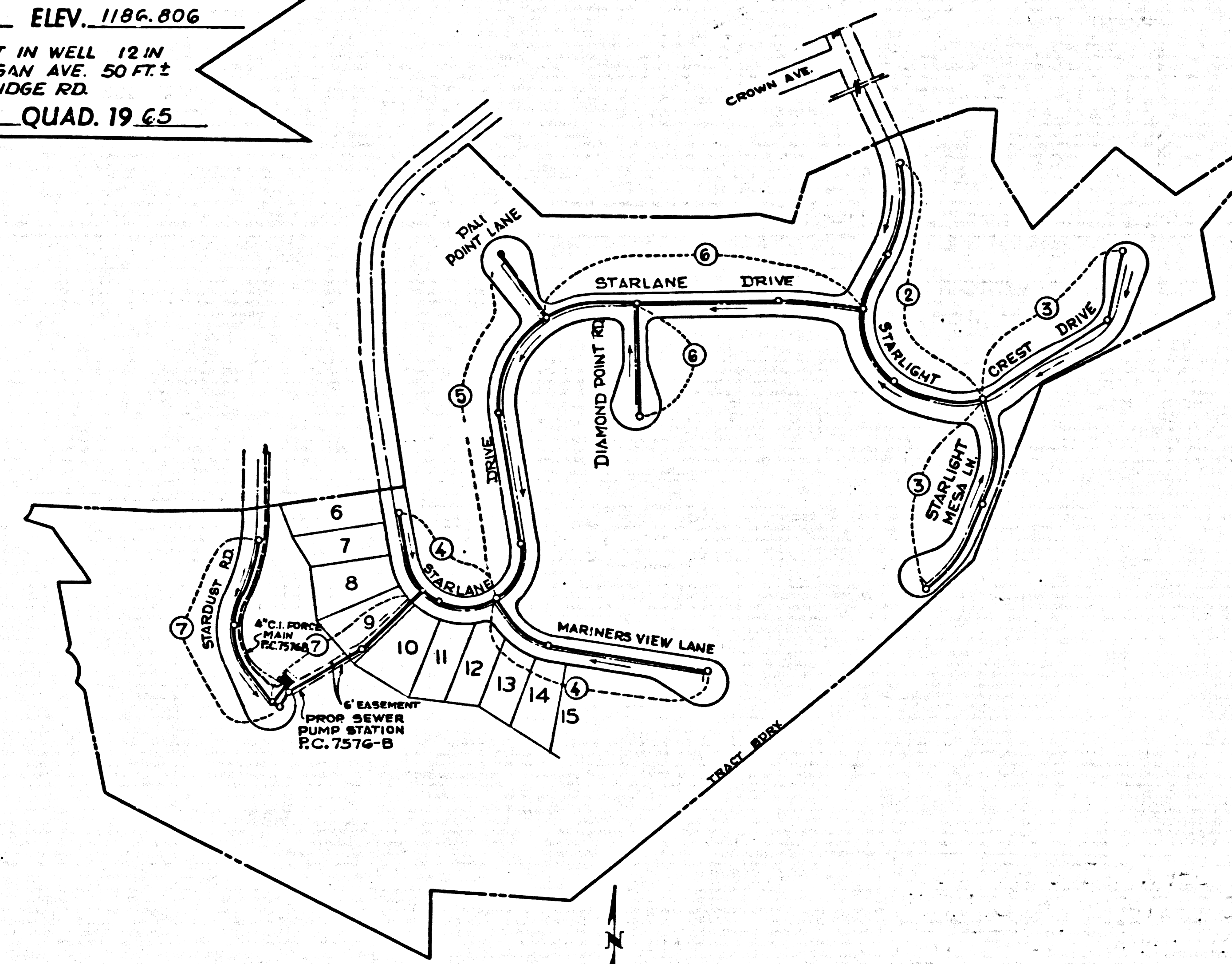


B.M. B.Y. 4514 ELEV. 1186.806
 C.S. MONUMENT IN WELL 12 IN
 DN C/L MICHIGAN AVE. 50 FT. ±
 W C/L DALERIDGE RD.
 L.A. CANADA QUAD. 19 65



INDEX MAP
 TRACT NO. 30362
 SCALE: 1"=200'

DOUBLE SCALE
 MONTROSE BLDG. DIST. NO. 3.1

PROFILE, ALIGNMENT AND GRADE OF
 SANITARY SEWERS PAGE 1

TRACT NO. 30362
 PRIVATE CONTRACT NO. 7576

W.S. 88, A-5
 4 SHEETS, 7 PAGES
 SCALE: 1"=40' AUGUST 1966

PREPARED BY THE OFFICES OF
 RAUB, BEIN, FROST & ASSOCIATES
 ENGINEERS & SURVEYORS
 BY: *Robert Bein*
 REG. C.E. NO. 18758

38762

- NOTES:
1. PROVIDE STAKES ON THE PROPERTY LINE OR PROPERTY LINES PRODUCED AT RIGHT ANGLES TO THE SEWER LINE AT THE CENTER LINE OF EACH MANHOLE.
 2. NO REPRESENTATIVE OF THE COUNTY ENGINEER WILL SURVEY OR LAY OUT ANY PORTION OF THE WORK.
 3. THE PRIVATE ENGINEER SHALL FURNISH THE COUNTY ENGINEER WITH GRADE SHEETS AND STATIONING FOR ALL HOUSE LATERALS AND "T" BRANCHES AND SHALL PROVIDE STAKES FOR THEM AT THEIR PROPER LOCATIONS WITH STATIONING PLAINLY MARKED. ALL HOUSE LATERALS SHALL BE CONSTRUCTED IN A STRAIGHT ALIGNMENT AT RIGHT ANGLES FROM THE MAIN LINE SEWER EXCEPT AS SHOWN ON THE PLANS. HOUSE LATERALS FROM CHIMNEYS SHALL NOT HAVE AN ANGLE OF LESS THAN 45° WITH THE MAIN LINE SEWER. ANY CHANGE IN ALIGNMENT SHALL BE REQUESTED IN WRITING BY THE PRIVATE ENGINEER.
 4. THE PRIVATE ENGINEER SHALL FURNISH THE HOUSE LATERAL DEPTH AT THE PROPERTY LINE BELOW THE TOP OF CURB ELEVATION FOR EACH HOUSE LATERAL ON THE GRADE SHEET.
 5. NO REVISIONS SHALL BE MADE IN THESE PLANS WITHOUT THE APPROVAL OF THE COUNTY ENGINEER.
 6. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION DIVISION BY TELEPHONE, MADISON 9-0707, EXT. 81581, AT LEAST TWENTY-FOUR HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
 7. MANHOLES SHALL BE BRICK SEWER STRUCTURES PER S-3. PRECAST CONCRETE MANHOLES PER S-3 OR S-4 MAY BE USED AS AN ALTERNATE IN LOCATIONS APPROVED BY THE COUNTY ENGINEER.
 8. USE STANDARD MANHOLE FRAMES AND COVERS, S-1, EXCEPT AS NOTED.
 9. MANHOLES TOP IN UNIMPROVED AREAS OF WAY TO BE SIX INCHES ABOVE FINISHED GRADE.
 10. USE EXTRA STRENGTH PIPE, ALL PIPE IS STANDARD DEPTH EXCEPT AS NOTED.
 11. USE MECHANICAL COMPRESSION JOINTS FOR ALL V.C.P. JOINTS PER SPC'S, SECS. 24, 48 & 49.
 12. IF A POWER POLE IS WITHIN THREE FEET OF THE SEWER, THE SEWER SHALL BE ENCASED, PER S-25, TWO FEET ON EACH SIDE FROM THE POINT OF INTERFERENCE.
 13. 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 V.C.P. SEWER WHICH IS NOT INDICATED ON THE PLANS, THE PIPE SHALL BE ENCASED PER S-25, UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER.
 14. HOUSE LATERALS TO BE CONSTRUCTED WITH INVERTS AT PROPERTY LINE 6 FEET BELOW CURB GRADE EXCEPT AS NOTED.
 15. REGRADE ALL TRINCHES WITHIN PAVED AREAS TO MEET L.A. COUNTY ROAD DEPT. OR CALIFORNIA STATE HIGHWAY REQUIREMENTS IN ACCORDANCE WITH PERMITS.
 16. FOR ALLOWABLE LEAKAGE TEST USE FORMULA NO. 2, SPC'S, SEC. 54.
 17. ALL STATE AND LOCAL TRENCH SAFETY ORDERS WILL BE STRICTLY ENFORCED.
 18. CONSTRUCTION IN FILLED AREAS:
 - (A) AN ACCEPTABLE CERTIFICATION OF CONSTRUCTION TEST RESULTS SHALL BE SUBMITTED TO COMBUT DIV. IN A COORDINANCE WITH A.B. THE STD. METHOD OF TEST D-569-42-77.
 - (B) NO CONSTRUCTION IS PERMITTED IN FILLED AREAS WHERE THE RELATIVE DENSITY OF CONSTRUCTION IS LESS THAN 80%.
 - (C) IF THE RELATIVE DENSITY OF CONSTRUCTION IS LESS THAN 80% ALL MAIN AND HOUSE LATERALS SHALL BE ENCASED PER S-25 OR HAVE A SPECIAL BASE COURSE PER S-31 CASE 3E. SPECIAL MANHOLE BASES PER S-3A ARE REQUIRED.
 - (D) IF THE RELATIVE DENSITY OF CONSTRUCTION IS GREATER THAN 80% SPECIAL PROVISIONS IN (C) NOT REQUIRED.
 19. FOR CURVED SEWER LINES WITH RADIUS LESS THAN 115' USE 3 1/2' LENGTH OF PIPE.

NOTES:
 GRADES TO WHICH THIS IMPROVEMENT IS TO BE CONSTRUCTED ARE SHOWN ON PLANS AND PROFILE. GRADE POINTS FOR TOP OF CURBS, CENTER LINE OF STREETS, OR CENTER LINE OF ALLEYS ARE SHOWN BY CIRCLES ON PROFILES. AT ALL POINTS BETWEEN DESIGNATED POINTS THE GRADE SHALL BE ESTABLISHED SO AS TO CONFORM TO A STRAIGHT LINE DRAWN BETWEEN SAID DESIGNATED POINTS. ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. SEA LEVEL DATUM OF 1929.
 THIS DRAWING AND THE DATA HEREON ARE HEREBY MADE A PART OF THE SPECIFICATIONS.
 WORK SHALL BE CONSTRUCTED ACCORDING TO STANDARD SPECIFICATIONS DATED JULY 25, 1962, ON FILE IN THE OFFICE OF THE COUNTY ENGINEER AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE COUNTY ENGINEER.
 APPROVAL OF THIS PLAN BY THE COUNTY OF LOS ANGELES DOES NOT CONSTITUTE AN REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OF OR THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY PIPE, OR STRUCTURE WITHIN THE LIMITS OF THE PROJECT. THIS NOTE APPLIES TO ALL PAGES.
 IF WORK IS TO BE DONE IN A STATE HIGHWAY, A PERMIT MUST BE OBTAINED FROM THE STATE OF CALIFORNIA, DIVISION OF HIGHWAYS, 120 SOUTH BRIDGE STREET, LOS ANGELES, CALIFORNIA.

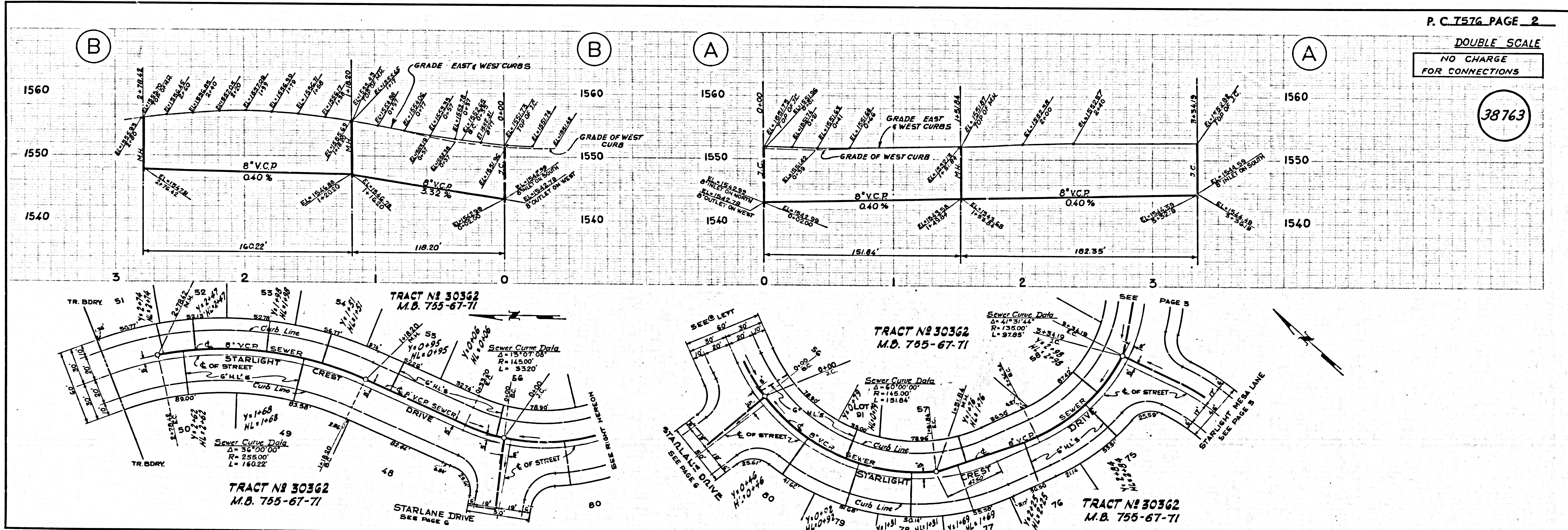
COUNTY OF LOS ANGELES, CALIFORNIA
 JOHN A. LAMBIE, COUNTY ENGINEER
 APPROVED BY: *Robert Bein*
 ASSISTANT SANITATION ENGINEER

J. D. FARKHURST, CHIEF ENGINEER
 APPROVED BY: *J. D. Farkhurst*
 OFFICE ENGINEER

NO CONNECTIONS FOR THE DISPOSAL OF INDUSTRIAL WASTES SHALL BE MADE TO SEWERS SHOWN ON THESE DRAWINGS WITHOUT WRITTEN PERMISSION FROM THE CHIEF ENGINEER AND GENERAL MANAGER OF THE COUNTY SANITATION DISTRICTS.

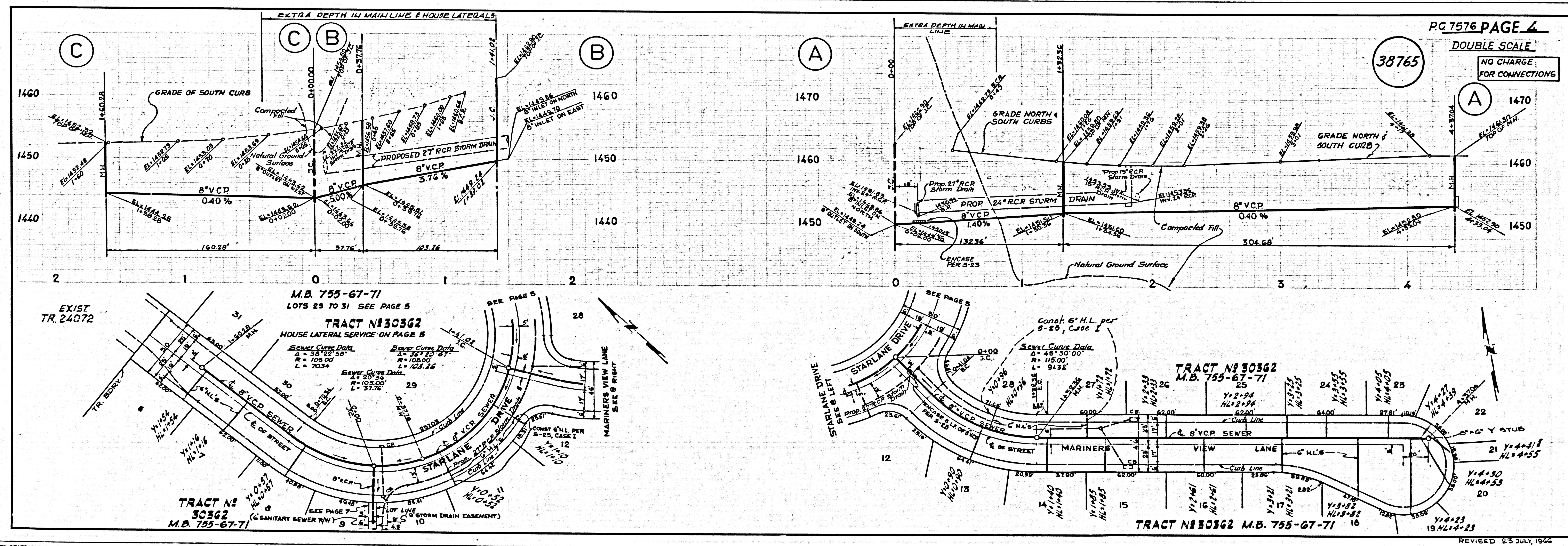
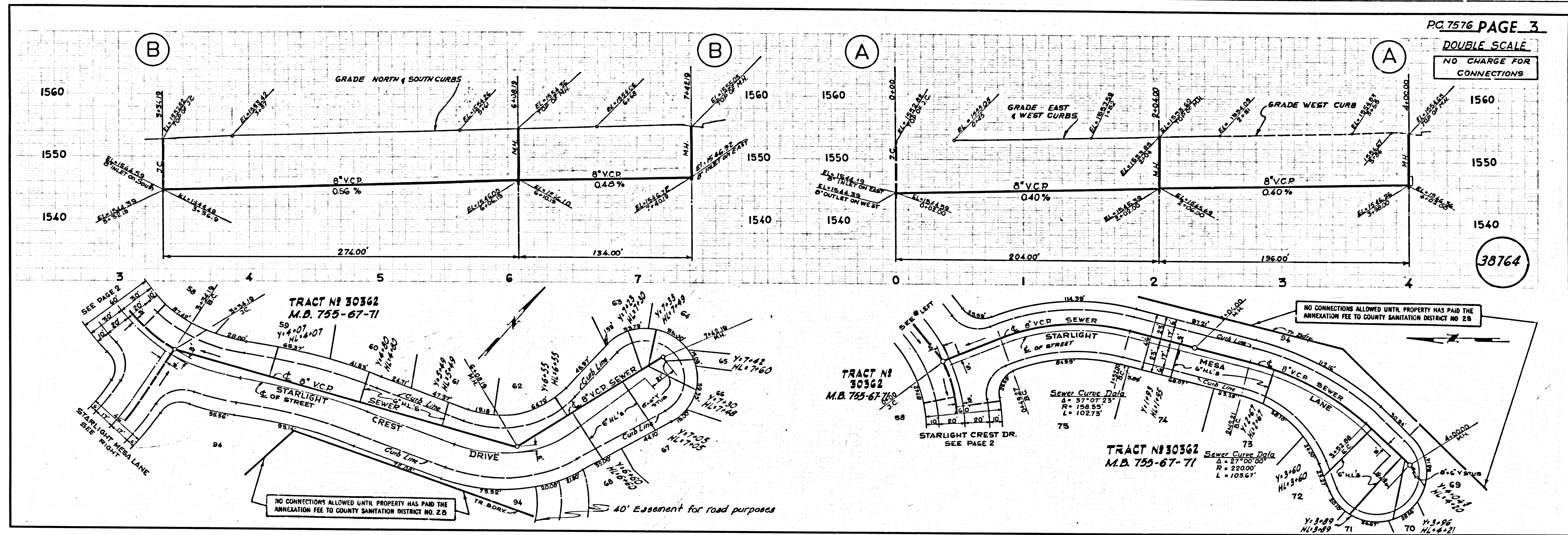
COLLECT CHARGES AS INDICATED
David S. Jains 8-10-66

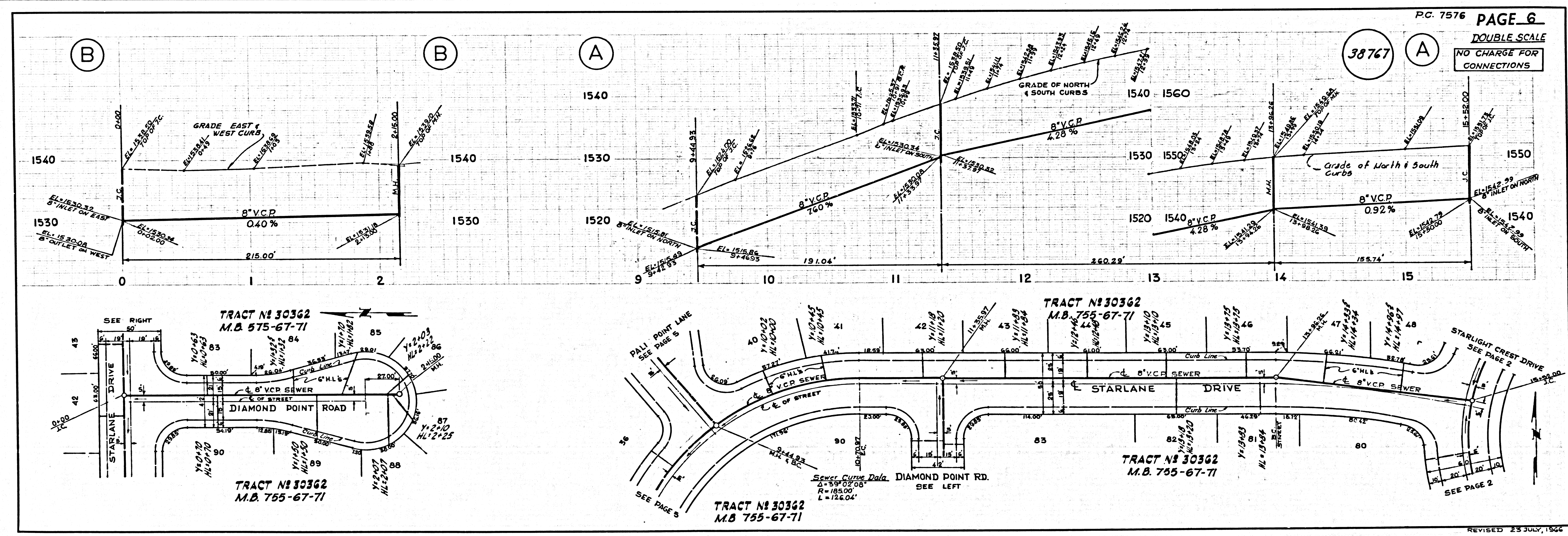
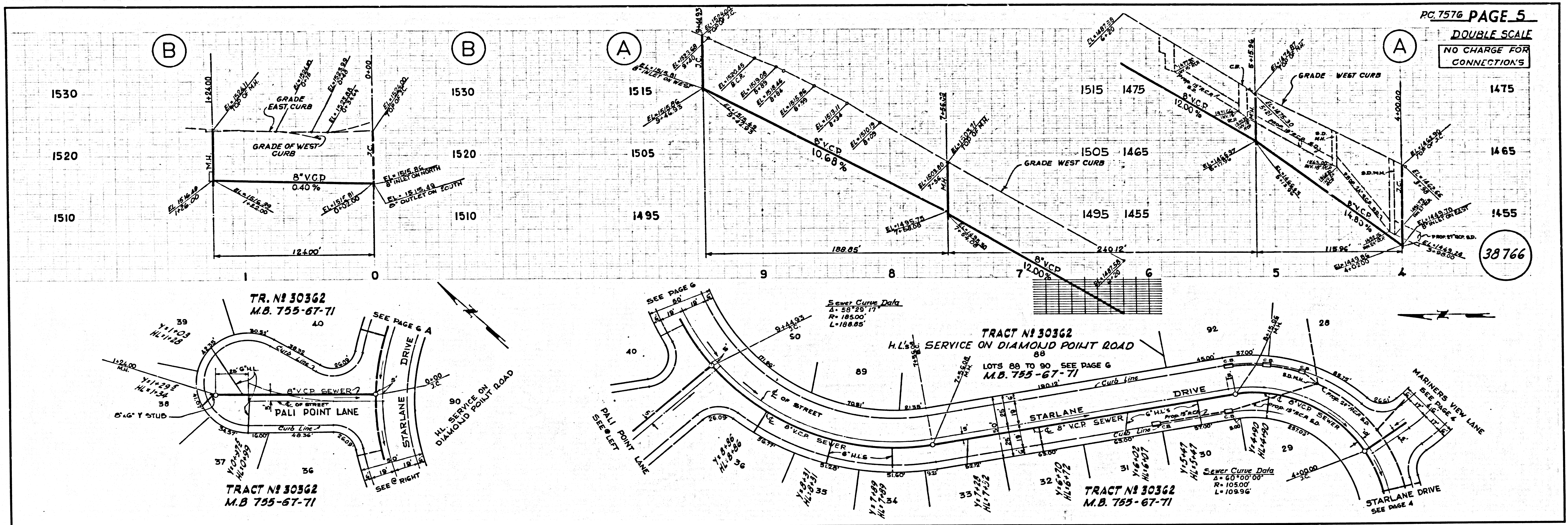
J.N. 0367.10

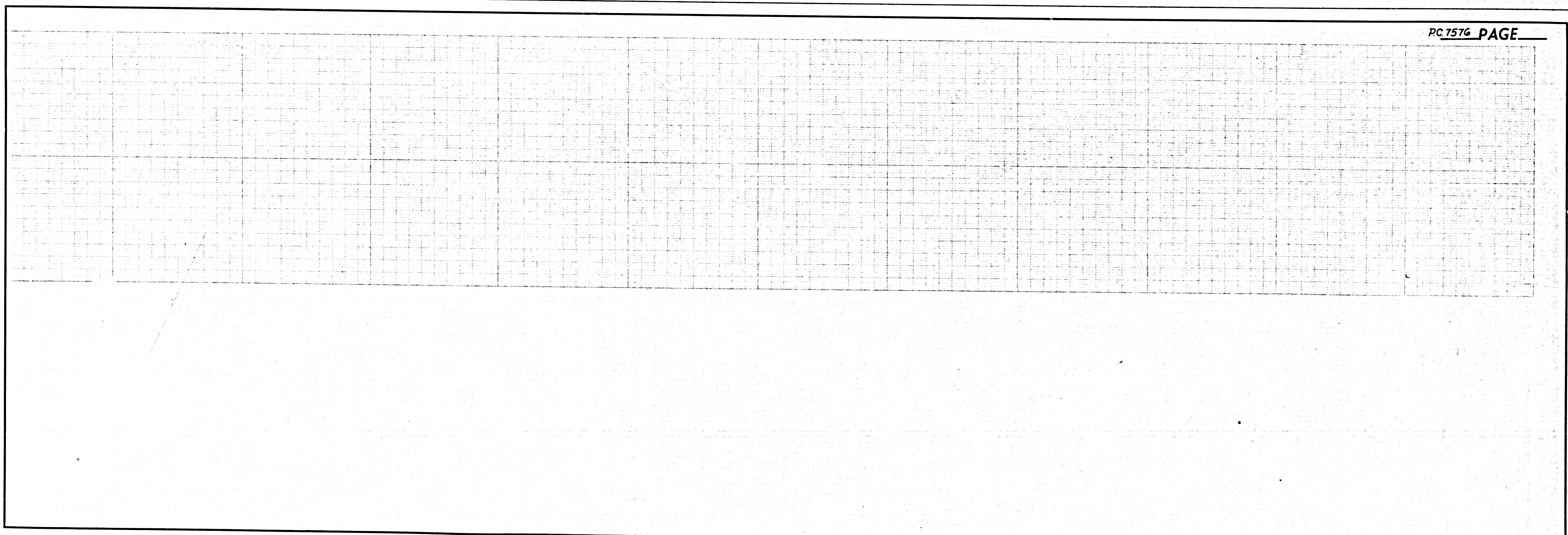
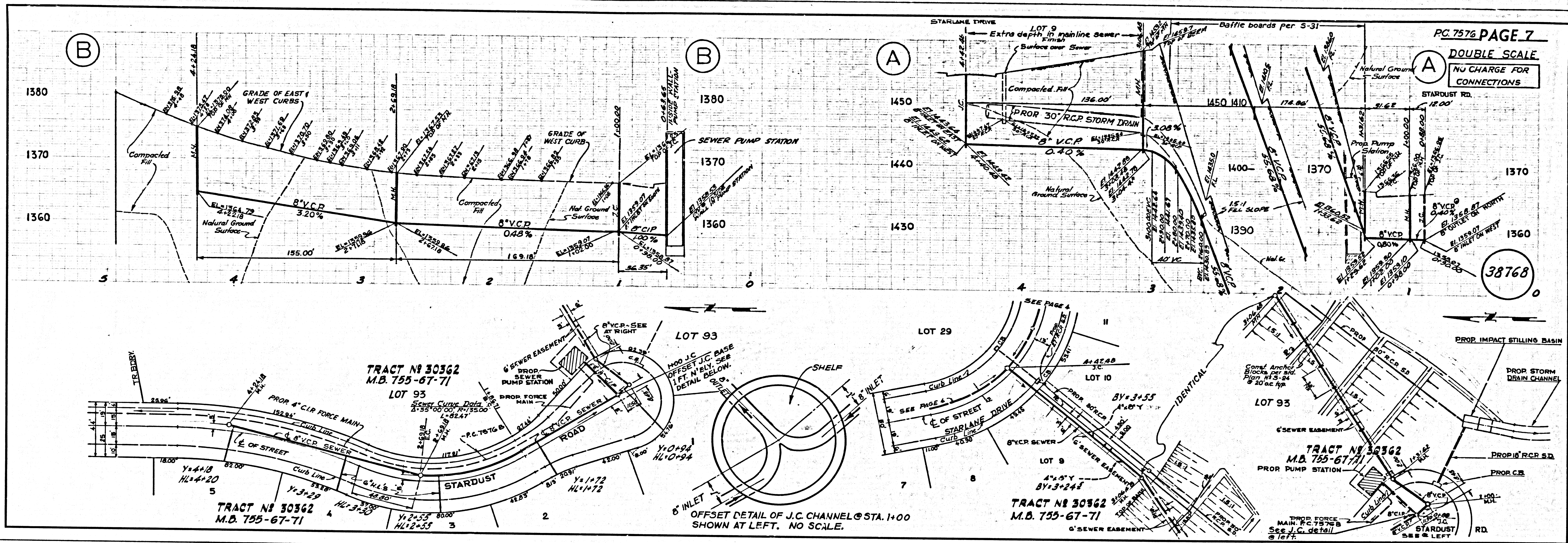


