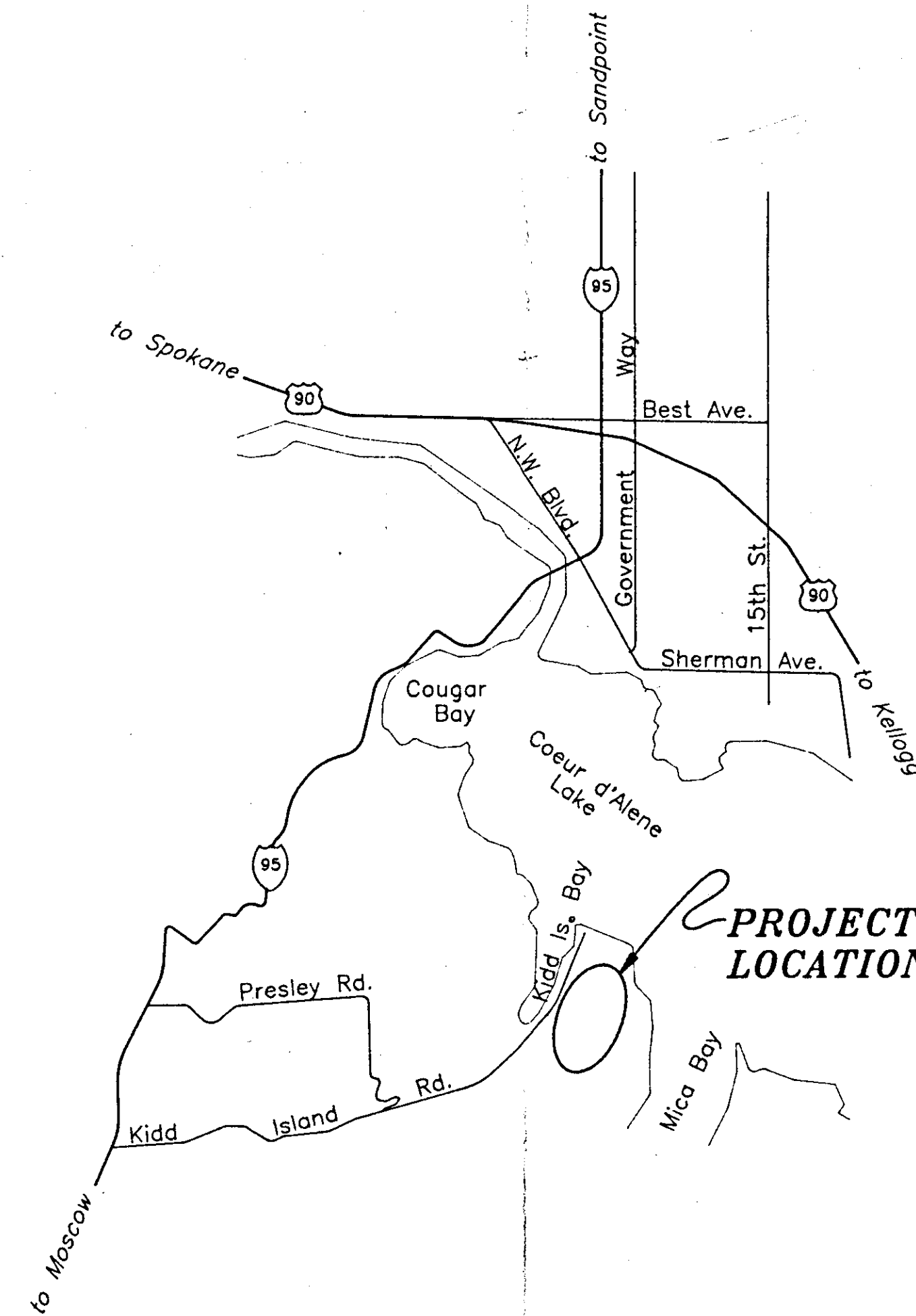


HARBOR VIEW ESTATES, INC.

