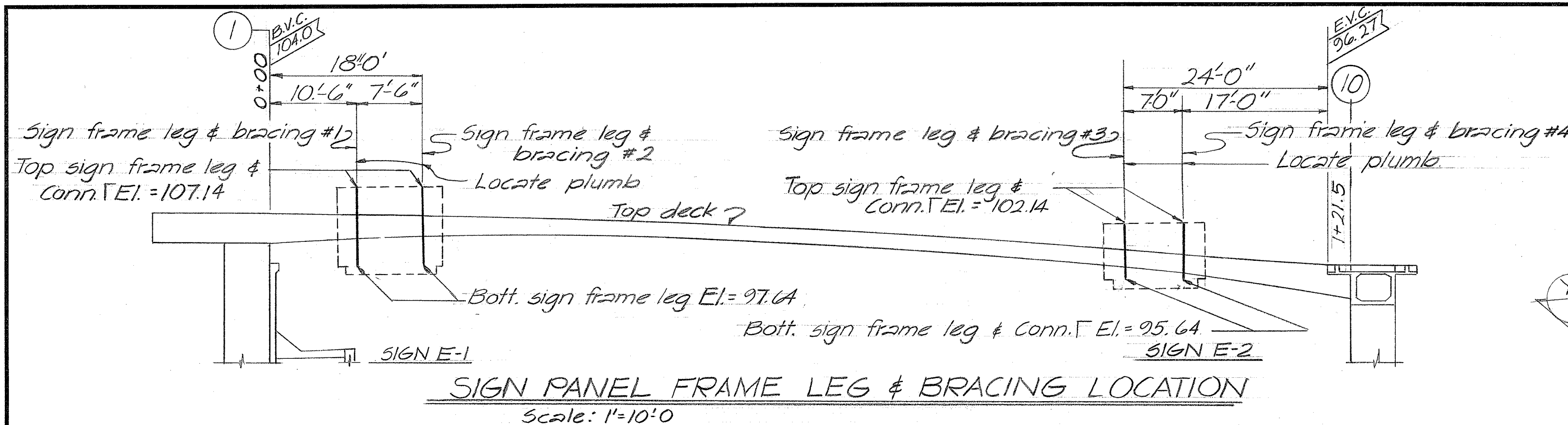
PEDESTRIAN OVERPASSES OVER INTERSTATE H - 1
AT MILLER STREET & ALAPAI STREET

FEDERAL AID INTERSTATE PROJECT NO. I-H-1(3): 21 UNIT 4

DATE March 13, 1969

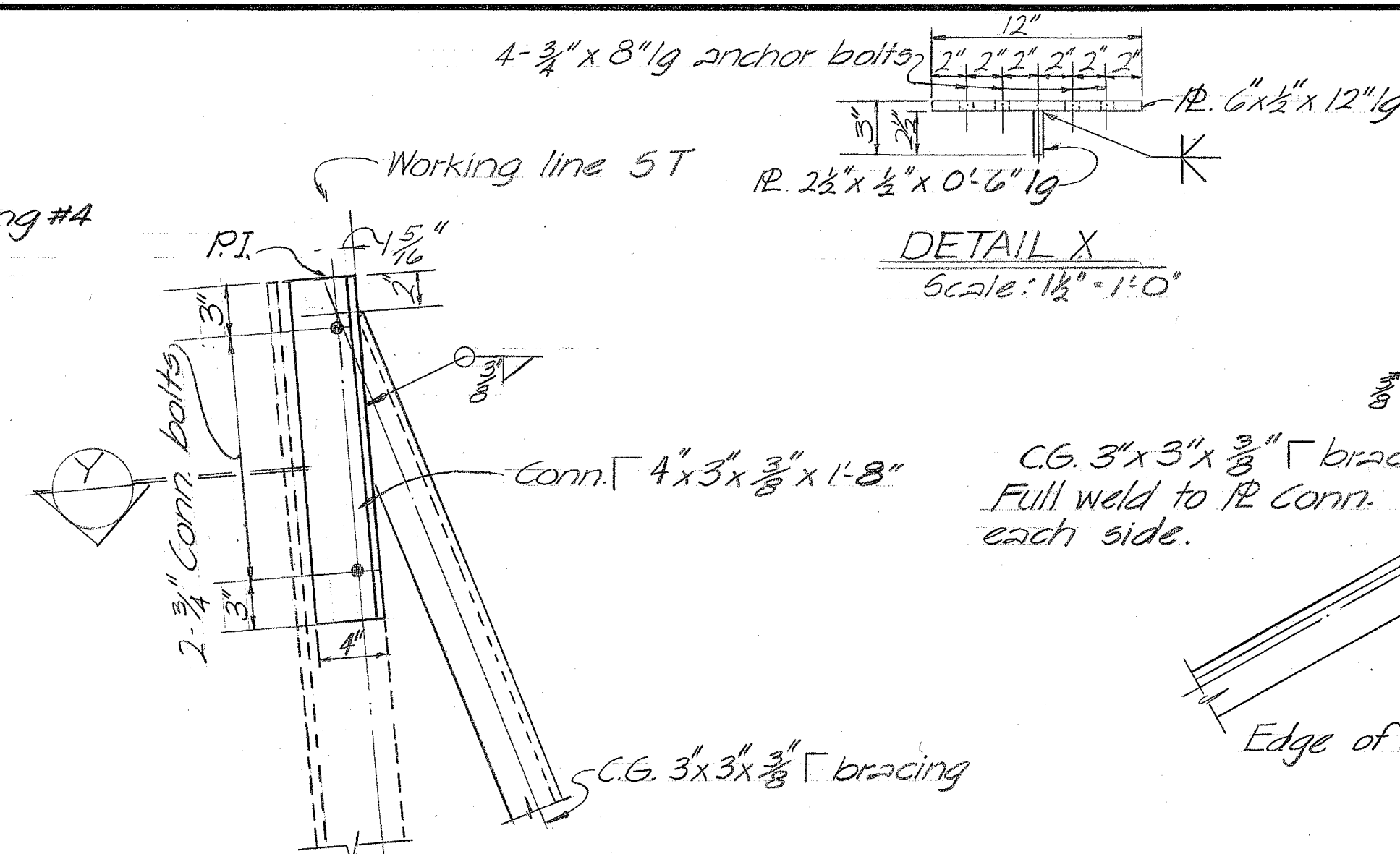
SHEET No. 8 OF 11 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(31)21 Unit 4	1969	10	34



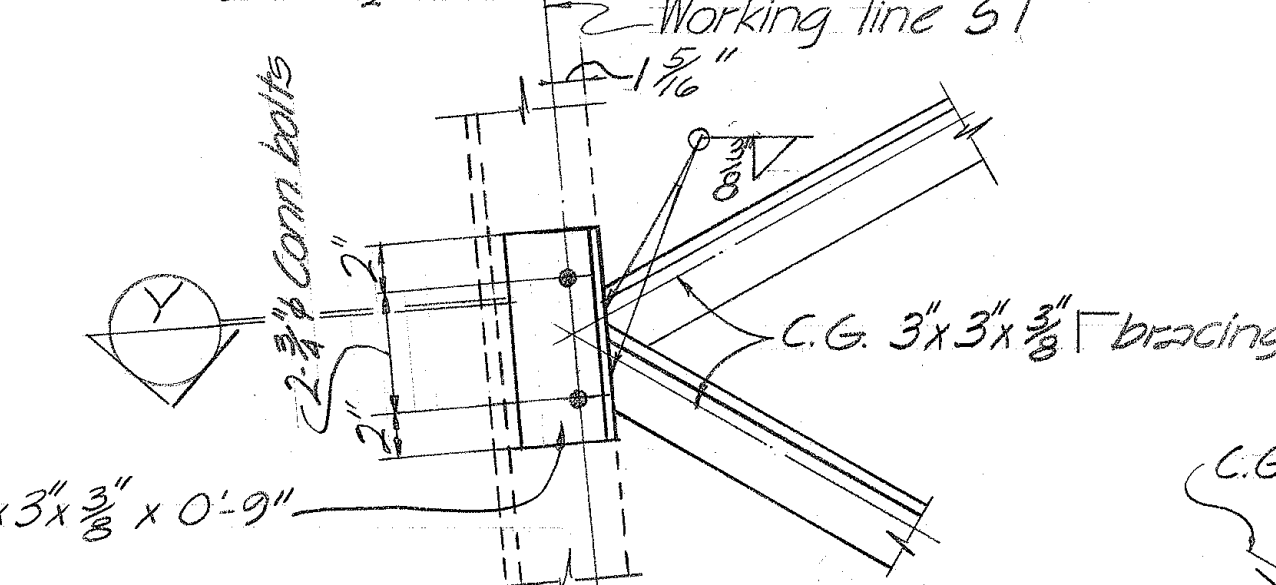
SECTION Y

Scale: 3"=1'-0"