P. C. 7576 PAGE 2
 DOUBLE SCALE
 NO CHARGE FOR CONNECTIONS

38763

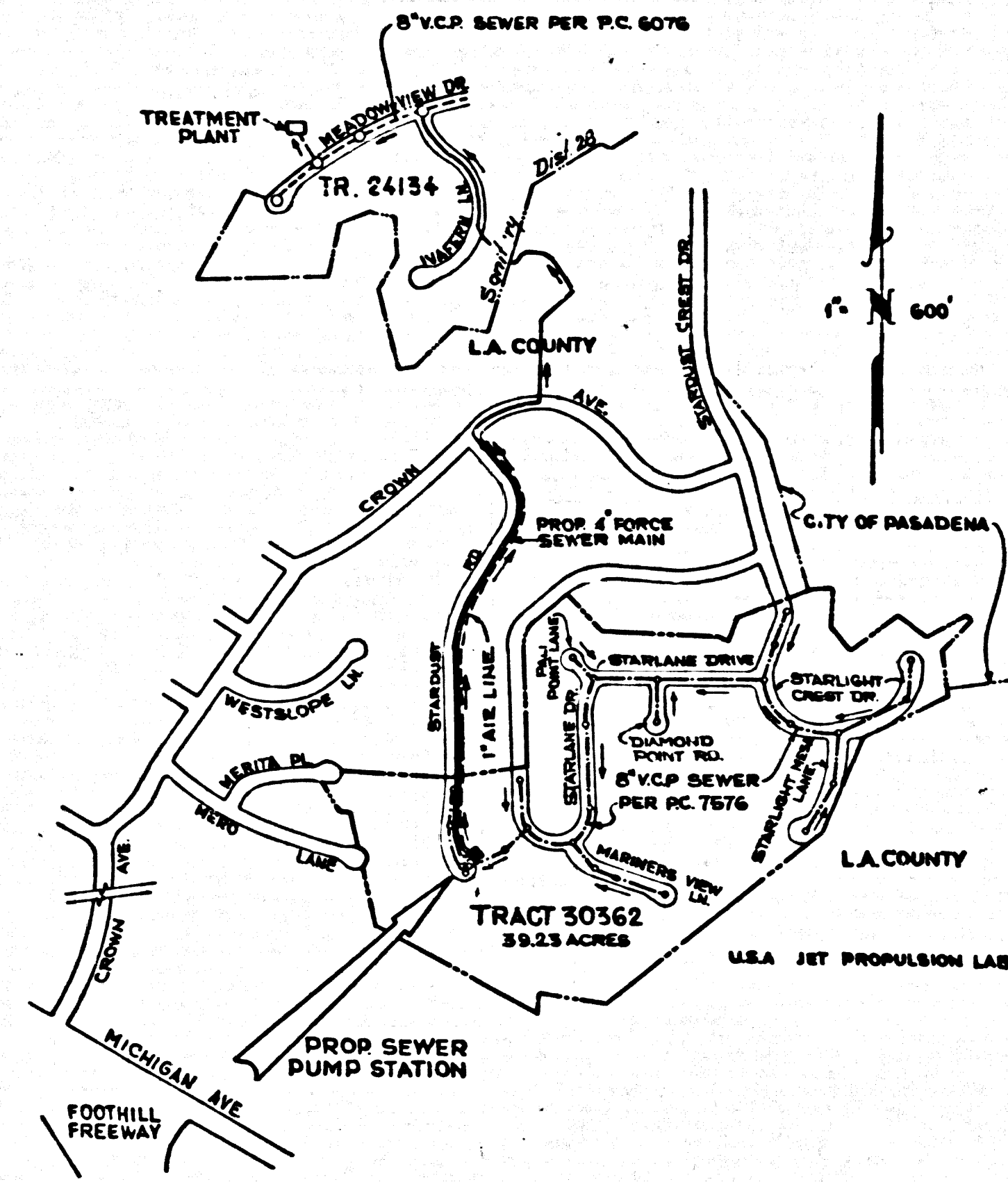






S.M. L.A. CANADA ELEV. 1186.806
 C.S. MONUMENT IN WELL 12 IN. DI. Q.L.
 MICHIGAN AVE. 50 FT. W. Q.L. DALERIDGE
 RD.
 BY 4514 QUAD. 19.65

PAGE INDEX	
PAGE	TITLE
1	Title Sheet
2	Force Main Plan & Profile
3	" " " "
4	" " " "
5	" " " "
6	Force Main Details
7	Plot Plan
8	Material Schedule & Notes
9	Building Elevations, Construction Details
10	Plan Views & Wet Well Section
11	Sections
12	Structural Details
13	" " " "
14	" " " "
15	" " " "
16	Electrical System & Control
17	Miscellaneous Details
18	" " " "



INDEX MAP
 FORCE MAIN AND
 PUMP STATION
 IN
 TRACT NO. 30362
 P.C. 7576-B
 SCALE 1"=600

NO CONNECTIONS FOR THE DISPOSAL OF INDUSTRIAL WASTES SHALL BE MADE TO SEWERS SHOWN ON THESE DRAWINGS WITHOUT WRITTEN PERMISSION FROM THE CHIEF ENGINEER AND GENERAL MANAGER OF THE COUNTY SANITATION DISTRICTS.

MONTROSE BLDG. DIST. NO. 3/

- NOTES:
1. NO REPRESENTATIVE OF THE COUNTY ENGINEER WILL SURVEY OR LAY OUT ANY PORTION OF THE WORK.
 2. THE PRIVATE ENGINEER SHALL FURNISH THE COUNTY ENGINEER WITH GRADE SHEETS.
 3. NO REVISIONS SHALL BE MADE ON THESE PLANS WITHOUT THE APPROVAL OF THE COUNTY ENGINEER.
 4. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION DIVISION BY TELEPHONE, HADISON STREET, S.A.T. 2-8891, AT LEAST TWENTY-FOUR HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
 5. MANHOLES SHALL BE BRICK SEWER STRUCTURES PER S-5.
 6. RESURFACE ALL TRENCHES WITHIN PAVED AREAS TO MEET L.A. COUNTY ROAD DEPT. OR CALIFORNIA STATE HIGHWAY REQUIREMENTS IN ACCORDANCE WITH PERMITS.
 7. ALL STATE AND LOCAL TRENCH SAFETY ORDERS WILL BE STRICTLY ENFORCED.

PERMITS:

IN ADDITION TO THE SANITATION DIVISION CONSTRUCTION PERMIT AND THE ROAD DEPT PERMIT LISTED HEREON THE CONTRACTOR SHALL OBTAIN THE FOLLOWING PERMITS AND PAY THE APPLICABLE FEES BEFORE BEGINNING CONSTRUCTION.

- ELECTRICAL PERMIT } 108 W. 5th STREET 5th FLOOR
- PLUMBING PERMIT } PUBLIC COUNTER, LOS ANGELES 11, CALIF.
- BUILDING PERMIT

ISSUE NO PERMITS TO FORCE MAIN
Kenneth Weber 9-21-66

ISSUED	BY	REVISION	DATE	APPROVED	DATE
		ADDED AIR INJECTOR SYSTEM PER S. 123679/10/12	9-1-67		

PROFILE, ALIGNMENT AND GRADE OF
 FORCE MAIN AND
 PUMP STATION
 TO BE CONSTRUCTED IN
 STARDUST ROAD

FOR TRACT NO. 30362
 PRIVATE CONTRACT NO. 7576-B

W.S. 88
 16 SHEETS, 10 PAGES
 SCALE: VERT. 1"=8'
 HORIZ. 1"=60'
 AUGUST, 1966

PREPARED IN THE OFFICES OF
 RAUB, BEIN, FROST & ASSOCIATES
 ENGINEERS-SURVEYORS
 136 Rochester Street, Costa Mesa, Calif.
 BY: *Robert W. Bein*
 ROBERT W. BEIN REG. C. E. NO. 12758

40:48

FOR LEGEND SEE PLAN NO. S-1

NOTE: GRADES TO WHICH THIS IMPROVEMENT IS TO BE CONSTRUCTED ARE SHOWN ON PLANS AND PROFILE. GRADE POINTS FOR TOP OF CURBS, CENTER LINE OF STREETS, OR CENTER LINE OF ALLEYS ARE SHOWN BY CIRCLES ON PROFILE. AT ALL POINTS BETWEEN DESIGNATED POINTS THE GRADE SHALL BE ESTABLISHED SO AS TO CONFORM TO A STRAIGHT LINE BETWEEN SAID DESIGNATED POINTS. ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. MEAN SEA LEVEL DATUM OF 1929.

THE DRAWINGS AND THE DATA HEREON ARE HEREBY MADE A PART OF THE SPECIFICATIONS.

WORK SHALL BE CONSTRUCTED ACCORDING TO STANDARD SPECIFICATIONS DATED 1962, 1962, ON FILE IN THE OFFICE OF THE COUNTY ENGINEER AND SHALL BE PROCEEDED ONLY IN THE PRESENCE OF THE COUNTY ENGINEER.

BEFORE WORK CAN BE STARTED, THE CONTRACTOR MUST OBTAIN A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE L.A. COUNTY ROAD DEPT., DISTRICT OFFICE, 215 W. 1st ST., LOS ANGELES 12, CALIF. AND A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE L.A. COUNTY ROAD DEPT., DISTRICT OFFICE, 215 W. 1st ST., LOS ANGELES 12, CALIF. AND A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE L.A. COUNTY ROAD DEPT., DISTRICT OFFICE, 215 W. 1st ST., LOS ANGELES 12, CALIF. APPROVAL OF THIS PLAN BY THE COUNTY OF LOS ANGELES DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OF OR THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY PIPE, OR STRUCTURE WITHIN THE LIMITS OF THE PROJECT. THIS NOTE APPLIES TO ALL PAGES.

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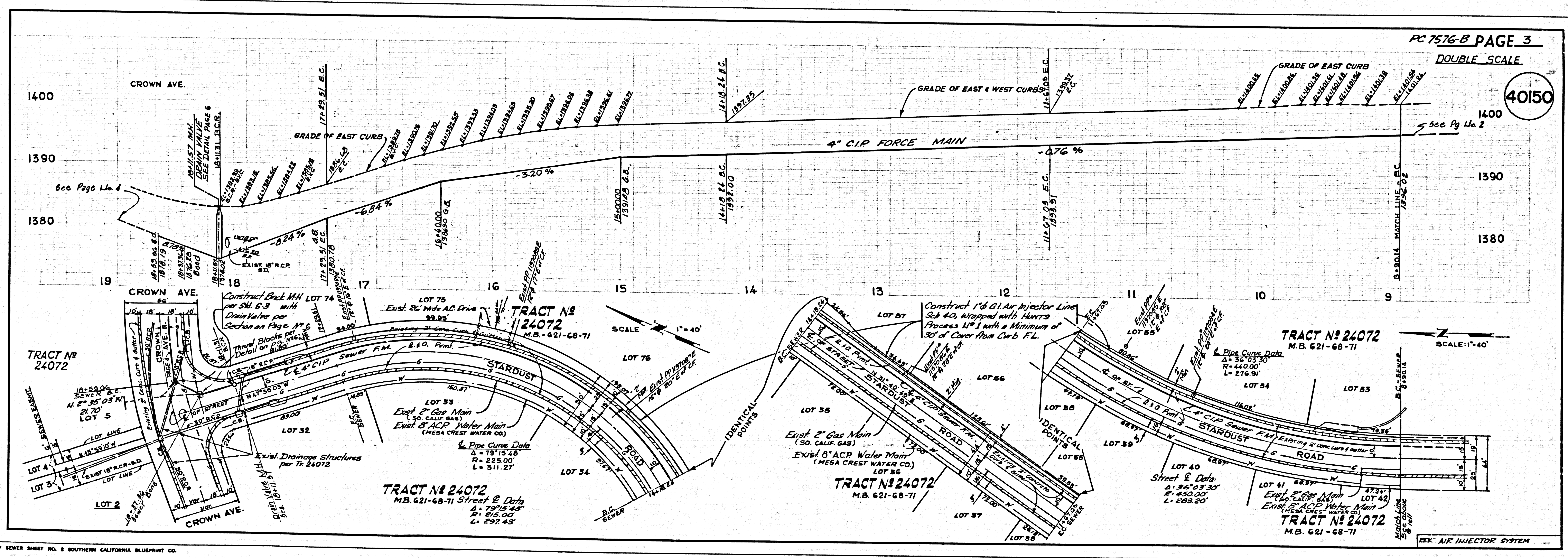
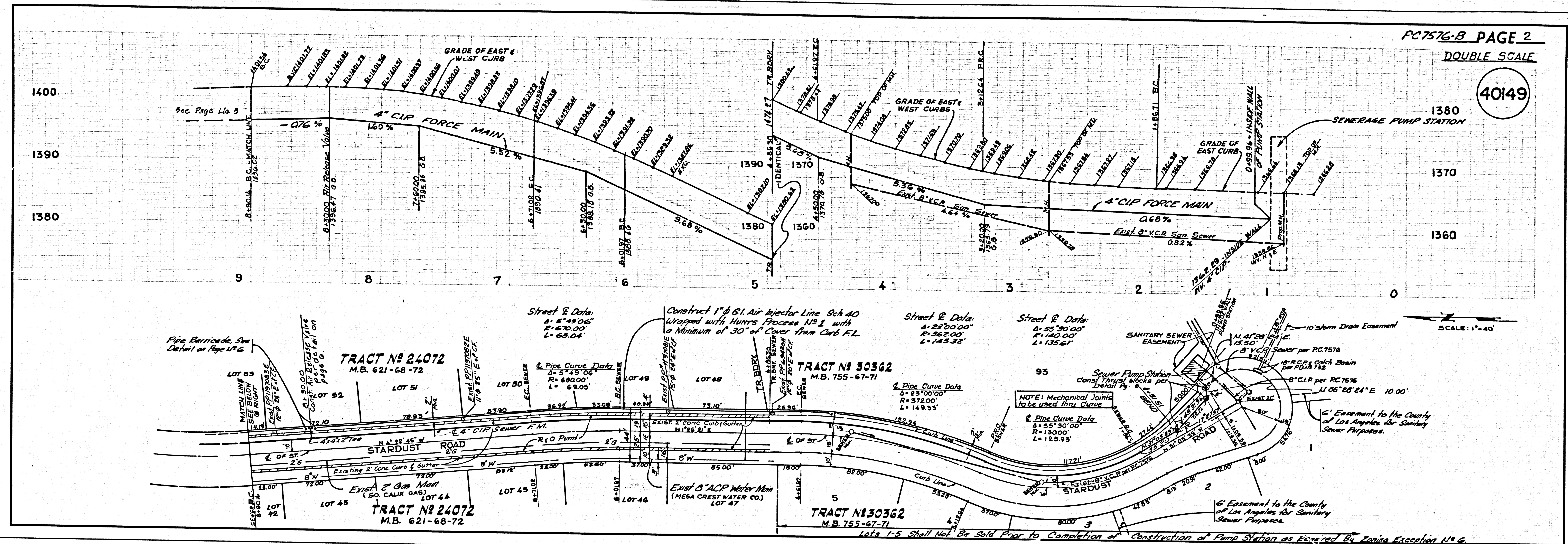
COUNTY OF LOS ANGELES, CALIFORNIA
 JOHN A. LAMBIE, COUNTY ENGINEER
 APPROVED BY: *John A. Lambie*
 SANITATION ENGINEER

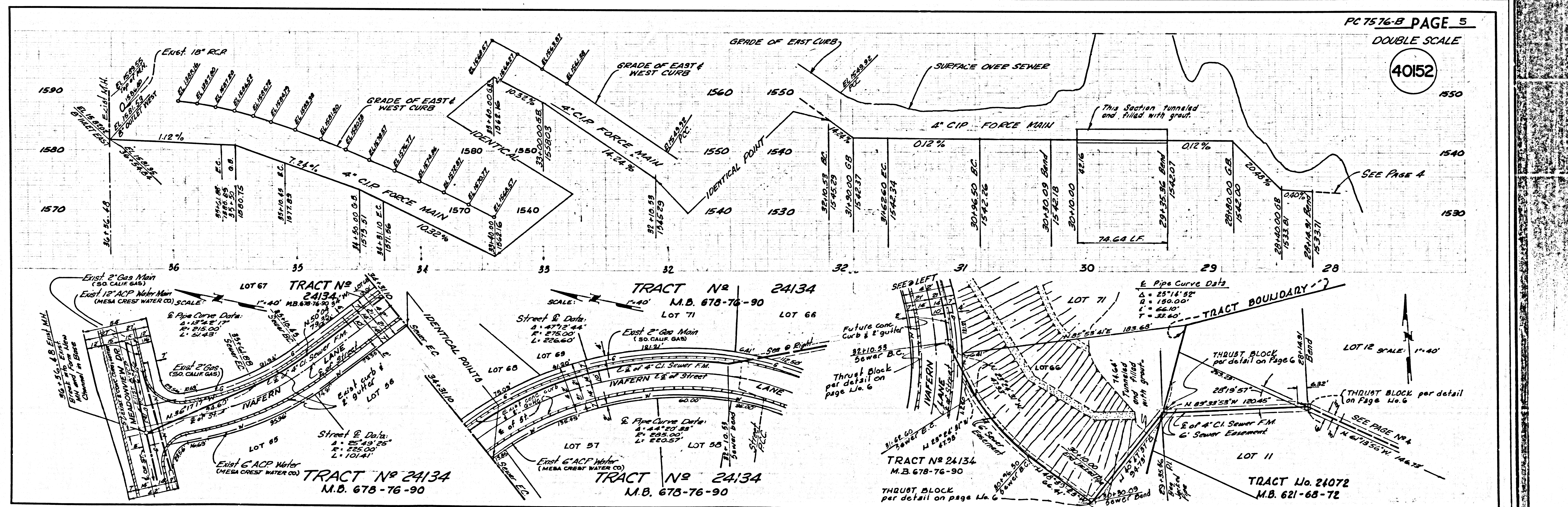
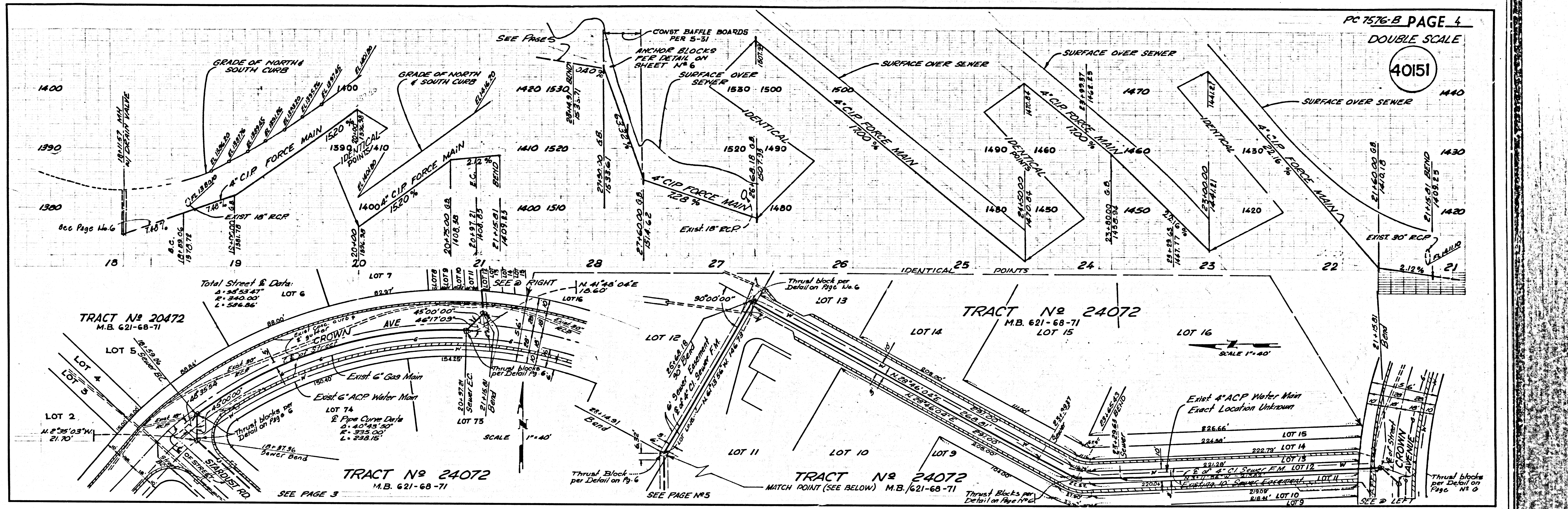
J. D. PARKHURST, CHIEF ENGINEER
 APPROVED BY: *J. D. Parkhurst*
 OFFICE ENGINEER

REVIEWED BY: *Calvin K. ...*
 SEWER MAINS SUPT.

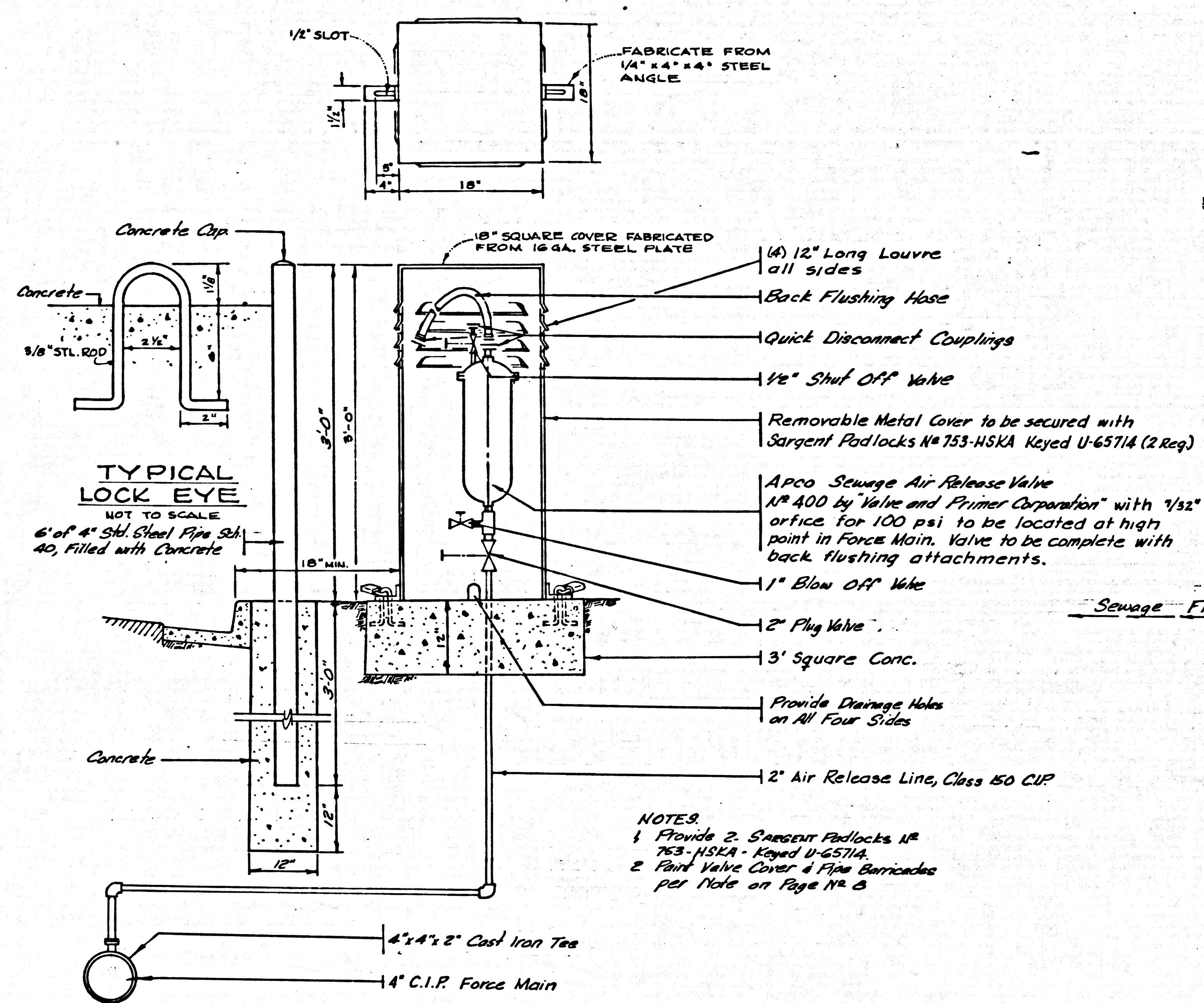
CHECKED BY: *Richard ...*
 REG. C. E. NO. 14390

