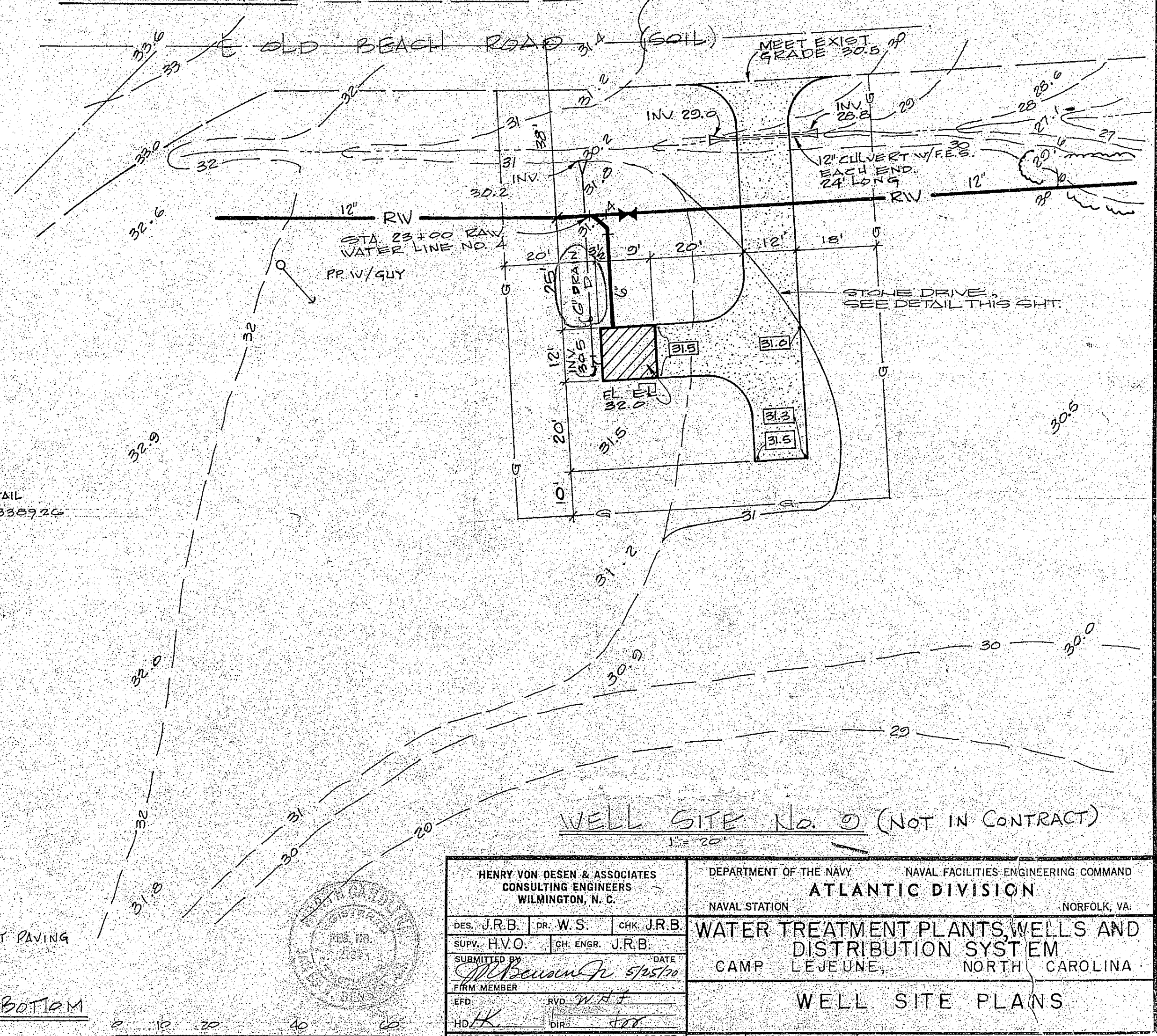
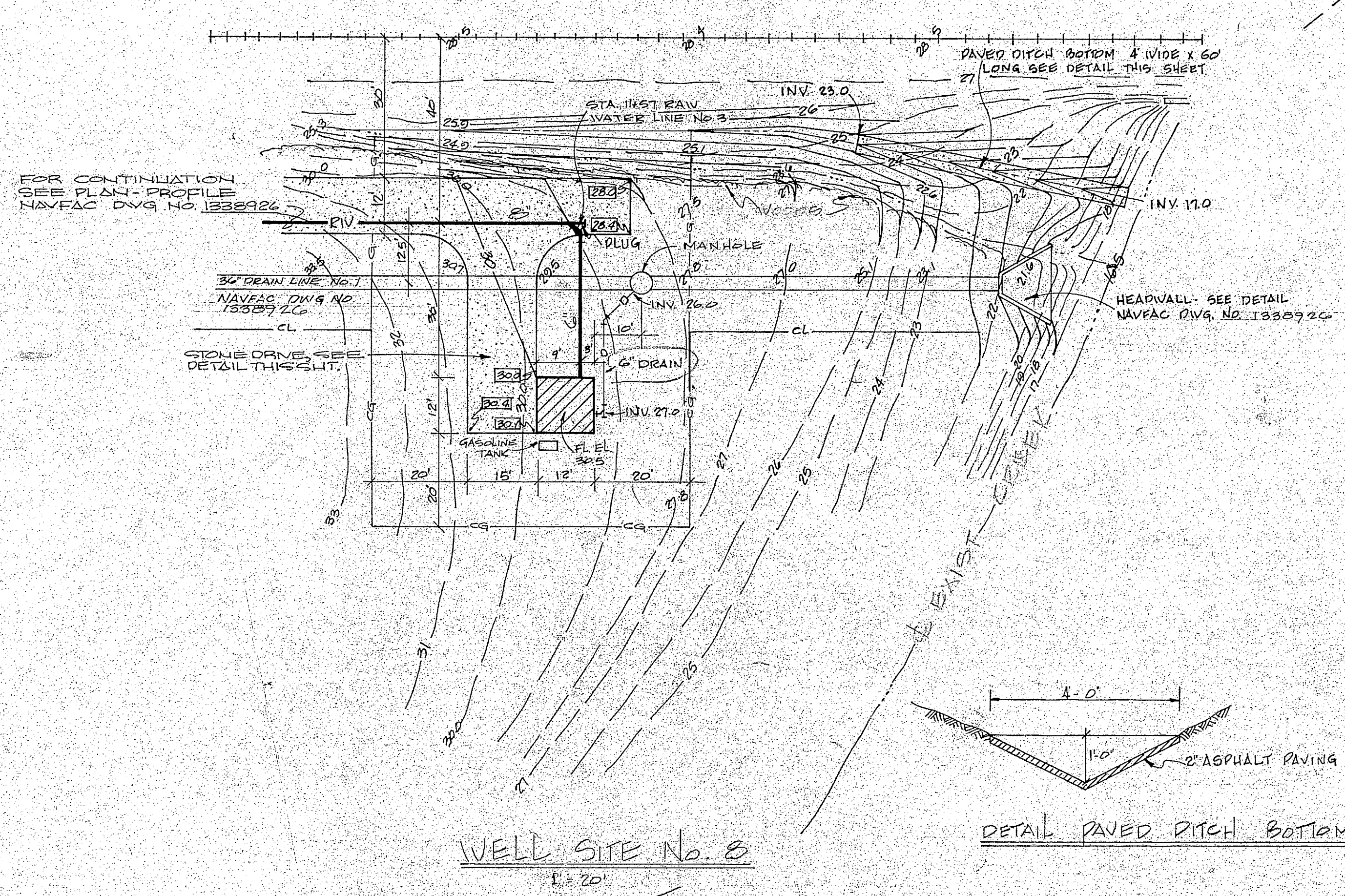
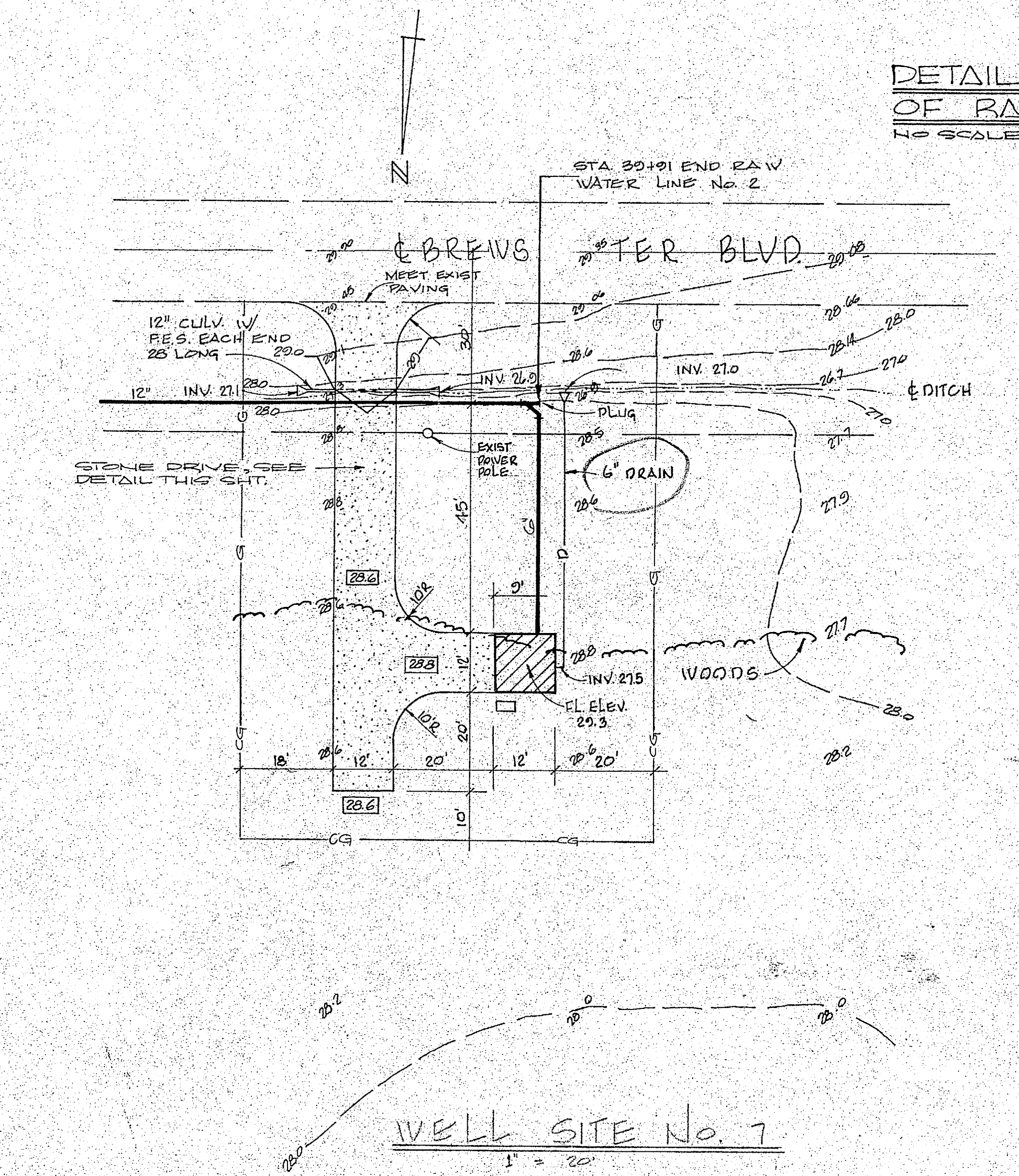
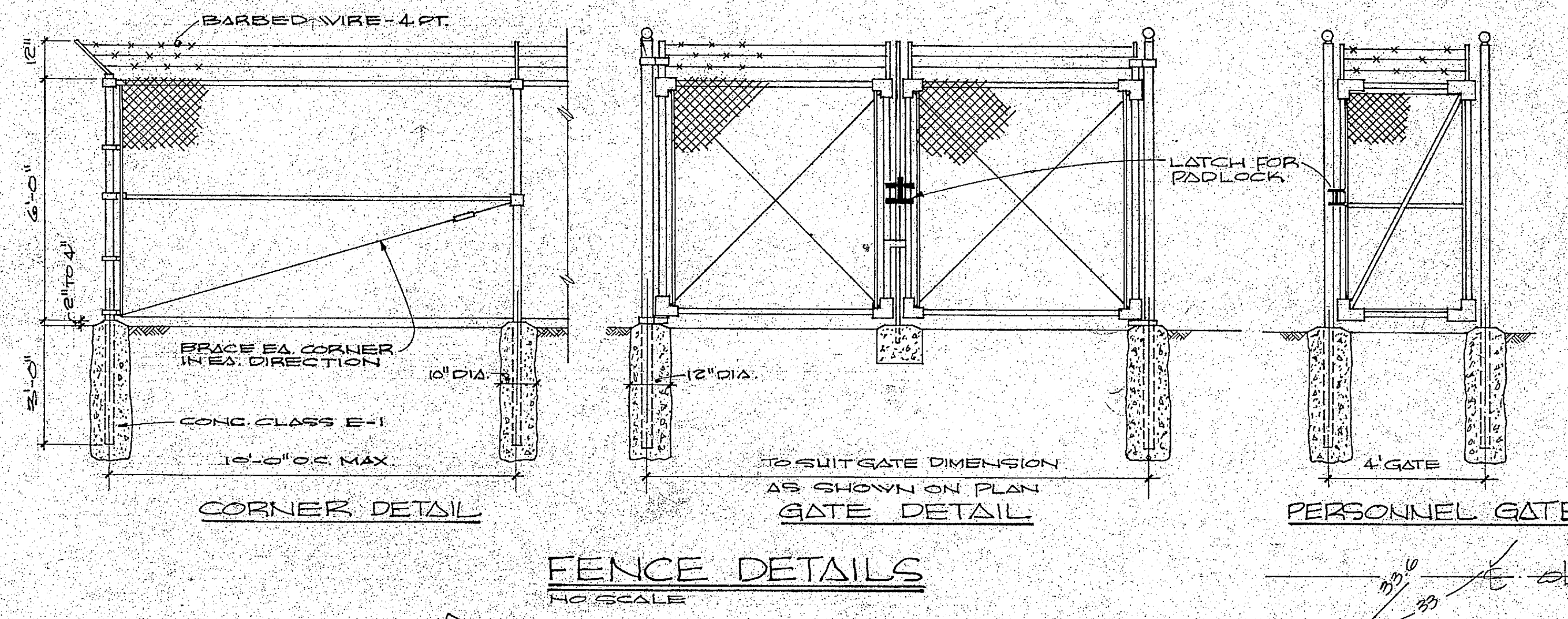
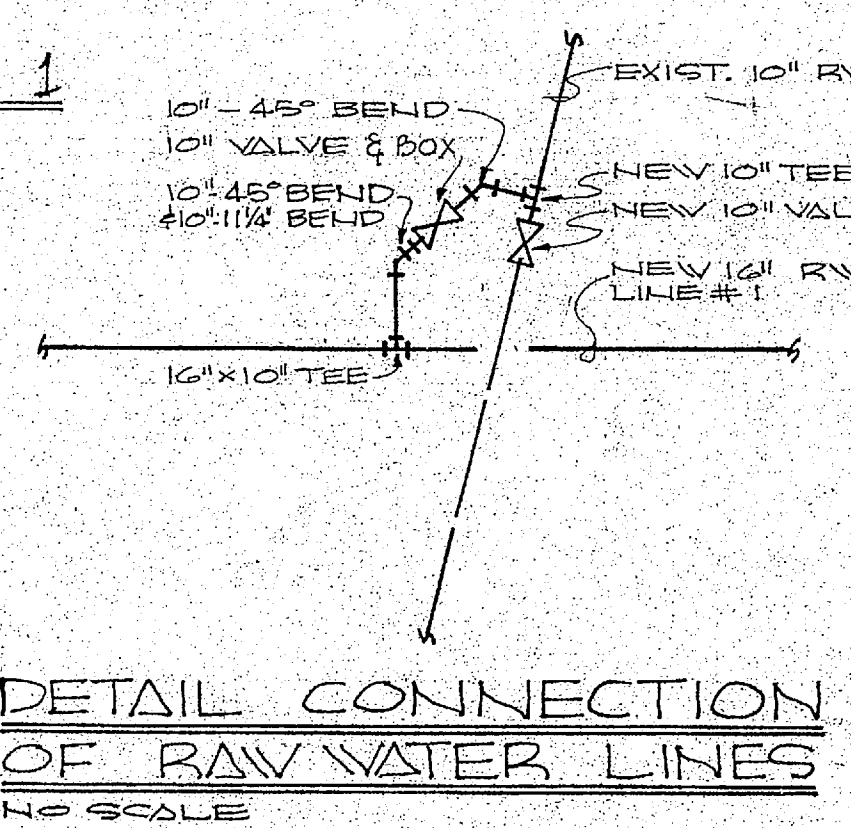
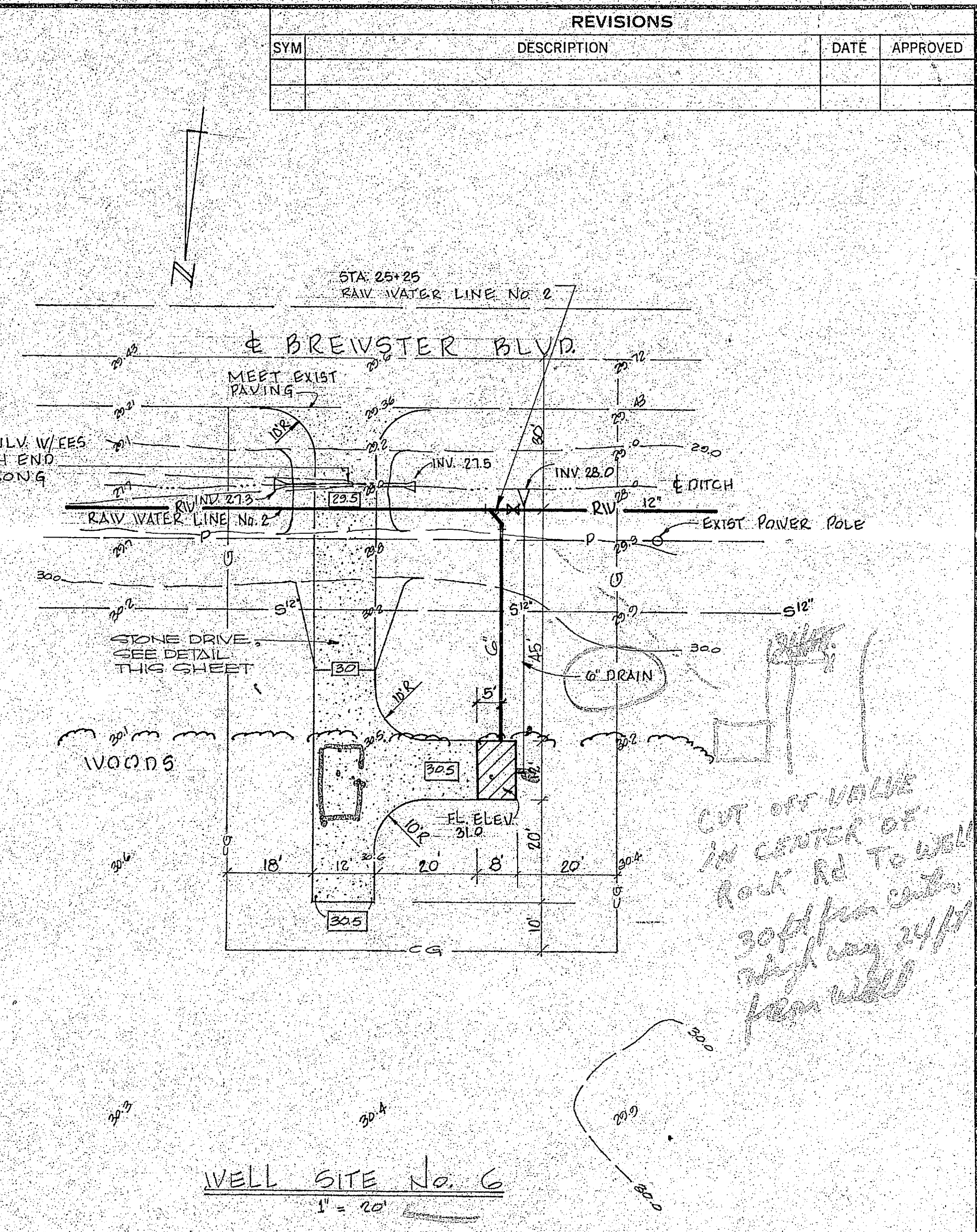
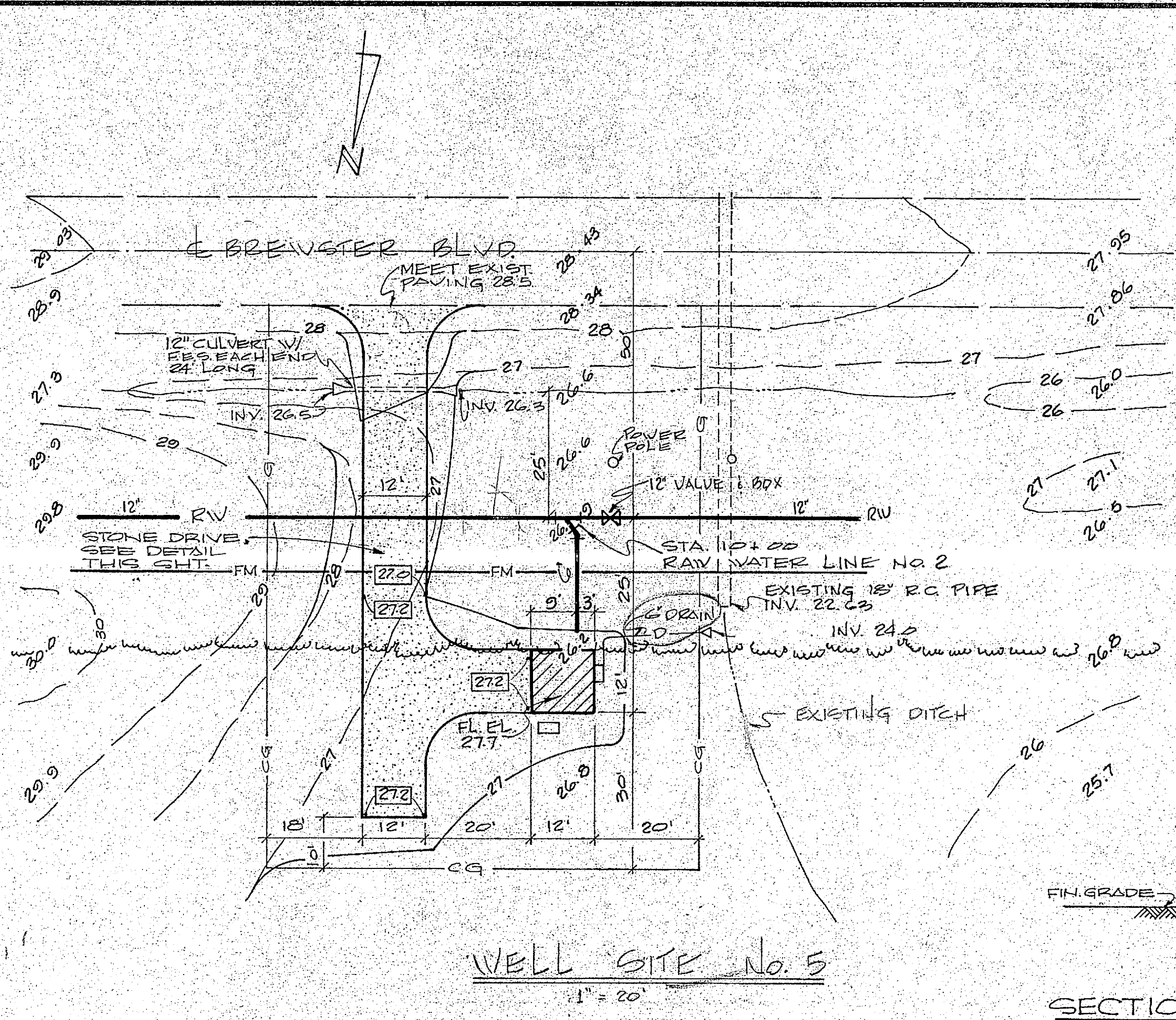
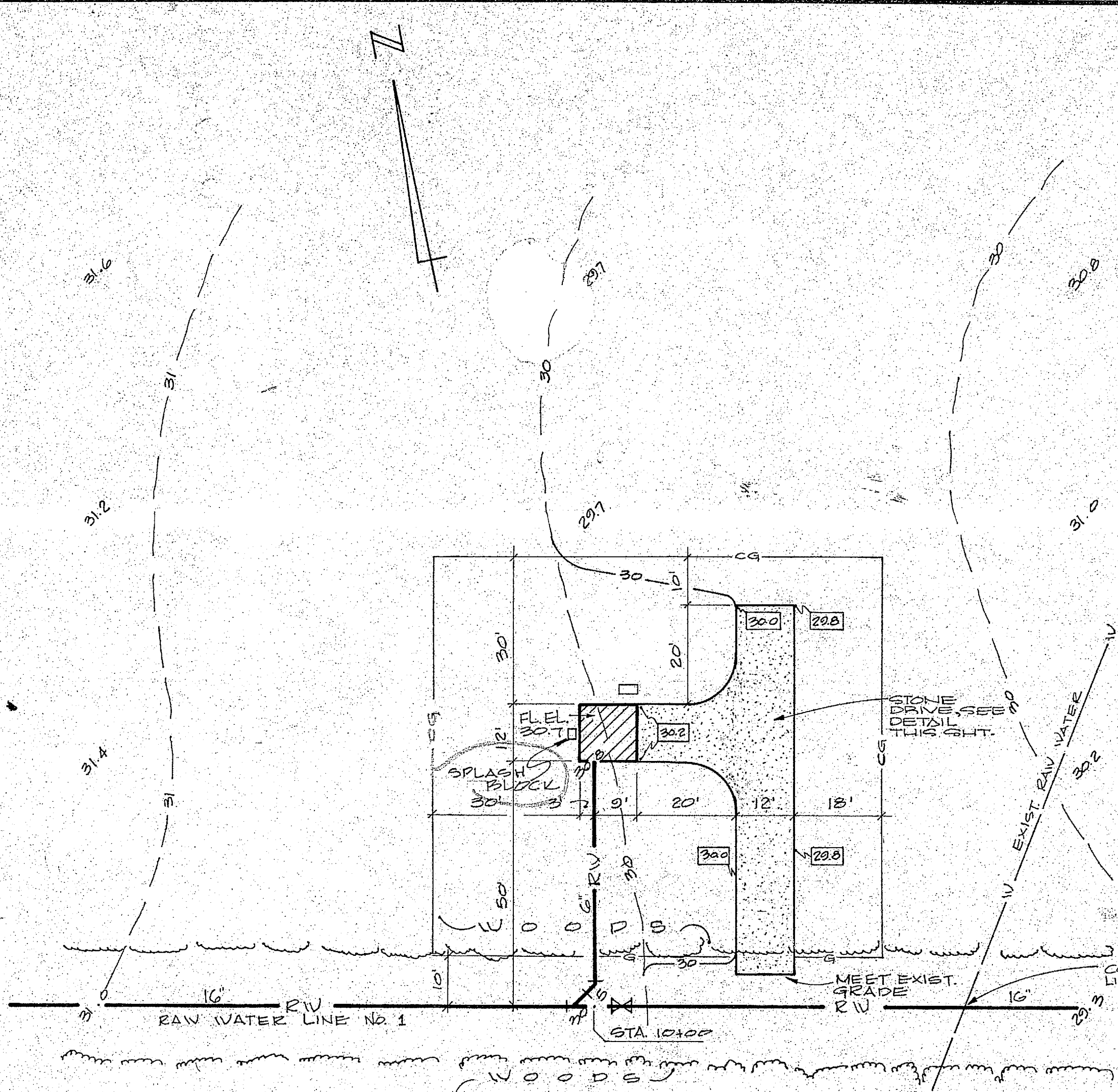
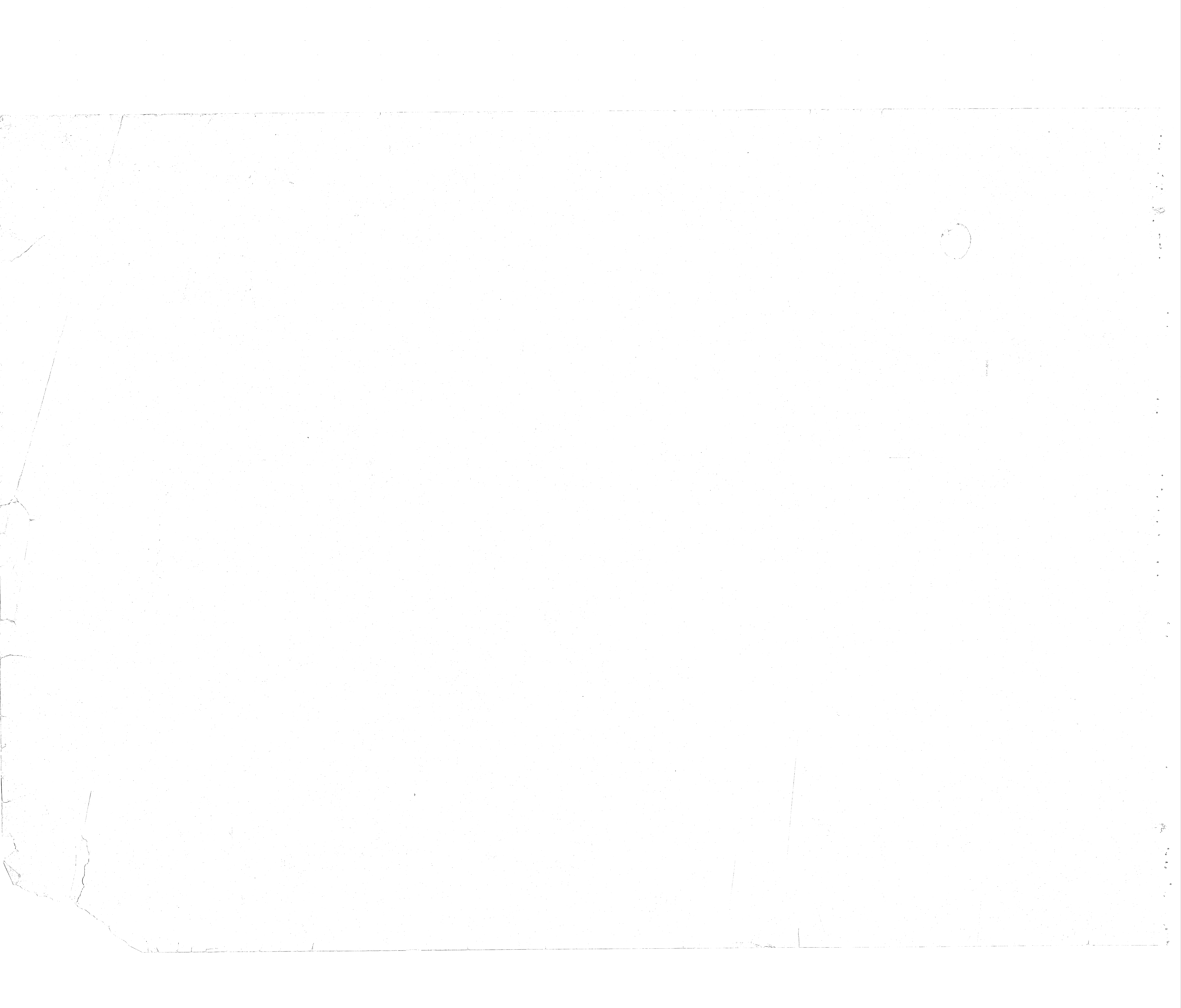


