

TRACT No 42557
 PRIVATE CONTRACT NO. 10002 & 10002A

W.S. 39-04
 17 SHEETS, 21 PAGES
 50810
 SCALE: VERT. 1" = 4'
 HORIZ. 1" = 40'
 JANUARY, 1982
 PREPARED IN THE OFFICES OF
 JOHN H. KOOCE, COUNTY ENGINEER
 208 N. WASHINGTON DRIVE
 SAN MARINO, CA 91088
 REG. C. E. No. 19233

PRIVATE ENGINEERS NOTICE TO CONTRACTORS

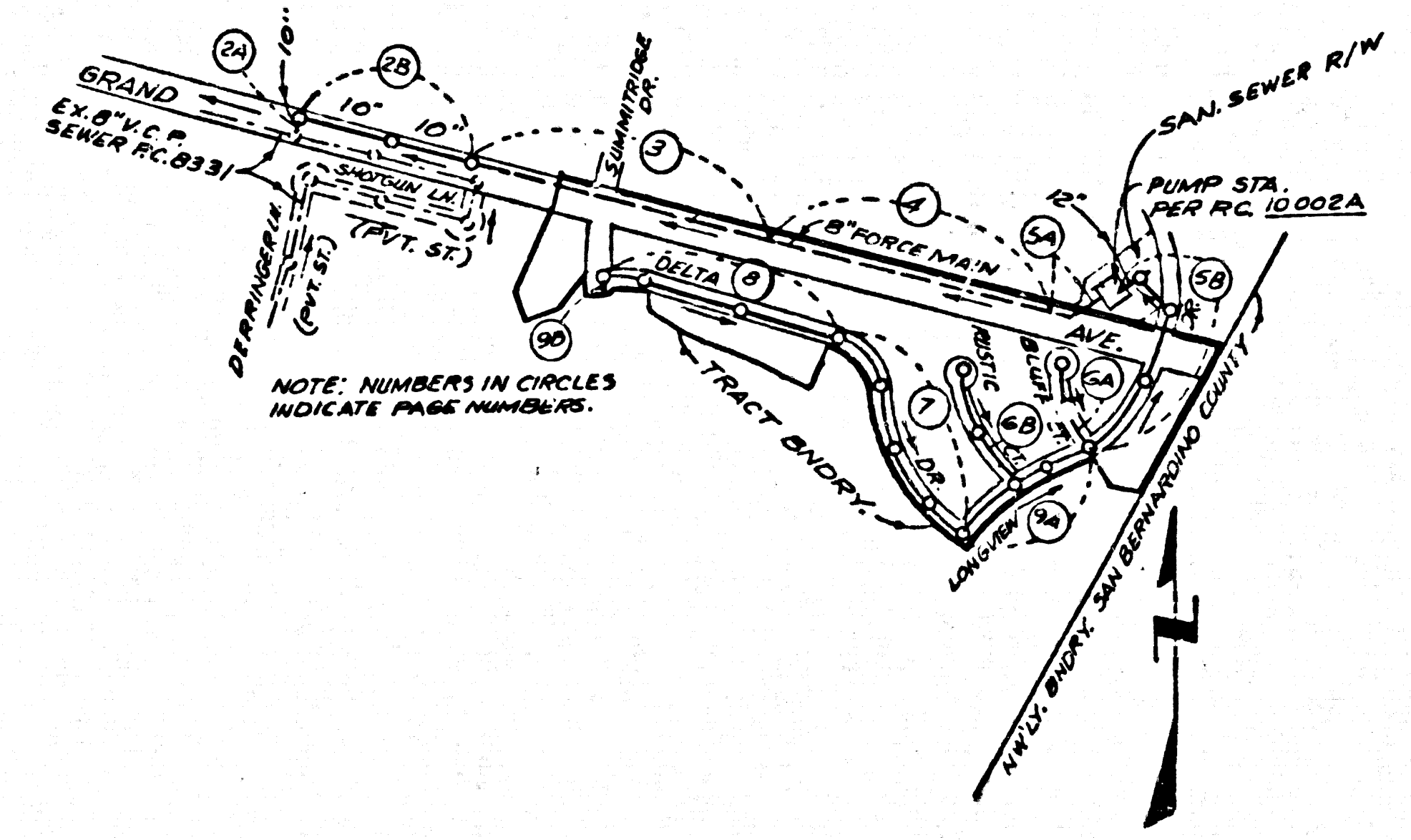
The existence and location of any underground utility pipes or structures shown on these plans are obtained by search of the available records. To the best of our knowledge there are no existing utilities except as shown on these plans. The contractor is required to take due precautionary measures to protect the utility lines shown and any other lines not of record or not shown on these plans.

J.H.K.
 Registered Engineer R.C.E. 19233

**LOS ANGELES COUNTY ENGINEER
 FACILITIES CONSOLIDATED SEWER
 MAINTENANCE DISTRICT**

REVIEWED BY: *M. M. Mohajir*
 DATE: 4/16/82

B.M. CG 3211 ELEV. 205.55
 L & T IN E END C B 44 FT 3 +
 56 FT W/CL INT GRAND AVE +
 DIAMOND BAR BLVD (MWD B1 C12)
 OTTERBEIN QUAD. 1915



INDEX MAP
 TRACT NO. 42557
 PC 10002 & 10002A
 SCALE: 1" = 400'

NO CONNECTION FOR THE DISPOSAL OF INDUSTRIAL WASTES SHALL BE MADE TO SEWERS SHOWN ON THESE DRAWINGS UNTIL A PERMIT FOR INDUSTRIAL WASTEWATER DISCHARGE HAS BEEN ISSUED BY THE SANITATION DISTRICTS FOR SAID CONNECTION.

BEFORE BREAKING INTO OR CONSTRUCTION ON A COUNTY SANITATION DISTRICT REMER ANY PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, SANITATION DISTRICT INSPECTOR SHALL BE NOTIFIED BY PHONE 818 - 962-8605 SO THAT REQUIRED INSPECTION CAN BE MADE.

CONSTRUCTION NOTES CONT'D.

16. FULL COMPLIANCE WITH PARTIES OF THE SPECIAL PROVISIONS IS REQUIRED FOR THE INSTALLATION OF A.B.S. COMPOSITE PIPE.
17. MANHOLE WATER STOP BASKETS & CLAMPS ARE REQUIRED FOR THE CONNECTION OF A.B.S. COMPOSITE PIPE TO MANHOLE STRUCTURES.
18. A.B.S. SOLID WALL PIPE MUST BE USED FOR 1/2" HOUSE LATERAL CONNECTIONS TO A.B.S. COMPOSITE MAINLINE SEWER PIPE.
19. A.B.S. COMPOSITE PIPE SHALL BE BEDDED IN CONFORMANCE WITH THE TABLE IN SECTION B-3.1 OF PART 3 OF THE SPECIAL PROVISIONS.
20. THREE DEGREE DEFLECTION COUPLERS ARE REQUIRED FOR RADIUS OF CURVATURES LESS THAN 200 FEET WHEN USING 6" A.B.S. COMPOSITE.
21. NO CONNECTIONS FOR DISPOSAL OF INDUSTRIAL WASTES IS ALLOWED TO A.B.S. COMPOSITE PIPE IS USED.
22. SEWER LINE CURVATURE SHALL NOT BE ACHIEVED BY PULLING OF JOINTS OR BENDING PIPE ENDS. MANUSCRIPT PLASTIC PIPE INCLUDING A.B.S. COMPOSITE PIPE.

GENERAL NOTES: DOUBLE SCALE

1. ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. SEA LEVEL DATUM OF 1985.
2. NO REVISIONS SHALL BE MADE IN THESE PLANS WITHOUT THE APPROVAL OF THE COUNTY ENGINEER.
3. NO REPRESENTATIVE OF THE COUNTY ENGINEER WILL SURVEY OR LAY OUT ANY PORTION OF THE WORK.
4. GRADES TO WHICH THIS IMPROVEMENT IS TO BE CONSTRUCTED ARE SHOWN ON PLANS AND PROFILES. GRADE POINTS FOR TOP OF CURBS, CENTER LINE OF STREETS AND ALLIES 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.
5. THE PRIVATE ENGINEER SHALL FURNISH THE COUNTY ENGINEER WITH GRADE SHEETS AND STATIONING FOR ALL HOUSE LATERALS AND "T" OR "Y" BRANCHES AND SHALL PROVIDE STAKES FOR THE SAME AT THEIR PROPER LOCATIONS WITH STATIONING CLEARLY 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.
6. 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.
7. 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 NO. 1, AND PAY A FEE TO THE COUNTY ENGINEER, 800 S. VERMONT AVENUE, LOS ANGELES, IN ORDER TO COVER THE COST OF CONSTRUCTION INSPECTION AND RECORD PLANS.
8. IF WORK IS TO BE DONE IN A STATE HIGHWAY, A PERMIT MUST BE OBTAINED FROM THE STATE OF CALIFORNIA, DIVISION OF HIGHWAYS, 130 SOUTH SPRING STREET, LOS ANGELES, CALIFORNIA.
9. 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 THIS PROJECT. THIS NOTE APPLIES TO ALL PAGES.
10. REFER TO SECTION 7.16.41 OF THE STANDARD SPECIFICATIONS, REGARDING SAFETY ORDERS.
11. PRIOR TO THE BEGAINING OF THE REQUIRED SEWER CONSTRUCTION PERMIT, THE CONTRACTOR SHALL OBTAIN AND FILE WITH THE COUNTY ENGINEER COPIES OF A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE LOS ANGELES COUNTY ROAD DEPARTMENT, A PERMIT FOR EXCAVATIONS AND TRENCHES FROM THE STATE OF CALIFORNIA, DIVISION OF INDUSTRIAL SAFETY AND A CERTIFICATE OF WORKERS COMPENSATION INSURANCE WITH THE DEPARTMENT OF COUNTY ENGINEER, 800 SOUTH VERMONT, RM. 408, LOS ANGELES, CALIFORNIA 90008, NAMED AS THE CERTIFICATE HOLDER TO BE NOTIFIED IN WRITING PRIOR TO CANCELLATION OF POLICY.

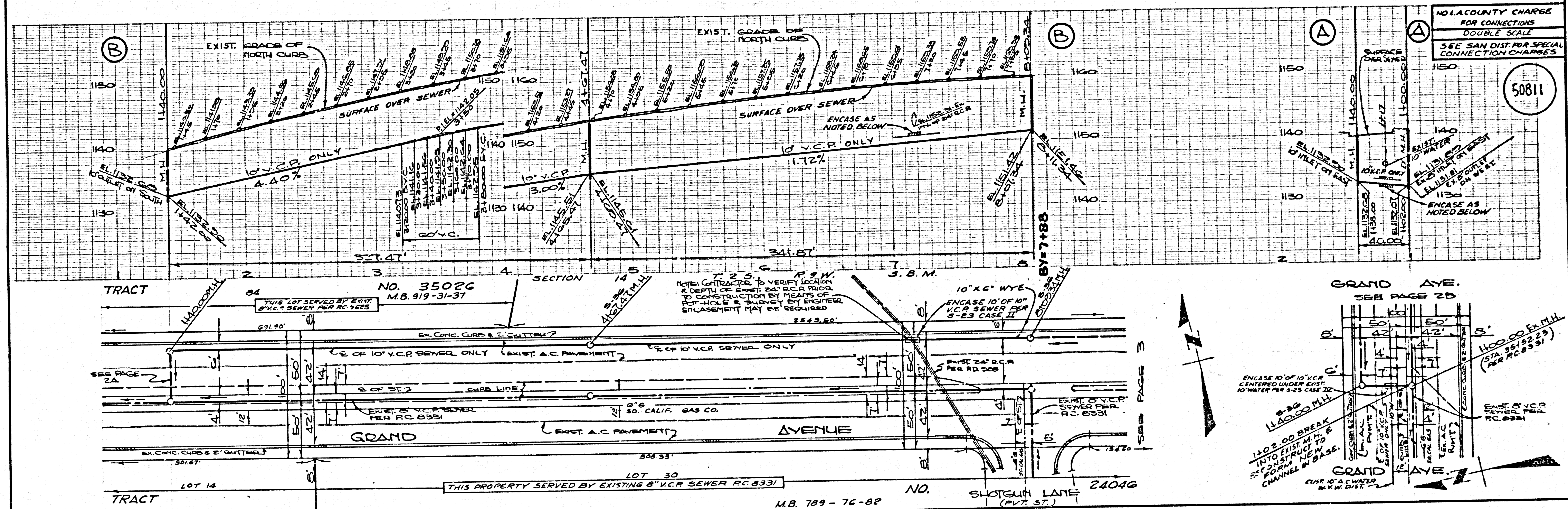
CONSTRUCTION NOTES:

1. WORK SHALL BE CONSTRUCTED ACCORDING TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (1982 EDITION WITH 1980 SUPPLEMENTS) AND COUNTY ENGINEER SPECIAL PROVISIONS FOR THE CONSTRUCTION OF SANITARY SEWERS DATED 3-27-78, 2-1-79.
2. THE CONTRACTOR SHALL NOTIFY THE ENVIRONMENTAL DEVELOPMENT DIVISION BY TELEPHONE, 728-5186, AT LEAST TWENTY-FOUR HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
3. HOUSE LATERALS TO BE CONSTRUCTED WITH INVERTS AT PROPERTY LINE 8 FEET BELOW CURB GRADE EXCEPT AS NOTED.
4. WYE OR TEE BRANCHES MAY BE USED FOR CONNECTIONS TO MAINLINE SEWERS EXCEPT AS NOTED.
5. ALL STRUCTURES SHALL BE EITHER BRICK MANHOLES PER B-3 OR PRECAST CONCRETE MANHOLES PER B-2B, EXCEPT AS NOTED.
6. PROVIDE STAKES ON THE PROPERTY LINE OR PROPERTY LINES PRODUCE AT RIGHT ANGLES TO THE SEWER LINE AT THE CENTER LINE OF EACH MANHOLE.
7. MANHOLE TOPS IN UNIMPROVED AREAS TO BE 22 INCHES ABOVE FINISHED GRADE.
8. WITNEDED CLAY PIPE JOINTS SHALL BE TYPE "D" OR "E" PER STANDARD SPECIFICATIONS SECTION 208-3.
9. IF A POWER POLE IS WITHIN THREE FEET OF THE SEWER, THE SEWER SHALL BE ENCASED PER B-2B, CASE A, TWO FEET ON EACH SIDE FROM THE POINT OF INTERFERENCE.
10. 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 OF HOUSE LATERAL SEWER WHICH IS NOT INDICATED ON THE PLANS, THE PIPE SHALL BE ENCASED PER B-2B, CASE B UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER.
11. ALL JOINTS BETWEEN CAST IRON PIPE AND WITNEDED CLAY PIPE SHALL BE MADE WITH A RUBBER SLEEVE JOINT, TYPE "C" OR "D", WITH BURRING IF NECESSARY, PER STANDARD SPECIFICATIONS SECTION 208-3.
12. ALL TRENCHES SHALL BE PROTECTED BY A 6" X 6" S.F. GULLY GRATE MADE WITH APPROVED MATERIALS PER STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
13. SEWERS TO BE TESTED FOR LEAKAGE PER PART 3 OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
14. RESURFACE ALL TRENCHES WITHIN PAVED AREAS TO MEET L.A. COUNTY ROAD DEPT. OR CALIFORNIA STATE HIGHWAY REQUIREMENTS IN ACCORDANCE WITH PERMITS.
15. FULL COMPLIANCE WITH SECTION 208-1.3 OF THE SPECIAL PROVISIONS WILL BE REQUIRED FOR BACKFILL IN STREET'S CERTIFICATION OF BACKFILL CONNECTION AND SAND EQUIVALENTS BY A QUALIFIED, REGISTERED TESTING LABORATORY SHALL BE PROVIDED BY THE PERMITTEE PRIOR TO THE ISSUANCE OF A CERTIFICATE OF PARTIAL ACCEPTANCE.
16. SPECIAL BACKFILL IN BASEMENT CONSTRUCTION: (A) BACKFILL TRENCH AND REPLACE OTHER EARTH SO AS TO ACHIEVE THE NATURAL OR FINISHED GRADES AND SLOPES SHOWN ON THE GRADING PLAN AS APPROVED FOR THE DEVELOPMENT BY THE BUILDING AND SAFETY DIVISION; (B) BACKFILL AND EARTH REPLACED SHALL BE COMPACTED TO A MINIMUM OF 80% OF MAXIMUM DENSITY PER A.S.T.M. 37D METHOD OF TEST OR BETTER AS INDICATED. ACCEPTABLE CERTIFICATION OF SUCH COMPACTION SHALL BE SUBMITTED TO THE ENVIRONMENTAL DEVELOPMENT DIVISION.

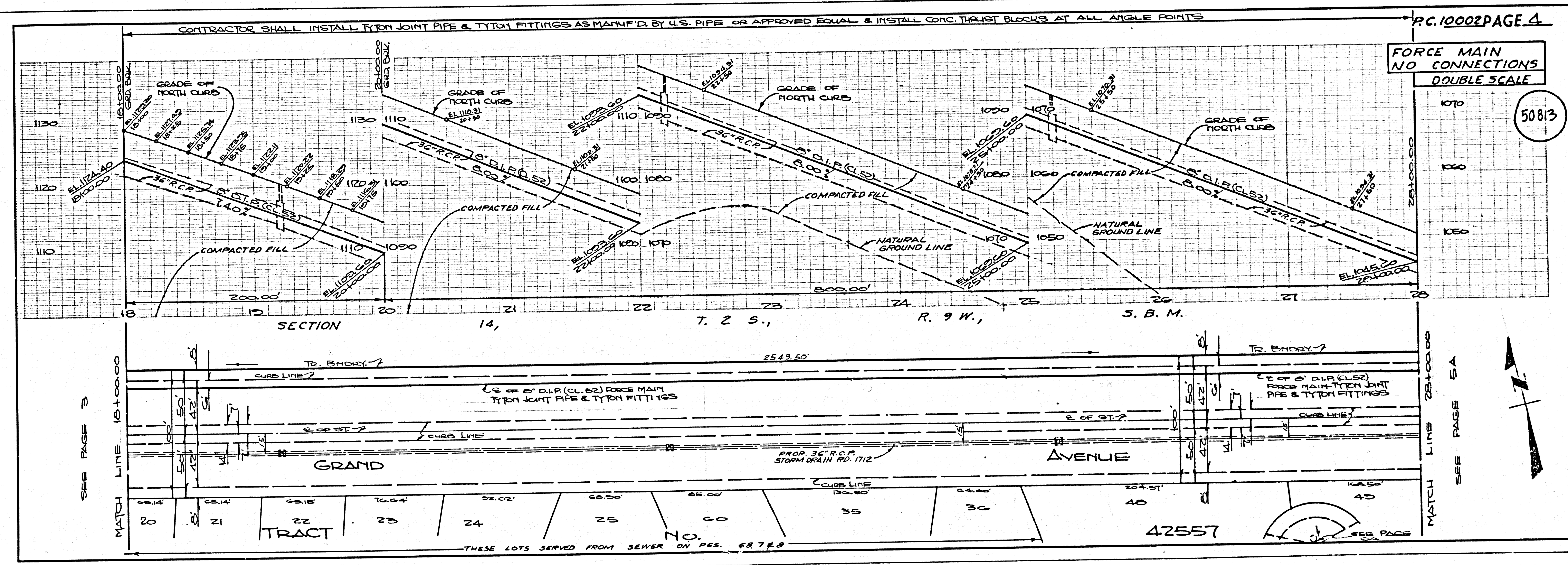
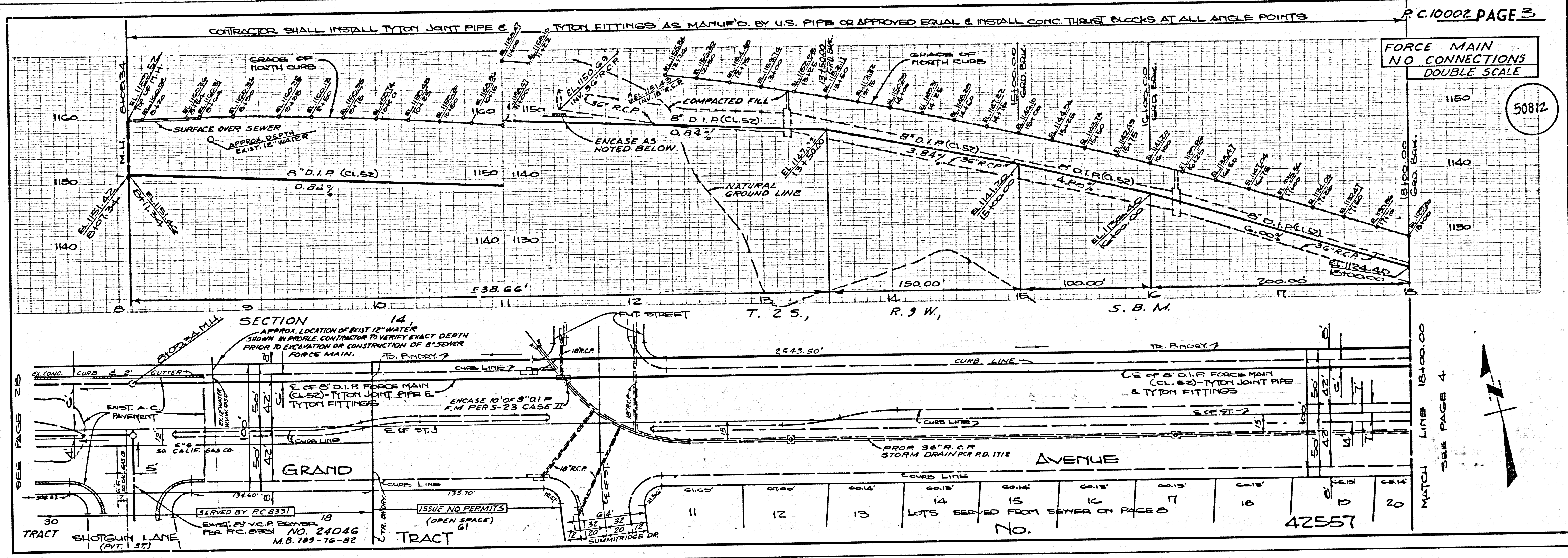
THE FOLLOWING LATEST REVISED STANDARD PLANS ON FILE IN THE OFFICE OF THE COUNTY ENGINEER SHALL APPLY IN THE CONSTRUCTION OF THIS PROJECT:

SEWER	5-1
MANHOLE PUBLIC SAFETY ENCLOSURES	5-2
BRICK MANHOLES	5-3
STANDARD MANHOLE BOX	5-4
BRICKS FOR SEWER PIPE	5-5
CASTING AND ENCASING	5-6
WYE OR TEE SUPPORT	5-7
AUTOMATIC TRENCH DRAIN	5-8
WOODEN MANHOLE PLANS AND COVERS	5-9
NON-REINFORCED PRECAST CONCRETE MANHOLES	5-10
RECORD REQUIREMENTS FOR PLASTIC PIPE	5-11A
SPECIAL SUPPORT AND PROTECTION	5-11B
SPECIAL HOUSE LATERALS	5-12

COUNTY OF LOS ANGELES, CALIFORNIA
 STEPHEN J. KOONCE, COUNTY ENGINEER
 APPROVED: *M. M. Mohajir* 4/16/82
 SAN DIMAS REGIONAL ENGINEER (DATE)
 CHECKED: *John Paul Smith* 4/16/82
 REG. C.E. NO. 16783
 SAN DIMAS RDG. DIST. 10.00



NO L.A. COUNTY CHARGE FOR CONNECTIONS DOUBLE SCALE
 SEE SAN DIST. FOR SPECIAL CONNECTION CHARGES
 50811

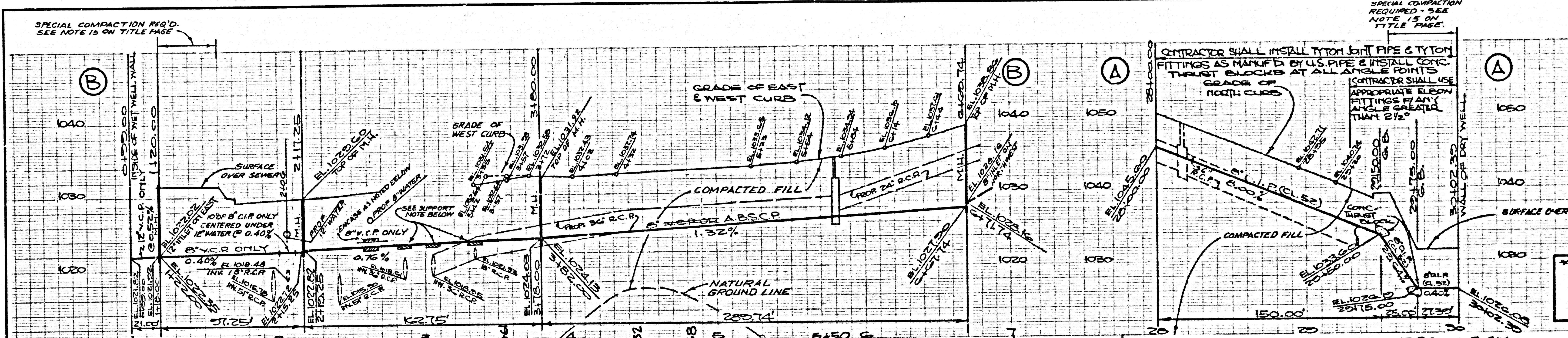


P.C. 10001

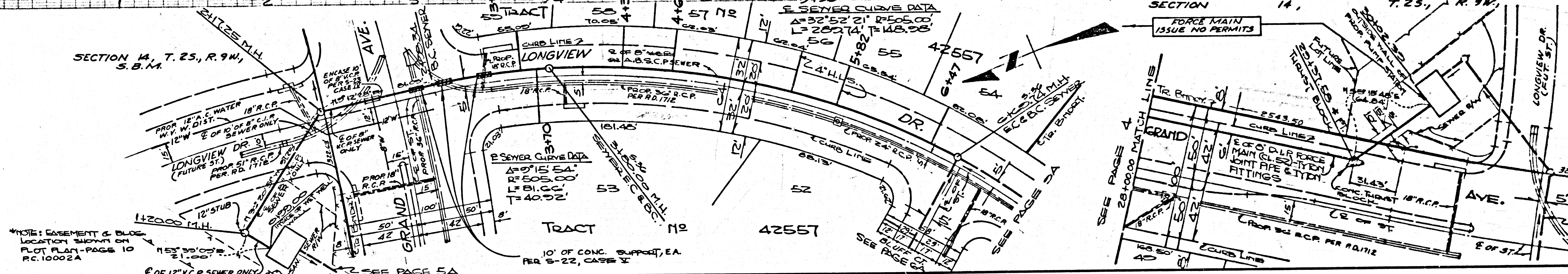
TRACT NO. 4222

NO L.A. COUNTY CHARGE FOR CONNECTIONS
SEE SANDIST FOR SPECIAL CONNECTION CHARGES
DOUBLE SCALE

50814



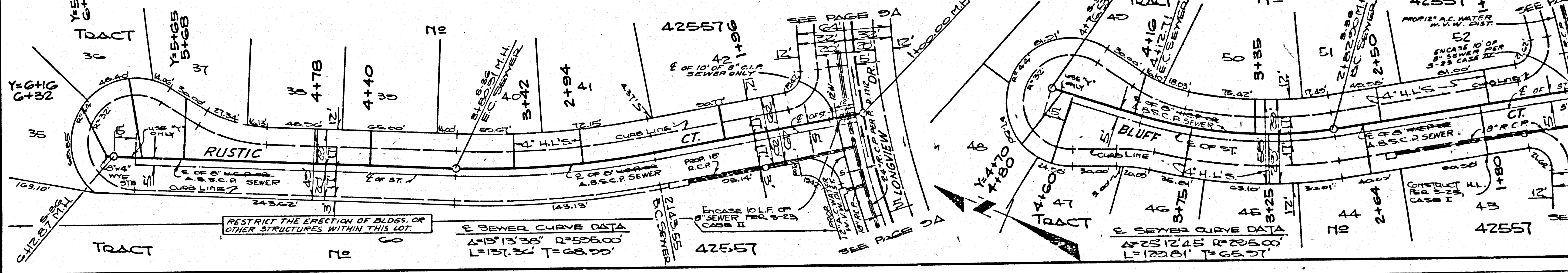
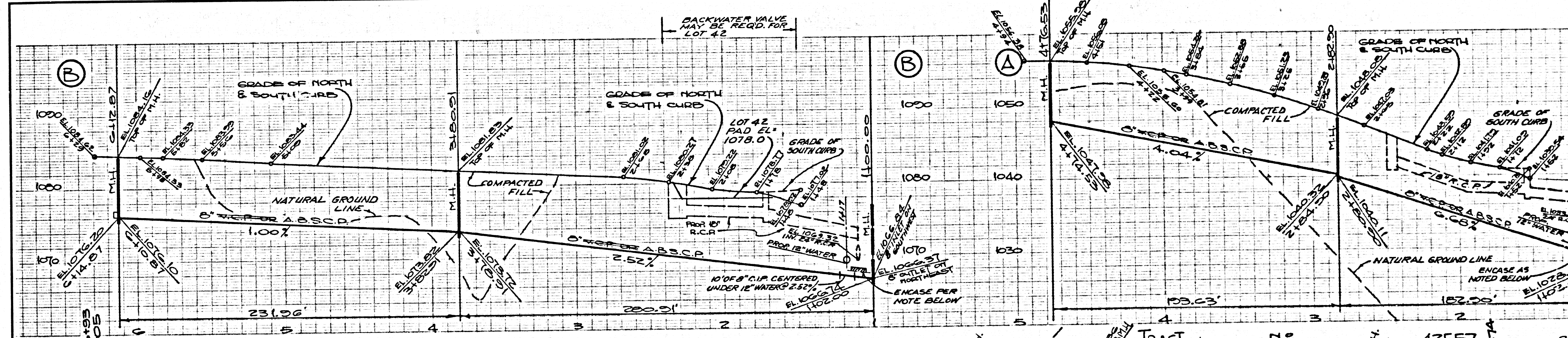
NOTE: ALL CONCRETE THRUST BLOCKS SHALL BE CAST IN ACCORDANCE W/ L.A. CO. WATERWORKS STD. DRWG. HS W-21



