May 3, 2022

BID ADDENDUM 1

Project: Warwick Valley CSD
High School
Renovations, Field Work, Roofing and Exterior Bathroom Building

Owner: Warwick Valley CSD
225 West Street Ext
Warwick, NY 10990

Engineer: Eisenbach & Ruhnke Engineering, P.C.
291 Genesee Street
Utica, NY 13501
E&R Project #: 05-21-04

THE FOLLOWING CHANGES, DELETIONS AND ADDITIONS TO THE SPECIFICATIONS AND DRAWINGS SHALL BECOME AND ARE HEREBY MADE PART OF THE CONTRACT DOCUMENTS DATED APRIL 8, 2022. THEY CHANGE THE ORIGINAL DOCUMENTS ONLY IN THE MANNER AND TO THE EXTENT STATED.

THE FOLLOWING ARE MODIFICATIONS, CLARIFICATIONS, DELETIONS OR ADDITIONS TO THE SPECIFICATIONS:

ITEM #1 – Change all references to the bid date to the following.

- Sealed bids will be received by the Board of Education, at the Warwick Valley Central School District until 2:00 PM on the ***13th of May 2022*** at which time they will be publicly opened and read aloud.

ITEM #2 – Specification Section 01 1000 – Summary of Contracts

- Delete Specification Section 01 1000 in its entirety and replace with the attached Revised Section 01 1000.

ITEM #3 – Specification Section 22 1005 – Plumbing Piping

- Delete Specification Section 22 1005 in its entirety and replace with the attached Revised Section 22 1005.

ITEM #4 – Specification Section 23 0000 – HVAC Scope of Work

- Delete Specification Section 23 0000 in its entirety and replace with the attached Revised Section 23 0000.

ITEM #4 – Add the following Specification Sections:

- Section 31 2200 – Grading
- Section 32 3113 - Chain Link Fences and Gates
- Section 32 8423 - Underground Sprinklers
- Section 32 9223 - Sodding

THE FOLLOWING ARE MODIFICATIONS, CLARIFICATIONS, DELETIONS OR ADDITIONS TO THE DRAWINGS:

ITEM #1 – Drawing P-001 – Abbreviations and Notes

- Delete Drawing P-001 in its entirety and replace with the attached Revised Drawing P-001.

ITEM #2 – Drawing BB P-100 – Bathroom Floor Plan – New Work

- Delete Drawing BB P-100 in its entirety and replace with the attached Revised Drawing BB P-100.

ITEM #3 – Drawing P-500 – Schedules and Details

- Delete Drawing P-500 in its entirety and replace with the attached Revised Drawing P-500.

ITEM #4 – Drawing FF E-103 – Partial Site Plan – New Work

- Delete Drawing FF E-103 in its entirety and replace with the attached Revised Drawing FF E-103.

ITEM #5 – Drawing S-122 – Drainage Plan

- Delete Drawing S-122 in its entirety and replace with the attached Revised Drawing S-122.

ITEM #6 – Drawing S-124 – Paving Plan

- Delete Drawing S-124 in its entirety and replace with the attached Revised Drawing S-124.

ITEM #7 – Drawing HS M-103 – Partial Roof Plan – Kitchen, Servery & Cafeterias – Demolition & New Work

- Delete Drawing HS M-103 in its entirety and replace with the attached Revised Drawing HS M-103.

ITEM #8 – Drawing BB E-100 – Bathroom Floor Plan – New Work

- Delete Drawing BB E-100 in its entirety and replace with the attached Revised Drawing BB E-100.

ITEM #9 – Sketch SK-1

- Add the Attached Sketch SK-1 showing locations of new drop ceilings near Cafeterias/Kitchen.

GENERAL

A. Pre-Bid Meeting Minutes and Sign in Sheet are Attached
B. Project Budget
C. The work highlighted below shall be performed as described in the specifications.
    1. The General Construction Contractor shall perform all cutting, patching, and the installation of steel to support the new roof top mechanical units.

2. The new steel columns must penetrate the roof where shown to connect to the existing structure; the roof top steel is shown schematically on the contract drawings – it shall be configured to properly support the mechanical units being installed by the Mechanical Contractor when shop drawings are presented.
3. All trades shall install and maintain roof protection when working on existing and new roof surfaces. Protection shall consist of a layer of foam insulation, covered with 2 by 10 wood planks.
4. The General Construction Contractor shall perform all cutting and patching and install the new mechanical curbs; the curbs shall be furnished and located on the roof, by the Mechanical Contractor.
5. Roof top duct support legs shall rest on concrete pavers, positioned over walk pads, the General Construction Contractor shall furnish and install the pavers and pads.
6. The General Construction Contractor shall install rigid insulation and fully adhered EPDM waterproofing on all roof top ducts.
7. The District will provide storage space and pay for material and equipment properly stored, if the Contractors wish to obtain the materials and equipment needed in advance of actual installation. Proper storage techniques shall include position the material and equipment on wood pallets to elevate it off the ground and covering it with two layers of tarps. Handling the material and equipment to move it to the point of installation, shall be included in the Base Bid.
8. The District will not accept any change order requests for material or equipment price increases after the bids are submitted.
9. The General Construction Contractor shall clean debris that results from the roof replacement work, from the top surfaces of ceilings – except where new ceilings will be installed (by others under a separate contract), where indicated on the attached schematic plan.
10. All trades working on the roof must protect the roof.
11. Curbs for HVAC equipment will be furnished by the HVAC Contractor and installed by the roofer.

CONTRACTOR QUESTIONS/RFI'S

RFI #1 – Wallkill Dated 4/11/22
RFI #1 – Lombardo Dated 4/25/22
RFI #2 – Lombardo Dated 4/25/22
RFI #001 – Landscape Unlimited Dated 4/26/22
RFI #1 – TM Brennan Dated 4/22/22
RFI #1 through #23 – Ashley Mechanical Dated 4/28/22
RFI #1 through #3 – Fanshaw/Rockland Electric Dated 4/28/22
RFI #1 through #5 – Barrett Roofing Dated 4/29/22
RFI #1 – Milcon Dated 5/5/22

END OF ADDENDUM

SECTION 01 1000
SUMMARY OF CONTRACTS

PART 1 GENERAL

1.01 PROJECT

A. Project Name: Warwick Central School District High School Renovations, Field Work, Roofing and Exterior Bathroom Building.

B. Owner's Name: Warwick Valley Central School District.

C. Engineer's Name: Eisenbach and Ruhnke Engineering, P.C.

1.02 CONTRACT DESCRIPTION

A. Contract Type: Multiple prime contracts, each based on a Stipulated Price as described in Document 00 5000 - Contracting Forms and Supplements.

B. The work of each separate prime contract is identified in this section and on the Drawings.

1. Contract #1 is for General Construction
   a. Cafeterias/Kitchen/Servery – Remove existing ceiling and provide new ceilings. Infill openings in walls from grilles and transfer grilles. Coordinate with HVAC and electrical contractors.
   b. Protect the floors against damage during the construction. Provide Masonite or equal over rosin paper.
   c. Hallway outside north cafeteria – Replace ceiling in area indicated after ceiling mounted unit ventilator is removed. Coordinate with electrical contractor.
   d. Main Lobby – Replace ceiling with insulated ceiling tile.
   e. Bathroom Building – Construct new bathroom building including all excavation and backfill required.

2. Contract #2 is for Electrical Work
   a. Provide new 800 amp electric panel for roof top units and make-up air units.
   b. Provide power to roof top units and make up air units.
   c. Replace lights in high school as indicated.
   d. Where the conduit for the new 800 AMP panel runs through the hallway, repair the ceiling, and restore to match existing. The District will furnish the grid and tile for the contractor to use as needed.
   e. Bathroom Building – Extend power from the panel next to the scoreboard. The trench for the conduit will be provided by the Site contractor including backfill. This includes the pole mounted lights on the walkway.
   f. Provide all electric indicated for bathroom building.
   g. Provide fire alarm work indicated.
   h. After new HVAC systems are commissioned, disconnect power to existing HVAC equipment marked for removal, serving the Kitchen/cafeteria area and lobby. Remove wiring as indicated back to their respective panels.

3. Contract #3 is for Plumbing Work
   a. Provide gas service to the new RTUs and MAUs.

b. Provide the plumbing for the bathroom building as indicated.
c. Provide the sewage ejector pumps and pipe to manhole near High School. Trench excavation by Site Contractor.

4. Contract #4 is for HVAC
   a. Kitchen/Cafeteria/ Servery – Provide the HVAC systems including RTUs, MAUs, ductwork and related materials. Insulate as specified.
   b. Main Lobby – Provide the HVAC equipment, ductwork and related materials. Insulate as specified.
   c. Provide DDC controls for all new equipment
   d. The existing ceiling mounted unit ventilators and cabinet heaters are to be removed as shown.
   e. Coordinate work with other trades.
   f. Bathroom Building – Provide exhaust fans and ductwork.
   g. After the new equipment is commissioned, disconnect the existing equipment in the penthouse. Cut and seal ductwork as shown.
   h. The UV-C lights and controls for the UV-C lights will be provided by the District. This work is not in the contract.
   i. Curbs for HVAC equipment to be furnished by the HVAC Contractor and installed by the roofer.

5. Contract #5 is for Fields (Site Work)
   a. Replace the track and field event areas indicated. Add 2 lanes to the track.
   b. Regrade and provide the sod field as indicated.
   c. Pave the areas indicated.
   d. Excavate the areas required for the new electrical lines to the new bathroom building and the septic line to the high school.
   e. Provide the fencing and gates indicated.
   f. Provide the drainage system indicated.
   g. Provide the irrigation system indicated and coordinate with other contractors for bathroom building.
   h. The field lighting work changes are being done by the District.
   i. The electrical system for timing track events will be installed by the District.
   j. The District will modify the bleachers as required.
   k. The work will begin after 2022 graduation. The new track surface and project completion are to be completed in spring of 2023.

6. Contract #6 is for Roofing
   a. Replace the roof indicated.
   b. Provide the steel indicated for the new rooftop units and makeup air units. The columns penetrating the roof will not be changed even if the unit brand is changed. The above roof horizontal steel might have to be modified but not the roof penetrations.
   c. Remove the abandoned curbs, infill openings and roof over the area.
   d. Provide openings for ductwork in roof as indicated.

e. Clean top of ceiling tile only where ceilings not being replaced as part of project.
f. Schedule to be coordinated when date for delivery of materials determined.
g. Materials delivered to District property and stored as directed by Engineer will be paid for by the District. Materials not on District property will not be paid for by the District.
h. Per the specification, after the roof work is done, clean the top of the ceilings where the ceilings not being replaced.
i. Provide the asbestos abatement indicated for the holes in walls at gym and main lobby.
j. Curbs for HVAC equipment to be furnished by the HVAC Contractor and installed by the roofer.

1.04 OWNER OCCUPANCY

A. Owner intends to continue to occupy adjacent portions of the existing building during the entire construction period.

B. Cooperate with Owner to minimize conflict and to facilitate Owner's operations.

C. Schedule the Work to accommodate Owner occupancy.

1.05 CONTRACTOR USE OF SITE AND PREMISES

A. Construction Operations: Limited to areas noted on Drawings.

B. Arrange use of site and premises to allow:
   1. Owner occupancy.
   2. Work by Others.
   3. Work by Owner.

C. Provide access to and from site as required by law and by Owner:
   1. Emergency Building Exits During Construction: Keep all exits required by code open during construction period; provide temporary exit signs if exit routes are temporarily altered.
   2. Do not obstruct roadways, sidewalks, or other public ways without permit.

D. Existing building spaces may not be used for storage unless authorized by Owner.

E. Storage is limited on the site. Contractors should assume that storage will be in containers they provide.

F. Contractors are not allowed to use any materials or equipment belonging to the District, including, but not limited to, ladders, carts, brooms, garbage cans, etc. Use of a District owned ladder will result in the worker being permanently removed from the site.

G. Contractors are responsible for their own clean up. Rooms are to be left as clean as found. If the District has to arrange for cleaning, the contractors will be back charged. During the summer, contractors can work as many hours as desired.

H. Work hours:

   1. 7:00 AM - 5:00 PM

J. Utility Outages and Shutdown:
   1. Limit disruption of utility services to hours the building is unoccupied.

2. Do not disrupt or shut down life safety systems, including but not limited to fire sprinklers and fire alarm system, without 7 days' notice to Owner and authorities having jurisdiction.
3. Prevent accidental disruption of utility services to other facilities.

1.06 WORK SEQUENCE

A. Coordinate construction schedule and operations with Engineer and Construction Manager/Owners Representative.

1.07 SPECIFICATION SECTIONS APPLICABLE TO ALL CONTRACTS

A. Unless otherwise noted, all provisions of the sections listed below apply to all contracts. Specific items of work listed under individual contract descriptions constitute exceptions.

B. Section 01 2000 - Price and Payment Procedures.

C. Section 01 2100 - Allowances.

D. Section 01 3000 - Administrative Requirements.

E. Section 01 4000 - Quality Requirements.

F. Section 01 4216 - Definitions.

G. Section 01 4219 - Reference Standards.

H. Section 01 5000 - Temporary Facilities and Controls.

I. Section 01 6000 - Product Requirements.

J. Section 01 7000 - Execution and Closeout Requirements.

K. Section 01 7800 - Closeout Submittals.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 22 1005
PLUMBING PIPING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Sanitary waste piping, buried beyond 5 feet (1500 mm) of building.

B. Sanitary waste piping, buried within 5 feet (1500 mm) of building.

C. Sanitary waste piping, above grade.

D. Domestic water piping, buried beyond 5 feet (1500 mm) of building.

E. Domestic water piping, buried within 5 feet (1500 mm) of building.

F. Domestic water piping, above grade.

1.02 RELATED REQUIREMENTS

A. Section 22 0719 - Plumbing Piping Insulation.

1.03 REFERENCE STANDARDS

A. ASME B16.18 - Cast Copper Alloy Solder Joint Pressure Fittings; 2018.

B. ASME B16.22 - Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings; 2018.

C. ASME B31.9 - Building Services Piping; 2020.

D. ASTM A74 - Standard Specification for Cast Iron Soil Pipe and Fittings; 2021.

E. ASTM B32 - Standard Specification for Solder Metal; 2020.

F. ASTM B88 - Standard Specification for Seamless Copper Water Tube; 2020.

G. ASTM B88M - Standard Specification for Seamless Copper Water Tube (Metric); 2020.

H. ASTM B813 - Standard Specification for Liquid and Paste Fluxes for Soldering of Copper and Copper Alloy Tube; 2016.

I. ASTM B828 - Standard Practice for Making Capillary Joints by Soldering of Copper and Copper Alloy Tube and Fittings; 2016.

J. ASTM C564 - Standard Specification for Rubber Gaskets for Cast Iron Soil Pipe and Fittings; 2020a.

K. ASTM D2564 - Standard Specification for Solvent Cements for Poly(Vinyl Chloride) (PVC) Plastic Piping Systems; 2020.

L. ASTM D2729 - Standard Specification for Poly(Vinyl Chloride) (PVC) Sewer Pipe and Fittings; 2017.

M. ASTM D2855 - Standard Practice for the Two-Step (Primer & Solvent Cement) Method of Joining Poly (Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Pipe and Piping Components with Tapered Sockets; 2020.

