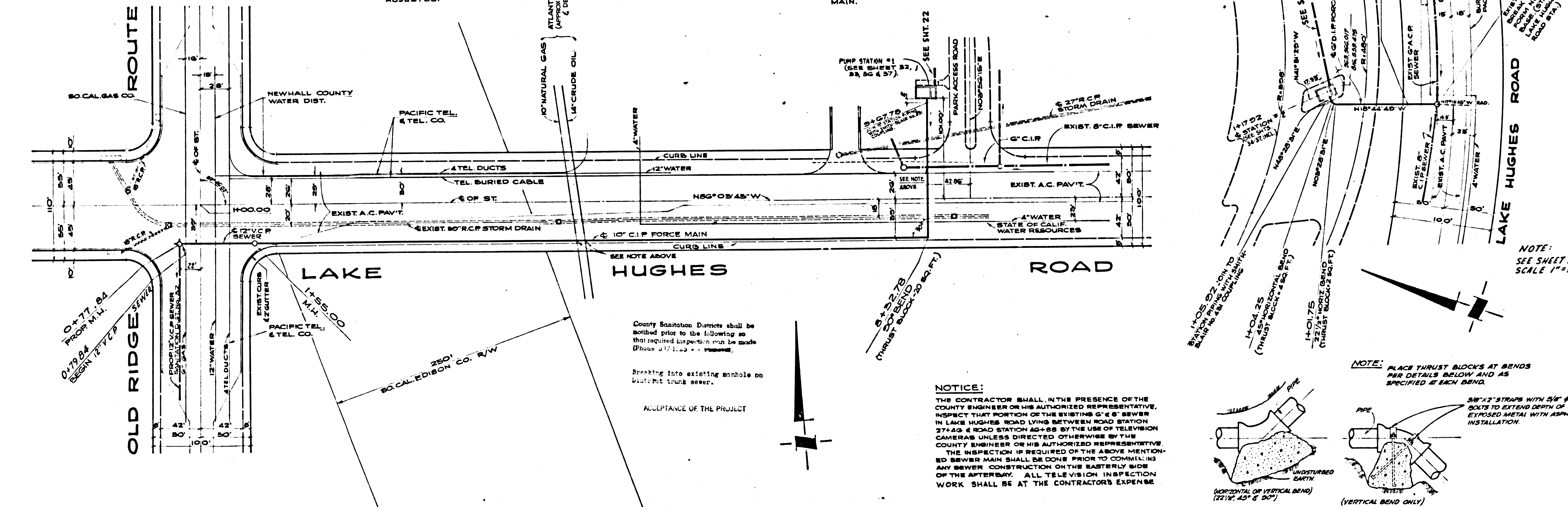


- SEWER CONSTRUCTION NOTES:**
1. MAIN LINE SEWERS SHALL BE CONSTRUCTED ACCORDING TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (1970 EDITION WITH 1971 & 1972 SUPPLEMENTS) AND COUNTY ENGINEER SPECIAL PROVISIONS FOR THE CONSTRUCTION OF SEWERS DATED MARCH 7, 1970 AND SHALL BE INSPECTED ONLY IN THE PRESENCE OF THE COUNTY ENGINEER.
 2. HOUSE LATERAL (COLON) SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE, 1970 EDITION.
 3. HOUSE LATERALS SHALL JOIN BUILDING MAINS AT A POINT 2 FEET FROM BUILDING.
 4. WYE BRANCHES SHALL BE USED FOR CONNECTIONS TO MAINLINE SEWERS EXCEPT AS NOTED.
 5. ALL STRUCTURES SHALL BE EITHER BRICK MANHOLES PER 5-B OR PRECAST CONCRETE MANHOLES PER 5-26 EXCEPT AS NOTED.
 6. MANHOLE TOPS IN UNIMPROVED SURFACES TO BE SIX INCHES ABOVE FINISHED GRADE.
 7. VITRIFIED CLAY PIPE JOINTS SHALL BE TYPE "D" 1" OR "B" PER STANDARD SPECIFICATIONS SECTION 808-2.
 8. IF A POWER POLE IS WITHIN THREE FEET OF THE SEWER THE SEWER SHALL BE ENCASED PER 5-29, CASE 2, TWO FEET ON EACH SIDE FROM THE POINT OF INTERFERENCE.
 9. 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 V.C.P. SEWER WHICH IS NOT INDICATED ON THE PLANS THE PIPE SHALL BE ENCASED PER 5-29, CASE 1 UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER.
 10. ALL JOINTS BETWEEN CAST IRON PIPE AND VITRIFIED CLAY PIPE SHALL BE MADE WITH A RUBBER SLEEVE JOINT TYPE "C" OR "D" (WITH BUSHING IF NECESSARY) PER STANDARD SPECIFICATIONS SECTION 808-2.
 11. SEWERS TO BE TESTED FOR LEAKAGE PER SECTION 808-2 & 7 OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
 12. RESURFACE ALL TRENCHES WITHIN PAVED AREAS TO MEET L.A. COUNTY ROAD DEPT. REQUIREMENTS IN ACCORDANCE WITH PERMITS.
 13. ALL PIPE IS STANDARD DEPTH EXTRA STRENGTH VITRIFIED CLAY PIPE EXCEPT AS NOTED.
 14. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION DIVISION BY TELEPHONE (310) 871-1151 AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
 15. NO REVISIONS SHALL BE MADE IN THESE PLANS WITHOUT THE APPROVAL OF THE COUNTY ENGINEER.
 16. REFER TO SECTION 740.8.1 OF STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.
 17. CONTRACTOR SHALL MAINTAIN SEWER SERVICE AT ALL TIMES DURING CONSTRUCTION OF MAIN LINE SEWER AND HOUSE LATERAL SEWER.
 18. ALL TRENCH PILES AND APPURTENANCES TO BE ABANDONED SHALL BE ABANDONED IN ACCORDANCE WITH SECTION 808.3 OF STANDARD SPECIFICATIONS.
 19. ALL HOUSE LATERALS SHALL BE CONSTRUCTED IN A STRAIGHT ALIGNMENT AT RIGHT ANGLES FROM THE MAINLINE SEWER EXCEPT AS SHOWN ON THE PLANS. HOUSE LATERALS FROM CHIMNEYS SHALL NOT HAVE AN ANGLE OF LESS THAN 45 DEGREES WITH THE MAINLINE SEWER.
 20. ALL CONCRETE CROSS BULKHEADS, CLIMBERS, ALIGNMENT AND DRIVEWAYS SHALL BE TUNNELED OR JACKED PER LOS ANGELES COUNTY ROAD DEPARTMENT REQUIREMENTS.
 21. THE FOLLOWING LATEST REVISED STANDARD PLANS SHALL APPLY IN THE CONSTRUCTION OF THIS PROJECT: 5-1, 5-2 & 5-3; 5-21, 5-22, 5-23, 5-24, 5-26, 5-28, 5-29, 5-30, 5-31, 5-32 & L.A. COUNTY SANITATION DISTRICT STD PLAN 5-B-208.
 22. ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. SEA LEVEL DATUM OF 1929.
 23. APPROVAL OF THIS PLAN BY THE COUNTY OF LOS ANGELES DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THIS PROJECT. THIS NOTE APPLIES TO ALL PAGES.
 24. SEWAGE FLOWS SHALL BE MAINTAINED DURING THE CONSTRUCTION OF NEW SEWERS.
 25. PRIOR TO TRENCH EXCAVATION, THE CONTRACTOR SHALL SUBMIT TO AND OBTAIN APPROVAL FROM THE COUNTY ENGINEER OF A DETAILED PLAN SHOWING THE DESIGN OF SHIELDING, BORING, SHIELDING OR OTHER PROVISIONS FOR WORKER PROTECTION FROM HAZARD OF COLLAPSING GROUND. IF SUCH PLAN VARIES FROM THE SHIELDING SYSTEM STANDARDS ESTABLISHED BY CONSTRUCTION SAFETY DEPT. IT SHALL BE PREPARED BY A REGISTERED CIVIL OR STRUCTURAL ENGINEER.
 26. APPROVAL OF THIS PLAN BY THE COUNTY OF LOS ANGELES DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OF OR EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. (FOR CONTINUATION OF NOTES, SEE SHEET B.)

NOTE: CONTRACTOR SHALL EXPOSE 10" GAS LINE & 14" OIL LINE IN ORDER THAT ELEVATION MAY BE VERIFIED PRIOR TO CONSTRUCTION OF 10" FORCE MAIN. IF NECESSARY, GRADES WILL BE ADJUSTED.

NOTE: CONTRACTOR SHALL EXPOSE EXISTING 8" C.I.P. AND VERIFY THAT 10" C.I.P. FORCE MAIN WILL CLEAR PRIOR TO CONSTRUCTION OF FORCE MAIN.



CASH CONTRACT No. 8730

APPROVAL FOR SEWERS

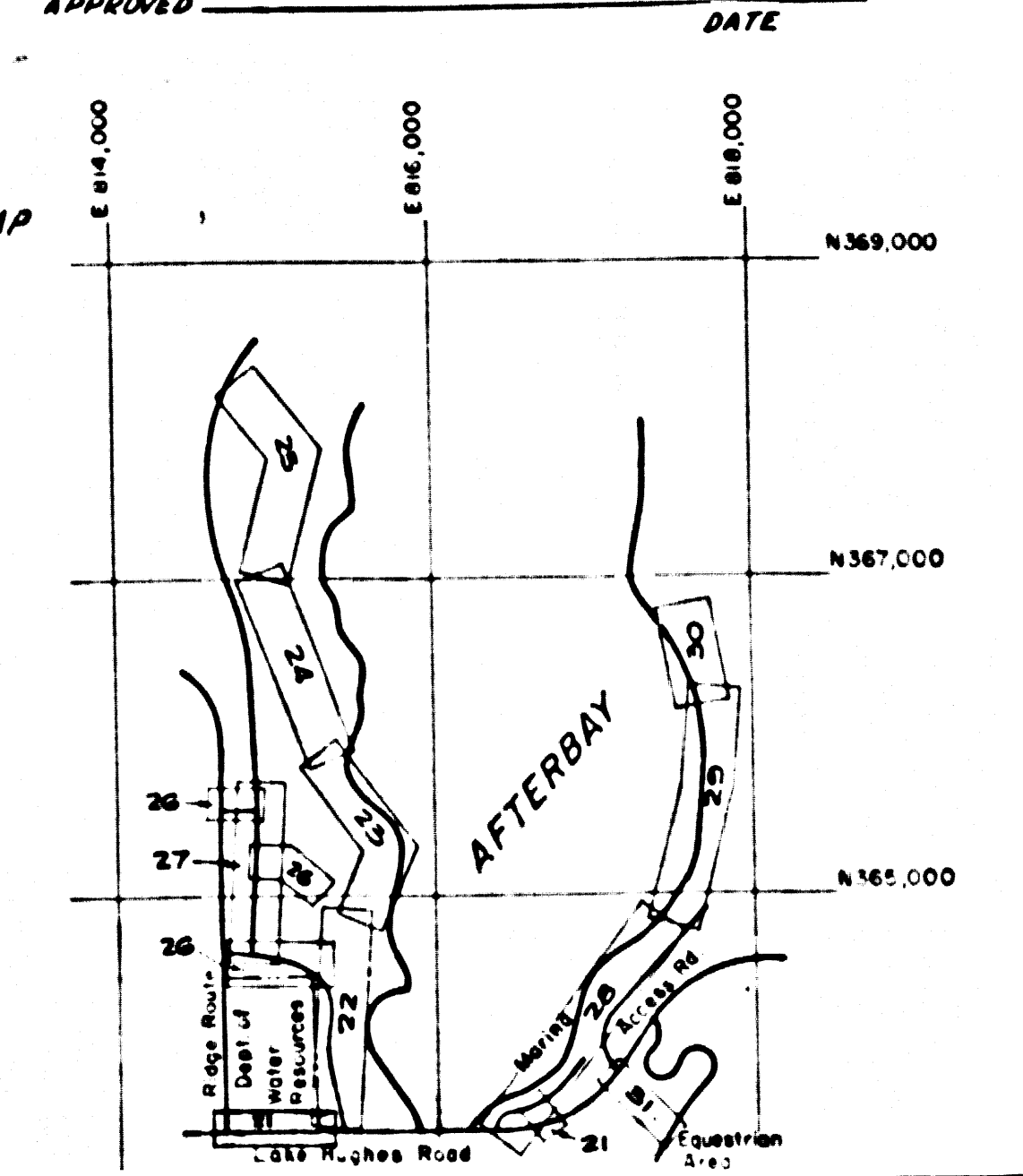
LOS ANGELES COUNTY ENGINEER
HARVEY T. BRANDT
COUNTY ENGINEER

LOS ANGELES COUNTY SANITATION DISTRICTS
JOHN D. PARKHURST
CHIEF ENGINEER
10 SAN 871 38 33

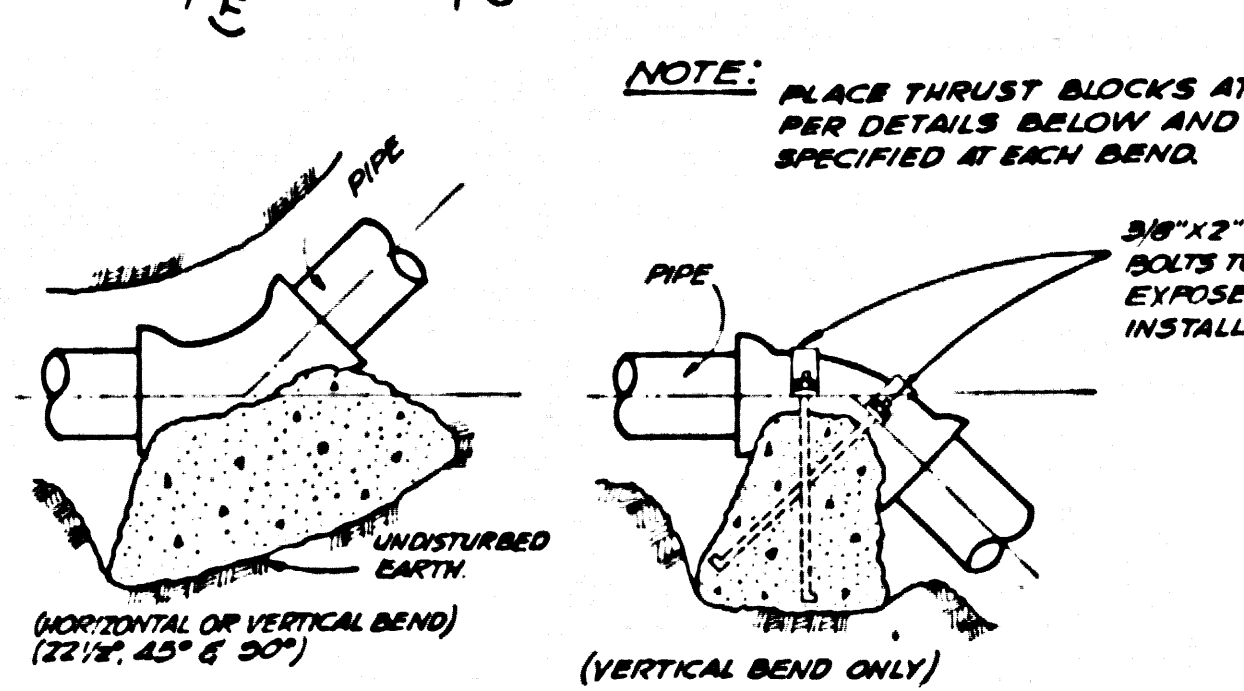
APPROVED: _____ DATE: _____
CHECKED: _____ DATE: 3/5/73
REG. NO. 2143

CALIFORNIA STATE DEPARTMENT OF PUBLIC HEALTH
APPROVED: _____ DATE: _____

LOS ANGELES COUNTY HEALTH SERVICES DEPARTMENT
APPROVED: _____ DATE: _____



NOTE: SEE SHEET 31 FOR INDEX MAP SCALE 1"=500'



NOTICE:
THE CONTRACTOR SHALL, IN THE PRESENCE OF THE COUNTY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE, INSPECT THAT PORTION OF THE EXISTING 8" & 8" SEWER IN LAKE HUGHES ROAD LYING BETWEEN ROAD STATION 27+40 & ROAD STATION 28+85 BY THE USE OF TELEVISION CAMERAS UNLESS DIRECTED OTHERWISE BY THE COUNTY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE. THE INSPECTION IS REQUIRED OF THE ABOVE MENTIONED SEWER MAIN SHALL BE DONE PRIOR TO COMMENCING ANY SEWER CONSTRUCTION ON THE EASTERLY SIDE OF THE AFTERBAY. ALL TELEVISION INSPECTION WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.

County Sanitation Districts shall be bonded prior to the following so that required inspection can be made (Phone 217, 2142 - 2144).

Breaking into existing manhole on District truck sewer.

ACCEPTANCE OF THE PROJECT

REVISIONS			
No.	Date	Description	Appr.

SEWER PLAN
GENERAL DEVELOPMENT, AFTERBAY
CASTAIC LAKE
STATE AND COUNTY REGIONAL PARK

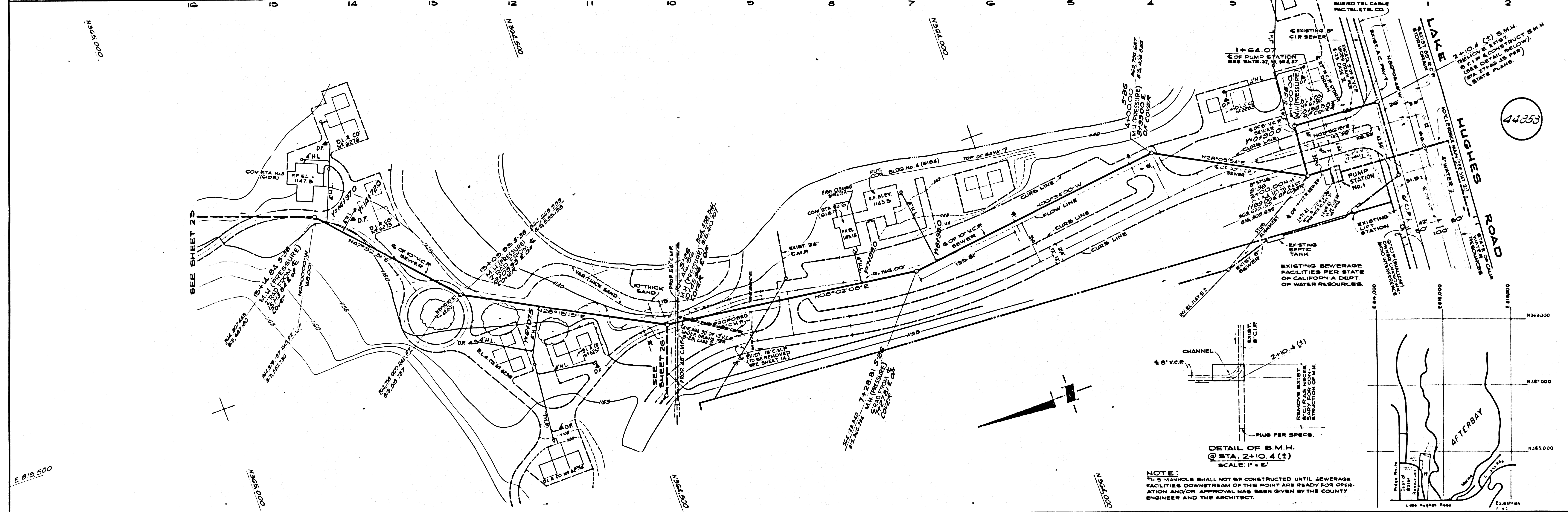
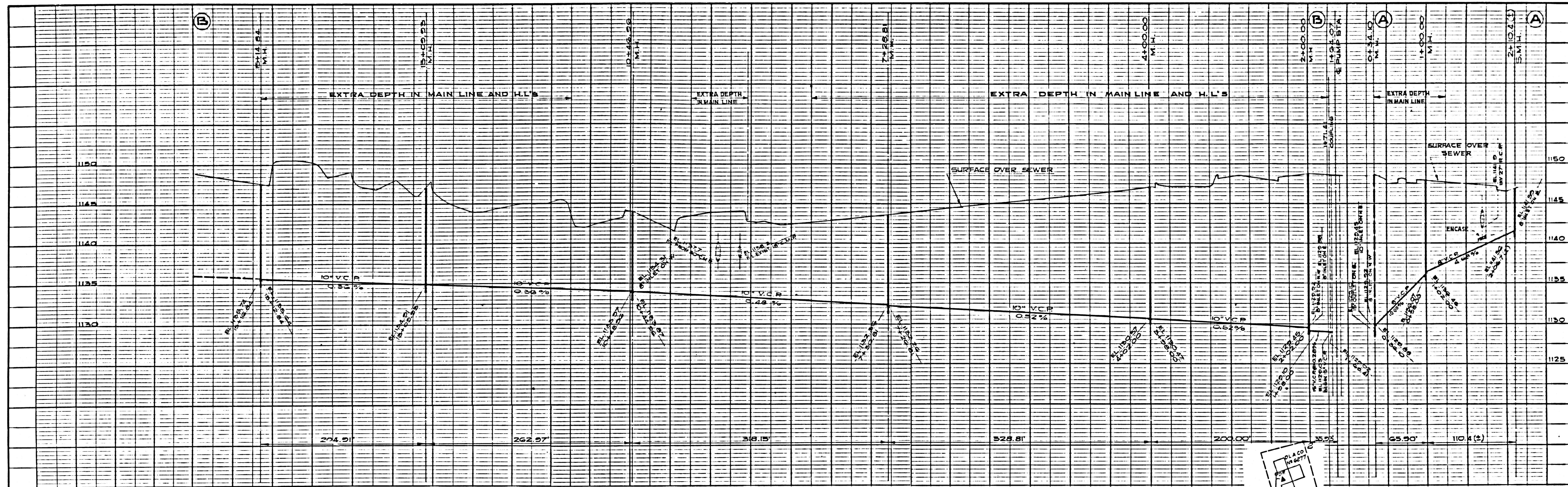
APPROVALS

L.A. County Dept. of Parks and Recreation Date: _____

McINTIRE QUIROS

PLANNING & ENGINEERING
670 MONTEREY PASS ROAD
MONTEREY PARK, CALIF.
213-283-1661

SPEC. NO. 3183
CAP PROJ. NO. 9940-02
JOB NO. 5400
DATE _____
SCALE: HORIZ. 1"=50', VERT. 1"=5'
SHT 21 OF 37 SHTS.



NOTE:
THIS MANHOLE SHALL NOT BE CONSTRUCTED UNTIL SEWERAGE FACILITIES DOWNSTREAM OF THIS POINT ARE READY FOR OPERATION AND/OR APPROVAL HAS BEEN GIVEN BY THE COUNTY ENGINEER AND THE ARCHITECT.

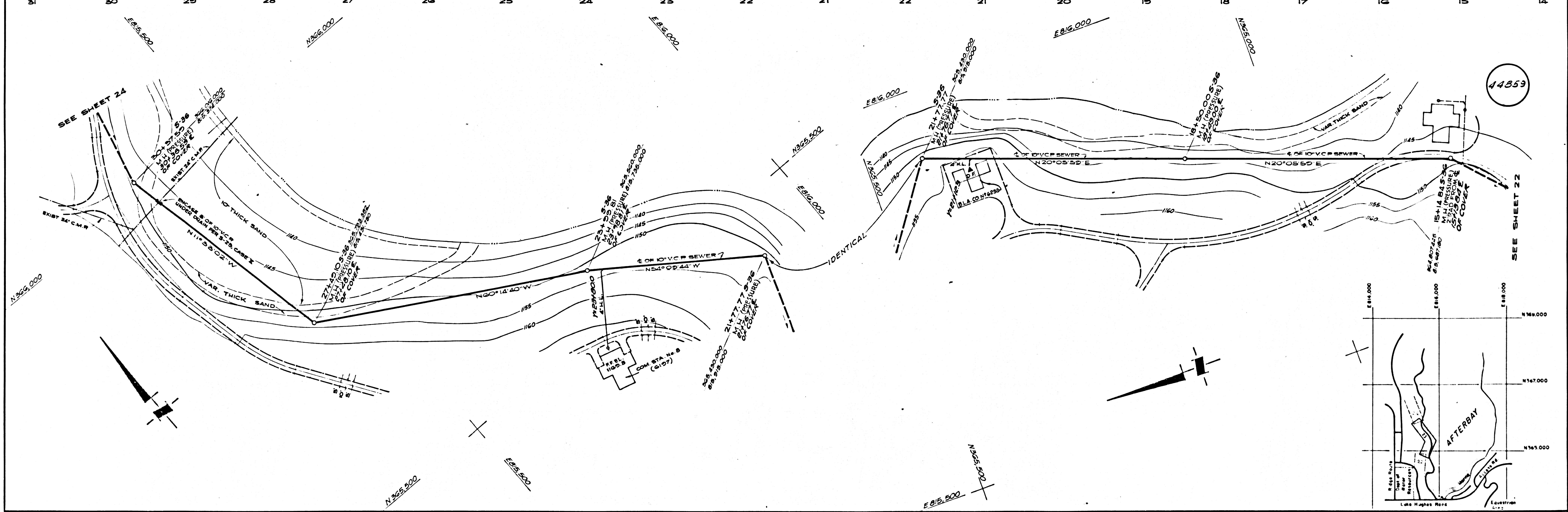
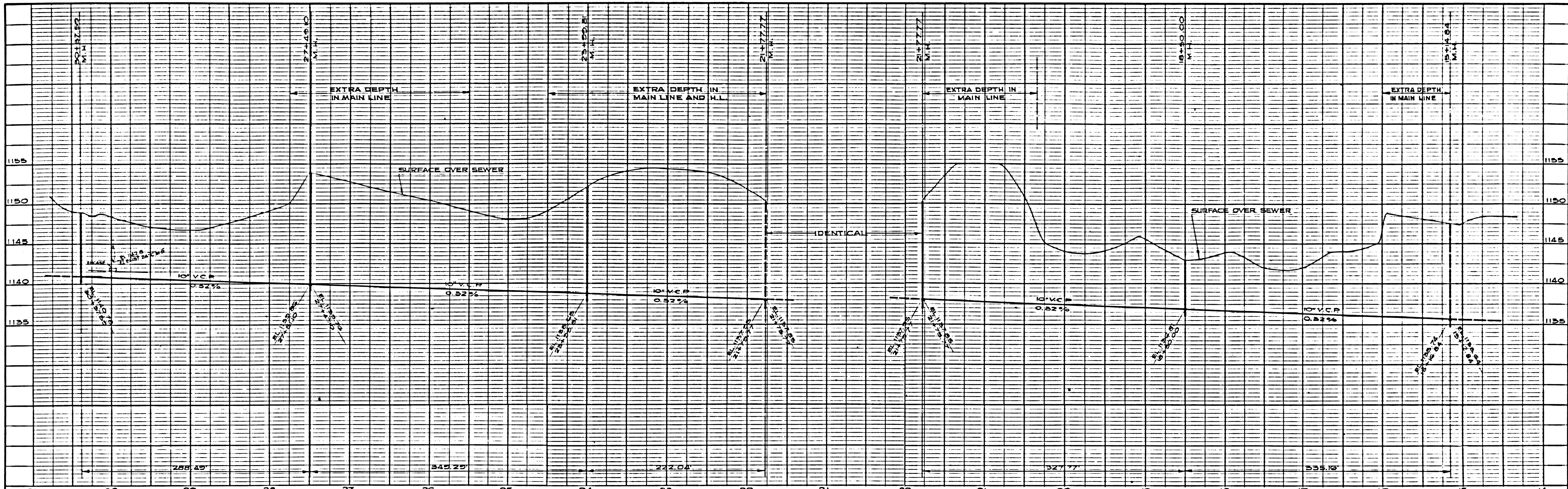
REVISIONS		
No.	Date	Description

SEWER PLAN
GENERAL DEVELOPMENT, AFTERBAY
CASTAIC LAKE
STATE AND COUNTY REGIONAL PARK

APPROVALS
L.A. County Dept. of Parks and Recreation Date: _____

MC INTIRE QUIROS
PLANNING & ENGINEERING
670 MONTEREY PASS ROAD
MONTEREY PARK, CALIF.
213-283-7661

SHEET NO. **3183**
CAP PROJ NO. **9940-02**
JOB NO. **5400**
DATE _____
SCALE: HORIZ. 1"=50', VERT. 1"=5'
SHT. 22 OF 37 SHTS.



