

**Addendum
No. 5**

Date: June 29, 2020
Project: GSS Surplus and Fleet Services Renovation
Project No: MJ1002000040

The work herein shall be considered part of the bid documents for the referenced project and carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. Acknowledge receipt of addendum on the bid form as indicated.

Requests for Information:

1. **Question:** Please confirm that the owner will perform concrete and soil testing.
Response: Yes
2. **Question:** Is temporary fencing required?
3. **Response:** Temporary fencing and gates shall be provided to block access to the parking lot during demolition and construction.
4. **Question:** Please clarify the aluminum finishes. The Storefront section 084313 states Class 1 Natural Anodized (clear anodized) and the Window section states High Performance Organic Coatings (Painted). Are you looking for different finishes?
5. **Response:** All windows and storefronts should have a high performance organic coating.
6. **Question:** The storefront section references Glass Vent operating windows. The window section and the drawings show fixed. Please confirm that operating Glass Vent windows are not required.
Response: All exterior windows are fixed.
7. **Question:** If in fact W02, W03, W04 are fixed, can Storefront Framing per Section 084313 be used for continuity? If not, what is the basis of design for the manufactured windows? (It's not stated in specs).
Response: Basis of design is Kawneer NX-380. Storefront framing can be used for continuity.
8. **Question:** Section 084313 Aluminum Framed Storefronts, 1.05 Submittals, paragraph E calls for Engineering Calculations. With the window sizes being no where close to the system limits, do you really need the expense of engineer stamped shop drawings with calcs?
Response: Shop drawings still need to be submitted but without an engineer's stamp. Engineered calculations can be eliminated.
9. **Question:** Section 085659 indicates furnishing a maximum security hook lock. The transaction window shown as W05 with details will not except a

hook lock. Please provide a basis of design for W05 or advise if a maximum security hook lock is required and I'll find a window that will except it.

10. **Response:** Basis of design is Ready Access 275 Single Panel Manual Open / Self –Closing Slider Window.

11. **Question:** Section 28 13 00 – Access Control

Will this system be tied in with the Capitol Police Department's access control database?

12. **Response:** Yes.

13. Question #7: there are not many new interior slabs on this project. You want a pest control treatment, inspection, and warranty for this small area? Please clarify.

Response: Yes.

14. Question #8: the answer refers to the new well. The question is regarding CCR reports, which if required, is a weekly site and E&S control inspection. Please clarify if they are required, and if the GC or the owner will be responsible.

15. **Response:** Yes and the GC will be responsible.

Changes to Drawings:

1. AD101 – Demolition Plans
 - a. Revised note D12 to say "VCT REMOVE BY OWN'ER'S ENVIRONMENTAL CONTRACTOR. GRIND AND SHOTBLAST AS NECESSARY TO PROVIDE PROPER SURFACE FOR NEW ADHESIVES INCLUDING BUT NOT LIMITED TO 4" PERIMETER BASE ADHESIVES, TRIM, TRANSITION STRIPS DOWN TO CONCRETE SLAB. CLEAN AND PREP SLAB FOR NEW FLOOR FINISH."
 - b. Revised note D20 to say "DEMOLISH AND DISPOSE OF EXISTING ROOFING SYSTEM, INCLUDING BUT NOT LIMITED TO INSULATION, BLOCKING, UNDERLAYMENT, EPDM, ECT. OWNER'S ENVIRONMENTAL CONTRACTOR SHALL REMOVE ROOF MEMBRANE. COORDINATE SCOPE AND SCHEDULE WITH ENVIRONMENTAL CONTRACTOR."
 - c. Revised note D21 to say "DEMOLISH AND DISPOSE OF PORTION OF EXISTING ROOF WOOD DECKING THAT HAS BEEN WATER DAMAGED. REVIEW SCOPE WITH STRUCTURAL ENGINEER WHEN ROOFING IS REMOVED, ALLOW FOR 800 SQ FT.."
 - d. Added additional areas of roof deck replacement.
 - e. Revised note D26 to say "DEMOLISH AND DISPOSE OF PORTION OF EXISTING CONCRETE CURB FOR NEW CONCRETE LANDING AND STEPS.
 - f. Added note D36 "EXISTING SUMP DRAIN TO REMAIN. PROVIDE NEW COVER."