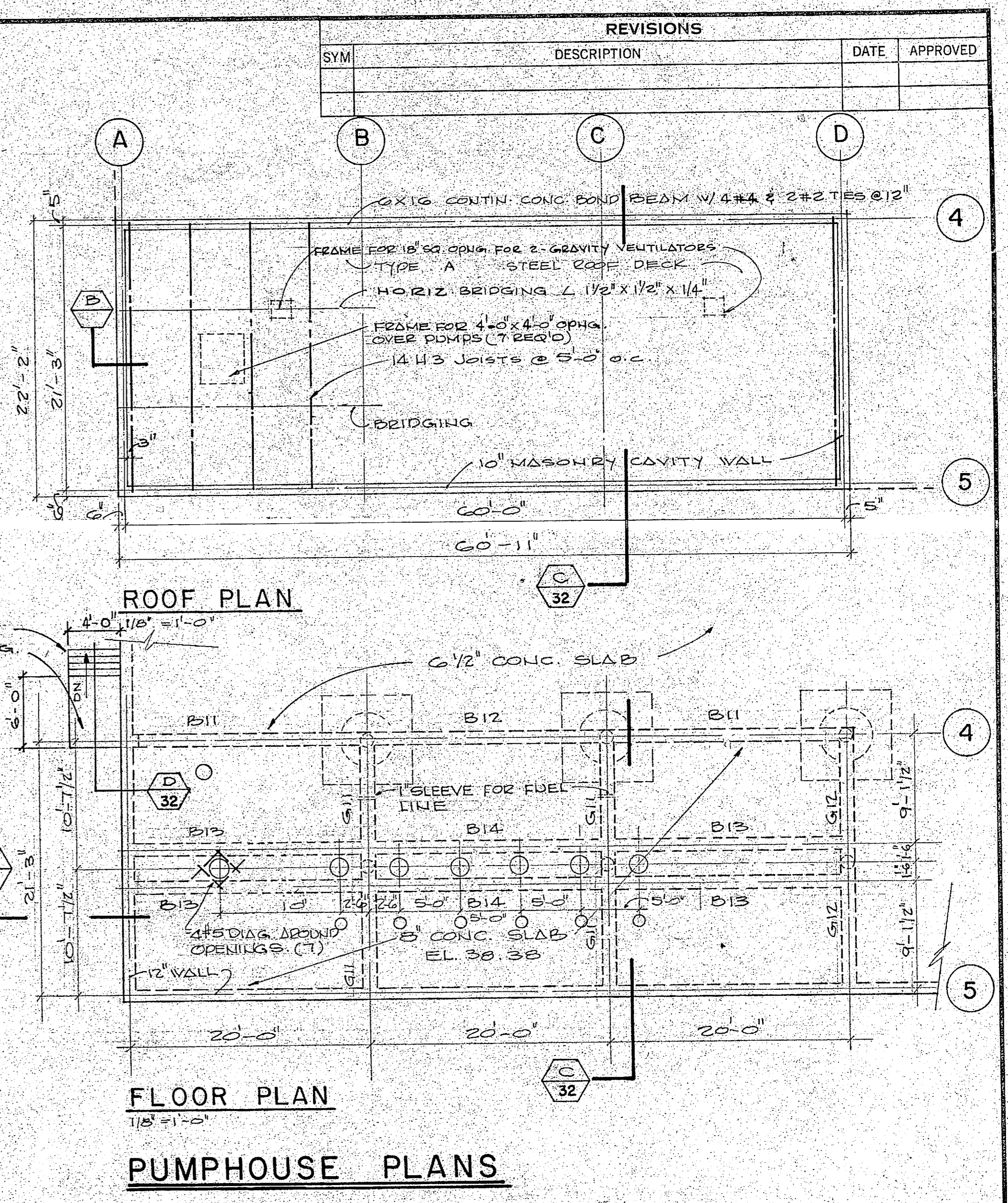
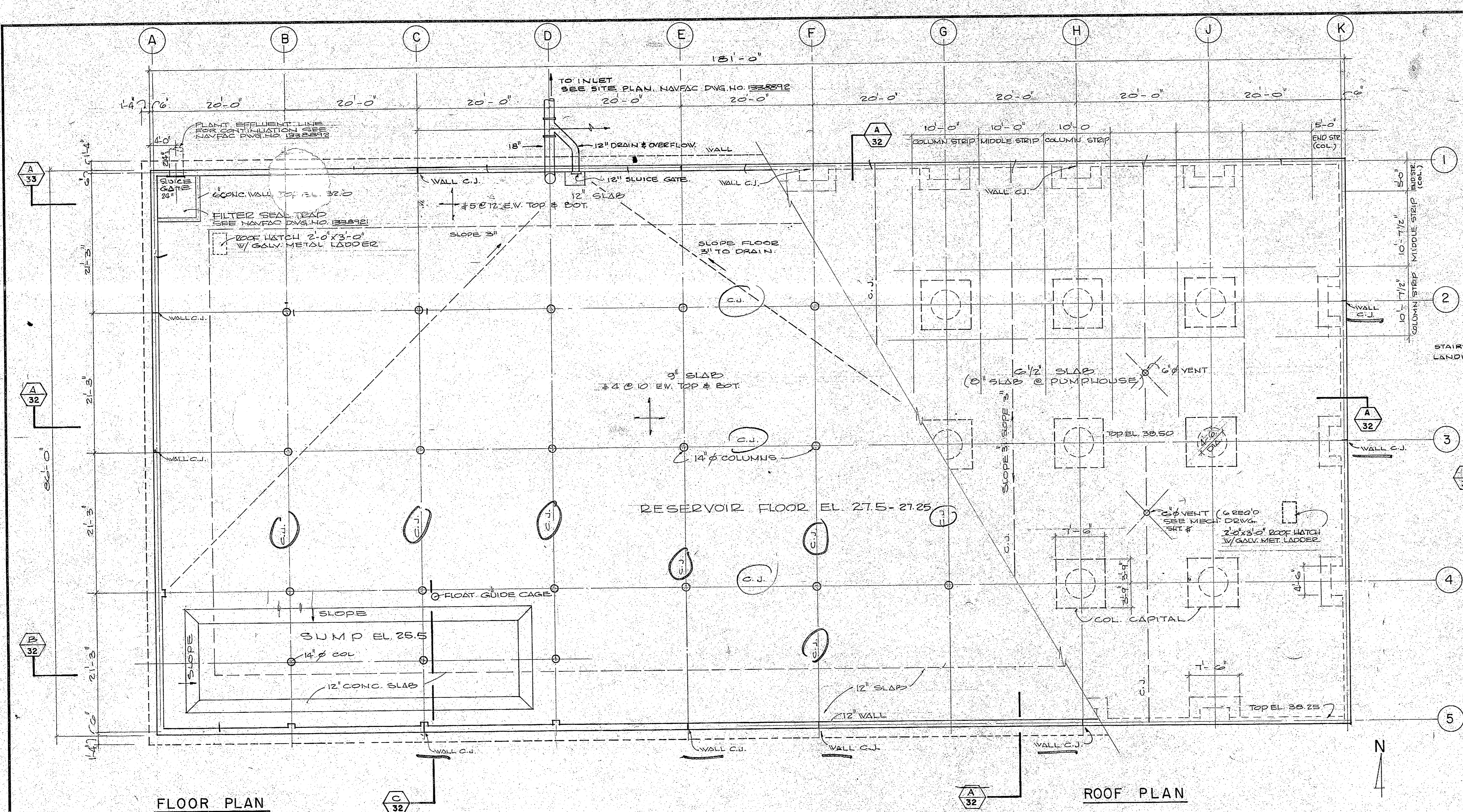
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



