

WATER POLLUTION CONTROL PLANT

MUNZ-MENDENHALL BOYS CAMP

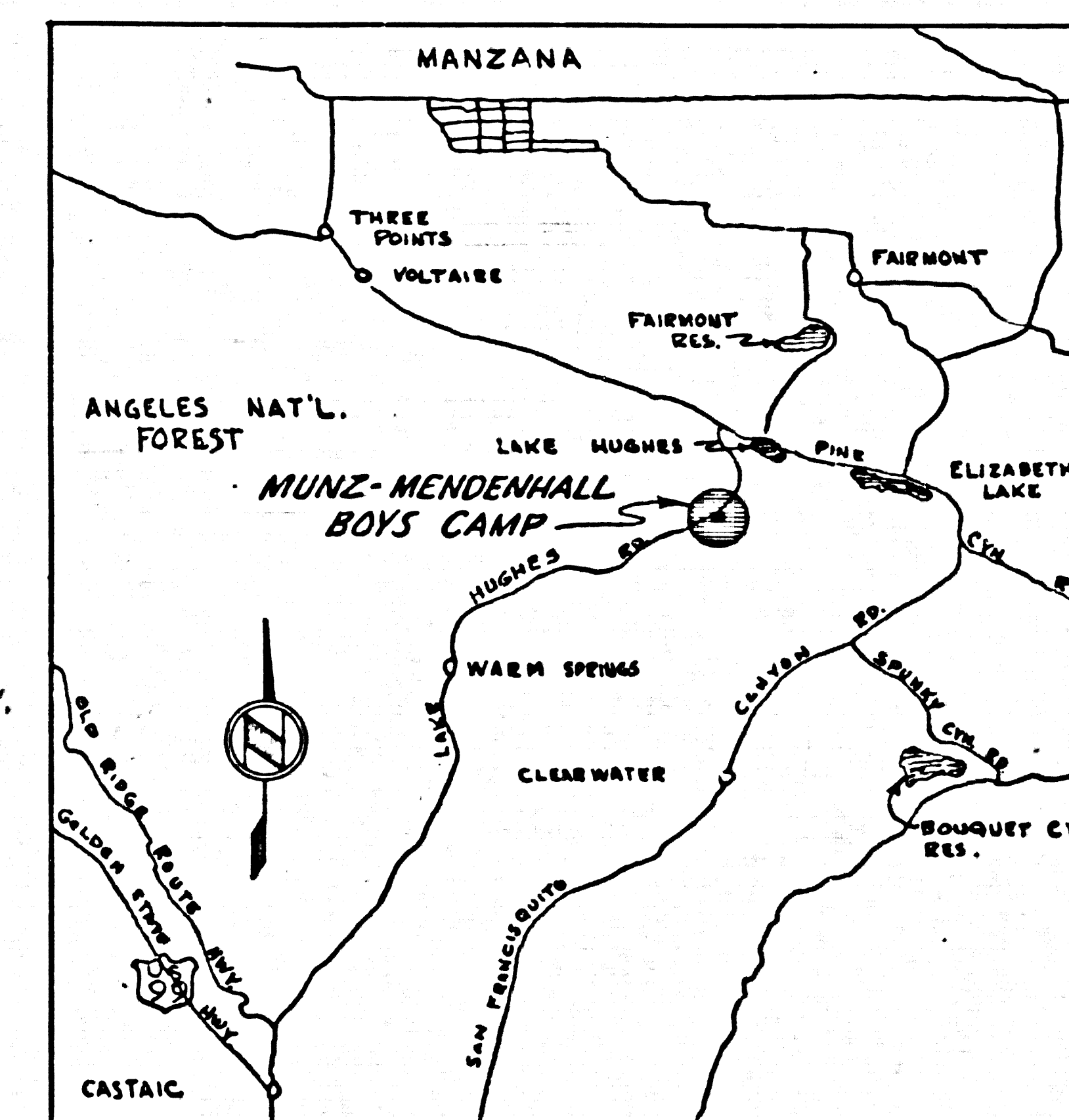
PLANS PREPARED
 BY THE
 DEPARTMENT OF THE COUNTY ENGINEER
 SANITATION DIVISION
 COUNTY OF LOS ANGELES, CALIFORNIA
 JOHN A. LAMBIE COUNTY ENGINEER

46,080

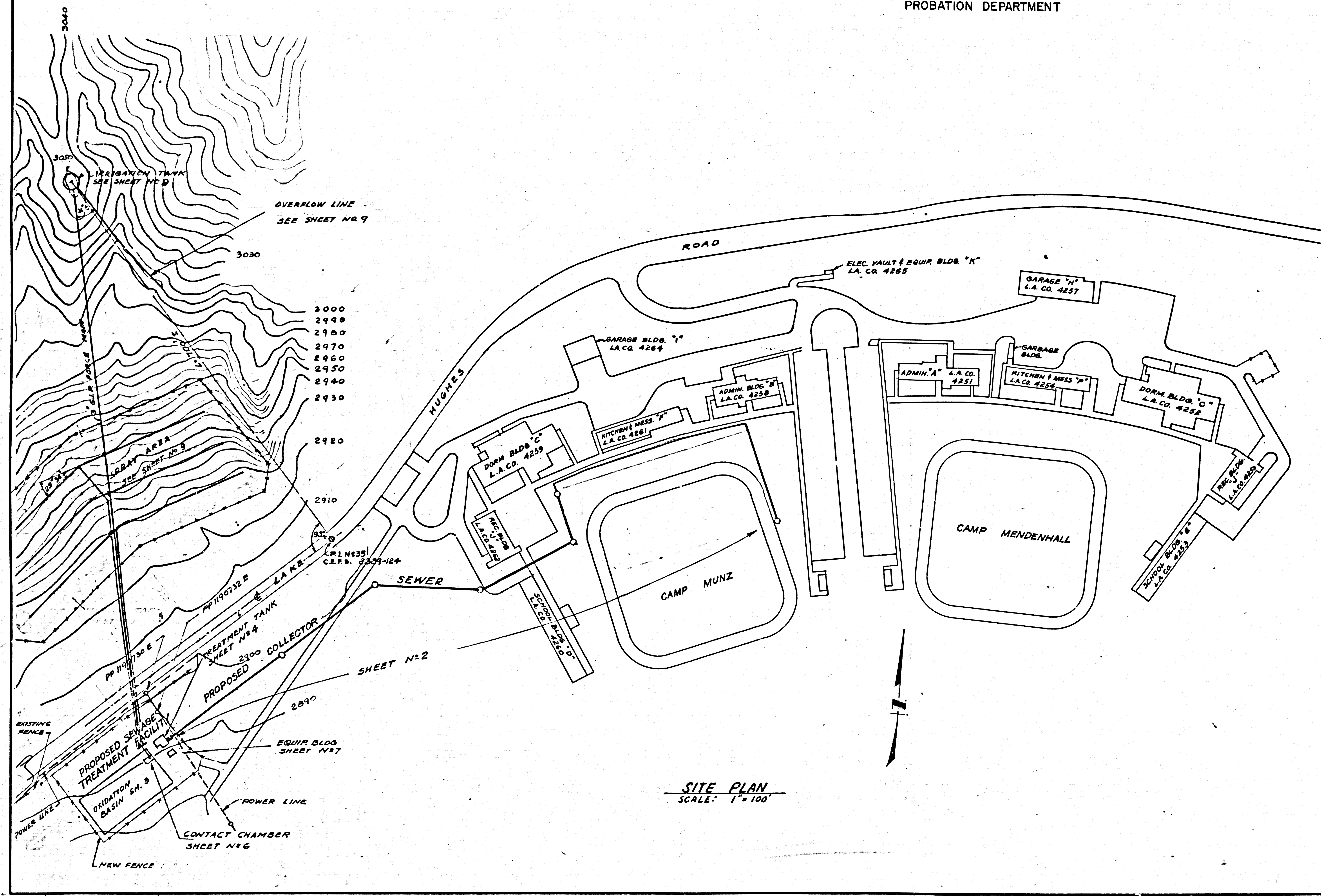
SUBMITTED: *R. H. Wisterdick*
CIVIL ENGINEER, R.E. 14390

APPROVED: *B. H. Hughes*
DIVISION ENGINEER

APPROVED: *R. H. Wisterdick*
PROBATION DEPARTMENT



VICINITY MAP
NO SCALE



SITE PLAN
SCALE: 1" = 100'

INDEX TO PLANS

SHEET	TITLE
1	VICINITY MAP, SITE PLAN & INDEX
2	COLLECTOR SEWER
3	GRADING, PIPING DIAGRAM, FENCING
4	TREATMENT TANK
5 & 5A	MECHANICAL EQUIPMENT & MISC. DETAILS
6 & 6A	CHLORINE CONTACT CHAMBER
7 & 7A	EQUIPMENT BUILDING
8	ELECTRICAL PLAN
9	IRRIGATION SYSTEM & IRRIGATION RESERVOIR

VICINITY MAP, SITE PLAN, & INDEX

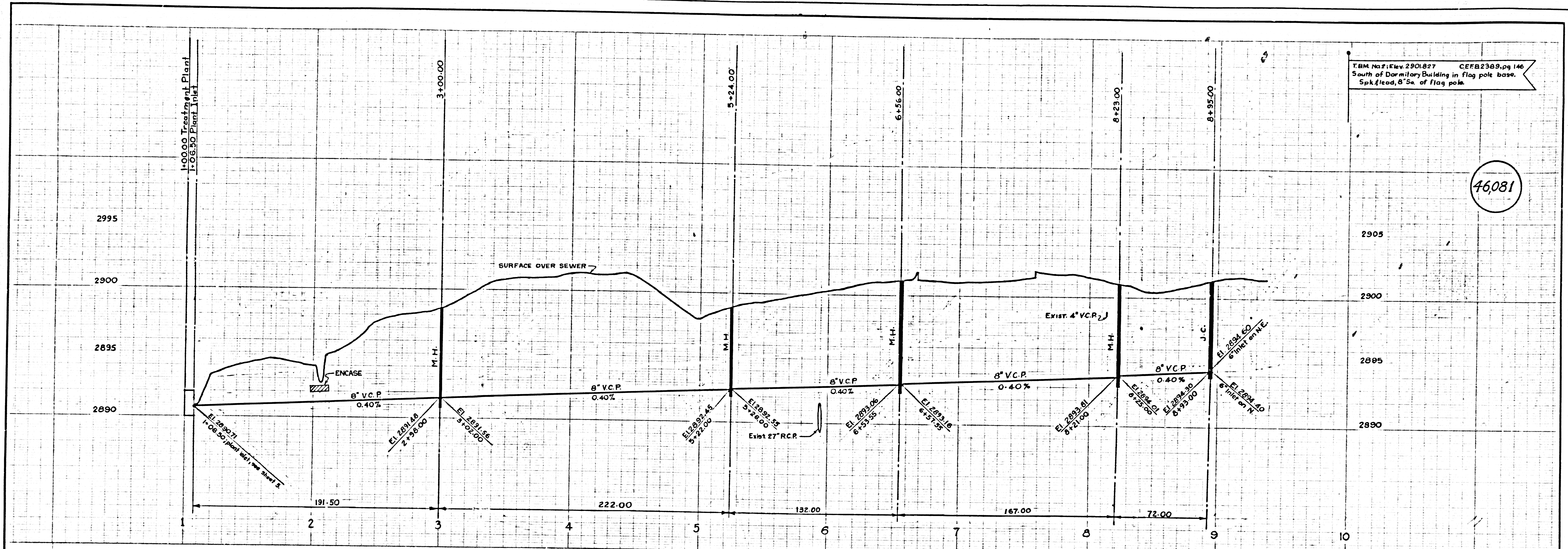
PC 6891	CAP PROJ. 5609.07	
DESIGNED: OBRADOVITCH	TRACED: OBRADOVITCH	CHECKED: HOWARD
SCALE: AS SHOWN	DATE: 9/64	SHEET NO. 1 OF 12 SHEETS

Trim Line 7
SHEET 1 MUNZ-MENDENHALL BOYS CAMP

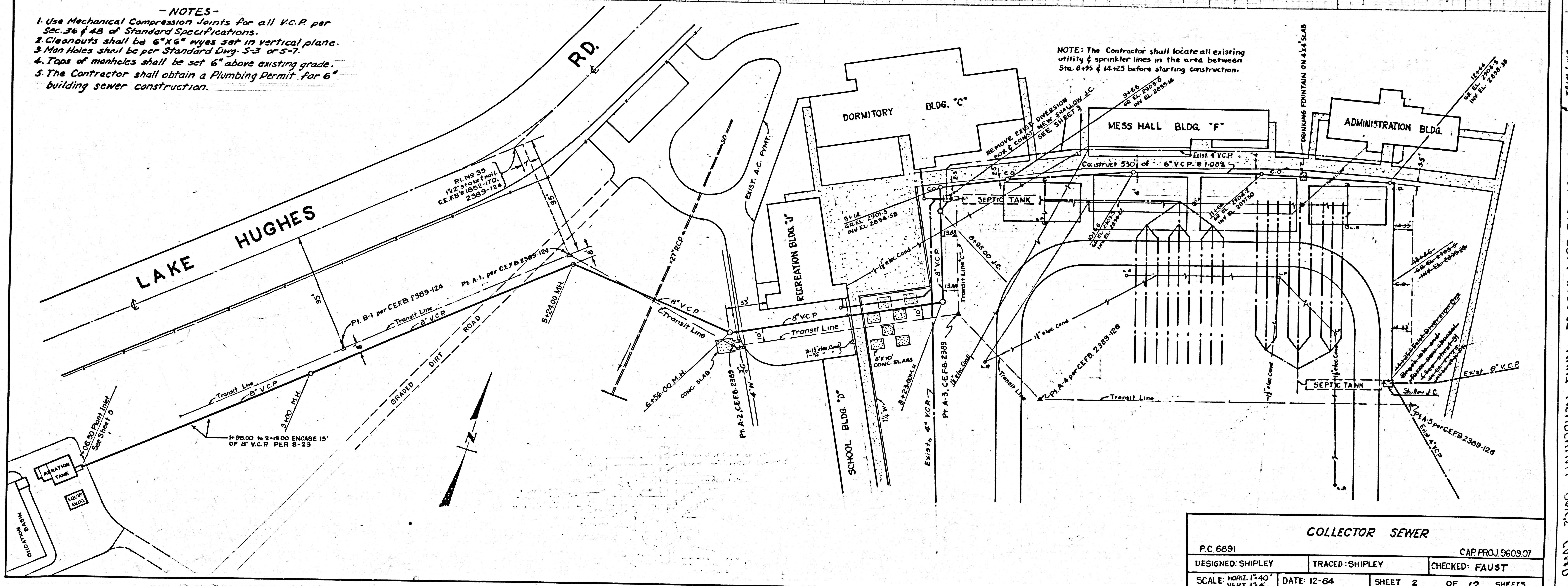
Trim Line 7
SHEET 1 MUNZ-MENDENHALL BOYS CAMP

T.B.M. No. 1 Elev. 2901.827 CEFB 2389, pg. 146
South of Dormitory Building in flag pole base.
5pk. 4' lead, 8" dia. of flag pole.

46081



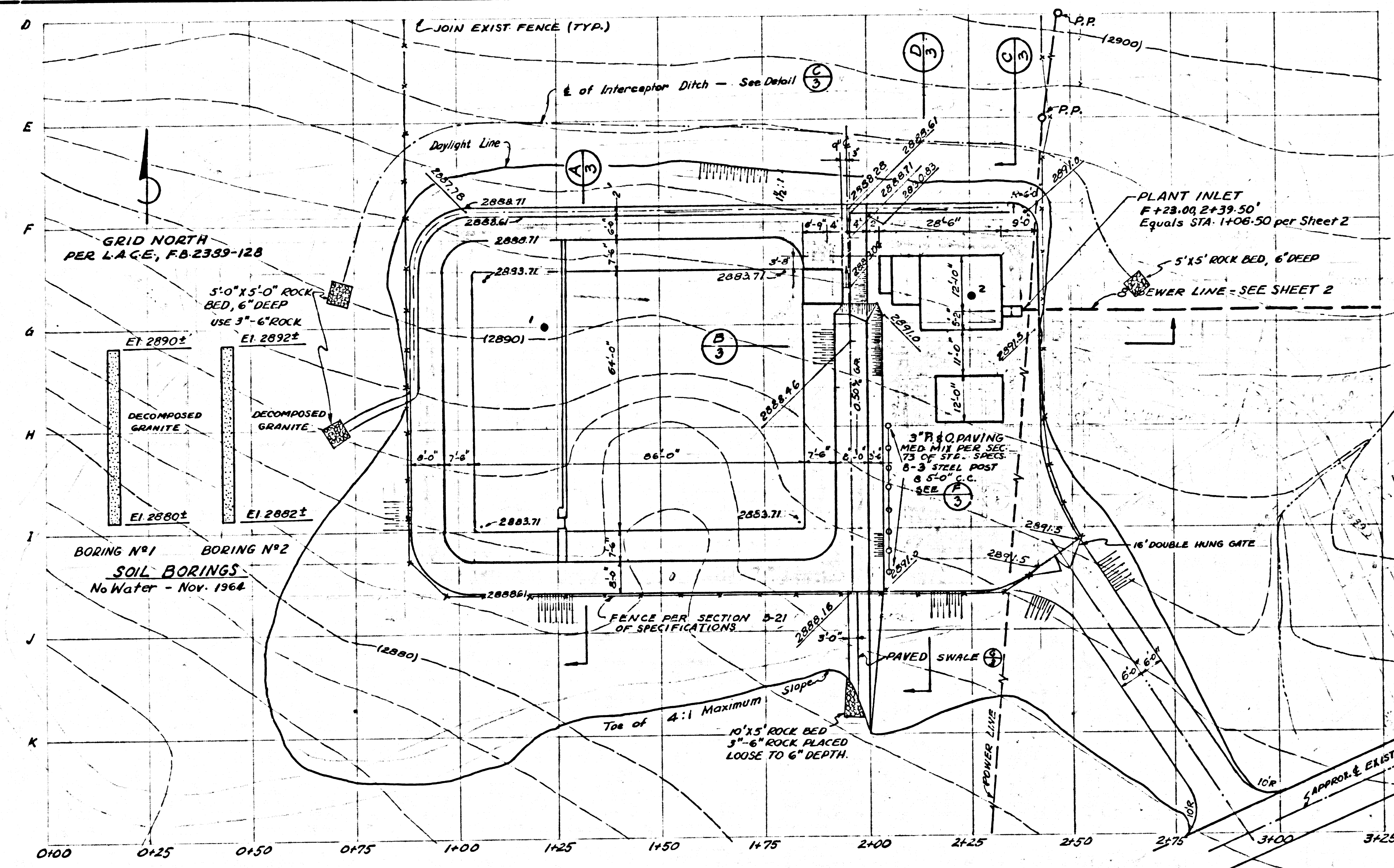
- NOTES -**
1. Use Mechanical Compression Joints for all V.C.P. per Sec. 36 of 48 of Standard Specifications.
 2. Cleanouts shall be 6"x6" wyes set in vertical plane.
 3. Man Holes shall be per Standard Dwg. S-3 or S-7.
 4. Tops of manholes shall be set 6" above existing grade.
 5. The Contractor shall obtain a Plumbing Permit for 6" building sewer construction.



NOTE: The Contractor shall locate all existing utility & sprinkler lines in the area between Sta. 6+95 & 14+25 before starting construction.

COLLECTOR SEWER		
P.C. 6691	CAP PROJ. 9609.07	
DESIGNED: SHIPLEY	TRACED: SHIPLEY	CHECKED: FAUST
SCALE: HORZ. 1"=40'	DATE: 12-64	SHEET 2 OF 12 SHEETS

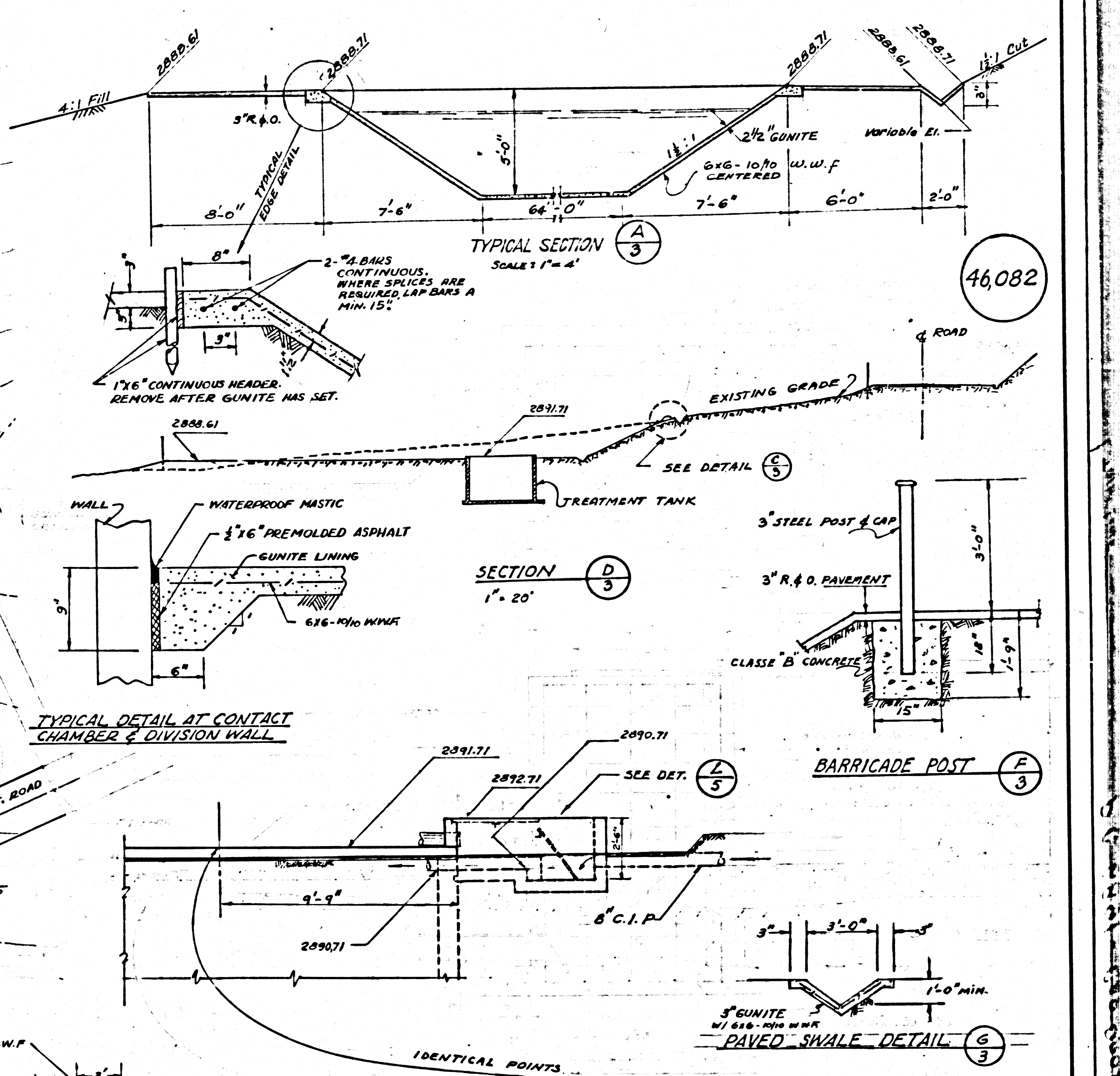
S.C. 8901 - CHS 8901 - 8903 - 8904 - 8905 - 8906 - 8907 - 8908 - 8909 - 8910 - 8911 - 8912 - 8913 - 8914 - 8915 - 8916 - 8917 - 8918 - 8919 - 8920 - 8921 - 8922 - 8923 - 8924 - 8925 - 8926 - 8927 - 8928 - 8929 - 8930 - 8931 - 8932 - 8933 - 8934 - 8935 - 8936 - 8937 - 8938 - 8939 - 8940 - 8941 - 8942 - 8943 - 8944 - 8945 - 8946 - 8947 - 8948 - 8949 - 8950 - 8951 - 8952 - 8953 - 8954 - 8955 - 8956 - 8957 - 8958 - 8959 - 8960 - 8961 - 8962 - 8963 - 8964 - 8965 - 8966 - 8967 - 8968 - 8969 - 8970 - 8971 - 8972 - 8973 - 8974 - 8975 - 8976 - 8977 - 8978 - 8979 - 8980 - 8981 - 8982 - 8983 - 8984 - 8985 - 8986 - 8987 - 8988 - 8989 - 8990 - 8991 - 8992 - 8993 - 8994 - 8995 - 8996 - 8997 - 8998 - 8999 - 9000



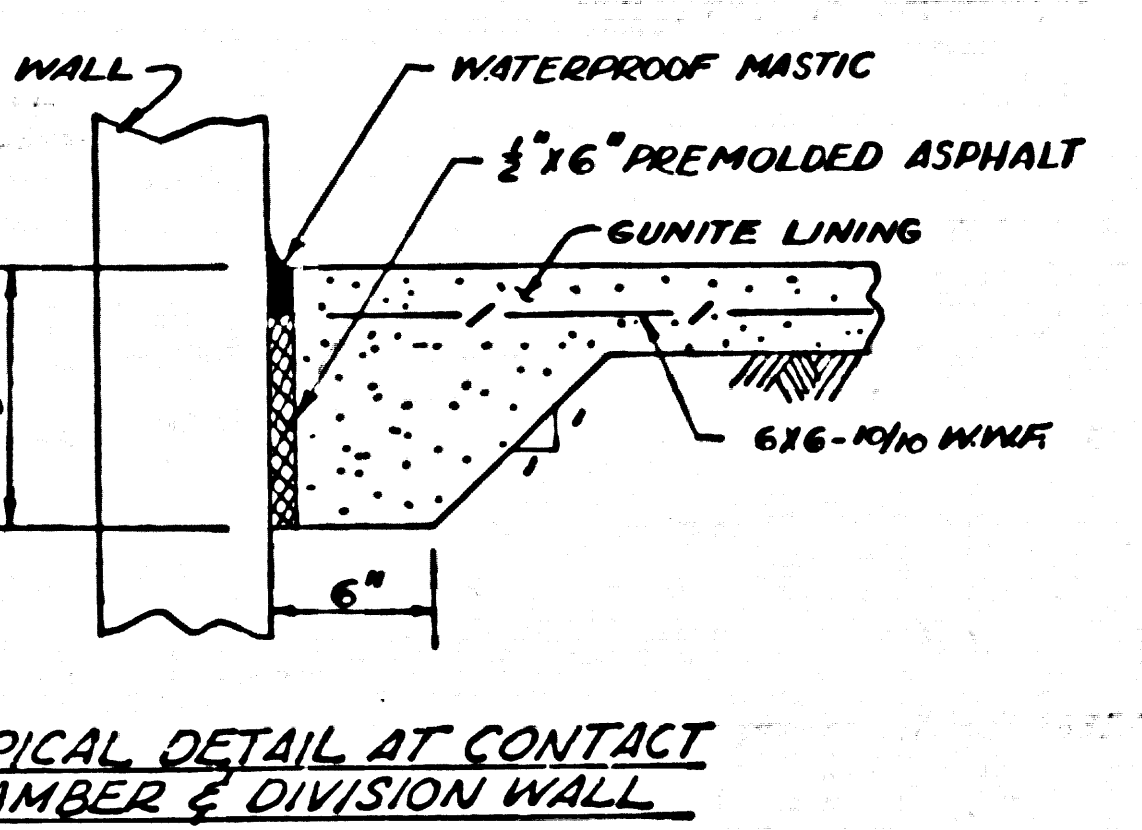
GRADING AND PAVING PLAN
SCALE: 1"=20'

- NOTE:**
1. SLOPE PLANTING BY OTHERS.
 2. NO FILL WILL BE PLACED UNTIL REPARATION OF GROUND IS APPROVED BY COUNTY INSPECTOR.
 3. MAX. SLOPE OF CUTS, 1 1/2:1; FILLS, 4:1.
 4. ALL FILL CLEAN EARTH PER GEN'L SPECS.
 5. REMOVE VEGETATION & TOPSOIL & SCARIFY 6" BEFORE PLACING FILL.
 6. THE CONTRACTOR SHALL AT ALL TIMES PROVIDE FOR CONTIGUOUS SURFACE DRAINAGE.

- LEGEND:**
- - - EXISTING CONTOUR
 - SOIL BORING



TYPICAL SECTION A-3
SCALE: 1"=4'

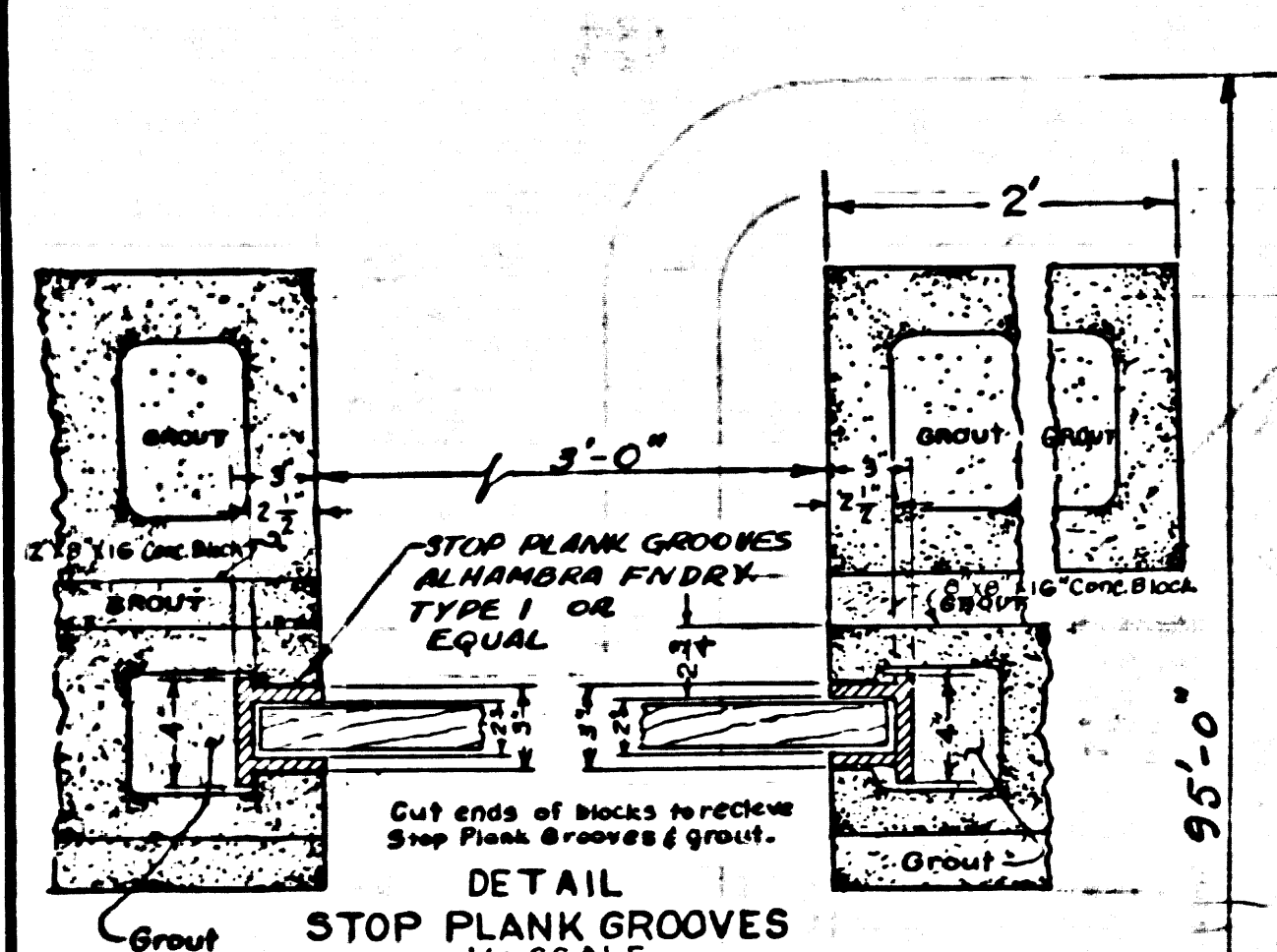


TYPICAL DETAIL AT CONTACT CHAMBER & DIVISION WALL

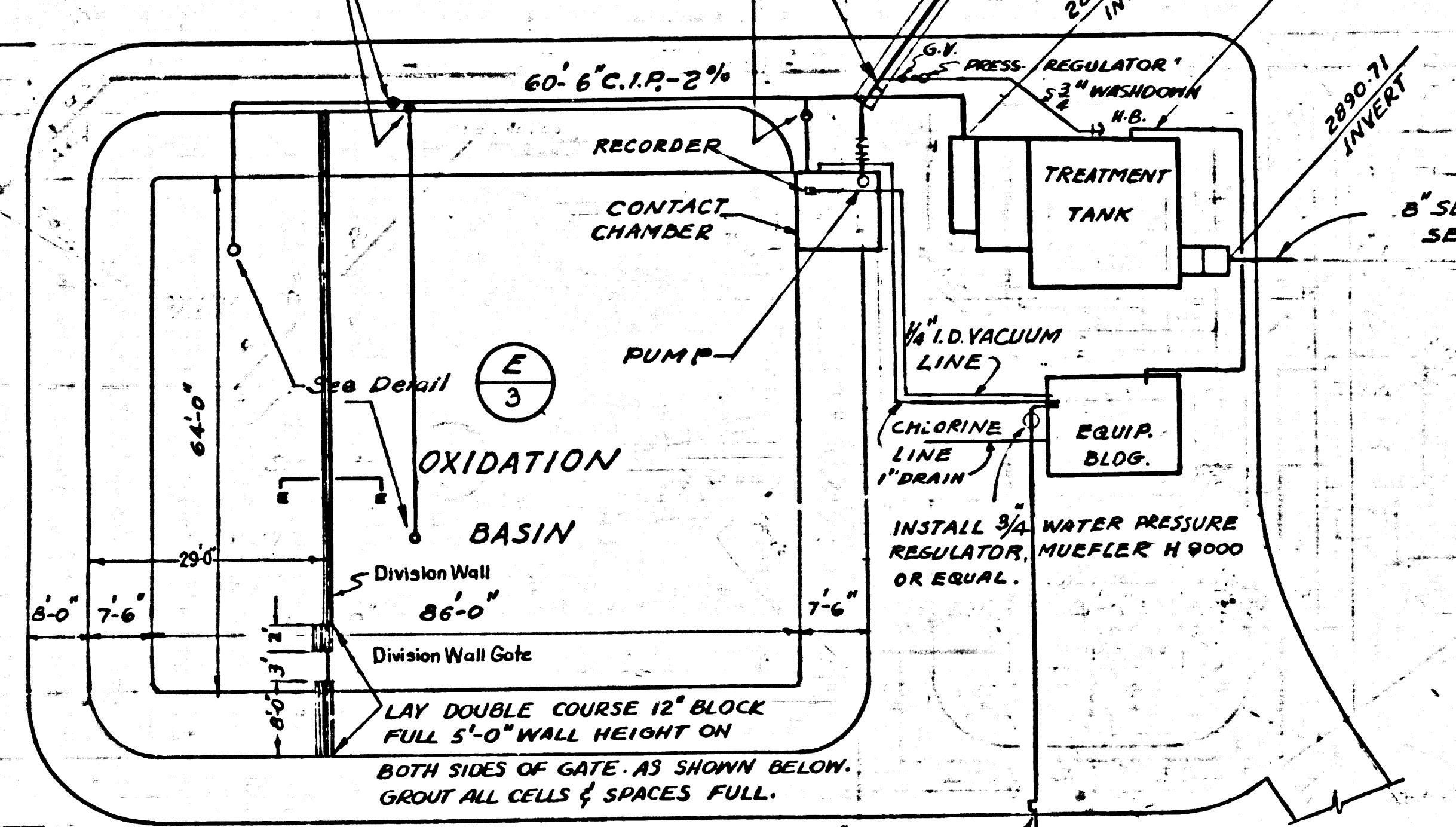
SECTION D-3
1"=20'

BARRICADE POST E-3

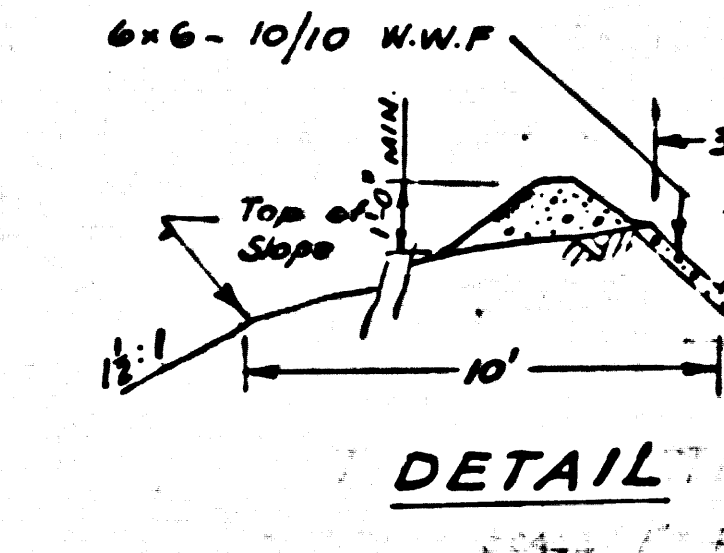
PAVED SWALE DETAIL C-3



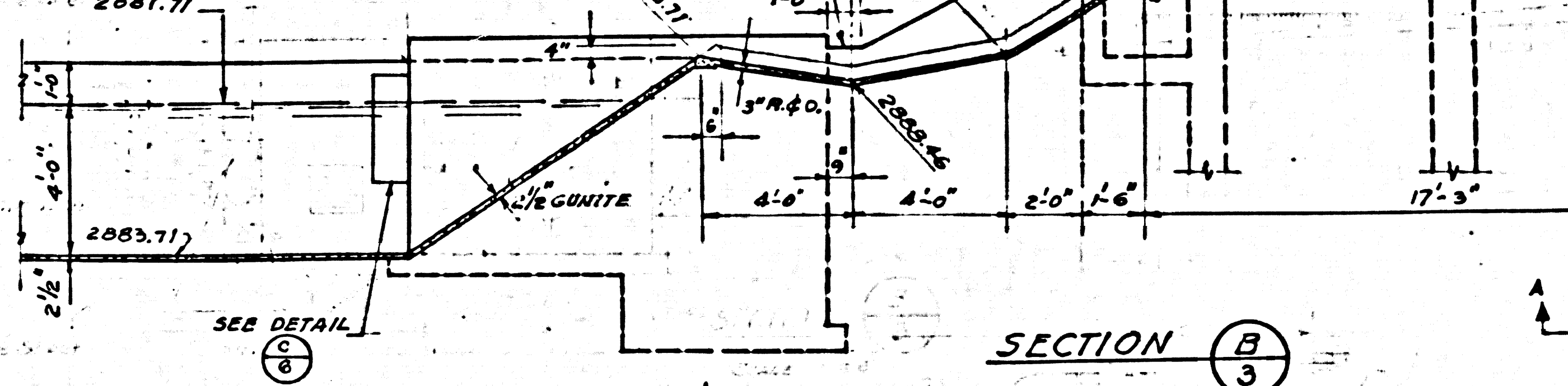
DETAIL STOP PLANK GROOVES
1/2 SCALE



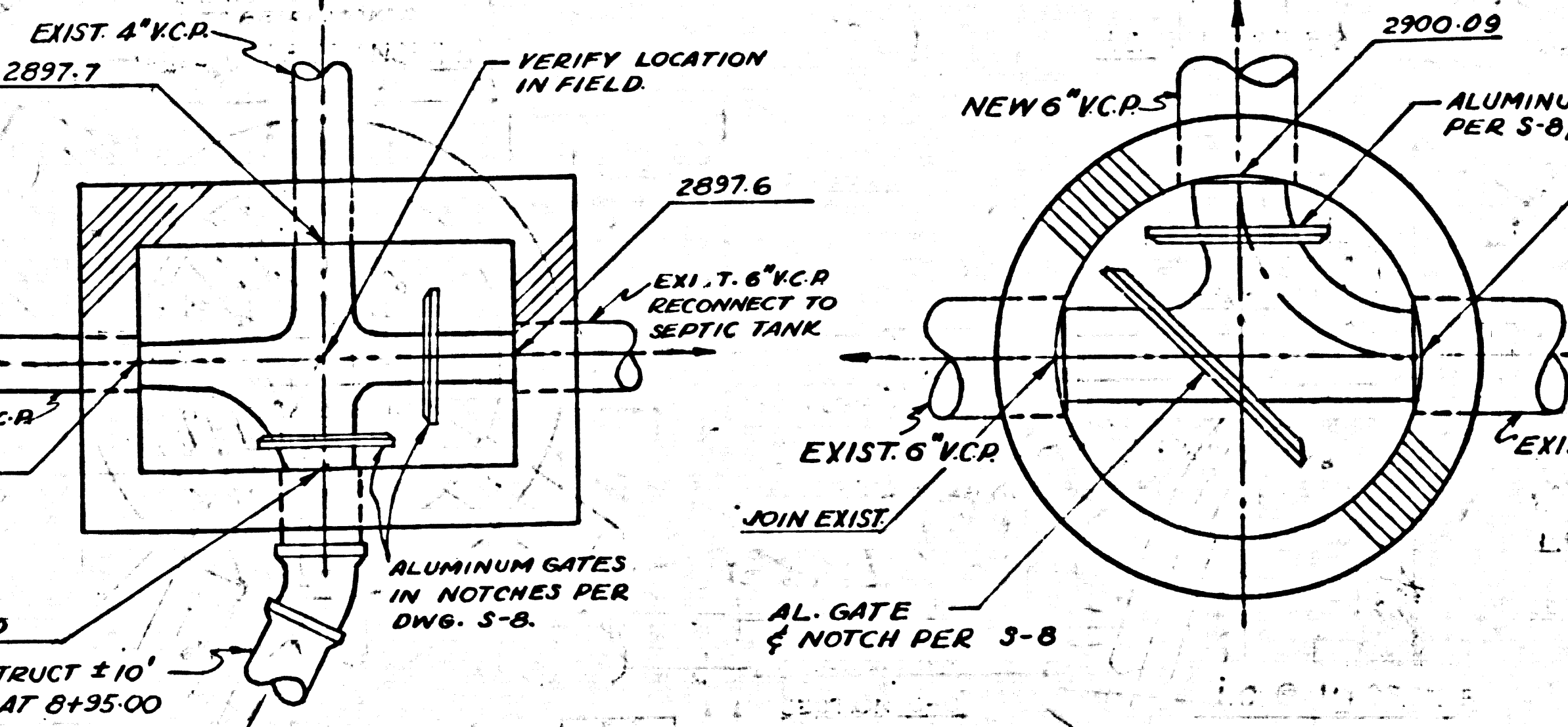
PIPING DIAGRAM
SCALE: 1"=20'