NOTE: EASEMENT & BLDG. LOCATION SHOWN ON PLOT PLAN - PAGE 10 P.C. 10002A

NO L.A. COUNTY CHARGE FOR CONNECTIONS
SEE SANDIST FOR SPECIAL CONNECTION CHARGES
DOUBLE SCALE

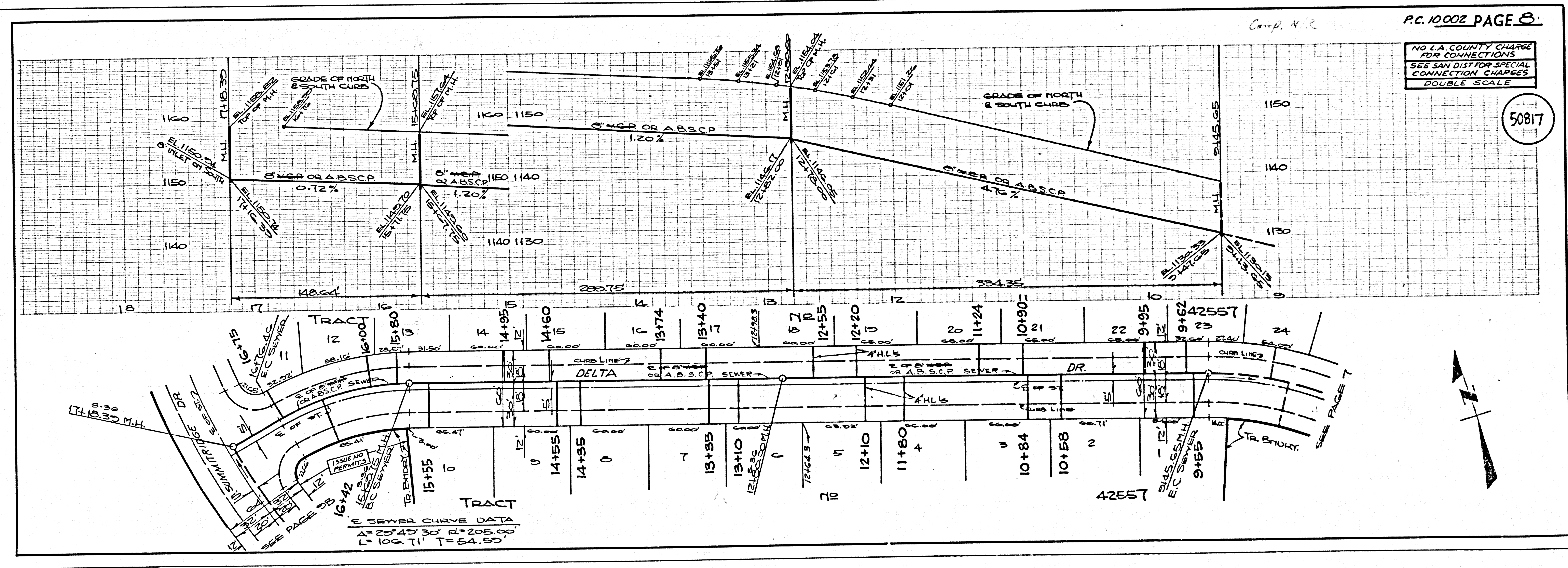
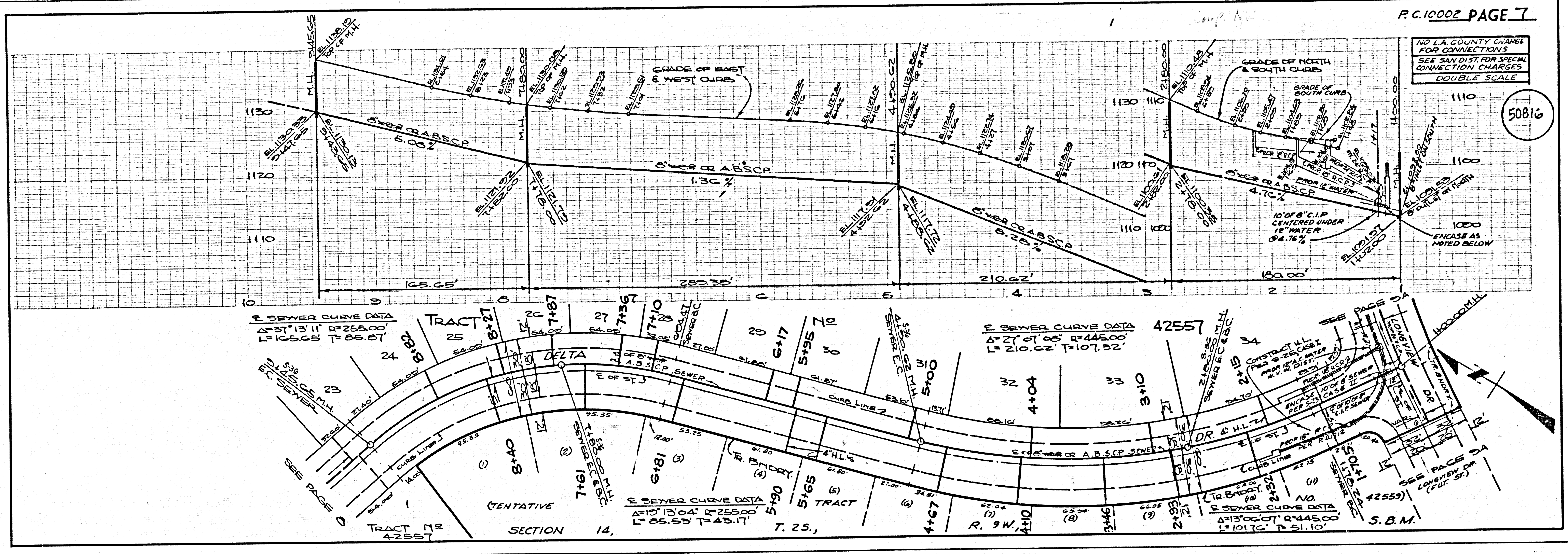
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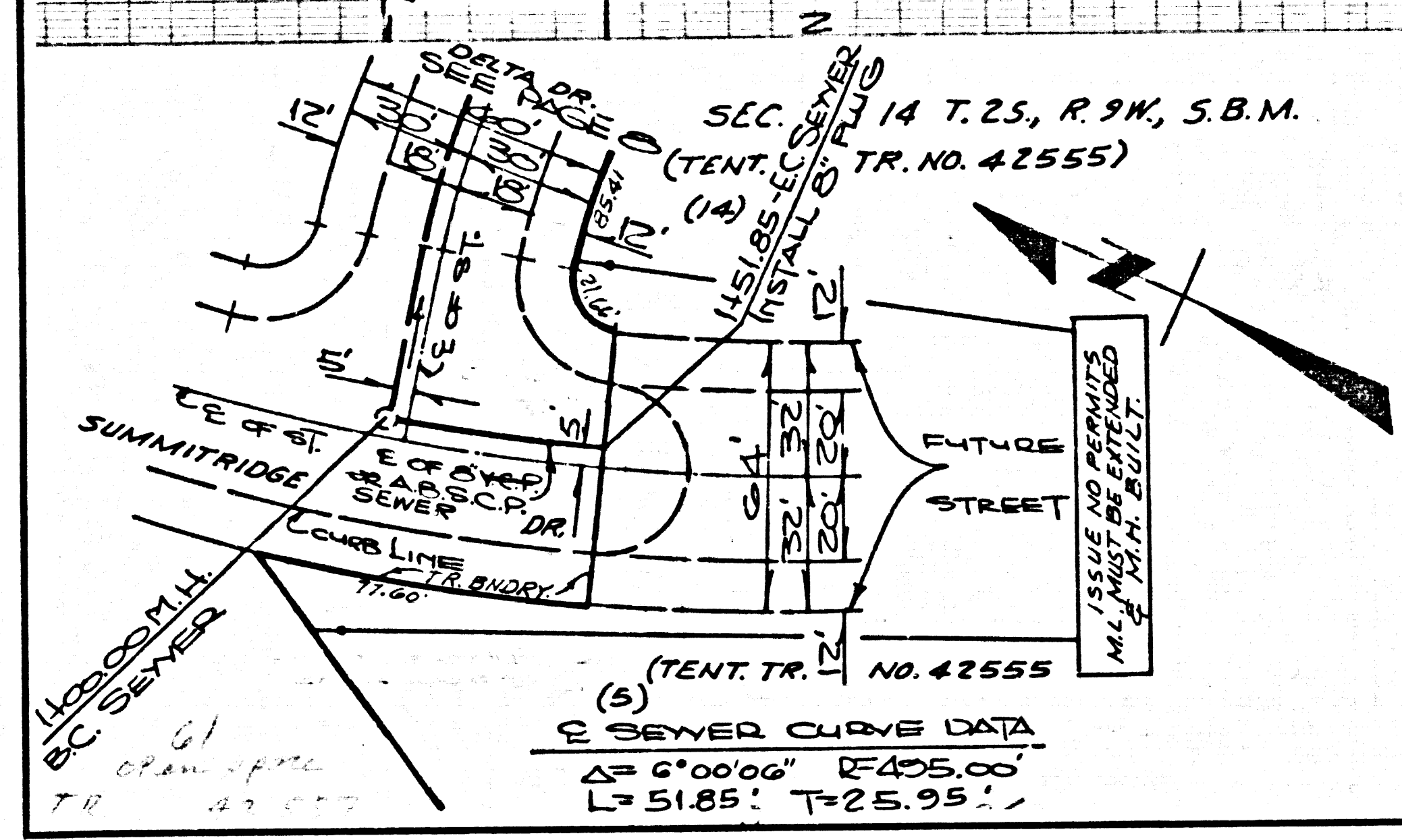
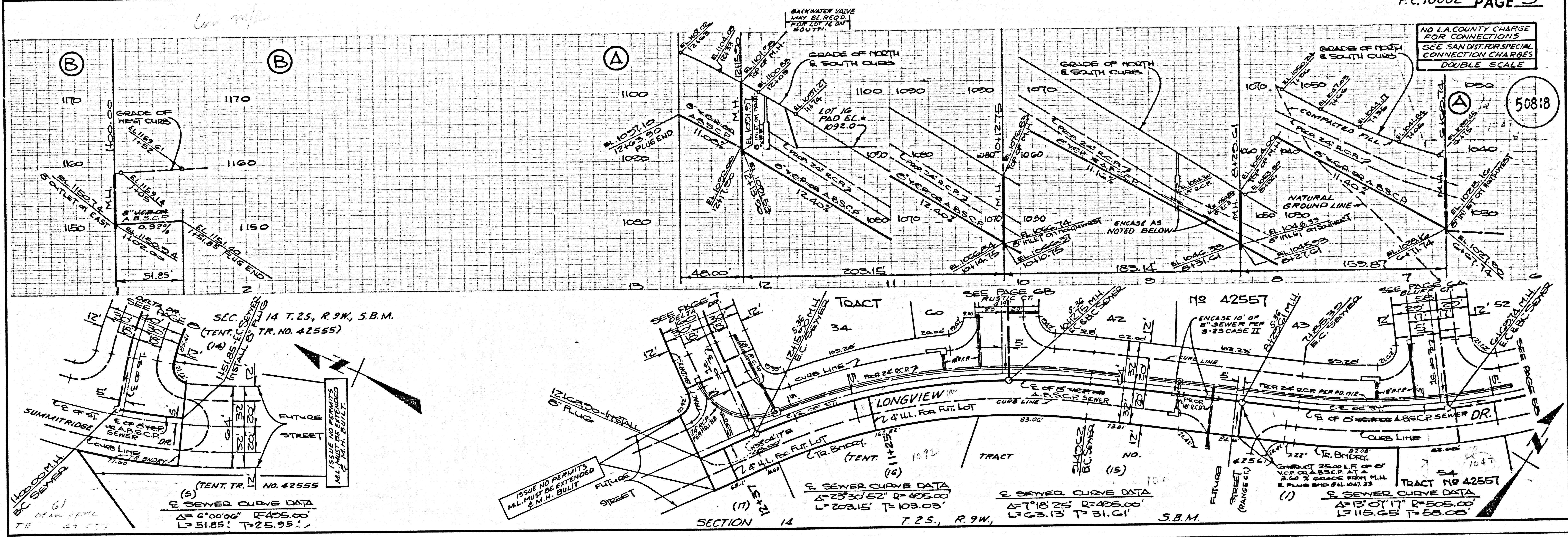


S000129

T2524 ON T2521

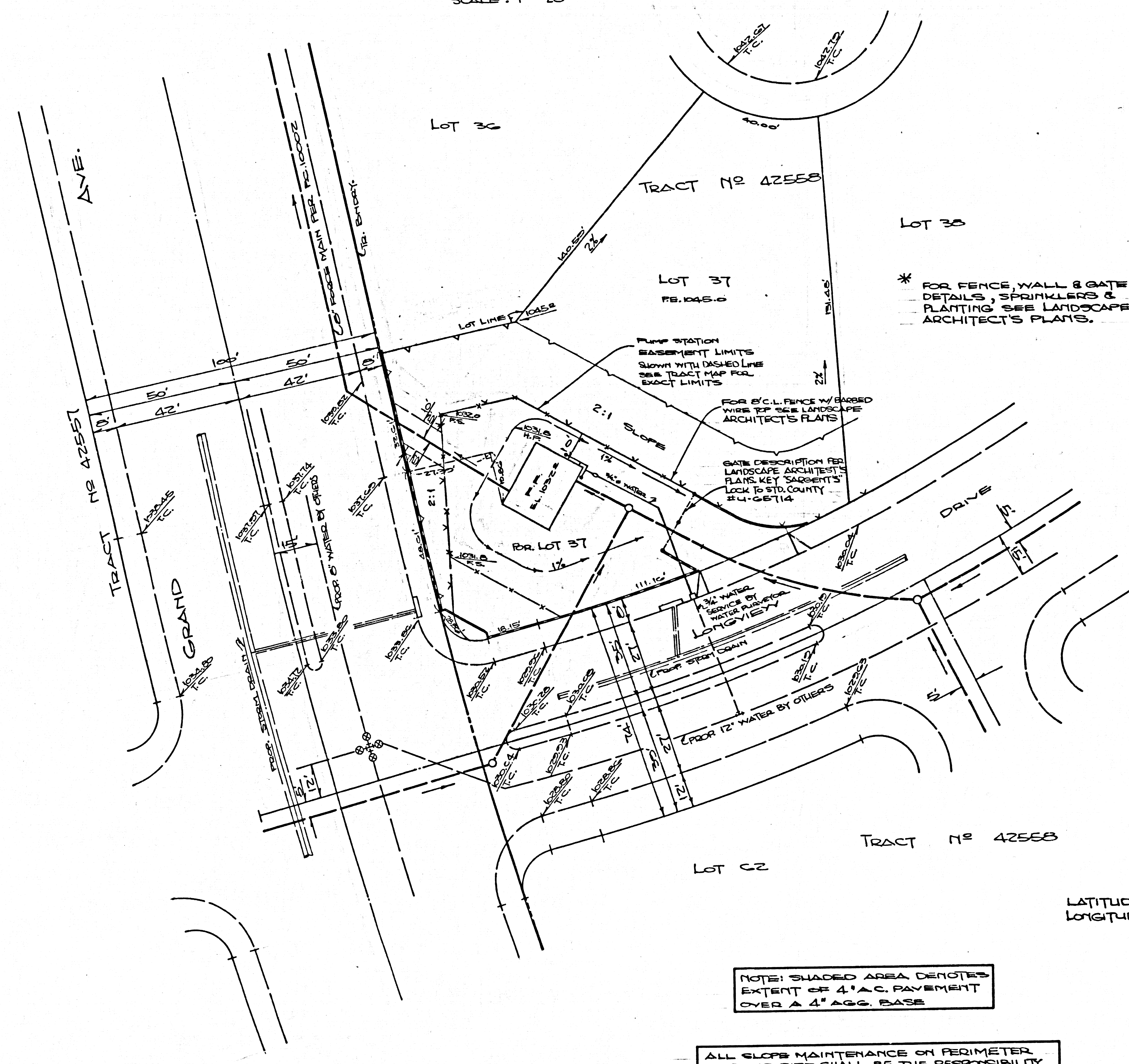
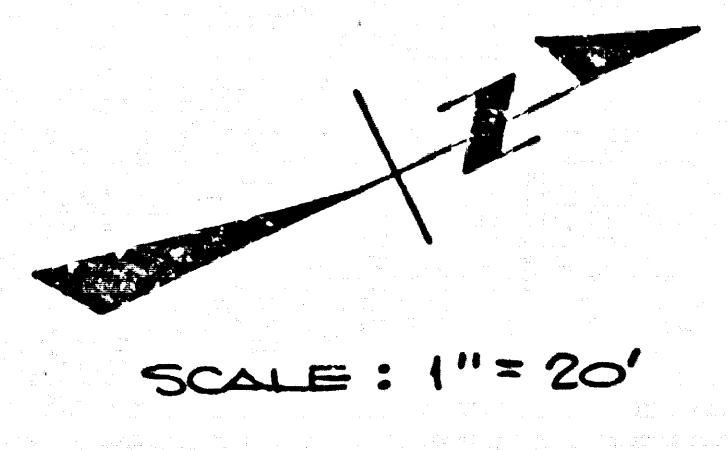
NO L.A. COUNTY CHARGE FOR CONNECTIONS
SEE SAN DIST. FOR SPECIAL CONNECTION CHARGES
DOUBLE SCALE

50818

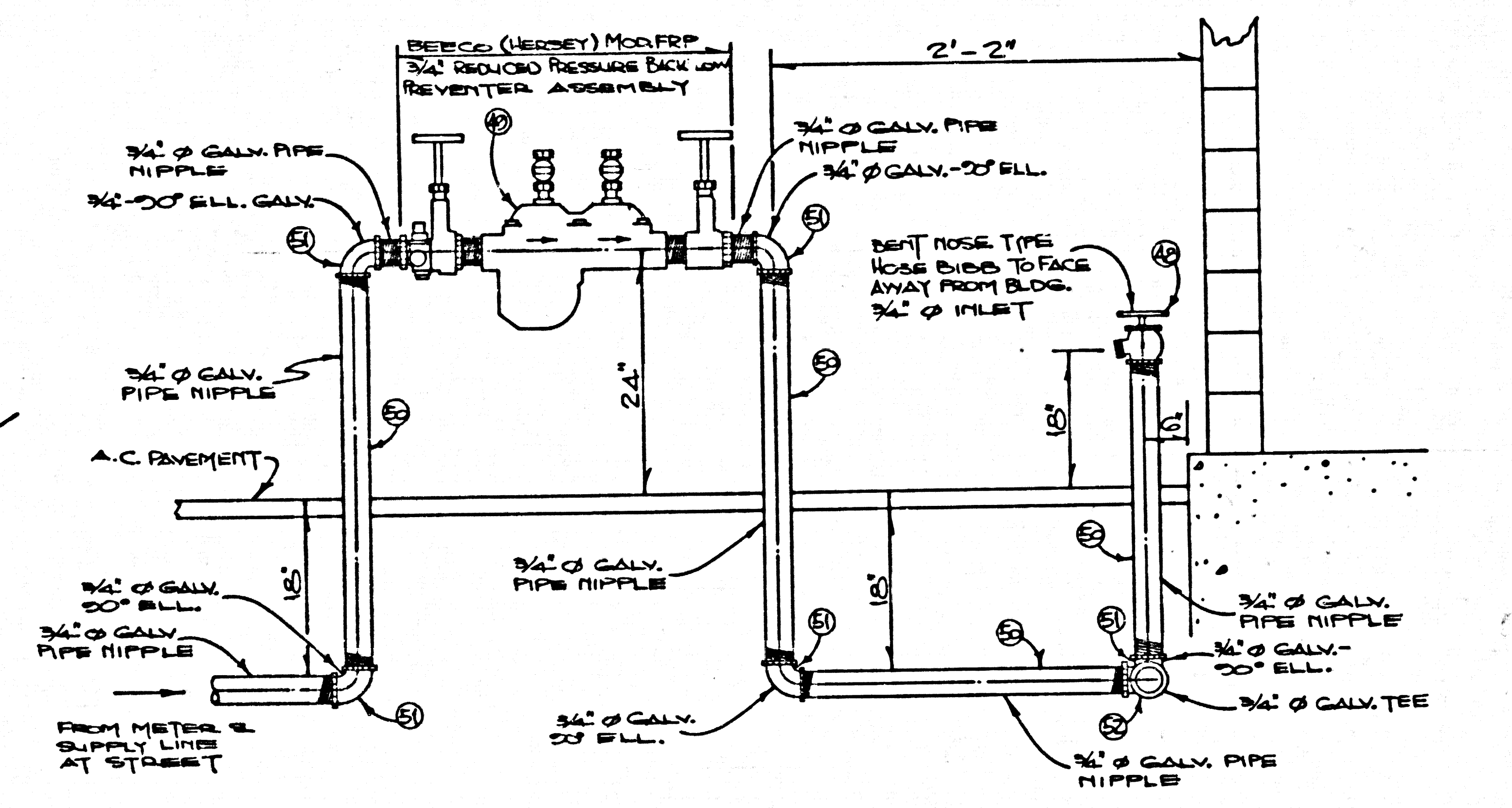
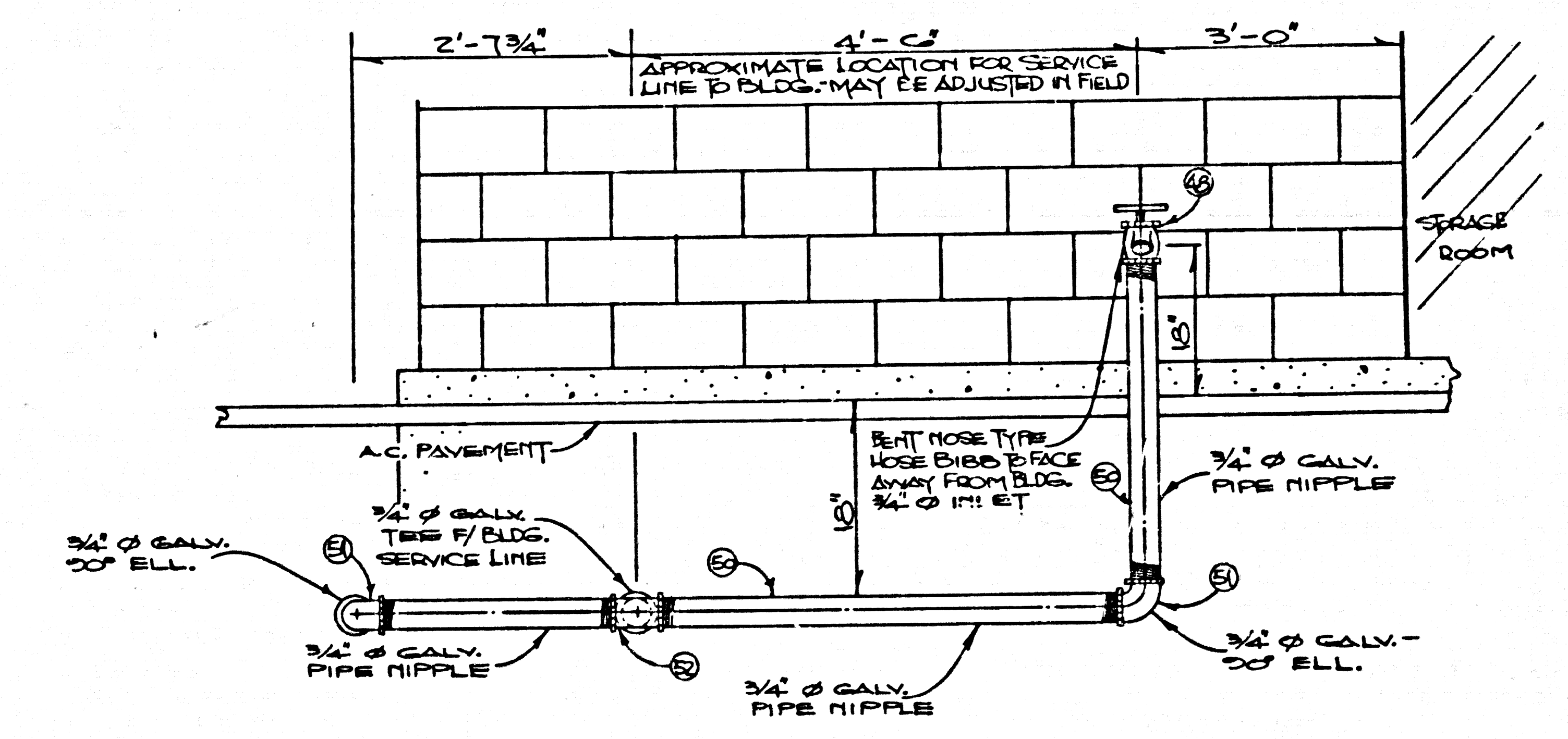


50001.3.9

152254 ON TRACT



* FOR FENCE, WALL & GATE DETAILS, SPRINKLERS & PLANTING SEE LANDSCAPE ARCHITECT'S PLANS.



NOTE: SHADED AREA DENOTES EXTENT OF 4\"/>

ALL SLOPE MAINTENANCE ON PERIMETER OF PUMP SITE SHALL BE THE RESPONSIBILITY OF THE "SUMMIT RIDGE HOMEOWNERS ASSOC."

LATITUDE = 33° 50' 41"
LONGITUDE = 117° 47' 26"

COUNTY OF LOS ANGELES, CALIFORNIA		
STEPHEN J. KOONCE COUNTY ENGINEER		
TRACT NO. 42557		
P.C. 10002-A SEWAGE PUMP STATION		
PLOT PLAN		
ENVIRONMENTAL DEVELOPMENT DIVISION		
SCALE: 1" = 20'	DATE: 11/24	PAGE 10 OF 21 PAGES

PLUMBING MATERIAL SCHEDULE & QUANTITIES

NO.	DESCRIPTION OF ITEM	QUANTITY	UNIT
1	ESSCO TORQUE FLOW PUMP MODEL V.O.P. 4"x12" TF WITH 4"x4" SUCTON FIRST STAGE & 4"x4" DISCHARGE SECOND STAGE AT 182' TDH @ 800 G.P.M. PUMP MOTOR SHALL BE 40 H.P. 3 PHASE, 60 CYCLE, 480 VOLTS, 1750 R.P.M. W/ COUPLING CONNECTION ON BY OF PUMP MOTOR SHALL MEET COUNTY ENG. SEALING STAPLES TYPE 4 AS WRITTEN IN SPEC PACKAGE HYDROMATIC MODEL #23 P.M. 6.4 PRESSOR W/ 1/2" U.P. 1750 R.P.M. 400V THREE PHASE 60 CYCLE MOTOR RATED TO SUPPLY 27 CFM AT 110 P.S.I.G.	4	EA.
2	1/2" x 1/2" H.P. 3 PHASE 60 CYCLE 480 VOLTS 1750 R.P.M. W/ COUPLING CONNECTION ON BY OF PUMP MOTOR SHALL MEET COUNTY ENG. SEALING STAPLES TYPE 4 AS WRITTEN IN SPEC PACKAGE	4	EA.
3	1/2" x 1/2" H.P. 3 PHASE 60 CYCLE 480 VOLTS 1750 R.P.M. W/ COUPLING CONNECTION ON BY OF PUMP MOTOR SHALL MEET COUNTY ENG. SEALING STAPLES TYPE 4 AS WRITTEN IN SPEC PACKAGE	1	EA.
4	AIR CHAMBER: 2'-0" LONG x 8" O.D. 150 LB. C.I.P. W/ 1/2" B.R. FLANGES WALL SUPPORT AS SHOWN COMPLETE W/ LIQUID LEVEL GLASS & PLASTIC GUARD	1	EA.
5	NON-SUBMERGED PUMP RUMP BARGES MOD. #255 COMPLETE W/ 1/2" VOLT. 1 1/2" x 1/2" H.P. AT 1750 R.P.M. MOTOR, 400V 3PH. AT 15 FT. TDH	1	EA.
6	2" O.D. SPOOL (LENGTH AS REQ'D) F.L.G.D. ENDS x FLAIN ENDS	5	EA.
7	2" O.D. SPOOL (LENGTH AS REQ'D) F.L.G.D. ENDS x FLAIN ENDS	5	EA.
8	4" ROCKWELL COUPLING ADAPTER - TYPE 912	2	EA.
9	2" SWING CHECK VALVE, 125 LB. S.W.P. KENNEDY FIG. 100 LS W/ OUTSIDE LEVER & SEALING	2	EA.
10	2" x 2" BASE ELBOW, F.L.G.D. ENDS, 125 LB.	2	EA.
11	2" x 2" (LENGTH AS REQ'D) PIPE SUPPORT W/ F.L.G.'S.	2	EA.
12	2" x 2" D.I.P. REDUCER, F.L.G.D. ENDS	2	EA.
13	2" x 2" x 2" D.I.P. REDUCER, F.L.G.D. ENDS	2	EA.
14	2" x 2" x 2" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
15	2" x 2" x 2" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
16	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
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22	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
23	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
24	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
25	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
26	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
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29	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
30	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
31	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
32	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
33	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
34	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
35	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
36	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
37	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
38	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
39	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
40	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
41	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
42	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
43	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
44	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
45	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
46	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
47	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
48	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
49	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
50	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
51	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.
52	1" x 1" x 1" D.I.P. REDUCER, F.L.G.D. ENDS	1	EA.

NOTE: CONTRACTOR WILL BE IN TOTAL RESPONSIBILITY IN REGARD TO HIS CONTRACT BID QUANTITIES. HE IS CAUTIONED TO REVIEW PLANS IN DETAIL FOR EXACT QUANTITIES & ADVISE ENGINEER OF ANY DISCREPANCIES NOTED. QUANTITIES LISTED BY ENGINEER MAY NOT REFLECT THE TRUE AMOUNT.

* ALL MATERIALS & PRODUCTS DESIGNATED WITHIN THESE PLANS MAY BE SUBSTITUTED WITH "APPROVED EQUAL" MATERIALS & PRODUCTS MEETING THE REQ'D NEEDS & SPECIFICATIONS AS SET FORTH.

GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS.
2. THE PUMPING EQUIPMENT MANUFACTURER'S REPRESENTATIVE SHALL SUPERVISE THE INSTALLATION, STARTING & TESTING OF THE EQUIPMENT.
3. ALL CONSTRUCTION JOINTS TO BE WATERPROOF. THERE SHALL BE NO TRACE OF WATER LEAKS INTO PUMP STATION UPON COMPLETION OF THE PROJECT.
4. ALL WORK & MATERIALS TO BE GUARANTEED FOR NOT LESS THAN ONE (1) YEAR.
5. CONCRETE SHALL BE PORTLAND CEMENT CONCRETE & SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I. AT 28 DAYS.
6. BEDDING & 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.
7. BACKFILL SHALL BE FROM THE MATERIAL EXCAVATED OR SHALL BE A GRANULAR MATERIAL APPROVED BY THE COUNTY ENGINEER.
8. ALL PRACTICES & PROCEDURES, MATERIALS & PLACEMENT OF MATERIALS SHALL CONFORM IN EVERY RESPECT TO THE L.A. COUNTY BUILDING LAWS (1980 EDITION) & TO THE STD. SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (1980 EDITION).
9. ESSCO PUMPS ARE DISTRIBUTED BY "ENGINEERS SALES - SERVICE CO.", 4935 TELEGRAPH RD., L.A. CALIF. 90022 - (213) 261-2181.
10. THE CONTRACTOR SHALL SUPPLY ALL MATERIALS & EQUIPMENT UNLESS OTHERWISE NOTED.
11. THE CONTRACTOR SHALL FURNISH & INSTALL PAINT FOR THE LIFT STATION FROM THE KOPFERS PAINT COMPANY. ALL PAINT, SEE SPECS., SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS & PER PAINTING SCHEDULE SHOWN ON THIS PAGE.
12. NOTCHES OR GROOVES AROUND OPENINGS IN CONCRETE SHALL BE PROVIDED AS REQUIRED TO RECEIVE MANHOLE FRAMES & ACCESSORIES. DIMENSIONS & POSITIONS WHERE NOT SPECIFIED FOR CONDUITS FRAMES & ACCESSORIES SHALL BE DETERMINED FROM THE LAYOUT DETAILS & FROM MANUFACTURER'S SHOP DRAWINGS.
13. NO REVISIONS SHALL BE MADE IN THESE PLANS WITHOUT THE APPROVAL OF THE COUNTY ENGINEER.
14. THE CONTRACTOR SHALL NOTIFY THE ENVIRONMENTAL DEVELOPMENT DIVISION BY TELEPHONE (213) 238-2156, AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
15. RESURFACE ALL TRENCHES WITHIN PAVED AREAS TO MEET L.A. COUNTY ROAD DEPT. OR CALIF. STATE HIGHWAY REQUIREMENTS IN ACCORDANCE WITH PERMITS.
16. ALL STATE & LOCAL TRENCH SAFETY ORDERS TO BE STRICTLY ENFORCED.
17. ALL LOCKS SHALL BE KEYS FOR C.E.F. S.M. STANDARD SARGENT KEY #U 65714.

RADIO TELEMETRY MONITORING MODULE:

1. CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS WITH THE TELEPHONE COMPANY TO HAVE A TELEPHONE INSTALLED AT THE LOCATION SHOWN.
2. THE DRY WELL ALARM ELECTRODES SHALL BE MOUNTED ON AN INTERIOR WALL OF THE DRY WELL & SET TO ACTIVATE AT A WATER LEVEL OF 1032.33 ELEVATION.
3. THE WET WELL ALARM ELECTRODES SHALL BE MOUNTED ON AN INTERIOR WALL OF THE WET WELL & SET TO ACTIVATE AT A WATER LEVEL OF 1026.00 ELEVATION.
4. ALL ELECTRICAL WORK & EQUIPMENT IN THE WET WELL SHALL BE APPROVED FOR USE IN CLASS I, DIVISION 1, HAZARDOUS LOCATION.
5. THE ALARM CONDITION MONITORING DEVICES SHALL BE MOTOROLA INTRAC RADIO TELEMETRY MODULE. REFER TO PAGE 20 OF PLANS FOR TELEMETRY DISCUSSION.

REGIONAL PLANNING COMMISSION REQUIREMENTS:

1. THIS FACILITY SHALL BE OPERATED IN CONFORMANCE WITH CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, LOS ANGELES REGION WASTE DISCHARGE ORDER #R 80-87 & MONITORING & REPORTING PROGRAM #R 6545.
2. OBTAIN CONDITIONAL USE PERMIT.

STRUCTURAL NOTES:

1. STEEL REINFORCEMENT SHALL BE STRUCTURAL GRADE STEEL DEFORMED BARS WITH DEFORMATIONS CONFORMING TO A.S.T.M. SPECIFICATIONS. BAR BENDS & HOOKS SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE MANUAL FOR STANDARD PRACTICE.
2. BAR SIZES ARE GIVEN IN TERMS OF BAR NUMBER. BAR SPACING SHOWN IN INCHES IS CENTER OF BARS. DISTANCES SHOWN FROM FACE OR EDGE OF CONCRETE SURFACE IS TO CENTER OF BARS UNLESS OTHERWISE SHOWN AS "CLR." (CLEAR).
3. ALL "CONSTRUCTION JOINTS" SHALL BE SANDBLASTED.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR CALIFORNIA STATE INDUSTRIAL SAFETY APPROVAL PRIOR TO COMMENCING WORK.

