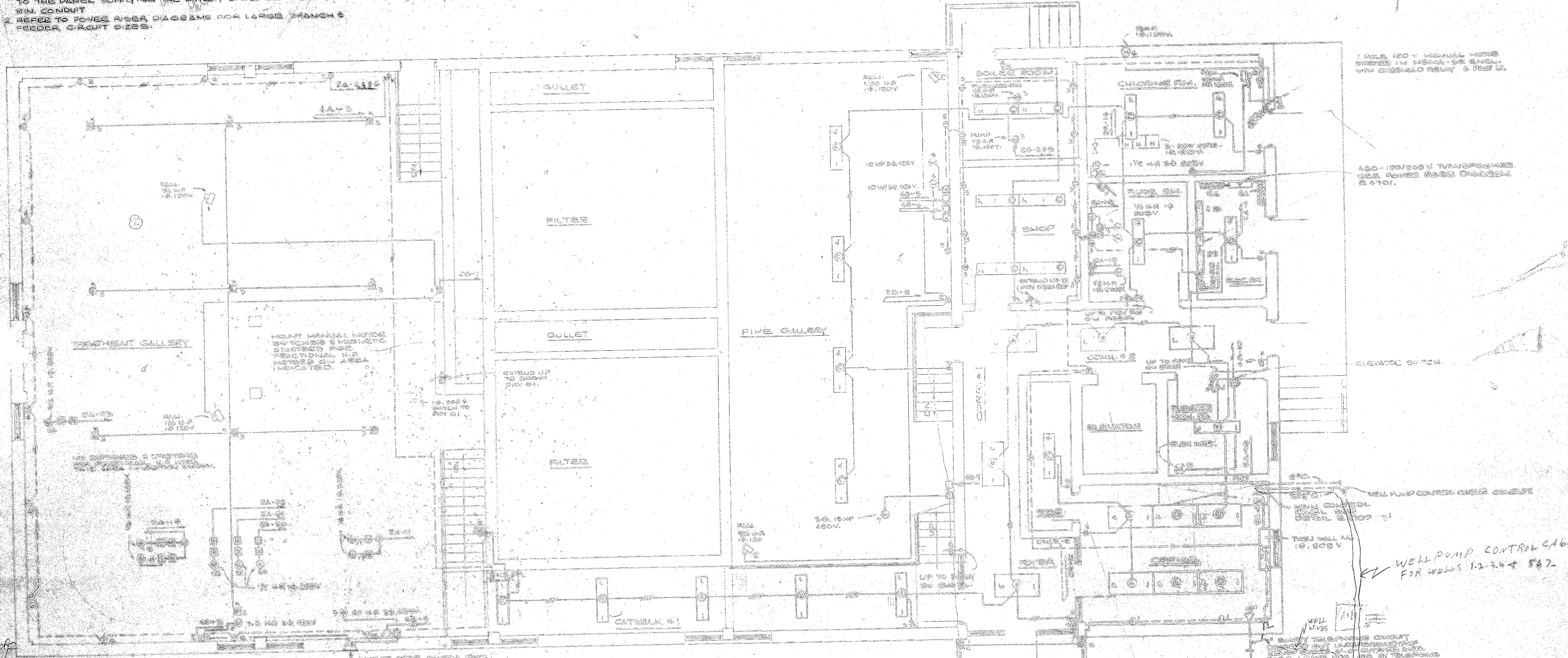


GENERAL NOTES:

1. SMALL BRANCH CIRCUIT CONDUCTORS & CONDUIT SHALL BE BEARING IN 3/4" CONDUIT. THAT PORTION OF ANY BRANCH CIRCUIT EXTENDING FROM THE FIRST DEVICE DOWN IN THE CIRCUIT TO THE PANEL SUPPLYING THE CIRCUIT SHALL BE 1" O.D. IN 3/4" RIGID CONDUIT.
 2. REFER TO POWER RIBBON DIAGRAMS FOR LARGE BRANCH & FEEDER CIRCUIT SIZES.

REVISIONS	DATE	APPROVED



1. 120 V MANUAL MOTOR ENERGIES TO BE PROVIDED BY THE SUPPLIER & NOT BY THE CONTRACTOR.

2. 120-120/277 V TRANSFORMER SEE POWER RIBBON DIAGRAM 2-4101.

WELL PUMP CONTROL CABLE FOR WELLS 1, 2, 3, 4 & 5.

CAUTION
 THIS IS A 480/277 VOLT ELECTRICAL SYSTEM. PERSONS NOT FAMILIAR WITH THIS TYPE OF SYSTEM SHOULD NOT ATTEMPT REPAIRS.

PROVIDE LOCAL AS ABOVE FOR EACH SWITCH, MOTOR FEED, SERVICE & PANEL. BLACK LETTERS ON YELLOW BACKGROUND.

E-4401 ELECTRICAL LIGHTING POWER & RECEPTACLE PLAN - 1ST FLOOR

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

E-4402 PANEL SCHEDULES

PANEL 2A1: 3Φ, 4 WIRE, 120/277 VOLT, 500 AMP, MAIN LINES ONLY, 225 AMP MAINS, CIG. EXG. TYPE, CIG. INTERRUPTER, 1 POLE, 250 AMP, 15,000 AMP SHALL BE CLASS 2B, 2 POLE, 250 AMP, 15,000 AMP, SHALL BE CLASS 2B.

PANEL 2A2: 3Φ, 4 WIRE, 120/277 VOLT, MAIN LINES ONLY, 100 AMP, 15,000 AMP, 1 POLE, 250 AMP, 15,000 AMP, 2 POLE, 250 AMP, 15,000 AMP, SHALL BE CLASS 2B.

PANEL 4B: 3Φ, 4 WIRE, 120/277 VOLT, 500 AMP, MAIN LINES ONLY, 225 AMP MAINS, CIG. EXG. TYPE, CIG. INTERRUPTER, 1 POLE, 250 AMP, 15,000 AMP, 2 POLE, 250 AMP, 15,000 AMP, SHALL BE CLASS 2B.

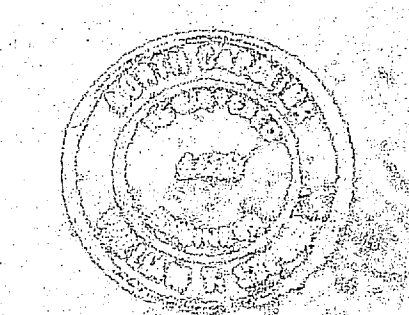
RECEPTACLE	TYPE	LOCATION	AMPS	VOLTS
RECEPT OFFICE CORR 2	15-A	224	15	120
RECEPT OFFICE CORR 2	15-A	225	15	120
RECEPT OFFICE CORR 2	15-A	226	15	120
SPACE		1		
RECEPT OFFICE FL	15-A	9	15	120
RECEPT OFFICE FL	15-A	10	15	120
SPACE		11		
CONTROL PANEL POWER	15-A	12	15	120
SPACE		13		
RECEPT OFFICE CORR 2	15-A	14	15	120
RECEPT OFFICE CORR 2	15-A	15	15	120
RECEPT OFFICE CORR 2	15-A	16	15	120
RECEPT OFFICE CORR 2	15-A	17	15	120
RECEPT OFFICE CORR 2	15-A	18	15	120
RECEPT OFFICE CORR 2	15-A	19	15	120
RECEPT OFFICE CORR 2	15-A	20	15	120
RECEPT OFFICE CORR 2	15-A	21	15	120
RECEPT OFFICE CORR 2	15-A	22	15	120
RECEPT OFFICE CORR 2	15-A	23	15	120
RECEPT OFFICE CORR 2	15-A	24	15	120
RECEPT OFFICE CORR 2	15-A	25	15	120
RECEPT OFFICE CORR 2	15-A	26	15	120
RECEPT OFFICE CORR 2	15-A	27	15	120
RECEPT OFFICE CORR 2	15-A	28	15	120
RECEPT OFFICE CORR 2	15-A	29	15	120
RECEPT OFFICE CORR 2	15-A	30	15	120

RECEPTACLE	TYPE	LOCATION	AMPS	VOLTS
RECEPT TREAT GALLERY	15-A	1	15	120
RECEPT TREAT GALLERY	15-A	2	15	120
RECEPT TREAT GALLERY	15-A	3	15	120
SPACE		4		
RECEPT TREAT GALLERY	15-A	5	15	120
RECEPT TREAT GALLERY	15-A	6	15	120
RECEPT TREAT GALLERY	15-A	7	15	120
RECEPT TREAT GALLERY	15-A	8	15	120
RECEPT TREAT GALLERY	15-A	9	15	120
RECEPT TREAT GALLERY	15-A	10	15	120
RECEPT TREAT GALLERY	15-A	11	15	120
RECEPT TREAT GALLERY	15-A	12	15	120
RECEPT TREAT GALLERY	15-A	13	15	120
RECEPT TREAT GALLERY	15-A	14	15	120
RECEPT TREAT GALLERY	15-A	15	15	120
RECEPT TREAT GALLERY	15-A	16	15	120
RECEPT TREAT GALLERY	15-A	17	15	120
RECEPT TREAT GALLERY	15-A	18	15	120
RECEPT TREAT GALLERY	15-A	19	15	120
RECEPT TREAT GALLERY	15-A	20	15	120
RECEPT TREAT GALLERY	15-A	21	15	120
RECEPT TREAT GALLERY	15-A	22	15	120
RECEPT TREAT GALLERY	15-A	23	15	120
RECEPT TREAT GALLERY	15-A	24	15	120
RECEPT TREAT GALLERY	15-A	25	15	120
RECEPT TREAT GALLERY	15-A	26	15	120
RECEPT TREAT GALLERY	15-A	27	15	120
RECEPT TREAT GALLERY	15-A	28	15	120
RECEPT TREAT GALLERY	15-A	29	15	120
RECEPT TREAT GALLERY	15-A	30	15	120

RECEPTACLE	TYPE	LOCATION	AMPS	VOLTS
RECEPT OFFICE CORR 2	15-A	31	15	120
RECEPT OFFICE CORR 2	15-A	32	15	120
RECEPT OFFICE CORR 2	15-A	33	15	120
RECEPT OFFICE CORR 2	15-A	34	15	120
RECEPT OFFICE CORR 2	15-A	35	15	120
RECEPT OFFICE CORR 2	15-A	36	15	120
RECEPT OFFICE CORR 2	15-A	37	15	120
RECEPT OFFICE CORR 2	15-A	38	15	120
RECEPT OFFICE CORR 2	15-A	39	15	120
RECEPT OFFICE CORR 2	15-A	40	15	120
RECEPT OFFICE CORR 2	15-A	41	15	120
RECEPT OFFICE CORR 2	15-A	42	15	120
RECEPT OFFICE CORR 2	15-A	43	15	120
RECEPT OFFICE CORR 2	15-A	44	15	120
RECEPT OFFICE CORR 2	15-A	45	15	120
RECEPT OFFICE CORR 2	15-A	46	15	120
RECEPT OFFICE CORR 2	15-A	47	15	120
RECEPT OFFICE CORR 2	15-A	48	15	120
RECEPT OFFICE CORR 2	15-A	49	15	120
RECEPT OFFICE CORR 2	15-A	50	15	120

E-4403 LIGHTING FIXTURE SCHEDULE

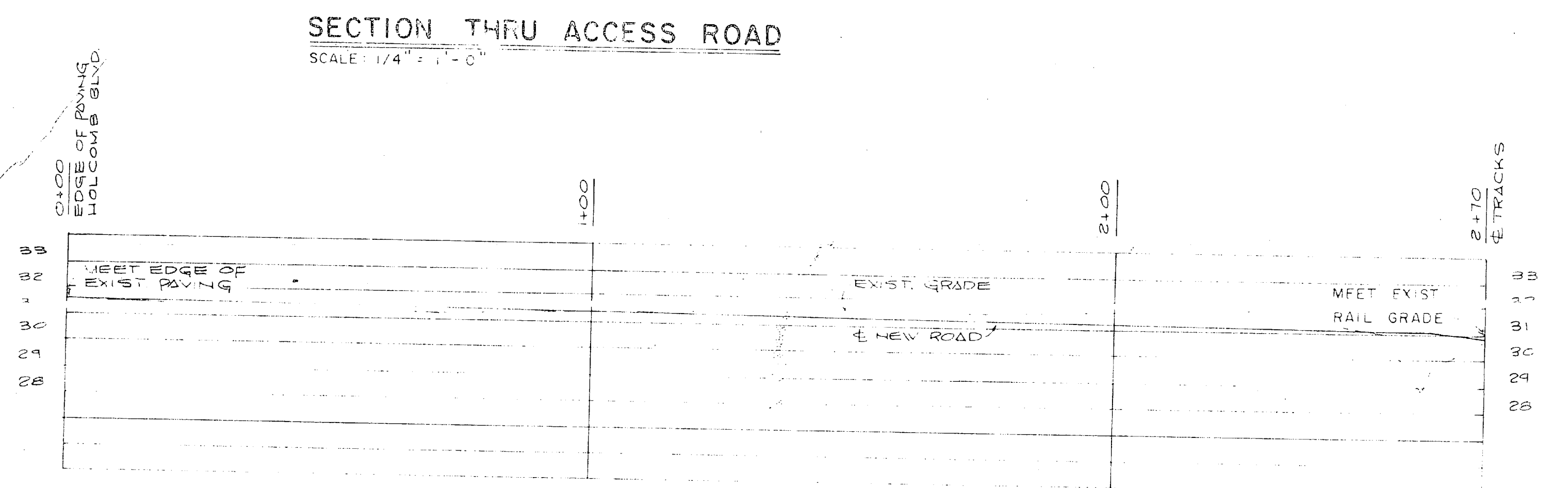
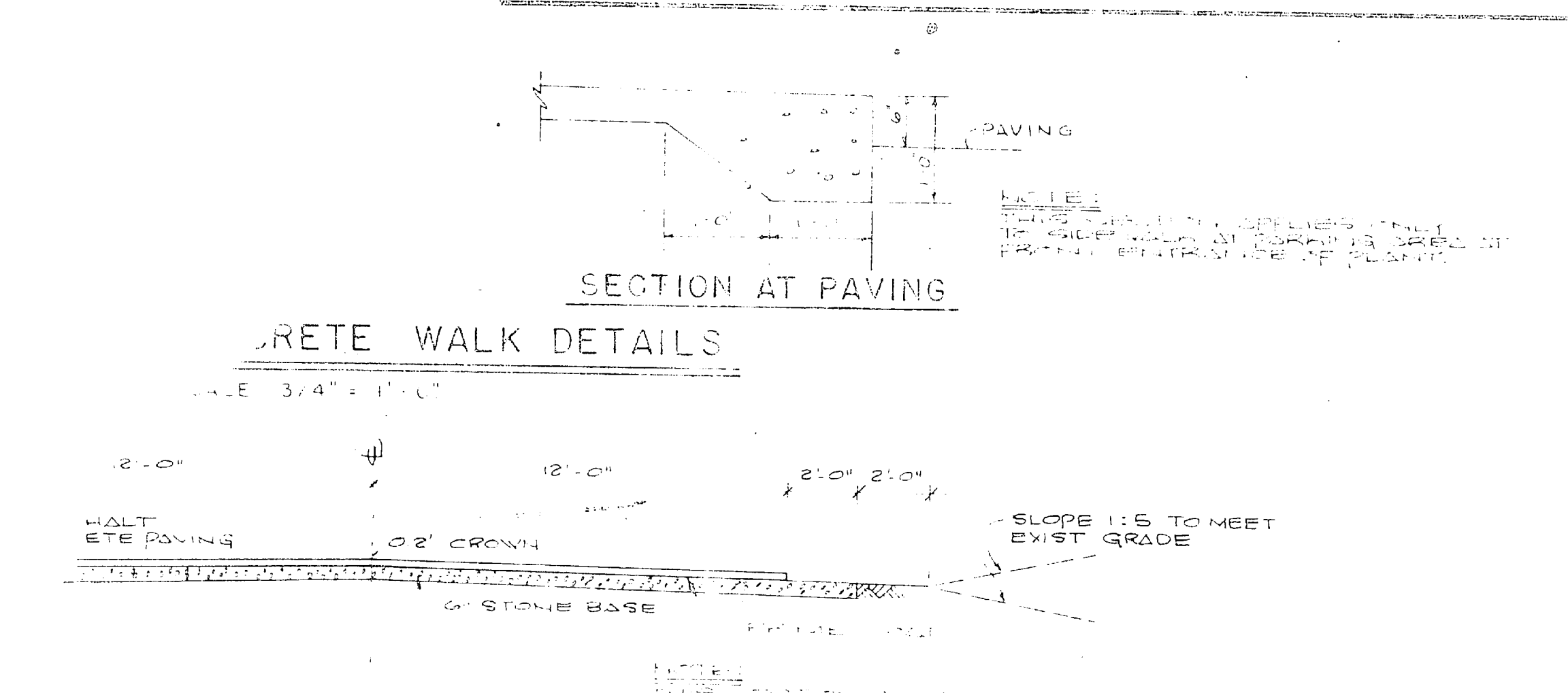
FIXTURE SYMBOL	TYPE	PLATE TYPE	NUMBER & TYPE LAMPS	VOLTAGE	INSULATING
⊙	15-C	TYPE 2	4-40W T8/2'S	277V	RECESSED
⊙	15-C	TYPE 2 w TWO LAMPS	2-40W T8/2'S	277V	RECESSED
⊙	15-F	TYPE 1	2-40W T8/2'S	277V	RECESSED
⊙	15-C	TYPE 3	1-400 W/1	277V	RECESSED
⊙	15-J		1-200 W/1	120V	WALL MTD
⊙	15-I-2		1-200 W/1	120V	RECESSED
⊙	15-J		2-40W T8/2'S	277V	WALL MTD
⊙	15-F-1		2-40W T8/2'S	120V	RECESSED
⊙	15-K		2-150 W/2'S	120V	RECESSED



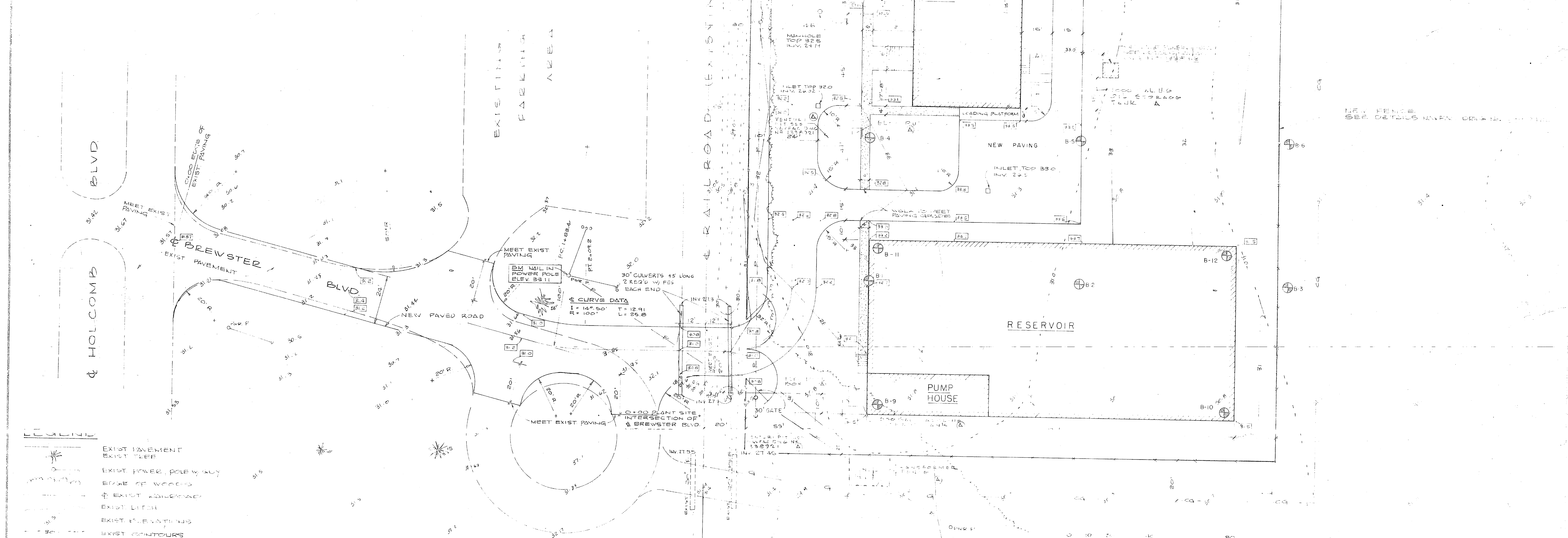
NEW JERSEY STATE ENGINEER
 BOARD OF ENGINEERS
 ATLANTIC DIVISION
 WATER TREATMENT PLANT
 DISTRIBUTION
 1ST FLOOR
 ELECTRICAL



REVISIONS			
SYM	DESCRIPTION	DATE	APPR
A	ADD NEW PAVING TO NEW CONCRETE WALK		



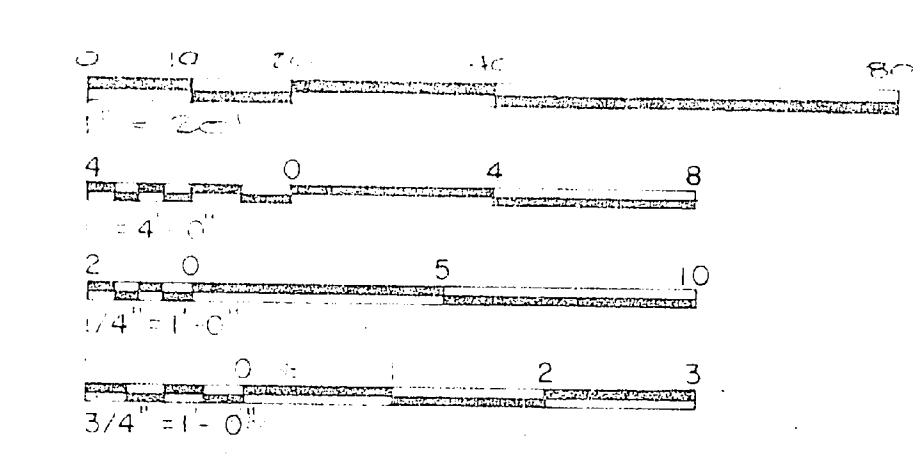
PROFILE NEW ACCESS ROAD - BREWSTER BLVD.
 SCALES: 1" = 30' HORIZONTAL
 1" = 4' VERTICAL



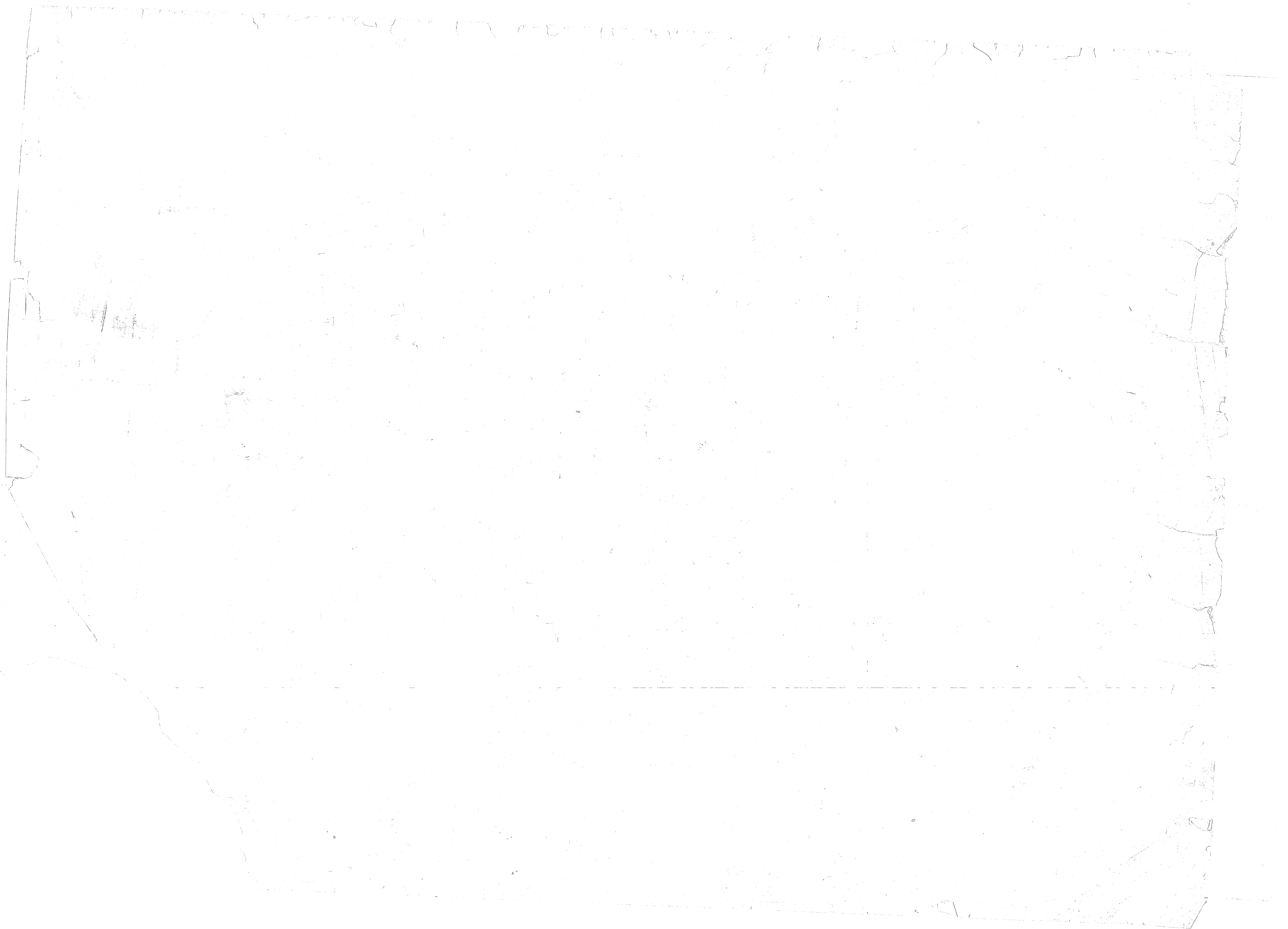
LEGEND

	EXIST PAVEMENT
	EXIST CURB
	EXIST POWER POLE ALLEY
	EDGE OF WOODS
	EXIST MANHOLE
	EXIST LATCH
	EXIST ELEVATIONS
	EXIST CONTOURS
	NEW SPOT ELEVATIONS
	FINISH CONTOURS
	NEW CONCRETE WALK
	NEW FENCE W/GATE
	CLEARING LIMIT
	TEST BORING LOCATION
	GRASSING LIMIT
	CLEARING & GRASSING LIMIT

SITE PLAN

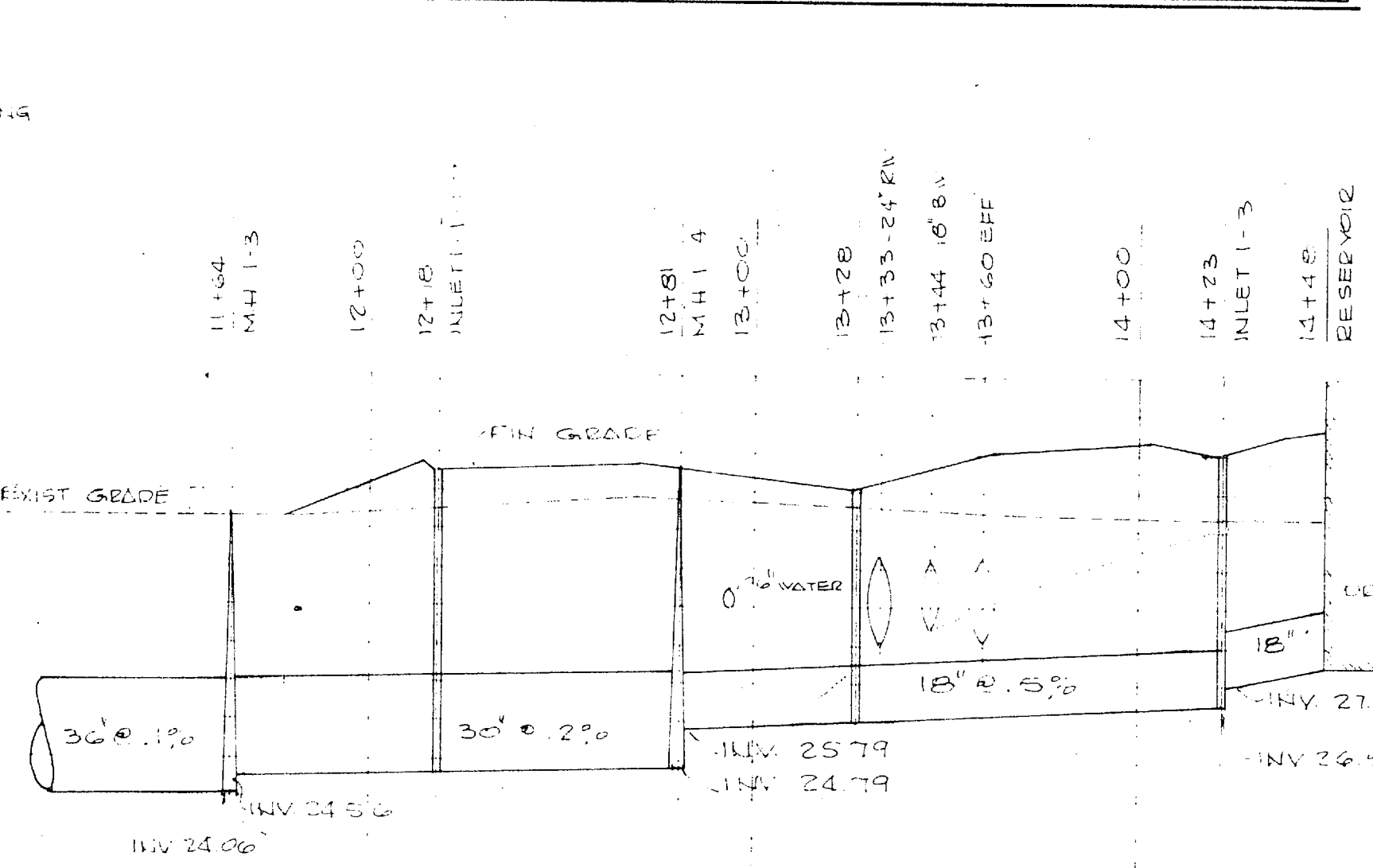


HENRY JON OSMEN & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, N.C.		ATLANTIC DIVISION	
MR. J. R. B.	MR. A. W.	WATER TREATMENT PLANTS, WELLS AND DISTRIBUTION SYSTEM	
MR. H. D.	MR. R. B.	CAMP LEJEUNE, NORTH CAROLINA	
PROJECT NO. 1338891		TREATMENT PLANT SITE PLANS	
APPROVED:	DATE:	F 80091	1338891
AS SHOWN		AS SHOWN	



CURVE NO.	PI	PC	PT	LC	EA	EB	EC	EA	EB	EC
1	1178.24	1178.24	1178.24	1178.24	1178.24	1178.24	1178.24	1178.24	1178.24	1178.24
2	1178.24	1178.24	1178.24	1178.24	1178.24	1178.24	1178.24	1178.24	1178.24	1178.24

PROFILE NEW RAIL SIDING

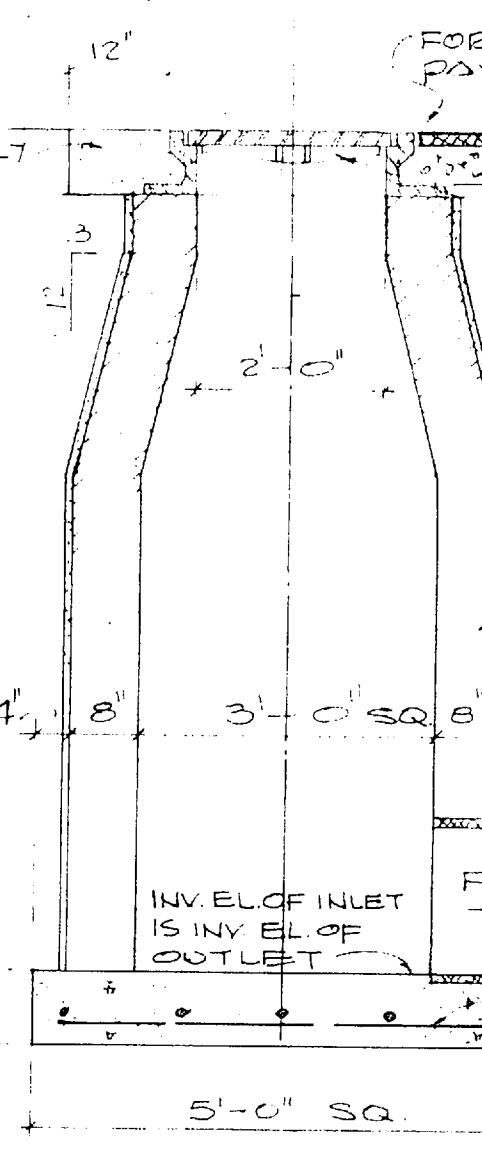


PROFILE DRAIN LINE #1

1" = 40' HORIZ
1" = 4' VERT

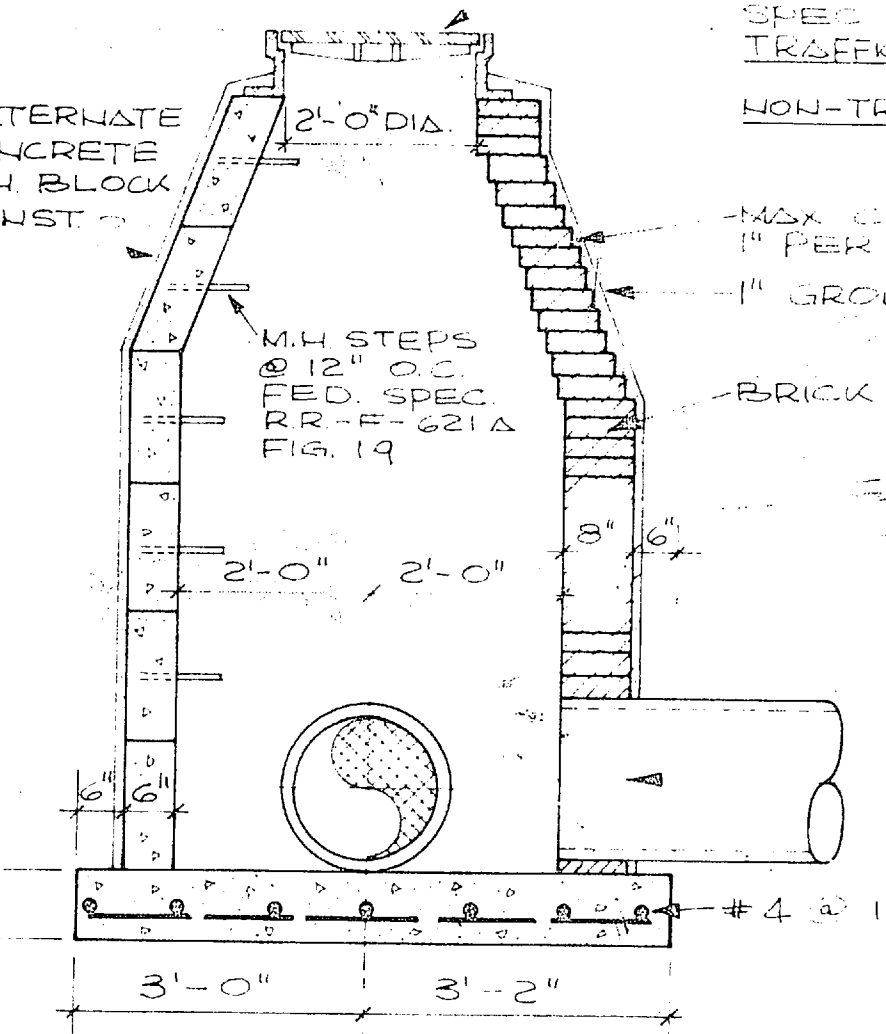
PROFILE DRAIN LINE #2

1" = 40' HORIZ
1" = 4' VERT



DETAIL INLET

1/2" = 1'-0"

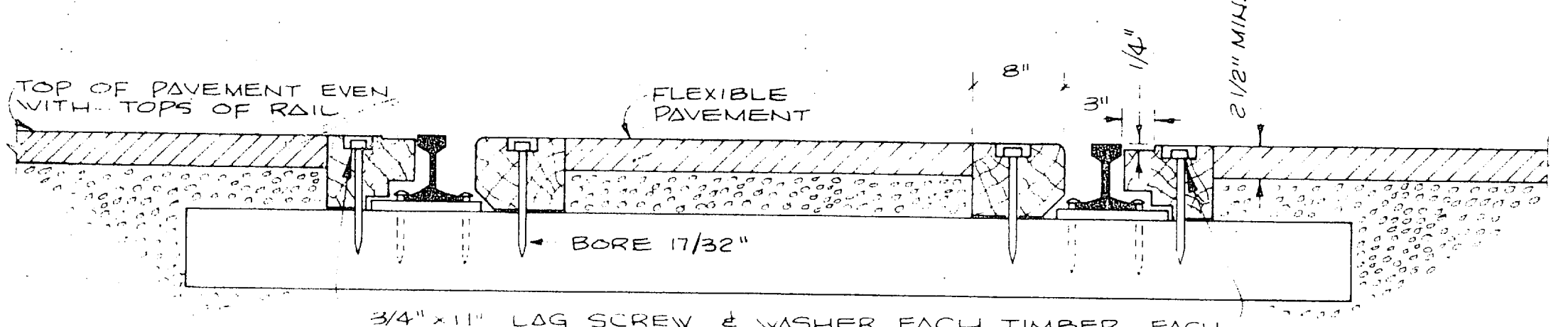


DETAIL MANHOLE

1/2" = 1'-0"

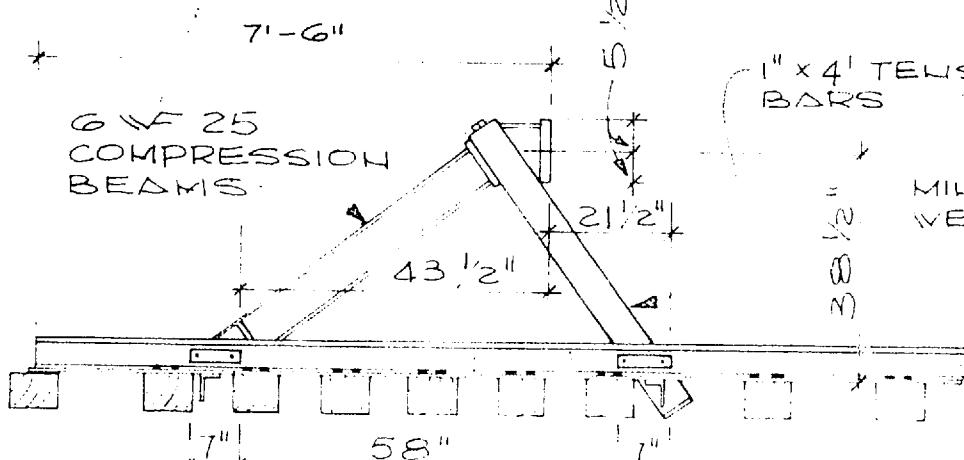
PLAN - NEW RAIL SIDING

SCALE: 1" = 40'



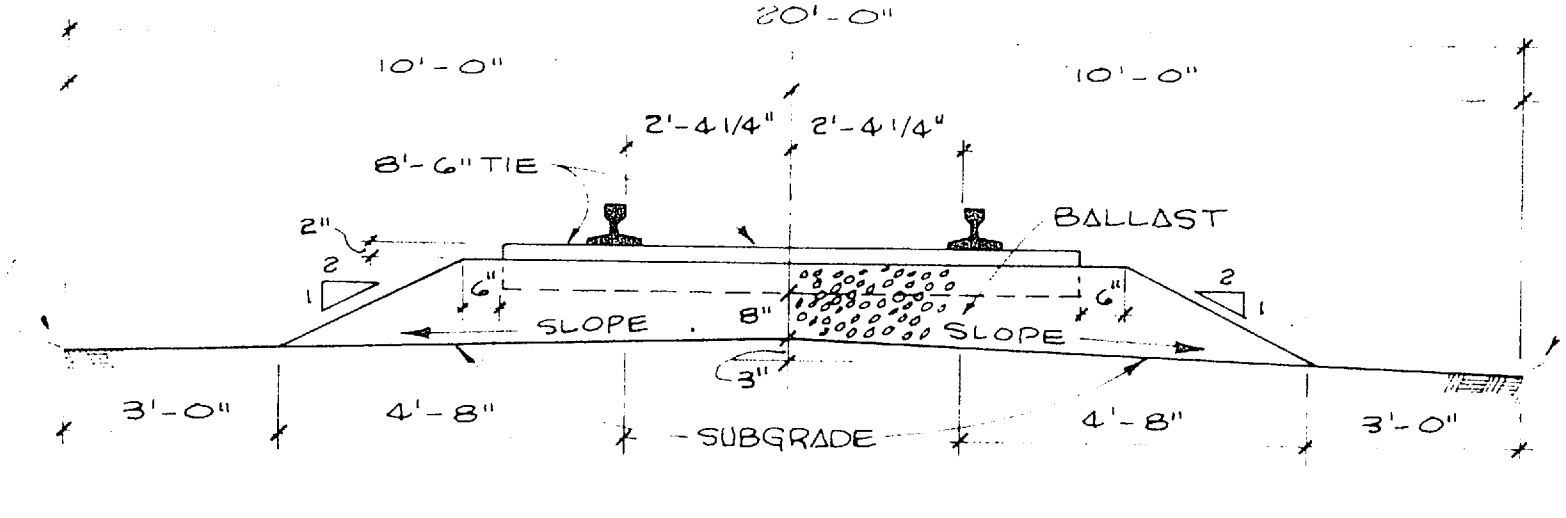
SECTION THRU RAILROAD IN PAVED AREA

SCALE: 1" = 1'-0"



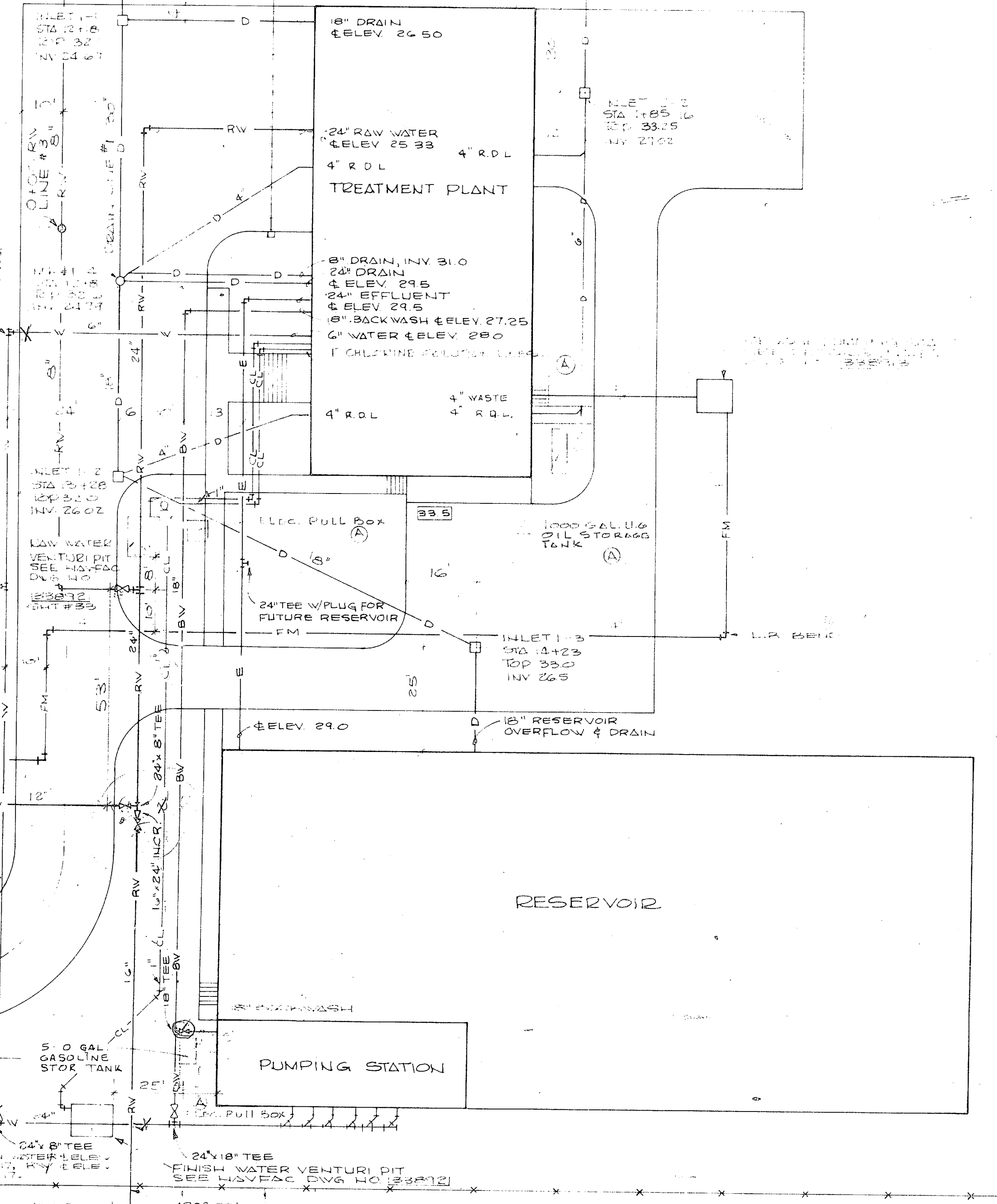
DETAIL - BUMPING POST

NO SCALE

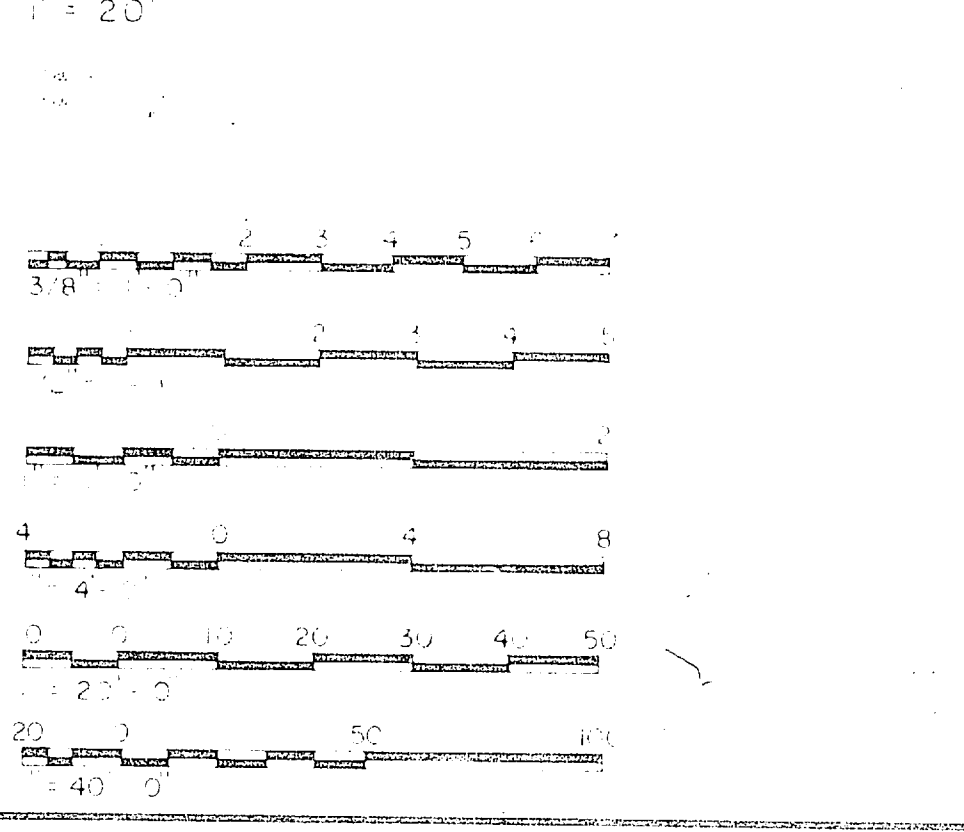


TYPICAL SECTION THRU TRACK

SCALE: 3/8" = 1'-0"



SITE PIPING PLAN

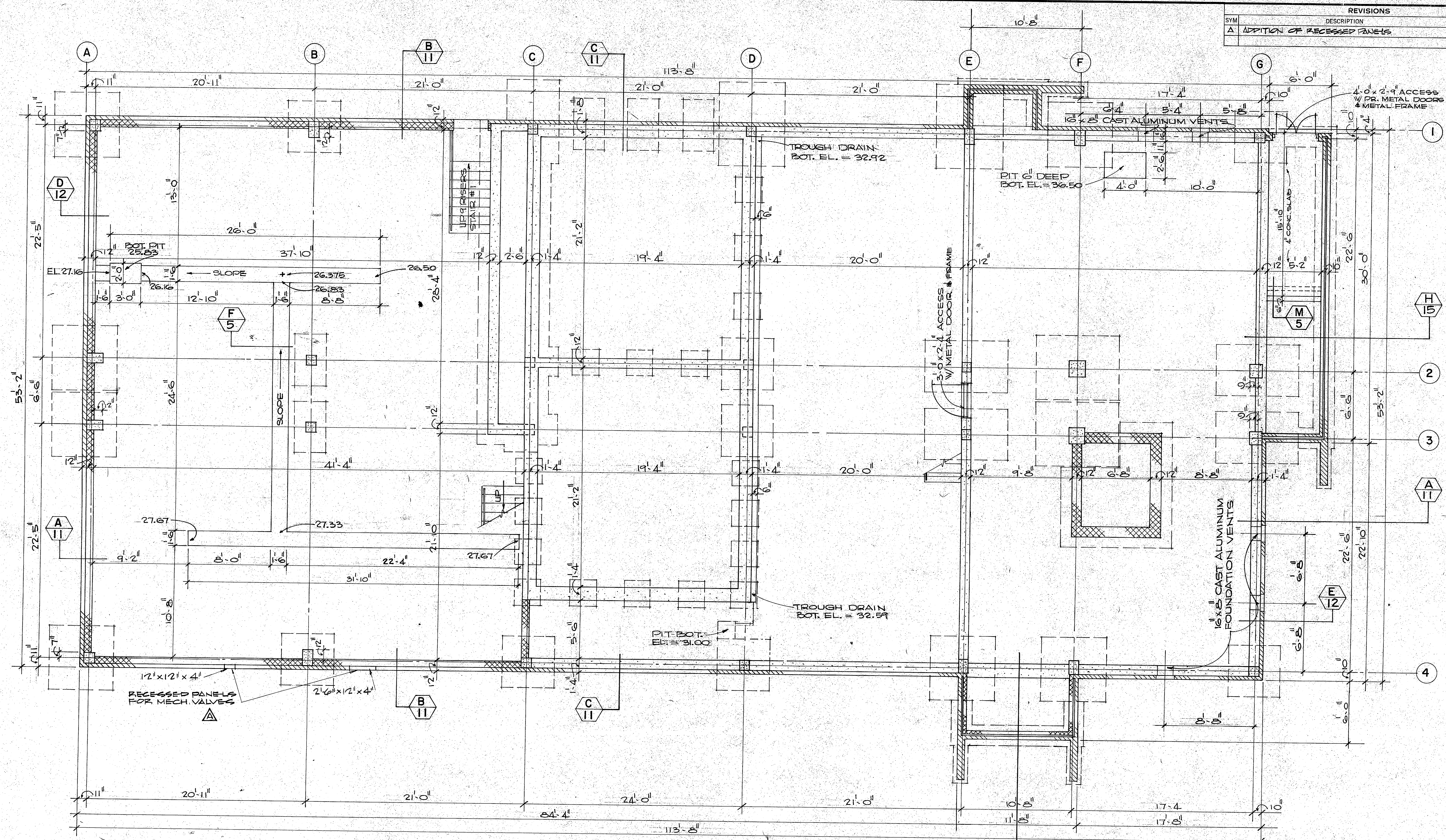


LEGEND

— RW —	NEW RAW WATER LINE
— BW —	NEW BACKWASH LINE
— E —	NEW EFFLUENT LINE
— D —	NEW DRAIN LINE
— W —	NEW 4.5" WATER LINE
— W —	NEW 12" WATER LINE
— F —	GATE VALVE W BOX

HENRY VON OESSEN & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, N. C.		DEPARTMENT OF THE NAVY ATLANTIC DIVISION NAVAL STATION	
DES. JRB	CHK. DM	WATER TREATMENT PLANTS, WELLS AND DISTRIBUTION SYSTEM	
SUBMITTED BY: JRB	DATE: 5/15/20	CAMP LEJEUNE, NORTH CAROLINA	
APPROVED: [Signature]		SITE PIPING PLAN, RAILROAD & DETAILS	
PROJECT NO. 80091	DRAWING NO. 1338892		

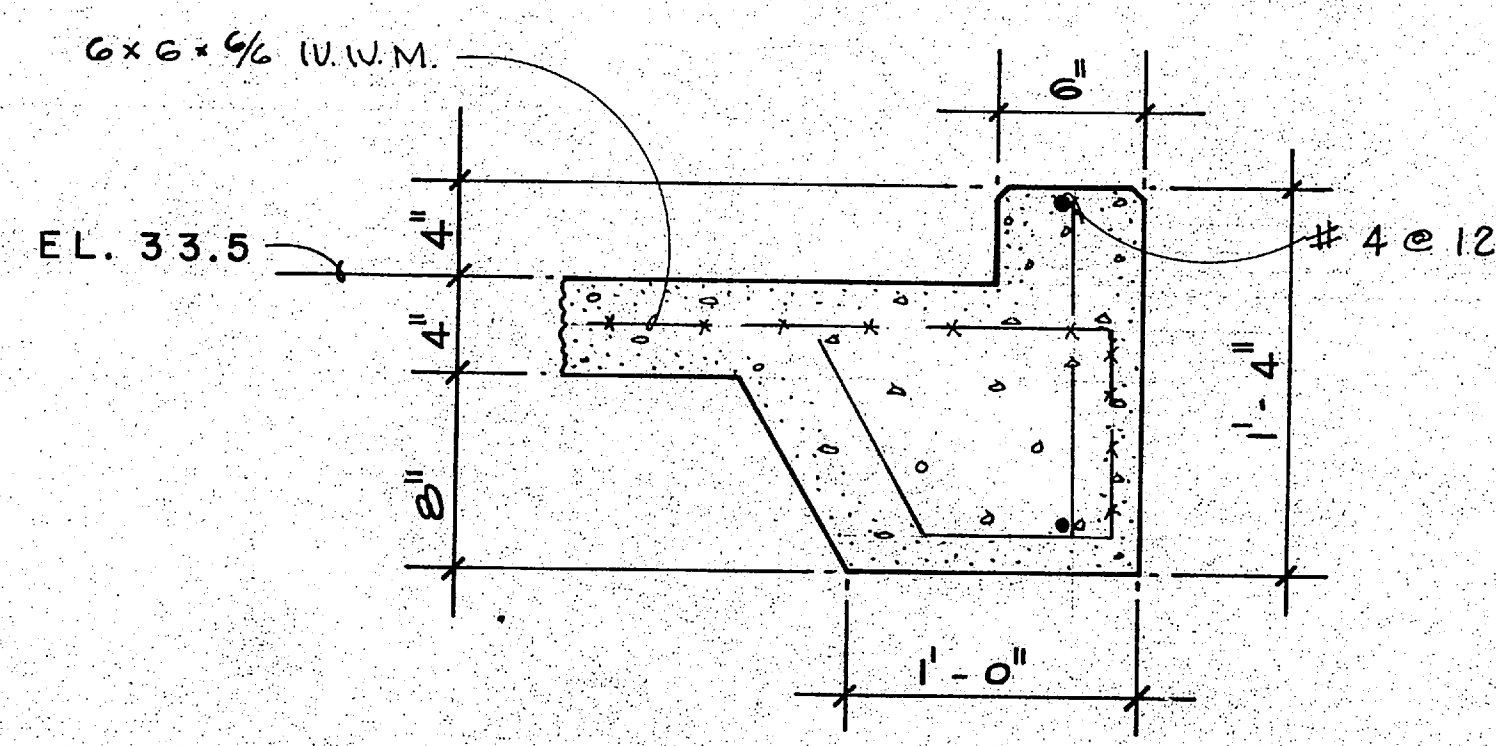
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
A	ADDITION OF RECESSED PANELS	8/1/70	ETB



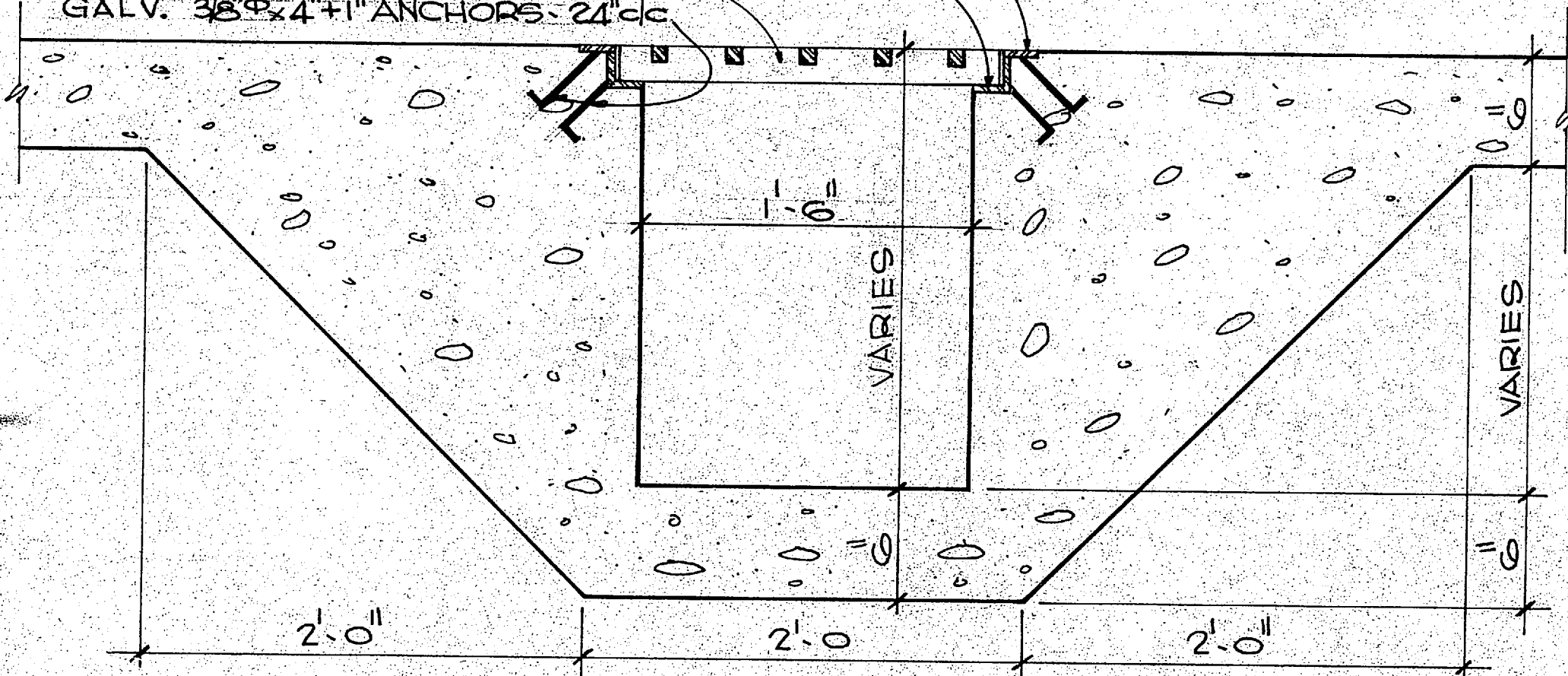
FOUNDATION PLAN AT EL. 34.5

SCALE 1/4" = 1'-0"

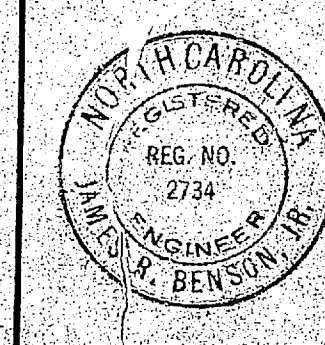
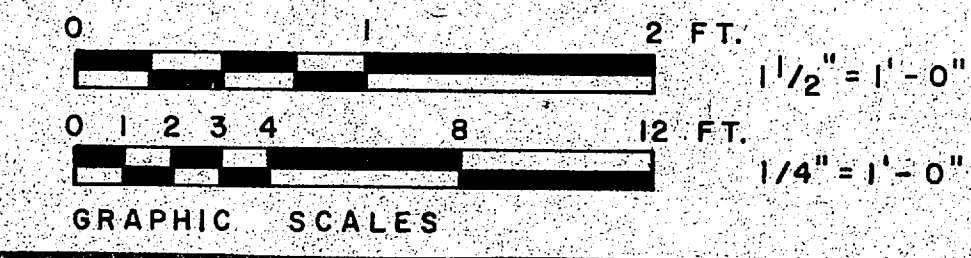
- GALV. STEEL FLANGE - 1/4" x 2"
- GALV. STEEL ANGLE - 1 3/8" x 1 3/8" x 1/4"
- GALV. STEEL GRATING - 1 1/2"
- GALV. 3/8" x 4" x 1" ANCHORS - 24" dc



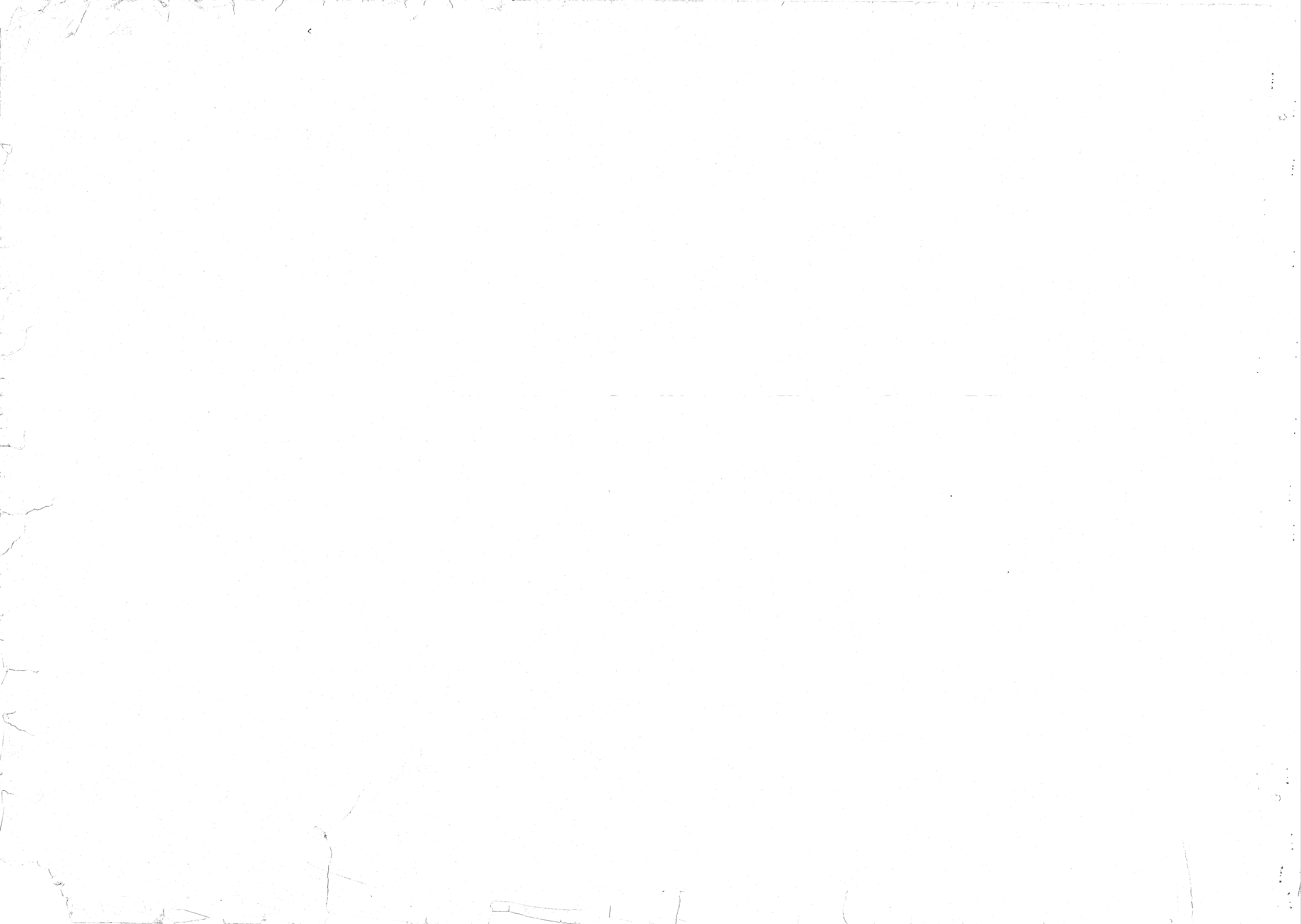
SECTION M 5
SCALE 1 1/2" = 1'-0"



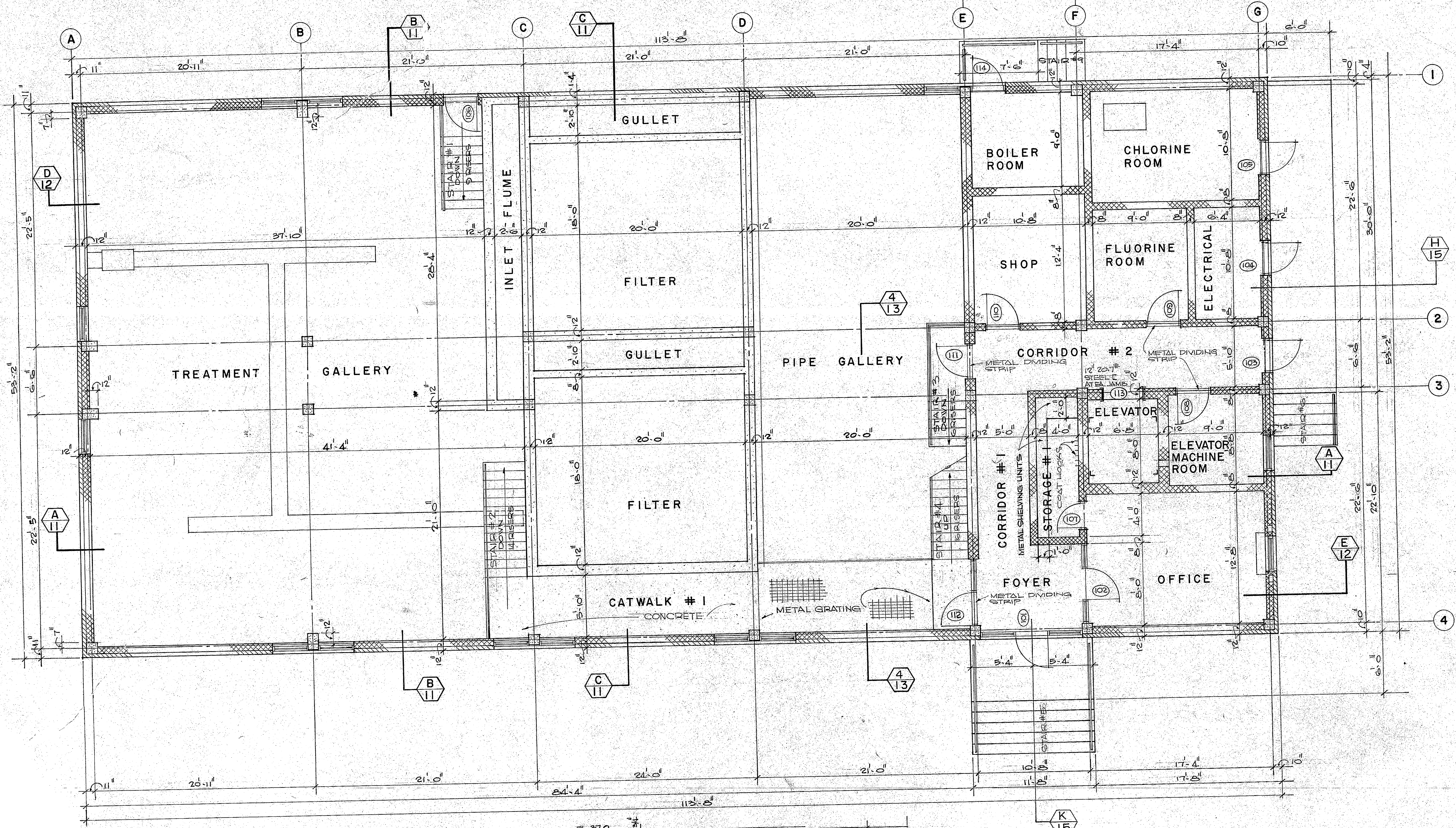
SECTION F 5
SCALE 1 1/2" = 1'-0"



HENRY VON OESSEN & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, N. C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION NORFOLK, VA.	
DES. 100	DR. JW	CHK. JBO	
SUPPLY. 1100		CR. ENGR. JEB	
SUBMITTED BY William P. 9/25/70		DATE	
TEAM MEMBER		REV.	
APPROVED	DATE	CODE/IDENT. NO.	NAVAFAC DRAWING NO.
PUBLIC WORKS OFFICER F 80091		1338893	
PROJECT WATER TREATMENT PLANTS, WELLS AND DISTRIBUTION SYSTEM		NAVAFAC DRAWING NO. 1338893	
CAMP LEJEUNE, NORTH CAROLINA		CONTRACT NO. 70-70-B-0939	
TREATMENT PLANT FOUNDATION PLAN & SECTION		SCALE AS SHOWN SPEC. 05-70-0939	
SHEET 5 OF 5		EFD. (REV. NO.) 8489	

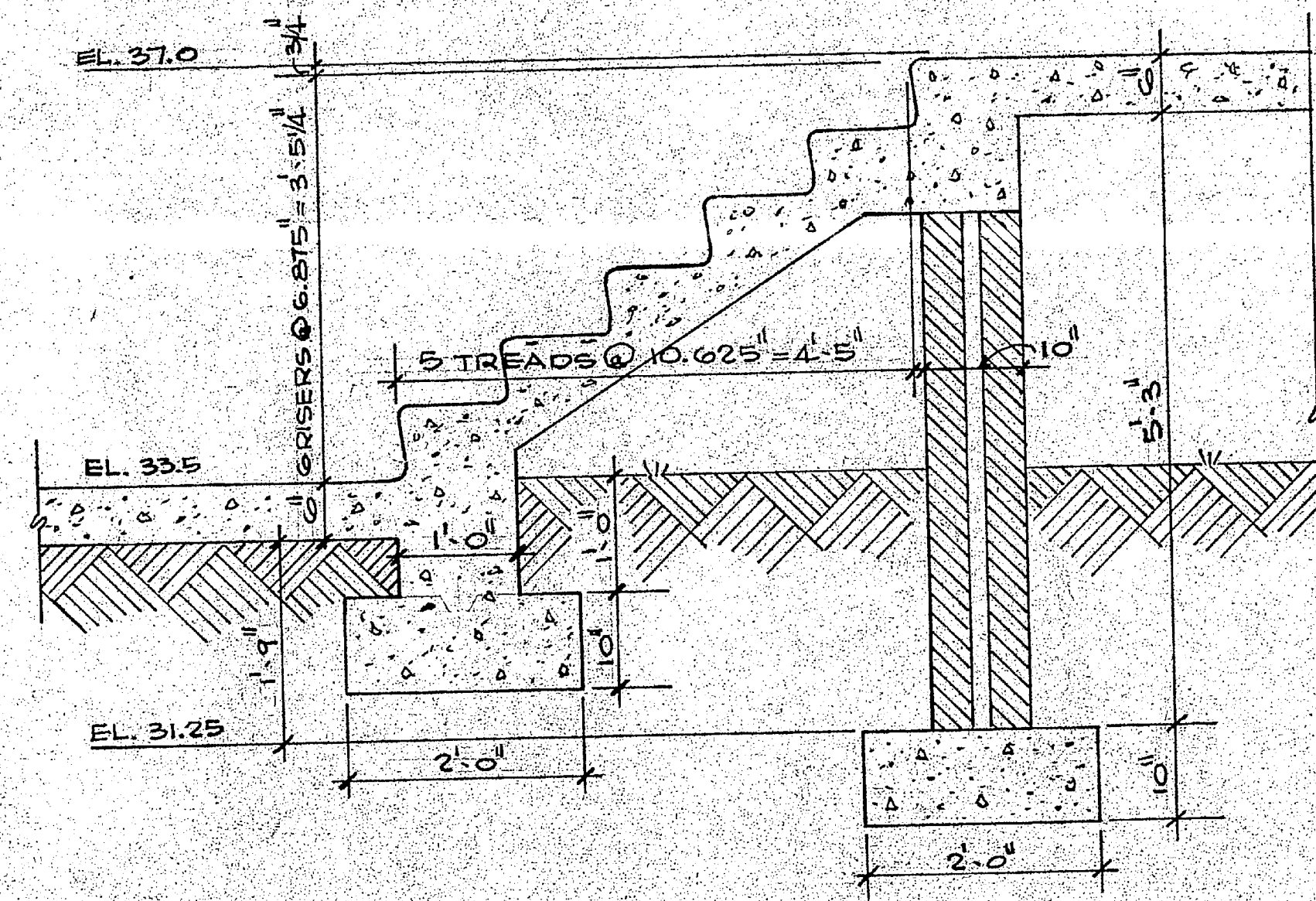


REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED

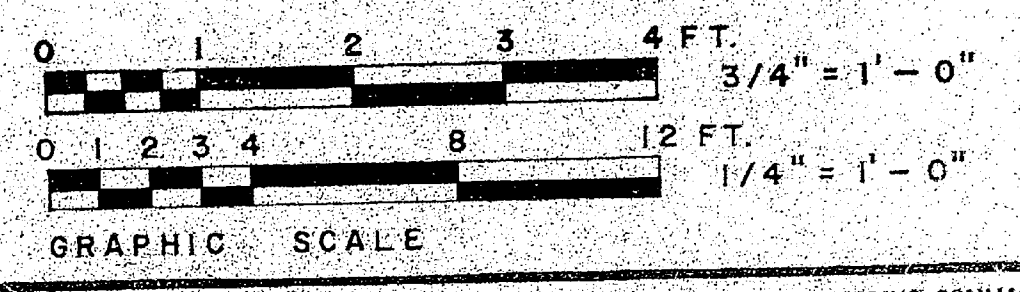


FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

NOTE
FOR WALL & SLAB CONSTRUCTION JOINTS
SEE STRUCTURAL DETAILS.



STAIR # 5, #6 & #9
SCALE: 3/4" = 1'-0"

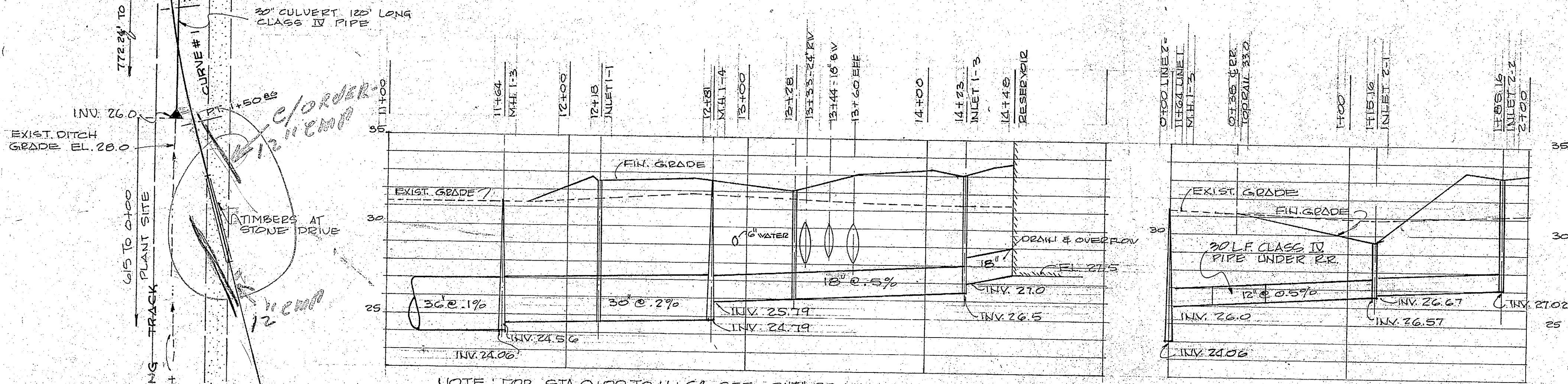
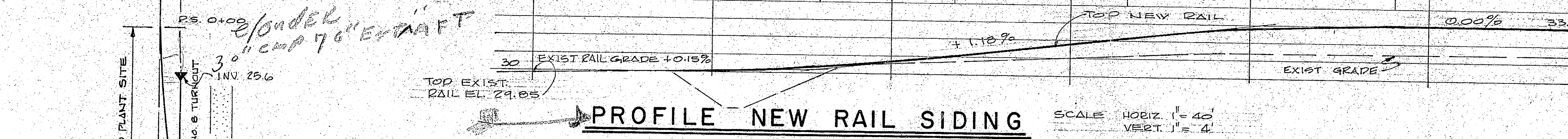


	HENRY VON OESSEN & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, N. C.	DEPARTMENT OF THE NAVY NAVAL STATION ATLANTIC DIVISION NORFOLK, VA.
	DESIGNED BY: [Signature] DRAWN BY: [Signature] CHECKED BY: [Signature] DATE: 4/27/50	WATER TREATMENT PLANTS, WELLS AND DISTRIBUTION SYSTEM CAMP LEJEUNE, NORTH CAROLINA
	APPROVED: [Signature] PUBLIC WORKS OFFICER	TREATMENT PLANT FIRST FLOOR PLAN
	F 80091	1338894



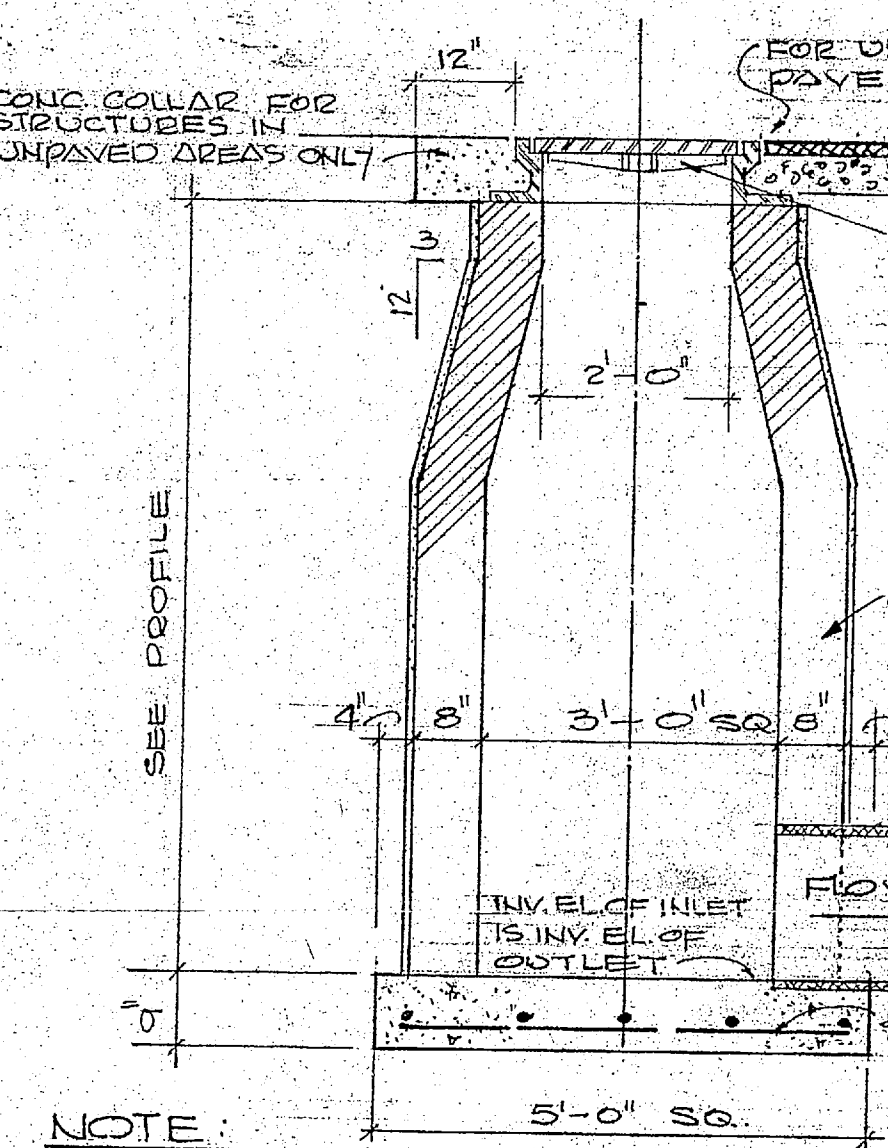
CURVE DATA	CURVE NO. 1	CURVE NO. 2
D	12°	12°
R	7°-50'-50"	15°-0'
T	478.34'	478.34'
L	32.73'	62.97'

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
(A)	ELECTRIC BULK BOXES, FUEL OIL TANKS, TRANSFORMER, 5' FRAMES, STEPS AT REAR OF BUILDING.	2/24/70	J.R.B.

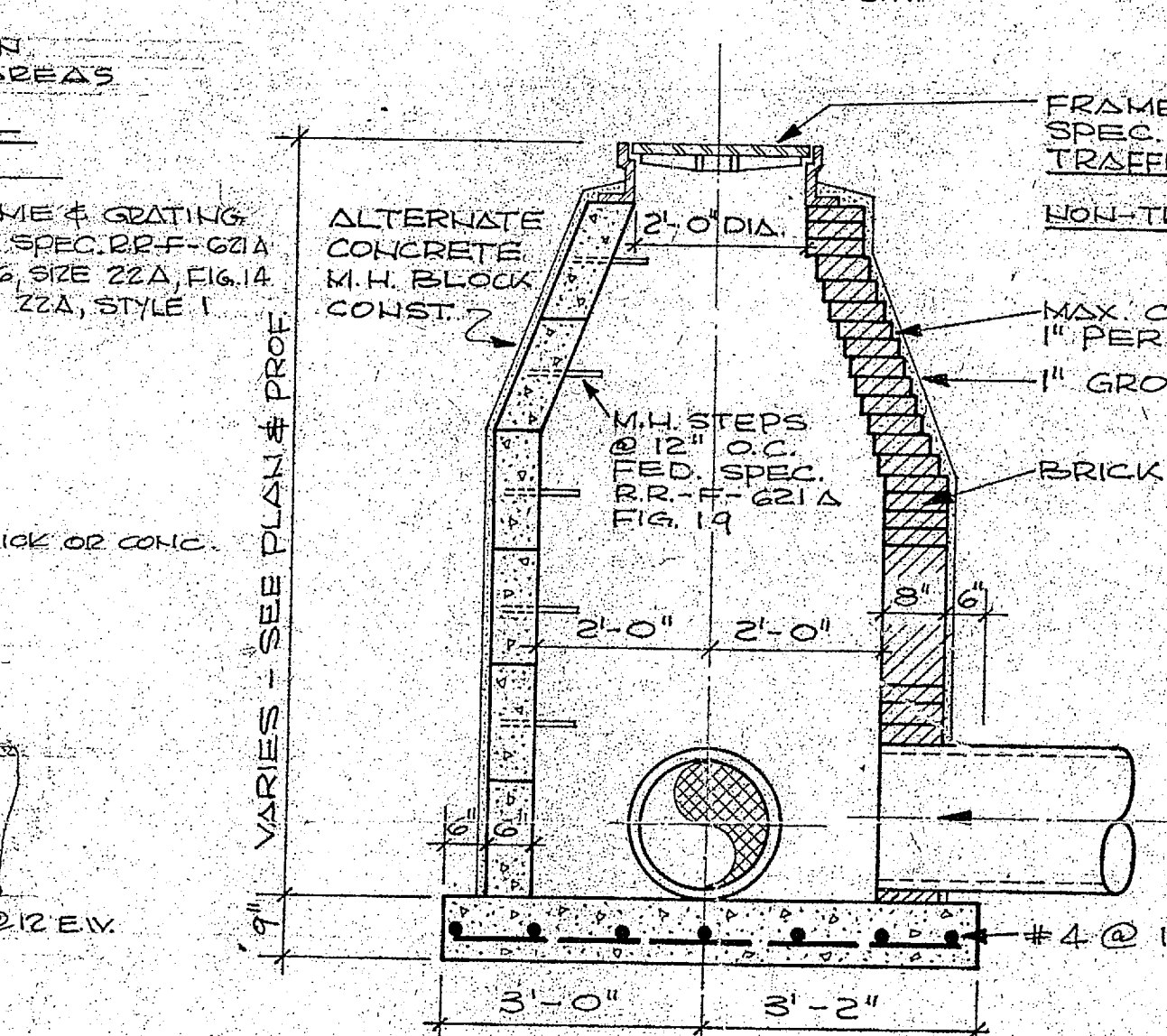


PROFILE DRAIN LINE #1
1" = 40' HORIZ.
1" = 4' VERT.

PROFILE DRAIN LINE #2
1" = 40' HORIZ.
1" = 4' VERT.

