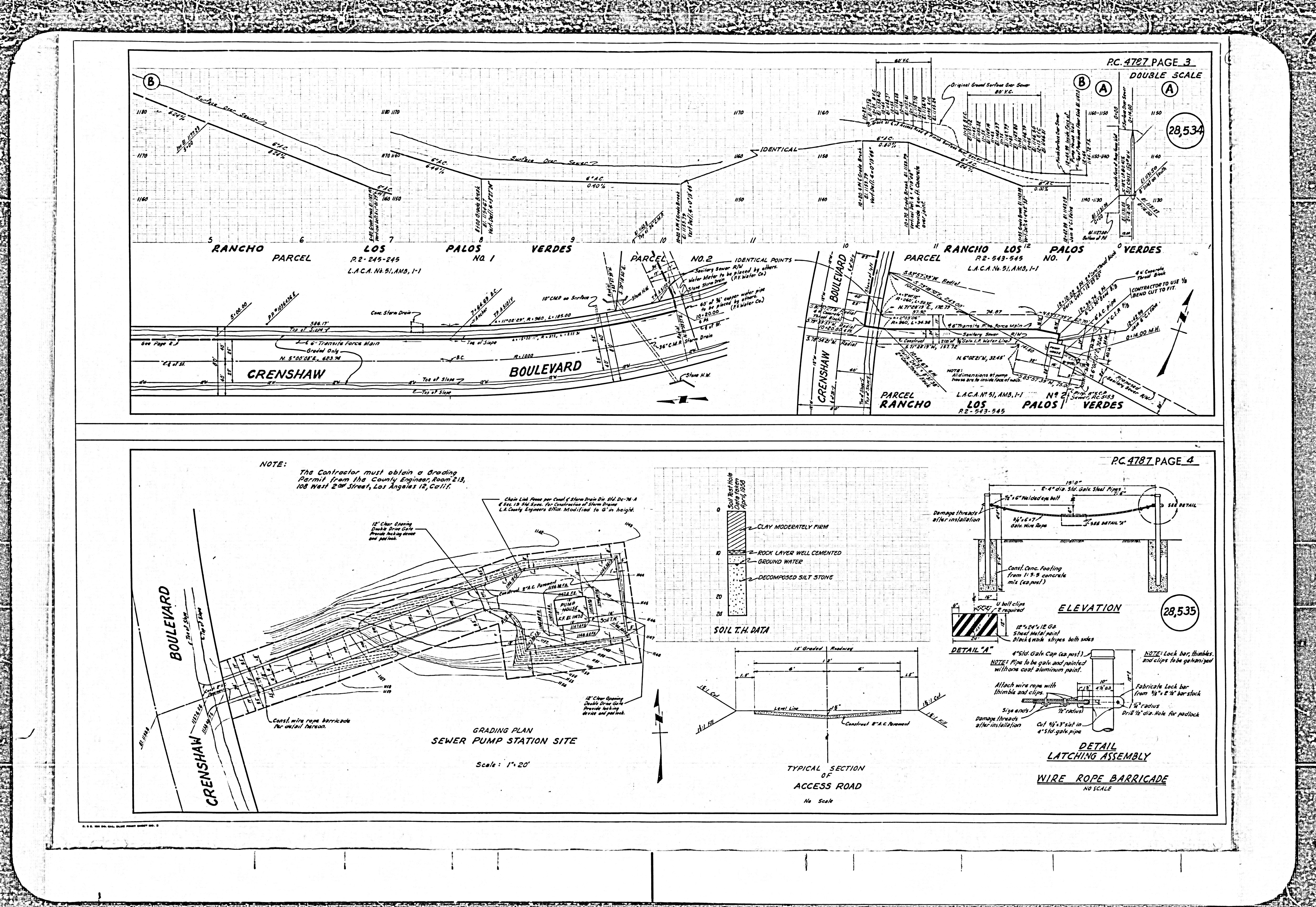


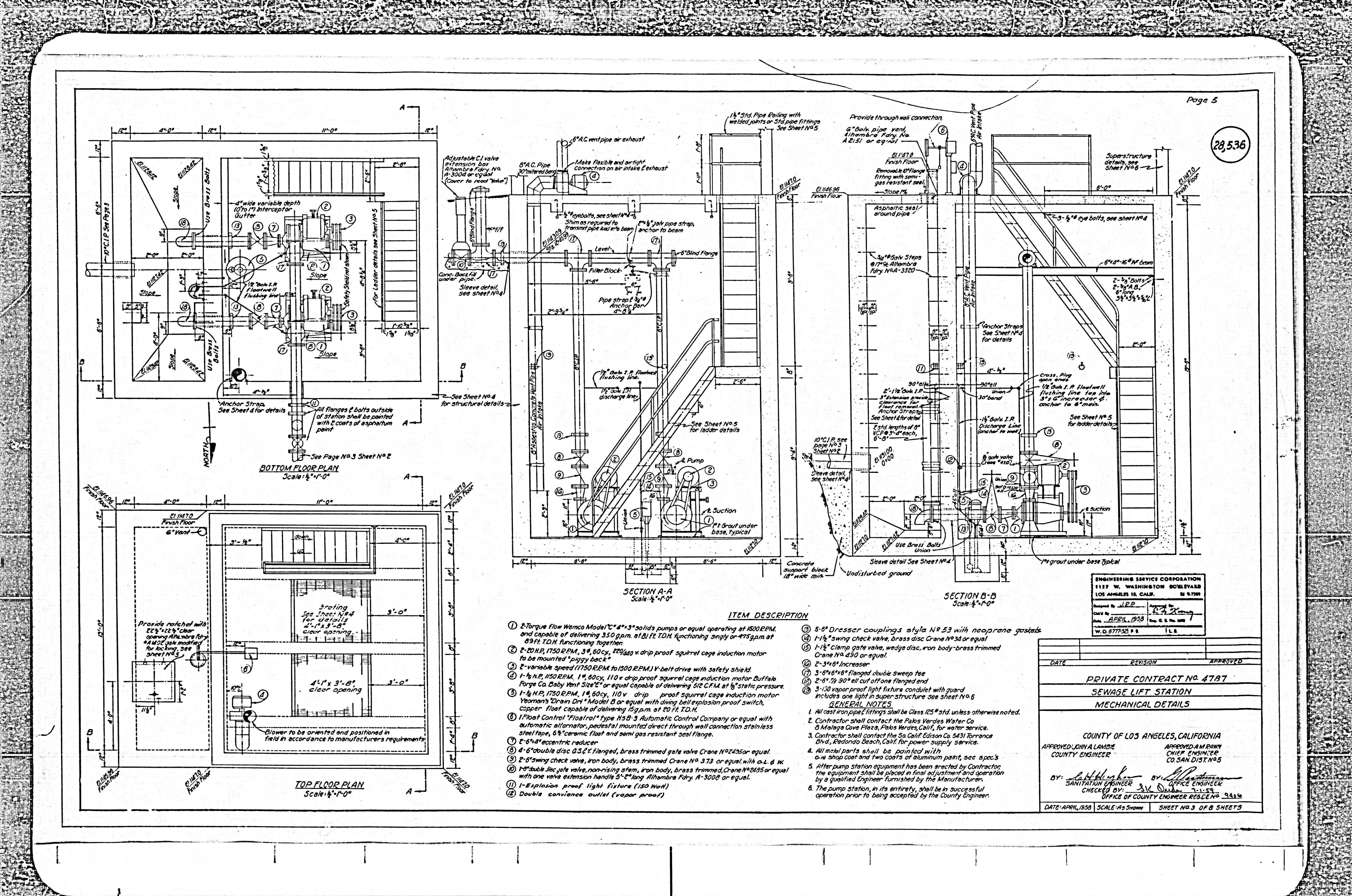
24 /23/22 21 TRACT 20 Nº 23/G3 CRENGEN BOULEVARD CRENGEN BOULEVARD