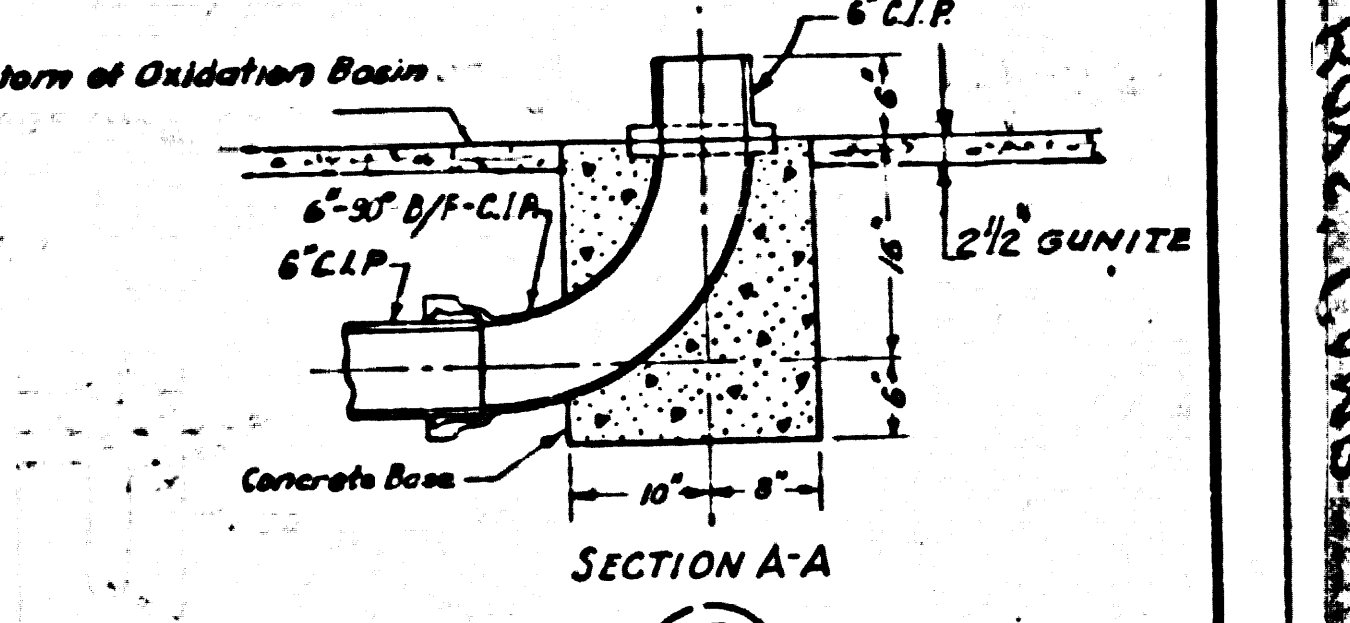
DETAIL C-3



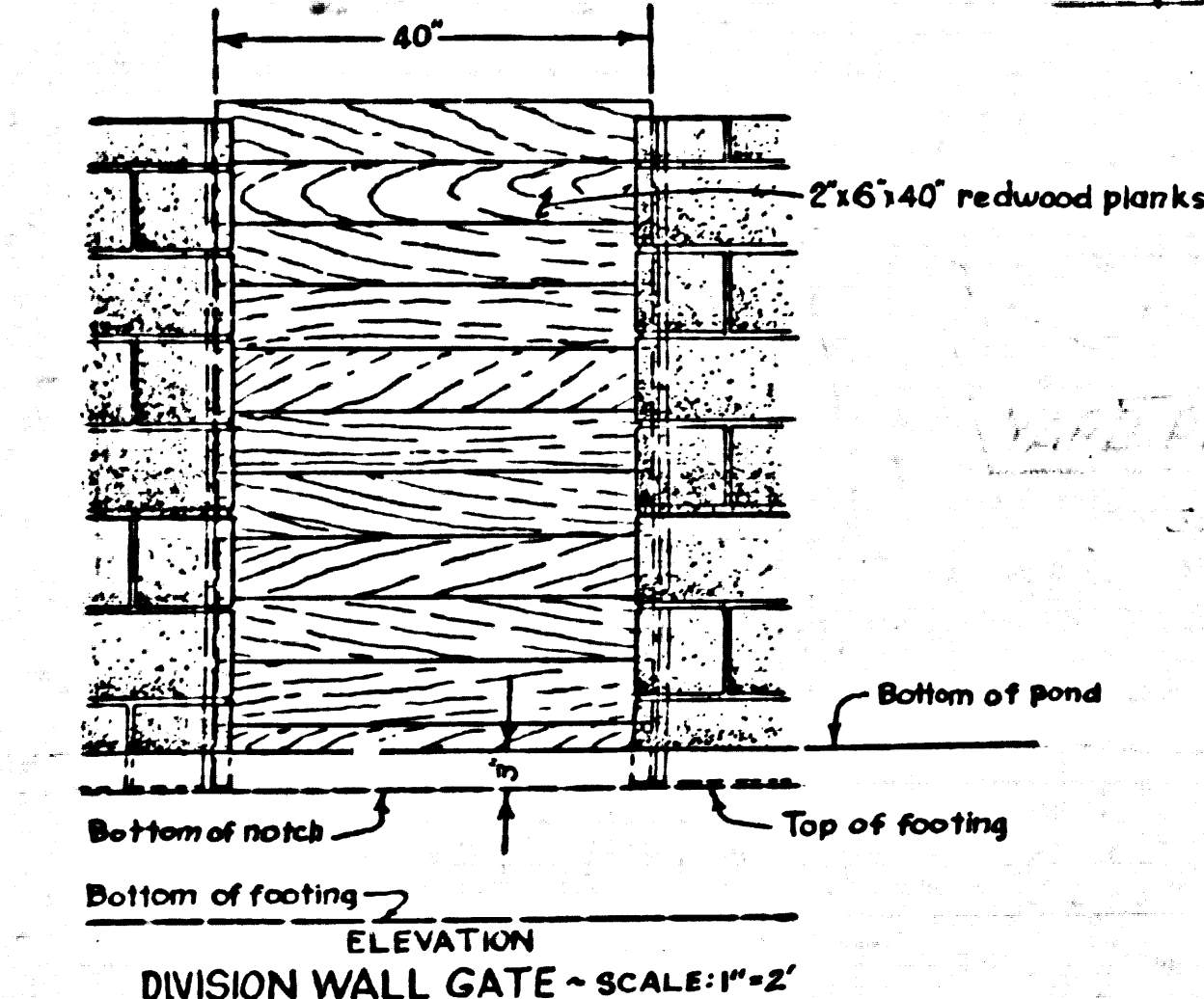
SECTION B-3
SCALE: 1"=4'



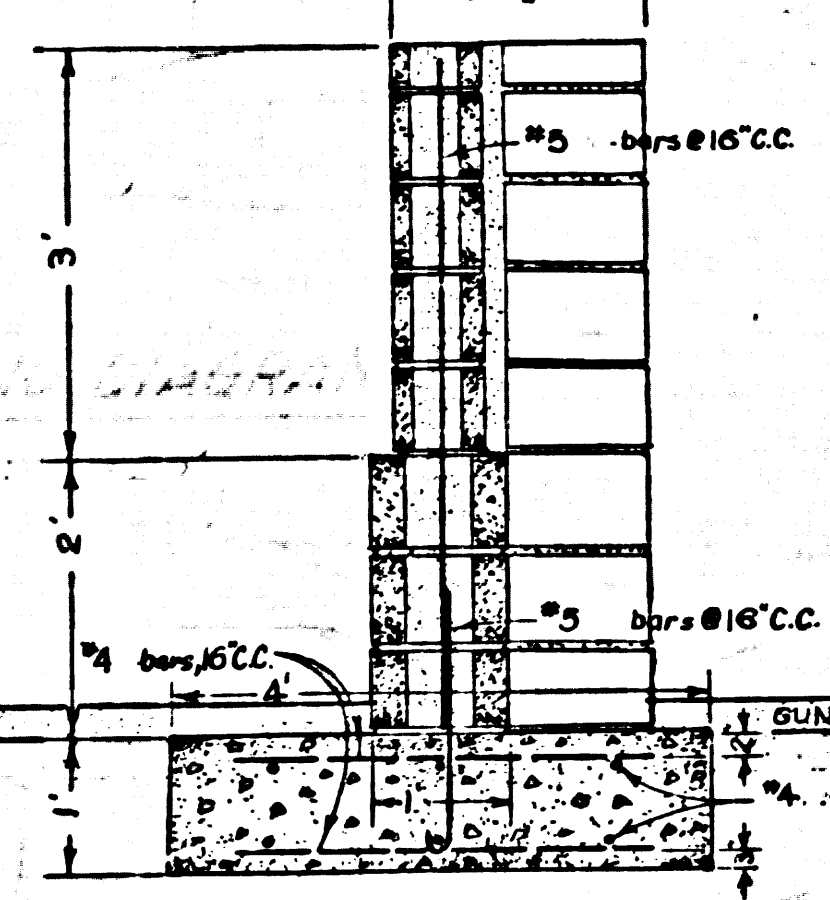
EXISTING DIV. BOX
SCALE: 1"=1'-0"



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



DIVISION WALL GATE
SCALE: 1"=2'

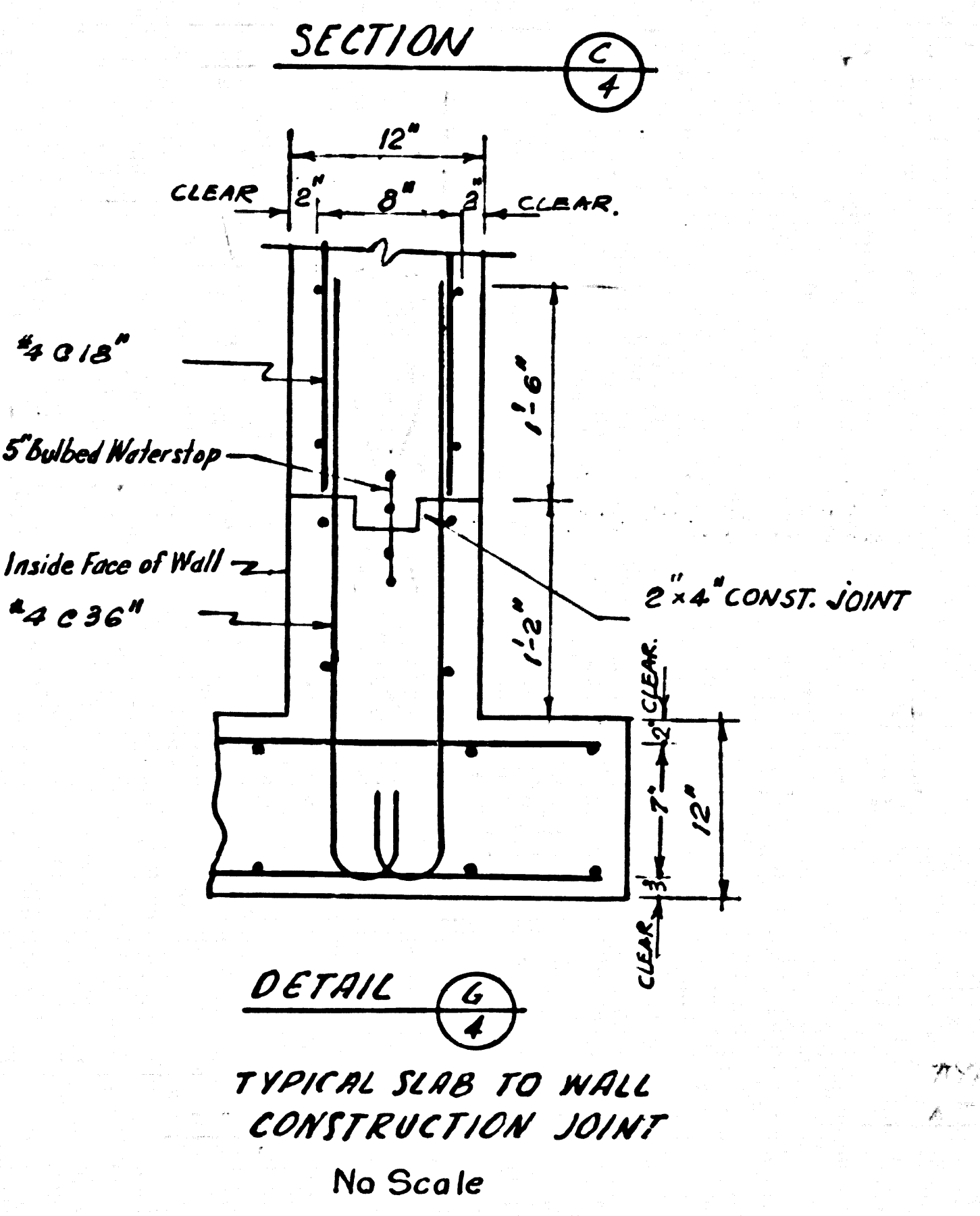
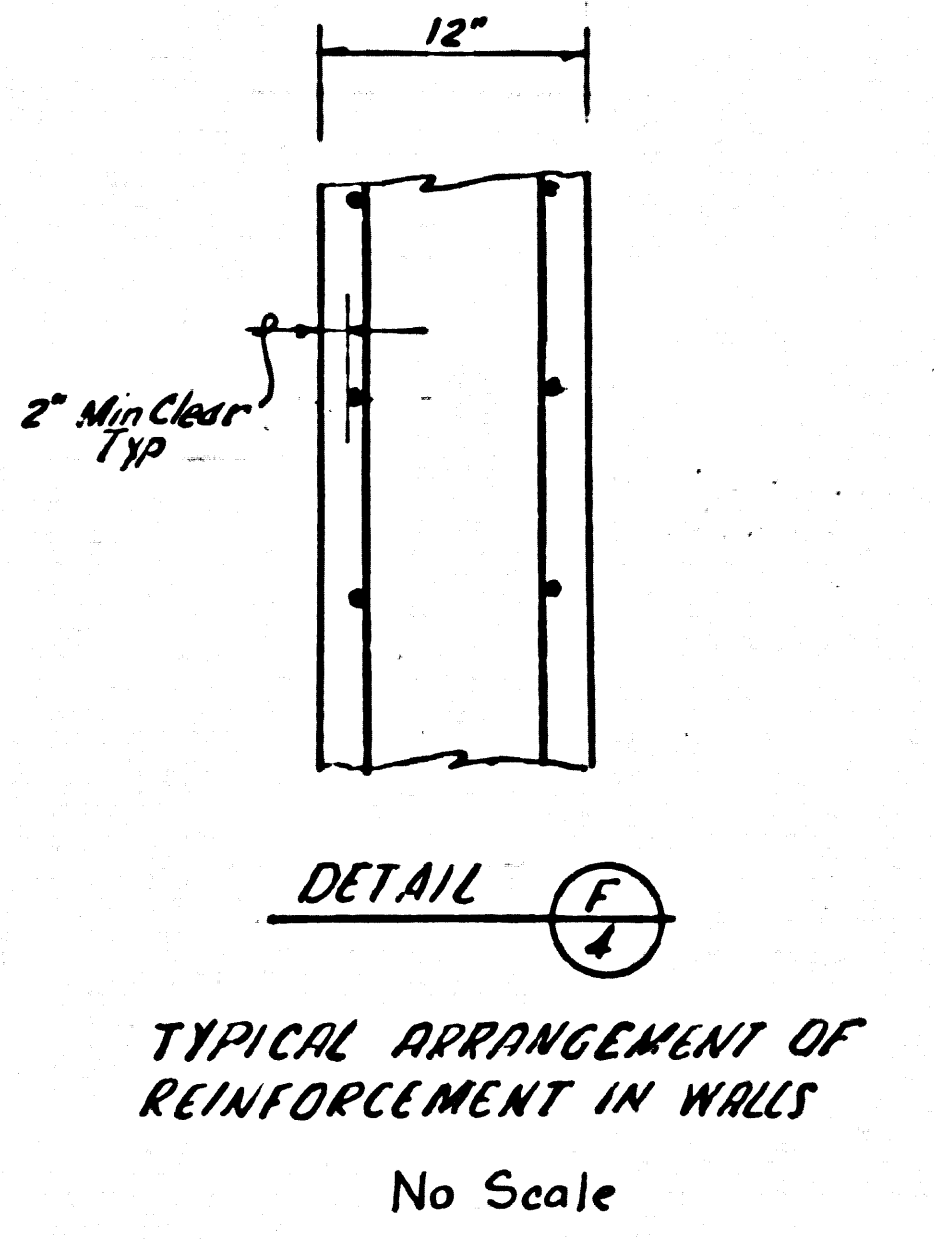
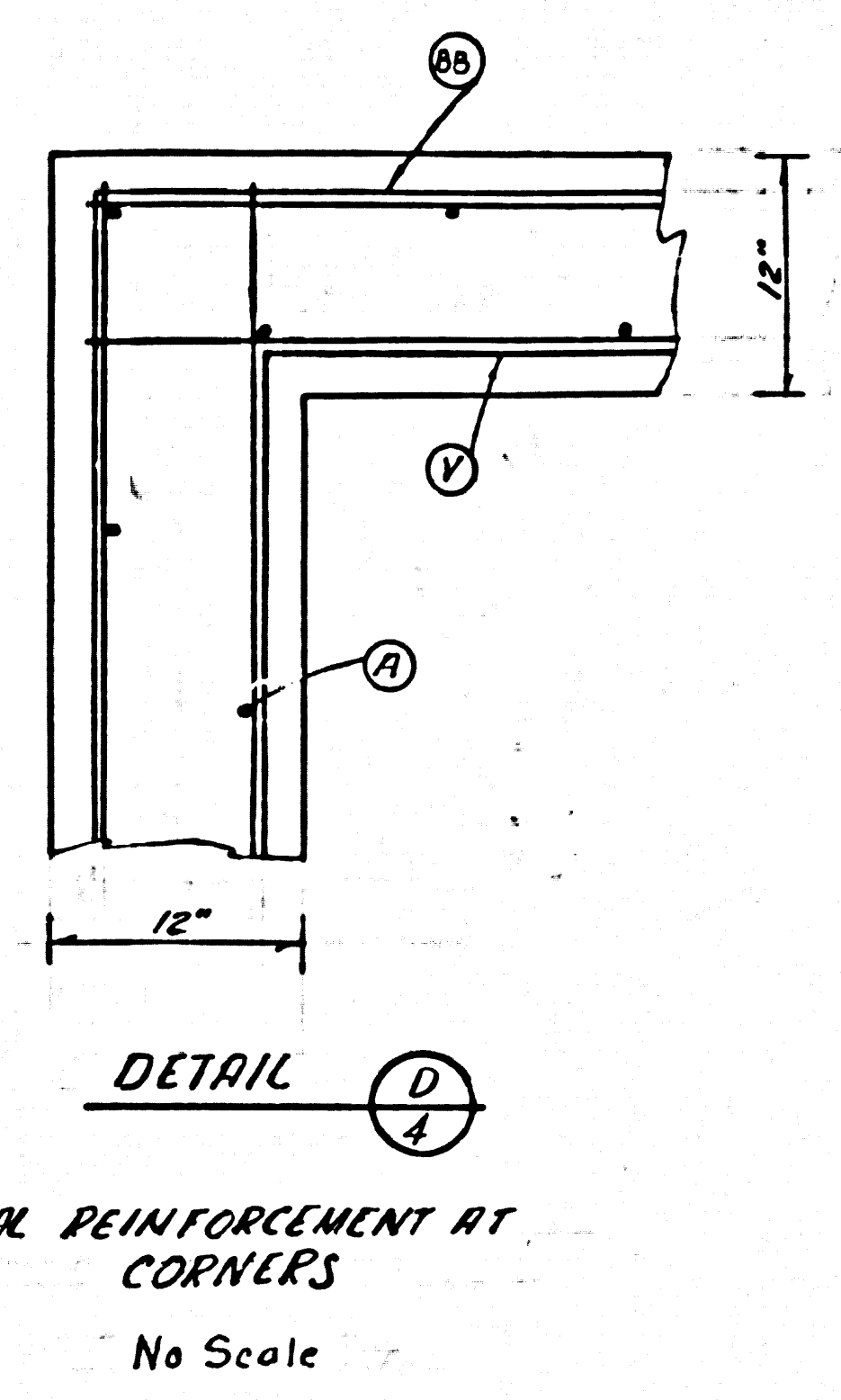
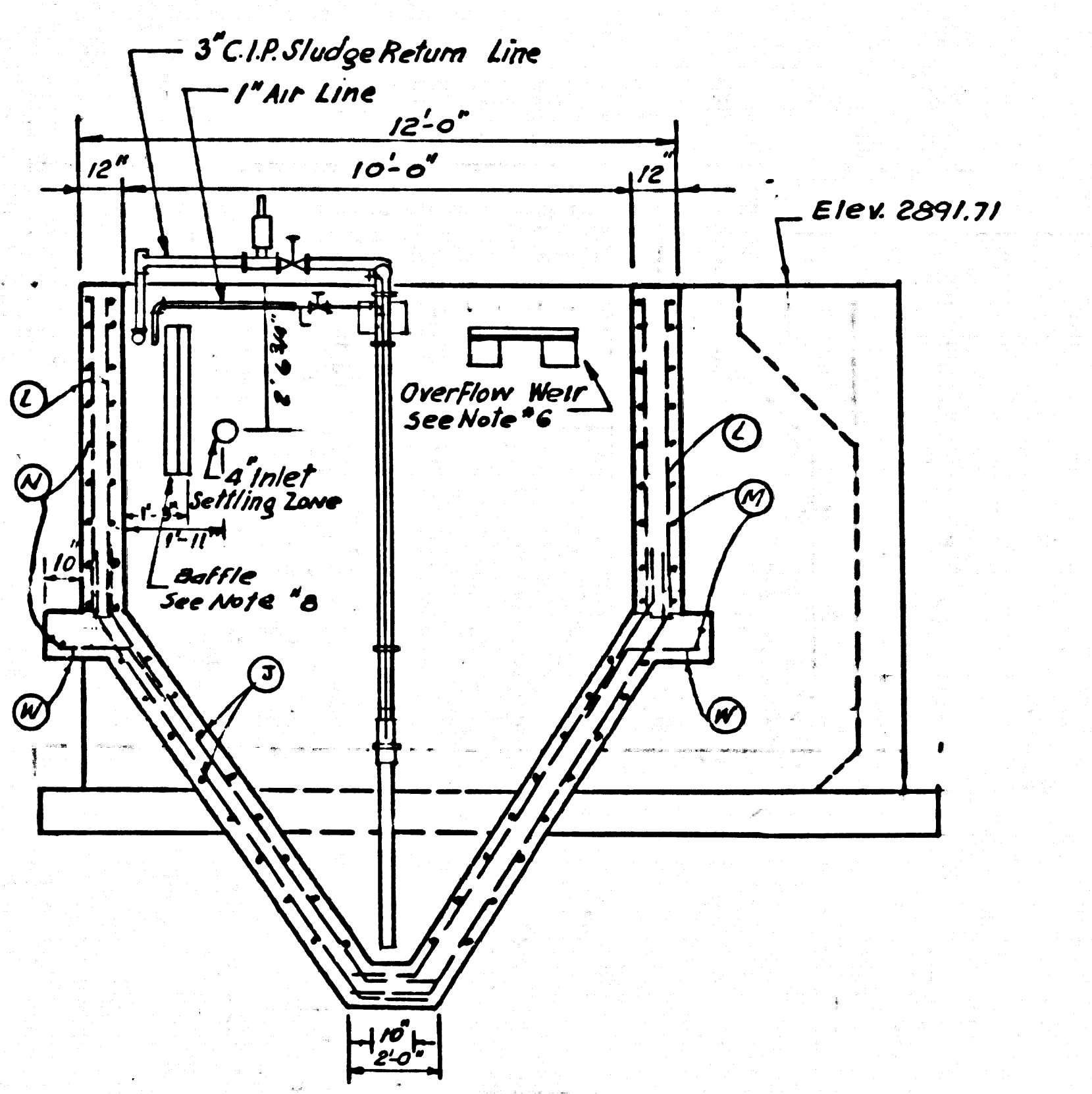
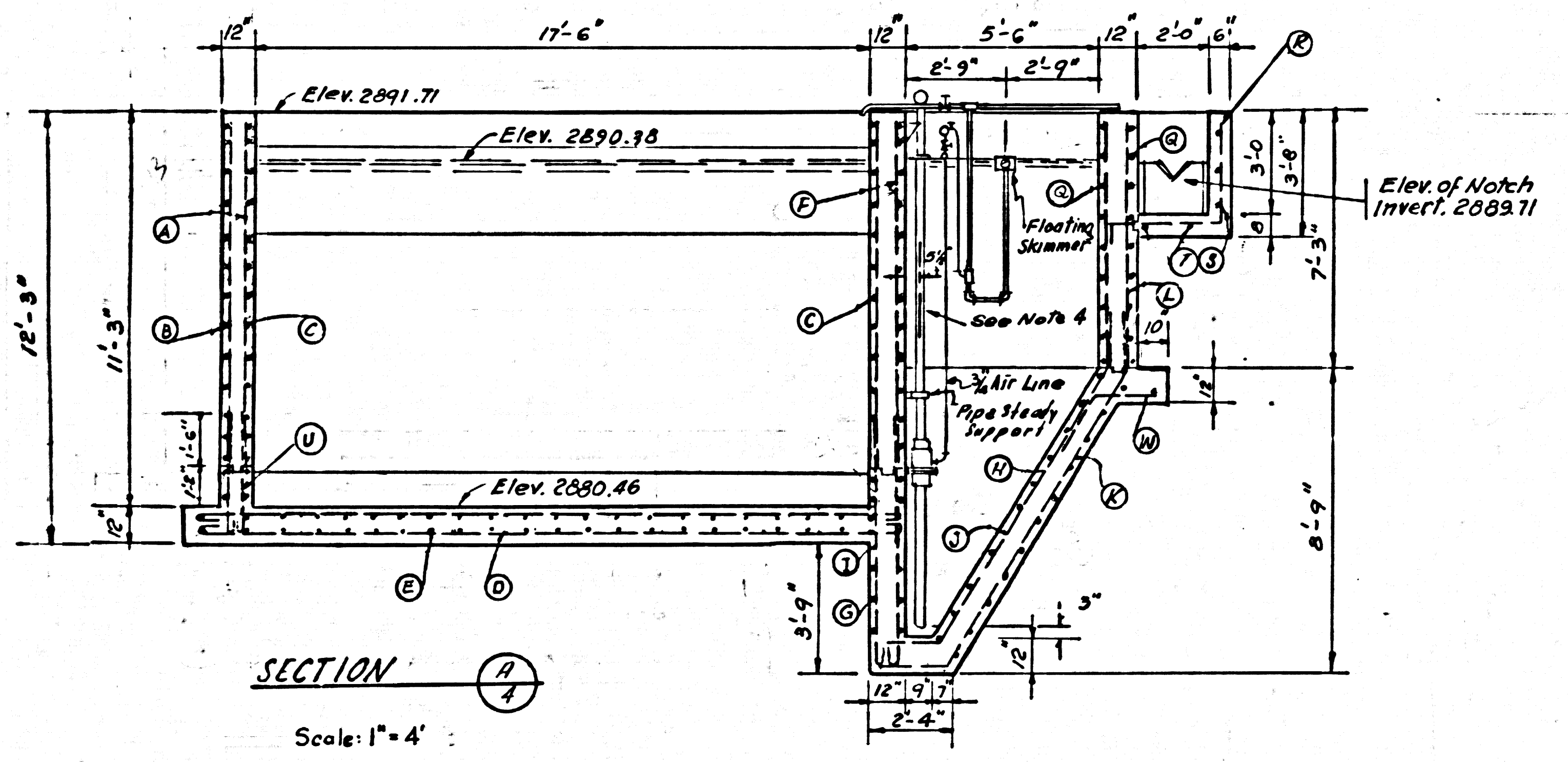
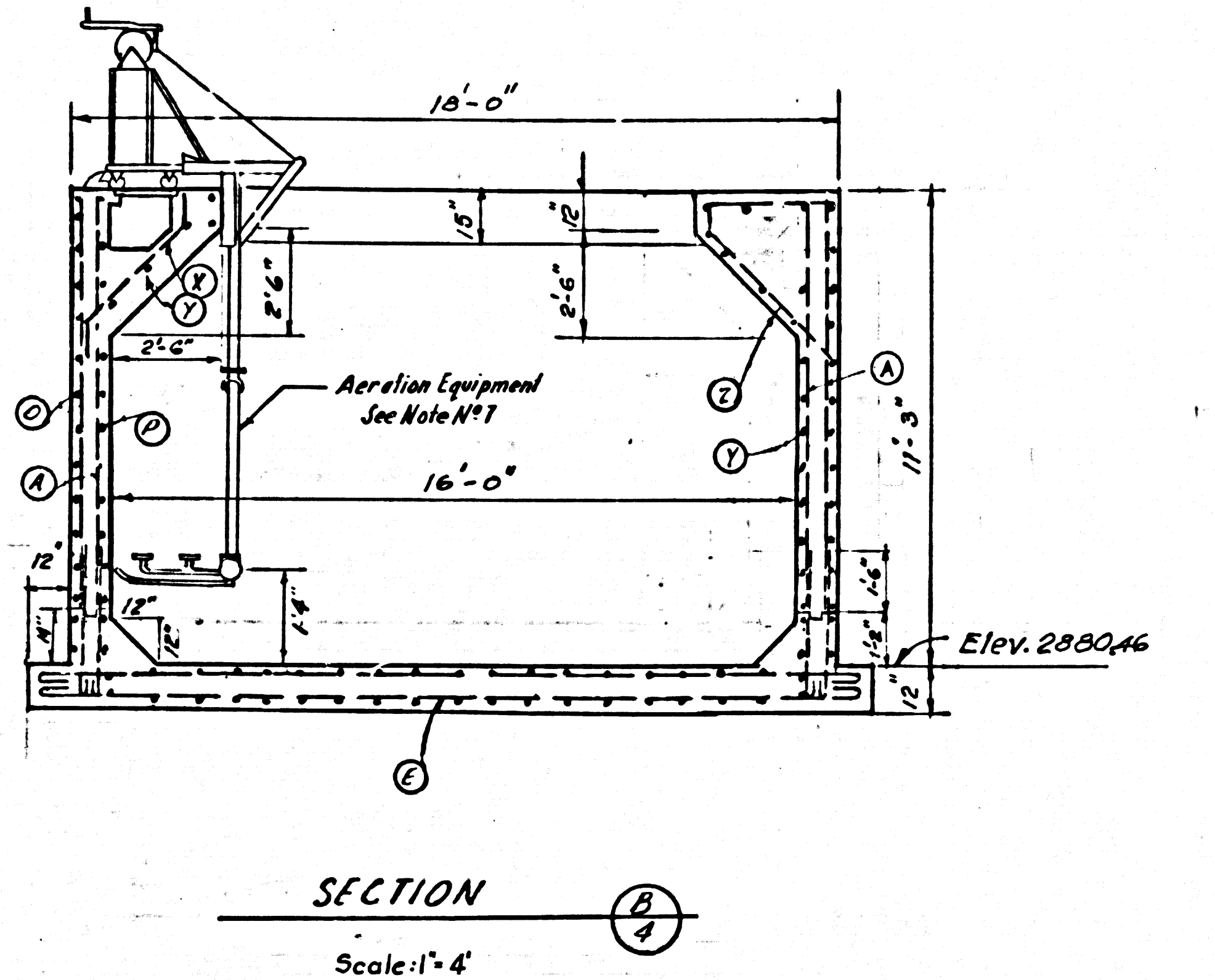
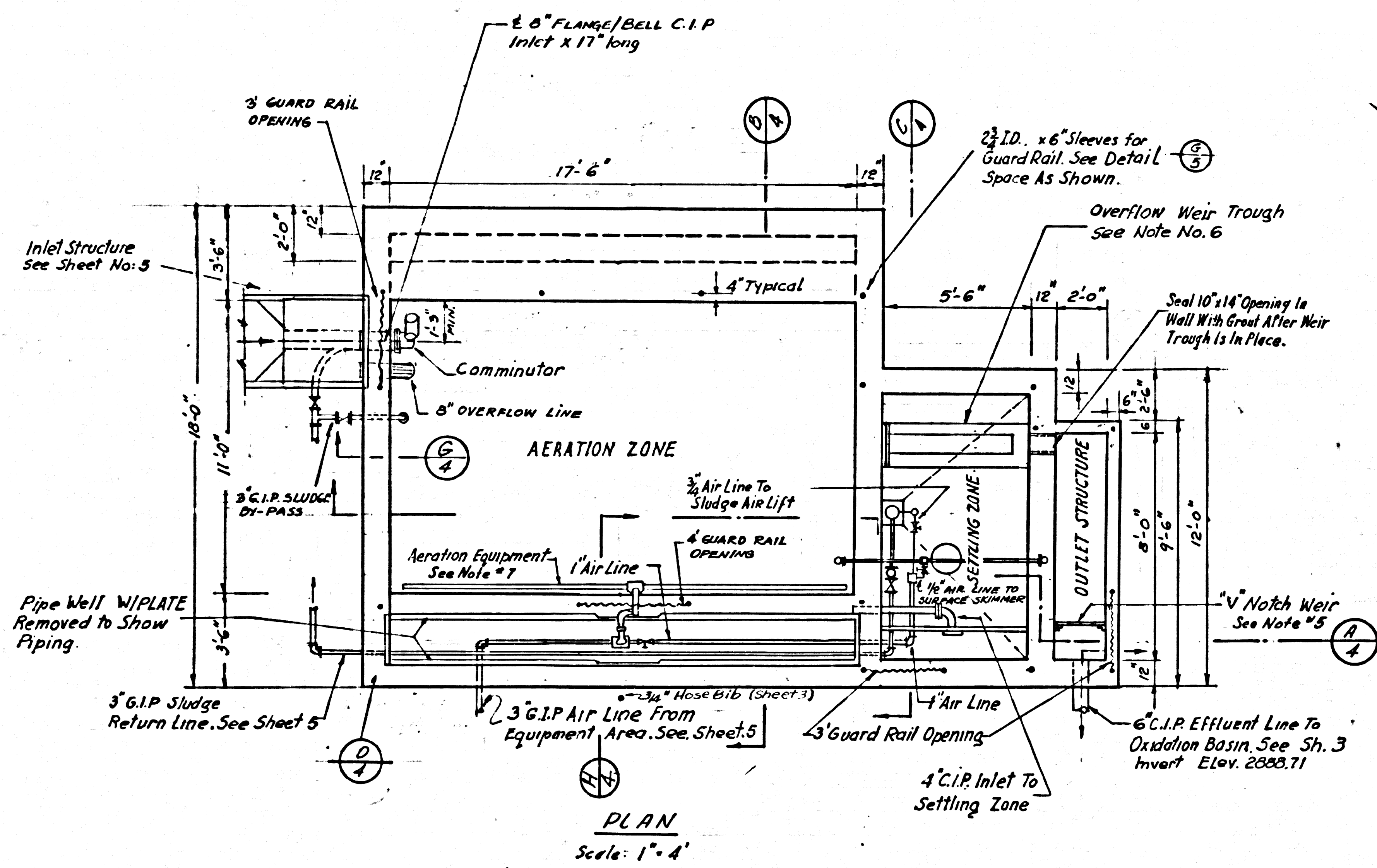


SECTION E-E
SCALE: 1"=2'

NEW SHALLOW J.C.
2 1/2' DIA. STA. 8+95.00
CONST. PER DWG. S-7
SCALE: 1/2"=1'-0"