HENRY VON OREM & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, N. C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION NORFOLK, VA.	
DRG. J.R.B.	DR. W.S.	CHK. J.R.B.	
SUPV. H.V.O.	ENGR. J.R.B.	DATE	
DESIGNED BY W. Beckwith		DATE	
FILE NUMBER W. 117		DATE	
APPROVED	DATE	CODE IDENT. NO.	NAVAC DRAWING NO.
		F 80091	1338922
PUBLIC WORKS OFFICER		DATE	2005/06/01
PROJECT		SCALE	AS SHOWN
DRAWN		SHEET	05-70-0339

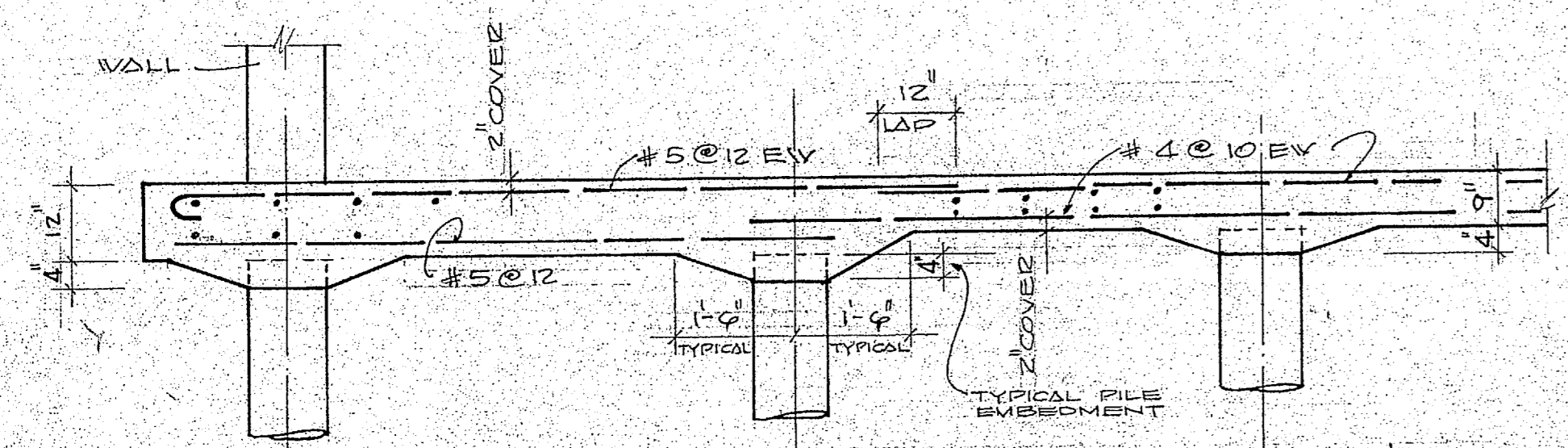
CUT OFF VALVE  
1/4" CENTER OF  
ROAD RD TO WELL  
30ft from center  
of road using 24" pipe  
from well



