

# REPLACE UST & LEAK DETECTION PHASE II

FARGO VA HEALTH CARE SYSTEM  
 DEPARTMENT OF VETERANS AFFAIRS  
 2101 ELM STREET  
 FARGO, NORTH DAKOTA 58102

PROJECT NO. 437-24-101

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VA



U.S. DEPARTMENT OF VETERANS AFFAIRS  
 VETERANS HEALTH ADMINISTRATION

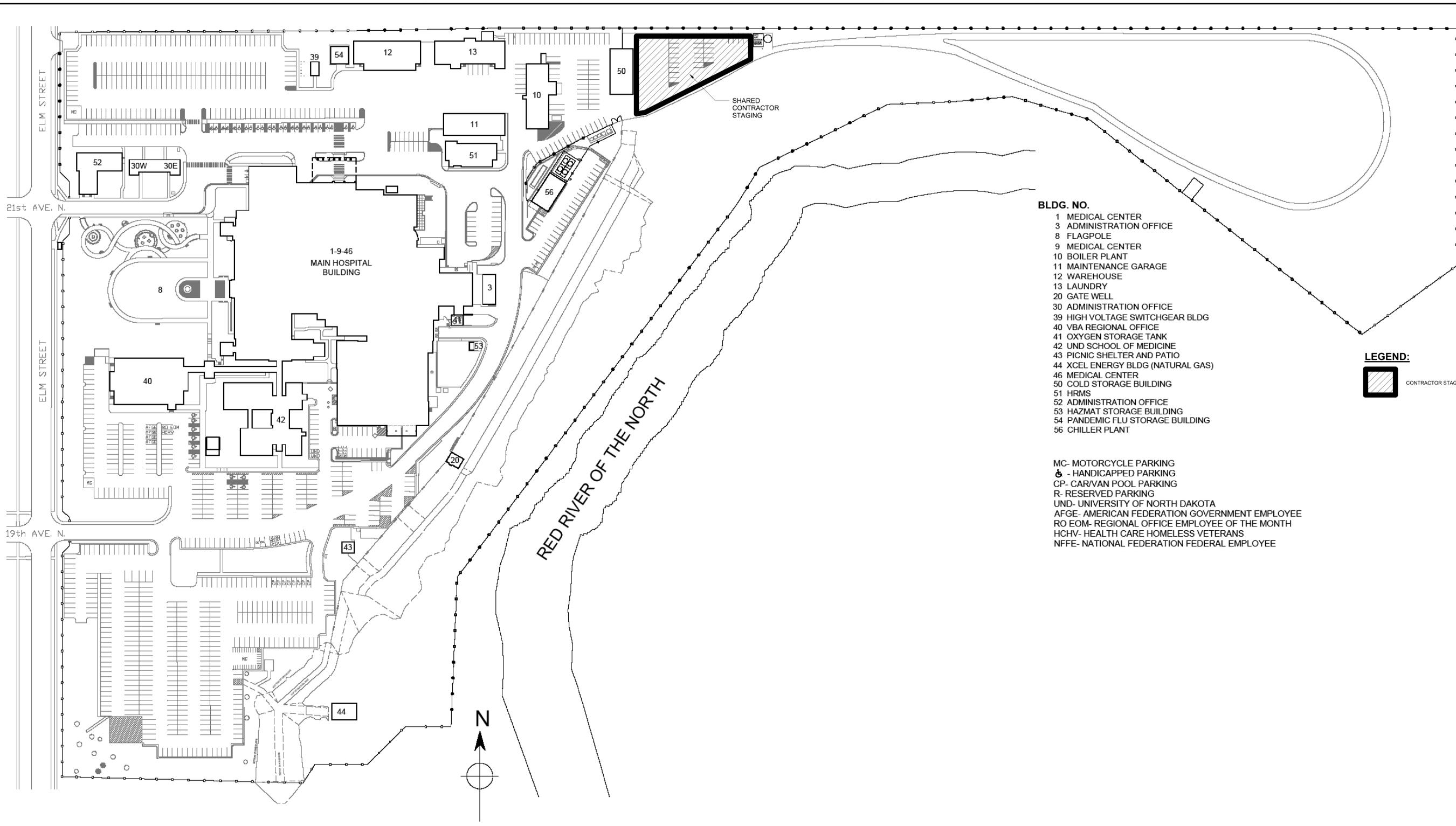
100% BID DOCUMENTS

Revisions: _____ Date: _____	<b>CONSULTANT</b> PROTECTION ENGINEERING CONSULTANTS (PEC) 100 CREEK ROAD, SUITE 102 DRIPPING SPRINGS, TX 78620 PH: (512) 380-1988 WESTERN WATER CONSULTANTS (WWC) 1275 MAPLE STREET, SUITE F HELENA, MT 59601 PH: (406) 443-3962	MBN 503 7TH STREET, SUITE 200 FARGO, ND 58102 PH: (701) 478-6336 ENVIROS 220 RAMSEY STREET HASTINGS, MN 55033 PH: (651) 319-0170	<b>DESIGNER OF RECORD</b> <b>FOURFRONT</b> DESIGN INC 517 7TH STREET RAPID CITY, SD 57701 PH: (605) 342-9470 POC: JARED LOTT FFD PROJECT NO: 19.2481.M21	STAMP 	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title COVER PAGE Approved: Project Director	Phase BID DOCUMENTS	Project Title Replace USTs and Leak Detection System Phase 2 Location 2101 ELM STREET, FARGO, ND 58102 Issue Date 08/28/2025	Project Number 437-24-101 Building Number _____ Drawing Number G-0.00	Checked PM Drawn TK
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11/15/2022 11:30:03 AM

File Path

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 one eighth inch = one foot  
 one quarter inch = one foot  
 three eighths inch = one foot  
 one half inch = one foot  
 three quarters inch = one foot  
 one inch = one foot  
 one and one half inches = one foot  
 one and one half inches = one foot



- BLDG. NO.**
- 1 MEDICAL CENTER
  - 3 ADMINISTRATION OFFICE
  - 8 FLAGPOLE
  - 9 MEDICAL CENTER
  - 10 BOILER PLANT
  - 11 MAINTENANCE GARAGE
  - 12 WAREHOUSE
  - 13 LAUNDRY
  - 20 GATE WELL
  - 30 ADMINISTRATION OFFICE
  - 39 HIGH VOLTAGE SWITCHGEAR BLDG
  - 40 VBA REGIONAL OFFICE
  - 41 OXYGEN STORAGE TANK
  - 42 UND SCHOOL OF MEDICINE
  - 43 PICNIC SHELTER AND PATIO
  - 44 XCEL ENERGY BLDG (NATURAL GAS)
  - 46 MEDICAL CENTER
  - 50 COLD STORAGE BUILDING
  - 51 HRMS
  - 52 ADMINISTRATION OFFICE
  - 53 HAZMAT STORAGE BUILDING
  - 54 PANDEMIC FLU STORAGE BUILDING
  - 56 CHILLER PLANT

- MC- MOTORCYCLE PARKING
- ♿ - HANDICAPPED PARKING
- CP- CAR/VAN POOL PARKING
- R- RESERVED PARKING
- UND- UNIVERSITY OF NORTH DAKOTA
- AFGE- AMERICAN FEDERATION GOVERNMENT EMPLOYEE
- RO EOM- REGIONAL OFFICE EMPLOYEE OF THE MONTH
- HCHV- HEALTH CARE HOMELESS VETERANS
- NFFE- NATIONAL FEDERATION FEDERAL EMPLOYEE

**LEGEND:**



CONTRACTOR STAGING AREA

**1 LOCATION MAP AND CONTRACTOR STAGING PLAN**  
 1/12" = 1'-0"

**100% BID DOCUMENTS**

Revisions: Date	CONSULTANTS:	ARCHITECT/ENGINEER OF RECORD: <b>FOURFRONT</b> DESIGN INC <small>517 7TH STREET RAPID CITY, SD 57701 PH: (605) 342-3470 POC: JARED LOTT</small>	STAMP: 	Office of Construction and Facilities Management <b>VA</b> U.S. Department of Veterans Affairs	Drawing Title <b>LOCATION MAP AND CONTRACTOR STAGING</b> COR / Project Engineer Owner	Phase <b>BID DOCUMENTS</b>	Project Title <b>Replace USTs and Leak Detection System Phase 2</b>	Project Number 437-24-101 Building Number	
							Location 2101 ELM STREET, FARGO, ND 58102	Drawing Number <b>G-0.02</b> Dwg. of	
							Date 08/28/2025	Checked RD	Drawn KZ

Fargo VA Pre-Construction Risk Assessment (PCRA)

PCRA Introductory Information and Instructions

Use this template as a baseline for performing facility Pre-Construction Risk Assessments (PCRA) for Construction, Renovation, and Maintenance work (referred to as the "activity" in this document). The template provides minimum requirements for categorizing activity type(s) and safety risk to determine the level of precautions needed to prevent impact related to Construction, Renovation and Maintenance on patients, employees, and contractors.

Ensure that the activity statement of work and any drawings available are used for the PCRA assessment and included in the project file with the completed PCRA.

Communication and coordination of all types of activity with affected areas are to be included among the control measures. The development of communication and coordination plans must begin during the activity planning phase.

Facilities may customize this template to incorporate site-specific information and requirements.

**NOTE:** This VHA PCRA template pertains specifically to non-infection-related safety for Construction, Renovation, and Maintenance activities. It must be used in conjunction with the VHA Infection Control Risk Assessment (ICRA) for the activity, if required, which specifically addresses infection risks outside the scope of this PCRA.

**PERMIT:** See the last page of this document for a fillable permit form to be used for posting at the activity site.

Activity Location: East and south of boiler plant, north of generator 1 (outside)

Activity Name, Number, and/or Brief Description: 437-24-101 replace UST and leak detection

Table 1 - Construction, Renovation, and/or Maintenance Activity Type and Control Measures

**NOTE:** If any of the bulleted criteria in a higher activity type pertains to the work that will be done (even if the other criteria are in a lower type), use the higher activity type for the VHA PCRA.

Controls defined in Table 1 for the activity must be in place before the activity begins and maintained until work is completed and the area is activated. Control measures for each activity must also include the control measures in the preceding rows.

As the activity progresses, a full re-evaluation of remaining activity type and risk is required prior to changing the level of control measures.

Activity Type determined from Table 1: large

Activity Type and Description	Control Measures
<b>Inspection/upkeep generally defined as follows:</b> <ul style="list-style-type: none"> <li>Work can be completed in a single shift, not to exceed 10 hours.</li> <li>Patients, employees and/or visitors may be in the area depending on the activity.</li> <li>Work that does not create dust or debris.</li> <li>Work that does not create vapors or fumes.</li> <li>Removal of ceiling tile or access to mechanical or electrical chase for visual inspection that will not impair fire safety systems and are limited to 1 tile per 50 square feet with limited</li> </ul>	<ol style="list-style-type: none"> <li>Immediately replace any ceiling tile, close access panels, etc., upon completion of work.</li> <li>Site visits of construction area are required weekly by member of multi-disciplinary team. Site visits will be documented on standard checklist.</li> <li>Site specific safety plan, task hazard analysis, and hazard communication required to be provided by the contractor and approved where a contact is in place. For internal work the</li> </ol>

VA Pre-Construction Risk Assessment (PCRA)

- If adjacent area is non-continuously occupied (e.g., areas where outpatient care is provided, employee health, etc.):
  - Develop a list of activities that will potentially impact or disrupt the operation of the area (e.g., work involving noise, vibration or exit obstruction) and meet with POC to coordinate execution of work in a way that mitigates the impact (e.g., conduct work after hours).
- If adjacent area is occupied continuously (e.g., areas where inpatient care is provided, residential areas such as Community Living Centers, etc.):
  - Develop a list of activities that will potentially impact or disrupt the operation of the area (e.g., work involving noise, vibration or exit obstruction) and meet with POC to coordinate execution of work in a way that mitigates the impact (e.g., move affected party temporarily).

Area	Service(s)/Type(s) of Area(s) (e.g., OR, Unit/Ward, Sterile Processing, Administrative, etc)*	Point of Contact (POC)	POC Contact Information	Construction plan communicated to POC?
Activity Area**	Outside, underground	Engineering Department	3760	yes
Area Above				
Area Below				
Adjacent Area 1				
Adjacent Area 2				
Adjacent Area 3				
Adjacent Area 4				

\* There may be more than one Service/type of area for each row. List all. The information entered on this table must be used in the ICRA if required.

\*\* List the area(s) in which the construction/renovation/maintenance activity will occur.

Infection Control Risk Assessment (ICRA)

Consult with Infection Prevention and Control regarding the assessment of potential infection risks associated with the activity and the need for control measures. See VHA Directive 7715 and the VHA ICRA Template for more information.

Is an ICRA required for the Activity? Yes  No

VA Pre-Construction Risk Assessment (PCRA)

- exposure time (not to exceed an hour for each tile) within the shift.
- Minor interior updates (e.g., replacing floor or ceiling tiles, carpentry work to include hanging signage, and painting with hand tools) that do not create vibration or noise.
- Limited building system maintenance that does not require Lock Out Tag Out (LOTO) such as plumbing on potable systems limited to faucet replacement, steam trap replacement etc. and electrical work such as replacement of bulbs, receptacles, or switches.

Small scale Construction, Renovation and general maintenance/repair work, generally defined as follows:

- Prolonged work that may take longer than a single shift but not exceeding six months.
- Patients and employees are not to be in the area until activity is completed.
- Work that creates some noise and vibration due to power tool use.
- Selective demolition/removal of preexisting floor covering, casework, lay-in ceiling, or other architectural elements that may
  - disturb asbestos, lead or silica
  - create the potential for falling objects
  - create vibration and/or noise in excess of 80 dBA in surrounding areas
  - cause penetrations in fire or smoke barrier
- Plumbing work such as the installation of new sinks, showers and toilets and associated plumbing that requires utility outages or work on the steam system that may require:
  - LOTO
  - The use of compressed gas cylinders
- Electrical work such as installation of conduit and wire for lighting, receptacles and switches for an area, the installation of conduit and wire for new devices such as terminal units, fans etc. Electrical work such as installation of cabling/wiring/conduit for a single device, installation of new device such as a light fixture that require LOTO.
- Air Handler and/or fan shutdown/startup and HVAC work such as replacement of a single diffuser, single terminal unit, a single device and the installation of ductwork, diffusers, and terminal units for an area that may require:
  - Work on ladders
  - Rigging, hoisting or lifting of equipment or materials overhead
- Modification of existing fire alarm and suppression systems requiring system outages and ILSMs or obstruction of exits and or impact on corridors.
- Architectural, structural, or any other work that may cause vapors or fumes such as:
  - Roofing work
  - Flooring work
  - Painting or other large-scale use of such substances

Large-scale construction, renovation, or maintenance generally defined as follows:

- Work exceeding 6 months in duration.
- Patients and employees are not to be in the area until activity is completed.

All control measures in the row above and the following:

- Hazard communication chemical inventory required to be provided by the contractor and approved.
- Where construction, Renovation and maintenance are done in an accredited facility, and ILSM assessment is required to be done and ILSMs put in place in accordance with TJC LS.01.02.01 and the local facility policy including Fire watch if necessary. Staff is trained and the ILSM is verified regularly
- Hot Work or burn permits in place and staff trained
- LOTO procedures in place and staff trained on their use
- Daily inspections of the site are to be conducted by the General Contractor or shop supervisor and documented on their daily log.

VA Pre-Construction Risk Assessment (PCRA)

- Excavation or heavy equipment use taking place
  - Dig safe required utility location
  - Trench safety
  - Dust control plan
  - Equipment exhaust, Noise, Vibration
- Confined space entry required (permit required or not)
- Requires crane work
  - General crane work
  - Lift over buildings
- Includes elevated work
  - Roof work, fall protection
  - Window work, scaffolding and fall protection
  - Odor control
- Welding, cutting or use of torches requiring burn permits
- Demolition of building components and infrastructure including removal of multiple doors, walls, framing, ceilings, flooring, piping, electrical and HVAC that may
  - require asbestos, lead or silica abatement
  - create the potential for falling objects
  - create vibration and/or noise in excess of 90 dBA in surrounding areas
  - cause breaches to fire or smoke barrier
- The installation building components such as new walls, ceilings and doors including framing, drywall and associated plaster work that requires transport of significant materials through building and up elevators i.e., weight limits of floors and elevators
- Plumbing work requiring LOTO and system shutdown and startup such as the installation of:
  - new medical gas systems,
  - steamheating hot water, condensate systems,
  - Potable water and sanitary drainage, multiple sinks, showers and toilets including associated plumbing.
- Electrical work such as installation of electrical feeders, distribution panels, conduit and wire for lighting, receptacles and switches for an area, the installation of conduit and wire for new devices such as terminal units, fans etc. requiring LOTO and system isolation.
- Installation of fire alarm and suppression systems requiring outages of those systems and ILSMs or closure of exits/corridors
- Mechanical work such as the installation of air handling equipment, associated ductwork, diffusers, heat exchangers, terminal units and controls requiring lifting and support of equipment and systems.

All control measures in the row above and the following:

- Hazard communication chemical inventory required to be provided by the contractor and approved.
- Where construction, Renovation and maintenance are done in an accredited facility, and ILSM assessment is required to be done and ILSMs put in place in accordance with TJC LS.01.02.01 and the local facility policy including Fire watch if necessary. Staff is trained and the ILSM is verified regularly
- Hot Work or burn permits in place and staff trained
- LOTO procedures in place and staff trained on their use
- Daily inspections of the site are to be conducted by the General Contractor or shop supervisor and documented on their daily log.

Table 2. Affected Adjacent Area Assessment

In addition to the minimum precautions noted above for the Activity Type, it is critical that the activity be coordinated with the areas adjacent to the activity to ensure operations in those areas are not disrupted or impacted. List the adjacent areas in Table 2 below and develop activity-specific coordination plans and associated communication plans with each area to address activity work that could impact or disrupt the operation of the areas, in general as follows:

- If adjacent area is vacant (e.g., work outside, construction of new building, etc.):
  - Coordination is typically not necessary other than potentially traffic flow and pedestrian access.

Fargo VA Pre-Construction Risk Assessment (PCRA) Permit

This page must be posted at the entrance to the project area, or other designated area

Unique permit number: 437-24-101 replace UST and leak detection	
Location and brief description of construction/renovation/maintenance: east and south of boiler plant, north of building 1 generator	
Project manager: Chad Holman	Project start date:
Contact phone number: 3347	Completion date:
Contractor or lead shop:	Permit expiration date: 1 year

Activity Type: Inspection/Upkeep, Small-scale, or Large-scale

Activity Type	Control measures to be in place for the duration of the activity (Check the box for the Activity Type to indicate the Control Measures)
Inspection/Upkeep	<ol style="list-style-type: none"> <li>Immediately replace any ceiling tile, close access panels, etc., upon completion of work.</li> <li>Site visits of construction area are required weekly by member of multi-disciplinary team. Site visits will be documented on standard checklist.</li> <li>Site specific safety plan, task hazard analysis, and hazard communication required to be provided by the contractor and approved.</li> <li>Must address identified hazards and controls that will be implemented to ensure minimal impact patients, employees, contractors and facility.</li> <li>Communication and coordination plan for all affected areas.</li> </ol>
Small-scale	<p>All control measures in the row above and the following:</p> <ol style="list-style-type: none"> <li>Hazard communication chemical inventory required to be provided by the contractor and approved.</li> <li>ILSMs in place and staff trained on situation</li> <li>Hot Work or burn permits in place and staff trained</li> <li>LOTO procedures in place and staff trained on their use</li> <li>Site visits will be reviewed using the criteria in standardized guide.</li> <li>Daily inspections of the site are to be conducted by the General Contractor and documented on their daily log.</li> </ol>
Large-scale	<p>All control measures in both rows above and the following Activity Hazard Analyses and Control Plans as applicable (check all that apply):</p> <ol style="list-style-type: none"> <li>Excavation safety plan in place <input checked="" type="checkbox"/></li> <li>Dust control plan in place <input type="checkbox"/></li> <li>Pollution prevention plan in place <input checked="" type="checkbox"/></li> <li>Dig safe paperwork in place <input checked="" type="checkbox"/></li> <li>Crane lift plan in place <input checked="" type="checkbox"/> <ol style="list-style-type: none"> <li>Crane placement</li> <li>Crane swing</li> <li>Crane load evaluation</li> </ol> </li> <li>Fall protection plan in place and staff trained <input checked="" type="checkbox"/></li> <li>Confined entry plan in place and staff trained <input checked="" type="checkbox"/></li> </ol>

Additional requirements: Construction area to ensure no unauthorized access at all times.

Is an Infection Control Risk Assessment (ICRA) required for the Activity? Yes  No

Infection Prevention and Control signature: KATHERYN VASEK Digitally signed by KATHERYN VASEK Date: 2023.01.08 09:38:48 -0600

Project Manager signature: \_\_\_\_\_ Date: \_\_\_\_\_

Safety Officer signature: RACHEL PETERS Digitally signed by RACHEL PETERS Date: 2023.01.08 09:21:21 -0600

Chair, Construction Safety Committee signature: \_\_\_\_\_ Date: \_\_\_\_\_

\*The location of all Activity Hazard Analyses and Control Plans (excavation, dust, pollution, etc.) as applicable shall be in the PCRA folder for the project and shall be made available to all workers on the job.

Revisions:	Date:	CONSULTANTS:	ARCHITECT/ENGINEER OF RECORD: <b>FOURFRONT DESIGN INC</b> 517 7TH STREET RAPID CITY, SD 57701 PH: (605) 342-9470 POC: JARED LOTT	STAMP: 	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs Owner	Drawing Title: PCRA PLAN COR / Project Engineer	Phase: BID DOCUMENTS	Project Title: Replace USTs and Leak Detection System Phase 2	Project Number: 437-24-101 Building Number:
								Location: 2101 ELM STREET, FARGO, ND 58102	Drawing Number: G-1.00
								Date: 08/28/2025	Dwg. of
								Checked: RD	
								Drawn: KZ	

100% BID DOCUMENTS

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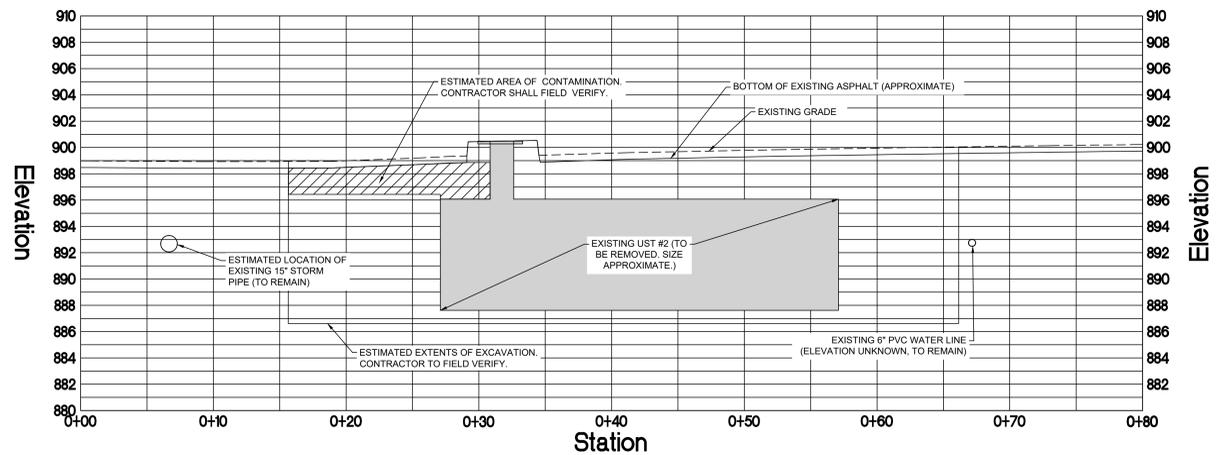
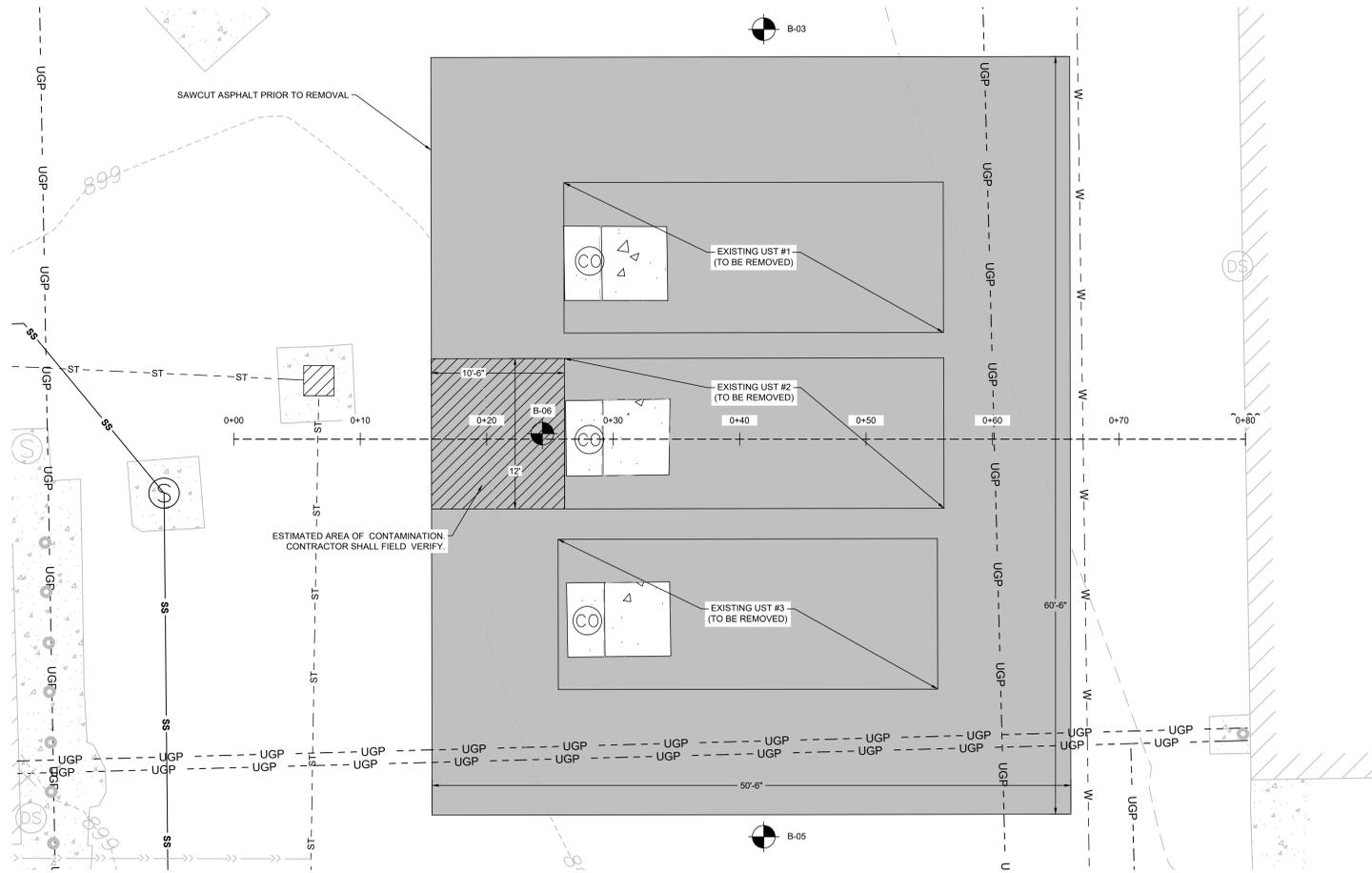
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GENERAL NOTES - CONTAMINATED SOIL REMOVAL

- CONTRACTOR SHALL NOTIFY THE NDDAQ AND EPA REGION 8 AT LEAST 30 DAYS PRIOR TO COMMENCEMENT OF UST CLOSURE AND CONTAMINATED SOIL REMOVAL ACTIVITIES.
  - CONTRACTOR SHALL COORDINATE ALL UTILITY LOCATES (811 AND PRIVATE LOCATE SERVICES) PRIOR TO EXCAVATION.
  - CONTRACTOR SHALL IMPLEMENT THEIR SITE-SPECIFIC HEALTH AND SAFETY PLAN (HASP), INCLUDING AIR MONITORING AND REQUIRED PERSONAL PROTECTIVE EQUIPMENT (PPE) DURING EXCAVATION AND HANDLING OF PETROLEUM-CONTAMINATED MATERIALS.
  - THE CONTRACTOR SHALL DEVELOP AND SUBMIT A CONTAMINATED SOIL MANAGEMENT PLAN TO THE VA PROJECT MANAGER FOR APPROVAL PRIOR TO START OF REMOVAL WORK.
- EXCAVATION AND CONTAMINATED SOIL REMOVAL NOTES
- EXCAVATE PETROLEUM-IMPACTED SOIL IN THE AREA AROUND BORING B-06 TO A MINIMUM DEPTH OF 2 FEET BELOW GROUND SURFACE (BGS) OR UNTIL CLEAN LIMITS ARE CONFIRMED THROUGH FIELD SCREENING AND LABORATORY ANALYSIS.
  - SCREEN EXCAVATED SOILS WITH A PHOTOIONIZATION DETECTOR (PID) AND SUBMIT CONFIRMATION SAMPLES TO A CERTIFIED LABORATORY FOR ANALYSIS OF TPH-DRO, BTEX, AND NAPHTHALENE.
  - EXTEND EXCAVATION AS NECESSARY IF PETROLEUM CONTAMINATION IS ENCOUNTERED BEYOND INITIAL EXCAVATION DEPTHS.
  - IMPLEMENT DUST CONTROL AND VAPOR MITIGATION MEASURES, INCLUDING WATER SPRAYING AND PLASTIC COVERINGS, AS NEEDED DURING EXCAVATION.
- CONTAMINATED SOIL HANDLING AND DISPOSAL NOTES
- PLACE CONTAMINATED SOILS ON A 6-MIL MINIMUM IMPERMEABLE LINER AND COVER WITH SECURED TARPULIN IF IMMEDIATE OFF-SITE TRANSPORT IS NOT POSSIBLE.
  - INSTALL SILT FENCE OR EQUIVALENT EROSION CONTROL AROUND ALL CONTAMINATED SOIL STOCKPILES.
  - ALL PETROLEUM-CONTAMINATED SOILS EXCEEDING 100 MG/KG TPH SHALL BE TRANSPORTED TO A NDDAQ-APPROVED LANDFILL OR PERMITTED LANDFARM FOR TREATMENT OR DISPOSAL.
  - CONTRACTOR SHALL PROVIDE MANIFESTS, RECEIPTS, AND CERTIFICATES OF DISPOSAL FOR ALL CONTAMINATED MATERIALS REMOVED FROM SITE.
- TANK AND PIPING REMOVAL COORDINATION NOTES
- REMOVE USTS AND ASSOCIATED PIPING PER EPA 40 CFR PART 280 REQUIREMENTS.
  - ENSURE TANKS AND PIPING ARE CLEANED OF RESIDUAL PRODUCT PRIOR TO REMOVAL AND OFF-SITE TRANSPORT.
  - PREVENT PRODUCT RELEASE DURING REMOVAL. CAP AND SECURE ALL OPEN LINES AND CONNECTIONS.
- SAMPLING, BACKFILL, AND RESTORATION NOTES
- CONDUCT CONFIRMATION SAMPLING AT THE FLOOR AND SIDEWALLS OF THE EXCAVATION AFTER REMOVAL OF CONTAMINATED MATERIALS. DO NOT BACKFILL UNTIL APPROVAL IS RECEIVED FROM THE VA PROJECT MANAGER BASED ON SAMPLING RESULTS.
  - BACKFILL EXCAVATIONS WITH CLEAN, TESTED FILL MATERIAL AND COMPACT PER PROJECT SPECIFICATIONS.
  - RESTORE DISTURBED AREAS TO ORIGINAL GRADES AND CONDITIONS UNLESS OTHERWISE NOTED ON DRAWINGS.
- REPORTING AND DOCUMENTATION NOTES
- MAINTAIN DAILY LOGS DOCUMENTING EXCAVATION ACTIVITIES, SCREENING RESULTS, SOIL HANDLING, WEATHER CONDITIONS, AND ANY UNEXPECTED CONDITIONS ENCOUNTERED.
  - SUBMIT A CLOSURE REPORT TO THE VA PROJECT MANAGER INCLUDING FIELD DATA, ANALYTICAL RESULTS, DISPOSAL MANIFESTS, AND A SUMMARY OF REMEDIATION ACTIVITIES.

