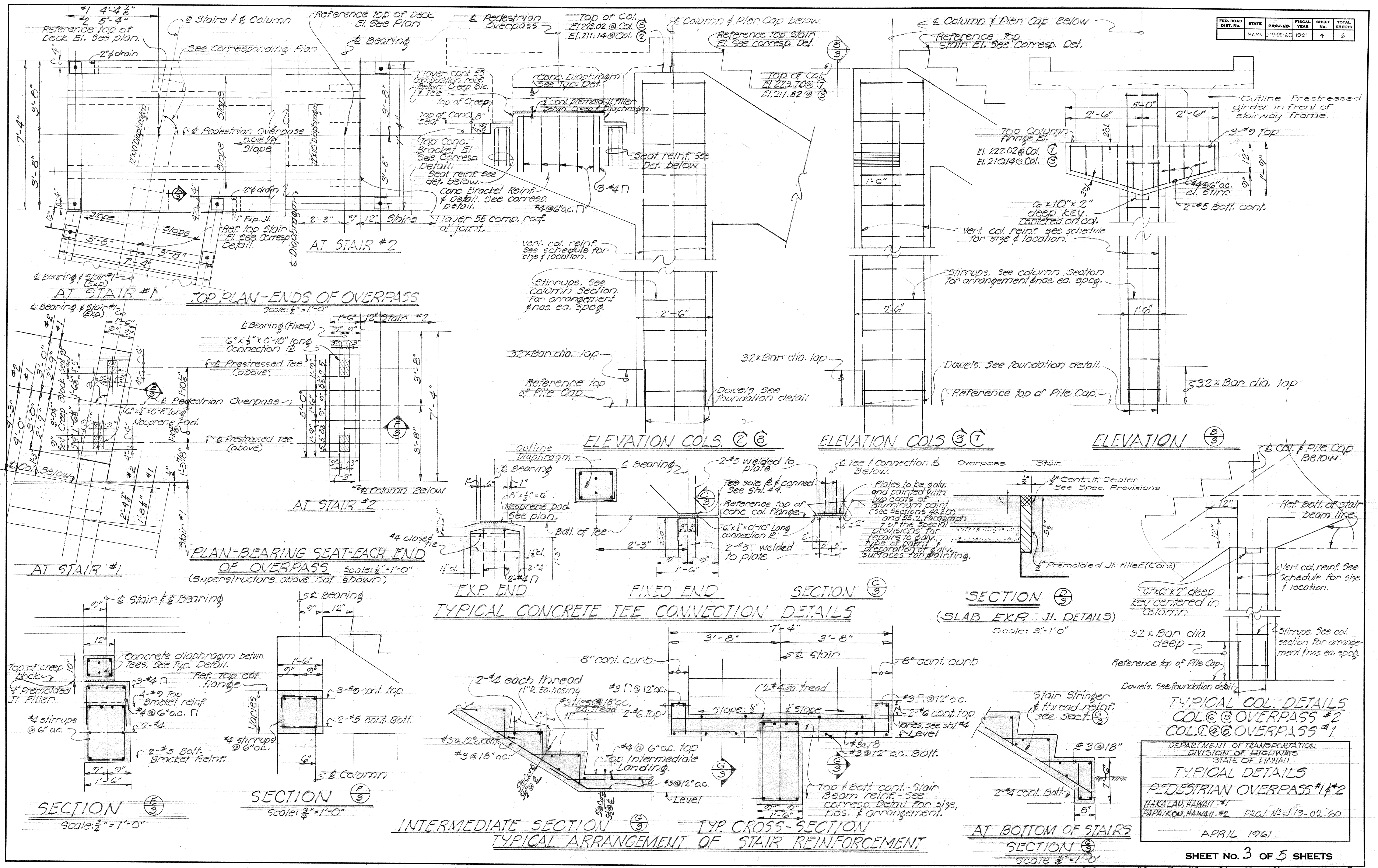
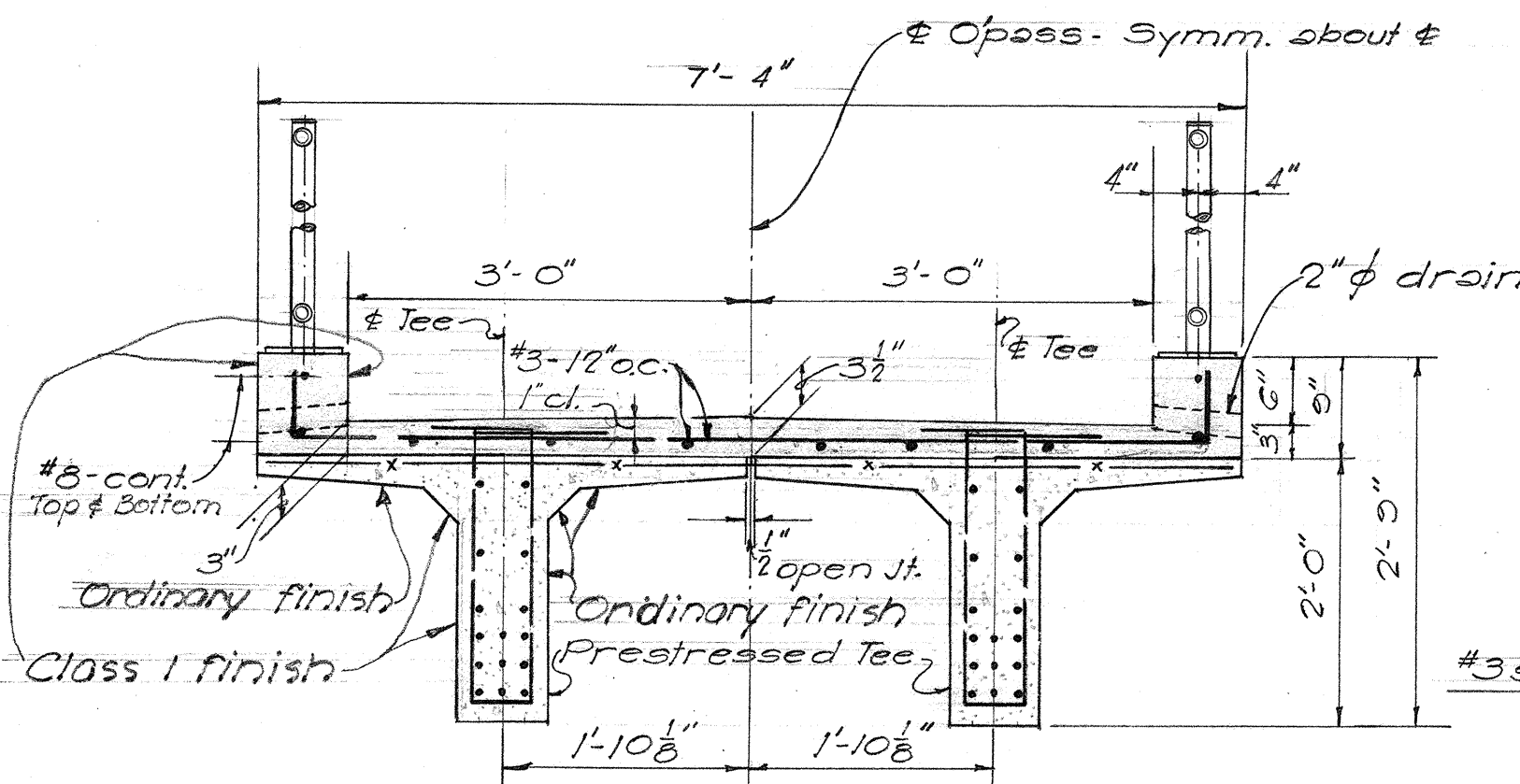


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	HAW.	J-19-02-60	1961	4	6

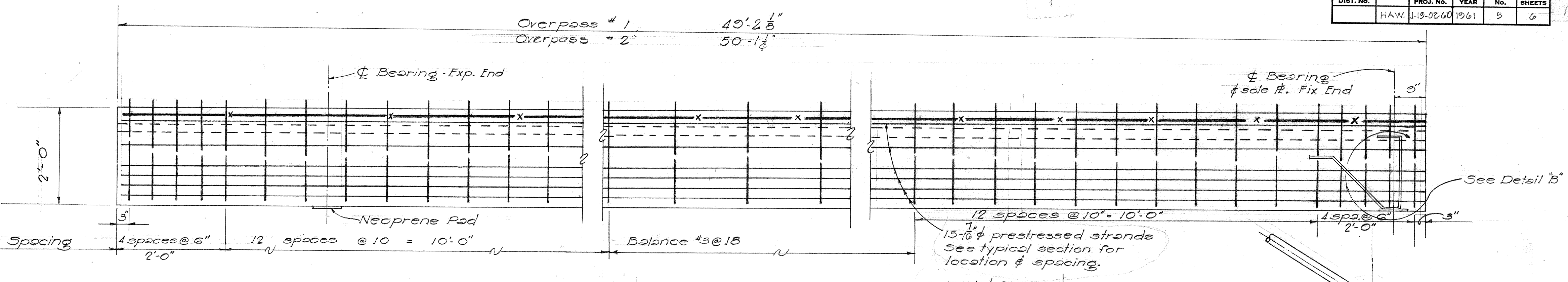


DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 STATE OF HAWAII
 TYPICAL DETAILS
 PEDESTRIAN OVERPASS #1 & #2
 HAKALA, HAWAII - #1
 PAPA'IKOO, HAWAII - #2
 PROJ. NO. J-19-02-60
 APRIL 1961

