THE CITY OF WALTHAM MASSACHUSETTS PURCHASING DEPARTMENT

Design for the Replacement of the Wimbledon Circle Pump Station

(38 Wimbledon Circle)

ADDENDUM NO.1

May 7, 2019

CHANGES, CORRECTIONS AND CLARIFICATIONS

The attention of bidders submitting proposals for the above subject project is called to the following addendum to the specifications. The items set forth herein, whether of omission, addition, substitution or clarification are all to be included in and form a part of the proposal submitted.

THE NUMBER OF THIS ADDENDUM (NO. 1) MUST BE ACKNOWLEDGED IN PRICE SHEET

ITEM 1: DELETE AND REPLACE

Please <u>DELETE</u> the current bid opening date of 10.00 AM May 15, 2019 and <u>REPLACE</u> with 1.00PM May 21, 2019

ITEM 2: <u>ADD</u>

A pre bid briefing and site visit will be held 11.00AM May 15, 2019. Meet on site at 38 Wimbledon Circle

ITEM 3: ANSWERS TO POSED QUESTIONS:

- The RFP Intent of Project notes that the existing pump station and force main are to be replaced. In lieu of the replacing the existing force main, could the force main be rehabilitated via lining (perhaps a cured-in-place pipe (CIPP))?
 Yes, that is an option
- Does the City have any CCTV video and/or written documentation of the existing condition of the existing force main available for review?
 No.

- Does the City have record plans of the existing pumping station and force main available for review as part of our proposal preparation?
 Yes, see attached
- 4. Does the City have property and/or easement plans for the existing pump station and force main available for review as part of our proposal preparation? Easement/Property Plans are attached
- Project schedule there are several locations in the RFP that discuss project schedule. We assume the "Project Milestones/Schedule" listed after the Task 2 Construction Phase section is the City's intended schedule for the project. Please clarify.
 Yes, milestone track shows approximate schedule
- 6. Flow monitoring is required for this project. Based on review of the City's GIS sewer system mapping for this area, it appears that two flow meters will be necessary to collect flow data as two separate gravity sewers enter the pump station from different directions. Please confirm this is the case and also that manhole access will be available for flow meter installation on both influent gravity sewers. Lastly, no flow metering duration is specified. We assume this will be a relatively short flow metering duration to confirm actual flows to the station for sizing purposes of the replacement station. Please provide the intended flow metering duration.

Two flow meters may be required, see the attached plans for the sewer layout. The city does assume a short monitoring period of 1-2 weeks, with the purpose being to verify the flow in to station for sizing purposes. The flow meter in station is not reading correctly, however, pump runtime and water level of wet well is available to cross reference flow monitoring data.

- 7. Given the location of the existing station (adjacent to Mill Pond and associated wetlands), it appears that construction work will occur within the wetlands buffer zone. We assume that wetlands delineation will be necessary and a Request-for-determination-of-applicability (RDA) or Notice-of-Intent(NOI) filing with Conservation Commission will be necessary. Please clarify the wetlands permitting level of effort necessary.
 Yes, see revised scope
- Task 2-Construction Phase services includes onsite construction oversight be performed by the Engineer. More information on this task is requested. Will onsite construction oversight be full or part time? It would be helpful if the City would set the estimated number of hours of onsite construction observation for this project. The ESTIMATED number of hours is 500+/- 10%

- Evaluation and Ranking of Proposals Item 6 is specific to M/WBE participation in the project. Is this a requirement of the City or simply an opportunity for the consultant to try and garner 5 points in the ranking of its proposal. Please confirm both the MBE and WBE percentages for this project.
 Please delete this requirement
- 10. How many copies of the proposal are required for submittal?4 clipped copies, single-sided, without binding, staples, or 3hole punched
- 11. Cost proposal shall this be provided in a separate sealed envelope?
 No, please fill in the price sheet and submit along with the executed Compliance Documents
- 12. Are plans available for the existing pump station and force main? See attached
- 13. Is there any geotechnical information available for the pump station and force main? No geotechnical info is available
- 14. Would it be possible to a copy of the folios for that area, any available plans of the existing station, and the most recent Weston & Sampson inspection report? Plans and excerpt from latest inspection report are attached.

End of Addendum 1

TASK 1 – Pump Station Replacement Design:

Review all applicable information, data, surveys, reports and existing drawings related to the Project including, but not limited to, flow monitoring, record drawings, of existing facilities, environmental, geotechnical, and archaeological assessments previously completed in the area.

- Review of all applicable information required to establish the design criteria and pumping capacity for the Pump Station and Force Main Replacement including but not limited to flow monitoring data, and cadastral and zoning data.
- Conduct Project Definition Phase alternatives assessments or trade-off studies to assess the optimal site layout, construction methodologies, and define the preferred design concept for advancement to the preliminary design stage.
- Participate in a public consultation meeting with nearby residents to present the conceptual design, answer questions, and gain stakeholder input for incorporation into the design. The meeting will be organized by the City.
- Conduct detailed topographical land survey of the pertinent areas to confirm the record drawings and provide a base plan for design.
- Flag resource areas by Professional Wetland Scientist prior to survey.
- Conduct flow monitoring from a manhole directly preceding the pump station to determine flows.
- Conduct geotechnical site investigations and prepare a geotechnical report in sufficient detail to support the design.
- Identify design, construction, operation and maintenance constraints for the Project and recommend strategies for dealing with all constraints.
- Identify confined space issues for operation, maintenance and commissioning and develop designs to eliminate confined space issues.
- Identify construction impacts and temporary facility requirements to maintain operation of services during construction and commissioning.
- Include in the design means to the Pump Station for maintenance and heavy equipment removal.
- Include in the design a standby generator and associated fuel storage facilities to service the Pump Station.
- Include in the design instrumentation to monitor pump performance and future flows from the Pump Station.
- Include solids grinding such as a "Muffin Monster", include a FOG, fats, oil & grease system such as enzyme treatment systems.
- Ensure compatibility of the proposed system with the City's existing real-time alarm system utilized in other pumping stations.
- Confirm the requirements for all utilities servicing (e.g., water, storm, gas, electrical, cable, telephone, etc.)
- Evaluate the feasibility of a submersible vs a wet-well design, make recommendation on most efficient system.
- Prepare 50% preliminary design drawings and cost estimate for the project
- Meet with Engineering Dept. and Water & Sewer Division following submission of 50% plans to review the city's comment.
- Prepare 100% final design drawings, cost estimate, Specifications and bid documents

