

TOWN OF FERNDALE, WASHINGTON

SEWAGE SYSTEM IMPROVEMENTS
TREATMENT AND PUMPING FACILITIES
SCHEDULE I

STEVENS, THOMPSON & RUNYAN, INC.

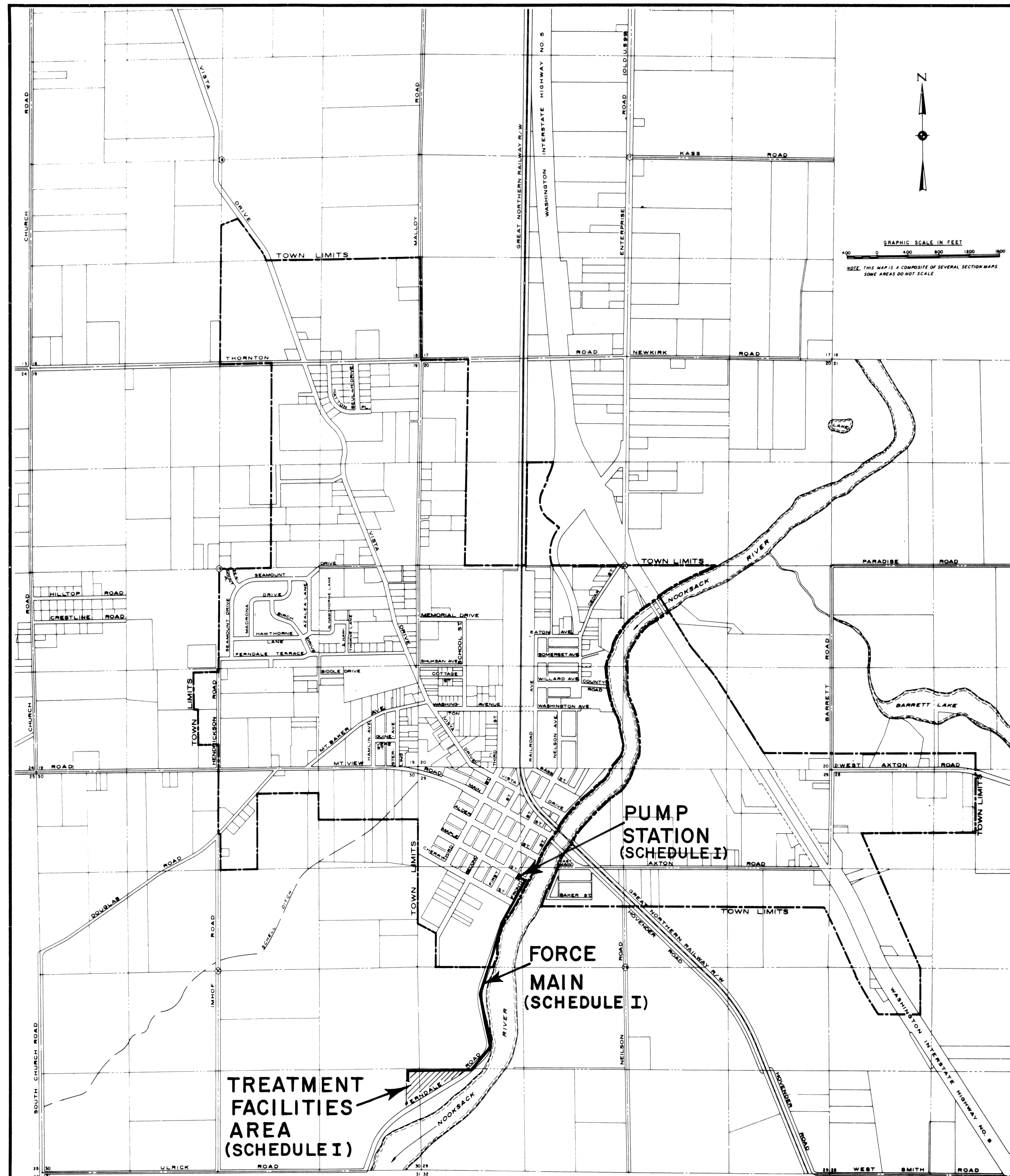
Engineers / Planners

SEATTLE, WASHINGTON

PORTLAND, OREGON

MICROFILMED

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INDEX TO DRAWINGS	
SHEET NO.	TITLE
1	LOCATION MAP AND INDEX TO DRAWINGS
2	PUMP STATION - PLOT PLAN
3	PUMP STATION-ARCHITECTURAL-PLAN AND ELEVATIONS
4	PUMP STATION - ARCHITECTURAL- DETAILS
5	PUMP STATION- MECHANICAL- PLANS AND DETAILS
6	PUMP STATION- MECHANICAL-SECTIONS AND DETAILS
7	PUMP STATION- MECHANICAL-SECTIONS AND DETAILS
8	PUMP STATION- STRUCTURAL
9	PUMP STATION - ELECTRICAL-LIGHTING AND POWER PLAN
10	PUMP STATION-ELECTRICAL- MISCELLANEOUS DETAILS
11	PUMP STATION-ELECTRICAL-DIAGRAMS
12	PLAN AND PROFILE- FORCE MAIN
13	PLAN AND PROFILE - FORCE MAIN
14	LAGOON PLAN
15	LAGOON MISCELLANEOUS DETAILS
16	LAGOON MISCELLANEOUS
17	CHLORINATION BLDG.-ARCHITECTURAL-PLAN AND ELEVATIONS
18	CHLORINATION BUILDING-ARCHITECTURAL- DETAILS
19	CHLORINATION BUILDING-MECHANICAL-PLAN AND SECTIONS
20	CHLORINE CONTACT CHAMBER AND MISCELLANEOUS DETAILS
21	CHLORINE CONTACT CHAMBER - STRUCTURAL
22	CHLORINATION BUILDING -ELECTRICAL-PLOT PLAN AND DETAILS
23	CHLORINATION BUILDING-ELECTRICAL - DIAGRAMS AND DETAILS

EXISTING

NEW

W-6" WATERLINE W/SIZE & VALVE

WATER METER

FIRE HYDRANT

SANITARY SEWER W/SIZE & MANHOLE

CATCH BASIN

CULVERT

GAS LINE W/SIZE & VALVE

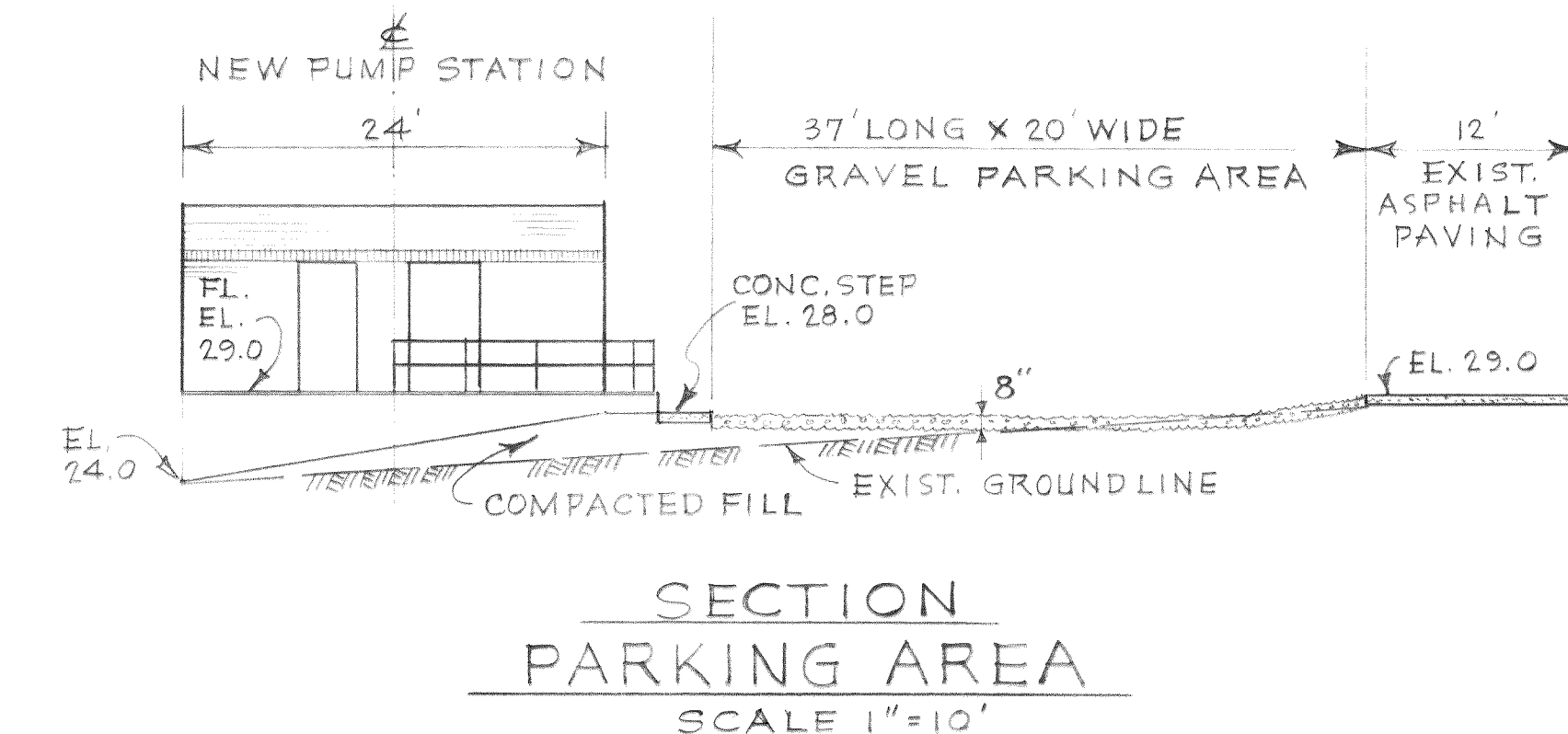
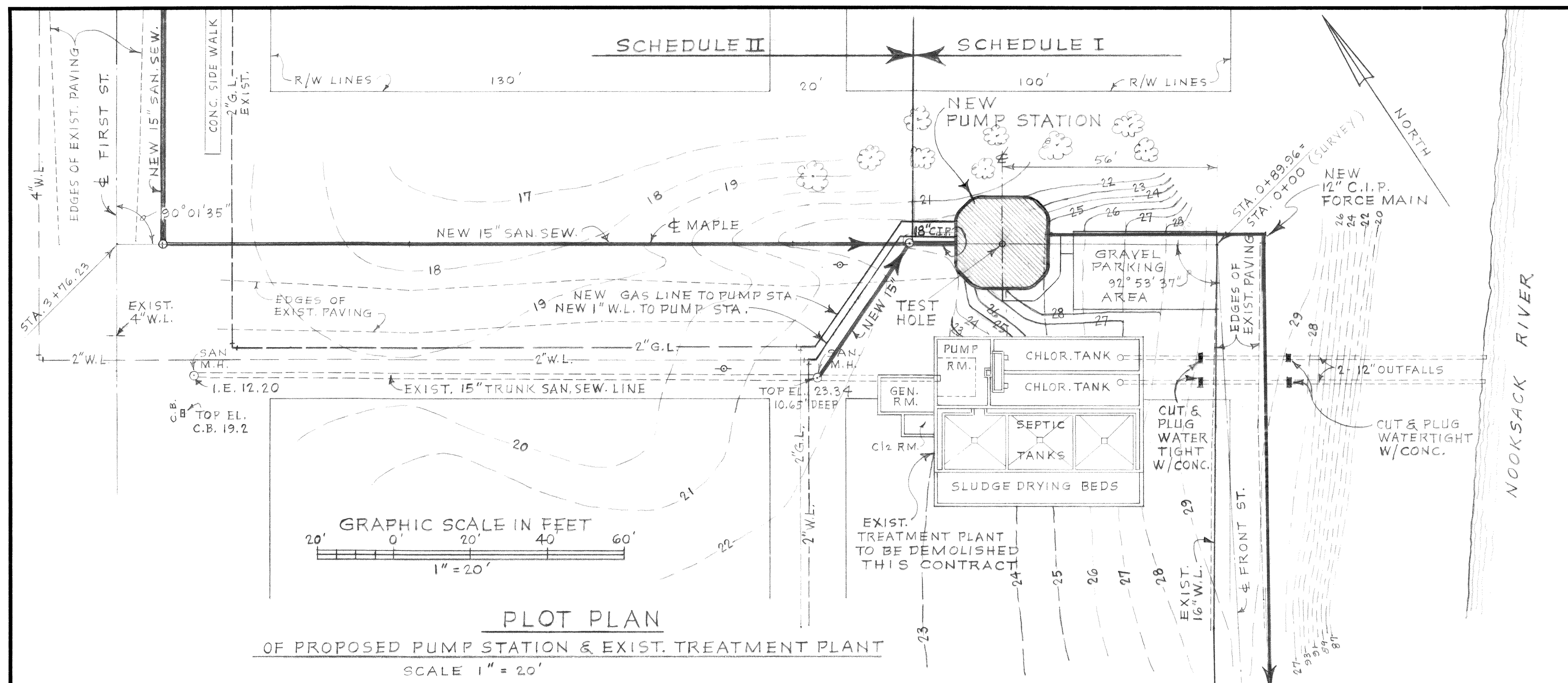
TELEPHONE OR POWER POLE

FENCE

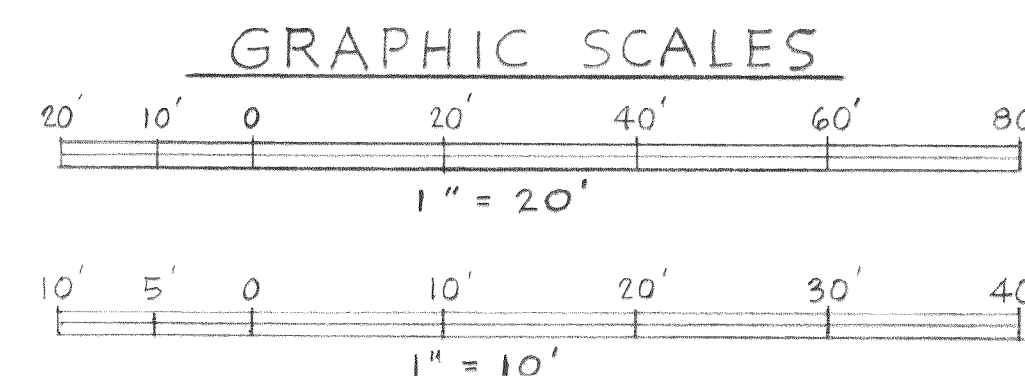
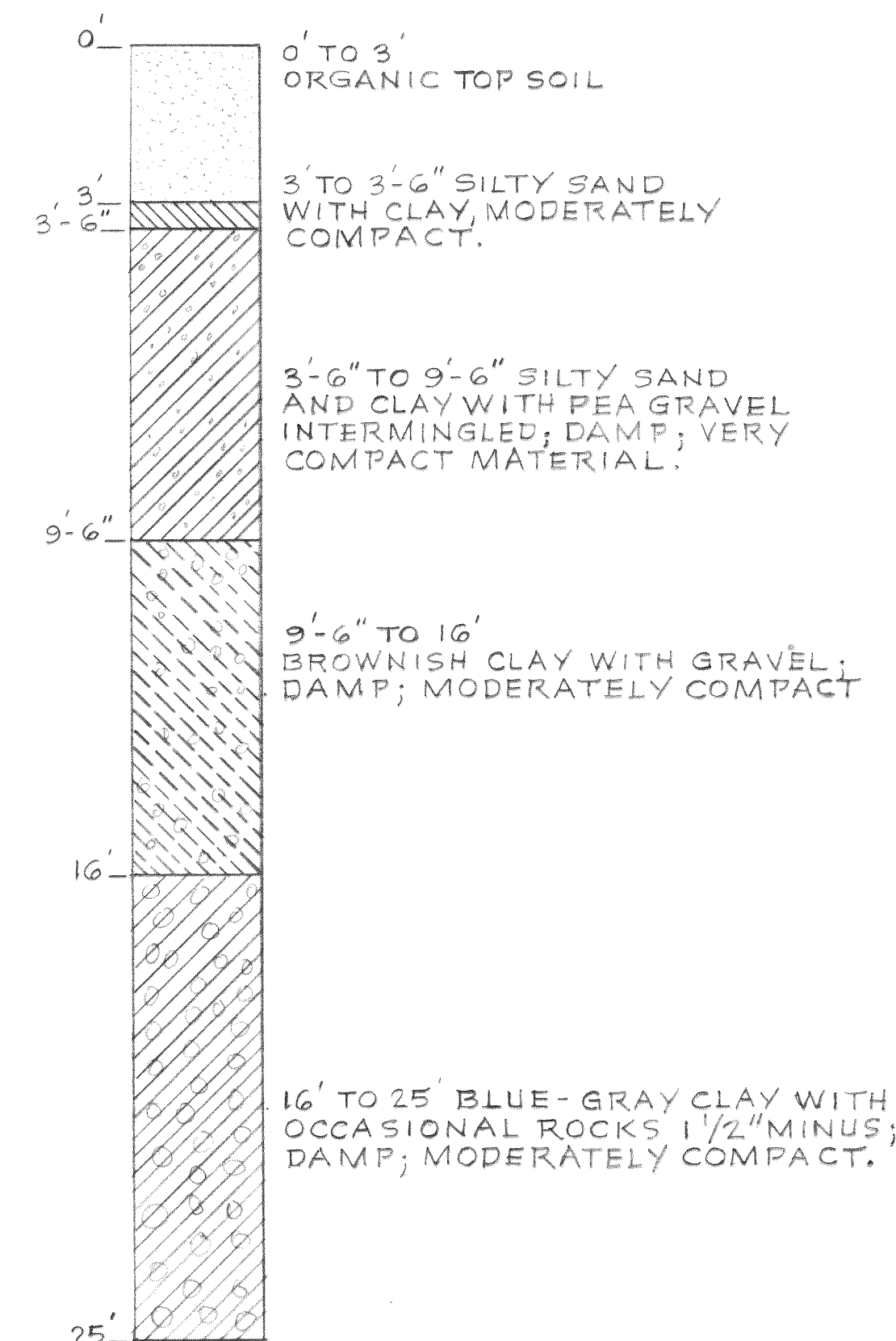
TREES

SIDEWALK

EXISTING ROAD SURFACE



NOTE:
PREDICTED 100 YEAR FLOOD STAGE THIS SITE = ELEV. 26.5 (M.S.L.)



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DESIGNED	T.S.	APPROVED	<i>L.R. McLaughlin</i>
DRAWN	L.J.M.	SCALE	AS SHOWN
DATE	NO.	REVISION	BY
CHECKED	T.S.	FILE	67-S-168.002



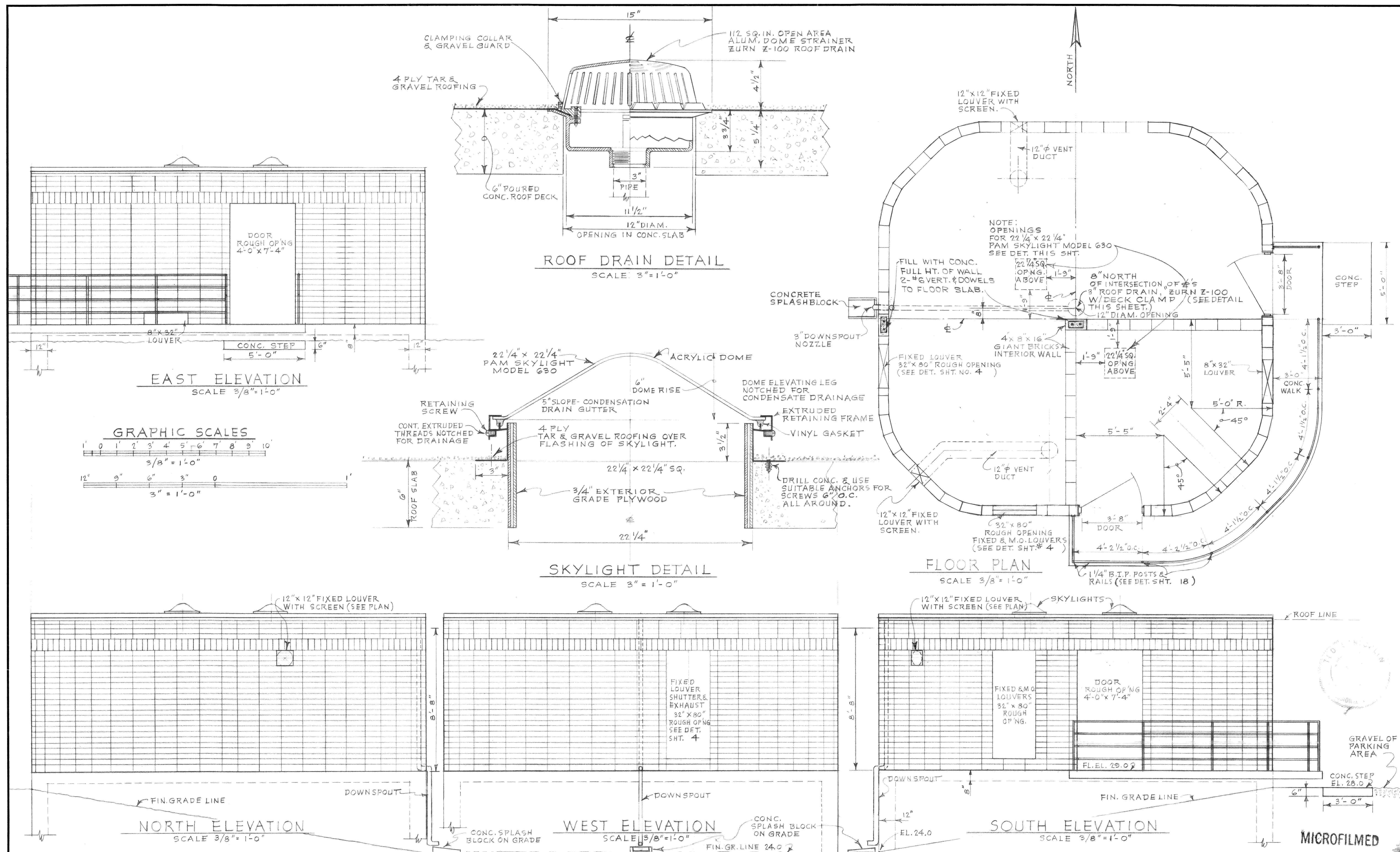
Stevens, Thompson & Runyan, Inc.
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PORTLAND, OREGON SEATTLE, WASHINGTON

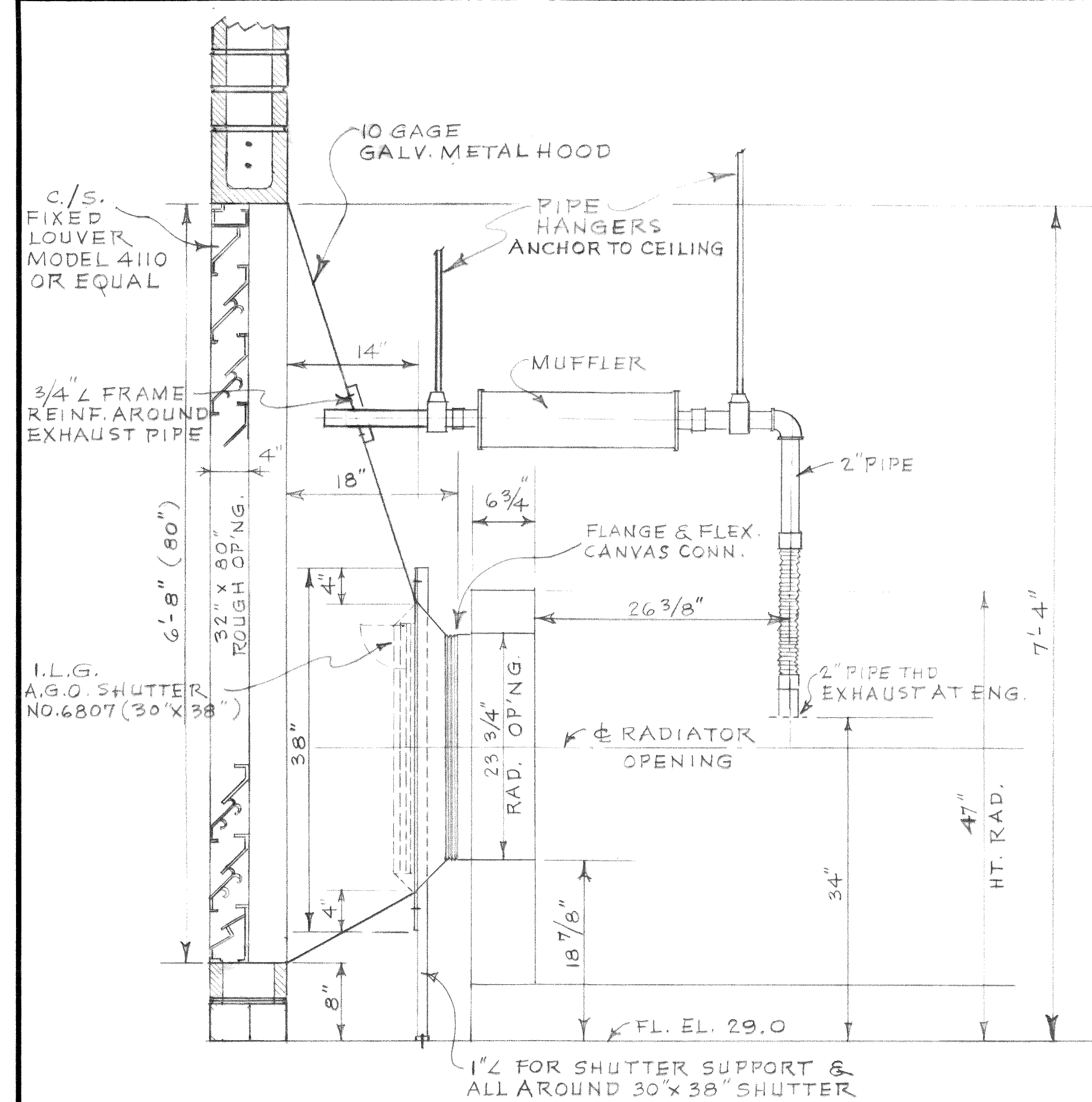
TOWN OF FERNDALE, WASHINGTON
TREATMENT AND PUMPING FACILITIES
SCHEDULE I

PUMP STATION PLOT PLAN

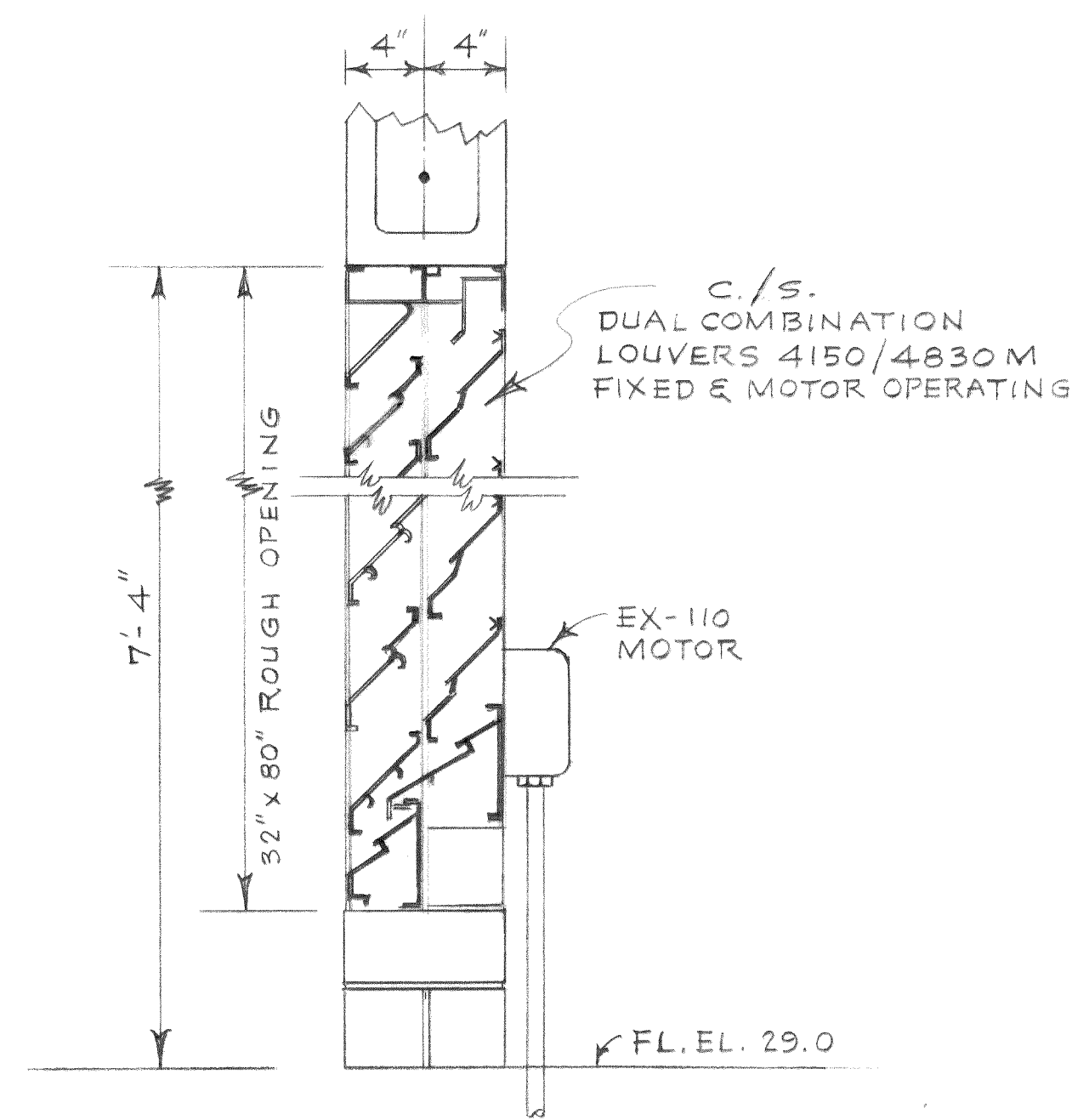
2
23

Dwg # 67-S-168.002-3

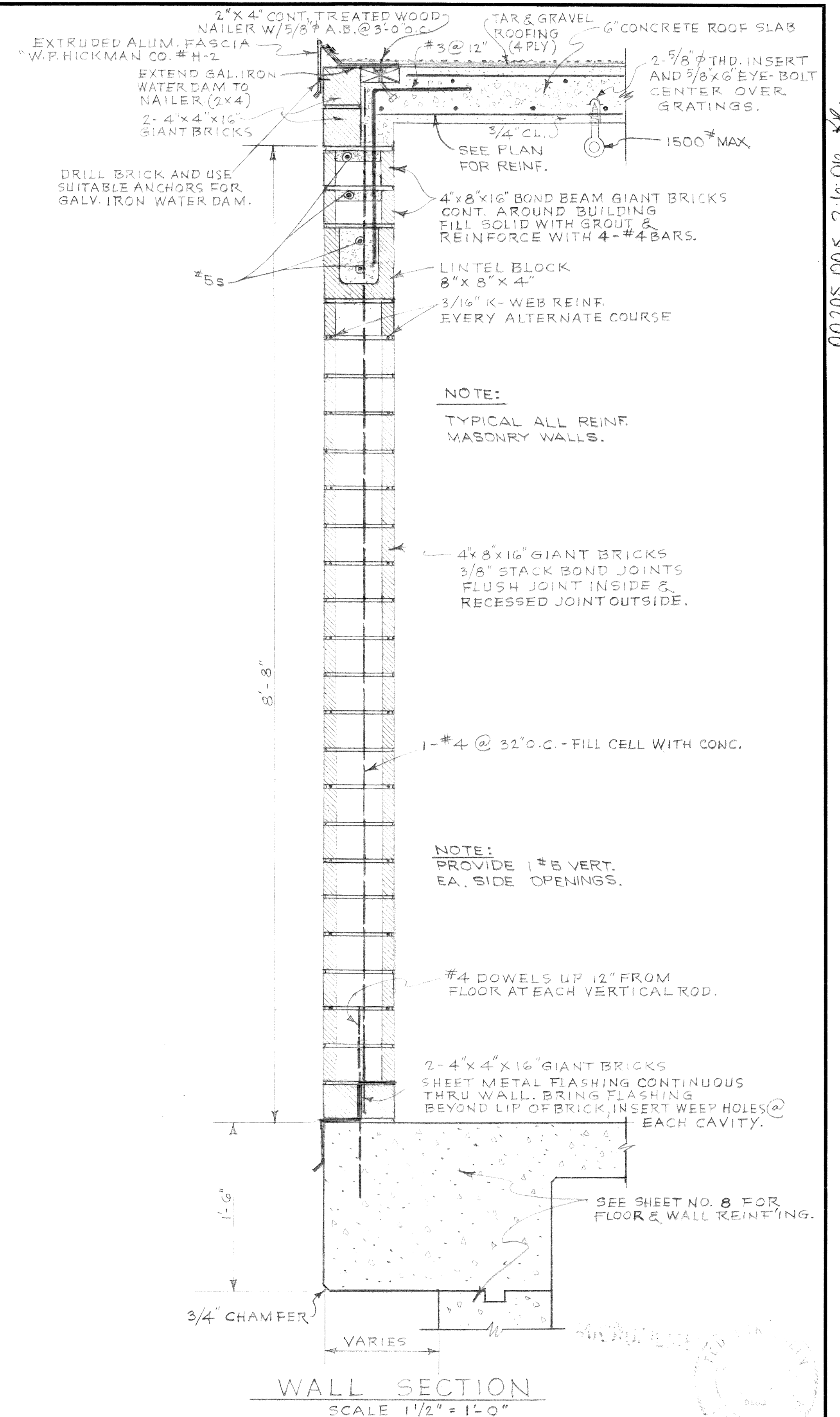
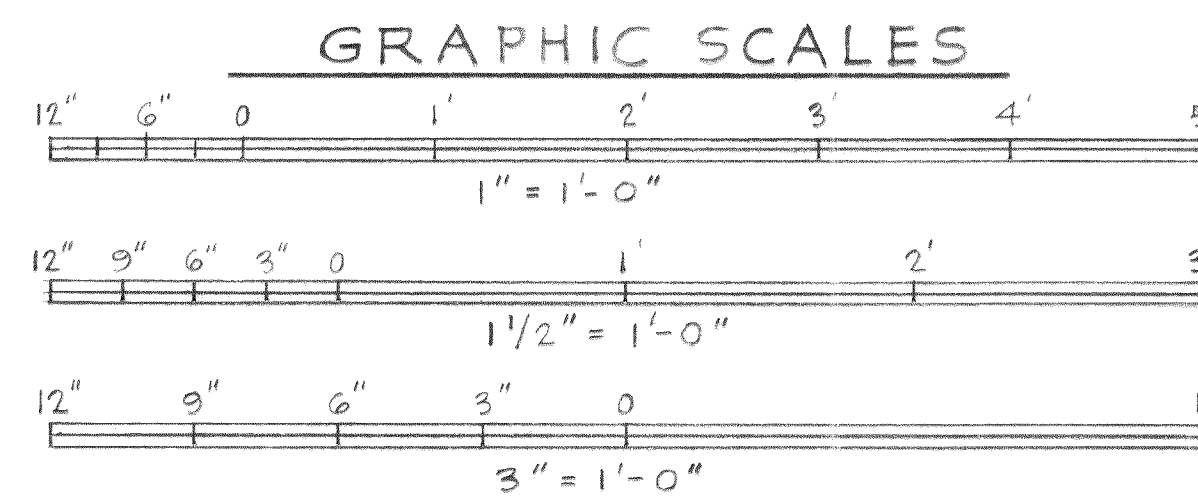
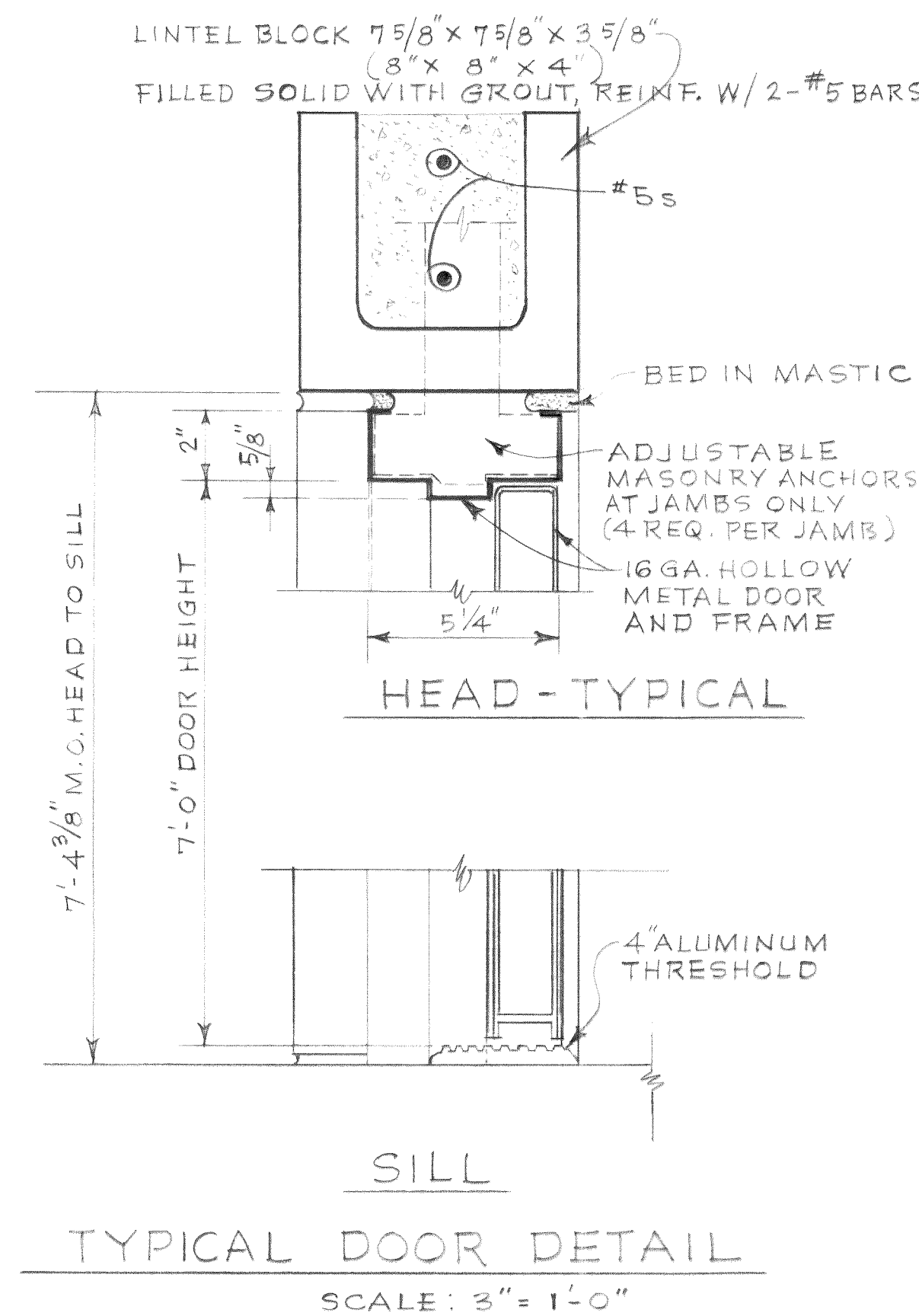




DETAIL
FIXED LOUVER, SHUTTER & EXHAUST
SCALE 1" = 1'-0"



DETAIL
FIXED & MOTOR OPERATING LOUVER
NO SCALE



DESIGNED J. S.	APPROVED <i>[Signature]</i>
DRAWN L. J. M.	SCALE AS SHOWN
CHECKED T. S.	DATE JAN. 1969
FILE 67-S-168.002	



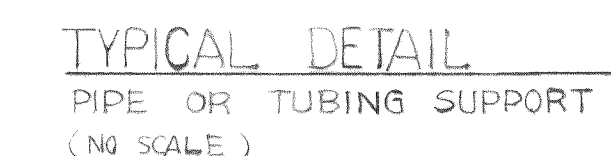
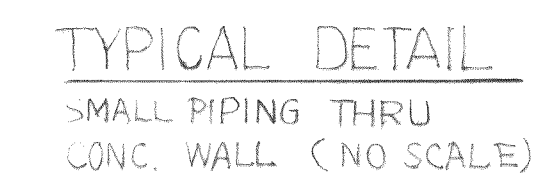
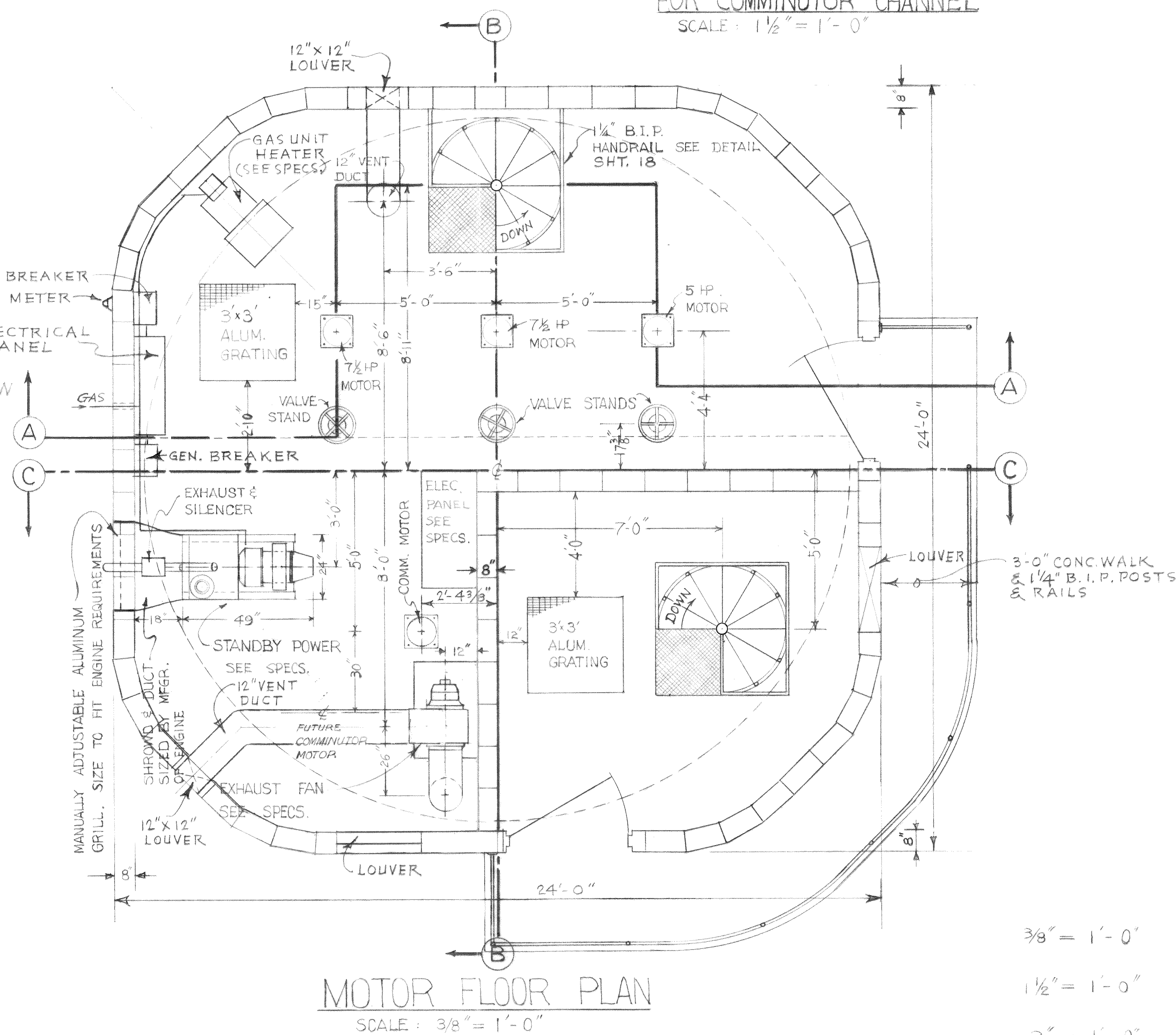
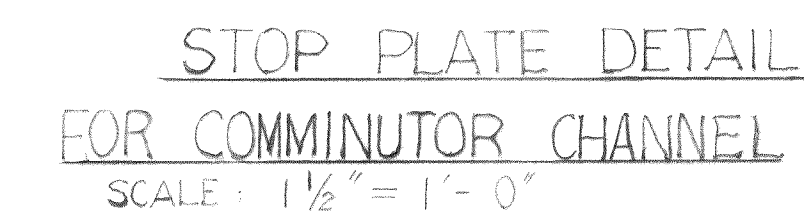
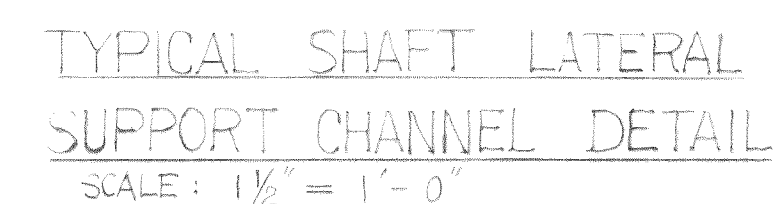
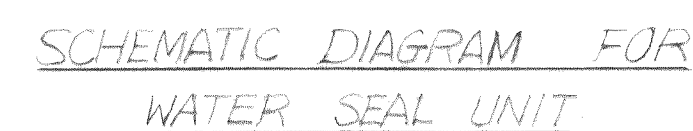
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PORTLAND, OREGON SEATTLE, WASHINGTON

