

SEWAGE TREATMENT PLANT IMPROVEMENTS FOR WARM SPRINGS CAMP REHABILITATION CENTER

45,644

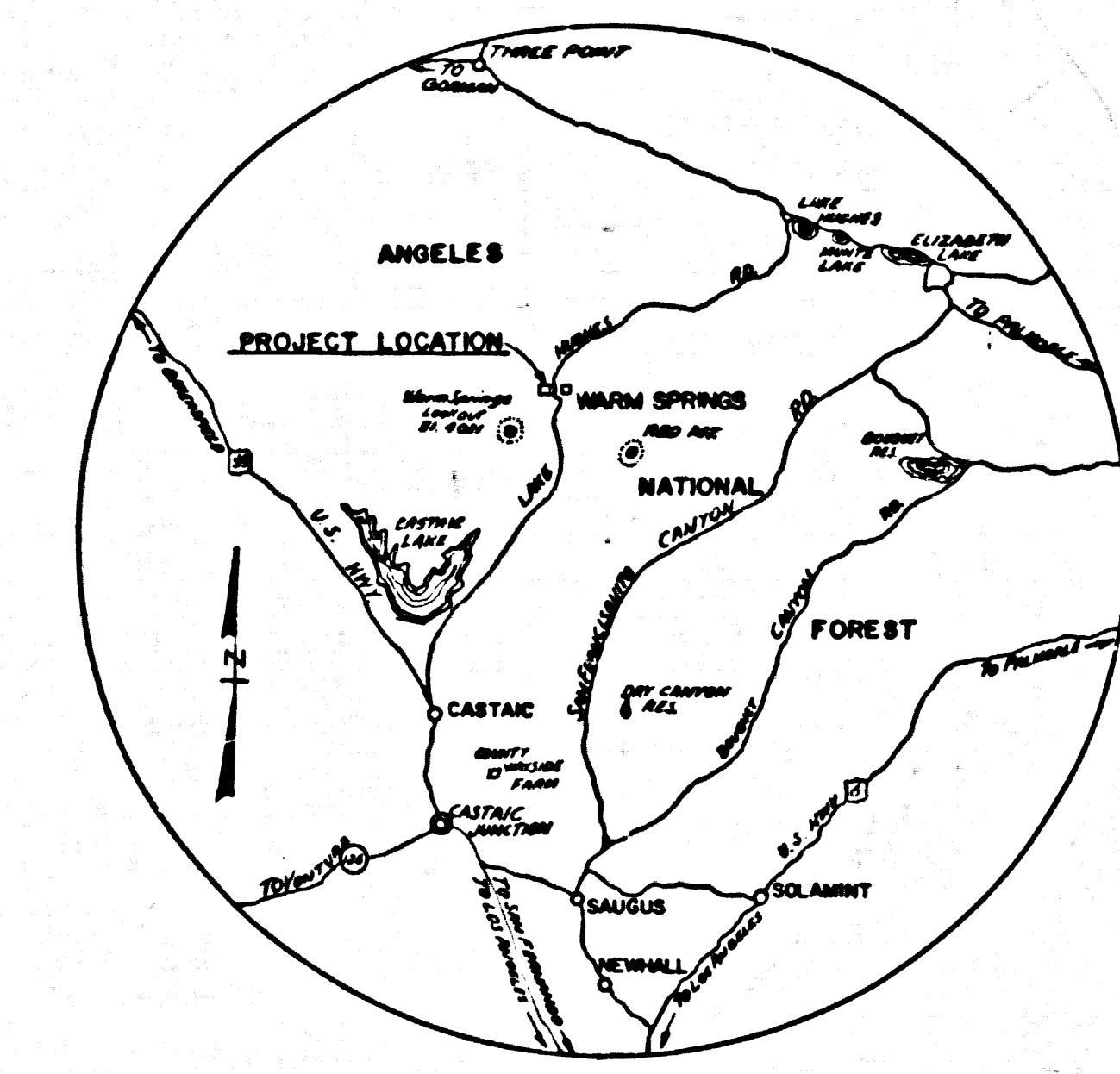
CASH CONTRACT NO. 8864 JOB NO. 836503
DEPARTMENT OF HEALTH SERVICES
DEPARTMENT OF THE COUNTY ENGINEER

SANITATION DIVISION
COUNTY OF LOS ANGELES, CALIFORNIA
HARVEY T. BRANDT COUNTY ENGINEER

SUBMITTED *W. C. Lee* 4-18-74 APPROVED *R. G. Kuhn*
CIVIL ENGINEER REC'D 10443 SANITATION DIVISION ENGINEER

LOS ANGELES COUNTY
DEPARTMENT OF HEALTH SERVICES
W. H. K. 4-26-74
DEPUTY HEALTH OFFICER DATE

ASSISTANCE FOR THIS PROJECT IS BEING
PROVIDED BY THE CALIFORNIA STATE WATER
RESOURCES CONTROL BOARD AND THE UNITED
STATES ENVIRONMENTAL PROTECTION AGENCY



VICINITY MAP
SCALE 1" = 1 MILE

SHEET	TITLE
1	TITLE SHEET & INDEX
2	FLOW CHART & HYDRAULIC PROFILE
3	PLOT AND GRADING PLAN
4	ACTIVATED SLUDGE UNIT
5	TREATMENT PLANT DETAILS
6	FILTER UNIT & SLUDGE HOLDING TANK
7	METERING SYSTEM & MISC. DETAILS
8	IRRIGATION SYSTEM
9	ELECTRICAL DETAILS
10	ELECTRICAL DETAILS

CONSTRUCTION NOTES

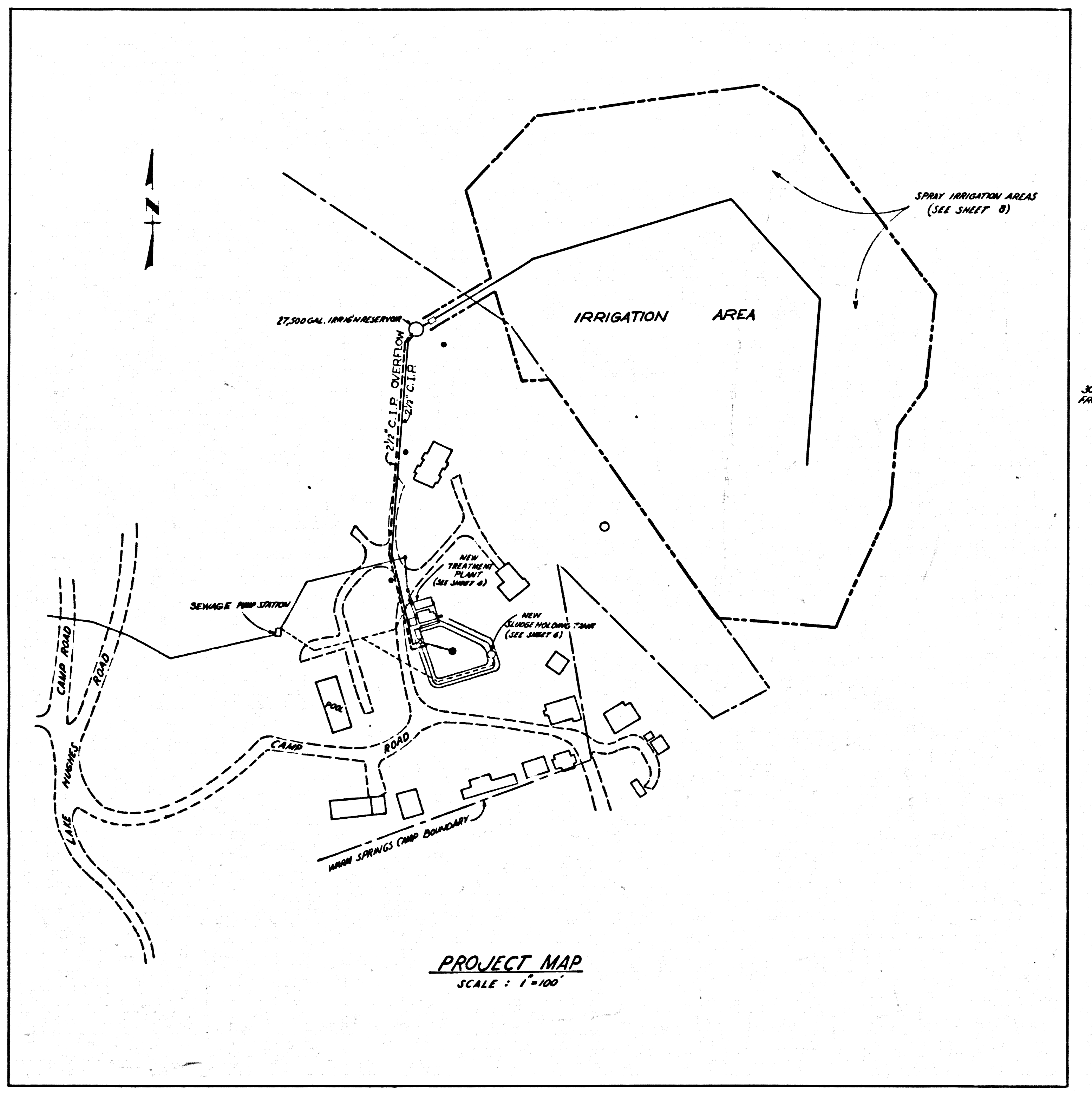
1. WORK SHALL BE CONSTRUCTED ACCORDING TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (1973 EDITION WITH 1974 SUPPLEMENTS) AND THE COUNTY ENR. SPECIAL PROVISIONS FOR THE CONSTRUCTION OF SANITARY SEWERS DATED MARCH 1, 1974. SPECIAL PROVISIONS FOR THE CONSTRUCTION OF SANITARY SEWERS DATED MARCH 1, 1974 SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE COUNTY ENGINEER.
2. ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. SEA LEVEL DATUM OF 1929.
3. UNIT PRICES FOR ADDITIONAL WORK WHICH MAY BE REQUIRED BUT WHICH CANNOT BE ASCERTAINED IN ADVANCE, SHALL BE SUBMITTED IN THE PROPOSAL.
4. THIS DRAWING AND THE DATA HEREON ARE HEREBY MADE A PART OF THE SPECIFICATIONS.
5. SEWERS TO BE TESTED FOR LEAKAGE PER SEC. 304-14 OF STD. SPECS. AND SPECIAL PROVISIONS.
6. REFER TO SECTION 7-10.4.1 OF STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.
7. THE CONTRACTOR SHALL NOTIFY THE DESIGN DIVISION BY TELEPHONE (213) 241-2423, AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
8. ALL STATE AND LOCAL TRENCH SAFETY ORDERS WILL BE RIGIDLY ENFORCED.
9. ALL CAST IRON SEWER PIPE AND JOINTS SHALL BE IN ACCORDANCE WITH SEC. 307-3.10 AND 307-3.9 OF THE S.E.C. PROVISIONS AND 307-3.4, 3.4.1, 3.4.2 OF THE STD. SPECS.
10. RESURFACING SCHEDULE: RESURFACE TRENCH WITHIN PAVED AREA WITH PREMIUM ROOF AND OIL 1-INCH GREATER IN THICKNESS THAN EXISTING PAVEMENT. RESURFACING METHODS SHALL BE IN ACCORDANCE WITH SEC. 304-1.5 OF THE SPECIAL PROVISIONS.
11. THE EXISTING LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS NOTED ON THIS MAP. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY NOT OF RECORD OR NOT SHOWN ON THIS PROJECT.
12. PRIOR TO EXECUTION OF THE CONTRACT AGREEMENT BY THE COUNTY THE CONTRACTOR SHALL AT HIS EXPENSE OBTAIN A PERMIT TO EXCAVATE FROM THE STATE OF CALIFORNIA, DIVISION OF INDUSTRIAL SAFETY.
13. MANHOLE TOPS IN UNIMPROVED RIGHTS OF WAY TO BE 36 INCHES ABOVE FINISHED GRADE.
14. IF A POWER POLE IS WITHIN THREE FEET OF THE SEWER, THE SEWER SHALL BE ENCASED PER 3-23, CASE II TWO FEET ON EACH SIDE FROM THE POINT OF INTERFERENCE.
15. NO REVISIONS SHALL BE MADE IN THESE PLANS WITHOUT THE APPROVAL OF THE COUNTY ENGINEER.
16. IF DURING THE COURSE OF CONSTRUCTION IT IS DETERMINED THAT THERE IS LESS THAN FOUR FEET OF COVER OVER THE TOP OF A MAIN LINE OR HOUSE LATERAL OR SEWER WHICH IS NOT INDICATED ON THE PLANS, THE PIPE SHALL BE ENCASED PER 3-23, CASE II UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER.

THE FOLLOWING LATEST REVISED STANDARD PLANS ON FILE IN THE OFFICE OF THE COUNTY ENGINEER SHALL APPLY IN THE CONSTRUCTION OF THIS PROJECT:

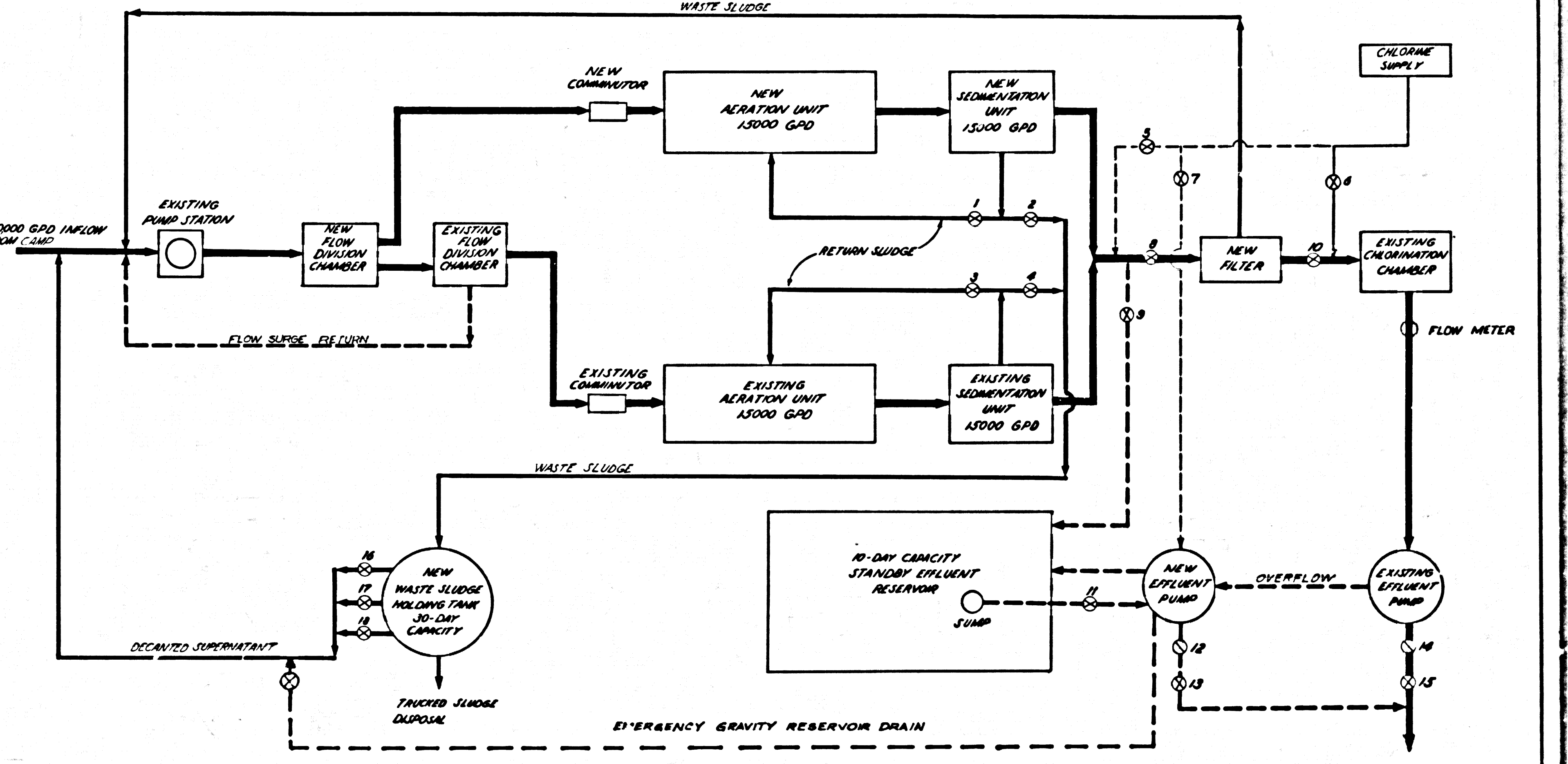
LEGEND	SHEET
MINIMUM PUBLIC SAFETY REQUIREMENTS	S-1
NON-REINFORCED PRECAST CONCRETE MANHOLE	S-2
REINFORCED PRECAST CONCRETE MANHOLE	S-3
MANHOLE FRAME & COVER	S-4
STANDARD MANHOLE STEP	S-10
BEDDING FOR SLEWER PIPE	S-21
SPECIAL SUPPORT AND PROTECTION	S-22
CRADLING AND ENCASEMENT	S-23
EROSION PROTECTION IN STEEP SLOPES	S-31
ALLOWABLE TRENCH WIDTHS	S-33
CHAIN LINK FENCING	C.L. PLATE-1

COUNTY OF LOS ANGELES	SANITATION DIVISION	DEPARTMENT OF COUNTY ENGINEER
HARVEY T. BRANDT	COUNTY ENGINEER	MARCH 1974
SEWAGE TREATMENT PLANT IMPROVEMENTS WARM SPRINGS CAMP REHABILITATION CENTER		
TITLE SHEET & INDEX		
CHECKED: <i>Blair S. Swain</i> 2/10/74	DRAWN: BEHJAN	DESIGNED: BEHJAN
	SCALE: AS SHOWN	SHEET 1 OF 10 SHEETS

45,645



PROJECT MAP
SCALE: 1"=100'

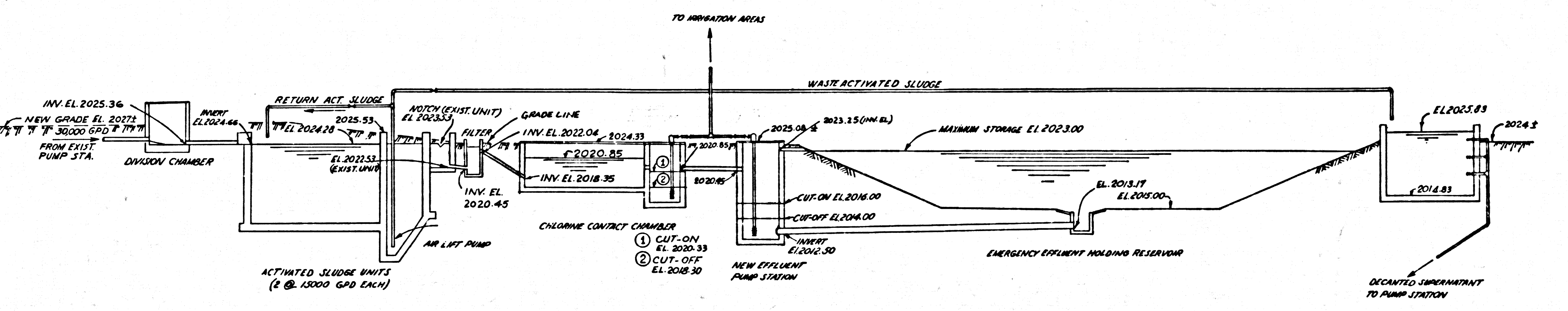


FLOW CHART
NO SCALE

- LEGEND
- NORMAL FLOW PATHS →
 - STANDBY FLOW PATHS - - - - -
 - NORMAL CHLORINATION FLOW PATHS — — — — —
 - STANDBY CHLORINATION FLOW PATHS - · - · - · -
 - SLUDGE RETURN GATE VALVE
 - CHECK ON SLAP VALVE

DESIGN CRITERIA

- AVERAGE DRY WEATHER FLOW 30000 GPD
- PEAK HOUR FLOW RATE 50000 GPD
- SUSPENDED SOLIDS LOAD 51 LB/DAY
- BOD LOAD 60 LB/DAY
- TREATMENT PROCESS: ACTIVATED SLUDGE, EXTENDED AERATION
- COMBINED AERATION TANK VOLUME 4000 FT³
- BOD LOADING RATE ON AERATION TANK 15 LB BOD / 1000 FT³
- AVERAGE AERATION DETENTION TIME 2.4 HRS
- CLARIFIER OVERFLOW RATE 300 GPD/FT
- CHLORINATION CAPACITY 10 LB/DAY
- DETENTION TIME @ MAX FLOW 20 MIN
- EMERGENCY FESERVOIR CAPACITY 300,000 GAL (10 DAY S)



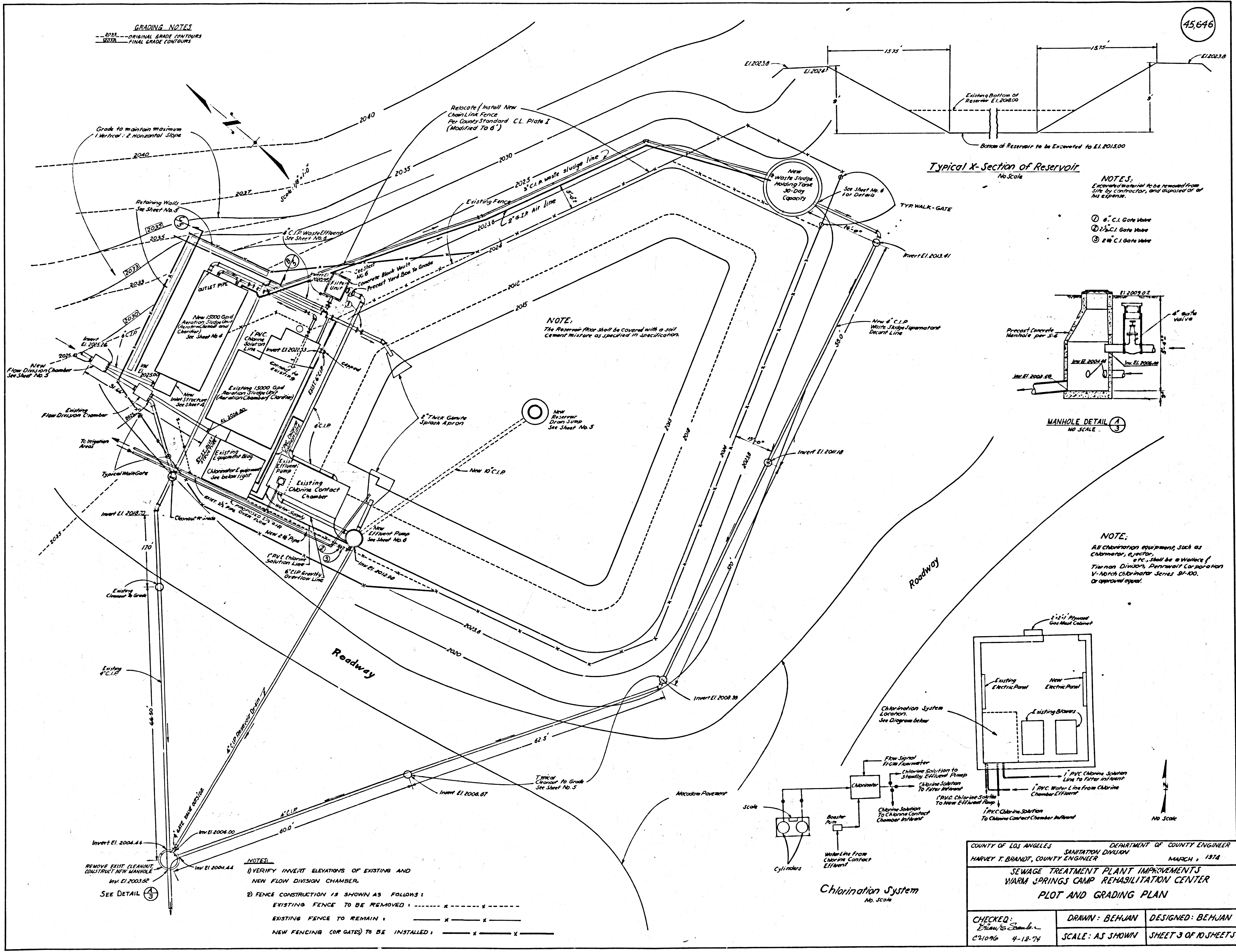
HYDRAULIC PROFILE
NOT TO SCALE

REVISIONS
TABLE OF THE PROJECT DESIGN CRITERIA. 6-10-74

COUNTY OF LOS ANGELES		DEPARTMENT OF COUNTY ENGINEER	
SANITATION DIVISION		MARCH 1974	
SEWAGE TREATMENT PLANT IMPROVEMENTS WARM SPRINGS CAMP REHABILITATION CENTER			
FLOW CHART & HYDRAULIC PROFILE			
CHECKED: P. J. Scullion 2-10-74	DRAWN: BEHMAN	DESIGNED: BEHMAN	SCALE: AS SHOWN
		SHEET 2 OF 10 SHEETS	

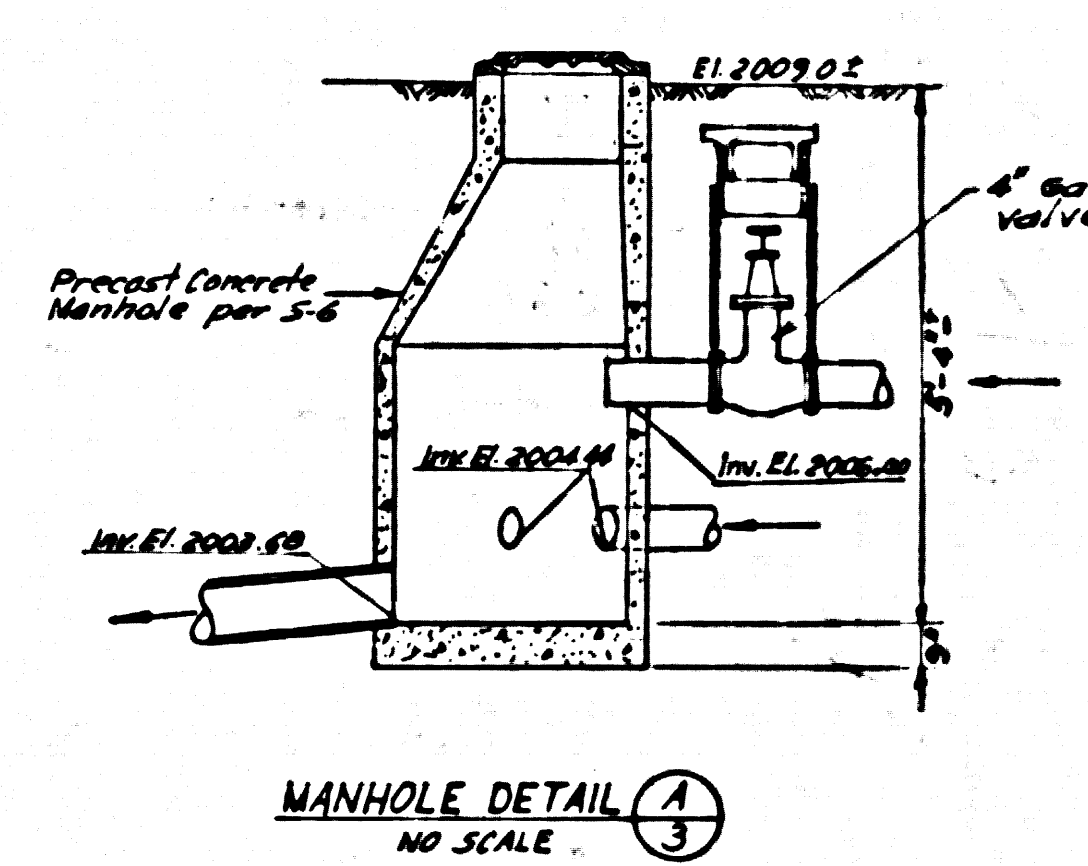
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GRADING NOTES
--- ORIGINAL GRADE CONTOURS
--- FINAL GRADE CONTOURS

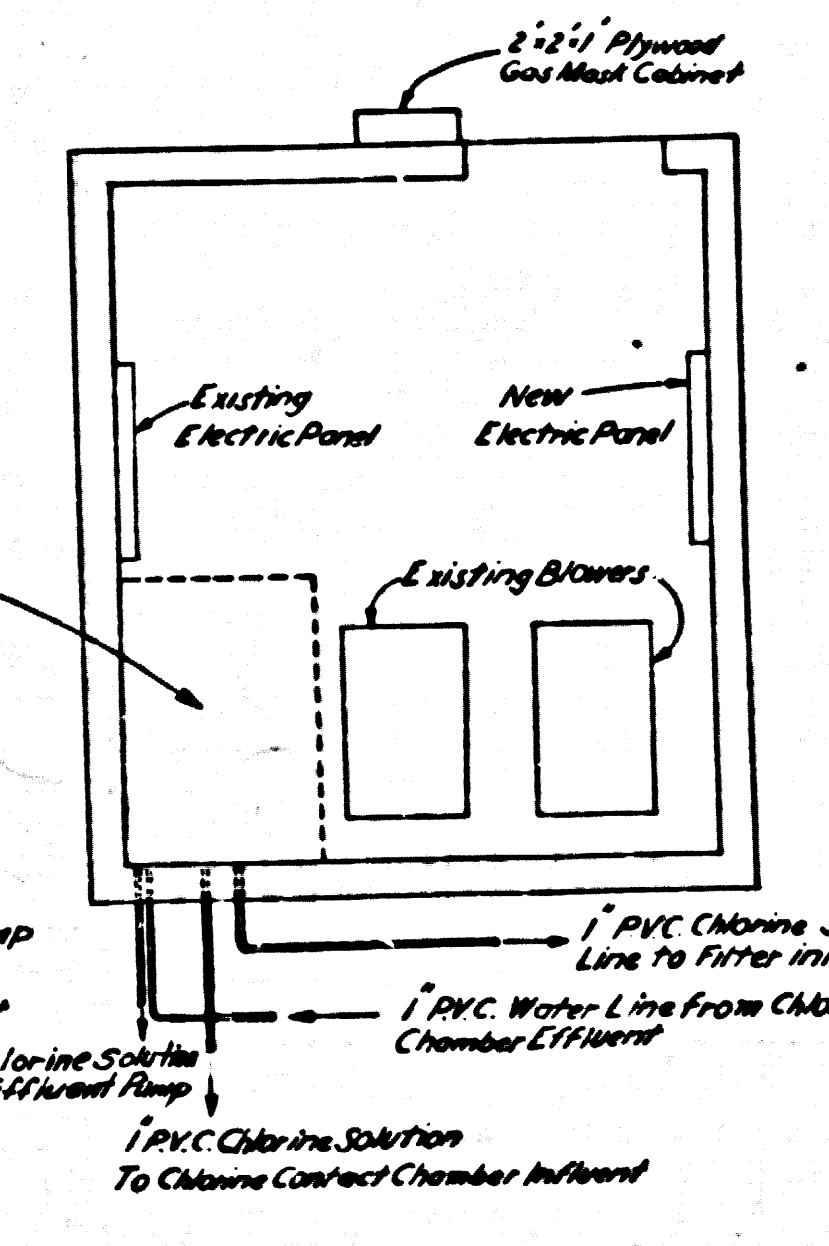


NOTES:
Excavated material to be removed from site by contractor, and disposed of at his expense.