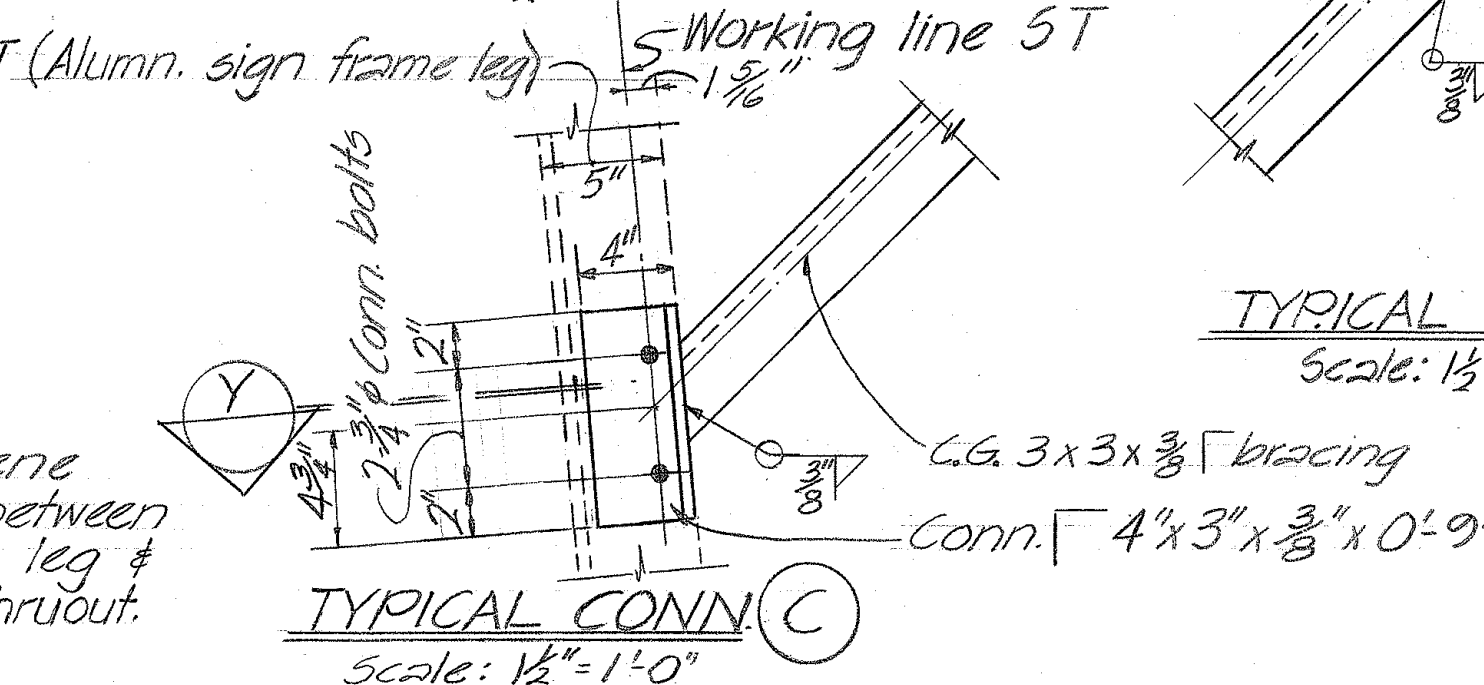
TYPICAL CONN. (A)

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



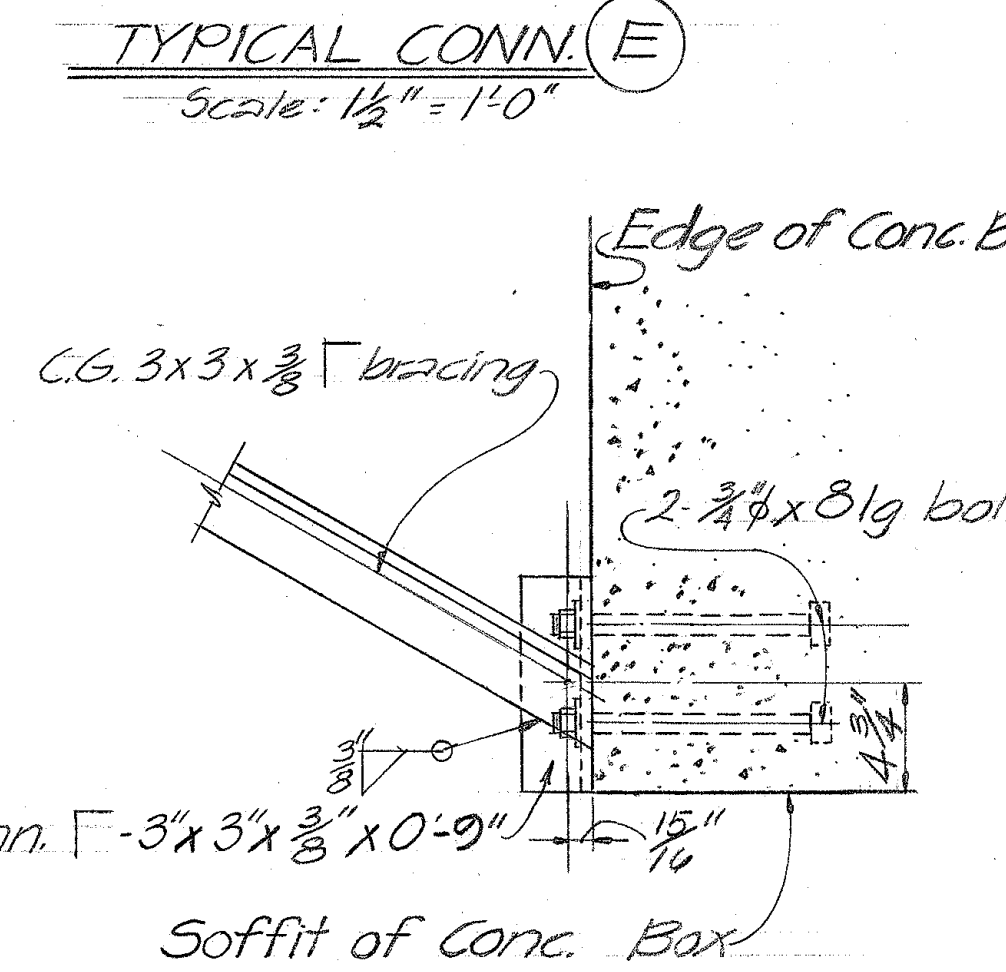
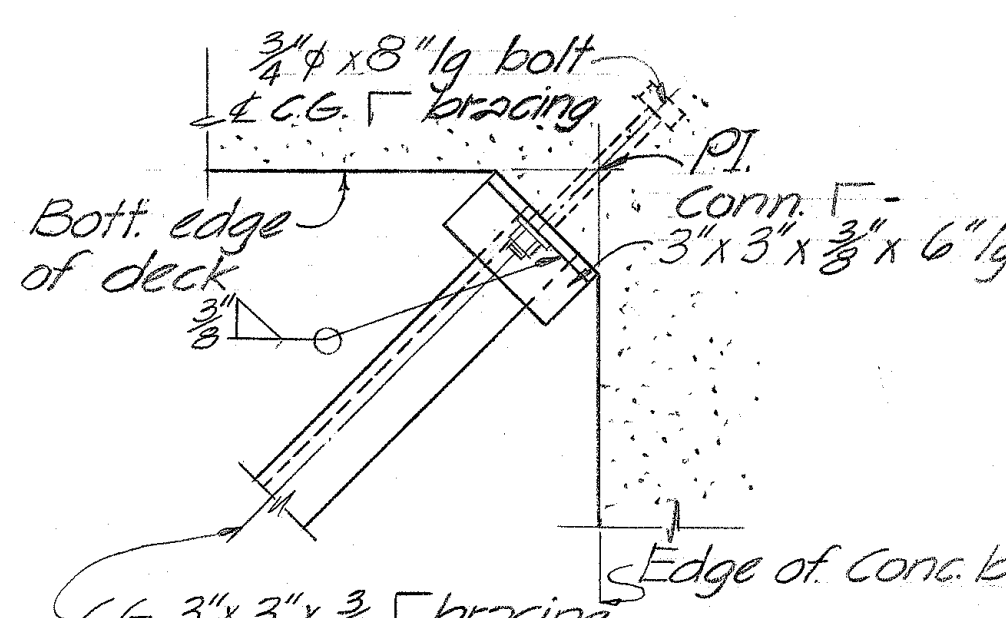
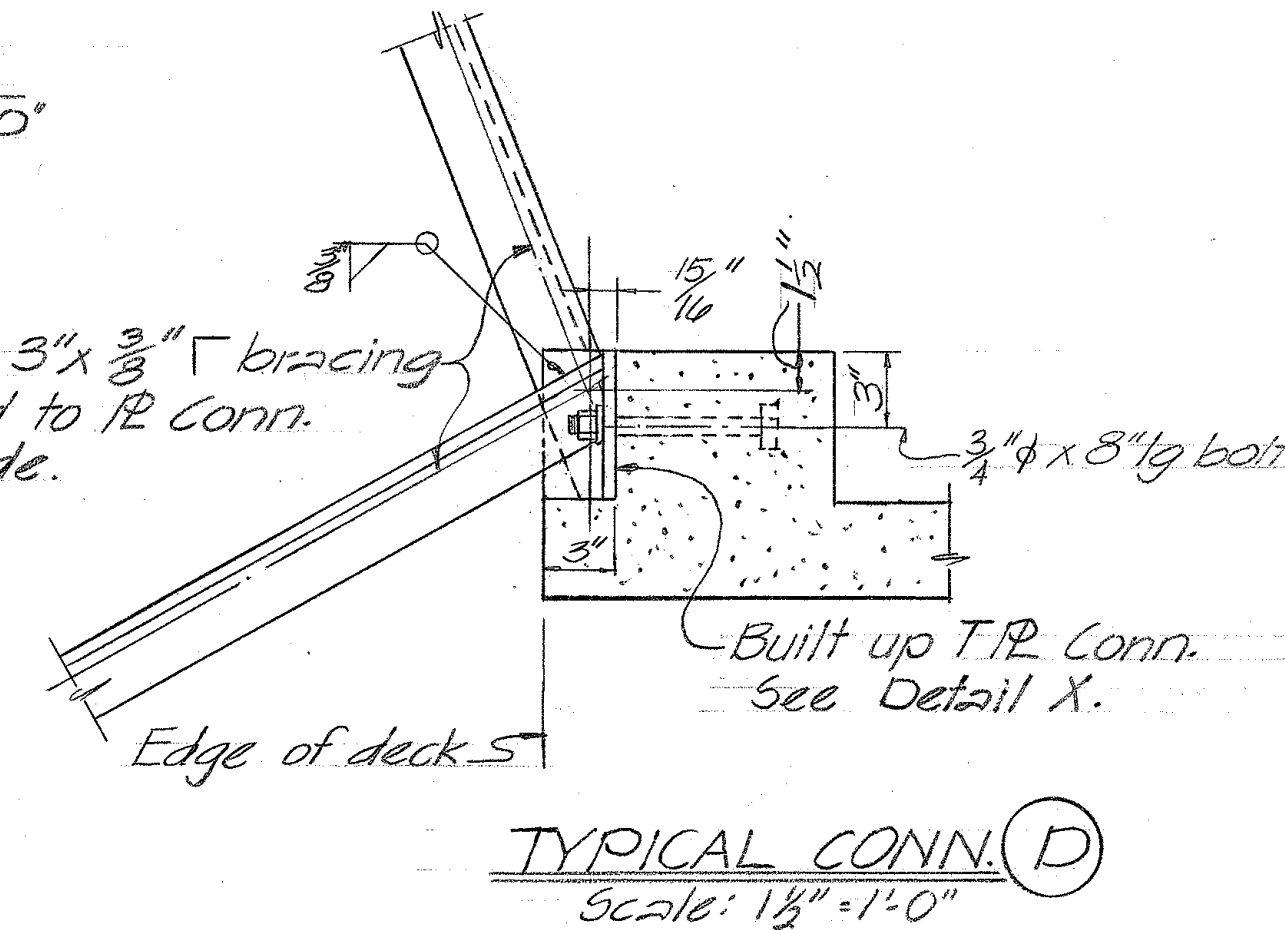
TYPICAL CONN. (B)

