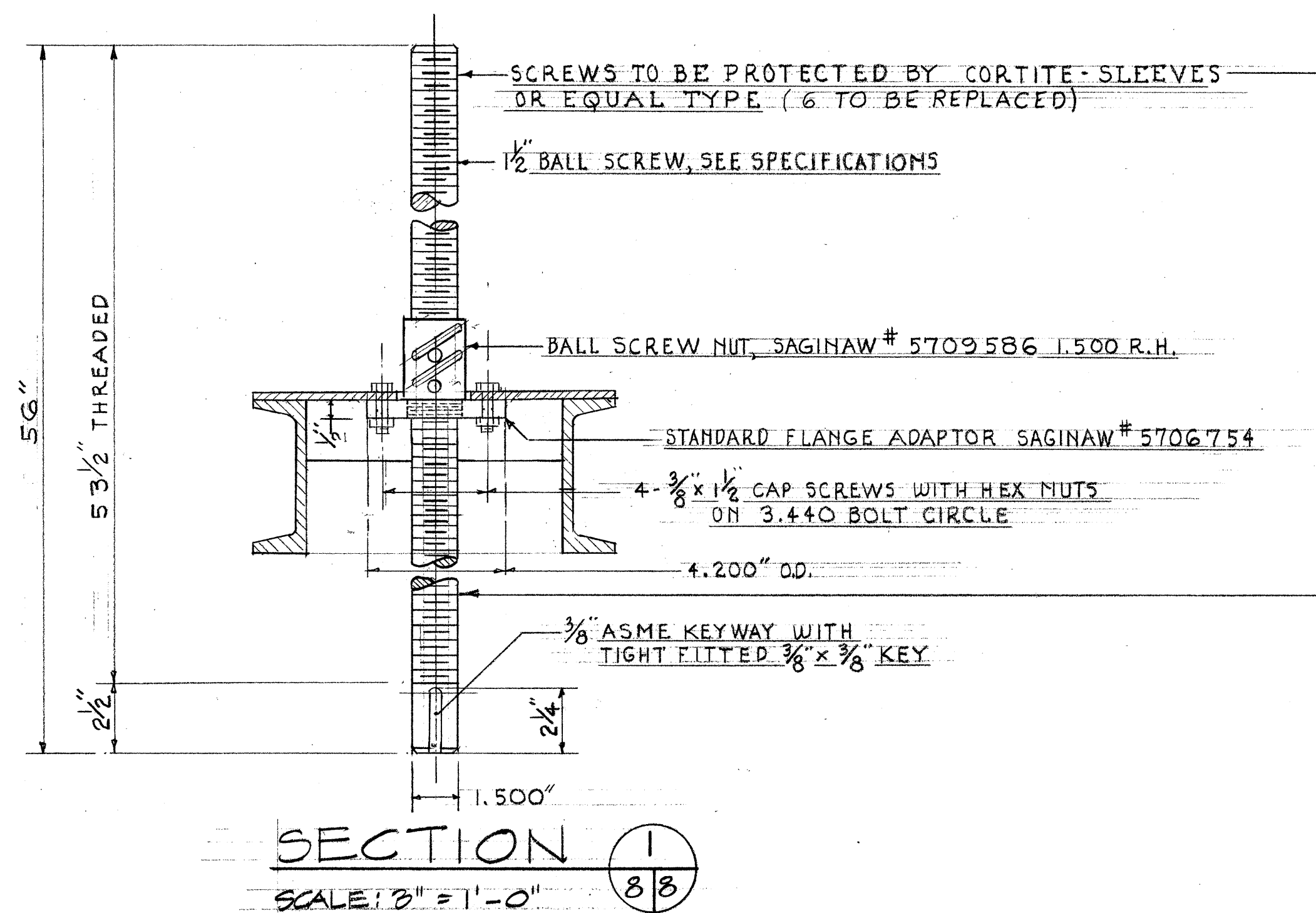