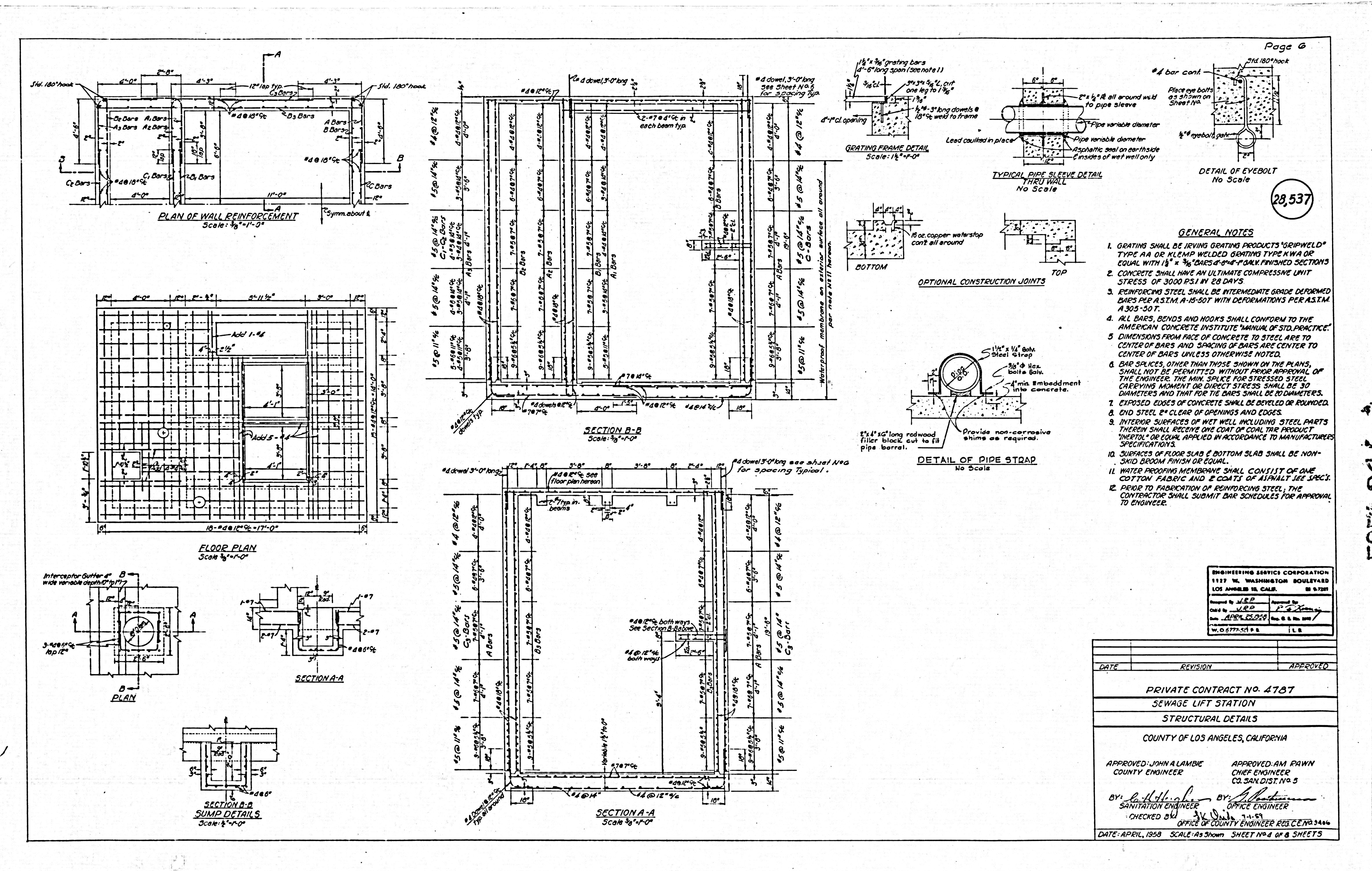
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P/L Date
- 105'12'47'