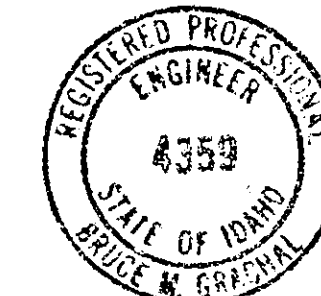
1990

SLOW SAND FILTER AND RESERVOIR



LOCATION MAP

Scale: 1" = 1 Mile



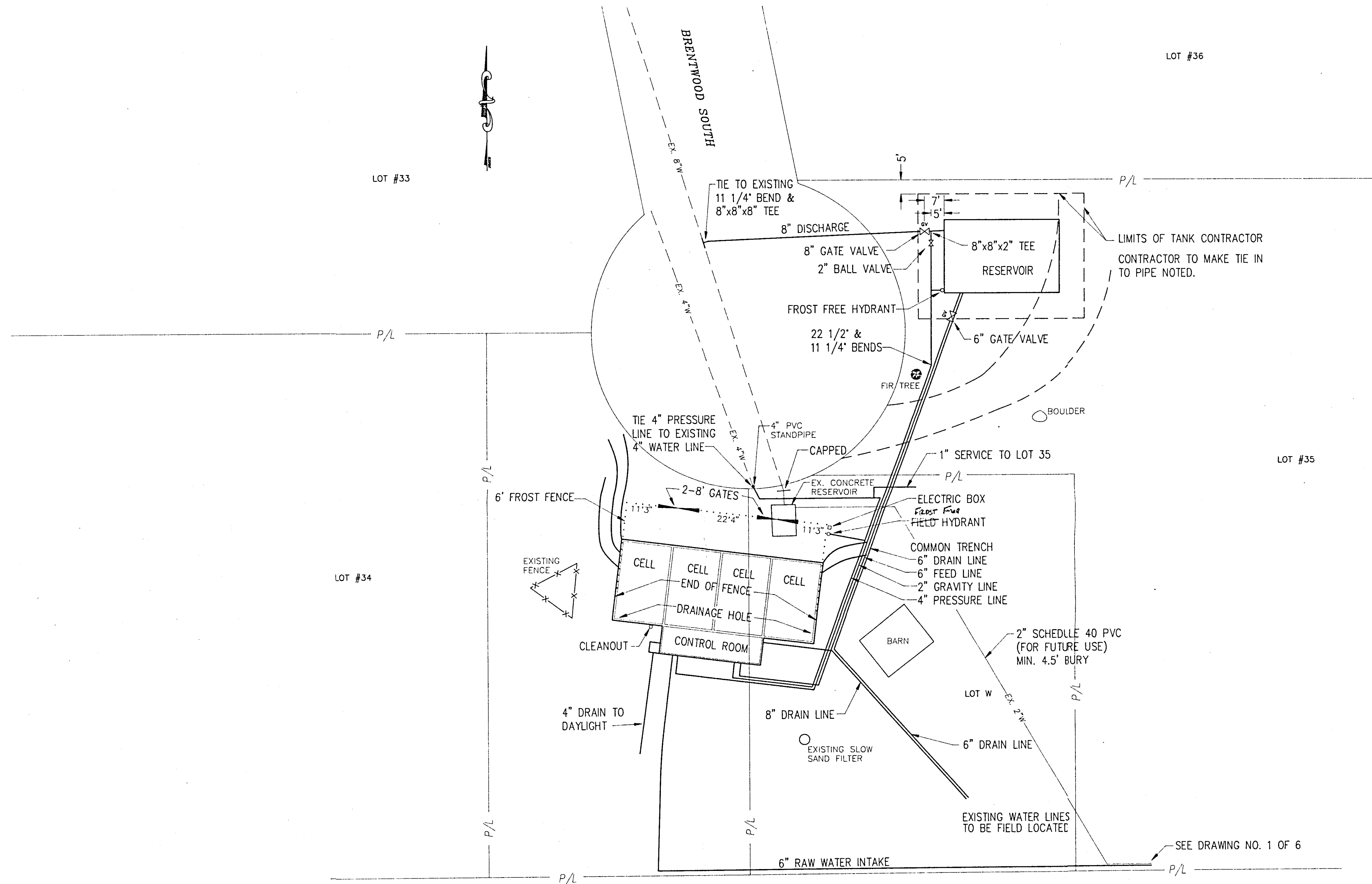
Bruce Yeager
10-26-90

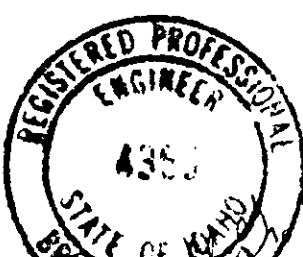
ENGINEER

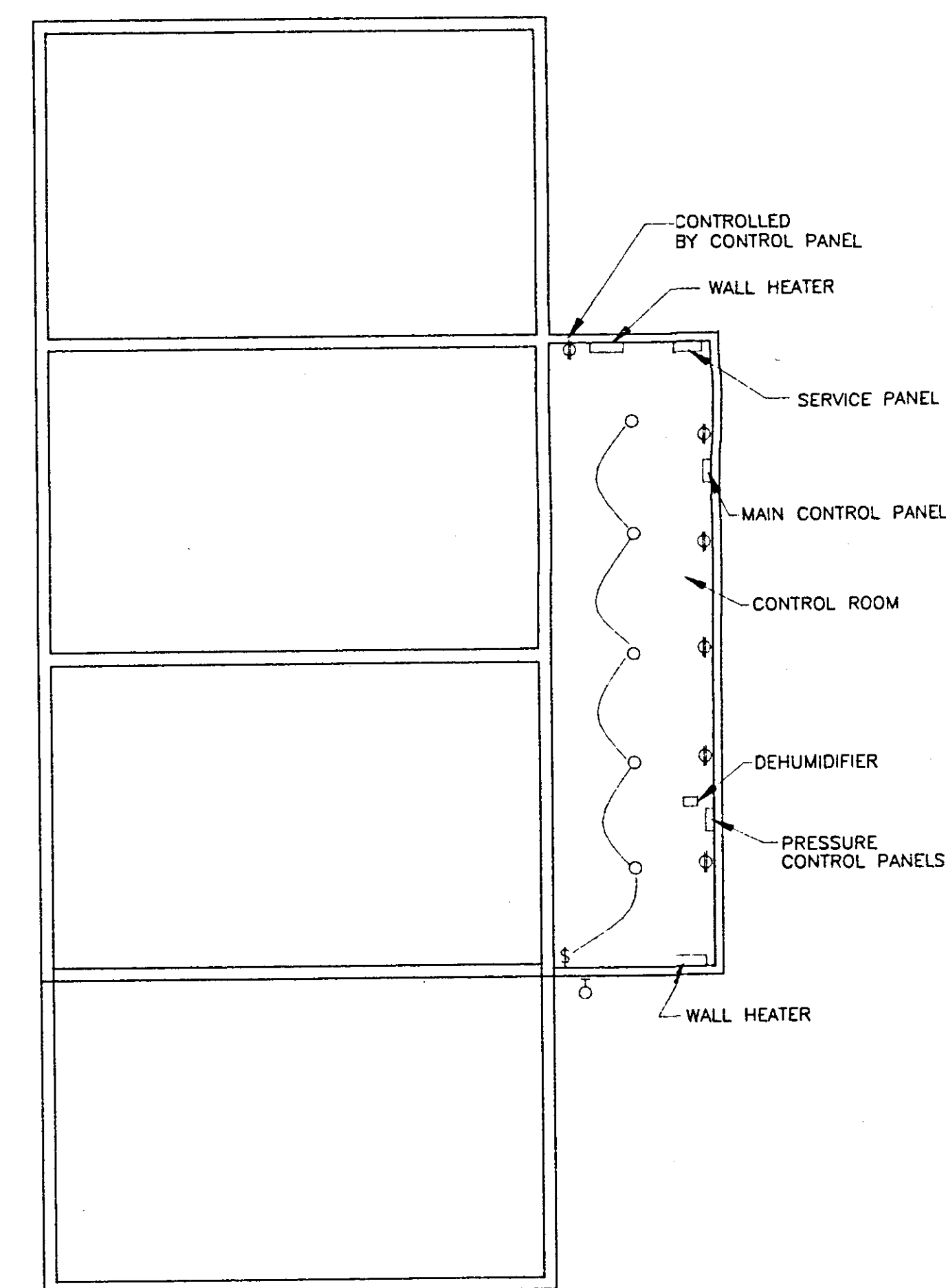
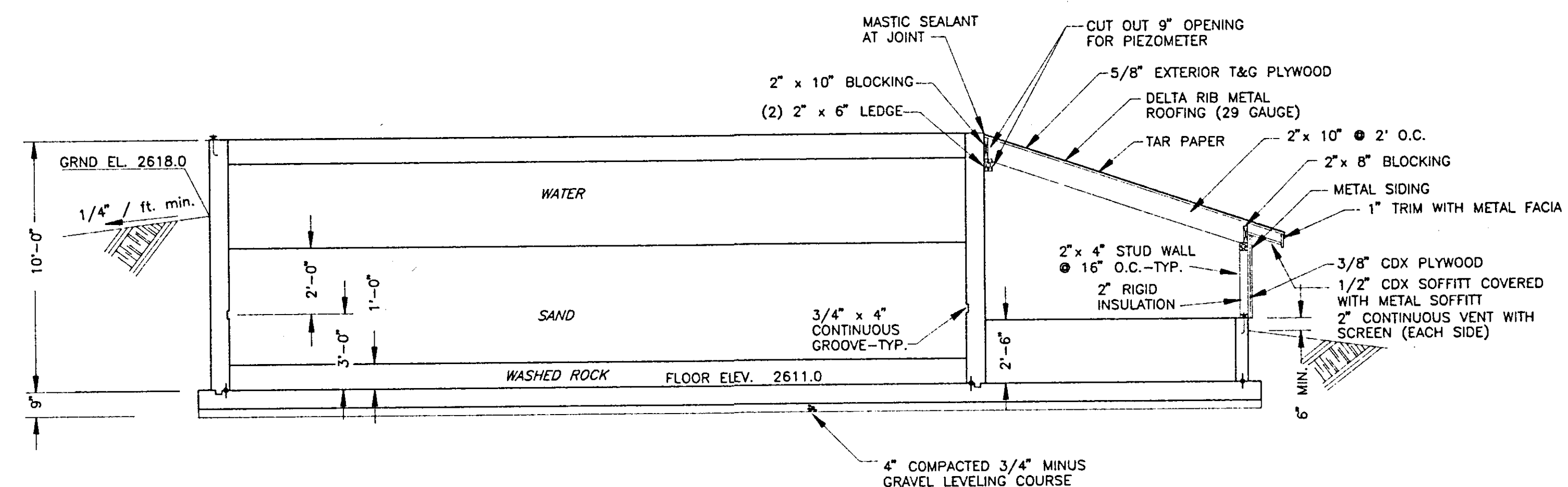
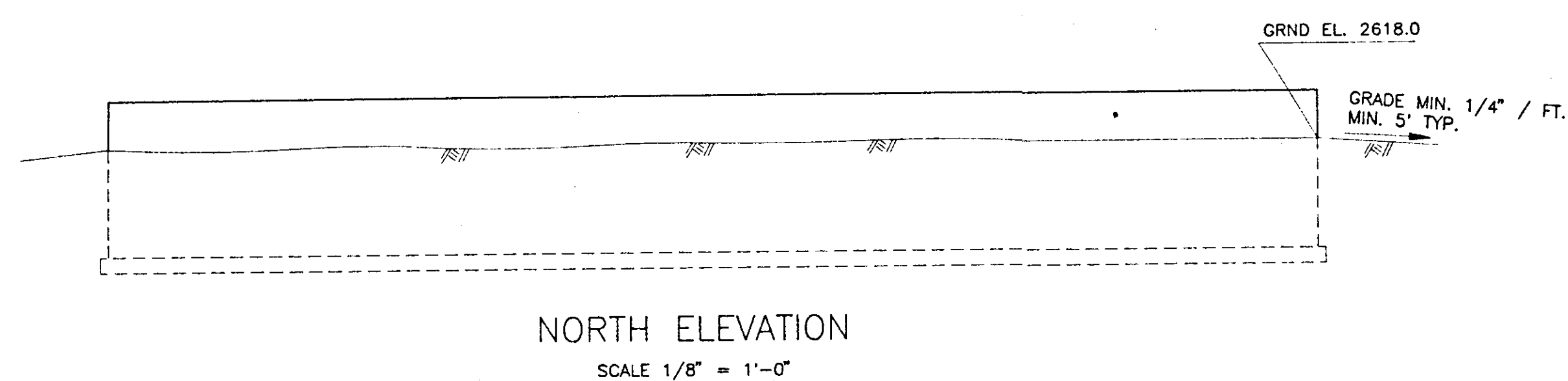
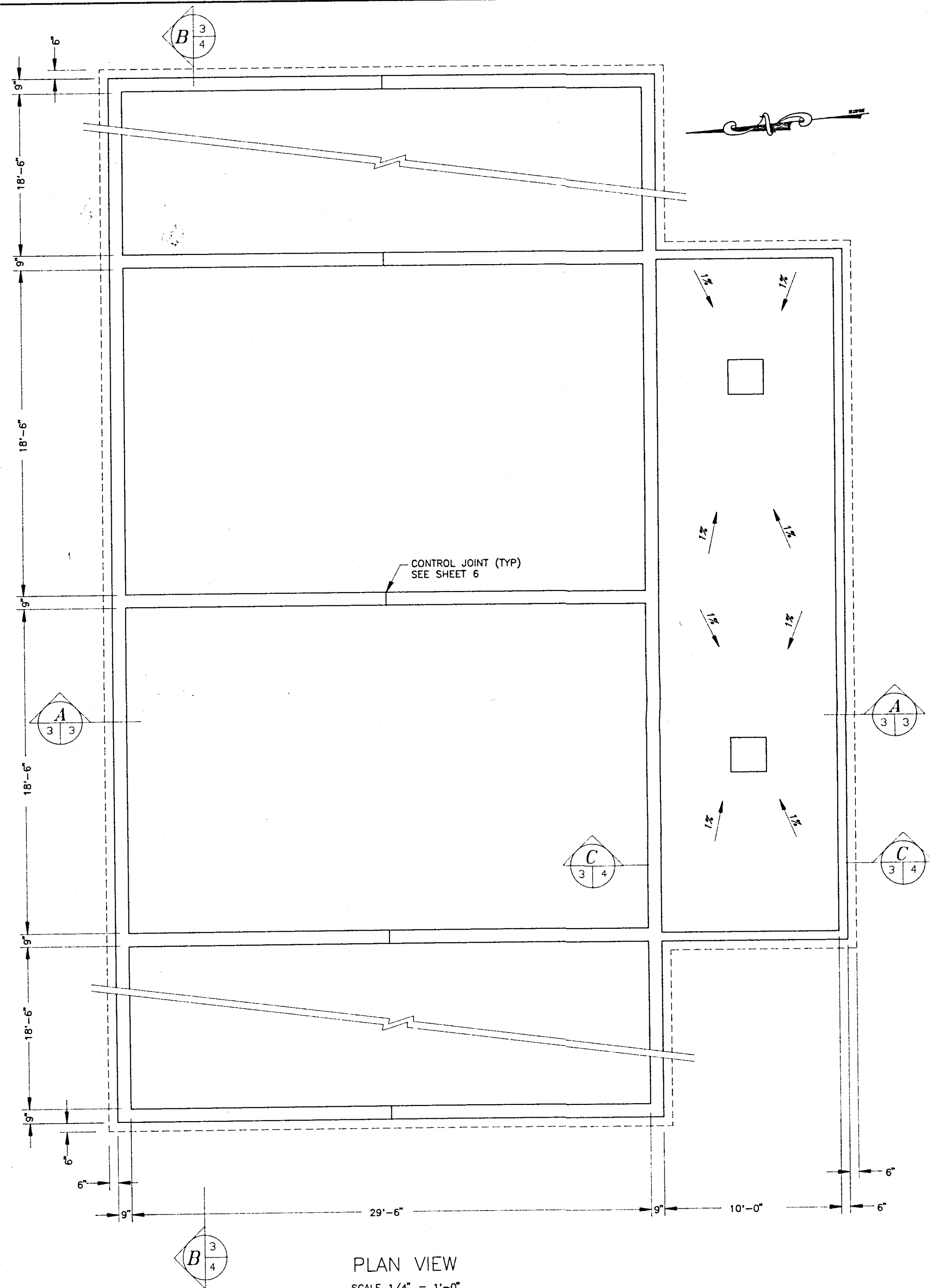
OWNER
HARBOR VIEW ESTATES, INC.
P.O. BOX 1506
COEUR D'ALENE, IDAHO 83814

RUEN-YEAGER & ASSOCIATES, INC.
1119 IRONWOOD PARKWAY, SUITE 200
COEUR D'ALENE, IDAHO 83814

95-08497



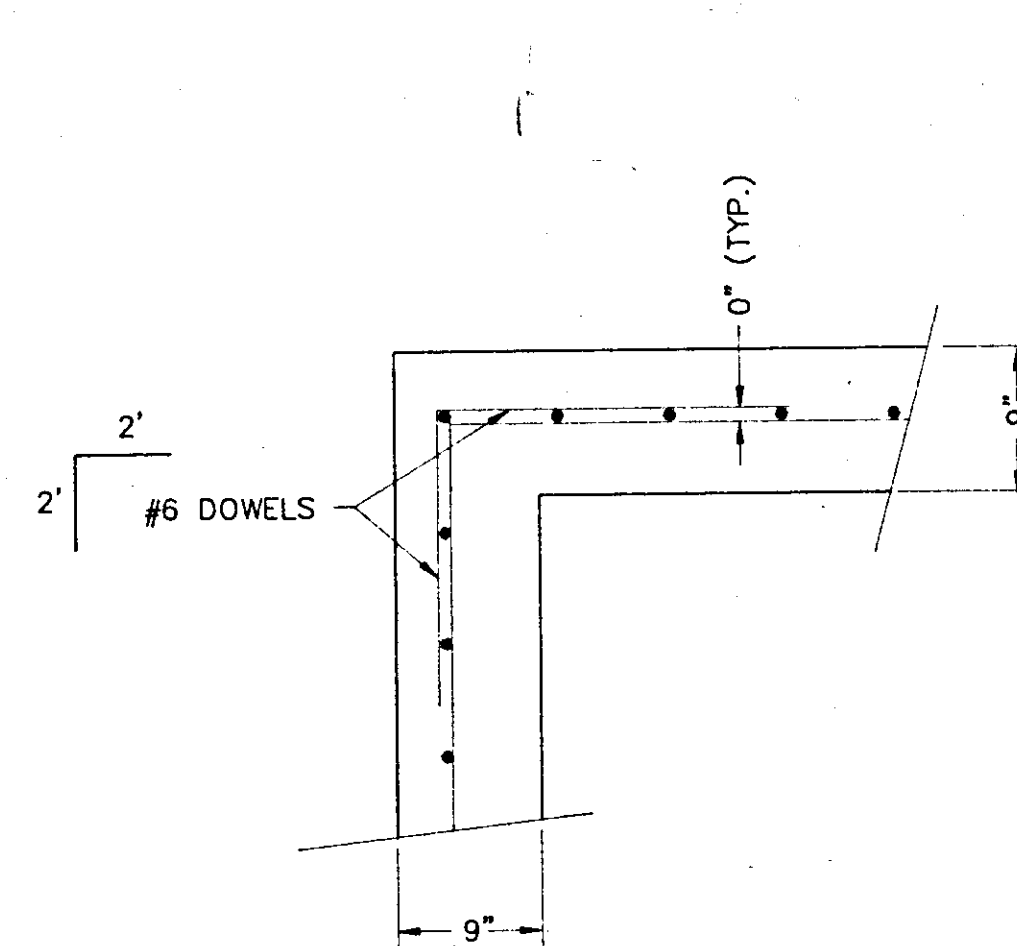
1	RECORD DRAWING	G.W.N.	12-3-91
NO.	REVISION	BY	DATE
PROJECT NUMBER	HARBOR VIEW ESTATES SLOW SAND FILTER SITE		
241F			
FILE NAME			
D241F_2			
			
RUEN-YEAGER & ASSOCIATES, INC. Consulting Engineers		SCALE	1" = 20'
1119 Ironwood Parkway, Suite 200 Coeur d' Alene, Idaho 83814		DESIGN BY	DRAWN BY
		G.W.N.	
		DATE	DSM
SEPT. 1990	SHEET	2 OF 7	
PLOT DATE			
12-12-91			