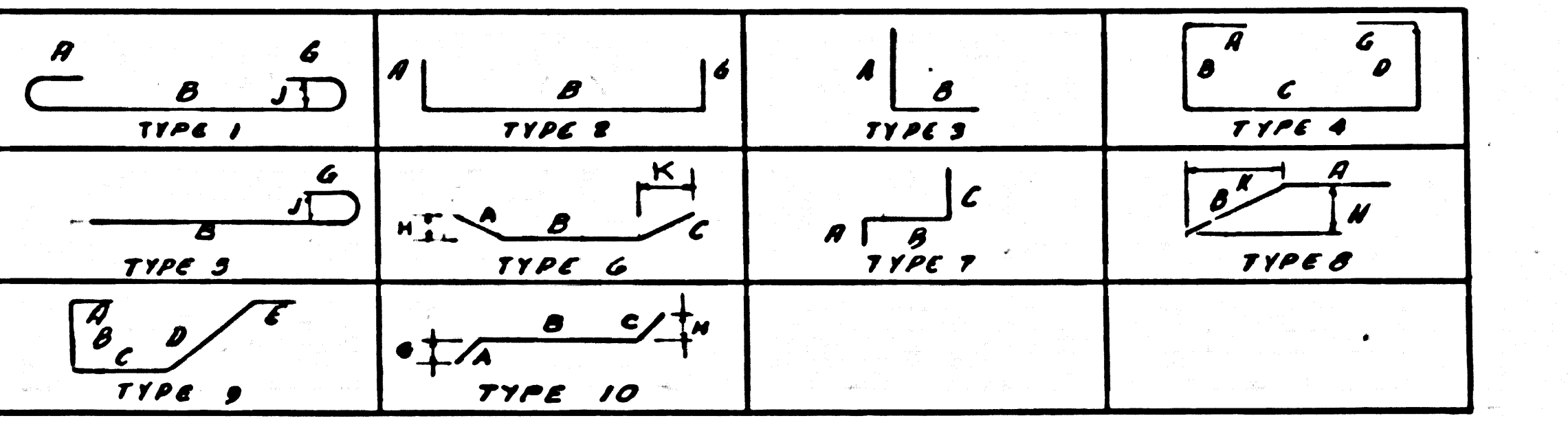
GRADING, PIPING DIAGRAM, DETAILS, FENCING

P.C. 6891	CAP. PROJ. 9609.07
DESIGNED: OBRADOVITCH	TRACED: OBRADOVITCH
SCALE: AS SHOWN	CHECKED: HOWARD
DATE: 10/64	SHEET 3 OF 12 SHEETS

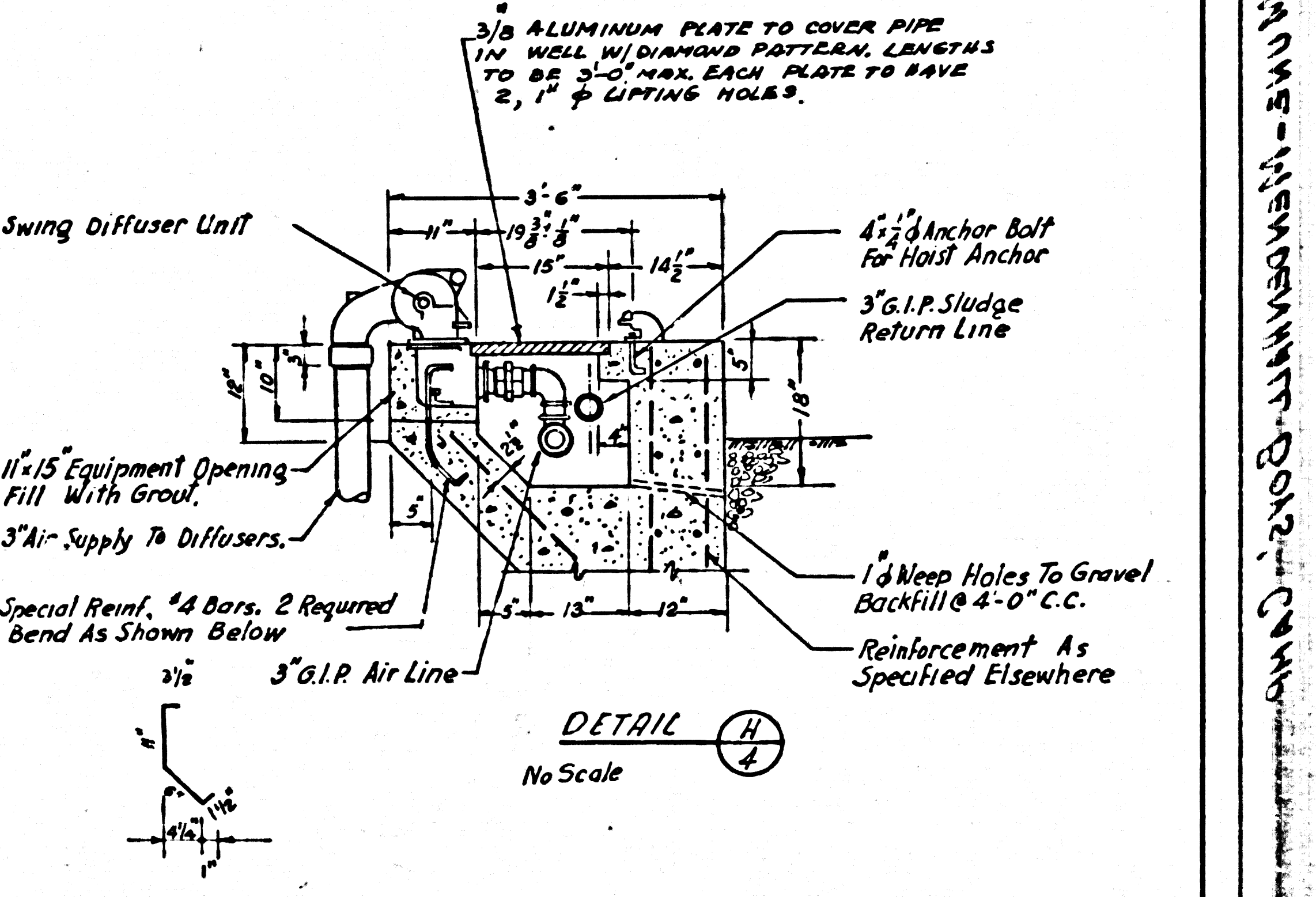


STEEL SCHEDULE

MARK	NO.	SIZE	SPACING	LENGTH	TYPE	SKETCH	A	B	C	D	E	G	H	K	J
A	70	4	18" C.C.	9'-9"	STRUT			9-9							
B	15	5	10" C.C.	18'-6"	STRUT			17-0							
C	30	5	"	17'-6"	STRUT										
D	30	4	"	21'-0"	1			20-2							4
E	42	4	"	20'-6"	1			19-8							4
F	82	4	18" C.C.	9'-9"	STRUT										
G	6	4	10" C.C.	11'-8"	STRUT										
H	18	4	Note 3	VARIABLE	6		Note 1	Note 1	2-0					1-1	1-8
I	18	4	36" C.C.	VARIABLE	5		Note 1	Note 1						5	1-1
J	20	4	10" C.C.	VARIABLE	4		Note 1	Note 1	Note 1					5	
K	21	4	Note 3	1"	6		Note 1	Note 1	2-2					1-1	1-8
L	32	4	18" C.C.	2'-1"	STRUT		Note 1	Note 1	2-2						
M	19	4	10" C.C.	7'-4"	"										
N	19	4	"	7'-4"	"										
O	15	5	"	19'-2"	"										
P	13	4	"	19'-2"	"										
Q	18	4	"	12'-6"	2			11-8						5	
R	9	4	"	10'-0"	2			9-2						5	
S	7	4	18" C.C.	7'-9"	7			10	9-7	3-4					
T	1	4	"	15'-9"	2			3-4	9-1					5-4	
U	55	4	36" C.C.	3'-10"	5			3-5						5	
V	60	4	10" C.C.	9'-9"	3			4-8	5-1						4
W	18	4	18" C.C.	2'-9"	8			1-0	1-0					10	7
X	13	4	"	5'-0"	10			3-8	5					5 1/2	5 1/2
Y	36	4	10" C.C.	19'-2"	STRUT										
Z	13	4	18" C.C.	8'-7"	9			3-2	8	4-3	6				
BB	32	4	10" C.C.	17'-3"	3			5-6	5-11						



- NOTES:**
- VARIABLE LENGTH, BEND IN FIELD AS REQUIRED
 - EXTEND BARS VERTICALLY TO WITHIN 2" OF TOP OF STRUCTURE.
 - FAN OUT BARS FROM BASE TO A MAXIMUM SPACING OF 18" C.C. CUT OFF BARS AS NECESSARY TO MAINTAIN A MINIMUM SPACING OF 6" C.C.
 - AIR LIFT ASSEMBLY, CHICAGO PUMP CO. UNIT NO. SL-103, E-1 OR EQUAL.
 - V-NOTCH MEASURING WEIR, CHICAGO PUMP CO. UNIT NO. SL-103, A-4 OR EQUAL.
 - OVERFLOW TROUGH, CHICAGO PUMP CO. UNIT NO. SL-103, A-4 OR EQUAL, EXCEPT THAT TROUGH UNIT TO BE GALVANIZED AFTER FABRICATION. TOP OF TROUGH TO BE ELEV. 2890.38
 - AERATION SWING DIFFUSER AND HEADER ASSEMBLY, CHICAGO PUMP CO. UNIT SL-103, TYPE M OR EQUAL, EXCEPT THAT HEADER PIPE SHALL HAVE A RIB JOINT.
 - INLET BAFFLE, CHICAGO PUMP CO. UNIT NO. SL-103, A-4 OR EQUAL, EXCEPT THAT BAFFLES AND SUPPORTS SHALL BE MADE OF REDWOOD.



TREATMENT TANK

PC. 6891 CAPPROJ. 960907

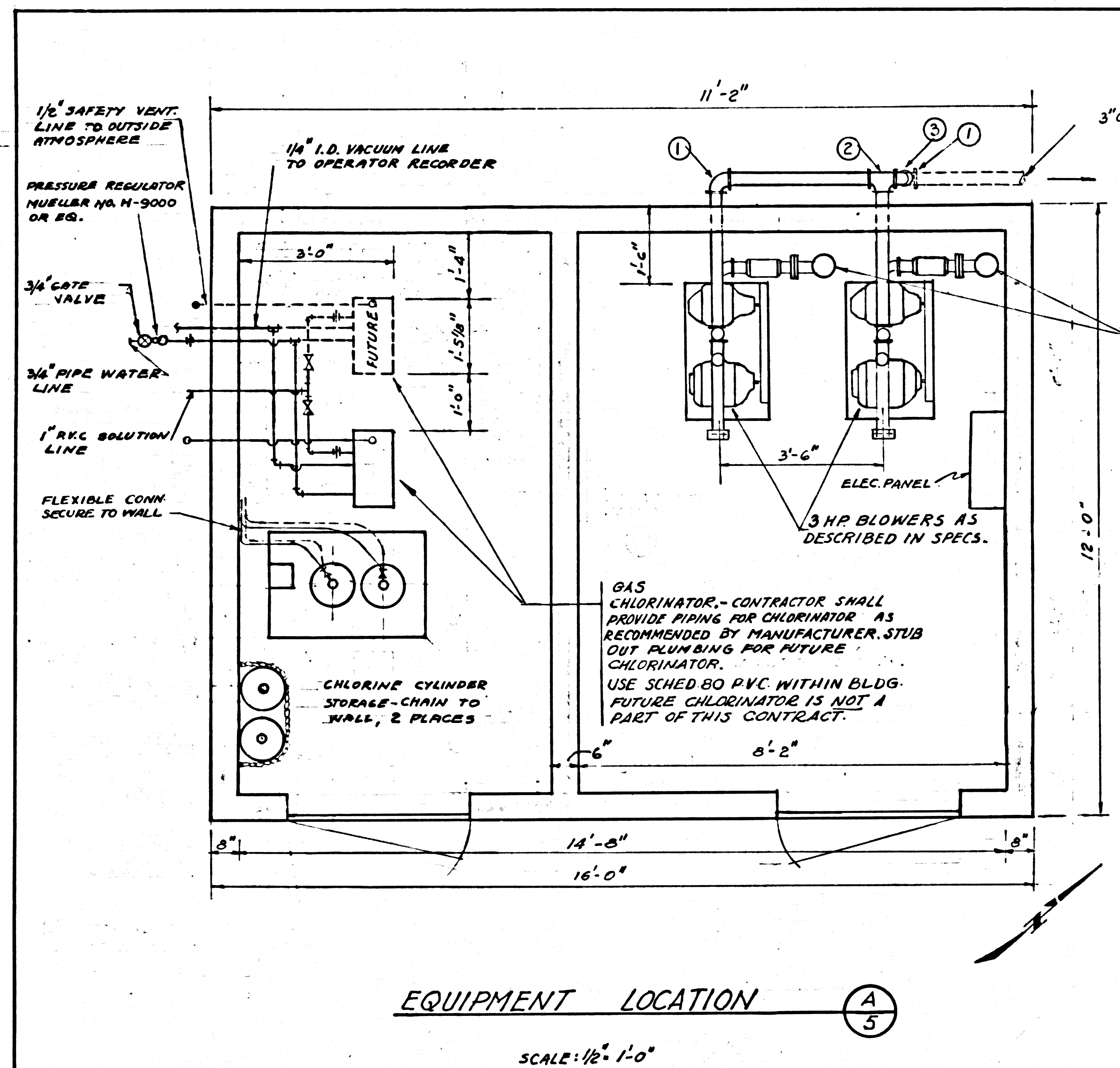
DESIGNED: OBRADOVITCH TRACED: OBRADOVITCH CHECKED: T. HOWARD

SCALE: AS SHOWN DATE: NOV. 64 SHEETS: 4 OF 12 SHEETS

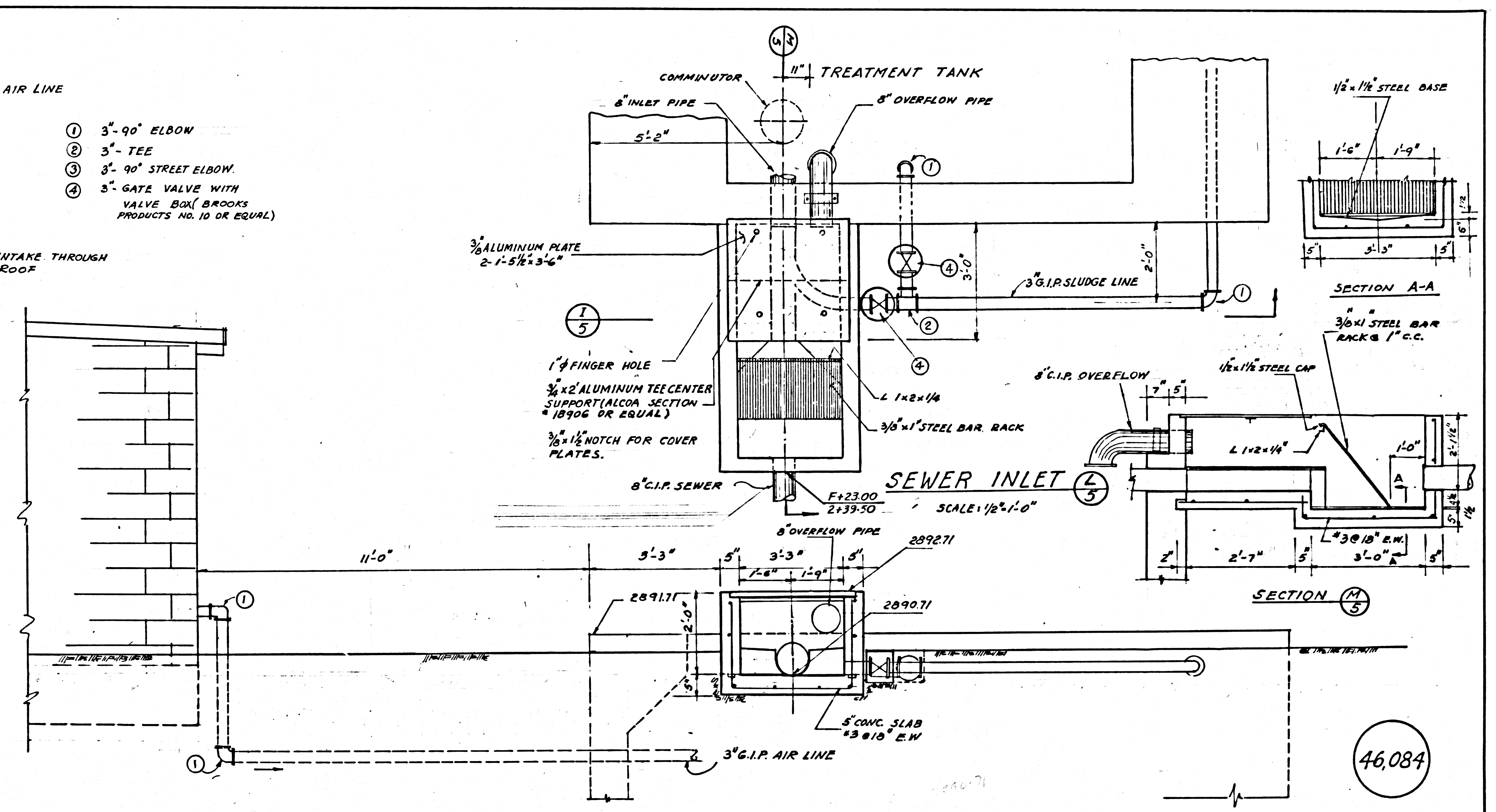
46,083

SHEET NO. 4 OF 12 SHEETS - TREATMENT TANK - CONCRETE

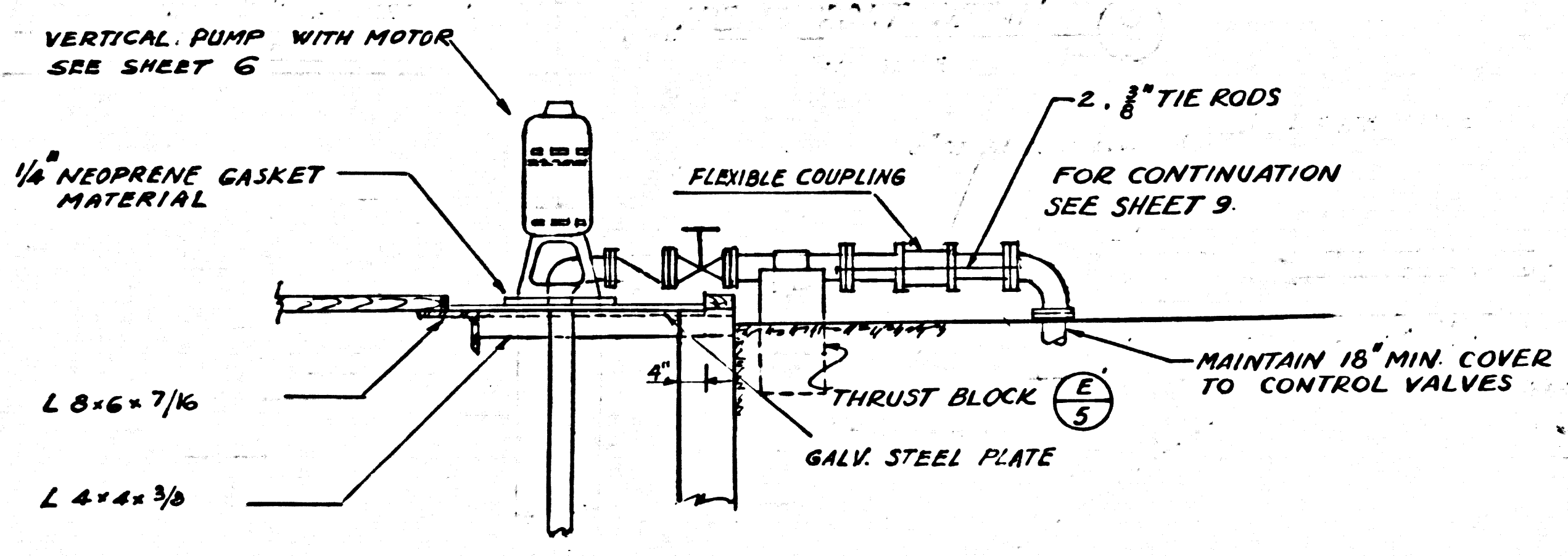
158331 CWS 5507 2503 01 MONS-WENDEWITT B02, CWSB



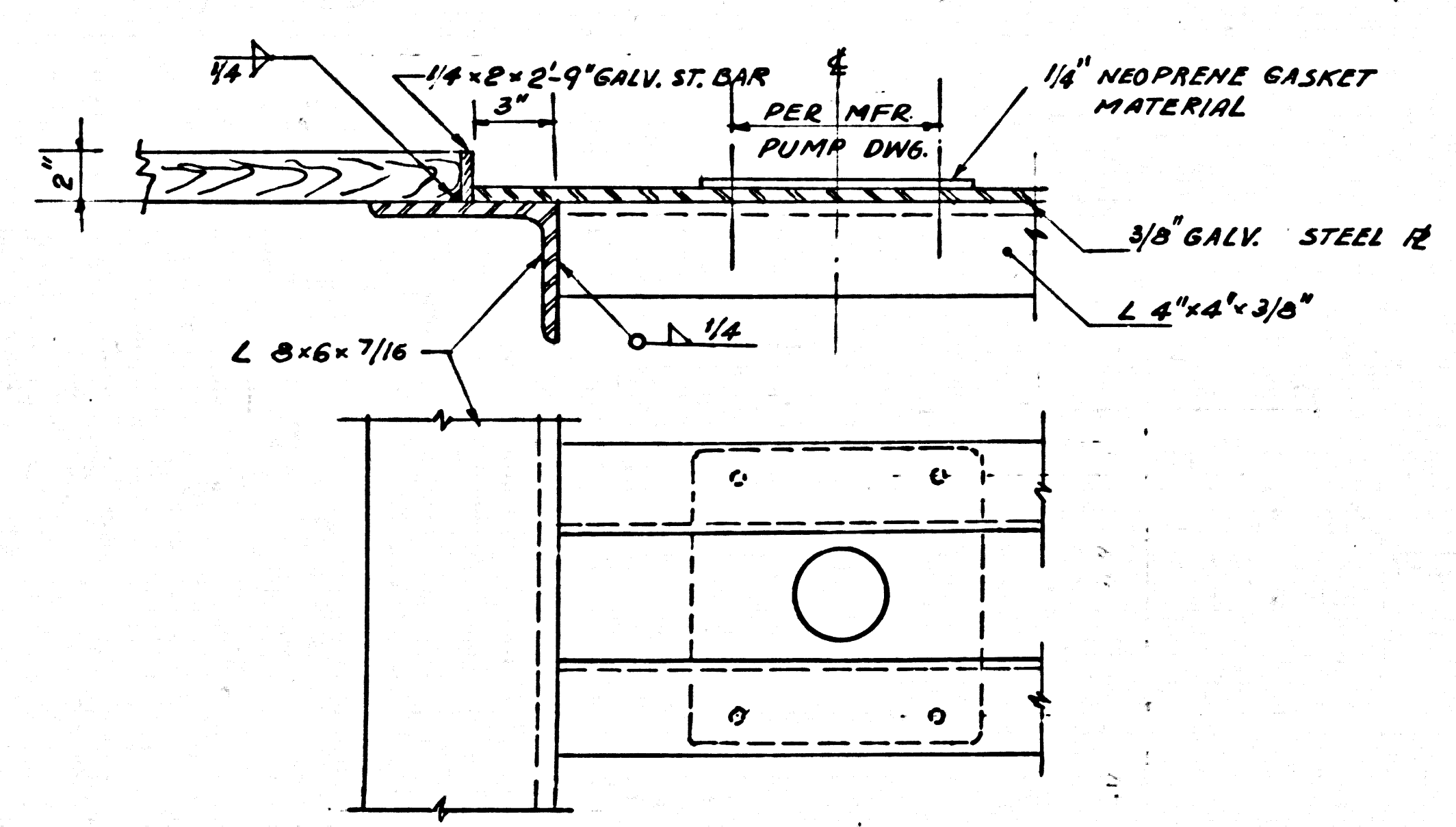
EQUIPMENT LOCATION
 SCALE: 1/8" = 1'-0"



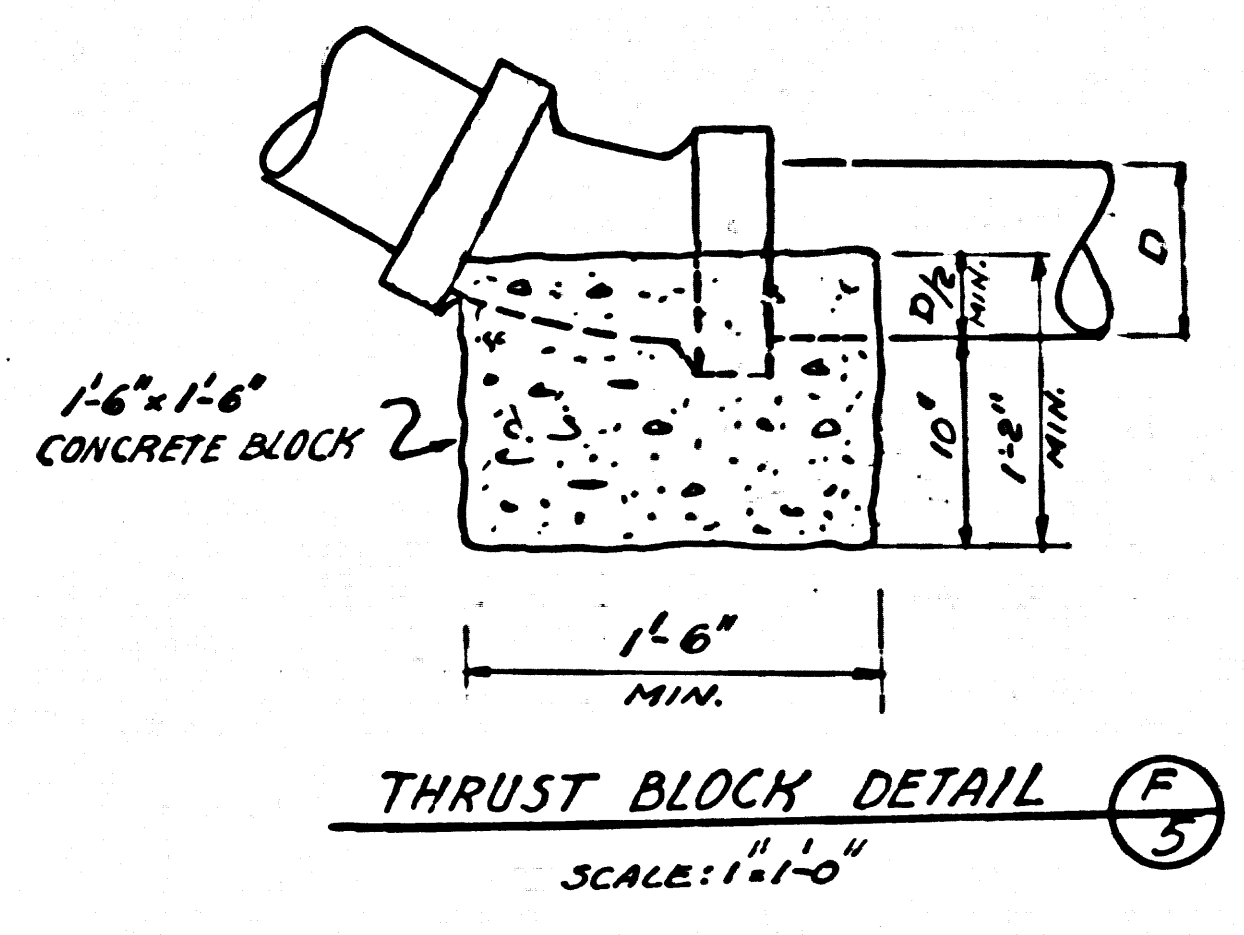
SECTION 1-5
 SCALE: 1/2" = 1'-0"



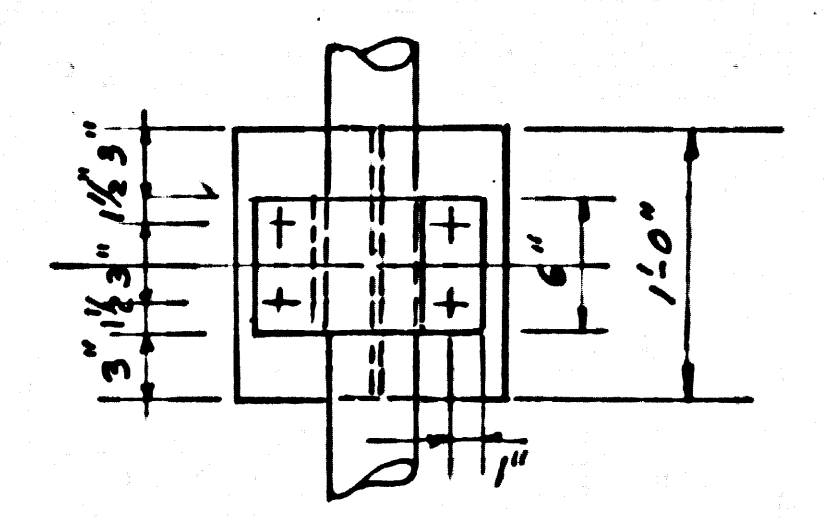
PUMP MOUNTING DETAIL (B)



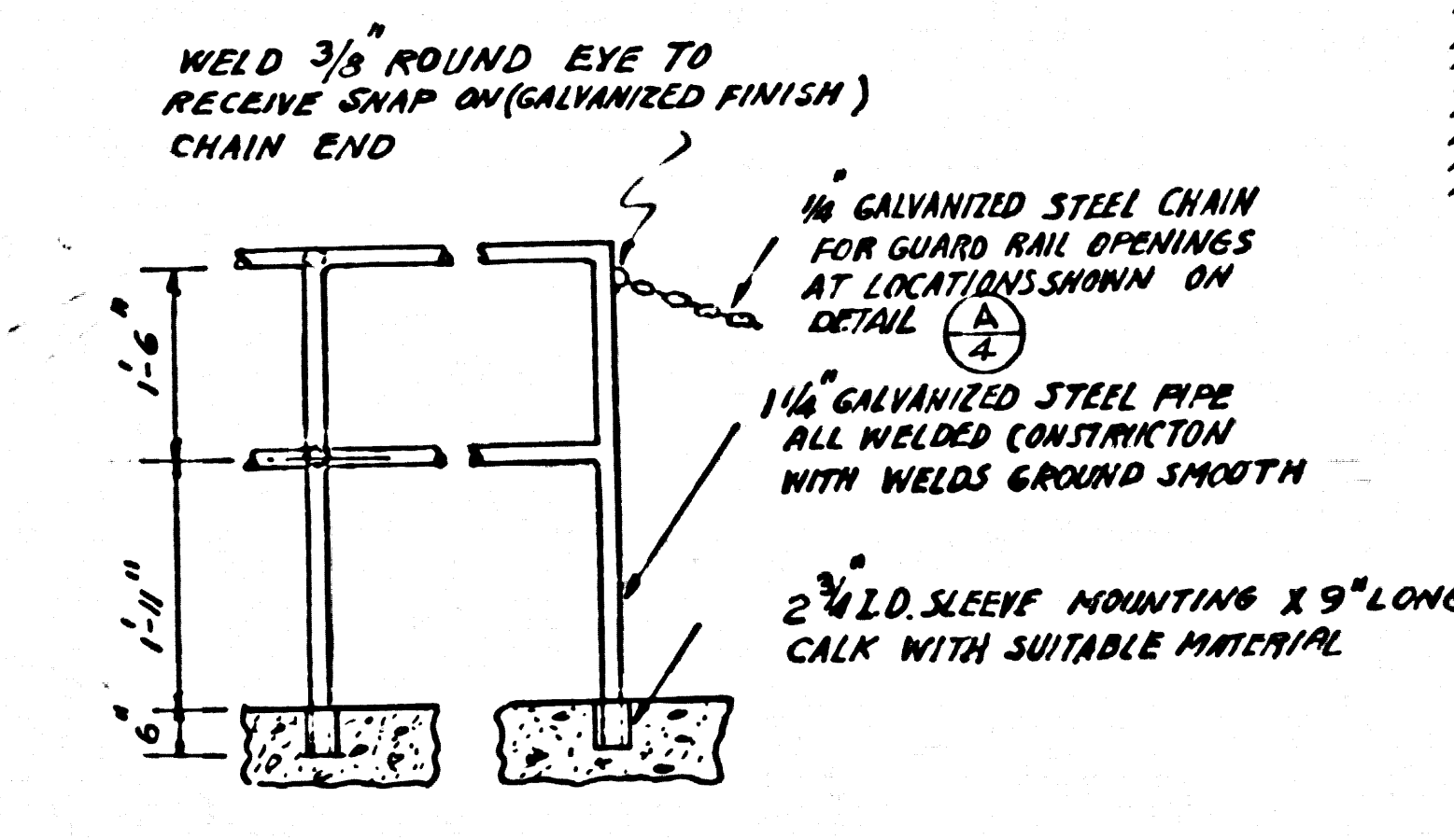
SUPPORT CONNECTION DETAIL (H)
 SCALE: 1/2" = 1'-0"



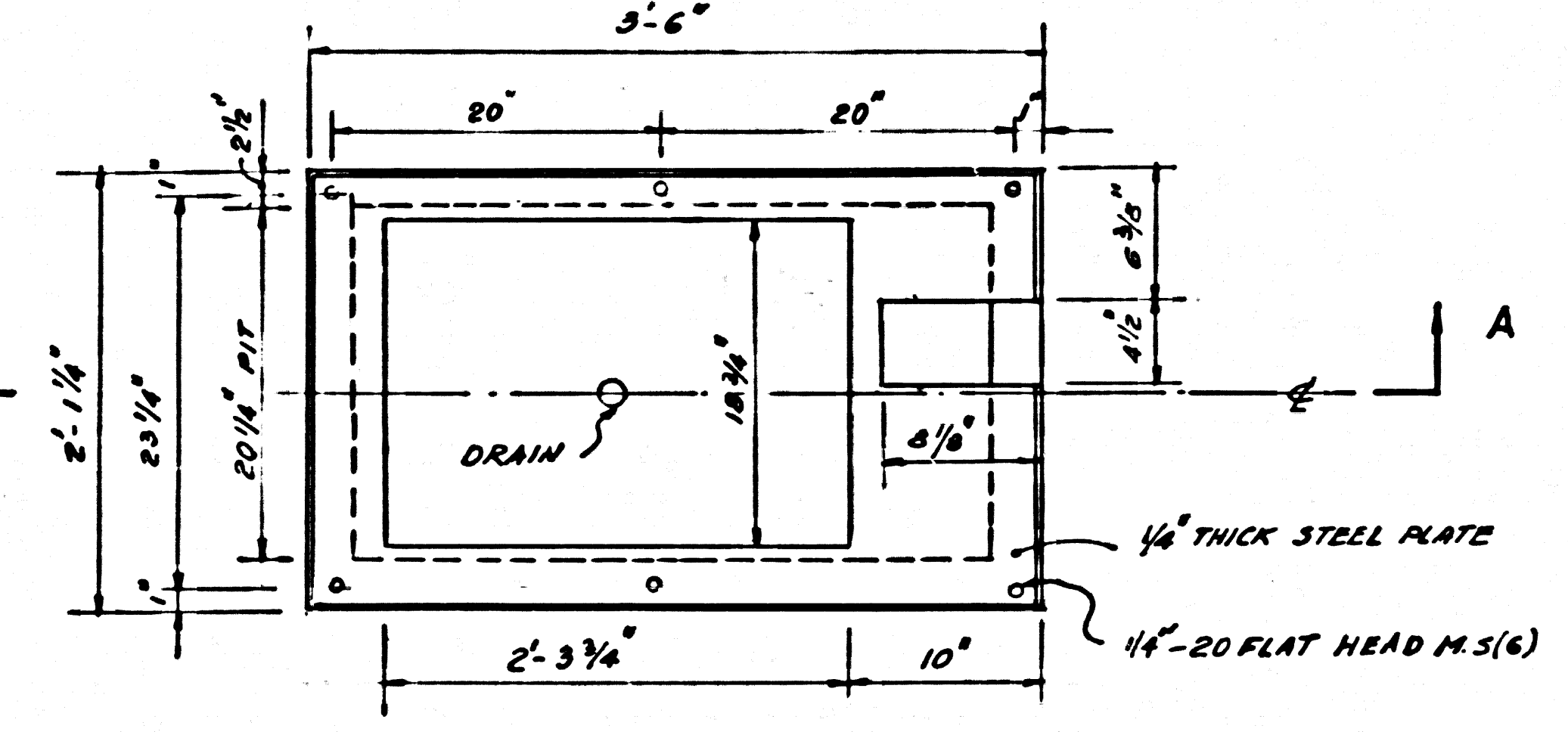
THRUST BLOCK DETAIL (F)
 SCALE: 1" = 1'-0"



THRUST BLOCK (E)
 SCALE: 1" = 1'-0"



GUARD RAIL DETAIL (G)
 NO SCALE

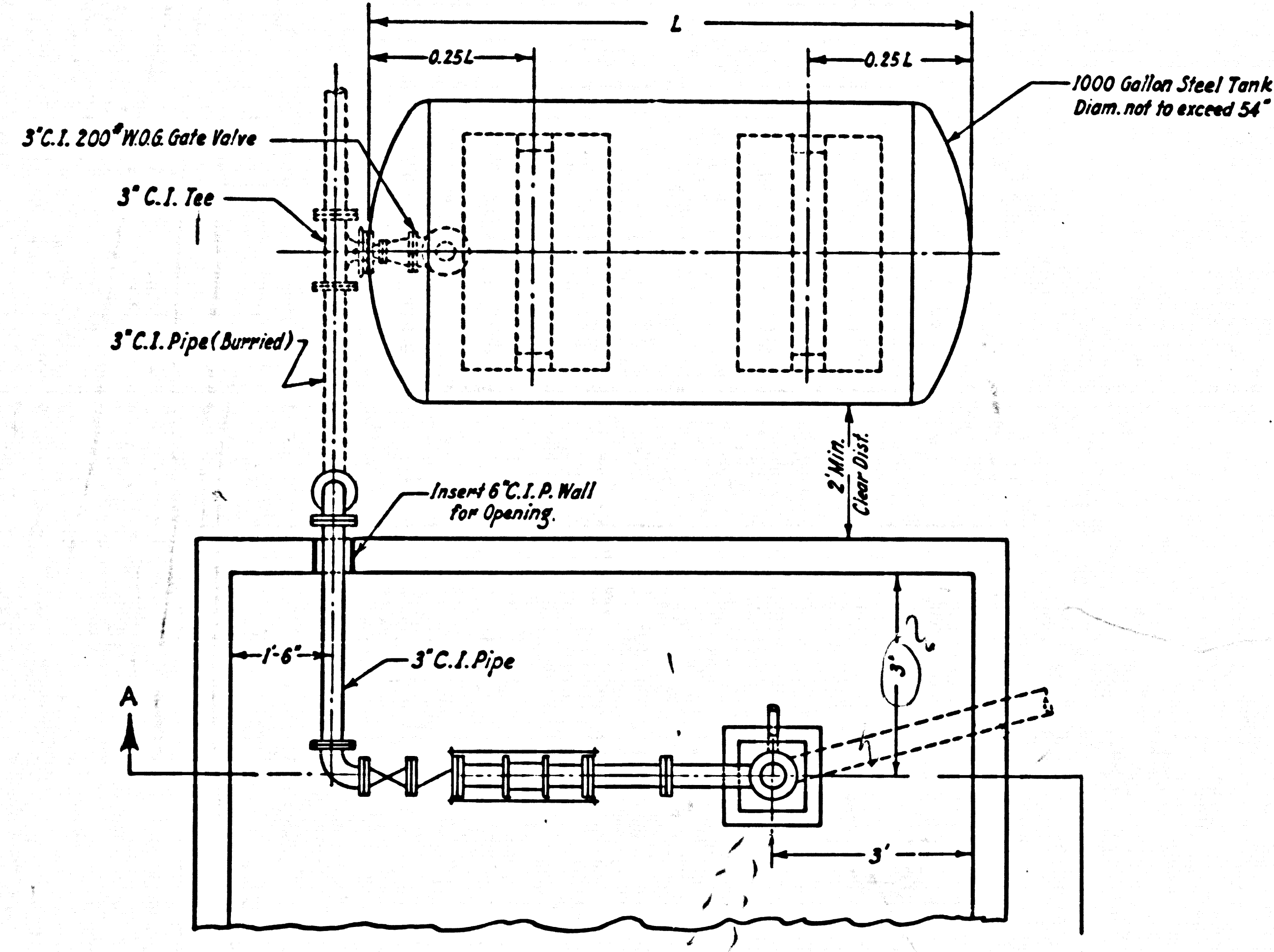


SECTION A-A
 SCALE: 1" = 1'-0"
SCALE PIT & COVER PLATE (K)
 SCALE: 1" = 1'-0"

