UNDERGROUND FUEL STORAGE TANK REPLACEMENT
TOWN OF WATERTOWN HIGHWAY GARAGE

1. EXISTING CONDITIONS & DEMOLITION PLAN

- REMOVE EXISTING DISPENSERS, K800 PEDESTAL AND PUMP ISLAND. SAVE EXISTING GASOLINE DISPENSER AND K800 PEDESTAL FOR RE-USE.
- SAW CUT, REMOVE BITUMINOUS PAVER IN THE WORK AREA.
- REMOVE EXISTING GAUGING PROBES. SAVE FOR USE IN NEW TANKS. (TYP.)
- REMOVE EXISTING CONCRETE PAD, REMOVE BITUMINOUS PAVEMENT AND REPLACE WITH NEW CONCRETE PAD.
- EXPOSE, DETERMINE EXTENT OF FOOT PRINT OF EXISTING FUEL TANKS.
- DISCONNECT, EXPOSE, REMOVE UNDERGROUND WIRE UTILITIES AND CONSULT.
- INSTALL PERMANENT SHEET PILING ALONG SALT STORAGE BUILDING TO PROTECT STABILITY OF STRUCTURE. TO BE DESIGNED BY A GEOTECHNICAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT.
- INSTALL TEMPORARY SHEET PILING ALONG THE NORTH, SOUTH AND WEST SIDES OF THE ENCLOSURE. TO BE DESIGNED BY A GEOTECHNICAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT.
- FINAL EXCAVATION FOR PROPOSED TANKS. DISPOSE OF EXCAVATED MATERIAL.

2. PROPOSED INSTALLATION PLAN

- INSTALL UNDERGROUND FUEL STORAGE TANKS.
- EXCAVATE, LIFT ONE END OF, EMPTY, AND REMOVE EXISTING UNDERGROUND TANKS. EARTH MATERIAL AROUND TANKS TO BE LEFT IN PLACE.
- EXPOSE, DETERMINE EXTENT OF FOOT PRINT OF TANKS.
- INSTALL PERMANENT SHEET PILING ALONG SALT STORAGE BUILDING TO PROTECT STABILITY OF STRUCTURE. TO BE DESIGNED BY A GEOTECHNICAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT.
- INSTALL TEMPORARY SHEET PILING ALONG THE NORTH, SOUTH AND WEST SIDES OF THE ENCLOSURE. TO BE DESIGNED BY A GEOTECHNICAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT.

3. DETAILS AND SPECIFICATIONS

- UNDERGROUND FUEL STORAGE TANK REPLACEMENT: TOWN OF WATERTOWN HIGHWAY GARAGE
- LOCATION: 91 BURTON STREET, WATERTOWN, CONNECTICUT
- INSTALL UNDERGROUND FUEL STORAGE TANKS.
- EXCAVATE, LIFT ONE END OF, EMPTY, AND REMOVE EXISTING UNDERGROUND TANKS. EARTH MATERIAL AROUND TANKS TO BE LEFT IN PLACE.
- EXPOSE, DETERMINE EXTENT OF FOOT PRINT OF TANKS.
- INSTALL PERMANENT SHEET PILING ALONG SALT STORAGE BUILDING TO PROTECT STABILITY OF STRUCTURE. TO BE DESIGNED BY A GEOTECHNICAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT.
- INSTALL TEMPORARY SHEET PILING ALONG THE NORTH, SOUTH AND WEST SIDES OF THE ENCLOSURE. TO BE DESIGNED BY A GEOTECHNICAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT.

LEGEND

- EXISTING CONDITIONS & DEMOLITION PLAN
- PROPOSED INSTALLATION PLAN
- DETAILS AND SPECIFICATIONS

SCALE: 1" = 1000'
DEF Single Remote Dispenser

Single & Dual Tote Enclosures – Insulated & Heated

CIVIL – SITE CONSTRUCTION NOTES

REFERENCES

The following standard specifications are referenced herein and are considered part of these Contractual Specifications:

State of Connecticut Department of Transportation Standard Specifications for Roads, Bridges, Facilities, and Architectural Constructions, Form 837-2, 2015 (Form 837).