- Prepare and file a Notice of Intent(NOI) or Request for Determination of Applicability (RDA) as required with the Waltham Conservation Commission for the proposed work at the Pumping Station. Attend the public hearing with the Conservation Commission and respond to any questions from the Commission or DEP.
- Identify any other permits required to construct the proposed improvements and prepare as required.
- Assist the CITY in the bid process by attending one pre-bid conference, answering questions of potential bidders and develop any addenda if necessary.
- Review bids received, review for completeness, check references and recommend award to lowest qualified bidder.

INDEX

- 4+50 TO STA, 15+30
- STA 4+50' SEWER STA 0+00 TO STA 5+25
- 3. SEWER STA. 5+25 TO STA. 12+50
- 4. SEWER STA. 12+50 TO STA. 19+15
- 5. SITE PLAN ELEVATIONS AND DETAILS
- 6. PLANS, SECTIONS, DETAILS PRE-CAST CONC. PACKAGE PUMPING STATION
- 7. PLANS. SECTIONS. DETAILS PRE-CAST CONC. PACKAGE PUMPING STATION
- 8. ELECTRICAL

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9. MISCELANEOUS DETAILS

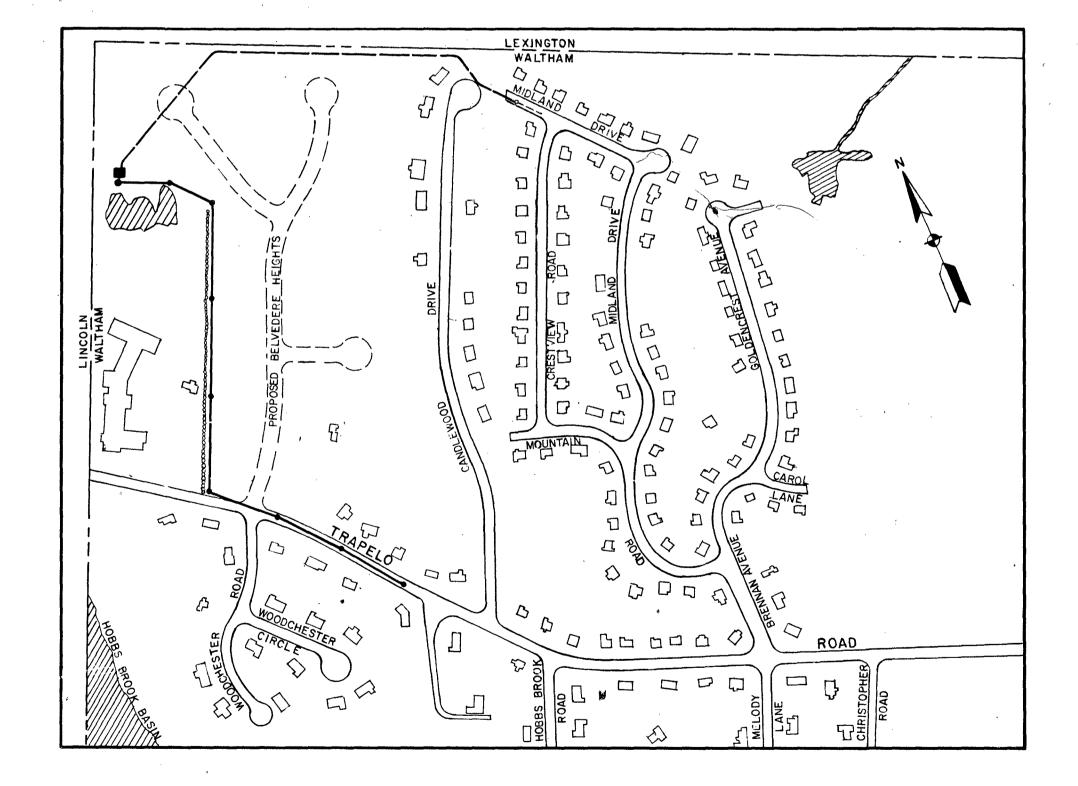
GENERAL NOTES

- 1. ALL ELEVATIONS ARE REFERRED TO WALTHAM CITY BASE WHICH IS 5.65 FEET BELOW MEAN SEA LEVEL.
- 2. LOCATION AND DESCRIPTION OF UTILITIES ARE FROM THE BEST AVAILABLE INFORMATION BUT ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UNDERGROUND UTILITIES BEFORE EXCAVATING.
- LINES FOR SERVICES, POLICE AND FIRE ALARM BOXES, STREET LIGHTS, TRAFFIC SIGNALS AND OVERHEAD POWER AND TELEPHONE LINES ARE NOT SHOWN ON THE PLANS. THE APPROPRIATE UTILITY COMPANIES, OR AUTHORITIES SHOULD BE CONSULTED FOR LOCATIONS OF THE ABOVE.
- PRIOR TO STARTING WORK IN EACH STREET, THE CONTRACTOR SHALL GIVE SUFFICIENT NOTIFICATION TO ALL AFFECTED PRIVATE AND PUBLIC COMPANIES, OR AUTHORITIES, TO PERMIT STREET MARKING OF THEIR INES.
- TRENCHES SHALL BE BACKFILLED TO AT LEAST 3' (feet) FROM FINISHED GRADE PRIOR ____5. TO THE REMOVAL OF SHEETING. ALL VOIDS LEFT BY THE REMOVAL OF SHEETING SHALL BE FILLED WITH GRAVEL AND COMPACTED BY HAND TAMFING.
 - BORINGS AND PROBES WERE TAKEN FOR THE PURPOSE OF DESIGN AND INDICATE CONDITIONS AT THE LOCATION OF THE BORING ONLY. SUBSURFACE CONDITIONS ENCOUNTERED DURING CONSTRUCTION MAY VARY FROM THOSE SHOWN IN THE BORING LOGS. GROUND WATER LEVELS INDICATED IN THE BORING LOGS ARE THOSE EXISTING AT THE TIME SUBSURFACE INVESTIGATIONS WERE MADE AND DO NOT REPRESENT PERMANENT GROUND WATER LEVELS.
 - 7. FOR BORING LOGS SEE APPENDIX A OF THE SPECIFICATIONS.
 - THE SEWERAGE FACILITIES STATIONING IS APPROXIMATE ONLY. THE EXACT 8. STATIONING SHALL BE DETERMINED BY THE CONTRACTOR AND RECORDED ON THE RECORD DRAWINGS.
 - DIVERSION AND CONTROL OF STORM SEWER FLOWS AND DEWATERING ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTORS INTENDED METHODS FOR DIVERSION AND CONTROL AND DEWATERING SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL.
 - UNLESS OTHERWISE INDICATED, DETAILS SHOWN ON ANY DRAWINGS ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.