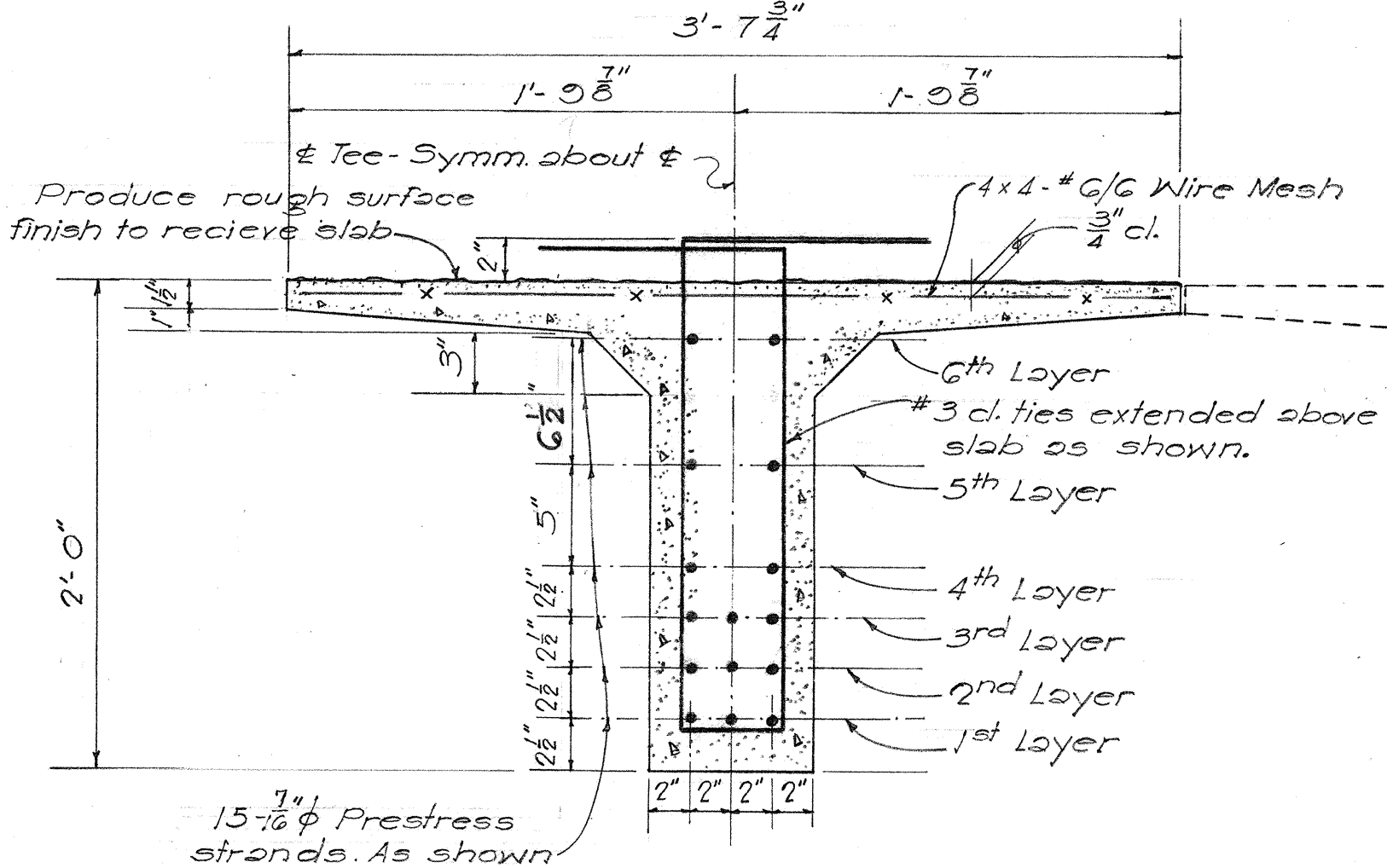
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	HAW.	J-19-02-60	1961	5	6



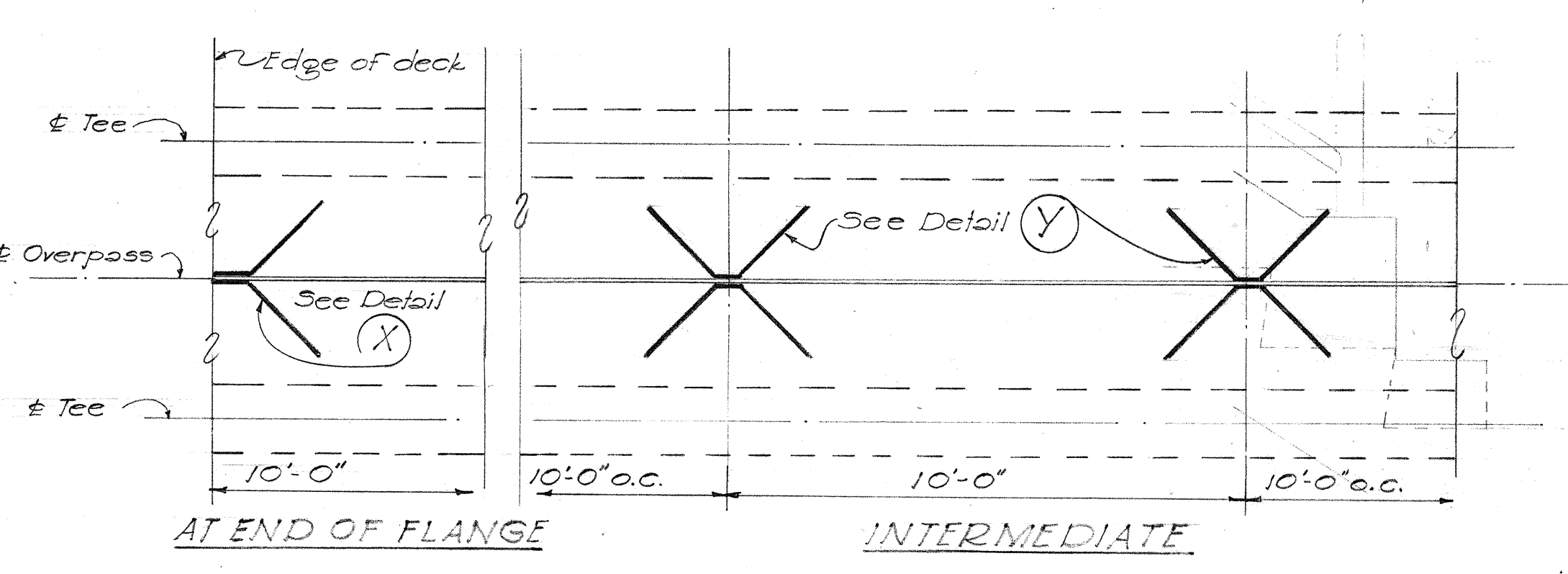
NORMAL SECTION THRU OVERPASS
Scale: $\frac{3}{4}$ " = 1'-0"



