To: All Plan Holders of Record

From: Verdantas LLC
For the Owner

Re: ***Addendum No. 1***
WPCD G1 BP07 Generator Replacement
City of Wheeling, WV

Date: October 19, 2026

This Addendum forms a part of the contract documents and modifies the original bidding documents dated October 2026 and all previous addenda, if any. Acknowledge receipt of this addendum in the space provided in the bid forms. Failure to do so may subject the bidder to disqualification.

PRE-BID CONFERENCE

Meeting Minutes and Sign in Sheet are enclosed.

SPECIFICATIONS

Replace
Specification Section 011100 SUMMARY OF WORK with the enclosed Section 011100A.

> Added scope for closure-in-place of an existing nominal 4,000 gallon regulated diesel-fuel underground storage tank and associated piping and installation of an associated new aboveground storage tank.

Replace
Specification Section 026500 REGULATED UNDERGROUND STORAGE TANK CLOSURE with the enclosed Section 026500A.

> Amended scope for the existing nominal 4,000 gallon regulated diesel-fuel underground storage tank to include only closure-in-place with removal of references to tank removal and contaminated-soil management.
> Unanticipated petroleum-contaminated soil, groundwater, free product, or corrective-action work beyond the defined closure-in-place scope shall proceed only after written authorization by the Owner and will be addressed under the Contract change-order provisions.

Replace Specification Section 012100 ALLOWANCES with the enclosed Section 012100A.

PLANS

Replace plan sheets G1-15E-05 and G1-15E-07 with the enclosed Revised plan sheets, G1-15E-05A and G1-15E-07A, respectively.

END OF ADDENDUM NO. 1

Enclosures

Z:\Project Files\WA-XZ\Wheeling\38010 - Wheeling WPCD Phase 4 Bond Imp. WW\Working\Bid Documents\Phase 02 - WPCD G1 BP-07 Generator Replacement\Addendum\Addendum 1\Addendum 01_v1.Doc

Meeting Minutes

To: **Attendees**

Subject: ***Wheeling Wastewater Treatment Plant - Generator Replacement Project***

Date: **October 14, 2026**

The agenda for the Pre-bid Conference scheduled for **October 14, 2026 at 10:30 a.m**. at the City of Wheeling WPCD Conference Room is as follows:

- Sign-In Sheet
- Introductions
- Introduction of the Project
- Question and Answers – Note all answers to question are only made final when documented by addendum.

Project Overview:

The WPCD Gate 1 Electrical Improvements BP07, Generator Replacement Project – Construction Contract includes the complete installation, integration, and commissioning of a fully furnished emergency power system including generators, fuel equipment, and switchgear.

Sealed bids will be received by the City of Wheeling, WV at the office of the City Manager, 1500 Chapline Street, Wheeling, WV 26003 until **2:30 p.m. on October 22, 2026** and will be opened and read immediately thereafter.

Project includes but is not limited to:

The Work under this Contract includes, but is not limited to:

- Installation of all equipment and accessories
- Structural modifications and supports (if any) required for installation
- Installation of mechanical piping systems, valves, and appurtenances
- Electrical work, including conduit, wiring, terminations, and integration with control panels
- Instrumentation installation and calibration
- System integration, testing, and commissioning
- Coordination with the Equipment Vendor and Manufacturer's field services
- Startup assistance and operator training support

Project is NOT subject to BABA requirements.

Discussion

- Question concerning what code to follow for the fuel piping?

Answer:

For above ground steel piping, provide Welding Fittings: ASME B16.9, seamless or welded. Refer to the specs section below:

2.2 ABOVEGROUND PIPING MATERIALS

A. Steel Pipe: ASTM A53/A53M, Black Steel, Schedule 40, Type E or S, Grade B.

1. Malleable-Iron Threaded Fittings: ASME B16.3, Class 150.

2. Forged-Steel Flanges and Flanged Fittings: ASME B16.5, Class 150, including bolts, nuts, and gaskets.

3. Welding Fittings: ASME B16.9, seamless or welded.

- Client would like a fence around fuel tank. See addendum for fence added to drawings.

- Underground storage tank is to be closed in place, not abandoned. See addendum for rewording.

- East Louvers on main road are close to overhead power lines. These will need to be coordinated with the utility company to safety blanket during work or option to avoid and work through north and south louvers.

MEETING SIGN-IN: 38010 – *Wheeling Wastewater Treatment Plant Generators Replacement*
DATE: October 14, 2026

NAME	COMPANY (REPRESENTING)	ADDRESS	CITY	ZIP	EMAIL ADDRESS
Amy Henson	Pillar Innovations				amyhenson@pillarinnovations.com
Chad V., Steve C.	BC Allen Co	15 Industrial Pk. Rd	Whitehall, WV		chadv@bcallenco.com: stevec@bcallenco,com
James McKeegan	Grae-Con Construction	880 Kingsdale Road	Steubenville, OH	43952	kspears@graecon.com
Scott Antonik	Grae-Con Construction	880 Kingsdale Road	Steubenville, OH	43952	
Bennett Drane, Corey Zachel, Lucas Skelly, Dan Pfeffer	Verdantas LLC	2001 Main Street, Suite 600	Wheeling, WV	26003	bdrane@verdantas.com
Dave Kovalski	ERB Electric	500 Hall St.	Bridgeport, OH	43912	dkovalski@erbelectric.com

SECTION 011100A - SUMMARY OF WORK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

B. Specification Section 026500 – Generator Replacement / Underground Storage Tank Work.

1.2 LOCATION OF THE PROJECT

A. The project is located in the City of Wheeling, Ohio County, West Virginia. The project site is at the City of Wheeling Water Pollution Control Division (WPCD) located at 2516 Main Street, Wheeling, WV 26003.

1.3 PROJECT SCOPE

A. The WPCD Gate 1 Electrical Improvements BP07, Generator Replacement Project – Construction Contract includes the complete installation, integration, and commissioning of a fully furnished emergency power system including generators, fuel equipment, and switchgear.

B. The Work under this Contract includes, but is not limited to

1. Installation of all equipment and accessories
2. Structural modifications and supports (if any) required for installation
3. Installation of mechanical piping systems, valves, and appurtenances
4. Electrical work, including conduit, wiring, terminations, and integration with control panels
5. Instrumentation installation and calibration
6. System integration, testing, and commissioning
7. Coordination with the Equipment Vendor and Manufacturer’s field services
8. Startup assistance and operator training support
9. UST management reflects a closure-in-place of an existing nominal 4,000 gallon regulated diesel-fuel underground storage tank and associated piping and installation of an associated new aboveground storage tank.

C. The Contractor will furnish, install, integrate, test, commission, and place into satisfactory operation the complete emergency power system shown and specified, including generators, generator accessories, fuel-system equipment, switchgear, automatic transfer equipment, controls, instrumentation, communications, supports, wiring, conduit, piping, and other appurtenances required for a complete and operational installation.

D. The Construction Contract includes the complete construction, installation, integration, testing, commissioning, and startup of the Generator Replacement Project in accordance with the Contract Documents.

1.4 DEFINITIONS

A. Contractor: The entity responsible for installation, construction, system integration, and commissioning under this Construction Contract.

B. Manufacturer: The entity that fabricated individual equipment components. Installation will comply with the manufacturer's requirements.