TOWN OF FERNDAL, WASHINGTON
TREATMENT AND PUMPING FACILITIES
SCHEDULE I

PUMP STATION-ARCHITECTURAL
DETAILS

4
23

MICROFILMED Dwg # 67-S-168.002 -5



MICROFILMED

GRAPHIC SCALES



TOWN OF FERNDALE, WASHINGTON
TREATMENT AND PUMPING FACILITIES
SCHEDULE I

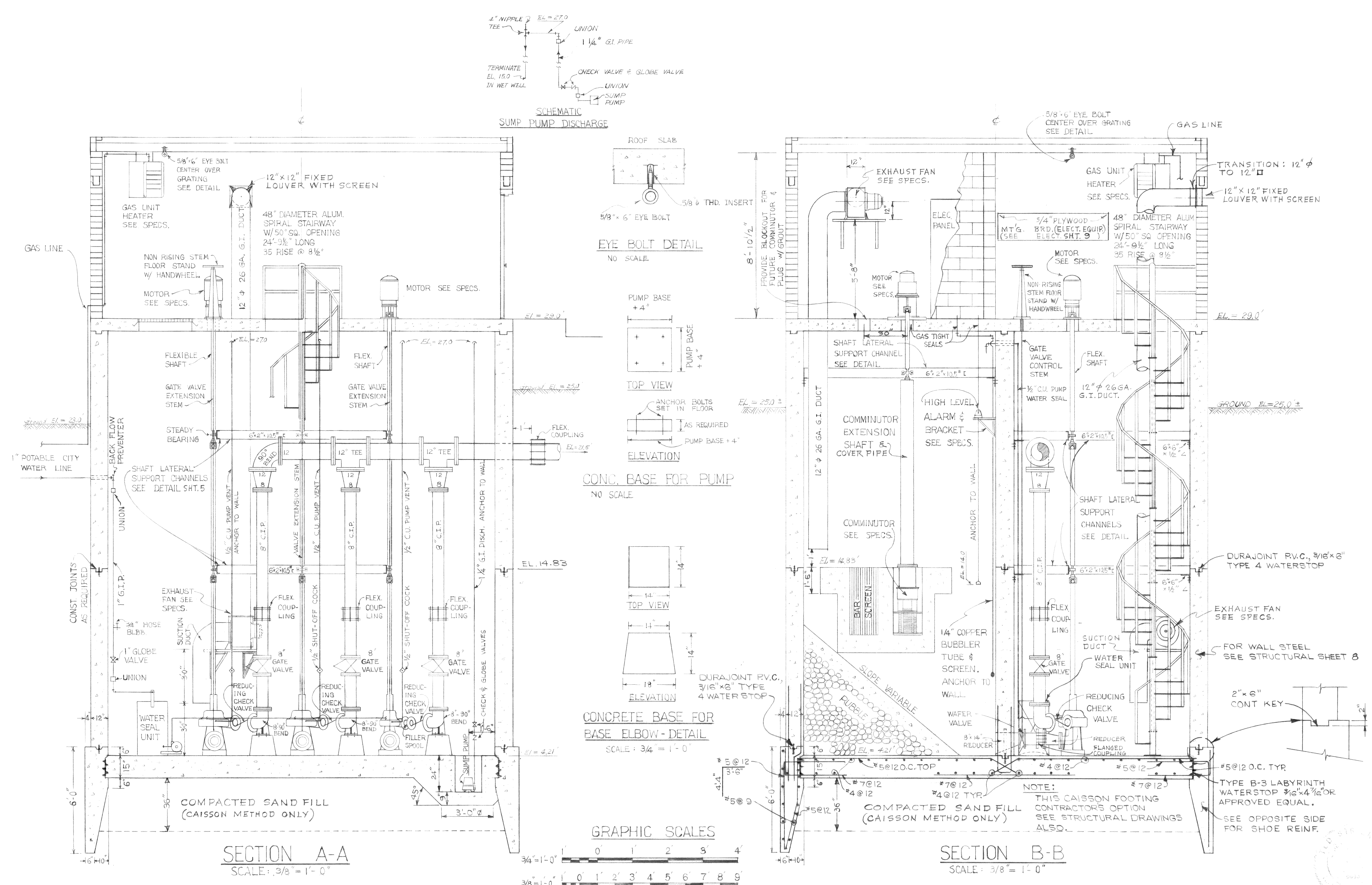
PUMP STATION-MECHANICAL PLANS AND DETAILS

5
23

Dwg # 67-S-168.002-6

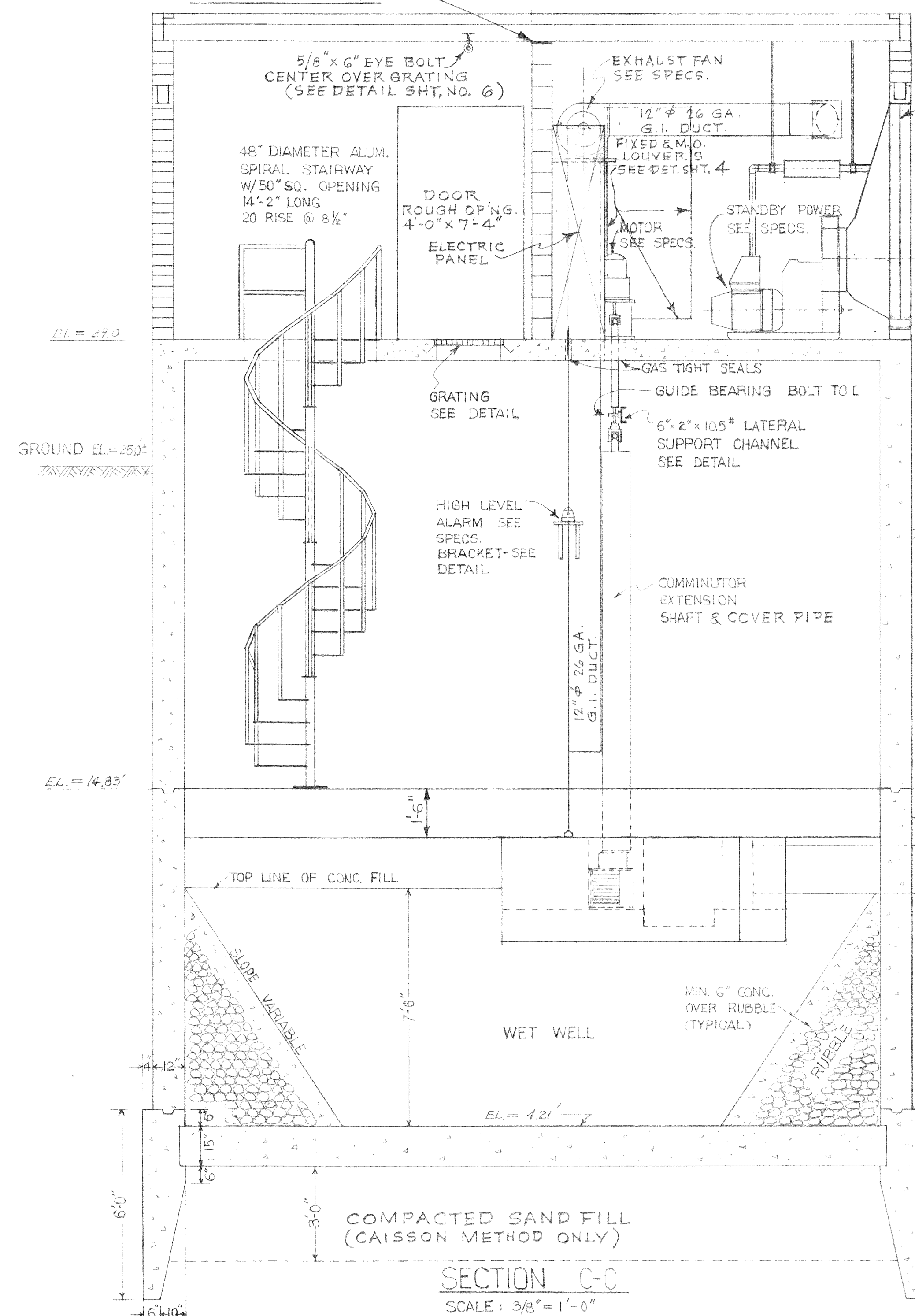
DETAILS, FISHING
47-5-168 002

00205.001 2-16-88

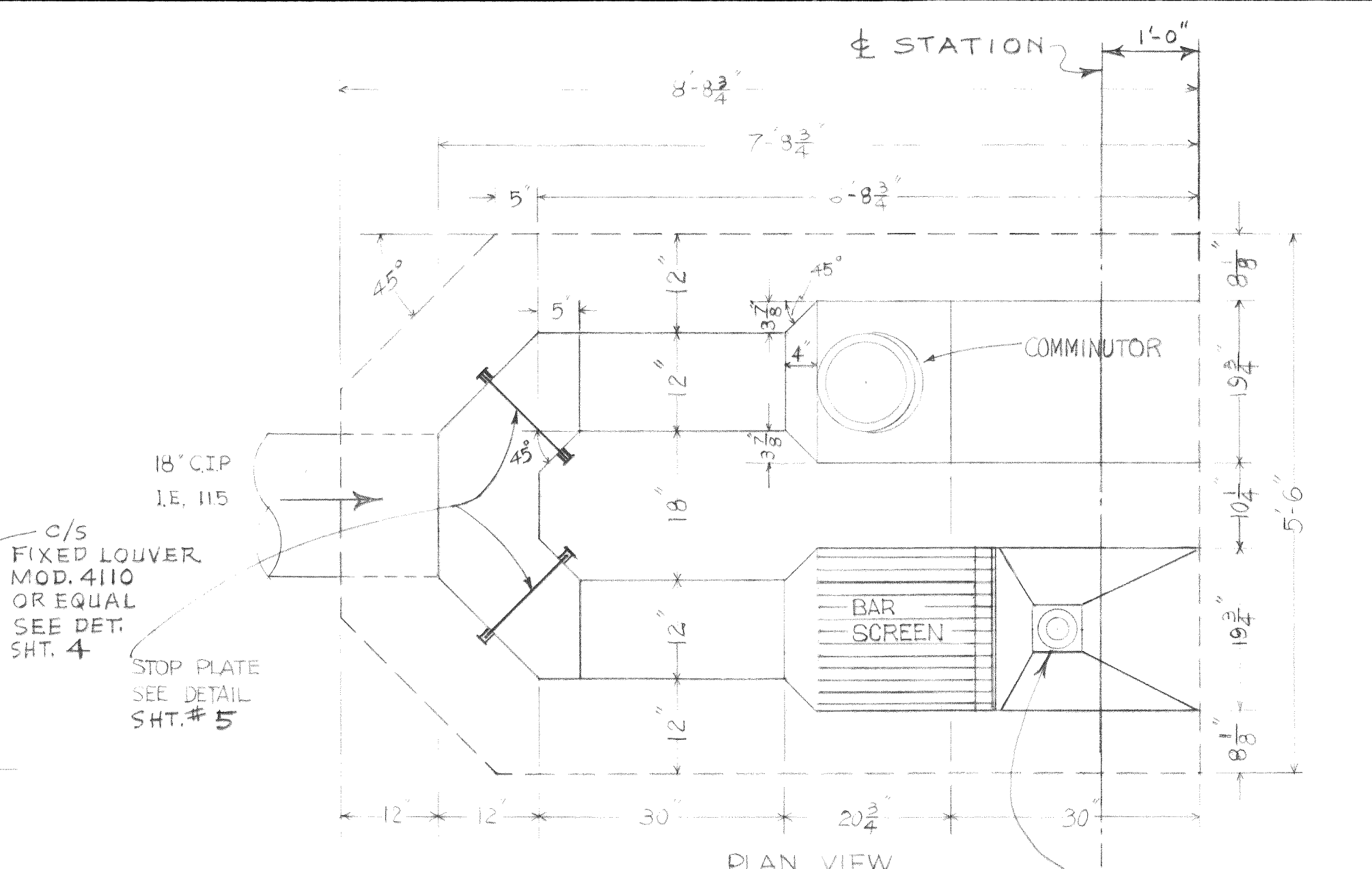


NOTE:

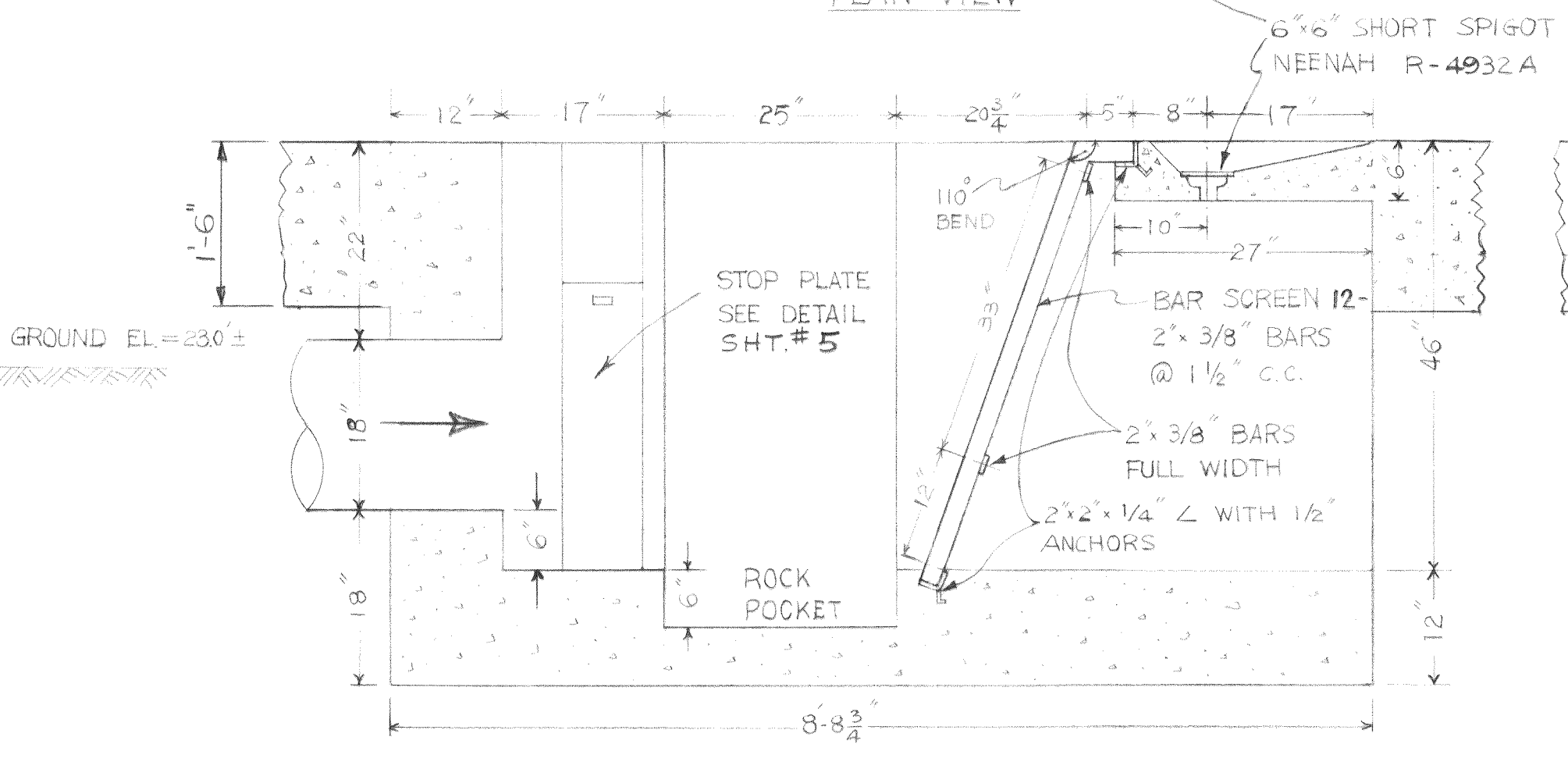
LEAVE 3/4" GAP BETWEEN UNDERSIDE OF ROOF SLAB AND TOP OF MASONRY. CLOSE WITH COMPRESSIBLE FILLER MATERIAL, THIS WALL ONLY!



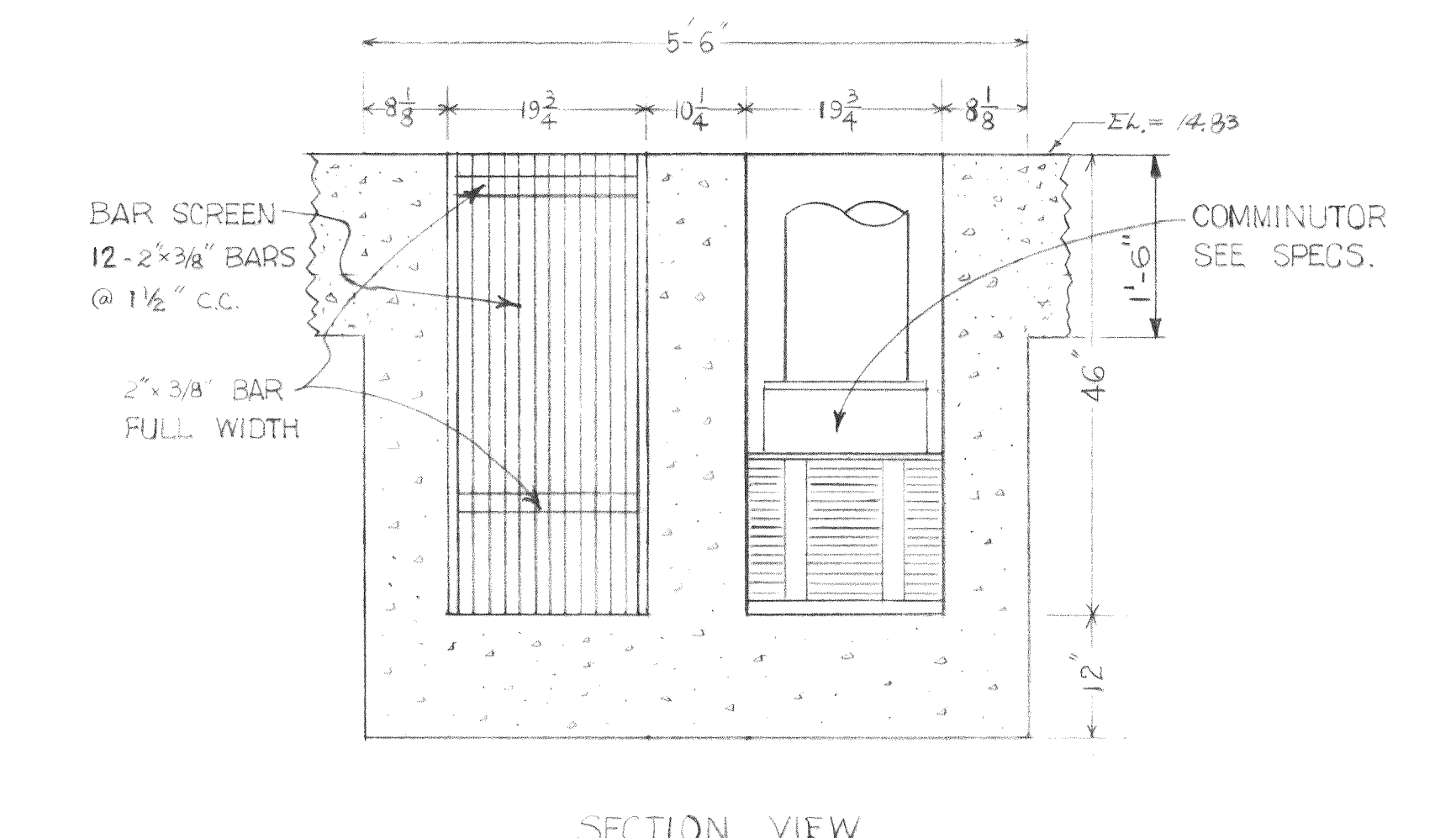
SECTION C-C
SCALE: 3/8" = 1'-0"



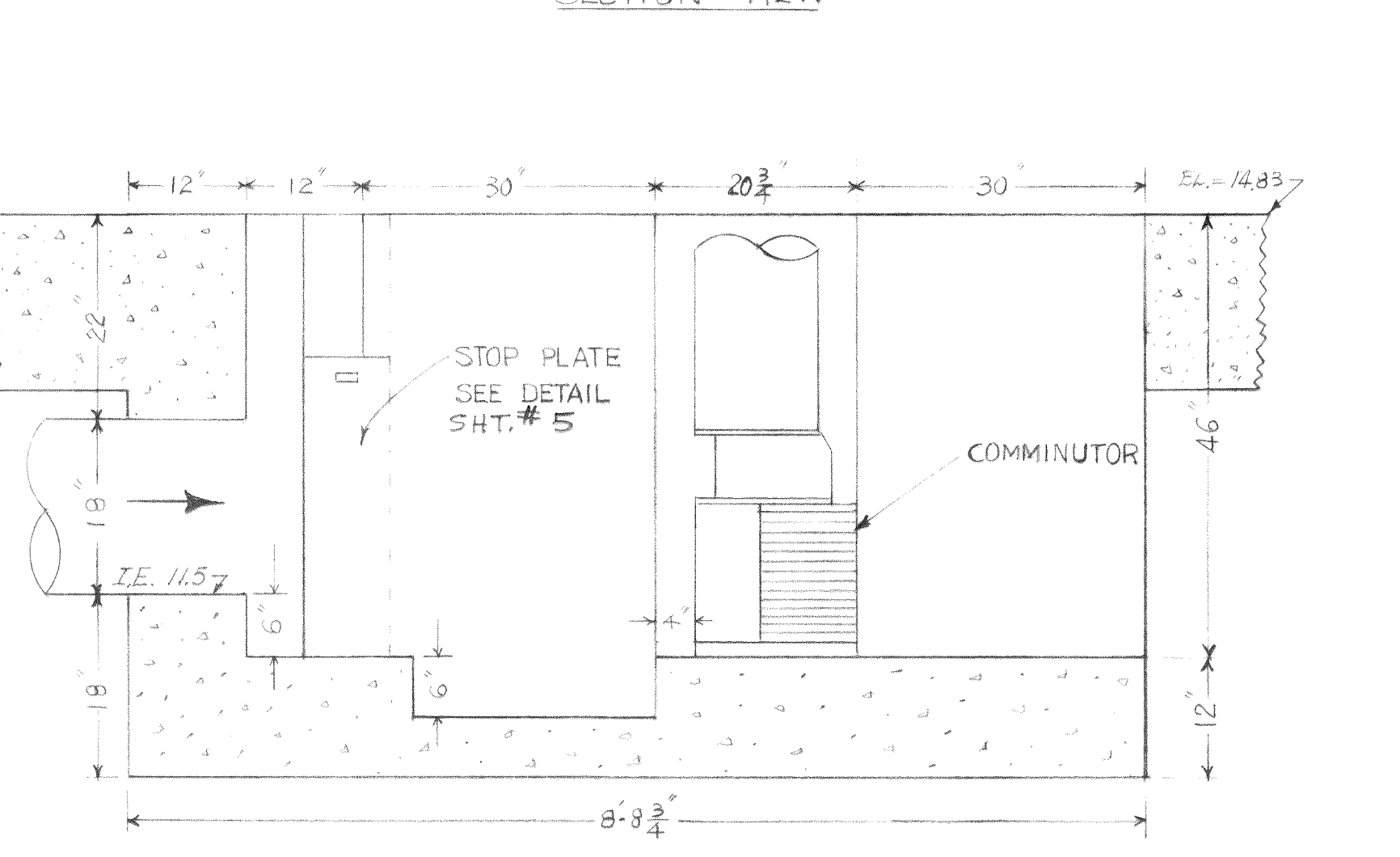
PLAN VIEW



SCREEN CHANNEL CROSS SECTION



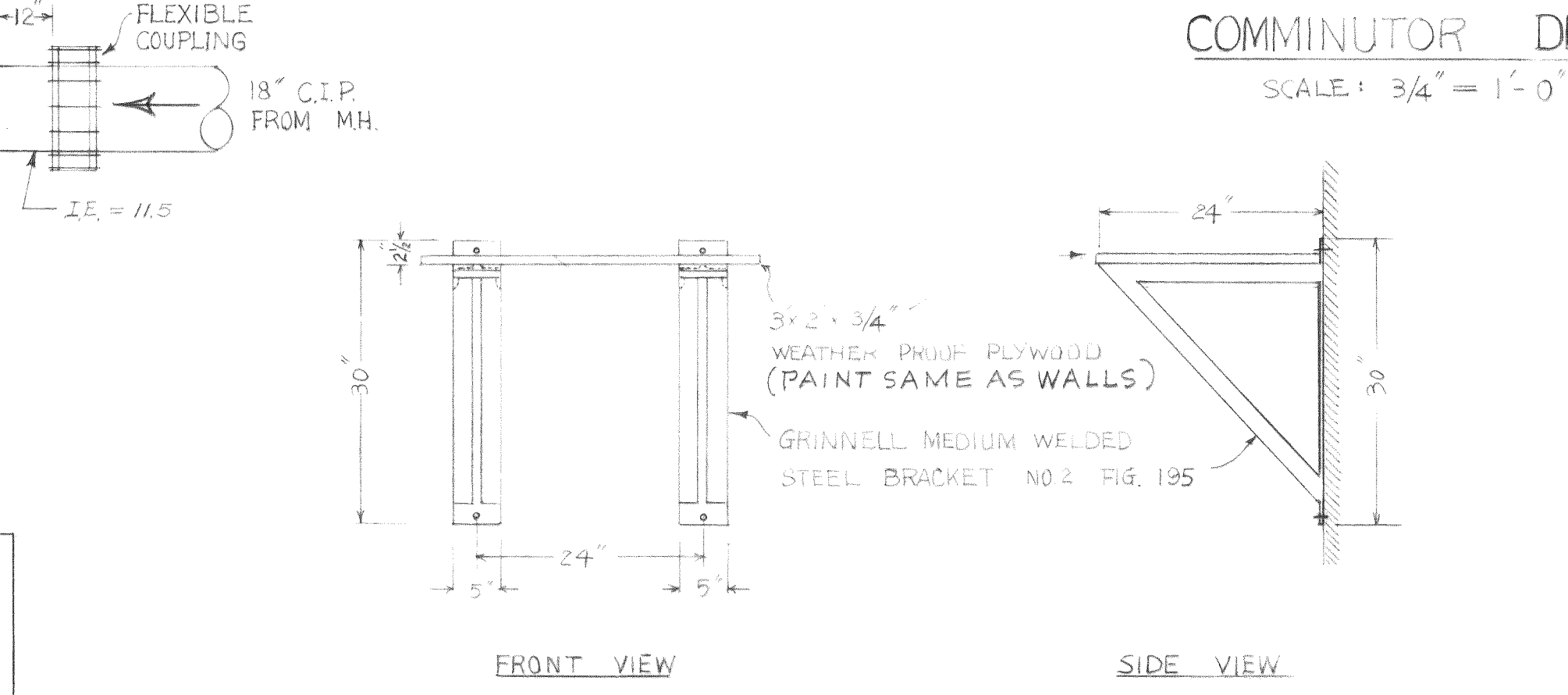
SECTION VIEW



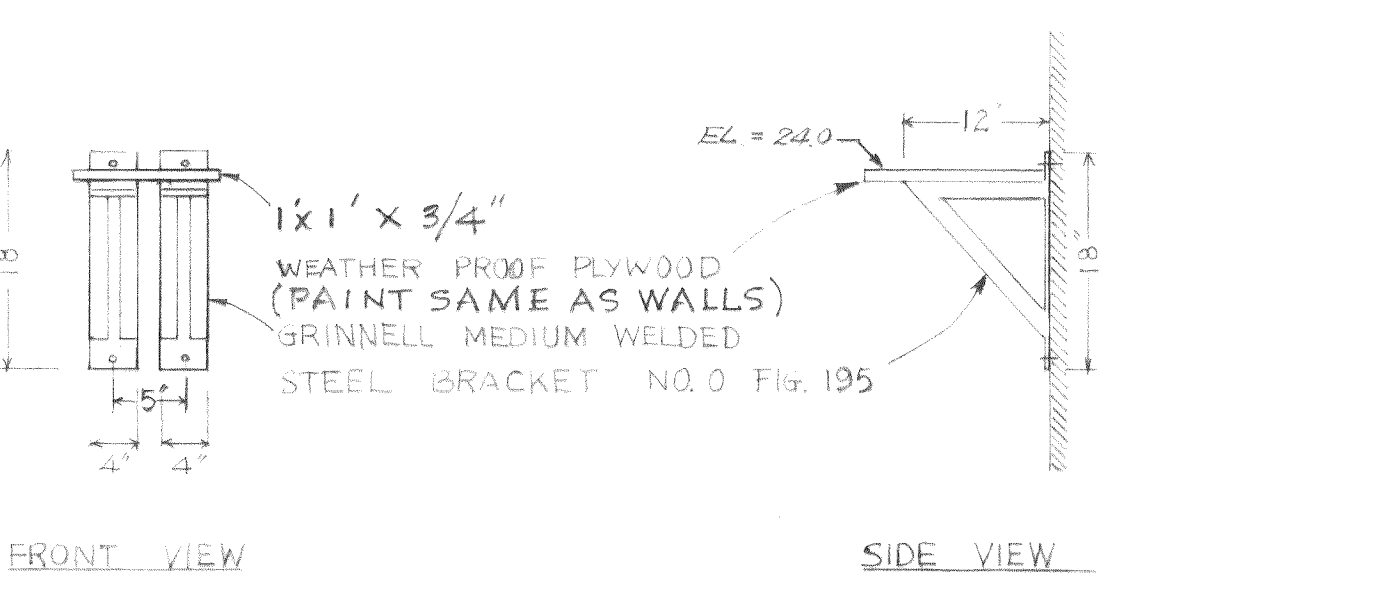
COMMINUTOR CHANNEL CROSS SECTION

COMMINUTOR DETAIL

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

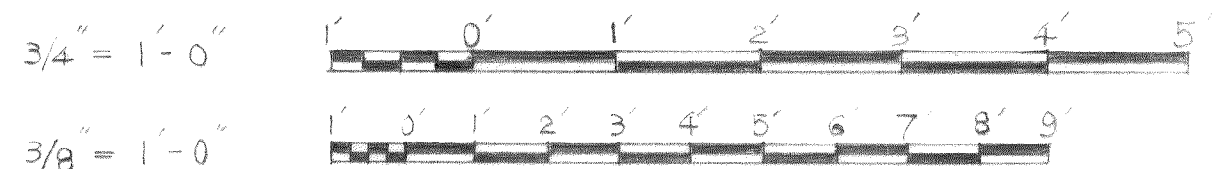


BRACKET DETAIL FOR EXHAUST FAN
SCALE: 3/4" = 1'-0"



BRACKET DETAIL FOR HIGH LEVEL ALARM
SCALE: 3/4" = 1'-0"

GRAPHIC SCALE



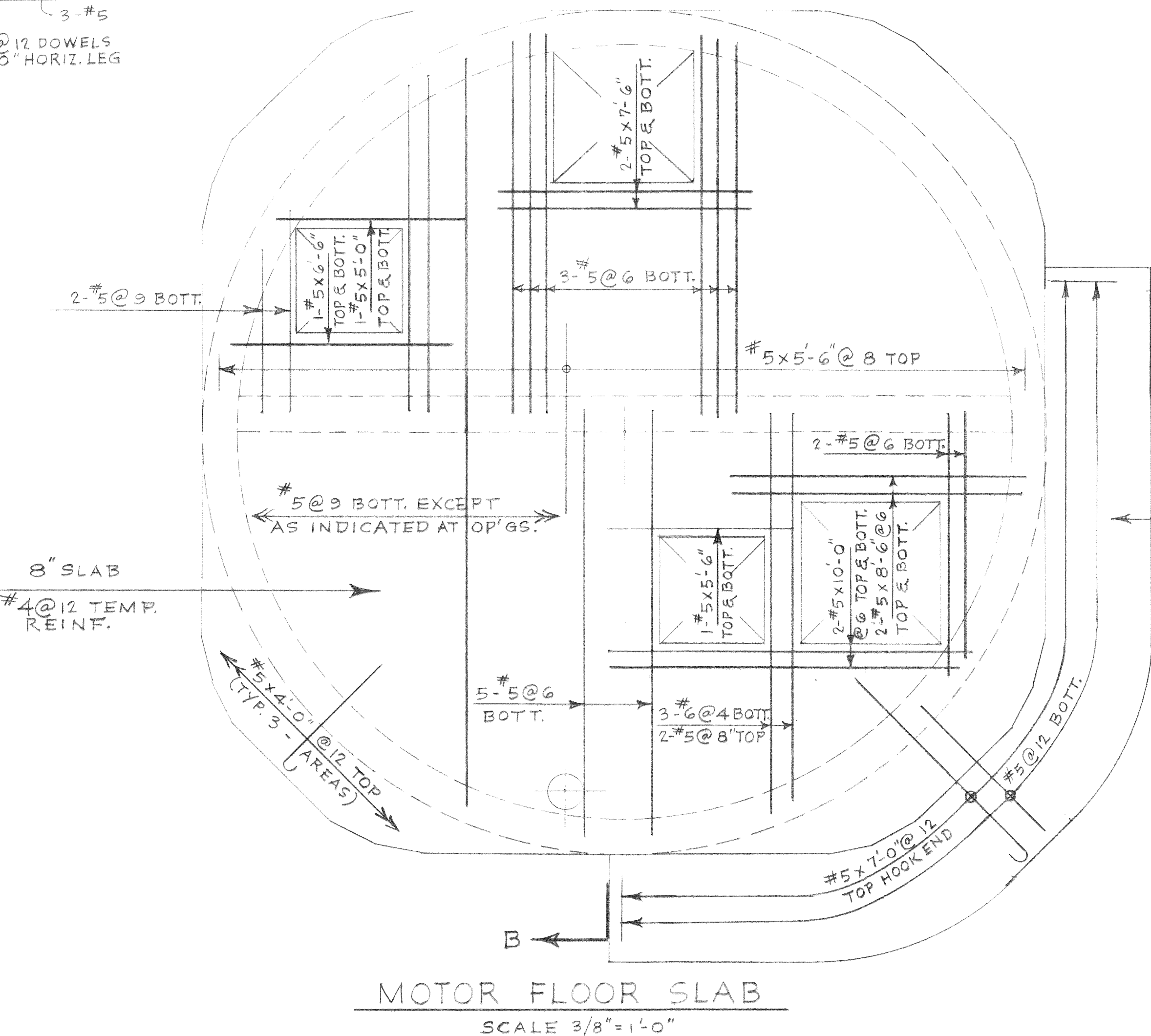
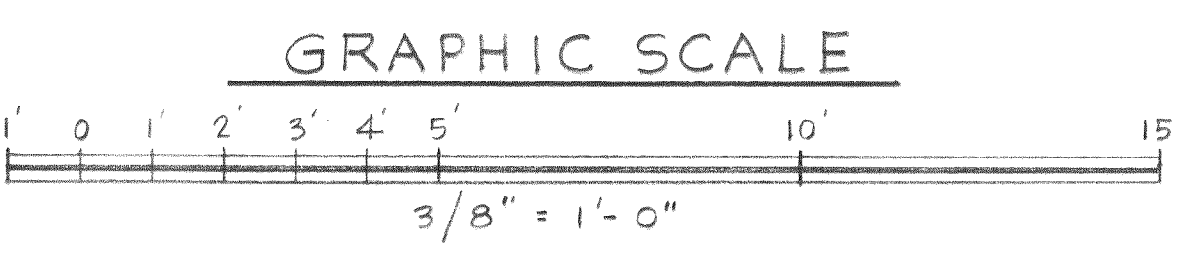
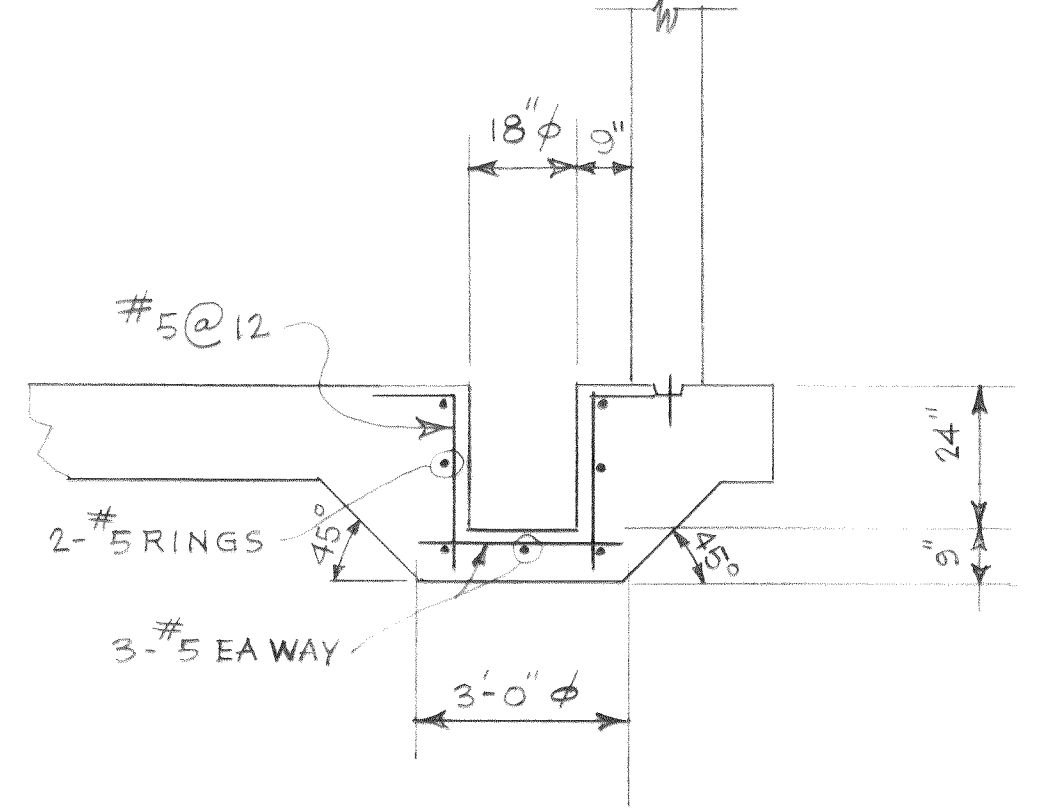
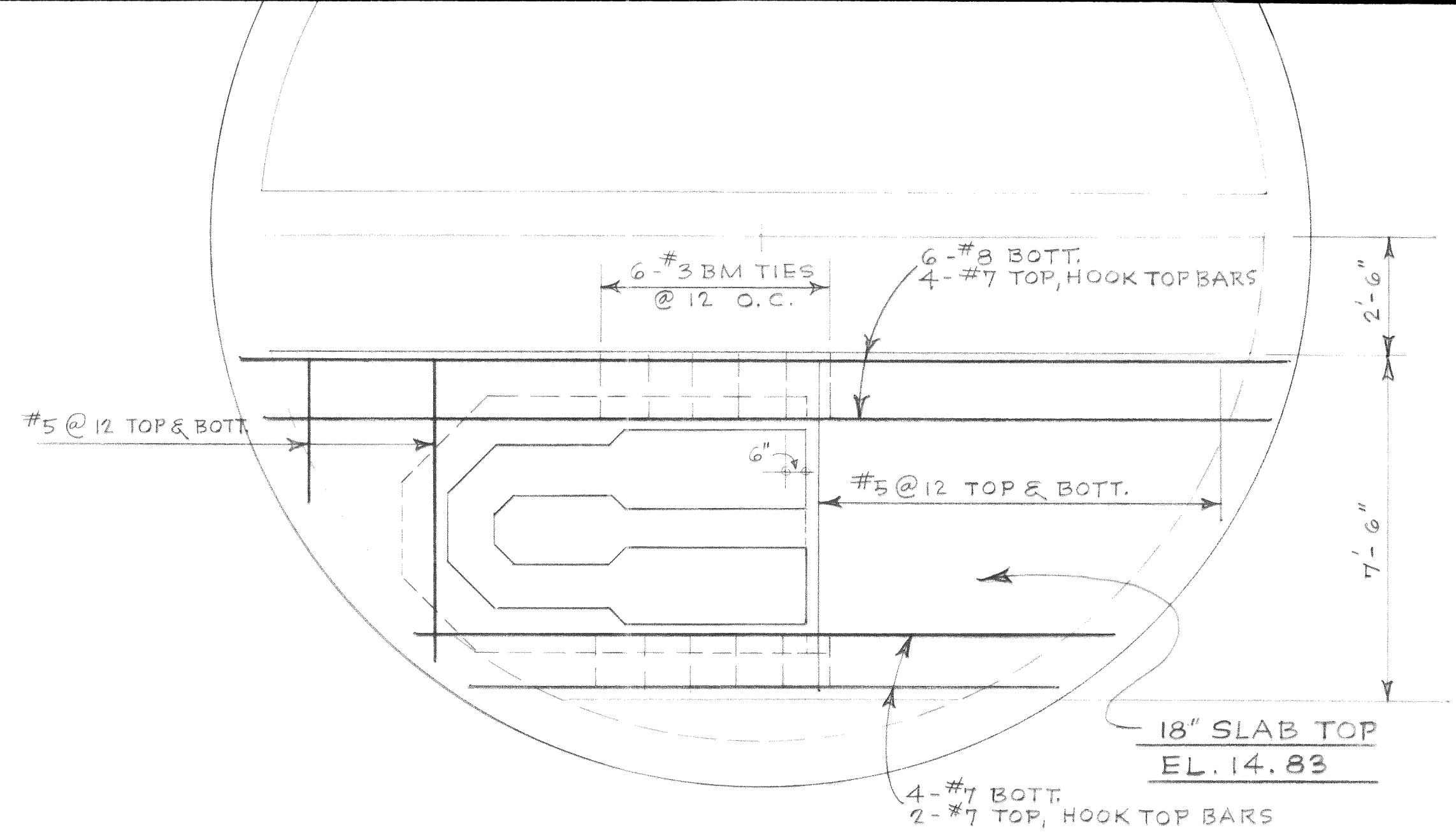
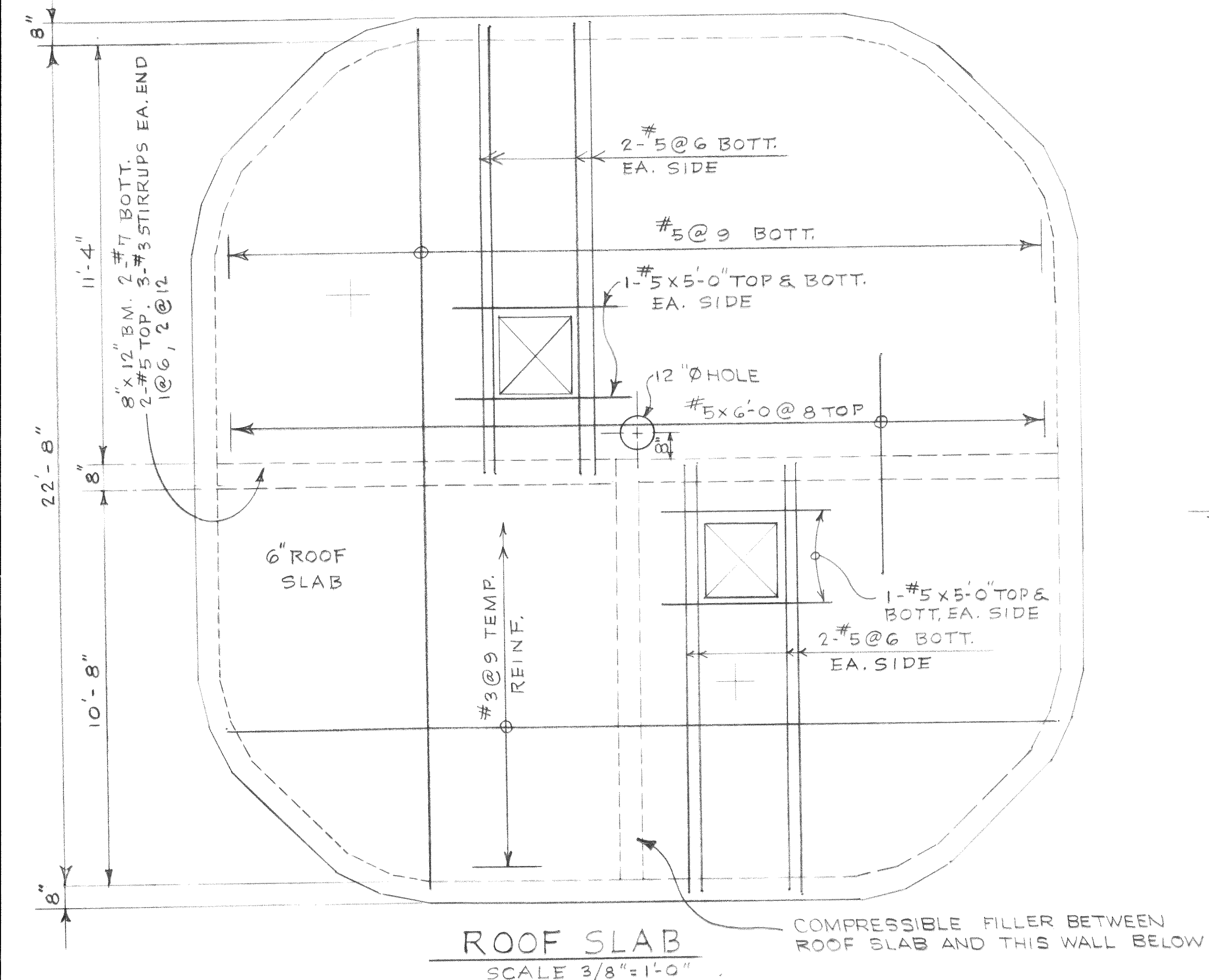
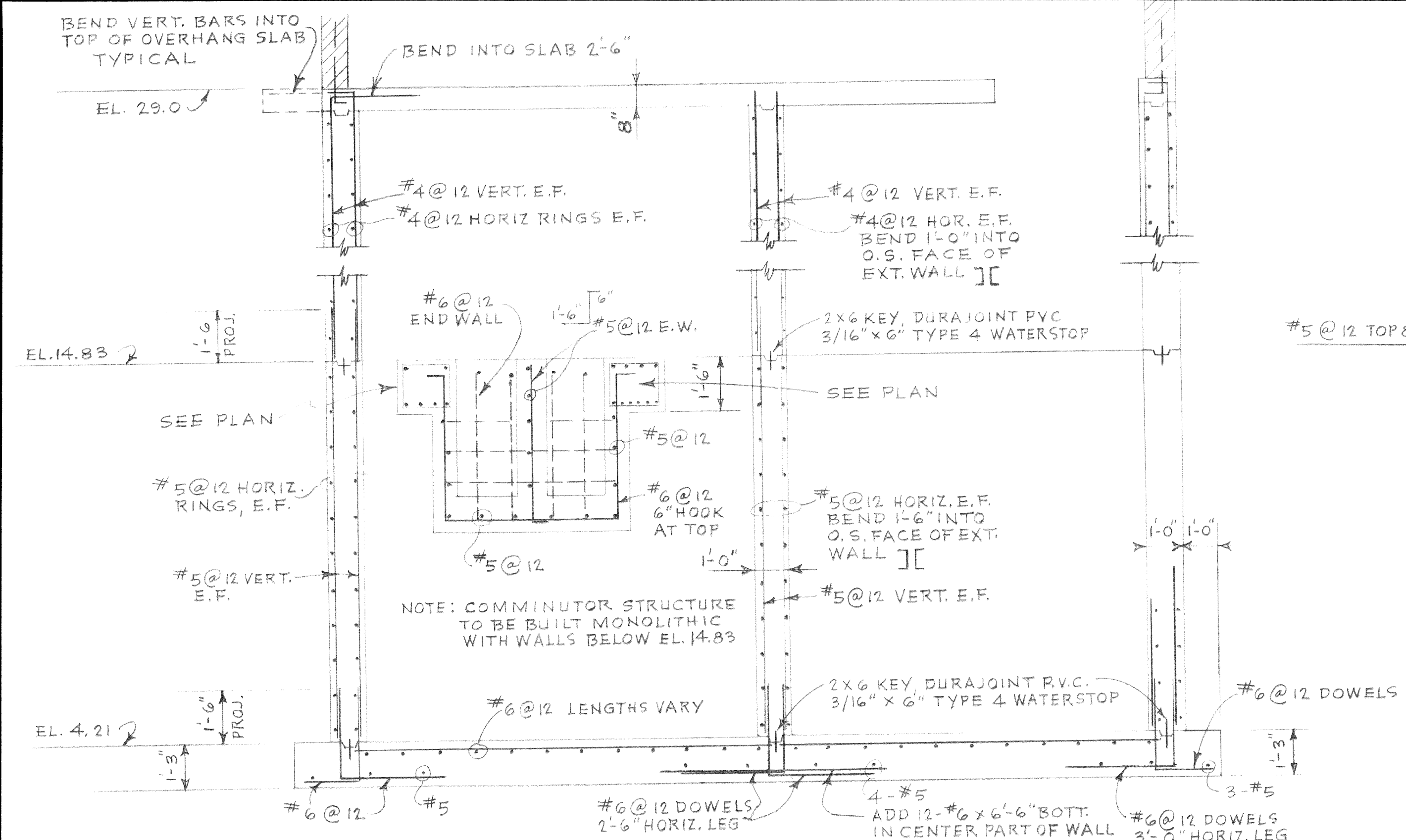
DESIGNED T.S.	APPROVED <i>XLR Murray</i>
DRAWN H.T.H.	SCALE AS SHOWN
CHECKED T.S.	DATE JAN. 1969
FILE 67-S-168.002	