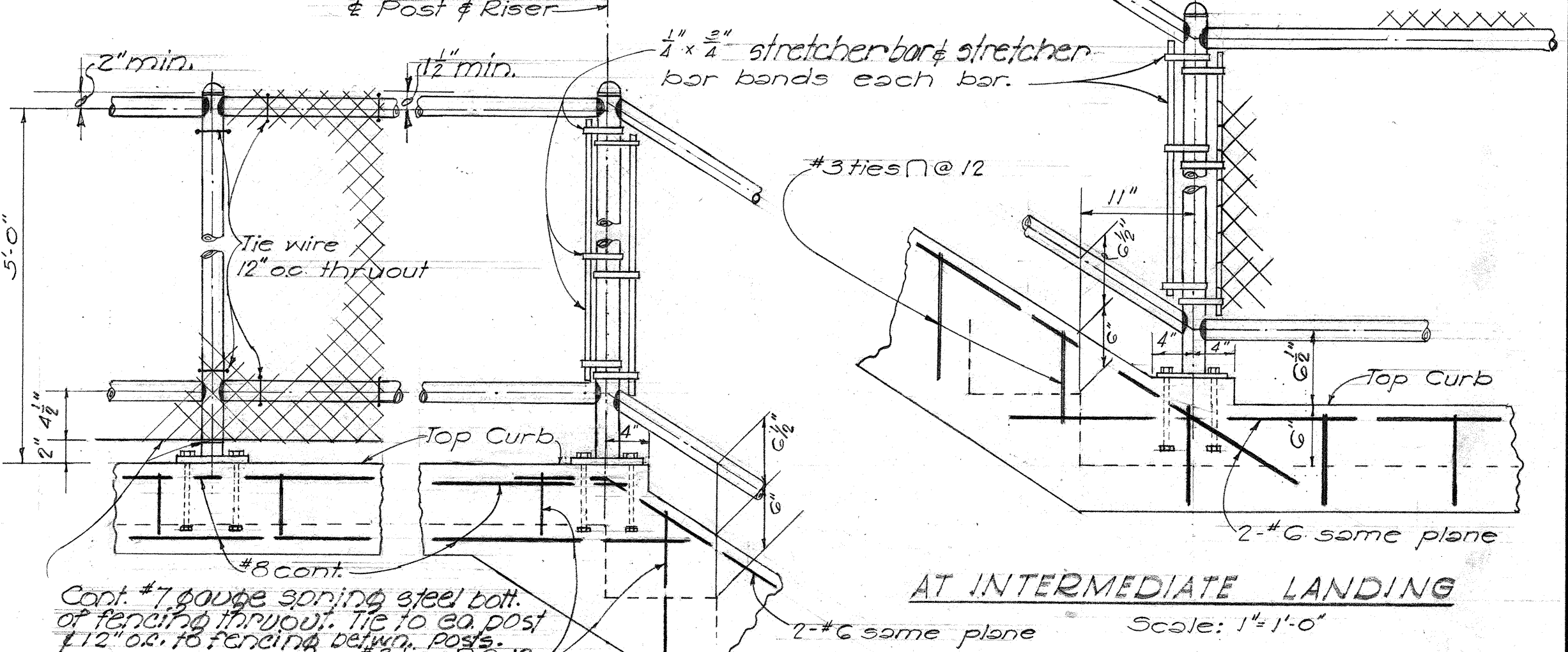
TYPICAL PRESTRESSED TEE DETAIL
Scale: $\frac{3}{4}$ " = 1'-0"



TYPICAL SECTION THRU PRESTRESSED TEE
Scale: $\frac{1}{2}$ " = 1'-0"

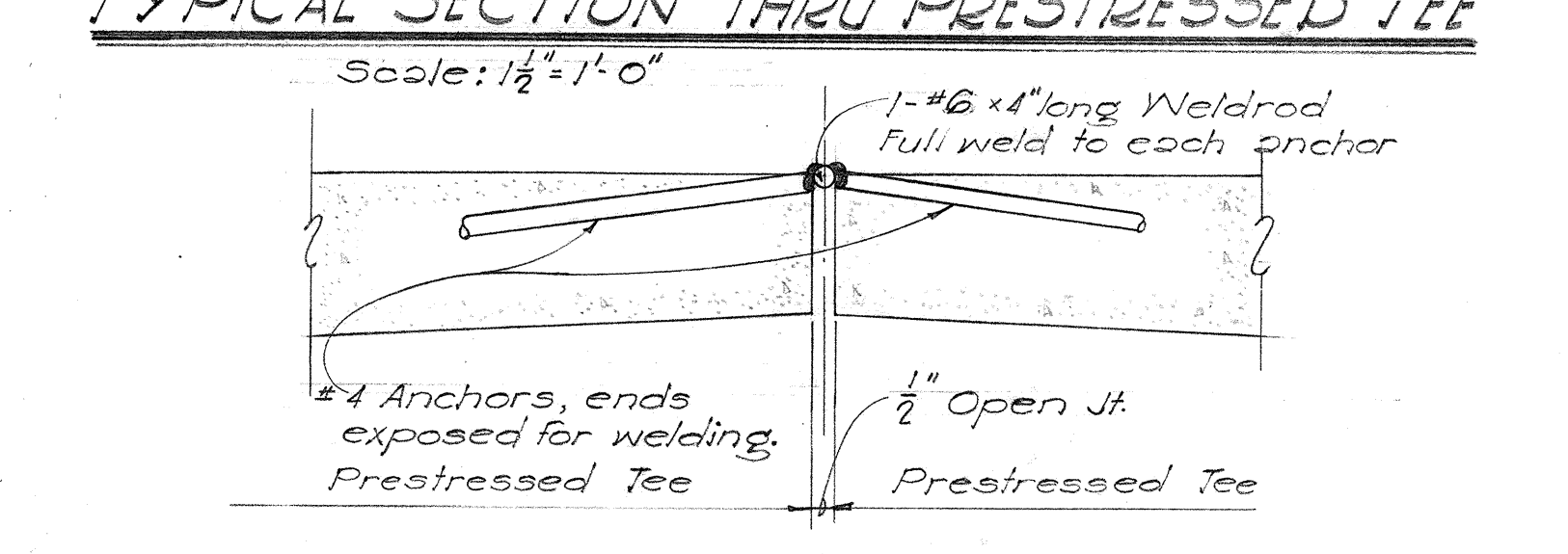


PLAN LOCATION TYPICAL PRESTRESSED TEE FLANGE CONNECTOR

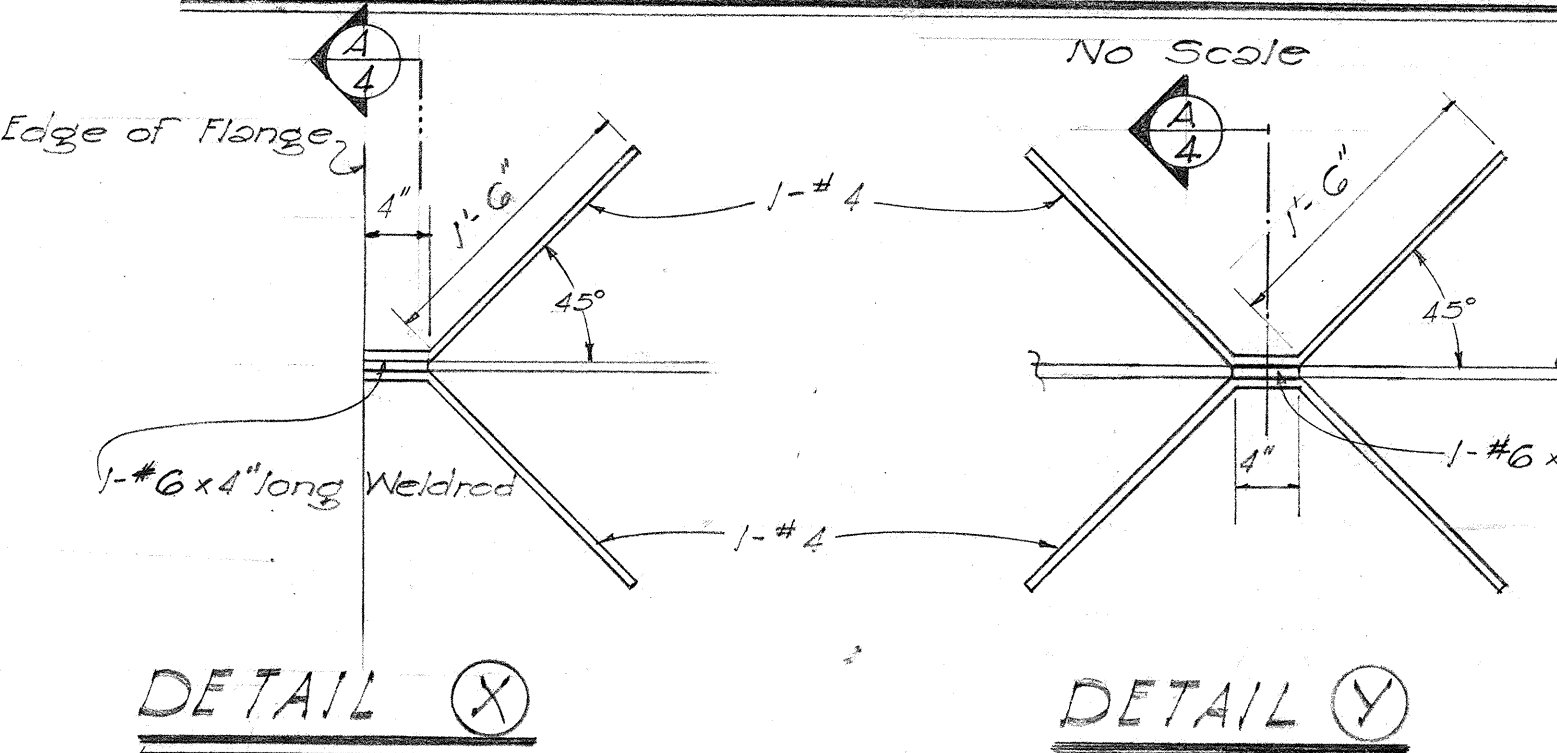


TYPICAL ALONG OVERPASS
Scale: $\frac{1}{2}$ " = 1'-0"