N. ASTM D3034 - Standard Specification for Type PSM Poly(Vinyl Chloride) (PVC) Sewer Pipe and Fittings; 2016.

O. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2020.

P. ASTM F477 - Standard Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe; 2014 (Reapproved 2021).

Q. AWWA C110/A21.10 - Ductile-Iron and Gray-Iron Fittings; 2012.

R. AWWA C111/A21.11 - Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings; 2017.

S. AWWA C151/A21.51 - Ductile-Iron Pipe, Centrifugally Cast; 2017, with Errata (2018).

T. CISPI 301 - Standard Specification for Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste and Vent Piping Applications; 2017 (Revised 2018).

U. CISPI 310 - Specification for Coupling for Use in Connection with Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications; 2012 (Revised 2018).

V. ICC-ES AC193 - Acceptance Criteria for Mechanical Anchors in Concrete Elements; 2015.

W. MSS SP-58 - Pipe Hangers and Supports - Materials, Design, Manufacture, Selection, Application, and Installation; 2018.

X. NSF 61 - Drinking Water System Components - Health Effects; 2020.

Y. NSF 372 - Drinking Water System Components - Lead Content; 2020.

1.04 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements for submittal procedures.

B. Product Data: Provide data on pipe materials, pipe fittings, valves, and accessories. Provide manufacturers catalog information. Indicate valve data and ratings.

1.05 QUALITY ASSURANCE

A. Perform work in accordance with applicable codes.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

A. Potable Water Supply Systems: Provide piping, pipe fittings, and solder and flux (if used), that comply with NSF 61 and NSF 372 for maximum lead content; label pipe and fittings.

2.02 SANITARY WASTE PIPING, BURIED BEYOND 5 FEET (1500 MM) OF BUILDING

A. Cast Iron Pipe: ASTM A74 extra heavy weight.
   1. Fittings: Cast iron.
   2. Joint Seals: ASTM C564 neoprene gaskets, or lead and oakum.

B. PVC Pipe: ASTM D3034, DR-35.
   1. Fittings: PVC.
   2. Joints: Push-on, using ASTM F477 elastomeric gaskets.

2.03 SANITARY WASTE PIPING, BURIED WITHIN 5 FEET (1500 MM) OF BUILDING

A. Cast Iron Pipe: ASTM A74 extra heavy weight.
   1. Fittings: Cast iron.
   2. Joints: Hub-and-spigot, CISPI HSN compression type with ASTM C564 neoprene gaskets or lead and oakum.

B. Cast Iron Pipe: CISPI 301, hubless.
   1. Fittings: Cast iron.
   2. Joints: CISPI 310, neoprene gasket and stainless steel clamp and shield assemblies.

2.04 SANITARY WASTE PIPING, ABOVE GRADE

A. Cast Iron Pipe: ASTM A74, service weight.
   1. Fittings: Cast iron.
   2. Joint Seals: ASTM C564 neoprene gaskets, or lead and oakum.

B. Cast Iron Pipe: CISPI 301, hubless, service weight.
   1. Fittings: Cast iron.
   2. Joints: CISPI 310, neoprene gaskets and stainless steel clamp-and-shield assemblies.

C. PVC Pipe: ASTM D2729.
   1. Fittings: PVC.
   2. Joints: Solvent welded, with ASTM D2564 solvent cement.

2.05 DOMESTIC WATER PIPING, BURIED BEYOND 5 FEET (1500 MM) OF BUILDING

A. Ductile Iron Pipe: AWWA C151/A21.51.
   1. Fittings: AWWA C110/A21.10, ductile or gray iron, standard thickness.
   2. Joints: AWWA C111/A21.11, styrene-butadiene rubber (SBR) or vulcanized SBR gasket with 3/4 inch (19 mm) diameter rods.

2.06 DOMESTIC WATER PIPING, ABOVE GRADE

A. Copper Tube: ASTM B88 (ASTM B88M), Type K (A), Drawn (H).
   1. Fittings: ASME B16.18, cast copper alloy or ASME B16.22, wrought copper and bronze.
   2. Joints: ASTM B32, alloy Sn95 solder.

2.07 PIPE FLANGES, UNIONS, AND COUPLINGS

A. Unions for Pipe Sizes 3 inch (80 mm, DN) and Under:
   1. Copper Tube and Pipe: Class 150 bronze unions with soldered joints.

2.08 PIPE HANGERS AND SUPPORTS

A. Provide hangers and supports that comply with MSS SP-58.
   1. If type of hanger or support for a particular situation is not indicated, select appropriate type using MSS SP-58 recommendations.
   2. Overhead Supports: Individual steel rod hangers attached to structure or to trapeze hangers.
   3. Trapeze Hangers: Welded steel channel frames attached to structure.
   4. Vertical Pipe Support: Steel riser clamp.

B. Plumbing Piping - Drain, Waste, and Vent:
   1. Hangers for Pipe Sizes 1/2 to 1-1/2 inch (15 to 40 mm, DN): Malleable iron, adjustable swivel, split ring.
   2. Hangers for Pipe Sizes 2 inch (50 mm, DN) and Over: Carbon steel, adjustable, clevis.
   3. Wall Support for Pipe Sizes to 3 inch (80 mm, DN): Cast iron hook.
   4. Wall Support for Pipe Sizes 4 inch (100 mm, DN) and Over: Welded steel bracket and wrought steel clamp.

C. Plumbing Piping - Water:
   1. Hangers for Pipe Sizes 1/2 to 1-1/2 inch (15 to 40 mm, DN): Malleable iron, adjustable swivel, split ring.
   2. Hangers for Cold Pipe Sizes 2 inch (50 mm, DN) and Over: Carbon steel, adjustable, clevis.
   3. Hangers for Hot Pipe Sizes 2 to 4 inch (50 to 100 mm, DN): Carbon steel, adjustable, clevis.
   4. Wall Support for Pipe Sizes Up to 3 inch (80 mm, DN): Cast iron hook.
   5. Wall Support for Pipe Sizes 4 inch (100 mm, DN) and Larger: Welded steel bracket and wrought steel clamp.

D. Hanger Fasteners: Attach hangers to structure using appropriate fasteners, as follows:
   1. Concrete Wedge Expansion Anchors: Comply with ICC-ES AC193.
   2. Concrete Screw Type Anchors: Comply with ICC-ES AC193.

PART 3 EXECUTION

3.01 PREPARATION

A. Ream pipe and tube ends. Remove burrs. Bevel plain end ferrous pipe.

B. Remove scale and dirt, on inside and outside, before assembly.

C. Prepare piping connections to equipment with flanges or unions.

3.02 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Copper Pipe and Tube: Make soldered joints in accordance with ASTM B828, using specified solder, and flux meeting ASTM B813; in potable water systems use flux also complying with NSF 61 and NSF 372.

C. PVC Pipe: Make solvent-welded joints in accordance with ASTM D2855.

D. Pipe Hangers and Supports:
   1. Install in accordance with ASME B31.9.

3.03 SERVICE CONNECTIONS

A. Provide new sanitary sewer services. Before commencing work, check invert elevations required for sewer connections, confirm inverts and ensure that these can be properly connected with slope for drainage and cover to avoid freezing.

END OF SECTION

SECTION 23 0000
HVAC SCOPE OF WORK

PART 1 - GENERAL

1.1 STIPULATIONS

A. Drawings and General Provisions of the Contract, including General and Supplementary Conditions and Division 01 Sections, apply to this Section.

1.2 REQUIREMENTS

A. The conditions as defined in Division 23 – Common Work Results for HVAC, shall apply to all Division 23 specifications.

B. This contractor shall carefully read the above-mentioned documents and study the drawings of all trades. He shall be responsible for neglect to read or attend to any paragraph or items contained herein.

1.3 INTENT

A. It is the intent of this specification and accompanying drawings to provide HVAC system, as specified herein and as shown on the contract drawings. The drawings show the general arrangement and extent of the work to be done. Exact location and arrangement of all components shall be determined as the work progresses. Plans are subject to such modification as may be necessary at the time of installation in order to meet construction conditions. Any adjustments shall be made by the HVAC Contractor, without extra charge.

B. The project is to be completed during normal working hours, or per direction of school district.

1.4 WORK INCLUDED

A. These specifications and accompanying drawings are intended to cover the furnishing by this Contractor of all labor, material and equipment of every kind necessary for the complete installation of the various systems and such other material and equipment as hereinafter specified and shall not be limited to the following:

1. Provide new air inlets and outlets and associated accessories.
2. Provide exhaust fans, curbs, accessories, and controls.
3. Provide insulation for ductwork, piping, and equipment.
4. Provide direct digital control system including all controls, components and control wiring.
5. Provide all ductwork and piping systems and accessories.
6. Provide all steel supports, vibration isolators, and hangers for all equipment, ductwork and piping.
7. Provide all fire-stopping for your work.
8. Provide installation of direct digital control system utilizing owner furnished equipment and all additional components, control wiring and other required control equipment necessary for a complete code and operable system compliant with the design intent.
9. Provide startup on all equipment by factory authorized personnel.
10. Provide complete testing and balancing of all air and water systems.
11. Provide make up air system and all associated curbs, controls, and accessories.
12. Provide split system air conditioning systems.
13. Provide refrigerant piping systems with fittings, hangers, specialties and equipment.
14. Provide pipe fittings, valves and specialties for hot water heating piping.

15. Provide dampers, turning vanes, louvers and other ductwork accessories for all airside systems.
16. Provide balancing fittings, air vents, unions, strainers, thermometers, pressure gauges and other hydronic accessories for all waterside piping systems.
17. Provide piping pressure testing.
18. Provide variable frequency drives.
19. Provide air vents, unions, strainers, thermometers and gauges for all piping systems.
20. Provide coil hookup packages with pressure independent control valves for hydronic terminals.
21. Provide fire and smoke dampers where indicated or needed.
22. Setting of sleeves. Provide link seals. Core drilling floors and walls.
23. Provide HVAC Commissioning.

B. The following items of work related to HVAC will be performed by others as follows:

1. The General Contractor shall provide all foundations and pads for equipment, paint all piping in finished areas, provide all base flashing on roof, build in all sleeves, unless otherwise noted.
2. The Plumbing Contractor shall provide floor drains for HVAC equipment. Drainage piping from equipment to drains shall be by the HVAC Contractor.
3. The Electrical Contractor shall do all power wiring for HVAC equipment.

1.5 ADDITIONAL MATERIALS AND INSTALLATION INCLUDED

A. This contractor shall, as part of his base bid, provide the following materials and installations for the complete systems installation.

1. The contractor shall provide one offset for each 20'-0" of run for each piped and ducted service in the building.

B. The contractor shall provide a cost break-down for each of the items listed in paragraph A, above. The cost shall be broken down to indicate material, accessories and labor required for the installation of the items listed above. Upon projected completion, contractor shall submit credit for additional material and installation which is unused.

1.6 WORK AS A SUBCONTRACTOR

A. When the HVAC work is subcontracted, the exact scope of work may be limited or added to at the discretion of the General Contractor/Construction Manager. A subcontractor shall, therefore, verify the extent of his work with the General Contractor/Construction Manager.

1.7 RELATED WORK SPECIFIED ELSEWHERE

The following related work items are included in separate divisions and Sections as follows:

A. General Requirements, Division 01.

B. Site Work – Division 31.

C. Concrete – Division 03.

D. Painting – Division 09.

E. Basic Plumbing Requirements – Division 22.

F. Fire Protection General Requirements – Division 21.

G. Electrical – Division 26.

PART 2 - PRODUCTS

2.1 As specified in the following related sections.

PART 3 - EXECUTION

3.1 All HVAC systems shall be complete and fully operational.

A. It is the intent of the Drawings and Specifications and the contractor responsibility is to provide a complete code compliant workable system ready for the Owner's operation. Any item not specifically shown on the Drawings or called for in the Specifications, but normally required to conform to the intent, are to be considered a part of the Contract.

END OF SECTION

SECTION 31 2200
GRADING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Removal of topsoil.

B. Rough grading the site for site structures.

C. Finish grading.

1.02 RELATED REQUIREMENTS

A. Section 31 2316.13 - Trenching: Trenching and backfilling for utilities.

B. Section 31 2323 - Fill: Filling and compaction.

C. Section 32 9219 - Seeding: Finish ground cover.

D. Section 32 9223 - Sodding: Finish ground cover.

1.03 SUBMITTALS

A. Project Record Documents: Accurately record actual locations of utilities remaining by horizontal dimensions, elevations or inverts, and slope gradients.

PART 2 PRODUCTS

2.01 MATERIALS

A. Topsoil - Soil Type Turf & Sodding: Complying with State of New York, Highway Department standards.

B. Topsoil - Soil Type Turf & Sodding: Topsoil excavated on-site.
   1. Graded.
   2. Free of roots, rocks larger than 1/4 inch (8 mm), subsoil, debris, large weeds and foreign matter.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that survey bench mark and intended elevations for the Work are as indicated.

B. Verify the absence of standing or ponding water.

3.02 PREPARATION

A. Identify required lines, levels, contours, and datum.

B. Stake and flag locations of known utilities.

C. Locate, identify, and protect from damage above- and below-grade utilities to remain.

D. Provide temporary means and methods to remove all standing or ponding water from areas prior to grading.

3.03 ROUGH GRADING

A. Remove topsoil from areas to be further excavated, re-landscaped, or re-graded, without mixing with foreign materials.

B. Do not remove topsoil when wet.

C. Remove subsoil from areas to be further excavated, re-landscaped, or re-graded.

D. Do not remove wet subsoil, unless it is subsequently processed to obtain optimum moisture content.

E. When excavating through roots, perform work by hand and cut roots with sharp axe.

F. Stability: Replace damaged or displaced subsoil to same requirements as for specified fill.

G. Remove and replace soils deemed unsuitable by classification and which are excessively moist due to lack surface water control.

3.04 SOIL REMOVAL

A. Stockpile excavated topsoil on site.

B. Stockpiles: Use areas designated on site; pile depth not to exceed 8 feet (2.5 m); protect from erosion.

3.05 FINISH GRADING

A. Before Finish Grading:
   1. Verify building and trench backfilling have been inspected.
   2. Verify subgrade has been contoured and compacted.

B. Remove debris, roots, branches, stones, in excess of 1/4 inch (8 mm) in size. Remove soil contaminated with petroleum products.

C. In areas where vehicles or equipment have compacted soil, scarify surface to depth of 3 inches (75 mm).

D. Place topsoil to the following compacted thicknesses:
   1. Areas to be Seeded with Grass: 6 inches (150 mm).
   2. Areas to be Sodded: 6 to 8 inches (150 to 200 mm).

E. Fine grade topsoil to eliminate uneven areas and low spots. Maintain profiles and contour of subgrade.

F. Maintain stability of topsoil during inclement weather. Replace topsoil in areas where surface water has eroded thickness below specifications.

3.06 REPAIR AND RESTORATION

A. Existing Facilities, Utilities, and Site Features to Remain: If damaged due to this work, repair or replace to original condition.

