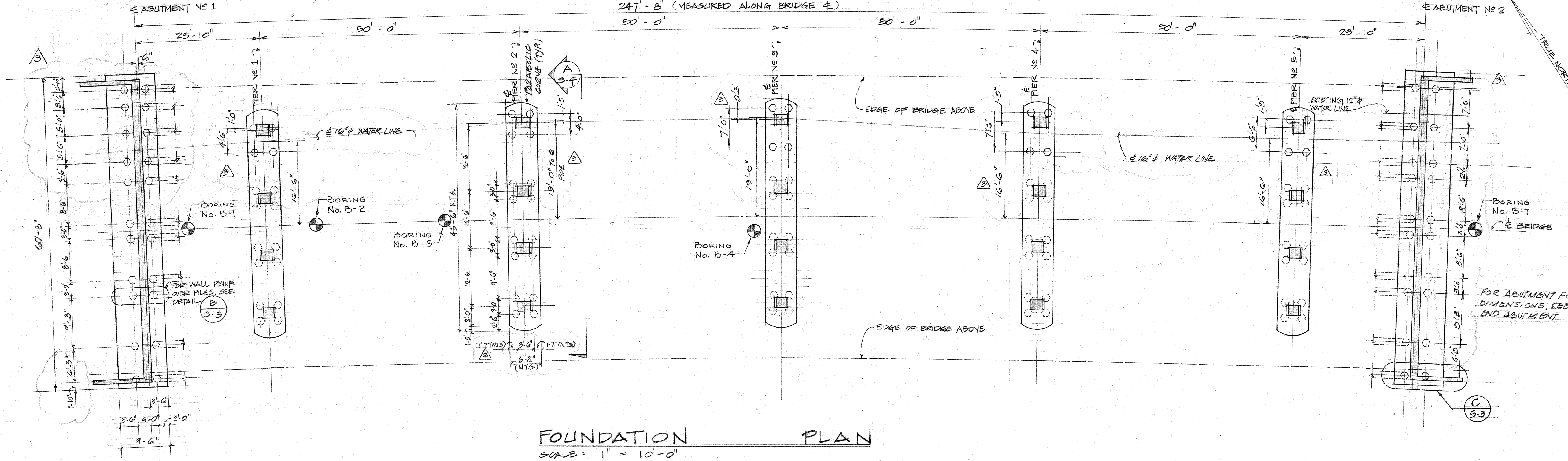
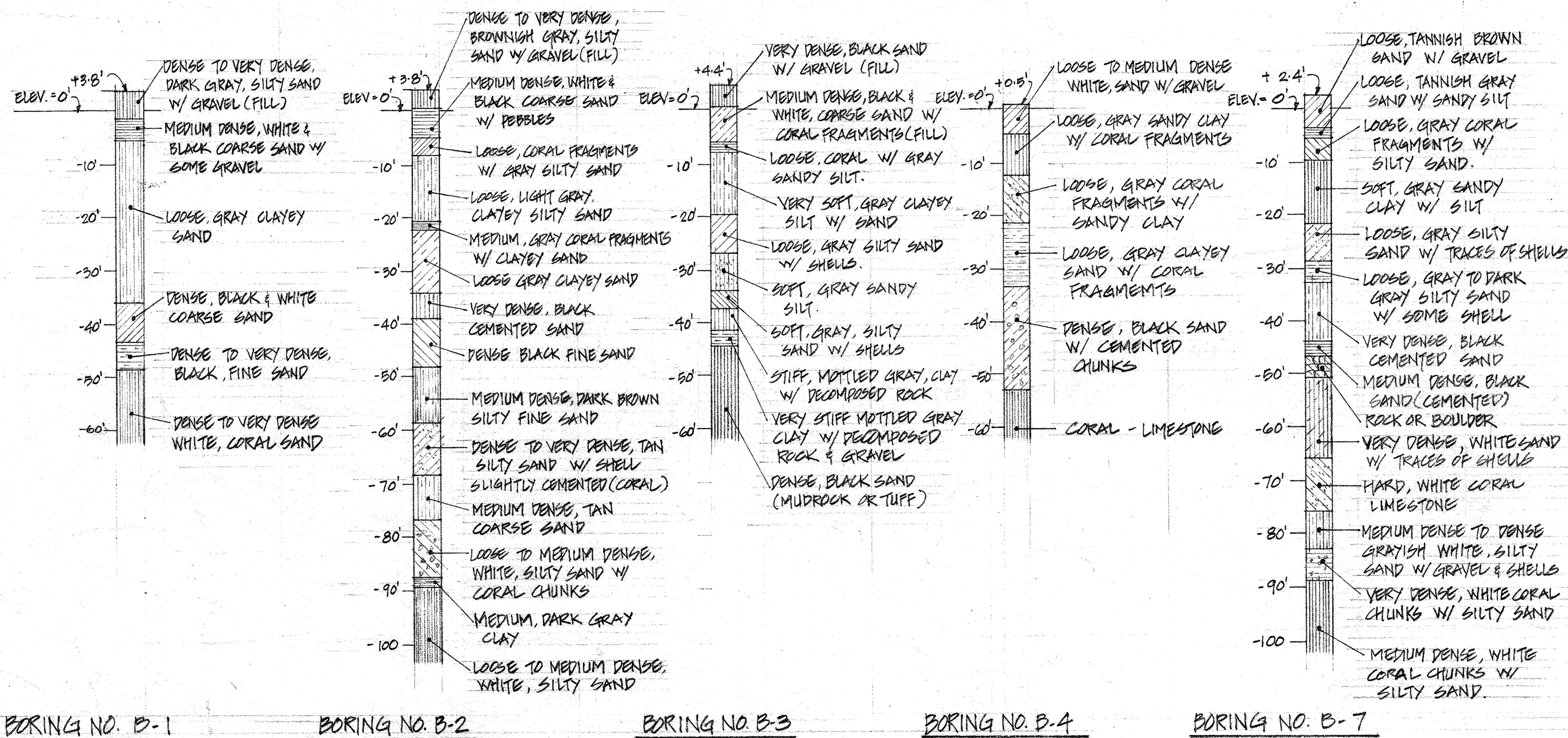