① 8" C.I. Gate Valve
② 24" C.I. Gate Valve
③ 24" C.I. Gate Valve

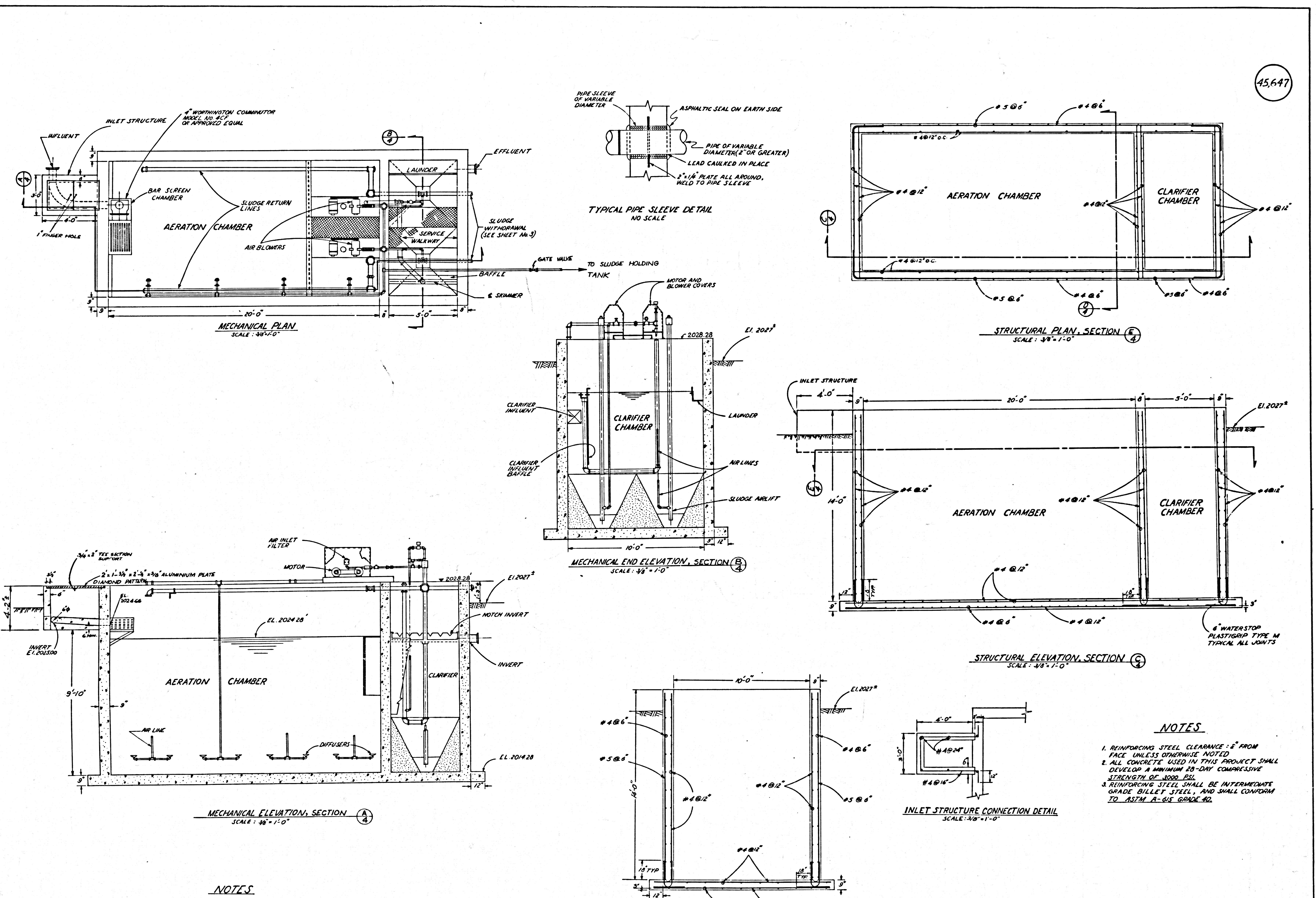


NOTE:
All chlorination equipment, such as chlorinator, reactor, etc. shall be a product of Trianon Division, Dorrweiler Corporation or V-Norma Chlorinator Series 34-100, or approved equal.



COUNTY OF LOS ANGELES		DEPARTMENT OF COUNTY ENGINEER	
HARVEY T. BRANDT, COUNTY ENGINEER		SANITATION DIVISION	
		MARCH, 1974	
SEWAGE TREATMENT PLANT IMPROVEMENTS WARM SPRINGS CAMP REHABILITATION CENTER PLOT AND GRADING PLAN			
CHECKED: Ethan S. Shambaugh C21096 4-18-74	DRAWN: BEHJAN	DESIGNED: BEHJAN	
	SCALE: AS SHOWN	SHEET 3 OF 10 SHEETS	

45647



- NOTES**
1. ALL TREATMENT PLANT EQUIPMENT HARDWARE, SUCH AS BAR SCREEN AND COMMUNICATOR CHAMBER, COMMUNICATOR, AIR DIFFUSION EQUIPMENT, AIR PUMPS, PIPES, VALVES, GATES, WEIRS, BAFFLES, MOTORS, CONTROL PANEL, ETC., SHALL BE A SUBURBAN SYSTEMS INC. PACKAGE SEWAGE TREATMENT PLANT MODEL: DARC-150 (OR APPROVED EQUAL). SHOP DRAWINGS ARE REQUIRED.
 2. ALL DIMENSIONS AND ELEVATIONS FOR THE TREATMENT PLANT SHALL BE CHECKED BY PLANT MANUFACTURER.

- NOTES**
1. REINFORCING STEEL CLEARANCE - 2" FROM FACE UNLESS OTHERWISE NOTED
 2. ALL CONCRETE USED IN THIS PROJECT SHALL DEVELOP A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI.
 3. REINFORCING STEEL SHALL BE INTERMEDIATE GRADE BILLET STEEL, AND SHALL CONFORM TO ASTM A-616 GRADE 42.

COUNTY OF LOS ANGELES		DEPARTMENT OF COUNTY ENGINEER
SANITATION DIVISION		MARCH, 1974
HARVEY F. BRANDT, COUNTY ENGINEER		
SEWAGE TREATMENT PLANT IMPROVEMENTS WARM SPRINGS CAMP REHABILITATION CENTER ACTIVATED SLUDGE UNIT		
CHECKED: Marilyn Olson R.E.M. U.S.F. 20	DRAWN: BEHLAN	DESIGNED: BEHLAN
SCALE: AS SHOWN		SHEET 4 OF 10 SHEETS

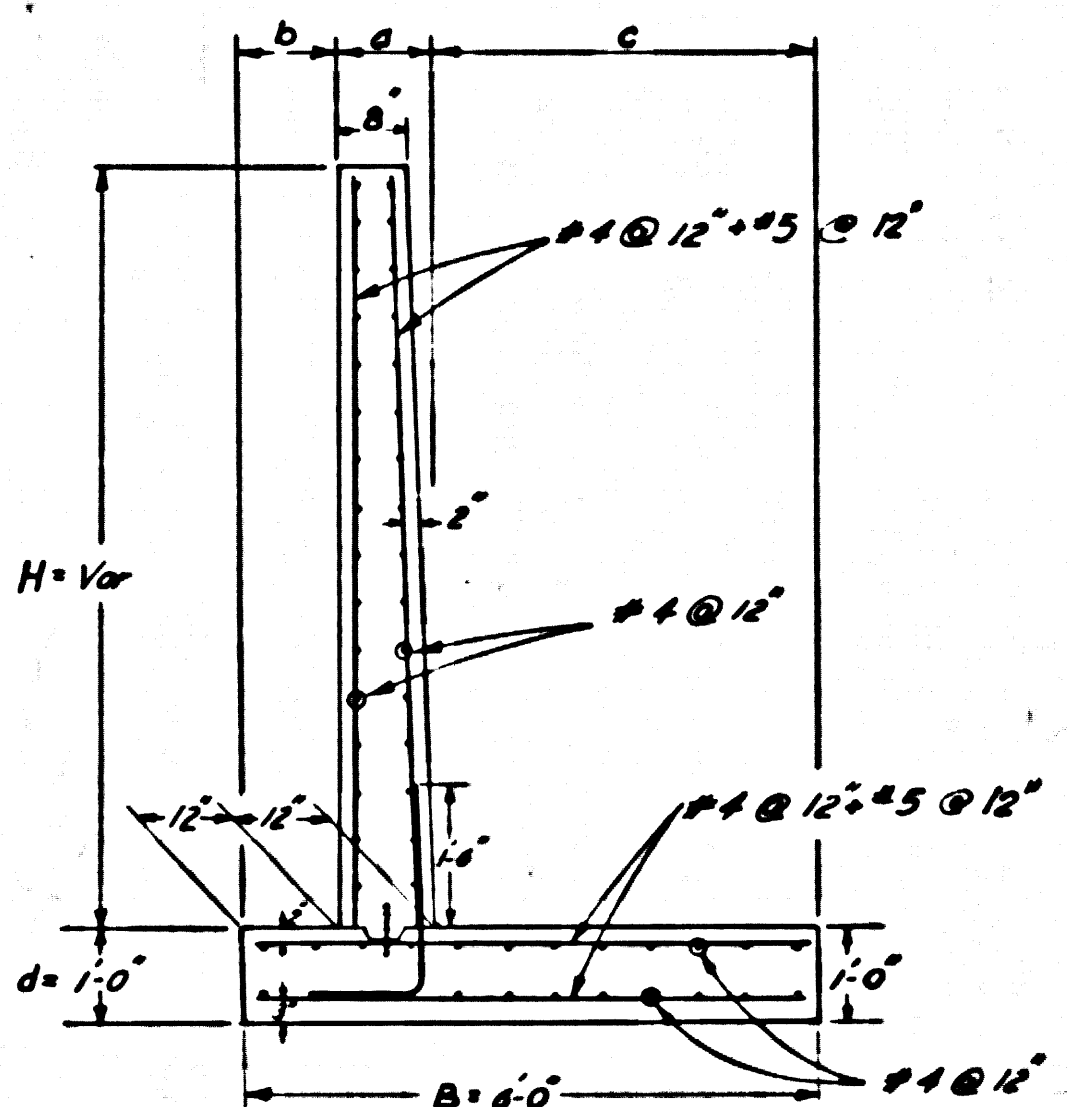
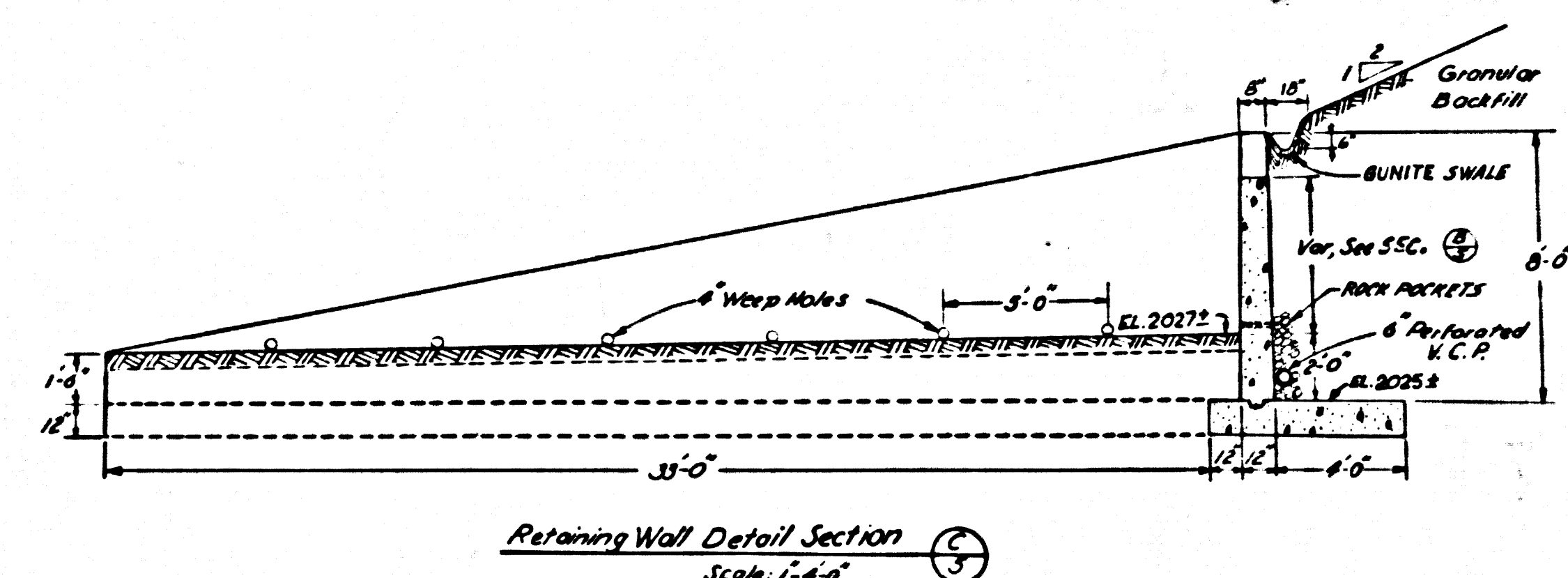
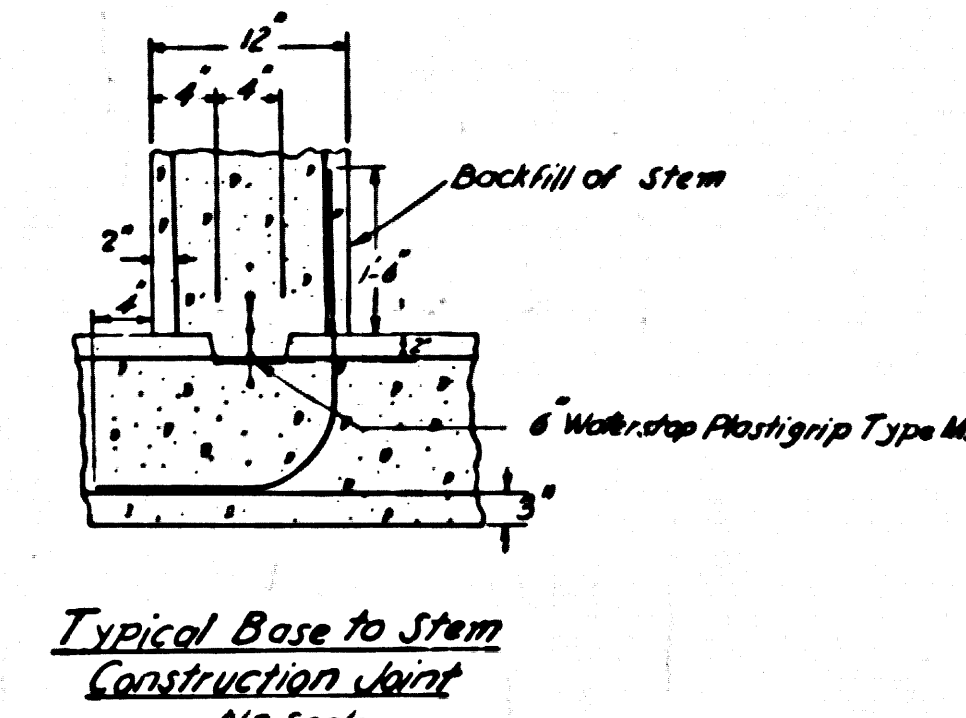
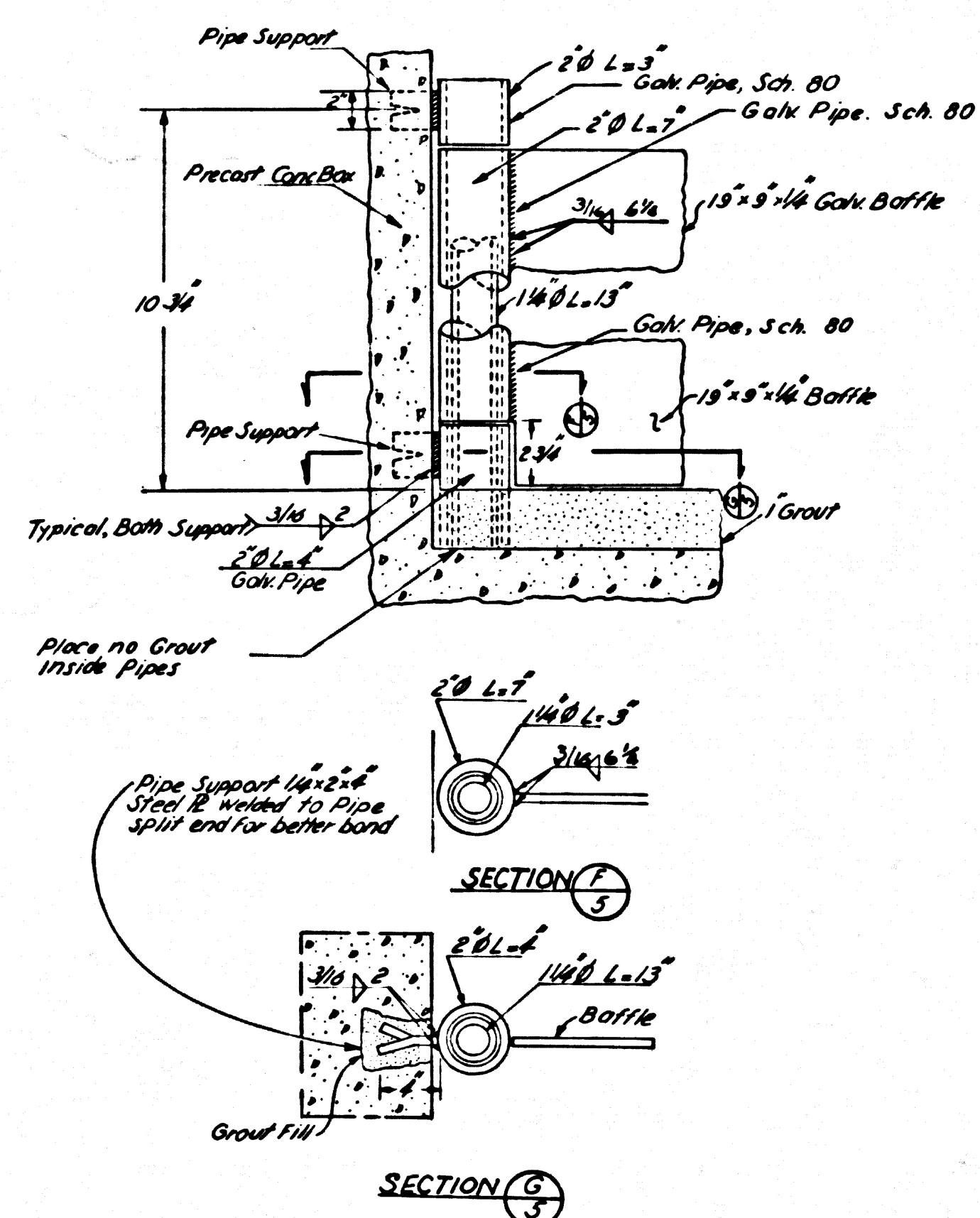
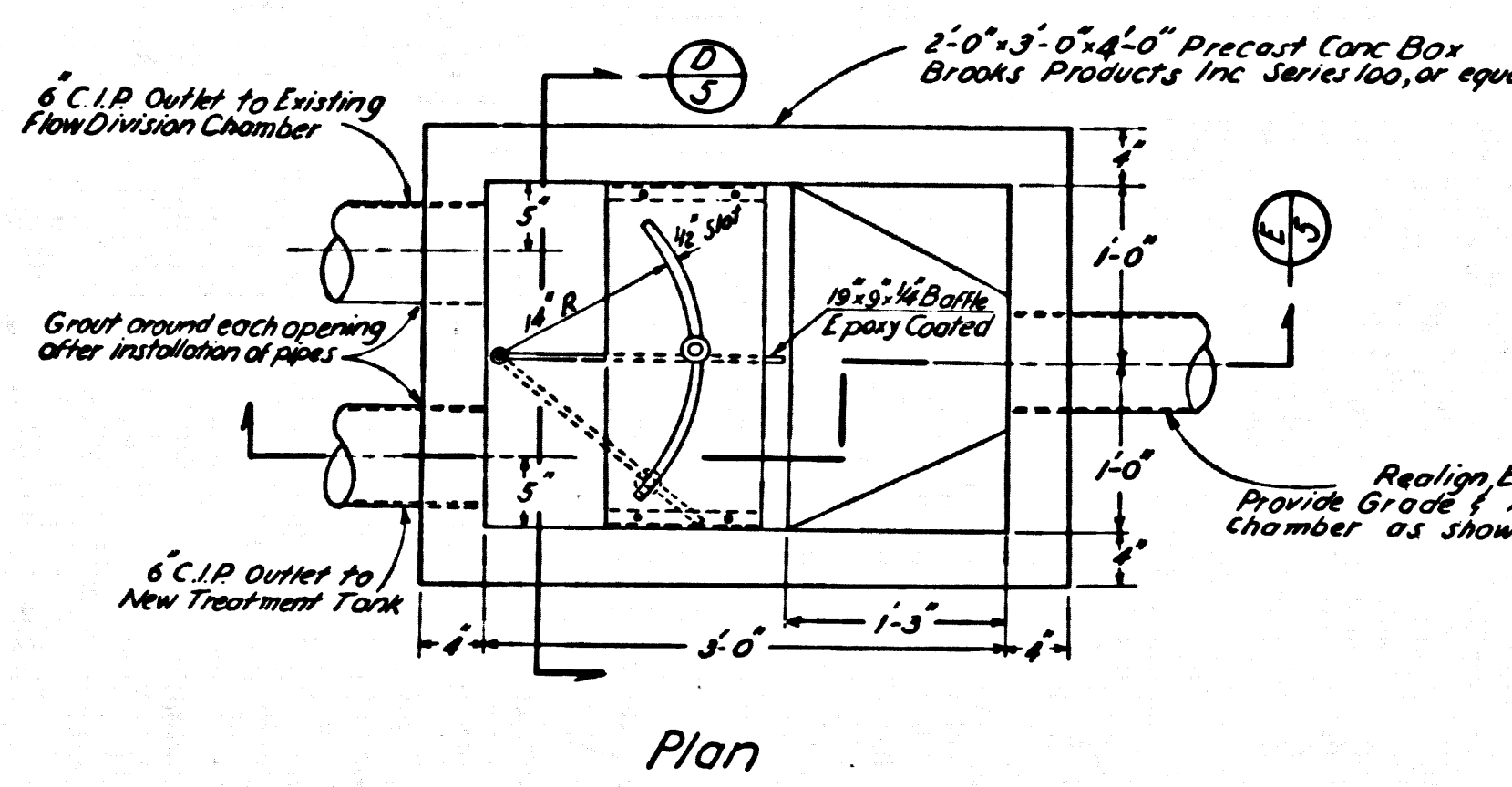
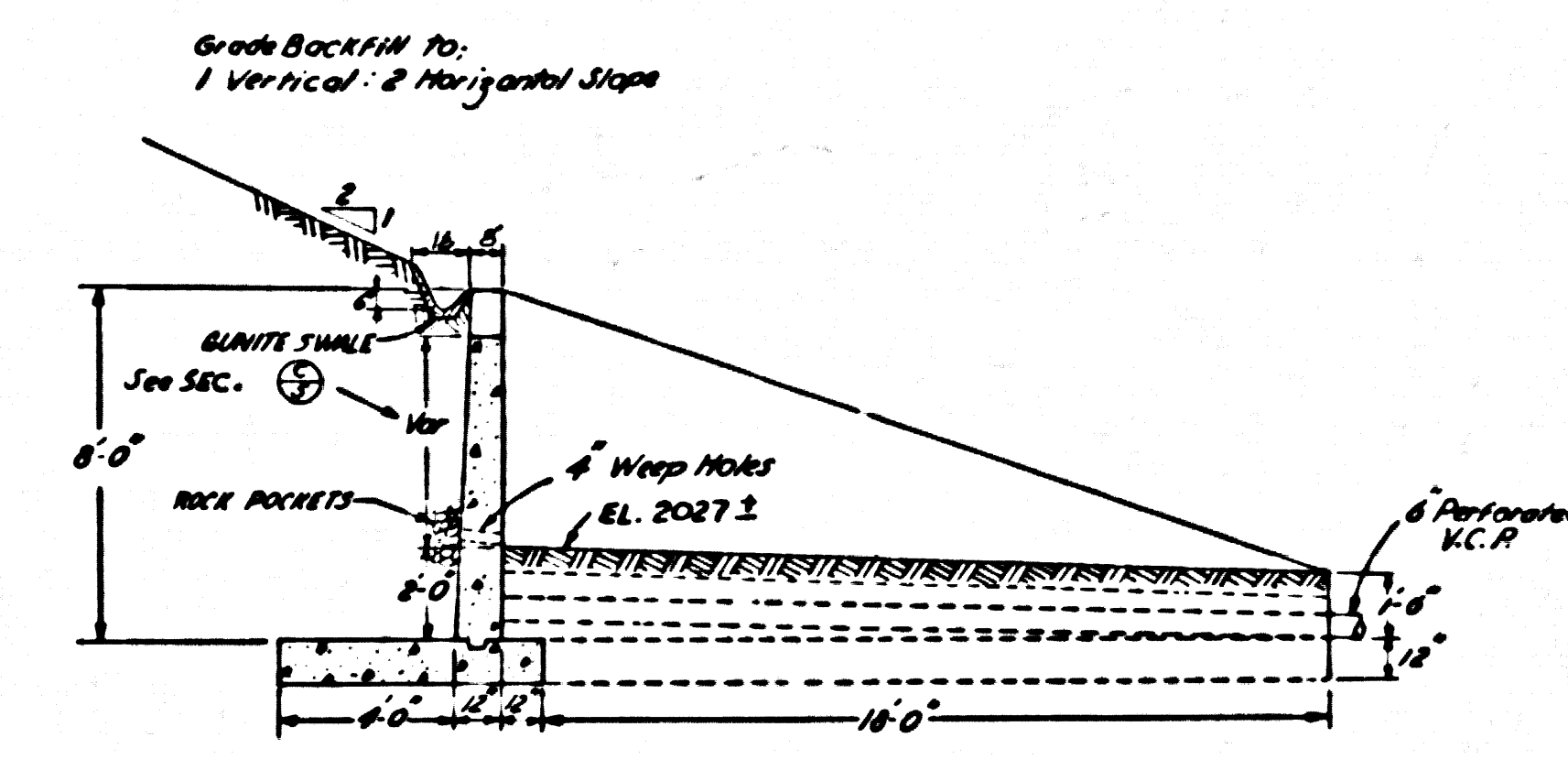