FIXED END
Scale: $\frac{1}{2}$ " = 1'-0"

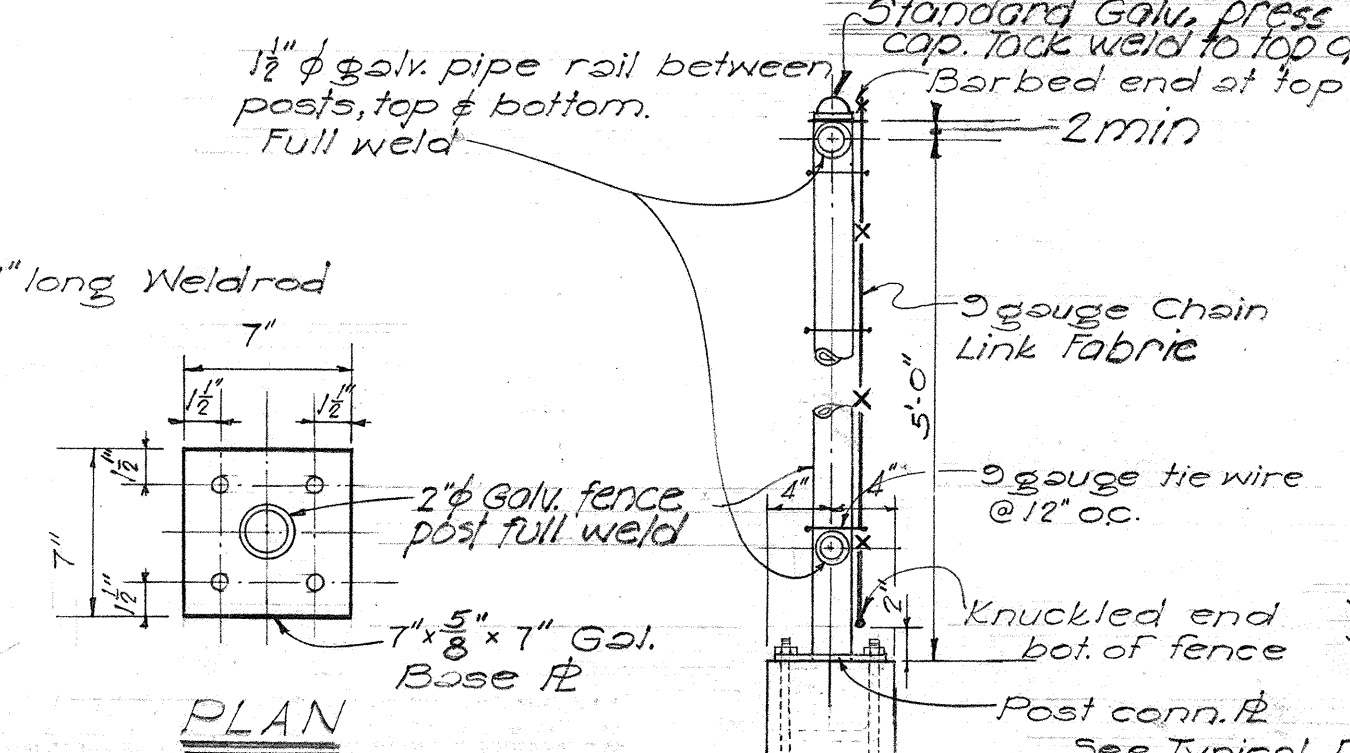


SECTION A
Scale: $\frac{3}{4}$ " = 1'-0"

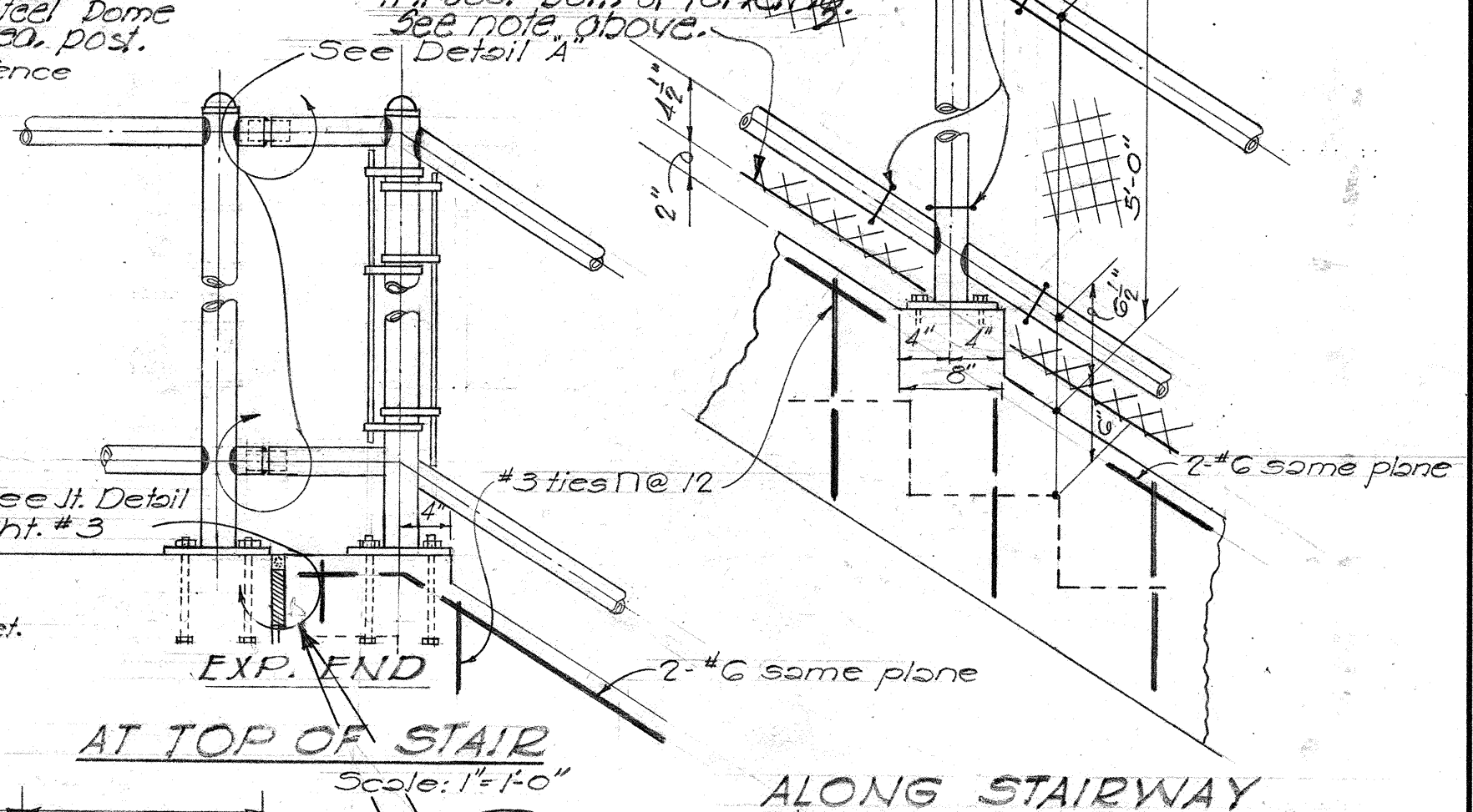


DETAIL X
Scale: $\frac{1}{2}$ " = 1'-0"

DETAIL Y
Scale: $\frac{1}{2}$ " = 1'-0"