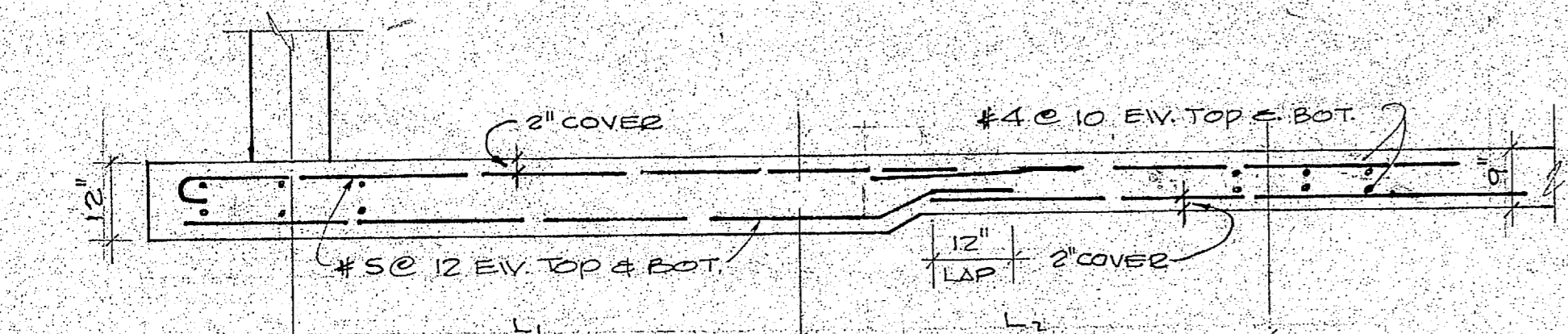


REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED

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

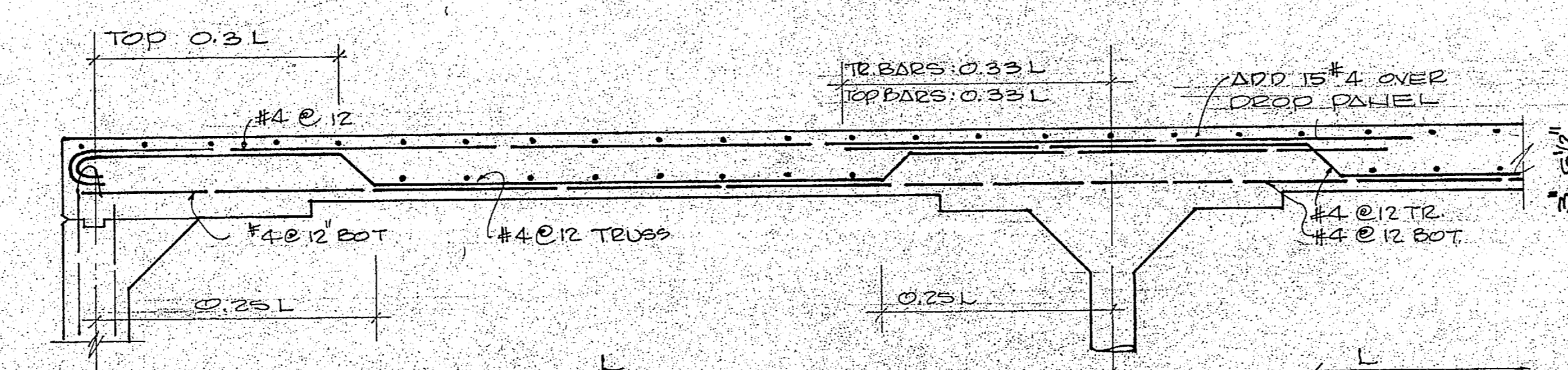


**TYPICAL SECTION COLUMN STRIP**  
NO SCALE

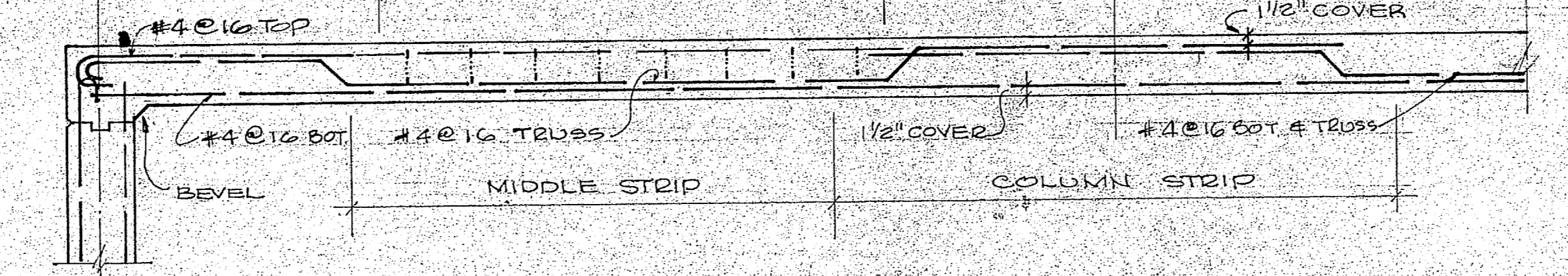


**TYPICAL SECTION MIDDLE STRIP**  
NO SCALE

**FLOOR SLAB**



**TYPICAL SECTION COLUMN STRIP**  
NO SCALE

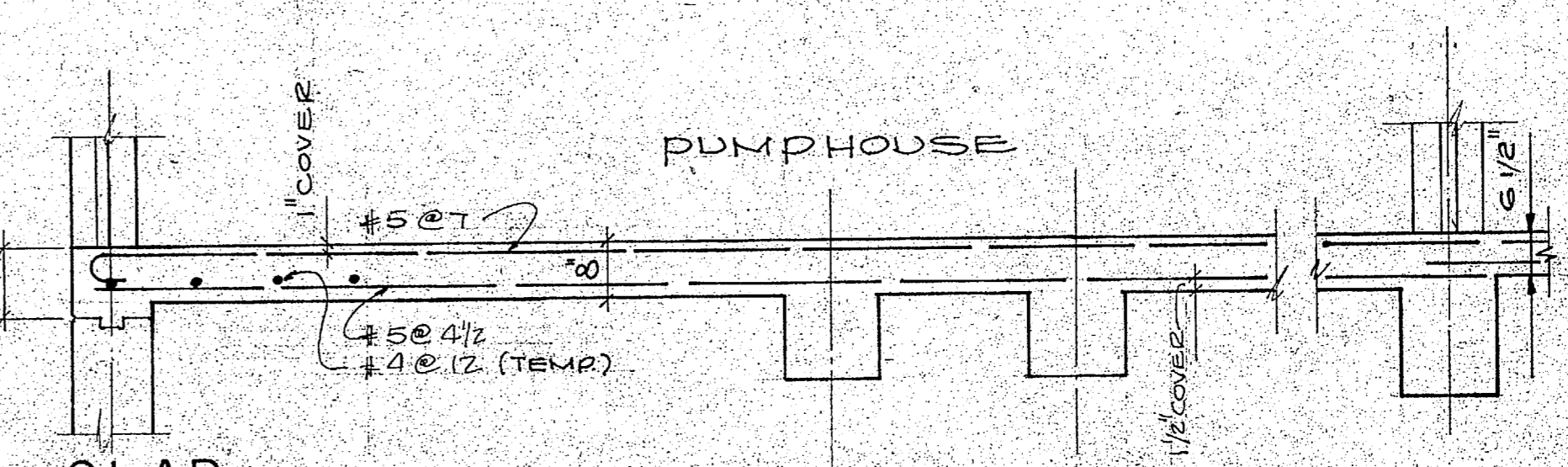


**TYPICAL SECTION MIDDLE STRIP**  
NO SCALE

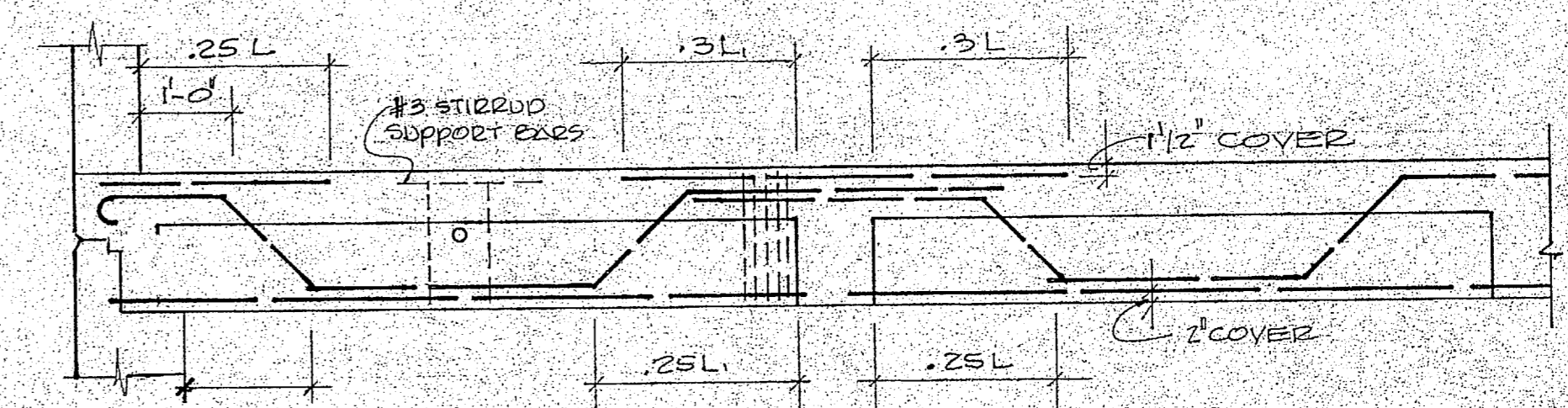
**ROOF SLAB**

**TYPICAL BENDING DETAILS**

NOTE: ALL SLABS TO HAVE BAR SUPPORTS IN ACCORDANCE WITH C.R. 4 A.C.I. STANDARDS.



**SLAB**



**BEAM - GIRDER**

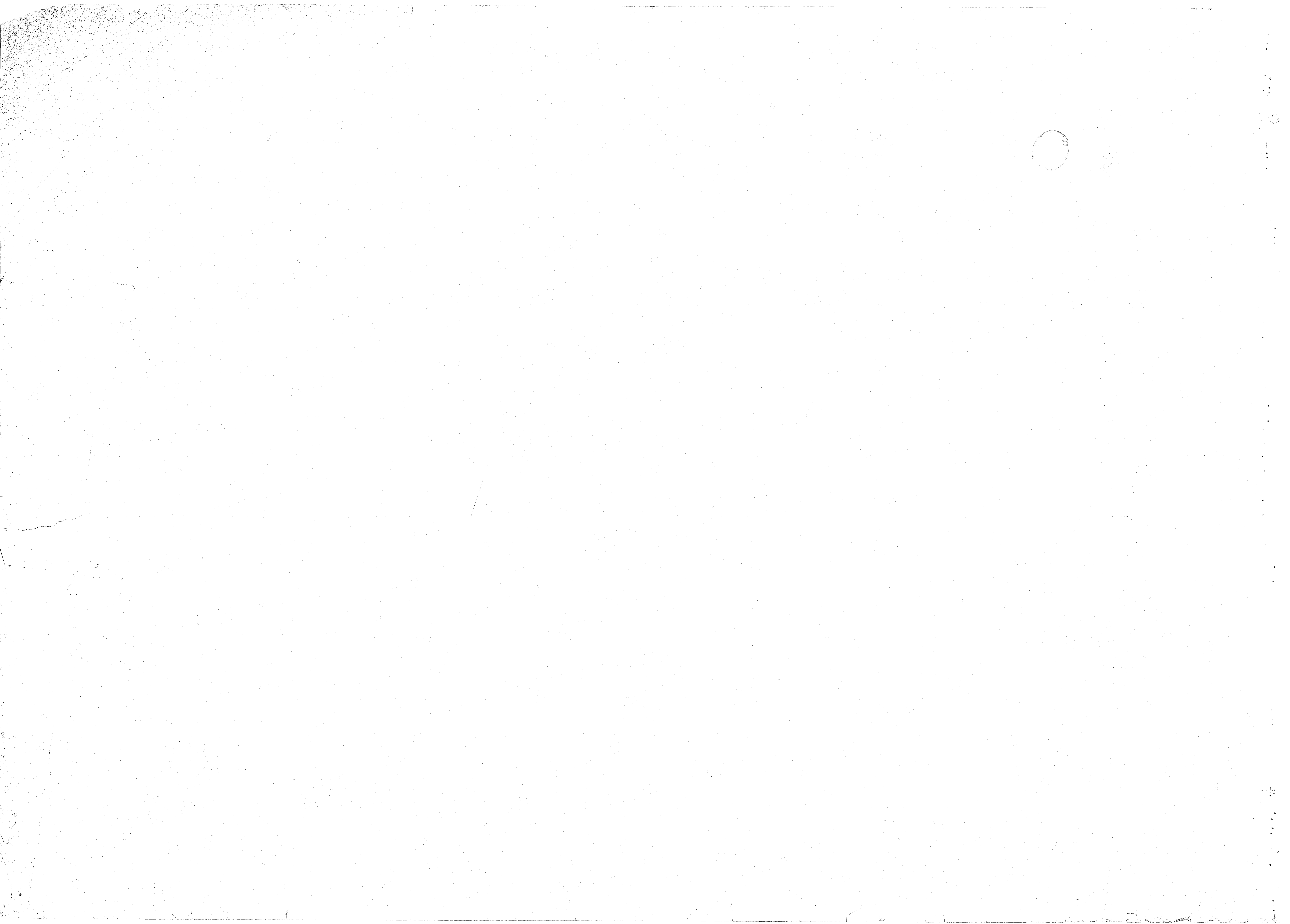
**STRUCTURAL NOTES**

- DESIGN LIVE LOADS: ROOF - 30 P.S.F., PUMPHOUSE 150 P.S.F.
- BASE BID ON PROVIDING 3" FOOT CLASS B TIMBER PILES, 20 TEN CAP.
- CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS - 3000 P.S.I.
- 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 MANUFACTURERS RECOMMENDATIONS.