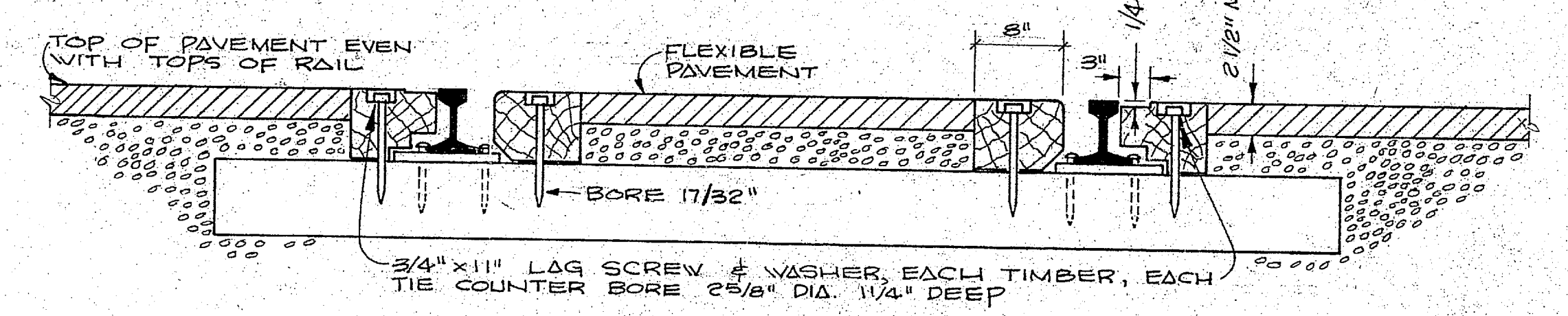


DETAIL INLET
1/2" = 1'-0"

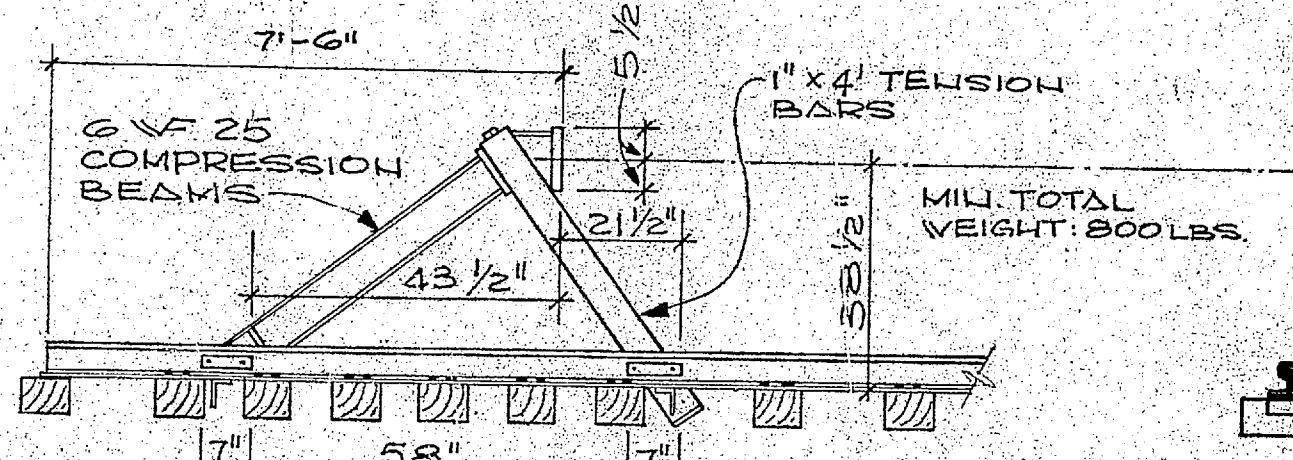


DETAIL MANHOLE
1/2" = 1'-0"

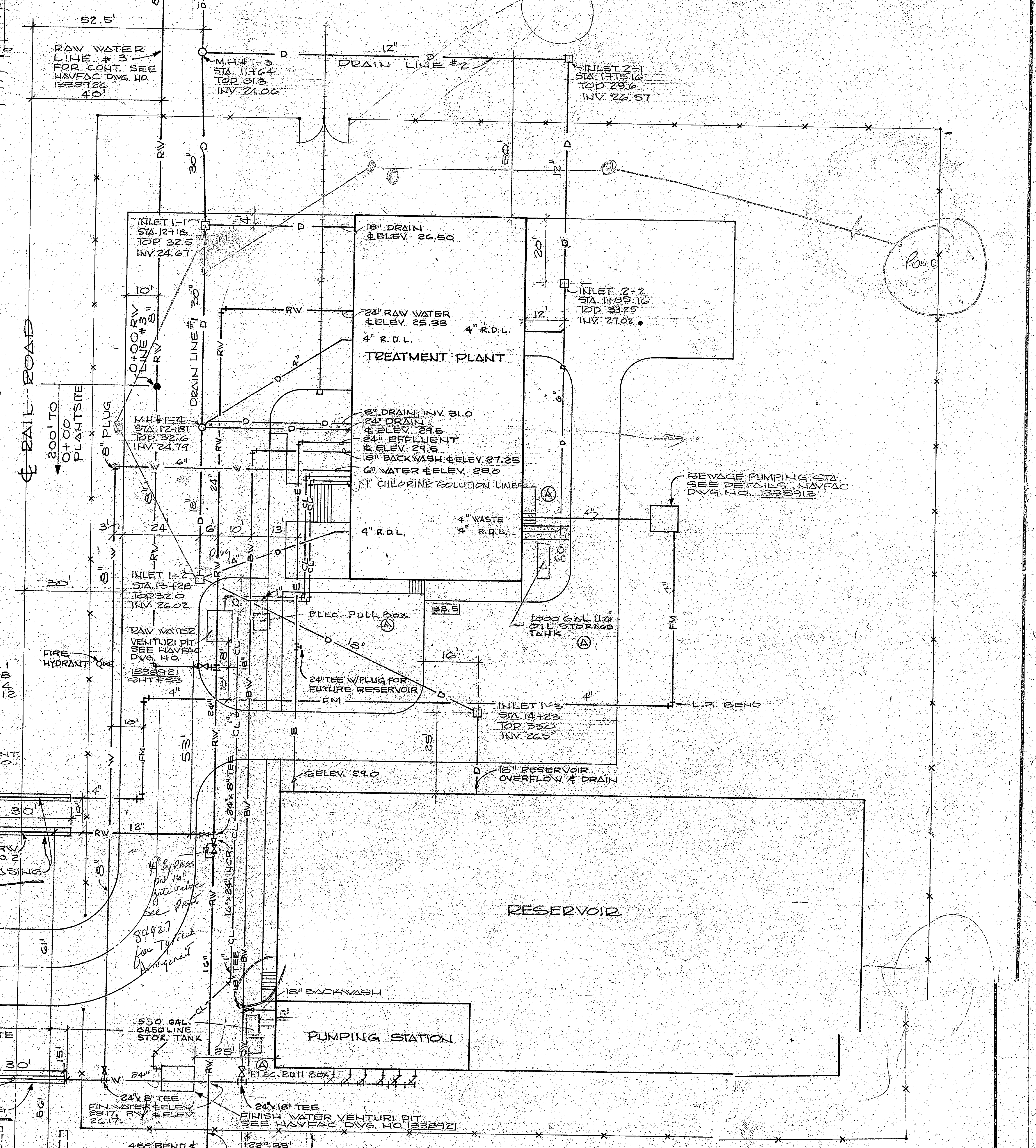
PLAN - NEW RAIL SIDING
SCALE: 1" = 40'



SECTION THRU RAILROAD IN PAVED AREA
SCALE: 1" = 1'-0"

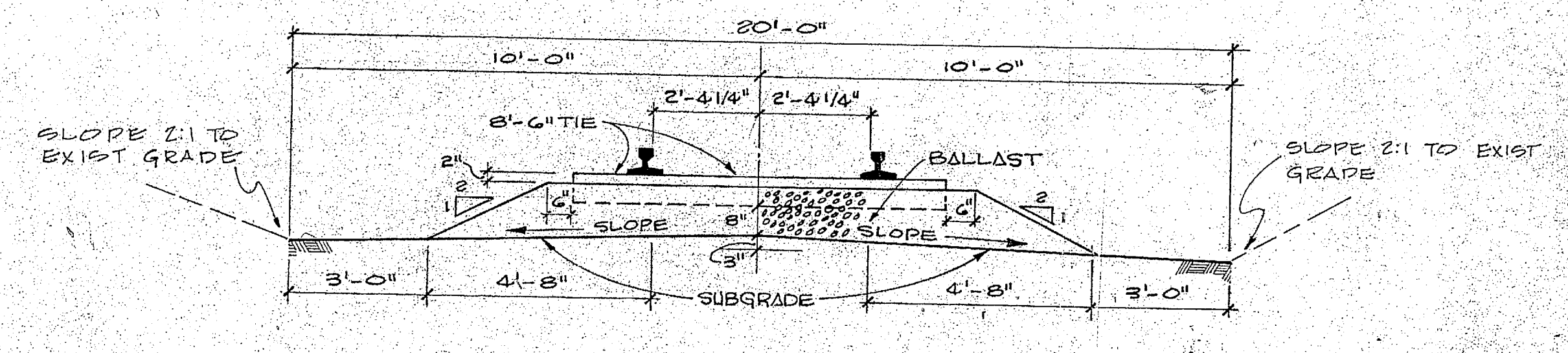


DETAIL - BUMPING POST
NO SCALE

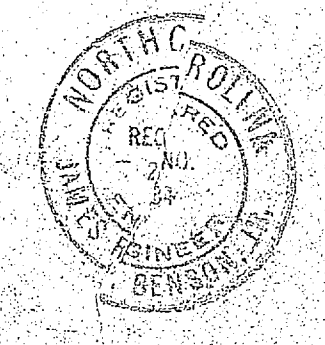
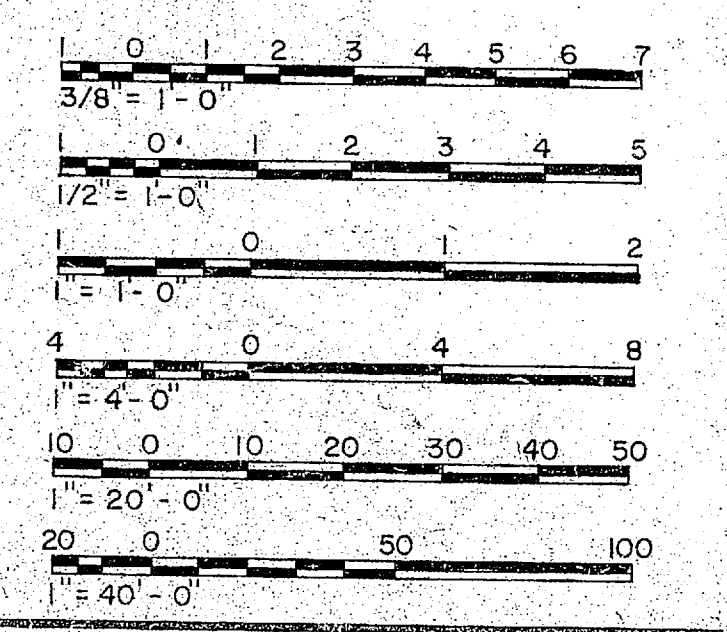


SITE PIPING PLAN
1" = 20'

- LEGEND**
- RW — NEW R WATER LINE
 - BW — NEW B WASH LINE
 - E — NEW E FFLUENT LINE
 - D — NEW D LINE
 - W — NEW F H WATER LINE
 - CL — NEW CLORINE SOLUTION LINE
 - G — GATE VALVE / BOX



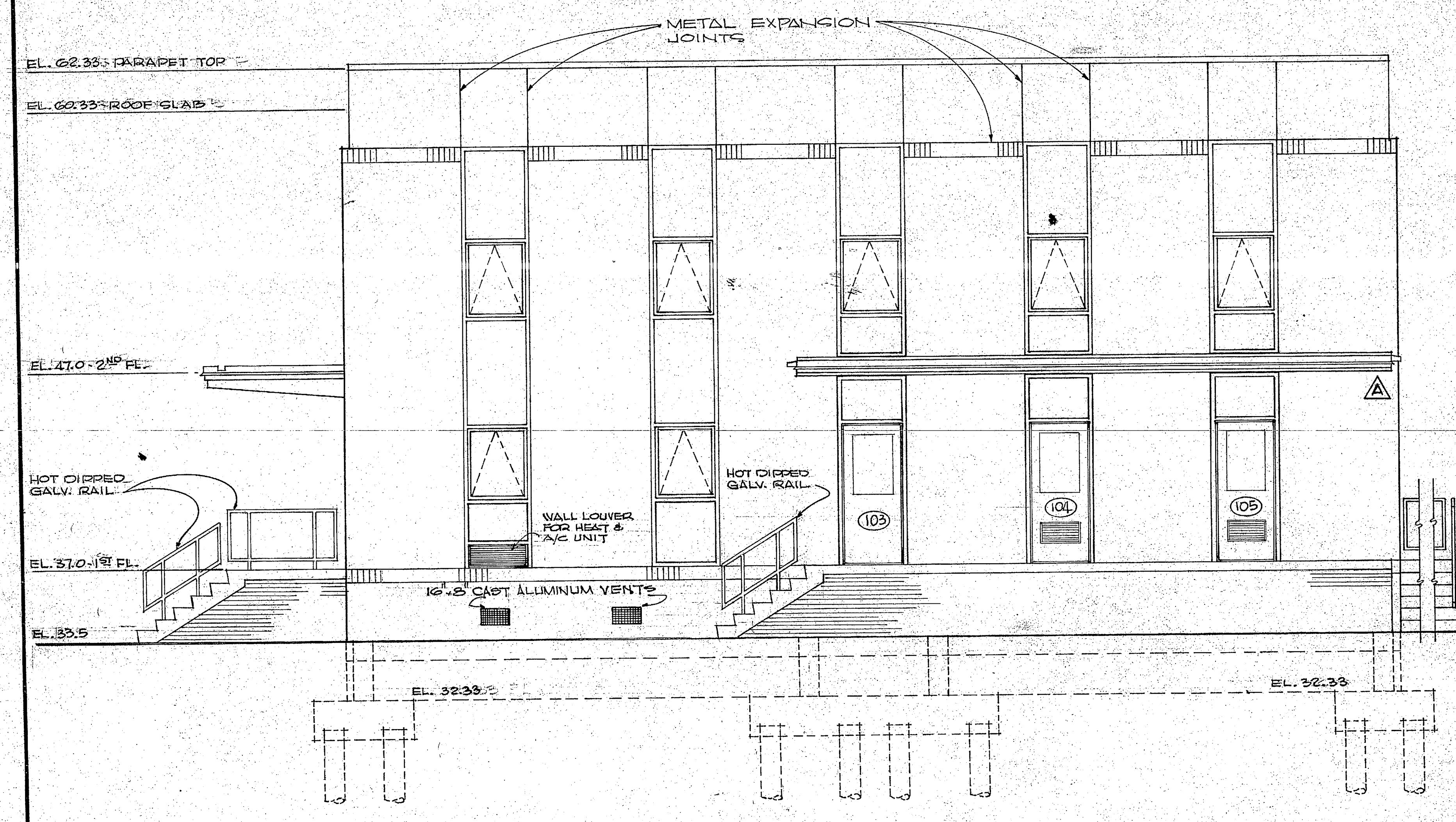
TYPICAL SECTION THRU TRACK
SCALE: 3/8" = 1'-0"



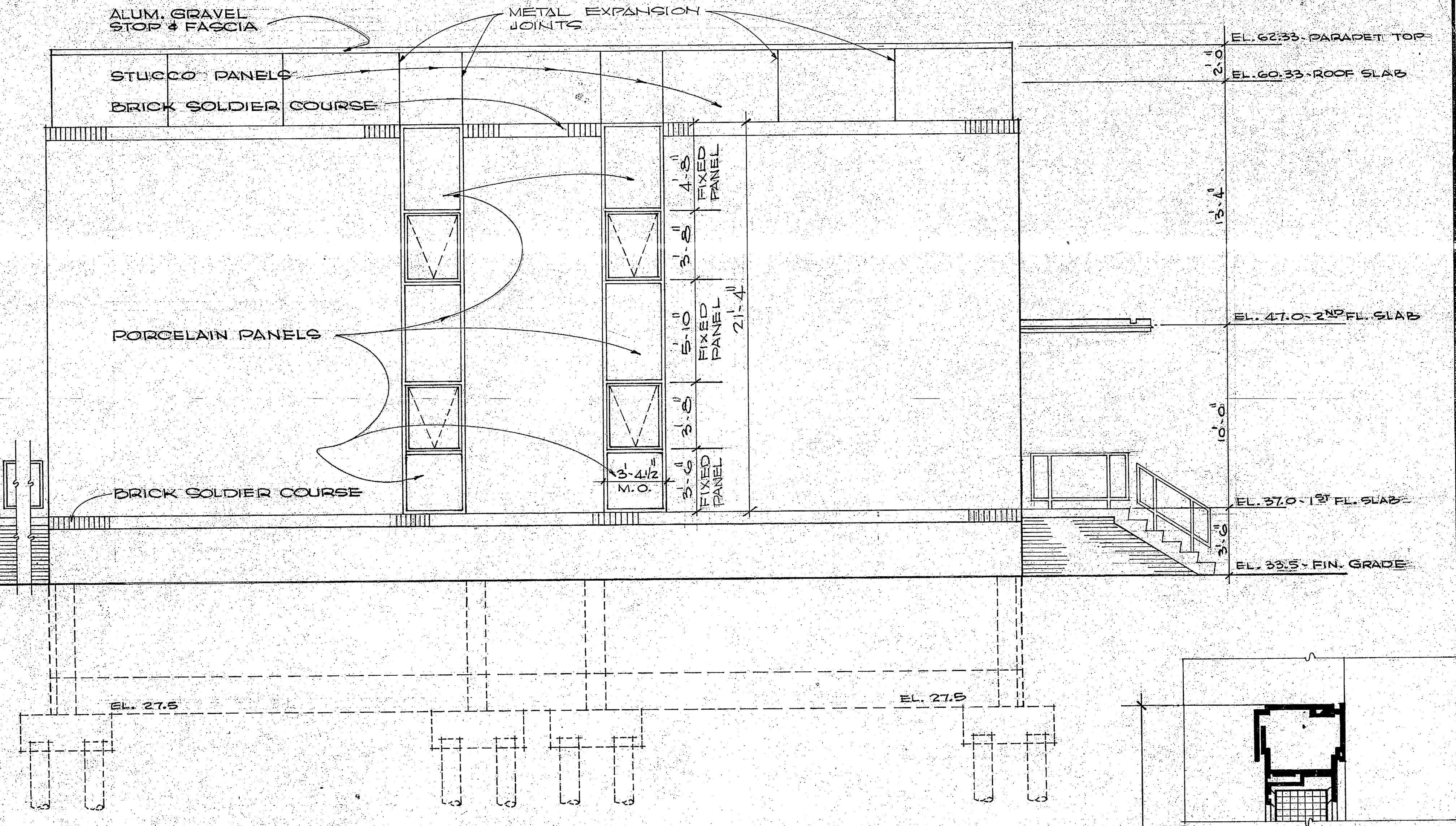
HENRY VON BEEBE & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, N. C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION NORFOLK, VA.	
DES. J.R.B.		DR. D.M. CHK.	
SURV. H.V.C.		CIV. ENGR. J.R.B.	
SUBMITTED BY: J. Robert B.		DATE: 1/15/70	
FED. MEMBER		NO. 70-0933	
APPROVED: J. Robert B.		DATE: 1/15/70	
PUBLIC WORKS OFFICER		DATE: 1/15/70	
PROJECT NO. 80091		NAVFAC DRAWING NO. 1338892	
SHEET 4 OF 49		05-70-0933	
84892			



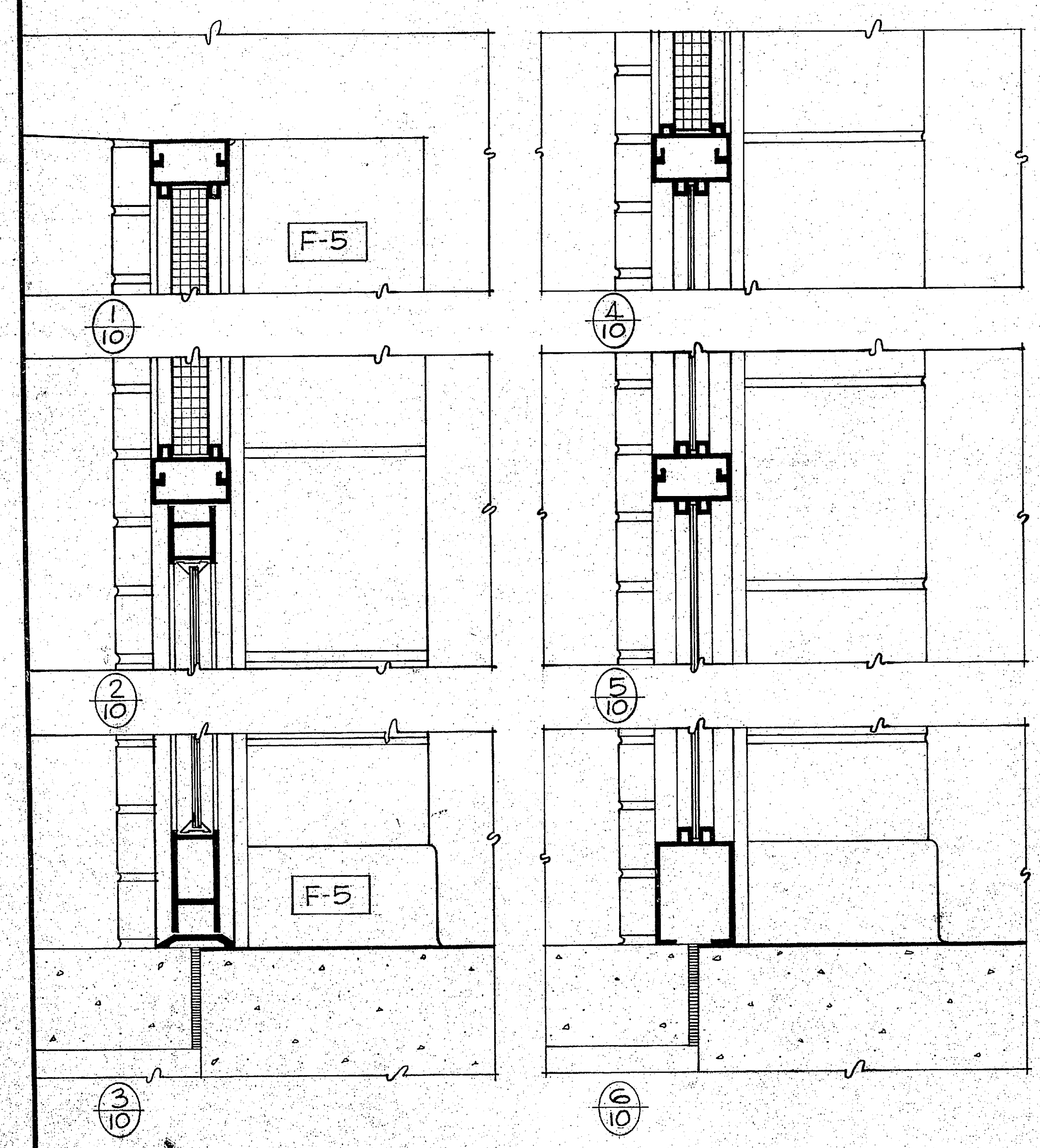
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
A	REVISION TO ENTRANCE CANOPY	8/19/70	E.M.H.



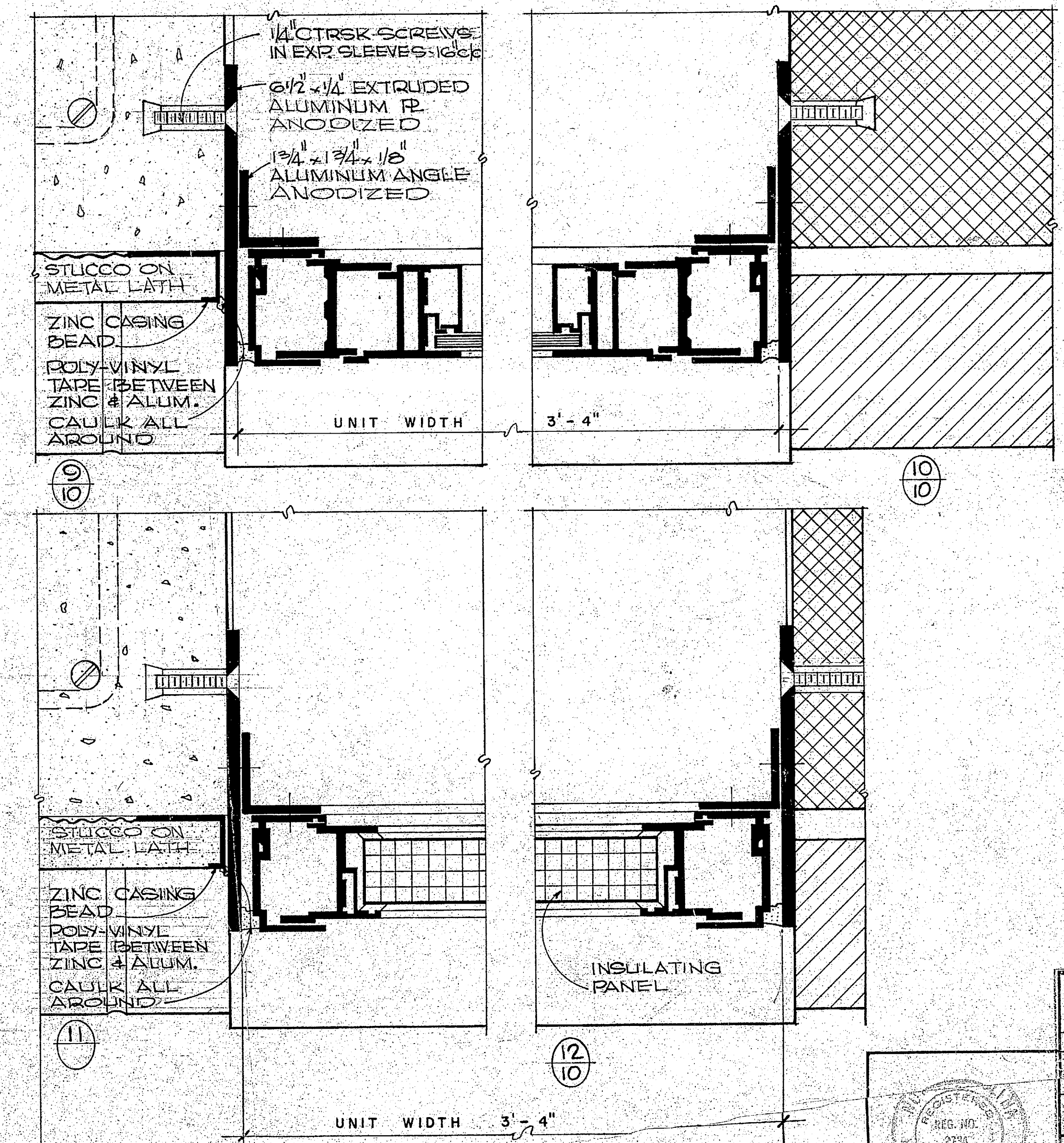
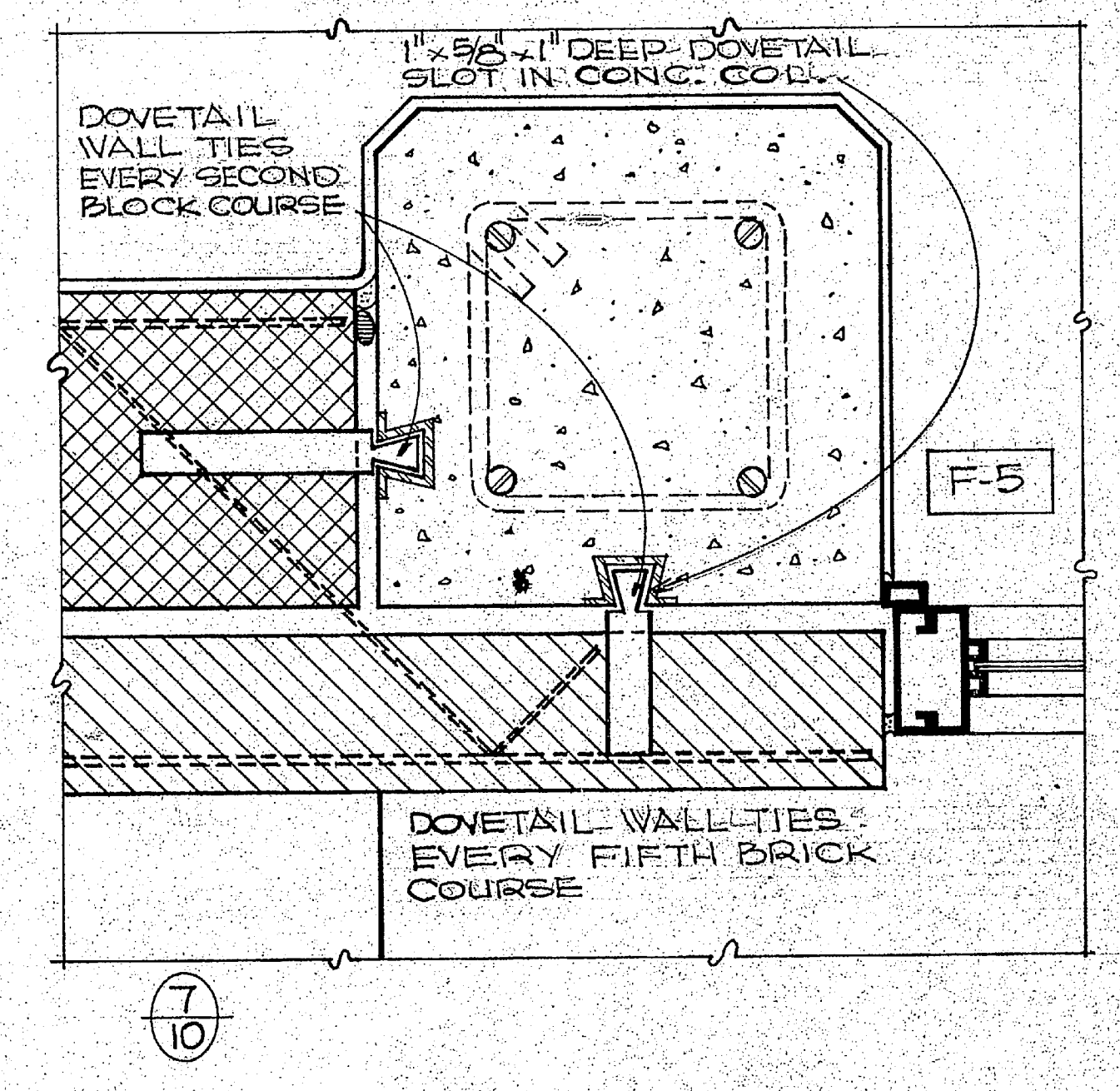
SOUTH ELEVATION
SCALE 1/4" = 1'-0"



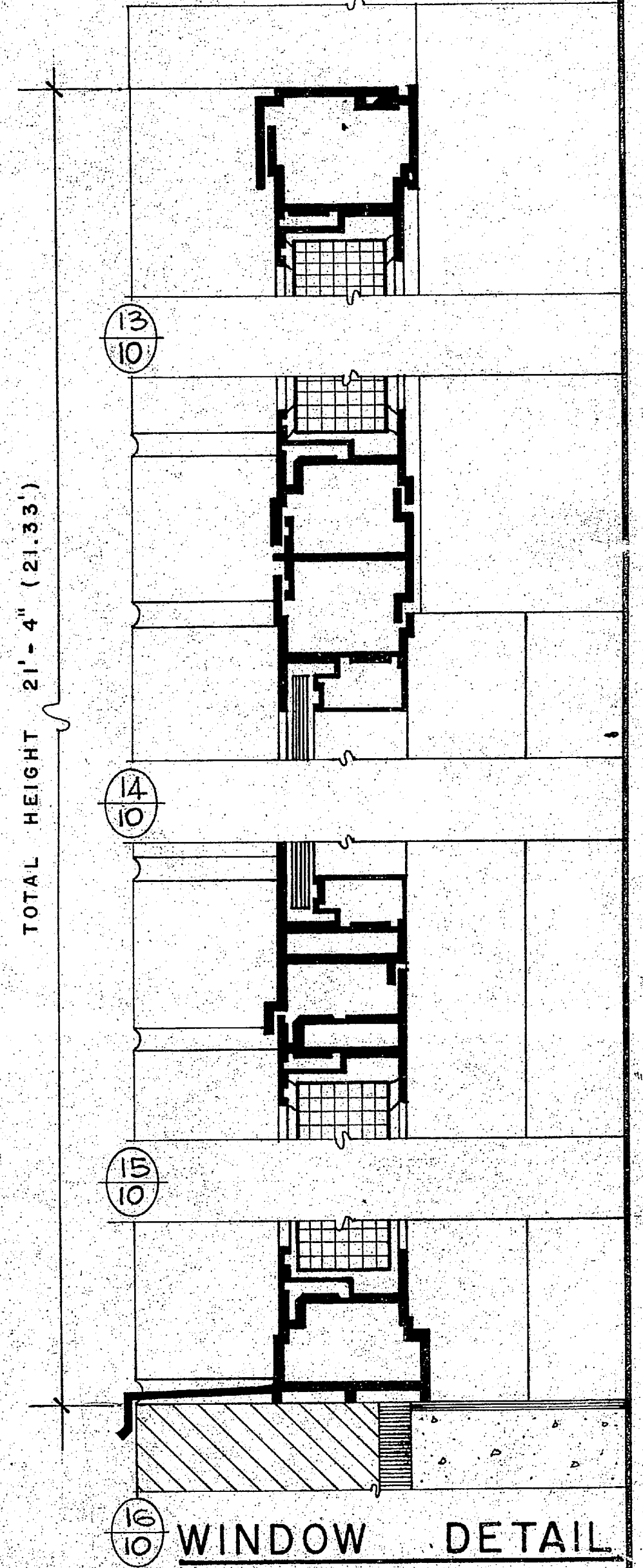
NORTH ELEVATION
SCALE 1/4" = 1'-0"



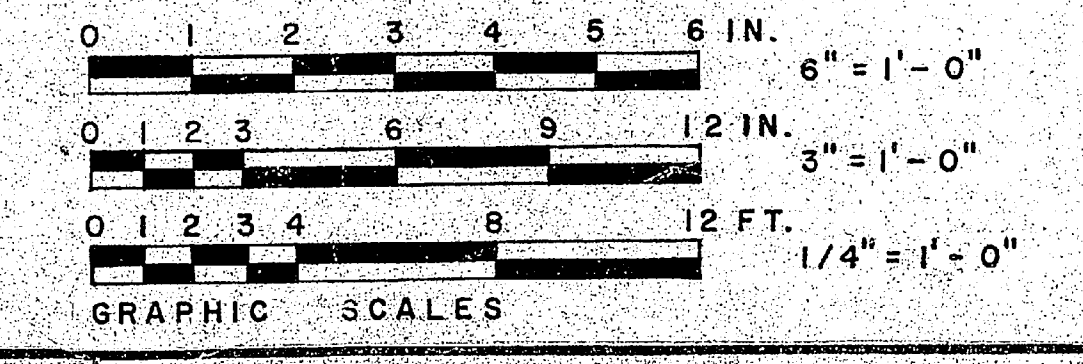
ENTRANCE DETAIL
SCALE 3" = 1'-0"



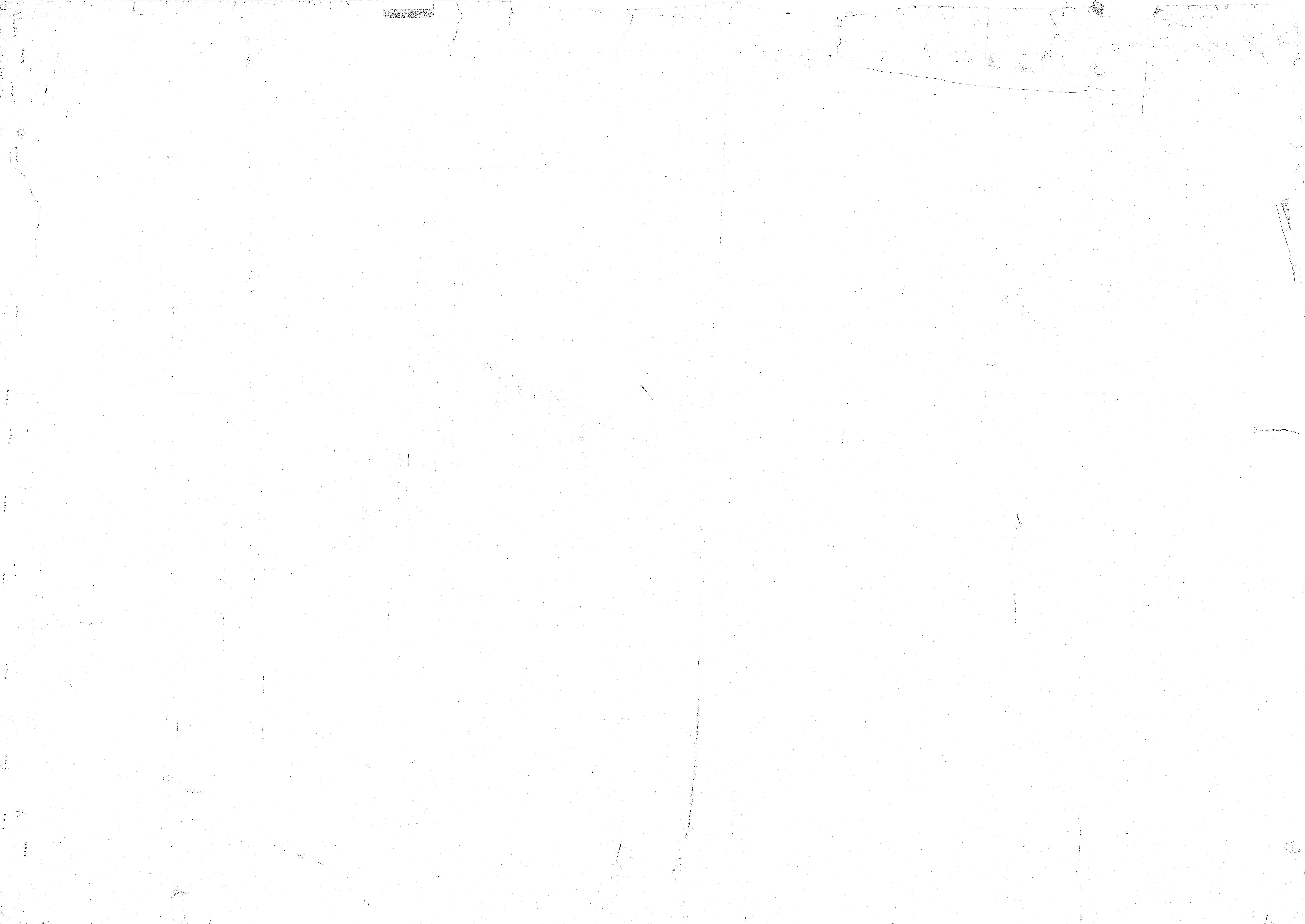
WINDOW DETAIL
SCALE 6" = 1'-0"



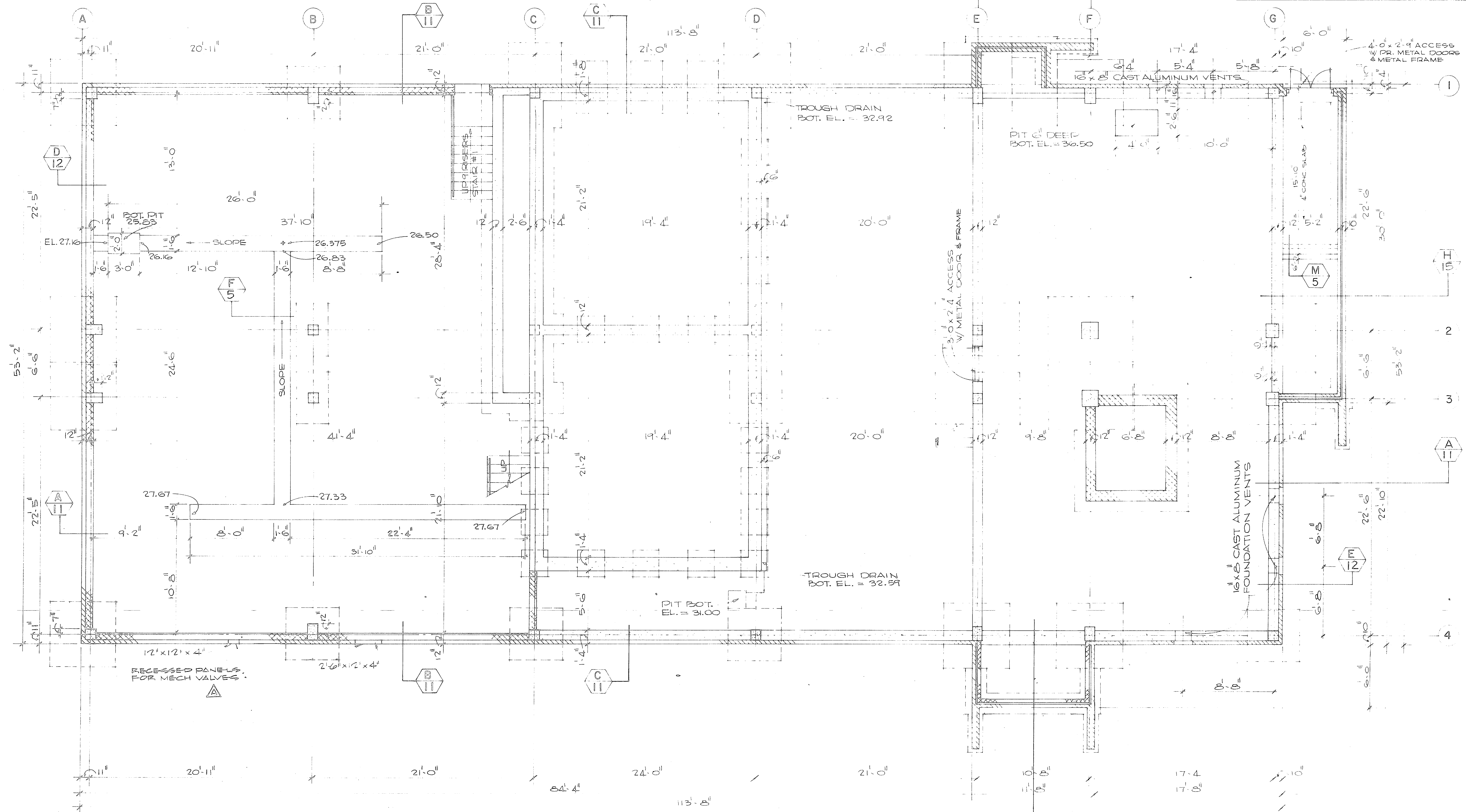
WINDOW DETAIL
SCALE 6" = 1'-0"



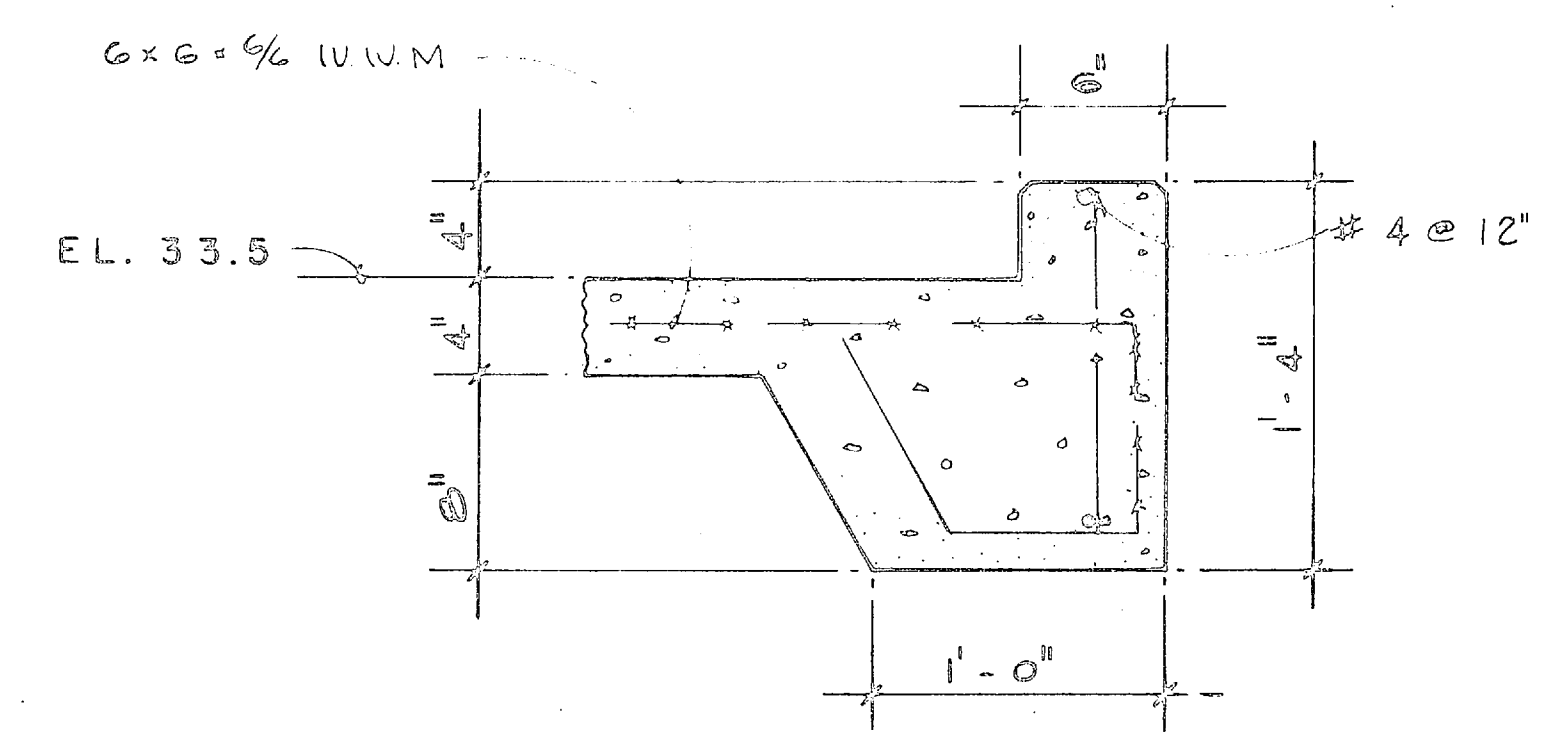
HENRY YON DESEN & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, N. C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NORFOLK, VA.	
DES. J.R.D.	CHK. J.W.W.	CEN.	
SUPV. J.E.B.	ENR. ENGR. J.Z.B.		
PROJ. ENGR. J.E.B.			
APP. J.E.B.			
DATE			
PUBLISHED WORKS OFFICE		PROJECT NO. 1338898	
DATE		DRAWING NO. 80091	
SCALE		SHEET NO. 10 OF 49	
PROJECT NO. 62470-704-0339		SHEET NO. 10 OF 49	
DATE 05/10/69		SHEET NO. 10 OF 49	
DRAWING NO.		84898	



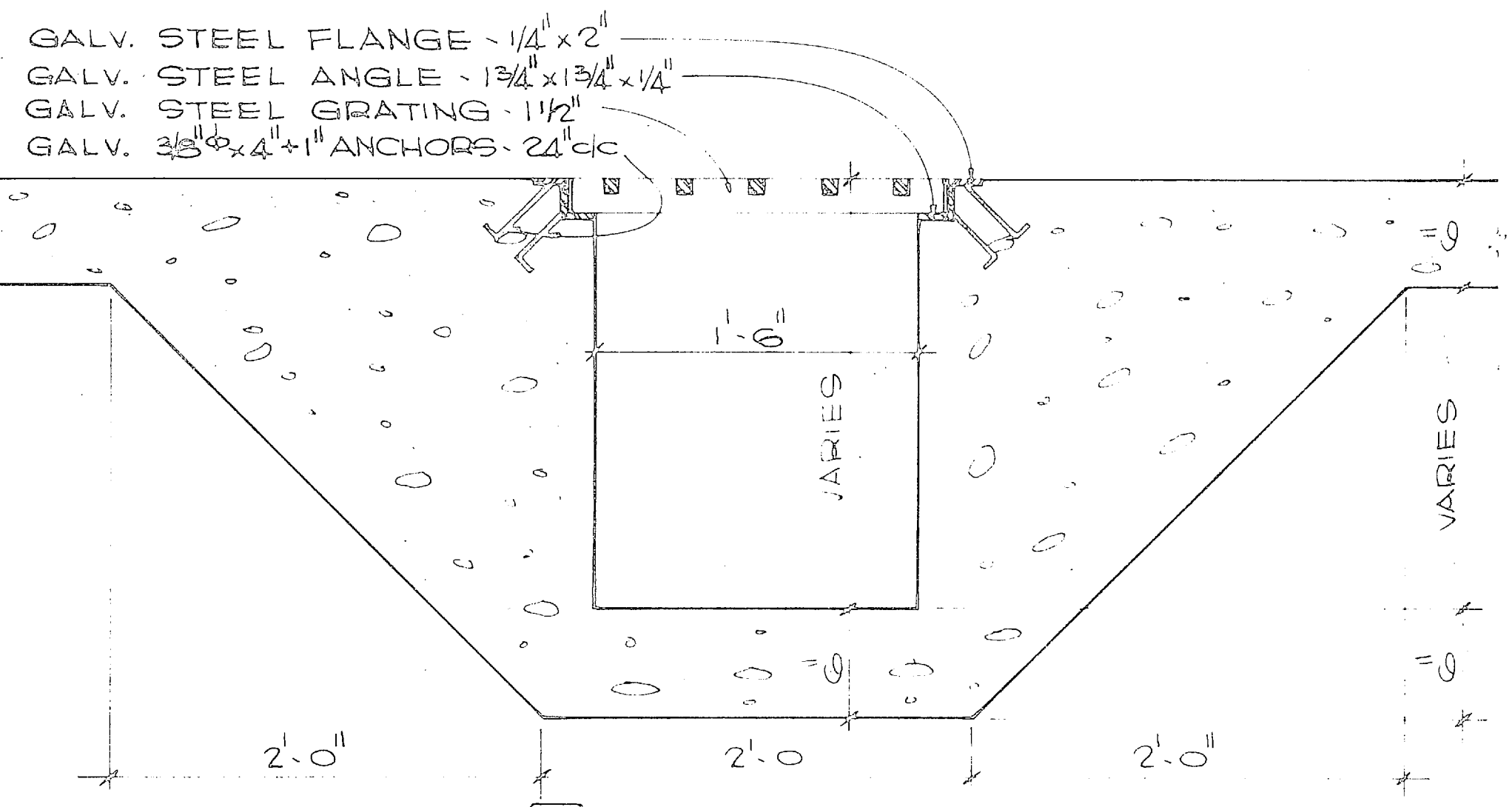
REVISIONS		
SYM	DESCRIPTION	DATE
A	ADDITION OF RECESSED PANELS	2/12/70



FOUNDATION PLAN AT EL. 34.5
SCALE 1/4" = 1'-0"

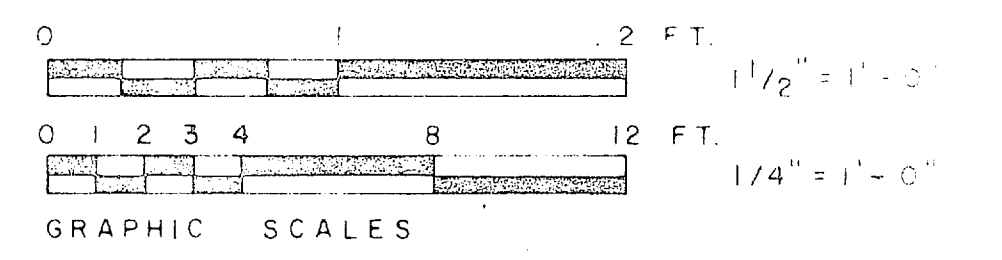


SECTION M-5
SCALE 1/2" = 1'-0"

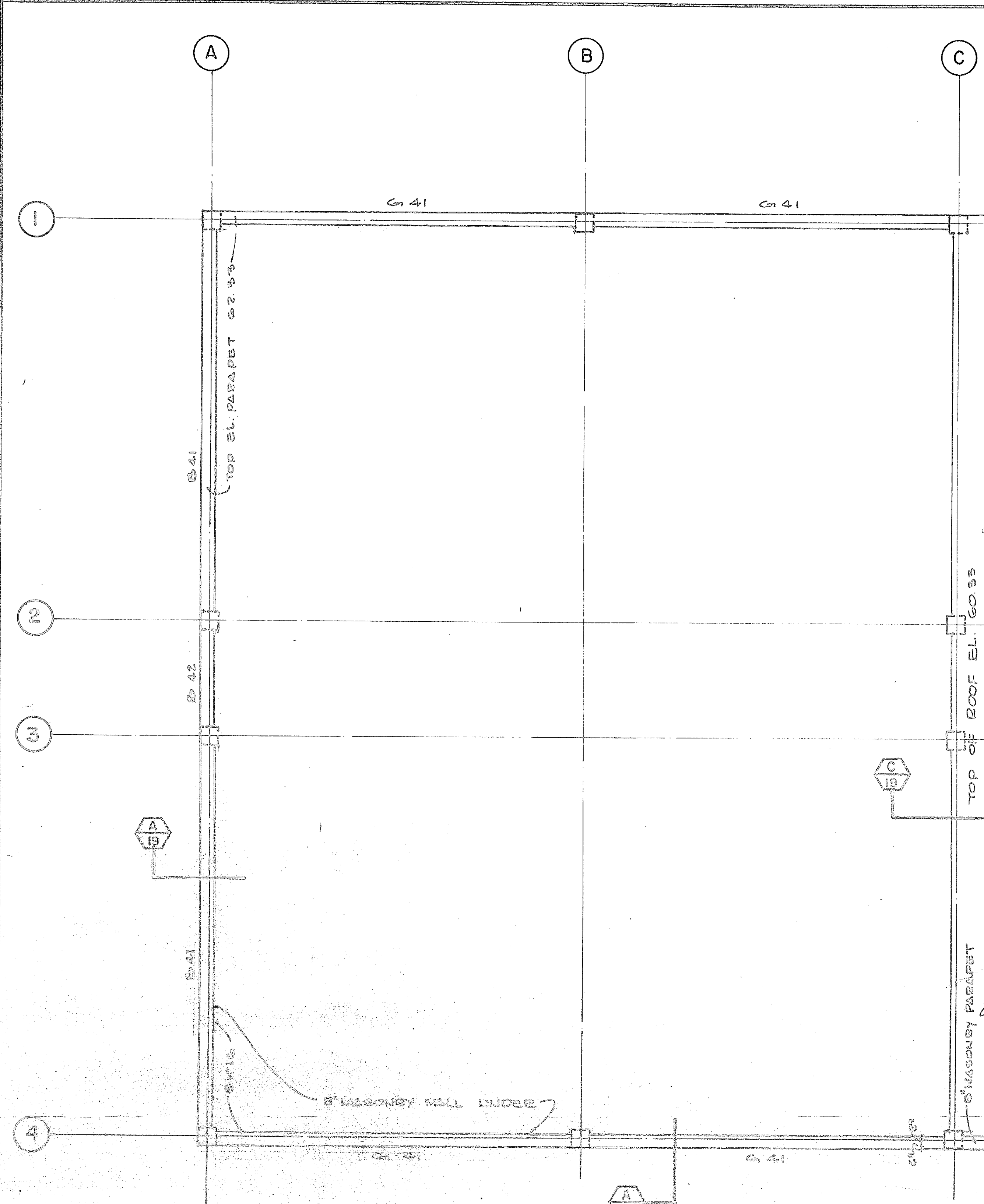


SECTION F-5
SCALE 1/2" = 1'-0"

- GALV. STEEL FLANGE - 1/4" x 2"
- GALV. STEEL ANGLE - 1 3/4" x 1 3/4" x 1/4"
- GALV. STEEL GRATING - 1 1/2"
- GALV. 2 3/8" x 4" x 1" ANCHORS - 24" c/c

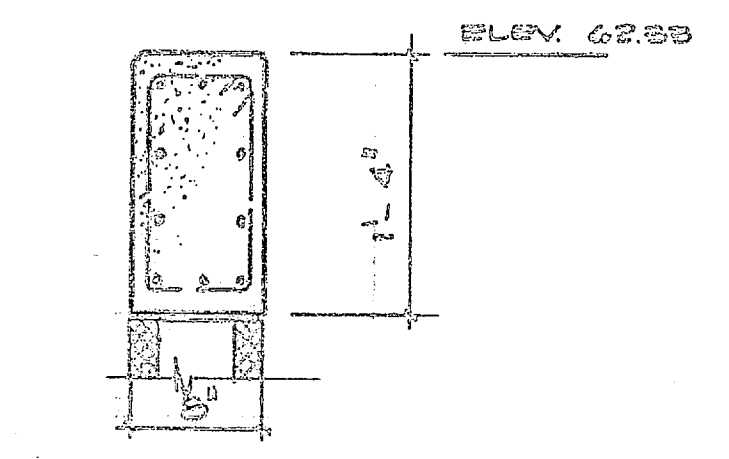


HENRY VON GEESEN & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, N. C.		ATLANTIC DIVISION	
DESIGNED BY: [Signature]		WATER TREATMENT PLANTS, WELLS AND DISTRIBUTION SYSTEM	
SUBMITTED BY: [Signature]		CAMP LEJEUNE, NORTH CAROLINA	
APPROVED: [Signature]		TREATMENT PLANT FOUNDATION PLAN & SECTION	
PROJECT NO. 80091		1338893	



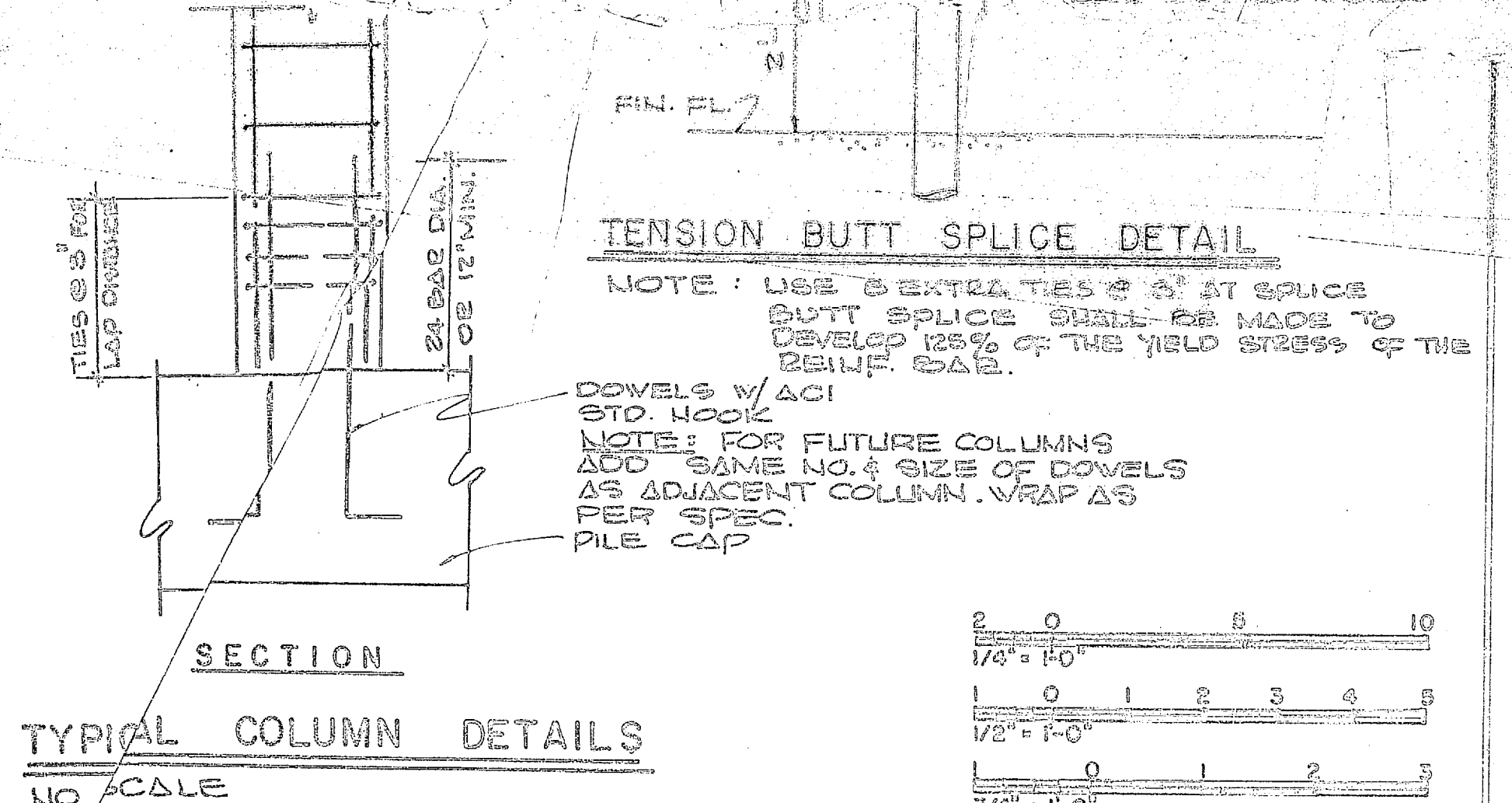
PLAN PARAPET RAILING
1/4" = 1'-0"

BEAM, & GIRDER SCHEDULE						
MARK	SIZE	REINFORCING				
		LONGITUDINAL	TIES		REMARKS	
W	D	BOT.	TOP CONT.	NO.	SIZE	SPACING FROM FACE OF SUPP.
B41	8 16	3#4	5#4	2#4 EA SIDE	#3	12" REM. @ 12"
B42	8 16	DO	DO	DO	DO	DO
G41	8 16	3#4	5#4	2#4 EA SIDE	#3	12" REM. @ 12"



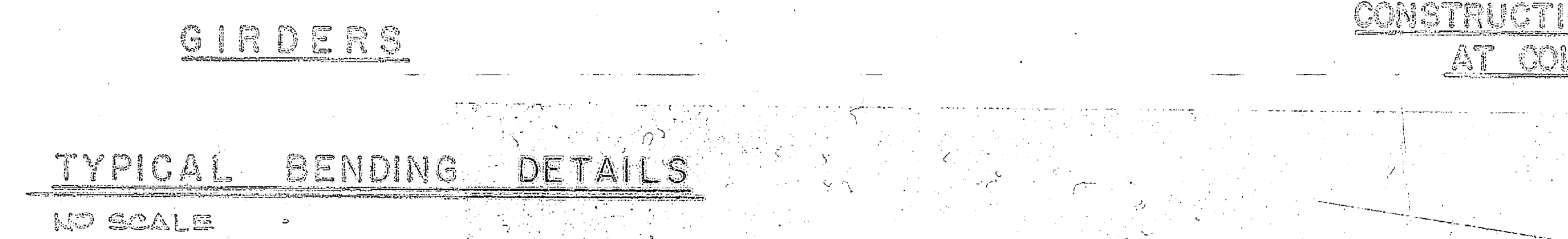
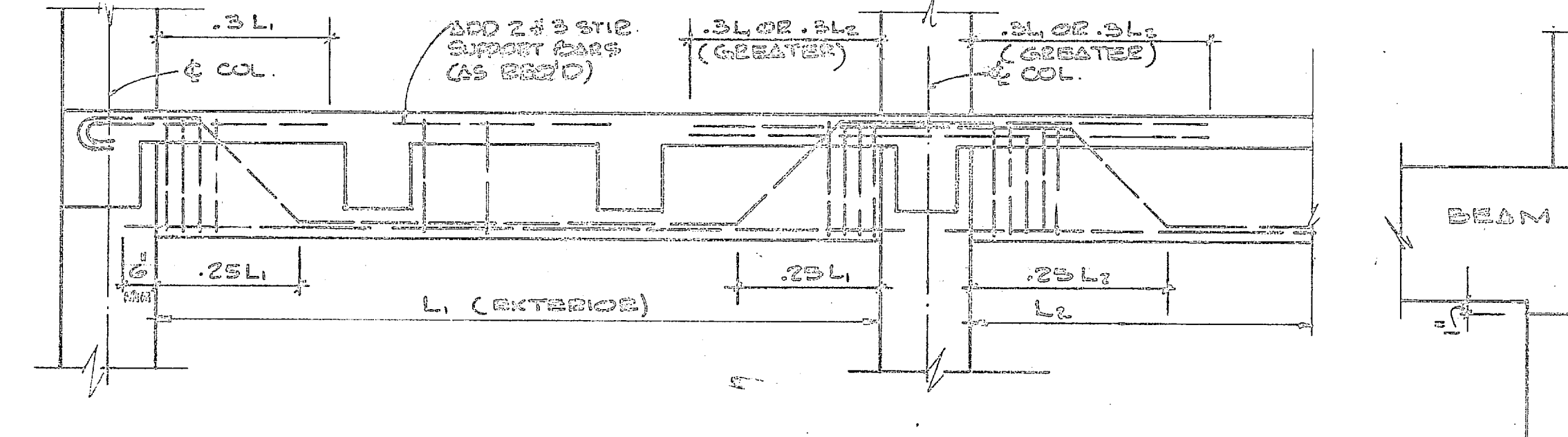
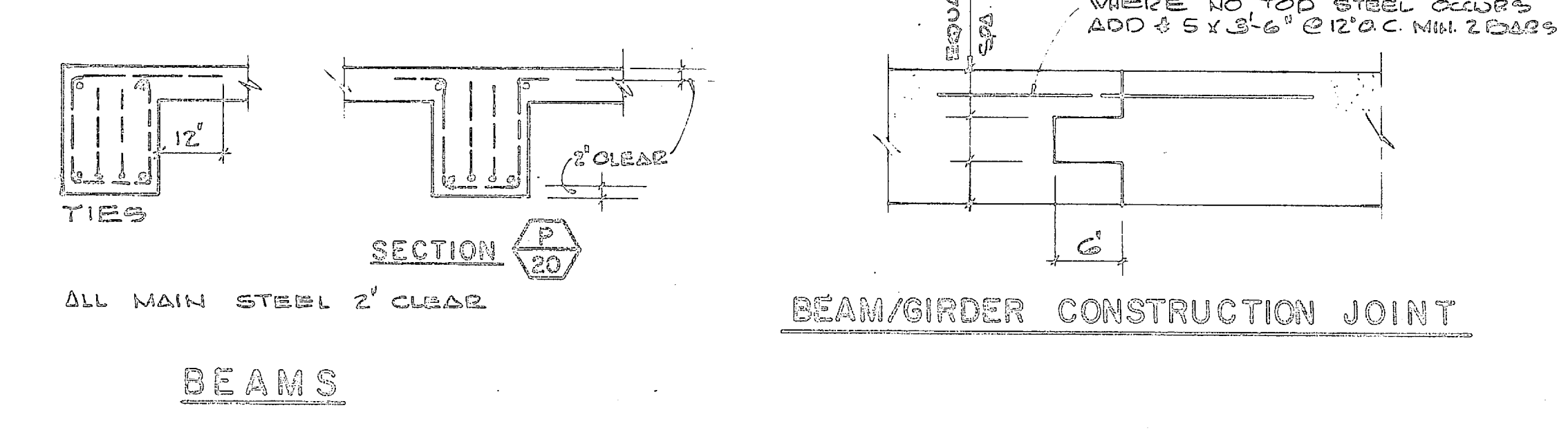
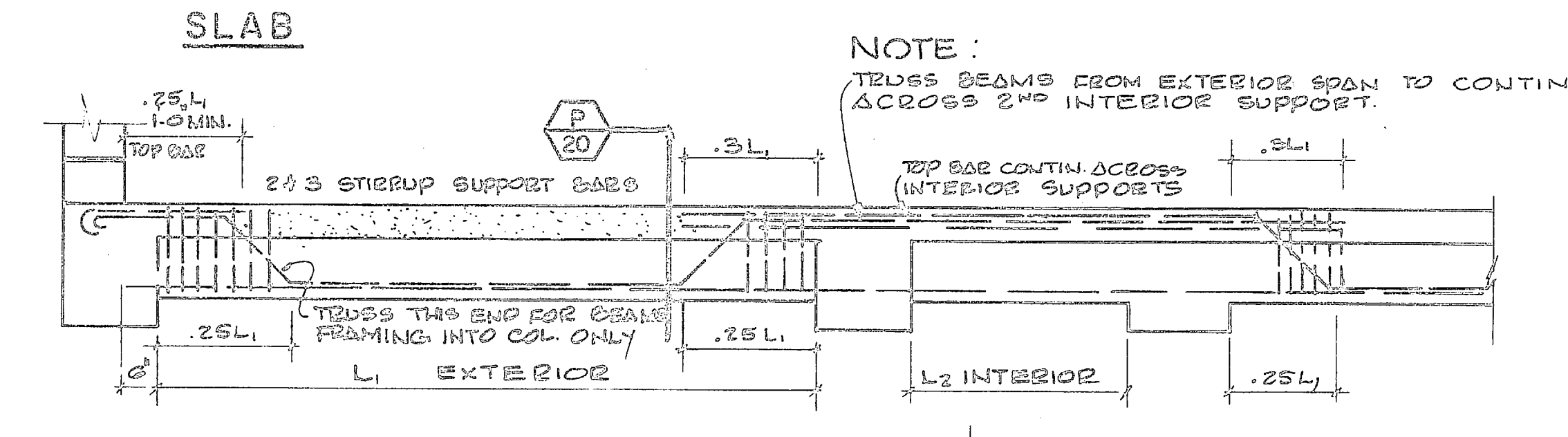
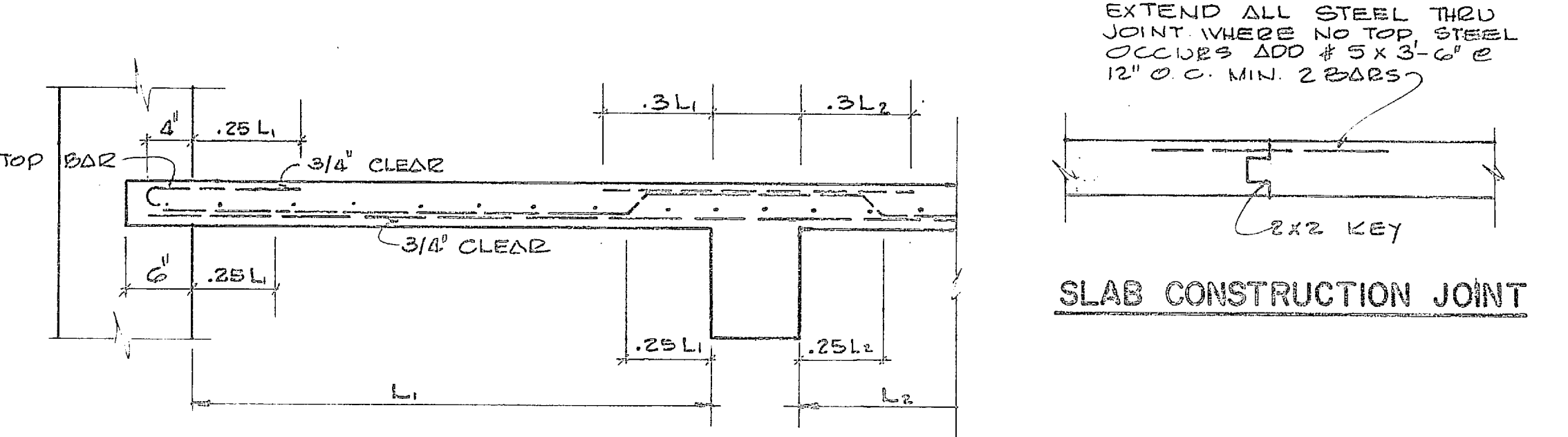
TYPICAL SECTION
(PARAPET)

COLUMN SCHEDULE												
MARK (BY GRID LINE)	1A 4A	2A 3A	1B 4B	2B 3B	2C 3C	1E 1F 4E 4F	2D 3D	2E 2F 3E 3F	1G 4G	2G 3G	1C 4C	2C 3C
SIZE	8 X 8	12 X 8	8 X 12		12 X 12							
VERT. STEEL	4#8	4#7	4#7		4#8							
TIES	#2 @ 8	#2 @ 8	#2 @ 8		#3 @ 12"							
SIZE	14 X 14	12 X 16	16 X 12	12 X 12	12 X 12	12 X 12	12 X 12	12 X 12	12 X 12	12 X 12	12 X 12	12 X 12
VERT. STEEL	4#8	6#9	4#7	4#10	4#8	6#6	4#7	4#7	6#7	4#9	6#6	6#6
TIES	#3 @ 14	#3 @ 12	#3 @ 12	#3 @ 12	#3 @ 12	#2 @ 12	#3 @ 12	#3 @ 12	#3 @ 12	#3 @ 12	02 @ 12	02 @ 12
SIZE	14 X 14	12 X 16	16 X 12		12 X 12	12 X 12	12 X 12	12 X 12	12 X 12	12 X 12	12 X 12	12 X 12
VERT. STEEL	4#8	6#9	4#7		6#6	4#10	4#10	6#7	4#11	4#11	6#6	6#6
TIES	#3 @ 14	2#3 @ 12	#3 @ 12		4#2 @ 12	#3 @ 12	#3 @ 12	#3 @ 12	#3 @ 12	#3 @ 12	02 @ 12	02 @ 12
SIZE	6 X 8	6 X 8	6 X 8	6 X 8	6 X 8	6 X 8	6 X 8	6 X 8	6 X 8	6 X 8	6 X 8	6 X 8
VERT. STEEL	4#8	4#8	4#8	4#8	4#8	4#8	4#8	4#8	4#8	4#8	4#8	4#8
TIES	#3 @ 12	#3 @ 12	#3 @ 12	#3 @ 12	#3 @ 12	#3 @ 12	#3 @ 12	#3 @ 12	#3 @ 12	#3 @ 12	#3 @ 12	#3 @ 12
SIZE	4#8 X 3'-2"	6#9 X 3'-8"	4#7 X 2'-9"	4#10 X 4'-2"	4#8 X 3'-2"	6#8 X 3'-2"	4#10 X 4'-2"	4#10 X 3'-2"	6#8 X 3'-2"	4#11 X 4'-6"	6#8 X 3'-2"	6#8 X 3'-2"
FILE CAP TYPE	F5	F5	F4	F2	SEE PLAN	VARIES, SEE PLAN	F4	F6	F8	F4	F6	VARIES, SEE PLAN
TOTAL LOAD (KIPS - COLUMN ONLY)	41.7	51.1	63.5	49.8	47.5	82.1	100.2	78.2	136.4	127.1	56.1	122.3



TYPICAL COLUMN DETAILS
NO SCALE

HENRY VON OESCH & ASSOCIATES CONSULTING ENGINEERS DREHENDORF, N. C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NORFOLK, VA.	
DES. J.R.A. DR. A.W. CHECKED	WATER TREATMENT PLANTS WELLS AND DISTRIBUTION SYSTEM		
SUPV. H.V.O. CHK. ENGR. J.R.B.	CAMP LEJEUNE, NORTH CAROLINA		
DATE 5/25/70	TREATMENT PLANT PARAPET PLAN & DETAILS		
APPROVED	DATE 5/25/70	CODE 80091	1358908
PUBLIC WORKS OFFICER		DATE 5/25/70	
APPROVED		DATE 5/25/70	



STRUCTURAL NOTES:

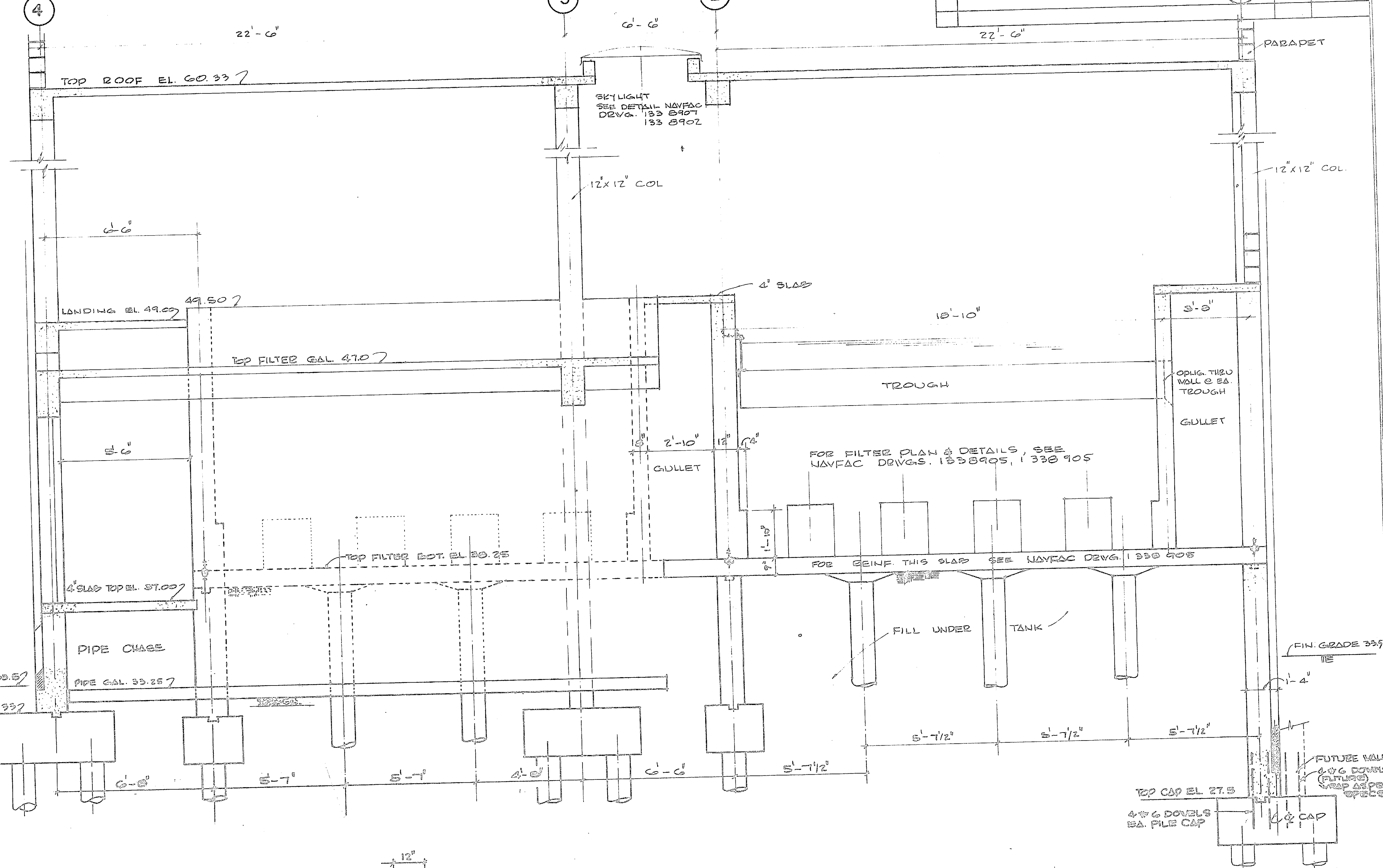
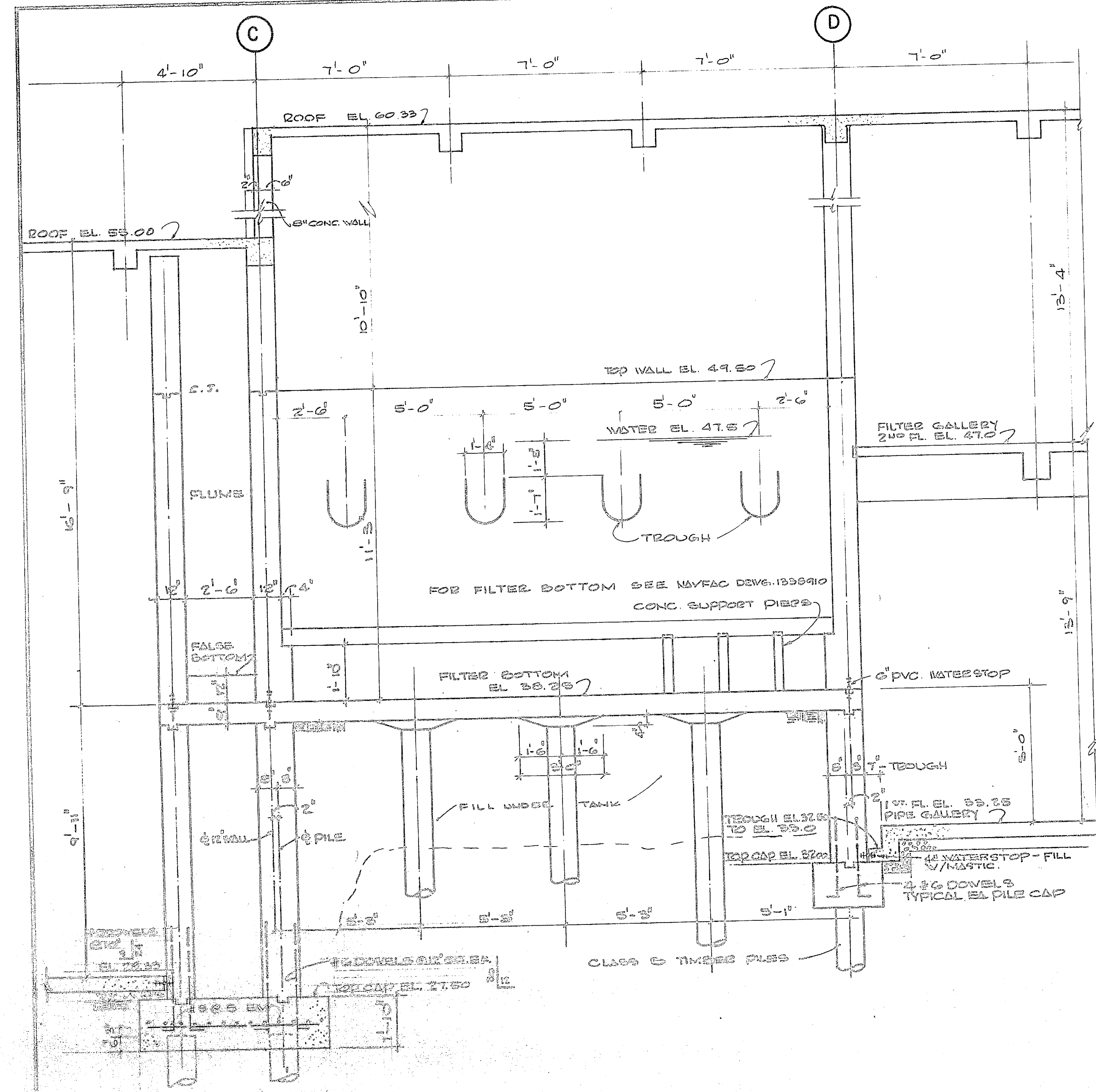
- GENERAL**
- DESIGN LIVE LOADS: ROOF 20 PSF, FLOORS - OFFICES, SHOWERS = 60 PSF, FILTER GALLERY = 75 PSF, PASSAGEWAYS, LBS, STORAGE = 100 PSF, ELEVATOR MACH. ROOM 150 PSF. WIND 115 MPH, BASIC DESIGN WIND 35 PSF, SEISMIC ZONE 1.
 - RECTIFY INTERIOR WALLS IN COLLISION WITH SECTION OF CONC. FRAME.
 - THIS STRUCTURE HAS BEEN DESIGNED FOR A TOTAL UNIT LATERAL WIND FORCE OF 55 PSF & A PARTITION LATERAL FORCE OF 10 PSF, THIS STRUCTURE HAS BEEN ANALYZED FOR SEISMIC FORCES FOR ZONE 1.
- FOUNDATIONS**
- FOOTING DESIGN IS BASED ON ALLOWABLE SOIL BEARING PRESSURE OF 1000 PSF.
 - BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 2'-0" MIN. BELOW FINISHED GRADE OR 1'-0" BELOW EXIST. GRADE, WHICHEVER IS LOWER.
 - REMOVE TOP SOIL, ORGANIC DEBRIS & SOFT CLAY FROM UNDER FLOOR SLABS, BACKFILL W/ CLEAN SELECTED FILL COMPACTED IN 6" LAYERS TO 95% OF MAX. DENSITY AT OPTIMUM MOISTURE CONTENT.
 - PILING SHALL BE CLASS B TIMBER PILE DRIVEN TO 125% NET DETENTION SEE SPEC. FOR DIMENSIONS & TEST FILED BEFORE ORDERING. DRIVE TO 20 TONS BEARING CAP.
 - WALLS ACTING AS RETAINING WALLS SHALL NOT BE BACKFILLED UNTIL CONCRETE HAS ATTAINED DESIGN STRENGTH.
- CONCRETE**
- CONC. COMPRESSIVE STRENGTH IN 28 DAYS: PILE CAPS, FOOTINGS, SLABS ON GRADE = 3000 PSI, ALL OTHER MEMBERS 4000 PSI.
 - REIN. STEEL ASTM A618, GRADE 40, WELDED WIRE MESH ASTM A185. PROVIDE BAR SUPPORTS IN ACCORDANCE WITH ACI DETAILING MANUAL & CRSI STANDARDS.
 - REIN. STEEL SHALL HAVE THE FOLLOWING CLEAR CONCRETE COVER: FOOTINGS, PILE CAPS = 3", BEAMS, GIRDERS, COLUMNS = 2", TANK WALLS = 2" SLABS ON GRADE = 1 1/2" SLABS = 3/4"
 - DOVELS & CONTINUOUS REIN. SHALL HAVE A MIN. LAP OF 24 BAR DIAMETERS - 12" MIN.
 - CLAMPER ALL EXPOSED EDGES 3/4" X 4/8"
 - PROVIDE EXTRA REIN. AT OPENINGS THRU WALLS OR SLABS OF MIN. 2#5 EACH WAY. SEE DETAIL.
 - CONSTRUCTION JOINTS IN FLOORS SHALL BE LOCATED NEAR THE MIDDLE OF THE SPANS OF SLABS, BEAMS OR GIRDERS UNLESS A BEAM INTERSECTS A GIRDER AT THIS POINT. PROVIDE 6" MIN. CLEARANCE FOR TRANSFER OF SLABS & OTHER FLOOR THRU THIS JOINT.
 - COMPRESSION LAP SPICE IN COLUMNS TO BE 24 BAR DIAMETERS OR 12" MIN. TENSION SPICE WHERE INDICATED ON PLANS SHALL BE AS SHOWN IN DETAIL (SOFT SPICE).
- STRUCTURAL MASONRY**
- EXTERIOR CON. MASONRY WALLS ARE CONSIDERED TO BE STRUCTURAL MASONRY.
 - COMPRESSIVE STRENGTH OF MASONRY UNITS: CLAY UNITS = 2500 PSI, CONC. UNITS = 1500 PSI.
 - COMPRESSIVE STRENGTH OF MORTAR AT 28 DAYS TO BE 1800 PSI MIN.
 - TIE W/ REIN. W/ HORIZONTAL REIN. AS SPECIFIED.
 - MAINTAIN MIN. 3/8" CLEARANCE BETWEEN REIN. ON BRICK & CONC. BLOCK WALLS.
 - MIN. BEARING FOR LINTELS 8" (CONC.) ALL LINTEL BLOCK TO BE FILLED W/ 5000 PSI CONC. W/ #2 @ 8" CONT. USE 2" X 3" X 3/4" FOR STEEL LINTELS - MIN. BEARING 6".

--- TENSION SPlice - SEE STRUCTURAL NOTES



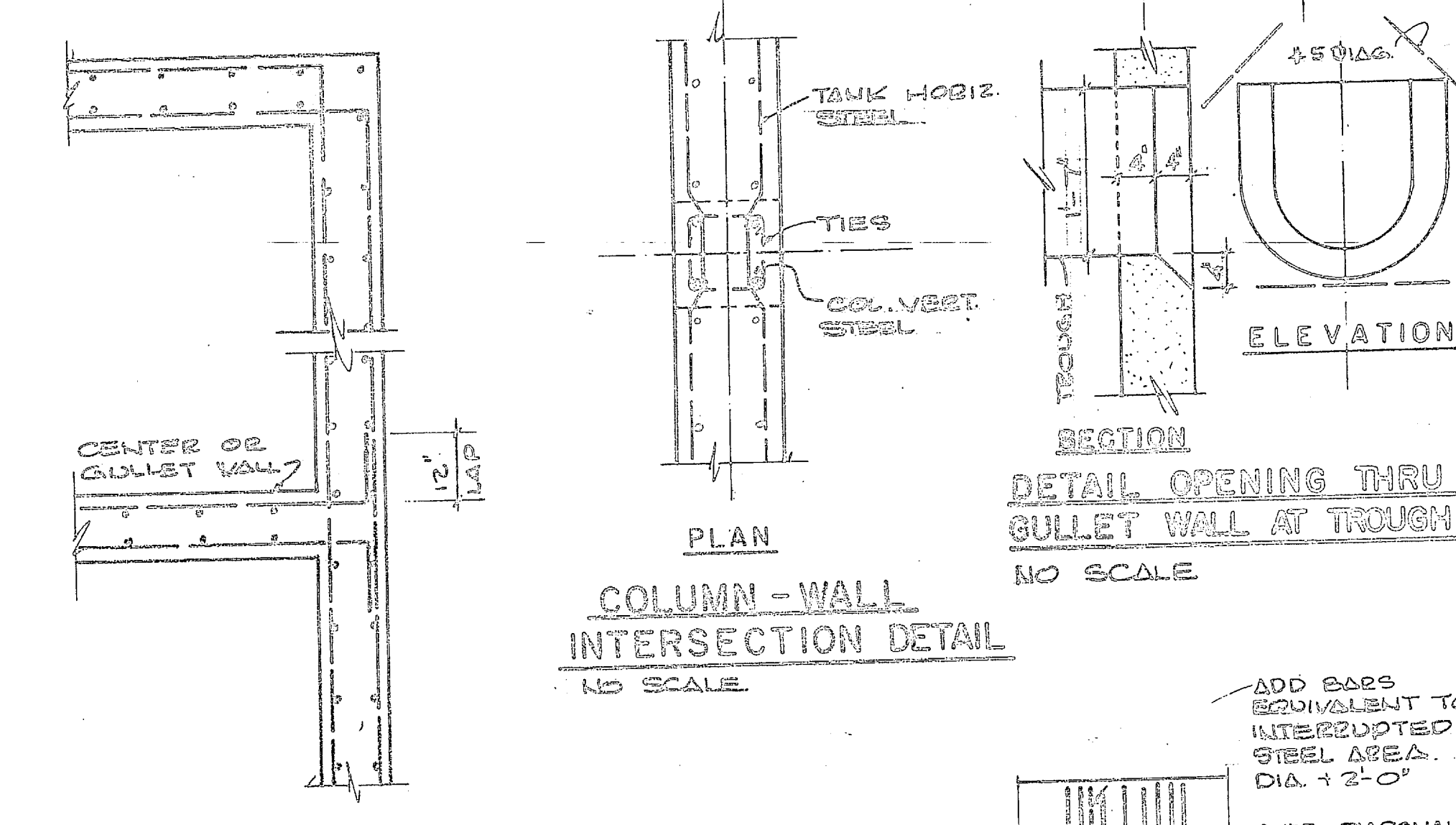
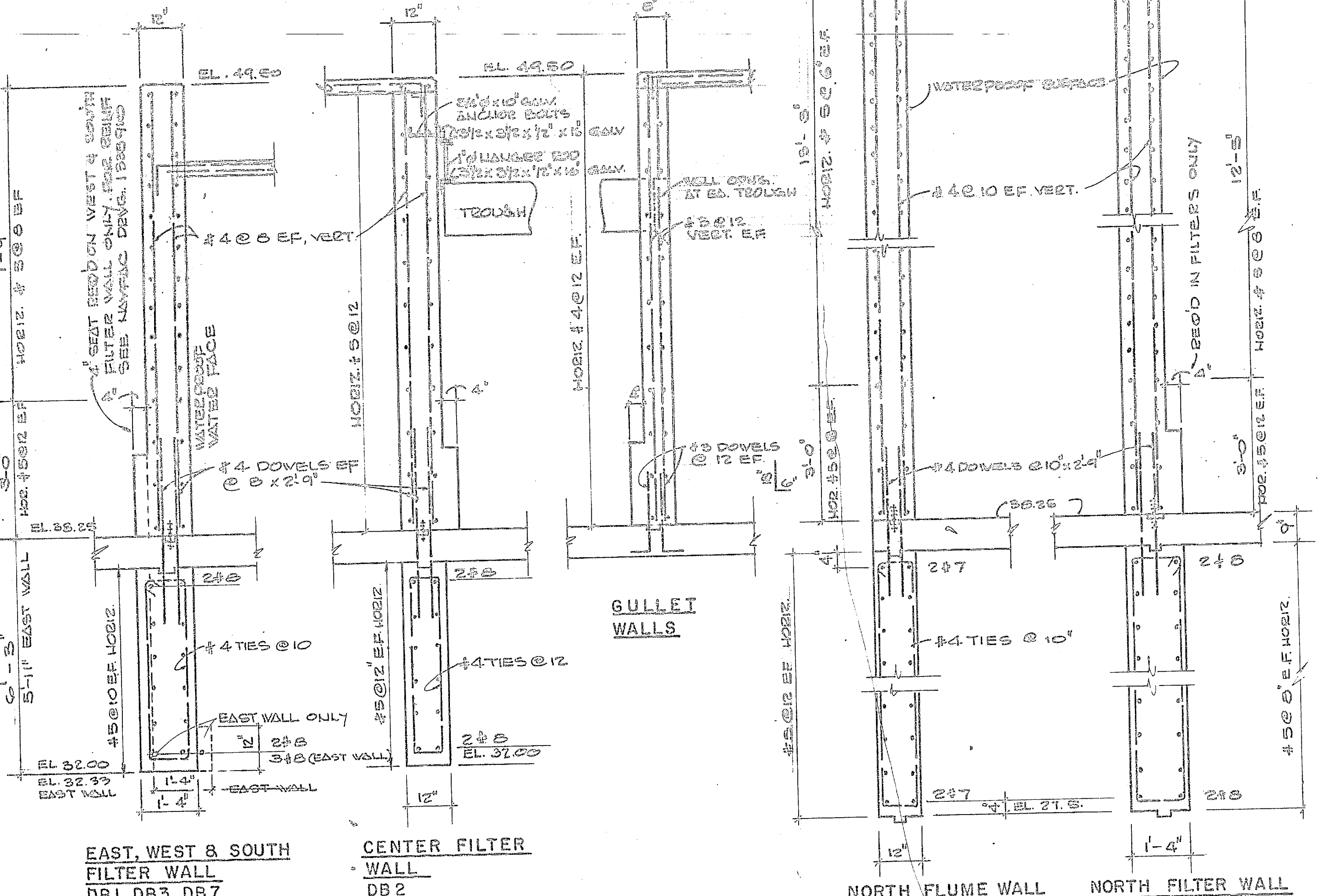
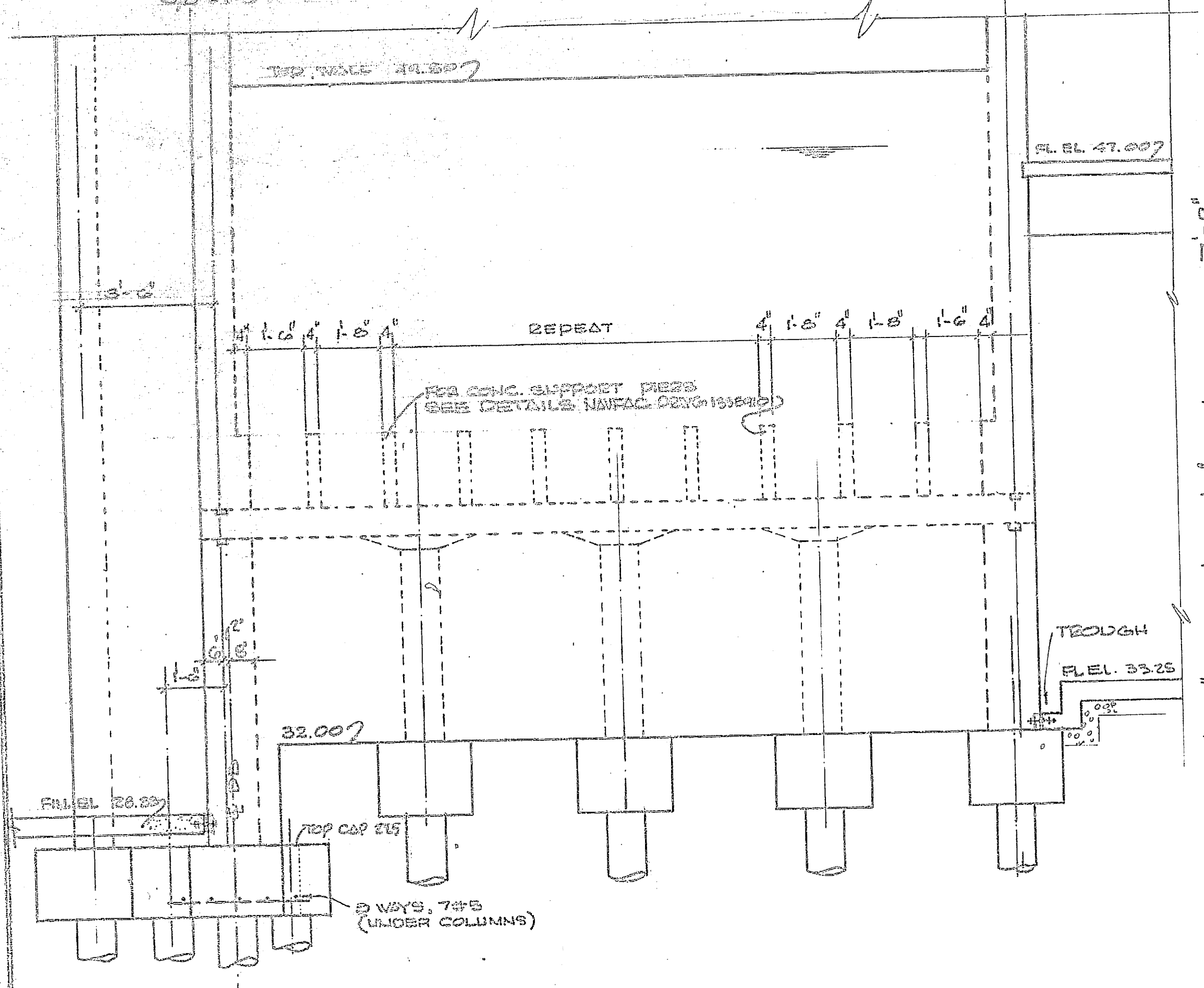
1/10/11

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



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

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



PLAN WALL CORNER & INTERSECTION DETAILS
NO SCALE

NOTE
NO HORIZONTAL CONSTRUCTION JOINTS PERMITTED UNLESS INDICATED FOR VERTICAL CONSTRUCTION JOINT DETAIL SEE NAVFAC DRAWG. 1338 905

PIPE OPENING DETAIL
NO SCALE
TYPICAL ALL OPNGS.