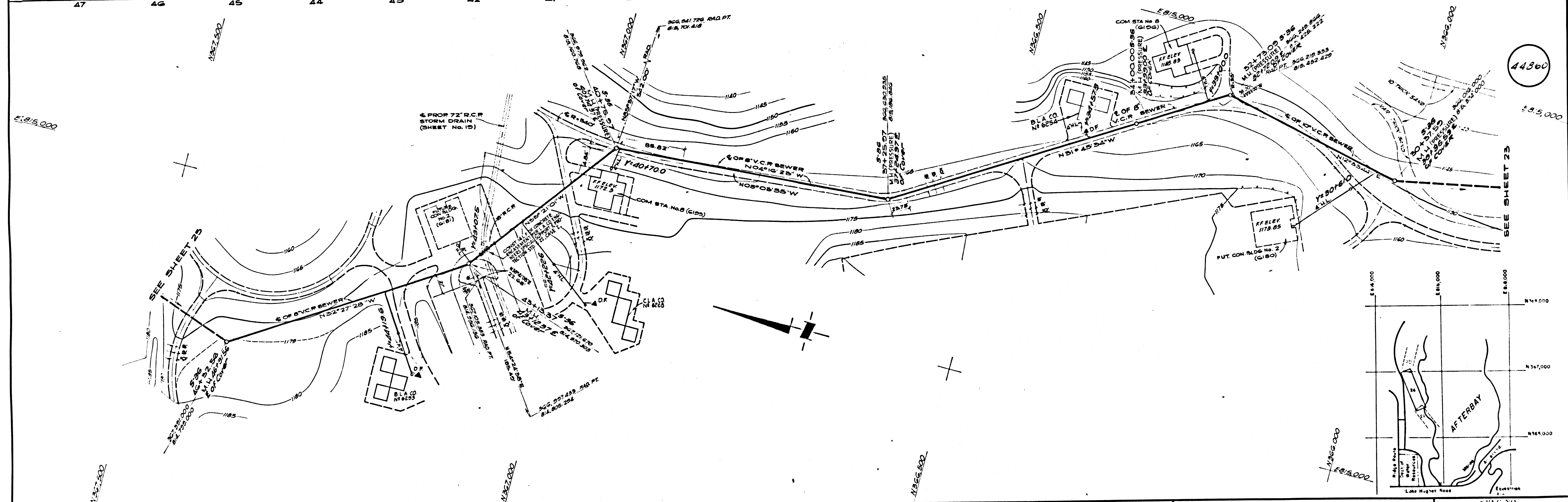
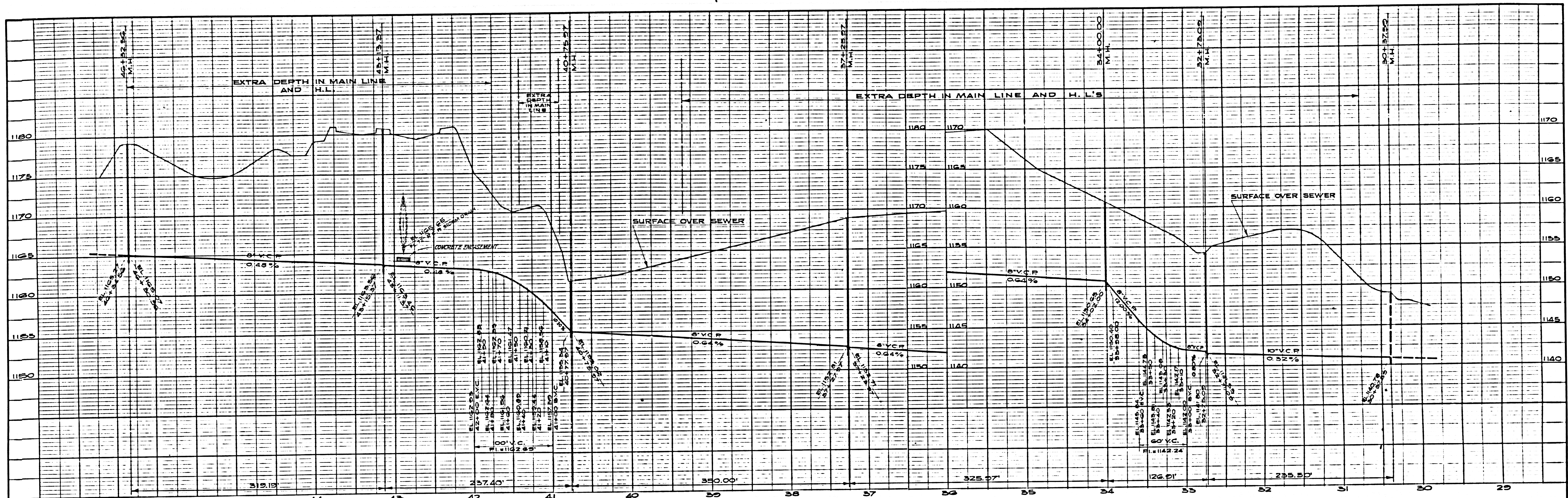
REVISIONS		
No.	Date	Description

SEWER PLAN
GENERAL DEVELOPMENT, AFTERBAY
CASTAIC LAKE
STATE AND COUNTY REGIONAL PARK

APPROVALS
L.A. County Dept. of
Parks and Recreation
Date: _____

MC INTIRE QUIROS
PLANNING & ENGINEERING
670 MONTEREY PASS ROAD
MONTEREY PARK, CALIF.
213-283-7661
Robert Quiros Director of Plans RCE/1754E

SHEET NO. **3183**
CAP PROJ NO. **9940-02**
JOB NO. **5400**
DATE _____
SCALE
HORIZ. 1"=50', VERT. 1"=5'
SHT. 23 OF 37 SHTS.



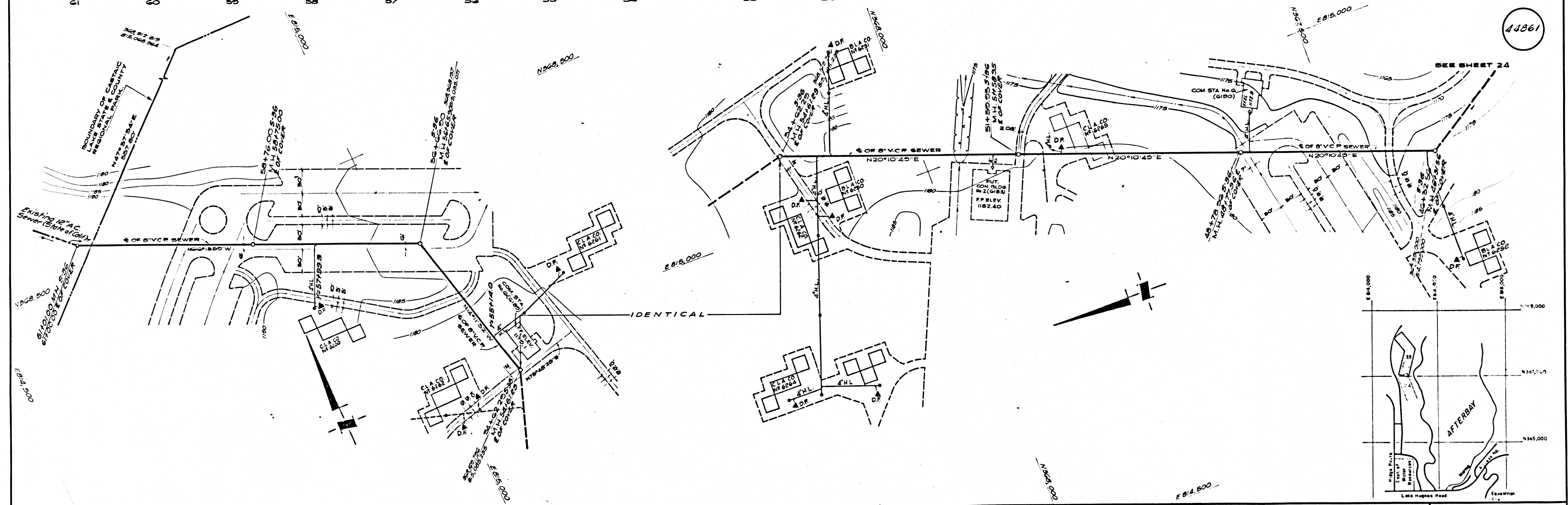
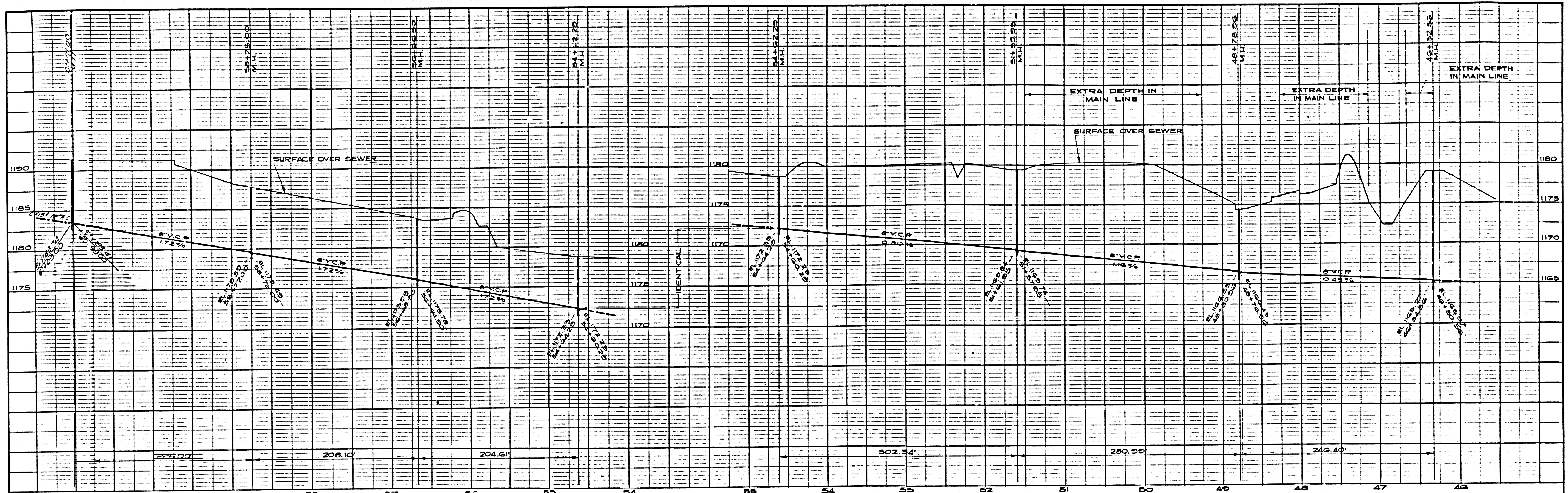
REVISIONS			
No.	Date	Description	Appr.

SEWER PLAN
GENERAL DEVELOPMENT, AFTERBAY
CASTAIC LAKE
STATE AND COUNTY REGIONAL PARK

APPROVALS
L.A. County Dept. of
Parks and Recreation
Date: _____

MC INTIRE QUIROS
PLANNING & ENGINEERING
670 MONTEREY PASS ROAD
MONTEREY PARK, CALIF.
213-283-1661

SHEET NO.
3183
CAP PROJ NO.
9940-02
JOB NO.
5400
DATE _____
SCALE
HORIZ. 1"=50', VERT. 1"=5'
SHT. 24 OF 37 SHTS.



44861

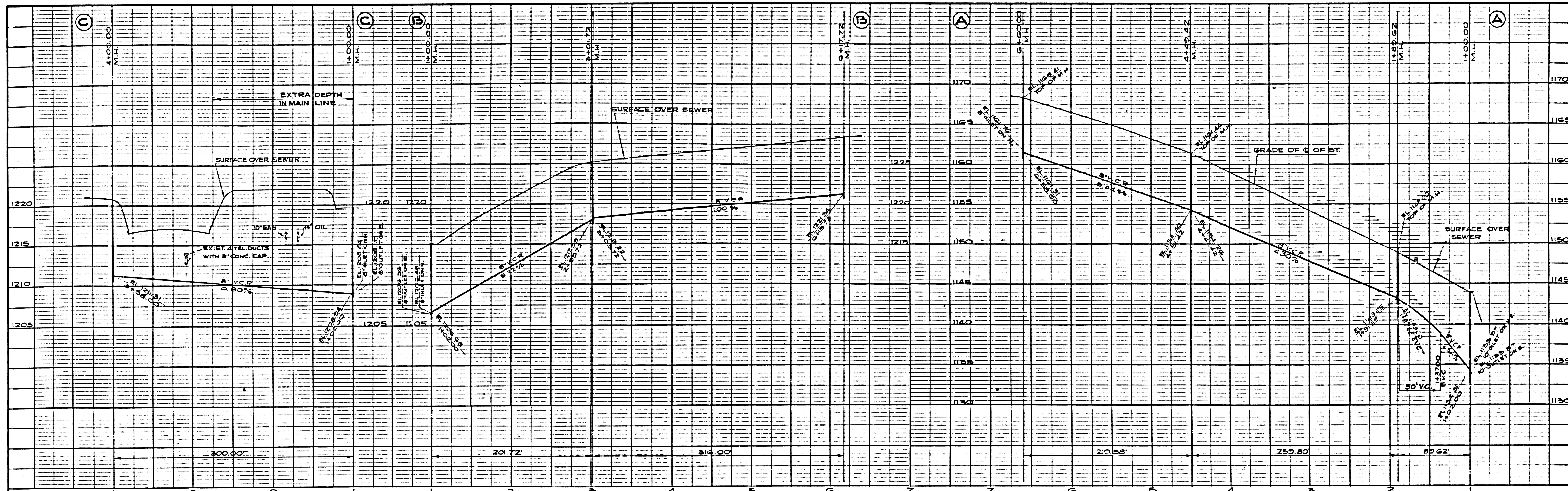
REVISIONS			
No.	Date	Description	Appr.

SEWER PLAN
GENERAL DEVELOPMENT, AFTERBAY
CASTAIC LAKE
STATE AND COUNTY REGIONAL PARK

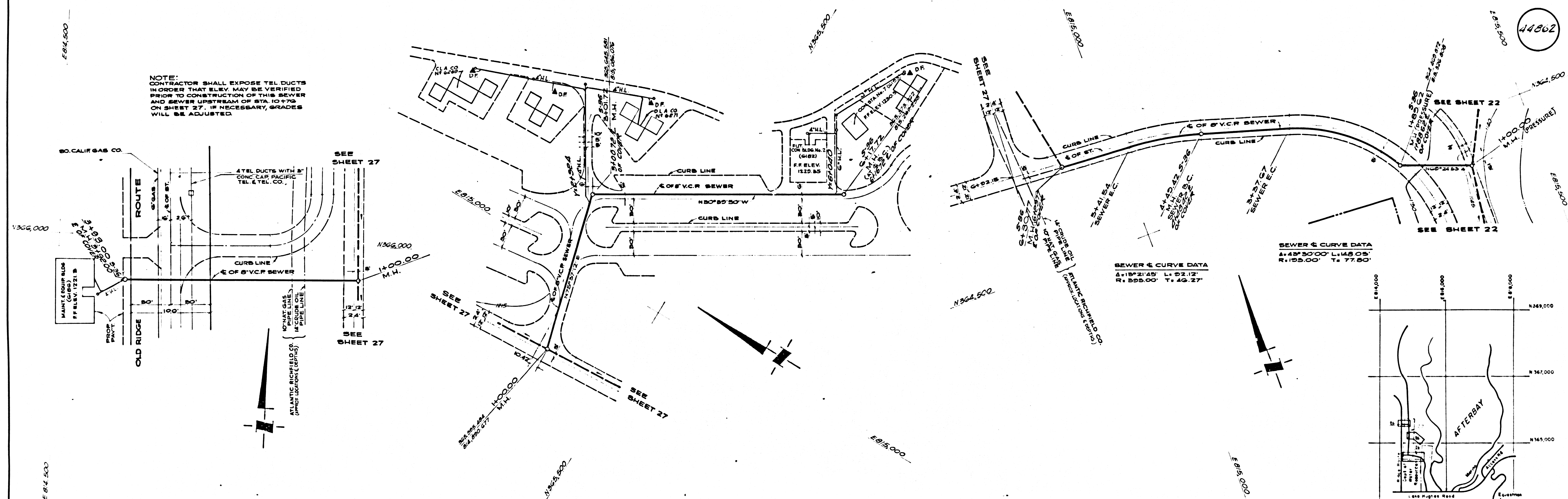
APPROVALS
L.A. County Dept. of Parks and Recreation Date: _____

MCINTIRE QUIROS
PLANNING & ENGINEERING
670 MONTEREY PASS ROAD
MONTEREY PARK, CALIF.
213-283-1661
R. Hank
Edward D. Hong, R.C.E. 17026

SHEET NO. 3183
CAP PROJ NO. 9940-02
JOB NO. 5400
DATE _____
SCALE: HORIZ. 1" = 50', VERT. 1" = 5'
SHT. 25 OF 37 SHTS



NOTE:
CONTRACTOR SHALL EXPOSE TEL DUCTS
IN ORDER THAT ELEV. MAY BE VERIFIED
PRIOR TO CONSTRUCTION OF THIS SEWER
AND SEWER UPSTREAM OF STA. 10+70
ON SHEET 27. IF NECESSARY, GRADES
WILL BE ADJUSTED.



REVISIONS			
No.	Date	Description	Appr.

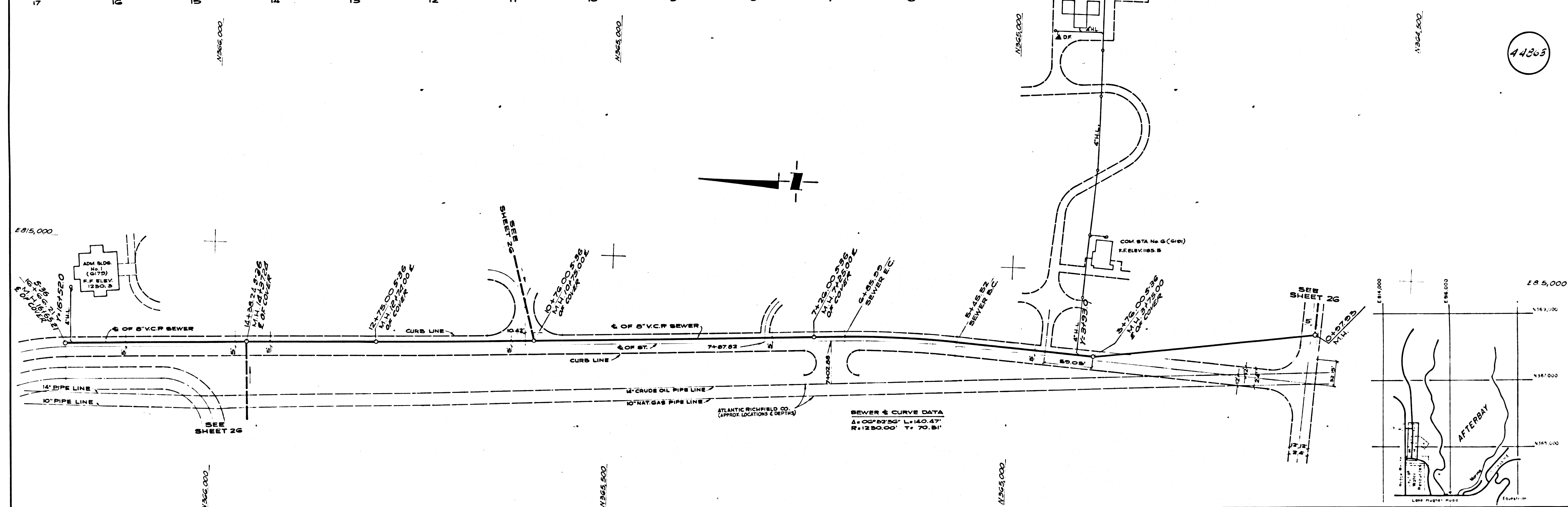
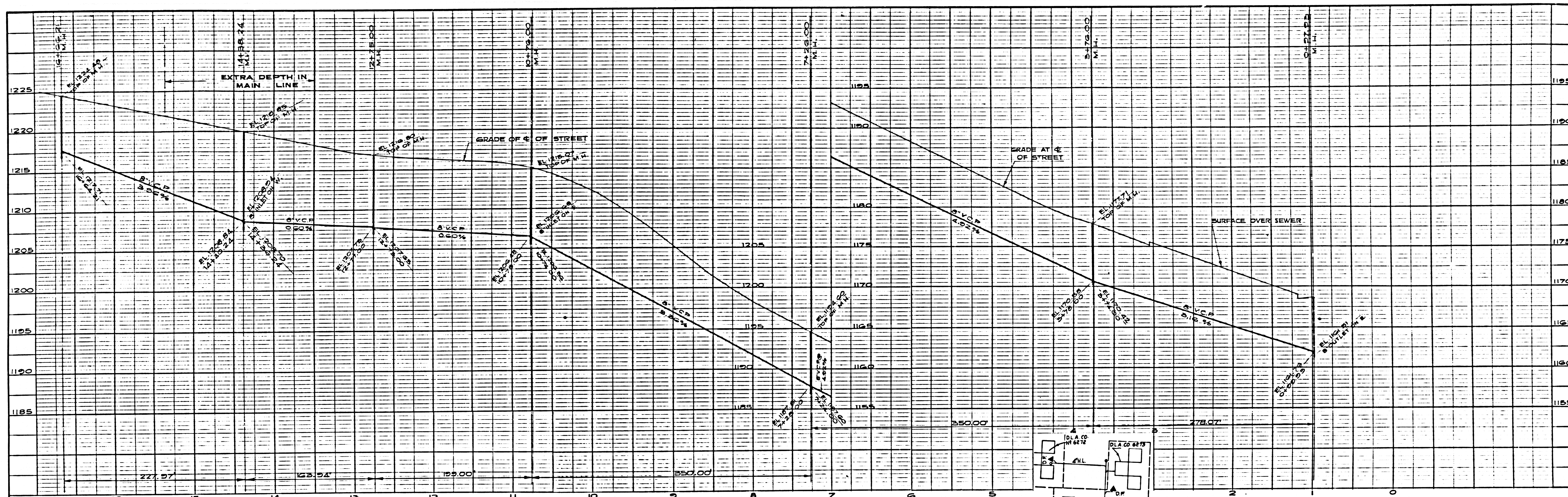
SEWER PLAN
GENERAL DEVELOPMENT, AFTERBAY
CASTAIC LAKE
STATE AND COUNTY REGIONAL PARK

APPROVALS
L.A. County Dept. of
Parks and Recreation Date: _____

MC INTIRE QUIROS
PLANNING & ENGINEERING
670 MONTEREY PASS ROAD
MONTEREY PARK, CALIF.
213-283-1661
RE: 11/23/20

DATE: 11/23/20
CAP PROJ NO: 3183
9940-02
JOB NO: 5400
DATE: _____
SCALE:
HORIZ 1"=50', VERT 1"=5'
SHT. 26 OF 37 SHTS.

NOTE: RELOCATED SEWER LINE ACROSS OLD RIDGE ROUTE



REVISIONS		
No.	Date	Description

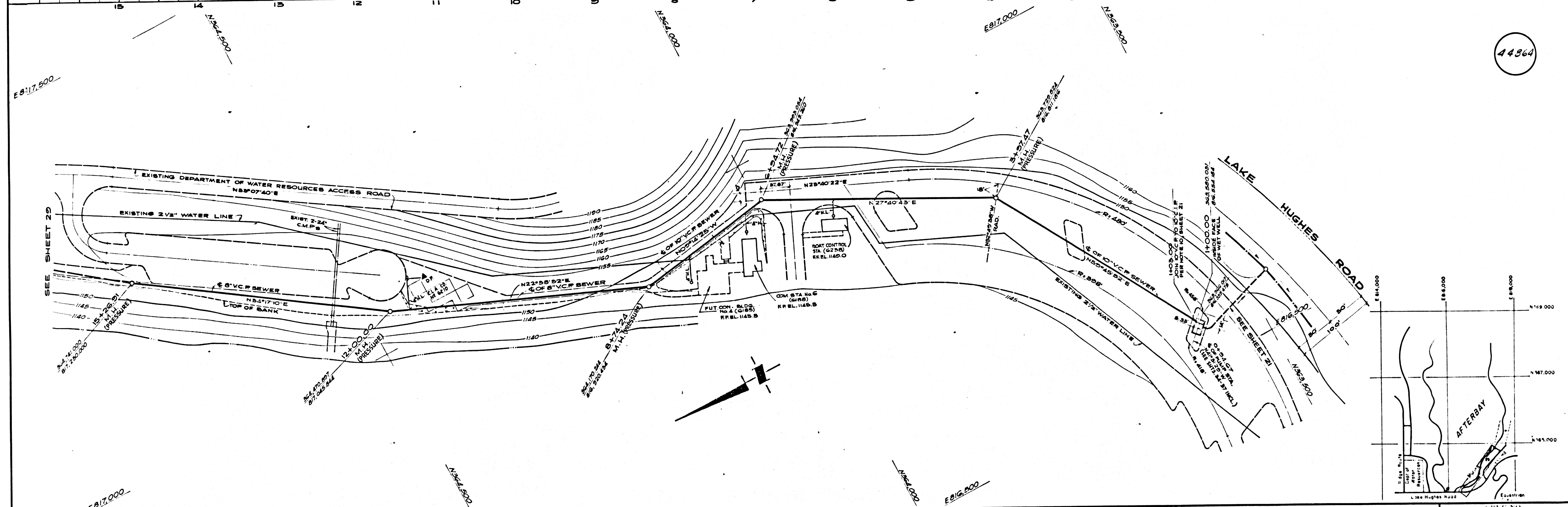
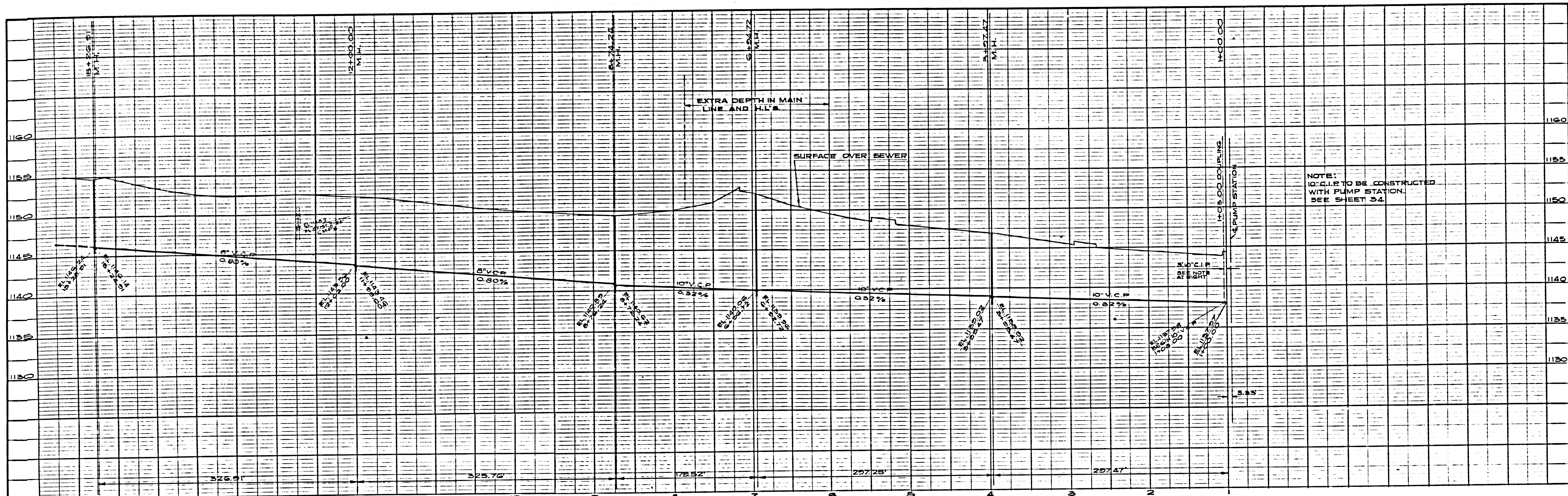
APPROVALS		
L.A. County Dept. of Parks and Recreation	Date:	

SEWER PLAN
GENERAL DEVELOPMENT, AFTERBAY
CASTAIC LAKE
STATE AND COUNTY REGIONAL PARK

M^C INTIRE QUIROS
PLANNING & ENGINEERING
670 MONTEREY PASS ROAD
MONTEREY PARK, CALIF.
213-283-1661

SPEC. NO. **3183**
CAP PROJ. NO. **9940-02**
JOB NO. **5400**
DATE
SCALE
HORIZ. 1" = 50', VERT. 1" = 5'
SHT. 27 OF 37 SHTS.