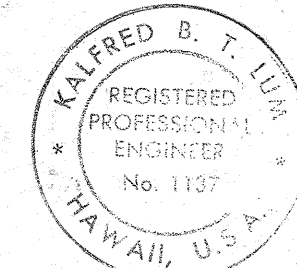


BORING LOG



GENERAL NOTES

- I. SPECIFICATIONS:
 1. THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS WITH SUBSEQUENT ADDITIONS & MODIFICATIONS SHALL APPLY:
 - A. AASHTO - STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.
 - B. HAWAII STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION.
- II. DESIGN LOADS:
 - A. AASHTO HS 20-44 TRUCK LOADING
 - B. A 30% INCREASE IN LIVE LOAD ALLOWED FOR IMPACT.
- III. CONCRETE:
 - A. 28 DAYS COMPRESSIVE STRENGTH:
 1. ALL CAST-IN-PLACE & PRECAST CONCRETE - CLASS A-1 (MODIFIED)
 2. PRECAST PRESTRESSED CONCRETE - $f'_c = 6000$ PSI
 3. GROUT FOR PLANK KEYS - USE DENSE CONCRETE.
 - B. PRECAST PRESTRESSED CONCRETE:
 1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRECAST PRESTRESSED MEMBERS FOR APPROVAL PRIOR TO FABRICATION.
 2. PRESTRESSING FABRICATOR SHALL NOTIFY ENGINEER BEFORE POURING ALL PRESTRESSED MEMBERS FOR FINAL INSPECTION.
 - C. REINFORCING STEEL:
 1. ALL REINFORCING STEEL SHALL BE INTERMEDIATE GRADE & SHALL CONFORM TO ASTM A15 WITH DEFORMATIONS CONFORMING TO ASTM A308. DESIGN STRESS $f_s = 20,000$ PSI
 2. SPLICES SHALL BE WIRED TOGETHER & SHALL LAP OR EXTEND A MINIMUM OF 40 BAR DIAMETERS UNLESS SHOWN OTHERWISE.
 - D. CONCRETE PROTECTION:
 1. BRIDGE DECK - $\frac{1}{2}$ " TO TOP BARS; $\frac{1}{4}$ " TO BOTTOM BARS