1.5 PROJECT DESCRIPTION

A. Scope of Work

1. The Work includes, but is not limited to the following:
    a. Field verification and documentation of existing electrical, structural, mechanical, fuel, control, and site conditions.
    b. Preparation and implementation of a detailed sequence of construction, temporary-power plan, outage plan, and final cutover plan.
    c. Provision, placement, connection, operation, fueling, maintenance, testing, and removal of temporary generation required to maintain designated emergency plant loads during construction.
    d. Selective demolition and lawful removal or Owner-directed salvage of existing generators, switchgear, controls, fuel equipment, piping, conduit, wiring, supports, housekeeping pads, and appurtenances shown or specified for removal. The Owner retains the right of first refusal for all equipment to retain as salvage or release to the contractor.
    e. Installation of new generators and associated starting, charging, cooling, combustion-air, exhaust, silencing, fuel, monitoring, and control systems.
    f. Installation of switchgear, automatic transfer equipment, distribution equipment, protective devices, grounding and bonding, raceways, conductors, terminations, controls, and communications.
    g. Structural modifications, equipment pads, housekeeping pads, supports, anchors, penetrations, sleeves, firestopping, patching, painting, and restoration.
    h. Integration with existing plant electrical systems, automatic transfer systems, SCADA, alarms, and other controls shown or specified.
    i. Manufacturer field services, startup, field testing, load-bank testing, functional testing, transfer testing, commissioning, operator training, and correction of deficiencies.
    j. Record drawings, operating and maintenance manuals, test reports, training documentation, spare parts, and closeout deliverables.
    k. For the existing generators, offer first right-of-refusal to the Owner for any equipment slated for salvage. Upon approval, salvage any usable components. If salvage is not possible, remove and dispose.
    l. Receiving and inventorying equipment delivered to the site.
    m. Inspection for damage upon delivery and notification to Owner
    n. Offloading, rigging, and placement of equipment.
    o. Installation of:

1) Generators
2) Exhaust Silencers
3) Fuel tank
4) Day tanks
5) Switchgear
6) Lighting

p. Installation of all associated fuel piping systems.
q. Electrical connections to all equipment and systems.
r. Integration of local and main control panels with plant control systems.
s. Installation of equipment supports, anchors, and appurtenances.
t. Coordination of all interfaces between equipment and building systems.
u. Testing, startup, and commissioning of the complete system.

B. Basis of Design

1. The Contractor will install the furnished system in accordance with:
   a. Approved submittals
   b. Manufacturer's requirements
   c. Contract Documents.

1.6 CONTRACT DOCUMENTS

A. The Contract Documents include the Project Manual and the Drawings.

B. The Construction Contract for the installation of the fully integrated packaged emergency electrical system consists of Contract Documents, including, but not limited to: Legal Notice, Table of Contents, Instructions to Bidders, Forms to be completed with the Bid, Contract Forms, General Conditions, Supplementary Conditions, Specific Project Requirements, and the technical specifications, including:

1. Division 01 – General Requirements.
2. Division 03 – Concrete
3. Division 26 – Electrical
4. Division 33 – Control Systems

C. In general, these Specifications describe the work to be performed by the various trades, other than work specifically excluded. It will be the responsibility of the Contractor and Subcontractors to perform all work incidental to their trade, whether or not specific mention is made of each item, unless such incidentals are included under another Item.

D. It is advised that the Contractor and all Subcontractors familiarize themselves with the contents of the complete Specifications, particularly for the trades preceding, following, related or adjacent to their work.

1.7 DRAWINGS

A. The drawings define the Work and include installation details for all equipment systems, piping, mechanical, electrical, and instrumentation integration.

B. The Contract Drawings contain a detailed description of work to be furnished for the proposed City of Wheeling WPCD, WV – Generator Replacement Project. The scope of work is divided into the Series, presented, and identified under “Sheet Name”. The project includes the following improvements:

1. Series 15M: Mechanical – Sheets 15M-XX, include mechanical schedules, legends and notes; the mechanical demolition plans; and proposed mechanical equipment plans.
2. Series 15E: Electrical – Sheets 15E-XX
3. Series 15I: Instrumentation – Sheets 15I- XX.

C. The Contractor will verify all dimensions and field conditions before installation.

1.8 SCHEDULES AND SEQUENCE OF CONSTRUCTION

A. The Contractor will prepare and submit detailed construction schedules in accordance with the General Conditions. Schedules will identify all phases of the Work from mobilization through Final Acceptance and will include all milestones, critical path activities, coordination requirements with the Owner and Vendor, and all operational impacts.

B. Interruption of existing utility services will be minimized and will be limited to times approved by the Owner.

C. Work will not commence until all labor, materials, and equipment are available, and Owner-furnished components required for the scheduled activities are available.

D. The Contractor will incorporate into the construction schedule all responsibilities defined, including:

1. Demolition and preparatory work
2. Equipment ordering and lead times
3. Installation of temporary rental generator and temporary distribution equipment
4. Removal of existing louvers, generators, and switchgear
5. Installation of new equipment
6. Electrical conduit, conductors, cable, and terminations
7. Mechanical exhaust ducting, fuel piping, valves, and associated rated fittings
8. Low voltage control cabling and programming
9. Startup, testing, commissioning, and Coordination with Vendor-provided field services

E. The schedule will clearly identify all tasks assigned to the Contractor under the Construction Contract and all tasks performed by the Vendor under the Equipment Procurement Contract.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Comply with Section 016600, Product Storage and Handling Requirements.

B. The Contractor will:

1. Verify equipment condition upon delivery
2. Provide proper storage and protection
3. Install equipment in accordance with the Manufacturer’s requirements.

C. The Contractor-Furnished Materials: The Contractor will furnish all materials not specifically identified as Owner-furnished, including:

1. Piping and fittings
2. Supports and anchors
3. Conduit, wiring, and terminations
4. Grouting and installation materials
5. Miscellaneous hardware and accessories.

2.2 STORAGE AND HANDLING

A. The Contractor will be responsible for:

1. Receiving equipment transferred from the manufacturer's storage
2. Protecting equipment from damage or environmental exposure
3. Maintaining storage conditions in accordance with Manufacturer requirements

B. Responsibility for equipment transfers to the Contractor upon delivery to the site.

2.3 CONTRACTOR USE OF SITE

A. Electrical outages and transfer interruptions will not occur without the Owner’s written authorization. The Contractor will submit a detailed Outage and Cutover Plan for each interruption. The plan will identify affected equipment and processes, anticipated interruption duration, temporary-power provisions, personnel and equipment required, switching sequence, lockout/tagout boundaries, contingency actions, abort criteria, restoration sequence, and verification testing. Unless otherwise approved in writing, outage requests will be submitted not less than 14 calendar days before the proposed outage. Approval of an outage request does not relieve the Contractor of responsibility for maintaining the designated plant systems and loads.

B. The maximum permitted interruption for each load or system will be as indicated in the approved outage schedule. A generalized four-hour allowance will be permitted for interruptions, however, that allowance will not be interpreted as permission to interrupt

any critical plan load for four hours without approval and planning. Request for a partial shutdown will be submitted to the City no less than 48 hours prior to the requested shutdown period.

C. The City of Wheeling WPCD facility operations staff normally works from 7:00 AM to 3:00 P.M. Monday through Friday, at which time the main entrance gate is secured. The Contractor will coordinate in advance with the Owner to obtain site access for deliveries, start-up activities, or other work occurring outside normal operating hours.

PART 3 - EXECUTION

3.1 INSTALLATION REQUIREMENTS

A. Install equipment in strict accordance with the manufacturer's instructions.

B. Field verify dimensions and condition prior to installation.

C. Coordinate all trades and interfaces

D. Provide alignment, leveling, anchoring, and grouting.

3.2 PROTECTION OF WORK AND IMPROVEMENTS

A. Contractor will protect the property of the Owner, existing improvements, and the Work installed by the Contractor and others from abuse, damage, dust, debris, and other objectionable materials resulting from construction activities.