NOTE: ELEVATED M.N. FROM STA. 14+15.24 TO STA. 14+38.24



44364

REVISIONS		
No.	Date	Description

SEWER PLAN
GENERAL DEVELOPMENT, AFTERBAY
CASTAIC LAKE
STATE AND COUNTY REGIONAL PARK

APPROVALS	
L.A. County Dept. of Parks and Recreation	Date

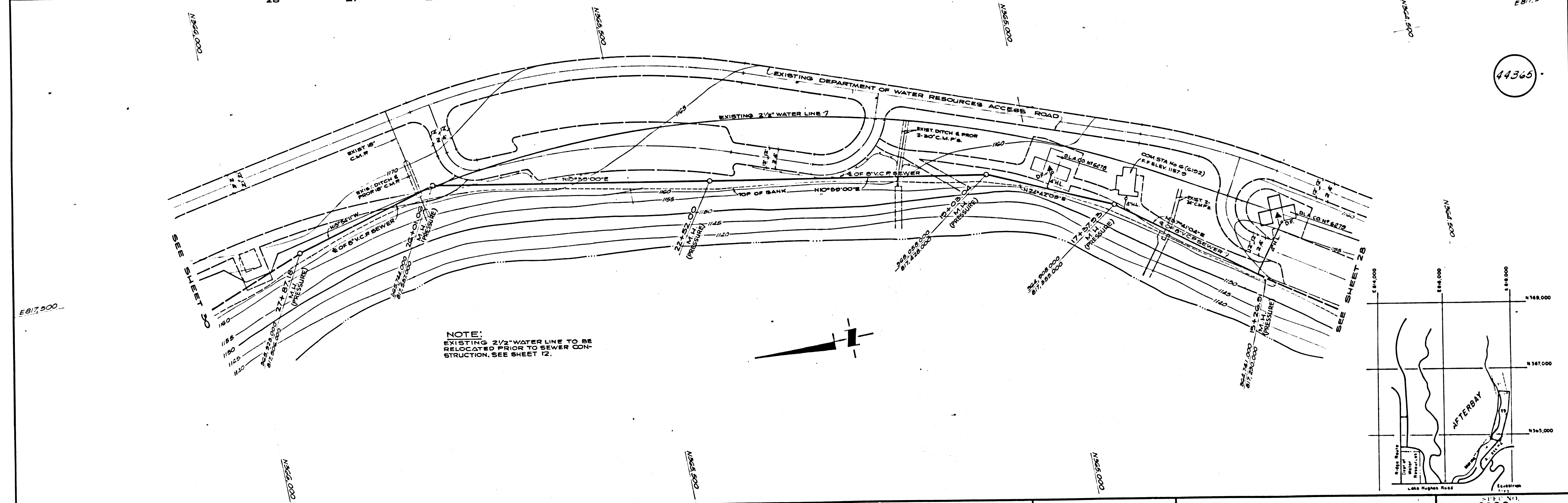
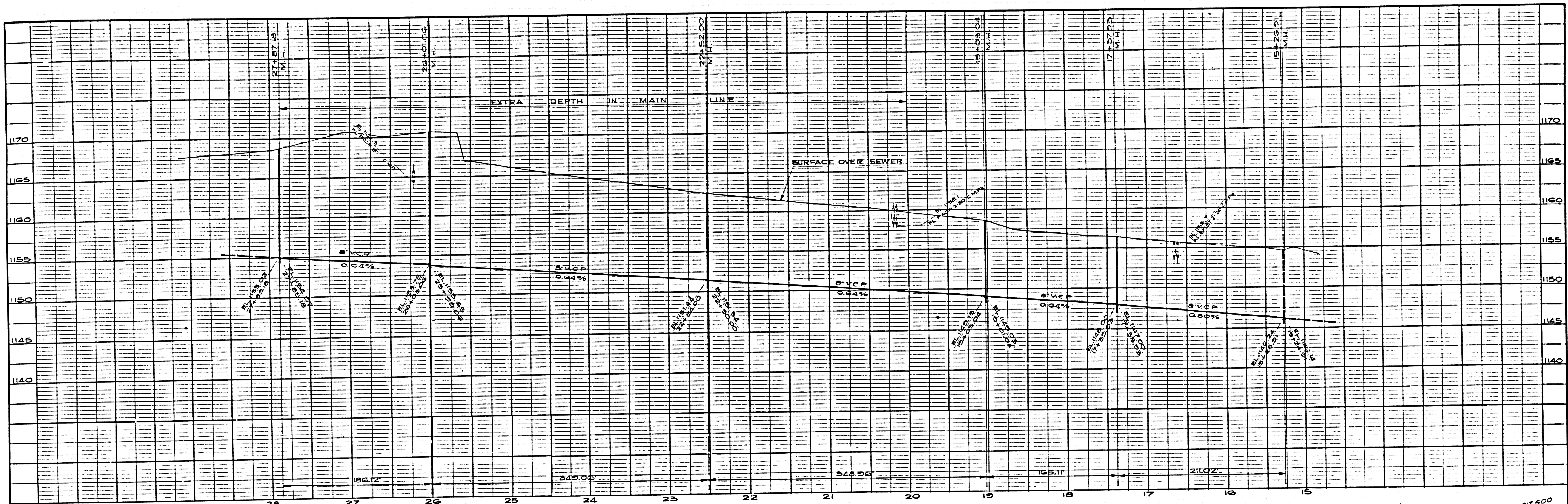
MCINTIRE QUIROS

PLANNING & ENGINEERING
670 MONTEREY PASS ROAD
MONTEREY PARK, CALIF.
213-283-1661

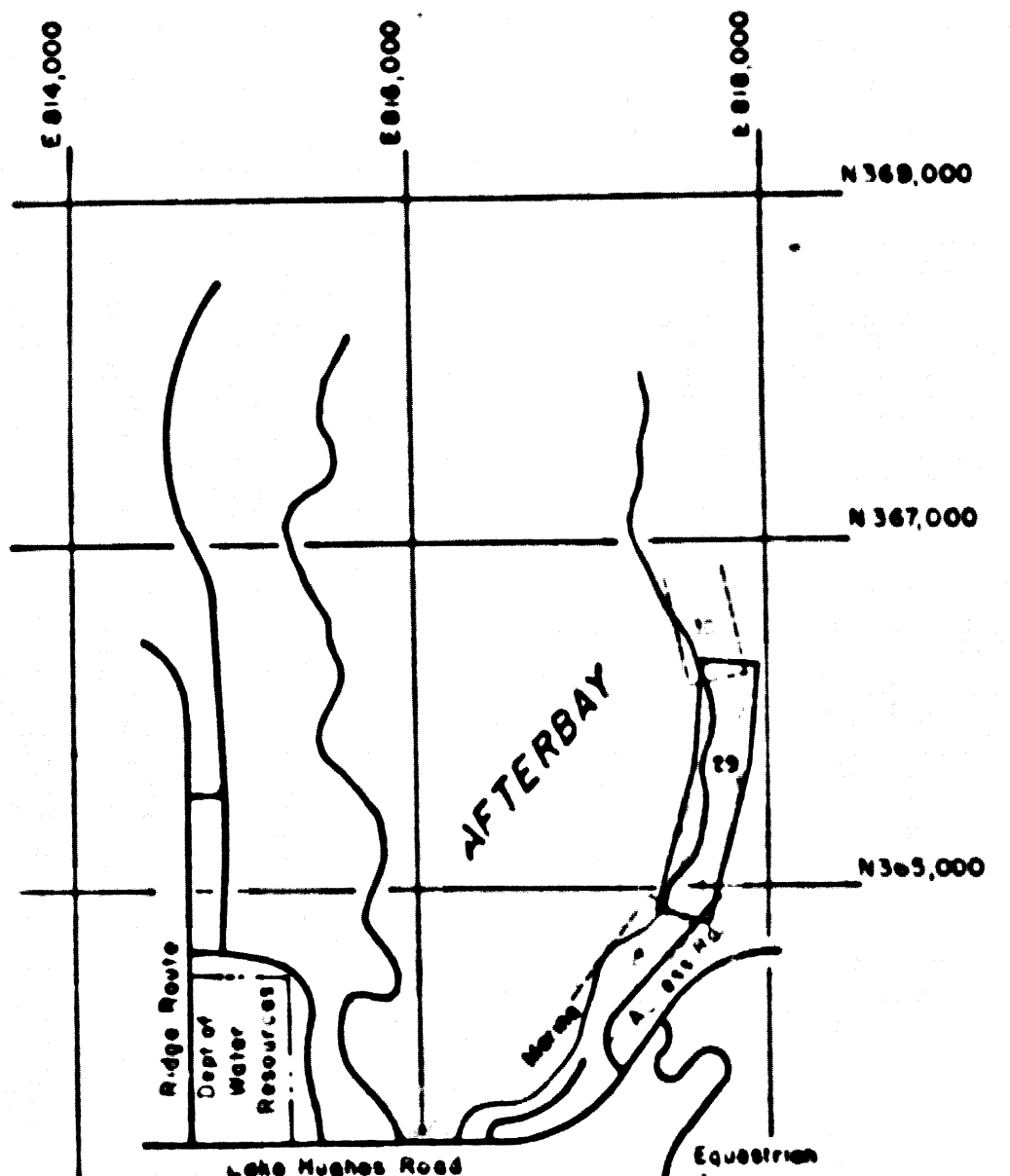
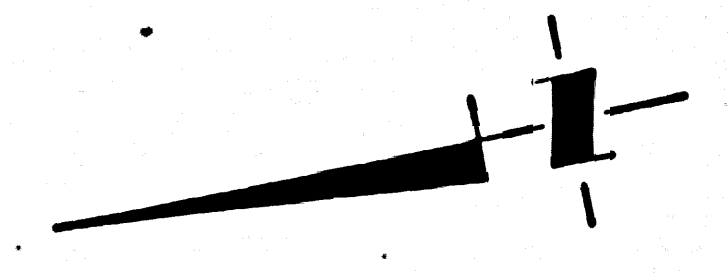
R. McIntire
R. Quiros *David U. Ham* *R. Quiros*

SHEET NO. **3183**
CAP PROJ NO. **9940-02**
JOB NO. **5400**
DATE

SCALE
HORIZ. 1"=50', VERT. 1"=5'
SHT 28 OF 37 SHTS.



NOTE:
EXISTING 2 1/2" WATER LINE TO BE
RELOCATED PRIOR TO SEWER CON-
STRUCTION. SEE SHEET 12.



44365

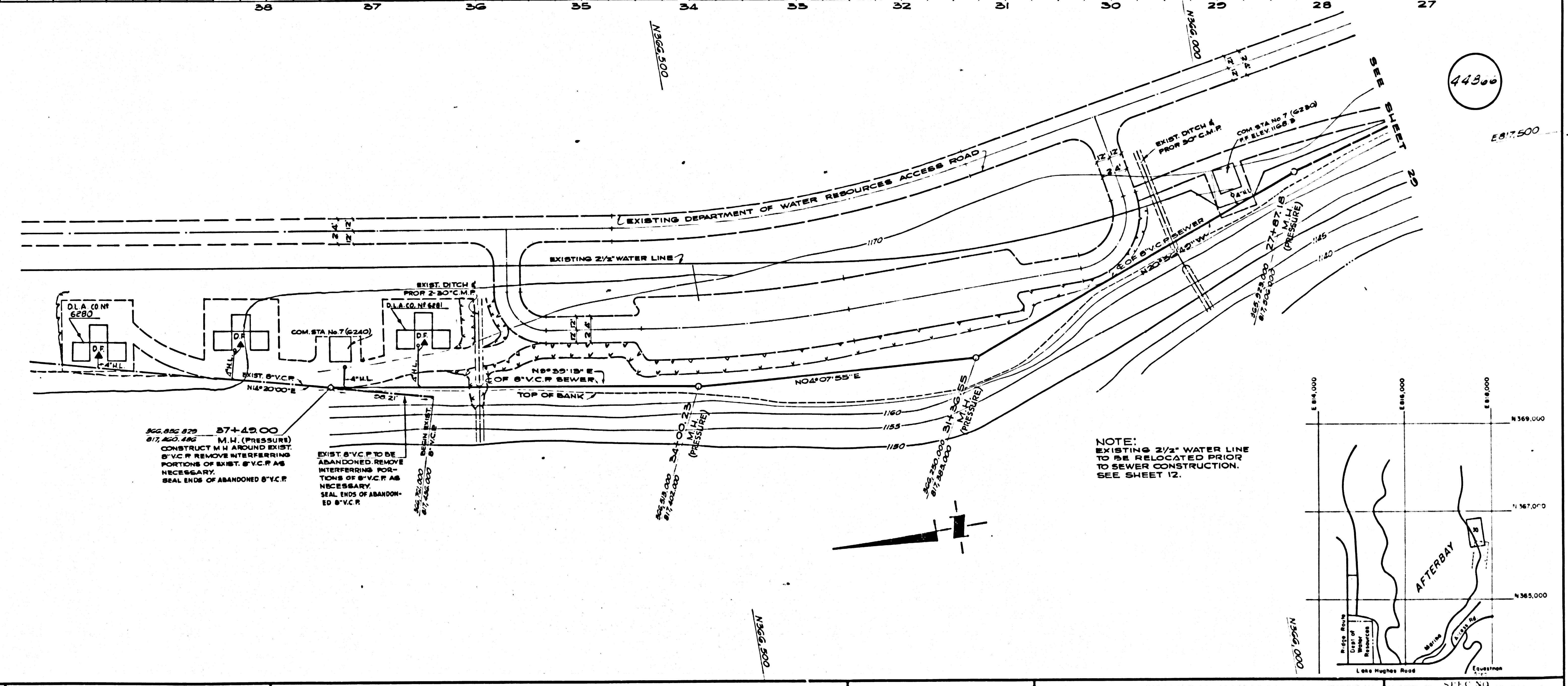
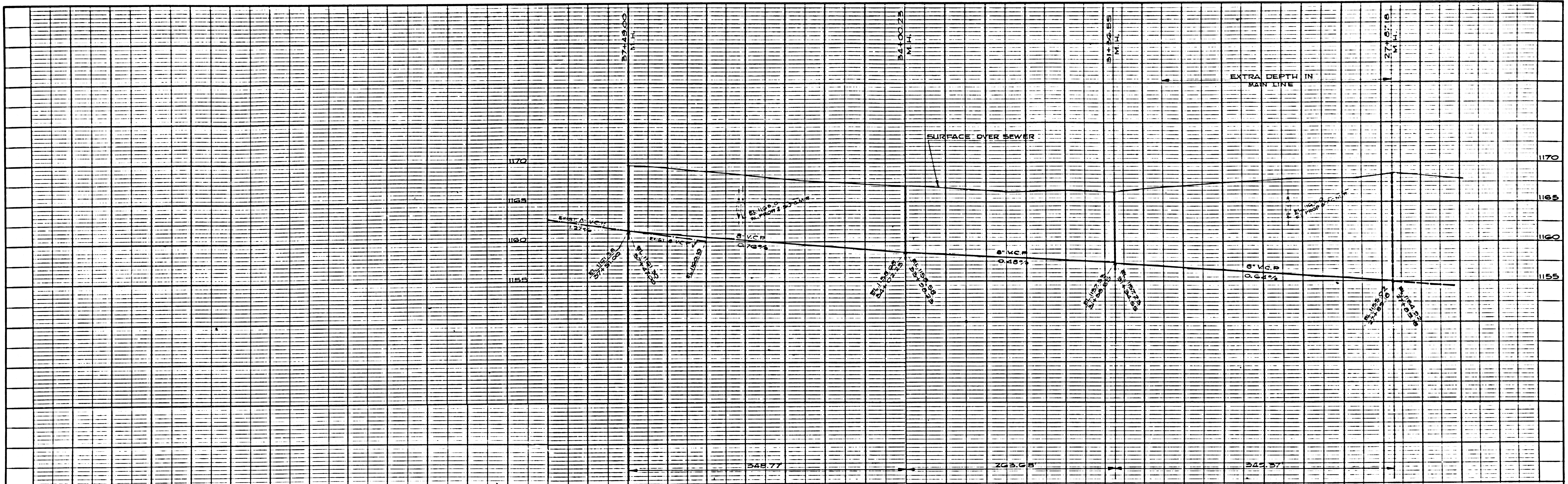
REVISIONS			
No.	Date	Description	Appr.

SEWER PLAN
GENERAL DEVELOPMENT, AFTERBAY
CASTAIC LAKE
STATE AND COUNTY REGIONAL PARK

APPROVALS
I. A. County Dept. of
Parks and Recreation Date: _____

MC INTIRE QUIROS
PLANNING & ENGINEERING
670 MONTEREY PASS ROAD
MONTEREY PARK, CALIF.
213-283-1661
R. J. Quiros
Robert Quiros, P.E., R.C.F. 11925

3183
CAP PROJ NO
9940-02
JOB NO
5400
DATE _____
SCALE
HORIZ 1"=50', VERT 1"=5'
SHT. 29 OF 37 SHTS.

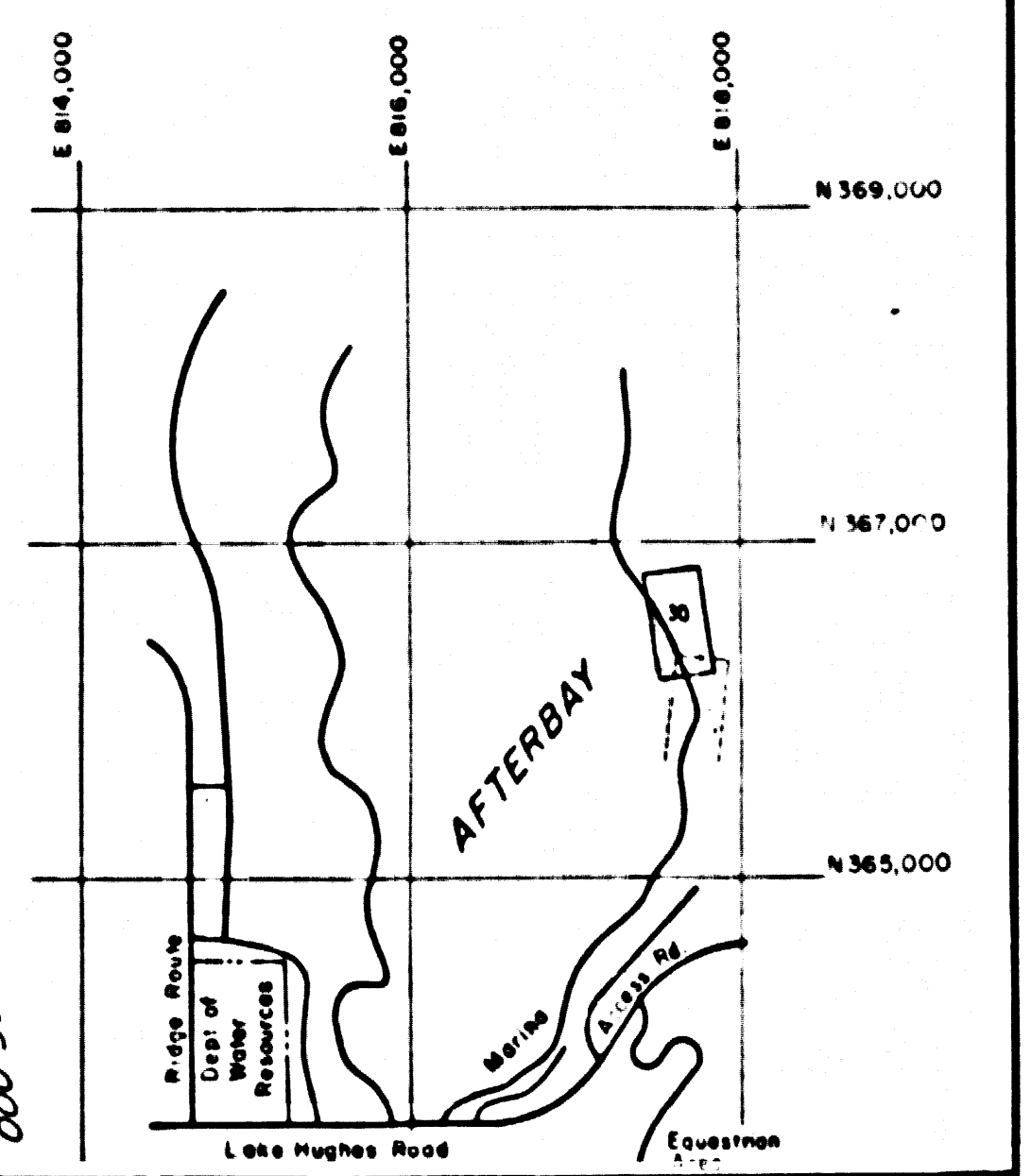


806.832 27+45.00
 817.400 442 M.H. (PRESSURE)
 CONSTRUCT M.H. AROUND EXIST.
 8\"/>

EXIST. DITCH PROP. 2' 30\"/>

EXIST. DITCH PROP. 2' 30\"/>

NOTE:
 EXISTING 2 1/2\"/>



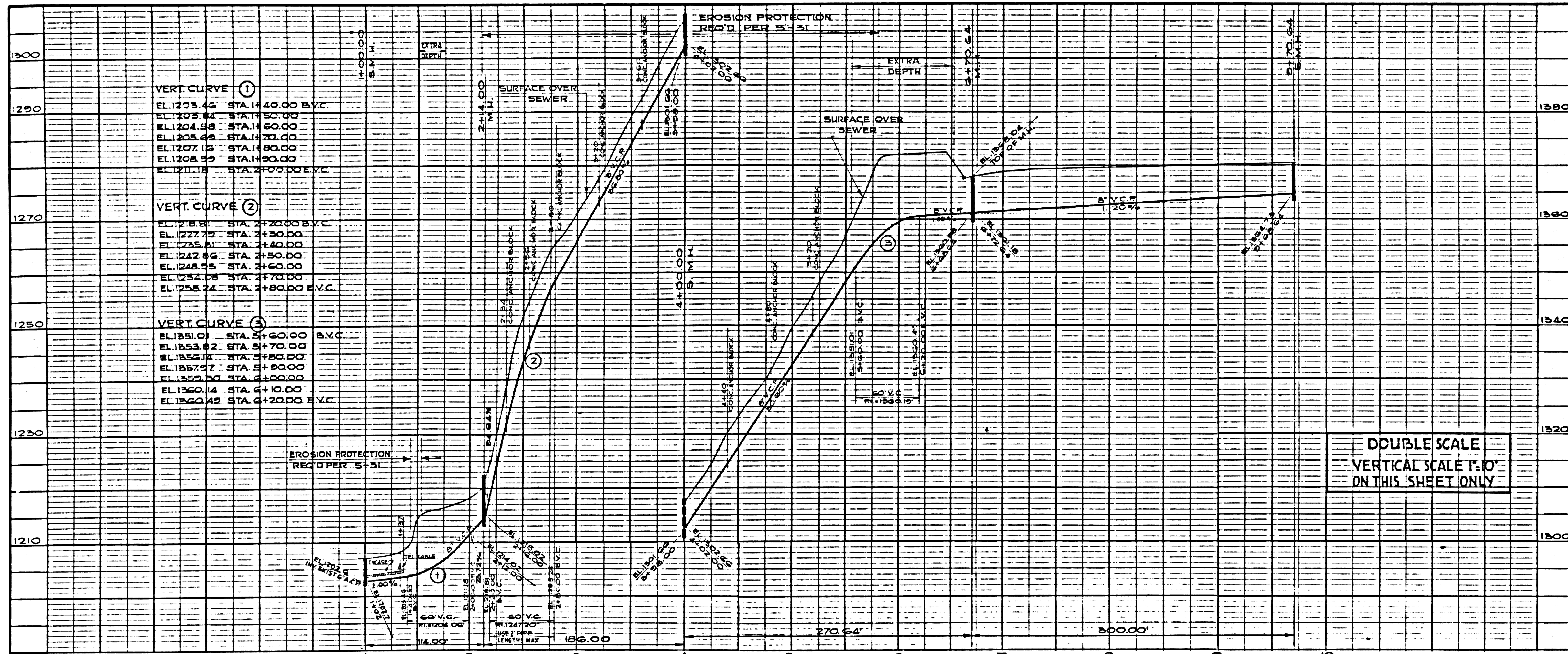
REVISIONS			
No.	Date	Description	Appr.

SEWER PLAN
GENERAL DEVELOPMENT, AFTERBAY
CASTAIC LAKE
STATE AND COUNTY REGIONAL PARK

APPROVALS
 L.A. County Dept. of
 Parks and Recreation Date:

McINTIRE QUIROS
 PLANNING & ENGINEERING
 670 MONTEREY PASS ROAD
 MONTEREY PARK, CALIF.
 213-283-1661
D. McIntire
2/27/80

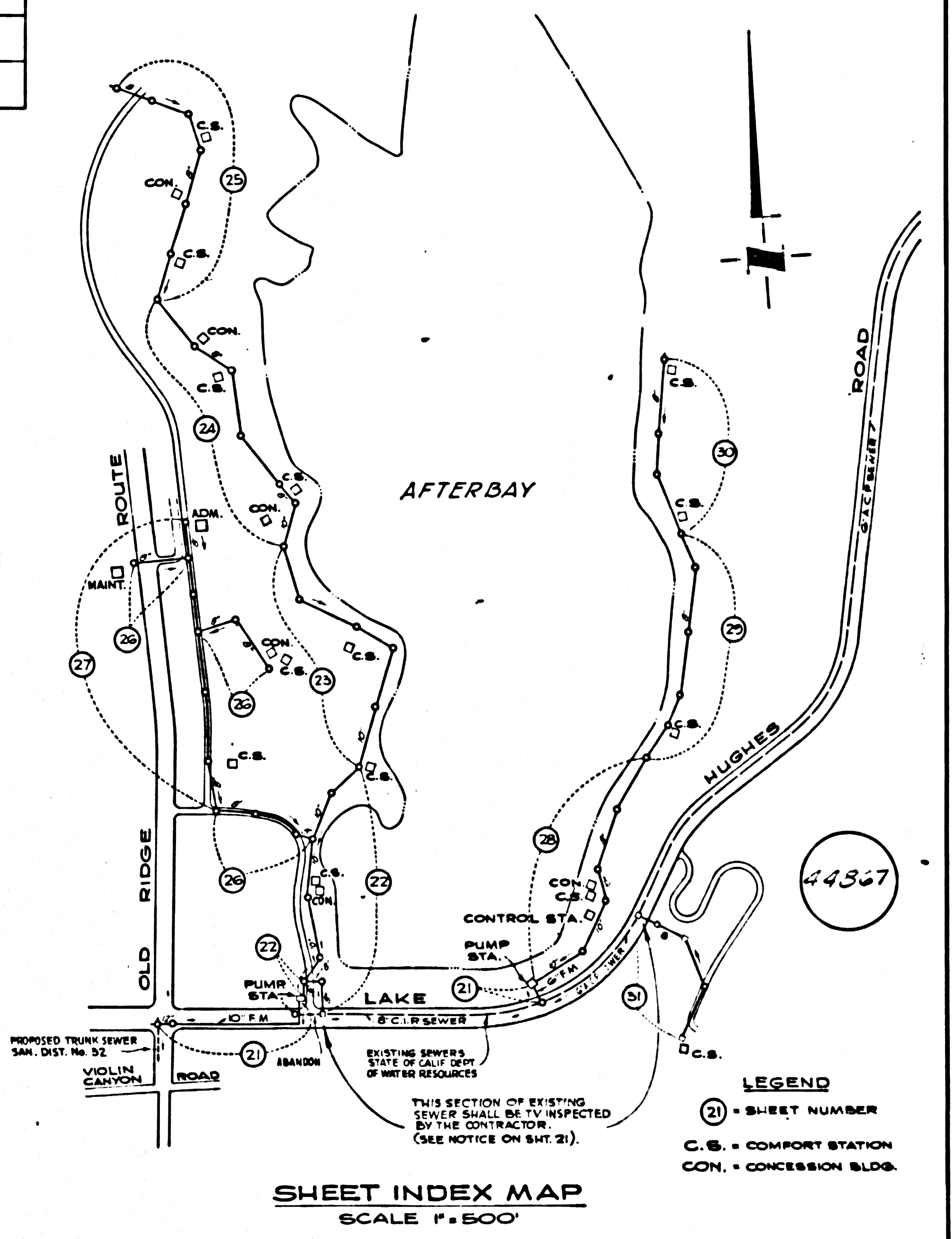
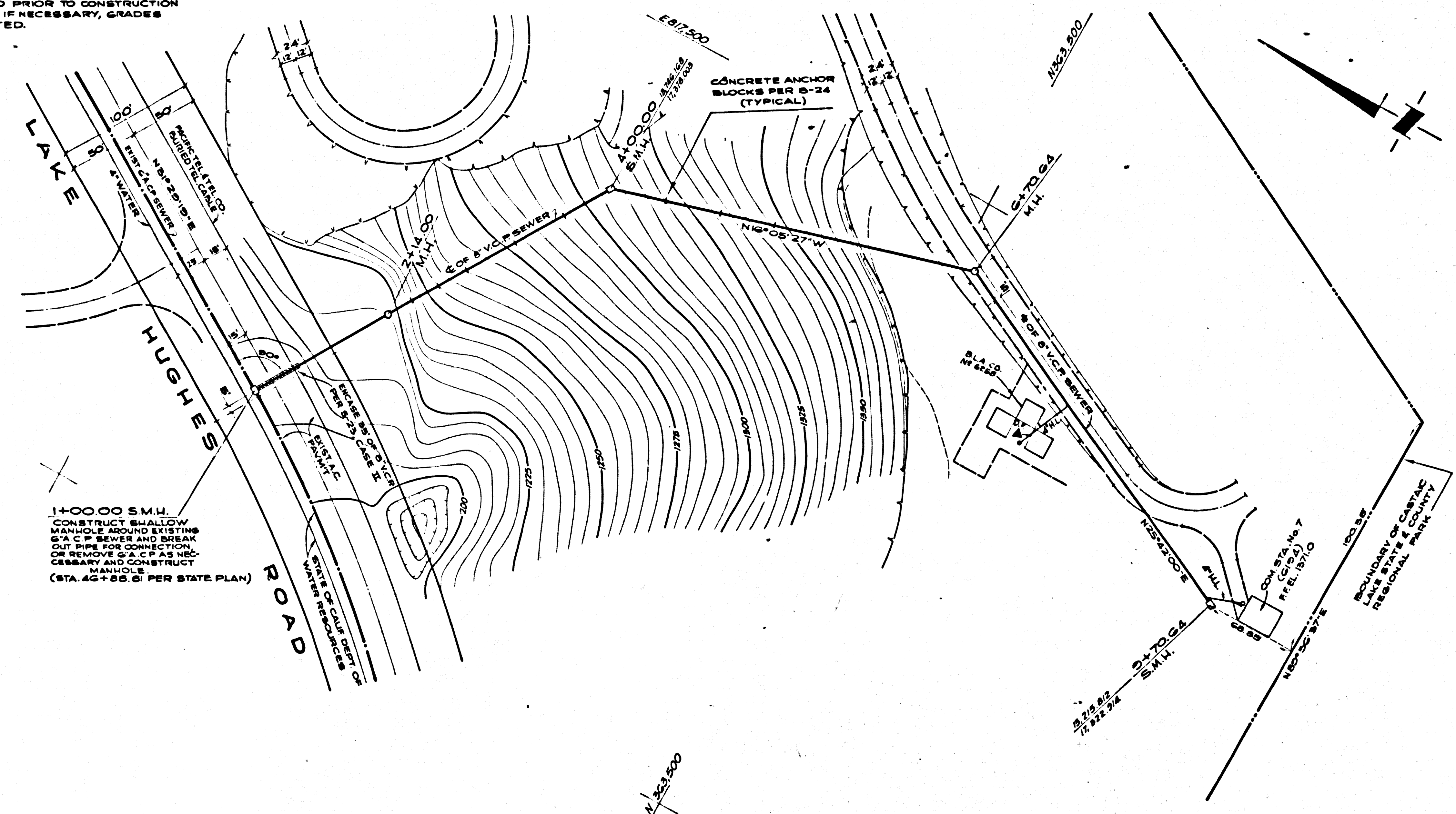
SHEET NO.
3183
 CAP PROJ NO.
9940-02
 JOB NO.
5400
 DATE
 SCALE
 HORIZ. 1"=50', VERT. 1"=5'
SHT. 30 OF 37 SHTS.