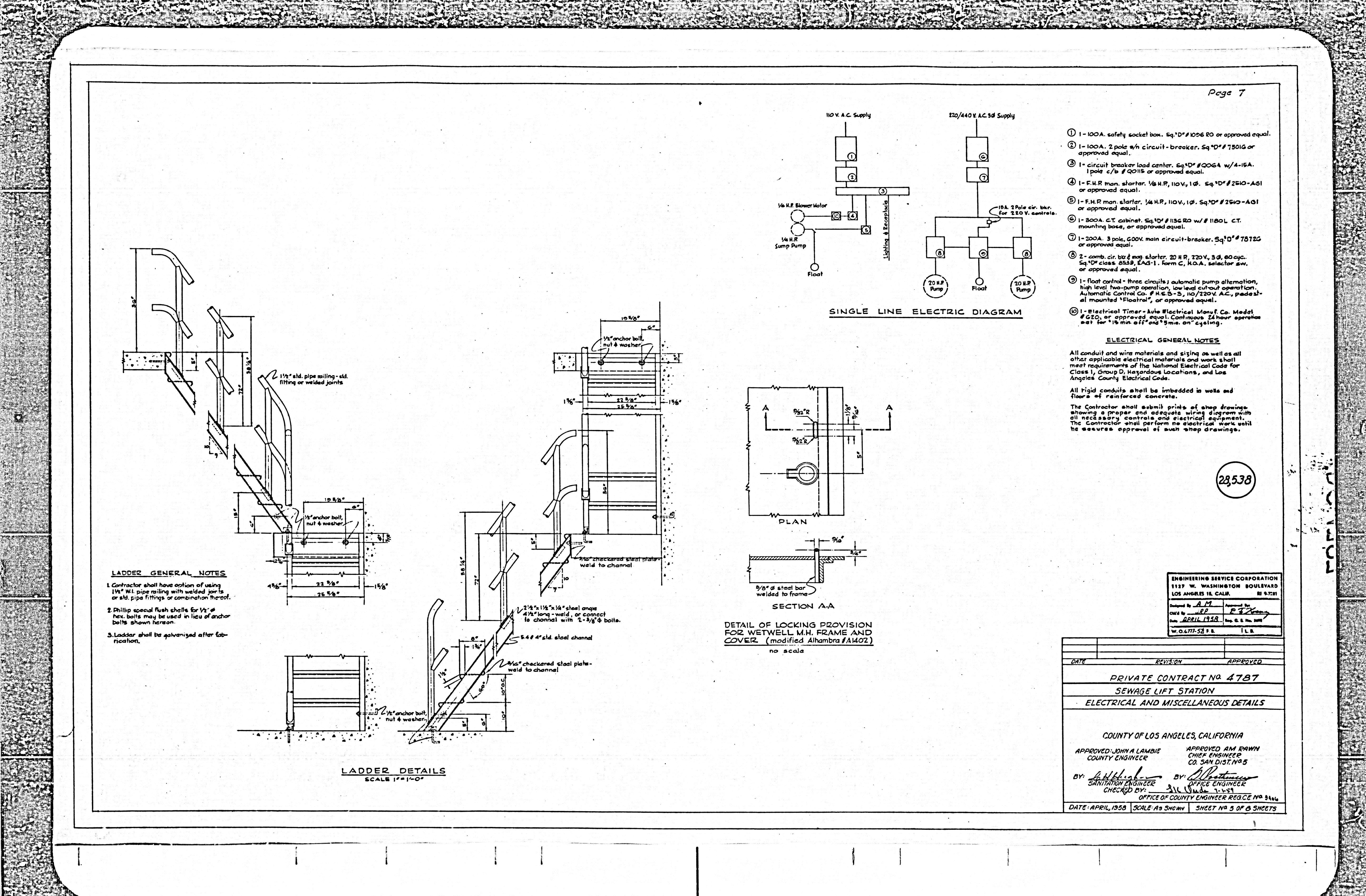
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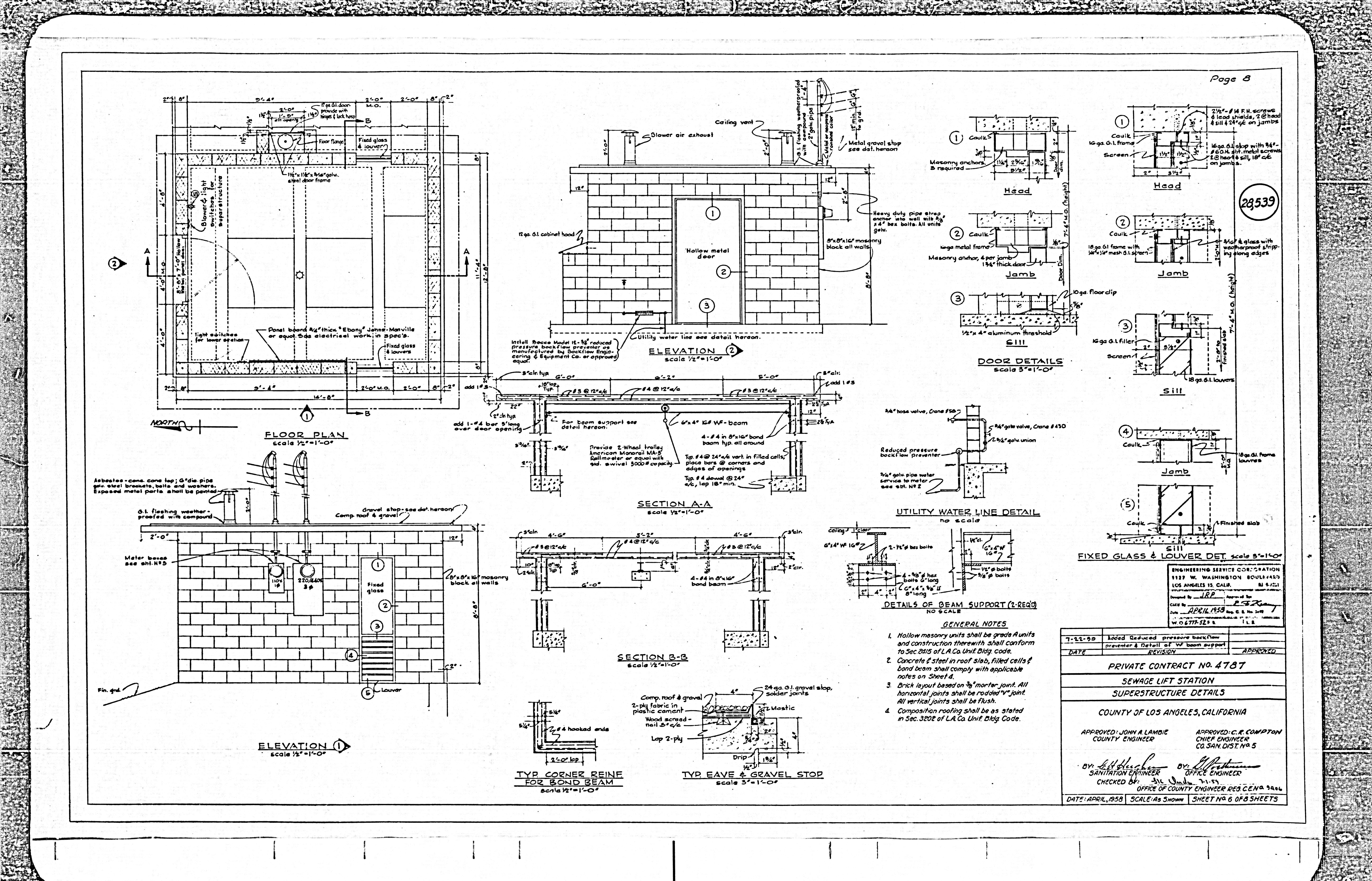
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LOM!TA BUILDING DISTRICT NO. 7. 1 PRIVATE CONTRACT NO. 4787