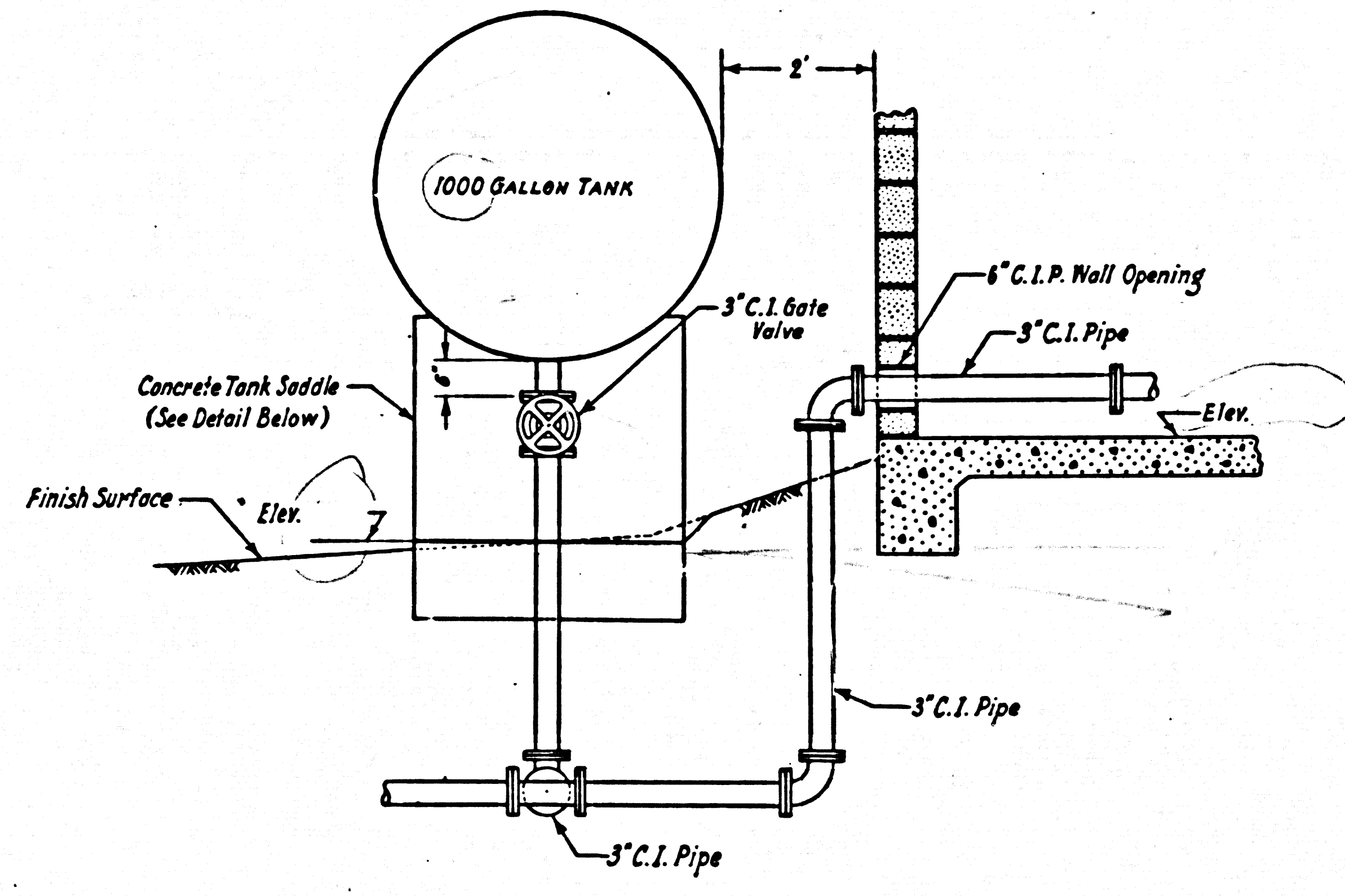
MECHANICAL EQUIPMENT AND MISC. DETAILS		
PC 6891	CAP. PROJ: 9609.07	
DESIGNED: OBRADOVITCH	TRACED: OBRADOVITCH	CHECKED: HOWARD
SCALE: AS SHOWN	DATE: 10/1/964	SHEET NR 5 OF 12 SHEETS

PC 6891 CWS 5507 2503 01 MONS-WENDEWITT B02, CWSB

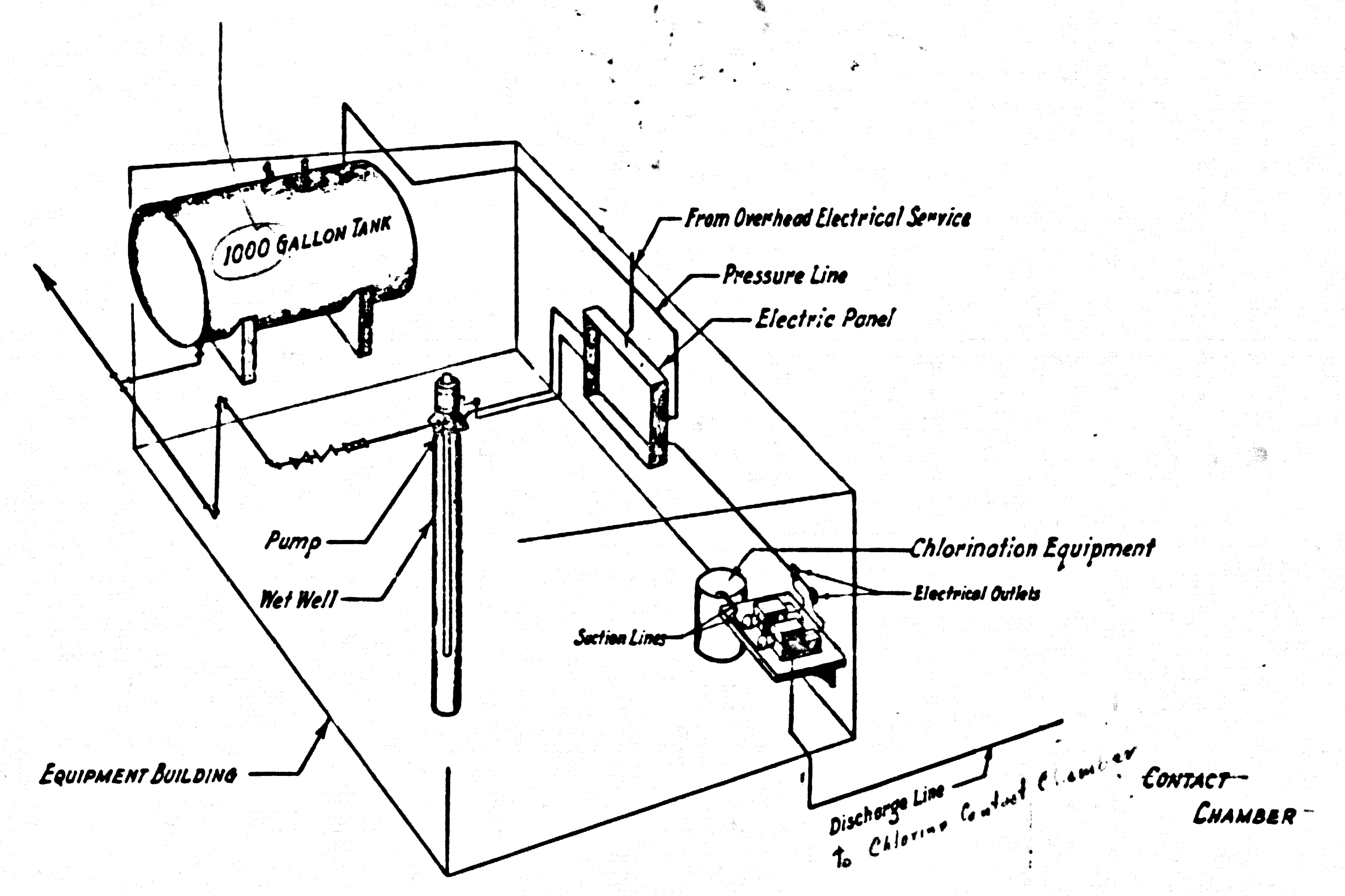
46,084



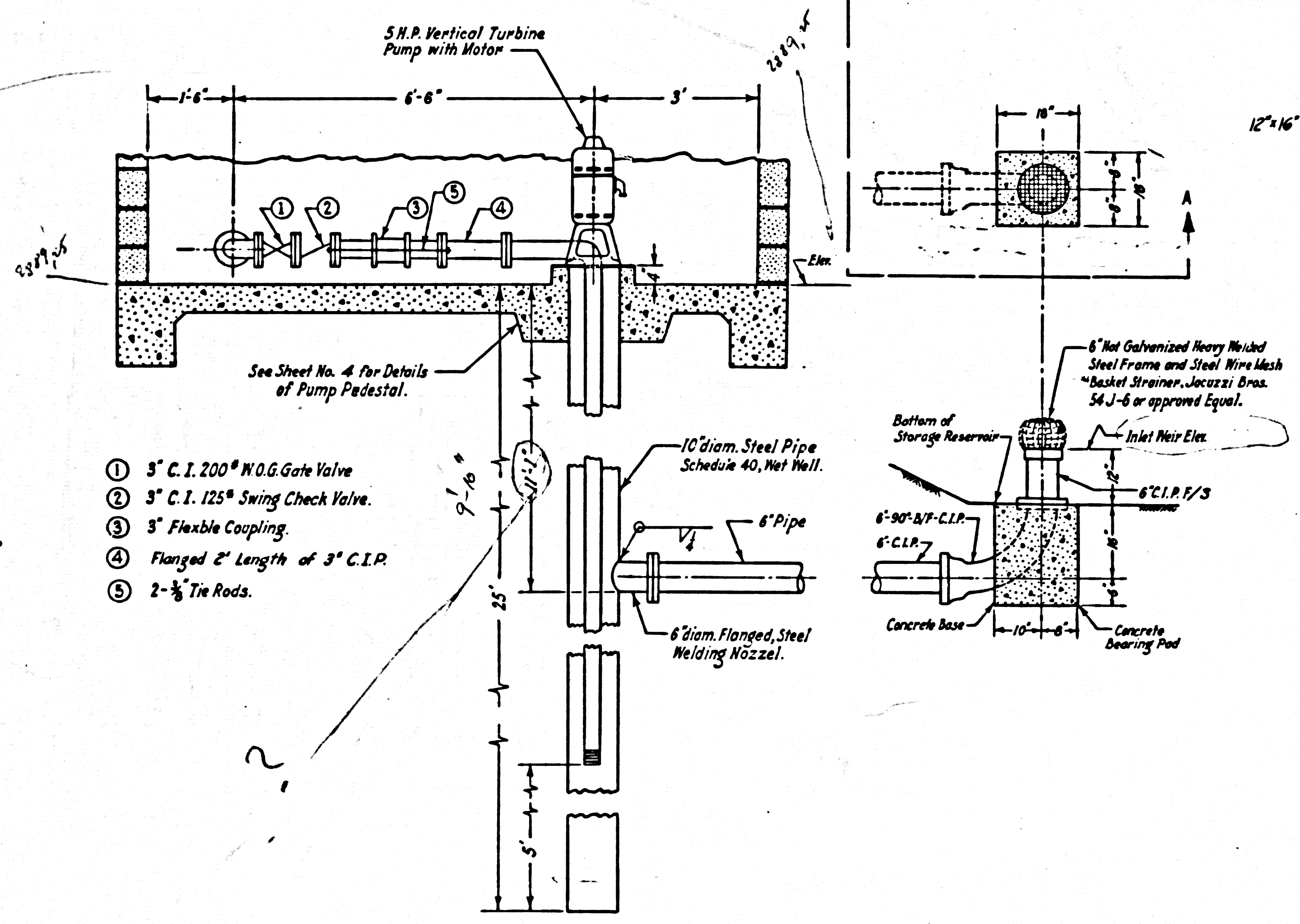
PUMPING EQUIPMENT LAYOUT
Scale 1/2" = 1'



PROFILE
Scale: 1/2" = 1'

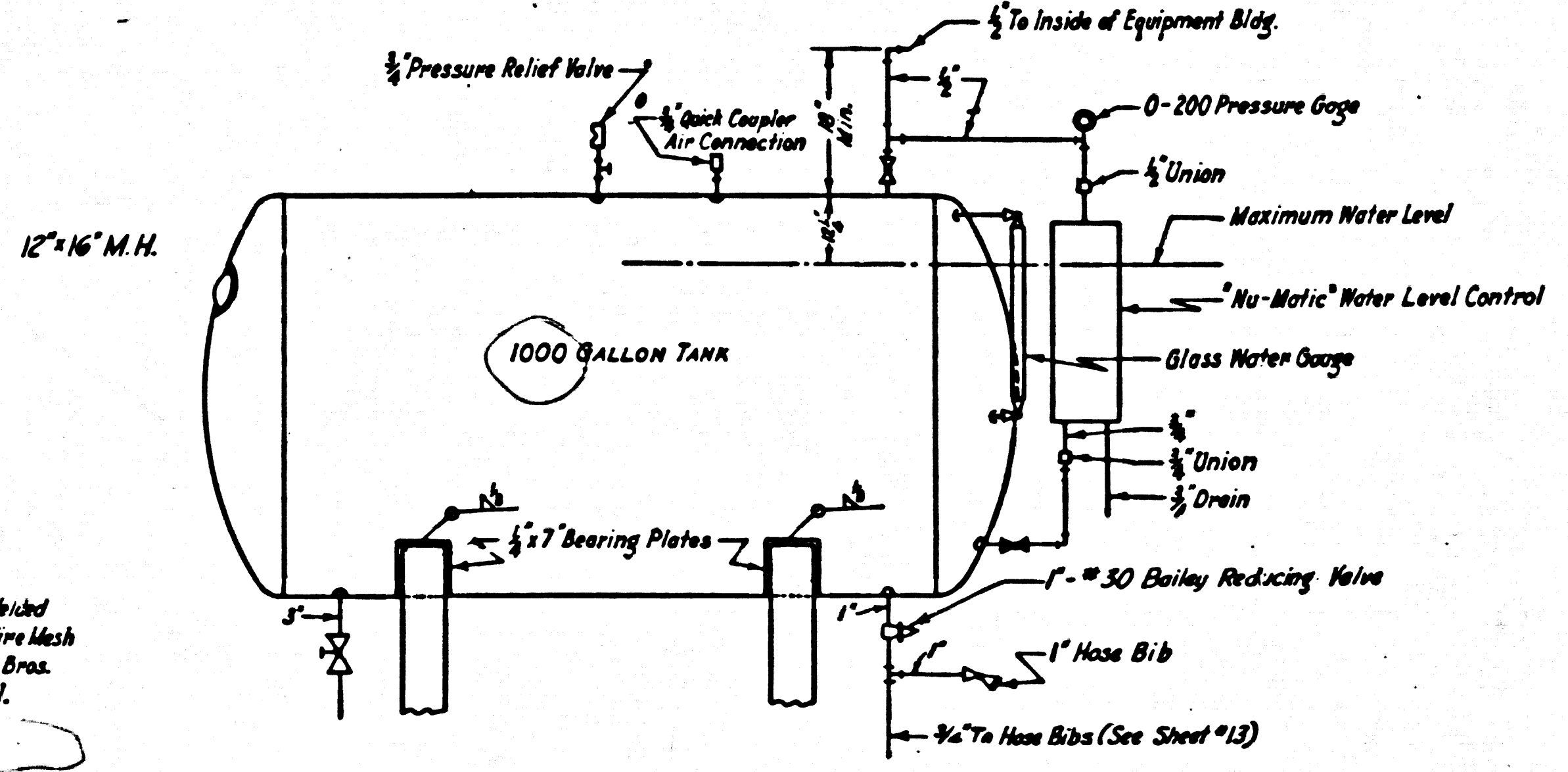


EQUIPMENT LAYOUT

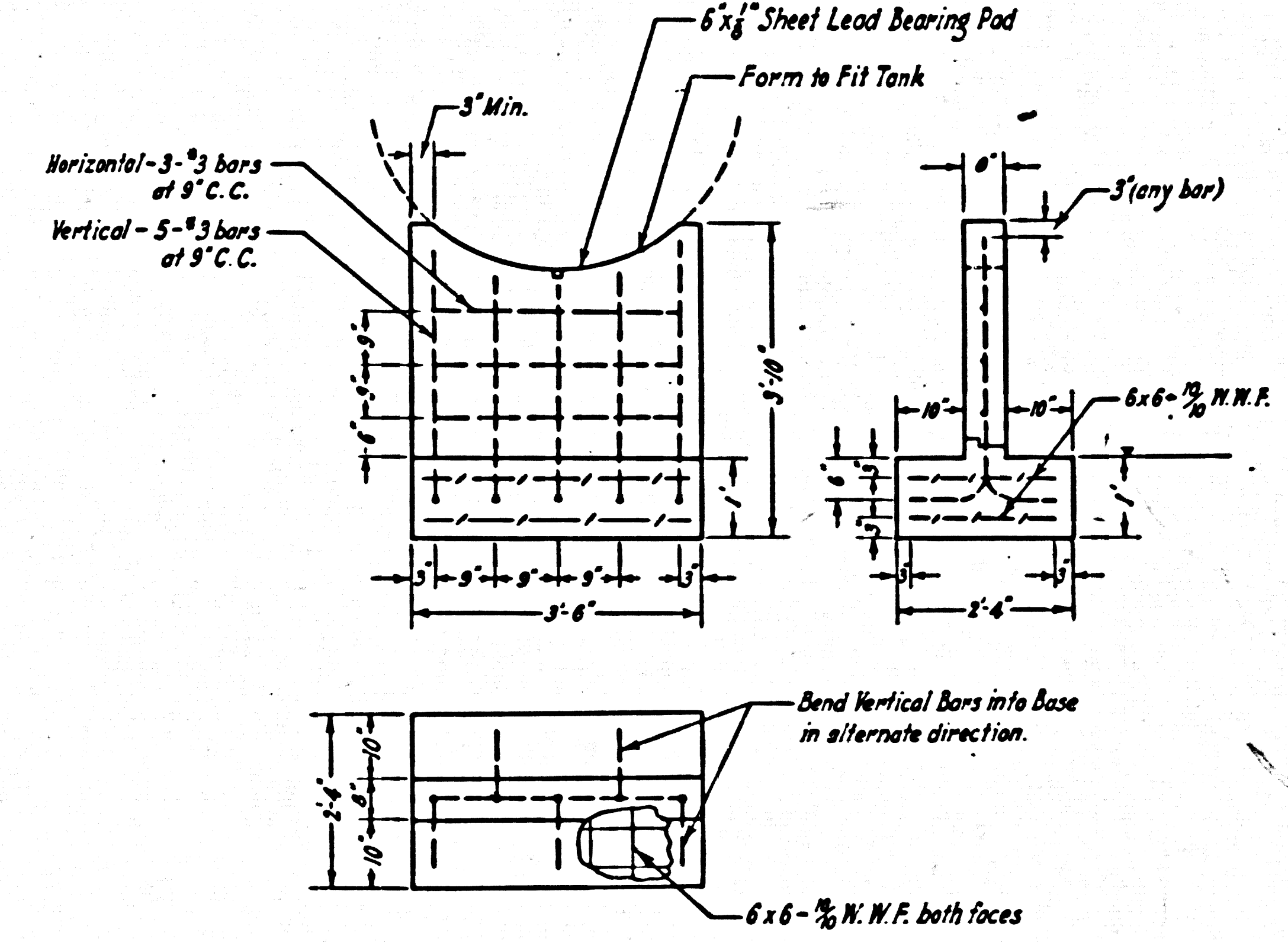


SECTION A-A
Scale: 1/2" = 1'

- ① 3" C.I. 200# W.O.G. Gate Valve
- ② 3" C.I. 125# Swing Check Valve
- ③ 3" Flexible Coupling
- ④ Flanged 2' Length of 3" C.I.P.
- ⑤ 2-3/8" Tie Rods.

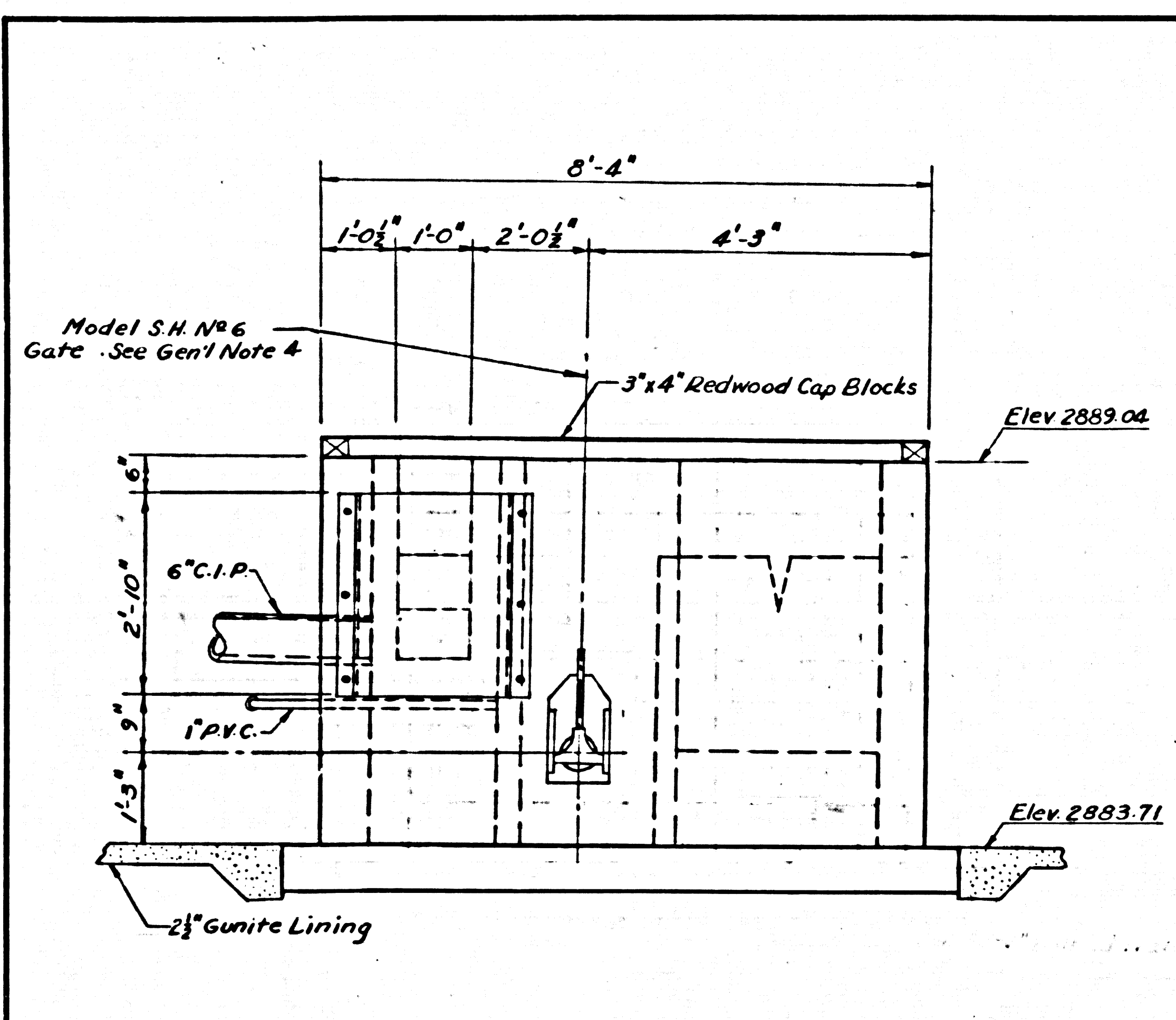


PNEUMATIC TANK FITTINGS
Scale: 1/2" = 1'

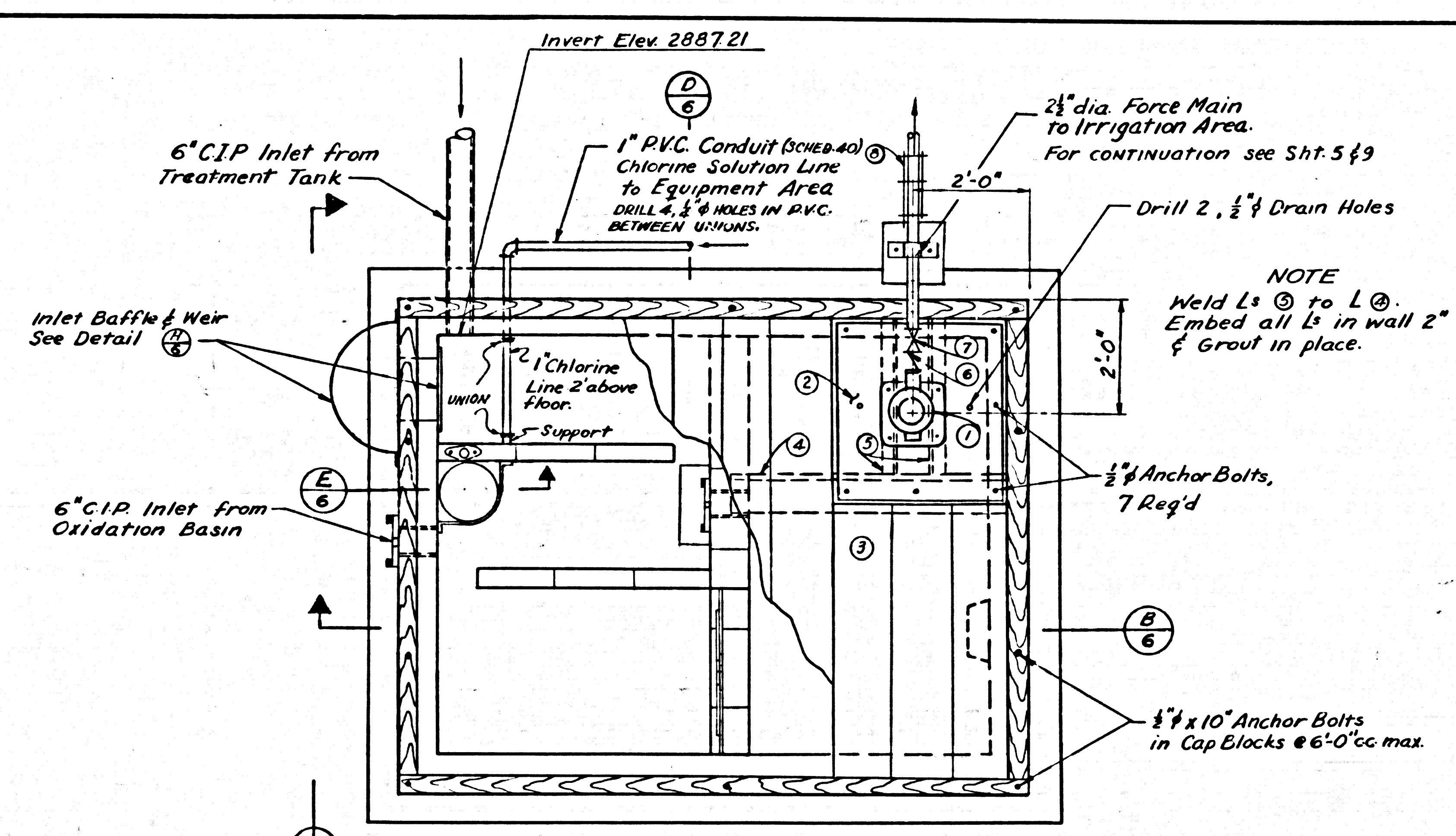


CONCRETE TANK SADDLE

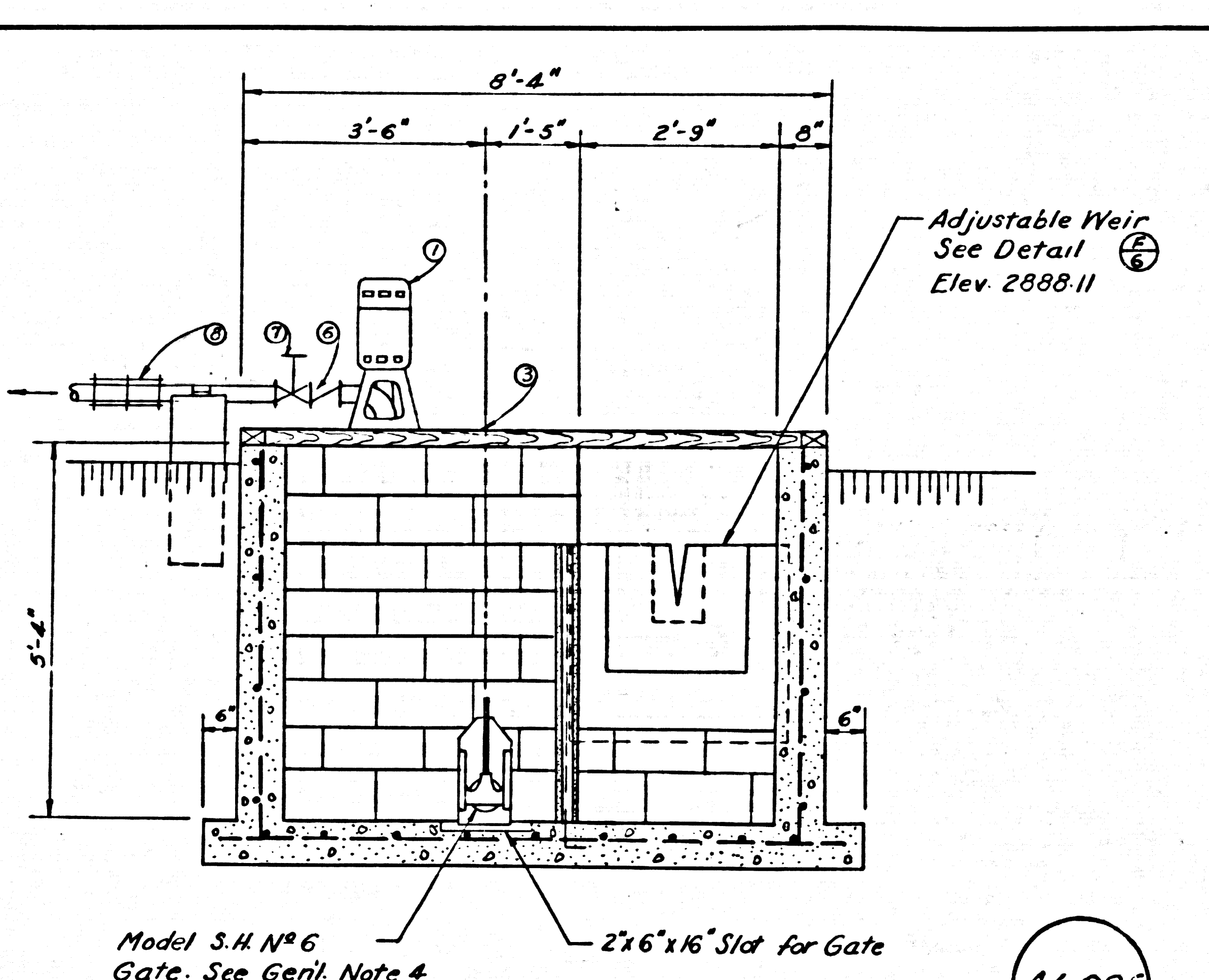
MECHANICAL EQUIPMENT		
PC 6891	PUMP STA	CAP PROJ. 960907
DESIGNED: SATERMO	TRACED:	CHECKED:
SCALE: AS SHOWN	DATE: Y	SHEET NO. 5A OF 12 SHEETS



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

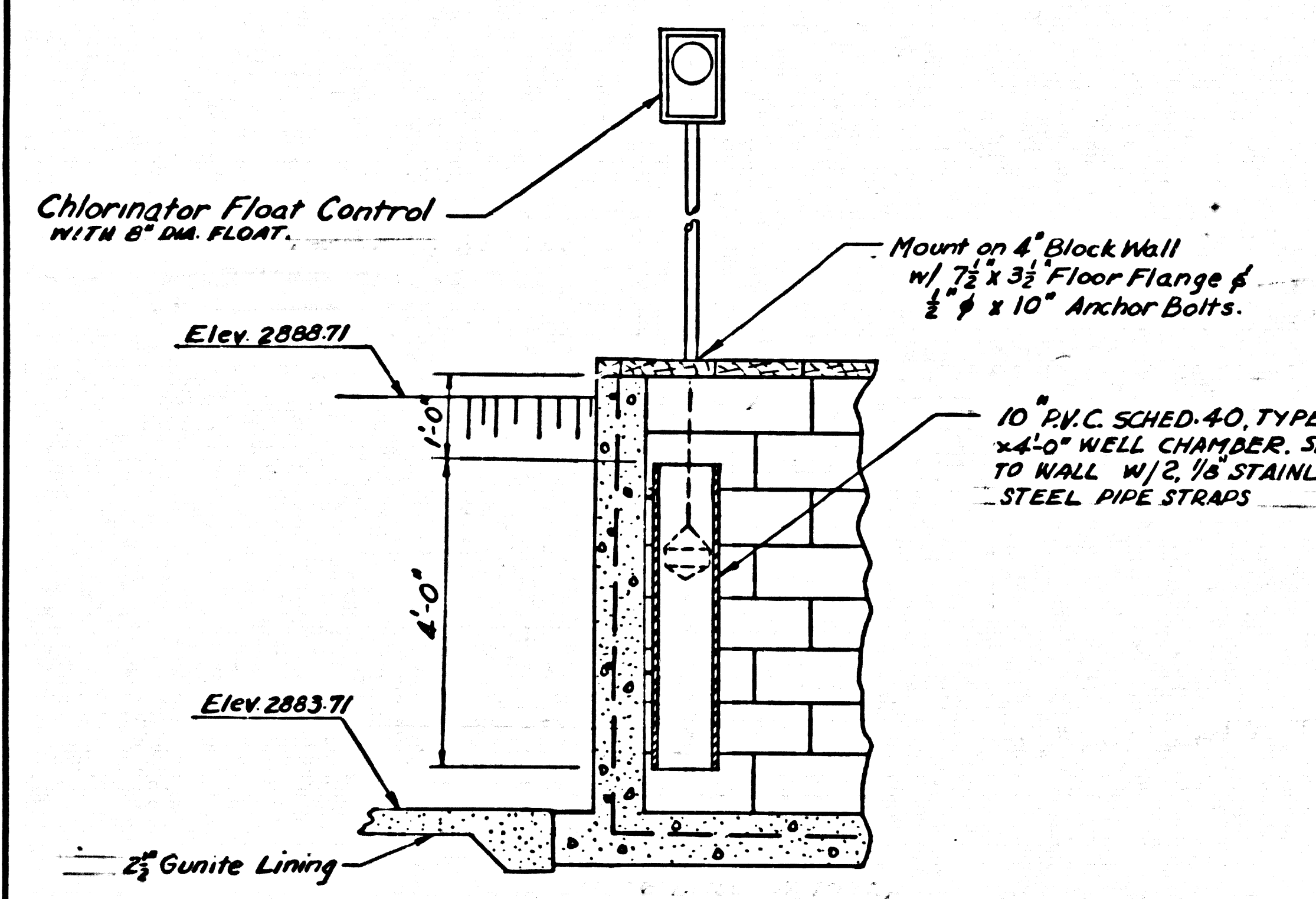


PLAN OF CONTACT CHAMBER
SCALE: 1/2" = 1'-0"

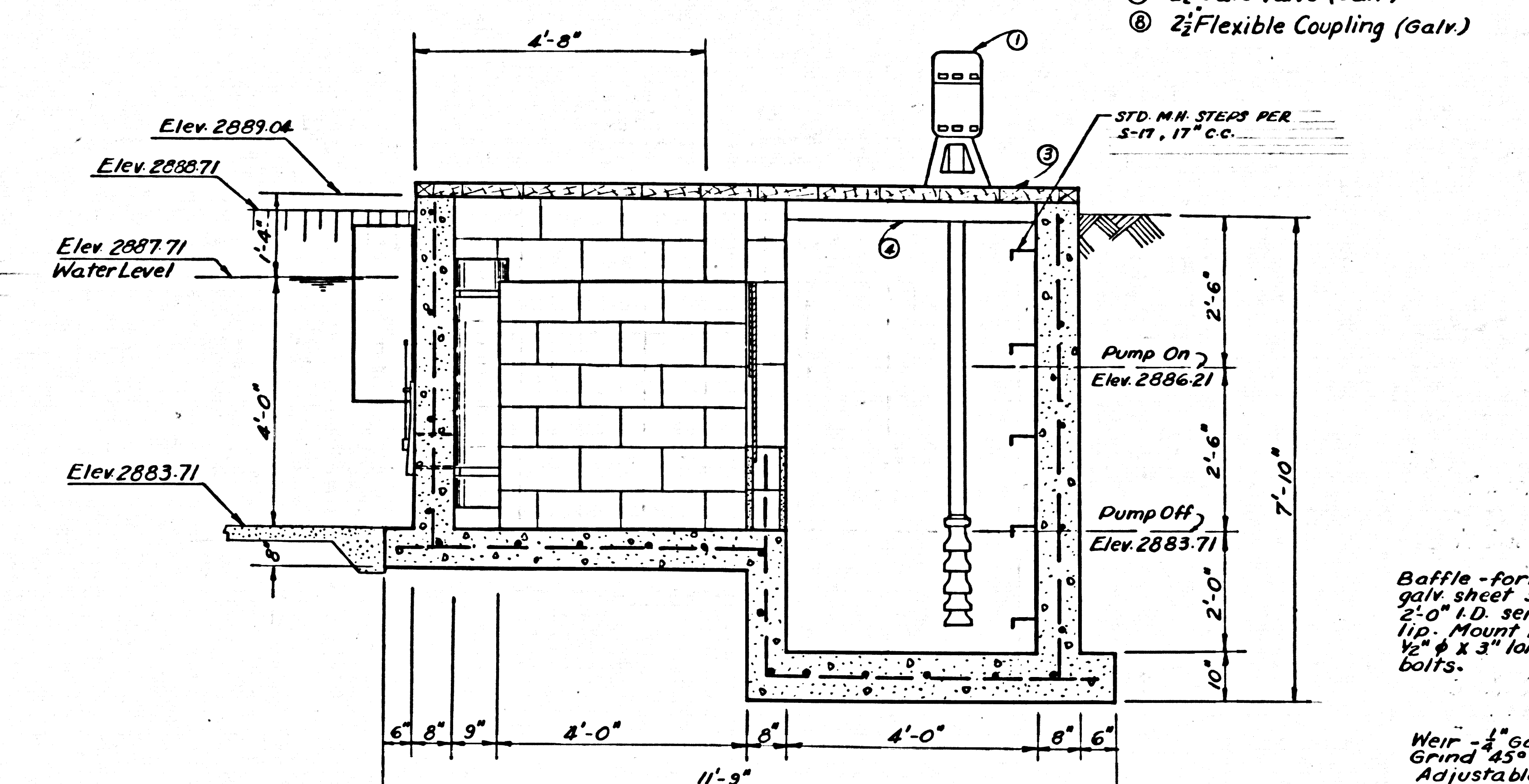


SECTION D
SCALE: 1/2" = 1'-0"