- SEWER CONSTRUCTION NOTES: (CONTINUED FROM SHEET 21)**
- MANHOLES NOTED "PRESSURE" WHICH ARE WITHIN 200 FEET OF THE AFTERBAY SHALL HAVE 3" AND PRESSURE FRAMES AND COVERS PER L.A. COUNTY SANITATION DISTRICT STD. NO. 8. A 200 TON I.D. RINGS SHALL BE PER COUNTY ENGINEER STD. PLAN 3-35.
 - CLEANOUTS ON 8" AND 6" LINES SHOWN THIS — ON THE PLANS, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE AND THE FOLLOWING:
 - LOCATIONS SHOWN ON THE PLAN ARE APPROXIMATE AND MAY VARY AS NECESSARY.
 - ALL CLEANOUT BODIES SHALL BE CAST IRON. EACH CLEANOUT PLUS ASSEMBLY SHALL CONSIST OF A CADMIUM PLATED CAST IRON PLUG WITH UNTAPERED TUBED AND A TAPERED PORTION WHICH MAKES A WATER-TIGHT SEAL AGAINST A LEAD SEAT OF 2" TAPERED BRASS PLUS WHICH SCREWS INTO A CAST IRON COLLAR. NYLON PLUGS WITH SQUARE BOSSES ARE ACCEPTABLE.
 - ALL CLEANOUTS SHALL EXTEND TO A POINT JUST BELOW A CAST IRON FRAME AND COVER. SET TO GRADE WHERE IN REED OR IMPROVED APPAS THEY SHALL BE ENCASED IN A MINIMUM 24" DIAMETER OR 24" SQUARE, 8" THICK CONCRETE COLLAR SET FLUSH WITH THE FINISHED SURFACE. WHERE SURFACE IS TO REMAIN NATURAL, FRAME AND COVER SHALL BE 6" ABOVE THE SURFACE WITH A 1/2" THICK CONCRETE COLLAR.
 - THE FRAME AND COVER SET IN CONCRETE ABOVE THE CLEANOUT SHALL BE HEAVY DUTY CAST IRON. THE COVER SHALL HAVE DIAMOND TREAD AND SHALL BE SECURED WITH VAN-DAL-PROOF SCREWS.
 - DUCTILE CAST IRON PIPE SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) STANDARDS #21.80 AND #21.81 BY RESPECTIVELY PIPE JOINTS AND CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS FOR GRAY CAST IRON PIPE AS PRESCRIBED IN THE SPECIFICATIONS.
 - CONSTRUCTION REQUIREMENTS FOR VERTICAL AND HORIZONTAL SEPARATION OF WATER & SEWER MAIN SHALL BE PER LOS ANGELES COUNTY ENGINEER STANDARD PLAN 5-C1.
 - THE COUNTY ENGINEER WILL FURNISH A ROADWAY ELEVATION PREPARED IN COUNTY STREETS FROM THE LOS ANGELES COUNTY ROAD DEPARTMENT, DISTRICT OFFICE NO. 6 AT BERRIN HWY., PALMDALE.

NOTE:
FLOW IN THE EXISTING G.A.C.P. AND B.C.I.P. SEWERS IN LAKE HUGHES ROAD SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. ANY METHODS FOR DIVERTING THE FLOW SHALL BE APPROVED BY THE STATE DEPT. OF WATER RESOURCES AND THE ARCHITECT.

NOTE:
CONTRACTOR SHALL EXPOSE THE EXISTING G.A.C.P. SEWER IN ORDER THAT ELEVATION MAY BE VERIFIED PRIOR TO CONSTRUCTION OF THIS SEWER. IF NECESSARY, GRADES WILL BE ADJUSTED.



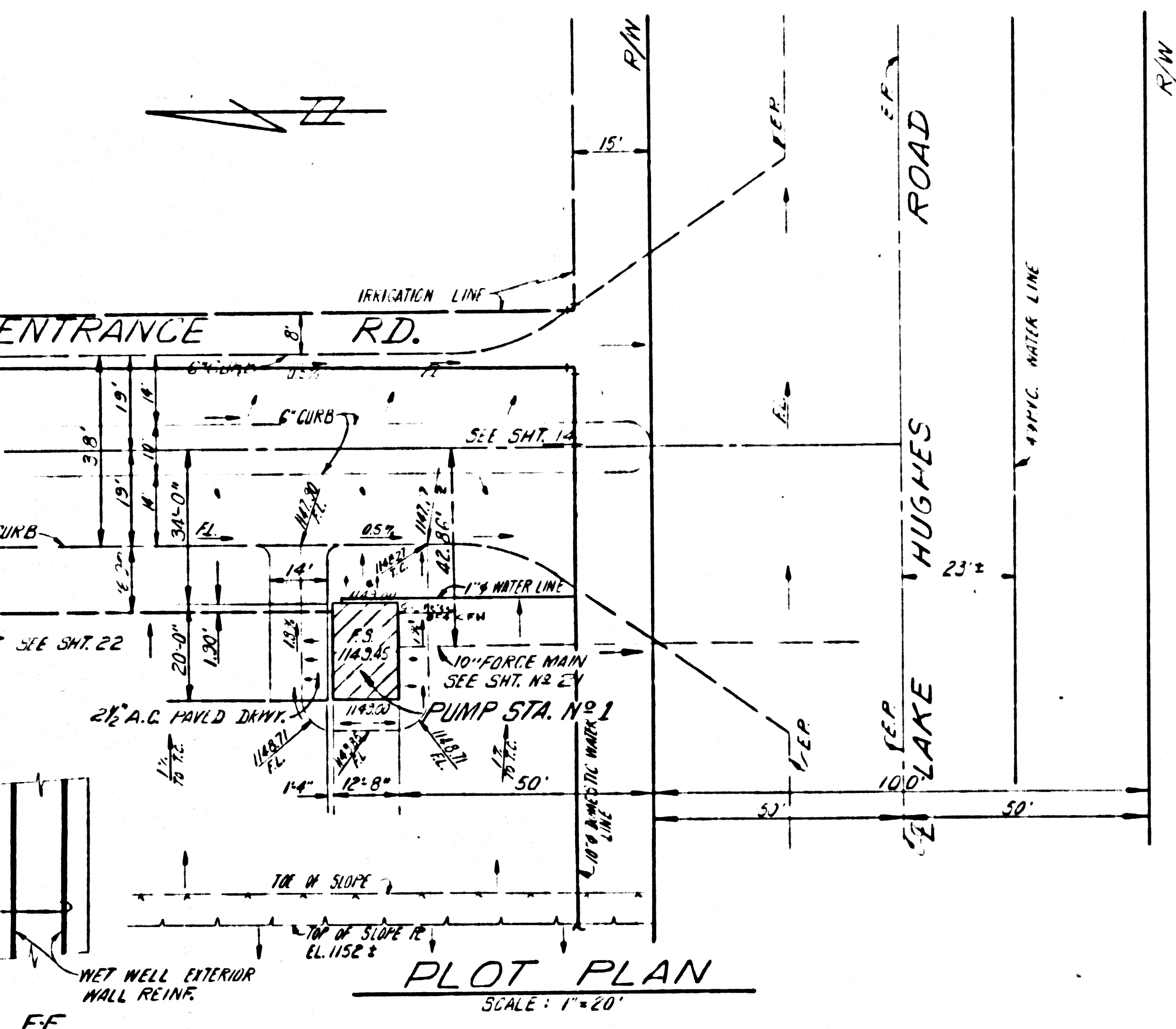
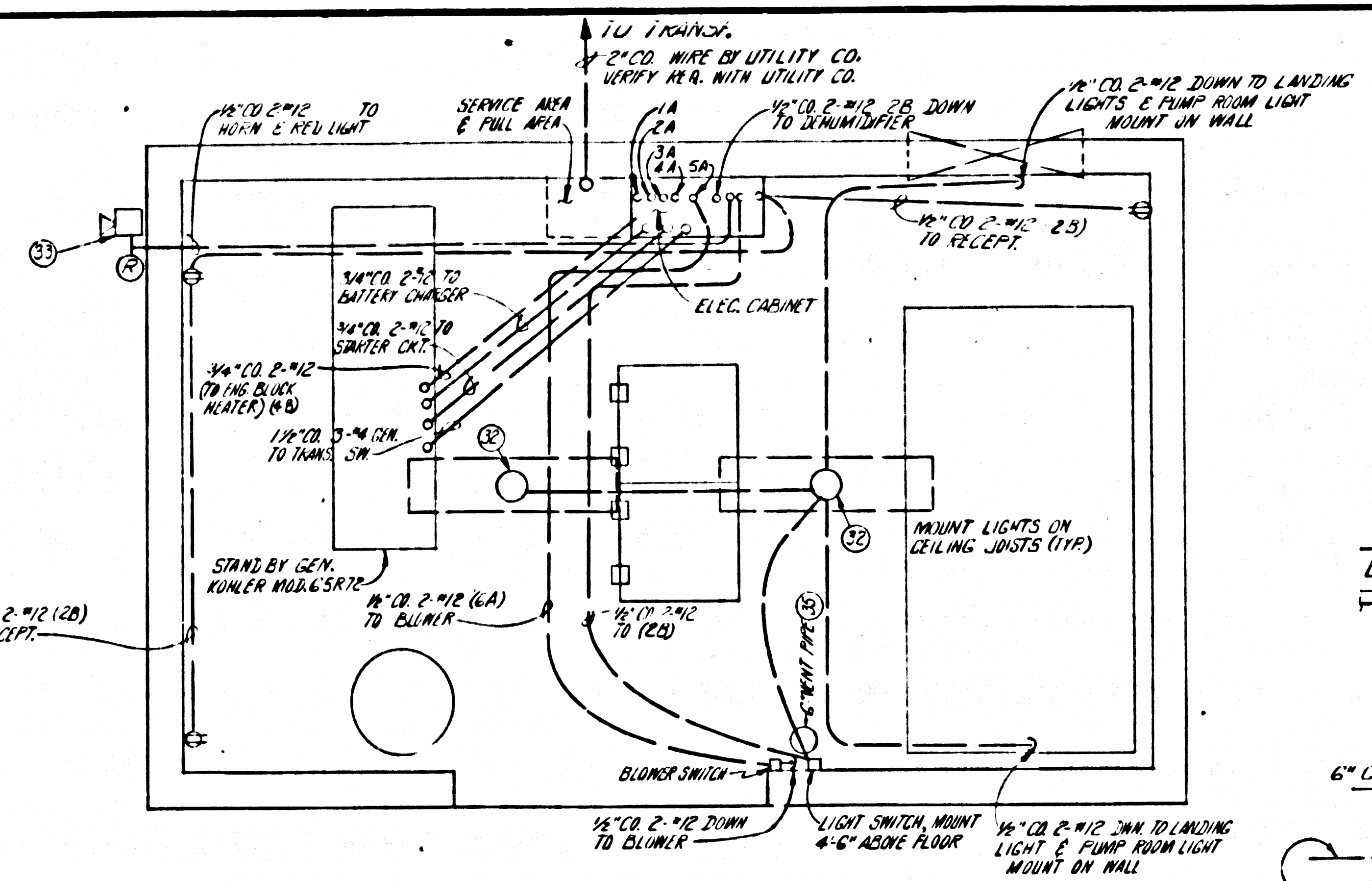
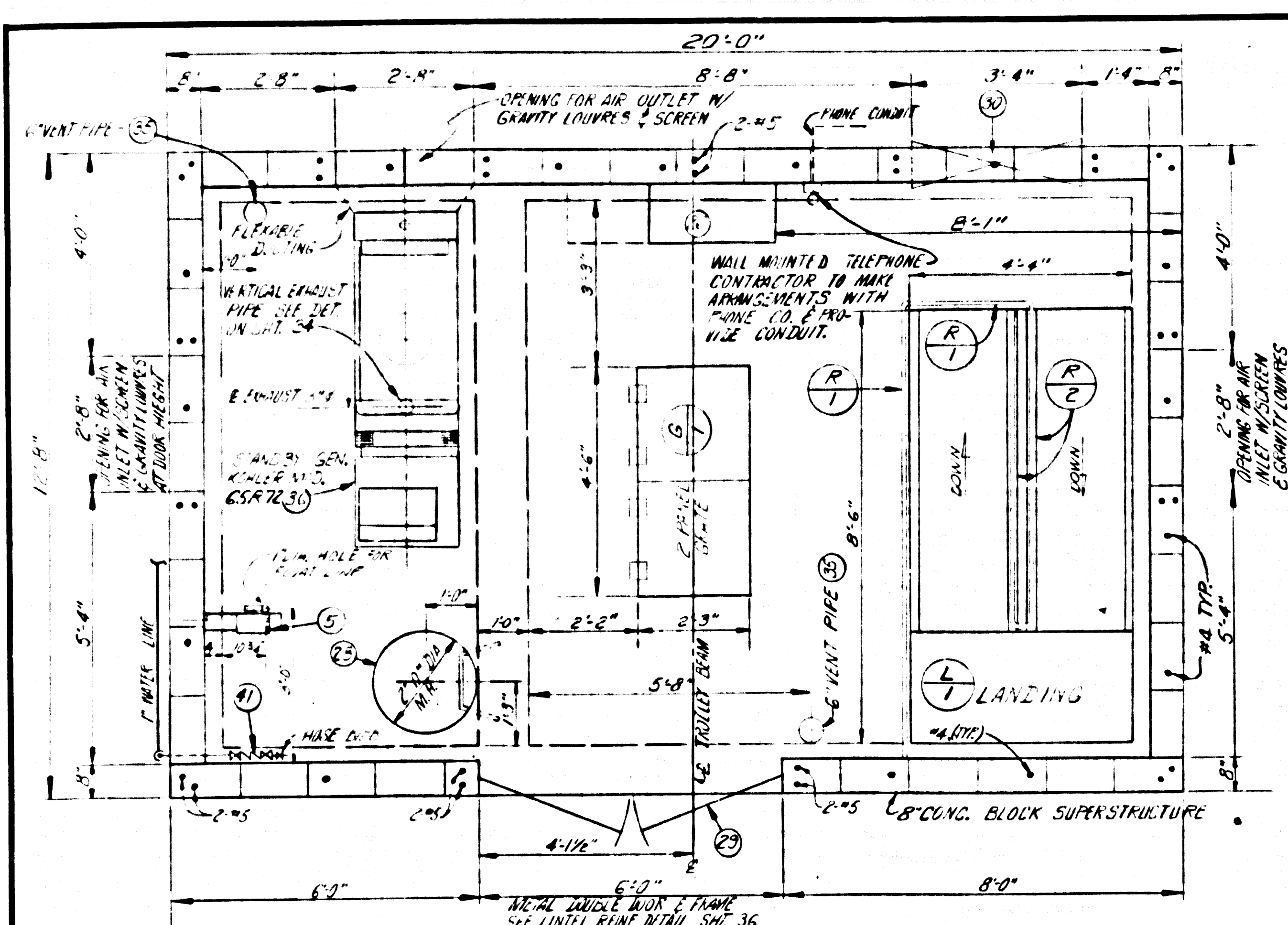
REVISIONS			
No.	Date	Description	Appr.

GENERAL DEVELOPMENT, AFTERBAY
CASTAIC LAKE
STATE AND COUNTY REGIONAL PARK

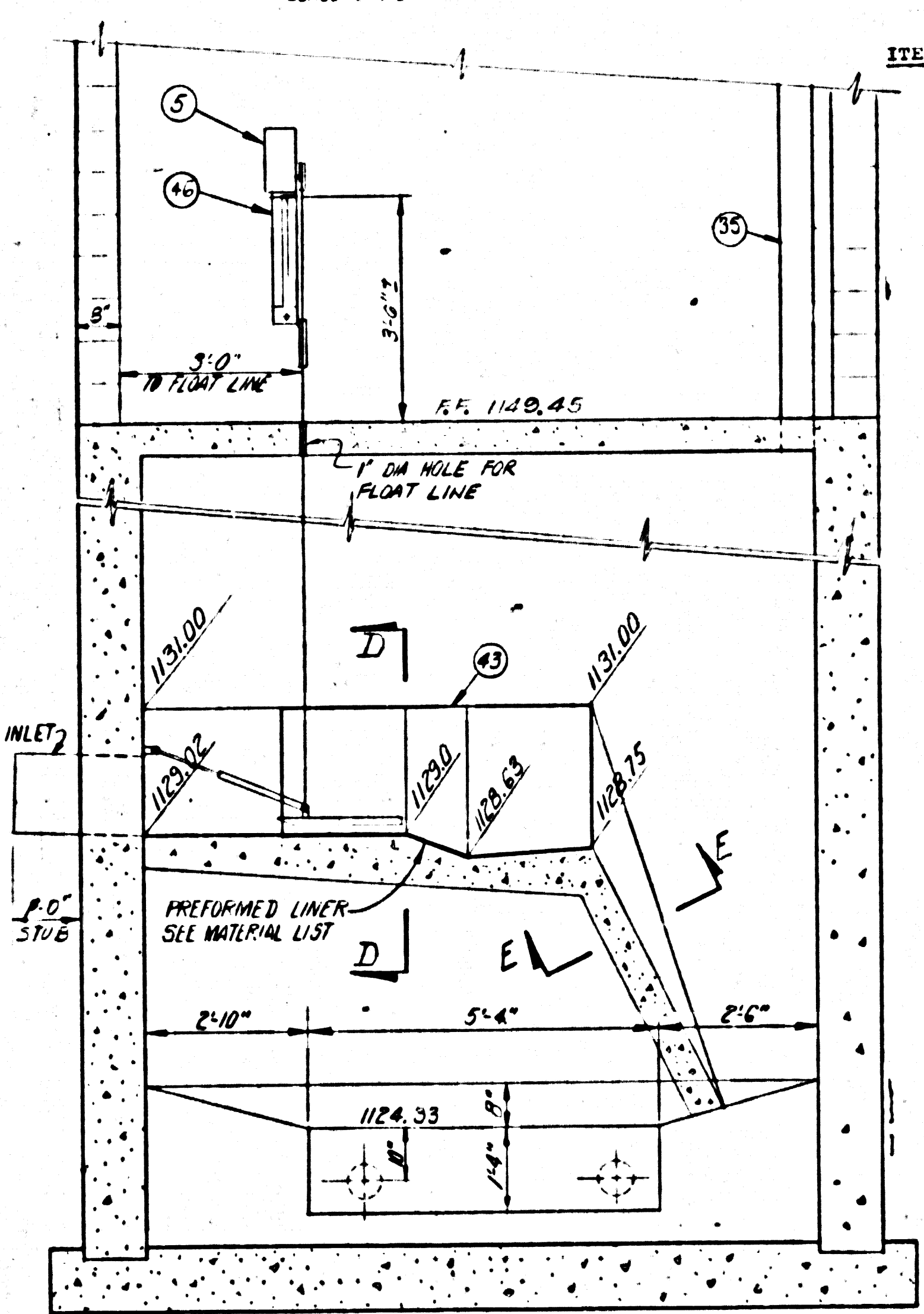
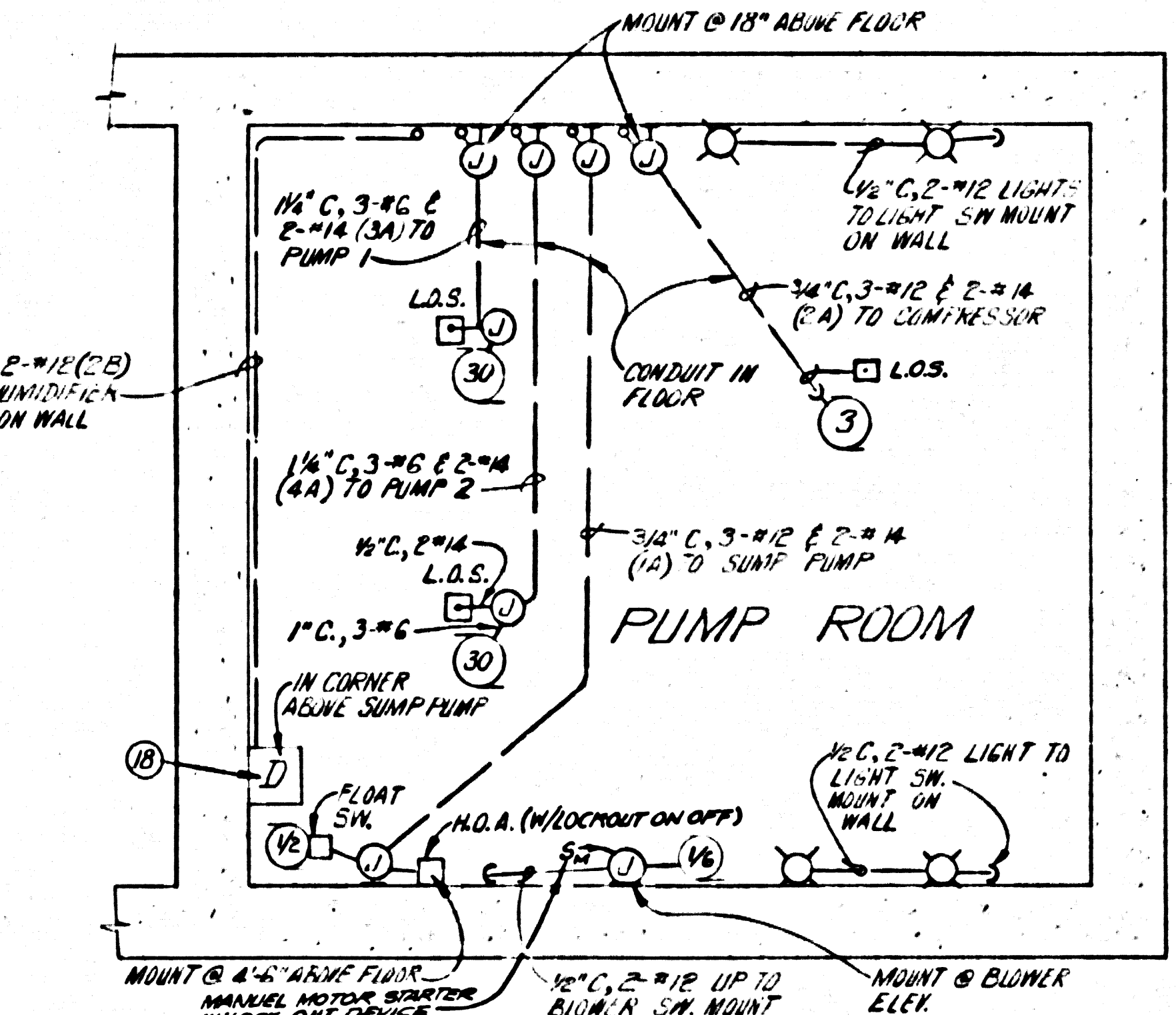
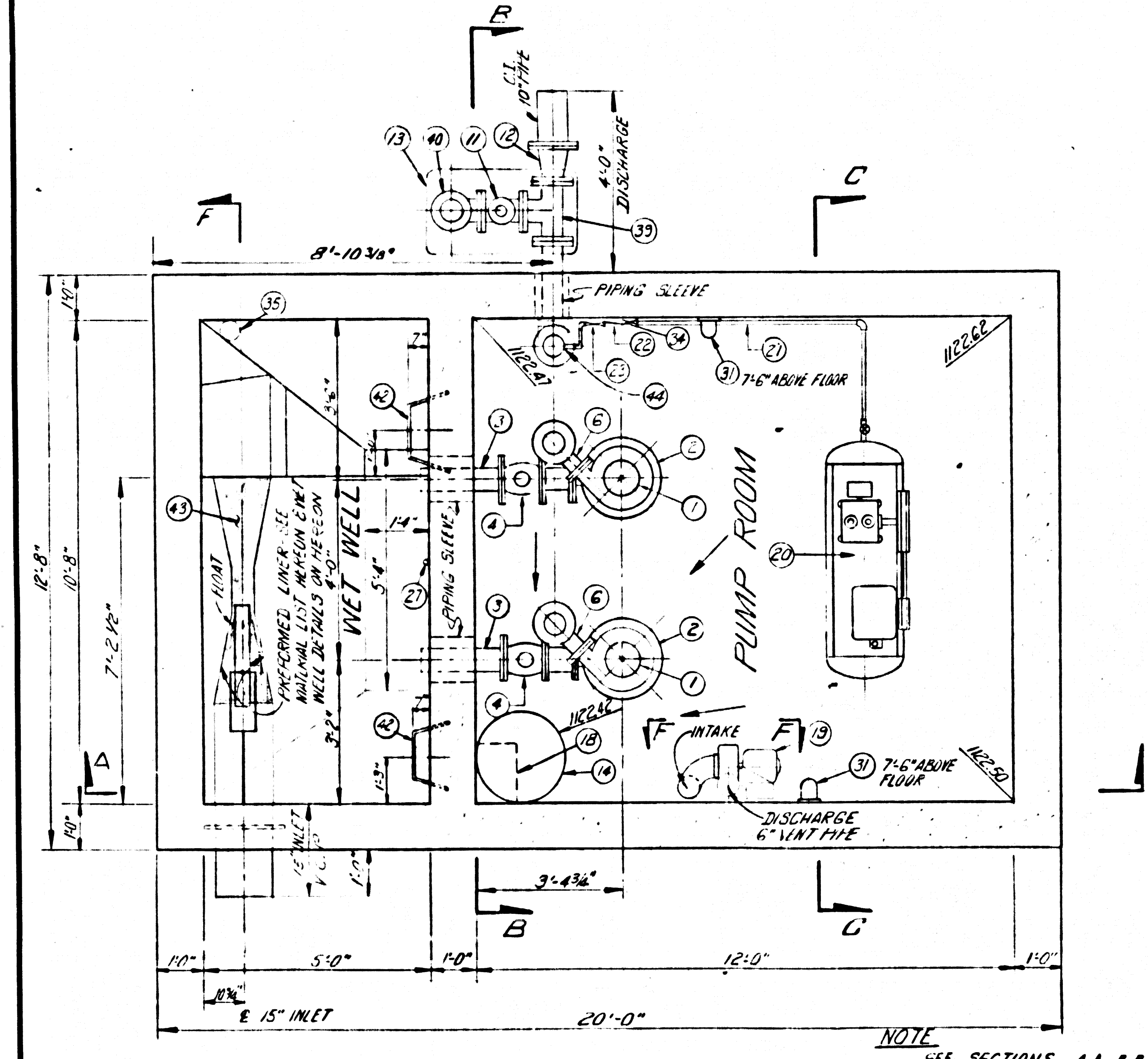
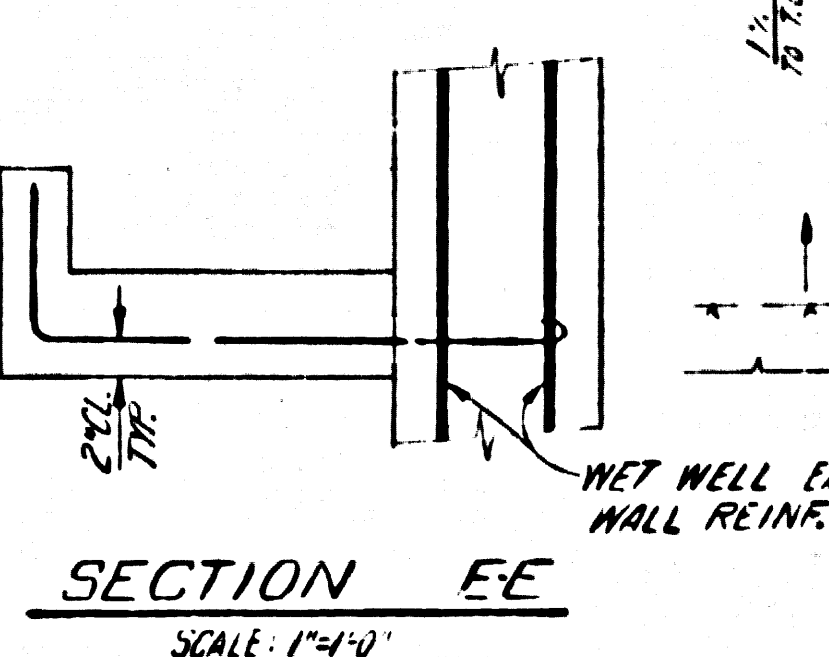
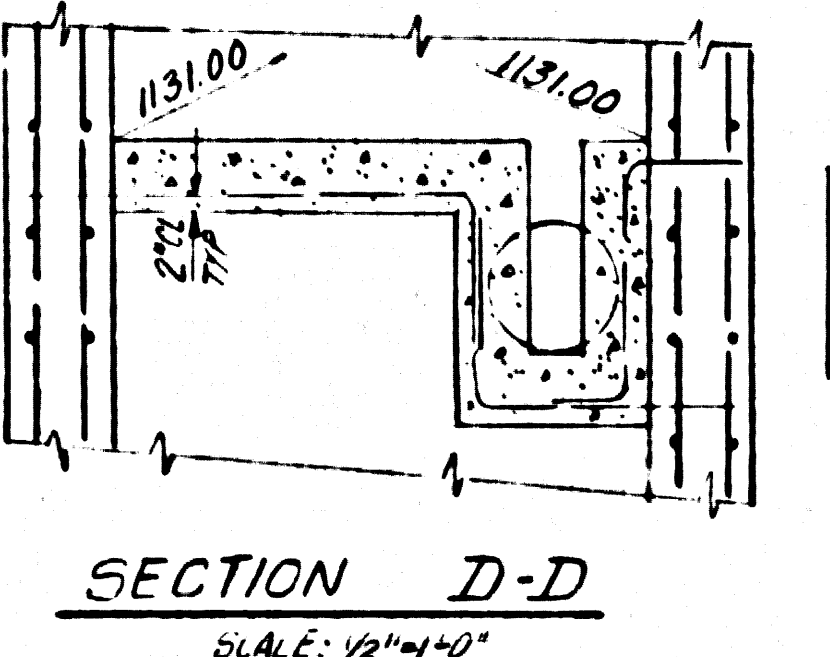
APPROVALS	
L.A. County Dept. of Parks and Recreation	Date:

McINTIRE QUIROS
PLANNING & ENGINEERING
670 MONTEREY PASS ROAD
MONTEREY PARK, CALIF.
213-283-7661

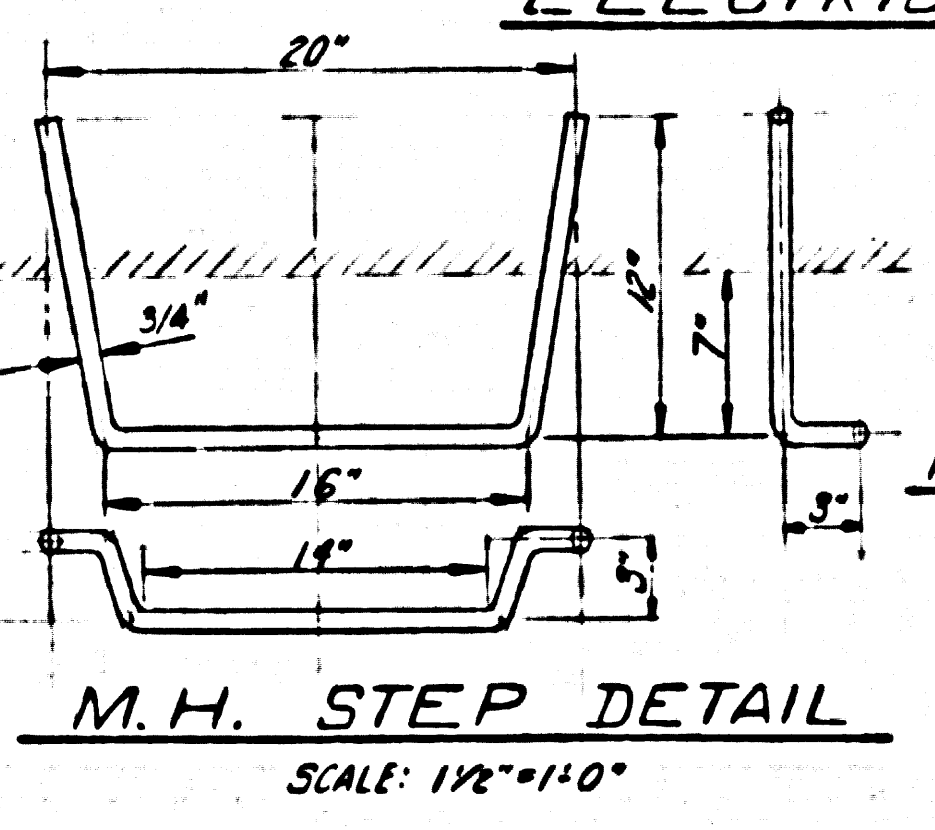
SPEC. NO. 3183
CAP. PROJ. NO. 9940-02
JOB NO. 5400
DATE
SCALE
HORIZ. 1"=50', VERT. 1"=10'
SHT. 31 OF 37 SHTS.