SPECIAL PROVISIONS

I. WORK TO BE DONE

The Contractor shall furnish all labor, materials, equipment and services and shall do whatever else is required to construct the force main and pumping plant and gravity sewer line in accordance with the details shown on P. C. No. 4787 (8 sheets), the plans referred to thereon, and the requirements of these specifications and of the County Engineer's Standard Specifications for the Construction of Samary Sewers approved Mey 15, 1959 and all subsequent amendments thereto.

2. SHOP DRAWINGS

The Contractor shall prepare shop drawings and submit them to the County Engineer for approval wherever said drawings are required by the plans or other sections of these specifications or wherever the Contractor proposes to construct the work different from the details shown on the plans and/or the requirements of the specifications.

A shop drawing shall first be submitted in print form, in triplicate, not less than 30 days prior to the date on which its approval is required. After being checked, one print of the drawing will be returned to the Contractor. The Contractor shall then make any and all corrections thereon to the original drawing and shall furnish and deliver to the County Engineer a transparent positive print of the corrected drawing.

The transparent positive print will be checked and if found correct will be approved and retained by the County Engineer as a permanent record. Prints from approved transparent positives will be furnished to the Contractor.

Approval of any drawing by the County Engineer shall be subject to the conditions that the dimensions thereon which affect other portions of the work will be checked and verified by the Contractor in the field.

If a shop drawing includes a change of any requirement of the contract plans or specifications, the Contractor shall make a clearly legible note of the change on the drawing. If the County Engineer approves, a change order will be issued and the approved shop drawing, together with the change order, shall supersede the requirements of the contract plans and/or specifications, where applicable.

plant, shall receive one prime coat of 713 Surfa-Sele cement sealer and two coats of high reflective 500 Chrome Ready Mixed Aluminum - 50 as manufactured by Rust-Oleum Corporation

Motors

All electric motors and electric control boxes shall receive one coat of Rust-Oleum Corporation 1282 Quick Drying Green - SO and appropriate prime coat as recommended by manufacturer.

4. Ferrous Metal Surfaces

The following items shall receive one prime coat as recommended by paint manufacturer and two coats of Rust-Oleum Corporation 500 Chrome Ready Mixed Aluminum - 50.

- (a) Railings, ladders, structural members, angles, brackets and fastenings.
 - (b) Pipe, valves and pipe fittings.
 - (c) Conduit and fittings.
 - (d) Hoist anchors.
 - (e) Blower, sump pump, sewage pump, and the supports for same.
- 5. All interior surfaces of wet-well, including all metal parts therein, shall receive two coats of Intertol Black or an approved equal.

6. Exterior painting will be required for the masonry super-structure, doors, louvers, framing, roof and gravel stops. The Contractor shall use the following color shades of Rust-Oleum Corporation or equal exterior paints of the Long Oil Types. One prime coat and one finish coat are required.

- (a) Roof shall be semi-gloss white finish.
- (b) Masonry shall be semi-gloss rose finish.
- (c) Doors and louvers shall be semi-gloss light green finish.
- (d) All exposed metals not mentioned in (c) above, shall be semigloss aluminum finish.

B. Preparation of Surfaces

Surfaces to be painted shall be free of dirt, grease, oil, mortar, rust, efflorescence or other foreign substance before painting is started.

3. TYPE, QUALITY AND MAKE OF MATERIALS AND FQUIPMENT

Each type of material furnished hereunder shall be uniformly of the same type and brand throughout the work. All units of equipment, performing like and equal functions, shall be of the same type, brand and manufacture.

Wherever any material or piece of equipment is referred to herein, or on the plans by manufacturer's name, symbol or catalog number, it shall be understood to indicate its type, style and quality, and not necessarily its manufacturer. Whenever a brand name is specified, it shall be understood to mean that brand or equal.

The Contractor may request substitution of material or equipment other than those names, in which case, he shall furnish all information required by the County Engineer to determine the acceptability of the proposed substitutions.

The Contractor shall, at no additional expense to the Subdivider or the County Engineer, make all revisions and/or alterations necessary to install approved substitute materials and/or equipment.

4. GUARANTEE

The Contractor shall fully guarantee that all of the equipment furnished and installed by him will comply with the requirements of these specifications for a period of one year from the date of acceptance of the installation; he shall further guarantee to remove any equipment which fails to so comply or is found to be deficient in workmanship or materials and shall replace and install said equipment to the satisfaction of the County Engineer, all without cost to the County Engineer or Subdivider.

5. PRESERVATION OF PROPERTY

The Contractor's attention is directed to Section 15 of County Engineer's Standard Specifications for Construction of Sanitary Sewers. The requirements of said Section shall apply to all improvements and facilities located in easements or rights-of-way.

. CONSTRUCTION PUMP STATION

- A. All concrete and reinforcing steel shall be of the type shown on the drawings and shall comply with the requirements of applicable sections of the County Engineer's Standard Specifications for Construction of Sanitary Sewers.
- B. All exterior surfaces, as shown on plans, shall be waterproofed in conformance with the requirements of Section 29 of Standard Specifications of the State of California, Department of Public Works, Division of Highways, August, 1954.
- C. Manhole frame and covers, ladders, rungs, structural steel, cast iron castings, and steel castings, as indicated in drawing, shall comply with applicable sections of the Standard Specifications for Construction of Sanitary Sewers.

Shop coated metals shall have all field connections, welds, soldered joints, burned and abraded portions spot-coated with the proper primer.

Galvanised surfaces shall be chemically treated to insure bonding of paint.

C. Application

Paint shall not be applied in rainy, foggy, windy or excessively cold weather.

Paint shall be hand brushed in smooth, even, uniform coats free of dirt, runs, brush marks and sags. Top edge of wainscot and edges of paint adjoining unpainted surfaces shall be clean, sharp and straight without overlapping.

Care shall be taken not to injure or spatter paint on adjacent work. Should any paint be spattered or applied where not specified, the defaced surface shall be cleaned and its original finish restored.