46,086

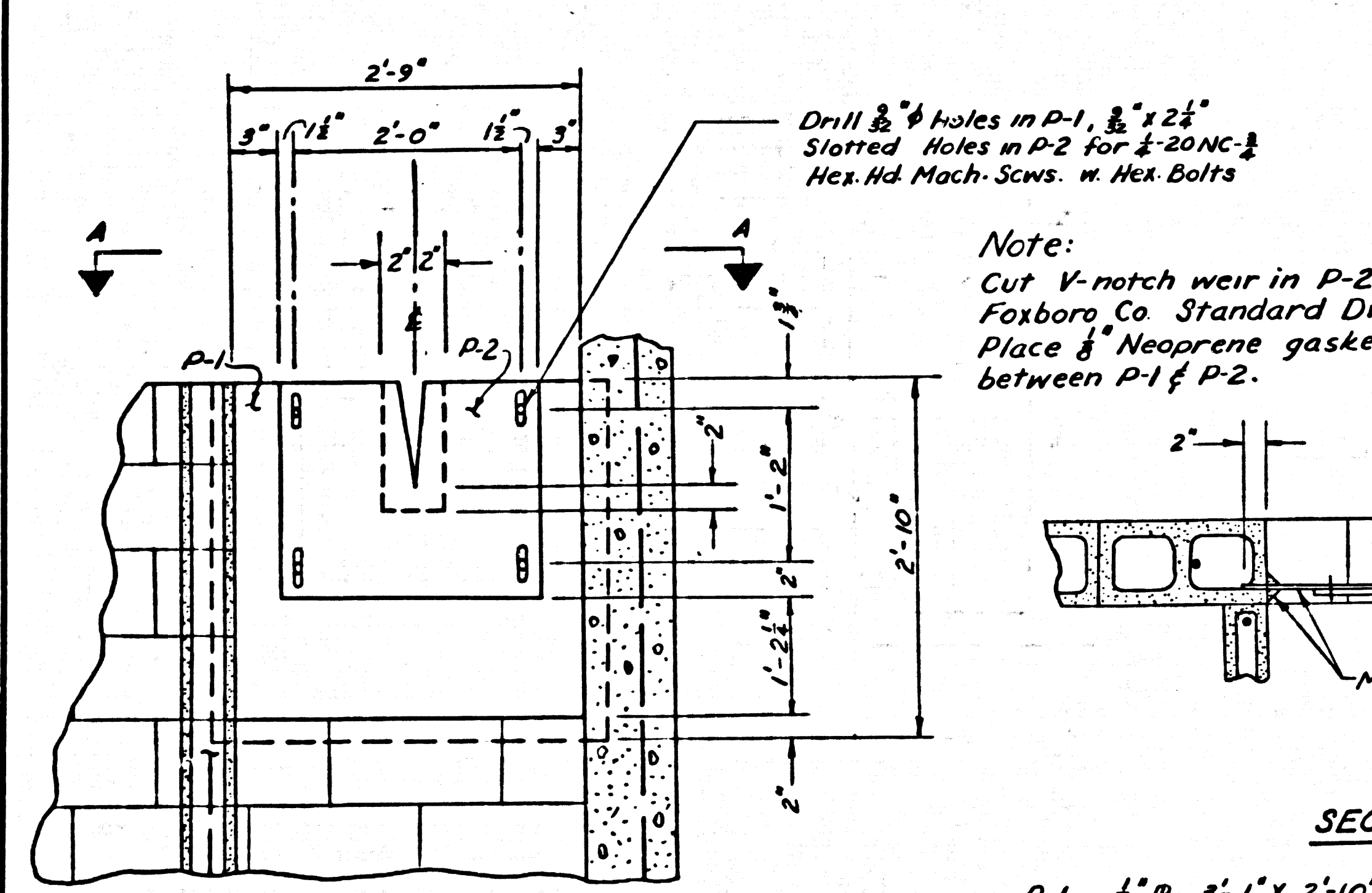


SECTION E
SCALE: 1/2" = 1'-0"

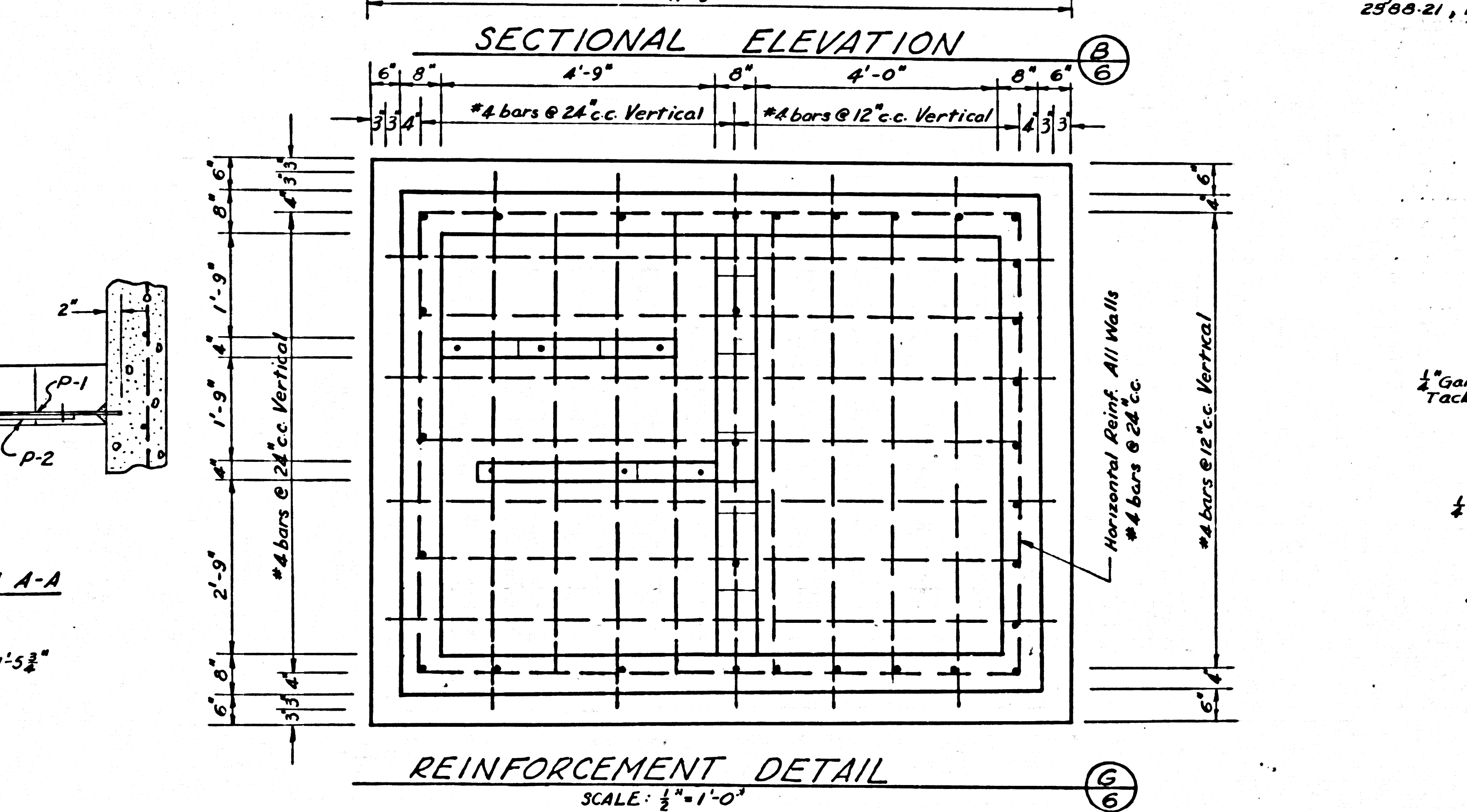


SECTIONAL ELEVATION
SCALE: 1/2" = 1'-0"

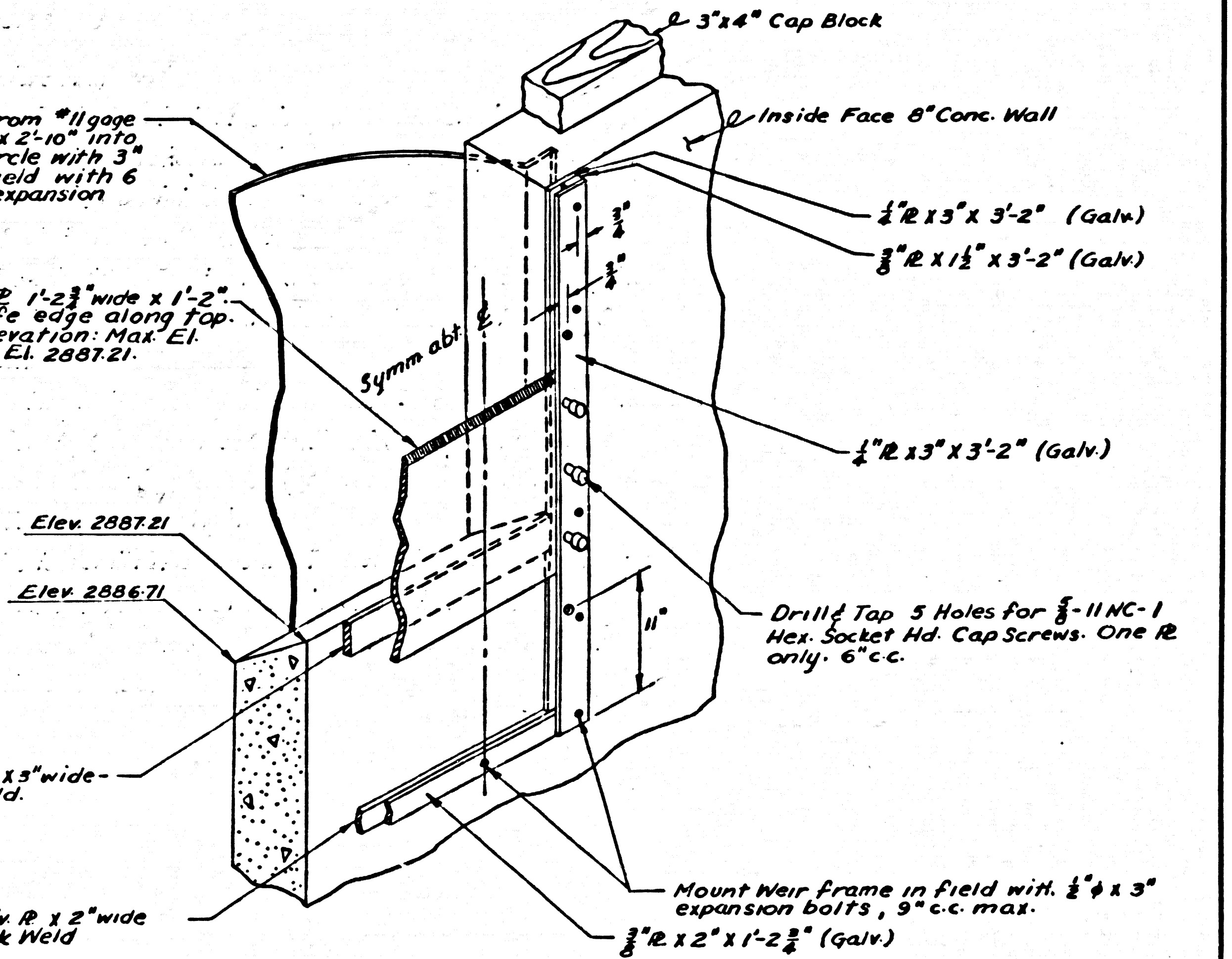
- General Notes**
- Steel Reinforcement
 - Beam blocks shall be used to carry horizontal steel.
 - Lap bars 12" minimum at all splices.
 - Terminate vertical steel in walls 2" below top of wall.
 - Slab steel shall be #4 bars @ 12" c.c. both ways.
 - Set slab steel 3" min. clear from bottom of slab.
 - Bend alternate bars up into wall 12". Bars not bent up shall terminate 3" from exposed slab face.
 - Block walls shall be reinforced with #4 bars @ 24" c.c. both ways.
 - Fill all block cells with grout.
 - Use non-shrink grout (Embecco or equal) around pipes & wall openings to ensure water tightness.
 - Snow Shasta Gates or approved equal.



15° V-NOTCH WEIR DETAIL
SCALE: 1/2" = 1'-0"

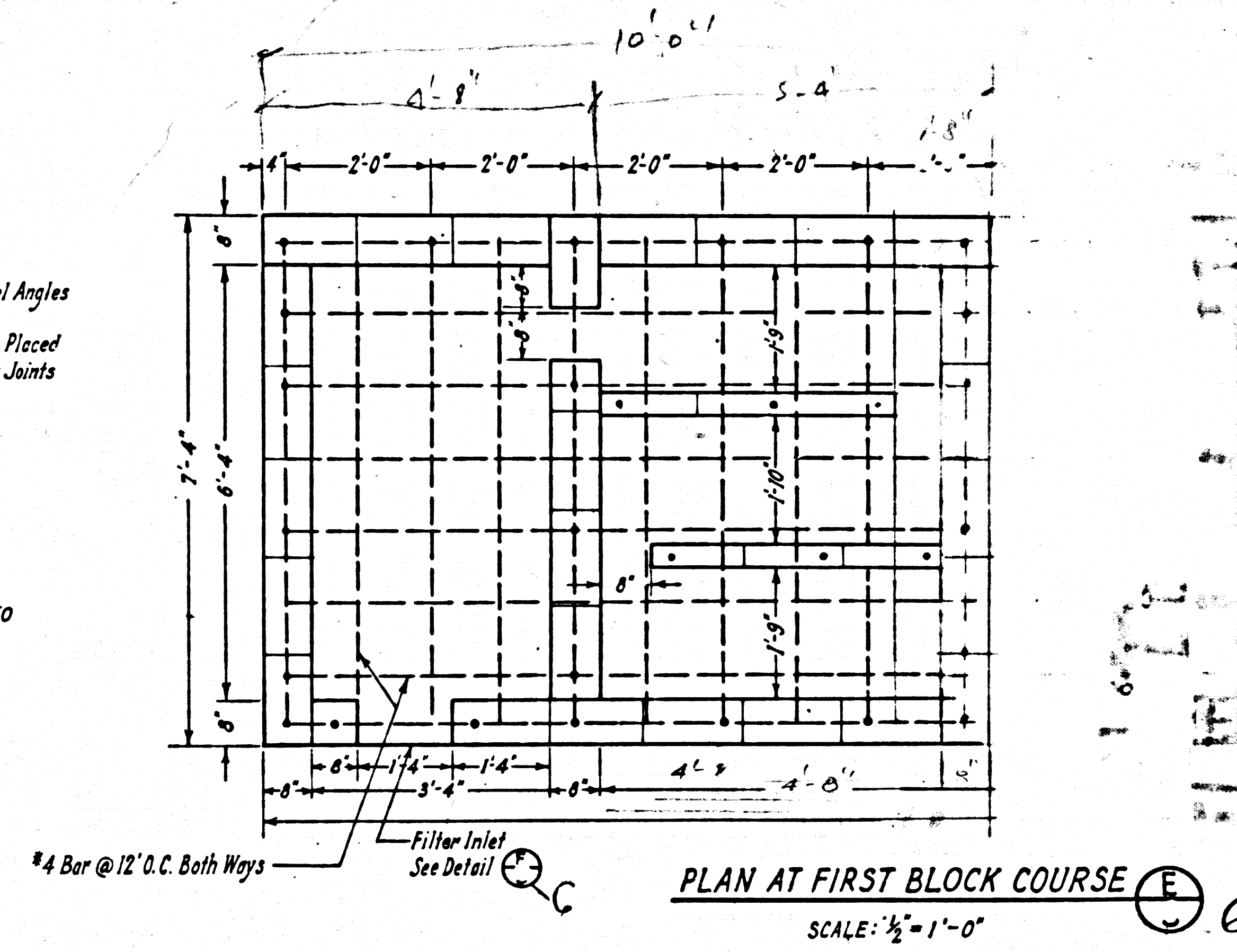
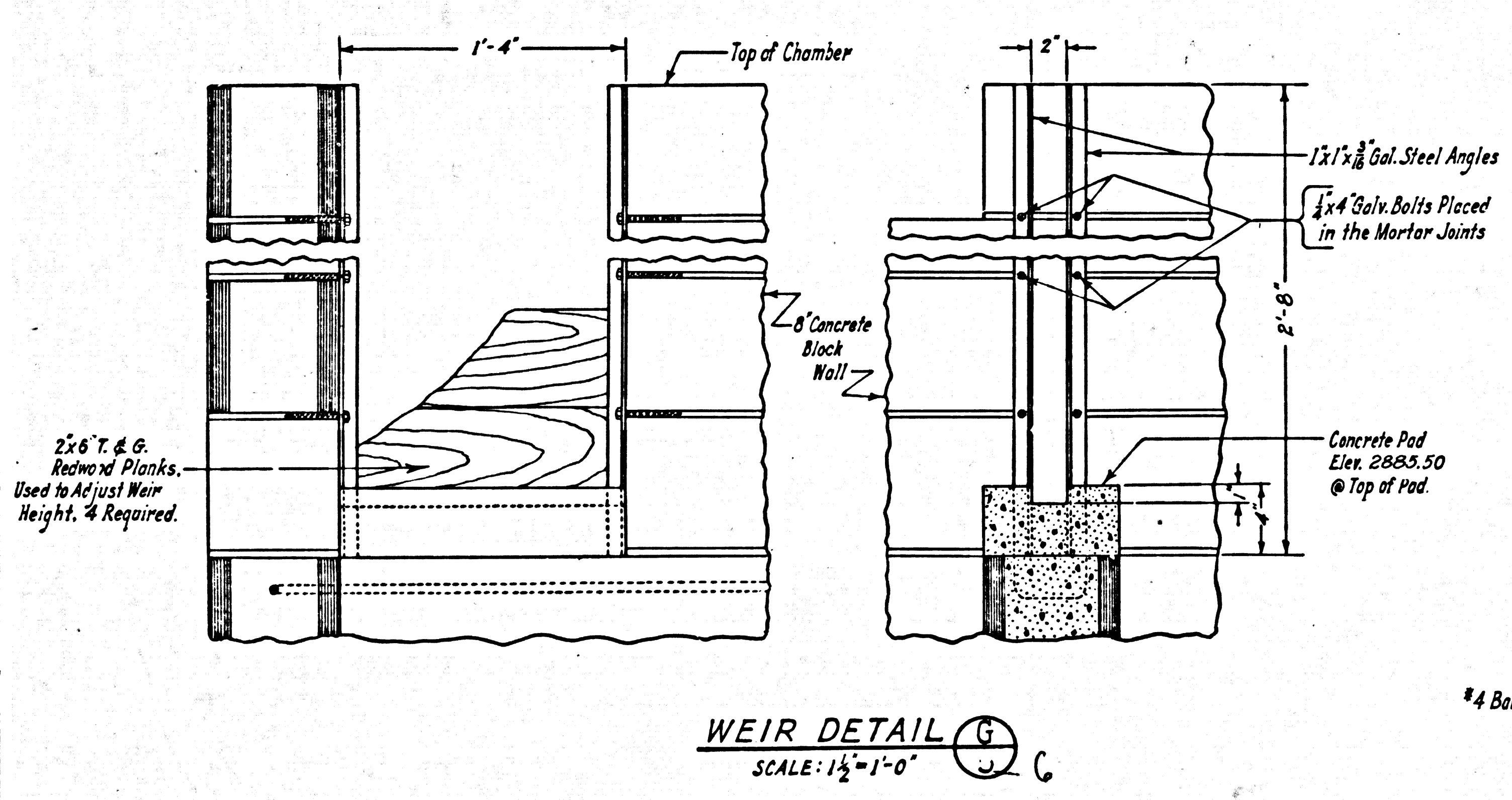
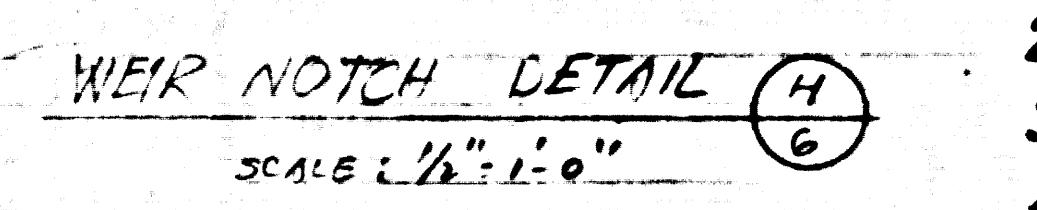
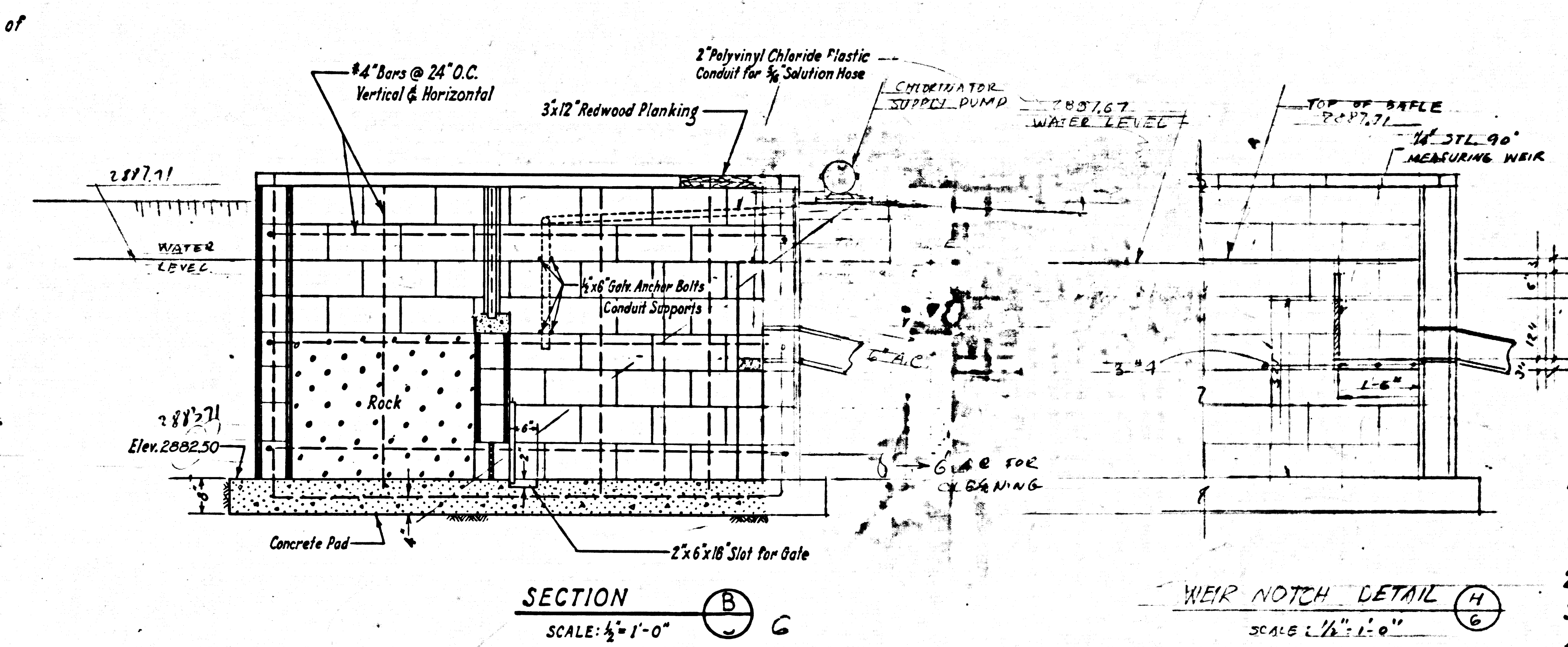
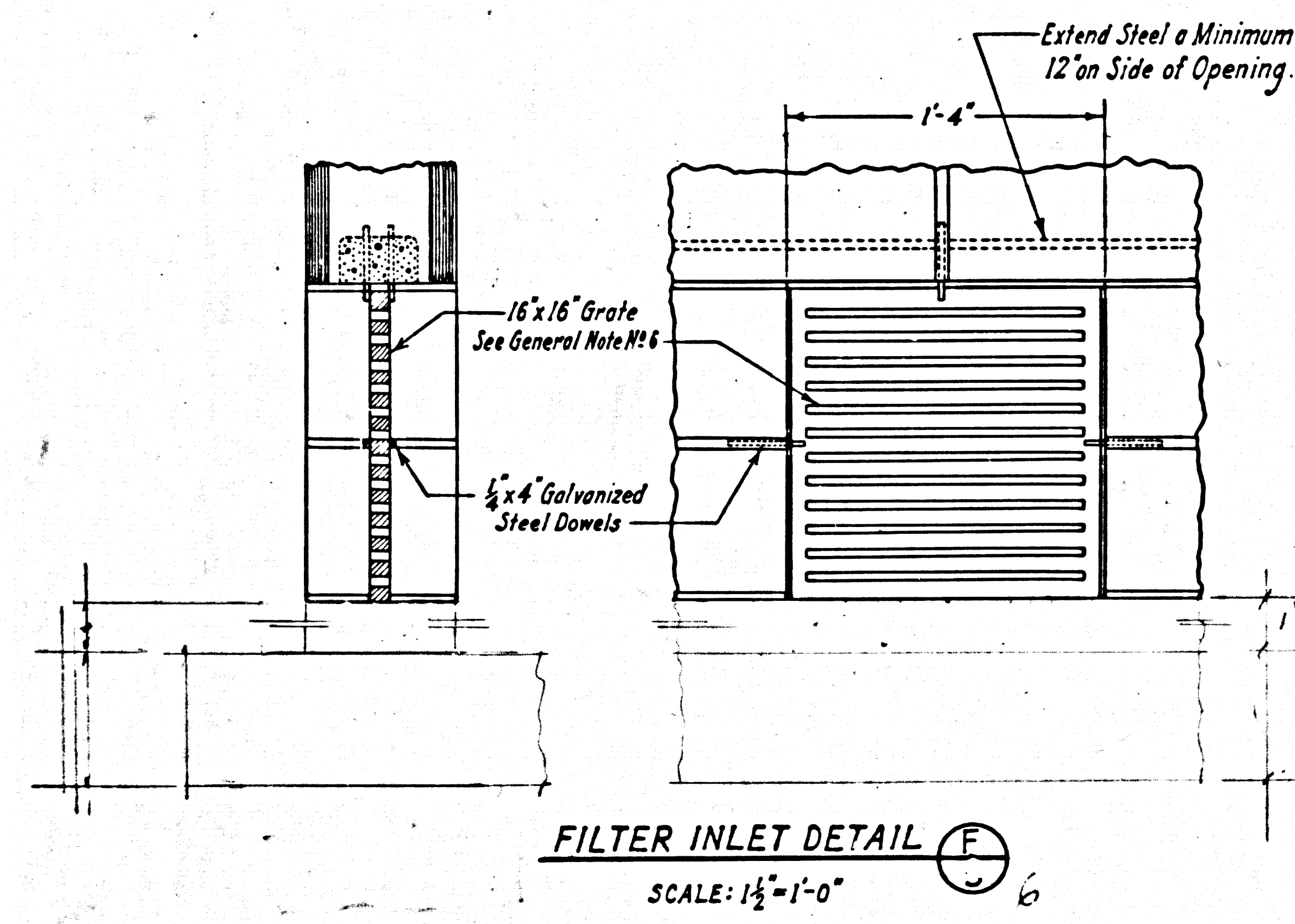
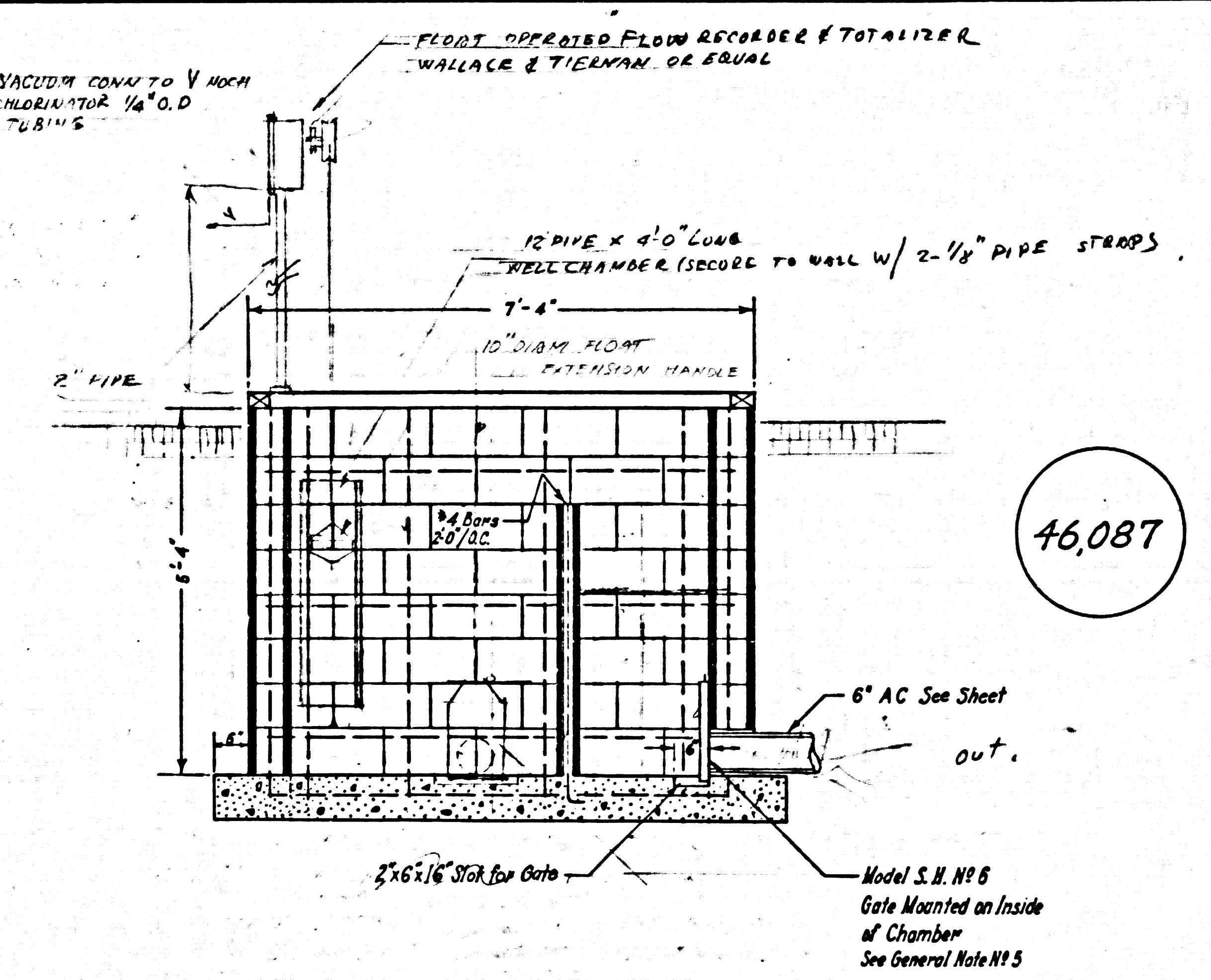
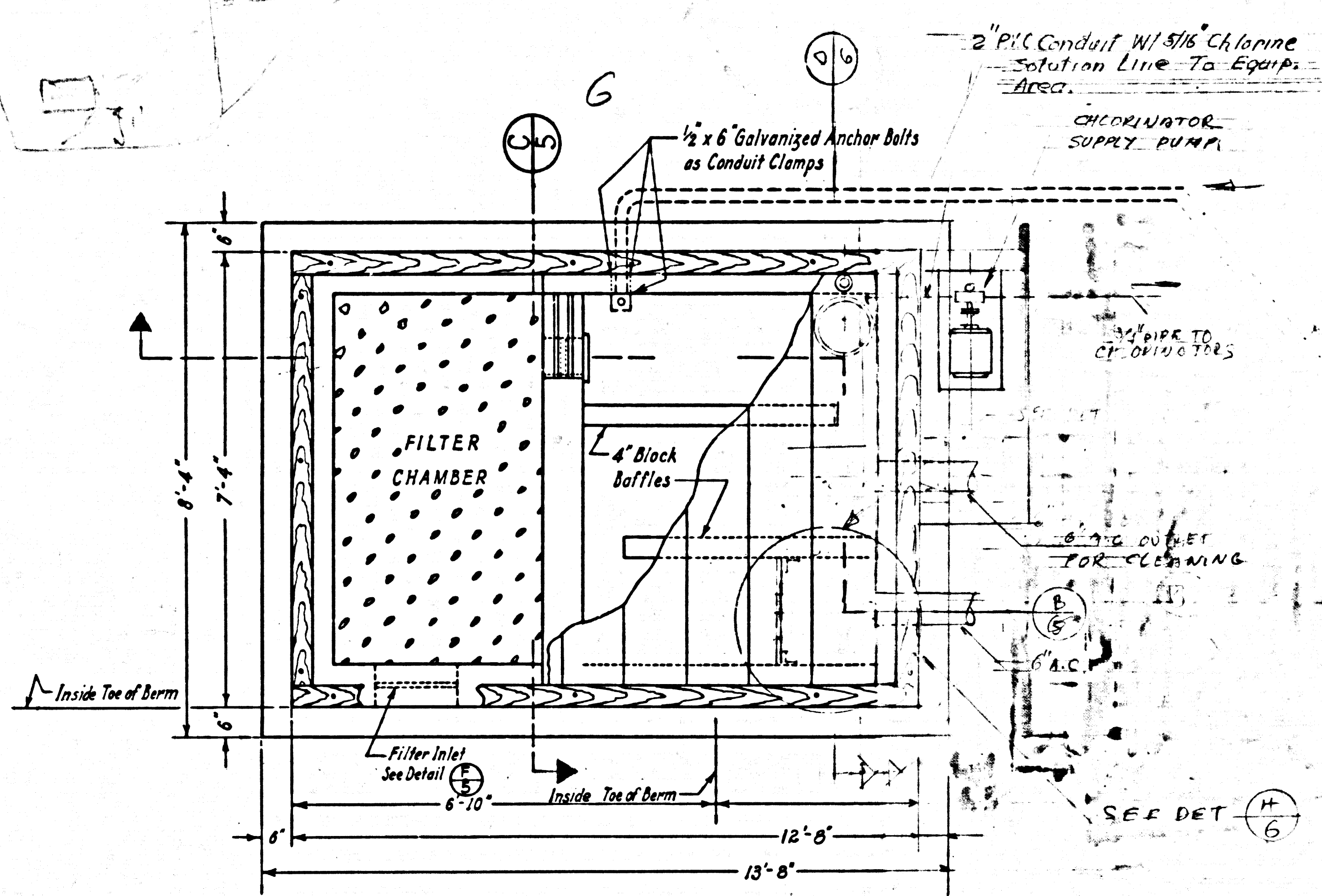
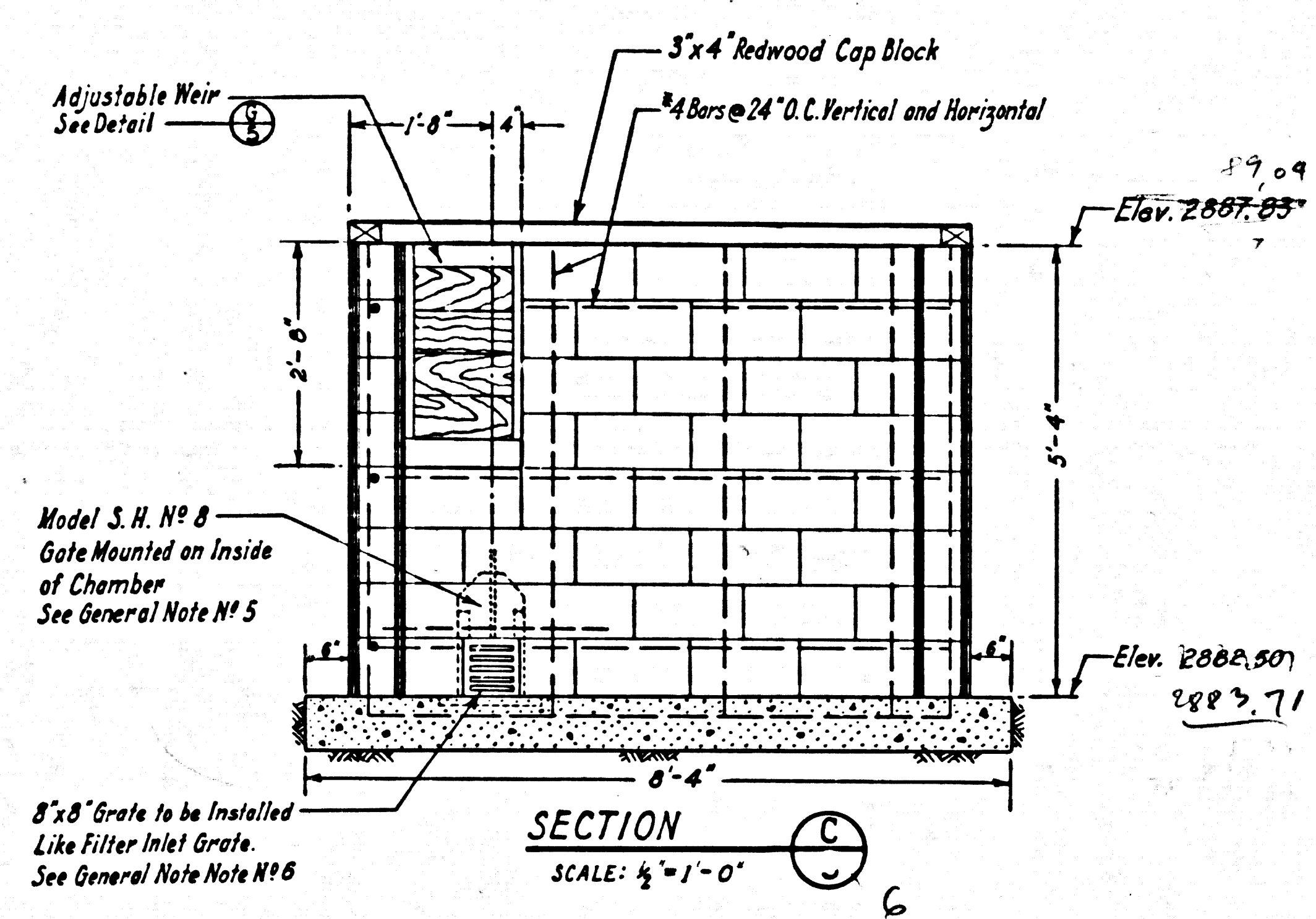


REINFORCEMENT DETAIL
SCALE: 1/2" = 1'-0"



INLET WEIR AND BAFFLE DETAIL
SCALE: 1/2" = 1'-0"

CHLORINE CONTACT CHAMBER		
P.C. 6891	CAP. PROJ. 9609-07	
DESIGNED: O. Bradovitch	TRACED: Faust	CHECKED: T. Howard
SCALE: As Shown	DATE: NOV. 1964	SHEET 6 OF 12 SHEETS

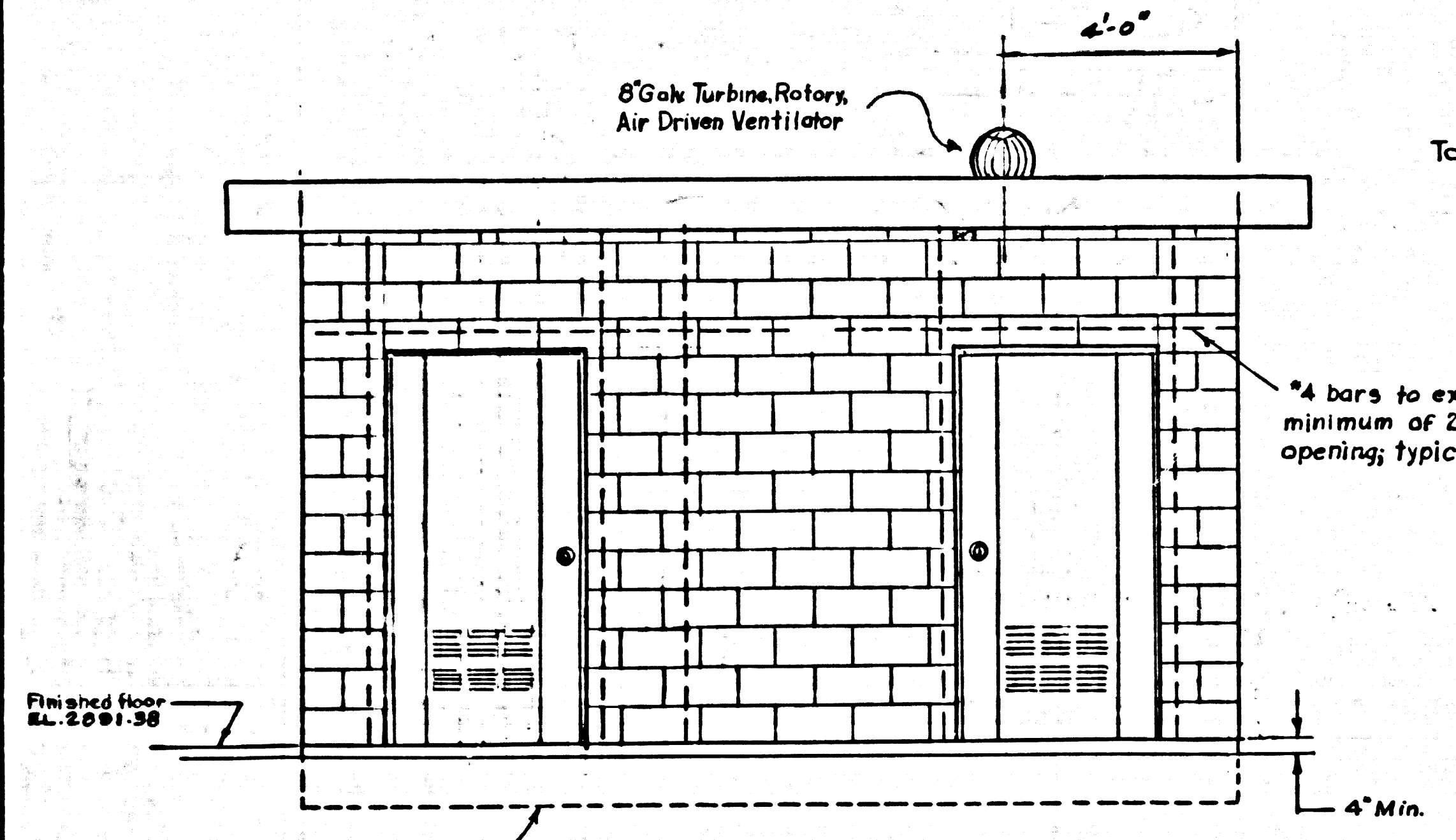


- SLAB NOTES:**
- #4 Bars 12" a.c. Both Ways
 - Set Steel in Slab With Short Steel 3" From Bottom.
 - Bend Alternate Bars Up Into Wall a Minimum of 12"
 - Alternate Bars That Are Not Bent Up Will Terminate 3" From Exterior Edge of Slab.