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



GENERAL NOTES

- Structural Steel: All structural steel shall be Structural Carbon Steel, A.S.T.M. Designation A-36.
- Welding: All welding shall conform to the latest Standard Specifications for welded Highway and Railway Bridges (Design, Construction and Repair) of American Welding Society.
- Fabrication of Structural Steel shall conform to the requirements of the Standard Specifications.
- All structural steel assemblies, including plates and bolts shall be galvanized after fabrication, in accordance with the requirements of the Standard Specifications.
- All damaged galvanized surfaces shall be repaired by field galvanizing as specified in Subarticle 44.3 (I) of the Special Provisions.
- All dimensions for sign bracket assembly shall be verified in the field by the contractors before fabrication of assembly.



TYPICAL CONN. (F)

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

STATE OF HAWAII
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HIGHWAYS DIVISION

MILLER ST. PEDESTRIAN OVERCROSSING
PEDESTRIAN OVERPASSES OVER INTERSTATE H-1
AT MILLER STREET & ALAPAI STREET

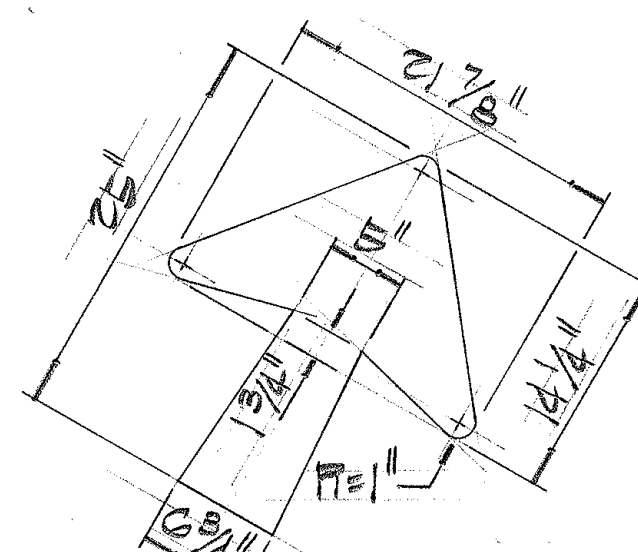
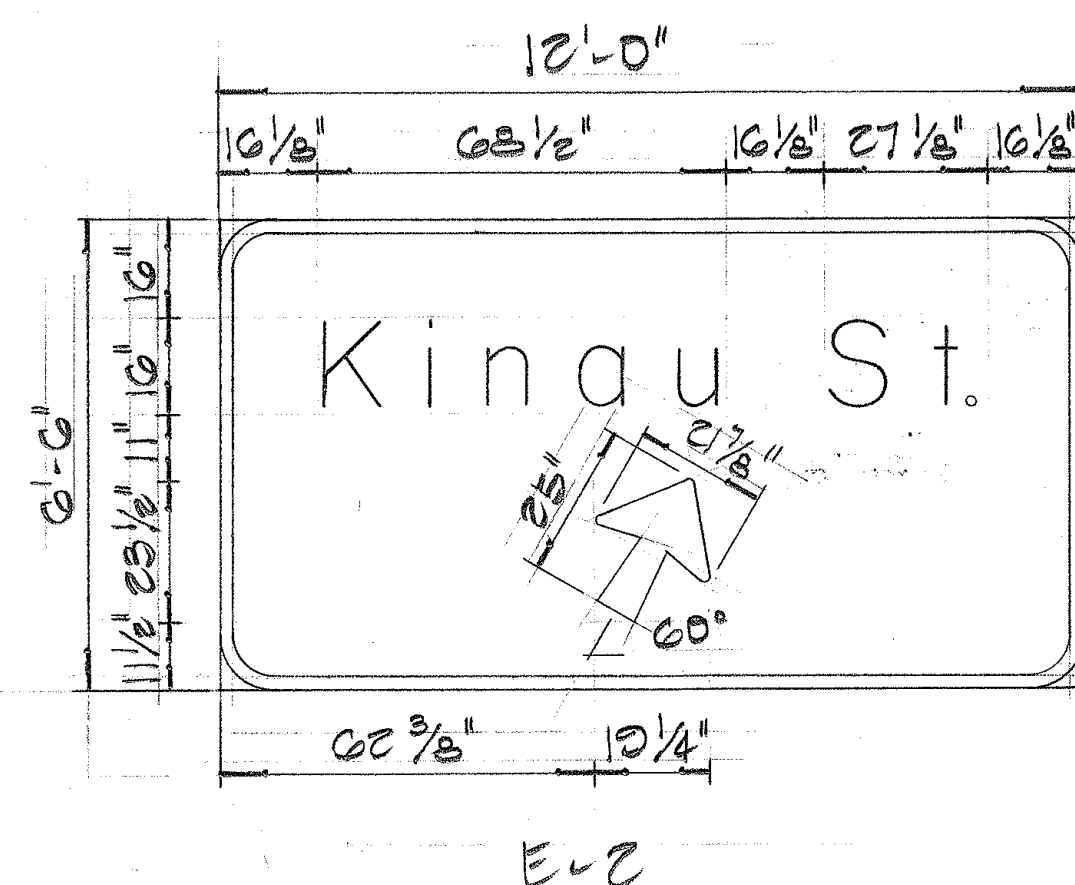
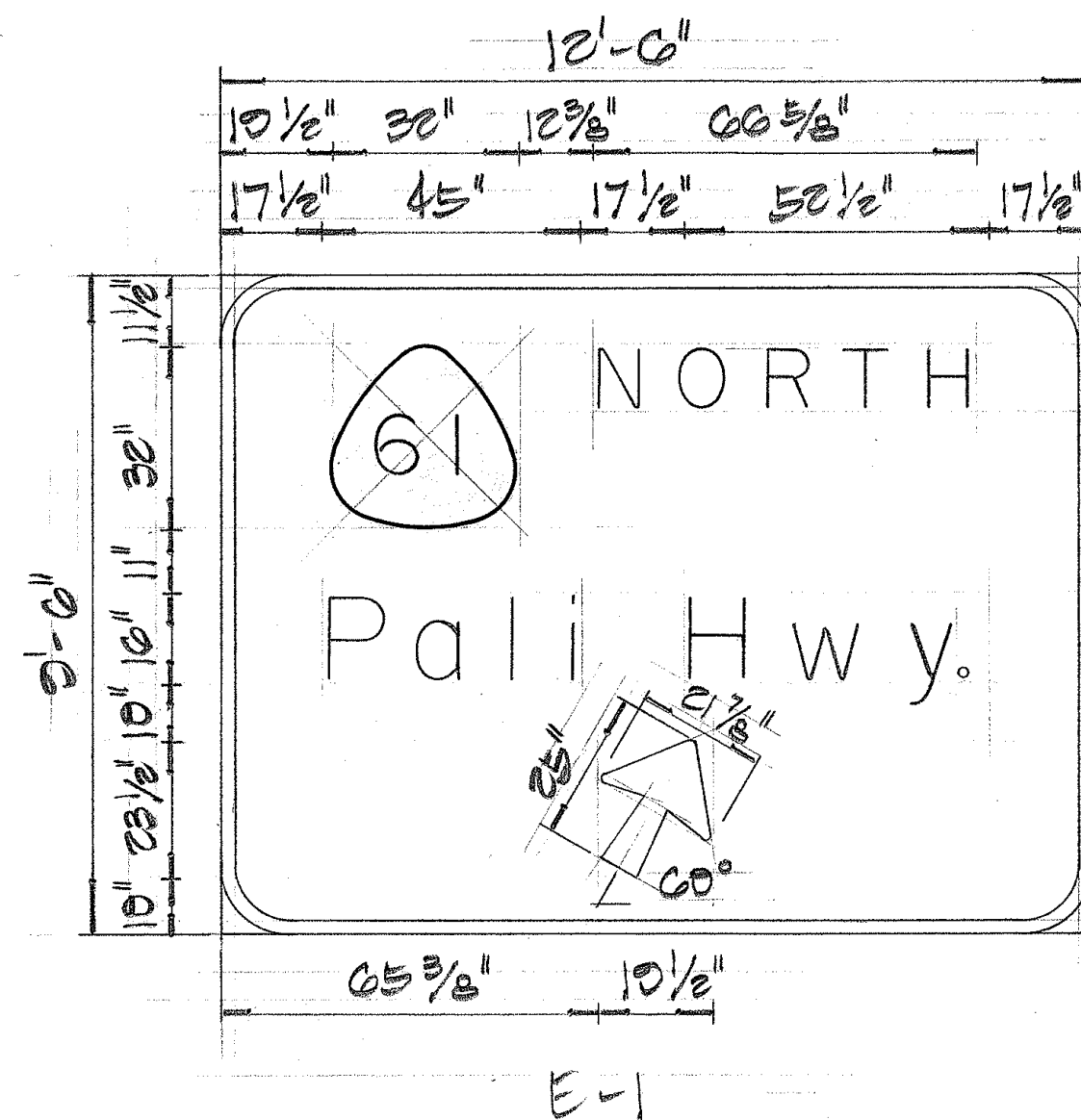
FEDERAL AID INTERSTATE PROJECT NO I-HI-1(31)21 UNIT 4