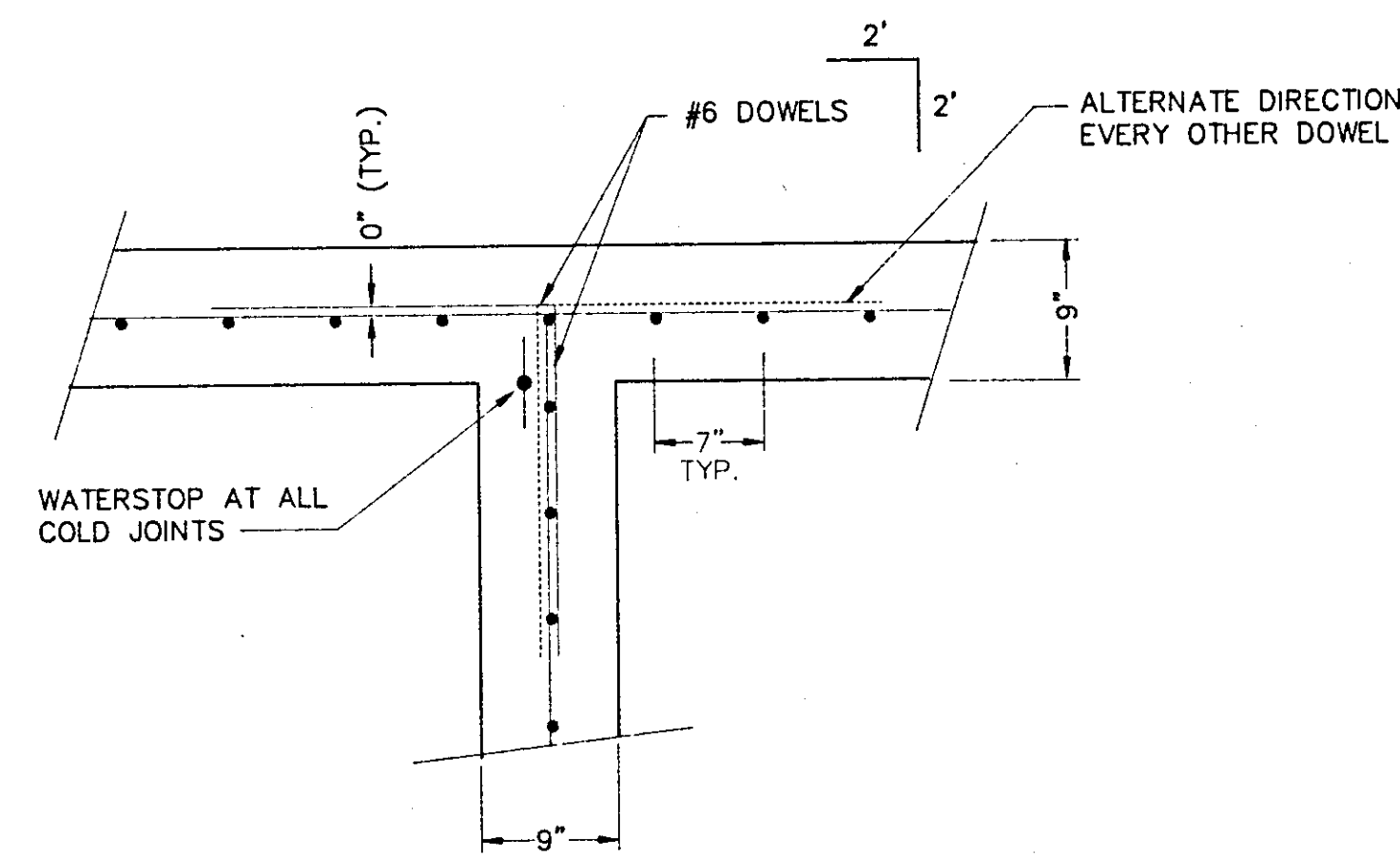
- \$ SINGLE POLE SWITCH
- CEILING MOUNTED LIGHT FIXTURE
- ⊖ EXTERIOR MOUNTED LIGHT 175W FIXTURE WITH PHOTO ELECTRIC CELL
- ⊕ DUPLEX RECEPTACLE

NOTE:
ALL CONCRETE CURING COMPOUNDS USED IN CONSTRUCTION MUST BE LISTED ON THE EPA APPROVED LIST FOR USE WITH POTABLE WATER VESSELS.

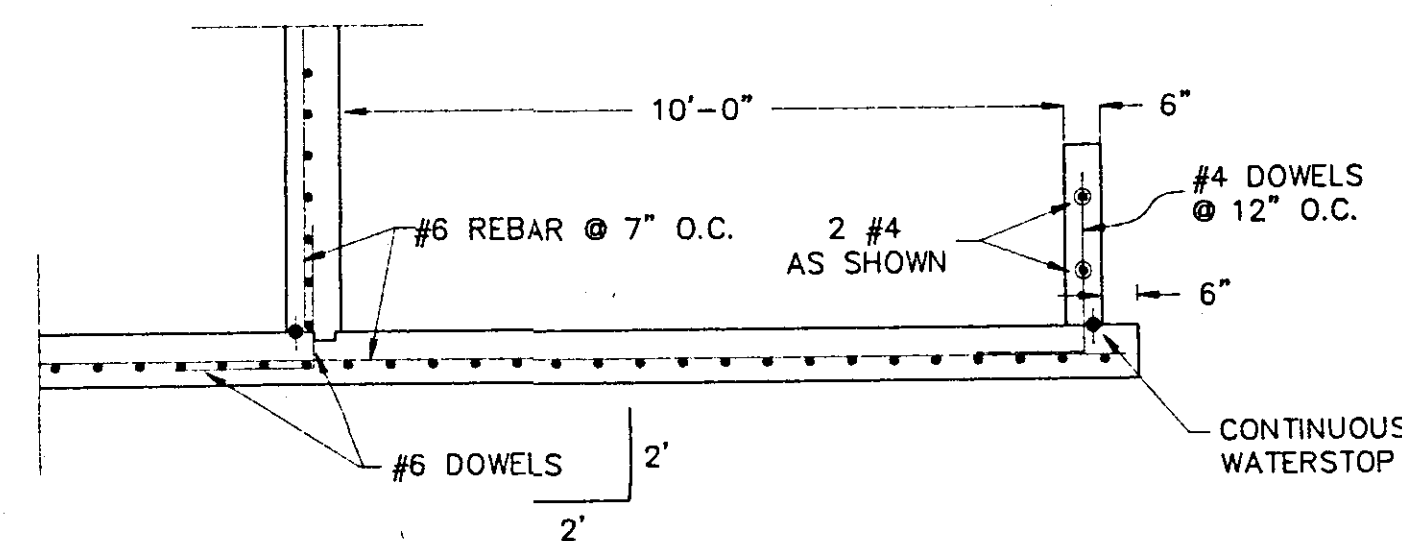
1	RECORD DRAWING	G.W.N.	12-3-91
NO.	REVISION	BY	DATE
PROJECT NUMBER	241F	HARBOR VIEW ESTATES SLOW SAND FILTER RUEN-YEAGER & ASSOCIATES, INC. <i>Consulting Engineers</i> 1119 Ironwood Parkway, Suite 200 Coeur d'Alene, Idaho 83814	
FILE NAME	D241F_3		
REGISTERED PROFESSIONAL ENGINEER	4359		
STATE OF IDAHO	12-110-91		
PLOT DATE	12-3-91	SCALE	AS NOTED
DESIGN BY	G.W.N.	DRAWN BY	JLG / DSM
DATE	SEPT. 1990	SHEET	3 of 7



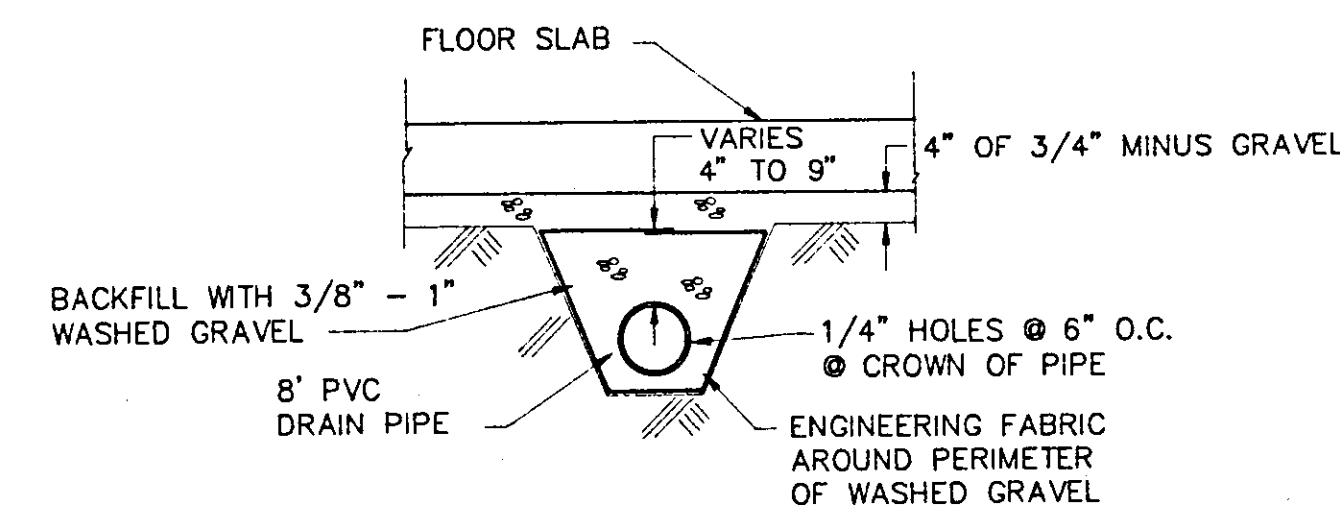
CORNER REINFORCEMENT DETAIL
PLAN VIEW
Scale 1" = 1'-0"



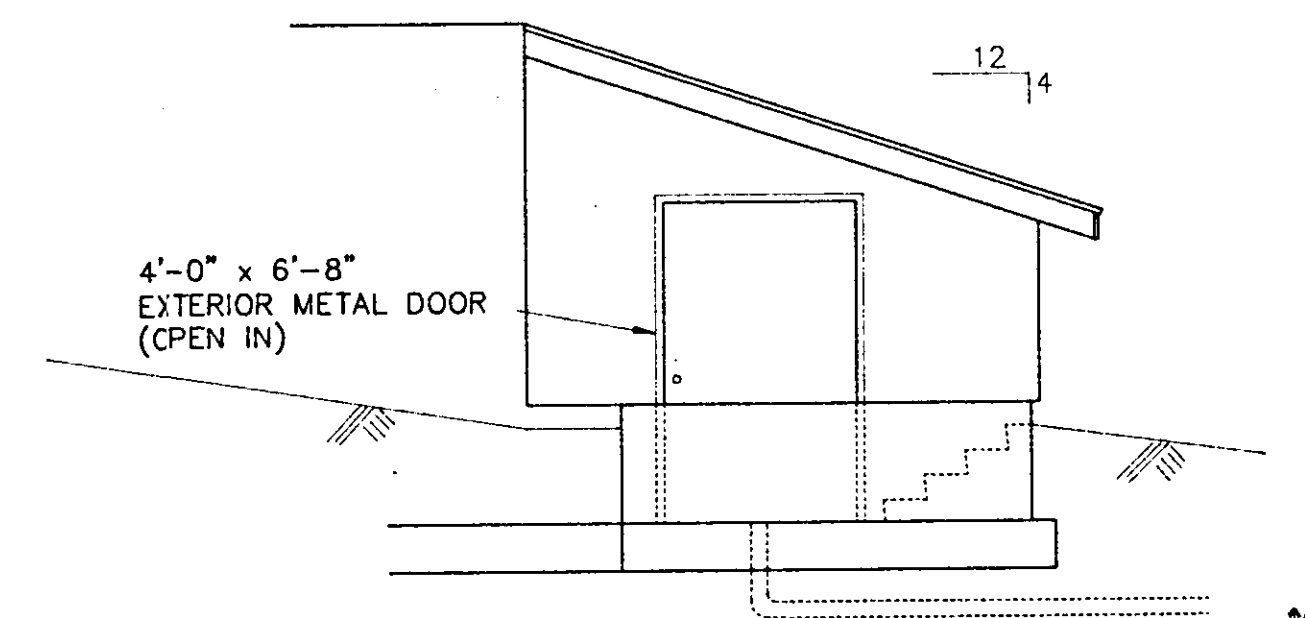
WALL INTERSECTION
REINFORCEMENT DETAIL
PLAN VIEW
Scale 1" = 1'-0"