B. Contractor will provide suitable covers, partitions, or other dust and fume containment devices to suit construction operations.

C. Contractor will keep property, existing improvements, and the Work, including structures, piping, fittings, and accessories, free from dirt and foreign matter at all times.

D. Contractor will provide temporary plugging of openings, holes, and pipe ends that are existing or that the Contractor has installed.

E. Property, improvements, and Work damaged by Contractor will be repaired or replaced by Contractor to the satisfaction of the Owner.

3.3 TESTING AND COMMISSIONING

A. The Contractor will:

1. Perform pre-operational inspections
2. Assist the manufacturer or manufacturer’s authorized service representative with startup.
3. Perform function and performance testing
4. Correct deficiencies identified during testing.

5. Conduct operator instruction and training.

3.4 ALLOWANCE

A. Temporary power and rental-generator requirements are specified in Section 012100, Allowances, and the applicable temporary-power and electrical sections.

END OF SECTION 011100A

SECTION 012100A - ALLOWANCES

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes administrative and procedural requirements governing allowances.

1. Selected materials and equipment are specified in the Contract Documents by allowances. In some cases, these allowances include installation. Allowances have been established in lieu of additional requirements and to defer selection of actual materials and equipment to a later date when additional information is available for evaluation. If necessary, additional requirements will be issued by Change Order.

B. This Section governs the stipulated lump-sum allowance for temporary rental-generator service.

Temporary Rental Generator Allowance: Include a stipulated allowance of $31,000 in the Contract Sum for temporary rental-generator service required during replacement and commissioning of the permanent emergency-power system.

1. This allowance shall be used only upon written direction by the Owner through the procedures established in the Contract Documents.

2. The allowance includes only the rental supplier’s invoiced charges specifically approved by the Owner. Unless expressly included in the written allowance authorization, the Contractor’s labor, supervision, temporary conductors, terminations, grounding, protection, fuel-system connections, setup, testing, maintenance, fuel, removal, and restoration shall be included in the Contractor’s base bid.

3. Provide a rental generator having not less than the capacity indicated in the approved sequence-of-construction plan. The presently anticipated nominal capacity is 750kW; the Contractor shall verify suitability for the connected loads, motor starting, voltage drop, frequency, protective-device coordination, and ATS operation before mobilization. A temporary switchboard will be required to be fed from the temporary generator in order to feed the (4) existing ATS’s while the existing gear and generators are removed so that new equipment can be installed. Peak loading observed over 30 days for the transfer switches are as follows:

ATS-1 @ 613A, ATS-2 @ 219A, ATS-3 @ 221A, and ATS-4 @ 290A.

4. The rental period shall begin only upon written Notice to Proceed with temporary-power deployment issued by the Owner. Rental charges incurred before that authorization are not chargeable to the allowance.

1.3 SELECTION AND PURCHASE

A. At the earliest practical date after award of the Contract, advise the Engineer of the date when the final selection and purchase of each product or system described by an allowance must be completed to avoid delaying the Work.

B. At the Engineer's request, obtain proposals for each allowance for use in making final selections. Include recommendations that are relevant to performing the Work.

C. Purchase products and systems selected by the Engineer from the designated supplier.

1.4 SUBMITTALS

A. Submit proposals for purchase of products or systems included in allowances, in the form specified for Change Orders.

B. Submit invoices or delivery slips to show the actual quantities of materials delivered to the site for use in fulfillment of each allowance.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 EXAMINATION

B. Examine products covered by an allowance promptly upon delivery for damage or defects.

3.2 PREPARATION

B. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work.

END OF SECTION 012100A

SECTION 026500A - REGULATED UNDERGROUND STORAGE TANK CLOSURE

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings, Bid Documents, General and Supplementary Conditions, and other Contract Documents apply to the Work of this Section.

1.2 SUMMARY

A. This Section includes permanent closure of the existing active regulated diesel-fuel underground storage tank (UST), associated piping and appurtenances, closure assessment activities, regulatory coordination and reporting, and closure-in-place or removal as specified.

1. The existing UST is a nominal 4,000-gallon regulated diesel-fuel tank. Contractor shall consider the tank capacity, associated excavation requirements, and restoration impacts for closure and removal activities.

B. Provide complete permanent regulatory closure of the existing nominal 4,000-gallon active regulated diesel-fuel underground storage tank system. The work includes coordination and information required for regulatory notifications; tank-system shutdown; removal and lawful management of remaining product, water, sludge, and cleaning residues; draining of connected piping; vapor removal; purging or inerting; tank cleaning; closure of associated product, fill, vent, return, monitoring, and other connected piping; closure-site assessment; field screening and sampling; laboratory analyses; placement of approved inert fill to eliminate internal voids; surface and site restoration; disposal documentation; record drawings; and preparation of a complete closure-report package. The Contractor shall include all labor, supervision, equipment, materials, permits and contractor certifications, transport, testing, documentation, and incidentals required for a complete and compliant closure-in-place.

- Perform the work in accordance with applicable West Virginia UST requirements, 33 CSR 30, and 40 CFR Part 280, including Subpart G, as applicable to permanent closure.

- Retain a current WVDEP-certified Class B worker to be physically present and to perform or supervise regulated closure activities, including vapor removal, purging or inerting, cleaning, and subsurface sampling.

- Provide the Owner and Engineer all contractor, schedule, tank-system, certification, and closure-method information needed for the Owner/operator to submit the required advance notice. Do not begin physical closure until the Owner confirms that the applicable notice period has been satisfied or waived by WVDEP.

- Before mobilization, submit a UST Closure Work Plan describing health and safety controls, tank and piping cleaning, vapor monitoring, inerting, waste profiling and disposal, closure-in-place sequence, sampling approach, laboratory methods, temporary containment, restoration, release response, and documentation.

- Coordinate the closure-site assessment and the sampling locations for closure in place with the assigned WVDEP Tanks representative before sampling. Closure in place does not eliminate the required site assessment.

- Use a laboratory certified by the WVDEP Division of Water and Waste Management. For diesel-fuel closure samples, include the analytical parameters required by current WVDEP guidance, including BTEX by SW-846 Method 8260, PAHs by SW-846 Method 8270, and RCRA metals by SW-846 Method 6010 when applicable. Use proper preservation, chain of custody, and holding times.

- If groundwater or excavation water is encountered, containerize, characterize, transport, treat, or dispose of it as required. Do not discharge contaminated water without the required authorization. Immediately stop affected work, secure the area, and notify the Owner and Engineer upon evidence of a release, including petroleum outside the tank system, staining, odor, free product, contaminated groundwater, or analytical exceedance. The Owner/operator will make required regulatory notifications. Do not perform additional delineation or corrective action without written authorization, except emergency actions necessary to protect health, safety, and the environment.

- For any excavated material, provide lined and covered temporary containment with runoff controls. Do not return material to the excavation unless documentation demonstrates that it is acceptable for reuse under applicable requirements.

- After cleaning and regulatory assessment activities, fill the tank completely with an approved inert material using a placement method that eliminates voids. Document the fill material, quantity, delivery records, and placement method. Permanently close or remove accessible associated piping and appurtenances as directed by the Contract Documents and accepted by the regulatory authority.