3.07 CLEANING

A. Remove unused stockpiled topsoil. Grade stockpile area to prevent standing water.

B. Leave site clean and raked, ready to receive landscaping.

END OF SECTION

SECTION 32 3113
CHAIN LINK FENCES AND GATES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Posts, rails, and frames.

B. Wire fabric.

C. Concrete.

D. Manual gates with related hardware.

E. Accessories.

1.02 REFERENCE STANDARDS

A. ASTM A121 - Standard Specification for Metallic-Coated Carbon Steel Barbed Wire; 2013 (Reapproved 2017).

B. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2017.

C. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2016a.

D. ASTM A392 - Standard Specification for Zinc-Coated Steel Chain-Link Fence Fabric; 2011a (Reapproved 2017).

E. ASTM A428/A428M - Standard Test Method for Weight (Mass) of Coating on Aluminum-Coated Iron or Steel Articles; 2021.

F. ASTM A491 - Standard Specification for Aluminum-Coated Steel Chain-Link Fence Fabric; 2011 (Reapproved 2017).

G. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2020.

H. ASTM A1011/A1011M - Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength; 2018a.

I. ASTM C94/C94M - Standard Specification for Ready-Mixed Concrete; 2021a.

J. ASTM F567 - Standard Practice for Installation of Chain-Link Fence; 2014a.

K. CLFMI CLF-FIG0111 - Field Inspection Guide; 2014.

L. CLFMI CLF-SFR0111 - Security Fencing Recommendations; 2014.

M. CLFMI WLG 2445 - Wind Load Guide for the Selection of Line Post and Line Post Spacing; 2018.

N. FS RR-F-191/1D - Fencing, Wire and Post Metal (Chain-Link Fence Fabric); 1990.

1.03 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

B. Product Data: Provide data on fabric, posts, accessories, fittings and hardware.

C. Design Calculations: For high wind load areas, provide calculations for fence fabric and accessory selection as well as line post spacing and foundation details. See CLFMI WLG 2445 for line post and spacing guidance.

D. Shop Drawings: Indicate plan layout, spacing of components, post foundation dimensions, hardware anchorage, and schedule of components. See CLFMI CLF-SFR0111 for planning and design recommendations.

1.04 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.

B. Fence Installer: Company with demonstrated successful experience installing similar projects and products, with not less than five years of documented experience.

1.05 WARRANTY

A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.

B. Correct defective Work within a five year period after Date of Substantial Completion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Chain Link Fences and Gates:
   1. Master-Halco, Inc: www.masterhalco.com/#sle.
   2. Merchants Metals: www.merchantsmetals.com/#sle.
   3. or approved equal.

2.02 COMPONENTS

A. Line Posts: 1.9 inch (48 mm) diameter.

B. Corner and Terminal Posts: 2.38 inch (60 mm) diameter.

C. Curved Corner and Terminal Posts: 2.38 inch (60 mm) diameter formed with a 55 degree angle in the direction of the climber.

D. Gate Posts: 3-1/2 inch (89 mm) diameter.

E. Curved Gate Posts: 3-1/2 inch (89 mm) diameter formed with a 55 degree angle in the direction of the climber.

F. Top and Brace Rail: 1.66 inch (42 mm) diameter, plain end, sleeve coupled.

G. Bottom Rail: 1.66 inch (42 mm) diameter, plain end, sleeve coupled.

H. Gate Frame: 1.66 inch (42 mm) diameter for welded fabrication.

I. Fabric: 2 inch (51 mm) diamond mesh interwoven wire, 6 gauge, 0.1920 inch (4.9 mm) thick, top selvage knuckle end closed, bottom selvage twisted tight.

J. Tension Wire: 6 gauge, 0.1920 inch (4.9 mm) thick steel, single strand.

K. Tie Wire: Aluminum alloy steel wire.

2.03 MATERIALS

A. Posts, Rails, and Frames:
   1. Line Posts: Type I round in accordance with FS RR-F-191/1D.
   2. Terminal, Corner, Rail, Brace, and Gate Posts: Type I round in accordance with FS RR-F-191/1D.

2.04 MANUAL GATES AND RELATED HARDWARE

A. Hardware for Single Swinging Gates: 180 degree hinges, 2 for gates up to 60 inches (1,525 mm) high, 3 for taller gates; fork latch with gravity drop and padlock hasp; keeper to hold gate in fully open position.

B. Hardware for Double Swinging Gates: 180 degree hinges, 2 for gates up to 60 inches (1,525 mm) high, 3 for taller gates; drop bolt on inactive leaf engaging socket stop set in concrete, active leaf latched to inactive leaf preventing raising of drop bolt, padlock hasp; keepers to hold gate in fully open position.

2.05 LIGHT-DUTY ARCHITECTURAL HARDWARE

A. Mechanical Latches: Steel latch, with mounting bracket for a nominal 1-5/8 inches (41 mm) diameter pipe post frame.
   1. Single-Point Latches for Two-Leaf Gates: Pivoting double latch and strike assembly.
   2. Finish: Galvanized.

2.06 ACCESSORIES

A. Caps: Molded rigid vinyl; sized to post diameter, set screw retainer.

B. Fittings: Sleeves, bands, clips, rail ends, tension bars, fasteners and fittings; steel.

C. Extension Arms: Molded plastic, to accommodate 3 strands of barbed wire, single arm, vertical.

2.07 FINISHES

A. Components and Fabric: Vinyl coated over coating of 1.8 ounces per square foot galvanizing (over coating of 550 g/sq m galvanizing).

B. Hardware: Hot-dip galvanized to weight required by ASTM A153/A153M.

C. Accessories: Same finish as framing.

D. Color(s): To be selected by Architect from manufacturer's standard range.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verification of Conditions: Verify that areas are clear of obstructions or debris.

3.02 PREPARATION

A. Removal: Obstructions or debris.

3.03 INSTALLATION

A. Install framework, fabric, accessories and gates in accordance with ASTM F567.

B. Place fabric on outside of posts and rails.

C. Set intermediate posts plumb, in concrete footings with top of footing 2 inches above finish grade. Slope top of concrete for water runoff.

D. Line Post Footing Depth Below Finish Grade: ASTM F567.

E. Corner, Gate and Terminal Post Footing Depth Below Finish Grade: ASTM F567.

F. Brace each gate and corner post to adjacent line post with horizontal center brace rail. Install brace rail one bay from end and gate posts.

G. Provide top rail through line post tops and splice with 6 inch (150 mm) long rail sleeves.

H. Install a 7 gauge, 0.1770 inch (4.5 mm) coil spring wire in place of top rail.

I. Install center brace rail on corner gate leaves.

3.04 TOLERANCES

A. Maximum Variation From Plumb: 1/4 inch (6 mm).

B. Maximum Offset From True Position: 1 inch (25 mm).

C. Do not infringe on adjacent property lines.

3.05 FIELD QUALITY CONTROL

A. See Section 01 4000 - Quality Requirements, for additional requirements.

B. Layout: Verify that fence installation markings are accurate to design, paying attention to gate locations, underground utilities, and property lines.

C. Post Settings: Randomly inspect three locations against design for:
   1. Hole diameter.
   2. Hole depth.
   3. Hole spacing.

D. Fence Height: Randomly measure fence height at three locations or at areas that appear out of compliance with design.

E. Gates: Inspect for level, plumb, and alignment.

F. Workmanship: Verify neat installation free of defects. See CLFMI CLF-FIG0111 for field inspection guidance.

3.06 CLEANING

A. Clean jobsite of excess materials; scatter excess material from post hole excavations uniformly away from posts. Remove excess material if required.

B. Clean fence with mild household detergent and clean water rinse well.

3.07 CLOSEOUT ACTIVITIES

A. See Section 01 7800 - Closeout Submittals, for closeout submittals.

B. Demonstration: Demonstrate operation of system to Owner's personnel.
   1. Use operation and maintenance data as reference during demonstration.
   2. Briefly describe function, operation, and maintenance of each component.

END OF SECTION

SECTION 32 8423

UNDERGROUND SPRINKLERS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Pipe and fittings, valves, sprinkler heads, emitters, bubblers, and accessories.

B. Control system.

1.02 RELATED REQUIREMENTS

A. Section 26 0519 - Low-Voltage Electrical Power Conductors and Cables.

1.03 REFERENCE STANDARDS

A. ASTM B32 - Standard Specification for Solder Metal; 2020.

B. ASTM B42 - Standard Specification for Seamless Copper Pipe, Standard Sizes; 2020.

C. ASTM B88 - Standard Specification for Seamless Copper Water Tube; 2020.

D. ASTM D2235 - Standard Specification for Solvent Cement for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe and Fittings; 2004 (Reapproved 2016).

E. ASTM D2241 - Standard Specification for Poly (Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR Series); 2020.

F. ASTM D2564 - Standard Specification for Solvent Cements for Poly(Vinyl Chloride) (PVC) Plastic Piping Systems; 2020.

G. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum); 2018.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordination: Coordinate the work with site backfilling, landscape grading and delivery of plant life.

B. Preinstallation Meeting: Convene one week prior to commencing work of this Section.

1.05 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

B. Product Data: Provide component and control system and wiring diagrams.

C. Shop Drawings: Indicate piping layout to water source, location of sleeves under pavement, location and coverage of sprinkler heads, components, plant and landscaping features, site structures, schedule of fittings to be used.

D. Samples: Provide one outlet of each type, with housing. Accepted samples may be used in the Work.

E. Certificate: Certify that products of this section approved by authority having jurisdiction.

F. Operation and Maintenance Data:
   1. Provide instructions for operation and maintenance of system and controls, seasonal activation and shutdown, and manufacturer's parts catalog.
   2. Provide schedule indicating length of time each valve is required to be open to provide a determined amount of water.

G. Record Documents: Record actual locations of all concealed components piping system.

H. Maintenance Materials: Provide the following for Owner's use in maintenance of project.
   1. See Section 01 6000 - Product Requirements, for additional provisions.
   2. Extra Sprinkler Heads: One of each type and size.
   3. Extra Valve Keys for Manual Valves: One.
   4. Extra Valve Box Keys: One.
   5. Extra Valve Marker Keys: One.
   6. Wrenches: One for each type head core and for removing and installing each type head.

1.06 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.

B. Installer Qualifications: Company specializing in performing the work of this section with minimum 5 years of experience.

PART 2 PRODUCTS

2.01 REGULATORY REQUIREMENTS

A. Comply with applicable code for piping and component requirements.

B. Provide certificate of compliance from authority having jurisdiction indicating approval of products in system.

2.02 IRRIGATION SYSTEM

A. Manually controlled underground irrigation system, with low point self drain.

B. Manufacturers:
   1. Rain Bird Sales, Inc: www.rainbird.com/#sle.
   2. Toro Company: www.toro.com/#sle.
   3. Weathermatic: www.weathermatic.com/#sle.
   4. Hunter.
   5. Substitutions: See Section 01 6000 - Product Requirements.

2.03 PIPE MATERIALS

A. PVC Pipe: ASTM D2241; 200 psi (1.38 MPa) pressure rated upstream from controls, 160 psi (1.10 MPa) downstream; solvent welded sockets.

B. Fittings: Type and style of connection to match pipe.

C. Pipe Risers at Valves: 160 psi (1.10 MPa) PVC pipe.

D. Solvent Cement: ASTM D2564 for PVC pipe and fittings.

E. Sleeve Material: PVC.

2.04 OUTLETS

A. Manufacturers:
   1. Substitutions: See Section 01 6000 - Product Requirements.

B. Rotary Type Sprinkler Head: Fixed type with screens; fully adjustable for flow and pressure; size as indicated; with letter or symbol designating degree of arc and arrow indicating center of spray pattern.

C. Spray Type Sprinkler Head: Fixed surface head.

D. Emitter: Adjustable outlet, non-clogging, with two trickle tubes.

E. Bubbler: Adjustable outlet.

F. Quick Coupler.

2.05 VALVES

A. Manufacturers:
   1. Hunter.
   2. or approved equal.
   3. Substitutions: See Section 01 6000 - Product Requirements.

B. Gate Valves: pvc construction non-rising stem.

C. Backflow Preventers: Iron body construction, double check valve type.

D. Valve Box and Cover.

E. Drain Valve.

2.06 CONTROLS

A. Manufacturers:
   1. Hunter.
   2. or approved equal.
   3. Substitutions: See Section 01 6000 - Product Requirements.

B. Controller: Automatic controller, microprocessor solid state control with visible readout display, temporary override feature to bypass cycle for inclement weather, timer for a 4 station system, programmable for 7 days in quarter hour increments, with automatic start and shutdown.

C. Controller Housing: NEMA 250 Type 3; weatherproof, watertight, with lockable access door.

D. Valves: Hydraulic; normally open; hydraulic tubing, including required fittings and accessories.

E. Wire Conductors: Color coded.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify location of existing utilities.

B. Verify that required utilities are available, in proper location, and ready for use.

3.02 PREPARATION

A. Piping layout indicated is diagrammatic only. Route piping to avoid plants, ground cover, and structures.

B. Layout and stake locations of system components.

C. Review layout requirements with other affected work. Coordinate locations of sleeves under paving to accommodate system.

3.03 INSTALLATION

A. Install pipe, valves, controls, and outlets in accordance with manufacturer's instructions.

B. Connect to utilities.

C. Set outlets and box covers at finish grade elevations.

D. Provide for thermal movement of components in system.

E. Use threaded nipples for risers to each outlet.

F. After piping is installed, but before outlets are installed and backfilling commences, open valves and flush system with full head of water.

3.04 FIELD QUALITY CONTROL

A. Field inspection and testing will be performed under provisions of Section 01 4000 - Quality Requirements.

3.05 BACKFILLING

A. Provide 3 inch (75 mm) sand cover over piping.

B. Backfill trench and compact to specified subgrade elevation. Protect piping from displacement.

3.06 SYSTEM STARTUP

A. Prepare and start system in accordance with manufacturer's instructions.

B. Adjust control system to achieve time cycles required.

C. Adjust head types for full water coverage as directed.

3.07 CLOSEOUT ACTIVITIES

A. Instruct Owner's personnel in operation and maintenance of system, including adjusting of sprinkler heads. Use operation and maintenance data as basis for demonstration.

3.08 MAINTENANCE

A. See Section 01 7000 - Execution and Closeout Requirements, for additional requirements relating to maintenance service.

B. Provide one complete spring start-up and a fall shutdown by installer, at no extra cost to Owner.

END OF SECTION

SECTION 32 9223
SODDING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Preparation of subsoil.

B. Placing topsoil.

C. Fertilizing.

D. Sod installation.

E. Maintenance.

1.02 PRICE AND PAYMENT PROCEDURES

A. Topsoil:
   1. Basis of Measurement: By the cubic yard (meter).
   2. Basis of Payment: Includes topsoil, placing topsoil.

B. Sodded Areas:
   1. Basis of Measurement: By the square yard (meter).
   2. Basis of Payment: Includes preparation of subsoil, placing topsoil, sodding, watering and maintenance to specified time limit.