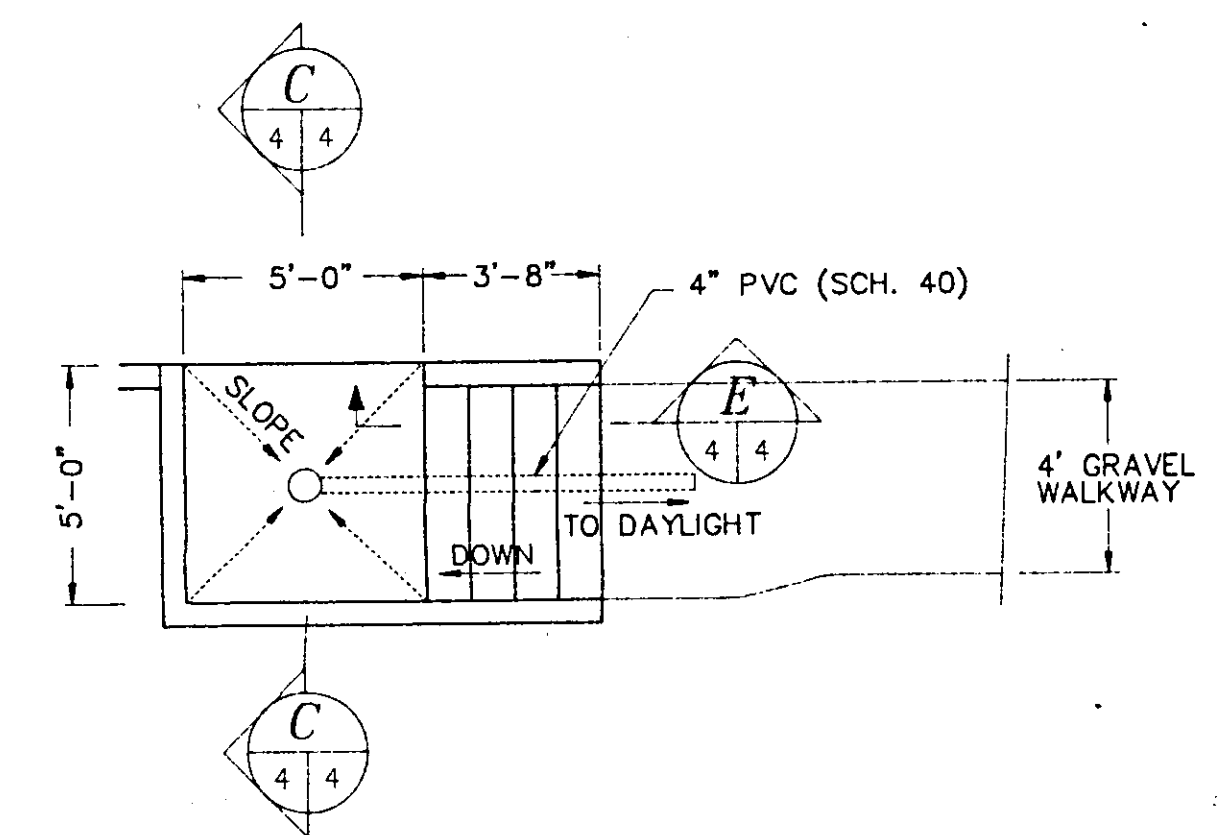
SECTION C
REINFORCEMENT DETAIL
3/8" = 1'-0"



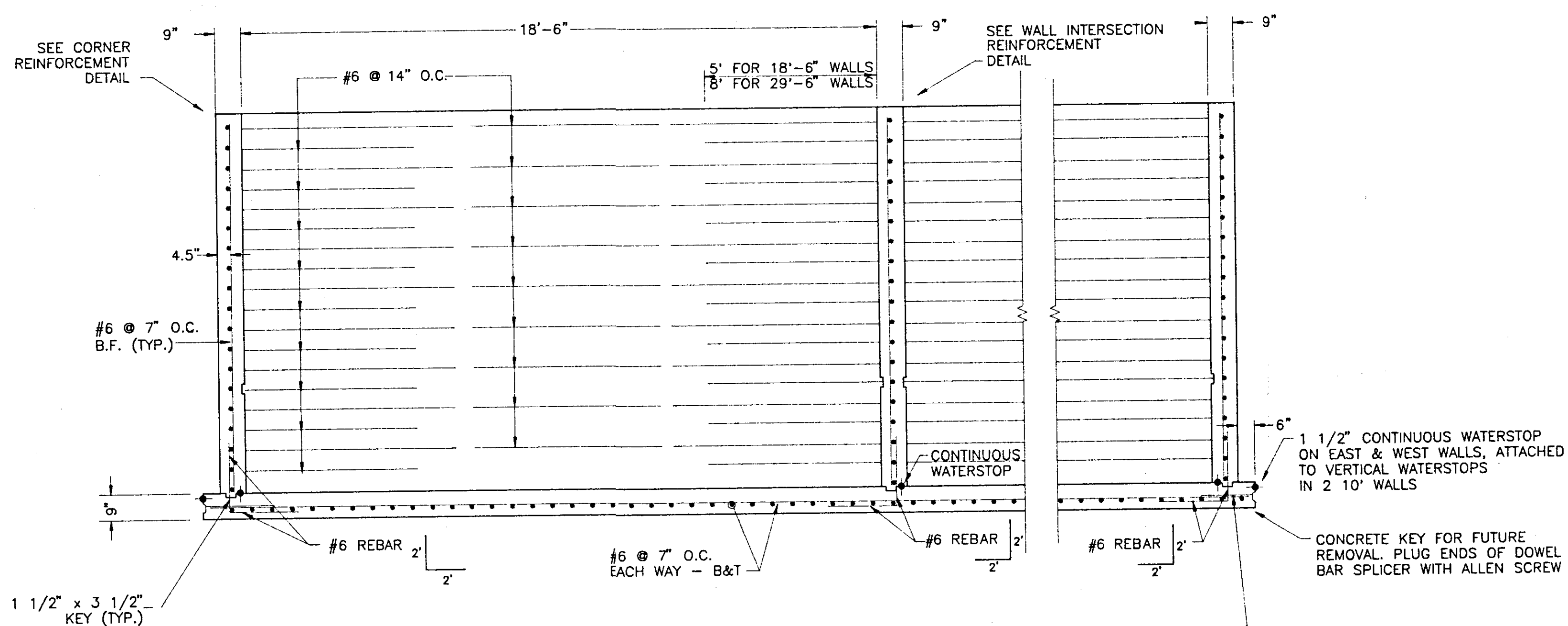
8" DRAIN PIPE
BEDDING DETAIL
Scale 1/2" = 1'-0"



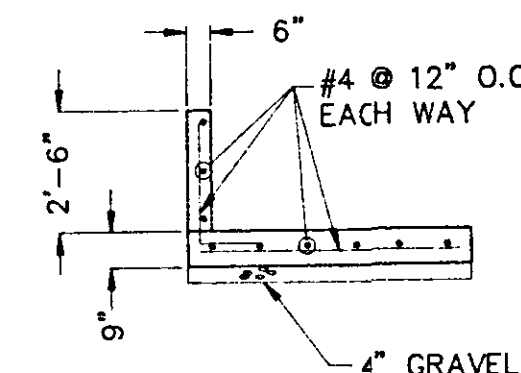
ENTRYWAY
Scale 1/4" = 1'-0"



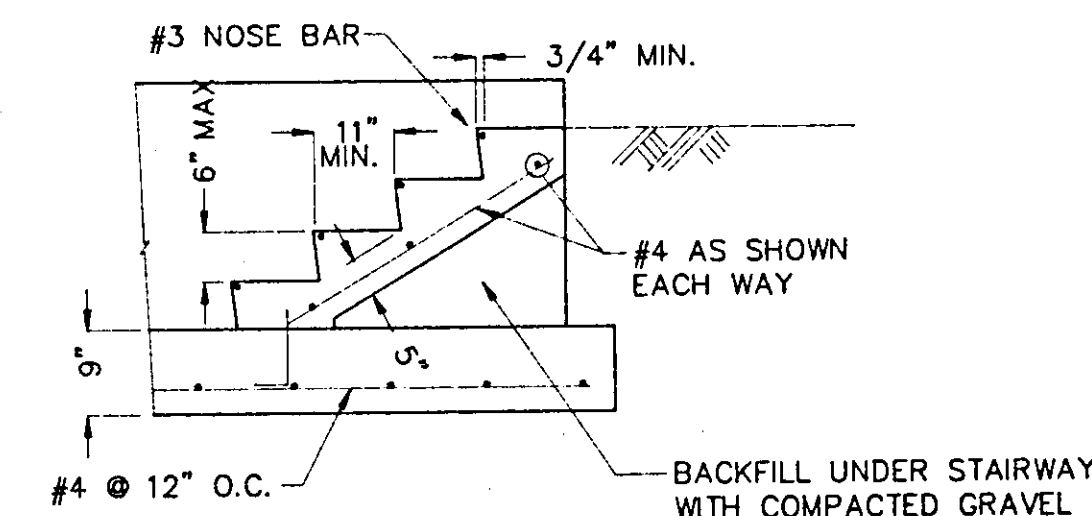
CONCRETE STAIRS
TO CONTROL ROOM
Scale 1/4" = 1'-0"



SECTION B
REINFORCEMENT DETAIL
Scale: 3/8" = 1'



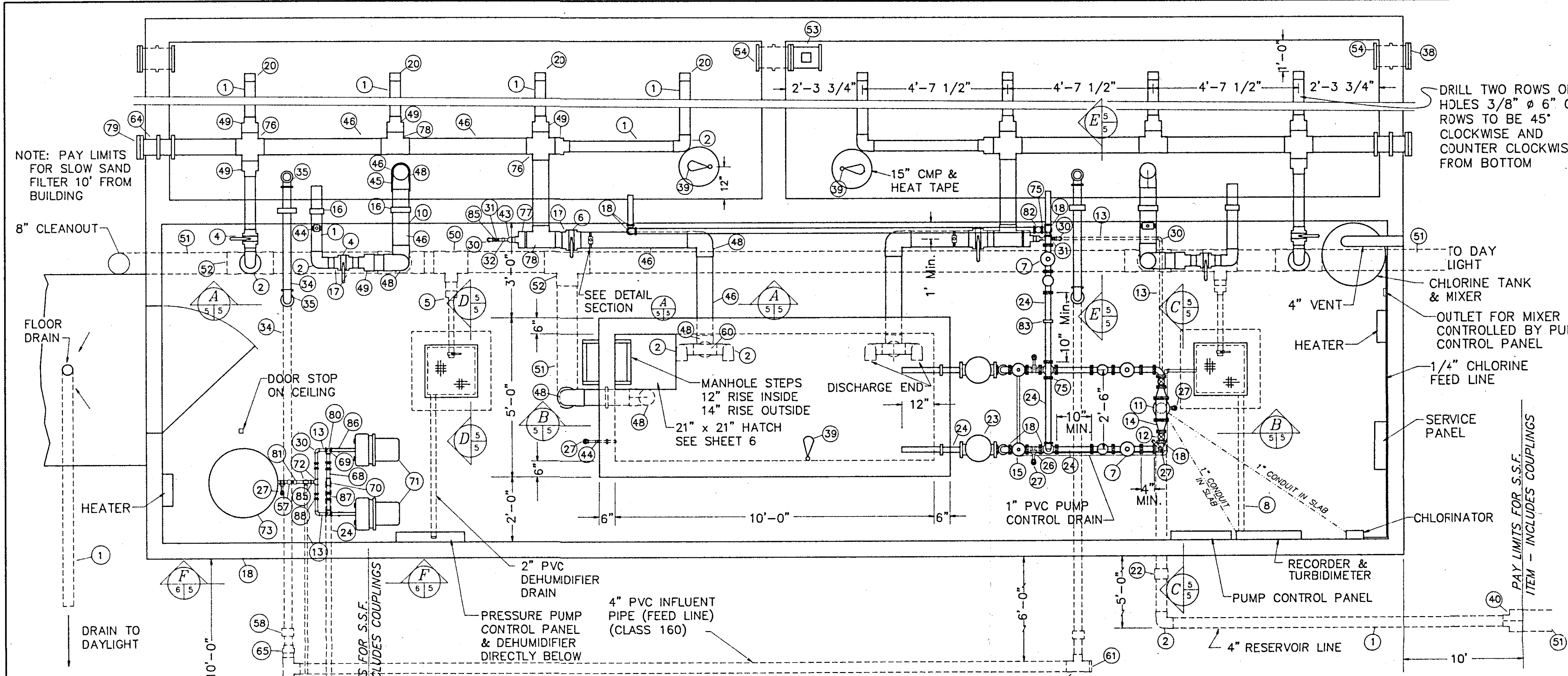
SECTION C
Scale 1/4" = 1'-0"