Stevens, Thompson & Runyan, Inc.
Engineers/Planners
PORTLAND, OREGON SEATTLE, WASHINGTON

TOWN OF FERDALE, WASHINGTON
TREATMENT AND PUMPING FACILITIES
SCHEDULE I

PUMP STATION-MECHANICAL
SECTIONS AND DETAILS
MICROFILMED

00205.009 2-16-66 RL



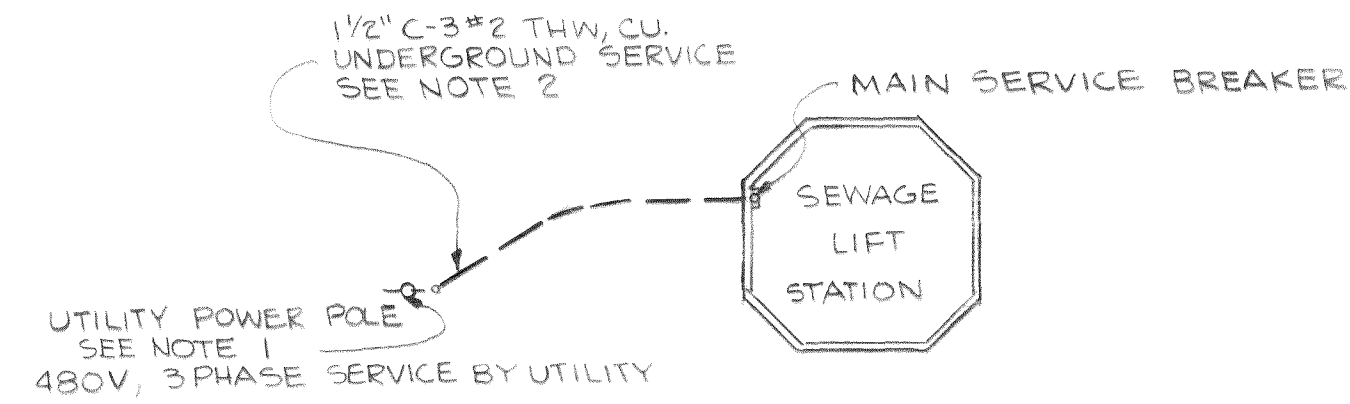
DESIGNED J.S.	APPROVED <i>K.R. Dewey</i>
DRAWN L.J.M.	SCALE AS SHOWN
DATE	DATE JAN. 1969
NO.	
REVISION	
BY	
CHECKED T.S.	FILE 67-S-168.002

ST
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Engineers/Planners
PORTLAND, OREGON SEATTLE, WASHINGTON

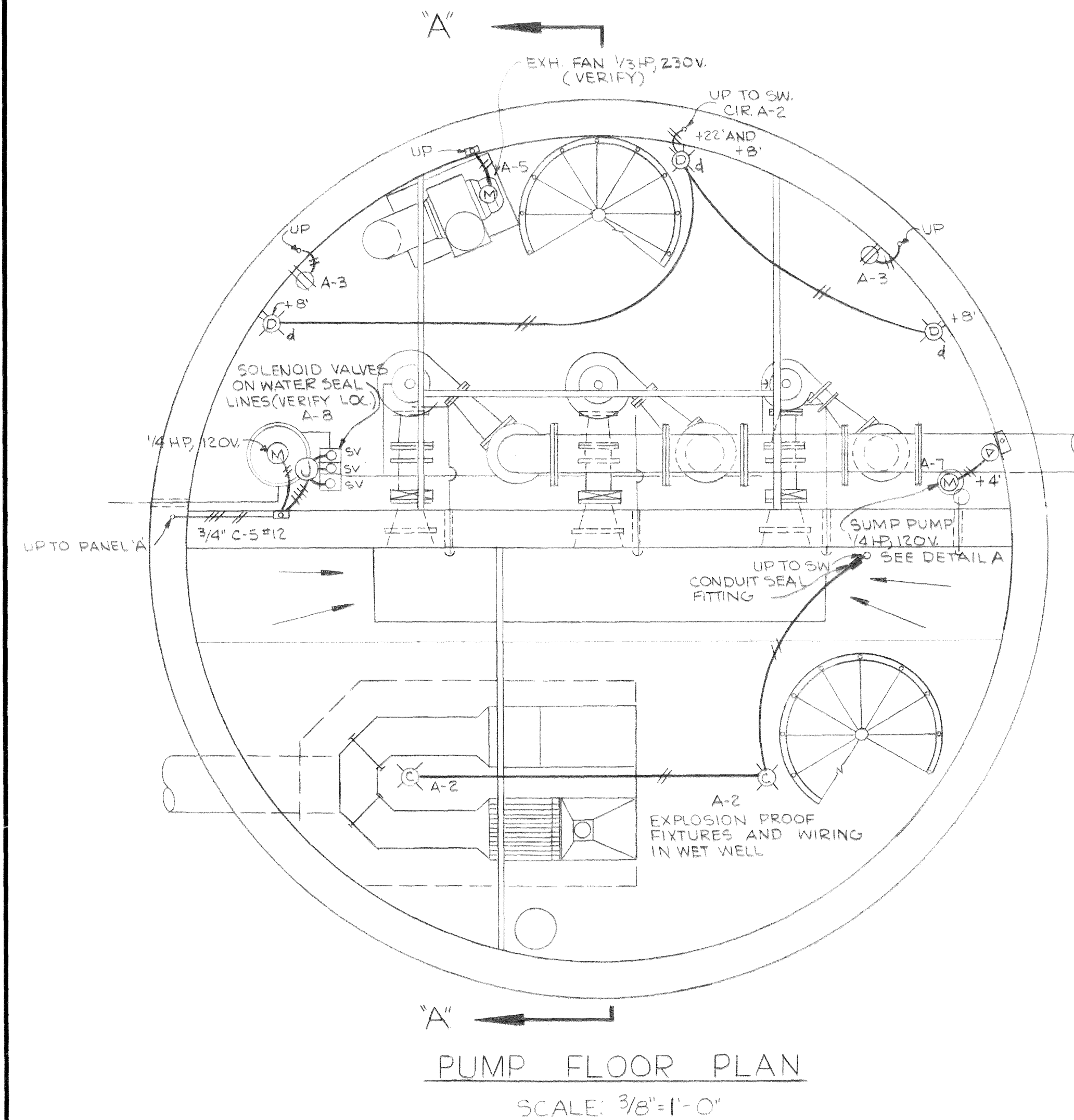
TOWN OF FERNDALE, WASHINGTON
TREATMENT AND PUMPING FACILITIES
SCHEDULE I

PUMP STATION-STRUCTURAL
PLANS AND SECTIONS

MICROFILMED Dwg # 67-S-168.002-9



PLOT PLAN
SCALE: 1"=20'



PUMP FLOOR PLAN
SCALE: 3/8"=1'-0'

PANEL A				
CIR. NO.	BREAKER AMP.	POLES	LOAD (WATTS)	SERVES
1	20	SP	1200	LIGHTS
2	20	SP	1200	LIGHTS
3	20	SP	1500	RECEPTACLES
4	20	2P	1/3HP	EXH. FAN-WET WELL
5	20	2P	1/3HP	EXH. FAN-PUMP RM.
6	15	SP	-	AIR COMPRESSOR
7	20	SP	1/4HP	SUMP PUMP
8	20	SP	1/4HP	WATER SEAL PUMP AND SOL. VALVE
9	15	SP	-	BATTERY CHARGER
10	15	SP	-	MOTOR CONTROL BUS
11	15	SP	-	HIGH WATER ALARM LIGHT
12	20	SP	-	MOTORIZED LOUVER-INTAKE AIR
13	20	SP	-	SPARE
14	20	SP	-	SPARE
15	20	SP	-	SPARE
16-18	20	SP	-	SPARE

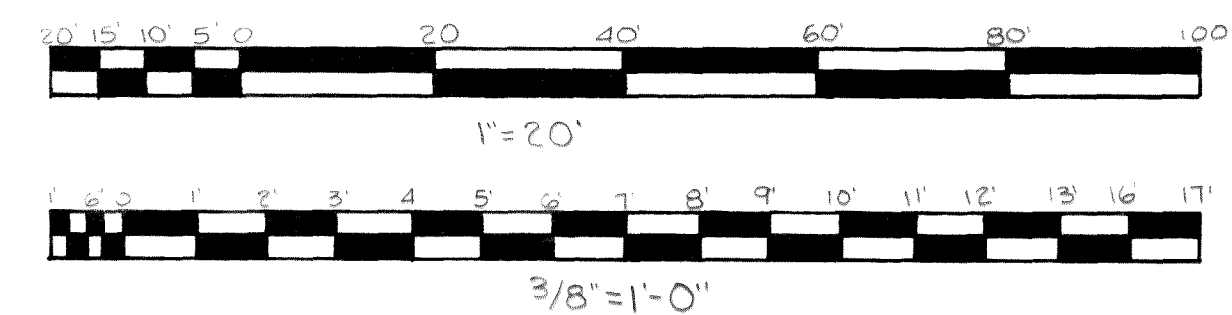
LEGEND

- CONDUIT RUN CONCEALED IN WALL OR CEILING
- CONDUIT RUN CONCEALED IN FLOOR
- CONDUIT RUN EXPOSED-WATER-TIGHT (W/T)
- INCANDESCENT LIGHT FIXTURE
- INCANDESCENT LIGHT FIXTURE-WALL BRACKET
- SINGLE POLE SWITCH (SEE SPEC.)
- DUPLEX CONVENIENCE OUTLET
- (M) MOTOR SIZE AS NOTED
- WR WEATHER-PROOF
- TM RUNNING TIME METER-GE MODEL #50236302AAAA1 OR APPROVED EQUAL
- (J) JUNCTION BOX
- (D) SPECIAL RECEPTICAL, AS NOTED

GENERAL NOTES

- CONTRACTOR SHALL INCLUDE IN THE BASE BID PRICE ALL COSTS IN CONJUNCTION WITH SERVICE POLE, METERING, AND SHALL INSTALL NECESSARY CONDUITS, FITTINGS, WEATHER HEADS BOTH FOR POWER AND TELEPHONE SERVICE AS REQUIRED.
- ALL BURIED CONDUITS SHALL HAVE THE JOINTS WRAPPED WITH TWO LAYERS ON HALF LAP OF SCOTCHRAPE#50TAPE, TAPE 12" EACH SIDE OF JOINT AND PRIME PIPE BEFORE APPLYING TAPE.
- CONNECT ALL MOTORS, SOLENOID VALVES, LIMIT SWITCHES, HIGH-WATER ALARM VIGITROL UNIT, HEATERS, ETC. WITH WATERTIGHT (W/T) FLEXIBLE CONDUITS.
- FRACTIONAL HORSE POWER MOTOR TO BE PROTECTED WITH INTERNAL OVERLOAD RELAYS WITH EXTERNAL RESET.
- VERIFY LOCATION OF ALL MECHANICAL EQUIPMENT BEFORE ROUGH-IN.

GRAPHIC SCALES



MOTOR FLOOR PLAN
SCALE: 3/8"=1'-0"

DESIGNED J.L.	APPROVED <i>J. R. Runyan</i>
DRAWN L.M.R.	SCALE AS SHOWN DATE JAN. 1969
CHECKED T.S.	FILE 67-S-168.002



Stevens, Thompson & Runyan, Inc.
Engineers/Planners
PORTLAND, OREGON SEATTLE, WASHINGTON

TOWN OF FERNDAL, WASHINGTON
TREATMENT AND PUMPING FACILITIES
SCHEDULE I

PUMPING STATION
ELECTRICAL
LIGHTING AND POWER PLAN

9
23

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Draw # 67-S-168.002-10



	LT. FIXT.	200W
	OUTLET	15A @ 125V
	SWITCH	15A @ 120V
	RECEPT	15A @ 125V
	LT. FIXT	3-40W

3/4" C - 2 #12 CRT. A-T

SINGLE RECEPT W/TWIST LOCK PLUG

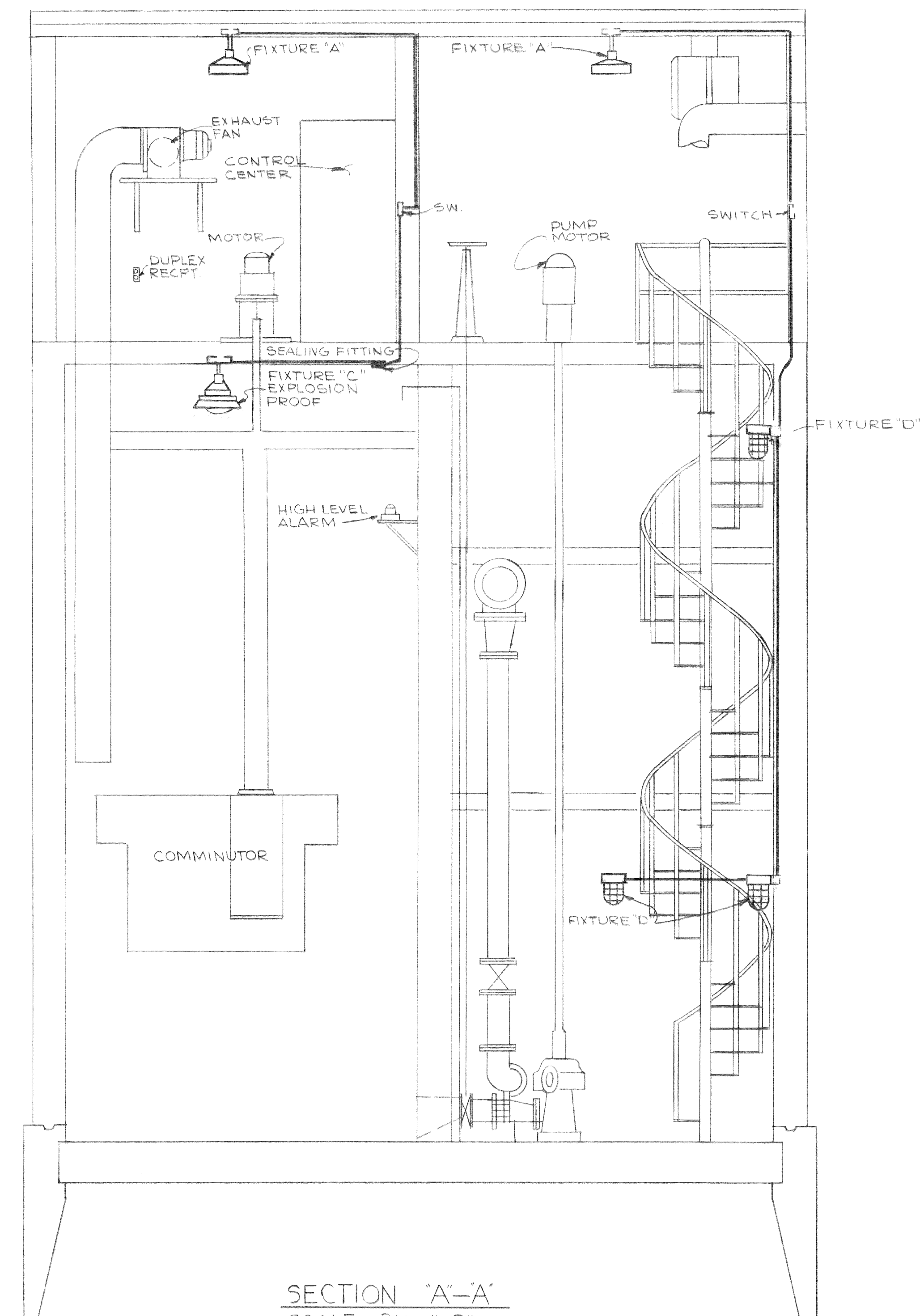
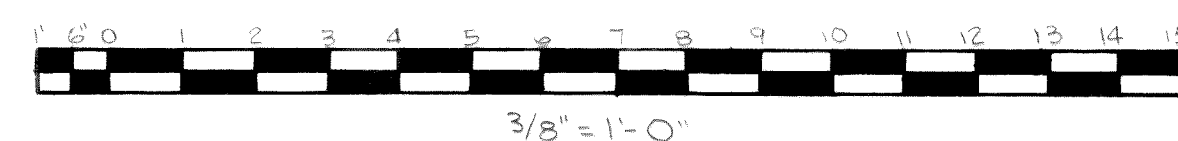
3/4" ST. CABLE

SUMP PUMP 1/4 HP, 120V

DETAIL A

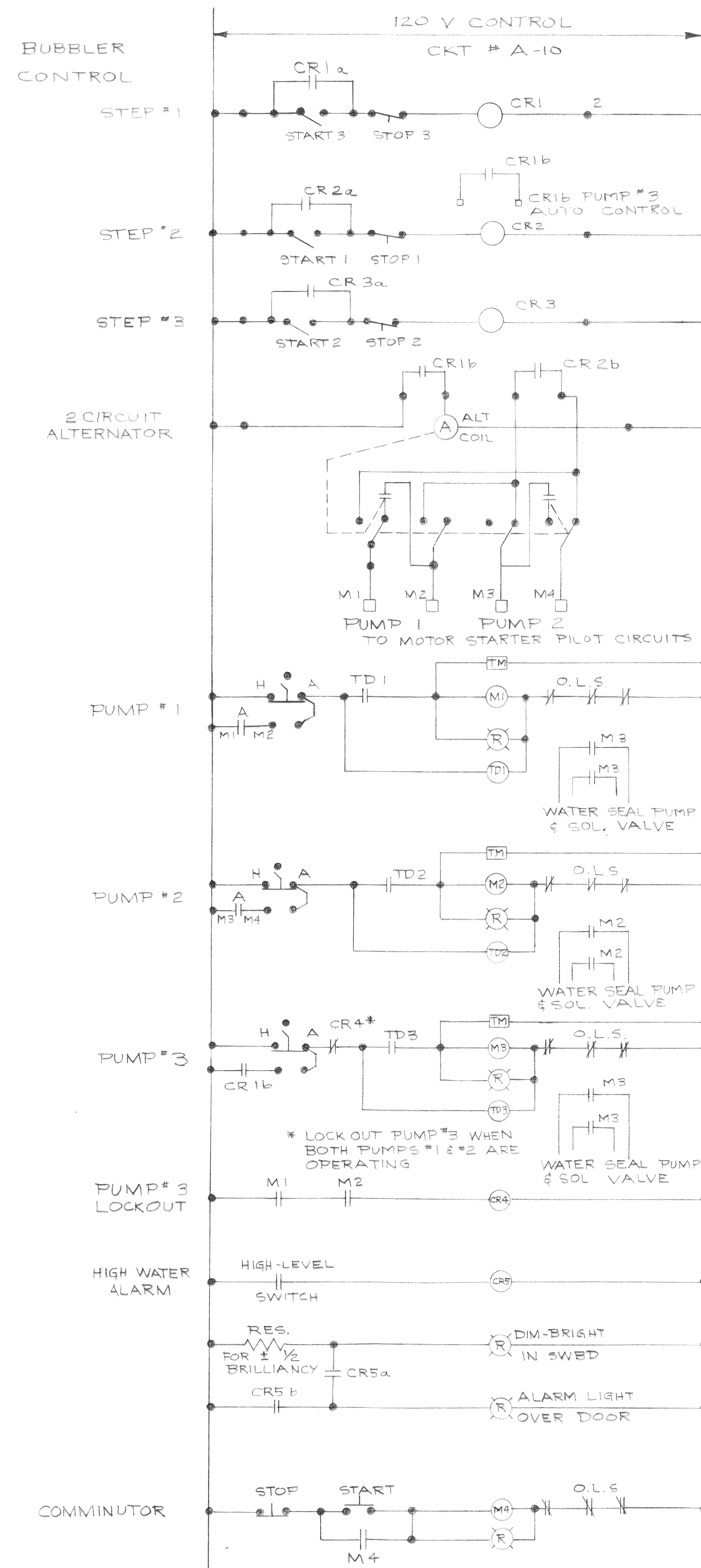
DETAIL A
SUMP PUMP
NO SCALE

GRAPHIC SCALE

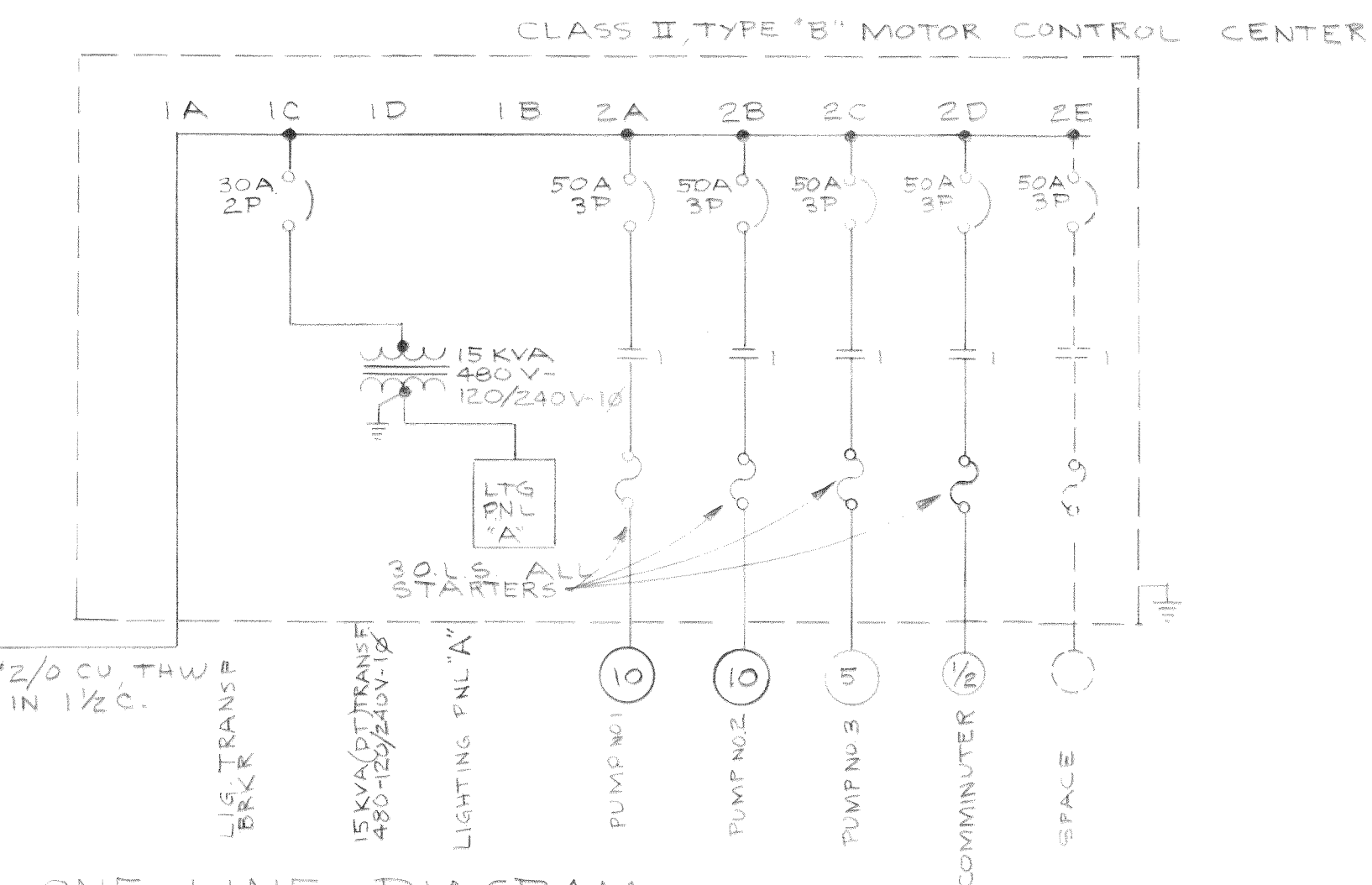
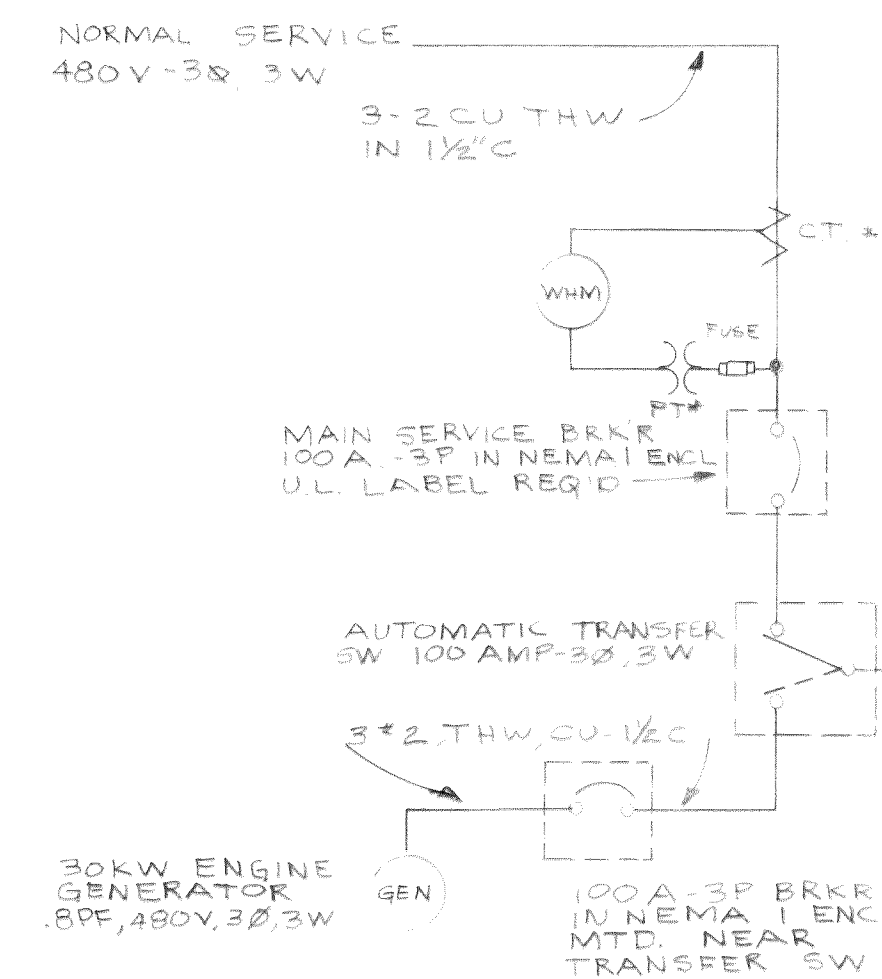


SECTION "A"—"A"

SCALE 3/8"=1'-0"

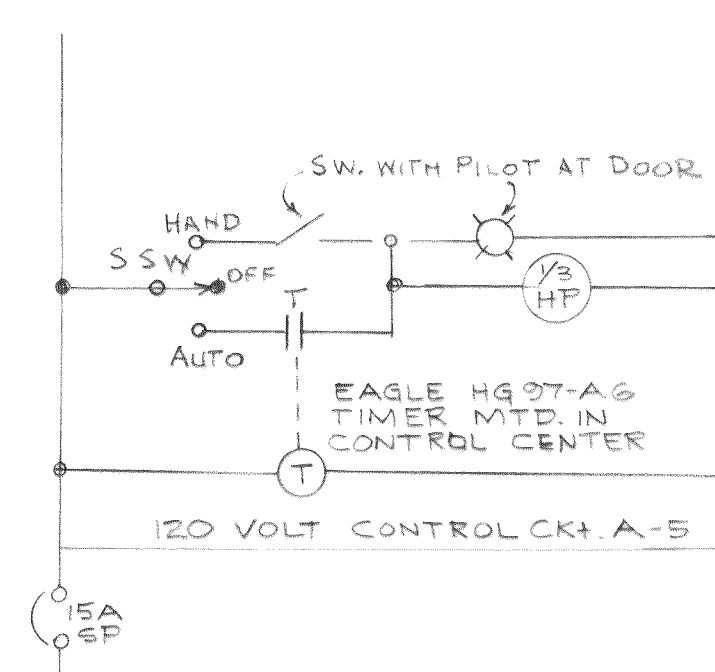
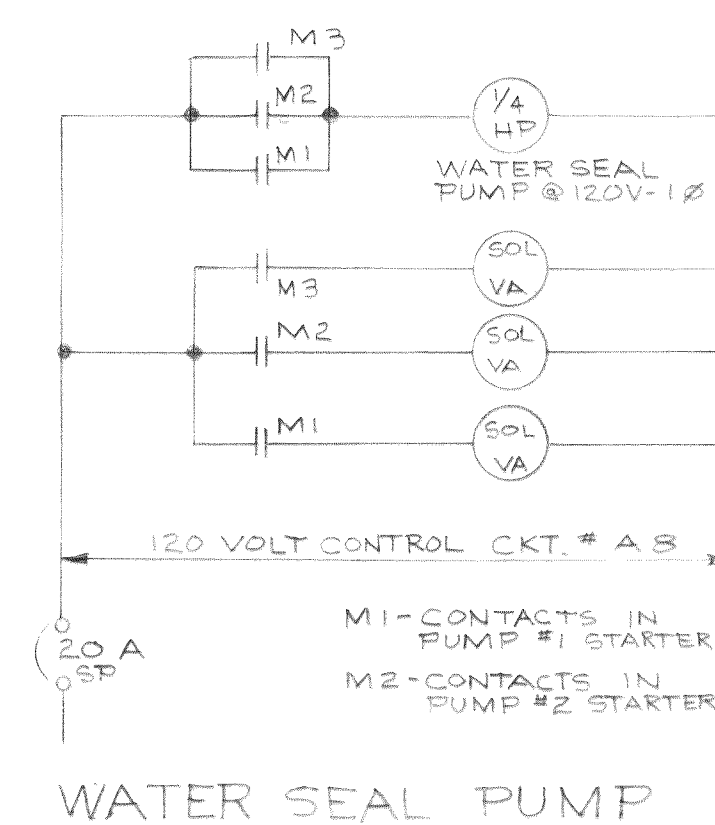


CONTROL SCHEMATIC



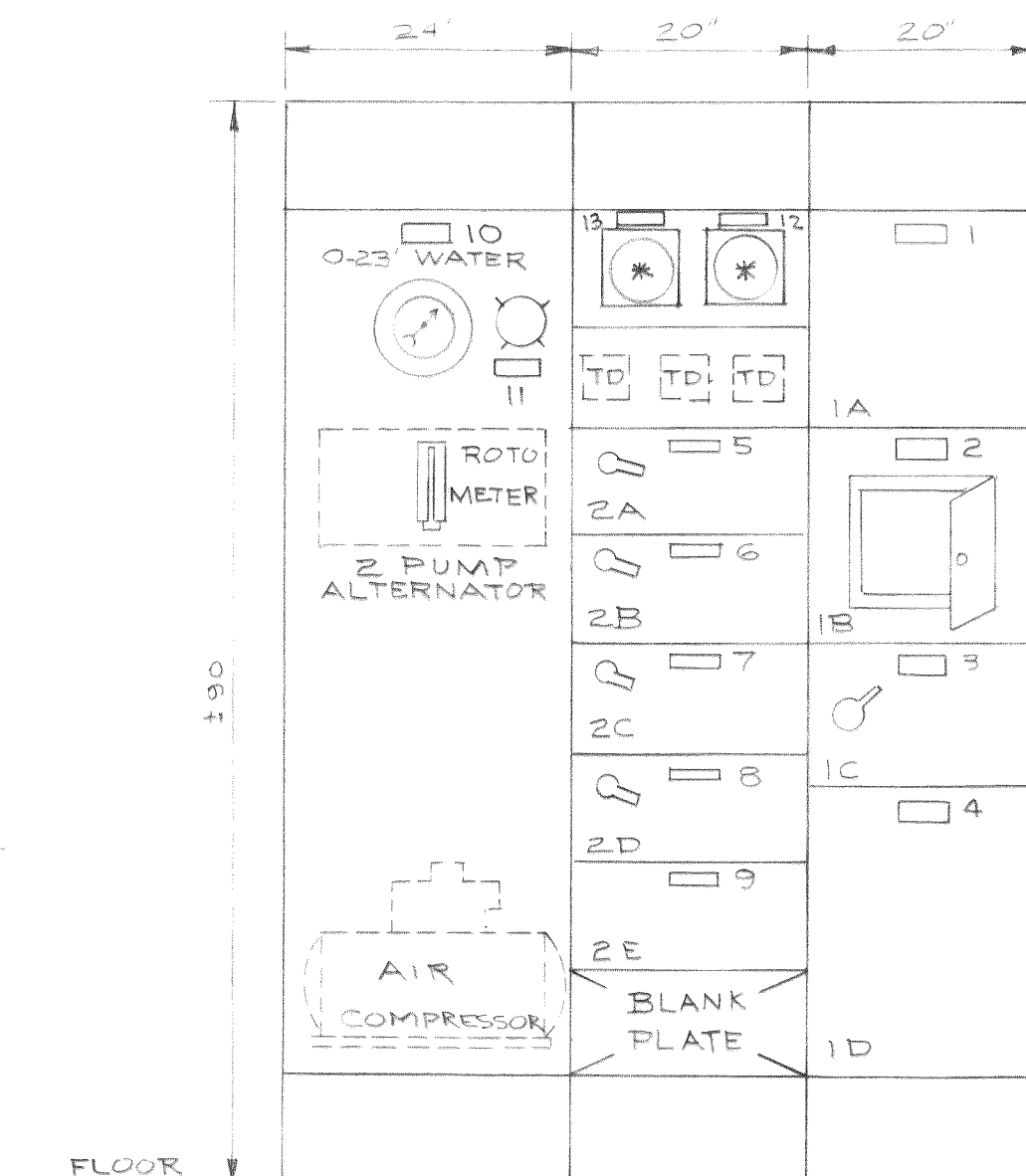
ONE LINE DIAGRAM

ALL BREAKERS IN MOTOR CONTROL CENTER TO HAVE 15,000 RMS AMPS (ASYMMETRICAL) INTERRUPTING RATING



EXH. FAN

NO	LETTERING
1	BLANK
2	LIGHTING PANEL
3	LTG TRANSF BREAKER
4	TRANSF 480-120/240V-1Ø (15KVA)
5	PUMP NO. 1
6	PUMP NO. 2
7	PUMP NO. 3
8	COMMINUTOR
9	BLANK
10	PUMP CONTROL PANEL
11	HIGH WATER ALARM
12	PUMP RM. EXH. FAN
13	WET WELL EXH. FAN



* EAGLE TIMERS FOR EXH. FANS
(PUMP RM & WET WELL)