SECURITY REQUIREMENTS:

1. SWINGING DOORS SHALL BE EQUIPPED WITH A DEADBOLT & DEAD LOCKING LATCH. (C103 G)
2. LOCKS SHALL BE KEY OPERATED FROM THE OUTSIDE & OPERATED FROM THE INSIDE BY A DEVICE NOT PROHIBITED BY CHAPTER 83. (C103 G)
3. DEADBOLT SHALL CONTAIN WARDENED INSERTS OR EQUIVALENT. (C103 B)
4. STRAIGHT DEADBOLT SHALL HAVE A MIN. THROW OF ONE INCH WITH NOT LESS THAN 5/8 INCH EMBEDMENT INTO THE HOLDING DEVICE. (C103 B)
5. A HOOK SHAPE OR EXPANDING LUG DEADBOLT SHALL HAVE A MIN. THROW OF 3/4 INCH. (C103 B)
6. ALL LOCKS WHICH AUTOMATICALLY ACTIVATE TWO OR MORE DEADBOLTS SHALL EMBED AT LEAST 1/2 INCH BUT NEED NOT EXCEED 3/4 INCH INTO THE HOLDING DEVICES. (C103 B)
7. IT IS REQUIRED THAT SOLID CORE DOORS BE INSTALLED & THAT THEY SHALL BE NOT LESS THAN 1 3/8 INCHES IN THICKNESS. (C103 W (1))
8. NON-REMOVABLE PINS SHALL BE USED IN ACCESSIBLE PIN TYPE HINGES. (C103 C)
9. DOOR LATCHES SHALL BE OF A METAL TYPE.
10. CYLINDER GUARDS SHALL BE INSTALLED ON DEADBOLTS WHENEVER THE CYLINDER PROJECTS BEYOND THE OUTSIDE FACE OF THE DOOR OR IS ACCESSIBLE TO ATTACK TOOLS. (C103 F)

PLUMBING NOTES:

1. PIPING 1/2" & SMALLER UNLESS OTHERWISE NOTED, SHALL BE SCHEDULE 40 GALVANIZED STEEL WITH 150 LB. MALLEABLE IRON GALVANIZED SCREWED FITTINGS.
2. PIPING FOR THE BUBBLE CONTROL SHALL BE 3/8" P.V.C. IN WET WELL, WITH SOLVENT CEMENT FITTINGS.
3. THE CONTRACTOR SHALL FURNISH & INSTALL ALL HANGERS & SUPPORTS NECESSARY TO PROVIDE A COMPLETE PIPING SUSPENSION SYSTEM.
4. ALL FITTINGS & VALVES SHALL BE FLANGED CLASS #25 CAST IRON UNLESS OTHERWISE SHOWN.
5. THE FORCE MAIN SHALL BE CLASS 52 IN ACCORDANCE WITH STD. SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1980 EDITION.
6. THE FORCE MAIN SHALL BE TESTED WITH 50 P.S.I.A. ABOVE THE PIPE PRESSURE CLASSIFICATION.
7. ALL CONSTRUCTION FOR ON-SITE PLUMBING SHALL CONFORM TO THE UNIFORM PLUMBING CODE (1975 EDITION).

ELECTRICAL NOTES:

1. THE CONTRACTOR SHALL CONTACT & MAKE ARRANGEMENTS WITH THE SOUTHERN CALIFORNIA EDISON COMPANY FOR POWER & SERVICE.
2. THE ELECTRICAL CONTRACTOR SHALL RUN A #4 BARE COPPER M.H.D. GROUND WIRE & ATTACH AS PER CODE TO ALL METAL PIPING, PUMP PLATES & STEPS.
3. THE ELECTRICAL WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE PROVISIONS OF THE NATIONAL ELECTRICAL CODE, STATE SAFETY ORDERS & ALL APPLICABLE LOCAL CODES.
4. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATION SHALL BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS.
5. ALL ELECTRICAL EQUIPMENT IN THE WET WELL TO BE EXPLOSION PROOF PER CLASS I, DIVISION I OF STATE ELECTRICAL SAFETY ORDERS. SEAL CONDUITS INTO THIS AREA. ALL ELECTRICAL IN DRY WELLS SHALL BE VARIOUS TIGHT GASKET AREA SEAL ALL CONDUITS INTO THIS AREA.
6. THE ELECTRICAL CONTROL PANEL SHALL BE AS MANUFACTURED BY ESSCO IN ACCORDANCE WITH L.A. COUNTY ENGINEER SPECIFICATIONS ESSCO - ENGINEERS SALES - SERVICE CO., 4935 TELEGRAPH RD., L.A. CALIF. 90022 - (213) 261-2181.
7. REFER TO SECTION G OF THE SPECIFICATION PACKAGE.

OPERATING REQUIREMENTS:

OPERATION SHALL BE EITHER BY MANUAL OR AUTOMATIC CONTROL. UNDER AUTOMATIC CONTROL, OPERATION SHALL BE EITHER BY MANUAL OR AUTOMATIC CONTROL. UNDER AUTOMATIC CONTROL, THE FIRST STAGE PUMPING UNIT SHALL START BY ACTIVATION OF THE 201Z A.M.V. SWITCH THRU THE ALTERNATOR WHEN THE SEWAGE IN THE WET WELL REACHES ELEV. 1026.00. AFTER 3 SECONDS, THE ALTERNATOR WHEN THE SEWAGE IN THE WET WELL REACHES ELEV. 1026.00, THE SECOND STAGE PUMP 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. 1018.00. THE LEAD PRESSURE SWITCH WILL SHUT OFF THE SECOND STAGE PUMP, THE FIRST STAGE PUMP BEING HELD IN FOR AN ADDITIONAL 5 SECONDS, THEREBY STOPPING THE PRESSURE DOWN GRADUALLY. THE PUMPING OPERATIONS WILL BE ALTERNATED BETWEEN THE FIRST & SECOND SETS OF PUMPS BY THE ALTERNATOR. EITHER PUMPING UNIT MAY BE RUN CONTINUOUSLY BY SWITCHING THE CONTROL LEVER TO THE "HOLD" POSITION. IN THE EVENT THAT THE PUMPING UNIT FAILS TO OPERATE THRU THE ALTERNATOR WHEN THE SEWAGE IN THE WET WELL REACHES ELEV. 1022.00 THE 102Z STAND BY SWITCH WILL ACTIVATE THE ALTERNATE SET OF PUMPS.

PAINTING REQUIREMENTS SCHEDULE:

1. THE CONTRACTOR SHALL FURNISH & INSTALL PAINTING FOR THE LIFT STATION FROM THE KOPFERS PAINT COMPANY AS FOLLOWS:
 - A. ALL PIPING FITTINGS, MACHINERY & ELECTRICAL CABINETS; ONE COAT OF #2 GZG PRIMER, PLUS TWO COATS OF TOBEX ENAMEL (LIGHT GRAY #200).
 - B. INTERIOR CONCRETE FLOORS & SPUR LANDING; TWO COATS OF RAMUL FLOOR ENAMEL (TILE RED #230).
 - C. ALL NON-SUBMERGED TAP-DIPPED PIPE; COLORED ENAMEL WITH TWO COATS OF KOPFERS TAR STP IN PLACE PRIMING.
 - D. INSIDE WALL FACES; ONE PRIME COAT OF RAMUL ALKALI-PROOF UNDERCOATER & TWO COATS OF RAMUL UTILITY ENAMEL (AQUA GREEN #200).
 - E. THE WET WELL; KOPFERS STANDARD BLACK ON FLOORS & WALL TO A POINT 6" ABOVE INFLUENT PIPE. WALLS & CEILING ABOVE THIS LINE TO BE PAINTED WITH RIGORTEX #2324 & MANUFACTURER'S RECOMMENDED PRIMER (WHITE).
 - F. THE AIR RELEASE VALVE COVER & PIPE BARCADES; ONE COAT OF #2 GZG PRIMER, PLUS TWO COATS OF RAMUL UTILITY ENAMEL (TILE REST GREEN #200).
 - G. EXTERIOR BUILDING TRIM SHALL CONFORM TO SECTIONS 210 & 310 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS. THE COLOR SHALL BE BROWN OR AS DESIGNATED BY THE ENGINEER.
 - H. SUPPLY VENT BLOWER HOUSING (3/4 H.P.): BASE & SQUIBBEL CASE SHALL BE SAND-BLASTED TO BARE METAL & COATED INTERIORLY & EXTERIORLY WITH KOPFERS BITUMASTIC 300 OR APPROVED EQUAL.

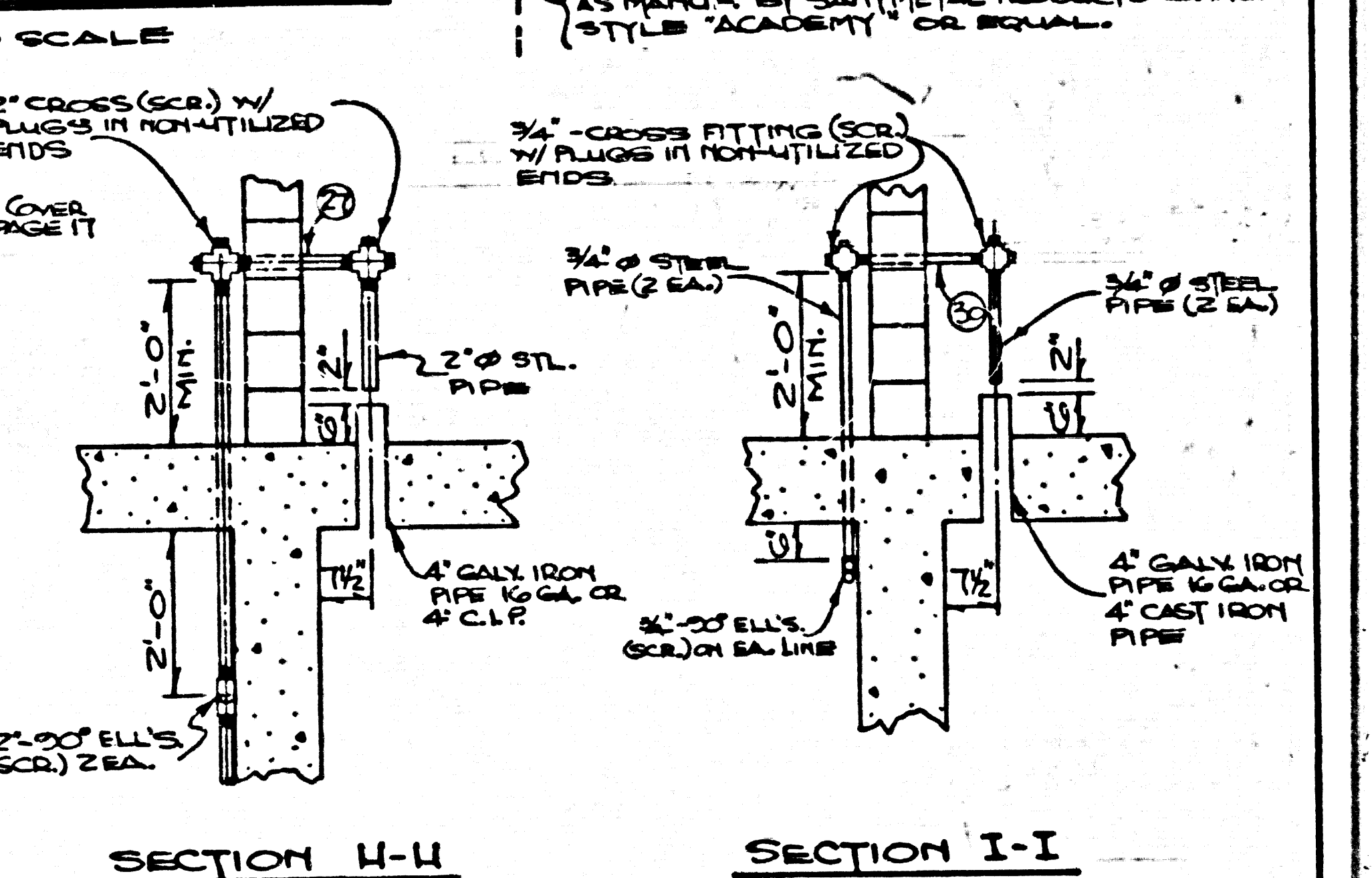
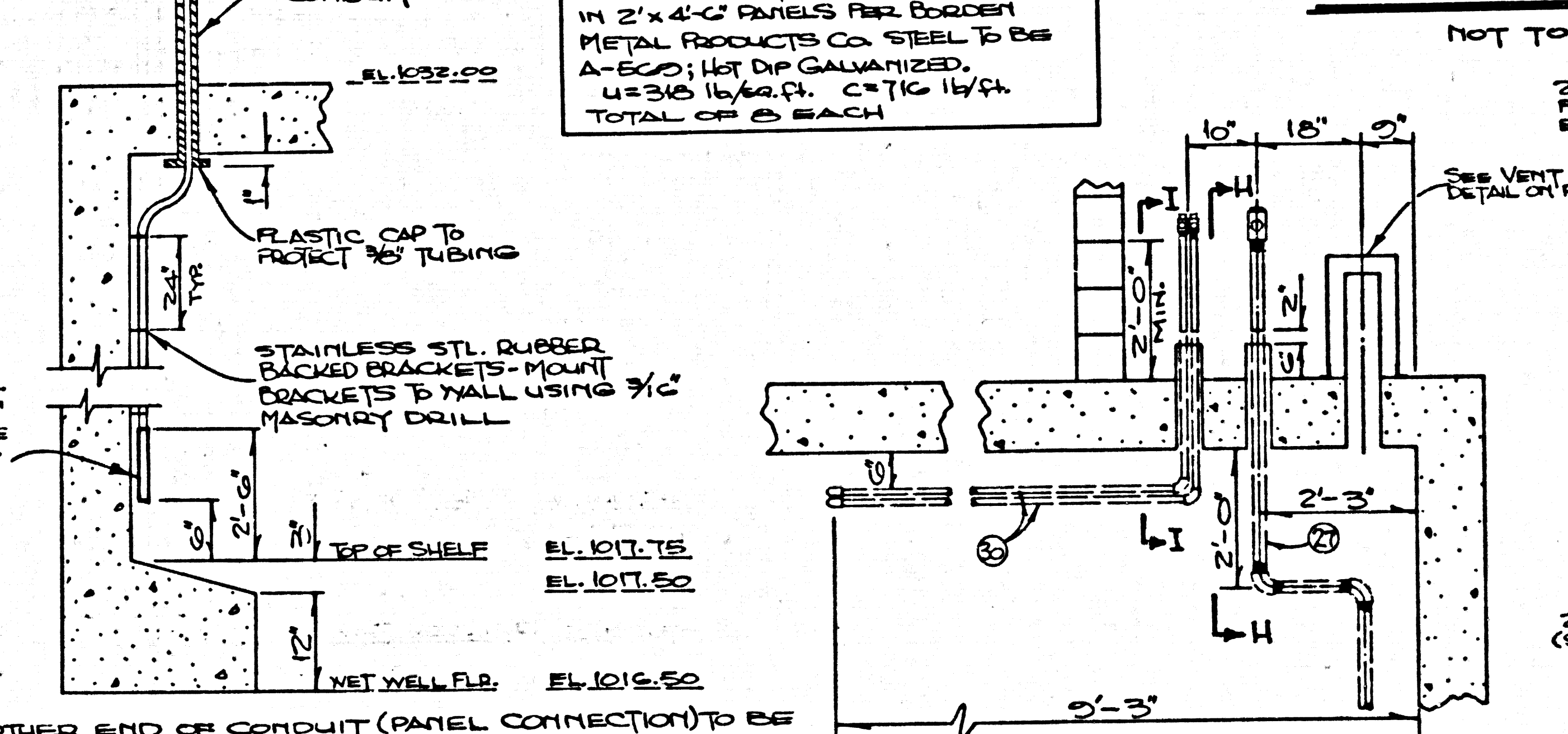
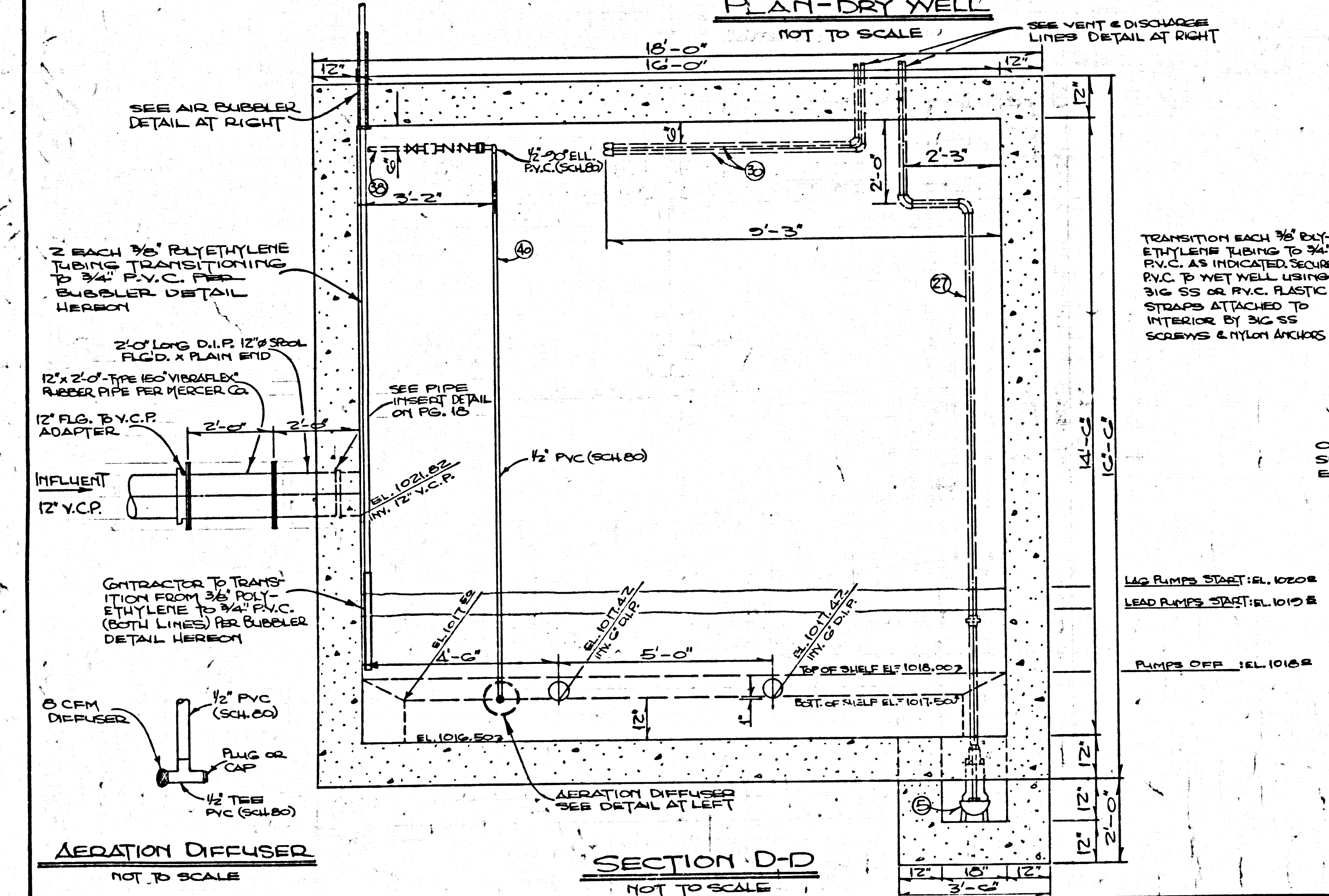
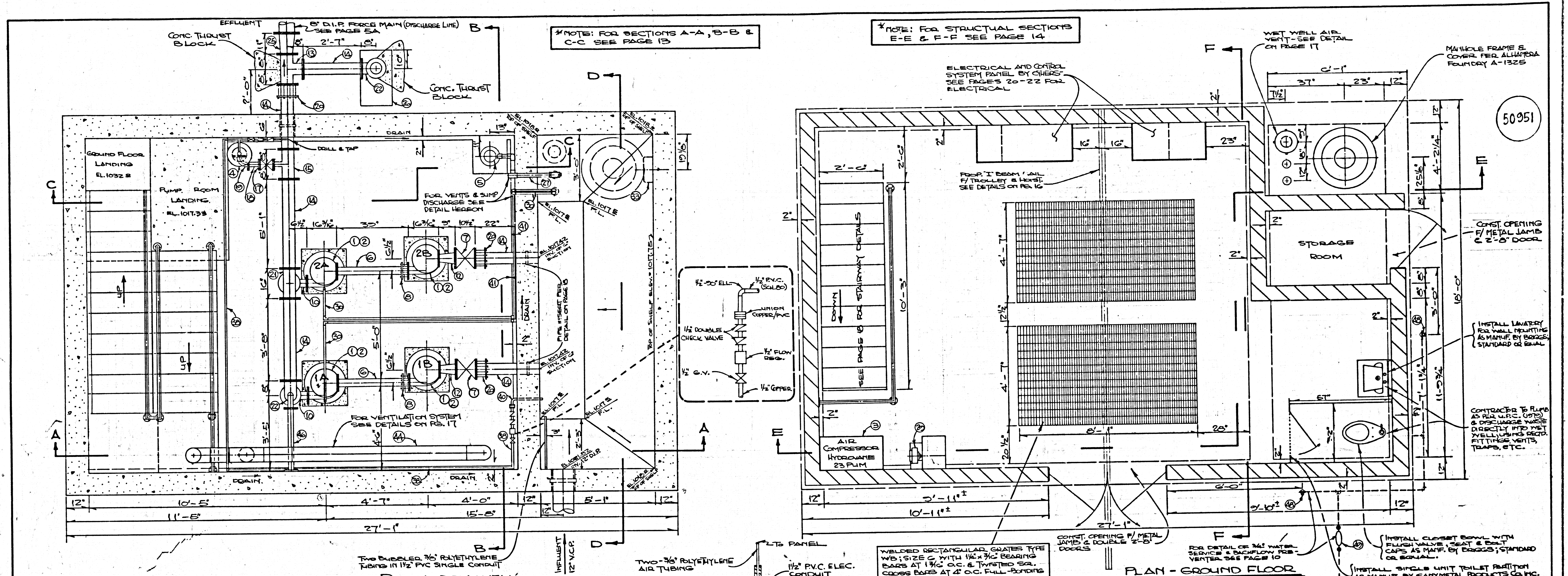
COUNTY OF LOS ANGELES, CALIFORNIA
 STEPHEN J. KOONCE COUNTY ENGINEER

P.C. 10002-A TRACT NO. 42557
 SEWAGE PUMP STATION

MATERIAL SCHEDULE AND NOTES

ENVIRONMENTAL DEVELOPMENT DIVISION

PREPARED IN THE OFFICE OF:
 LIND & HILLERUD, INC.
 2605 HUNTINGTON DR.
 SAN MARINO, CALIF. 91766
 L.H. 617-82

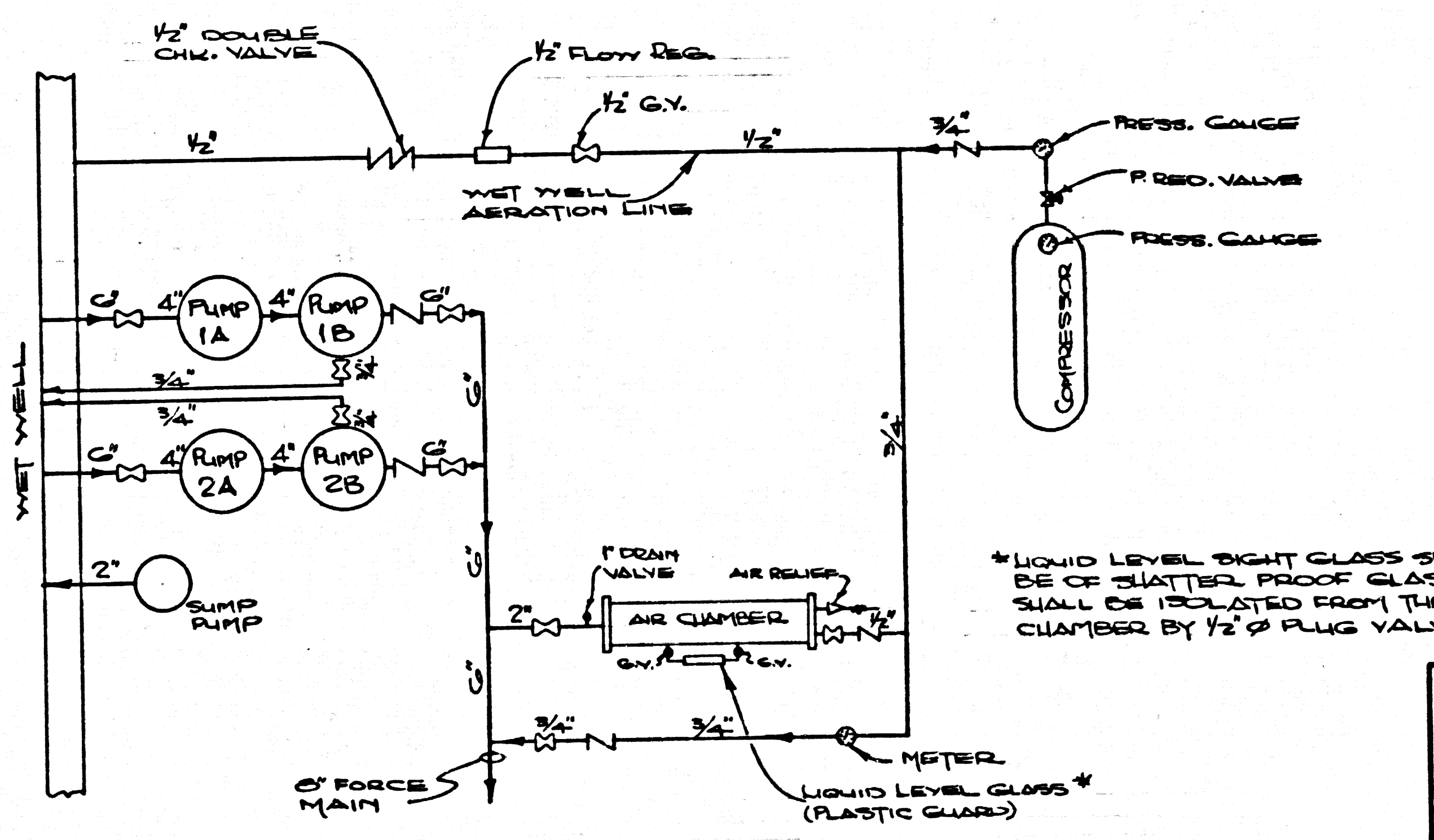
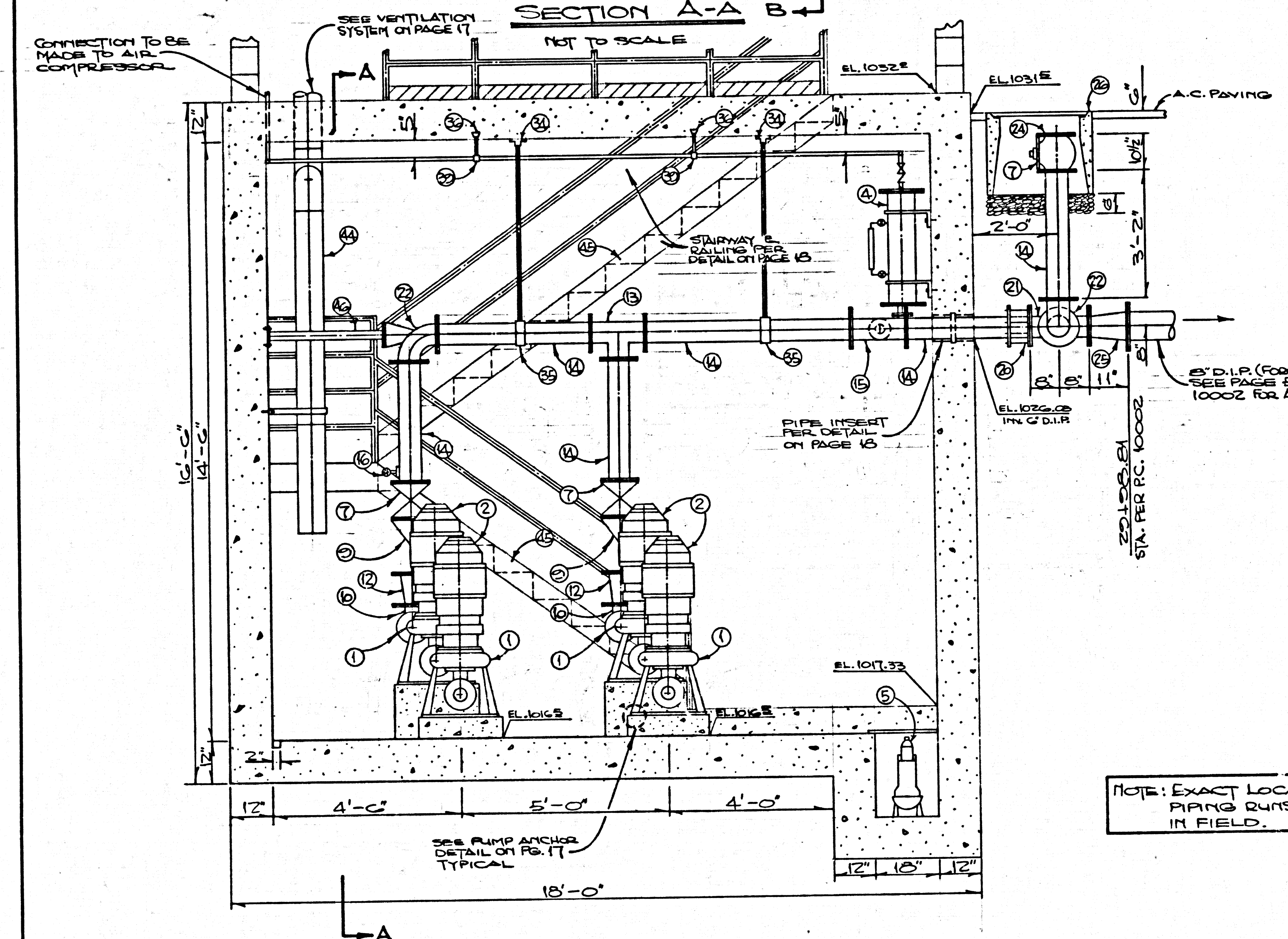
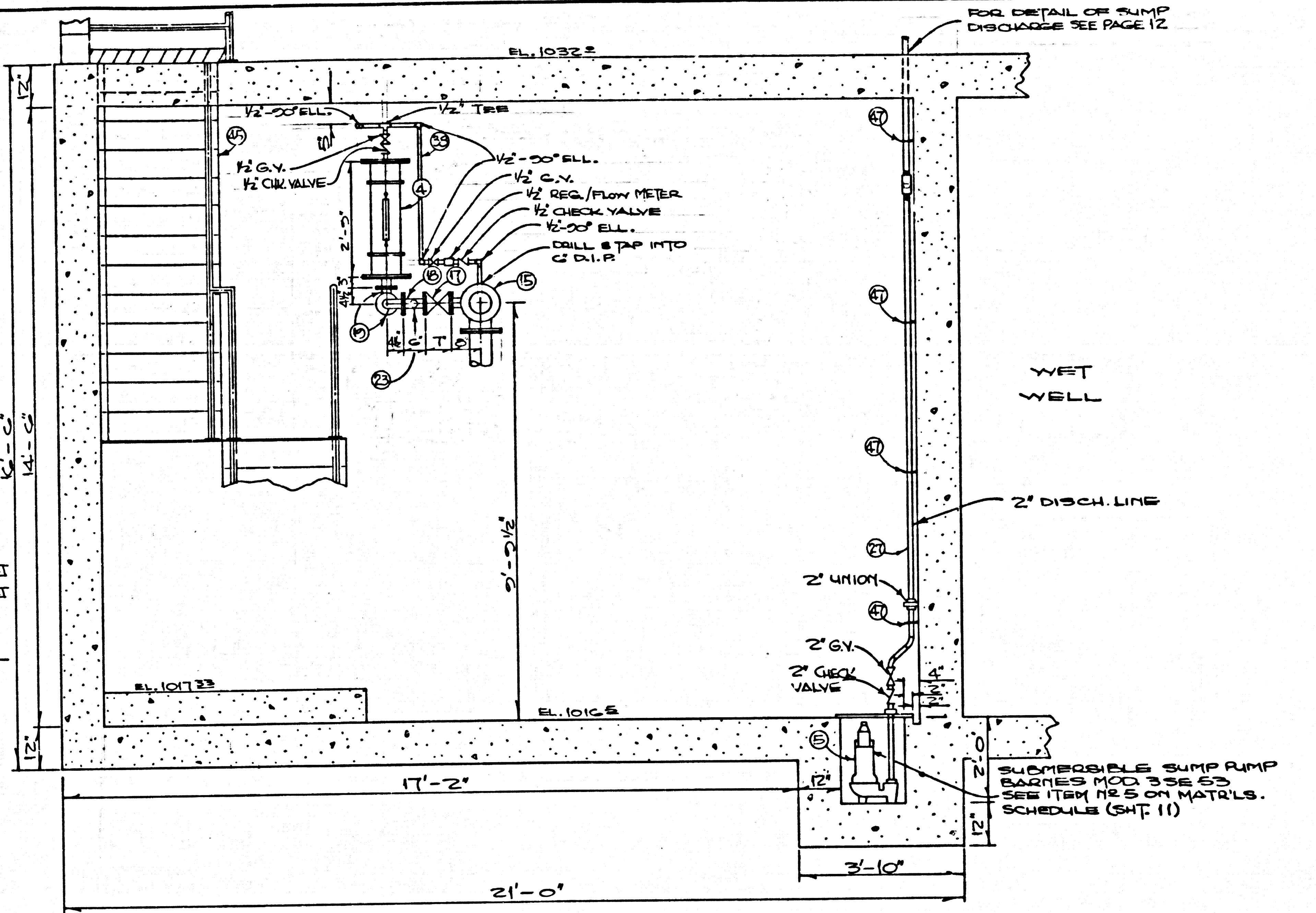
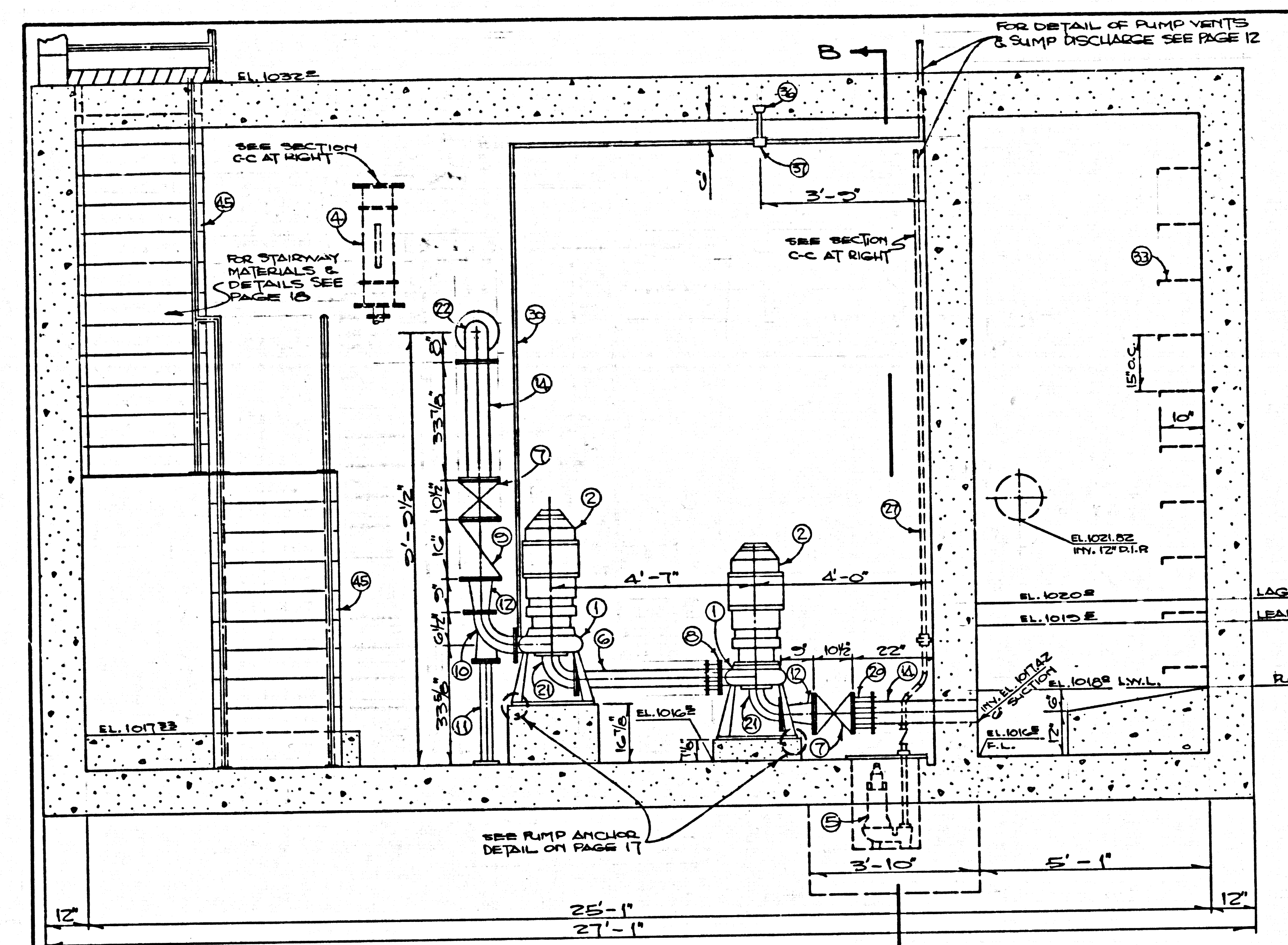