 2. COLUMNS, GIRDERS, ABUTMENTS, WINGWALLS - $\frac{1}{2}$ "
 3. FILE CAPS - AS SHOWN ON DRAWINGS
 - E. PRESTRESSING STRANDS SHALL BE STRESS RELIEVED 7 WIRE STRANDS ($\frac{1}{2}$ " ϕ) CONFORMING TO ASTM A416, & SHALL BE TENSIONED TO 25.2 K EACH STRAND.
- IV. GENERAL ERECTION PROCEDURE:
 1. DRIVE PILES.
 2. POUR ALL FILE CAPS.
 3. POUR PIERS, GIRDERS, ABUTMENTS & WINGWALLS.
 4. ERECT PRECAST-PRESTRESSED DECK SECTIONS. SHORE AT ABUTMENT ENDS & AT POINTS NEAR MIDSPANS.
 5. MAKE DOWEL CONNECTIONS.
 6. GROUT DECK JOINTS & POUR CAST-IN-PLACE DECK SECTIONS, TOPPING, & TOP OF ABUTMENT WALLS & WINGWALLS.
 7. POUR SIDEWALKS & END POSTS.
 8. BACKFILL BEHIND ABUTMENTS 7 DAYS AFTER POURING, OR AFTER CONCRETE HAS ATTAINED A MINIMUM STRENGTH OF 3,000 PSI.
 9. ERECT RAILING.
- V. PILE DRIVING:
 - A. FILE SIZE:
 1. DESIGN BEARING CAPACITY - 50 TONS
 2. MINIMUM DRIVING RESISTANCE - 5 BLOWS TO THE INCH FOR THE LAST 3 INCHES
 3. MINIMUM FILE HAMMER ENERGY - 24,000 FT. LBS.
 - B. FILE DRIVING CONTRACTOR SHALL ABSORB ALL COSTS OF INCREASED FILECAP SIZE DUE TO MISDRIVEN PILES.
 - C. FOR BIDDING PURPOSES, FILE TIP ELEVATION SHALL BE ASSUMED AS -60.00'

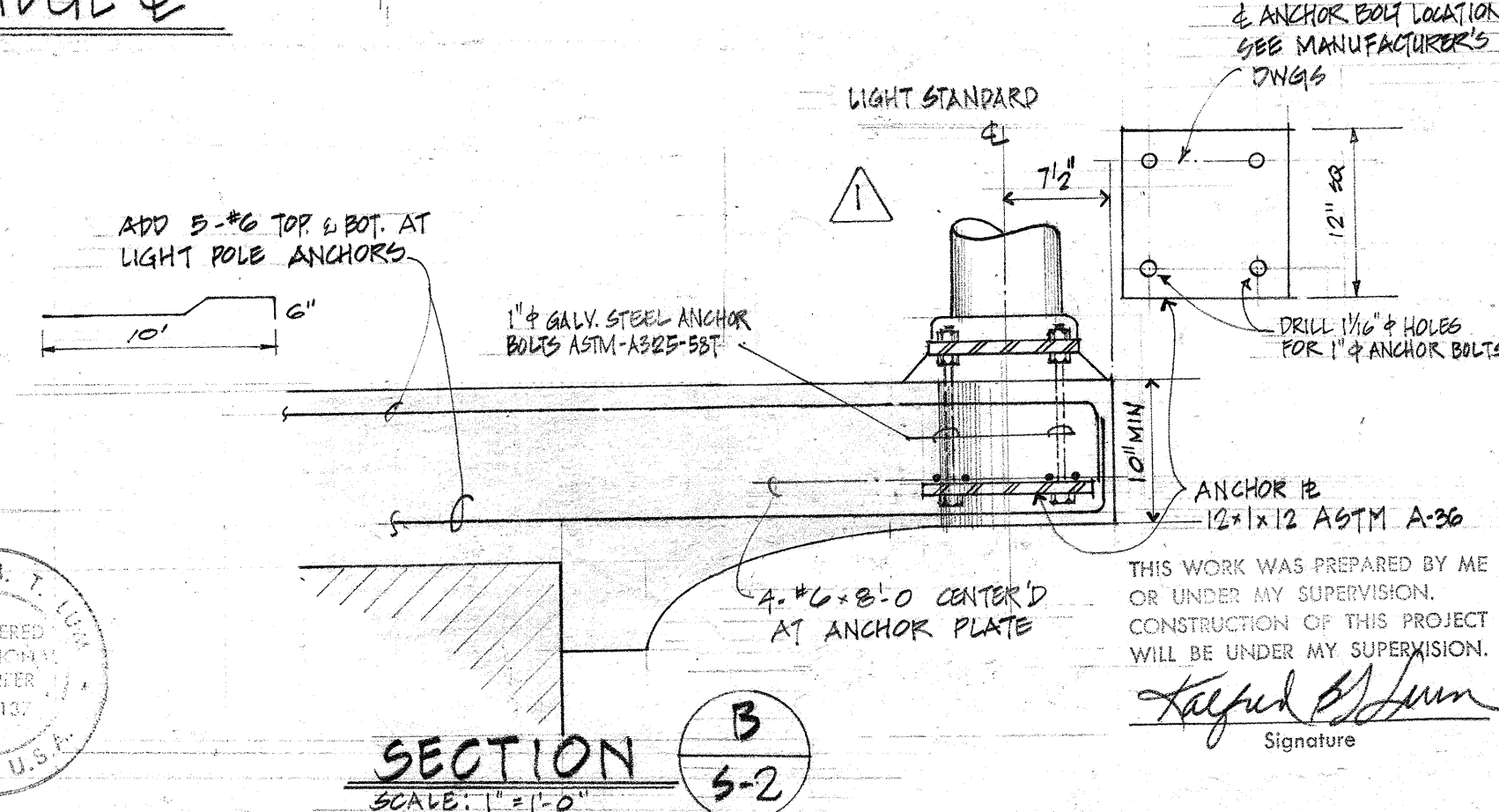
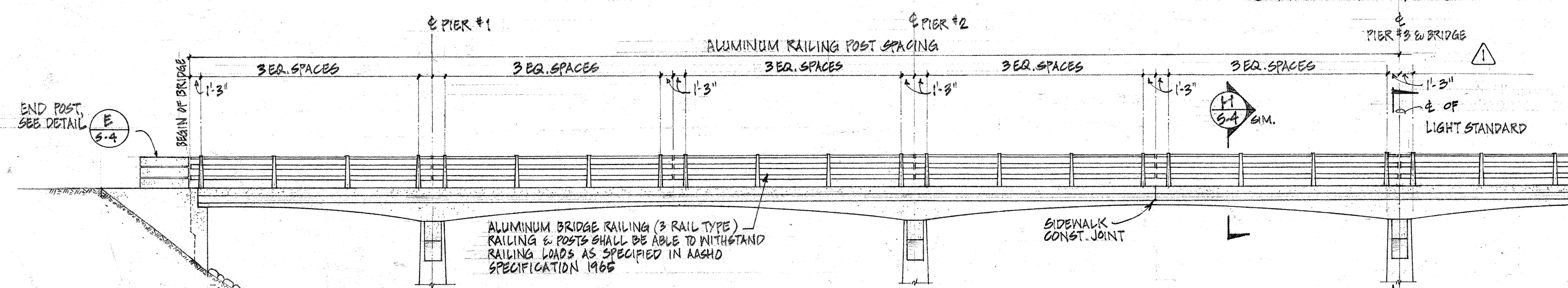
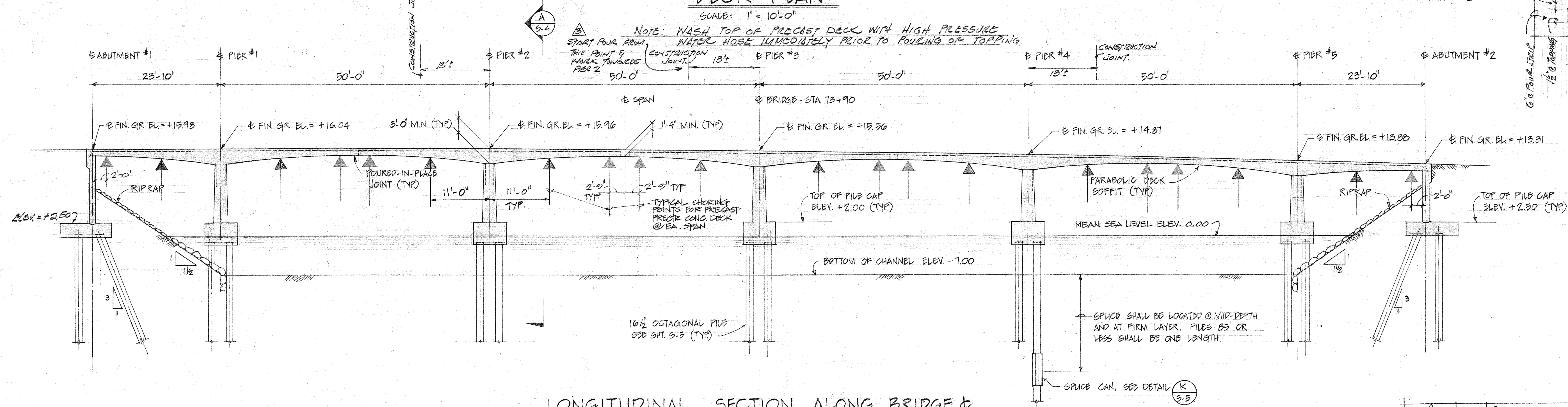
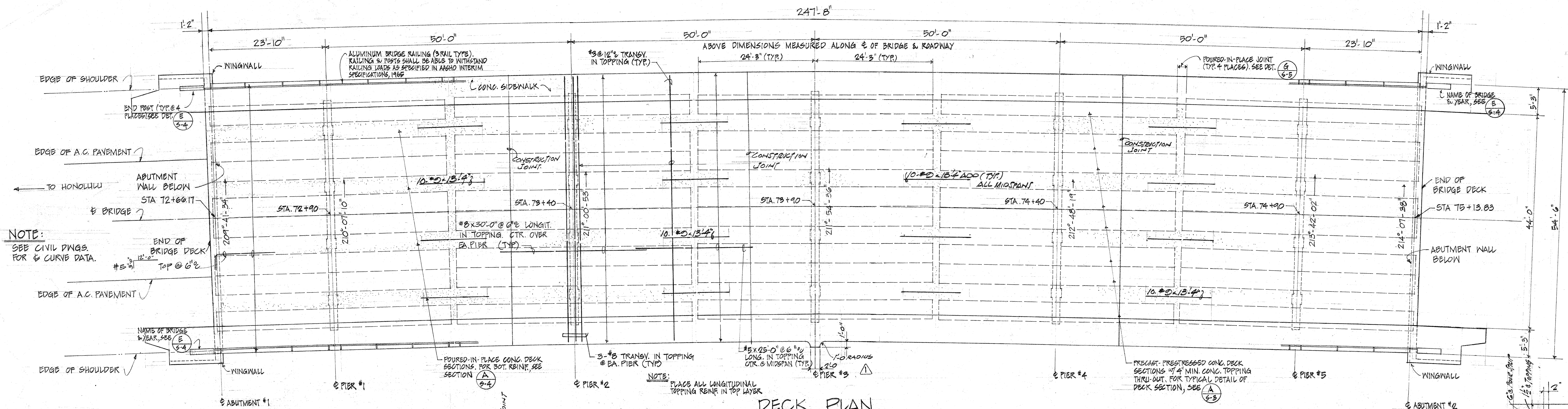


THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION.

K. L. L.
Signature

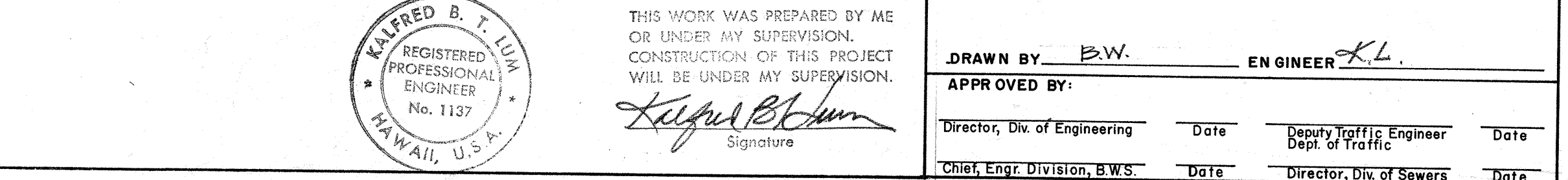
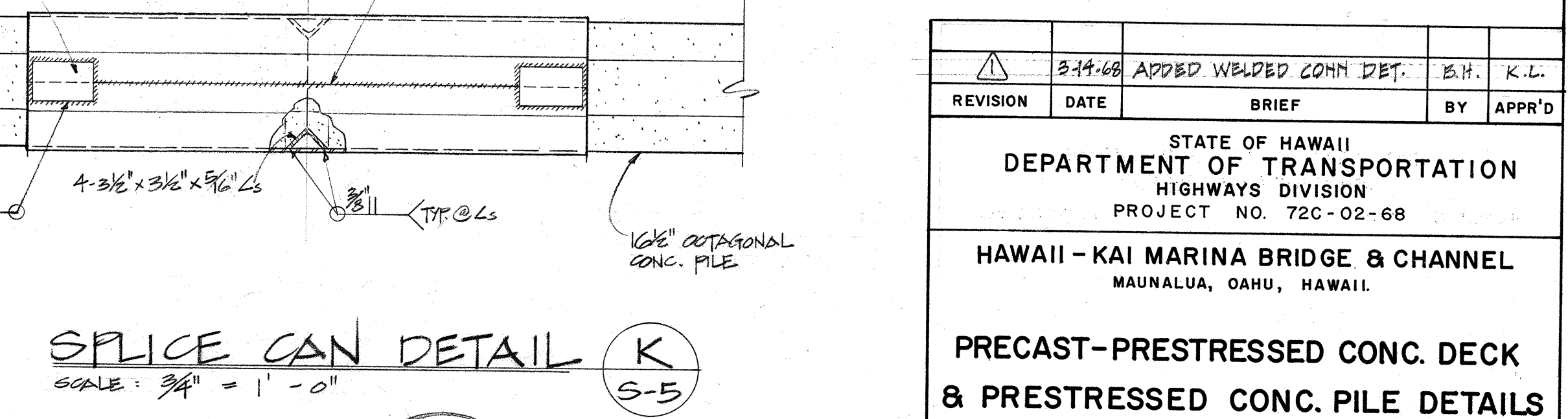
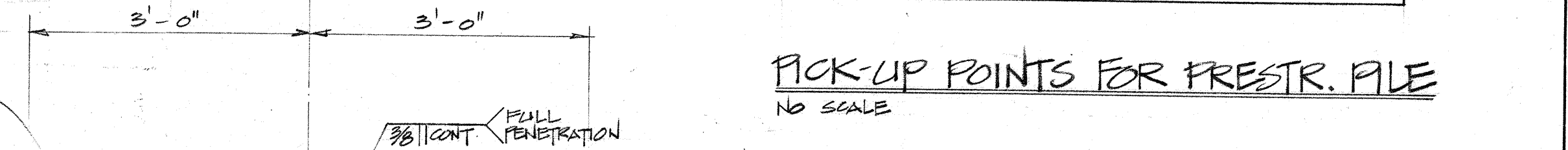