NOTE: CONTRACTOR SHALL EXCAVATE PETROLEUM-CONTAMINATED SOILS AS SHOWN AND DESCRIBED IN THE REMEDIAL ACTION PLAN AND SITE ASSESSMENT REPORT (AET PROJECT NO. P-040293). COORDINATE SOIL SCREENING, SAMPLING, AND DISPOSAL WITH VA REPRESENTATIVE. MAINTAIN REGULATORY COMPLIANCE WITH NDDAQ AND EPA REGION 8 THROUGHOUT WORK EXECUTION.



1 UNDERGROUND STORAGE TANKS 1, 2 & 3 CONTAMINATION AREA PLAN & PROFILE  
3/16" = 1'-0"

100% BID DOCUMENTS

CONSULTANT PROTECTION ENGINEERING CONSULTANTS (PEC) 100 CREEK ROAD, SUITE 102 DRIPPING SPRINGS, TX 78620 PH: (512) 380-1988 WESTERN WATER CONSULTANTS (WWC) 1275 MAPLE STREET, SUITE F HELENA, MT 59601 PH: (406) 443-3962	DESIGNER OF RECORD <b>FOURFRONT</b> DESIGN INC 517 7TH STREET RAPID CITY, SD 57701 PH: (605) 342-9470 POC: JARED LOTT	STAMP 	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title UST 1, 2 & 3 CONTAMINATION AREA PLAN & PROFILE Approved: Project Director	Phase BID DOCUMENTS	Project Title Replace USTs and Leak Detection System Phase 2 Location 2101 ELM STREET, FARGO, ND 58102	Project Number 437-24-101
							Building Number
Revisions:	Date:	ENVIROS 220 RAMSEY STREET HASTINGS, MN 55033 PH: (651) 319-0170	FFD PROJECT NO: 19.2481.M21	Drawing Number G-2.00	Issue Date 08/28/2025	Checked STH/KJG	Drawn JDF

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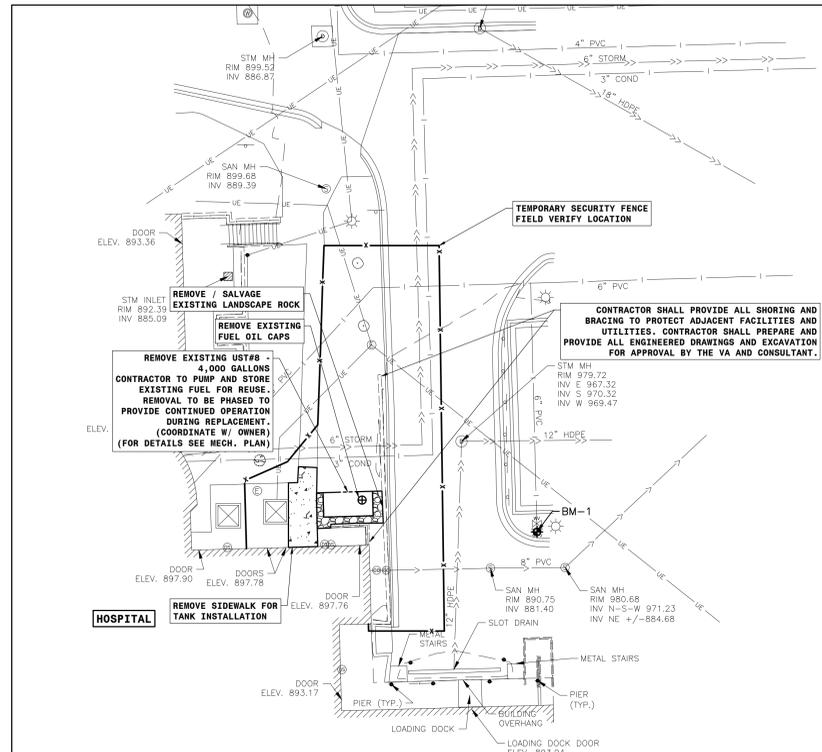
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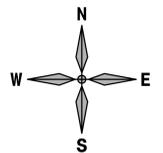
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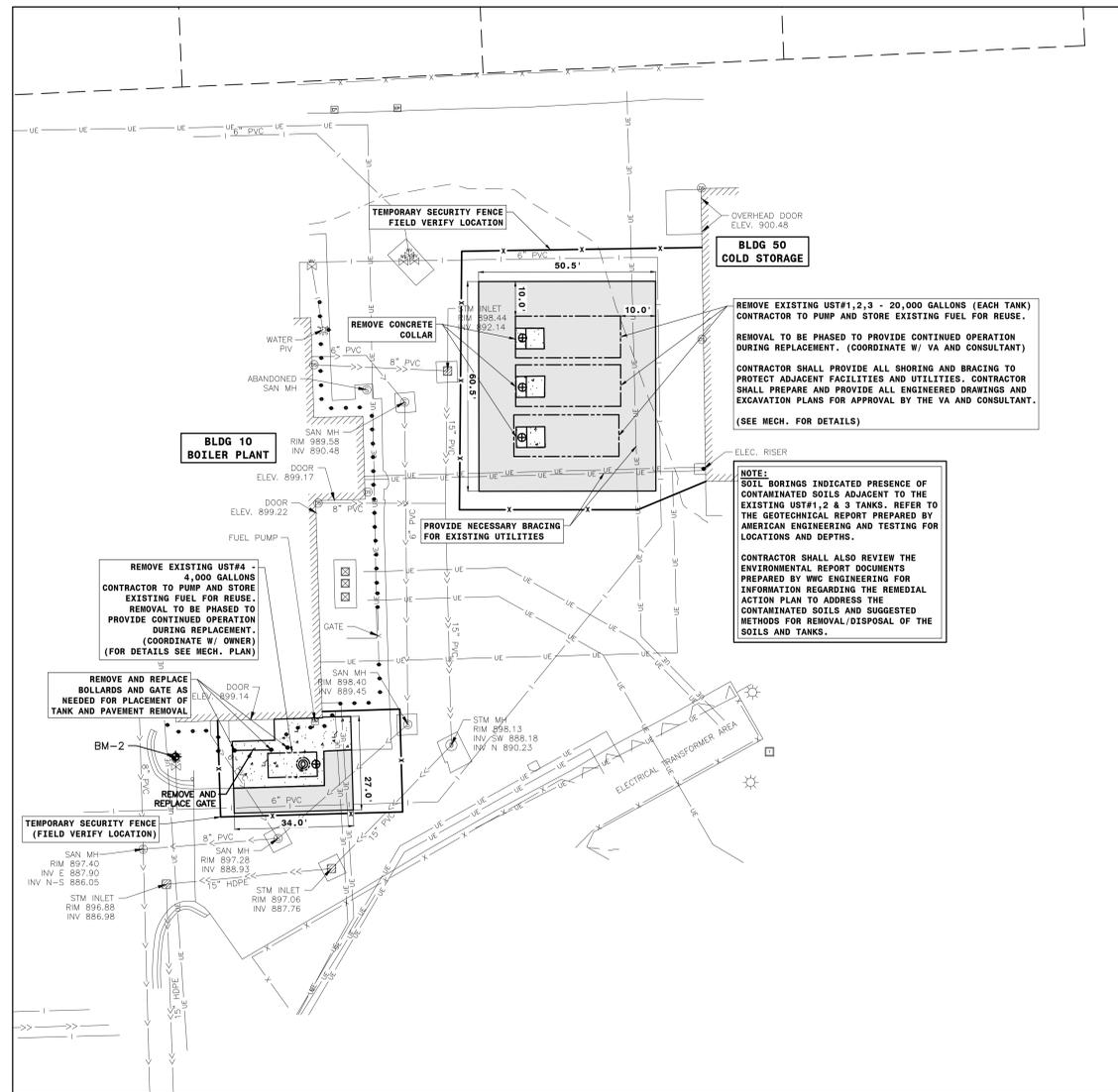
UST #8 DEMOLITION



SCALE: 1 INCH = 20 FEET

**SYMBOL LEGEND:**

---	EXISTING PROPERTY LINE	☼	EXISTING LIGHT POLE
---x---	EXISTING HYDRANT/BENCHMARK	⊕	EXISTING ELECTRICAL MANHOLE
--->---	EXISTING STORM SEWER LINE	⊕	EXISTING COMMUNICATIONS VAULT
--->---	EXISTING SANITARY SEWER LINE	⊕	EXISTING TRANSFORMER
---	EXISTING WATER LINE	⊕	EXISTING ELECTRICAL PEDESTAL
---UE---	EXISTING ELECTRICAL LINE	⊕	EXISTING GAS METER
---	EXISTING GAS LINE	⊕	EXISTING SIGN
---	EXISTING HANDRAIL	⊕	EXISTING BOLLARD
---	EXISTING FENCE	⊕	EXISTING DECIDUOUS TREE/SHRUB
---	EXISTING RETAINING WALL	⊕	REMOVE EXISTING ASPHALT PAVEMENT
⊕	EXISTING STORM MANHOLE	⊕	REMOVE EXISTING CONCRETE PAVEMENT
⊕	EXISTING STORM INLET	⊕	REMOVE / SALVAGE EXISTING LANDSCAPE ROCK
⊕	EXISTING DOWNSPOUT	⊕	TEMPORARY SECURITY FENCE
⊕	EXISTING SANITARY MANHOLE	⊕	REMOVE EXISTING BOLLARD
⊕	EXISTING CLEANOUT	⊕	REMOVE EXISTING FUEL OIL CAPS
⊕	EXISTING WATER MANHOLE	⊕	
⊕	EXISTING WATER GATE VALVE	⊕	



UST #1, #2, #3, & #4 DEMOLITION

**PLAN NOTES:**

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- CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING/PROPOSED UTILITY CROSSINGS, AND WHERE EXISTING UTILITIES CONNECT INTO NEW UTILITY MAINS.
- ALL PAVEMENT MARKED FOR DEMOLITION SHALL BE FULL DEPTH SAW CUT PRIOR TO REMOVAL.
- CONTRACTOR SHALL KEEP ACCESS OPEN TO ALL EXISTING DOORS, FIRE EXITS, AND LOADING DOCKS DURING ALL PHASES OF CONSTRUCTION. IF TEMPORARY CLOSURES ARE REQUIRED, COORDINATE WITH VHA ADMINISTRATION A MINIMUM OF 3 WEEKS IN ADVANCE.
- CONTRACTOR IS REQUIRED TO MAINTAIN ONE DRIVING LANE OPEN AT ALL TIMES BETWEEN THE WORK SITE AND THE STAGING AREA. REFER TO SHEET G-0.02
- CONTRACTOR IS RESPONSIBLE FOR GENERAL TRAFFIC CONTROL TO KEEP VEHICLES AND PEDESTRIANS MOVING OUTSIDE OF THE PROJECT SITE. CONTRACTOR SHALL PROVIDE ADEQUATE SIGNS AND STAFF TO DIRECT FOR PUBLIC SAFETY AND TRAFFIC CONTROL. TEMPORARY FENCING AND COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL COORDINATE ANY RESTRICTIONS WITH THE VA ADMINISTRATION. CONTRACTOR WILL BE REQUIRED TO PROVIDE A DETAILED PHASING PLAN THAT OUTLINES TEMPORARY FENCING/TRAFFIC CONTROL FOR EACH PHASE OF CONSTRUCTION. REFER TO G1004 PHASING PLAN.
- ALL GRASSED AREAS DISTURBED BY CONSTRUCTION SHALL HAVE TOPSOIL (6" DEPTH), GRADED, SEEDED, AND HYDRO-MULCHED.

**BENCHMARKS:**

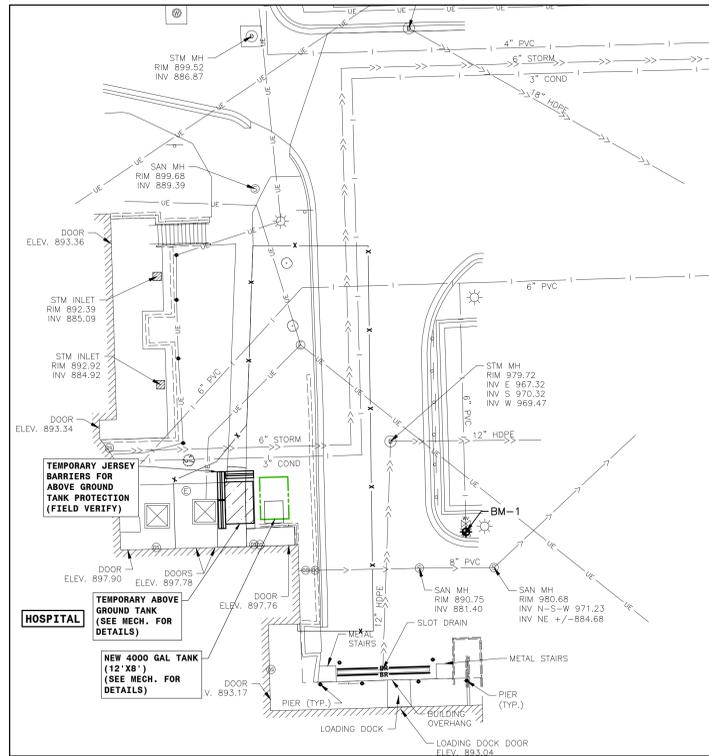
- BM-1: TOP NUT OF HYDRANT LOCATED EAST OF THE HOSPITAL AND NORTH OF THE LOADING DOCK, +/-50' EAST OF UST #8. ELEVATION = 893.98 (NAVD88)
- BM-2: TOP NUT OF HYDRANT LOCATED SOUTH OF BUILDING #10 & WEST OF UST #4, +/-10' SOUTH OF BUILDING #10. ELEVATION = 901.04 (NAVD88)

100% BID DOCUMENTS

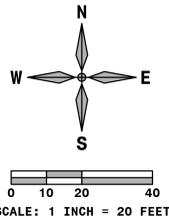
<b>CONSULTANT</b> PROTECTION ENGINEERING CONSULTANTS (PEC) 100 CREEK ROAD, SUITE 102 DRIPPING SPRINGS, TX 78620 PH: (512) 380-1988 WESTERN WATER CONSULTANTS (WWC) 1275 MAPLE STREET, SUITE F HELENA, MT 59601 PH: (406) 443-3962		<b>DESIGNER OF RECORD</b> <b>FOURFRONT</b> DESIGN INC 517 7TH STREET RAPID CITY, SD 57701 PH: (605) 342-0470 POC: JARED LOTT		<b>STAMP</b> 	Office of Construction and Facilities Management <b>VA</b> U.S. Department of Veterans Affairs	Drawing Title <b>EXISTING CONDITIONS /          DEMOLITION PLAN</b> Approved: Project Director	Phase <b>BID DOCUMENTS</b>	Project Title <b>Replace USTs and Leak          Detection System Phase 2</b>	Project Number <b>437-24-101</b> Building Number	Location <b>2101 ELM STREET, FARGO, ND 58102</b>	Issue Date <b>08/28/2025</b>	Checked <b>AKE</b>	Drawn <b>BRC</b>	Drawing Number <b>C1.0</b>
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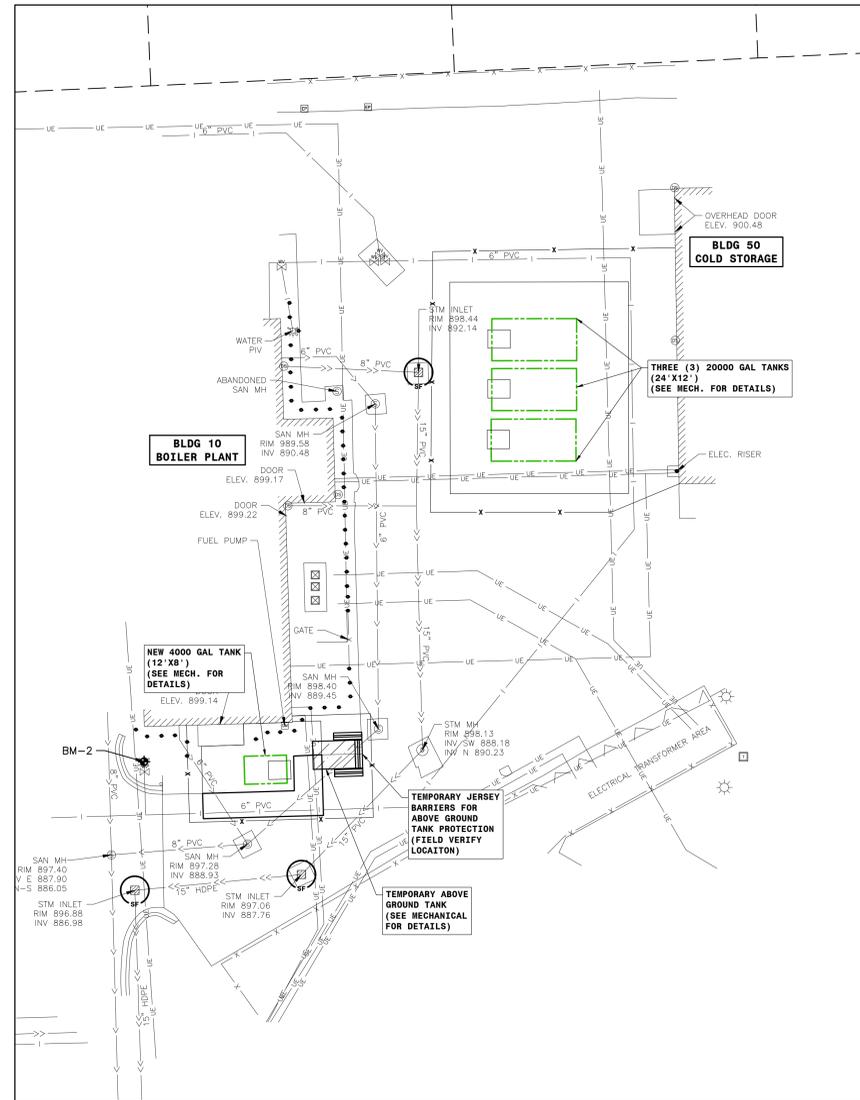


**UST #8 EROSION CONTROL / UTILITY**



**SYMBOL LEGEND:**

---	EXISTING PROPERTY LINE	☼	EXISTING LIGHT POLE
⊙	EXISTING HYDRANT/BENCHMARK	⊕	EXISTING ELECTRICAL MANHOLE
→	EXISTING STORM SEWER LINE	⊞	EXISTING COMMUNICATIONS VAULT
→	EXISTING SANITARY SEWER LINE	⊞	EXISTING TRANSFORMER
→	EXISTING WATER LINE	⊞	EXISTING ELECTRICAL PEDESTAL
—UE—	EXISTING ELECTRICAL LINE	⊞	EXISTING GAS METER
—G—	EXISTING GAS LINE	⊞	EXISTING SIGN
—X—	EXISTING HANDRAIL	⊞	EXISTING BOLLARD
---	EXISTING FENCE	⊞	EXISTING DECIDUOUS TREE/SHRUB
---	EXISTING RETAINING WALL	⊞	EXISTING SECURITY FENCE
⊙	EXISTING STORM MANHOLE	⊞	NEW TEMPORARY JERSEY BARRIER
⊙	EXISTING STORM INLET	⊞	NEW INLET PROTECTION
⊙	EXISTING DOWNSPOUT	⊞	NEW BIOROLL
⊙	EXISTING SANITARY MANHOLE		
⊙	EXISTING CLEANOUT		
⊙	EXISTING WATER MANHOLE		
⊙	EXISTING WATER GATE VALVE		



**UST #1, #2, #3, & #4 EROSION CONTROL / UTILITY**

**PLAN NOTES:**

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- ALL GRASSED AREAS DISTURBED BY CONSTRUCTION SHALL HAVE TOPSOIL (6" DEPTH), GRADED, SEEDED, AND HYDRO-MULCHED.

**BENCHMARKS:**

- BM-1: TOP NUT OF HYDRANT LOCATED EAST OF THE HOSPITAL AND NORTH OF THE LOADING DOCK, +/-50' EAST OF UST #8. ELEVATION = 893.98 (NAVDB8)
- BM-2: TOP NUT OF HYDRANT LOCATED SOUTH OF BUILDING #10 & WEST OF UST #4, +/-10' SOUTH OF BUILDING #10. ELEVATION = 901.04 (NAVDB8)

100% BID DOCUMENTS

Revisions: _____ Date: _____	<b>CONSULTANT</b> PROTECTION ENGINEERING CONSULTANTS (PEC) 100 CREEK ROAD, SUITE 102 DRIPPING SPRINGS, TX 78620 PH: (512) 380-1988	MBN 503 7TH STREET, SUITE 200 FARGO, ND 58102 PH: (701) 478-6336	<b>DESIGNER OF RECORD</b> <b>FOURFRONT</b> DESIGN INC	STAMP 	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title <b>EROSION CONTROL / UTILITY PLAN</b> Approved: Project Director	Phase BID DOCUMENTS	Project Title Replace USTs and Leak Detection System Phase 2	Project Number 437-24-101 Building Number
	WESTERN WATER CONSULTANTS (WWC) 1275 MAPLE STREET, SUITE F HELENA, MT 59601 PH: (406) 443-3962	ENVIROS 220 RAMSEY STREET HASTINGS, MN 55033 PH: (651) 319-0170	517 7TH STREET RAPID CITY, SD 57701 PH: (605) 342-9470 POC: JARED LOTT	FFD PROJECT NO: 19.2481.M21	Drawing Number <b>C2.0</b>	Location 2101 ELM STREET, FARGO, ND 58102	Issue Date 08/28/2025	Checked AKE	Drawn BRC

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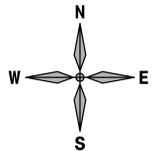
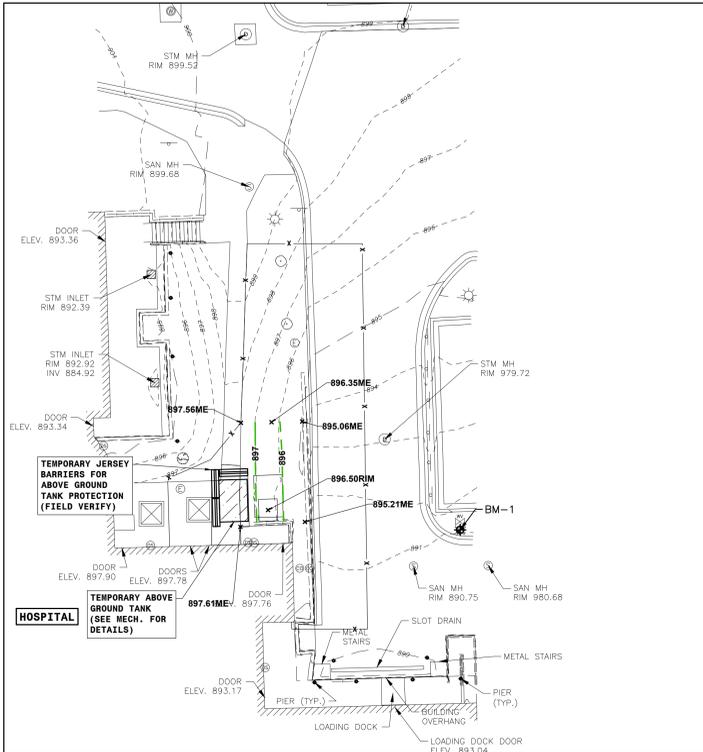
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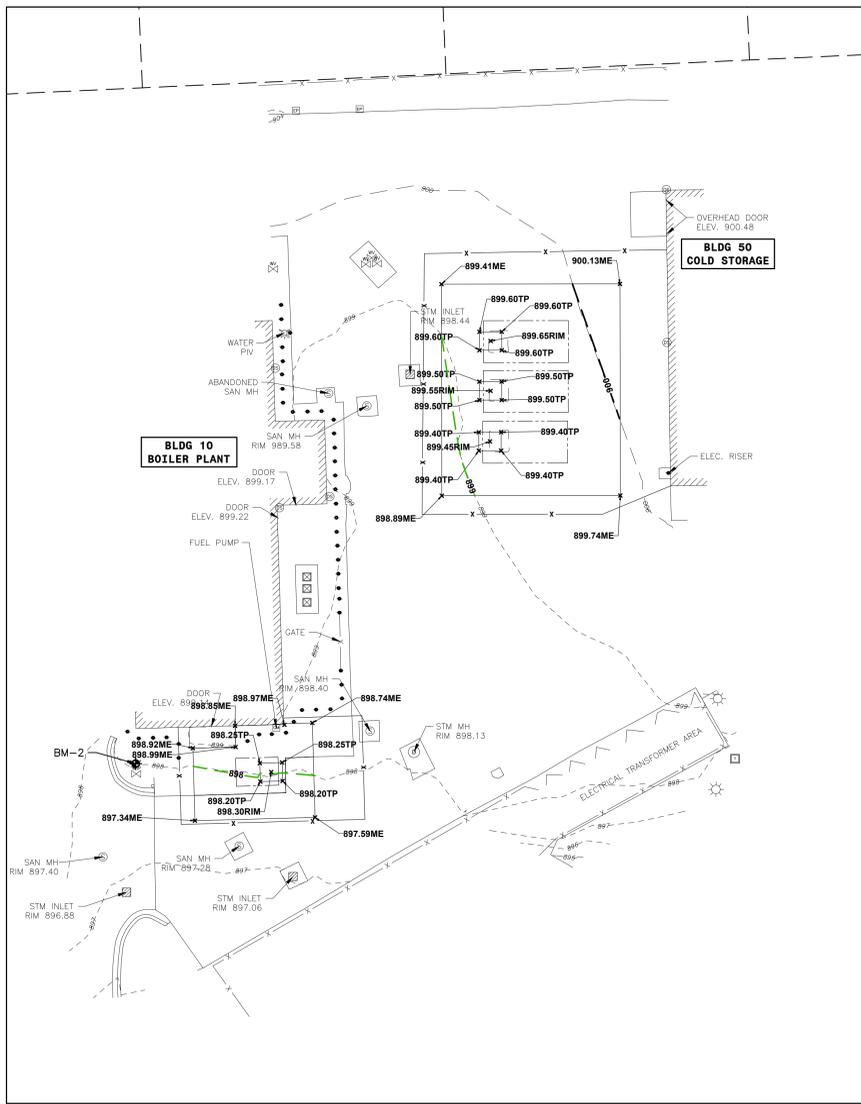