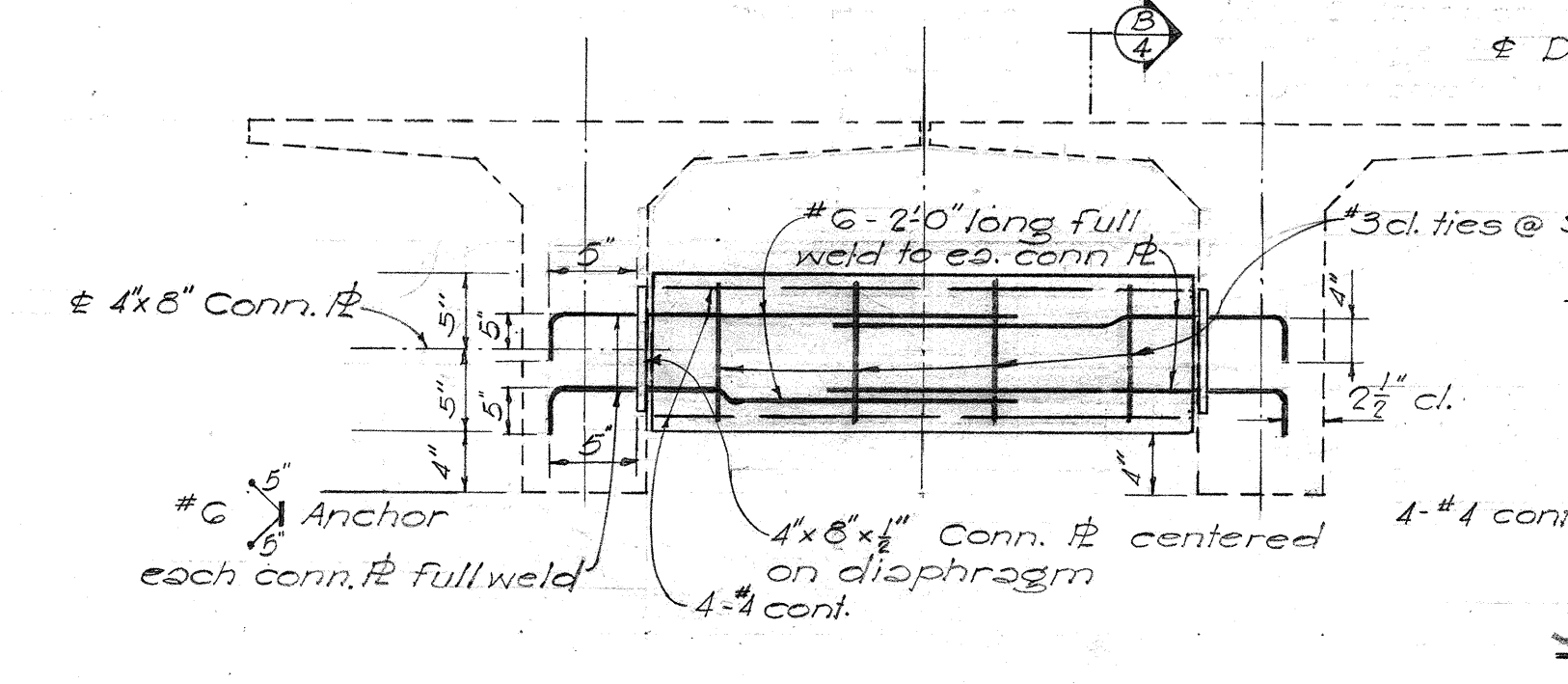


TYPICAL SECTION THRU FENCING
Scale: $\frac{1}{2}$ " = 1'-0"

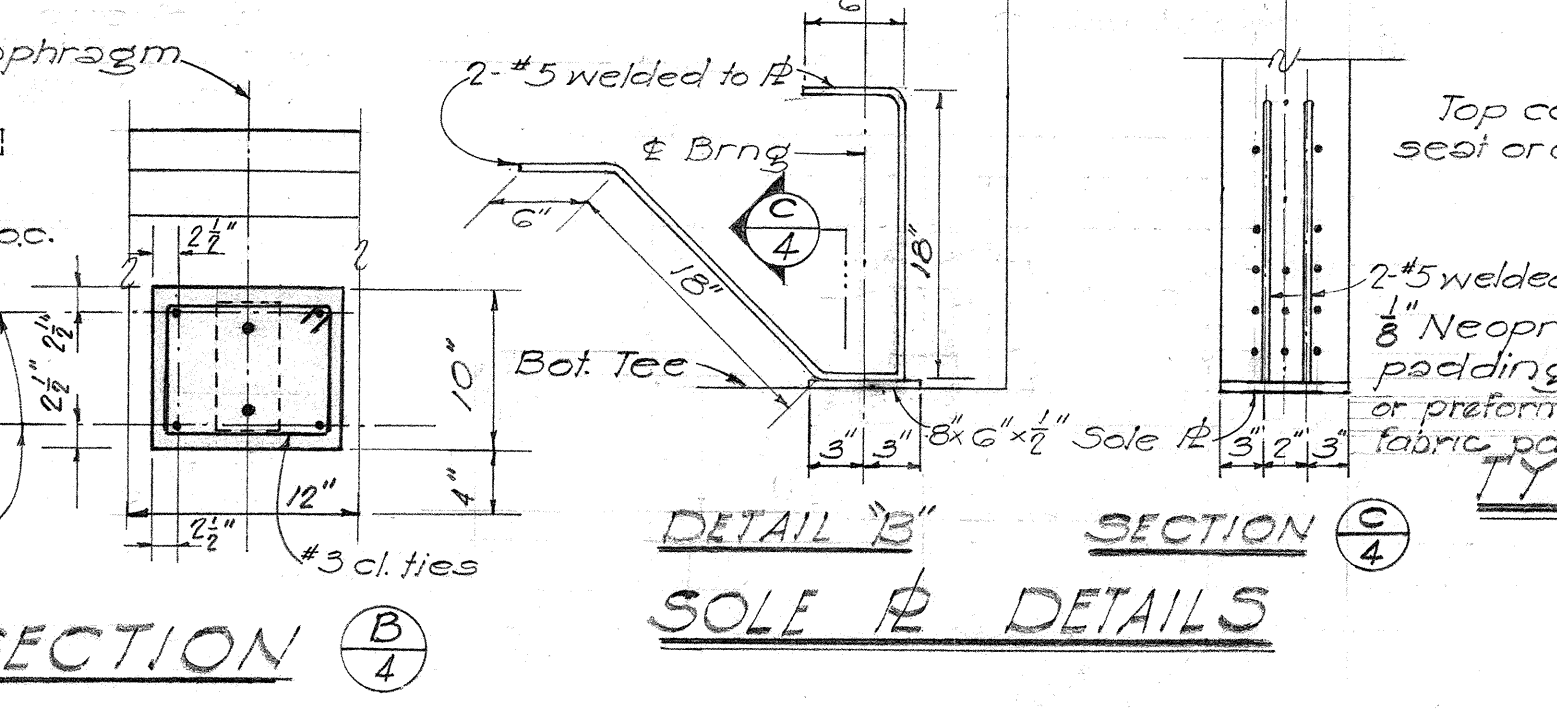


AT TOP OF STAIR
Scale: $\frac{1}{2}$ " = 1'-0"

ALONG STAIRWAY
Scale: $\frac{1}{2}$ " = 1'-0"

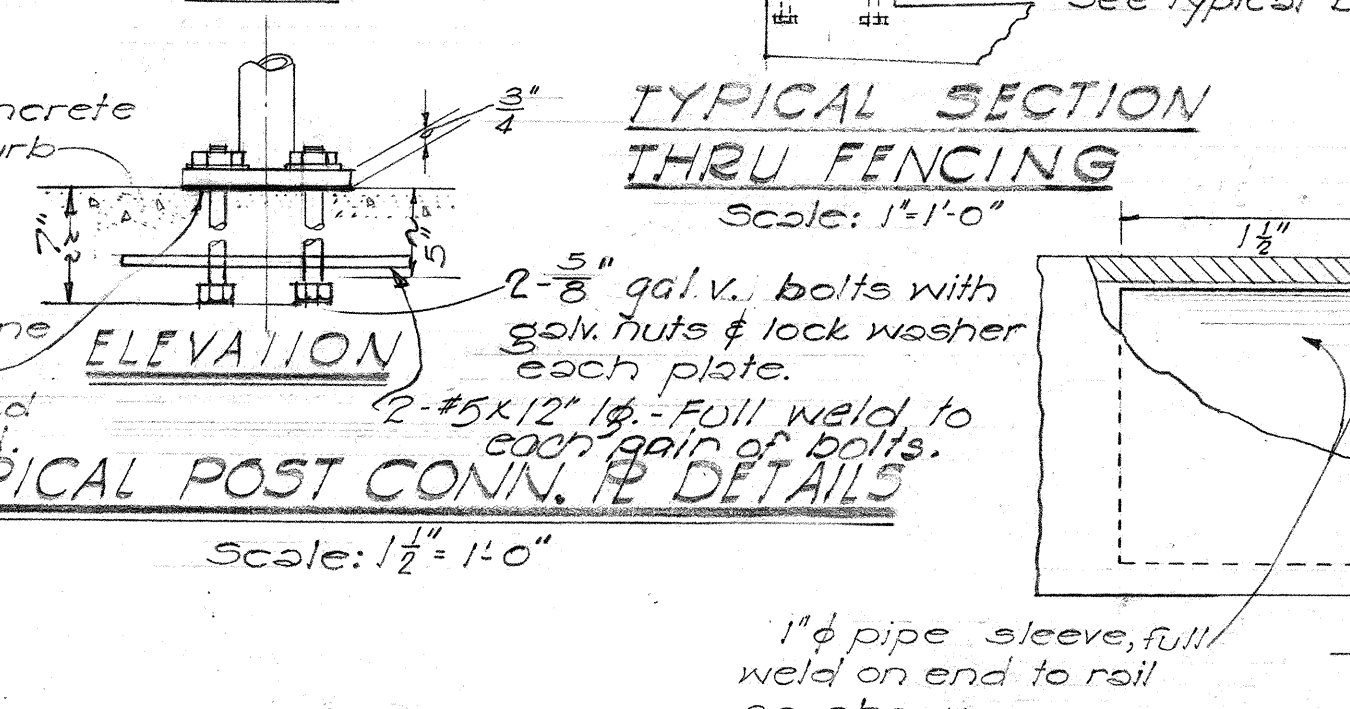


TYPICAL DIAPHRAGM DETAIL
Scale: $\frac{1}{2}$ " = 1'-0"