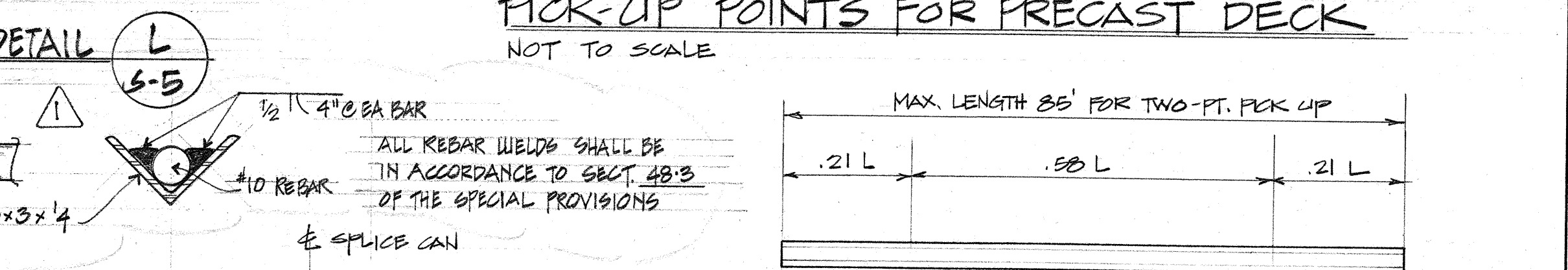
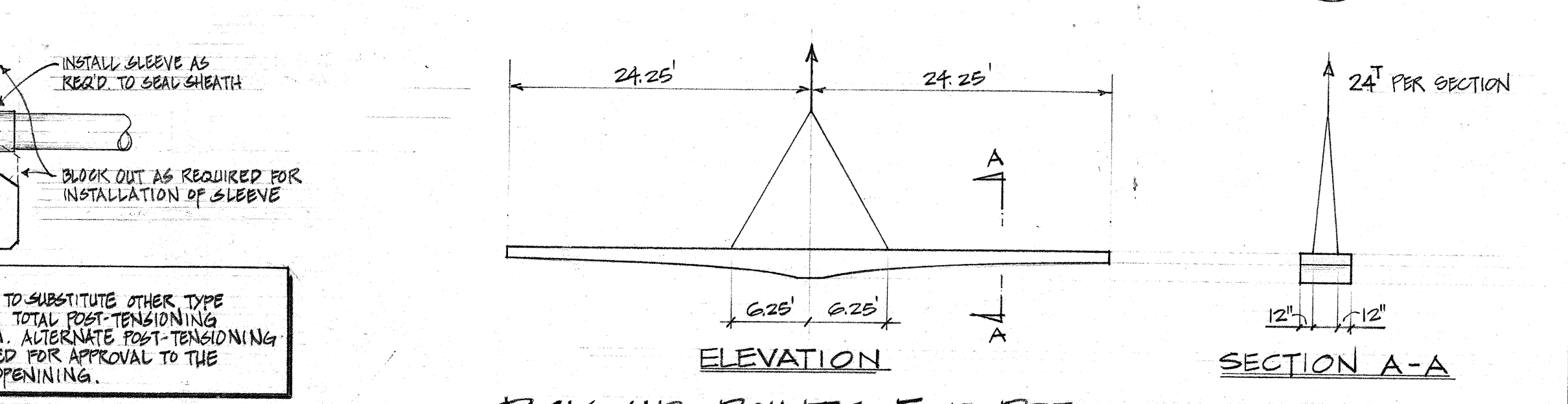
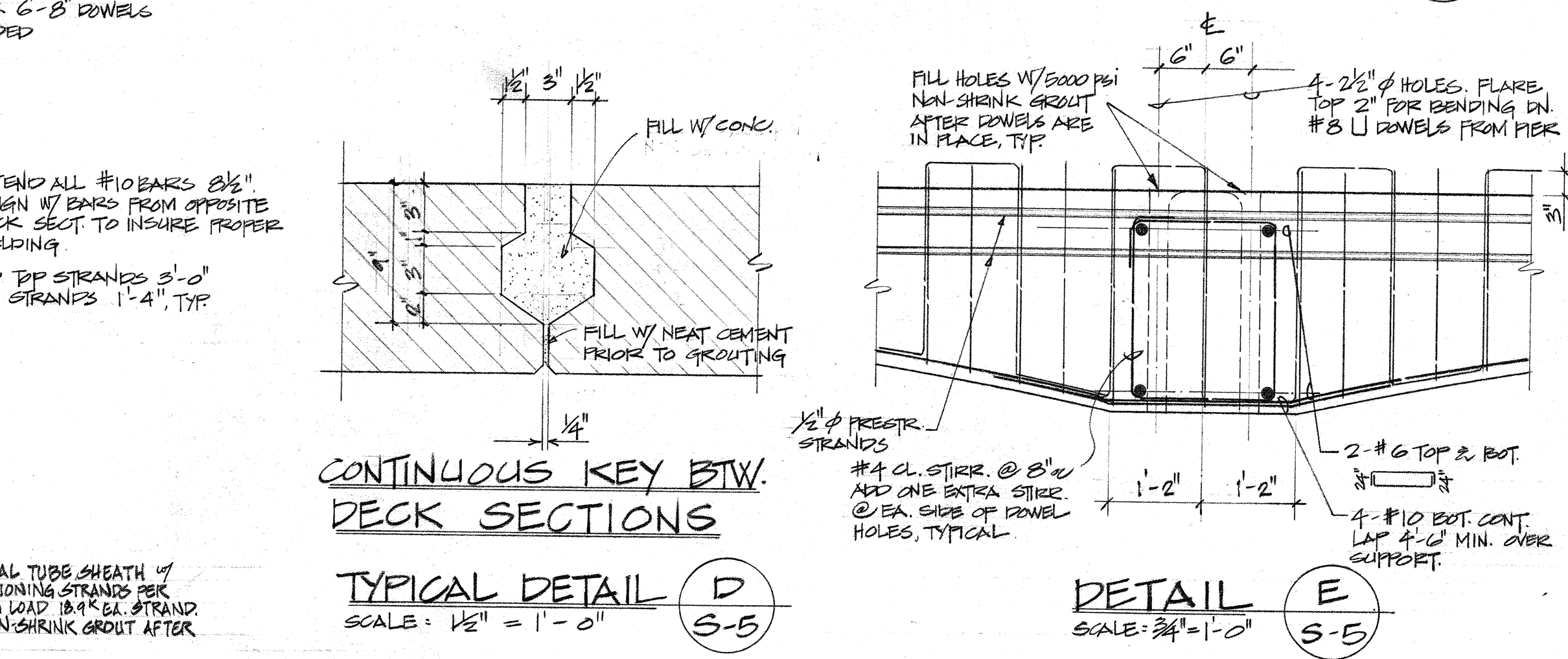
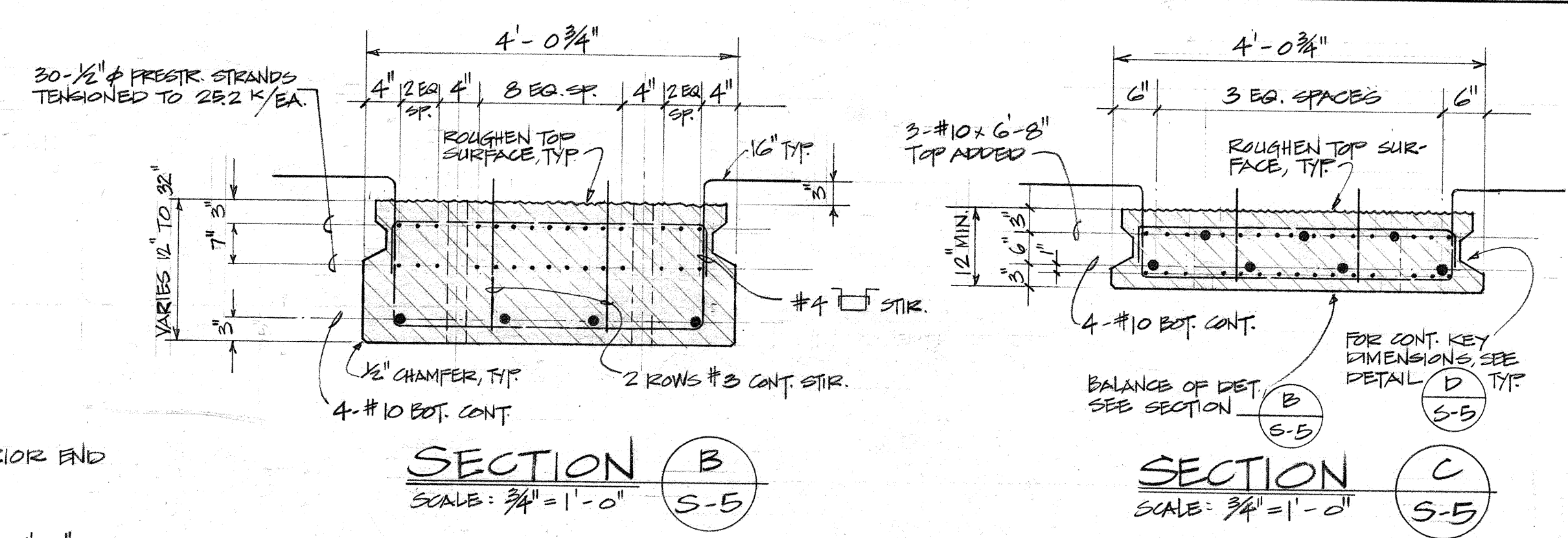
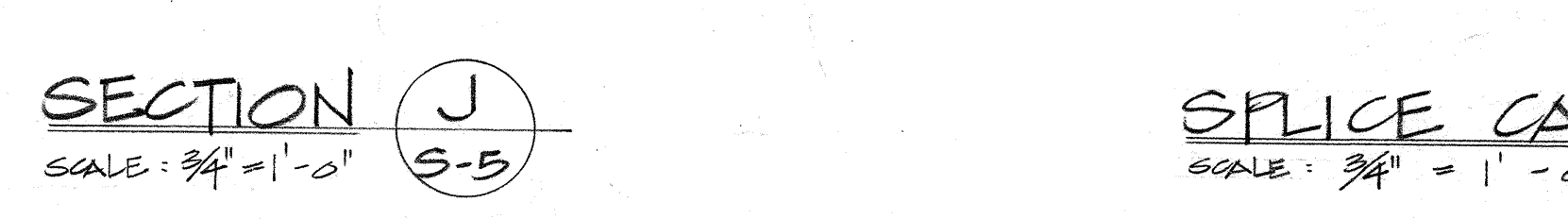