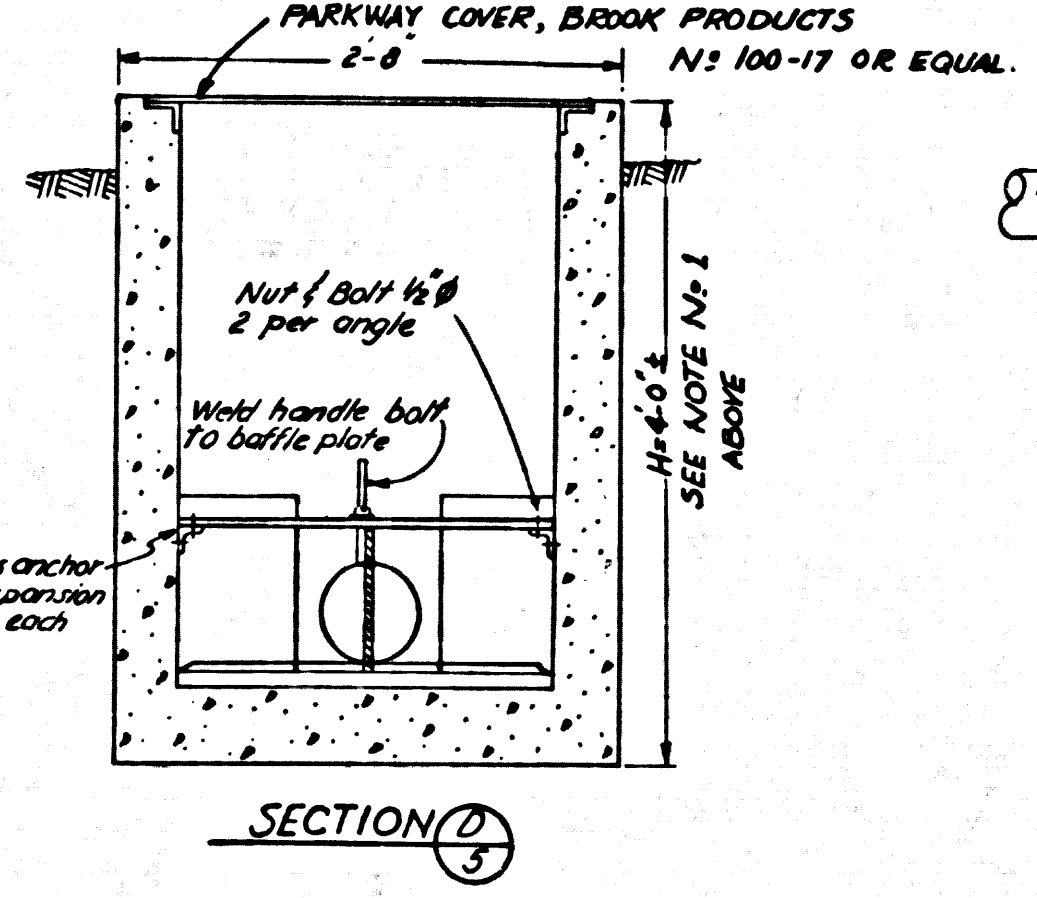
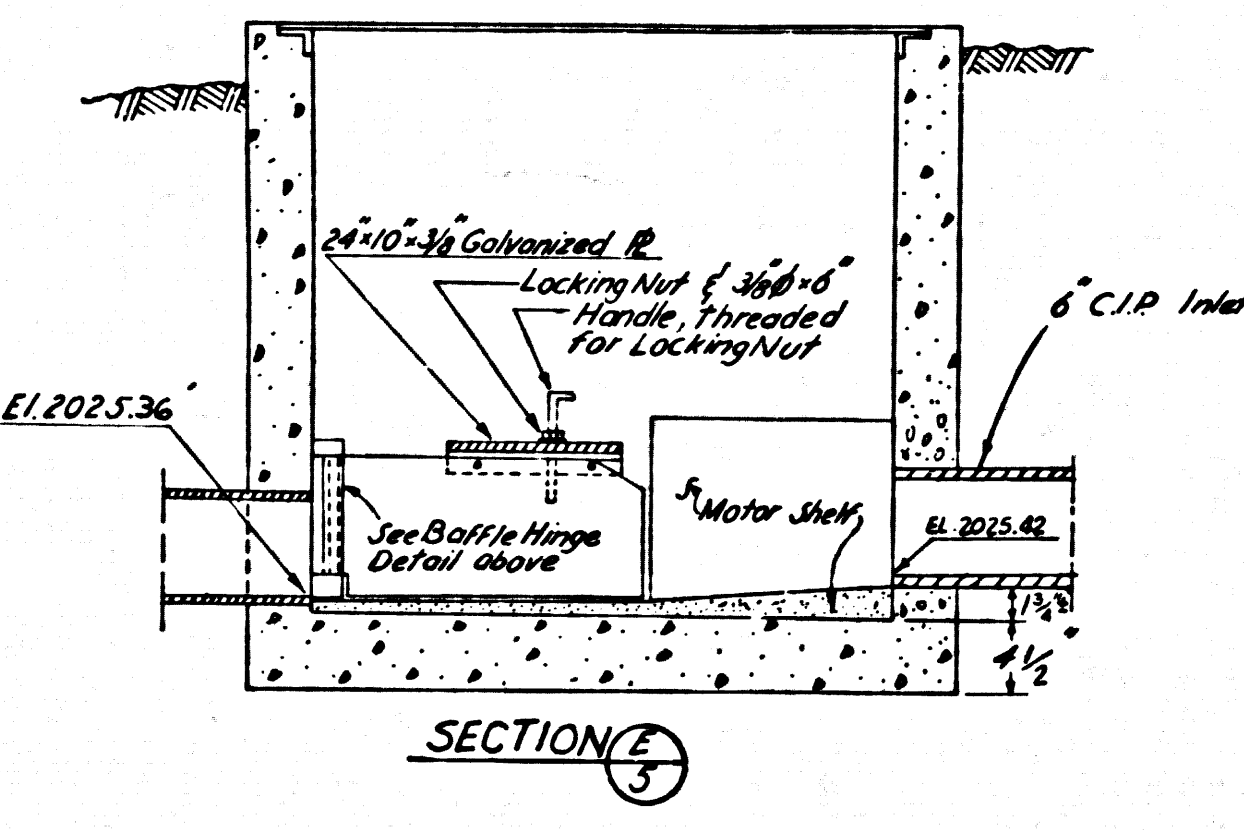
Table of Dimensions

H	0-3	3-5	5-8
D	12"	12"	12"
b	7"	12"	12"
C	42"	21"	48"
d	12"	12"	12"
B	2'-7"	3'-9"	6'-0"

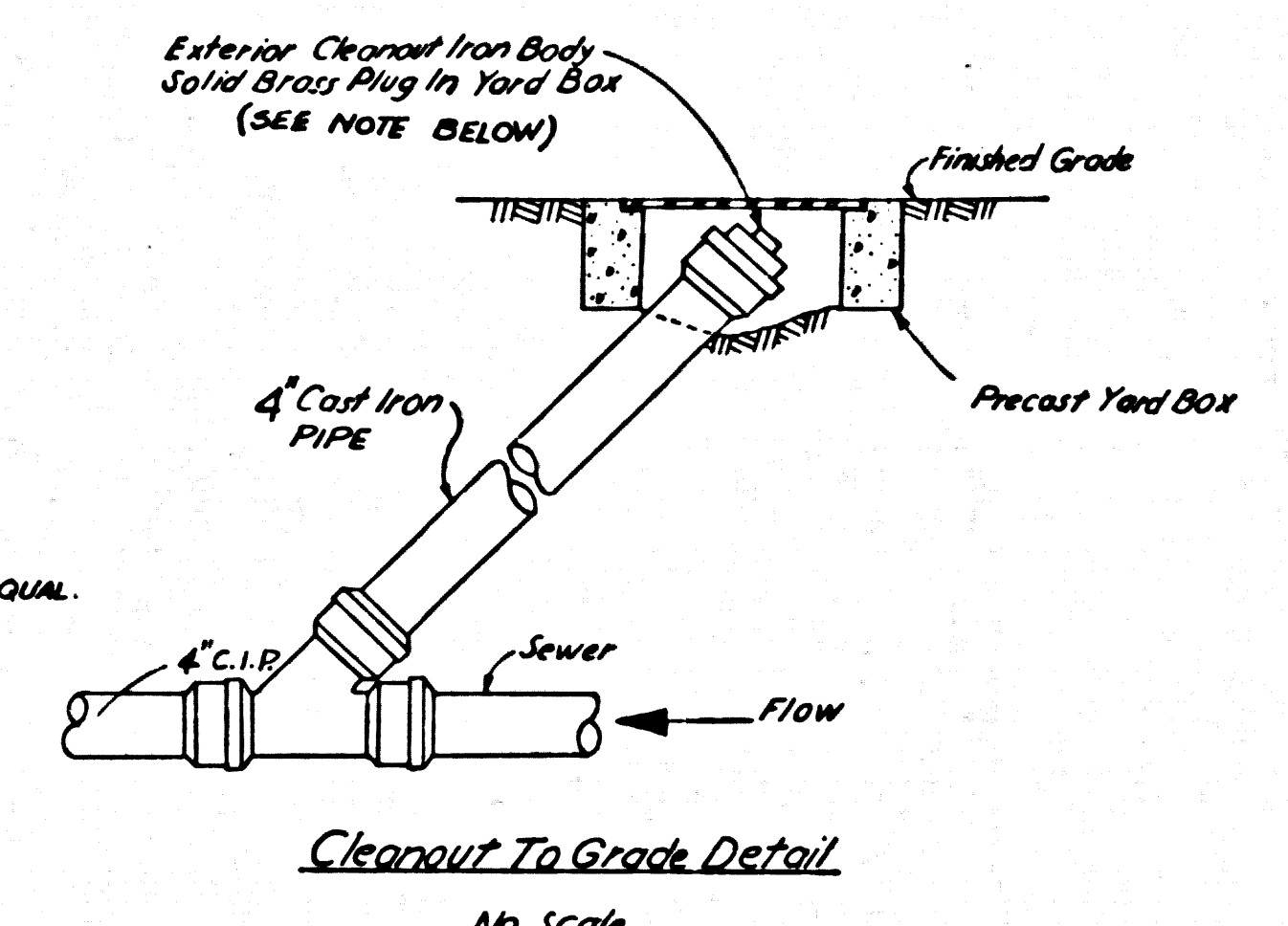
STEEL ALL STEEL #4@12"
#4@12"



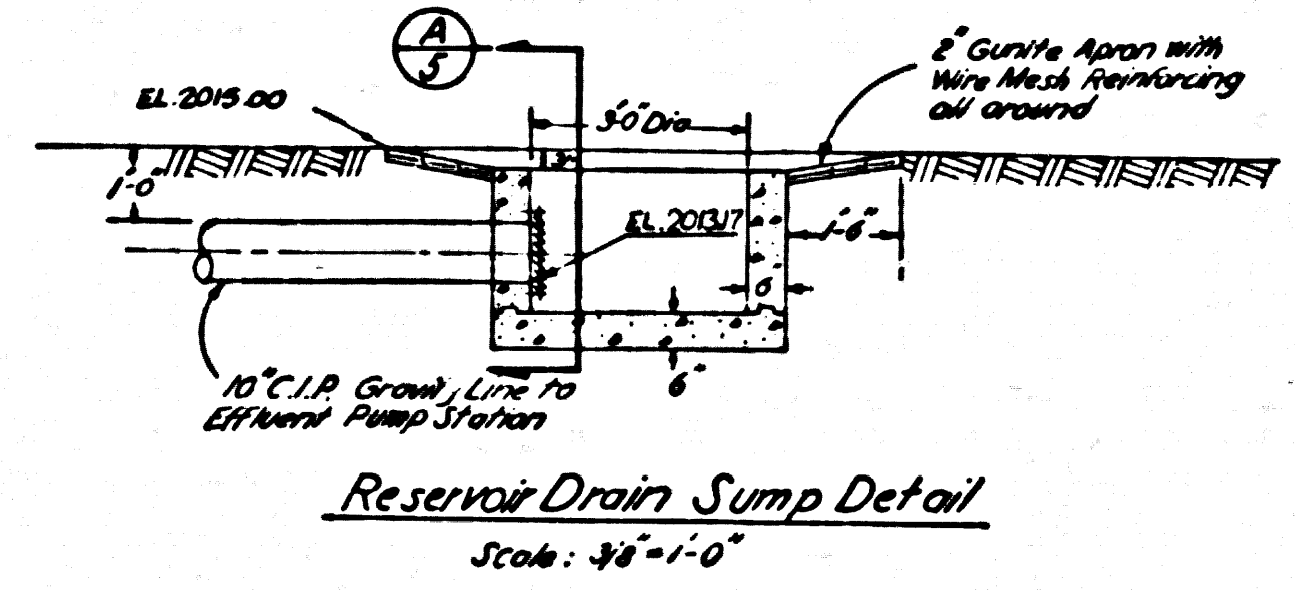
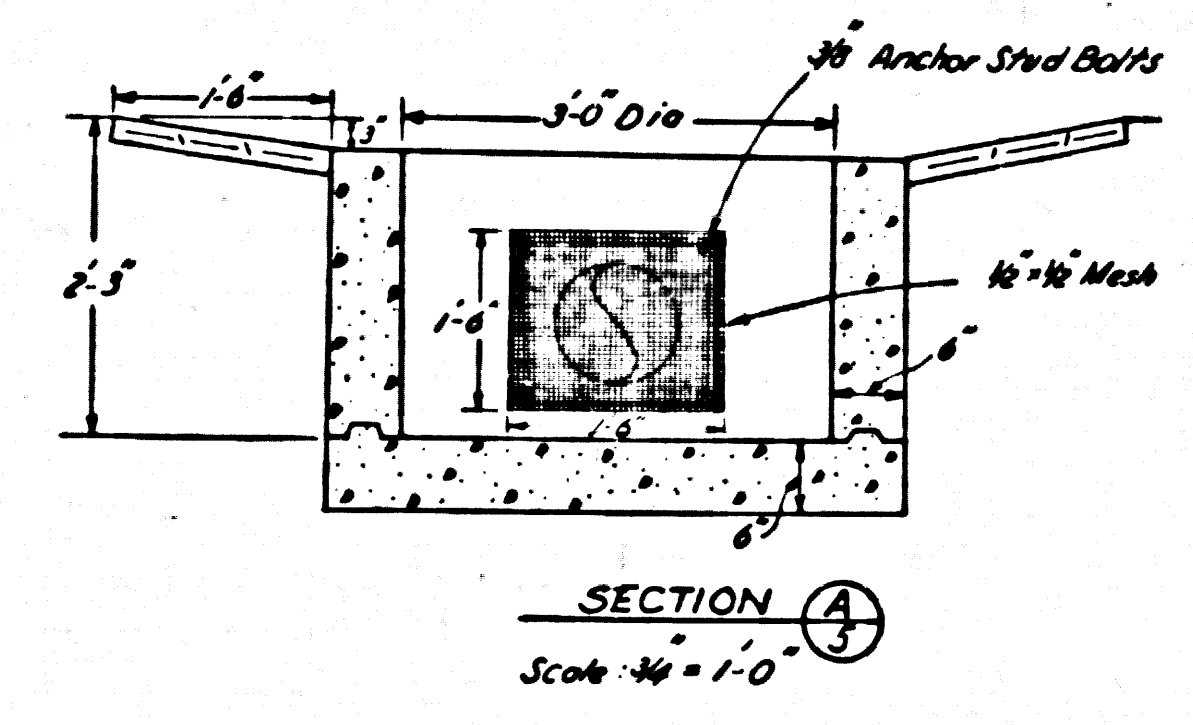
- Notes:
1. Verify Elevation of Existing Grade of Flow Division Chamber Location. Confirming exact location required, before ordering precast concrete box.
 2. Cover all welds with epoxy coating.



Flow Division Chamber
Scale: 1" = 1'-0"



Note:
Yard box required in paved areas only. In lawn areas, clear yard box and bring clearout to grade.