- Prepare a complete draft WVDEP closure-report package, including tank and piping information, waste and product disposition records, laboratory reports, chains of custody, analytical data, sample descriptions and depths, site sketch and sampling locations, photographs, inert-fill documentation, and record drawings. Submit the draft to the Engineer for review and provide corrections required for Owner submission.

- Final payment for the UST closure portion of the Work is contingent upon delivery of a complete closure package acceptable to the Owner and Engineer. Regulatory acceptance by WVDEP remains subject to agency review and is not controlled by the Contractor.

C. The completed Work shall be suitable for acceptance by the Owner and applicable regulatory authorities. Contractor shall provide incidental labor, materials, equipment, excavation, temporary controls, and documentation necessary for complete closure.

1.3 REFERENCES

A. Comply with the latest applicable editions of the following:

1. 40 CFR Part 280.

2. West Virginia Code and 33 CSR 30, Underground Storage Tank Regulations.

3. API Recommended Practice 1604.

4. API Recommended Practice 2016.

5. WVDEP underground storage tank closure guidance and required closure forms.

B. Where requirements conflict, promptly notify the Engineer and comply with the more stringent requirement unless directed otherwise in writing by the authority having jurisdiction.

1.4 REGULATORY COORDINATION

A. Owner remains the regulatory owner of record unless otherwise established in the Contract Documents.

B. Contractor shall provide information and assistance necessary for regulatory notifications and shall coordinate the Work with the Owner, Engineer, and WVDEP.

C. Do not begin permanent closure activities until required notices have been submitted and applicable waiting periods, inspections, and authorizations have been satisfied.

D. Cooperate with WVDEP and other authorized inspection personnel. Schedule closure work to permit required observations and inspections.

1.5 QUALITY ASSURANCE

A. UST closure activities shall be performed under the supervision of a currently certified WVDEP Class B UST worker.

B. Use personnel experienced in regulated UST closure, petroleum-waste management, excavation safety, vapor monitoring, sampling, and documentation applicable to the Work.

C. Use a laboratory acceptable under applicable WVDEP requirements for required analyses.

1.6 SUBMITTALS

A. Submit the following before commencing closure activities:

1. Current WVDEP Class B certification documentation.

2. Closure work plan and sequence.

3. Site-specific health and safety plan.

4. Soil and groundwater sampling plan.

5. Waste handling, transportation, and disposal plan.

6. Identification and acceptance documentation for proposed disposal and recycling facilities.

7. Laboratory qualifications or accreditation information.

8. Product data for inert fill material proposed for closure in place.

9. Calibration records or certifications for combustible-gas and oxygen-concentration instruments.

B. Submit closeout documents required by Paragraph 3.10.

1.7 JOB CONDITIONS

A. Utilities: Determine locations of underground utilities before excavation and coordinate protection or relocation in accordance with Contract requirements and applicable law.

B. Work Area: Confine operations, staging, stockpiling, excavation, and restoration to approved work areas and maintain Owner operations and emergency access.

C. Site Access: Provide access to the Owner, Engineer, and regulatory personnel for observation and inspection.

D. Fire and Explosion Prevention: Keep ignition sources away from the work area. Use suitable bonding, grounding, ventilation, and explosion-protected equipment. Smoking and open flames are prohibited within 100 feet of tank, excavation, and stockpile areas.

E. Excavation Protection: Provide barriers, barricades, and other controls necessary to prevent unauthorized entry and protect persons and property.

1.8 PROJECT COORDINATION

A. Assign a qualified project coordinator to serve as liaison among Contractor, Owner, Engineer, certified UST personnel, laboratory, haulers, disposal facilities, and regulatory authorities.

B. Maintain daily records of closure activities, field measurements, inspections, samples, waste shipments, and significant incidents.

1.9 AUTHORITY TO STOP WORK

A. Owner or Engineer may stop Work when hazardous conditions or noncompliance with the Contract Documents or applicable requirements is observed. Resume Work only after corrective measures are accepted and written authorization to proceed is provided. Contractor bears costs attributable to its unsafe practices or noncompliance.

PART 2 – PRODUCTS

2.1 INERT FILL MATERIAL

A. For closure in place, provide clean sand, flowable fill, foam fill, bentonite grout, or other inert fill accepted by the Engineer and regulatory authority.

B. Fill material shall be compatible with the tank and site conditions and capable of completely filling tank voids without leaving unsupported spaces.

2.2 SPILL PREVENTION AND RESPONSE MATERIALS

A. Provide drip pans, petroleum-compatible absorbents, non-sparking tools where required, overpack or storage containers, labeled drums, and other materials necessary to prevent and control releases during piping disconnection, tank cleaning, excavation, or removal.

2.3 MONITORING EQUIPMENT

A. Provide calibrated combustible-gas and oxygen-concentration instruments appropriate for tank atmosphere and excavation monitoring. Maintain instruments in operating condition throughout the Work.

PART 3 – EXECUTION

3.1 PRE-CLOSURE ACTIVITIES

A. Conduct preliminary site review, utility coordination, regulatory coordination, and preconstruction meeting before shutdown.

B. Remove fuel, sludge, tank bottoms, and other recoverable materials. Drain associated piping without spilling product. Containerize, label, transport, and dispose of recovered materials lawfully.

C. Disconnect or isolate the UST system from service and secure piping and appurtenances against leakage or unauthorized use.

3.2 PURGING, CLEANING, AND ATMOSPHERIC MONITORING

A. Purge tank vapors and clean the tank interior in accordance with approved procedures and applicable API safety guidance.

B. Vent displaced vapors safely and prevent accumulation of flammable vapors at grade, in excavations, buildings, sewers, or other confined areas.

C. Continuously or regularly monitor the tank atmosphere and surrounding work area, as appropriate to the operation, for combustible vapors and oxygen concentration. Maintain a combustible-gas indicator in service during tank handling and removal activities.

D. Do not perform cutting, opening, entry, lifting, or removal until atmospheric conditions comply with the approved health and safety plan and applicable requirements.

E. Maintain tank-cleaning and atmospheric-monitoring records.

3.3 CLOSURE ASSESSMENT

A. Perform closure assessment and collect soil and groundwater samples as required by applicable regulations, WVDEP closure guidance, and the approved sampling plan.

B. Sampling shall be supervised by certified personnel. Preserve sample integrity, complete chain-of-custody documentation, and submit samples to the accepted laboratory.