CITY OF WALTHAM, MASSACHUSETTS

PLANS, PROFILES AND DETAILS FOR THE CONSTRUCTION OF

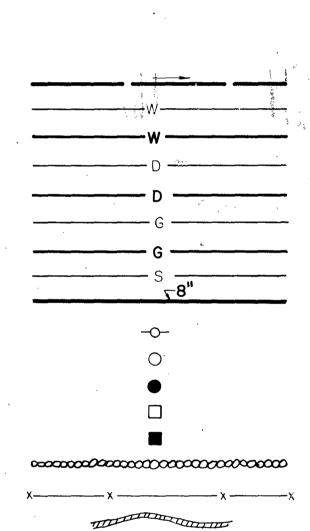
TRAPELO ROAD SEWER SEWAGE PUMP STATION NO. 5 & FORCE MAIN



LOCATION PLAN

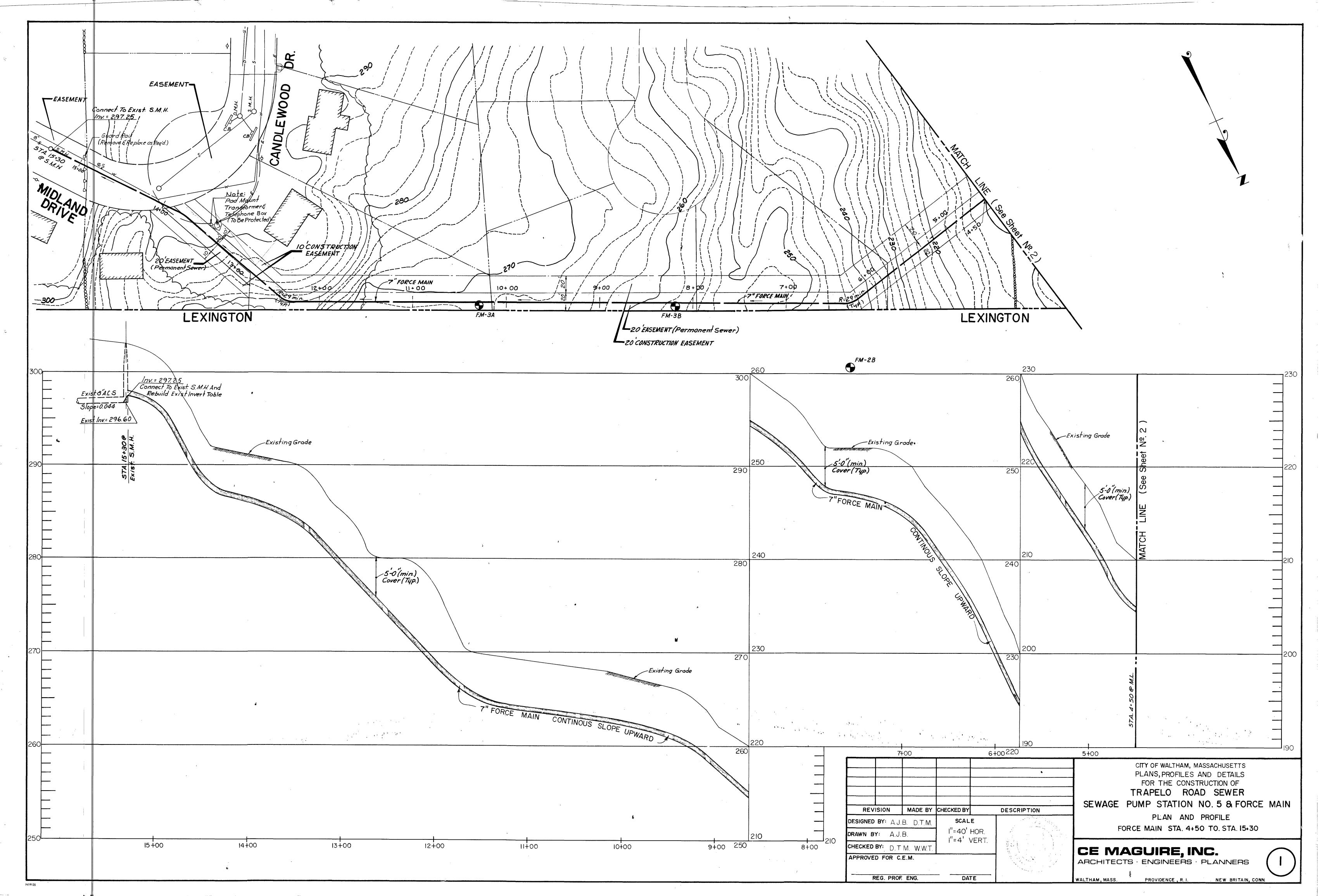
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PROPOSE EXISTING DRAIN PROPOSED DRAIN EXISTING GAS PROPOSED GAS EXISTING SEWER PROPOSED SEWER UTILITY POLE EXISTING MANHOLE PROPOSED MANHOLE EXISTING CATCH BASIN PROPOSED CATCH BASIN STONE WALL FENCE RIVERS LAKES AND PONDS SWAMP TREE EXISTING HYDRANT PROPERTY LINE EXISTING CONTOURS PROPOSED CONTOUR BORING LOCATION