- NOTES
1. ALL CONDUIT SHALL BE RIGID STEEL GALVANIZED
 2. MOUNT CONDUIT ON WALLS OR CEILING, EXCEPT AS SHOWN
 3. ALL CONDUIT FITTINGS AND JUNCTION BOXES SHALL BE CAST METAL THREADED NIBBS



ITEM NO.	QUANTITY	DESCRIPTION
1	2	30 HP motors, 480V, 1/2" flow, 1074 gpm, 175-5.0 ft.
2	2	Sewage pumps - Menck Model 6311M 2.5" P. or equal
3	2	6" Class 150 cast iron pipe suction and discharge piping
4	2	6" Ballonetric plug valves 100# opening
5	1	6" - 90° all pipe elbows, provide adjustable
6	1	8" Tee couplings with hanger bolts for vertical installation
7	3	8" Swing check valves w/outside lever and springs
8	2	8" x 8" tees
9	2	8" - 90° all
10	1	6" Ballonetric plug valve w/9" operating nut.
11	1	Mount in valve box. Provide trunnion key.
12	1	10" x 8" reducer.
13	1	Pre-pipe utility box 17" x 18" w/conc. lid.
14	1	50 gpm head = 20 ft.
15	1	1-1/4" GIP sum pump discharge line.
16	2	1-1/4" check valves.
17	1	1-1/4" gate valve
18	1	Demulsifier.
19	1	Ventilating blower and motor 1/4" S.P. An = 585 cfm.
20	1	5 HP compressor w/100 psi, 80 gal. tank, belt & drive gear, Pulney 8-240 or equal. Can = 22.2 cfm.
21	1	3/4" GIP Air injection line with coupling, tap in 8" C.I.P. discharge line.
22	1	3/4" 11" check valve
23	1	3/4" globe valve.
24	1	3/4" G.I.P. pump vent line.
25	2	3/4" gate valves.
26	1	Elec. cabinet and control panel.
27	1	Bubbler air line 3/8" polyethylene secure to wall with stainless steel clamps.
28	1	Manhole frame and cover per S-15.
29	1	Metal double door & frame.
30	1	Window, casement type w/inside operating roto and wire glass.
31	5	150 watt. vapor proof lights complete with heavy globe and guards.
32	2	Surface mounted fluorescent fixture Type "L"
33	1	High water alarm, horns and red light.
34	1	3/4" needle valve on air line.
35	1	6" vent pipe with pipe strap
36	1	Standby generator Kohler Model 65072 or equal.
37	2	65 hp, 480V, 3 Phase, 3 Wire, 7" hertz.
38	1	8" ballonetric plug valves, 100# opening
39	1	6" Class 150 cast iron pipe, discharge piping
40	1	8" x 8" x 6" Reducing Tee
41	1	6" - 90° Ell
42	1	1" Backflow Preventer, Clayton Model D or equal
43	1	Manhole Steps per details herein
44	1	Preformed 6" Parshall Flume Liner
45	1	3/2" Service Saddle, Sells-Hair 113 or equal
46	2	4" x 6" Concentric Reducers
47	1	Steel Bracket, Crinnell No. 1-Flr. 195
48	1	6" base tile



NOTE:
3/4" x 6" STEEL CONFORMING TO A.S.T.M. A15 OR A107 GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH A.S.T.M. A123 OR EQUAL.

NOTE:
NO TEST BORING DATA ON SOIL OR GROUND WATER CONDITIONS IS AVAILABLE FOR THIS SITE. NO EXTRA PAYMENT FOR WORK WILL BE ALLOWED FOR CONSTRUCTION DIFFICULTIES CAUSED BY GROUND WATER OR OTHER SUBSURFACE CONDITIONS.

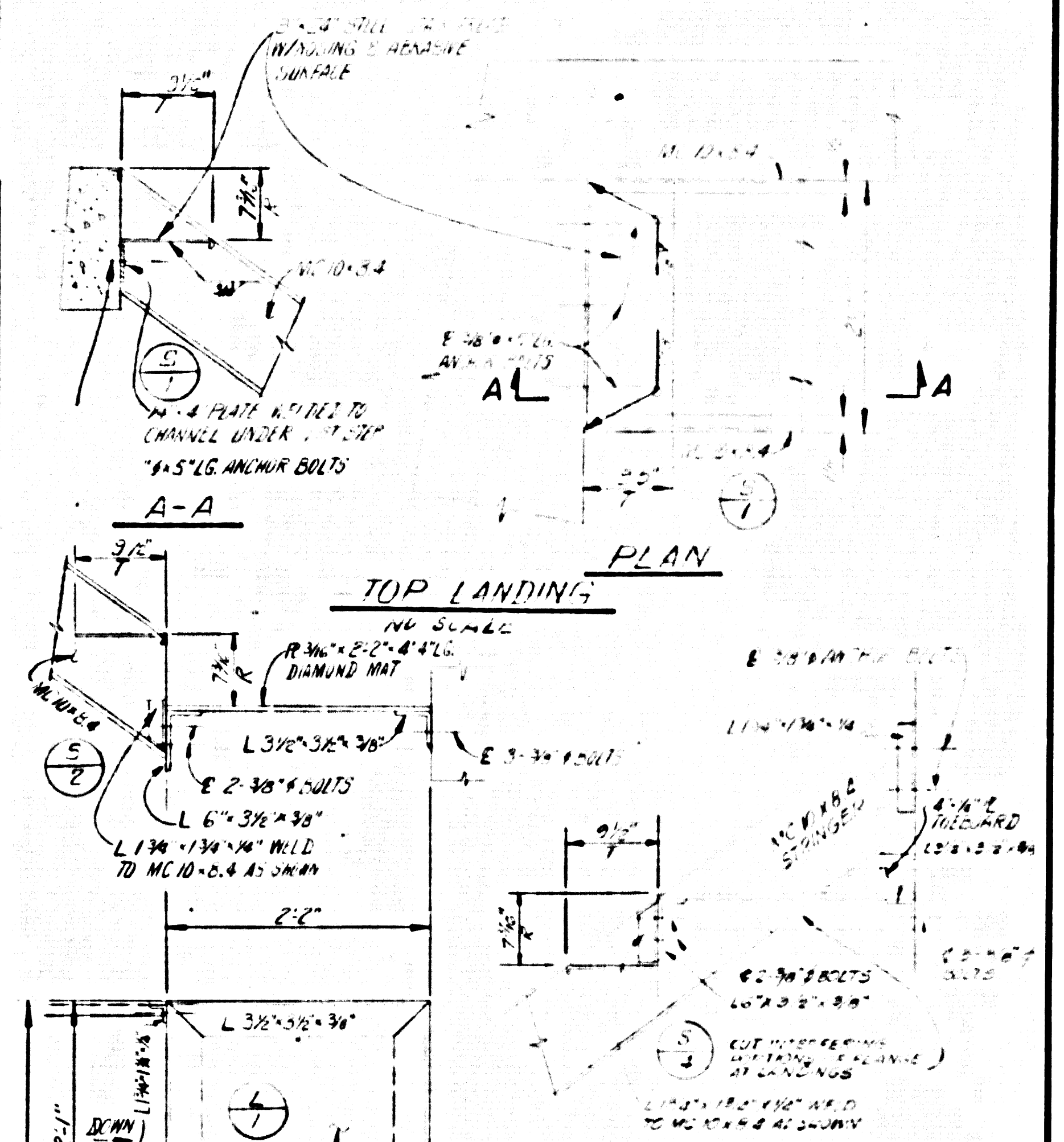
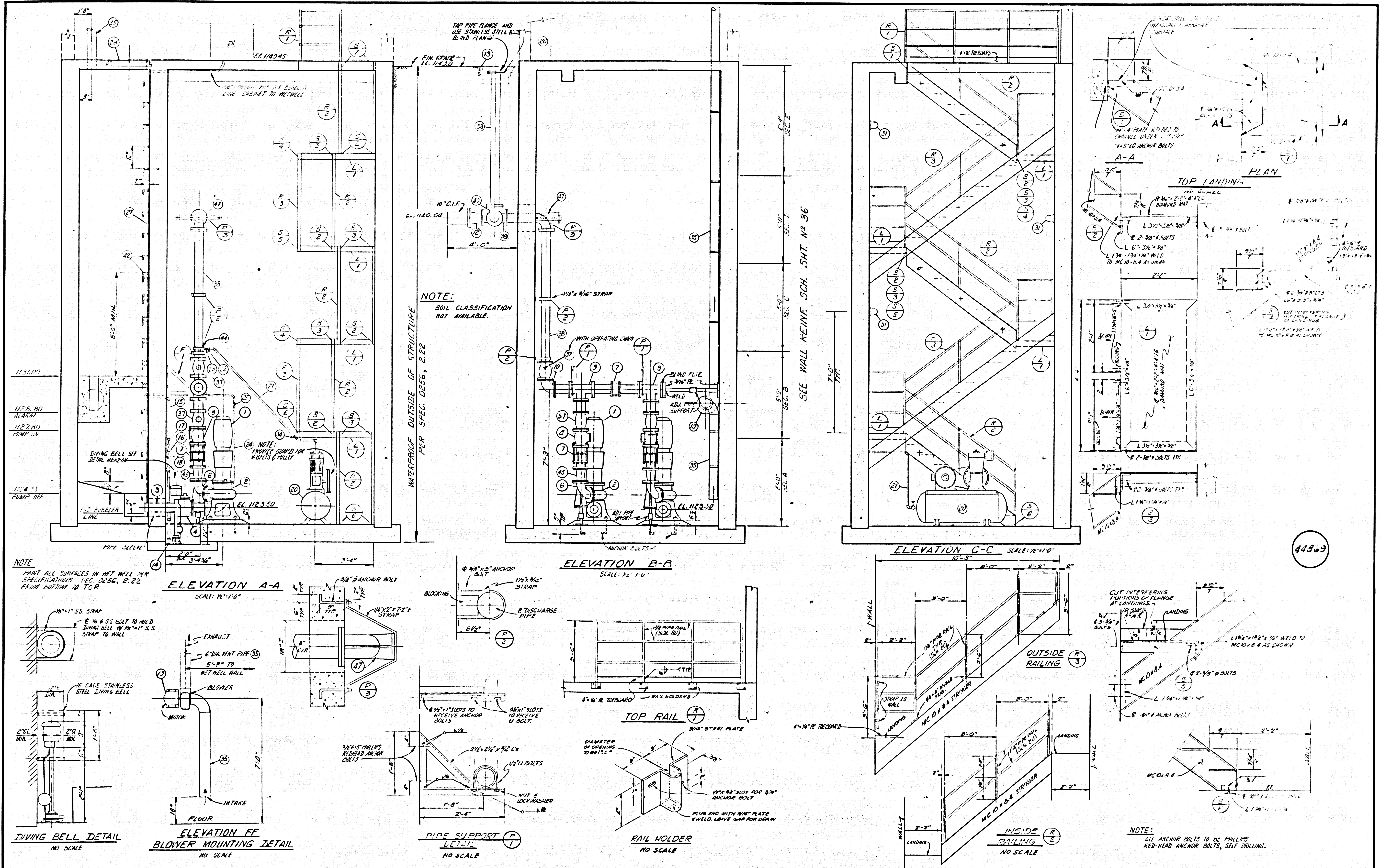
REVISIONS			
No.	Date	Description	Appr.

SEWAGE PUMP STATION NO. 1
GENERAL DEVELOPMENT, AFTERBAY
CASTAIC LAKE
STATE AND COUNTY REGIONAL PARK

APPROVALS
L.A. County Dept. of Parks and Recreation
Date: _____

MCINTIRE QUIROS
PLANNING & ENGINEERING
670 MONTEREY PASS ROAD
MONTEREY PARK, CALIF.
213 283-7661
Ronald W. Hoag, P.E. 17000

WELL NO. 3183
CAP PROJ NO. 9940-02
JOB NO. 5400
DATE _____
SCALE _____
SHEET 32 OF 37 SHEETS



44969

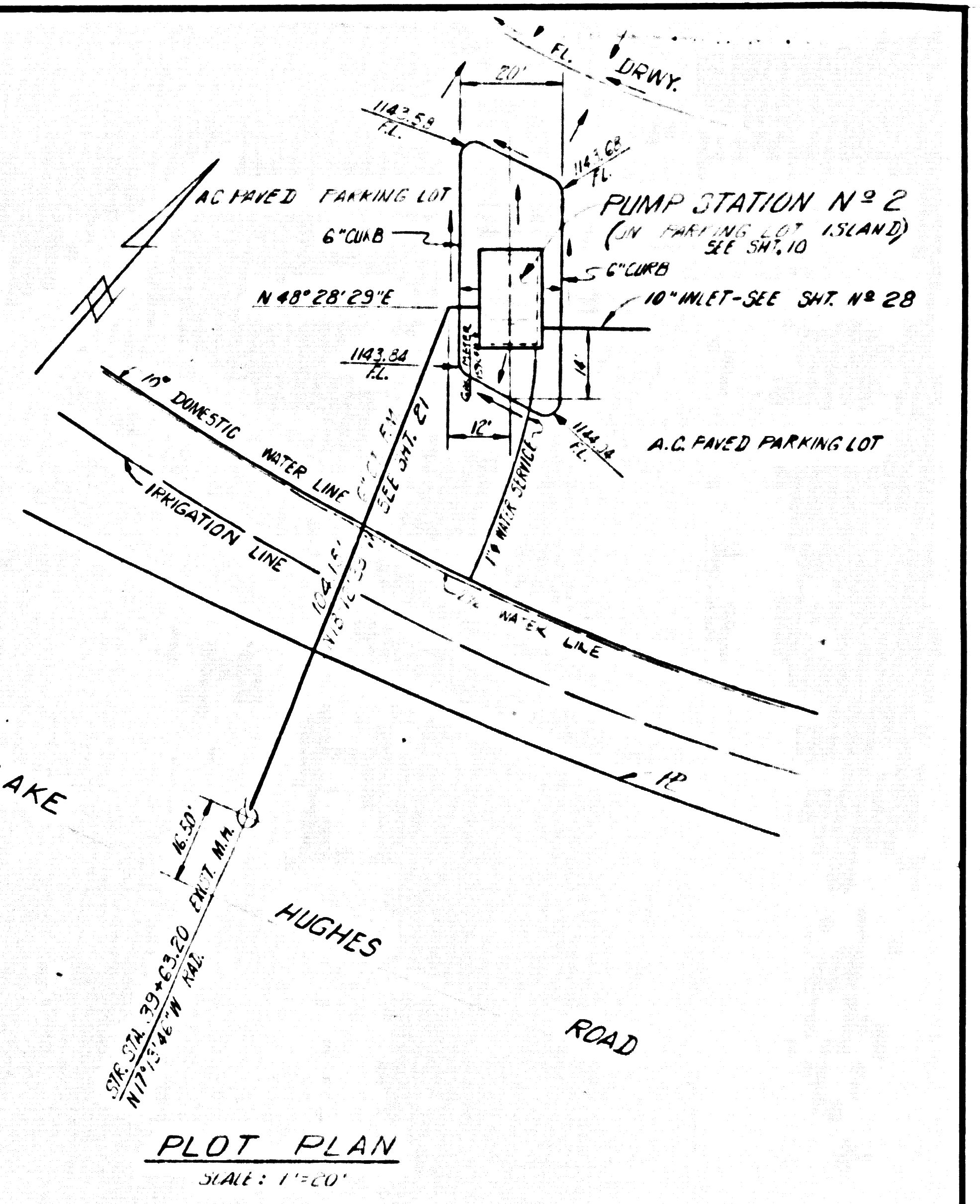
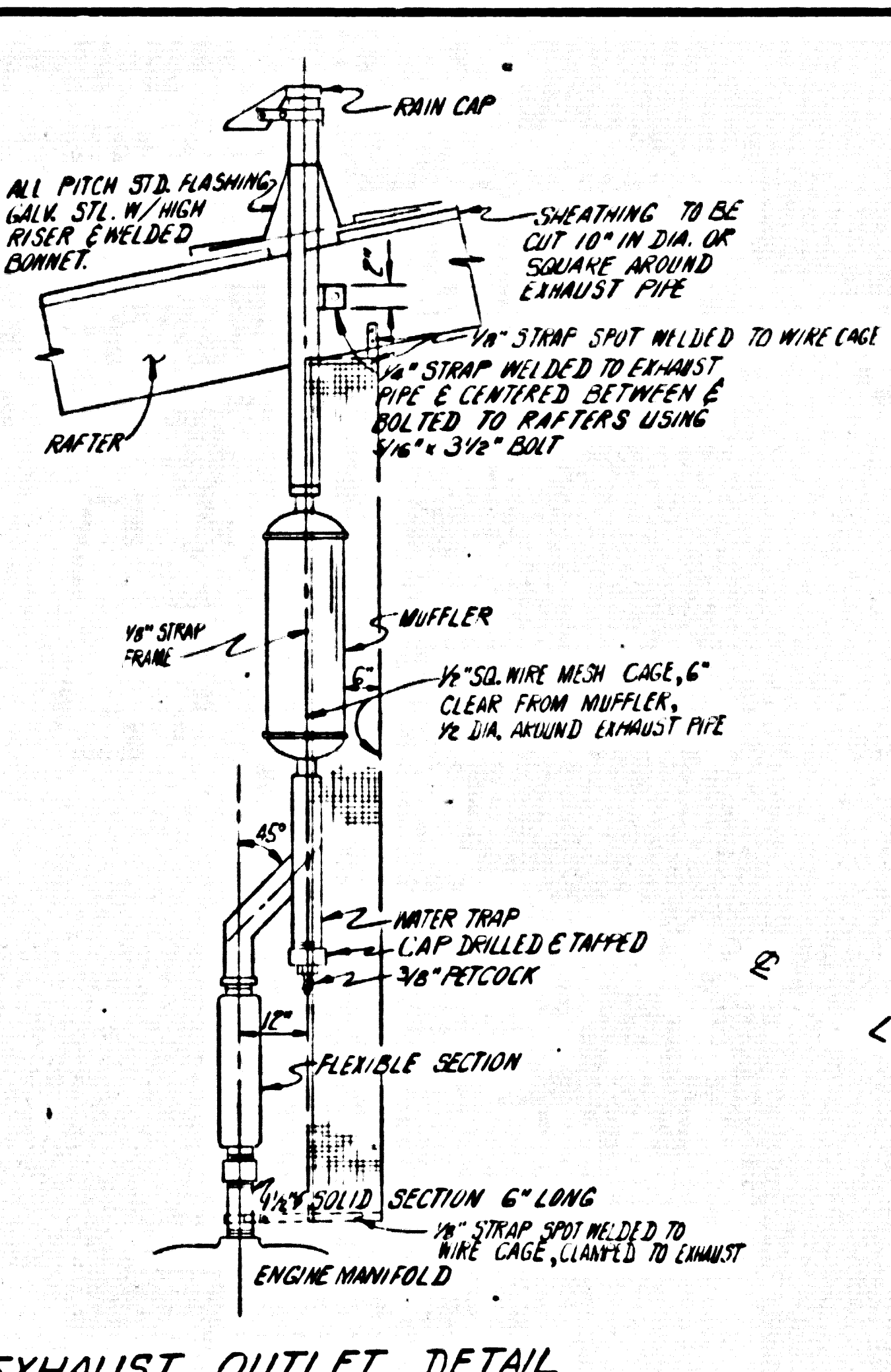
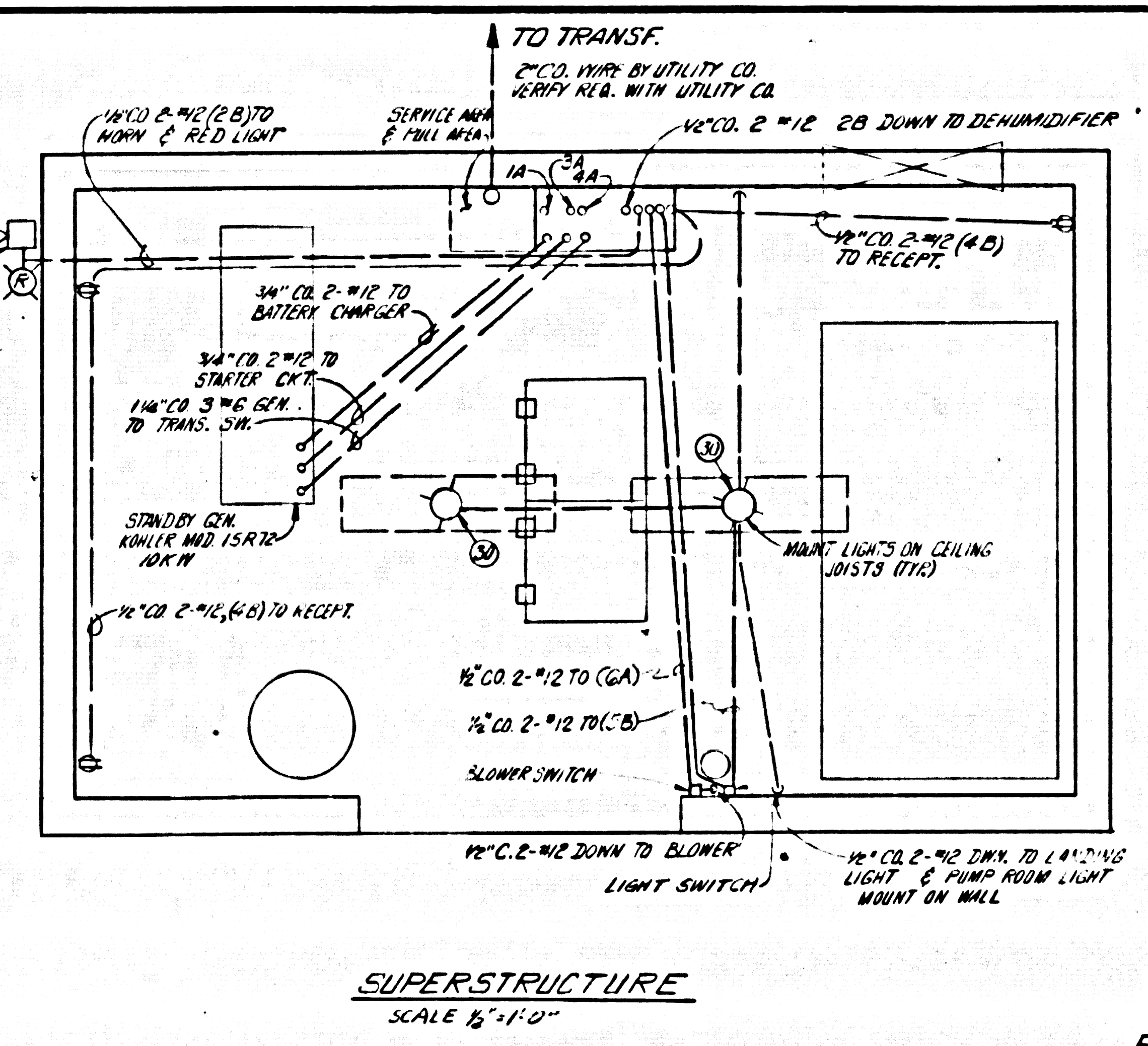
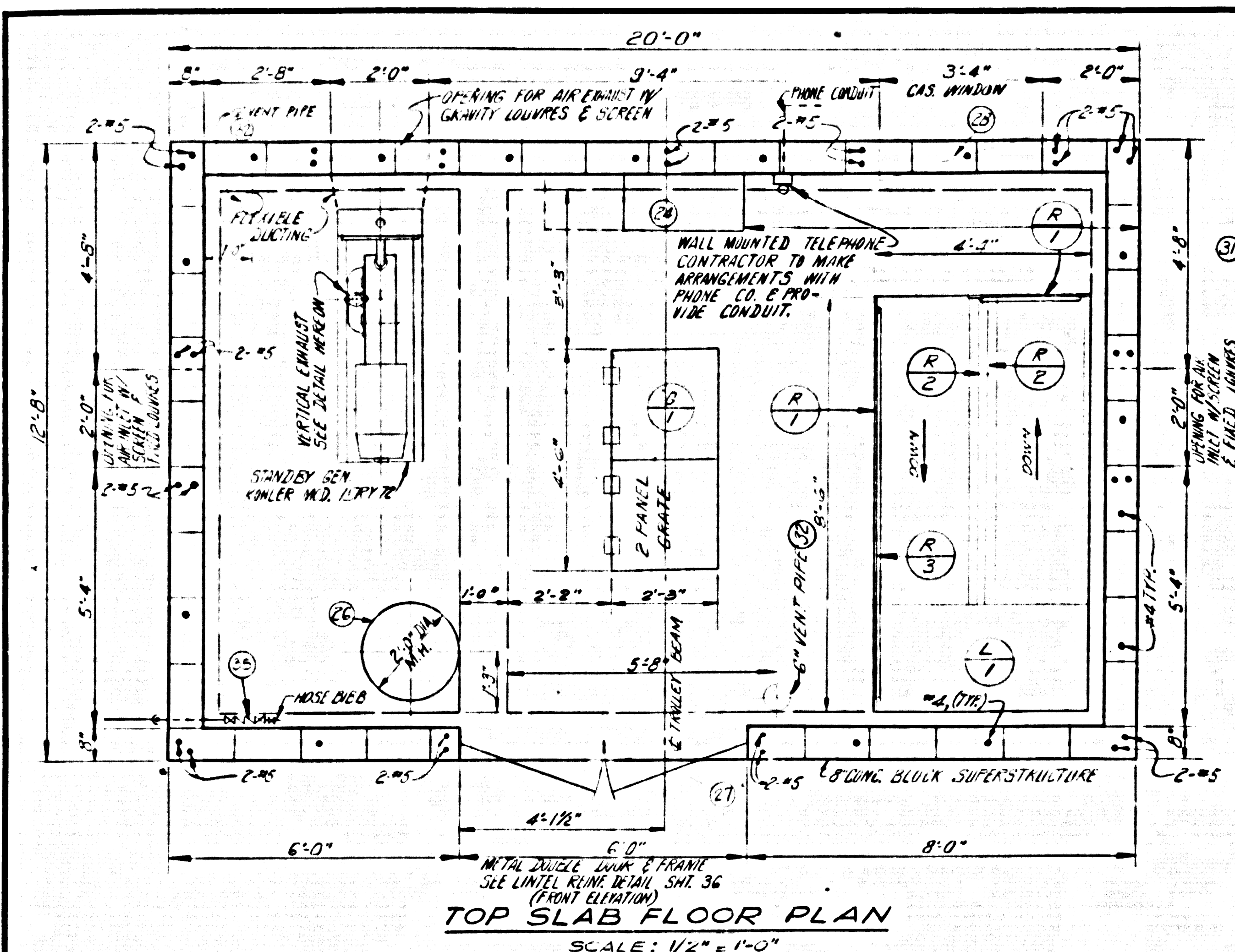
REVISIONS			
No.	Date	Description	Appr.