CONTRACTOR TO SAND BLAST ALL CONSTRUCTION JOINTS

***NOTE: EXACT LOCATIONS OF AIR PIPING RUNS TO BE DETERMINED IN FIELD.**

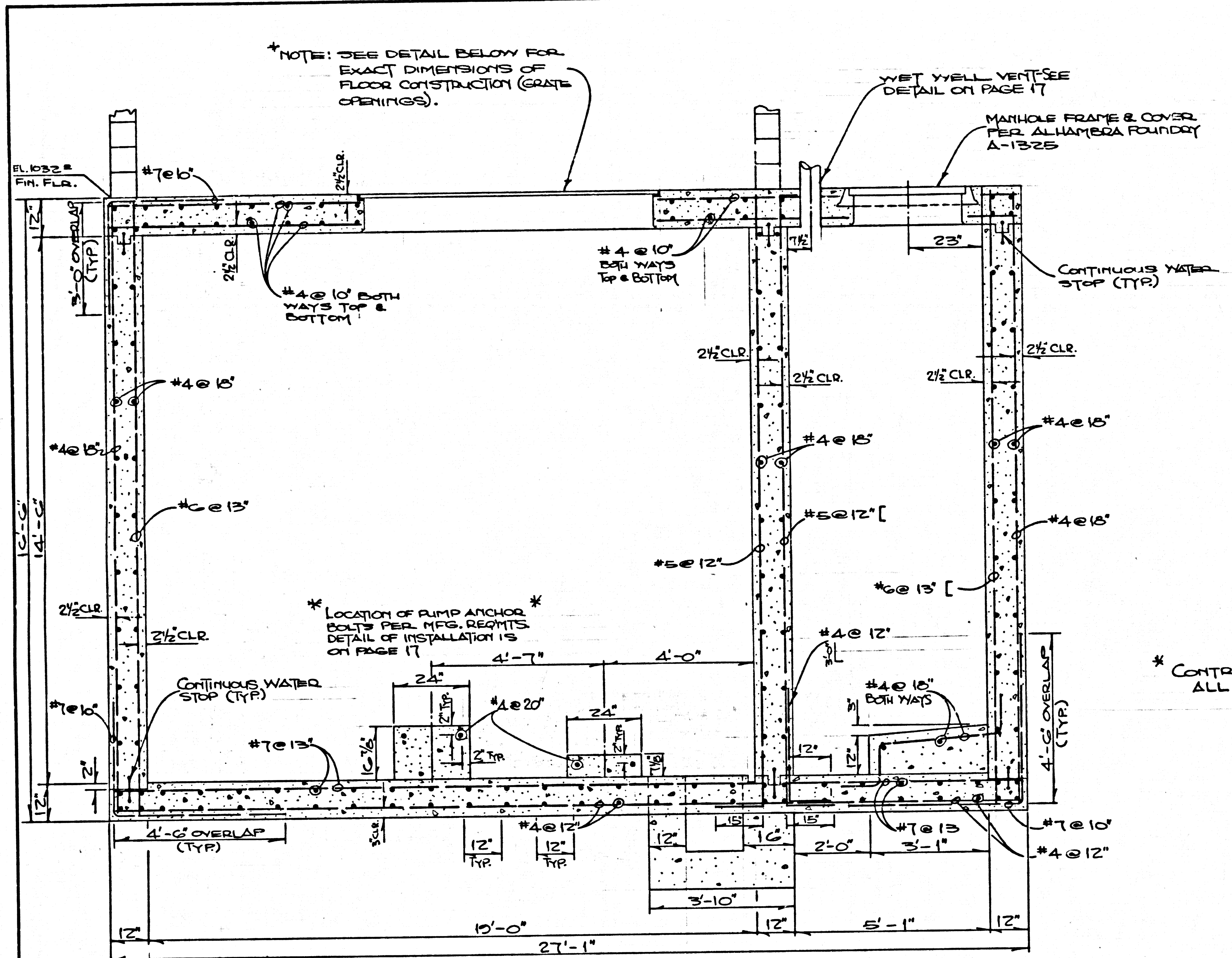
COUNTY OF LOS ANGELES, CALIFORNIA		
STEPHEN J. KOONCE		COUNTY ENGINEER
TRACT NO. 42557		
P.C. 10002-A SEWAGE PUMP STATION		
PUMP STATION PLANS		
LOWER AND UPPER LEVELS		
WET WELL SECTION		
ENVIRONMENTAL DEVELOPMENT DIVISION		
SCALE: AS SHOWN	DATE: 11/81	PAGE 12 OF 21 PAGES

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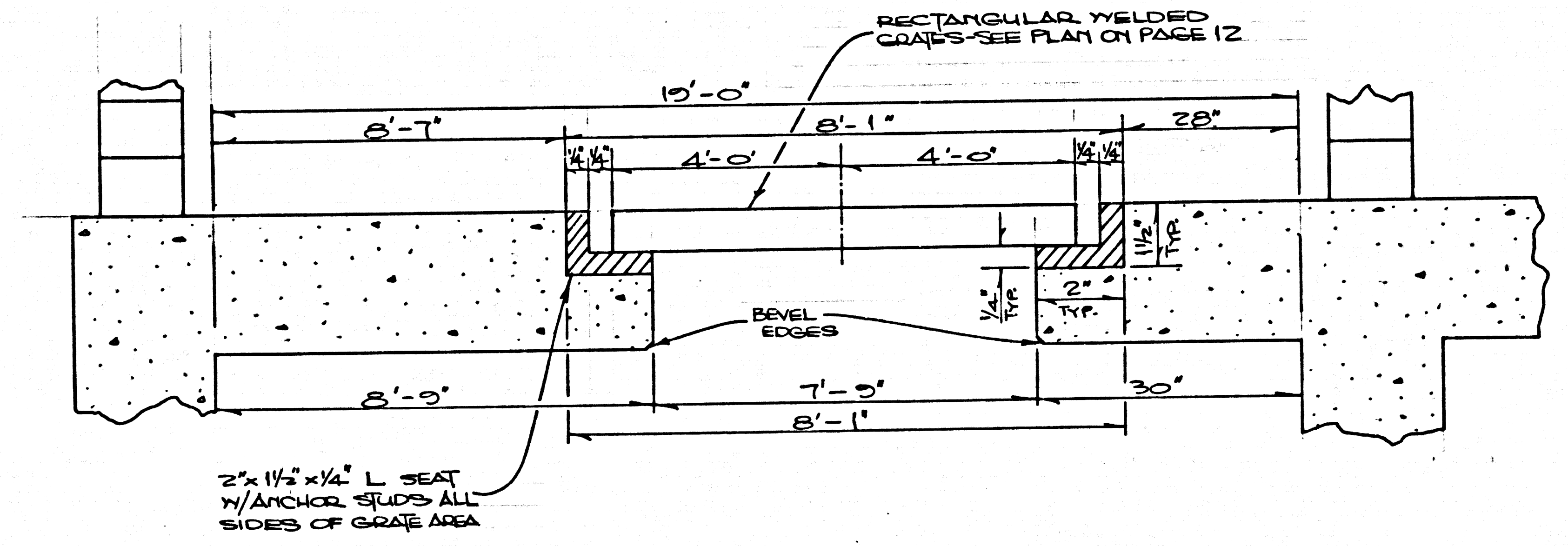


NOTE: EXACT LOCATIONS OF AIR PIPING RUNS TO BE DETERMINED IN FIELD.

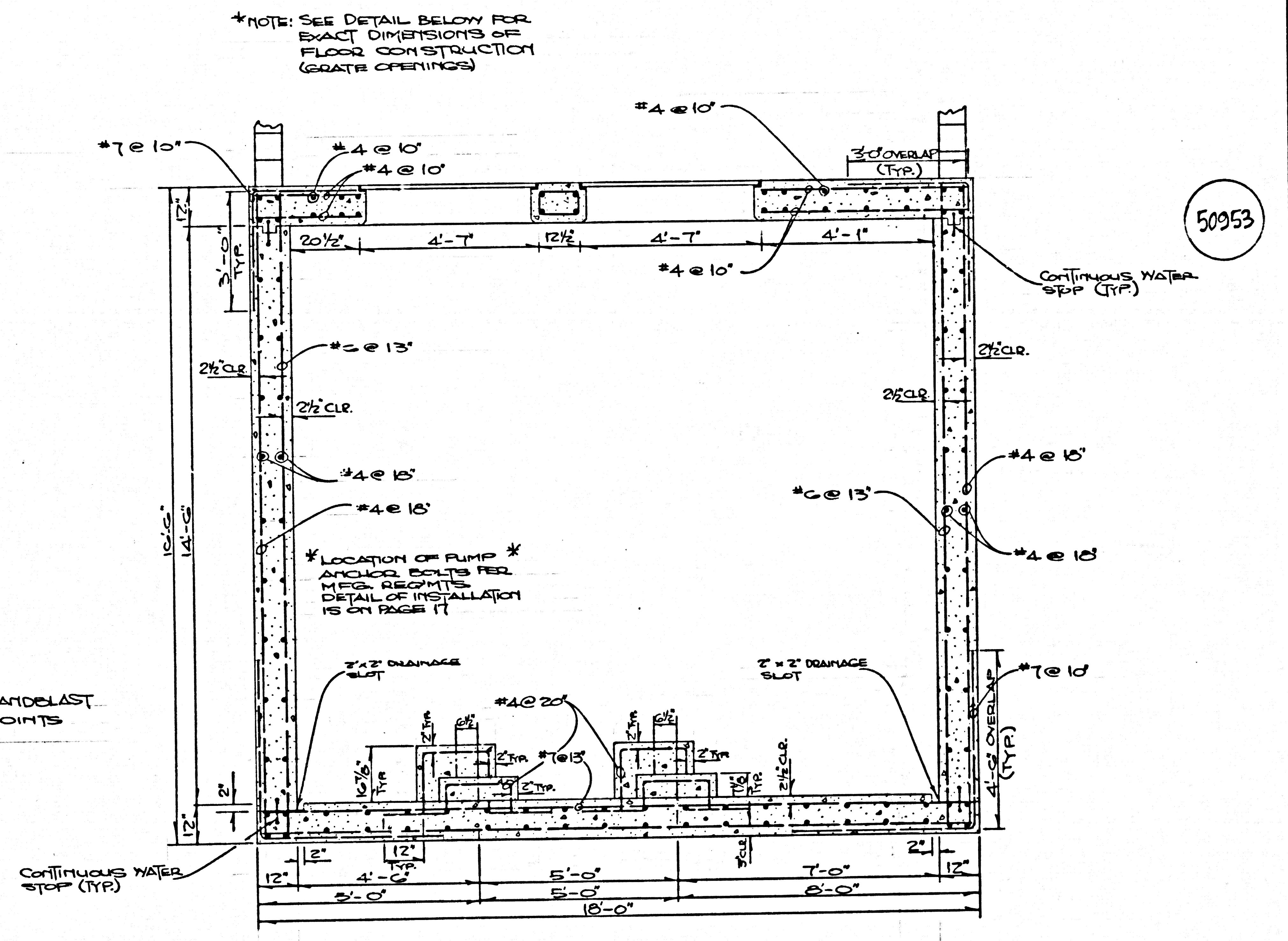
COUNTY OF LOS ANGELES, CALIFORNIA	
STEPHEN J. KOONCE	COUNTY ENGINEER
TRACT NO. 42557	
P.C. 10002-A SEWAGE PUMP STATION	
PUMP STATION SECTIONS	
ENVIRONMENTAL DEVELOPMENT DIVISION	
SCALE: AS SHOWN	DATE: 11/81
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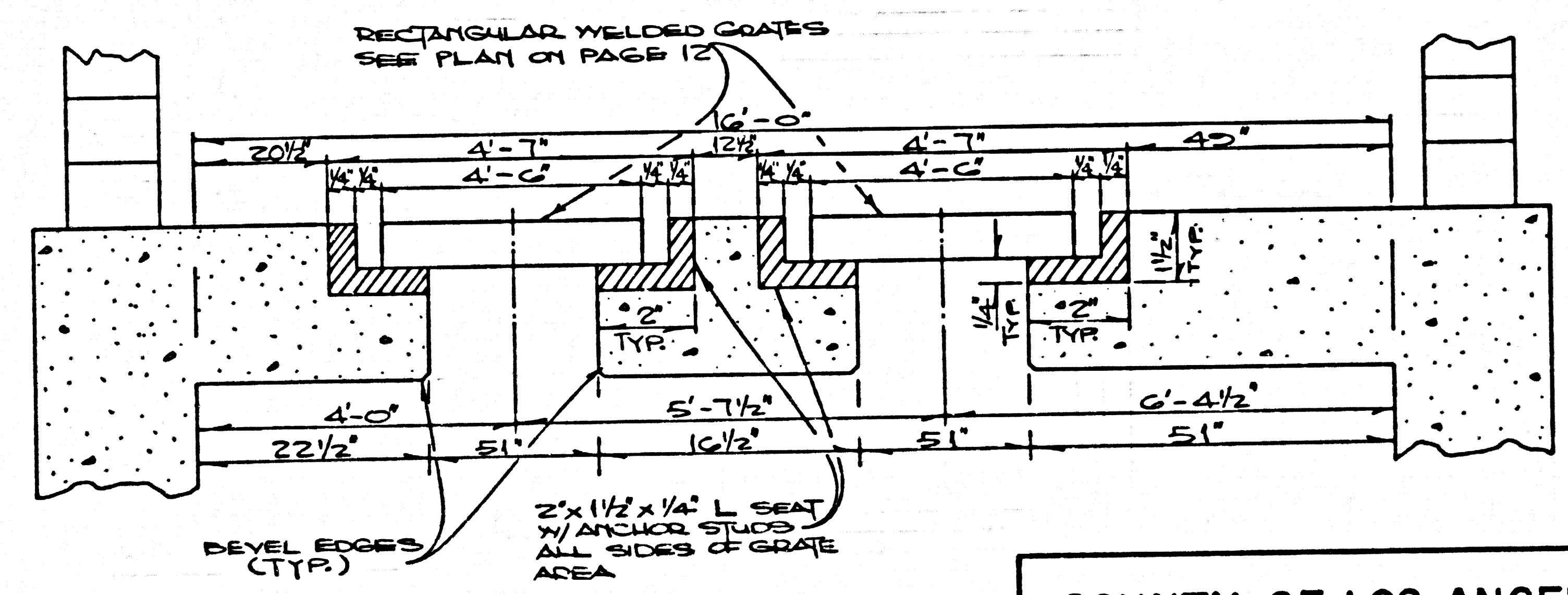
SECTION E-E
NOT TO SCALE



CRATE OPENING DETAIL (LENGTH)
NOT TO SCALE



SECTION F-F
NOT TO SCALE



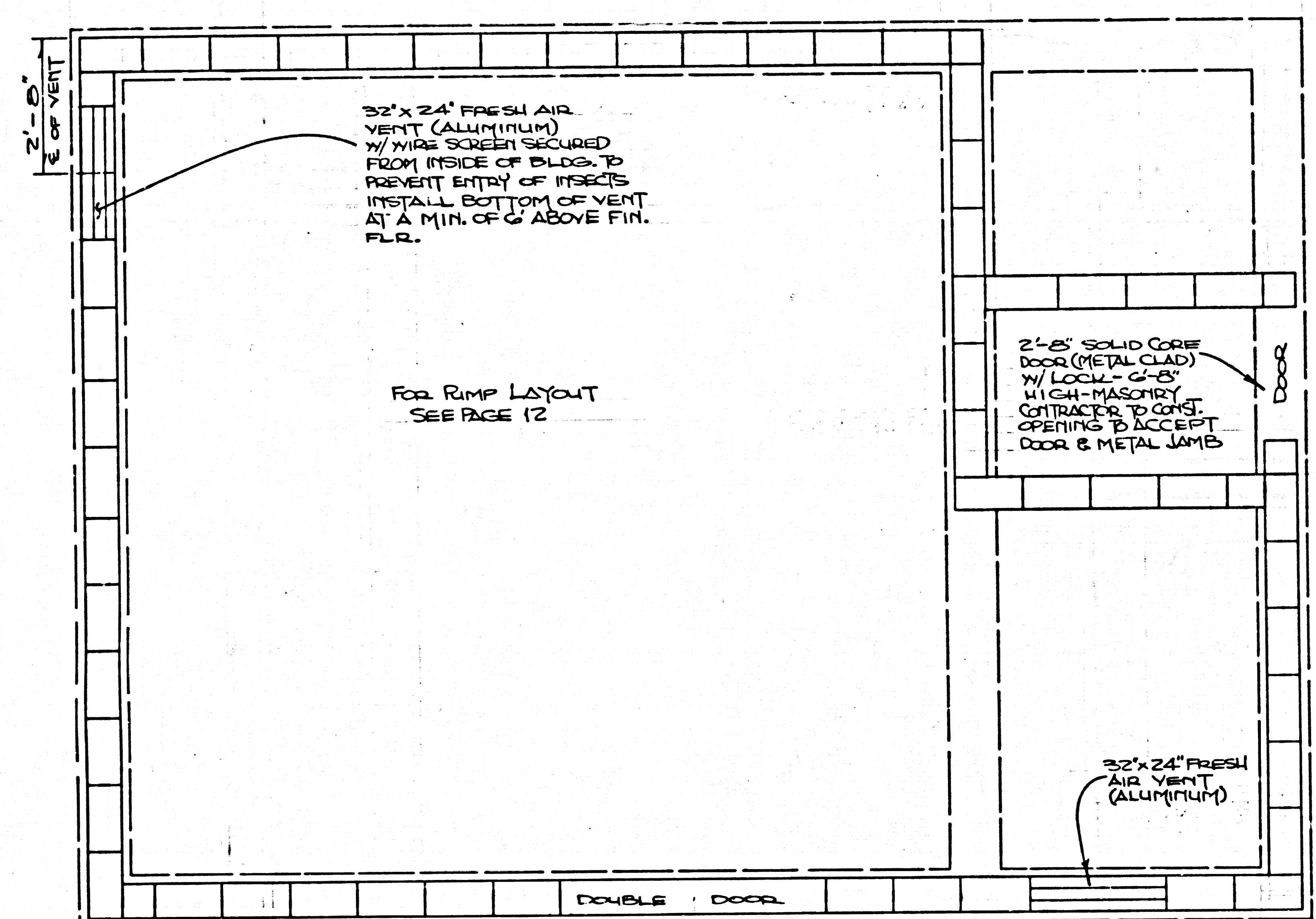
GRATE OPENING DETAIL (WIDTH)
NOT TO SCALE

*INSTALL SLEEVES, BOLTS, ANCHORS & HANGERS PER PLANS

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2008 HUNTINGTON DR.
SAN MARINO, CA 91766
WRL:RL DATE: 6-17-82

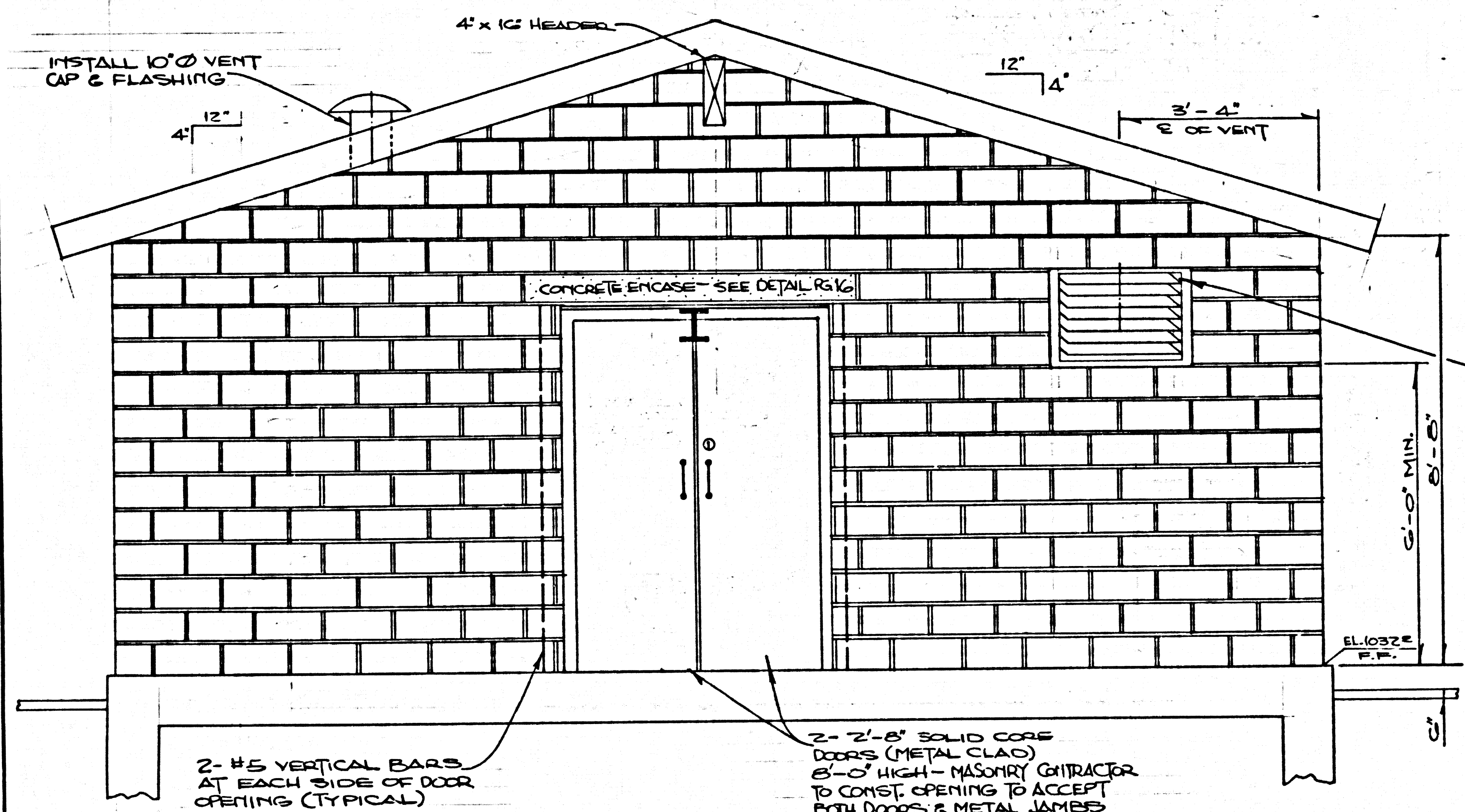
COUNTY OF LOS ANGELES, CALIFORNIA	
STEPHEN J. KOONCE	COUNTY ENGINEER
TRACT NO. 42557	
P.C. 10002-A	SEWAGE PUMP STATION
STRUCTURAL SECTIONS	
ENVIRONMENTAL DEVELOPMENT DIVISION	
SCALE: AS SHOWN	DATE: 11/81
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FOR RAMP LAYOUT
SEE PAGE 12

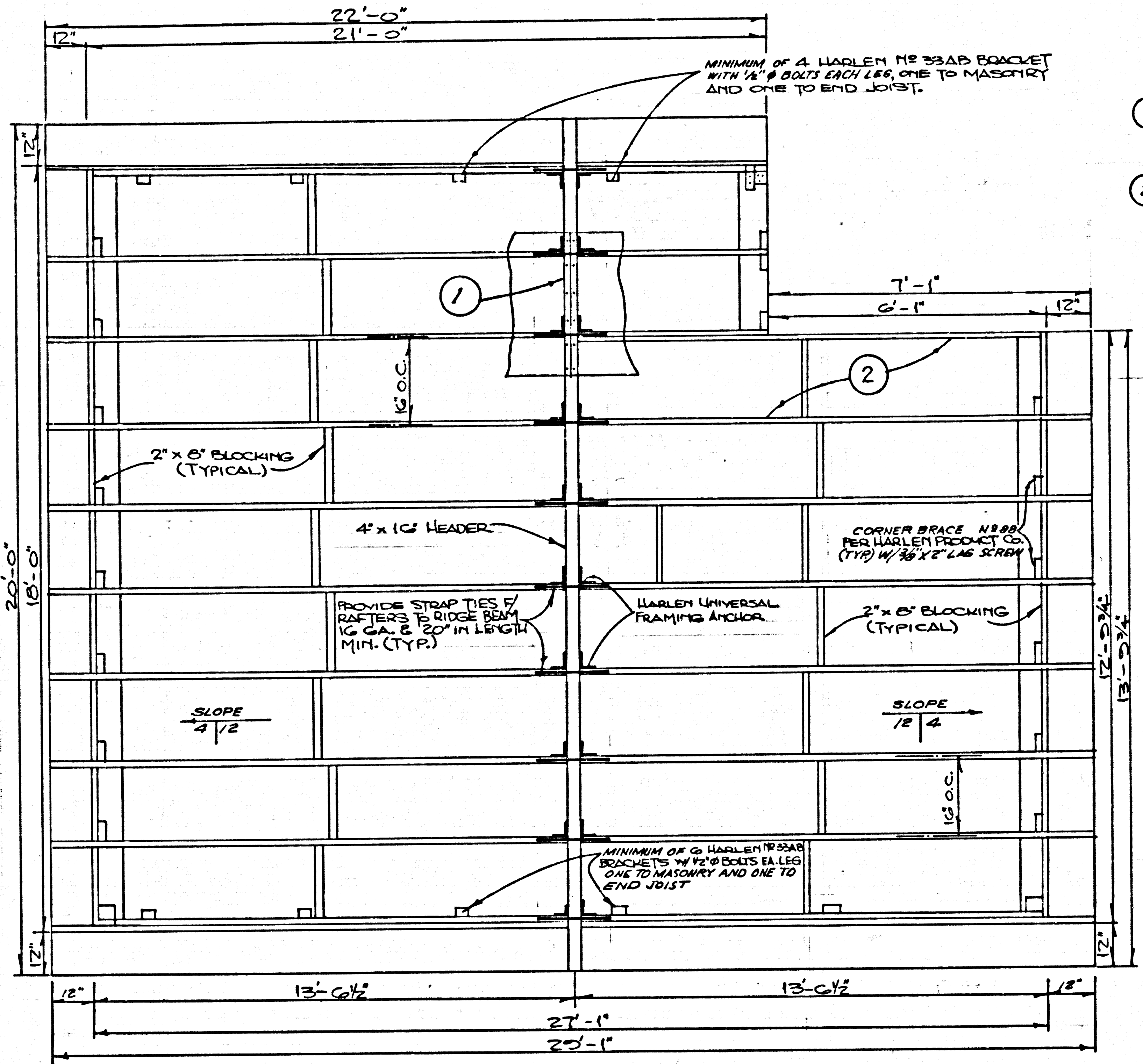
PLAN
CONTROL BUILDING
NOT TO SCALE



2- #5 VERTICAL BARS
AT EACH SIDE OF DOOR
OPENING (TYPICAL)

2- 7'-0" SOLID CORE
DOORS (METAL CLAD)
8'-0" HIGH - MASONRY CONTRACTOR
TO CONST. OPENING TO ACCEPT
BOTH DOORS & METAL JAMBS

ELEVATION
CONTROL BUILDING
NOT TO SCALE



ROOF PLAN
NOT TO SCALE

32x24 FRESH AIR VENT
(ALUMINUM) W/ WIRE SCREEN
SECURED FROM INSIDE OF
BLDG. TO PREVENT ENTRY OF
INSECTS (TYPICAL).

CONCRETE MASONRY

MASONRY UNITS SHALL BE GRADE A UNITS CONFORMING TO ASTM SPEC. C90-52. CEMENT SHALL CONFORM TO ASTM C150-52. MORTAR SHALL BE FRESHLY PREPARED AND UNIFORMLY MIXED IN RATIO 1 PART CEMENT, 1/4 PART LIME PUTTY, 3 1/2 PARTS SAND AND SHALL CONFORM TO ASTM SPEC. C270-52T. GROUT SHALL BE OF FLUID CONSISTENCY AND MIXED IN RATIO 1 PART CEMENT 3 PARTS SAND, OR 1 PART CEMENT, 2 PARTS SAND, 2 PARTS PEA GRAVEL. REINFORCING BARS SHALL CONFORM TO ASTM SPEC. 15-52 AND A 305-50 FOR DEFORMED STEEL BARS.

CONST. SHALL BE OF THE BEST QUALITY WORKMANSHIP AND WALLS SHALL BE TRUE AND PLUMB. MORTAR JOINTS SHALL BE NOMINAL 3/8" THK. AND SHALL BE TOoled WITH A ROUND BAR TO PRODUCE A CONCAVE JOINT. MORTAR JOINTS SHALL BE CLEAN, STRAIGHT AND UNIFORM IN THICKNESS.

ABOVE EACH OPENING 2-#5 HORIZONTAL BARS SHALL BE INSTALLED WITH EACH END EXTENDING A MINIMUM OF 2 FEET BEYOND OPENING. THE HORIZONTAL COURSE SHALL BE GROUTED SOLID.

CONSTRUCTION NOTES

- 1 5/8" C.D.X. STRUCTURAL II 14/32 RATED SHEATHING SHALL BE LAID LENGTHWISE ACROSS CEILING JOIST W/ SOLID BLOCKING AT ALL JOINTS & NAILED W/ 6d NAILS @ 6" O.C. AT PANEL EDGES & 12" O.C. AT INTERMEDIATE SUPPORTS.
- 2 2" x 8" CEILING JOIST @ 16" O.C.