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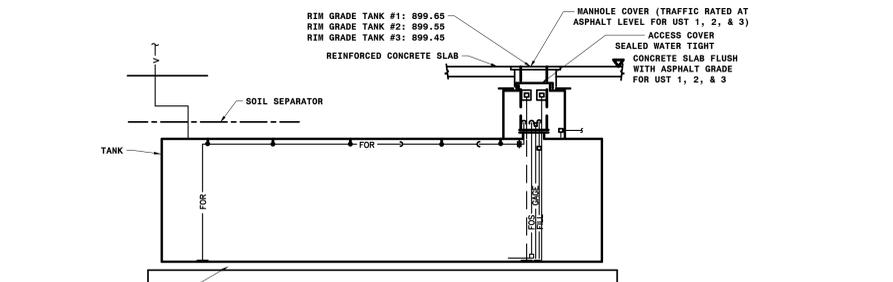
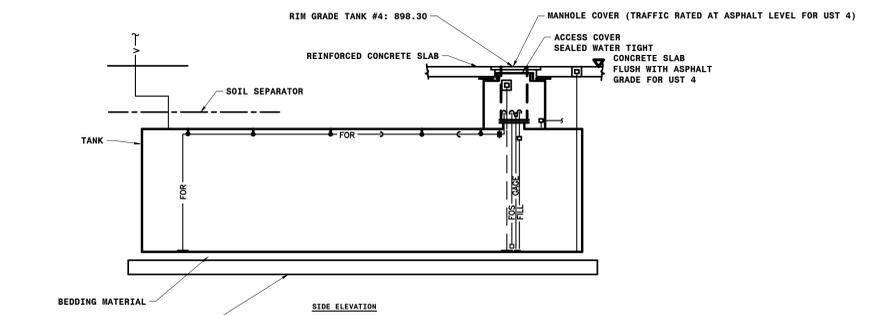
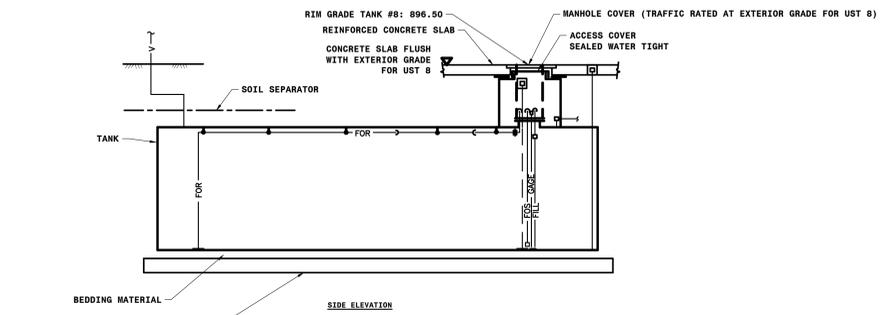
**SYMBOL LEGEND:**

---	EXISTING PROPERTY LINE	---	EXISTING SIGN
+	EXISTING HYDRANT/BENCHMARK	•	EXISTING BOLLARD
—+—+—	EXISTING HANDRAIL	○	EXISTING DECIDUOUS TREE/SHRUB
-x-x-	EXISTING FENCE	x	TEMPORARY SECURITY FENCE
---	EXISTING RETAINING WALL	—	NEW TEMPORARY JERSEY BARRIER
⊙	EXISTING STORM MANHOLE	900.00TP	NEW TOP OF PAVEMENT ELEVATION
⊙	EXISTING STORM INLET	900.00G	NEW GUTTER ELEVATION
⊙	EXISTING DOWNSPOUT	900.00TC	NEW TOP OF CURB ELEVATION
⊙	EXISTING SANITARY MANHOLE	900.00FG	NEW FINISHED GRADE ELEVATION
⊙	EXISTING CLEANOUT	900.00SW	NEW SIDEWALK ELEVATION
⊙	EXISTING WATER MANHOLE	900.00ME	MATCH EXISTING ELEVATION
⊙	EXISTING WATER GATE VALVE	1.0%	NEW SLOPE & DIRECTION OF FLOW
⊙	EXISTING LIGHT POLE	---	NEW CONTOUR LINE
⊙	EXISTING ELECTRICAL MANHOLE		
⊙	EXISTING COMMUNICATIONS VAULT		
⊙	EXISTING TRANSFORMER		
⊙	EXISTING ELECTRICAL PEDESTAL		
⊙	EXISTING GAS METER		



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100% BID DOCUMENTS

Revisions:	Date:

<b>CONSULTANT</b>	
PROTECTION ENGINEERING CONSULTANTS (PEC) 100 CREEK ROAD, SUITE 102 DRIPPING SPRINGS, TX 78620 PH: (512) 380-1988	MBN 503 7TH STREET, SUITE 200 FARGO, ND 58102 PH: (701) 478-6336
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**DESIGNER OF RECORD**

**FOURFRONT DESIGN INC**

517 7TH STREET  
RAPID CITY, SD 57701  
PH: (605) 342-9470  
POC: JARED LOTT

FFD PROJECT NO:  
19.2481.M21

**STAMP**

REGISTERED PROFESSIONAL ENGINEER  
DAVID K. BAKKE  
PE-6884  
DATE 08-28-25  
NORTH DAKOTA

Office of Construction and Facilities Management

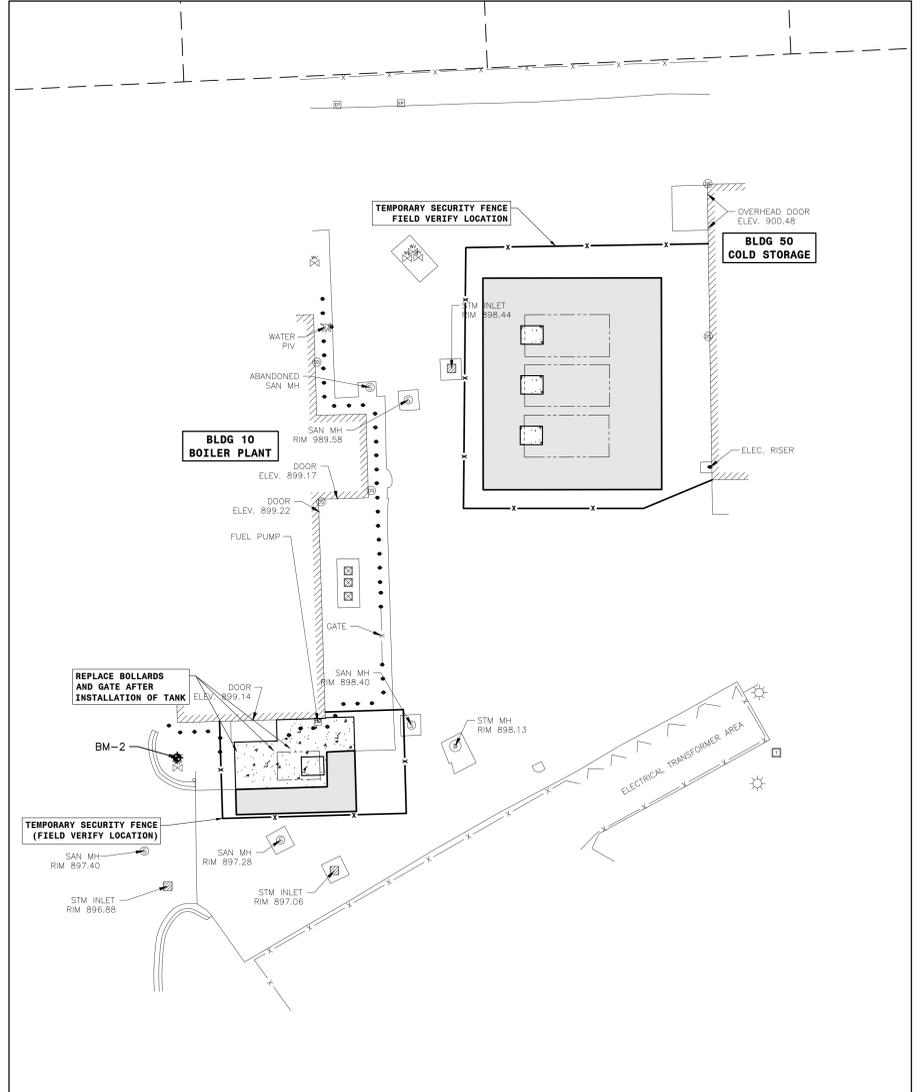
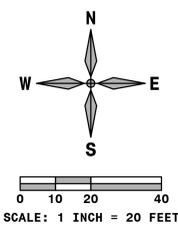
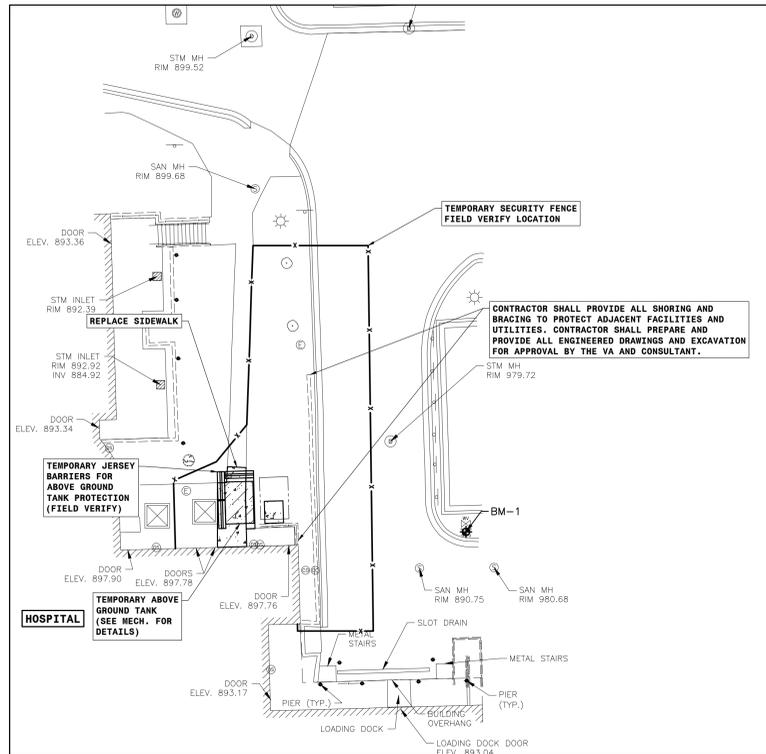
VA U.S. Department of Veterans Affairs

Drawing Title	Phase
GRADING PLAN	BID DOCUMENTS
Approved: Project Director	

Project Title	Project Number
Replace USTs and Leak Detection System Phase 2	437-24-101
Location	Building Number
2101 ELM STREET, FARGO, ND 58102	
Issue Date	Checked
08/28/2025	AKE
Drawn	BRC

Drawing Number	
C3.0	

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**SYMBOL LEGEND:**

---	EXISTING PROPERTY LINE	+	EXISTING SIGN
⊗	EXISTING HYDRANT/BENCHMARK	•	EXISTING BOLLARD
—x—x—	EXISTING HANDRAIL	⊙	EXISTING DECIDUOUS TREE/SHRUB
---	EXISTING FENCE	+	TEMPORARY SECURITY FENCE
---	EXISTING RETAINING WALL	+	NEW TEMPORARY JERSEY BARRIER
⊙	EXISTING STORM MANHOLE	+	NEW 6" ASPHALT PAVEMENT
⊙	EXISTING STORM INLET	+	NEW 6" REINFORCED CONCRETE PAVEMENT
⊙	EXISTING DOWNSPOUT		
⊙	EXISTING SANITARY MANHOLE		
⊙	EXISTING CLEANOUT		
⊙	EXISTING WATER MANHOLE		
⊙	EXISTING WATER GATE VALVE		
⊙	EXISTING LIGHT POLE		
⊙	EXISTING ELECTRICAL MANHOLE		
⊙	EXISTING COMMUNICATIONS VAULT		
⊙	EXISTING TRANSFORMER		
⊙	EXISTING ELECTRICAL PEDESTAL		
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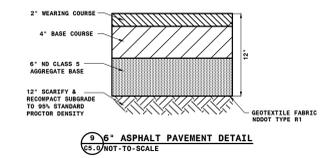
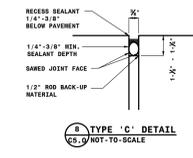
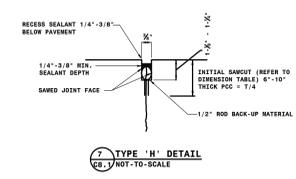
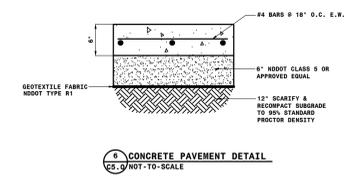
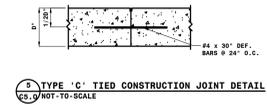
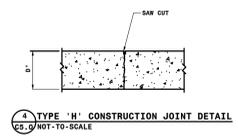
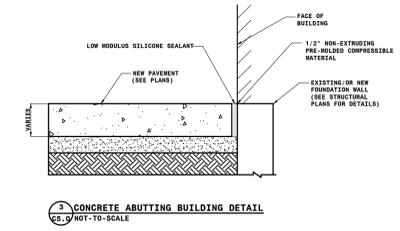
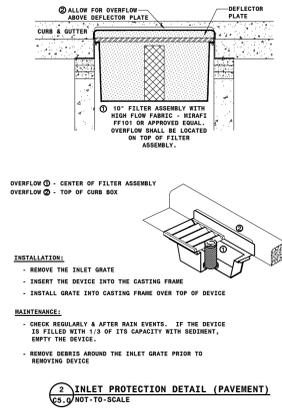
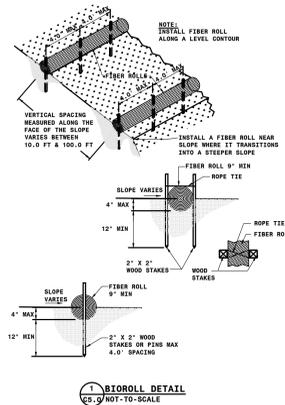
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100% BID DOCUMENTS

Revisions:	Date:

<b>CONSULTANT</b>	
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DESIGNER OF RECORD

**FOURFRONT**  
DESIGN INC

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RAPID CITY, SD 57701  
PH: (605) 342-0470  
POC: JARED LOTT

FFD PROJECT NO:  
19.2481.M21

STAMP

REGISTERED PROFESSIONAL ENGINEER  
JARED LOTT  
NORTH DAKOTA  
DATE 08-29-25

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase
DETAILS	BID DOCUMENTS
Approved: Project Director	

Project Title	Project Number
Replace USTs and Leak Detection System Phase 2	437-24-101
Location	Building Number
2101 ELM STREET, FARGO, ND 58102	
Issue Date	Checked
08/28/2025	AKE
Drawn	Drawn
BRC	

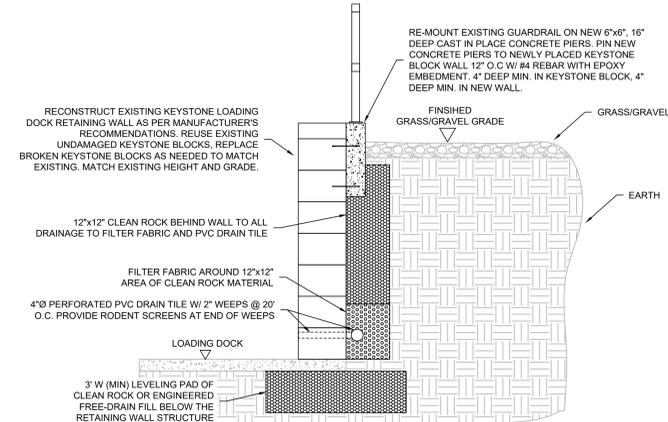
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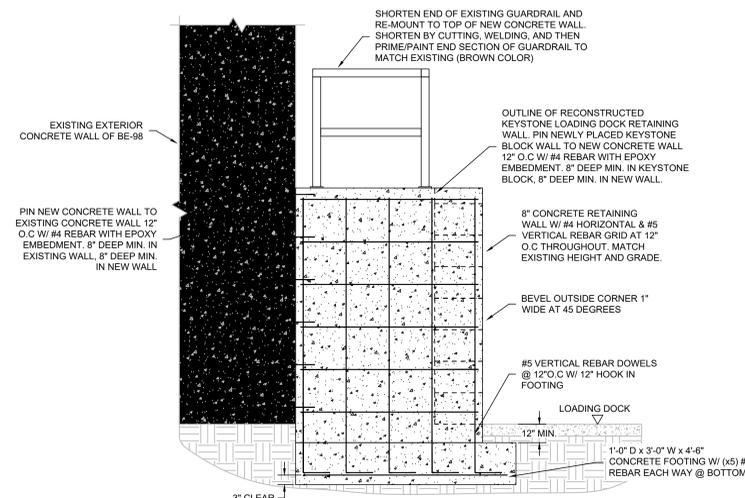
1 EXISTING SIDEWALK AND KEYSTONE WALL  
NTS



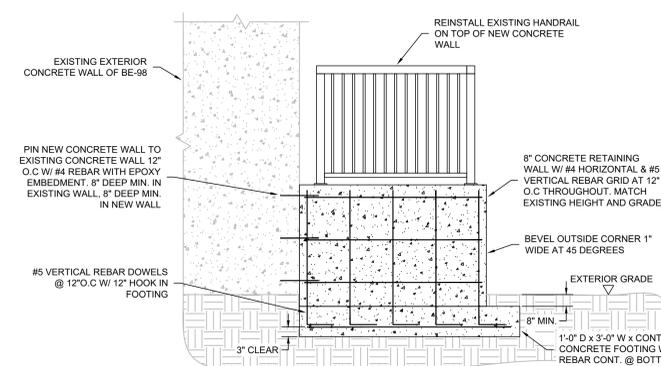
2 EXISTING LOADING DOCK KEYSTONE WALL  
NTS



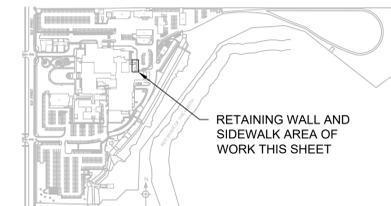
5 LOADING DOCK KEYSTONE RETAINING WALL DETAIL  
NTS



6 LOADING DOCK CONCRETE RETAINING WALL DETAIL  
NTS



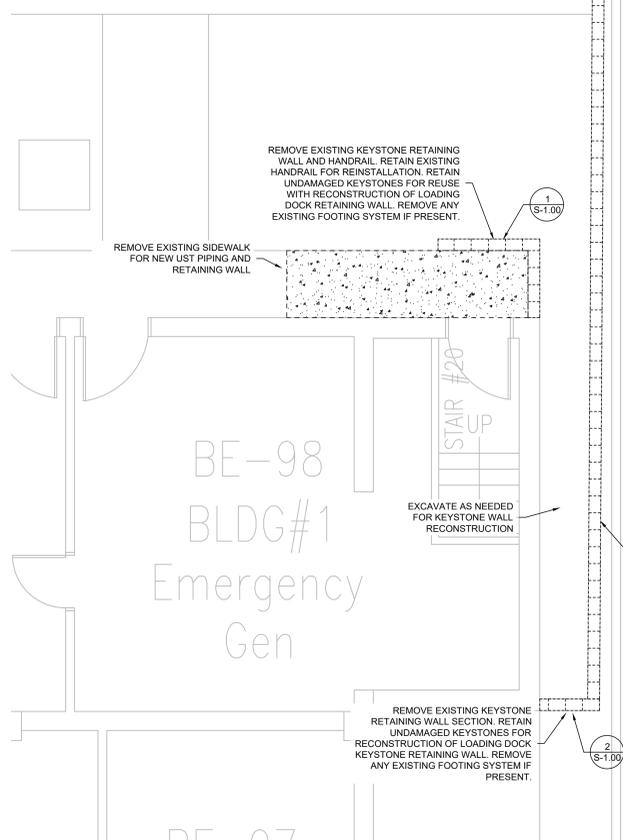
7 SIDEWALK CONCRETE RETAINING WALL DETAIL  
NTS



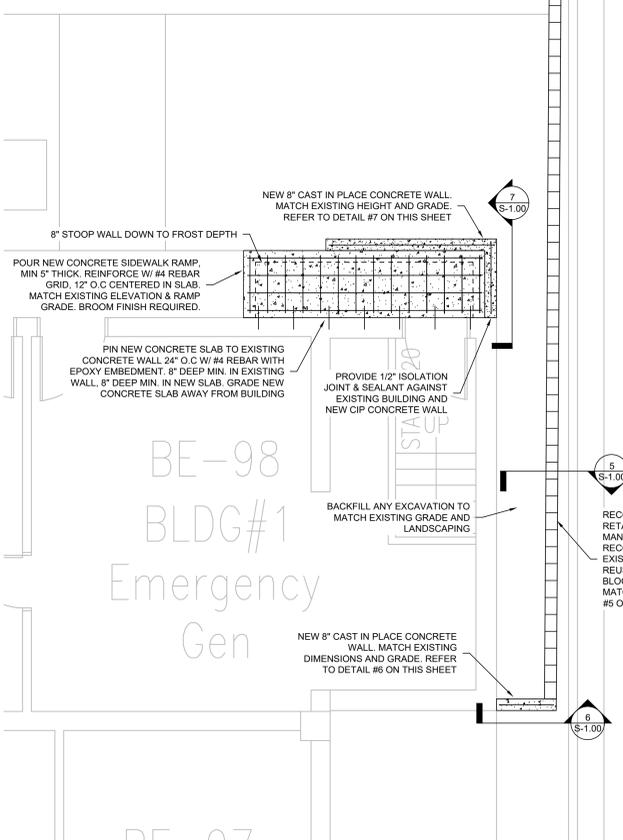
SITE KEY PLAN  
NTS

**GENERAL WORK NOTES**

- WALL RECONSTRUCTION WORK ON THIS SHEET IS TO BE CONSIDERED AS PRIMARY WORK RELATED TO THIS PROJECT.
- IF THE CONTRACTOR AND THE VA AGREE TO OTHER METHODS OF REPAIR FOR THE WALL THAT ACCOMMODATES EXCAVATION AND INSTALLATION OF JUST S, WITH THE SAME RESULTS AND QUALITY AS WORK SHOWN ON THIS PLAN, THE VA IS TO INITIATE/CONCUR FOR ALLOWANCE FOR LESSER EFFORT.



3 RETAINING WALL AND SIDEWALK DEMOLITION PLAN  
1/4" = 1'-0"



4 NEW RETAINING WALL AND SIDEWALK PLAN  
1/4" = 1'-0"

100% BID DOCUMENTS

<b>CONSULTANT</b> PROTECTION ENGINEERING CONSULTANTS (PEC) 100 CREEK ROAD, SUITE 102 DRIPPING SPRINGS, TX 78620 PH: (512) 380-1988 WESTERN WATER CONSULTANTS (WWC) 1275 MAPLE STREET, SUITE F HELENA, MT 59601 PH: (406) 443-3962		<b>DESIGNER OF RECORD</b> <b>FOURFRONT</b> DESIGN INC 517 7TH STREET RAPID CITY, SD 57701 PH: (605) 342-9470 POC: JARED LOTT		<b>STAMP</b> REGISTERED PROFESSIONAL ENGINEER RAYMOND DAWES PE 5984 08/28/2025 NORTH DAKOTA		Office of Construction and Facilities Management <b>VA</b> U.S. Department of Veterans Affairs		Drawing Title <b>RETAINING WALL AND SIDEWALK PLANS</b> Approved: Project Director		Phase <b>BID DOCUMENTS</b>		Project Title <b>Replace USTs and Leak Detection System Phase 2</b>		Project Number <b>437-24-101</b> Building Number	
Revisions: _____ Date: _____		FFD PROJECT NO: 19.2481.M21		Approved: Project Director		Location <b>2101 ELM STREET, FARGO, ND 58102</b>		Issue Date <b>08/28/2025</b>		Checked <b>PM</b>		Drawn <b>TK</b>		Drawing Number <b>S-1.00</b>	

**MECHANICAL ABBREVIATIONS:**

A/E ARCHITECT/ENGINEER	IMC INTERNATIONAL MECHANICAL CODE
AFF ABOVE FINISHED FLOOR	IPC INTERNATIONAL PLUMBING CODE
AHJ AUTHORITY HAVING JURISDICTION	K.O. COMMANDING OFFICER
ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS	L LENGTH
ATM ATMOSPHERIC PRESSURE	LBS POUNDS
BMS BUILDING MANAGEMENT SYSTEM	MAX MAXIMUM
CALC CALCULATED	MC MECHANICAL CONTRACTOR
COMLINK COMMUNICATION LINK	MECH MECHANICAL
COR CONTRACTING OFFICER'S REPRESENTATIVE	MFG MANUFACTURER
CNTRL CONTROL	MIN MINIMUM
CV CONTROL VALVE	MIN MINUTE
DEG DEGREES	PC PLUMBING CONTRACTOR
(E) EXISTING	PH PHASE
EC ELECTRICAL CONTRACTOR	PRESS. PRESSURE
ELECT. ELECTRICAL	PSIG POUNDS PER SQUARE INCH - GAUGE
ELEV ELEVATION	R RADIUS
F FAHRENHEIT	R RETURN
FOR FUEL OIL RETURN	RE RESIDENT ENGINEER
FOS FUEL OIL SUPPLY	S SUPPLY
FT FEET	SF SQUARE FEET
GAL GALLONS	SMACNA SHEET METAL AND AIR CONDITIONING CONTRACTORS ASSOCIATION
G.C. GENERAL CONTRACTOR	SPEC SPECIFICATION
GPM GALLONS PER MINUTE	TEMP TEMPERATURE
H HEIGHT	TYP TYPICAL
HP HORSEPOWER	V VENT
HR HOUR	V VOLTS
HVAC HEATING, VENTILATION, AND AIR CONDITIONING	VA VETERANS' AFFAIRS
Hz HERTZ	W WIDTH
IBC INTERNATIONAL BUILDING CODE	W/ WITH
IECC INTERNAIONAL ENERGY CONSERVATION CODE	

**MECHANICAL SYMBOLS**

	VARIABLE AIR VOLUME BOX (VAV) / TERMINAL UNIT (TU)		HWS HOT WATER SUPPLY
	WALL MOUNTED EXHAUST FAN		HWR HOT WATER RETURN
	DUCT HOT WATER REHEAT COIL		RHWS REHEAT HOT WATER SUPPLY
	HEAT EXCHANGER		RHWR REHEAT HOT WATER RETURN
	STEAM CONDENSATE PUMP		FOS FUEL OIL SUPPLY
	STEAM FLASH TANK		FOR FUEL OIL RETURN
	EXPANSION TANK		CHWS CHILLED WATER SUPPLY
	BALL VALVE		CHWR CHILLED WATER RETURN
	GATE VALVE		RL REFRIGERANT - LIQUID
	GLOBE VALVE		RS REFRIGERANT - SUCTION
	CHECK VALVE		STM-LP LOW PRESSURE STEAM
	MODULATING CONTROL VALVE		STM-MP MEDIUM PRESSURE STEAM
	PRESSURE REDUCING VALVE		STM-HP HIGH PRESSURE STEAM
	MANUAL BALANCING / SHUT-OFF VALVE		CDR-L LOW PRESSURE STEAM CONDENSATE RETURN
	PRESSURE GAUGE		CDR-M MEDIUM PRESSURE STEAM CONDENSATE RETURN
	TEMPERATURE GAUGE		CDR-H HIGH PRESSURE STEAM CONDENSATE RETURN
	MECHANICAL EQUIPMENT TAG WITH NUMBER DESIGNATION		PC PUMPED STEAM CONDENSATE RETURN
	THERMOSTAT		SBT STEAM BUCKET TRAP
	TEMPERATURE SENSOR		F&T FLOAT & THERMOSTATIC TRAP
	PRESSURE SENSOR		STT STEAM THERMOSTATIC TRAP
	DIFFERENTIAL PRESSURE SENSOR		S STRAINER
	HUMIDITY SENSOR		U UNION
	MECHANICAL PLAN NOTE		CRP CONCENTRIC PIPE REDUCER
	POINT OF CONNECTION		EPRP ECCENTRIC PIPE REDUCER
	POINT OF DISCONNECTION		PE PIPE ELBOW
	TO BE DEMOLISHED		PT PIE TEE
	SMOKE BARRIER		PD PIPE DOWN
	ONE HOUR FIRE BARRIER		PU PIPE UP
	TWO HOUR FIRE BARRIER		PTD PIPE TEE DOWN
	DIRECTION OF AIR FLOW		PTU PIPE TEE UP
	LIQUID FLOW DIRECTION		

**GENERAL MECHANICAL NOTES:**

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FOLLOWING:

- NORTH DAKOTA MECHANICAL CODE 2021 (IMC 2021 AMENDED)
- NORTH DAKOTA ENERGY CODE 2021 (IECC 2021 AMENDED)
- NORTH DAKOTA FIRE CODE 2021 (IFC 2021 AMENDED)
- NORTH DAKOTA FUEL GAS CODE 2021 (IFGC 2021 AMENDED)
- NORTH DAKOTA PLUMBING CODE 2018 (UPC 2018 AMENDED)
- VA HVAC DESIGN MANUAL (REV. MARCH 1, 2024)
- VA PLUMBING DESIGN MANUAL (REV. FEBRUARY 1, 2024)
- VA FIRE PROTECTION DESIGN MANUAL (REV. NOVEMBER 1, 2023)
- VA SPECIFICATIONS AND GUIDELINES
- ANY AUTHORITY HAVING JURISDICTION (AHJ).