C. Document sample locations, field observations, analytical methods, results, and conditions encountered.

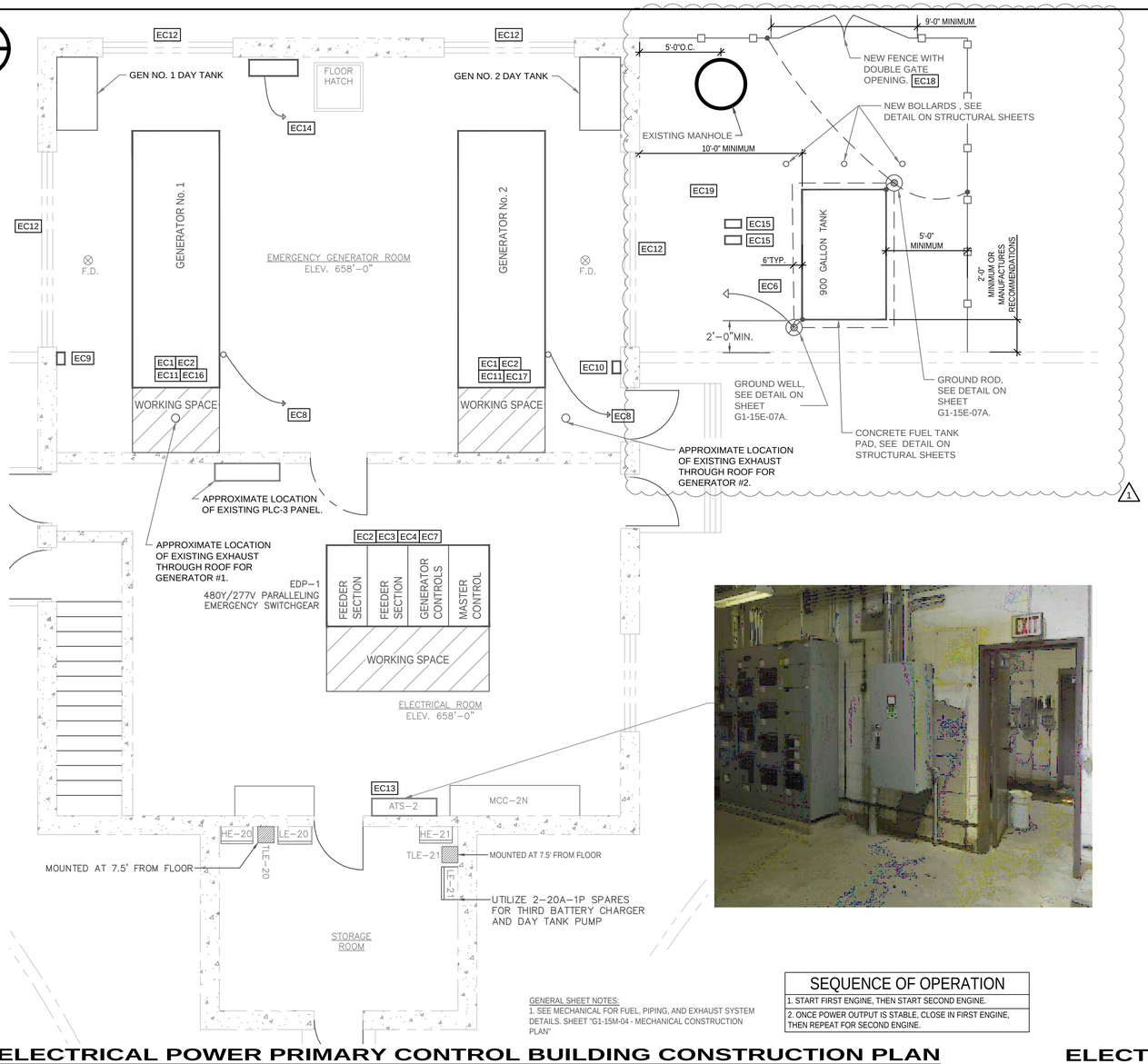
3.4 RELEASE DISCOVERY

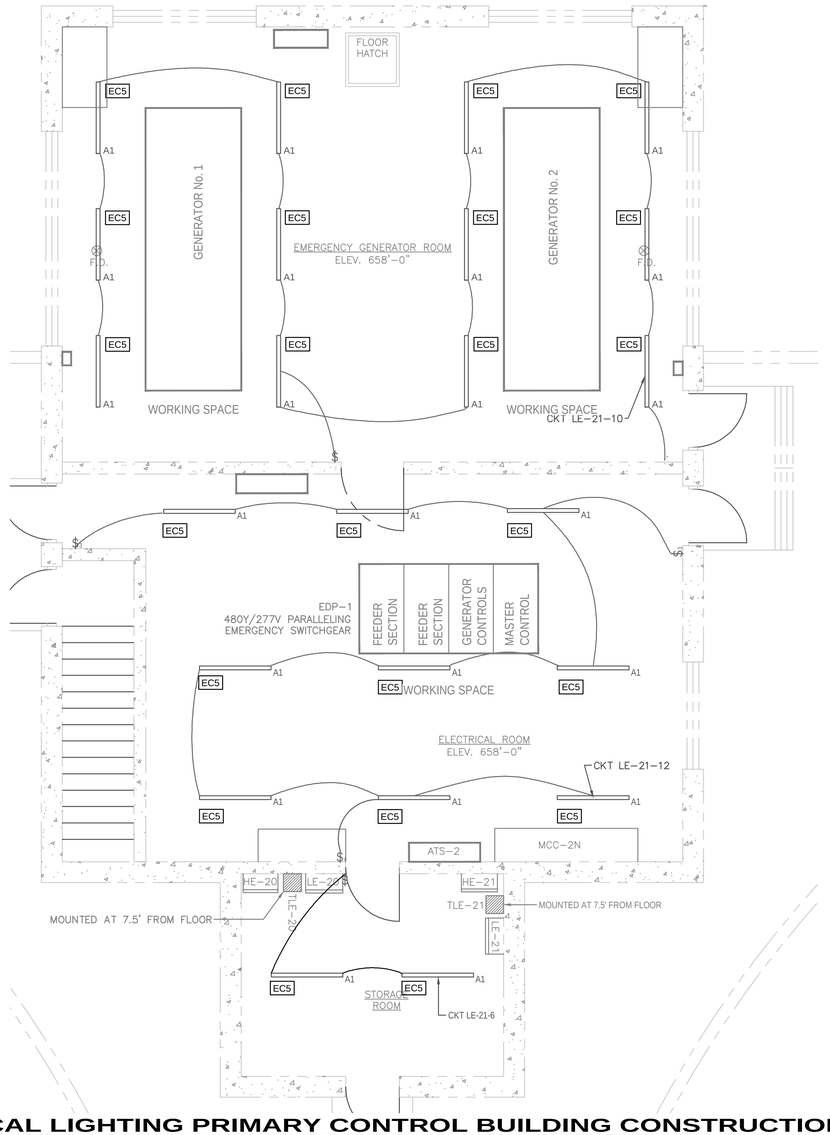
A. Immediately notify Owner and Engineer upon discovery of contaminated soil, free product, contaminated groundwater, petroleum vapor impacts, or analytical exceedances.

B. Protect and preserve affected areas pending direction. Do not undertake remediation beyond authorized Contract Work without written authorization.

C. Implement immediate measures required to protect health, safety, property, and the environment, and document those measures.

END OF SECTION 026500A





SEQUENCE OF OPERATION

1. START FIRST ENGINE, THEN START SECOND ENGINE.
2. ONCE POWER OUTPUT IS STABLE, CLOSE IN FIRST ENGINE, THEN REPEAT FOR SECOND ENGINE.