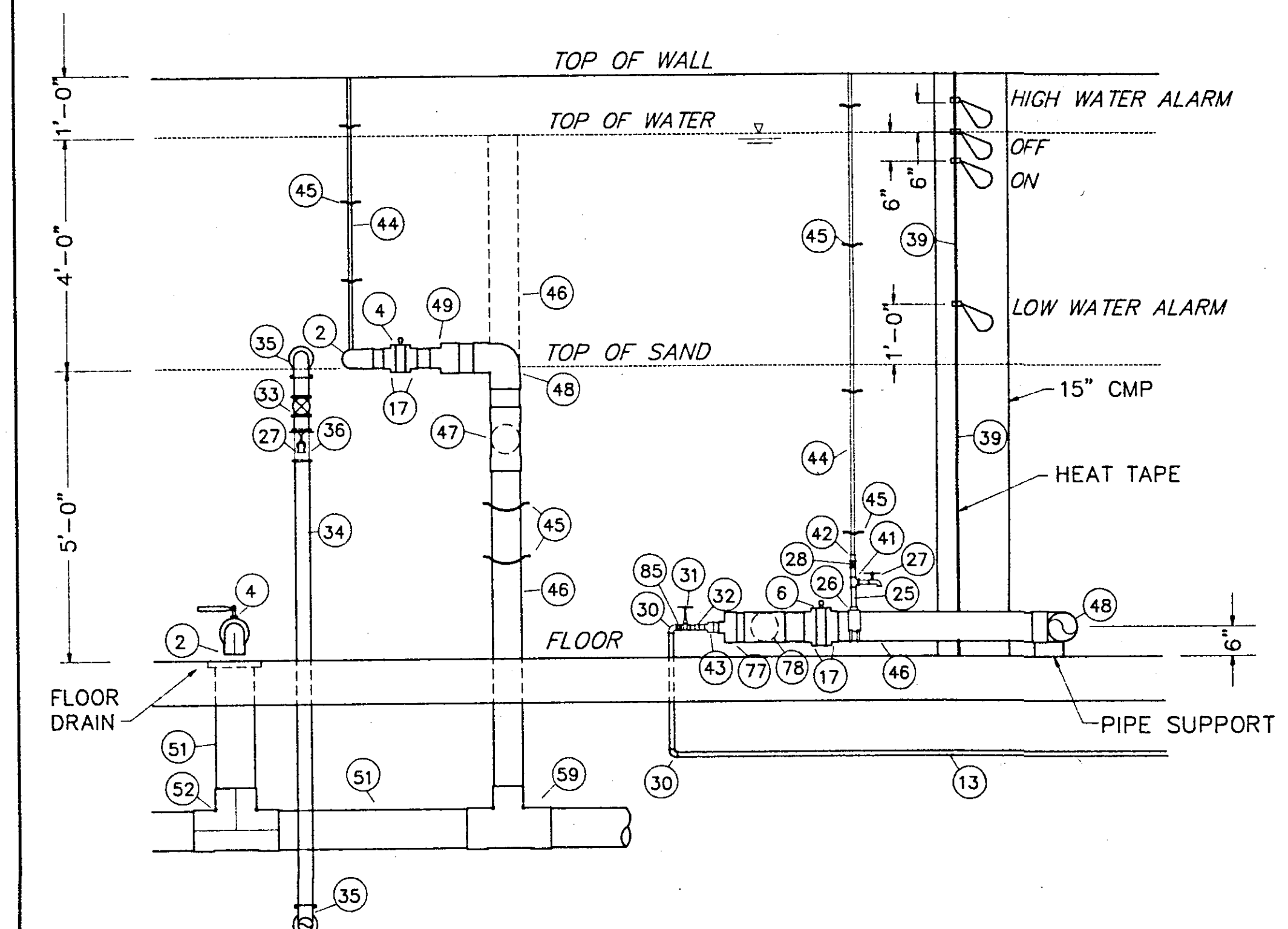
SECTION E
Scale 1/2" = 1'-0"

NOTE:
SEE SLOW SAND FILTER DRAWING SHEET 5
FOR ADDITIONAL STEEL AND CONDUIT.

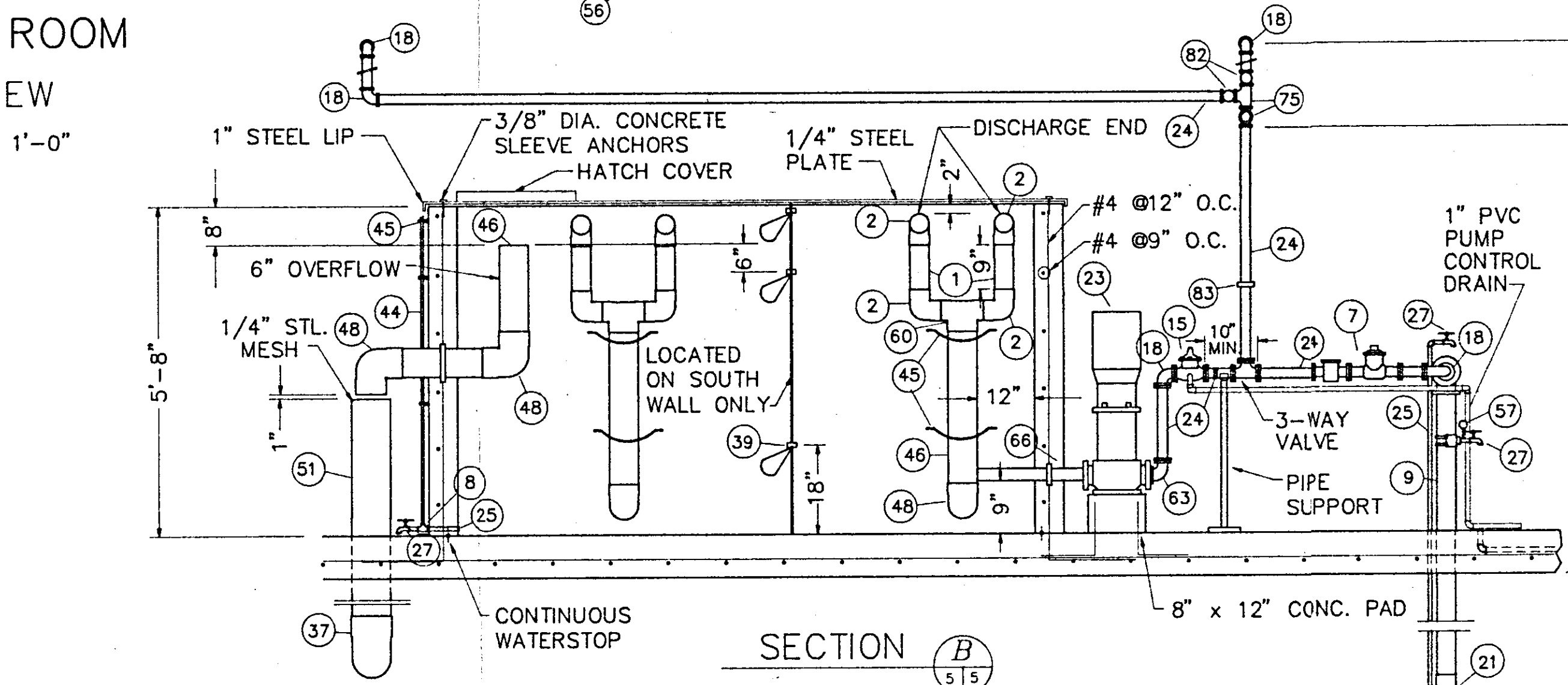
1	RECORD DRAWING	G.W.N.	12-3-91
NO.	REVISION	BY	DATE
PROJECT NUMBER	241F		
FILE NAME	D241F-4		
HARBOR VIEW ESTATES SLOW SAND FILTER DETAILS			
RUEN-YEAGER & ASSOCIATES, INC. Consulting Engineers 1119 Ironwood Parkway, Suite 200 Coeur d'Alene, Idaho 83814		SCALE AS NOTED DESIGN BY G.W.N. DRAWN BY DSM/JLC DATE SEPT. 1990 SHEET 4 of 7	
PLOT DATE	12-13-91		



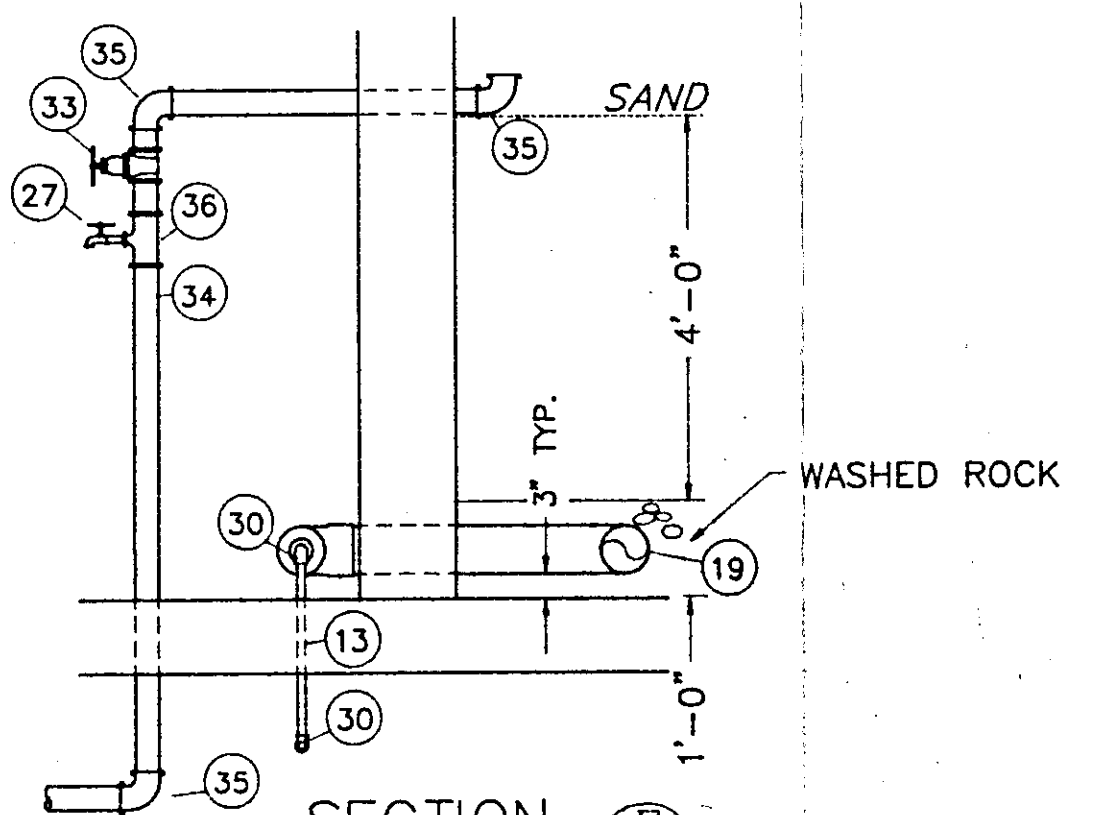
CONTROL ROOM
PLAN VIEW
SCALE 1/2" = 1'-0"