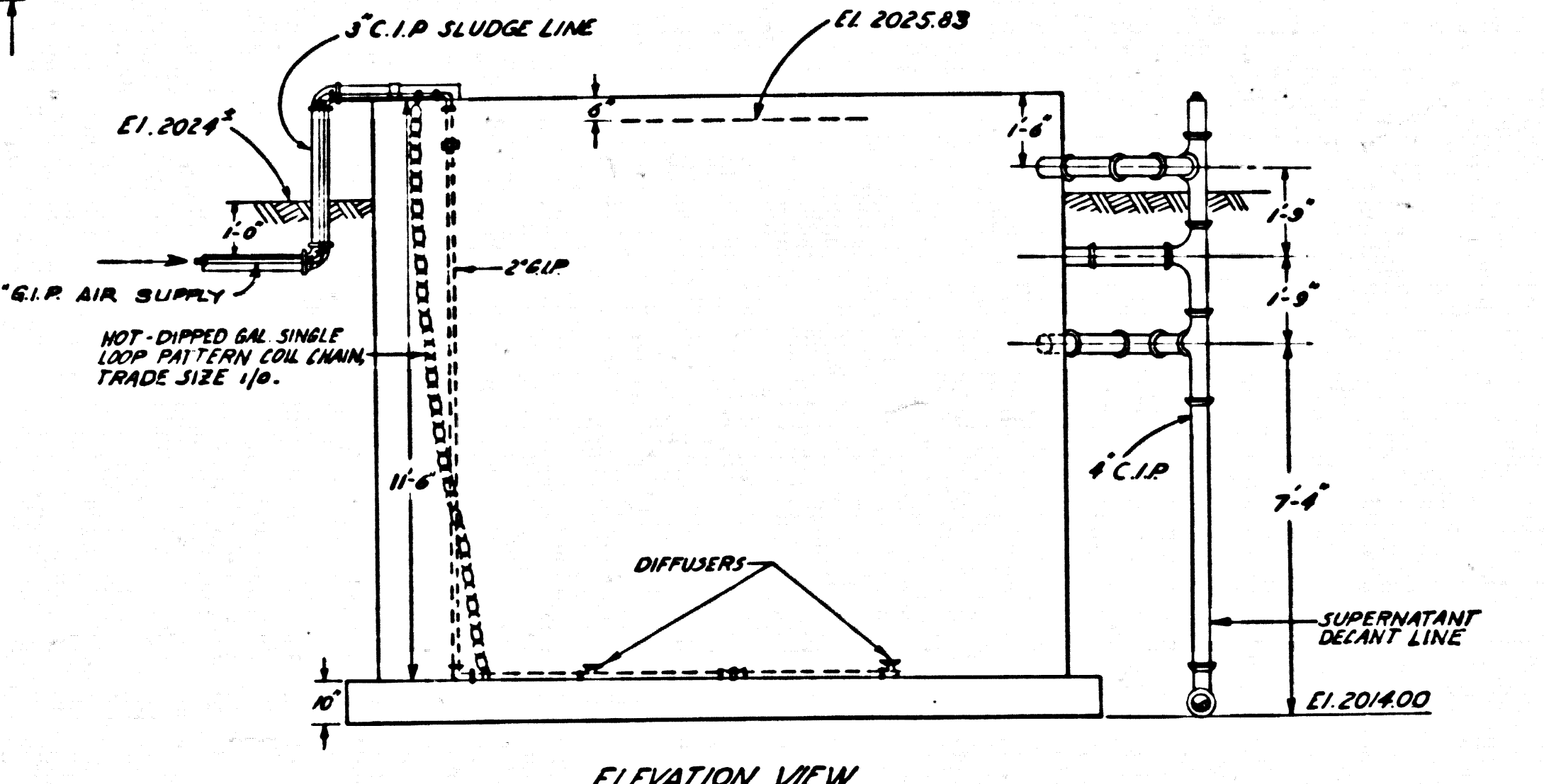
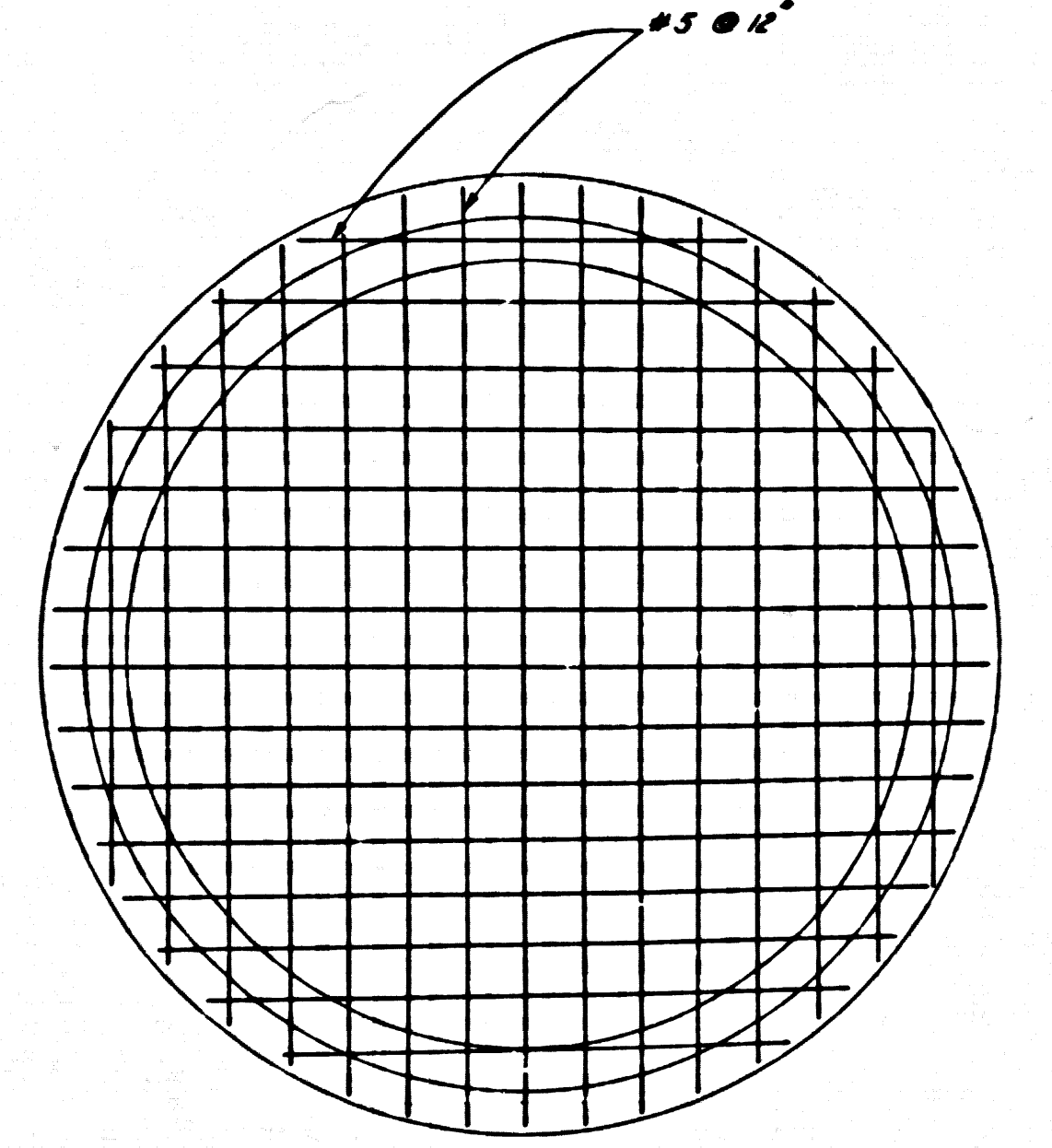
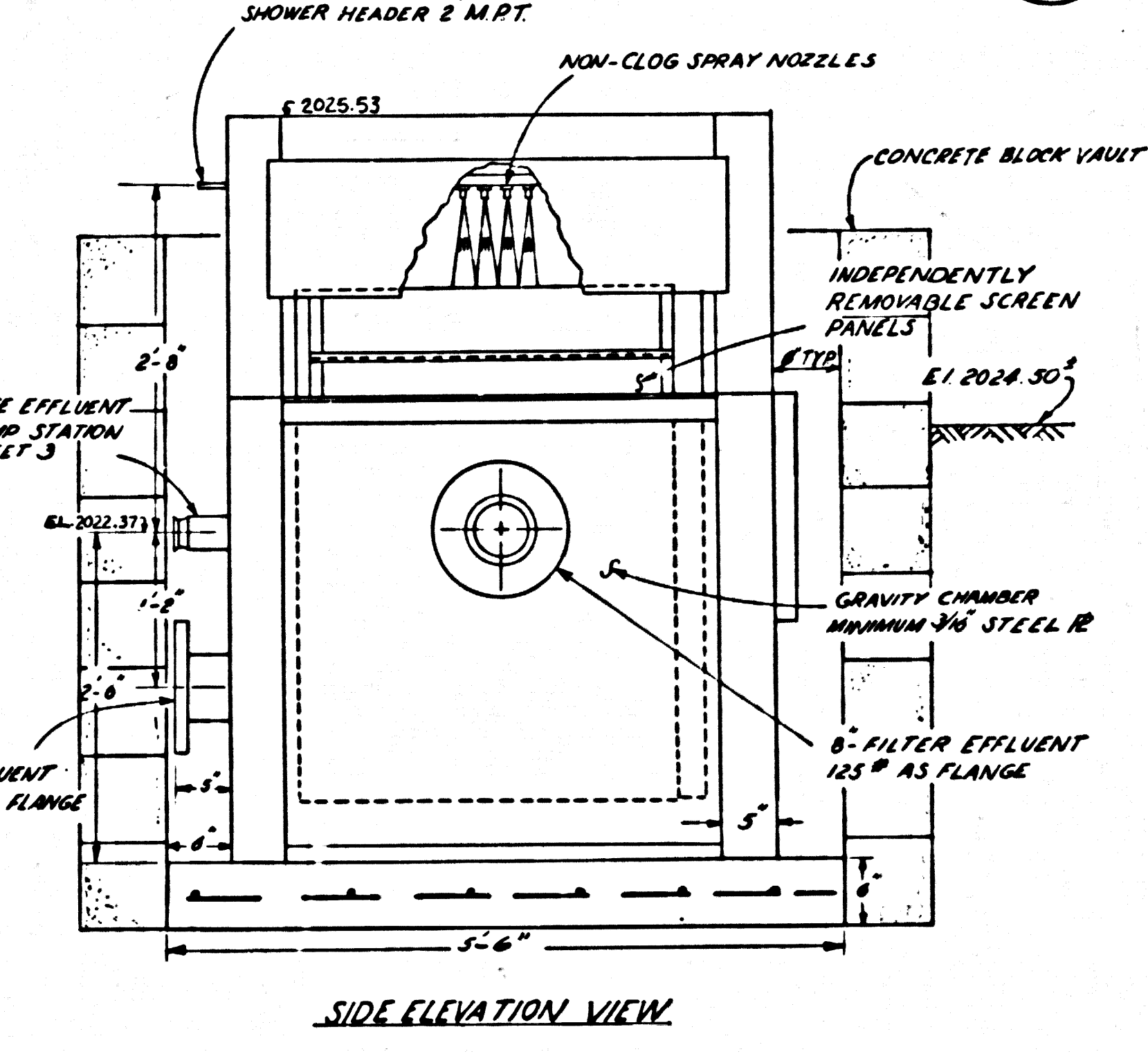
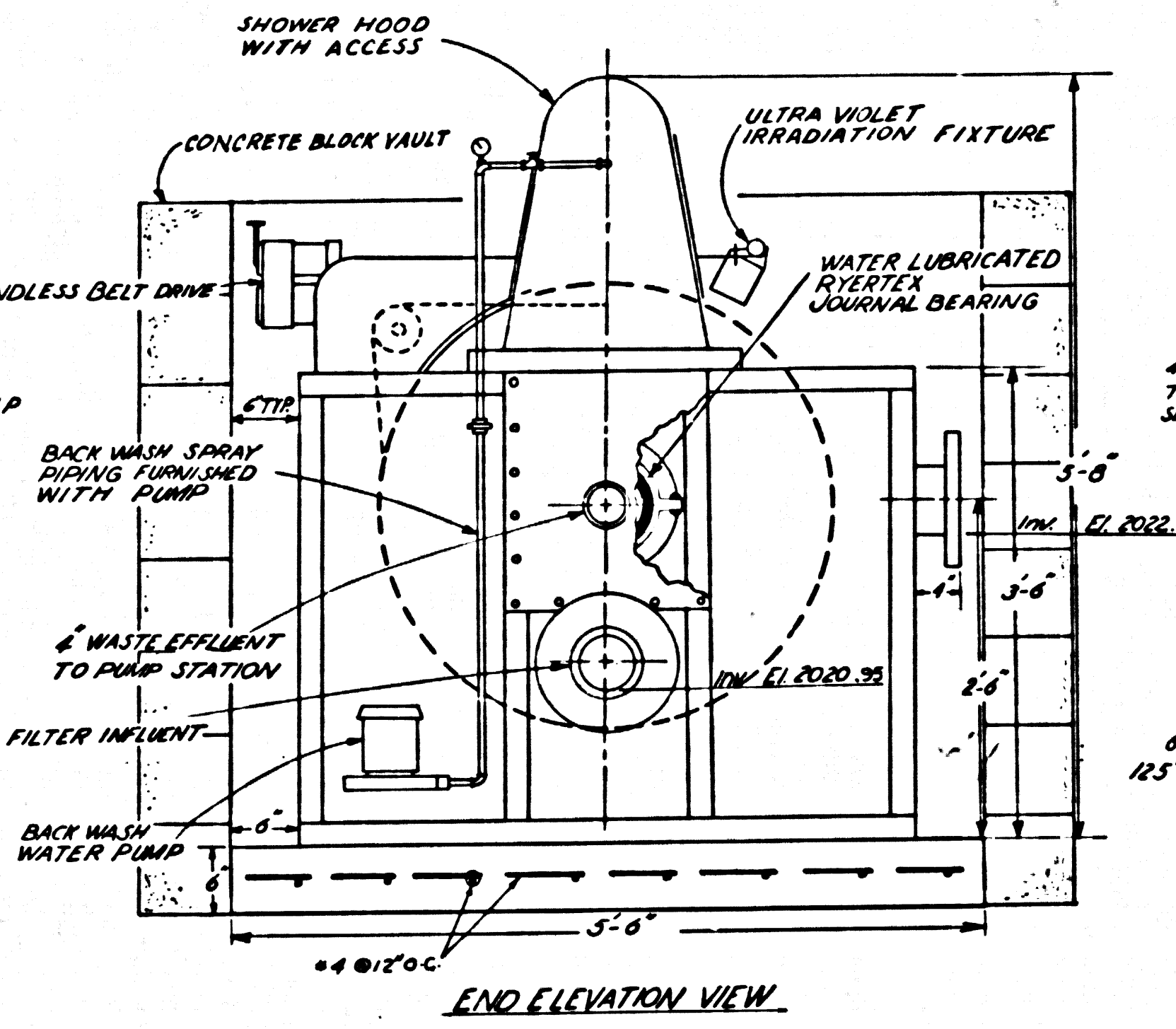
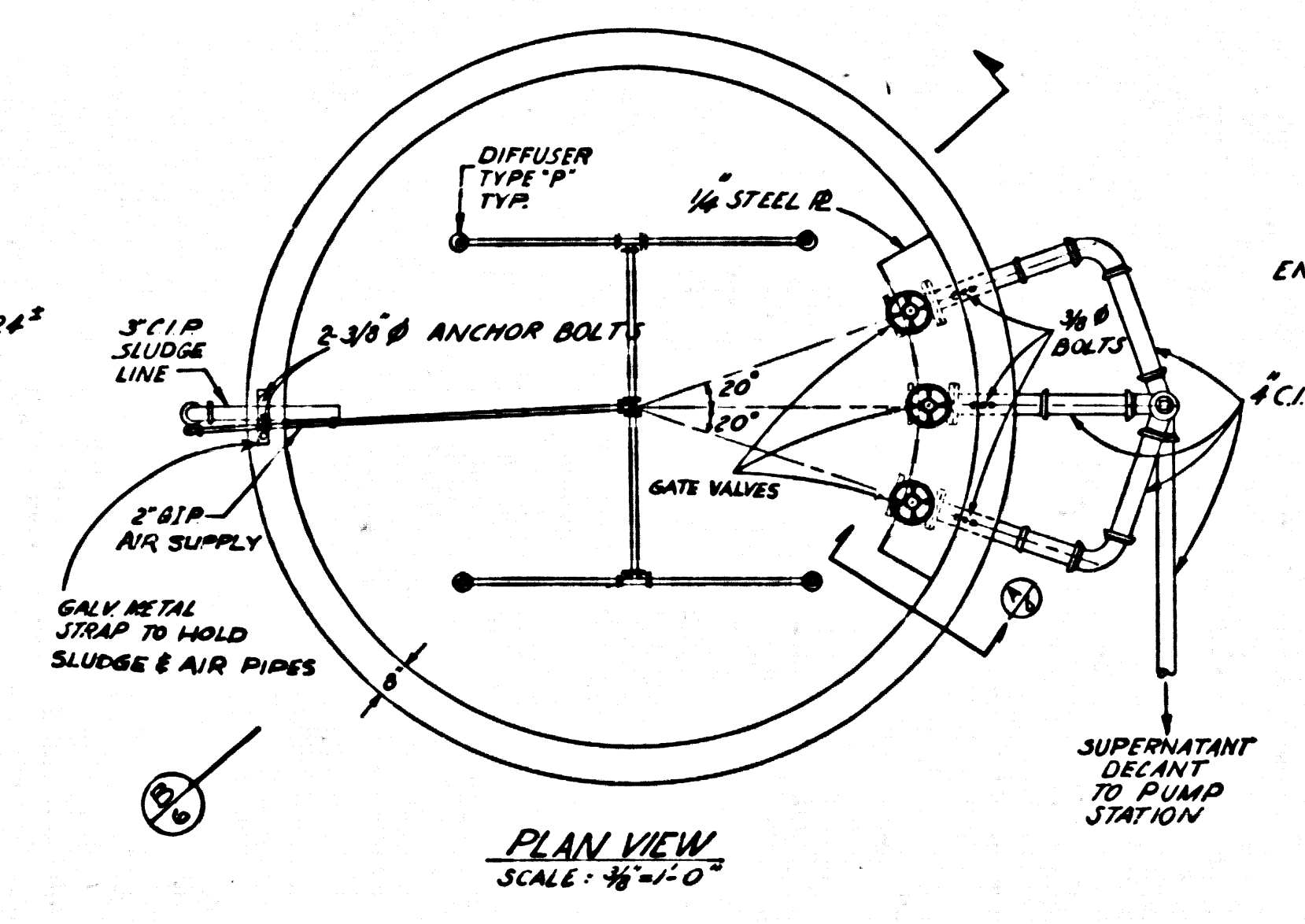
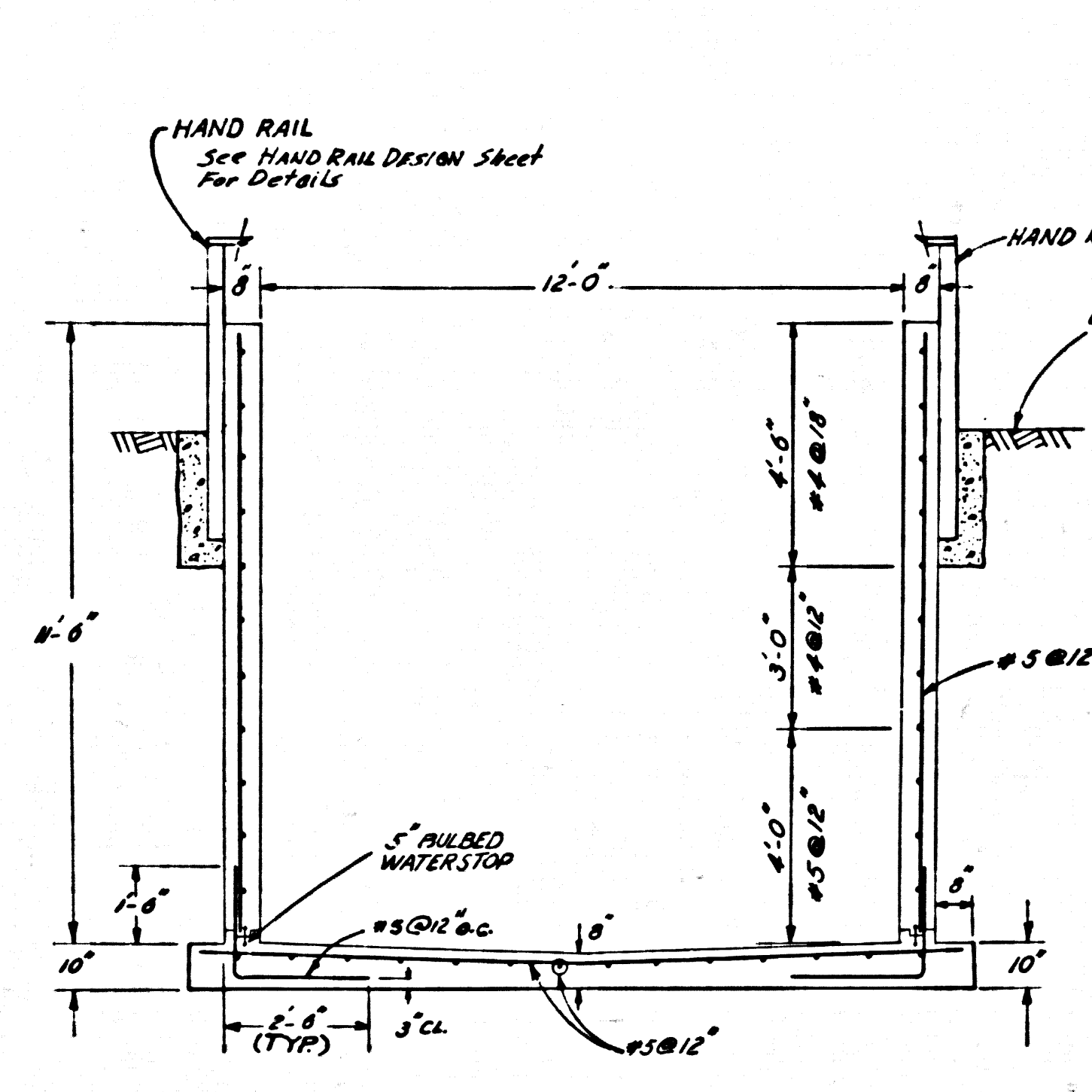


Retaining Walls
See sheet 45-3

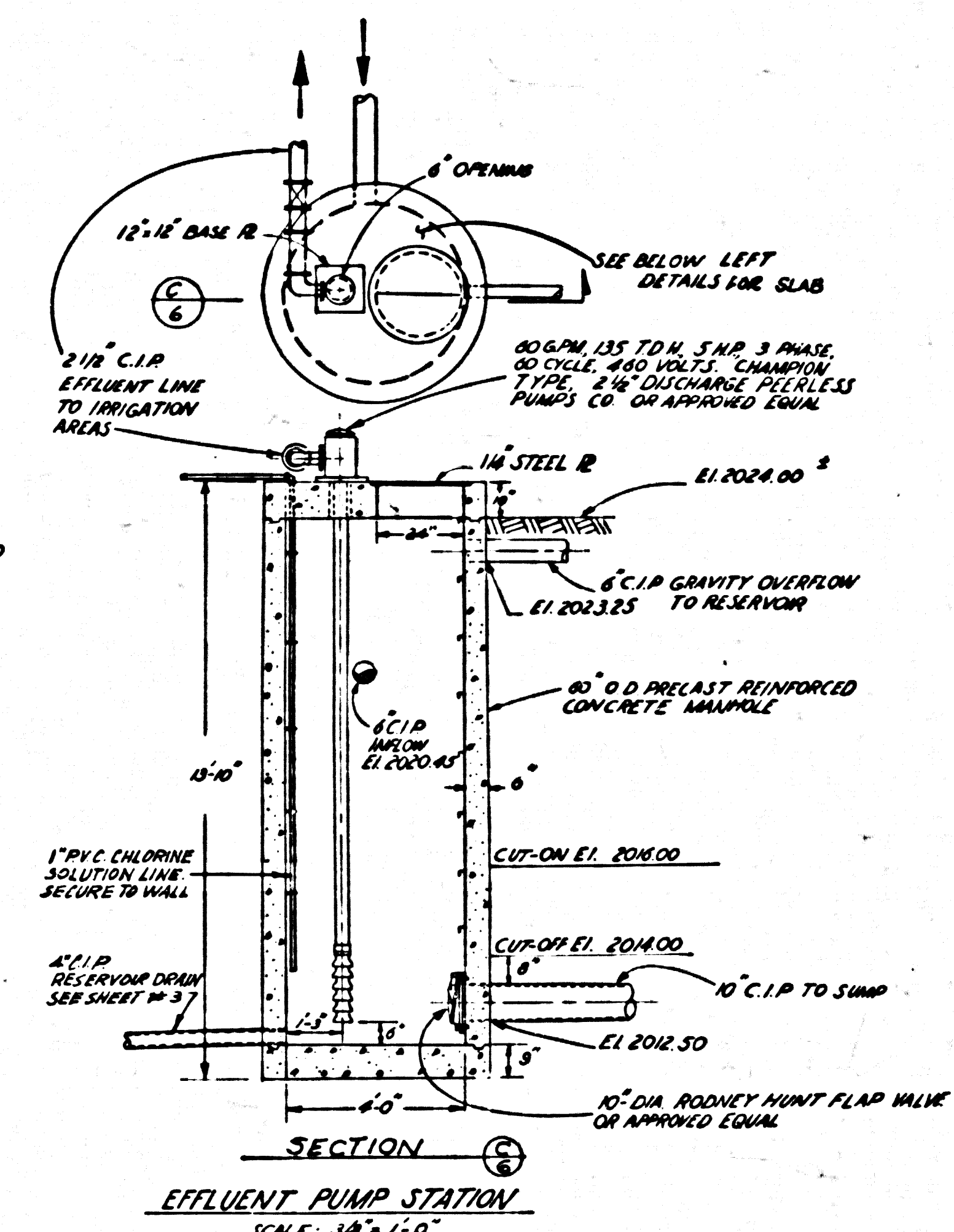
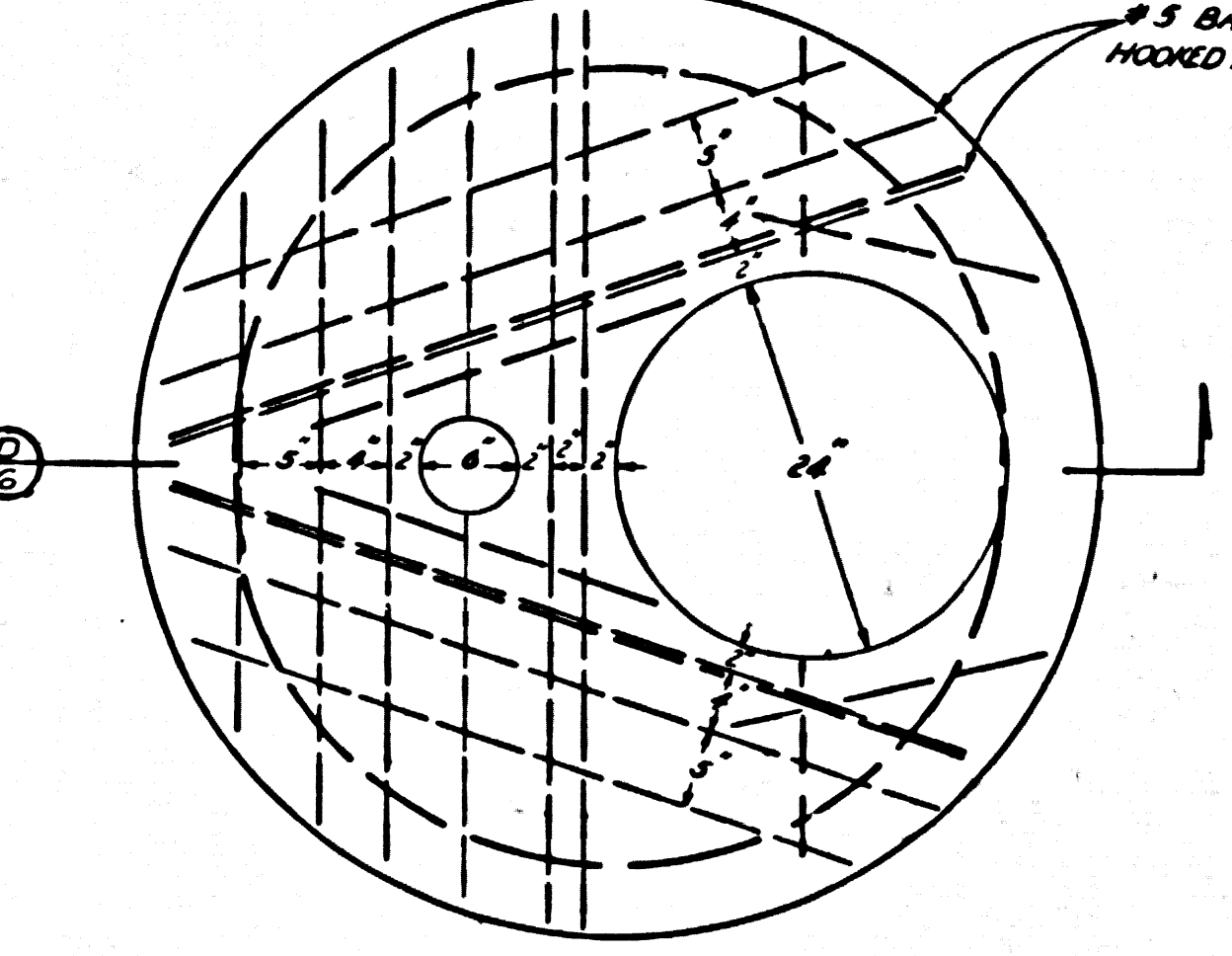
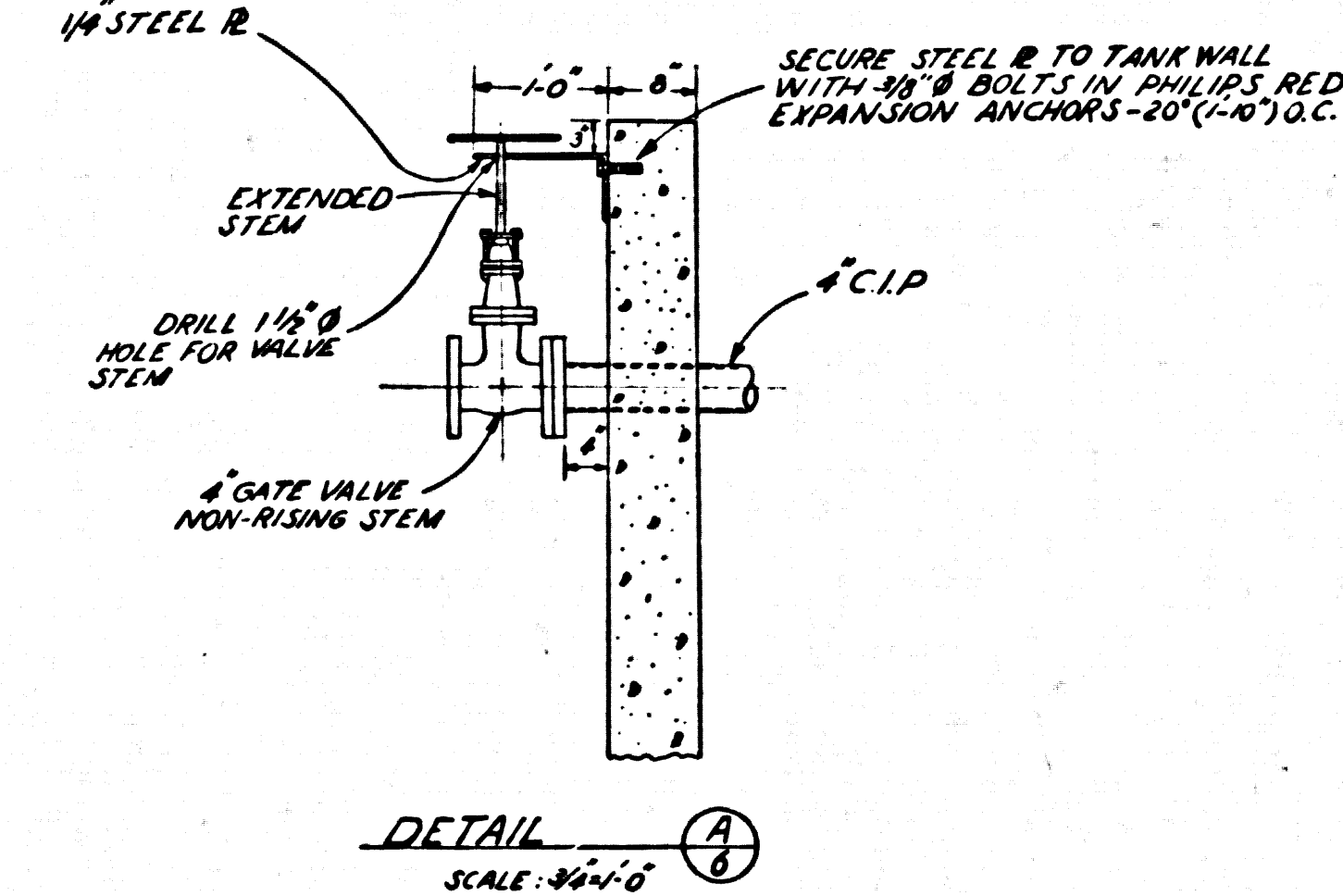
- NOTES
1. CONCRETE USED IN RETAINING WALLS SHALL DEVELOP A MINIMUM 18-DAY COMPRESSIVE STRENGTH OF 3000 PSI.
 2. REINFORCING STEEL SHALL BE INTERMEDIATE GRADE BULLET STEEL AND SHALL CONFORM TO ASTM A618 GRADE 42.
 3. FOR CONSTRUCTION OF RETAINING WALLS CONTINUOUS INSPECTION IS REQUIRED.
 4. SOIL IS COMPOSED OF SAND AND SILT MIXTURES-ALLOWABLE PRESSURE 4,000 P.S.F.

COUNTY OF LOS ANGELES		DEPARTMENT OF COUNTY ENGINEER
SANITATION DIVISION		MARCH 1978
HARVEY T. BRANDT, COUNTY ENGINEER		
SEWAGE TREATMENT PLANT IMPROVEMENTS WARMA SPRINGS CAMP REHABILITATION CENTER		
TREATMENT PLANT DETAILS		
CHECKED: L. J. B. 10/10/78	DRAWN: BEHJAN	DESIGNED: BEHJAN
SCALE: AS SHOWN		SHEET 5 OF 10 SHEETS

45649



NOTES:
THE ROTARY FILTER DRUM UNIT SHALL BE A ROTOCLEAR TYPE WALKER PROCESS DIVISION OF CHENIERE BRIDGE (FROM CO. SERIES 6181-G-312-10) APPROVED EQUAL.