- GENERAL NOTES:**
- Steel Reinforcement.
 - A. Beam Blocks Shall Be Used To Carry Horizontal Steel.
 - B. Where Splicing Is Required, The Bars Will Be Lapped A Minimum Of 12".
 - All Dimensions Given On This Sheet Are Modular.
 - All Cells Shall Be Filled With Grout.
 - With The Exception Of The First Block Course, The Beam Blocks And The Top Block Course Shall Be Laid Over Strips Of Metal Lath. Do Not Place Metal Lath Over Cells Containing Vertical Steel.
 - Snow Shasta Gate, Or Approved Equal; Provide Only One Extension Handle For All Gates.
 - Alhambra Foundry Galvanized Iron Grate No. A-2010 Or Approved Equal.
 - The Filter Material Shall Be Crushed Stone, Rock Spalls Or Similar And Shall Range In Size From 1 to 2 1/2 Inches.
 - Use Non-shrink Grout (Embecco Or Approved Equal) Around Pipes In Wall Openings To Insure Water Tightness.
 - Inside Of Structure Shall Be Plastered With Two Coats Of Cement Plaster Aggregating One Inch In Thickness And Must Be Watertight. (Set Gates After Plastering)
 - Inside & Outside Of Structure, Including Bottom But Excluding Top Of Last Course Shall Be Coated With One Coat Of Bitumastic.

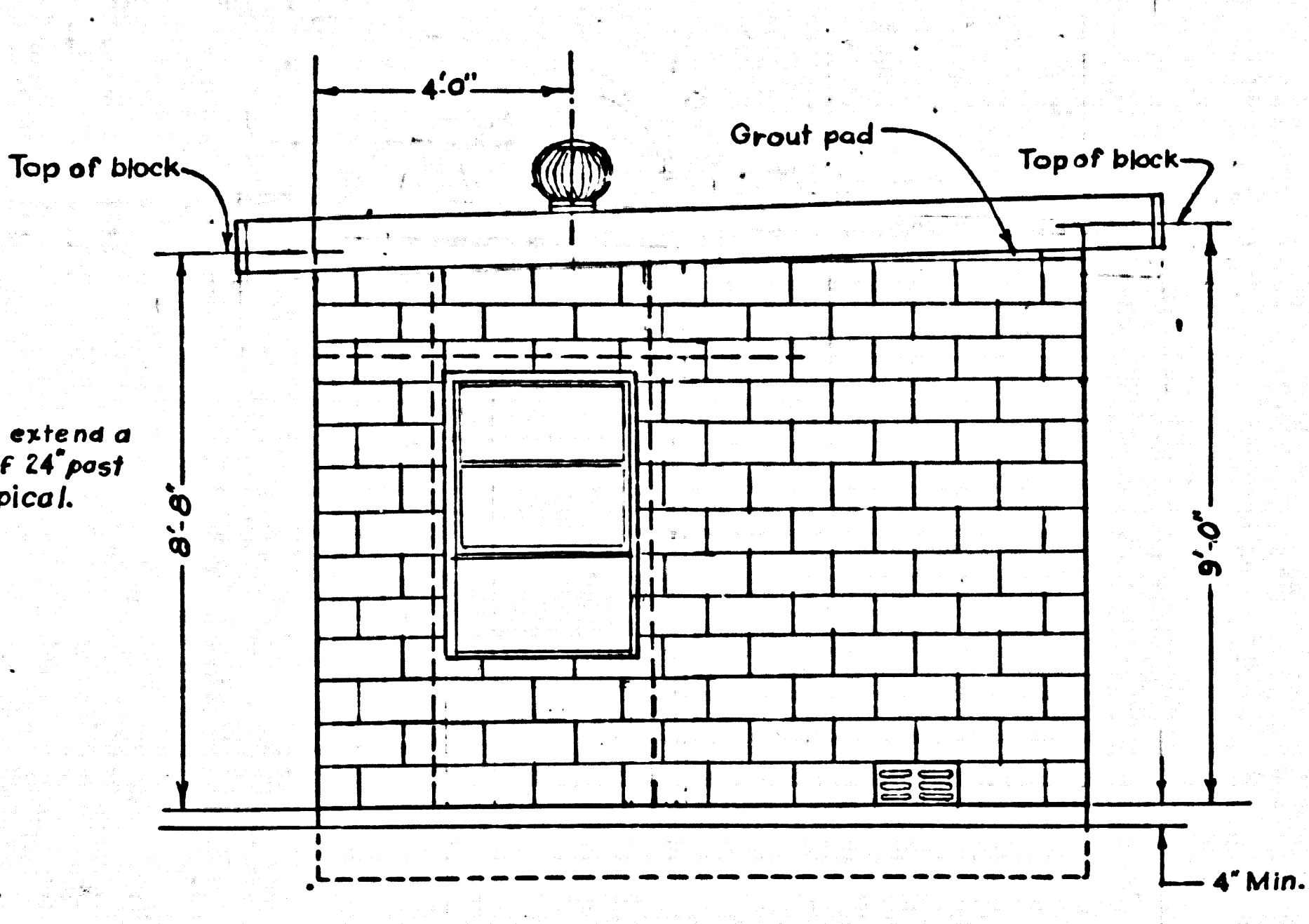
CHLORINE CONTACT CHAMBER		
P.C. 6891	CAP. PROJ. 9609.07	
DESIGNED: SATERMO	TRACED:	CHECKED:
SCALE: AS SHOWN	DATE:	SHEET 6 A OF 12 SHEETS

TRIM LINE P.C. 6891 CAP. PROJ. 9609.07

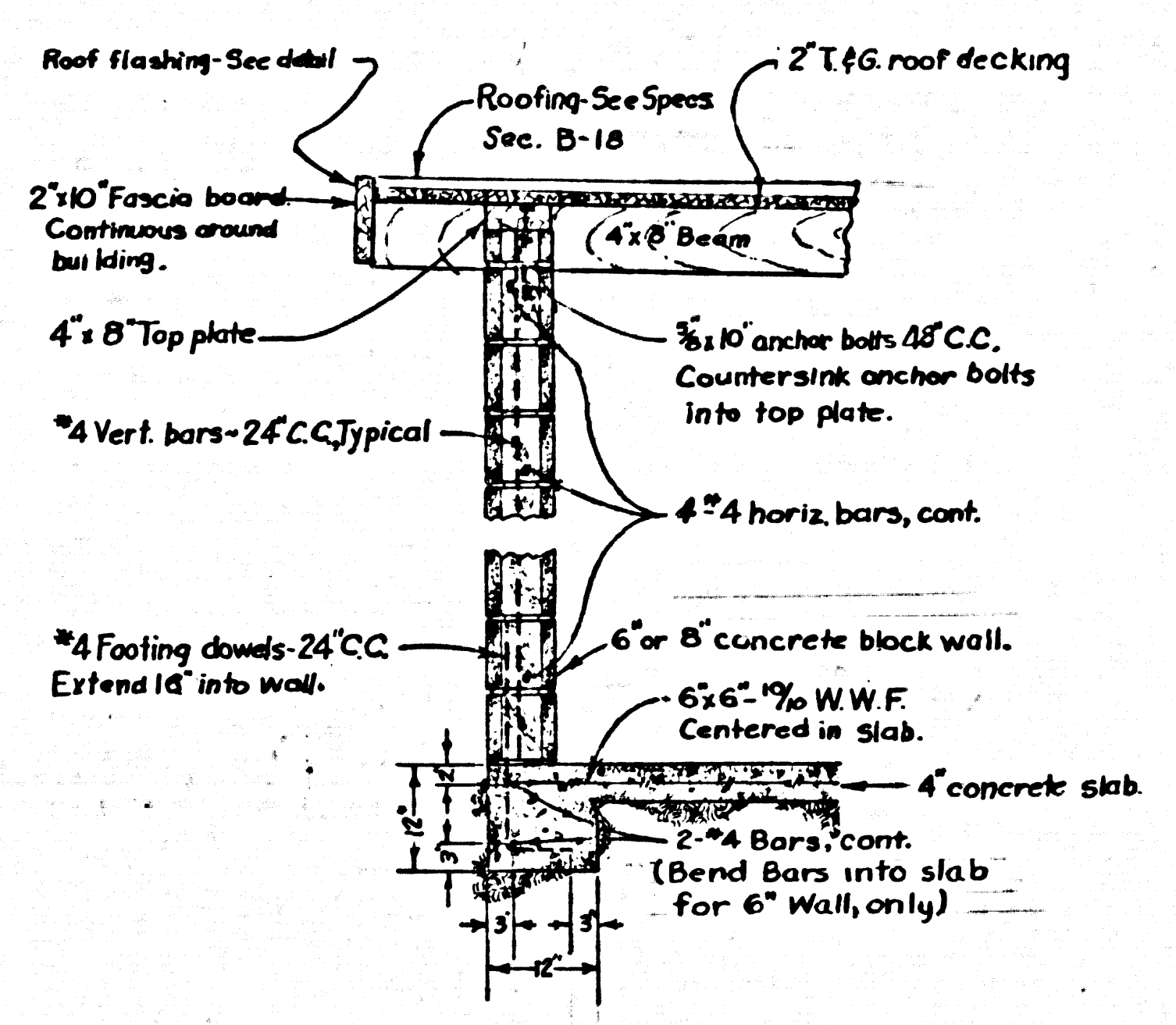


SOUTH ELEVATION
SCALE: 1" = 3'-0"

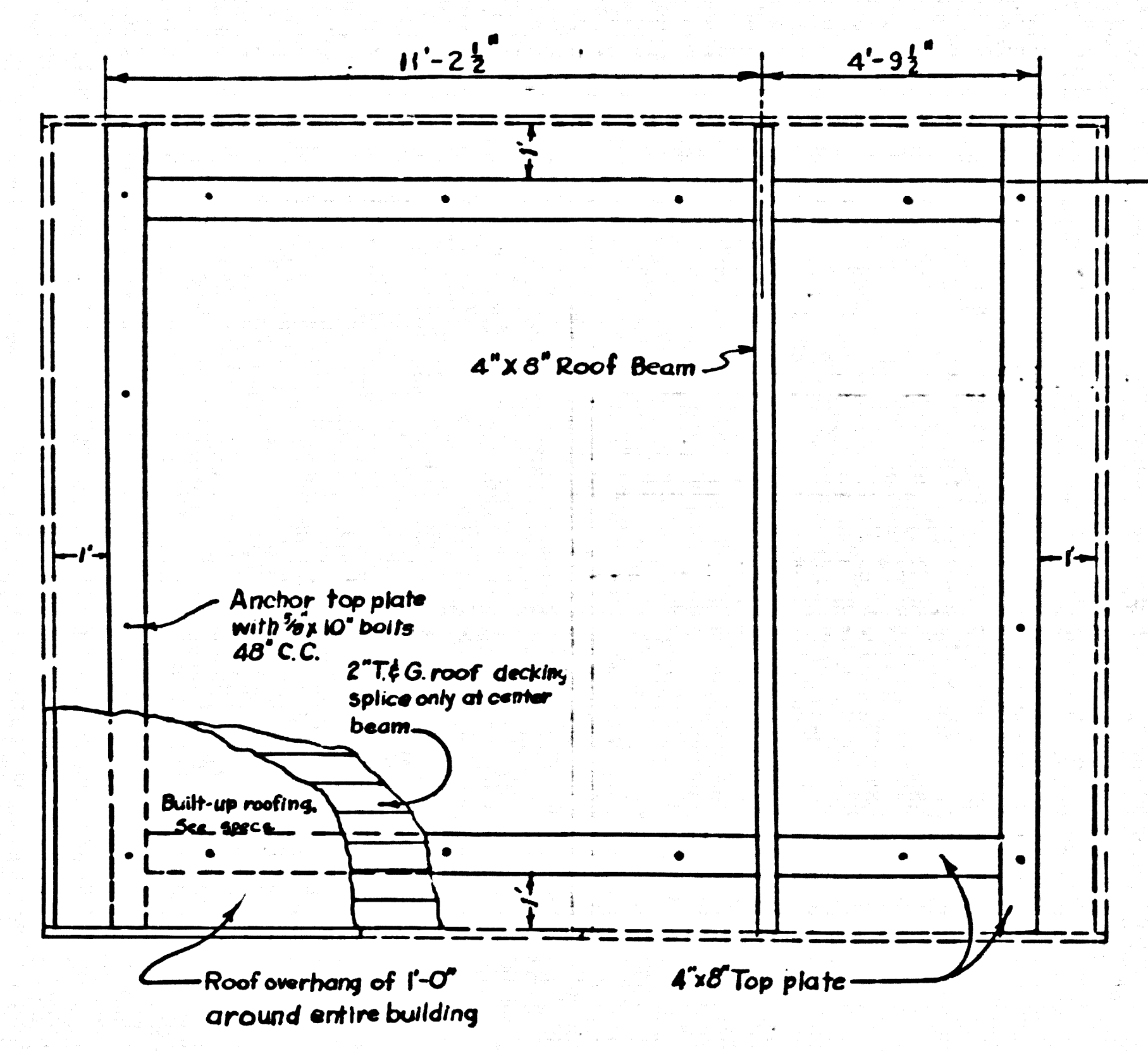
Bottom of foundation:
A minimum of 12" below natural grade
or finish grade, whichever is lowest.



EAST ELEVATION
SCALE: 1" = 3'-0"

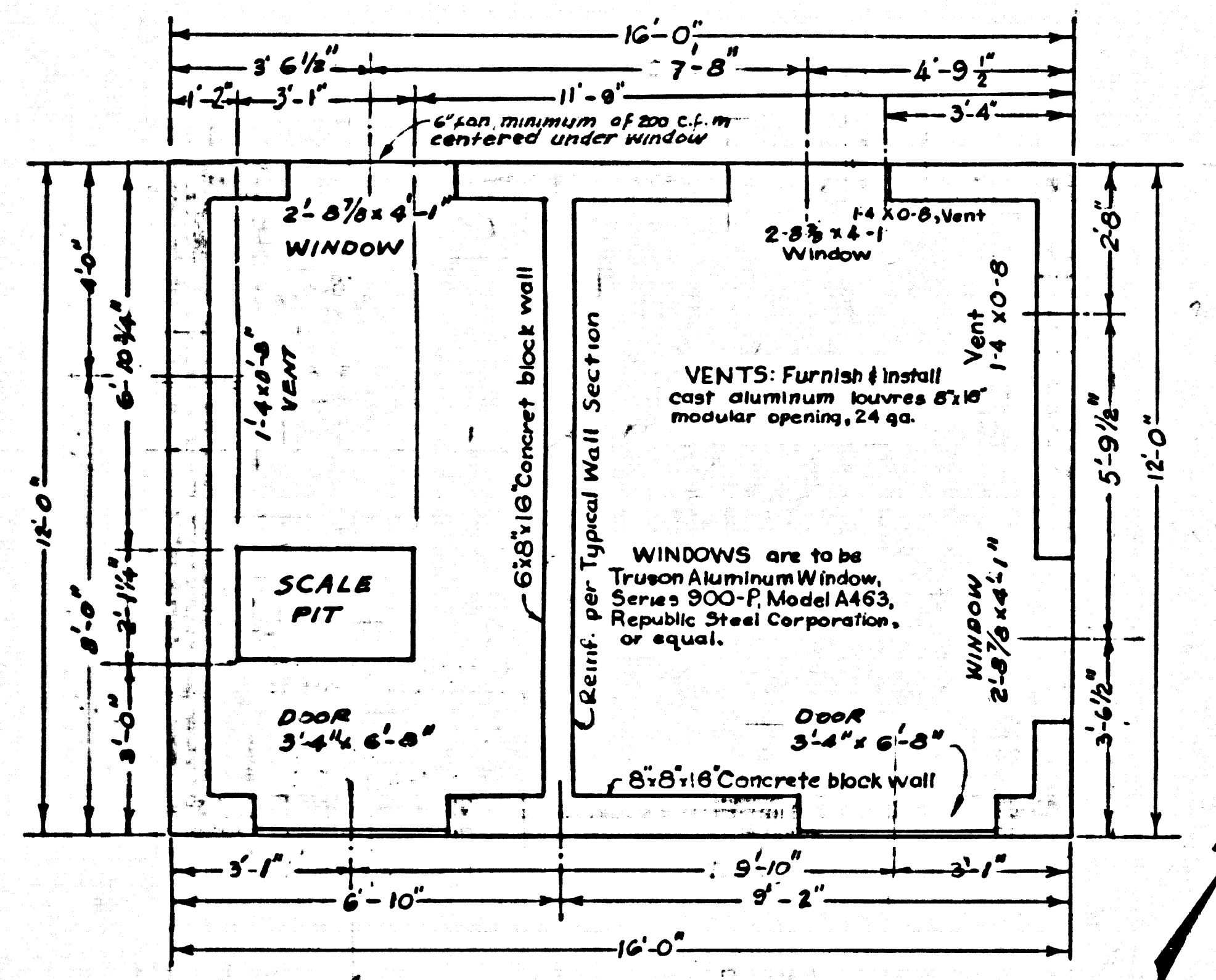


WALL SECTION (TYPICAL)
SCALE: 1" = 2'-0"

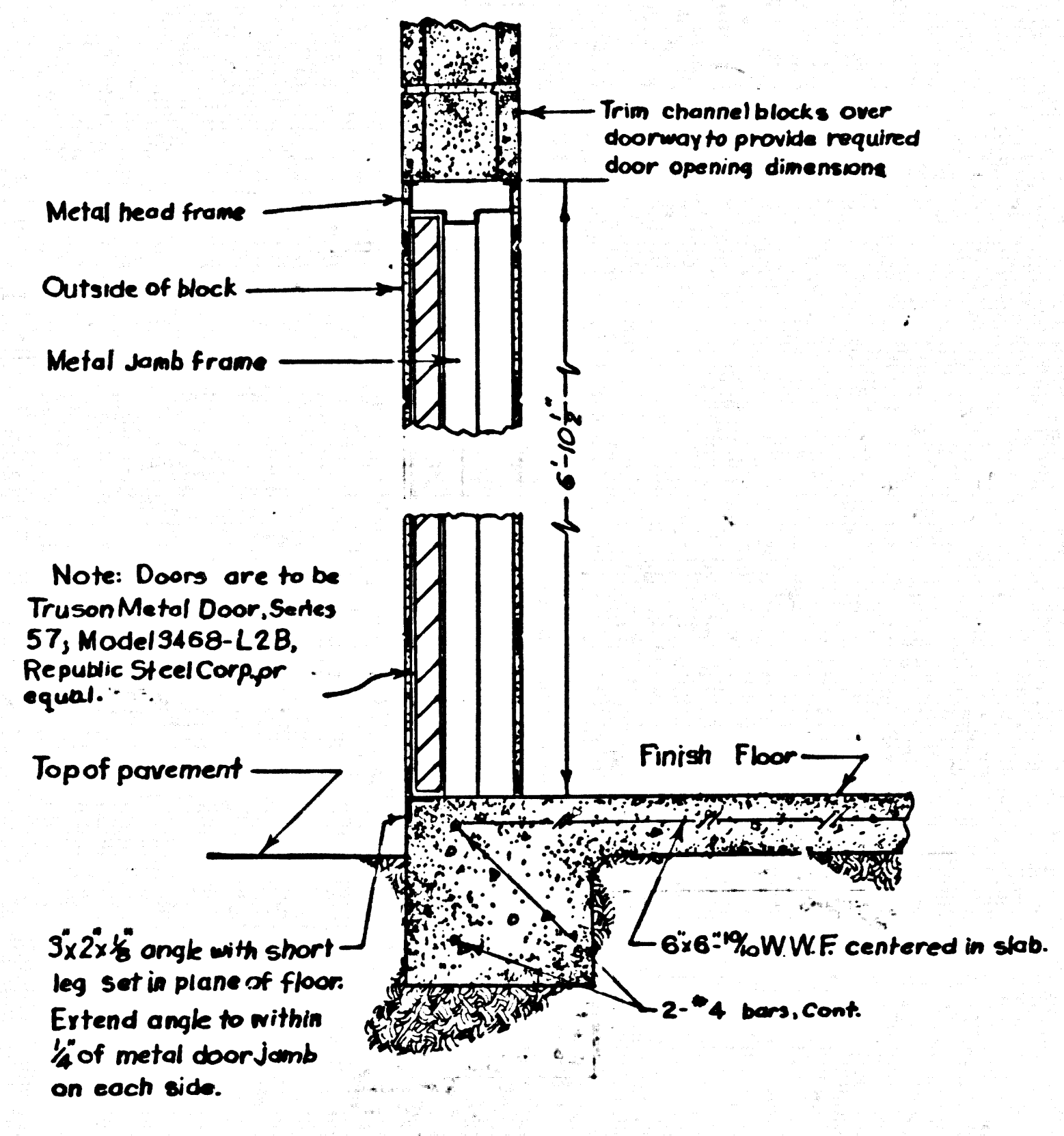


ROOF PLAN
SCALE: 1" = 3'-0"

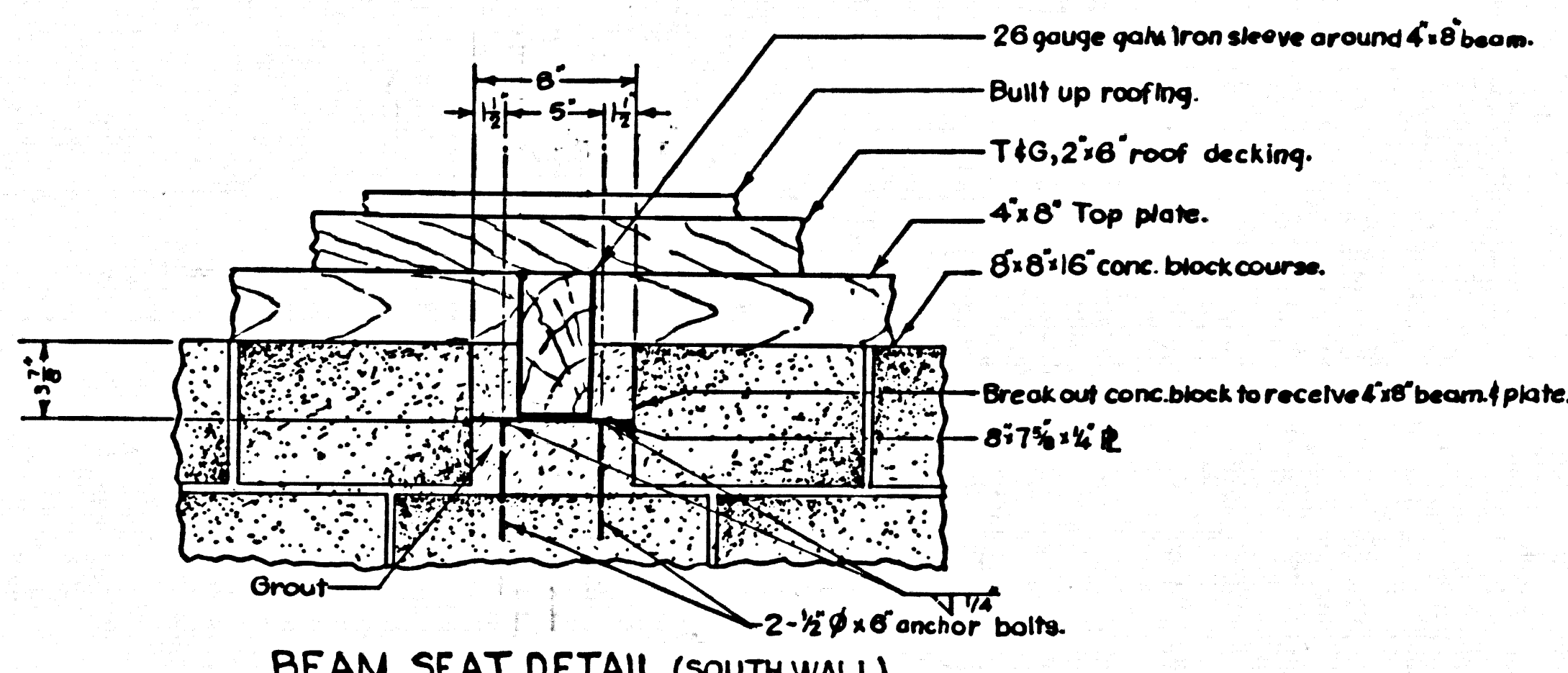
46,088



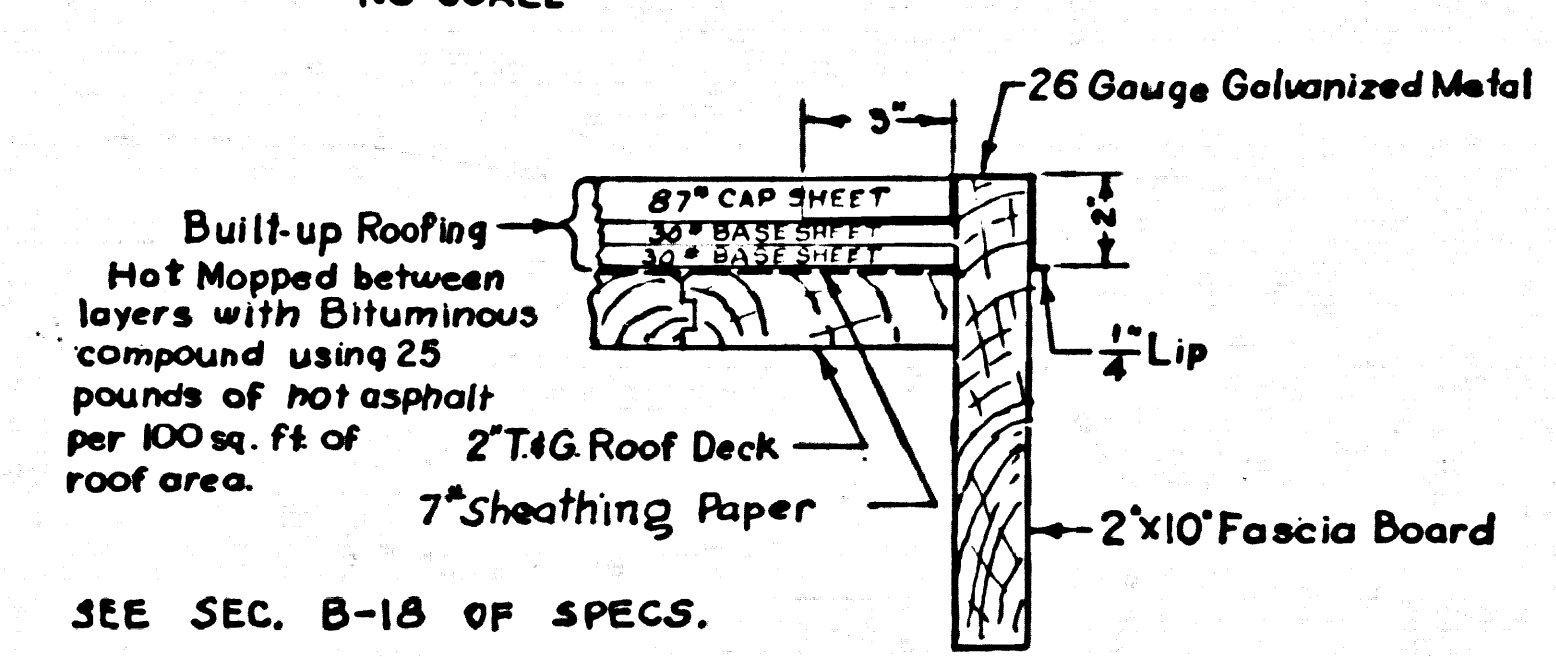
FLOOR PLAN
SCALE: 1" = 3'-0"



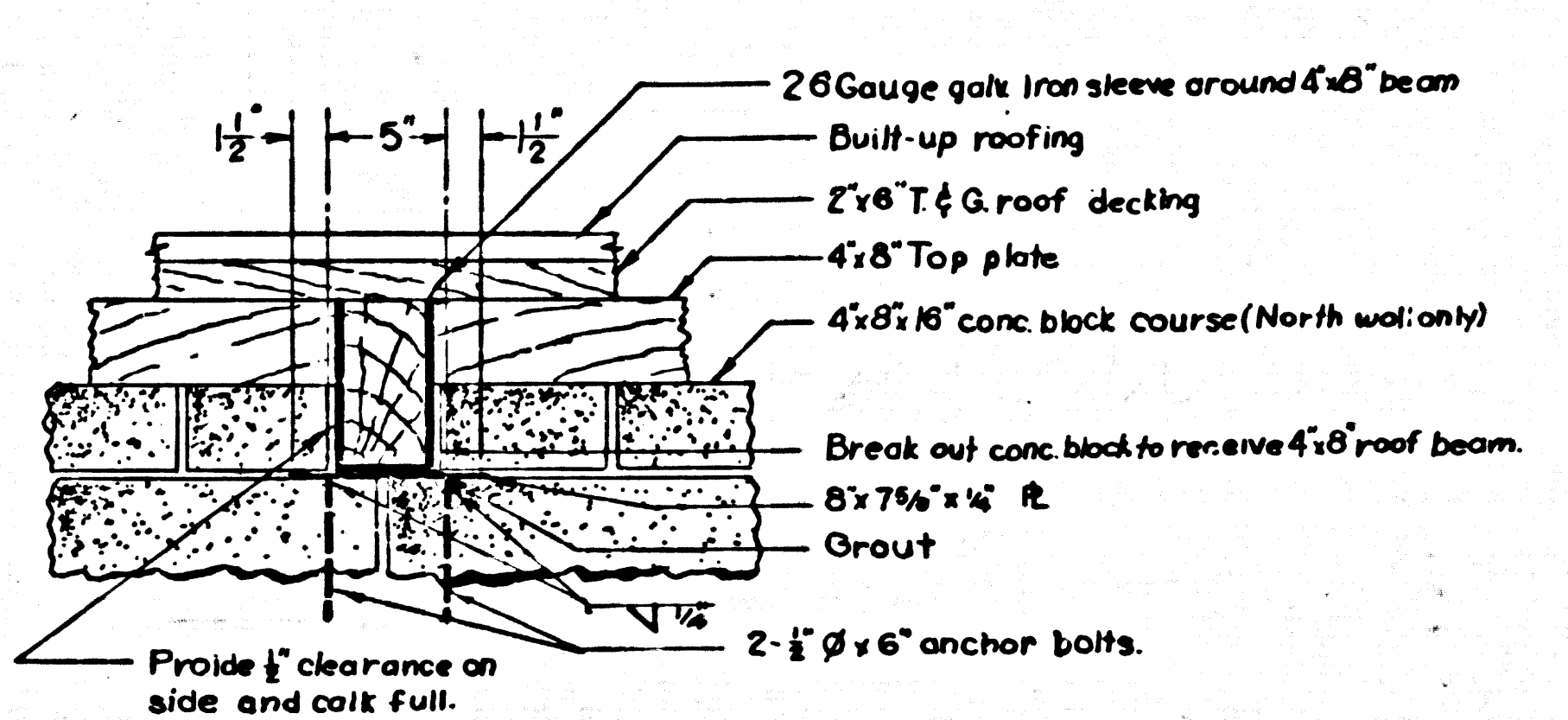
DOOR OPENING DETAIL
SCALE: 1" = 4'-0"



BEAM SEAT DETAIL (SOUTH WALL)
NO SCALE



ROOF FLASHING DETAIL
NO SCALE

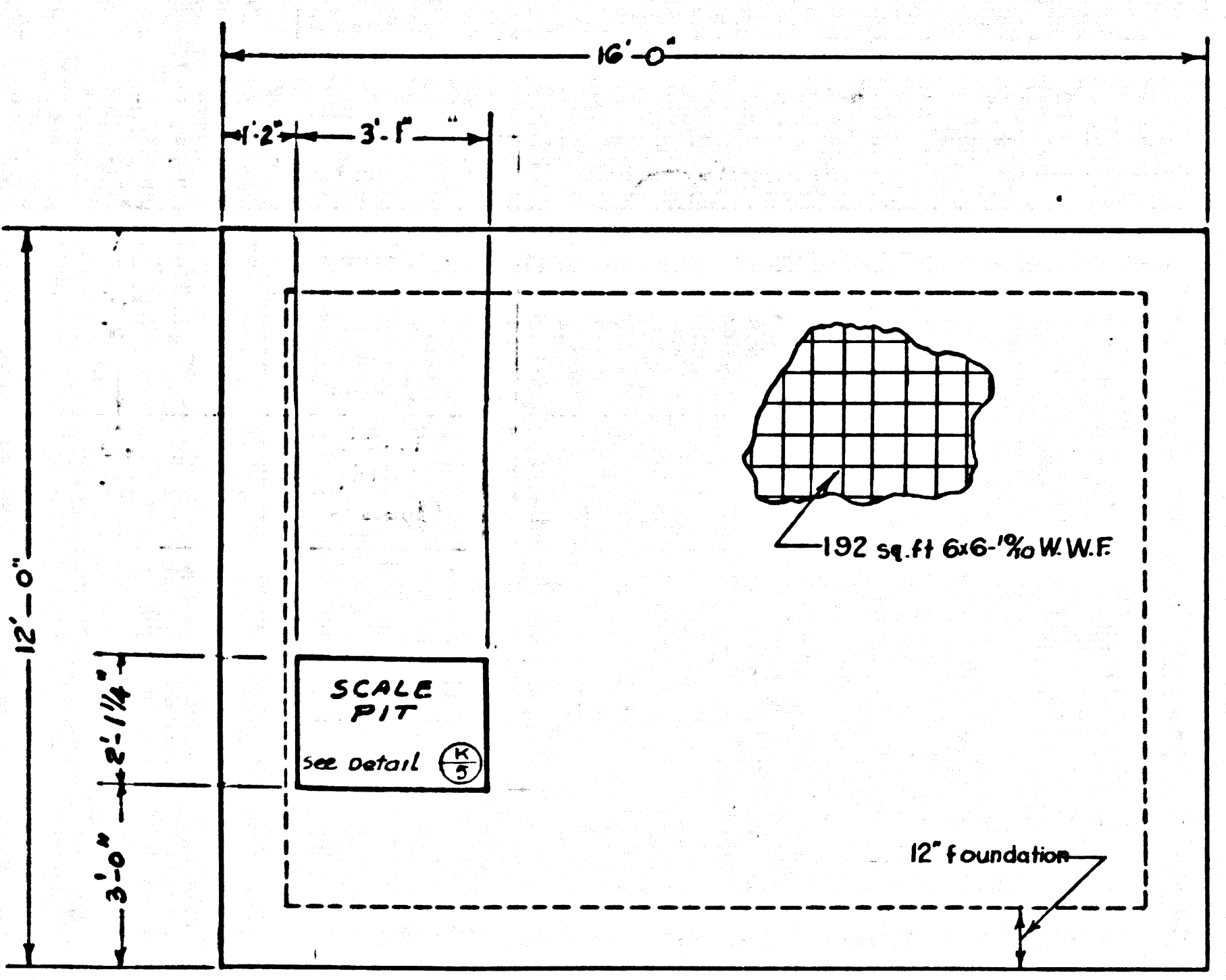


BEAM SEAT DETAIL (NORTH WALL)
NO SCALE

GENERAL NOTES:

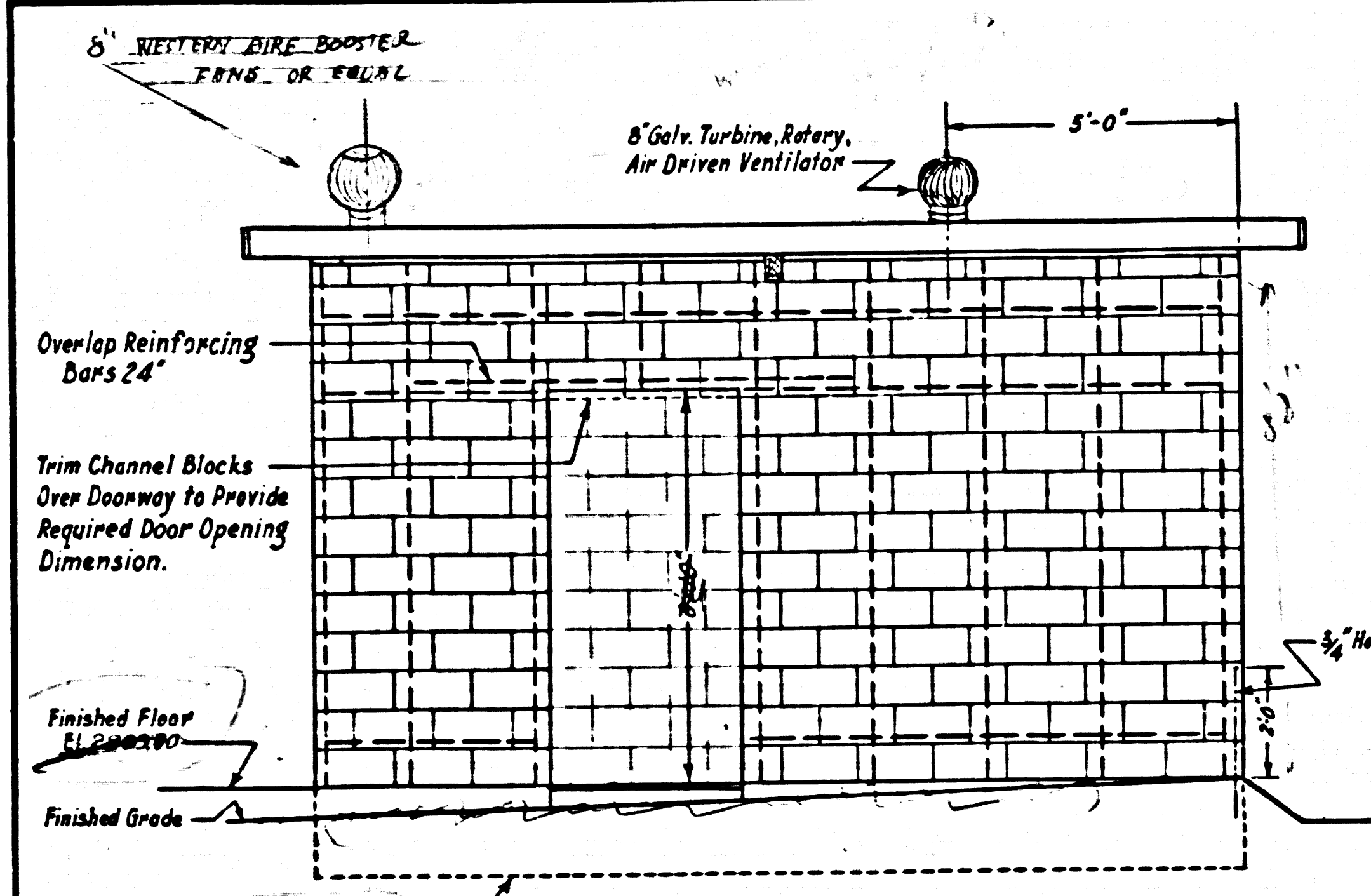
- All cells containing vertical steel will be filled with grout.
- When grout pour exceeds 4 feet in height an inspection hole is to be placed at the bottom of every cell containing a vertical reinforcing bar. Mortar droppings are to be cleaned out of this cell before steel is placed.
- Cells must not be filled before they have been inspected.
- Vertical steel must be in place at the time of inspection.
- Grouting must not be done through the bond beam seal.
- Cells containing embedded bolts shall be grouted full for a distance of 4 inches above and 4 inches below the bolt.
- Beam blocks will be used to carry horizontal steel, except over doorways where channel blocks will be used.
- The beam blocks will be laid over strips of metal lath. Do not place metal lath over cells that are to be grouted.
- Where splicing of reinforcing bars is required, the bars will be lapped a minimum of 15 inches.
- Lumber will be Douglas Fir Construction Grade.