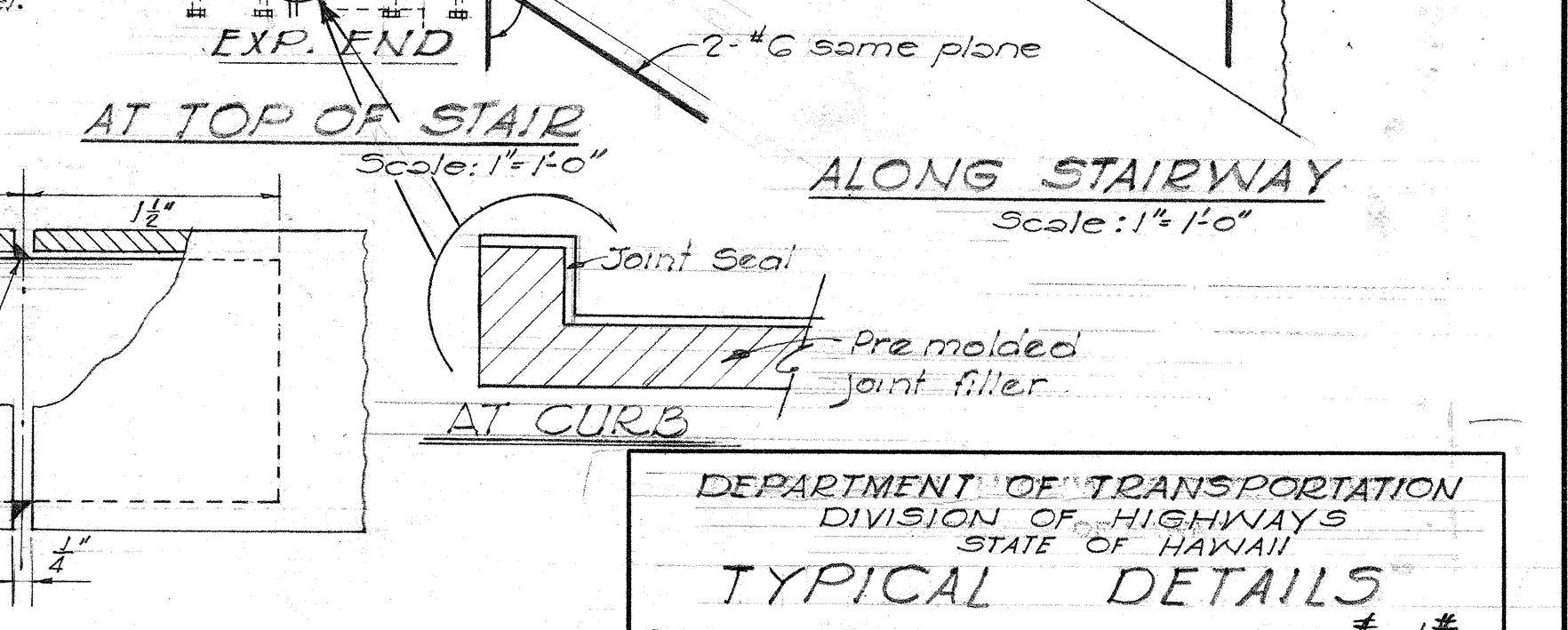


SECTION B
Scale: $\frac{1}{2}$ " = 1'-0"

SECTION C
Scale: $\frac{1}{2}$ " = 1'-0"



TYPICAL POST CONNECTION DETAILS
Scale: $\frac{1}{2}$ " = 1'-0"



AT CURB
Scale: $\frac{1}{2}$ " = 1'-0"

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

STATE OF HAWAII

TYPICAL DETAILS

PEDESTRIAN OVERCROSSING #1 & #2

HAKALAO, HAWAII - #1

PAPAIKOU, HAWAII - #2

J-19-02-60

APRIL 1961

Note:
All steel plates shall be structural carbon steel ASTM Designation A-7, Galvanized

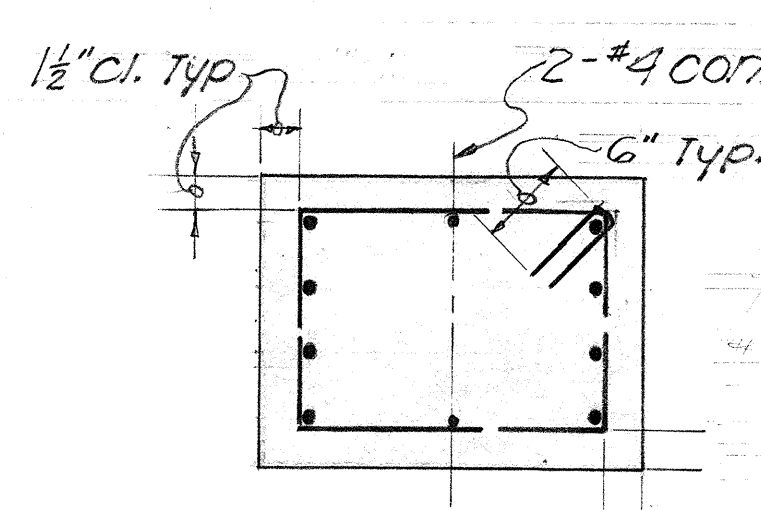
TYPICAL RAILING DETAILS & POST DETAILS
Scale: $\frac{1}{2}$ " = 1'-0"

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

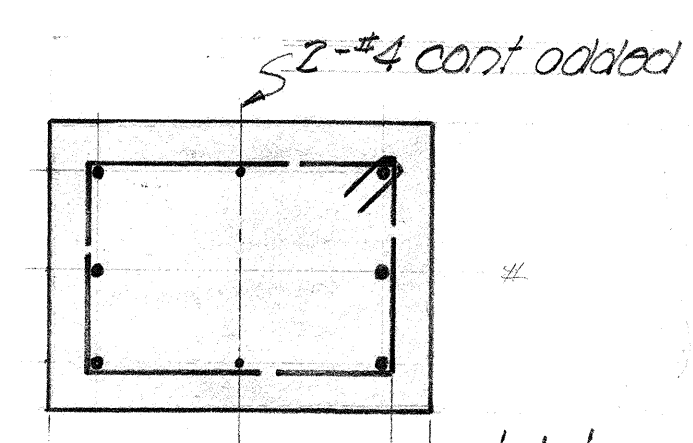
J00190260.5

COLUMN SCHEDULE									
Column Location No.	1	2	3	4	5	6	7	8	9
Top of Ftg. & Pile Cap	18"x18" 6-#9	18"x20" 8-#9	18"x20" 8-#9	18"x18" 6-#9	18"x18" 6-#9	18"x18" 6-#9	18"x20" 8-#9	18"x20" 8-#9	18"x18" 6-#9
Dowels	6-#9	8-#9	6-#9	6-#9	6-#9	6-#9	8-#9	8-#9	6-#9
Ftg. & Pile Cap Type	P4	P3	P4	P2	P4	S-1	S-2	P3	P5

PILE CAP SCHEDULE			
Pile No.	Bottom Reinforcement L.W. S.W.	Structure	
P2	6-#5 4-#5	Structure	
P3	3 bands 6-#5	Structure	
P4	10-#5 10-#5	Structure	
P5	9-#6 9-#6	Structure	