GENERAL NOTES:

- 1 WORK PERFORMED SHALL COMPLY AS NOTED ON PLANS OR SPECIFICATIONS, UNIFORM BUILDING CODE (2001 EDITION) OR APPLICABLE LOCAL & STATE CODES, ORDINANCES & REGULATIONS.
 - 2 ON SITE VERIFICATION OF ALL DIMENSIONS & CONDITIONS SHALL BE THE RESPONSIBILITY OF THE SUB-CONTRACTOR.
 - 3 CALIFORNIA TILE (I.C.B.O. #2562) SHALL BE INSTALLED IN ACCORDANCE WITH THE USC STD'S & TO THE MANUFACTURER'S RECOMMENDED PRACTICE.
 - 4 ALL LUMBER SHALL BE GRADE MARKED & CONFORM WITH THE LATEST STD. GRADING & DRESSING RULES OF THE WEST COAST LUMBER INSPECTION BUREAU.
 - 5 ALL LUMBER IN CONTACT W/ CONCRETE & MASONRY SHALL BE FOUNDATION GRADE REDWOOD OR PRESSURE TREATED DOUGLAS FIR.
 - 6 ALL VERTICAL FRAMING LUMBER SHALL BE "STUD" GRADE W.C.D.F. ALL HORIZONTAL FRAMING LUMBER SHALL BE DOUGLAS FIR LARCH NO. 2 GRADE OR BETTER UNLESS OTHERWISE NOTED.
 - 7 ALL HORIZONTAL BEAMS 4" THICK, 6" & WIDER SHALL BE DOUGLAS FIR LARCH NO. 1 GRADE OR BETTER.
 - 8 SIMPSON PRODUCTS OR ANY OTHER APPROVED EQUAL MAY BE SUBSTITUTED IN PLACE OF HARLET.
 - 9 WOOD DIAPHRAGM PLACEMENT & NAILING MUST BE INSPECTED & APPROVED BEFORE COVERING.
- * SEE SECURITY REQ'TS. ON PAGE 11

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COUNTY OF LOS ANGELES, CALIFORNIA
STEPHEN J. KOONCE COUNTY ENGINEER

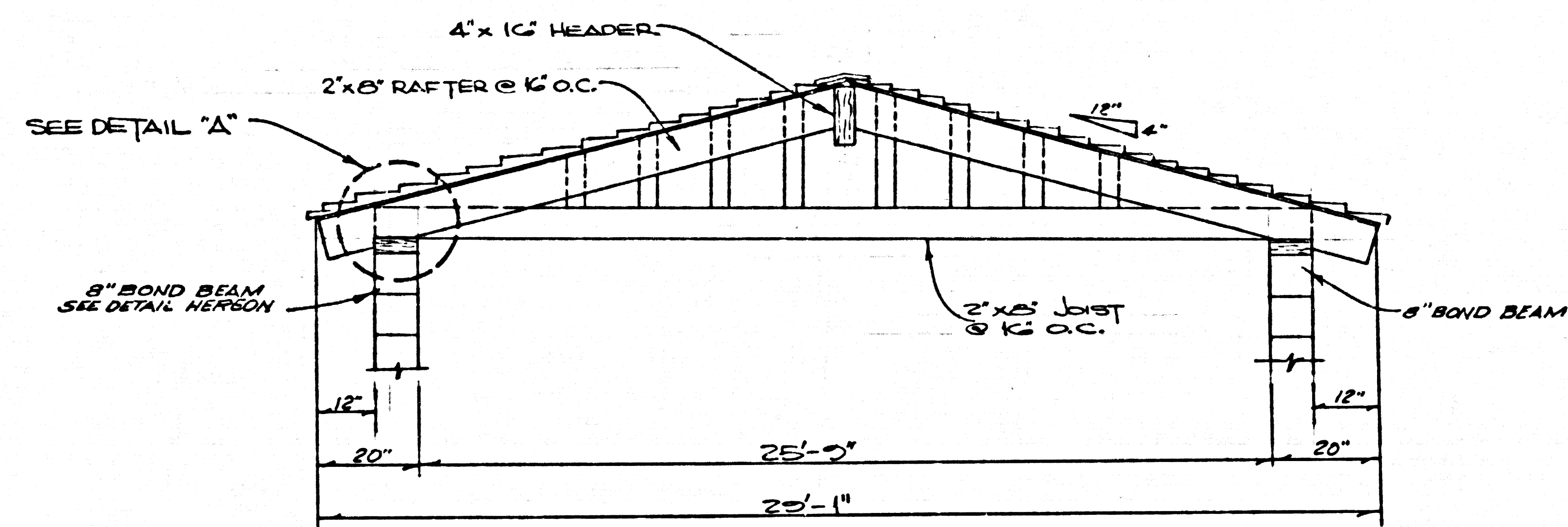
TRACT NO. 42557
P.C. 10002-A SEWAGE PUMP STATION

CONTROL BUILDING PLAN

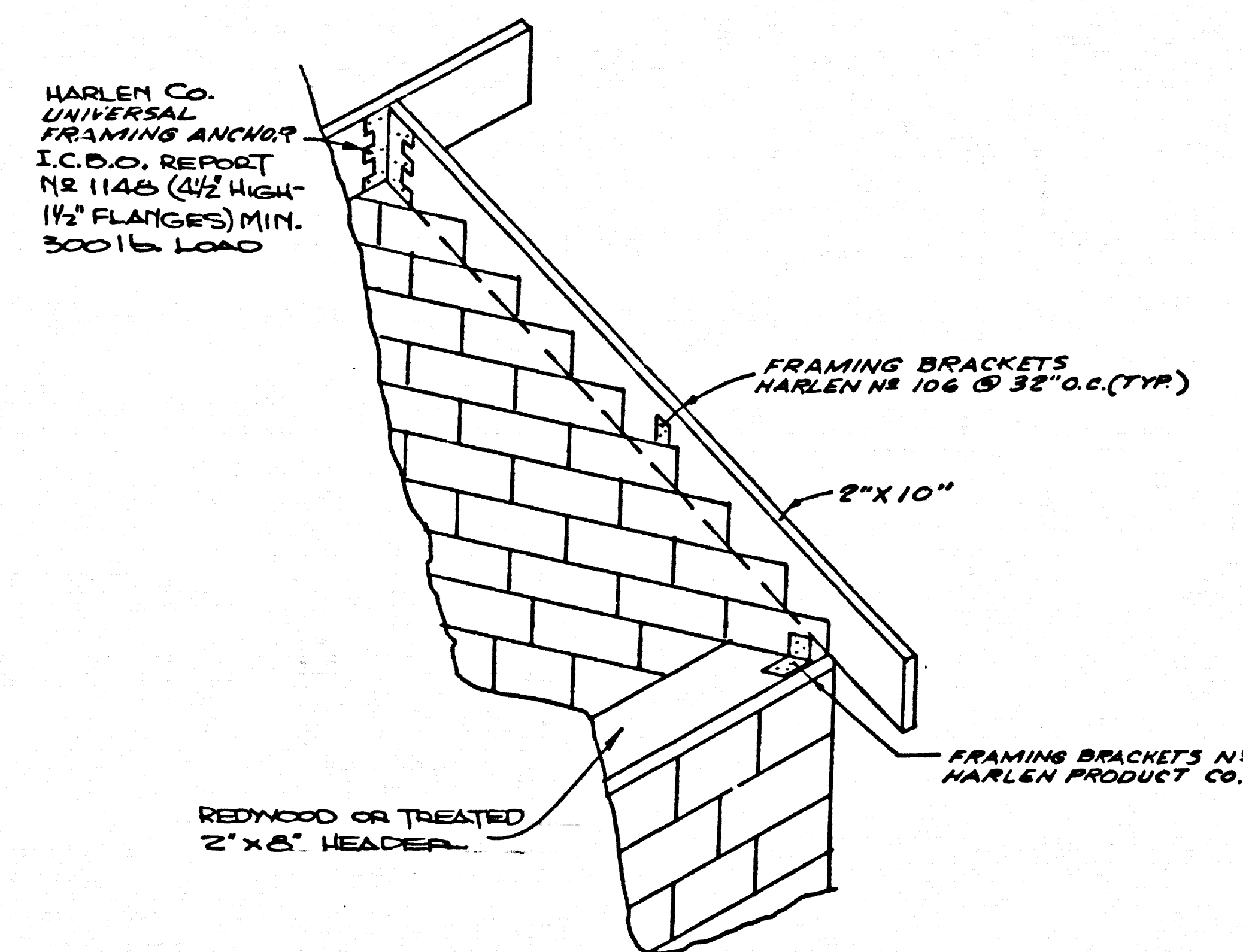
ENVIRONMENTAL DEVELOPMENT DIVISION

PREPARED IN THE OFFICE OF:
LIND & HILLERUD, INC.
2026 HUNTINGTON DRIVE
SAN MARINO, CA 91088
WESLEY S. LIND R.C.E. 16362 DATE 6/1/82

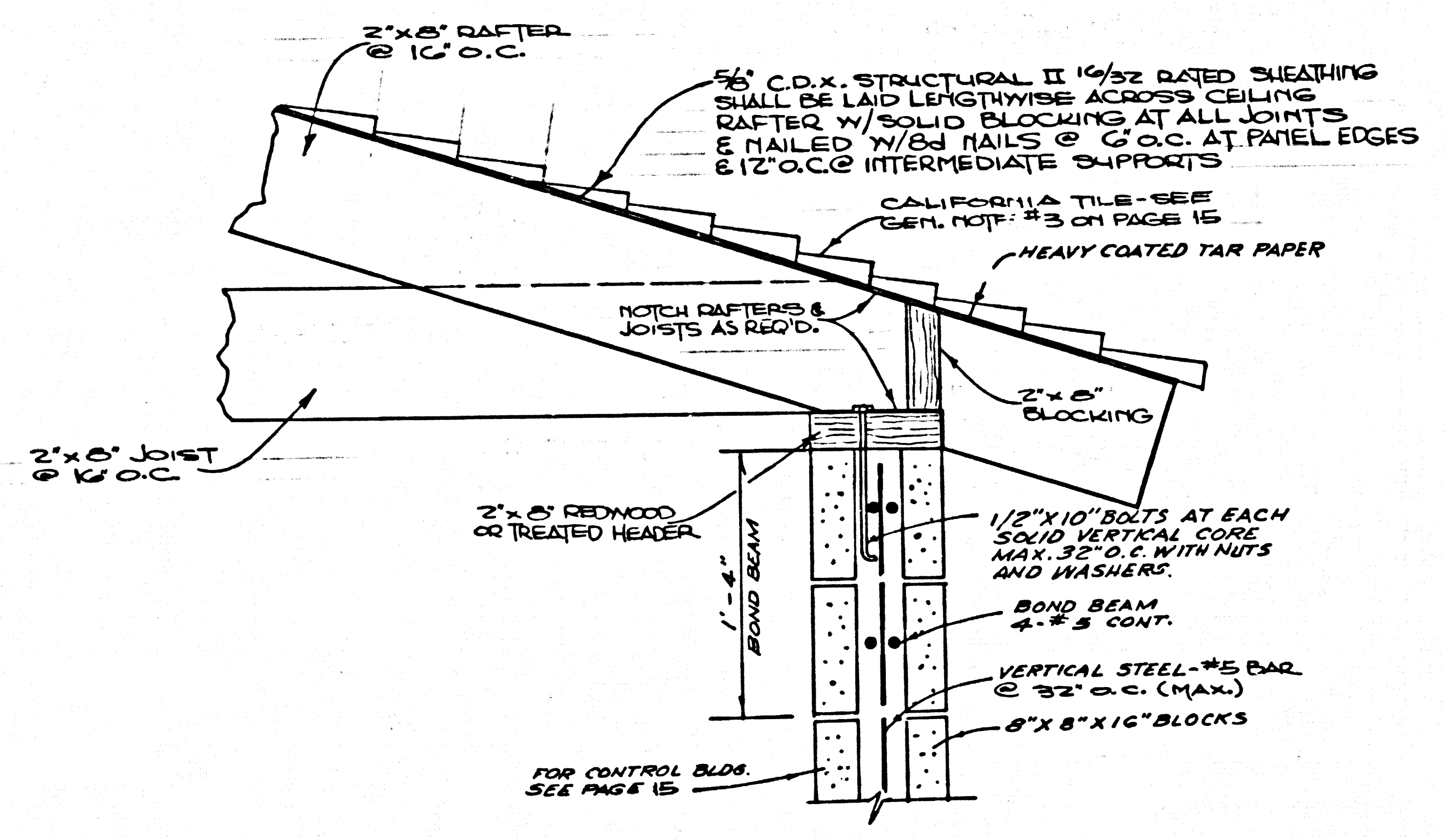
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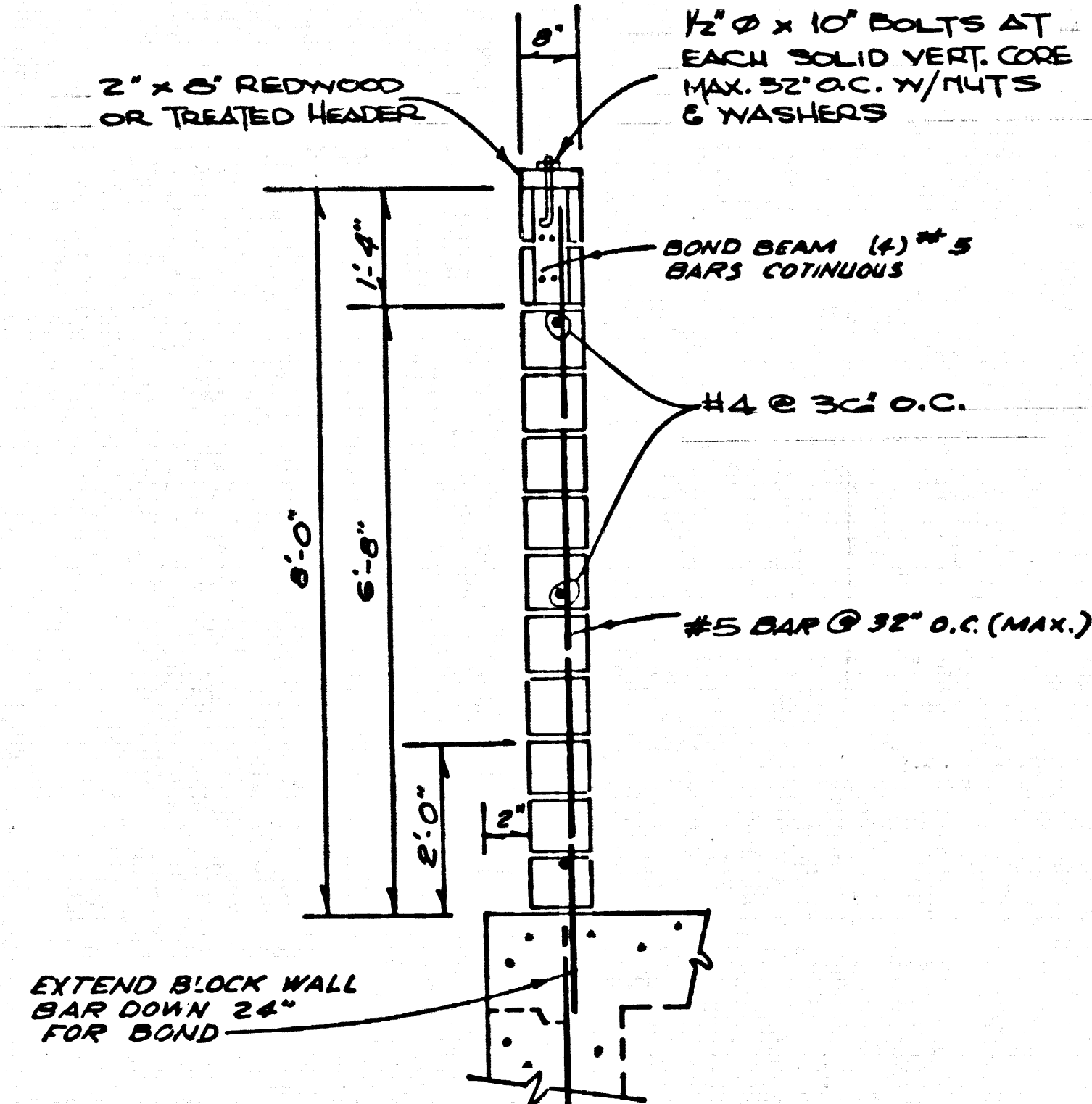
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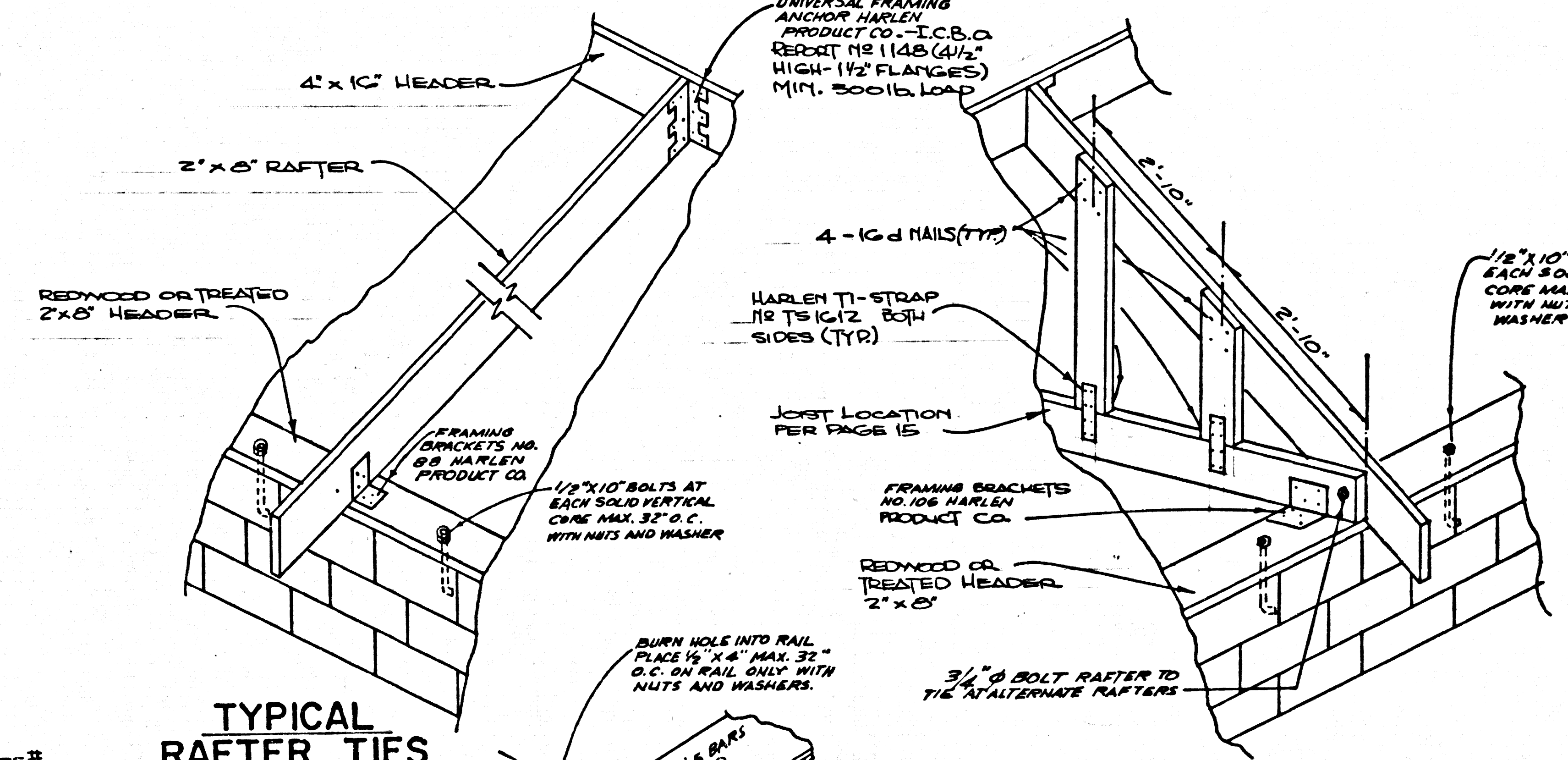
END ANCHOR FRAME DETAIL
NOT TO SCALE



DETAIL A
NOT TO SCALE

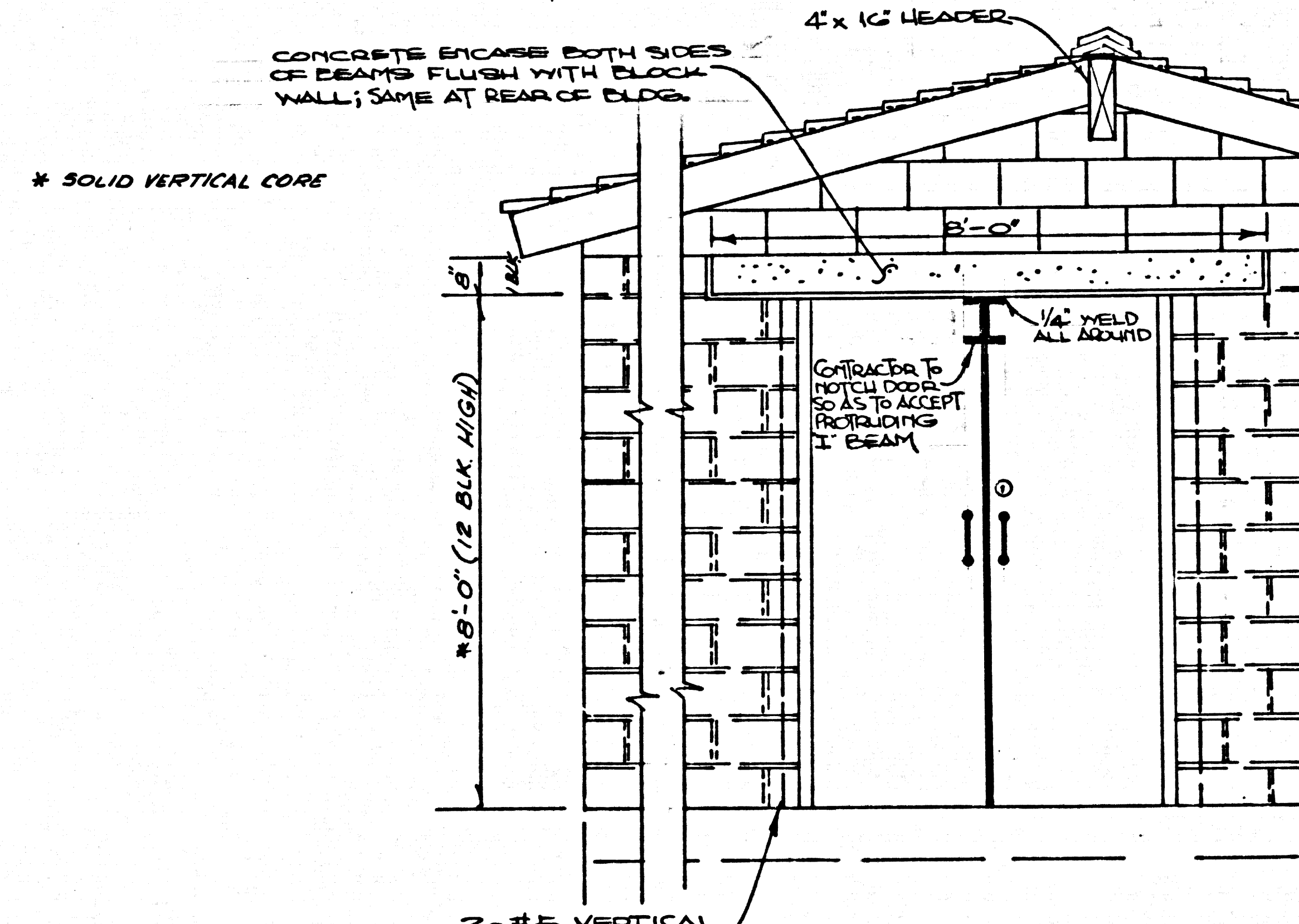


TYPICAL WALL SECTION
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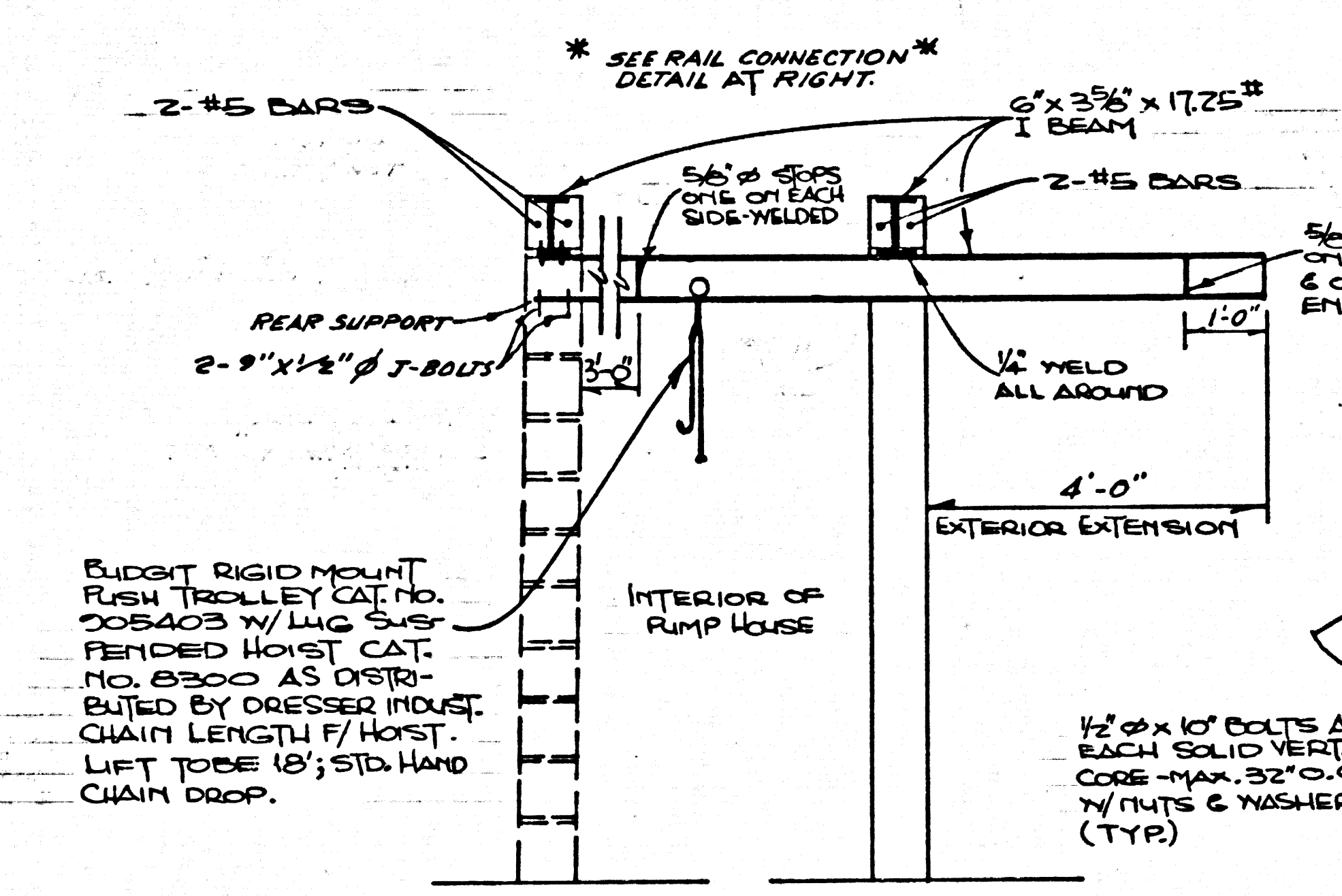


TYPICAL RAFTER TIES
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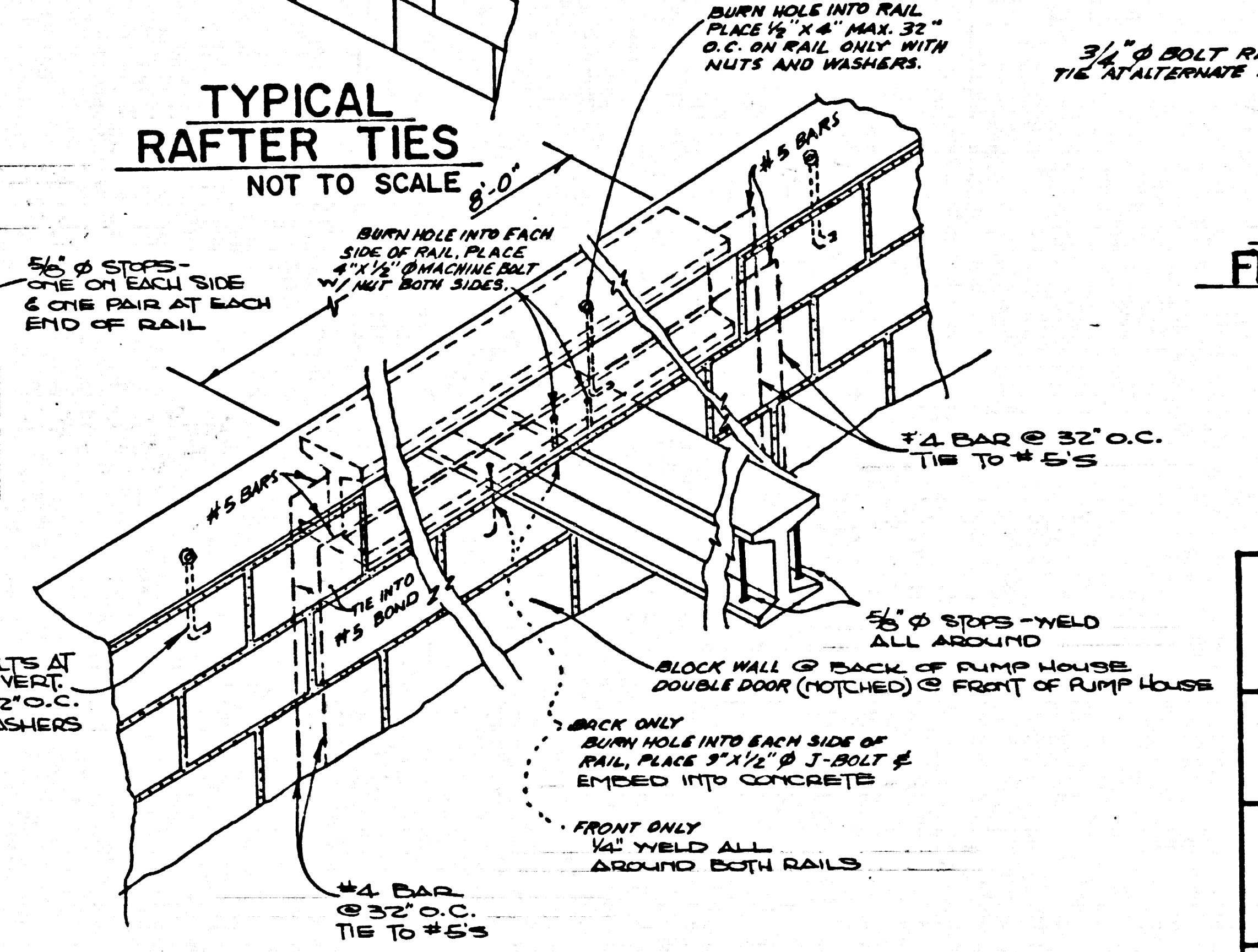
GABLE WALL FRAMING DETAIL
NOT TO SCALE



CRANE RAIL FRONT ELEVATION
NOT TO SCALE



CRANE RAIL SIDE ELEVATION
NOT TO SCALE



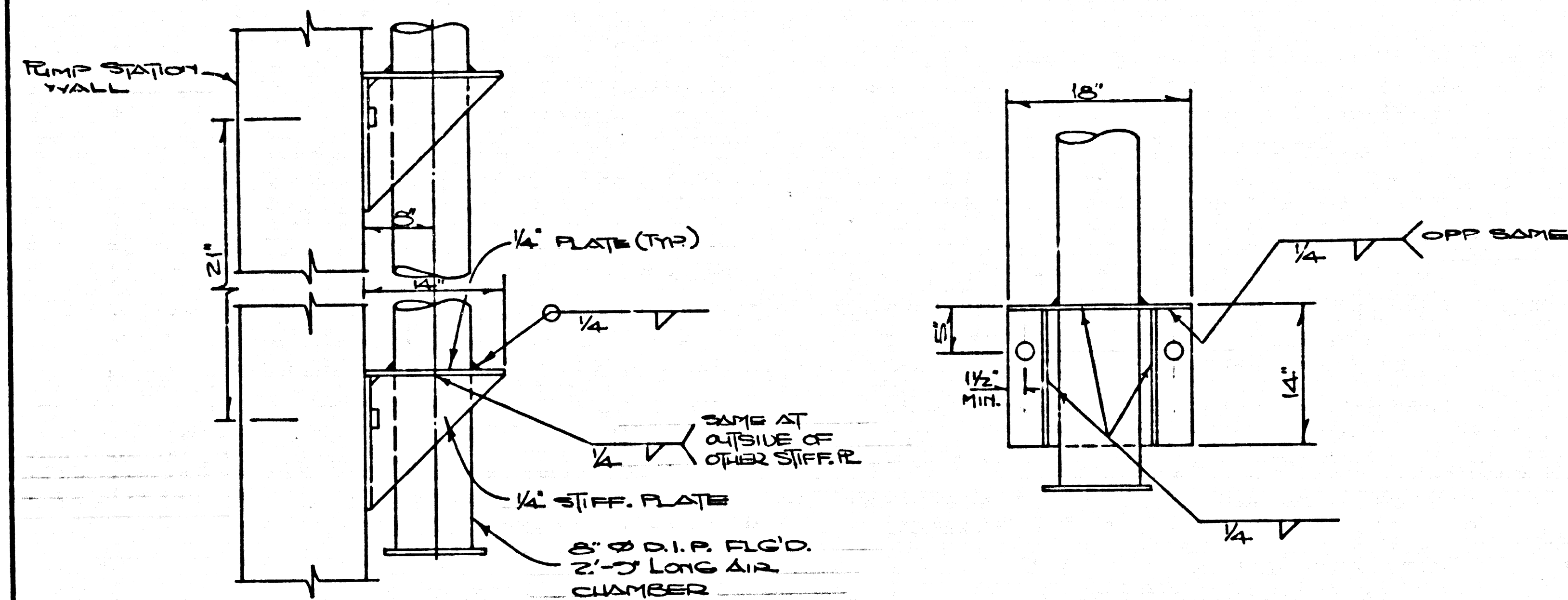
RAIL CONNECTION DETAIL
NOT TO SCALE

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2025 HUNTINGTON DRIVE
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W. R. Lind
WESLEY R. LIND, P.E., 12302 DATE 6-17-92