SEWAGE PUMP STATION NO. 1
 GENERAL DEVELOPMENT, AFTERBAY
CASTAIC LAKE
 STATE AND COUNTY REGIONAL PARK

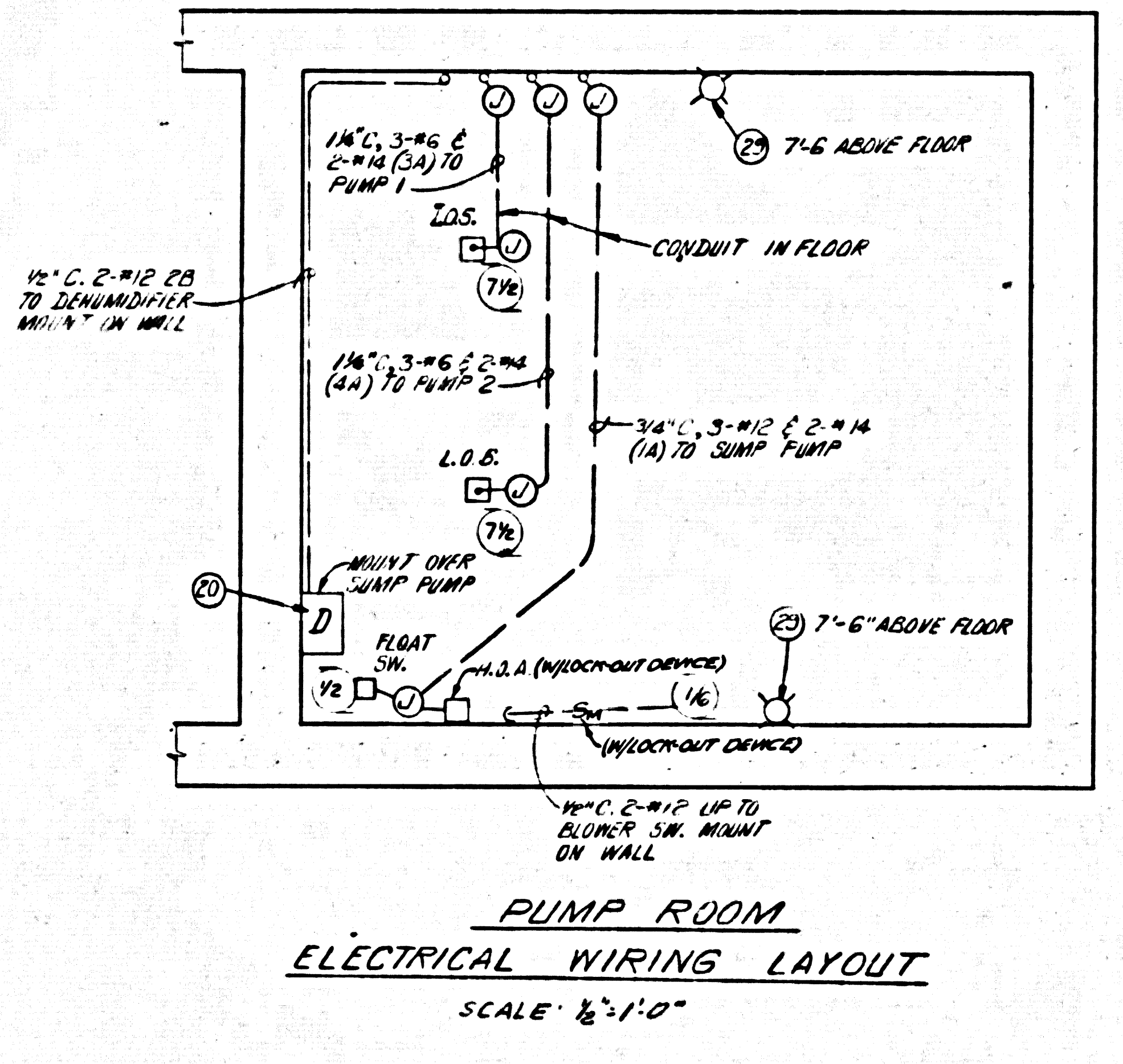
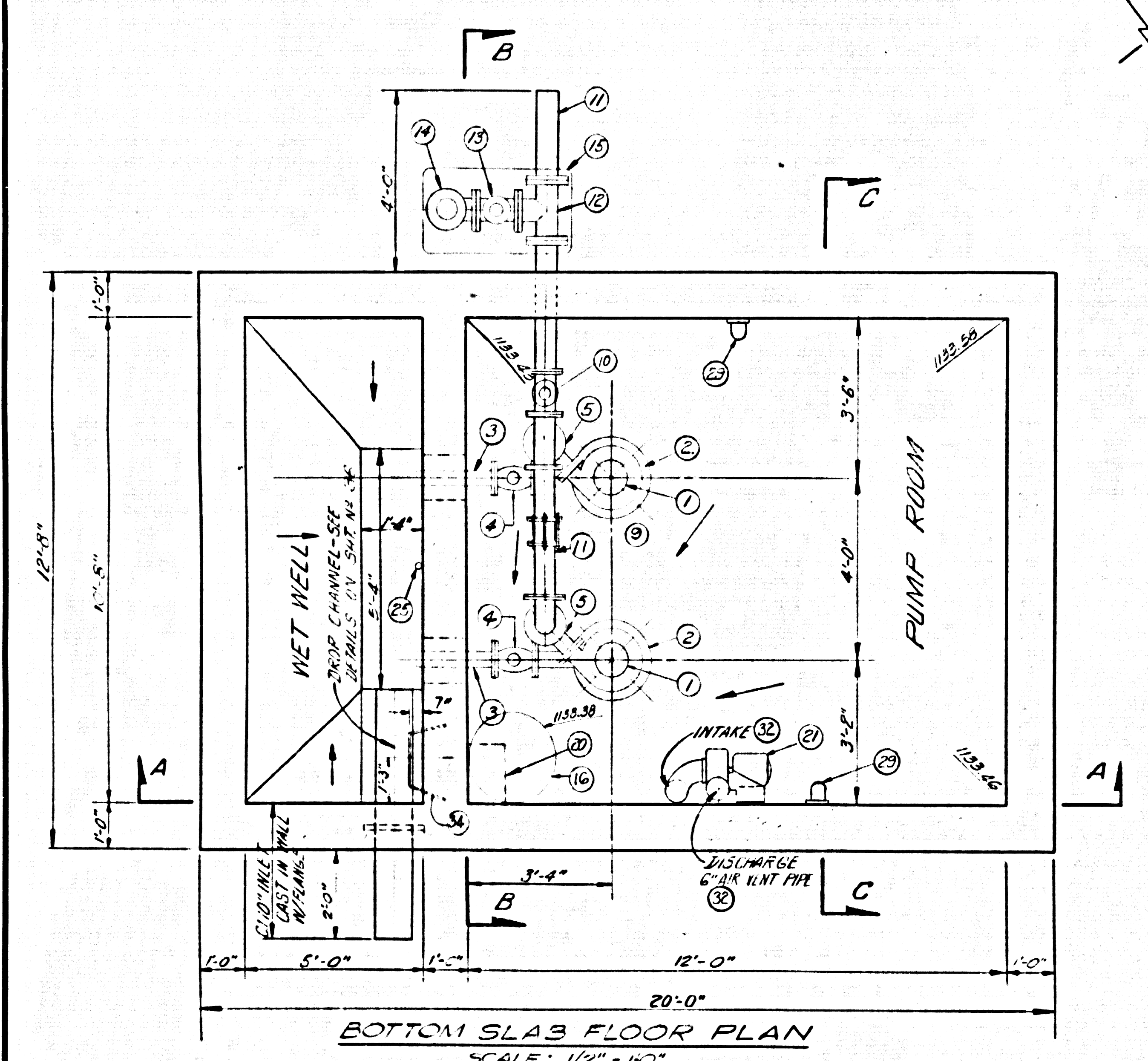
APPROVALS
 L.A. County Dept. of Parks and Recreation Date: _____

McINTIRE QUIROS
 PLANNING & ENGINEERING
 670 MONTEREY PASS ROAD
 MONTEREY PARK, CALIF.
 213-283-7661
Final R. 7/20/00 R.C.E. 17/00

SHEET NO. 3183
 CAP PROJ NO. 9940-02
 JOB NO. 5400
 DATE _____
 SCALE _____
 SHEET 33 OF 37 SHEETS



- NOTES
1. ALL CONDUIT SHALL BE RIGID STEEL, GALVANIZED.
 2. MOUNT CONDUIT ON WALLS OR CEILING, EXCEPT AS SHOWN.
 3. ALL CONDUIT FITTINGS AND JUNCTION BOXES SHALL BE CAST METAL WITH TAPERED NUTS.



ITEM NO.	QUANTITY	DESCRIPTION
1	2	7-1/2 HP motor, 208V, 3φ
2	2	Sevcon pumps-Memco Model 411M, P.I.P. or equal, flow = 165 gpm, T.H. = 75.0 ft.
3		4" Class 150 cast iron pipe suction and discharge piping.
4	4	6" Ballcentric plug valves 100# opening
5	2	4" - 90° elbows w/have, provide adjustable pipe support under ell to floor.
6	2	4" Dresser couplings with hanover bolts
7	2	4" wing check valves w/outside lever and spring.
8	2	6" X 6" X 4" tees
9	1	6" Dresser coupling
10	1	6" Ballcentric plug valve
11	1	6" Class 150 cast iron pipe
12	1	6" X 6" X 6" tee
13	1	6" Ballcentric plug valve w/3" operating nut. Mount in valve box. Provide turning key.
14	1	6" - 90° ell
15	1	Pre-cast utility box 17" X 19" w/conc. lid.
16	1	Sump pump 1/2 HP 208V, 3φ with diving bell.
17	1	50 gpm, 20 ft. head
18	2	1-1/4" check valves
19	1	1-1/4" gate valve
20	1	Dehumidifier
21	1	Ventilating blower and motor 1/6 HP Cap#55 cfm
22	1	3/4" G.I.P. mump vent line
23	2	1/4" gate valves
24	1	Elec. Cabinet and control panel
25	1	Bubbler air line 1/8" polyethylene, secure to wall with stainless steel clamp.
26	1	Manhole frame and cover per S-35
27	1	Metal double door & frame
28	1	Window, casement type w/inside operating roto and wire glass.
29	4	150 watt vapor proof lights complete with heavy globe and guards
30	2	Surface mounted fluorescence fixture Type "L"
31	1	High water alarm, horn and red light
32	1	6" ventilation pipe
33	1	Standby generator Kohler Model 15R72 or equal. 15-KW 208V, 3φ, 3W, 60 hertz
34	1	Manhole stems per detail on sheet 32
35	1	1" Backflow preventer, Clayton Model D or equal.

NOTE:
NO TEST BORING DATA ON SOIL OR GROUND WATER CONDITIONS IS AVAILABLE FOR THIS SITE. NO EXTRA PREVENTIVE WORK SHALL BE ALLOWED FOR CONSTRUCTION DIFFICULTIES CAUSED BY GROUND WATER OR OTHER SUBSURFACE CONDITIONS.

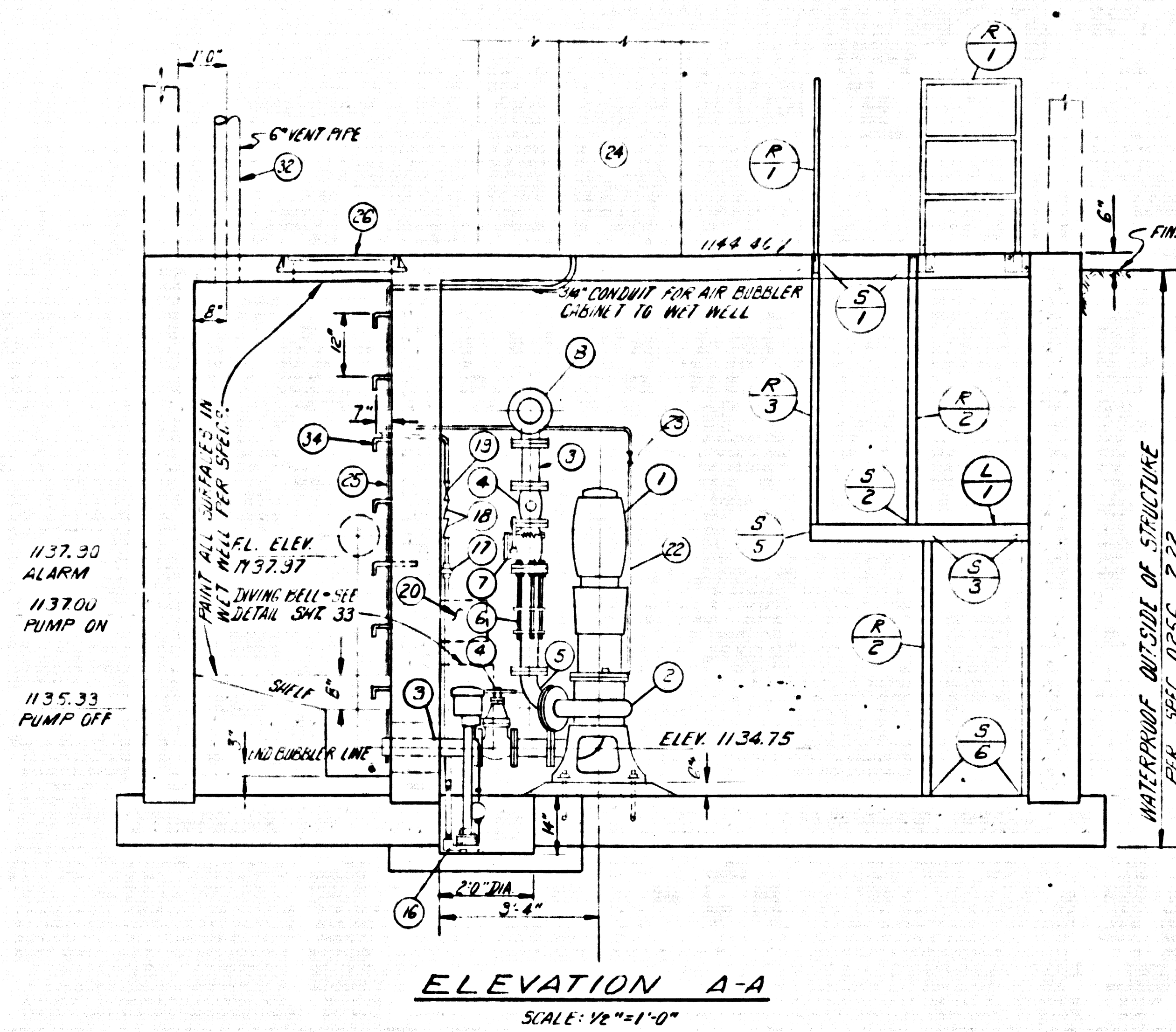
REVISIONS			
No	Date	Description	Appr.

SEWAGE PUMP STATION NO. 2
GENERAL DEVELOPMENT, AFTERBAY
CASTAIC LAKE
STATE AND COUNTY REGIONAL PARK

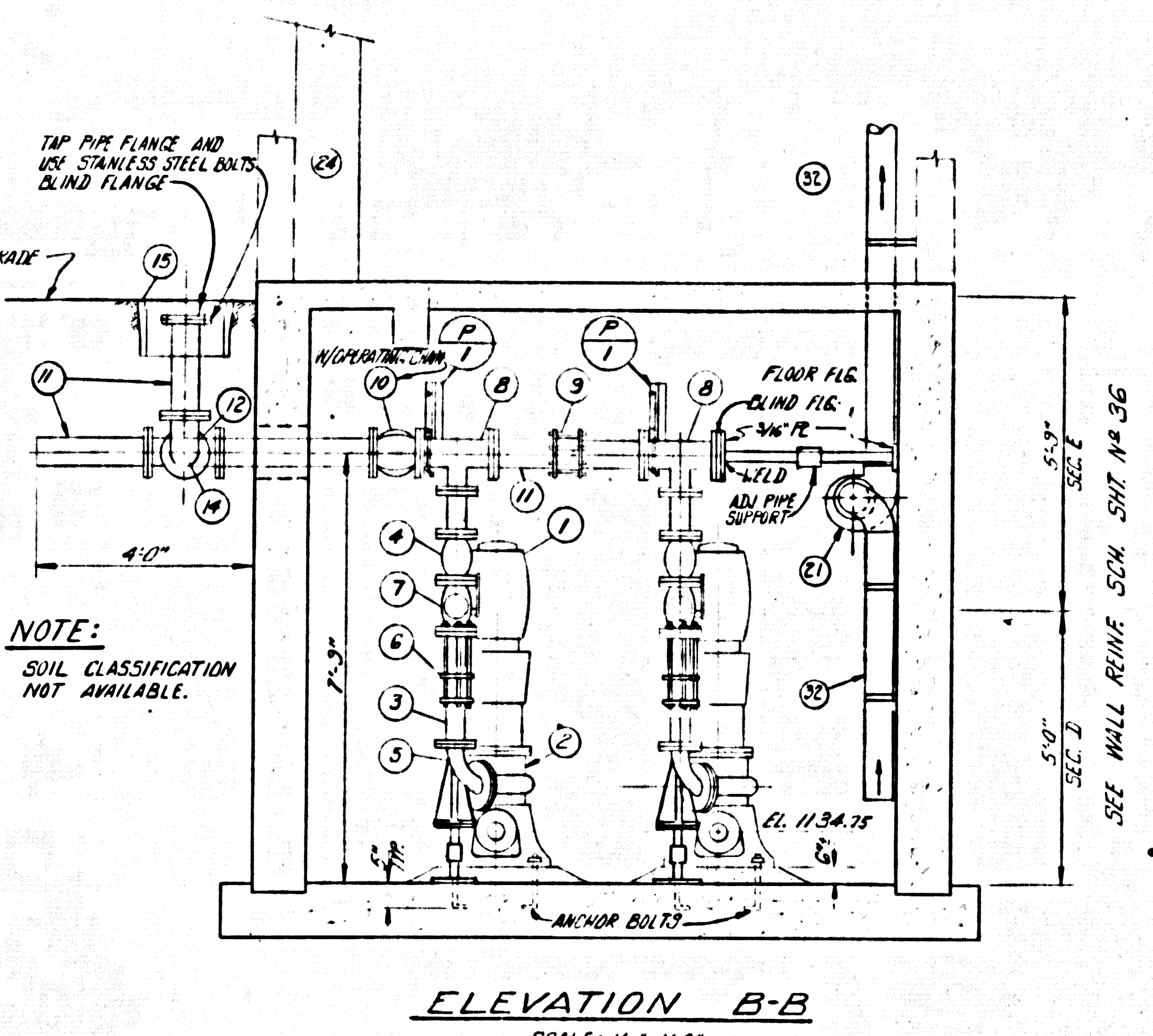
APPROVALS	
L.A. County Dept. of Parks and Recreation	Date:

McINTIRE QUIROS
PLANNING & ENGINEERING
670 MONTEREY PASS ROAD
MONTEREY PARK, CALIF.
213-283-7661
David L. Quiros

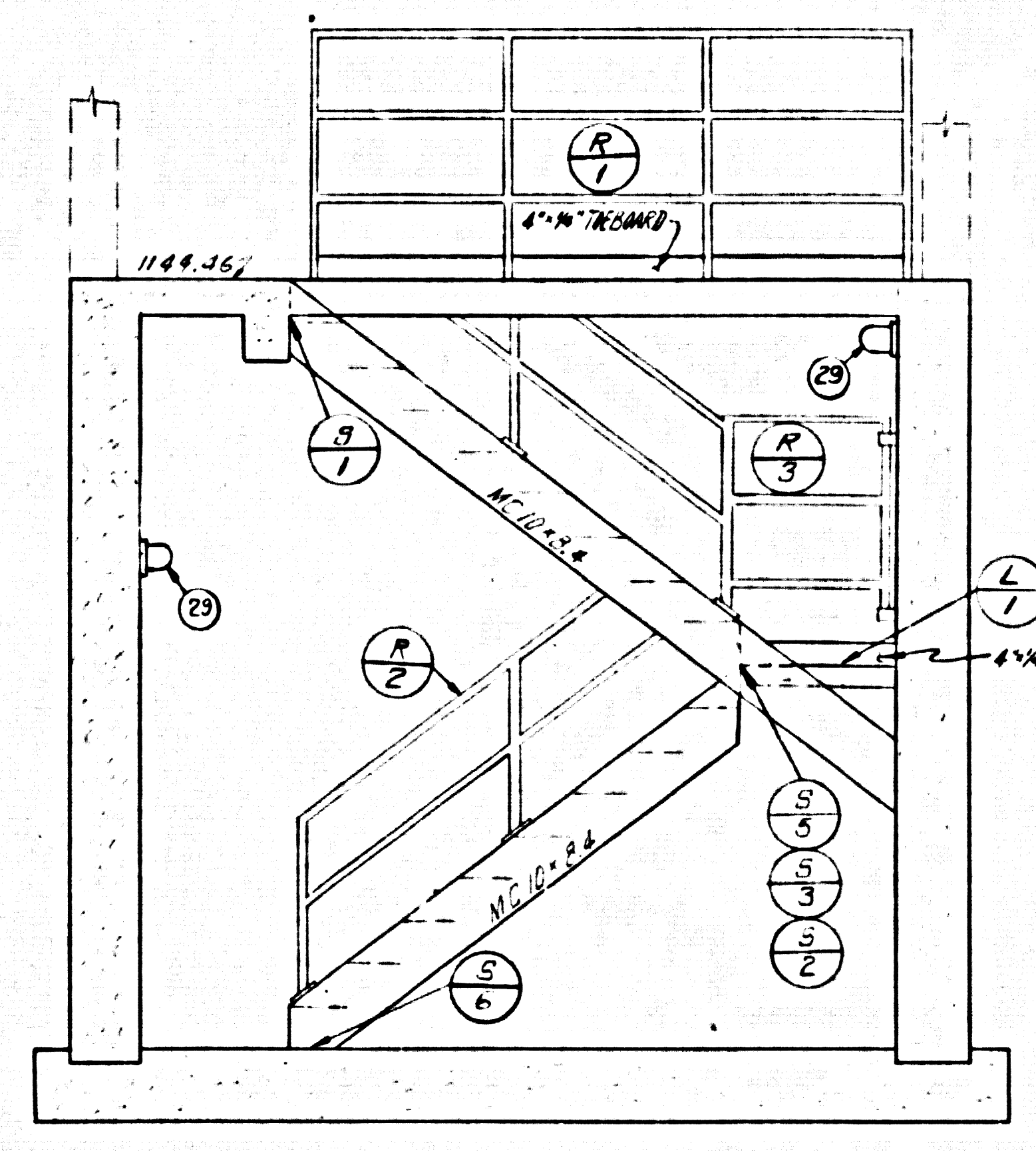
SPEC NO	3183
CAP PROJ NO	9940-02
JOB NO	5400
DATE	
SCALE	
SHEET 34 OF 37 SHEETS	



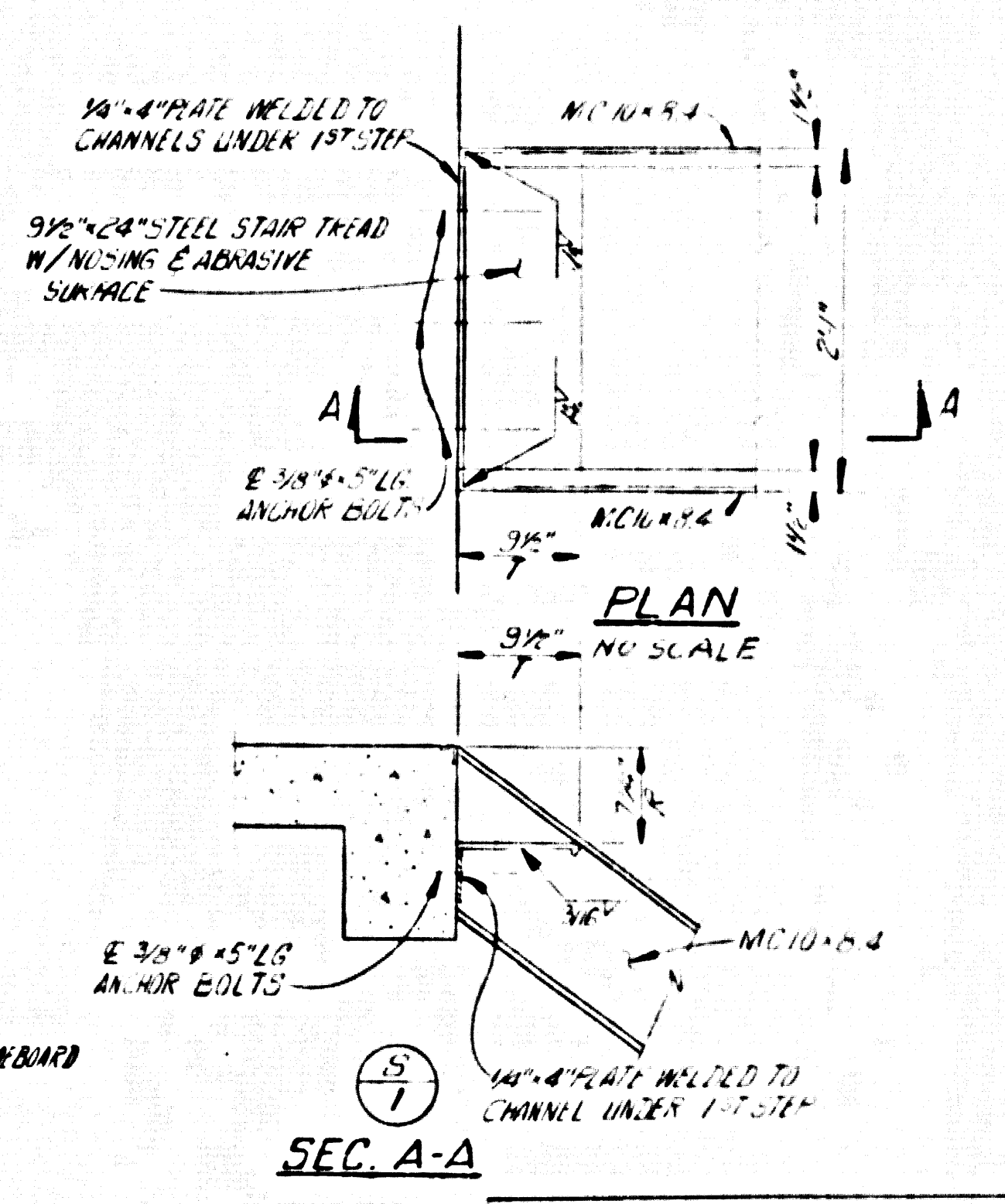
ELEVATION A-A
SCALE: 1/2"=1'-0"



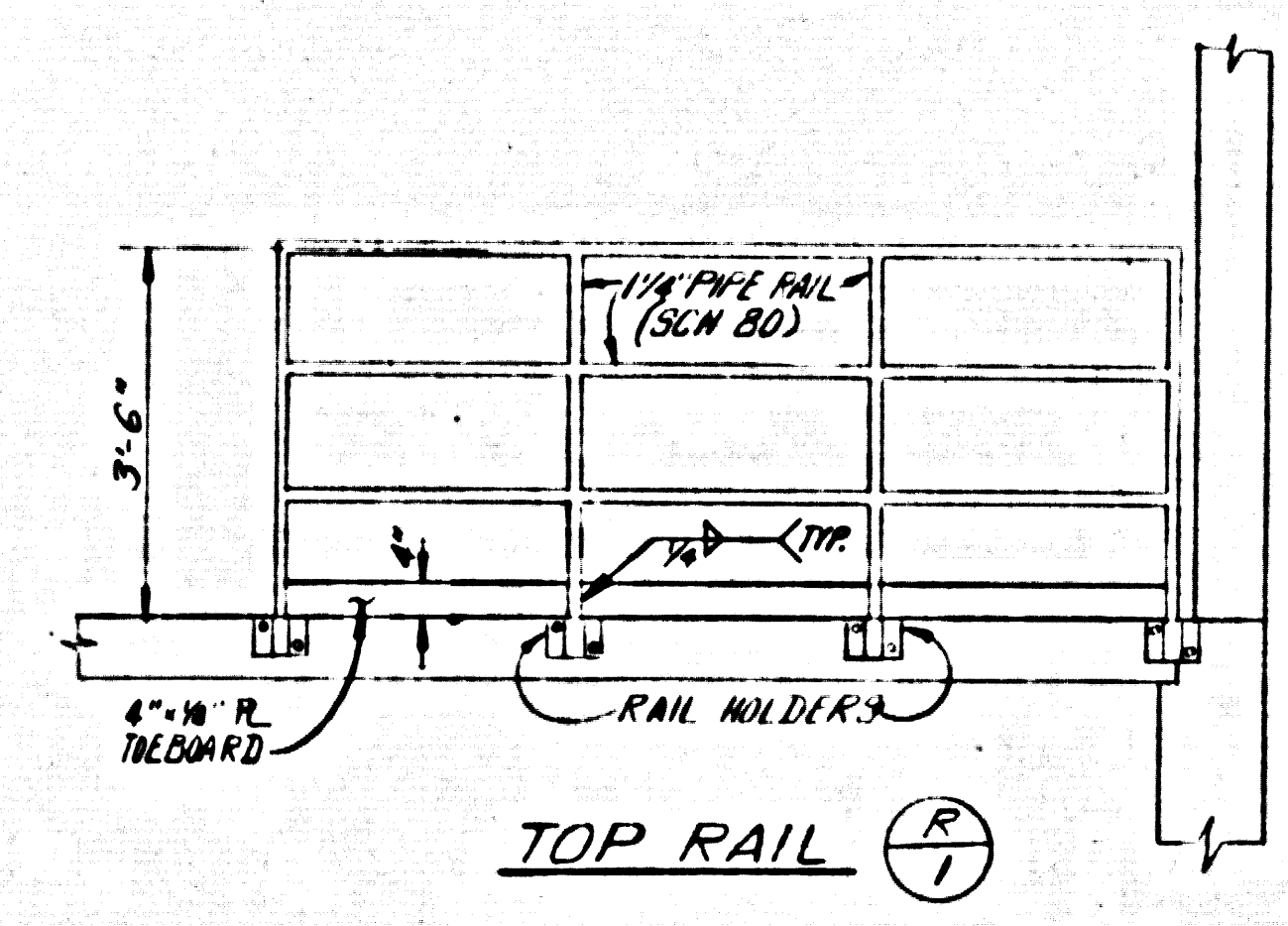
ELEVATION B-B
SCALE: 1/2"=1'-0"



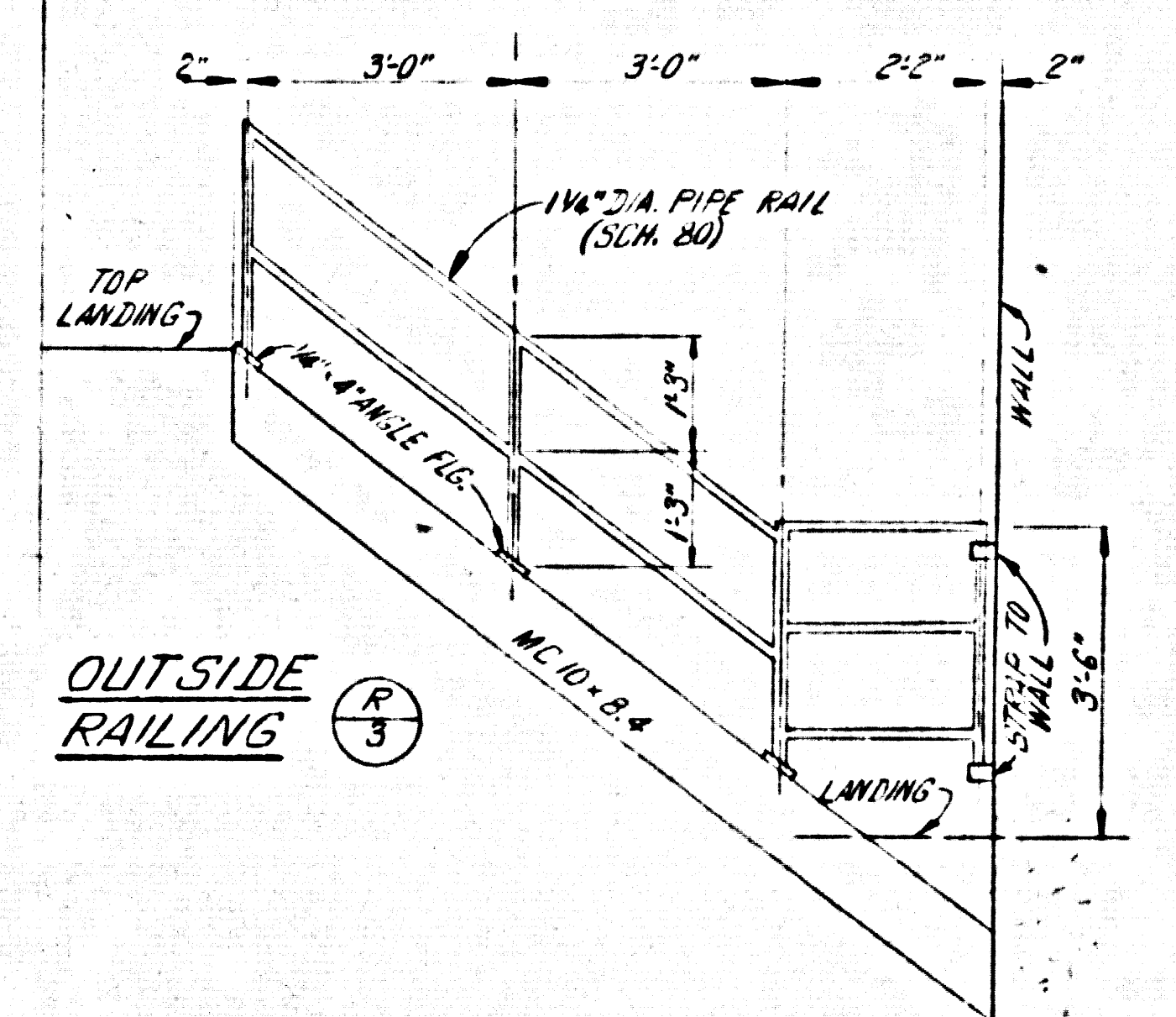
ELEVATION C-C
SCALE: 1/2"=1'-0"