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

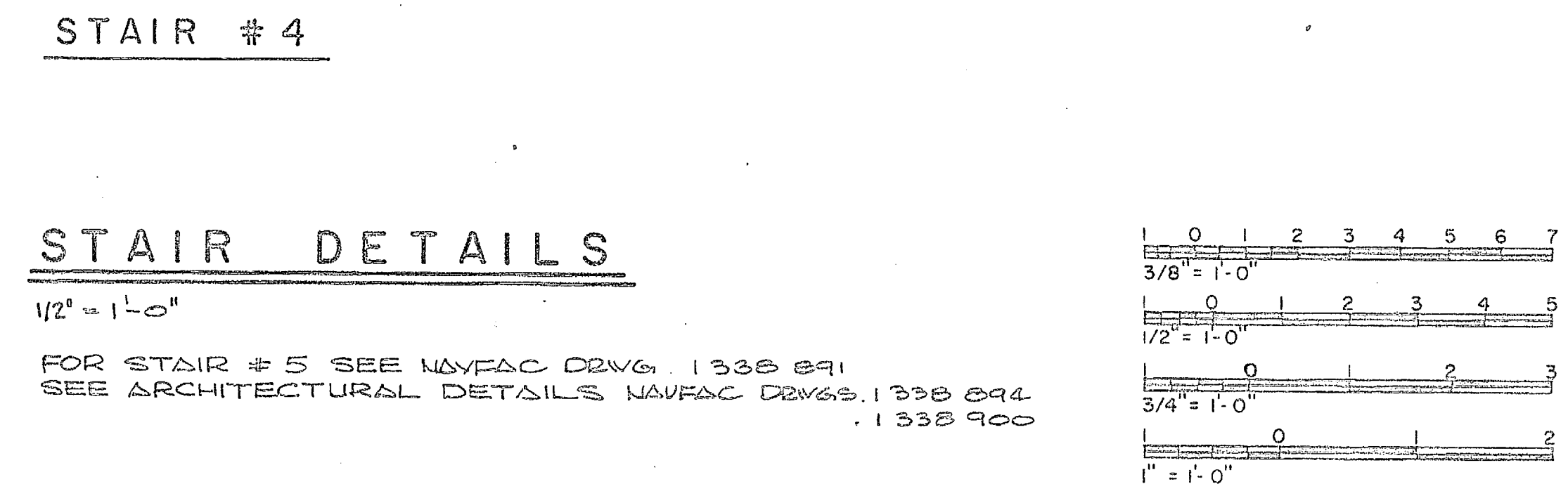
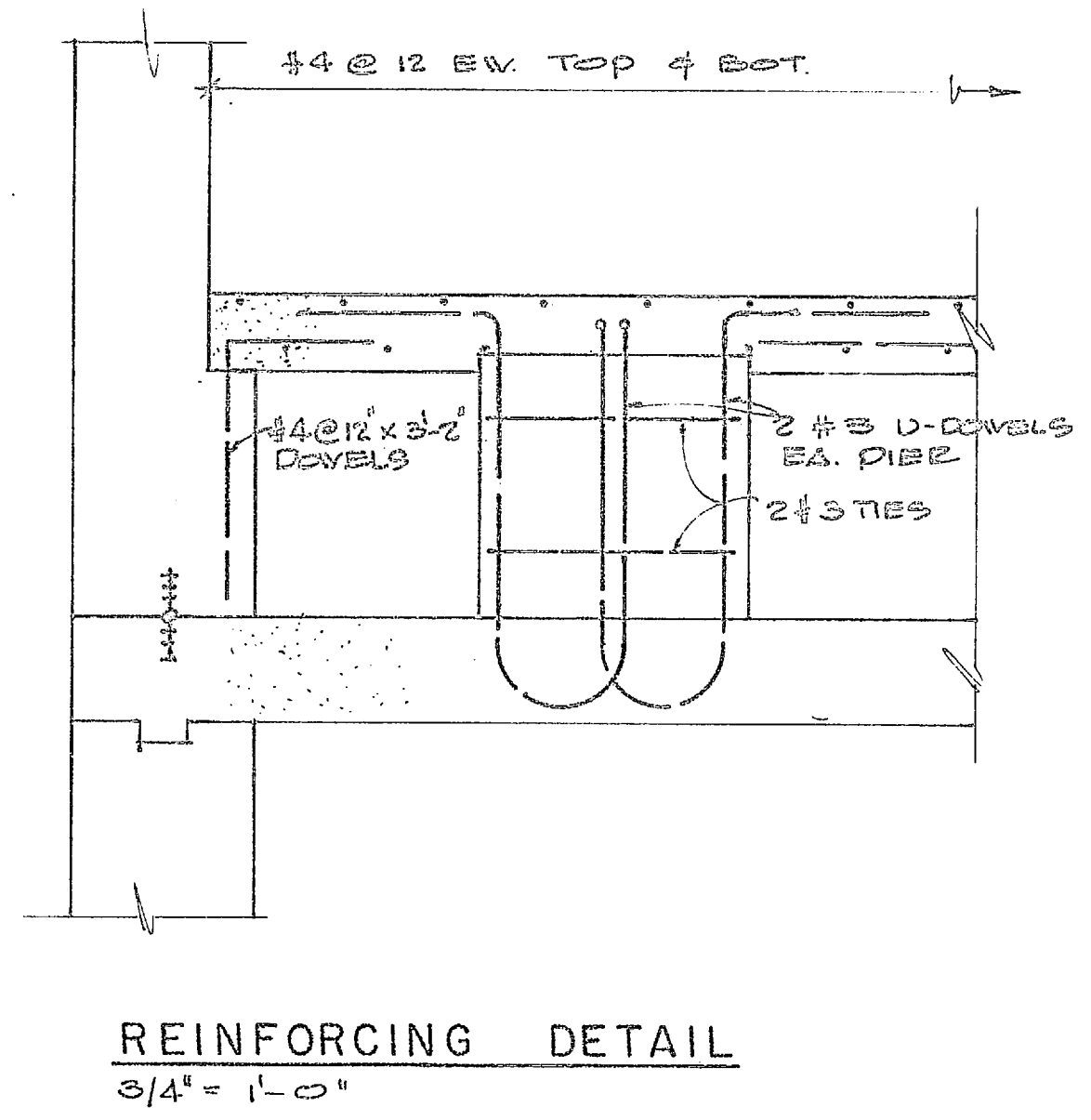
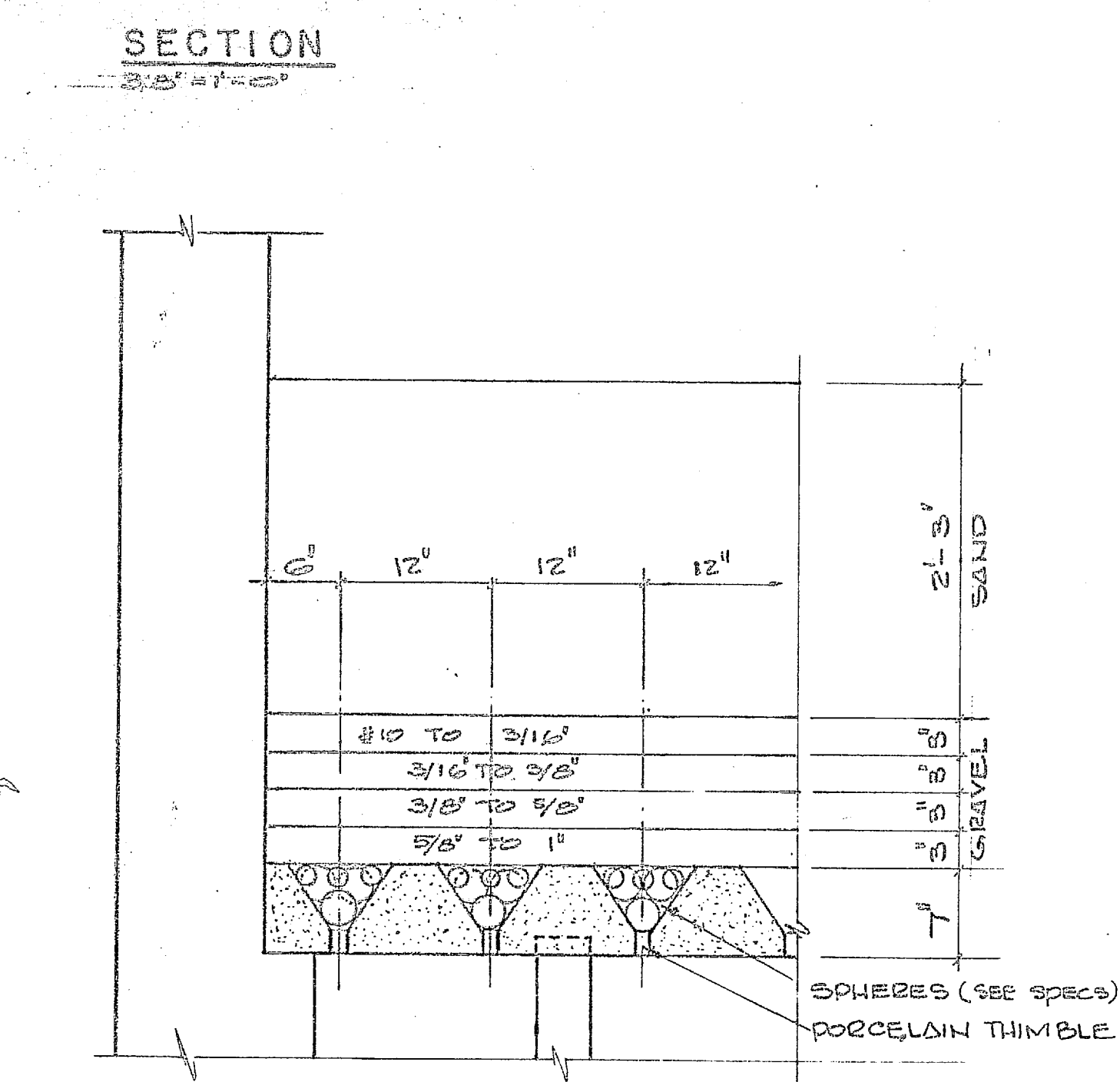
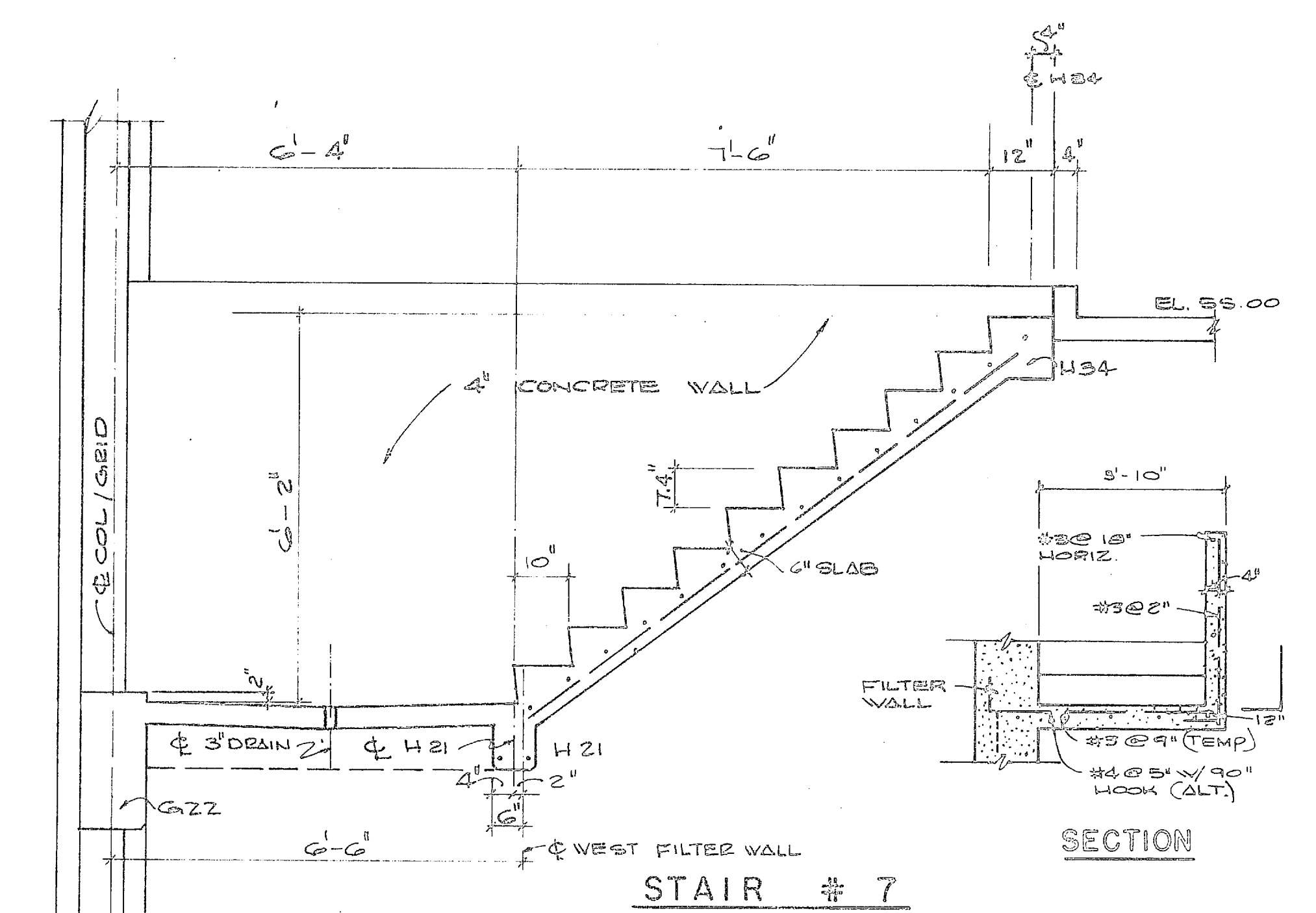
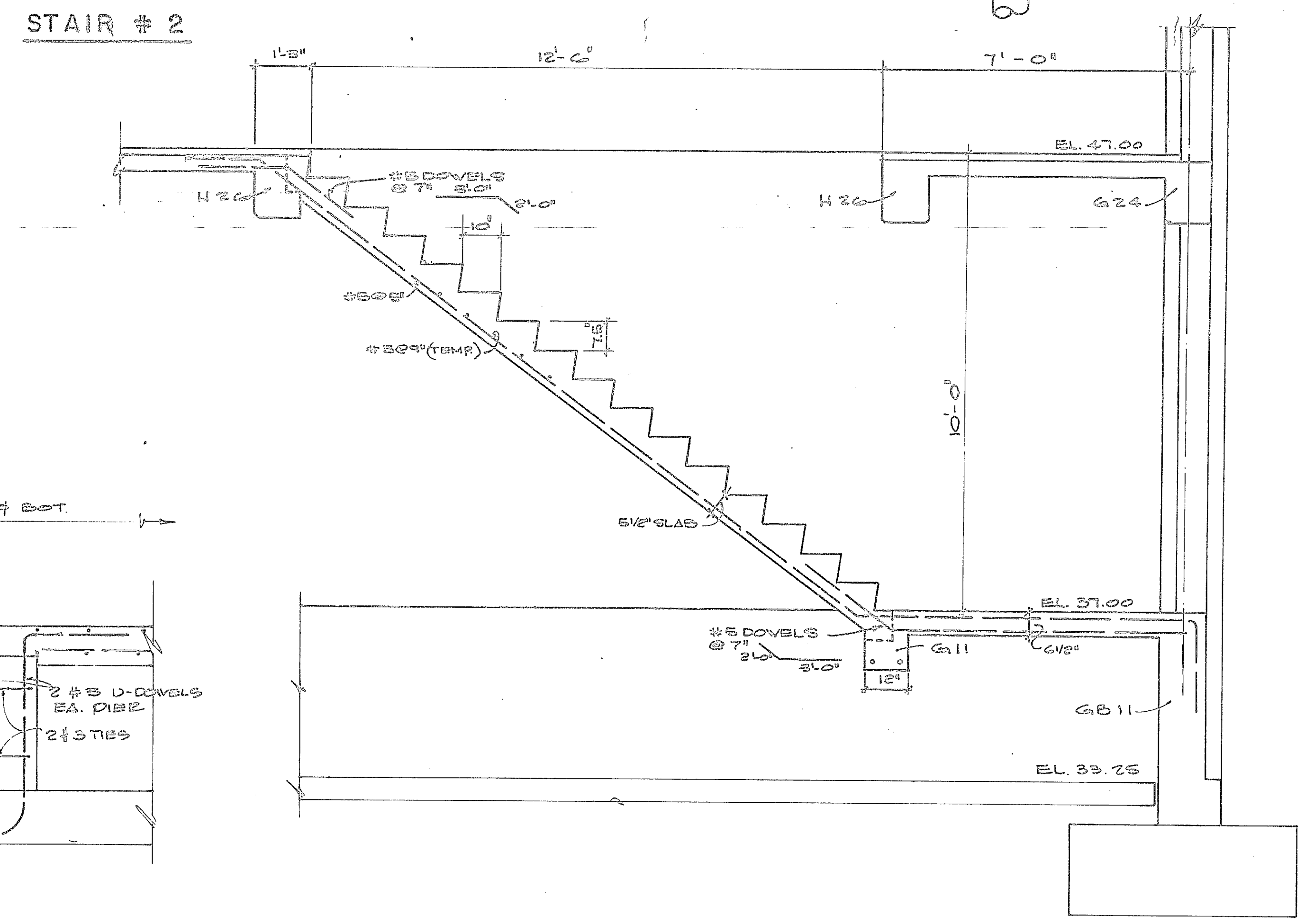
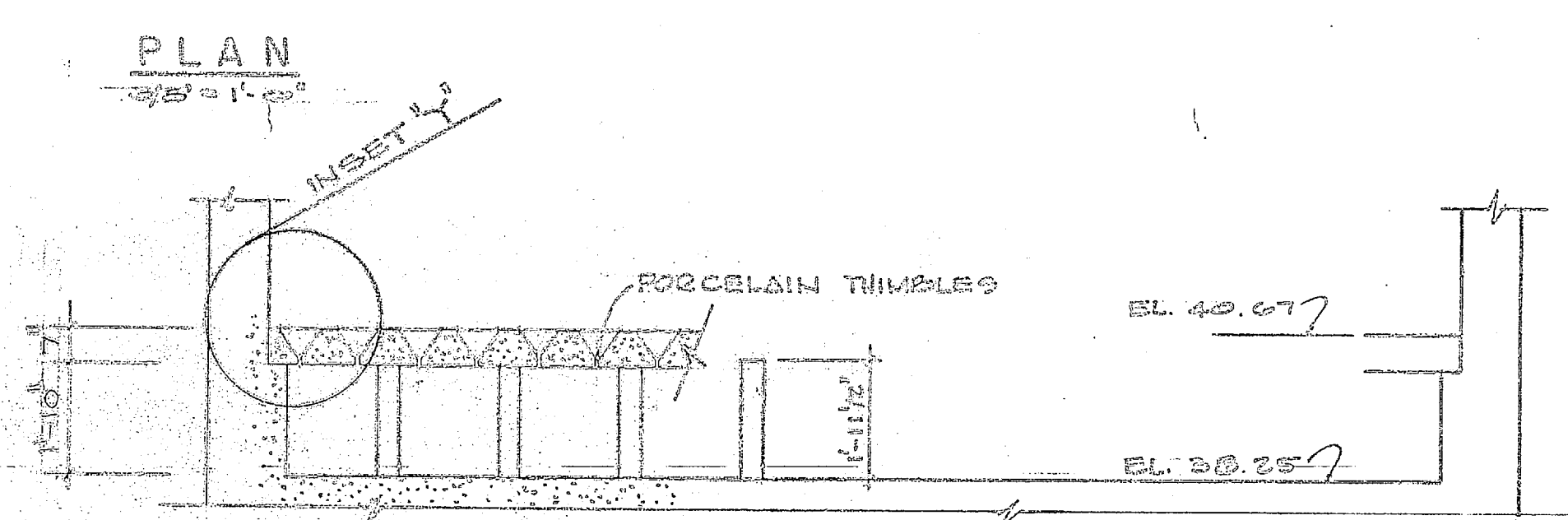
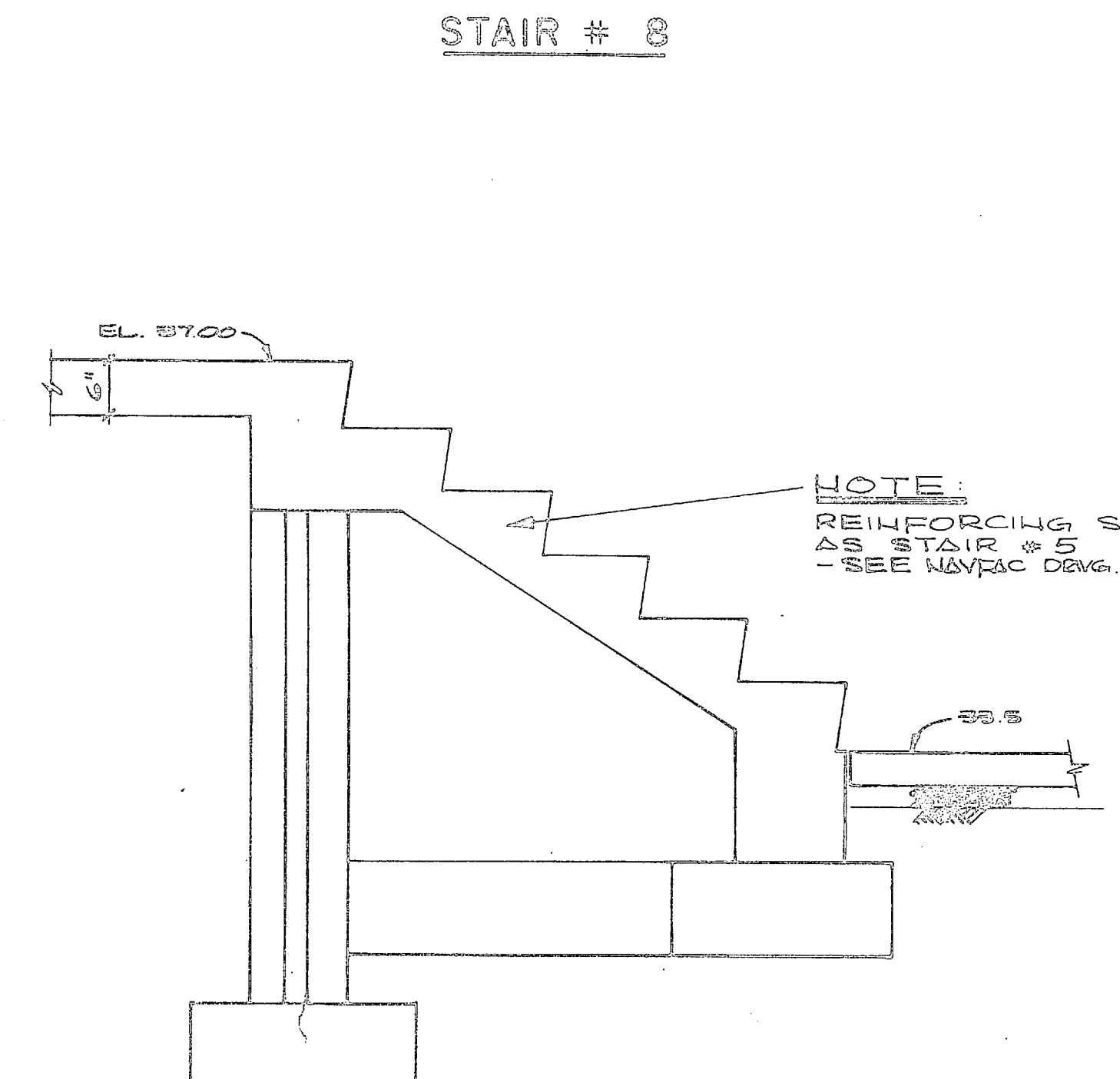
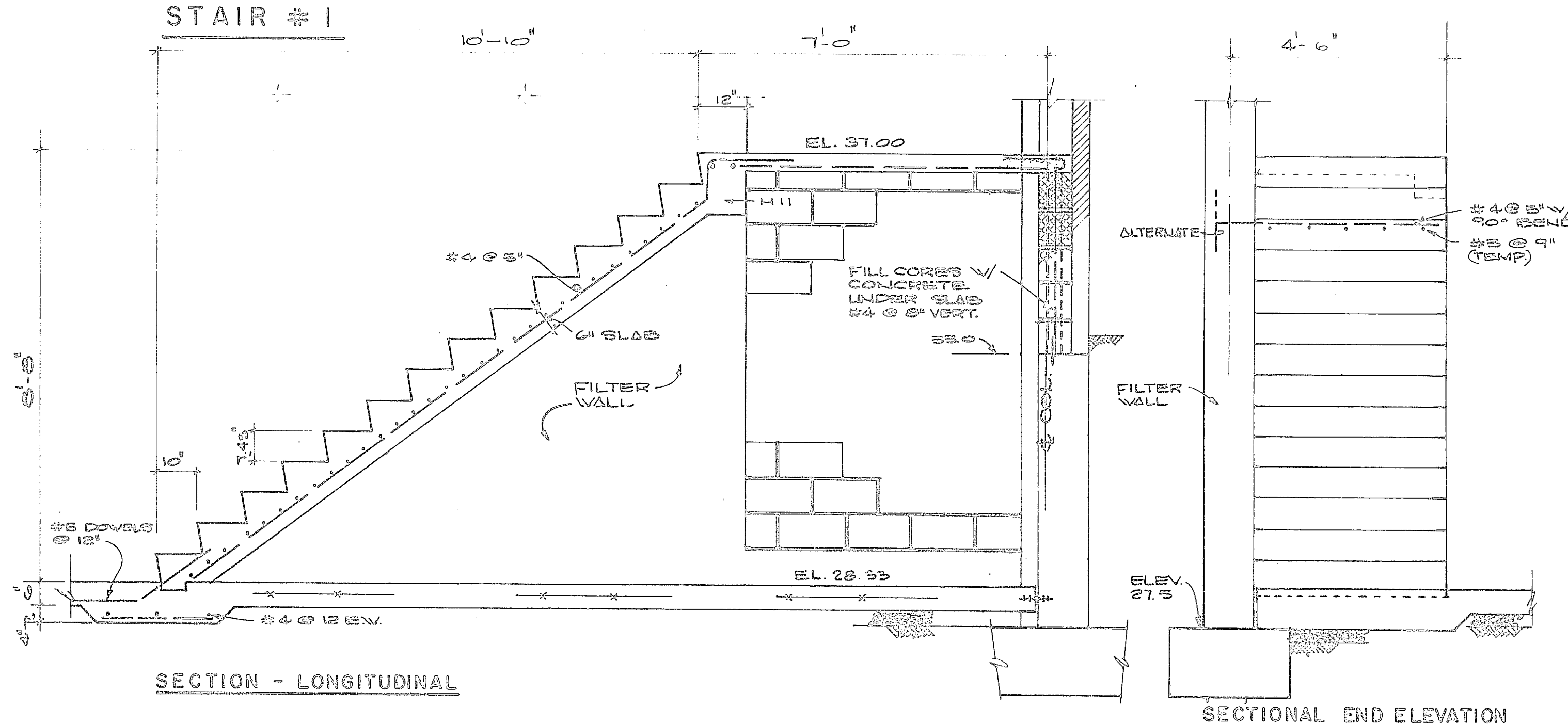
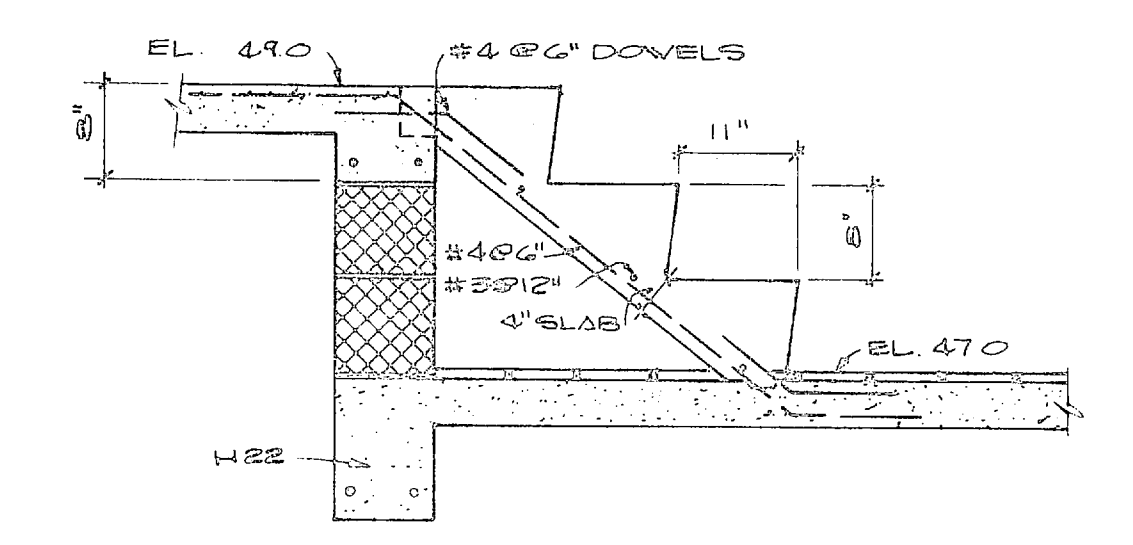
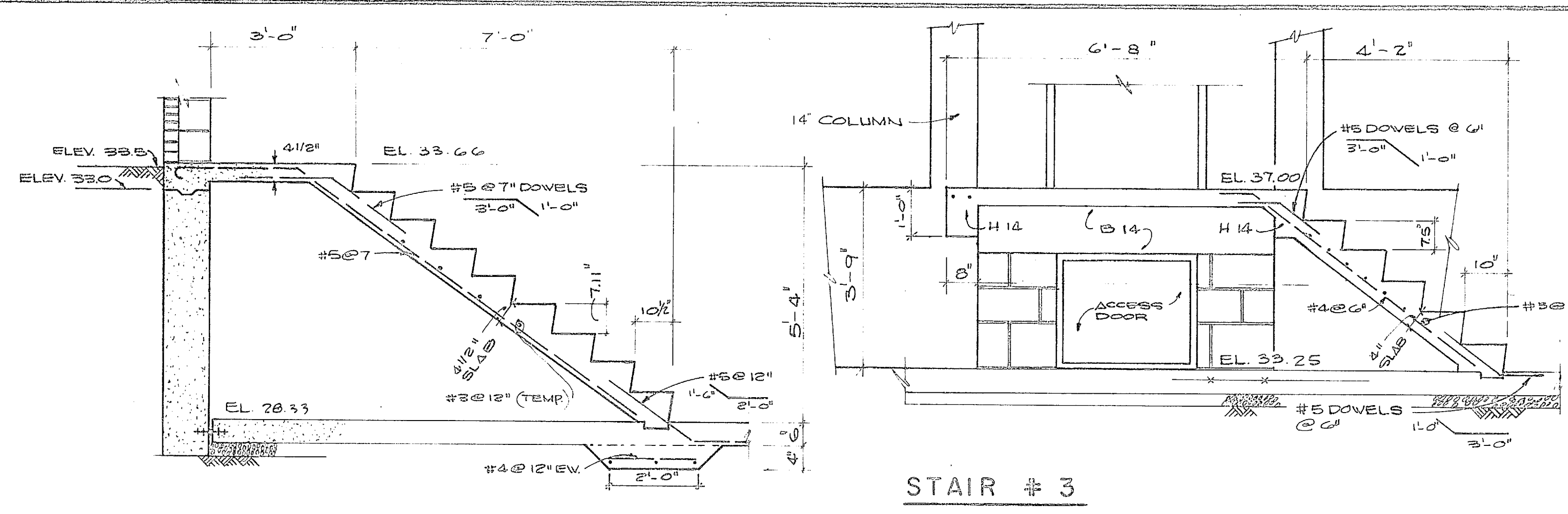
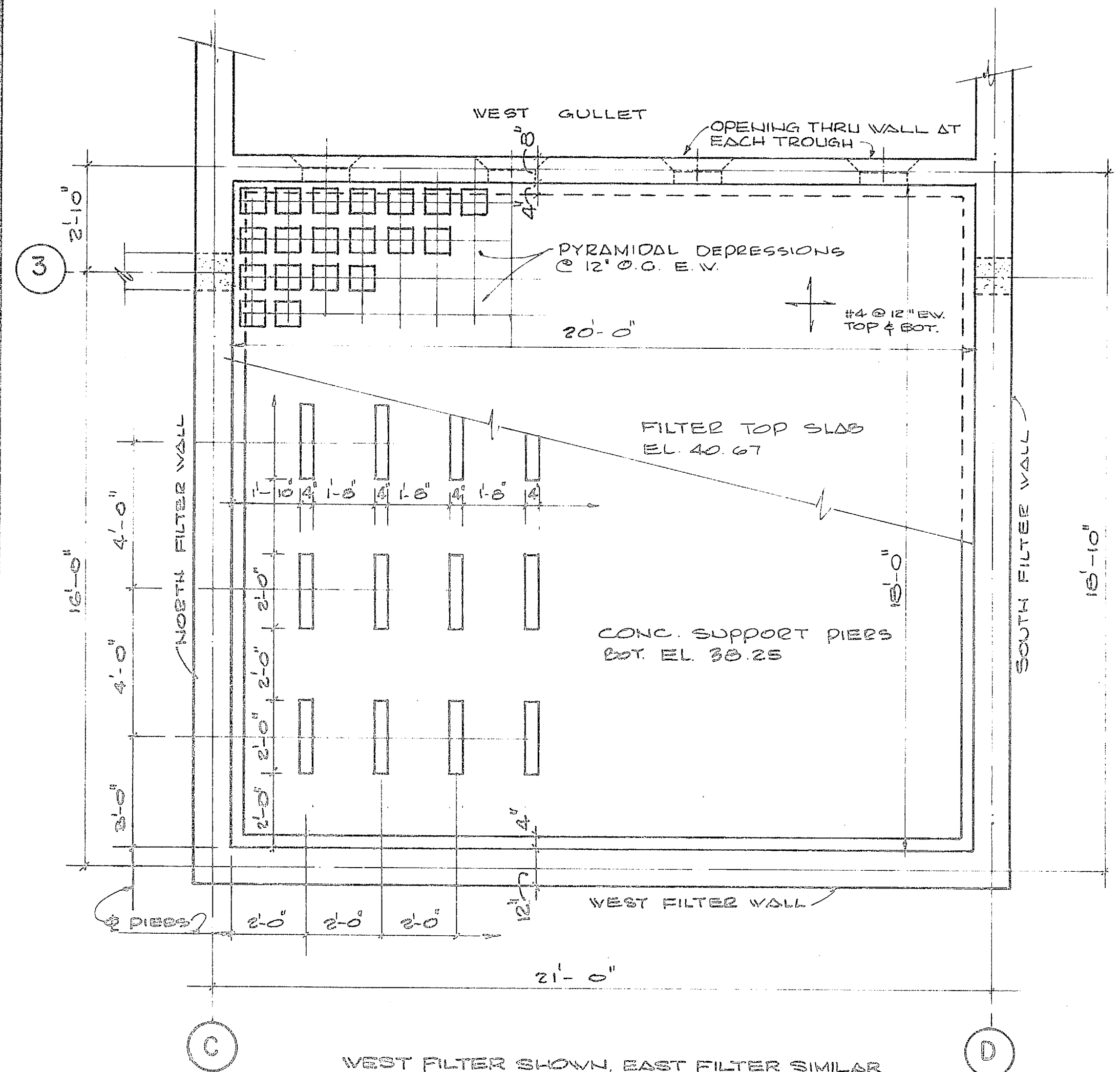
TYPICAL WALL REINFORCING DETAILS
NO SCALE

NOTE
PROVIDE 2" MIN. COVER ON REINF. WHERE EXPOSED TO WATER.

HENRY VOI OREIN & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, N. C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NORFOLK, VA.	
DES. J.R.A.	CHK. A.W.	CHK. CSD	DATE
SUPV. H.V.O.	CHK. DWH.	J.R.B.	DATE
DRWN. J. J. ...	DATE	DATE	DATE
PROJECT: WATER TREATMENT PLANTS WELLS AND DISTRIBUTION SYSTEM CAMP LEJEUNE, NORTH CAROLINA		DRAWING NO.: 1338 909	
SHEET 21 OF 40		DATE: 03-70-0359	



REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



INSET "Y"
SCALE AS SHOWN
FILTER BOTTOM DETAILS

SECTION - LONGITUDINAL

SECTIONAL END ELEVATION

STAIR # 2

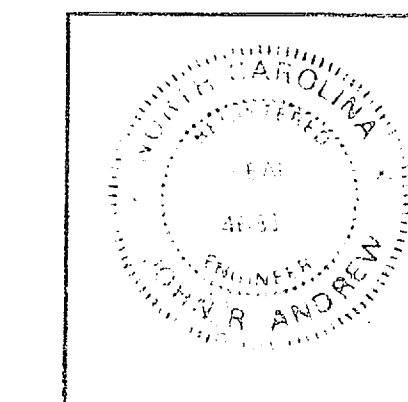
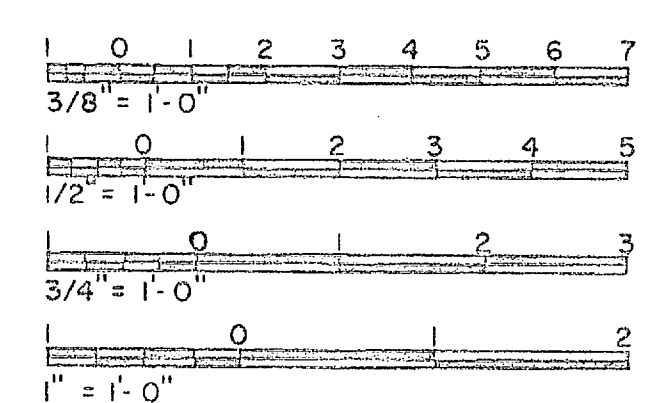
STAIR # 4

STAIR # 6 8 9

STAIR # 7

STAIR DETAILS

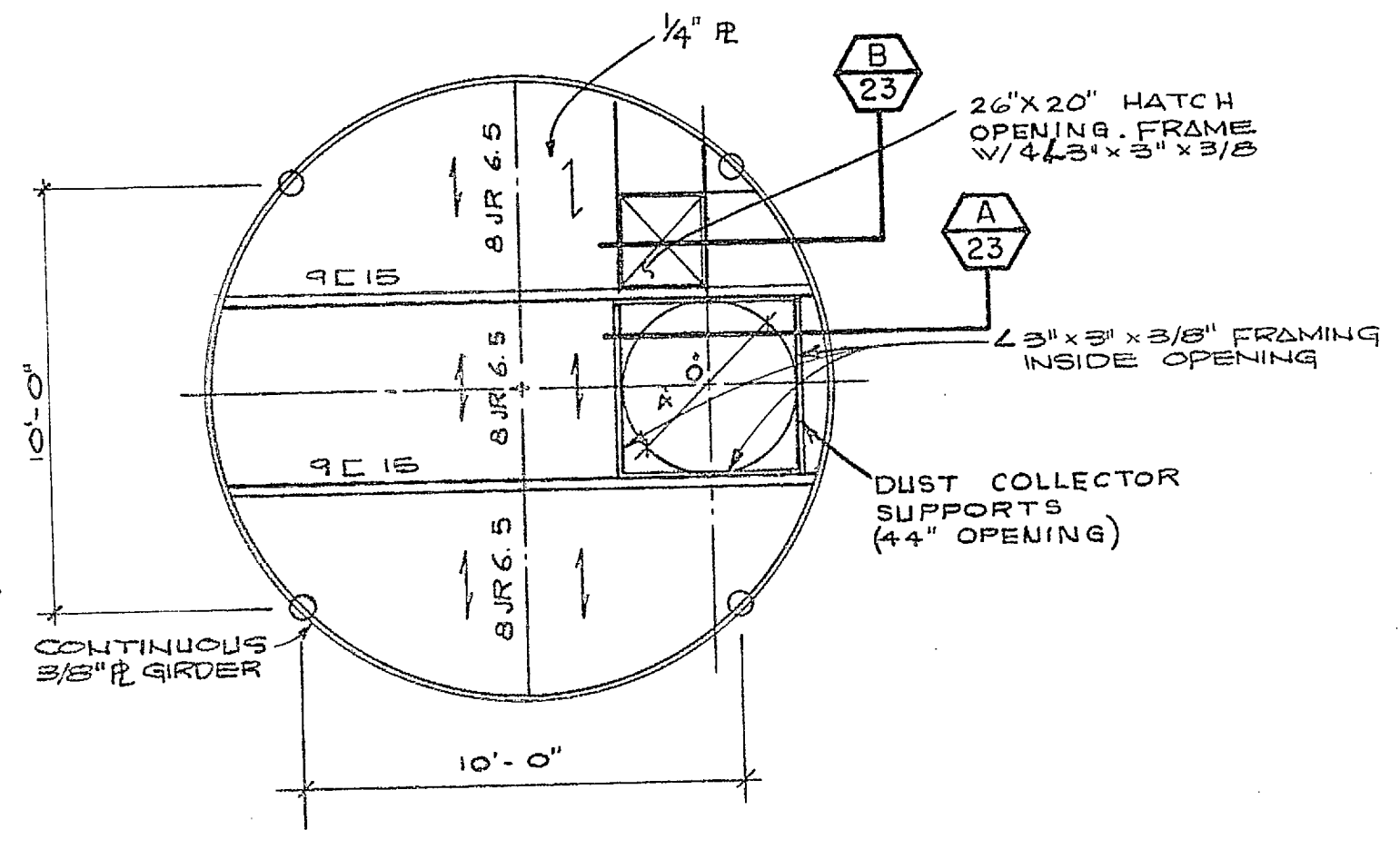
1/2" = 1'-0"
FOR STAIR # 5 SEE NAVFAC DWG. 1338 891
SEE ARCHITECTURAL DETAILS NAVFAC DWGS. 1338 894
1338 900



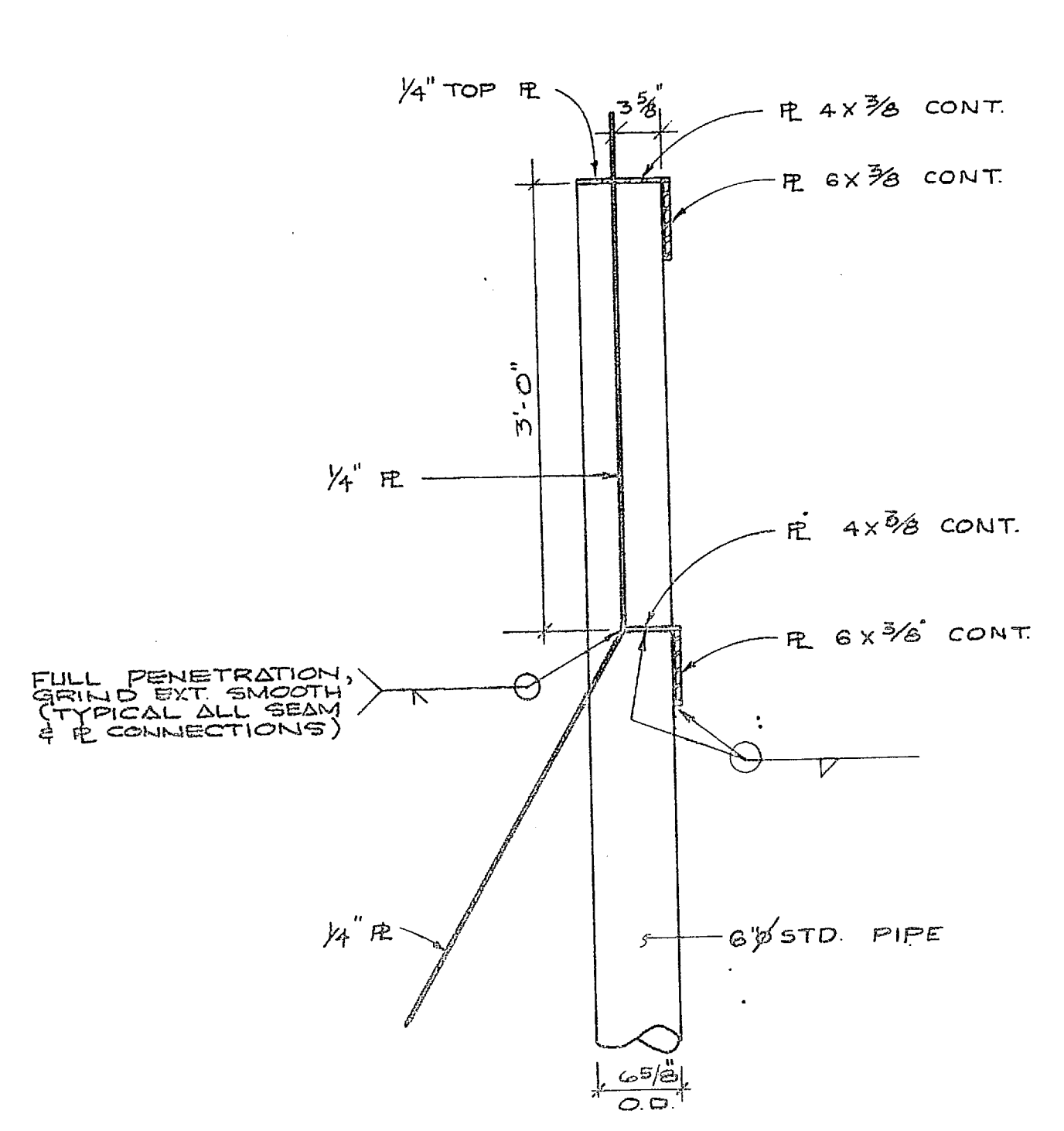
HENRY VON OESSEN & ASSOCIATES CONSULTING ENGINEERS VIRGINIA, E.C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NORFOLK, VA	
DES. J.R.A.	DR. A.W.	CHL. C.E.D.	NAVAL STATION
SUPV. H.V.O.	DR. ENGR. J.R.B.	DATE	WATER TREATMENT PLANTS, WELLS AND DISTRIBUTION SYSTEM CAMP LEJEUNE, NORTH CAROLINA
DESIGNED BY J.R.A.	DATE 5/15/50	NO. 80091	TREATMENT PLANT FILTER SECTIONS @ DETAILS
APPROVED J.R.A.	DATE 5/15/50	CODE IDENT. NO. 80091	NAVFAC DRAWING NO. 1338 910
PUBLIC WORKS OFFICER J.R.A.	DATE 5/15/50	CONTRACT NO. N62470-70-R-0938	NAVY CONTRACT NO. N62470-70-R-0938
DATE 5/15/50		NAVY CONTRACT NO. N62470-70-R-0938	
SCALE AS SHOWN		EFD DWG. NO. 64910	



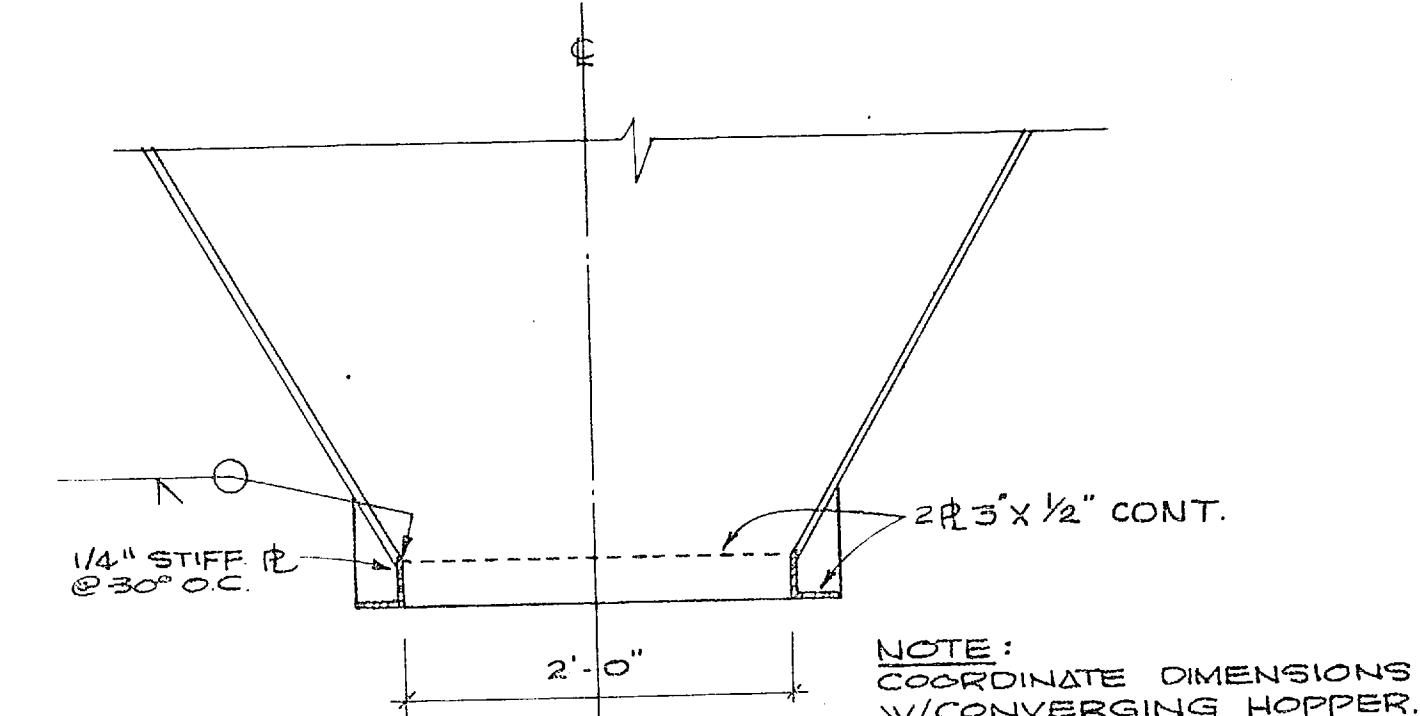
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



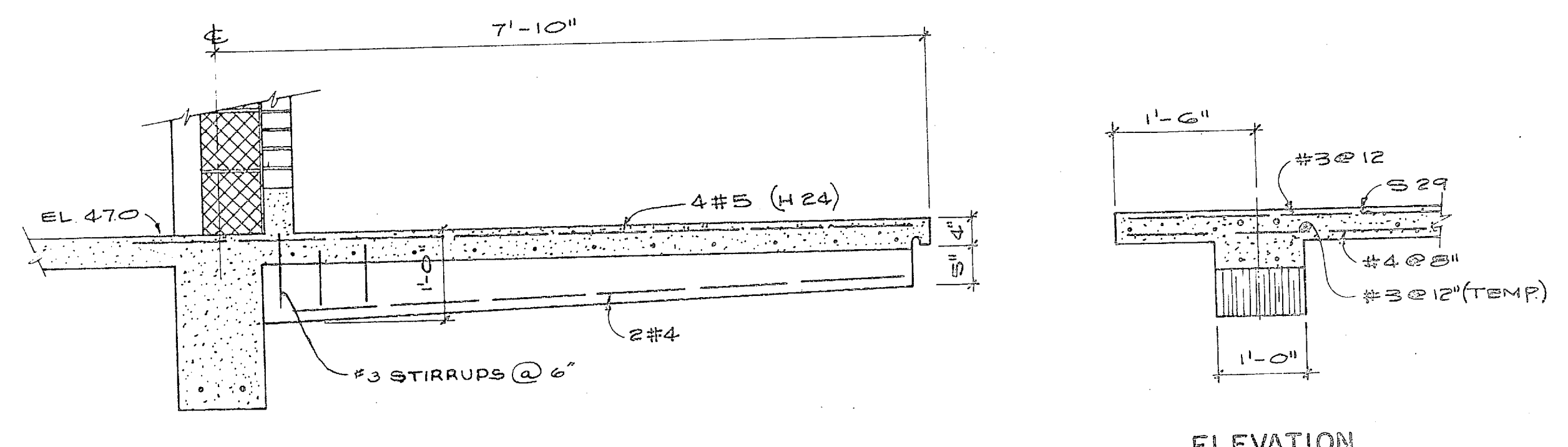
PLAN
1/2" = 1'-0"



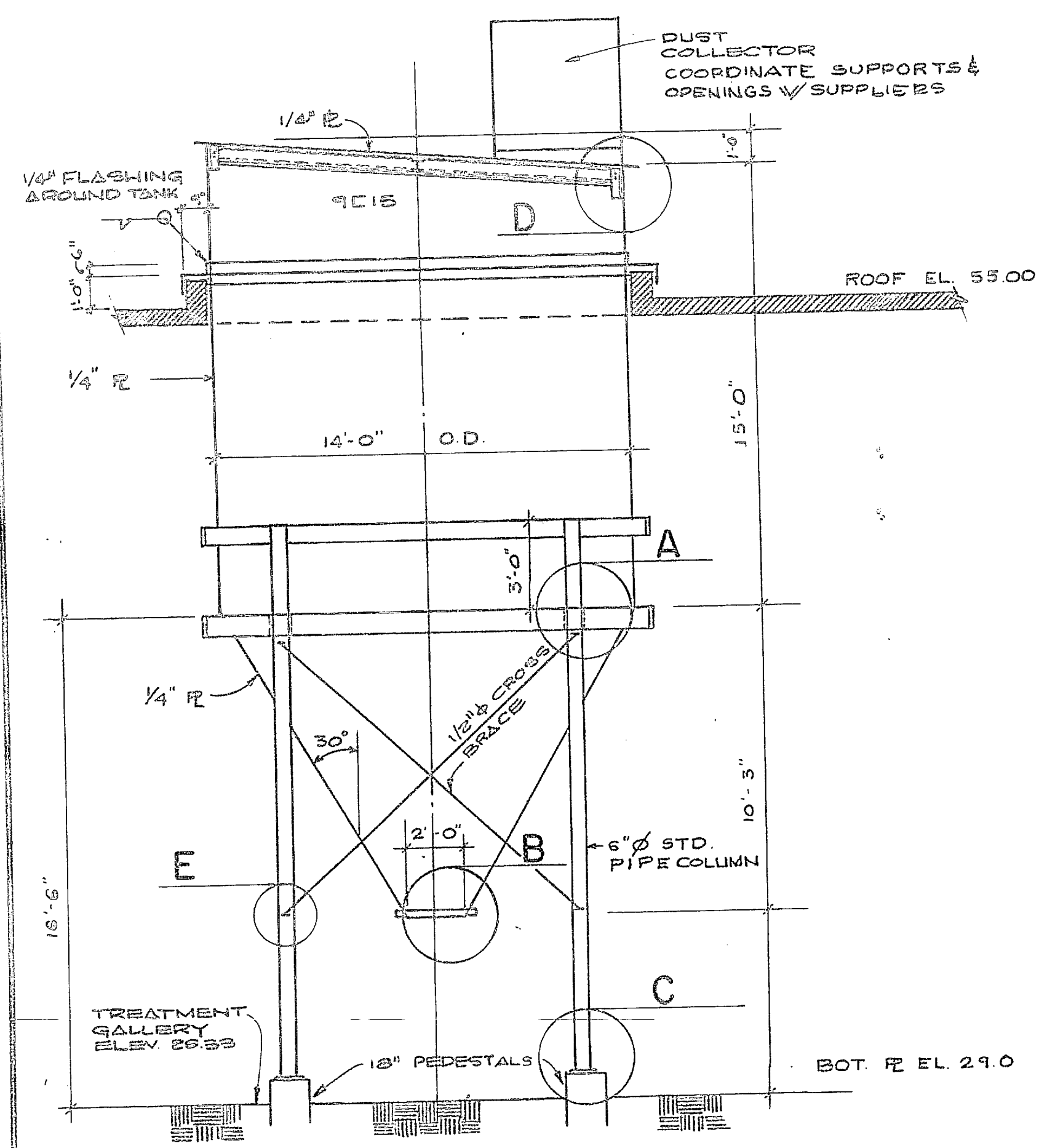
SECTION



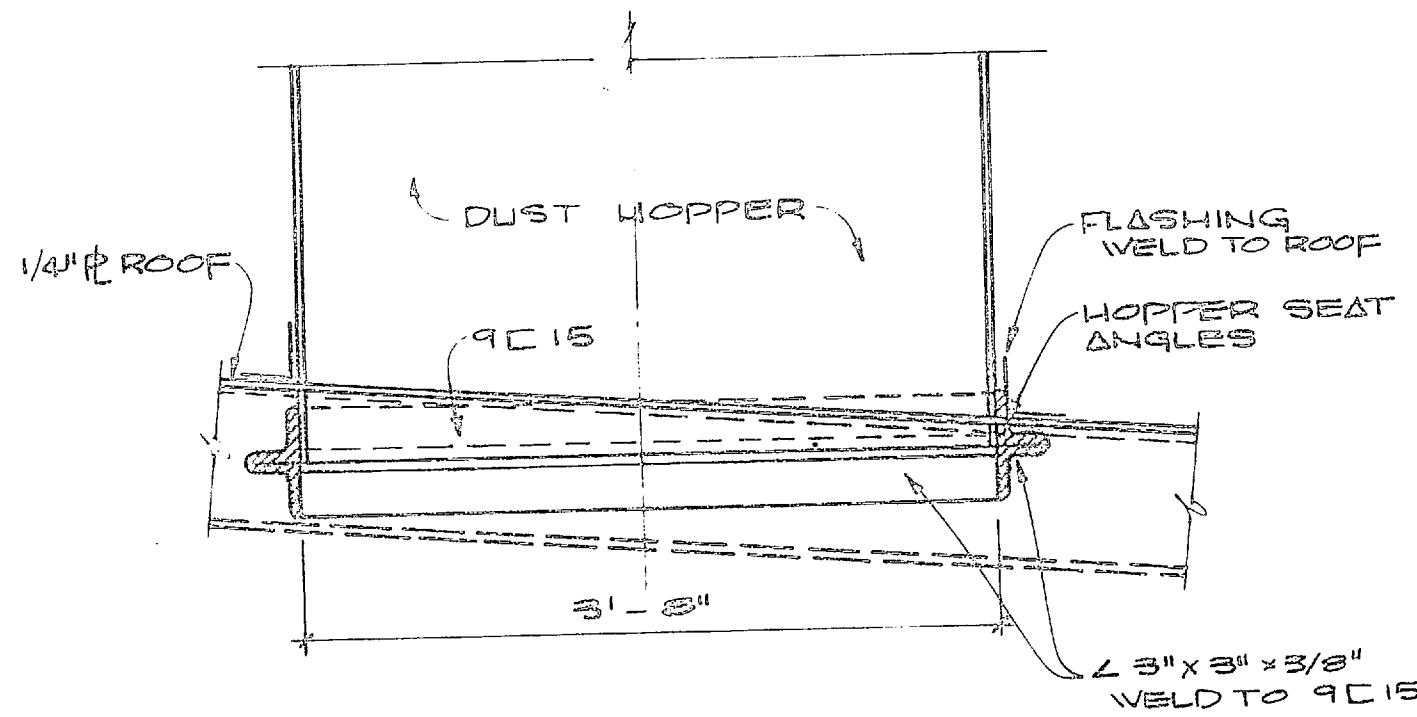
DETAIL B
1" = 1'-0"



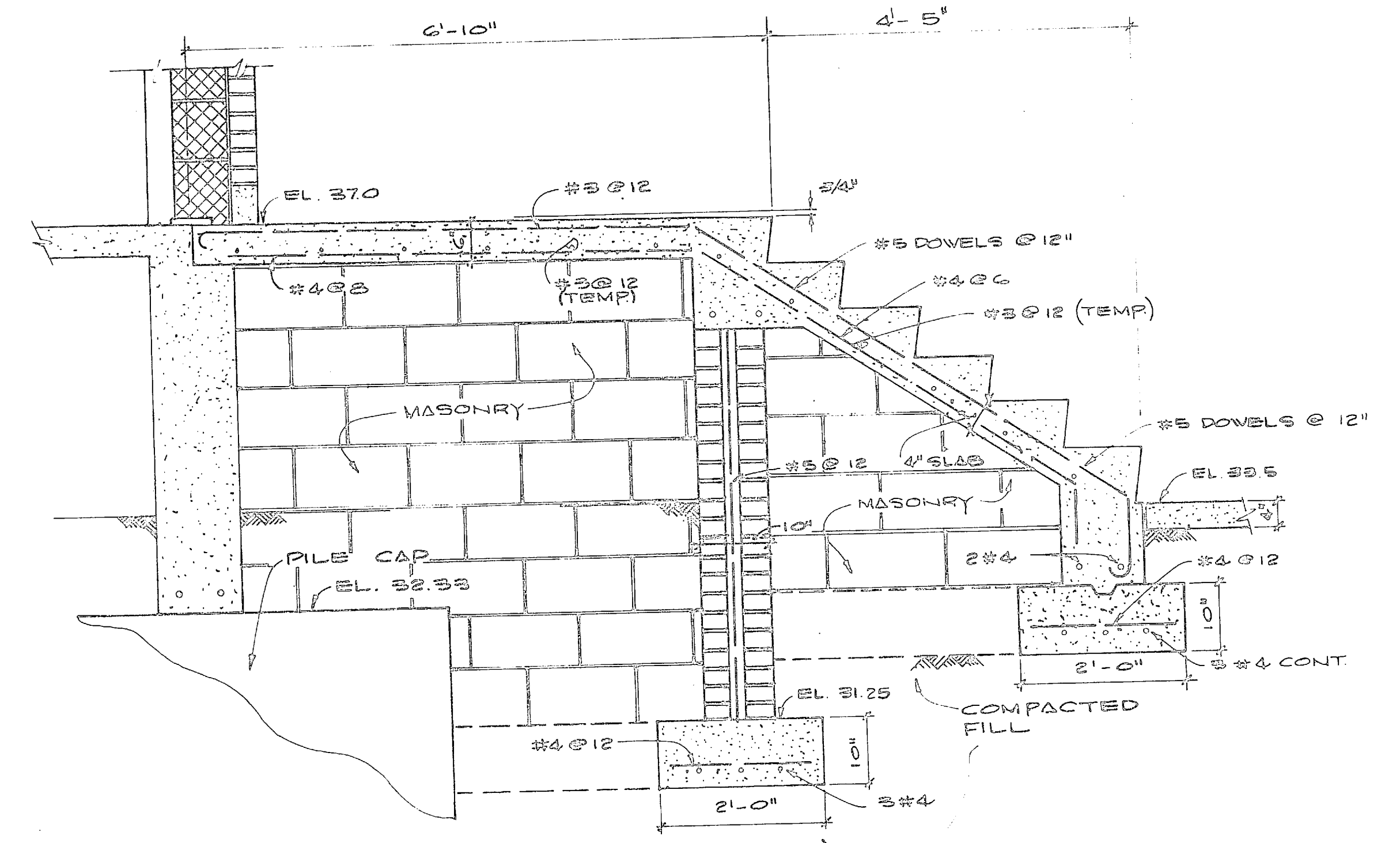
ELEVATION



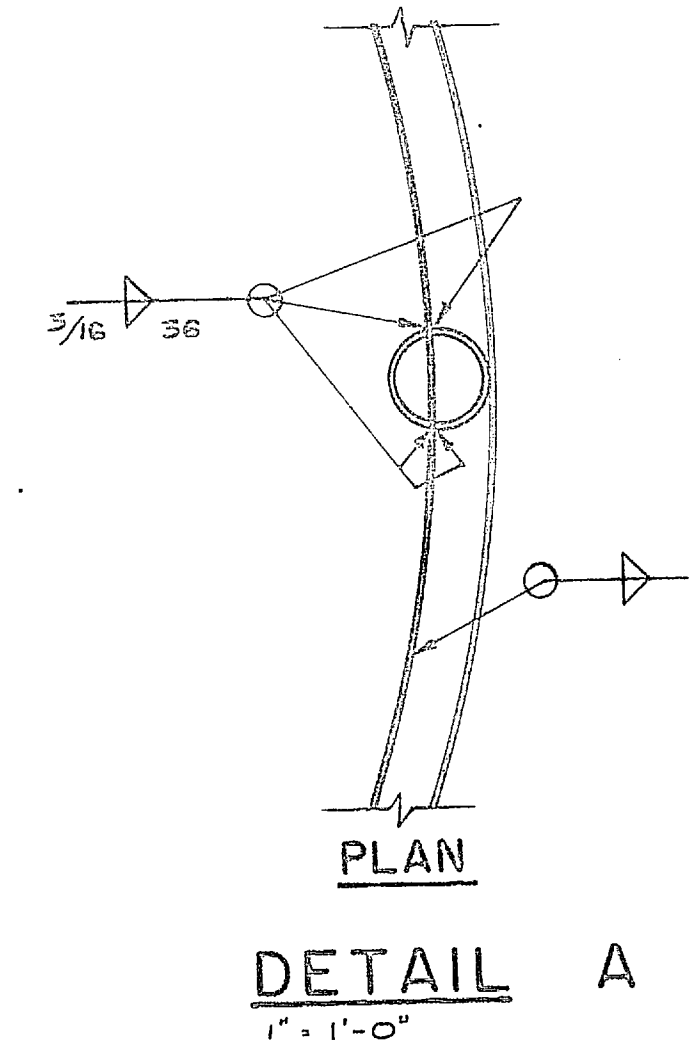
ELEVATION
1/4" = 1'-0"



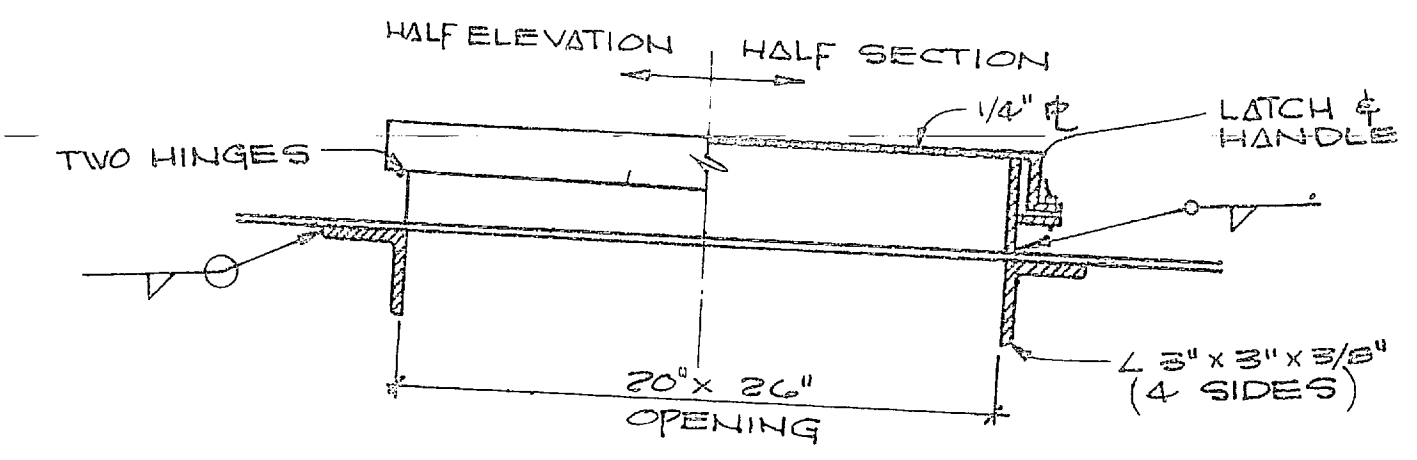
SECTION A
1" = 1'-0"



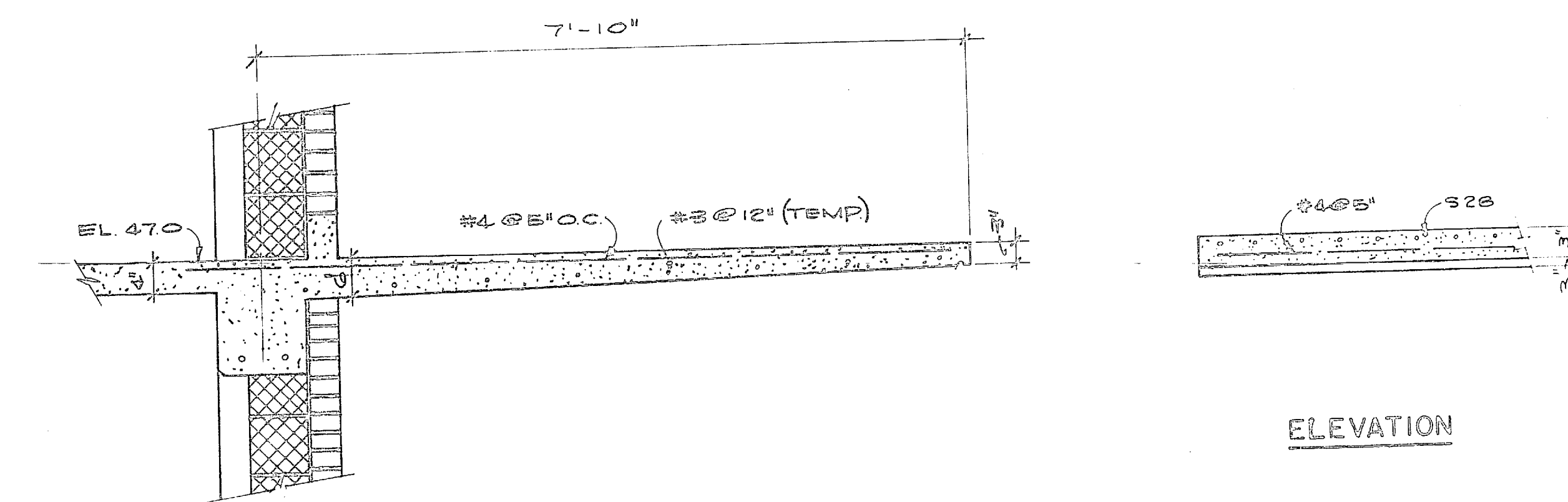
ENTRY CANOPY & STAIR NO. 5
3/4" = 1'-0"



DETAIL A
1" = 1'-0"

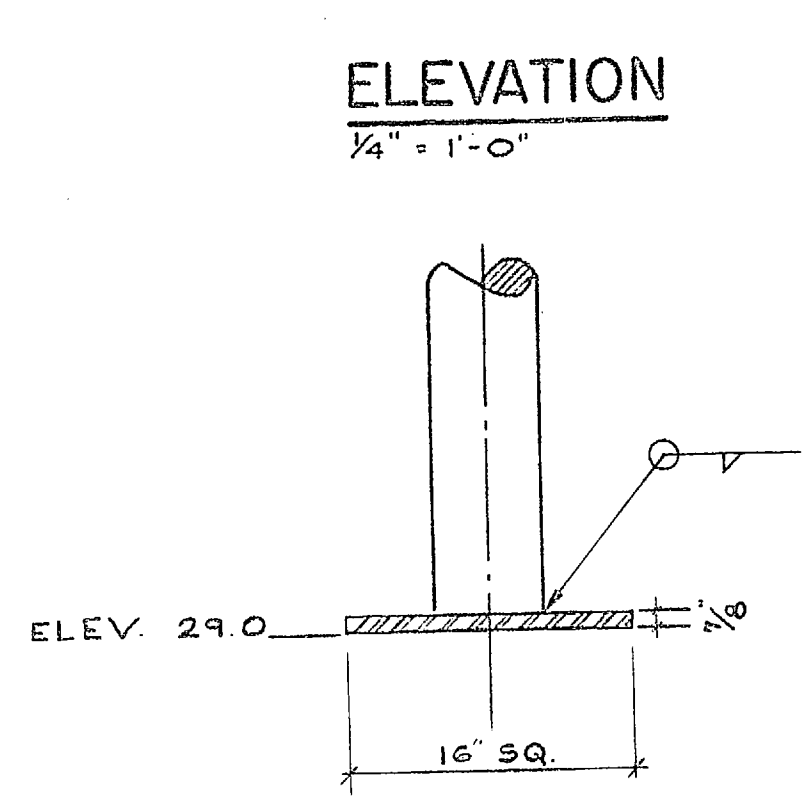


SECTION B
1 1/2" = 1'-0"

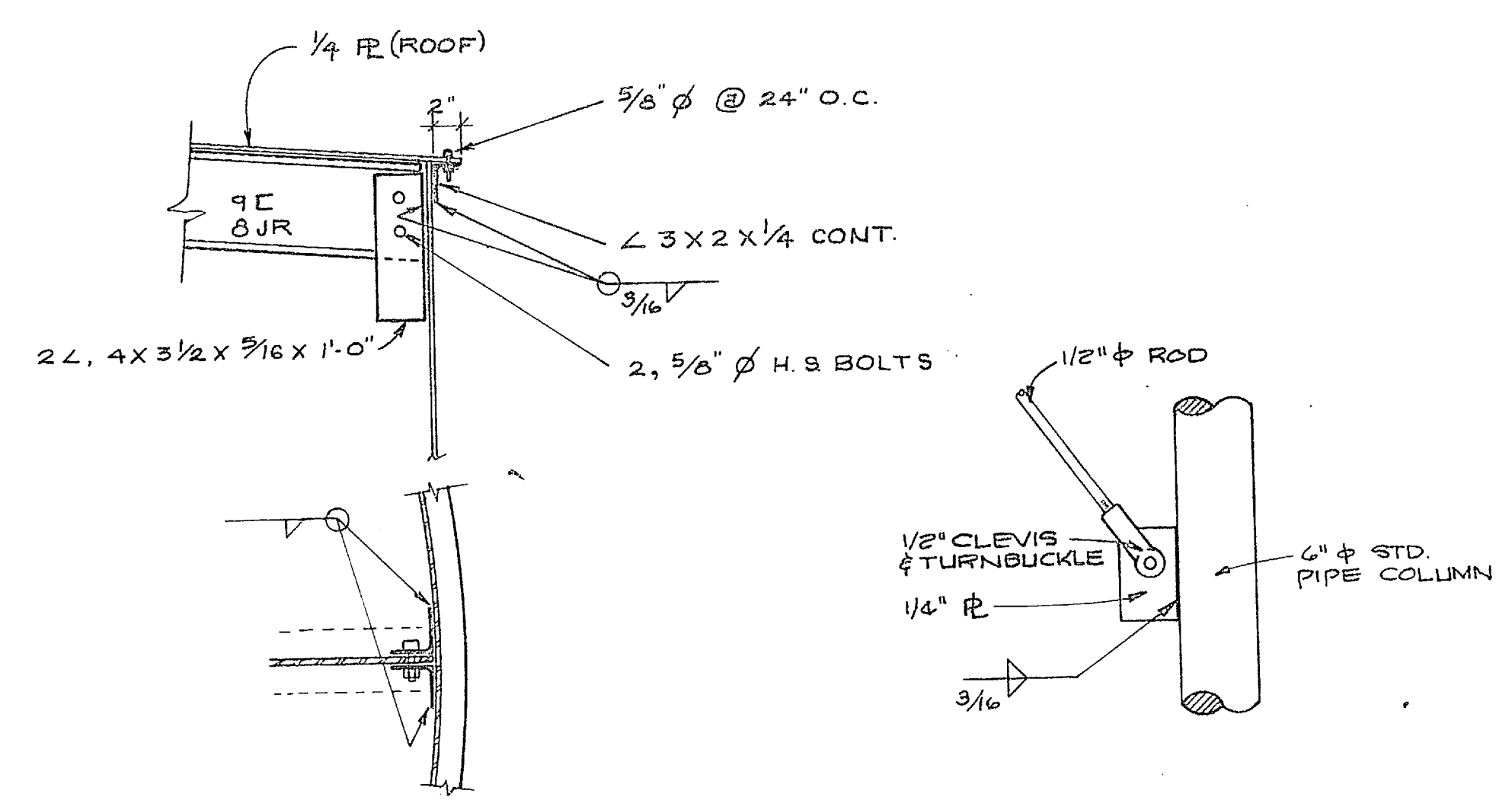


ELEVATION

LOADING DOCK CANOPY
3/4" = 1'-0"



DETAIL C
1" = 1'-0"

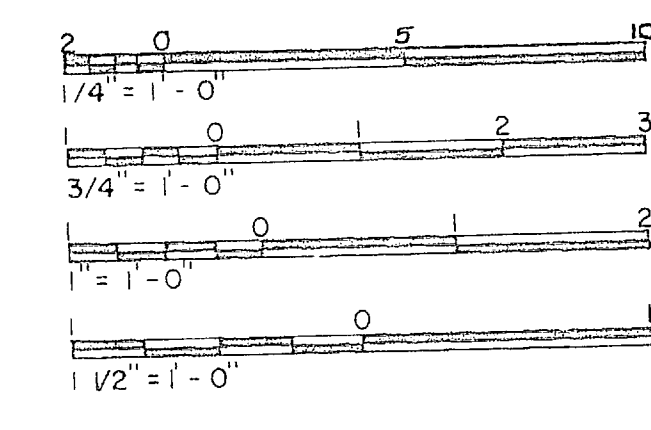


DETAIL D
1" = 1'-0"

DETAIL E
1" = 1'-0"

LIME HOPPER
SCALE AS SHOWN

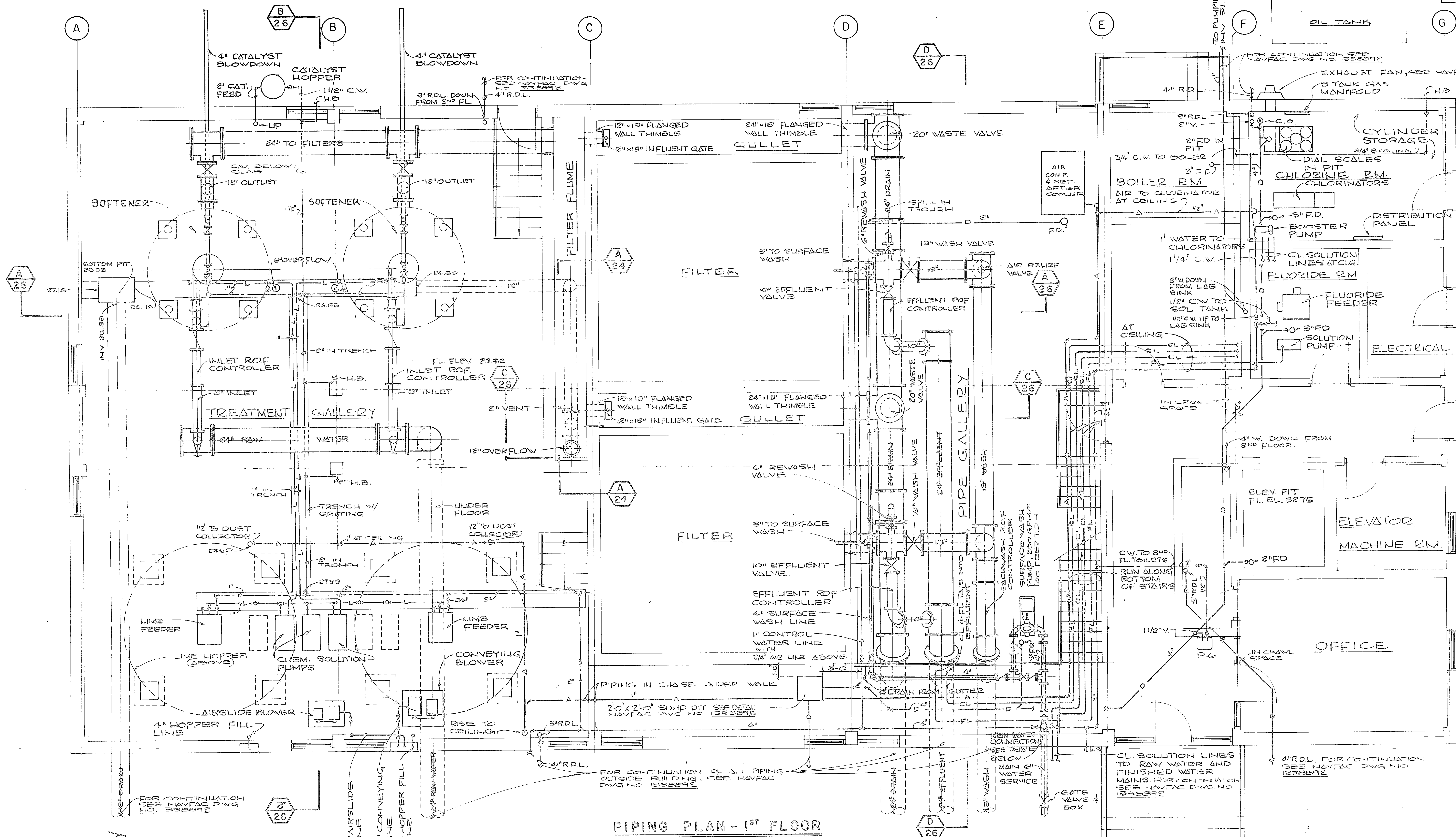
NOTE: USE A36 STEEL W/ E70 ELECTRODES. FRAMING CONNECTIONS SHALL BE WELDED OR SHALL USE 5/8" MIN. ASTM A325 BOLTS.



HENRY VON BESH & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, N. C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NORFOLK, VA.	
DES. J.R.B.	DR. M.M.	CHK. J.C.B.	DATE
SUPV. J.R.B.	CH. ENGR. J.R.B.	DATE	
SUBMITTED BY	DATE		
FILE NUMBER	REV. VLS		
APPROVED	DATE		
PUBLIC WORKS OFFICER	DATE		
PROJECT NO. 80091	NAVAC DRAWING NO. 1338 911		
SCALE: AS SHOWN	SPAC 05-70-0959	SHEET 23 OF 49	

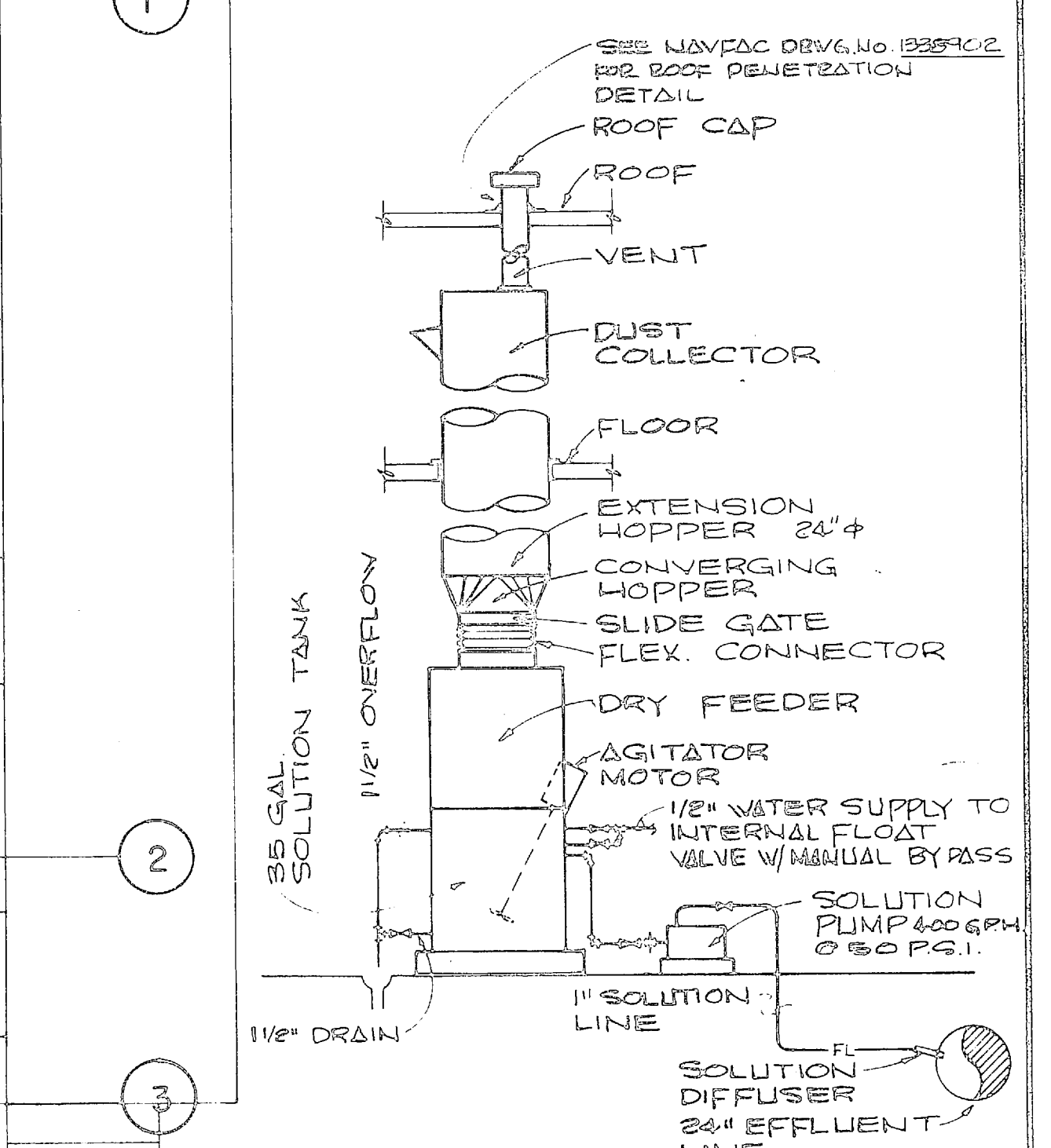
84911

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED

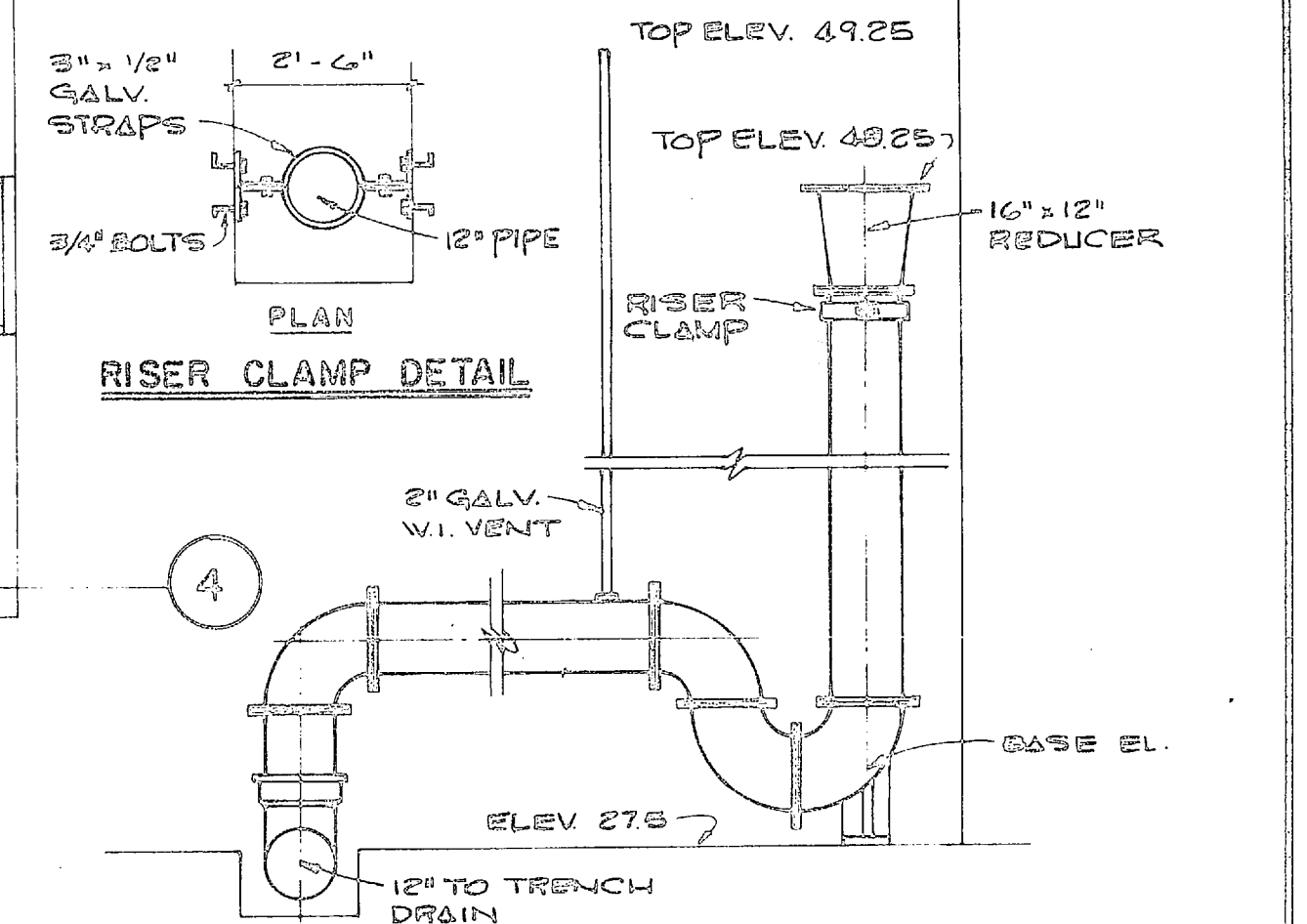


PIPING PLAN - 1ST FLOOR
SCALE: 1/4" = 1'-0"

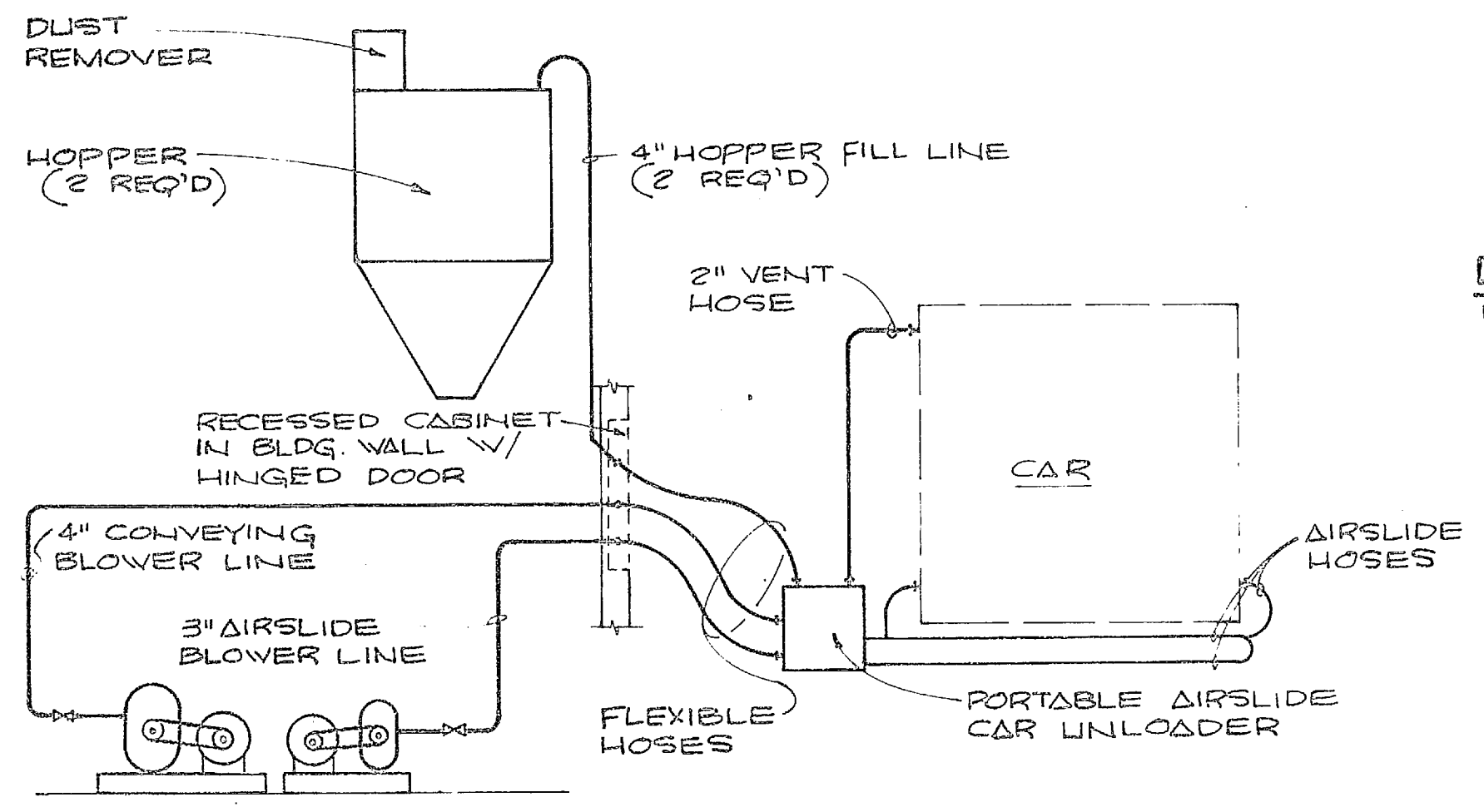
- LEGEND:**
- COLD WATER PIPING
 - HOT WATER PIPING
 - WASTE PIPING
 - VENT PIPING
 - DRAIN PIPING
 - AIR PIPING
 - LINE SOLUTION PIPING
 - CHLORINE SOLUTION PIPING
 - FLUORIDE SOLUTION PIPING
 - ROOF DRAIN PIPING
 - SURGE ARRESTOR
 - COLUMN LINES



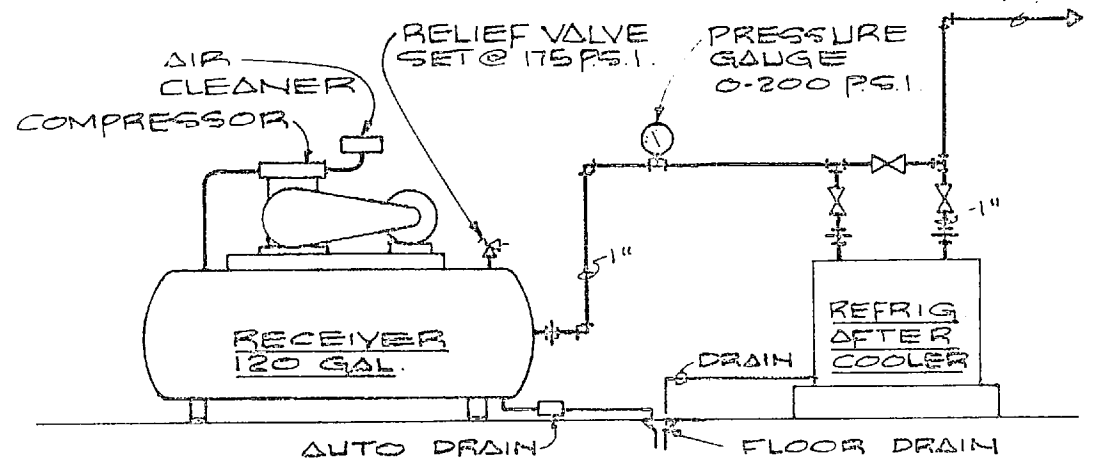
FLUORIDATOR DIAGRAM
NO SCALE



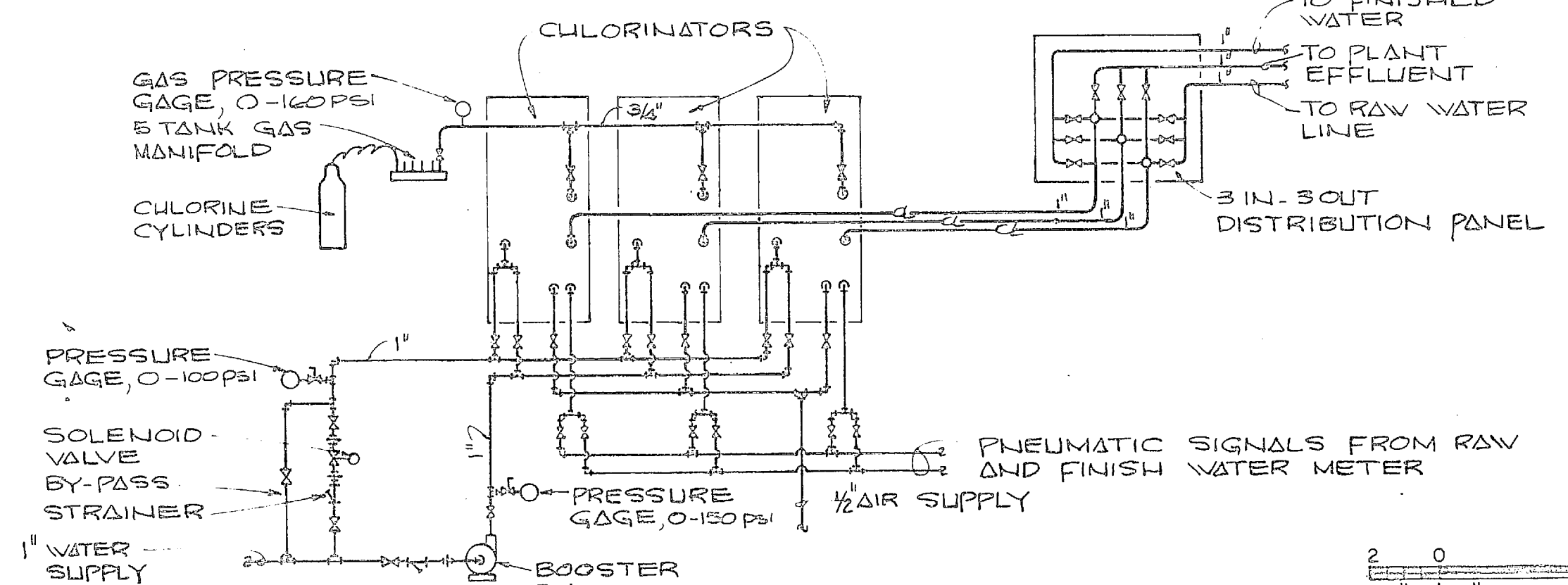
FILTER FLUME OVERFLOW DETAIL
SCALE: 3/8" = 1'-0"



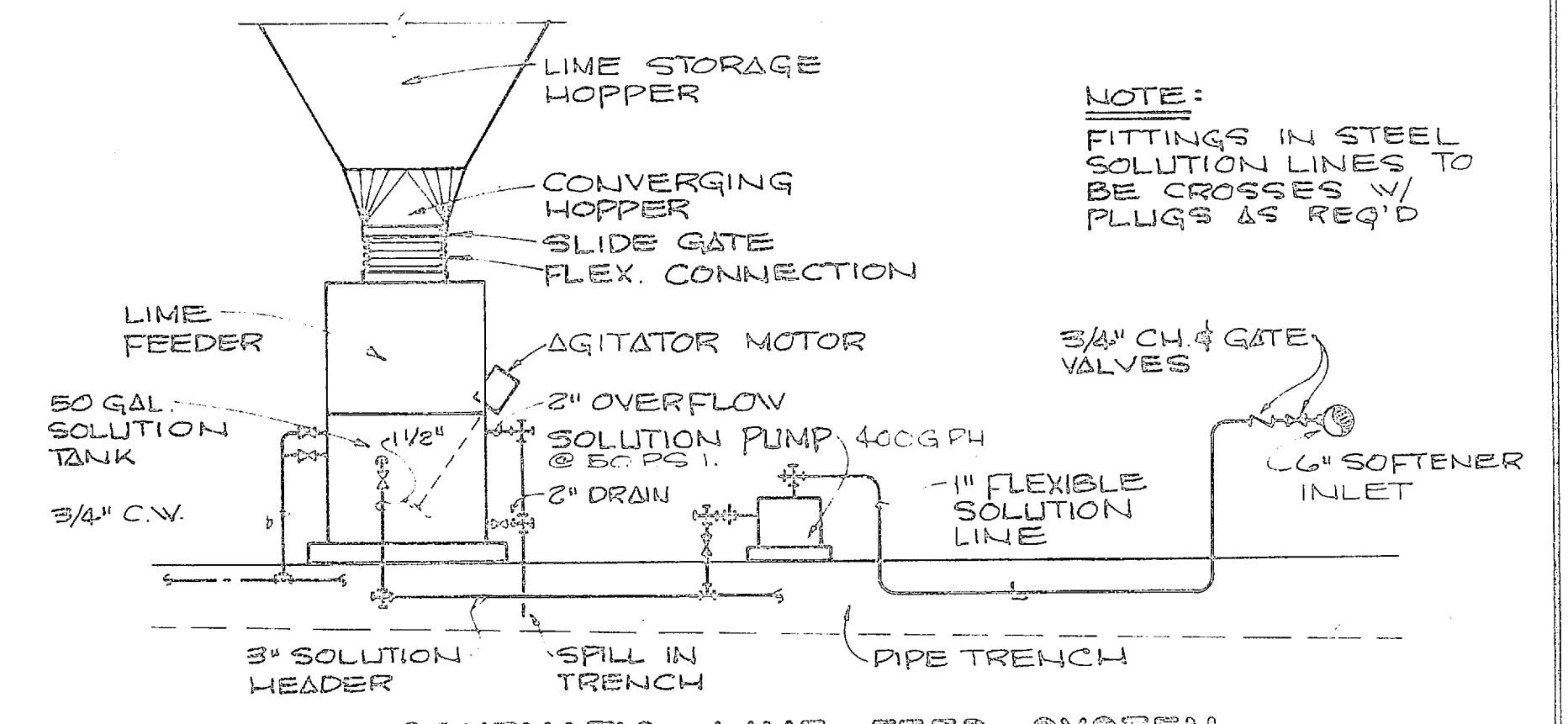
CAR UNLOADING SYSTEM DIAGRAM
NO SCALE



AIR COMPRESSOR DETAIL
NO SCALE



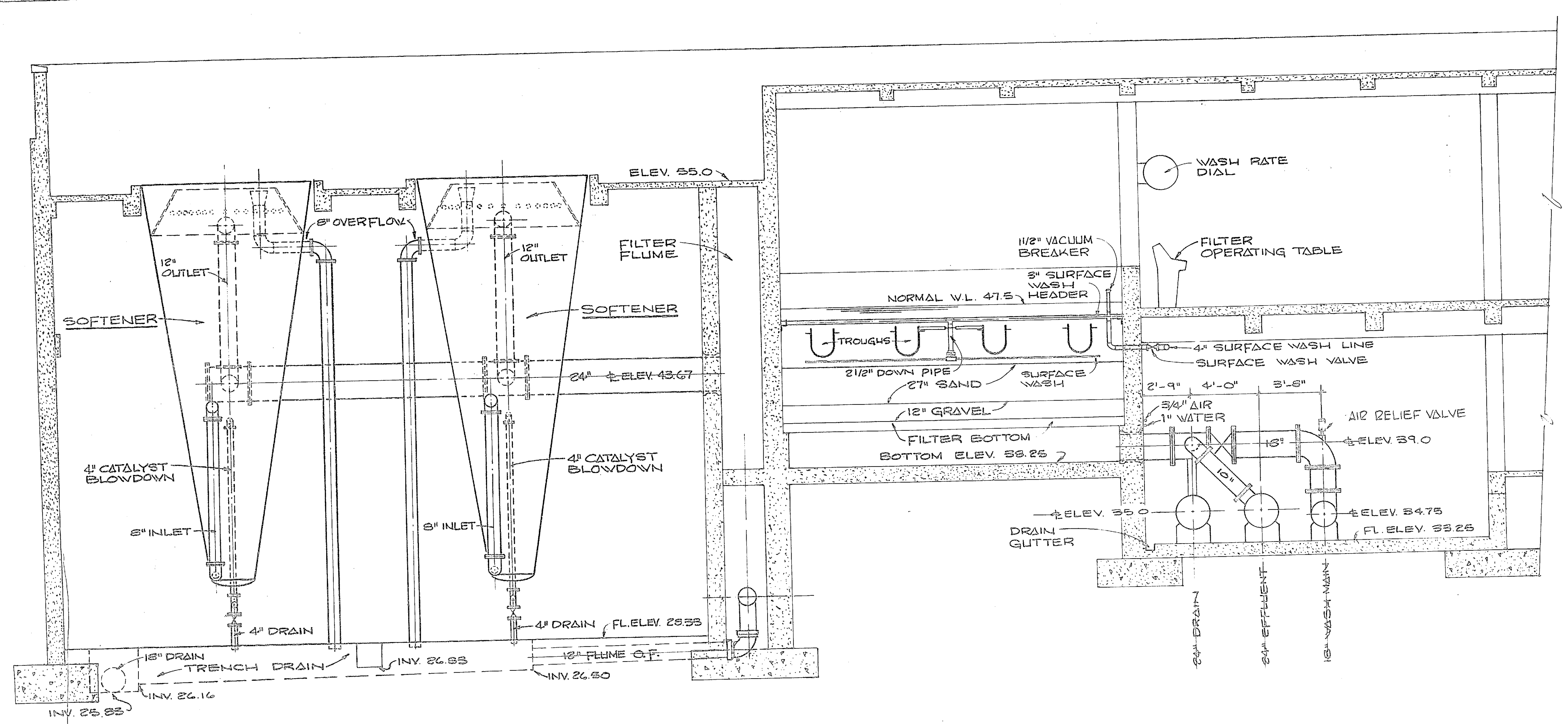
CHLORINATOR PIPING DIAGRAM
NO SCALE



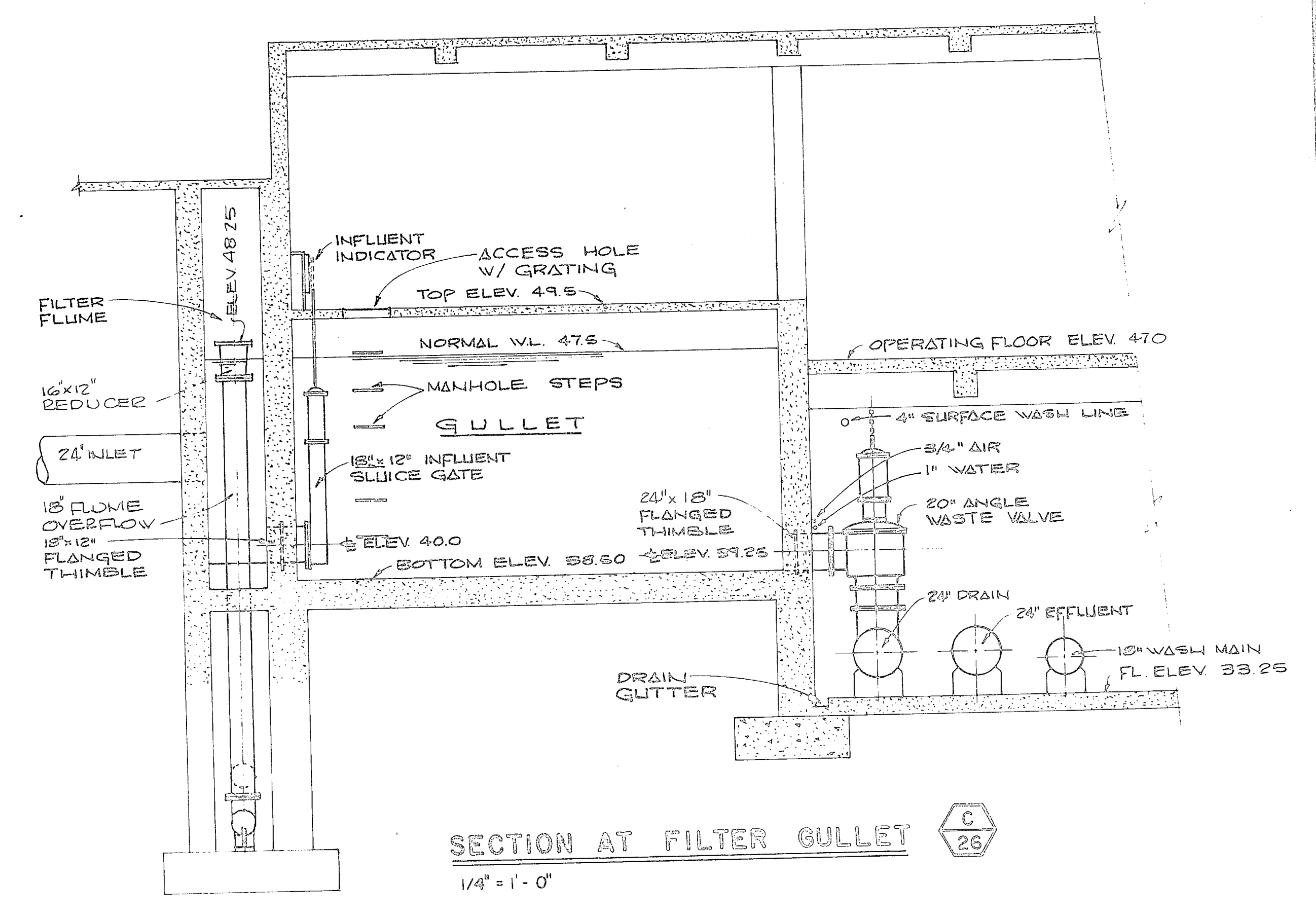
SCHEMATIC LIME FEED SYSTEM
NO SCALE

HENRY HOESEN & ASSOCIATES CONSULTING ENGINEERS VIRGINIA, N. C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NORFOLK, VA.	
DES. J.R.B.	DR. D.M.	CHK. J.E.B.	
SUPV. H.V.O.	CH. ENGR. J.R.B.	DATE	
APPROVED BY: <i>J.R.B.</i>		DATE	
APPROVED: <i>J.R.B.</i>		DATE	
PUBLIC WORKS OFFICER		DATE	
APPROVED: <i>J.R.B.</i>		DATE	
PROJECT NO. 80091		NAVY DRAWING NO. 1338912	
CONTRACT NO. N62470-70-9-0939		NAVY DRAWING NO. 1338912	
SHEET 26 OF 49		DATE	
SCALE: AS SHOWN		DATE	
		DATE	
		DATE	