CONTROL CENTER NO.1

DESIGNED J.L.	APPROVED <i>J.L. Runyan</i>
DRAWN L.A.D.	SCALE AS SHOWN
CHECKED T.S.	DATE JAN. 1969
FILE 67-S-168,002	



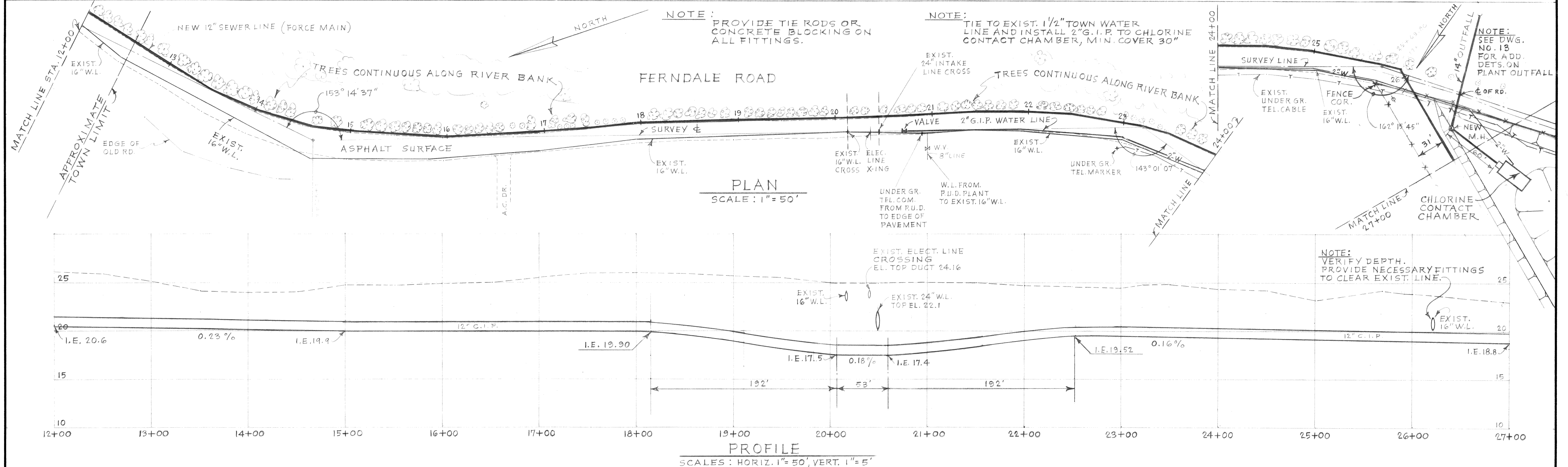
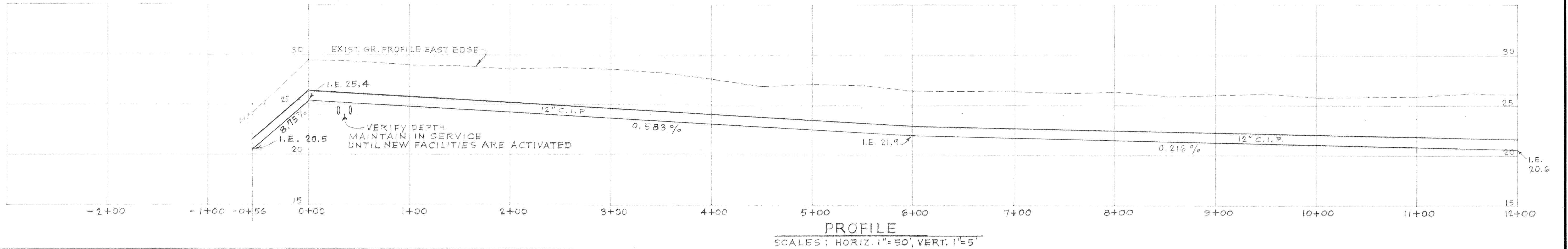
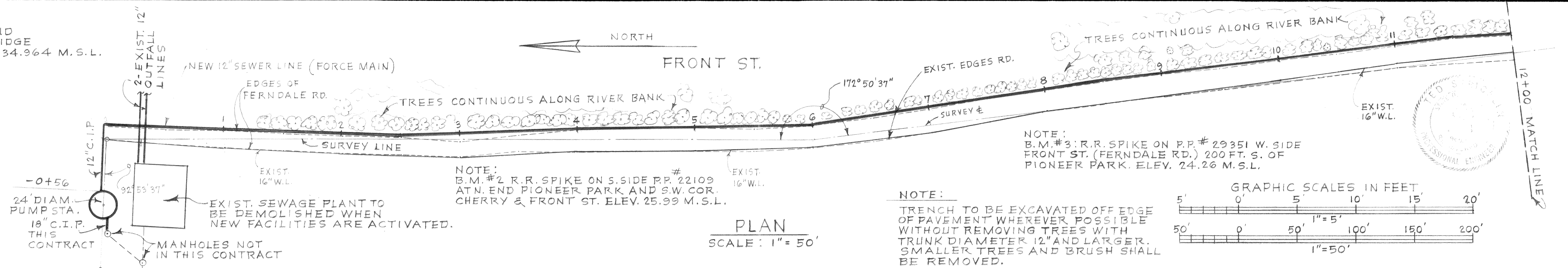
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Engineers/Planners
PORTLAND, OREGON SEATTLE, WASHINGTON

TOWN OF FERDALE, WASHINGTON
TREATMENT AND PUMPING FACILITIES
SCHEDULE I

PUMPING STATION
ELECTRICAL
DIAGRAMS

MICROFILMED Dwg. # 67-S-168 002 - 12

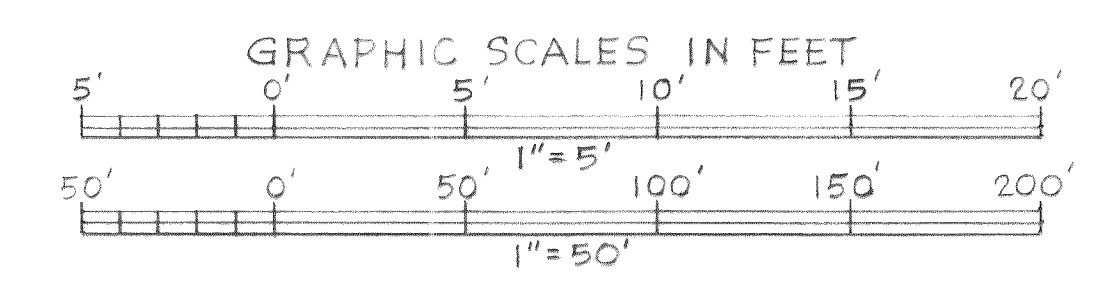
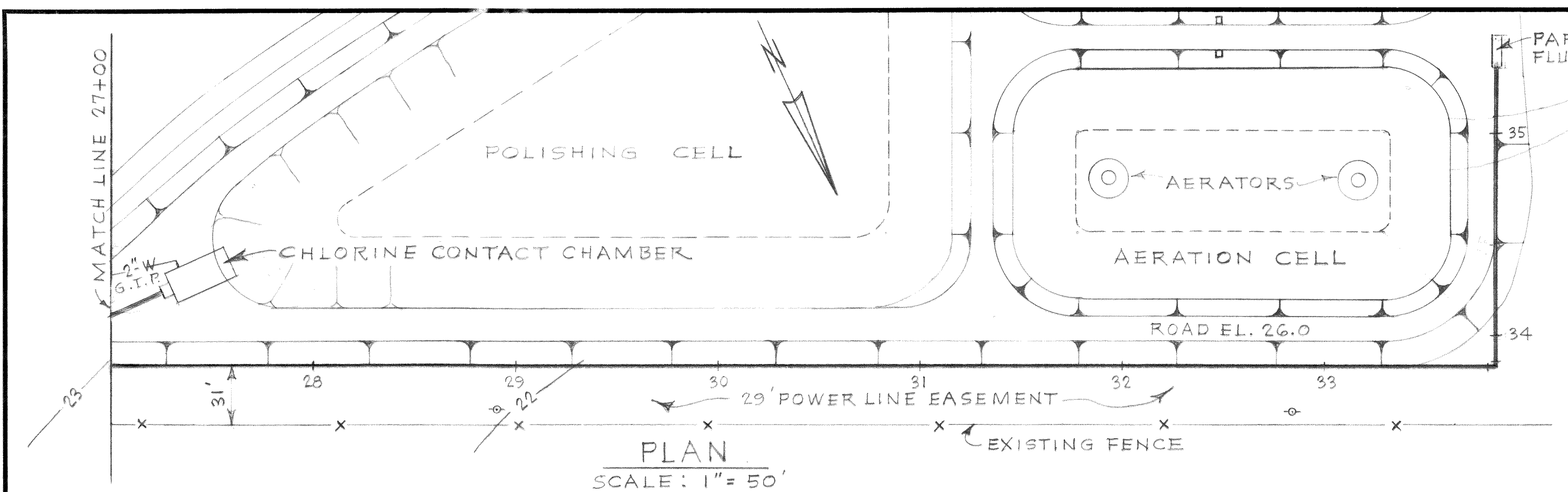
NOTE:
B.M. #1: U.S.G.S. BRONZE DISC. AT S.E. END
OF S.W. SIDEWALK OF COUNTY HIGHWAY BRIDGE
OVER NOOKSACK RIVER, ON MAIN ST. ELEV. 34.964 M.S.L.



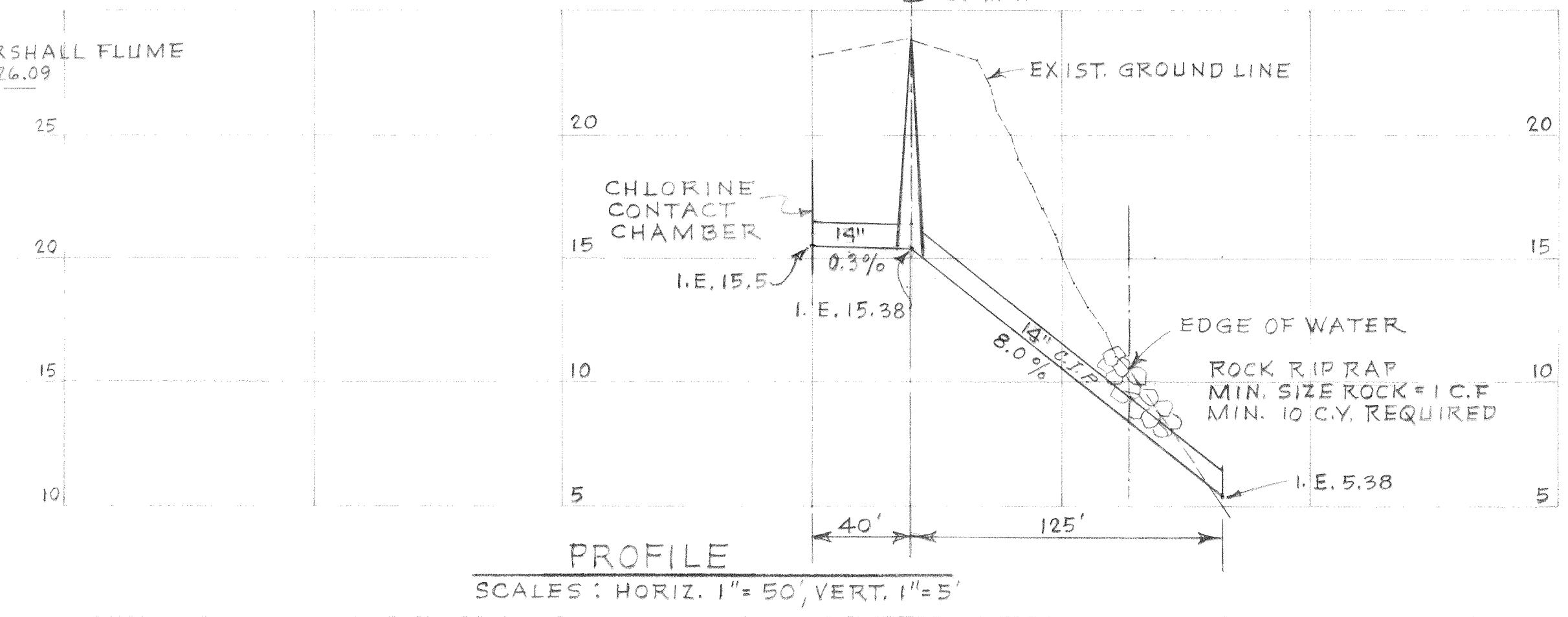
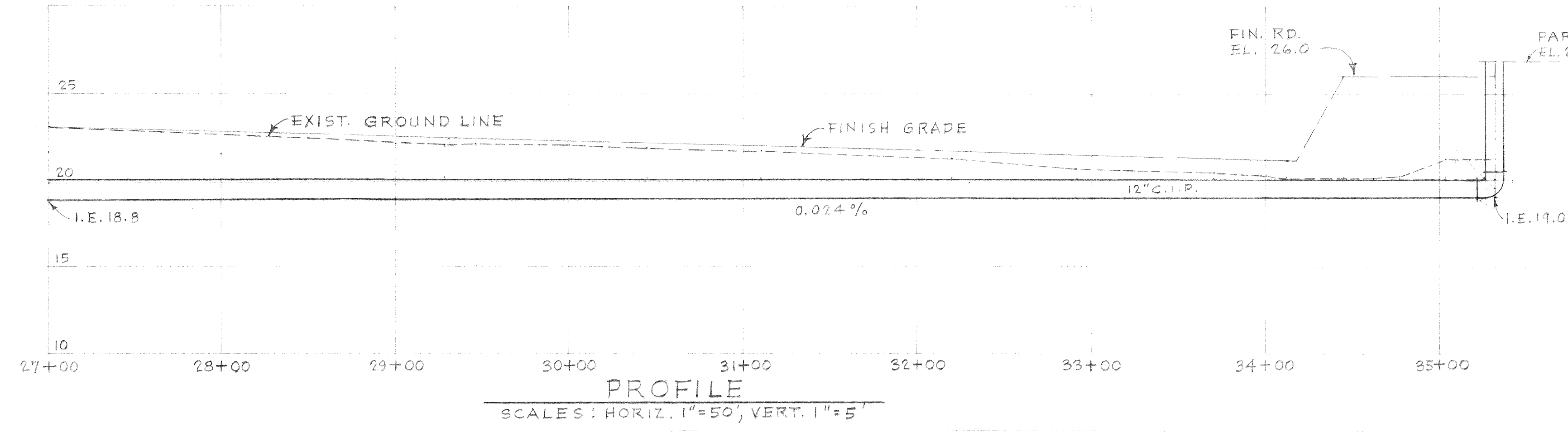
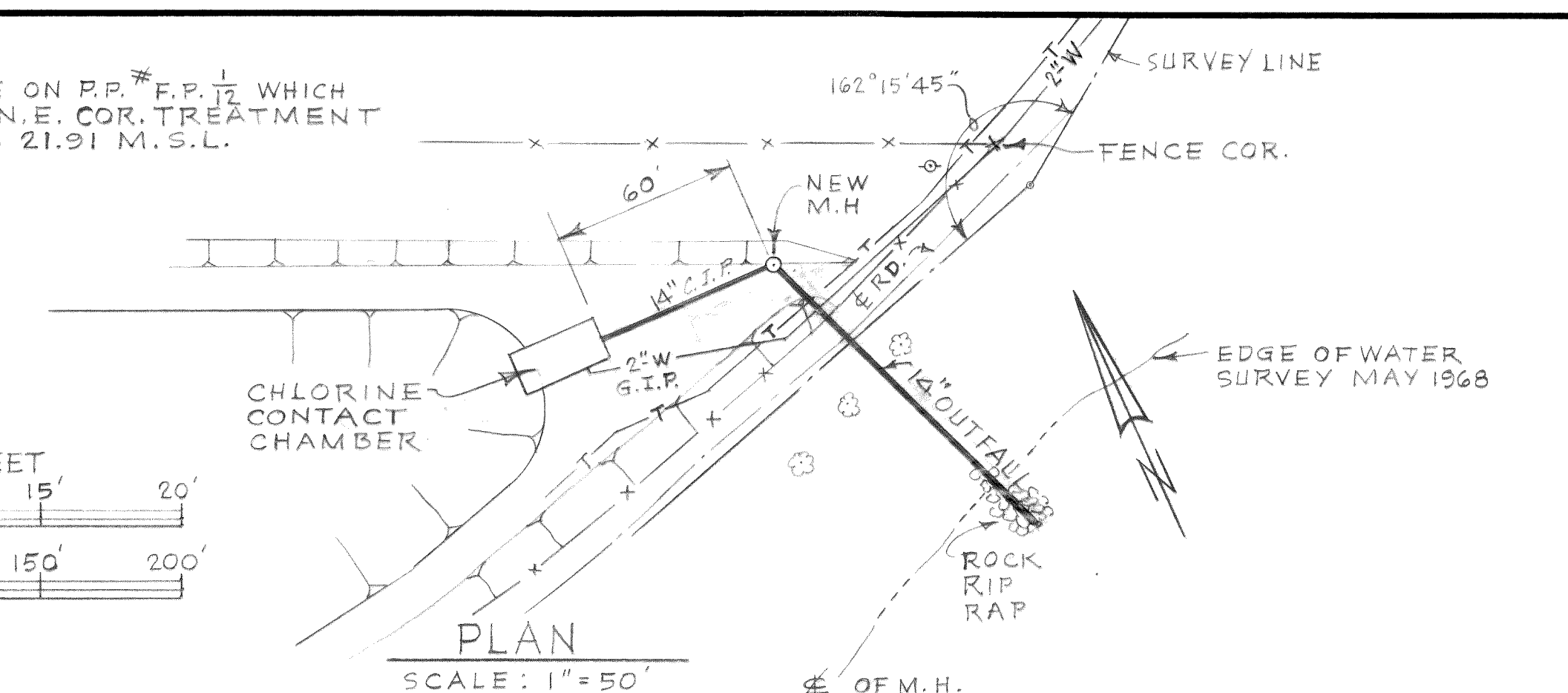
DESIGNED T.S.	APPROVED <i>N.R. Murray</i>	Stevens, Thompson & Runyan, Inc. Engineers/Planners PORTLAND, OREGON SEATTLE, WASHINGTON	TOWN OF FERNDAL, WASHINGTON TREATMENT AND PUMPING FACILITIES SCHEDULE I	PLAN AND PROFILE FORCE MAIN MICROFILMED	12 23
DRAWN L.J.M.	SCALE AS SHOWN DATE JAN. 1969				
DATE	NO.	REVISION	BY	CHECKED T.S.	FILE 67-S-168.002

Dwg # 67-S-168.002-13

00805.014 2-16-64 RL



NOTE:
B.M. #4: R.R. SPIKE ON R.P. #F.P. 1/2 WHICH
IS 2ND POLE W. OF N.E. COR. TREATMENT
PLANT SITE, ELEV. 21.91 M.S.L.



DESIGNED T.S.	APPROVED <i>T.S. Runyan</i>
DRAWN L.J.M.	SCALE AS SHOWN DATE JAN. 1969
CHECKED T.S.	FILE 67-S-168.002

ST
TR

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Engineers/Planners
PORTLAND, OREGON SEATTLE, WASHINGTON

TOWN OF FERNDAL, WASHINGTON
TREATMENT AND PUMPING FACILITIES
SCHEDULE I

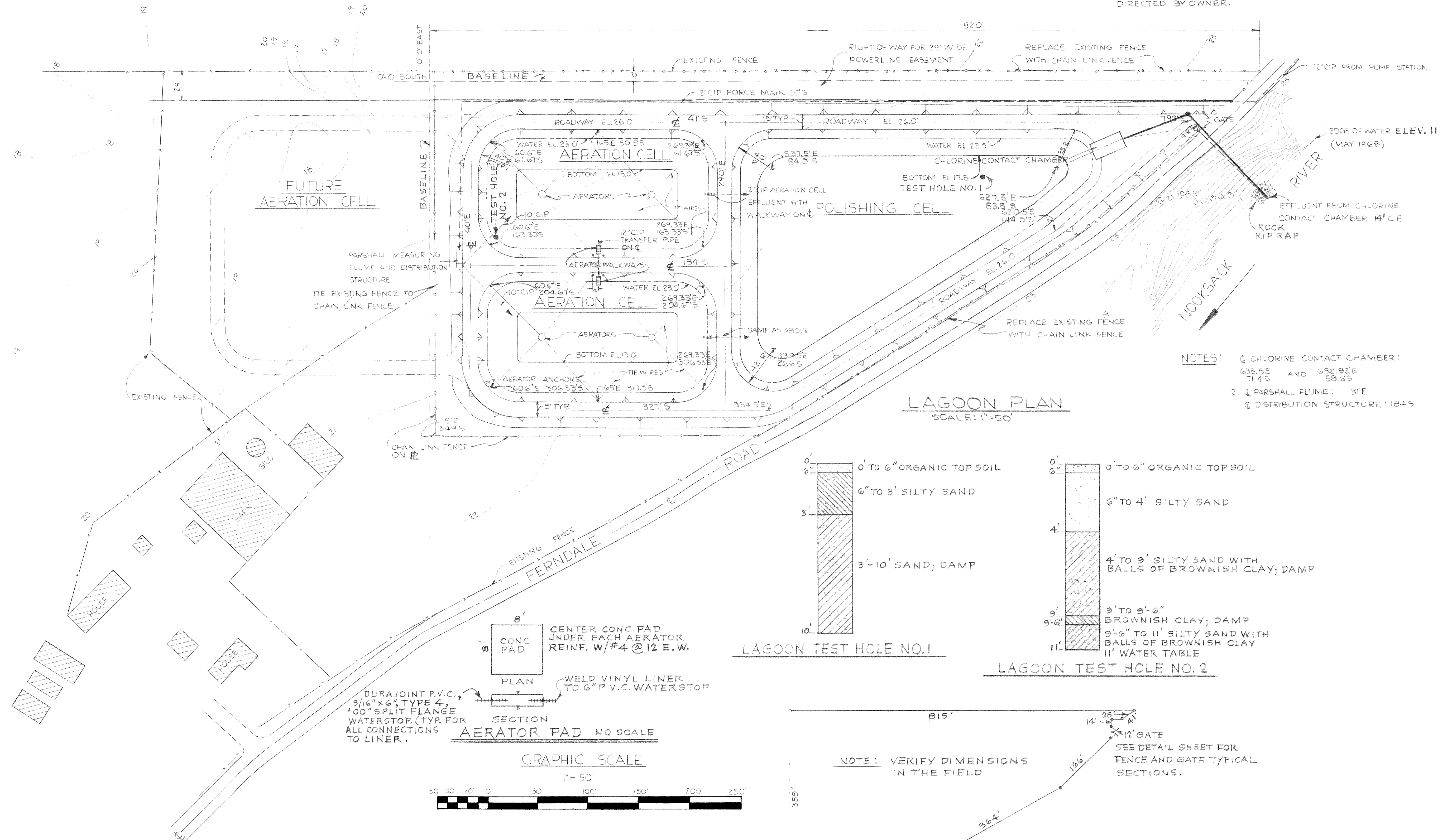
PLAN AND PROFILE
FORCE MAIN

MICROFILMED
Dwg # S-67-168.002-14

NOTE: PREDICTED 100-YEAR FLOOD STAGE =
ELEV. 22.9 (M.S.L.)

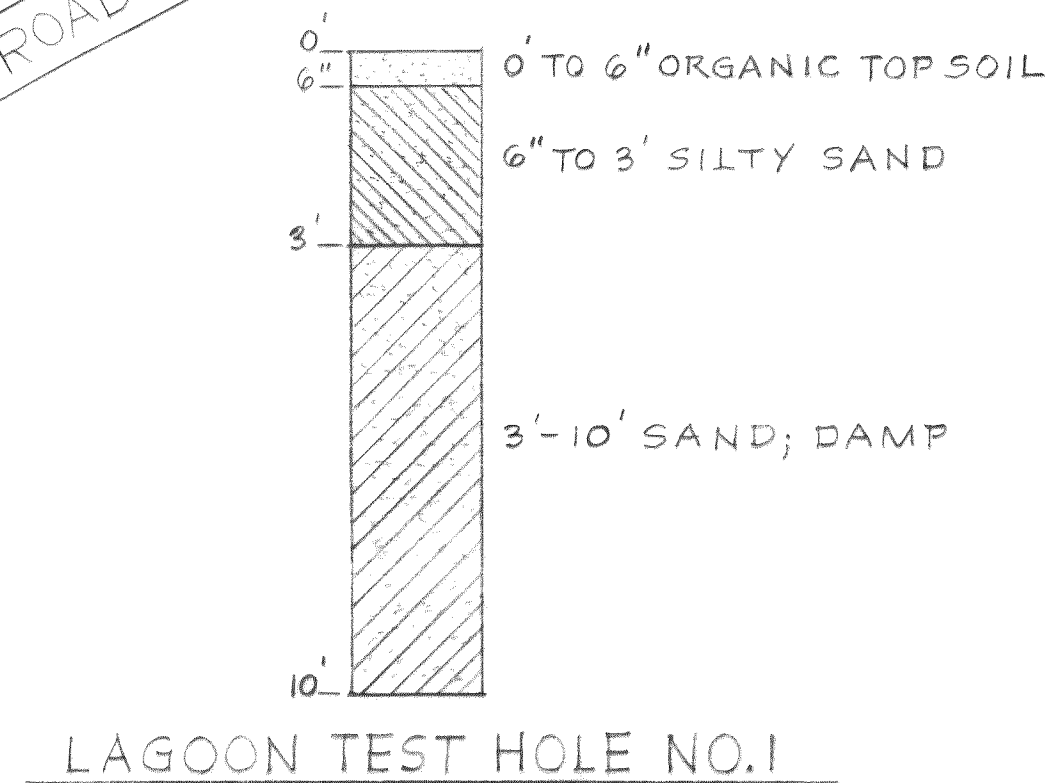
NOTE: ALL FENCING AND POSTS REPLACED SHALL REMAIN PROPERTY
OF OWNER. WIRE SHALL BE ROLLED AND TIED. STORE AS
DIRECTED BY OWNER.

N

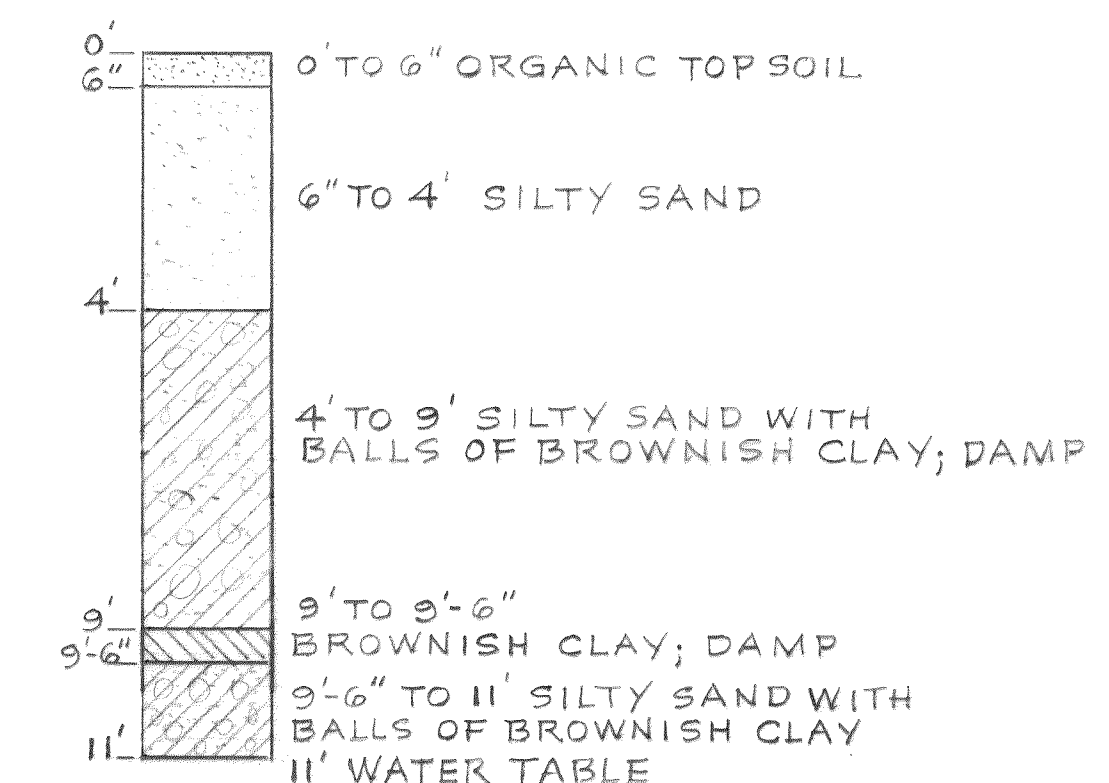


LAGOON PLAN
SCALE: 1"=50'

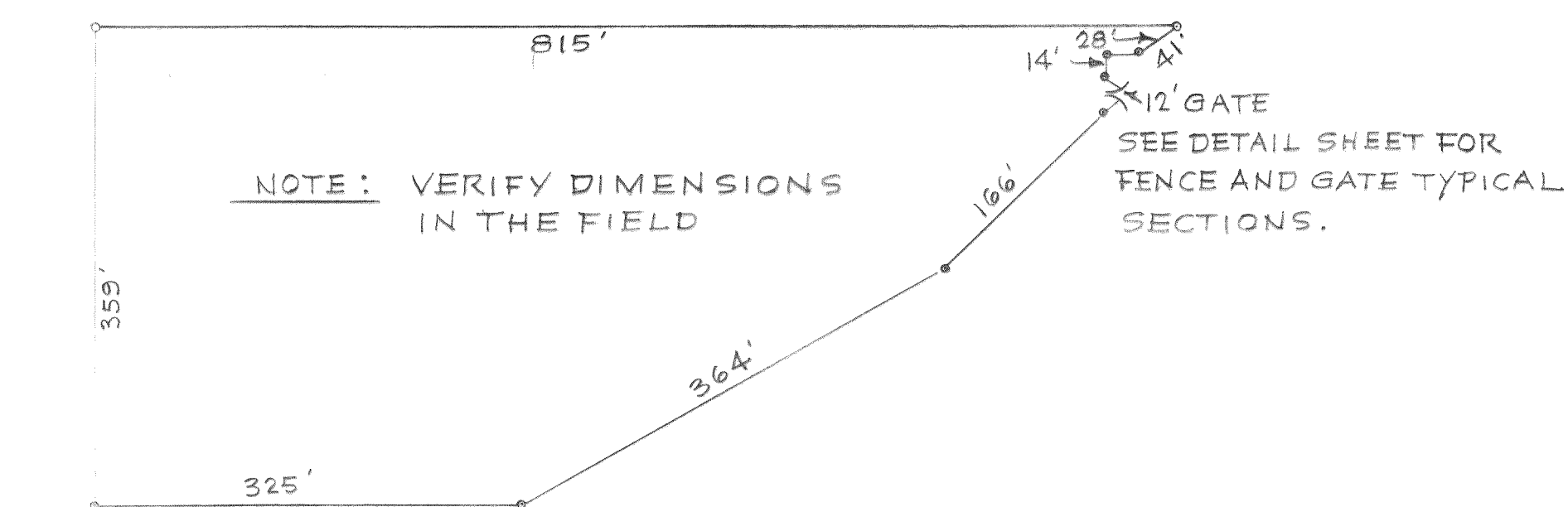
- NOTES: 1. CHLORINE CONTACT CHAMBER:
653.5'E AND 682.8'E
71.4'S 58.6'S
2. PARSHALL FLUME: 3'E
DISTRIBUTION STRUCTURE: 184'S



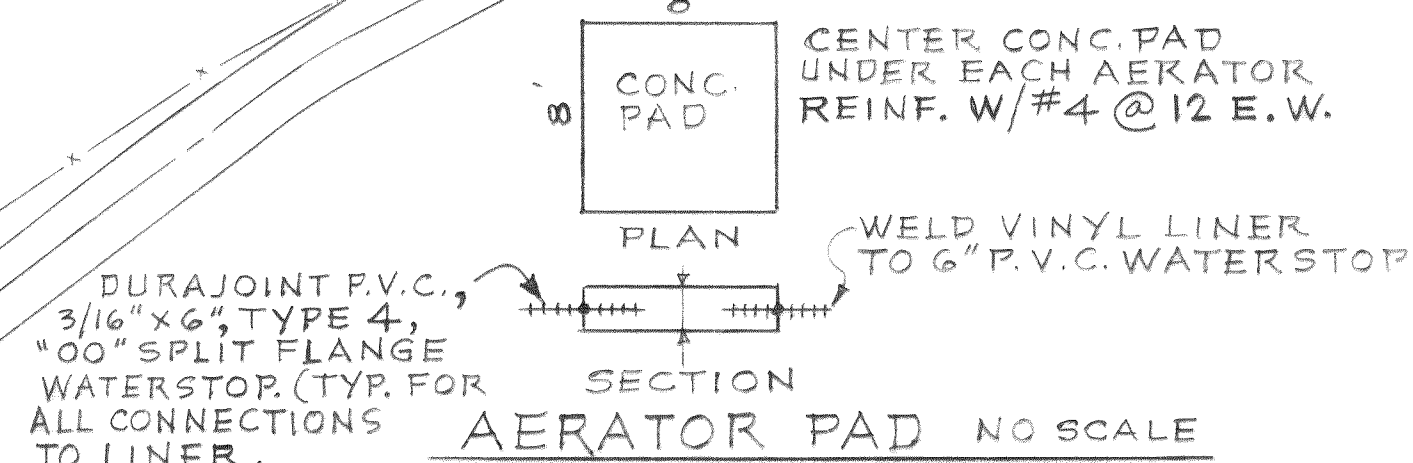
LAGOON TEST HOLE NO. 1



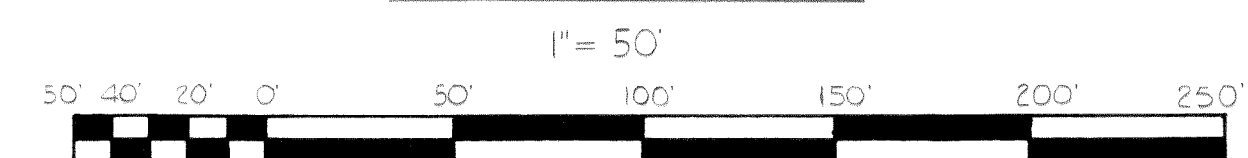
LAGOON TEST HOLE NO. 2



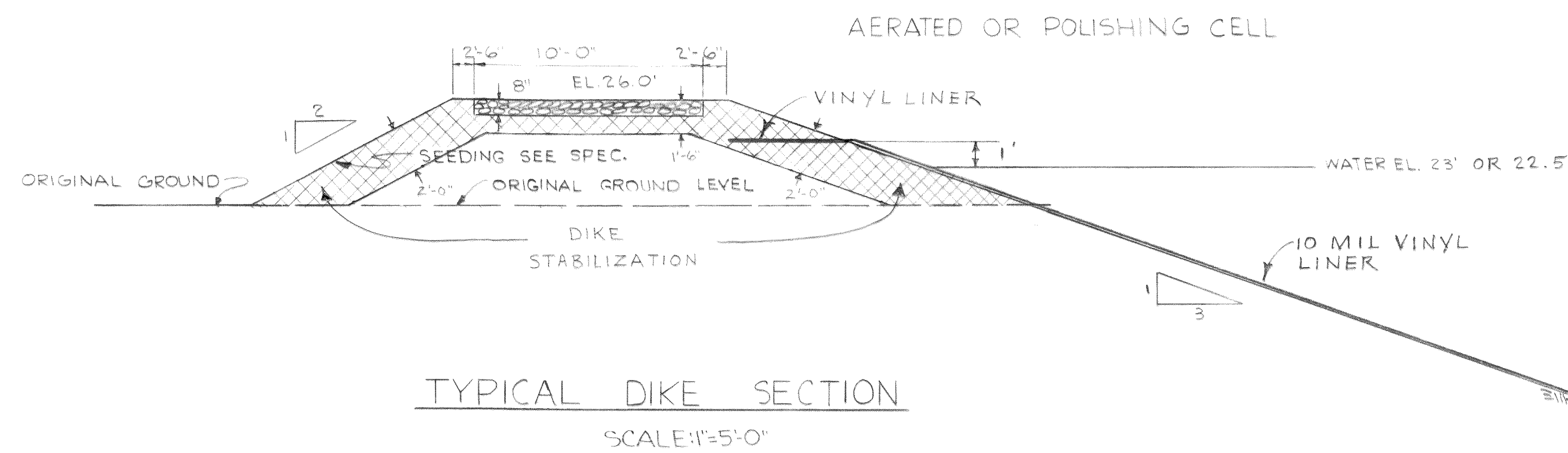
CHAIN LINK FENCE PLAN
NO SCALE



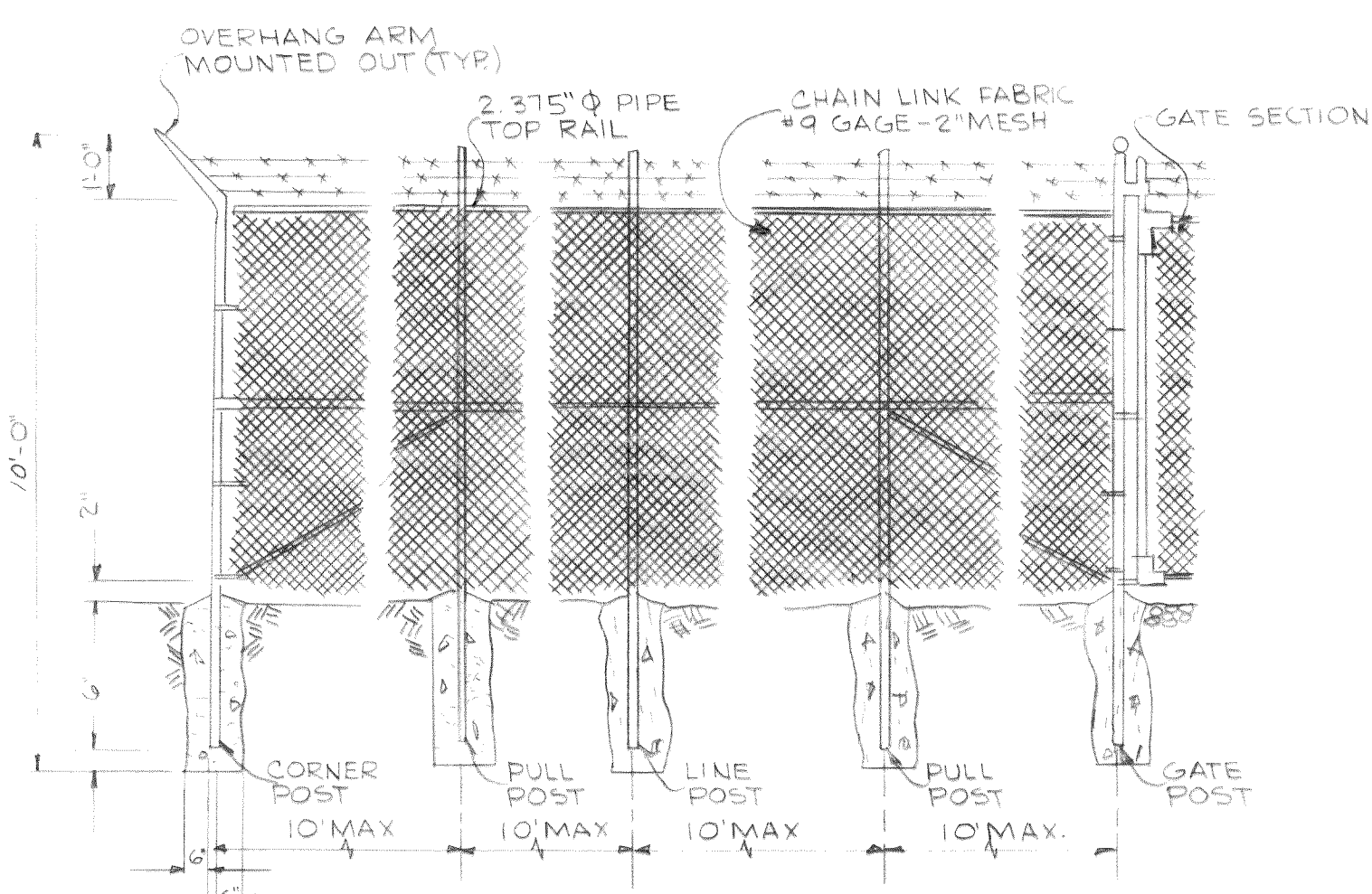
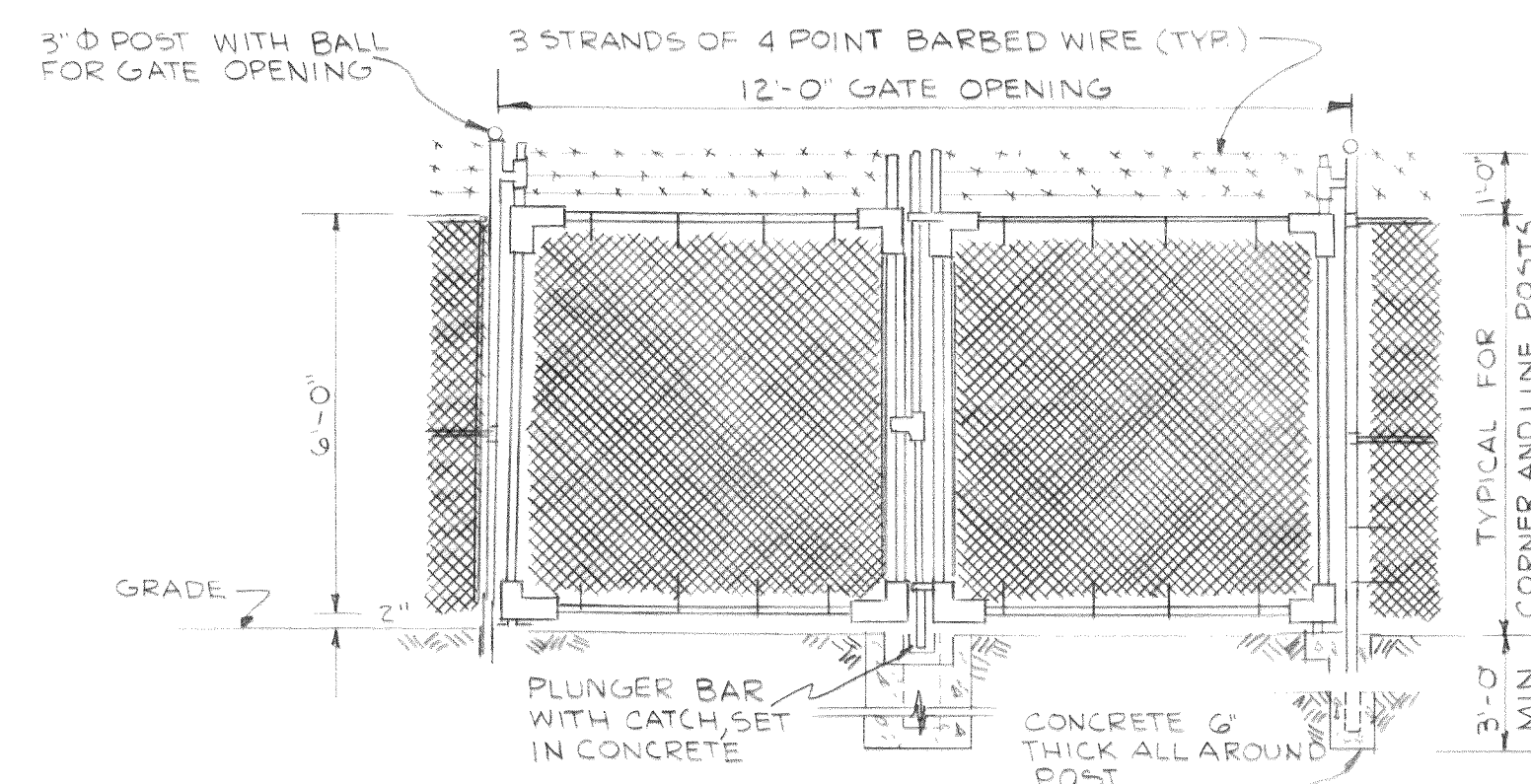
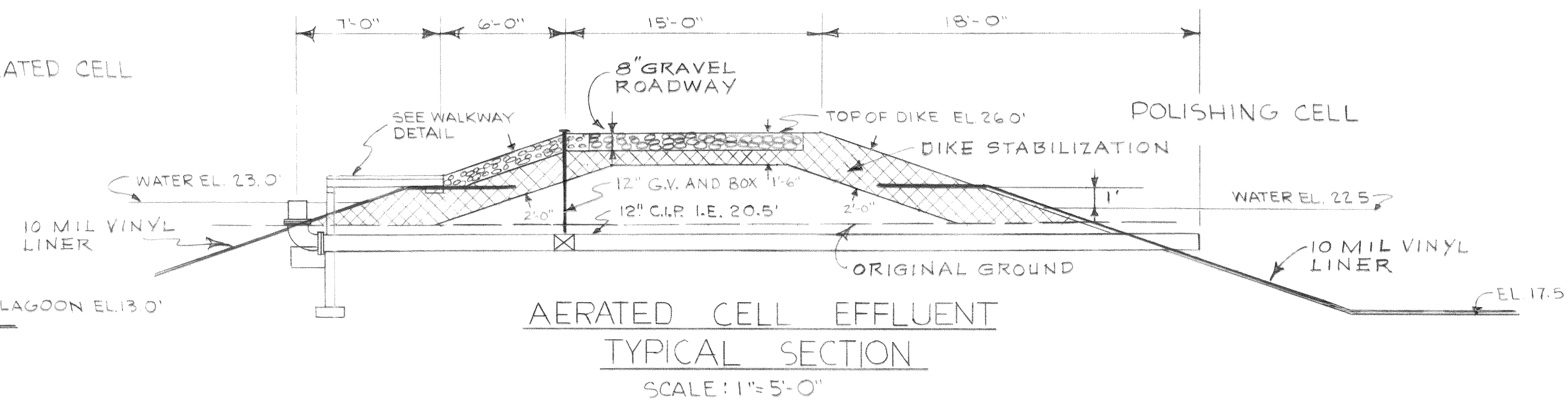
GRAPHIC SCALE



DESIGNED T.S.	APPROVED <i>L.R. Murray</i>	Stevens, Thompson & Runyan, Inc. Engineers/Planners PORTLAND, OREGON SEATTLE, WASHINGTON	TOWN OF FERDALE, WASHINGTON TREATMENT AND PUMPING FACILITIES SCHEDULE I	LAGOON PLAN MICROFILMED Dwg # 67-S-168.002-15	14 23
DRAWN L.M.R.	SCALE AS SHOWN DATE JAN. 1969				
CHECKED T.S.	FILE 67-S-168.002				
DATE NO. REVISION BY					



AERATED CELL



NOTE

END ANGLE CORNER OR PULL POSTS: 2.375" O.D. TUBULAR STEEL, 5.79#/FT
LINE POSTS: 2 1/4" H SECTION, 4.1#/FT. OR 2.375" O.D. TUBE STEEL, 3.65#/FT
BRACES: 1.66" O.D. TUBULAR STEEL, 2.27#/FT. OR 1.5" X 1.31" H SECTION 2.27#/FT.