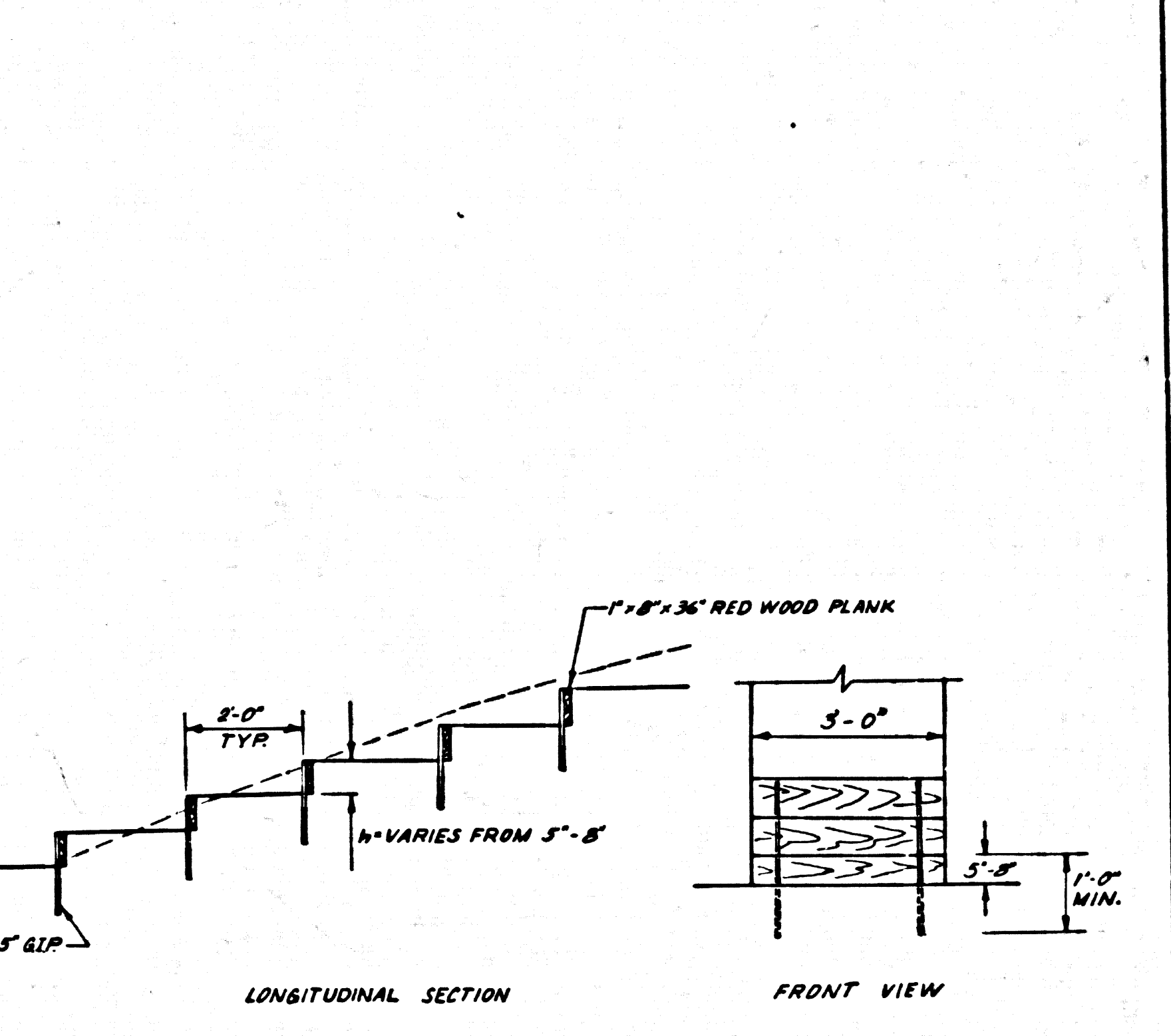
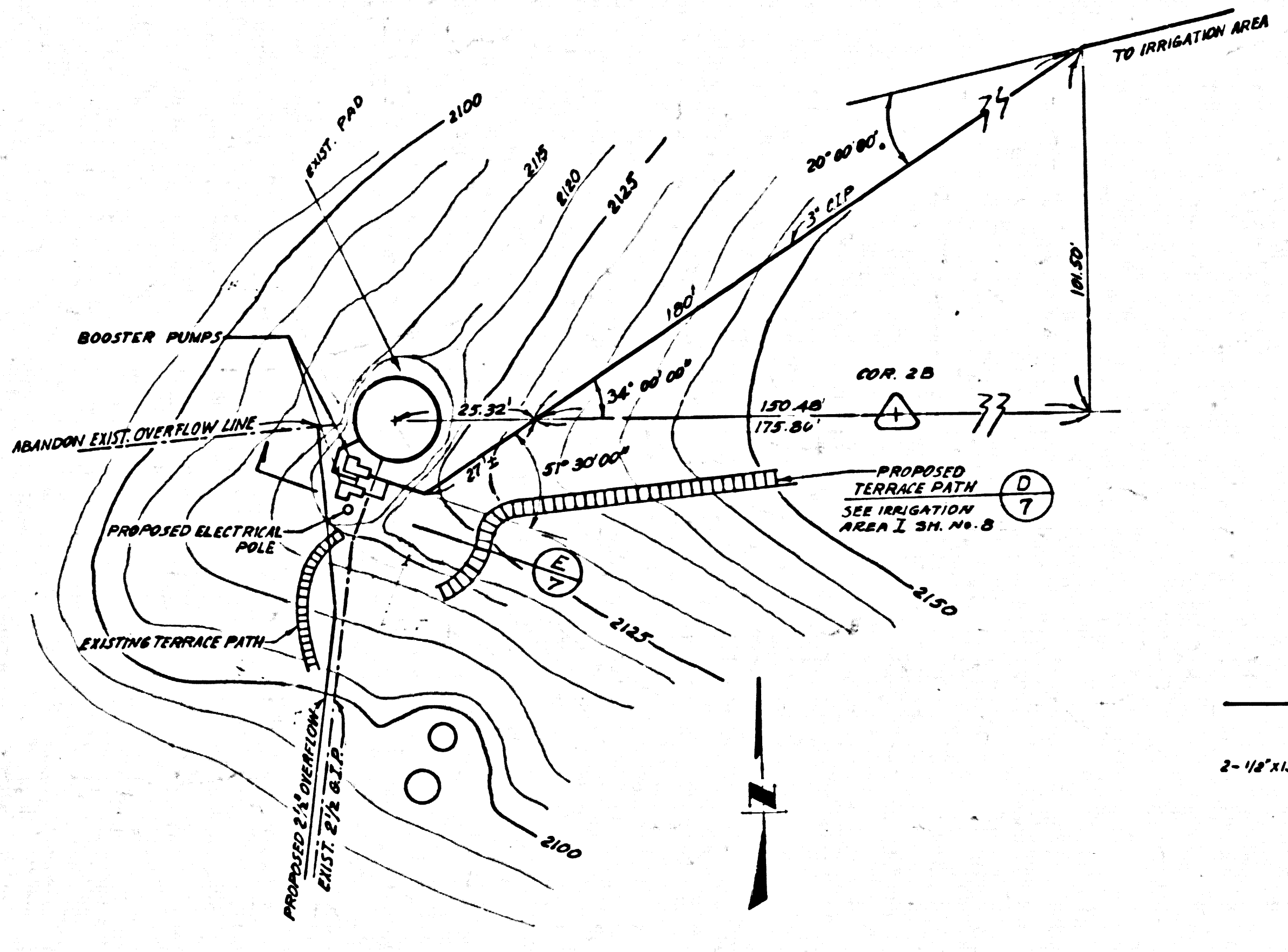
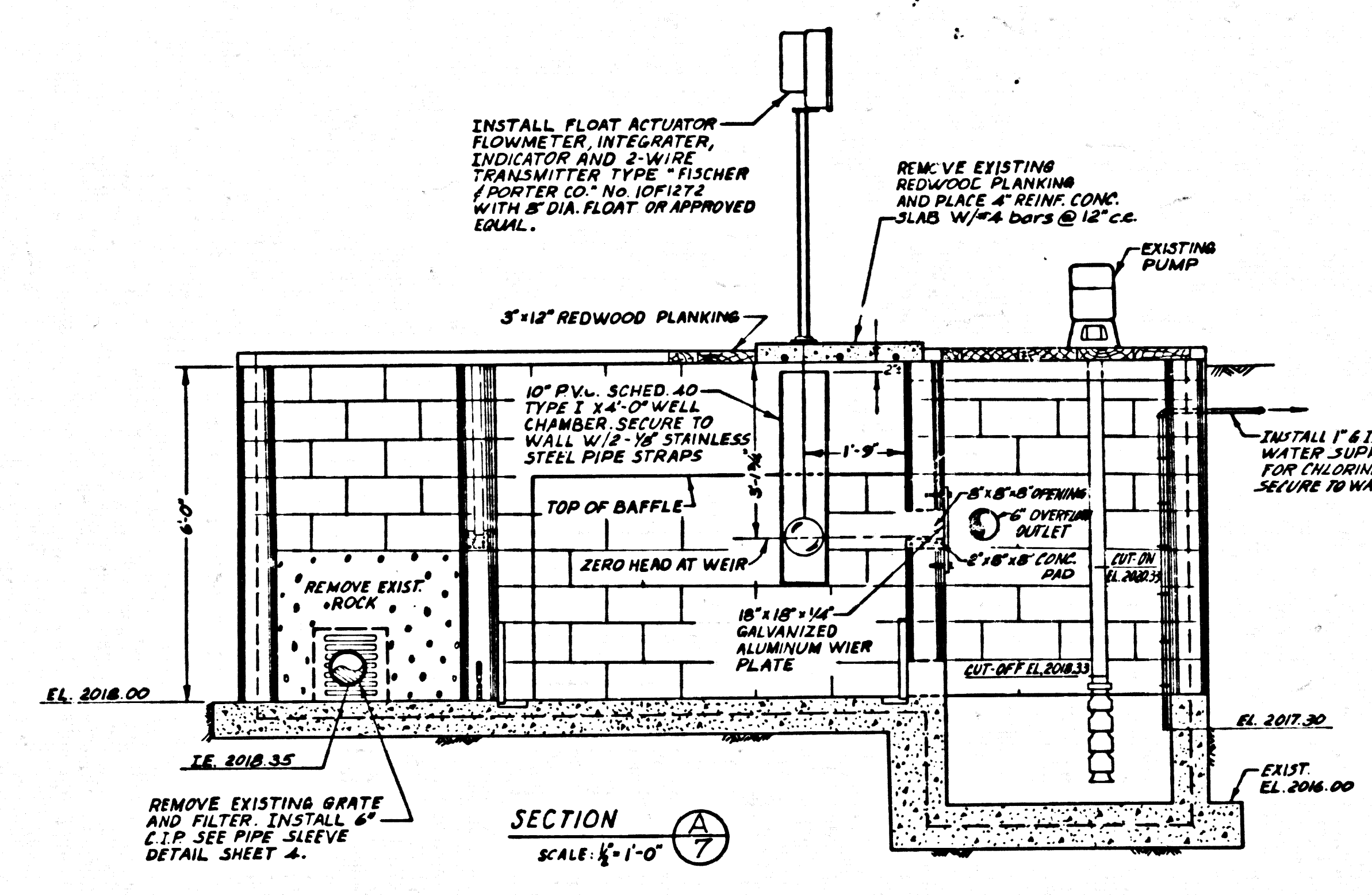
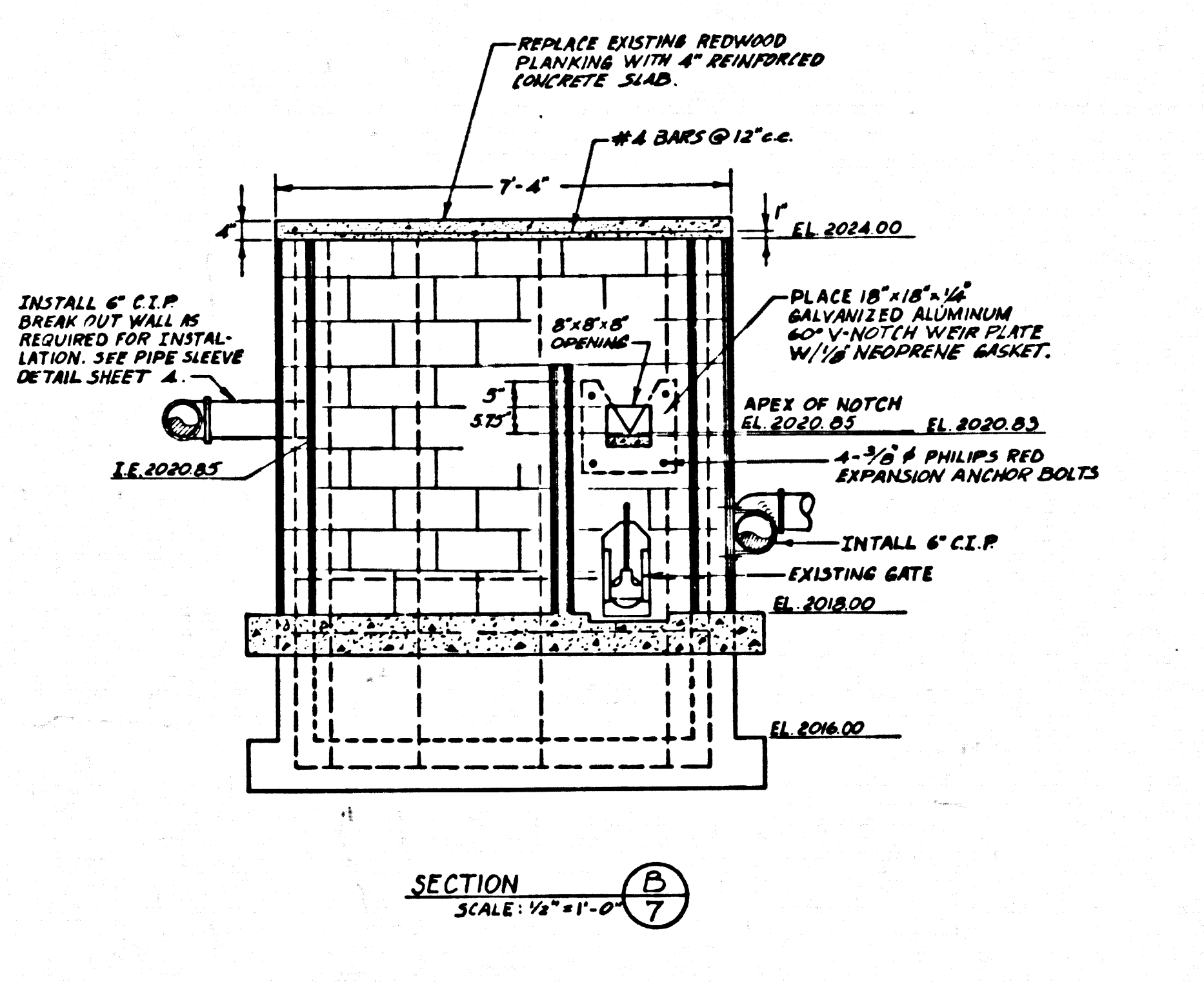
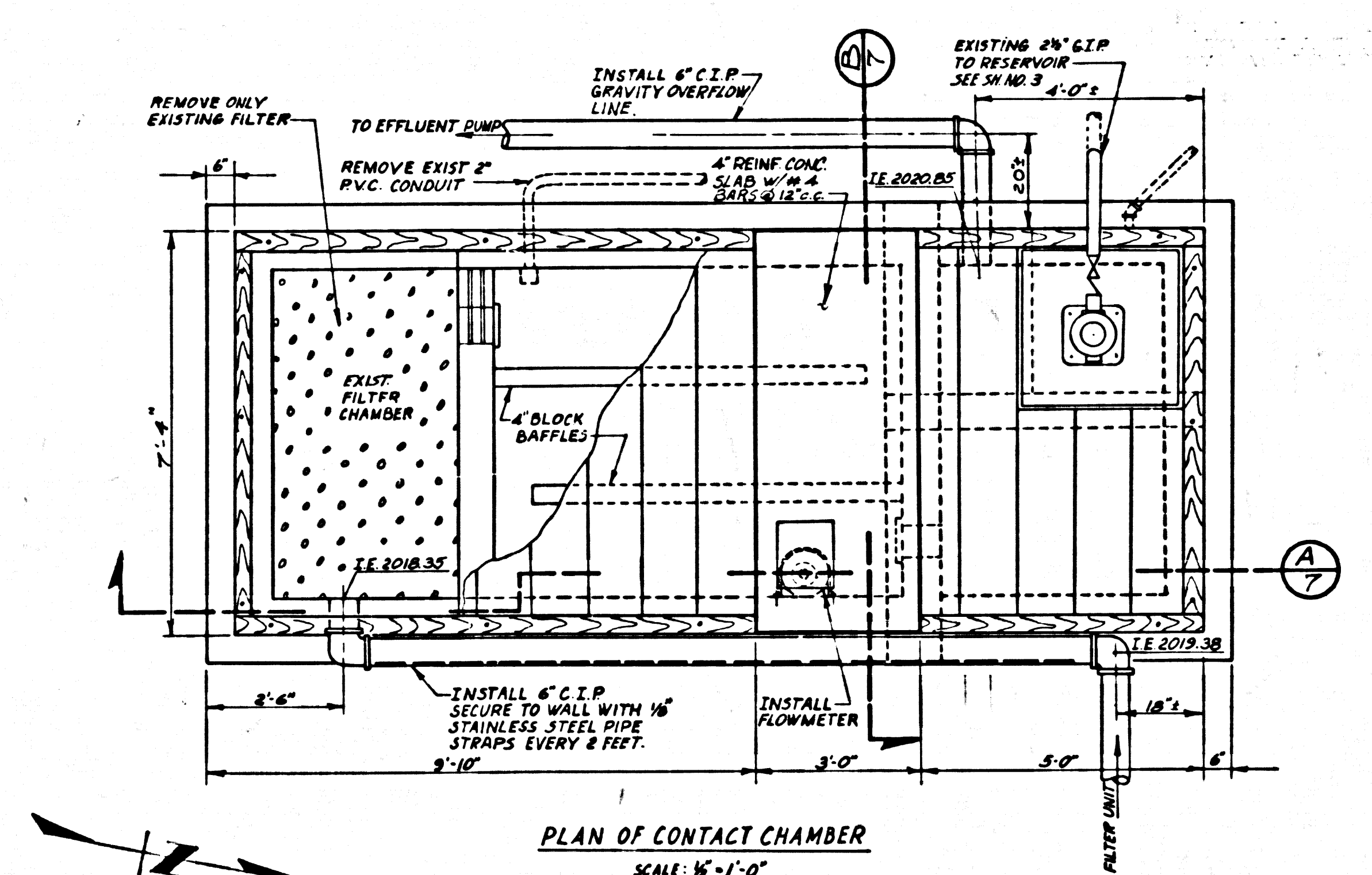


SLUDGE HOLDING TANK DETAILS (SEE SHEET 3)
SCALE AS SHOWN

EFFLUENT PUMP STATION TOP SLAB DETAILS
SCALE: 1" = 1'-0"

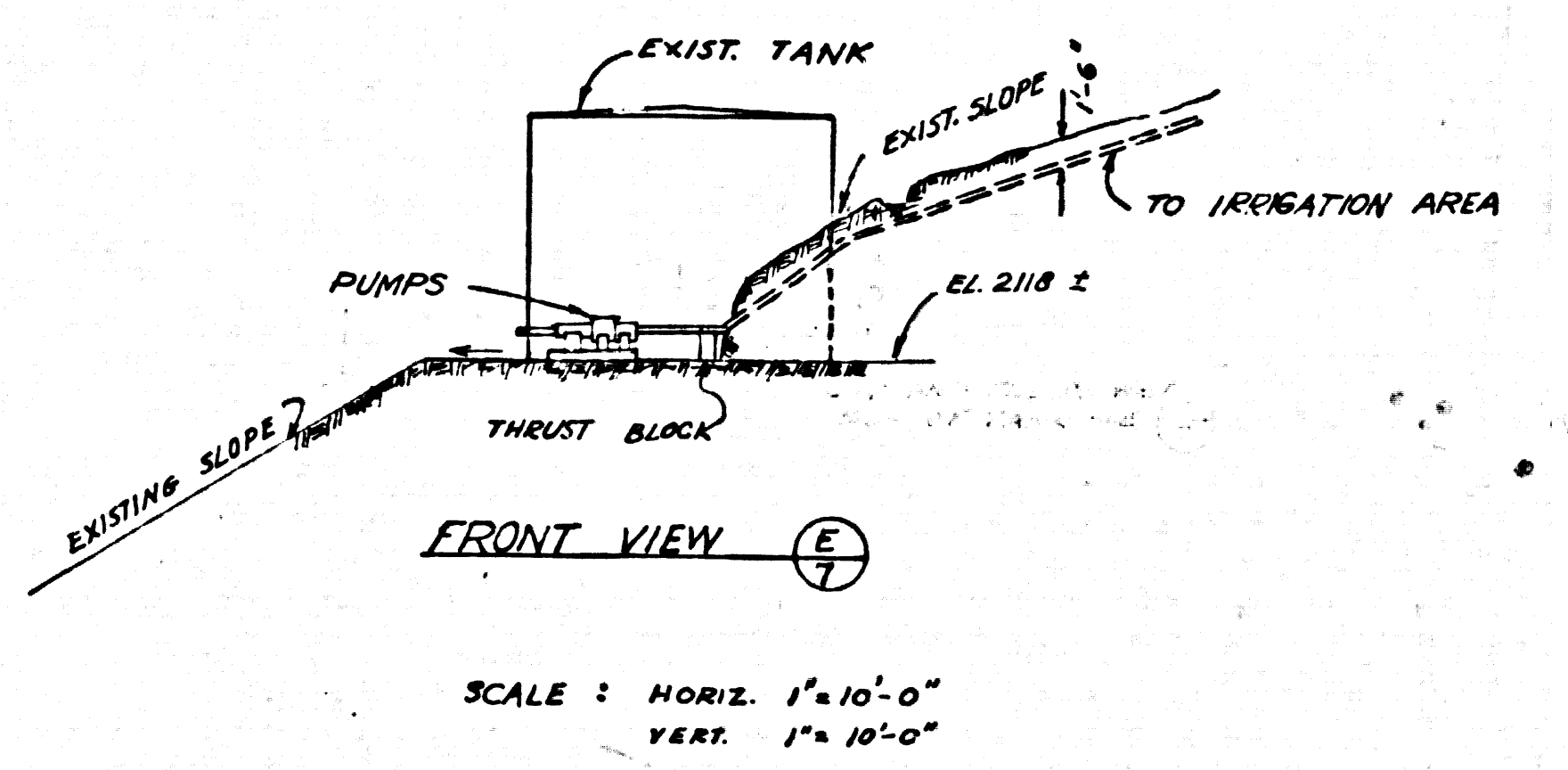
COUNTY OF LOS ANGELES		DEPARTMENT OF COUNTY ENGINEER	
SANITATION DIVISION		MARCH, 1974	
HARVEY T. BRANDT, COUNTY ENGINEER			
SEWAGE TREATMENT PLANT IMPROVEMENTS WARM SPRINGS CAMP REHABILITATION CENTER FILTER UNIT AND SLUDGE HOLDING TANK			
CHECKED: Brian E. Saunders 021096 4-18-74	DRAWN: BEHJAN	DESIGNED: BEHJAN	SCALE: AS SHOWN SHEET 6 OF 10 SHEETS