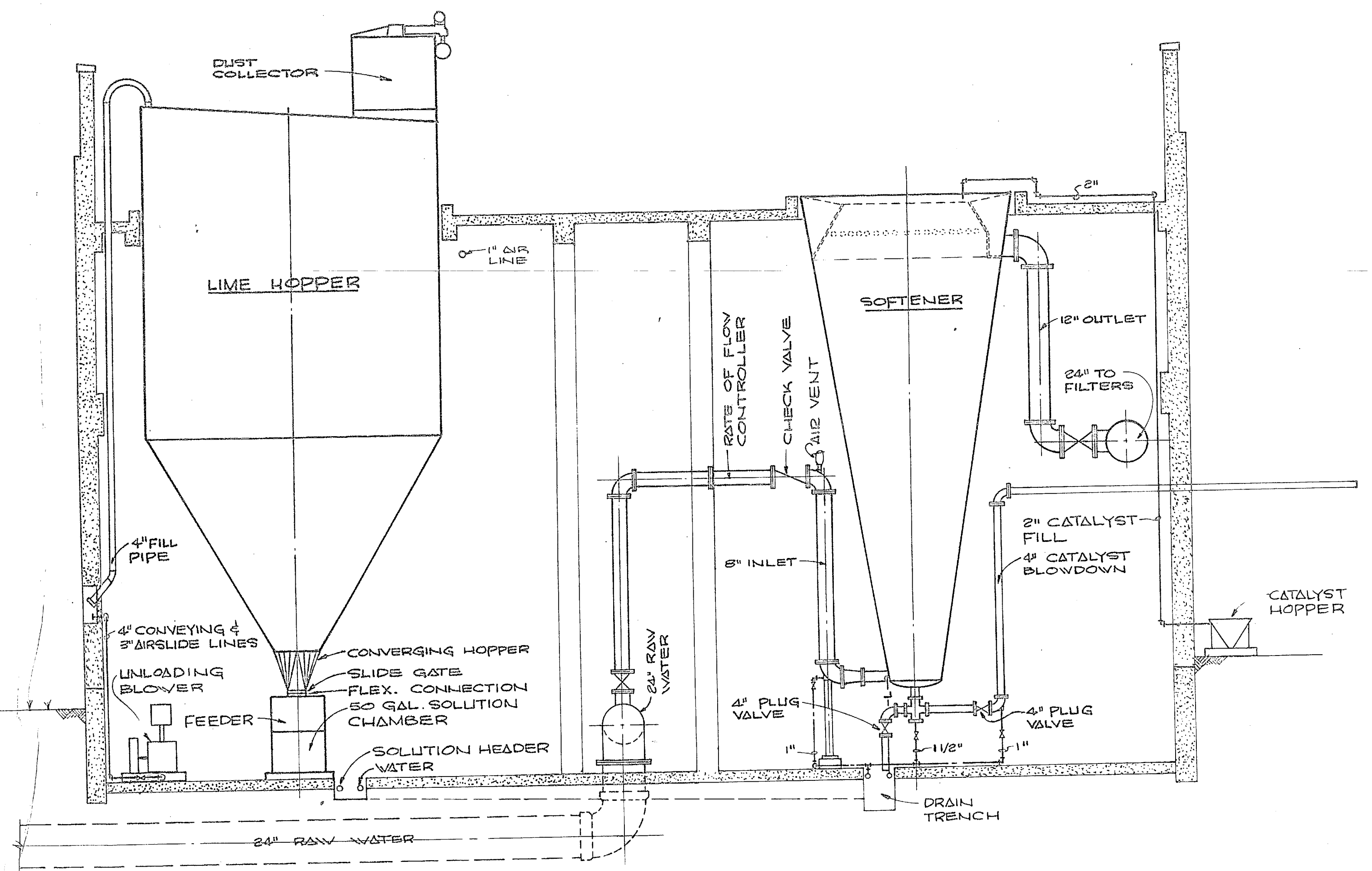
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



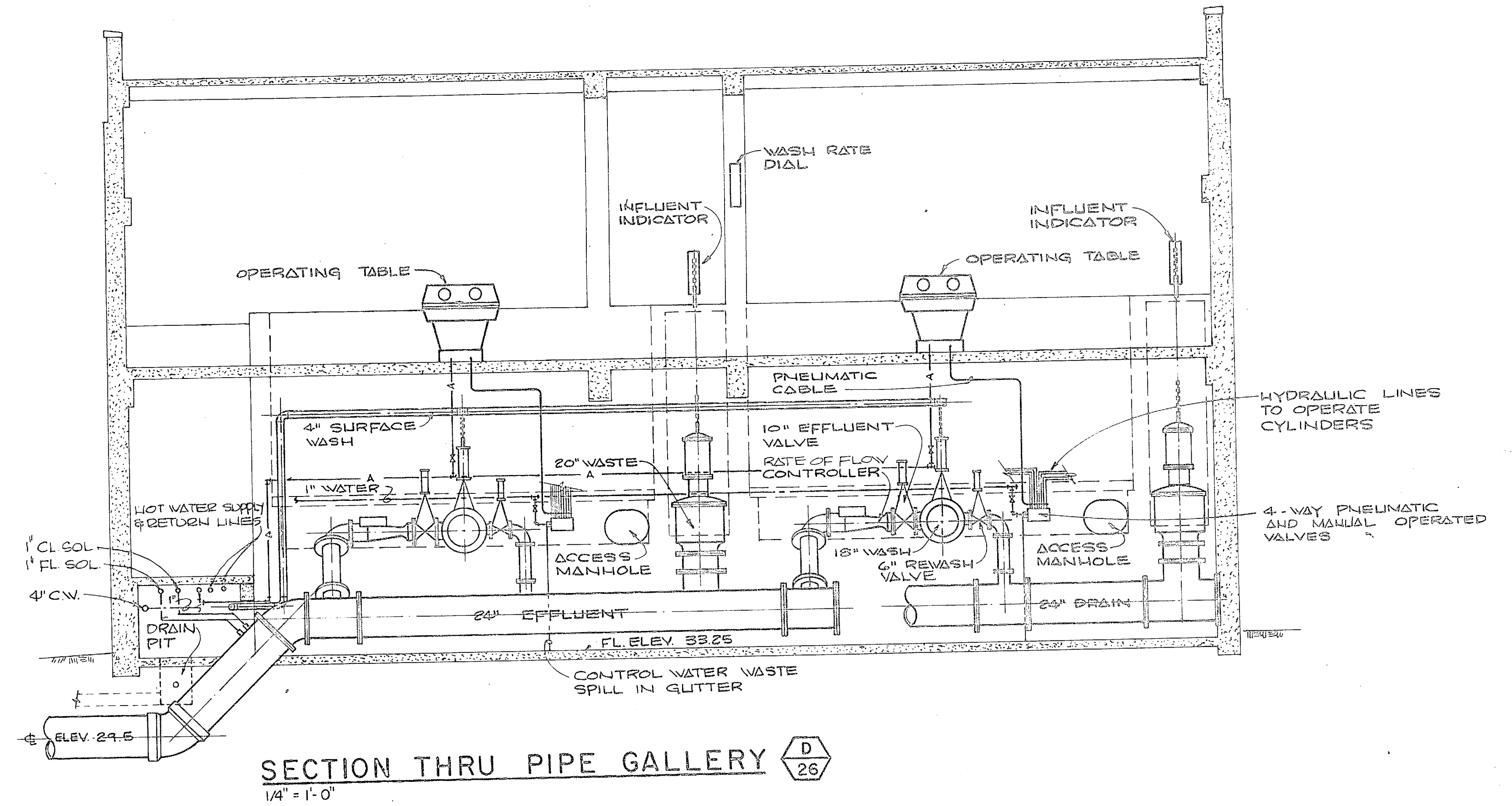
SECTION A-26
1/4" = 1'-0"



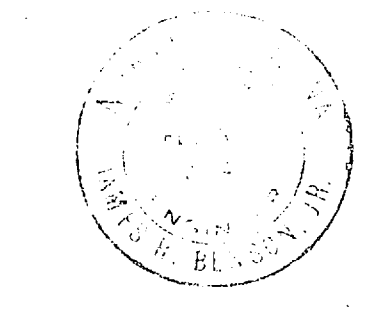
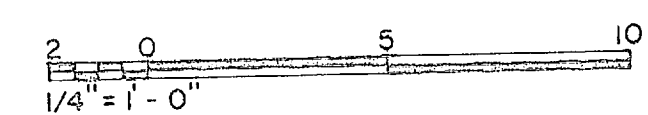
SECTION C-26
1/4" = 1'-0"



SECTION B-26
1/4" = 1'-0"



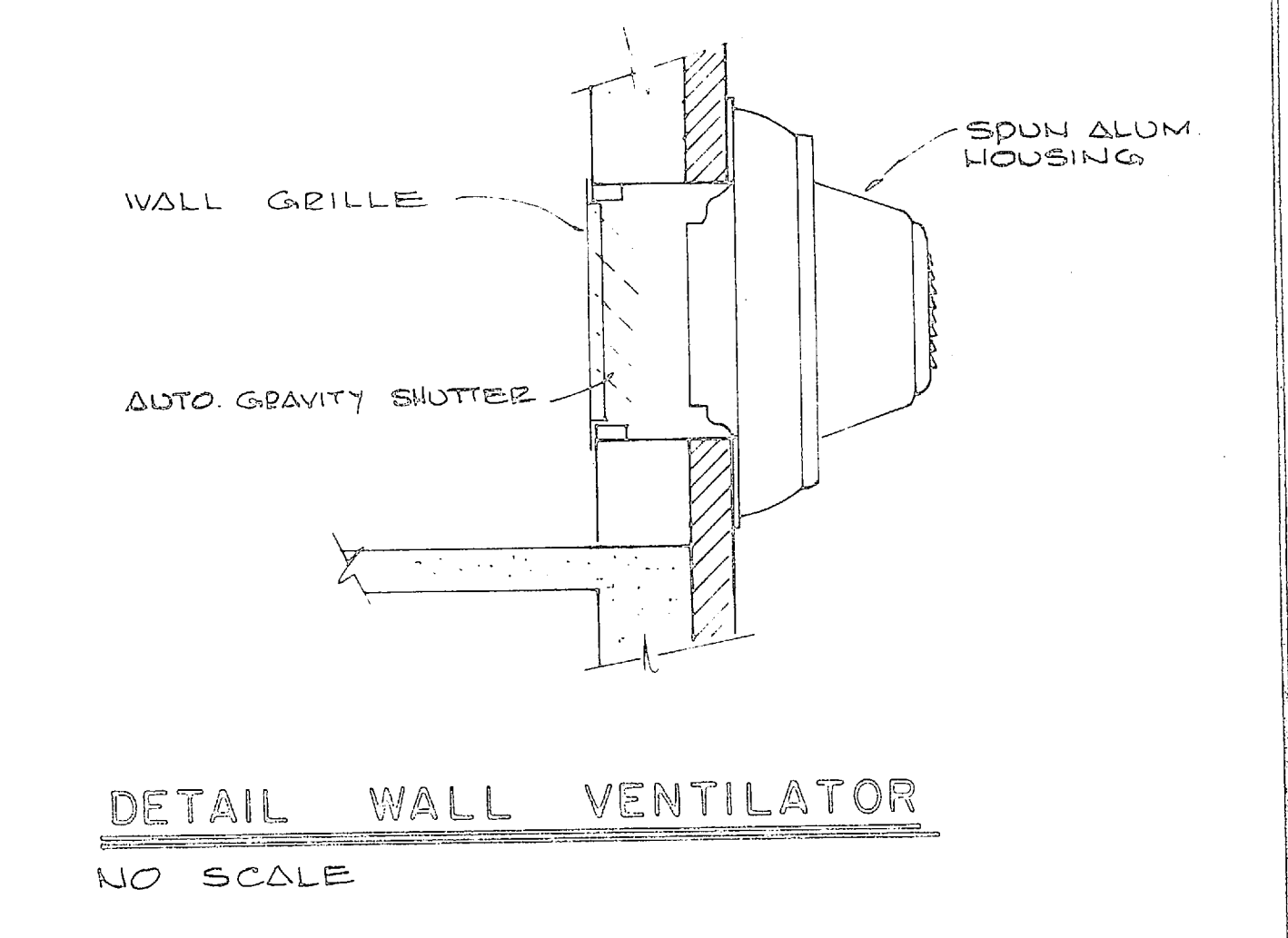
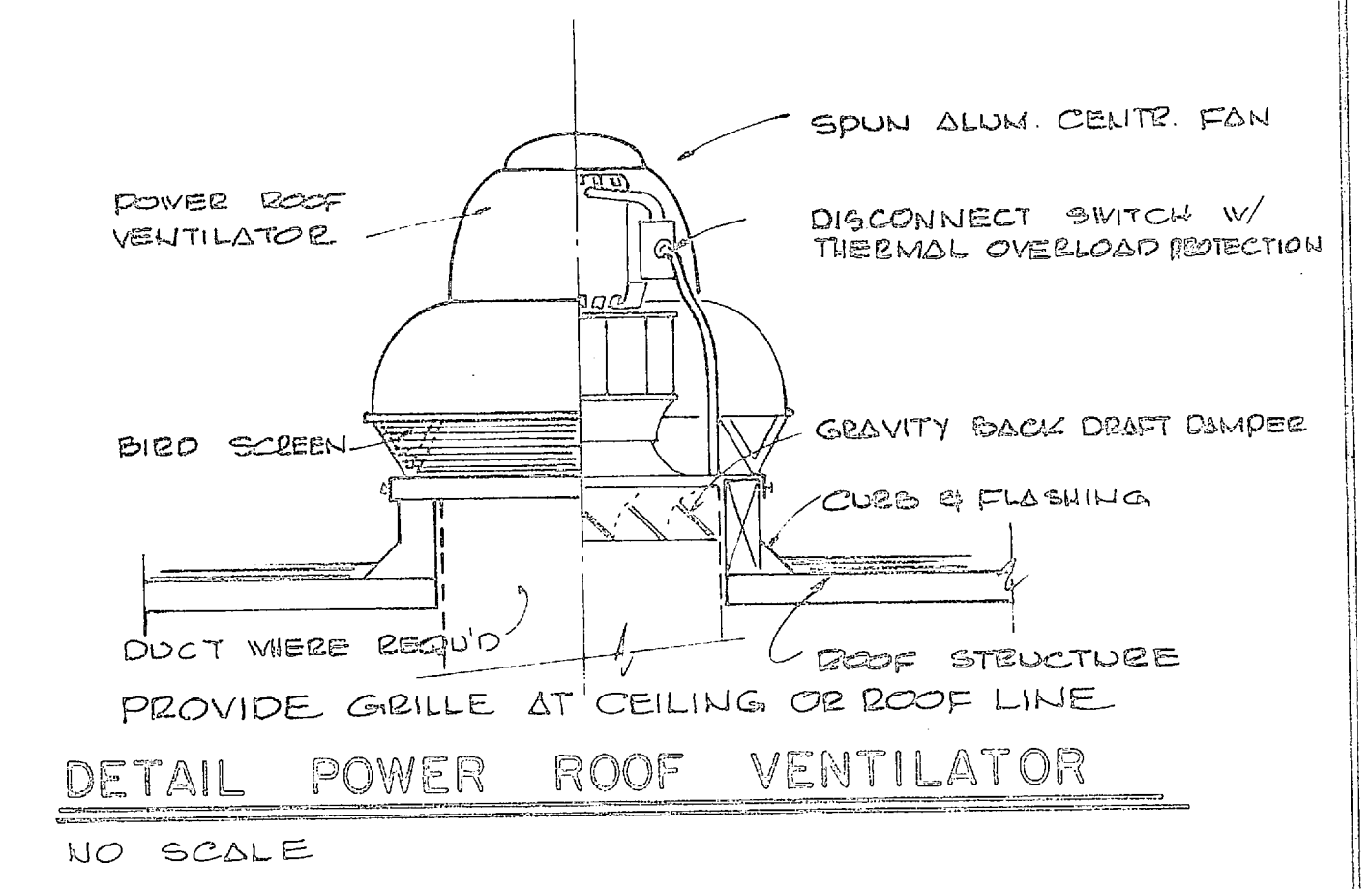
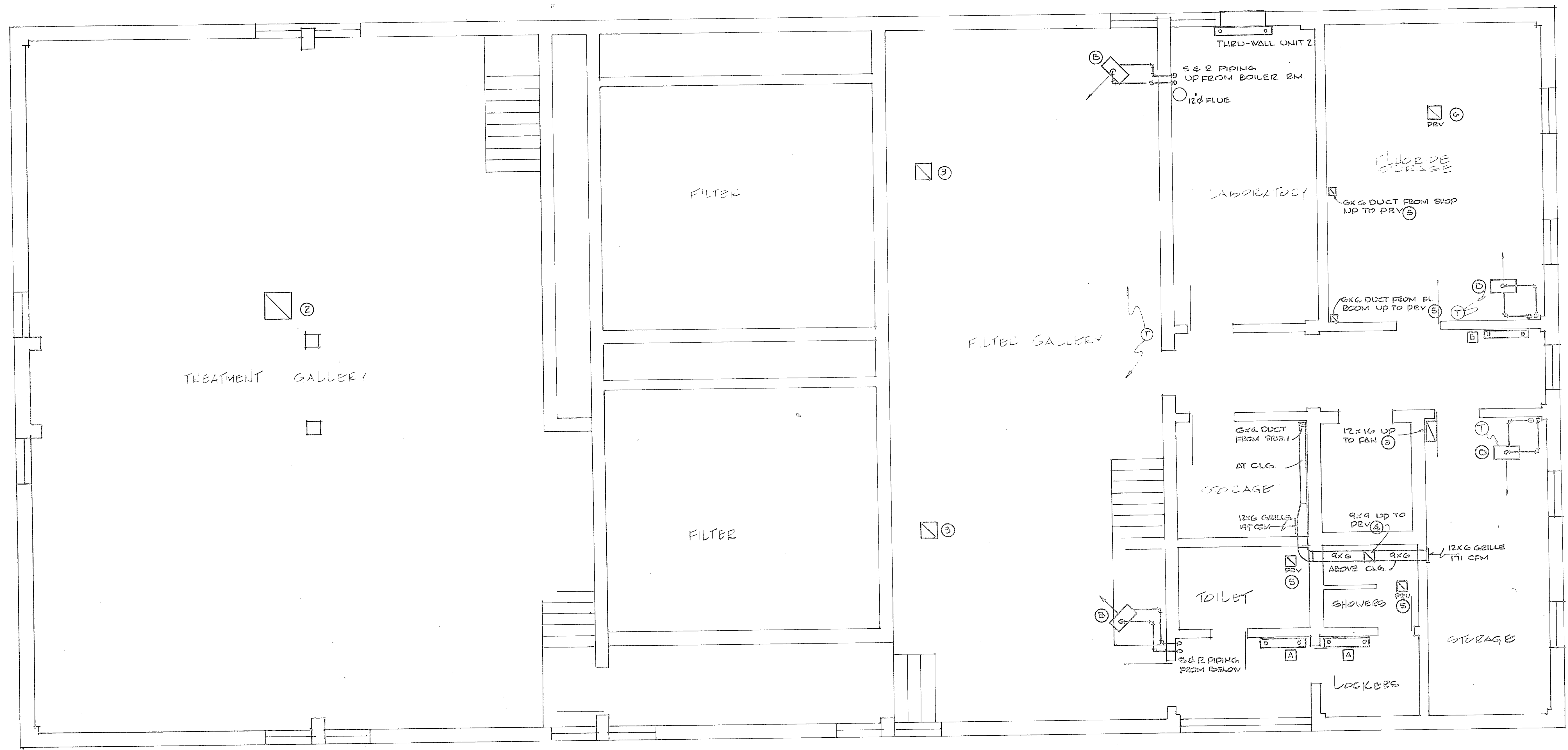
SECTION D-26
1/4" = 1'-0"



HENRY VON OESSEN & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, N. C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION NORFOLK, VA.	
WATER TREATMENT PLANTS, WELLS AND DISTRIBUTION SYSTEM CAMP LEJEUNE, NORTH CAROLINA			
MECHANICAL SECTIONS			
DRAWING NO. 1338914		SHEET 28 OF 30	
DATE 05-70-0930		SCALE AS SHOWN	



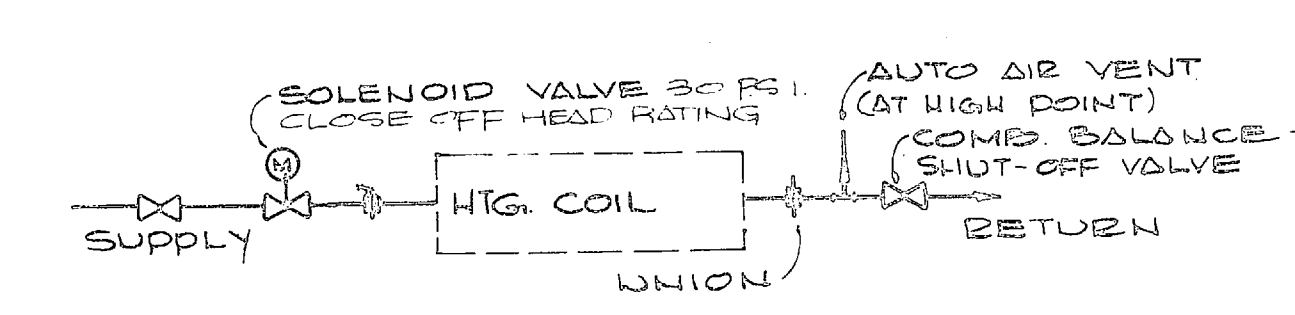
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



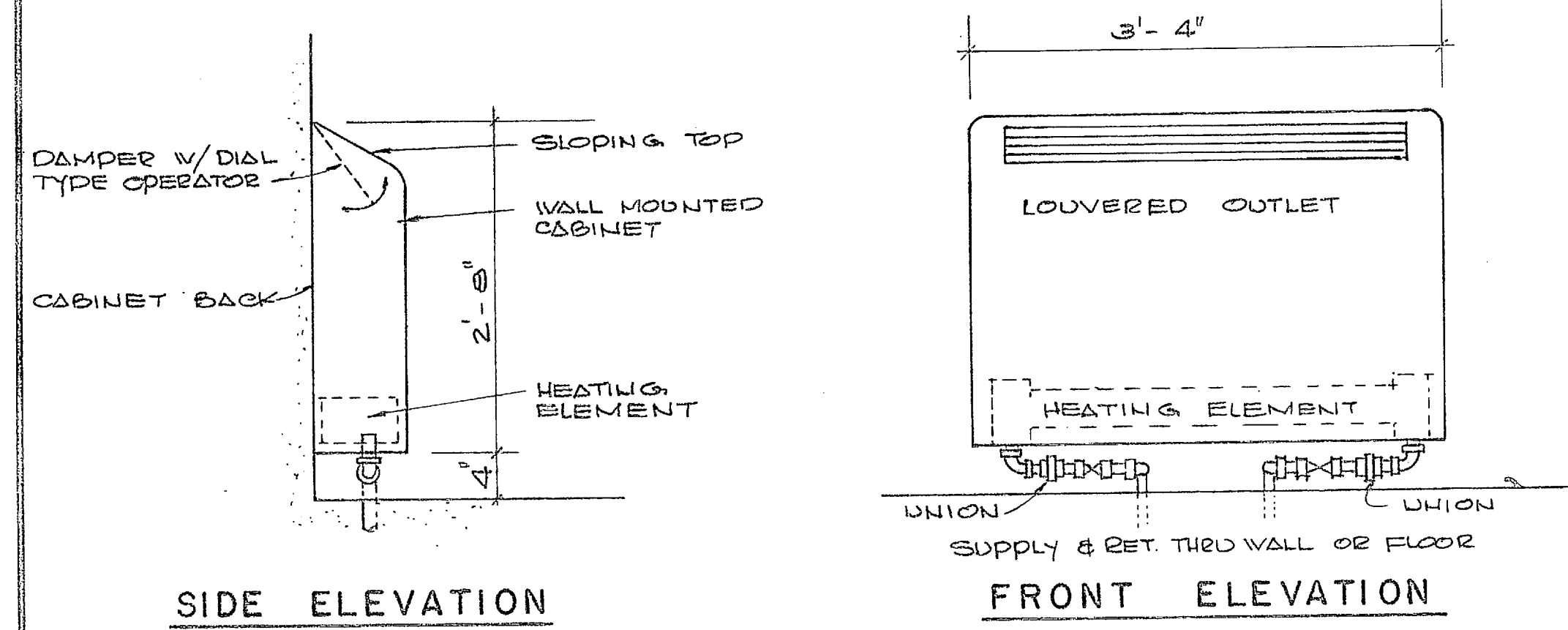
SECOND FLOOR PIPING PLAN
1/4" = 1'-0"

SCHEDULE OF FANS							
MARK	TYPE	CFM	SP. WATER	MIN. HP	ELECTRICAL	ROOF/WALL OPENG.	REMARKS
①	WALL VENTILATOR	525	1/2"	1/8	120 V, 1 φ	12x12	BELT DRIVE
②	POWER ROOF VENT	5200	1/2"	3/4	208 V, 1 φ	24x24	" "
③	"	1500	1/8"	1/8	120 V, 1 φ	14x14	" "
④	"	400	1/8"	1/8	120 V, 1 φ	8x8	DIRECT DRIVE
⑤	"	150	1/8"	1/8	120 V, 1 φ	8x8	" "
⑥	"	760	1/2"	1/2	120 V, 1 φ	12x12	BELT DRIVE

NOTE: OPENING SIZE SHOWN IS ALSO DUCT & GRILLE SIZE UNLESS SHOWN OTHERWISE



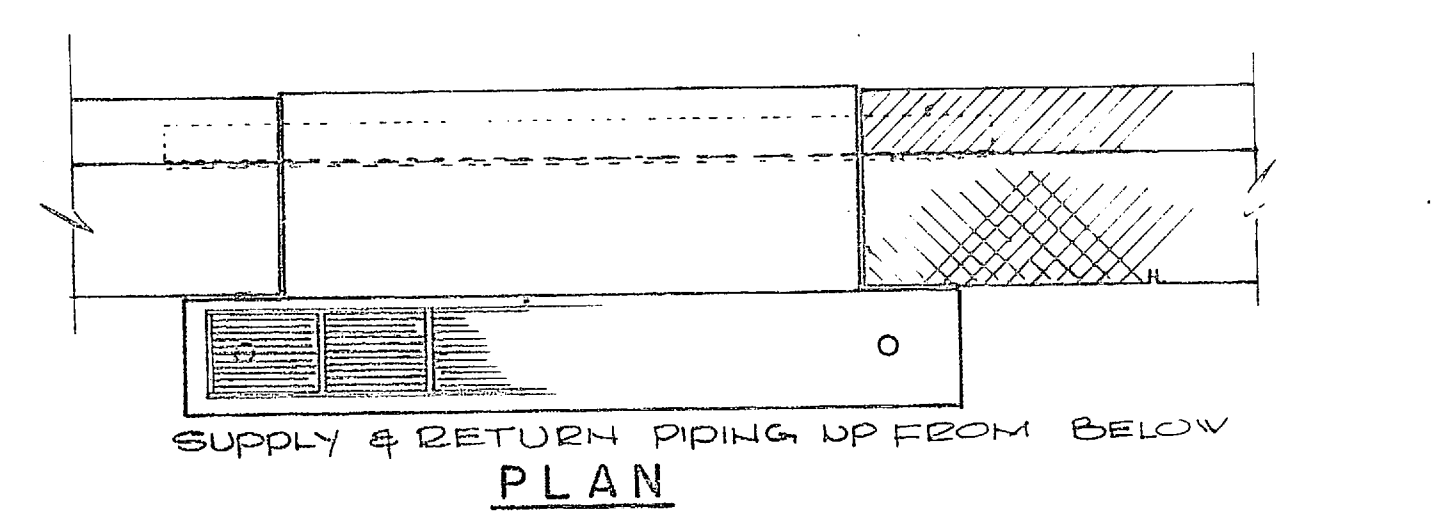
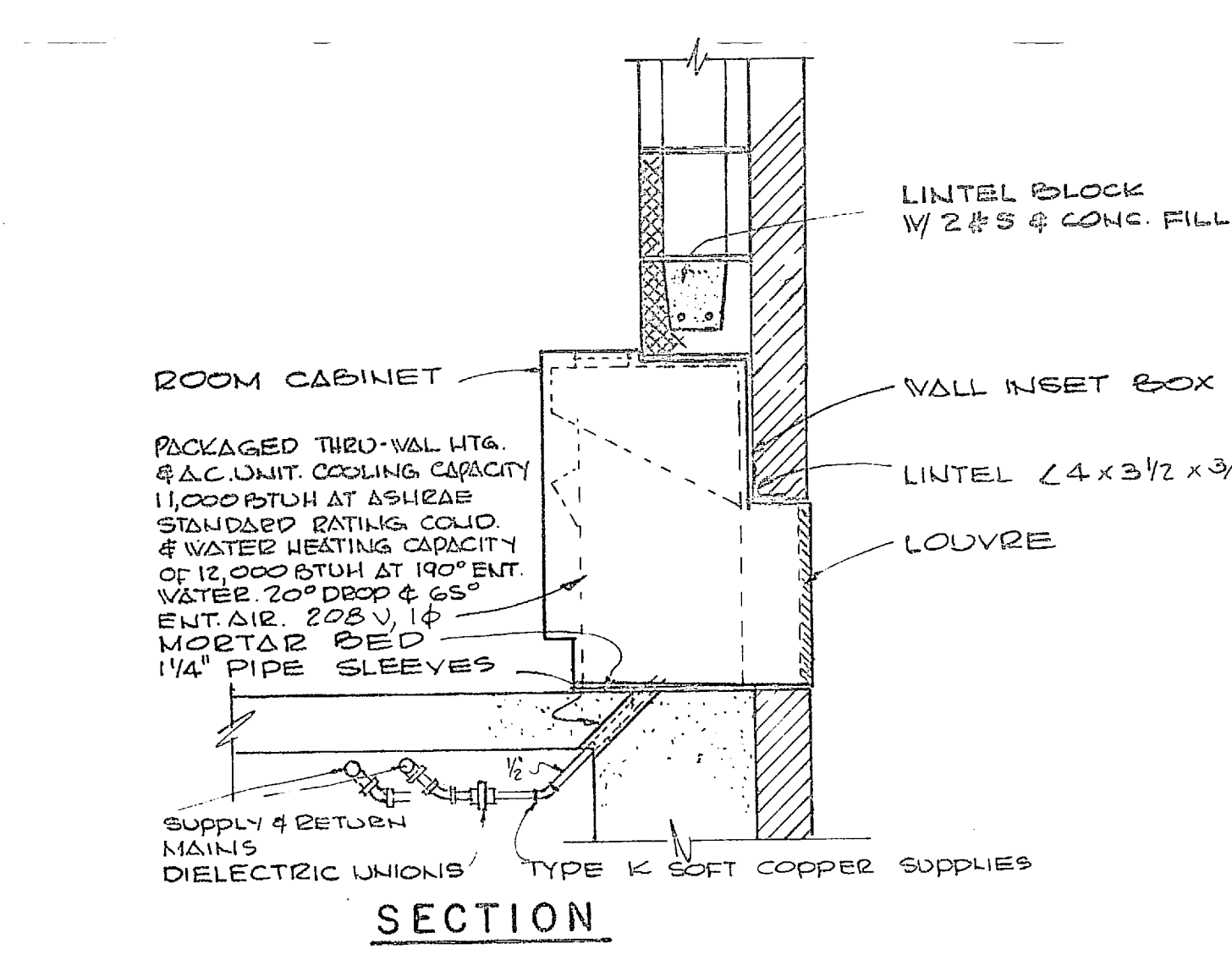
SCHEMATIC PIPING THRU-WALL UNITS



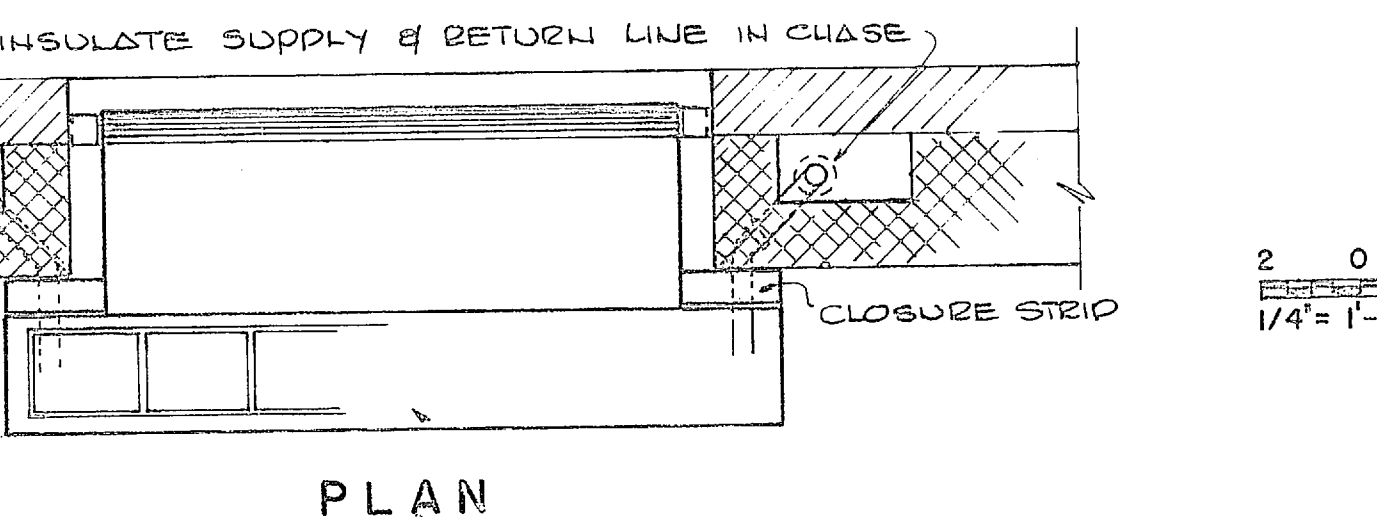
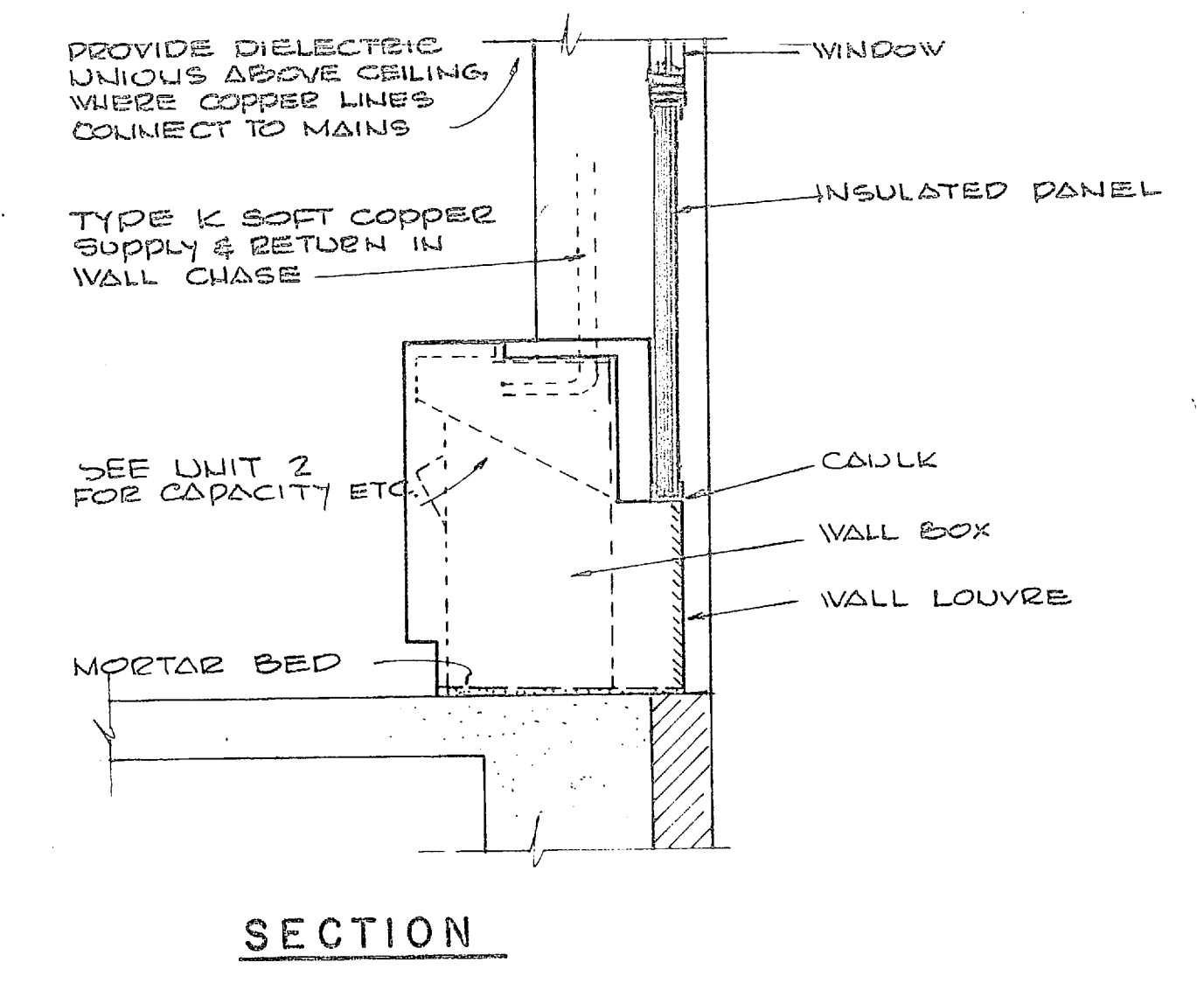
CONVECTOR DETAIL
NO SCALE

CONVECTOR SCHEDULE				
MARK	CAPACITY	HEIGHT-DEPTH-LENGTH	GPM	REMARKS
A	10,000	32" x 6" x 40"	1	1/2" ROUNDS
B	7,500	32" x 6" x 40"	3/4	1/2" ROUNDS

ALL CAPACITIES ARE BASED ON 190° ENT. W.T. 20° TEMP DROP, 65° E.A.



DETAIL THRU-WALL UNIT 2
NO SCALE



DETAIL THRU-WALL UNIT 1
NO SCALE

HENRY VOH BESEK & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, N. C.

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NORFOLK, VA

NAVAL STATION

WATER TREATMENT PLANTS, WELLS AND DISTRIBUTION SYSTEM

CAMP LEJEUNE NORTH CAROLINA

TREATMENT PLANT

SECOND FLOOR HEATING AND VENTILATING

NO. 1351 DATE 5/15/70

APPROVED DATE

PUBLIC WORKS OFFICER DATE

CONSTR. CONTR. NO. N52470-70-S-0839

1338916

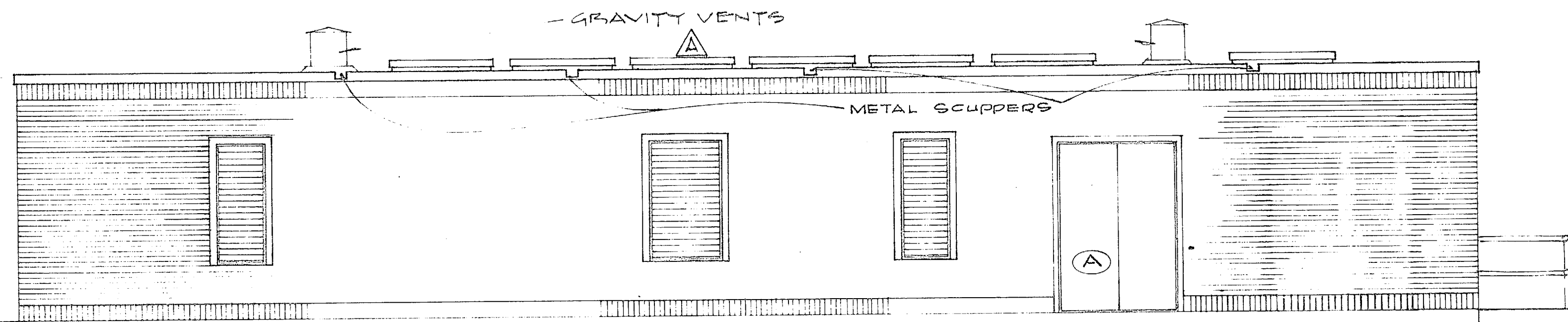
03-70-0939 SHEET 20 OF 40

84916



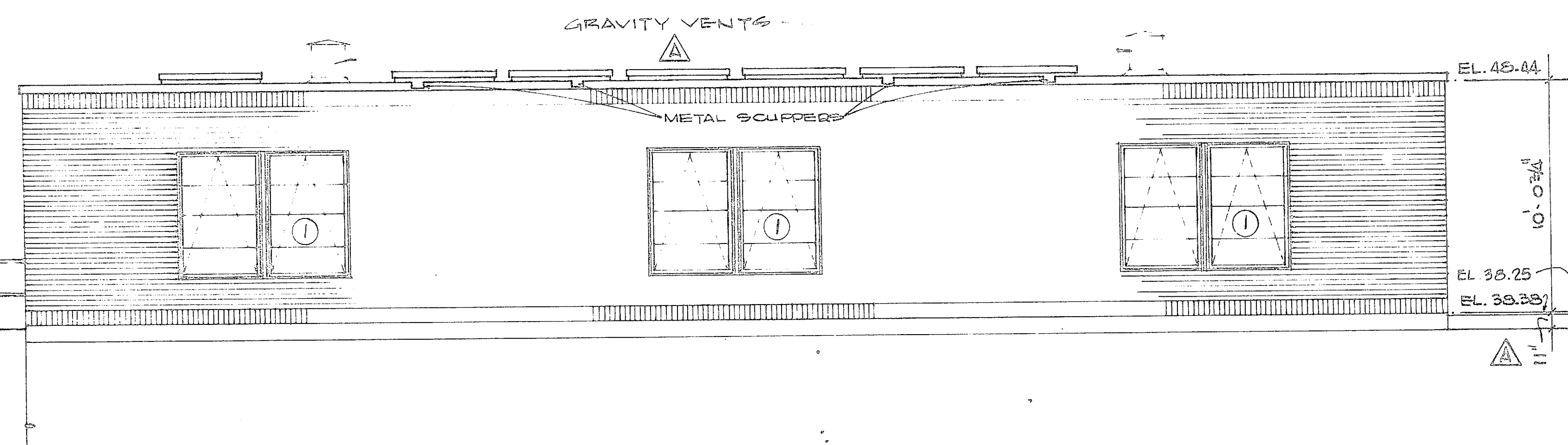
NORTH ELEVATION

SCALE 1/4" = 1'-0"



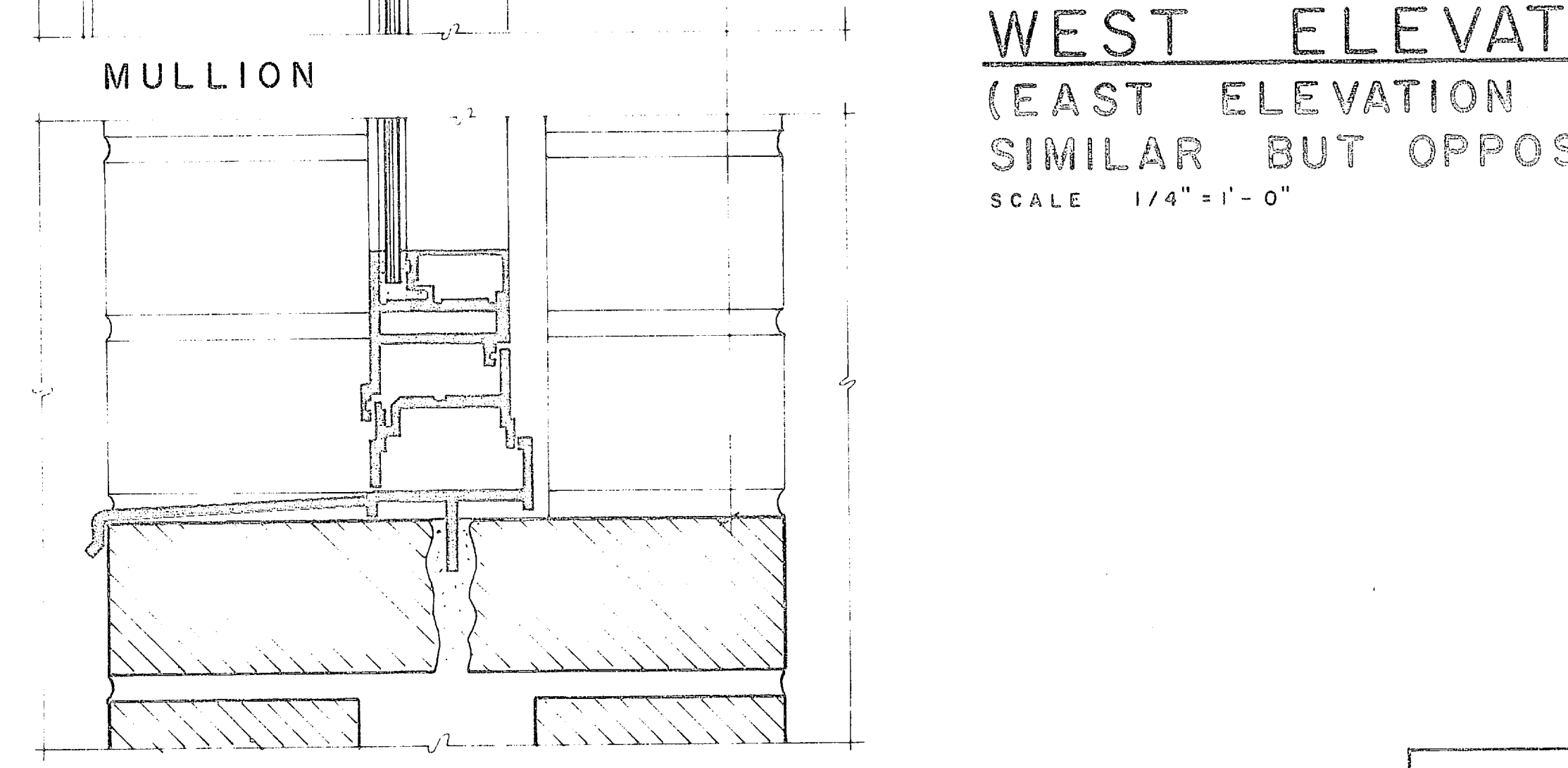
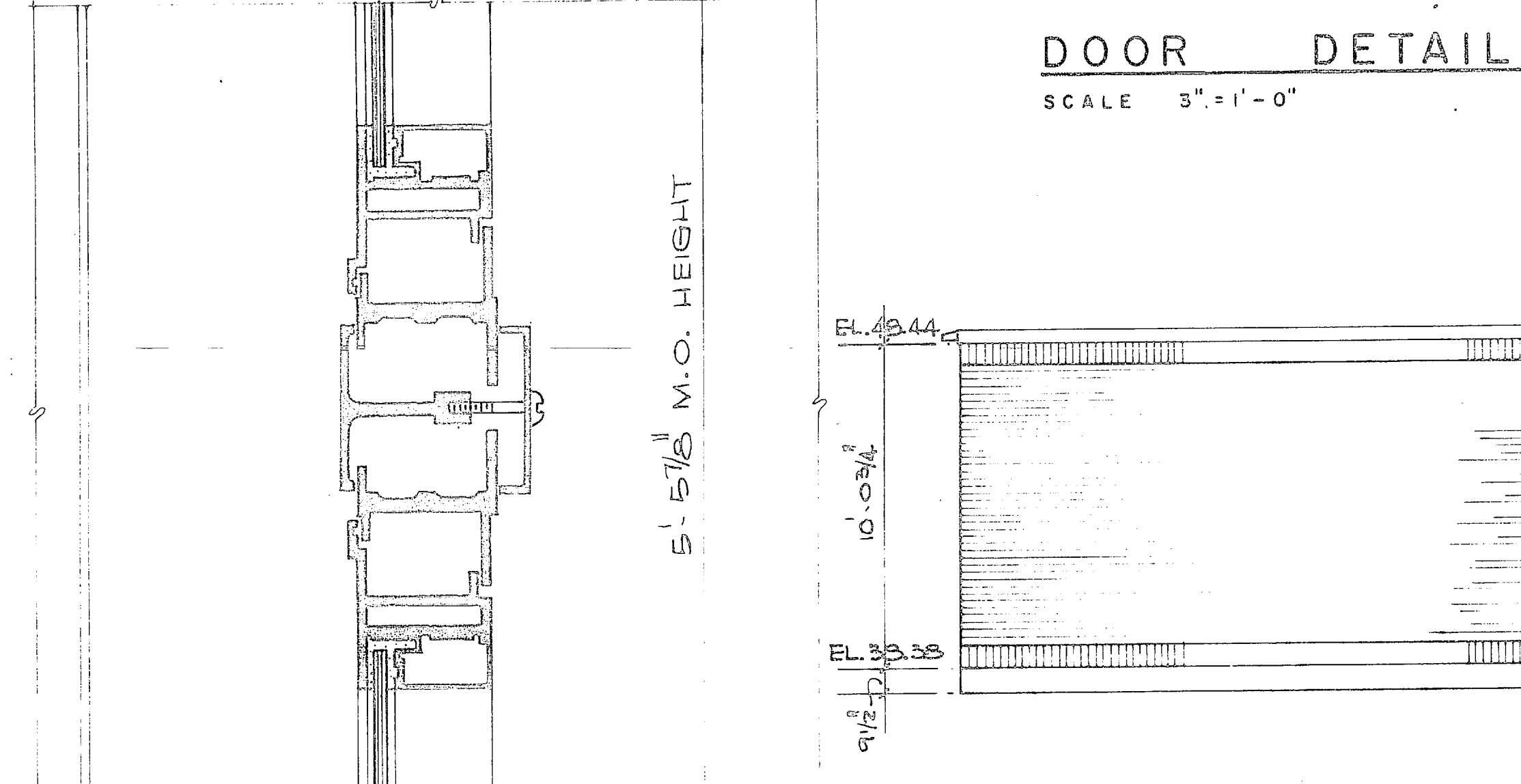
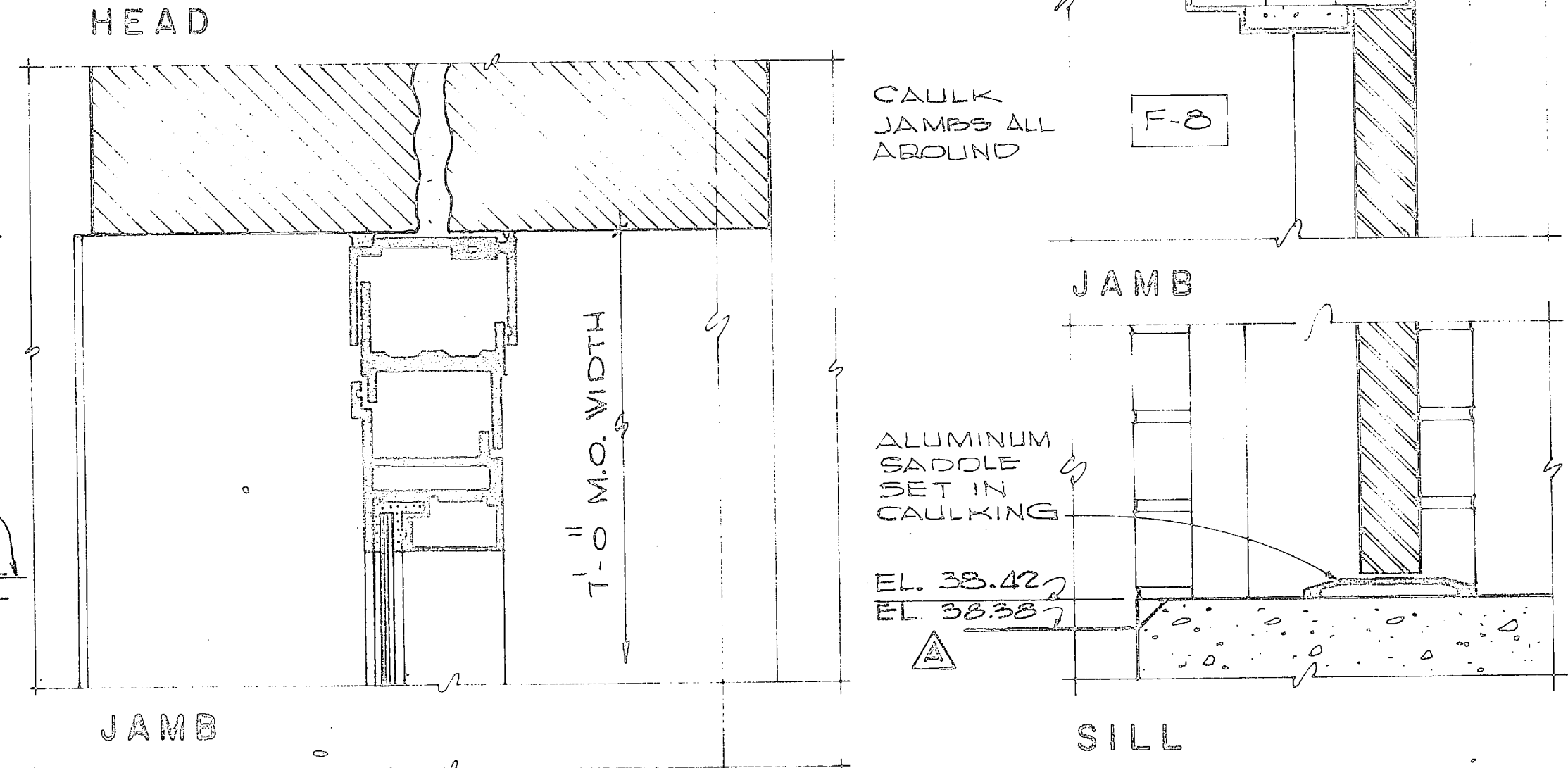
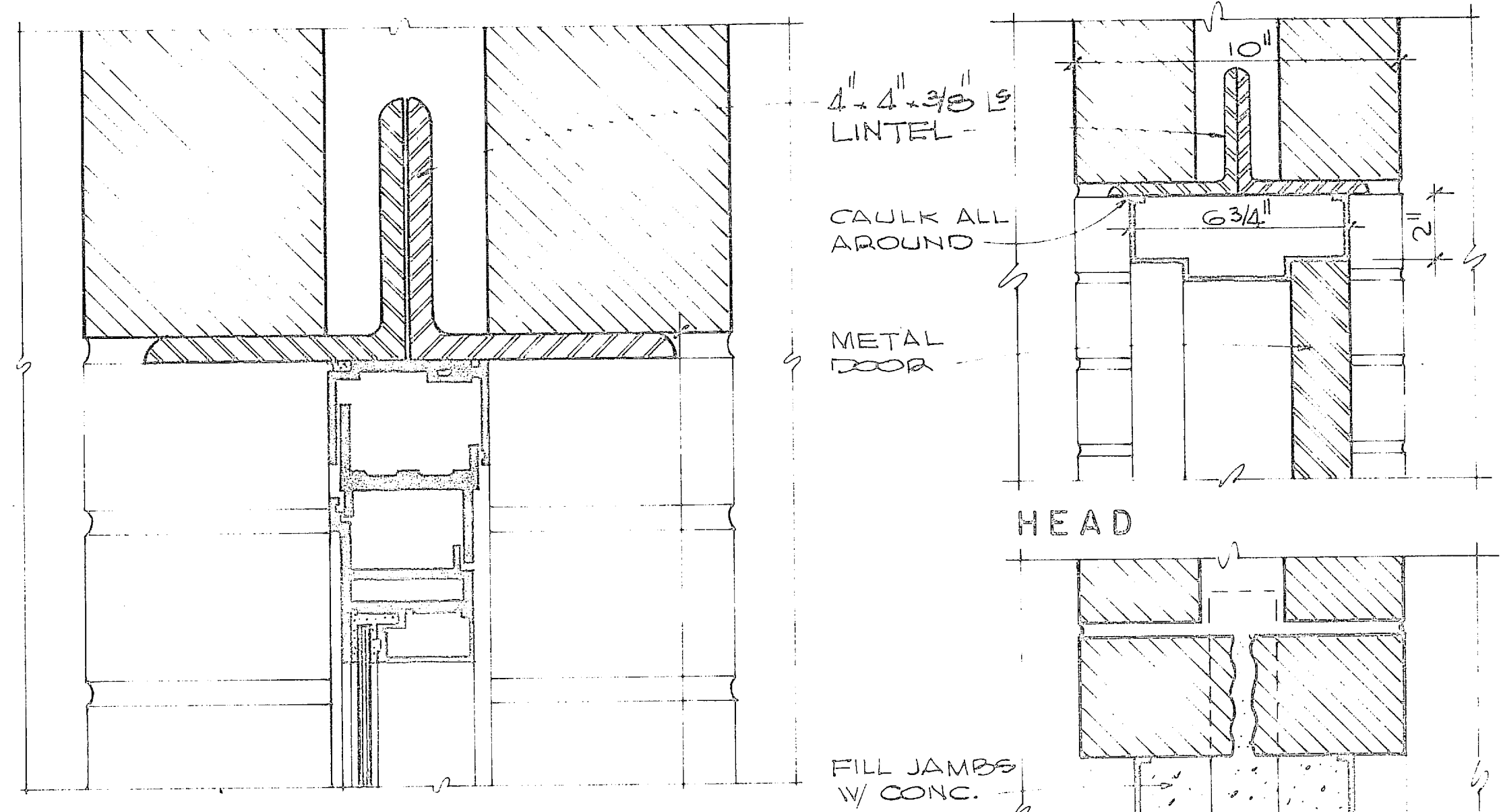
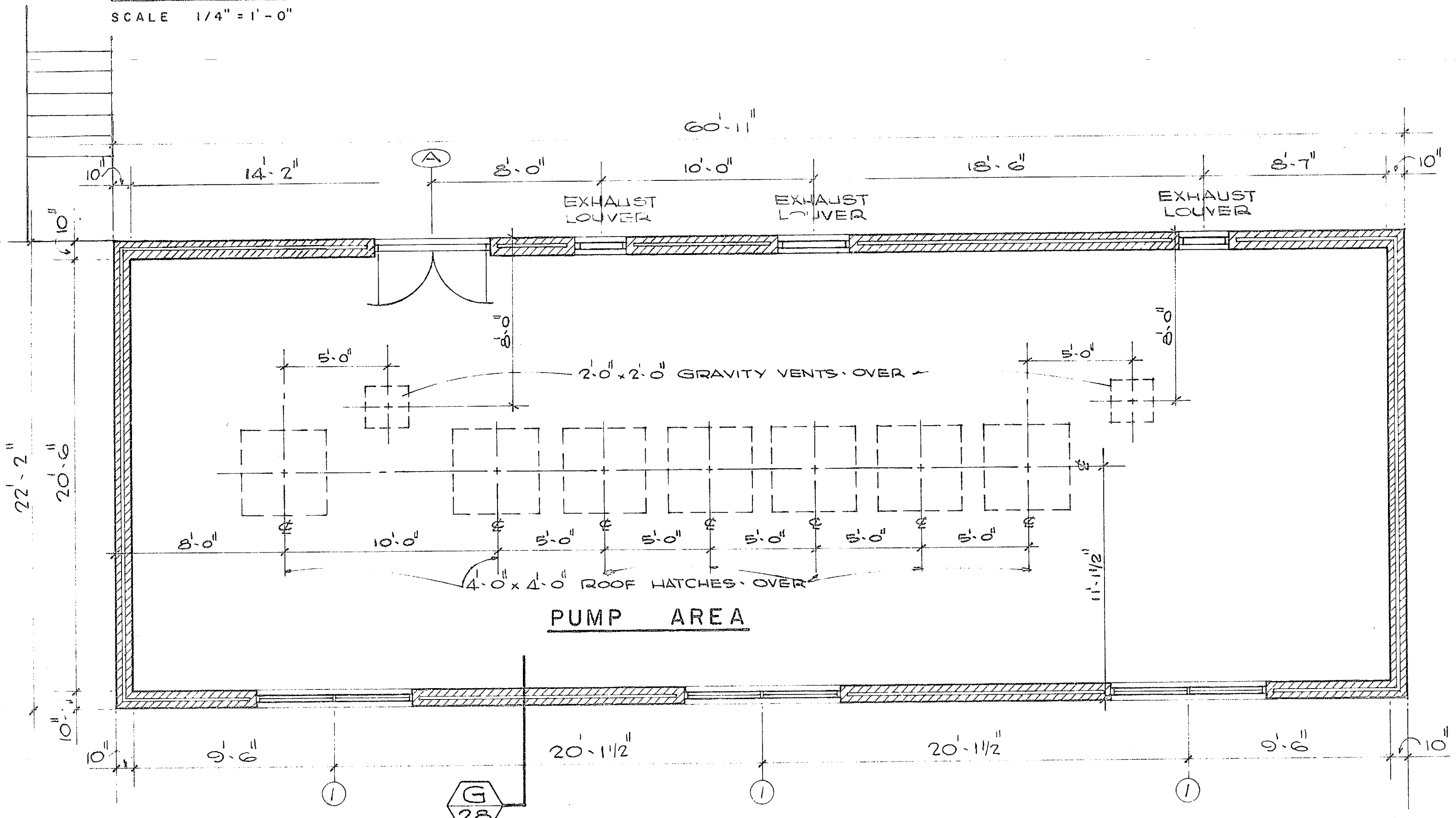
SOUTH ELEVATION

SCALE 1/4" = 1'-0"



FLOOR PLAN

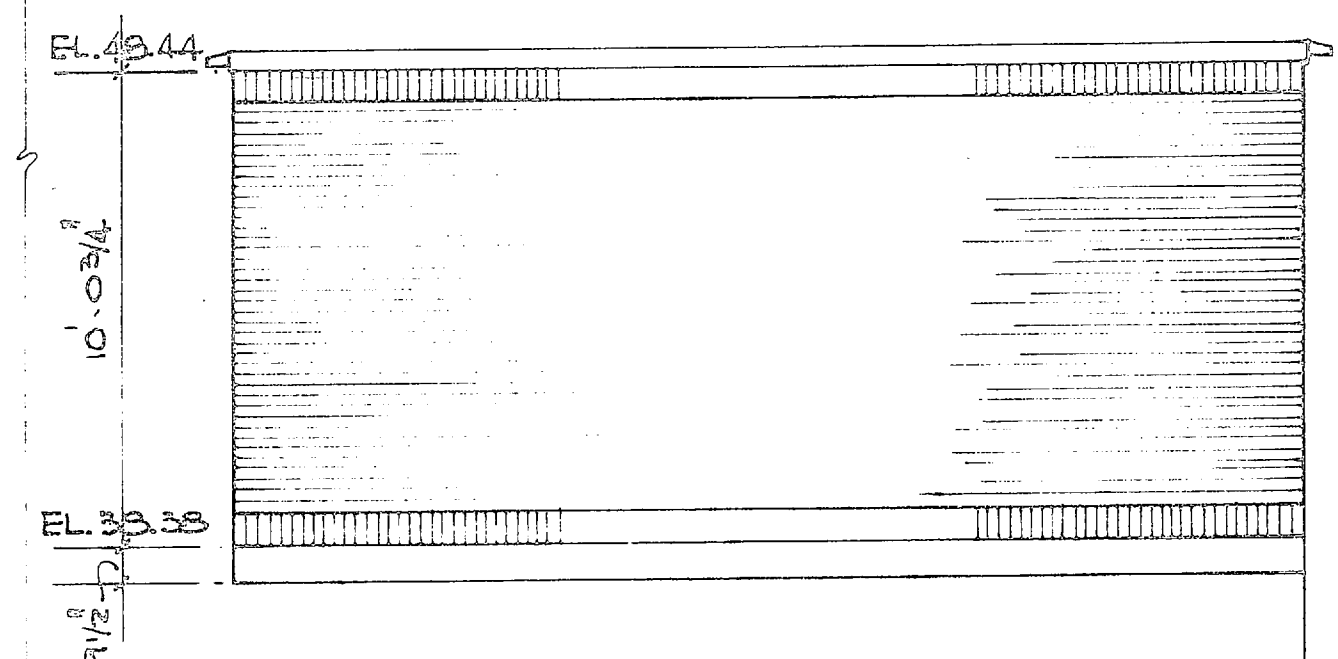
SCALE 1/4" = 1'-0"



4" x 4" x 3/8" LINTEL
 CAULK ALL AROUND
 METAL DOOR
 HEAD
 FILL JAMBS W/ CONC.
 CAULK JAMBS ALL AROUND
 JAMB
 ALUMINUM SADDLE SET IN CAULKING
 EL. 38.42
 EL. 38.38
 SILL
 DOOR DETAIL
 SCALE 3" = 1'-0"

WEST ELEVATION (EAST ELEVATION SIMILAR BUT OPPOSITE)

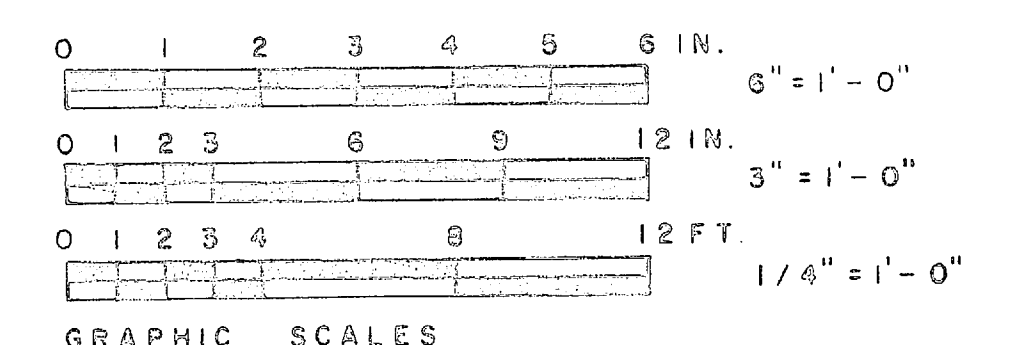
SCALE 1/4" = 1'-0"



REVISIONS		DATE	APPROVED
SYM	DESCRIPTION		
Δ	ELEV. REVISIONS & ADDITION OF DOOR SCHEDULE	8/7/70	(S)

SPACE	FLOORS		WALLS		CELLINGS		REMARKS
	SUB FLOOR	FINISH	FLOOR	MATERIAL	FINISH	MATERIAL	
PUMP AREA	CONC.	CONC.	C.M.U.	C.M.U.	PAINT	PAINT	

MARK	DOOR SCHEDULE		WINDOW SCHEDULE		REMARKS
	SIZE	TYPE	SIZE	TYPE	
(A)	7'-2" HIGH 3'-2 1/2" WIDE	HOLLOW METAL	5'-5 1/2" HIGH 3'-4 7/8" WIDE	PROJECTED	GLASS WIREFLASS



HENRY VON OESCH & ASSOCIATES
 CONSULTING ENGINEERS
 WILMINGTON, N. C.

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 ATLANTIC DIVISION
 NORFOLK, VA.

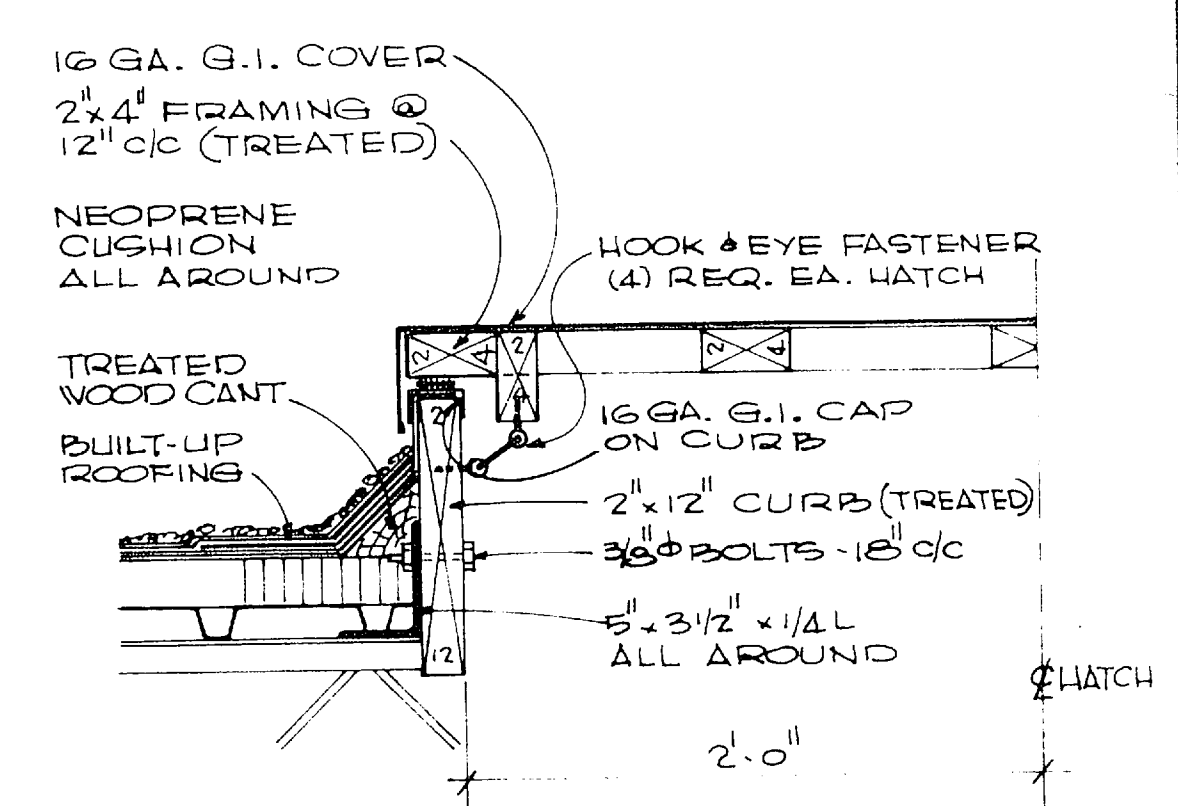
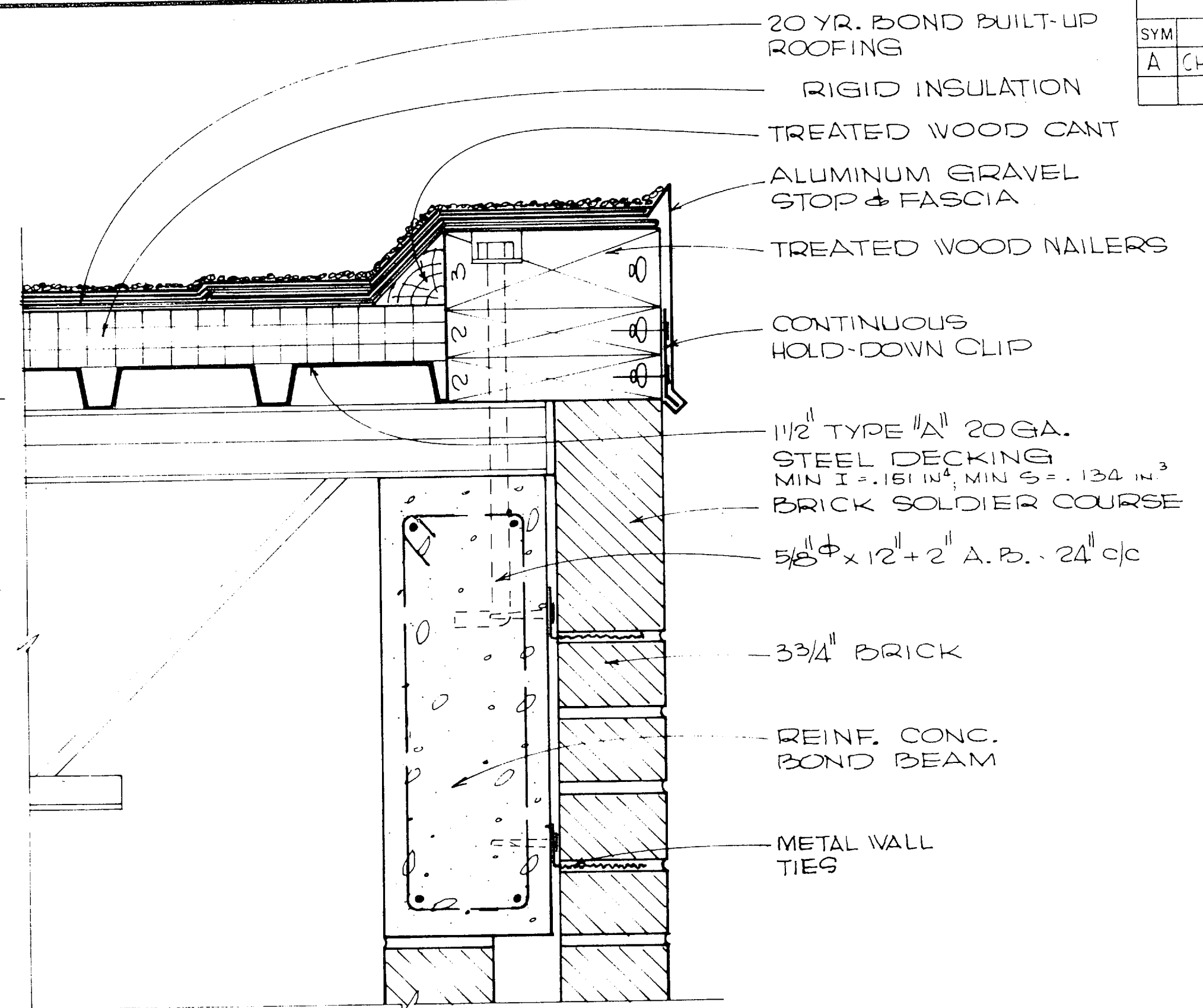
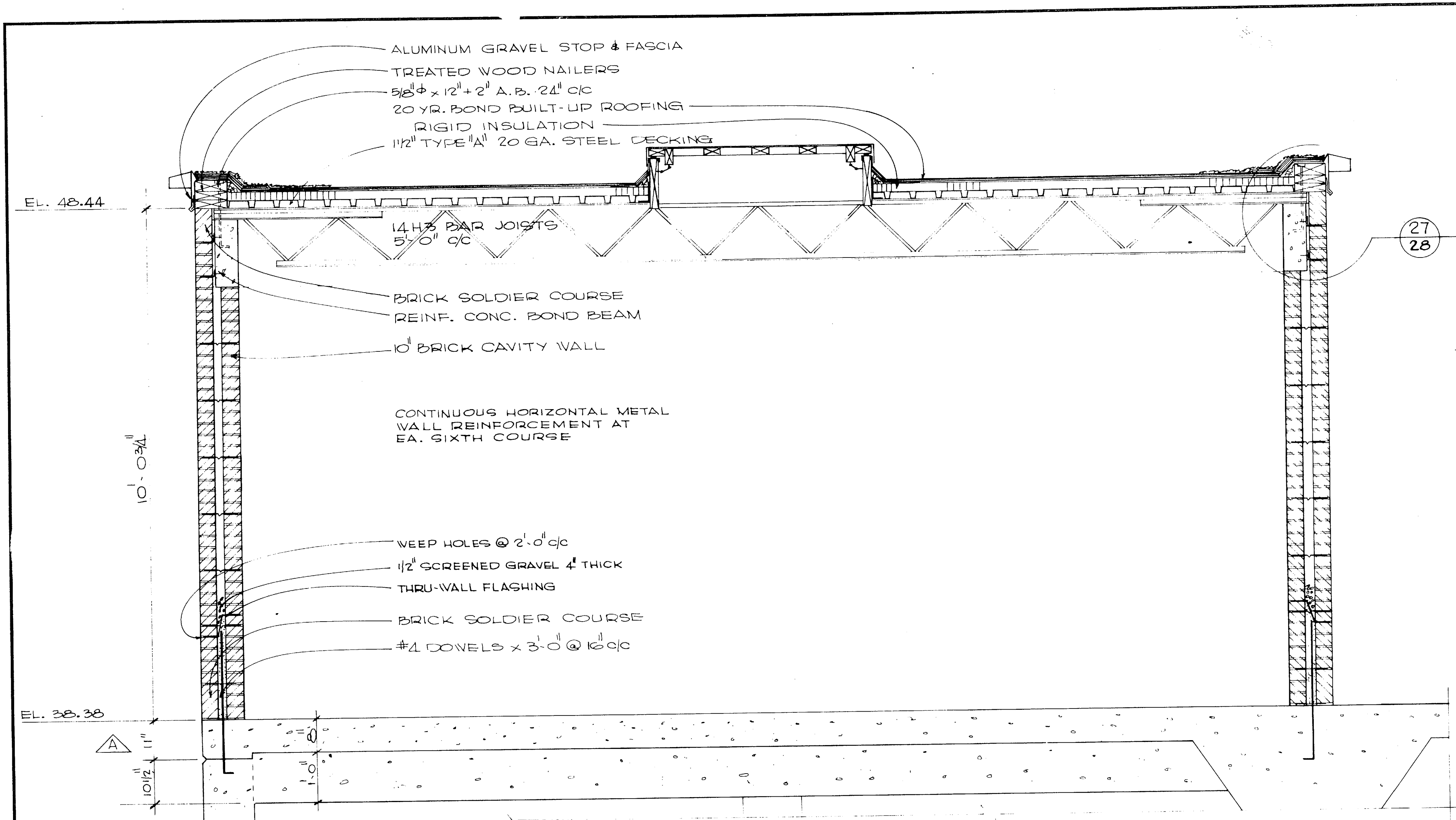
WATER TREATMENT PLANTS, WELLS AND DISTRIBUTION SYSTEM
 CAMP LEJEUNE, NORTH CAROLINA
 PUMPING STATION
 ELEVATIONS, PLAN & DETAILS

DES. JRO | DR. JLV | CHR. | SUPV. JZB | CH ENGR. JEB | DATE 5/25/70
 FIRM MEMBER | IVD. BOSS | HD. SH | DIR. SW
 APPROVED DATE

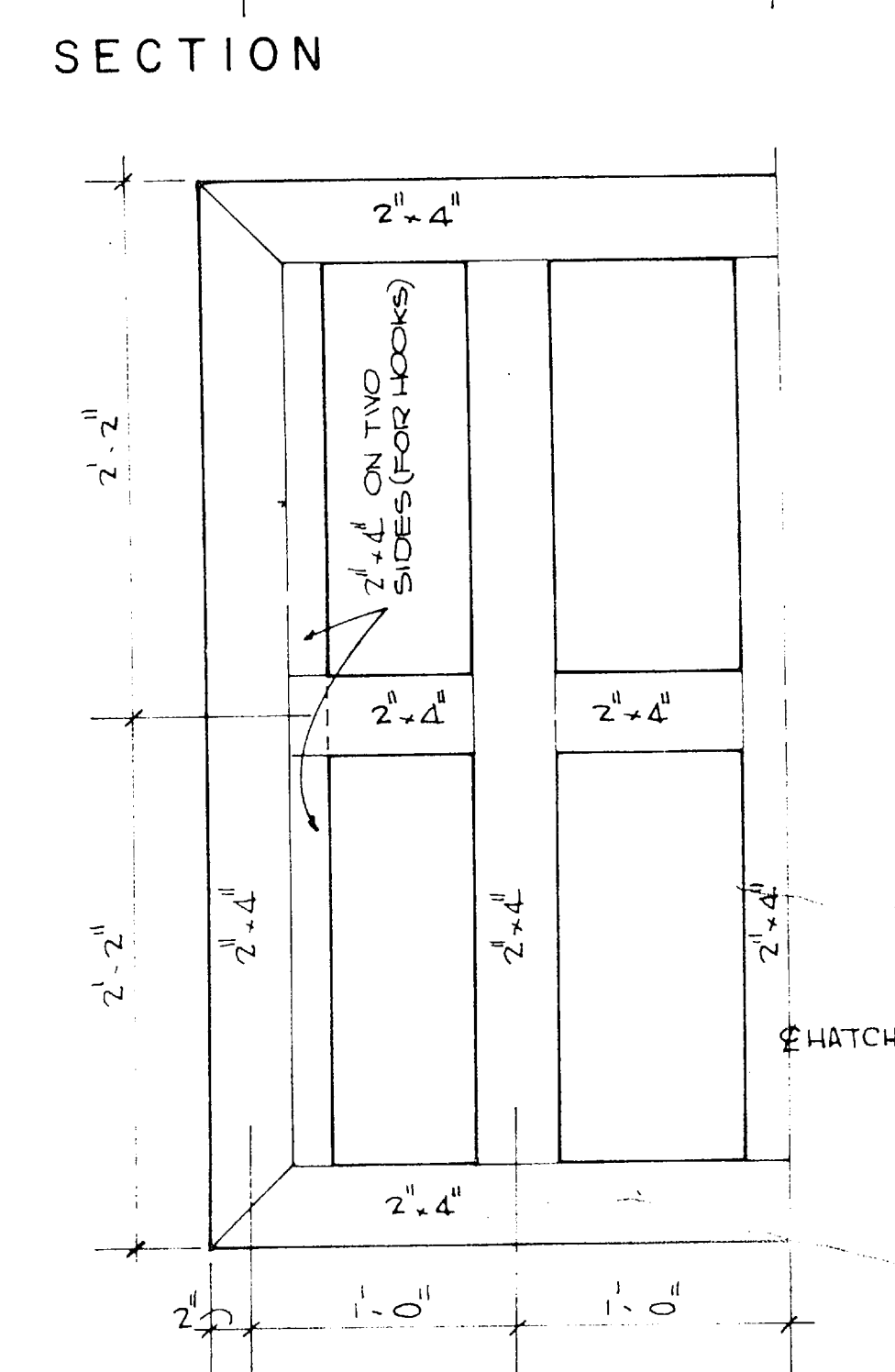
PUBLIC WORKS OFFICER
 DATE

PROJECT NO. 80091
 NAVFAC DRAWING NO. 1338917
 CONSTR. CONTR. NO. N62470-70-B-0939
 SCALE AS SHOWN | SPEC. 05-70-0939 | SHEET 20 OF 29
 EFD INC. 84917

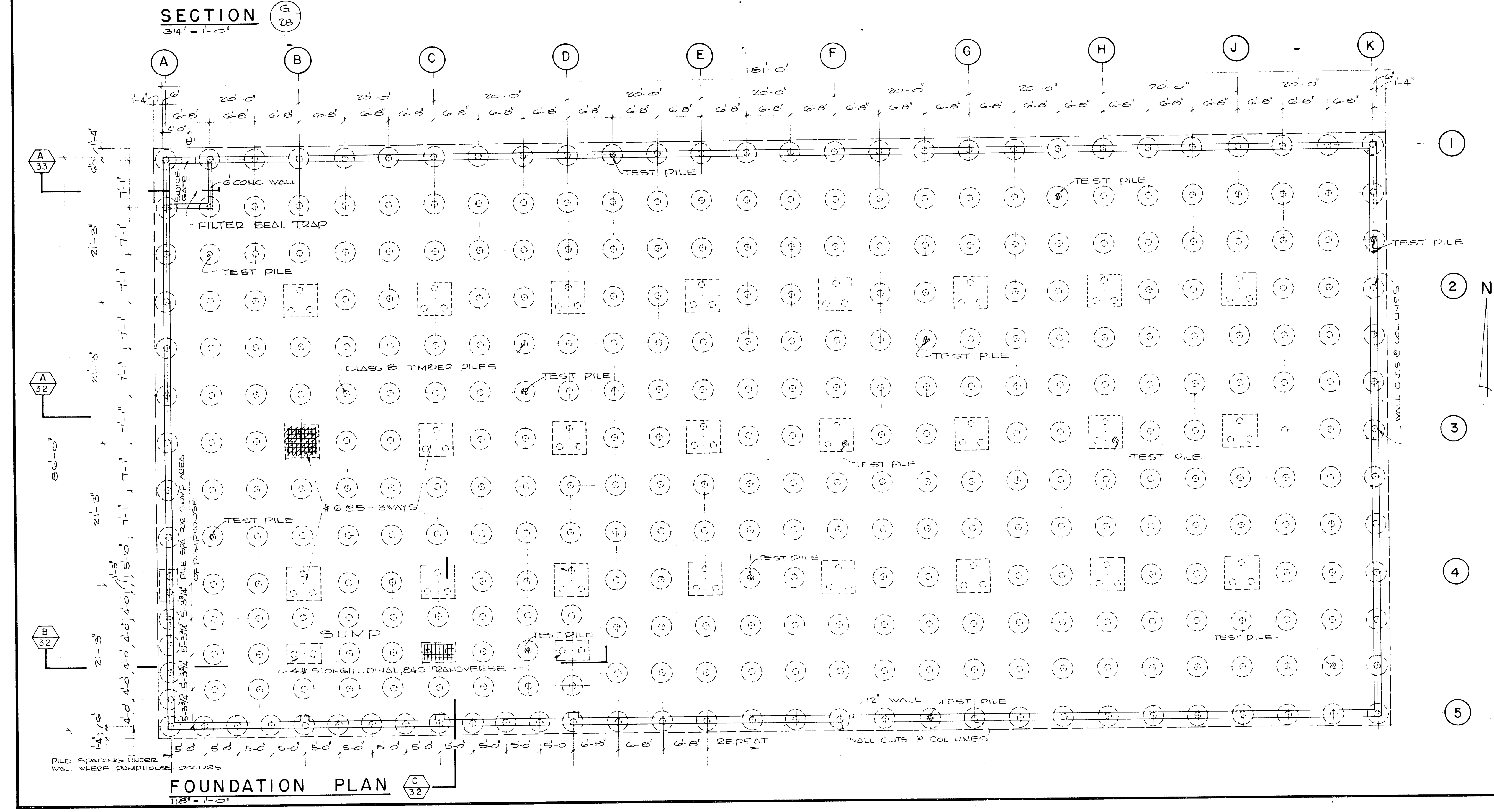
REVISIONS		
SYM	DESCRIPTION	DATE APPROVED
A	CHANGED SLAB THICKNESS	8.8.70 FPM 1.1



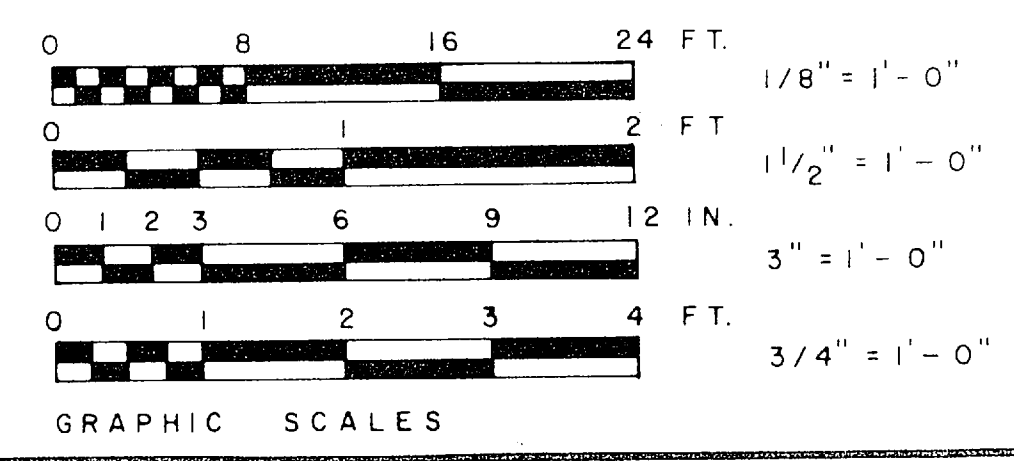
DETAIL 27/28
SCALE 3" = 1'-0"



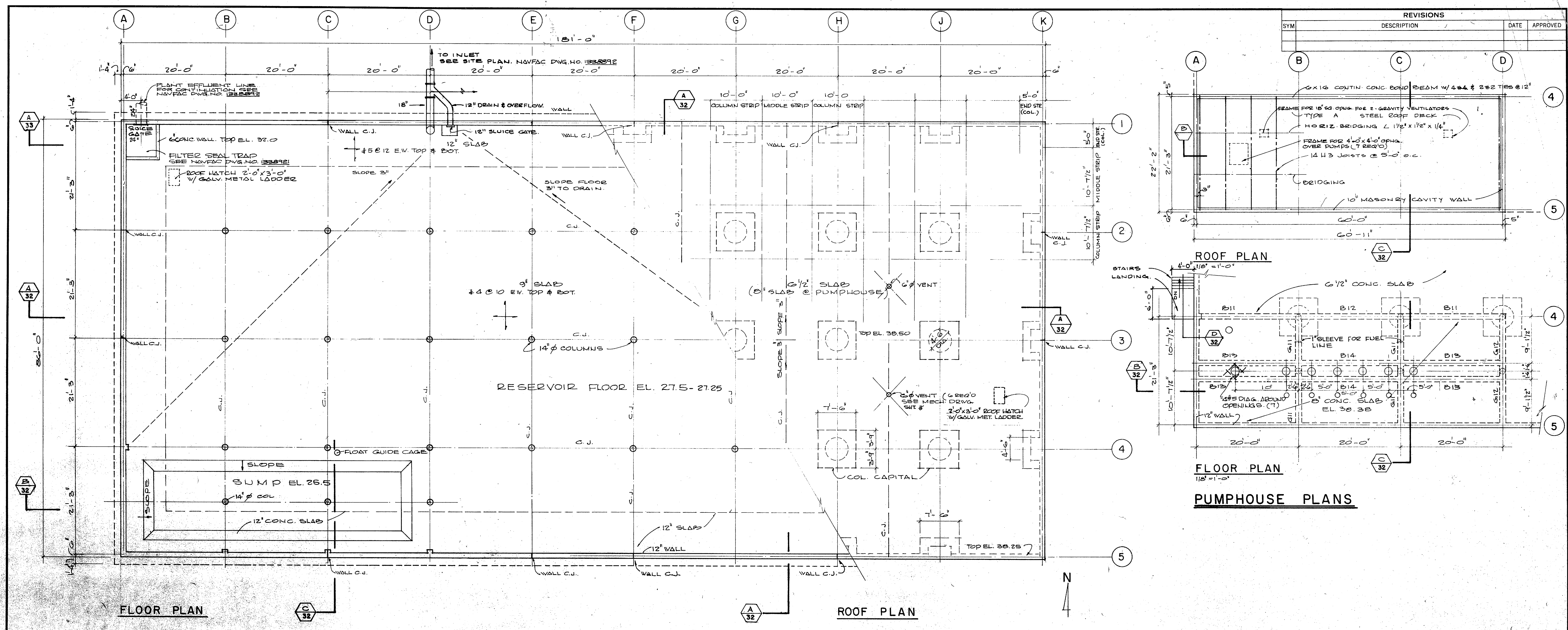
FRAMING PLAN ROOF HATCH DETAIL
SCALE: 1 1/2" = 1'-0"



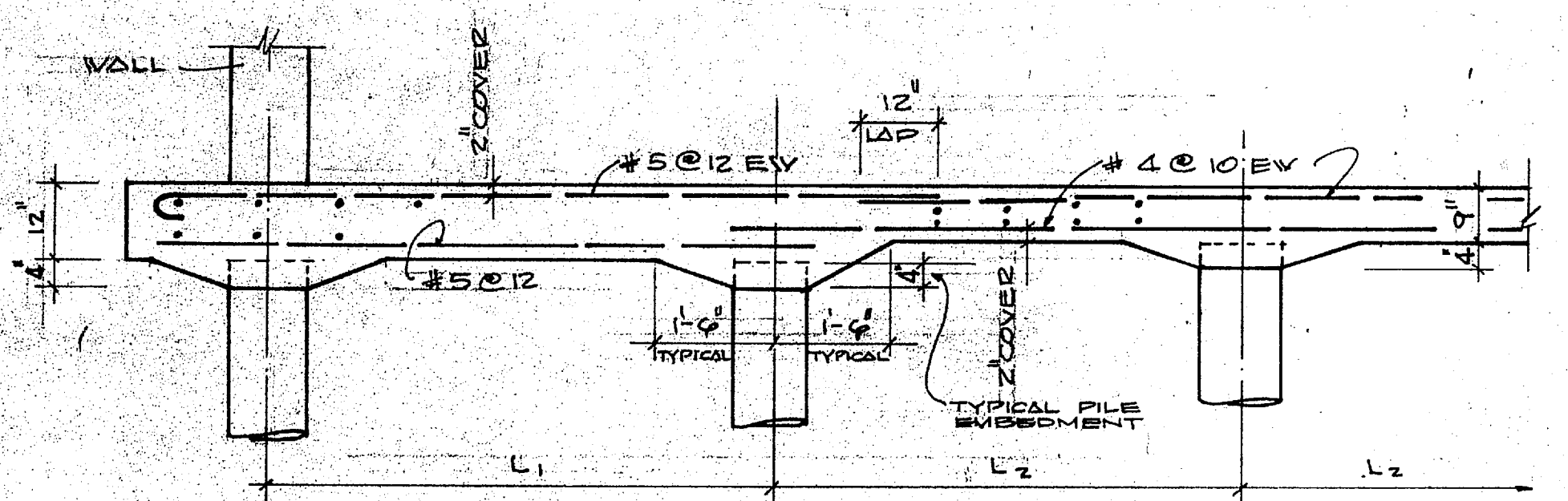
FOUNDATION PLAN
SCALE 1/8" = 1'-0"



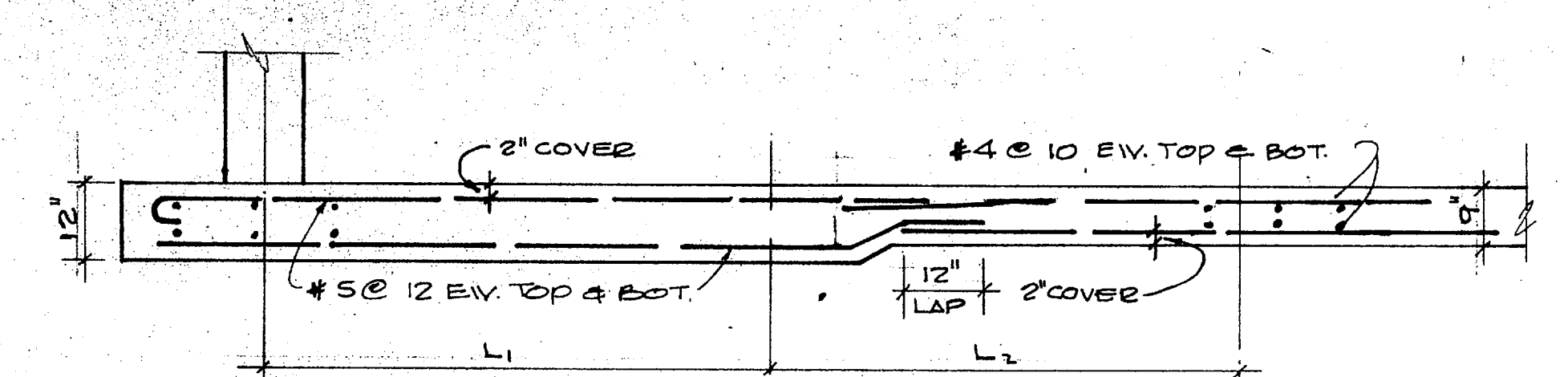
HENRY VON OESSEN & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, N. C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NORFOLK, VA.	
DES. J.R.A., J.E.C. DR. J.W. DR. J.C.H.	SUPV. G.P. CH. ENGR. H.L.C.	NAVAL STATION	NAVAL FACILITIES ENGINEERING COMMAND
SUBMITTED BY: [Signature]		WATER TREATMENT PLANTS, WELLS AND DISTRIBUTION SYSTEM	
FIRM MEMBERS: [Signature]		CAMP LEJEUNE, NORTH CAROLINA	
UFO: [Signature]		RESERVOIR & STATION FOUNDATION PLAN	
HOLD. [Signature]		PUMPING STATION SECTION & DETAIL	
APPROVED: [Signature]	DATE: [Date]	LOG SHEET NO. 80091	PROJECT DRAWING NO. 1338918
PUBLIC WORKS OFFICER: [Signature]	DATE: [Date]	CONTRACT NO. N62470-70-B-C939	SHEET 30 OF 49
SCALE: AS SHOWN		SPEC: 05-70-0939	DATE: 8.8.70
		84918	



RESERVOIR PLANS - 1,000,000 GALLONS
SCALE AS SHOWN, 1/8" = 1'-0"

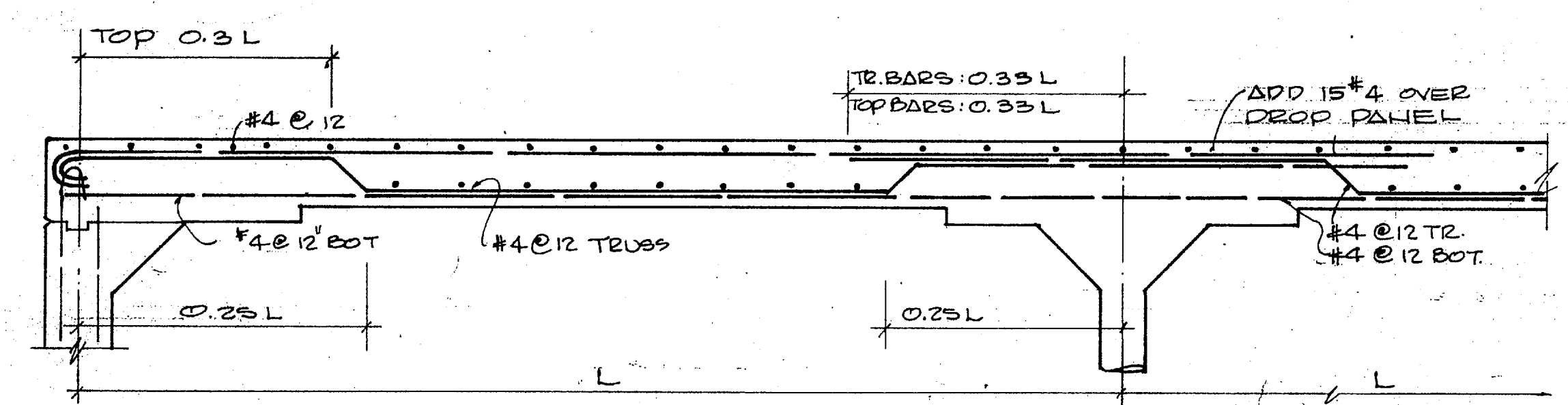


TYPICAL SECTION COLUMN STRIP
NO SCALE

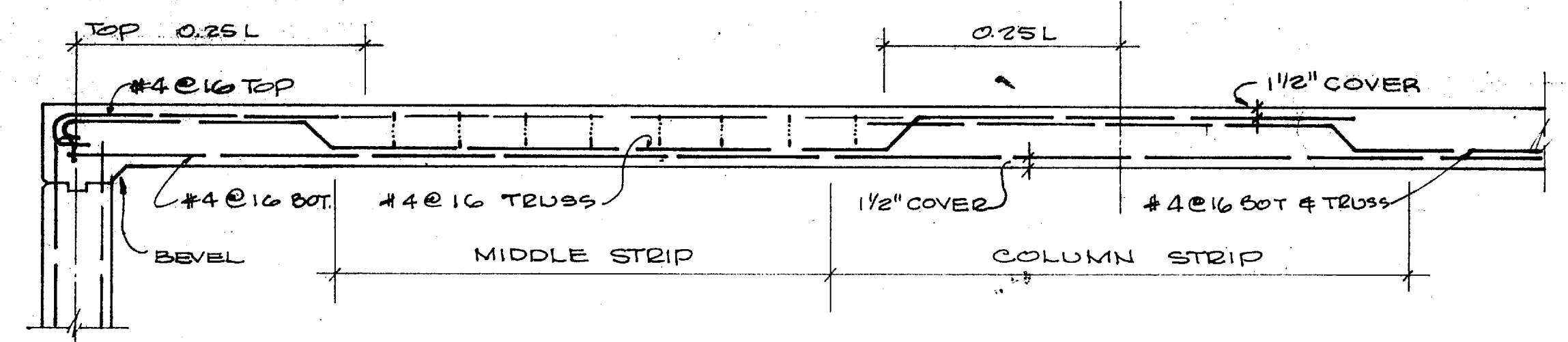


TYPICAL SECTION MIDDLE STRIP
NO SCALE

FLOOR SLAB



TYPICAL SECTION COLUMN STRIP
NO SCALE



TYPICAL SECTION MIDDLE STRIP
NO SCALE

ROOF SLAB

TYPICAL BENDING DETAILS

NOTE: ALL SLABS TO HAVE BAR SUPPORTS IN ACCORDANCE WITH CRSI & A.C.I. STANDARDS.