9. BLOWER

The blower, required as shown on the plans, shall be a Buffalo Forge Company's size E. Baby Vent Set with cast iron housing; shall have clockwise rotation with upblast discharge; and shall be capable of exhausting 512 CFM at 1/8-inch static pressure when operating at 1150 RPM.

The blower shall be direct connected to a motor that will drive the blower continuously under the condition specified herein without exceeding the rated horsepower. The motor shall conform to the applicable requirements set forth under the "Electrical Work" section of these specifications.

10. SUMP PUMP

The sump pump, required as shown on the plans, shall be a Model "B", size D-2 Sump Pump, as manufactured by the Yeomans Brothers Company, and shall be capable of delivering 15 gallons per minute at a total head of 20 feet. Said pump shall be equipped with galvanized steel diving bell.

The sump pump motor shall conform to the requirements of the "Electrical Work" section of these specifications.

The sump pump shall be equipped with a copper float and a float switch. The motor manual starter for the sump pump shall be furnished and installed as a part of the "Electrical Work" section of these specifications.

11. SEWAGE PUMPS

A. General

D. Excavation and backfill around structure shall be per Sections 43, 52 and 53 of Standard Specifications for Construction of Sanitary Sewers.

E. Grade A hollow masonry units construction and composition roofing and materials shall be in accordance with Los Angeles County Uniform Building Code.

7. FORCE MAIN

- A. Asbestos Cement pressure pipe shall be Class 150 pound with ring-tite couplings per requirements of A. W. W. A. Specification C 400-53 T, and shall also comply with applicable section of Transite Sewer Pipe Specifications as published by Johns-Manville Specification BMT-925 to BMT 931 inclusive.
- B. All Ring-Tite Cast Iron Pipe Fittings shall be Class 150 pound bell to bell, or as required for connections as shown on drawing and shall comply with A. W. W. A. Specifications C 110-52.
- C. Concrete thrust blocks shall be used on vertical and horizontal angle deflection points as recommended by manufacture of transite pipe. The Contractor may use long circular curves and vertical curves in lieu of sharp angle points.
- D. Excavation, backfill and bedding for Asbestos-Cement pipe shall be in conformance to Sections 43, 52 and 53 of Standard Specifications for Construction of Sanitary Sewers.
- E. Cast iron bell and spigot pipe shall be Class 150 pound with lead caulked joints. Installation of pipe, joint materials, backfill, excavation and method of construction shall conform to applicable section of Standard Specifications for the Construction of Sanitary Sewers.

8. FINISH PAINTING

A. Schedule of Finish Painting

The exposed surfaces of construction and equipment shall be painted as

Wainscots on Interior of Drywell

Two wainscots shall be painted on the interior walls of the pumping station, one extending 4'-6" above the bottom floor and one extending 4'-6" above the grating floor. The wainscots shall receive one coat of Rust-Oluem 713 Surfa-Sele cement sealer and two coats of Rust-Oluem 837 Sun-Glo.

2. Ceiling and Walls Other Than Wainscots on Interior of Drywell

The ceiling and interior walls, other than wainscots, of the pumping

The Contractor shall furnish and install two horizontal Model 4C33 Wemco pumps as manufactured by Western Machinery Company. Each pump shall be belt driven with motors mounted horizontally above pump housing. Pumps shall be capable of delivering 350 GPM at 81 feet of total head when operating singly and 475 GPM at 89 feet of total head when operating together at 1500 RPM. Belt drive shall be of the variable speed type 1750 RPM at motors and 1500 RPM at pump. A safety shield shall be provided.

B. Motors

The motors shall be of sufficient size to produce the above pumping and shall conform to requirements set forth under "Electrical Work" section of these specifications.

C. Float Control

The float control shall be an automatic alternating type, complete with 6-1/2" ceramic float, semi-gas resistant seal flange, pedestal mounted direct through wall connection and stainless steel tape. The controls shall be so arranged that on rising water level in wet well, pump No. 1 shall automatically start. If level continues to rise, pump No. 2 shall start. On falling water level, pump No. 2 shall stop first and thereafter pump No. 1 shall stop. The sequence of operation shall be automatically changed by the alternation of pumps after each cycle. Controls shall be equal to Automatic Control Co. Type HSB-3 and shall conform to applicable requirements set forth in "Electrical Work" of these specifications.

The Contractor shall have the option of installing Sealtrode No. Y59 two pump control, three electrodes, with automatic pump alternation as manufactured by Chicago Pump Co. in lieu of the float control. Sealtrodes shall be set to operate pumps as stated above. Contractor shall submit drawings for complete electrical and mechanical installation of Sealtrodes. In the option to use Sealtrodes, equipment required for float controls will be voided. Said equipment shall be float, tape, 8 inch V. C. P. float chamber, electric and mechanical units required for float control units. The 1/2 inch float flushing line

12. PIPING A. Flanged Cast Iron Pipe

shall be installed as shown on plans.

Flanged cast iron pipe may have integral flanges cast with the pipe or threaded flanges. All flanged cast iron pipe shall be Class 125 pipe conforming to the requirements of A.S.A. Specifications A.S.A. 21-2. Screw-on flanges shall be Class 125 and shall conform to the requirements of A.S.A. Specifications B 16. 1 - 1948.