DATE: March 13, 1969

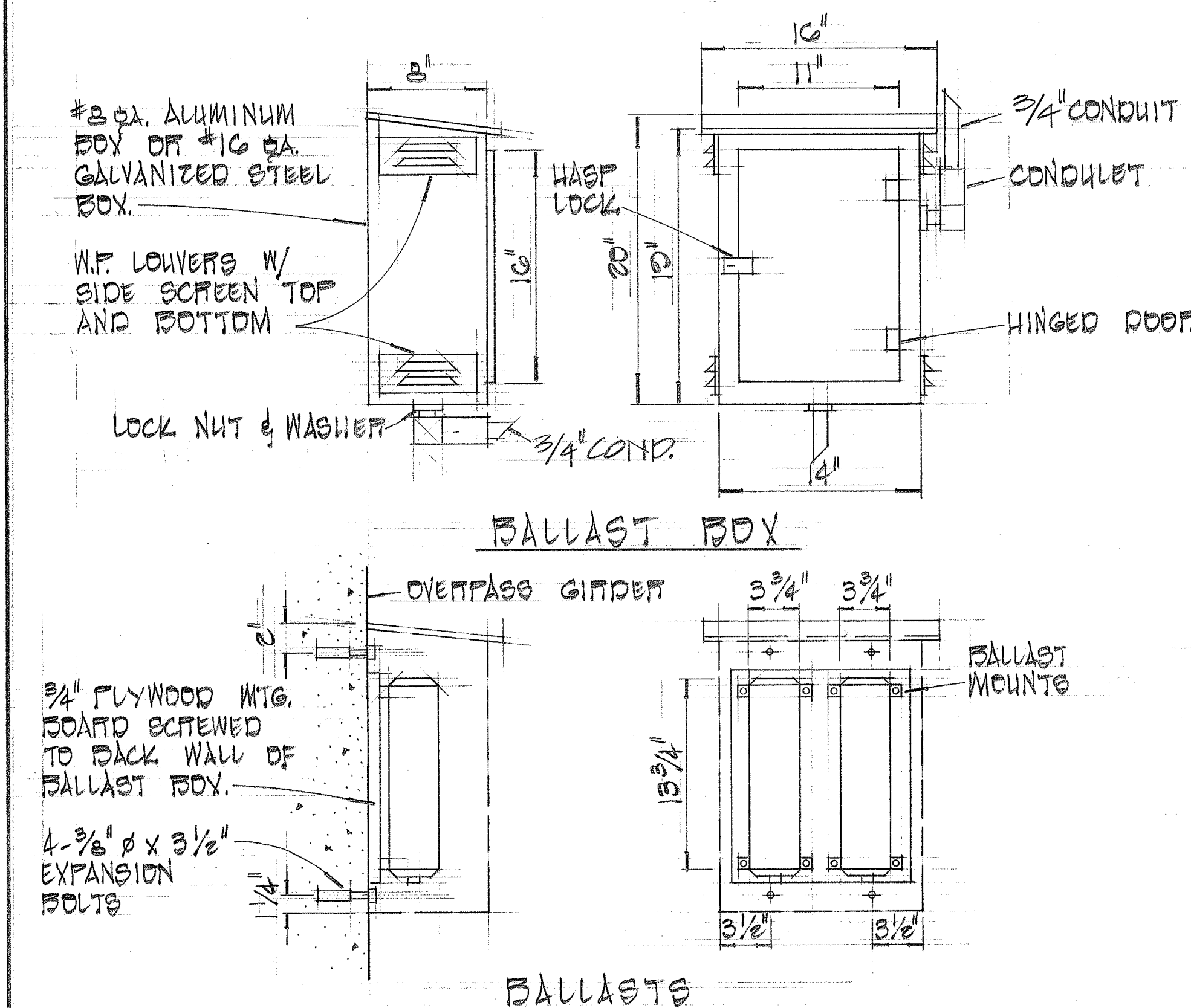
SHEET No. 9 OF 11 SHEETS

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

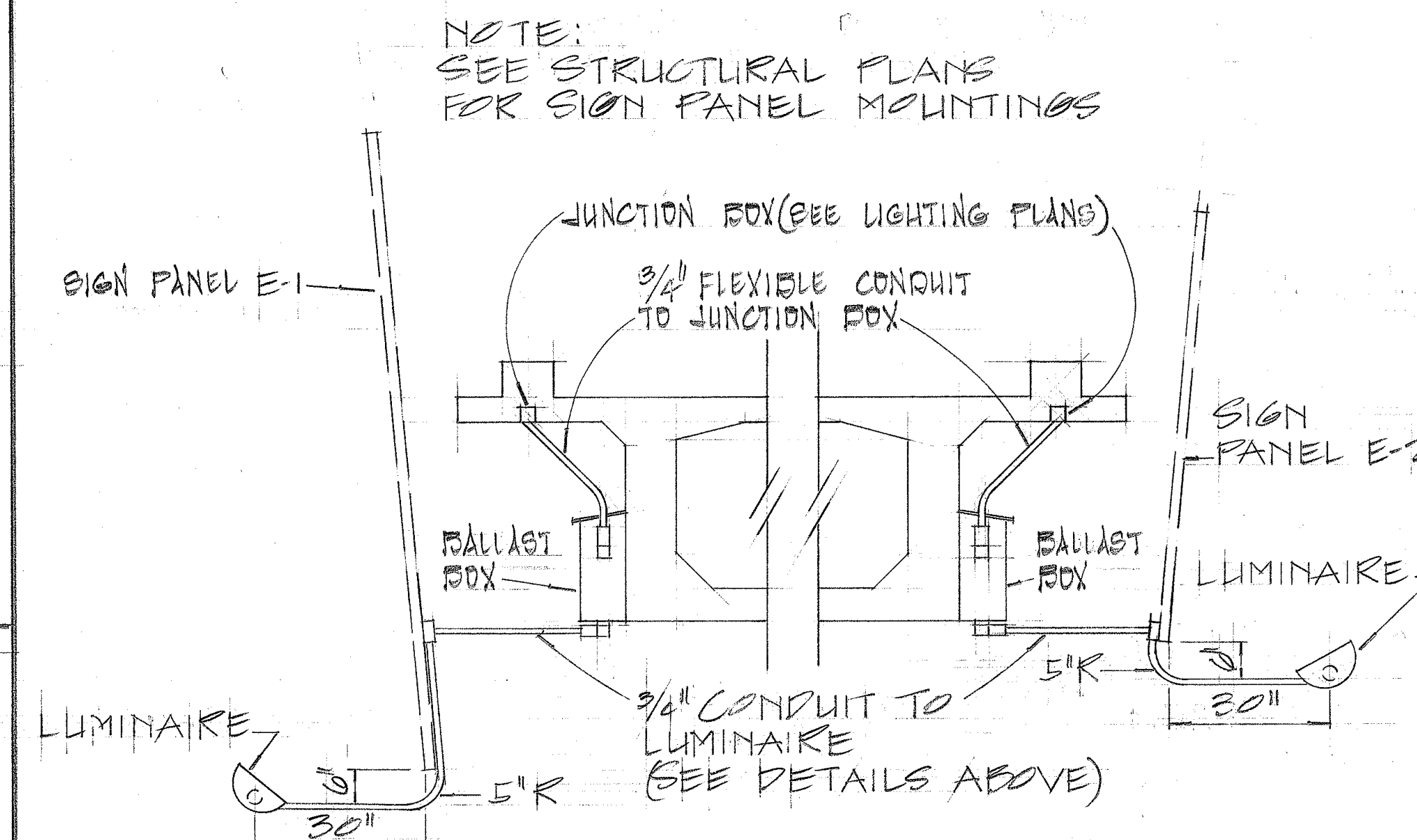
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HI-1(31) 21 Unit 4	1969	11	34