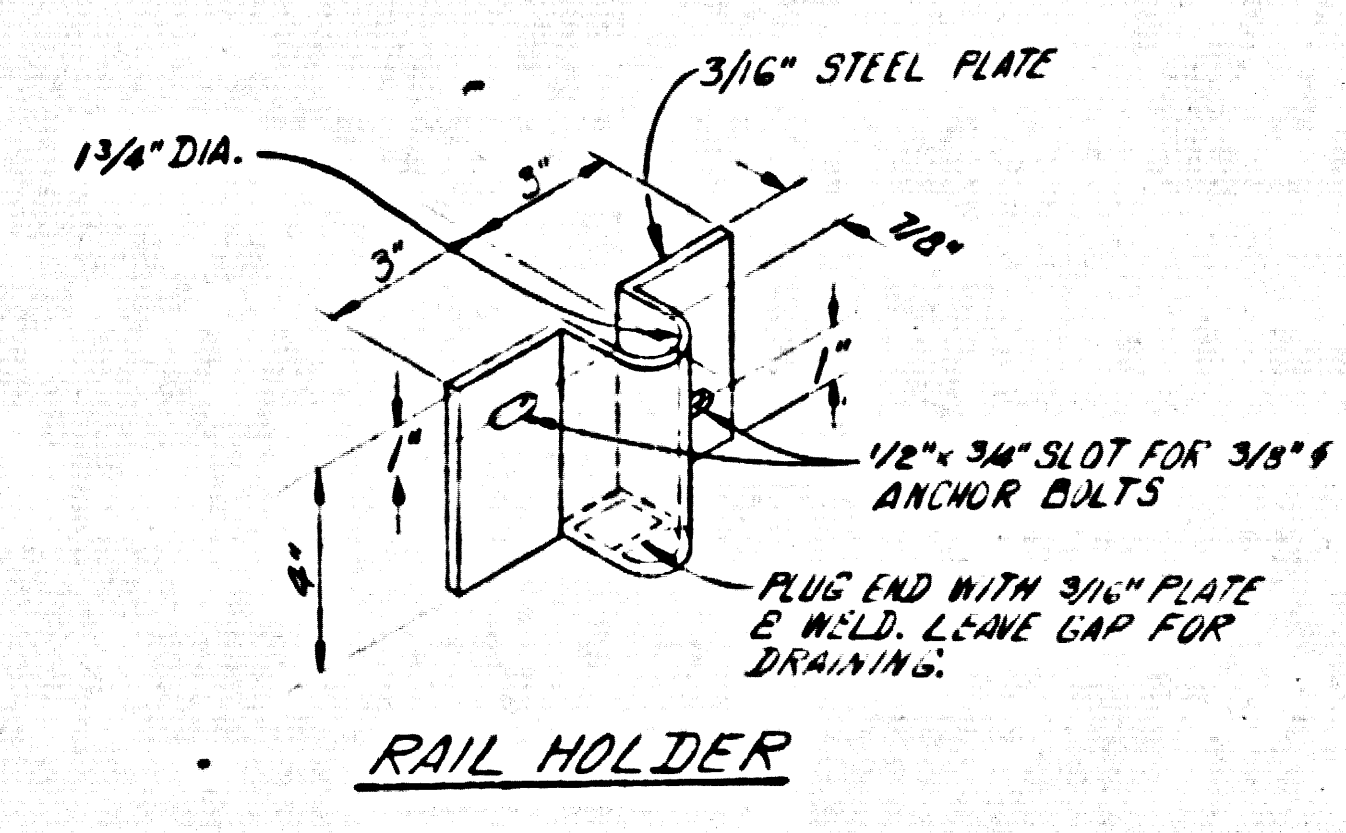
SEC. A-A



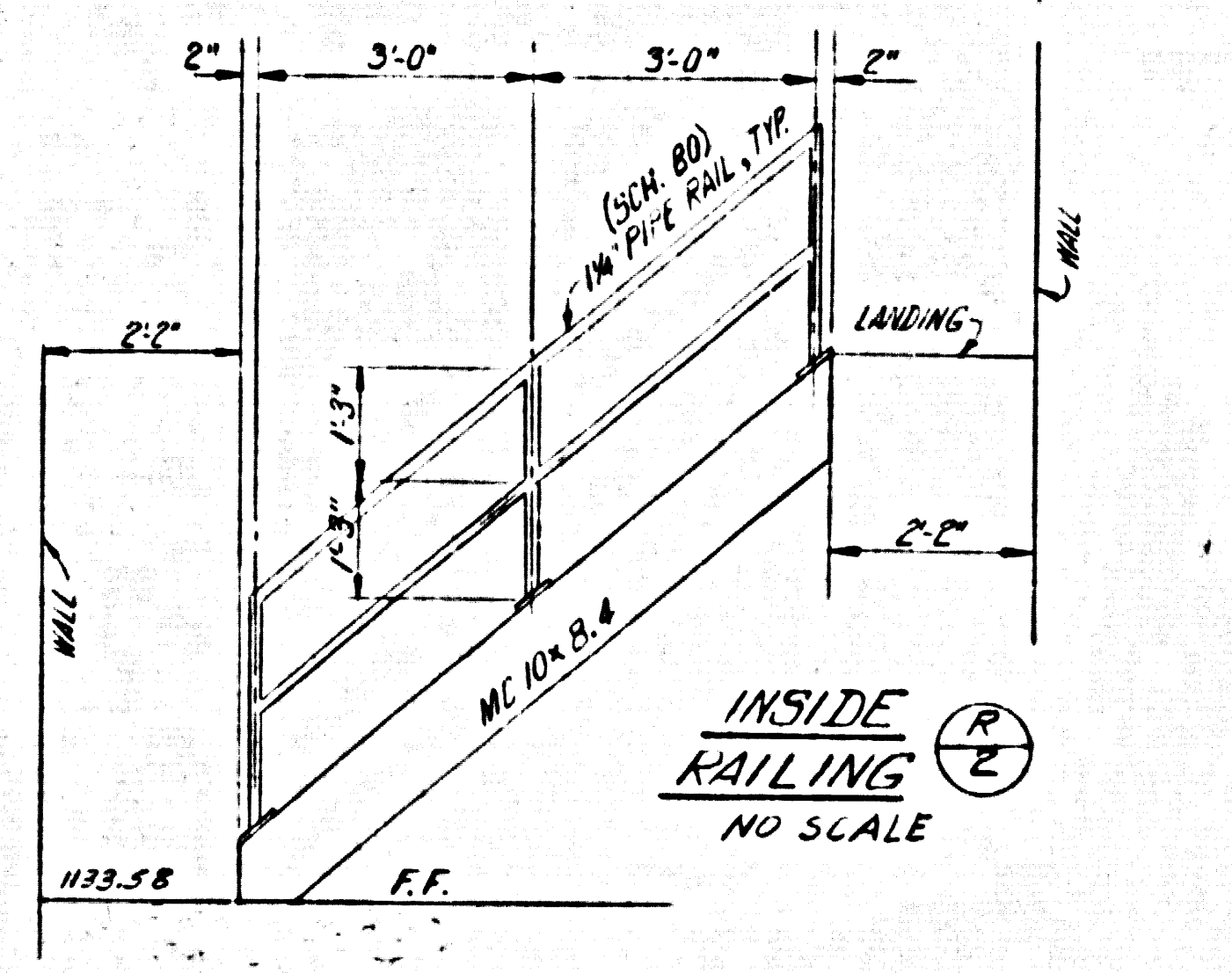
TOP RAIL



OUTSIDE RAILING

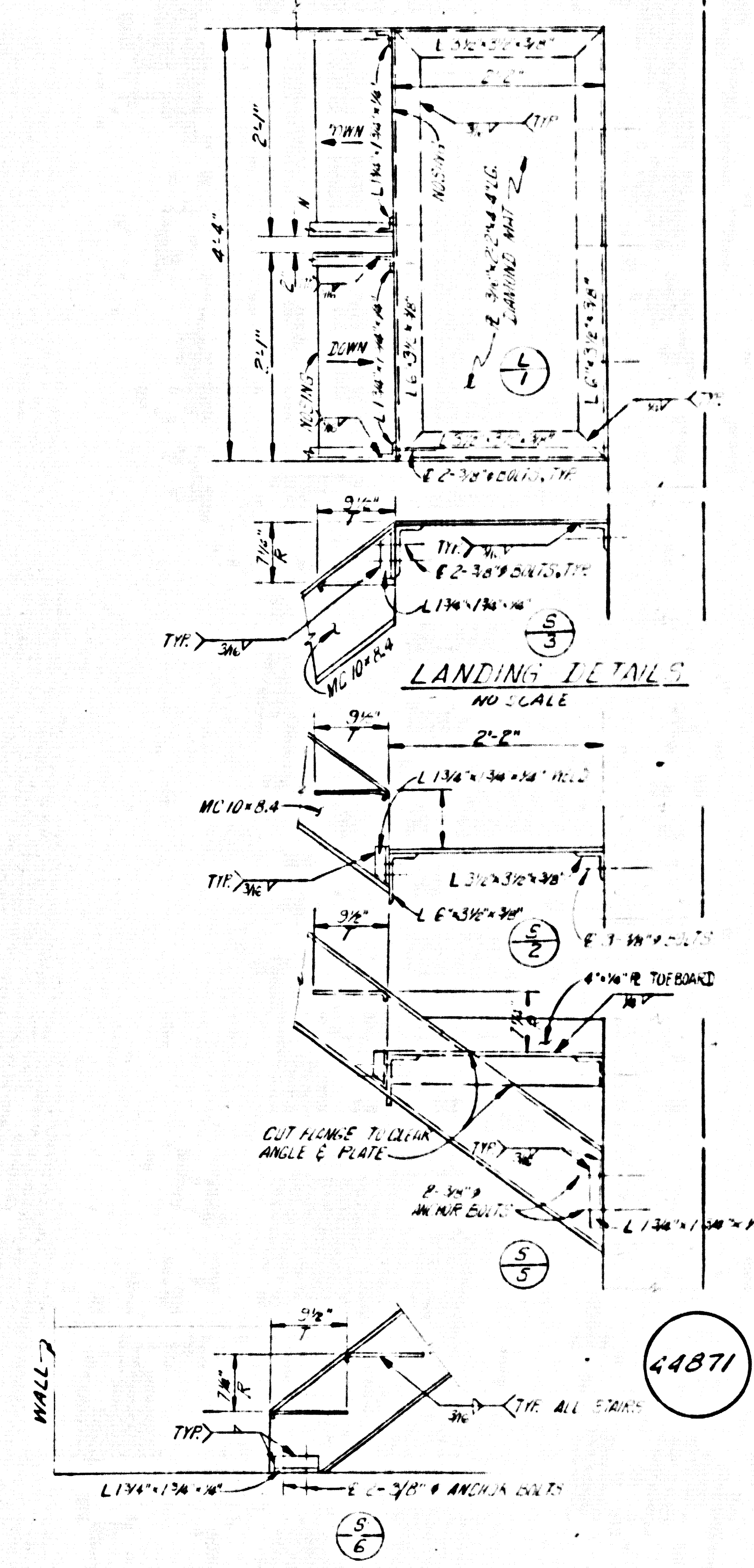


RAIL HOLDER

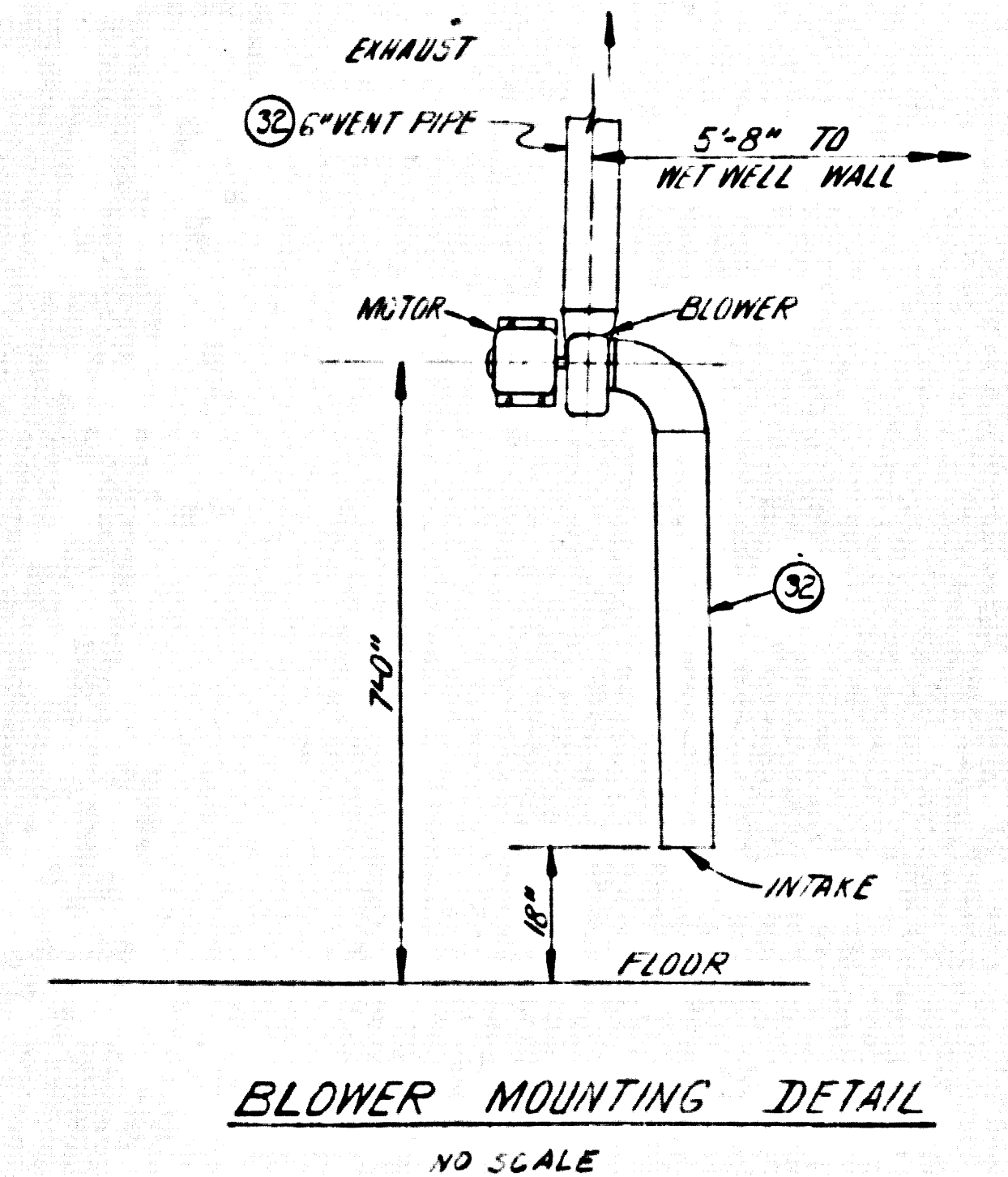


INSIDE RAILING

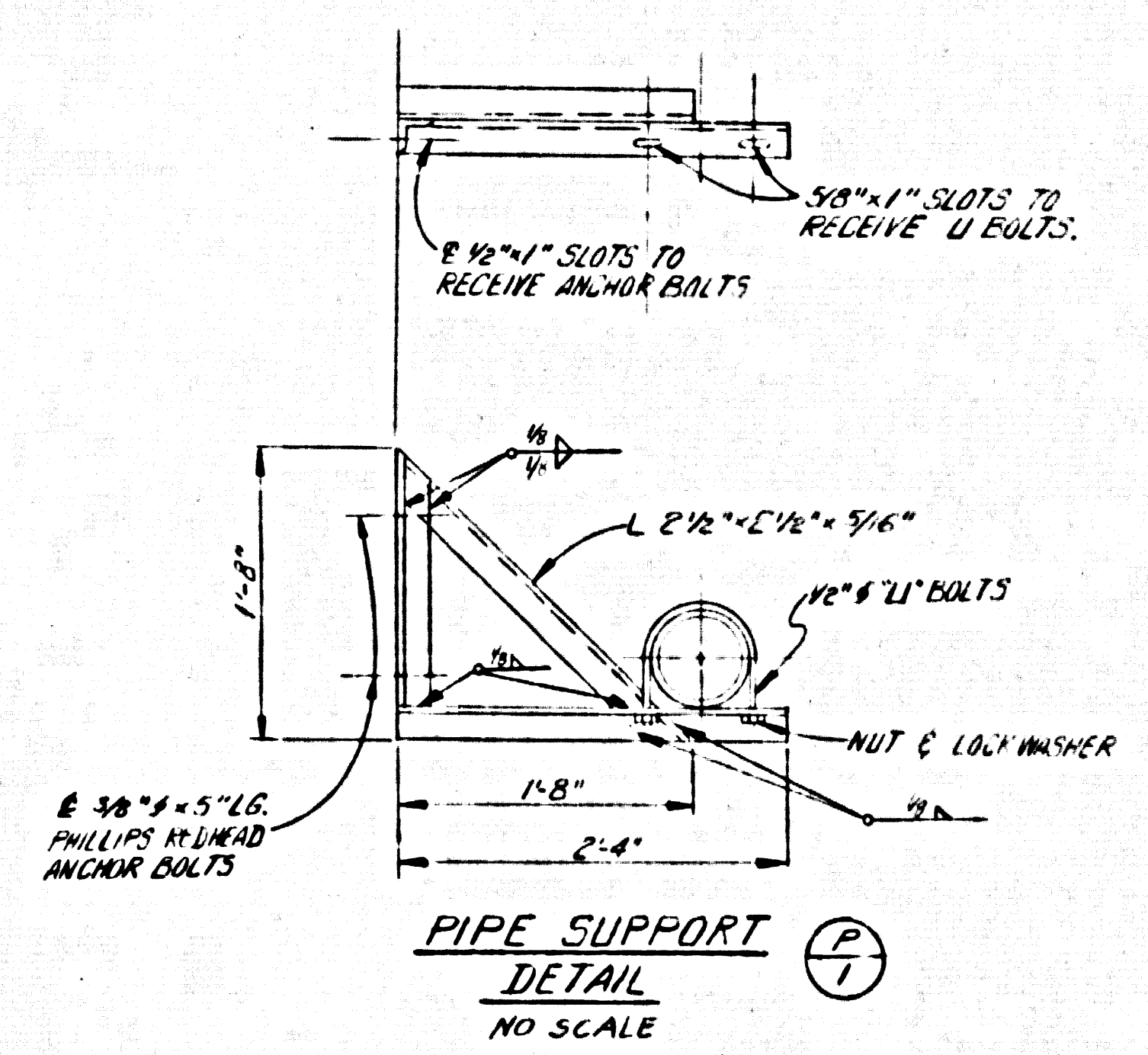
NOTE:
ALL ANCHOR BOLTS TO BE PHILLIPS REDWAD ANCHOR BOLTS, SELF DRILLING.



LANDING DETAILS



BLOWER MOUNTING DETAIL



PIPE SUPPORT DETAIL

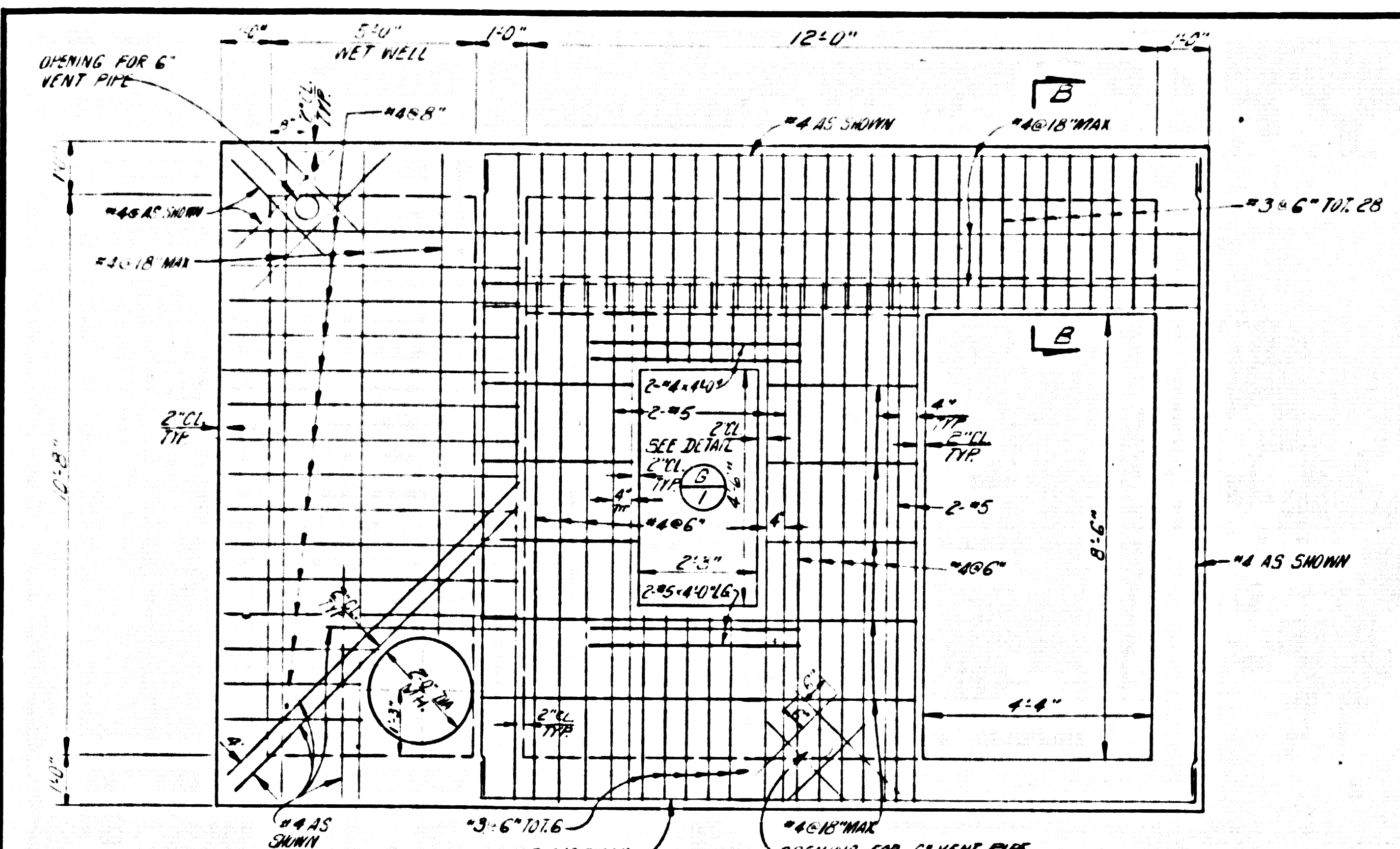
REVISIONS		
No.	Date	Description

SEWAGE PUMP STATION NO. 2
GENERAL DEVELOPMENT, AFTERBAY
CASTAIC LAKE
STATE AND COUNTY REGIONAL PARK

APPROVALS
L. A. County Dept. of Parks and Recreation
Date: _____

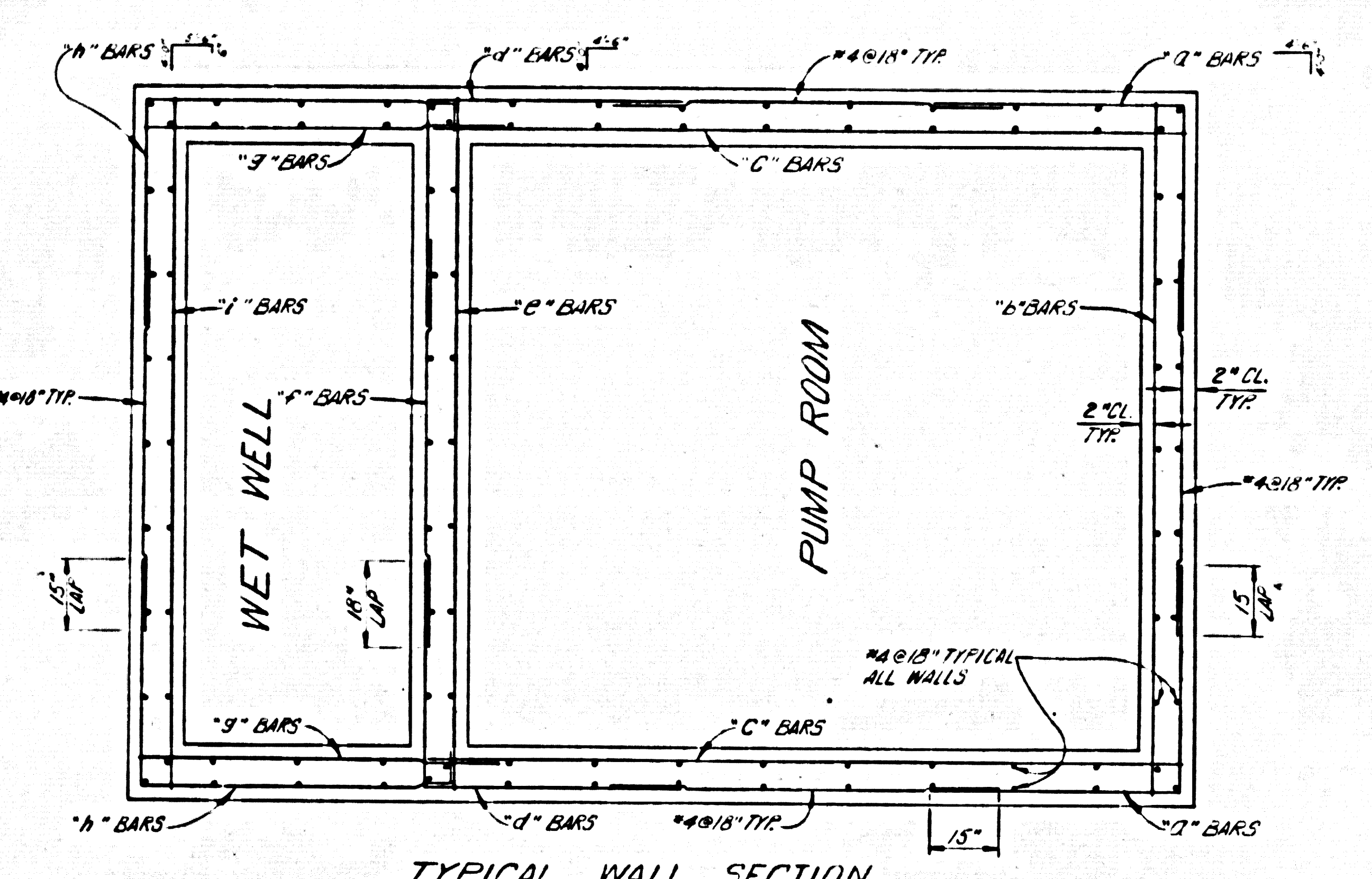
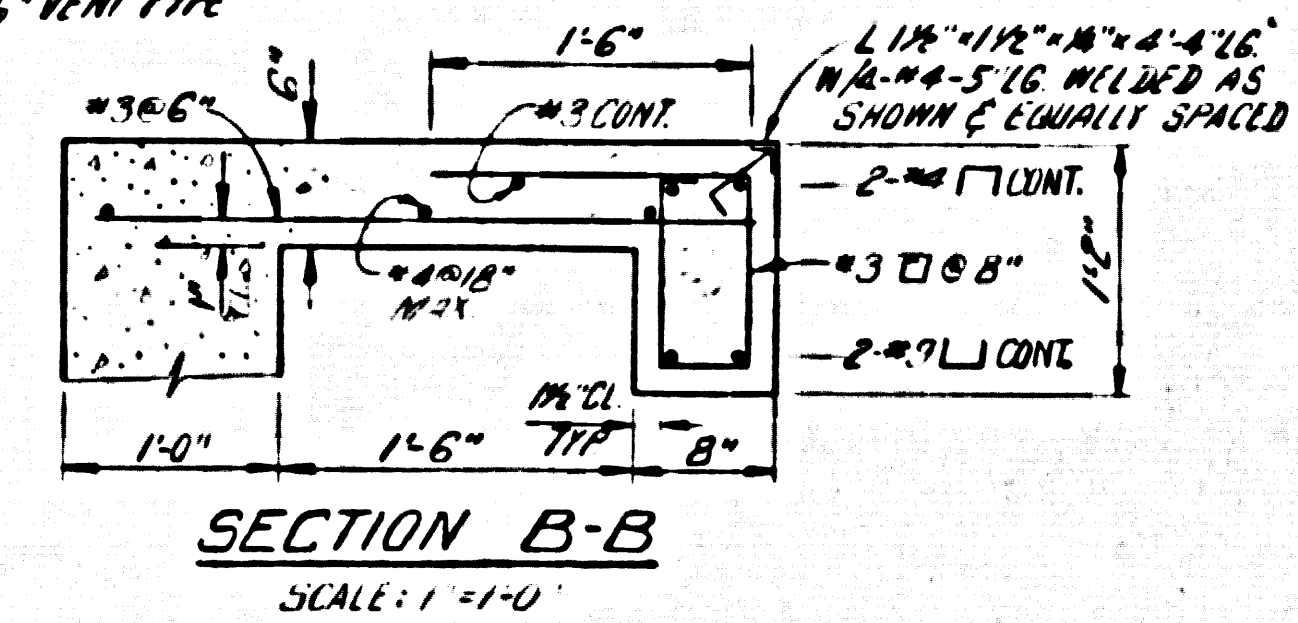
McINTIRE QUIROS
PLANNING & ENGINEERING
670 MONTEREY PASS ROAD
MONTEREY PARK, CALIF.
213-283-7661
Donald W. Hong, P.E. 1798A