J. N. 0367.33



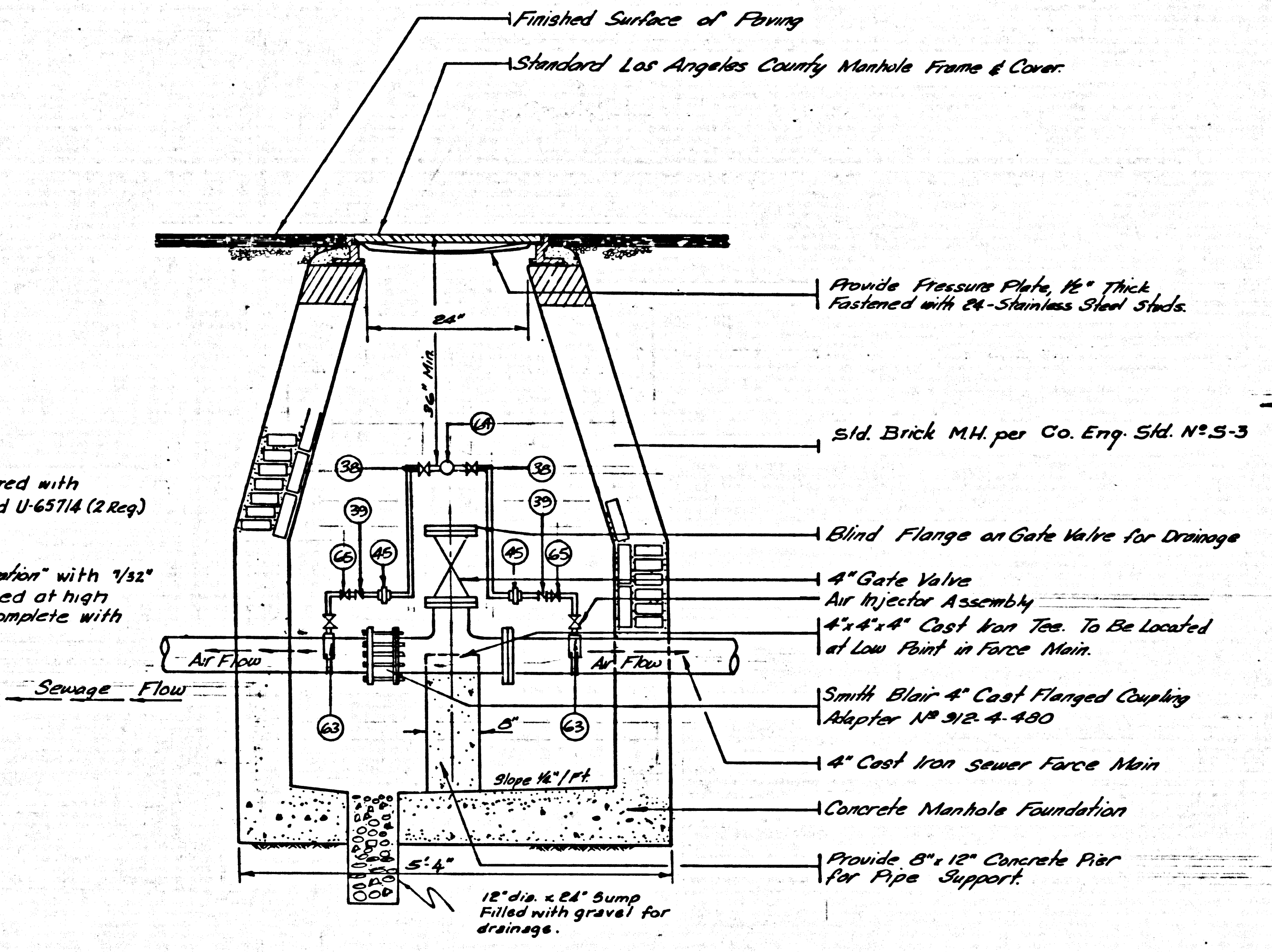


40153

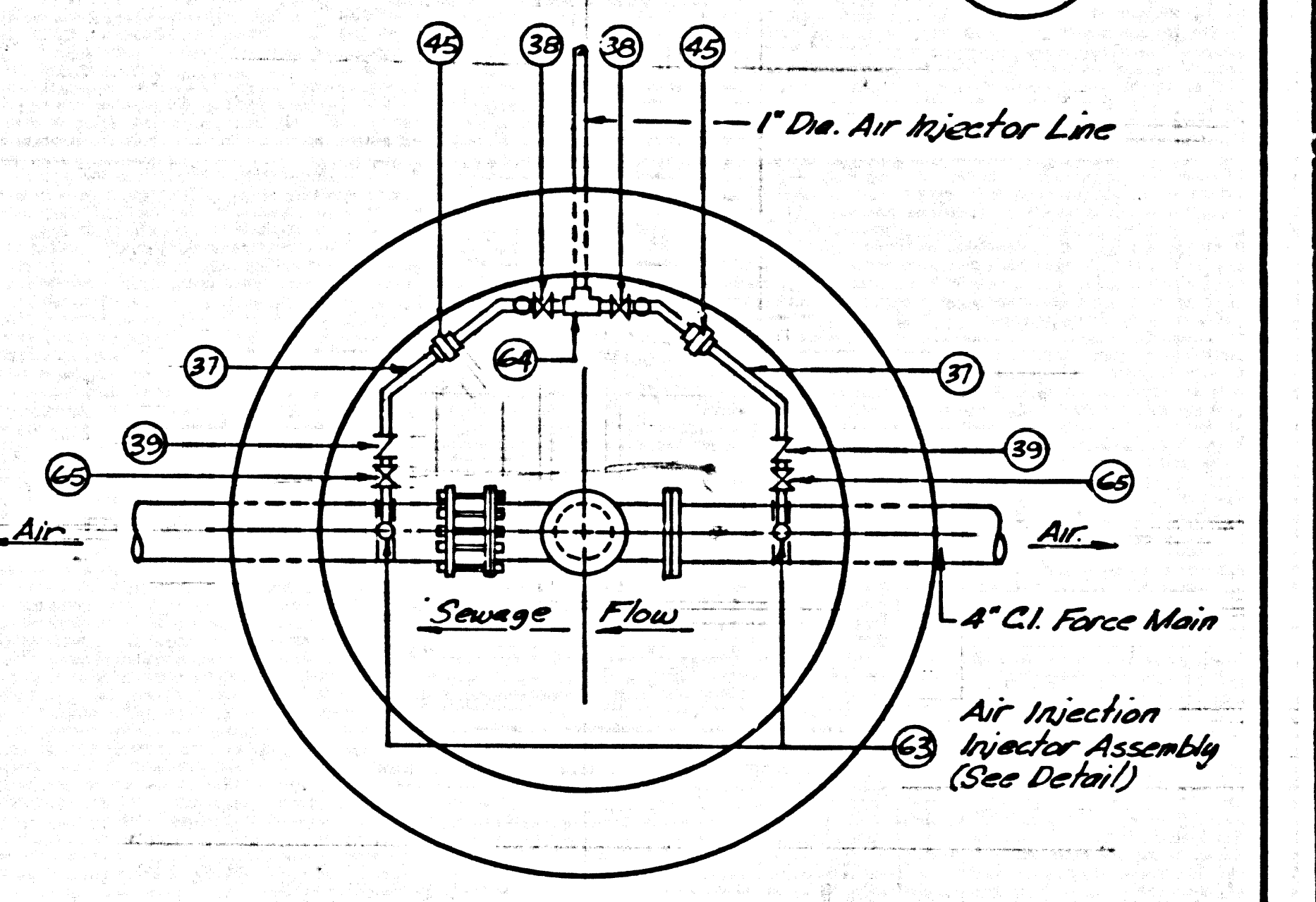


DETAIL OF AIR RELEASE VALVE AND COVER
NOT TO SCALE

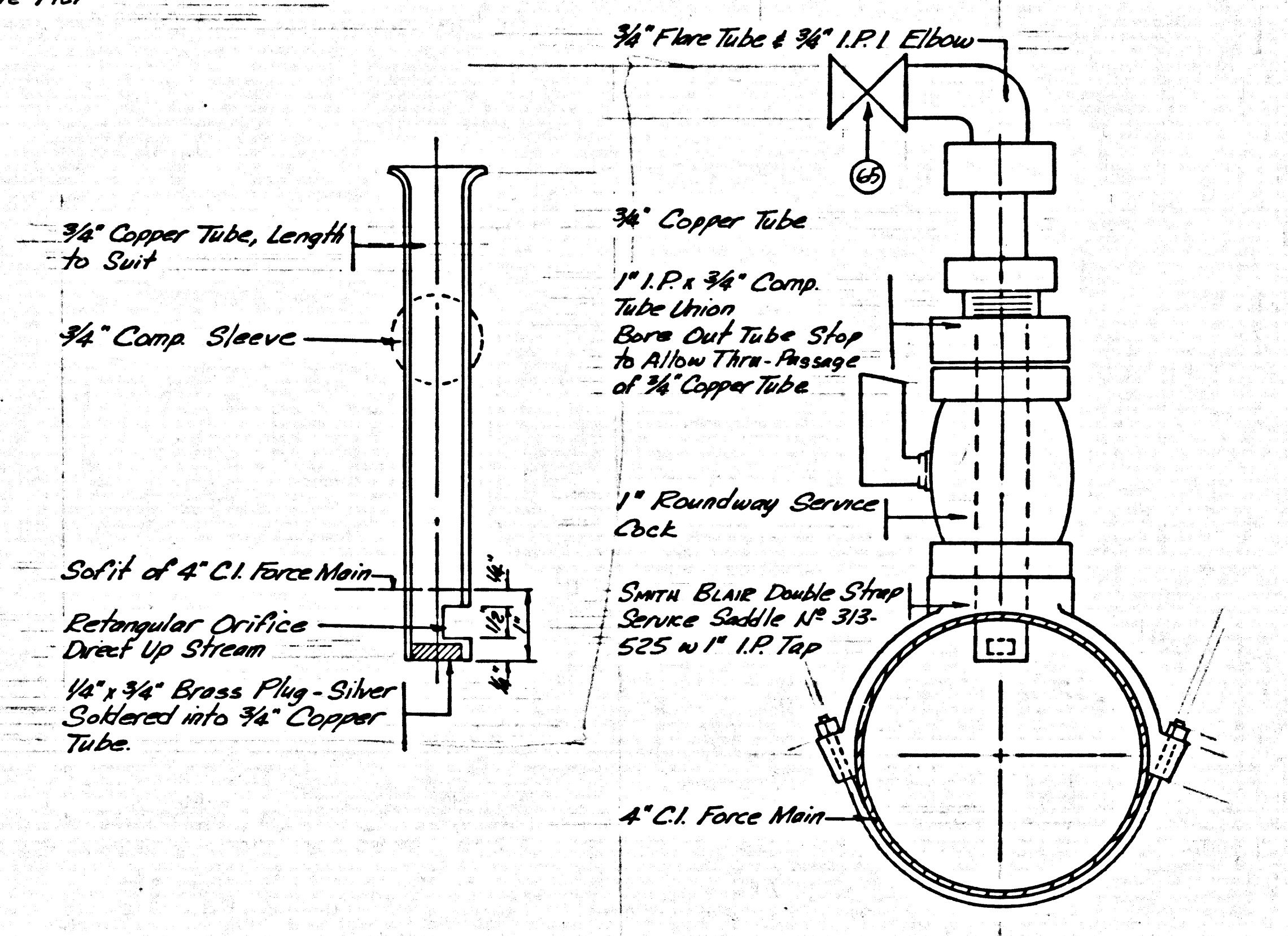
- NOTES**
1. Provide 2 Sargent Padlocks # 763-HSKA - Keyed U-6571A
 2. Paint Valve Cover & Flange Bore with per Note on Page 112-B



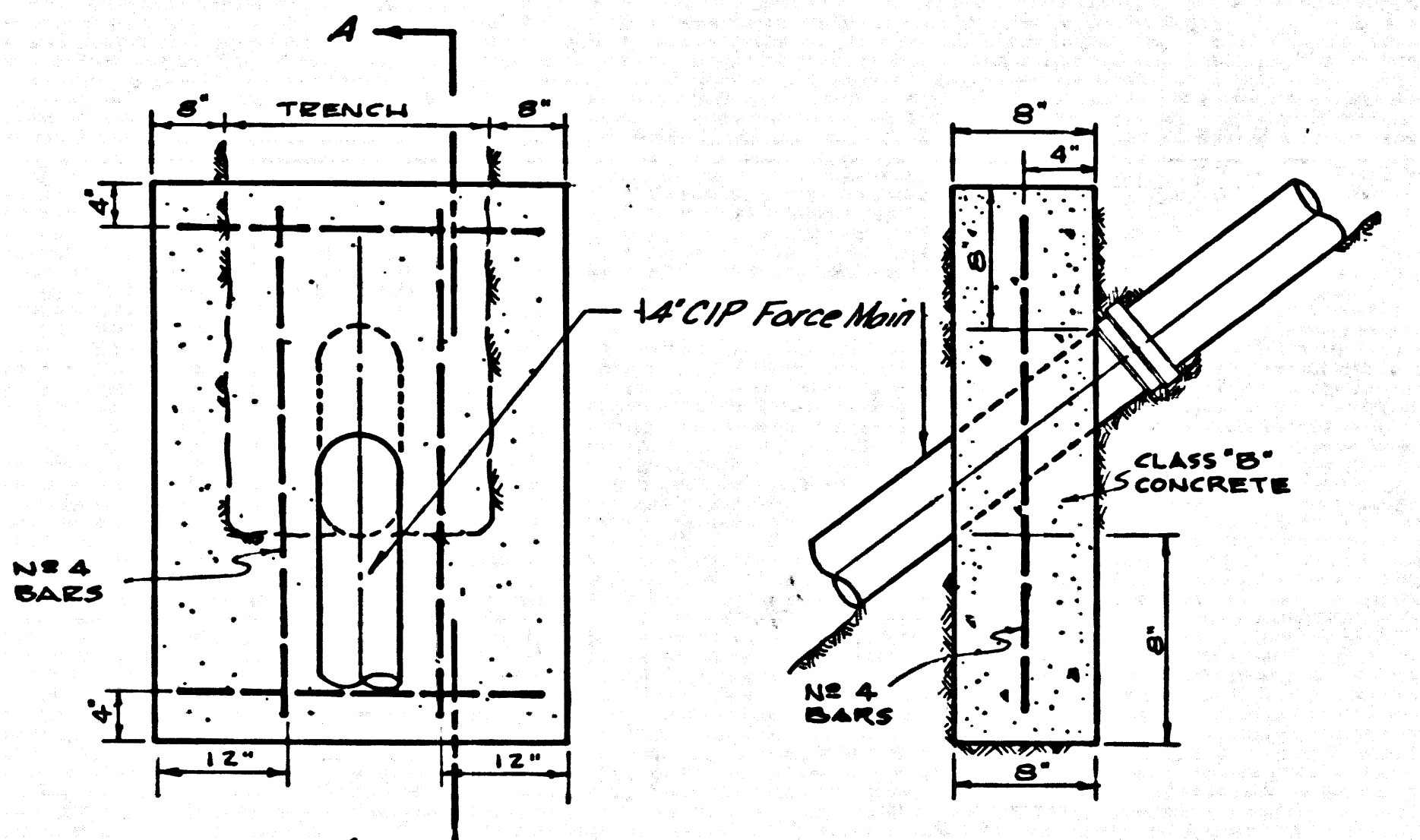
SECTION THROUGH MANHOLE SHOWING DRAINAGE VALVE
NO SCALE



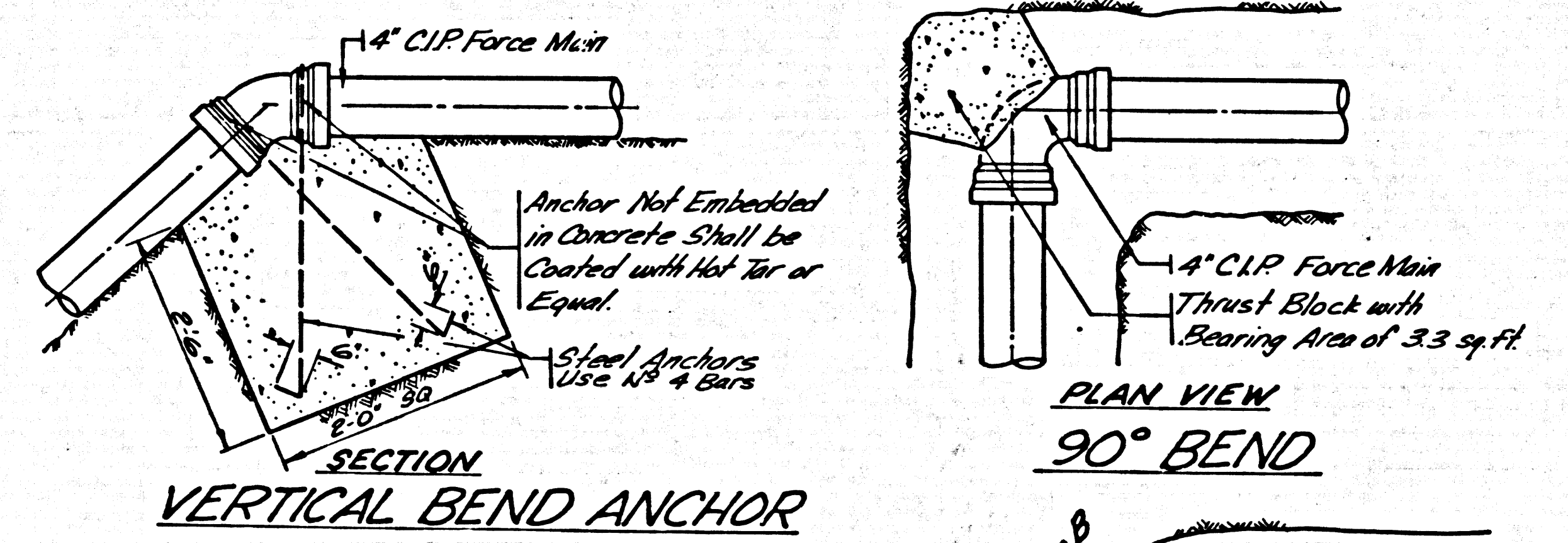
MANHOLE AIR DUCT DETAIL
NO SCALE



AIR INJECTION INJECTOR ASSEMBLY
NO SCALE

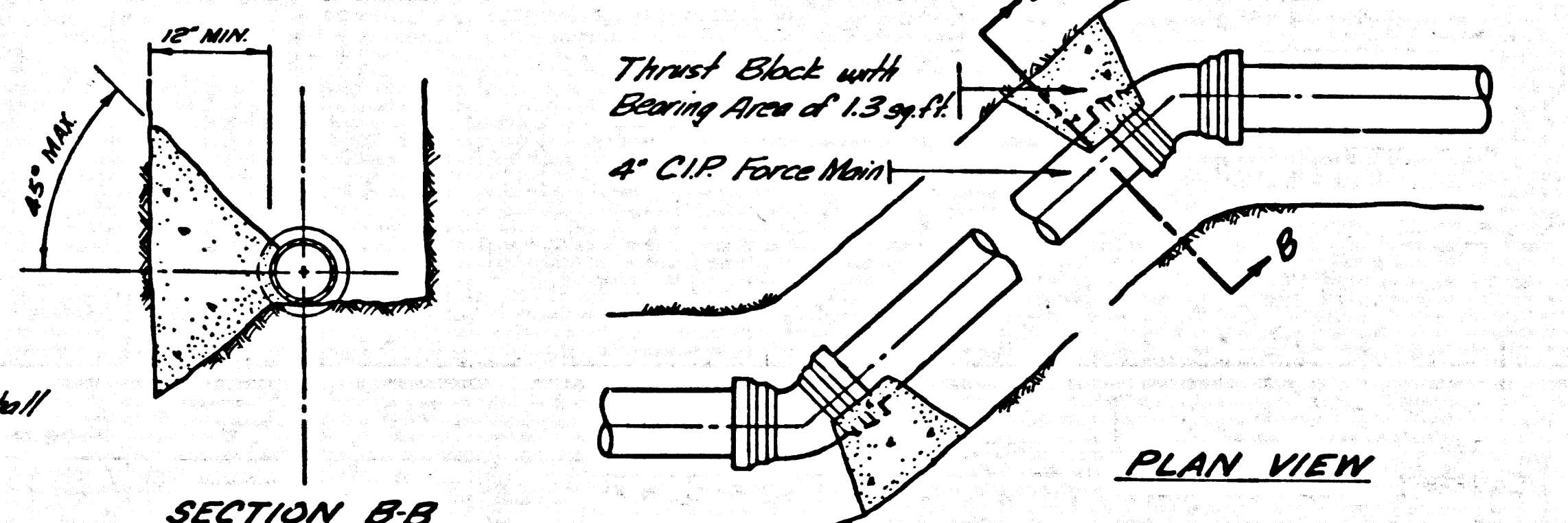


ELEVATIONS



SECTION VERTICAL BEND ANCHOR

PLAN VIEW 90° BEND



SECTION LESS THAN 90° BEND

DETAILS OF FORCE MAIN ANCHOR WALLS AND THRUST BLOCKS
NO SCALE

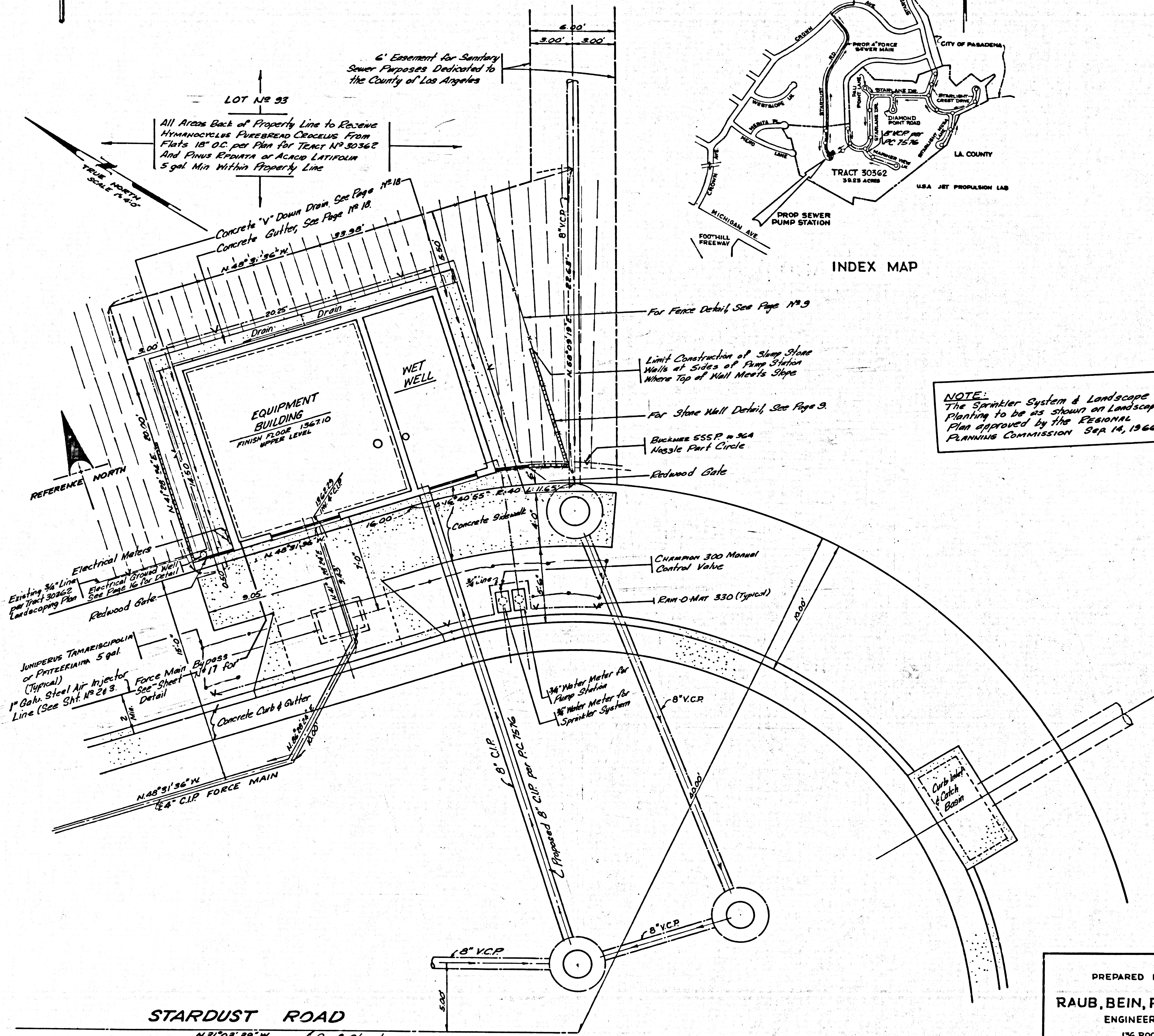
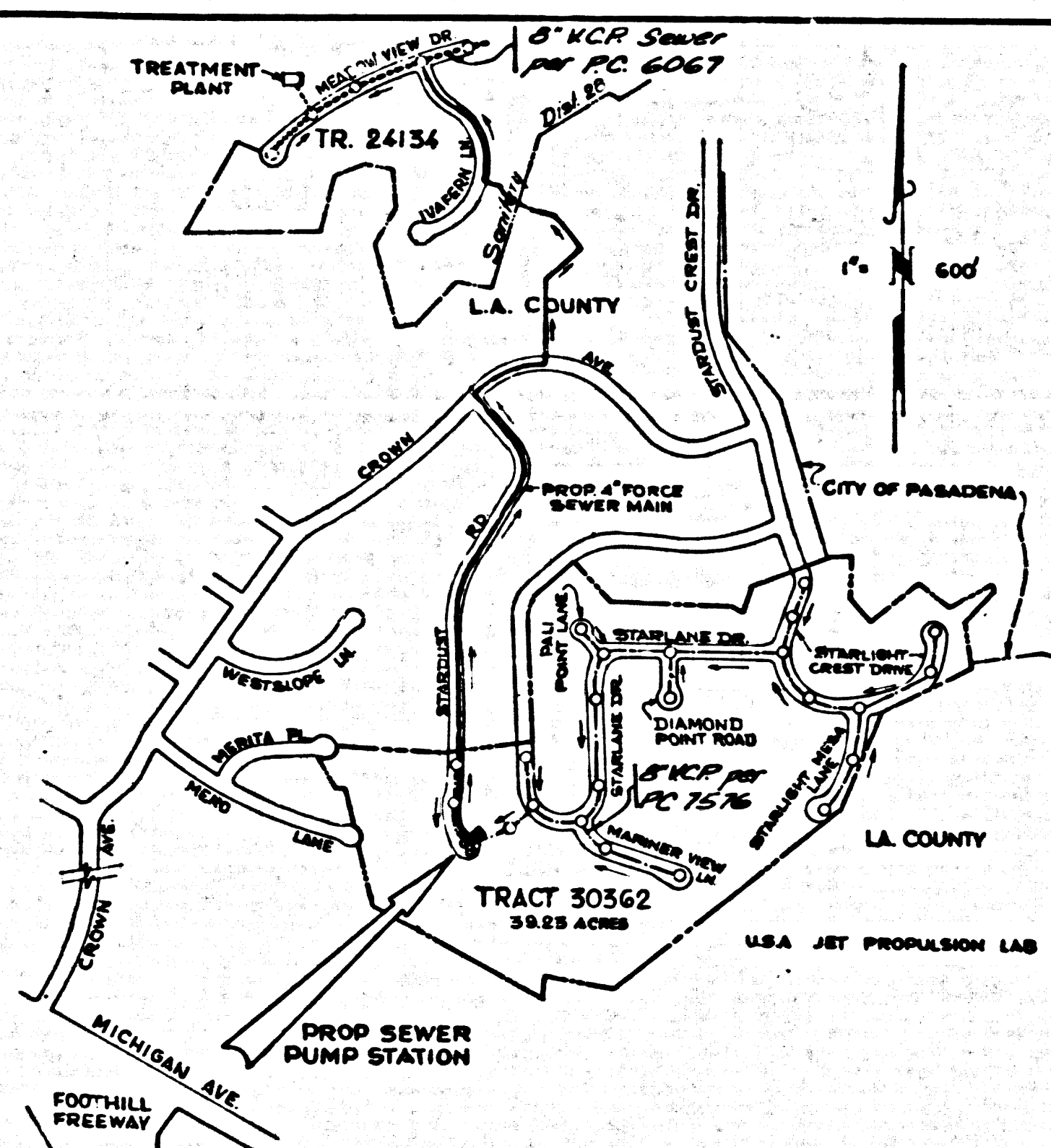
- NOTE** Anchor Walls Shall Be Equally Spaced One per Pipe Length
- ANCHOR WALL**
ANCHOR WALL TO CONFORM WITH COUNTY ENGINEER STANDARD 5-24
- NOTES**
1. Deflection angles greater than 15° shall be provided with thrust blocks as shown.
 2. All Thrust Block Bearing Faces Shall Be Flared Against Undisturbed Soil or Approved Compacted Back-Fill.
 3. Concrete Shall Be Class "B" (5 Sacks per Cu Yd.)

TRACT N° 30362		
SEWAGE PUMP STATION		
P.C. 7576 B	J.N. 036733	
FORCE MAIN DETAILS		
COUNTY OF LOS ANGELES CALIFORNIA		
JOHN A. LAMBIE		COUNTY ENGINEER
DESIGNED JGR	TRACED JBC	CHECKED JGR
SCALE AS SHOWN	DATE JULY 1966	PAGE 6 OF 18 PAGES

REV AIR INJECTOR SYSTEM

BENCH MARK LA CANADA BY 4514
 C.S. MONUMENT IN WELL 18" DI. CL. MICHIGAN
 AVE. 50 FT. E. W. CL. DALERIDGE RD
 1965 ELEV. 1186.806

40154



NOTE:
 The Sprinkler System & Landscape
 Planting to be as shown on Landscape
 Plan approved by the Regional
 Planning Commission Sep. 14, 1966

STARDUST ROAD
 N31°03'39"W L& of Street

PLOT PLAN
 SCALE 1" = 4'-0"

TRACT N° 30362
 SEWAGE PUMP STATION
 P.C. 7576 B J.N. 0367.33
 PLOT PLAN ~ LOCATION MAP
 SHEET INDEX

PREPARED IN THE OFFICE OF
 RAUB, BEIN, FROST & ASSOCIATES
 ENGINEERS SURVEYORS
 156 ROCHESTER STREET
 COSTA MESA, CALIF.
 PH. 548-7125

COUNTY OF LOS ANGELES CALIFORNIA
 JOHN A. LAMBIE COUNTY ENGINEER

Prepared by
 ROBERT W. BEIN, P.C.E. 18780

DESIGNED: J.G.R. TRACED: J.B.C. CHECKED: J.G.R.
 SCALE: AS SHOWN DATE: JULY 1966 PAGE 7 OF 18 PAGES

KEY AIR INJECTOR SYSTEM

GENERAL NOTES:

- The Contractor shall verify all dimensions.
- The pumping equipment manufacturers representative shall supervise the installation, starting and testing of the equipment.
- All construction joints to be waterproof. There shall be no trace of water leaks into pump station upon completion of the project.
- All work and materials to be guaranteed for not less than one (1) year.
- Concrete shall be Portland Cement Concrete and shall develop a minimum compressive strength of 3000 P.S.I. at 28 days.
- Bedding and backfill shall be compacted to 90% relative density. Backfill shall not be compacted by flooding, sluicing or jetting or by any other hydraulic method which will saturate the soil.
- Backfill shall be from the material excavated or shall be a granular material approved by the County Engineer.
- All practices and procedures, materials and placement of materials shall conform in every respect to the Los Angeles County Building Laws, 1965 Edition and to the County of Los Angeles Standard Specifications for the Construction of Sanitary Sewer dated May 25, 1962 as revised, or as otherwise directed by the County Engineer.
- All permits shall be obtained and paid for by the Contractor.
- The Contractor shall supply all material and equipment unless otherwise noted.
- The Contractor shall furnish and install painting for the lift station from the Invertoil Paint Company. All paint shall be applied in strict accordance with the manufacturers recommendations and per Painting Schedule shown on this page.
- Notches or grooves around openings in concrete shall be provided as required to receive manhole frames and accessories. Dimensions and positions where not specified for conduits, frames and accessories shall be determined from the layout details and from manufacturers shop drawings.
- No revisions shall be made in these plans without the approval of the County Engineer.
- The Contractor shall notify the Construction Division by telephone Madison 9-4747 Ext. 81551, at least twenty four hours before starting any work under this contract.
- Resurface all trenches within paved areas to meet Los Angeles County Road Dept. or California State Highway requirements in accordance with permits.
- All State and Local Trench Safety Orders to be strictly enforced.
- The Pumping Station is to be tested for water hammer. If such condition exists the Owner shall provide protection prior to the acceptance of the project by the County or Los Angeles.
- During the initial operation of the Pumping Station, the facility shall be tested for sulfide generation. If it is determined by the County Engineer that such a condition exists, the Owner shall provide an air injection system for sulfide control prior to final acceptance of the project by the County or Los Angeles.

REGIONAL PLANNING COMMISSION REQUIREMENTS:

- The property shall be maintained to prevent the accumulation of debris thereon.
- The facility shall be developed in accordance with the requirements of the Los Angeles County Health Department.
- The Pumping Plant shall be constructed prior to the sale of homes on lots 4, 2, 3, 4 and 5 of Tract No. 30362.

PLUMBING NOTES:

- Piping 1 1/2" and smaller unless otherwise noted shall be Schedule 40 galvanized steel pipe with 150 lb. malleable iron galvanized screwed fittings.
- Piping for the Bubble Control shall be 3/4" PVC in wet well, with solvent cement fittings.
- The Contractor shall furnish and install all hangers and supports necessary to provide a complete piping suspension system.
- All fittings and valves shall be flanged Class No. 125 Cast Iron.
- The Force Main shall be Class 150 in accordance with Sec. 40 of the Standard Specifications of Los Angeles County dated May 25, 1962 and as revised.
- The Force Main shall be tested with 50 P.S.I. above the T.D.H.

ELECTRICAL NOTES:

- The Contractor shall contact and make arrangements with the Southern California Edison Company for power and service.
- The Electrical Contractor shall run a #4 bare copper MHD ground wire and attach as per code to all metal piping, pump plates and steps.
- The electrical work shall be installed in strict accordance with the provisions of the National Electrical Code, State Safety Orders and all applicable local codes.
- Conduit runs are shown diagrammatically, exact location shall be determined in the field to suit field conditions.
- All electrical equipment in the wet well to be explosion proof per Class I, Division 1, of State Electrical Safety Orders. Seal conduits into this area. All electrical in dry wells shall be vapor tight gasket area. Seal all conduits into this area.