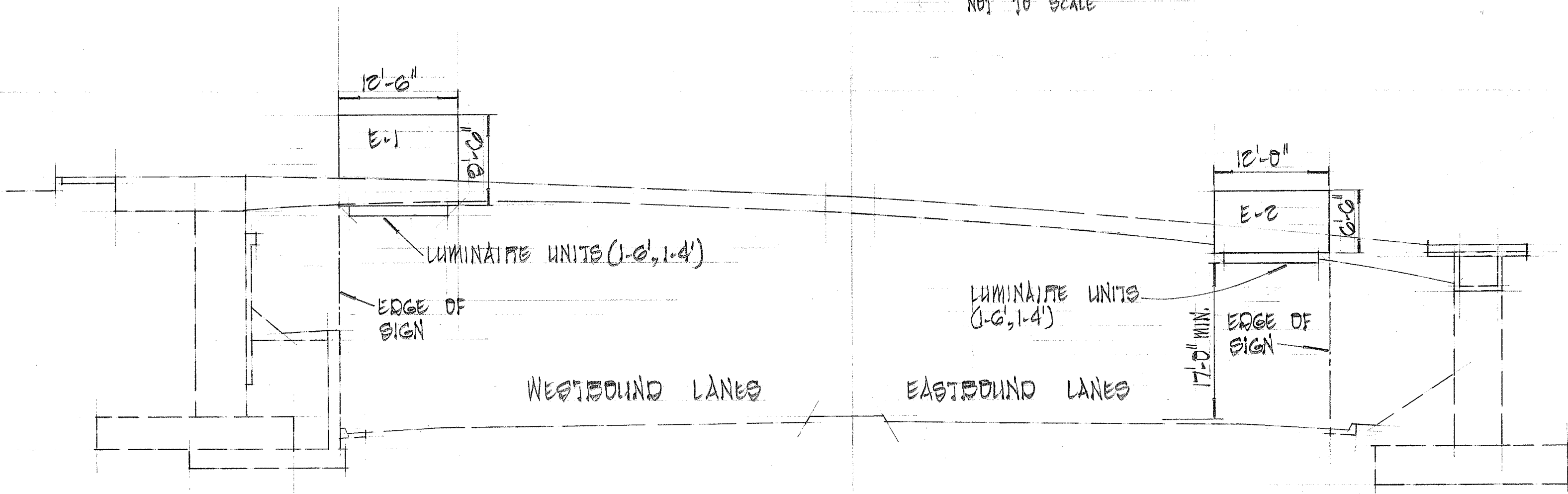
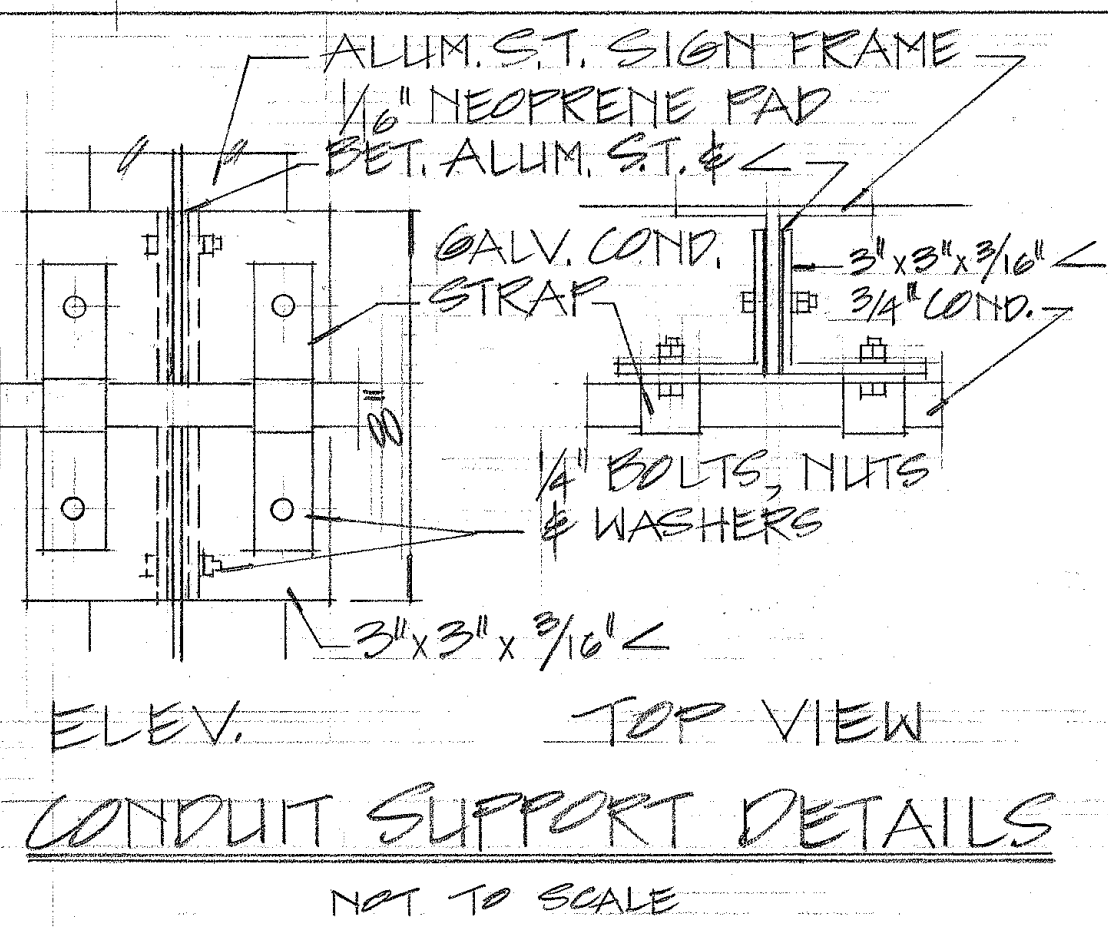
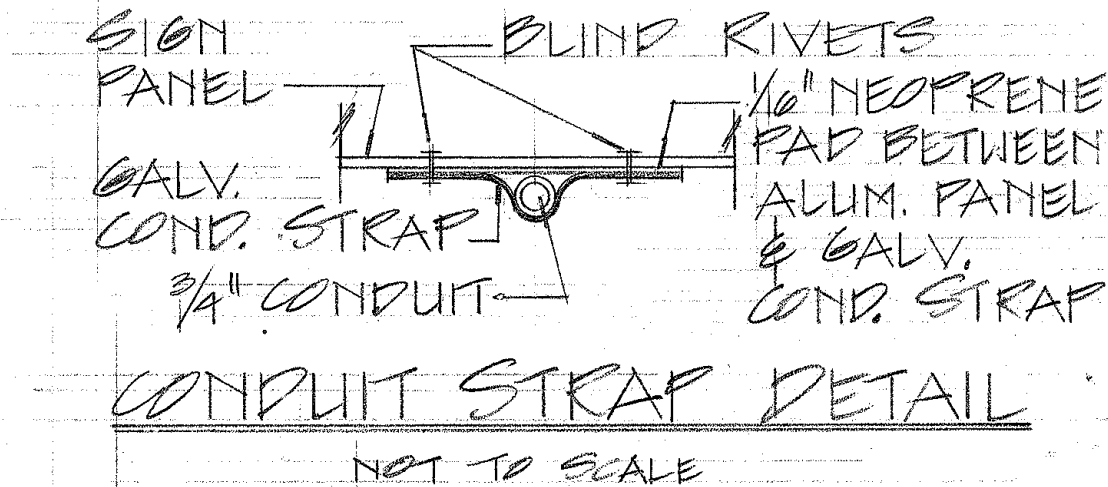
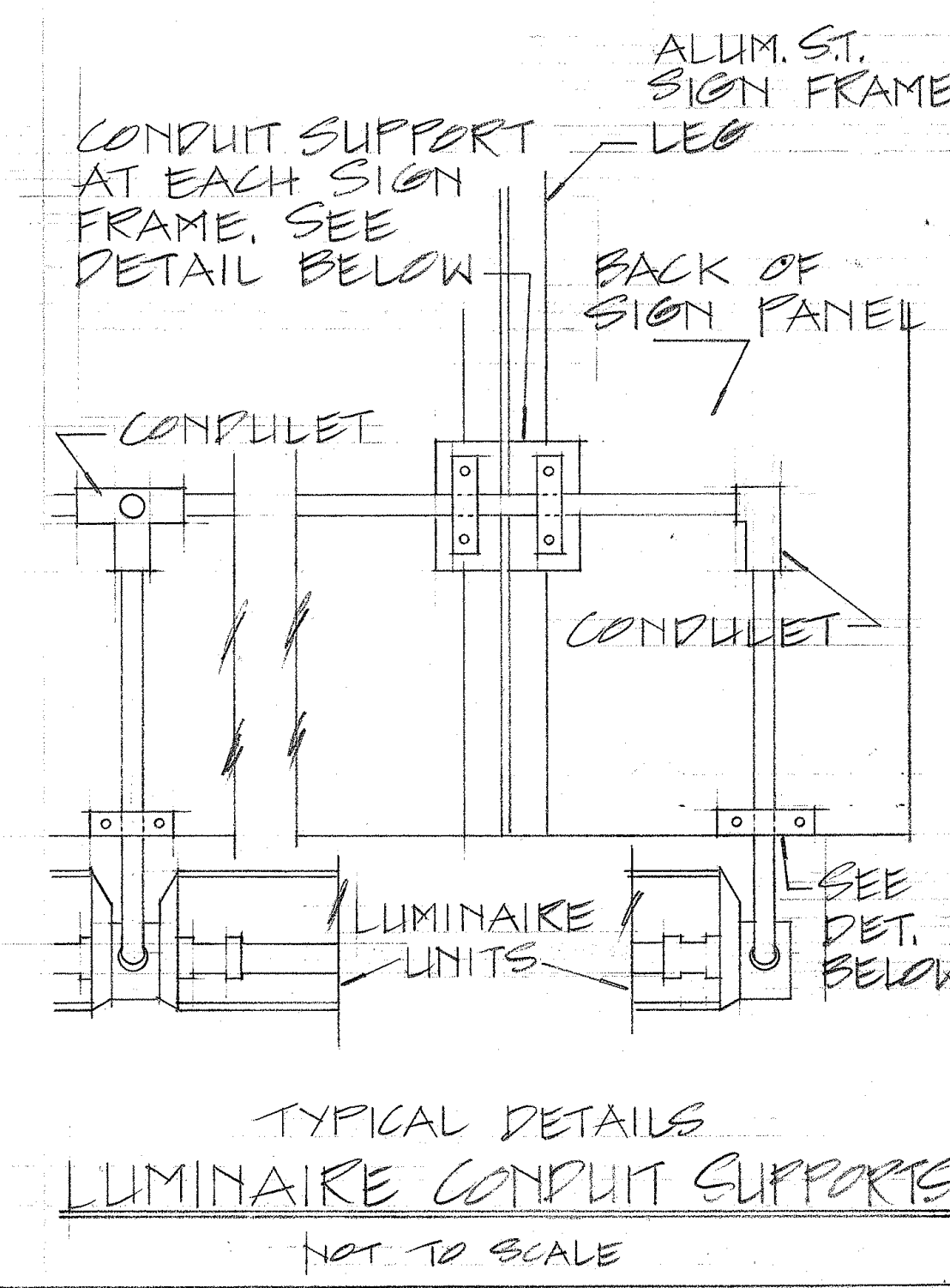
ARROW DETAIL
NOT TO SCALE