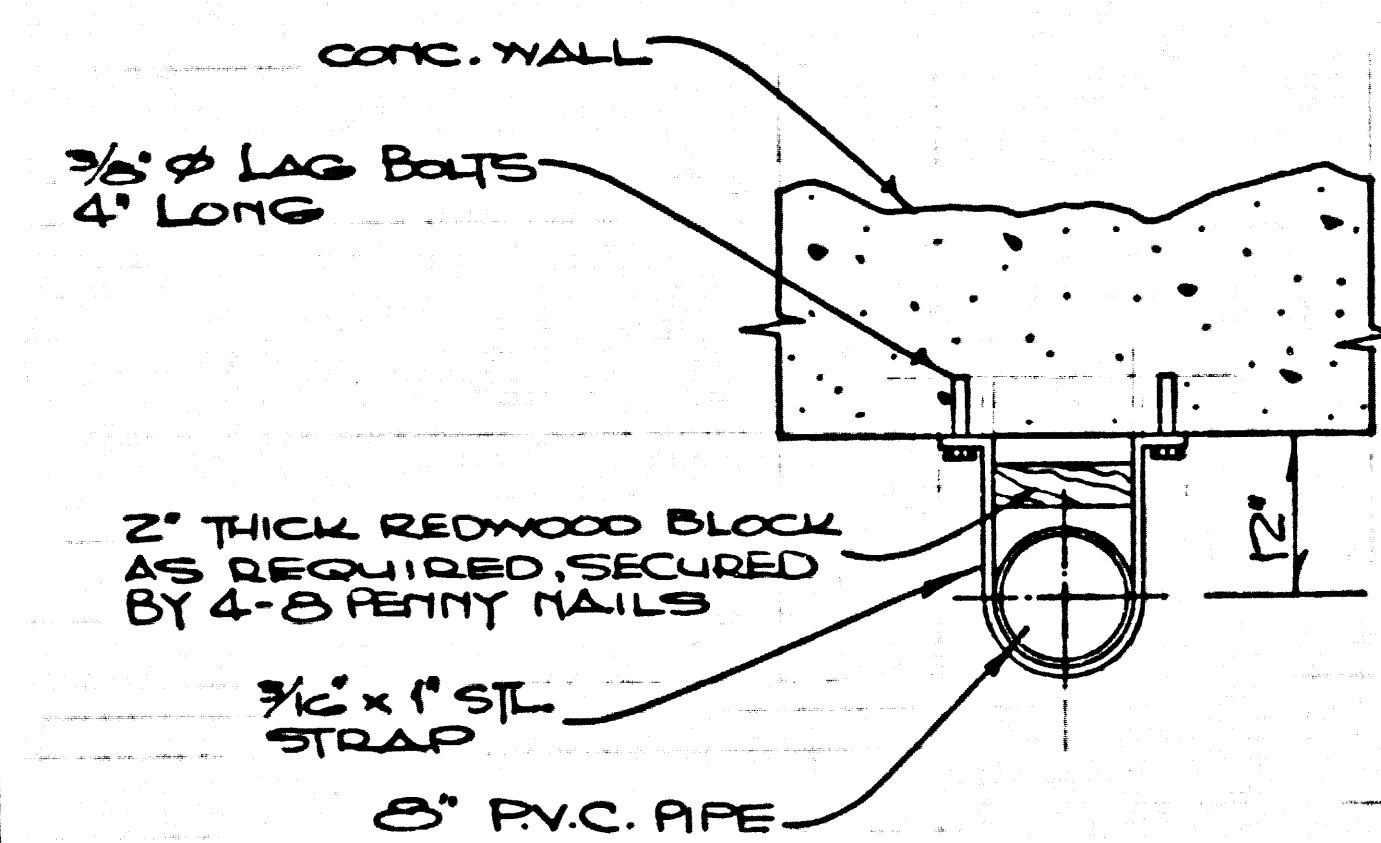
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STEPHEN J. KOONCE COUNTY ENGINEER

TRACT NO. 42557
R.C. 10002-A SEWAGE PUMP STATION

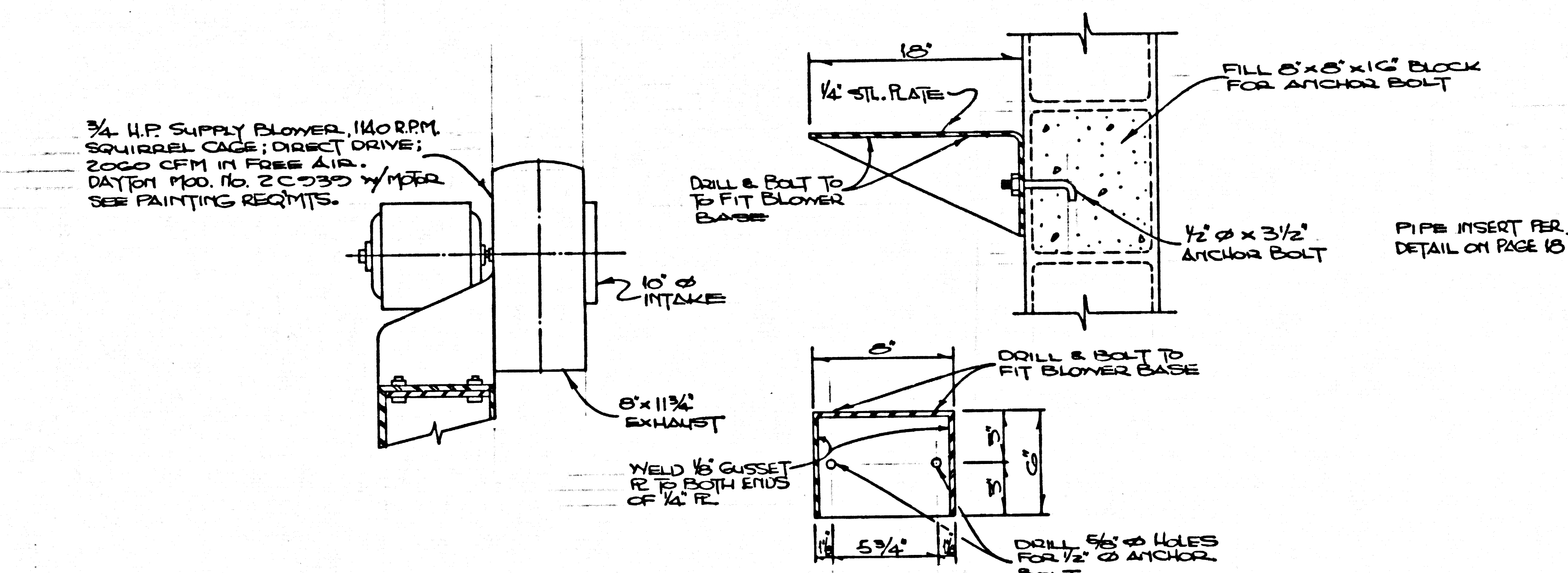
CONTROL BUILDING DETAILS
ENVIRONMENTAL DEVELOPMENT DIVISION



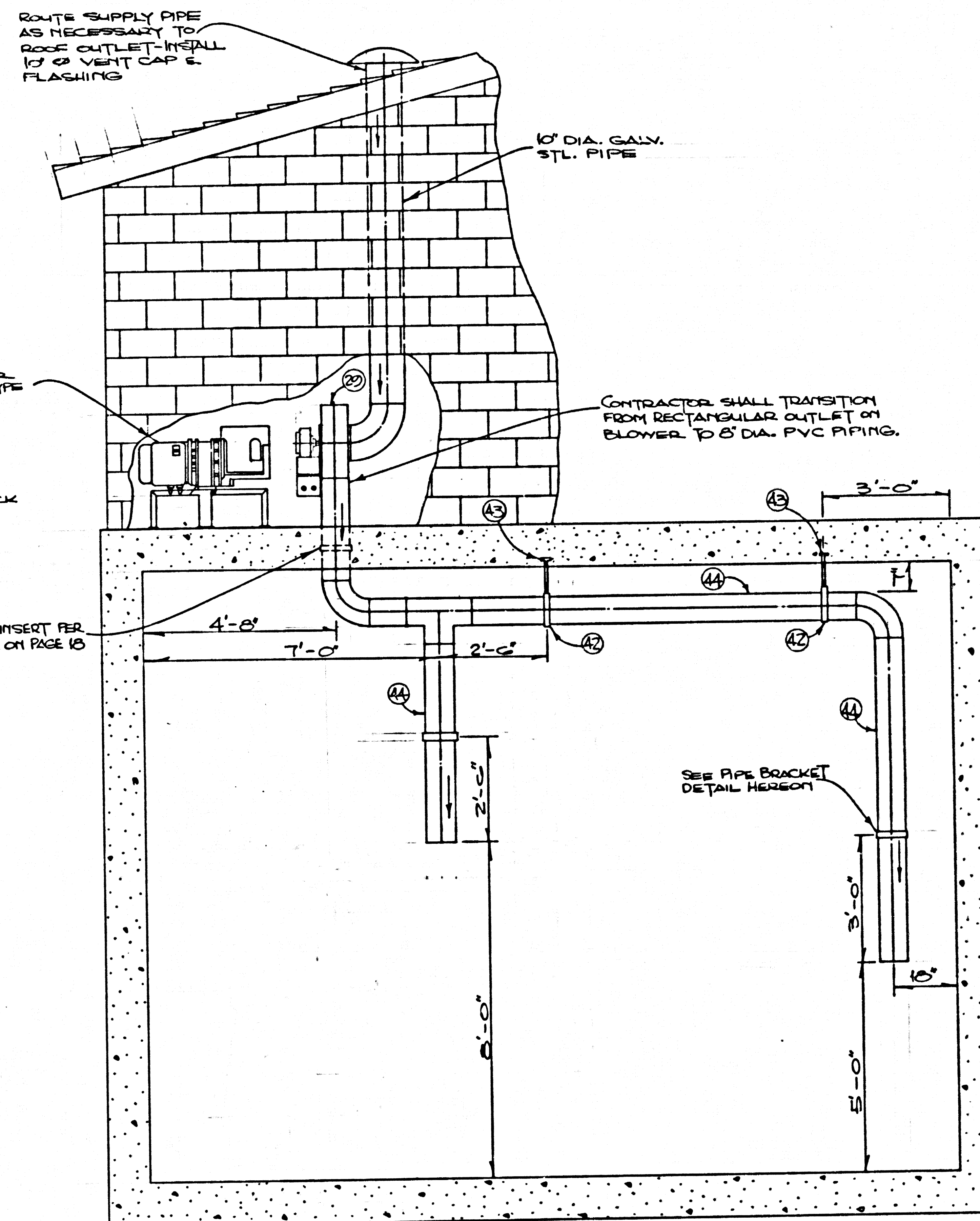
SUPPORT FOR AIR CHAMBER
NO SCALE



PIPE BRACKET
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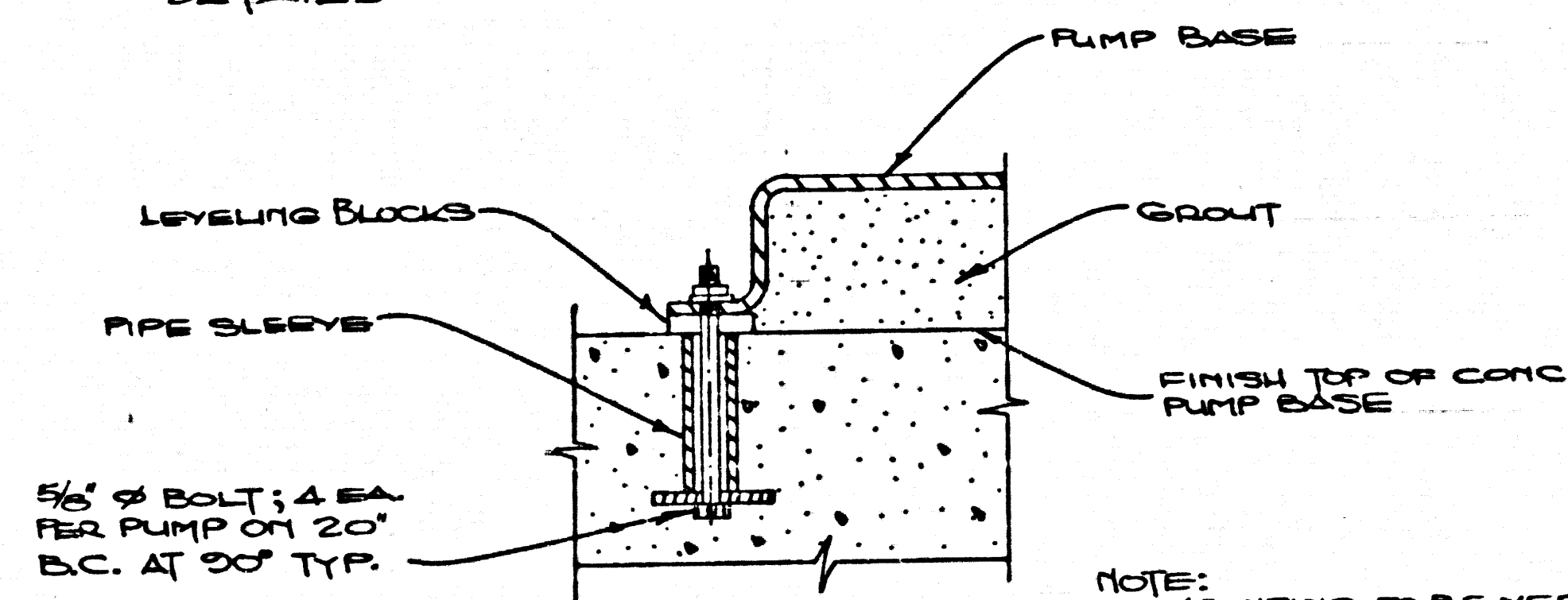


BLOWER AND SHELF BRACKET DETAILS
NO SCALE



VENTILATION SYSTEM
NOT TO SCALE

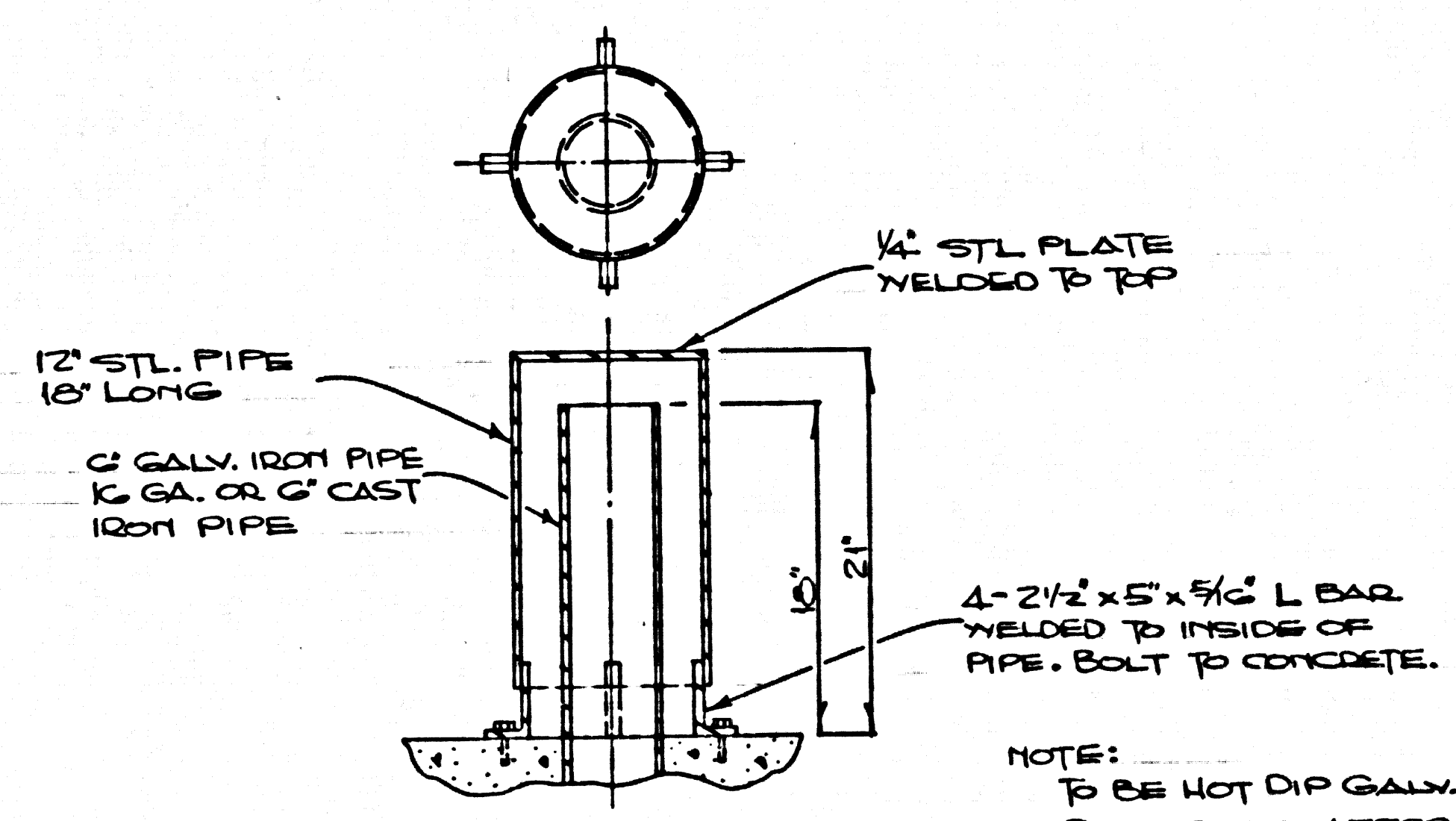
NOTE:
PUMP BASE ANCHOR WASHER,
BOLTS & NUTS SHALL BE 316
SS FOR VENT SYSTEM & MISC.
DETAILS



PUMP ANCHOR DETAIL
NO SCALE

NOTE:
MOUNTING TO BE VERIFIED
BY MFG. RECOMMENDATIONS

20" BOLT CIRCLE
4-3/4" HOLES
ON 24" BASE O.D.



WET WELL VENT COVER
NO SCALE

NOTE:
TO BE HOT DIP GALV.
PER SPECS. AFTER
FABRICATION

50956

COUNTY OF LOS ANGELES, CALIFORNIA
STEPHEN J. KOONCE
COUNTY ENGINEER

TRACT NO. 42557
P.C. 10002-A
SEWAGE PUMP STATION

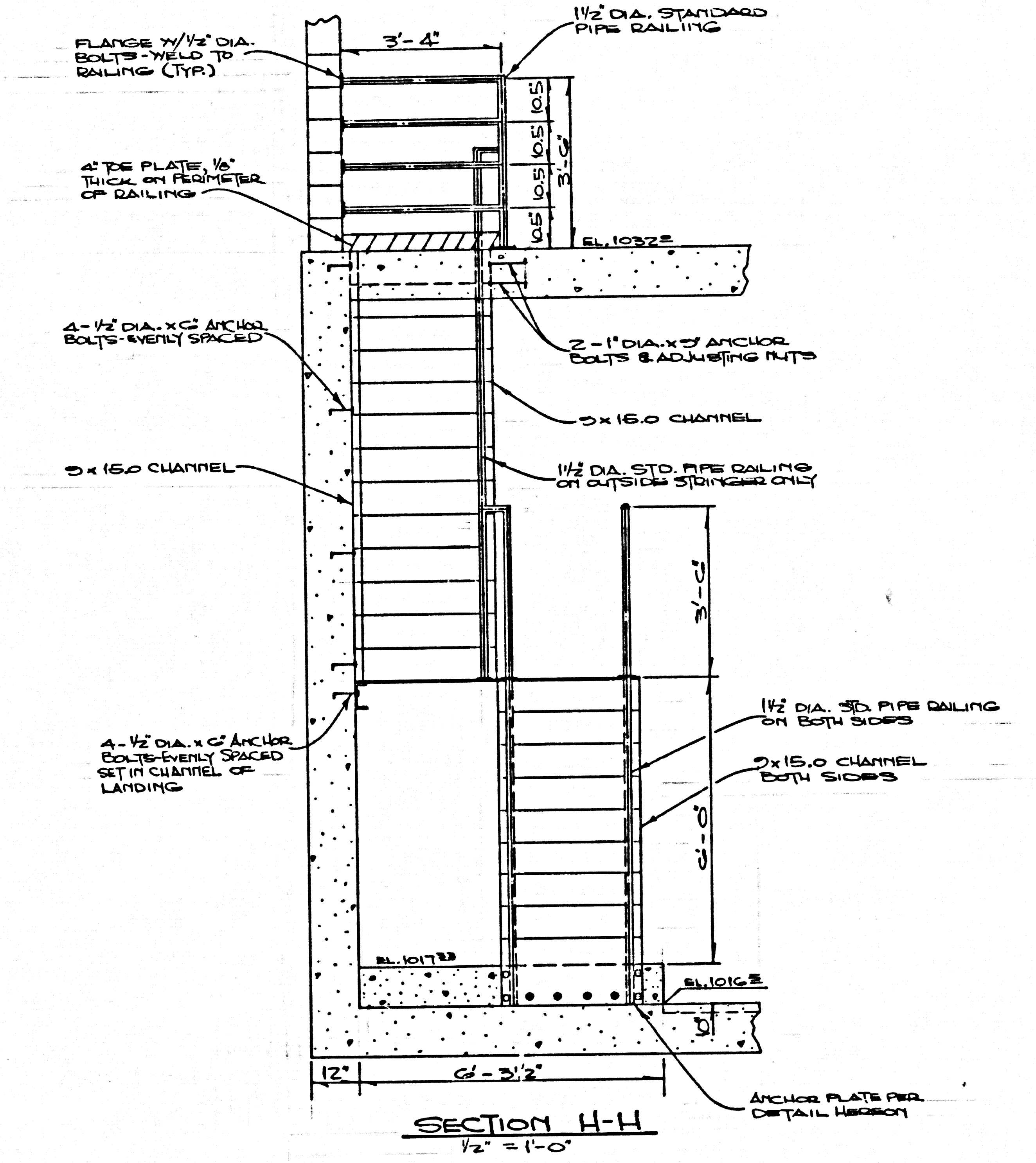
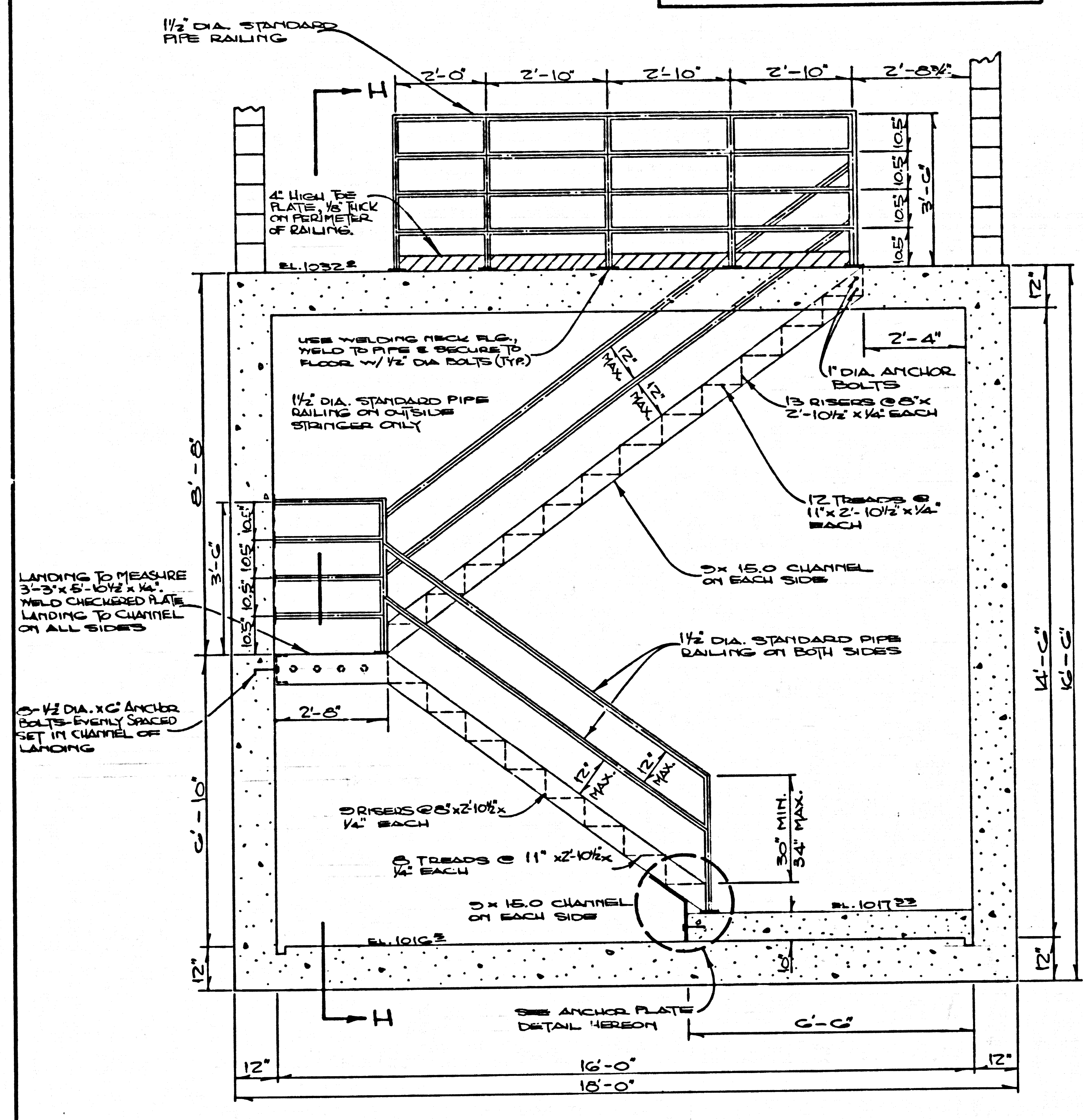
VENTILATION SYSTEM AND
MISCELLANEOUS DETAILS
ENVIRONMENTAL DEVELOPMENT DIVISION

SCALE: AS SHOWN DATE: 11/81 PAGE 17 OF 21 PAGES

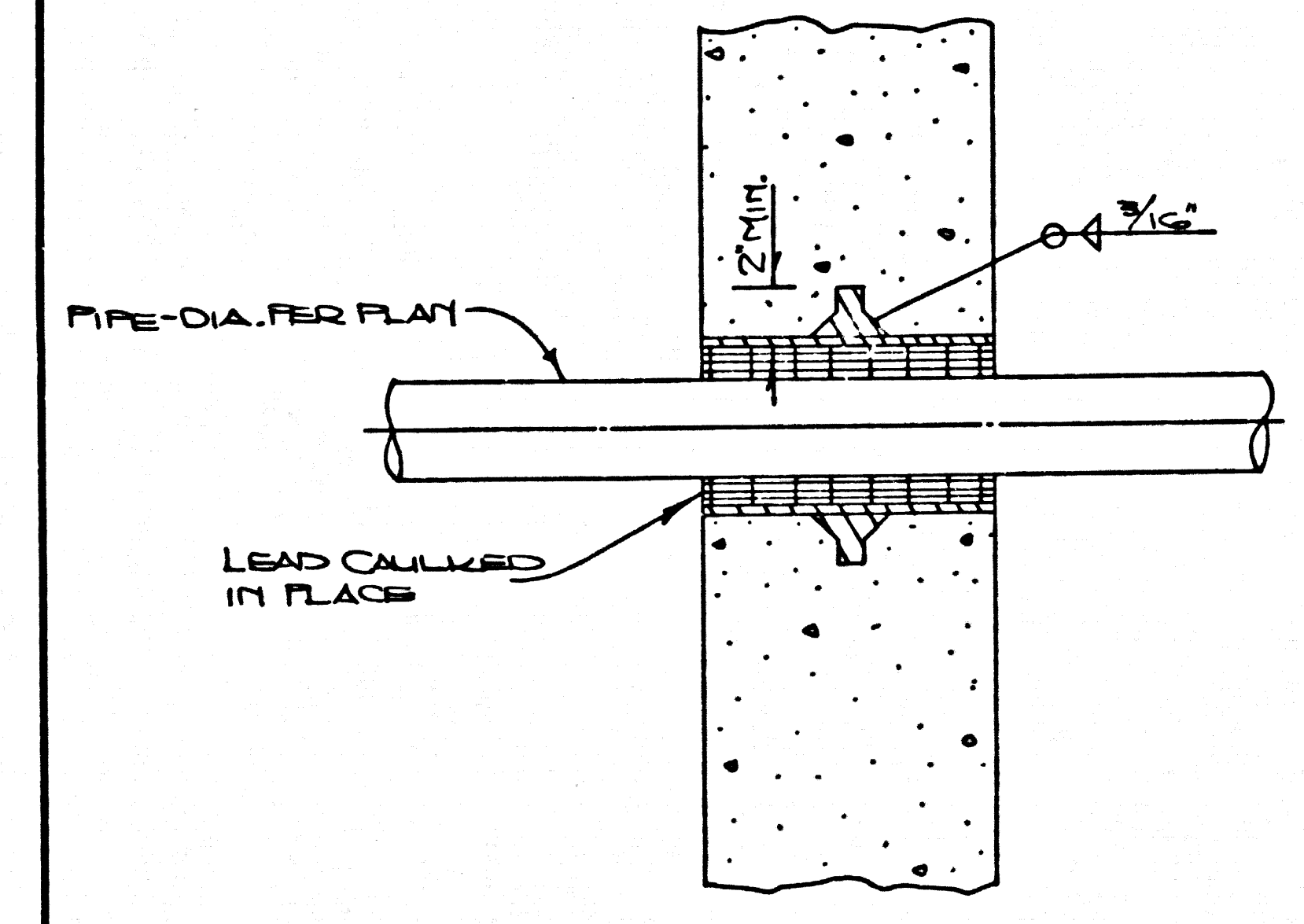
50957

- 1 STAIRWAY RAILING TO BE FABRICATED FROM 1/2" DIAMETER STANDARD PIPE.
- 2 RAILINGS & STAIRWAY TO BE HOT DIPPED GALVANIZED AFTER FABRICATION AS PER ASTM-A123.
- 3 STEPS SHALL HAVE DIAMOND (CHECKERED) TREAD OR EQUIVALENT SKID RESISTANT SURFACE WITH ABRASIVE NOSING. LANDING PLATE TO REFLECT SAME.
- 4 STAIRWAY & RAILING CONSTRUCTION & DIMENSIONING TO BE FIELD VERIFIED PRIOR TO FABRICATION.