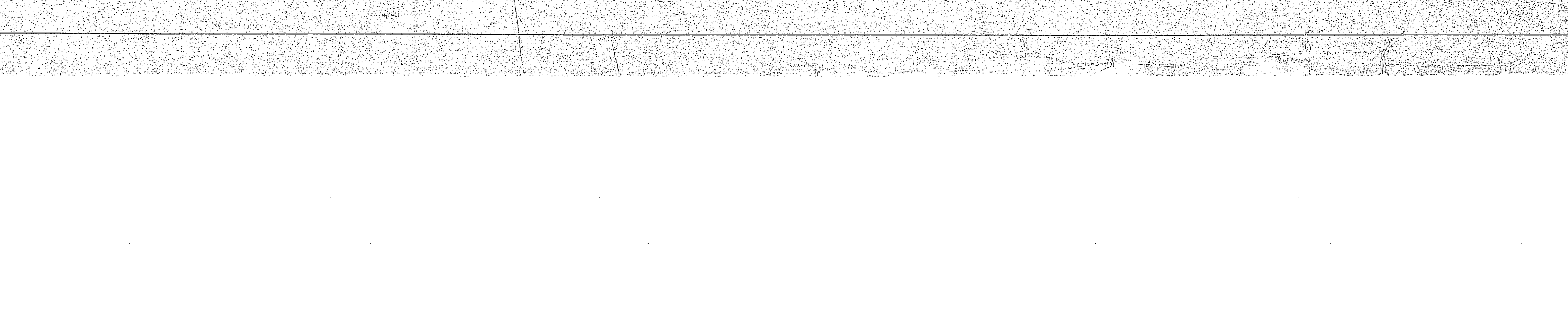
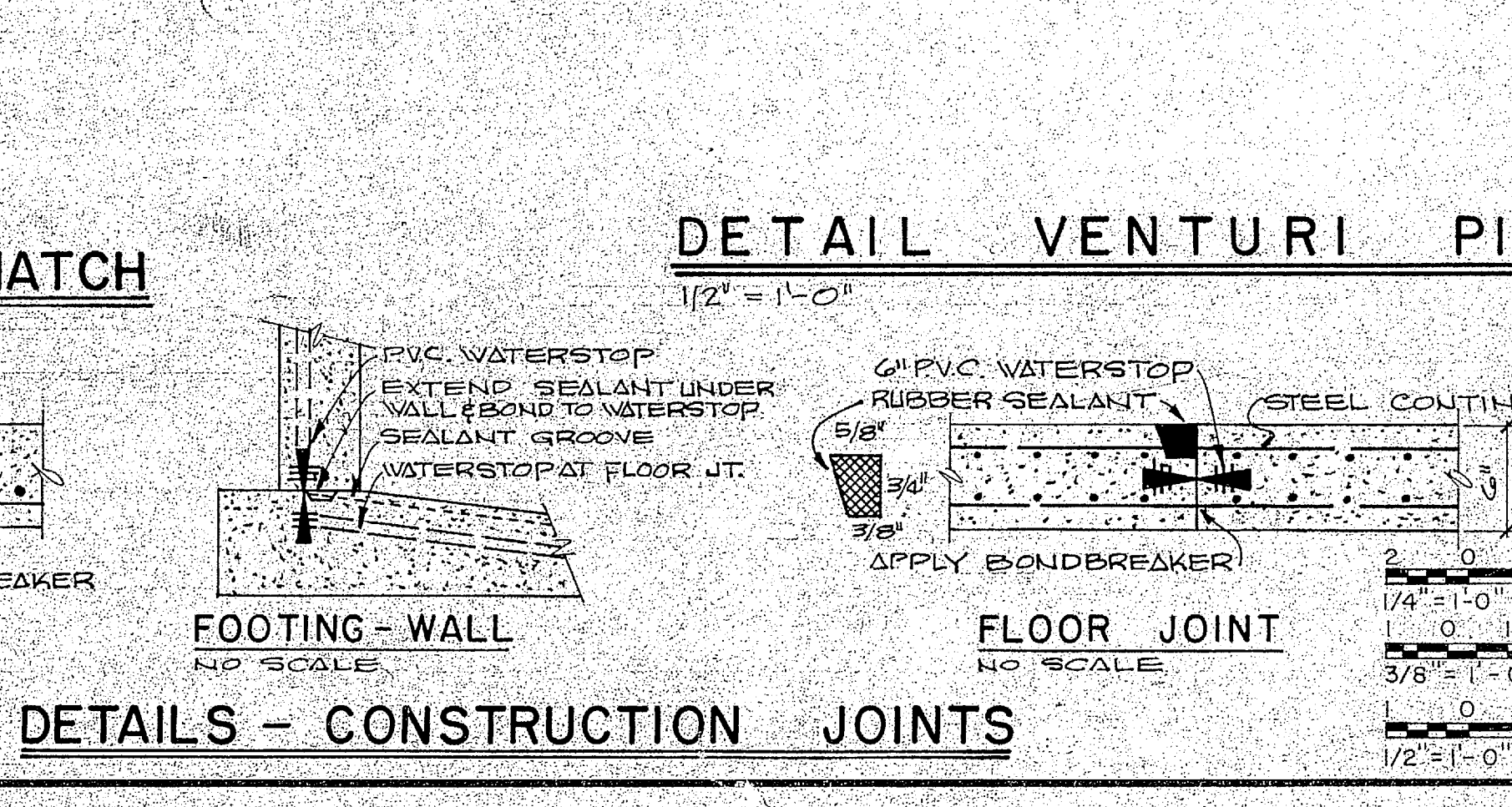
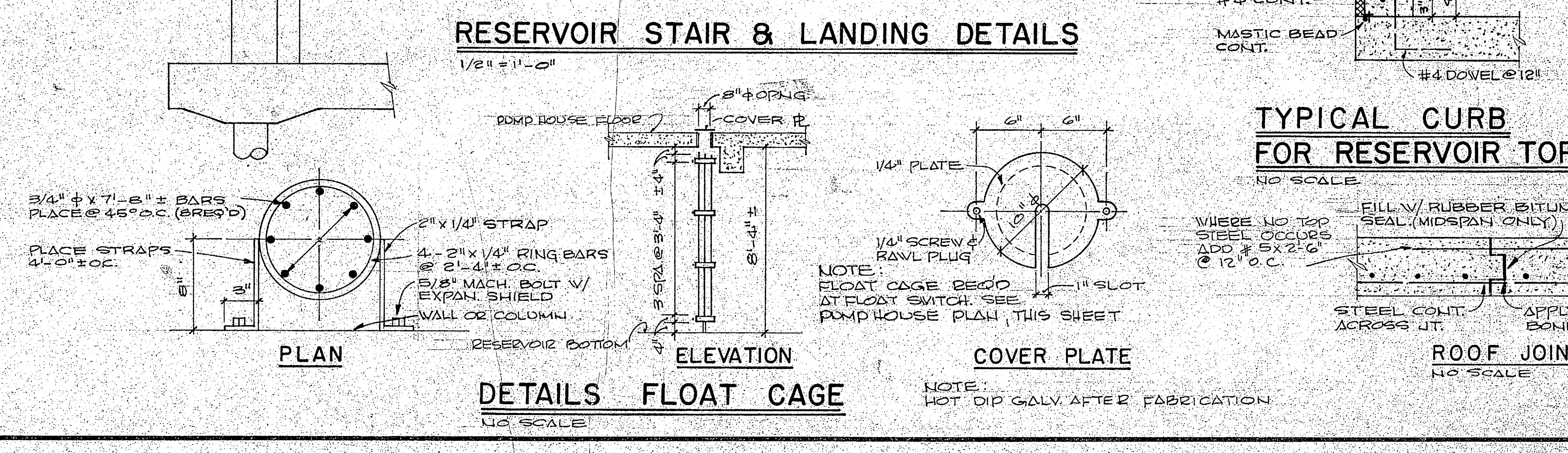
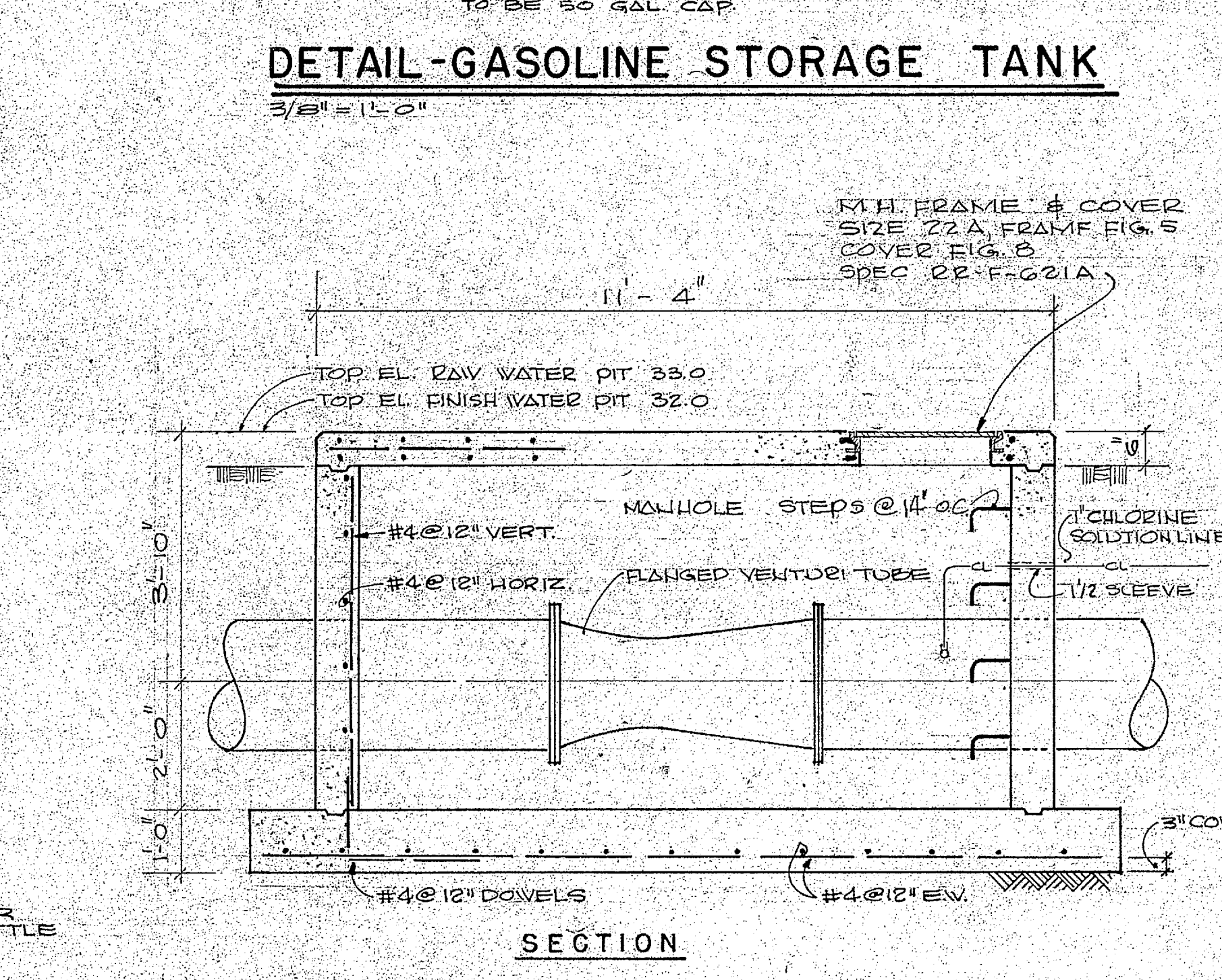
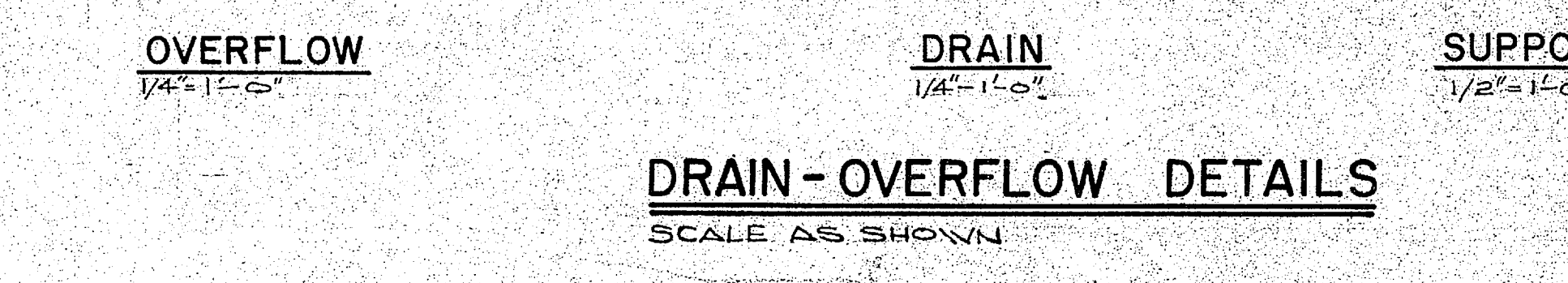
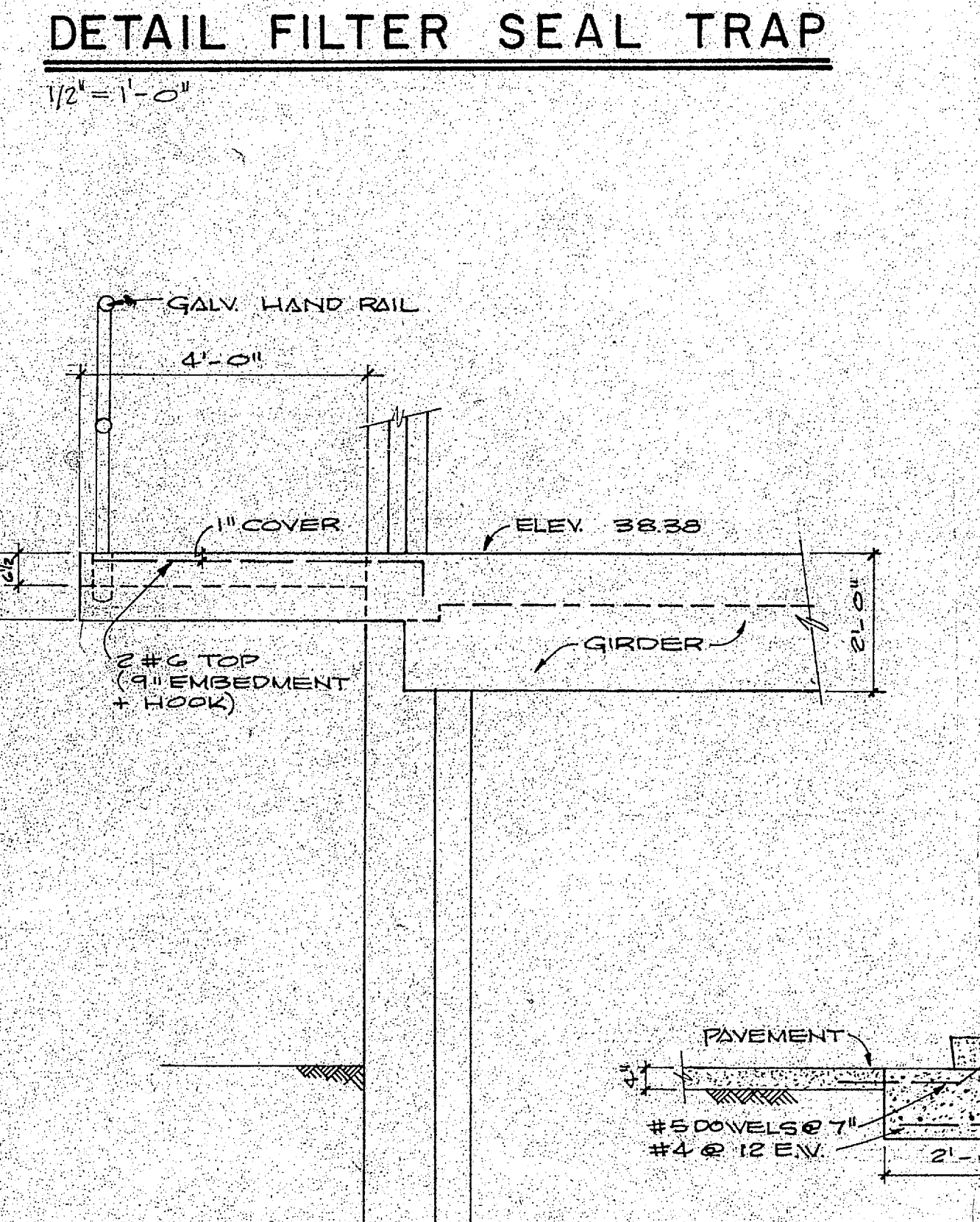
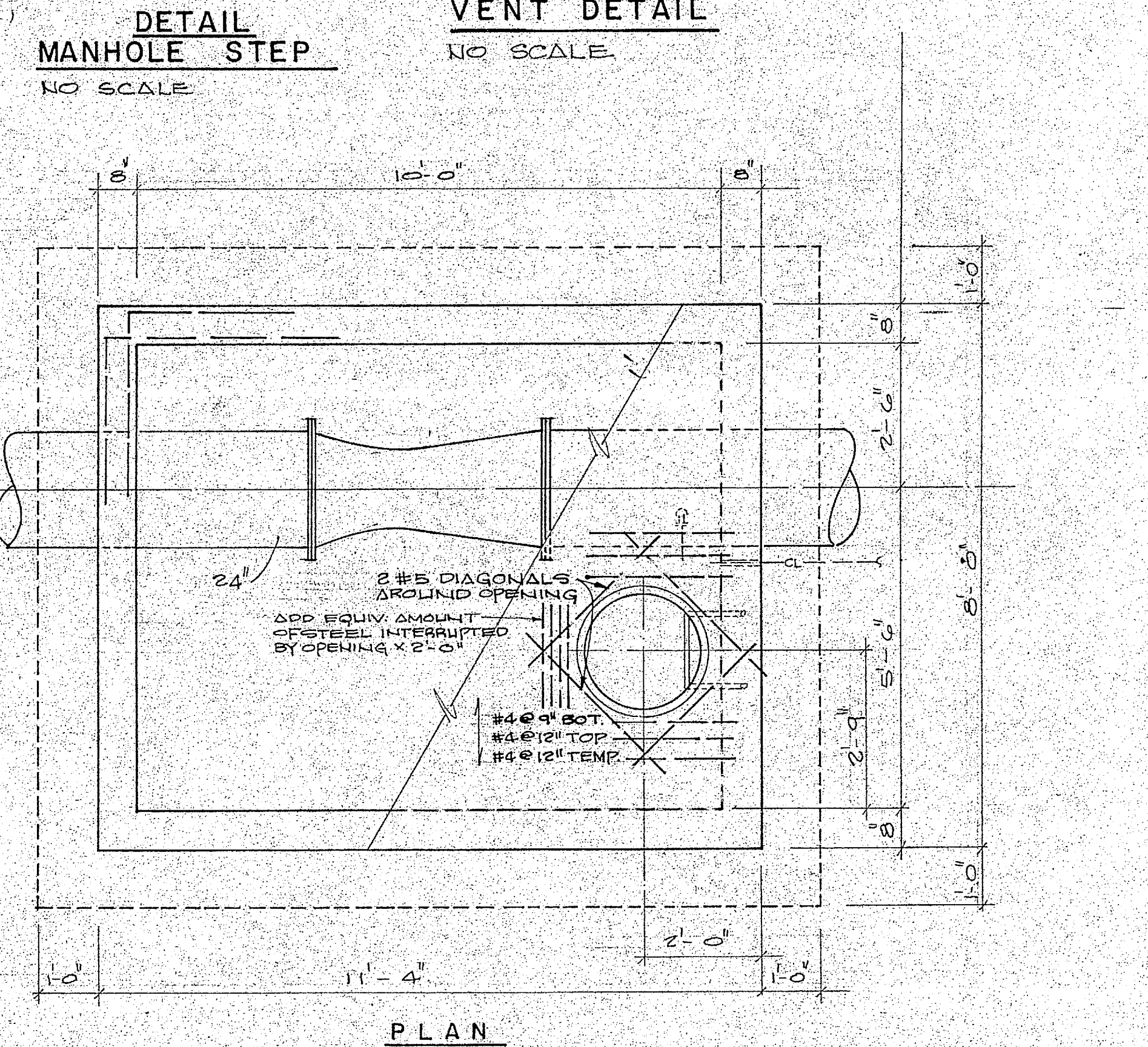