B. Galvanized Steel Pipe

All galvanized steel pipe shall be standard weight and conform to the requirements of A.S.T.M. Specifications A 120-46.

APPROVED REVISION PRIVATE CONTRACT Nº 4787 SEWAGE LIFT STATION SPECIFICATIONS COUNTY OF LOS ANGELES, CALIFORNIA APPROVED: A.M. RAWN APPROVED : JOHN A. LAMBIE COUNTY ENGINEER CHIEF ENGINEER CO. SAN. DIST. Nº 5 SANITATION ENGINEER OFFICE ENGINEER

DATE CHECKED BY: -31 Unide 1-8-59 OFFICE OF COUNTY ENGINEER REG. C.E.Nª 9466

DATE: APRIL, 1958 SCALE AS SHOWN SHEET NO. 7 OF 8 SHEETS

All fittings required for galvanized steel pipe shall be 150-pound, banded, screwed, galvanized malleable iron fittings conforming to the requirements of ASA Specifications B 16 C-1939.

D. Installation

1. General

Proper judgement shall be exercised in the installation of plumbing and piping to secure the best possible headroom and space conditions throughout, to secure a neat arrangement of piping and to overcome local difficulties and interference with architectural, mechanical, electrical and/or structural features. All pipes rhall be accurately cut to measurements established by the Contractor at the site of the work and shall be installed without straining or forcing.

All plumbing and piping work shall be properly protected to prevent sobstruction or damage. All pipe openings shall be closed with caps or plugs during installation. All fixtures and equipment shall be tightly covered and protected to prevent adhesion of foreign materials and to prevent mechanical damage.

2. Pipe Joints

(a) Screw Joints

Threads for screw joints shall be full cut. Excessive numbers of threads exposed when a screw joint has been made will not be permitted. All abrasions to pipes and fittings and all exposed threads shall receive a coat of red lead immediately after a screw joint has been made. Any leaky joints in threaded pipe shall be remade with new material. The use of thread cement or caulking to make the joints tight is prohibited.

(b) Flanged Joints

Pipe flanges shall not loosen under any condition of service. Pipe shall finish flush with the face of the flange, and the inner edge of the pipe shall be rounded to eliminate sharp edges. Flange faces shall be made perpendicular to the long axis of the pipe. Bolt holes in flanges shall be accurately drilled to standard template. All materials shall be fabricated with a tolerance of plus or minus 1/16 inch on all dimensions. Flanged joints shall be made with full face, 1/16 inch. Garlock No. 122, red rubser gaskets, and shall be firmly and fully bolted with galvanized machine bolts and nuts of the proper size.

6. All wiring shall be installed so that, when completed, the system shall be free from short circuits and grounds. The Contractor shall conduct a megger test of each circuit in the presence of the Inspector before the circuit is energized. The insulation and resistance shall be in conformance with the Los Angeles County Electrical Code.

G. Lighting Fixtures

Each lighting fixture shall be properly connected to the branch circuit and lamped with 150 watt lamps.

H. Grounding

Continuity of conduit and equipment grounding, where required, shall be established by a green bonding jumper and/or ground litting, and shall be the same size as equipment leads.

Panel Board

- 1. The panel board shall be fastened on the walls of the superstructure as shows on drawing and shall be 3/4 inch thick sheet of Johns-Manville "Ebony" or equal. The length and witch of panel board will vary as required for electrical equipment which shall be mounted thereon.
- 2. Before construction of the panel board is initiated, the Contractor shall submit for approval, shop drawings, showing the assembly of electrical equipment thereon, complete wiring diagram, material list and nameplate list.
- 3. Motor and control equipment shall be designed and built for 120 volt, single phase, 2 wire, 60 cycle alternating current or 240 volt, three phase, 3 wire, 60 cycle alternating current as shown on the plans; lighting equipment for 120/240 volt, single phase, 3 wire, 60 cycle alternating current.
- 4. All wiring in the panel board shall be neatly formed and fastened with clips and/or lacing.
- 5. Standard type wiring will be acceptable provided that the minimum wire size is #14 gauge.
- 6. Bussing shall consist of pure electrolytic copper bus bar at not less than 98% conductivity and shall conform to the following requirements.

The current density in the bus shall not exceed 1000 amperes per square inch in cross sectional area, and 200 amperes per square inch in any bolted joint,

All bus bar joints shall be silver plated.

13. ELECTRICAL WORK AND INSTRUMENTATION

A. General

Where electrical work is shown schematically on the plans, and details for the same are not set forth under the specifications, the Contractor shall furnish all materials and do all work necessary to construct the electrical work as complete and properly operating electrical systems.

All electrical materials and equipment shall be new and shall be listed by the Underwriters Laboratories, Inc. as conforming to its standards in every case where such standard has been established for the particular type of material or piece of equipment in question.

B. Codes and Safety Orders

All electrical work shall comply with the applicable requirements of the Los Angeles County Electrical Code and the Electrical Safety Orders of the Division of Industrial Safety of the State of California.

C. Service

The electrical service shall have the following characteristics:

Lighting: 110/220 volts, single phase, 3 wire, 60 cycle alternating current.

Power: 220/440 volts, 3 phase, 3 wire, 60 cycle alternating current.