SHEET NO. 3183
CAP PROJ NO. 9940-02
JOB NO. 5400
DATE _____
SCALE _____
SHEET 35 OF 37 SHEETS



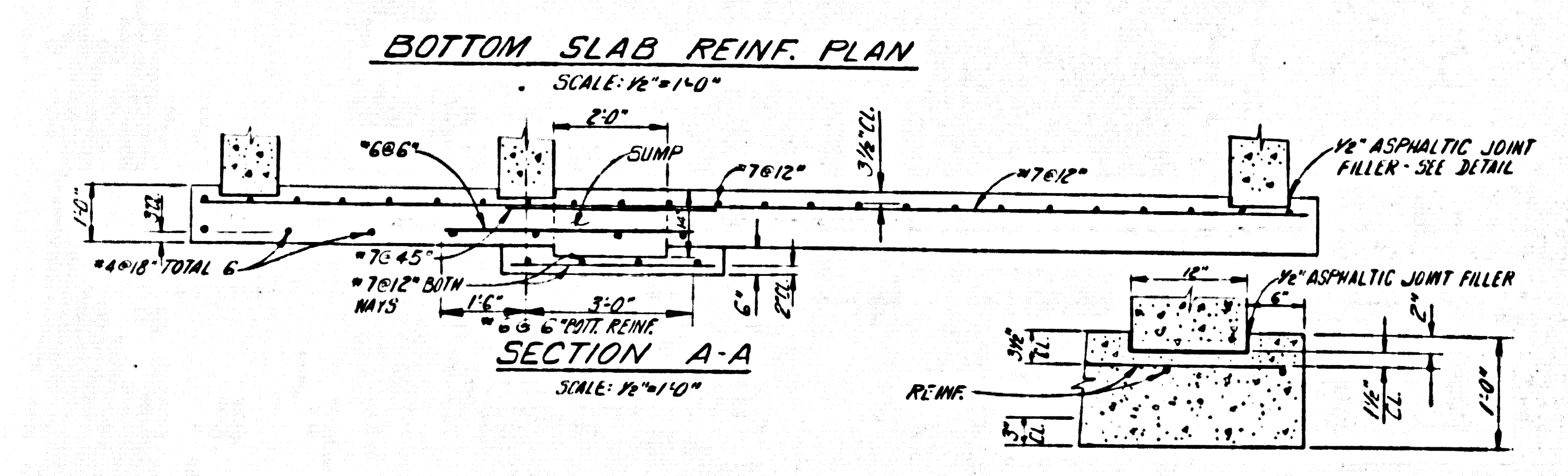
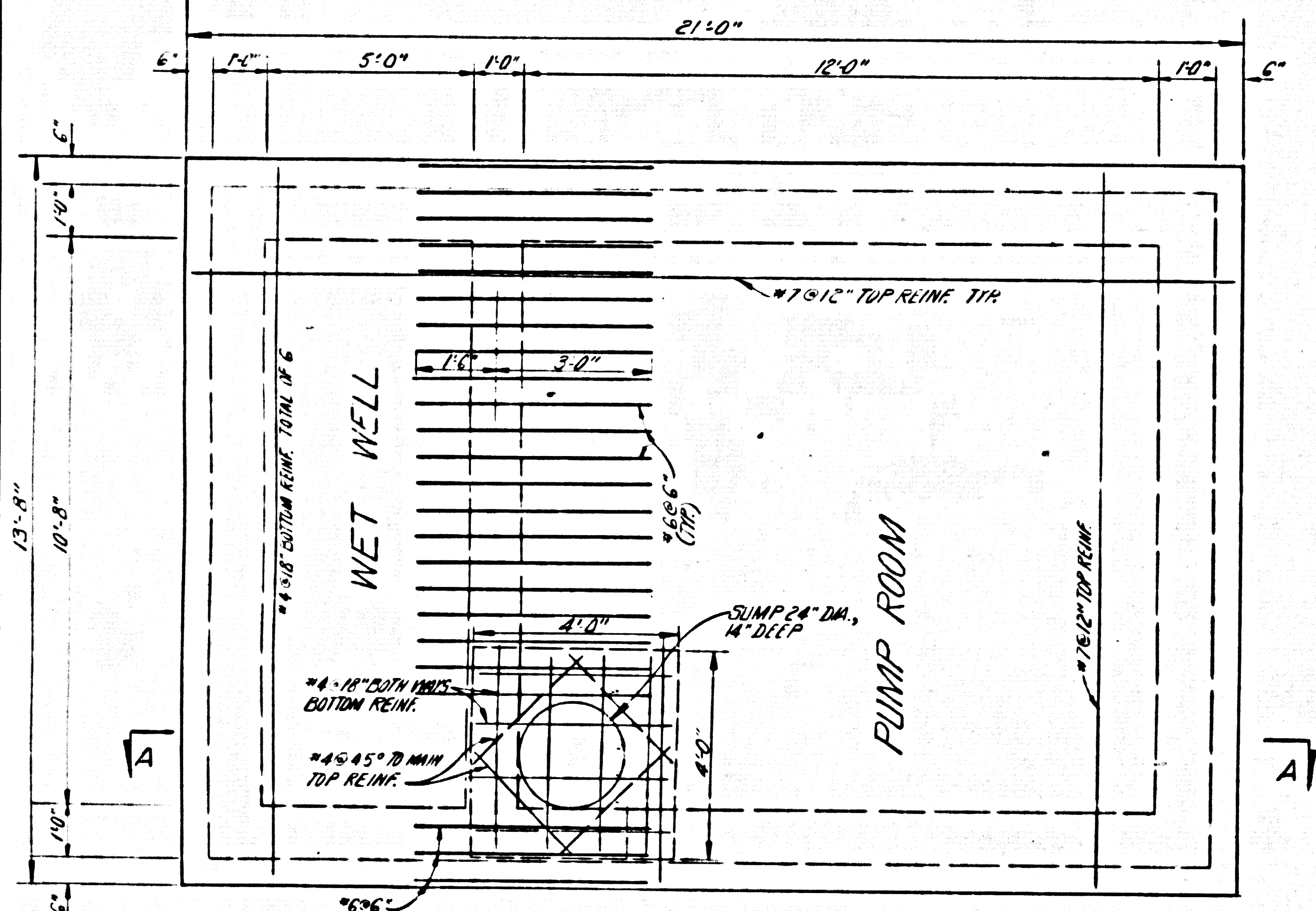
NOTE:
6" TOP SLAB OF LHT STA. SHOWY
ALL REINF. IS 1" CLEAR FROM
BOTTOM OF SLAB.

SLAB REINF. PLAN
SCALE: 1/2"=1'-0"

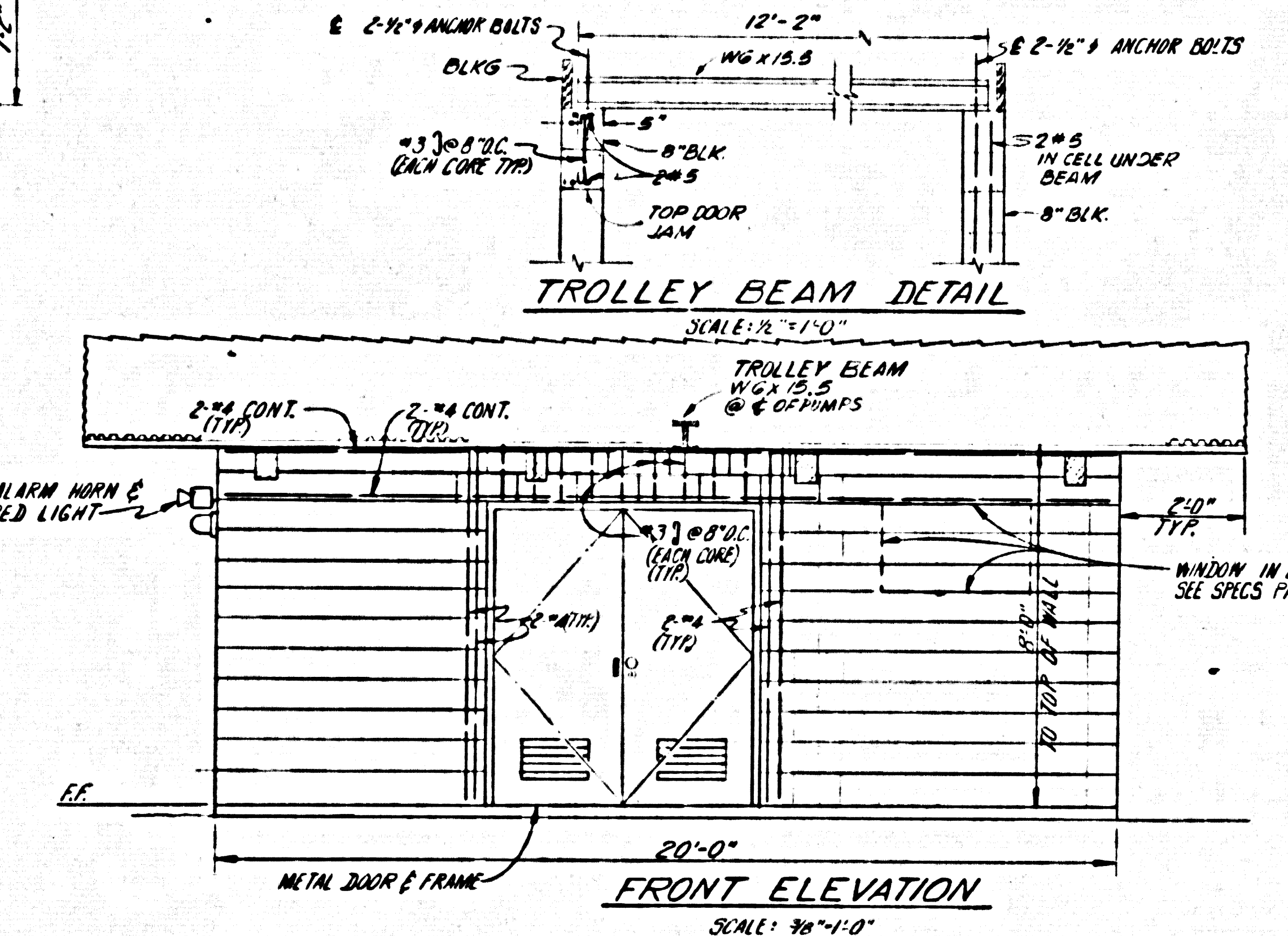


SECTION						
BAR	SHAPE	A	B	C	D	E
"1"	1/2"	#3@6"	#3@6"	#3@6"	#3@6"	#3@6"
"2"	1/2"	#3@6"	#3@6"	#3@6"	#3@6"	#3@6"
"3"	1/2"	#3@6"	#3@6"	#3@6"	#3@6"	#3@6"
"4"	1/2"	#3@6"	#3@6"	#3@6"	#3@6"	#3@6"
"5"	1/2"	#3@6"	#3@6"	#3@6"	#3@6"	#3@6"
"6"	1/2"	#3@6"	#3@6"	#3@6"	#3@6"	#3@6"
"7"	1/2"	#3@6"	#3@6"	#3@6"	#3@6"	#3@6"
"8"	1/2"	#3@6"	#3@6"	#3@6"	#3@6"	#3@6"
"9"	1/2"	#3@6"	#3@6"	#3@6"	#3@6"	#3@6"
"10"	1/2"	#3@6"	#3@6"	#3@6"	#3@6"	#3@6"
"11"	1/2"	#3@6"	#3@6"	#3@6"	#3@6"	#3@6"

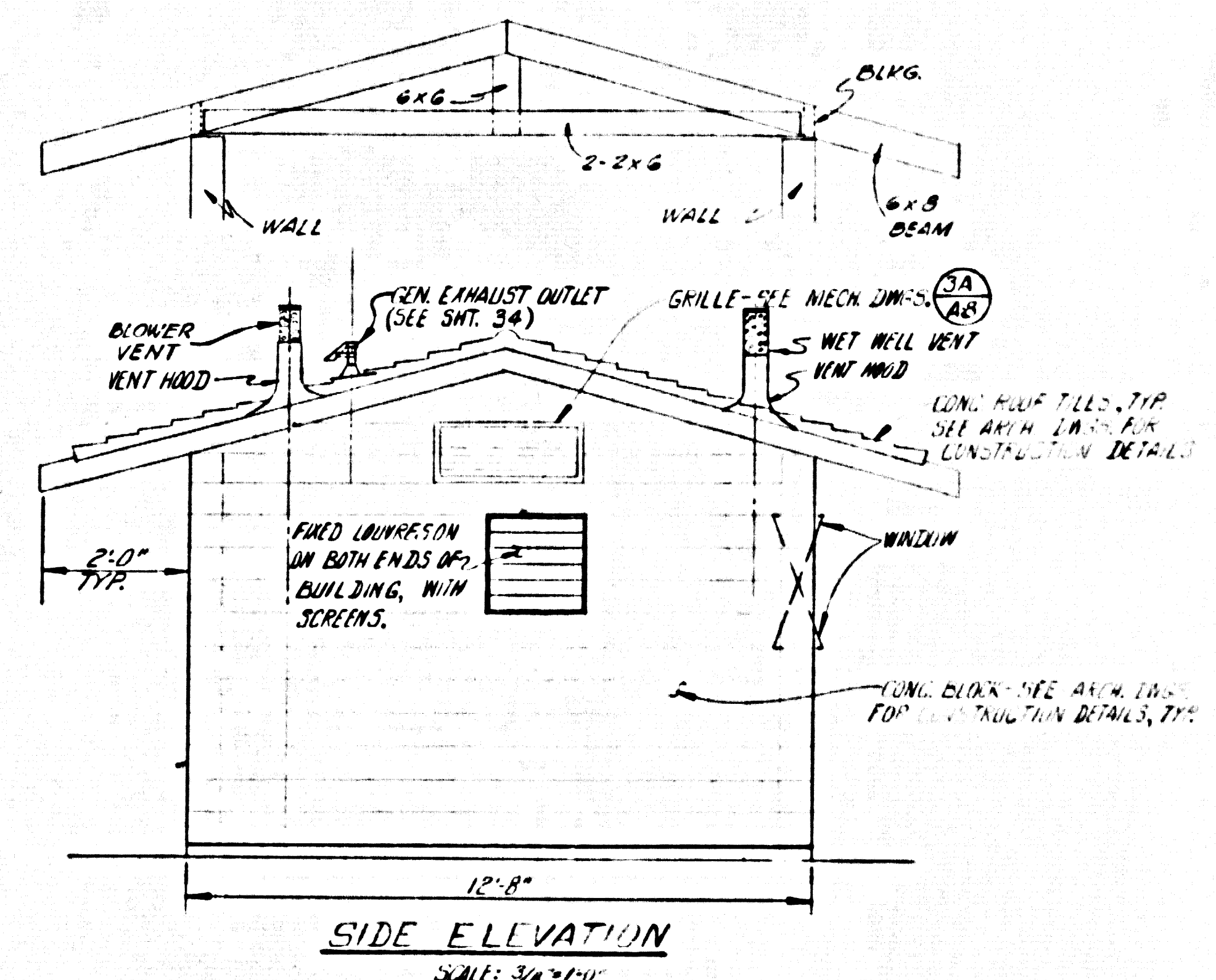
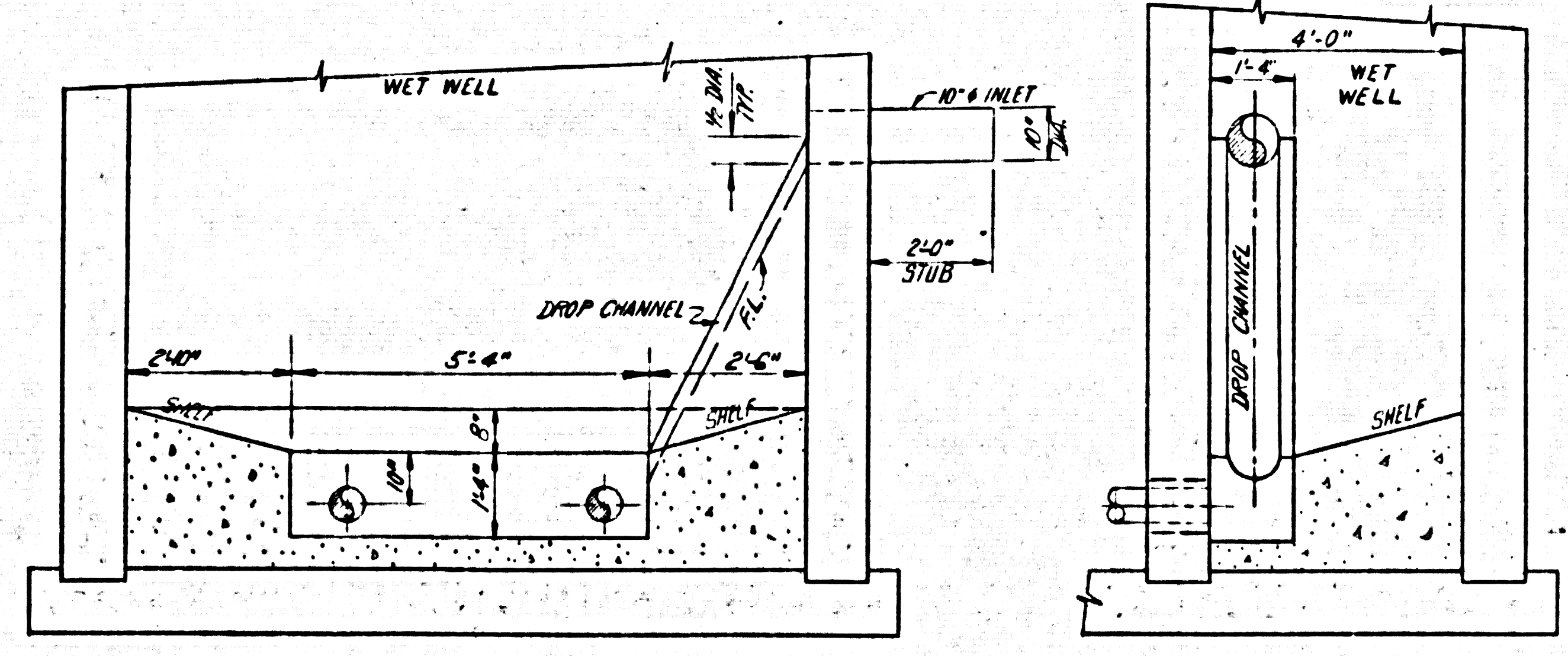
WALL REINFORCEMENT
FOR STATION NO. 1 SEE ELEK. SMT. NO. 33
FOR STATION NO. 2 SEE ELEK. SMT. NO. 35



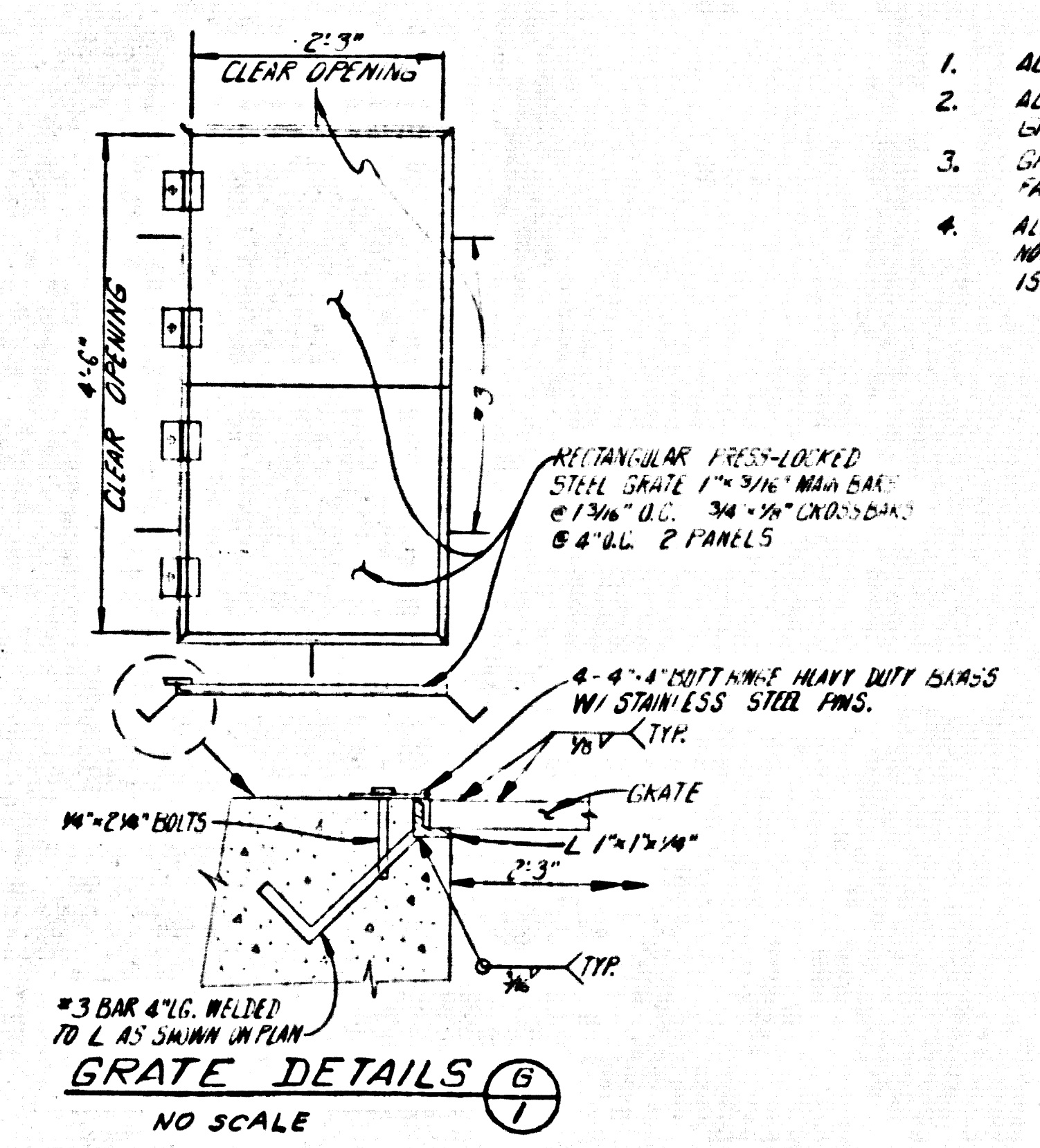
TYPICAL JOINT DETAIL
SCALE: 1"=1'-0"



PUMP STA. NO. 2 DROP CHANNEL DETAILS
SCALE: 1/2"=1'-0"



GRATE DETAILS
NO SCALE



- NOTES**
- ALL CONCRETE SHALL BE 3000 P.S.I.
 - ALL CELLS IN LONG BLOCK TO BE SPRAYED GULF.
 - SHALL BE SOLICITIZED AFTER APPLICATION.
 - ALL PIPING SLEEVES TO BE FULLED WITH NON-SHRINKING GROUT AFTER PIPING IS INSTALLED.

44372

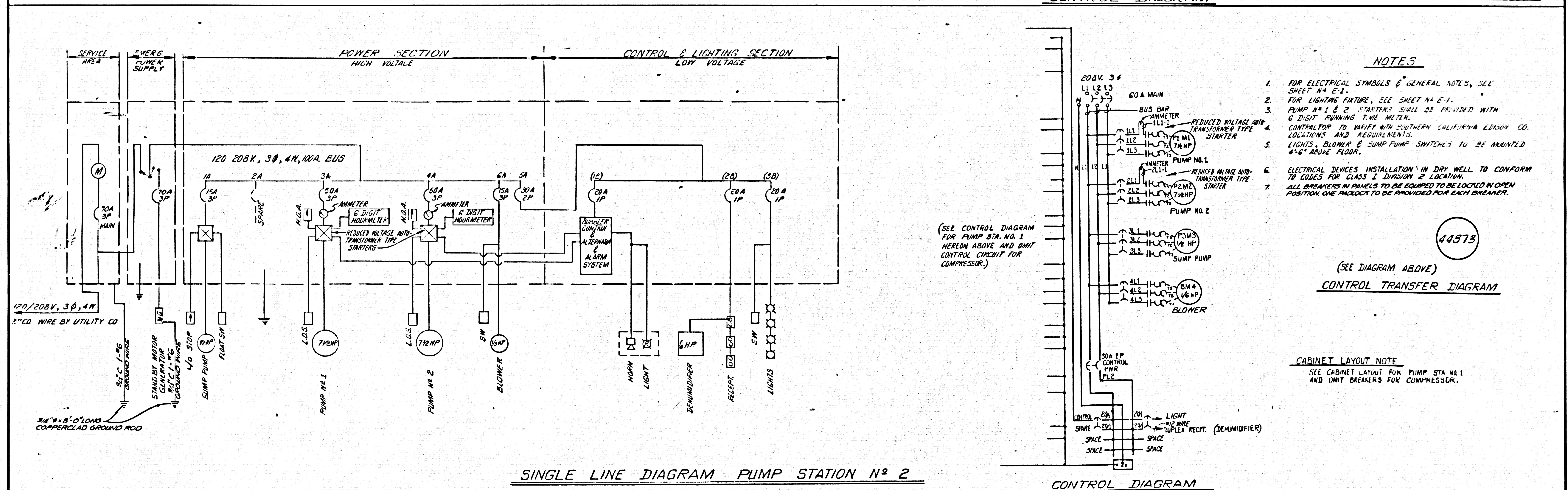
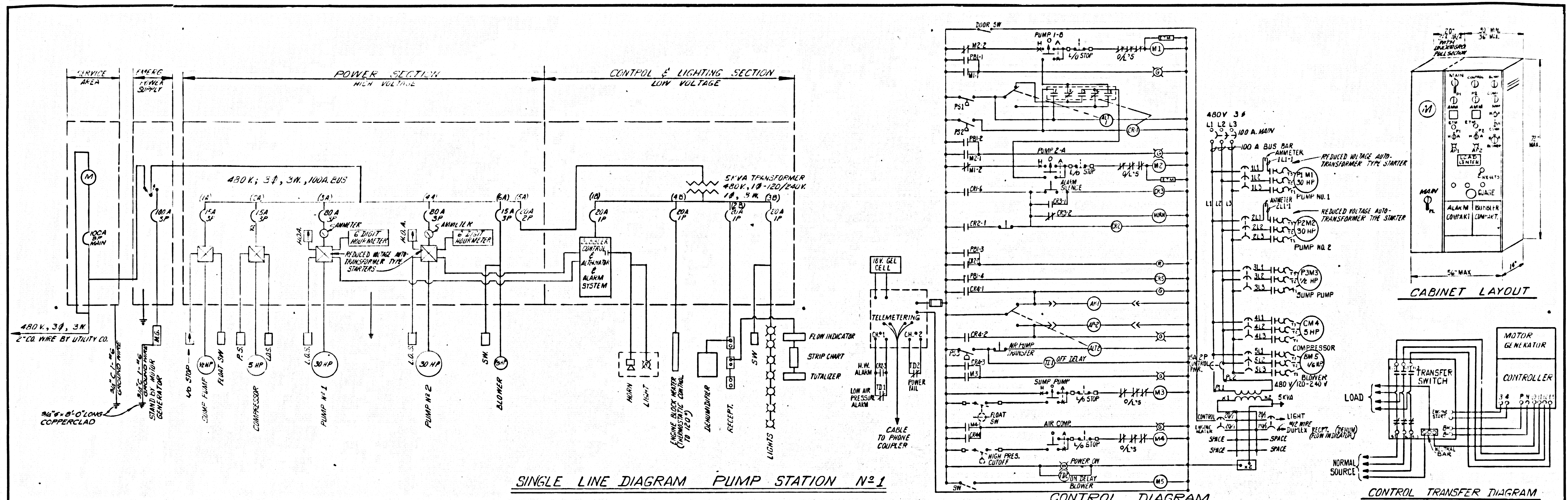
REVISIONS			
No.	Date	Description	Appr.

SEWAGE PUMP STATIONS NO. 1 & NO. 2
GENERAL DEVELOPMENT, AFTERBAY
CASTAIC LAKE
STATE AND COUNTY REGIONAL PARK

APPROVALS
L.A. County Dept. of Parks and Recreation
Date: _____

McINTIRE QUIROS
PLANNING & ENGINEERING
670 MONTEREY PASS ROAD
MONTEREY PARK, CALIF.
213-283-7661
Diana D. Hoan R.C.E. 1134A

SHEET NO. 3183
CAP PROJ NO. 9940-02
JOB NO. 5400
DATE _____
SCALE _____
SHEET 36 OF 37 SHEETS



REVISIONS			
No.	Date	Description	Appr.

SEWAGE PUMP STATIONS NO. 1 & NO. 2
GENERAL DEVELOPMENT, AFTERBAY
CASTAIC LAKE
STATE AND COUNTY REGIONAL PARK

APPROVALS
L.A. County Dept. of Parks and Recreation
Date: _____

McINTIRE QUIROS
PLANNING & ENGINEERING
670 MONTEREY PASS ROAD
MONTEREY PARK, CALIF.
213-283-7661
Dmsad 10 May BCE1798B

SPEC NO
3183
CAP PROJ NO
9940-02
JOB NO
5400
DATE
SCALE
SHEET 37 OF 37 SHEETS