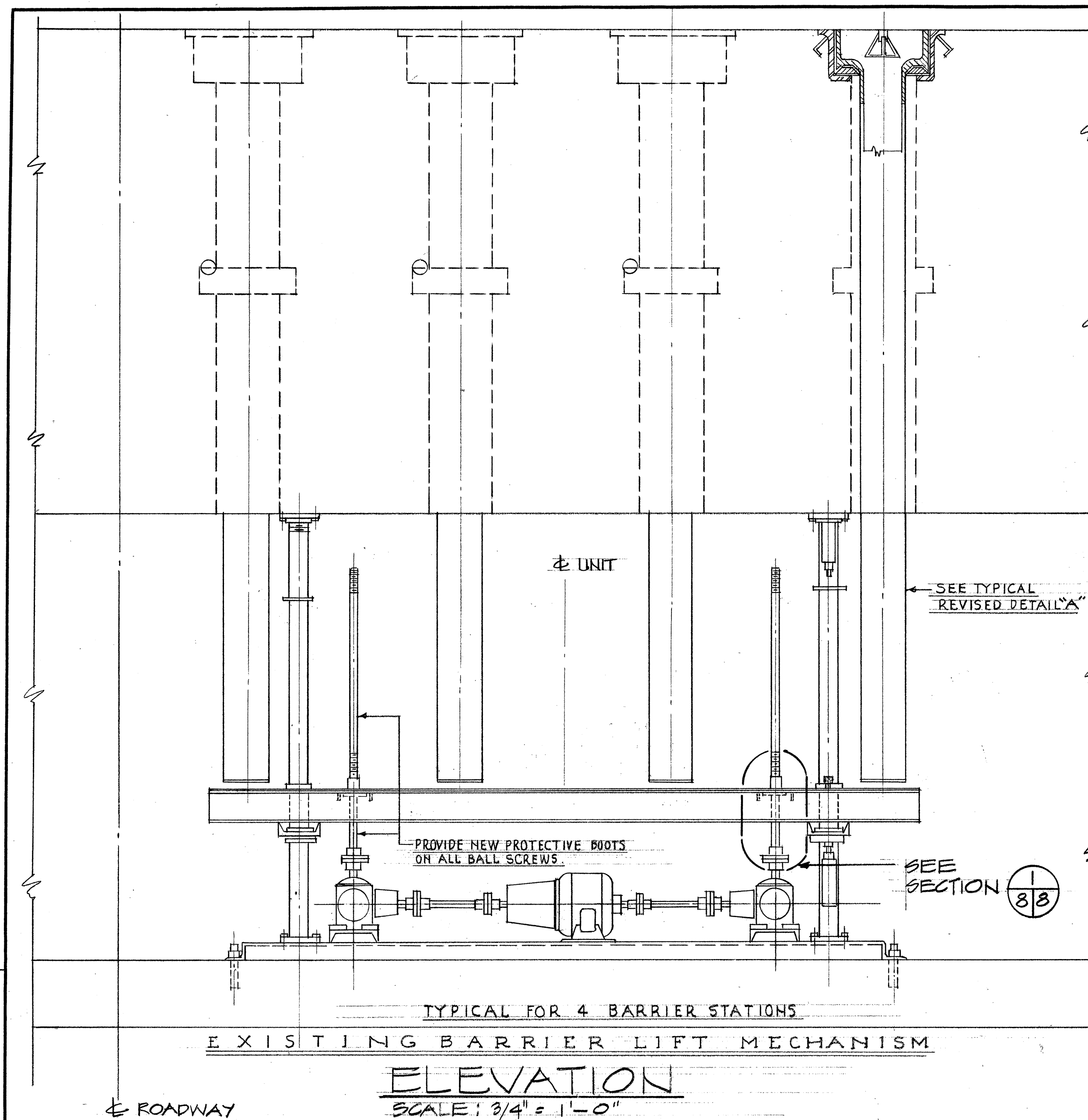
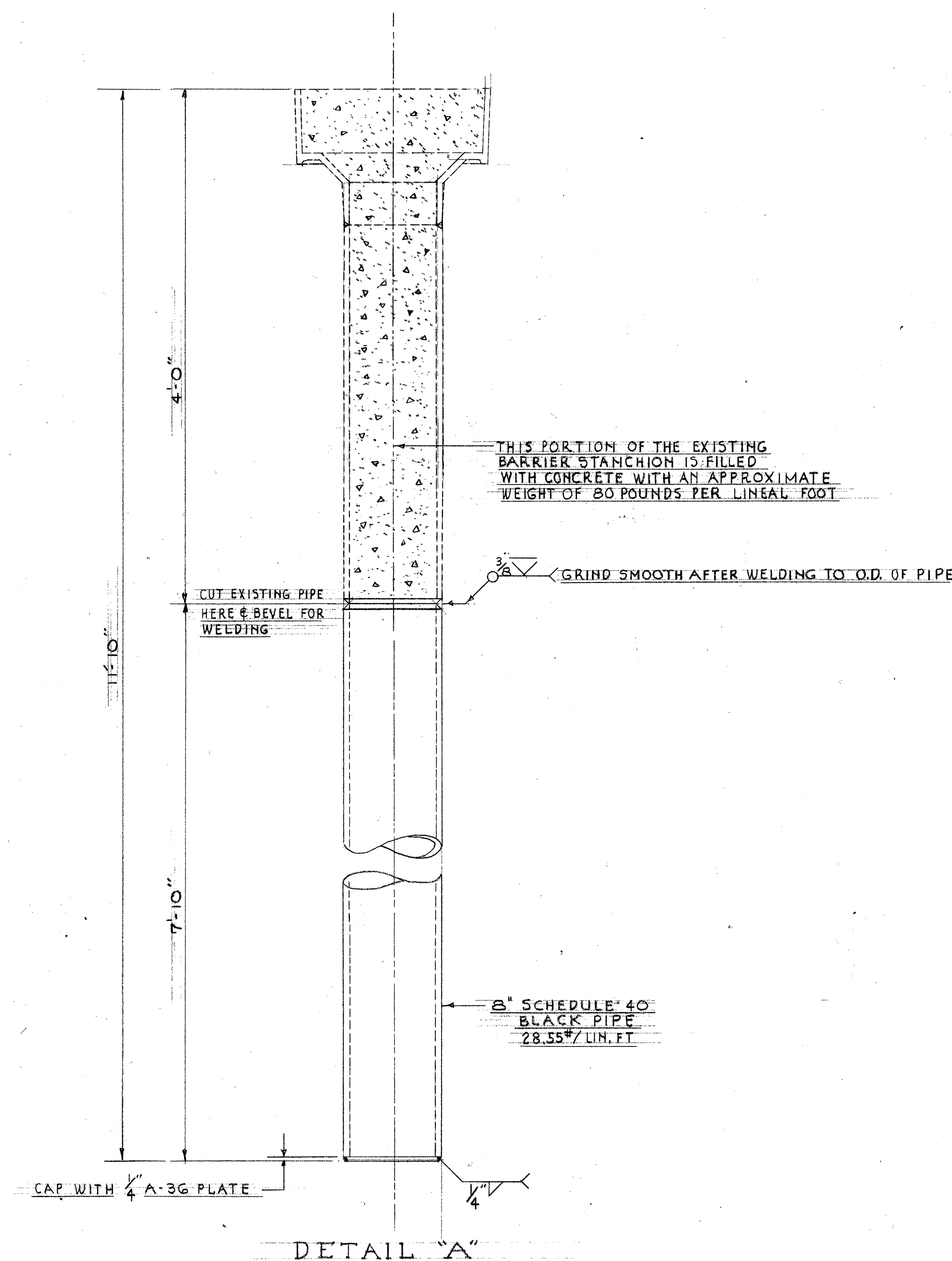
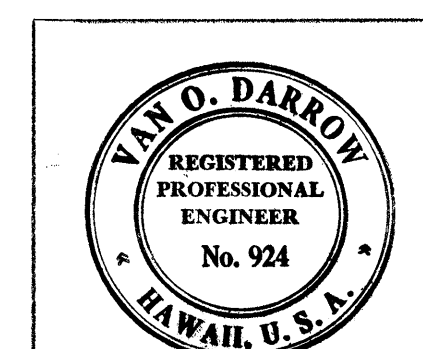