1. MODIFICATION AND REMARKS

Dismantle and demolish all materials and items to be done in accordance with all applicable local, state, and federal regulations.

2. STRUCTURAL REINFORCED CONCRETE

Primary Concrete Pumping Wells;

Concrete waterproofing, and the proposed pump well shall be Class “A” concrete, 2000 psi, 28-day strength, conforming to Section 6.0 of Form 837.

Diamond Tack Pad;

Concrete saddle pad made of the proposed pump well shall be 2-1/2” concrete, 4,000 psi, 28-day strength, conforming to Section 6.0 of Form 837.

Backfilling;

Materials and compaction methods for Black Base Sand Base will be per Section 6.8 of Form 837. The Bituminous Chip Seal shall be per 837-M-015. Bituminous Chip Seal shall be per 837-M-002. Blacktop should be 2-3/4” thick minimum and be placed in the roadbed and compacted.

3. EARTHMOVING AND STONE MATERIALS

FireToUpper;

Stone to be used as base, secondary gravel and intermediate aggregate with particle size ranging between 3/4” to 1-1/2” and greater than 1-1/2” to form the 96-98% specifications. Stone should be dense, well graded by ASTM C29, and must conform to 95-PT.

4. INSULATED CONCRETE PANEL PERFORMANCE

Blown Insulation;

Absorbs heat (10°F to 15°F) and increases R-value between 2.75 and 3.3. Blown Insulation shall be per ASTM C537 and C538. Blown Insulation conforming to the provisions of Section 6.08 and 6.09 of Form 837.

5. SHEET METAL

Perforated Sheet Metal;

Materials and construction methods for Perforated Sheet Metal shall comply with the provisions of Section 7.11 of Form 837.

Temporary Sheet Metal;

Materials and construction methods for Temporary Sheet Metal shall comply with the provisions of Section 7.11 of Form 837.

6. ELECTRICAL RANGLINES

Rangetech 15” x 25” x 3” standard, heavy duty. 5,400 psi concrete boxes with cast iron frame and cover, small for 60-450 (1500) high voltage, manufactured by West River Utilities, Inc., and employees.

7. COMBUSTIBLE RANGED LINES

Gas piping and ductwork shall be DWV 6. Type B, 1½” ceramic diameter. 30,000 psi,rated, where not required; non-combustible materials in combustible areas, gas approved equal. Installation shall be in strict accordance with manufacturers’ instructions. All accessories to be supplied by the manufacturer.

Connector to be supplied in accordance with applicable IDOB 1170 regulations.

MECHANICAL NOTES

8. ITEMS TO REMAIN IN PLACE FOR REUSE

The existing electrical, heating, and cooling systems, water supply, fuses, transmission lines, and emergency power that will remain in place at cost and at the bidder’s risk.

9. ITEMS TO BE REMOVED AND RE-INSTALLED FOR USE

The existing RO pump and key pad, and the existing gasline dispenser will be re-installed and re-traced.

10. PROPOSED DIESEL DISPENSER

Select series electric, electronic fuel feeding dispenser with a pump, fuel meter, and fuel meter gauge. 2” GPM Fuel Pump model 715/200/32400 with one non-car meter and one high-volume instruction meter for reading fuel quantity and approved equal.

11. PROPOSED DEF ENCLOSURE

Knockdown, 100 gallon, insulated and heated single tank enclosures, at approved equal.

12. DEF DISPENSER

Single cistern, electric, insulated, hooded DEF dispenser with pump, model 458-113/72-DHEX-1 by Race Fueling Systems or approved equal.

13. DEF FLEXIBLE PIPING

1/2” flexible stainless steel braided DEF piping, manufactured with brass hose, 10 feet, with detonated plastic real gasket Omegegaskets, or approved equal. All accessories to be supplied by the manufacturer.