STRUCTURAL NOTES:

- Steel reinforcement shall be structural grade steel deformed bars with deformations conforming to ASTM Specifications. Bar bands and hooks shall conform to be American Concrete Institute Manual for Standard Practice.
- Bar sizes are given in terms of bar number. Bar spacing shown in inches is center to center of bars. Distances shown from face or edge of concrete surface is to center of bars unless otherwise shown as C/C (Clear).

PLUMBING MATERIAL SCHEDULE AND QUANTITIES

NO.	DESCRIPTION OF ITEM	AMOUNT	UNIT
1	WEMCO Torque Flow Pump Model "C" with 4" Suction & 3" Discharge 1876TDH1200rpm	2	Ea.
2	WEMCO Torque Flow Pump Model "C" with 3" Suction & 3" Discharge 1876TDH1200rpm	2	Ea.
3	US ELECTRICAL MOTORS, Vertical Solid Shaft Motor, 30 HP @ 1800 RPM 440 V, 3Ø, Model MA-KV-A-326 UC with Style C Mounting Base	4	Ea.
4	4" C.I. Gate Valve CEANE No. 461, Brass Trim with Nourising Stem	7	Ea.
5	4" SMITH-BLAIR Coupling Adaptor No. 912-4-480	6	Ea.
6	4" C.I. Spool, 11 3/4" Long	2	Ea.
7	4" 90° C.I. Elbow	2	Ea.
8	3" C.I. Spool, 14 1/2" Long	2	Ea.
9	3" 90° C.I. Elbow	2	Ea.
10	3" 4" Reducing Check Valve, RENSSELAER No. 940 with outside spring	2	Ea.
11	4" C.I. Spool, 2' 2 1/2" Long	2	Ea.
12	3/4" 90° Steel Elbow	8	Ea.
13	4" C.I. 45° Elbow	2	Ea.
14	4" x 4" x 4" 45° C.I. Wye	2	Ea.
15	4" C.I. Spool, 14 1/2" Long	2	Ea.
16	4" C.I. Spool, 2' 5 1/2" Long	1	Ea.
17	4" C.I. Spool, 2' 11 1/2" Long	1	Ea.
18	4" 90° C.I. Base Elbow with Square Base	3	Ea.
19	Flexible Drive Shaft WATSON-SPICER, Type WV-A-27 with 3/16" x 0.065 Tubing Length of Shaft 92 1/4"	4	Ea.
20	Flexible Drive Shaft WATSON-SPICER, Type WV-B-27 Length of Shaft 20 1/8"	2	Ea.
21	2' 6" Square Bilco Steel Door Hatch, Type "V"	1	Ea.
22	ALUMINUM FOUNDARY C.I. Box & Locking Device per Detail on Sheet No. 17	1	Ea.
23	200 Watt Light Fixture CREOUSE-HUUS Type VC Form 200	6	Ea.
24	Lifting Insert, RICHMOND SCREW ANCHOR Co Type, LCB, 1/2"	2	Ea.
25	BRECO Backflow Preventer Model No. 12 for 3/4" Service	1	Ea.
26	LEVINS X-Bar Grating Type A-A Rectangular Design, 35 3/4" x 35 3/4" with 3/4" x 1/2" Steel Bars	1	Ea.
27	Sump Pump YEOMANS DRAIN DRY Model SD2 Complete with 440 V 3Ø 1/2" N.P. @ 1750 RPM Motor & Diving Bell	1	Ea.
28	1 1/2" Gate Valve	1	Ea.
29	1 1/2" Check Valve	1	Ea.
30	1 1/2" Dia. Steel Pipe Discharge Line from Sump Pump	8	LF
31	BUFFALO BABY Vent Set Model "C", AIO CFM, Complete with 110V, 1/2" N.P.D. 1785 RPM Motor with Non-sparking Aluminum Wheel	1	Ea.
32	6" Ø Galvanized Steel Air Duct for Ventilation System	23	LF
33	4" C.I. Pipe in Pump Station	8	LF
34	Pipe Hangers, 1/2" Ø Steel Rod with ALUMINUM Pipe Hanger No. A-618 for 4" Pipe	2	Ea.
35	Steps for Wet Well, 3/4" Ø Galvanized Steel, ALUMINUM No. A-3312 (4 Handles)	10	Ea.
36	3/4" Poly Vinyl Chloride Pipe	4	LF
37	3/4" Dia. Steel Pipe	-	LF
38	3/4" Gate Valve for Steel Pipe	6	Ea.
39	3/4" Check Valve for Steel Pipe	6	Ea.
40	RICHMOND LCB 1/2" Lifting Insert & RICHMOND LEB 1/2" Lifting Eyebolt	14	Ea.
41	1 1/2" Union for Steel Pipe	2	Ea.
42	0-300 P.S.I., 2 1/2" Maximum Flow 1/2" Tap Line and Provide Nipples, 90° Elbows and Stop Cocks for Easy Removal Complete	5	Ea.
43	200 Watt A-23 Light Fixture CREOUSE-HUUS Type EVCK	1	Ea.
44	1 1/2" Standard Cross with 2-Flugs	2	Ea.
45	3/4" Union for Steel Pipe	11	Ea.
46	4" C.I. Spool, Length to be determined in field	1	Ea.
47	4" x 4" x 4" C.I. Tee	1	Ea.
48	4" x 4" x 2" C.I. Tee with Blind Flange	1	Ea.
49	2" Ø Steel Pipe Support with 1/2" x 5/8" Steel Plates welded to each end	2	Ea.
50	Flexible Drive Shaft, WATSON-SPICER, Type WV-A-27 with 3/16" x 0.065 Tubing Length of Shaft 85 1/4"	2	Ea.
51	1 3/4" CHICAGO BEARING SWIFT Aligning Ball Bearing Pillow Block Attached to 3/8" x 1 1/2" Steel Angle, 18" Long	2	Ea.
52	Expanded Metal Shaft Guards	4	Ea.
53	4" C.I. Force Main & Fittings	3479	LF
54	Manhole and Drainage Valve Complete per Detail on Page No. 6	1	Ea.
55	APCO Sewage Air Release No. 400 & Valve Cover Complete per Detail on Page 6	1	Ea.
56	4" C.I. Force Main Jacketed through 36" Dia. Steel Casing	75	LF
57	Esso-Cumey F-325 Two Stage Air Cooled Reciprocating Compressor Unit Mounted on a 20" x 45" x 80 Gal. Horizontal Air Tank ASME with Aftercooler No. 6224 and Moisture Separator No. 5075 with Bell Guard	1	Ea.
58	1" Dia. Galv Steel Pipe Sch. 40 Air Injector Line & Fittings wrapped with HUNTS Process No. 1	1000	LF
59	1" Union IP Thread	-	Ea.
60	1" Gate Valve IP Thread 200 lb.	1	Ea.
61	3/4" Stop Cock IP Thread	1	Ea.
62	1" Check Valve IP Thread 200 lb.	2	Ea.
63	Force Main Air Injector Assembly Complete per Detail on Page No. 6	1	Ea.
64	3/4" x 3/4" x 1/2" C.I. Tee	2	Ea.
65	CEANE No. 88 3/4" Regulating Valve. Bronze with 200 lb.	2	Ea.

OPERATING REQUIREMENTS:

Operation shall be either by Manual or Automatic control. Under Automatic Control, the first stage pumping unit shall start by actuation of the BARKSDALE switch thru the ALTOREOL when the sewage in the wet well reaches Elev. 1359.03. After 3 seconds, at which time the lead pump is operating at the designed head, the second stage pump will start by means of a Time delay relay. Both units shall continue to run a minimum of 5 minutes, or until the sewage in the wet well is pumped down to Elev. 1356.03. The BARKSDALE switch will shut off the second stage pump, the first stage pump being held in for an additional 3 seconds, thereby stopping the pressure down gradually. The pumping operations will be alternated between the first and second sets of pumps by the ALTOREOL. Either pumping unit, or both, may be run continuously by switching the control lever to the "Hand" position. In the event that the pumping unit fails to operate thru the ALTOREOL, when the sewage in the wet well reaches Elev. 1359.03, the 100% Standby BARKSDALE switch will actuate a relay, bypassing the ALTOREOL and thereby actuating the alternate set of pumps. In the event that these fail to start, the alarm BARKSDALE switch will turn on the warning light outside the pumping station when the sewage in the wet well reaches Elev. 1359.53. Final timing to be determined and set in Final Test.

40155

PAINTING REQUIREMENTS AND SCHEDULE

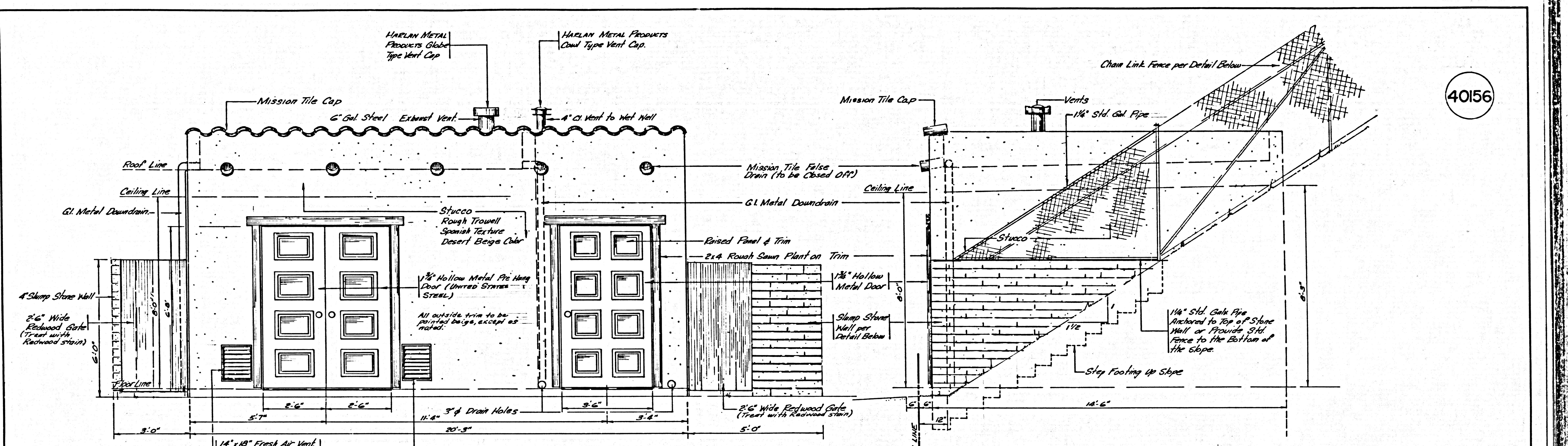
- The Contractor shall furnish and install painting for the lift station from the Invertoil Paint Company as follows:
 - All Piping, Fittings, Machinery and Electrical Cabinets; One coat of No. 626 primer, plus two coats of Torex Enamel (Light Gray No. 306).
 - Interior Concrete Floors and Stair Landings; Two Coats of Ramuc Floor Enamel (Tite Red No. 315).
 - All Non-submerged Tar-dipped Pipe; Colored Enamel with Two Coats of Invertoil Tar-Stop in place priming.
 - Inside Wall Faces; One Prime Coat of Ramuc Alkali-Proof Undercoater and Two Coats of Ramuc Utility Enamel (Blue Green No. 300).
 - The Wet Wells; Invertoil Standard Black on Floors and Walls to a paint 6" above effluent pipe. Walls and Ceiling above this line to be painted with Rigother No. 3324 and manufacturers recommended primer (White).
 - The Air Release Valve Cover & Fire Barricades; One Coat of No. 626 Primer, plus Two Coats of Ramuc Utility Enamel (Eye Rest Green No. 363).

TRACT No 30362
SEWAGE PUMP STATION
P.C. 7576 B J.N.0367.33

MATERIAL SCHEDULE AND NOTES

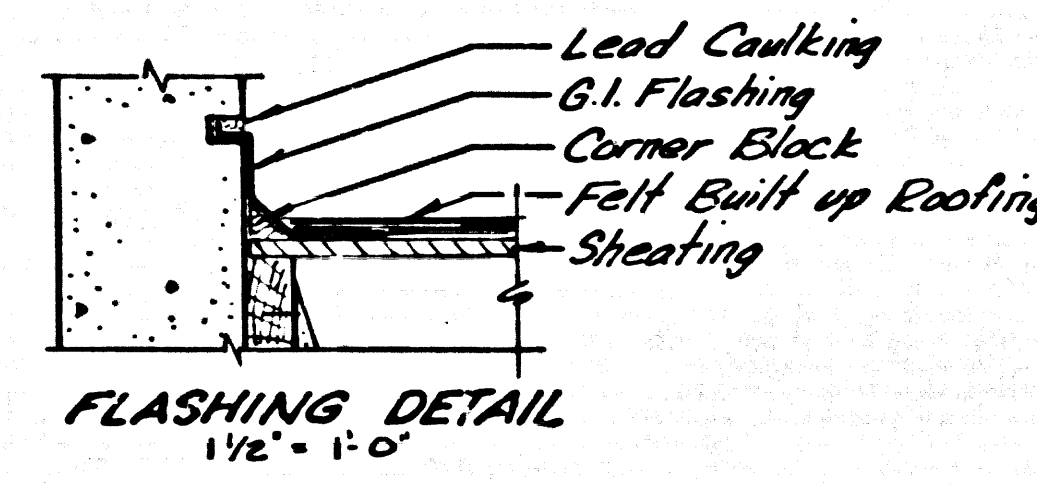
COUNTY OF LOS ANGELES CALIFORNIA
JOHN A. LAMBIE COUNTY ENGINEER

DESIGNED: J.G.E. TRACED: J.B.C. CHECKED: J.G.R.
SCALE: AS SHOWN DATE: JULY 1966 PAGE 8 OF 18 PAGES



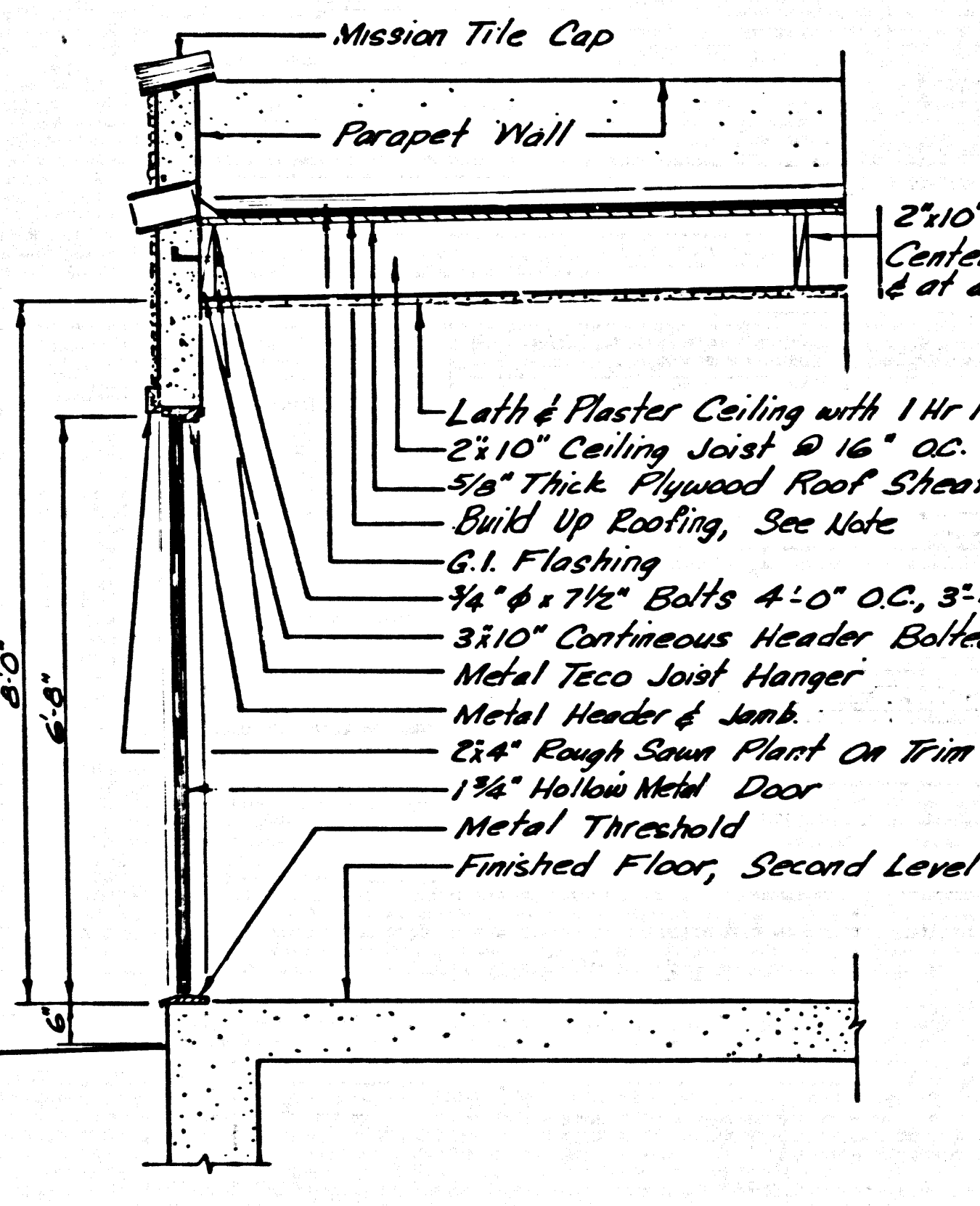
SOUTH ELEVATION
1/2" = 1'-0"

EAST ELEVATION
1/2" = 1'-0"



NOTE:
Provide an Approved Locking Device for All Doors and Gates with Sargent Cylinder Door Locks B7N5 Master Keyed U-65714

NOTICE TO CONTRACTOR:
Continuous inspection by a Registered Deputy Building Inspector shall be maintained during the placing of all concrete.

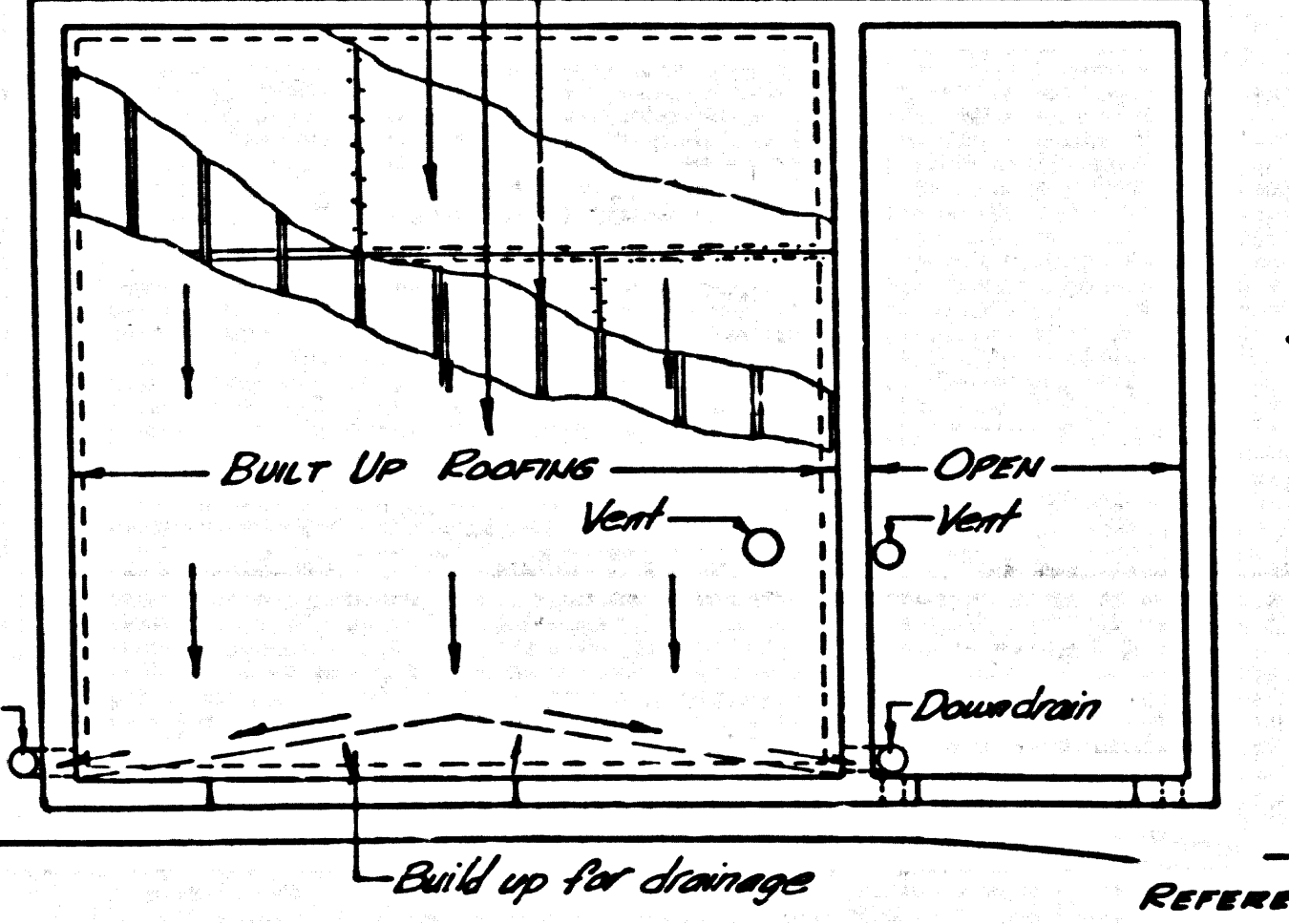


NOTE:
All Structural Lumber (3x10 Header, Rafter, Solid Blocking, etc.) to be Construction Grade S-4-S Douglas Fir or Better.

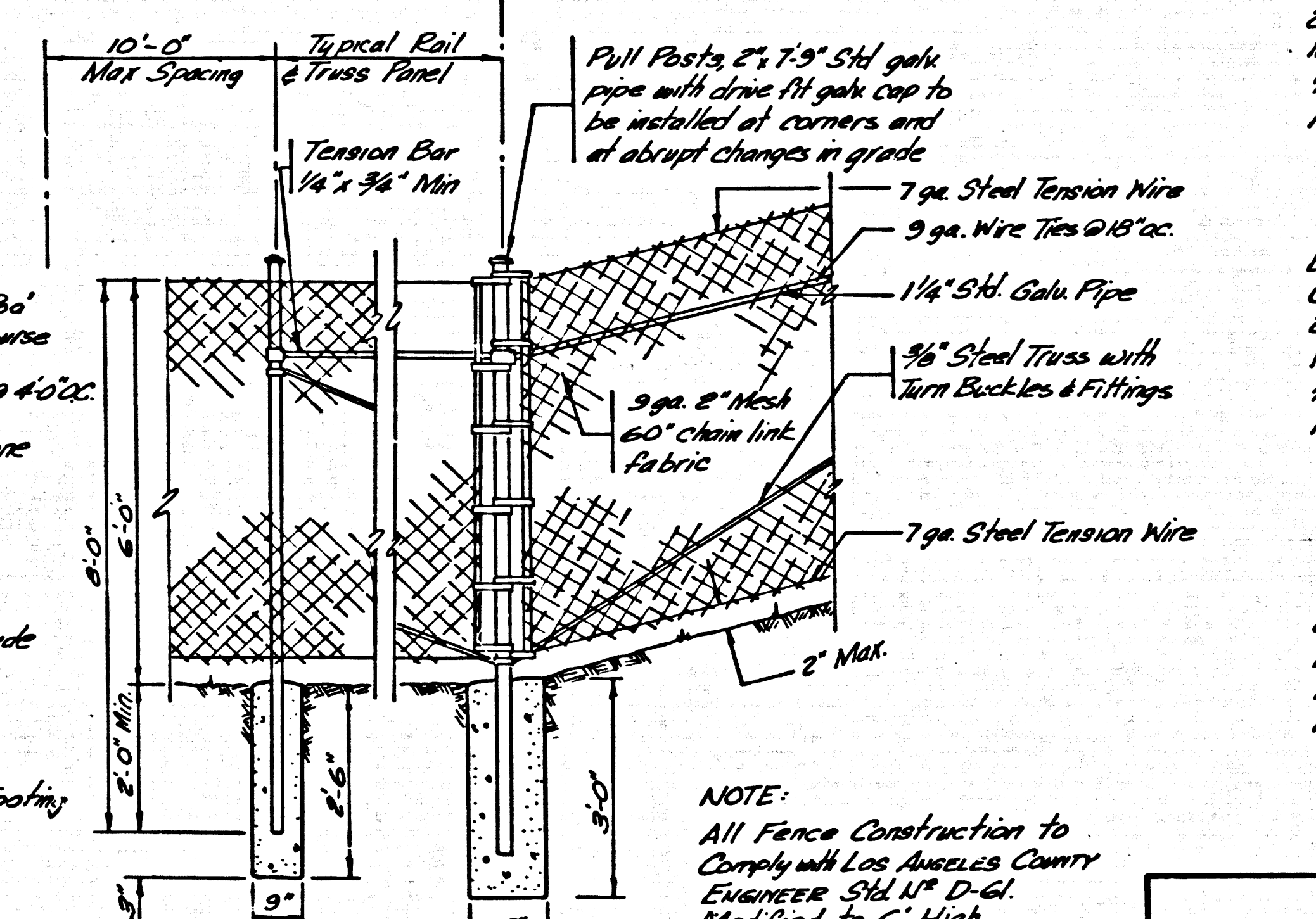
5/8" Thick C.D. Exterior Grade Plywood Roof Sheathing shall be laid lengthwise across ceiling joists with solid blocking at all joints and to be nailed with 6d nails 6" O.C. at panel edges and 12" O.C. at intermediate supports.

Built Up Roofing shall consist of 3 layers of 15 lb. organic or inorganic fiber felt and 400 lb. per roofing square of gravel or crushed rock.

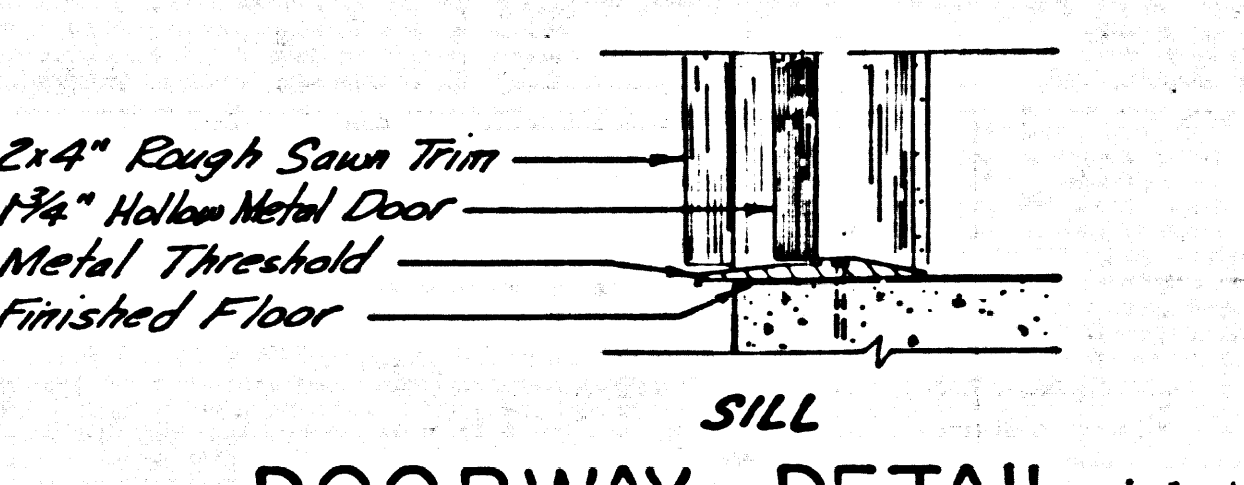
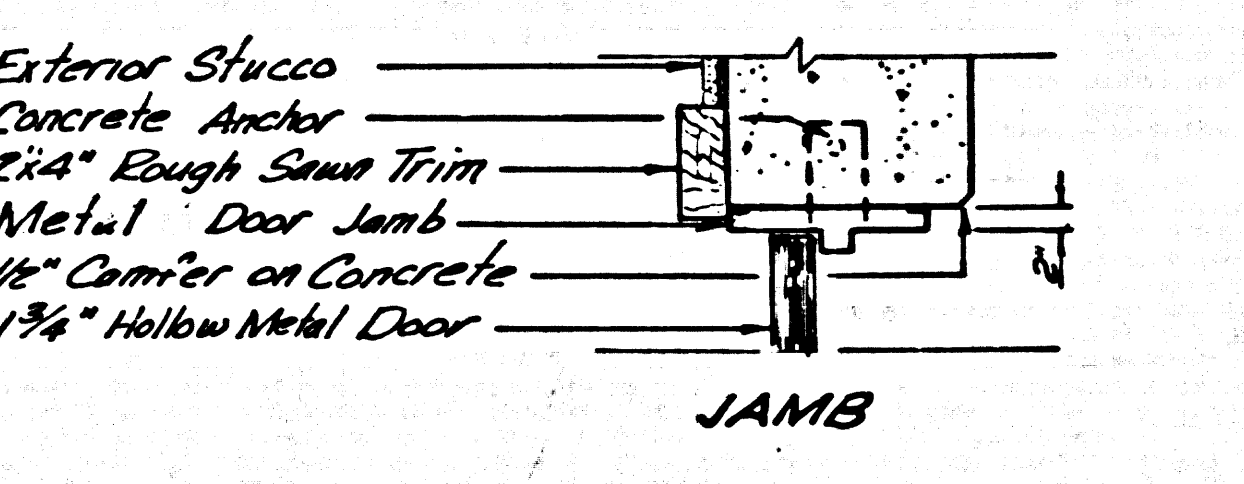
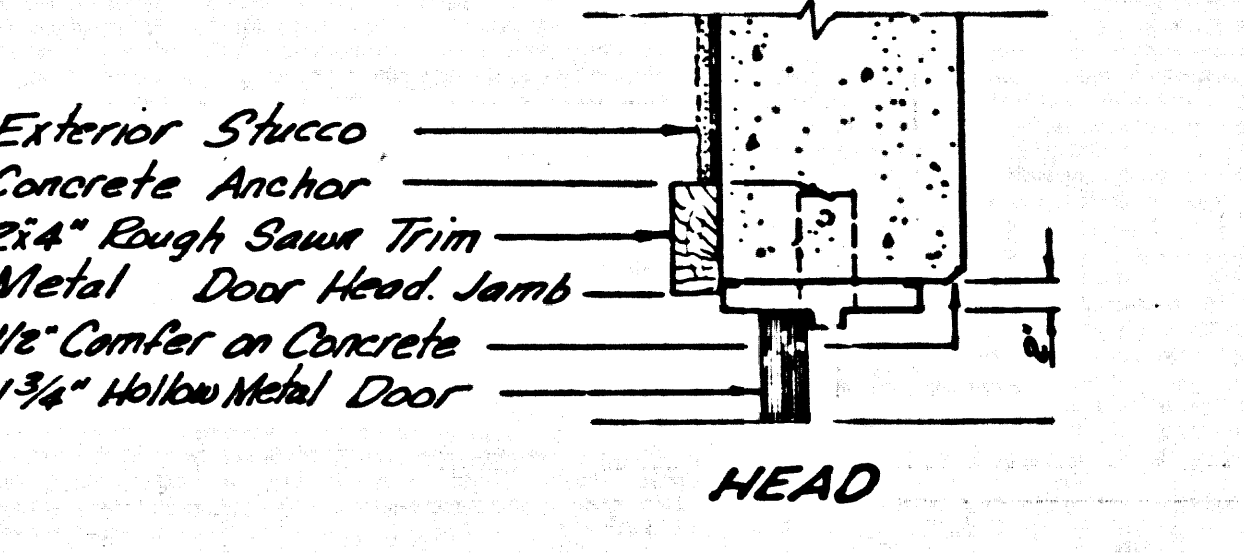
2x10" Ceiling Joist 16" O.C.