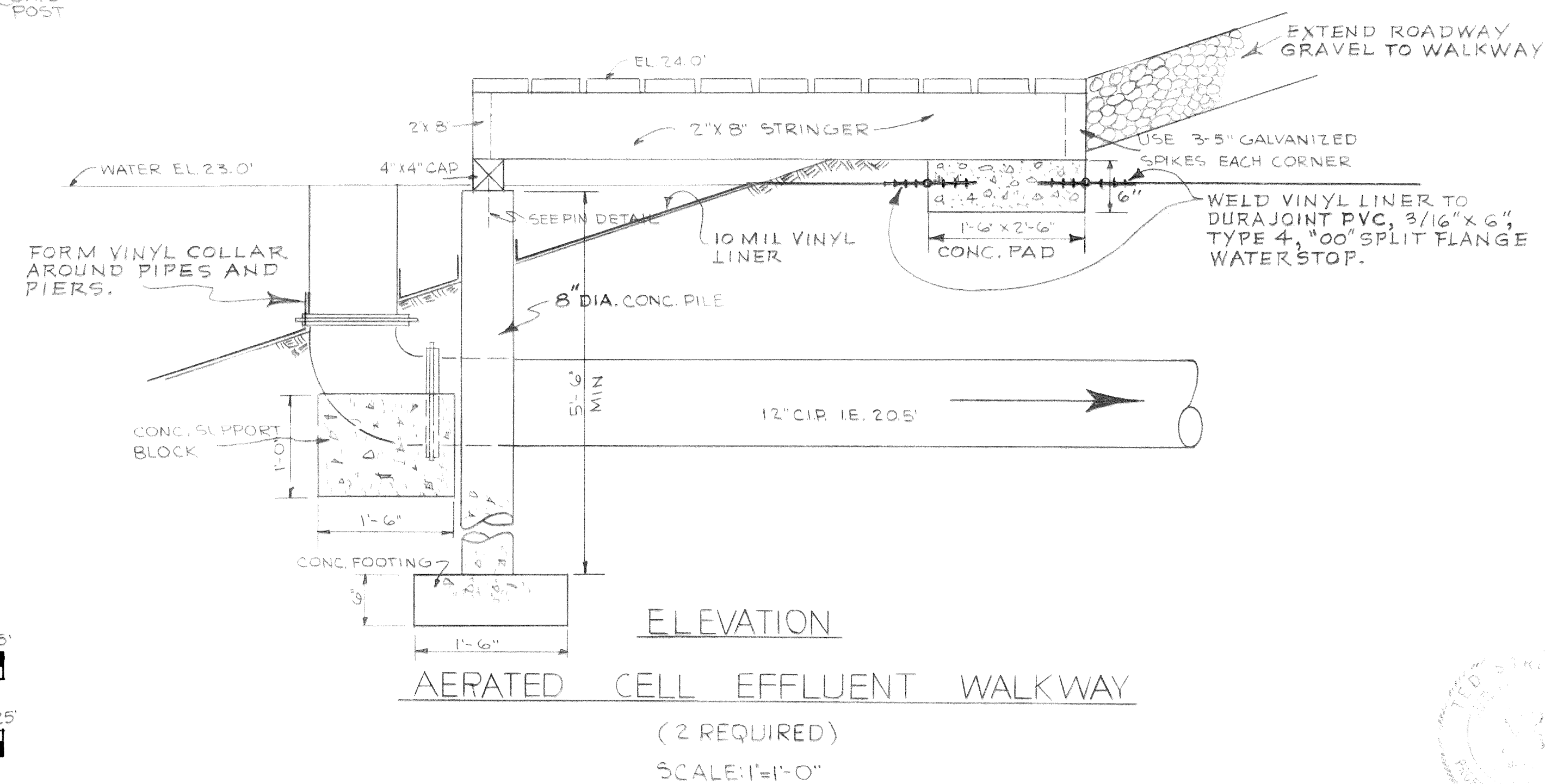
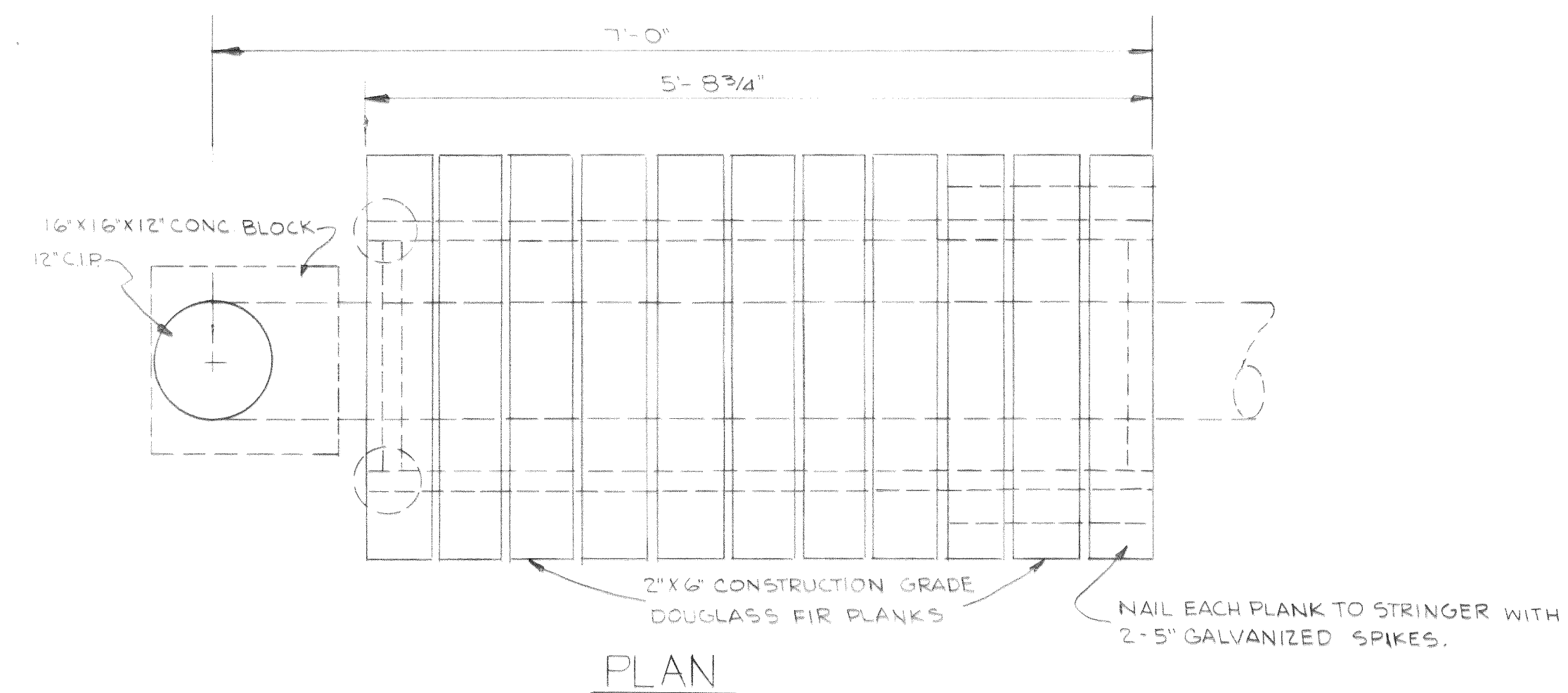
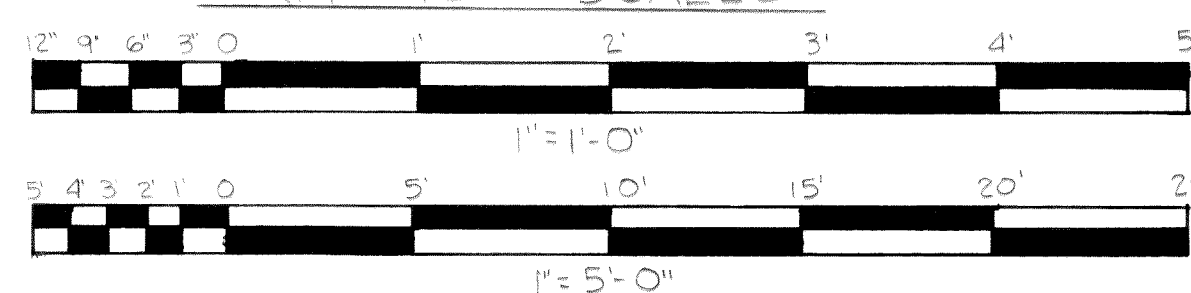
DOUBLE LEAF GATE

TYPICAL FENCE SECTIONS

CHAIN LINK FENCE DETAIL

NO SCALE

GRAPHIC SCALES



DESIGNED T.S.	APPROVED <i>L.R. Murray</i>
DRAWN L.M.R.	SCALE AS SHOWN DATE JAN. 1969
CHECKED T.S.	FILE 67-5-168,002



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TOWN OF FERNDALE, WASHINGTON
TREATMENT AND PUMPING FACILITIES
SCHEDULE I

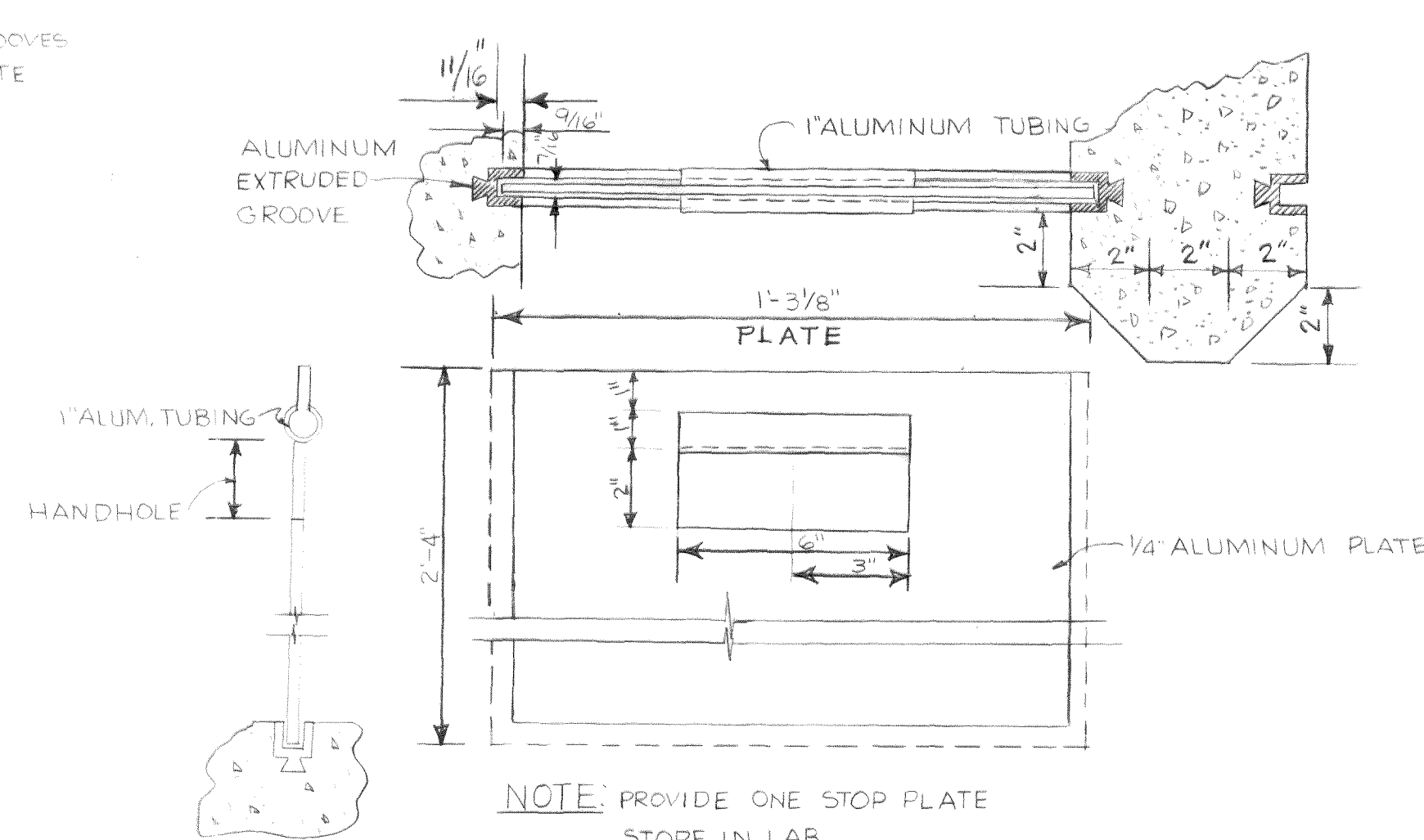
LAGOON MISC. DETAILS

MICROFILMED

15
23

SHANNON & COMPANY
MICROFILMED Dwg # 67-5-168,002-16

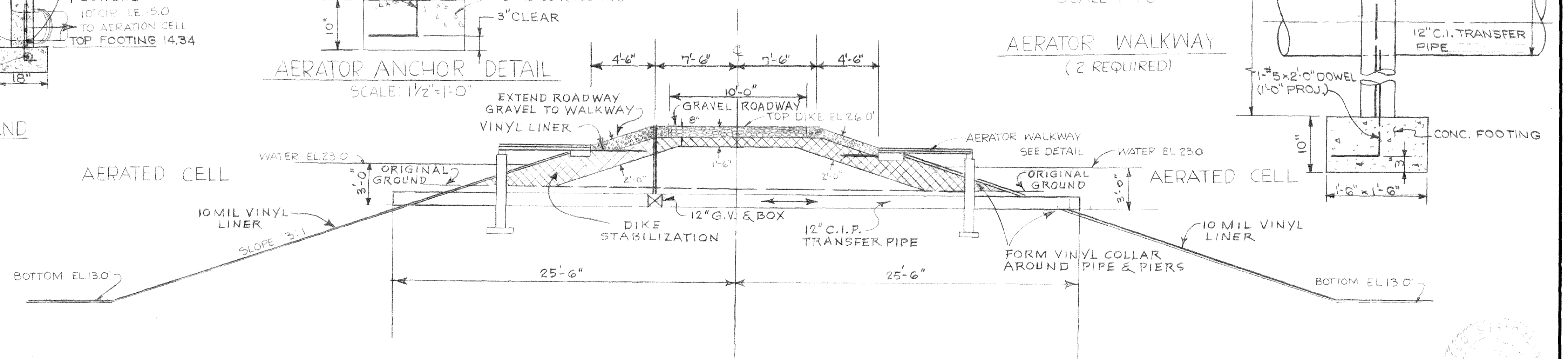
SECTION B-B
TYP. SIDE WALL



Hand-drawn plan view of a bridge deck. The overall width is 6'-10 1/4" and the overall length is 4'-0". The deck is composed of 2"x6" construction grade Douglas fir planks, nailed to 2"x4" galvanized spikes. The planks are spaced 1/4" apart (typical). The deck is supported by 2"x8" stringers, which are in turn supported by 8" diameter concrete posts. A 12" C.I. transfer pipe is shown passing through the deck. The deck is 4'-0" wide and 6'-10 1/4" long. The stringers are 2'-0" apart. The posts are 8" in diameter. The transfer pipe is 12" in diameter. The spikes are 2"x4" galvanized. The planks are 2"x6" construction grade Douglas fir.

TOP DIKE
 EL 26.0
 8" DIAM. CONC. POST
 TOP
 EL 26.5
 GALVANIZED 5/8" WELDED EYE
 ROD WITH WASHER AND NUT
 CAST 3/4" SLEEVES THRU CONC
 TO RECEIVE ROD.
 1" #5 VERT
 2'-0"
 1" #5 x 2'-0" DOWEL
 EL 18.0
 18" x 18" CONC. FOOTING
 3" CLEAR
 10"

AERATOR WALKWAY
(2 REQUIRED)



PARSHALL MEASURING FLUME AND DISTRIBUTION STRUCTURE

Figure 1 shows five examples of binary sequences with different periodicities. Each sequence is represented by a horizontal bar with alternating black and white segments. Above each bar, the periodicity is given in degrees and minutes. Below each bar, the sequence of segment lengths in degrees and minutes is listed. The sequences are:

- 1) Periodicity $1^{\circ} 1' 0''$, lengths: 6', 0', 2', 3', 4', 2', 1', 0', 6'
- 2) Periodicity $1^{\circ} 1' 0''$, lengths: 6', 0', 3', 6', 9'
- 3) Periodicity $1^{\circ} 1' 0''$, lengths: 5', 4', 3', 2', 1', 0', 5', 10', 15', 20', 25'
- 4) Periodicity $1^{\circ} 1' 0''$, lengths: 6', 0', 3', 6', 9'
- 5) Periodicity $1^{\circ} 1' 0''$, lengths: 5', 4', 3', 2', 1', 0', 5', 10', 15', 20', 25'

				DESIGNED T.S.	APPROVED <i>L.D. Murray</i>
				DRAWN L.M.R.	SCALE AS SHOWN DATE JAN. 1969
DATE	NO.	REVISION	BY	CHECKED T.S.	FILE 67- 5-168.002

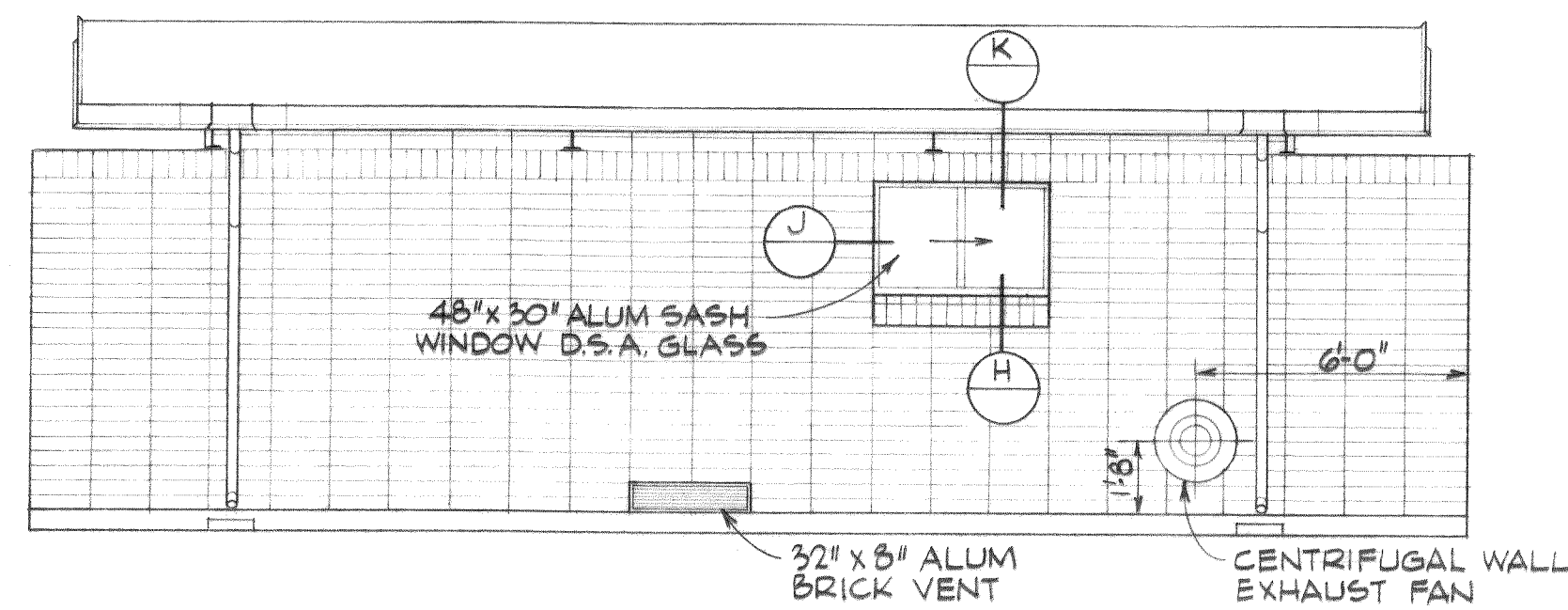


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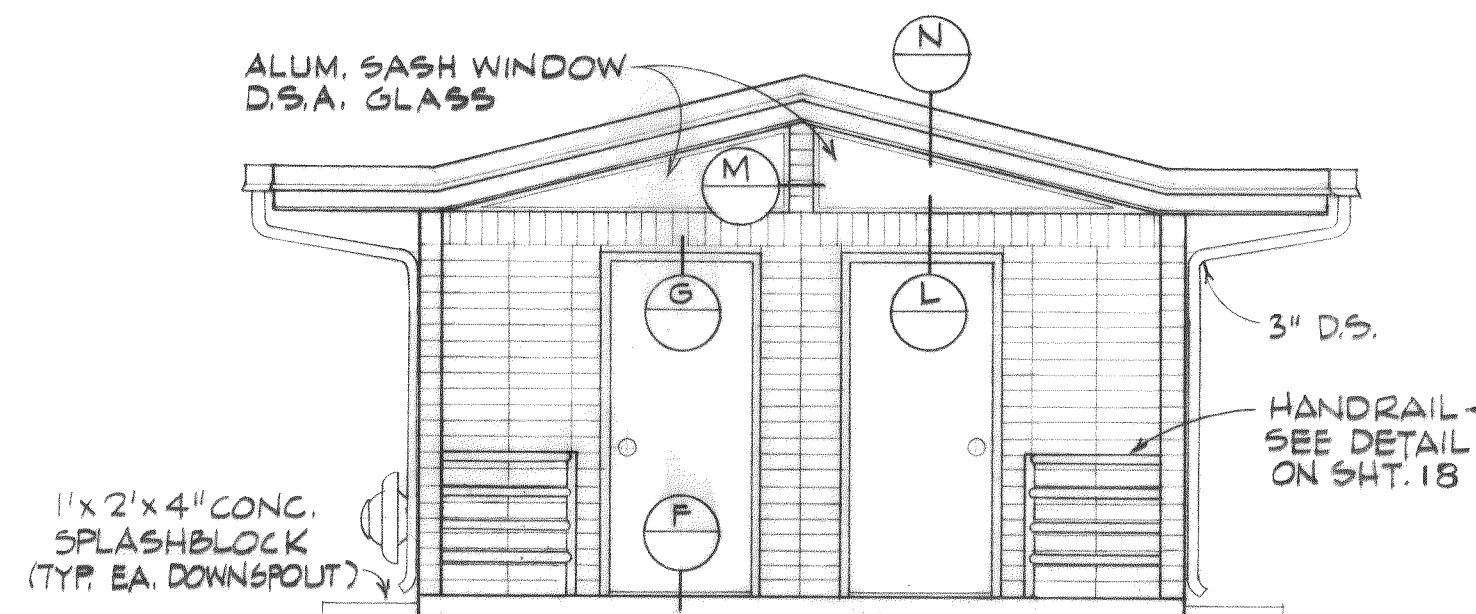
TOWN OF FERNDALE, WASHINGTON
TREATMENT AND PUMPING FACILITIES
SCHEDULE I

LAGOON MISC. DETAILS

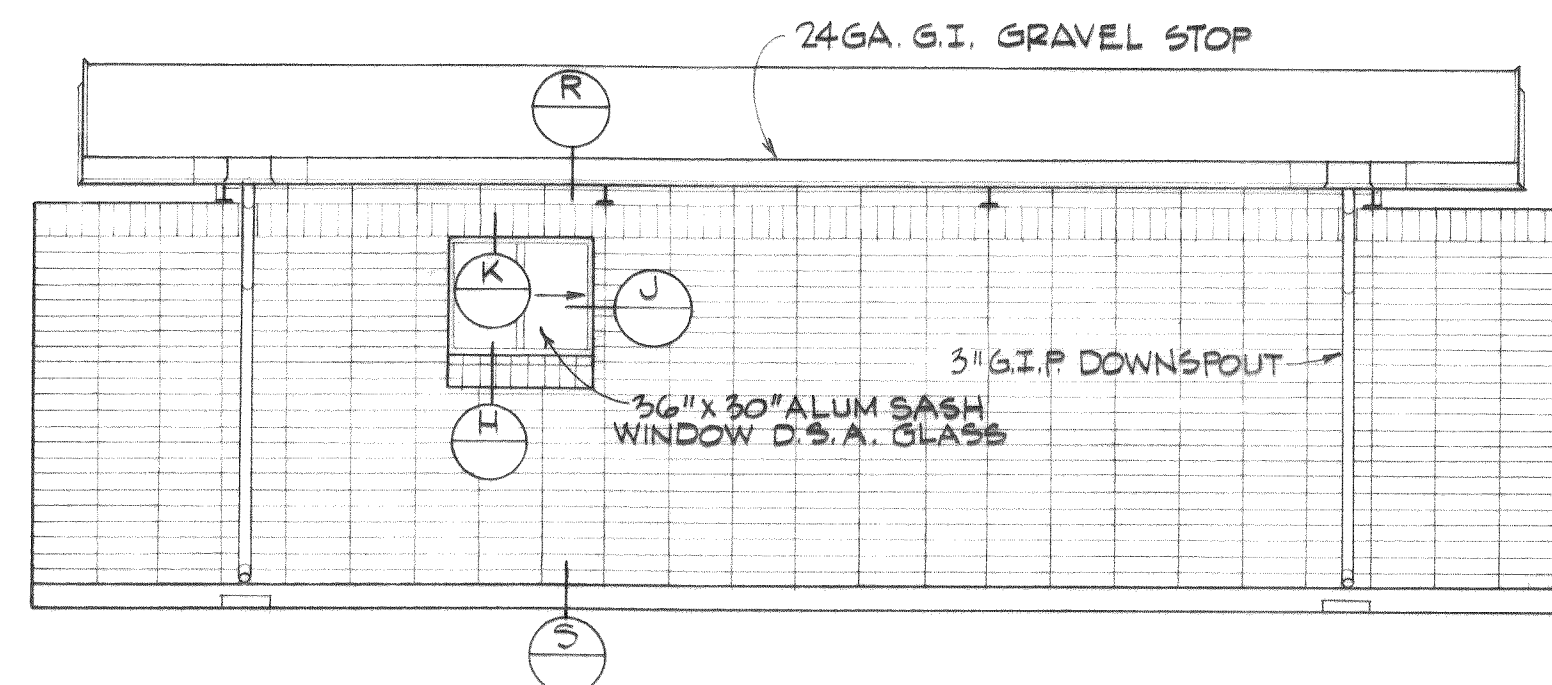
MICROFILMED Aug # 5-67-168,002-17



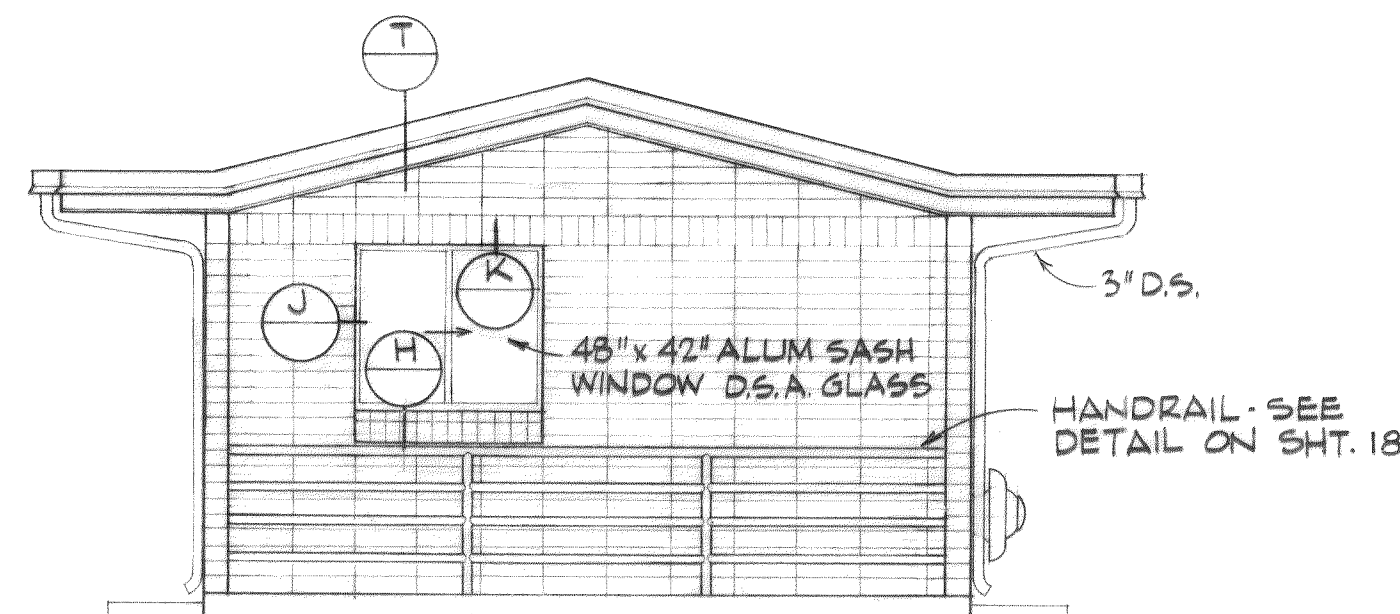
SOUTH ELEVATION
1/4" = 1'-0"



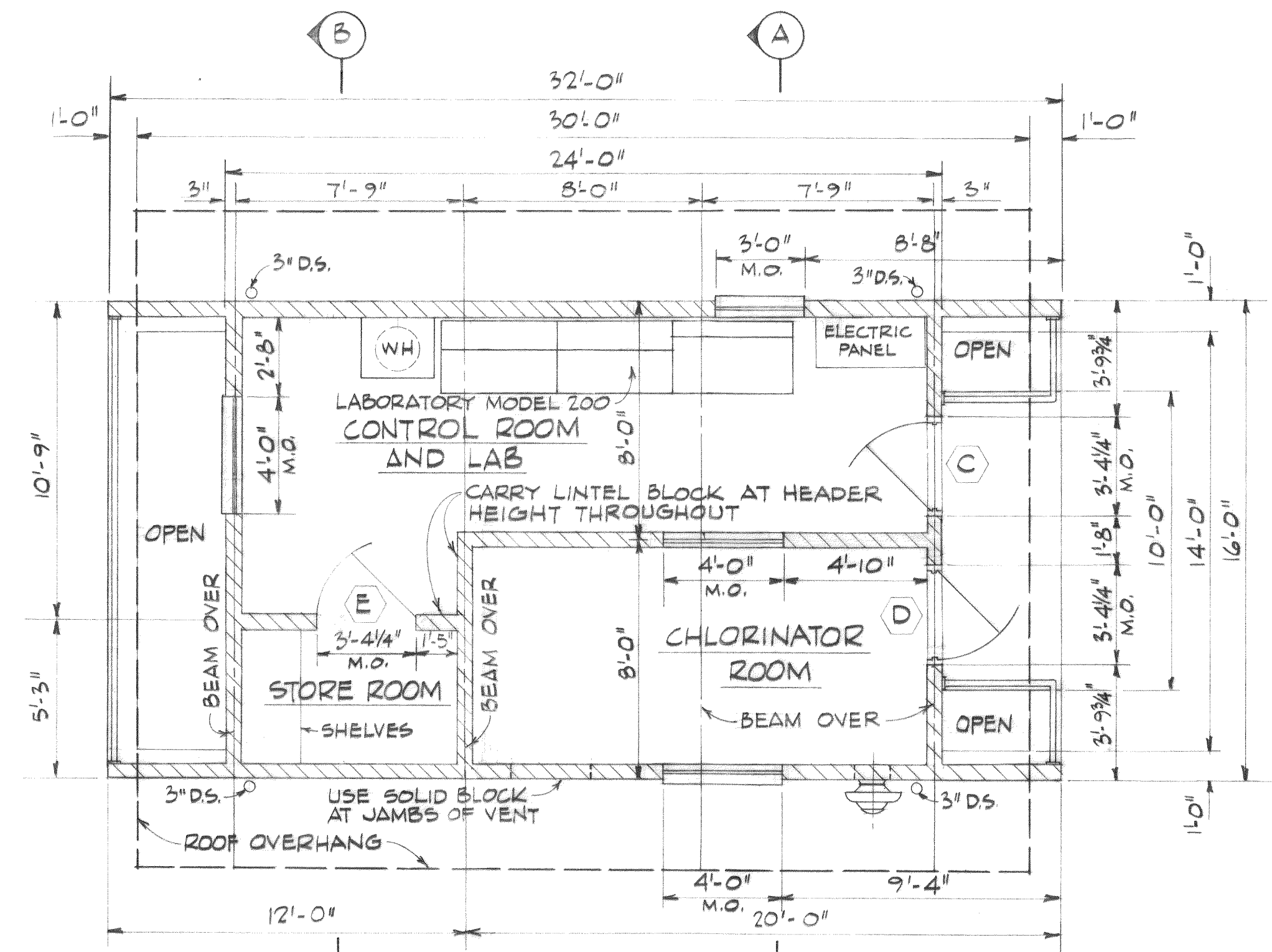
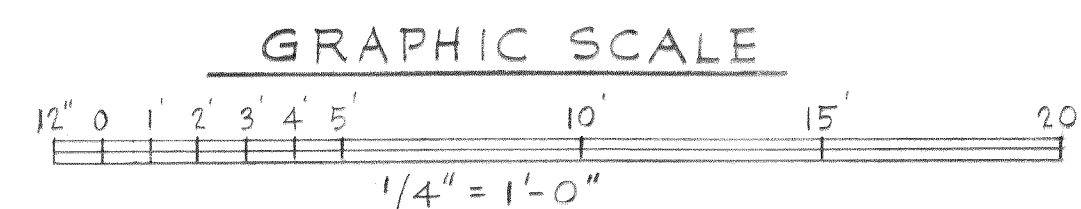
EAST ELEVATION
1/4" = 1'-0"



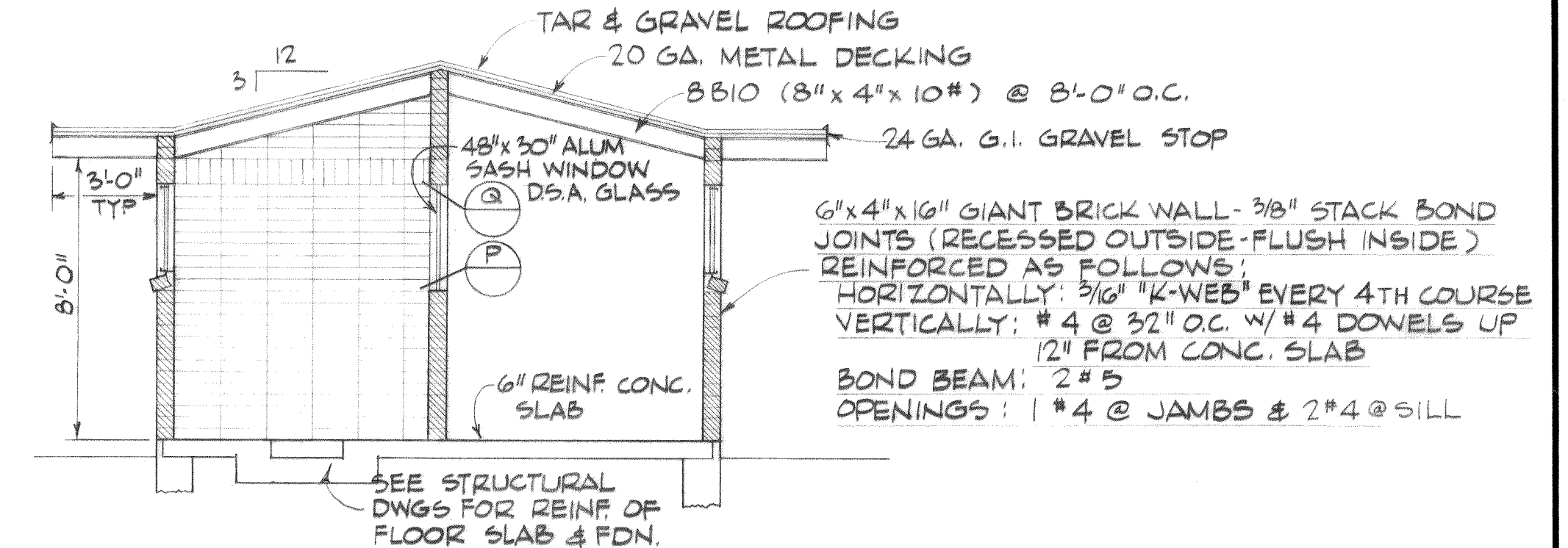
NORTH ELEVATION
1/4" = 1'-0"



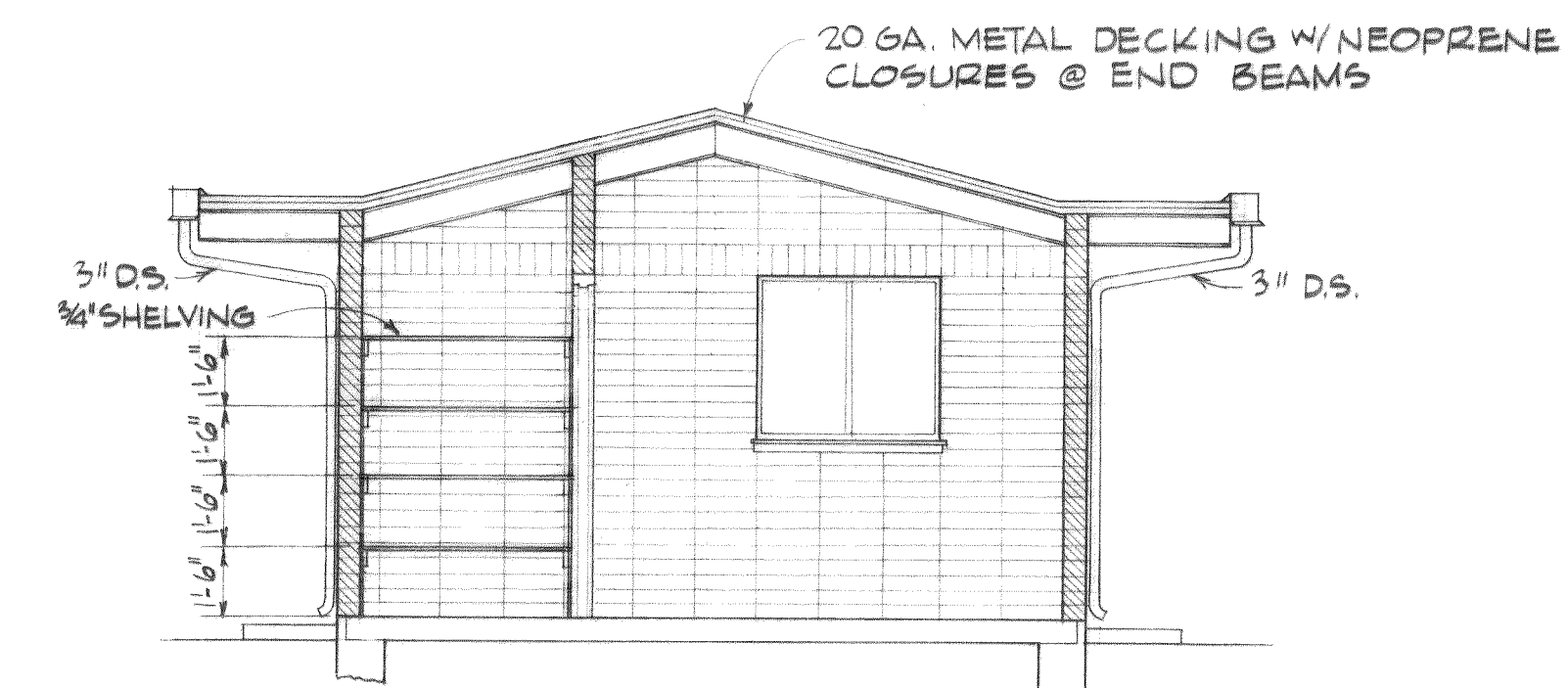
WEST ELEVATION
1/4" = 1'-0"



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



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



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

DESIGNED G. R. S.	APPROVED <i>A. D. Perry</i>
DRAWN L. R. M.	SCALE AS SHOWN DATE JAN. 1969
CHECKED T. S.	FILE 67-S-168.002