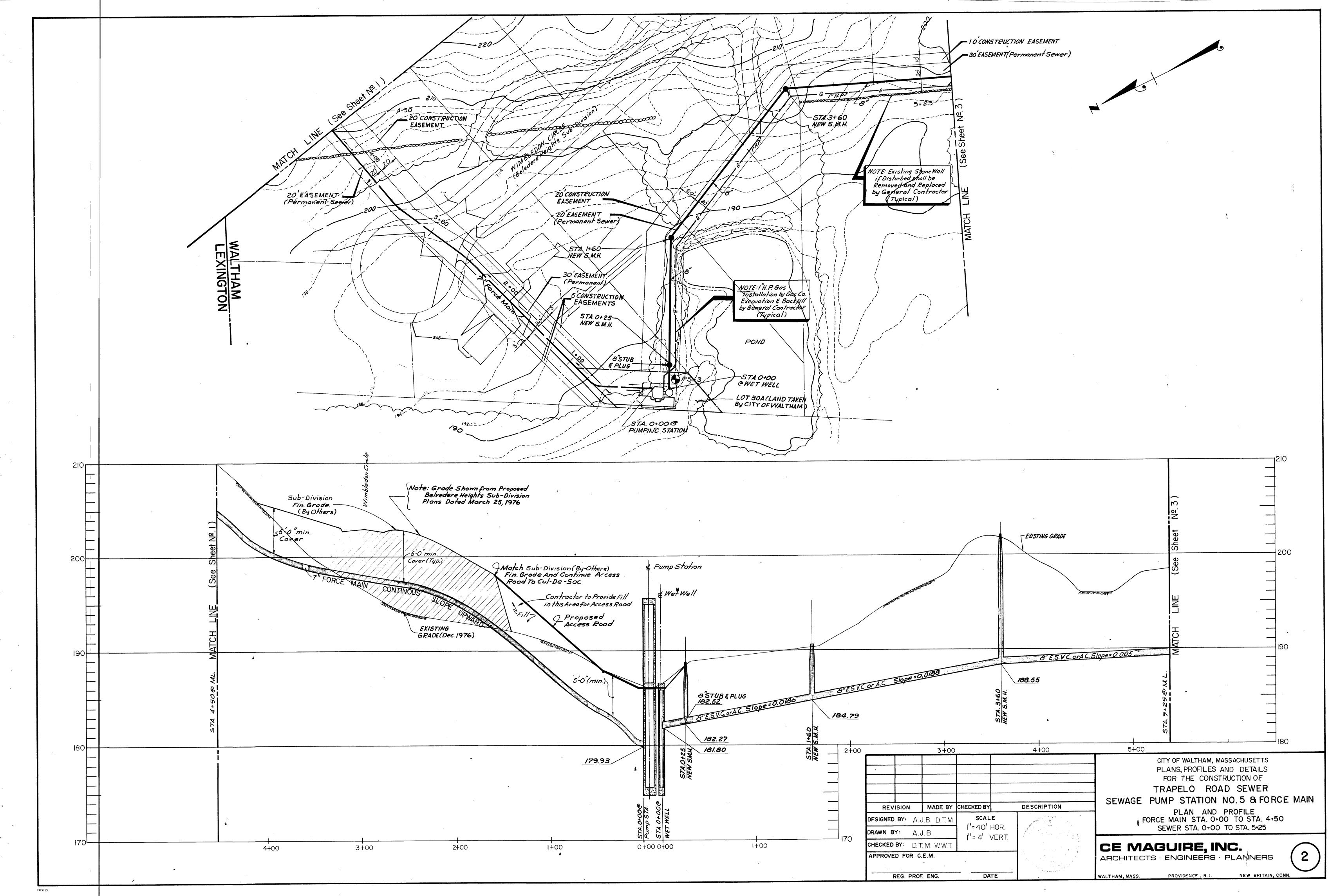
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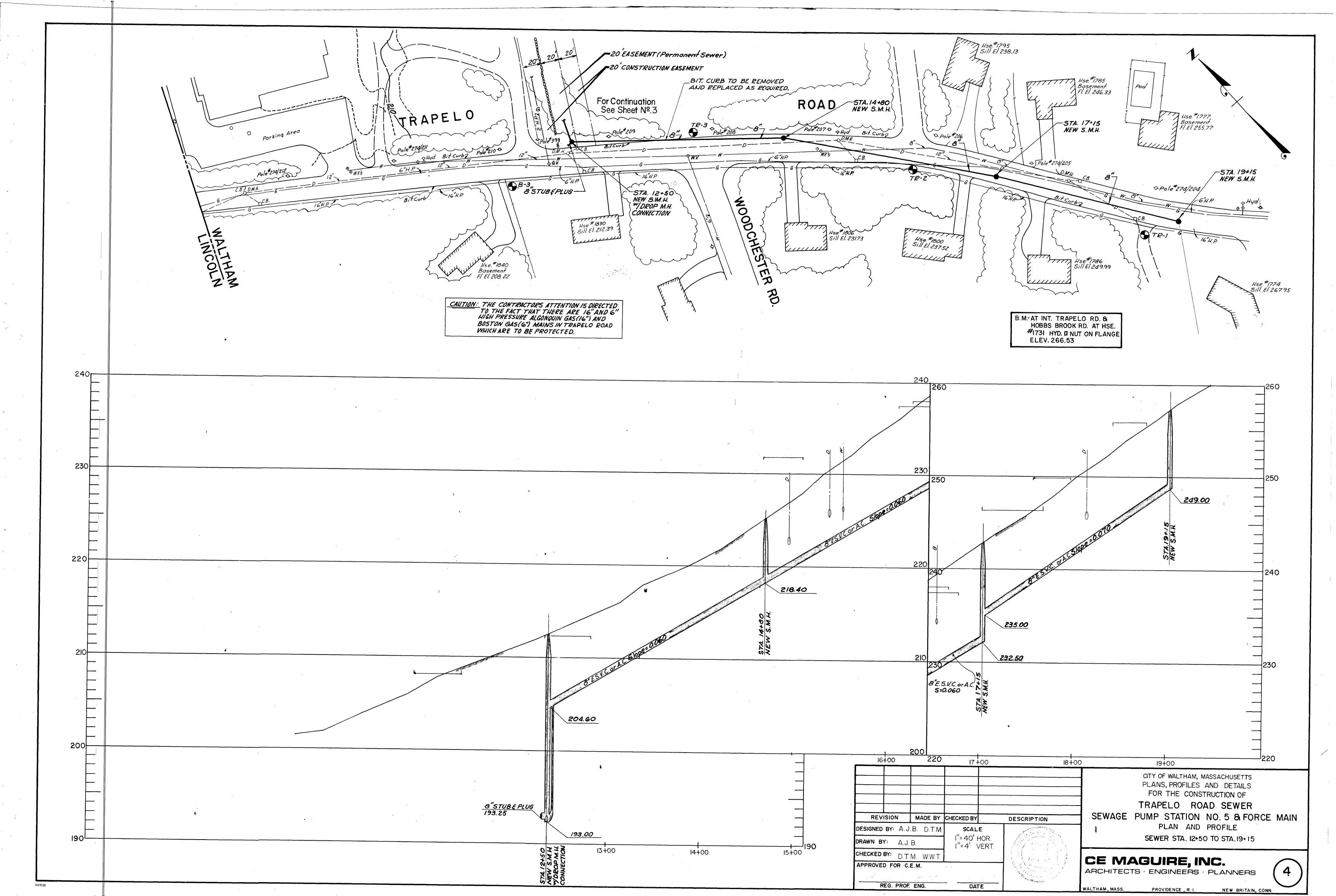