WALL DETAIL
1/2" = 1'-0"



NOTE:
All Fence Construction to Comply with Los Angeles County Engineer Std. No. D-61 Modified to 6' High



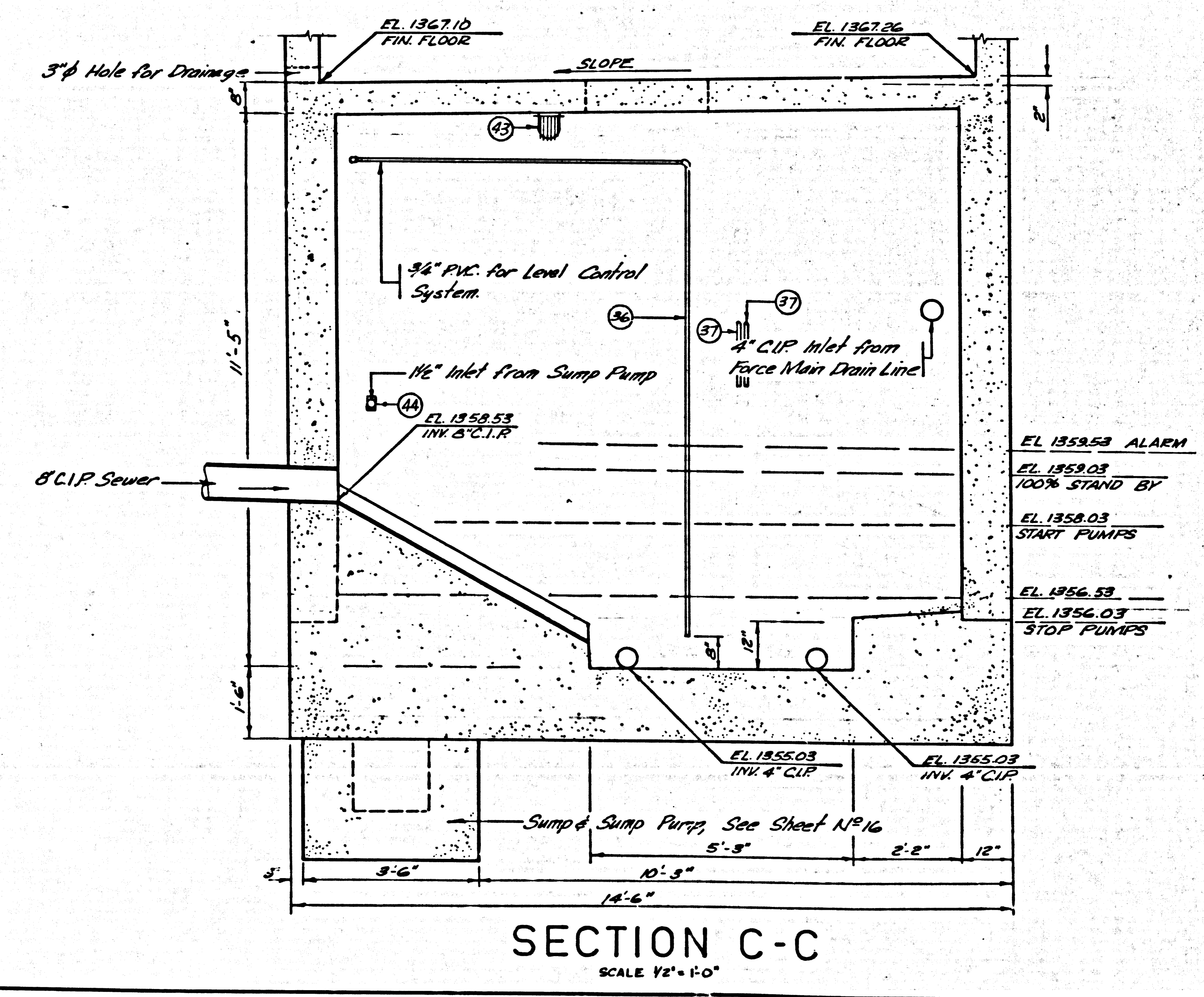
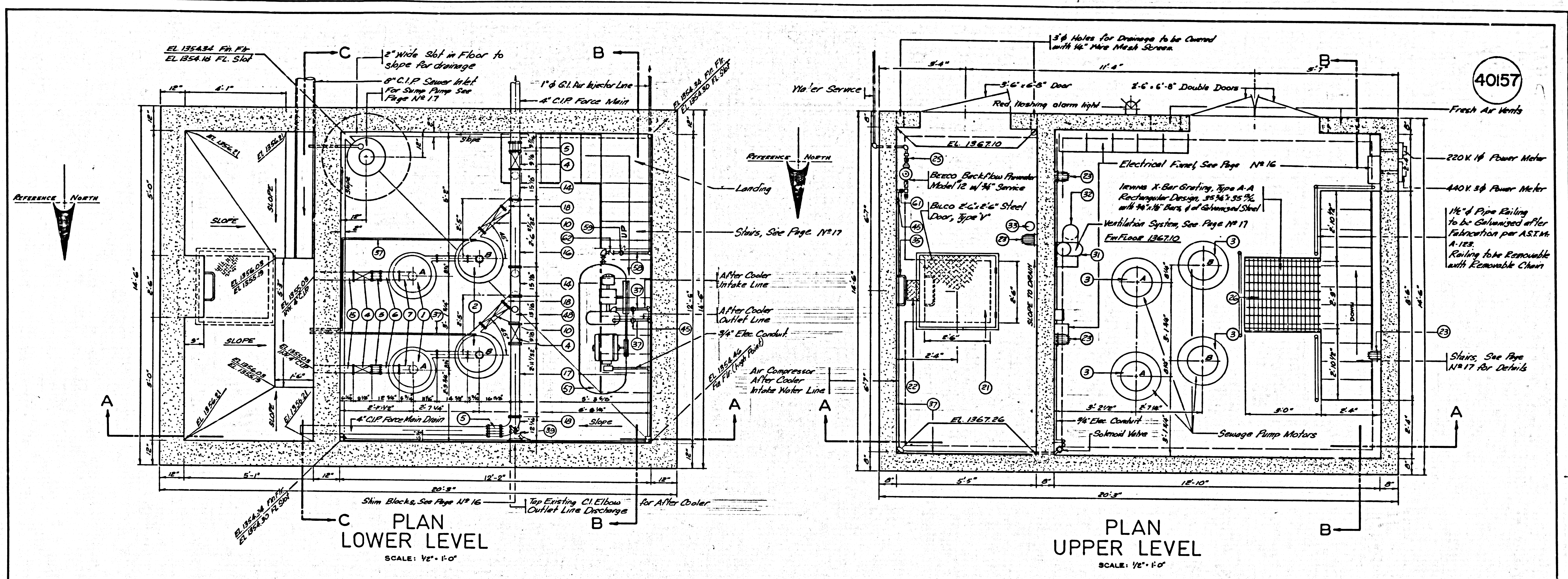
DOORWAY DETAIL
1/2" = 1'-0"

TRACT No 30362
SEWAGE PUMP STATION
P.C. 7576 B J.N.0367.33

BUILDING ELEVATIONS AND
CONSTRUCTION DETAILS

COUNTY OF LOS ANGELES CALIFORNIA
JOHN A. LAMBIE COUNTY ENGINEER

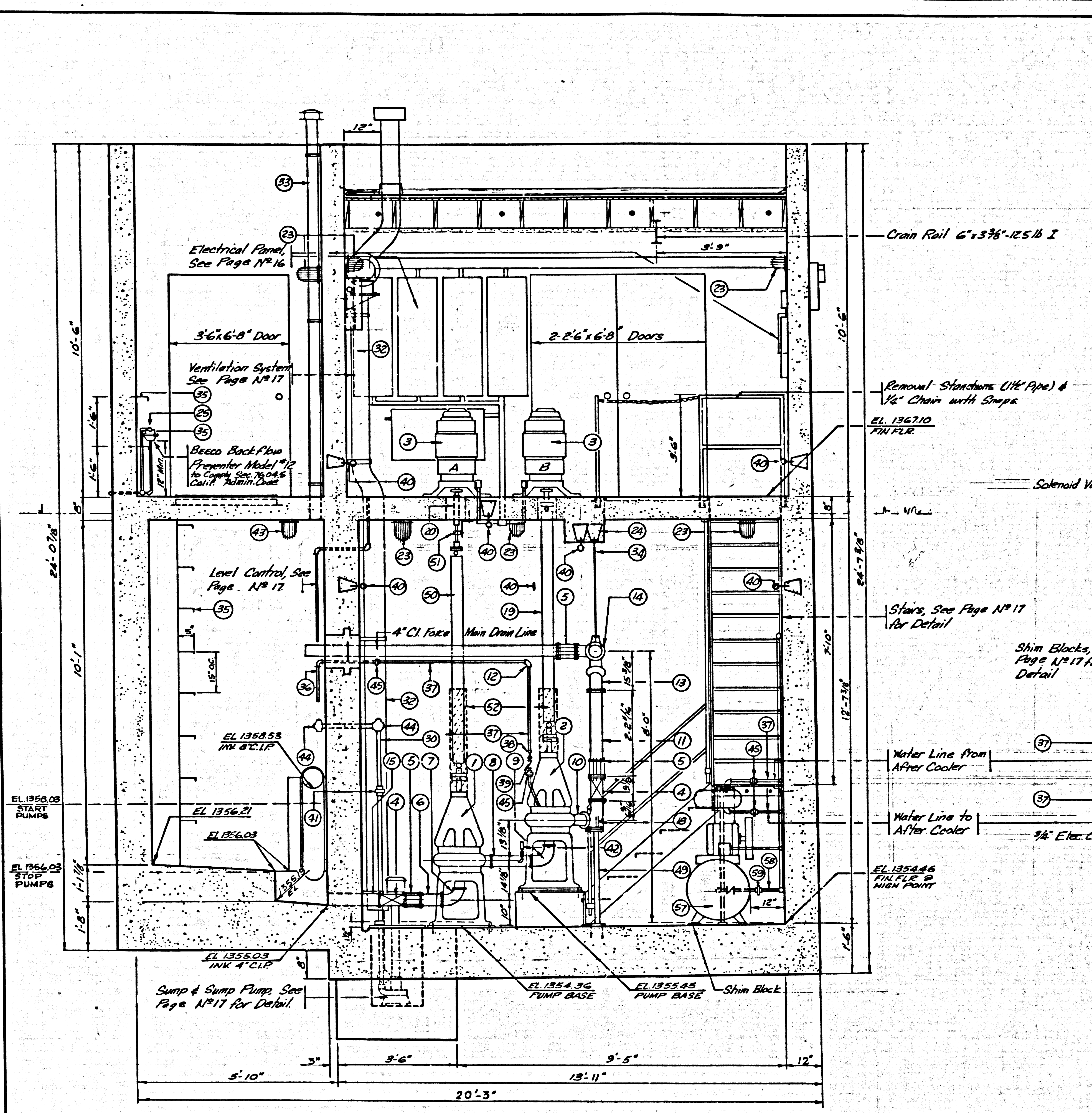
DESIGNED JGE	TRACED JBC	CHECKED JGR
SCALE AS SHOWN	DATE JULY 1966	PAGE 9 OF 18 PAGES



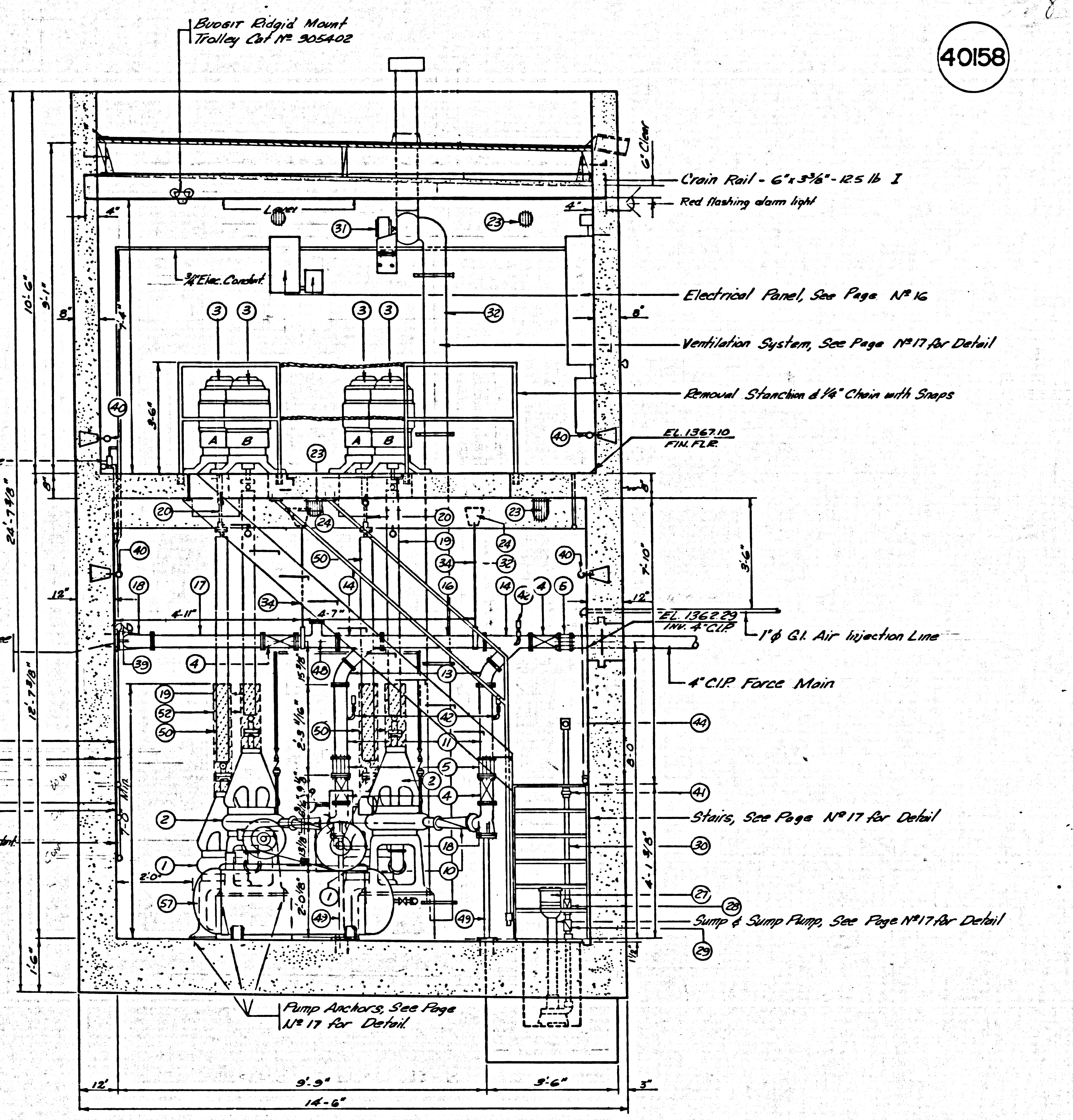
TRACT N° 30362		
SEWAGE PUMP STATION		
P.C. 7576 B	J. N. 0367.53	
PLAN VIEW UPPER LEVEL PLAN VIEW LOWER LEVEL SECTION OF WET WELL		
COUNTY OF LOS ANGELES CALIFORNIA JOHN A. LAMBIE COUNTY ENGINEER		
DESIGNED: JGR	TRACED: JBC	CHECKED: JGR
SCALE: AS SHOWN	DATE: JULY 1966	PAGE 10 OF 15 PAGES

REV. AIR INJECTOR SYSTEM

40158



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

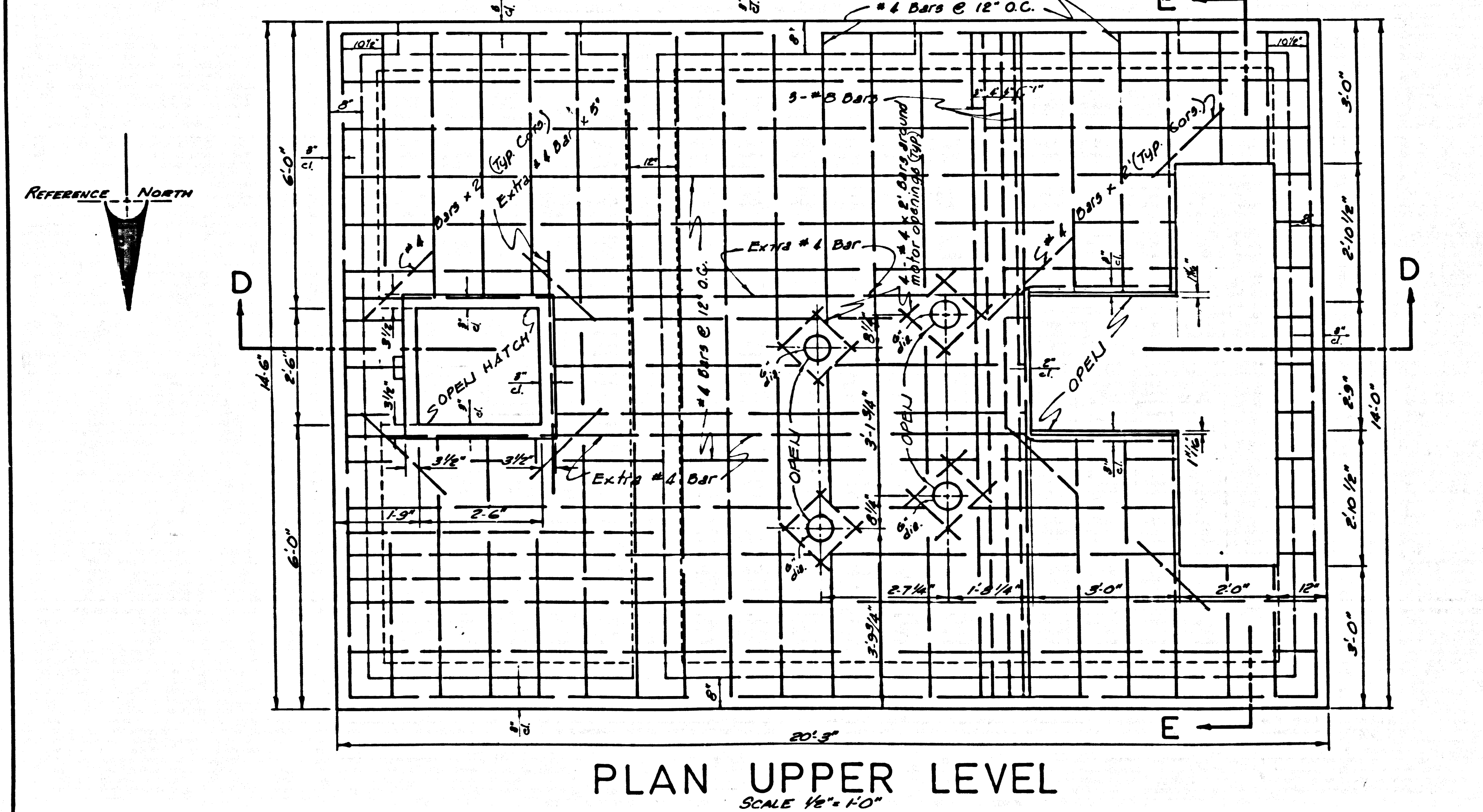
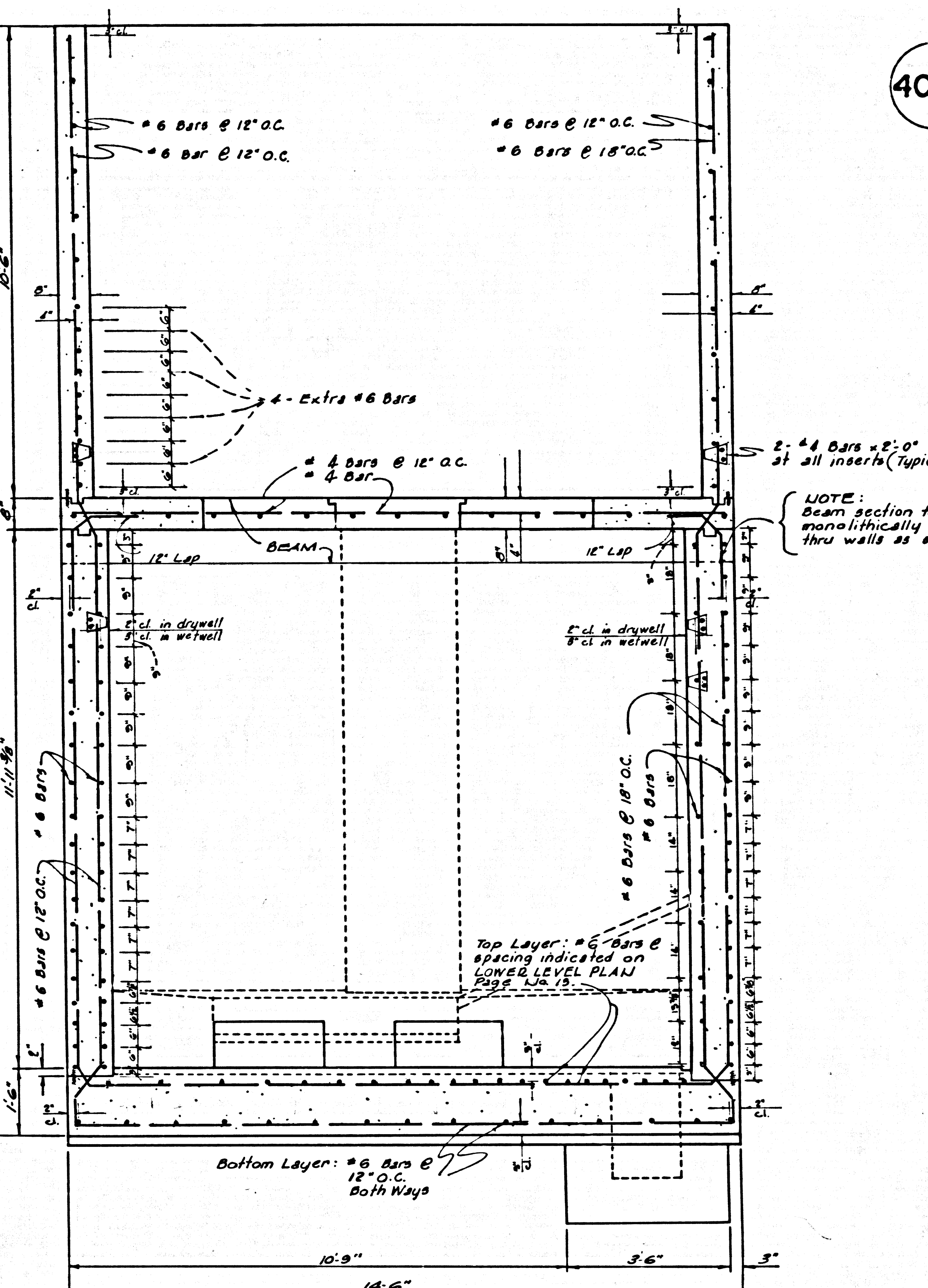
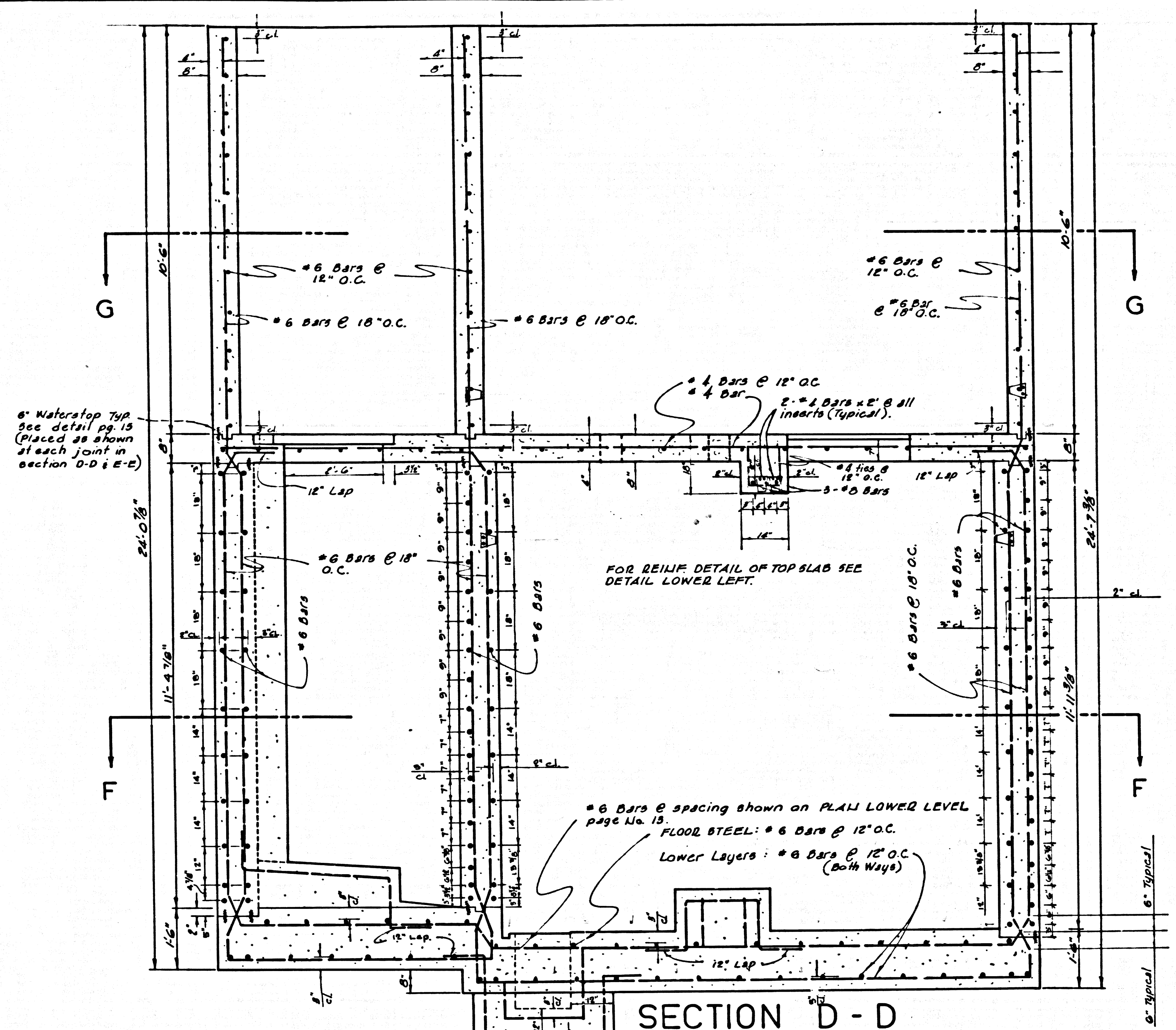


SECTION B-B
SCALE 1/2" = 1'-0"

TRACT N° 30362 SEWAGE PUMP STATION P.C. 7576 B			J.N. 036733		
SECTIONS					
COUNTY OF LOS ANGELES CALIFORNIA JOHN A. LAMBIE COUNTY ENGINEER					
DESIGNED: JGR	TRACED: JBC	CHECKED: JGR			
SCALE: AS SHOW	DATE: JULY 1966	PAGE 11 OF 18 PAGES			

REV. AIR INJECTOR SYSTEM

40159



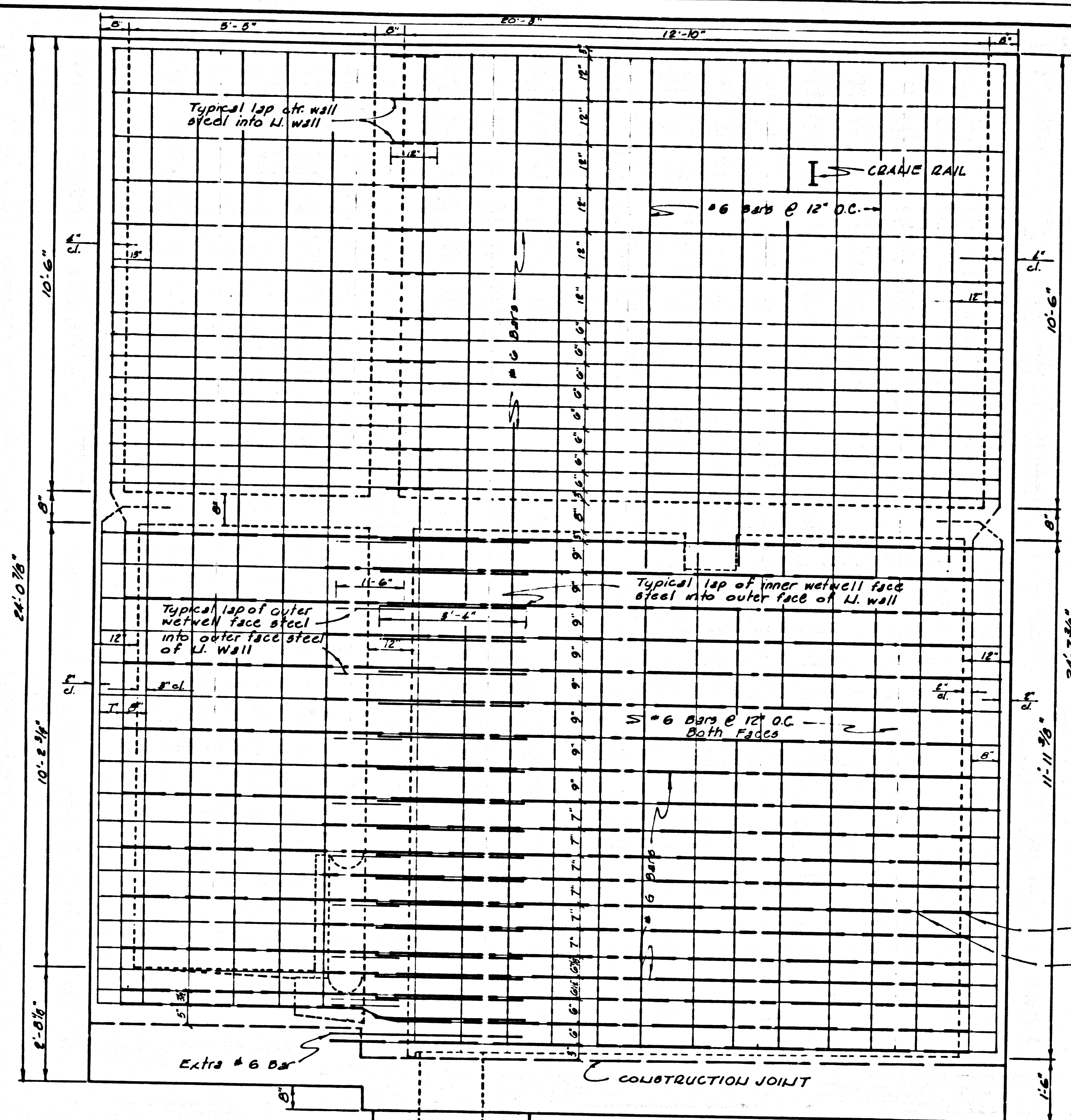
NOTE: Lap all bars from base 1'-6\"/>

NOTE: Beam section to be cast monolithically with floor thru walls as shown.