GENERAL SHEET NOTES:
1. SEE MECHANICAL FOR FUEL, PIPING, AND EXHAUST SYSTEM DETAILS. SHEET "G1-15M-04 - MECHANICAL CONSTRUCTION PLAN"

ELECTRICAL POWER PRIMARY CONTROL BUILDING CONSTRUCTION PLAN

SCALE: 1/4" = 1'-0"

ELECTRICAL LIGHTING PRIMARY CONTROL BUILDING CONSTRUCTION PLAN

SCALE: 1/4" = 1'-0"

ELECTRICAL CONSTRUCTION NOTES:

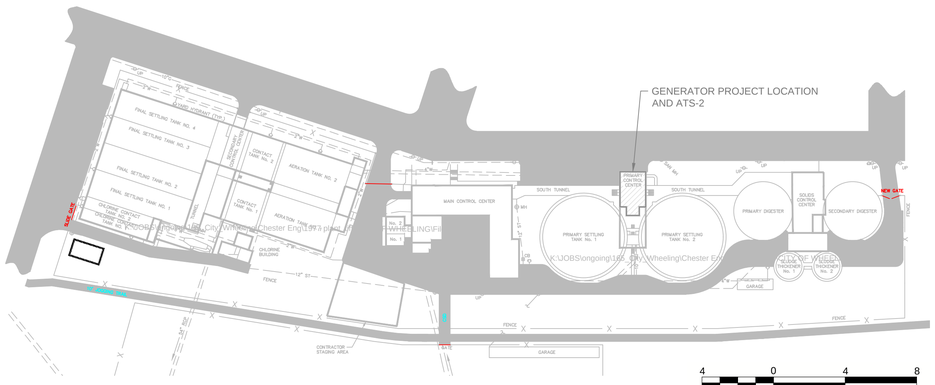
TAG	DESCRIPTION
EC1	PROVIDE NEW 500 KW DIESEL GENERATOR, 480Y/277V, 3 PHASE, 4 WIRE. EC SHALL FURNISH AND INSTALL COMPLETE ASSEMBLY. NEW GENERATOR SHALL HAVE MASTER CONTROLLER RUN SIGNAL AUX CONTACTS AND CONNECTED TO EXISTING POWERED LOUVERS RELAY SO LOUVERS OPEN UPON GENERATOR RUN COMMAND.
EC2	PROVIDE NEW GENERATOR FEEDERS. EACH FEEDER SHALL CONSIST OF (4)-600 KCMIL CONDUCTORS AND (1) #3/0 GROUND CONDUCTOR IN 4" CONDUIT. PROVIDE (2) FEEDER SETS, ONE FOR EACH GENERATOR. EXISTING GENERATOR FEEDER CONDUITS MAY BE REUSED WHERE ACCEPTABLE FOR REUSE.
EC3	PROVIDE NEW SWITCH GEAR. GEAR SHALL BE RATED 3000A, 480Y/277V, 3 PHASE, 4 WIRE, 35KAIC.
EC4	EXISTING FEEDERS FROM ATS-1, ATS-2, ATS-3, AND ATS-4 SHALL BE HIGH POTENTIAL TESTED PRIOR TO REUSE. UPON SUCCESSFUL TEST RESULTS, RE-TERMINATE FEEDERS AT NEW SWITCH GEAR CIRCUIT BREAKERS. FEEDERS SHALL MEET MANUFACTURER'S TESTING SPECIFICATIONS.
EC5	FURNISH AND INSTALL NEW LIGHT FIXTURES AND SWITCHING DEVICES. REFER TO LIGHT FIXTURE SCHEDULE FOR FIXTURE TYPE, MOUNTING REQUIREMENTS, AND OTHER INFORMATION. COORDINATE INSTALLATION WITH BUILDING OWNER. LIGHT SWITCHES SHALL BE RATED FOR CONDITIONS AND APPLICATION.
EC6	GND NEW DIESEL TANK TO NEW 3/4" X 10'-0" COPPERWELD GND ROD. #4/0 BARE GND BOND THIS TO EXISTING GND SYSTEM AND NEW FENCE IN (2) LOCATIONS.
EC7	BOND NEW GEAR TO EXISTING GROUND SYSTEM WITH (1) 4/0 AWG COPPER GROUNDING CONDUCTOR.
EC8	BOND GENERATOR ENGINE FRAME TO EXISTING PERIMETER GROUNDING SYSTEM WITH NEW 4/0 AWG BARE COPPER GROUNDING CONDUCTOR. ROUTE CONDUCTOR THROUGH GENERATOR PAD AS REQUIRED.
EC9	EC TO PROVIDE NEW BATTERY CHARGER FOR NO. 1 GENERATOR. CONNECT TO PANEL LE-21-20. SEE PANEL SCHEDULE FOR SIZING.
EC10	EC TO PROVIDE NEW BATTERY CHARGER FOR NO. 2 GENERATOR. CONNECT TO PANEL LE-21-28. SEE PANEL SCHEDULE FOR SIZING.
EC11	EC TO PROVIDE NEW CONTROL CABLES FROM EACH GENERATOR MASTER CONTROLLER TO EXISTING ATS-1,2,3,4 AND SCADA PLC. TERMINATE ALL CONTROL WIRING AS REQD.
EC12	EXISTING POWERED LOUVER ARE RELAYED ON BY GENERATOR RUN SIGNAL FROM MASTER CONTROLLER. RECONNECT TO NEW GENERATOR RUN SIGNAL CONTACT IN NEW CONTROLLER.
EC13	EC TO PROVIDE NEW CONTROL CABLES FROM GENERATOR MASTER CONTROLLER TO EXISTING ATS-1,2,3, 4 AND PLC-3. TERMINATE ALL CONTROL WIRING AS REQUIRED PER MANUFACTURER.

ELECTRICAL CONSTRUCTION NOTES:

TAG	DESCRIPTION
EC14	GENERATOR FUEL PUMP CONTROL PANEL. EC SHALL COORDINATE WITH VENDOR AND PROVIDE PANEL. PANEL SHALL INCLUDE A 15A BRANCH DEVICE, NEMA SIZE 0 CONTACTOR, AND THERMAL OVERLOAD FOR EACH FUEL PUMP. OVERLOAD SHALL BE SIZED TO MOTOR NAMEPLATE FLA. EC SHALL PROVIDE POWER FOR PANEL FROM LE-21-19, SEE PANEL SCHEDULE FOR SIZING. PANEL COMPONENTS, RATINGS, AND FEEDER SIZE SHALL BE CONFIRMED WITH VENDOR PRIOR TO ORDERING.
EC15	EC TO PROVIDE POWER FROM GENERATOR FUEL PUMP CONTROL PANEL TO NEW 1/2 HP, 120V, 1P TRANSFER PUMPS SERVING NO. 1 AND NO. 2 GENERATORS. PROVIDE A SEPARATE CIRCUIT FOR EACH PUMP, 2#12AWG & 1#12AWG IN ¾" CONDUIT. PROVIDE DISCONNECTING MEANS AT EACH MOTOR PER NEC 430.120(B). COORDINATE FINAL TERMINATIONS WITH VENDOR.
EC16	EC TO PROVIDE NEW CIRCUIT TO THE JACKET HEATER AT GENERATOR NO. 1 FROM PANEL LE-21-14 & 16. EC SHALL PROVIDE DISCONNECTING MEANS WITHIN SIGHT OF HEATER PER NEC 422.31(B). CIRCUIT SIZE AND HEATER ELECTRICAL CHARACTERISTICS SHALL BE CONFIRMED WITH VENDOR. COORDINATE FINAL TERMINATIONS WITH GENERATOR VENDOR.
EC17	EC TO PROVIDE NEW CIRCUIT TO THE JACKET HEATER AT GENERATOR NO. 2 FROM PANEL LE-21-32 & 34. EC SHALL PROVIDE DISCONNECTING MEANS WITHIN SIGHT OF HEATER PER NEC 422.31(B). CIRCUIT SIZE AND HEATER ELECTRICAL CHARACTERISTICS SHALL BE CONFIRMED WITH VENDOR. COORDINATE FINAL TERMINATIONS WITH GENERATOR VENDOR.
EC18	NEW CHAIN-LINK SECURITY FENCE, EC SHALL PROVIDE 8'-0" TALL SECURITY FENCING AROUND NEW FUEL TANK. FENCE SHALL BE SET BACK FROM TANK TO ALLOW ACCESS. COORDINATE FINAL LOCATION IN FIELD WITH OWNER. FENCE SHALL BE BONDED IN A MINIMUM OF TWO PLACES ONE CONNECTION ON EACH SIDE OF THE GATE. FENCE POSTS SHALL BE SET NO FARTHER THAN 10' APART. SEE DETAIL ON SHEET G1-15E-07A - ELECTRICAL DETAILS AND SCHEDULES. GATE OPENING SHALL BE NO LESS THAT 8'-0" WIDE.
EC19	NEW CRUSHED STONE, EC SHALL PROVIDE/COORDINATE REMOVAL OF TOPSOIL AND PROVIDE CRUSHED SCREED STONE INSIDE FENCED AREA AND BETWEEN FENCE GATES AND ROAD MINIMUM OF 9'-0" WIDE. ALL AREAS WITH STONE SHALL BE IN DEPTH 6" OF STONE MINIMUM. STONE SHALL BE ODOT #57. PROVIDE NON-WOVEN GEOTEXTILE FABRIC (MIRAFI 140N OR EQUAL) BENEATH STONE IN YARD, MIRAFI 500X UNDER DRIVE WAY.