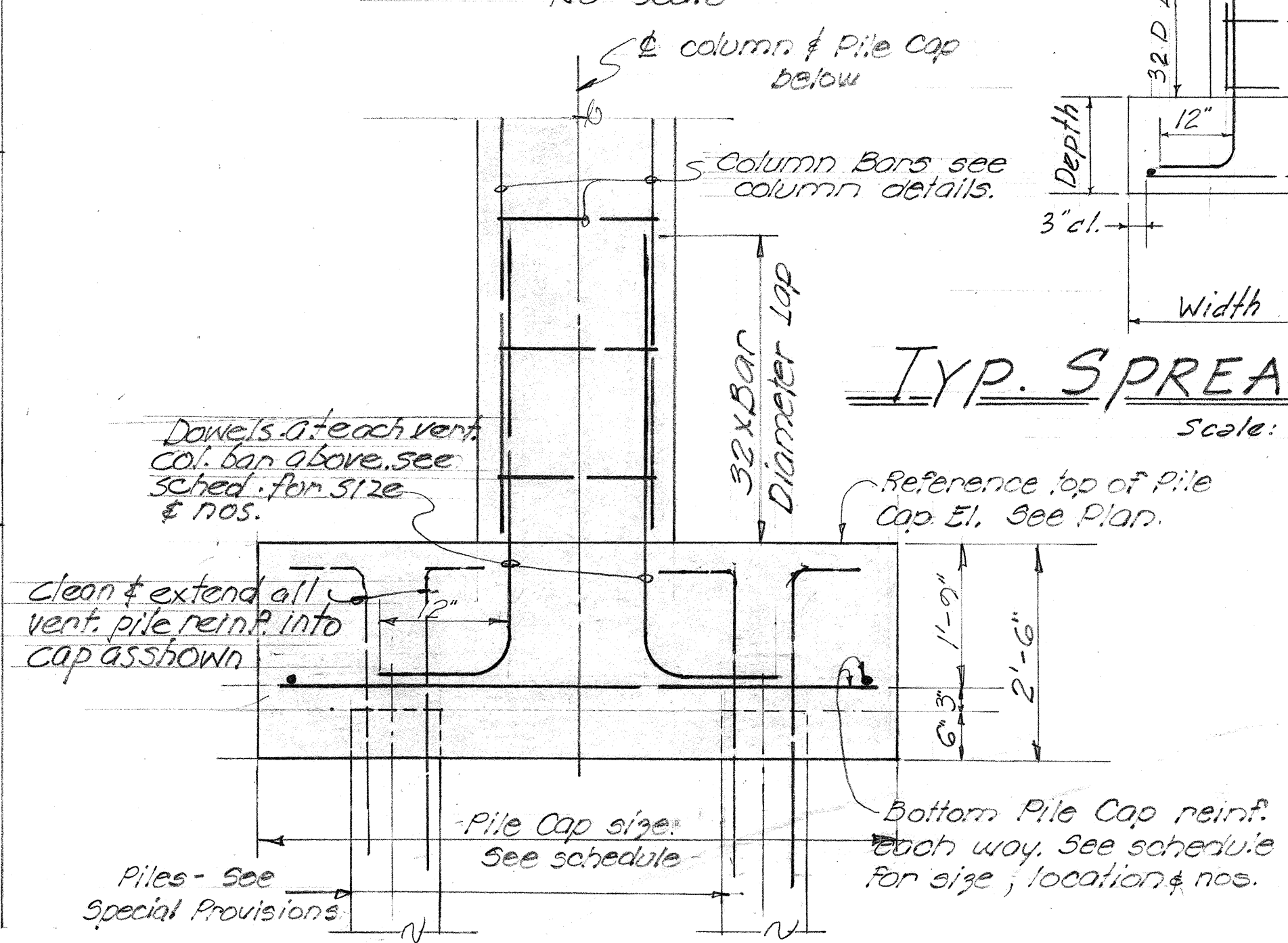


8 BARS



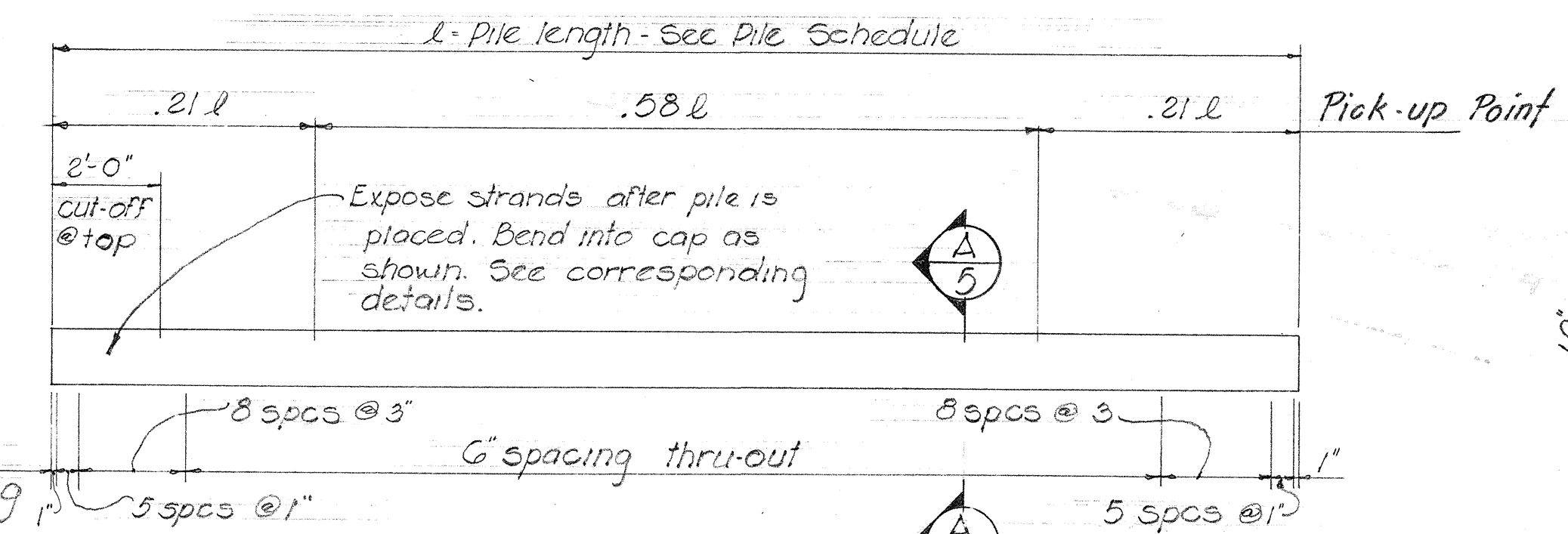
6 BARS

RECTANGULAR SECTIONS SQUARE SECTIONS
TYPICAL COLUMN SECTIONS

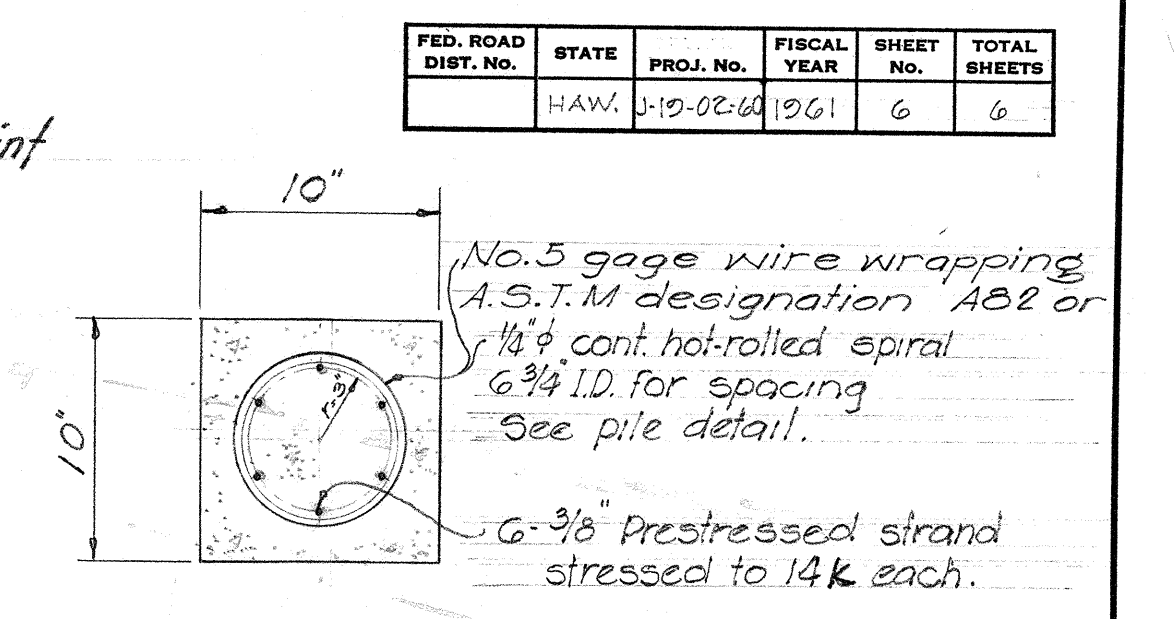


TYPICAL COLUMN FOUNDATION DETAIL
No Scale

SPREAD FOOTING SCHEDULE					
Type	FOOTING SIZE			BOTTOM REINF.	
	LENGTH	WIDTH	DEPTH	L.W.	S.W.
S-1	6'-0"	4'-0"	1'-6"	5-#6	7-#4
S-2	10'-0"	5'-0"	1'-6"	11-#6	11-#4



TYPICAL PRESTRESSED CONCRETE PILE DETAIL
Scale: 3/8" = 1'-0"



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

GENERAL NOTES

Prestressed Girder
f_c = 4200 psi at transfer
1/2" dia. 7-wire strand
Tensioning load = 13,900 lbs.