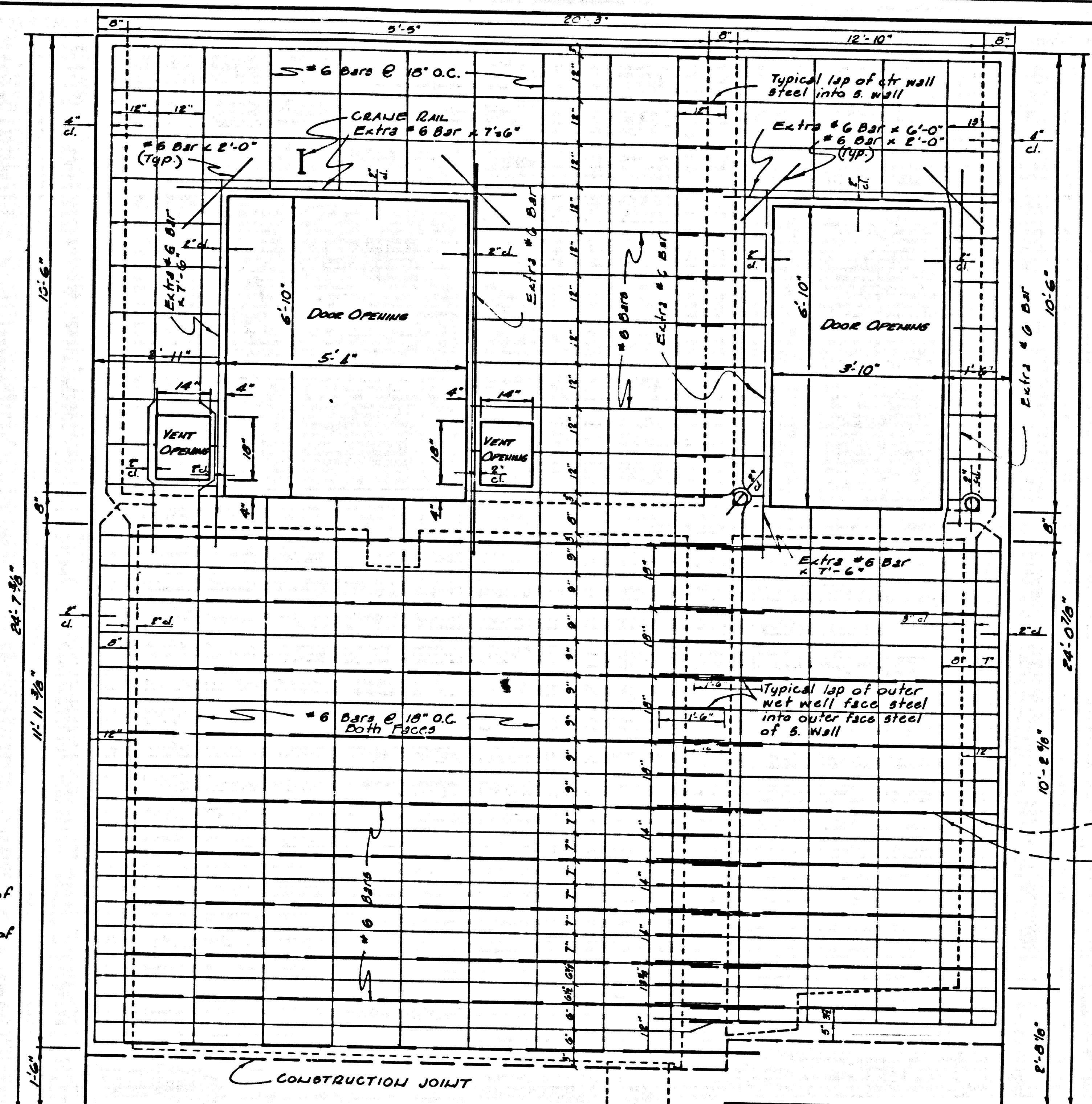
SECTION E-E
SCALE 1/2\"/>

PLAN UPPER LEVEL
SCALE 1/2\"/>

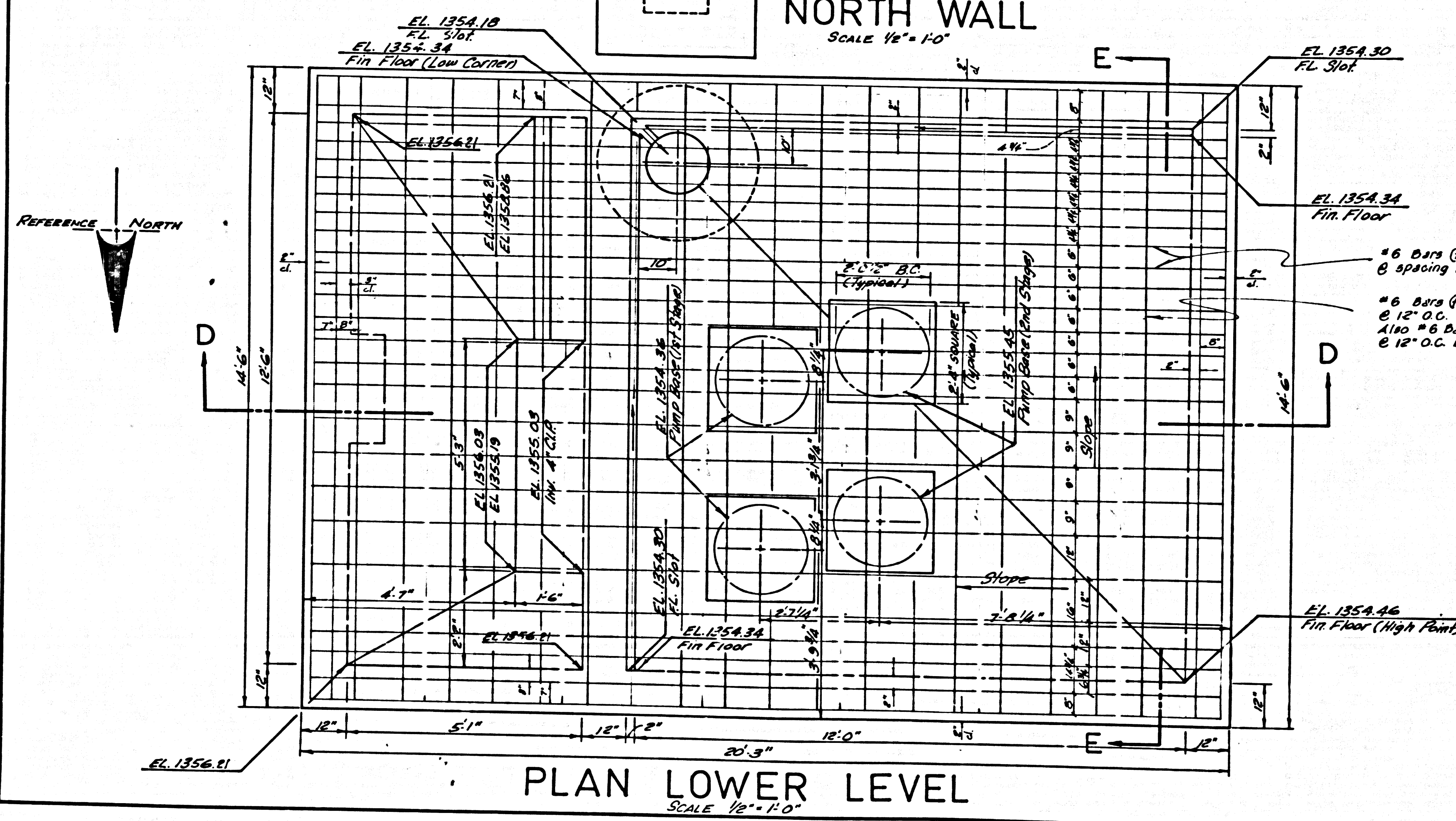
TRACT N° 30362		
SEWAGE PUMP STATION		
PC 7576 B	J.N.0367.33	
STRUCTURAL DETAILS		
COUNTY OF LOS ANGELES CALIFORNIA		
JOHN A LAMBIE		COUNTY ENGINEER
DESIGNED: J.G.G.	TRACED: J.B.C.	CHECKED: J.G.G.
SCALE: AS SHOWN	DATE: July, 1966	PAGE 12 OF 18 PAGES



NORTH WALL
SCALE 1/2" = 1'-0"



SOUTH WALL
SCALE 1/2" = 1'-0"

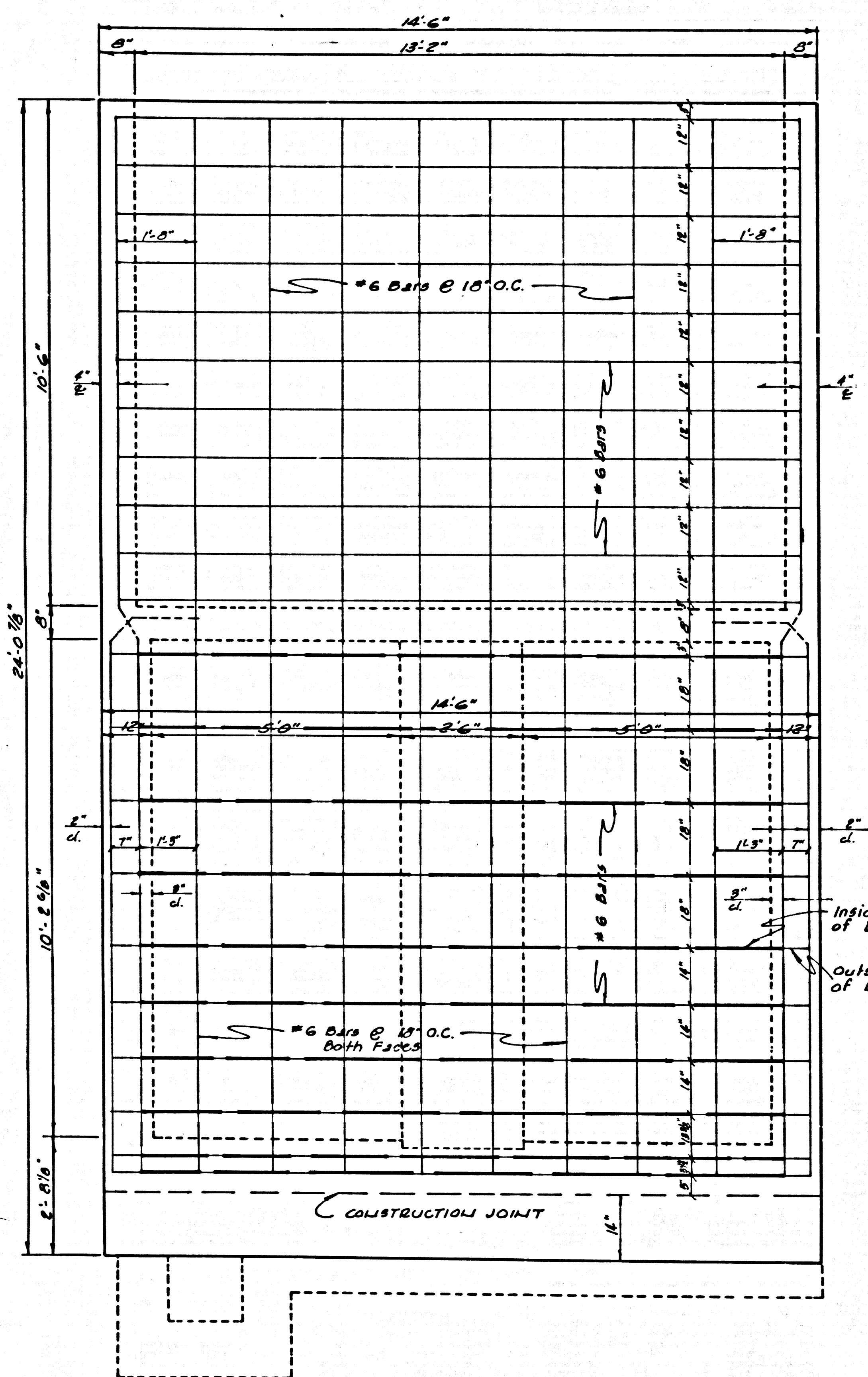


PLAN LOWER LEVEL
SCALE 1/2" = 1'-0"

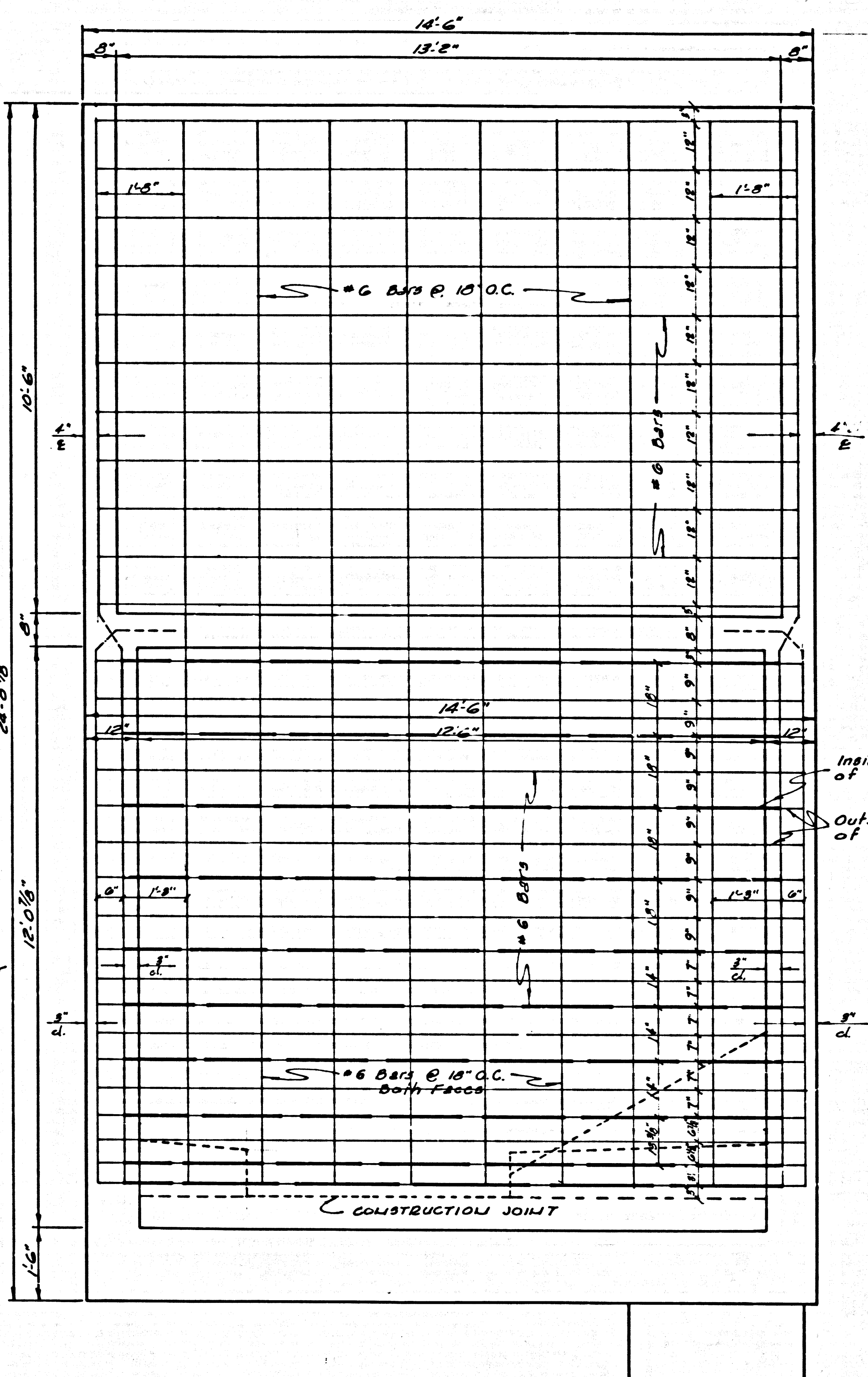
40160

Inside layer of steel
Outside layer of steel

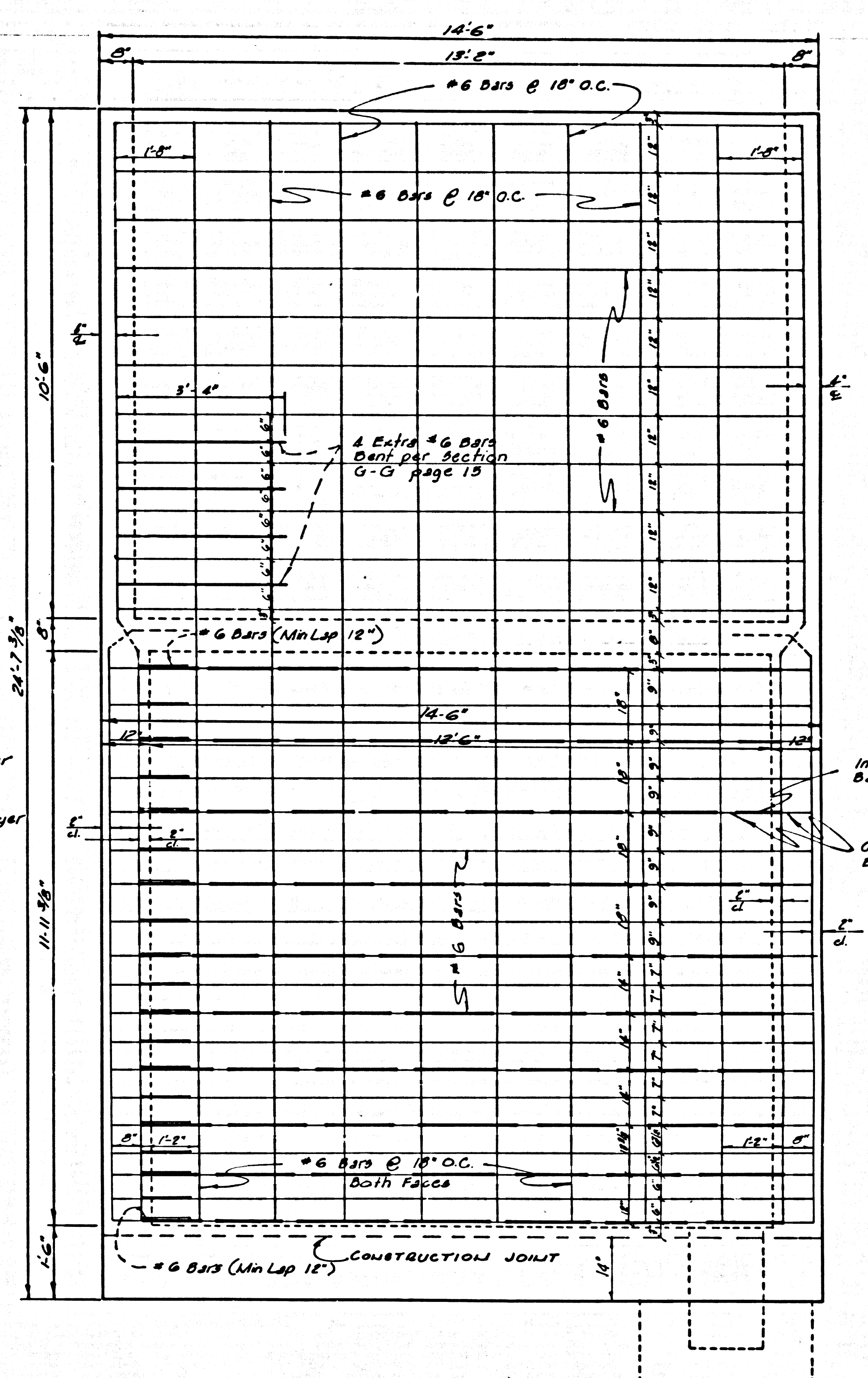
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SEWAGE PUMP STATION		
PC 7576 B	J.N. 036733	
STRUCTURAL DETAILS		
COUNTY OF LOS ANGELES CALIFORNIA		
JOHN A. LAMBIE COUNTY ENGINEER		
DESIGNED: J.G.R.	TRACED: J.G.R.	CHECKED: J.G.R.
SCALE: AS SHOWN	DATE: July, 1968	PAGE 15 of 18 PAGES



EAST WALL
SCALE: 1/8"=1'-0"

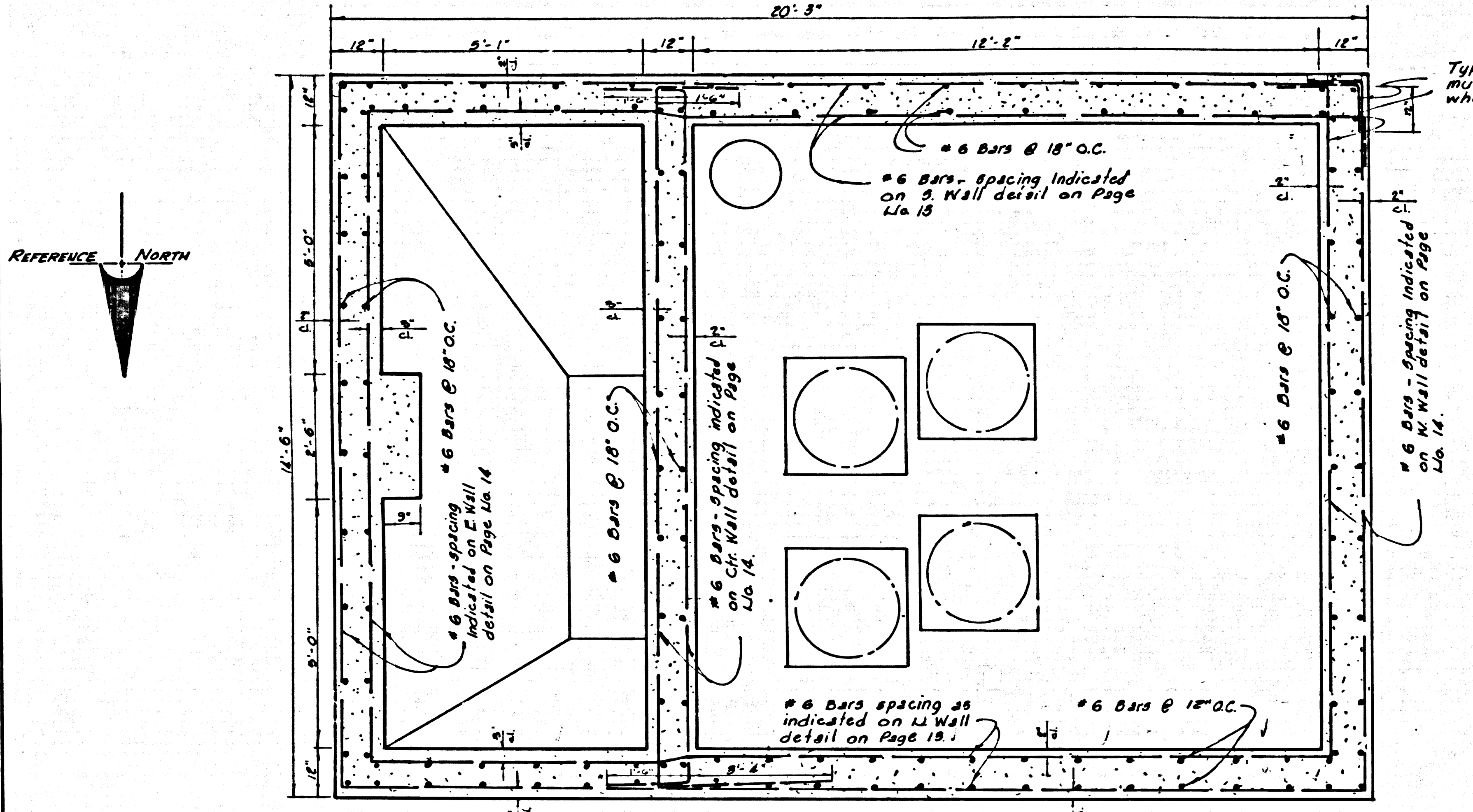


CENTER WALL
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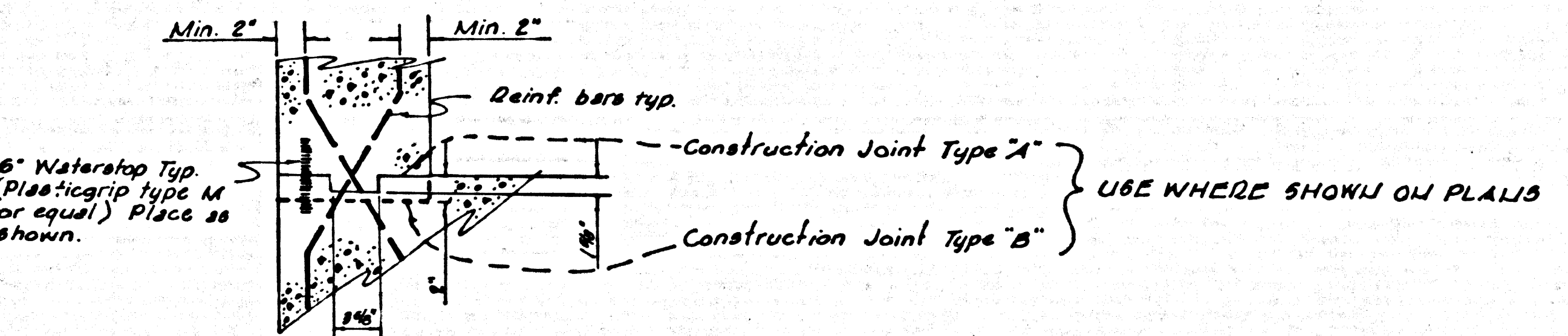