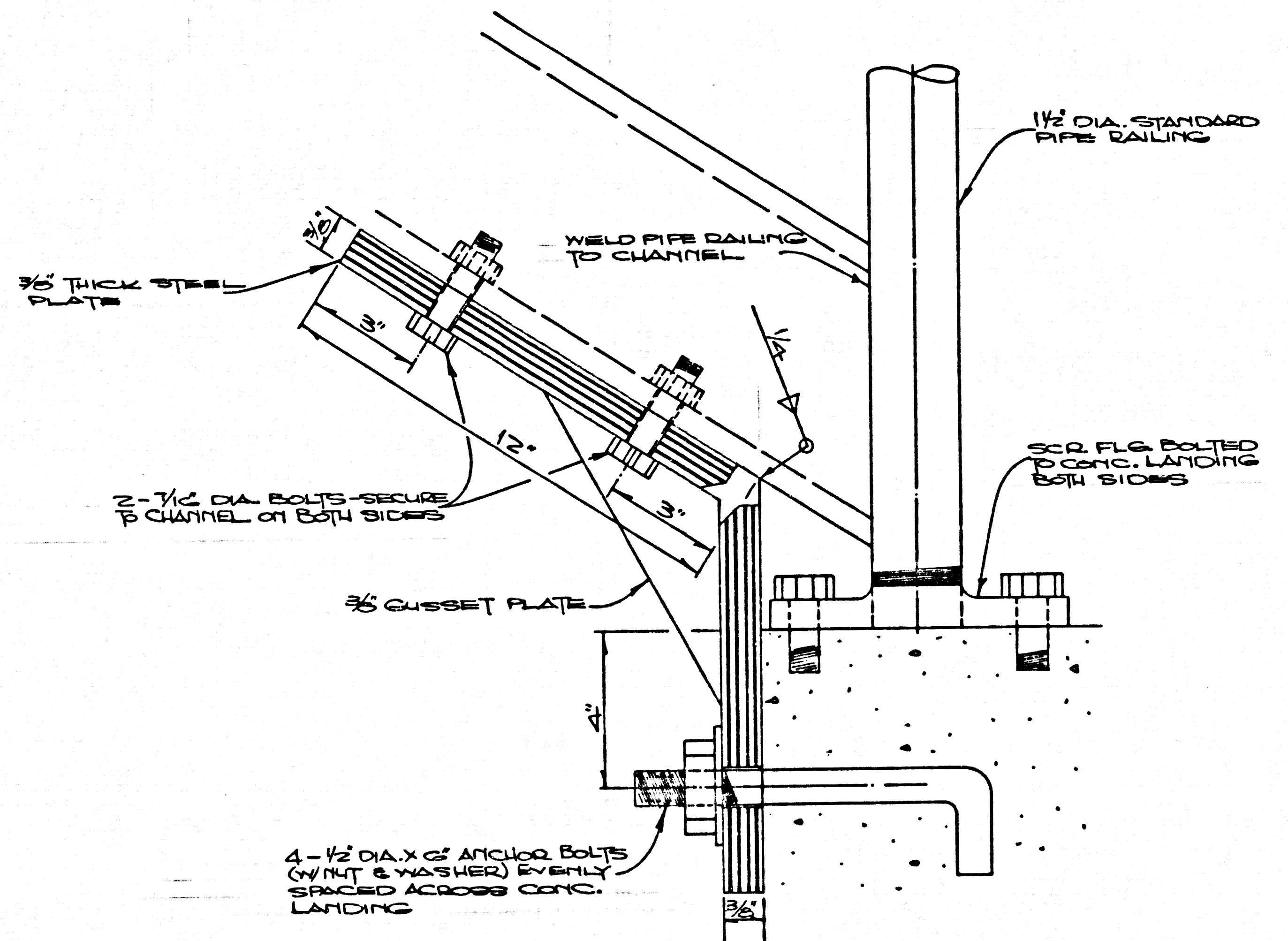
WELD CHECKERED PLATE TREAD WITH ABRASIVE NOSING TO RISER WITH 1/2" X 1/2" ANGLE, WELD ASSEMBLY TO CHANNEL.



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

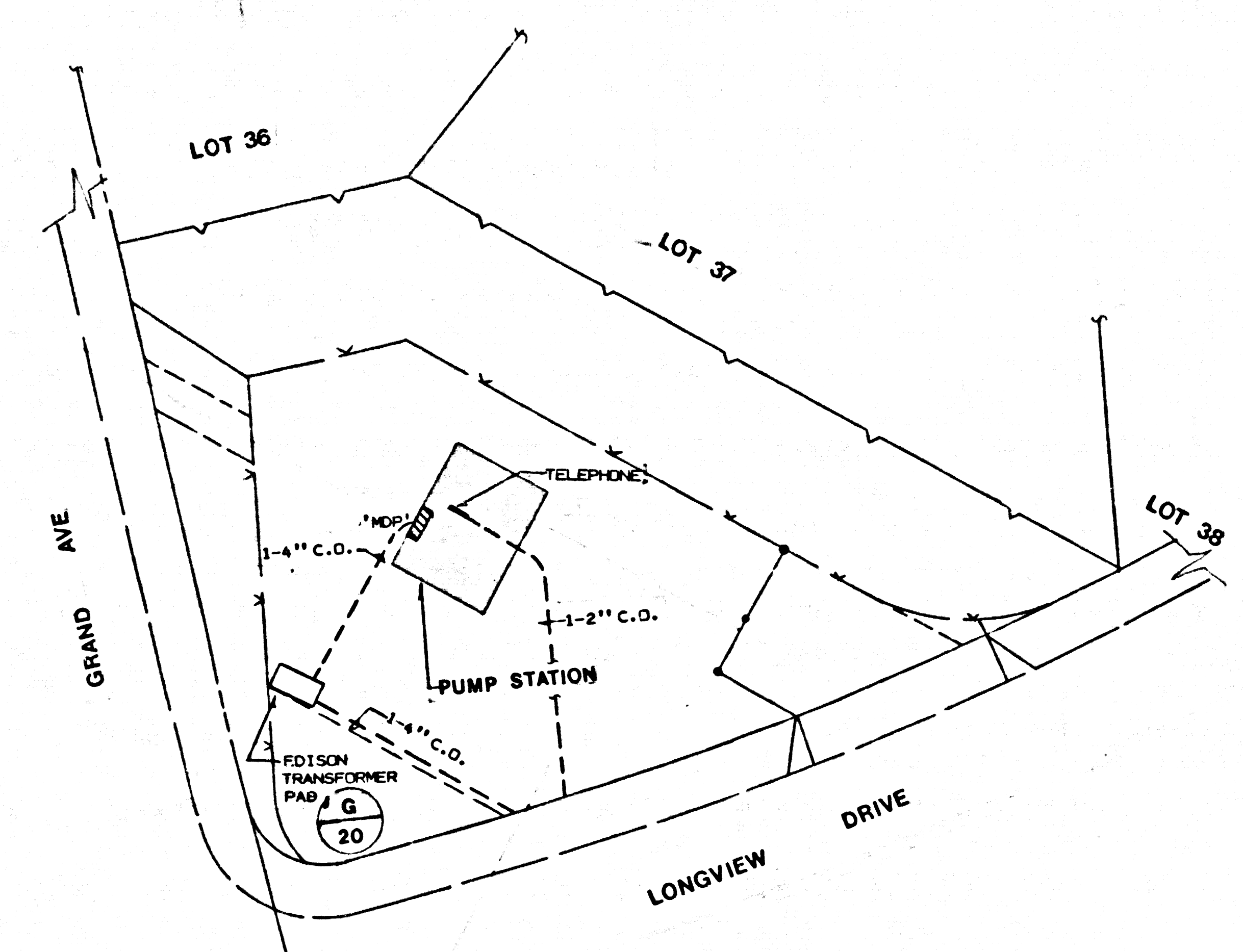


PIPE INSERT DETAIL
NO SCALE

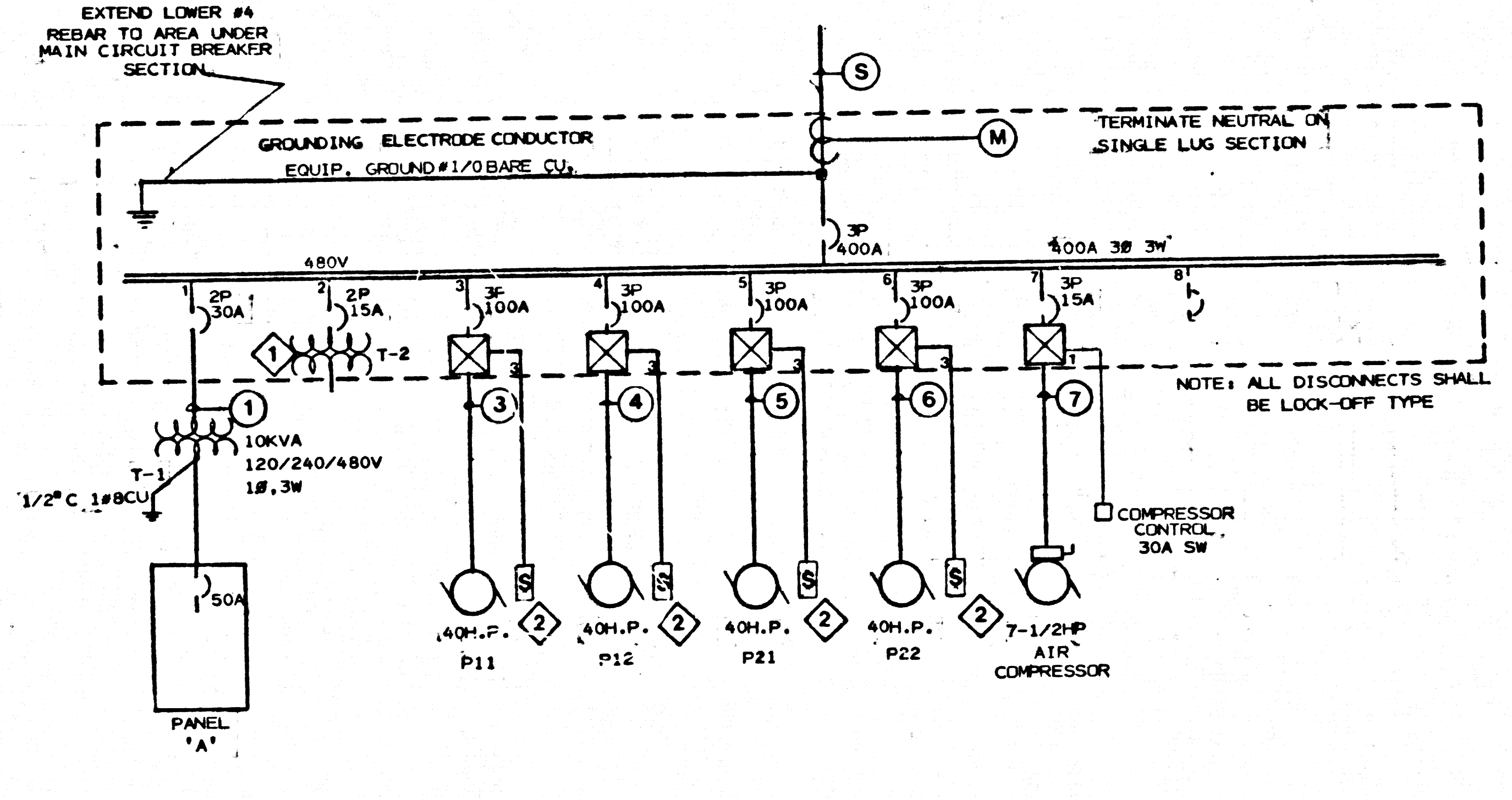


STAIRWAY ANCHOR PLATE
NO SCALE

COUNTY OF LOS ANGELES, CALIFORNIA		
STEPHEN J. KOONCE		COUNTY ENGINEER
TRACT NO. 42557		
P.C. 10002-A SEWAGE PUMP STATION		
STAIRWAY DETAILS		
ENVIRONMENTAL DEVELOPMENT DIVISION		
SCALE: AS SHOWN	DATE: 11/81	PAGE 18 OF 21 PAGES



SITE PLAN
SCALE: 1" = 30'



SINGLE LINE DIAGRAM
N.T.S.

1 CONTROL POWER TRANSFORMER 3KVA 120V 1Ø
LOCATE IN PUMP CONTROL SECTION

2 SEE PUMP CONTROL DRAWING, DETAIL F/22 AND
PHYSICAL ARRANGEMENT ON DETAIL G/22.

FIXTURE LIST										
SIZE WATTS	NO	LAMP TYPE	VOLTS	MOUNTING	DESCRIPTION					
					MANUFACTURER	CATALOG NO	REMARKS			
A	2	F40 C/W			PRUDENTIAL	P-102-48-RS	STRIPLIGHT			
U	1	50W A-19 INC			LEVITON	9875-2	KEYLESS SOCKET			
C	1	100W A-19 INC			APPLETON	JB205				
200										
D	1	35W H.P.S.			KENALL	HAWKEYE-5100-9151	SECURITY LIGHT BASE UNIT WITH HOOD WITH PHOTO CELL			

FEEDER SCHEDULE									
NO	FROM	TO	CONDUIT	VOLTS	AMPS	WIRE		LENGTH	A+B
5	UTILITY	MCC	3/4" C.D.						
1	MCC #1	T-1	3/4"	480V	11	2	#10	20'	
1A	T-1	PANEL A	1"	120/240	29	3	#6	5'	
2					5.2				
3	MCC	PUMP P-11	1-1/4"	480	57	3	#8	20'	
4	MCC	PUMP P-12	1-1/4"	480	57	3	#8	20'	
5	MCC	PUMP P-21	1-1/4"	480	57	3	#8	26'	
6	MCC	PUMP P-22	1-1/4"	480	57	3	#8	26'	
7	MCC	COMPRESSOR	1" C	480V	5	3	#12	30'	

TRANSFORMER SCHEDULE									
NO	TYPE	INSULATION	PRIMARY	SECONDARY	KVA	CONDUIT		WIRING	
T-1	DRY	H	480V	120/240	10	1/2"	#8	WALL-MOUNTED	
T-2	DRY	H	480V	120	3		#12	INTERNAL MCC	
T-3	DRY	H	120	24V	0.1		#14	INSTRUMENT TR.	

MOTOR CONTROL CENTER MCC-1 480 VOLTS 3Ø PHASE 4 WIRE 400 AMP BUS													
TYPE NEMA 1 FLOOR MT. LOCATION UPPER LEVEL MAIN BREAKER 400													
C	DESCRIPTION	LOAD		BUS SW	STARTERS	SUBCIRCUITS					REMARKS		
		HP	KVA			1	2	3	4	5		6	
1	TRANS. T-1	5	15	2	70	30							
2	CONTROL TRANS. T-2		3	5.2	2	70	15						
3	PUMP P-11	40	46	57	3	100	100	N.R.	3	*			
4	PUMP P-12	40	46	57	3	100	100	N.R.	3	*			
5	PUMP P-21	40	46	57	3	100	100	N.R.	3	*			
6	PUMP P-22	40	46	57	3	100	100	N.R.	3	*			
7	AIR COMPRESSOR	7-1/2	9	11	3	70	15	N.R.	1				
8	SPARE												
9	SPARE												
10													
11													
12													
13													
TOTAL HP		163	198	259	400A*								
TOTAL KVA					10								
MAXIMUM LINE AMPS													
LARGEST MOTOR													
MINIMUM FEEDER RENT		198	262	4.87*	M.A.*								

PANEL "A" 120/240 VOLT 1 PHASE 3 WIRE 50 AMPERE MAIN C.B. 100 AMPERE BUS									
LOCATION UPPER LEVEL - NEMA 1 MOUNTING SURFACE LOAD 4.8 KVA 29 AMPERS									
LINE A	LINE B	LOAD DESCRIPTION	OUTLETS		BUS	OUTLETS		LOAD DESCRIPTION	KVA LOAD
			NO	TYPE		NO	TYPE		
1	2	LIGHTS	10	1	20	1	3	RECEPTABLES	540
3	5	VENT FAN	1	1	20	1	1	RADIO	180
7	9	BLDG. CONTROL PNL	1	1	15	3	1	RECEPTABLE	
11	13	SPARE	1	1	20	1	1	SLUMP. PUMP 1/2 H.P.	1250
15	17	SPACE						SPACE	
19	21	SPACE						SPACE	
LINE TOTALS			3090			1680			
TOTAL KVA			3090			1680			
TOTAL AMP			3390			2055			
TOTAL WIRE			29			18			
TOTAL WIRE LOAD			4.8			2.9			

NOTES: GFI CIRCUIT BREAKER
ALL C.B. POSITION WITH LOCK ON /OFF CLIPS

- GENERAL NOTES:
- ALL WORK SHALL BE INSTALLED TO COMPLY WITH NATIONAL ELECTRICAL CODE OF CURRENT ISSUE AND LOCAL JURISDICTIONAL AMENDMENTS.
 - ALL CONDUCTORS SHOWN ON THIS PLAN ARE COPPER. ALL FEEDER CONDUCTORS AND CONDUCTOR ABOVE CEILING SHALL BE RATED FOR 70°C.
 - CONDUIT SIZES SHOWN ON THIS PLAN ARE BASED UPON CONDUCTORS WITH INSULATIONS RATING OF 70°C. OR AS OTHERWISE MARKED.
 - DO NOT SCALE DRAWINGS. VERIFY ALL OUTLET LOCATIONS BY DIMENSIONS FROM ARCHITECTURAL DRAWINGS.
 - 300V CLASS BRANCH CIRCUIT PROTECTIVE DEVICES SHALL HAVE A MINIMUM INTERRUPTING CAPACITY OF 14,000 AMPERES SYMMETRICAL.
 - 600V CLASS BRANCH CIRCUIT PROTECTIVE DEVICES SHALL HAVE A MINIMUM INTERRUPTING CAPACITY OF 14,000 AMPERES SYMMETRICAL.
 - SYMBOLS SHOWN ON THESE DRAWINGS ARE DEFINED ON THE SYMBOL LIST OR AS ACCEPTED BY THE AMERICAN NATIONAL STANDARD ANSI Y32.2E, LATEST REVISION.
 - ALL BARE FLUORESCENT LAMPS SHALL BE COVERED WITH AN APPROVED TUBE GUARD. BERGEN INDUSTRIES TYPE FG-96 OR EQUIVALENT.
 - ALL BARE FLUORESCENT LAMPS SHALL BE HELD IN PLACE WITH AN APPROVED SAFETY TUBE LOCK. BERGEN INDUSTRIES TYPE FL-40 OR EQUIVALENT.

- SYMBOLS**
- WIRING CONCEALED IN OR ABOVE CEILING
 - WIRING CONCEALED IN OR UNDER FL.
 - EXISTING WIRING
 - HOME RUN TO PANEL BOARD CIRCUITS
 - CONDUIT TURNED UP
 - CONDUIT TURNED DOWN
 - 2-Ø 12, 1/2" (3/4") CONDUIT
 - 3-Ø 12, 1/2" (3/4") CONDUIT
 - 4-Ø 12, 3/4" CONDUIT
 - 5-Ø 12, 3/4" CONDUIT
 - 6-Ø 12, 1" CONDUIT
 - 7-Ø 12, 1" CONDUIT
 - 8-Ø 12, 1" CONDUIT
 - 9-Ø 12, 1-1/4" CONDUIT
 - SPECIAL SYSTEM CONDUIT SIZE AS NOTED, N-SYSTEM TYPE. SEE TABLE BELOW
 - LIGHTING OUTLET WITH FIXTURE AS NOTED
 - FLUORESCENT FIXTURE
 - EXIT SIGN OUTLET WITH FIXTURE AS NOTED
 - FIXTURE TYPE
 - TOTAL NUMBER OF WATTS
 - DUPLEX RECEPTACLE, 120V, 15 AMP + 12" OR AS NOTED
 - SINGLE RECEPTACLE, 120V, 15 AMP + 12" OR AS NOTED
 - DOUBLE DUPLEX RECEPTACLE MOUNT OR + 12" AS NOTED
 - RECEPTACLE
 - RECEPTACLE
 - JUNCTION BOX IJ-BOX1
 - TELEPHONE OUTLET, 1 GANG BOX WITH 1 HOLE COVER
 - CLOCK OUTLET WITH CLOCK TYPE AS INDICATED, +96" OR AS NOTED
 - TELEVISION OUTLET + 12" OR AS NOTED
 - THERMOSTAT + 80" OR AS NOTED
 - TOGGLE SWITCH - SUBSCRIPT INDICATES TYPE OF SWITCH, 84" OR AS NOTED
 - 2-2 POLE P-PILOT LIGHT
 - 3-3 WAY D-DIMMER
 - 4-4 WAY MC-MOMENTARY CONTACT
 - K-KEYED M-MOTOR RATED
 - EQUIPMENT GROUND AS REQUIRED
 - UFER GROUND AS SPECIFIED
 - POWER OR LIGHTING PANEL
 - MAIN DISTRIBUTION PANEL
 - PHOTO ELECTRIC CELL
 - MOTOR OR EXHAUST FAN, AS NOTED
 - MOTOR STARTER, SIZE AS NOTED
 - DISCONNECT SWITCH
 - COMBINATION DISCONNECT SWITCH & MOTOR STARTER
 - STOP-START PUSHBUTTON STATION
 - EQUIPMENT SUPPLIED BY OTHERS. CONNECTION BY ELECTRICAL CONTRACTOR
 - FEEDER NUMBER; N-NUMBER
 - SHEET NOTES; N-NUMBER
 - REVISION; M-NUMBER
 - DETAIL CALLOUT
 - FIRE ALARM PULL STATION, +84"
 - SINGLE FIRE ALARM HORN, +96"
 - DOUBLE FIRE ALARM HORN, +96"
 - BELL LOCATION, +96"
 - PUSHBUTTON, +48"

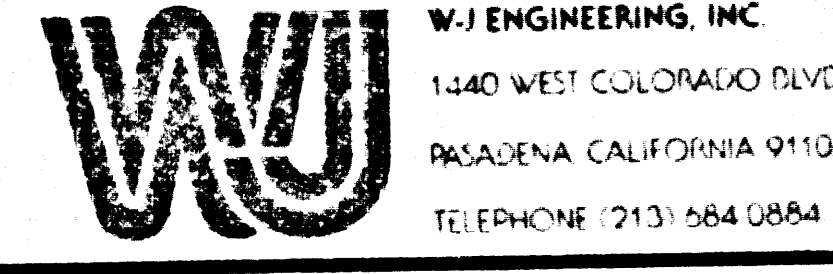
- ABBREVIATIONS:
- WF-WEATHERPROOF
 - WT-WATERTIGHT
 - RT-RAINTIGHT
 - EKO-SAFETY SWITCH
 - E-EMERGENCY POWER
 - C-COMMUNICATIONS
 - M-NURSE
 - TV-TELEVISION
 - F-FUSE
 - DT-DUST TIGHT
 - XP-EXPLOSION PROOF
 - J-JUNCTION
 - CB-CIRCUIT BREAKER
 - TC-TIME CLOCK
 - P-PROGRAM
 - CL-CLOCK
 - F-FIRE ALARM
 - ML-NIGHT LIGHT

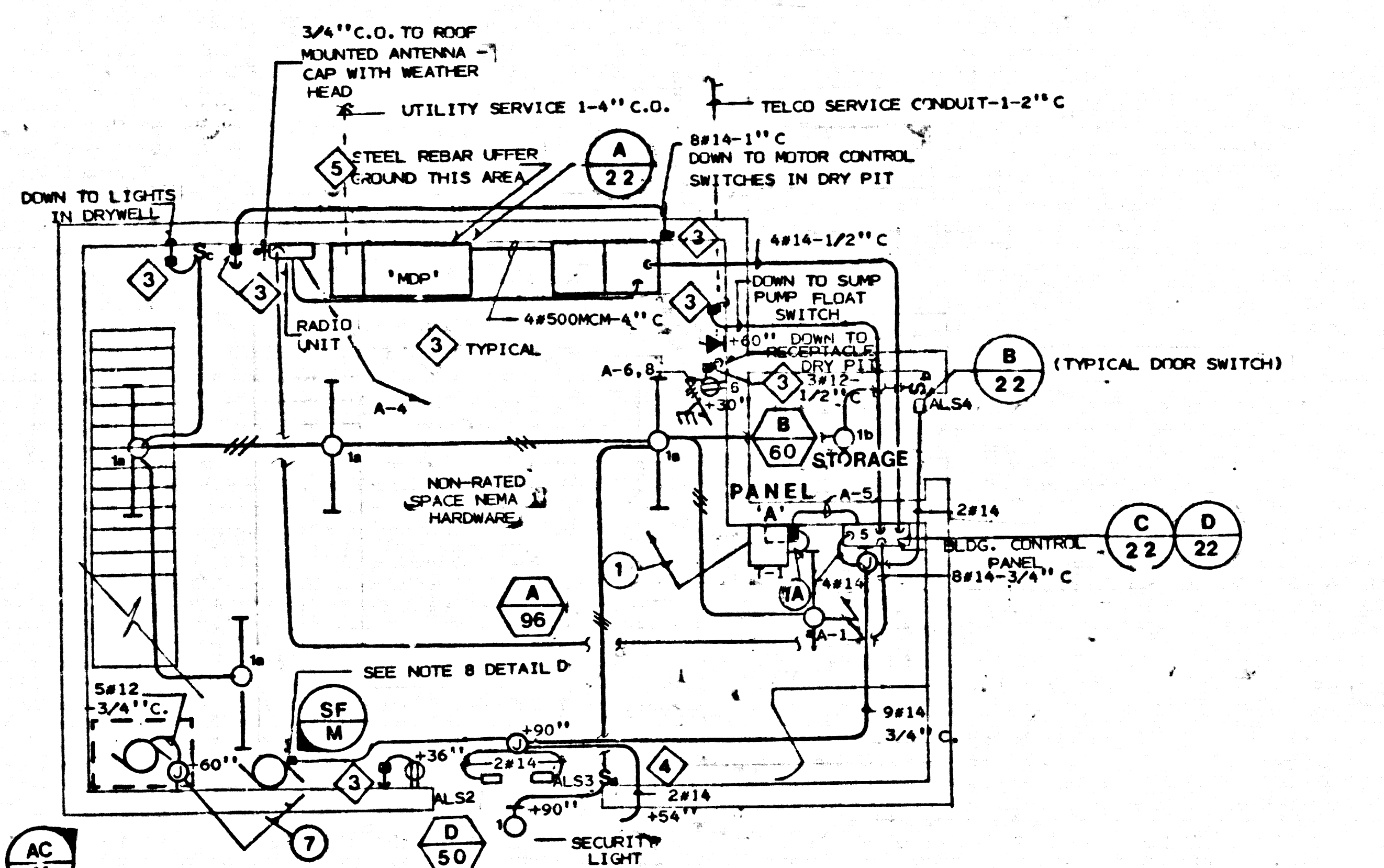
COUNTY OF LOS ANGELES, CALIFORNIA
STEPHEN J. KOONCE COUNTY ENGINEER

TRACT NO. 42557
R.C. 10002-A SEWAGE PUMP STATION

SITE PLAN & SINGLE LINE

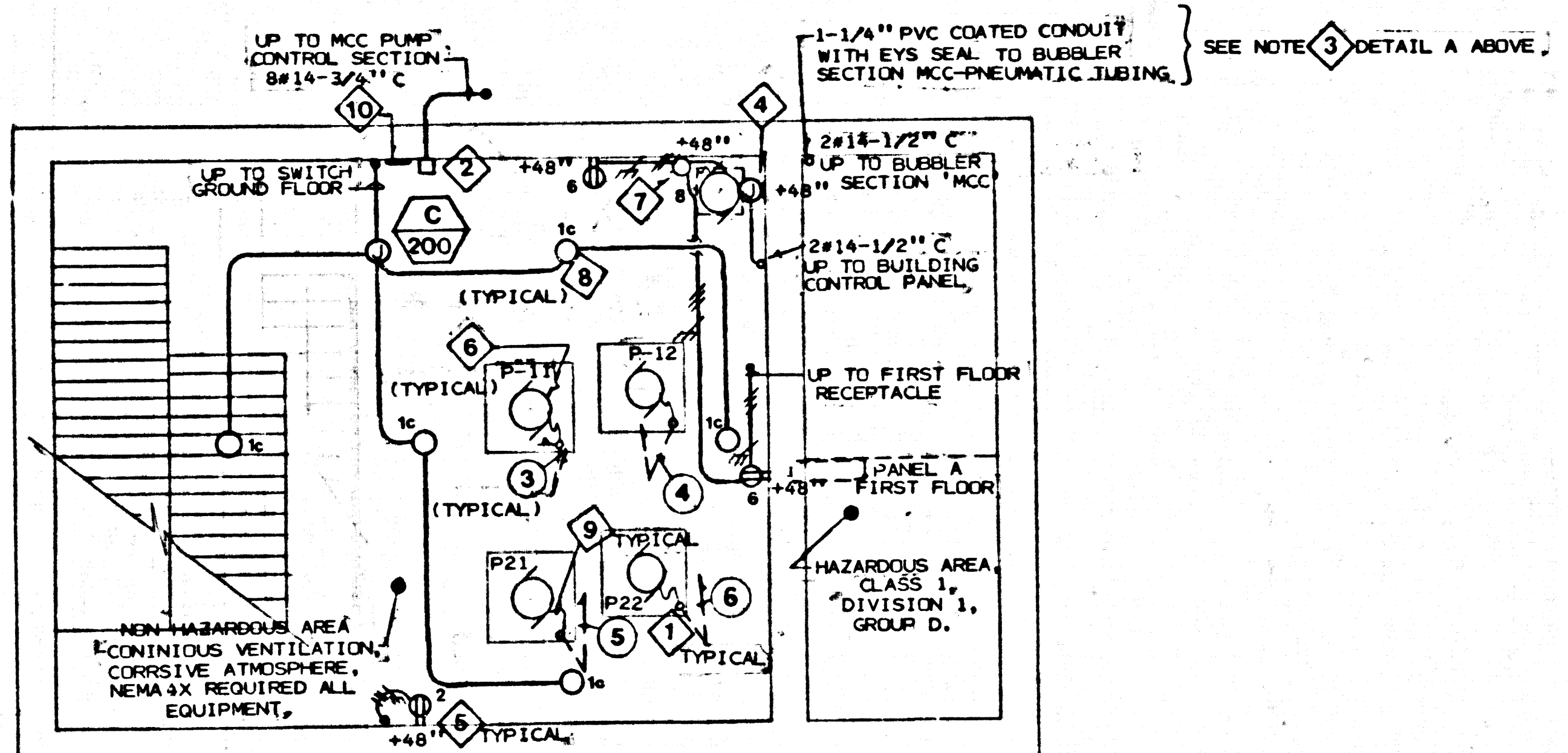
ENVIRONMENTAL DEVELOPMENT DIVISION





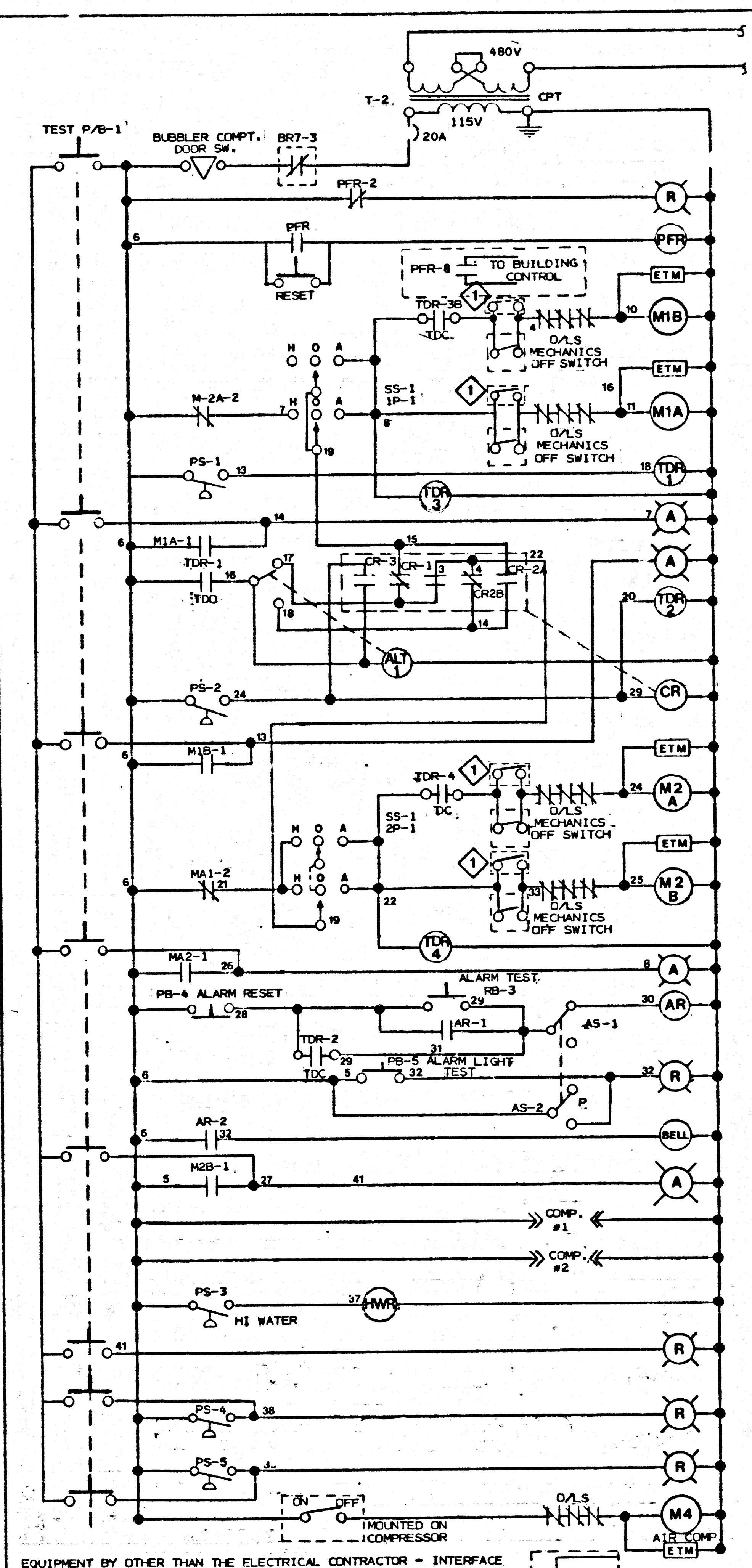
LIGHTING AND POWER PLAN
SCALE: 1/4"=1'-0"

- 1 RECESS IN BLOCK MOUNT AS1 INSIDE TO BARE AGAINST COVER AFFIX SWITCH PLATE WITH ALARM LOCK TO OUTLET USING TAMPER RESISTANT SCREWS.
- 2 OFFER GROUND - MIN. 1/2" DIA. REBAR - MECHANICALLY BONDED TO, AND A PART OF FOUNDATION STEEL. MIN. LENGTH 20" - EXTENDED REBAR UP 4" ABOVE F.F. UNDER "NDP" - PROVIDE SUITABLE GROUND CLAMPS.