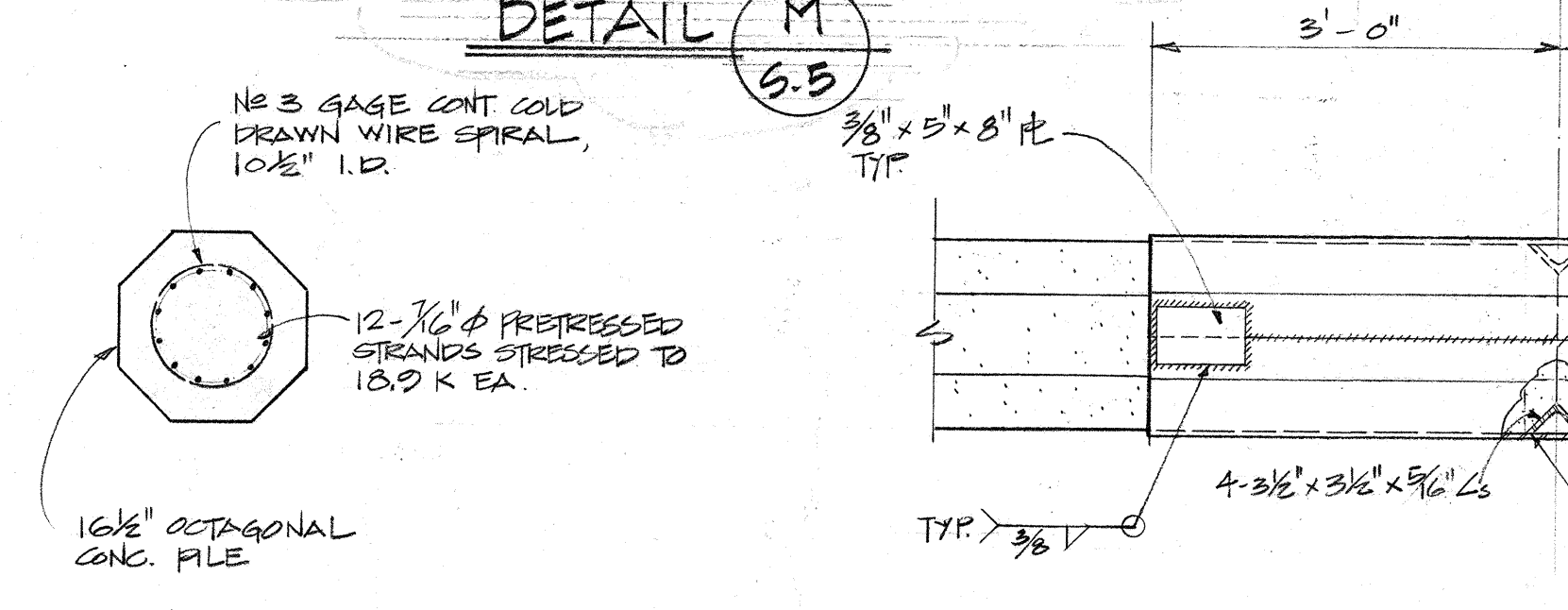
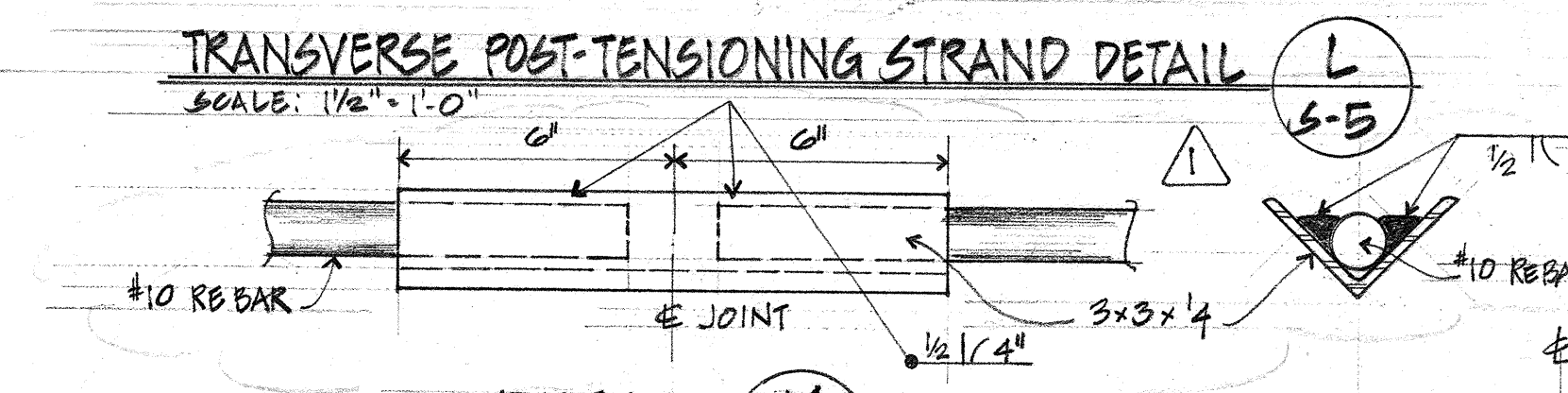
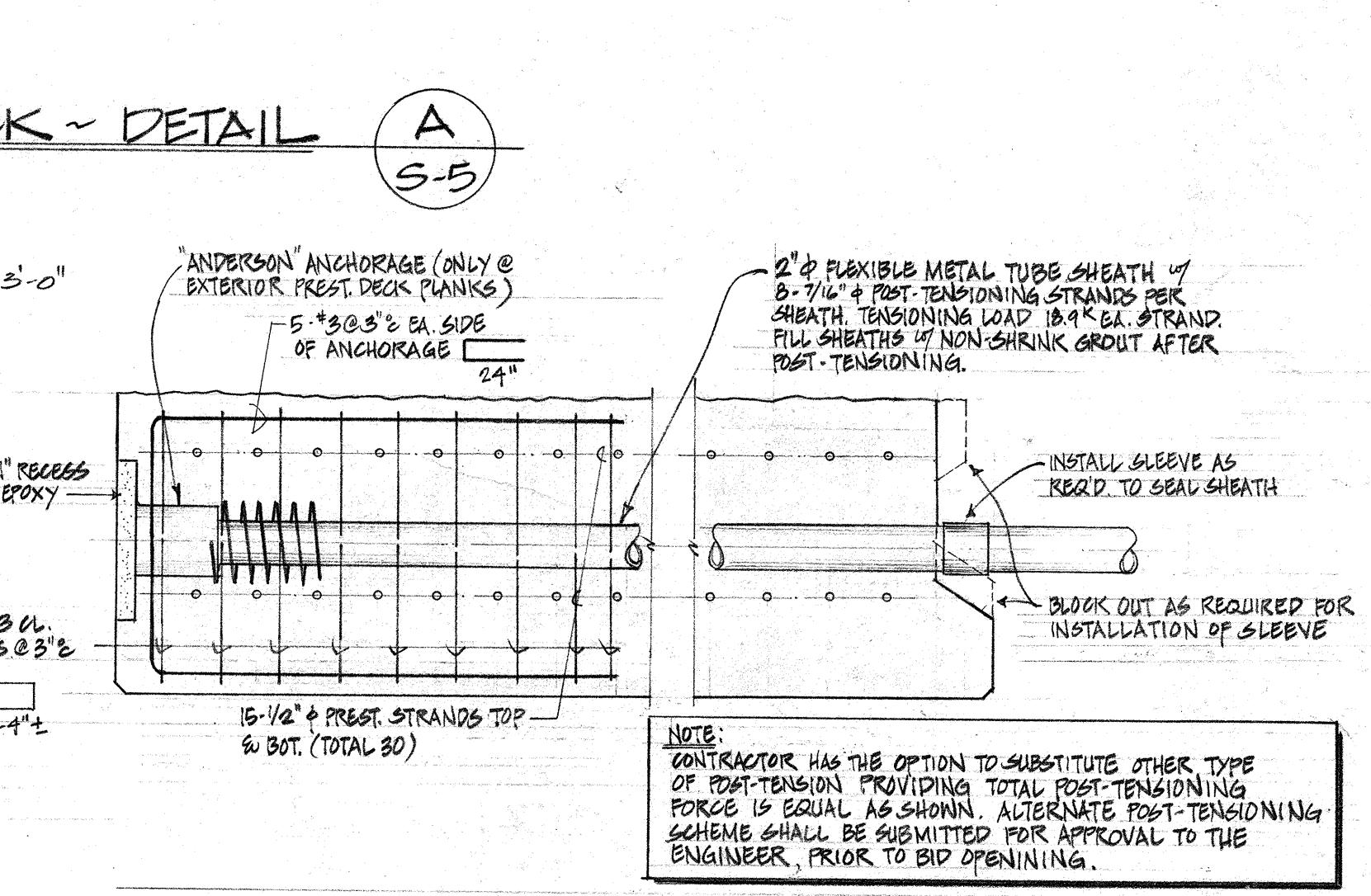
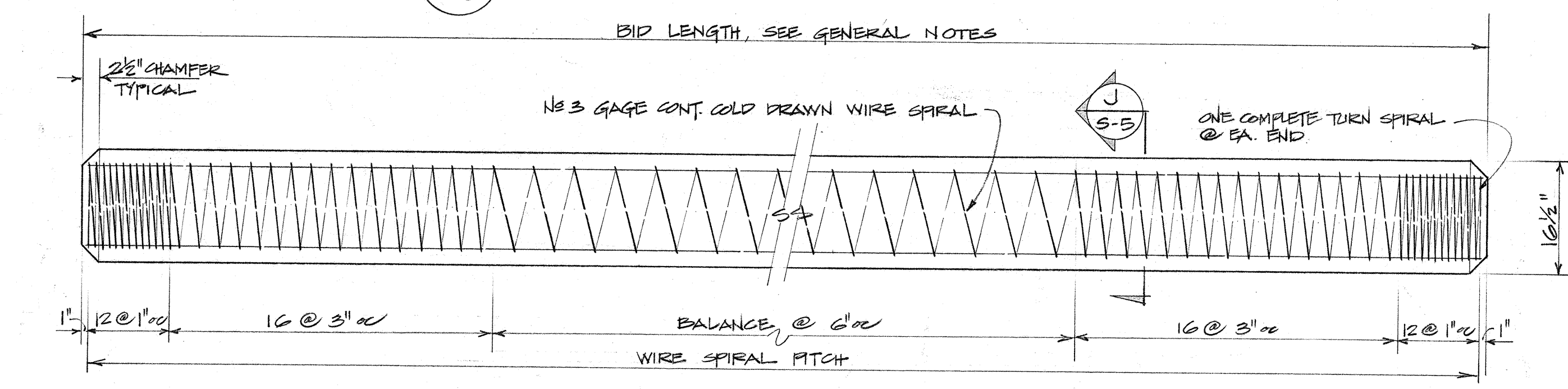
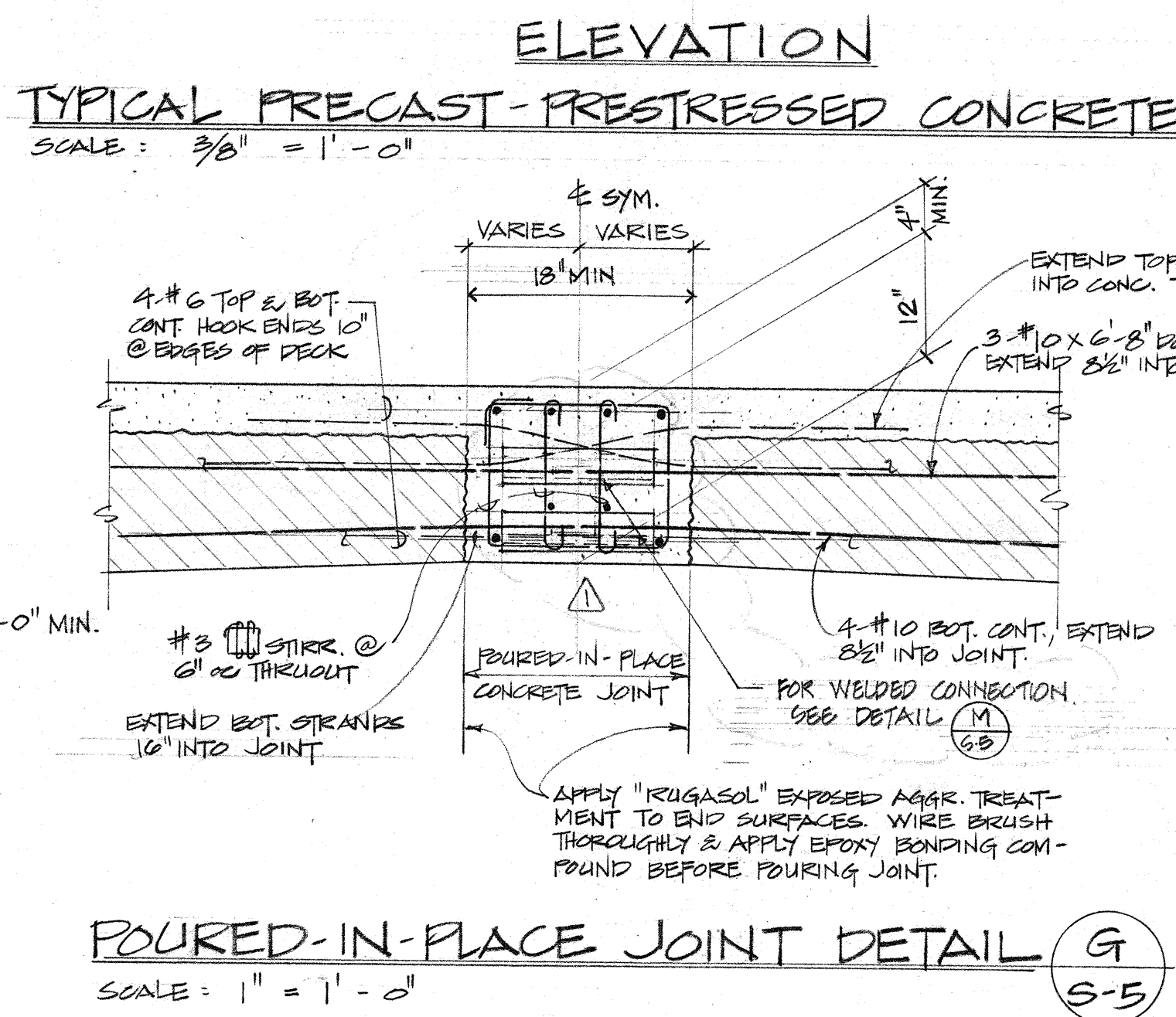
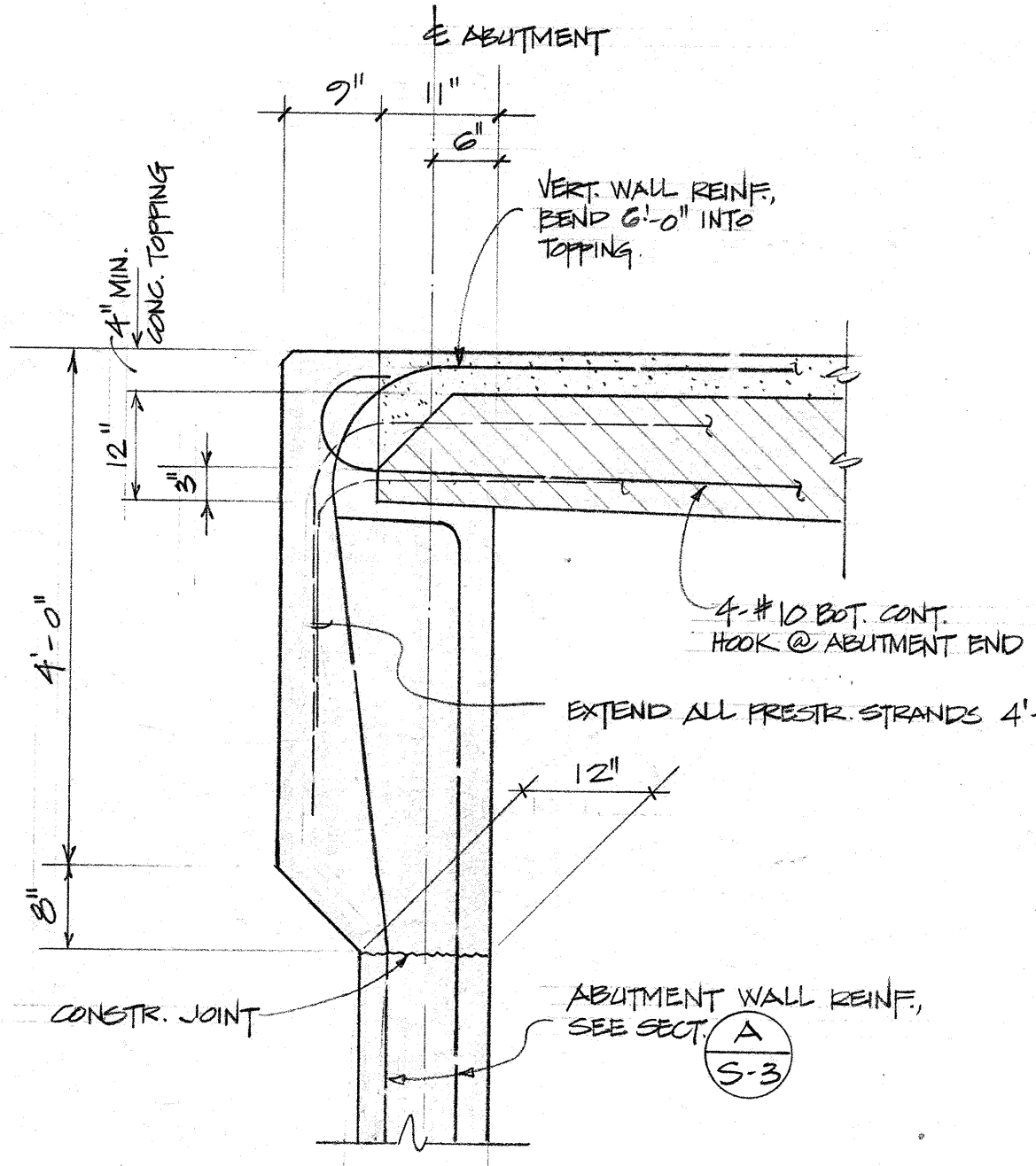