The contractor shall notify the Southern California Edison Company three weeks prior to the time at which power supply is required for the pumping station. The Contractor shall construct service head pipe to meter box and install wires for connection thereto by the Power Company. All said work shall conform to the requirements of the Southern California Edison Company.

The Subdivider will pay all costs which may be charged by the Company for permanent services.

D. Conduit

1. The actual location of conduit and conduit termination at motors shall be determined in the field.

2. All conduit shall be surface mounted, except where noted on drawings, and shall be fastened to the adjacent concrete with one hole, galvanised, cast malleable conduit straps and brass screws. Suitable expansion anchors shall be installed as required.

- 7. Circuit breakers shall be of the thermal magnetic type, and shall incorporate time overcurrent and instantaneous short circuit protection with means for locking them in open position. Each motor starter shall be equipped with bimetal type overload relays.
- 8. Nameplates shall be made to black and white laminated engraving stock with white lettering.
- 9. A photostat of the wiring diagram shown on the approved shop drawing shall be mounted under a transparent cover beside the panel board."

Motors

Electrical motors shall conform to the following requirements:

Compressor Motor

20 HP, 1750 RPM, 240 volt, 60 cycle, three phase, motor equal to General Electric type K Code F.

Blower Motor

1/6 HP, 1725 RPM, 120 volt, 60 cycle, single phase motor equal to General Electric type KH.

Sump Pump Motor

1/4 HP, 1750 RPM, 120 volt, 60 cycle, single phase motor equal to General Electric type KH.

14. FIELD TESTS

A. General

In addition to conducting shop tests specified under other sect as of these specifications, the Contractor shall conduct the field tests specified here-

All field tests shall be conducted in the presence of County Inspector. The Contractor shall furnish all equipment and materials and shall do all work required to complete the tests and to make necessary corrections.

B. Force Main

The force main from the pump discharge 6-inch gate valve to the force main discharge manhole shall be tested using a test pressure of 20 psi at the discharge manhole. There shall be no visible leakage within the pump station.

3. All conduit, except short lengths of flexible conduit for connection to motors, shall be standard galvanized rigid steel conduct, with a smooth interior coating of lacquer equal to Republic's Blue Label "Galvite" finish and shall bear the Underwriters Laboratories' label on each length.

4. The minimum inside radius of a conduit bend shall be six conduit diameters. All flattened bends will be rejected. The use of 90° standard factory conduit elbows in conduit runs will be permitted only in locations where concrete walls or slabs will not permit the use of long radius bends.

5. All conduit ends shall be reamed smooth after cutting and before threading. All conduit joints shall be made-up gas and liquid tight. The conduit thread shall be thoroughly filled with red lead before screwing into couplings, umons or fittings.

6. Approved conduit unions may be used where required. Running thread connections will not be permitted.

7. All machined surfaces of conduit fittings shall be protected during

All boxes and fittings shall be approved by the Underwriters Laboratories, Inc.

2. Outlet boxes shall be mounted exposed, except where noted on drawing for connecting conduits. Each box shall be plumbed and securely fastened to the adjacent structure independently of the conduit.

F. Conductors

- 1. Conductors shall be single, solid or stranded, copper conductor with 600-volt type TW insulation.
- 2. All wires and cables shall be identified at points of splicing and termination with approved marking tape.
- 3. Conductors shall be continuous from outlet to outlet, and no splices shall be made except within an outlet box or junction box.
- 4. Any lubricant used to aid pulling of conductors shall be chemically inert, and shall meet the recommendations of the manufacturer of the conductor.
- 5. Splices shall be mechanically strong, electrically perfect, soldered and taped so that the completed joint shall be at least equal to the original conductor, and shall be painted with Scotchkote.

C. Equipment

1. Preliminary Tests

The Contractor shall make preliminary tests of the pumps, blower, valves and automatic controls to demonstrate that they are in proper working

2. Operation of Plant

When the equipment has satisfactorily passed the preliminary tests, the Contractor shall divert sewage into the pumping plant. The County will then take over operation of the plant. Such operation shall not be deemed acceptance of the equipment, and the Contractor shall be solely responsible for all damage resulting from this operation, except any damage resulting directly from negligent acts of the County or any of its representatives.

3. Final Acceptance Tests

During the operation of the plant by the County, and prior to the final acceptance of the contract work, tests shall be made to demonstrate that the equipment meets the following requirements:

- (a) The pumps and blower units shall operate without excessive noise or vibration and without overheating of bearings.
- (b) All automatic and manual electric controls shall function in accordance with specification requirements.
- (c) All motors shall operate without being overloaded.

REVISION APPROVED PRIVATE CONTRACT Nº 4787 SEWAGE LIFT STATION SPECIFICATIONS COUNTY OF LOS ANGELES, CALIFORNIA APPROVED: JOHN A. LAMBIE APPROVED: A.M. RAWN COUNTY ENGINEER CHIEF ENGINEER CO. SAN. DIST. NA S

SANITATION ENGINEER OFFICE ENGINEER CHECKED BY: SK Unite 7-1-59
OFFICE OF COUNTY ENGINEER RED C.E. Nº 9406

DATE: APRIL, 1958 SCALE AS SHOWN SHEET 8 OF 8 SHEETS