WEATHERPROOF BALLAST BOX
SCALE: 1 1/2" = 1'-0"



BALLAST BOX & LUMINAIRE LOCATION
NOT TO SCALE



LOCATION OF SIGNS E-1 & E-2
SCALE: 1" = 10'-0"

SIGN PANEL NOTES

- SIGN MESSAGE SHALL BE LETTERED IN UPPER & LOWER CASE ACCORDING TO "STANDARD ALPHABETS FOR HIGHWAY SIGNS," RPT. 1066. USE SERIES "E" MODIFIED LETTERS UNLESS OTHERWISE NOTED.
- LETTERS & ARROWS SHALL BE DEMOUNTABLE ALUMINUM CUT-OUTS WITH WHITE REFLECTIVE SHEETING OR CLEAR REFLEX REFLECTORS SET IN WHITE PORCELAIN ENAMELED ALUMINUM CUT-OUTS.
- ALL CUT-OUTS SHALL BE FASTENED ON SIGN PANEL WITH ALUMINUM BLIND RIVETS. SEE SPECIAL PROVISIONS.
- ROUTE MARKERS & ROADERS SHALL CONFORM WITH DETAILS AS SHOWN ON THE PLANS.
- BACKGROUND SHALL BE GREEN PORCELAIN ENAMEL.
- THE SIGN PANELS, SIGN SUPPORTS AND EXPRESSWAY SIGN LIGHTING SYSTEMS SHALL BE PAID FOR AS INDICATED IN THE PROPOSAL SCHEDULE, PAYMENT FOR WHICH SHALL BE FULL COMPENSATION FOR FURNISHING AND INSTALLING ALL MATERIALS & FOR ALL EQUIP., TOOLS, LABOR, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SHOWN.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

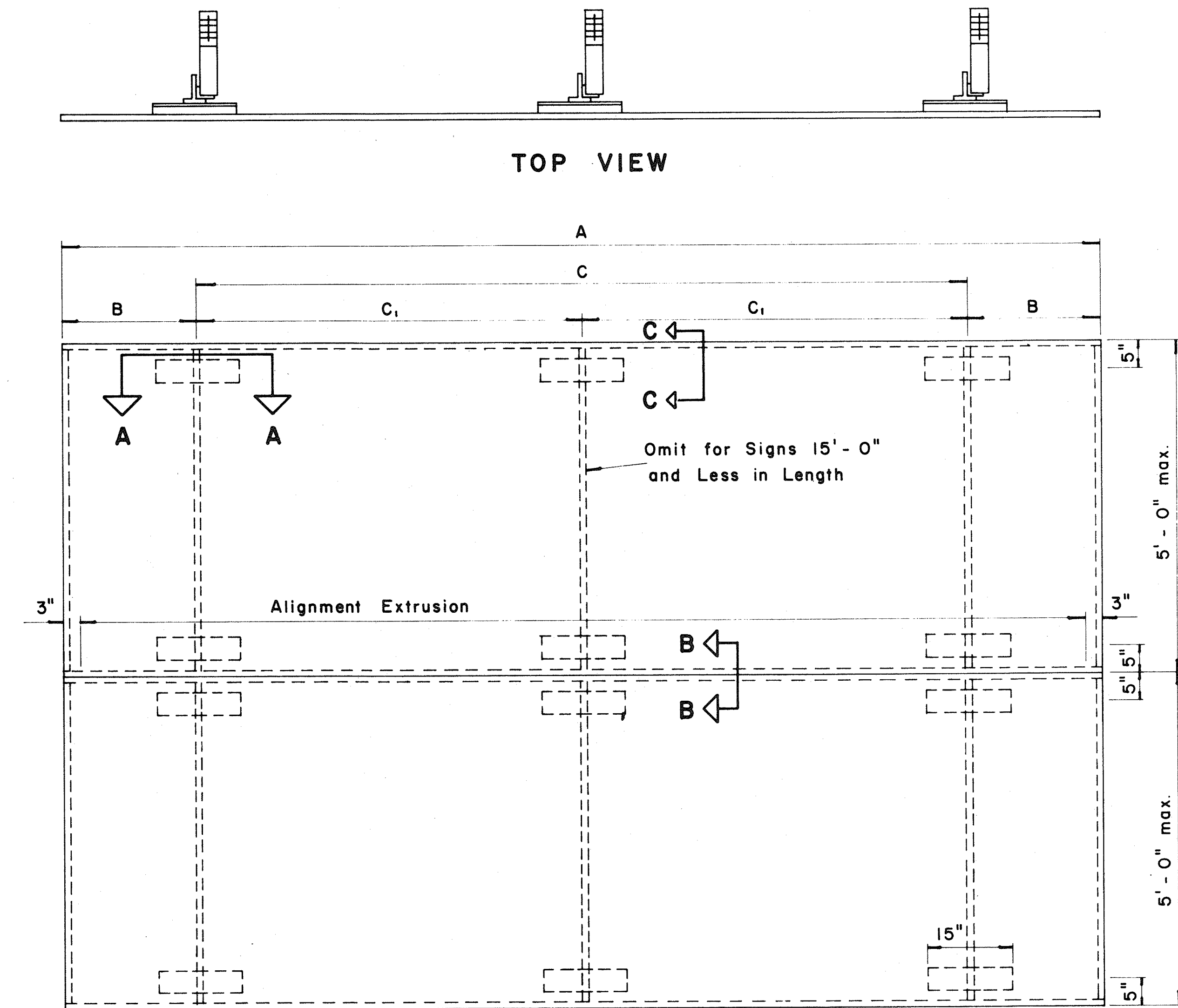
EXPRESSWAY SIGNS

PROJ. No. - HI-1(31) 21, UNIT 4
SCALE: AS SHOWN
FEB 1969
SHEET No. 10 OF 11 SHEETS

DATE	.....
SURVEY PLOTTED BY	.....
DRAWN BY	.....
TRACED BY	.....
NOTED BY	.....
CHECKED BY	.....
ORIGINAL PLAN	.....
NOTE BOOK	.....

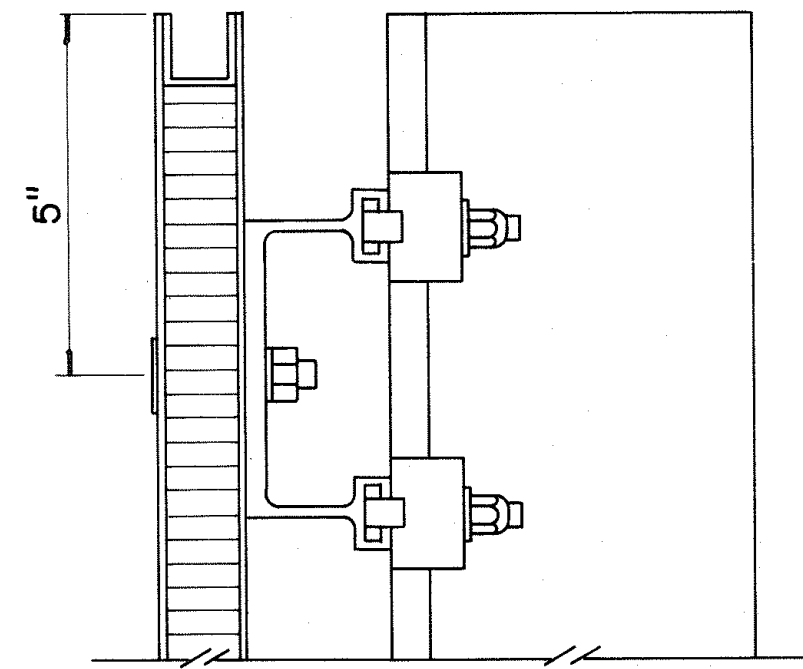
(OVERHEAD SIGNS)
SUPPORT SPACING TABLE

PANEL THICK.	LENGTH OF SIGN A	NO. OF SUPPORTS	OVERHANG B	SUPPORT SPACING C or C ₁
1"	6'-0"	2	12"	48"
1"	6'-6"	2	15"	48"
1"	7'-0"	2	15"	54"
1"	7'-6"	2	18"	54"
1"	8'-0"	2	18"	60"
1"	8'-6"	2	20"	62"
1"	9'-0"	2	22"	64"
1"	9'-6"	2	23"	68"
1"	10'-0"	2	24"	72"
1"	10'-6"	2	24"	78"
1"	11'-0"	2	24"	84"
1"	11'-6"	2	27"	84"
1"	12'-0"	2	30"	84"
1"	12'-6"	2	30"	90"
1"	13'-0"	2	30"	96"
1"	13'-6"	2	30"	102"
1"	14'-0"	2	30"	108"
1"	14'-6"	2	36"	102"
1"	15'-0"	2	36"	108"
1"	15'-6"	3	24"	69"
1"	16'-0"	3	24"	72"
1"	16'-6"	3	24"	75"
1"	17'-0"	3	24"	78"
1"	17'-6"	3	24"	81"
1"	18'-0"	3	24"	84"
1"	18'-6"	3	27"	84"
1"	19'-0"	3	27"	87"
1"	19'-6"	3	27"	90"
1"	20'-0"	3	30"	90"
1"	20'-6"	3	30"	93"
1"	21'-0"	3	30"	96"
1"	21'-6"	3	33"	96"
1"	22'-0"	3	36"	96"
1"	22'-6"	3	36"	99"
1"	23'-0"	3	36"	102"
1"	23'-6"	3	36"	105"
1"	24'-0"	3	36"	108"