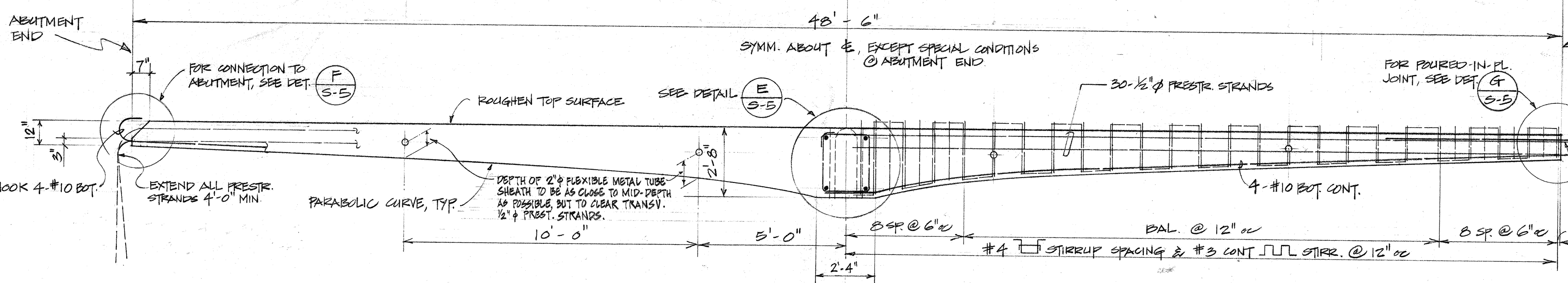
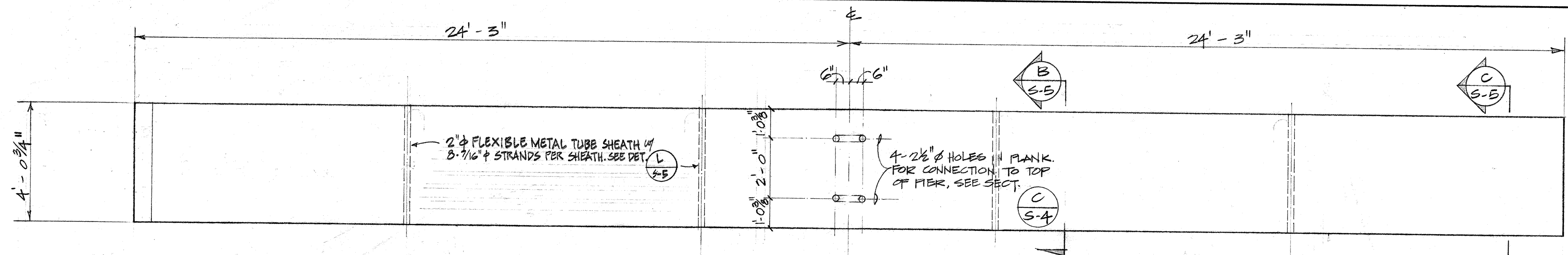
REVISION	DATE	BRIEF	BY	APPR'D
1	9-25-68	RELOCATION OF PILES	B.H.	K.L.
2	4-3-68	INCREASE FILECAP WIDTH	R.M.	H.L.