- g. Added note D38 "SAW CUT AND REMOVE CMU FOR NEW OPENING. PROVIDE NEW LINTEL AT ALL NEW OPENINGS." Added to All new opening locations see revised AD101.
 - h. Added note D39 "DEMOLISH AND DISPOSE OF EXISTING ROOFING SYSTEM DOWN TO DOWN TO STUCTURE, INCLUDING BUT NOT LIMITED TO INSULATION, BLOCKING, UNDERLAYMENT, EPDM, AND WOOD DECK. OWNER'S ENVIRONMENTAL CONTRACTOR SHALL REMOVE ROOF MEMBRANE. COORDINATE SCOPE AND SCHEDULE WITH ENVIRONMENTAL CONTRACTOR."
 - i. Added additional column locations to be removed.
2. A-101 – Construction Plans
- a. Revised note C8 to say "3'-0" x 7'-0" HOLLOW METAL CASED OPENING".
 - b. Revised note C20 to say "FILL AND RESTORE AREA WHERE SIDEWALK WAS REMOVED. PROVIDE 4" TOP SOIL AND SEED."
 - c. Revised note C21 to say "EXISTING SUMP DRAIN TO REMAIN. PROVIDE NEW COVER."
 - d. Revised note C4 to say "EXISTING SECTIONAL GARAGE DOORS TO REMAIN. PROVIDE NEW BULB SEAL AT BOTTOM AND NEW WEATHER STRIPPING AT HEAD AND JAMBS. LUBRICATE AND SPRINGS AND MECHANICAL PARTS TO PROVIDE A SMOOTH OPERATION ON ALL DOORS."
 - e. Revised note C10 to say " TYPICAL EPDM ROOF SYSTEM:
 - 60 MIL FULLY ADHERED EPDM SINGLE PLY MEMBRANE ROOFING: SEAMED AND FULLY ADHERED TO OVERLAYMENT PER ROOF SYSTEM MANUFACTURER'S REQUIREMENTS.
 - POLYISOCYANURATE ROOF INSULATION: (2) LAYERS (MIN.) WITH STAGGERED JOINTS EACH LAYER MECHANICALLY ATTACHED TO THE ROOF DECK PER ROOF SYSTEM MANUFACTURER'S REQUIREMENTS. (MINIMUM LTTR VALUE R-30). SLOPE INSULATION TO ROOF EDGE A MINIMUM ¼" PER 1'-0".
 - ICE AND WATER SHIELD BARRIER
 - ½" SHEATHING BOARD
 - EXISTING WOOD DECK AND STRUCTURE TO REMAIN"
 - f. Revised note C15 to say " CANOPY FULLY ADHERED EPDM ROOF SYSTEM:
 - 60 MIL FULLY ADHERED EPDM SINGLE PLY MEMBRANE ROOFING: SEAMED AND FULLY ADHERED TO OVERLAYMENT PER ROOF SYSTEM MANUFACTURER'S REQUIREMENTS.
 - 1" POLYISOCYANURATE ROOF INSULATION
 - ICE AND WATER SHIELD BARRIER
 - ½" SHEATHING BOARD
 - PRESSURE TREATED WOOD BLOCKING SLOPED TO 1/8" PER FOOT
 - EXISTING WOOD DECK AND METAL STRUCTURE TO REMAIN"

- g. Revised note C18 to say "5" CONCRETE SIDEWALK AND STONE BASE. SEE 4/A-502 FOR ADDITIONAL DETAILS."
- h. Revised note C19 to say "5'-0" WIDE x 5'-0" LONG x 5" THICK CONCRETE SLAB AND 4" CRUSHED STONE BASE. SEE 4/A-502 FOR ADDITIONAL DETAILS."
- i. Added slope information to canopy.
- j. Added additional bollards to the exterior of Open Bay doors.
- k. Added additional Construction Note #14.

- 3. A-501 - Details
 - a. Added additional notes to details 5/A-502 and 7/A-502.
 - b. Revised 4/A-502.
- 4. ASK-04 – Room Signage Sketch
 - a. Revised Breakroom to say no signage.
 - b. Revised Warehouse signage quantities.

Changes to Specifications:

- 1. 22 11 13 – Potable Water Supply Wells
See attached revised specification.