WEST WALL
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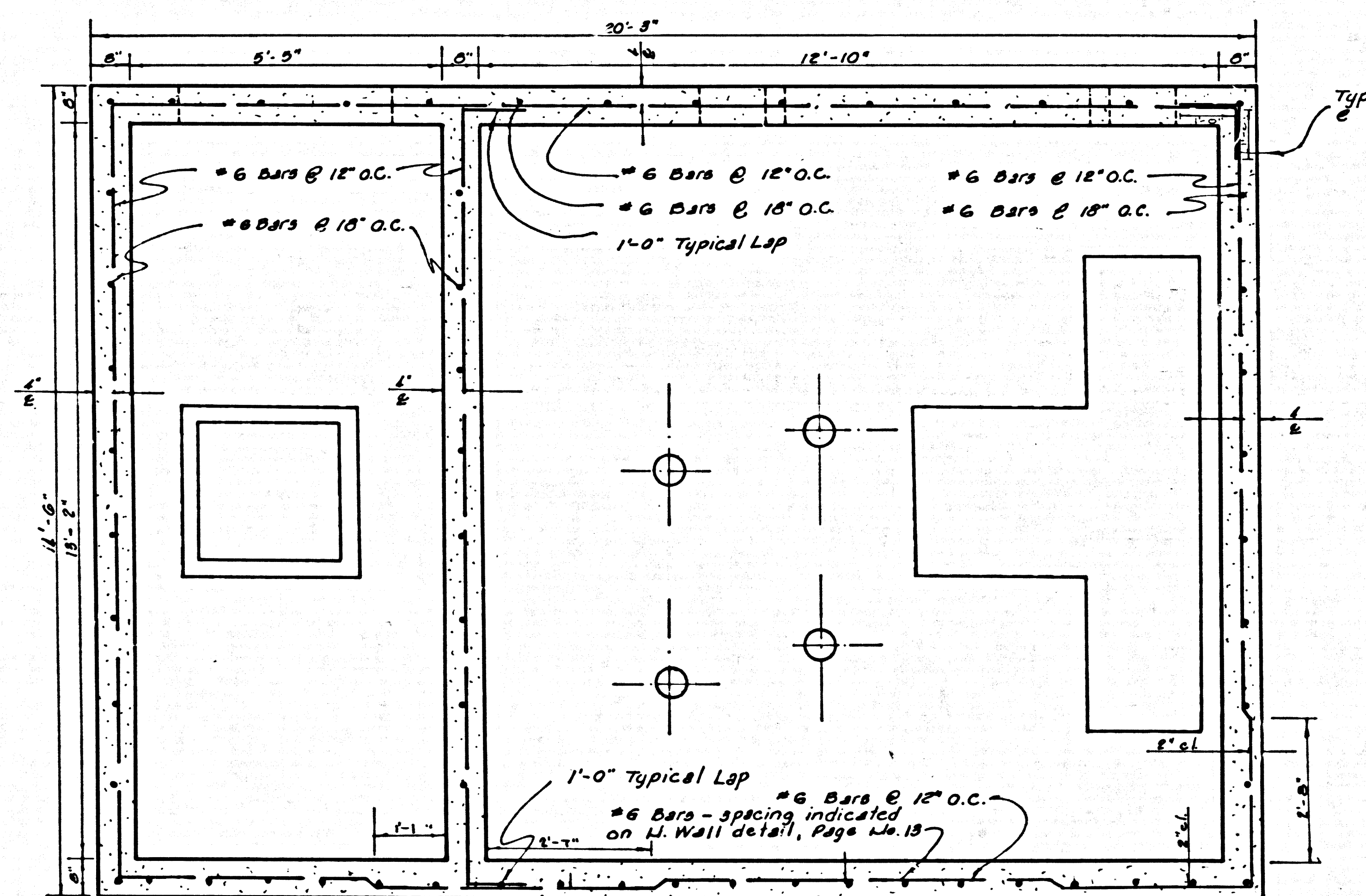
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SEWAGE PUMP STATION		
PC 7576 B	J.N.0367.33	
STRUCTURAL DETAILS		
COUNTY OF LOS ANGELES CALIFORNIA		
JOHN A. LAMBIE		COUNTY ENGINEER
DESIGNED: J.G.R.	TRACED: J.B.C.	CHECKED: J.G.R.
SCALE: AS SHOWN	DATE: July, 1966	PAGE 14 OF 15 PAGES



SECTION F-F
SCALE 1/4" = 1'-0"



TYPICAL CONSTRUCTION JOINT & WATERSTOP DETAIL
NO SCALE

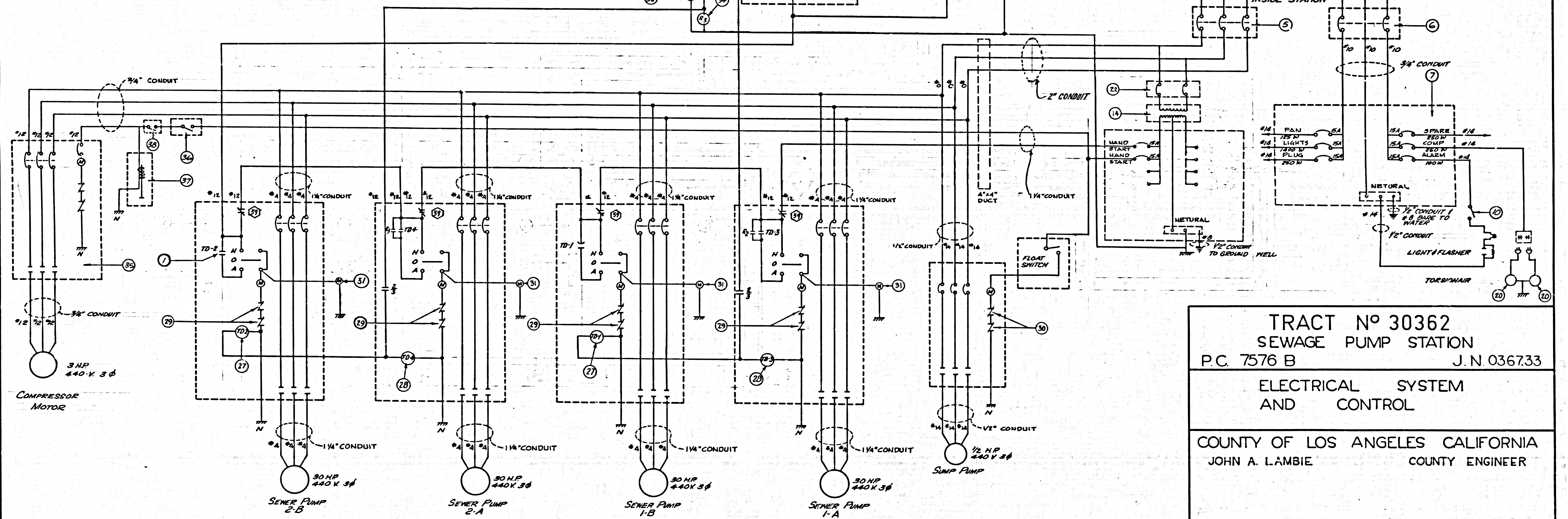
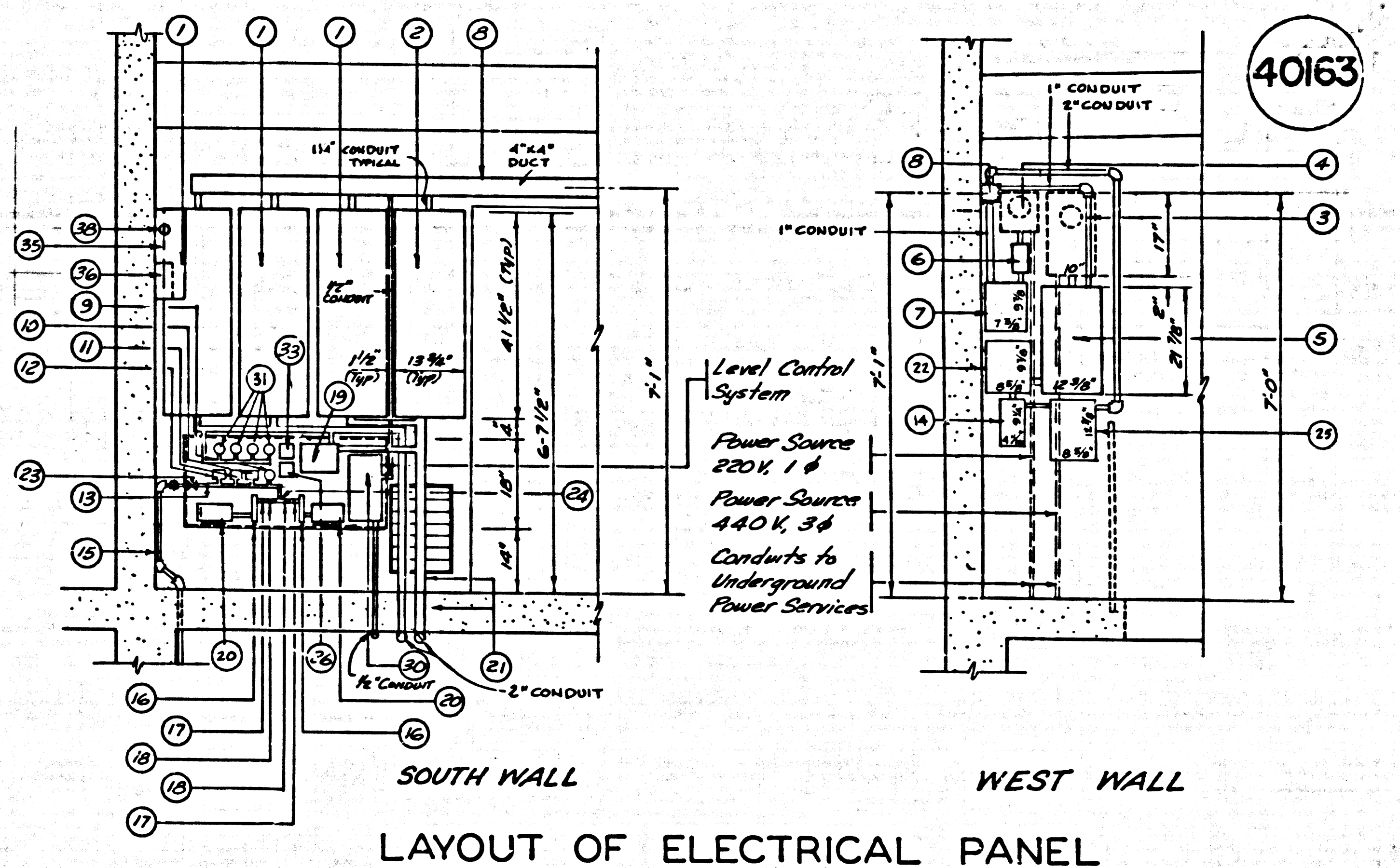
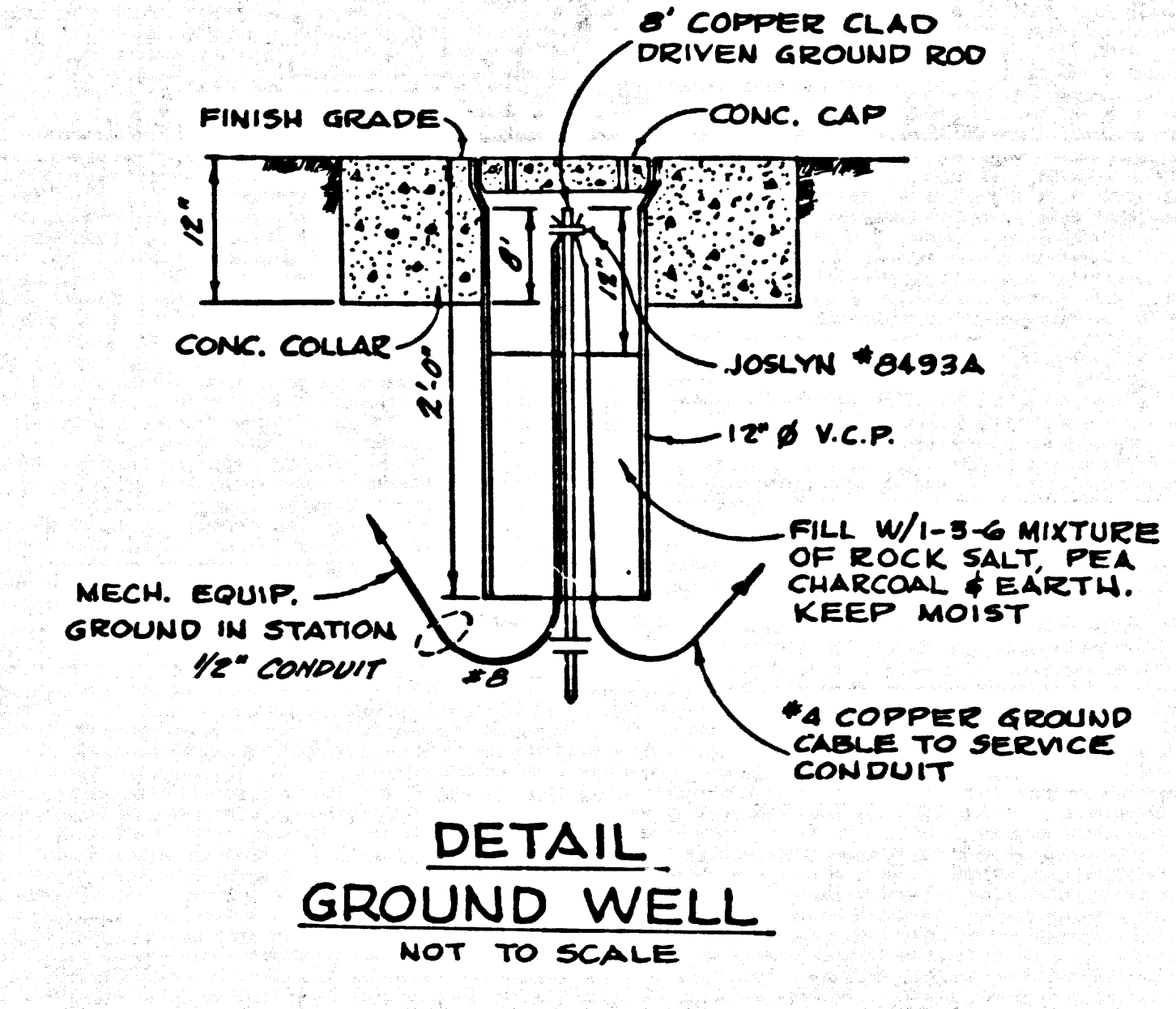


SECTION G-G
SCALE 1/4" = 1'-0"

TRACT N° 30362		
SEWAGE PUMP STATION		
PC 7576 B	J. N. 0367.33	
STRUCTURAL DETAILS		
COUNTY OF LOS ANGELES CALIFORNIA		
JOHN A. LAMBIE		COUNTY ENGINEER
DESIGNED: J.A.R.	TRACED: J.A.C.	CHECKED: J.A.R.
SCALE: AS SHOWN	DATE: July, 1966	PAGE 15 OF 18 PAGES

ELECTRICAL SYSTEM AND CONTROL SCHEDULE AND QUANTITIES		
N ^o	DESCRIPTION OF ITEM	AMOUNT UNIT
1	A.C. Pump Control Panel Class 8940-QEF-A JKX, NEMA 3, 440 V, 3 φ normally closed	3 Ea.
2	A.C. Pump Control Panel Class 8940-QEF-B JKX, NEMA 3, 440 V, 3 φ normally closed	1 Ea.
3	Mefer Socket Model M 27CRO, 7 Jaws	1 Ea.
4	Mefer Socket Model 504D, 4 Jaws	1 Ea.
5	Enclosed Circuit Breaker Model ML 3717 S, J-Frame NEMA 1, 440V 3 φ, 125 Amp	1 Ea.
6	Enclosed Circuit Breaker Model Q D2S, 50 Amp	1 Ea.
7	Enclosed Circuit Breaker and Load Center, QO6DS	1 Ea.
8	4" x 4" Galvanized Metal Gutter	1 L.F.
9	2 1/2" 0-100 MARSHALTON Pressure Gauge	1 Ea.
10	Pressure Alarm Switch BURESDALE Model DITA 3SS (High water in wet well)	1 Ea.
11	Pressure Switch for 100% Stand By BURESDALE Model DITA 3SS	1 Ea.
12	Pressure Switch for Operation of Alternator, BURESDALE Model DITA 3SS	1 Ea.
13	1/4" Dia. Brass Pipe Line	1 L.F.
14	EOL 60 cycle 440V-220V, 110V Control Circuit Transformer	1 Ea.
15	3/4" Dia. PVC to Wet Well	1 L.F.
16	Schwab-Koerting Co Purge Rotameter with Integral Throttle and Check Valve Size 2 - Fig # B.P.5, 0-10 CFM Scale	2 Ea.
17	1/2" Union for 1/2" Dia. Brass Line	2 Ea.
18	1/2" Brass Gate Valve for 1/2" Dia. Brass Line	2 Ea.
19	Alternator ALTOIROL Model N ^o 7	1 Ea.
20	Buckman Products Inc. Model H Torsionair 120 V, 6 R.R.G. Min-Max Compressor (No regulator required)	2 Ea.
21	Electrical Conduit Pipe, 2"	1 L.F.
22	AB1261 Heavy duty Safety Switch	1 Ea.
23	1/4" Brass Gate Valve for 1/4" Dia. Brass Line	1 Ea.
24	1/4" x 1/2" x 1/2" Brass Tee	1 Ea.
25	Enclosed Circuit Breakers and Load Center	1 Ea.
26	A.C. Magnetic Relay Class 8501-P93 110 V (2 Normally Open, 1 Normally Closed), 1/2" Press Holding Relay	1 Ea.
27	Pneumatic Timing Relay Class 9050-A0-1E (Time delay set to close 3 seconds after energization)	2 Ea.
28	Pneumatic Timing Relay Class 9050-A0-1D (Time delay set 3 seconds after de-energization)	1 Ea.
29	8539 B6 12.5 HP 440/3160 with AR12G 103 Amp Thermal Overload Relay Unit	2 Ea.
30	AR 60 43.1 Amp Thermal relay unit	8 Ea.
31	Veeder-root, Model T1205, G Didget Electric Magnetic Counters	4 Ea.
32	8501 C6 2 110V (NO-NO) Block Relay to Prevent Back Feed	1 Ea.
33	8501 C6 1 110V (NO-NO) Block Relay to Prevent Back Feed	1 Ea.
34	8501 PG 3 110V (2 NO - 1 NC) Block Relay to Prevent Back Feed	1 Ea.
35	Combination Magnetic Starter 8539 BAIG 12 Form K-E 3HP 440/3160 with AR-5 Thermal Overload Relay Unit	1 Ea.
36	INTERMATIC Time Switch Model T101	1 Ea.
37	Solenoid Valve 110 V Oper when energized	1 Ea.
38	9001 B.W.40 Control Station at Compressor	1 Ea.

38 MICRO-SWITCH DOOR-INTERLOCK



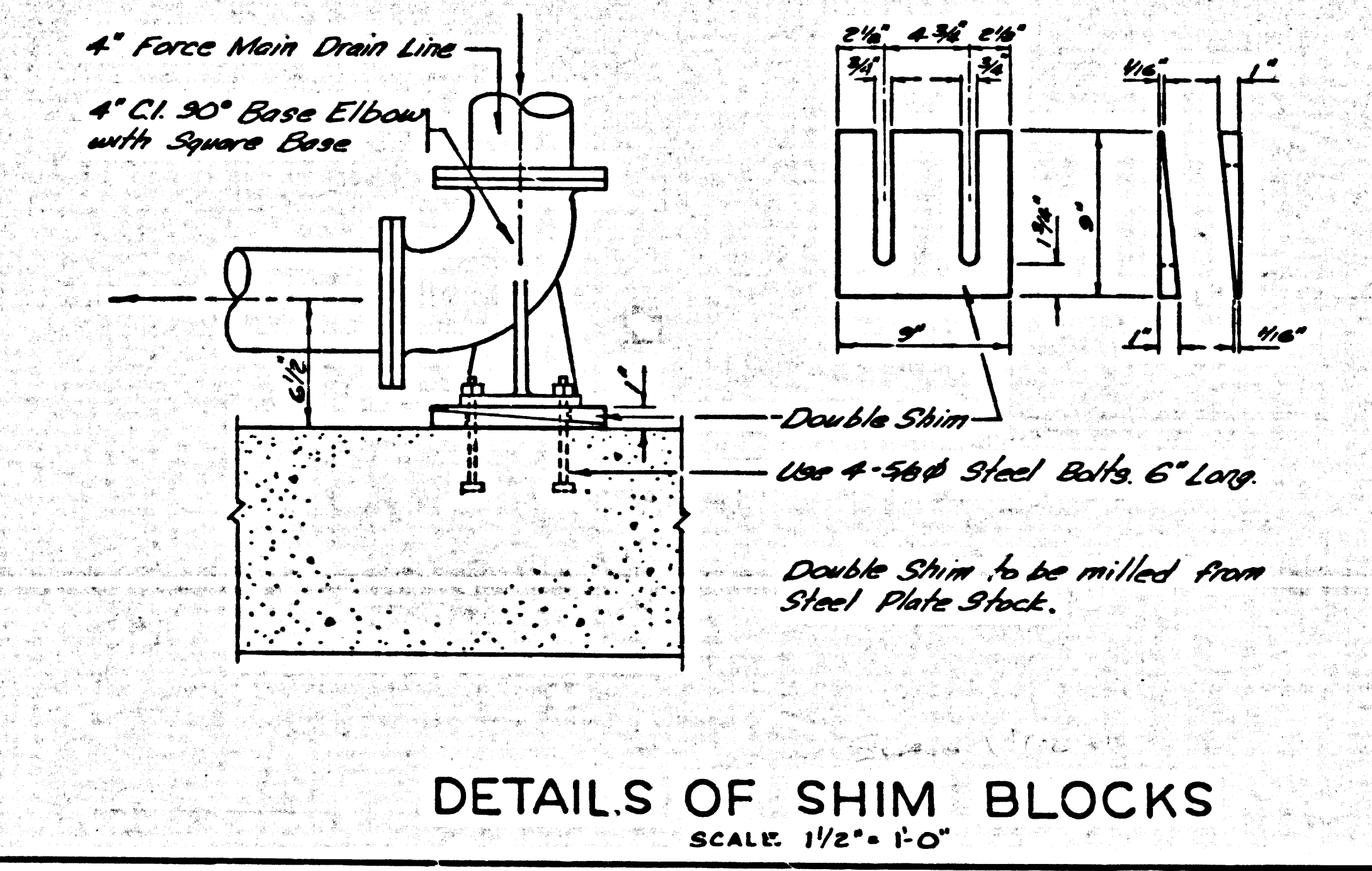
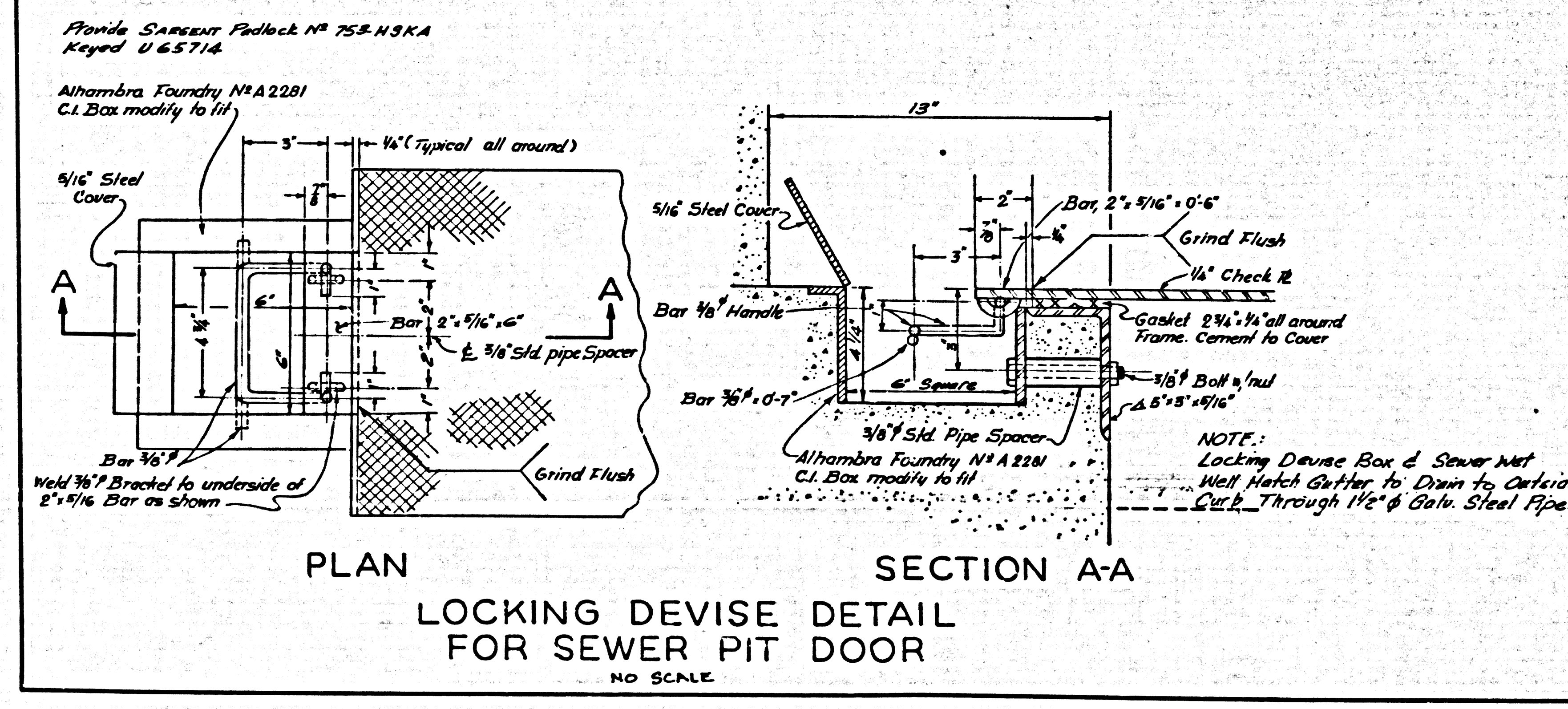
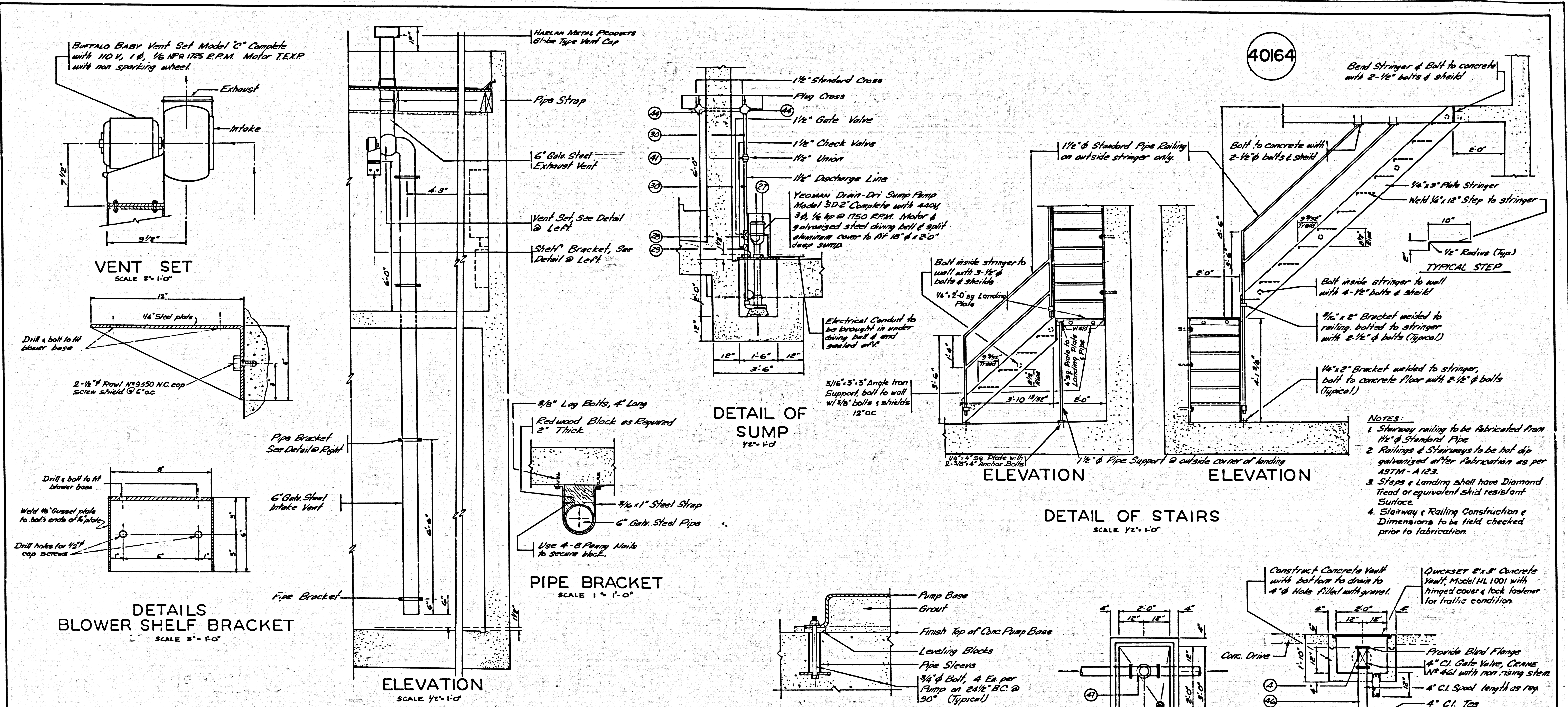
SCHEMATIC OF ELECTRICAL SYSTEM NOT TO SCALE