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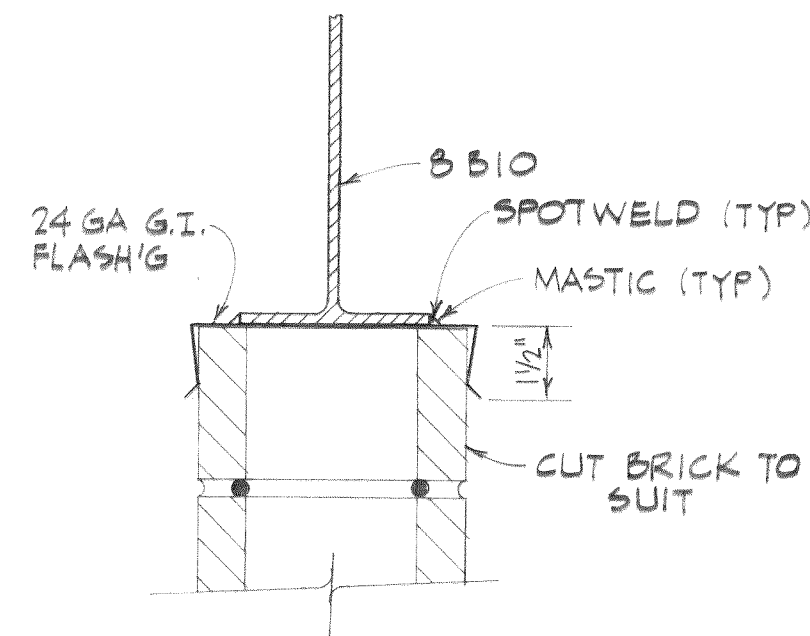
TOWN OF FERDALE, WASHINGTON
TREATMENT AND PUMPING FACILITIES
SCHEDULE I

CHLORINATION BLDG.-ARCHITECTURAL
PLAN AND ELEVATIONS

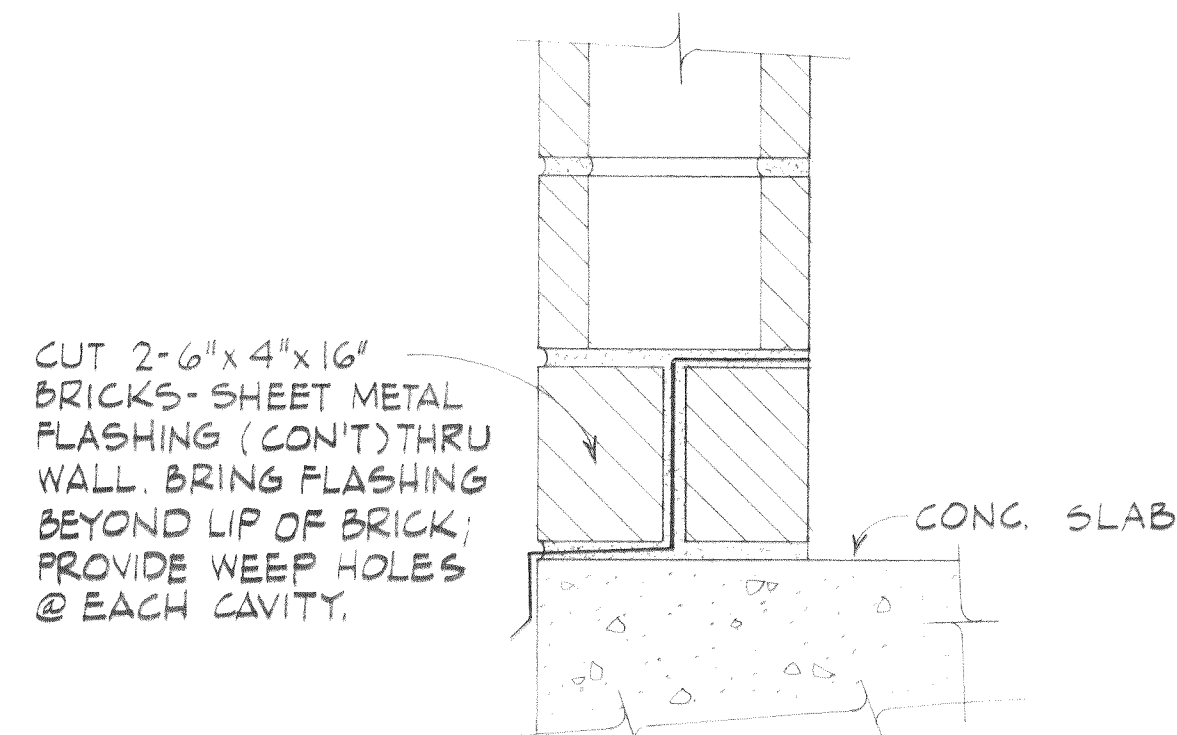
17
23

MICROFILMED Dwg # 67-S-168.002-18

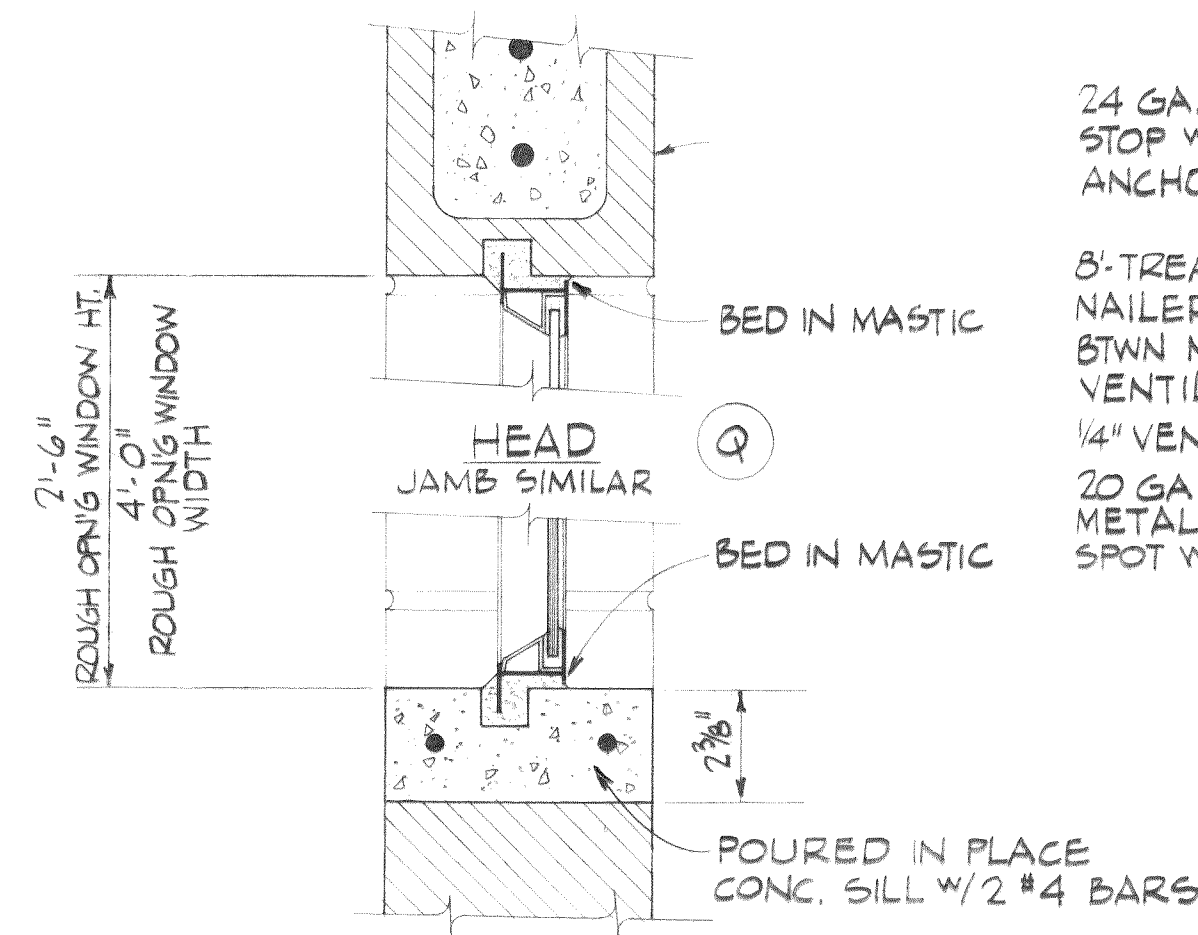
67-168-002



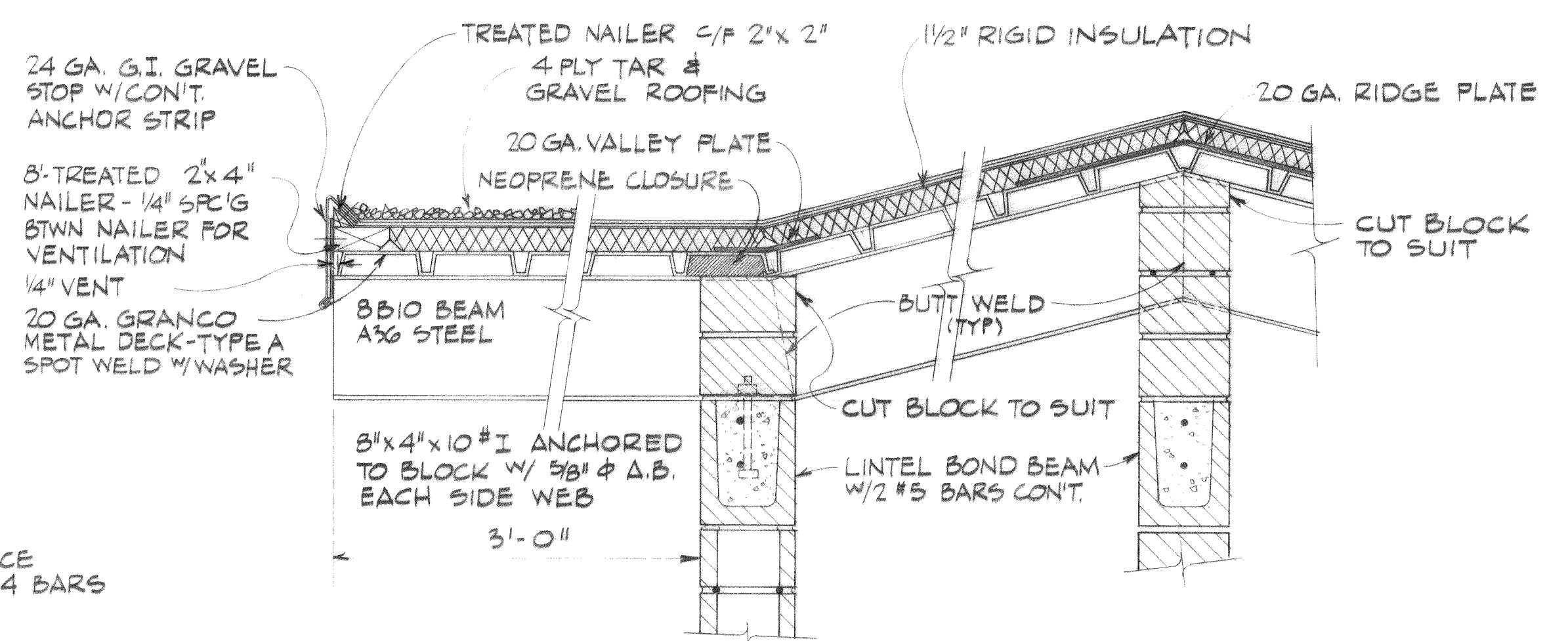
WALL SECTION T
(TYP @ HEAD OF WEST WALL)
3" = 1'-0"



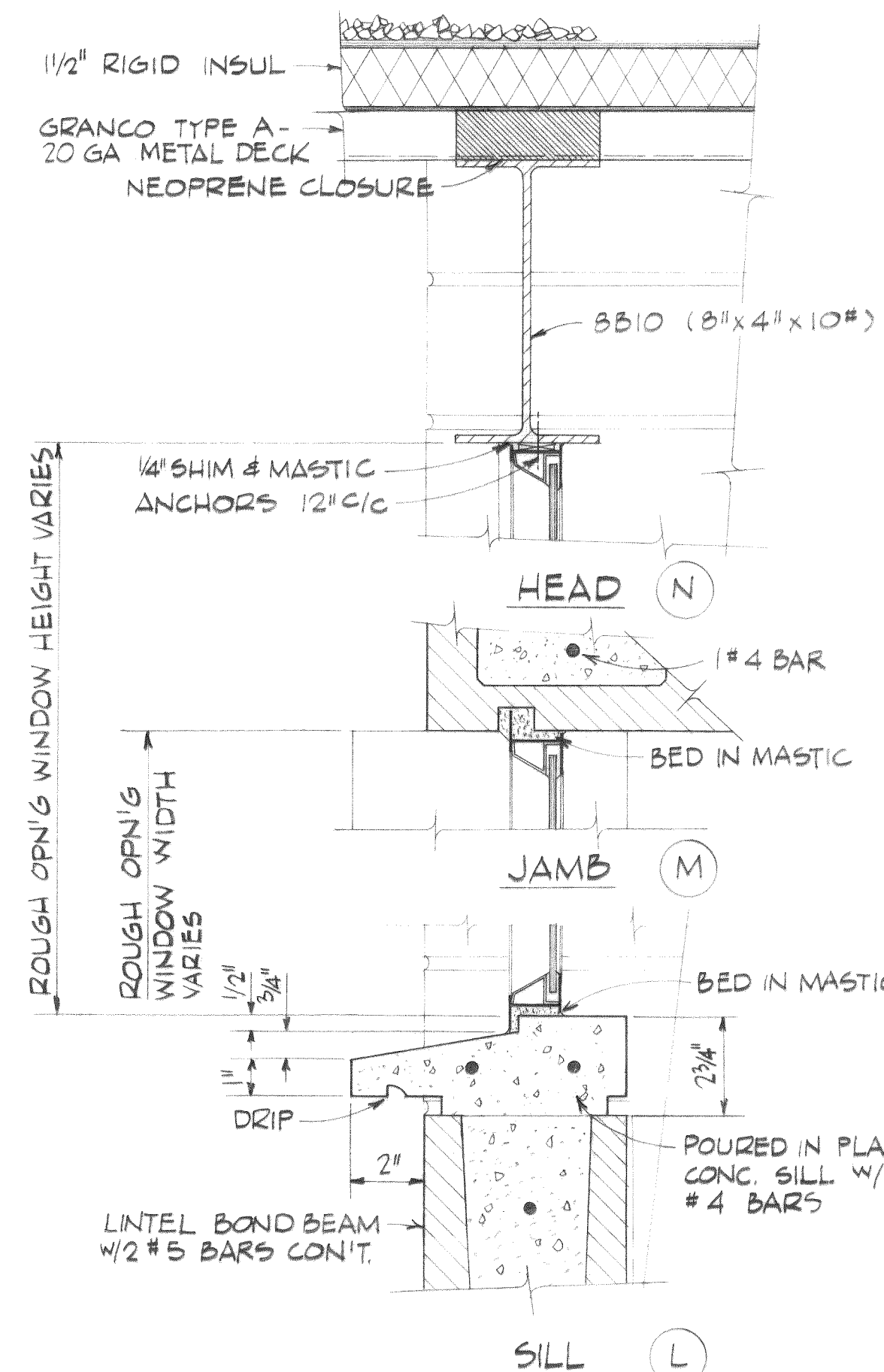
WALL SECTION S
(TYP @ CONCRETE SLAB)
3" = 1'-0"



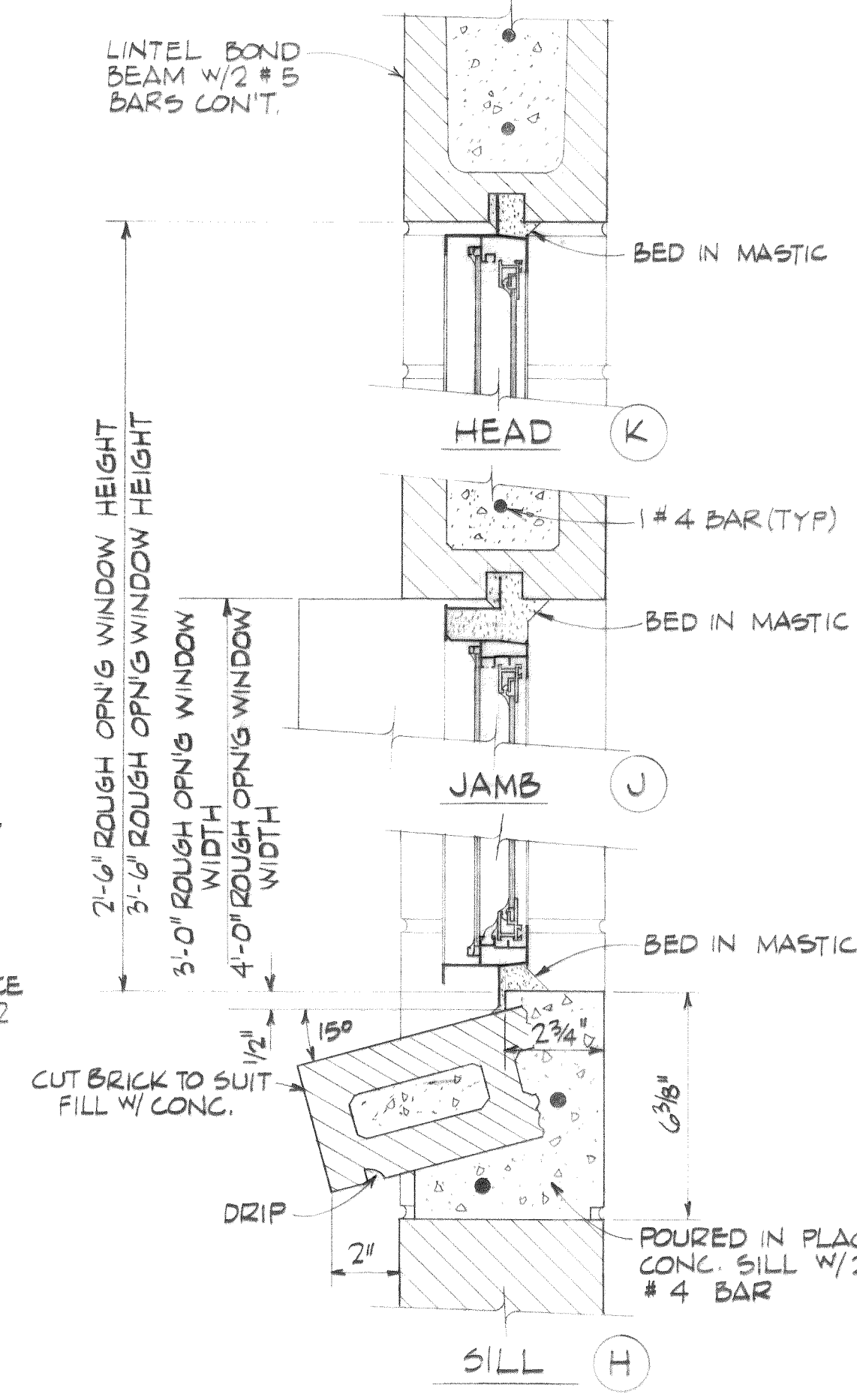
INTERIOR WINDOW DETAIL P
3" = 1'-0"



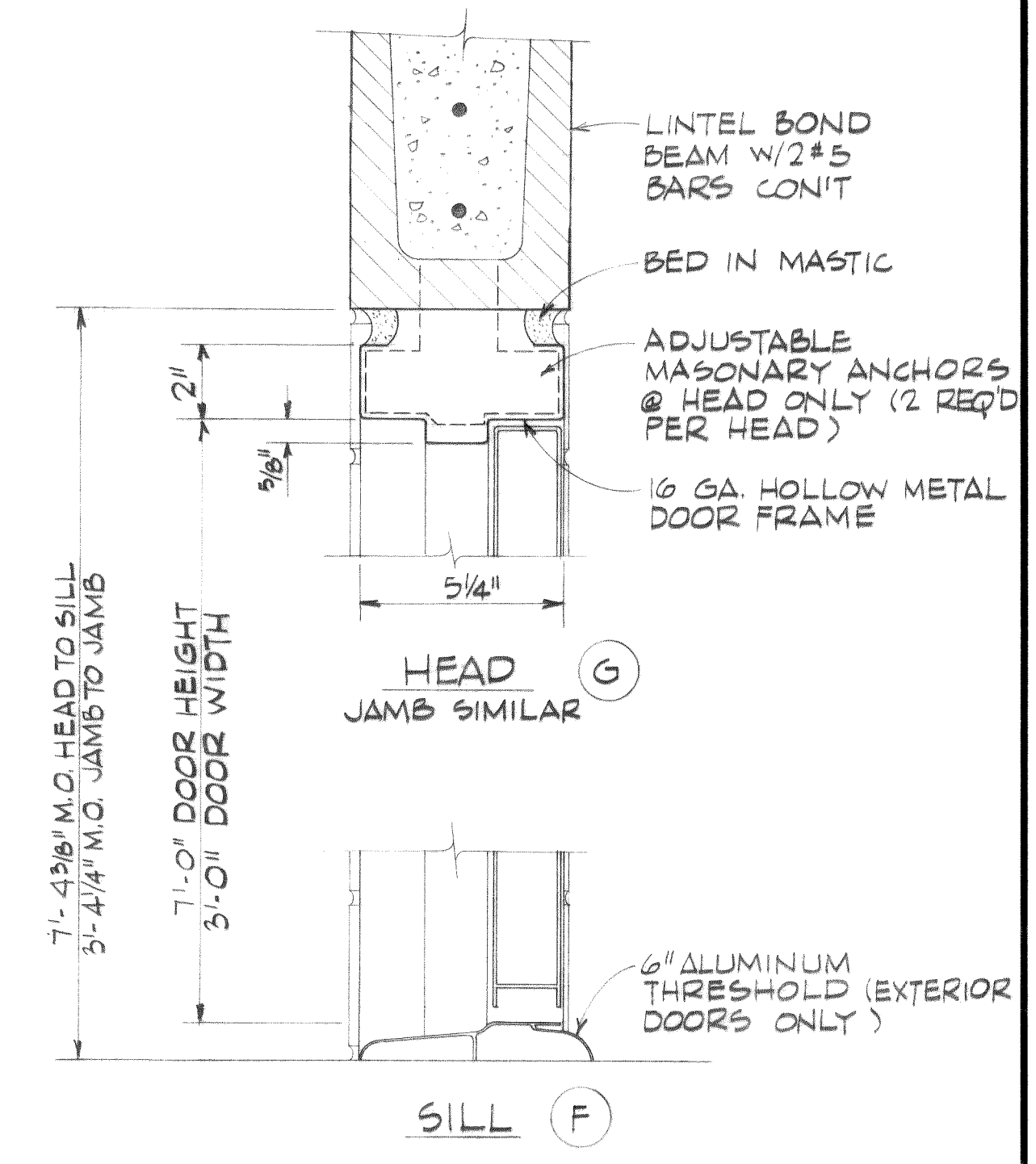
ROOF OVERHANG DETAIL R
1 1/2" = 1'-0"



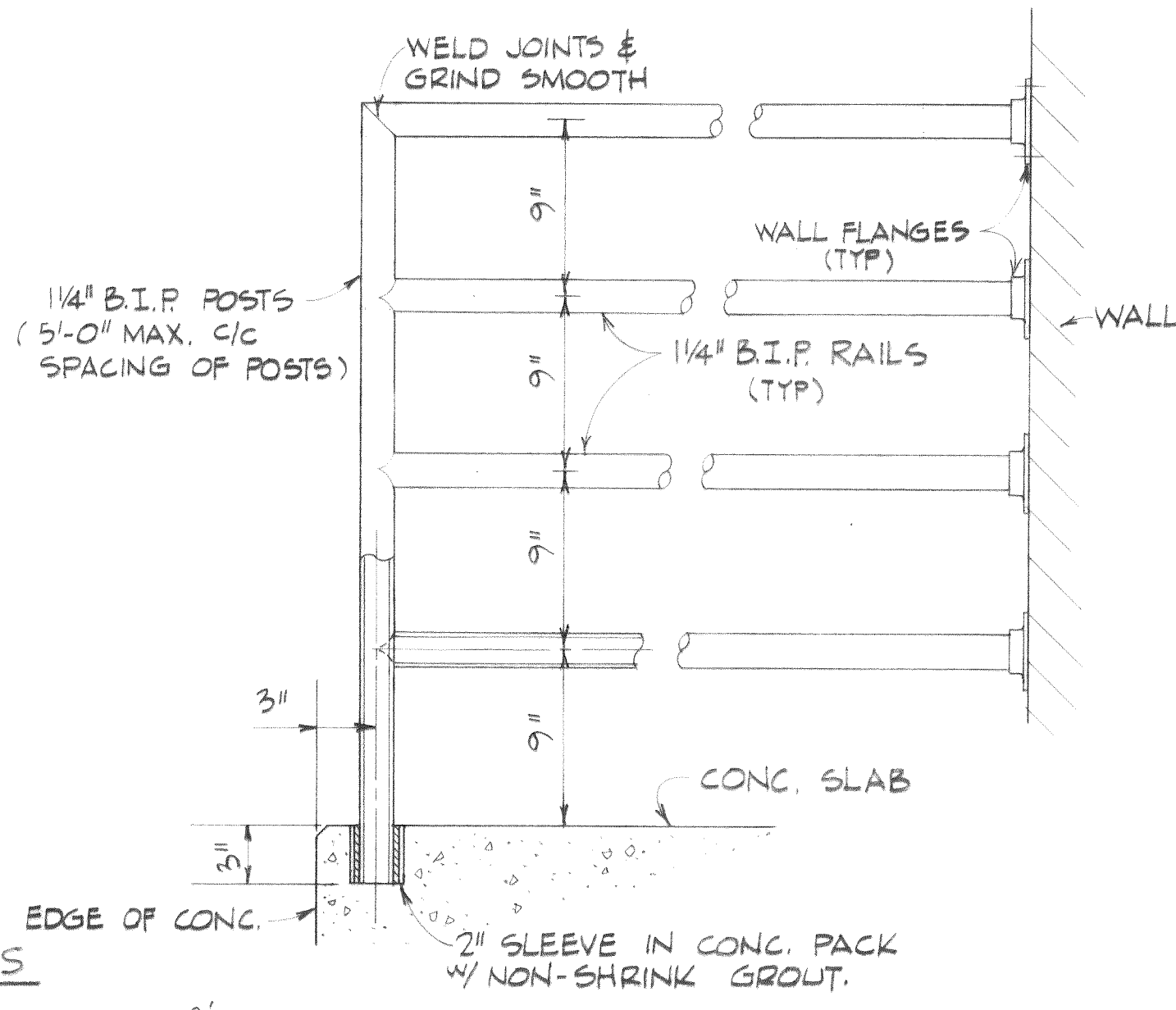
WINDOW DETAIL
3" = 1'-0"



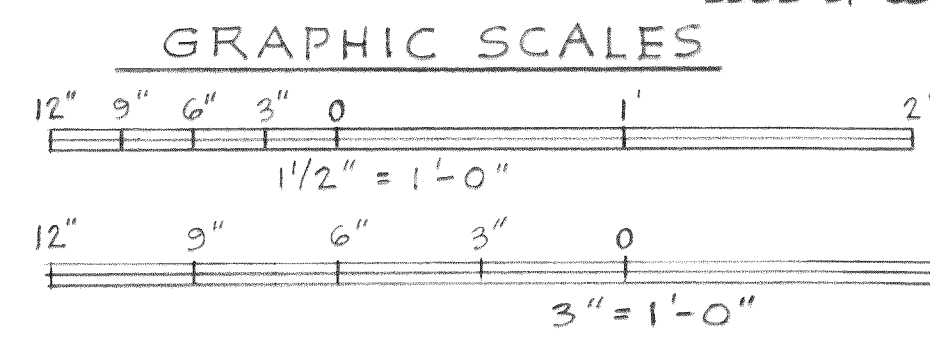
WINDOW DETAIL
3" = 1'-0"



DOOR DETAIL (TYPICAL)
3" = 1'-0"



HANDRAIL DETAIL (TYPICAL)
1 1/2" = 1'-0"



DESIGNED G. R. S.	APPROVED <i>A. R. Murray</i>
DRAWN L. R. M.	SCALE AS SHOWN
CHECKED T. S.	DATE JAN. 1969
FILE 67-S-168.002	

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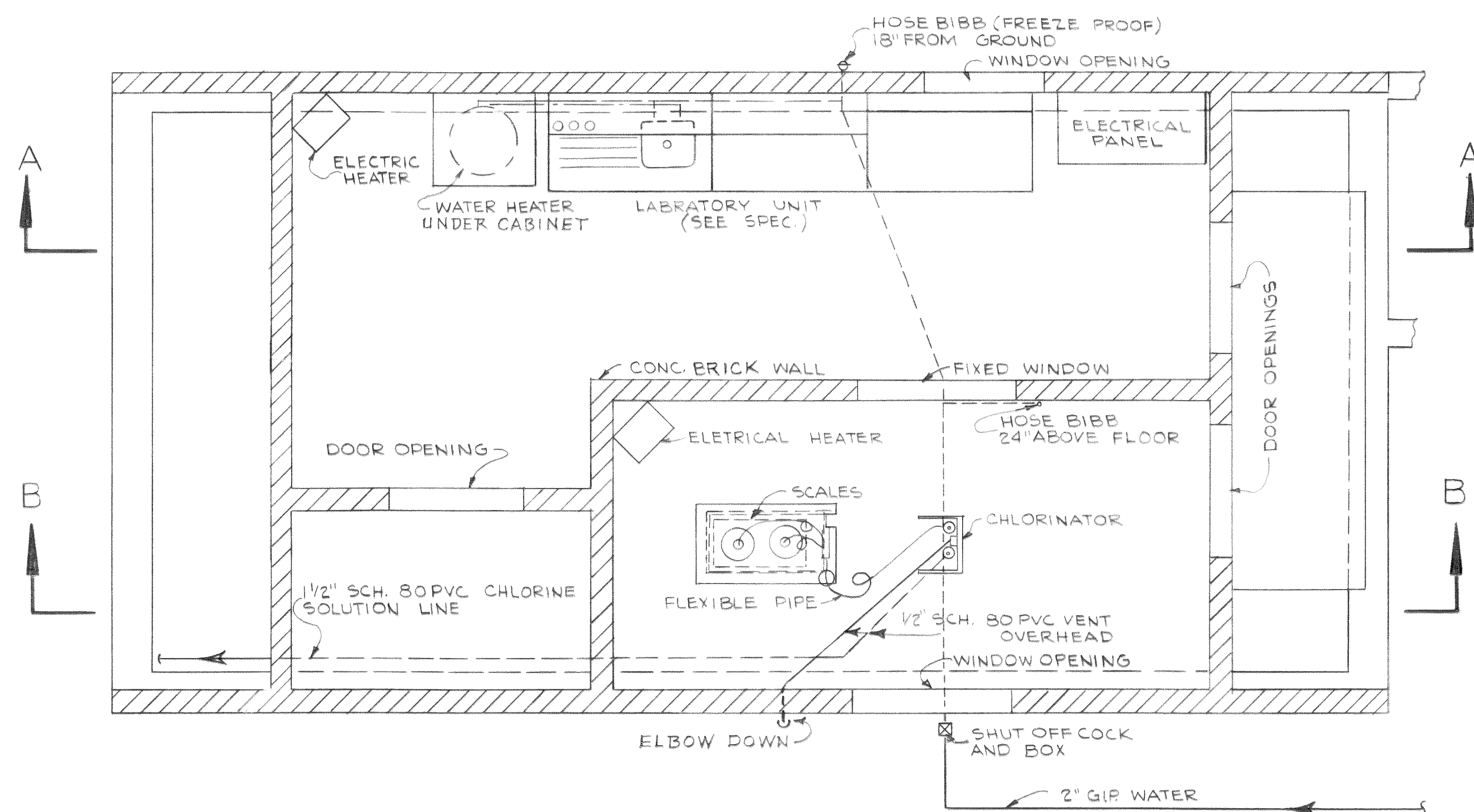
TOWN OF FERNDALE, WASHINGTON
TREATMENT AND PUMPING FACILITIES
SCHEDULE I

CHLORINATION BLDG.-ARCHITECTURAL
DETAILS

MICROFILMED

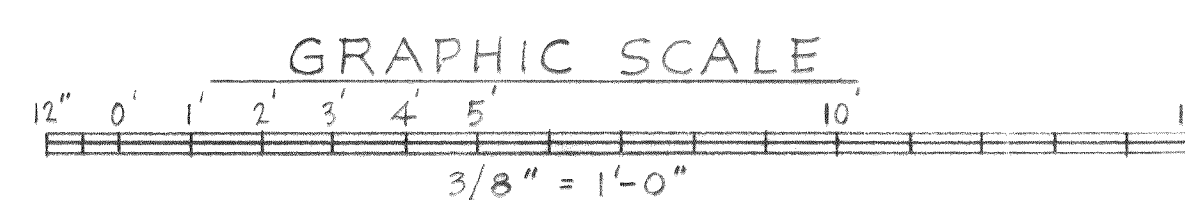
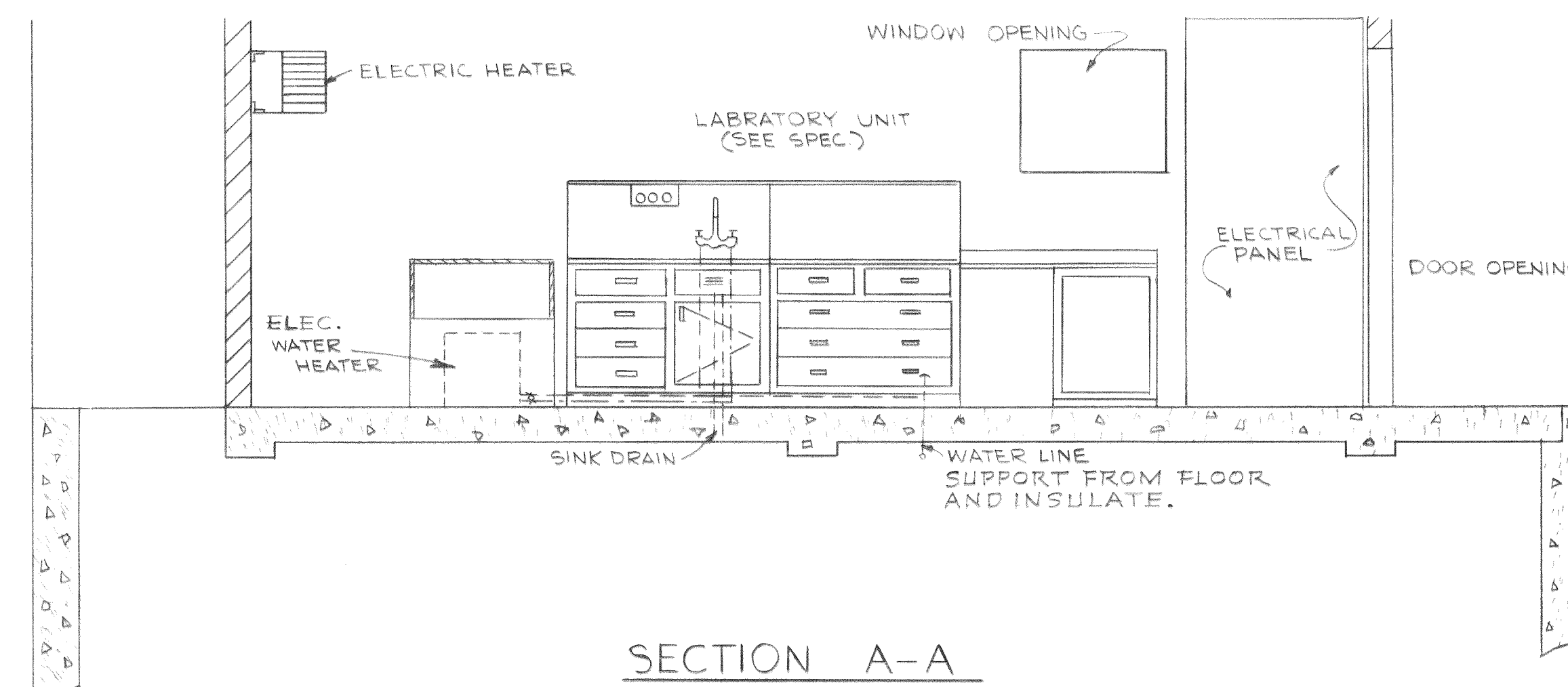
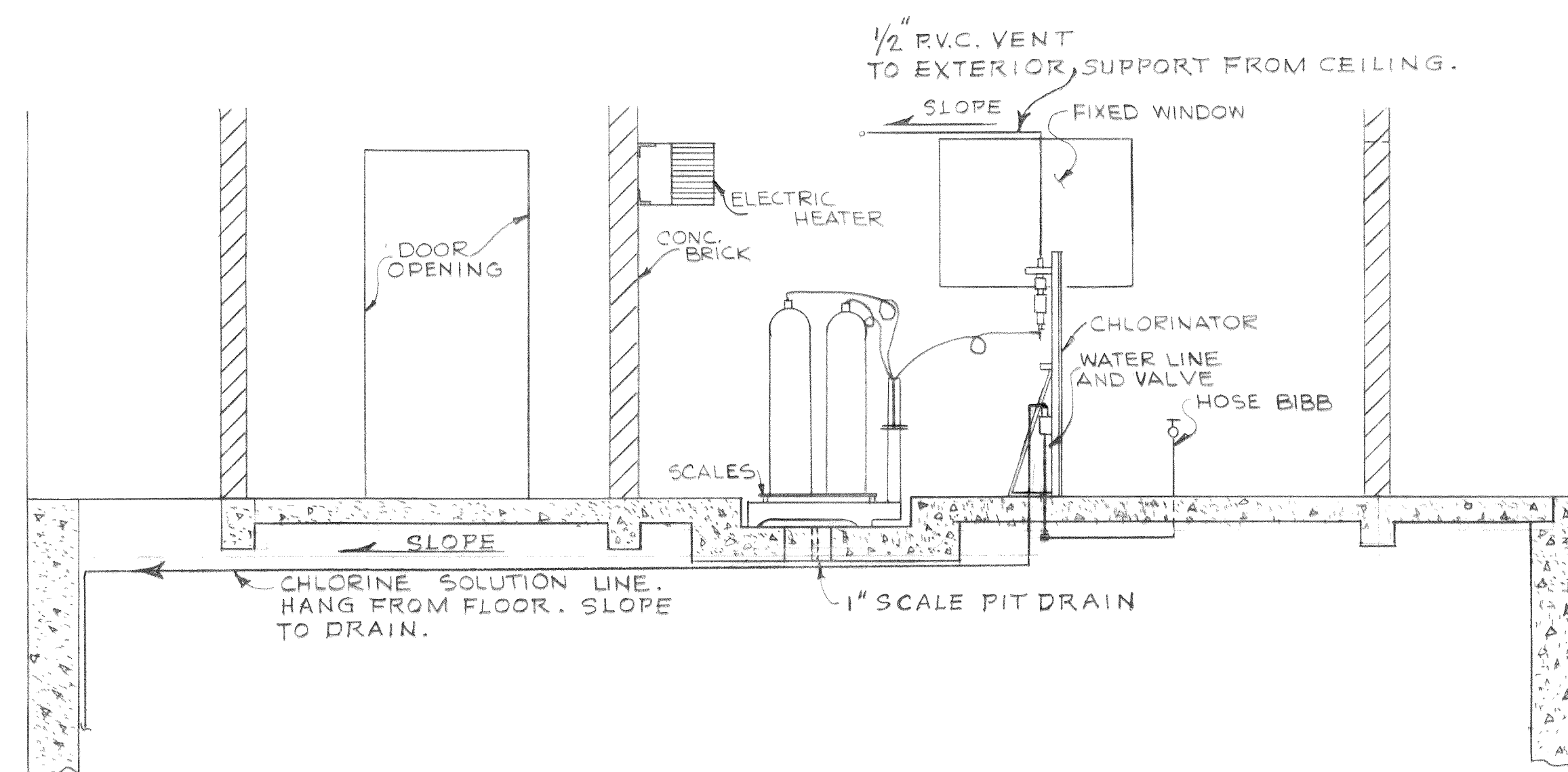
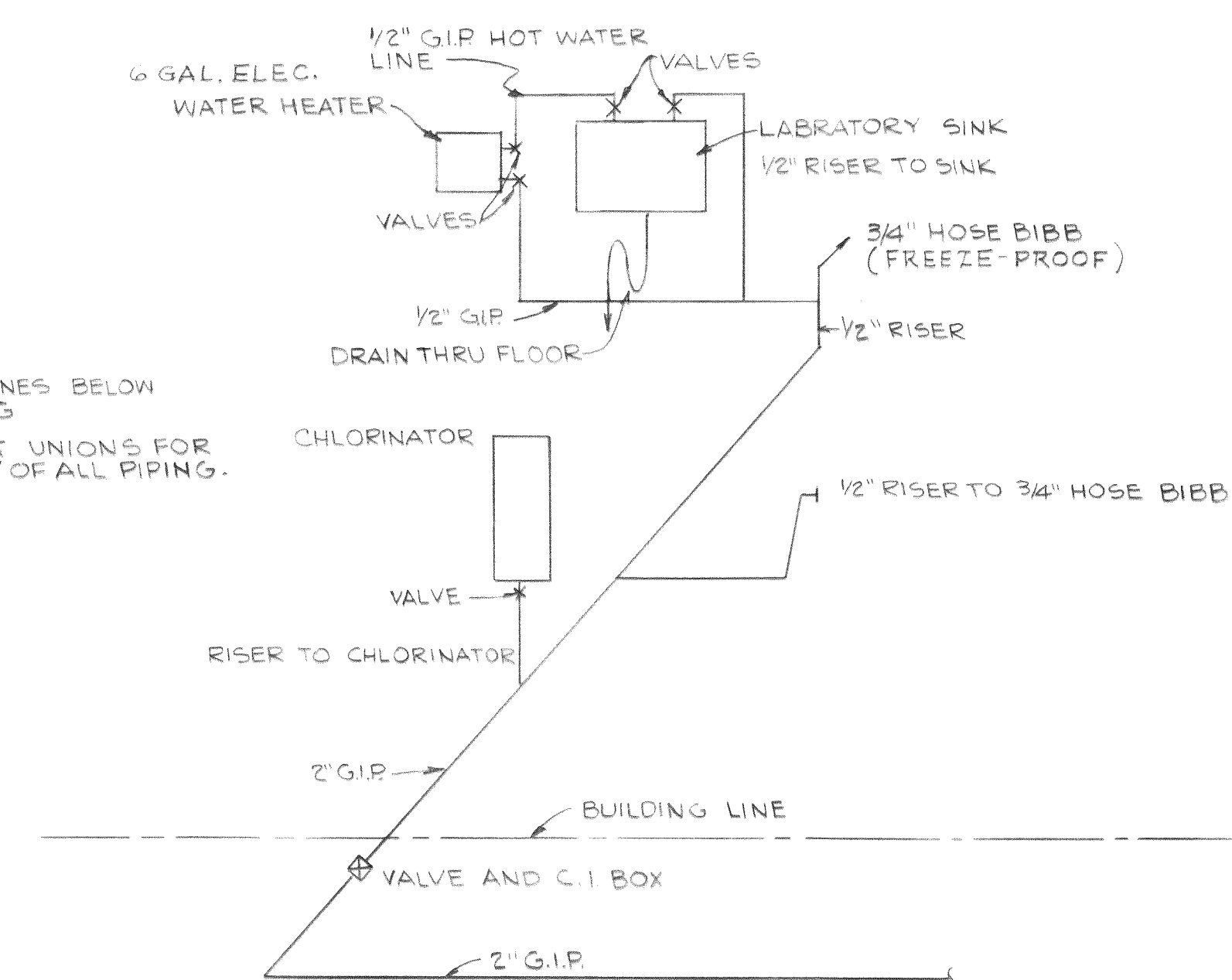
Dwg # 67-S-168.002-19

00205.DWG 2.6.04 KR



NOTES:

1. INSULATE WATER LINES BELOW FLOOR OF BUILDING
2. PROVIDE SUFFICIENT UNIONS FOR EASY DISASSEMBLY OF ALL PIPING.



DESIGNED T.S.	APPROVED <i>L. M. R.</i>
DRAWN L. M. R.	SCALE AS SHOWN DATE JAN. 1969
CHECKED T.S.	FILE 67-S-168,002



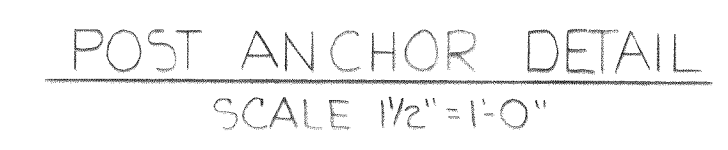
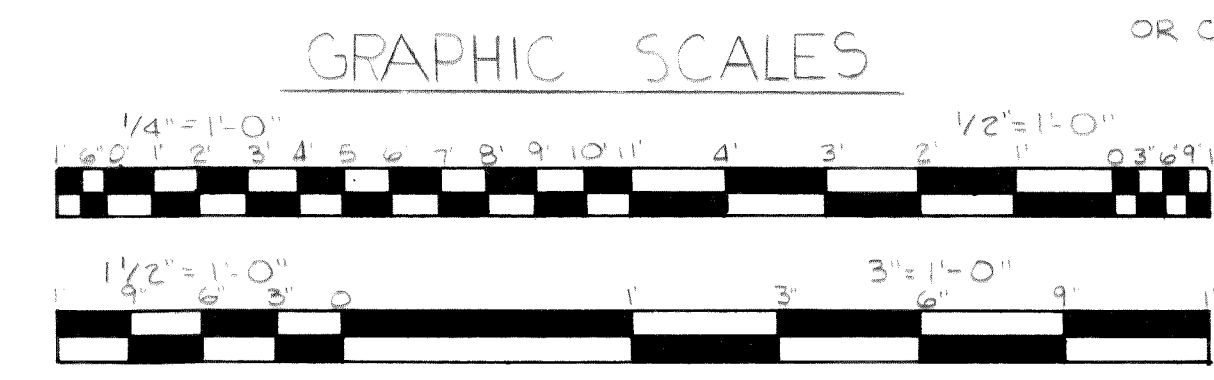
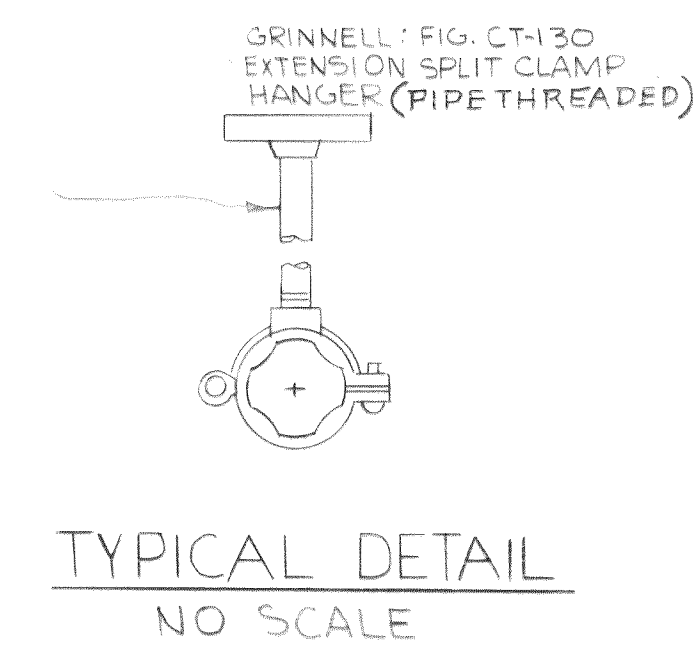
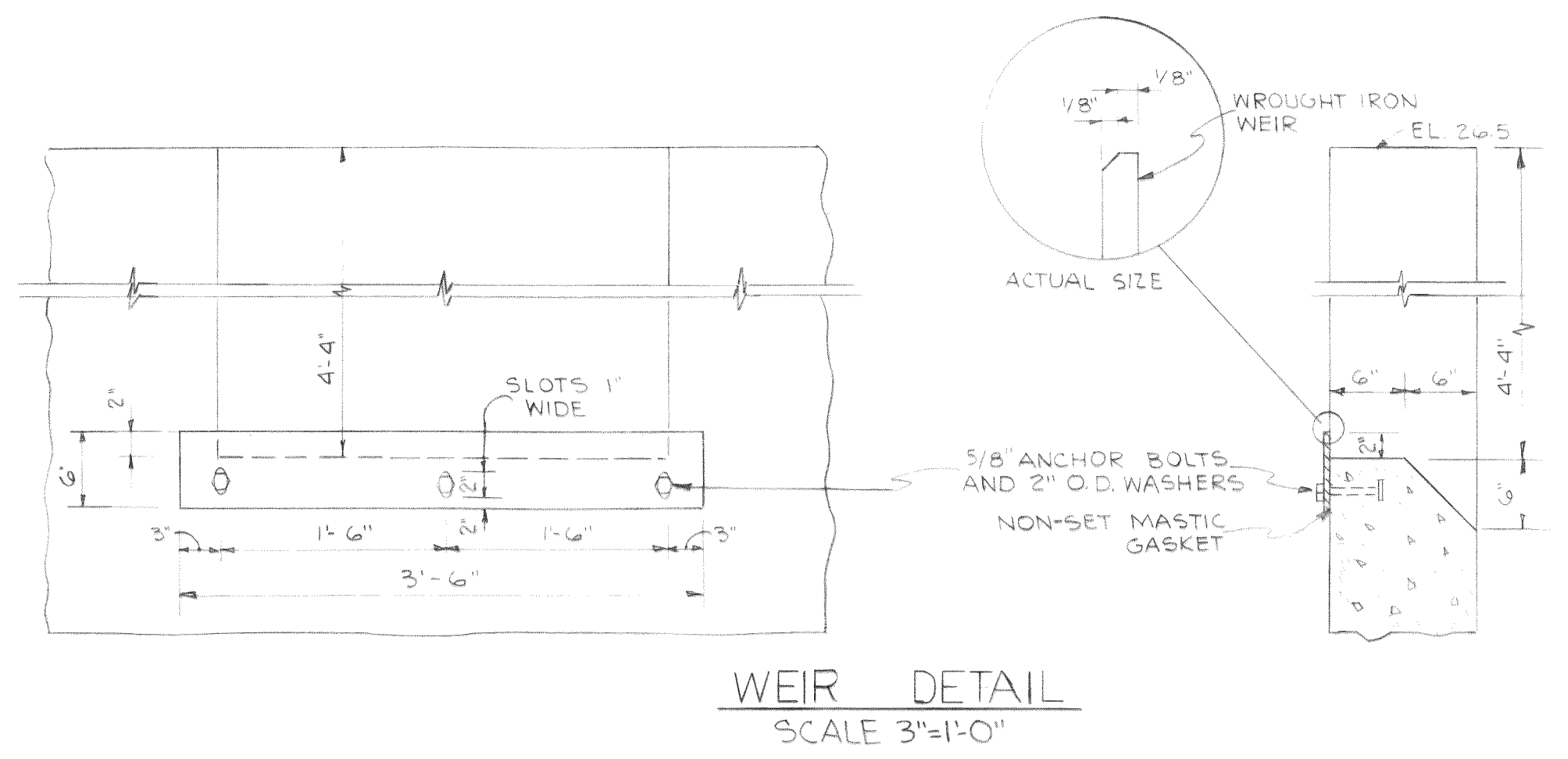
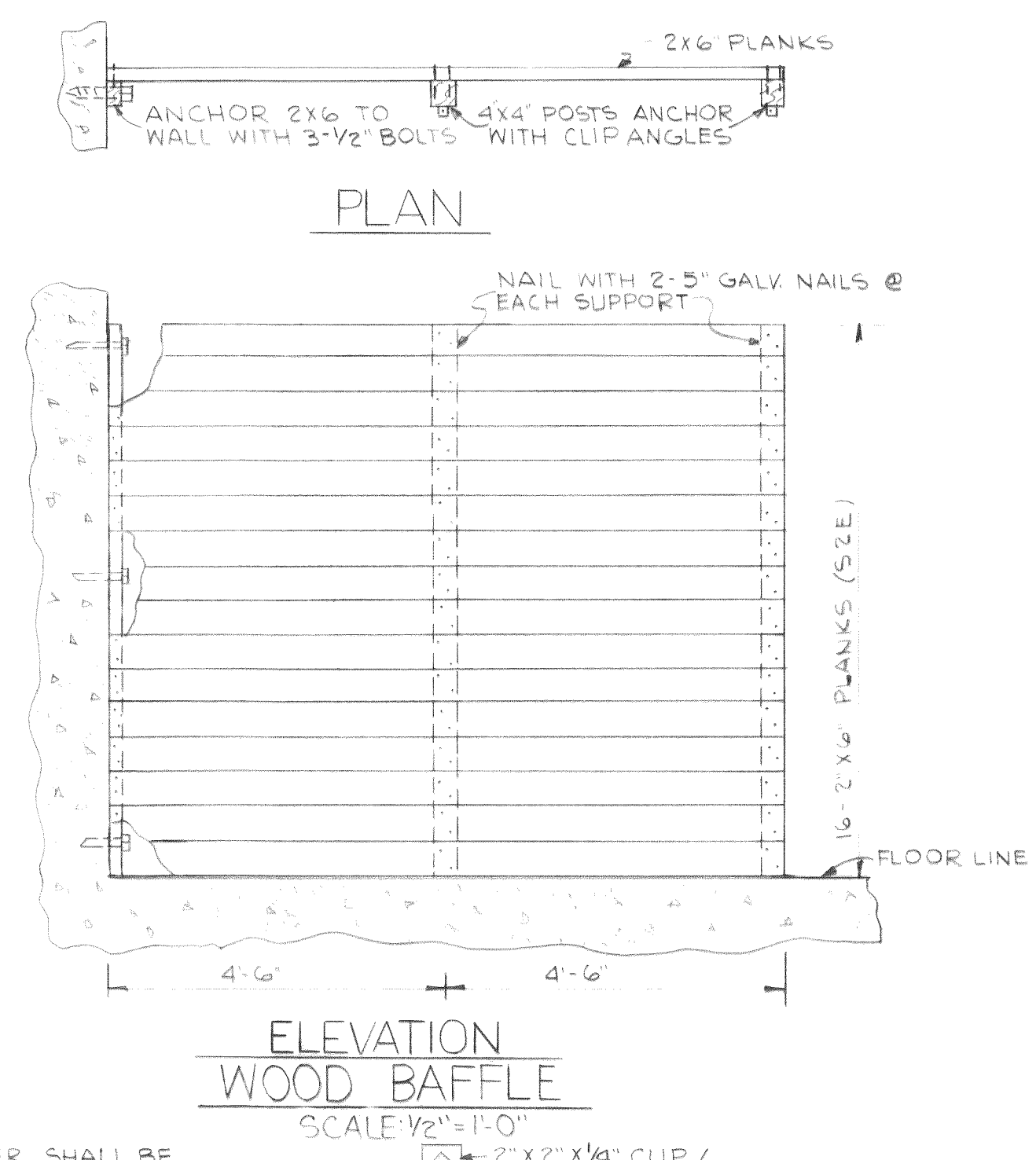
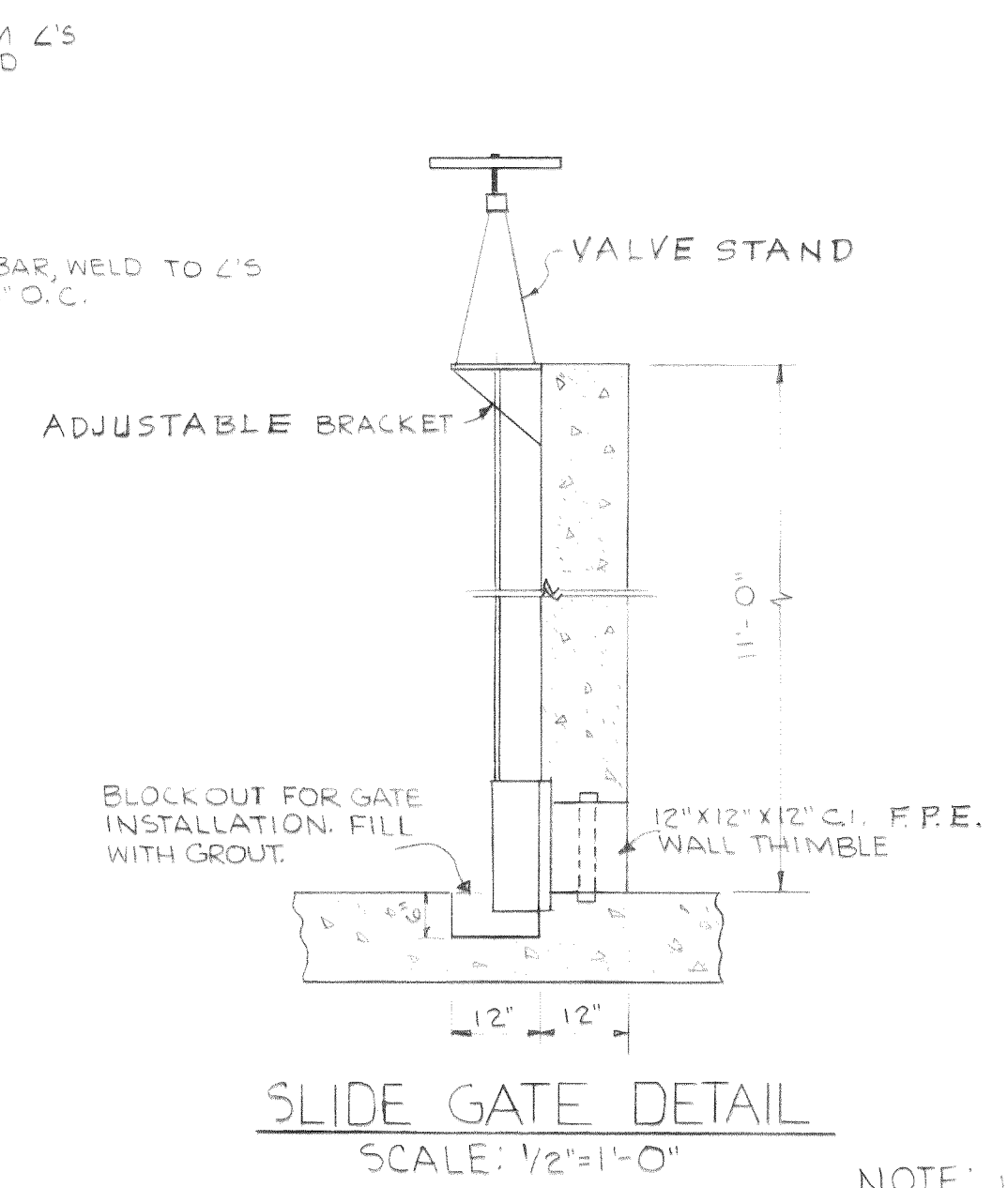
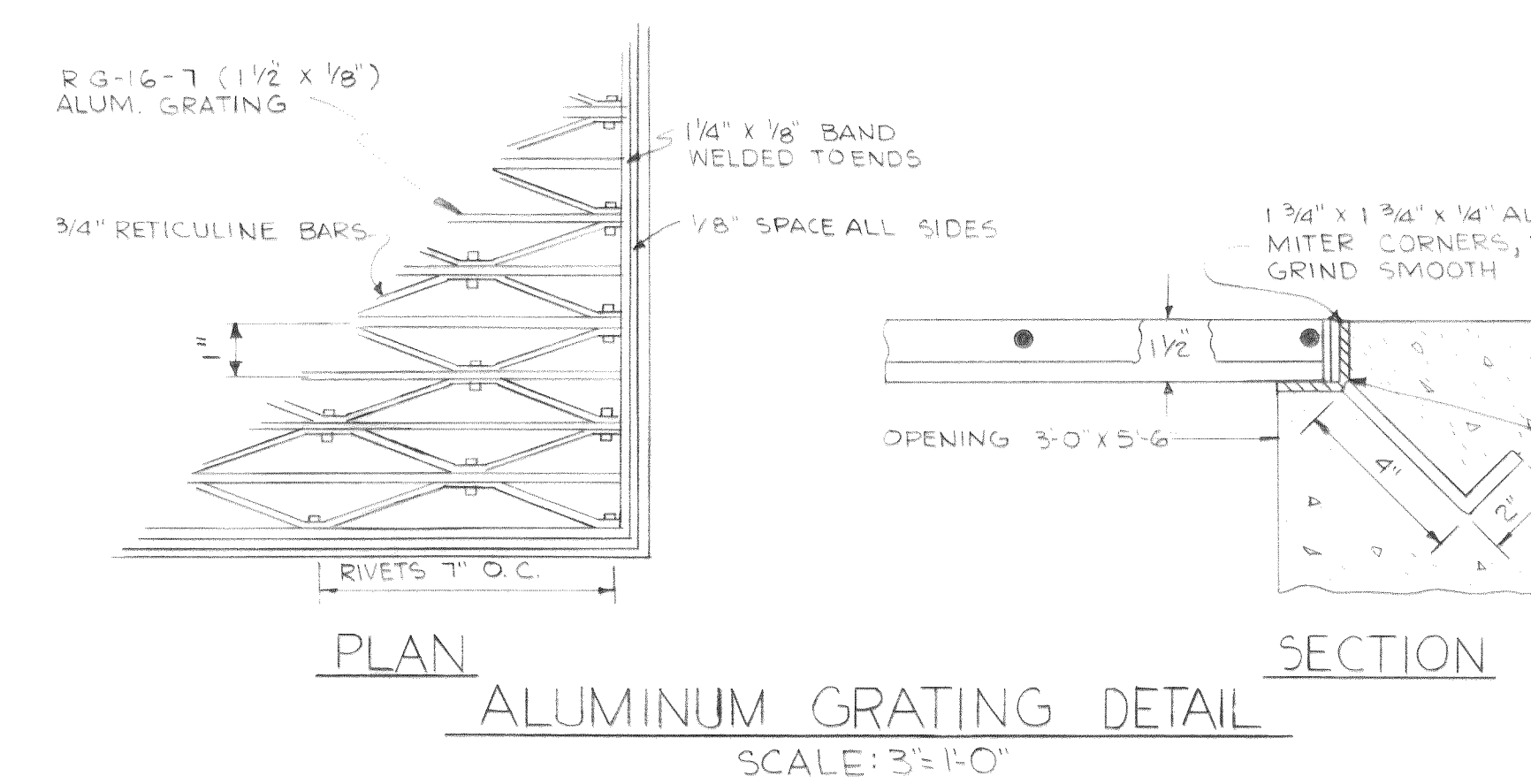
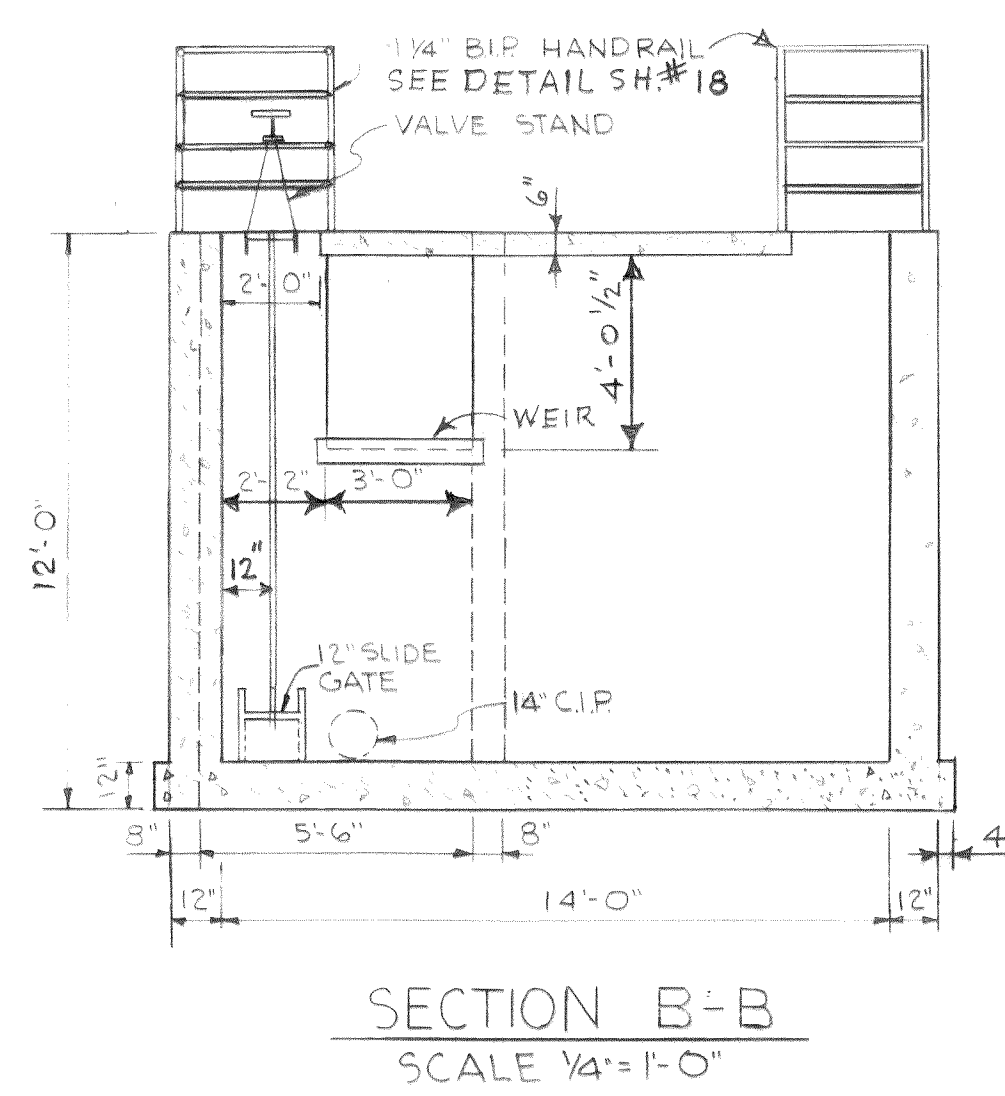
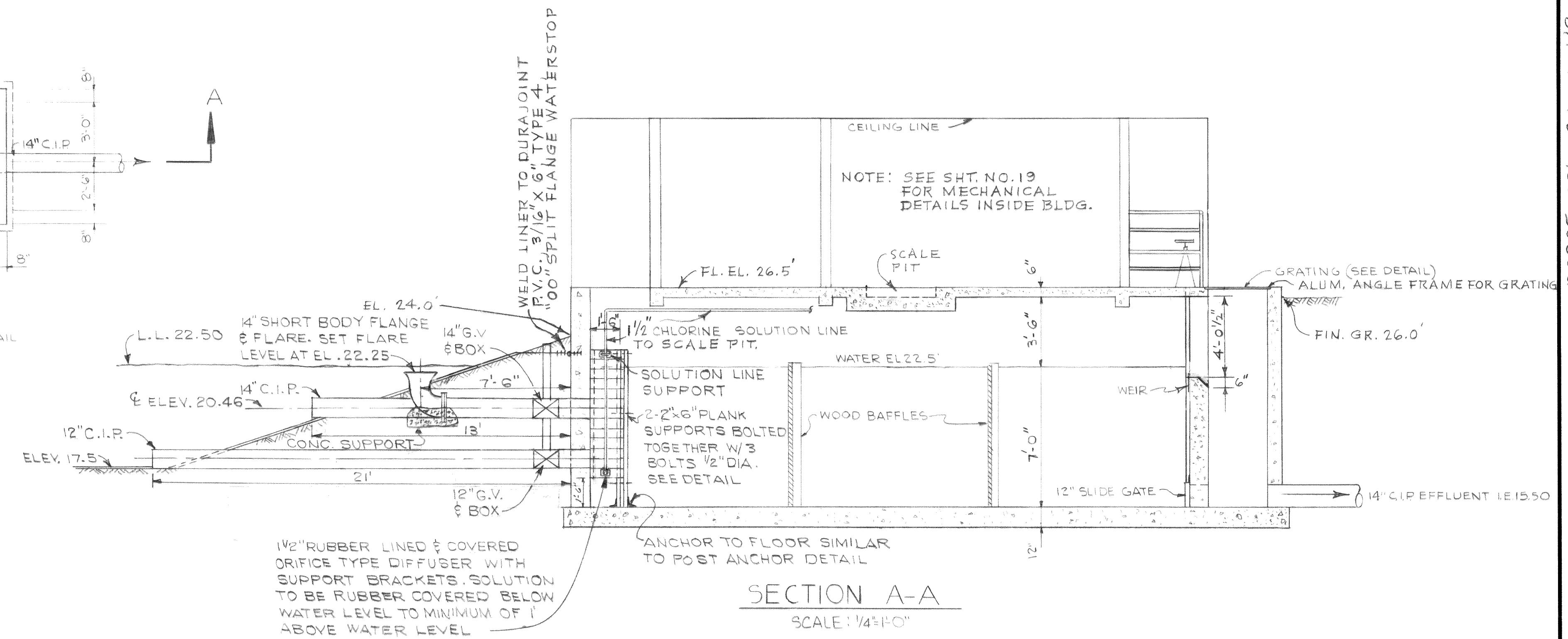
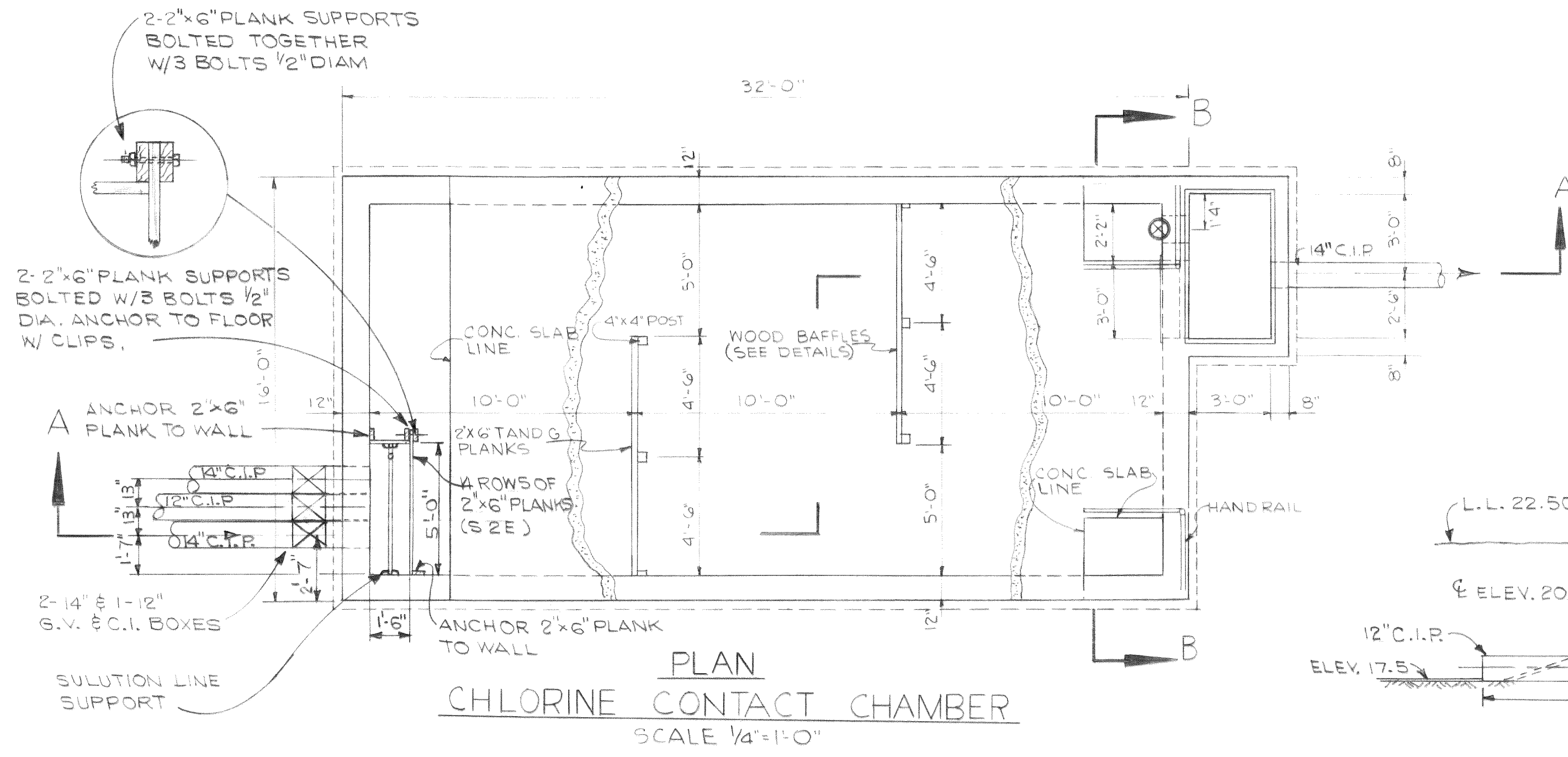
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Engineers/Planners
PORTLAND, OREGON SEATTLE, WASHINGTON

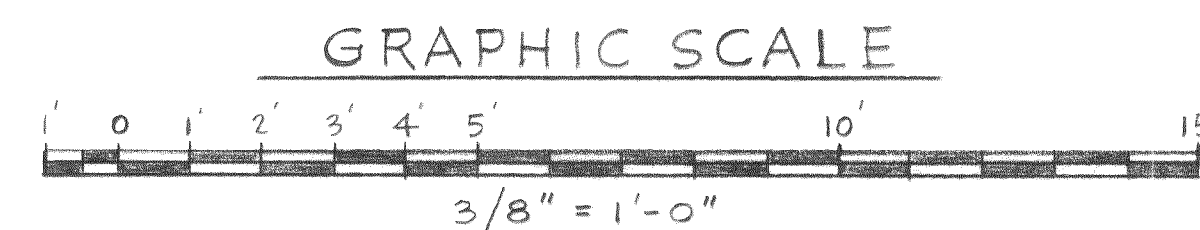
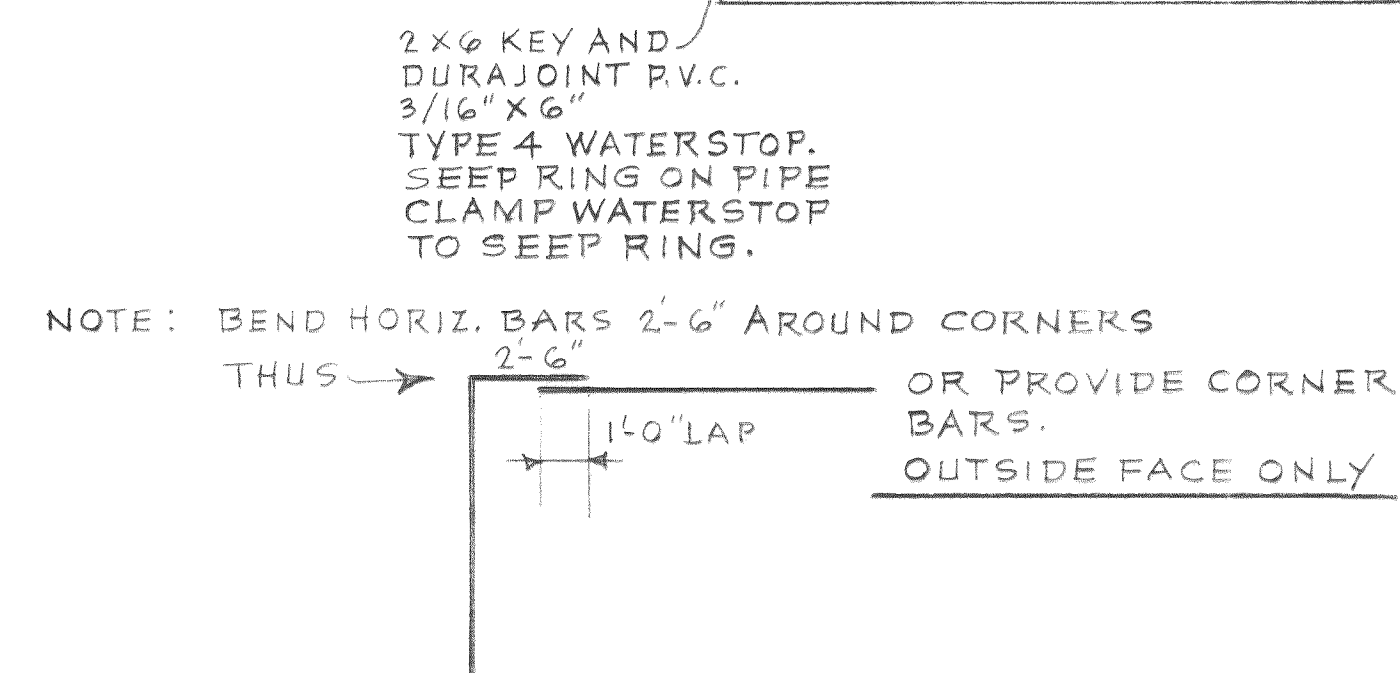
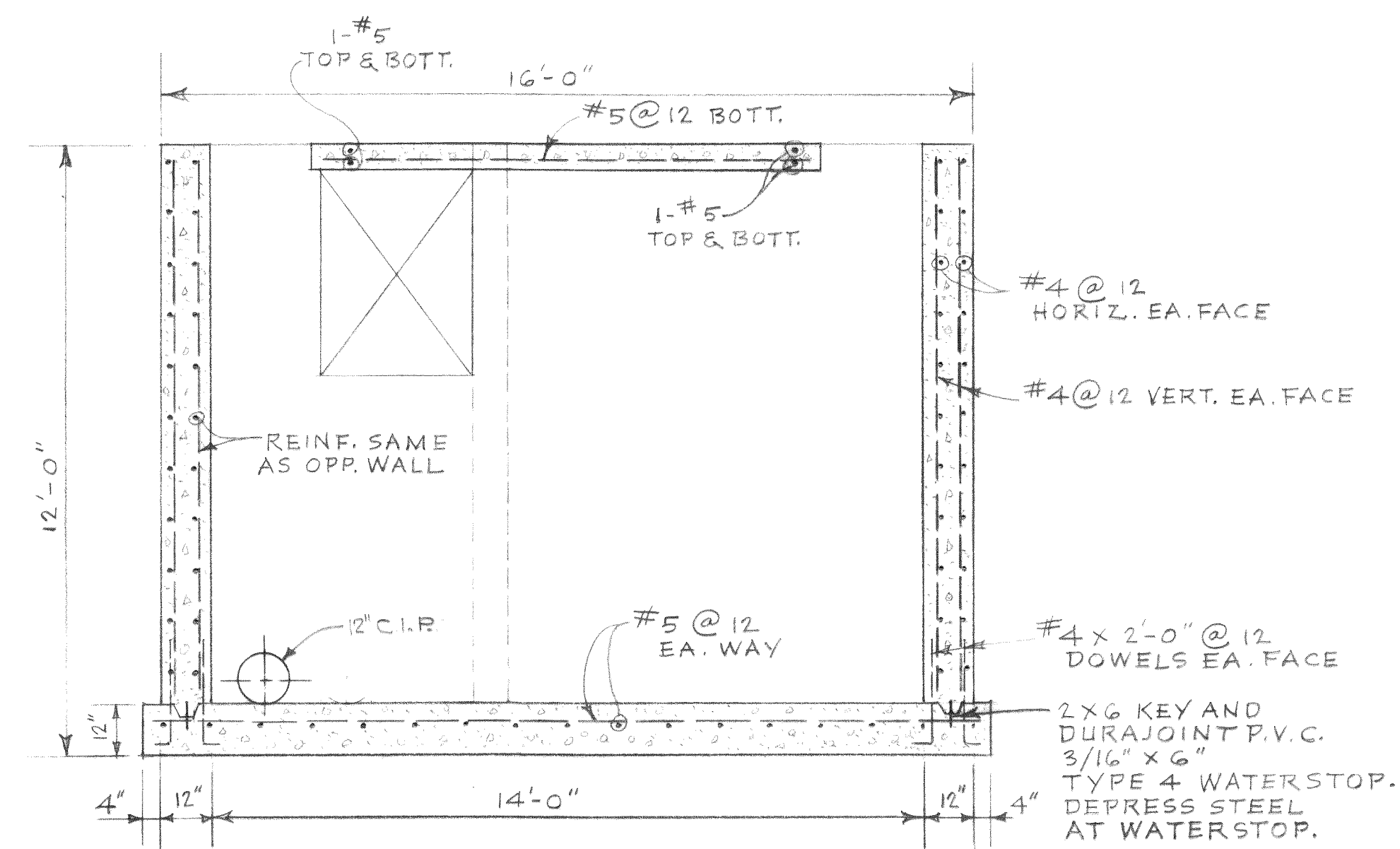
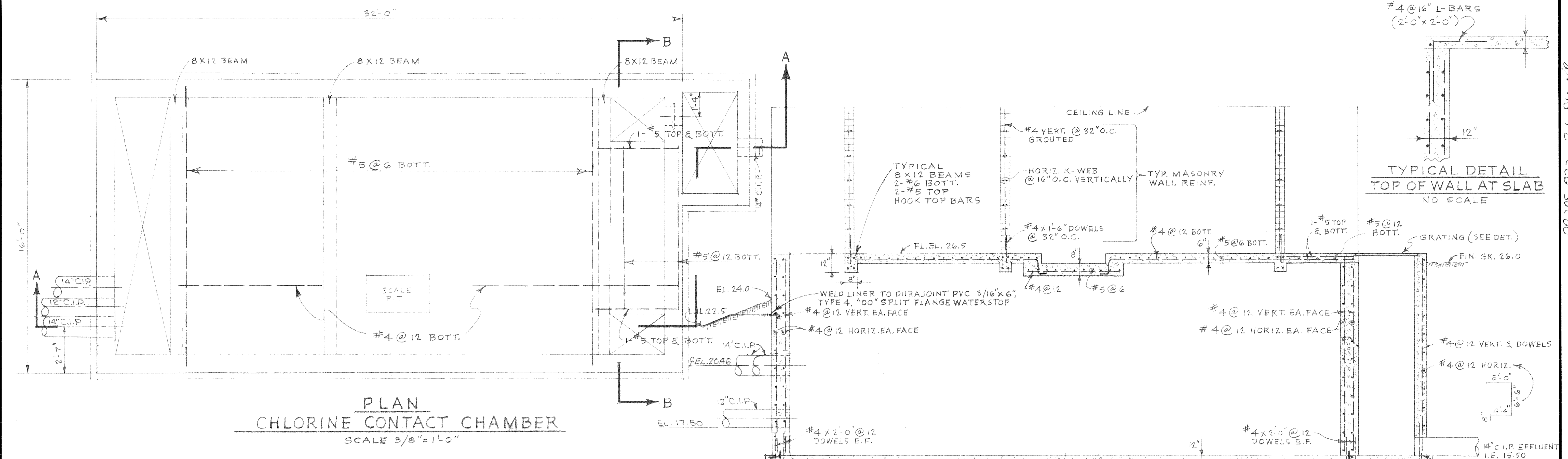
TOWN OF FERDALE, WASHINGTON
TREATMENT AND PUMPING FACILITIES
SCHEDULE I

CHLORINATION BLDG.-MECHANICAL
PLAN AND SECTIONS

19
23

MICROFILMED Dwg # 67-S-168,002-20





				DESIGNED J. S.	APPROVED <i>J. S. L. J. M.</i>	
				DRAWN L. J. M.	SCALE AS SHOWN	DATE JAN. 1969
DATE	NO.	REVISION	BY	CHECKED T. S.	FILE 67-S-168.002	



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Engineers/Planners
PORTLAND, OREGON SEATTLE, WASHINGTON