THIS IS A FEDERAL PROJECT, AS SUCH ALL VA DESIGN GUIDES AND CODE REQUIREMENTS ARE REQUIRED.

CONTRACTOR IS TO VERIFY ALL DRAWING INFORMATION PRIOR TO STARTING WORK. MINOR CHANGES IN ROUTING IS EXPECTED. WHERE WORK VARIES GREATLY FROM THE PLANS CONTRACTOR SHALL CONTACT THE A/E IMMEDIATELY BEFORE STARTING WORK.

EXCEPT WHERE INDICATED, ALL EQUIPMENT, MATERIALS, AND ARTICLES INCORPORATED IN THE WORK SHALL BE NEW AND OF COMPARABLE QUALITY AS SPECIFIED. ALL WORKMANSHIP SHALL BE FIRST-CLASS AND SHALL BE PERFORMED BY PERSONNEL SKILLED AND REGULARLY EMPLOYED IN THEIR RESPECTIVE TRADES. ITEMS REUSED AND/OR RELOCATED SHALL BE BROUGHT TO LIKE NEW CONDITION PRIOR TO BEING PLACED INTO SERVICE.

ALL WORK SHALL BE COORDINATED WITH ALL AFFECTED DISCIPLINES AND TRADES PRIOR TO STARTING WORK. REWORK REQUIRED DUE TO COORDINATION ISSUES SHALL BE DONE BY THE INSTALLATION CONTRACTOR WITHOUT INCREASED COST TO THE OWNER.

SYSTEMS DESIGNATED TO BE PROVIDED AND INSTALLED WITHIN THESE CONTRACT DOCUMENTS ARE INTENDED TO BE COMPLETE AND OPERATIONAL. PROVIDE EVERYTHING ESSENTIAL FOR THE COMPLETION OF THE WORK TO MAKE THE SYSTEM READY FOR NORMAL AND PROPER OPERATION. THIS INCLUDES ALL WORK OR MATERIALS NOT DIRECTLY SHOWN ON THE DRAWINGS OR IN THE SPECIFICATIONS, BUT NECESSARY FOR THE PROPER OPERATION OF THE SYSTEM.

IN GENERAL IT IS THE INTENT OF THESE DRAWINGS: ITEMS INSTALLED WHERE THE STRUCTURE IS EXPOSED - INSTALLED AS HIGH AS POSSIBLE. ALL VALVES AND CONTROL DEVICES SHOULD BE INSTALLED AS LOW AS POSSIBLE OR WHERE IT WILL BE MAINTAINABLE FROM A LADDER OR LIFT. CLOSE COORDINATION WILL BE REQUIRED IN ORDER TO AVOID ALL CONFLICTS.

ALL DUCT TO BE GALVANIZED STEEL. EXPOSED DUCT SHALL BE OF SPIRAL CONSTRUCTION.

ALL SQUARE THROAT DUCT ELBOWS WITH ANY DIMENSIONS LARGER THAN 6" SHALL HAVE TURNING VANES, WHETHER SHOWN ON THE PLANS OR NOT.

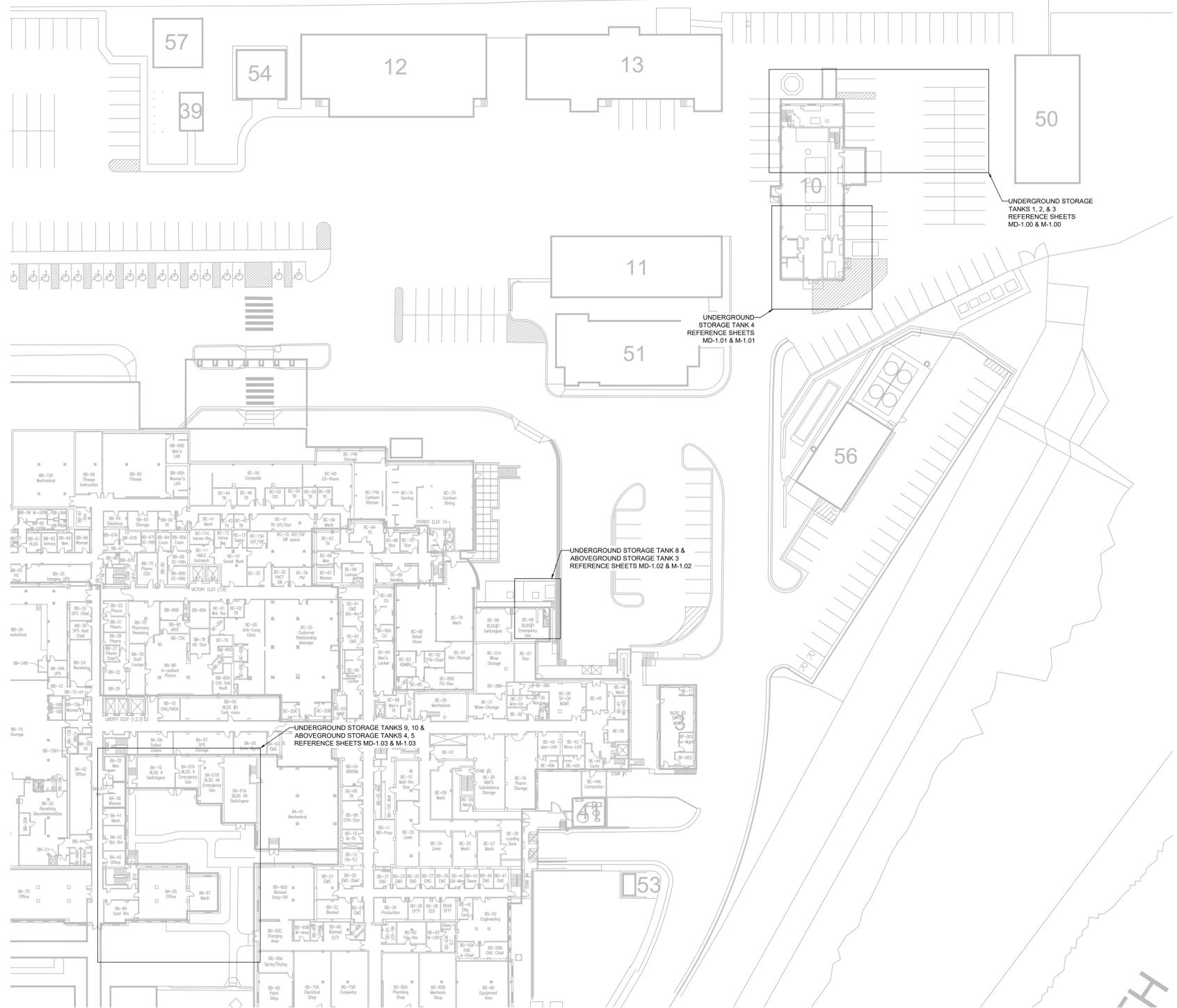
MANUFACTURERS/MODEL NUMBERS INDICATED ON DRAWINGS ARE BASIS OF DESIGN. OTHER MANUFACTURERS/MODEL NUMBERS WILL BE ACCEPTED PROVIDING THEY MEET SPECIFICATIONS AND PERFORMANCE REQUIREMENTS OF THE BASIS OF DESIGN. CONTRACTORS SHALL COMMUNICATE WITH PRODUCT VENDORS ON LEAD TIMES, AND SHALL SELECT UNITS THAT MOST CLOSELY COMPLY WITH THE PROJECT SCHEDULE REQUIREMENTS.

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**100% BID DOCUMENTS**

<p><b>CONSULTANT</b></p> <p>PROTECTION ENGINEERING CONSULTANTS (PEC) 100 CREEK ROAD, SUITE 102 DRIPPING SPRINGS, TX 78620 PH: (512) 380-1988</p> <p>WESTERN WATER CONSULTANTS (WWC) 1275 MAPLE STREET, SUITE F HELENA, MT 59601 PH: (406) 443-3962</p>		<p><b>DESIGNER OF RECORD</b></p> <p><b>FOURFRONT DESIGN INC</b></p> <p>517 7TH STREET RAPID CITY, SD 57701 PH: (605) 342-9470 POC: JARED LOTT</p> <p>FFD PROJECT NO: 19.2481.M21</p>		<p><b>STAMP</b></p> <p>REGISTERED PROFESSIONAL ENGINEER RAYMOND DAWES PELSCHIG 08/28/2025 NORTH DAKOTA</p>		<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>		<p>Drawing Title <b>MECHANICAL COVER SHEET</b></p> <p>Approved: Project Director</p>		<p>Phase <b>BID DOCUMENTS</b></p>		<p>Project Title <b>Replace USTs and Leak Detection System Phase 2</b></p> <p>Location 2101 ELM STREET, FARGO, ND 58102</p> <p>Issue Date 08/28/2025</p> <p>Checked PM</p> <p>Drawn TK</p>		<p>Project Number 437-24-101</p> <p>Building Number</p> <p>Drawing Number <b>M-0.00</b></p>	
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File Path



**SITE PLAN NOTES**

- THIS SHEET SHOWS THE AREAS OF WORK FOR FARGO UNDERGROUND STORAGE TANKS (UST) & ABOVEGROUND STORAGE TANKS (AST) THAT WORK WILL BE PERFORMED ON. THIS SHEET ALSO SHOWS THE AREAS OF WORK FOR USTs, ASTs, MONITORING PANELS & LEAK DETECTION SENSORS THAT WILL BE REPLACED OR MODIFIED. SEE FOLLOWING SHEETS TO SEE WHAT WORK IS PERFORMED AT EACH LOCATION.

**NOTE TO OWNER**

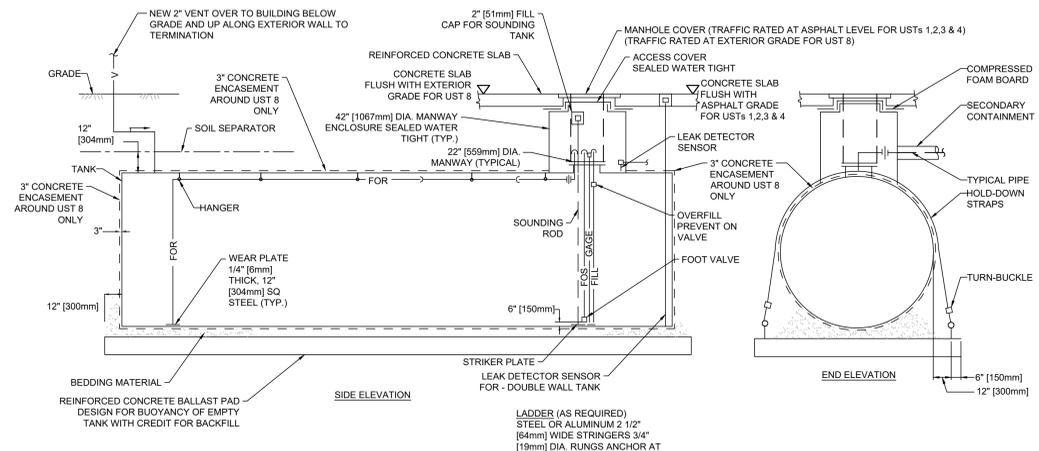
- OWNER IS TO REQUEST PROJECT CLOSURE 30 DAYS PRIOR TO COMPLETION.
- OWNER TO COORDINATE WITH FARGO FIRE DEPARTMENT TO BE ON SITE FOR DEMOLITION AND INSTALLATION OF USTs AND ASTs.

**SITE PLAN**  
1/32" = 1'-0"

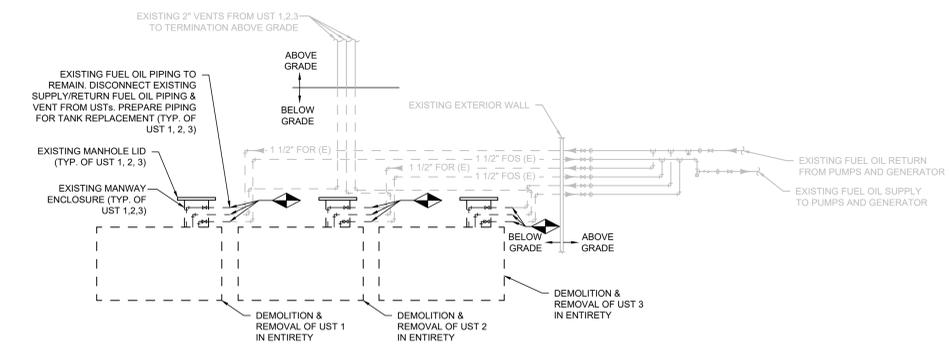
100% BID DOCUMENTS

<b>CONSULTANT</b> PROTECTION ENGINEERING CONSULTANTS (PEC) 100 CREEK ROAD, SUITE 102 DRIPPING SPRINGS, TX 78620 PH: (512) 380-1988  WESTERN WATER CONSULTANTS (WWC) 1275 MAPLE STREET, SUITE F HELENA, MT 59601 PH: (406) 443-3962	MBN 503 7TH STREET, SUITE 200 FARGO, ND 58102 PH: (701) 478-6336  ENVIROS 220 RAMSEY STREET HASTINGS, MN 55033 PH: (651) 319-0170	<b>DESIGNER OF RECORD</b> <b>FOURFRONT</b> DESIGN INC  517 7TH STREET RAPID CITY, SD 57701 PH: (605) 342-0470 POC: JARED LOTT	<b>STAMP</b> 	Office of Construction and Facilities Management  <b>VA</b> U.S. Department of Veterans Affairs	Drawing Title <b>SITE PLAN</b>	Phase <b>BID DOCUMENTS</b>	Project Title Replace USTs and Leak Detection System Phase 2	Project Number 437-24-101 Building Number
					Approved: Project Director	Location 2101 ELM STREET, FARGO, ND 58102	Issue Date 08/28/2025	Checked PM

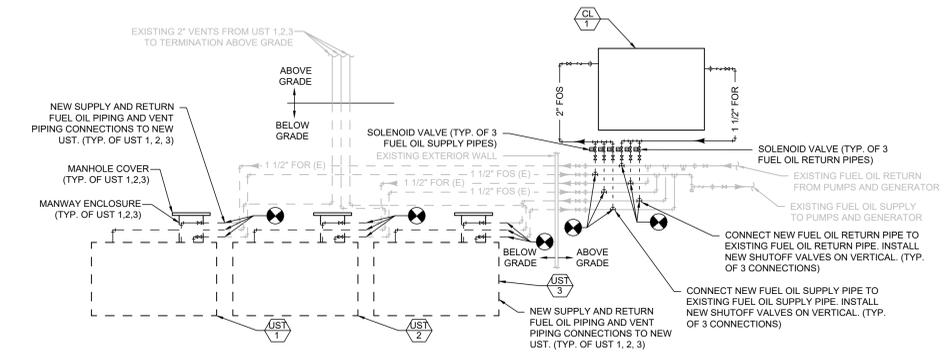
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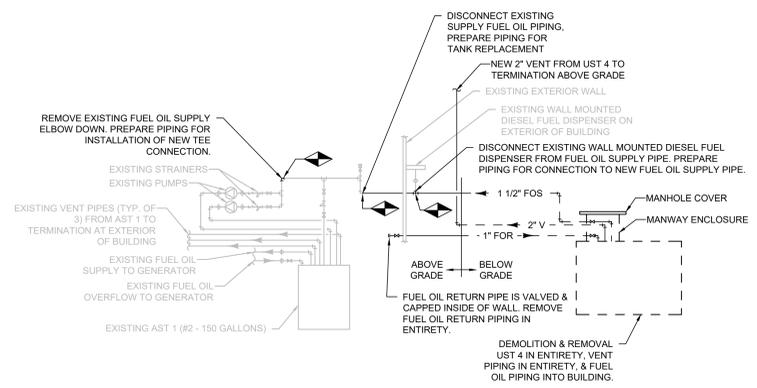
1 NEW UNDERGROUND DOUBLE WALL FUEL OIL STORAGE TANK 1,2,3,4 & 8 NTS



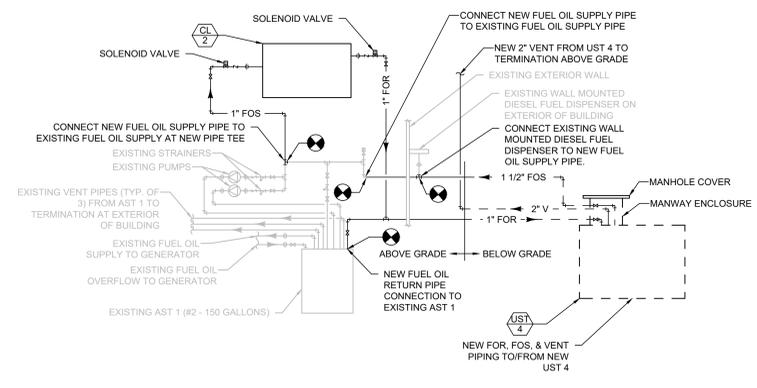
2 DEMOLITION UST 1,2,3 FUEL OIL PIPING SINGLE LINE SCHEMATIC NTS



3 NEW UST 1,2,3 & CLARIFIER 1 FUEL OIL PIPING SINGLE LINE SCHEMATIC NTS



4 DEMOLITION UST 4 FUEL OIL PIPING SINGLE LINE SCHEMATIC NTS



5 NEW UST 4 & CLARIFIER 2 FUEL OIL PIPING SINGLE LINE SCHEMATIC NTS

**GENERAL MECHANICAL NOTES**

- EQUIPMENT & PIPING SHOWN IN GRAY ARE EXISTING AND TO REMAIN.
- PIPING & EQUIPMENT SHOWN WITH DASHED LINES ARE BELOW GRADE.
- MECHANICAL PLANS ARE DIAGRAMMATIC. CONTRACTOR TO COORDINATE FINAL PIPE ROUTING AND FINAL EQUIPMENT MOUNTING LOCATIONS.
- COORDINATE ALL WORK WITH ALL RELEVANT DISCIPLINES AND TRADES.

**PIPE KEY**

- 1" FOS FUEL OIL SUPPLY PIPING
- 1" FOR FUEL OIL RETURN PIPING
- 1" V VENT PIPING

NOTE: DASHED LINES INDICATE BELOW GRADE PIPING.

**NOTE TO OWNER**

- OWNER IS TO REQUEST PROJECT CLOSURE 30 DAYS PRIOR TO COMPLETION.
- OWNER TO COORDINATE WITH FARGO FIRE DEPARTMENT TO BE ON SITE FOR DEMOLITION AND INSTALLATION OF USTs AND ASTs.

ITEM NO.	CAPACITY (GALLONS)	FUEL TYPE	DIAMETER (INCHES)	HEIGHT (FEET)	MANUFACTURER & MODEL	REMARKS
UST-1	20,000	#2 DIESEL	12" 24"	ATM 18,000		1
UST-2	20,000	#2 DIESEL	12" 24"	ATM 18,000		1
UST-3	20,000	#2 DIESEL	12" 24"	ATM 18,000		1
UST-4	4,000	#2 DIESEL	8" 12"	ATM 5,100		2
UST-8	4,000	#2 DIESEL	8" 12"	ATM 5,100		2

NOTES:  
 1. REFER TO DETAIL 1 ON SHEET M-0.20 FOR TANK CONFIGURATION AND CONNECTION DIAGRAM.  
 2. REFER TO DETAIL 2 ON SHEET M-0.20 FOR TANK CONFIGURATION AND CONNECTION DIAGRAM.

ITEM NO.	CAPACITY (GALLONS)	FUEL TYPE	DIAMETER (INCHES)	HEIGHT (FEET)	MANUFACTURER & MODEL	REMARKS
AST-3	75	#2 DIESEL	24" 24" 31"	ATM 1031		1,2
AST-4	200	#2 DIESEL	48" 24" 44"	ATM 2367		1,3
AST-5	150	#2 DIESEL	36" 24" 44"	ATM 1871		1,2

NOTES:  
 1. PROVIDE WITH DOUBLE WALL, 150% CONTAINMENT BASIN.  
 2. PROVIDE WITH 2000PLUS ELECTRONIC CONTROL MODULE WITH DUPLEX SUPPLY PUMPS.  
 3. PROVIDE WITH 2000PLUS ELECTRONIC CONTROL MODULE WITH SINGLE SUPPLY PUMP.

EQUIP. NO.	NAME	MANUFACTURER	TYPE AND MODEL	OPTIONS/ACCESSORIES
MLD-1	UST 8, AST 3		120-1-60 1.5 9" 10.25" 11.75" WALL MOUNTED	1,2,3
MLD-2	UST 9, 10, AST 4, 5		120-1-60 1.5 9" 10.25" 11.75" WALL MOUNTED	1,2,3

NOTES:  
 1. LOCATE MONITORING & LEAK DETECTION PANEL 5 FEET ABOVE FLOOR.  
 2. PROVIDE ALL REQUIRED SENSORS, PROBES AND FLOATS FOR COMPLETE MONITORING SYSTEM.  
 3. INTEGRATE MONITORING & LEAK DETECTION PANEL INTO EXISTING FARGO BAS. VIA MODBUS.

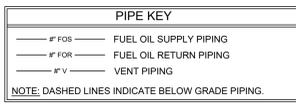
ITEM NO.	NAME	MANUFACTURER	TYPE AND MODEL	OPTIONS/ACCESSORIES
CL-1	UST 1, 2, 3		56" 72" 11.7" 22" 11.75" 5" 2403-3-60	1,2,5
CL-2	UST 4, AST 1		10 37" 60" 12" 1" 1" 3/4 120-1-60	1,3,4
CL-3	UST 8, AST 3		513 10 37" 60" 12" 1" 1" 3/4 120-1-60	1,3,4
CL-4	UST 9, 10, AST 4, 5		513 10 37" 60" 12" 1" 1" 3/4 120-1-60	1,2,4

NOTES:  
 1. SET CLARIFIER TO 11 TO 22 HOURS TO CLARIFY A TANK.  
 2. PROVIDE WITH FACTORY AUTO WATER DRAIN (AWD) AND MULTI-TANK POLISHING/TRANSFER SYSTEM OPTIONS.  
 3. PROVIDE WITH FACTORY AUTO WATER DRAIN (AWD).  
 4. PROVIDE WITH FACTORY SF70 SYSTEM CONTROLLER.  
 5. PROVIDE WITH FACTORY TSC80 SYSTEM CONTROLLER.

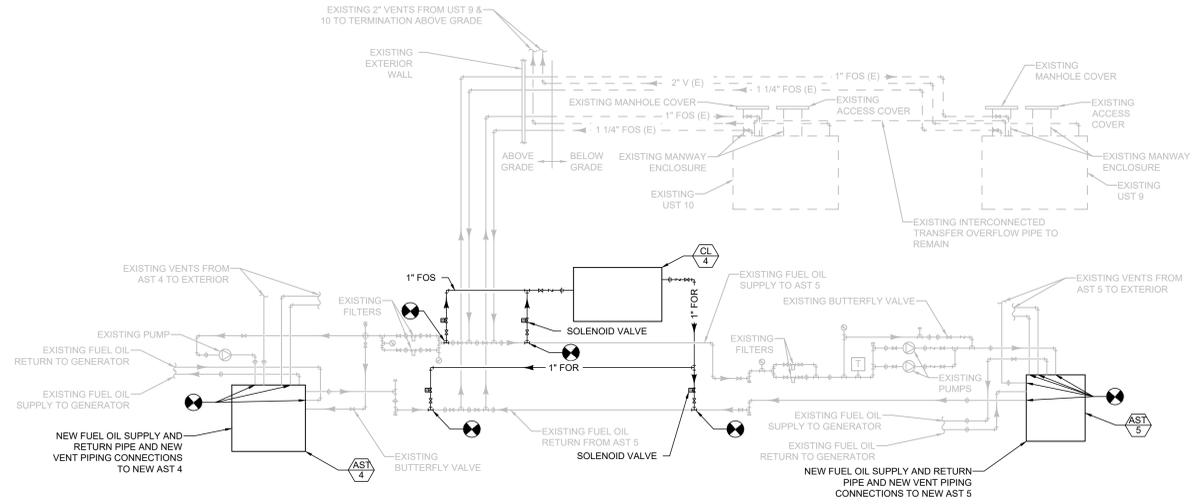
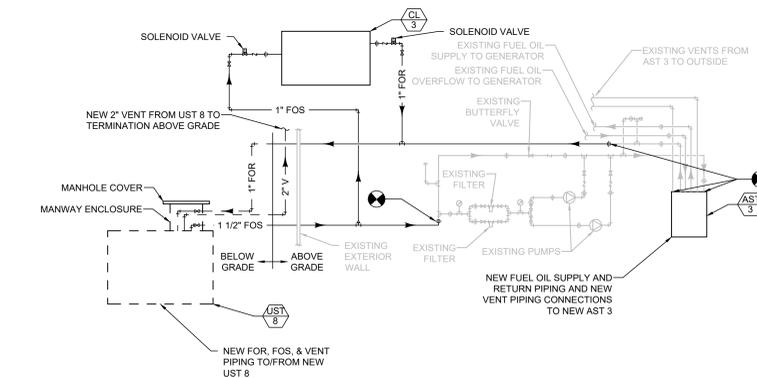
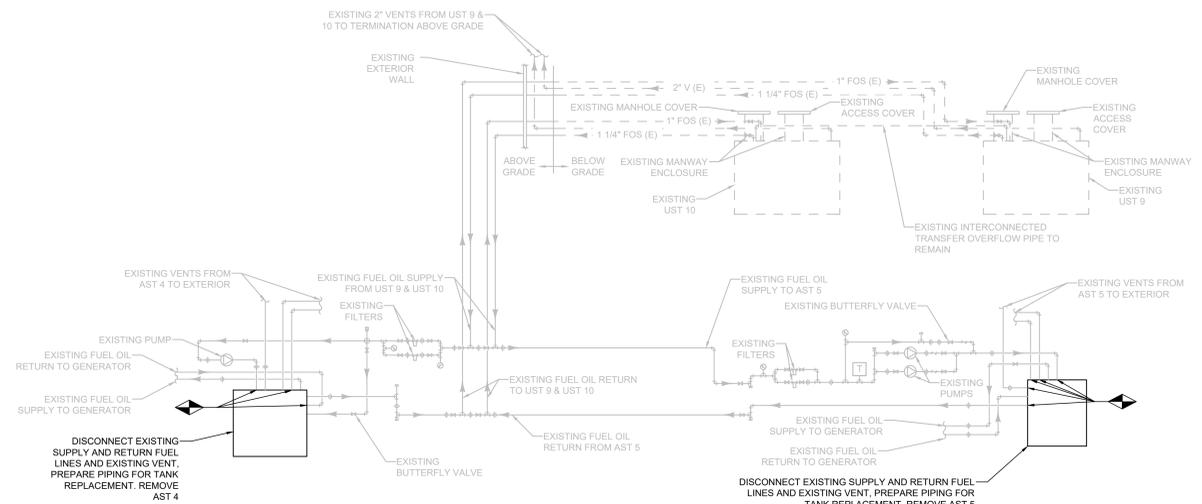
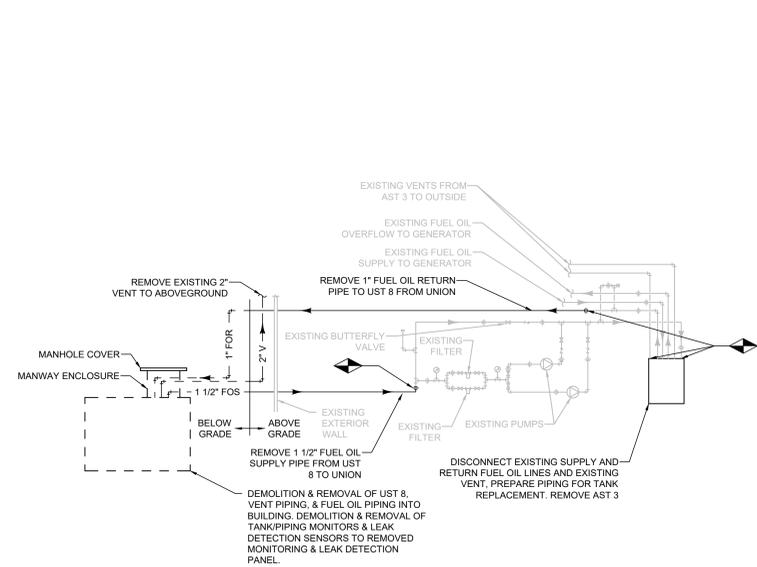
100% BID DOCUMENTS