Attachments:

- 1. Specification 22 11 13 – Potable Water Supply Wells
- 2. AD101
- 3. A-101
- 4. A-501
- 5. ASK-04

END

SECTION 33 11 13
POTABLE WATER SUPPLY WELLS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Drilling and casing water well.
- B. Pump and controller.
- C. Water system tank
- D. Water and system testing and certification.

1.02 RELATED REQUIREMENTS

- A. Section 26 27 17 - Equipment Wiring.

1.03 PRICE AND PAYMENT PROCEDURES

- A. See Section 01 22 00 - Unit Prices, for additional unit price requirements.
- B. Water Well:
 - 1. Basis of Measurement (Change in Well Depth): By the vertical foot of actual well depth change from Base Bid and recorded in Project record Documents.
 - a. Payment for each specified item will be made at the contract unit price for that item. Payment includes full compensation for equipment, materials and labor for drilling; removal and disposal of temporary casing, cuttings, and drill fluid; preparation of borehole logs; and sample handling, containers, storage, and testing. Measure depth, logging, installation, casing, riser pipe, and well screen by linear distance. Payment is not allowed for test wells or wells abandoned due to construction practices not in accordance with this specification, faulty construction practices or for the convenience of the Contractor. The contractor shall include cost for 200 ft deep test well and separate 200 ft deep production well in base bid.
 - 2. Test Well - BASE BID DEPTH = 200 FT
 - a. Compensation for the test well will be made at the contract unit price and includes material, equipment, and labor required to drill and perform tests on the test well. Measure depth as the total linear distance between ground surface and bottom of hole. If the total depth of hole is greater than that specified on the contract for "Test Well," the additional depth will be paid for at the contract unit price for "Additional Test Well Depth." If the test well is developed into the permanent well with no increase in diameter, compensation will be as described below, and separate payment will not be made for the test well.
 - 3. Water Well - BASE BID DEPTH = 200 FT
 - a. Compensation for the water well will be made at the contract unit price and includes material, equipment, and labor required to drill, develop, perform tests, and complete the permanent well. Measure depth as the total linear distance between ground surface and bottom of hole. If the total depth of well is greater than that specified in the contract for "Water Well," the additional depth will be paid for at the contract unit price for "Additional Water Well Depth."

1.04 REFERENCE STANDARDS

- A. ASME BPVC-VIII-1 - Boiler and Pressure Vessel Code, Section VIII, Division 1 - Rules for Construction of Pressure Vessels.
- B. ASTM A53/A53M - Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless.
- C. AWWA A100 - Water Wells.

- D. AWWA C900 - Polyvinyl Chloride (PVC) Pressure Pipe, 4 In. Through 12 In. (100 mm Through 300 mm), for Water Transmission and Distribution.
- E. NEMA MG 1 - Motors and Generators.
- F. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum).

1.05 ADMINISTRATIVE REQUIREMENTS

- A. Scheduling: Install well in time to have permanent water supply available for testing building water distribution piping on or before Substantial Completion.

1.06 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Include data indicating rated capacities, weights, accessories, electrical nameplate data, and wiring diagrams.
- C. Certificate: From Authority Having Jurisdiction indicating suitability of water for human consumption.
- D. Submit executed certification of well pump after performance testing.
- E. Manufacturer's Installation Instructions: Indicate rigging, assembly, and installation instructions.
- F. Accurately record actual locations of well, depth, subsoil strata, and drilling difficulties encountered.
- G. Submit signed copy of driller's log book statements.

1.07 QUALITY ASSURANCE

- A. Drilling Firm: Company specializing in performing the work of this Section with minimum 5 years documented experience.

PART 2 PRODUCTS

2.01 WATER WELL

- A. Water Well: Provide a water well complying with AWWA A100 and having the following characteristics:
 - 1. Comply with all applicable regulatory and utility requirements.
 - 2. Capacity: Capable of producing a minimum 8 gallons of water per minute.

2.02 MATERIALS

- A. Well Casing (PVC): AWWA C900 PVC, 4 inch internal diameter pipe, with ventilated well cap.
- B. Grout: Portland cement type, no admixtures.