Structural welding shall be performed in a licensed fabricator's shop.

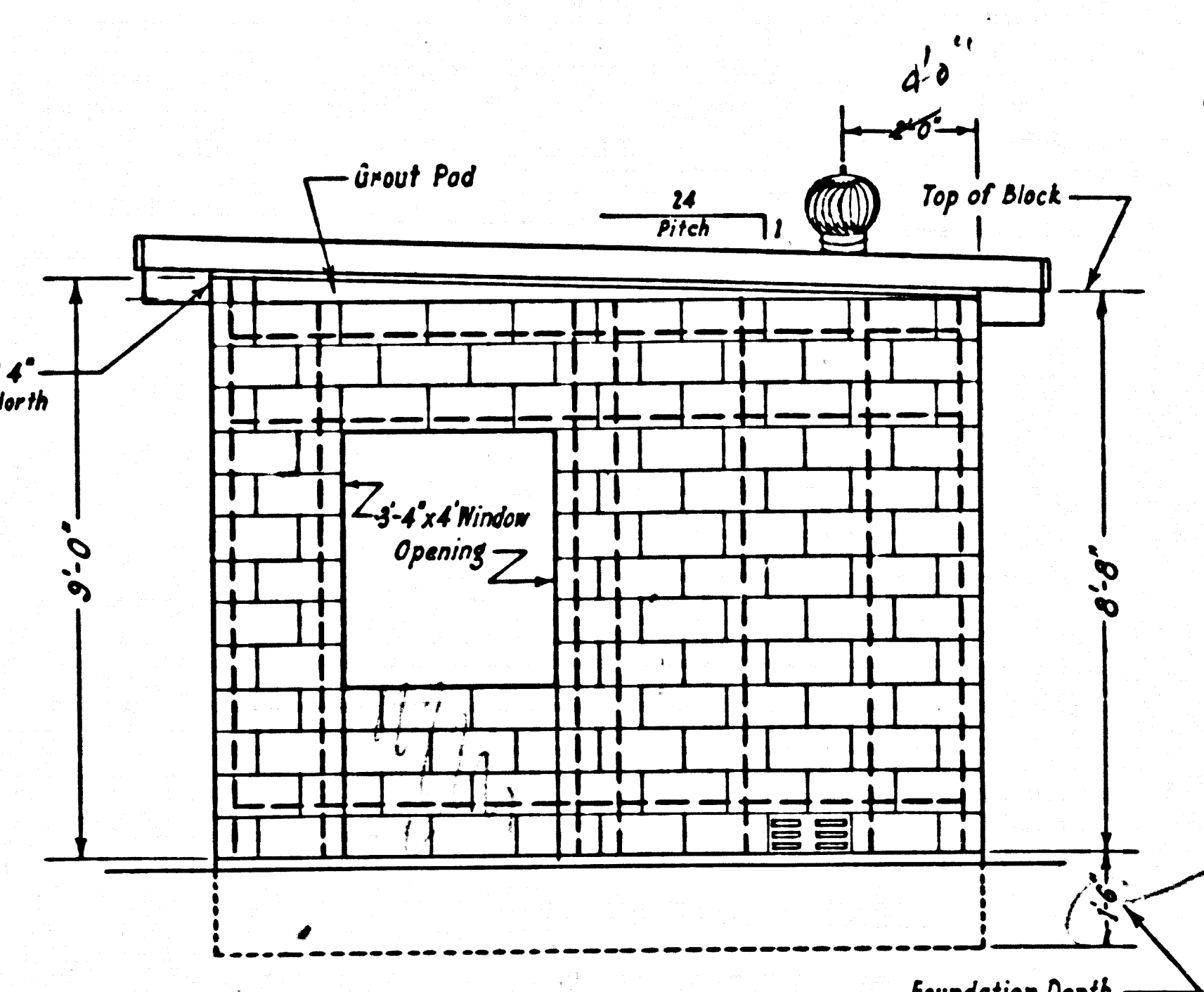


FOUNDATION PLAN
SCALE: 1" = 3'-0"

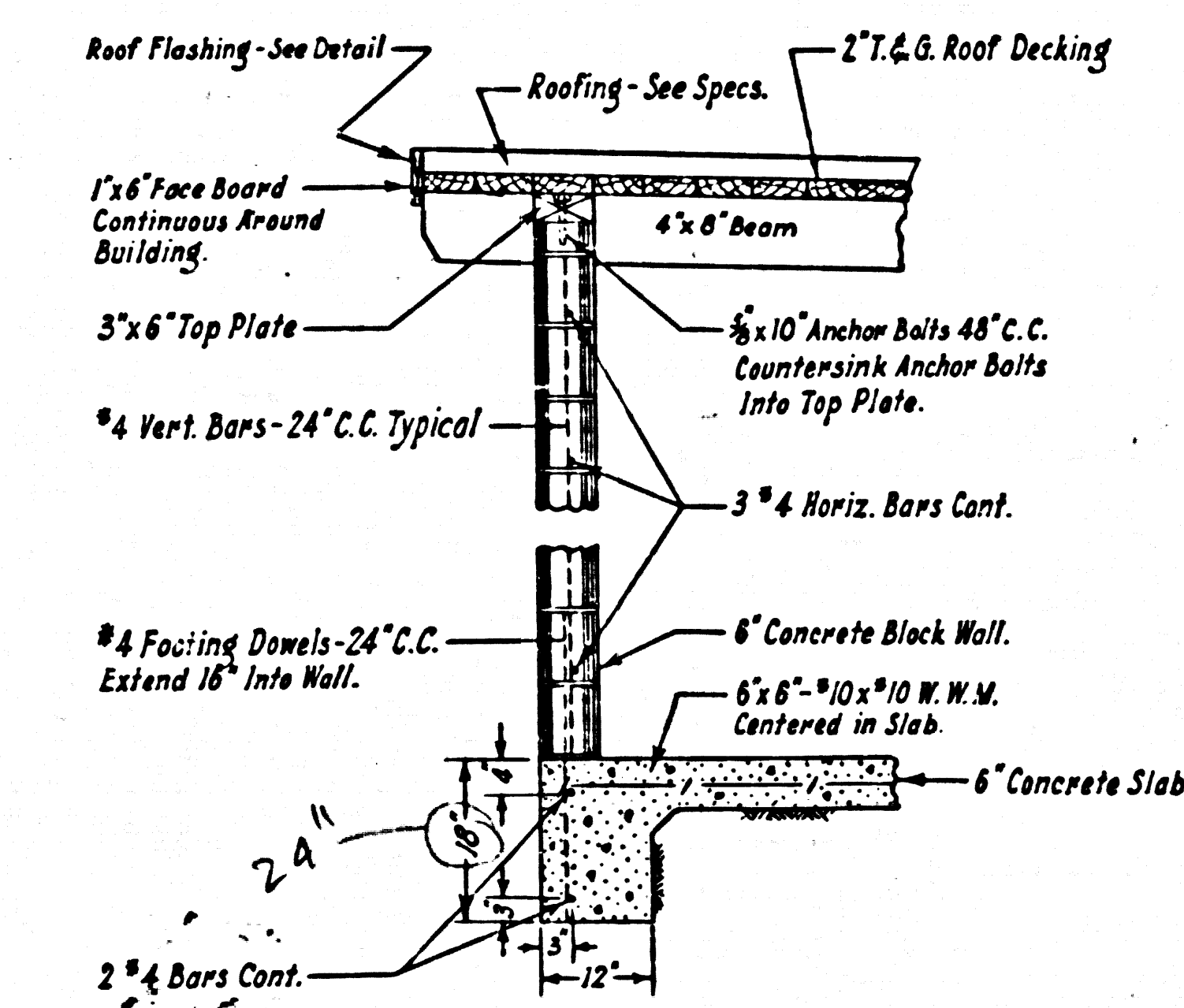
EQUIPMENT BUILDING		
PC. 6891	CAP PROJ. 9609.07	
DESIGNED: M. OBRADOVITCH	TRACED: P. SHIPLEY	CHECKED: T. HOWARD
SCALE: AS SHOWN	DATE: 11/1964	SHEET NO. 7 OF 12 SHEETS



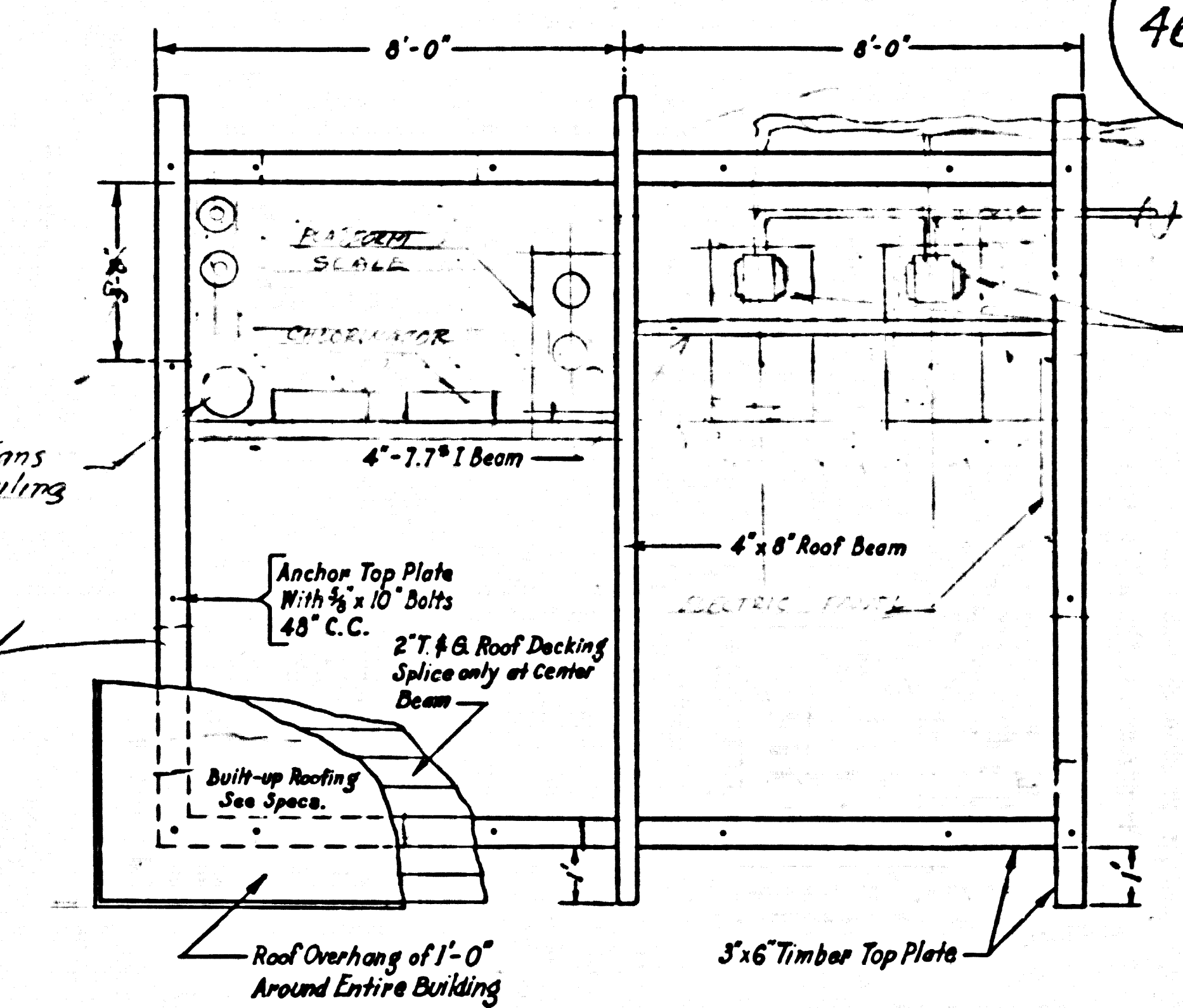
EAST ELEVATION
SCALE: 1" = 3'-0"



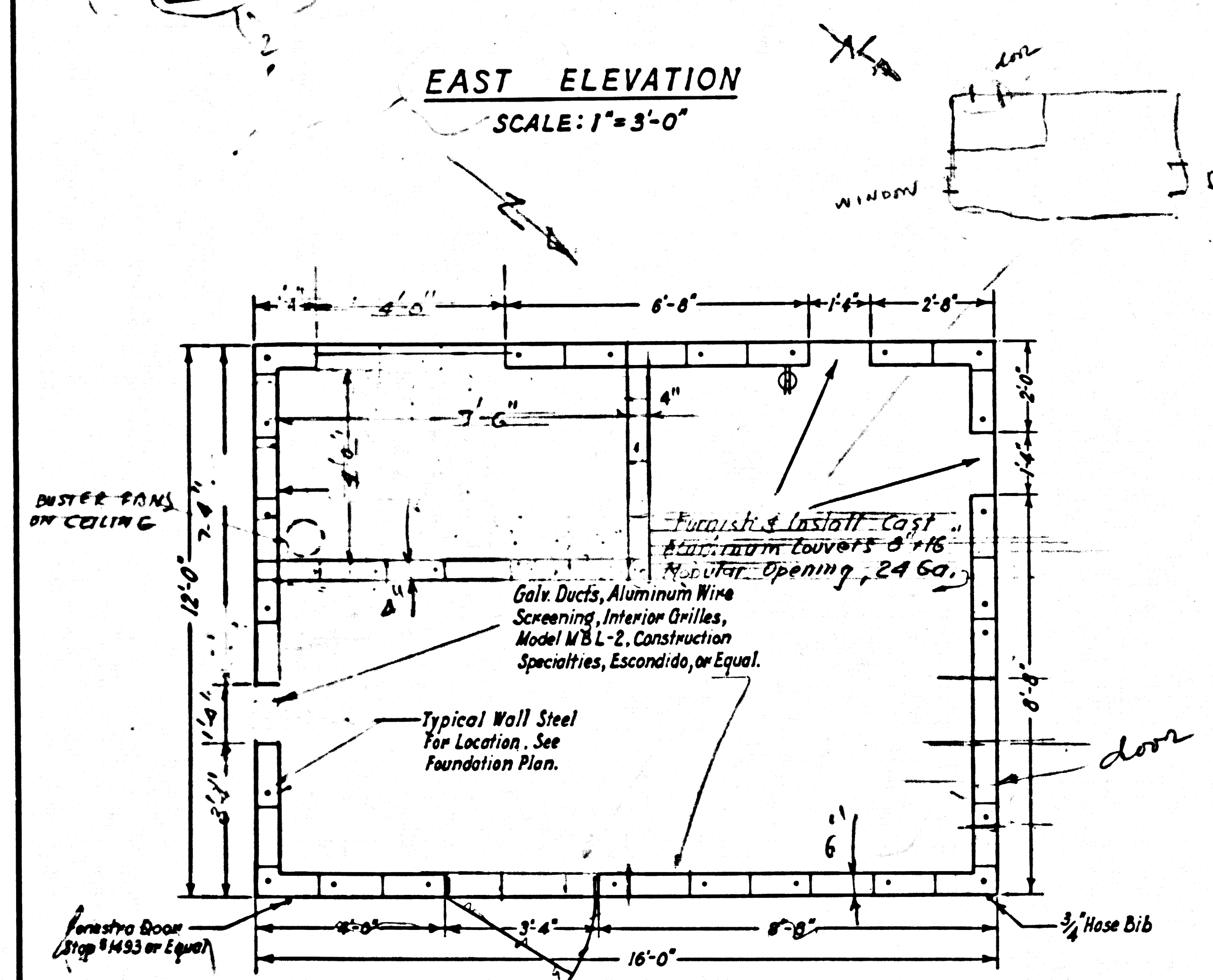
NORTH ELEVATION
SCALE: 1" = 3'-0"



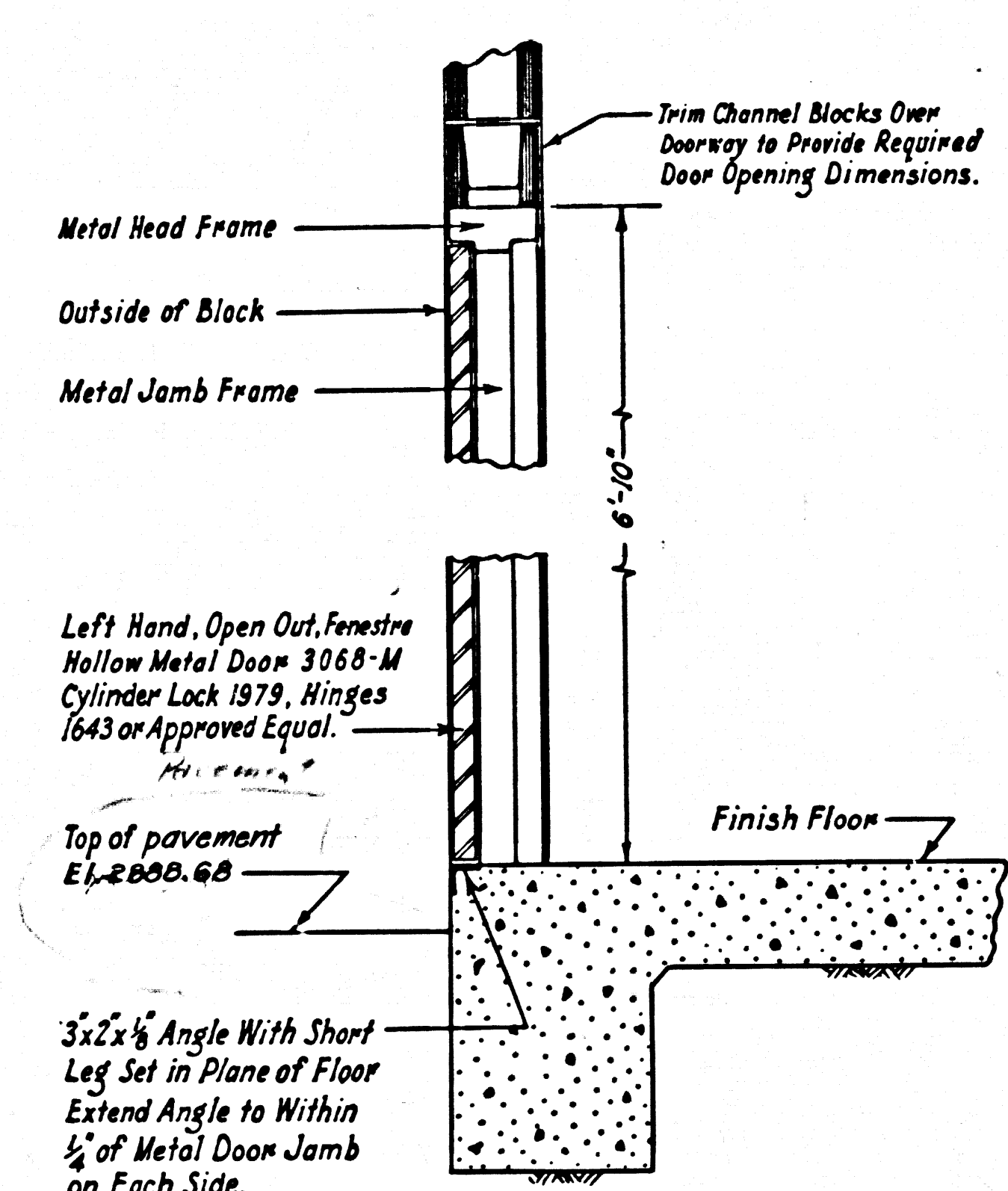
EAST WALL SECTION (TYPICAL)
SCALE: 1" = 2'-0"



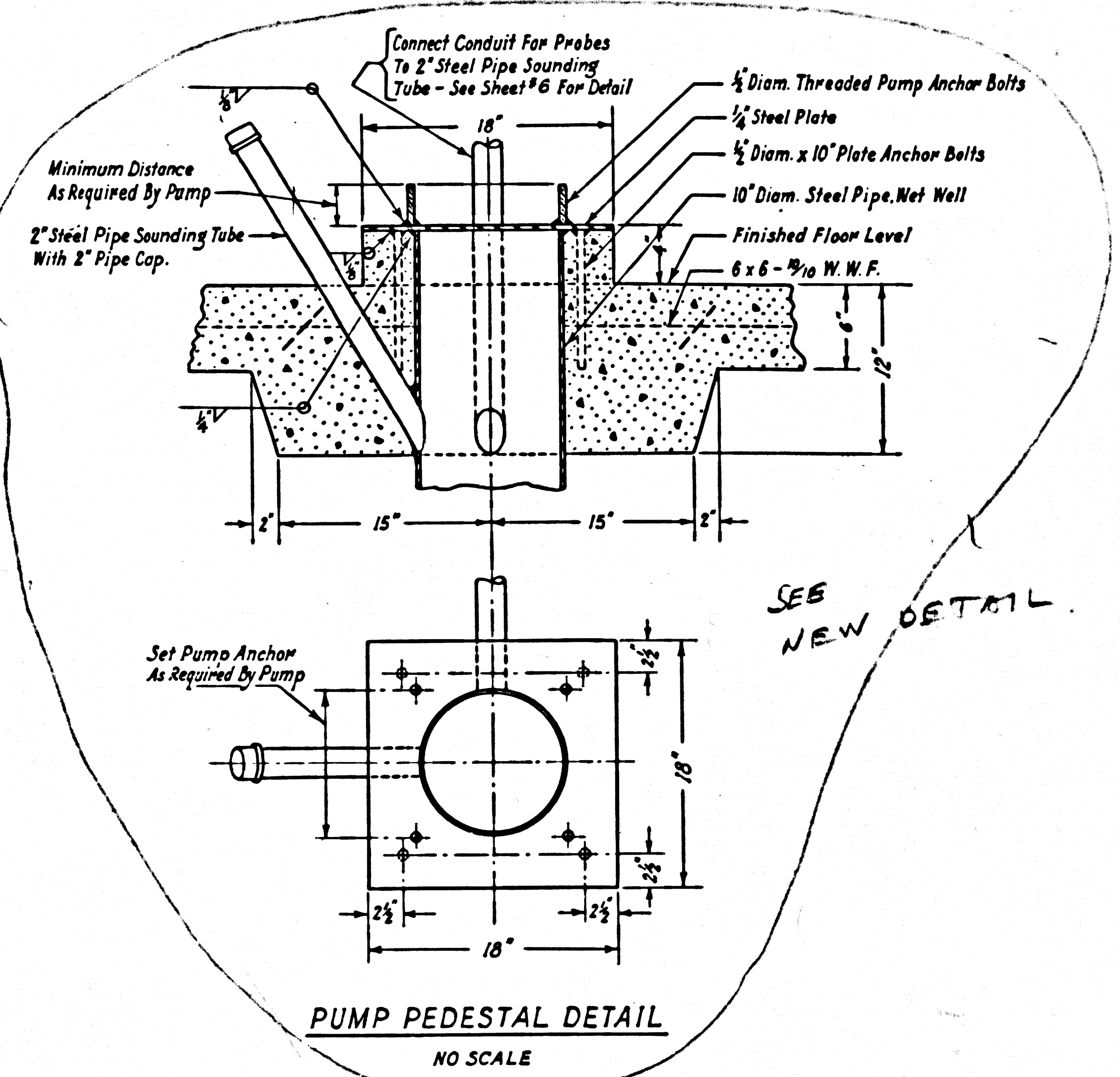
ROOF PLAN AND EQUIPMENT LOCATION
SCALE: 1" = 3'-0"



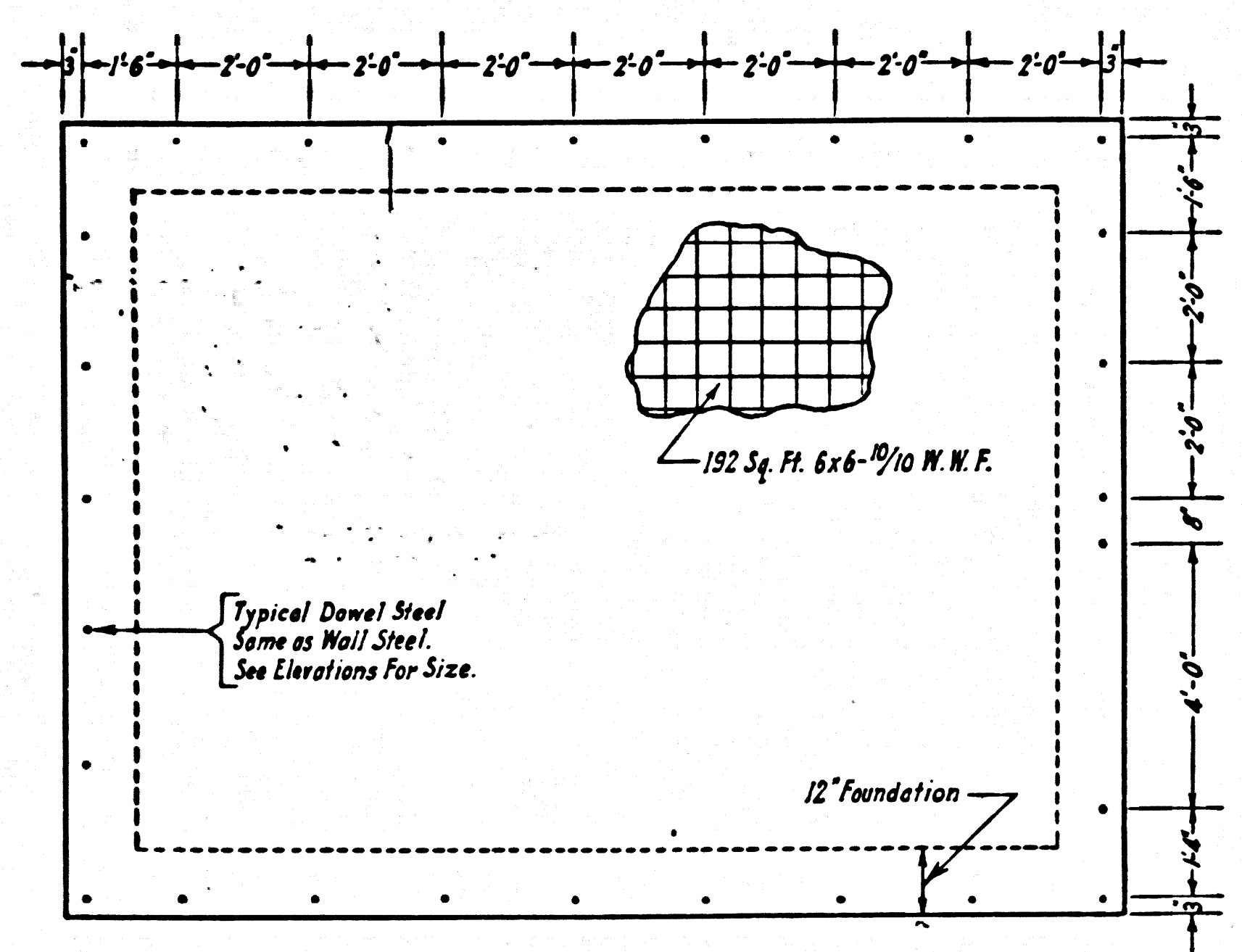
PLAN AT FIRST BLOCK COURSE
SCALE: 1" = 3'-0"



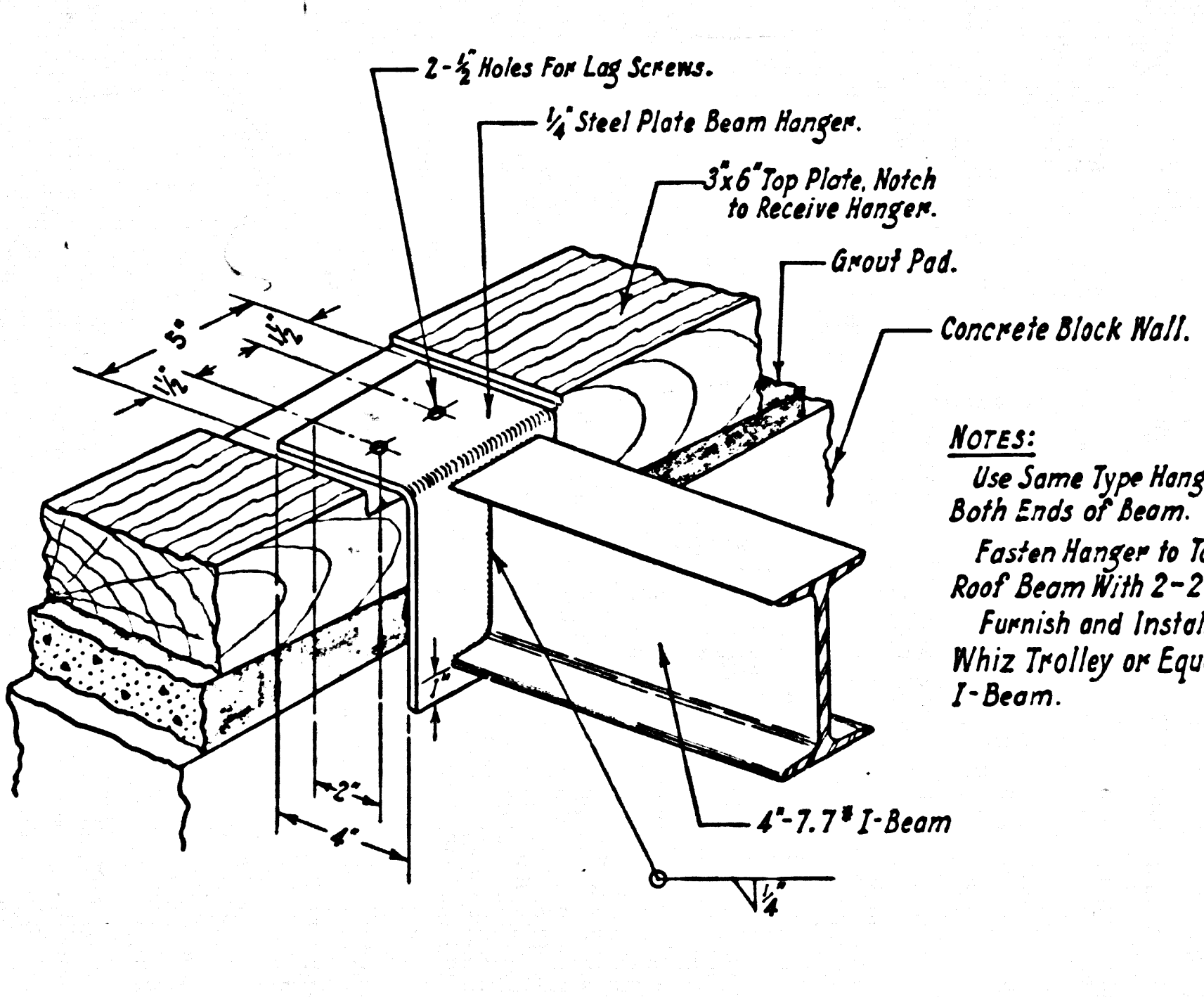
DOOR OPENING DETAIL
SCALE: 1" = 1'-0"



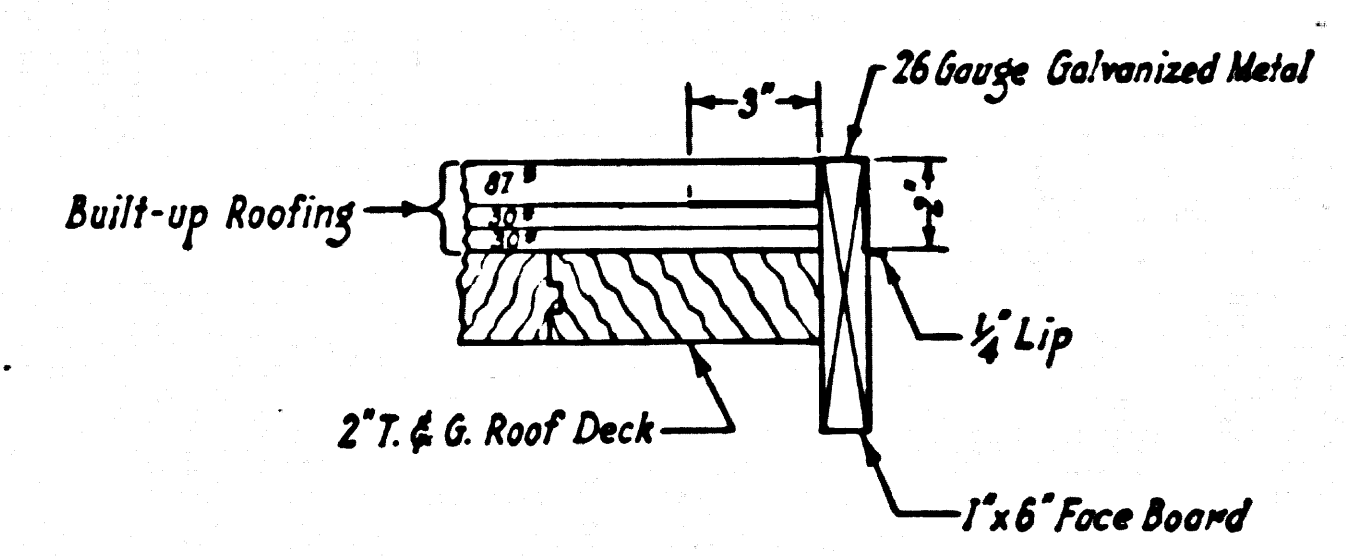
PUMP PEDESTAL DETAIL
NO SCALE



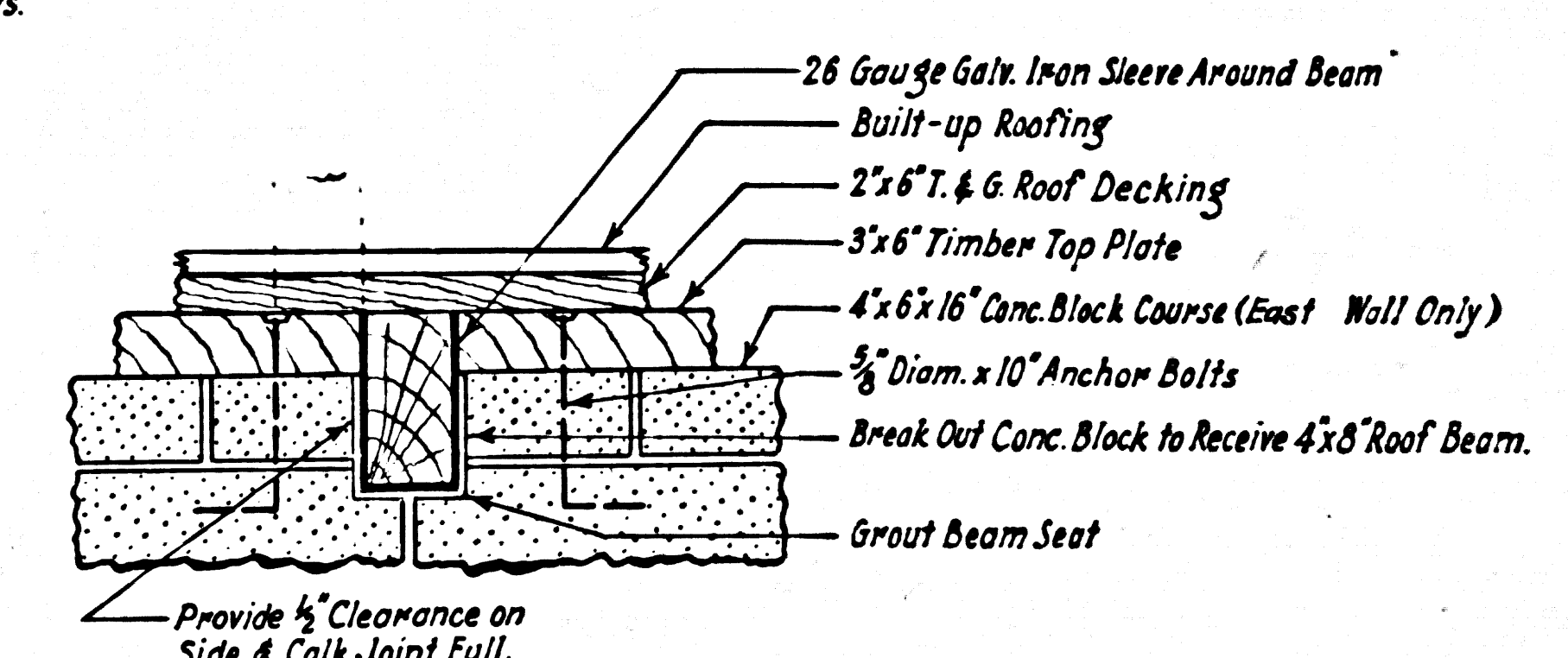
SLAB AND FOUNDATION PLAN
SCALE: 1" = 3'-0"



BEAM HANGER DETAIL
NO SCALE



ROOF FLASHING DETAIL
NO SCALE



TYPICAL BEAM SEAT DETAIL
NO SCALE

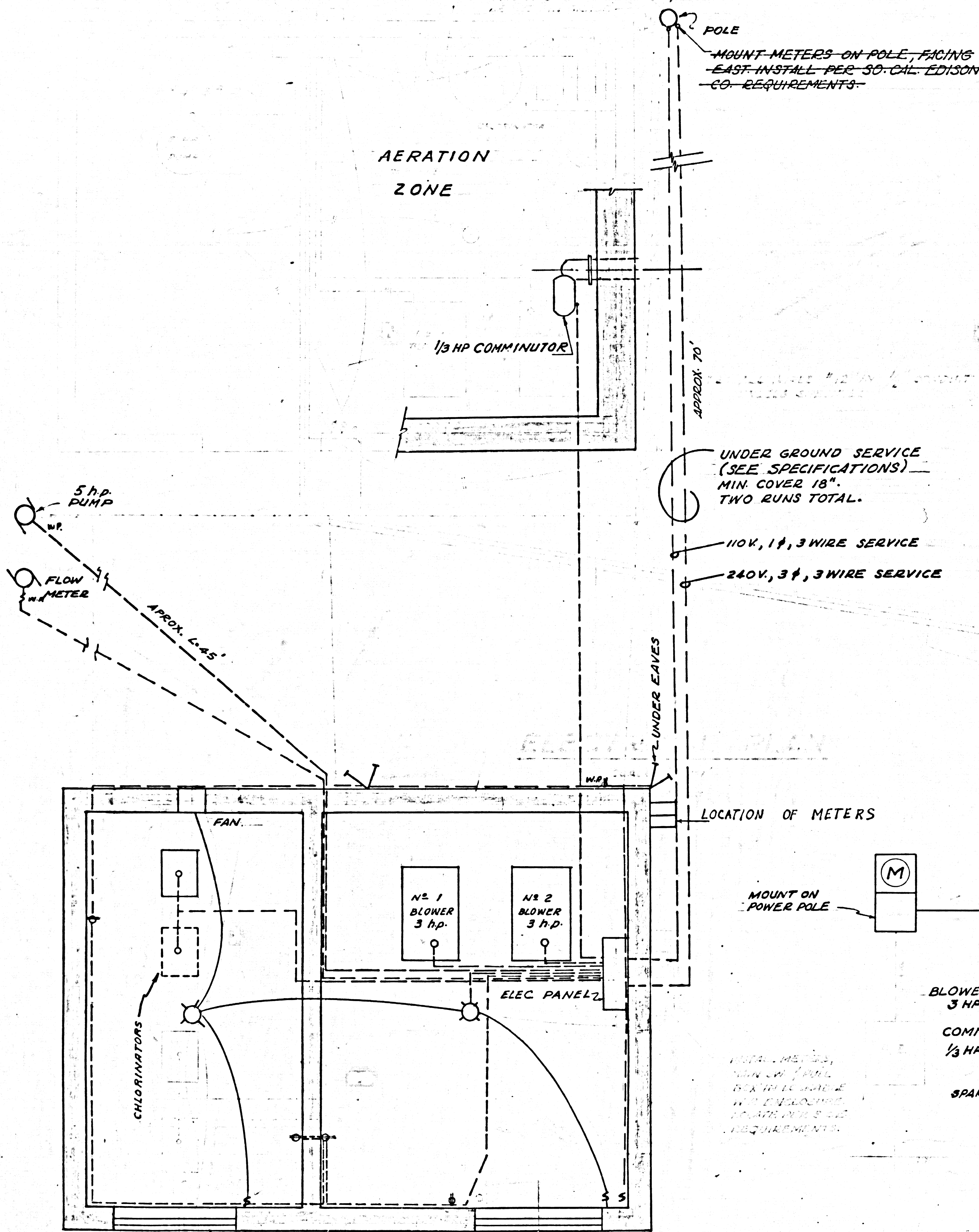
GENERAL NOTES:

- All Cells Containing Vertical Steel Will Be Filled With Grout. When Grout Pour Exceeds 4 Feet In Height An Inspection Hole Is To Be Placed At The Bottom Of Every Cell Containing A Vertical Reinforcing Bar. Mortar Droppings Are To Be Cleaned Out Of This Cell Before Steel Is Placed.
- Cells Must Not Be Filled Before They Have Been Inspected. Vertical Steel Must Be In Place At The Time Of Inspection. Grouting Must Not Be Done Through The Band Beam Steel.
- Cells Containing Embedded Bolts Shall Be Grouted Full For A Distance Of 4 Inches Above And 4 Inches Below The Bolt.
- Beam Blocks Will Be Used To Carry Horizontal Steel, Except Over Doorway Where Channel Blocks Will Be Used.
- The Beam Blocks Will Be Laid Over Strips Of Metal Lath. Do Not Place Metal Lath Over Cells That Are To Be Grouted.
- Where Splicing Of Reinforcing Bars Is Required, The Bars Will Be Lapped A Minimum Of 15 Inches.
- Lumber Shall Be Douglas Fir Construction Grade or Better. Structural Welding Shall be Performed in a Licensed Fabricator's Shop.