<p><b>CONSULTANT</b></p> <p>PROTECTION ENGINEERING CONSULTANTS (PEC)                  100 CREEK ROAD, SUITE 102                  DRIPPING SPRINGS, TX 78620                  PH: (512) 380-1988</p> <p>WESTERN WATER CONSULTANTS (WWC)                  1275 MAPLE STREET, SUITE F                  HELENA, MT 59601                  PH: (406) 443-3962</p>	<p><b>DESIGNER OF RECORD</b></p> <p><b>FOURFRONT DESIGN INC</b></p> <p>517 7TH STREET                  RAPID CITY, SD 57701                  PH: (605) 342-9470                  POC: JARED LOTT</p>	<p><b>Office of Construction and Facilities Management</b></p> <p>U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p><b>MECHANICAL SCHEDULES &amp; DETAILS</b></p>	<p>Phase</p> <p><b>BID DOCUMENTS</b></p>	<p>Project Title</p> <p><b>Replace USTs and Leak Detection System Phase 2</b></p>	<p>Project Number</p> <p>437-24-101</p>
			<p>Approved: Project Director</p>	<p>Location</p> <p>2101 ELM STREET, FARGO, ND 58102</p>	<p>Issue Date</p> <p>08/28/2025</p>	<p>Checked</p> <p>PM</p>

- GENERAL MECHANICAL NOTES**
- EQUIPMENT & PIPING SHOWN IN GRAY ARE EXISTING AND TO REMAIN.
  - PIPING & EQUIPMENT SHOWN WITH DASHED LINES ARE BELOW GRADE.
  - MECHANICAL PLANS ARE DIAGRAMMATIC. CONTRACTOR TO COORDINATE FINAL PIPE ROUTING AND FINAL EQUIPMENT MOUNTING LOCATIONS.
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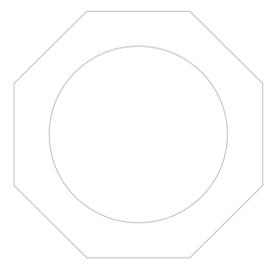


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**100% BID DOCUMENTS**

Revisions: _____ Date: _____ File Path: 11/15/2022 11:30:03 AM	<b>CONSULTANT</b> PROTECTION ENGINEERING CONSULTANTS (PEC) 100 CREEK ROAD, SUITE 102 DRIPPING SPRINGS, TX 78620 PH: (512) 380-1988 WESTERN WATER CONSULTANTS (WWC) 1275 MAPLE STREET, SUITE F HELENA, MT 59601 PH: (406) 443-3962	MBN 503 7TH STREET, SUITE 200 FARGO, ND 58102 PH: (701) 478-6336 ENVIROS 220 RAMSEY STREET HASTINGS, MN 55033 PH: (651) 319-0170	<b>DESIGNER OF RECORD</b> <b>FOURFRONT</b> DESIGN INC 517 7TH STREET RAPID CITY, SD 57701 PH: (605) 342-9470 POC: JARED LOTT FFD PROJECT NO: 19.2481.M21	<b>STAMP</b> REGISTERED PROFESSIONAL ENGINEER RAYMOND DAWES P.E. No. 19284 08/28/2025 NORTH DAKOTA	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title <b>MECHANICAL DETAILS</b> Approved: Project Director	Phase <b>BID DOCUMENTS</b>	Project Title <b>Replace USTs and Leak          Detection System Phase 2</b>	Project Number 437-24-101 Building Number  Drawing Number <b>M-0.30</b>
	Location 2101 ELM STREET, FARGO, ND 58102 Issue Date 08/28/2025 Checked PM Drawn TK								



**GENERAL MECHANICAL NOTES**

- EQUIPMENT & PIPING SHOWN IN GRAY ARE EXISTING AND TO REMAIN.
- PIPING & EQUIPMENT SHOWN WITH DASHED LINES ARE BELOW GRADE.
- MECHANICAL PLANS ARE DIAGRAMMATIC. CONTRACTOR TO COORDINATE FINAL PIPE ROUTING AND FINAL EQUIPMENT MOUNTING LOCATIONS.
- COORDINATE ALL WORK WITH ALL RELEVANT DISCIPLINES AND TRADES.

**PIPE KEY**

- 1" FOS — FUEL OIL SUPPLY PIPING
- 1" FOR — FUEL OIL RETURN PIPING
- 1" V — VENT PIPING

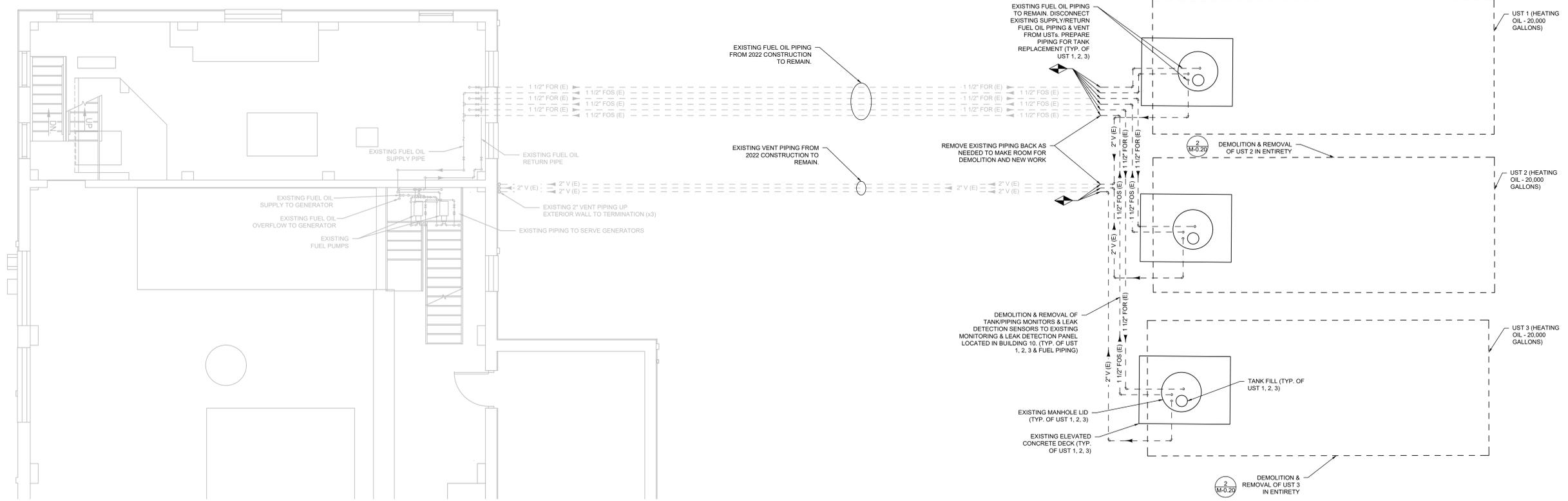
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**NOTE TO OWNER**

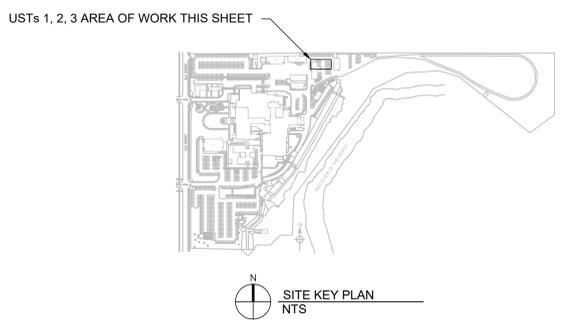
- OWNER IS TO REQUEST PROJECT CLOSURE 30 DAYS PRIOR TO COMPLETION.
- OWNER TO COORDINATE WITH FARGO FIRE DEPARTMENT TO BE ON SITE FOR DEMOLITION AND INSTALLATION OF USTs AND ASTs.

**USTs 1, 2, 3 NOTES**

- BEFORE DEMOLITION BEGINS, ALL OF THE FUEL FROM ONE UST TANK IS TO BE TRANSFERRED TO THE OTHER TWO EXISTING USTs. DEMOLITION WORK IS TO BE PERFORMED ON ONE UST & FUEL OIL PIPING & TANK MONITOR & LEAK DETECTION SENSORS AT A TIME. ONCE THE NEW UST IS REPLACED, FUEL WILL BE TRANSFERRED INTO THE NEW UST & ONE EXISTING UST BEFORE WORK BEGINS ON ANOTHER UST. THIS PROCESS IS TO BE CONTINUED UNTIL ALL THREE USTs ARE REPLACED.
- DEMOLITION AND REMOVAL OF MONITORS & LEAK DETECTION SENSORS TO BE PERFORMED ON EACH USTs FUEL OIL PIPING WHEN THAT UST IS UNDER REPLACEMENT.



1 UNDERGROUND STORAGE TANKS 1, 2 & 3 DEMOLITION PLAN  
1/4" = 1'-0"



100% BID DOCUMENTS

Revisions: Date:	<b>CONSULTANT</b> PROTECTION ENGINEERING CONSULTANTS (PEC) 100 CREEK ROAD, SUITE 102 DRIPPING SPRINGS, TX 78620 PH: (512) 380-1988 WESTERN WATER CONSULTANTS (WWC) 1275 MAPLE STREET, SUITE F HELENA, MT 59601 PH: (406) 443-3962	MBN 503 7TH STREET, SUITE 200 FARGO, ND 58102 PH: (701) 478-6336 ENVIROS 220 RAMSEY STREET HASTINGS, MN 55033 PH: (651) 319-0170	<b>DESIGNER OF RECORD</b> <b>FOURFRONT</b> DESIGN INC 517 7TH STREET RAPID CITY, SD 57701 PH: (605) 342-9470 POC: JARED LOTT FFD PROJECT NO: 19.2481.M21	STAMP 	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title UNDERGROUND STORAGE TANKS 1, 2 & 3 DEMOLITION PLAN Approved: Project Director	Phase BID DOCUMENTS	Project Title Replace USTs and Leak Detection System Phase 2 Location 2101 ELM STREET, FARGO, ND 58102 Issue Date 08/28/2025	Project Number 437-24-101 Building Number Drawing Number MD-1.00
	Checked PM	Drawn TK							

- GENERAL MECHANICAL NOTES**
- EQUIPMENT & PIPING SHOWN IN GRAY ARE EXISTING AND TO REMAIN
  - PIPING & EQUIPMENT SHOWN WITH DASHED LINES ARE BELOW GRADE
  - MECHANICAL PLANS ARE DIAGRAMMATIC. CONTRACTOR TO COORDINATE FINAL PIPE ROUTING AND FINAL EQUIPMENT MOUNTING LOCATIONS.
  - COORDINATE ALL WORK WITH ALL RELEVANT DISCIPLINES AND TRADES.

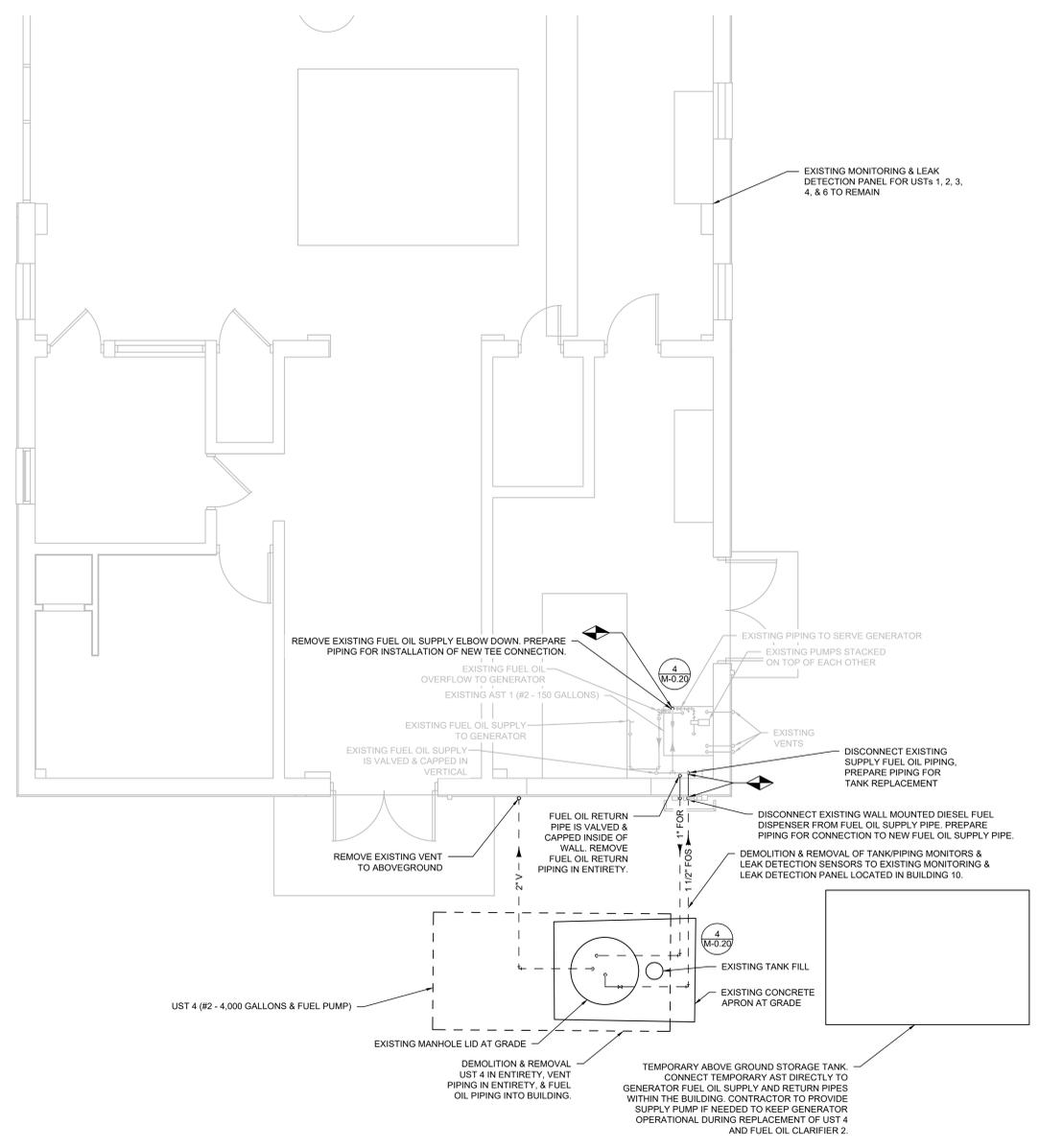
**PIPE KEY**

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—# FOR—	FUEL OIL RETURN PIPING
—# V—	VENT PIPING

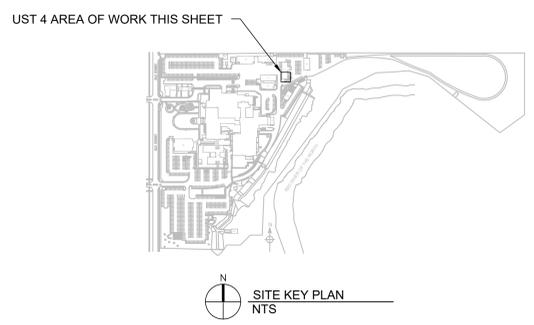
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  - OWNER TO COORDINATE WITH FARGO FIRE DEPARTMENT TO BE ON SITE FOR DEMOLITION AND INSTALLATION OF USTs AND ASTs.

- UST 4 NOTES**
- BEFORE DEMOLITION BEGINS, A TEMPORARY AST IS TO BE INSTALLED OUTSIDE OF BUILDING 10. FUEL OIL FROM UST 4 IS TO BE TRANSFERRED INTO TEMPORARY AST. BEFORE WORK BEGINS ON UST 4, TEMPORARY AST TO BE CONNECTED DIRECTLY TO THE GENERATOR FUEL OIL SUPPLY/RETURN PIPING WITHIN THE BUILDING. CONTRACTOR TO PROVIDE SUPPLY PUMP IF NEEDED TO KEEP GENERATOR OPERATIONAL DURING REPLACEMENT OF UST 4 AND FUEL OIL CLARIFIER 2.
  - DEMOLITION AND REMOVAL OF UST 4, FUEL OIL SUPPLY/RETURN PIPING INTO BUILDING, VENT PIPING, AND MONITORS & LEAK DETECTION SENSORS TO EXISTING MONITORING & LEAK DETECTION PANEL TO BE EXECUTED. EXISTING PIPING AT DISCONNECTION POINTS TO BE PREPARED FOR CONNECTION TO NEW PIPES.
  - THE SAME ABOVEGROUND STORAGE TANK IS TO BE USED IN THE REPLACEMENT OF UST 4 AND UST 8.



1 UNDERGROUND STORAGE TANK 4 DEMOLITION PLAN  
1/4" = 1'-0"



100% BID DOCUMENTS

<p><b>CONSULTANT</b></p> <p>PROTECTION ENGINEERING CONSULTANTS (PEC) 100 CREEK ROAD, SUITE 102 DRIPPING SPRINGS, TX 78620 PH: (512) 380-1988</p> <p>WESTERN WATER CONSULTANTS (WWC) 1275 MAPLE STREET, SUITE F HELENA, MT 59601 PH: (406) 443-3962</p>		<p><b>DESIGNER OF RECORD</b></p> <p><b>FOURFRONT DESIGN INC</b></p> <p>517 7TH STREET RAPID CITY, SD 57701 PH: (605) 342-9470 POC: JARED LOTT</p> <p>FFD PROJECT NO: 19.2481.M21</p>		<p><b>STAMP</b></p> <p>REGISTERED PROFESSIONAL ENGINEER RAYMOND DAWES PELSB 08/28/2025 NORTH DAKOTA</p>		<p><b>Office of Construction and Facilities Management</b></p> <p>VA U.S. Department of Veterans Affairs</p>		<p>Drawing Title <b>UNDERGROUND STORAGE TANK 4 DEMOLITION PLAN</b></p> <p>Approved: Project Director</p>		<p>Phase <b>BID DOCUMENTS</b></p>		<p>Project Title <b>Replace USTs and Leak Detection System Phase 2</b></p> <p>Location 2101 ELM STREET, FARGO, ND 58102</p>		<p>Project Number 437-24-101</p> <p>Building Number</p>		<p>Drawing Number <b>MD-1.01</b></p>	
<p>Revisions:</p>		<p>Date:</p>		<p>Issue Date 08/28/2025</p>		<p>Checked PM</p>		<p>Drawn TK</p>									

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- COORDINATE ALL WORK WITH ALL RELEVANT DISCIPLINES AND TRADES.

**PIPE KEY**

- # FOS — FUEL OIL SUPPLY PIPING
- # FOR — FUEL OIL RETURN PIPING
- # V — VENT PIPING

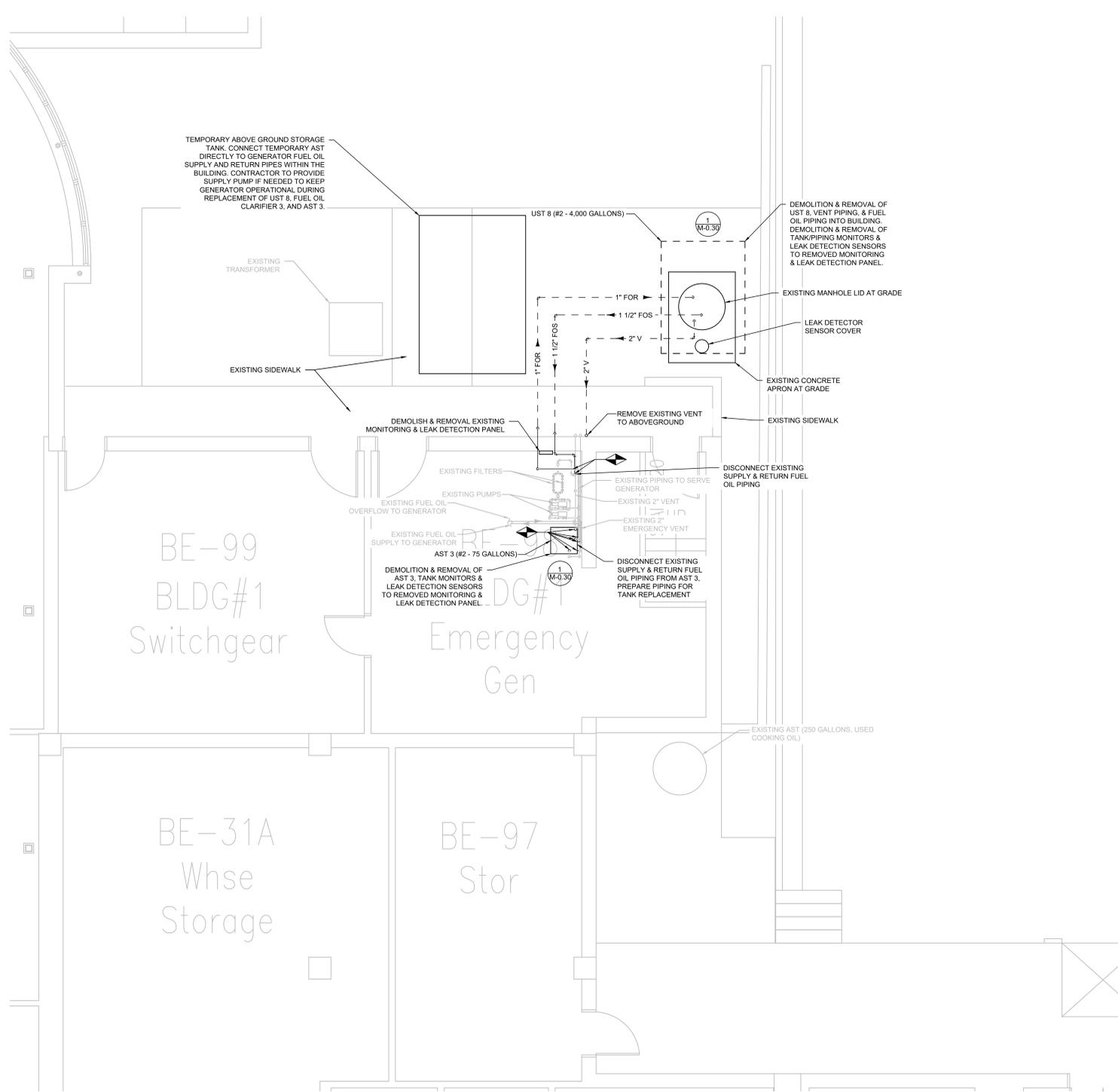
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**UST 8 & AST 3 NOTES**

- BEFORE DEMOLITION BEGINS, A TEMPORARY AST IS TO BE INSTALLED OUTSIDE OF THE BUILDING. FUEL OIL FROM UST 8 AND AST 3 IS TO BE TRANSFERRED INTO TEMPORARY AST BEFORE WORK BEGINS ON UST 8 AND AST 3. TEMPORARY AST TO BE CONNECTED DIRECTLY TO THE GENERATOR FUEL OIL SUPPLY/RETURN PIPING WITHIN THE BUILDING. CONTRACTOR TO PROVIDE SUPPLY PUMP IF NEEDED TO KEEP GENERATOR OPERATIONAL DURING REPLACEMENT OF UST 8, FUEL OIL CLARIFIER 3, AND AST 3.
- DEMOLITION AND REMOVAL OF UST 8, AST 3, FUEL OIL SUPPLY/RETURN PIPING INTO BUILDING, VENT PIPING, MONITORS & LEAK DETECTION SENSORS, AND MONITORING & LEAK DETECTION PANEL LOCATED IN BE-98 BLDG #1 EMERGENCY GEN TO BE EXECUTED. EXISTING PIPING AT DISCONNECTION POINTS TO BE PREPARED FOR CONNECTION TO NEW PIPES.
- THE SAME ABOVEGROUND STORAGE TANK IS TO BE USED IN THE REPLACEMENT OF UST 4 AND UST 8.



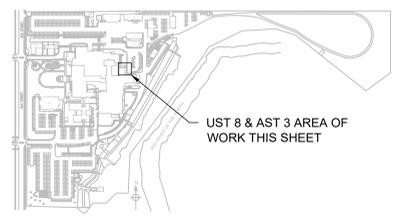
BE-99  
BLDG#1  
Switchgear

BE-98  
BLDG#1  
Emergency Gen

BE-31A  
Whse  
Storage

BE-97  
Stor

UNDERGROUND STORAGE TANK 8 & AST 3 DEMOLITION PLAN  
1/4" = 1'-0"



SITE KEY PLAN  
NTS

100% BID DOCUMENTS

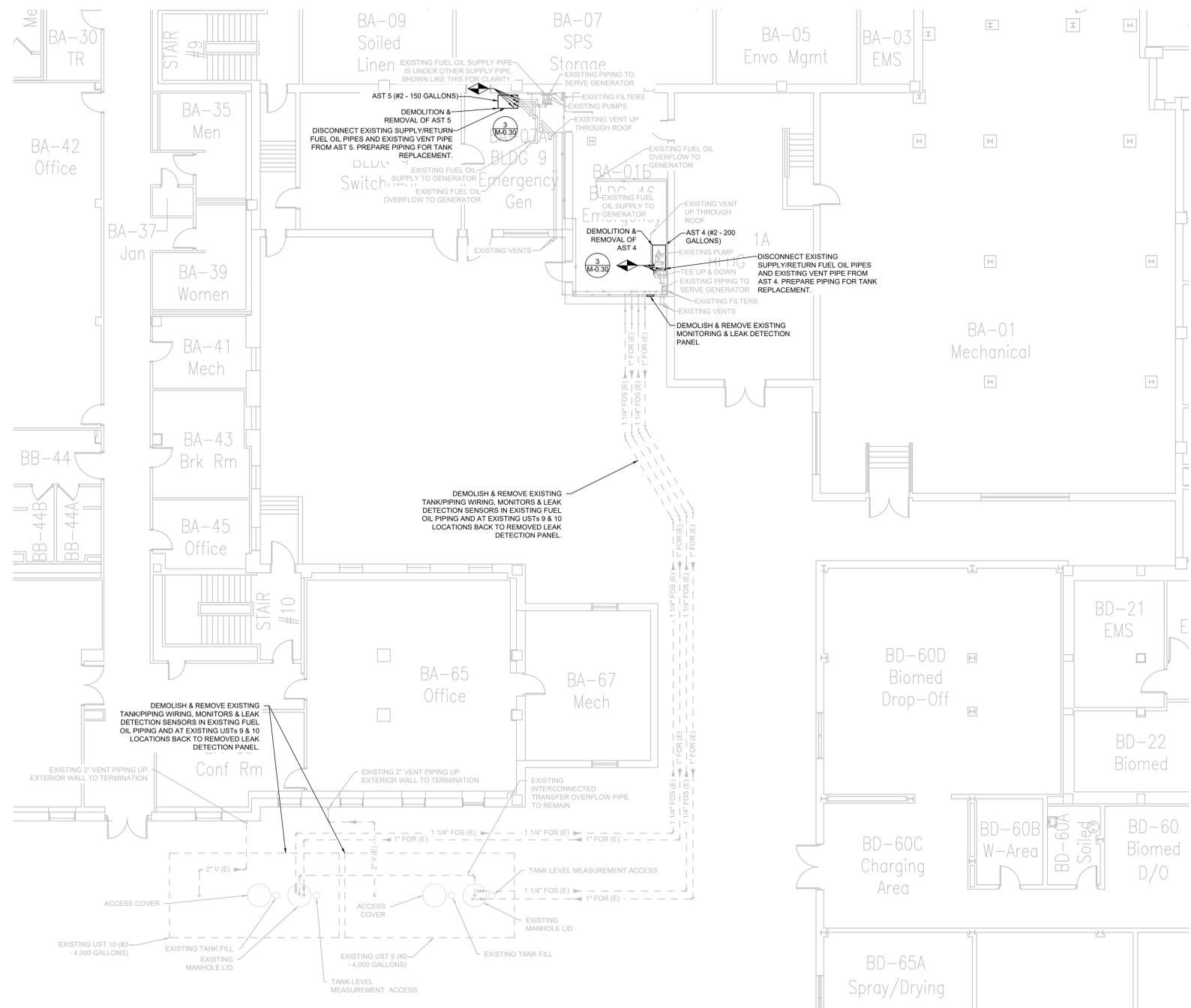
Revisions: Date:	<b>CONSULTANT</b> PROTECTION ENGINEERING CONSULTANTS (PEC) 100 CREEK ROAD, SUITE 102 DRIPPING SPRINGS, TX 78620 PH: (512) 380-1988  WESTERN WATER CONSULTANTS (WWC) 1275 MAPLE STREET, SUITE F HELENA, MT 59601 PH: (406) 443-3962	MBN 503 7TH STREET, SUITE 200 FARGO, ND 58102 PH: (701) 478-6336  ENVIROS 220 RAMSEY STREET HASTINGS, MN 55033 PH: (651) 319-0170	<b>DESIGNER OF RECORD</b> <b>FOURFRONT</b> DESIGN INC  517 7TH STREET RAPID CITY, SD 57701 PH: (605) 342-9470 POC: JARED LOTT	STAMP 	Office of Construction and Facilities Management  VA U.S. Department of Veterans Affairs	Drawing Title UNDERGROUND STORAGE TANK 8 & AST 3 DEMOLITION PLAN  Approved: Project Director	Phase BID DOCUMENTS	Project Title Replace USTs and Leak Detection System Phase 2  Location 2101 ELM STREET, FARGO, ND 58102	Project Number 437-24-101 Building Number  Drawing Number MD-1.02
	Issue Date 08/28/2025	Checked PM	Drawn TK						

- GENERAL MECHANICAL NOTES**
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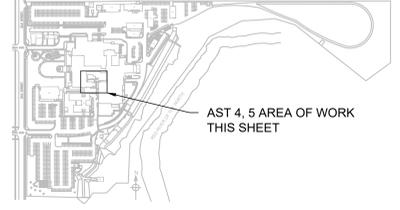
- PIPE KEY**
- 1" FOS FUEL OIL SUPPLY PIPING
  - 1" FOR FUEL OIL RETURN PIPING
  - 1" V VENT PIPING
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- OWNER IS TO REQUEST PROJECT CLOSURE 30 DAYS PRIOR TO COMPLETION.
  - OWNER TO COORDINATE WITH FARGO FIRE DEPARTMENT TO BE ON SITE FOR DEMOLITION AND INSTALLATION OF USTs AND ASTs.