1

LEGEND
NEW
EXIST.



SITE KEY PLAN
SCALE: NO SCALE

DRAWING SCALE 1/4"=1'-0"

verdantas
2001 MAIN STREET, SUITE 202
WHEELING, WV 26003-2855
TEL. 304.232.2784

TROY L. DELZER, PE
TROY L. DELZER REGISTERED 24338 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER
9-18-2026
P.E. #24338
STATE: WV

DESIGNED BY	CZ
DRAWN BY	DJP/HJC
CHECKED BY	CZ
PROJECT NO.	38010

No.	REVISION	CK'D BY DATE
1	ADDED FENCING, UPDATED NOTES, AND CALLED FOR STONE.	DJP/CZ 10/15/2026
-	ISSUED FOR ADDENDUM 1	

WHEELING-OHIO-WV
WHEELING WPCD PHASE 4 BOND IMP. WW
WPCD G1 BP07 GENERATOR REPLACEMENT
BOND PACKAGE 2025, AMENDMENT 4
ELECTRICAL CONSTRUCTION PLAN

DATE 09-18-2026
SCALE NO SCALE
SHEET G1-15E-05A

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PANELBOARD: 'LE-21' EXISTING

MCB RATING: 125A | MAINS RATING: 125A | LOCATION: GATE-1 | VOLTS: 120/208 | PHASE: 3 | WIRES: 4 | A.I.C. RATING: 10KA | MOUNTING: SURFACE | NEMA 1 ENCLOSURE

CKT	CIRCUIT DESCRIPTION	WIRE	G.	C.	TRIP	POLE	A	B	C	POLE	TRIP	C.	G.	WIRE	CIRCUIT DESCRIPTION	CKT
1	4-REC. (POLE LIGHT) S/S TUNNEL				20	1	0.0			1	20				3- REC. STOR & SETL	2
3	3- REC. N/S TUNNEL				20	1		0.0		1	20				REC BY SCUM PUMP	4
5	2-REC. PUMP GALLERY				20	1			0.0	1	20				LTS STOR RM P102 - OUTSIDE REC	6
7	EXIT LTS PRI CONT. CTR				20	1	0.0			1	20				2-STOR RM P102-OUTSIDE REC	8
9	BAD				20	1		0.0		1	20				LTS GEN RM P101	10
11	LTS-STAIR 23 & PUMP GALLERY				20	1			0.0	1	20				LTS SW GEAR RM P100	12
13	1 REC.-SW. GEAR RM 3 REC GEN RM				20	1	0.0			1	20				DAY TANK-S	14
15	1 REC. SW GEAR RM NORTH WALL				20	1		0.0		1	20				BATTERY CHARGER-S	16
17	EM LIGHTS GEN RM				20	1			0.0	1	20				DAY TANK-N	18
19	BAD				20	1	0.0			1	20				BATTERY CHARGER-N	20
21	SPARE				20	1		0.0		1	20				MAG-METERS BASEMENT	22
23	EM LTS SW GEAR RM				20	1			0.0	1	20				PLC-3	24
25	LTS S TUNNEL				20	1	0.0			1	20				SPARE	26
27	SPARE				20	1		0.0		1	20				SPARE	28
29	SPARE				20	1			0.0	1	20				HAZ GAS DETECTION SYS	30
31	SPACE						0.0								SPACE	32
33	SPACE							0.0							SPACE	34
35	SPACE								0.0						SPACE	36
37	SPACE						0.0								SPACE	38
39	SPACE							0.0							SPACE	40
41	SPACE								0.0						SPACE	42
					TOTAL LOAD IN KVA		0.0 A	0.0 B	0.0 C							

REMARKS: LOAD VALUES ARE SHOWN AS 0.0 AND ARE NOT REPRESENTATIVE OF ACTUAL PANEL LOADING.

PANEL TOTALS	
TOTAL CONNECTED LOAD (KVA)	0.0
TOTAL DEMAND LOAD (KVA)	18.4

PANELBOARD: 'LE-21' NEW

MCB RATING: 125A | MAINS RATING: 125A | LOCATION: GATE-1 | VOLTS: 120/208 | PHASE: 3 | WIRES: 4 | A.I.C. RATING: 10KA | MOUNTING: SURFACE | NEMA 1 ENCLOSURE

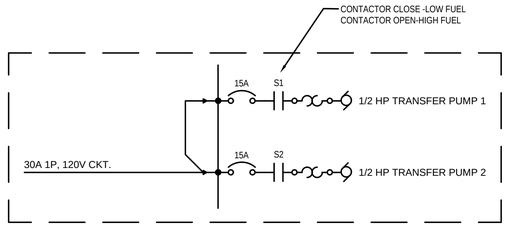
CKT	CIRCUIT DESCRIPTION	WIRE	G.	C.	TRIP	POLE	A	B	C	POLE	TRIP	C.	G.	WIRE	CIRCUIT DESCRIPTION	CKT
1	4-REC. (POLE LIGHT) S/S TUNNEL				20	1	0.0			1	20				3- REC STOR & SETL	2
3	3- REP. N/S TUNNEL				20	1		0.0		1	20				REC BY SCUM PUMP	4
5	2-REC. PUMP GALLERY				20	1			0.0	1	20				LTS STOR RM P102-OUTSIDE REC	6
7	EXIT LTS PRI CONT. CTR				20	1	0.0			1	20				2-STOR RM P102-OUTSIDE REC	8
9	SPARE				20	1		0.0		1	20				LTS GEN RM P101	10
11	LTS-STAIR 23 & PUMP GALLERY				20	1			0.0	1	20				LTS SW GEAR RM P100	12
13	1 REC.-SW. GEAR RM 3 REC GEN RM				20	1	0.0			2	20	3/4	12	12	JACKET HEATER-GEN NO. 1	14
15	1 REC. SW GEAR RM NORTH WALL				20	1		0.0								16
17	EM LIGHTS GEN RM				20	1			0.0	1	20				SPARE	18
19	GEN FUEL PUMP CONTROL PANEL	10	10	3/4	30	1	0.0	0.0		1	20	3/4	12	12	BATTERY CHARGER-GEN NO. 1	20
21	SPARE				20	1		0.0		1	20				MAG-METERS BASEMENT	22
23	EM LTS SW GEAR RM				20	1			0.0	1	20				PLC-3	24
25	LTS S TUNNEL				20	1	0.0			1	20				SPARE	26
27	SPARE				20	1		0.0		1	20	3/4	12	12	BATTERY CHARGER-GEN NO. 2	28
29	SPARE				20	1			0.0	1	20				HAZ GAS DETECTION SYS	30
31	SPARE				20	2	0.0			2	20	3/4	12	12	JACKET HEATER-GEN NO. 2	32
33								0.0								34
35	SPACE								0.0						SPACE	36
37	SPACE						0.0								SPACE	38
39	SPACE							0.0							SPACE	40
41	SPACE								0.0						SPACE	42
					TOTAL LOAD IN KVA		0.0 A	0.0 B	0.0 C							

REMARKS: LOAD VALUES ARE SHOWN AS 0.0 AND ARE NOT REPRESENTATIVE OF ACTUAL PANEL LOADING.
*REPLACE 20A-1P BREAKERS AT POLES 9 WITH NEW CIRCUIT BREAKER.