EQUIPMENT BUILDING	
PC. 6891	CAP. PROJ. 9609.07
DESIGNED:	TRACED: CHECKED:
SCALE: AS SHOWN	DATE: SHEET NO. 7A OF 12 SHEETS

46,089

TRIM LINE

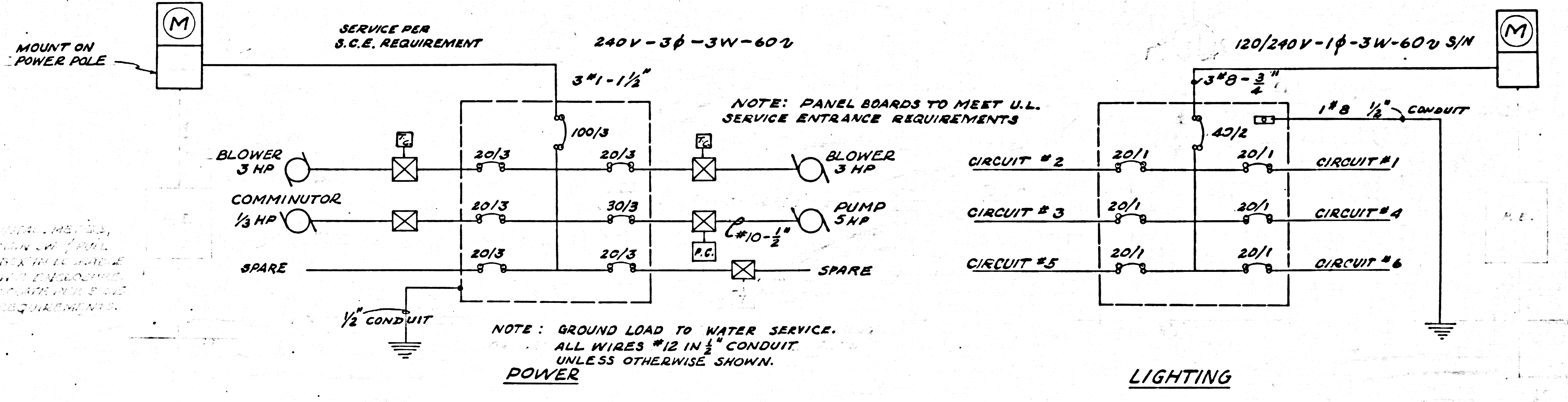


ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

LEGEND	
SYMBOL	DESCRIPTION
	INTERIOR LIGHTS
	OUTSIDE FLOOD LIGHT
	DUPLEX CONVENIENCE OUTLET
	DUPLEX CONVENIENCE OUTLET (WEATHER PROOF)
	BURIED CONDUIT
	EXPOSED CONDUIT
	SELF CONTAINED SWITCHED RECEPTACLE
	SINGLE POLE SWITCH
	MAGNETIC MOTOR STARTERS
	PUMP FLOAT CONTROL
	TIME CLOCK, BLOWER CONTROL

LIGHTING LOAD SCHEDULE					
1φ 120/240 V A.C. 3W S/N					
CIR. NO.	CIR. BKR.	OUTLET	LOAD WATTS		DESCRIPTION
1	20	1 2	400	L ₁	INTERIOR LIGHTS
2	20	1 2	400		OUTSIDE FLOOD LIGHTS
3	20	1 2	120		CHLORINATOR
4	20	1 6	1200		CONVENIENCE OUTLETS
5	20	1	400		FLOW METER
6	20	1	400		SPARE
T&B	20	1			SPACES
TOTAL			1600	1320	1600 W. ÷ 120V = 13.4 AMPS

LOAD SCHEDULE				
CIR. NO.	CIR. BKR.	LOAD AMP		DESCRIPTION
1	20	3	9	3 HP BLOWER MOTOR
2	20	3	9	3 HP BLOWER MOTOR
3	20	3	1	1/3 HP COMMINUTOR MOTOR
4	30	3	15	5 HP PUMP MOTOR
5	20	3	9	SPARE
6	20	3	9	SPARE
T&B				SPACES
TOTAL		52	52 + 30 = 82 AMPS	



SINGLE LINE DIAGRAMS

ELECTRICAL PLAN			
PC 6891	CAP. PROJ. 9602.07		
DESIGNED • OBRADONITCH	TRACED • OBRADONITCH	CHECKED • HOWARD	
SCALE • AS SHOWN	DATE • 10/1964	SHEET • 8 OF 12 SHEETS	

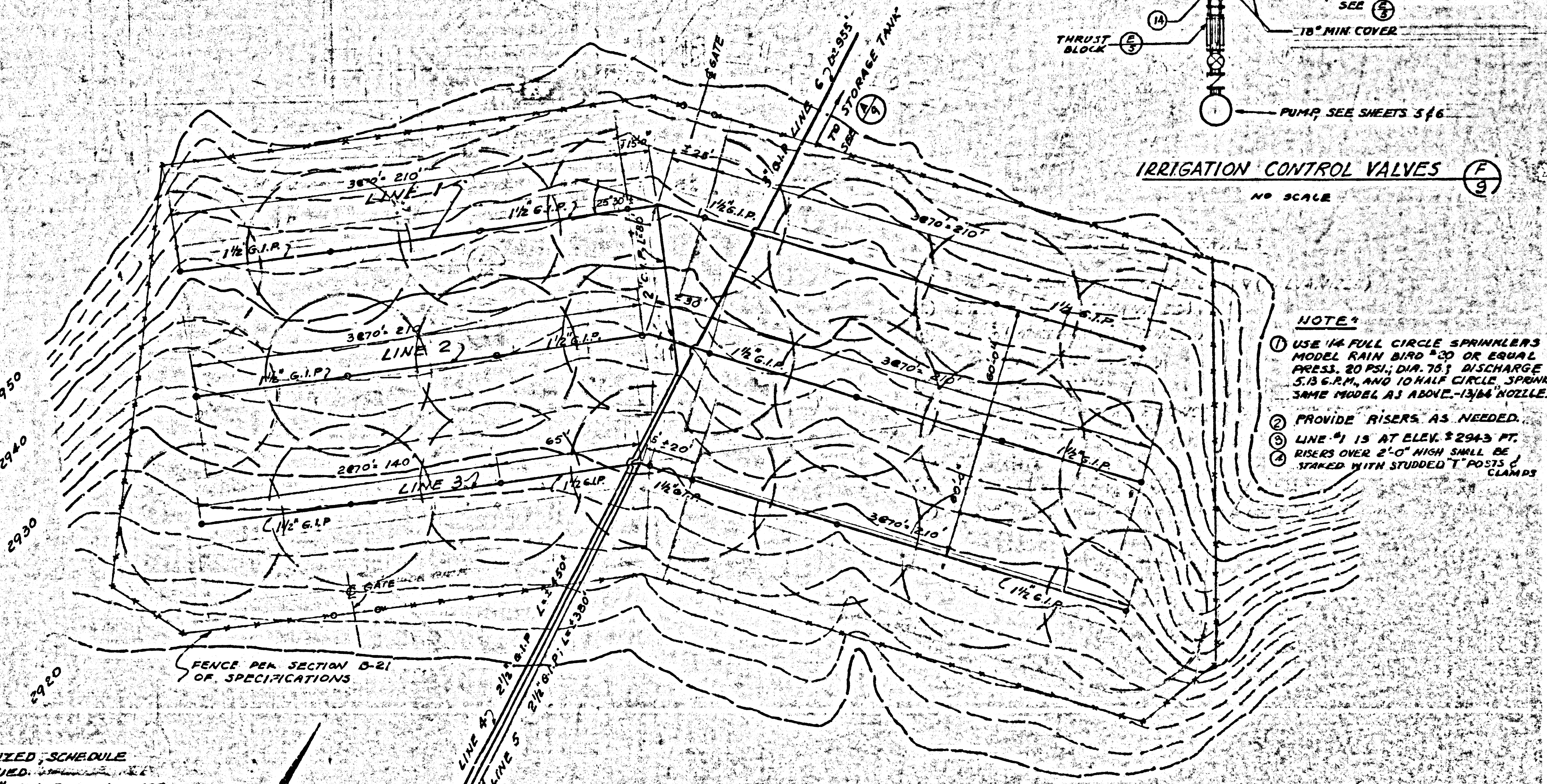
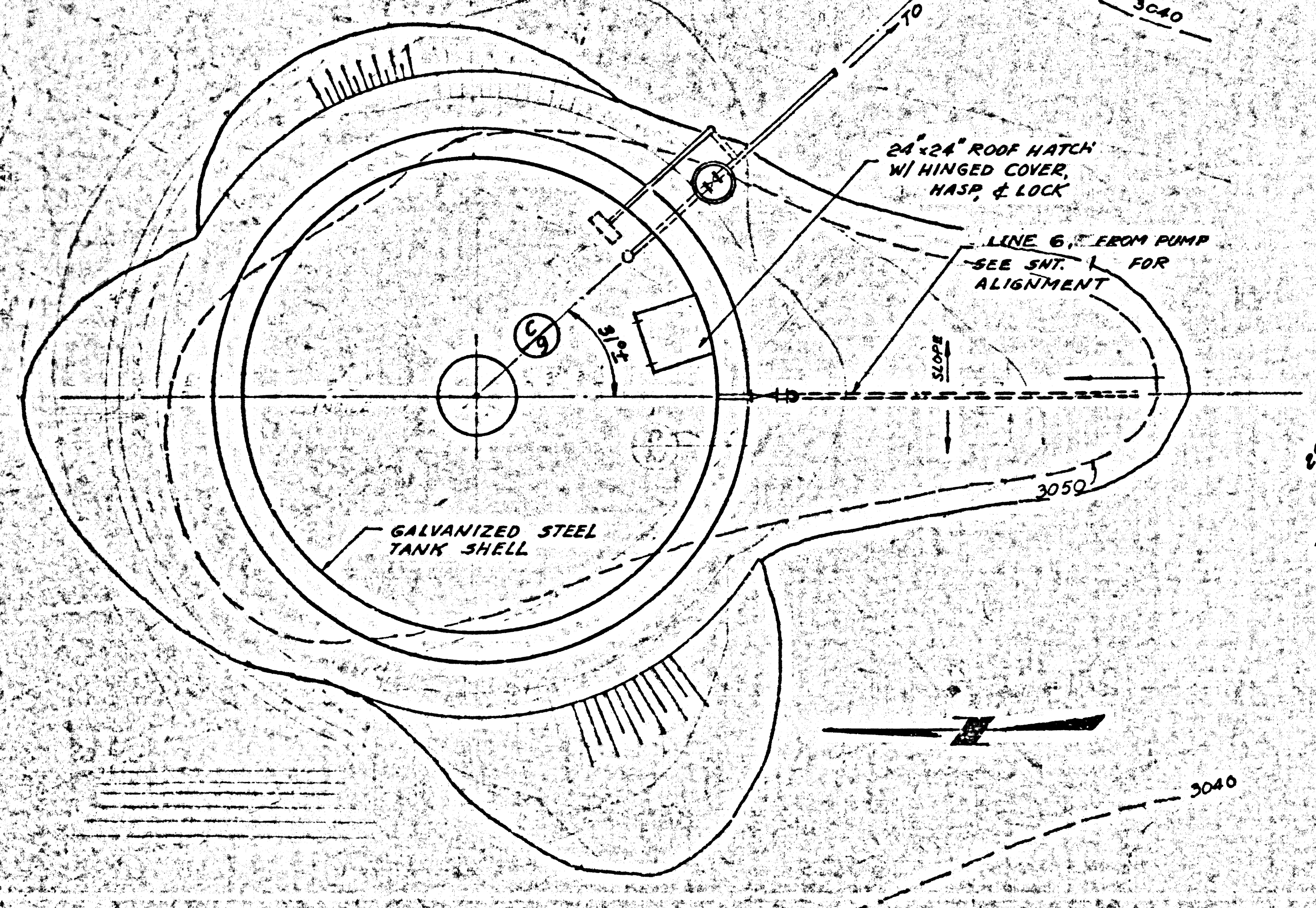
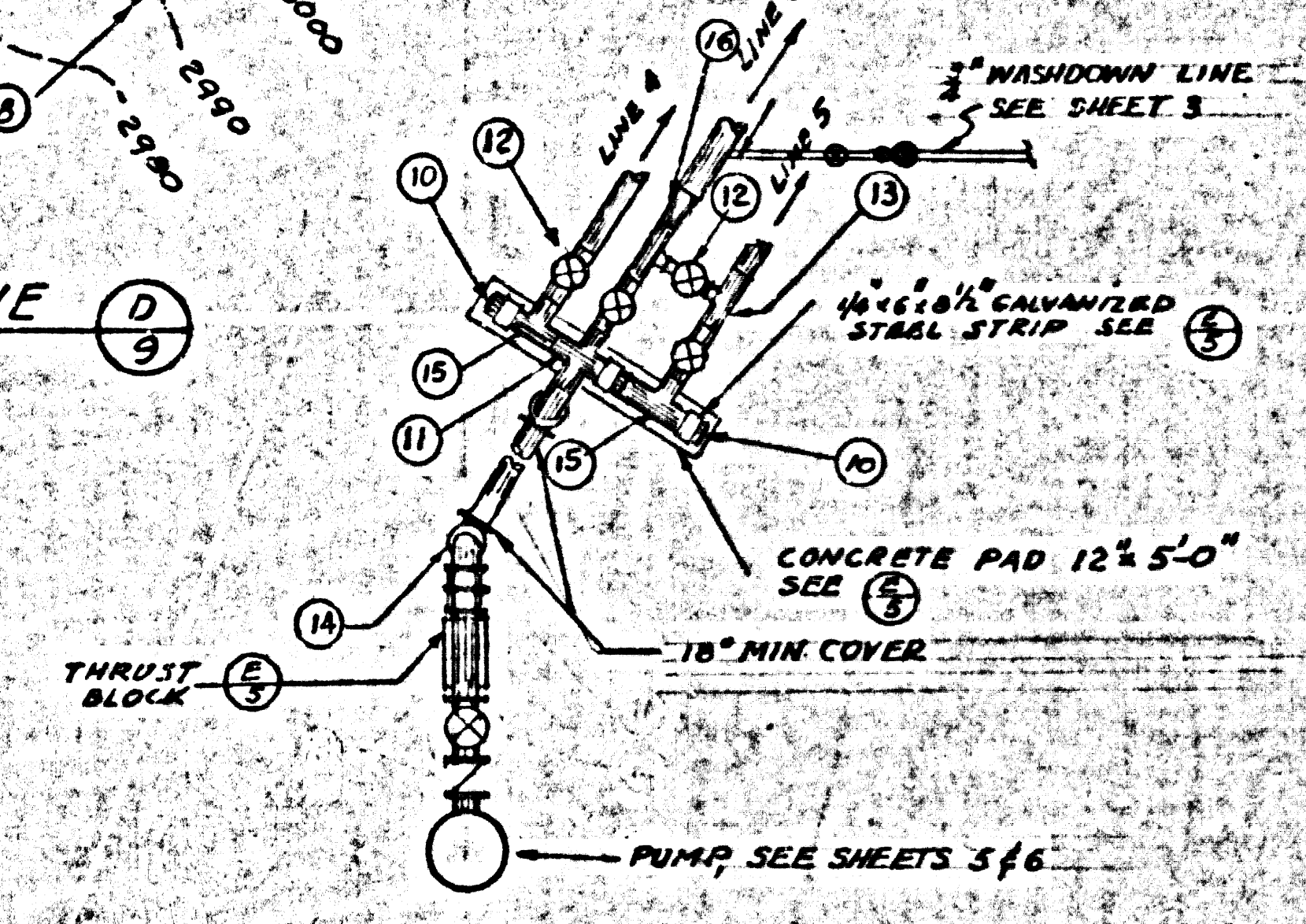
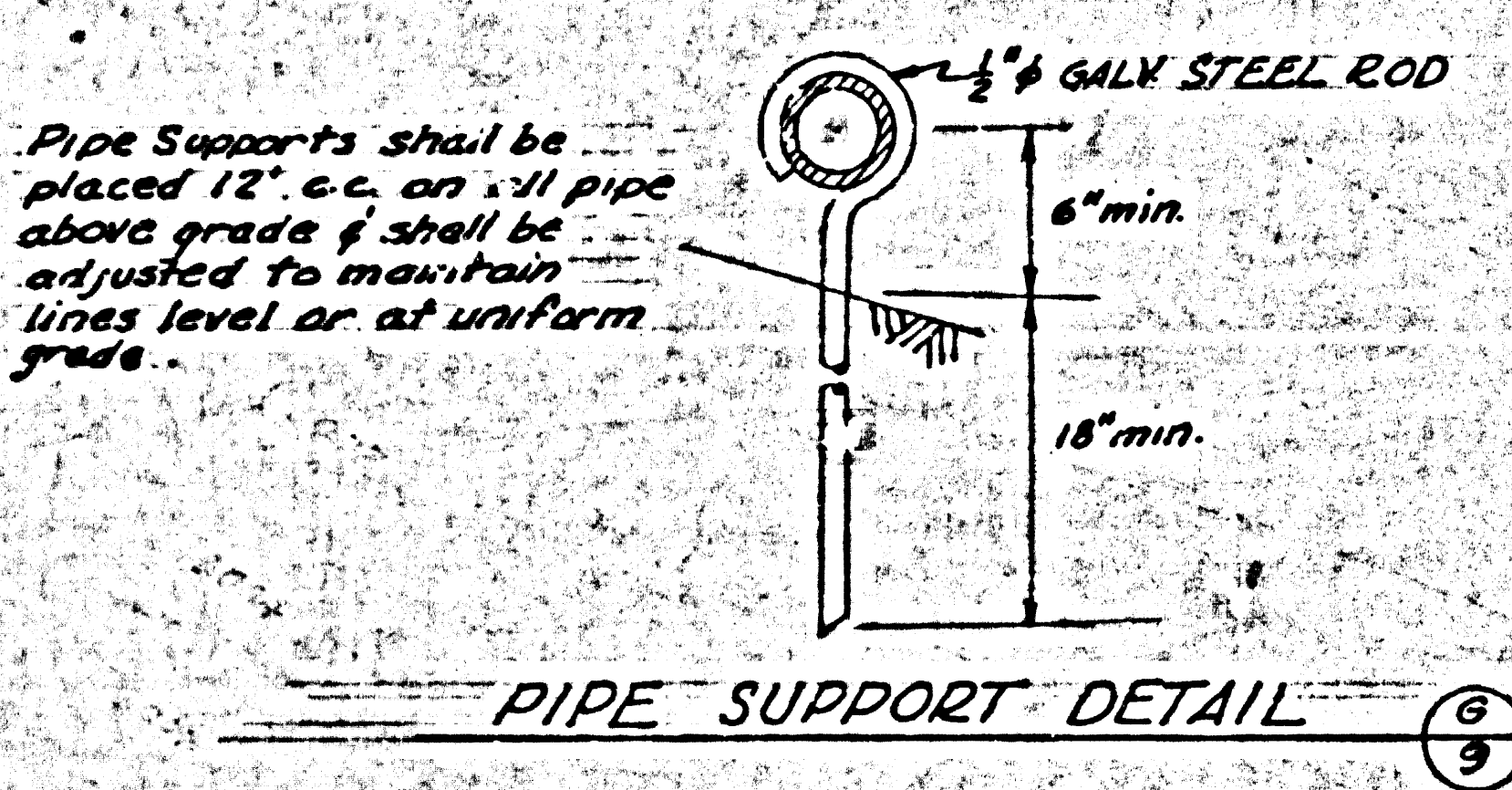
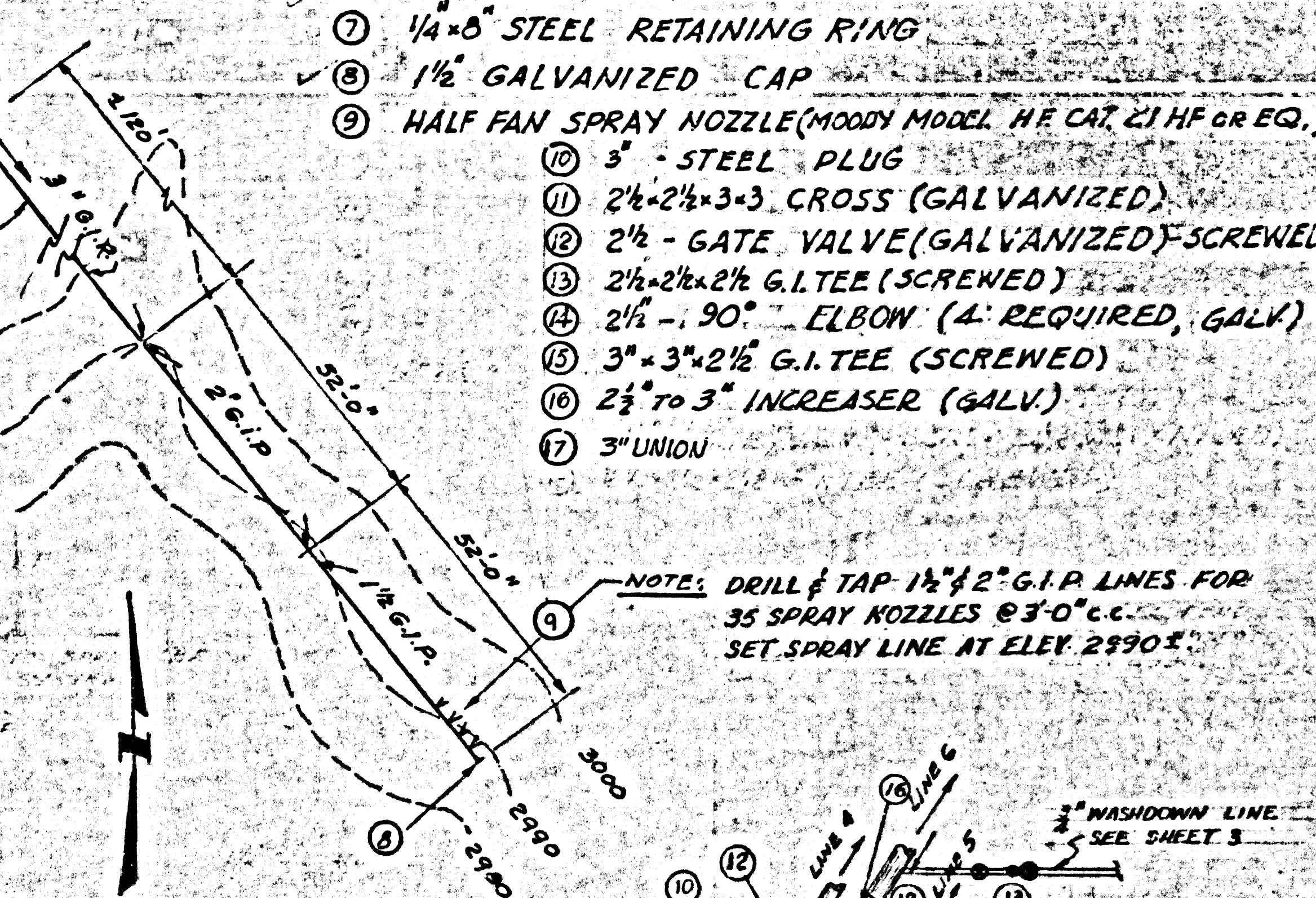
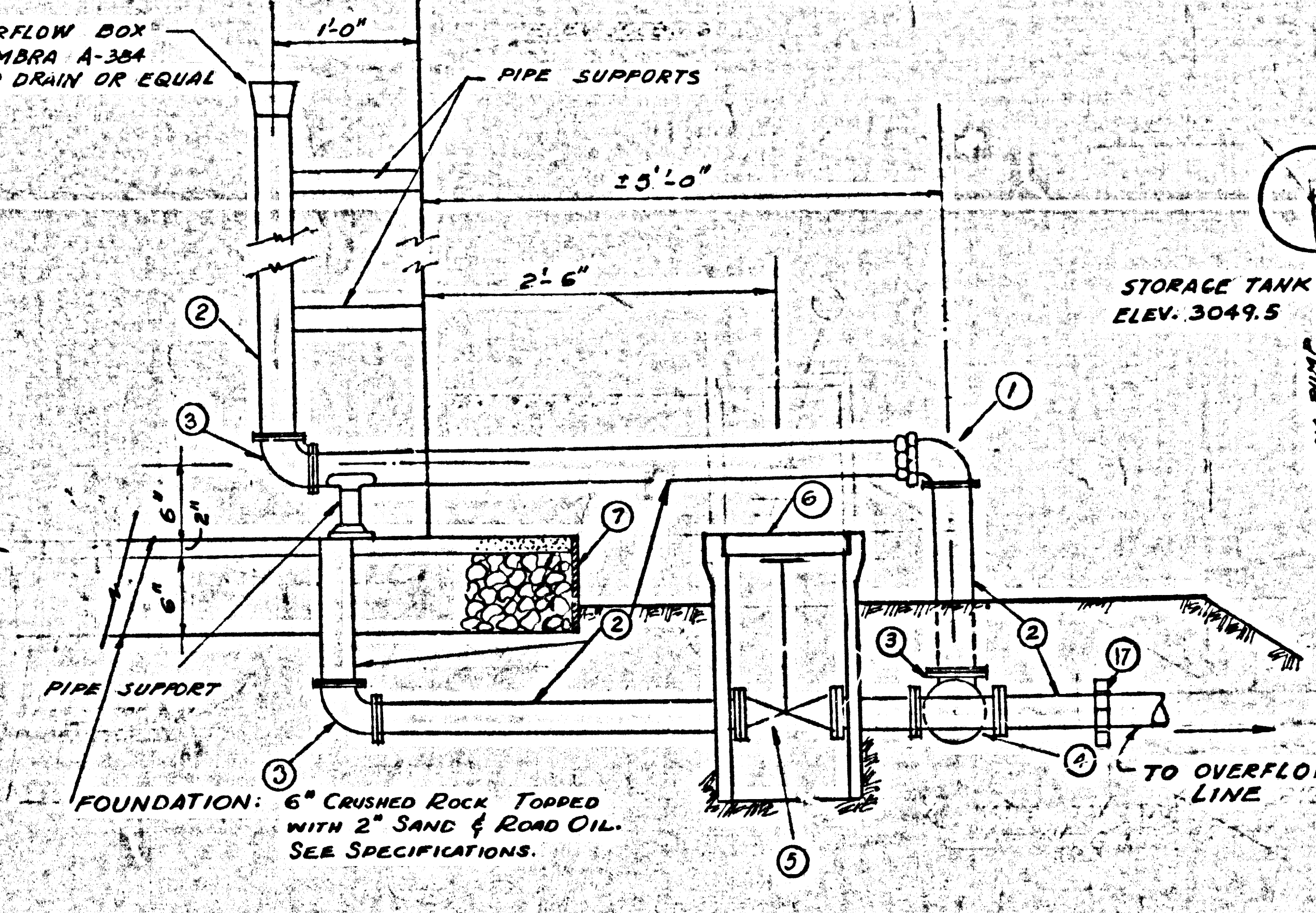
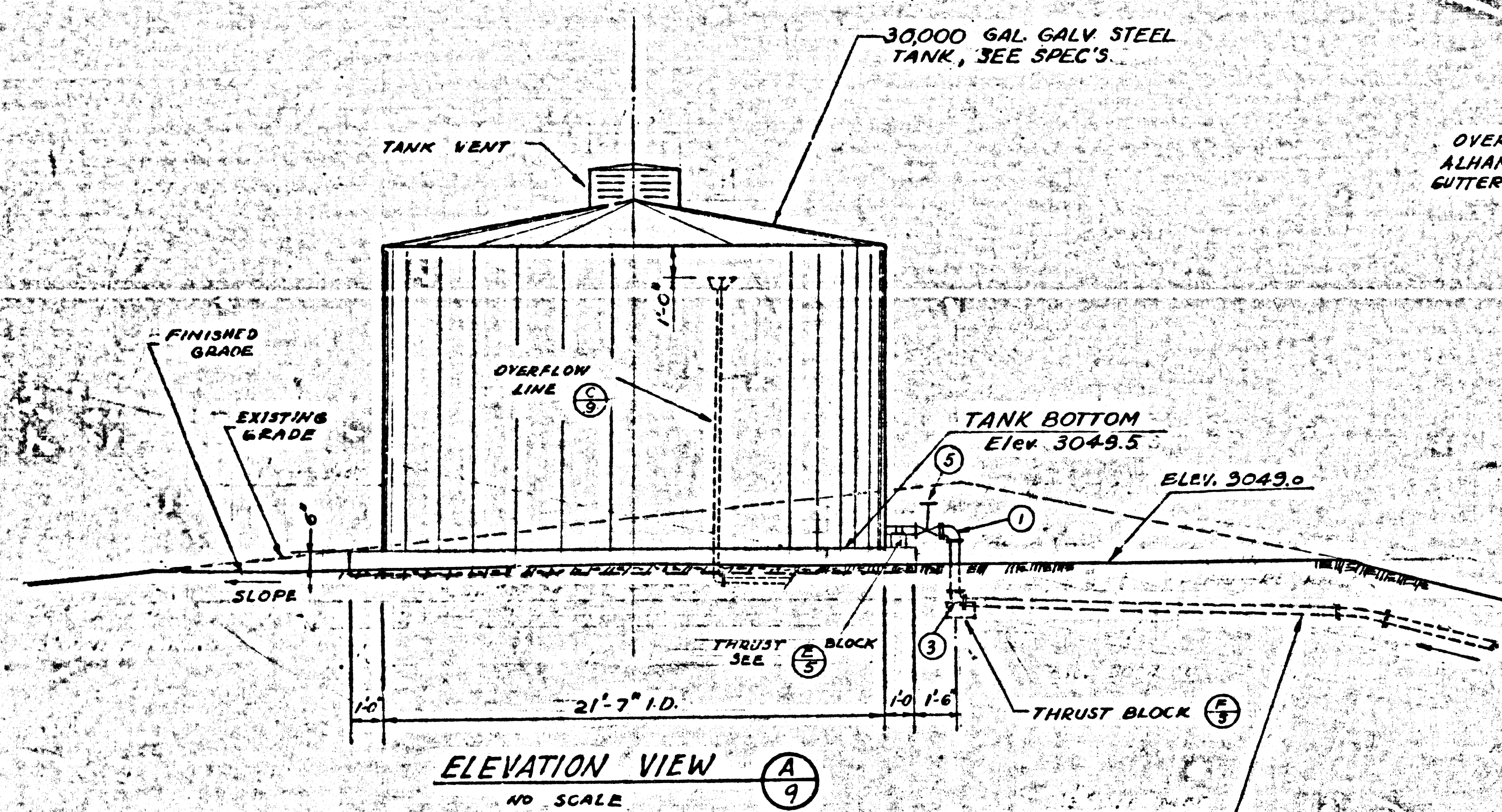
46,090

PC 6891 CAP PROJ 9602.07 INDS - WINDMILL BOX, CWB

LIST OF MATERIALS

- ① 3" - 90° ELBOW WITH FEMALE UNION (GALVANIZED)
- ② 3" PIPE (GALVANIZED)
- ③ 3" - 90° ELBOW (GALVANIZED)
- ④ 3" - TEE (GALVANIZED)
- ⑤ 3" - GATE VALVE
- ⑥ VALVE BOX (BROOKS PRODUCTS - NO. 10 OR EQUAL)
- ⑦ 1/4" x 6" STEEL RETAINING RING
- ⑧ 1 1/2" GALVANIZED CAP
- ⑨ HALF FAN SPRAY NOZZLE (MOODY MODEL #E CAT 21 HF OR EQ.)
- ⑩ 3" - STEEL PLUG
- ⑪ 2 1/2" x 2 1/2" x 3" CROSS (GALVANIZED)
- ⑫ 2 1/2" - GATE VALVE (GALVANIZED) - SCREWED
- ⑬ 2 1/2" x 2 1/2" G.I. TEE (SCREWED)
- ⑭ 2 1/2" - 90° ELBOW (4 REQUIRED, GALK)
- ⑮ 3" x 3" x 2 1/2" G.I. TEE (SCREWED)
- ⑯ 2 1/2" TO 3" INCREASER (GALK)
- ⑰ 3" UNION

NOTE: DRILL & TAP 1 1/2" x 2" G.I.P. LINES FOR 35 SPRAY NOZZLES @ 3'-0" C.C. SET SPRAY LINE AT ELEV. 2990'



NOTES

- ALL PIPES SHALL BE GALVANIZED, SCHEDULE 40 UNLESS OTHERWISE SPECIFIED.
- LINE 6 SHALL BE LAID 18" MIN. BELOW GRADE, ALL OTHER LINES MAY BE SET AT EXISTING GRADE, NORTH OF LAKE HUGHES RD. ALL LINES SHALL HAVE A MINIMUM COVER OF 5'-0" WITHIN LAKE HUGHES RD. R/W.
- RESURFACE TRENCH WITHIN PAVED AREA OF LAKE HUGHES RD. WITH 3 INCHES OF FRENIX ROCK & OIL ON 4 INCHES AGGREGATE BASE MATERIAL.

NOTE:

- USE 1/4" FULL CIRCLE SPRINKLERS MODEL RAIN BIRD #30 OR EQUAL PRESS. 20 PSI; DIA. 75 1/2 DISCHARGE 5.13 G.P.M. AND 10 HALF CIRCLE SPRINKER MODEL AS ABOVE - 1/8" NOZZLE
- PROVIDE RISERS AS NEEDED.
- LINE #1 IS AT ELEV. 2943 FT.
- RISERS OVER 2'-0" HIGH SHALL BE STAKED WITH STUDDED "T" POSTS & CLAMPS

IRRIGATION RESERVOIR #4
 P.C. 6891 SPRAY AREA CAR PROJ. 960307
 DESIGNED: OSBRAD TRACED: OSBRAD CHECKED: HOWARD
 SCALE: AS SHOWN DATE: 10/1964 SHEET: 9 OF 12 SHEETS.

P.C. 6891 - CAR PROJ. 960307 - IRRIGATION RESERVOIR #4