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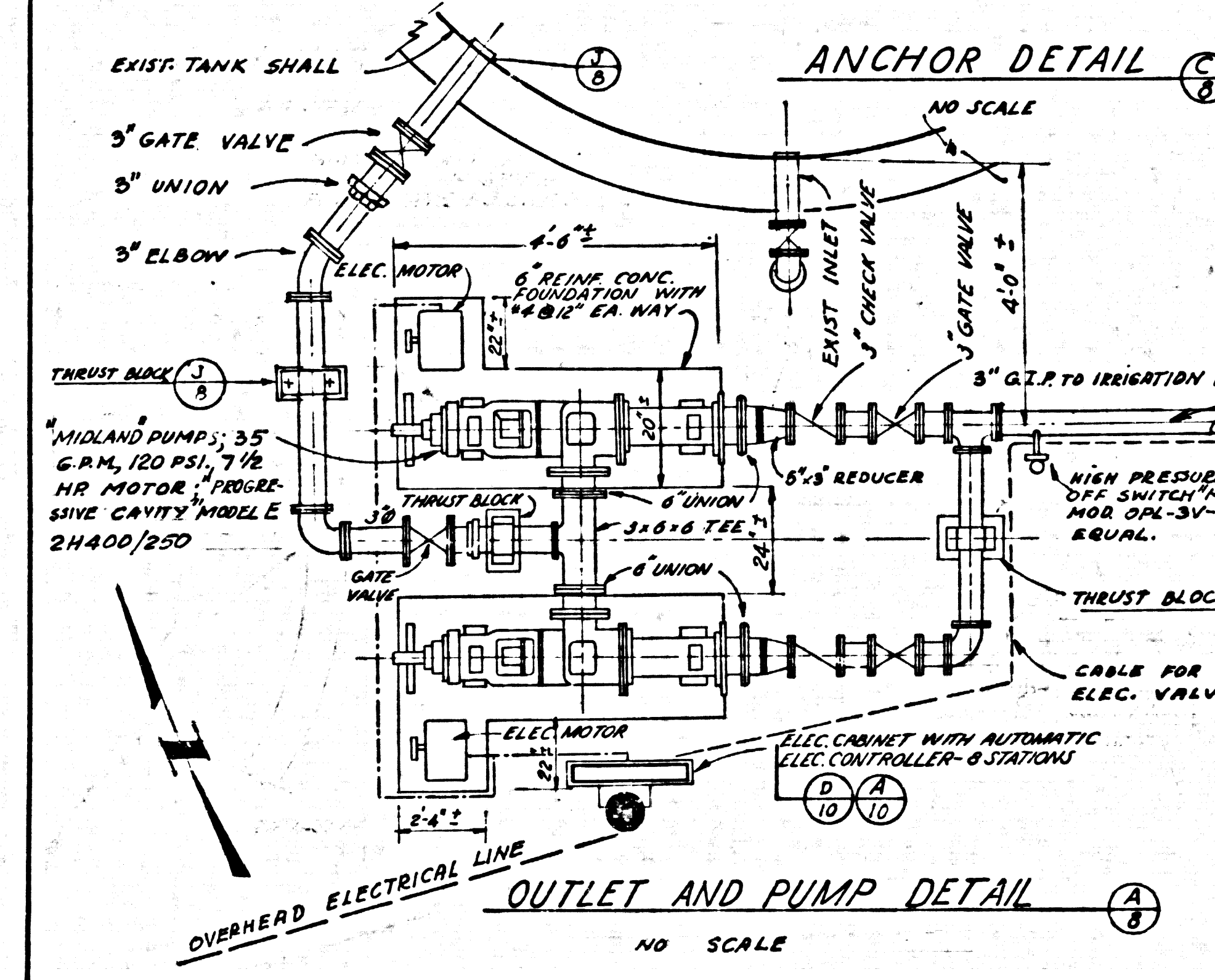
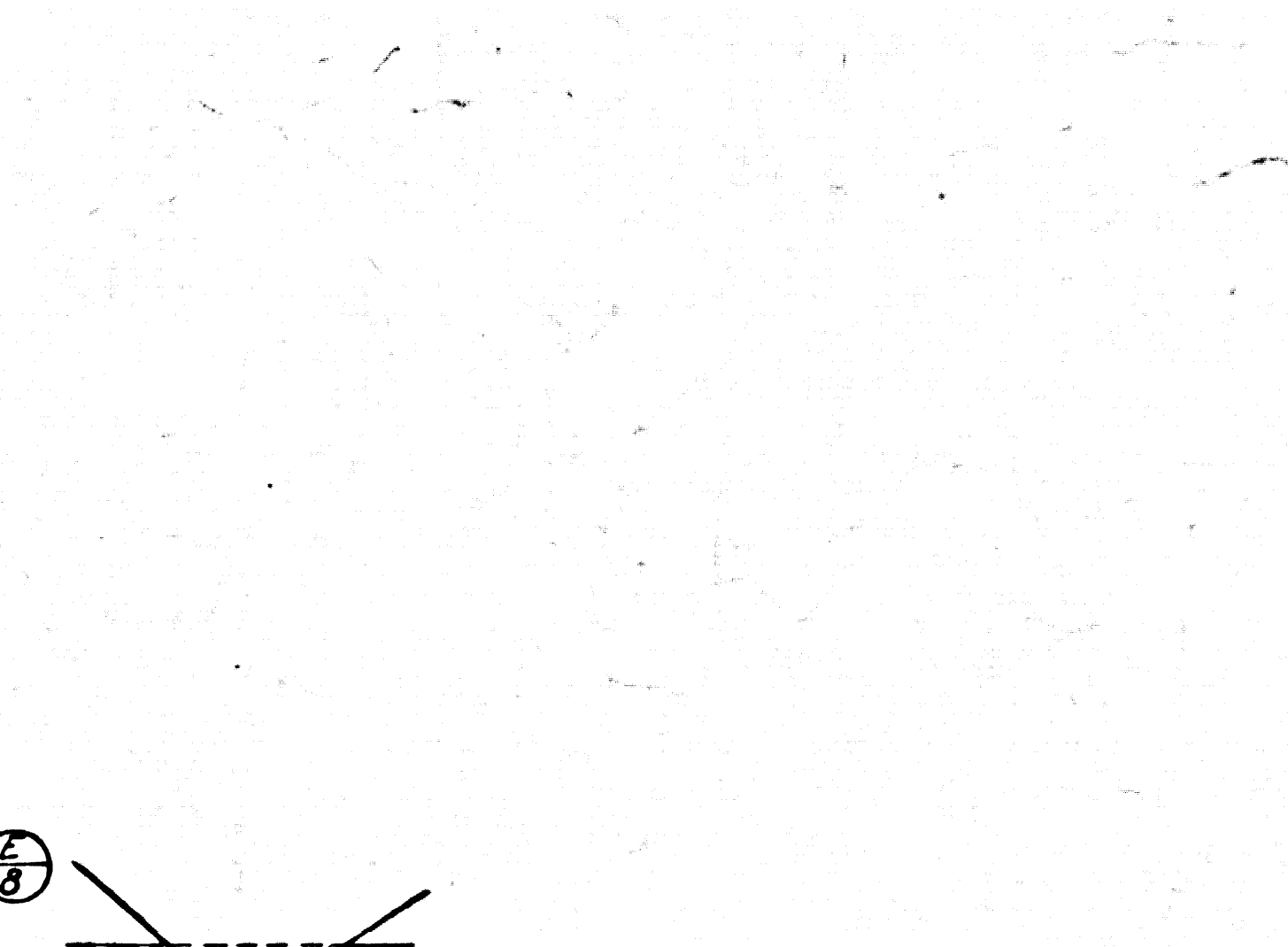
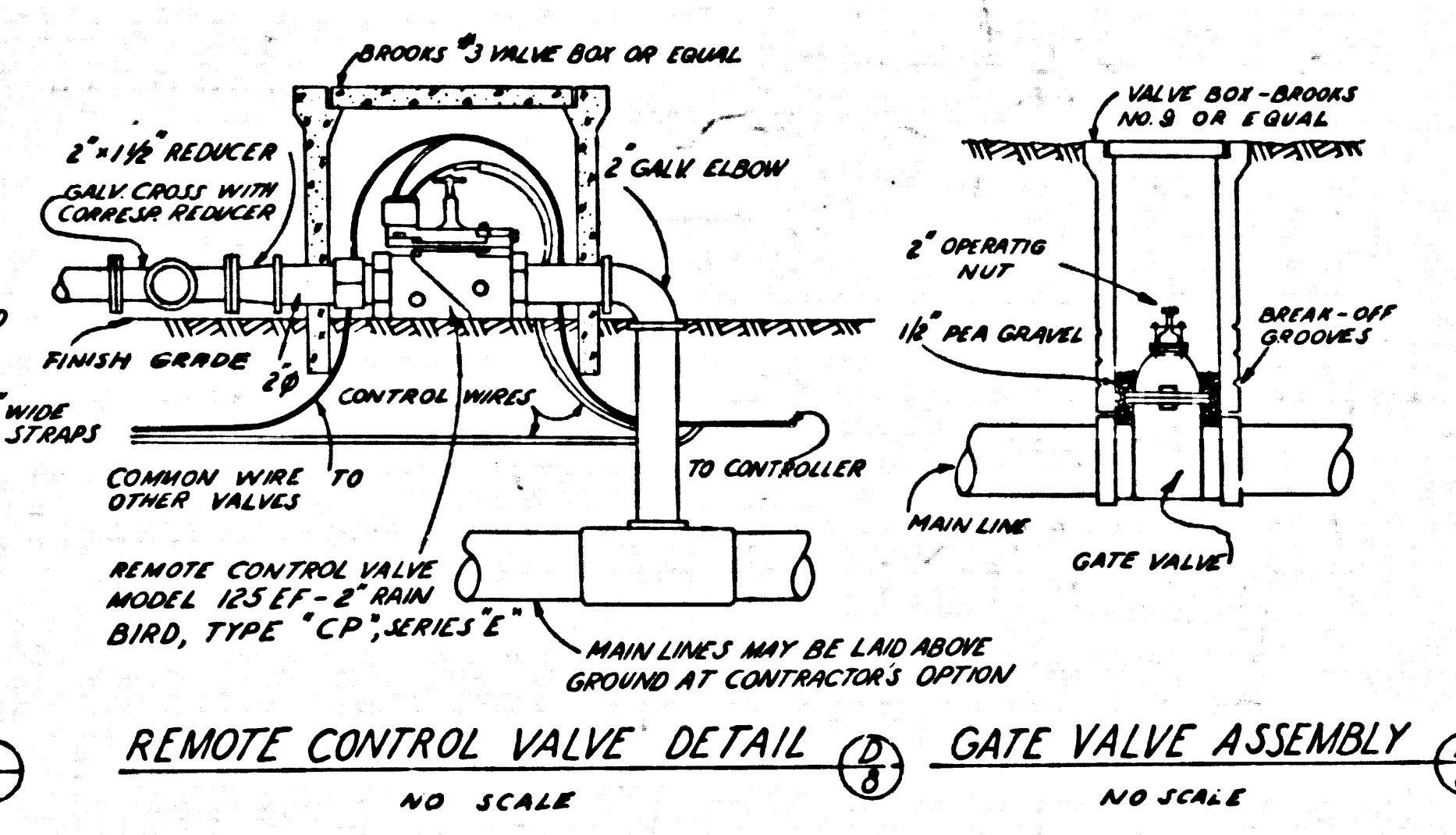
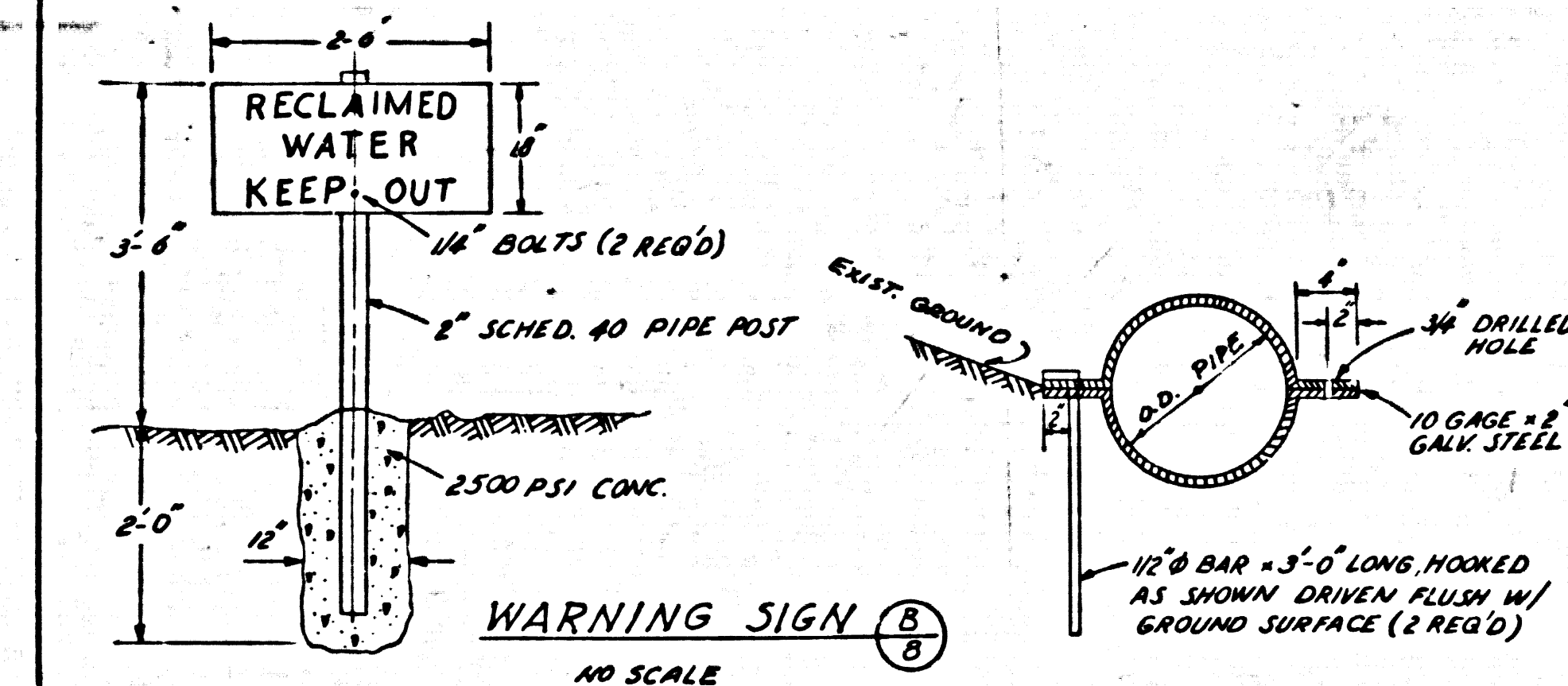
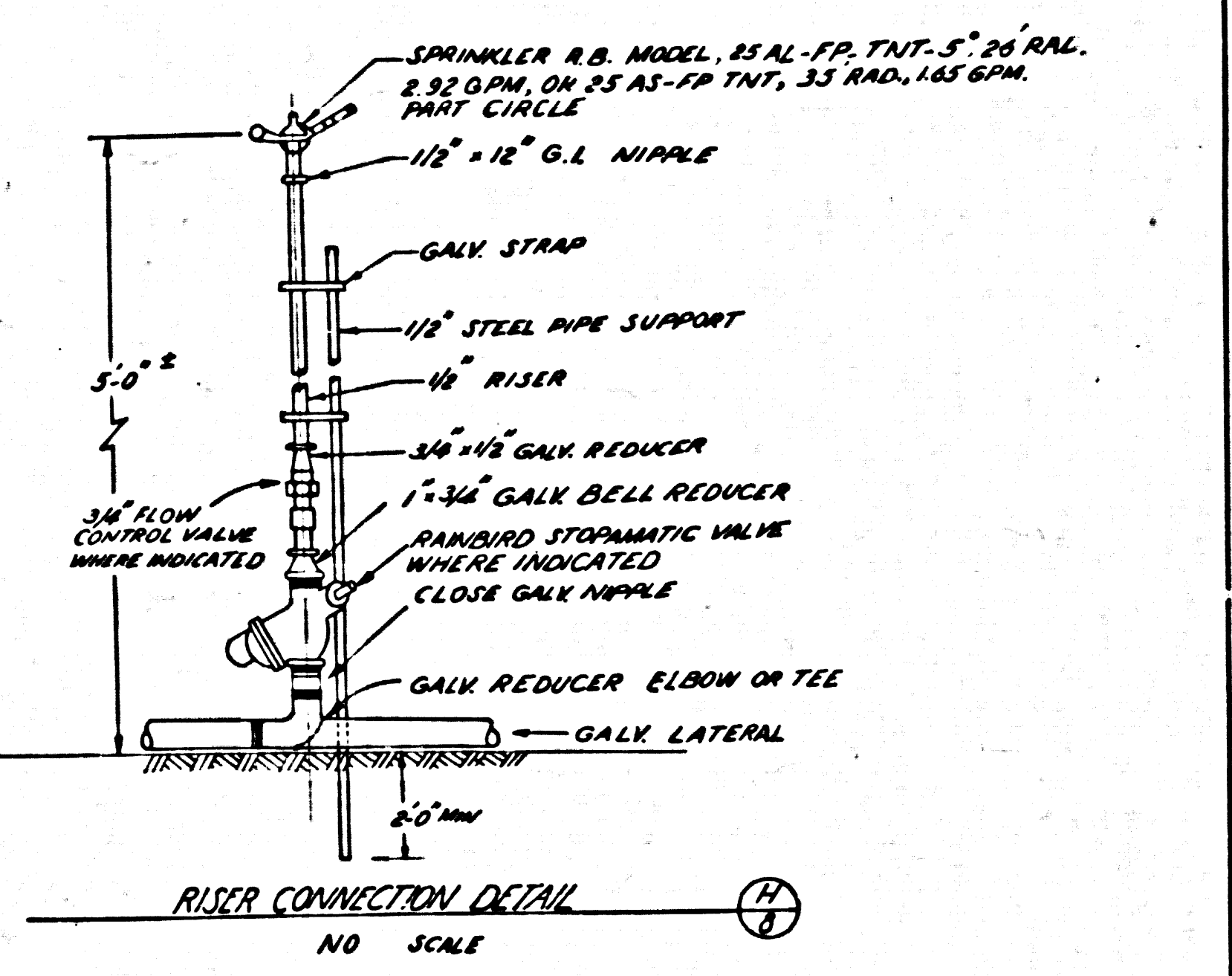
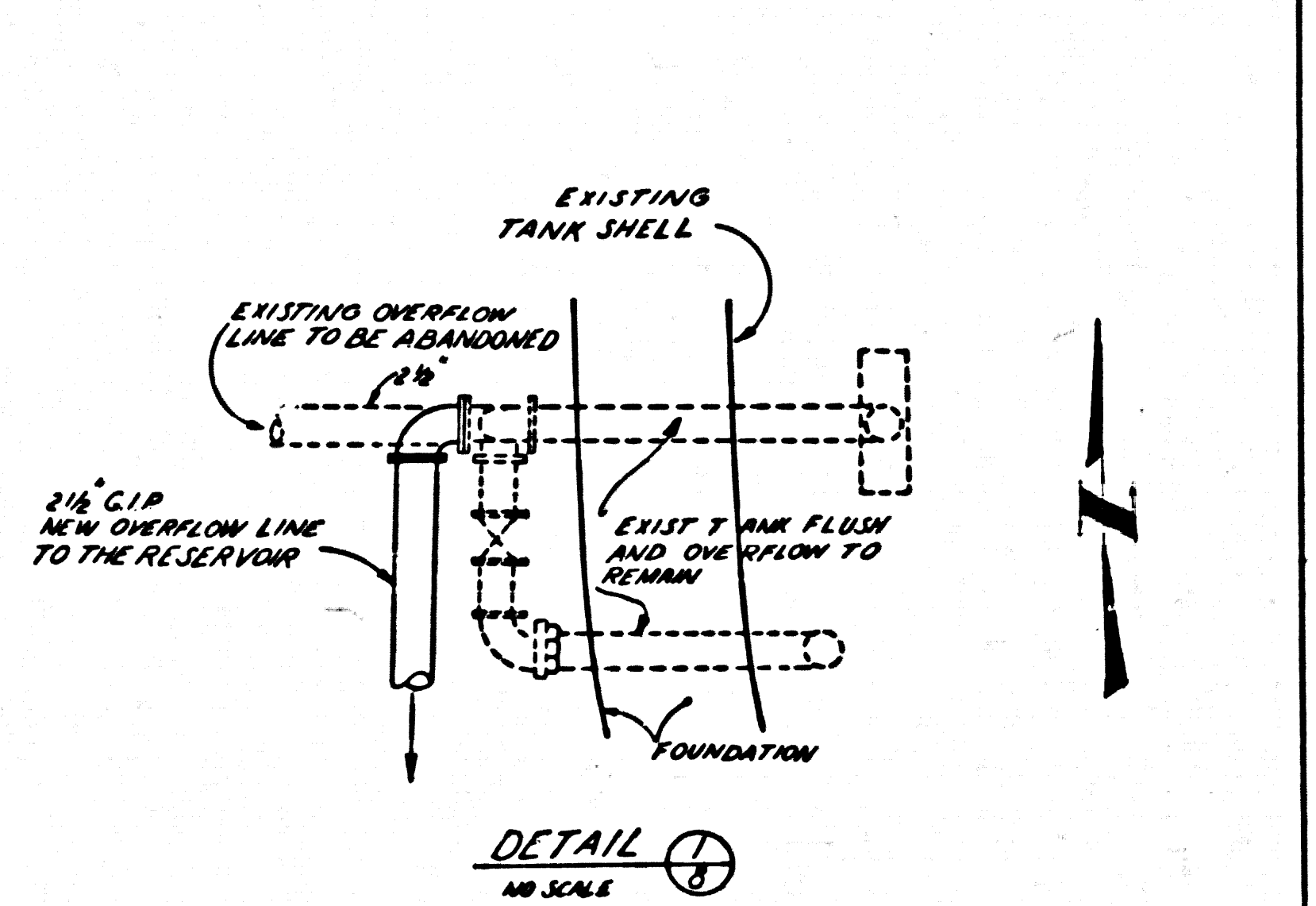
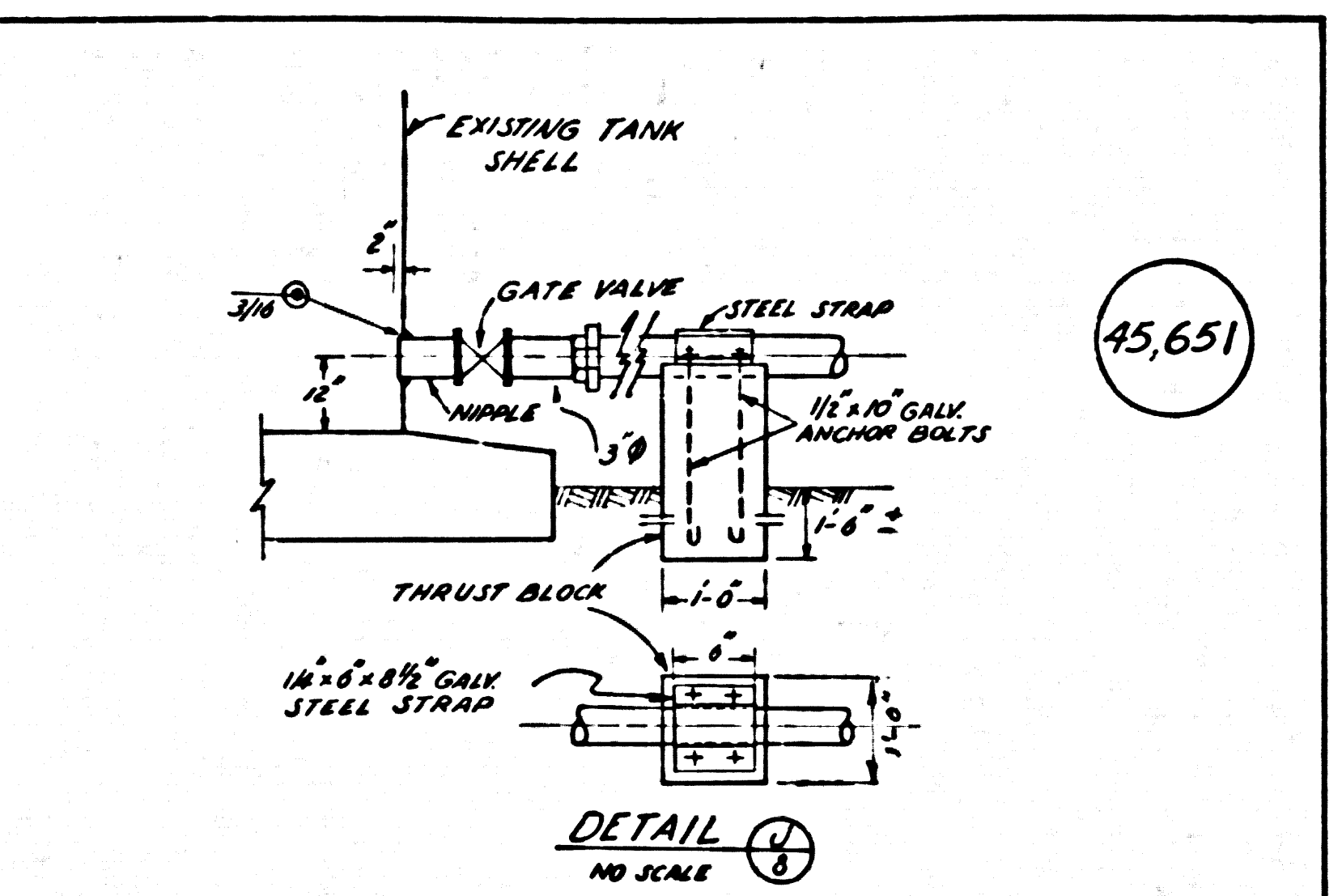
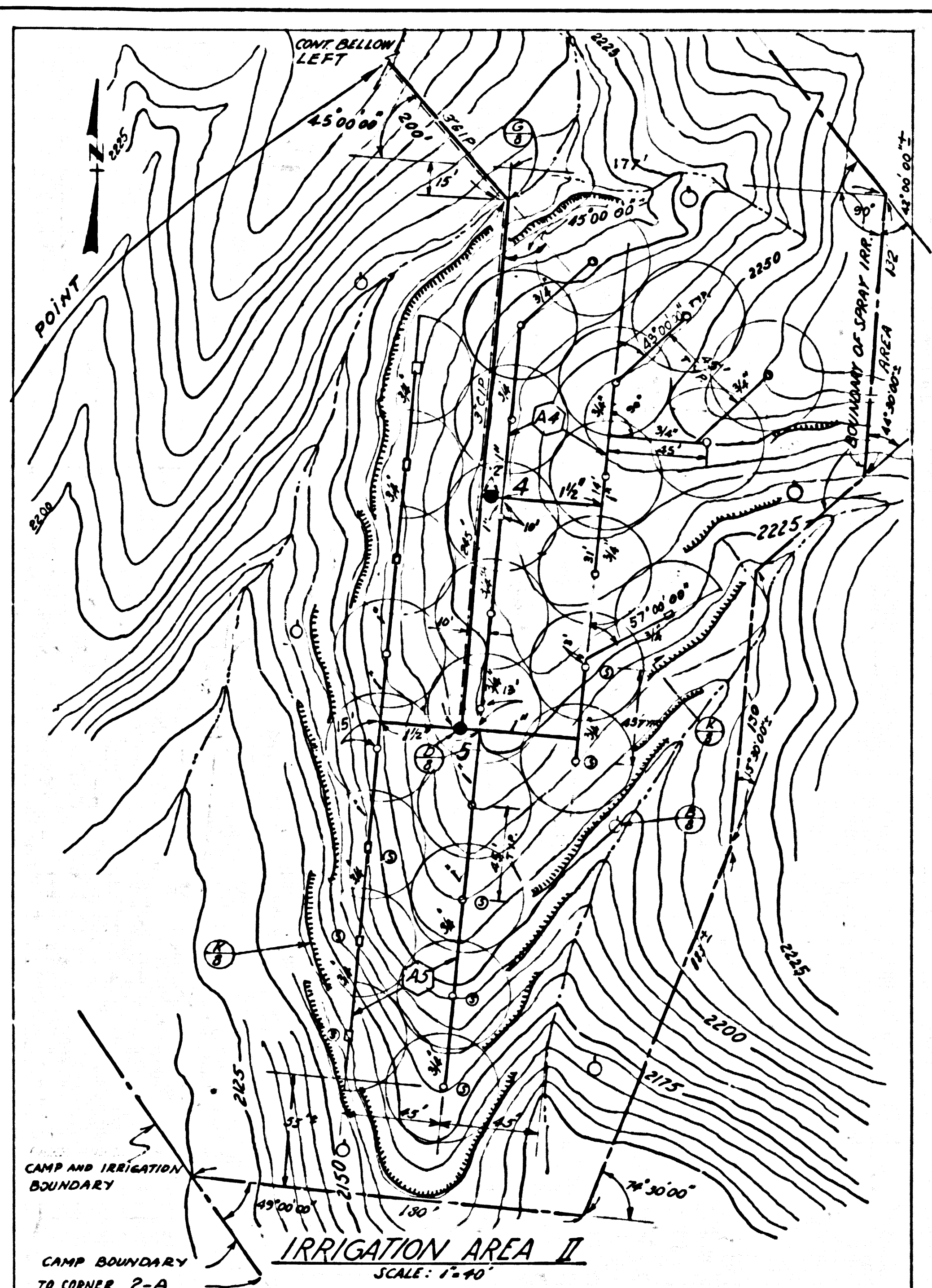
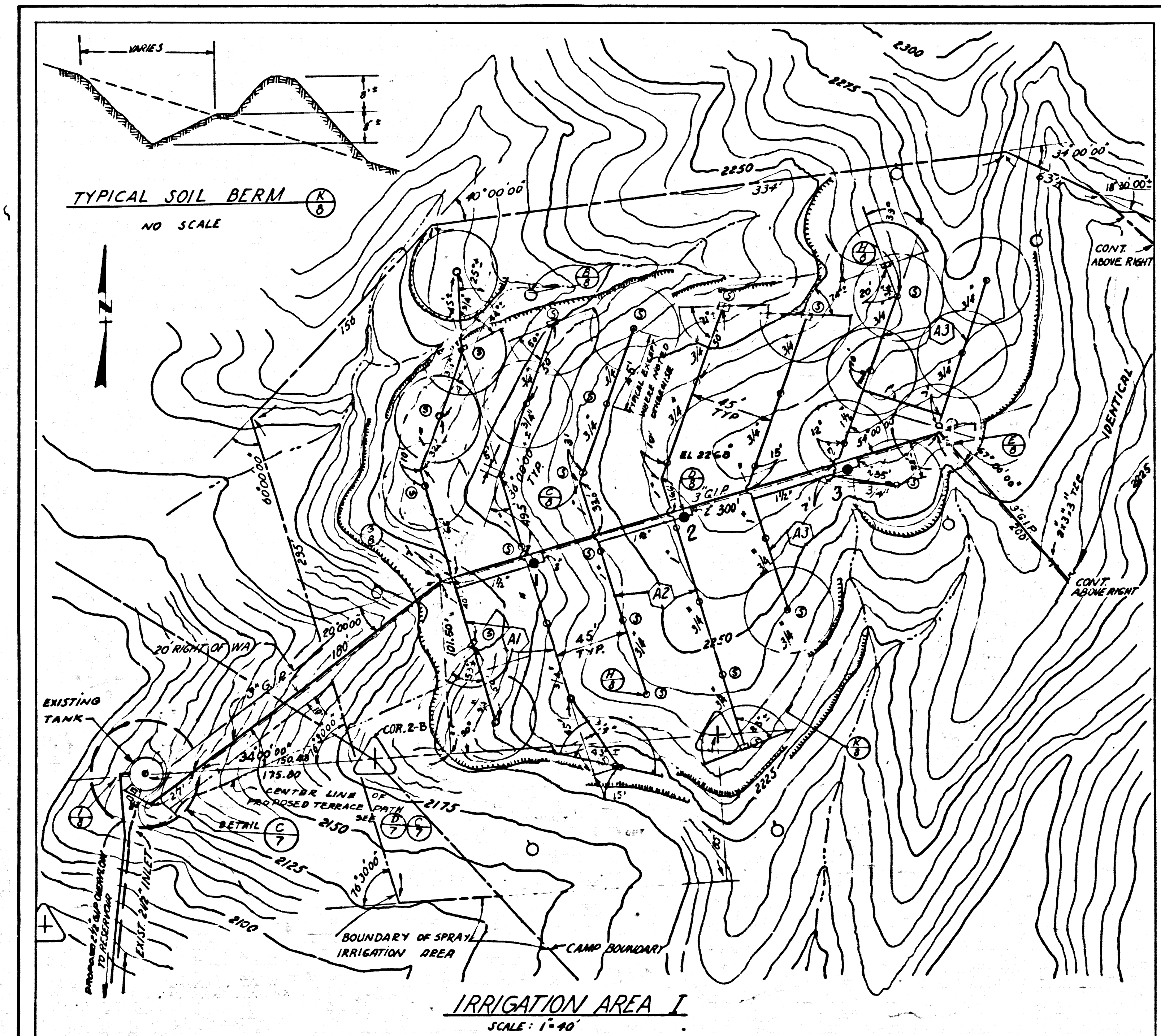


ALTERATIONS OF EXISTING CHLORINE CONTACT CHAMBER
SCALE: AS SHOWN

IRRIGATION BOOSTER PUMPS STATION SITE PLAN
SCALE: 1"=20'-0"

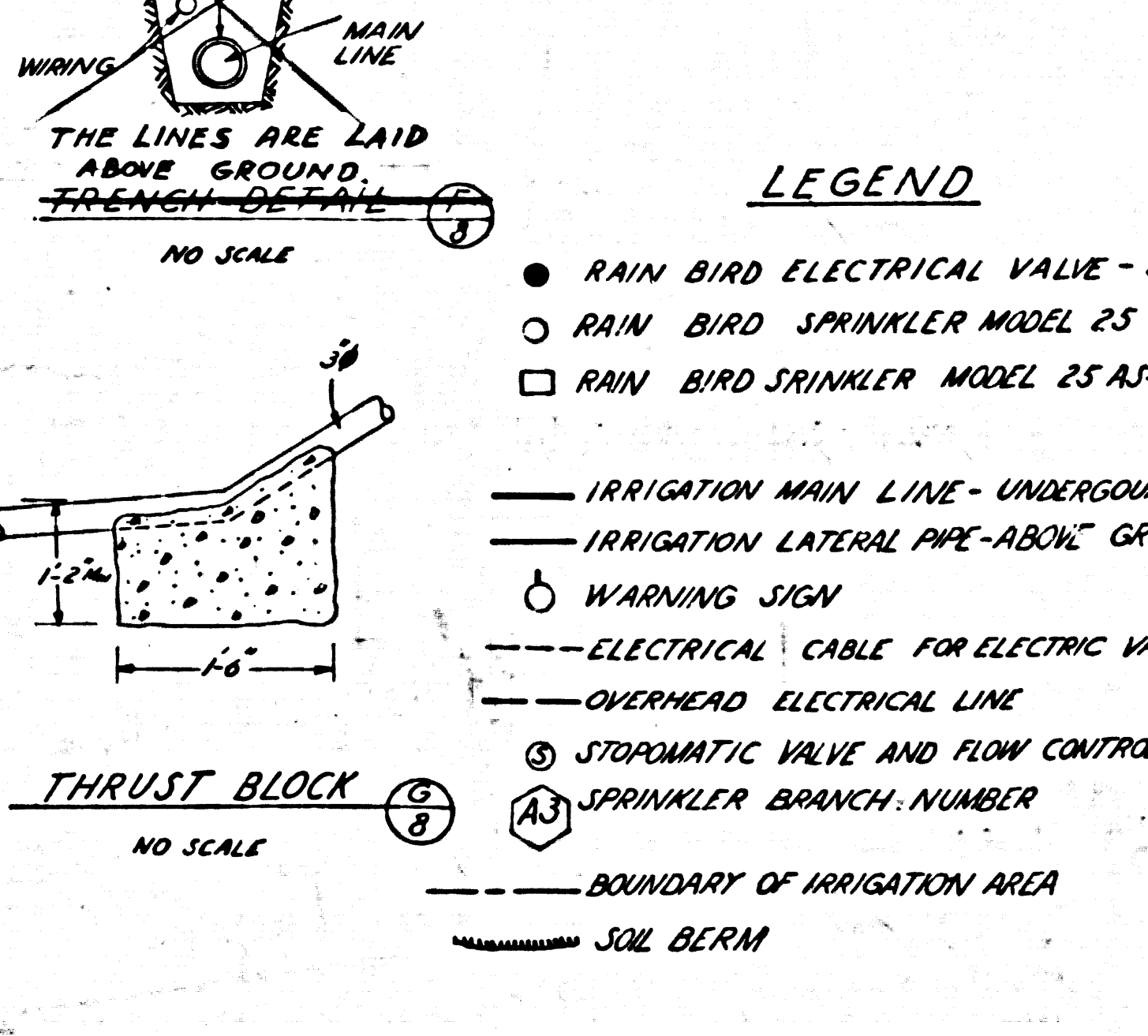


COUNTY OF LOS ANGELES		DEPARTMENT OF COUNTY ENGINEER
SANITATION DIVISION		HARVEY T. BRANDT, COUNTY ENGINEER
		MARCH, 1974
SEWAGE TREATMENT PLANT IMPROVEMENTS WARM SPRINGS CAMP REHABILITATION CENTER METERING SYSTEM AND MISC. DETAILS		
CHECKED: <i>R. E. S. 15728</i>	DRAWN: SHEMANS	DESIGNED: SHEMANS
	SCALE: AS SHOWN	SHEET 7 OF 10 SHEETS



GENERAL NOTES

- 1 ALL WIRES AND PIPES UNDER WALKS AND DRIVES TO BE INSTALLED IN SLEEVING
- 2 ALL PIPES TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.
- 3 ALL LINES TO BE THOROUGHLY FLUSHED BEFORE INSTALLATION OF HEADS.
- 4 ALL SPRINKLERS ON BANKS TO BE INSTALLED PERPENDICULAR TO FACE OF SLOPE
- 5 INSTALL AIR RELIEF VALVES AT HIGH POINTS OF MAIN LINES
- 6 EACH CONTROL VALVE TO BE INSTALLED IN A BROOKS VALVE BOX OR EQUIVALENT
- 7 HEAD OPERATING PRESSURE TO BE 40 PSI.
- 8 POWER WIRE SHALL BE #12 AWG TYPE OF DIRECT BURIAL WIRE
- 9 CONTRACTOR SHALL PROVIDE POWER TO CONTROLLER LOCATIONS SHOWN ON IRRIG. PLAN.
- 10 INSTALL ANCHORS PER DETAIL 1 ON EXPOSED LATERAL PIPING AT ALL RISERS, TEES, ELBOWS AND SIMILAR FITTINGS.
- 11 INSTALL PIPE PROTECTION PER COUNTY ENGINEER'S STD. S-31 ON ALL MAIN LINE PIPING WHEN THE GRADE OF THE PIPE EXCEEDS 30"
- 12 THE EFFLUENT DISPOSAL AREAS SHALL EITHER BE SEEDED WITH ALTA FESCUE OR APPROVED EQUIVALENT. SEEDED AREAS SHALL BE WATERED UNTIL GROWTH IS ESTABLISHED.
- 13 ALL BURIED PIPING FOR THE EFFLUENT DISPOSAL SYSTEM SHALL BE INSTALLED WITH AN IDENTIFICATION TAPE WRAPPED AROUND THE PIPE AT 24" ON CENTER SO AS TO BE DISTINGUISHABLE FROM FRESH WATER PIPING.
- 14 ALL EFFLUENT DISPOSAL SYSTEM VALVES, AND THE EXTERIOR OF ALL VALVES BODIES, SHALL BE CLEARLY IDENTIFIED WITH THE WORDING RECLAIMED WATER, DO NOT DRINK.
- 15 ALL PIPE 2" OR LESS SHALL BE THREADED; 3" PIPE SHALL BE FLANGED OR VICTAULIC COUPLED.
- 16 THRUST AND SUPPORT BLOCKING MUST BE PROVIDED FOR ALL MAIN FEEDER LINE PIPING / VALVES.