Prestressed Piles
f_c = 3500 psi at transfer
3/4" dia. 7-wire strands
Tensioning load = 14,000 lbs.

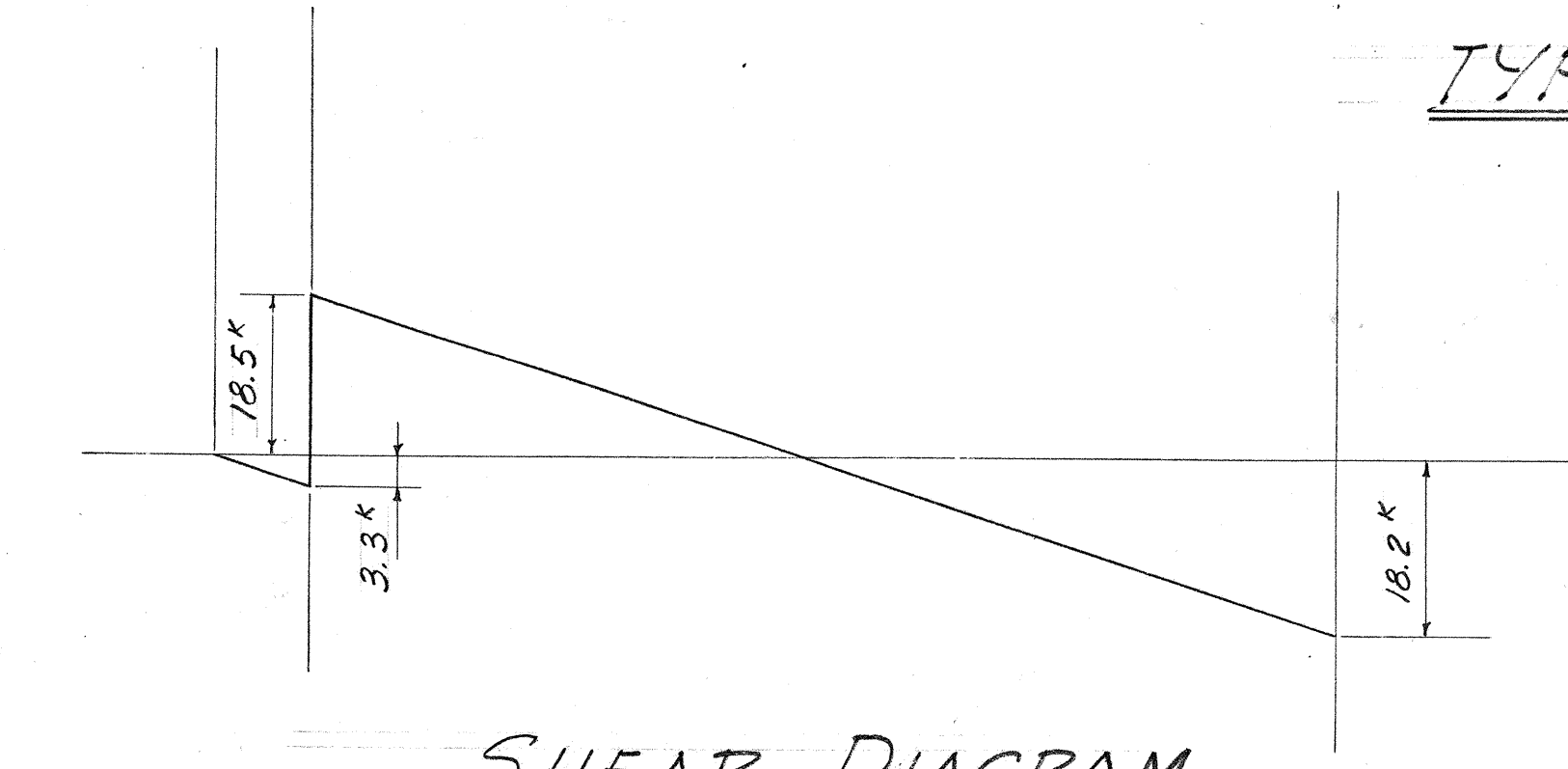
SPECIFICATION: AASHTO
Standard Specifications for Highway Bridges (7th Edition)
with subsequent additions & modifications

MATERIALS
Concrete - All concrete shall be Class A-1 except concrete for prestressed girders & piles, see special provisions.
Admixture - See special provisions.

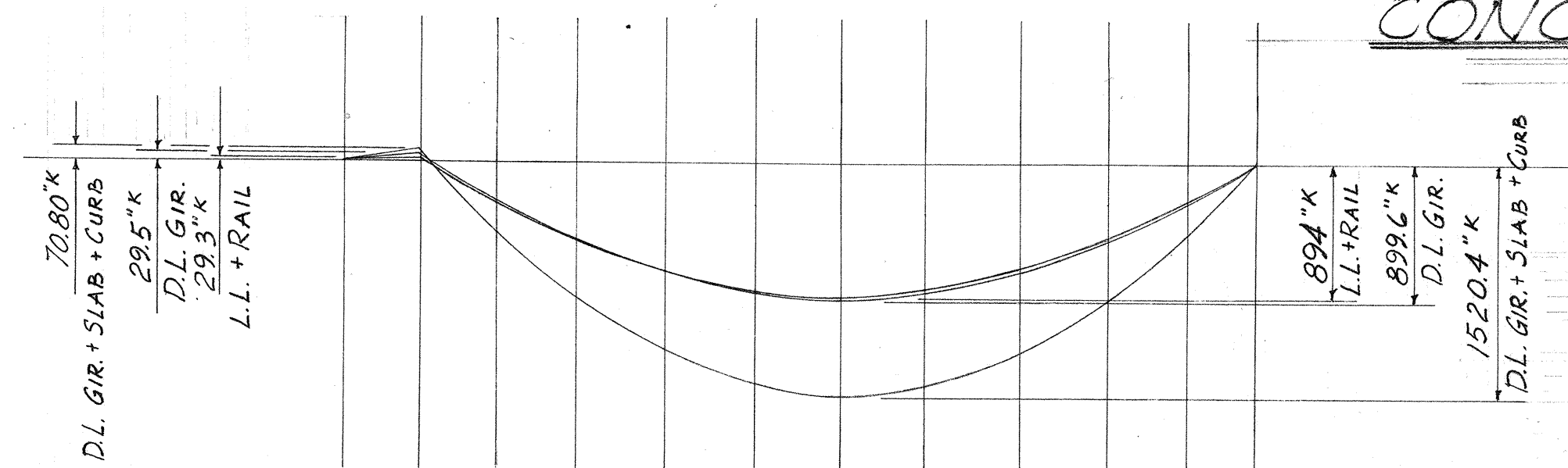
CONSTRUCTION METHODS
General - See special provisions.
Welding - All welding shall conform to the latest specifications for Welding Highway & Railway Bridges, Design, Construction and Repair of the American Welding Society.
Forms - Forms for all exposed surfaces of structure, (except prestressed girders & piles) shall be plywood. Forms for prestressed girders shall be made of material that will produce a smooth finish & true dimensions as shown in the plans.
Finish - See standard specifications for finish except as noted on Normal Section on sheet #4. Top surface of deck, stairs, and landings shall have a rough wearing surface produced by sprinkling uniformly 1/2 lb/sq ft of #5-#16 size Aluminum oxide on fresh concrete and finished with a wood trowel. This item is incidental to Class A-1 concrete and will not be paid for separately. All exposed edges shall be chamfered 3" unless otherwise noted.

Repairs to Galvanizing on pipe Railings - see sect. 44.3 (1) of Special Provisions.

Piling - Leads shall be used, but may be of the suspended type.



SHEAR DIAGRAM
Scale: Horizontal: 1/8" = 1'-0"
Vertical: 1" = 20 k



MOMENT DIAGRAM
Scale: Horizontal: 1/8" = 1'-0"
Vertical: 1" = 1000 k

TYPICAL PRECAST CONCRETE PILE DETAIL
Scale: 3/8" = 1'-0"

Col. No.	Pile Cut-off Elev.	Pile Tip Elev.	No. of Piles	Pile Length
1	186.0	168.0	4	20.5'
2	186.0	168.0	3	20.5'
3	190.0	168.0	4	24.5'
4	191.0	168.0	2	25.5'
5	191.0	168.0	4	25.5'
6	—	—	—	—
7	—	—	—	—
8	198.0	176.0	3	24.5'
9	201.0	176.0	5	27.5'

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STATE OF HAWAII

TYPICAL DETAILS

PEDESTRIAN OVERCROSSING 1 & 2

HAKALAU, HAWAII - #1
PA PAL KOU, HAWAII - #2

J-19-02-60

APRIL 1961