- ASTs 4, 5 & USTs 9, 10 NOTES**
- BEFORE DEMOLITION BEGINS, ALL OF THE FUEL FROM ONE AST TANK IS TO BE TRANSFERRED INTO THE USTs. A TEMPORARY FUEL OIL TANK BASIN IS TO BE BROUGHT IN AND CONNECTED DIRECTLY TO THE EMERGENCY GENERATOR FUEL OIL SUPPLY RETURN PIPES. CONTRACTOR TO HAVE SECOND TEMPORARY TANK FULL OF FUEL OIL READY FOR USE IN THE EVENT THE GENERATOR RUNS DURING AST REPLACEMENT.
  - DEMOLITION AND REMOVAL OF ONE AST TO BE PERFORMED AT A TIME. EXISTING PIPING AT DISCONNECTION POINTS TO BE PREPARED FOR CONNECTION TO NEW AST.
  - DEMOLITION & REMOVAL OF TANK PIPING MONITORS & LEAK DETECTION SENSORS & MONITORING & LEAK DETECTION PANEL IS TO BE PERFORMED.



**ABOVEGROUND STORAGE TANKS 4 & 5 DEMOLITION PLAN**  
1/8" = 1'-0"



**SITE KEY PLAN**  
NTS

**100% BID DOCUMENTS**

<b>CONSULTANT</b> PROTECTION ENGINEERING CONSULTANTS (PEC) 100 CREEK ROAD, SUITE 102 DRIPPING SPRINGS, TX 78620 PH: (512) 380-1988 WESTERN WATER CONSULTANTS (WWC) 1275 MAPLE STREET, SUITE F HELENA, MT 59601 PH: (406) 443-3962	<b>DESIGNER OF RECORD</b> <b>FOURFRONT</b> DESIGN INC 517 7TH STREET RAPID CITY, SD 57701 PH: (605) 342-9470 POC: JARED LOTT	<b>STAMP</b> 	<b>Office of Construction and Facilities Management</b> <b>VA</b> U.S. Department of Veterans Affairs	Drawing Title <b>ABOVEGROUND STORAGE TANKS 4 &amp; 5 DEMOLITION PLAN</b>	Phase <b>BID DOCUMENTS</b>	Project Title <b>Replace USTs and Leak Detection System Phase 2</b>	Project Number <b>437-24-101</b>
				Approved: Project Director	Location <b>2101 ELM STREET, FARGO, ND 58102</b>	Issue Date <b>08/28/2025</b>	Checked <b>PM</b>

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- GENERAL MECHANICAL NOTES**
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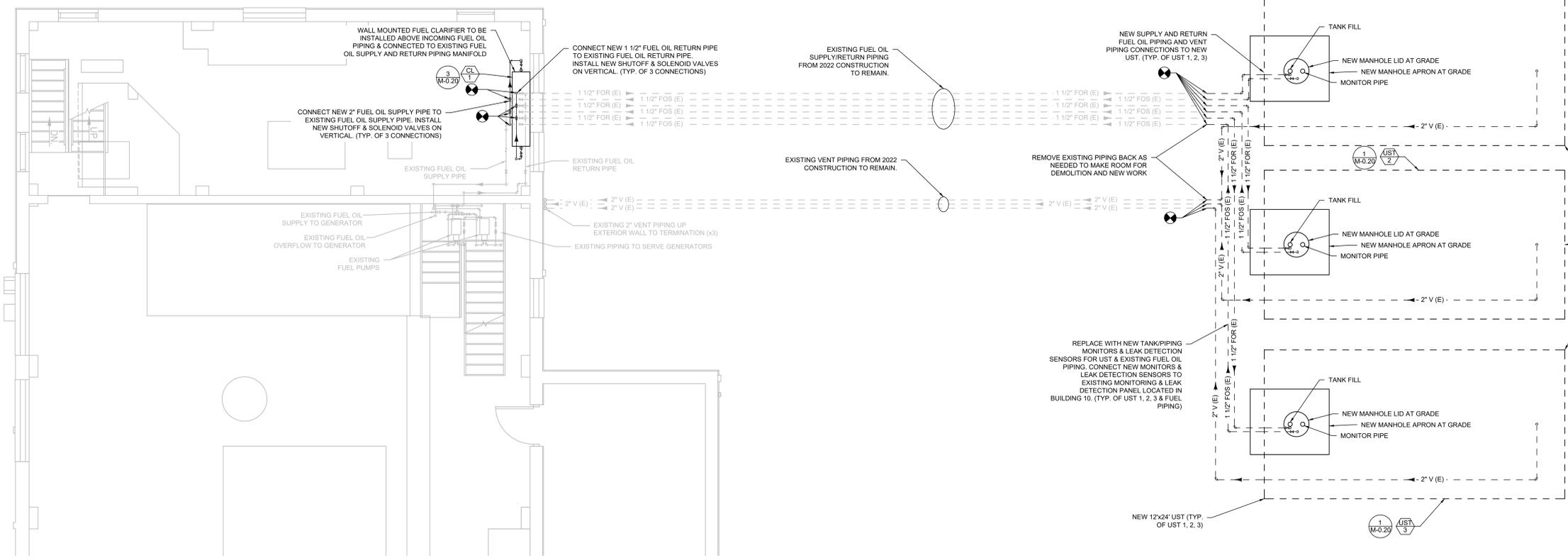
**PIPE KEY**

—# FOS—	FUEL OIL SUPPLY PIPING
—# FOR—	FUEL OIL RETURN PIPING
—# V—	VENT PIPING

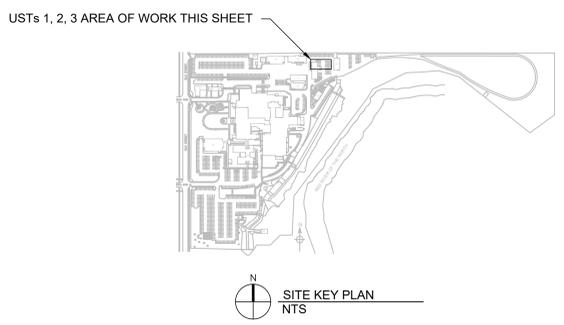
NOTE: DASHED LINES INDICATE BELOW GRADE PIPING.

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- USTs 1, 2, 3 NOTES**
- NEW USTs ARE TO BE INSTALLED AND CONNECTED TO EXISTING SUPPLY/RETURN FUEL OIL PIPING AND EXISTING VENT PIPING. NEW TANK/PIPING MONITORS AND LEAK DETECTION SENSORS ARE TO BE INSTALLED AND CONNECTED TO EXISTING MONITORING AND LEAK DETECTION PANEL LOCATED IN BUILDING 10.
  - FUEL CLARIFIER 1 IS TO BE INSTALLED INSIDE OF BUILDING 10 AND CONNECTED TO EXISTING FUEL SUPPLY/RETURN PIPING WITHIN BUILDING.



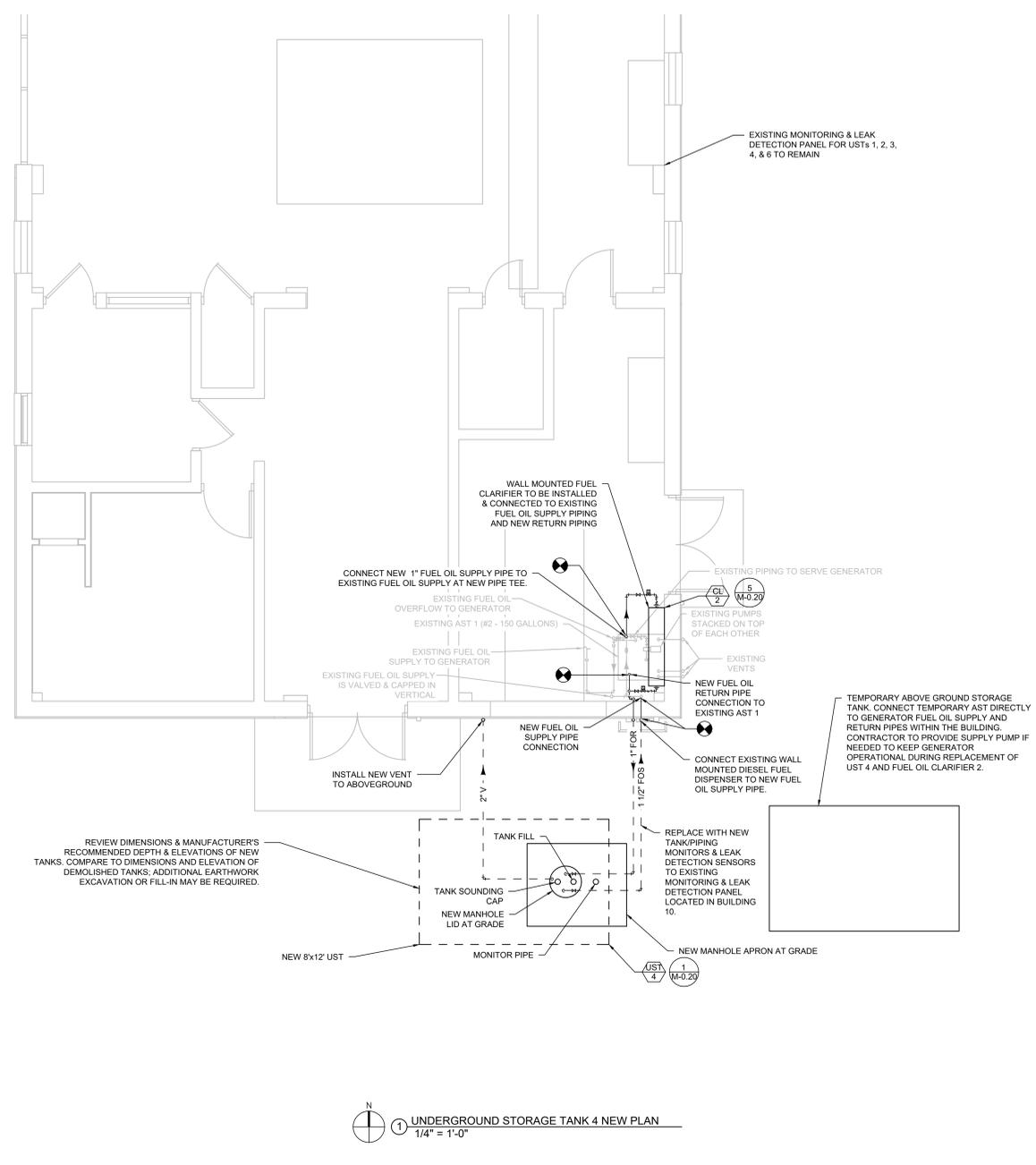
1 UNDERGROUND STORAGE TANKS 1, 2 & 3 NEW PLAN  
1/4" = 1'-0"



100% BID DOCUMENTS

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				Approved: Project Director	Location <b>2101 ELM STREET, FARGO, ND 58102</b>	Issue Date <b>08/28/2025</b>	Checked <b>PM</b>

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**GENERAL MECHANICAL NOTES**

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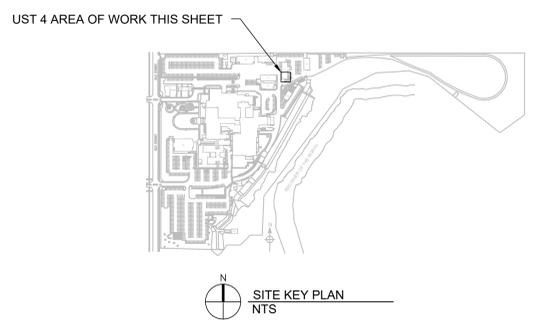
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**UST 4 NOTES**

- NEW UST 4 TO BE INSTALLED AND CONNECTED TO NEW SUPPLY/RETURN FUEL OIL PIPING. NEW FUEL OIL SUPPLY PIPING TO CONNECT TO EXISTING FUEL OIL SUPPLY PIPING WITHIN BUILDING. NEW FUEL OIL RETURN PIPING TO CONNECT TO EXISTING AST 1 WITHIN BUILDING. NEW VENT PIPING FROM UST 4 TO BE INSTALLED. NEW TANK/PIPING MONITORS AND LEAK DETECTION SENSORS ARE TO BE INSTALLED AND CONNECTED TO EXISTING MONITORING AND LEAK DETECTION PANEL LOCATED IN BUILDING 10.
- FUEL CLARIFIER 2 TO BE INSTALLED INSIDE OF BUILDING 10 AND CONNECTED TO EXISTING FUEL OIL SUPPLY/RETURN PIPING WITHIN BUILDING.
- ONCE UST 4, FUEL CLARIFIER 2 AND FUEL OIL/VENT PIPING IS REPLACED AND CONNECTED, THE FUEL TEMPORARILY STORED IN THE TEMPORARY AST IS TO BE TRANSFERRED INTO THE NEW UST 4 BEFORE THE REMOVAL OF TEMPORARY AST.
- THE SAME ABOVEGROUND STORAGE TANK IS TO BE USED IN THE REPLACEMENT OF UST 4 AND UST 8.

UNDERGROUND STORAGE TANK 4 NEW PLAN  
 1/4" = 1'-0"



100% BID DOCUMENTS

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	Issue Date 08/28/2025	Checked PM	Drawn TK						

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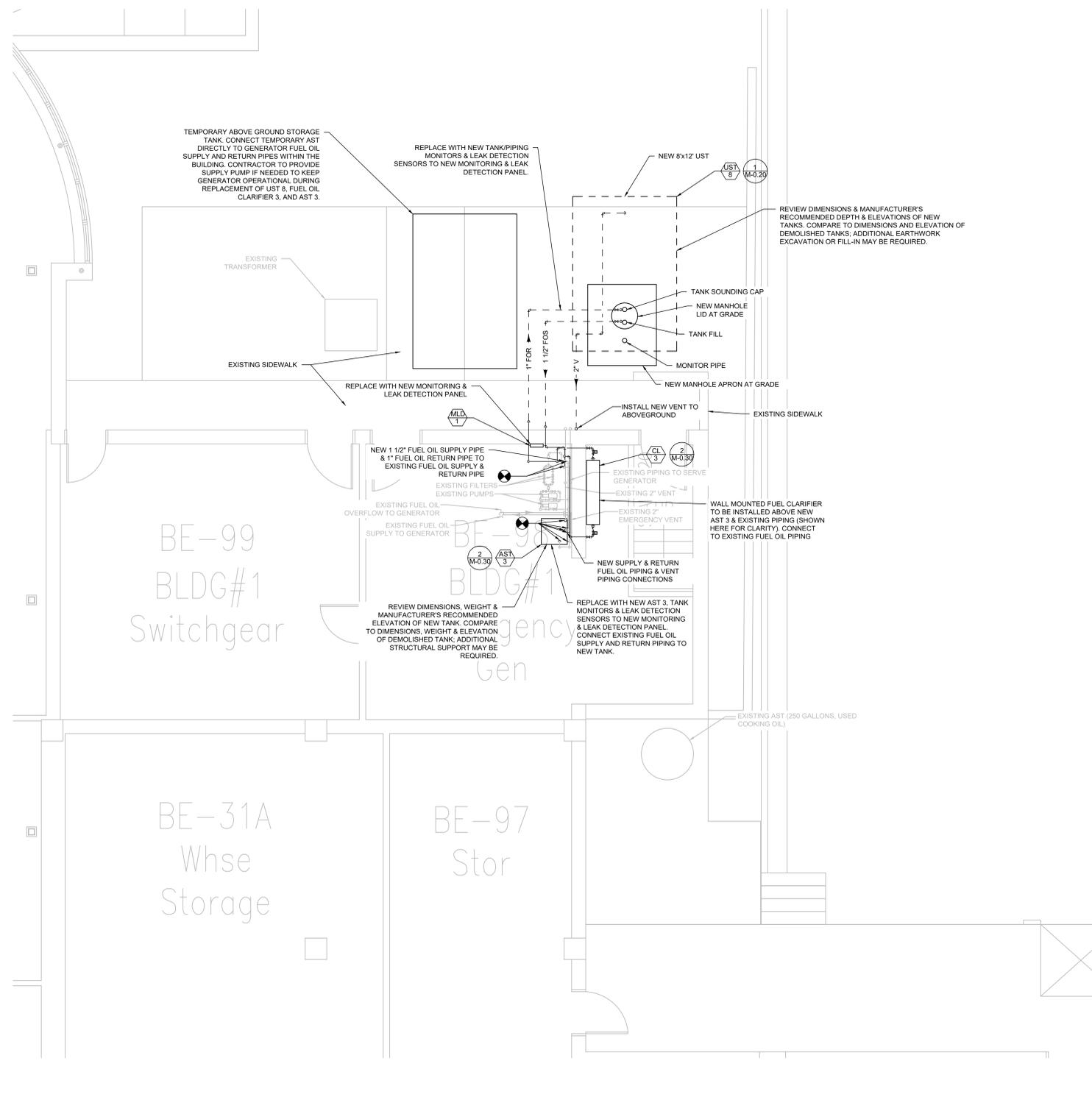
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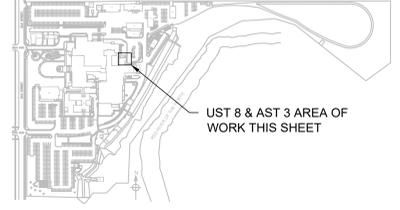
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- UST 8 & AST 3 NOTES**
- NEW UST 8 AND AST 3 TO BE CONNECTED TO NEW/EXISTING SUPPLY/RETURN FUEL OIL PIPING WITHIN BUILDING AND INSTALLATION OF NEW VENT PIPING FROM UST 8. NEW TANK/PIPING MONITORS AND LEAK DETECTION SENSORS ARE TO BE INSTALLED AND CONNECTED TO NEW MONITORING & LEAK DETECTION PANEL 1 LOCATED IN BE-98 BLDG #1 EMERGENCY GEN.
  - FUEL CLARIFIER 3 TO BE INSTALLED INSIDE OF BUILDING AND CONNECTED TO EXISTING FUEL OIL SUPPLY/RETURN PIPING WITHIN BE-98 BLDG #1 EMERGENCY GEN.
  - ONCE UST 8, AST 3, FUEL CLARIFIER 3 AND FUEL OIL/VENT PIPING IS REPLACED AND CONNECTED, THE FUEL TEMPORARILY STORED IN THE TEMPORARY AST IS TO BE TRANSFERRED INTO THE NEW UST 8 BEFORE REMOVAL OF TEMPORARY AST.
  - THE SAME ABOVEGROUND STORAGE TANK IS TO BE USED IN THE REPLACEMENT OF UST 4 AND UST 8.



UNDERGROUND STORAGE TANK 8 & AST 3 NEW PLAN  
1/4" = 1'-0"



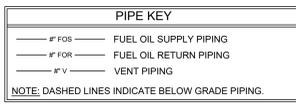
SITE KEY PLAN  
NTS

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	Checked PM	Drawn TK							

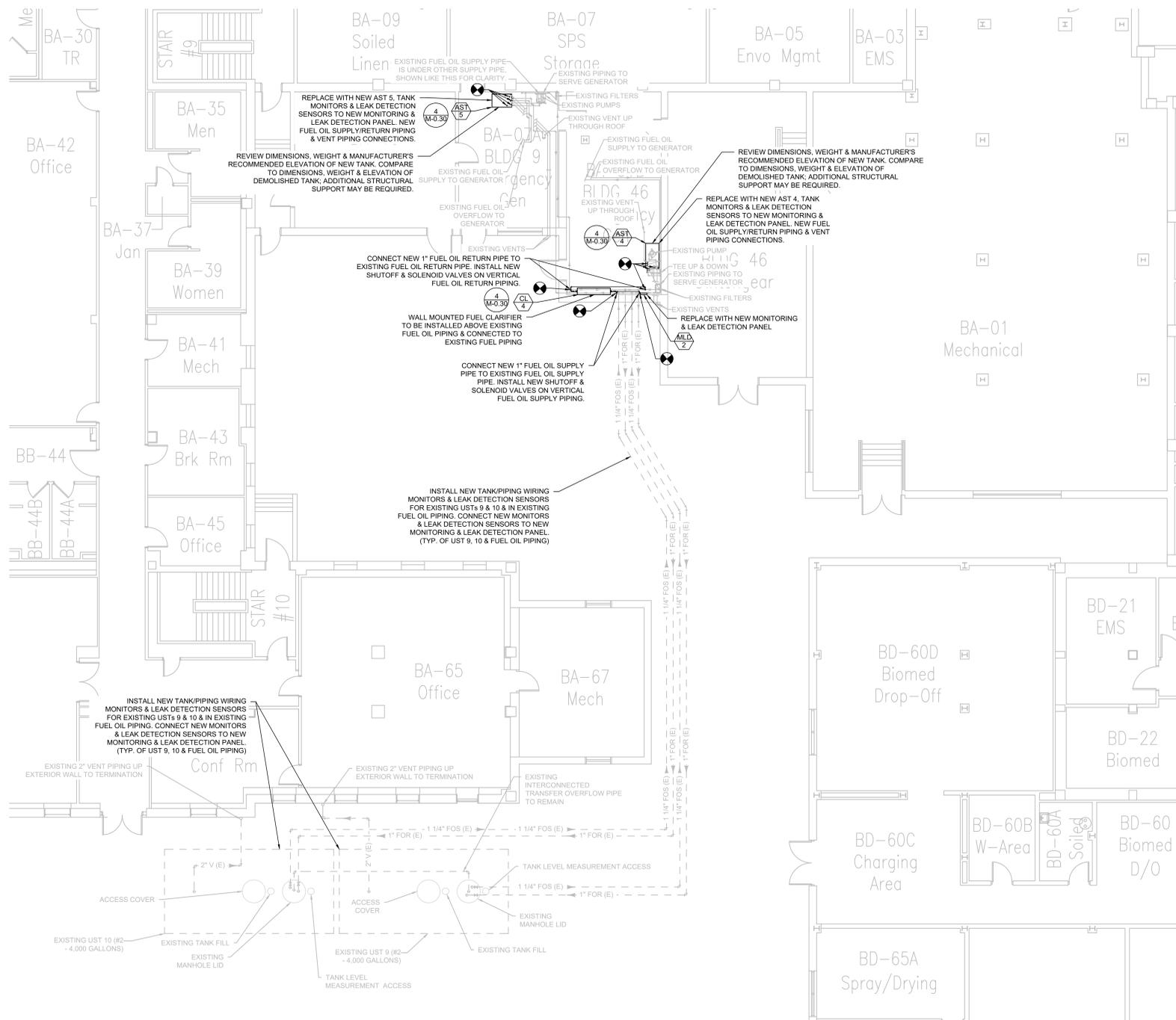
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VA FORM 08-6231

- GENERAL MECHANICAL NOTES**
- EQUIPMENT & PIPING SHOWN IN GRAY ARE EXISTING AND TO REMAIN.
  - PIPING & EQUIPMENT SHOWN WITH DASHED LINES ARE BELOW GRADE.
  - MECHANICAL PLANS ARE DIAGNOSTIC. CONTRACTOR TO COORDINATE FINAL PIPE ROUTING AND FINAL EQUIPMENT MOUNTING LOCATIONS.
  - COORDINATE ALL WORK WITH ALL RELEVANT DISCIPLINES AND TRADES.

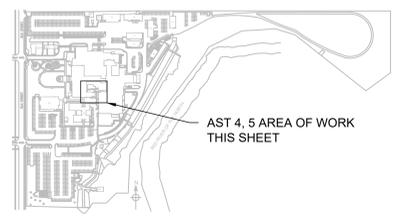


- NOTE TO OWNER**
- OWNER IS TO REQUEST PROJECT CLOSURE 30 DAYS PRIOR TO COMPLETION.
  - OWNER TO COORDINATE WITH FARGO FIRE DEPARTMENT TO BE ON SITE FOR DEMOLITION AND INSTALLATION OF USTs AND ASTs.

- ASTs 4, 5 & USTs 9, 10 NOTES**
- NEW AST 4 & 5 TO BE INSTALLED AND CONNECTED TO EXISTING FUEL OIL SUPPLY/RETURN PIPING AND VENT PIPING.
  - NEW TANK/PIPING MONITORS AND LEAK DETECTION SENSORS ARE TO BE INSTALLED FROM USTs 9 AND 10 BACK INTO THE BUILDING. THE NEW SENSORS AND MONITORS ARE TO BE CONNECTED TO THE NEW MONITORING AND LEAK DETECTION PANEL LOCATED IN 5A-01B BLDG #46 EMERGENCY GEN.
  - FUEL CLARIFIER 4 IS TO BE INSTALLED INSIDE OF 5A-01B BLDG #46 EMERGENCY GEN AND CONNECTED TO EXISTING FUEL OIL SUPPLY/RETURN PIPING WITHIN BUILDING.
  - ONCE INSTALLATION OF ASTs 4 & 5, FUEL OIL CLARIFIER 4, MONITORING & LEAK DETECTION SENSORS AND MONITORING AND LEAK DETECTION PANEL 2 ARE COMPLETED AND OPERATIONAL, THE TEMPORARY FUEL OIL TANK BASIN CAN BE REMOVED.