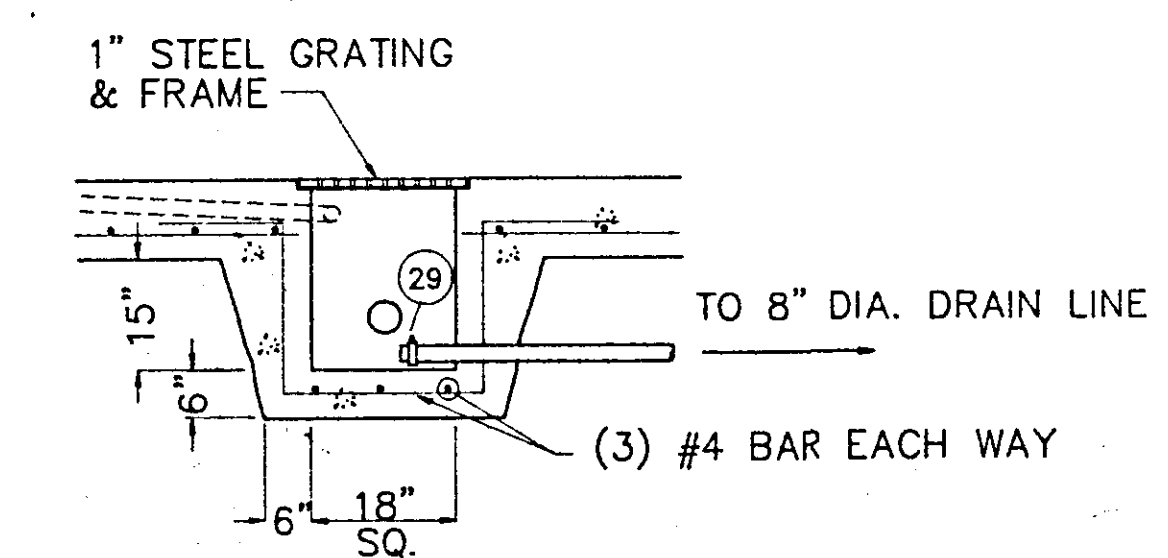
SECTION A
SCALE 1/2" = 1'-0"



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



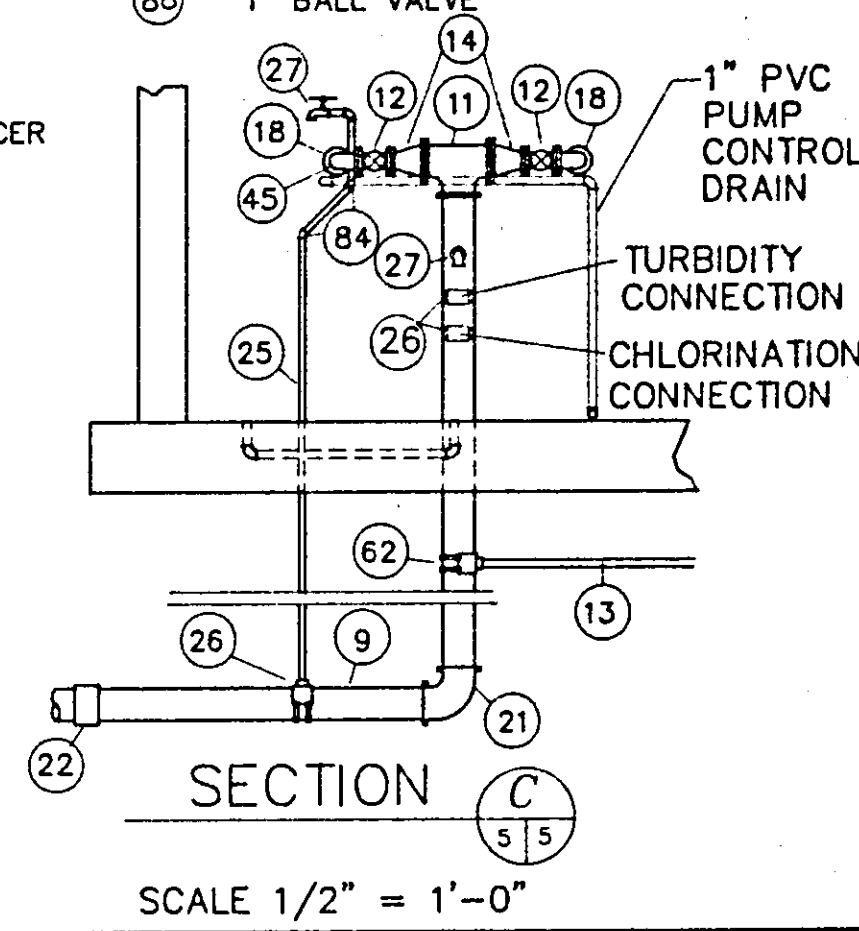
SECTION E
SCALE 1/2" = 1'-0"



SECTION D
SCALE 1/2" = 1'-0"

LIST OF MATERIALS

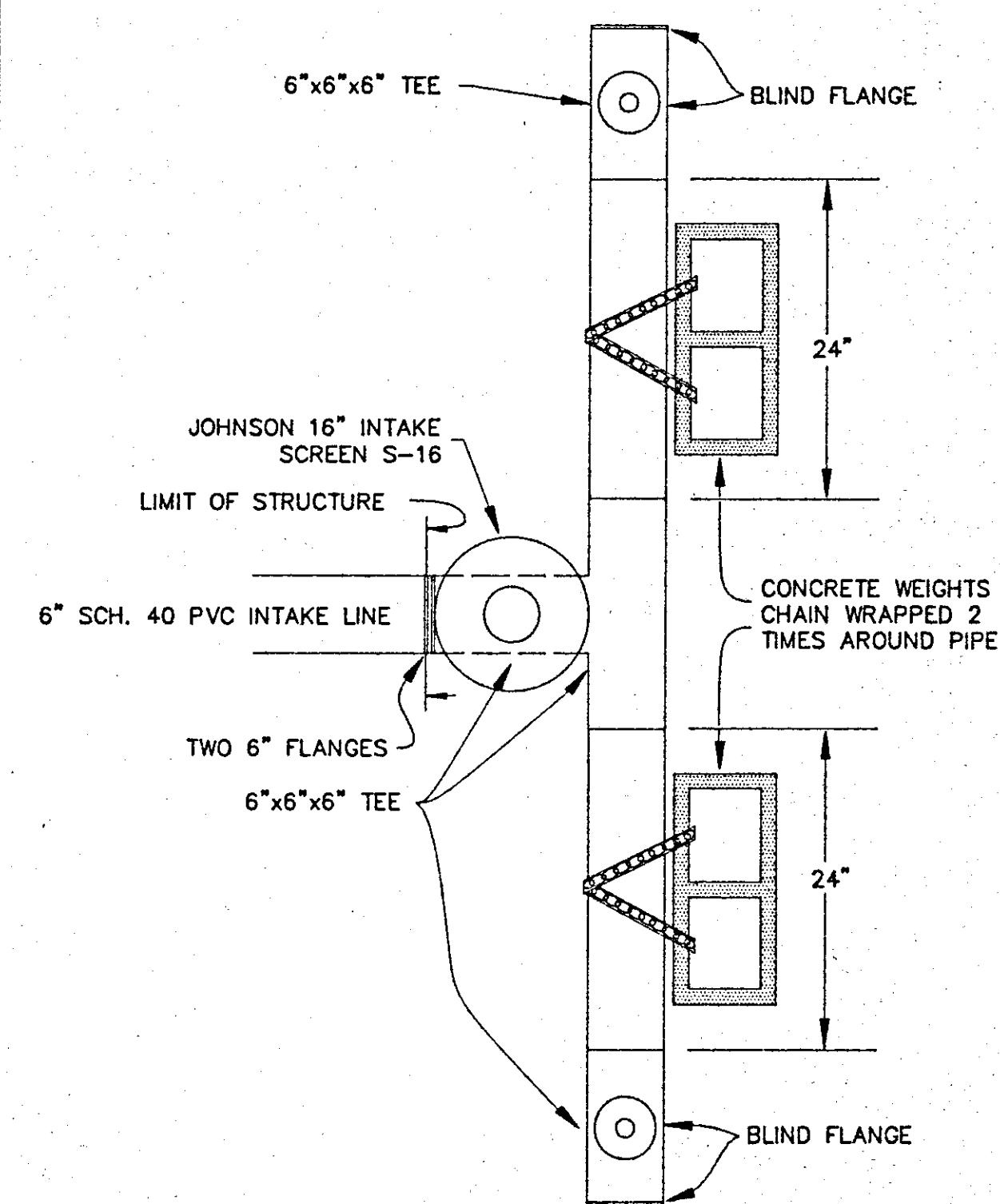
- | | |
|--|---|
| 1 4" SCH 40 PVC PIPE | 47 6" PVC TEE |
| 2 4" 90° BEND (PVC) | 48 6" PVC 90° BEND |
| 3 4"x4"x4" PVC TEE | 49 6" x 4" PVC REDUCER |
| 4 4" FLG X FLG BUTTERFLY VALVE | 50 8" x 8" x 4" PVC TEE |
| 5 4" x 2" REDUCER (PVC) | 51 8" 160 CLASS PVC PIPE |
| 6 6" FLG X FLG BUTTERFLY VALVE | 52 8" x 8" x 8" CLASS 160 PVC TEE |
| 7 2" TURBO - BADGER RECORDALL WITH PLATE STRAINER | 53 8" GATE VALVE |
| 8 3/4" x 1/2" TEE | 54 8" WALL SLEEVE |
| 9 4" GALV. STL. PIPE | 55 8" CLASS 160 PVC / SDR 35 PVC COUPLING ADAPTER |
| 10 1/2" GALV. TAPPING SADDLE | 56 4" x 4" x 3" PVC TEE |
| 11 4" GALV. STEEL TEE | 57 PRESSURE GAUGE WITH SHUT-OFF |
| 12 2" GATE VALVE | 58 3" GALV. STL. X PVC COUPLING ADAPTER |
| 13 1" GALV. STEEL PIPE | 59 8" x 8" x 6" PVC TEE |
| 14 4" x 2" REDUCER (GALV. STL.) | 60 4" x 4" x 6" PVC TEE |
| 15 2" PUMP CONTROL VALVE | 61 4" BLIND FLANGE |
| 16 SOLVENT WELD FLANGE | 62 1" GALV. STL. TAPPING SADDLE |
| 17 PVC FLANGE | 63 2 1/2" x 2" REDUCING ELBOW |
| 18 2" GALV. STEEL 90° BEND | 64 6" PVC WALL SLEEVE |
| 19 4" CROSS (PVC) | 65 4" x 3" PVC REDUCER |
| 20 4" PVC CAP | 66 2 1/2" GALV. STL. PIPE |
| 21 4" GALV. STEEL 90° BEND | 67 2" x 1 1/4" REDUCER |
| 22 4" PVC X 4" GALV. STL. COUPLING ADAPTER | 68 1 1/4" PIPE |
| 23 BOOSTER PUMP | 69 1 1/4" 90° BEND |
| 24 2" GALV. STL. PIPE | 70 1 1/4" TEE |
| 25 3/4" GALV. STL. PIPE | 71 1 H.P.-MEYER DEEP WELL JET PUMP |
| 26 3/4" TAPPING SADDLE | 72 1" TEE |
| 27 3/4" HOSE BIB | 73 W x 252 WELL-X-TROL PRESSURE TANK |
| 28 3/4" GATE VALVE | 74 1' x 4" REDUCER |
| 29 2" GALV. STEEL PET COCK | 75 2" GALV. STEEL TEE |
| 30 1" GALV. STL. 90° BEND | 76 6" PVC CROSS |
| 31 1" GATE VALVE | 77 6" x 2" REDUCER (PVC) |
| 32 1" PVC X GALV. STL. COUPLING ADAPTER | 78 6"x6"x6" PVC TEE |
| 33 3" GATE VALVE | 79 6" BLIND FLANGE |
| 34 3" GALV. STL. PIPE | 80 1-1/4" CHECK VALVE |
| 35 3" GALV. STL. 90° BEND | 81 PRESSURE CONTROL SWITCH |
| 36 3" x 3" x 3/4" GALV. STL. TEE | 82 2" BALL VALVE |
| 37 8" SCHEDULE 40 90° BEND | 83 2" UNION |
| 38 8" BLIND FLANGE | 84 3/4" GALV. STL. 45° BEND |
| 39 FLOAT CONTROLS | 85 1" UNION |
| 40 8" x 4" REDUCING COUPLER | 86 1-1/4" UNION |
| 41 3/4" GALV. STL. TEE | 87 1-1/4" BALL VALVE |
| 42 3/4" x 1/2" GALV. STL. REDUCER | 88 1" BALL VALVE |
| 43 2" x 1" REDUCER | |
| 44 1/2" SIGHT TUBE ATTACHED TO WALL | |
| 45 PIPE SUPPORT HANGERS WITH CONCRETE SLEEVE ANCHORS | |
| 46 6" SCH 40 PVC PIPE | |