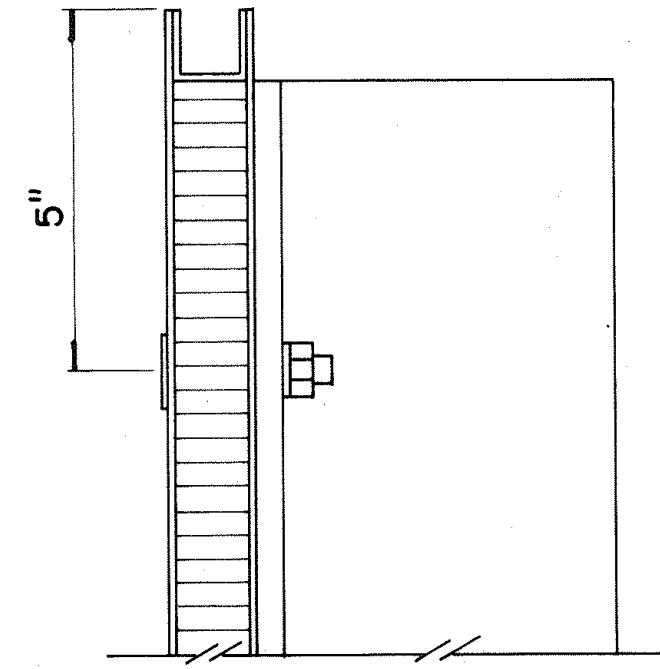
TYPICAL SIGN ASSEMBLY

Scale: $\frac{3}{4}" = 1'-0"$



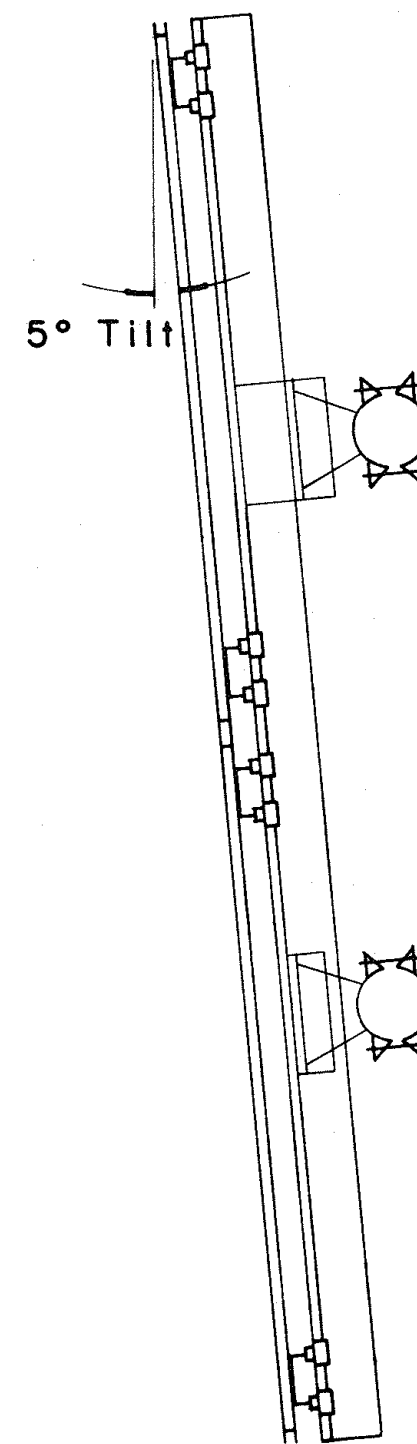
SECTION "C-C"

Scale: $\frac{3}{8}" = 1"$

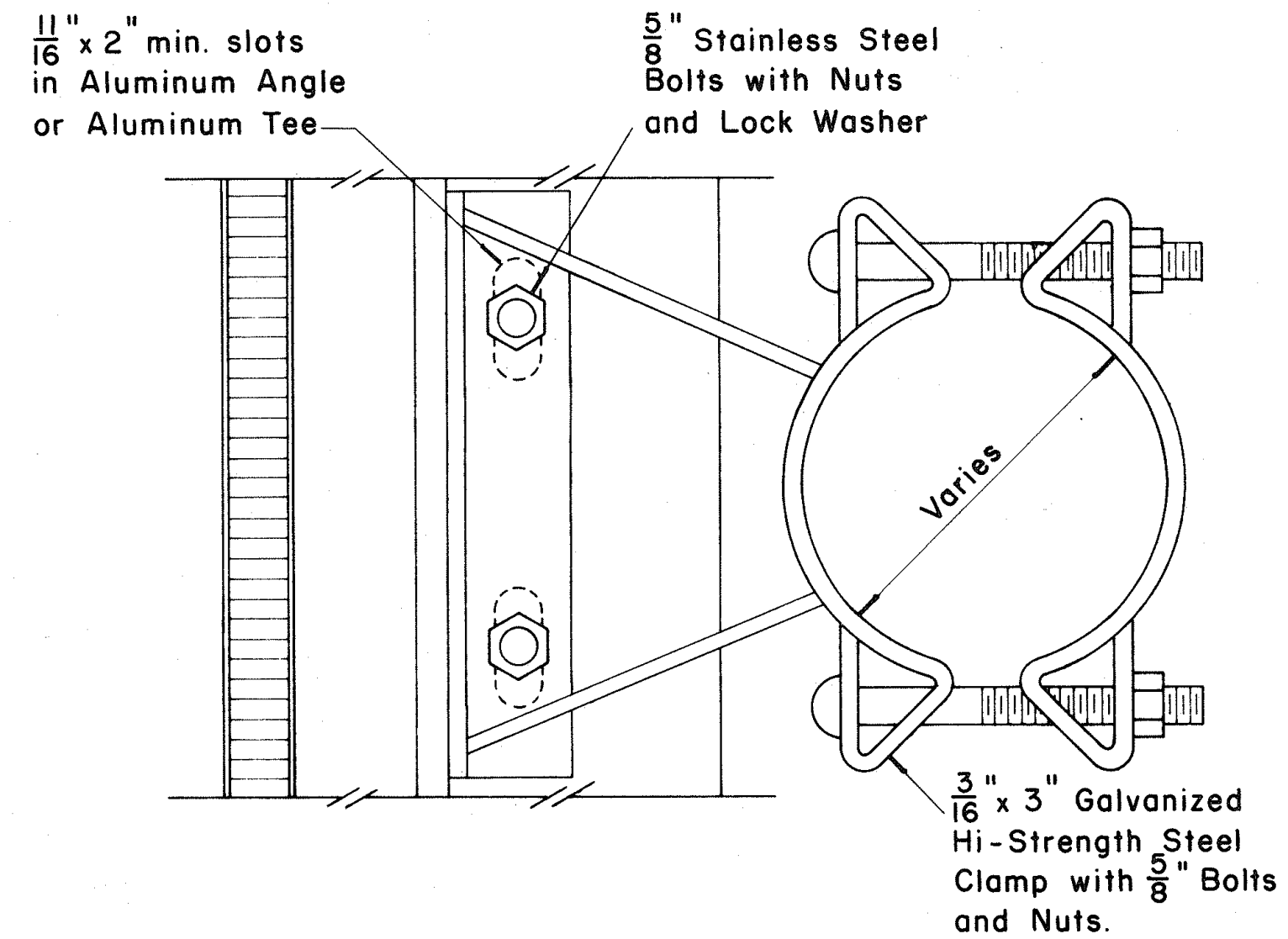


SECTION "C-C" (Alternate)