1.03 DEFINITIONS

A. Weeds: Includes Dandelion, Jimsonweed, Quackgrass, Horsetail, Morning Glory, Rush Grass, Mustard, Lambsquarter, Chickweed, Cress, Crabgrass, Canadian Thistle, Nutgrass, Poison Oak, Blackberry, Tansy Ragwort, Bermuda Grass, Johnson Grass, Poison Ivy, Nut Sedge, Nimble Will, Bindweed, Bent Grass, Wild Garlic, Perennial Sorrel, and Brome Grass.

1.04 REFERENCE STANDARDS

A. TPI (SPEC) - Guideline Specifications to Turfgrass Sodding; 2006.

1.05 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

B. Certificate: Certify grass species and location of sod source.

C. Certificate: Certify fertilizer and herbicide mixture approval by authority having jurisdiction.

1.06 QUALITY ASSURANCE

A. Sod Producer: Company specializing in sod production and harvesting with minimum five years' experience, and certified by the State of New York.

B. Installer Qualifications: Company approved by the sod producer.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Deliver sod in rolls. Protect exposed roots from dehydration.

B. Do not deliver more sod than can be laid within 24 hours.

PART 2 PRODUCTS

2.01 REGULATORY REQUIREMENTS

A. Comply with regulatory agencies for fertilizer and herbicide composition.

B. Provide certificate of compliance from authority having jurisdiction indicating approval of fertilizer and herbicide mixture.

2.02 MATERIALS

A. Sod: TPI (SPEC), Certified Turfgrass Sod quality; cultivated grass sod; type indicated below; with strong fibrous root system, free of stones, burned or bare spots; free of weeds, disease and insect pests. Minimum age of 18 months, with root development that will support its own weight without tearing, when suspended vertically by holding the upper two corners.

1. Thickness: "Thin" sod, minimum 1/2 inch (13 mm) and maximum 1 inch (25 mm) topsoil base.
2. Sod should be large rolls at least 60 feet in length and 4 ft wide rolls.
3. Machine cut sod in accordance with TPI (SPEC) Guidelines.

B. Topsoil: Fertile, agricultural soil, typical for locality, capable of sustaining vigorous plant growth, taken from drained site; free of subsoil, clay, or impurities, plants, weeds and roots; pH value of minimum 5.4 and maximum 7.0.

C. Topsoil: Excavated from site and free of weeds.

D. Fertilizer: Professional Starter Fertilizer; recommended for grass, with fifty percent of the elements derived from organic sources; of proportion necessary to eliminate any deficiencies of topsoil, to the following proportions:
1. Nitrogen: 18 percent.
2. Phosphoric Acid: 24 percent.
3. Soluble Potash: 12 percent.

E. Water: Clean, fresh and free of substances or matter that could inhibit vigorous growth of grass.

2.03 ACCESSORIES

A. Wood Pegs: Softwood, sufficient size and length to ensure anchorage of sod on slope.

B. Wire Mesh: Interwoven hexagonal metal wire mesh of 2 inch (50 mm) size.

2.04 SOURCE QUALITY CONTROL

A. Analyze to ascertain percentage of nitrogen, phosphorus, potash, soluble salt content, organic matter content, and pH value.

B. Submit minimum 10 oz (280 g) sample of topsoil proposed. Forward sample to approved testing laboratory in sealed containers to prevent contamination.

C. Testing is not required if recent tests are available for imported topsoil. Submit these test results to the testing laboratory for approval. Indicate, by test results, information necessary to determine suitability.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that prepared soil base is ready to receive the work of this section.

3.02 PREPARATION

A. Prepare subgrade in accordance with Section 31 2200.

B. Place topsoil in accordance with Section 31 2200.

3.03 FERTILIZING

A. Apply fertilizer in accordance with manufacturer's instructions.

B. Apply after smooth raking of topsoil and prior to installation of sod.

C. Apply fertilizer no more than 48 hours before laying sod.

D. Mix thoroughly into upper 2 inches (50 mm) of topsoil.

E. Lightly water to aid the dissipation of fertilizer.

3.04 LAYING SOD

A. Moisten prepared surface immediately prior to laying sod.

B. Lay sod immediately after delivery to site to prevent deterioration. Sod installation on site should be done by a sod installation machine consisting of tracks to not disturb final grade.

C. Lay sod smooth and tight with no open joints visible, and no overlapping; stagger end joints 12 inches (300 mm) minimum. Do not stretch or overlap sod pieces.

D. Where new sod adjoins existing grass areas, align top surfaces.

E. Where sod is placed adjacent to hard surfaces, such as curbs, pavements, etc., place top elevation of sod 1/2 inch (13 mm) below top of hard surface.

F. Water sodded areas immediately after installation. Saturate sod to 4 inches (100 mm) of soil.

G. After sod and soil have dried, roll sodded areas to ensure good bond between sod and soil and to remove minor depressions and irregularities. Roll sodded areas with roller not exceeding 500 lbs (225 kg).

3.05 MAINTENANCE

A. Provide maintenance at no extra cost to Owner; Owner will supply water.

B. Maintain sodded areas immediately after placement until grass is well established and exhibits a vigorous growing condition.

C. Mow grass at regular intervals to maintain at a maximum height of 2-1/2 inches (65 mm). Do not cut more than 1/3 of grass blade at any one mowing.

D. Neatly trim edges and hand clip where necessary.

E. Immediately remove clippings after mowing and trimming.

F. Water to prevent grass and soil from drying out.

G. Roll surface to remove irregularities.

H. Control growth of weeds. Apply herbicides in accordance with manufacturer's instructions. Remedy damage resulting from improper use of herbicides.

I. Immediately replace sod to areas that show deterioration or bare spots.

J. Protect sodded areas with warning signs during maintenance period.

END OF SECTION

PLUMBING ABBREVIATIONS

A/E	ARCHITECT / ENGINEER	IIW	INDIRECT WASTE
AD	AREA DRAIN	IWH	INSTANTANEOUS WATER HEATER
AD	ACCESS DOOR	KW	KILOWATT
ADA	AMERICANS WITH DISABILITIES ACT	LAV	LAVATORY
AFF	ABOVE FINISH FLOOR	M	METER
AFG	ABOVE FINISHED GRADE	MC	MECHANICAL CONTRACTOR
AHJ	AUTHORITY HAVING JURISDICTION	MBH	1000 BTUH
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MH	MANHOLE
AP	ACCESS PANEL	NC	NORMALLY CLOSED
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION & AIR CONDITIONING ENGINEERS	NG	NATURAL GAS
		NIC	NOT IN CONTRACT
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	NOM	NOMINAL
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS	NPW	NON POTABLE WATER
		NTS	NOT TO SCALE
AWWA	AMERICAN WATERWORKS ASSOCIATION	O2	OXYGEN
BFG	BELOW FINISHED GRADE	OD	OUTSIDE DIAMETER
BHP	BREAK HORSEPOWER	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
BOR	BASE OF RISER		
BTU	BRITISH THERMAL UNIT	P	PUMP
BTUH	BRITISH THERMAL UNIT PER HOUR	PC	PLUMBING CONTRACTOR
C	CELSIUS	PD	PUMP DISCHARGE
CA	COMBUSTION AIR	PDI	PLUMBING AND DRAINAGE INSTITUTE
CA	COMPRESSED AIR	PF	PLUMBING FIXTURE
CGA	COMPRESSED GAS ASSOCIATION	PG	PRESSURE GAGE
CI	CAST IRON	PPM	PARTS PER MILLION
CO	CLEANOUT	PRS	PRESSURE REDUCING STATION
CO2	CARBON DIOXIDE	PRV	PRESSURE REDUCING VALVE
COND	CONDENSATE	PSI	POUNDS PER SQUARE INCH
CP	CIRCULATING PUMP	PSIA	POUNDS PER SQUARE INCH ATMOSPHERE
CPVC	CHLORINATED POLYVINYL CHLORIDE	PSIG	POUNDS PER SQUARE INCH GAUGE
CU	COPPER	PVC	POLYVINYL CHLORIDE
CW	COLD WATER (DOMESTIC)	RD	ROOF DRAIN
D	DRAIN	RL	RAIN LEADER
DIA	DIAMETER	RO	REVERSE OSMOSIS WATER
DFU	DRAINAGE FIXTURE UNIT	RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
DN	DOWN		
DPCO	DECK PLATE CLEANOUT	SAN	SANITARY SEWER
DWG	DRAWING	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
DWH	DOMESTIC WATER HEATER		
DWV	DRAIN WASTE VENT	SCFM	STANDARD CUBIC FOOT/MINUTE
EC	ELECTRICAL CONTRACTOR	SCW	SOFTENED COLD WATER
EL	ELEVATION	SP	SUMP PUMP
ET	EXPANSION TANK	SQFT	SQUARE FEET
EWC	ELECTRIC WATER COOLER	SS	STAINLESS STEEL
EXIST	EXISTING	ST	STORM SEWER
F	FAHRENHEIT	T&P	TEMPERATURE & PRESSURE (RELIEF VALVE)
FD	FLOOR DRAIN	TD	TRENCH DRAIN
FU	FIXTURE UNITS	TDH	TOTAL DYNAMIC HEAD
FV	FLUSH VALVE	TEMP	TEMPERATURE/TEMPORARY
G	NATURAL GAS	TMV	THERMOSTATIC MIXING VALVE
GAL	GALLON	TP	TRAP PRIMER
GALV	GALVANIZED	TSTAT	THERMOSTAT
GC	GENERAL CONTRACTOR	TW	TEMPERED WATER
GPH	GALLONS PER HOUR	TYP	TYPICAL
GPM	GALLONS PER MINUTE	UC	UNDERCUT
H&CW	HOT AND COLD WATER	UH	UNIT HEATER
HB	HOSE BIBB	UL	UNDERWRITERS LABORATORY
HC	HEATING & HVAC CONTRACTOR	UPC	UNIFORM PLUMBING CODE
HD	HUB DRAIN	UR	URINAL
HP	HORSEPOWER	V	VENT
HS	HAND SINK	VB	VACUUM BREAKER
HW	HOT WATER (DOMESTIC)	VTR	VENT THROUGH ROOF
INV	INVERT	WC	WATER CLOSET
IC	IRRIGATION CONTRACTOR	WCO	WALL CLEANOUT
		WH	WALL HYDRANT
		WHA	WATER HAMMER ARRESTER
		WSFU	WATER SUPPLY FIXTURE UNIT
		XA	EXHAUST AIR

PLUMBING SYMBOLS

- NEW PIPING AND EQUIPMENT
- EXISTING TO REMAIN PIPING AND EQUIPMENT
- PIPING AND EQUIPMENT FOR REMOVAL
- BALL VALVE
- BALL VALVE (HOSE END & CAP)
- BALANCING VALVE
- CHECK VALVE
- CONTROL VALVE – 2 WAY
- DRAIN VALVE WITH HOSE BIBB
- FLANGED CONNECTION (FL)
- FUSIBLE LINK OIL SHUTOFF VALVE
- FLOW CONTROL VALVE (FCV)
- GATE VALVE
- GLOBE VALVE
- GAS COCK
- LUBRICATED PLUG VALVE
- PRESSURE REDUCING VALVE (PRV)
- RELIEF VALVE
- STRAINER WITH BLOWDOWN
- STRAINER WITH BLOWDOWN
- SOLENOID VALVE
- THREE-WAY CONTROL VALVE
- TRIPLE DUTY GLOBE VALVE
- UNION
- REDUCER OR INCREASER
- BRANCH FROM BOTTOM OF PIPE
- BRANCH FROM TOP OF PIPE
- PIPE ELBOW DN
- PIPE ELBOW UP
- PIPE FLOW ARROW
- BELOW SLAB PIPING
- CW — COLD WATER PIPING
- HW — HOT WATER PIPING
- HWC — HOT WATER RECIRC PIPING
- IW — INDIRECT WASTE PIPING
- SAN — SANITARY PIPING
- D — DRAIN PIPING
- V — VENT PIPING
- G — NATURAL GAS PIPING
- SAN — SANITARY PIPING (BELOW GRADE)
- SLEEVE
- GAUGE WITH BALL VALVE
- AUTOMATIC AIR VENT (AAV)
- MANUAL AIR VENT (MAV)
- THERMOMETER
- BUTTERFLY VALVE
- PIPE CAP
- END OF LINE CLEAN OUT
- HOSE BIBB
- FLOOR DRAIN
- FLOOR DRAIN WITH P-TRAP
- DECK PLATE CLEAN OUT
- GAS OUTLET
- WATER HAMMER ARRESTOR
- WALL HYDRANT (WH)
- VACUUM BREAKER (VB)
- INLINE PUMP
- WATER METER
- SUCTION DIFFUSER
- FLEXIBLE CONNECTOR
- PIPE BREAK
- PIPE FLOW ARROW
- REVISION/KEYED NOTE
- KEYED NOTE
- KEYED NOTE
- KEYED NOTE
- POINT OF NEW CONNECTION
- LIMIT OF REMOVAL
- SAW CUT FLOOR

GENERAL PLUMBING NOTES:

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. IT IS NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, FITTING OR COMPONENT; HOWEVER, CONTRACT DOCUMENTS REQUIRE COMPONENTS AND MATERIALS WHETHER OR NOT INDICATED OR SPECIFICALLY SPECIFIED TO MAKE THE SYSTEMS BEING INSTALLED COMPLETE, CODE COMPLIANT, TESTED AND OPERATIONAL.
2. CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS, DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
3. ALL MATERIALS, EQUIPMENT, METHODS OF INSTALLATION, REMOVALS AND DISPOSAL SHALL BE IN ACCORDANCE WITH THE STANDARDS, REGULATIONS, CODES, ORDINANCES, AND LAWS OF LOCAL, STATE, AND FEDERAL GOVERNMENTS, AND OTHER AUTHORITIES THAT HAVE LAWFUL JURISDICTION.
4. PERFORM WORK, PROVIDE MATERIALS AND EQUIPMENT FOR SYSTEMS SHOWN, SPECIFIED AND DESCRIBED ON DRAWINGS. COMPLETELY COORDINATE ALL TRADES OF THIS CONTRACT AND PROVIDE COMPLETE AND FULLY FUNCTIONAL INSTALLATION. ALL WORK IN THIS SET TO BE COMPLETED UNDER THIS CONTRACT, UNLESS OTHERWISE INDICATED.
5. PROTECT ALL EXISTING AND NEW BUILDING ELEMENTS FROM DAMAGE. CONTRACTOR SHALL RESTORE ALL DAMAGED ELEMENTS TO ORIGINAL OR BETTER CONDITION.
6. WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL PRESENT NEAT, RECTILINEAR APPEARANCE WHEN COMPLETED. MAINTAIN MAXIMUM HEAD ROOM AT ALL TIMES. DO NOT RUN PIPES, DUCTS, AND CONDUIT EXPOSED UNLESS SHOWN AND NOTED TO BE EXPOSED ON DRAWINGS.
7. MATERIALS AND EQUIPMENT SHALL BE NEW AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. MAINTAIN MANUFACTURER'S EQUIPMENT CLEARANCES.
8. CONTRACTOR IS RESPONSIBLE FOR ALL WORK RELATED TO ISOLATING, SHUTTING DOWN, DRAINING, FILLING AND TESTING SYSTEMS TO ALLOW FOR COMPLETION OF WORK. INTERRUPTIONS TO EXISTING SERVICES AND SYSTEMS SHALL BE AS SHORT AS POSSIBLE AND AT A TIME AND DURATION APPROVED BY THE OWNER AND UTILITY AS APPLICABLE. INCLUDE ALL PREMIUM TIME ASSOCIATED WITH INTERRUPTIONS. ALL SYSTEM INTERRUPTIONS SHALL BE SCHEDULED WITH OWNER, UTILITY AND COORDINATED WITH OTHER TRADE WORK.
9. ALL EQUIPMENT PIPING, WIRING, INSULATION ETC. INSTALLED IN HVAC AIR PLENUM SPACES SHALL MEET CODE REQUIREMENTS FOR SMOKE AND COMBUSTIBILITY.
10. SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS, PARTITIONS AND FLOORS WITH UL RATED MATERIALS/METHODS EQUIVALENT TO FIRE RATING OF ASSEMBLY.
11. PROVIDE PROPER ACCESS TO EQUIPMENT THAT REQUIRES INSPECTION, REPLACEMENT OR REPAIR. ACCESS PANELS/DOORS SHALL BE A MINIMUM OF 12"X12", UNLESS OTHERWISE NOTED.
12. DO NOT SUPPORT EQUIPMENT FROM SUSPENDED CEILINGS. ALL SUPPORT SHALL BE FROM BUILDING STRUCTURE OR FROM CEILING SUSPENSION SYSTEM WHICH HAS BEEN REINFORCED. SUPPORTS SHALL BE SELECTED AND INSTALLED TO PROVIDE A VIBRATION FREE INSTALLATION.
13.
14. CLEANING DURING PLUMBING WORK: THE MECHANICAL ROOM AND ROOMS WHERE WORK WILL BE DONE TO MINIMIZE DISTURBANCE IN THE BUILDINGS. WORKERS ARE TO USE PATHWAYS AND FACILITIES AGREED UPON WITH THE DISTRICT DESIGNEE IN WRITING. THE AREA OUTSIDE THE BUILDING WHERE CUTTING, WELDING OR STORAGE IS ALLOWED IS TO BE FENCED AT ALL TIMES. THE CONTRACTOR WILL ON A DAILY BASIS CLEAN THE GROUNDS AND THE BUILDING OF ANY DEBRIS OR GARBAGE GENERATED BY THEIR WORK.
15. EACH CONTRACTOR RESPONSIBLE FOR RETURNING WALLS, CEILINGS AND SURFACES THEY DISTURB THAT ARE NOT SCHEDULED FOR REPLACEMENT BACK TO ORIGINAL CONDITIONS.

COORDINATION NOTE:

1. COORDINATE WITH ALL CONTRACTORS AND DISTRICT.
2. SEE SITE DRAWINGS FOR ADDITIONAL CONTRACTOR WORK AS MARKED.

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Eisenbach & Ruhnke Engineering, P.C.
291 Genesee Street – Utica, NY 13501
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STAMP
STATE OF NEW YORK – JAMES EISENBACH – No. 095835 – LICENSED PROFESSIONAL ENGINEER

WARWICK VALLEY CENTRAL SCHOOL DISTRICT
HIGH SCHOOL RENOVATIONS, FIELD WORK AND EXTERIOR BATHROOM BUILDING
225 WEST STREET EXT, WARWICK, NY 10990

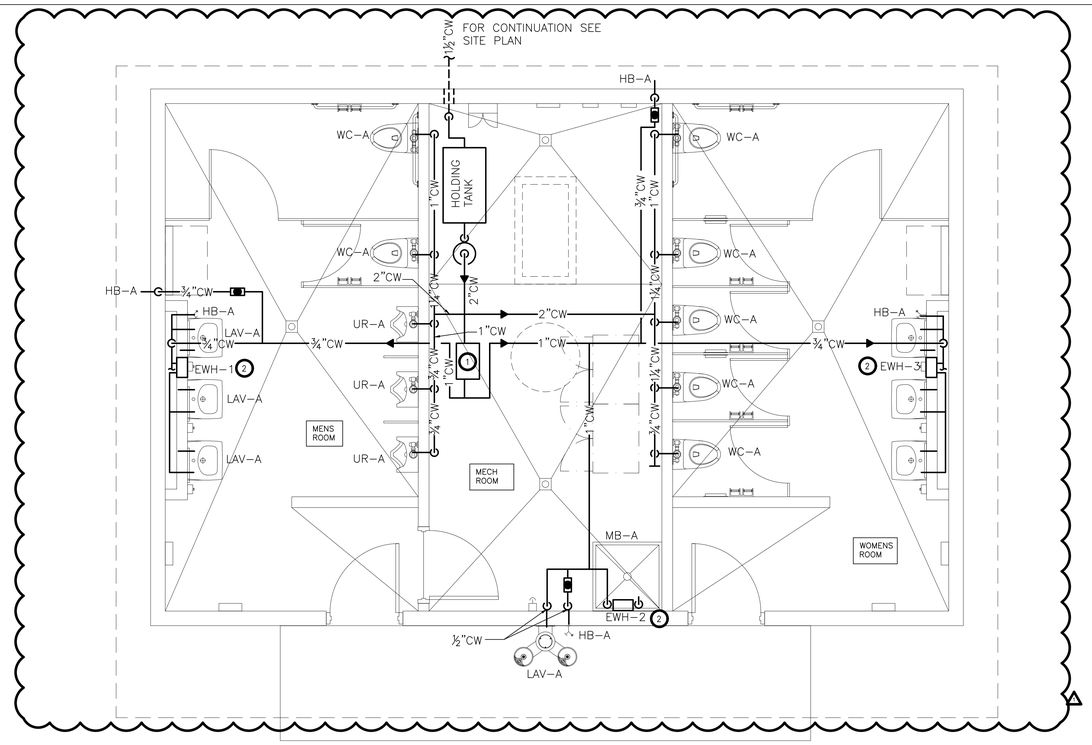
☐BB SED NO. 44-21-01-06-7-041-001 (BB=FIELD BATHROOM BUILDING) 89 SANFORDVILLE ROAD, WARWICK, NY 10990
☐FF SED NO. 44-21-01-06-7-041-001 (FF=WV FOOTBALL FIELD) 89 SANFORDVILLE ROAD, WARWICK, NY 10990
☐HS SED NO. 44-21-01-06-0-001-040 (HS=WV HIGH SCHOOL) 89 SANFORDVILLE ROAD, WARWICK, NY 10990

PROJECT NO.	05-21-04 05-20-06
ADDIENDUM 1	5.3.2022
BID SET	**04.06.2022**
REVISION	DATE
DRAWN BY	
CHECKED BY	
SHEET SIZE	30" X 42"
SCALE	AS NOTED

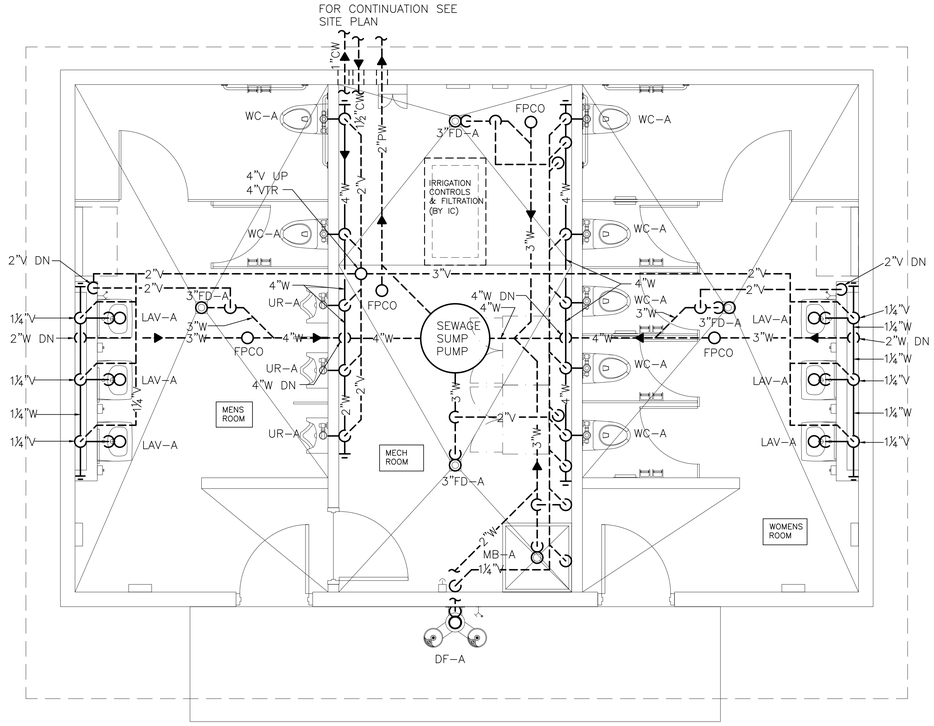
SHEET TITLE
ABBREVIATIONS AND NOTES

SHEET NO.
P-001

FILE PATH -N:\1 – PROJECT DIRECTORIES\1– E & R Projects\05– Warwick Valley CSD\05-21-04 Warwick Federal Grant Project\CAD\Package 2\05-21-04-p001.dwg



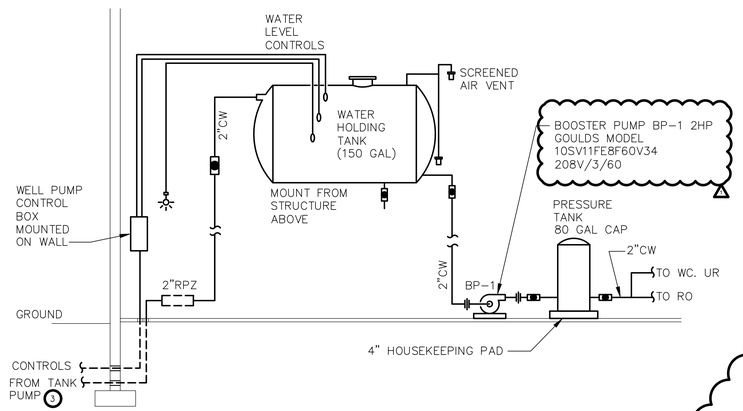
2 BATHROOM FLOOR PLAN HW & CW - NEW WORK
SCALE: 3/8"=1'-0"



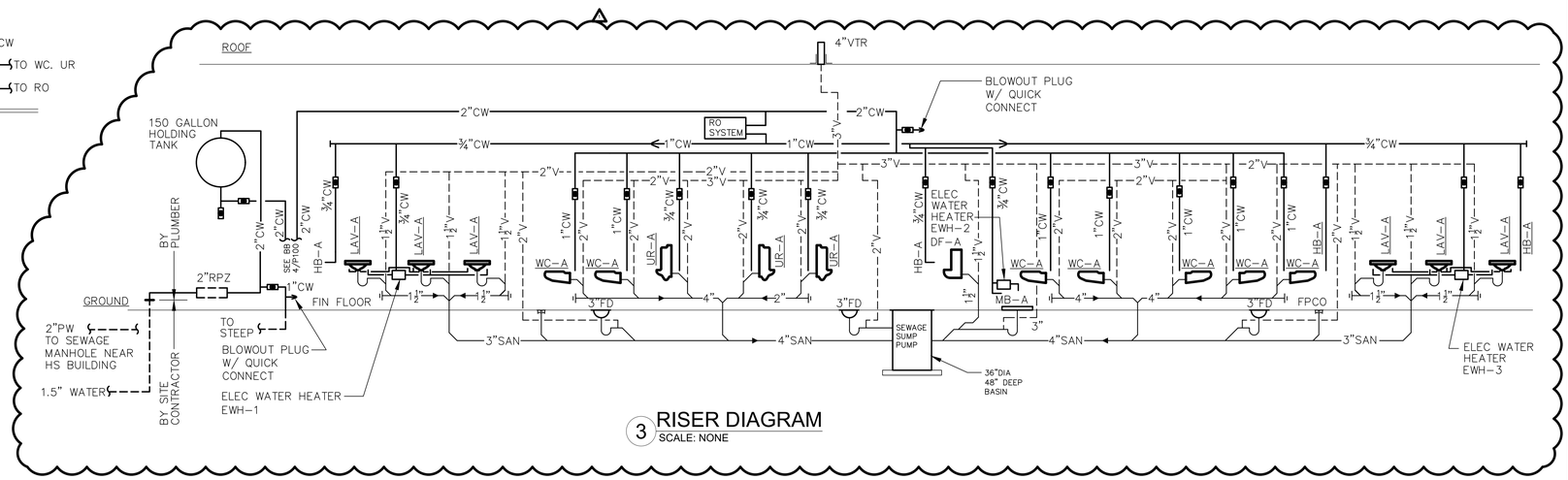
1 BATHROOM FLOOR PLAN SAN & VENT- NEW WORK
SCALE: 3/8"=1'-0"

KEYED NOTES – NEW WORK:

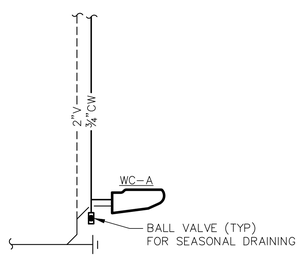
1. PROVIDE REVERSE OSMOSIS SYSTEM NEO–PURE RO–4300–DLX AND ALL APPURTENANCES. TO FEED ALL LAVATORIES AND DRINKING FOUNTAIN. (INSTALL PER MANUFACTURERS RECOMMENDATIONS. (BIDDING PURPOSES ONLY)
2. PROVIDE CHRONOMITE Z–R SERIES MODEL R–58L/277 Z–R1818D AND ALL APPURTENANCES. PROVIDE LOCKABLE DOOR (OR APPROVED EQUAL). INSTALL PER MANUFACTURERS RECOMMENDATIONS.
3. PROVIDE DWP–1 (IN TANK) GRUNDFOS 22SQE07–120, 230V–VARIABLE SPEED 20 GPM @ 80FT/HD 1.5 HP. PROVIDE CONSTANT PRESSURE KIT CU301–MKII & TRANSDUCER. PROVIDE EXPANSION TANK WATTS DETA–20 8 GALLON AND APPURTENANCES.
4. WELL PUMP WP–1 (TBD) THE WELL DRILLER NEEDS TO PROVIDE A CERTIFIED WATER REPORT FOR PROPER SIZING OF THE WELL PUMP AND REVERSE OSMOSIS SYSTEM. PROVIDE A ALLOWANCE OF $20,000 DOLLARS FOR BIDDING PURPOSES ONLY FINAL SIZING BY MECHANICAL ENGINEER.