BEAM & GIRDER SCHEDULE						
MARK	SIZE	REINFORCING			STIRRUPS	
		W	D	BOTTOM	TRUSS	@ SUPPORT
B 11	14	24	4 # 8	2 # 8	2 # 4	# 3 @ 2 1/2', 17 @ 5', REM. @ 10'
B 12	14	24	4 # 8	2 # 8	2 # 4	# 3 DO
B 13	12	20	2 # 5	2 # 6	2 # 4	# 3 @ 1' 3", 6 @ 9', REM. @ 18"
B 14	12	20	2 # 5	2 # 6	1 # 9	# 3 DO
G 11	14	20	2 # 5	-	5 # 5 CONT	# 4 @ 1' 3", 4 @ 6', REM. @ 18"
G 12	14	20	2 # 6	-	5 # 5 CONT	# 4 DO

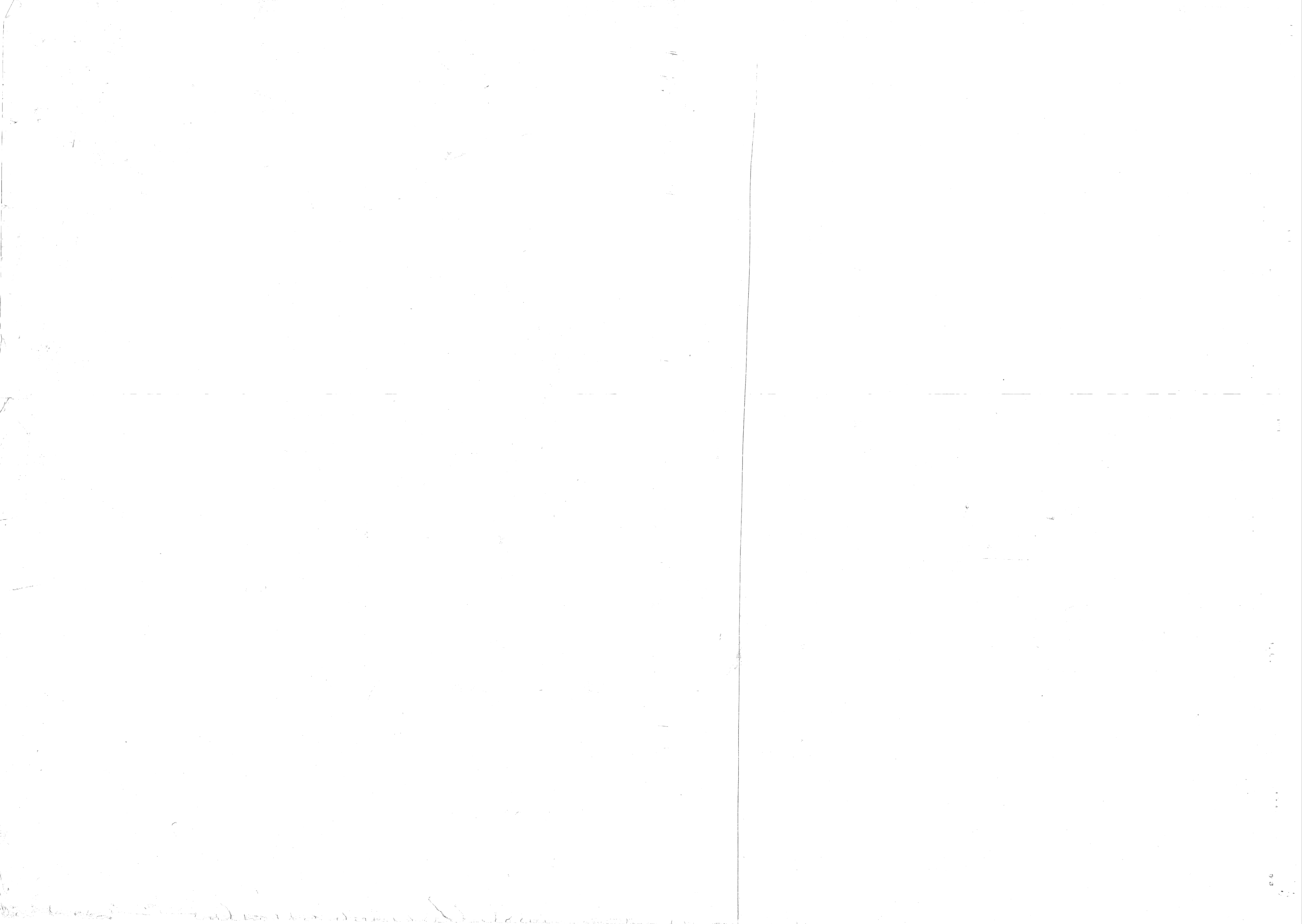
STRUCTURAL NOTES

- DESIGN LIVE LOADS: ROOF - 20 PSF, PUMPHOUSE 150 PSF.
- BASE BID ON PROVIDING 3" ROOT CLASS B TIMBER PILES, 20' MIN. CAP.
- CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS - 3000 PSI.
- POUR SLAB & WALLS IN CHECKERBOARD PATTERN WITH MIN. 7 DAYS BETWEEN ADJACENT POURS.
- NO CONSTRUCTION JOINTS PERMITTED UNLESS SHOWN ON DRAWINGS.
- STEEL JOISTS & DECK SHALL BE WELDED TO SUPPORTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

HENRY VON DESEN & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, N.C.
 DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NORFOLK, VA.
 WATER TREATMENT PLANTS, WELLS AND DISTRIBUTION SYSTEM CAMP LEJEUNE, NORTH CAROLINA
 GROUND STORAGE RESERVOIR
 DRAWING NO. 1338919
 SHEET 31 OF 49
 DATE: 05-70-0939

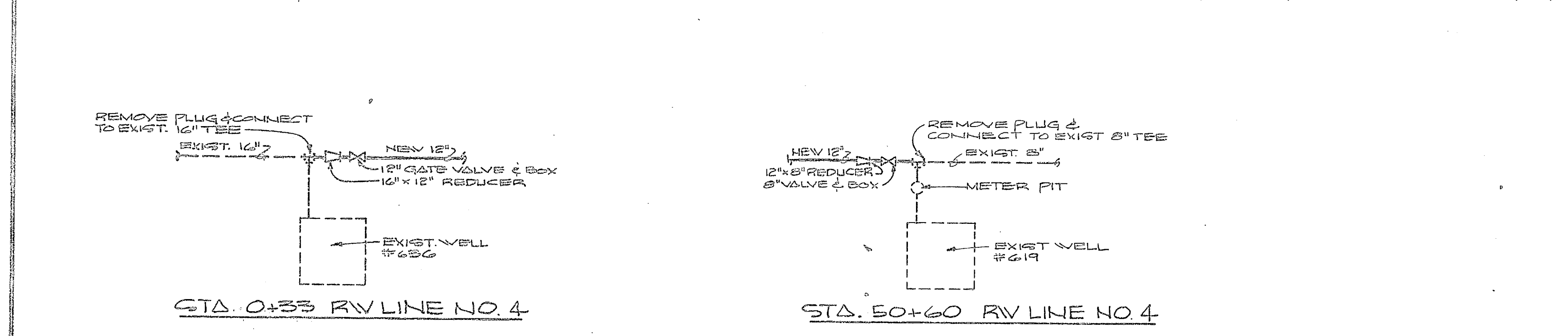
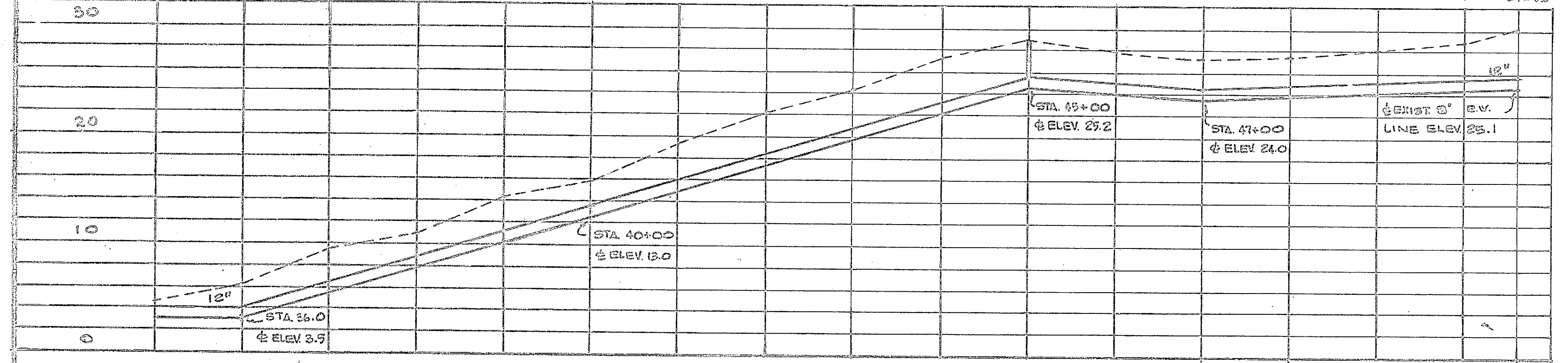
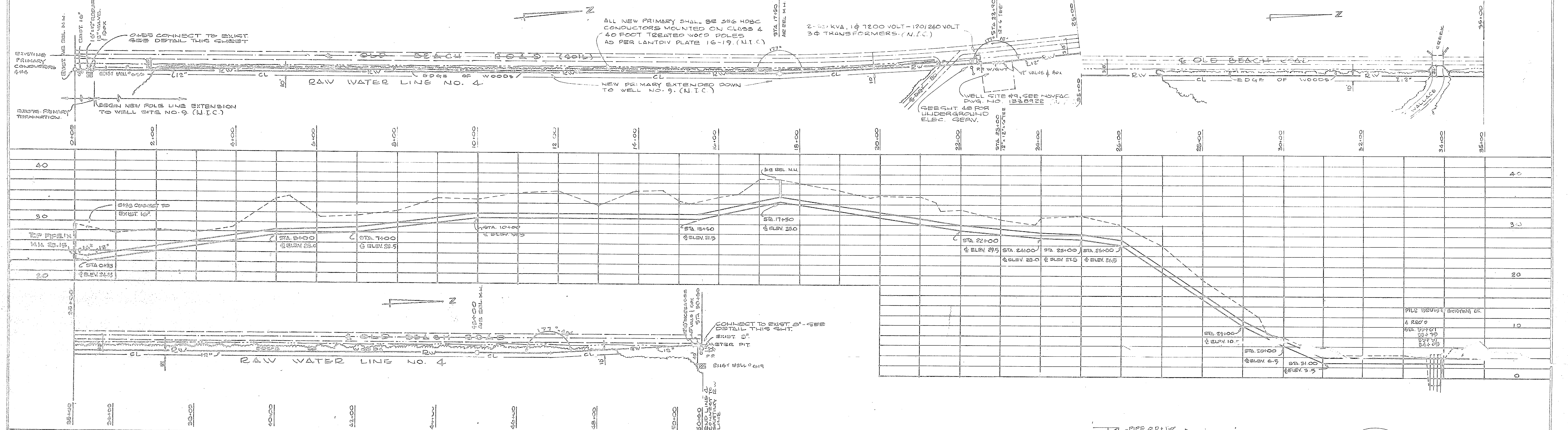
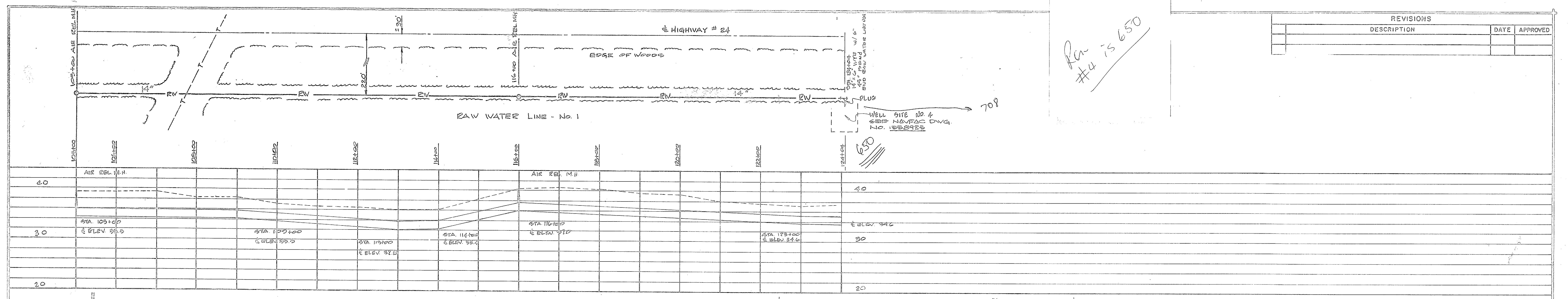




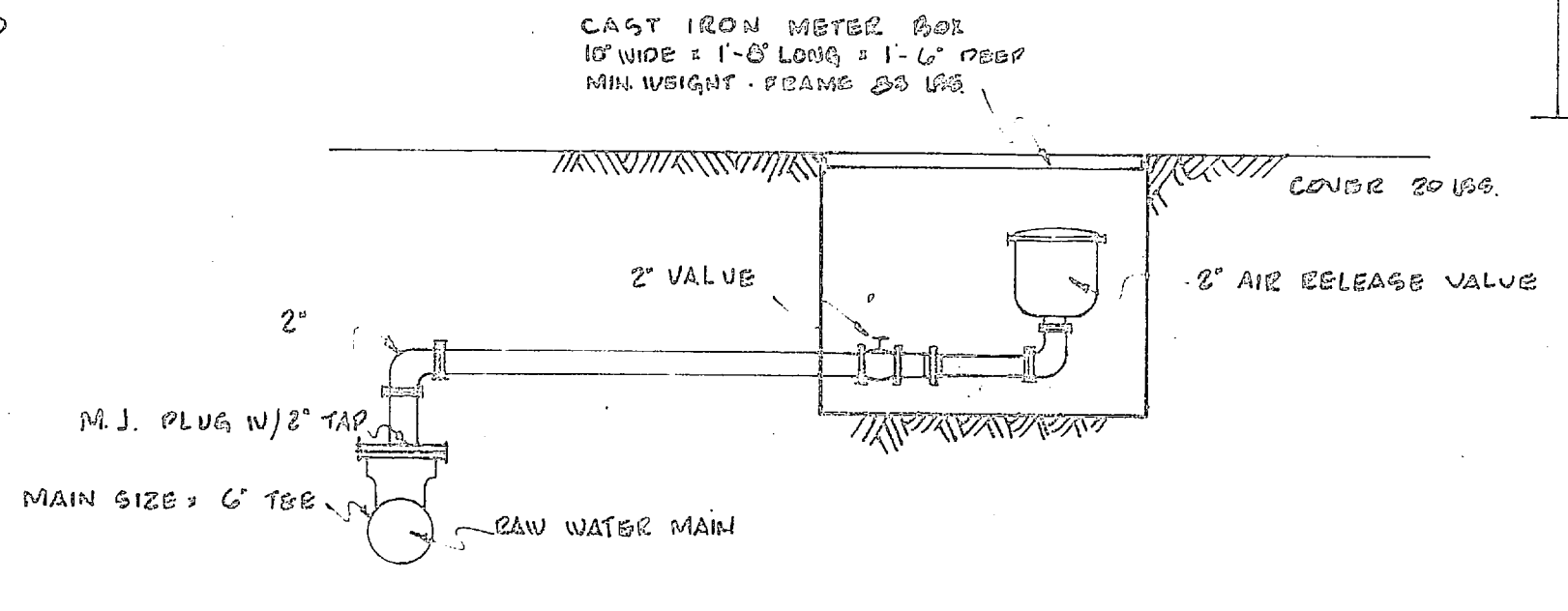
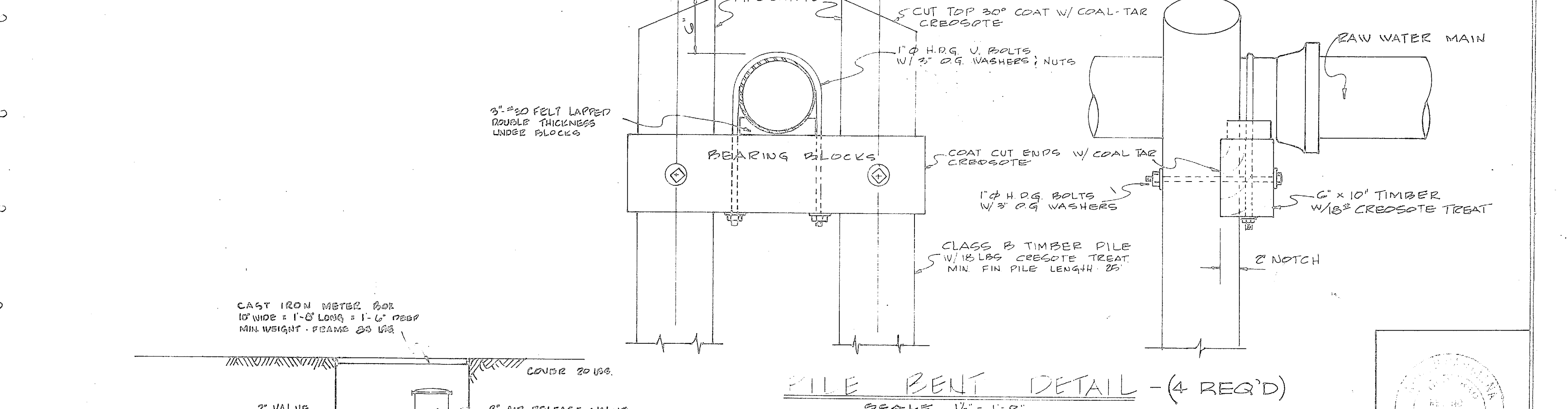


Pa #4 is 650

REVISIONS		
DESCRIPTION	DATE	APPROVED



DETAIL - CONNECTION OF RAW WATER LINES
1/4\"/>

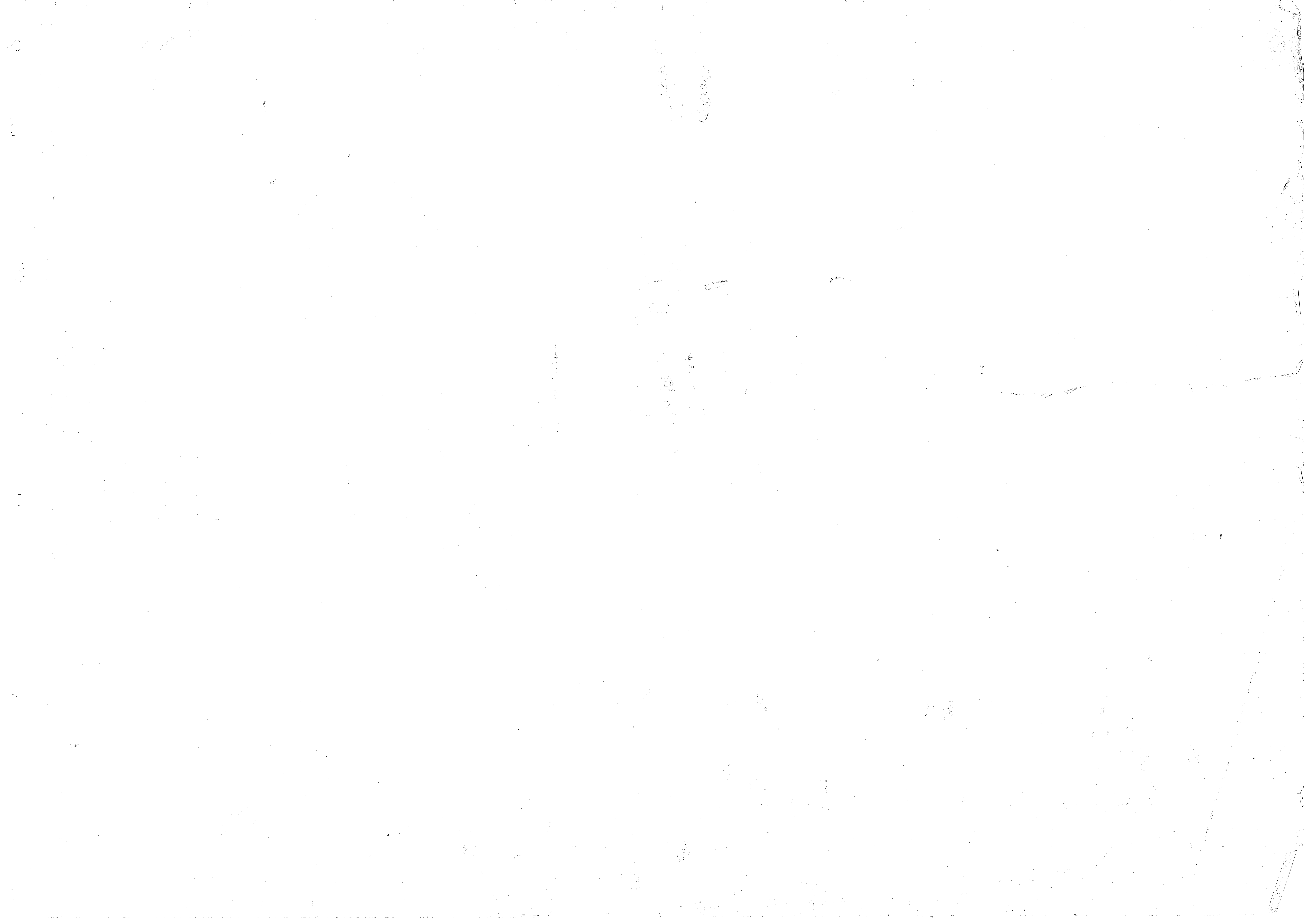


DETAIL AIR RELEASE MANHOLE
NO SCALE

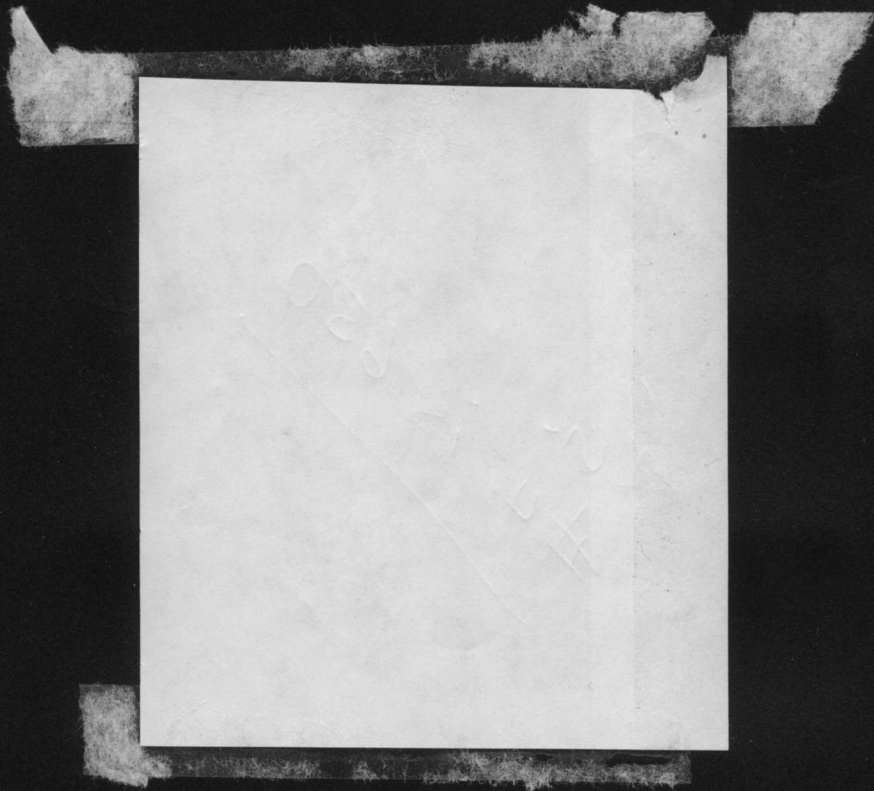
SCALE:
HORIZONTAL
0 20' 40' 100' 200'
VERTICAL
0 2' 4' 8' 12' 16'
1\"/>

N.I.C. = NOT IN CONTRACT

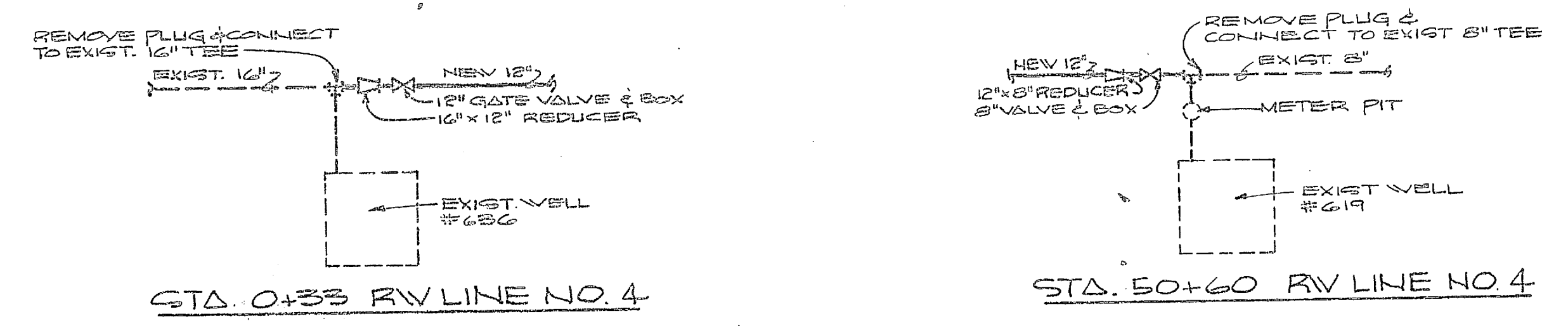
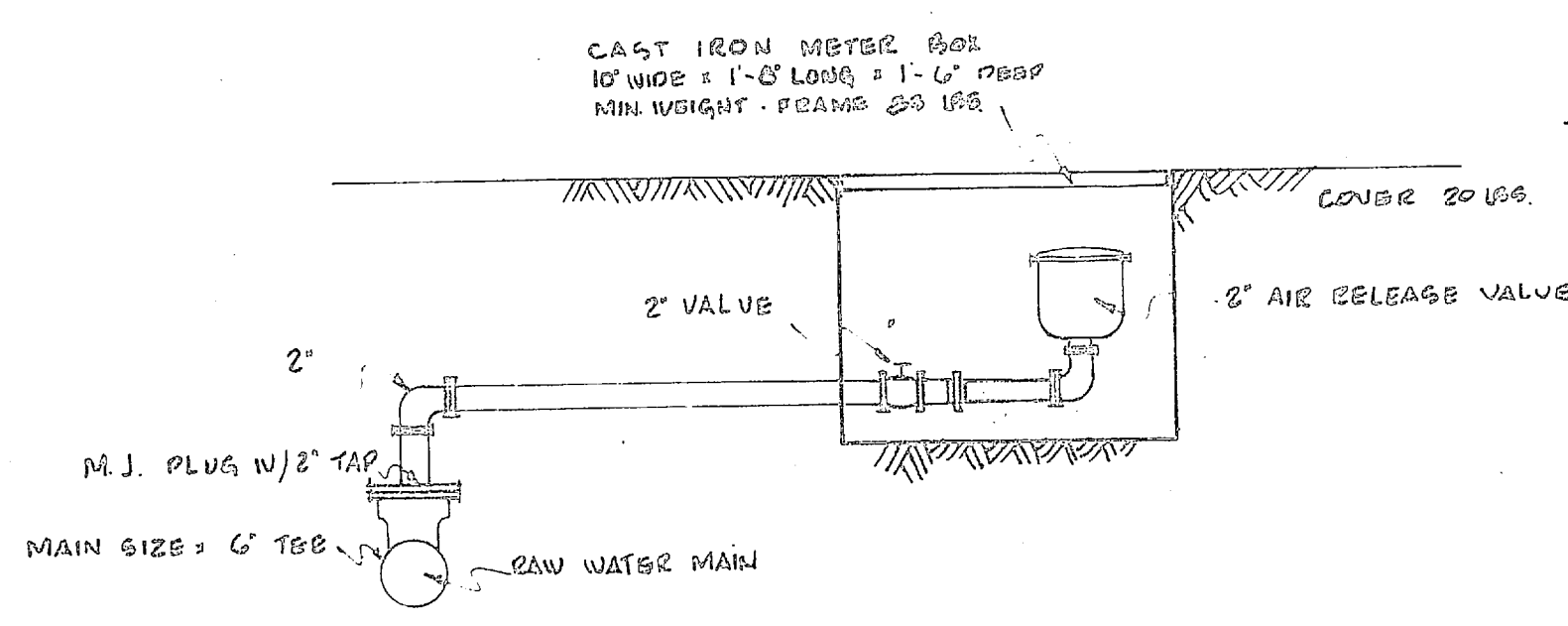
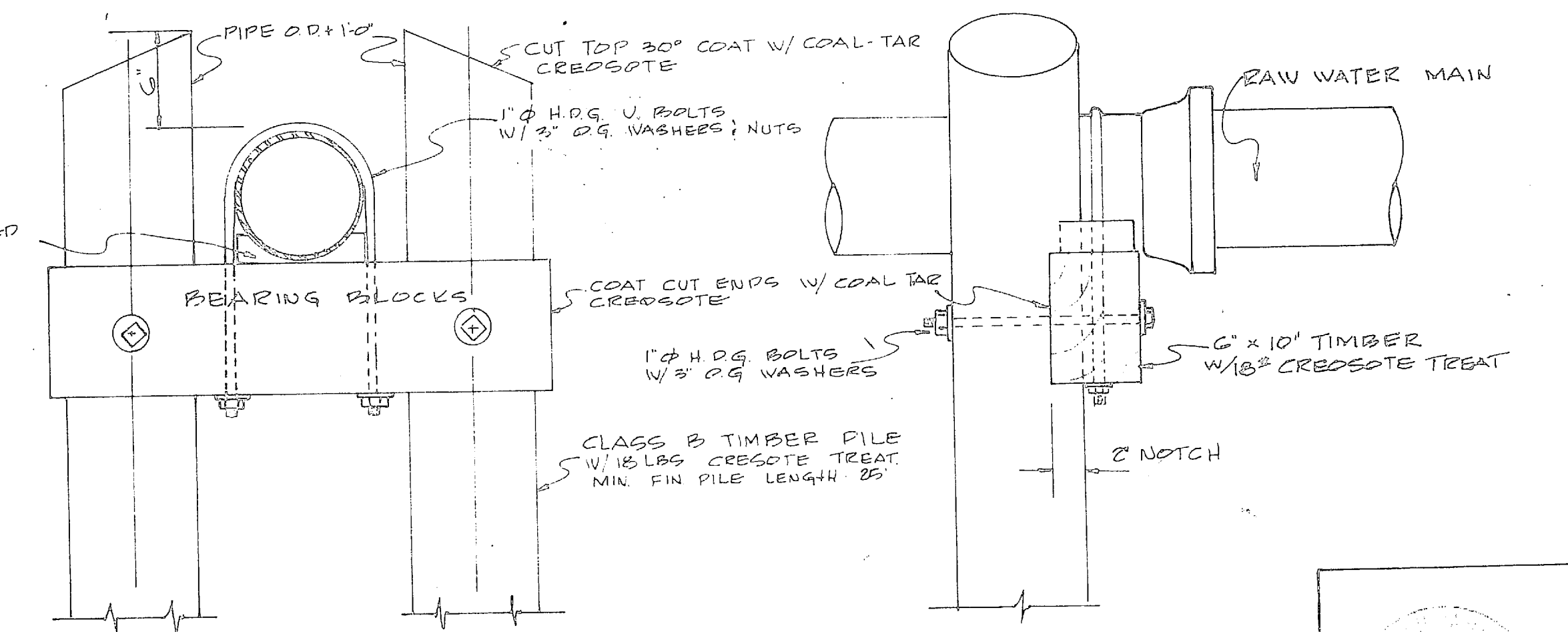
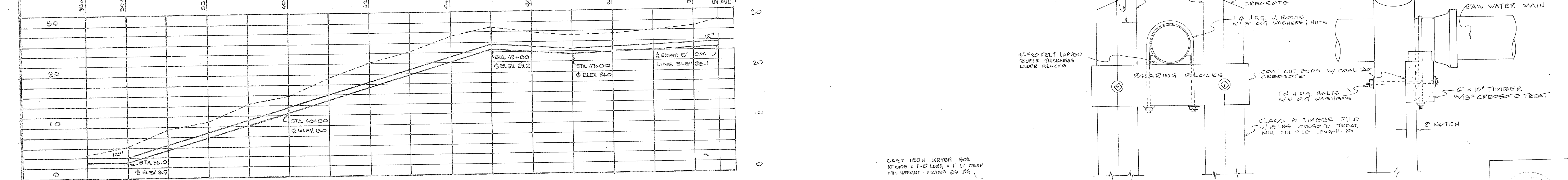
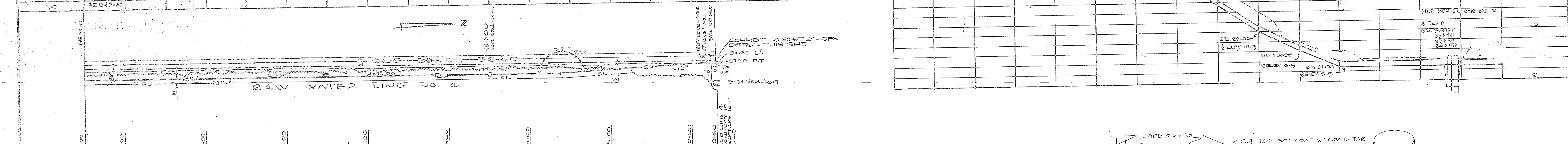
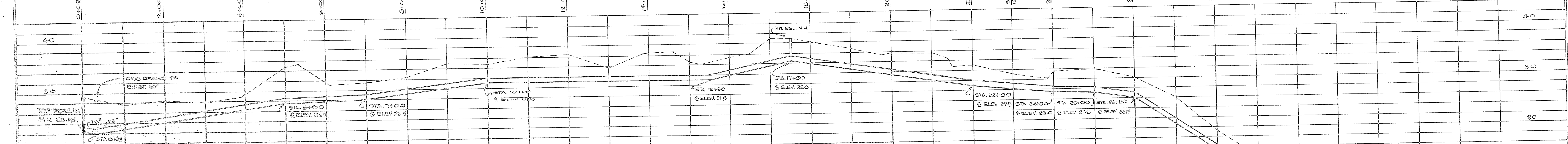
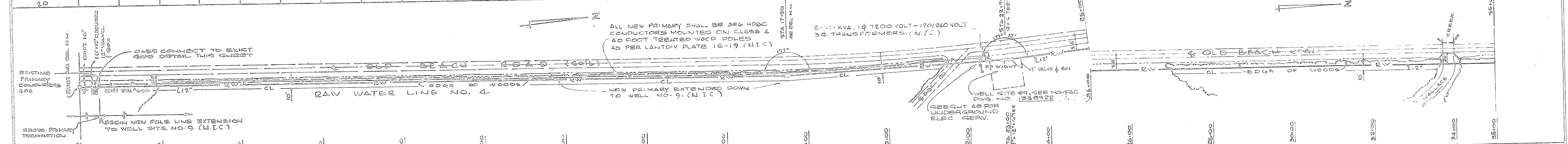
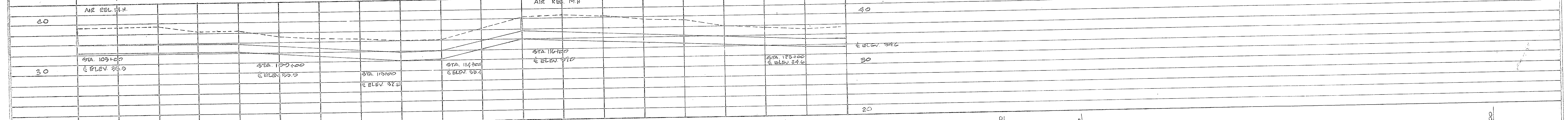
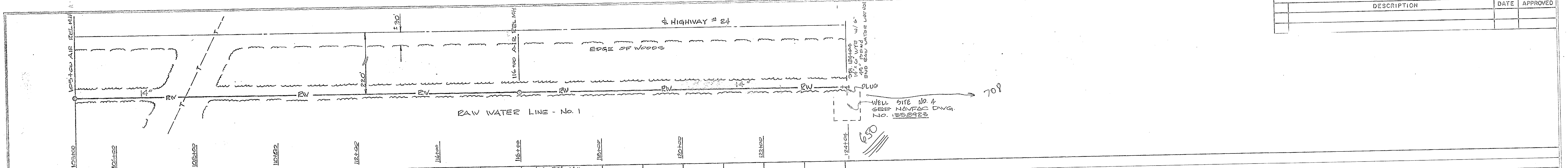
HENRY VON OESER & ASSOCIATES CONSULTING ENGINEERS WELLSVILLE, N. C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NORFOLK, VA.	
DES. J.R.B. DR. C.F. CHK. J.S.D. SUPV. H.V.O. CH. ENGR. J.R.B. REVISIONS: 1. 11/10/50 2. 11/10/50 3. 11/10/50 4. 11/10/50 5. 11/10/50 6. 11/10/50 7. 11/10/50 8. 11/10/50 9. 11/10/50 10. 11/10/50 11. 11/10/50 12. 11/10/50 13. 11/10/50 14. 11/10/50 15. 11/10/50 16. 11/10/50 17. 11/10/50 18. 11/10/50 19. 11/10/50 20. 11/10/50 21. 11/10/50 22. 11/10/50 23. 11/10/50 24. 11/10/50 25. 11/10/50 26. 11/10/50 27. 11/10/50 28. 11/10/50 29. 11/10/50 30. 11/10/50 31. 11/10/50 32. 11/10/50 33. 11/10/50 34. 11/10/50 35. 11/10/50 36. 11/10/50 37. 11/10/50 38. 11/10/50 39. 11/10/50 40. 11/10/50 41. 11/10/50 42. 11/10/50 43. 11/10/50 44. 11/10/50 45. 11/10/50 46. 11/10/50 47. 11/10/50 48. 11/10/50 49. 11/10/50 50. 11/10/50 51. 11/10/50 52. 11/10/50 53. 11/10/50 54. 11/10/50 55. 11/10/50 56. 11/10/50 57. 11/10/50 58. 11/10/50 59. 11/10/50 60. 11/10/50 61. 11/10/50 62. 11/10/50 63. 11/10/50 64. 11/10/50 65. 11/10/50 66. 11/10/50 67. 11/10/50 68. 11/10/50 69. 11/10/50 70. 11/10/50 71. 11/10/50 72. 11/10/50 73. 11/10/50 74. 11/10/50 75. 11/10/50 76. 11/10/50 77. 11/10/50 78. 11/10/50 79. 11/10/50 80. 11/10/50 81. 11/10/50 82. 11/10/50 83. 11/10/50 84. 11/10/50 85. 11/10/50 86. 11/10/50 87. 11/10/50 88. 11/10/50 89. 11/10/50 90. 11/10/50 91. 11/10/50 92. 11/10/50 93. 11/10/50 94. 11/10/50 95. 11/10/50 96. 11/10/50 97. 11/10/50 98. 11/10/50 99. 11/10/50 100. 11/10/50		NAVAL STATION WATER TREATMENT PLANTS, WELLS AND DISTRIBUTION SYSTEM CAMP LEJEUNE, NORTH CAROLINA	
RAW WATER LINES		NAVFAC DRAWING NO. 1338925	
PUBLIC WORKS OFFICER DATE		NAVFAC DRAWING NO. 1338925	
APPROVED		CONTRACT NO. N62470-70-B-0839	
SCALE AS SHOWN		SHEET 37 OF 40	



Row #4 is 650



REVISIONS		
DESCRIPTION	DATE	APPROVED

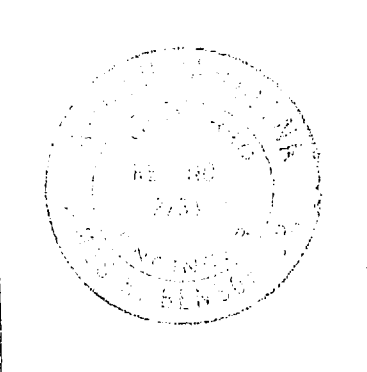


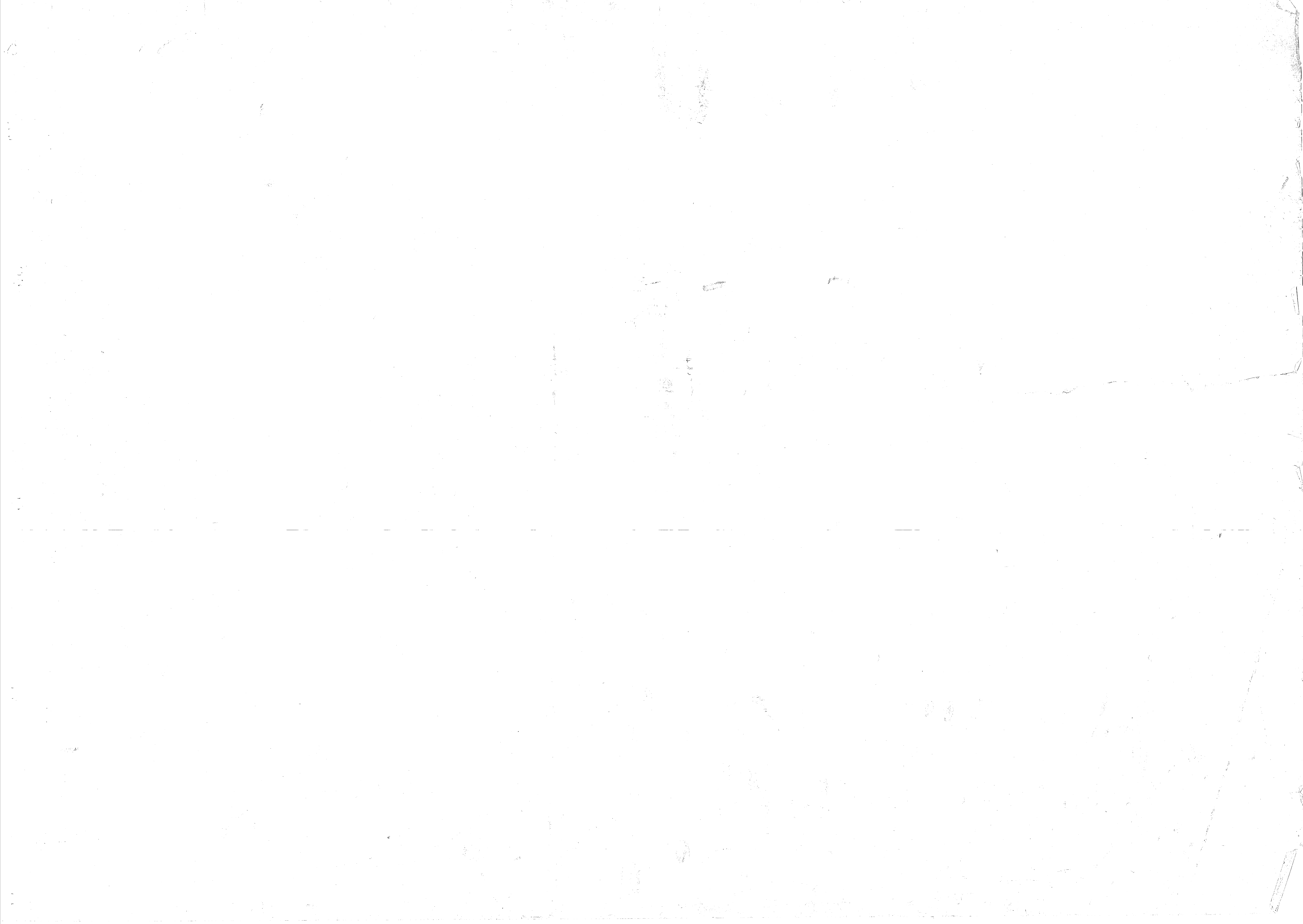
DETAIL - CONNECTION OF RAW WATER LINES
NO SCALE

SCALE:
HORIZONTAL
0 20' 50' 100' 200'
1" = 100'
VERTICAL
0 2' 4' 8' 12' 16'
1" = 8'

N.I.C. = NOT IN CONTRACT

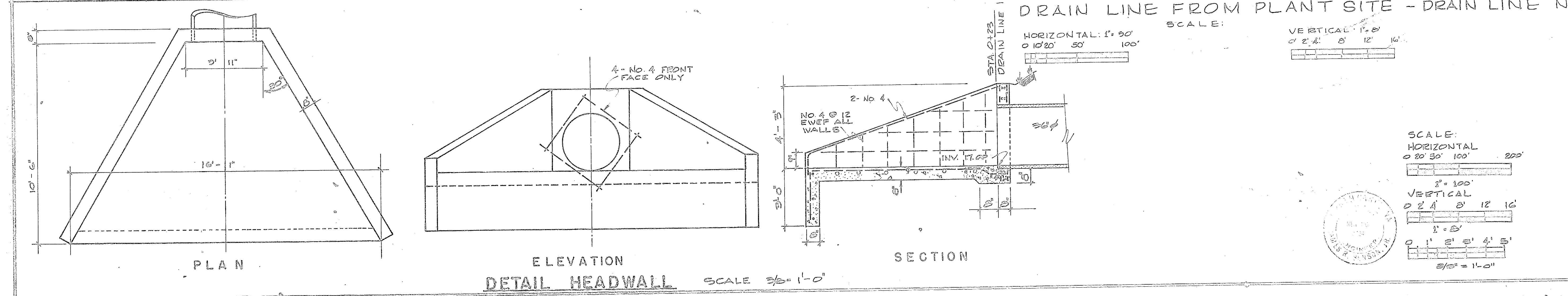
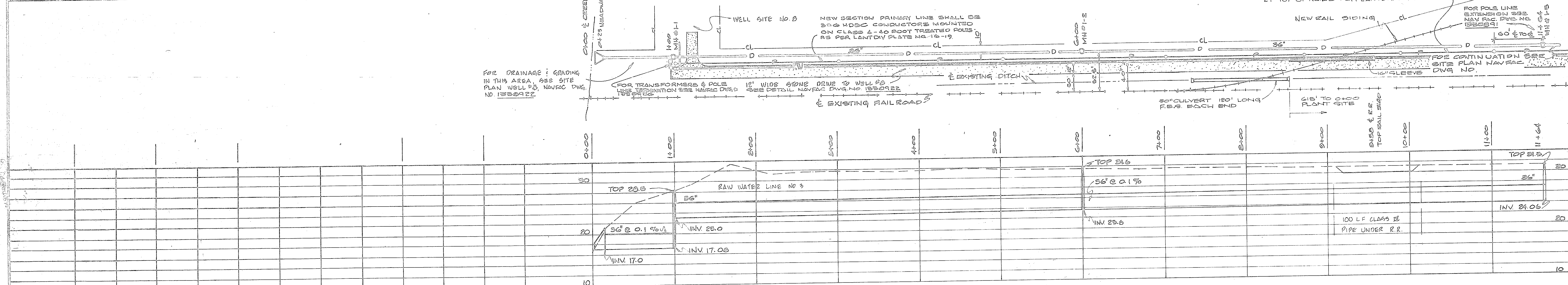
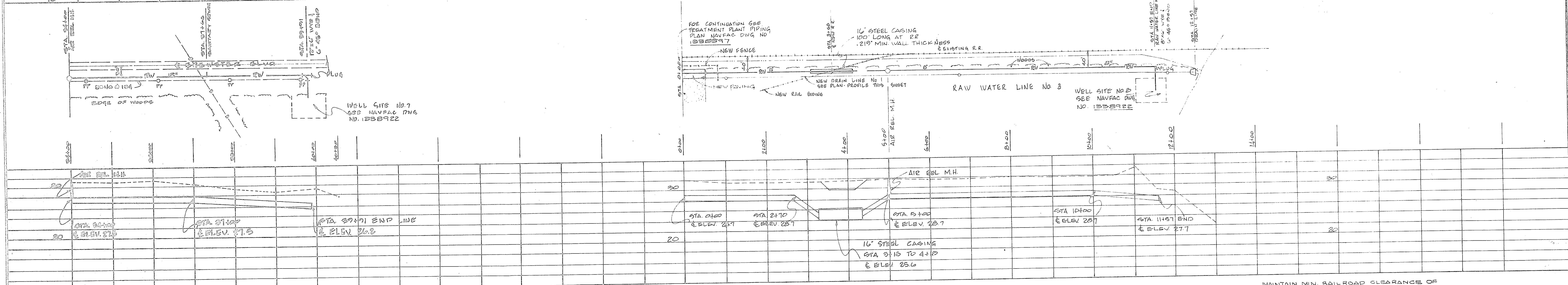
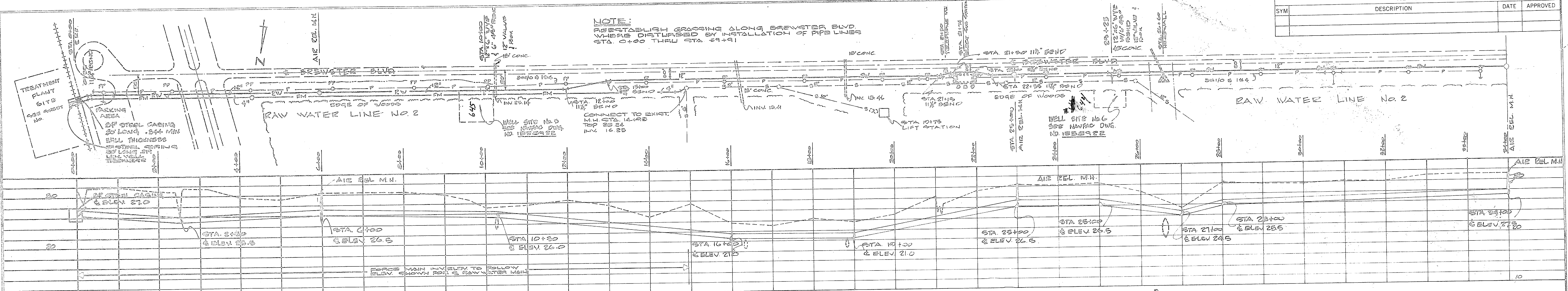
HENRY WOH DENSH & ASSOCIATES CONSULTING ENGINEERS WILKINSON, N. C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION NORFOLK, VA.	
DES. J.R.B. CH. C.F. CHK. J.E.D. SUPV. H.V.D. CAL. ENGR. J.R.B.		PROJECT NO. 1338925	
WATER TREATMENT PLANTS, WELLS AND DISTRIBUTION SYSTEM CAMP LEUENE, NORTH CAROLINA		RAW WATER LINES	
APPROVED: [Signature]		DATE: 05-11-53	SIZE: 30091
PUBLIC WORKS OFFICER: [Signature]		DATE: 05-11-53	NAVFAC DRAWING NO. 1338925
SCALE: AS SHOWN		SPEC: 05-70-0539	CONSTR. CONT. NO. 182470-70-B-0339
		SHEET: 37	OF: 48





REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED

NOTE:
 RE-ESTABLISH GRASSING ALONG BREWSTER BLVD
 WHERE DISTURBED BY INSTALLATION OF PFD LINE
 STA 0+20 THRU STA 4+91

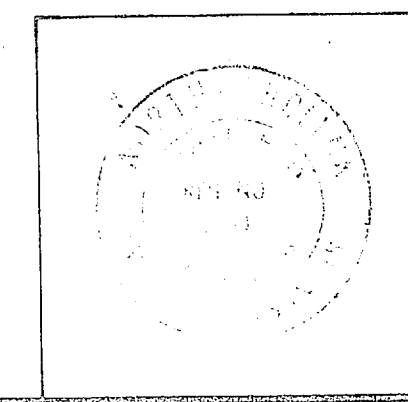
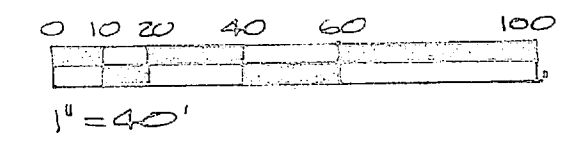


HENRY VOI DESEN & ASSOCIATES CONSULTING ENGINEERS COLUMBIAN, N. C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NORFOLK, VA	
DES. J.R.B.	CHK. J.R.B.	NAVAL STATION	
SUPV. H.V.D.	CHK. ENGR. J.R.B.	WATER TREATMENT PLANTS, WELLS AND DISTRIBUTION SYSTEM	
DATE	DATE	CAMP LEJEUNE, NORTH CAROLINA	
APPROVED		RAW WATER LINES	
PUBLIC WORKS OFFICER		CODE IDENT. NO.	1338926
DATE		NAVFAC ENGINEERING NO.	1338926
DATE		CONTRACT NO.	H2470-70-B-0938
DATE		SCALE	AS SHOWN
DATE		DATE	05-70-0939
DATE		DATE	05-70-0939
DATE		DATE	05-70-0939

REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED
12			
13			
14			



NOTE: REESTABLISH GRABBING WHERE DISTURBED DURING INSTALLATION OF PIPE LINES



HENRY VON GEEB & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, N. C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NORFOLK, VA.	
DES. J.R.B.	DR. A.W.	CHK. J.R.B.	DATE
SUPV. H.V.O.	CH. ENGR. J.R.B.	SUBMITTED BY	
APPROVED		DATE	
PUBLIC WORKS OFFICER		DATE	
PROJECT NO. 80091		DRAWING NO. 1338927	
SCALE AS SHOWN		SHEET 59 OF 59	

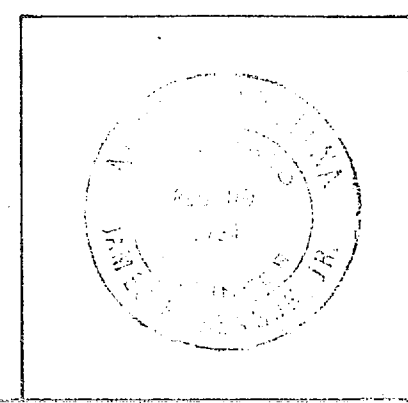
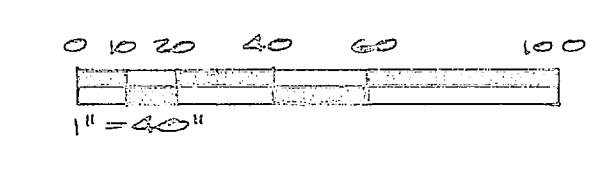
84927



REVISIONS		
SYMBOL	DESCRIPTION	DATE APPROVED
69		
70		



NOTE: REESTABLISH GRABBING WHERE DISTURBED DURING INSTALLATION OF PIPE LINES

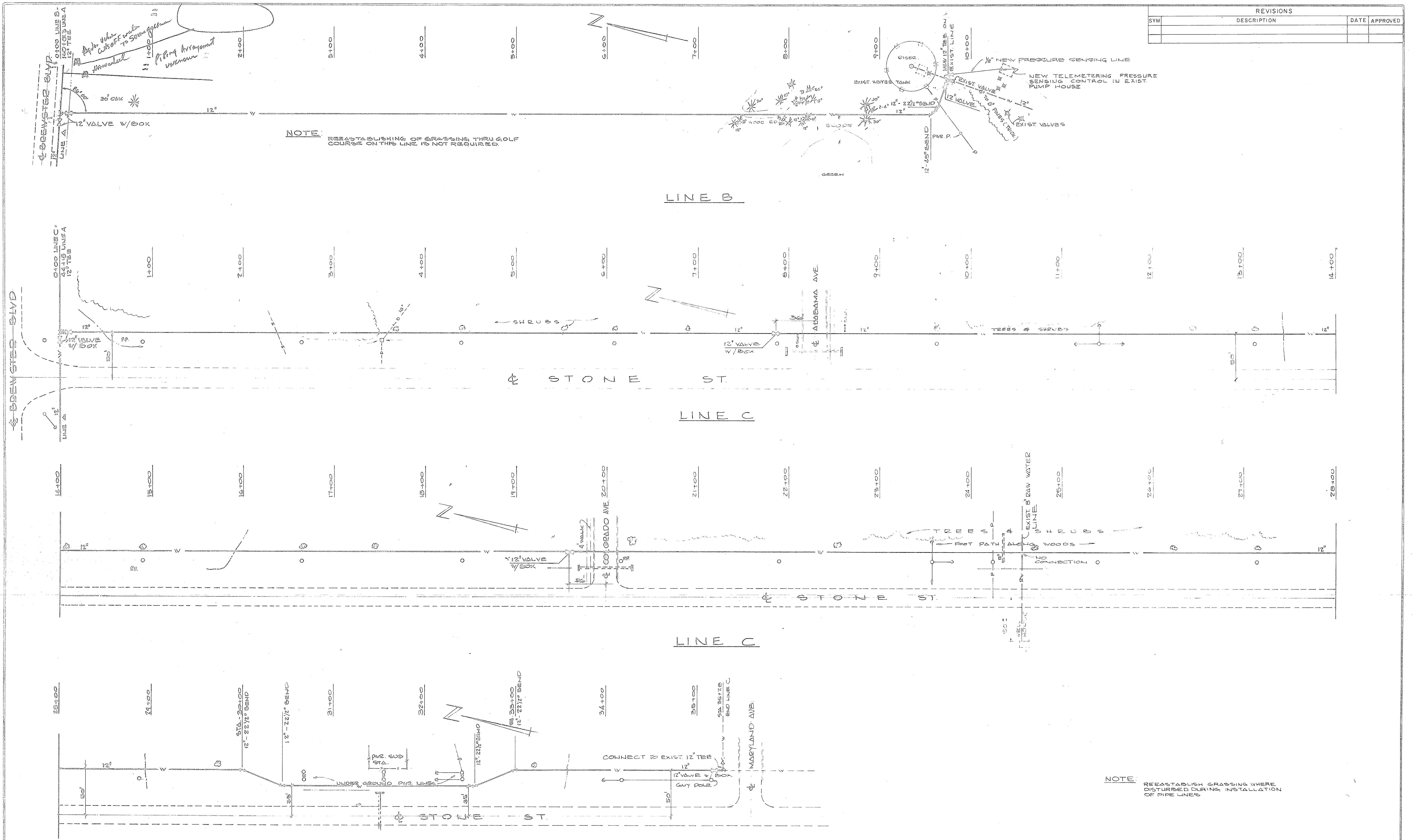


HENRY WOLF GESLER & ASSOCIATES CONSULTING ENGINEERS VIRGINIA, U.S.A.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NORFOLK, VA	
DESIGNER: J.R.B.	CHECKED: A.W.	DATE: 4/25/70	PROJECT: WATER TREATMENT PLANTS, WELLS AND DISTRIBUTION SYSTEM
APPROVED: [Signature]	DATE: 4/25/70	CONTRACT NO.: N62470-70-8-0836	SHEET NO. OF 43
DRAWING NO. 1338928		SPEC. 05-70-0939	

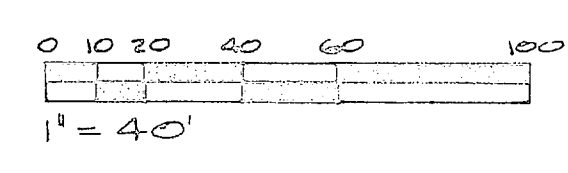
84928



REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED

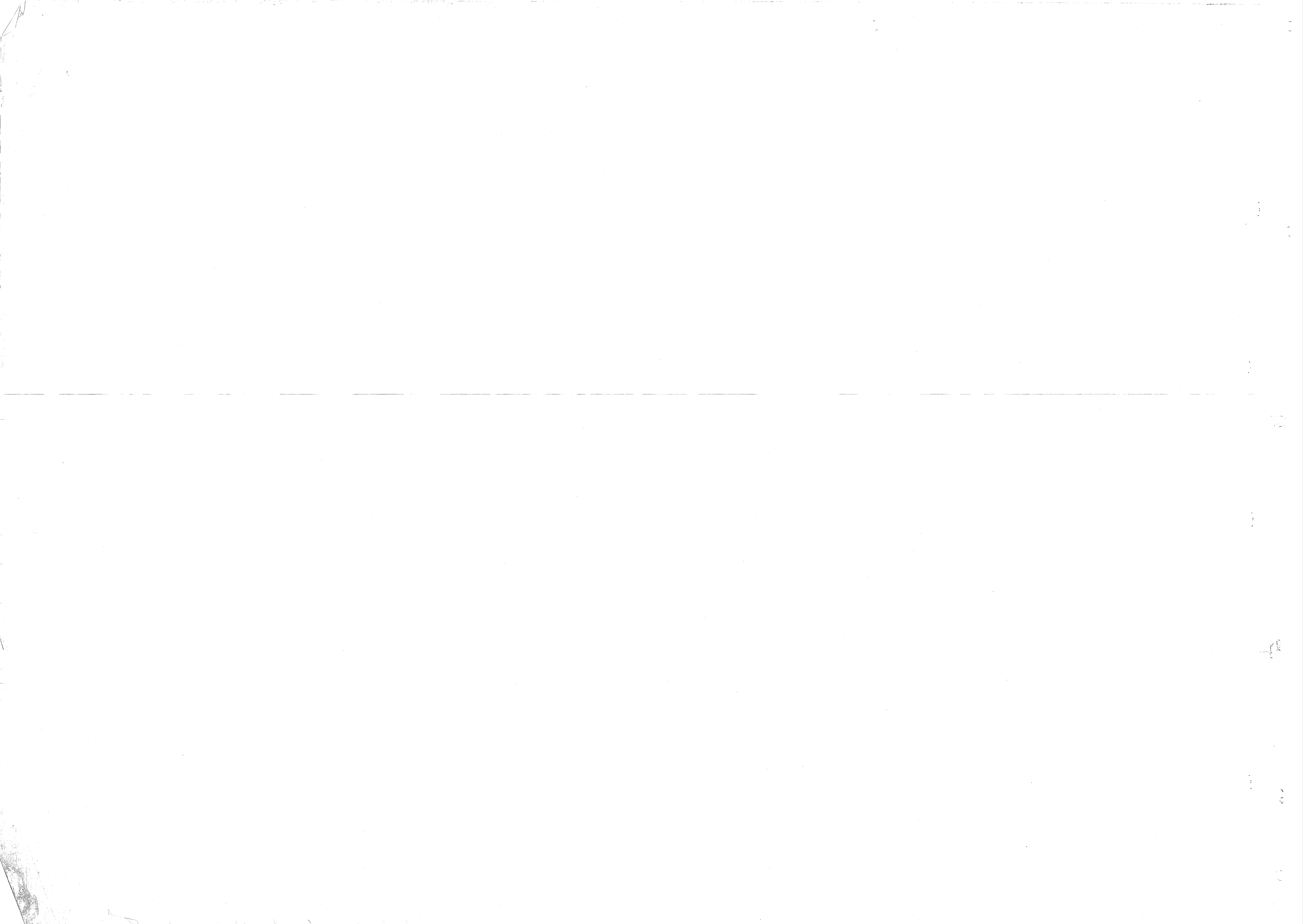


NOTE: RECASTABLISH GRASSING WHERE DISTURBED DURING INSTALLATION OF PIPE LINES

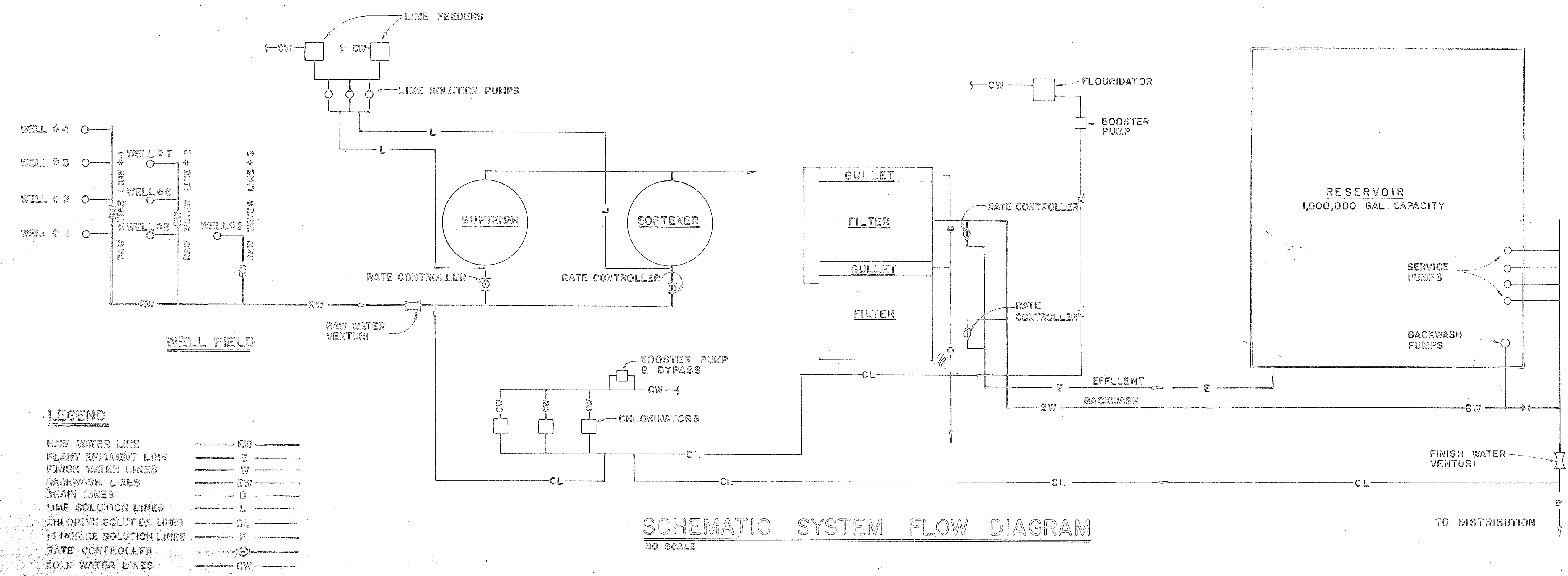


HENRY VON OESSEN & ASSOCIATES CONSULTING ENGINEERS FARMINGTON, N. C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION NORFOLK, VA.	
DES. J.R.B.	DR. A.W.	CHK. J.R.B.	
SUPV. H.V.O.	CH. ENGR. J.R.B.	DATE	
SUBMITTED BY J.R. Beaman		DATE	9/25/70
FIRM NUMBER		RVD 22-11-1	
APP'D. H.V.O.	DIR.	DATE	11/12
PUBLIC WORKS OFFICER		DATE	
APPROVED		DATE	
SCALE AS SHOWN SPEC. 05-70-0939		SHEET 42 OF 25	
NAVFAC DRAWING NO. 80091		NAVFAC DRAWING NO. 1338930	
CONSTR. CONTR. NO. N62470-70-B-0939		CONSTR. CONTR. NO. N62470-70-B-0939	

84930



REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



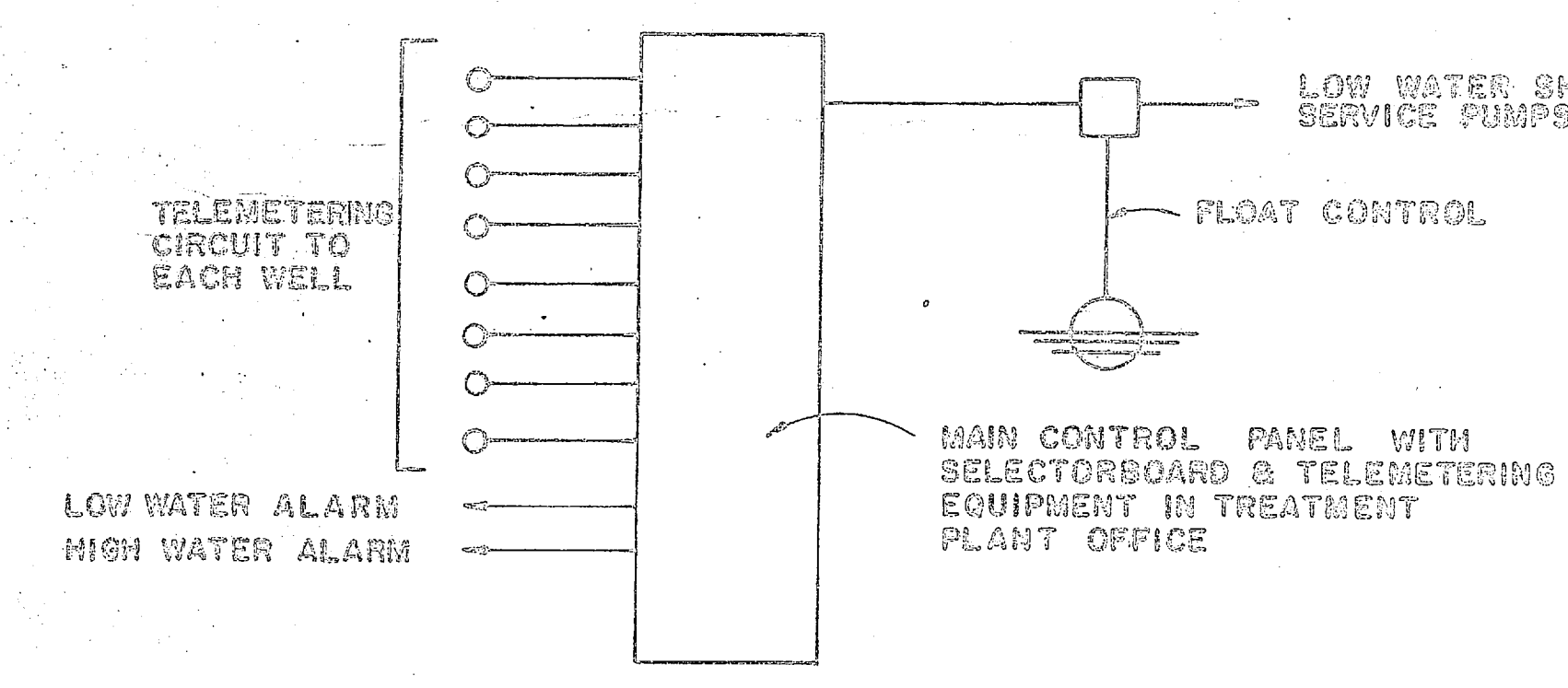
LEGEND

RAW WATER LINE	— RW —
PLANT EFFLUENT LINE	— E —
FINISH WATER LINES	— W —
BACKWASH LINES	— BW —
DRAIN LINES	— D —
LIME SOLUTION LINES	— L —
CHLORINE SOLUTION LINES	— CL —
FLUORIDE SOLUTION LINES	— F —
RATE CONTROLLER	— RC —
COLD WATER LINES	— CW —

SERVICE PUMP OPERATING SCHEDULE

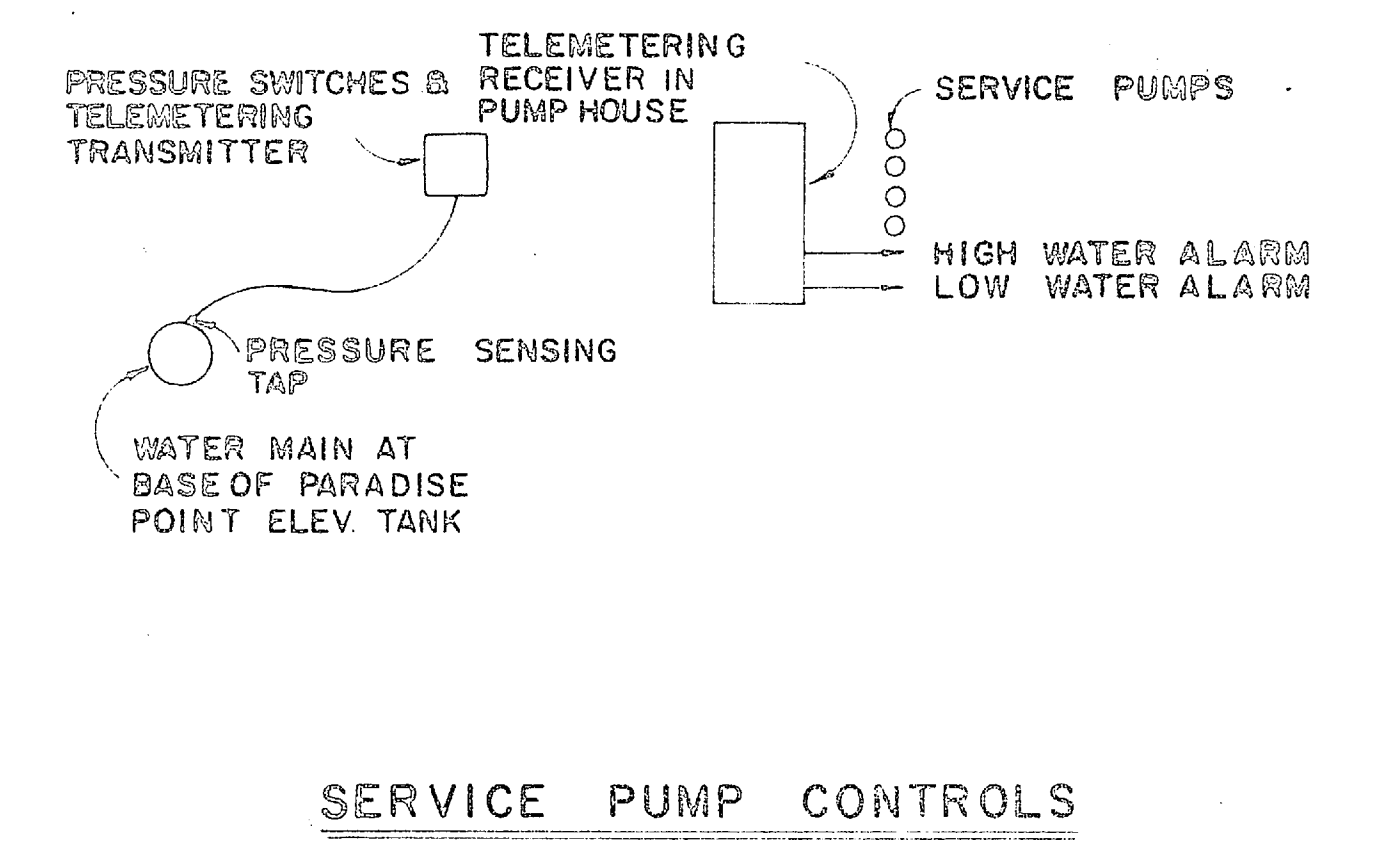
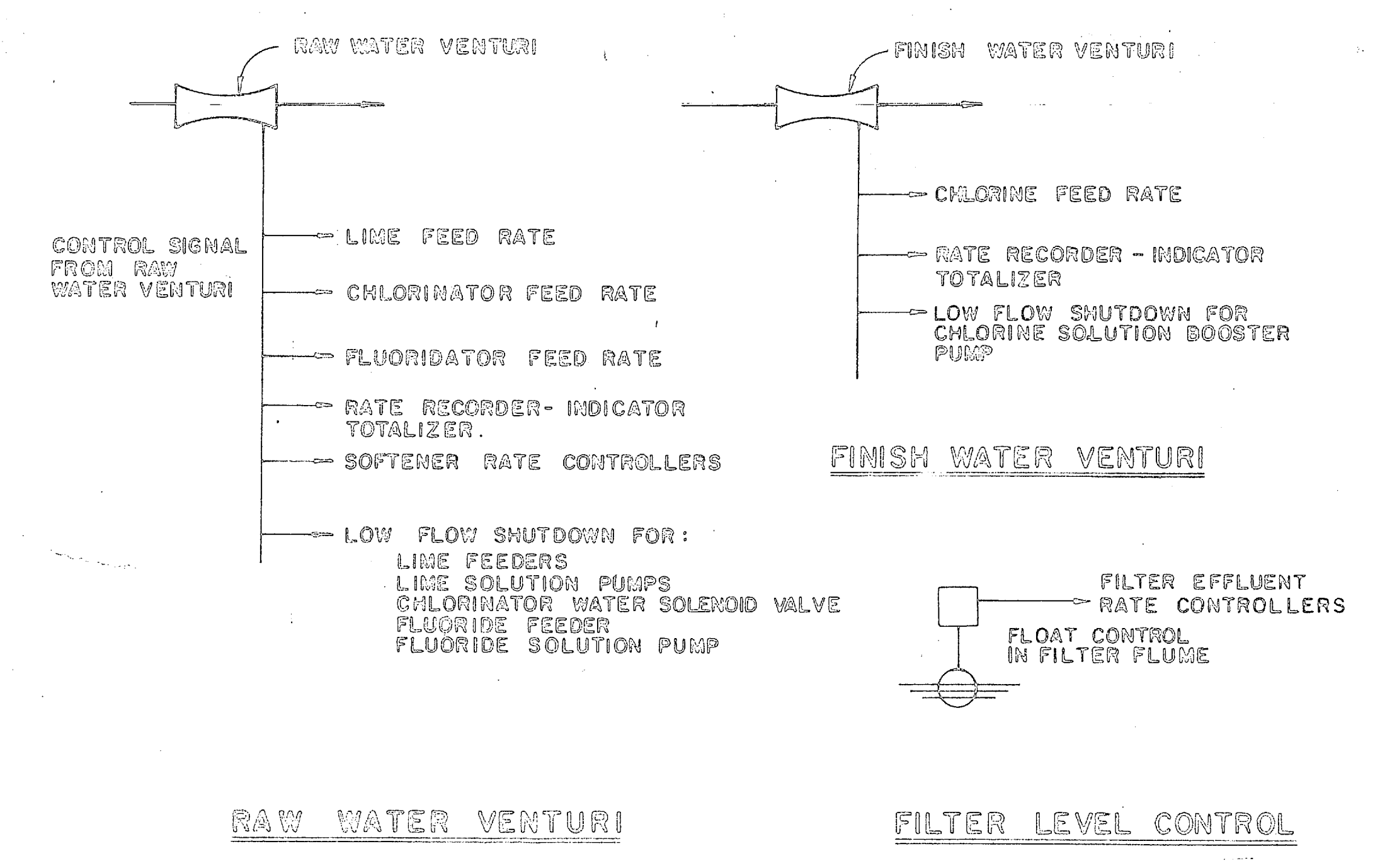
WATER ELEV.	START	STOP	ALARM	START	STOP	ALARM
161.5			HIGH WATER ALARM			0
161.0			PUMP #1	NO PUMPS	RUNNING	
159.0	PUMP #1	PUMP #3	PUMP #1			750
157.0			PUMP #2	PUMP #3	PUMP #1	1500
152.0	PUMP #2	PUMP #4	PUMP #2			2200
153.0	PUMPS #3 & #4	RUNNING	PUMP #4	PUMP #2		3000
148.0			LOW WATER ALARM			

NOTE: PUMPS #1 & #2 TO BE MANUALLY ALTERNATED
PUMPS #3 & #4 TO BE MANUALLY ALTERNATED



WELL OPERATING SCHEDULE

RESERVOIR WATER ELEV.	RIISING WATER LEVEL READ UP	FALLING WATER LEVEL READ DOWN
37.0	HIGH WATER ALARM	
36.5	STOP STEP 1	NO PUMPS RUNNING
36.16	STOP STEP 2	START STEP 1
36.85	STOP STEP 3	START STEP 2
35.5	STOP STEP 4	START STEP 3
35.16	ALL PUMPS RUNNING	START STEP 4
34.0	LOW WATER ALARM	
33.0	BACKWASH & SERVICE PUMP SHUTDOWN	



HENRY VON OESER & ASSOCIATES
CONSULTING ENGINEERS
DALLAMOUNT, N. C.

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NORFOLK, VA.

WATER TREATMENT PLANTS, WELLS AND DISTRIBUTION SYSTEM
CAMP LEJEUNE, NORTH CAROLINA

FLOW DIAGRAM

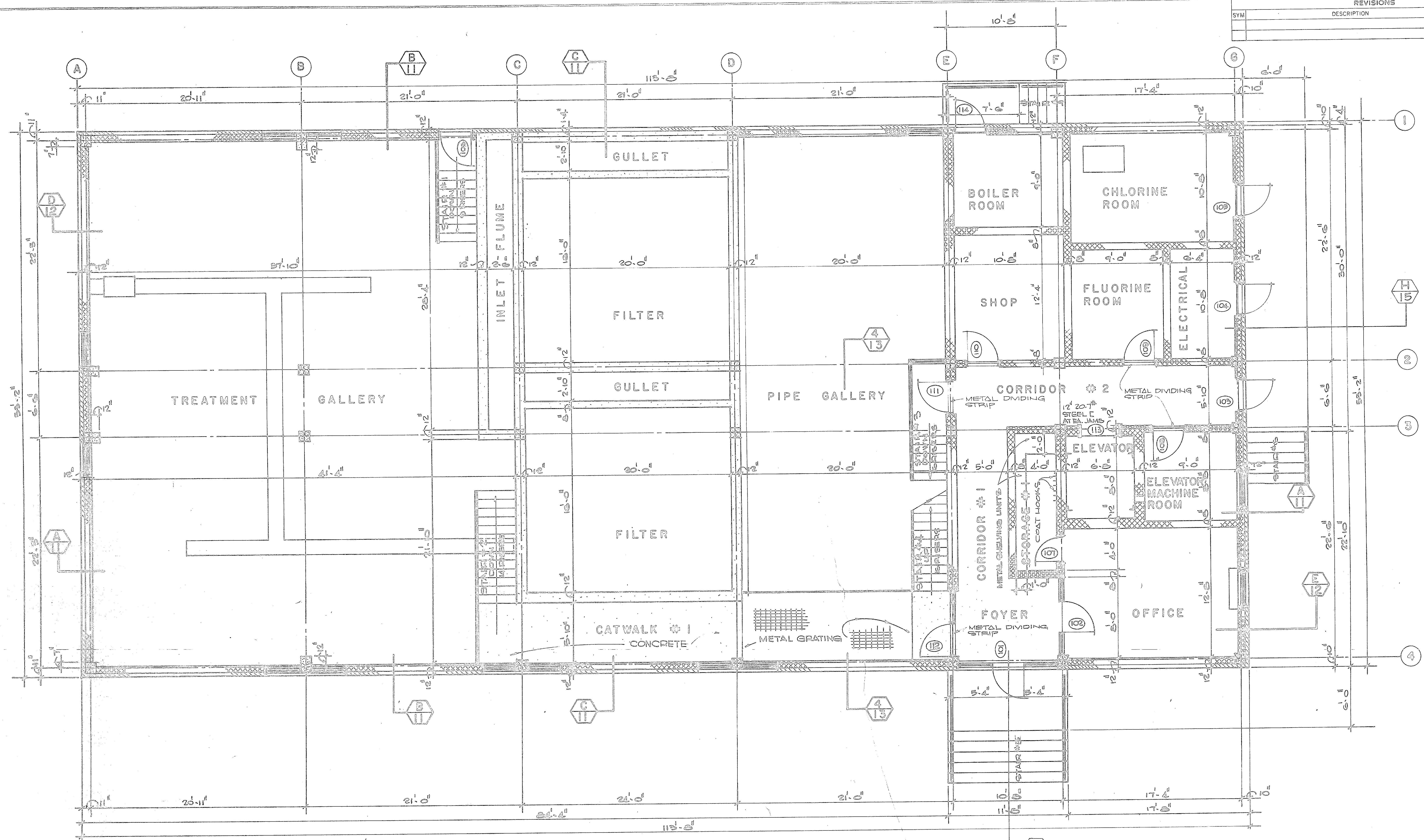
DES. J.R.B. DR. W.S. CHK. J.E.B.
SUPV. H.V.O. CH. ENGR. J.R.B.
SUPERVISOR DATE
FIRST NUMBER
REV. DATE
NO. OF SHEETS
DATE
DATE
DATE
DATE

APPROVED DATE
PUBLIC WORKS OFFICER DATE
SCALE: AS SHOWN SPEC. 05-70-0939 SHEET 43 OF 40

PROJECT NO. 1338931
CONSTR. CONTR. NO. N6270-70-8-0939
EFD DWG. NO. 84881



REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED

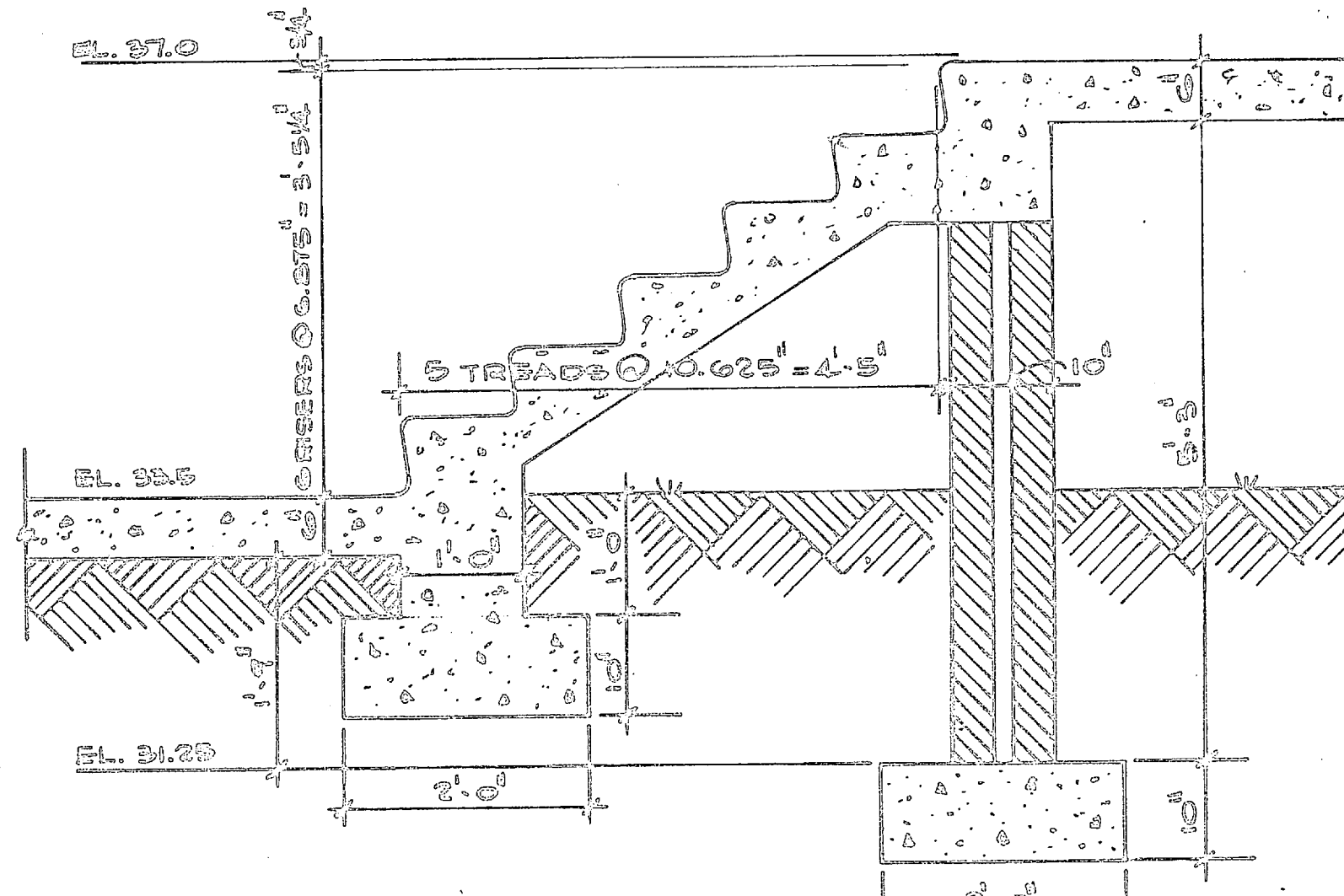


FIRST FLOOR PLAN

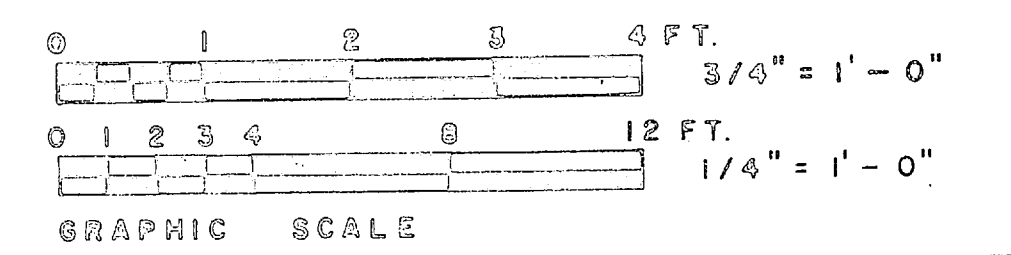
SCALE: 1/4" = 1'-0"

NOTE

FOR WALL & SLAB CONSTRUCTION JOINTS
SEE STRUCTURAL DETAILS.