PANEL TOTALS	
TOTAL CONNECTED LOAD (KVA)	0.0
TOTAL DEMAND LOAD (KVA)	20.0

LIGHT FIXTURE SCHEDULE (BASIS OF DESIGN)

TYPE	DESCRIPTION	MOUNTING	LAMP #	LAMP TYPE	LAMP WATTS	LAMP LUMENS	LAMP COLOR TEMP.	RATINGS VOLTS	MT HGT	LUMINAIRE MANUFACTURER	LUMINAIRE MODEL NO.	REMARKS
A1	LED STRIP LIGHT	CEILING	N/A	L.E.D.	30	4000	4000K	120-277	10.00 Ft	LITHONIA	CSS L48 4000LM MVOLT 40K 80CRI	



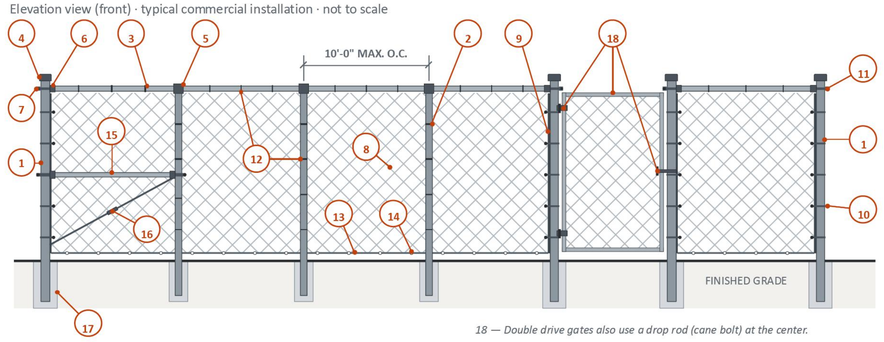
GENERATOR FUEL PUMP CONTROL PANEL

1

Chain Link Fence – Component Diagram & Terminology

SHEET 1 OF 3

Elevation view (front) · typical commercial installation · not to scale



18 — Double drive gates also use a drop rod (cane bolt) at the center.

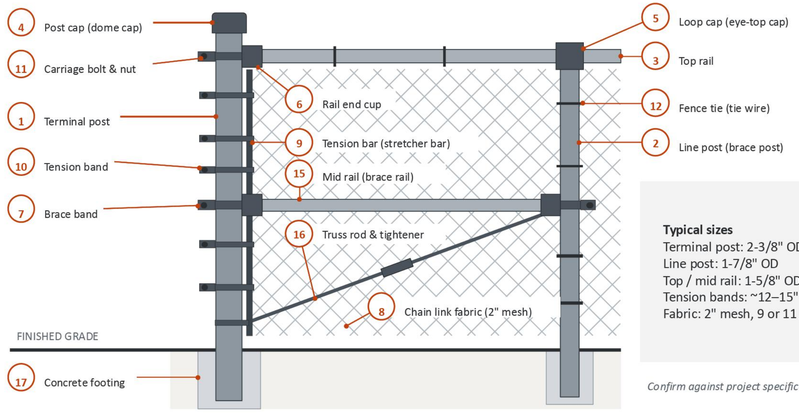
1 Terminal post (end/corner/gate), 2-3/8" OD
2 Line post, 1-7/8" OD, 10' max o.c.
3 Top rail, 1-5/8" OD, swedged/sleeved
4 Post cap (dome cap)
5 Loop cap (eye-top cap)
6 Rail end cup (rail end)
7 Brace band
8 Chain link fabric, 2" mesh, 9/11 ga
9 Tension bar (stretcher bar)
10 Tension band (stretcher band)
11 Carriage bolt & nut
12 Fence tie: 12–14" posts, 24" rail
13 Bottom tension wire (coil wire)
14 Hog ring
15 Mid rail / brace rail
16 Truss rod & truss tightener
17 Concrete footing
18 Gate frame, hinges & fork latch

3 G1-15E-07A SECURITY FENCE DETAIL 1
NOT TO SCALE

Detail A – Terminal Post Assembly

SHEET 2 OF 3

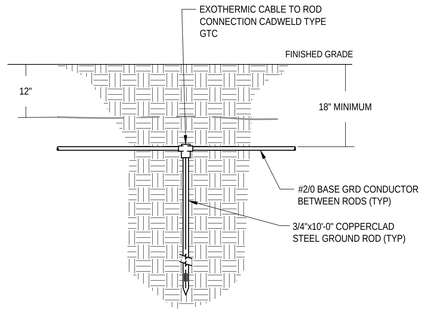
Enlarged close-up at an end / corner post · callout numbers match Sheet 1 · not to scale



Typical sizes
Terminal post: 2-3/8" OD
Line post: 1-7/8" OD
Top / mid rail: 1-5/8" OD
Tension bands: ~12–15" apart
Fabric: 2" mesh, 9 or 11 ga

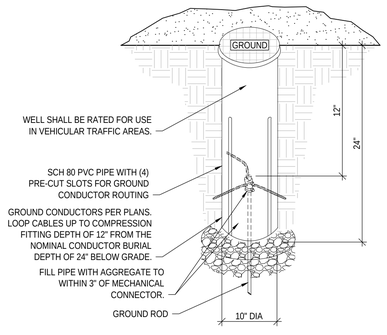
Confirm against project specifications.

4 G1-15E-07A SECURITY FENCE DETAIL 2
NOT TO SCALE



NOTES:
1. GROUNDING LOOP SHALL BE TESTED TO SHOW THAT IT MEETS NEC CODE 2020 AND RECORDED FOR OWNERS RECORDS.

1 G1-15E-07A TYPICAL GROUND ROD BURIAL DETAIL
NOT TO SCALE



NOTES:
1. BASIS OF DESIGN IS HARGER, PART NO. 360PP INSPECTION WELL.

2 G1-15E-07A TEST WELL
NOT TO SCALE

verdantas
2001 MAIN STREET, SUITE 202
WHEELING, WV 26003-2855
TEL. 304.232.2784

TROY L. DELZER, PE
TROY L DELZER REGISTERED 24338 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER
9-18-2026
P.E. #24338
STATE: WV

DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT NO.
CZ	DJP/HJC	CZ	38010

No.	REVISION	CK'D BY	DATE
1	ADDED FENCE DETAILS	DJP/CZ	10/15/2026
	ISSUED FOR ADDENDUM 1		

WHEELING–OHIO–WV
WHEELING WPCD PHASE 4 BOND IMP. WW
WPCD G1 BP07 GENERATOR REPLACEMENT
BOND PACKAGE 2025, AMENDMENT 4
ELECTRICAL DETAILS AND SCHEDULES

DATE 09-18-2026
SCALE NO SCALE
SHEET G1-15E-07A

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