4 WATER STORAGE TANK/PRESSURE TANK DETAIL
SCALE: NONE



3 RISER DIAGRAM
SCALE: NONE



TYPICAL DRAIN CONNECTION AT ALL PLUMBING FIXTURES
5 SCALE: NONE

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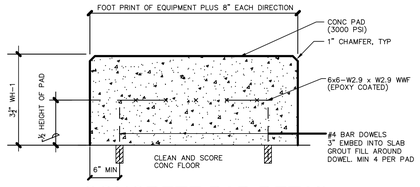
PROJECT NO.	05–21–04 05–20–06
ADDENDUM 1	5.3.2022
BID SET	04.08.2022
REVISION	DATE
DRAWN BY	
CHECKED BY	
SHEET SIZE	30" X 42"
SCALE	AS NOTED

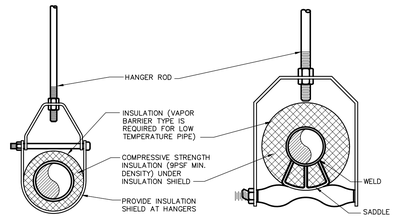
SHEET TITLE
BATHROOM FLOOR PLAN - NEW WORK

SHEET NO.
BB P-100

FILE PATH –N:\V – PROJECT DIRECTORIES\V– E & R Projects\05– Warwick Valley CSD\05–21–04 Warwick Federal Grant Project\CAD\Package 2\05–21–04–BBP100.M100.E100.dwg



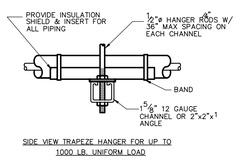
1 CONCRETE PAD DETAIL
SCALE: NONE



ADJUSTABLE CLEVIS HANGER — ADJUSTABLE CLEVIS HANGER W/ ROLLER

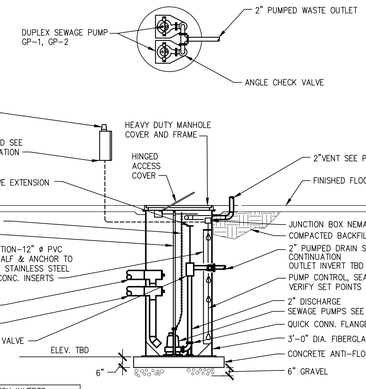
MAXIMUM PIPE/TUBING SUPPORT SPACING								
SIZE IN.	THRU 3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
PIPE FT.	6	6	6	6	6	6	6	6
TUBING FT.	6	6	6	6	6	6	6	6

NOTE:
1. FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.



SIDE VIEW TRAPEZE HANGER FOR UP TO 1000 LB. UNIFORM LOAD

2 PIPE SUPPORT DETAIL
SCALE: NONE



FLOAT SWITCH INVERTS (TO BE VERIFIED BY P.C.)	
SECOND PUMP ON	TBD
ALARM LEVEL	TBD
FIRST PUMP ON	TBD
PUMPS OFF	TBD

NOTES:
1. PREFABRICATED FIBERGLASS BASIN W/ INTEGRAL SS. PIPE RAILS, INLET, DISCHARGE AND CONDUIT TAPS:
2. SINGLE HATCH BASIN COVER: TOPP NO. C36HSS OR EQUAL
3. DUPLEX PUMP CONTROL PANEL: BOULAY FABRICATION INC. NO.: BOU# TI6039 2HP 460/3/60 OR EQUAL
4. PUMP CONTROL AND ALARM FLOATS MECHANICALLY ACTIVATED NORMALLY OPEN/CLOSED (FIELD VERIFY CABLE LENGTH REQUIRED): SJE RHOMBUS "SIGNALMASTER" OR EQUAL.
5. COORDINATE ALL ELEVATIONS AND ACCESSORIES PROVIDED BY OTHERS PRIOR TO INSTALLATION.

7 SEWAGE EJECTOR PUMP DUPLEX PUMPING STATION
SCALE: NONE

INSULATION SCHEDULE

TYPE	EQUIPMENT OR SYSTEM SERVED	INSULATION CLASS (a)			JACKETING CLASS (b)			THICKNESS (IN) NOMINAL PIPE SIZE (IN)				
		INTERIOR CONCEALED	INTERIOR EXPOSED	EXTERIOR	INTERIOR GENERAL	EQUIPMENT ROOMS	EXTERIOR	<1"	1"–<1½"	1½"– <4"	4 "– <8"	≥8 & UP
A	DCW, COOLING COIL CONDENSATE	FE (R-4)	– –	– –	0	– –	– –	0.5	0.5	1.0	1.0	1.0
		– –	FE (R-4)	– –	– –	0	– –	0.5	0.5	1.0	1.0	1.0
B	DHW/ DHWR	FG (R-7)	– –	– –	1	– –	– –	1.5	1.5	2	2	2
		– –	FG (R-7)	– –	– –	1	– –	1.5	1.5	2	2	2
C	IW, SAN, CW EXTERIOR	– –	– –	– –		– –	– –					
		– –	– –	FG (R-4)	– –	– –	2	1.5	1.5	1.5	1.5	1.5

(a) FG – – FIBROUS GLASS; FE – – FLEXIBLE ELASTOMERIC; UR – – URETHANE; CS – – CALCIUM SILICATE; FR – – FIRE RATED
(b) 0 – – NONE; 1 – – ALL SERVICE; 2 – – POLYVINYL CHLORIDE; 3 – – CANVAS; 4 – – POLYVINYL CHLORIDE; (d) BLANKET; (e) RIGID BOARD

ALL INSULATION TO COMPLY WITH 2020 NYS ENERGY CONSERVATION CONSTRUCTION CODE

WATER HAMMER ARRESTORS

NO.	FIXTURE UNIT RATING	SIZE IN INCHES	PDI SYMBOL
WHA–A	1 – 11	1/2"	A
WHA–B	12 – 32	3/4"	B
WHA–C	33–60	1"	C

SIZING DATA BASED ON THE PLUMBING DRAINAGE STANDARD P.D.I. – WH201.

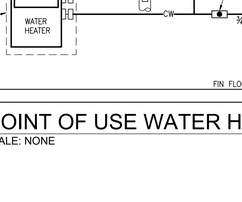
FIXTURE AND EQUIPMENT CONNECTION SCHEDULE

DESIGNATION	DESCRIPTION	COLD WATER	HOT WATER	WASTE OR SANITARY	VENT	REMARKS
WC–A	WATER CLOSET	1"	––	4"	2"	NOTE 1
UR–A	URINAL	3/4"	––	2"	2"	NOTE 2
LAV–A	LAVATORY	½"	1/2"	1–1/4"	1–1/4"	NOTE 3
FD–A	FLOOR DRAIN		––	3"	2"	NOTE 4
FPCO	CLEANOUT		––	4"		NOTE 5
DF–A	DRINKING FOUNTAIN	3/4"	––	1 1/2"	1–1/4"	NOTE 9
MB–A	MOP BASIN	3/4"	3/4"	3"	2"	NOTE 8
HB–A	HOSE BIBB	3/4"	––	––	––	NOTE 10

NOTES:
1. WALL MOUNTED WATER CLOSET AMERICAN STANDARD AFWALL 3351.101 WITH 5901.110 SEAT AND SLOAN FLUSH VALVE ROYAL 111 ESS–1.6–OR–HW
2. WALL MOUNTED URINAL AMERICAN STANDARD WASHBROOK 6590.001 WITH SLOAN FLUSH VALVE ROYAL 186 ESS–1.0–HW
3. WALL HUNG LAVATORY AMERICAN STANDARD 0355.012 W/JR SMITH CARRIER 0700, MCGUIRE 2167–LK–F AND MCGUIRE 8912–F. FAUCET AMERICAN STANDARD 605B–205, PK00.HAC, 605XTMV1070 HARD WIRED AC MULTI AC PROVIDE STAINLESS STEEL FLEXIBLE SUPPLIES, CW,HW BRASSCRAFT S1–A AND SHUT OFF VALES W/ REMOVABLE HANDLES. LAV GUARD BY ARCHITECT
4. FLOOR DRAIN MODEL JR SMITH 2010C–A WITH TRAP SEAL BY PROVENT SYSTEMS OR APPROVED EQUAL.
5. PROVIDE CLEANOUT JR SMITH MODEL 4020 OR APPROVED EQUAL
6. ALL PLUMBING FIXTURES TO BE PROVIDED WITH SHUT–OFF VALVES AS SPECIFIED
7. INSTALL ALL CARRIERS PER MANUFACTURERS RECOMMENDATIONS. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR CARRIER HEIGHTS.
8. PROVIDE MOP BASIN FIAT MSB–3636 WITH FIAT 830–AA. PROVIDE MOP BRACKET 889–CC, VINYL GUARDS E–77–AA AND HOSE BRACKET 832–AA OR APPROVED EQUAL
9. PROVIDE ELKAY MODEL LK4409BF – BLACK OR APPROVED EQUAL
10. PROVIDE JR SMITH HOSE BIBB 5685(H) WITH REMOVABLE HANDLE OR APPROVED EQUAL

PUMP SCHEDULE

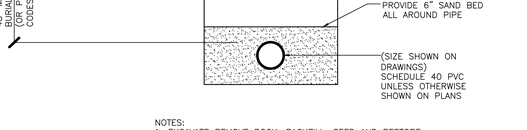
NO.	LOCATION	SERVICE	GPM	HEAD FT WATER	MOTOR WATTS/HP	MOTOR VOLTAGE	MOTOR PHASE	MOTOR MAX. RPM	DESIGN MAKE
GP–1	MECH ROOM	SEWAGE	25	40	1.5	460	60	1750	WEIL 2436
GP–2	MECH ROOM	SEWAGE	25	40	1.5	460	60	1750	WEIL 2436



3 EXTERIOR WALL PIPE PENETRATION DETAIL
SCALE: NONE

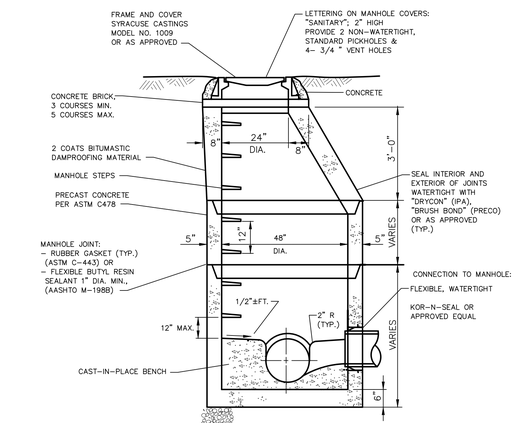
BACKFLOW ASSEMBLY CLEARANCES:
1. ASSEMBLY SHALL BE INSTALLED WITH CENTERLINE OF 30" TO 60" ABOVE FINISHED FLOOR. INSTALLATION AT A GREATER HEIGHT SHALL BE PROVIDED WITH A FIXED PLATFORM.
2. ASSEMBLY SHALL BE INSTALLED WITH 18" MINIMUM CLEARANCE BETWEEN BOTTOM OF RELIEF VALVE AND THE FLOOR.
3. ASSEMBLY SHALL BE INSTALLED WITH 12" MINIMUM CLEARANCE ABOVE ASSEMBLY.
4. ASSEMBLY SHALL BE INSTALLED WITH A MINIMUM OF 30" OF CLEAR SPACE BETWEEN THE FRONT SIDE OF THE DEVICE AND THE NEAREST WALL OR OBSTRUCTION.
5. ASSEMBLY SHALL BE INSTALLED WITH A MINIMUM OF 8" CLEARANCE FROM THE BACK SIDE OF DEVICE TO THE NEAREST WALL OR OBSTRUCTION.
6. ASSEMBLY SHALL BE ADEQUATELY SUPPORTED AND/OR RESTRAINED TO PREVENT LATERAL MOVEMENT. SUPPORTS SHALL BE PLACED IN A MANNER THAT WILL NOT OBSTRUCT THE FUNCTION OF OR THE ACCESS TO THE RELIEF VALVE.

8 BACKFLOW PREVENTER DETAIL
SCALE: NONE

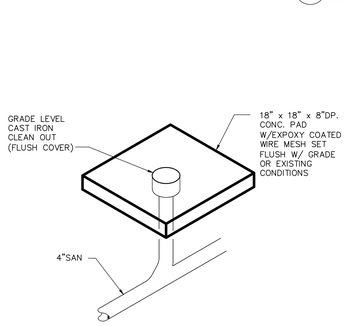


NOTES:
1. EXCAVATE REMOVE ROCK, BACKFILL, SEED AND RESTORE OR PAVE TO ORIGINAL CONDITIONS.

4 TRENCH DETAIL
SCALE: NONE

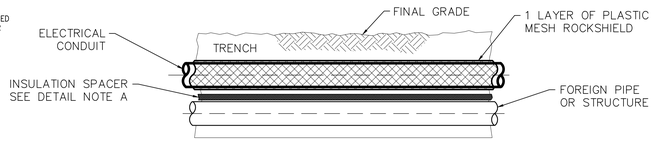


9 SANITARY MANHOLE DETAIL
SCALE: NONE

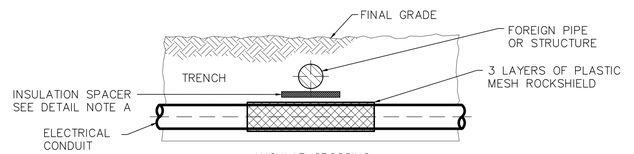


5 GRADE LEVEL CLEANOUT DETAIL
SCALE: NONE

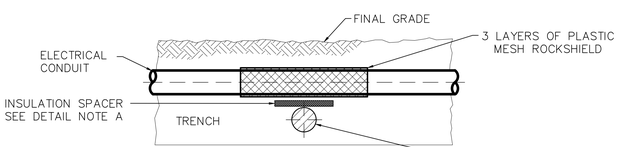
6 POINT OF USE WATER HEATER
SCALE: NONE



PARALLEL INSTALLATION (HORIZONTAL OR VERTICAL ARRANGEMENT)



ANGULAR CROSSING (BELOW FOREIGN PIPE OR STRUCTURE)



ANGULAR CROSSING (ABOVE FOREIGN PIPE OR STRUCTURE)

DETAIL NOTES:
A. A INSULATIONSPACER SHALL BE INSTALLED BETWEEN METALIC WATER/SEWER PIPE TO PREVENT ELECTRICAL CONTACT WITH THE SUBSURFACE STRUCTURE.
B. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

ANGULAR & PARALLEL CROSSING OF SUBSURACE STRUCTURE GAS PIPE PROTECTION BELOW GRADE CLEARANCES
SCALE: NONE

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STAMP
STATE OF NEW YORK — MARK EISENBACH — No. 095875 — LICENSED PROFESSIONAL ENGINEER

WARWICK VALLEY CENTRAL SCHOOL DISTRICT
HIGH SCHOOL RENOVATIONS, FIELD WORK AND EXTERIOR BATHROOM BUILDING
225 WEST STREET EXT, WARWICK, NY 10990