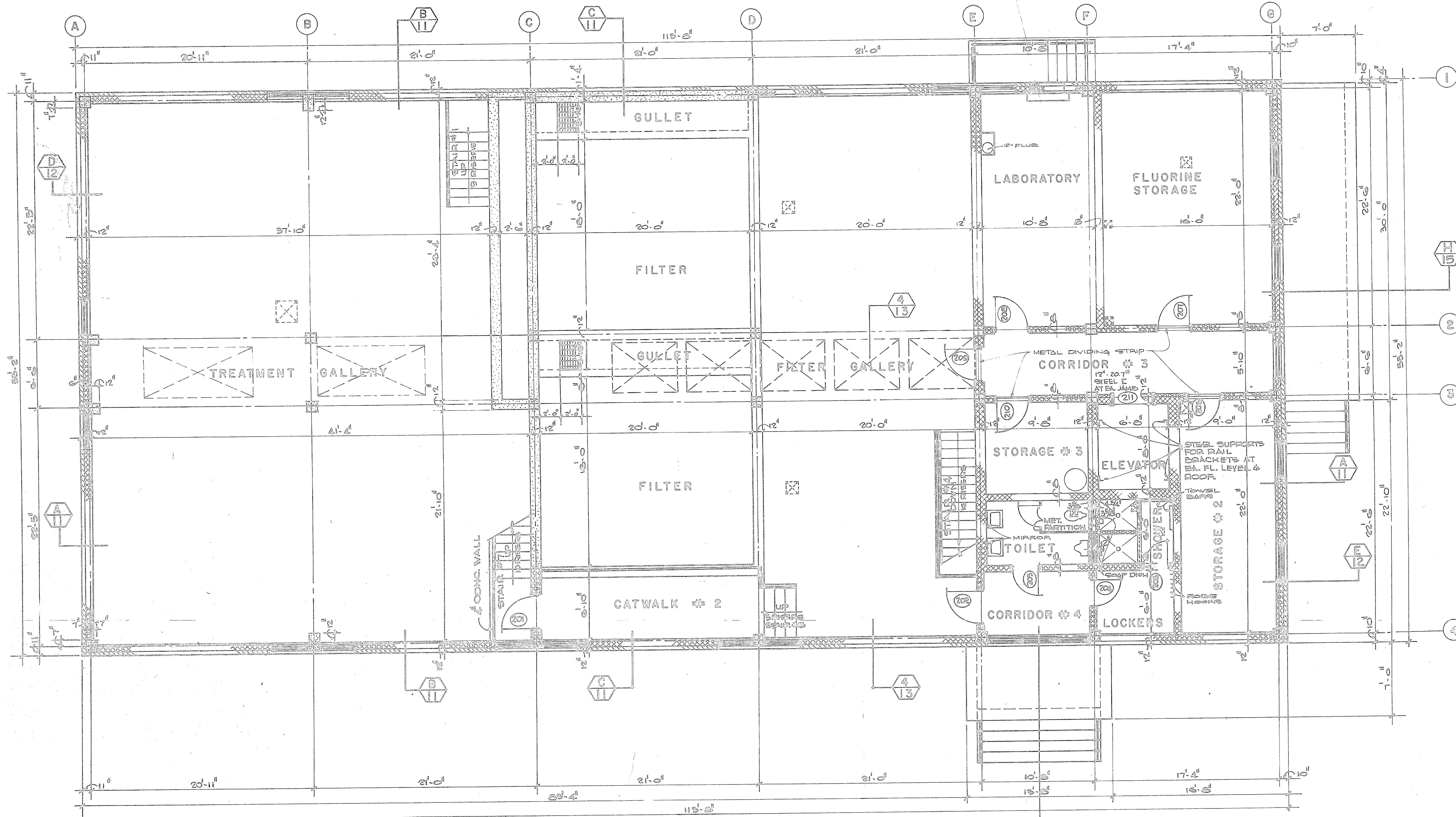
STAIR #5 5.36999
SCALE: 3/4" = 1'-0"



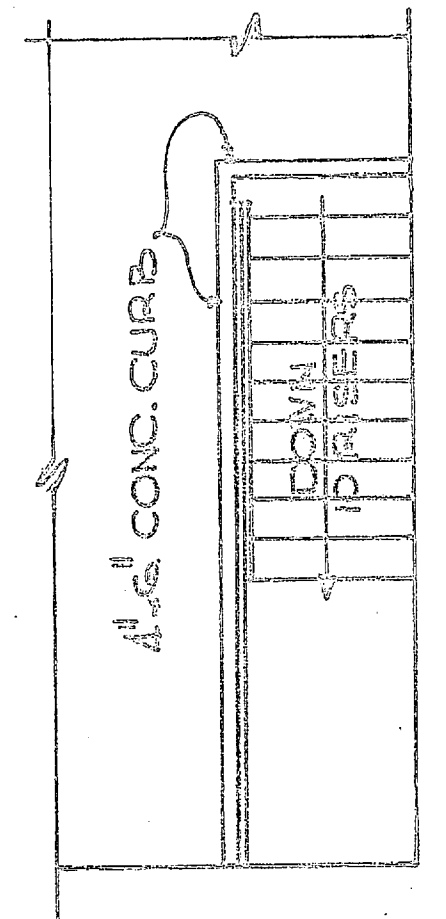
DENNY VOI GERRH & ASSOCIATES CONSULTING ENGINEERS WASHINGTON, D. C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NORFOLK, VA.	
WATER TREATMENT PLANTS, WELLS AND DISTRIBUTION SYSTEM			
CAMP LEJEUNE, NORTH CAROLINA			
TREATMENT PLANT FIRST FLOOR PLAN			
DESIGNED BY: J. J. G. CHECKED BY: J. G. G. DATE: 5/25/70	DRAWN BY: J. J. G. DATE: 5/25/70	NAVFAC DRAWING NO. 1338894	CONSTR. CONTR. NO. NS2470-70-8-0939
APPROVED BY: J. J. G. PUBLIC WORKS OFFICER	DATE: 5/25/70	SHEET NO. 80091	SHEET 6 OF 49
U.S. NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION		EFO (REV. 10-68) NO. 84894	



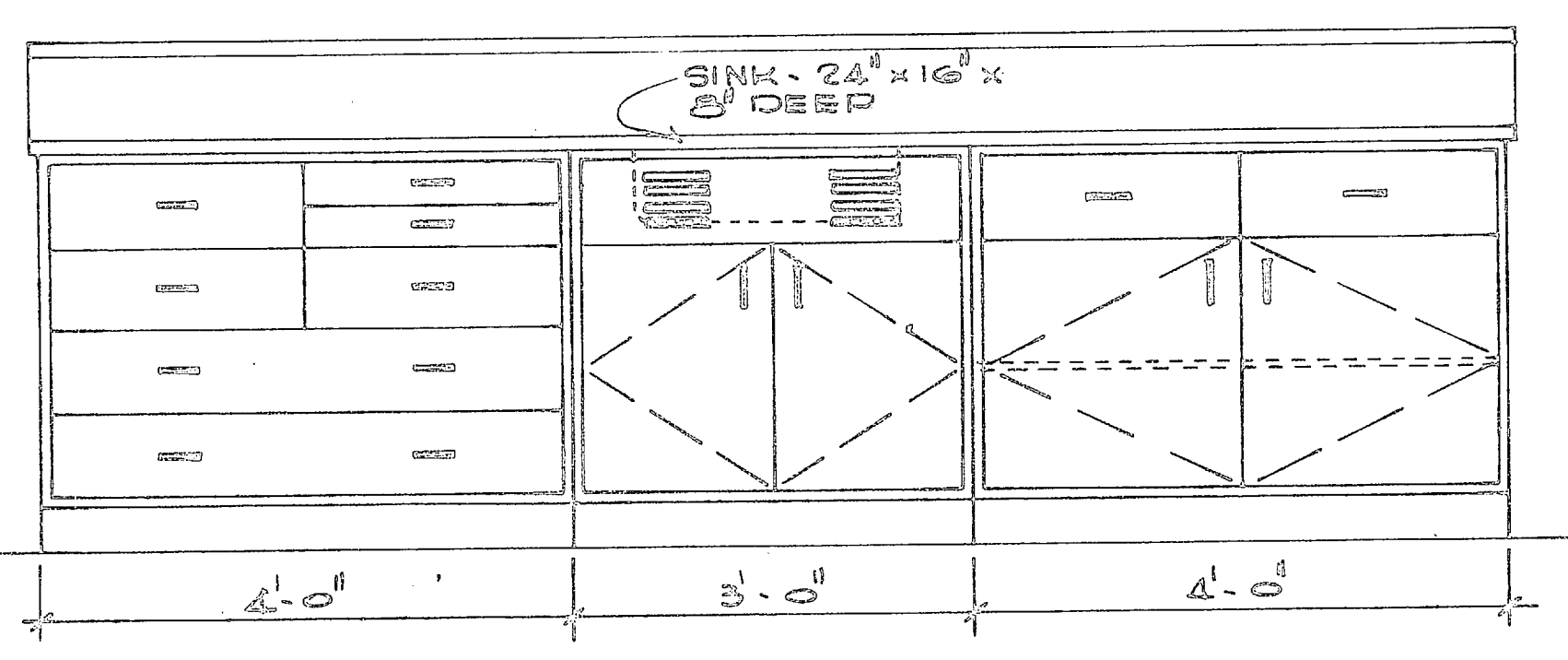
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



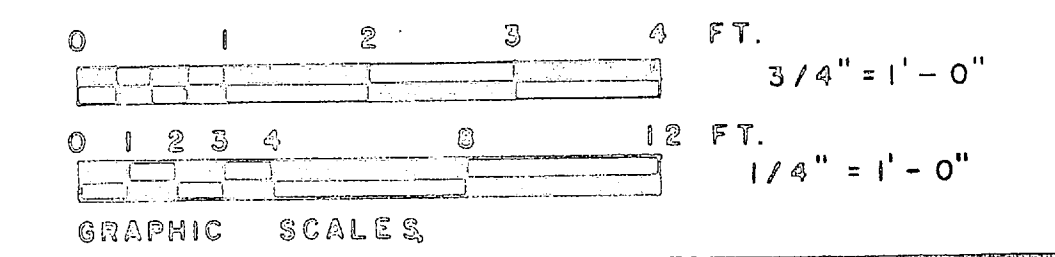
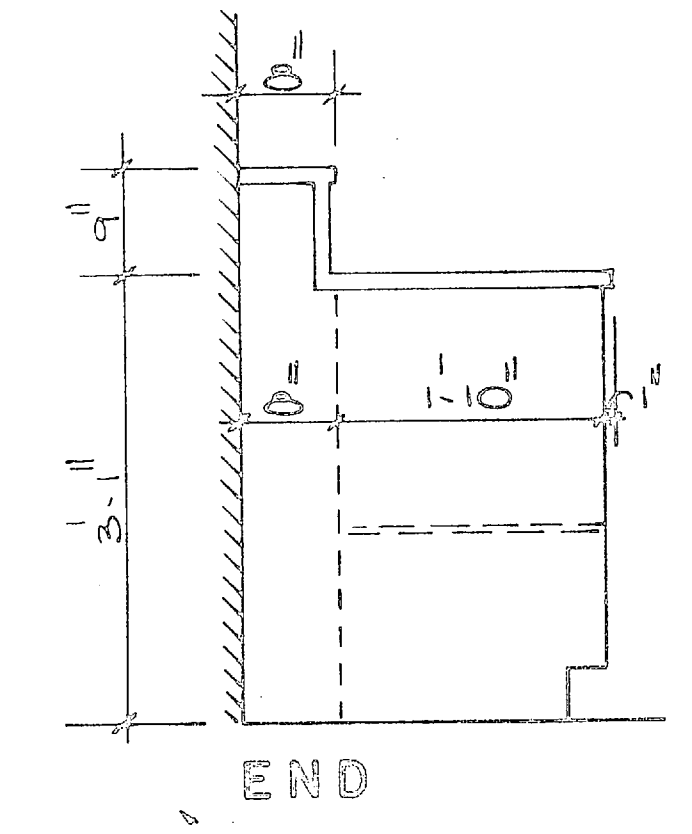
SECOND FLOOR PLAN
SCALE 1/4" = 1'-0"



PLAN-STAIR #7 AT EL. 55.0
SCALE 1/4" = 1'-0"

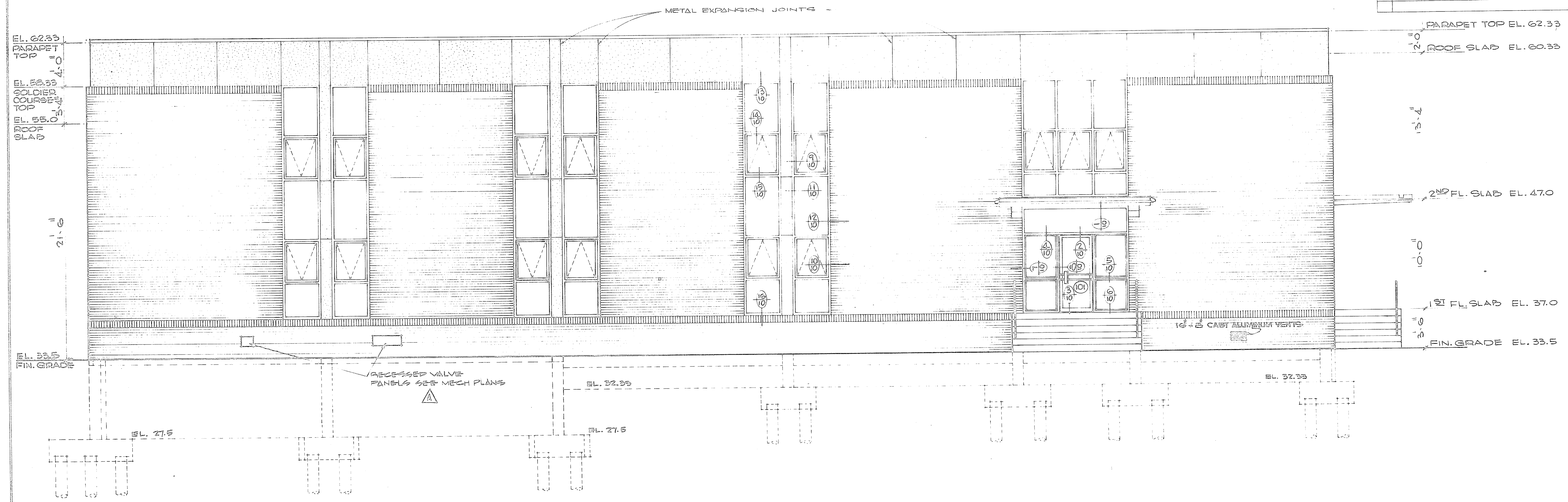


LABORATORY WORK CABINET
SCALE 3/4" = 1'-0"

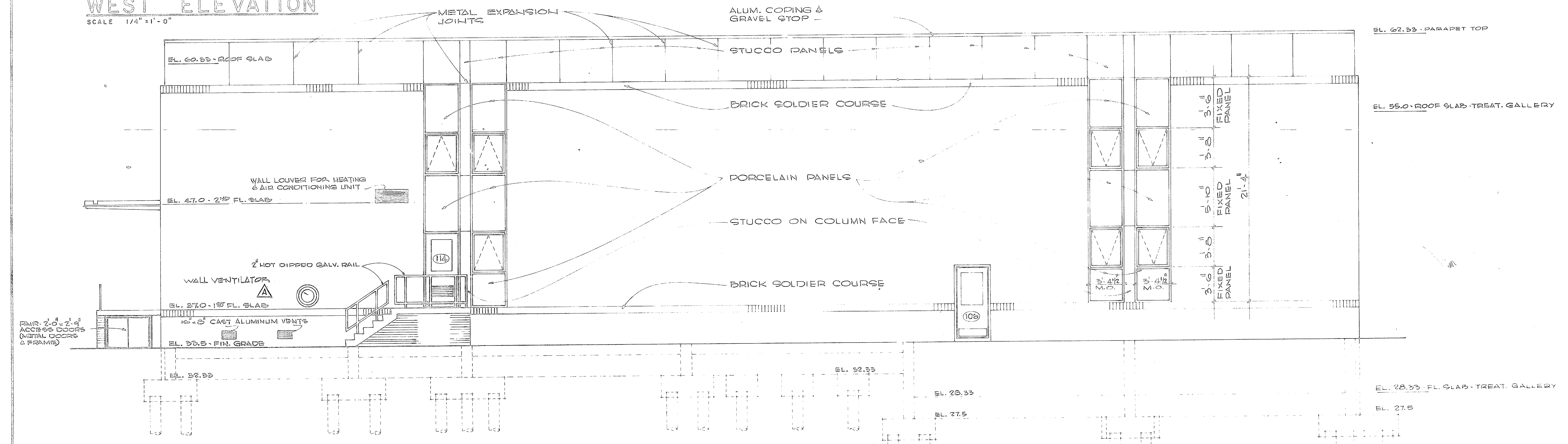


HENRY WOOD GOSSEL & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, N. C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION NORFOLK, VA.	
DES. J. R. G.	CHK. J. J. V.	WATER TREATMENT PLANTS, WELLS AND DISTRIBUTION SYSTEM	
SUPV. J. R. G.	COL. ENGR. J. R. G.	CAMP LEJEUNE, NORTH CAROLINA	
SUBMITTED BY: <i>J. R. G.</i>		TREATMENT PLANT	
DATE: 11/1/57	DATE: 11/1/57	2ND FL. PLAN & CAB. ELEVATION	
APPROVED: <i>J. R. G.</i>	DATE: 11/1/57	CODE BOOK NO. 80091	NAVFAC DRAWING NO. 1338895
PUBLIC WORKS OFFICER: <i>J. R. G.</i>		CONTRACT NO. NS2470-70-B-0939	SHEET 7 OF 49
SCALE: As Shown		SPC: 05-70-0939	84895

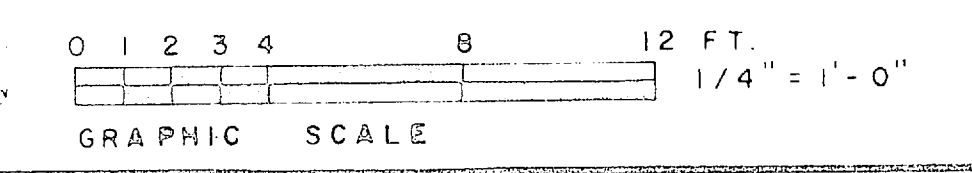
REVISIONS			
SYM	DESCRIPTION	DATE	APPROV.
A	ADDITION OF MECH VALVE PANELS & VENTILATOR PANELS	1-1-70	



WEST ELEVATION
SCALE 1/4" = 1'-0"

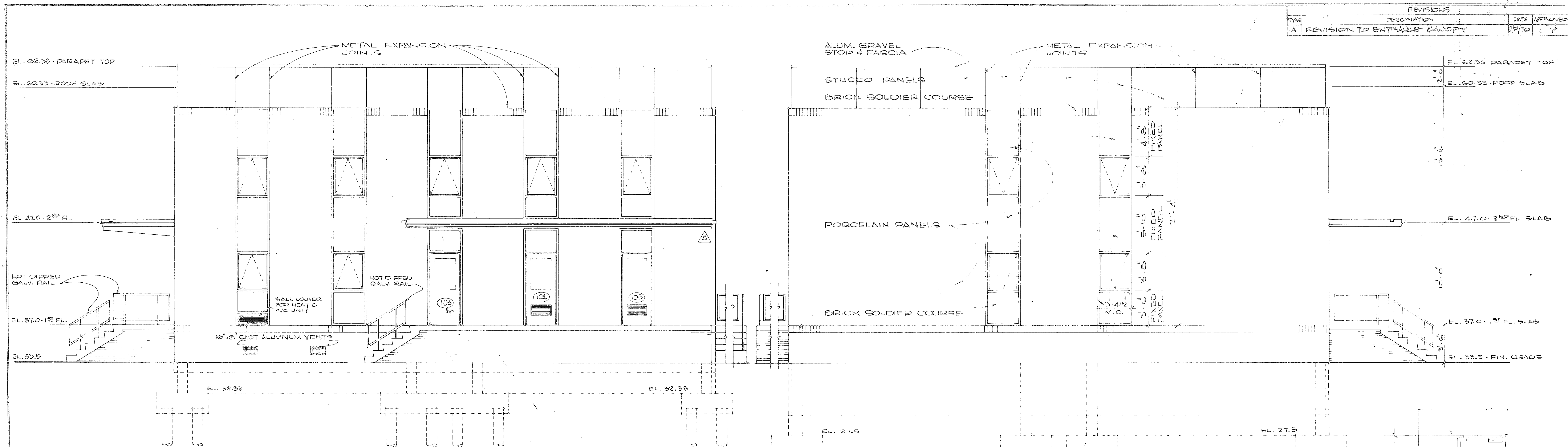


EAST ELEVATION
SCALE 1/4" = 1'-0"



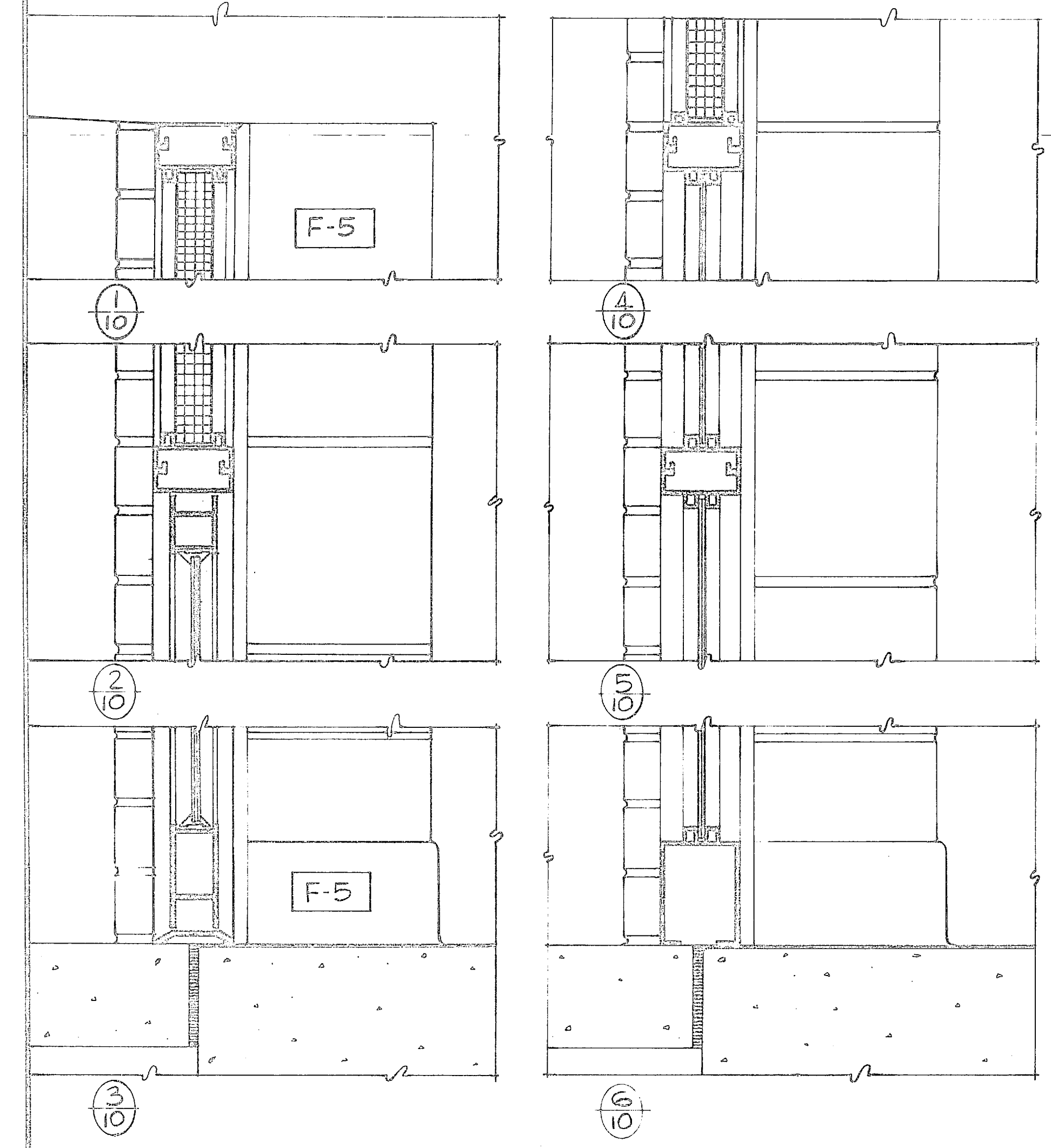
HENRY VON DESEN & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, N. C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION	
DES. BY J. R. D.	DR. BY J. W. L.	CHK. BY J. R. D.	DATE 5-25-70
SUBMITTED BY J. R. D.		DATE 5-25-70	
APP. BY J. R. D.	DATE 5-25-70	CONTRACT NO. 80091	NAVAL DRAWING NO. 1338897
APPROVED J. R. D.		CONTRACT NO. NE2470-70-B-0930	SCALE AS SHOWN
PUBLIC WORKS DIVISION		DATE 05-70	SHEET 9 OF 49

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
A	REVISION TO ENTRANCE CANOPY	8/1/70	

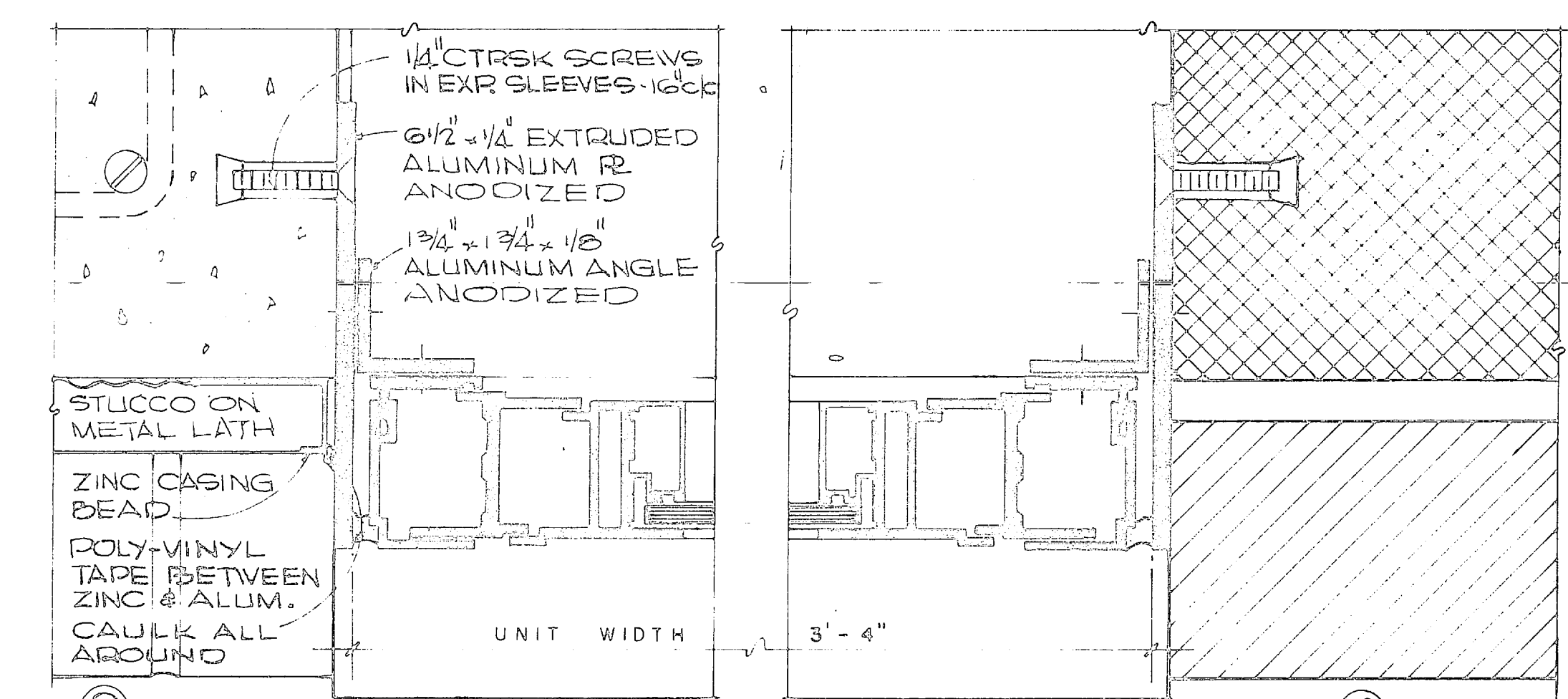
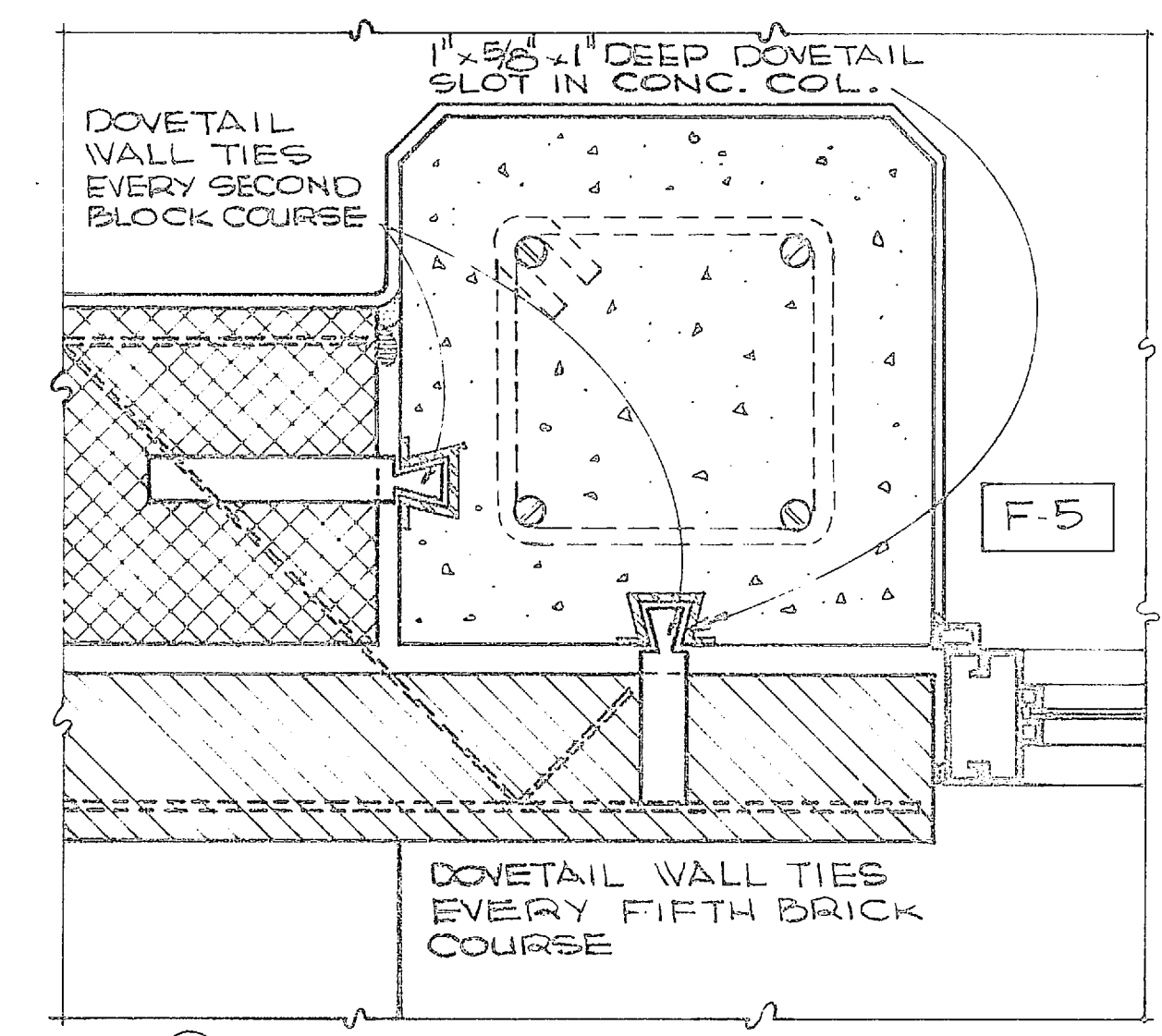


SOUTH ELEVATION
SCALE 1/4" = 1'-0"

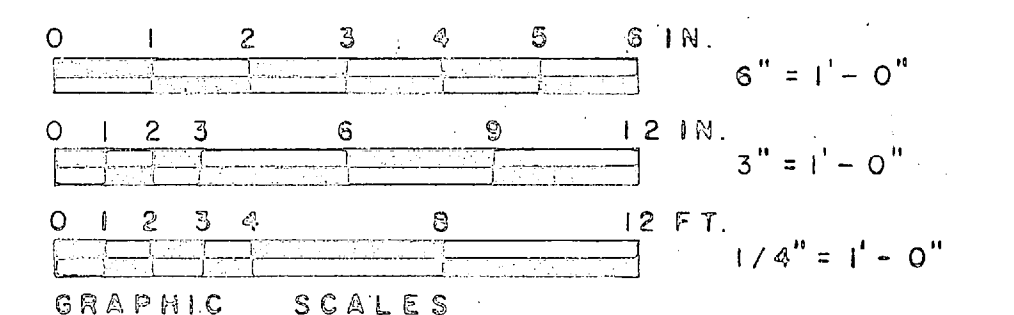
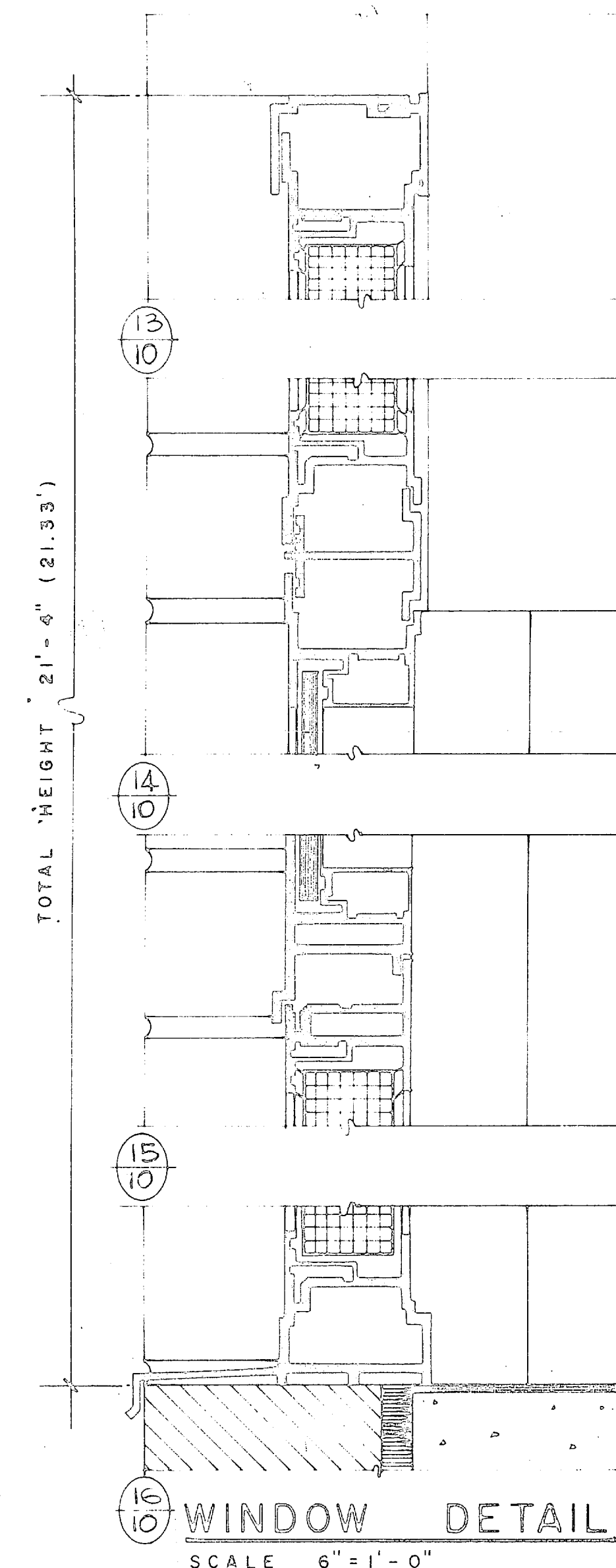
NORTH ELEVATION
SCALE 1/4" = 1'-0"



ENTRANCE DETAIL
SCALE 3" = 1'-0"

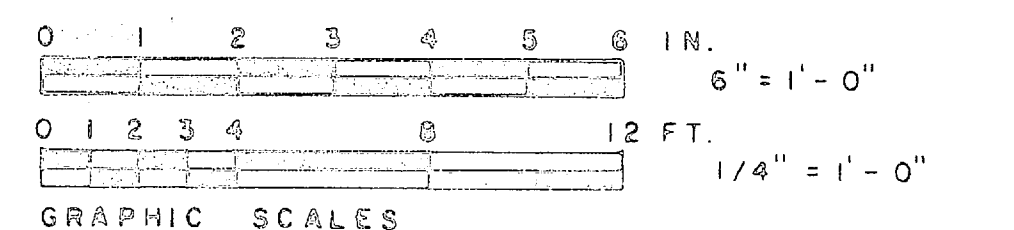
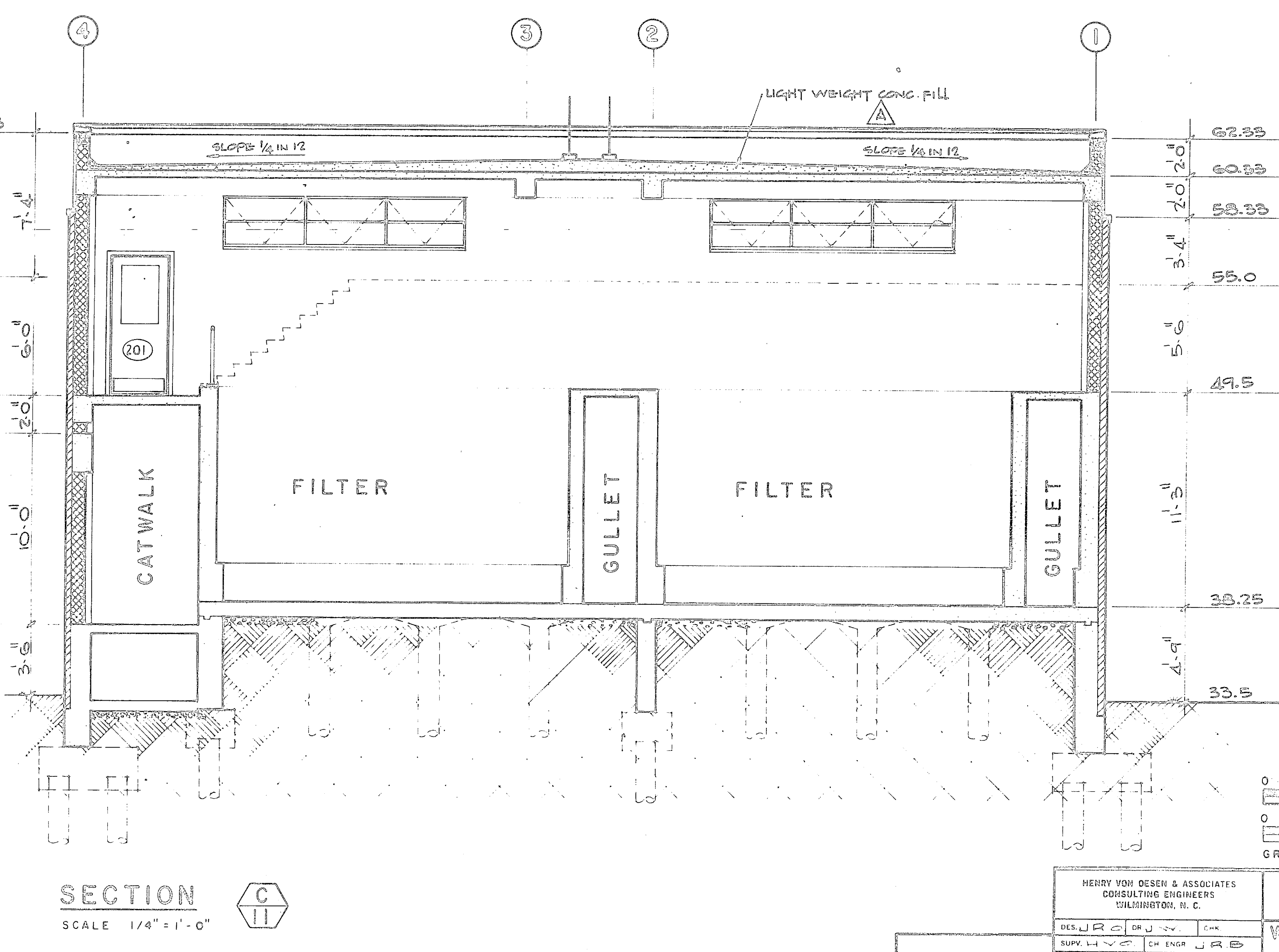
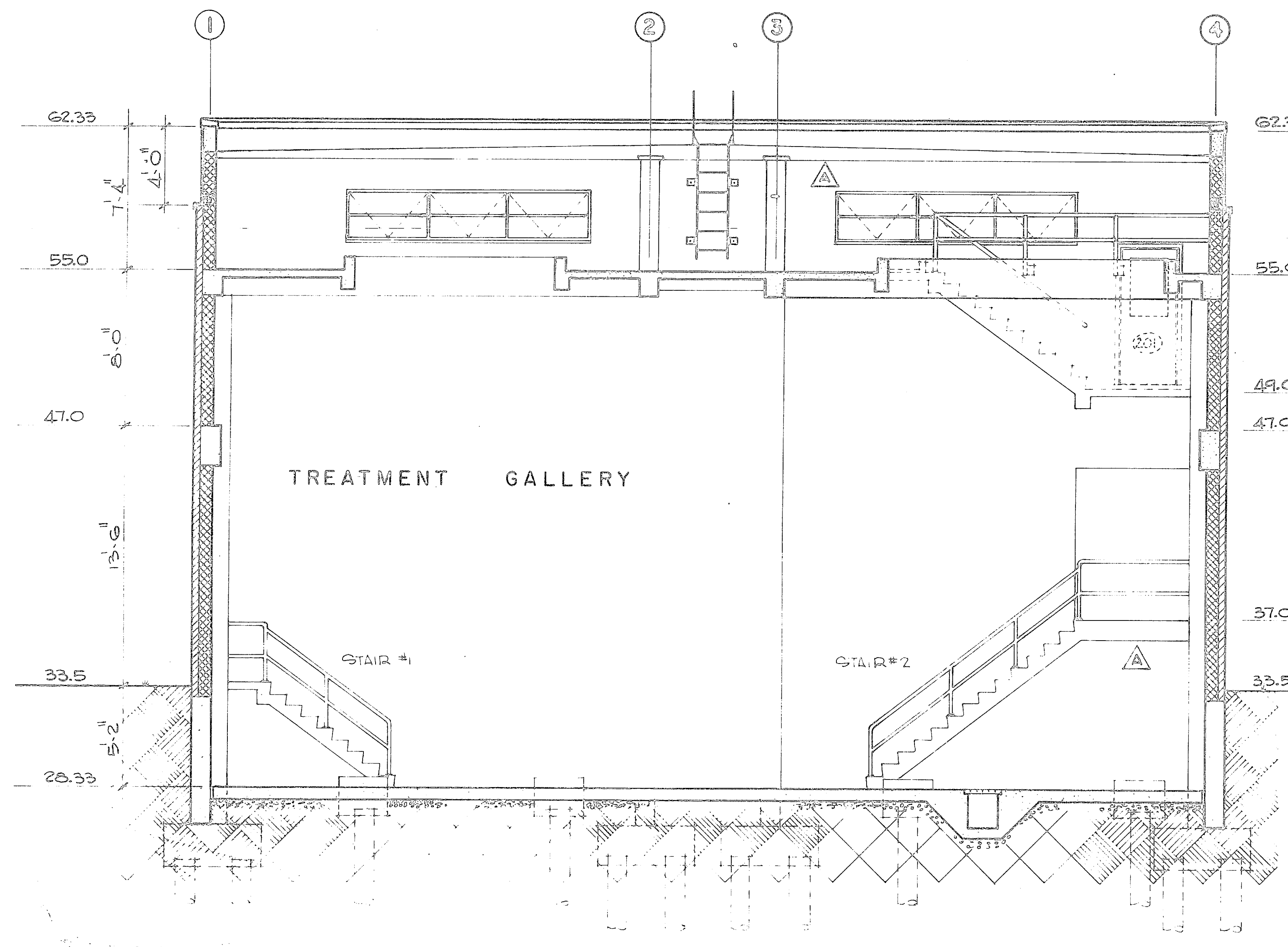
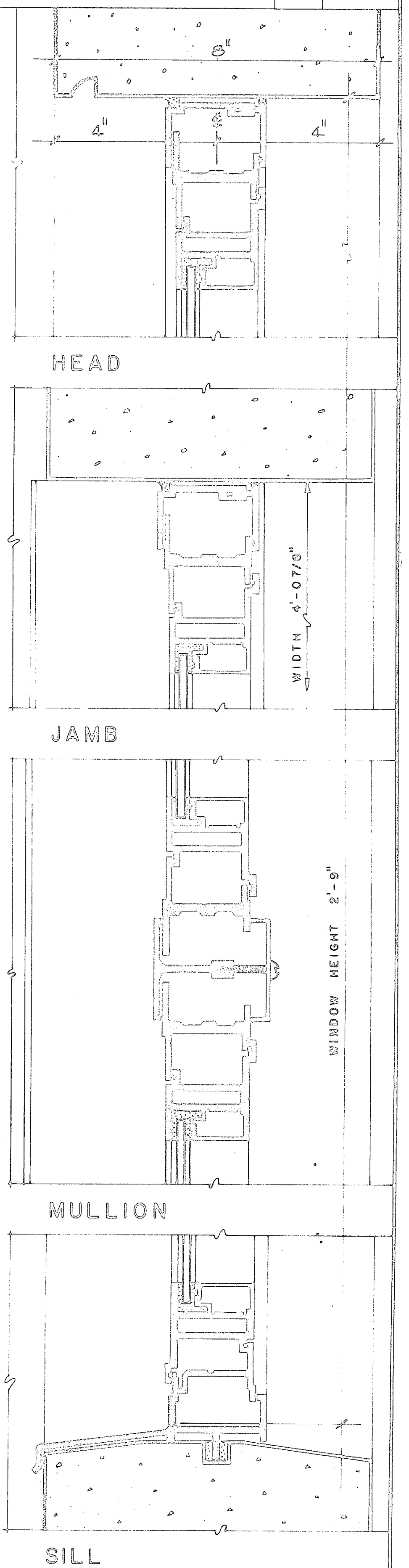
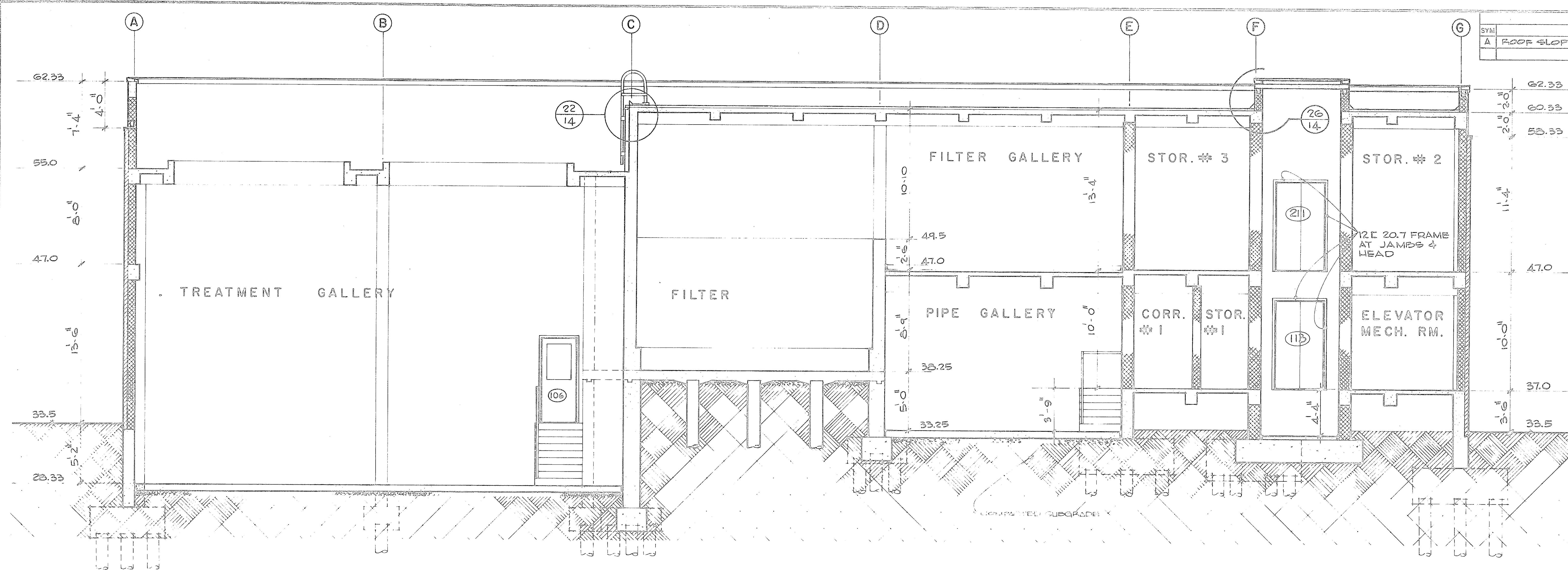


WINDOW DETAIL
SCALE 6" = 1'-0"

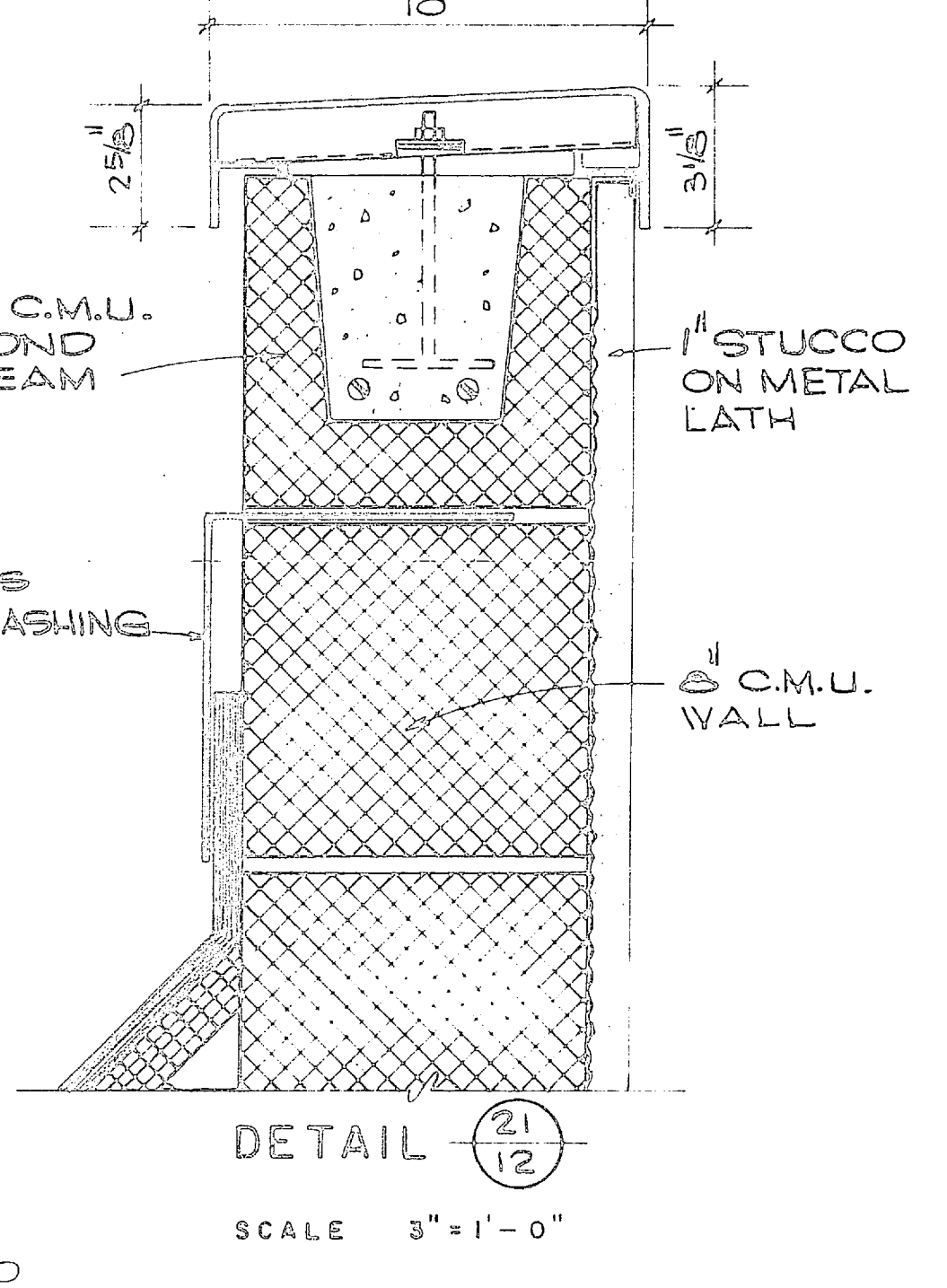
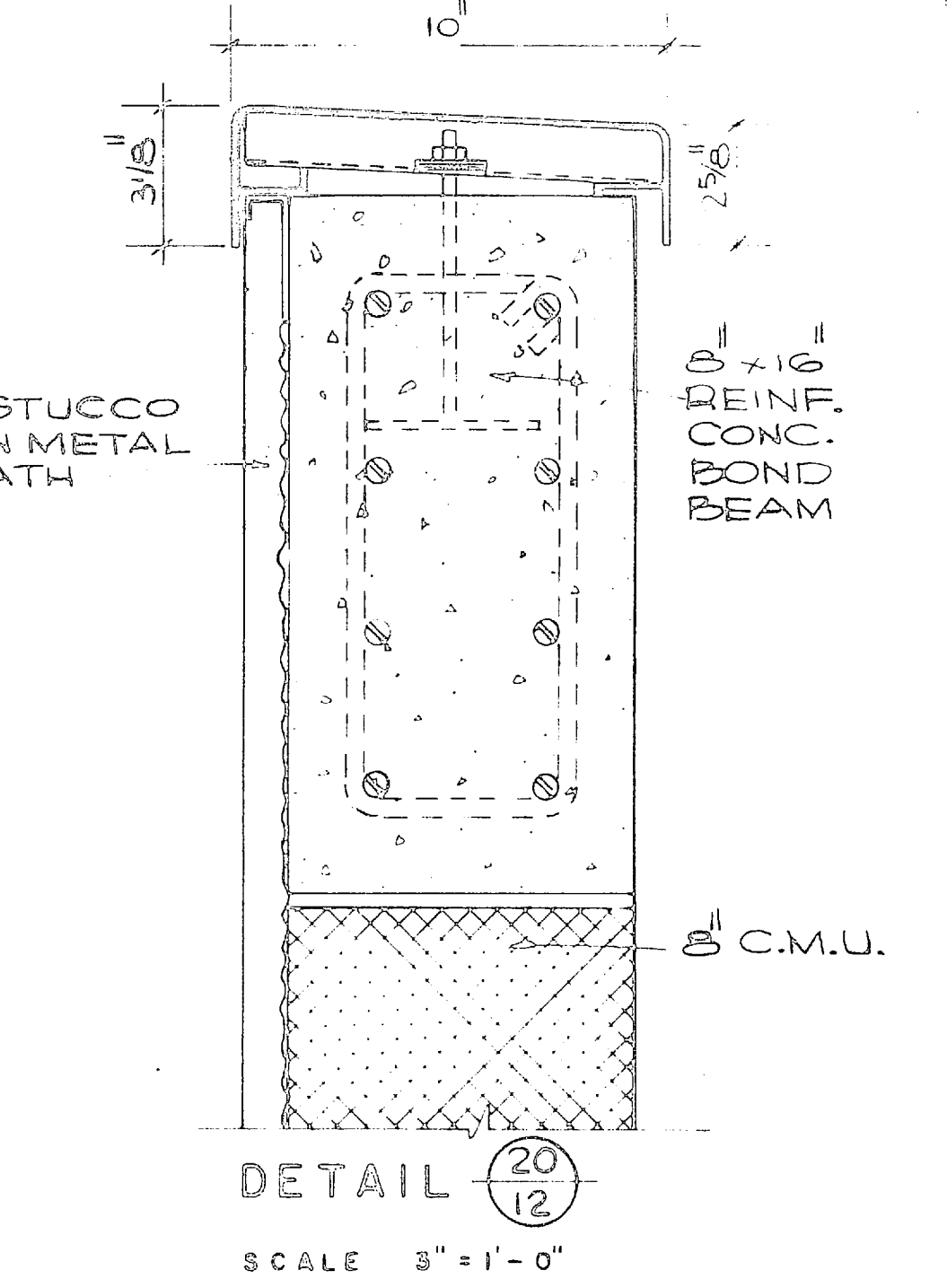
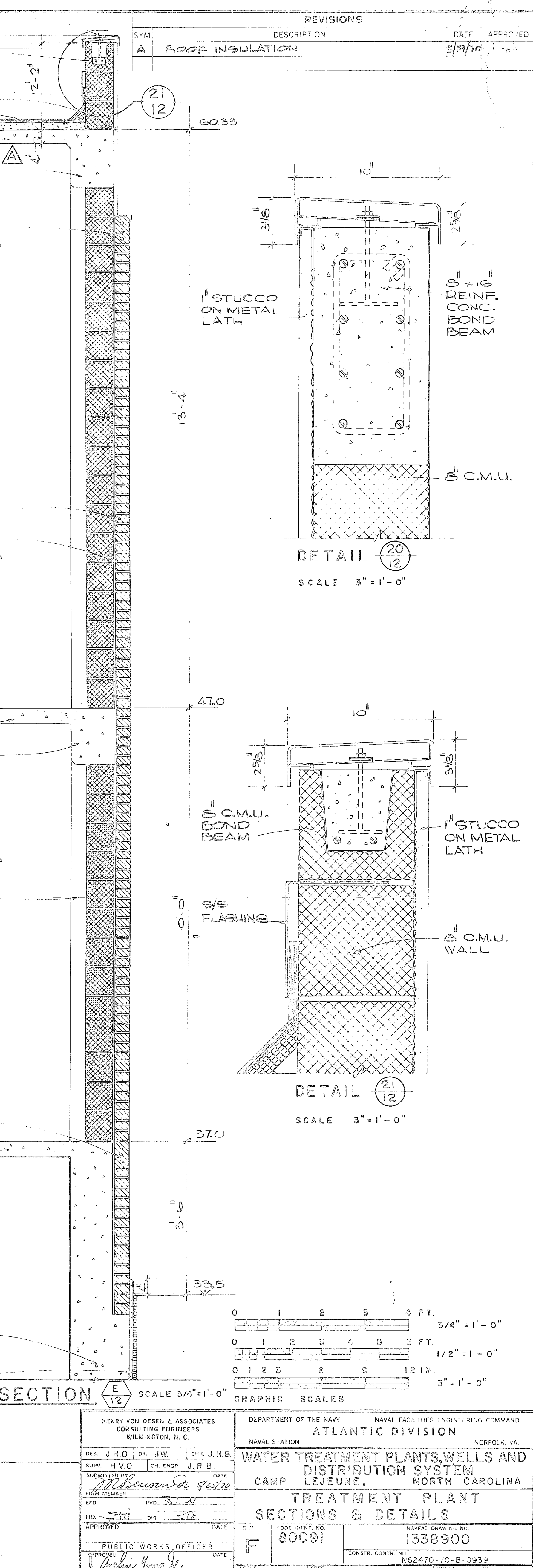
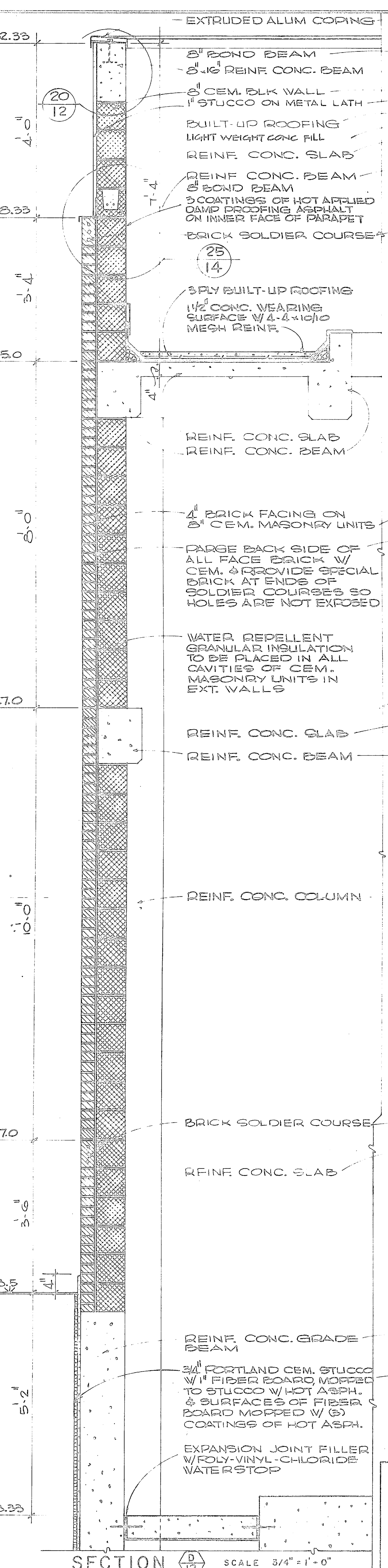
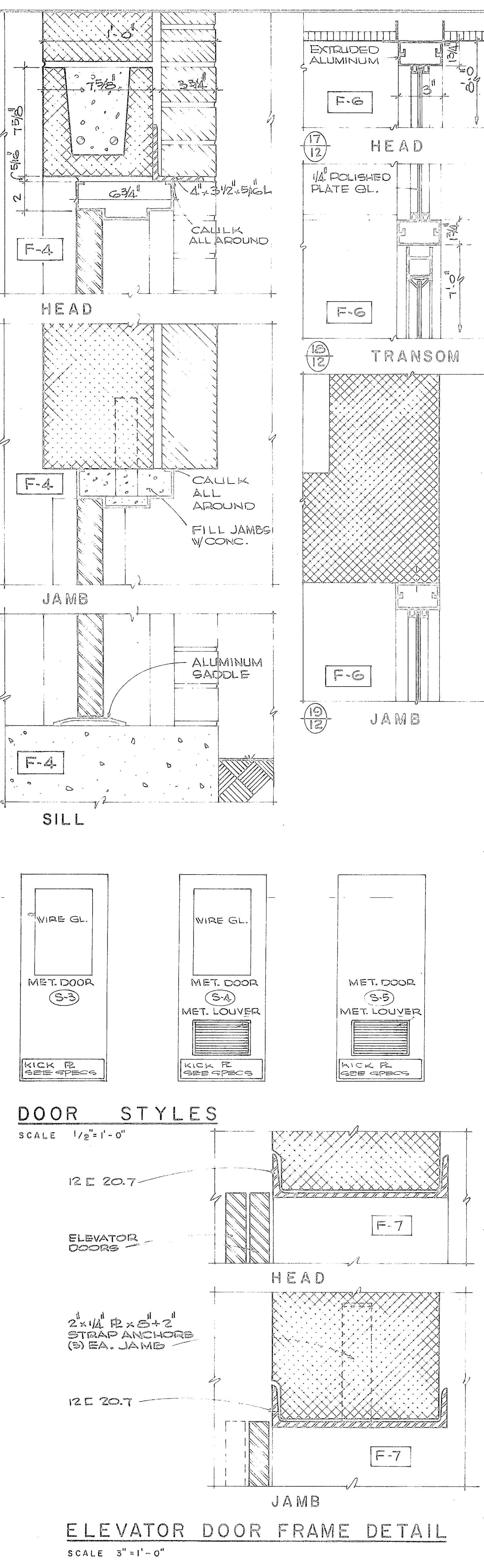
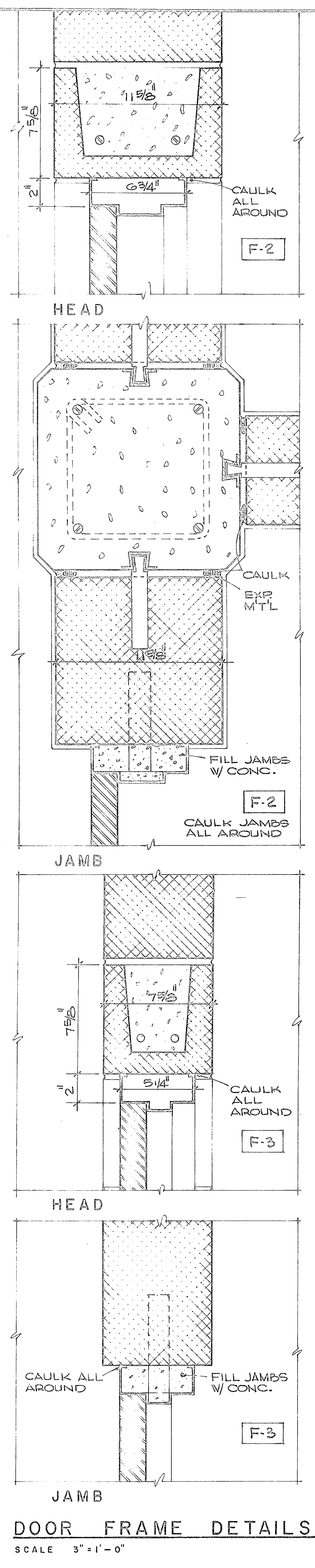
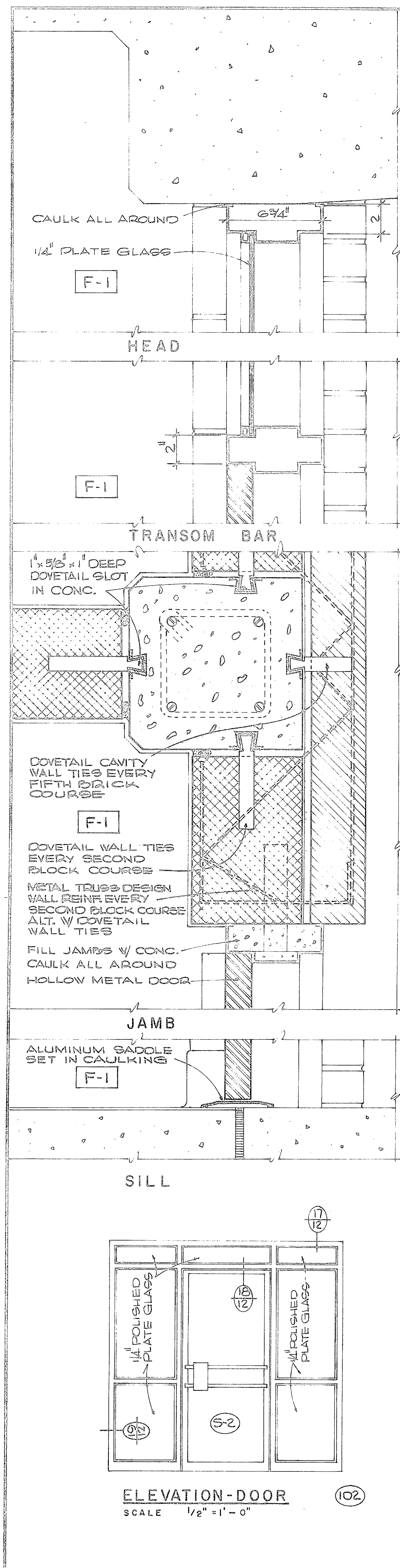


HENRY VOIGT DESER & ASSOCIATES CONSULTING ENGINEERS VIRGINIA BEACH, VA.			DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NORFOLK, VA.		
DES. J.R.D.	DR. J.W.J.	CHK.	NAVAL STATION WATER TREATMENT PLANTS, WELLS AND DISTRIBUTION SYSTEM		
SUPV. J.R.D.	EN. F.W.P.	J.R.D.	CAMP LEJUNE, NORTH CAROLINA		
SUBMITTED BY J. R. D.			DATE 5/27/70		
DRAWN BY S. L. W.			PROJECT NO. 1338898		
APPROVED J. R. D.			DATE 8/1/70		
PUBLIC WORKS OFFICE			NAVY DISTRICT NO. 10		
DATE			NAVY DISTRICT NO. 10		

REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED
A	ROOF SLOPE & INSULATION - STAIRS #2	8/2/70	J. J. J.



HENRY VON OESSEN & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, N. C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION	
DESIGNED BY: J. J. J.		NAVAL STATION: NORFOLK, VA.	
SUPERVISOR: J. J. J.		WATER TREATMENT PLANTS, WELLS AND DISTRIBUTION SYSTEM	
DRAWN BY: J. J. J.		CAMP LEJEUNE, NORTH CAROLINA	
CHECKED BY: J. J. J.		TREATMENT PLANT DETAILS & SECTIONS	
APPROVED: J. J. J.		NAVFAC DRAWING NO. 1336899	
PUBLIC WORKS OFFICER: J. J. J.		F 60091	
DATE: 8/2/70		CONSTR. CONTR. NO. NS2470-70-8-0939	
SCALE: AS SHOWN		SHEET II OF 49	
		84899	

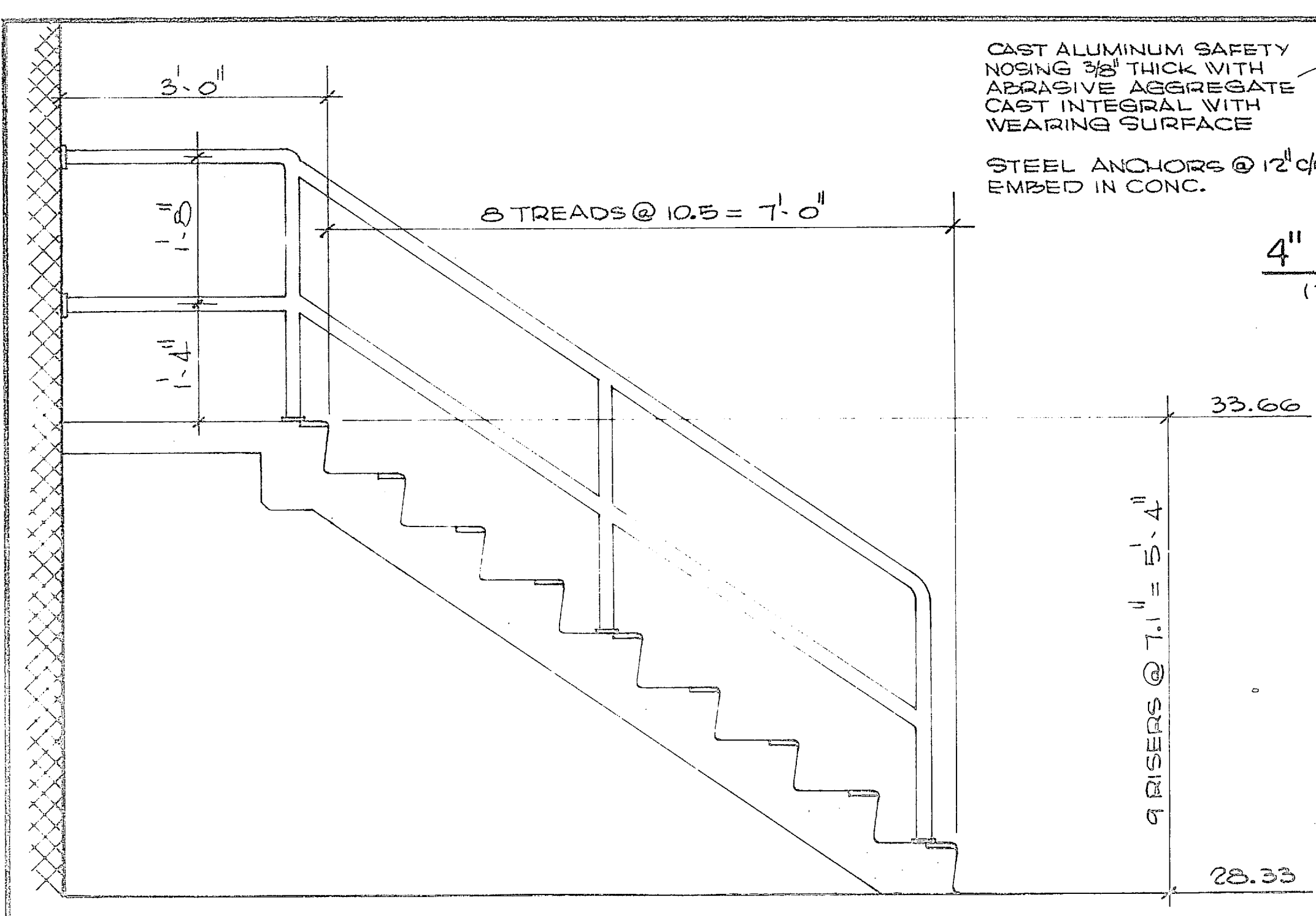


SYMBOL	DESCRIPTION	DATE	APPROVED
A	ROOF INSULATION	2/19/70	

HENRY VON DESEN & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, N. C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION NORFOLK, VA.	
DES. J.R.D.	DR. J.W.	CHK. J.R.B.	
SUPV. H.V.O.	CH. ENGR. J.R.B.	DATE	
SUBMITTED BY: <i>Henry Von Desen</i>		DATE: <i>9/25/70</i>	
PROJECT: <i>Water Treatment Plant</i>		DRAWING NO.: <i>1338900</i>	
APPROVED: <i>Henry Von Desen</i>		DATE: <i>10/1/70</i>	
PUBLIC WORKS OFFICER		NAVAL CHARTING NO. <i>1338900</i>	
PROJECT: <i>Water Treatment Plant</i>		CONTRACT NO.: <i>NS2470-70-B-0939</i>	
SCALE: <i>AS SHOWN</i>		SHEET 12 OF 49	
		EFO (Rev. 11-69)	



REVISIONS		DATE	APPROVED
SYM	DESCRIPTION		
A	GENERAL REVISIONS	3/9/70	J.H.J.

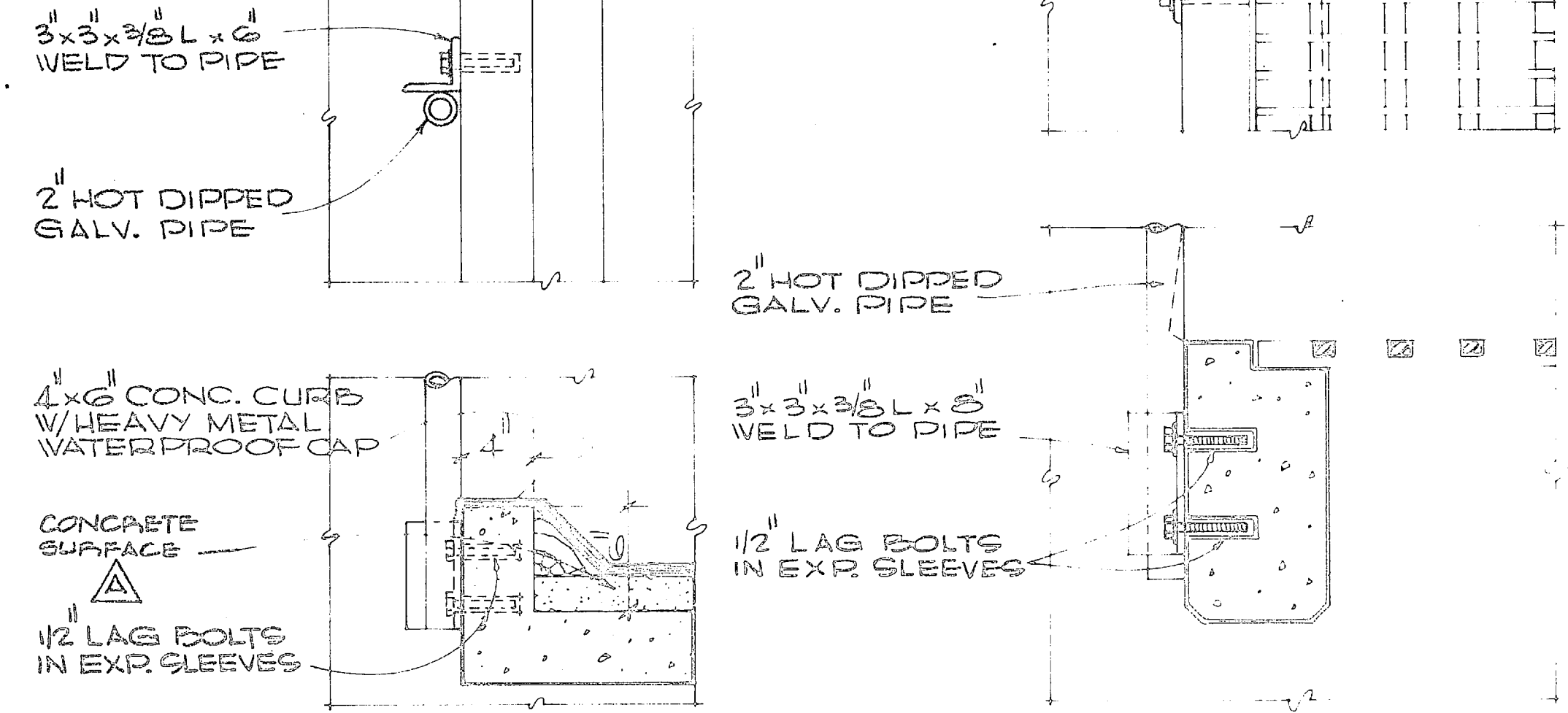


ELEVATION STAIR #1
SCALE 3/4" = 1'-0"

CAST ALUMINUM SAFETY NOSING 3/8" THICK WITH ABRASIVE AGGREGATE CAST INTEGRAL WITH WEARING SURFACE
STEEL ANCHORS @ 12" OC. EMBED IN CONC.

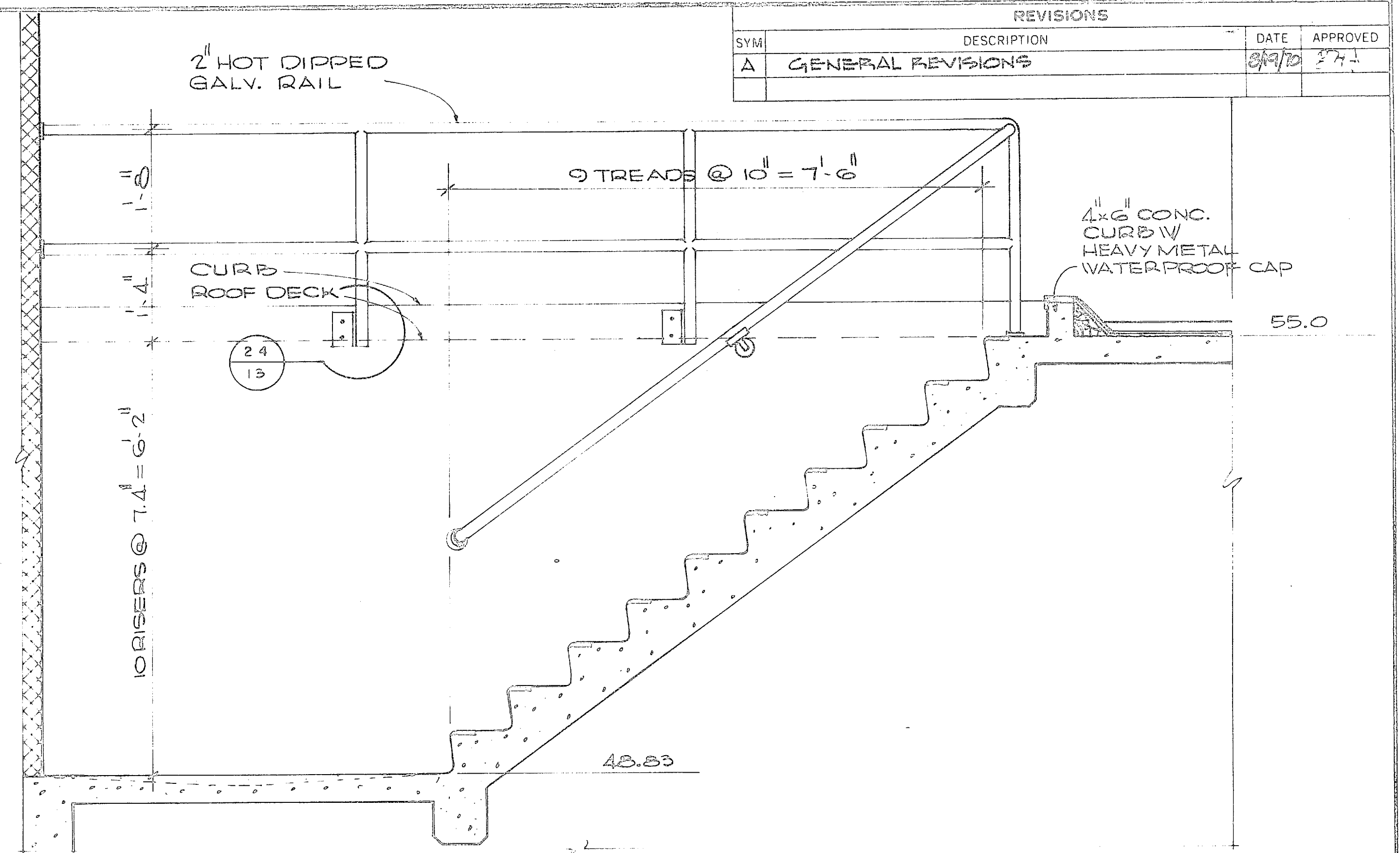
SAFETY NOSINGS 4" WIDE & FULL LENGTH OF EA. TREAD, LANDING, & FLOOR EDGE
REINF. CONC. STEP, LANDING, OR FLOOR

4" SAFETY TREAD
(TYPICAL ALL STEPS)

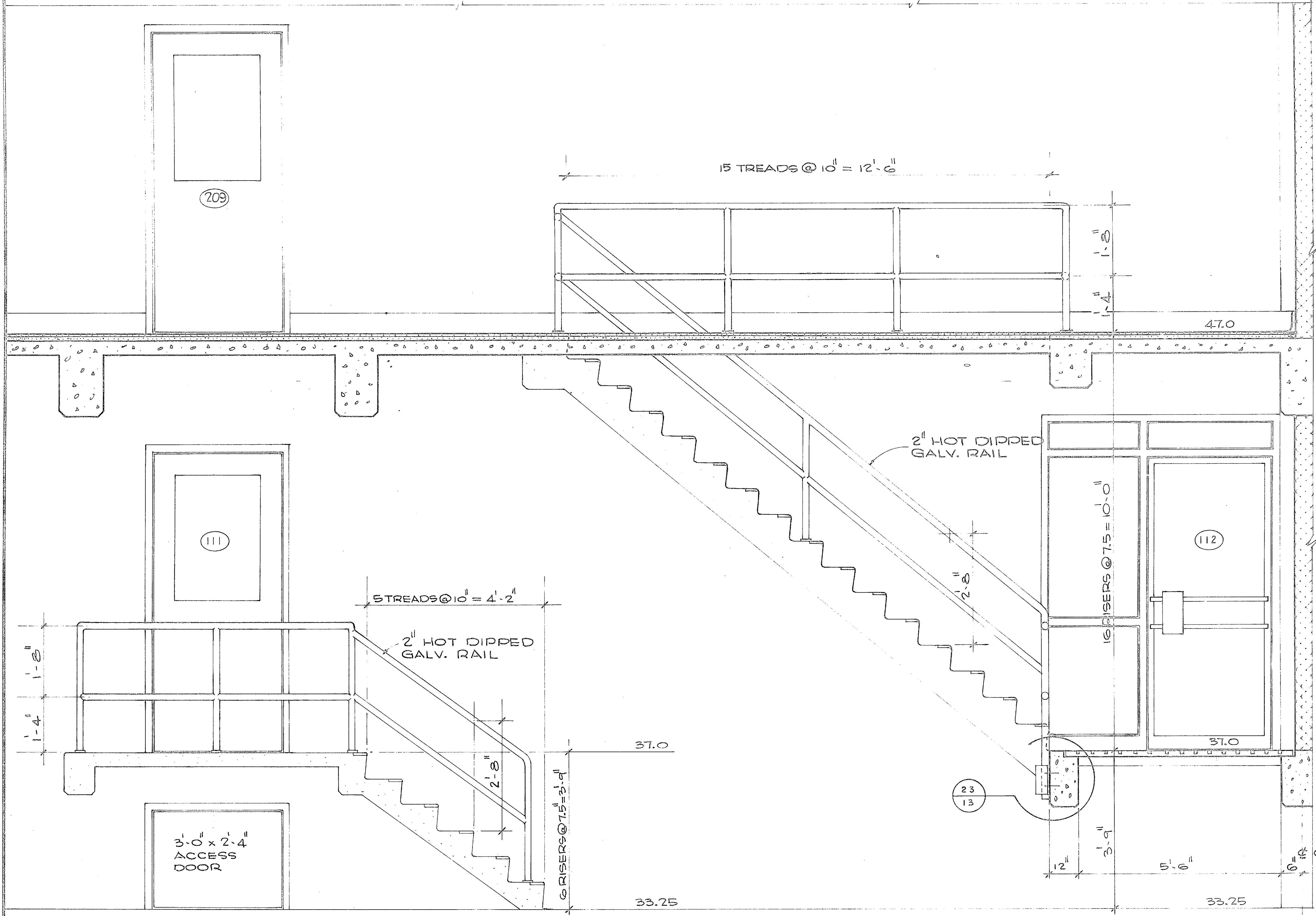


DETAIL 24
SCALE 1 1/2" = 1'-0"

DETAIL 23
SCALE 1 1/2" = 1'-0"



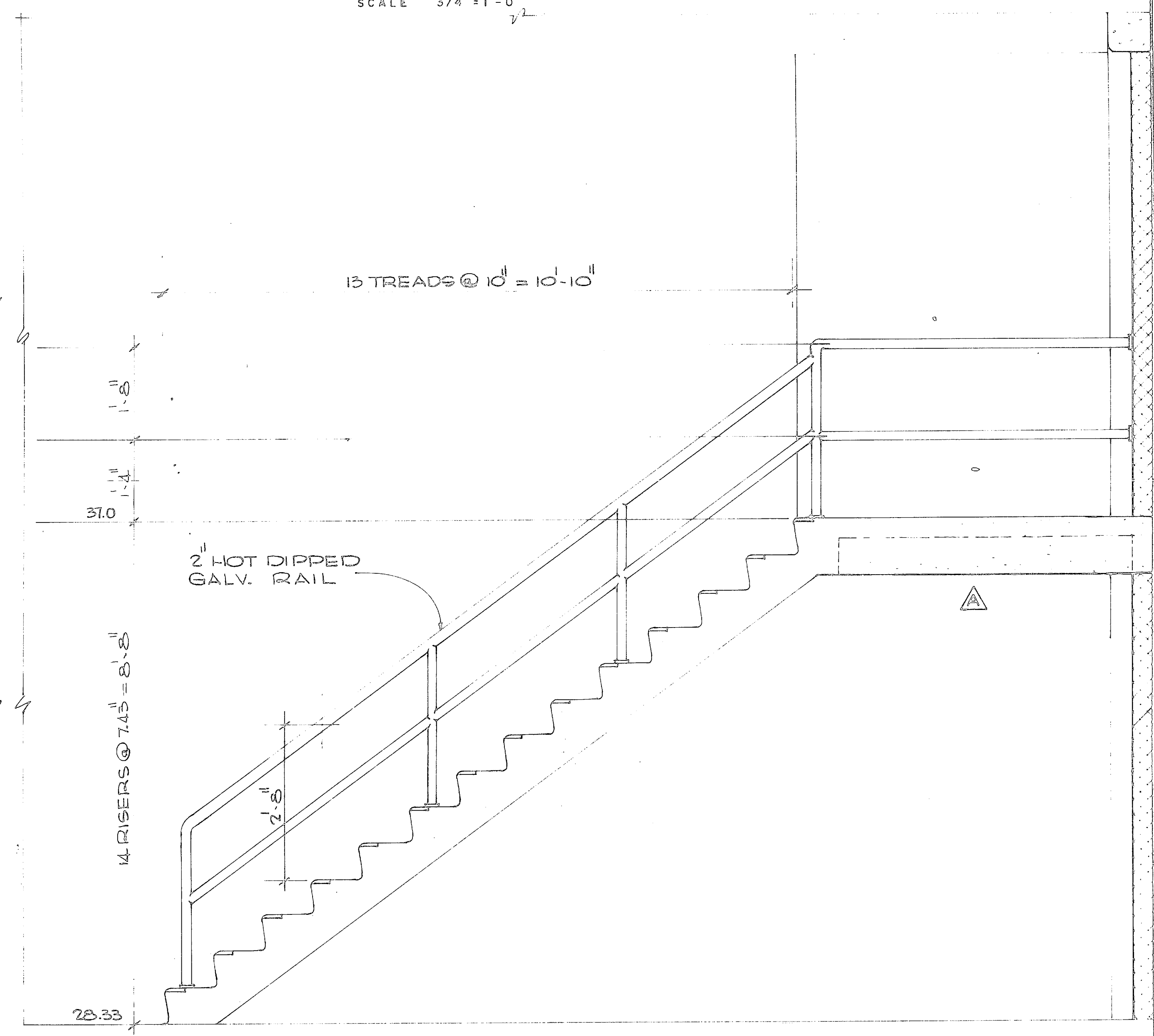
SECTION - STAIR # 7
SCALE 3/4" = 1'-0"



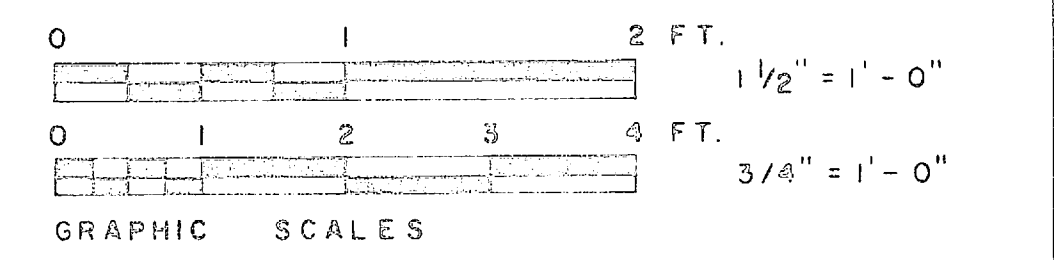
ELEVATION - STAIR # 3
SCALE 3/4" = 1'-0"

ELEVATION - STAIR # 4
SCALE 3/4" = 1'-0"

SECTION 4/13
SCALE 3/4" = 1'-0"