2.03 PUMP

- A. Manufacturers:
 - 1. Goulds.
 - 2. Grundfos
 - 3. Red Lion
 - 4. Substitutions: See Section 01 60 00 - Product Requirements.
- B. Type: Vertical shaft, multiple stage, close coupled, for insertion in 4 inch diameter pipe.
- C. Casing: Stainless steel housing and intake screen, check valve with stainless steel stemp and valve seal with rubber seal built into discharge casing.
- D. Impellers and Diffusers: Bronze.
- E. Shaft: Stainless steel with stainless steel shaft sleeve.
- F. Motor: NEMA MG 1, submersible type: 8GPM wet end with 1 HP motor (240V/1PH); full pump characteristics to be determined following receipt of test well data.

- G. Pump Controller: NEMA 250 Type 1 enclosure with main disconnect interlocked with door, containing across-the-line electric motor starter with starting relay and ambient compensate quick trip overloads in each phase with manual trip button and reset button; circuit breaker, control transformer, hand-off-automatic selector switches, pilot light.
- H. Disconnect: NEMA 250 Type 3R enclosure.
- I. Pressure Sensing Switch: Low voltage relay type, fixed settings to start at 20 psig and shut-off at 40 psig and low pressure cutoff set at 20 psig.
- J. Pump Lift Cable: Stainless steel, multi-stranded aircraft cable, high tensile strength; cable ends fitted with closed loop fittings; length of cable equals depth of shaft plus 20 feet.

2.04 TANK

- A. Manufacturers:
 - 1. Goulds.
 - 2. Amtrol
 - 3. A.O. Smith
 - 4. Substitutions: See Section 01 60 00 - Product Requirements.
- B. Tank: Powder coated steel, tested and stamped in accordance with ASME BPVC-VIII-1; pressurized diaphragm type for pipe mount; tapping for installation of piping and accessories:
 - 1. Tank Volume (Total): 80 gal.
 - 2. Working Pressure: 125 PSIG.
 - 3. Warranty: 5 year.
 - 4. Heavy Duty Butyl Diaphragm.
 - 5. Stainless Steel System Connection.
 - 6. Deep Drawn Steel Tank with Powder Coat Finish.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that site conditions will support equipment for performing drilling operations.

3.02 PREPARATION

- A. Protect structures near the well from damage.
- B. Provide water truck and water as required for drilling operations.

3.03 ABANDONMENT OF EXISTING WELL

- A. Remove existing well pump.
- B. Sound well to determine depth and abandon with grout per State of Delaware regulations.
- C. Cut shaft 2ft below grade and provide site restoration and grass seed.
- D. Complete and submit well abandonment report to State of Delaware.

3.04 DRILLING

- A. Drill concentric well shaft to diameters and depths indicated. Stabilize soil.
- B. Record soil and sediment type at various levels, record static water level and analyze sediment at pump depth to determine screen slot size and gravel size.
- C. Provide water truck for drilling as required and waste water is to be disposed on site in accordance with State of Delaware regulations.
- D. Place well casing immediately after drilling with 20ft of well screen. Set firmly in place.
- E. Provide gravel surrounding slots at pumping depth.
- F. Clean shaft bottom of loose material.

- G. Allow inspection of casing prior to placement of grout.
- H. Place grout tight to surrounding work in accordance with regulatory requirements.
- I. Maintain well opening and casing free of contaminating materials.
- J. Cut off shaft top 24 inches above grade. Do not permit metal cuttings to enter casing.
- K. Flush well until suspended solids are satisfactorily clear as determined by the water treatment vendor.
- L. Coordinate with water treatment contractor for well disinfection.
- M. Contractor to perform 24-hour constant rate pump test as required by the State of Delaware.

3.05 INSTALLATION - PUMP AND TANKS

- A. Install pump and accessories in accordance with manufacturer's instructions.
- B. Electrical Connections: Refer to Section 26 27 17.
- C. Install diaphragm tank per manufacturer's recommendations.

3.06 FIELD QUALITY CONTROL

- A. Notify Authority Having Jurisdiction, 3 days prior to flow rate testing.
- B. Test flow rate and certify.
- C. Provide written certification of flow rate, disinfection, and pH stabilization.

3.07 CLEANING

- A. Flush piping with running water in preparation for disinfecting and testing.

END OF SECTION