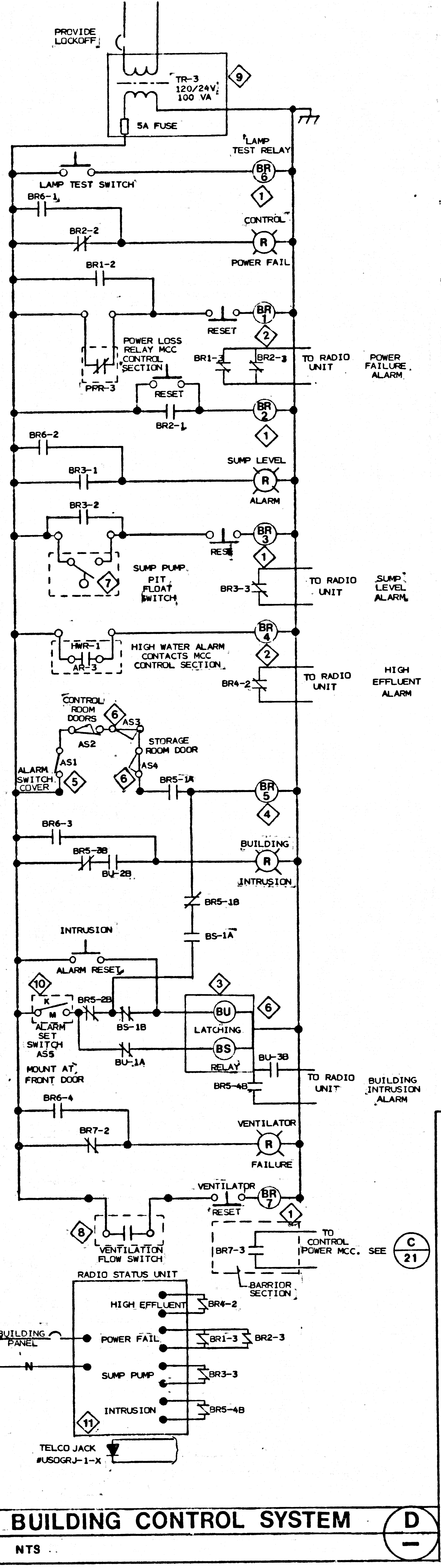
DRY WELL PLAN
SCALE: 1/4"=1'-0"

- 1 TERMINATE FEEDS 3, 4, 5, 6 WITH 1-1/4" EYS SEALED AT BASE OF MCC.
- 2 NEMA 4X ENCLOSURE TYPE NCS04 WITH 4/2 POSITION SWITCHES TYPE NSW11211 AS MANUFACTURED BY THE GROUSE-HINDS CO.
- 3 ALL EXPOSED CONDUITS SHALL BE TYPE 4X RIGID STEEL WITH PVC COATING.
- 4 FD OUTLET HUBBLE TYPE 60CM83 WITH BLANK COVER TYPE 60CMB8 - CORD TO PACO SWITCH CONNECT USING A WOOD HEAD TYPE 512Y SEALING GRIP.
- 5 CORROSION RESISTANT RECEPTACLE IN HUBBLE TYPE 52CM62 WITH 60CM83 TYPE FD BOX WITH 52CM22 LIFT COVER.
- 6 FILL CONNECTION BOX WITH SEALING COMPOUND AFTER ALL ELECTRICAL AND OPERATIONAL TESTS ARE COMPLETED.
- 7 MOUNT CORROSION RESISTANT RECEPTACLE HUBBLE TYPE 52CM61 IN A 60CM83 TYPE FD OUTLET WITH 7ACM23 PLATE. TERMINATE SUMP PUMP POWER CORD WITH A HUBBLE TYPE 52CM66C PLUS EQUIPPED WITH 60CM17 SEAL-TITE COVER.
- 8 APPLY PVC COATING - AS USED TO REPAIR COATING ON NEMA 4X RIGID METALIC CONDUIT, TO ALL EXPOSED METALIC SURFACES.
- 9 LIQUID TIGHT FLEXIBLE CONDUIT AND FITTINGS.
- 10 SIGN SHALL BE ENGRAVED AND PERMANENTLY AFFIXED WITH #8 LAG SCREWS PER DETAIL D/22 ADJACENT TO SAFETY DISCONNECT SWITCHES.



PUMP CONTROL SYSTEM
NTS

- 1 MOUNT A SPST TOGGLE SWITCH IN LOCKABLE METAL ENCLOSURE - TO PROVIDE FOR PUMP PIT SAFETY BY-PASS. THE BY-PASS SWITCHES ARE MADE AVAILABLE IN THE EVENT OF PIT FLOODING.



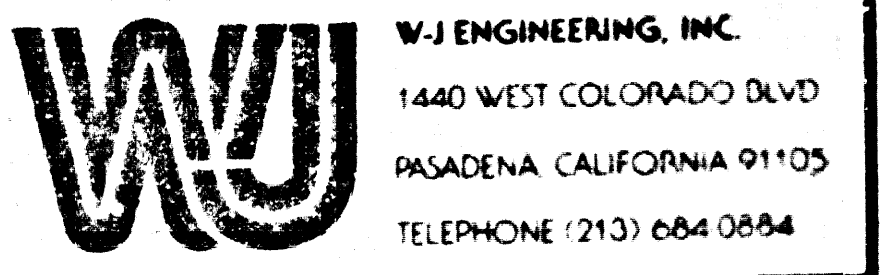
BUILDING CONTROL SYSTEM
NTS

- 1 RELAY - 120V COIL-3 FORM C 5A CONTINUOUS DUTY CONTACT POTTOR BRUNFIELD # KUP-14A 11120 SOCKET P&B 27E121.
- 2 RELAY - 120V COIL 2-FORM C CONTACTS 5A CONTINUOUS DUTY P&B #KUP-11A-11120 SOCKET P&B 27E121.
- 3 RELAY, LATCHING - 120V COIL - 4-FORM C 2 EACH SIDE, RATED 5A P&B #KUB-17A-11120.
- 4 RELAY-120V COIL 4 FORM C CONTACTS 5A CONTINUOUS DUTY P&B #KUP-17A- 51120.
- 5 MICRO SWITCH - 5A 120V RATED CONTACTS P&B A1M68-80-042
- 6 ENCLOSED PRECISION SWITCH-SPST N.O. STRIGHT PLUNGES TYPE #YS3E, AS MANUFACTURED BY THE SQUARE 'D' CO.
- 7 PACO-ROTD FLOAT-10A NON-INDUCTIVE TYPES - SUSPENDED - AS MANUFACTURED BY THE PACIFIC PUMPING COMPANY.
- 8 AIR FLOW SWITCH NO. AF15 AS MANUFACTURED BY THE MC DONNELL AND MILLER CO. DIVISION ITT.
- 9 MACHINE TOOL TRANSFORMER W/FUSE BLOCK ATTACHED, TYPE E03 WITH AP-3 FUSE BLOCK - SPECIAL 120/24V - AS MANUFACTURED BY THE SQUARE 'D' COMPANY
- 10 MEDICO - LOCK CYLINDER DEY WITH UL LISTED SPST SWITCH ASSEMBLY. SUPPLY 16 KEYS TO OWNER.
- 11 RADIO TELEMETRY MONITORING EQUIPMENT FIELD INSTALLED STATUS AND CONTROL UNITS (INTRACT) (MOTOROLA RADIO TELEMETRY MODULE SYSTEM)

THE CONTRACTOR SHALL FURNISH AND INSTALL A WORKING RADIO TELEMETRY SYSTEM INCLUDING THE FOLLOWING:
 1. ONE EACH MOTOROLA MODEL OPN 1013 POWER PAC.
 2. ONE EACH MOTOROLA MODEL 5RL-215-2 YAGI ANTENNA.
 3. ONE EACH MOTOROLA MODEL C-1575 INTRAC MODEL GPF-15 WALL TRANSMITTER, STATUS AND CONTROL UNIT.
 4. ONE EACH TOWERS-060 TRANSMISSION LINE.
 5. THE CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT TO THE INTRAC MODULE SENSOR APPARATUS FOR "LOW WET WELL LEVEL, HIGH WET WELL LEVEL AND CONTROL PANEL INTRUSION ALARM."
 CONTRACTOR IS ADVISED TO CONTACT MS. DEBRA CLAY, MOTOROLA CO. TO CONFIRM PRICES AND INSTALLATION DETAILS. TEL: (213) 536-0700, ADDRESS TO ATTN: MS. DEBRA CLAY, 2333 UTAH AVENUE EL SEGUNDO, CA. 90266

PANEL CONSTRUCTION NOTES:

- 1 ALL FORM C CONTACTS FOR EACH CONTACT N.O. SIDE LABELED "A" N.C. SIDE LABELED "B". WHERE NO LETTER IS INDICATED, USE SECTION CORRESPONDING WITH CONTACT SHOWN.
- 2 CONTACTS FOR LATCHING RELAY SHOWN WITH RELAY LATCH IN RESET POSITION.
- 3 MOUNT COMPONENTS IN NEMA 1 36" X24" X6-5/8" CABINET WITH LOCKING HANDLE AND LUMERED SIDE VENTS TOP AND BOTTOM 6" LONG. MOUNT ALL PUSH BUTTON SWITCHES EXCEPT THE ALARM RESET SWITCH ON THE FRONT DOOR. ALARM RESET SWITCH LABELED "INTRUSION ALARM RESET" ON ENCLOSURE BACK PANEL. MOUNT ALL PILOT LAMPS TO FRONT DOOR. LABEL ALL SWITCHES & PILOT LIGHTS AS SHOWN. 8 KEYS SHALL BE DELIVERED TO THE COUNTY ENGINEERS.
- 4 ALL COMPONENTS SHALL BE U.L. LABELED.
- 5 ALL CONTROL WIRING SHALL BE A MINIMUM OF #16 STRANDED CU. NEATLY BUNDLED USING TIE STRIPS OR PLASTIC WIRE WAYS. ALL INTER COMPONENT WIRING SHALL BE DIRECT TO ADJACENT COMPONENTS OR TO A TERMINAL BLOCK. NO SPLICES OR TERMINATING SHALL BE MADE USING WIRE NOT TYPE CONNECTORS. ALL CONDUCTORS SHALL BE TERMINATED WITH PROPERLY SIZED INSULATED SPADE TYPE TERMINALS.
- 6 ALL CONDUCTORS LEAVING THE PANEL SHALL BE CONNECTED TO CONTROL COMPONENT VIA TERMINAL STRIP. NO CONDUCTOR INTER-PANEL OR WIRES TO REMOTE SWITCHES SHALL BE DIRECTLY CONNECTED TO ANY CONTROL COMPONENTS WITHIN THE PANEL.
- 7 ALL CONTROL CONDUCTORS LEAVING THE PANEL SHALL HAVE AN AMPACITY NO LESS THAN #14 CU. WITH T-44 INSULATION.



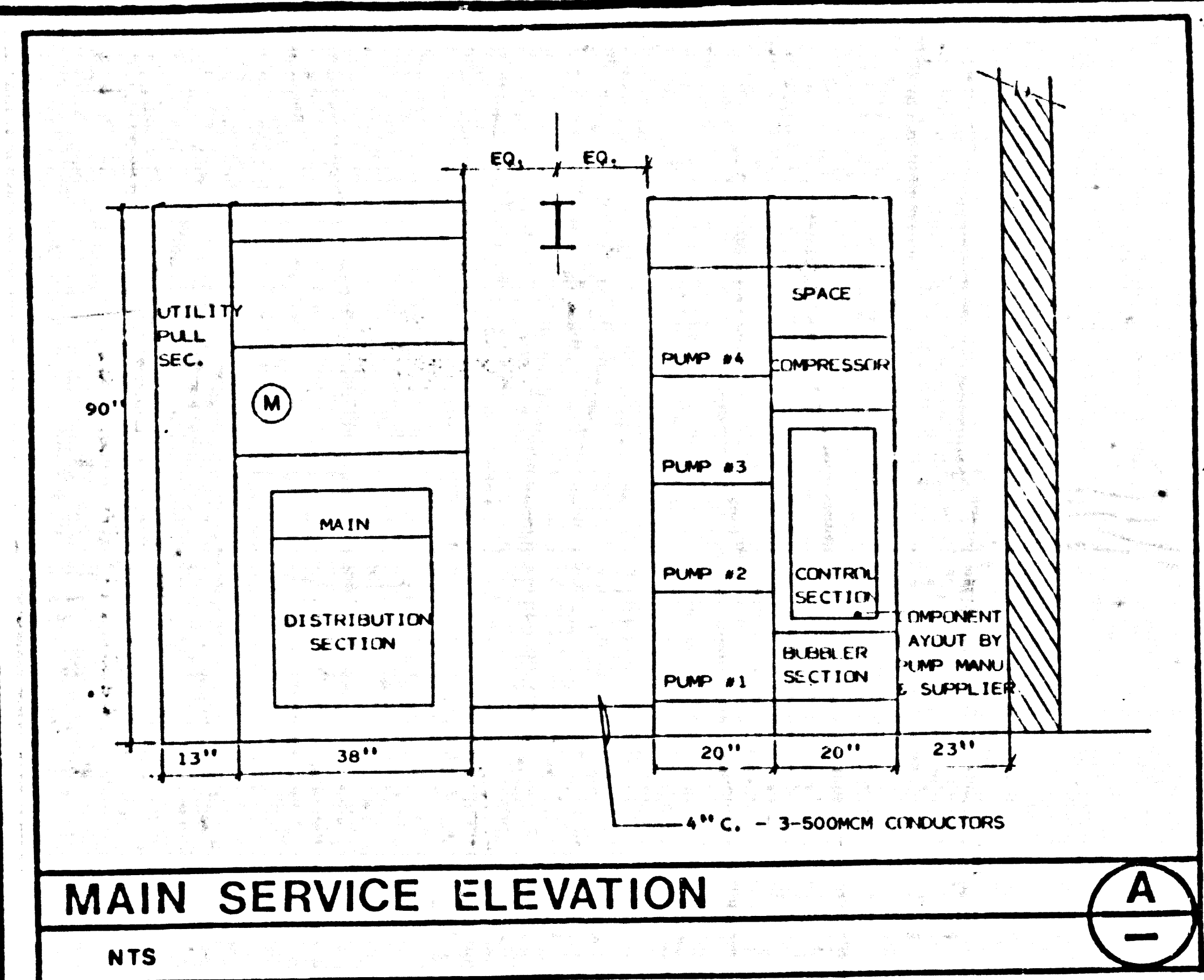
WJ ENGINEERING, INC.
1440 WEST COLORADO BLVD
PASADENA CALIFORNIA 91105
TELEPHONE (213) 684 0854

COUNTY OF LOS ANGELES, CALIFORNIA
STEPHEN J. KOONCE COUNTY ENGINEER

TRACT NO. 42557
P.C. 10002-A SEWAGE PUMP STATION

LIGHTING & POWER PLANS CONTROL
ENVIRONMENTAL DEVELOPMENT DIVISION

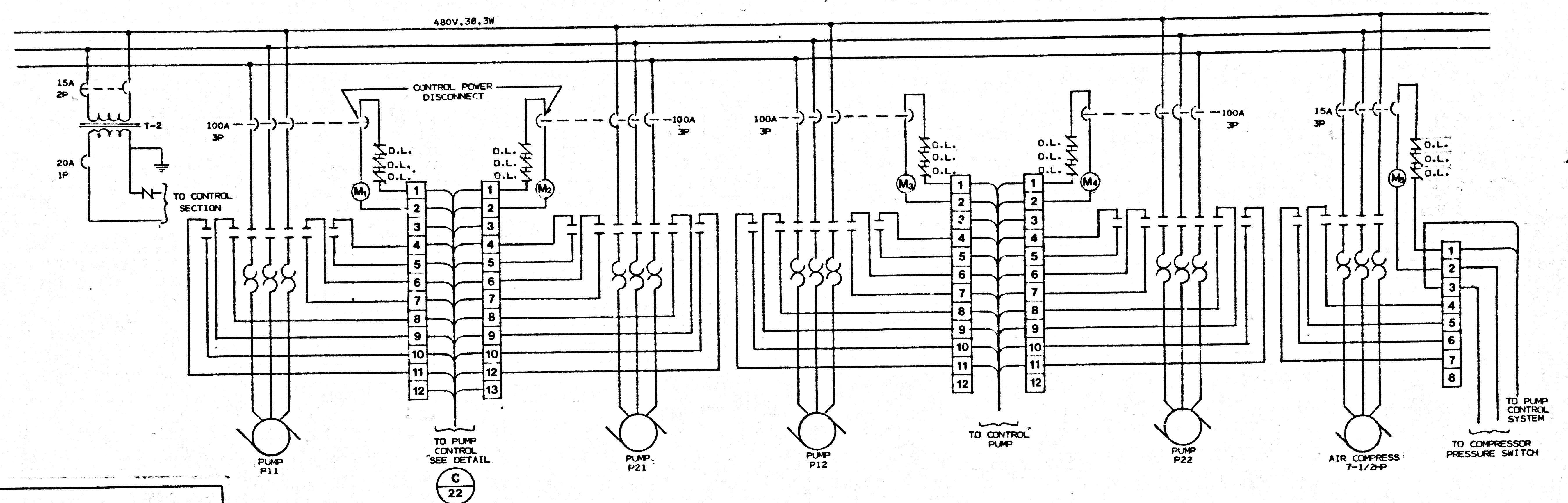
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MAIN SERVICE ELEVATION

NTS

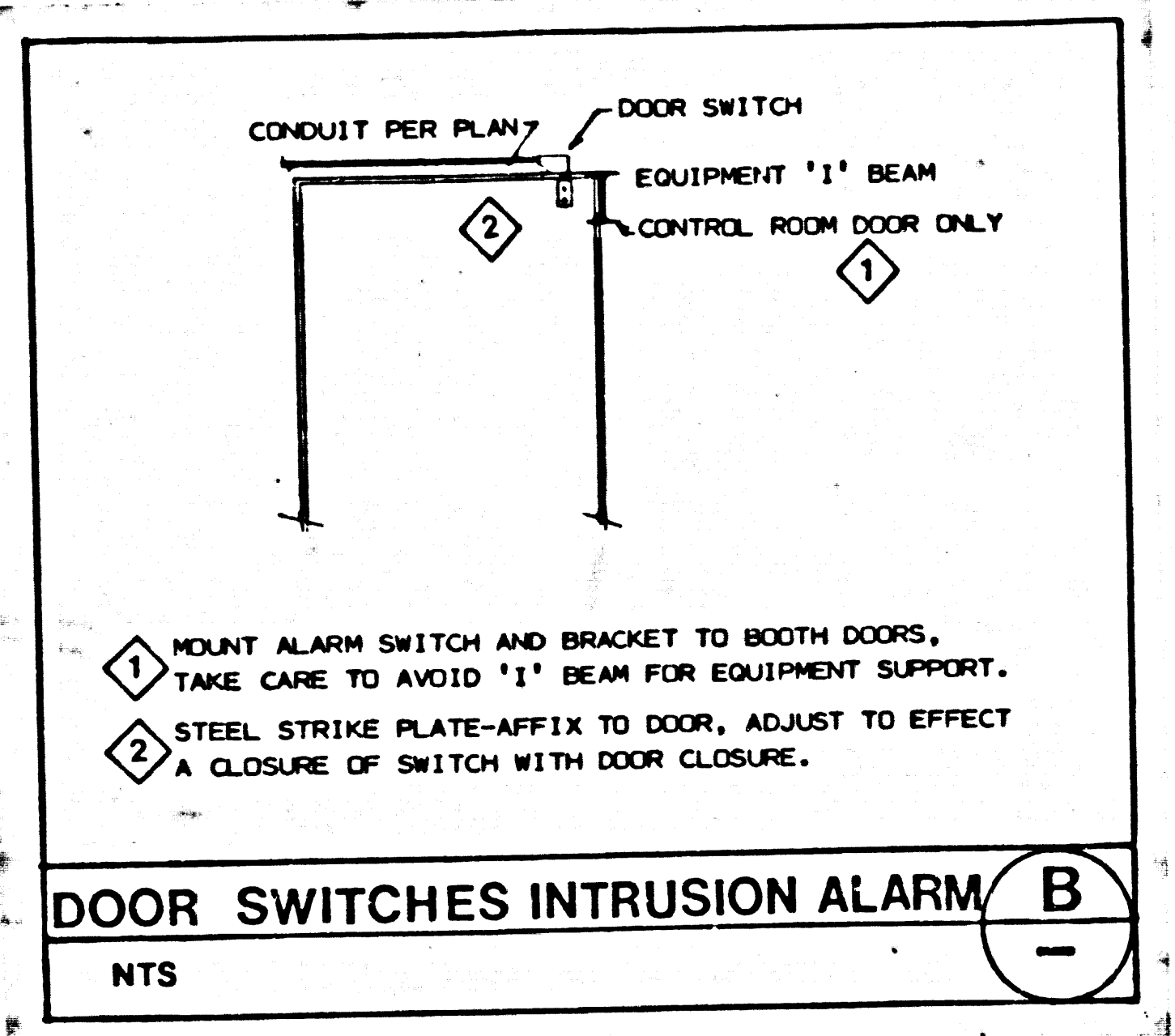
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MOTOR CONTROL DETAIL

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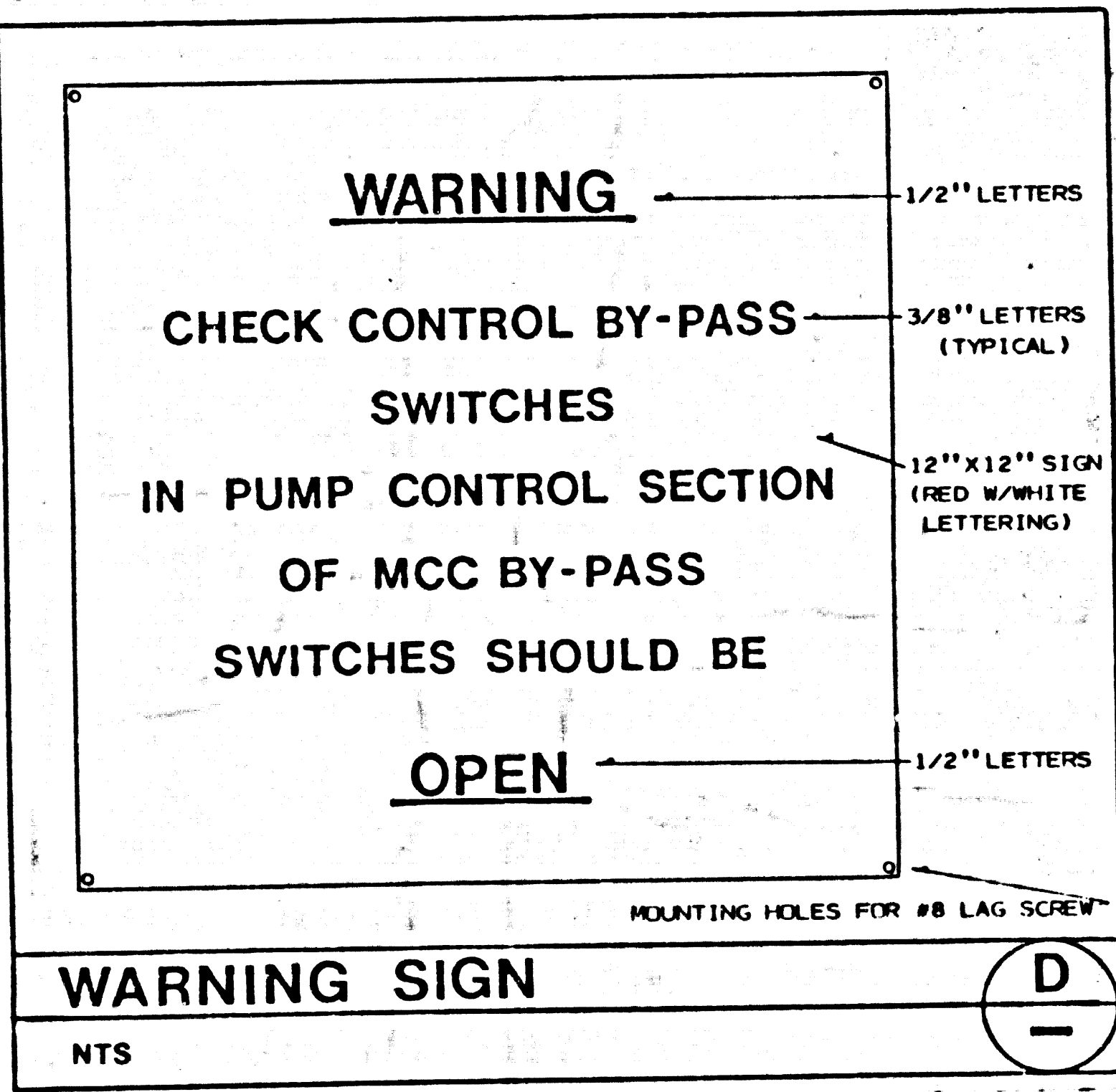
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DOOR SWITCHES INTRUSION ALARM

NTS

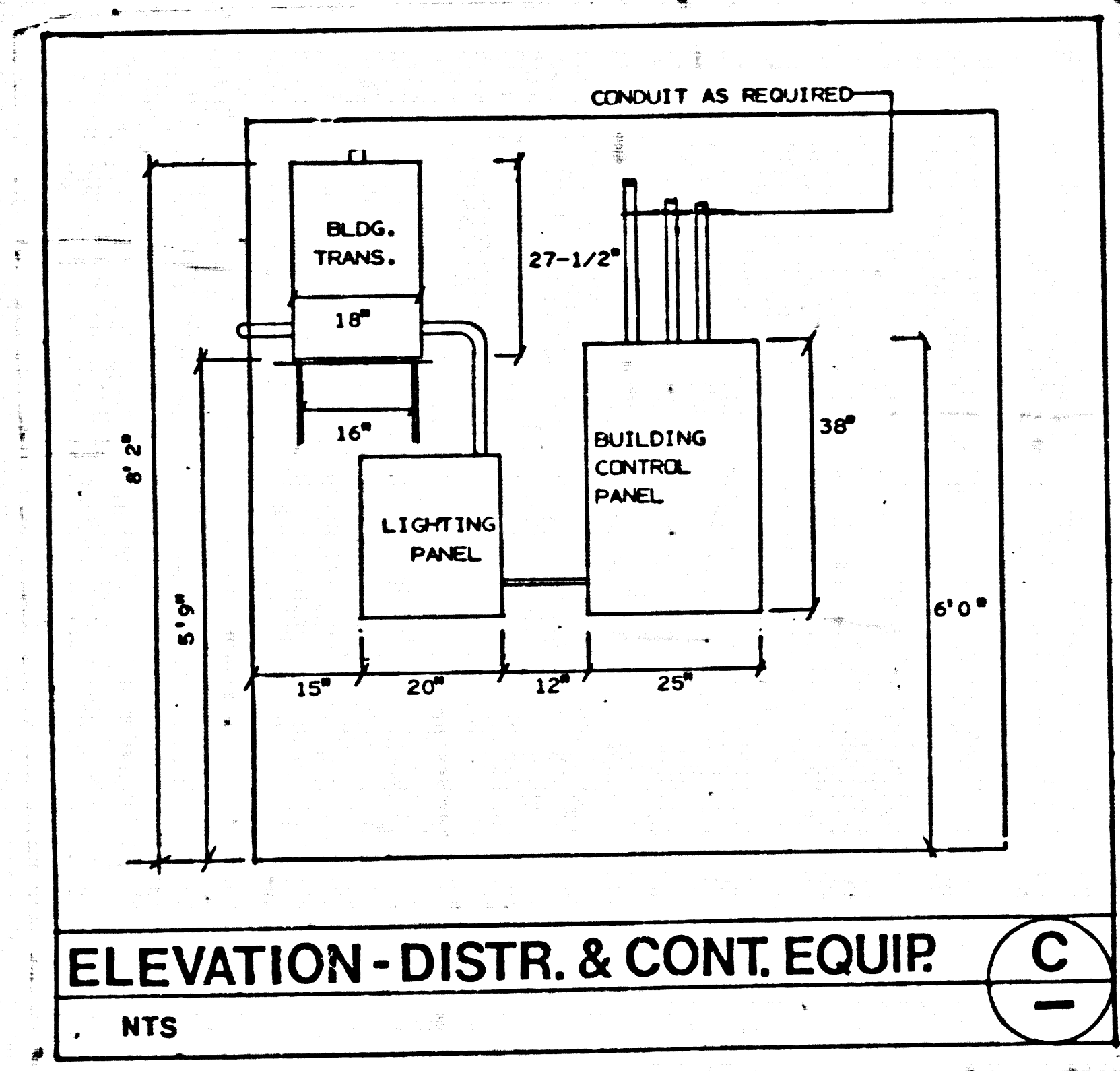
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WARNING SIGN

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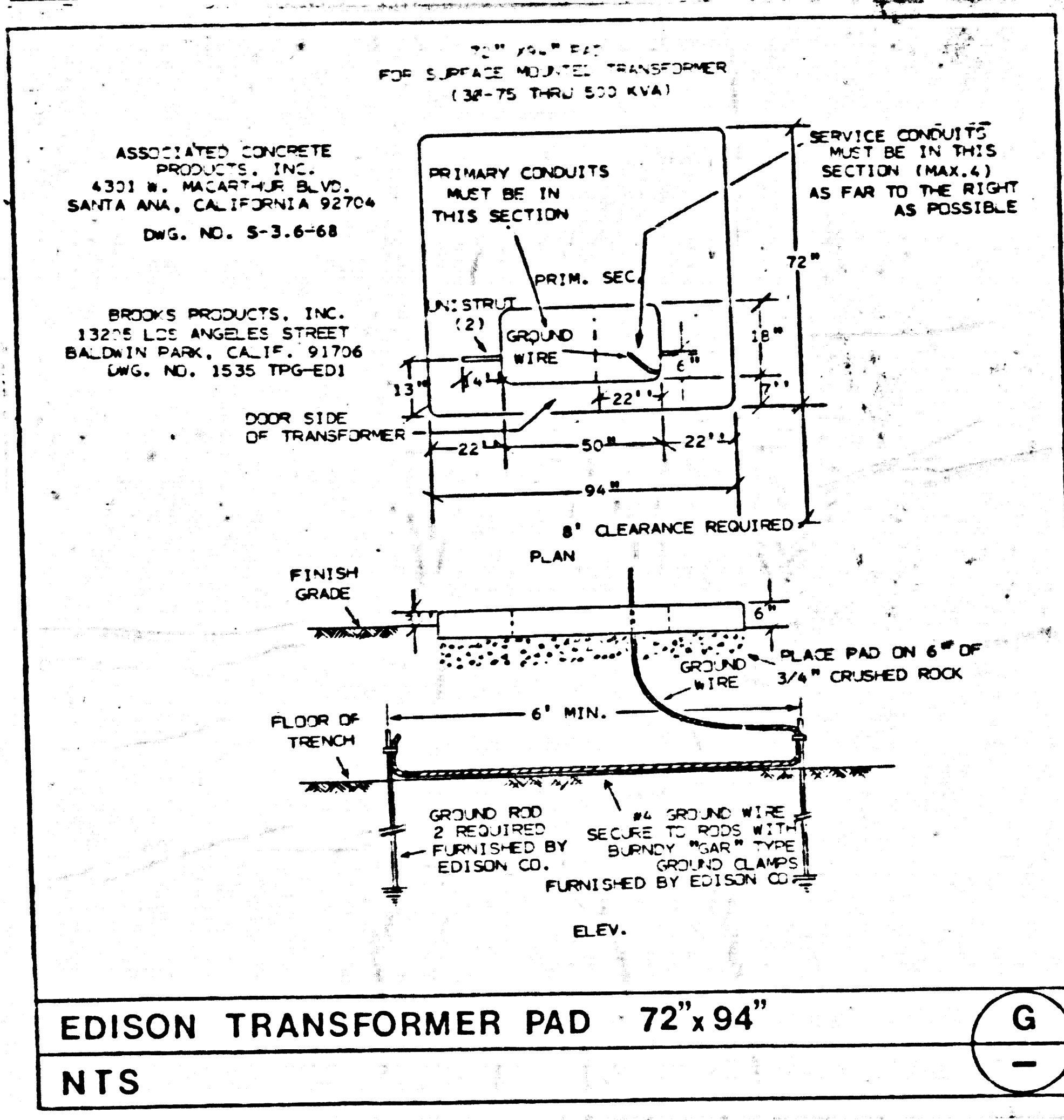
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ELEVATION - DISTR. & CONT. EQUIP

NTS

C



EDISON TRANSFORMER PAD 72\"/>

NTS

G

50960

COUNTY OF LOS ANGELES, CALIFORNIA	
STEPHEN J. KOONCE	COUNTY ENGINEER
TRACT NO. 42557	
R.C. 10002-A	SEWAGE PUMP STATION
DETAILS AND PANEL SCHEDULE	
ENVIRONMENTAL DEVELOPMENT DIVISION	
SCALE: AS NOTED	DATE: 5-13-82
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