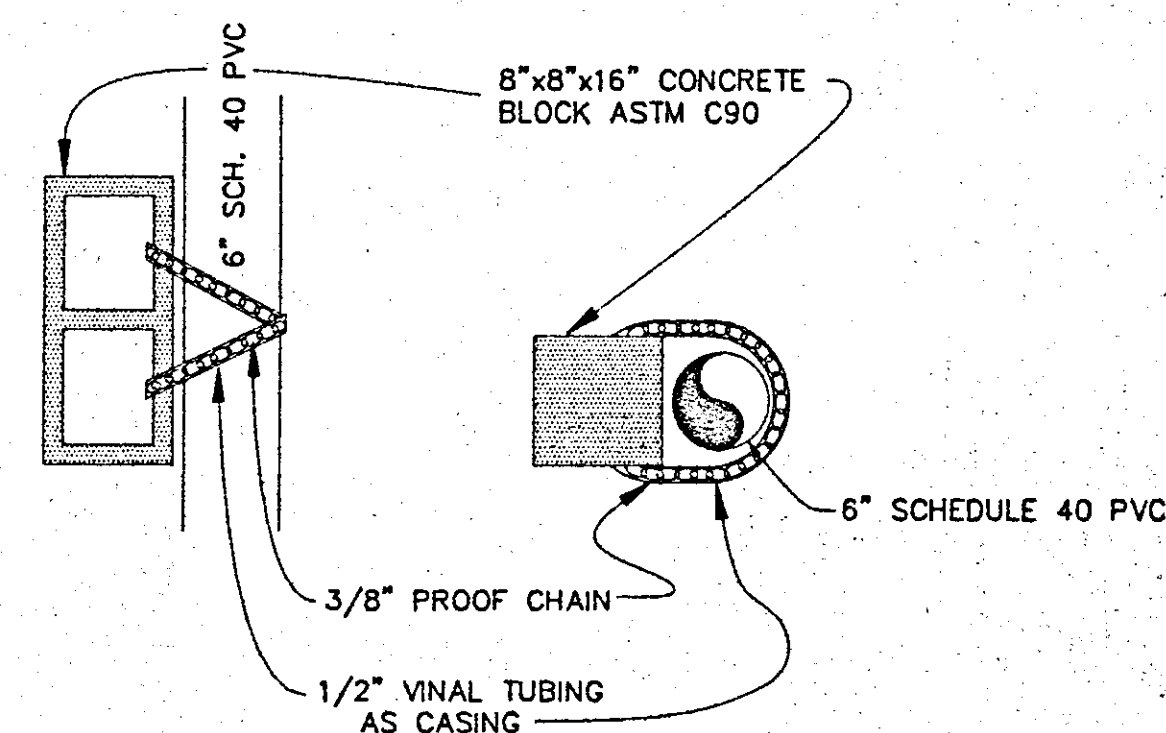
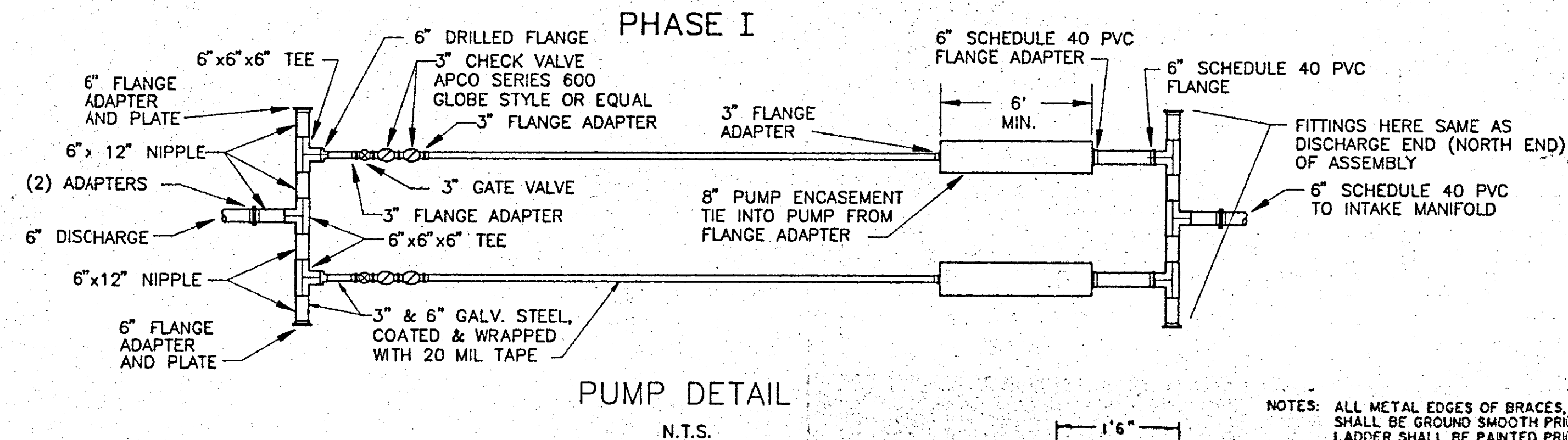
SECTION C
SCALE 1/2" = 1'-0"

2	RECORD DRAWING	G.N.	12-10-91
1	EFFLUENT PIPE MODIFICATION	G.N.	4-17-91
NO.	REVISION	BY	DATE
PROJECT NUMBER 241F			
FILE NAME D241F-5			
		HARBOR VIEW ESTATES SLOW SAND FILTER PIPING	
		RUEN-YEAGER & ASSOCIATES, INC. Consulting Engineers 1119 Ironwood Parkway, Suite 200 Coeur d'Alene, Idaho 83814	
PLOT DATE 12-12-91	SCALE 1/2" = 1'-0"	DESIGN BY B.M.G.	DRAWN BY D.M.
		DATE 7-12-90	SHEET 5 OF 7

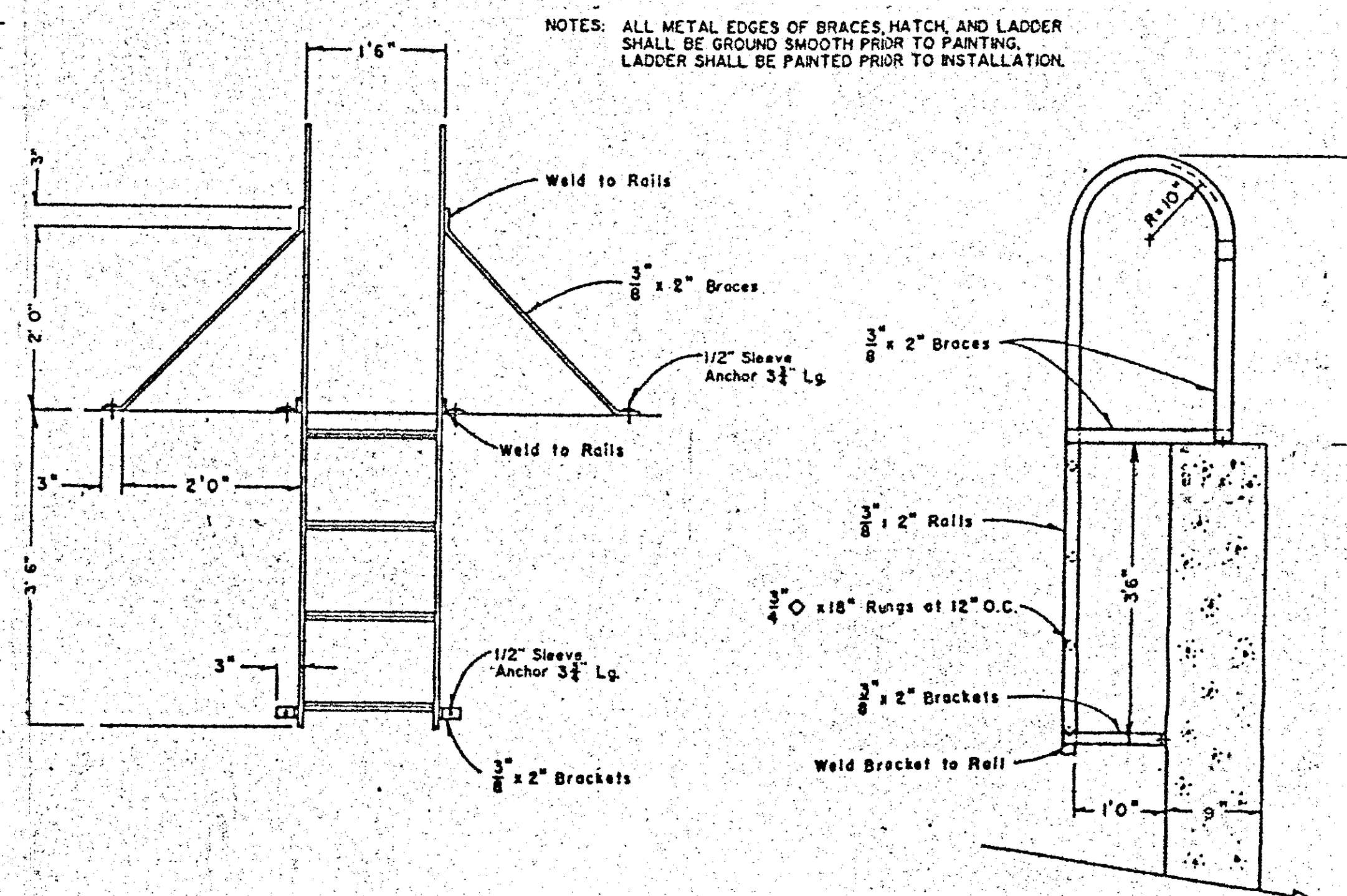
95-08497



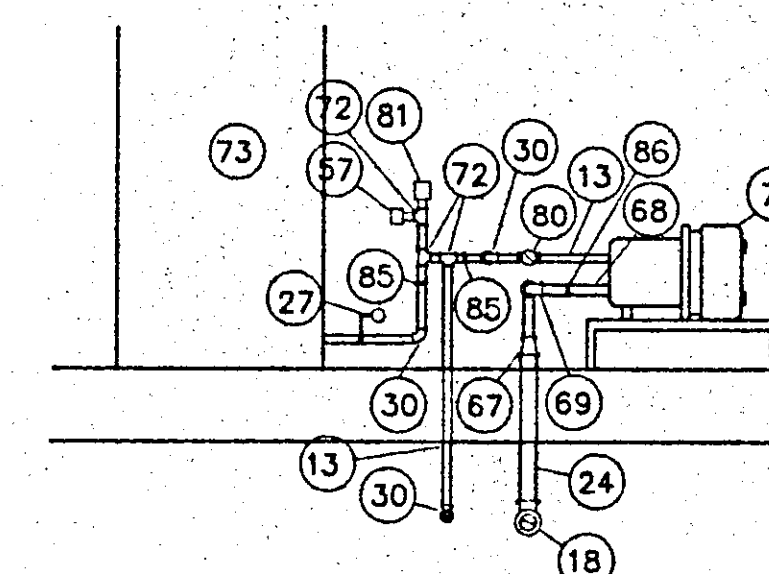
INTAKE STRUCTURE
N.T.S.