1 ABOVEGROUND STORAGE TANKS 4 & 5 NEW PLAN  
1/8" = 1'-0"



SITE KEY PLAN NTS

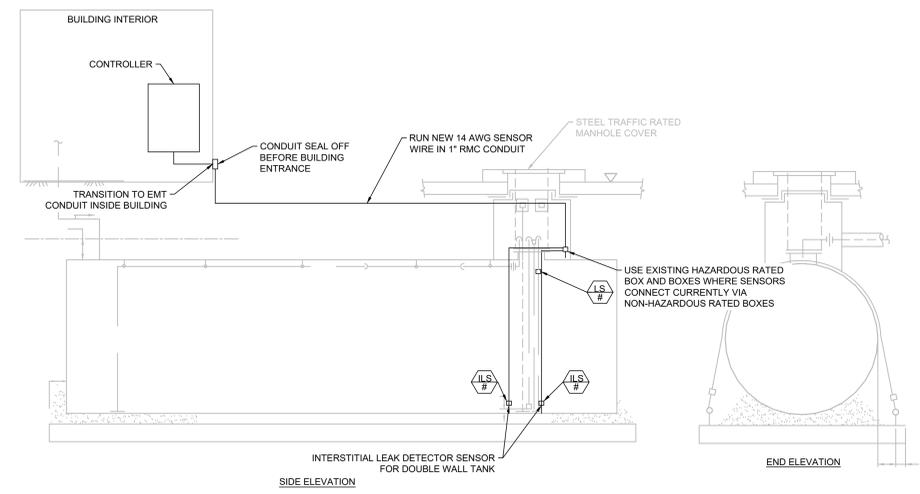
100% BID DOCUMENTS

Revisions: _____ Date: _____ File Path: _____ VA FORM 08-6231	<b>CONSULTANT</b> PROTECTION ENGINEERING CONSULTANTS (PEC) 100 CREEK ROAD, SUITE 102 DRIPPING SPRINGS, TX 78620 PH: (512) 380-1988  WESTERN WATER CONSULTANTS (WWC) 1275 MAPLE STREET, SUITE F HELENA, MT 59601 PH: (406) 443-3962	<b>DESIGNER OF RECORD</b> <b>FOURFRONT</b> DESIGN INC  517 7TH STREET RAPID CITY, SD 57701 PH: (605) 342-9470 POC: JARED LOTT	<b>STAMP</b> 	Office of Construction and Facilities Management  <b>VA</b> U.S. Department of Veterans Affairs	Drawing Title <b>ABOVEGROUND STORAGE TANKS          4 &amp; 5 NEW PLAN</b>  Approved: Project Director	Phase <b>BID DOCUMENTS</b>	Project Title <b>Replace USTs and Leak          Detection System Phase 2</b>  Location 2101 ELM STREET, FARGO, ND 58102  Issue Date 08/28/2025	Project Number <b>437-24-101</b>  Building Number   Drawing Number <b>M-1.03</b>
	Checked PM	Drawn TK						

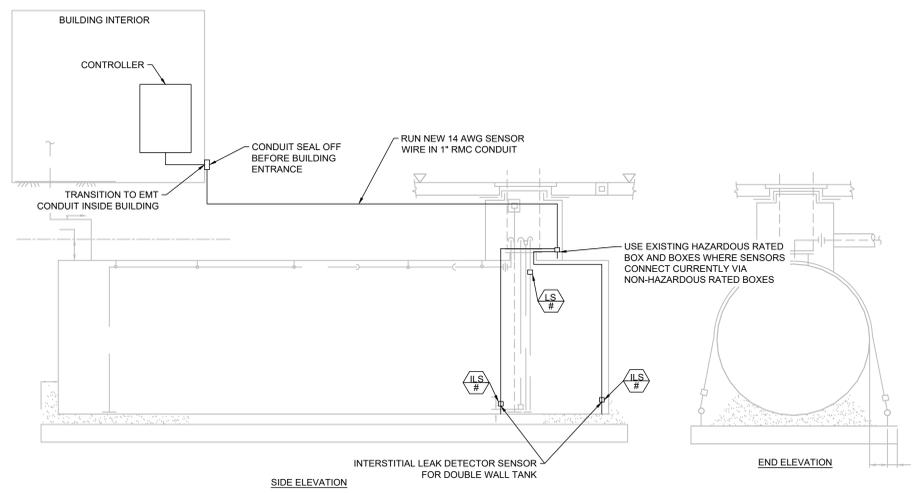
### ELECTRICAL LEGEND (FLOORPLAN)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
---	ITEMS SHOWN IN GRAY ARE EXISTING TO REMAIN	⊕	RECEPTACLE, SWITCHED DUPLEX	⊕	NURSE CALL STATION
---	DASHED ITEMS ARE INSTALLED BELOW REFERENCED PLAN	⊕	RECEPTACLE, SINGLE CONVENIENCE OUTLET, 3-WIRE, GROUNDING TYPE, 20A, W/12 CONDUCTORS IN FLEXIBLE CORD (CENTER LINE OF OUTLET: 6"-6" (152mm) AFF. MINIMUM)	⊕	D = DUTY STATION, MTD 5' AFF
---	DEMOLITION PLANS: SOLID DARK ITEMS ARE TO BE REMOVED OR MODIFIED.	⊕	ELECTRICAL STRIP MOLD (OUTLETS ON 2'-0" (610mm) CENTERS OR AS DESIGNATED ON DRAWINGS), MTD 3'-6" (1067mm) AFF OR AS INDICATED.	⊕	E = MTD 6' AFF FOR SHOWER LOCATION
---	NEW PLANS: SOLID DARK ITEMS ARE TO BE ADDED OR MODIFIED.	⊕	DISCONNECT SWITCH, FUSED	⊕	MTD 4'-6" AFF FOR TUB LOCATION
⊕	MOTOR, SINGLE-PHASE	⊕	DISCONNECT SWITCH, UNFUSED	⊕	MTD 3' AFF FOR TOILET LOCATION
⊕	MOTOR, THREE-PHASE	⊕	STARTER, COMBINATION WITH DISCONNECT SWITCH	⊕	P = PSYCHIATRIC CORRIDOR STATION WITH KEY SWITCH
⊕	TRANSFORMER	⊕	STARTER OR MOTOR CONTROLLER	⊕	S = AUDIO VISUAL STAFF STATION MTD 5' AFF
⊕	WYE CONNECTION	⊕	VARIABLE FREQUENCY DRIVE	⊕	U = UTILITY CALL STATION, MTD 5' AFF
⊕	DUCT, CELL FLOOR HEADER	⊕	TIME CLOCK	⊕	
⊕	DUCT, TROLLEY	⊕	RECTIFIER, CATHODIC PROTECTION SANITARY	⊕	
⊕	DUCT, UNDERFLOOR JUNCTION BOX	⊕	VENTILATOR OR FAN COIL UNIT OUTLET	⊕	
⊕	EARTH GROUND	⊕	CONDUIT TERMINATED 6" (152mm) AFF IN STANDARD BOX FOR EXTENSION TO EQUIPMENT AS DIRECTED.	⊕	
⊕	JUNCTION BOX	⊕	CONDUIT TERMINATED W/COUPLING (FLUSH WITH FINISH) FOR EXTENSION TO EQUIPMENT AS DIRECTED.	⊕	
⊕	LADDER CABLE TRAY	⊕	SWITCH, SPST	⊕	
⊕	BRANCH CIRCUIT HOMERUN. LINES INDICATE NUMBER OF CIRCUITS, NEUTRAL, AND SWITCH LEG CONDUCTORS. ONE SEPARATE GREEN GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH HOMERUN; NOT SHOWN	⊕	SWITCH, DPST	⊕	
⊕	PULL BOX	⊕	SWITCH, THREE WAY	⊕	
⊕	WIREWAY	⊕	SWITCH, THREE WAY DIMMER	⊕	
⊕	RIGID CONDUIT LINE = RC	⊕	SWITCH, FOUR WAY OCCUPANCY SENSOR	⊕	
⊕	DIRECT BURIAL CABLE = DB	⊕	SWITCH, FOUR WAY	⊕	
⊕	POWER DUCT = P	⊕	SWITCH, DOOR JAMB	⊕	
⊕	AUDIO VISUAL LINE = AV	⊕	SWITCH, FOUR WAY OCCUPANCY SENSOR	⊕	
⊕	CABLE TELEVISION LINE = CATV	⊕	SWITCH, FUSED	⊕	
⊕	CLOSED CIRCUIT TELEVISION LINE = CCTV	⊕	SWITCH, KEY OPERATED	⊕	
⊕	FIBEROPTIC LINE = FO	⊕	SWITCH, LOCK	⊕	
⊕	COMMUNICATIONS LINE = COM	⊕	SWITCH, LOW VOLTAGE MASTER	⊕	
⊕	INTERCOM LINE = I	⊕	SWITCH, MANUAL MOTOR STARTING	⊕	
⊕	NURSE CALL LINE = NC	⊕	SWITCH, MOMENTARY CONTACT	⊕	
⊕	SUBSTATION	⊕	SWITCH, MOTOR SNAP WITH PILOT LIGHT (THERMAL TYPE)	⊕	
⊕	HI VOLTAGE SWITCH ON CONCRETE PAD	⊕	SWITCH, OCCUPANCY SENSOR	⊕	
⊕	LOW VOLTAGE SWITCH ON CONCRETE PAD	⊕	SWITCH, OCCUPANCY SENSOR DIMMER	⊕	
⊕	DUAL POWER AND TELECOMMUNICATIONS MANHOLE	⊕	SWITCH, WITH PILOT LIGHT	⊕	
⊕	BUSWAY	⊕	SWITCH, PUSH BUTTON	⊕	
⊕	DISTRIBUTION PANEL	⊕	SWITCH, PHOTOCELL	⊕	
⊕	LIGHTING PANEL	⊕	SWITCH, REMOTE CONTROL	⊕	
⊕	PANELBOARD CABINET, FLUSH MOUNTED	⊕	SWITCH, WEATHER PROOF	⊕	
⊕	PANELBOARD CABINET, SURFACE MOUNTED	⊕	SWITCH, EXPLOSION PROOF	⊕	
⊕	RECEPTACLE, CLOCK HANGER	⊕	TELECOMMUNICATIONS MANHOLE	⊕	
⊕	RECEPTACLE, DUPLEX	⊕	COMMUNICATIONS FLOOR RECEPTACLE	⊕	
⊕	RECEPTACLE, DUPLEX ON EMERGENCY POWER	⊕	COMMUNICATIONS WALL RECEPTACLE	⊕	
⊕	RECEPTACLE, GFCI DUPLEX	⊕	COMMUNICATIONS CEILING RECEPTACLE	⊕	
⊕	RECEPTACLE, QUADRAPLEX	⊕	TELEVISION FLOOR RECEPTACLE	⊕	
⊕	RECEPTACLE, SPECIAL PURPOSE 120V, 20A, 1 PHASE, 2-POLE, 3W, NEMA 5-20R	⊕	TELEVISION WALL RECEPTACLE	⊕	
⊕	RECEPTACLE, SPECIAL PURPOSE 208V, 30A, 1 PHASE, 2-POLE, 3W, NEMA 6-20R	⊕	TELEVISION CEILING RECEPTACLE	⊕	
⊕	RECEPTACLE, SPECIAL PURPOSE 120V, 30A, 1 PHASE, 2-POLE, 3W, NEMA 5-30R	⊕	C = CAMERA (CCTV SYSTEM)	⊕	
⊕	RECEPTACLE, SPECIAL PURPOSE 208V, 30A, 1 PHASE, 2-POLE, 3W, NEMA 6-30R	⊕	M = MONITOR (CATV SYSTEM)	⊕	
⊕	RECEPTACLE, SPECIAL PURPOSE 208V, 60A, 1 PHASE, 3-POLE, 4W, NEMA 14-60R	⊕	AV = AUDIO VISUAL (CONFERENCE ROOM CONNECTION RECEPTABLES)	⊕	
⊕	RECEPTACLE, SPECIAL PURPOSE 208V, 30A, 3 PHASE, 3-POLE, 4W, NEMA 15-30R	⊕	TELEVISION CEILING RECEPTACLE	⊕	
⊕	RECEPTACLE, SPECIAL PURPOSE 208V, 60A, 3 PHASE, 3-POLE, 4W, NEMA 15-60R	⊕	C = CAMERA (CCTV SYSTEM)	⊕	
⊕	RECEPTACLE, SPECIAL PURPOSE 208V, 20A, 3 PHASE, 3-POLE, 4W, NEMA 15-20R	⊕	M = MONITOR (CATV SYSTEM)	⊕	
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TYPE NO.	DESCRIPTION
UST-1	UNDERGROUND TANK FOR 20,000 GALLONS OF HEATING OIL
UST-2	UNDERGROUND TANK FOR 20,000 GALLONS OF HEATING OIL
UST-3	UNDERGROUND TANK FOR 20,000 GALLONS OF HEATING OIL
UST-4	UNDERGROUND TANK FOR 4,000 GALLONS OF GENERATOR FUEL
UST-6	UNDERGROUND TANK FOR 1,000 GALLONS OF GENERATOR FUEL
UST-8	UNDERGROUND TANK FOR 4,000 GALLONS OF GENERATOR FUEL
UST-9	UNDERGROUND TANK FOR 4,000 GALLONS OF GENERATOR FUEL
UST-10	UNDERGROUND TANK FOR 4,000 GALLONS OF GENERATOR FUEL
AST-3	ABOVE GROUND TANK FOR 75 GALLONS OF GENERATOR FUEL
AST-4	ABOVE GROUND TANK FOR 200 GALLONS OF GENERATOR FUEL
AST-5	ABOVE GROUND TANK FOR 150 GALLONS OF GENERATOR FUEL



1 USTs 1, 2, & 3 SENSORS NEW CONSTRUCTION DETAIL  
E0.1 SCALE: NTS



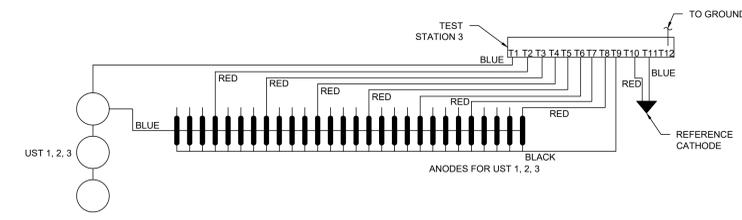
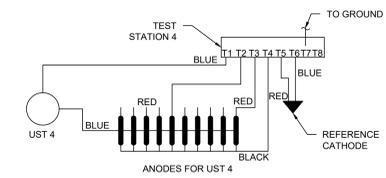
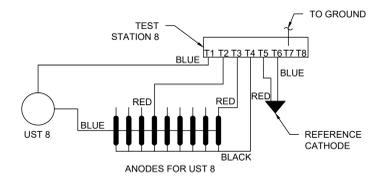
2 USTs 4 & 8 SENSORS NEW CONSTRUCTION DETAIL  
E0.1 SCALE: NTS

EQUIP. NO.	TAG NO.	DESCRIPTION	ELECTRIC		DIMENSIONS		TYPE AND/OR MOUNTING	MANUFACTURER & MODEL	OPTIONS/ACCESSORIES
			VOL. P.W. CY.	FLX.	WIDTH	HEIGHT			
MLD-1	UST 8, AST 3	MONITOR AND LEAK DETECTION PANEL	120-1-60	1.5	9"	10.25"	11.75"	WALL MOUNTED	1,2,3
MLD-2	UST 9, 10, AST 4, 5	MONITOR AND LEAK DETECTION PANEL	120-1-60	1.5	9"	10.25"	11.75"	WALL MOUNTED	1,2,3
LS-1	UST 1	FLOAT LEAK SENSOR	-	-	-	-	-	TERMINAL BLOCKS ON LEAK DETECTION HEAD END CONTROL PANEL	2
LS-2	UST 2	FLOAT LEAK SENSOR	-	-	-	-	-	TERMINAL BLOCKS ON LEAK DETECTION HEAD END CONTROL PANEL	2
LS-3	UST 3	FLOAT LEAK SENSOR	-	-	-	-	-	TERMINAL BLOCKS ON LEAK DETECTION HEAD END CONTROL PANEL	2
LS-4	UST 4	FLOAT LEAK SENSOR	-	-	-	-	-	TERMINAL BLOCKS ON LEAK DETECTION HEAD END CONTROL PANEL	2
LS-8	UST 8	FLOAT LEAK SENSOR	-	-	-	-	-	TERMINAL BLOCKS ON MLD-1 CONTROLLER	2
LS-9	UST 9	FLOAT LEAK SENSOR	-	-	-	-	-	TERMINAL BLOCKS ON MLD-2 CONTROLLER	2
LS-10	UST 10	FLOAT LEAK SENSOR	-	-	-	-	-	TERMINAL BLOCKS ON MLD-2 CONTROLLER	2
LS-11	AST 3	FLOAT LEAK SENSOR	-	-	-	-	-	TERMINAL BLOCKS ON MLD-1 CONTROLLER	2
LS-12	AST 4	FLOAT LEAK SENSOR	-	-	-	-	-	TERMINAL BLOCKS ON MLD-2 CONTROLLER	2
LS-13	AST 5	FLOAT LEAK SENSOR	-	-	-	-	-	TERMINAL BLOCKS ON MLD-2 CONTROLLER	2
ILS-1	UST 1	ELECTRO-OPTIC INTERSTITIAL LEAK DETECTOR SENSOR	-	-	-	-	-	INTERSTITIAL SPACE	2
ILS-2	UST 1	ELECTRO-OPTIC INTERSTITIAL LEAK DETECTOR SENSOR	-	-	-	-	-	INTERSTITIAL SPACE	2
ILS-3	UST 2	ELECTRO-OPTIC INTERSTITIAL LEAK DETECTOR SENSOR	-	-	-	-	-	INTERSTITIAL SPACE	2
ILS-4	UST 2	ELECTRO-OPTIC INTERSTITIAL LEAK DETECTOR SENSOR	-	-	-	-	-	INTERSTITIAL SPACE	2
ILS-5	UST 3	ELECTRO-OPTIC INTERSTITIAL LEAK DETECTOR SENSOR	-	-	-	-	-	INTERSTITIAL SPACE	2
ILS-6	UST 3	ELECTRO-OPTIC INTERSTITIAL LEAK DETECTOR SENSOR	-	-	-	-	-	INTERSTITIAL SPACE	2
ILS-7	UST 4	ELECTRO-OPTIC INTERSTITIAL LEAK DETECTOR SENSOR	-	-	-	-	-	INTERSTITIAL SPACE	2
ILS-8	UST 4	ELECTRO-OPTIC INTERSTITIAL LEAK DETECTOR SENSOR	-	-	-	-	-	INTERSTITIAL SPACE	2
ILS-9	UST 8	ELECTRO-OPTIC INTERSTITIAL LEAK DETECTOR SENSOR	-	-	-	-	-	INTERSTITIAL SPACE	2
ILS-10	UST 8	ELECTRO-OPTIC INTERSTITIAL LEAK DETECTOR SENSOR	-	-	-	-	-	INTERSTITIAL SPACE	2
ILS-11	UST 9	ELECTRO-OPTIC INTERSTITIAL LEAK DETECTOR SENSOR	-	-	-	-	-	INTERSTITIAL SPACE	2
ILS-12	UST 9	ELECTRO-OPTIC INTERSTITIAL LEAK DETECTOR SENSOR	-	-	-	-	-	INTERSTITIAL SPACE	2
ILS-13	UST 10	ELECTRO-OPTIC INTERSTITIAL LEAK DETECTOR SENSOR	-	-	-	-	-	INTERSTITIAL SPACE	2
ILS-14	UST 10	ELECTRO-OPTIC INTERSTITIAL LEAK DETECTOR SENSOR	-	-	-	-	-	INTERSTITIAL SPACE	2

- LOCATE MONITORING & LEAK DETECTION PANEL 5 FEET ABOVE FLOOR.
- PROVIDE ALL REQUIRED SENSORS, PROBES AND FLOATS FOR COMPLETE MONITORING SYSTEM.
- INTEGRATE MONITORING & LEAK DETECTION PANEL INTO EXISTING FARGO BAS. VIA MODBUS.

EQUIPMENT	DESCRIPTION
SACRIFICIAL ANODES	MATCOR MMO SERIES TYPE II MAGNESIUM ANODE WITH FACTORY PACKED BACKFILL GALVANIZED STEEL CORE
REFERENCE ELECTRODE	TICKER-RASOR DB-A COPPER SULFATE DIRECT BURIAL TYPE
TEST STATION 4	SQUARE D 8 POLE DUAL ROW SCREWS 12 PITCH WITH COVER
TEST STATION 8	SQUARE D 8 POLE DUAL ROW SCREWS 12 PITCH WITH COVER
TEST STATION 3	SQUARE D 12 POLE DUAL ROW SCREWS 12 PITCH WITH COVER

NOTE: CATHODIC PROTECTION IS ONLY NECESSARY IN THE EVENT THAT FRP TANKS ARE NOT USED. DISREGARD THIS CATHODIC PROTECTION INFORMATION IF THAT IS THE CASE.

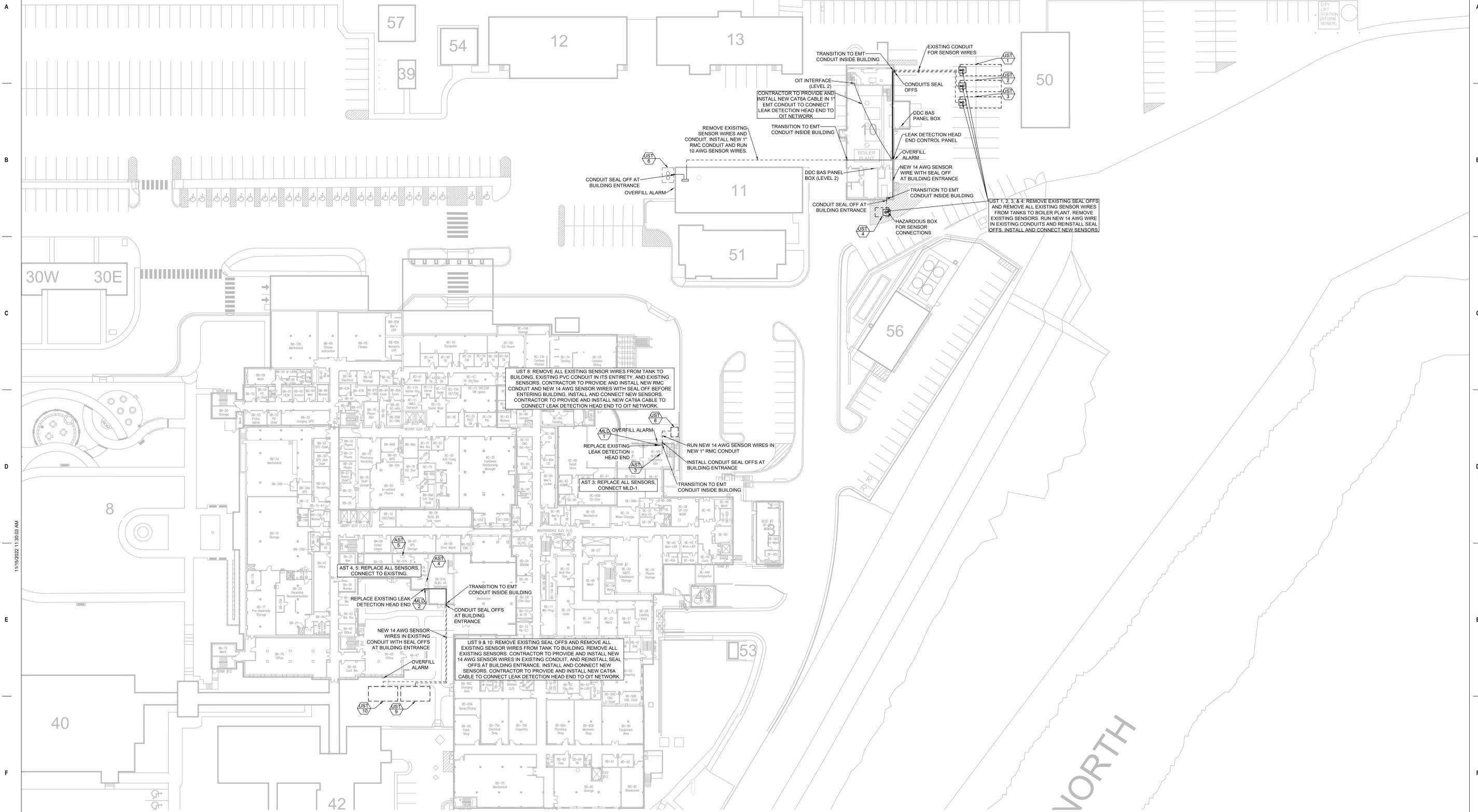


3 CATHODIC PROTECTION SYSTEM  
E0.1 SCALE: NTS

100% BID DOCUMENTS

<b>CONSULTANT</b> PROTECTION ENGINEERING CONSULTANTS (PEC) 100 CREEK ROAD, SUITE 102 DRIPPING SPRINGS, TX 78620 PH: (512) 380-1988 WESTERN WATER CONSULTANTS (WWC) 1275 MAPLE STREET, SUITE F HELENA, MT 59601 PH: (406) 443-3962	MBN 503 7TH STREET, SUITE 200 FARGO, ND 58102 PH: (701) 478-6336 ENVIROS 220 RAMSEY STREET HASTINGS, MN 55033 PH: (651) 319-0170	<b>DESIGNER OF RECORD</b> <b>FOURFRONT</b> DESIGN INC 517 7TH STREET RAPID CITY, SD 57701 PH: (605) 342-9470 POC: JARED LOTT	STAMP 	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title <b>ELECTRICAL SCHEDULES          AND DETAILS</b>	Phase <b>CONTRACT DOCUMENT</b>	Project Title <b>Replace USTs and Leak          Detection System Phase 2</b>	Project Number <b>437-24-101</b>
					Approved: Project Director	Location <b>2101 ELM STREET, FARGO, ND 58102</b>	Issue Date <b>08/28/2025</b>	Checked <b>MC</b>

11/15/2022 11:30:03 AM



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Revisions:	Date:

<b>CONSULTANT</b>	
PROTECTION ENGINEERING CONSULTANTS (PEC) 100 CREEK ROAD, SUITE 102 DRIPPING SPRINGS, TX 78620 PH: (512) 380-1988	MBN 503 7TH STREET, SUITE 200 FARGO, ND 58102 PH: (701) 478-6336
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<b>DESIGNER OF RECORD</b>
<b>FOURFRONT</b> DESIGN INC
517 7TH STREET RAPID CITY, SD 57701 PH: (605) 342-9470 POC: JARED LOTT

STAMP

FFD PROJECT NO: 19-2481-M21

Office of Construction and Facilities Management

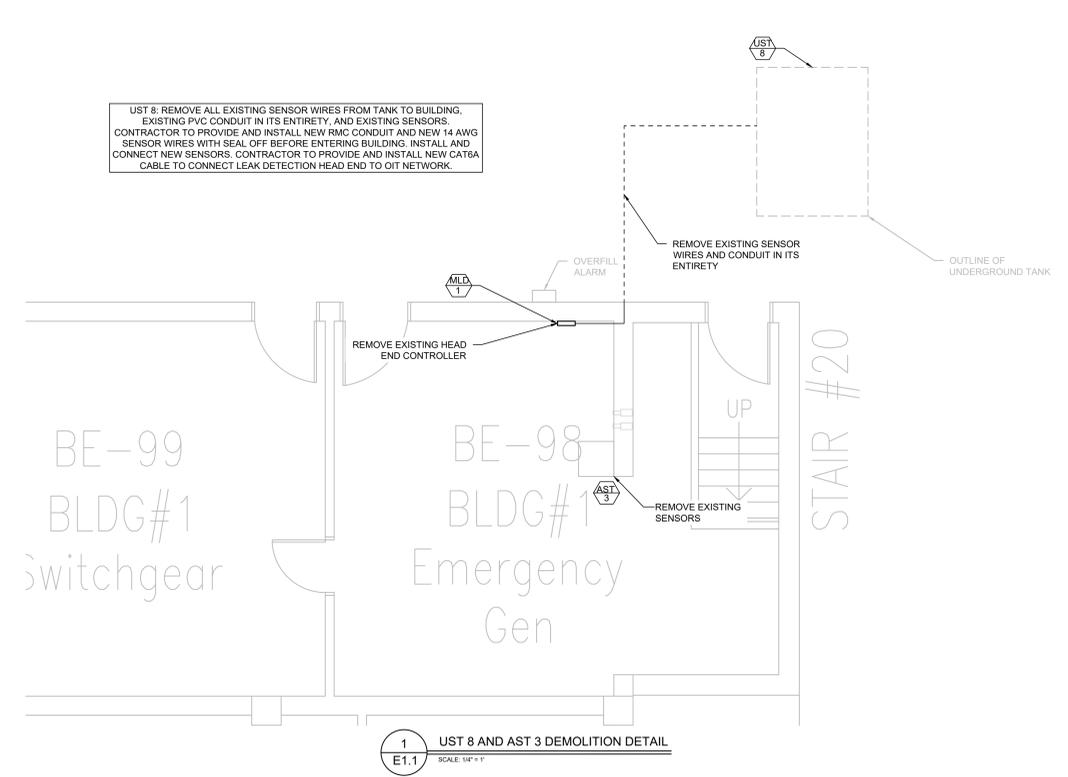
Drawing Title	ELECTRICAL FLOOR PLAN
Approved: Project Director	