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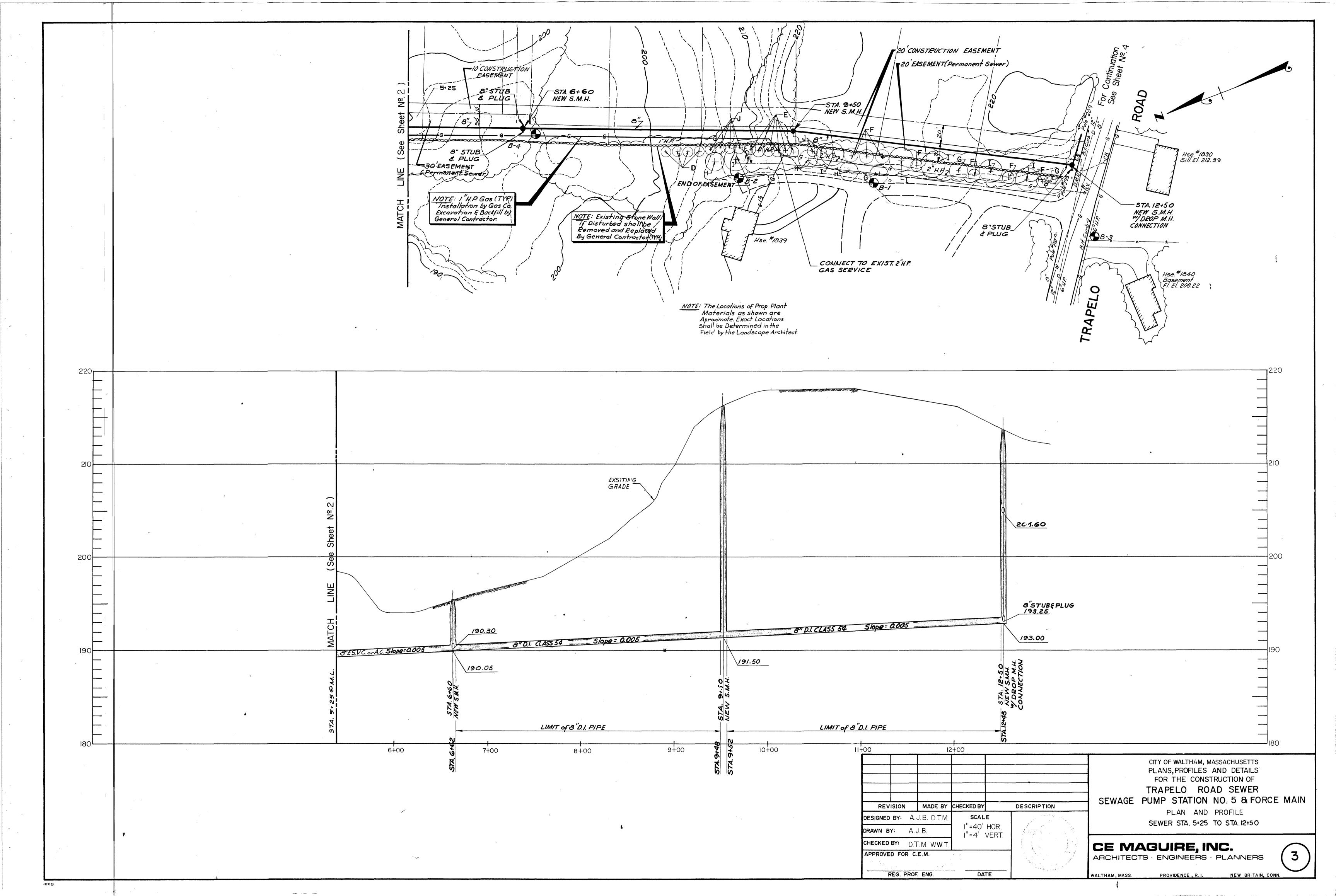