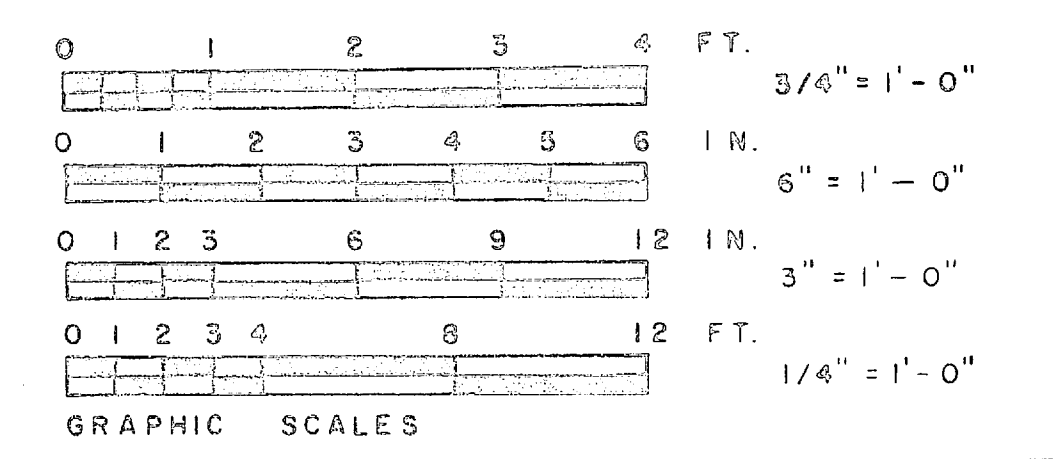
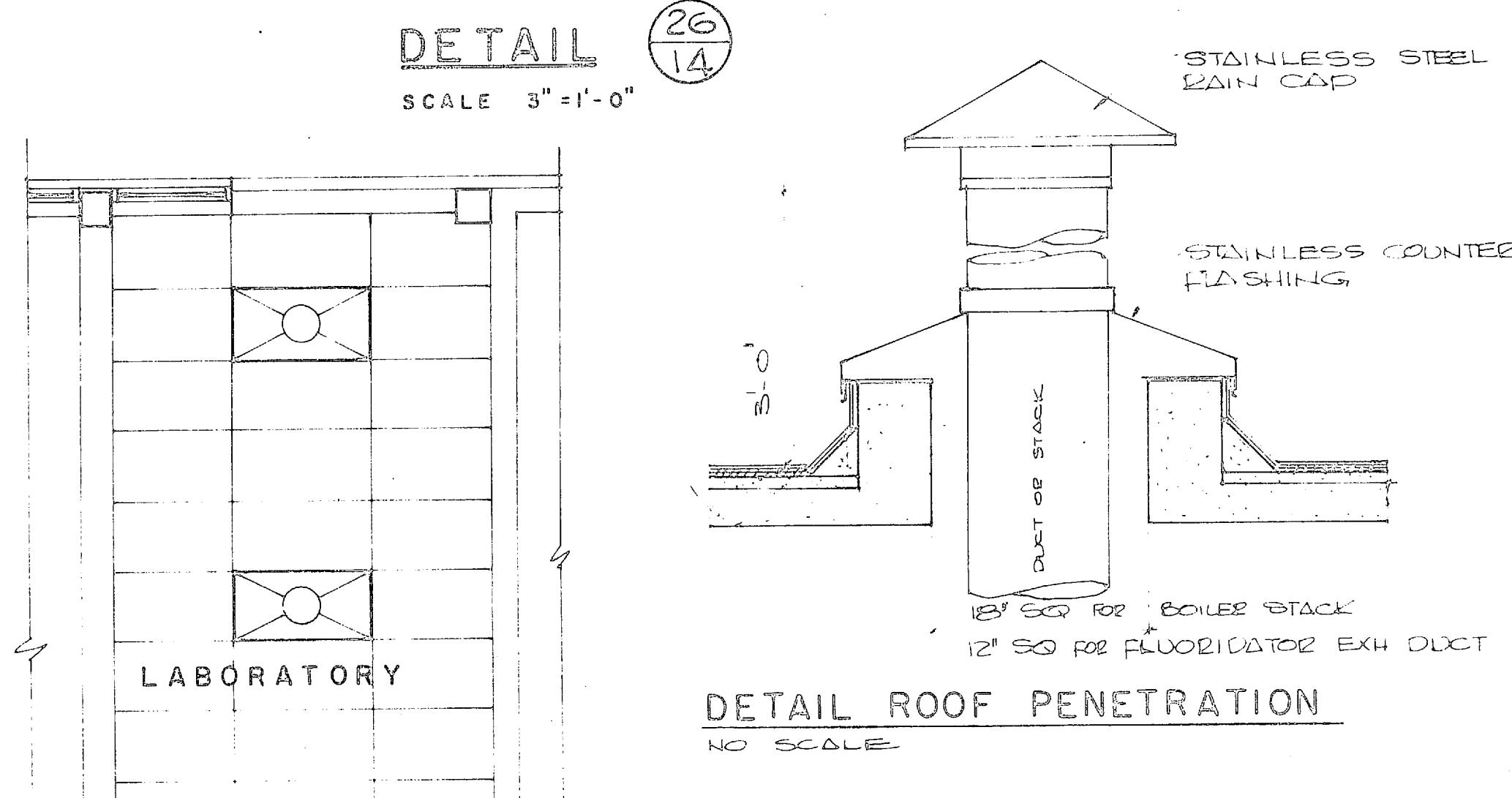
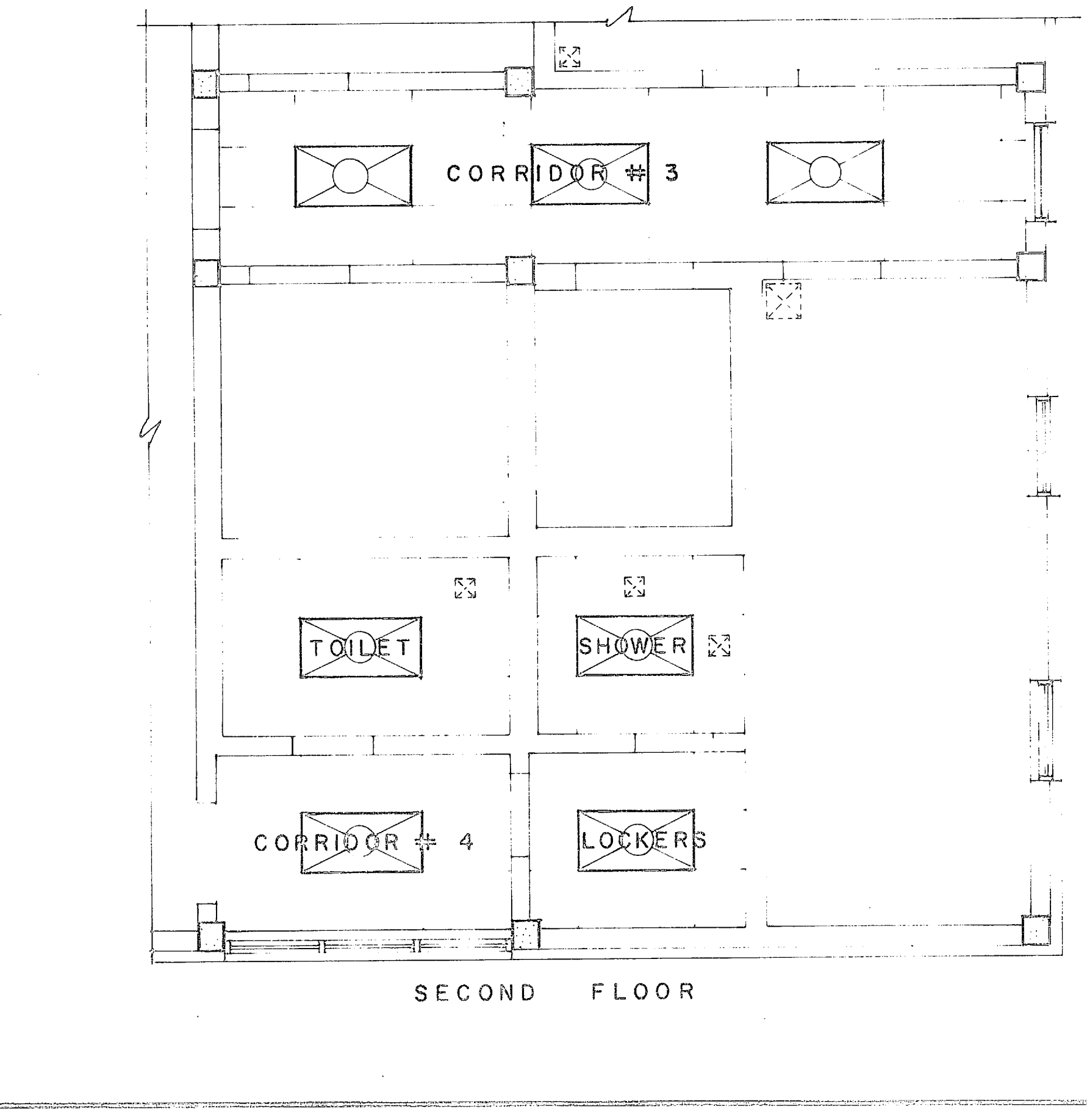
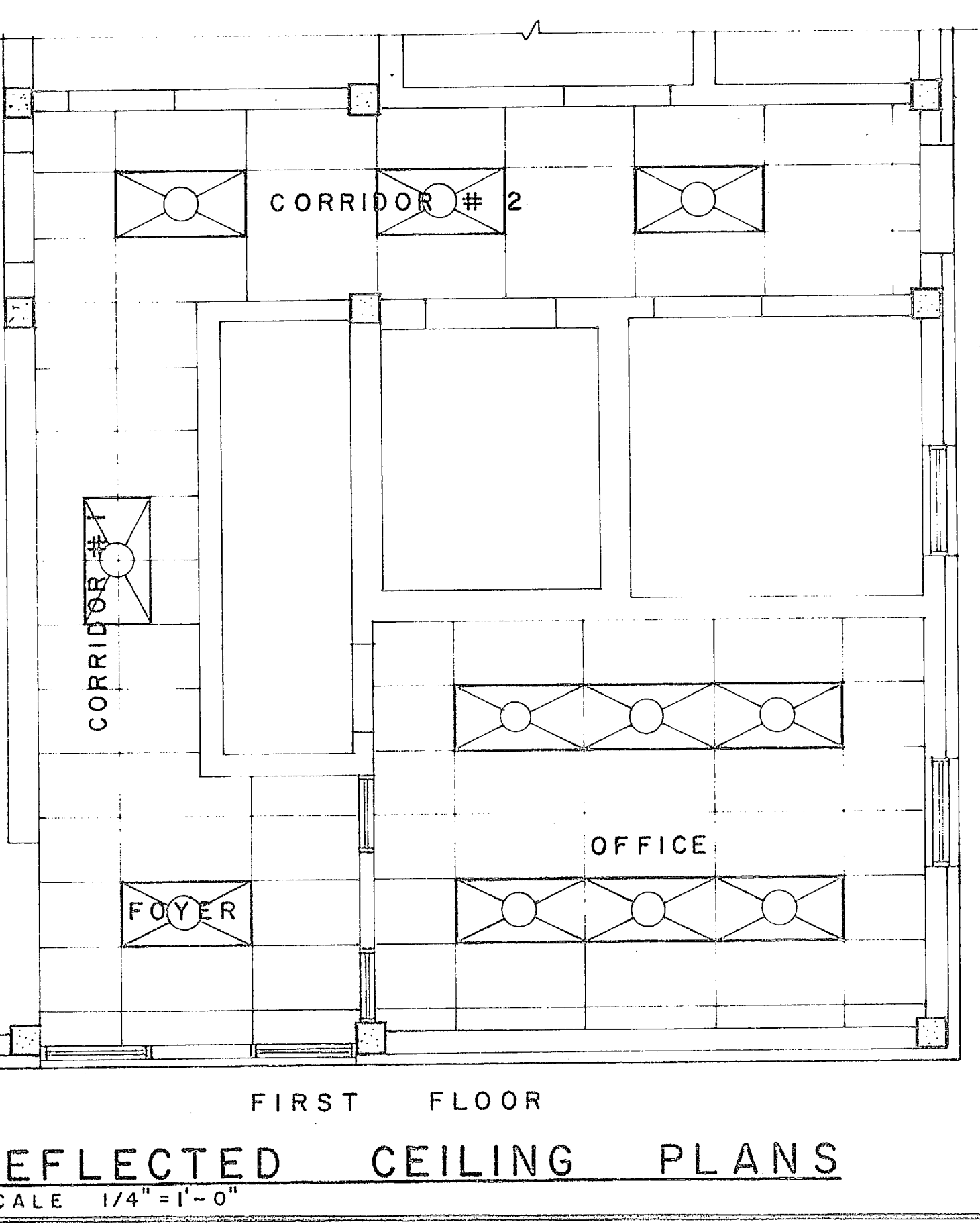
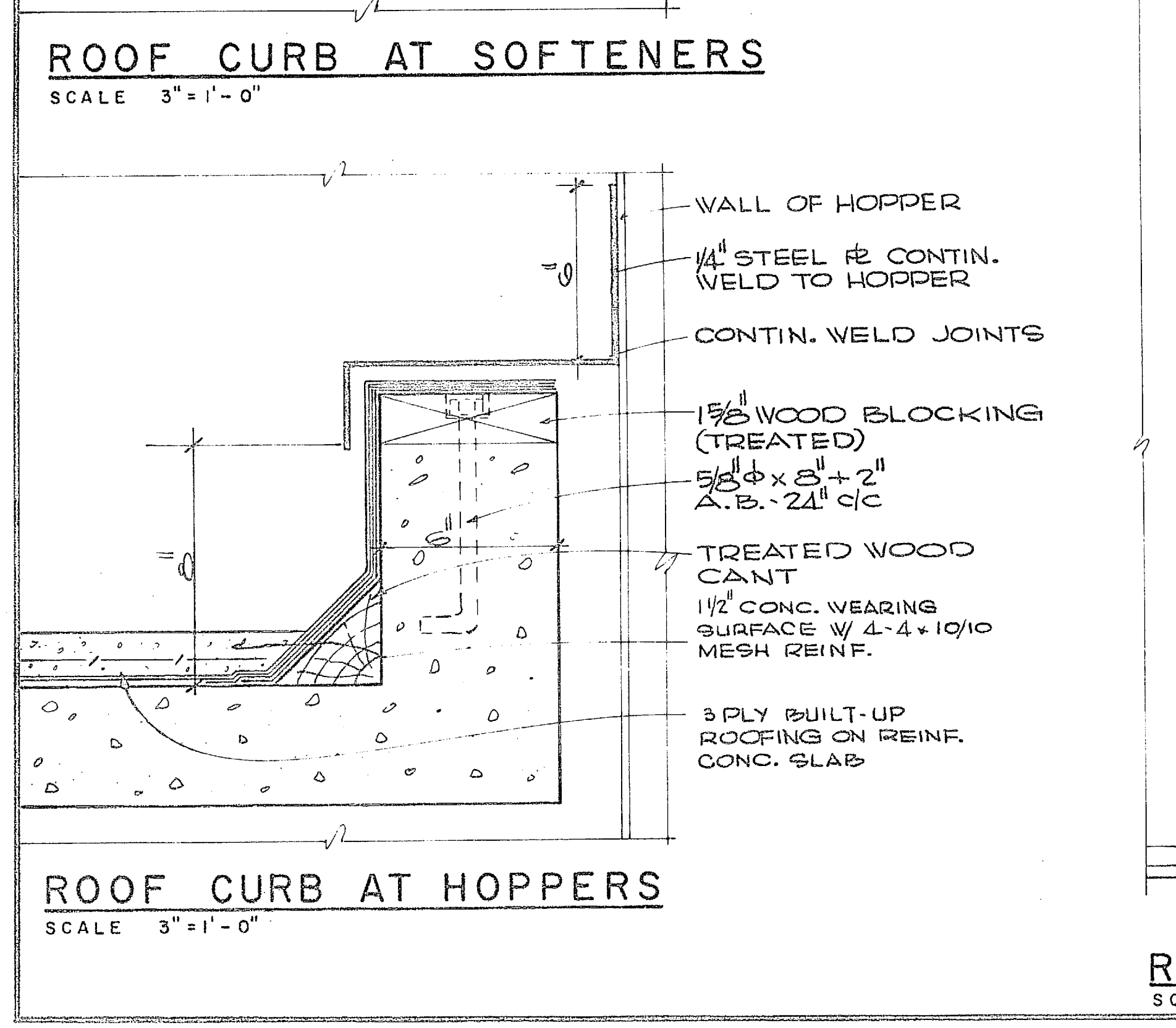
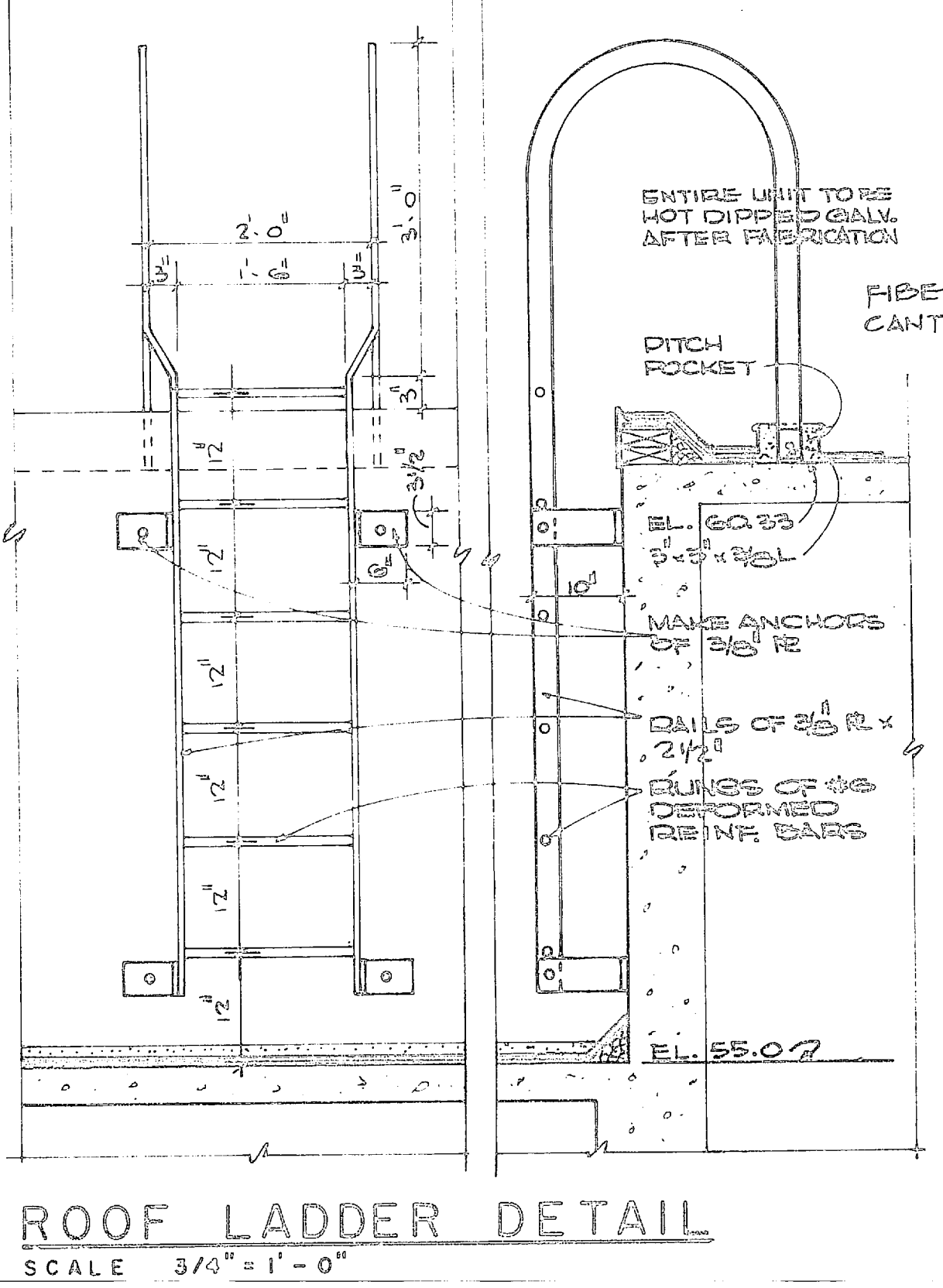
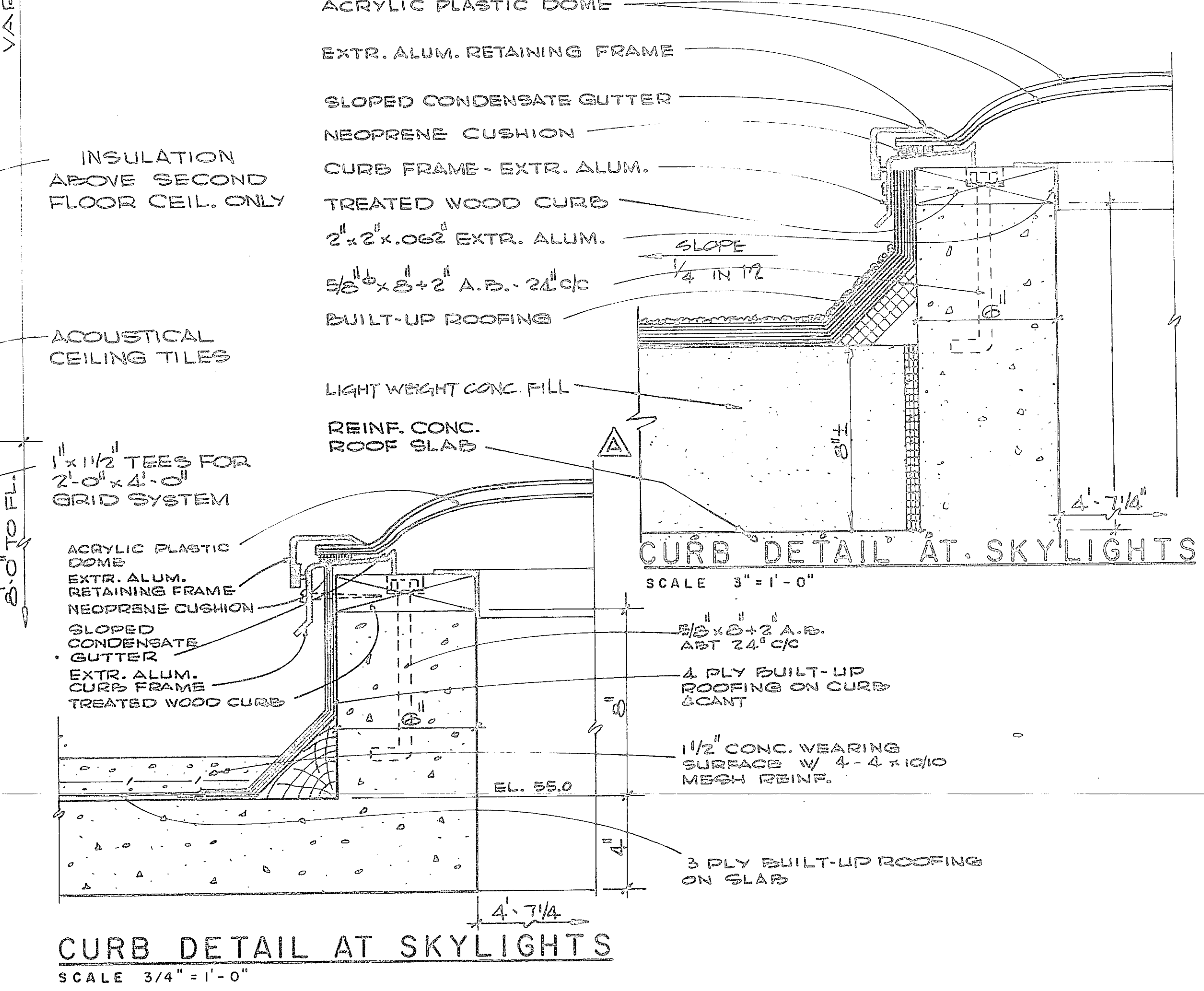
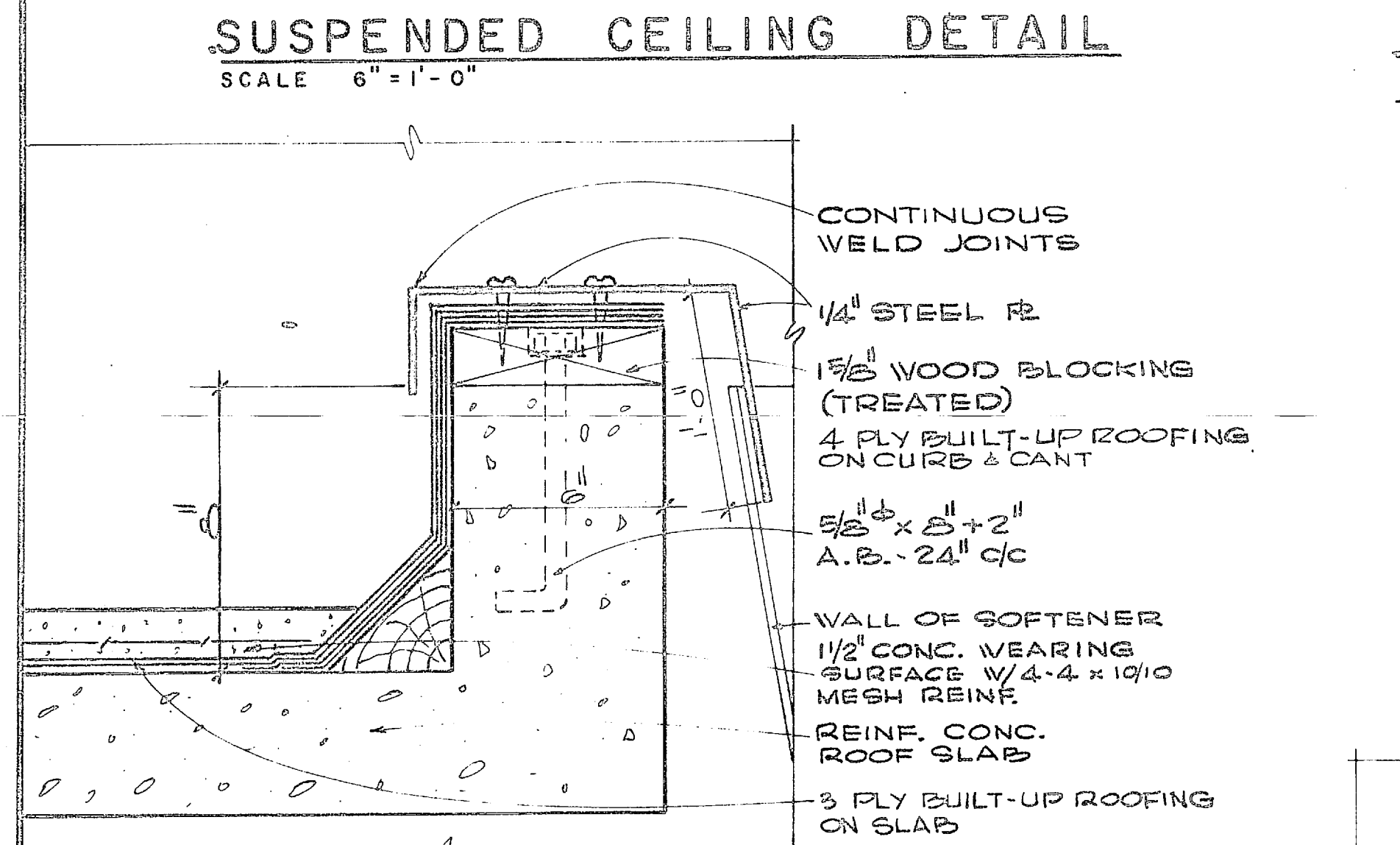
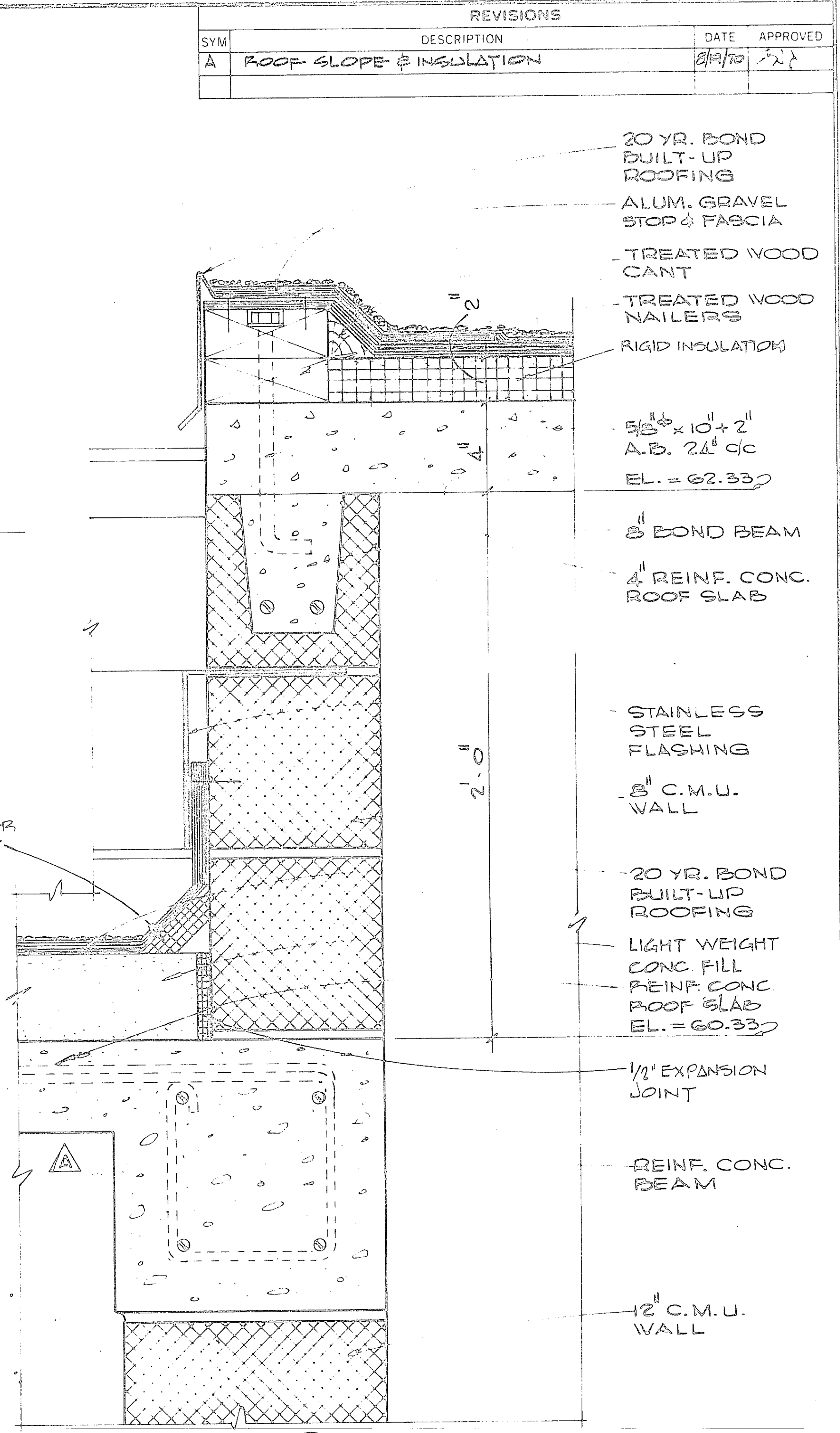
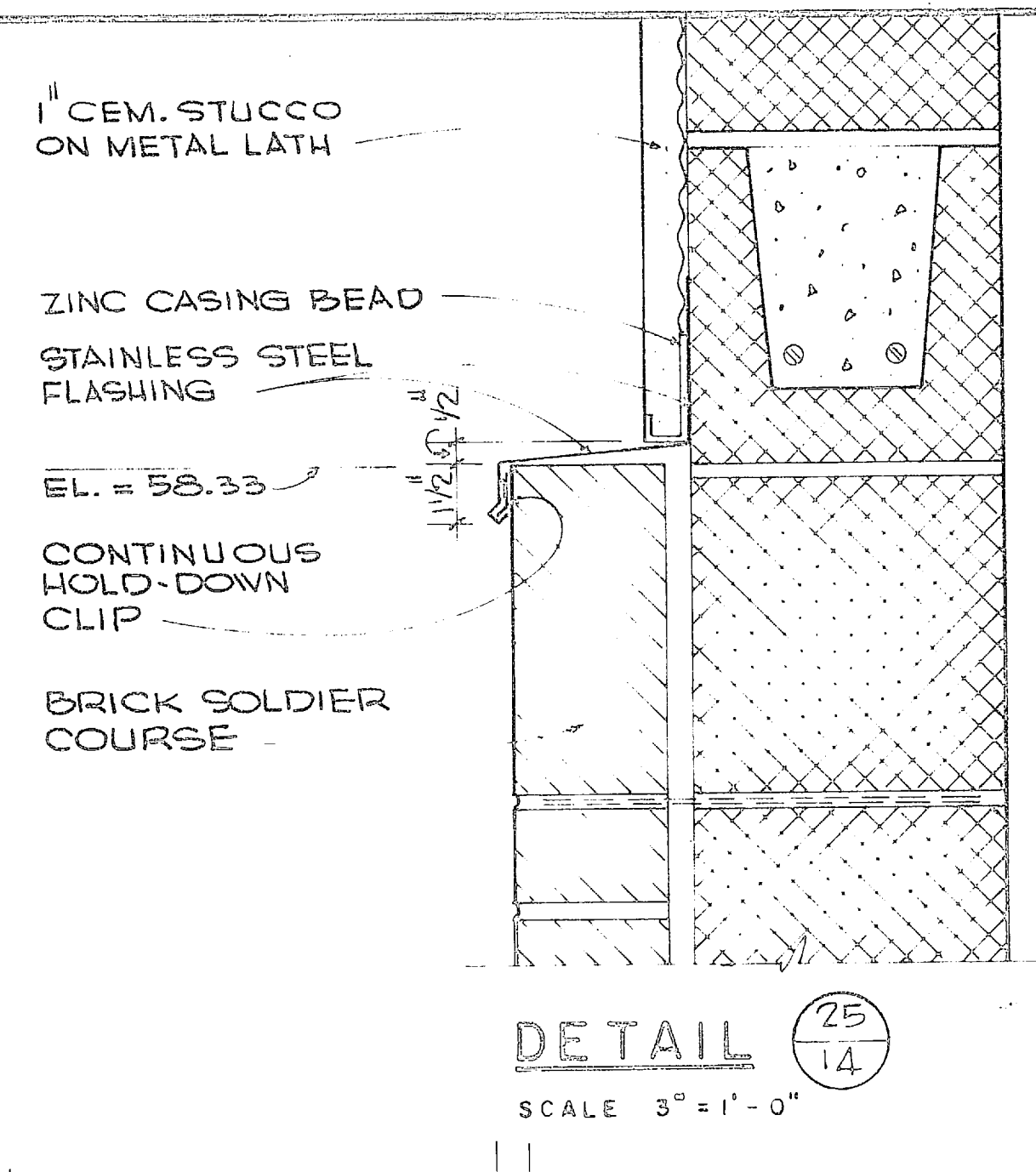
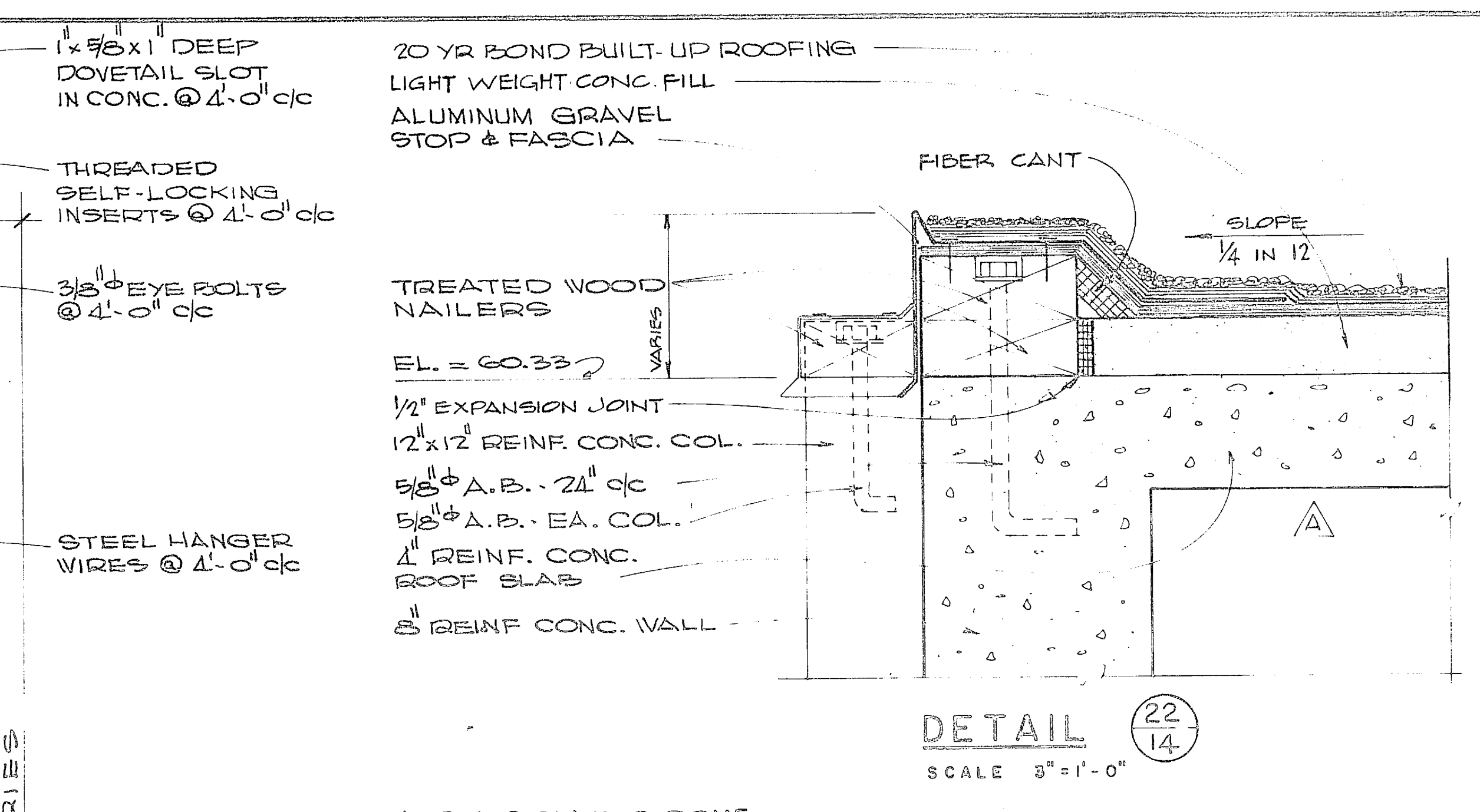
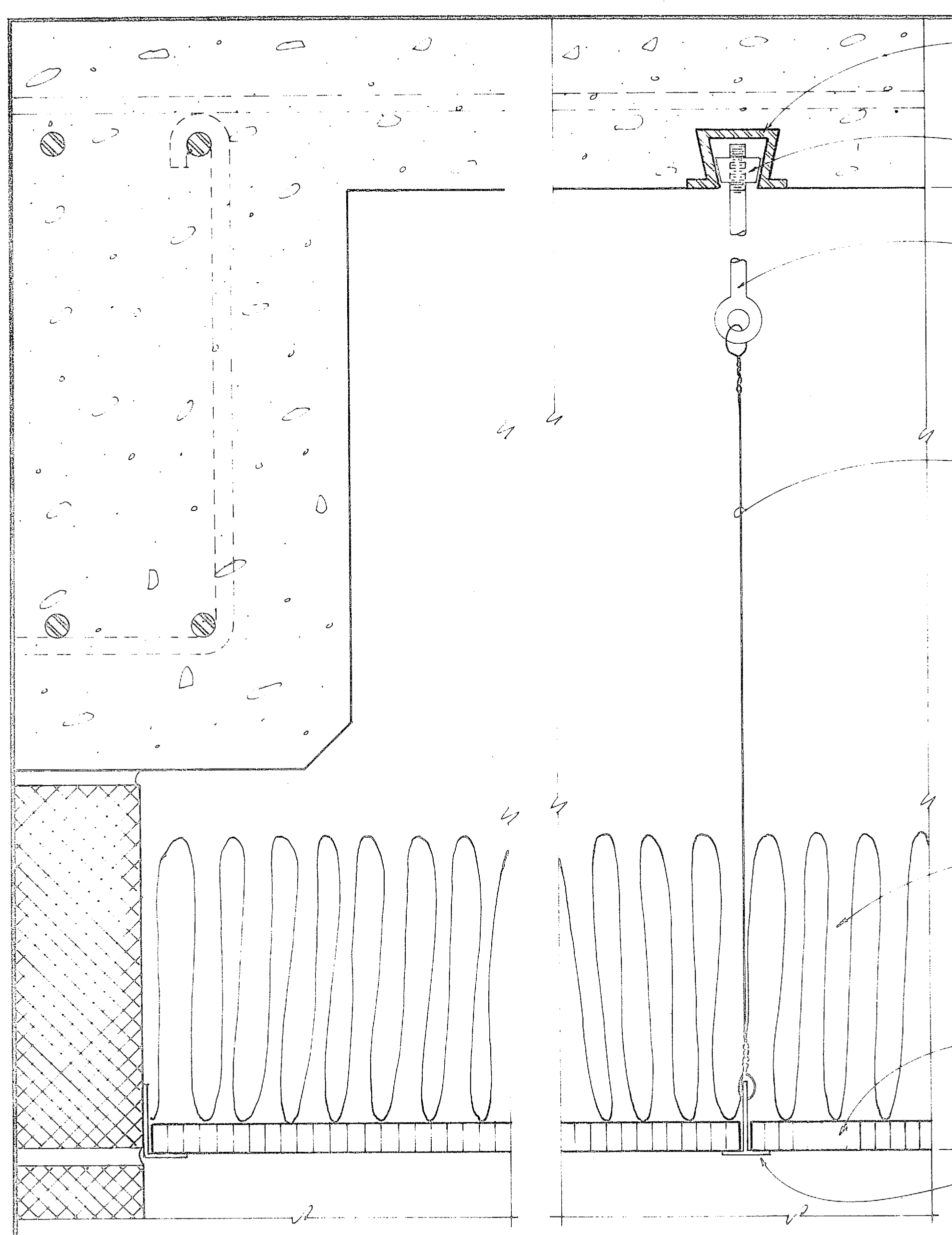
ELEVATION - STAIR # 2
SCALE 3/4" = 1'-0"



HENRY VON DESH & ASSOCIATES CONSULTING ENGINEERS UNIVERSITY BLVD. S.E.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION	
DES. J.R.D.	DR. J.D.P.	CHK. J.H.J.	DATE 5/25/70
SUGGESTED BY J.R.D.		DATE 5/25/70	
APPROVED J.R.D.		DATE 5/25/70	
PUBLIC WORKS OFFICER J.H.J.		DATE 5/25/70	
PROJECT NO. 80091		NAVFAC DRAWING NO. 1338901	
SCALE 3/4" = 1'-0"		CONST. CONT. NO. N62470-70-B-0939	
SPEC. 05-70-0939		SHEET 13 OF 49	



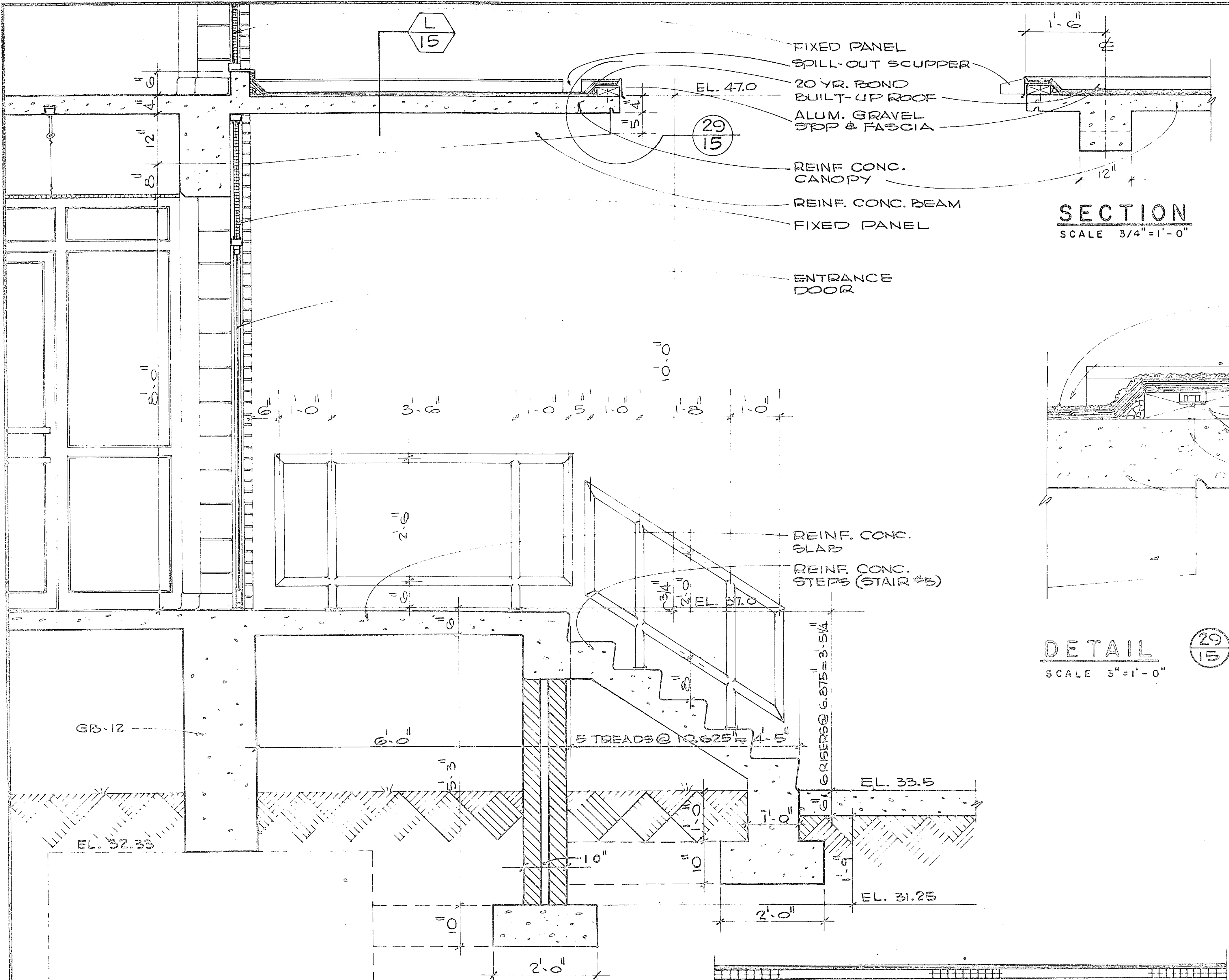
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
A	ROOF SLOPE & INSULATION	8/19/70	J.P.



HENRY VOH GESER & ASSOCIATES CONSULTING ENGINEERS VIRGINIA BEACH, VA.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NORFOLK, VA.	
DES. J.E.G.	DR. J.W.	DATE	
SUPV. J.C.B.	ENR. J.P.S.	DATE	
SUBMITTED BY A. Brown	DATE		
MEMBER	PROJ. NO.		
APPROVED	DATE		
PUBLIC WORKS OFFICER		CODE UNIT NO.	NAVIC DRAWING NO.
80091		1338 902	
PROJECT		CONTRACT NO.	
WATER TREATMENT PLANTS, WELLS AND DISTRIBUTION SYSTEM		NS2470-70-9-0939	
CAMP LEJEUNE, NORTH CAROLINA		SHEET	10 OF 69
TREATMENT PLANT DETAILS & CEILING PLANS		DATE	
8/19/70		BY	
84902			

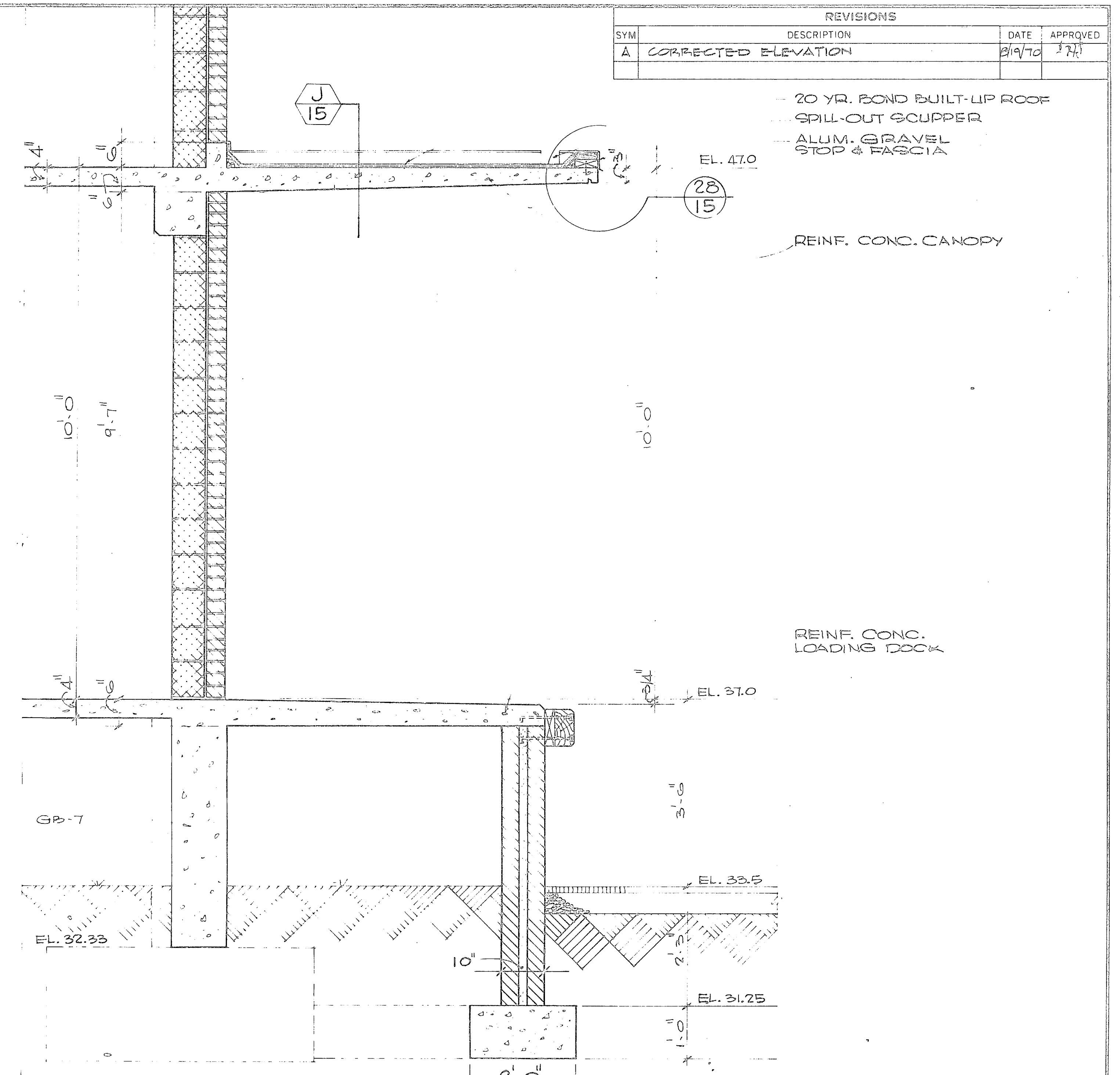


REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
A	CORRECTED ELEVATION	2/19/70	JTB

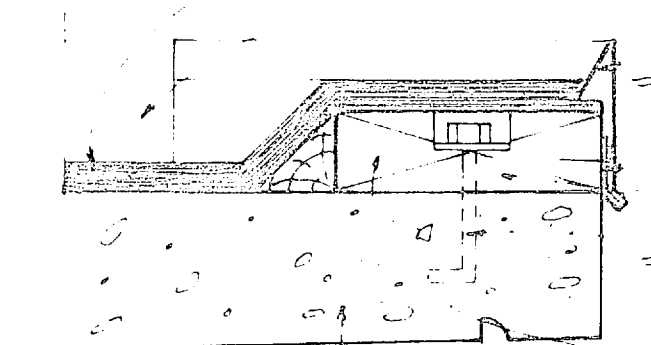


SECTION
SCALE 3/4"=1'-0"

DETAIL
SCALE 3"=1'-0"

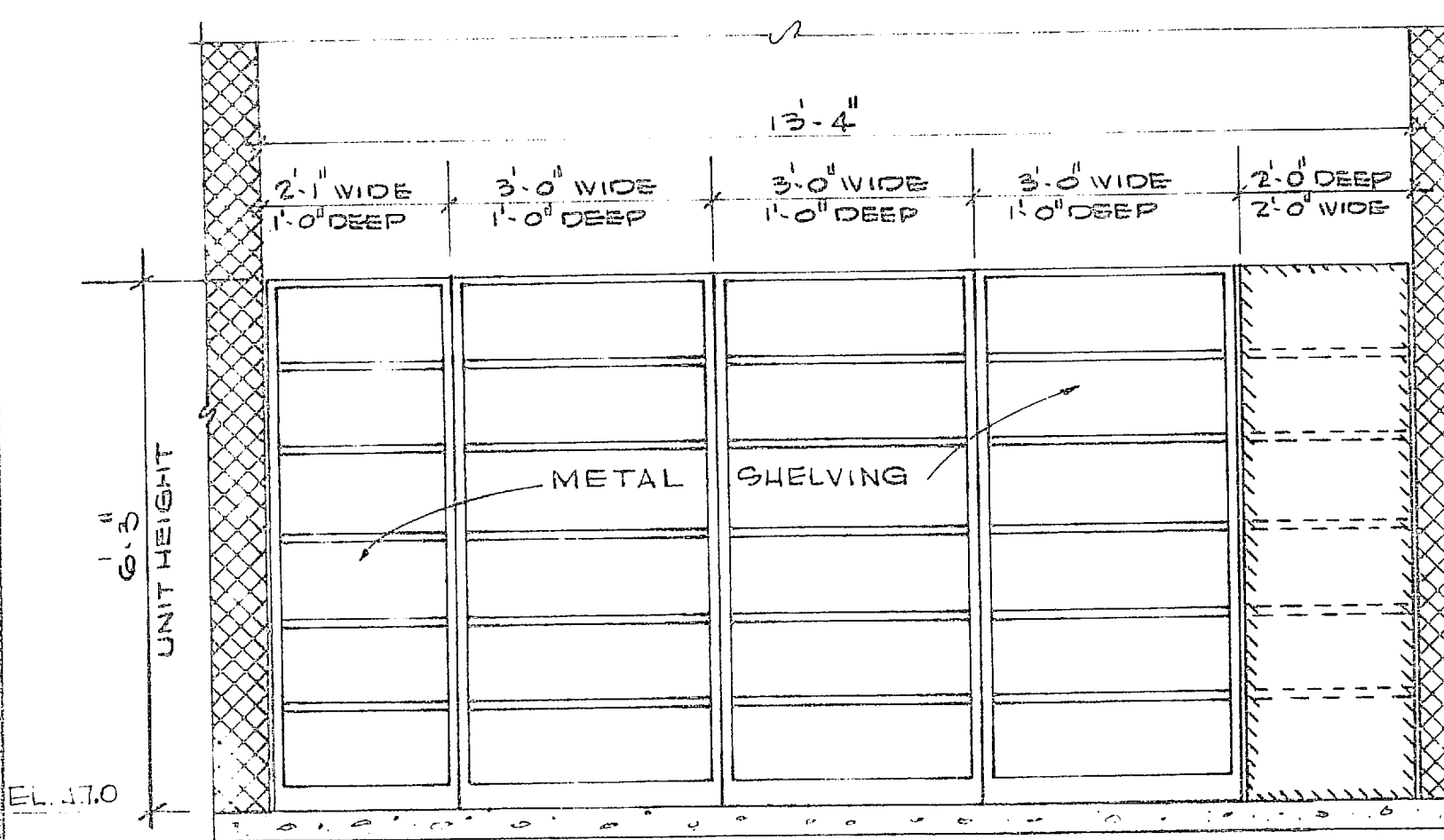


LOADING DOCK CANOPY SECTION
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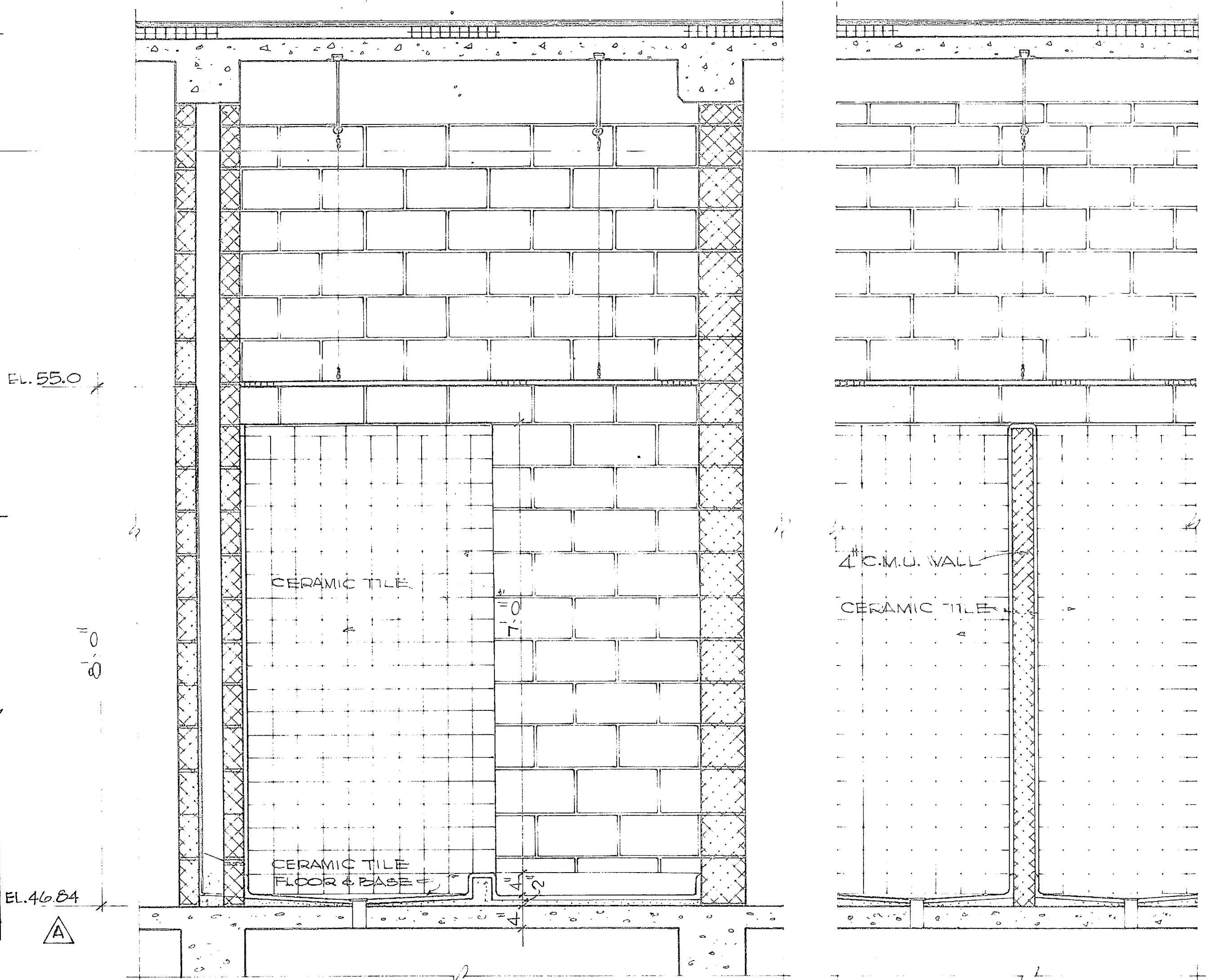


DETAIL
SCALE 3"=1'-0"

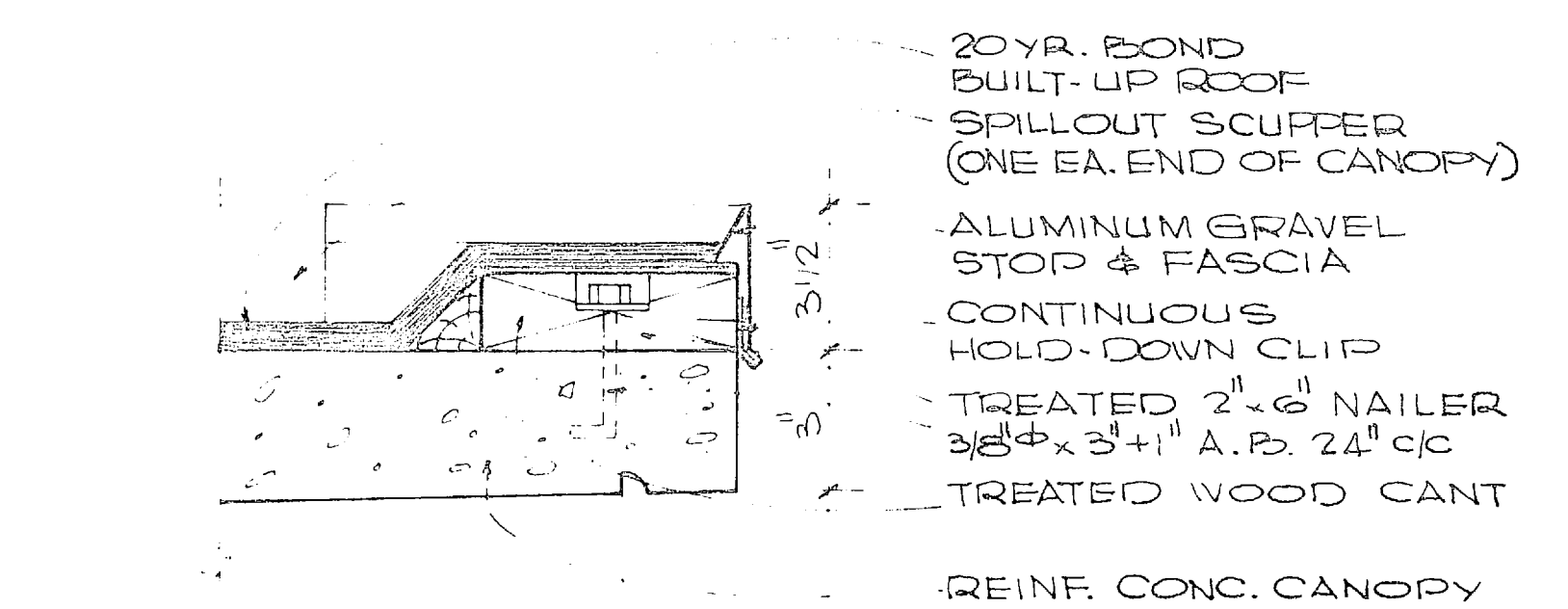
ENTRANCE CANOPY SECTION
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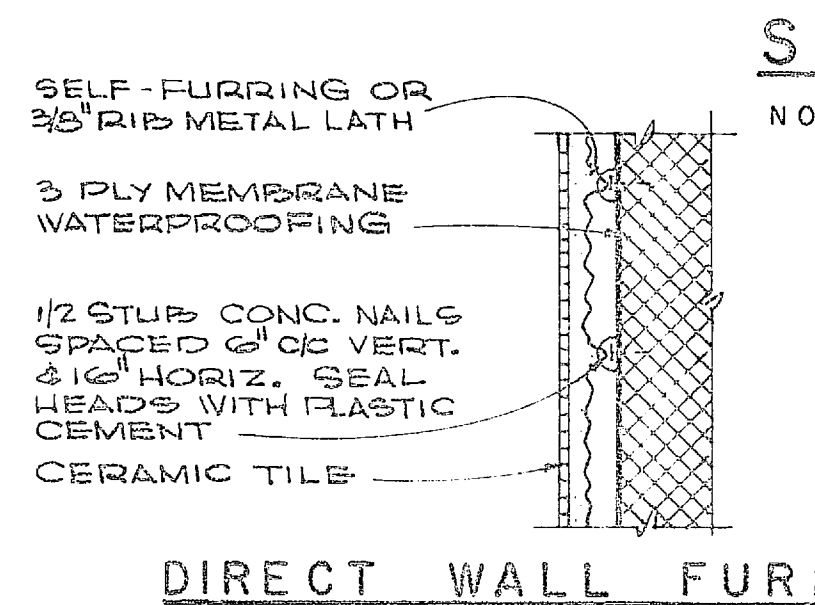
DETAIL - SHELVES - STORAGE #1
SCALE 1/2"=1'-0"



SECTION THRU SHOWER STALLS
SCALE 3/4"=1'-0"



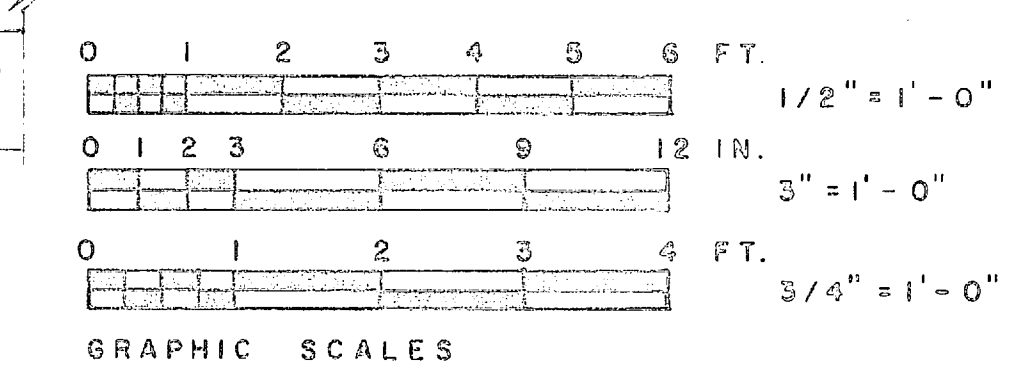
DETAIL
SCALE 3"=1'-0"



DIRECT WALL FURRING

SECTION
SCALE 3/4"=1'-0"

- 1 1/2" MIN. MORTAR BED
- SHRINKAGE MESH - LAP CORNERS & EXTEND UP WALLS 1" MIN. ABOVE TOP OF CURB
- SLOPE 1/2" PER FT. TO DRAIN
- 3 PLY FABRIC MEMBRANE
- CERAMIC TILE ON CONC. CURB TOP OF CURB

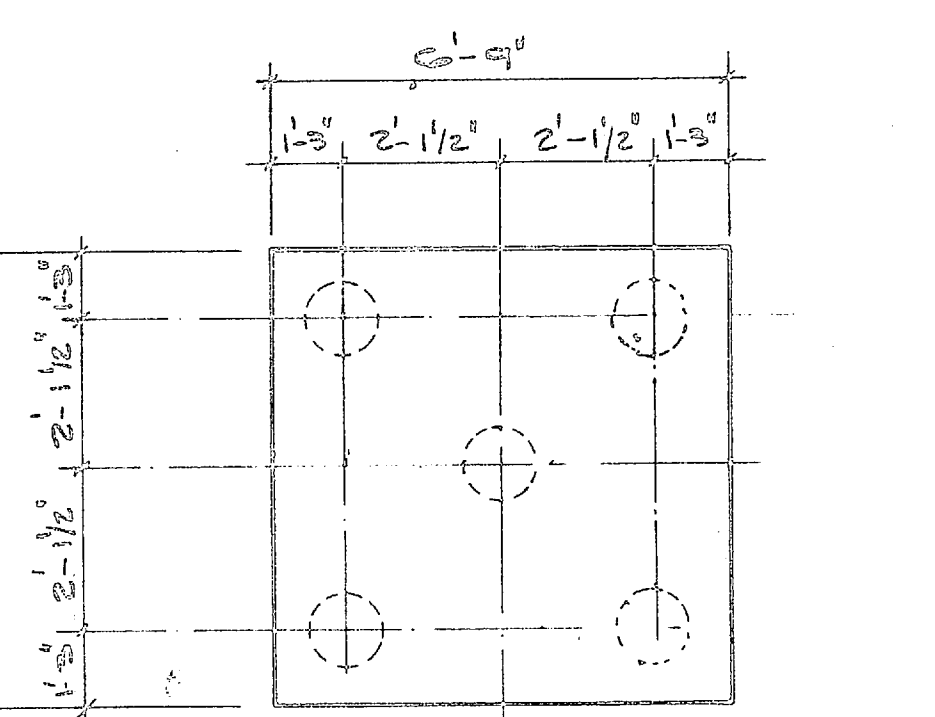
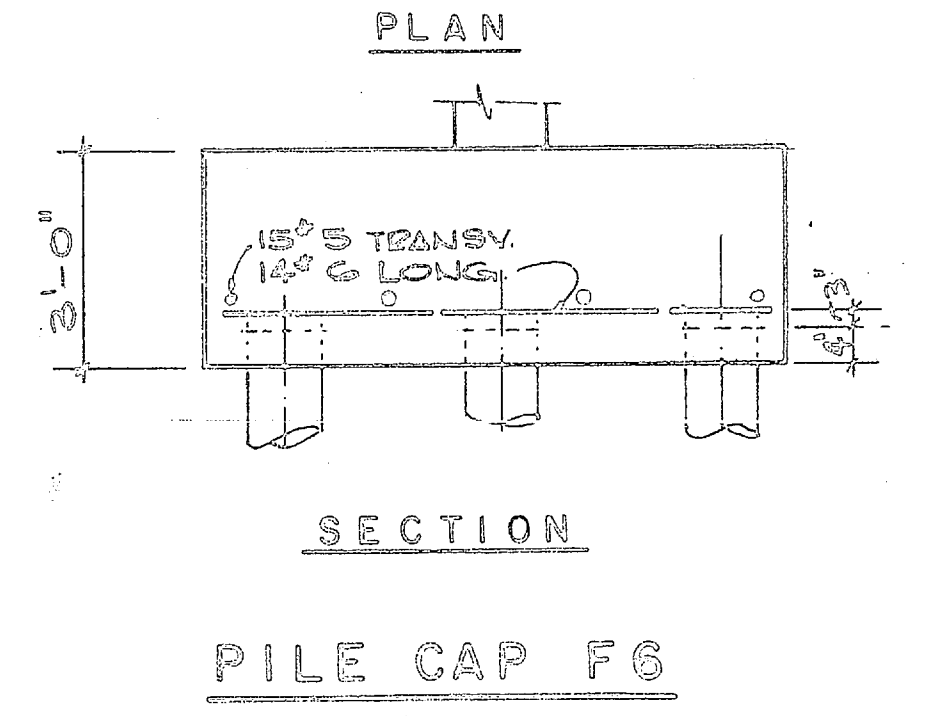
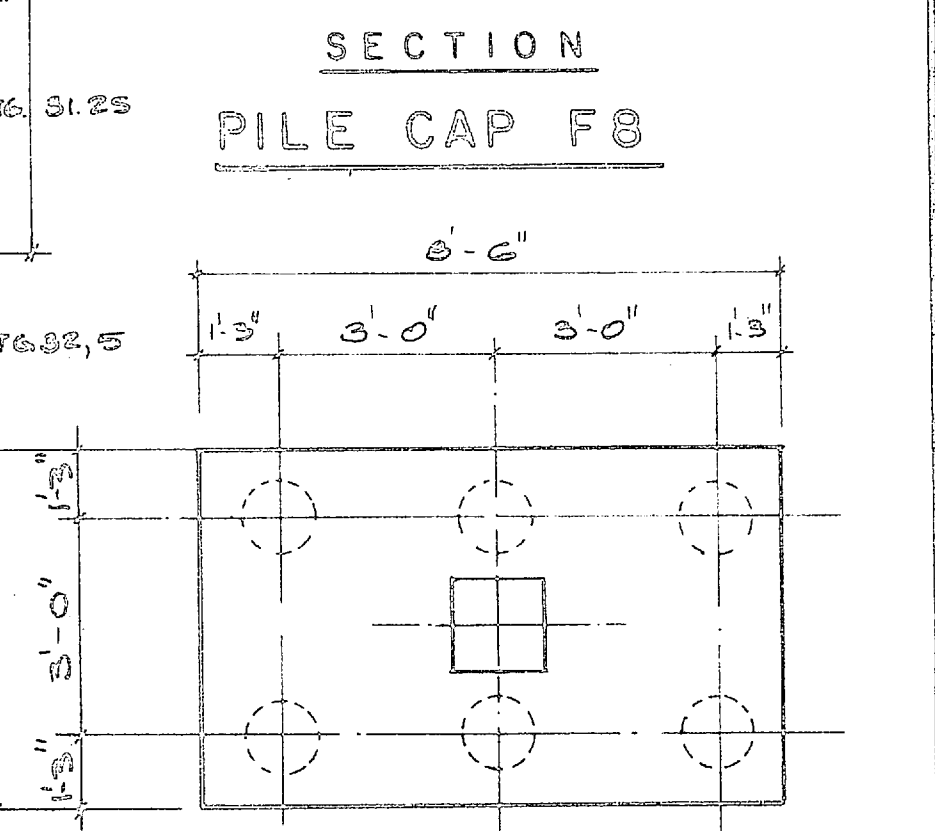
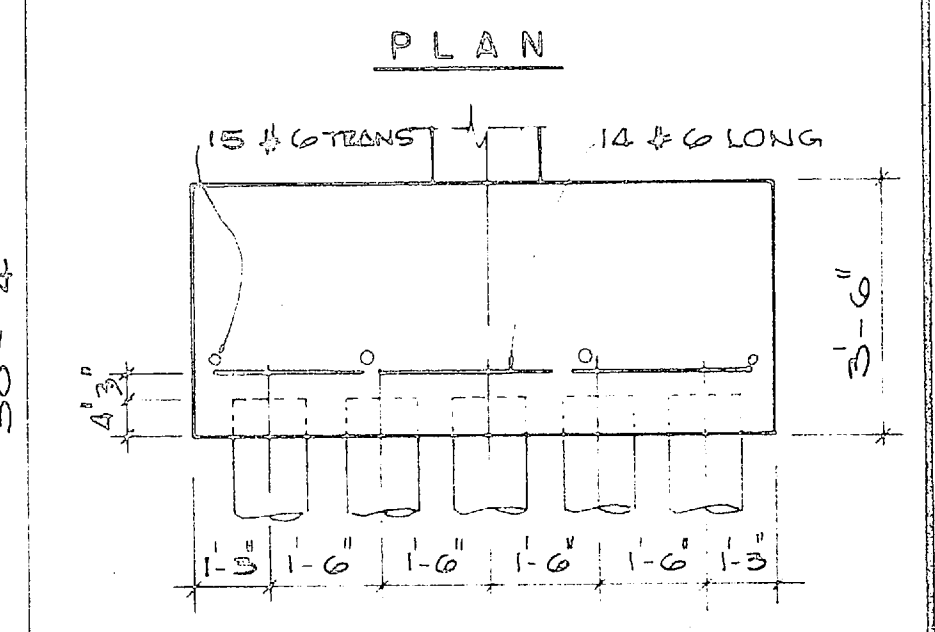
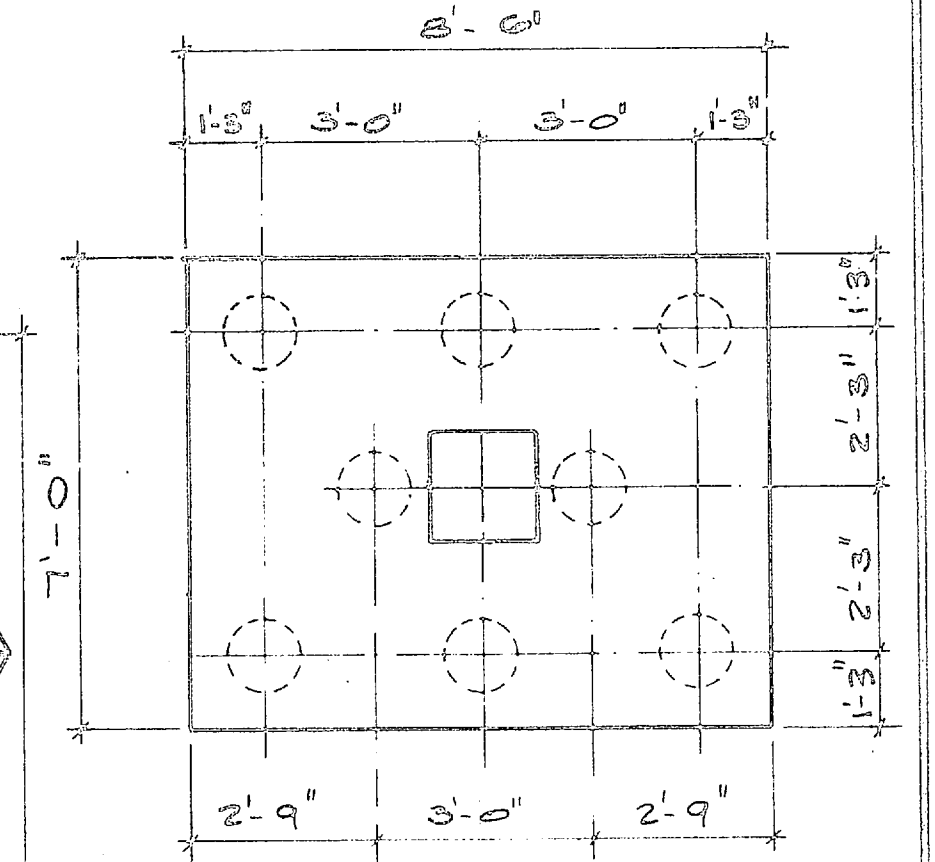
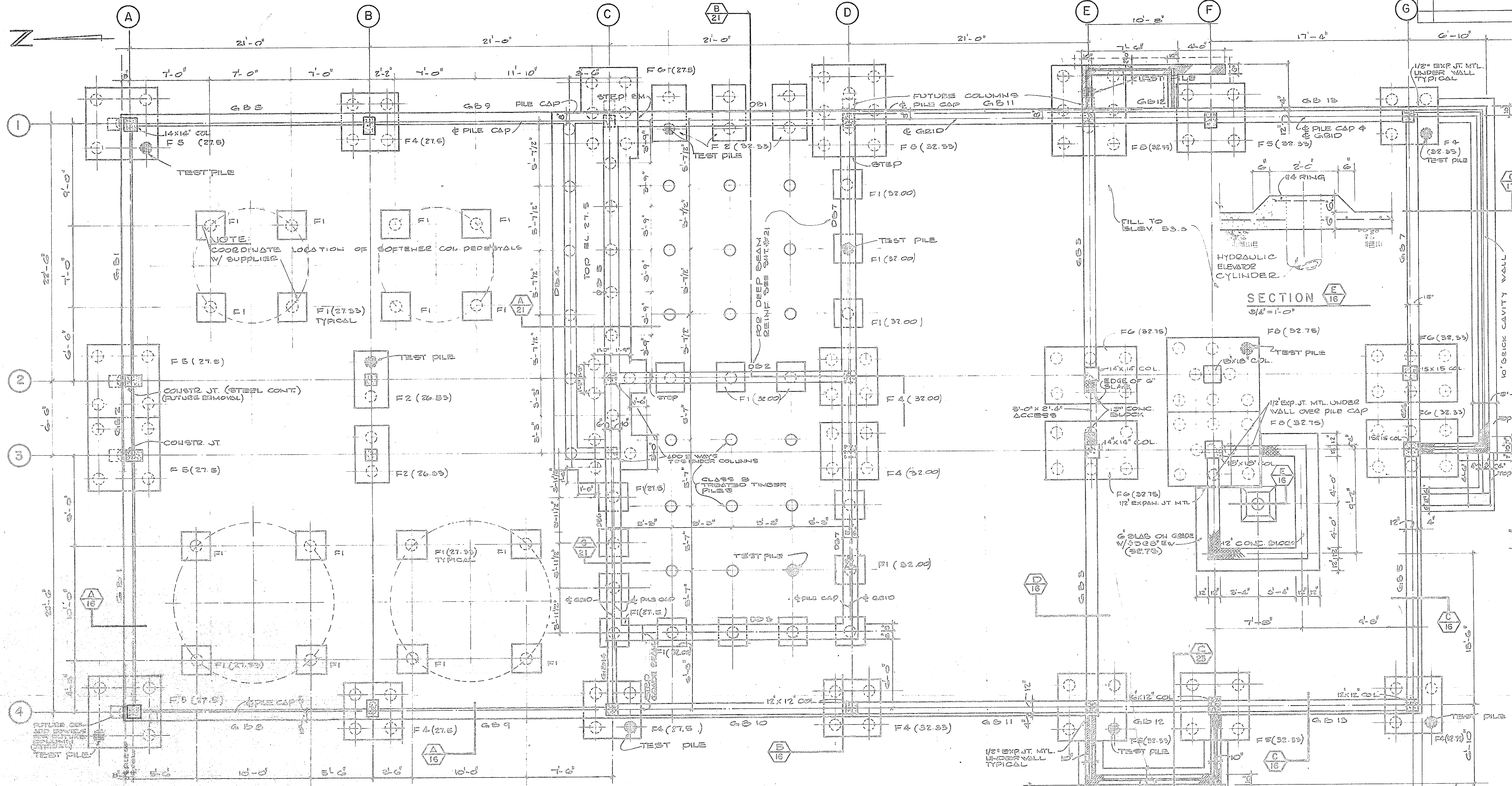


SHOWER WATERPROOFING

HENRY VON DESEN & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, N. C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NORFOLK, VA	
DES. JED	DR. J.W.	CHK. JED	DATE 5/25/70
SUPV. HUCD	CH. ENGR. JED	DATE	
SUBMITTED BY		DATE	
FILE NUMBER		REV. E.L.W.	
NO. 1	DR. J.W.	DATE	
APPROVED		DATE	
PUBLIC WORKS OFFICER		DATE	
PROJECT NO. 80091		NAVY DRAWING NO. 1338 903	
CONTRACT NO. N62470-70-8-0939		SCALE AS SHOWN	SPEC. 05-70-0959
SHEET 15 OF 49		84903	



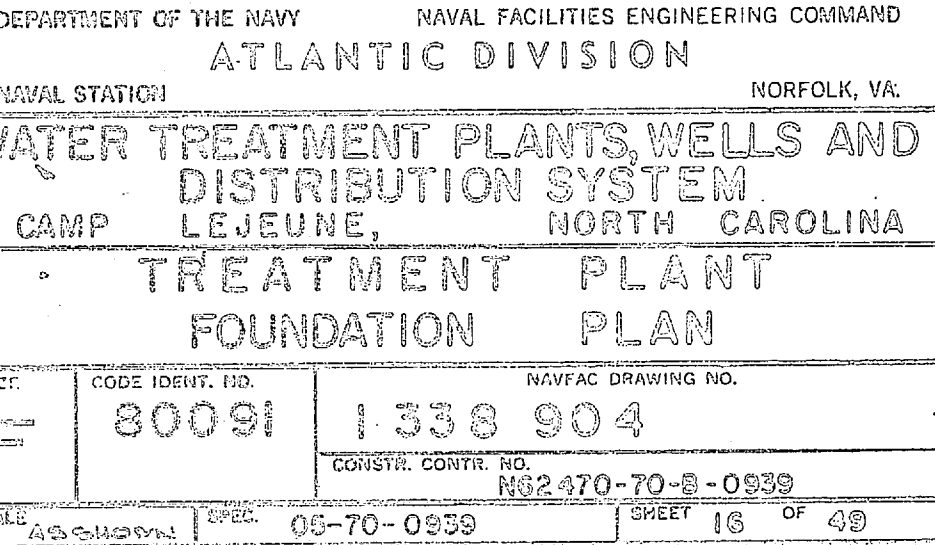
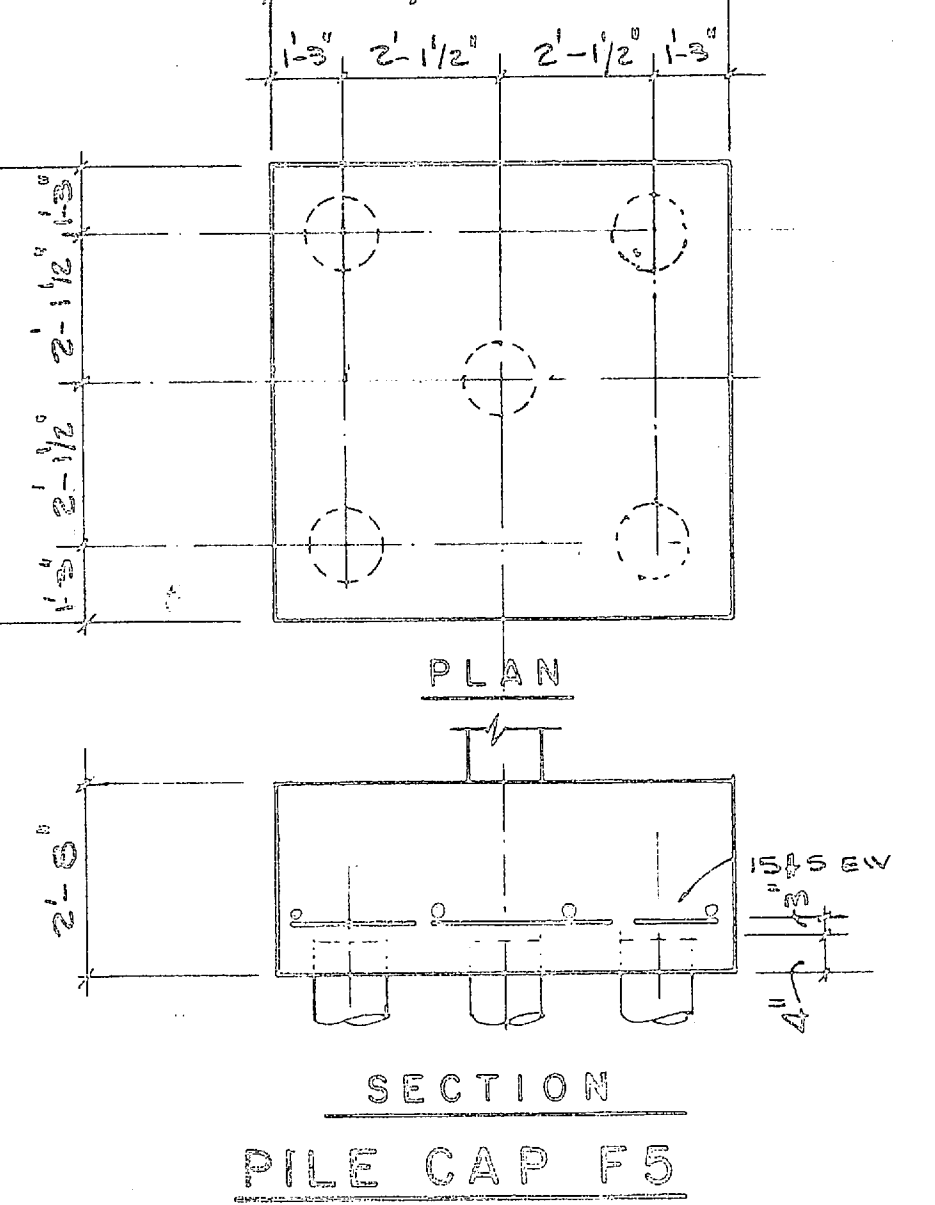
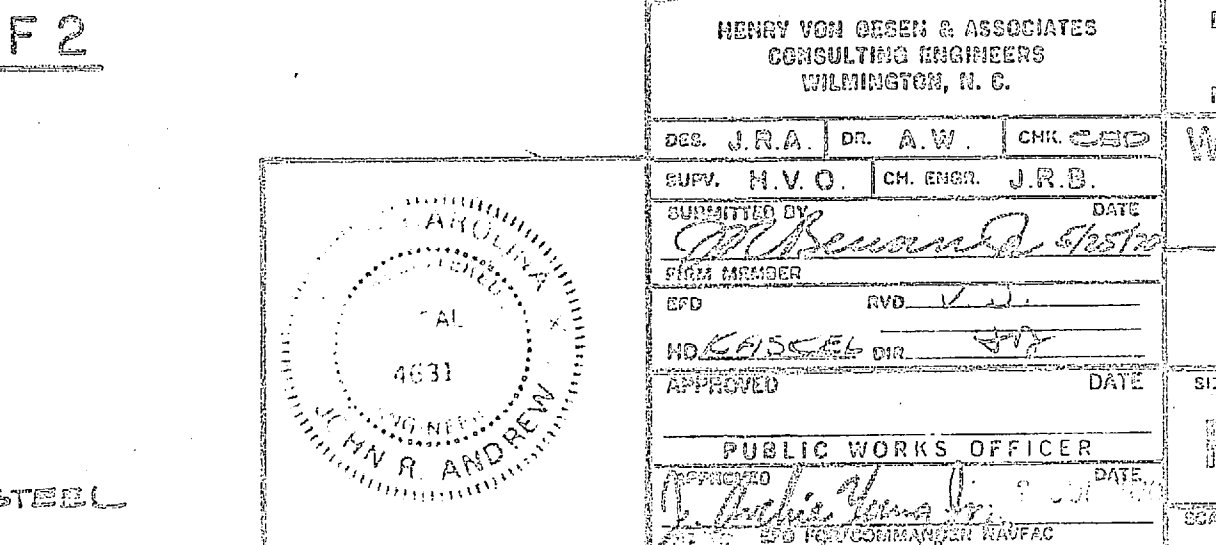
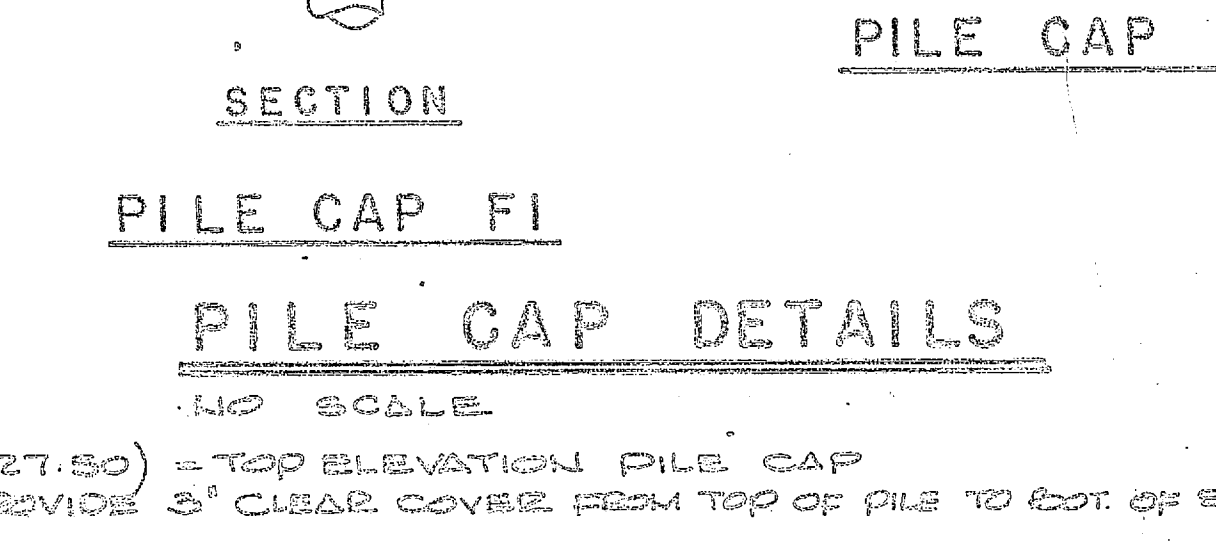
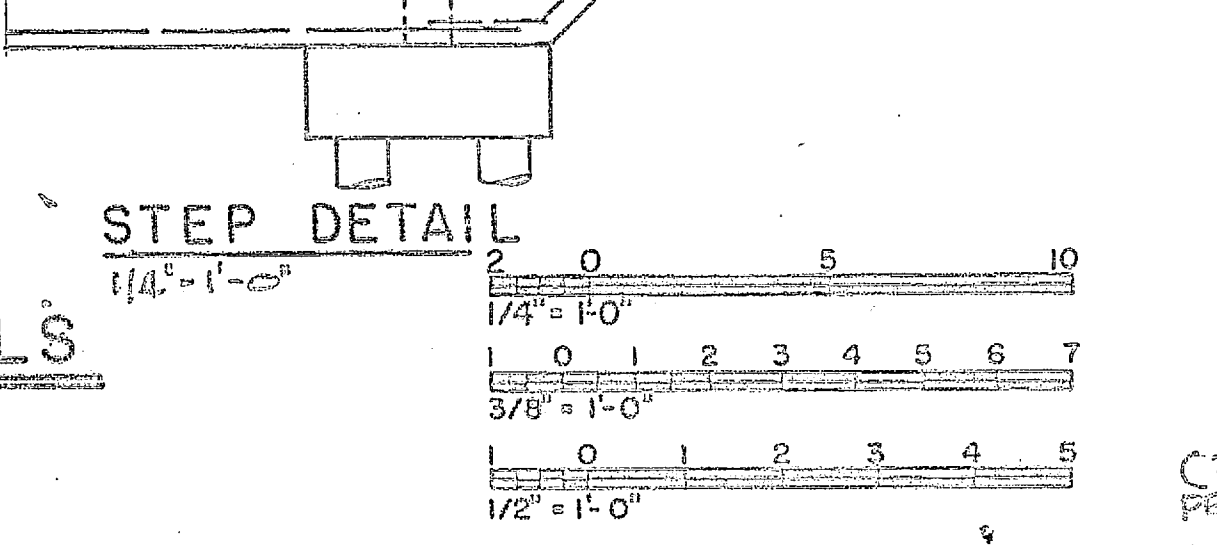
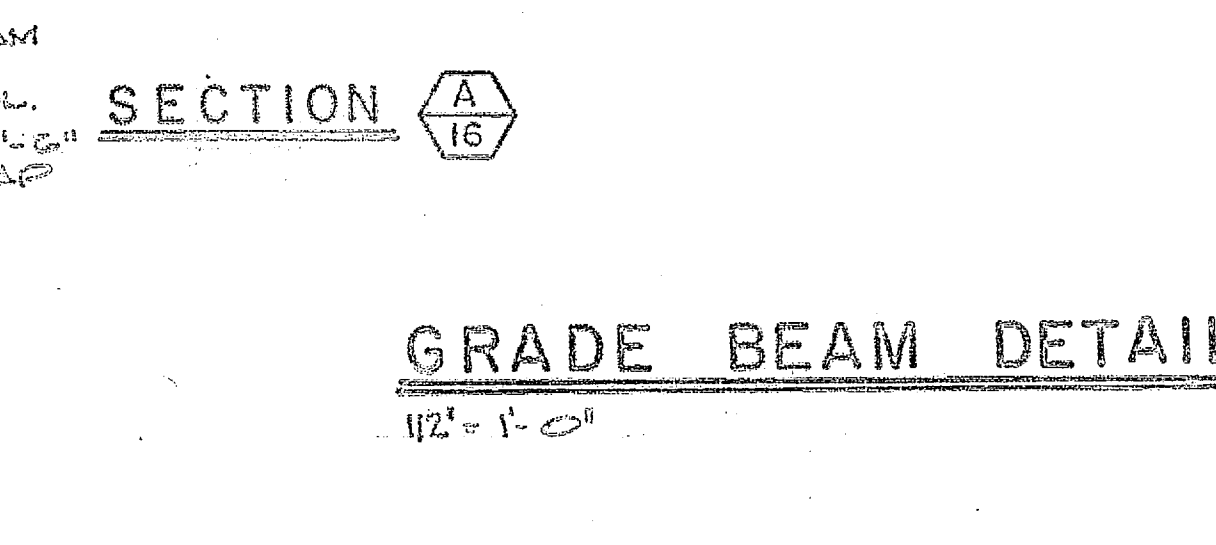
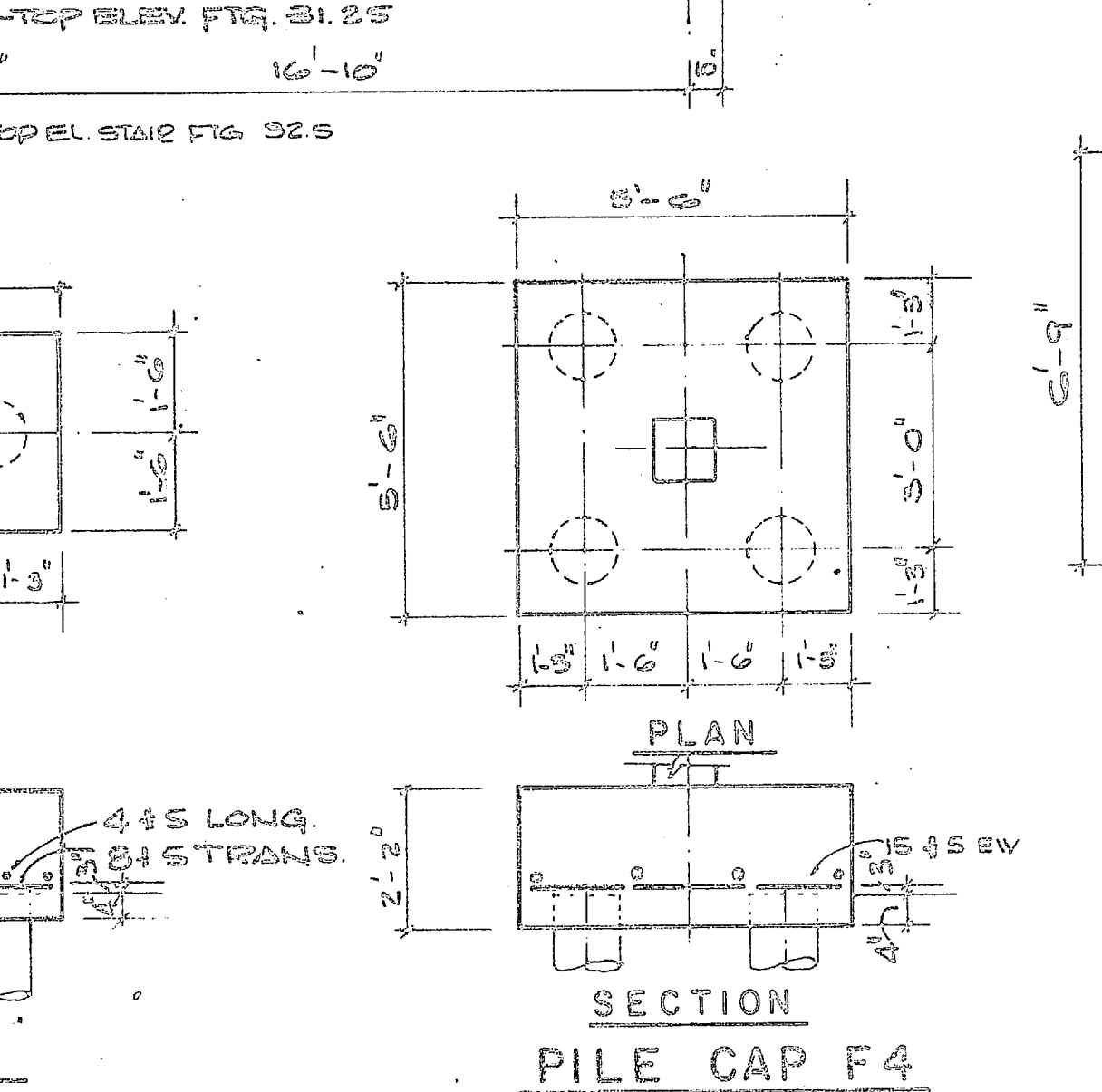
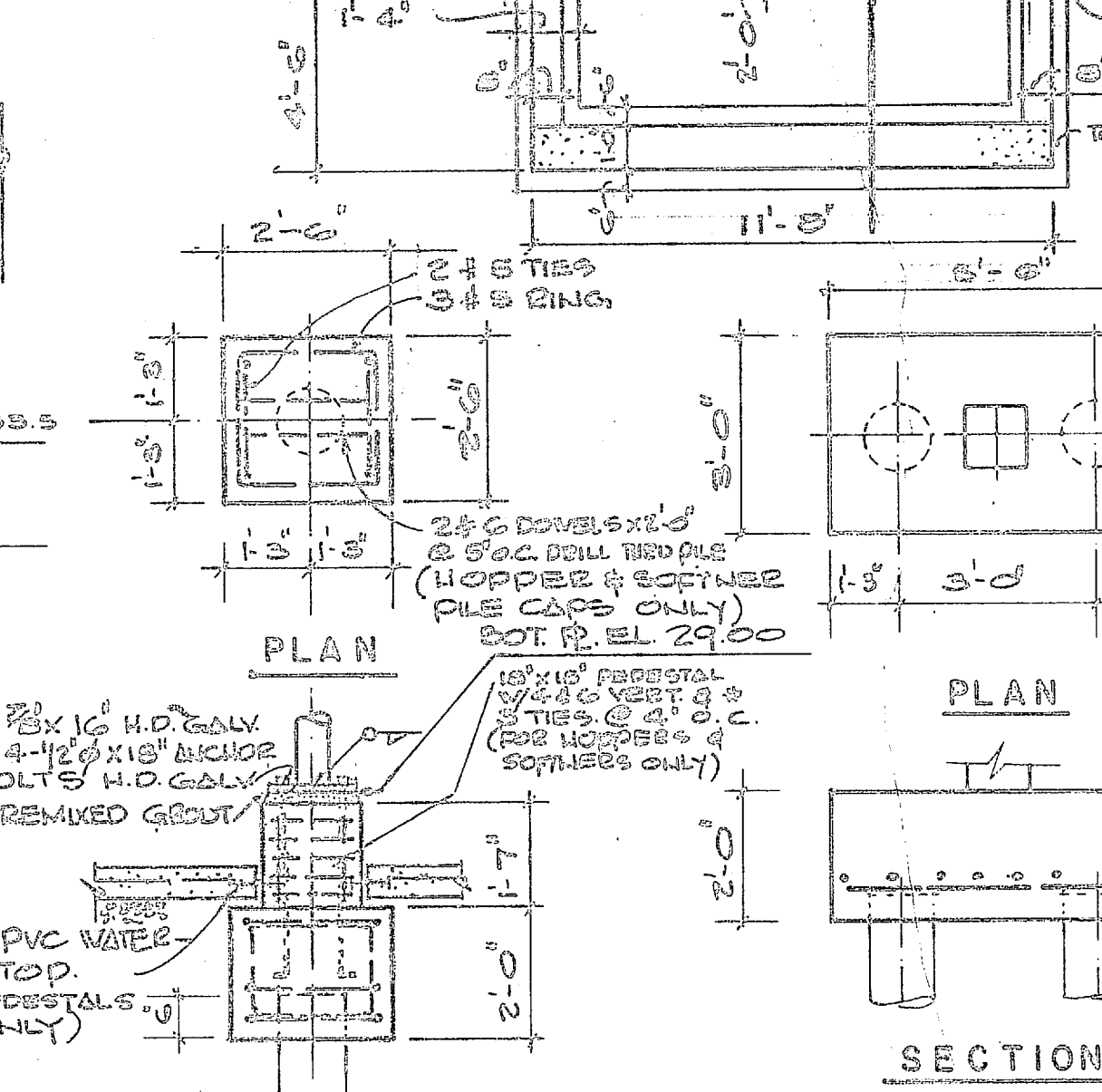
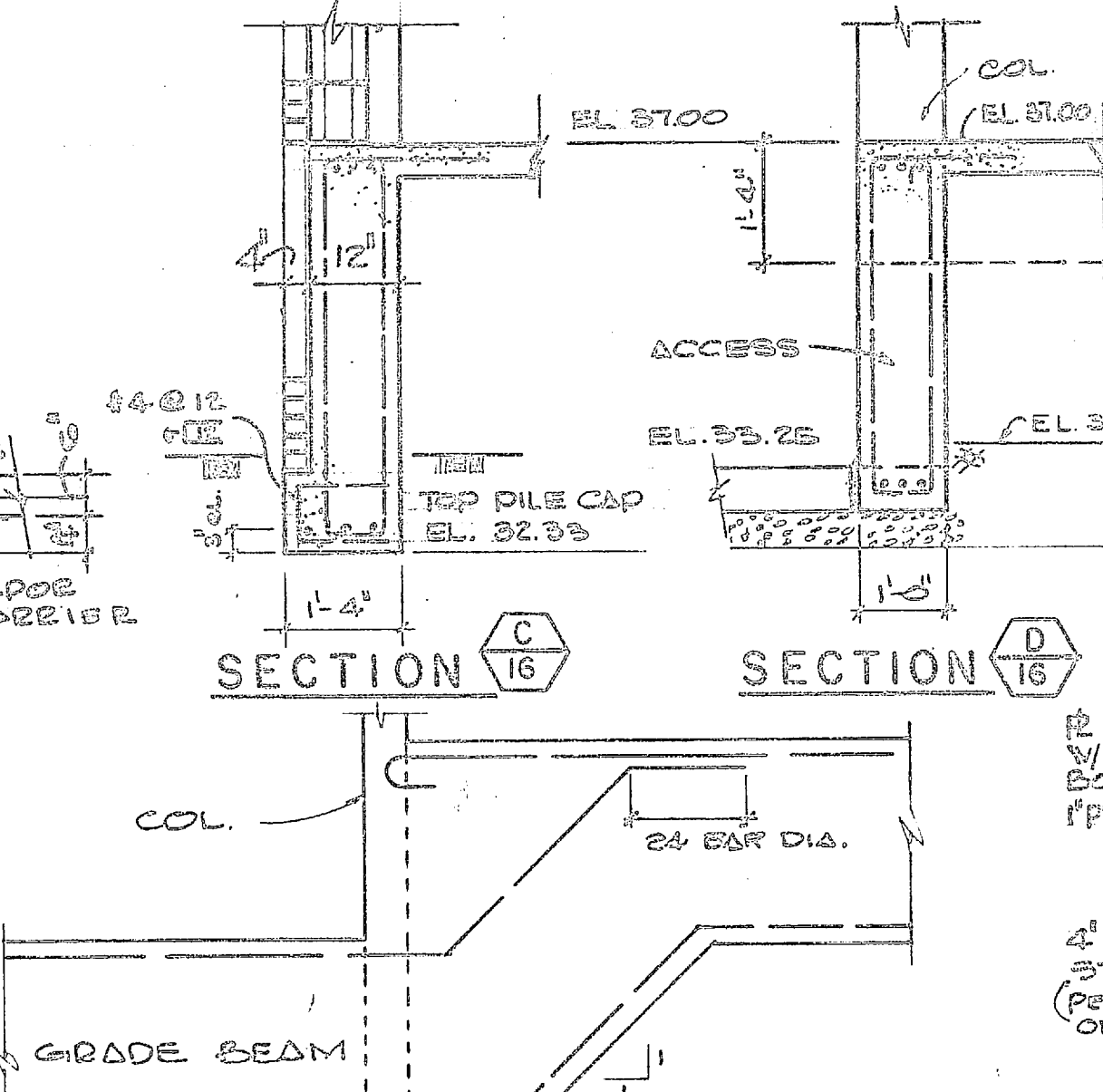
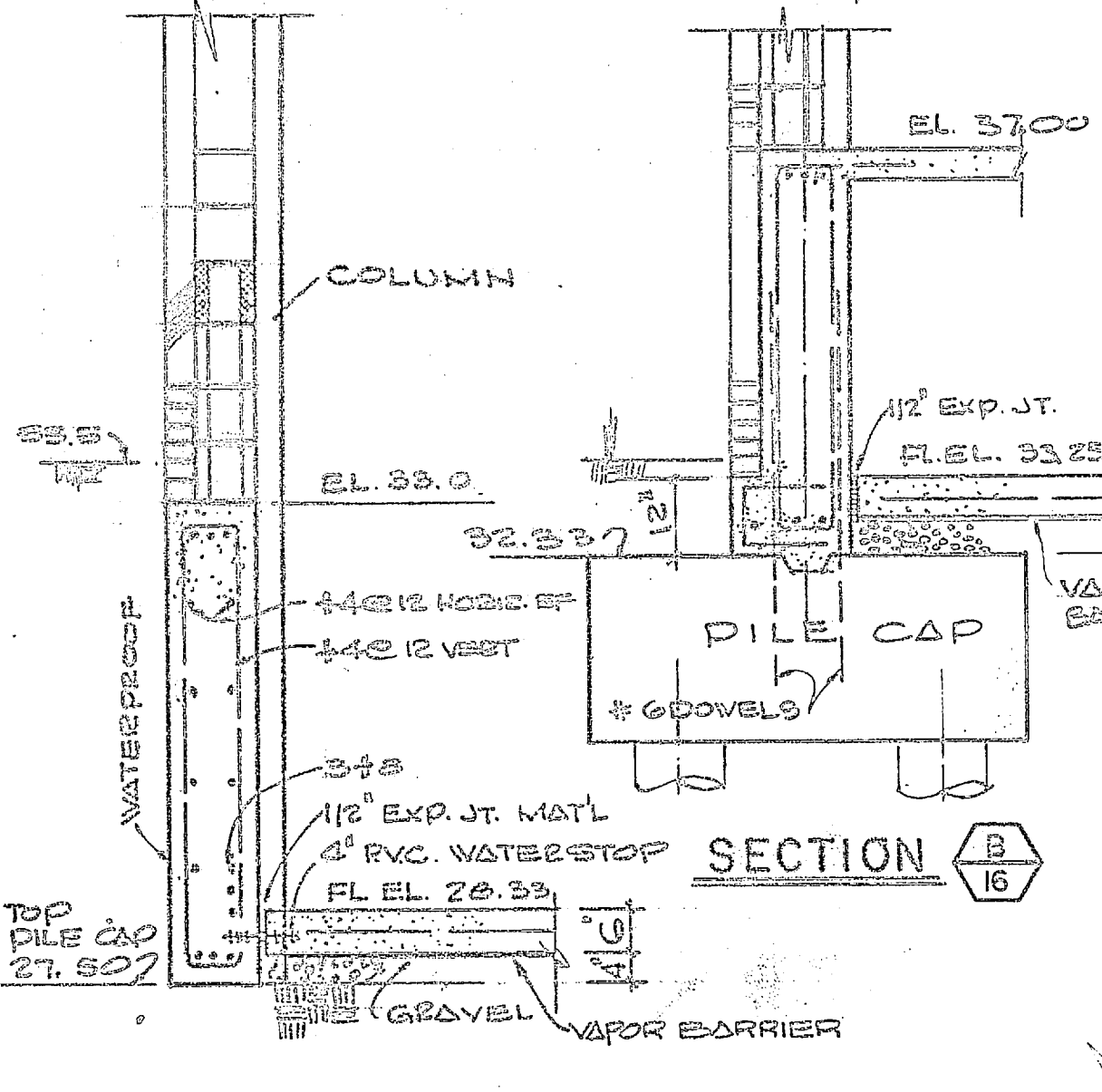
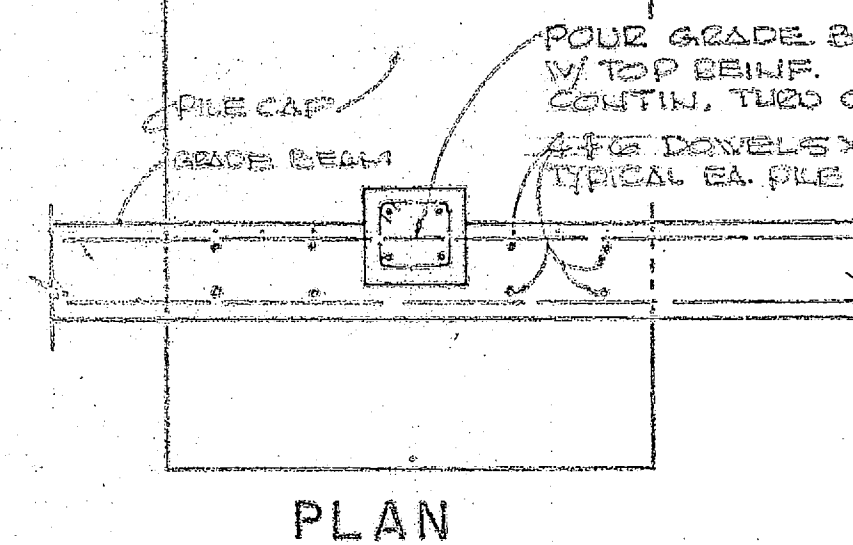
SYMBOL	REVISIONS	DESCRIPTION	DATE	APPROVED