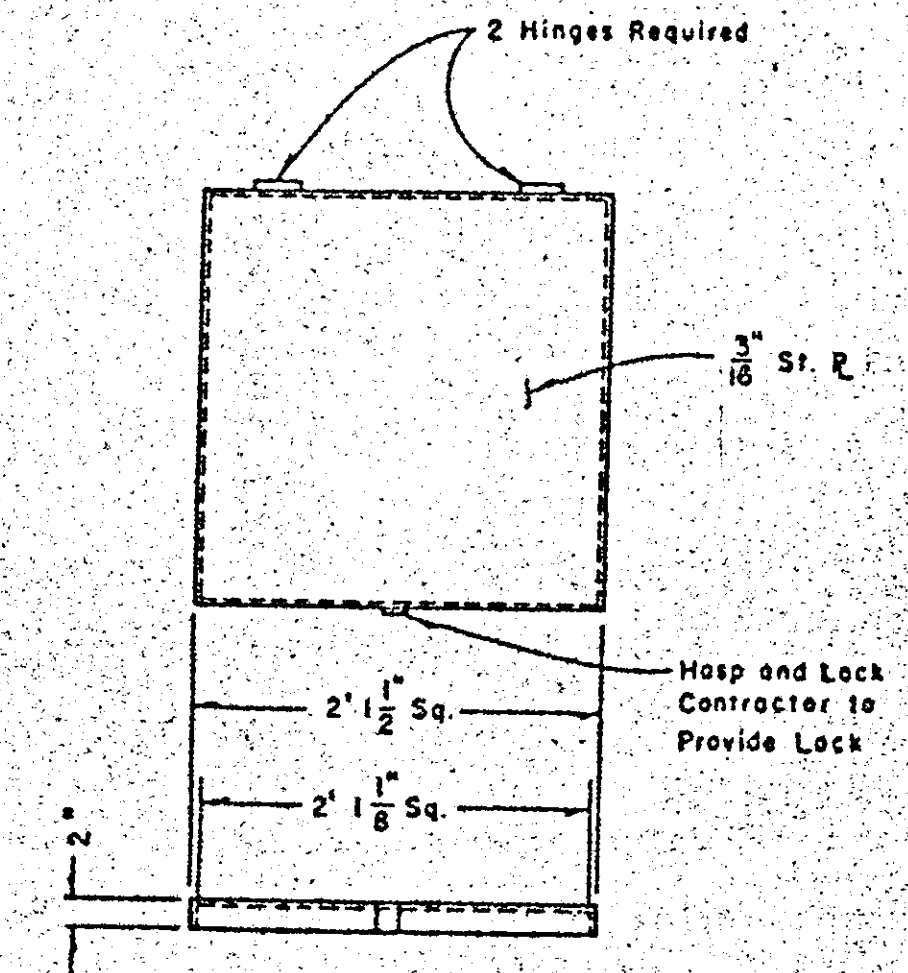
CONCRETE WEIGHT DETAIL
N.T.S.



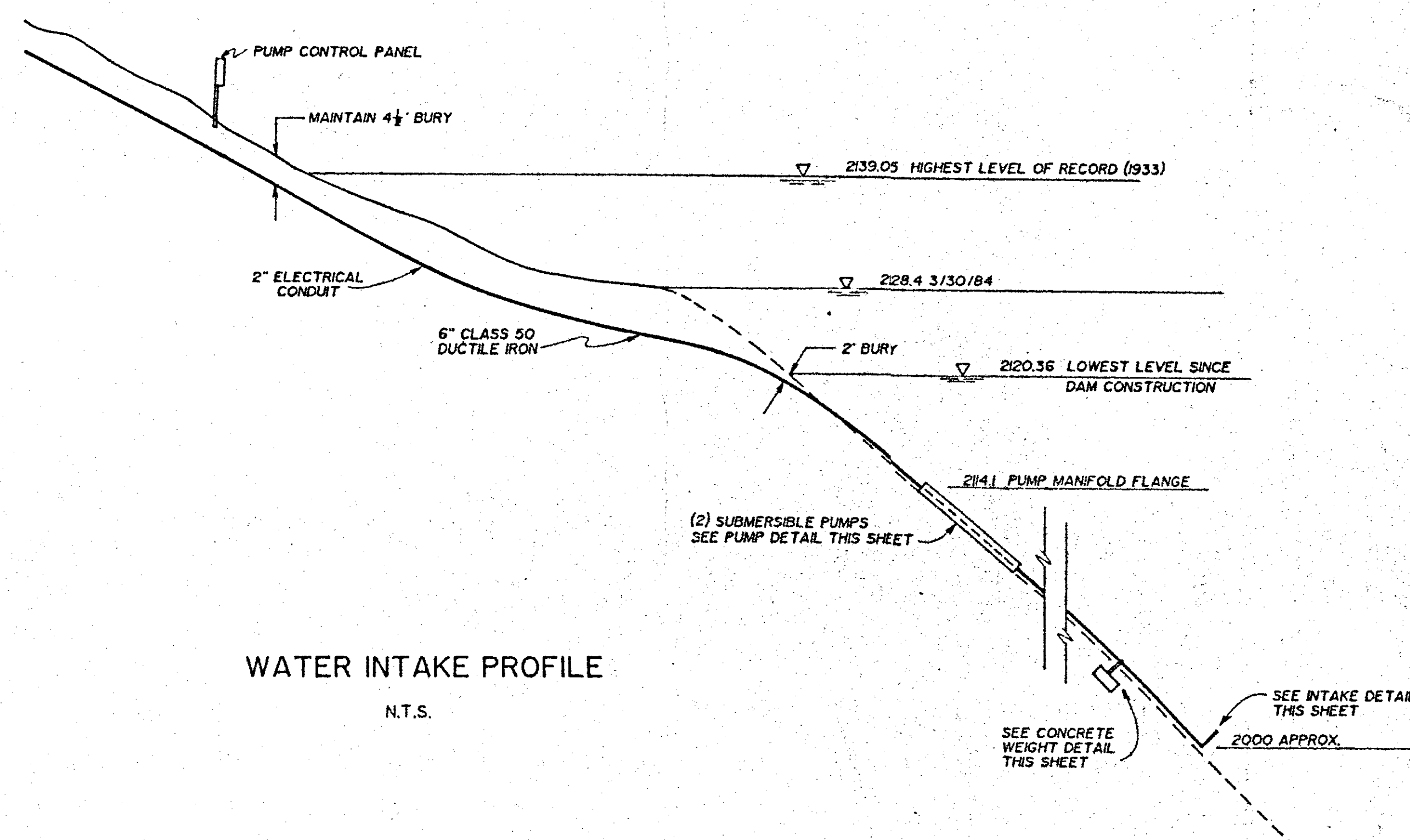
EXTERIOR LADDER DETAILS
Scale 3/4" = 1'0"



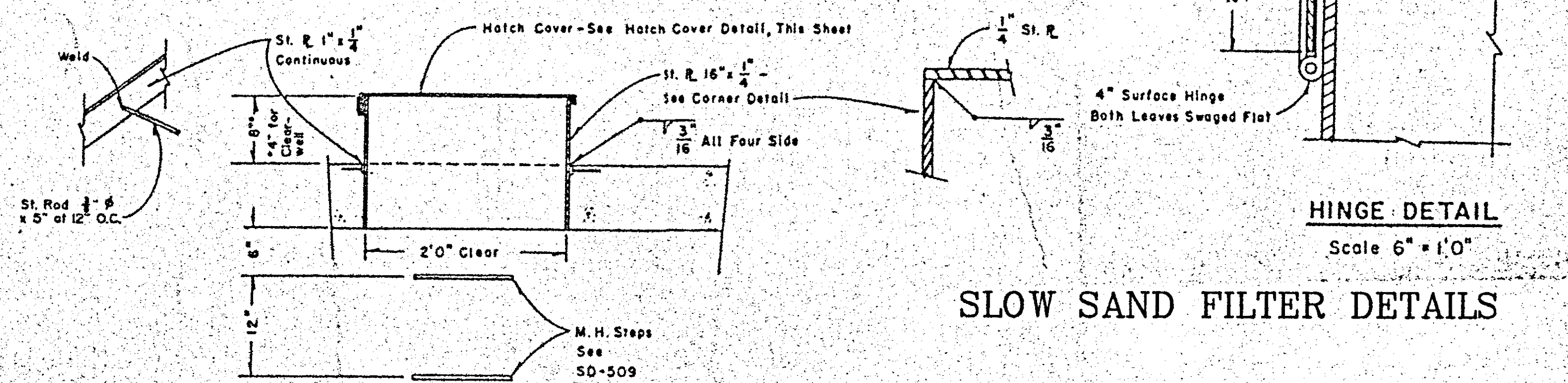
SECTION F
SCALE 1/2" = 1'0"



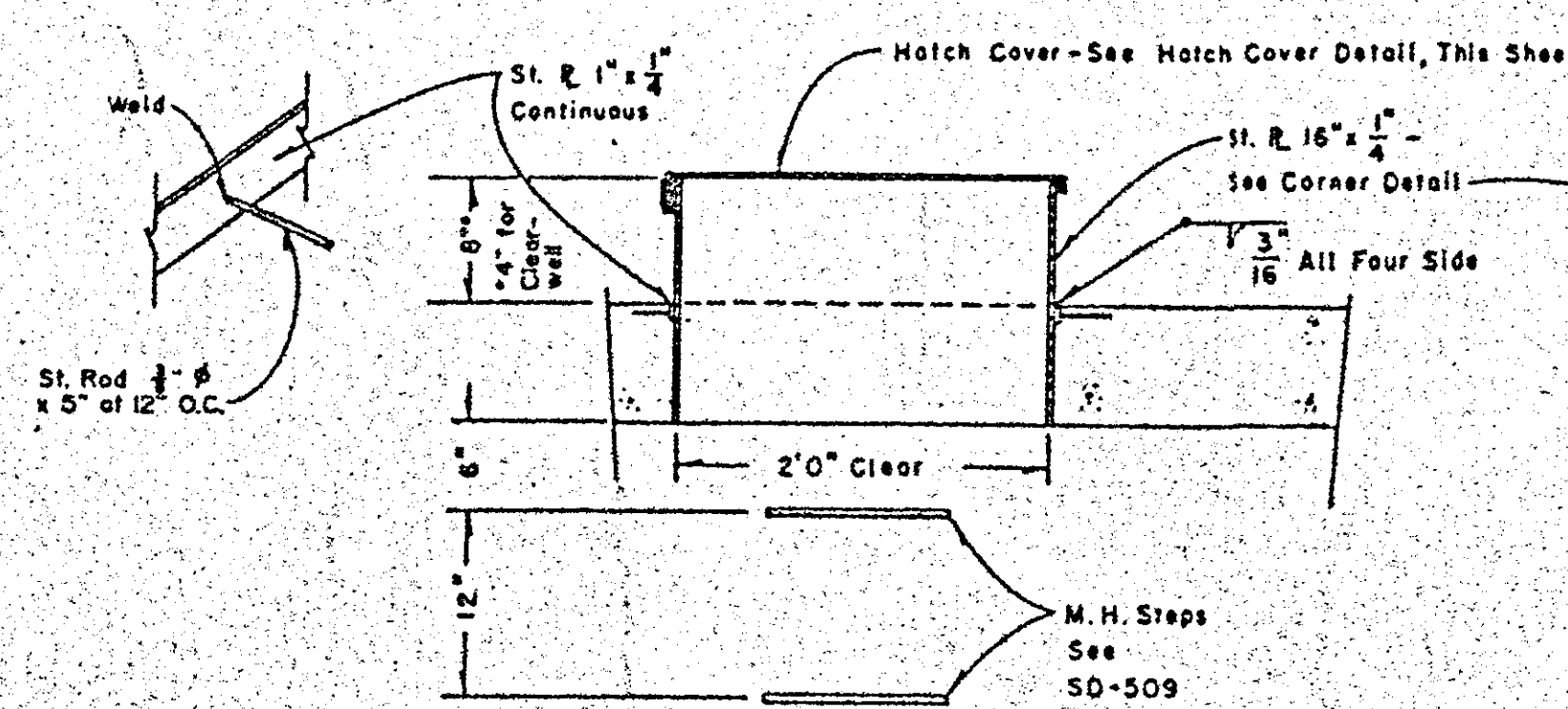
HATCH COVER DETAIL
Scale 1" = 1'0"



WATER INTAKE PROFILE
N.T.S.



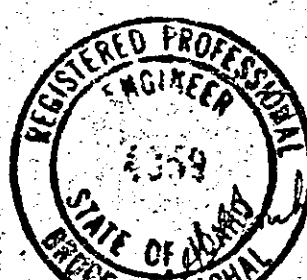
HINGE DETAIL
Scale 6" = 1'0"



HATCH DETAIL
Scale 1" = 1'0"

SLOW SAND FILTER DETAILS

PUMP AND INTAKE STRUCTURE DETAILS

1	RECORD DRAWING	G.W.N.	12/3/91
NO.	REVISION	BY	DATE
PROJECT NUMBER 241F		HARBOR VIEW ESTATES	
FILE NAME D241F_6			
		DETAILS	
		RUEN-YEAGER & ASSOCIATES, INC. Consulting Engineers	
		SCALE AS SHOWN	
		DESIGN BY	DRAWN BY
PLOT DATE 12-6-91		DATE 9/14/90	SHEET 6 OF 7
1119 Ironwood Parkway, Suite 200 Coeur d'Alene, Idaho 83814			