Scale: $\frac{3}{8}" = 1"$



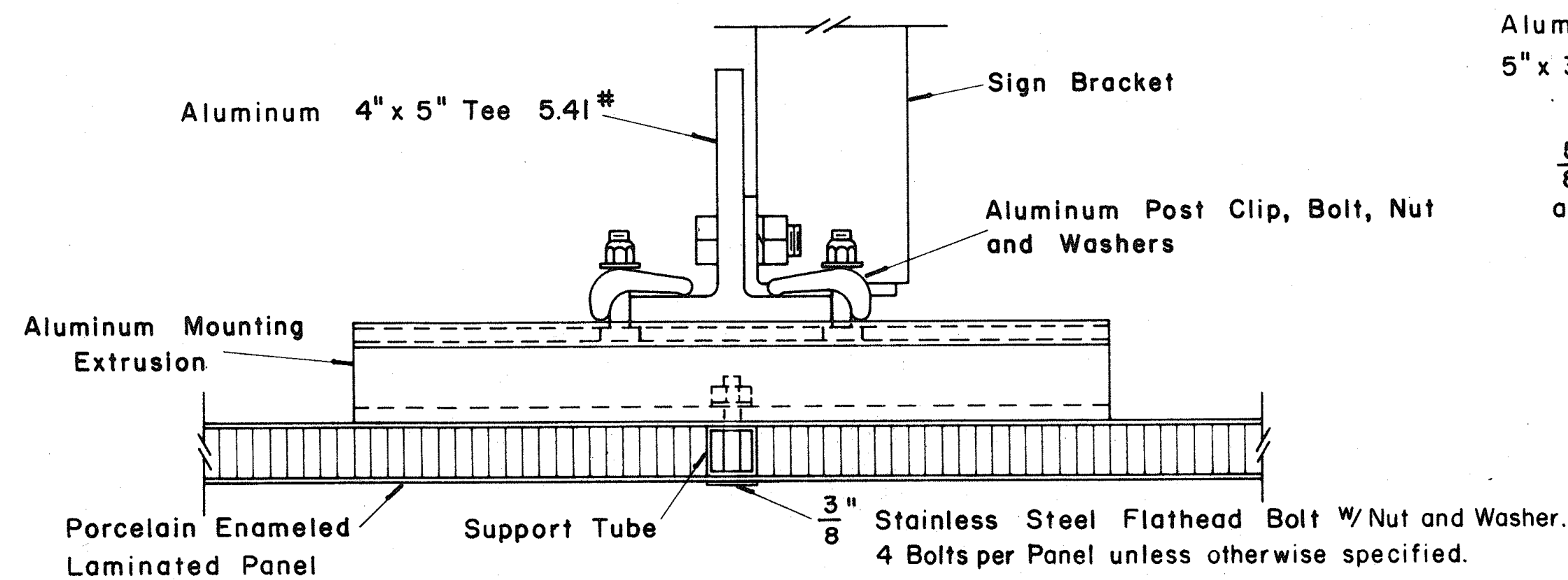
SIDE VIEW



SIGN BRACKET ASSEMBLY

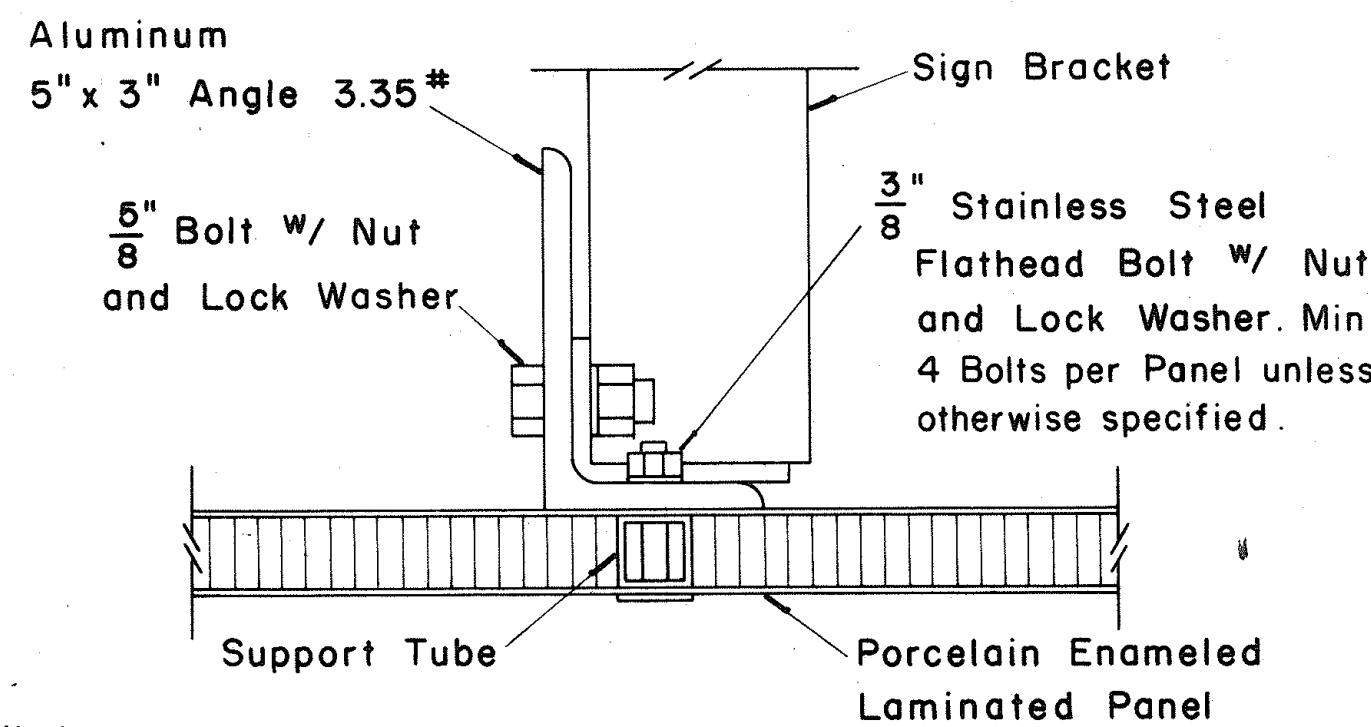
Scale: $\frac{3}{8}" = 1"$

NOTE: For additional details of Sign Bracket Assembly, see Standard Detail Sheet "Overhead Sign Supports."



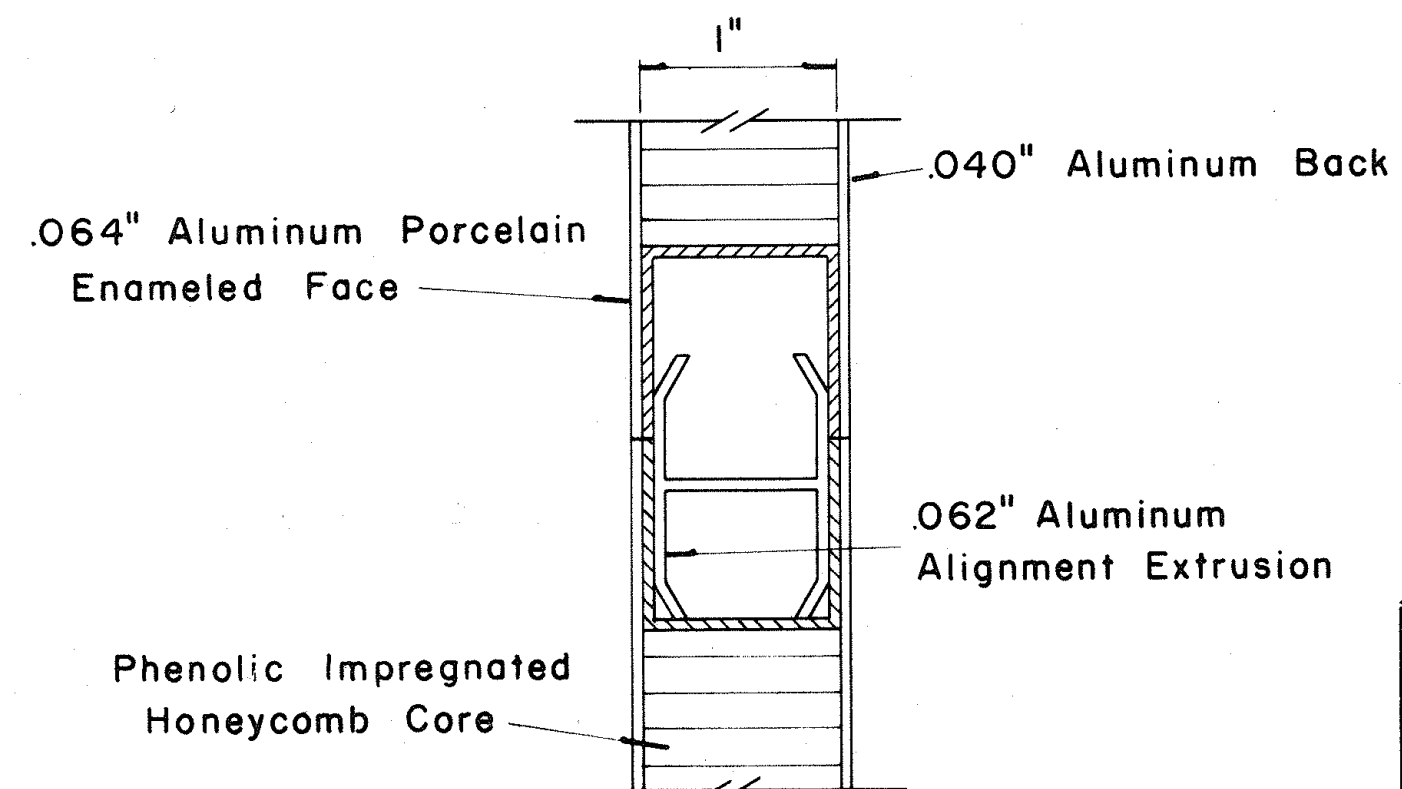
SECTION "A-A"

Scale: $\frac{3}{8}" = 1"$



SECTION "A-A" (Alternate)

Scale: $\frac{3}{8}" = 1"$



CLOSURE DETAIL
SECTION "B-B"

FULL SCALE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
LAMINATED ALUMINUM
SIGN PANELS
(OVERHEAD)

Scale: As Shown

SHEET No. 11 OF 11 SHEETS DT 205