Phase	CONTRACT DOCUMENT
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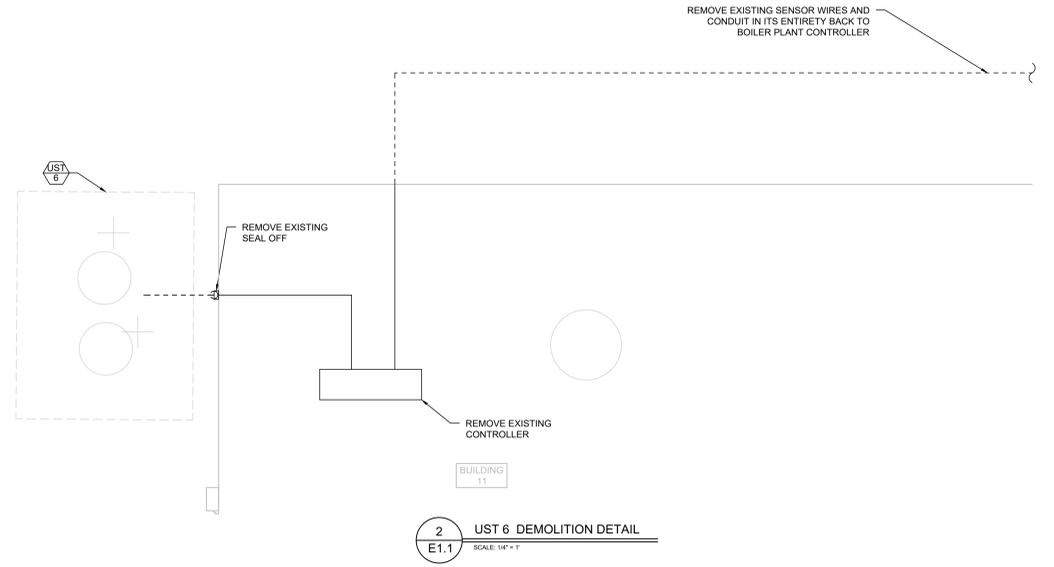
Project Title	Replace USTs and Leak Detection System Phase 2
Location	2101 ELM STREET, FARGO, ND 58102
Issue Date	08/28/2025
Checked	MC
Drawn	WS

Project Number	437-24-101
Building Number	
Drawing Number	E 1.0

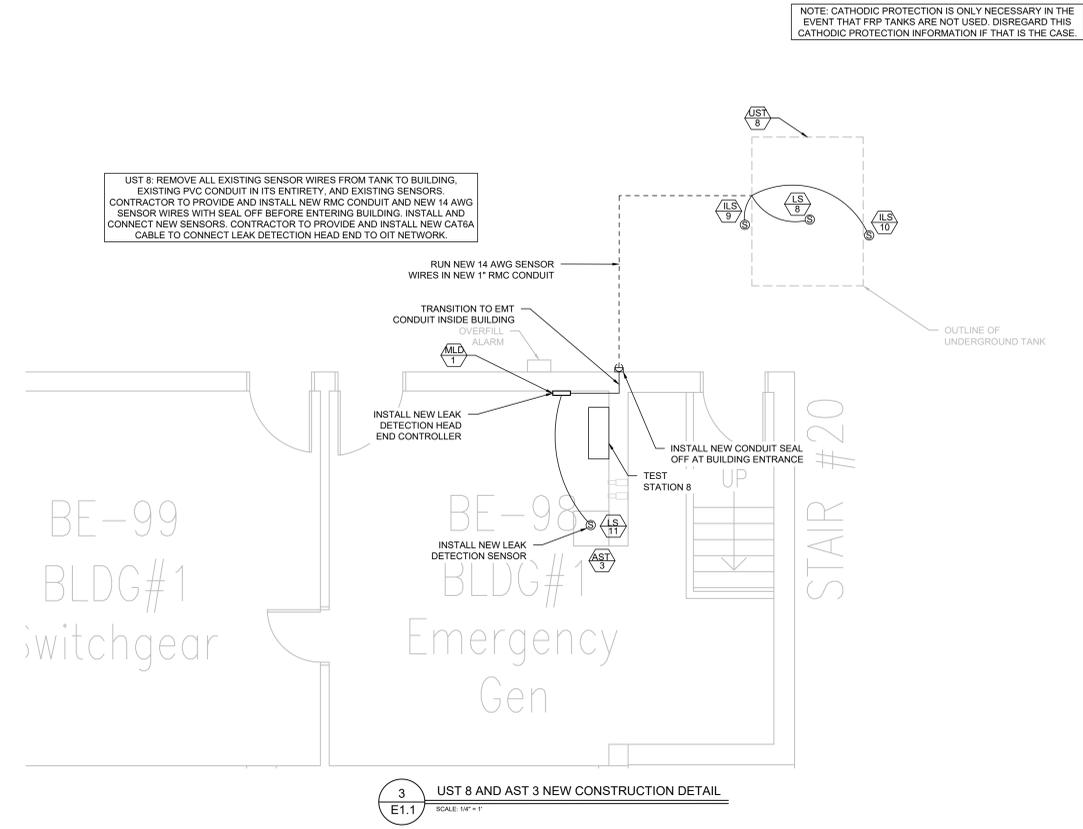
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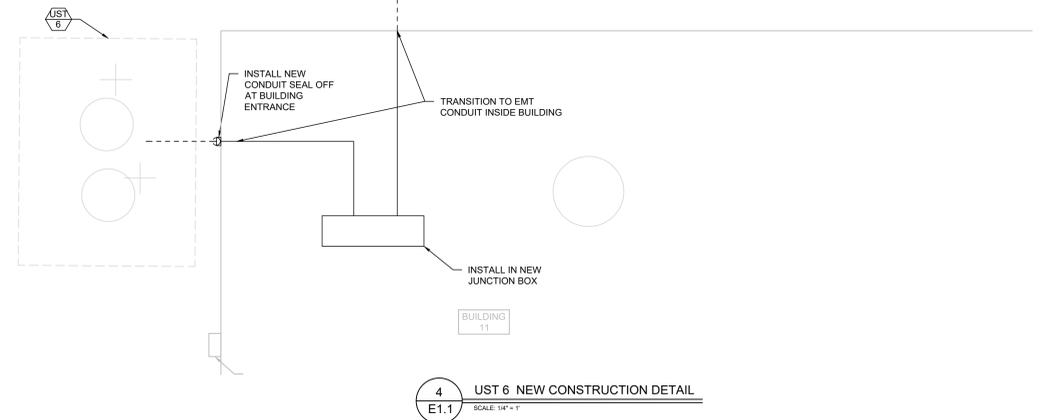
**1 UST 8 AND AST 3 DEMOLITION DETAIL**  
SCALE: 1/4" = 1'-0"



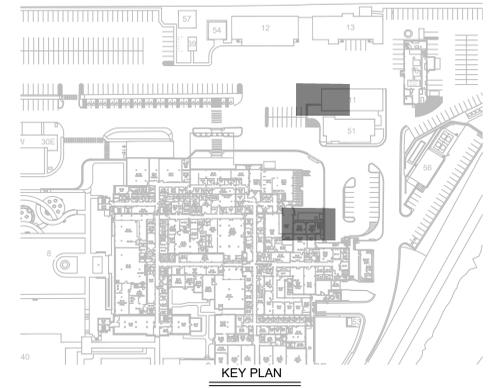
**2 UST 6 DEMOLITION DETAIL**  
SCALE: 1/4" = 1'-0"



**3 UST 8 AND AST 3 NEW CONSTRUCTION DETAIL**  
SCALE: 1/4" = 1'-0"



**4 UST 6 NEW CONSTRUCTION DETAIL**  
SCALE: 1/4" = 1'-0"

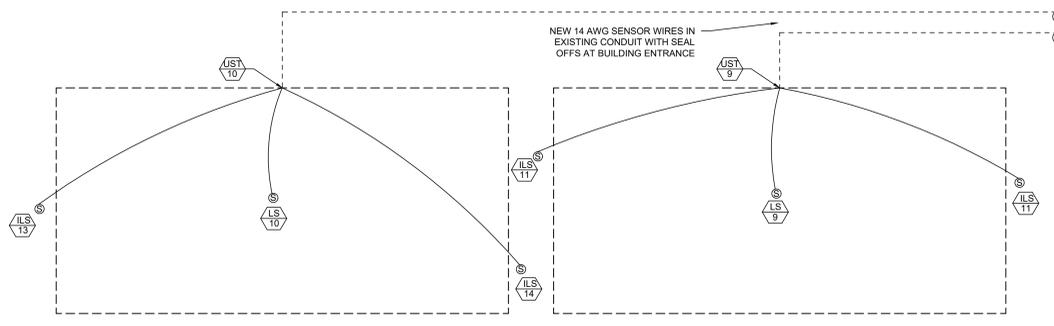
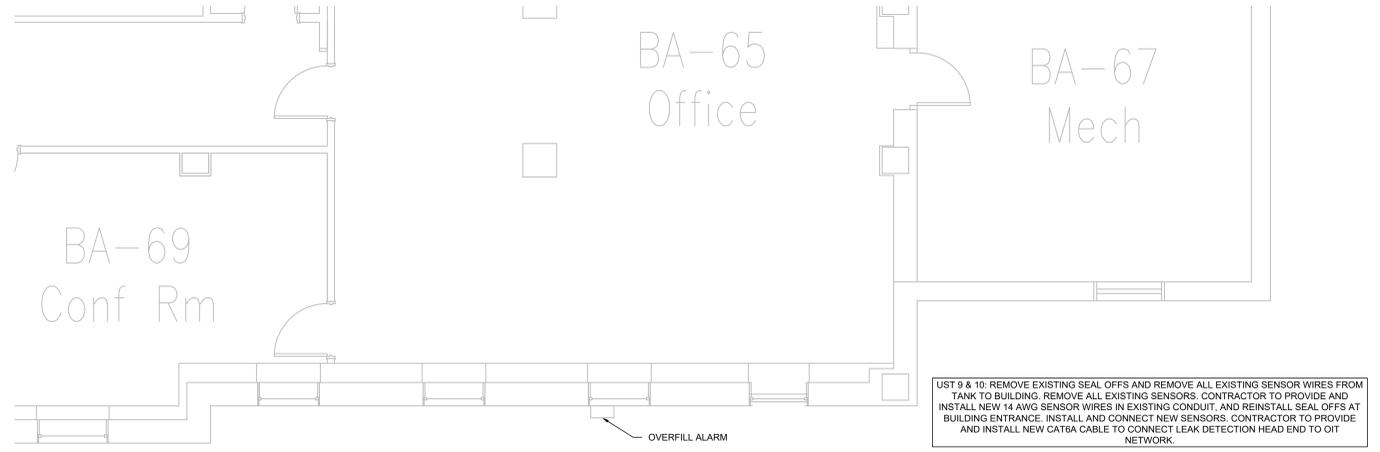


KEY PLAN  
SCALE: 1/16" = 1'-0"

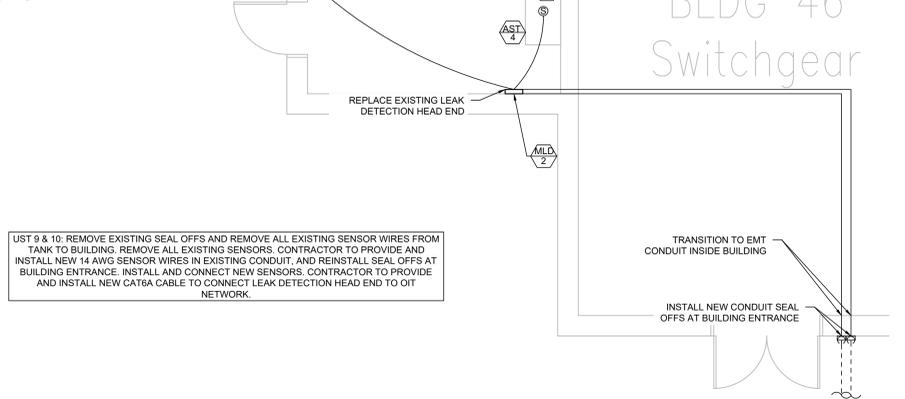
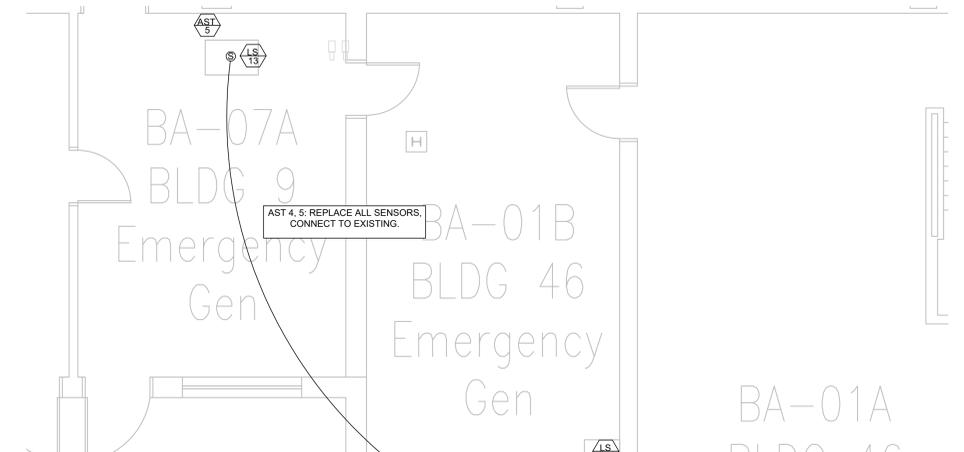
NOTE: CATHODIC PROTECTION IS ONLY NECESSARY IN THE EVENT THAT FRP TANKS ARE NOT USED. DISREGARD THIS CATHODIC PROTECTION INFORMATION IF THAT IS THE CASE.

**100% BID DOCUMENTS**

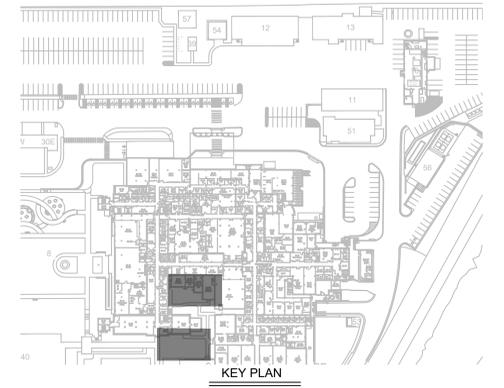
Revisions: _____ Date: _____	<b>CONSULTANT</b> PROTECTION ENGINEERING CONSULTANTS (PEC) 100 CREEK ROAD, SUITE 102 DRIPPING SPRINGS, TX 78620 PH: (512) 380-1988 WESTERN WATER CONSULTANTS (WWC) 1275 MAPLE STREET, SUITE F HELENA, MT 59601 PH: (406) 443-3962	MBN 503 7TH STREET, SUITE 200 FARGO, ND 58102 PH: (701) 478-6336 ENVIROS 220 RAMSEY STREET HASTINGS, MN 55033 PH: (651) 319-0170	<b>DESIGNER OF RECORD</b> <b>FOURFRONT</b> DESIGN INC 517 7TH STREET RAPID CITY, SD 57701 PH: (605) 342-9470 POC: JARED LOTT FFD PROJECT NO: 19.2481.M21	STAMP 	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title <b>UST 6 AND 8 ELECTRICAL                  FLOOR PLAN DETAILS</b> Approved: Project Director	Phase CONTRACT DOCUMENT	Project Title Replace USTs and Leak Detection System Phase 2	Project Number 437-24-101 Building Number _____ Drawing Number <b>E 1.1</b>	
	Location 2101 ELM STREET, FARGO, ND 58102	Issue Date 08/28/2025	Checked MC	Drawn WS						



1 UST 9 AND 10 NEW CONSTRUCTION DETAIL  
E1.2 SCALE: 1/4" = 1'

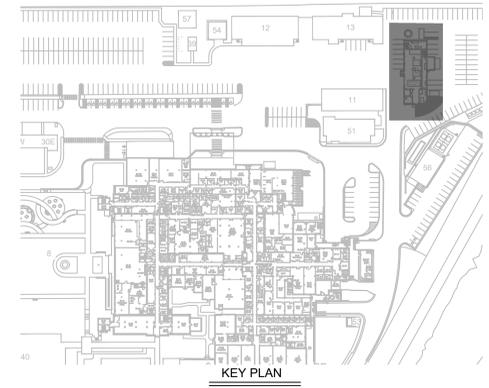
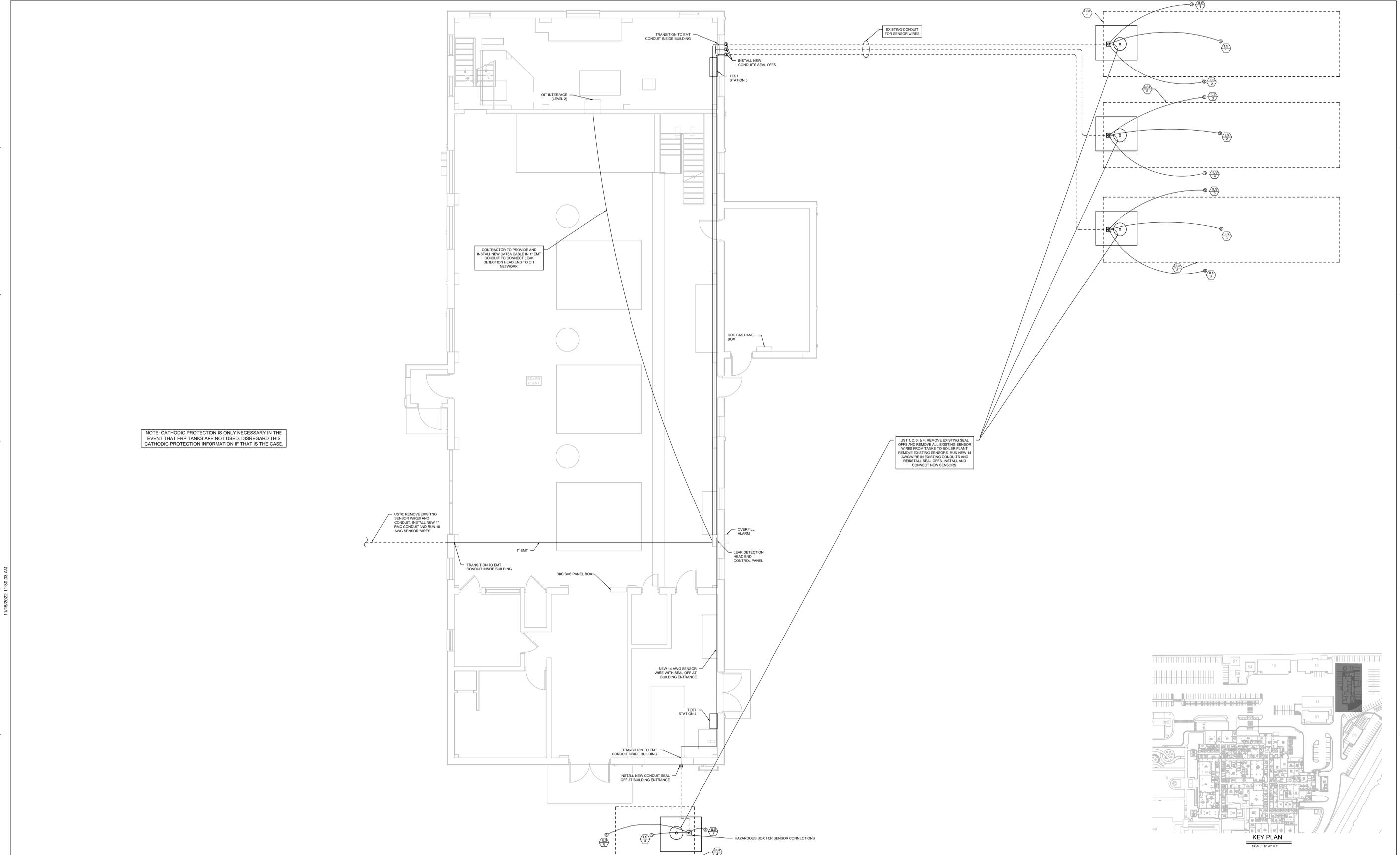


2 UST 9, 10 AND AST 4, 5 NEW CONSTRUCTION DETAIL  
E1.2 SCALE: 1/4" = 1'



100% BID DOCUMENTS

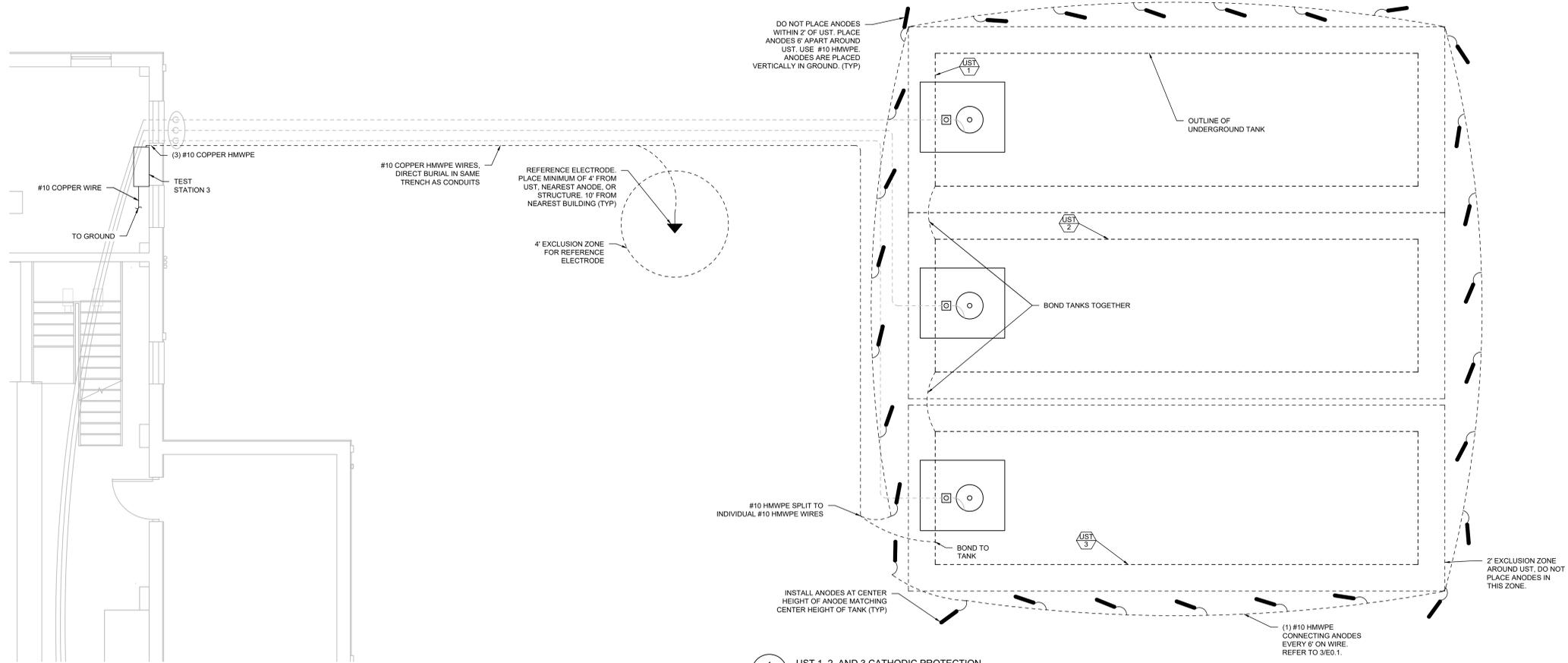
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		WESTERN WATER CONSULTANTS (WWC) 1275 MAPLE STREET, SUITE F HELENA, MT 59601 PH: (406) 443-3962	ENVIROS 220 RAMSEY STREET HASTINGS, MN 55033 PH: (651) 319-0170	517 7TH STREET RAPID CITY, SD 57701 PH: (605) 342-9470 POC: JARED LOTT	FFD PROJECT NO: 19.2481.M21	Approved: Project Director		Location 2101 ELM STREET, FARGO, ND 58102	Issue Date 08/28/2025	Checked MC	Drawn WS	Building Number _____



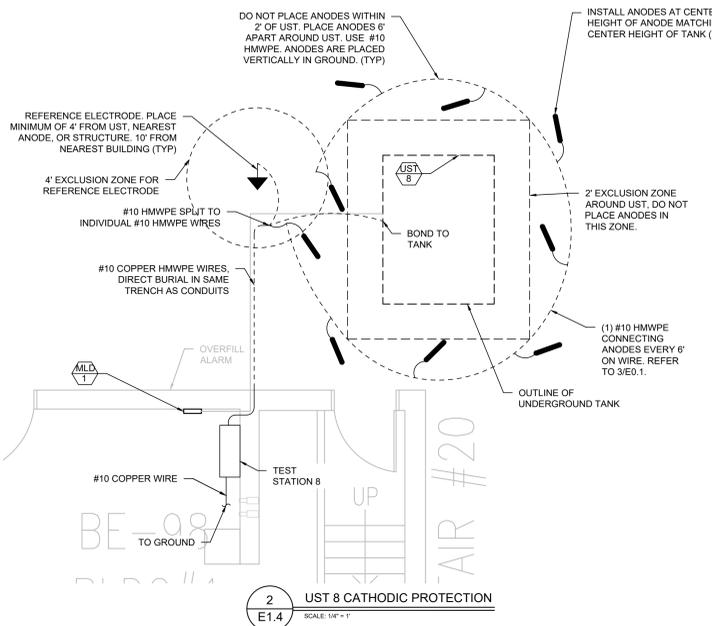
1 BOILER PLANT NEW CONSTRUCTION DETAILS  
E1.3 SCALE: 3/16" = 1'-0"

100% BID DOCUMENTS

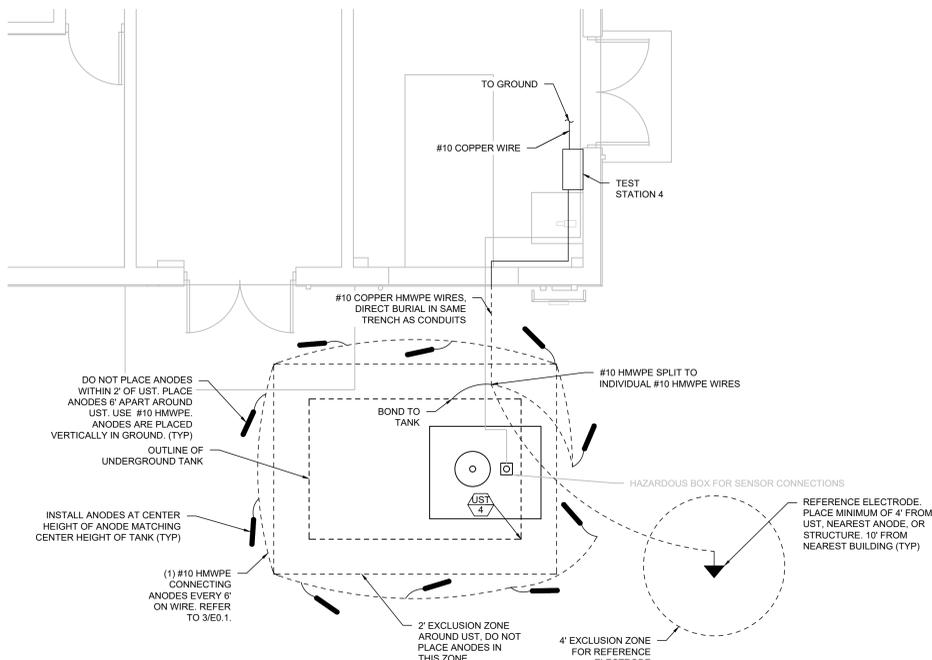
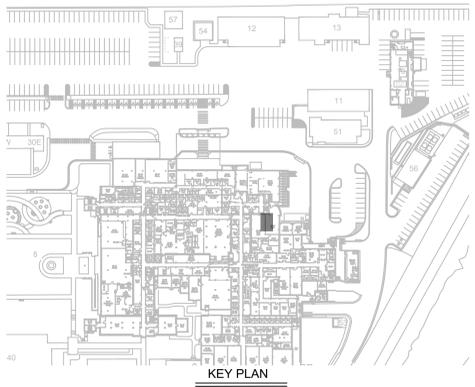
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	VA FORM 08-6231	1	2	3	4	5	6	7	8	9	10



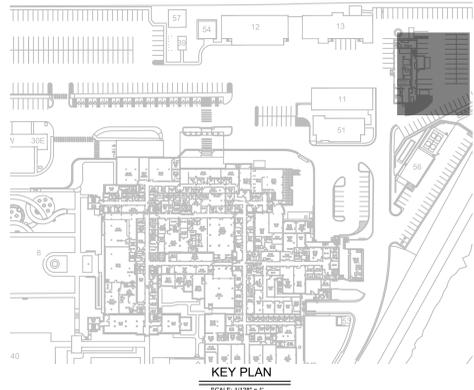
1 UST 1, 2, AND 3 CATHODIC PROTECTION  
E1.4 SCALE: 1/8" = 1'



2 UST 8 CATHODIC PROTECTION  
E1.4 SCALE: 1/8" = 1'



3 UST 4 CATHODIC PROTECTION  
E1.4 SCALE: 1/8" = 1'



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