TRACT N^o 30362
 SEWAGE PUMP STATION
 P.C. 7576 B J.N. 036733

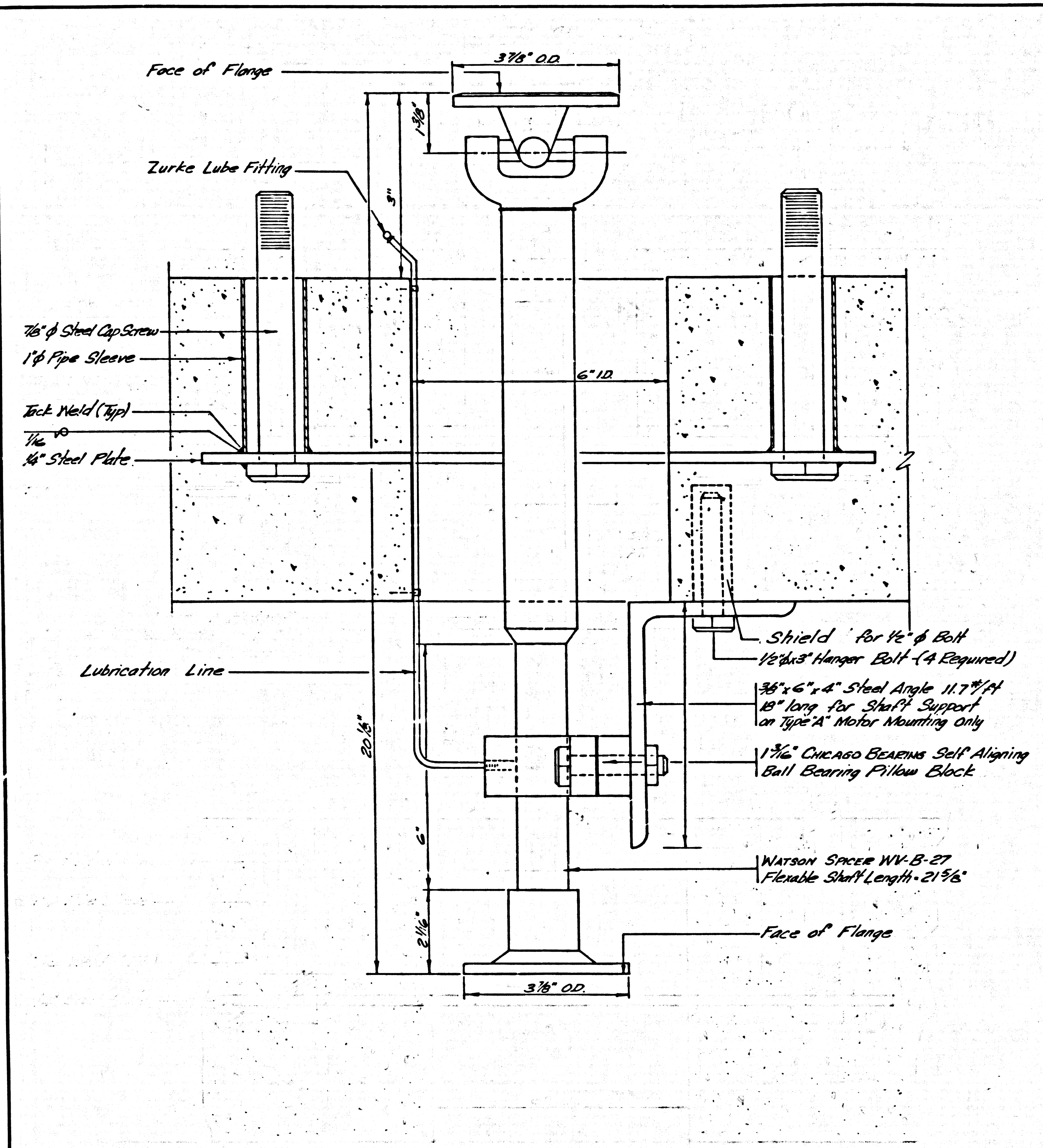
ELECTRICAL SYSTEM AND CONTROL

COUNTY OF LOS ANGELES CALIFORNIA
 JOHN A. LAMBIE COUNTY ENGINEER

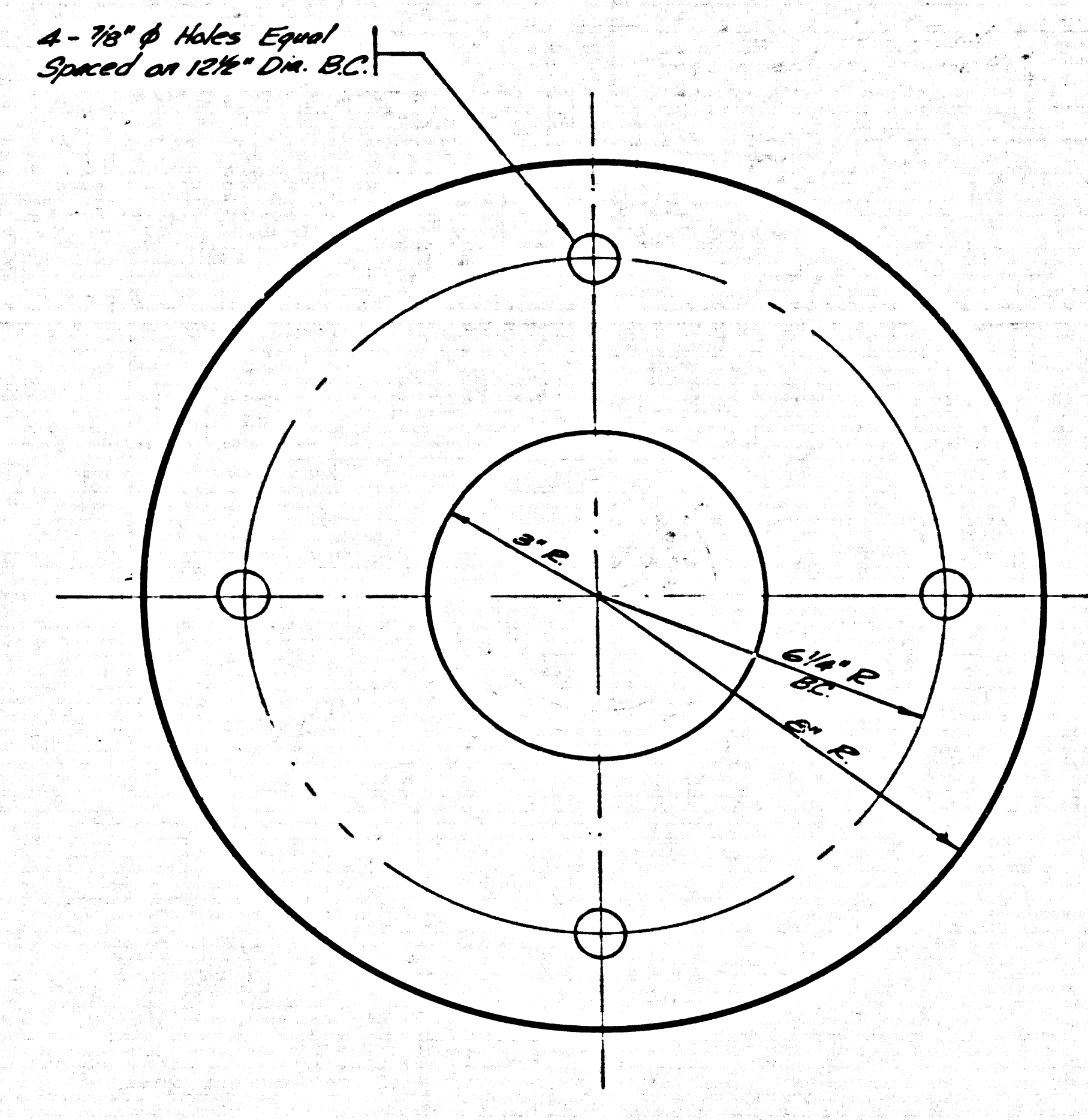
DESIGNED J.G.R. TRACED J.B.C. CHECKED J.G.R.
 SCALE AS SHOWN DATE JULY 1966 PAGE 16 OF 18 PAGES



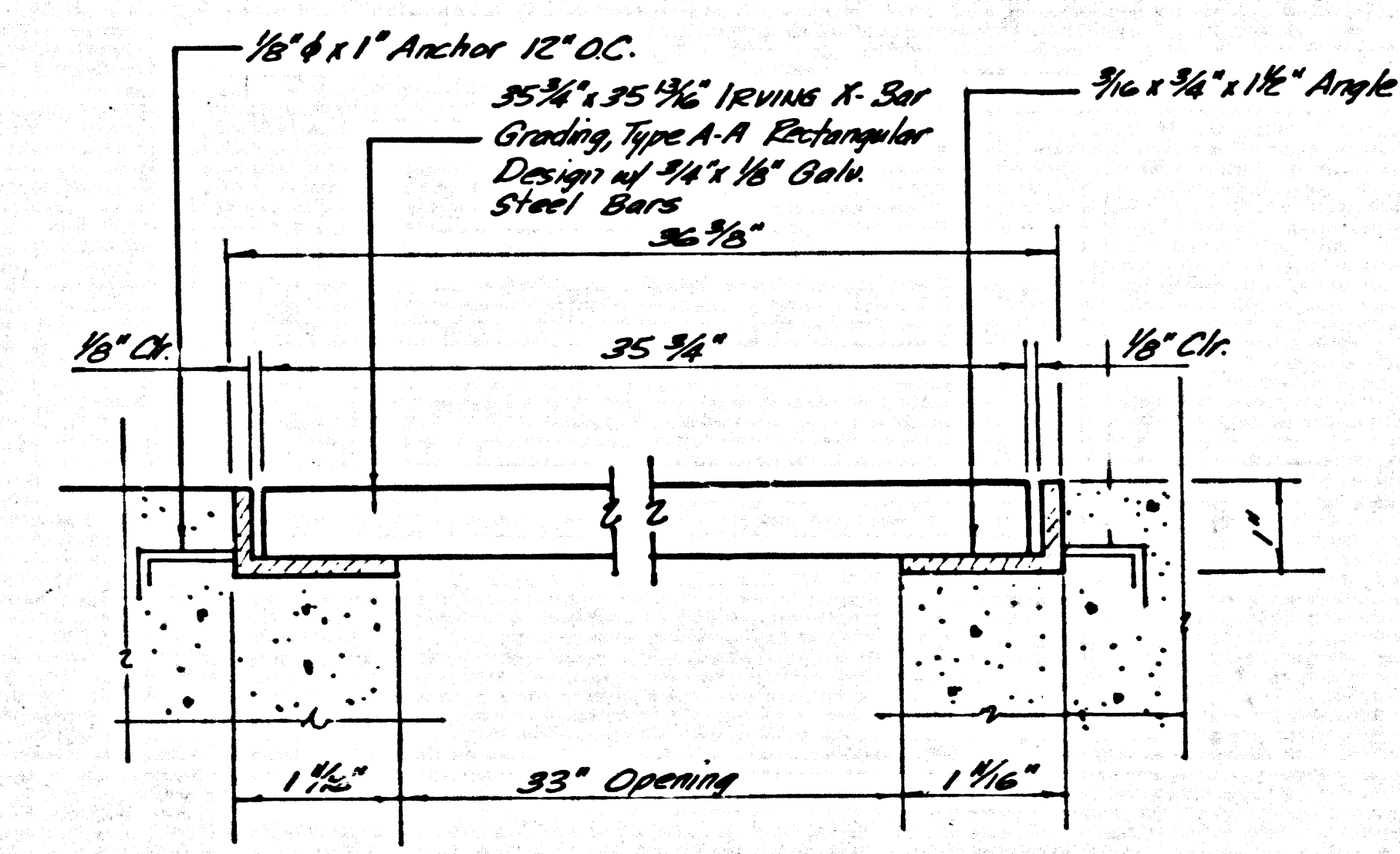
TRACT No 30362		
SEWAGE PUMP STATION		
P.C. 7576 B	J.N. 036733	
MISCELLANEOUS DETAILS		
COUNTY OF LOS ANGELES CALIFORNIA		
JOHN A. LAMBIE		COUNTY ENGINEER
DESIGNED: J.G.R.	TRACED: J.B.C.	CHECKED: J.G.R.
SCALE: AS SHOWN	DATE: JULY 1966	PAGE 17 OF 18 PAGES



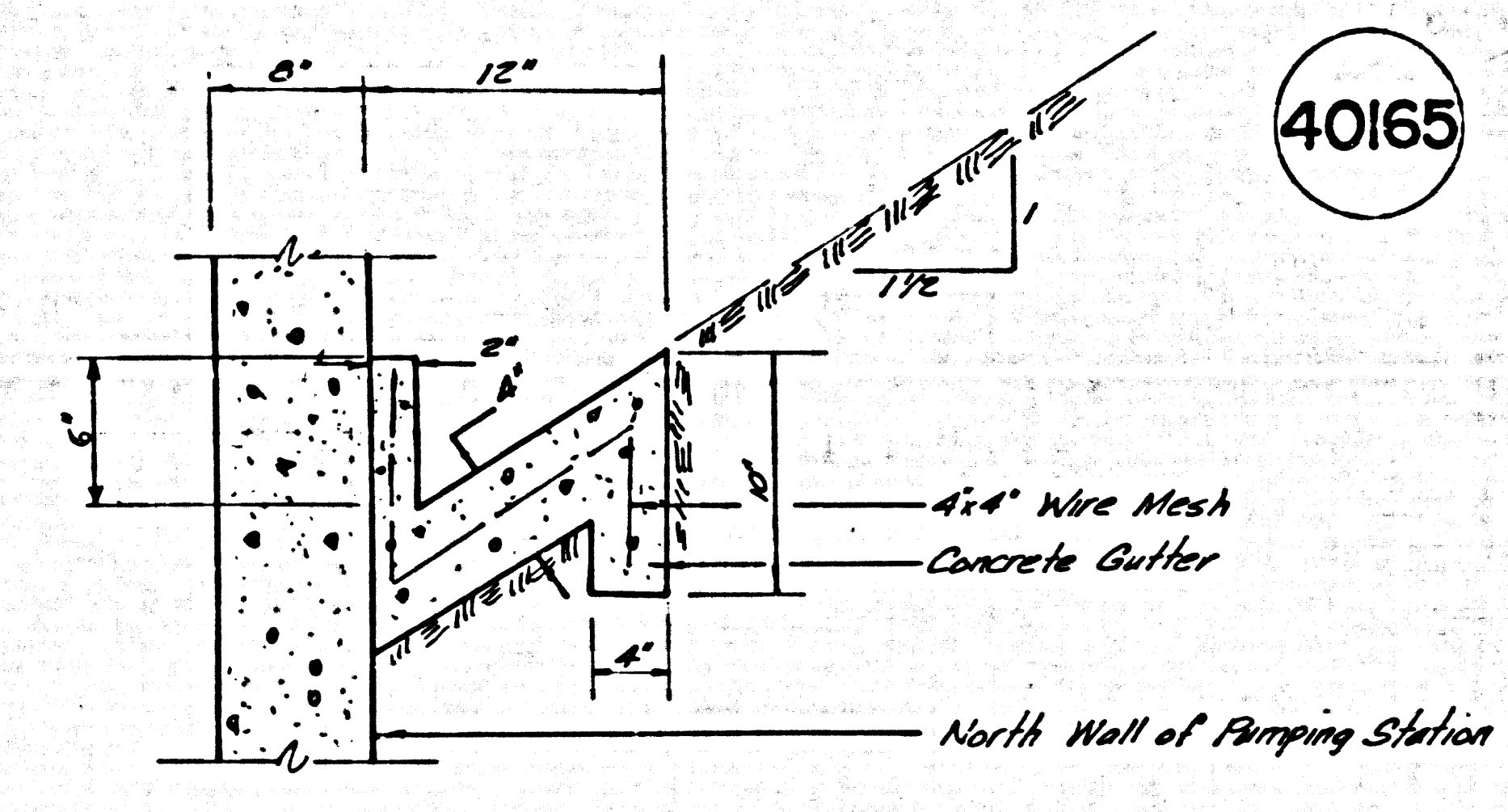
TYPICAL MOTOR MOUNTING PLATE
1/2" x 1'



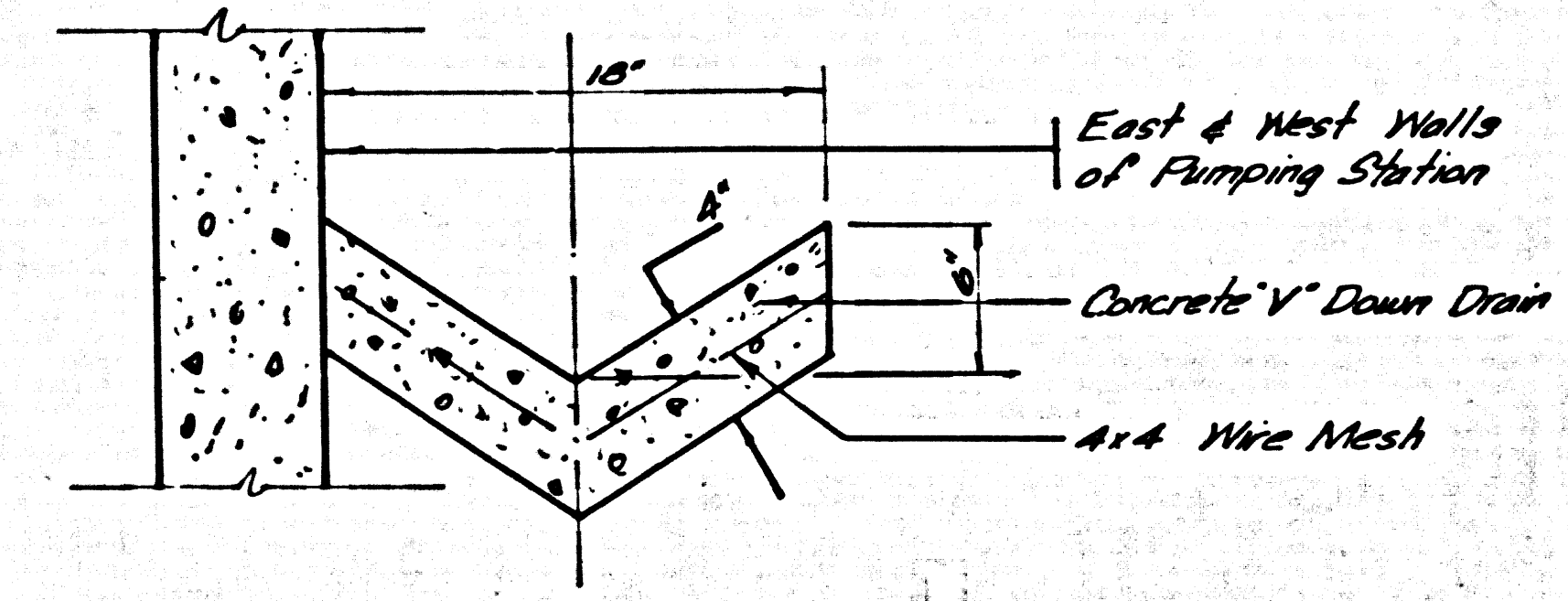
TYPICAL MOTOR MOUNTING PLATE
1/2" x 1'



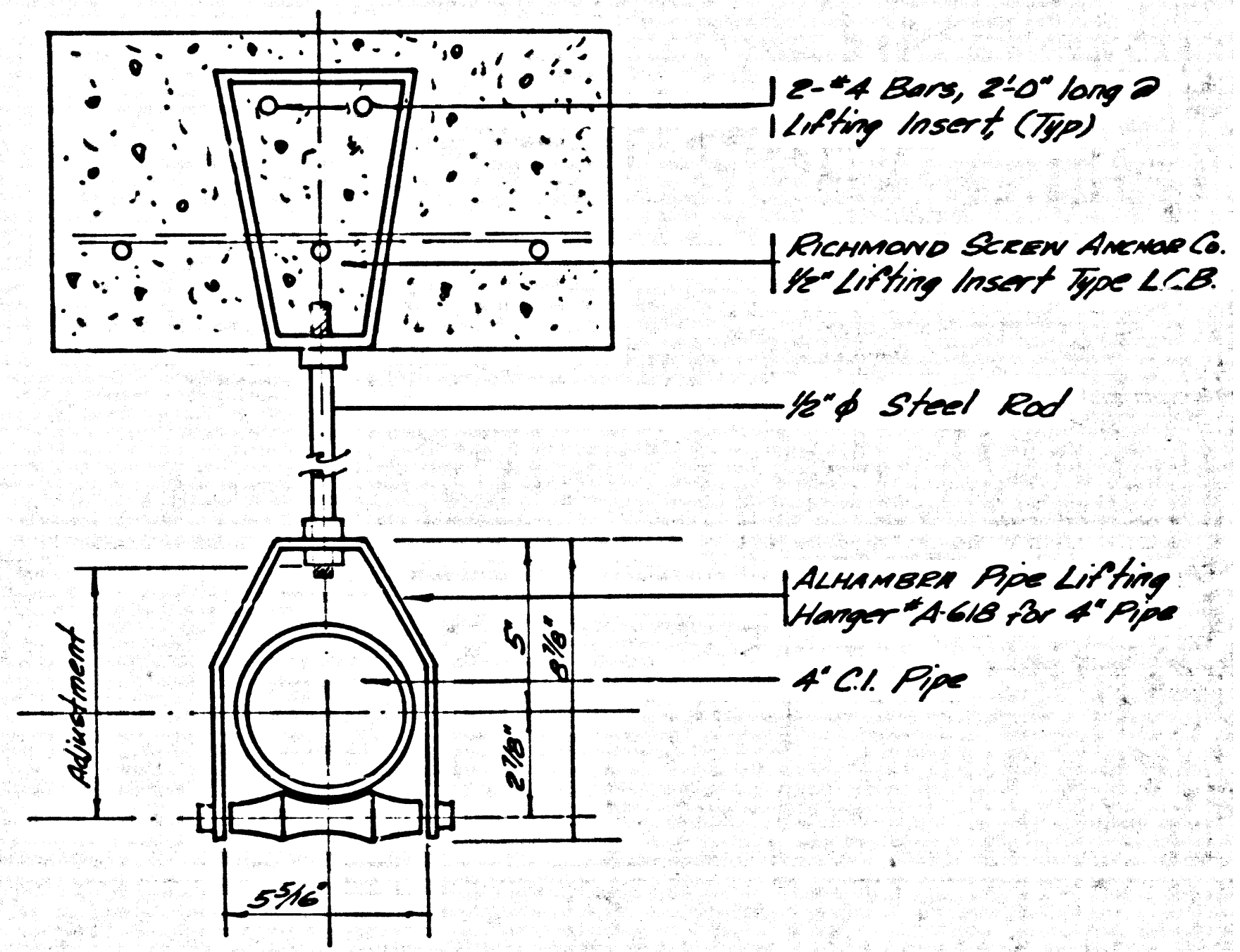
GRATING DETAIL
1/2" x 1'



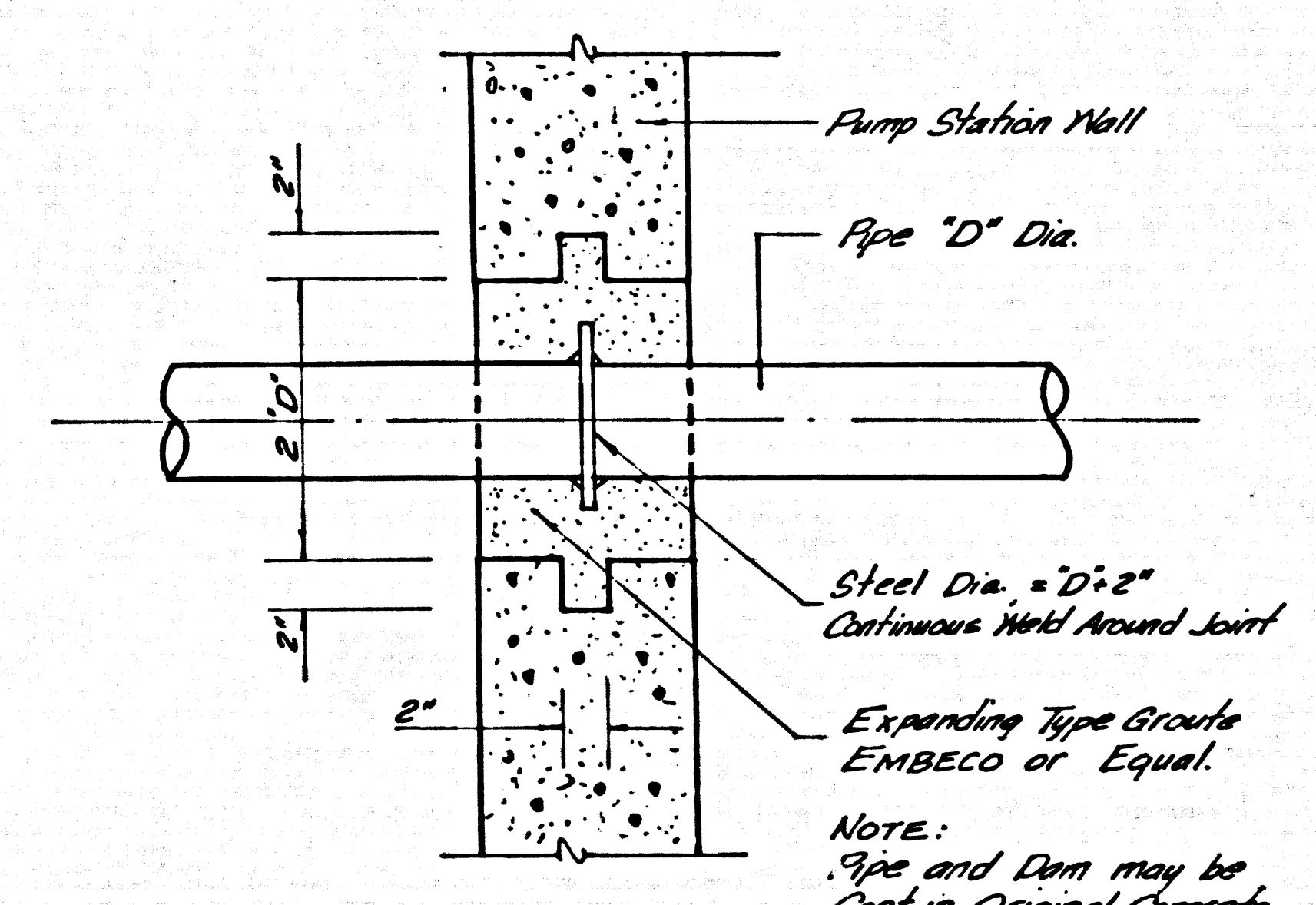
GUTTER NORTH OF BUILDING
1/2" x 1'-0"



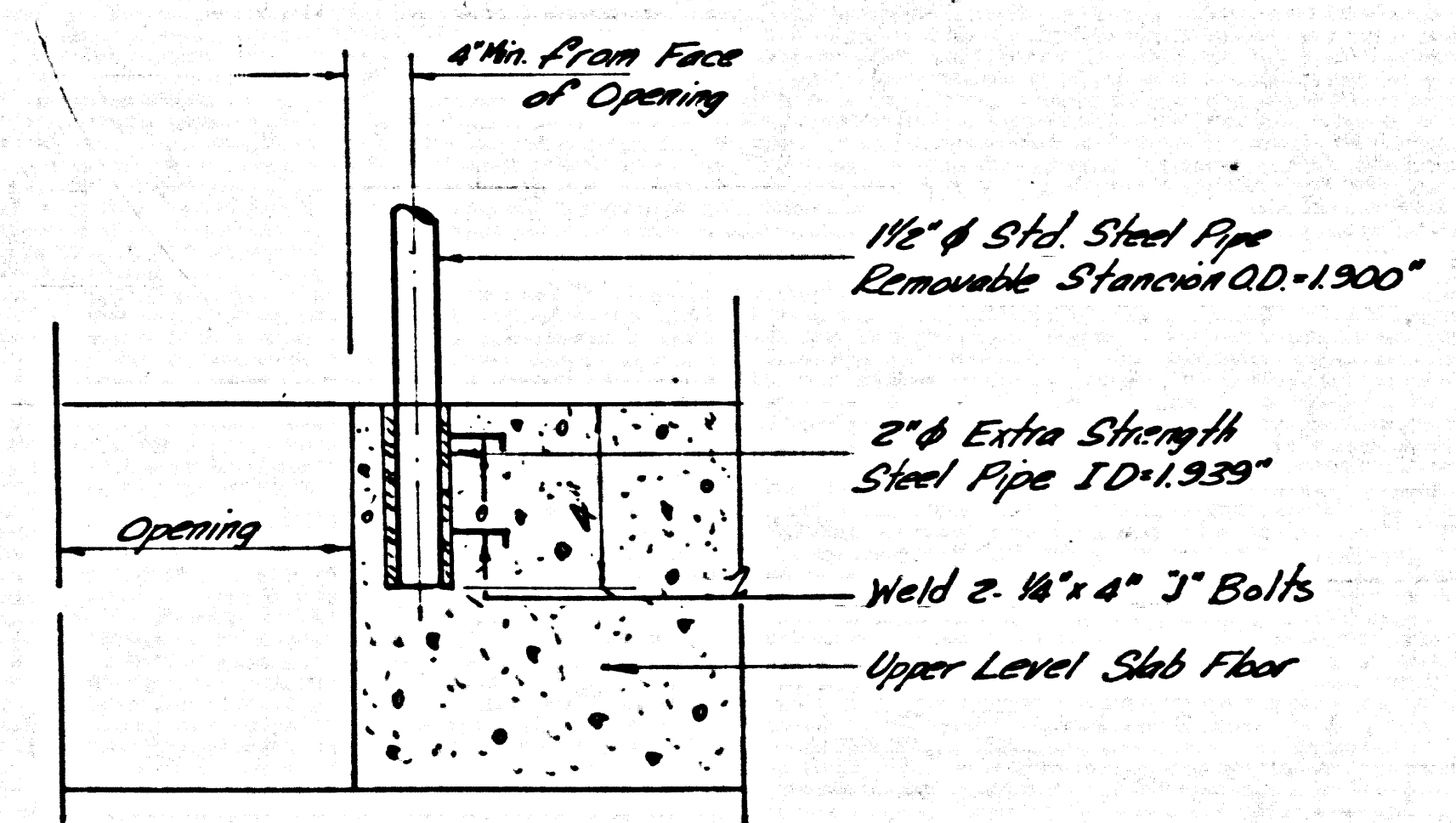
"V" DOWN DRAIN
1/2" x 1'-0"



PIPE HANGER DETAIL
NO SCALE



PIPE INSERT DETAIL
1/2" x 1'-0"



STACION SOCKET
3" x 1'-0"

TRACT N° 30362		
SEWER PUMP STATION		
P.C. 7576 B	J.N.036733	
MISCELLANEOUS DETAILS		
COUNTY OF LOS ANGELES CALIFORNIA		
JOHN A. LAMBIE COUNTY ENGINEER		
DESIGNED: J.C.R.	TRACED: J.R.C.	CHECKED: J.G.R.
SCALE: As Shown	DATE: July 1966	PAGE 18 OF 18 PAGES