FOUNDATION PLAN

GRADE BEAM SCHEDULE										
MARK	SIZE	REINFORCING								REMARKS
		W	D	BOT.	TOP.	TOP. SUPPT.	HORIZ. WALL REINF.	INSIDE FACE	EXT. FACE	
GB 1	12	60	31.8	2#8	1#8	3#8	4#12	4#8	4#12	VERT. EF
GB 2	12	60	D.O.	D.O.	D.O.	D.O.	D.O.	D.O.	D.O.	D.O.
GB 3	12	51	31.6, 24.5	2#6	1#6	—	—	4#6	4#12	TIES
GB 5	12	56	2#9	2#8	1#8	—	—	4#6	D.O.	D.O.
GB 6	12	56	D.O.	D.O.	D.O.	—	—	D.O.	D.O.	D.O.
GB 7	12	56	D.O.	D.O.	D.O.	—	—	D.O.	D.O.	D.O.
GB 8	12	60	3#8	2#8	1#8	3#8	4#12	4#8	4#12	VERT. EF
GB 9	12	60	D.O.	D.O.	D.O.	—	—	D.O.	D.O.	D.O.
GB 10	12	56	1#6	2#8	1#8	—	—	4#6	4#12	TIES
GB 11	12	56	D.O.	D.O.	D.O.	—	—	D.O.	D.O.	D.O.
GB 12	12	56	D.O.	D.O.	D.O.	—	—	D.O.	D.O.	D.O.
GB 13	12	56	2#8	D.O.	D.O.	—	—	D.O.	D.O.	D.O.
GB 14	8	16	2#4	—	—	—	—	2#4	—	—

TIMBER PILE LENGTH SCHEDULE		
TOP ELEV.	BASE BID	FILE LENGTH
26.83	39	
27.33, 27.5	39	
32.33, 32.0	44	
39.25	49	



GRADE BEAM DETAILS

PILE CAP DETAILS

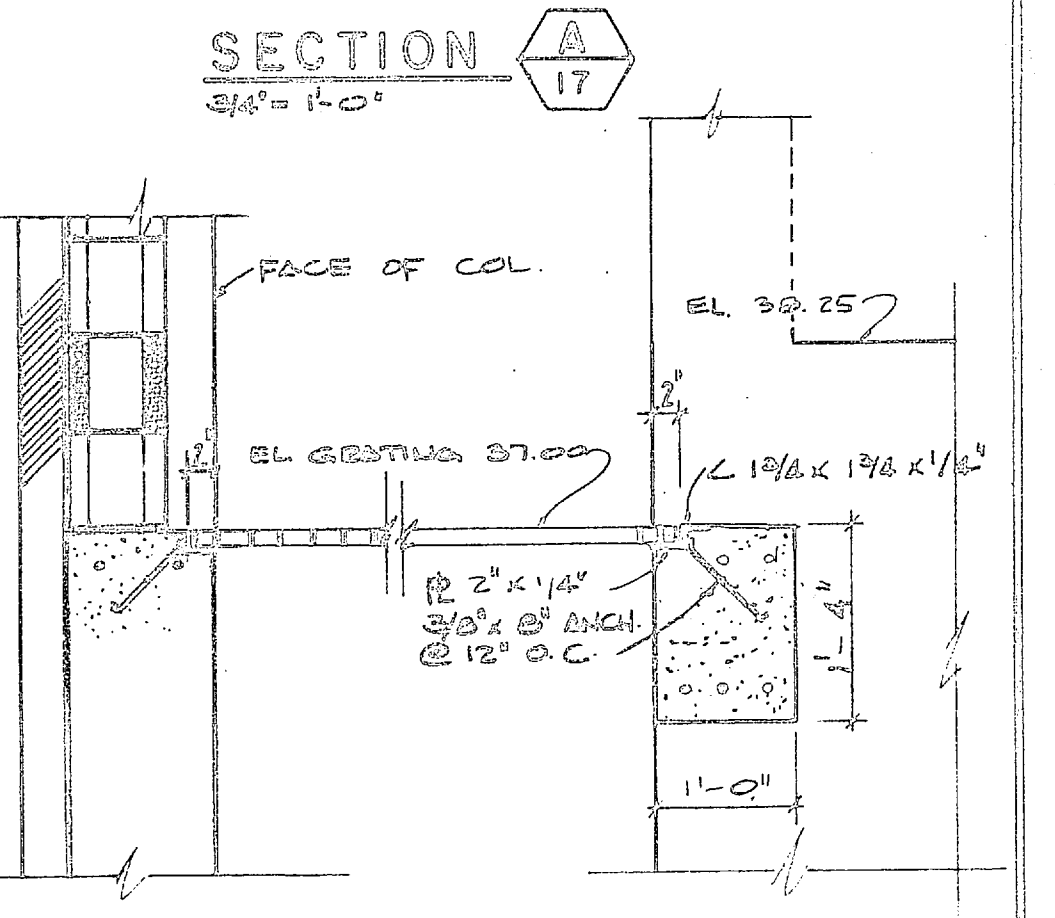
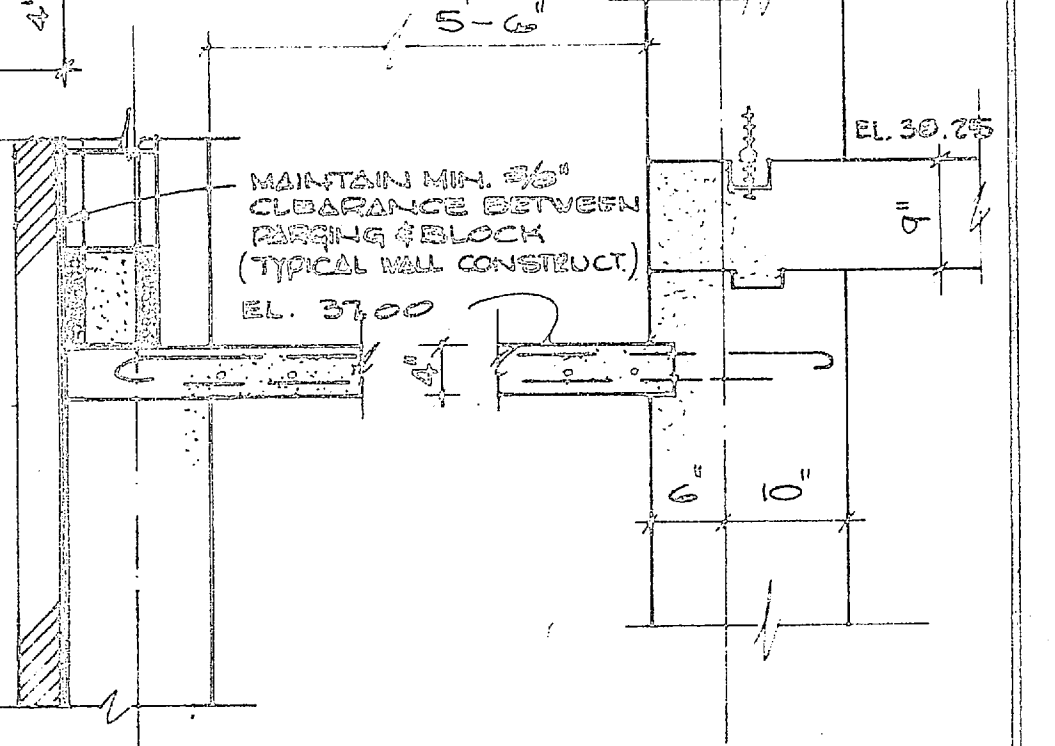
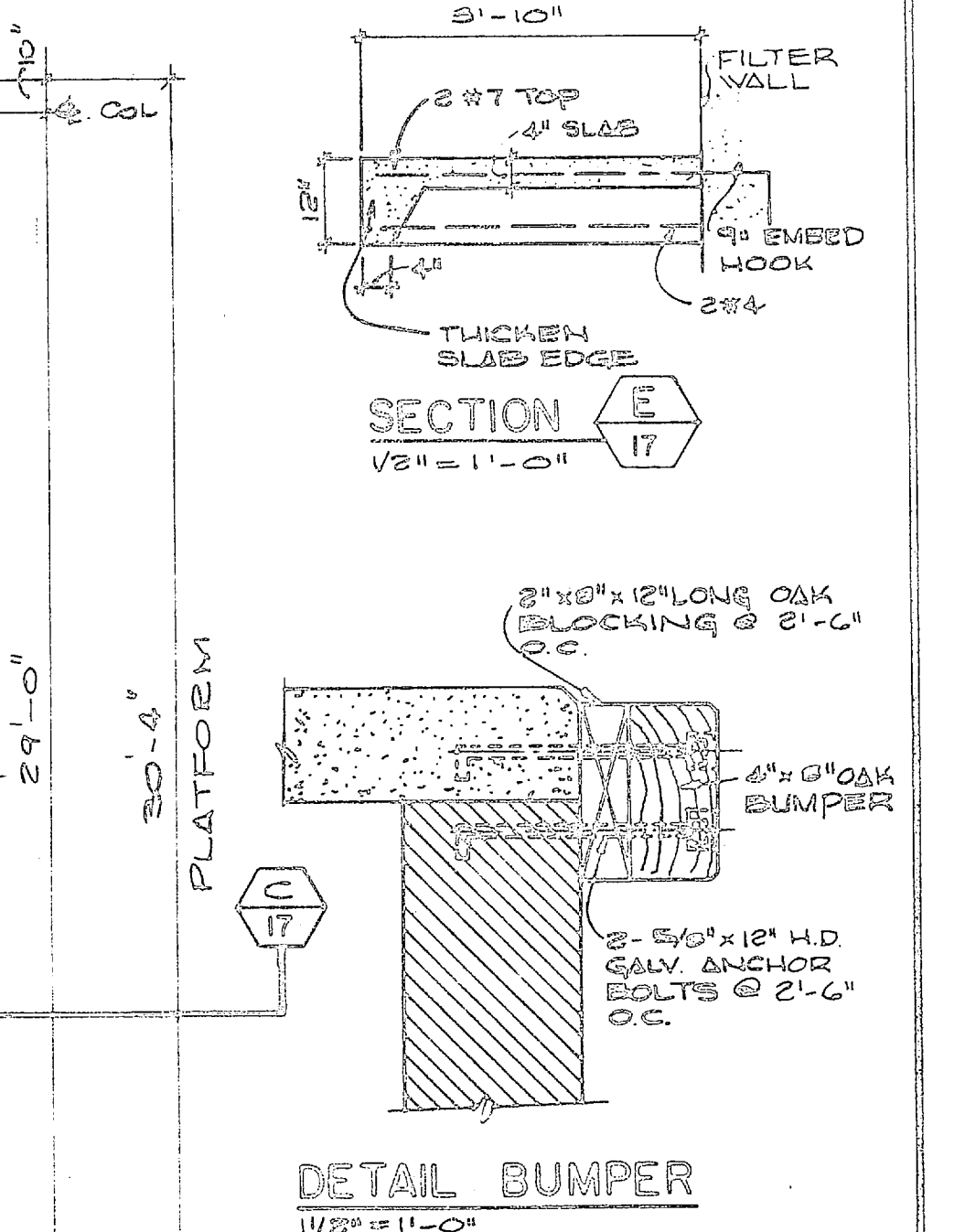
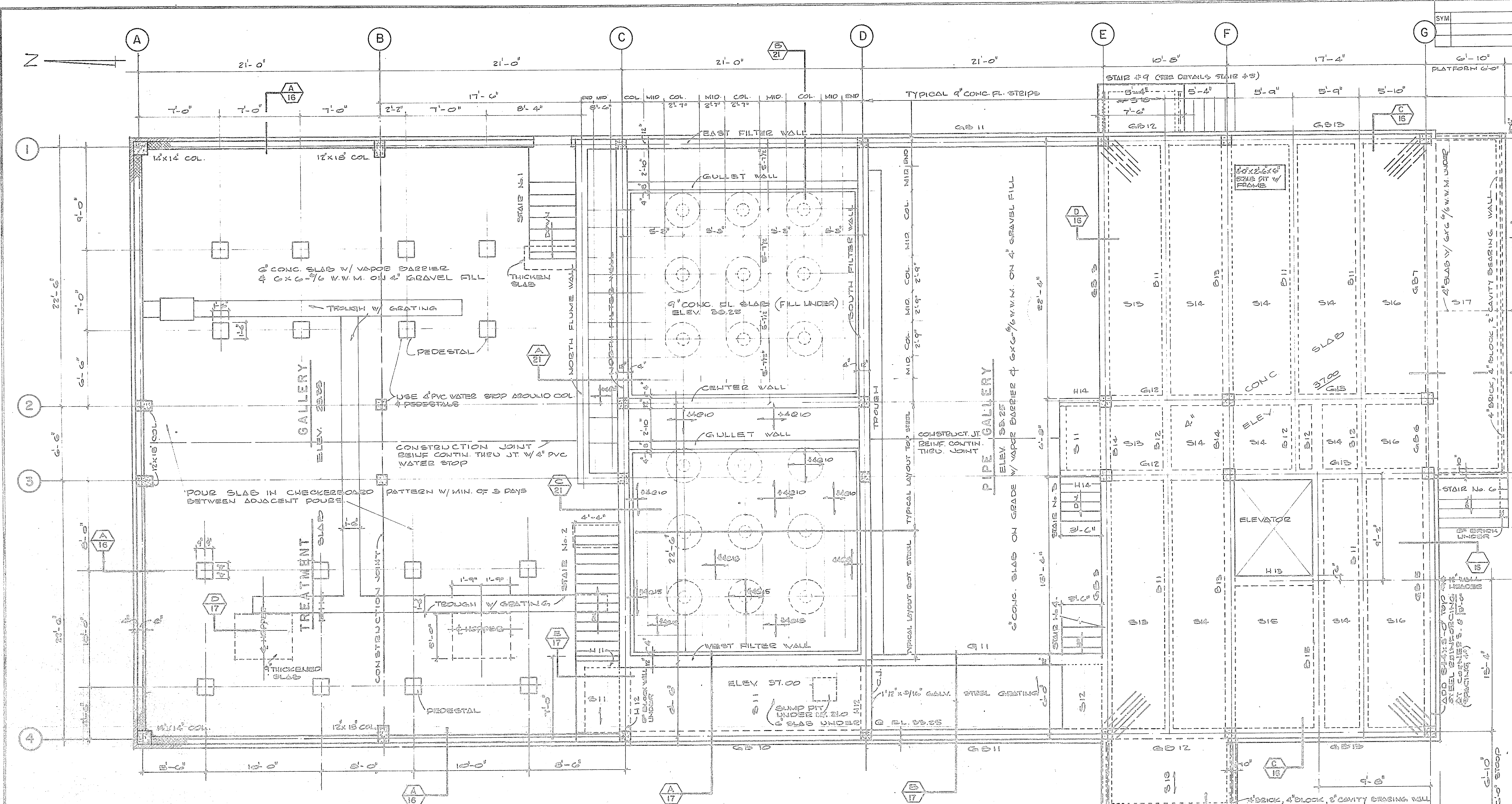
PILE CAP DETAILS

PILE CAP DETAILS

PILE CAP DETAILS

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
 ATLANTIC DIVISION NORFOLK, VA
 WATER TREATMENT PLANTS, WELLS AND DISTRIBUTION SYSTEM
 CAMP LEJEUNE, NORTH CAROLINA
 TREATMENT PLANT FOUNDATION PLAN
 SHEET 16 OF 28
 04904

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED

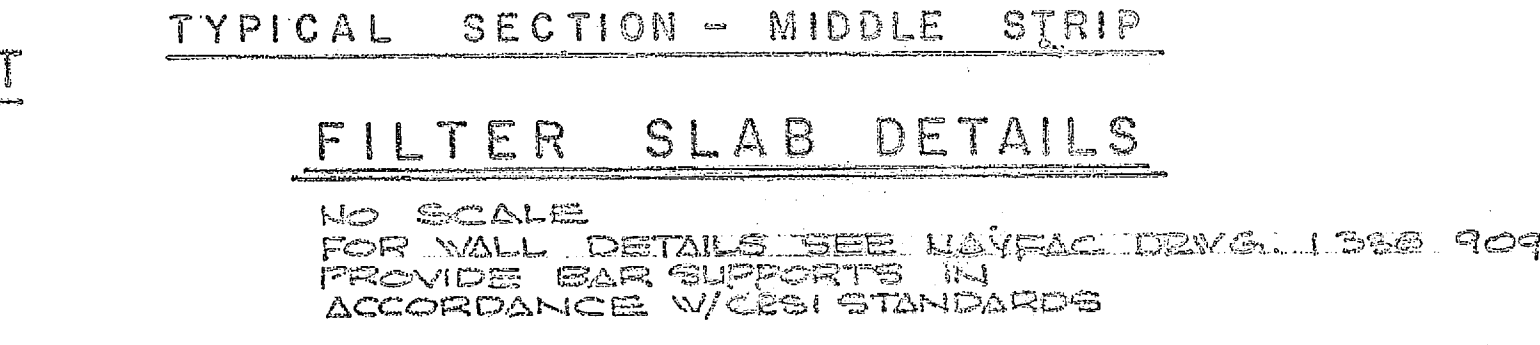
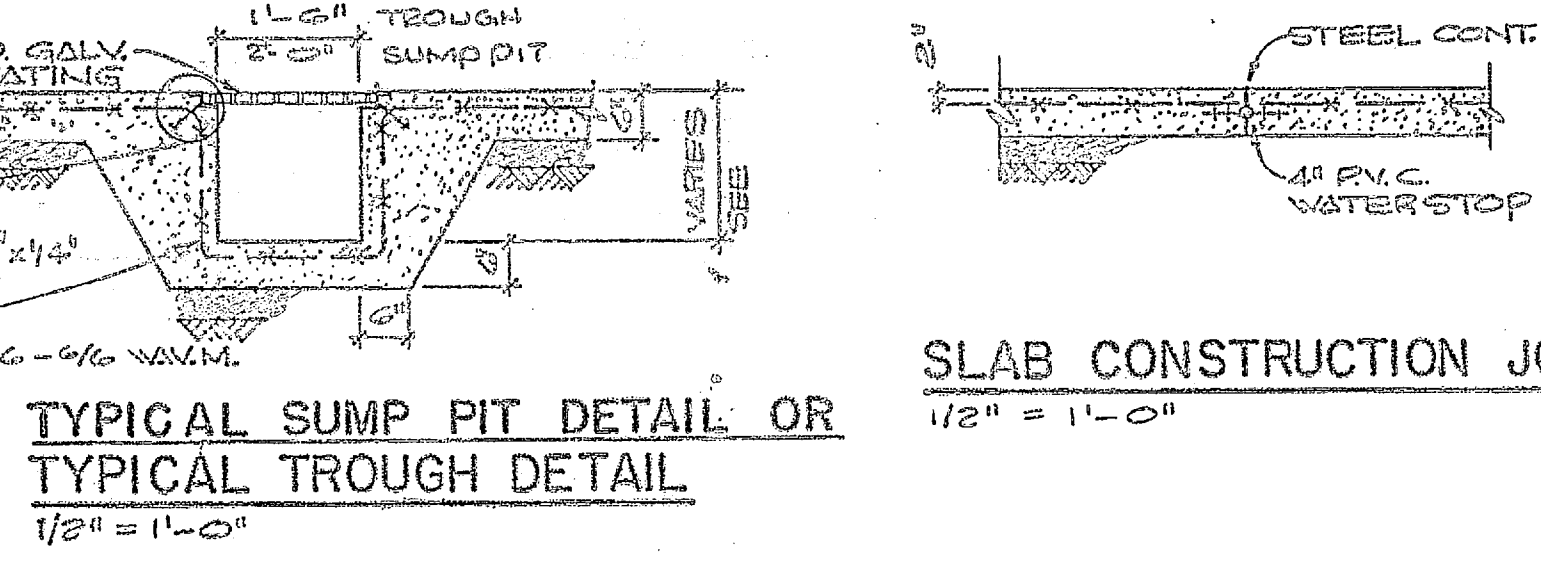
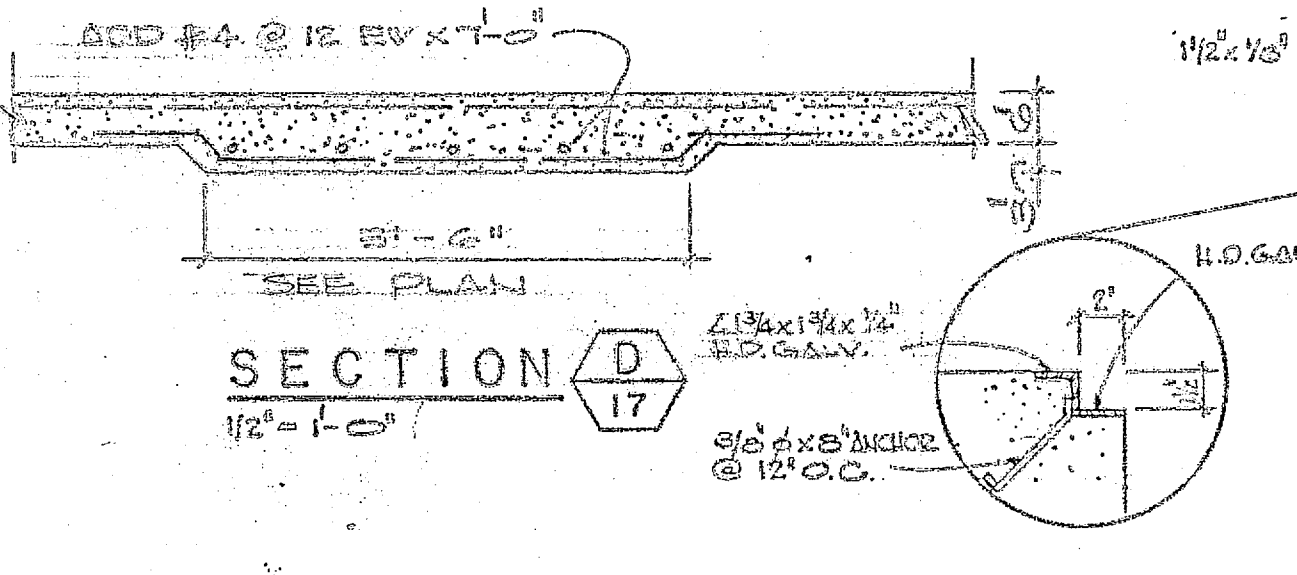
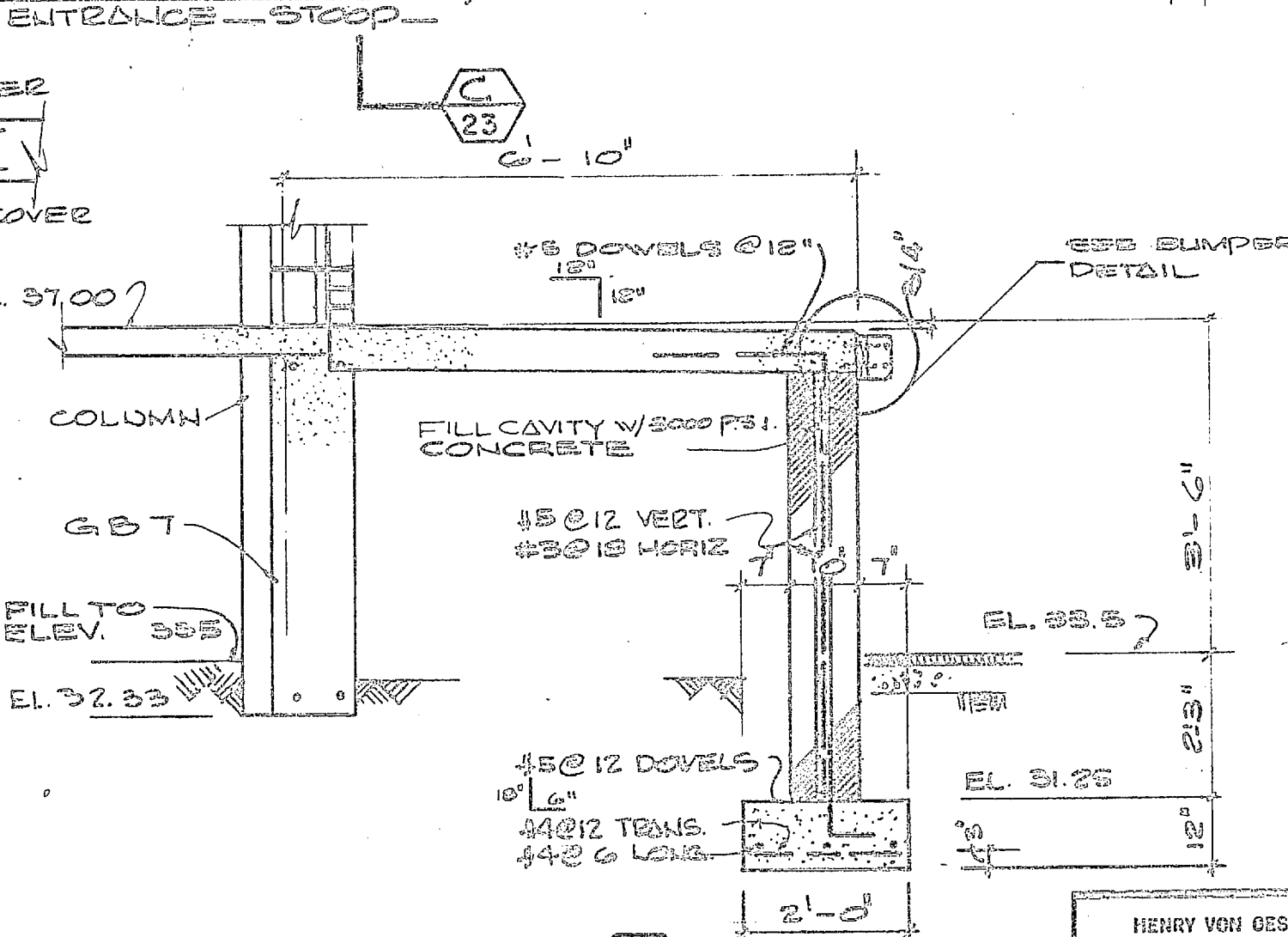
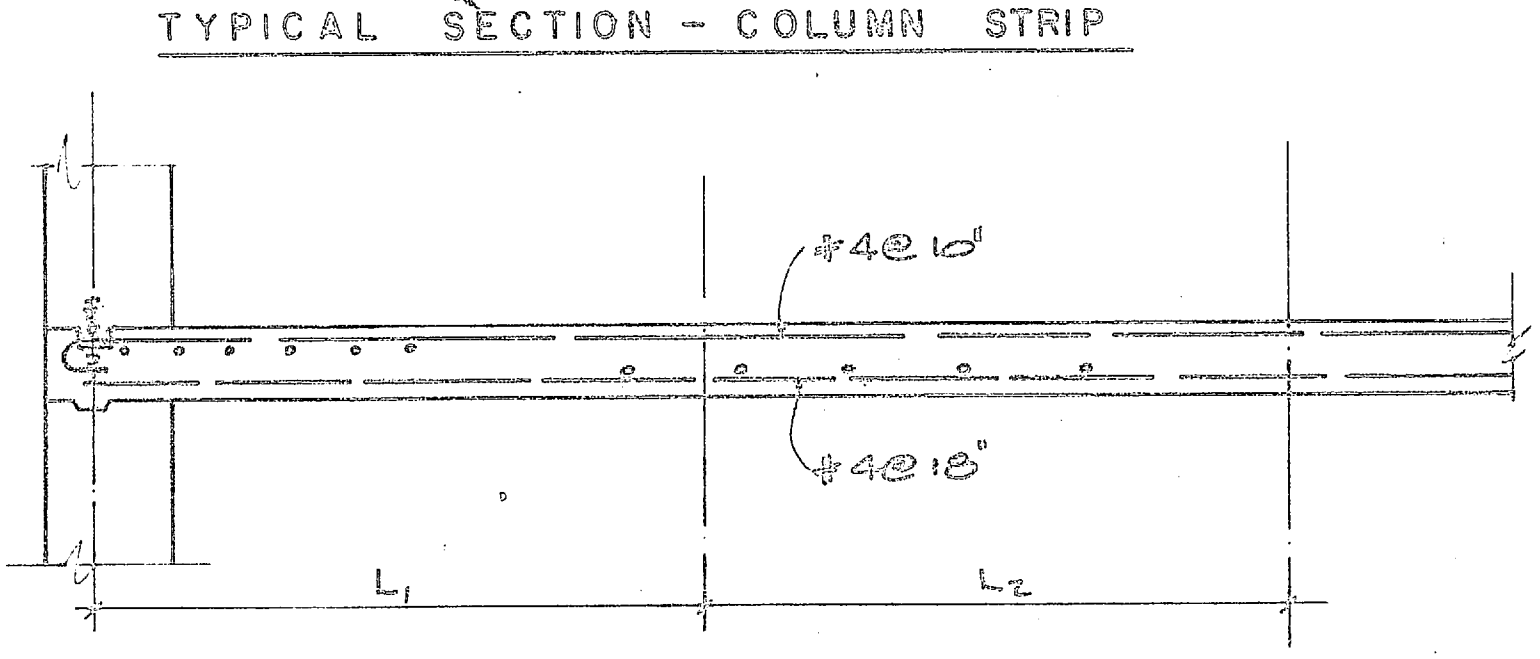
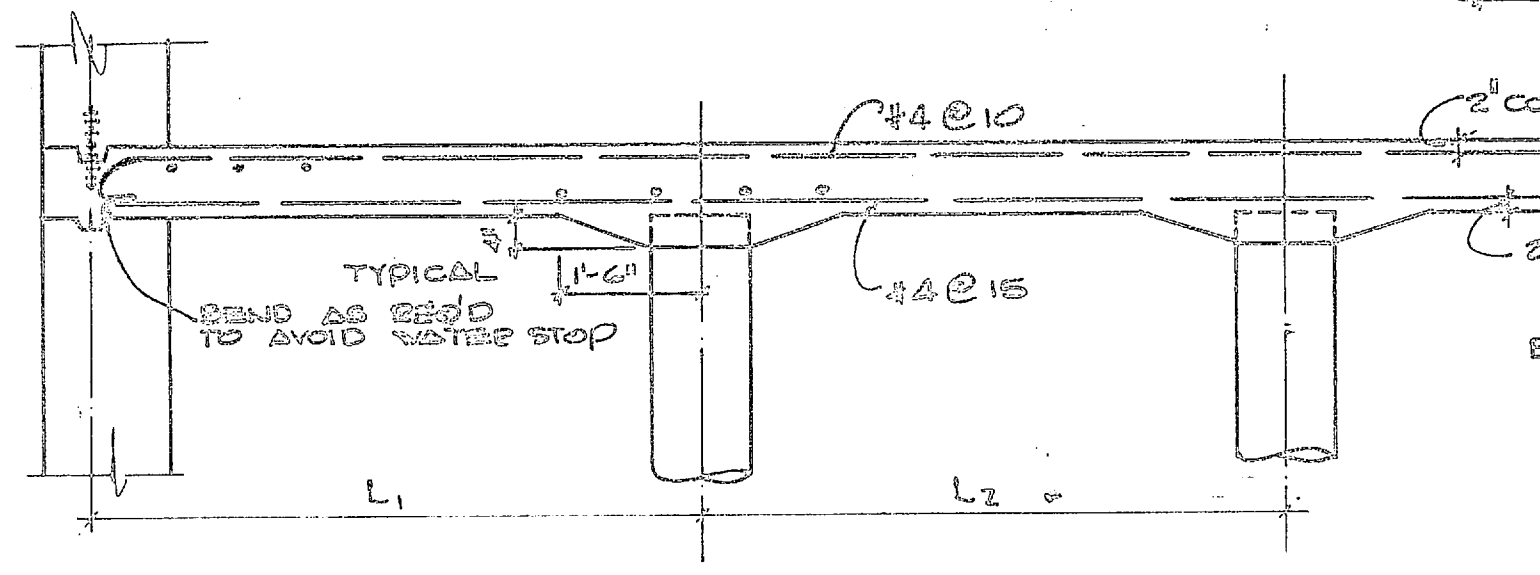


FIRST FLOOR PLAN
1/4" = 1'-0"

SLAB SCHEDULE				
MARK	DEPTH	REINFORCING		
		BOT	TRUSS	TEMP
S 11	5"	#4@12"	—	#3@12"
S 12	5 1/2"	#4@9"	—	#4@12" TOP SUPT.
S 13	4"	#3@12"	#4@12"	#4@12" TOP EXT. SUPT.
S 14	4"	DO	DO	DO
S 15	4"	#3@9"	#4@9"	DO
S 16	4"	#4@12"	#4@12"	DO
S 17	6"	#4@9"	—	#4@12" TOP CONT.
S 18	6"	#4@8"	—	#3@12" TOP CONT.

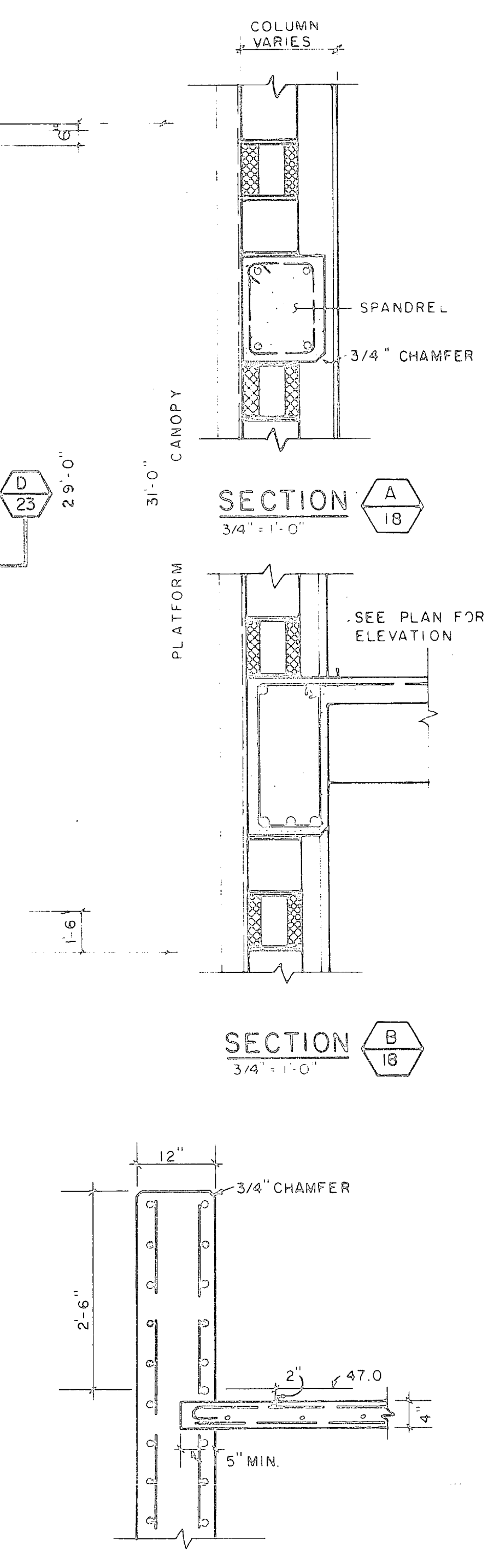
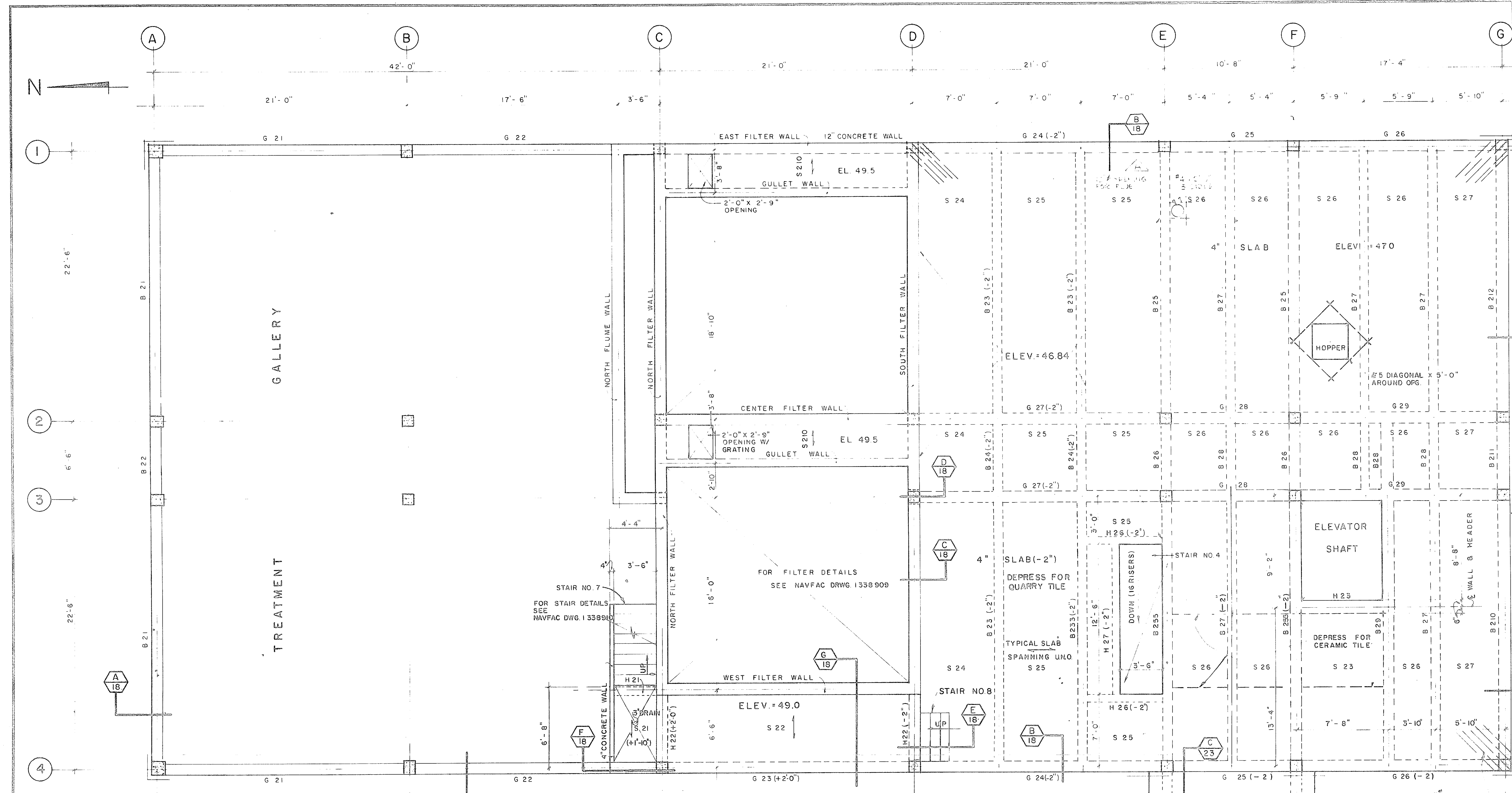
HEADER, BEAM, & GIRDER SCHEDULE						
MARK	SIZE	LONGITUDINAL REINFORCING			STIRRUPS	
		W	D	TRUSS	TOP SUPT	NO. SIZE SPACING FROM FACE OF SUPT.
H 11	12 12	2 #4	—	2 #7 CONT.	#3	163", 20"
H 12	8 12	2 #4	—	2 #4 CONT.	#3	163", REM. @ 12"
H 13	12 16	2 #4	—	2 #5 CONT.	#3	163", REM. @ 12"
H 14	8 12	2 #4	—	2 #5 CONT.	#3	163", REM. @ 12"
B 11	12 10	3 #7	1 #9	2 #4	#3	163", 15 @ 8", REM. @ 12"
B 12	12 10	2 #4	—	2 #8 CONT.	#3	163", REM. @ 12"
B 13	12 16	2 #7	1 #9	2 #8	#3	163", 14 @ 8", REM. @ 12"
B 14	12 16	2 #4	—	2 #8 CONT.	#3	163", REM. @ 12"
B 15	12 24	2 #9, 2 #7	1 #10	2 #5	#3	163", 8 #10", REM. @ 20"
G 11	12 16	1 #7, 3 #8	—	2 #5 CONT.	#3	163", 20 @ 8", REM. @ 20"
G 12	12 24	2 #5	1 #7	2 #4	#3	163", 1/2", 8 @ 8", REM. @ 20"
G 13	12 24	3 #7	1 #9	2 #9-2 #4	#3	163", 1/2", 9 #9", 8 @ 10", REM. @ 20"

FOR GRADE BEAM SCHEDULE SEE NAVFAC DRWG. 1338 904
FOR TYPICAL BENDING DETAILS SEE NAVFAC DRWG. 1338 908
FOR STAIR DETAILS SEE NAVFAC DRWG. 1338 910



	HENRY WOU OSETH & ASSOCIATES CONSULTING ENGINEERS WASHINGTON, D.C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NORFOLK, VA.	
	DES. J.R.B. E.S.A.W. CHL. C.D.		WATER TREATMENT PLANTS, WELLS AND DISTRIBUTION SYSTEM	
	SUPV. H.V.O. CH. J.R.B.		CAMP LEJEUNE, NORTH CAROLINA	
	DATE: 10/27/50		TREATMENT PLANT FIRST FLOOR FRAMING PLAN	
	APPROVED: [Signature]		NAVFAC DRAWING NO. 80091 1338 905	

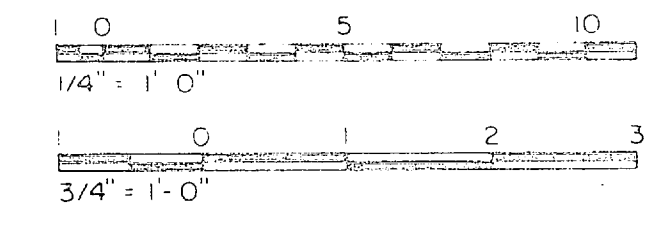
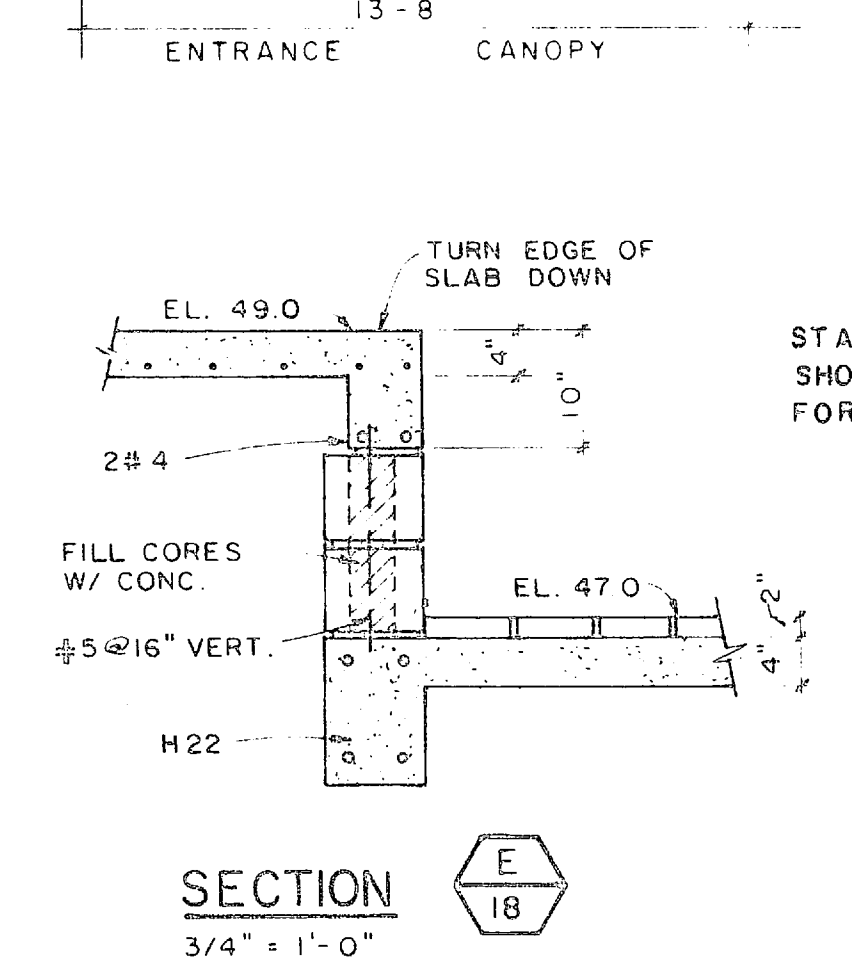
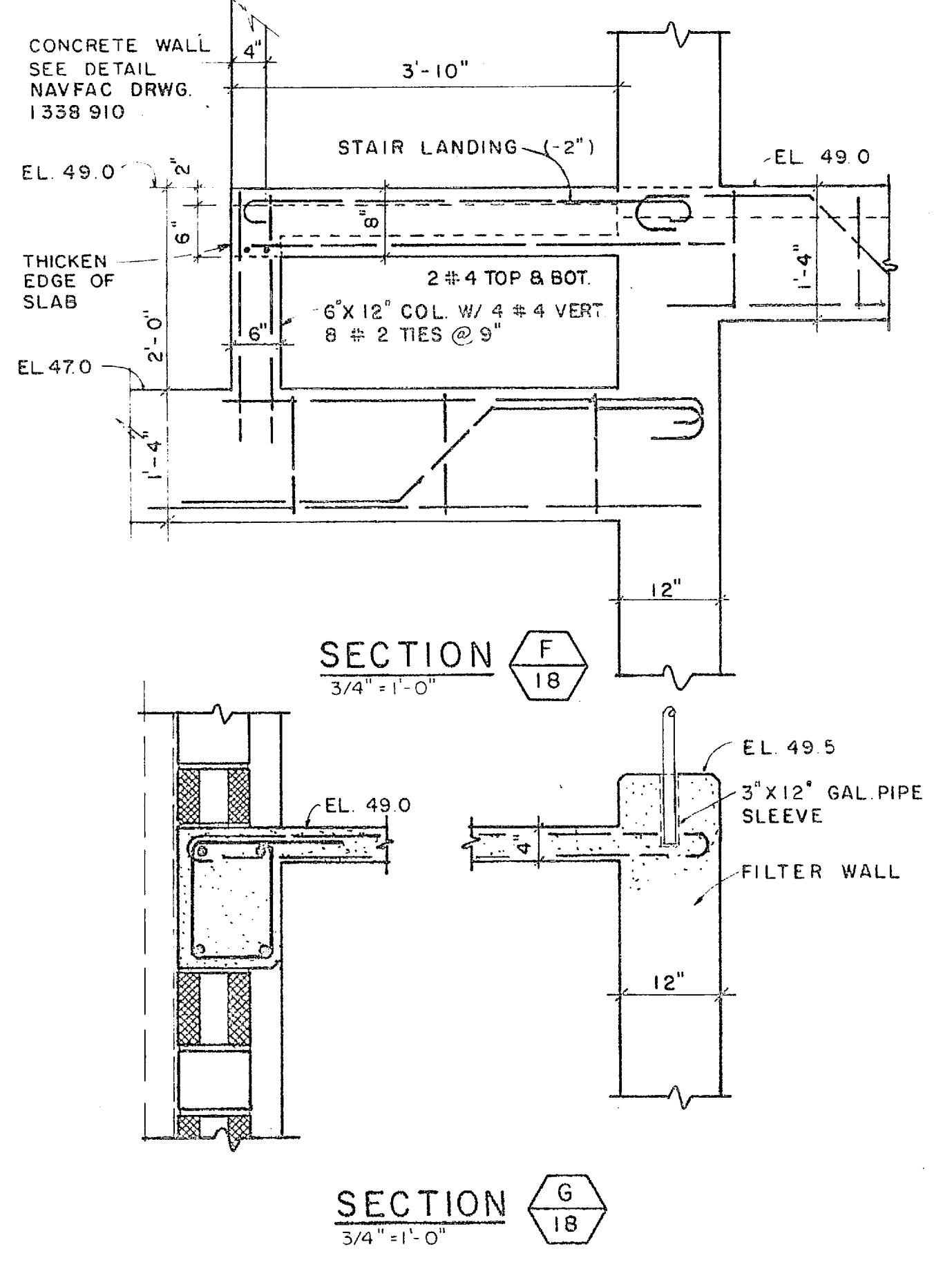
SYM	DESCRIPTION	DATE	APPROVED
A	ADDED FLOOR OPENING ON FLOOR PLAN	8-17-1960	J.A.



SECOND FLOOR PLAN
1/4" = 1'-0"

MARK	DEPTH	REINFORCING			REMARKS
		BOT	TRUSS	TEMP	
S 21	4"	# 4 @ 12"	# 3 @ 12" TOP # 3 @ 12"	DO	ADD 2# 4 BOT @ 8" EDGE
S 22	4"	# 4 @ 12"	DO	DO	TOP BARS EA END
S 23	4"	# 3 @ 9"	# 4 @ 9"	DO	
S 24	4"	# 3 @ 12"	# 4 @ 12"	DO	# 4 @ 12" TOP EXT SUPT
S 25	4"	DO	DO	DO	
S 26	4"	DO	DO	DO	
S 27	4"	DO	DO	DO	# 4 @ 12" TOP
S 28	5"	DO	DO	DO	# 4 @ 12" TOP, TAPER SLAB TO 3" EXT END
S 29	4"	# 4 @ 8"	DO	DO	# 3 @ 12" TOP
S 210	4"	# 4 @ 12"	DO	DO	# 4 @ 12" TOP

MARK	SIZE	REINFORCING				STIRRUPS
		W	D	LONGITUDINAL	TRUSS	
H 21	8 x 12	2 @ 4		2 @ 4	2 @ 4	# 3
H 22	8 x 12	2 @ 4		2 @ 4	2 @ 4	# 3
H 23	12 x 16	2 @ 4		2 @ 4	2 @ 4	# 3
H 24	12 x 12	2 @ 4		4 @ 5	4 @ 5	# 3
H 26	12 x 16	2 @ 7		2 @ 4	2 @ 4	# 3
H 27	8 x 16	2 @ 5		2 @ 4	2 @ 4	# 3
B 21	12 x 16	2 @ 4	1 @ 5	2 @ 5	2 @ 5	# 3
B 22	12 x 16	2 @ 4		2 @ 4	2 @ 4	# 3
B 23	12 x 16	2 @ 8	1 @ 9	2 @ 4	2 @ 4	# 3
B 24	12 x 16	2 @ 8		2 @ 7	2 @ 7	# 3
B 25	12 x 16	2 @ 7	1 @ 8	2 @ 7	2 @ 7	# 3
B 26	12 x 16	2 @ 7		2 @ 7	2 @ 7	# 3
B 27	12 x 16	2 @ 8	1 @ 10	2 @ 4	2 @ 4	# 3
B 28	12 x 16	2 @ 8		2 @ 7	2 @ 7	# 3
B 29	12 x 16	2 @ 11	1 @ 10	2 @ 7	2 @ 7	# 3
B 210	12 x 16	3 @ 6	1 @ 8	2 @ 6	2 @ 6	# 3
B 211	12 x 16	3 @ 6		2 @ 9	2 @ 9	# 3
B 212	12 x 16	3 @ 6	1 @ 9	2 @ 7	2 @ 7	# 3
B 233	12 x 16	2 @ 10	1 @ 9	2 @ 5	2 @ 5	# 3
B 255	12 x 18	2 @ 8	1 @ 8	2 @ 7	2 @ 7	# 3
G 21	12 x 16	2 @ 4	1 @ 5	2 @ 5	2 @ 5	# 3
G 22	12 x 16	2 @ 4	1 @ 4	2 @ 5	2 @ 5	# 3
G 23	12 x 16	2 @ 4	1 @ 6	2 @ 6	2 @ 6	# 3
G 24	12 x 24	2 @ 7	1 @ 7	2 @ 7	2 @ 7	# 3
G 25	12 x 24	2 @ 4	1 @ 4	3 @ 7	3 @ 7	# 3
G 26	12 x 24	2 @ 7	1 @ 7	2 @ 7	2 @ 7	# 3
G 27	12 x 24	2 @ 9	1 @ 11	2 @ 6	2 @ 6	# 3
G 28	12 x 24	2 @ 4	1 @ 5	3 @ 8	3 @ 8	# 3
G 29	12 x 24	3 @ 8	1 @ 10	2 @ 10	2 @ 10	# 3



DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NORFOLK, VA

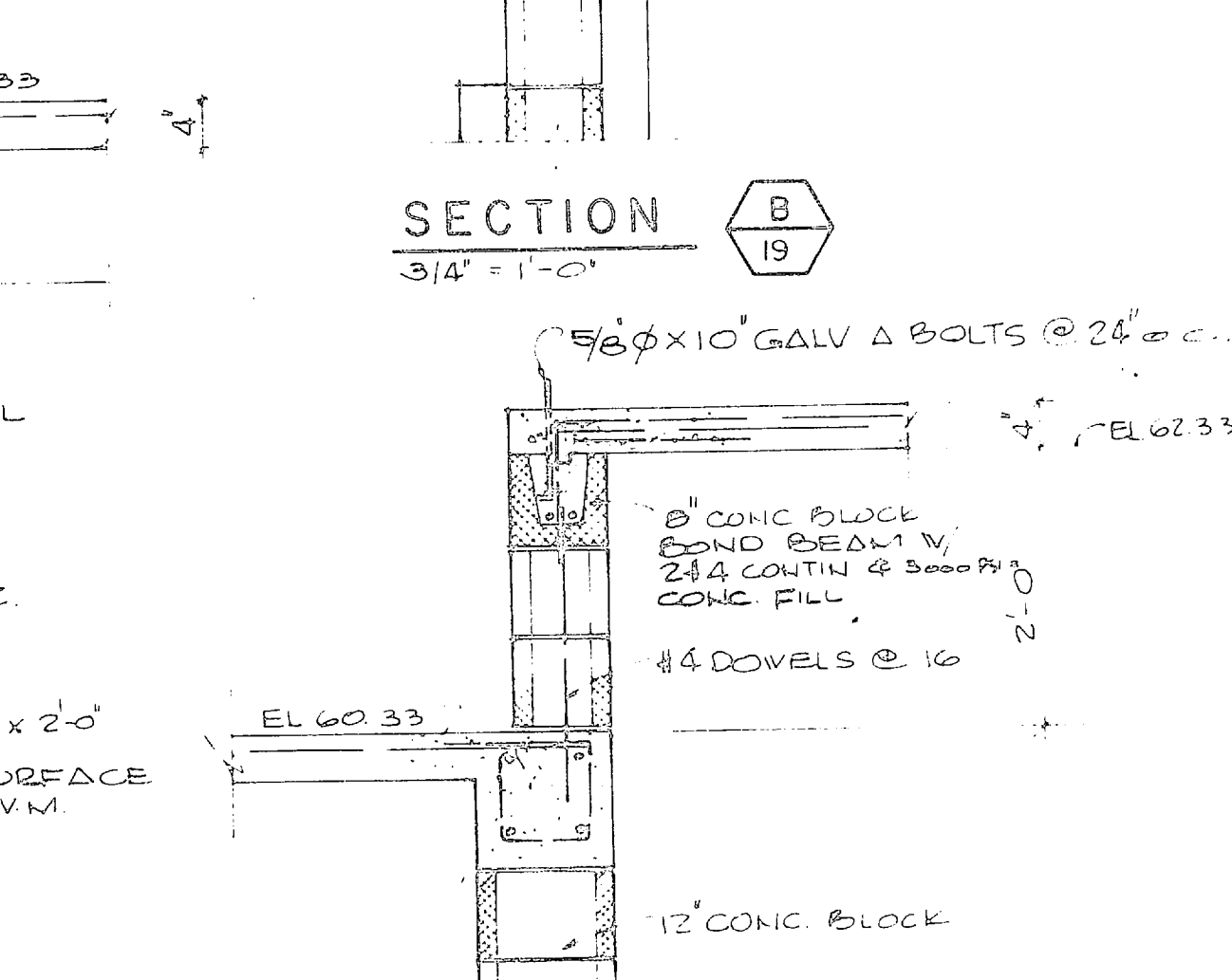
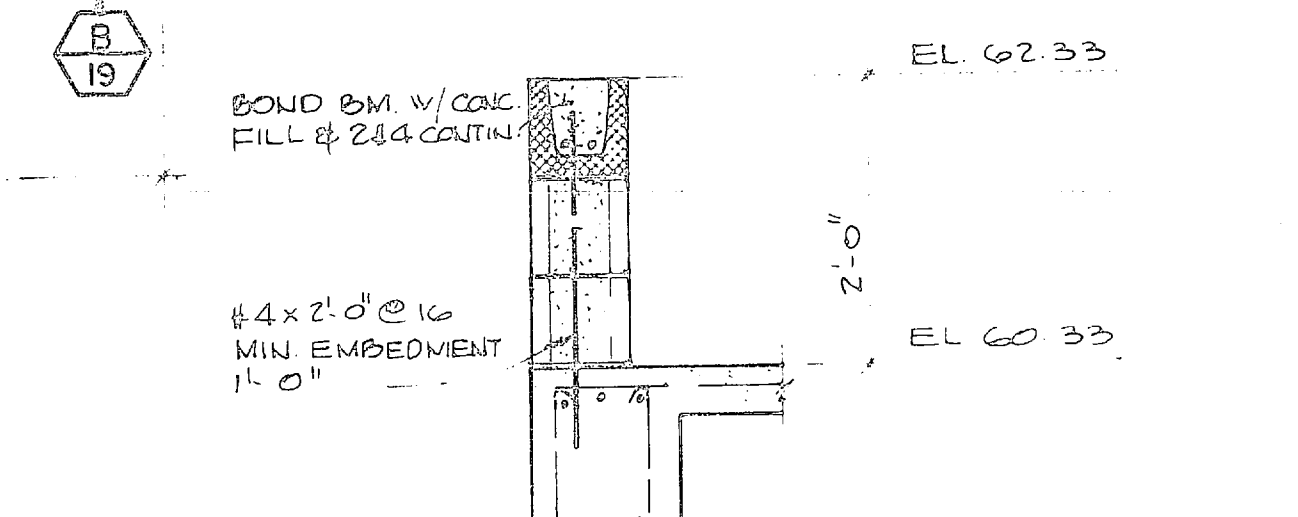
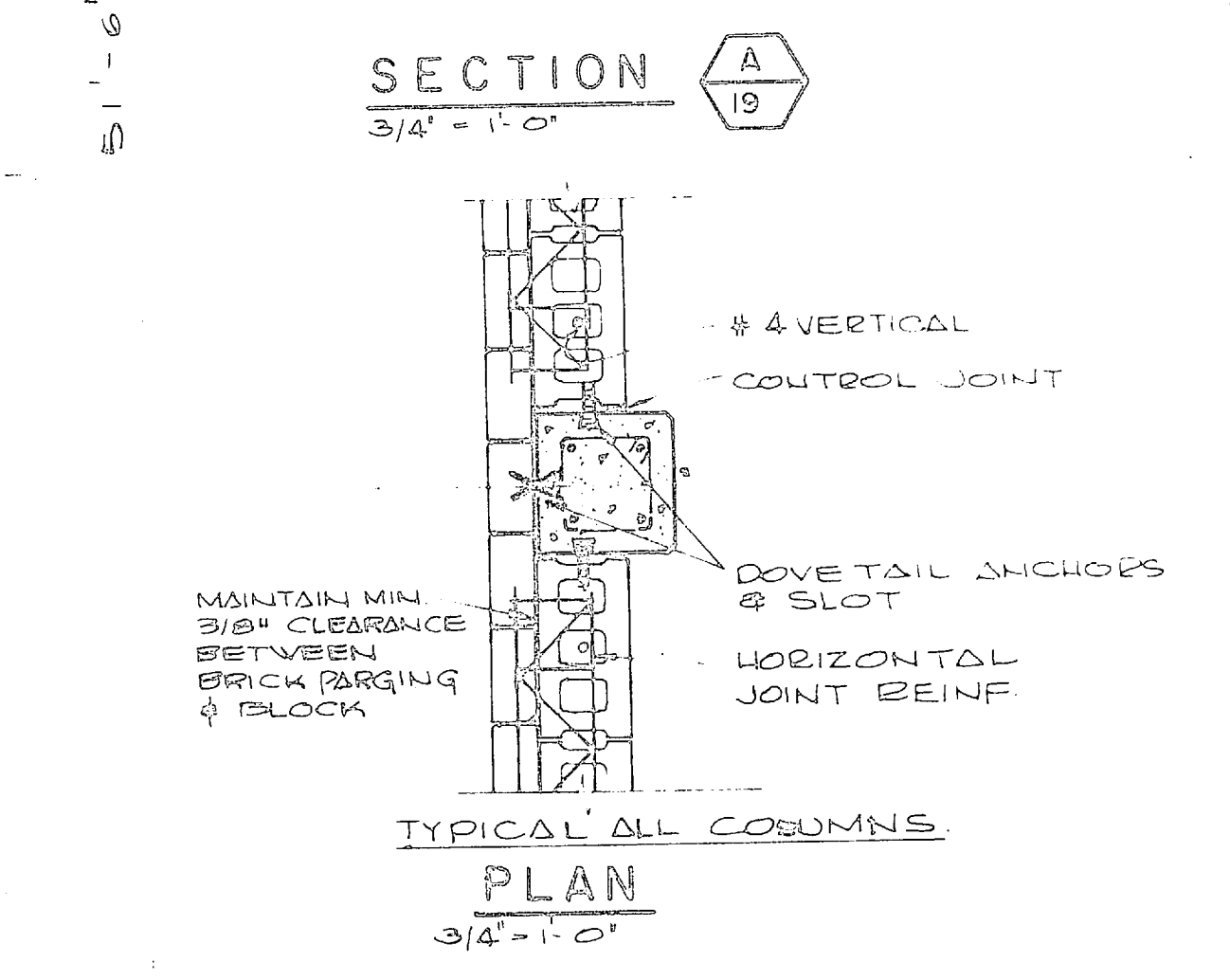
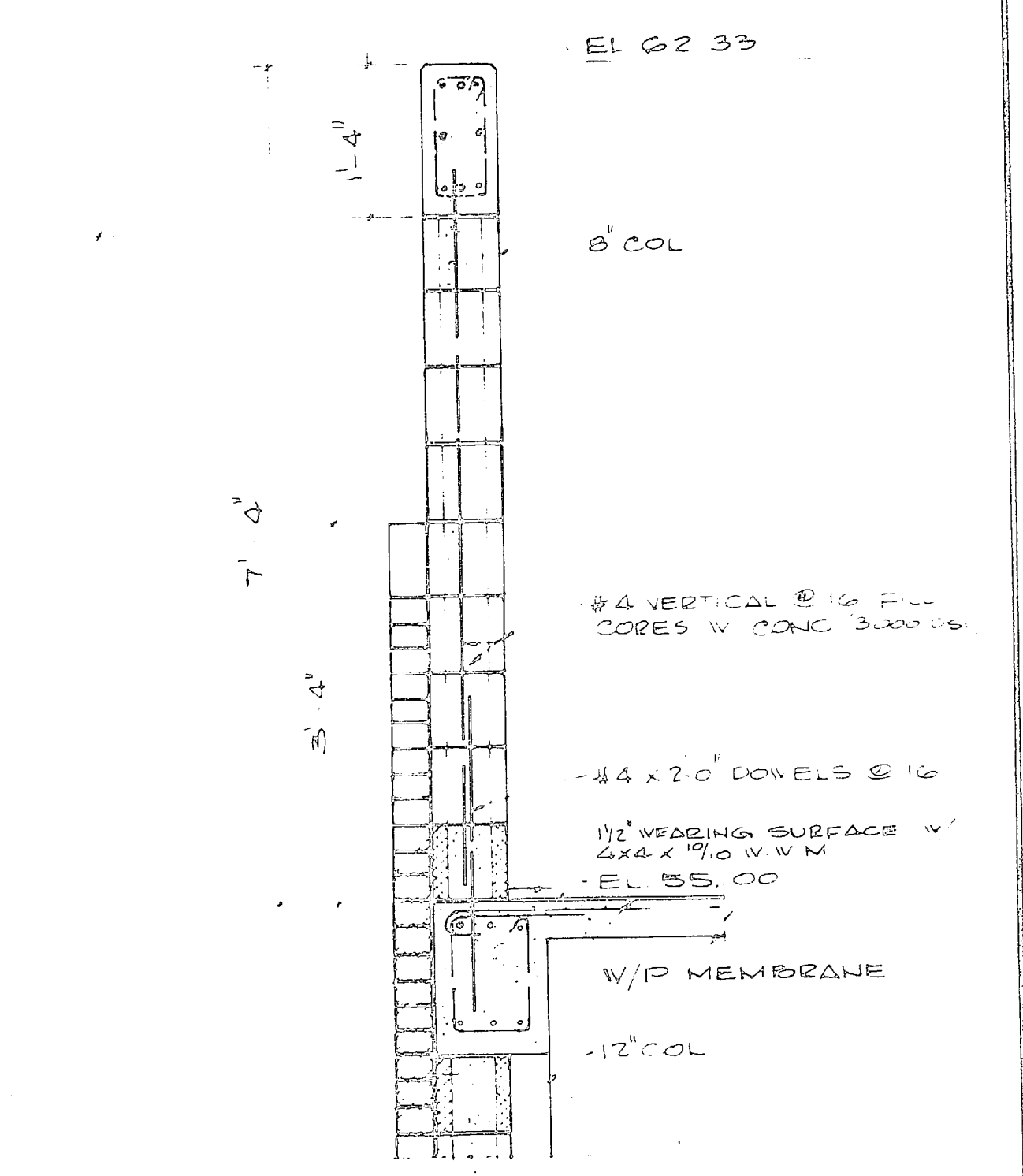
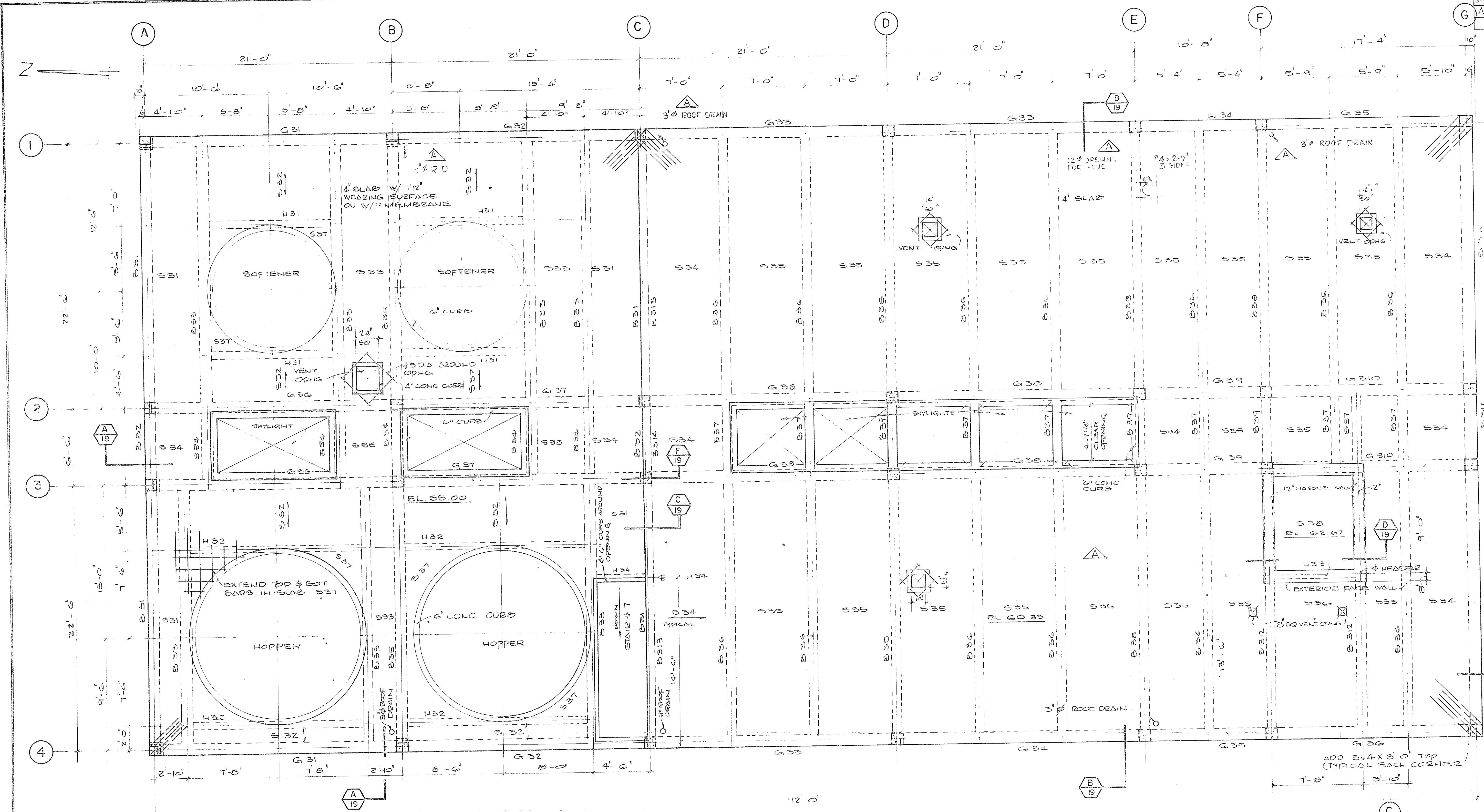
WATER TREATMENT PLANTS, WELLS AND DISTRIBUTION SYSTEM
LEUENE NORTH CAROLINA
TREATMENT PLANT
SECOND FLOOR FRAMING PLAN

80091 1338 906

05-70-0939

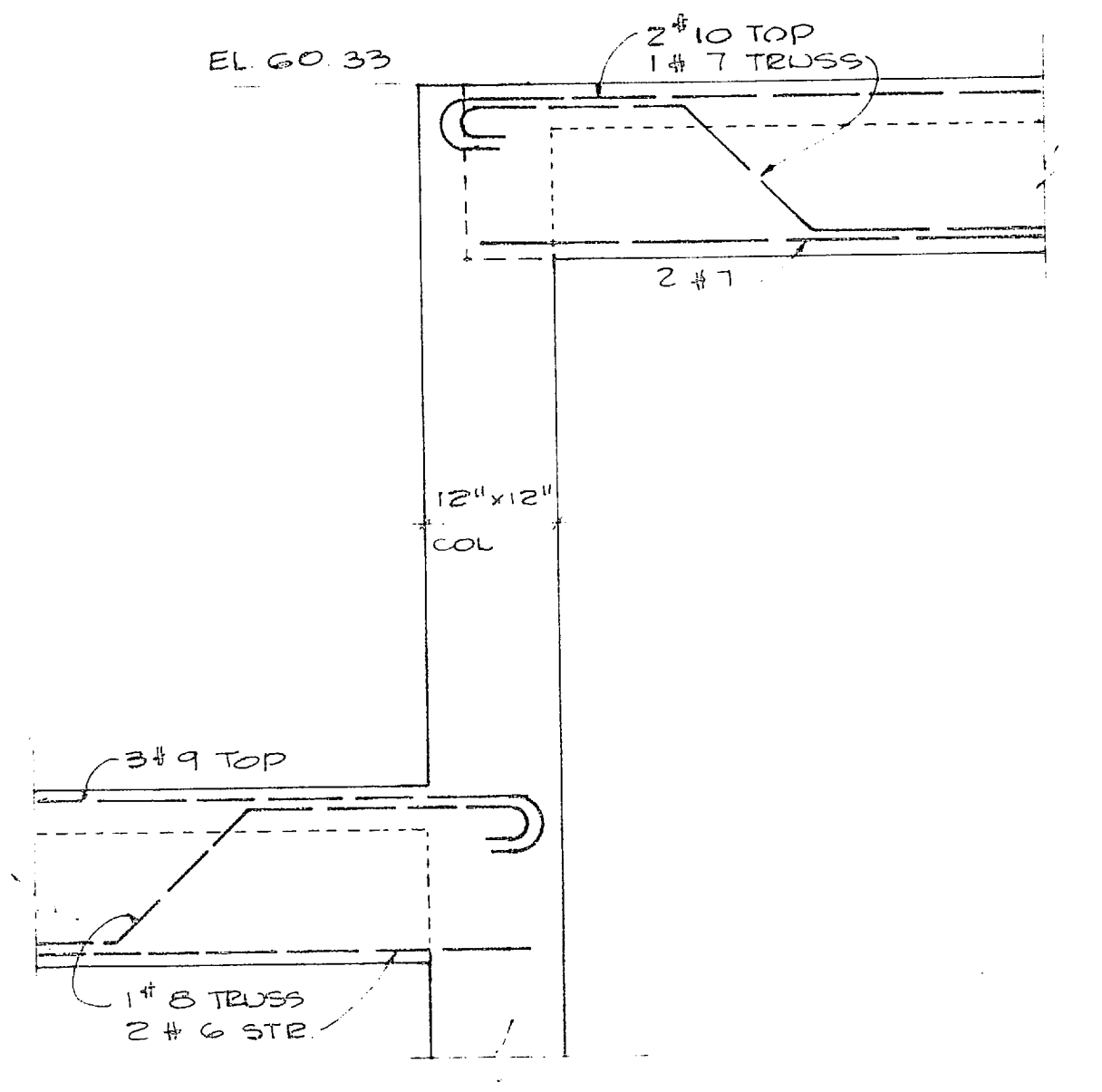
84906

REVISIONS			DATE	APPROVED
SYM	DESCRIPTION			
A	ADDED FLOOR OPENING & ROOF DRAINS & ELECTRICAL NOTE		8/17/70	JFB



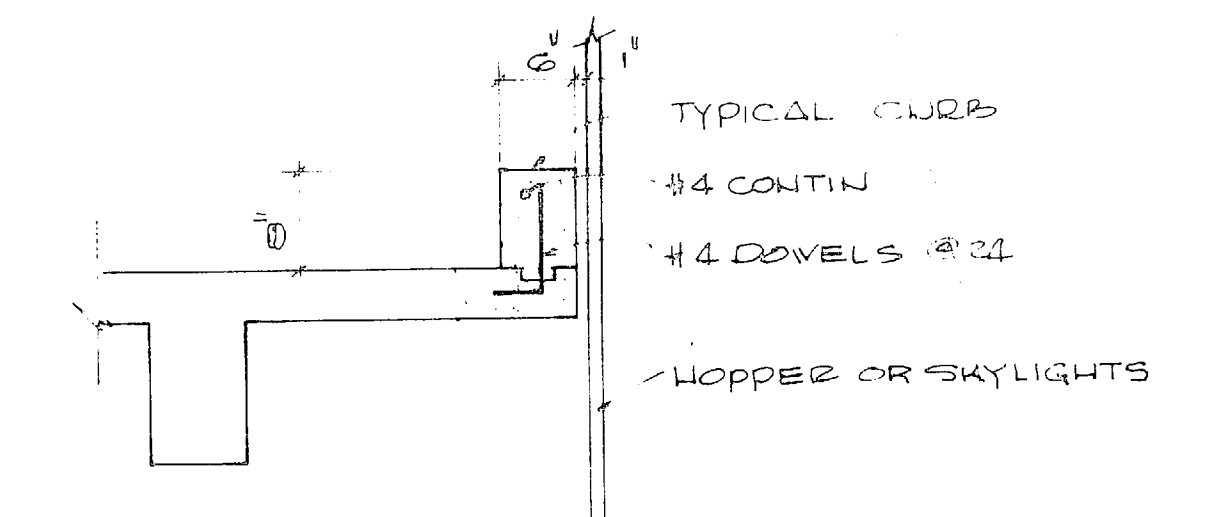
ROOF FRAMING PLAN

NOTE: COORDINATE ALL ROOF OPNS. W/MECH CONTR.



HEADER, BEAM, & GIRDER SCHEDULE

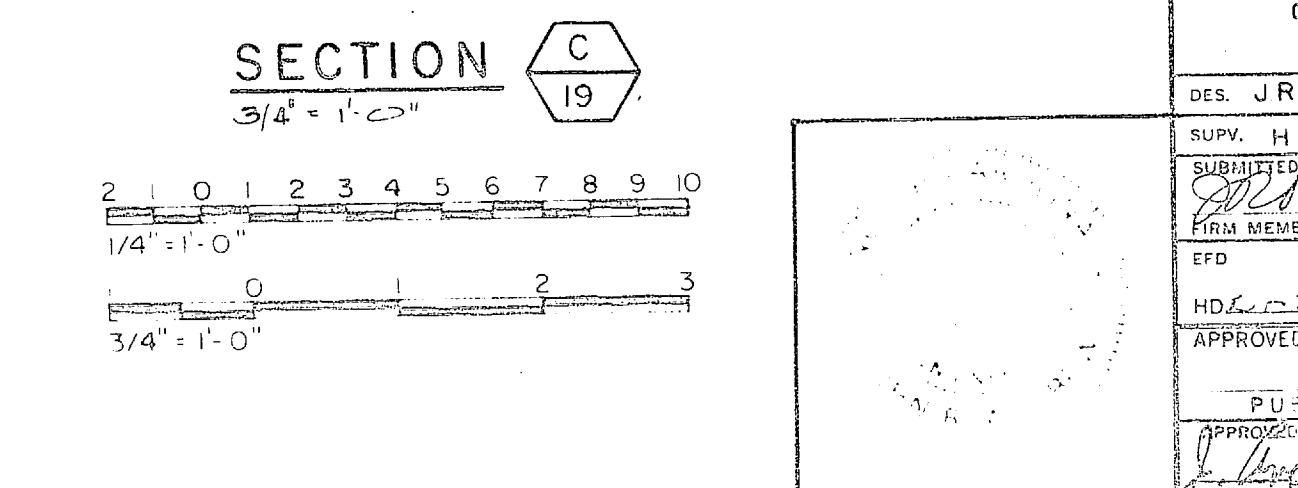
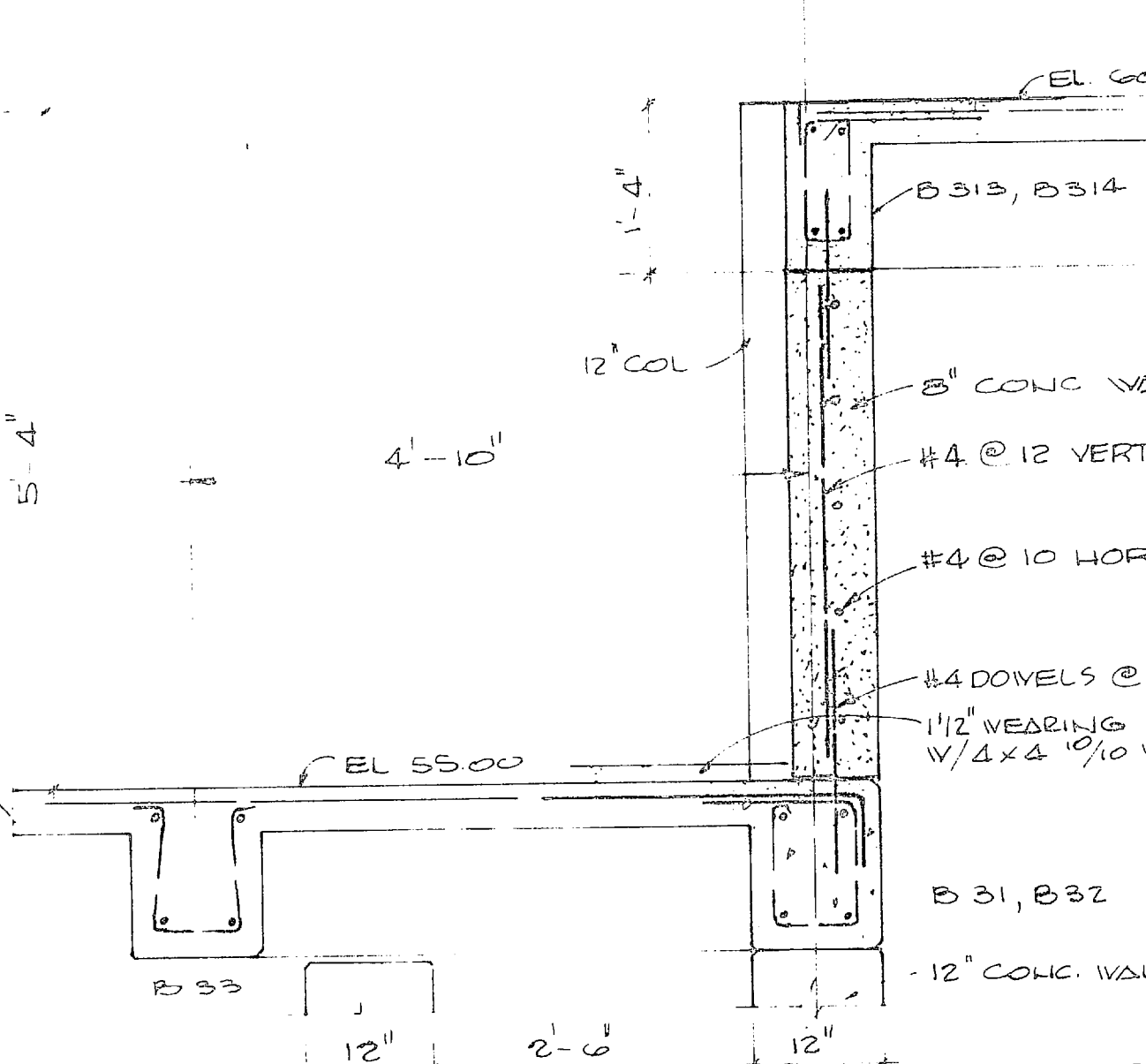
MARK	SIZE	REINFORCING			
		LONGITUDINAL		STIRRUPS	
	W D	BOTTOM	TRUSS TOP@SUPT	NO SIZE	SPA FROM FACE OF SUPT.
H 31	8 12	2 # 5	ADD 2# 4 CON	# 3	1@3", REMAIN @10"
H 32	8 12	2 # 6	DO	# 3	DO
H 33	8 12	2 # 5	DO	# 3	DO
H 34	8 12	2 # 5	DO	# 3	DO
B 31	12 16	2 # 5	2 # 5	2# 4 END	# 3 1SPA @3", REMAIN @12"
B 32	12 16	2 # 5			DO
B 33	12 16	2 # 5		2# 5 EA END	# 3 1@3", 2@6", REMAIN @12"
B 34	12 16	3# 7		2# 5 EA END	# 3 1@3", REMAIN @12"
B 35	12 16	3# 7	2 # 5	2# 5	# 3 1@3", 2@6", REMAIN @12"
B 36	10 12	2# 7	1# 8	2# 4 EA END	# 3 1@2", 17 @ 4" REM @ 9"
B 37	10 12	2# 7		1# 8 CONT	# 3 1@2", REMAIN @ 9"
B 38	10 12	2# 5	2# 7	1# 4 EA END	# 3 1@2", 13 @ 4" REM @ 9"
B 39	10 12	2# 5			# 3 1@2" REMAIN @ 9"
B 310	12 16	2 # 4	1 # 6	2 # 4 EA END	# 3 1@3" REMAIN @ 12"
B 311	12 16	2 # 4		2 # 4 CONT	# 3 DO
B 312	10 12	2 # 6	1 # 6		# 3 1@2", 13 @ 4" REMAIN @ 9"
G 31	12 16	2 # 6	1 # 8	1 # 6	# 3 1@3", 12 @ 6" REM @ 12"
G 32	12 16	2 # 6	1 # 8	3# 8 - 3# 8	# 3 DO
G 33	12 16	2 # 5	1 # 7	3# 8	# 3 1@3", REMAIN @ 12"
G 34	12 16	2 # 4	1 # 4	2# 8	# 3 DO
G 35	12 16	2 # 5	1 # 7	2# 6 - 2# 4	# 3 DO
G 36	12 16	2 # 6	1 # 8	1# 6	# 3 1@3", 12 @ 6" REM @ 12"
G 37	12 16	2 # 6	1 # 8	2# 9 - 3# 9	# 3 DO
G 38	12 16	2 # 7	1 # 7	2# 10	# 3 DO
G 39	12 16	2 # 4	1 # 4	3# 7	# 3 1@3", REMAIN @ 12"
G 310	12 16	2 # 7	1 # 8	1# 11 - 1# 6	# 3 1@3", 12 @ 6" REM @ 12"



FOR TYPICAL BENDING DETAILS SEE NAVFAC DRWG No 1 338 908

SLAB SCHEDULE

MARK	DEPTH	REINFORCING			REMARKS
		BOTTOM	TRUSS	TEMP	
S 31	4"	# 3 @ 12"		# 3 @ 12"	# 3 @ 12" TOP EA END
S 32	DO	DO		DO	DO
S 33	DO	DO		DO	DO
S 34	DO	# 3 @ 12"	# 4 @ 12"	# 3 @ 12"	# 4 @ 12" TOP WALL END
S 35	DO	DO	DO	DO	DO
S 36	DO	# 4 @ 12"	# 4 @ 12"	# 3 @ 12"	DO
S 37	DO	EXTEND TOP & BOT REINF FROM ADJ SLABS INTO S 37			
S 38	DO	# 4 @ 8"		# 3 @ 12"	# 3 @ 8" TOP EA END



HENRY WOOD DESIGN & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, N. C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NORFOLK, VA	
DES. J.R.A.	OR A.W.	CHK. G.C.C.	
WATER TREATMENT PLANTS, WELLS AND DISTRIBUTION SYSTEM			
CAMP LEJEUNE, NORTH CAROLINA			
TREATMENT PLANT ROOF FRAMING PLAN			
APPROVED	DATE	PROJECT NO.	80091
PUBLIC WORKS OFFICER		CONTRACT NO.	1338 907
DATE		CONTRACT COUNTY	NO 2470-70-B-0939
SCALE	SHEET	DATE	05-70-0939
			84907