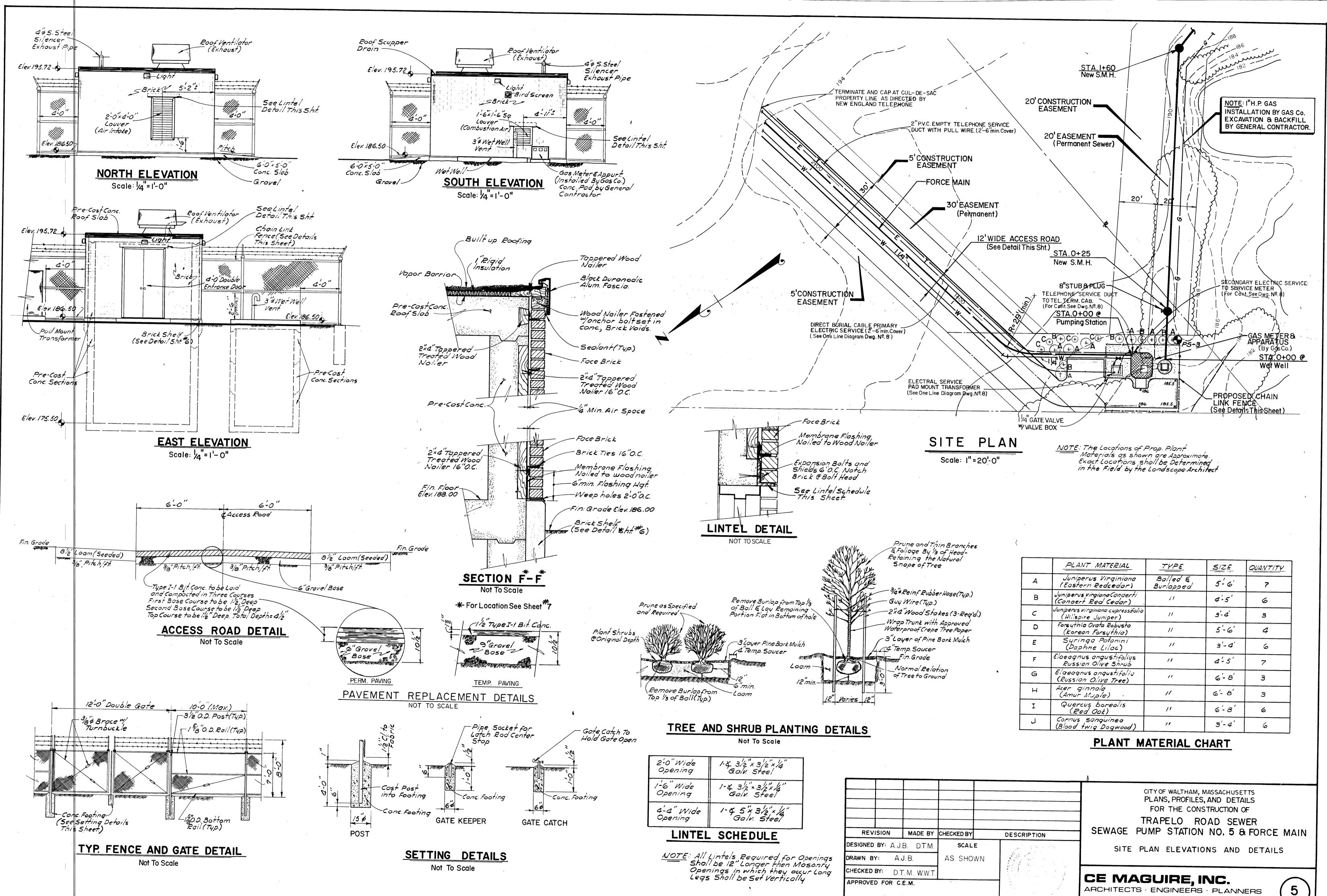
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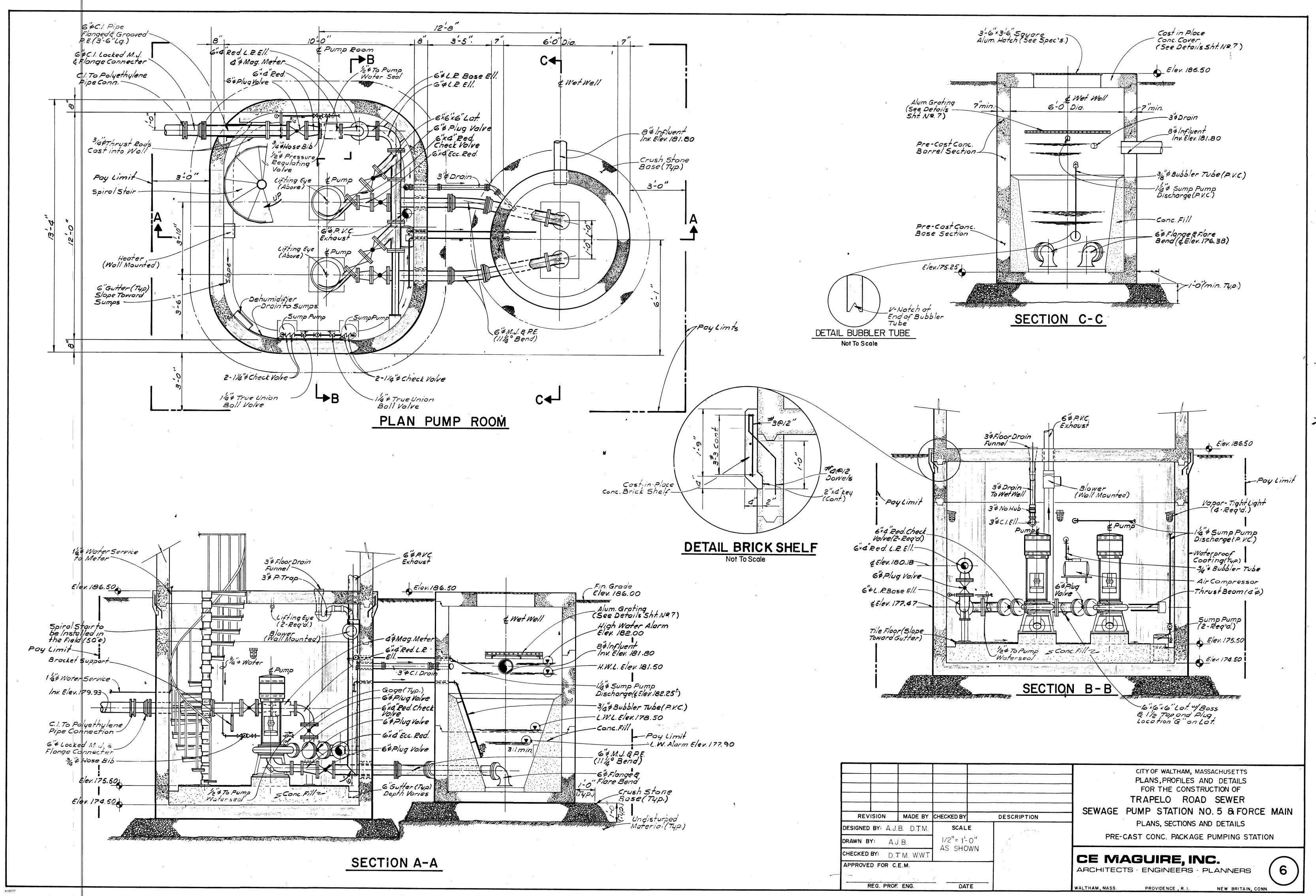