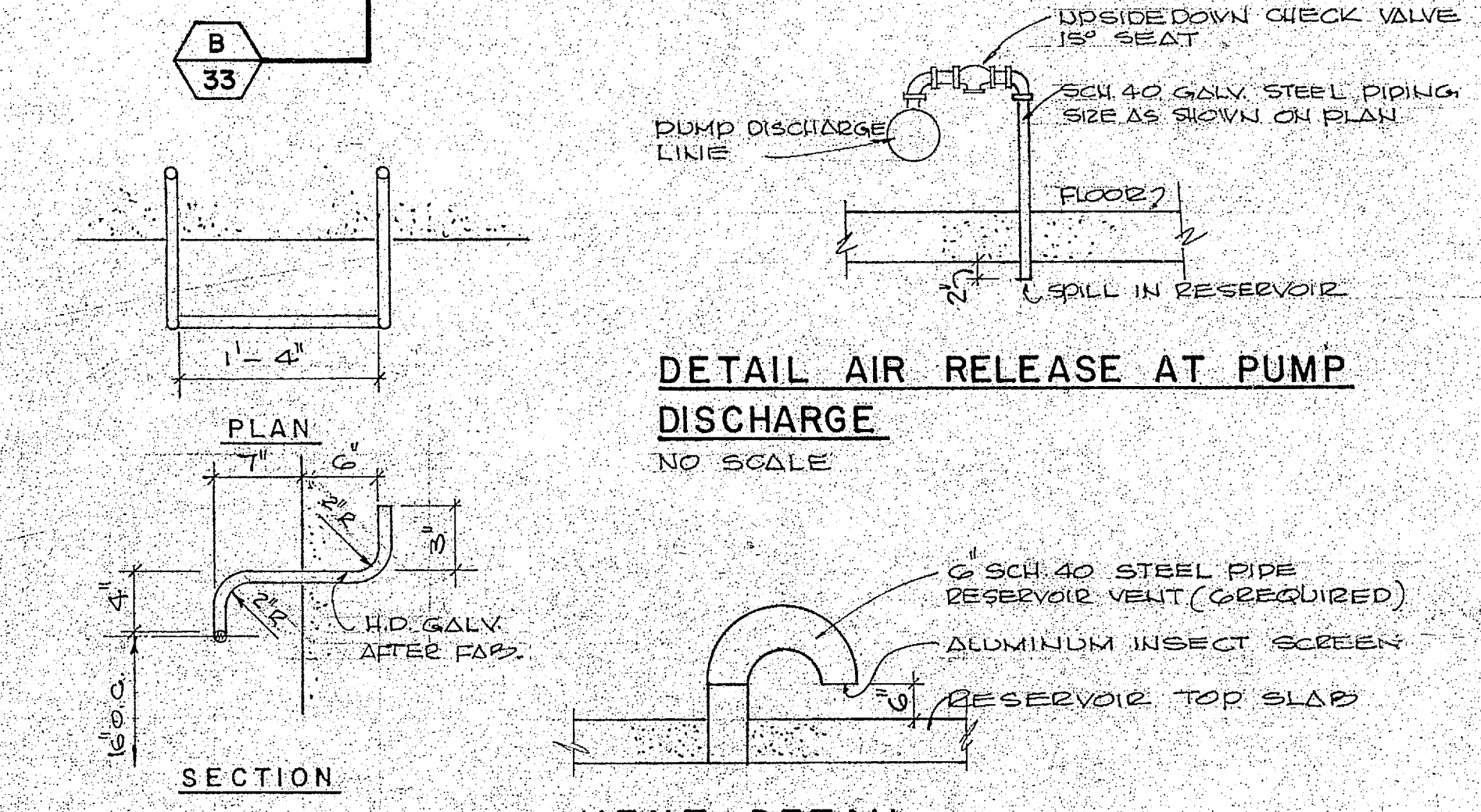
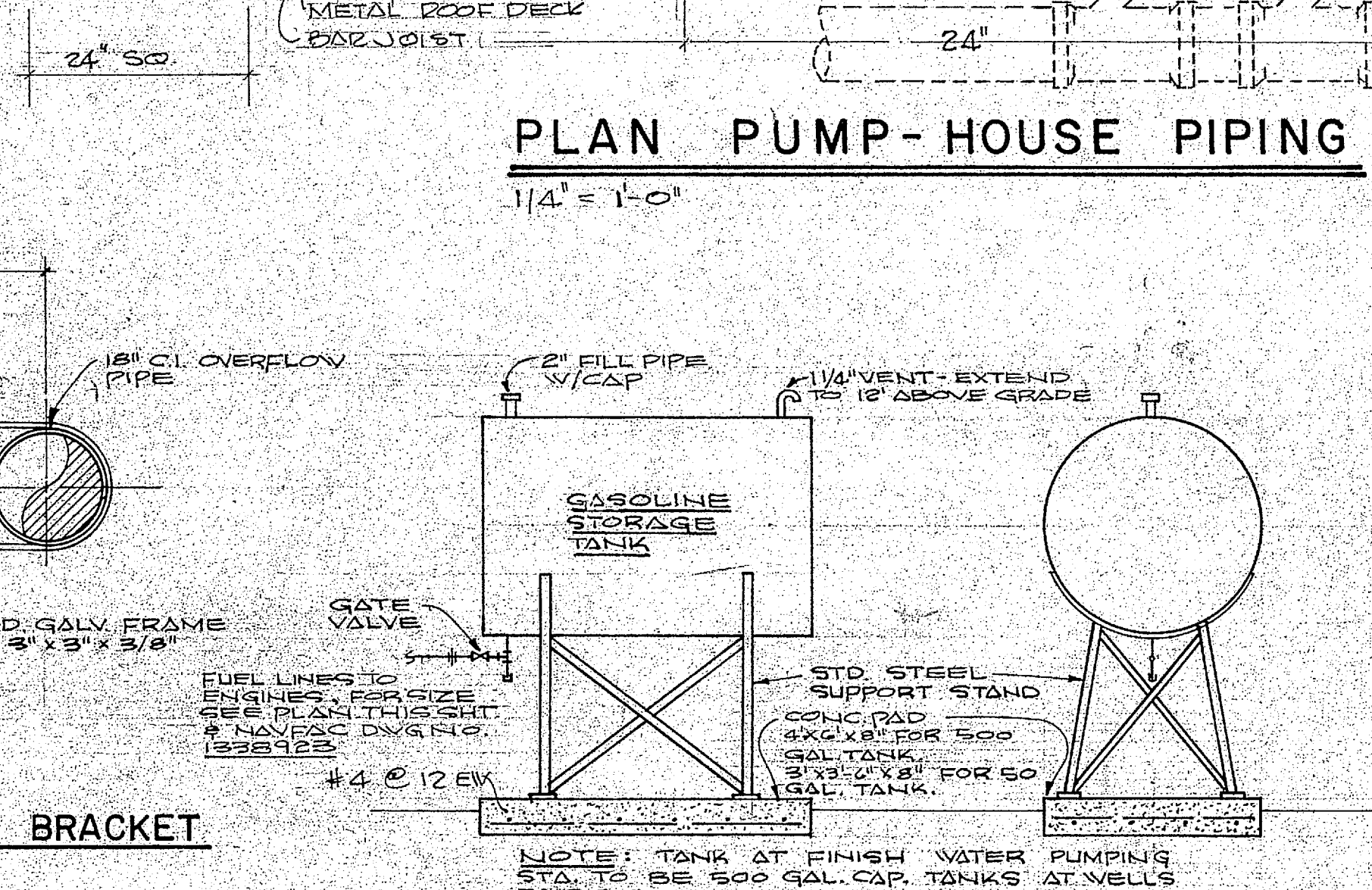
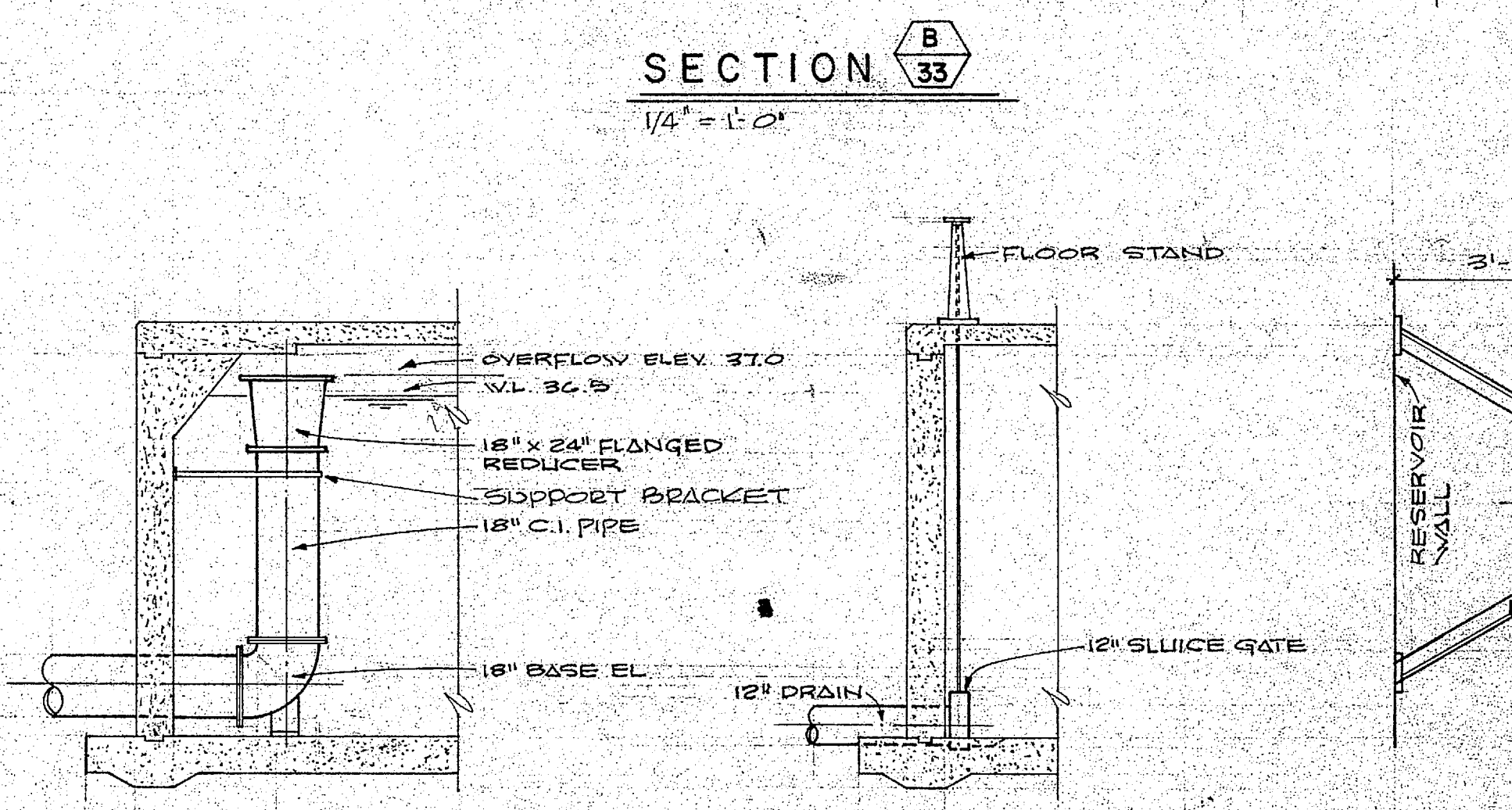
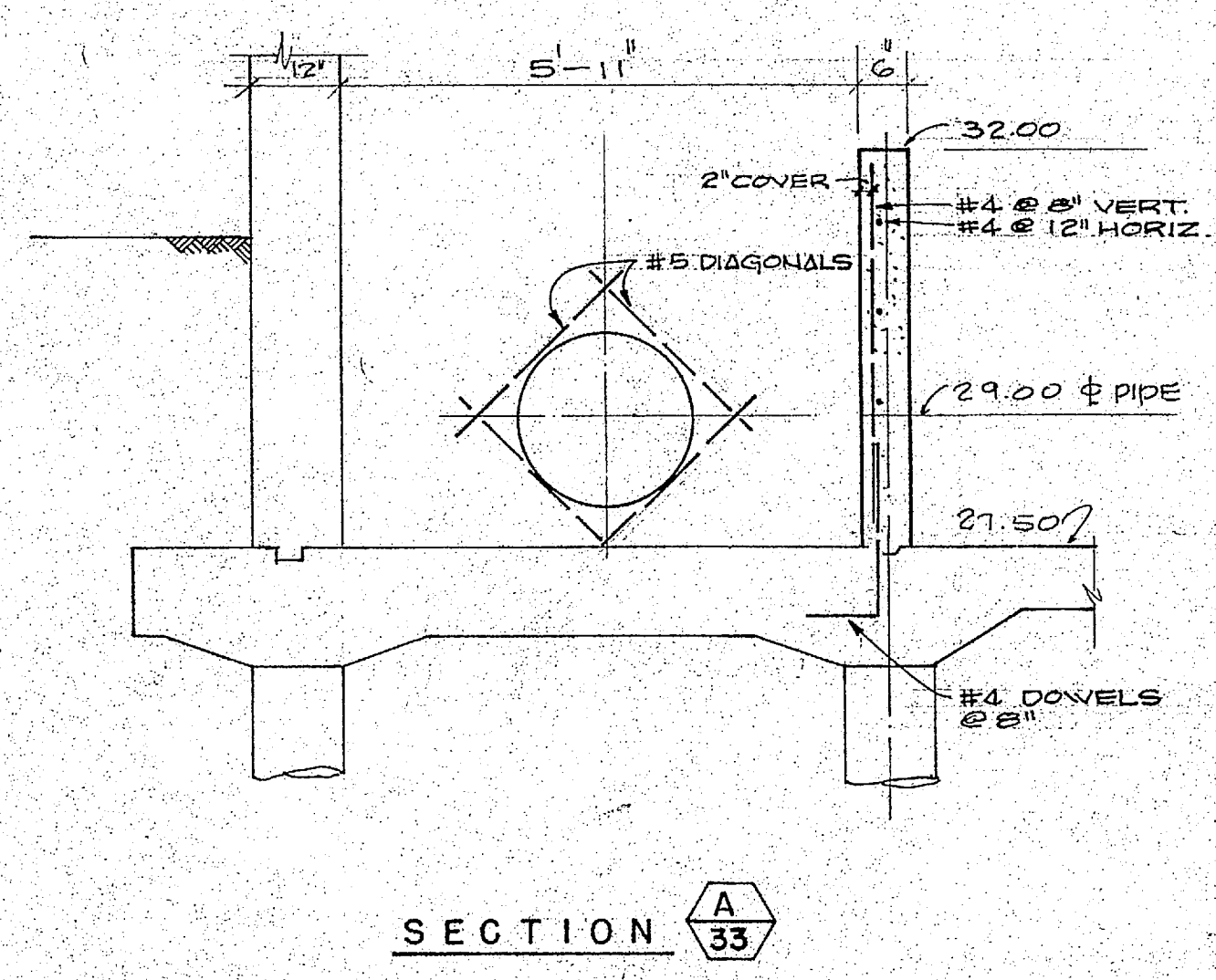
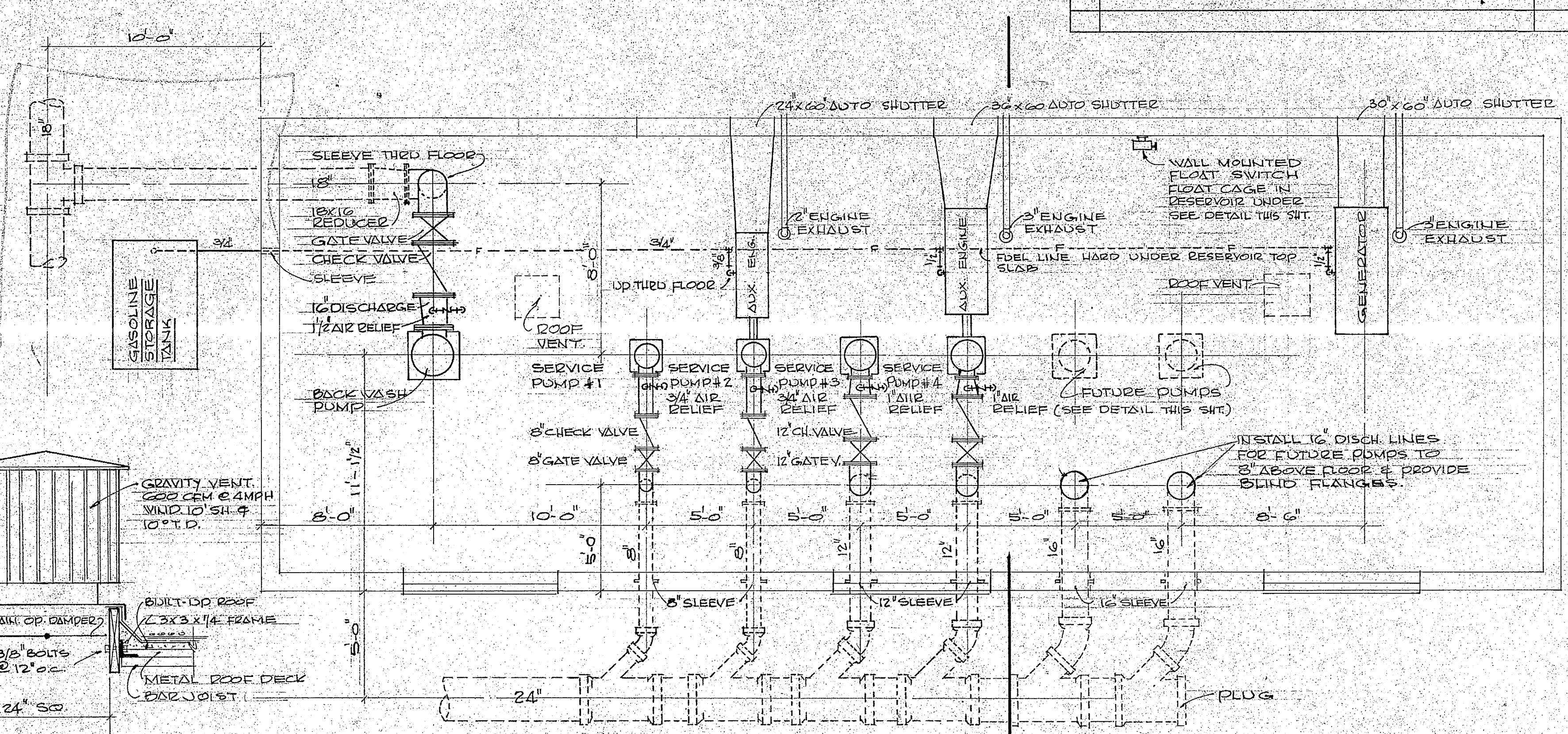
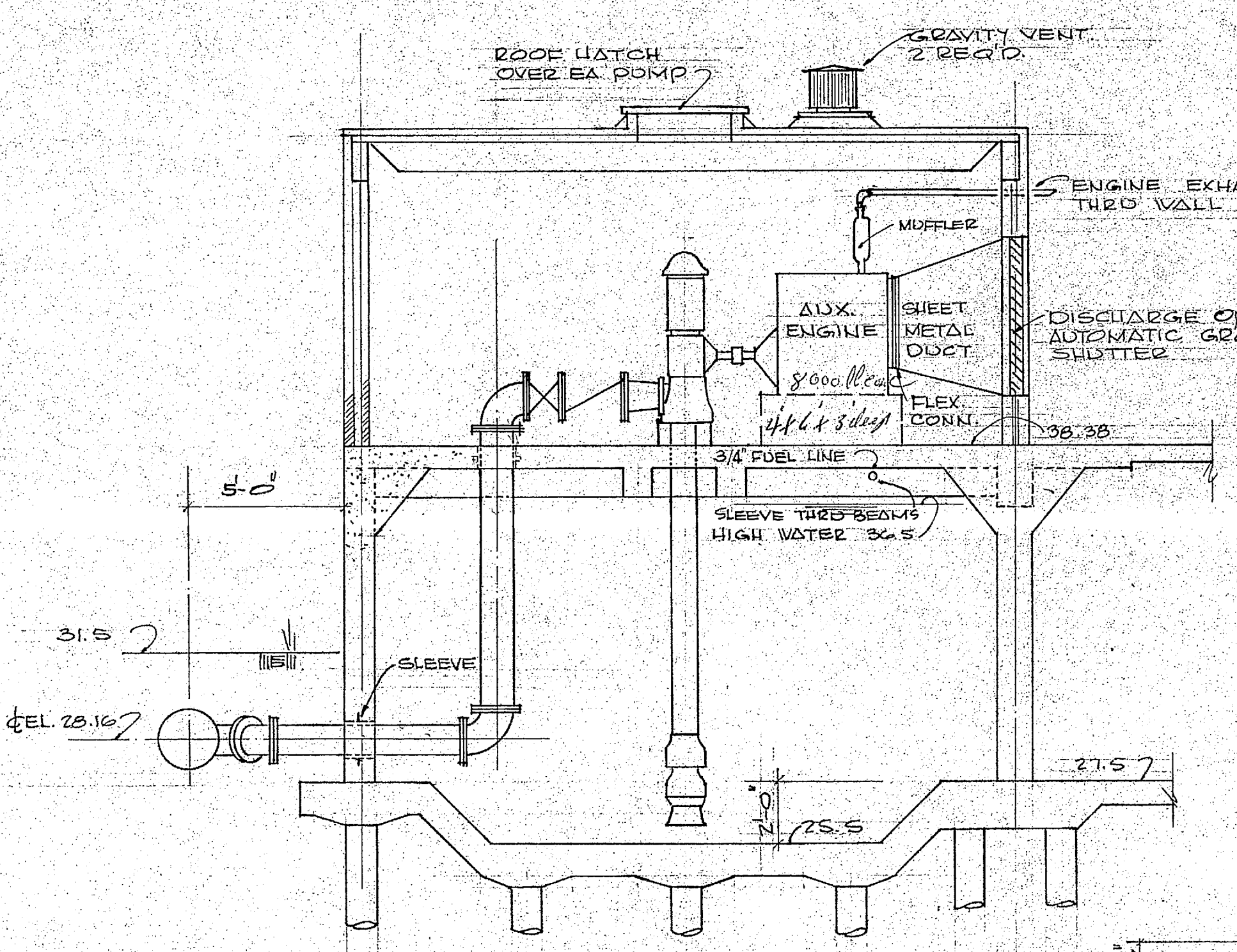
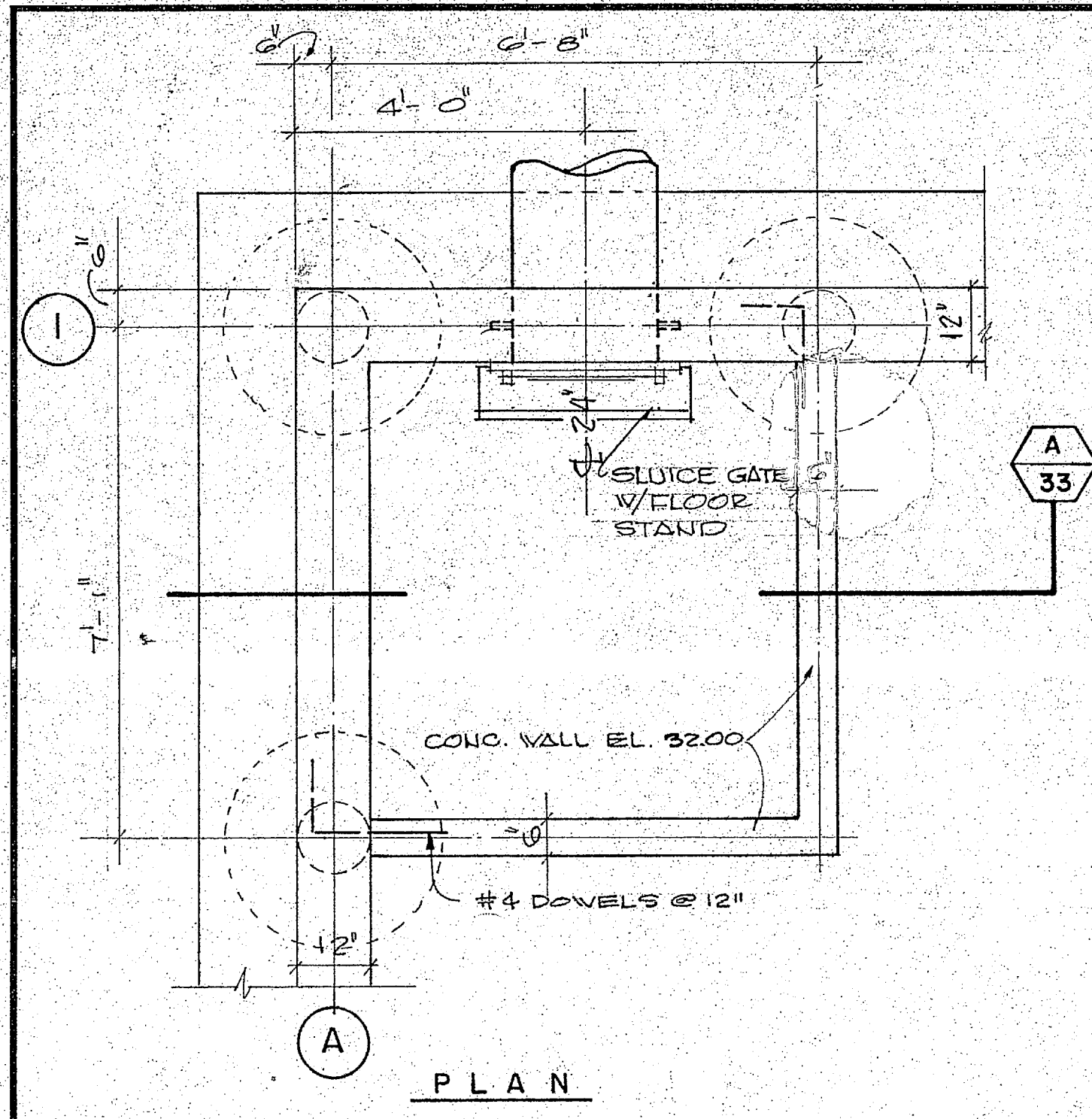
MARK	SIZE	REINFORCING				STIRRUPS	
		LONGITUDINAL		SPACING FROM FACE			
		W	D	BOTTOM	TRUSS		
B 11	14	24	4#8	2#8	2#4	#3	1@2 1/2", 17@5, REM. @ 10"
B 12	14	24	4#8	2#8	2#4	#3	DO
B 13	12	20	2#5	2#6	2#4	#3	1@3", 6@9", REM. @ 18"
B 14	12	20	2#5	2#6	1#9	#3	DO
G 11	14	20	2#5	-	5#5 CONT.	#4	1@3", 4@6", REM. @ 18"
G 12	14	20	2#6	-	5#5 CONT.	#4	DO