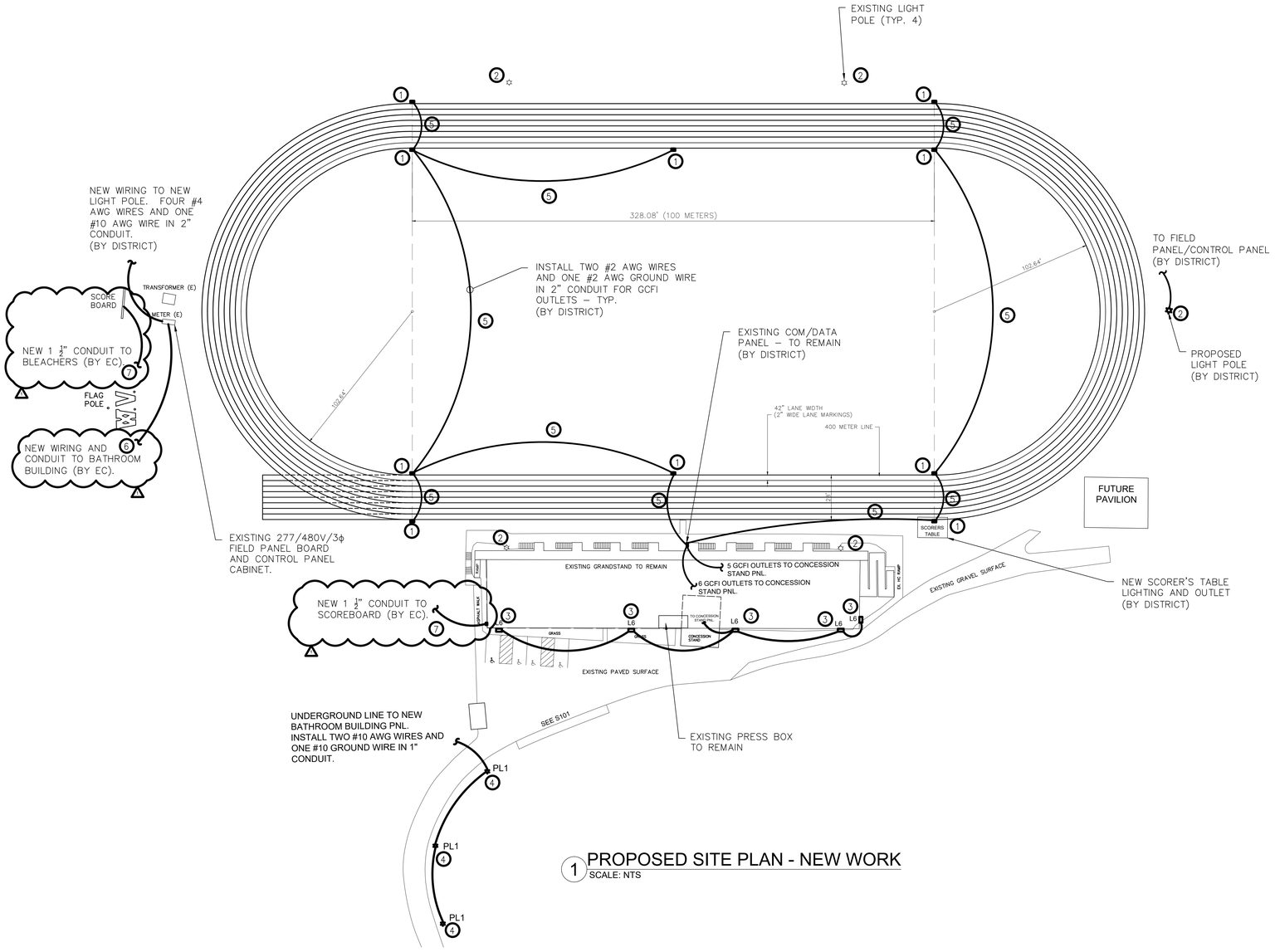
☐BB SED NO. 44–21–01–06–7–041–001 (BB=FIELD BATHROOM BUILDING) 89 SANFORDVILLE ROAD, WARWICK, NY 10990
☐FF SED NO. 44–21–01–06–7–041–001 (FF=WV FOOTBALL FIELD) 89 SANFORDVILLE ROAD, WARWICK, NY 10990
☐HS SED NO. 44–21–01–06–0–001–040 (HS=WV HIGH SCHOOL) 89 SANFORDVILLE ROAD, WARWICK, NY 10990

PROJECT NO.	05–21–04 05–20–06
ADDENDUM 1	5.3.2022
BID SET	04.06.2022
REVISION	DATE
DRAWN BY	
CHECKED BY	
SHEET SIZE	30" X 42"
SCALE	AS NOTED

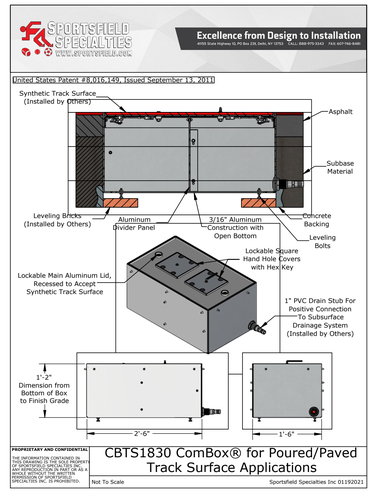
SHEET TITLE
SCHEDULES AND DETAILS

SHEET NO.
P-500

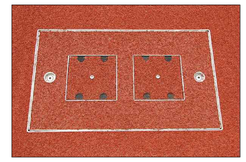
FILE PATH –N:\1 – PROJECT DIRECTORIES\1– E & R Projects\05– Warwick Valley CSD\05–21–04 Warwick Federal Grant Project\CAD\Package 2\05–21–04 p500.dwg



1 PROPOSED SITE PLAN - NEW WORK
SCALE: NTS



2 PULLBOX APPLICATION NEW WORK
SCALE: NTS



3 TRACK SURFACED PULLBOX NEW WORK
SCALE: NTS

KEYED NOTES – NEW WORK:

1. DISTRICT SHALL PROVIDE AND INSTALL NEW SPORTSFIELD SPECIALTIES CBTS1830 COMBOXES (PULLBOX) PER MANUFACTURERS INSTRUCTIONS. DISTRICT SHALL INSTALL ONE GCFI OUTLET INTO EACH PULLBOX (11) AND WIRED BACK TO 120V PANELBOARD LOCATED IN CONCESSION STAND. MAXIMUM OF SIX GCFI OUTLETS PER BRANCH CIRCUIT. DISTRICT SHALL PROVIDE AND INSTALL ALL WIRING, CONDUIT, CIRCUIT BREAKERS AND SUPPLIES TO COMPLETE INSTALLATION OF POWER CIRCUITS. GCFI OUTLETS SHALL BE INSTALLED IN WEATHERPROOF HOUSINGS WITHIN PULLBOXES.
2. DISTRICT SHALL PROVIDE AND INSTALL MUSCO STADIUM LIGHTING ONTO FOUR EXISTING AND ONE NEW LIGHT POLE AS INDICATED. INSTALL STADIUM LIGHTING PER MANUFACTURER INSTRUCTIONS. DISTRICT SHALL PROVIDE MUSCO RECOMMENDED STADIUM LIGHTING CONTROLS, WIRING, STARTERS, CONDUIT AND SUPPLIES NECESSARY TO ENSURE A COMPLETE LIGHTING SYSTEM.
3. DISTRICT SHALL PROVIDE AND INSTALL WALLPACK LIGHTING (L6) AS INDICATED ONTO EXISTING GRANDSTAND FOR PATH LIGHTING. DISTRICT SHALL PROVIDE AND INSTALL LIGHTS, WIRING, CONDUIT, CIRCUIT BREAKER, SUPPLIES AND HARDWARE AS REQUIRED FOR A COMPLETE LIGHT SYSTEM AND CONNECT TO THE EXISTING 120V PANELBOARD LOCATED INSIDE THE CONCESSION STAND. REFER TO LIGHTING FIXTURE SCHEDULE ON DRAWING E–500 FOR SPECIFICATIONS.
4. DISTRICT SHALL PROVIDE AND INSTALL THREE POLE LIGHTS (PL1) ALONG EXISTING PAVEMENT AS INDICATED. DISTRICT SHALL PROVIDE AND INSTALL LIGHT POLES, WIRING, CONDUIT, CIRCUIT BREAKER, SUPPLIES AS REQUIRED TO COMPLETE SYSTEM AND CONNECT TO NEW 277V PANELBOARD TO BE LOCATED IN THE EXTERIOR BATHROOM BUILDING MECHANICAL ROOM. REFER TO LIGHTING FIXTURE SCHEDULE ON DRAWING E–500 FOR SPECIFICATIONS.
5. DISTRICT SHALL PROVIDE AND INSTALL THREE 2" SCHEDULE 80 PVC CONDUIT AS INDICATED TO ALL PULLBOXES. LONG SWEEPS SHALL BE USED TO ENTER/EXIT PULLBOXES, CONDUIT SHALL BE MADE WATER TIGHT AND CAPPED INSIDE PULLBOX WHERE PERMITTED. INSTALL BACKUP PULL ROPES IN CONDUIT FOR USE DURING MEETS. DISTRICT SHALL PROVIDE AND INSTALL COMMUNICATION WIRING (BELDEN 9533 CABLE) LINKING ALL PULLBOXES USING 3 PIN XLR (MALE & FEMALE) AND CONNECT TO THE PRESS BOX AND SCORER'S TABLE. DISTRICT SHALL PROVIDE AND INSTALL CAT 5 ETHERNET (T56EA/B RJ45) NETWORT CABLE TO ALL PULLBOXES.
6. ELECTRICAL CONTRACTOR (EC) SHALL PROVIDE AND INSTALL 2 SETS OF 500 MCM CABLES IN 4" SCHEDULE 80 PVC CONDUITS TO NEW 400A – 277/480V, 3PH, 60HZ PANEL PP–1 IN BATHROOM BUILDING (BB). GENERAL CONTRACTOR (GC) SHALL PROVIDE TRENCHING AND BACKFILL REFER TO DRAWING E–502 FOR TRENCHING AND RELATED DETAILS.
7. EC TO PROVIDE AND INSTALL 1 1/2" SCHEDULE 80 PVC CONDUIT FROM SCOREBOARD TO BLEACHERS. EC TO EXTEND PVC CONDUIT 6" ABOVE GROUND AND CAP WATER TIGHT AT SCOREBOARD. EC SHALL INSTALL 2 PULL ROPES IN CONDUIT FOR FUTURE WIRING BY OTHERS FROM BLEACHERS TO SCOREBOARD. PVC CONDUIT SHALL EXTEND 20" ABOVE GRADE AT BLEACHERS TO A NEW WATERTIGHT JUNCTION BOX ALSO PROVIDED BY EC. TRENCHING AND BACKFILL BY GC, REFER TO DRAWING E–502 FOR DETAILS.

GENERAL NOTES:

1. INSTALL SPORTSFIELD SPECIALTIES CBTS 1830 COMBOXES WITHIN CLOSE PROXIMITY TO TRACK EDGES SUCH THAT TRACK SURFACE COATING CAN BE INSTALLED ON AND 12–16" AROUND PERIMETER OF COMBOX PROVIDING A CONTINUOUS TRACK SURFACE AS PICTURED IN DETAIL 3 OF THIS DRAWING. COMBOXES SHALL BE INSTALLED SUCH THAT THE WHEN SURFACED THE COMBOX SHALL BE LEVEL WITH THE FINISHED TRACK ELEVATION.
2. INSTALL SPORTSFIELD SPECIALTIES CBTS 1830 COMBOXES PER MANUFACTURER INSTRUCTIONS, DETAIL 2 OF THIS DRAWING PROVIDES INSTALLATION DIAGRAM. MANUFACTURER INSTRUCTIONS TO BE PROVIDED AT A LATER DATE.
3. ALL WORK BY DISTRICT OR OTHERS SHALL MEET NFPA (NEC 2020) STANDARDS.
4. ALL WORK BY DISTRICT OR OTHERS SHALL MEET STANDARDS SET FORTH BY THE FOLLOWING:
   - 4.1. NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS (NFHS)
   - 4.2. NATIONAL COLLEGIATE ATHLETIC ASSOCIATION (NCAA)
   - 4.3. INTERNATIONAL ASSOCIATION OF ATHLETICS FEDERATIONS (IAAF)
   - 4.4. AMERICAN SPORTS BUILDERS ASSOCIATION (ASBA)
   - 4.5. MANUFACTURERS DATA AND RECOMMENDED INSTALLATIONS REQUIREMENTS
   - 4.6. WHERE THESE STANDARDS CONFLICT WITH OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN.

ENGINEER:
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STAMP
STATE OF NEW YORK JAMES EISENBACH 095414 LICENSED PROFESSIONAL ENGINEER

WARWICK VALLEY CENTRAL SCHOOL DISTRICT
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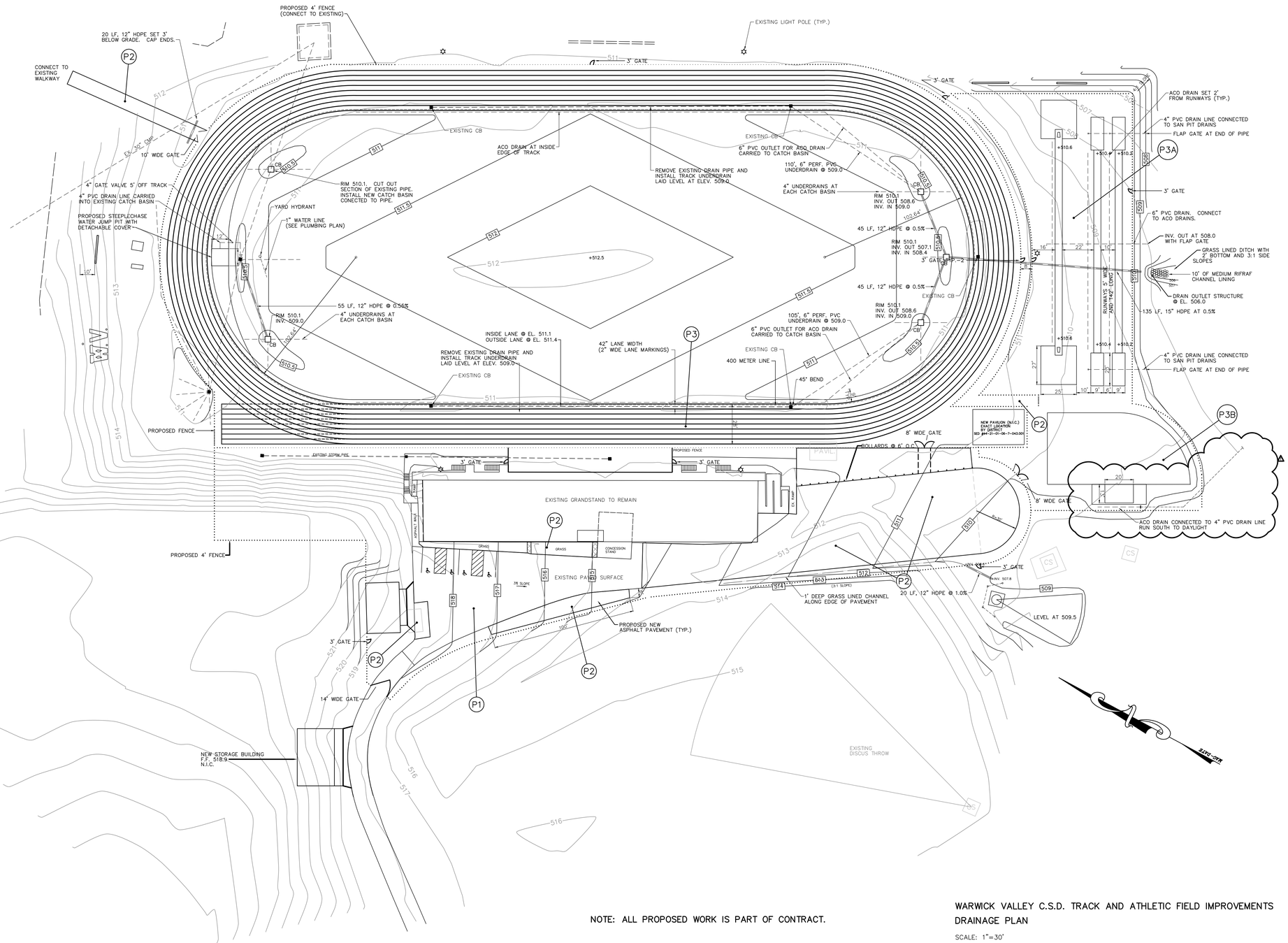
■HS SED NO. 44-21-01-06-0-001-040 (HS–WV HIGH SCHOOL) 89 SANFORDVILLE ROAD, WARWICK, NY 10990

PROJECT NO.	05–21–04 05–20–06
ADDENDUM 1	5.3.2022
BID SET	**04.08.2022**
REVISION	DATE
DRAWN BY	
CHECKED BY	
SHEET SIZE	30" X 42"
SCALE	AS NOTED

SHEET TITLE
PARTIAL SITE PLAN - NEW WORK

SHEET NO.
FF
E–103

FILE PATH –N:\1 – PROJECT DIRECTORIES\1– E & R Projects\05– Warwick Valley CSD\05–21–04 Warwick Federal Grant Project\CAD\Package 2\05–21–06FF–e103.dwg



NOTE: ALL PROPOSED WORK IS PART OF CONTRACT.