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION PROJECT NO. 72C-02-68			
HAWAII - KAI MARINA BRIDGE & CHANNEL MAUNALUA, OAHU, HAWAII.			
FOUNDATION PLAN, GENERAL NOTES & BORING LOG			
DRAWN BY: B.W.		ENGINEER: K.L.	
APPROVED BY:			
Director, Div. of Engineering	Date	Deputy Traffic Engineer Dept. of Traffic	Date
Chief, Engr. Division, B.W.S.	Date	Director, Div. of Sewers	Date
File	Pocket	Folder	No.



REVISION	DATE	BRIEF	BY	APPR'D
1	4-22-69	DECK CONSTRUCTION	KL	KL
2	1-17-69	DECK CONSTRUCTION, JOINT	KL	KL
3	5-14-68	RELOCATION OF LIGHT STANDARD	B.H.	K.L.

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION PROJECT NO. 72C-02-68			
HAWAII - KAI MARINA BRIDGE & CHANNEL MAUNALUA, OAHU, HAWAII			
DECK PLAN & ELEVATION SECTION			
DRAWN BY: G.S., B.W.		ENGINEER: K.L.	
APPROVED BY:			
Director, Div. of Engineering	Date	Deputy Traffic Engineer Dept. of Traffic	Date
Chief, Engr. Division, BWS.	Date	Director, Div. of Sewers	Date
File	Pocket	Folder	No.



REVISION	DATE	BRIEF	BY	APPR'D
1	3-14-68	ADDED WELDED CONN DET.	B.W.	K.L.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PROJECT NO. 72C-02-68

HAWAII - KAI MARINA BRIDGE & CHANNEL
MAUNALUA, OAHU, HAWAII

PRECAST-PRESTRESSED CONC. DECK
& PRESTRESSED CONC. PILE DETAILS

DRAWN BY: B.W. ENGINEER: K.L.

APPROVED BY:

Director, Div. of Engineering	Date	Deputy Traffic Engineer	Date
Chief, Engr. Division, B.W.S.	Date	Director, Div. of Sewers	Date

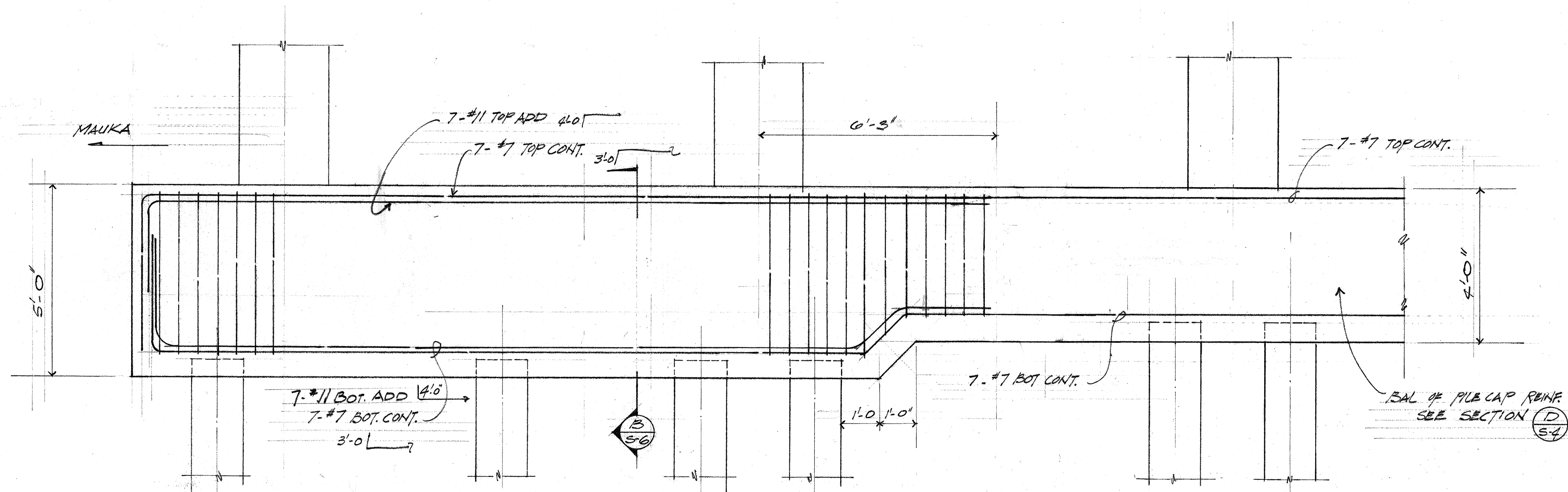
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DRAWING No S-5

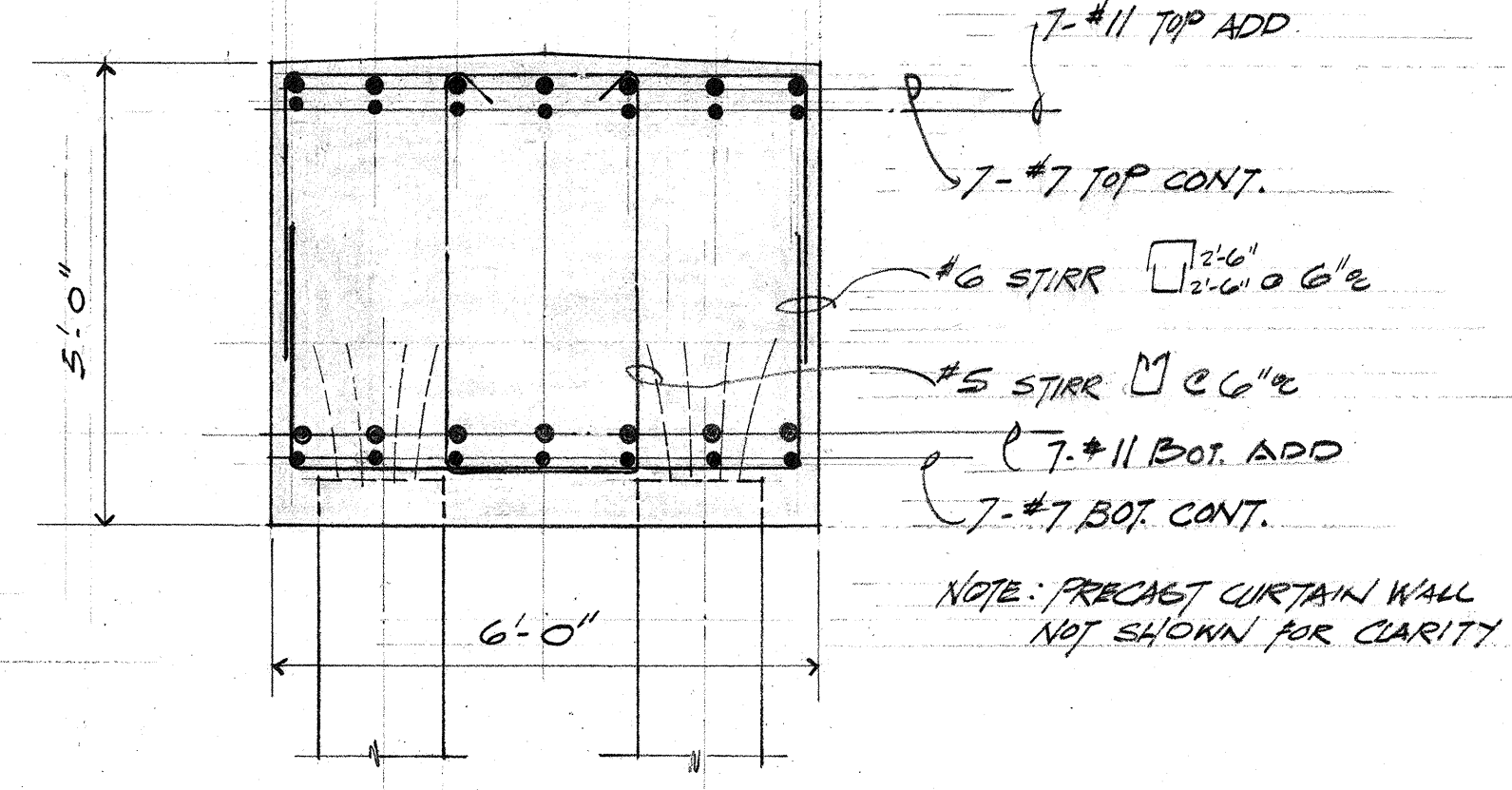
SHEET 18 OF 31 SHEETS

REVISED IN ACCORDANCE WITH CONSTRUCTION RECORDS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.				



REVISED PILE CAP DETAIL **A** S-6 AT MAUKA END OF
PIER NO. 1, 2, 3, 4 & 5 SCALE: 1/2"=1'-0"



SECTION **B** S-6
SCALE: 1/2"=1'-0"

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
NO.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROJECT NO. 72C-02-68
HAWAII - KAI MARINA BRIDGE & CHANNEL
MAUNALUA, OAHU, HAWAII

REVISED PILE CAP DETAIL
10-25-68

DRAWN BY S.H. ENGINEER K.L.

SHEET No. OF SHEETS

REVISED IN ACCORDANCE WITH CONSTRUCTION RECORDS