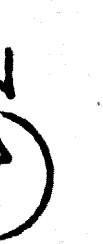
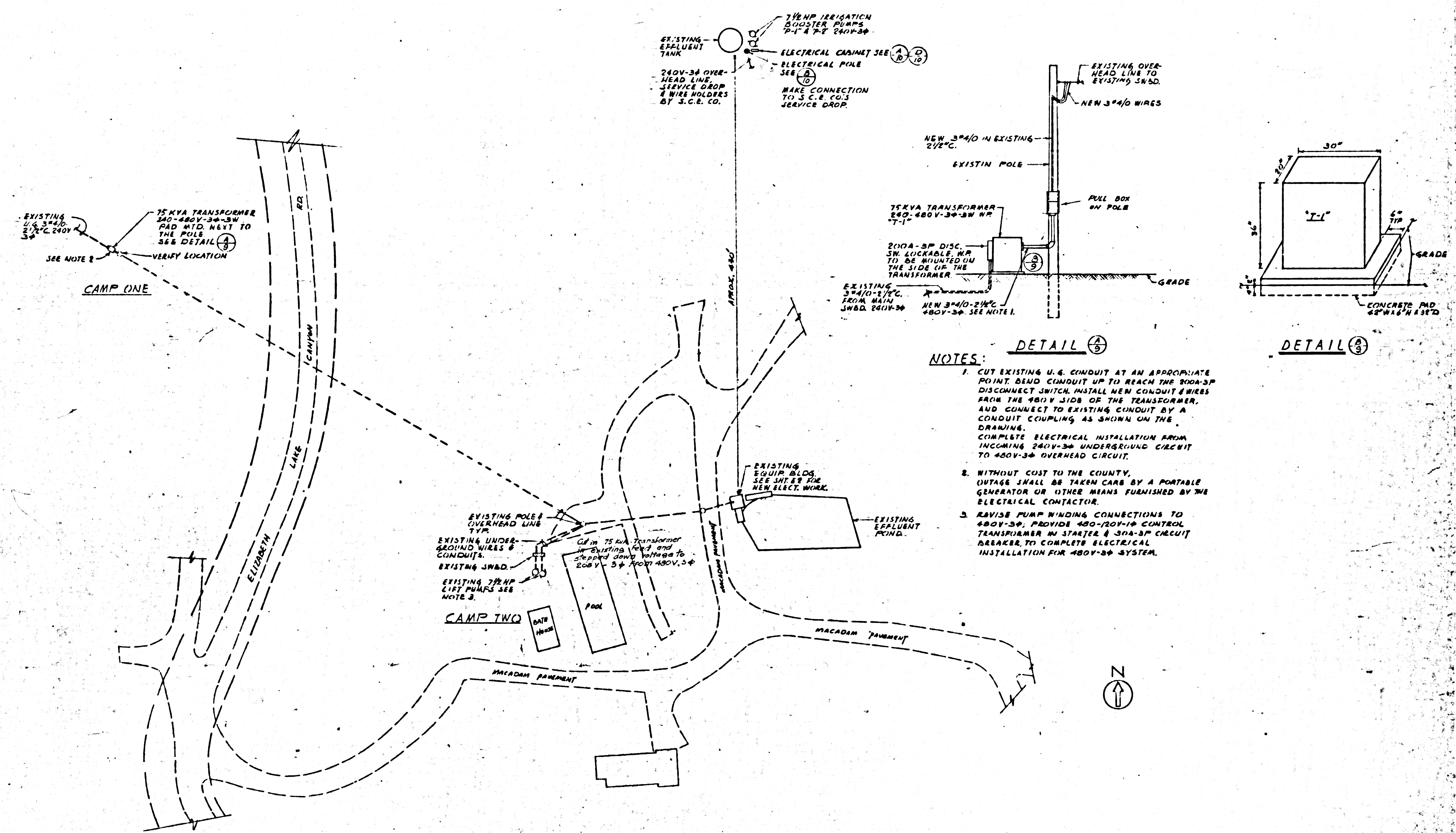


COUNTY OF LOS ANGELES DEPARTMENT OF COUNTY ENGINEER
SANITATION DIVISION
HARVEY E. BRANDT, COUNTY ENGINEER MARCH, 1974

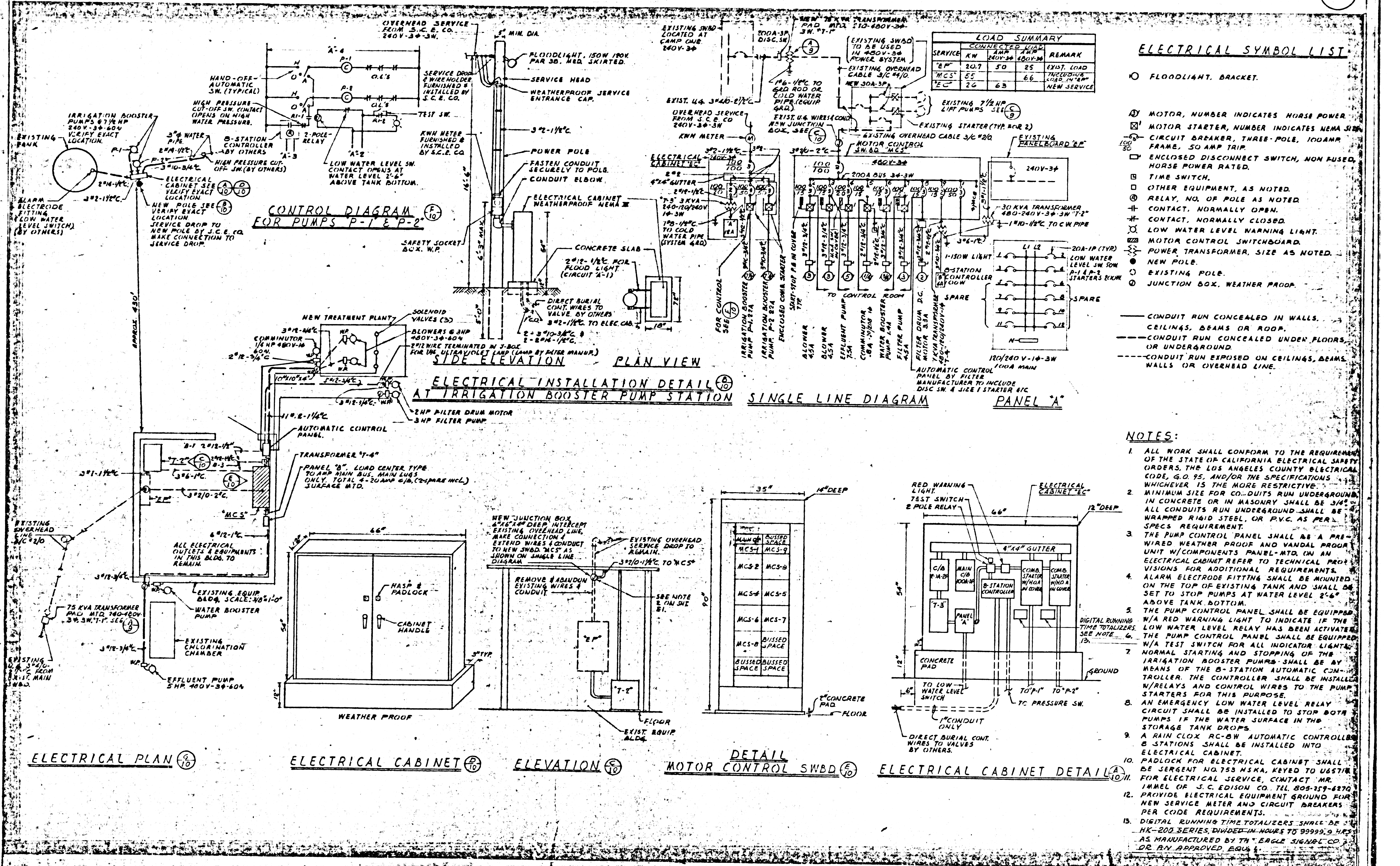
**SEWAGE TREATMENT PLANT IMPROVEMENTS
WARM SPRINGS CAMP REHABILITATION CENTER
IRRIGATION SYSTEM**

CHECKED: *Bilou E. S. ...* DRAWN: OBRADOVICH DESIGNED: OBRADOVICH
021096 6-18-74 SCALE: AS SHOWN SHEET 8 OF 10 SHEETS

45652



COUNTY OF LOS ANGELES		DEPARTMENT OF COUNTY ENGINEER	
SANITATION DIVISION		MARCH, 1976	
HARVEY T. BONDY, COUNTY ENGINEER			
SEWAGE TREATMENT PLANT IMPROVEMENTS WARM SPRINGS CAMP REHABILITATION CENTER			
ELECTRICAL			
CHECKED B. F. Hancock 2-5-76	DRAWN: HUI	DESIGNED: HUI	
SCALE: AS SHOWN		SHEET 9 OF 10 SHEETS	



- ### ELECTRICAL SYMBOL LIST
- FLOODLIGHT, BRACKET.
 - ⊗ MOTOR, NUMBER INDICATES HORSE POWER.
 - ⊗ MOTOR STARTER, NUMBER INDICATES NEMA SIZE.
 - ⊗ CIRCUIT BREAKER, THREE-POLE, 100AMP FRAME, 50 AMP TRIP.
 - ⊗ ENCLOSED DISCONNECT SWITCH, NON FUSED, HORSE POWER RATED.
 - ⊗ TIME SWITCH.
 - ⊗ OTHER EQUIPMENT, AS NOTED.
 - ⊗ RELAY, NO. OF POLE AS NOTED.
 - ⊗ CONTACT, NORMALLY OPEN.
 - ⊗ CONTACT, NORMALLY CLOSED.
 - ⊗ LOW WATER LEVEL WARNING LIGHT.
 - ⊗ MOTOR CONTROL SWITCHBOARD.
 - ⊗ POWER TRANSFORMER, SIZE AS NOTED.
 - ⊗ NEW POLE.
 - ⊗ EXISTING POLE.
 - ⊗ JUNCTION BOX, WEATHER PROOF.

— CONDUIT RUN CONCEALED IN WALLS, CEILING, BEAMS OR ROOF.
 - - - CONDUIT RUN CONCEALED UNDER FLOORS OR UNDERGROUND.
 - - - CONDUIT RUN EXPOSED ON CEILING, BEAMS, WALLS OR OVERHEAD LINE.

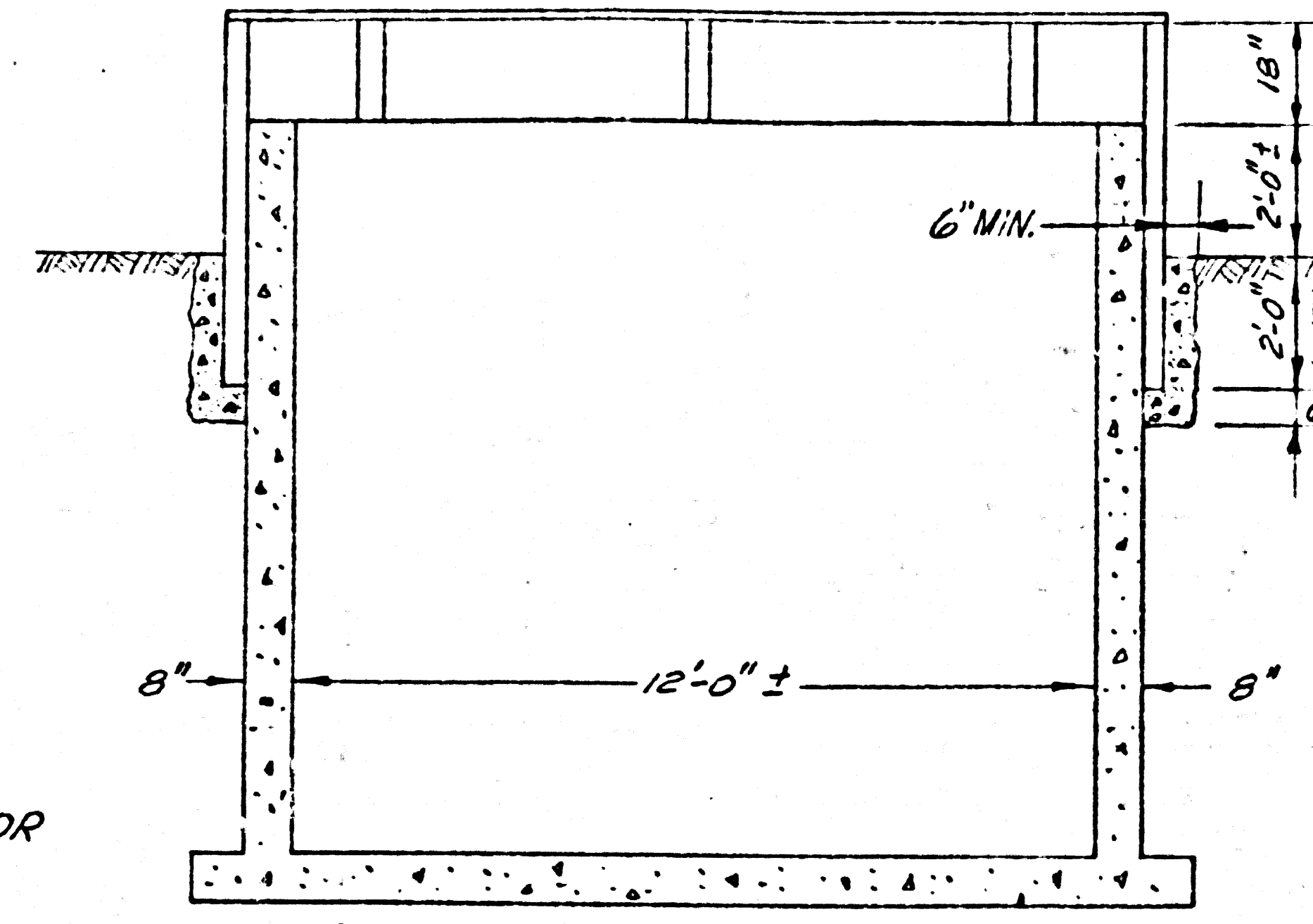
- ### NOTES:
- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE STATE OF CALIFORNIA ELECTRICAL SAFETY ORDERS, THE LOS ANGELES COUNTY ELECTRICAL CODE, G.O. 15, AND/OR THE SPECIFICATIONS, WHICHEVER IS THE MORE RESTRICTIVE.
 - MINIMUM SIZE FOR CO. UITS RUN UNDERGROUND IN CONCRETE OR IN MASONRY SHALL BE 3/4" ALL CONDUITS RUN UNDERGROUND SHALL BE WRAPPED RIGID STEEL, OR P.V.C. AS PER SPEC. REQUIREMENT.
 - THE PUMP CONTROL PANEL SHALL BE A PRE-WIRED WEATHER PROOF AND VANDAL PROOF UNIT W/COMPONENTS PANEL-MTD. ON AN ELECTRICAL CABINET REFER TO TECHNICAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
 - ALARM ELECTRODE FITTING SHALL BE MOUNTED ON THE TOP OF EXISTING TANK AND SHALL BE SET TO STOP PUMPS AT WATER LEVEL 2'-6" ABOVE TANK BOTTOM.
 - THE PUMP CONTROL PANEL SHALL BE EQUIPPED WITH A RED WARNING LIGHT TO INDICATE IF THE LOW WATER LEVEL RELAY HAS BEEN ACTIVATED. THE PUMP CONTROL PANEL SHALL BE EQUIPPED WITH TEST SWITCH FOR ALL INDICATOR LIGHTS.
 - NORMAL STARTING AND STOPPING OF THE IRRIGATION BOOSTER PUMPS SHALL BE BY MEANS OF THE B-STATION AUTOMATIC CONTROLLER. THE CONTROLLER SHALL BE INSTALLED W/RELAYS AND CONTROL WIRES TO THE PUMP STARTERS FOR THIS PURPOSE.
 - AN EMERGENCY LOW WATER LEVEL RELAY CIRCUIT SHALL BE INSTALLED TO STOP BOTH PUMPS IF THE WATER SURFACE IN THE STORAGE TANK DROPS.
 - A RAIN CLOCK RC-SW AUTOMATIC CONTROLLER B-STATIONS SHALL BE INSTALLED INTO ELECTRICAL CABINET.
 - PADLOCK FOR ELECTRICAL CABINET SHALL BE SERVO LOCK 10-755 M.A.P.A. KEYS TO 065716 FOR ELECTRICAL SERVICE CONTACT NO. 10-755-1MMEL OF J.C. EDISON CO. TEL 805-219-4870
 - PROVIDE ELECTRICAL EQUIPMENT GROUND FOR NEW SERVICE METER AND CIRCUIT BREAKERS PER CODE REQUIREMENTS.
 - DIGITAL RUNNING TIME TOTALIZERS SHALL BE MK-200 SERIES DIVIDED-IN-HOURS TO 9999.9 HRS AS MANUFACTURED BY THE EAGLE SIGNAL CO. OR AN APPROVED EQUIV.

ELECTRICAL PLAN (10) ELECTRICAL CABINET (10) ELEVATION (10) DETAIL MOTOR CONTROL SWBD (10) ELECTRICAL CABINET DETAIL (10)

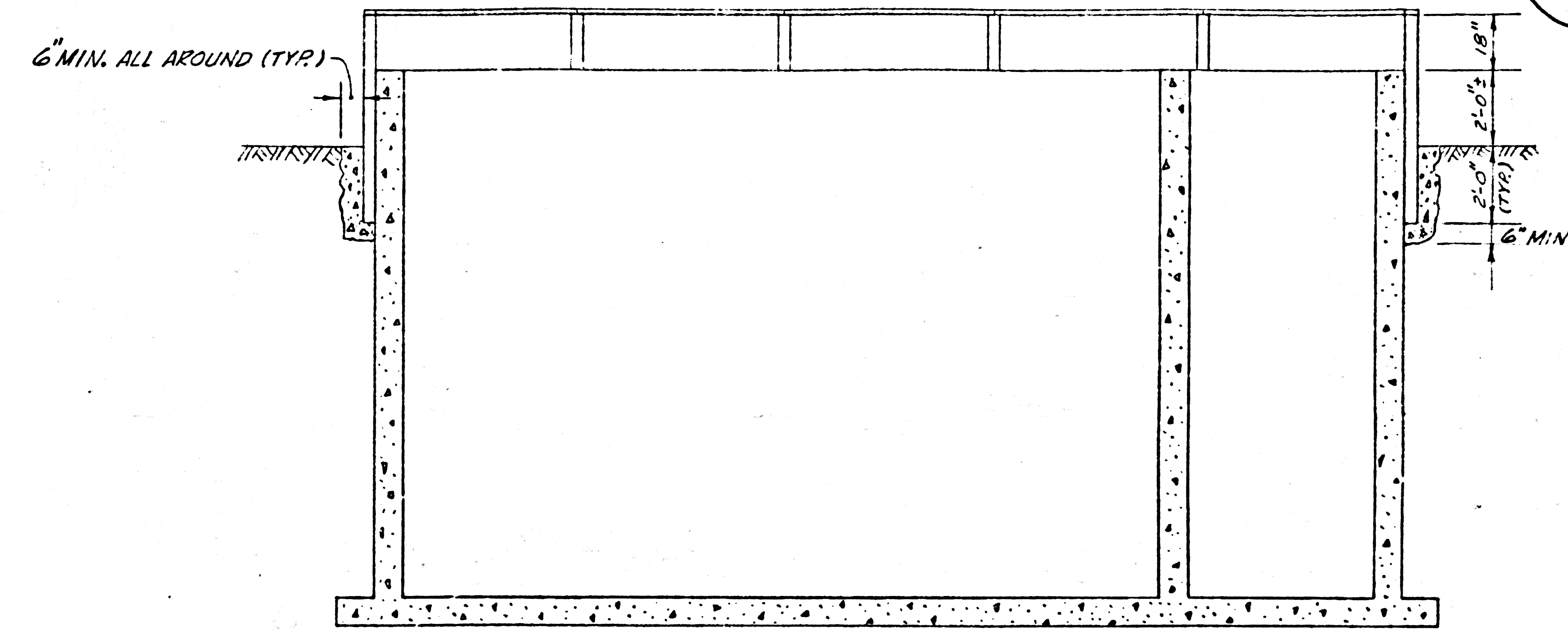
COUNTY OF LOS ANGELES SANITATION DEPARTMENT OF COUNTY ENGINEER
 HARVEY T. BARNETT, COUNTY ENGINEER MARCH 1974
 SEWAGE TREATMENT PLANT IMPROVEMENTS
 WARM SPRINGS CAMP REHABILITATION CENTER
 ELECTRICAL
 CHECKED: R. J. [Signature] DRAWN: HUI DESIGNED: HUI
 SCALE: AS SHOWN SHEET 10 OF 10 SHEETS

LIST OF MATERIALS	
DESCRIPTIONS	QUAN.
4" X 4" X 6' POST (CUT TO SIZE)	24
2" X 4" X 6' RAILING (CUT TO SIZE)	12
2" X 4" X 6' RAILING (CUT TO SIZE)	9
"STRONG-TIE" TYPE L ANGLES, 16 GA. GALV., 2 3/8" X 1 3/8" X 3" WITH 1" LONG SCREWS	44
SCREW EYE BOLTS, SHANK DIA. 3/8", SHANK LENGTH 2 1/2"	4
RIGID EYE BOLT SNAFS	2
STANDARD CONNECTING LINKS, CHAIN SIZE 1/4"	4
HI-TEST CARBON STEEL CHAIN, TRADE SIZE 1/4", 2'-8" ± AND 4'-2" ± LONG	ONE EACH
CONCRETE AND 3" LENGTH NAILS	AS REQ.

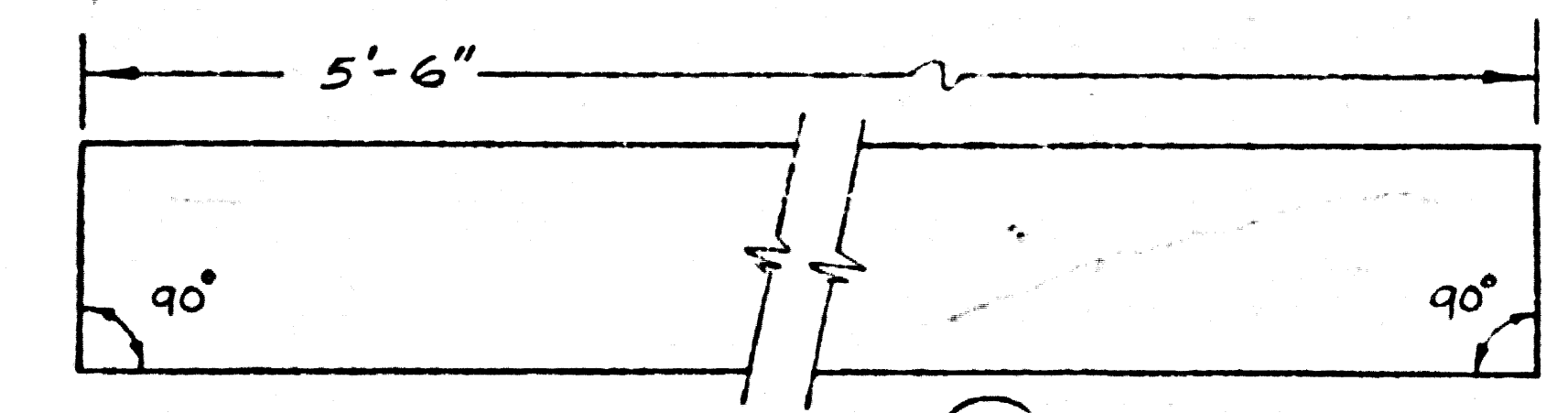
NOTES:
 1. WOOD POSTS SHALL BE FOUNDATION GRADE REDWOOD OR WOLMANIZED DOUGLAS FIR AND RAILS SHALL BE OF CONSTRUCTION GRADE DOUGLAS FIR.
 2. ALL HARDWARE SHALL BE GALVANIZED.