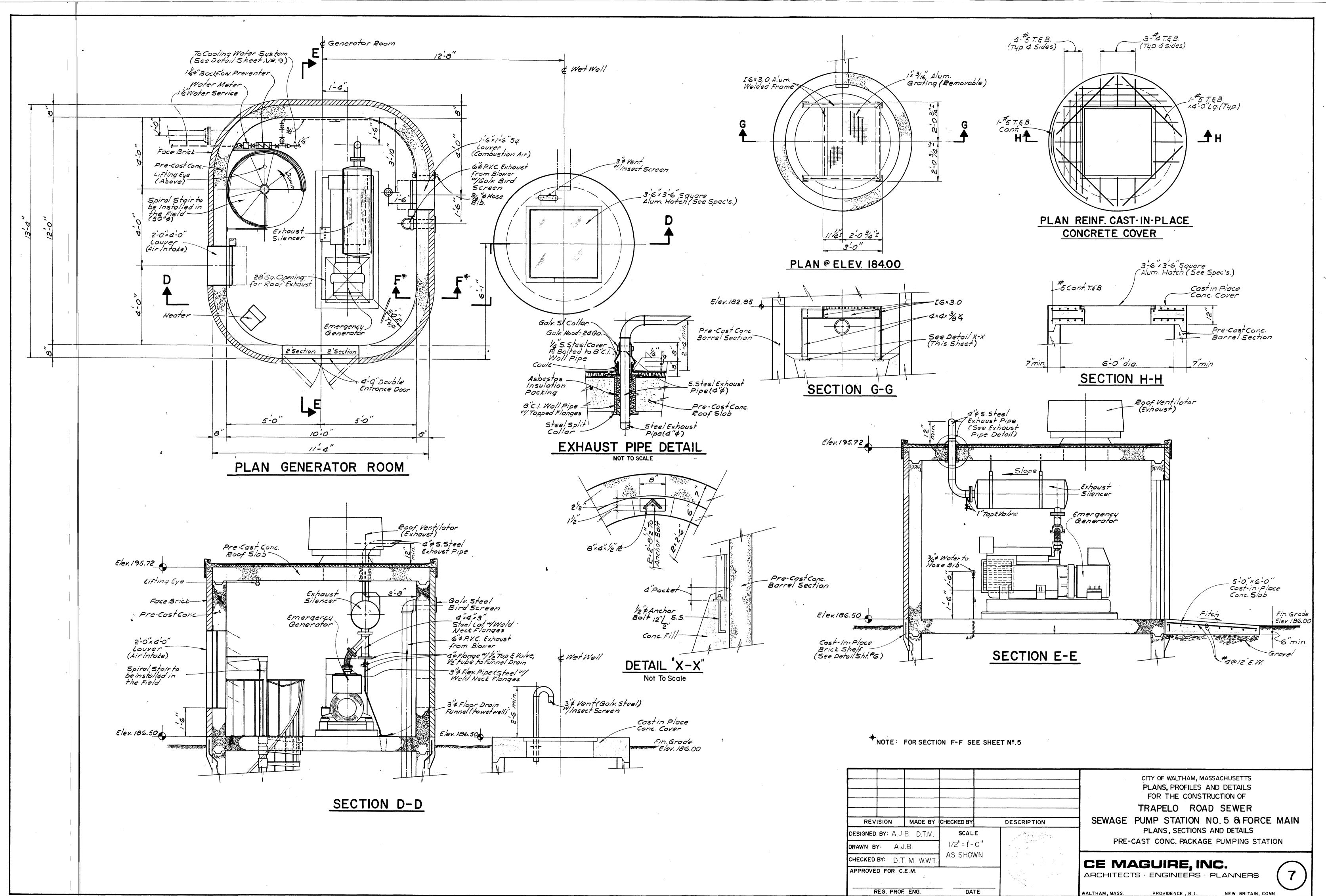
WALTHAM, MASS. PROVIDEN

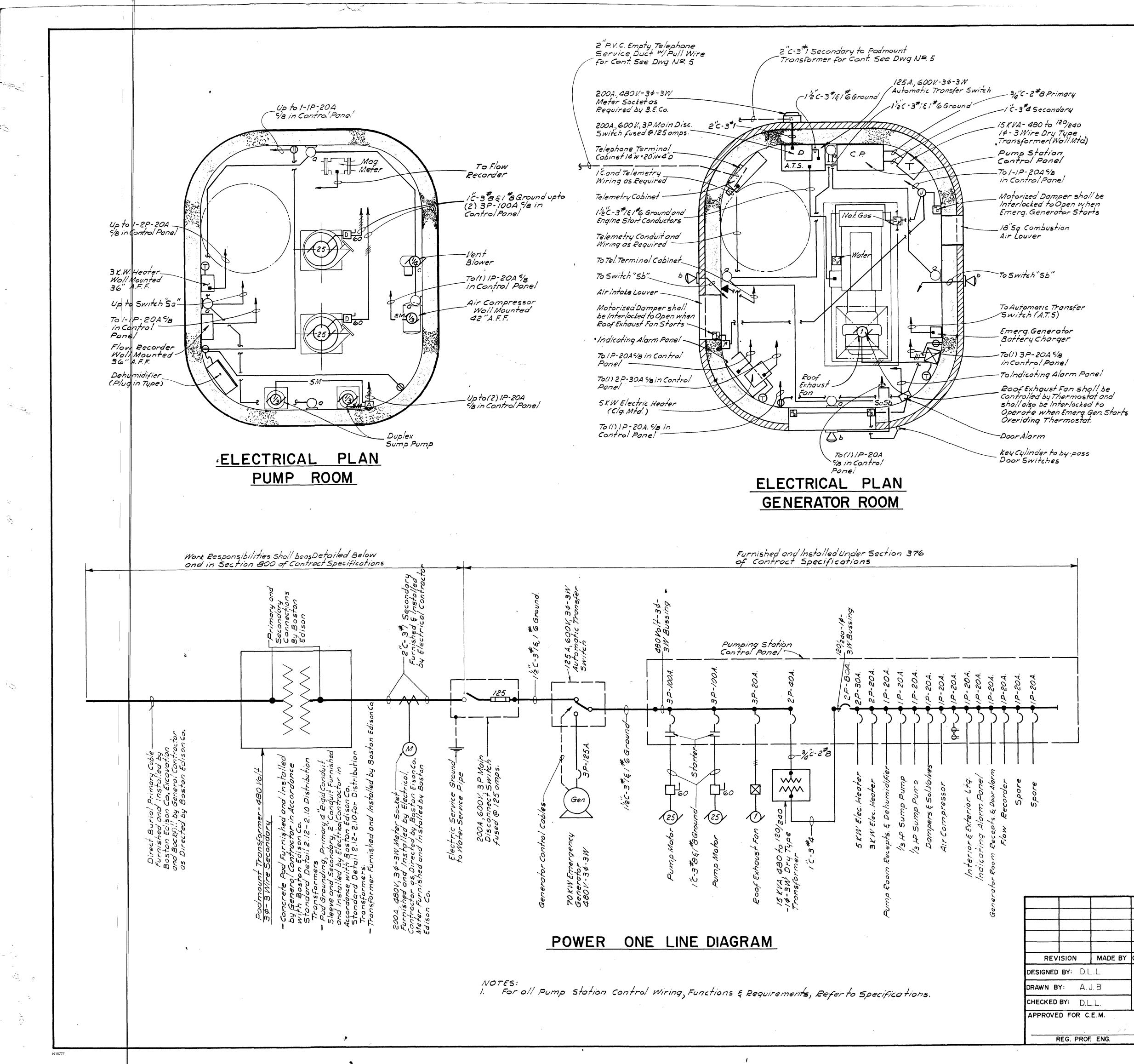
REG. PROF. ENG.

DATE

PROVIDENCE, R. I. NEW BRITAIN, CONN.







\square	Wall outlet and Vapor Tight incandesent lighting fixture with glass globe, guard, Junction box and 100 N'ott A-23 Lomp Appleton Cat. # V.P.W B2075G or approved equal- Mtd. 6-6" A.F.F.
\bowtie	Walloutlet and Weatherproof incandesent Flood light with wire guard, 150 Wott PAR 38 Lomp and surface Junction box and Cover-StorkoCatt CLD-1500 (Jompholder), #8-1550 (Guard), #27 (Box), #2 (Cover) mtd. as indicated on Plans.
€	Duplex receptocle - 2 pole, 3 wire, 20 amp., 125 volt grounding type mtd. 48'A.F.F Arrow Hort Cot.# 5739-5 or approved equal.
\bigcirc	Junction Box
So	Single Pole Switch 120volt, 20amp. mtd. 4-6"A.F.F Arrow Hart Cot.# 1991-lower Cose letter "a" denotes outlets & lights Controlled
5 <i>M</i>	Monual motor starter with thermal overload protection- Allen Bradley Cat #600-TAX 4-mtd. 4-6"A.F.F.
	Disconnect Switch-numeral denotes Switch size
A	Electric Alternator for sequencing two motors and for turning on second mator if First motor should fail or require additional motor capacity.
D _S	Door Alarm System switch, mtd. in door Jam -See Specifications
$\overline{\mathbf{T}}$	Thermosto!
\boxtimes	Magnetic Motor Storter with overlood heaters, relays and built in Hand-Off-Automatic Switch.