TYPICAL LAYOUT FOR RIGHT HAND
BALL SCREWS, SEE SPECIFICATIONS
TYPICAL FOR 6 TO BE REPLACED



REVISION TO EXISTING ROAD BARRIER STANCHIONS
TYPICAL FOR 12 TO BE REVISED TO REDUCE LIFTING WEIGHT.



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION AND
CONSTRUCTION OF THIS PROJECT
WILL BE UNDER MY SUPERVISION.
Signature
FOR REVISIONS & ADDITIONS
MECHANICAL PORTION ONLY

WORK NOTES

1. BARRIER UNIT CONSISTING OF 4 STANCHIONS HAS BEEN REVISED TO REDUCE OVERALL WEIGHT OF THE BARRIER STANCHIONS. THE PURPOSE OF REDUCING THE WEIGHT IS TO REDUCE THE LOAD REQUIREMENTS ON THE BALL SCREW LIFTING AND LOWERING MECHANISM AND INCREASE THE LIFE CYCLE OF THE BALL SCREWS AND BALL SCREW NUTS

PROCEDURE:

REMOVE EACH BARRIER SCREW BY MEANS OF THE 1/4" LIFTING INSERT PROVIDED IN THE TOP OF THE STANCHION.
CUT OFF EXISTING CONCRETE FILLED SECTION OF PIPE 4'-0" BELOW THE TOP OF THE STANCHION AND DISCARD THE 7'-10" PORTION. BEVEL THE END FOR REWELDING AND CHIP AWAY CONCRETE IN PERIPHERAL AREA OF THE NEW WELD. BEVEL FOR WELDING 7'-10" LENGTH OF 8" SCHEDULE 40 PIPE AND CAP OTHER END WITH 1/4" PLATE AS SHOWN IN DETAIL "A". ALIGN SIDES OF EXISTING 4'-0" SECTION WITH SIDES OF NEW 7'-10" SECTION AND WELD. AFTER WELDING WELD SHALL BE GROUND SMOOTH TO CONFORM TO O.D. OF PIPE.
O.D. OF EXISTING AND NEW PORTION OF STANCHIONS SHALL BE CLEANED FREE OF OIL OR GREASE PAINTED WITH ONE SHOP COAT OF GRAY OXIDE METAL PRIMER AND OR OTHER PAINT SYSTEM THAT MAY BE SPECIFIED IN THE CONTRACT DOCUMENTS.

SPECIFICATIONS FOR BALL SCREWS @ EACH BARRIER STATION *

- 2- SAGINAW RIGHT HAND BALL SCREWS 56" LONG WITH 3/8" KEYWAY DETAILED, SEE SECTION 1-8B, 1.500" BALL CIRCLE, .250" LEAD, FOR 3/32" BALL DIAMETER **
- 2- RIGHT HAND SAGINAW 5709586 BALL SCREW NUTS 1.500" .250 LEAD, 3/32" BALL DIAMETER, 2 CIRCUITS OF 2 1/2 TURNS SEE DETAIL FOR EXISTING MOUNTING **
- 2- STANDARD FLANGE ADAPTORS 5706754 **

* UNDER THIS PROJECT, BALL SCREWS WILL BE REPLACED AND STANCHIONS REVISED ONLY AT BARRIER STATIONS A, B, & C.

** BEFORE ORDERING, CONTRACTOR SHALL CONFIRM THAT ALL BALL SCREWS AT STATIONS A, B, & C ARE RIGHT HAND AND NOTIFY THE ENGINEER.

REV	DATE	DESCRIPTION	BY	APPROVED
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION				
JOB TITLE ELECTRICAL & RELATED MACHINERY REPAIRS BASCULE BRIDGE - HONOLULU, HAWAII				
SHEET TITLE MACHINERY DETAILS				
DESIGNED BY: H.S.	APPROVED BY:		SHEET	
DRAWN BY: F.M.	CHIEF, HARBORS DIVISION		8	
CHECKED BY: H.S.	JOB NUMBER		H.C.1343	
DATE: 7-27-78	SCALE:		OF 8 SHEETS	