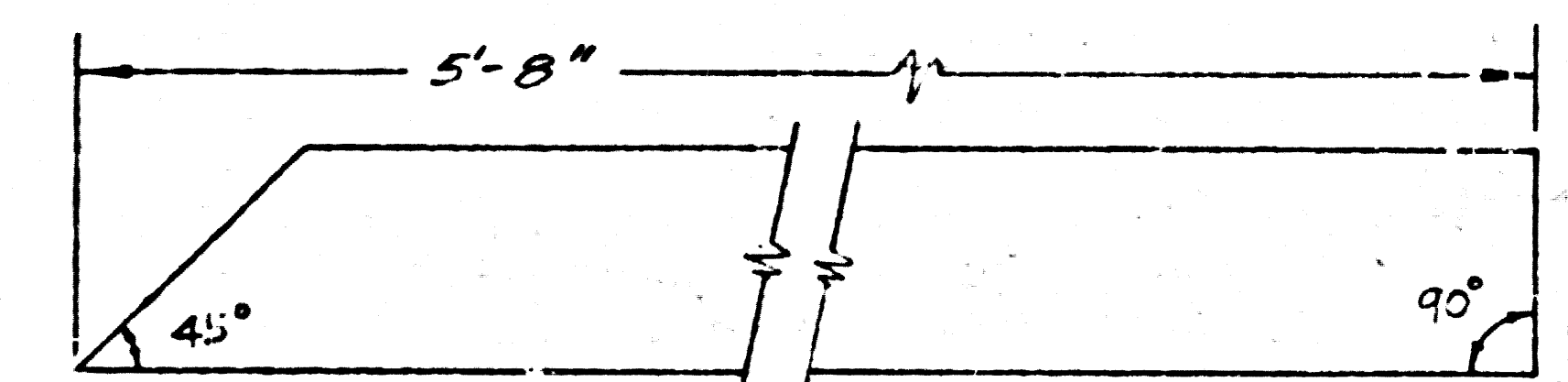
SECTION ELEVATION



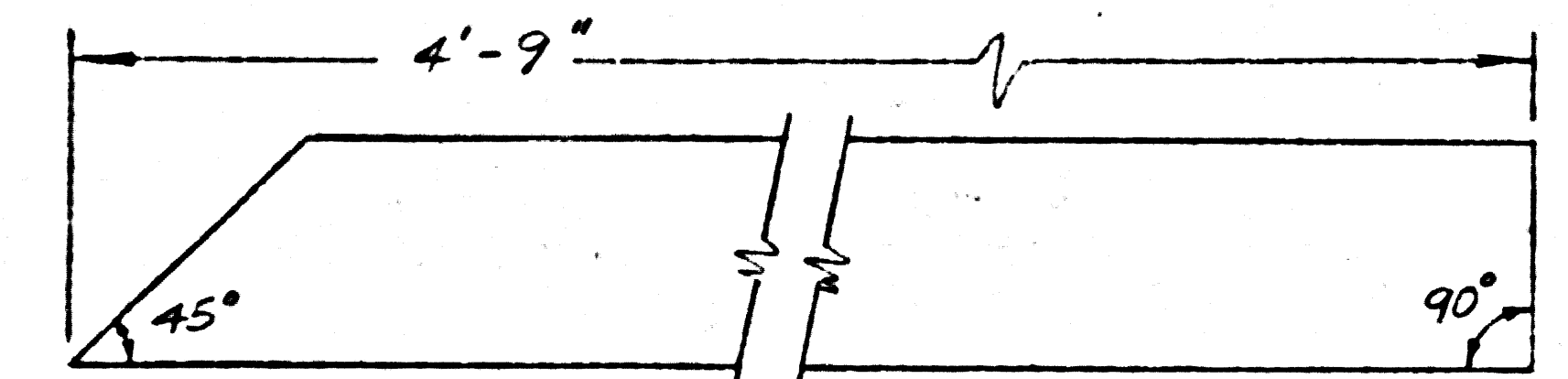
SECTION ELEVATION



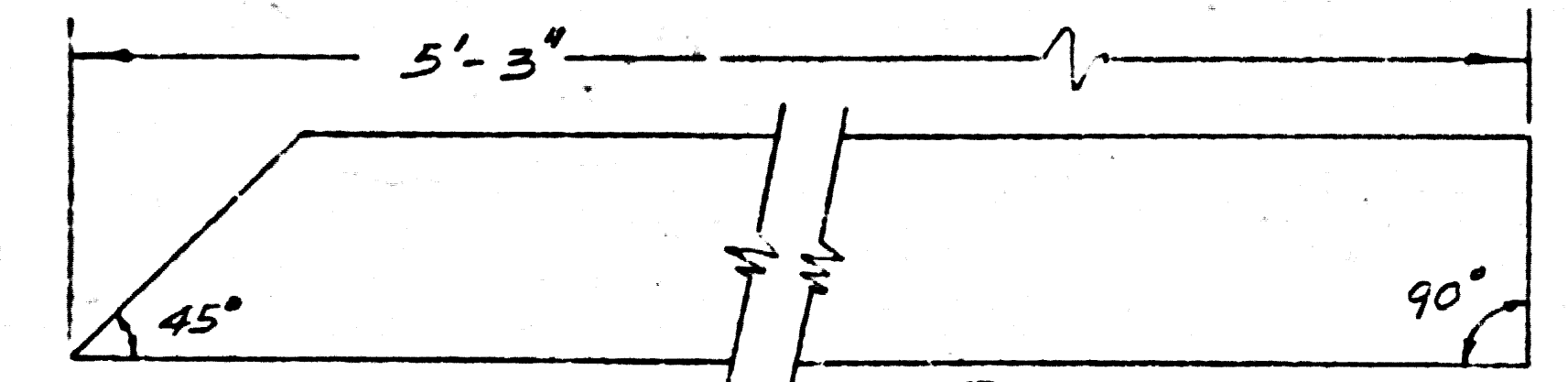
1 6 REQ'D



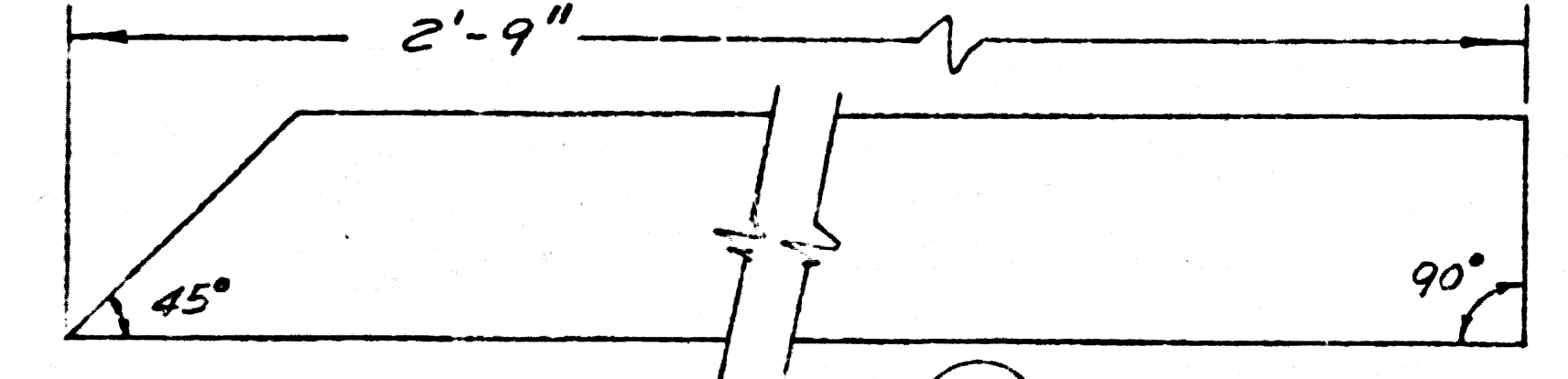
2 4 REQ'D



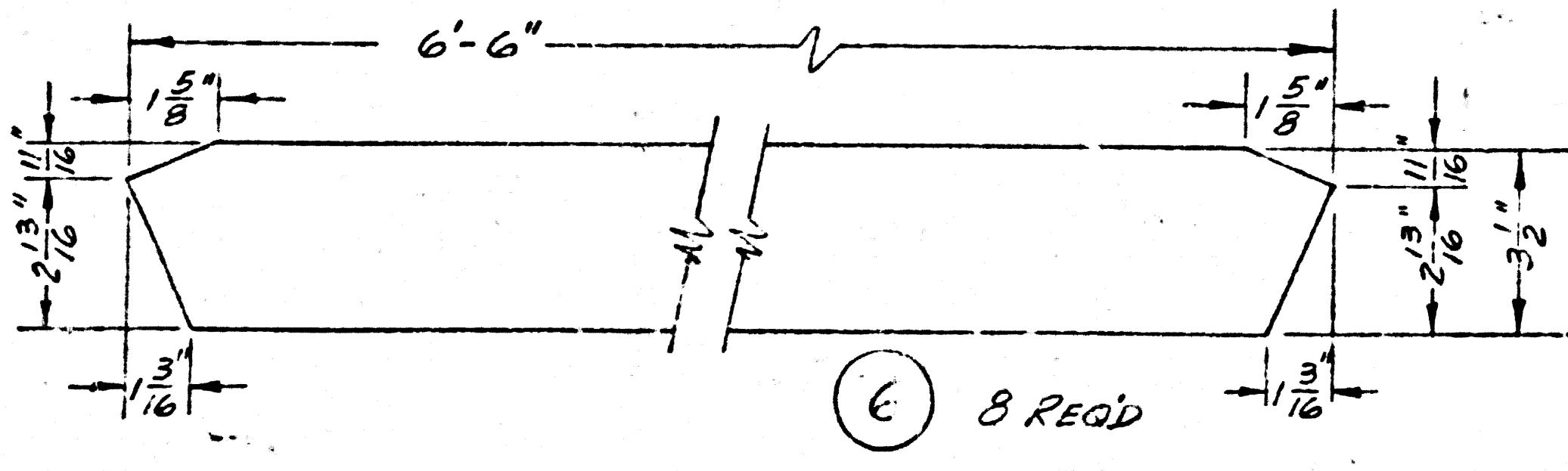
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4 1 REQ'D

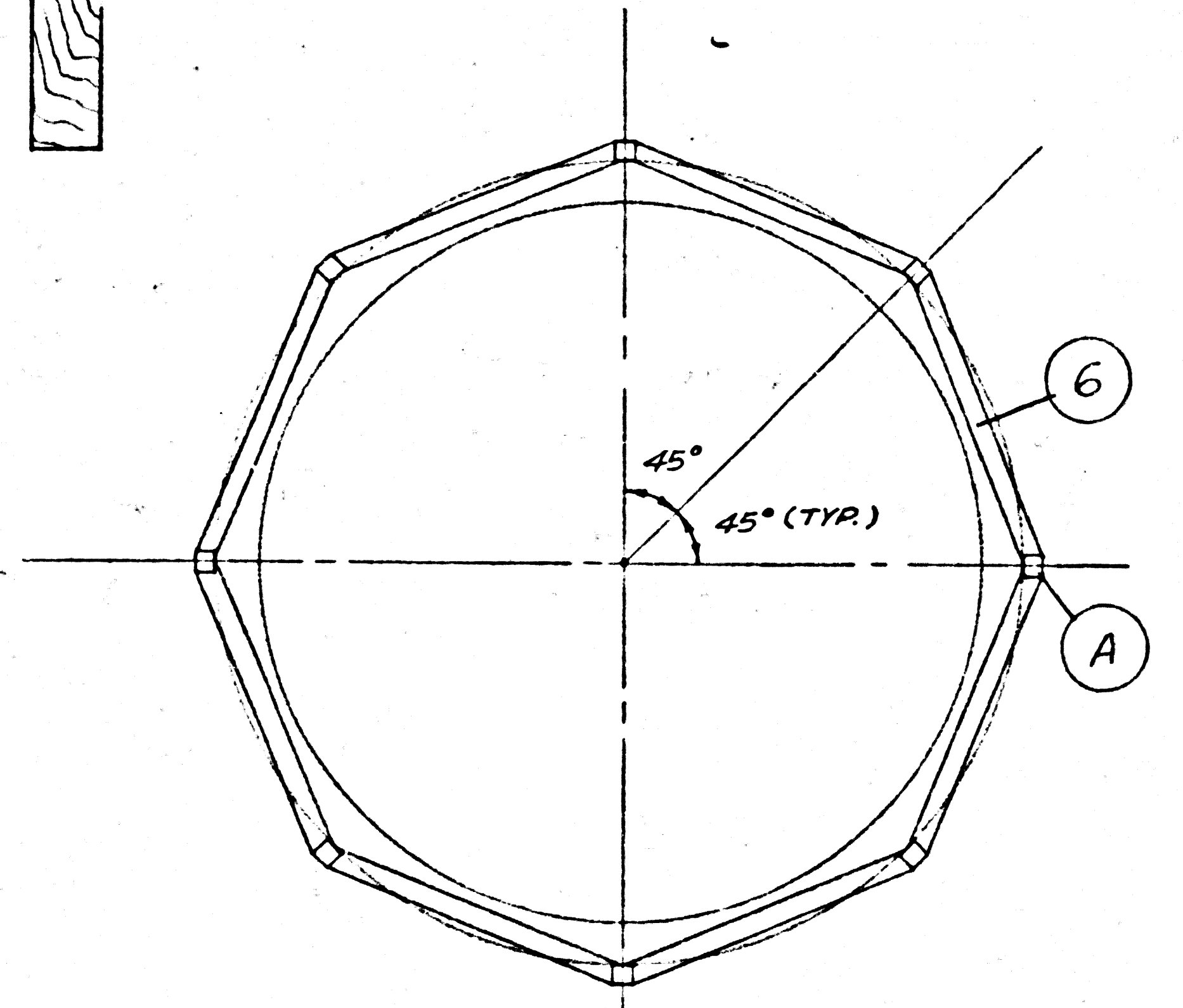


5 1 REQ'D



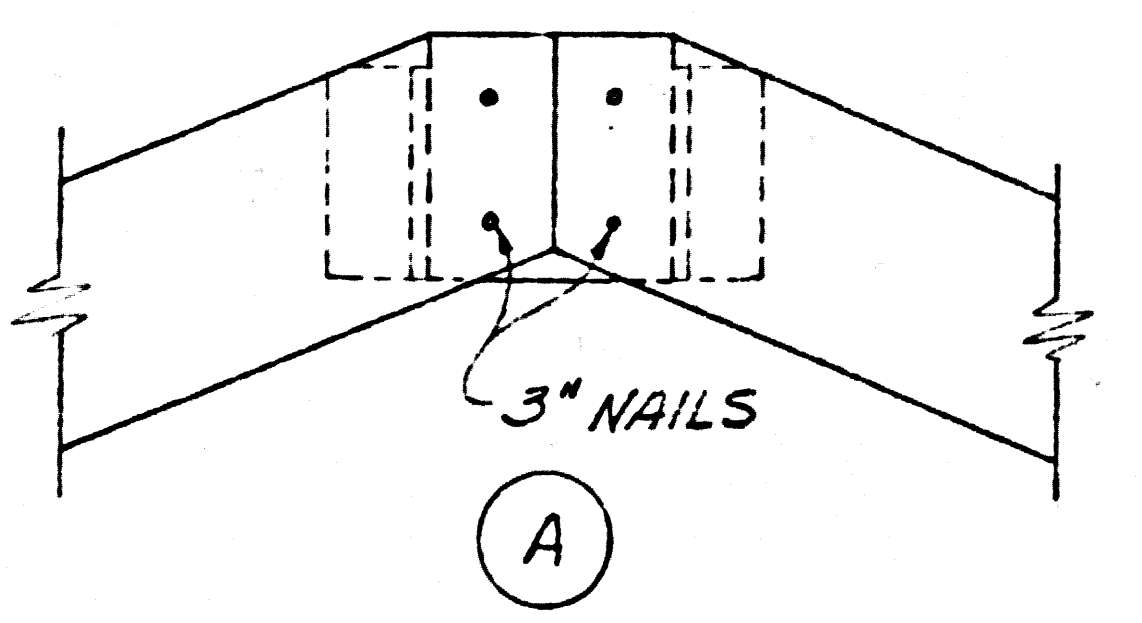
RAILING DETAILS

(TYP.) STANDARD DRESSED SIZE 1 1/2" X 3 1/2"

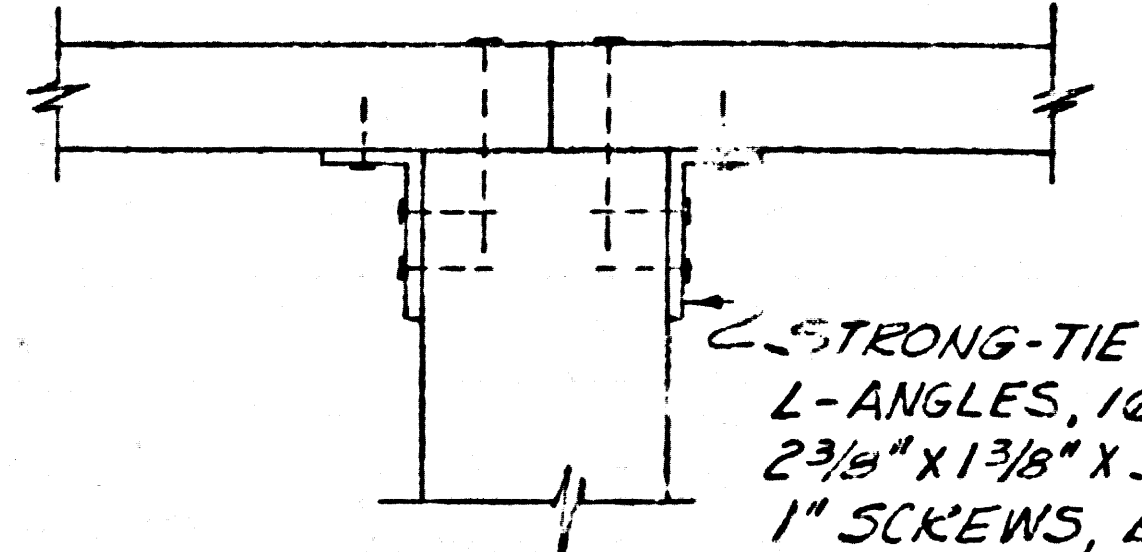


PLAN

SLUDGE HOLDING TANK
(NO SCALE)

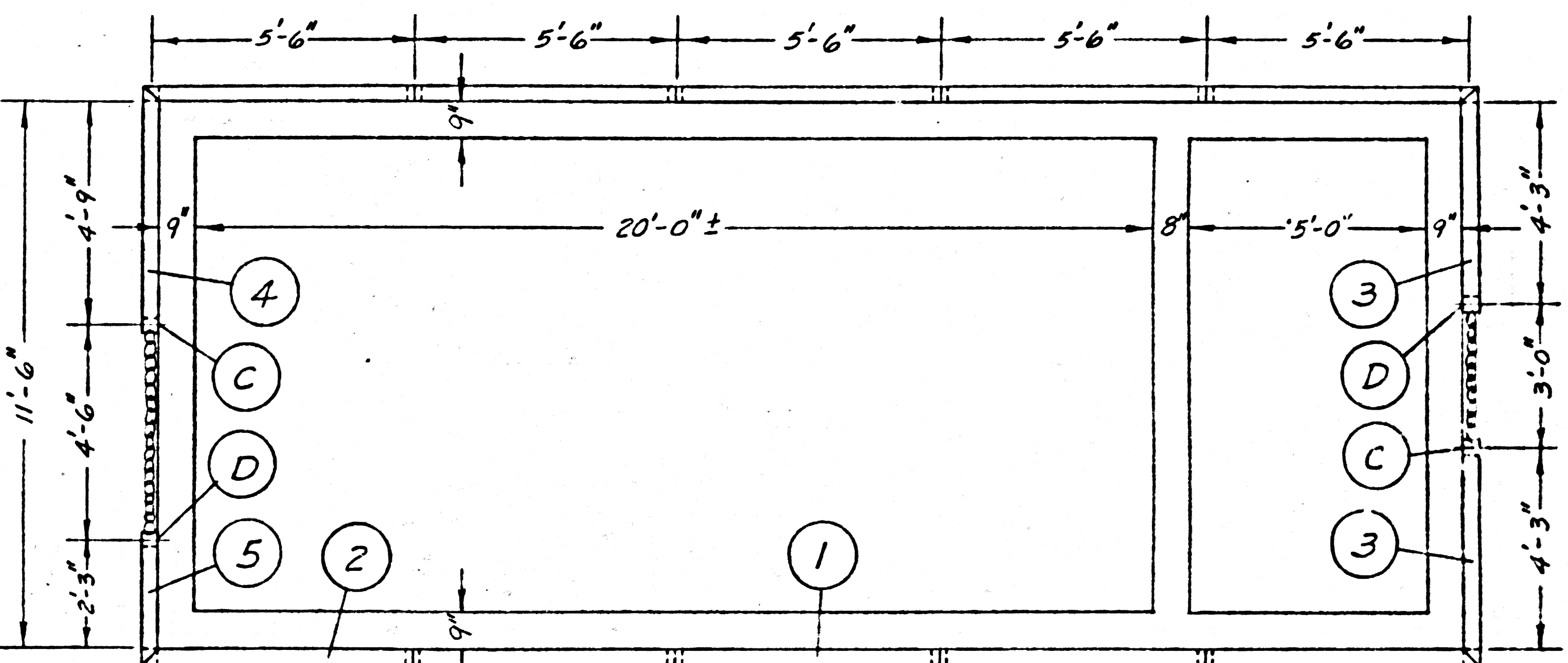


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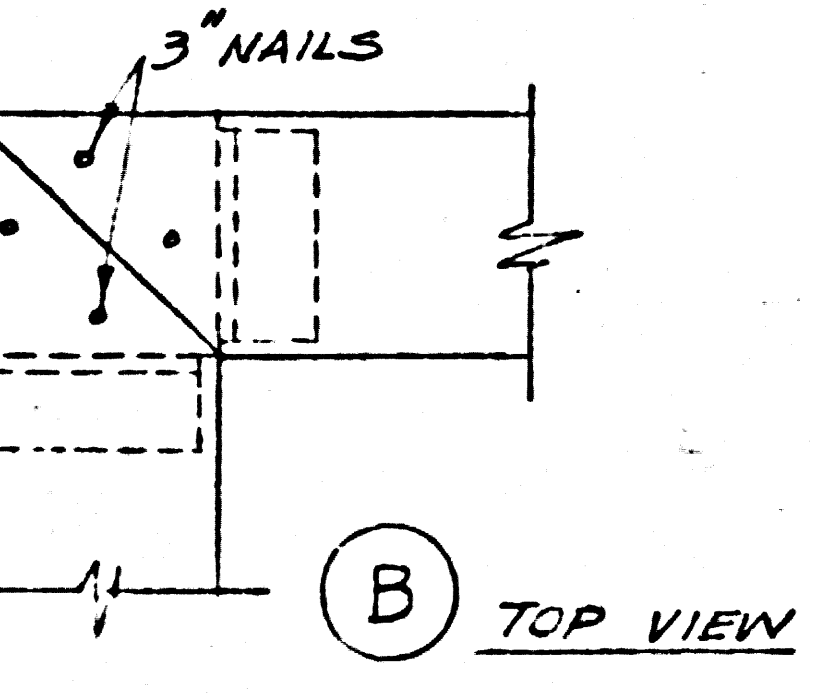
CONNECTION DETAIL (TYP.)

"STRONG-TIE" TYPE L-ANGLES, 16 GA. GALV., 2 3/8" X 1 3/8" X 3", WITH 1" SCREWS, BOTH SIDES. (TYP.)

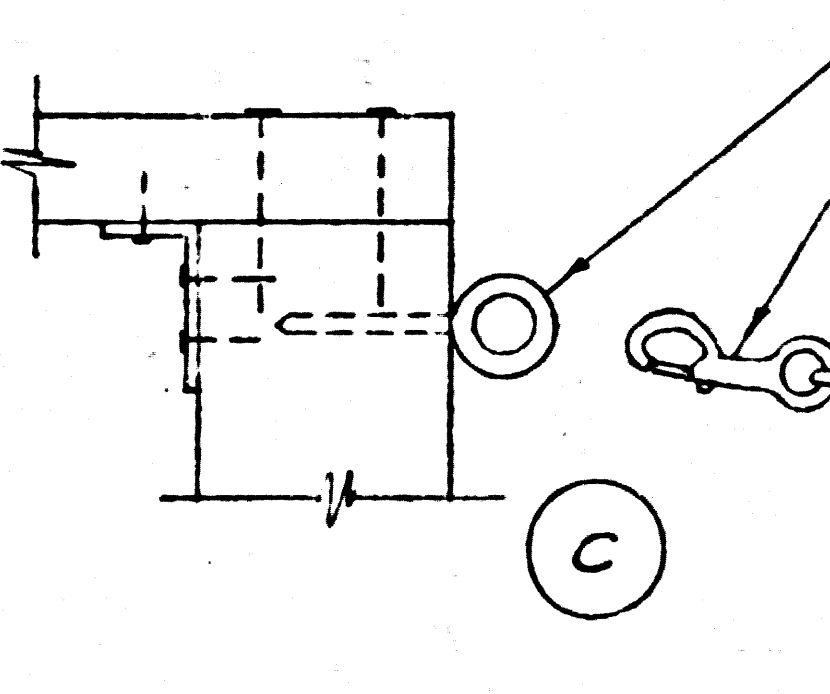


PLAN

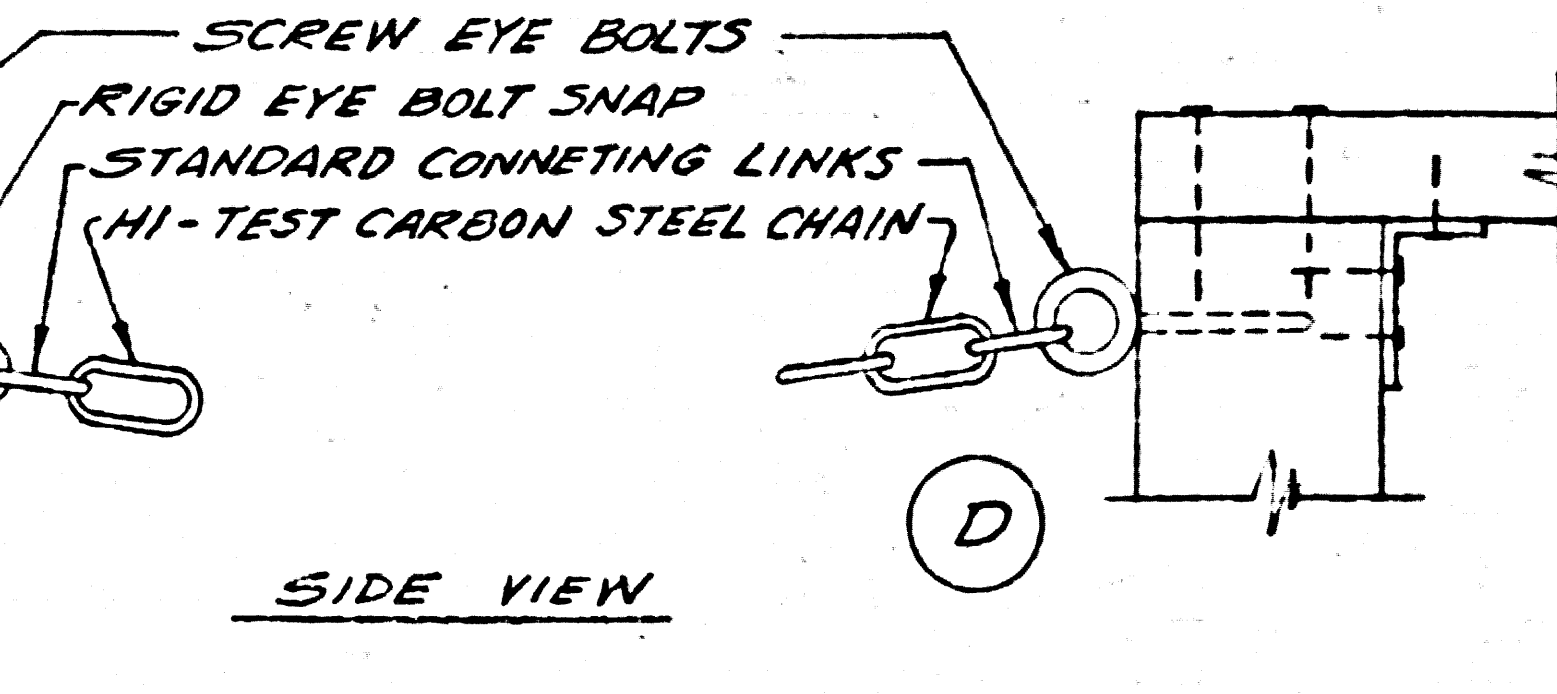
ACTIVATED SLUDGE UNIT
(NO SCALE)



B TOP VIEW



C SIDE VIEW



D SIDE VIEW

COUNTY OF LOS ANGELES		DEPARTMENT OF COUNTY ENGINEER	
HARVEY T. BRANDT, COUNTY ENGINEER		SANITATION DIVISION	
		DEC., 1975	
SEWAGE TREATMENT PLANT IMPROVEMENTS WARM SPRINGS CAMP REHABILITATION CENTER (REVISED) HAND RAIL DESIGN			
DESIGNED BY: D. C. W.	APPROVED BY: <i>[Signature]</i>		
DRAWN BY: D. C. W.	DATE: 1/5/76		
CHECKED BY: S. R. C.			