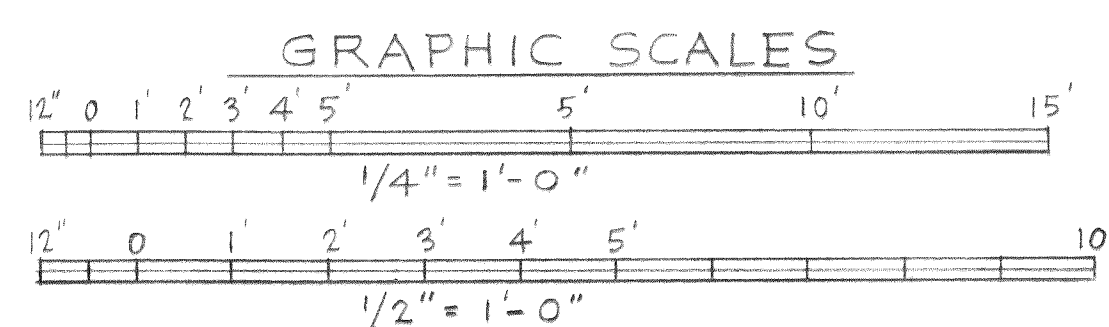
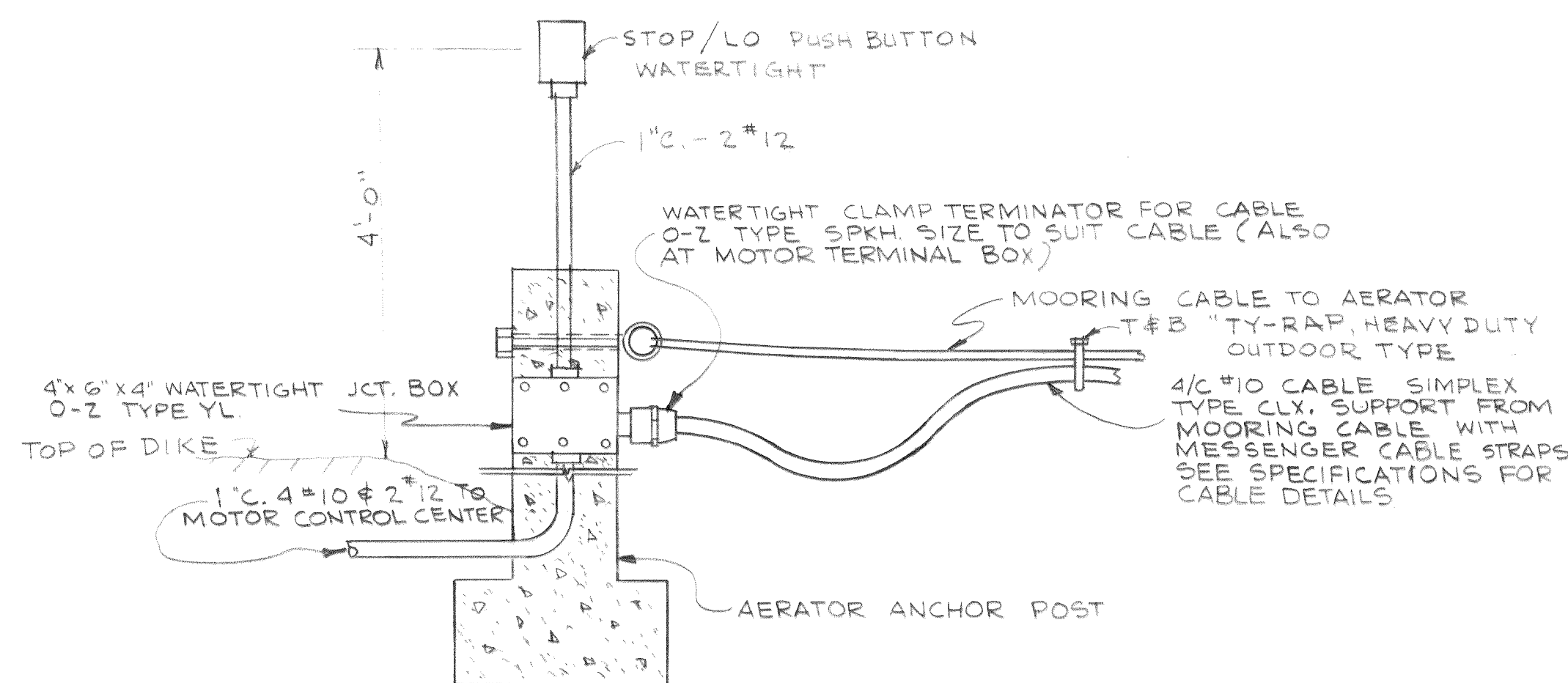
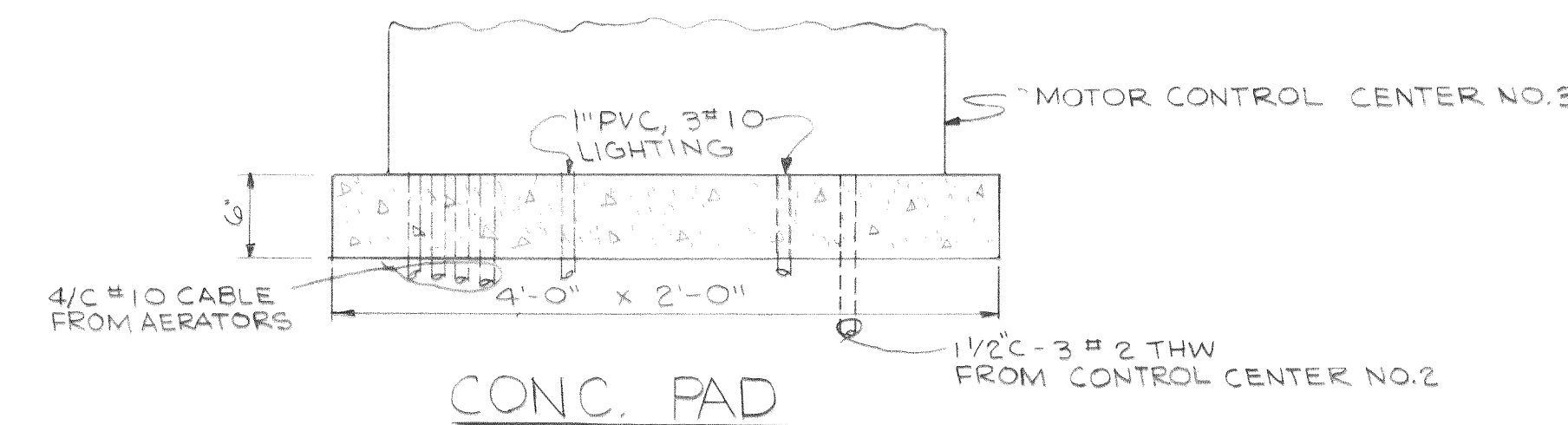
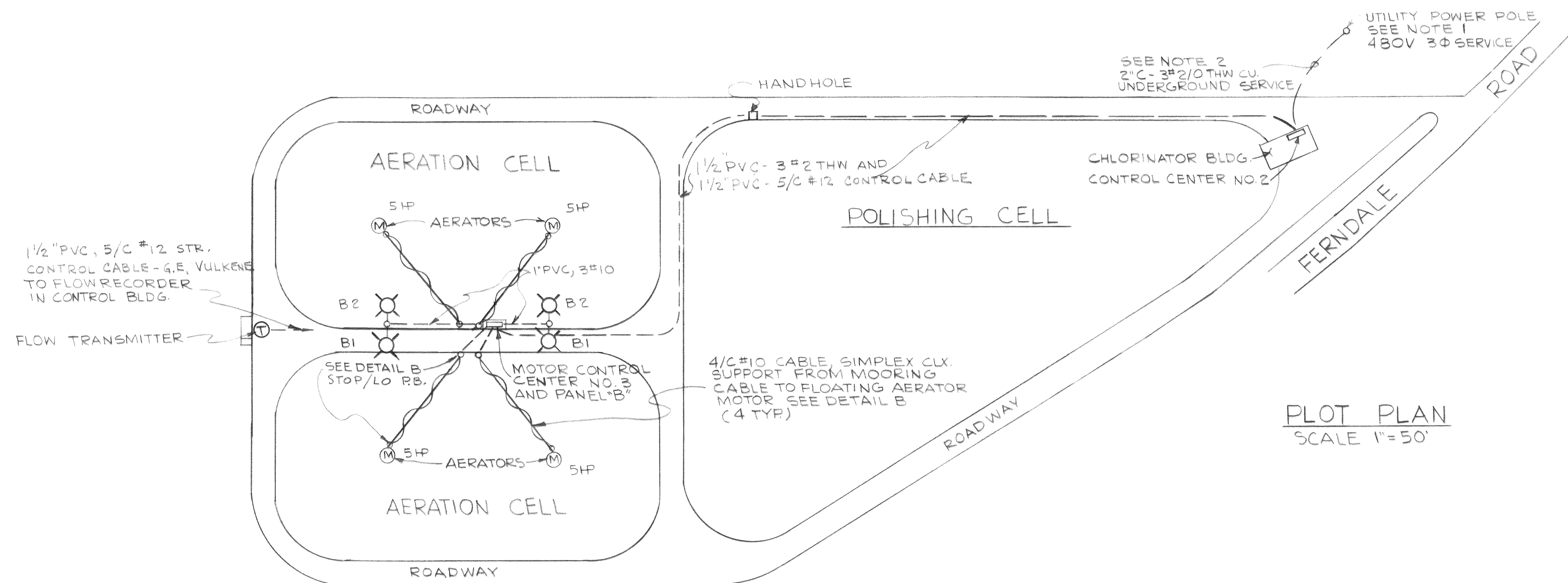
TOWN OF FERNDALE, WASHINGTON
TREATMENT AND PUMPING FACILITIES
SCHEDULE I

CHLORINE CONTACT - STRUCTURAL CHAMBER

$$\frac{21}{23}$$

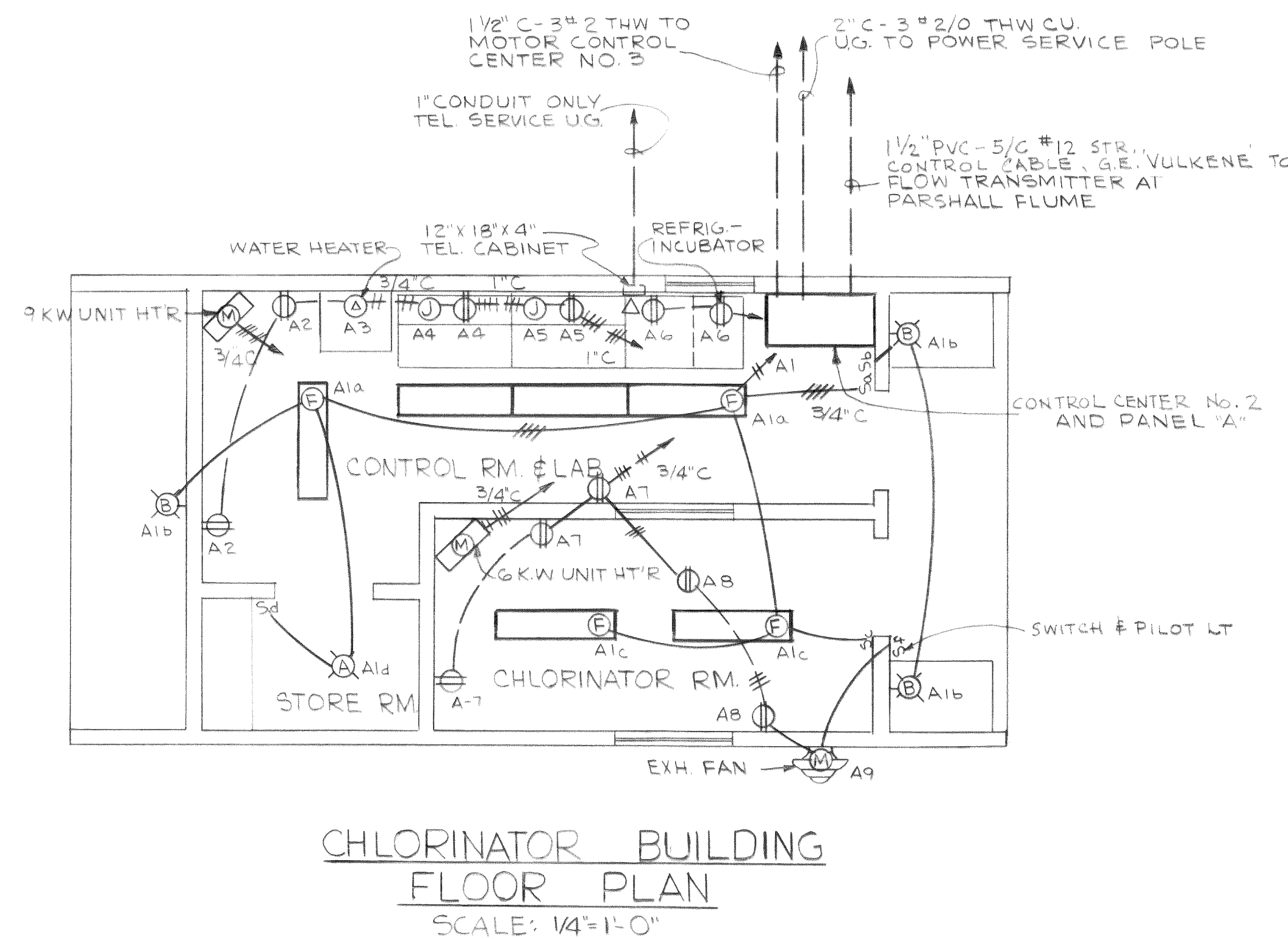
MICROFILMED Dwg # 67-5-168002-22

00 205.023 2-4-06 KL



PANEL A				
CIR NO.	BREAKER AMP POLES	LOAD WATTS	SERVES	
1	20 SP	1600	LIGHTS	
2	20 SP	1000	RECEPTS.	
3	20 2P	1500	WATER HEATER	
4	20 SP	1000	LAB. TABLE OUTLETS	
5	20 SP	1000	LAB. TABLE OUTLETS	
6	20 SP	1000	RECEPTS.	
7	20 SP	1000	REFRIG. - INCUBATOR	
8	20 SP	1200	CHLORINATOR - RECEPT	
9	20 SP	1/2 HP	EXHAUST FAN	
10	15 SP	1/4 HP	UNIT HEATER FAN	
11	15 SP	1/4 HP	UNIT HEATER FAN	
12	20 SP		SPARE	
13	20 SP		SPARE	
14	20 SP		SPARE	
15	20 SP		SPARE	

PANEL B				
1	20 SP	1000	FLOOD LIGHTS	
2	20 SP	1000	FLOOD LIGHTS	
3	20 SP	1000	RECECTABLES	
4	15 SP		MOTOR CONTROL BUS	
5	20 SP		SPARE	
6	20 SP		SPARE	
7	20 SP		SPARE	



NOTE: VERIFY LOCATIONS AND CONNECTIONS FOR LABORATORY EQUIPMENT OUTLETS AND CHLORINATOR, BEFORE ROUGH-IN.



MICROFILMED

DESIGNED J.L.	APPROVED <i>J.L. Runyan</i>
DRAWN L.M.R.	SCALE AS SHOWN DATE JAN. 1969
CHECKED T.S.	FILE 67-S-168.002

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Engineers/Planners
PORTLAND, OREGON SEATTLE, WASHINGTON

TOWN OF FERNDAL, WASHINGTON
TREATMENT AND PUMPING FACILITIES
SCHEDULE I

CHLORINATOR BUILDING
ELECTRICAL
PLOT PLAN AND DETAILS

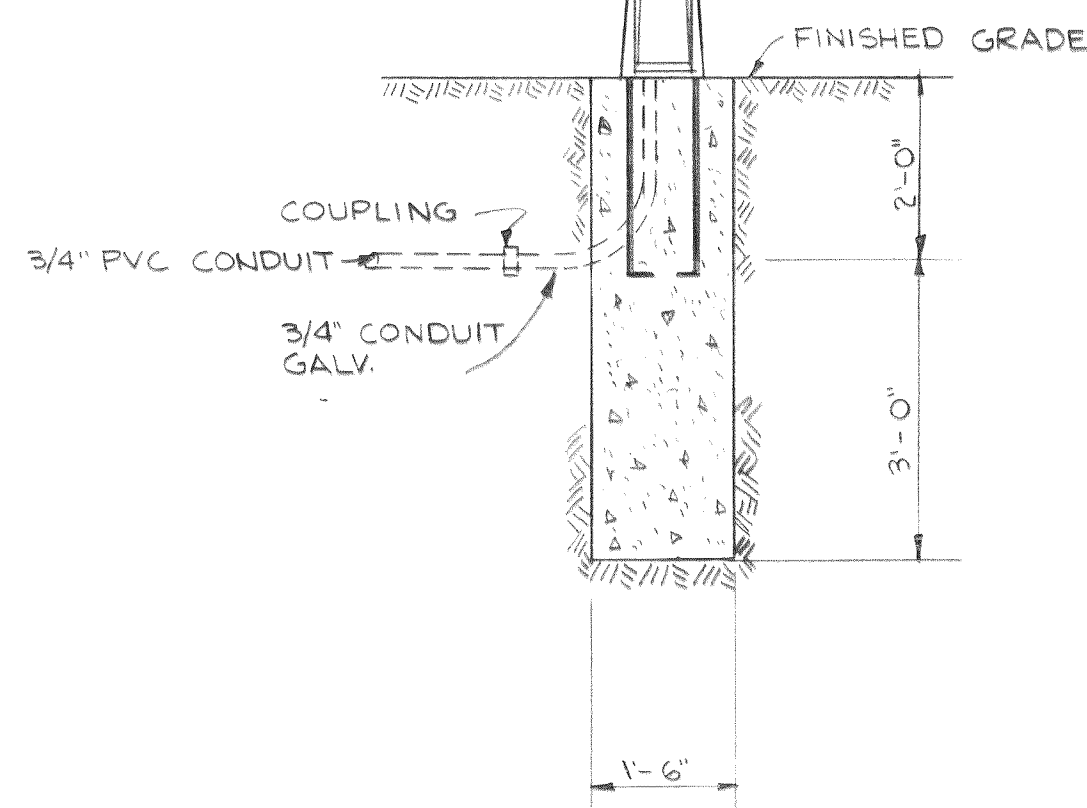
22
23

Dwg # 67-S-168.002-23

WESTINGHOUSE SILVERLINER LUMINAIRE CAT# 656A302, G14 (240 VOLT) (WITH BUILT-IN BALLAST) AND 400 WATT MERCURY LAMP (COLOR IMPROVED). EACH UNIT PHOTO-CELL CONTROLLED.

TAPERED SPUN ALUMINUM (ALUMILITED) POLE WITH 25 FT. HIGH, 9 FT. MTG. ARMS MONOTUBE LIGHTING POLE CAT# 920Y63 OR APPROVED EQUAL.

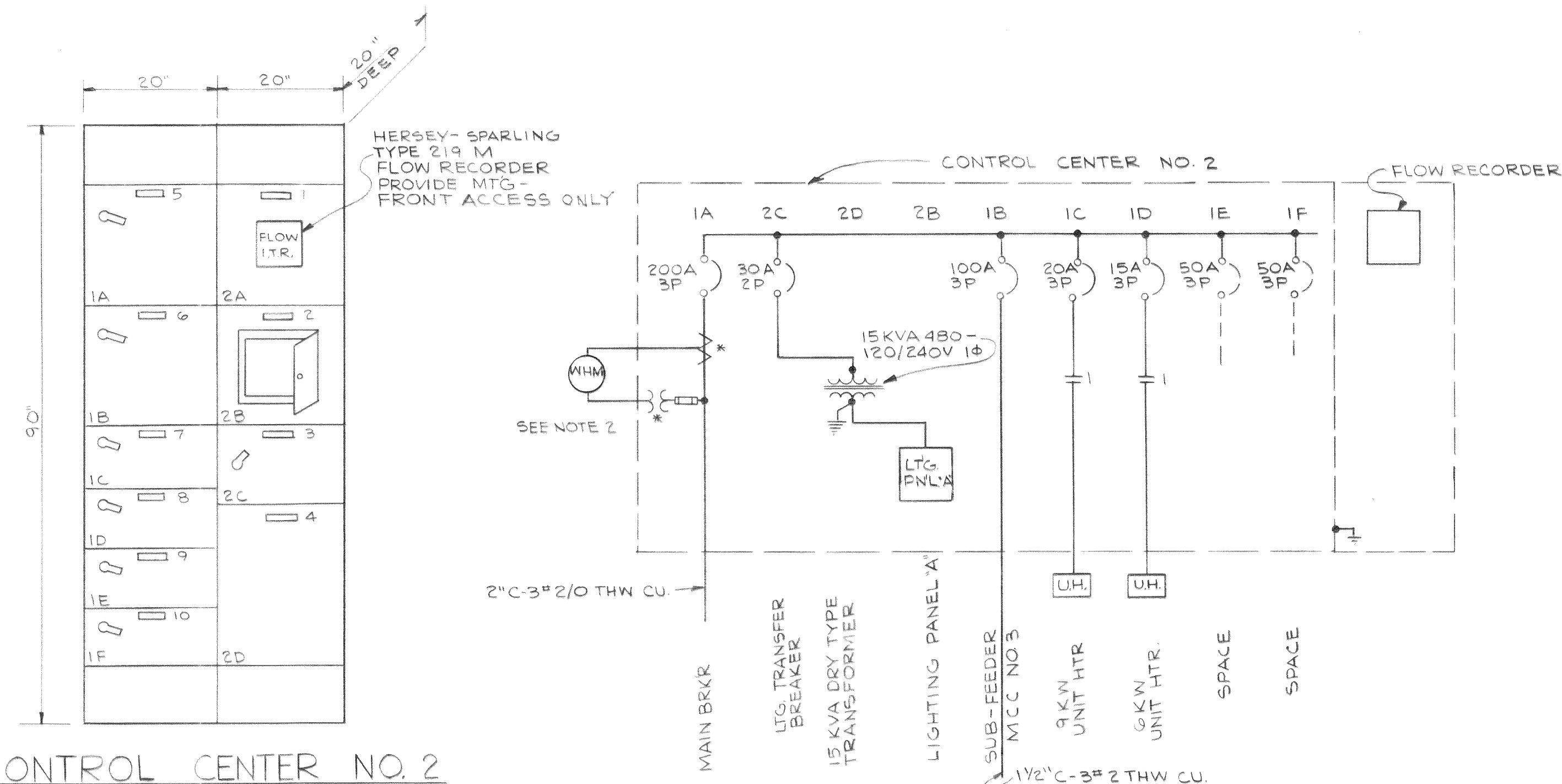
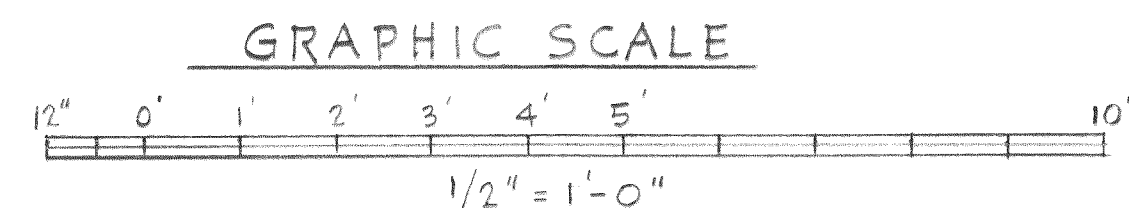
DIMENSIONS OF CONC. BASE AND ANCHOR BOLTS TO CONFORM TO MFG.'S RECOMMENDATION. GROUND EACH POLE WITH #10 AWG COPPER CONDUCTOR AS REQUIRED BY NEC.



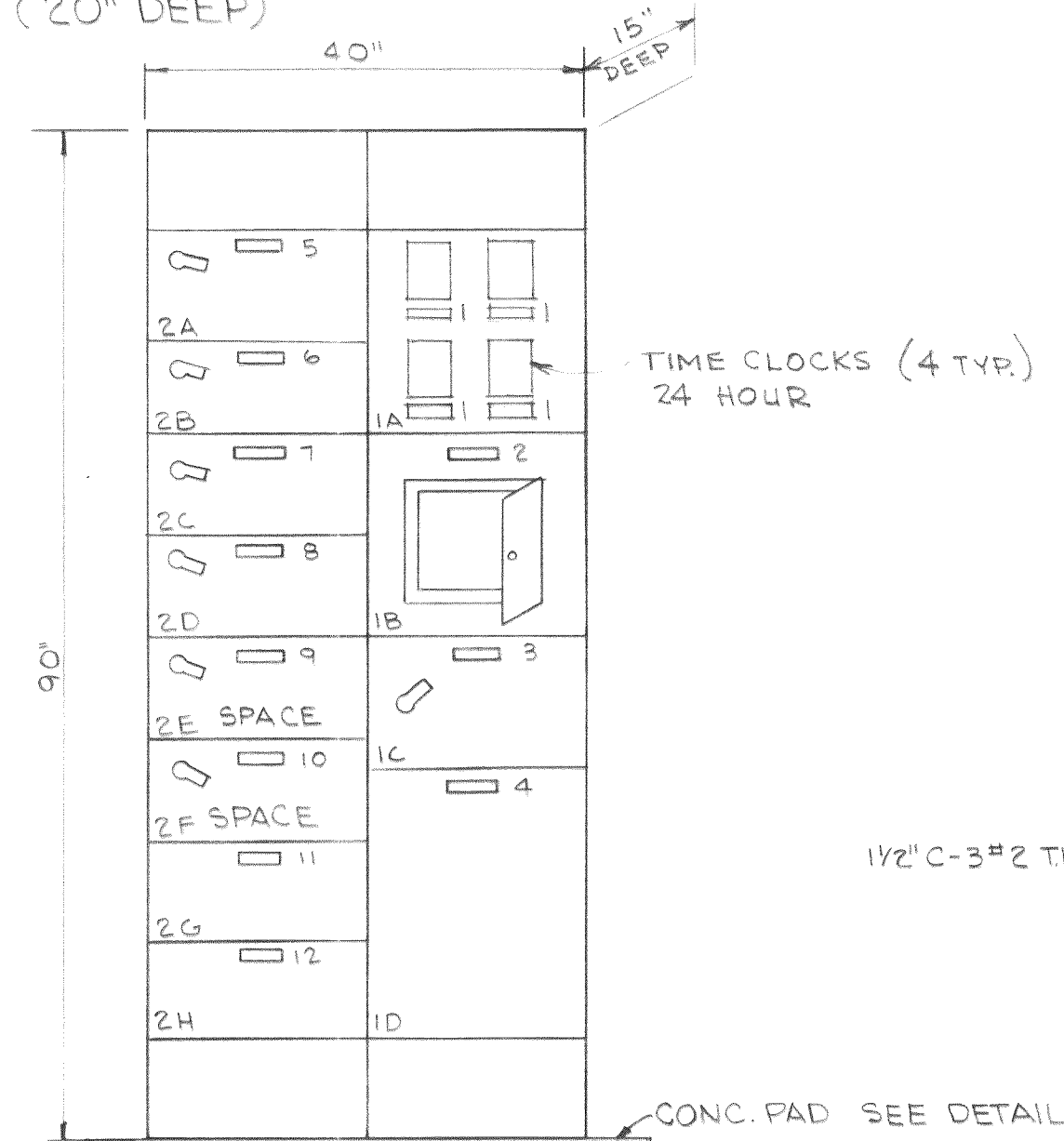
FLOOD LIGHTING DETAIL
SCALE 1/2" = 1'-0"

NAMEPLATE SCHEDULE (MICARTA)	
NO.	LETTERING
1.	FLOW RECORDER
2.	LIGHTING PANEL "A"
3.	LIGHT TRANSF. BREAKER
4.	LIGHT TRANSFORMER
5.	MAIN SERVICE BREAKER
6.	MCC NO. 3 FEEDER BREAKER
7.	UNIT HEATER, LAB
8.	UNIT HEATER, CHLOR. RM.
9.	BLANK
10.	BLANK

NAMEPLATE SCHEDULE (MICARTA)	
NO.	LETTERING
1.	AERATOR NO. 1, 2, 3, 4
2.	LIGHTING PANEL "B"
3.	LIGHT TRANSF. BREAKER
4.	LIGHT TRANSFORMER
5.	AERATOR NO. 1
6.	AERATOR NO. 2
7.	AERATOR NO. 3
8.	AERATOR NO. 4
9.	BLANK
10.	BLANK
11.	BLANK
12.	BLANK

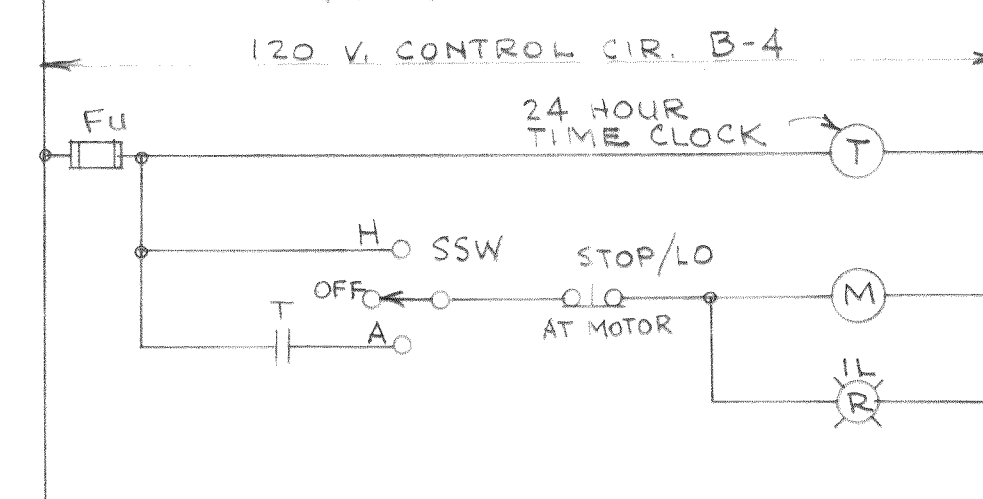


CONTROL CENTER NO. 2
INDOOR-NEMA TYPE 1 ENCLOSURE
(20" DEEP)

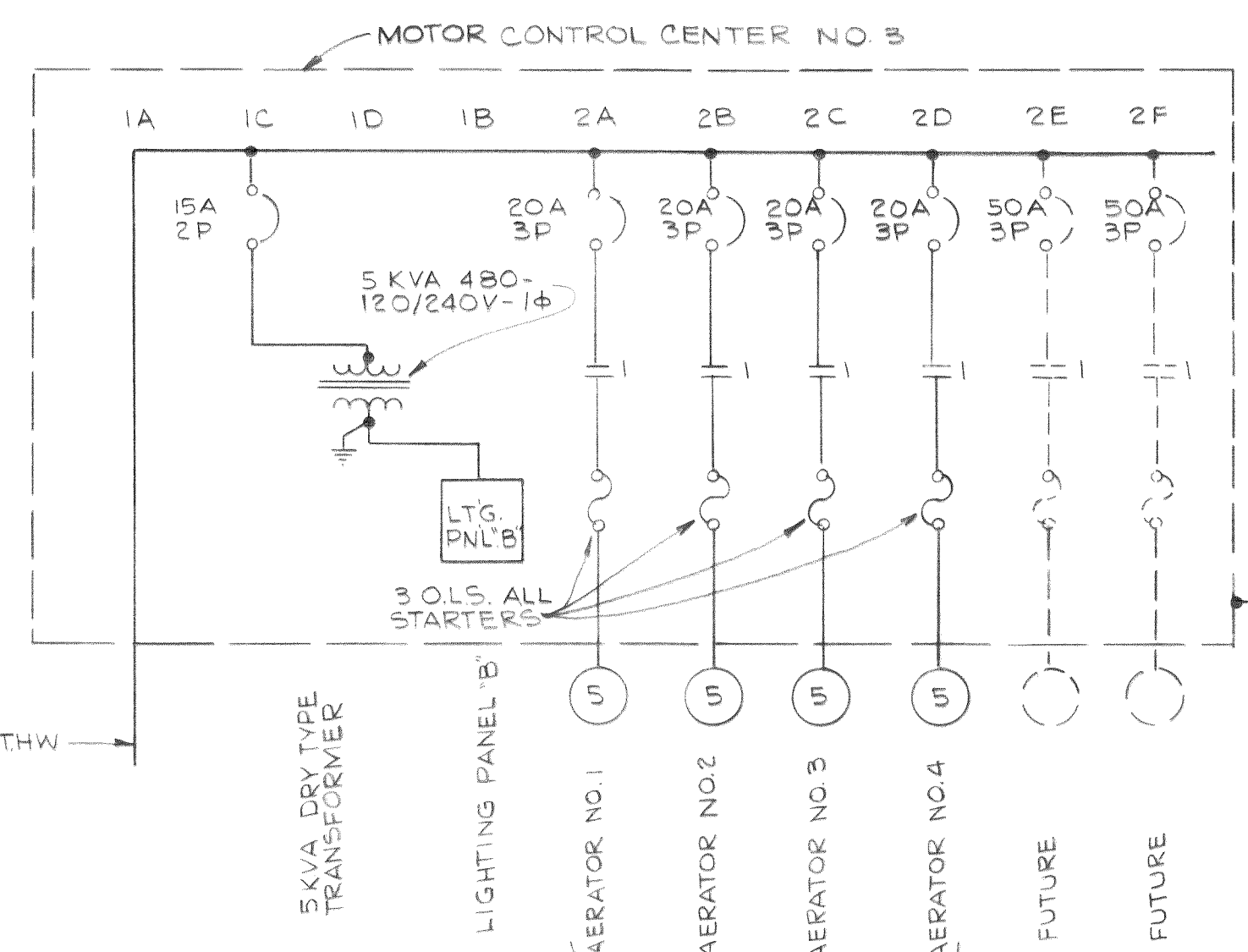


MOTOR CONTROL CENTER NO. 3

OUTDOOR-NEMA TYPE 3 ENCLOSURE,
WITH GASKETED DOORS AND DRIP
HOOD SQUARE D CLASS 899B



AERATOR CONTROL SCHEMATIC



ONE LINE DIAGRAMS

NOTES:

1. ALL BREAKERS IN MOTOR CONTROL CENTERS TO BE 25,000 AMP. (ASSYM) INTERRUPTING CAPACITY.
2. P.T.S AND C.T.S WILL BE FURNISHED BY UTILITY AND INSTALLED BY THIS CONTRACTOR. MAKE PROVISIONS FOR MOUNTING P.T.S AND C.T.S IN CONTROL CENTER.
3. PROVIDE H-O-A SEL. SW. & RED PILOT LT. IN AERATOR MOTOR STARTERS IN M.C.C. NO. 3

DESIGNED J.L.	APPROVED <i>J.R. Murray</i>
DRAWN L.M.R.	SCALE AS SHOWN DATE JAN. 1969
CHECKED T.S.	FILE 67-S-168.002



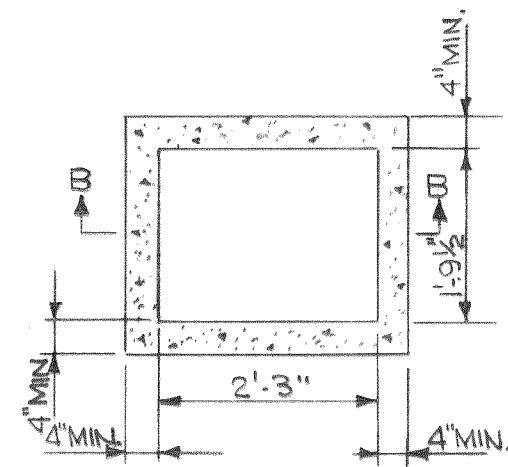
Stevens, Thompson & Runyan, Inc.
Engineers/Planners
PORTLAND, OREGON SEATTLE, WASHINGTON

TOWN OF FERNDAL, WASHINGTON
TREATMENT AND PUMPING FACILITIES
SCHEDULE I

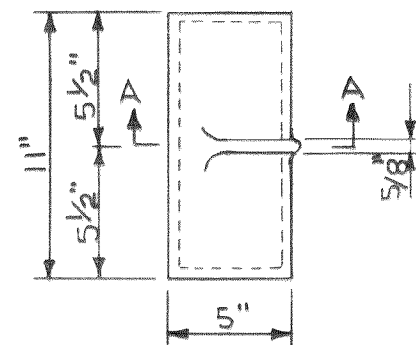
CHLORINATOR BUILDING
ELECTRICAL
DIAGRAMS AND DETAILS

23
23

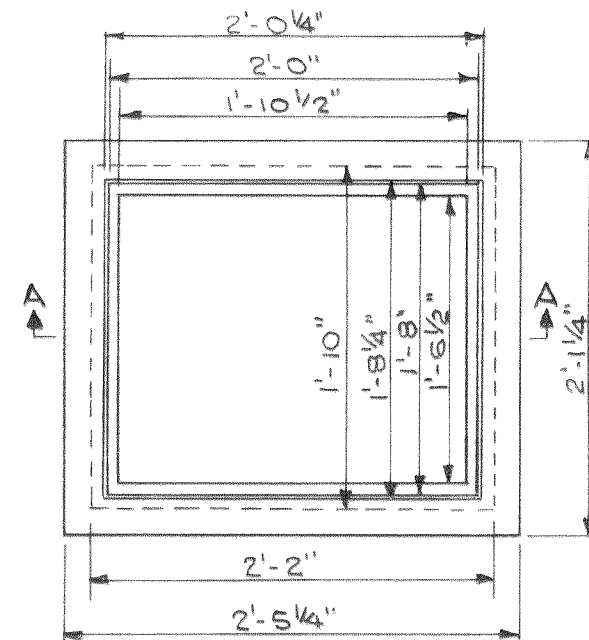
MICROFILMED



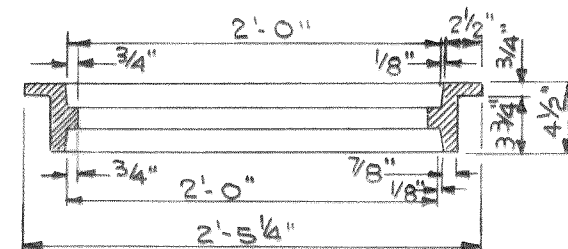
PLAN - SECTION A-A
NO SCALE



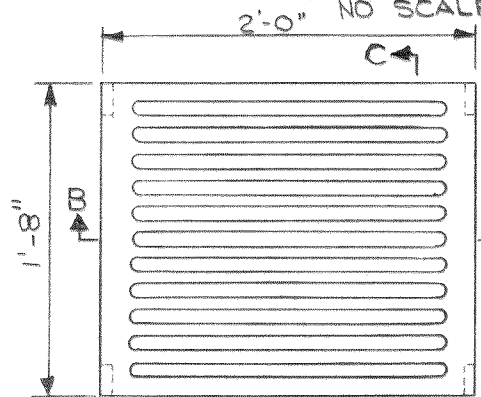
PLAN
NO SCALE



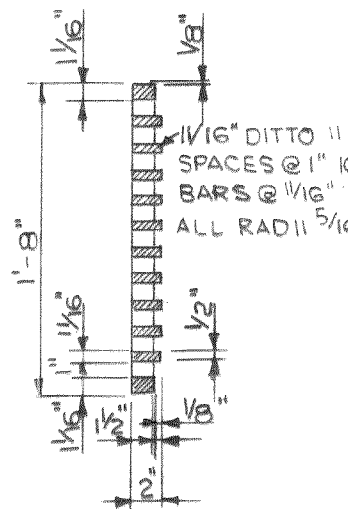
PLAN - FRAME
NO SCALE



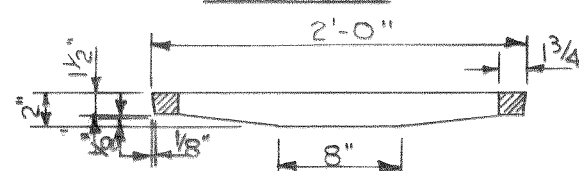
PROFILE - SECTION A-A
NO SCALE



GRATE C

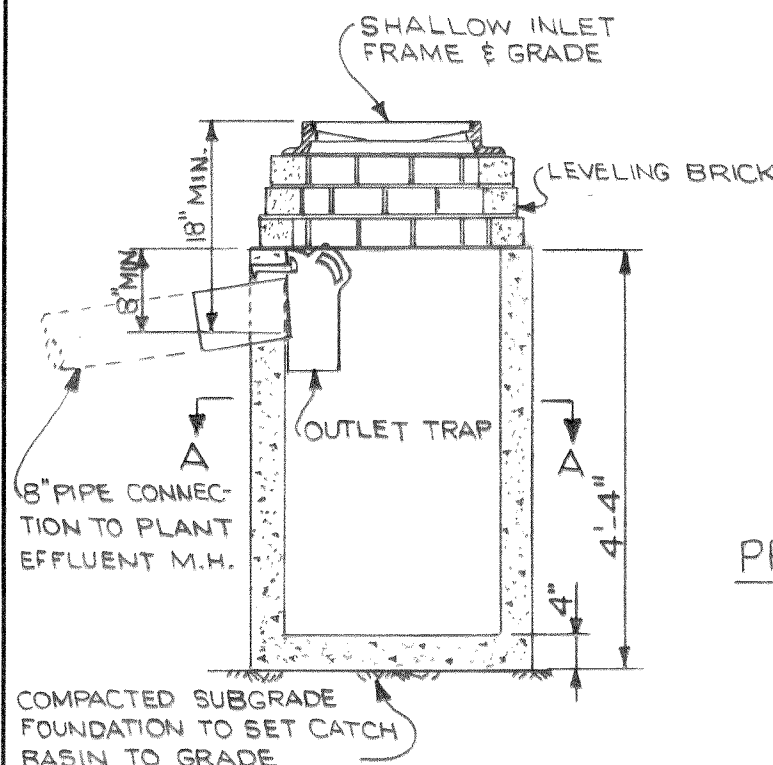


SECTION C-C
NO SCALE



SECTION B-B
NO SCALE

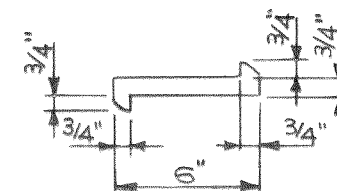
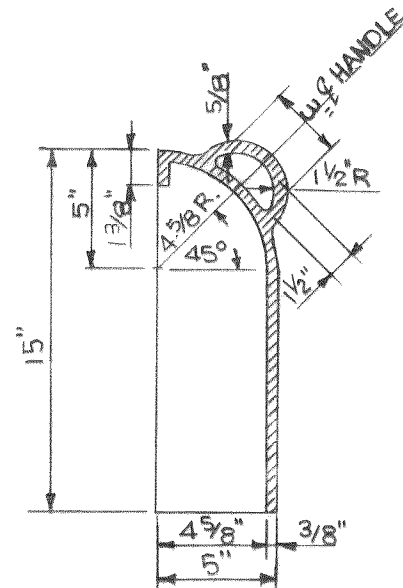
FRAME & GRATE DETAIL



PROFILE - SECTION B-B
NO SCALE

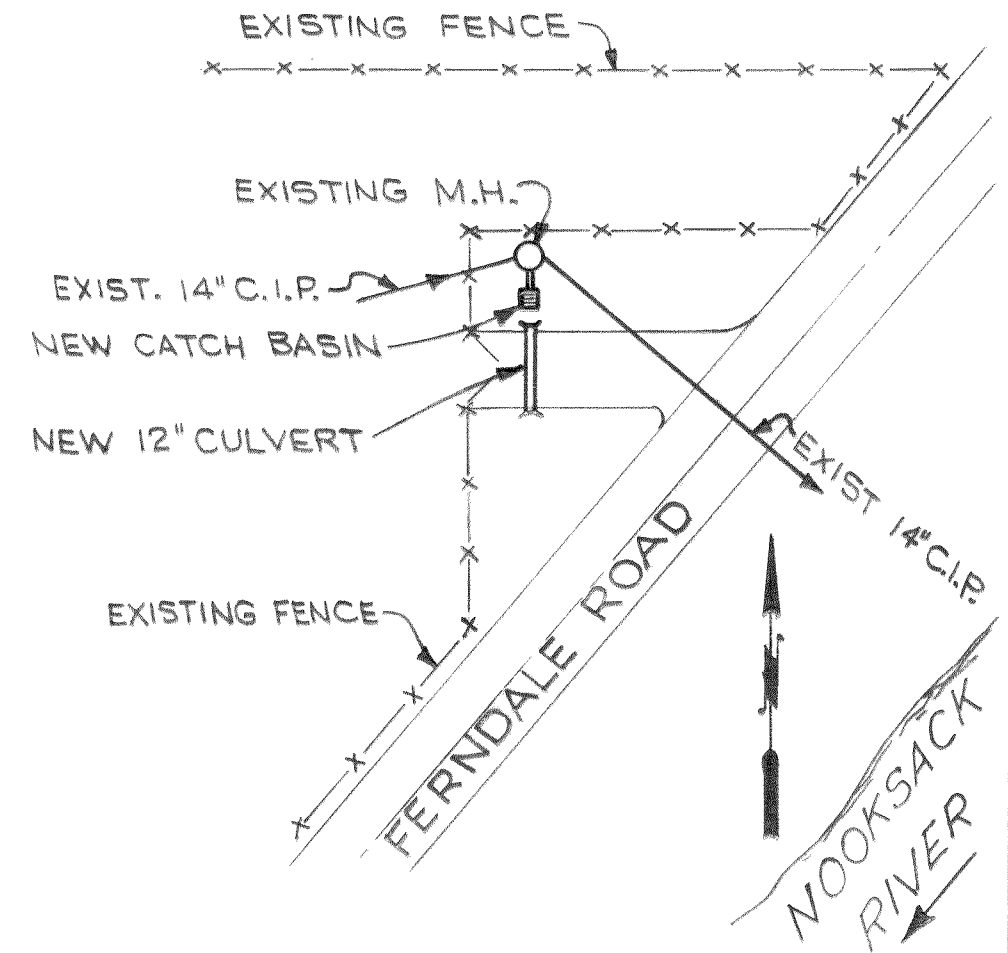
CATCH BASIN DETAIL

PROFILE - SECTION A-A
NO SCALE



TRAP HOOK
NO SCALE

OUTLET TRAP DETAIL



LOCATION PLAN
NO SCALE

NOTES:

- ALL LIFT HOLES AND JOINTS TO BE FILLED WITH MORTAR.
- COMPACTED BACKFILL SHALL BE PLACED AROUND CATCH BASIN BEFORE PIPE CONNECTION IS MADE
- TRAP MAY BE CAST IRON ASTM DESIGNATION A48 CLASS 25 OR CAST STEEL ASTM DESIGNATION A27 GRADE 70-36.

MICROFILMED

DESIGNED T.S.	APPROVED
DRAWN ANM.	SCALE AS SHOWN DATE FEB. 1970
CHECKED T.S.	FILE 67-S-168.002

Stevens, Thompson & Runyan, Inc.
Engineers/Planners
PORTLAND, OREGON SEATTLE, WASHINGTON

TOWN OF FERDALE, WASHINGTON
TREATMENT AND PUMPING FACILITIES
SCHEDULE I

TREATMENT FACILITIES SITE
STORM DRAINAGE

Dwg # 67-S-168.002-33

00205.25 2.6.00