SV	solenoid value
	Hand - Off - Automatic Switch
/25/	Motor, numeral indicates Horsepower
Mo	Motorized Domper
•	Telephone outlet Box Complete with bushed hole Cover. mtd. 48" A.F.F.
	Denotes Electrical Connection
<i>///</i> \	³ /4" Rigid Steel conduit P.V.C. cooled run exposed- Diagonal lines indicate quantity of #12 AWG conductors, when more then two ore installed
	3/4"C-2#12 Homerun to Control Panel or as designeted
.A.F.F.	Above Finished Floor
- ⁻ /8	Circuit Breaker
	GENERAL NOTES
All electrical w unless other shall be deteri	viring and equipment is shown diagrammatically wise noted. Exact locations and methods of support mined by Pump Station Fabricator.

LEGEND

- 2. A seperate equipment grounding conductor shall be run to each mator. This conductor shall be installed in the same conduit as the mator feeder conductors and shall be sized in accordance with Article 250 of the National Electrical Code.
- 3. Emergency Generator and Automatic Transfer Switch shall be furnished complete including all starting circuits, Battery and Battery Charging conductors, interlocks, power cables, etc.

	DESCRIPTION	CITY OF WALTHAM, MASSACHUSETTS PLANS, PROFILES AND DETAILS FOR THE CONSTRUCTION OF TRAPELO ROAD SEWER SEWAGE PUMP STATION NO. 5 & FORCE MAIN ELECTRICAL
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To Scale		
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