HENRY VON DESEN & ASSOCIATES CONSULTING ENGINEERS WARRINGTON, N. C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION NORFOLK, VA.	
PROJECT NO. 80091		DRAWING NO. 1338919	
DATE: 05-70-0939		PAGE: 31 OF 49	





REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



**HENRY VON BEGEN & ASSOCIATES**  
CONSULTING ENGINEERS  
WILMINGTON, N.C.

DESIGNED BY: DR. D.M. J.R.B.  
CHECKED BY: CH. ENGR. J.R.B.  
DATE: 10/15/50

APPROVED: [Signature]

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

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

**RESERVOIR DETAILS**

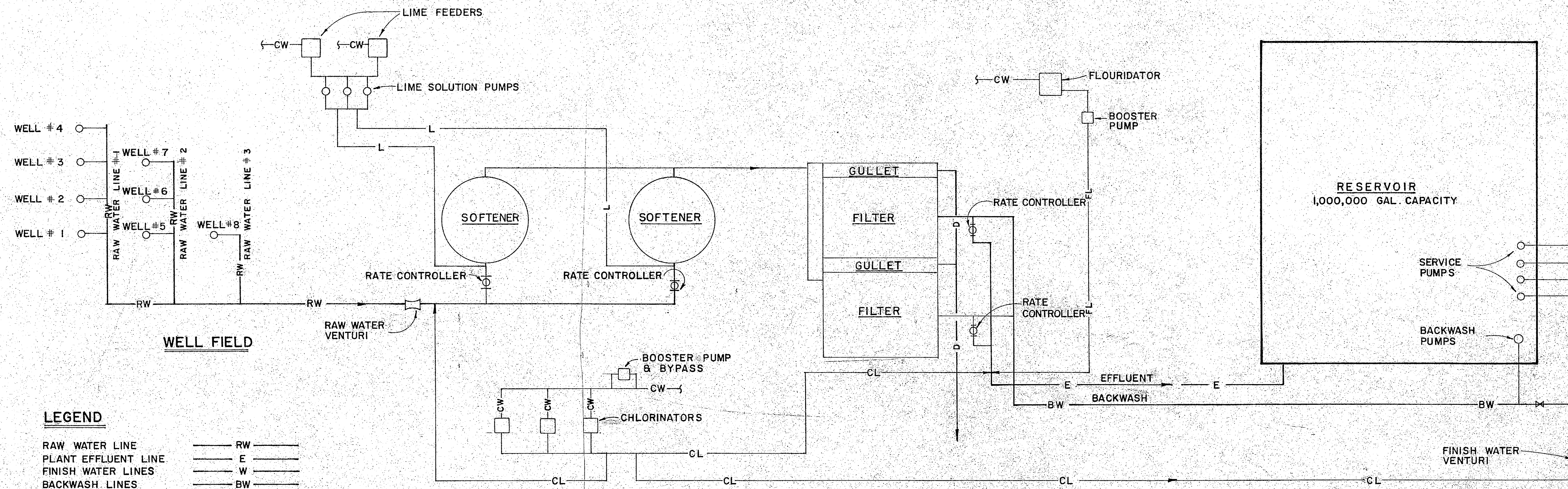
NAVAL DRAWING NO. 1338921

DATE: 05-70-0959





REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



**LEGEND**

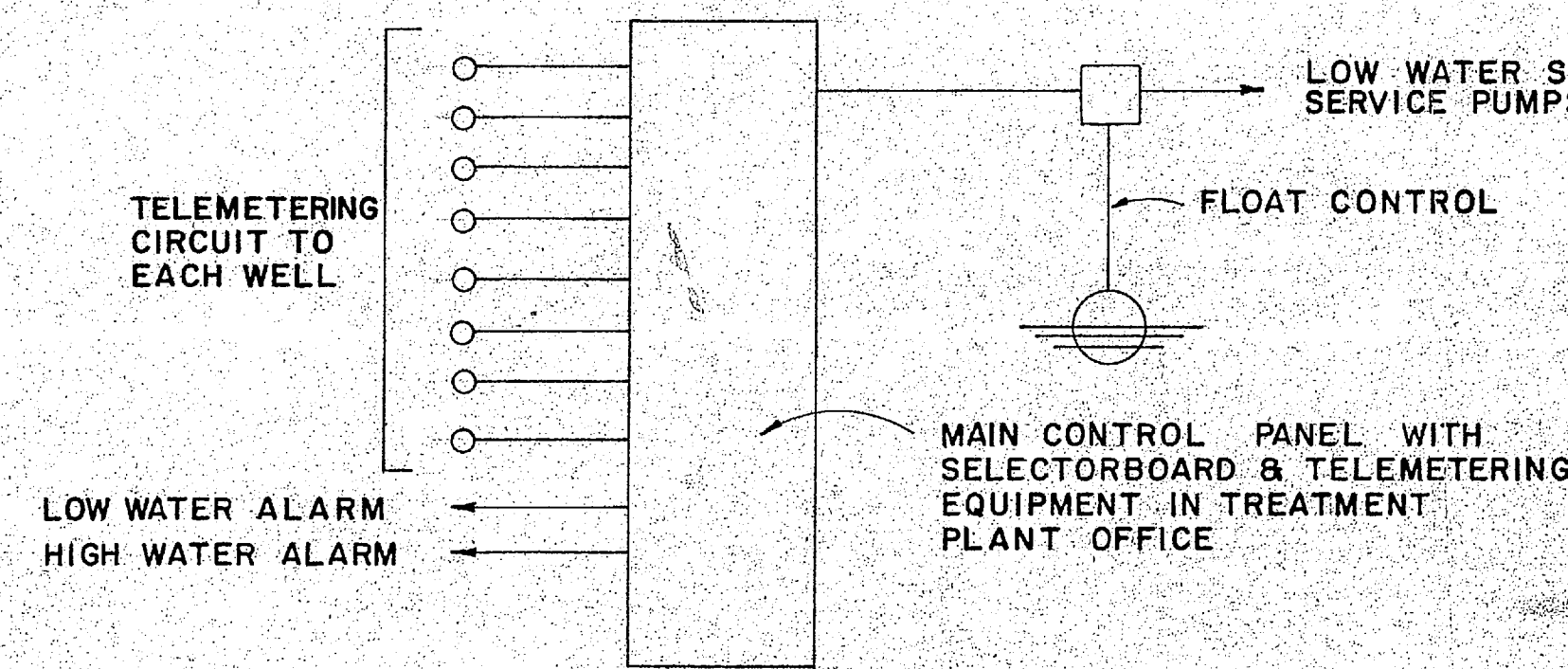
RAW WATER LINE	RW
PLANT EFFLUENT LINE	E
FINISH WATER LINES	W
BACKWASH LINES	BW
DRAIN LINES	D
LIME SOLUTION LINES	L
CHLORINE SOLUTION LINES	CL
FLUORIDE SOLUTION LINES	F
RATE CONTROLLER	RC
COLD WATER LINES	CW

**SCHEMATIC SYSTEM FLOW DIAGRAM**  
NO SCALE

**SERVICE PUMP OPERATING SCHEDULE**

WATER ELEV.	RISE LEVEL - READ UP	STOP	FALLING LEVEL - READ DOWN	STOP	G.P.M.
161.5	HIGH WATER ALARM				0
161.0	PUMP #1	PUMP #1	NO PUMPS RUNNING		
159.0	PUMP #1	PUMP #3	PUMP #1		750
157.0		PUMP #2	PUMP #3	PUMP #1	1500
155.0	PUMP #2	PUMP #4	PUMP #2		2250
153.0	PUMPS #3 & #4	RUNNING	PUMP #4	PUMP #2	3000
148.0			LOW WATER ALARM		

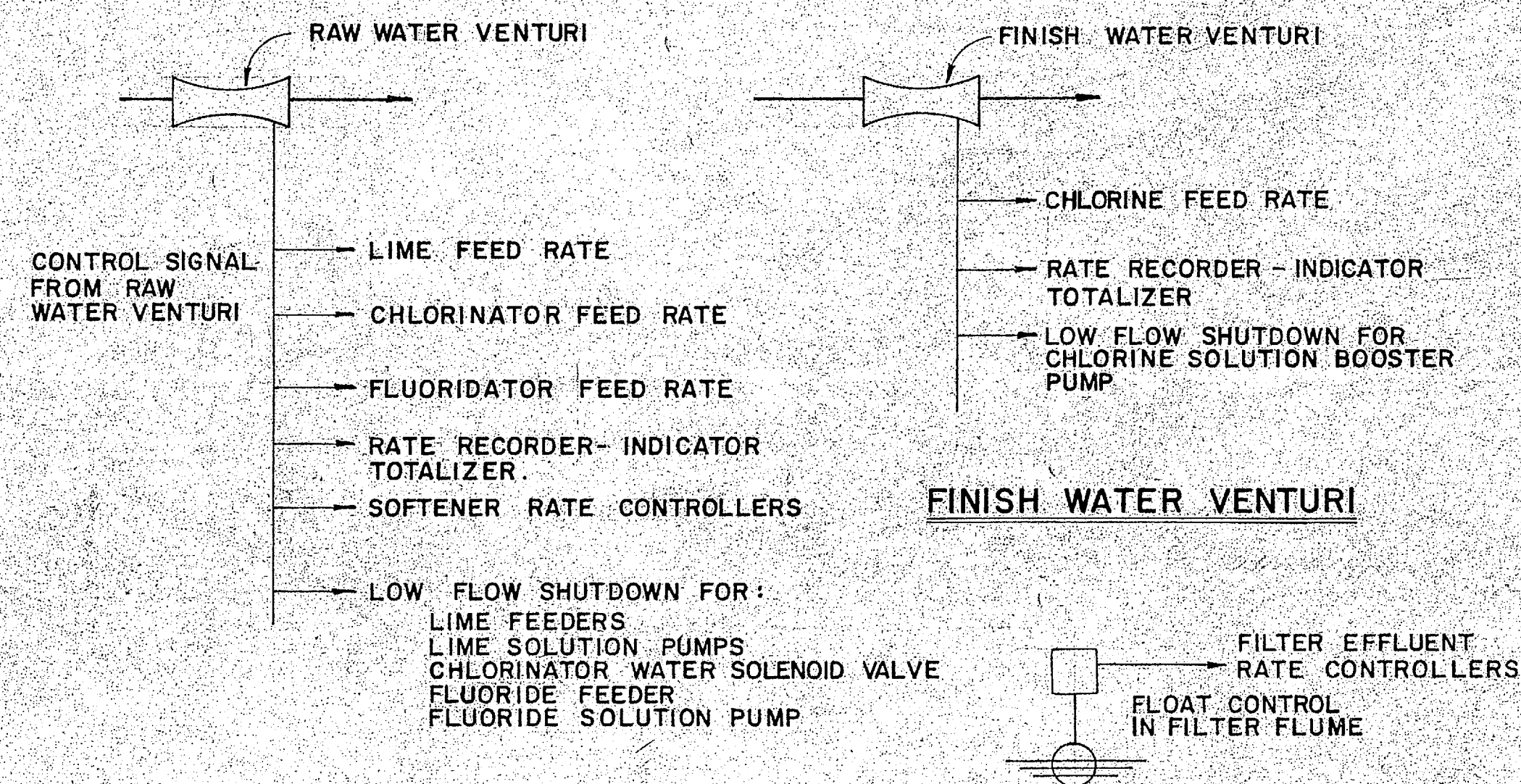
**NOTE:** PUMPS #1 & #2 TO BE MANUALLY ALTERNATED  
PUMPS #3 & #4 TO BE MANUALLY ALTERNATED



**WELL FIELD CONTROL**  
NO SCALE

**WELL OPERATING SCHEDULE**

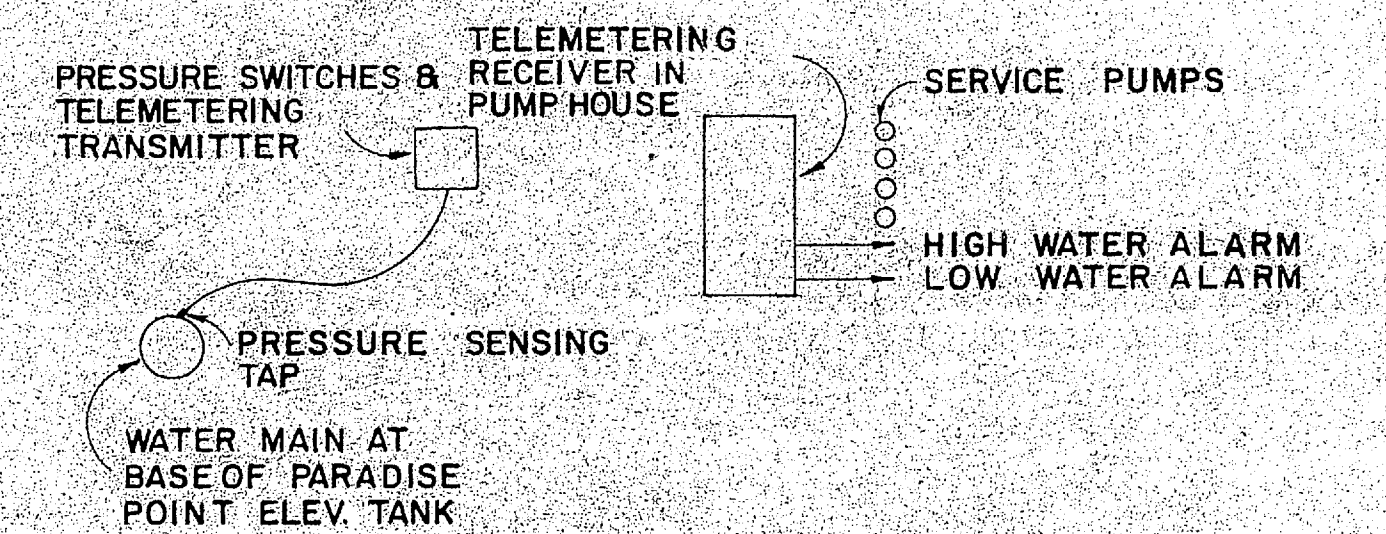
RESERVOIR WATER ELEV.	RISE LEVEL - READ UP	HIGH WATER ALARM	FALLING WATER LEVEL - READ DOWN
37.0			
36.5	STOP STEP 1		NO PUMPS RUNNING
36.16	STOP STEP 2		START STEP 1
35.83	STOP STEP 3		START STEP 2
35.5	STOP STEP 4		START STEP 3
35.16		ALL PUMPS RUNNING	START STEP 4
34.0		LOW WATER ALARM	
29.0			BACKWASH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



**RAW WATER VENTURI**

**FINISH WATER VENTURI**

**TREATMENT PLANT CONTROLS**  
NO SCALE



**SERVICE PUMP CONTROLS**

HENRY VON GEBEN & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, N.C.		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION NORFOLK, VA.	
DESIGNED BY: J.R.B. / W.S.	DATE: 12/28/70	WATER TREATMENT PLANTS, WELLS AND DISTRIBUTION SYSTEM CAMP LEJEUNE, NORTH CAROLINA	
SUBMITTED BY: J.R.B.		FLOW DIAGRAM	
DATE: 12/28/70	DATE: 12/28/70	FLOW DIAGRAM	
APP. NO. 10	DATE: 12/28/70	SIZE: 80091	PROJECT NUMBER: 1338931
APPROVED: [Signature]	DATE: 12/28/70	PROJECT CODE: NE270-70-B-0959	START: 43 OF 49
PUBLIC WORKS OFFICER: [Signature]		EPI: 84931	