WARWICK VALLEY C.S.D. TRACK AND ATHLETIC FIELD IMPROVEMENTS
DRAINAGE PLAN

SCALE: 1"=30'

ENGINEER:
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WARWICK VALLEY CENTRAL SCHOOL DISTRICT
HIGH SCHOOL RENOVATIONS, FIELD WORK AND EXTERIOR BATHROOM BUILDING
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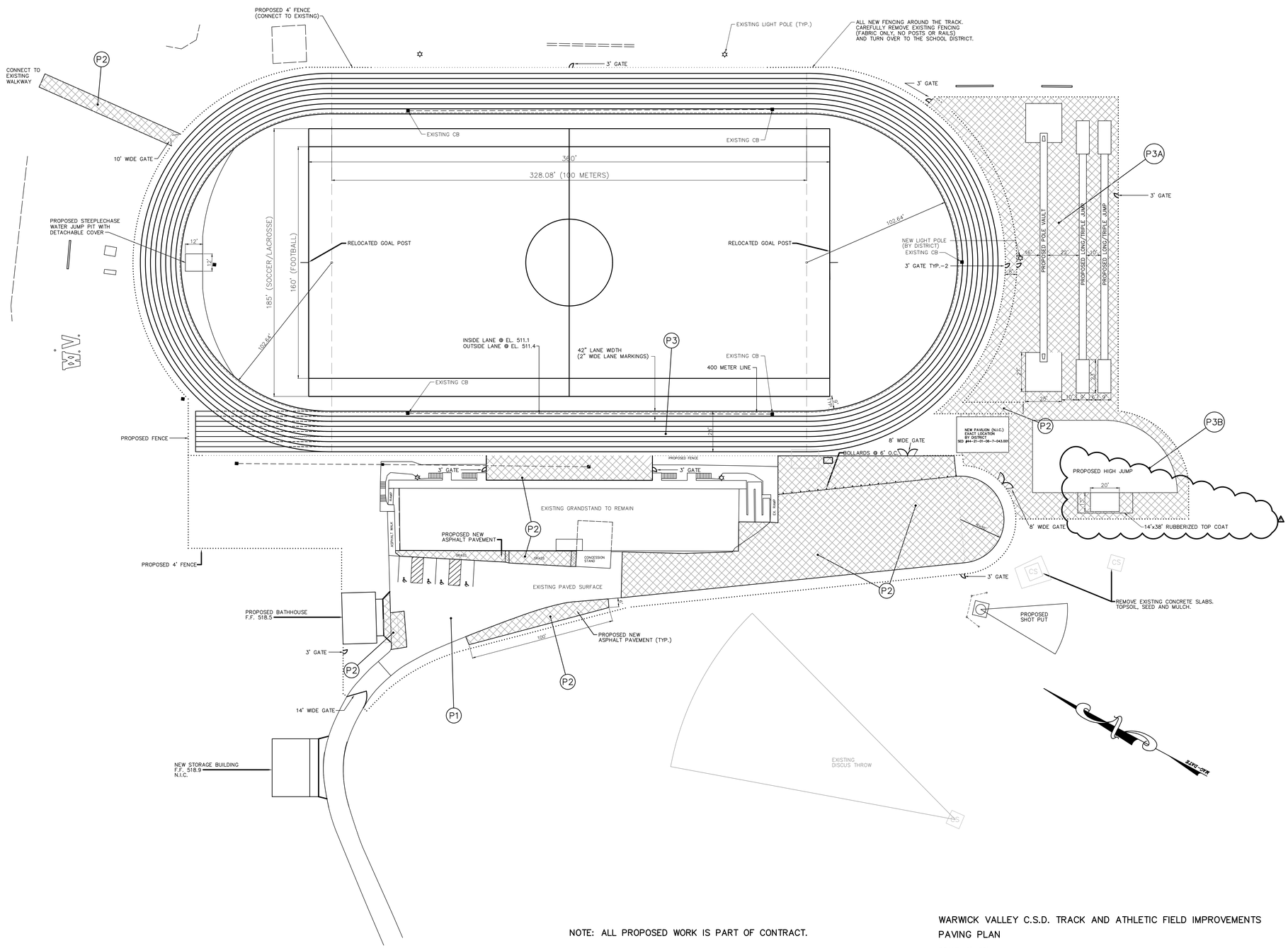
PROJECT NO.	05-21-04 05-20-06
ADDENDUM 1	05.03.2022
BID SET	04.08.2022
REVISION	DATE
DRAWN BY	
CHECKED BY	
SHEET SIZE	30" X 42"
SCALE	AS NOTED

SHEET TITLE
DRAINAGE PLAN

SHEET NO.
S-122

FILE PATH -N:\1 – PROJECT DIRECTORIES\1– E & R Projects\05– Warwick Valley CSD\05-21-04 Warwick Federal Grant Project\CAD\Package 2\SITE\05-21-06.FF-S-110 – S-505.dwg



NOTE: ALL PROPOSED WORK IS PART OF CONTRACT.

WARWICK VALLEY C.S.D. TRACK AND ATHLETIC FIELD IMPROVEMENTS
PAVING PLAN

SCALE: 1"=30'

ENGINEER:
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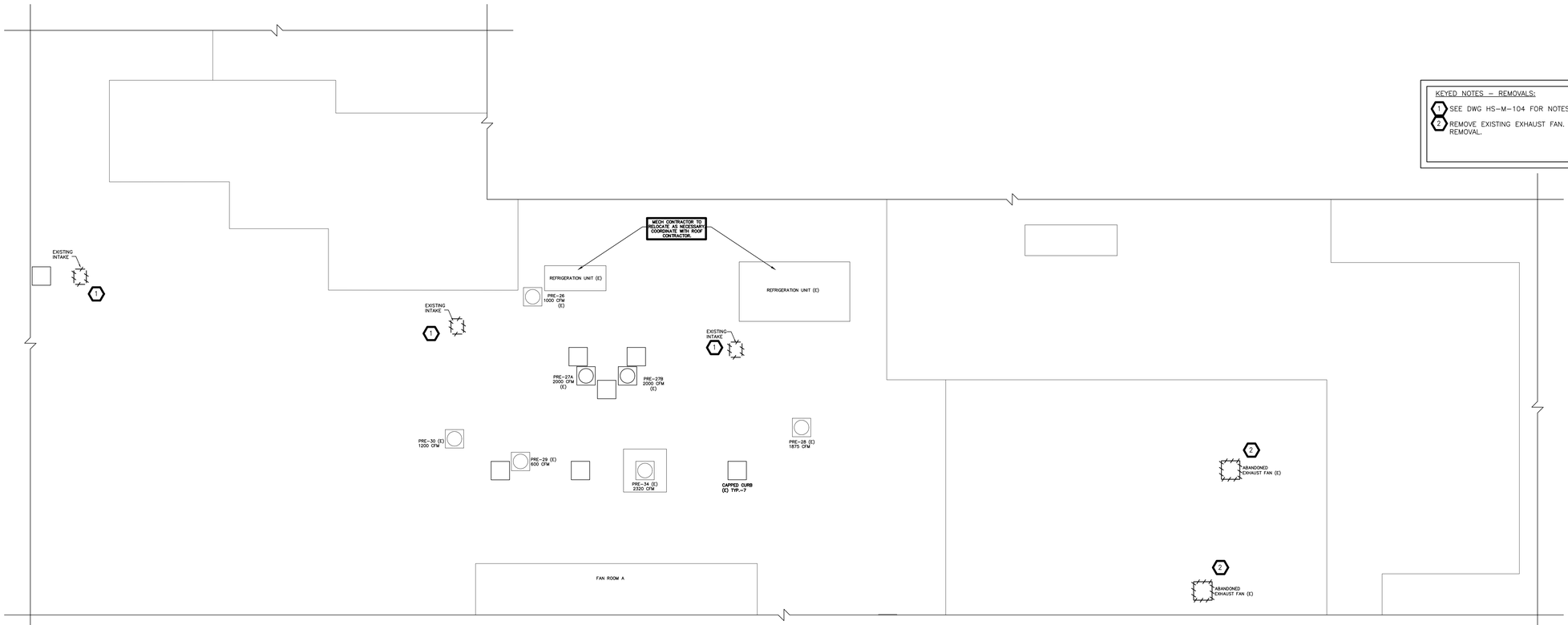
REVISION	DATE
DRAWN BY	
CHECKED BY	
SHEET SIZE	30" X 42"
SCALE	AS NOTED

SHEET TITLE
PAVING PLAN

SHEET NO.
S-124

FILE PATH -N:\1 – PROJECT DIRECTORIES\1– E & R Projects\05– Warwick Valley CSD\05-21-04 Warwick Federal Grant Project\CAD\Package 2\SITE\05-21-06.FF-S-110 – S-505.dwg



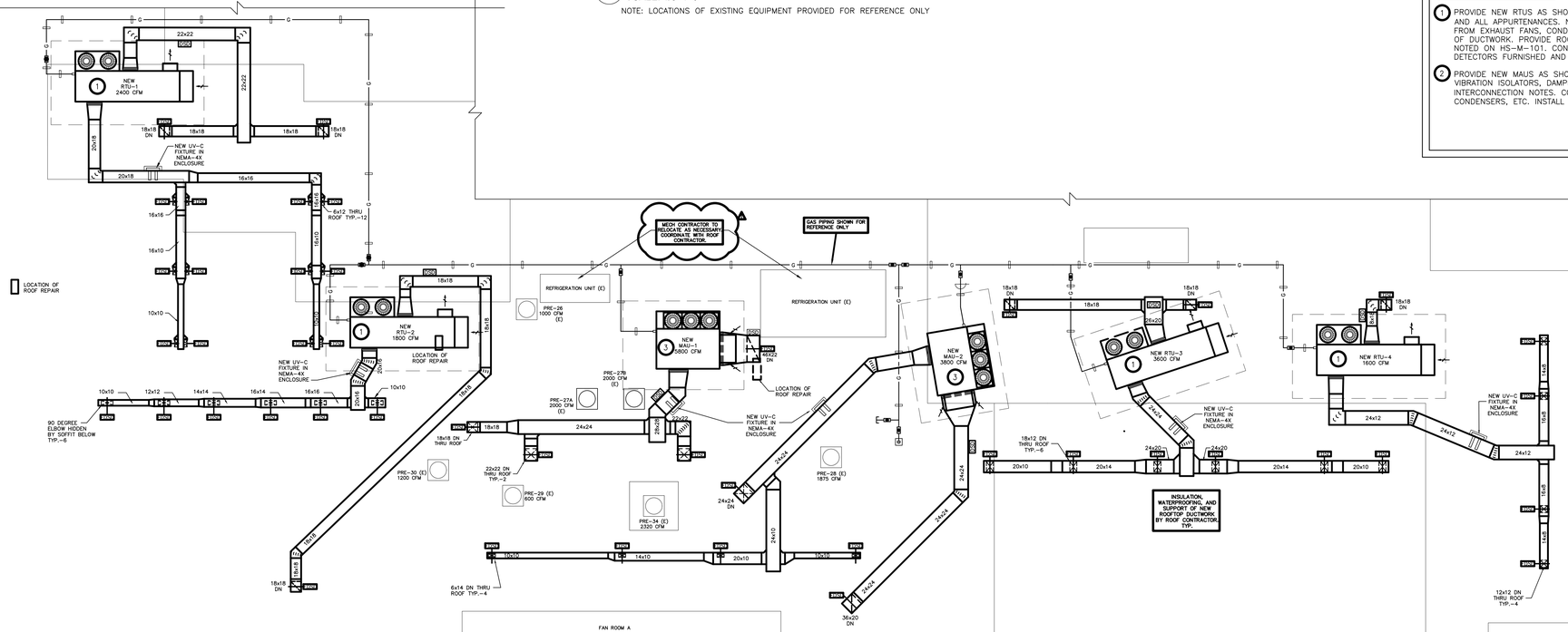
1 PARTIAL ROOF PLAN - DEMOLITION

SCALE: 1/8"=1'-0

NOTE: LOCATIONS OF EXISTING EQUIPMENT PROVIDED FOR REFERENCE ONLY

KEYED NOTES – REMOVALS:

1. SEE DWG HS-M-104 FOR NOTES ON REMOVAL OF EXISTING INTAKES ON ROOF.
2. REMOVE EXISTING EXHAUST FAN. COORDINATE WITH E.C. AND ROOF CONTRACTOR FOR REMOVAL.



2 PARTIAL ROOF PLAN - NEW WORK

SCALE: 1/8"=1'-0

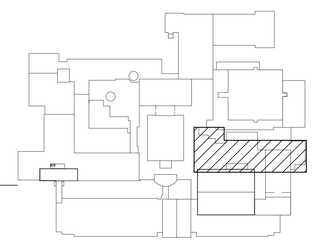
NOTE: LOCATIONS OF EXISTING EQUIPMENT PROVIDED FOR REFERENCE ONLY
COORDINATE WITH ROOF DRAWINGS FOR DUNNAGE

KEYED NOTES – NEW WORK:

1. PROVIDE NEW RTUS AS SHOWN. SEE M-502 FOR SCHEDULE. PROVIDE DUCTWORK, VIBRATION ISOLATORS, DAMPERS, AND ALL APPURTENANCES. NOTE UNIT CLEARANCE REQUIREMENTS. RTU AIR INTAKES SHALL MAINTAIN A 10' DISTANCE FROM EXHAUST FANS, CONDENSERS, ETC. SEE M-500 AND M-501 FOR DETAILS. SEE HS-M-101 FOR CONTINUATION OF DUCTWORK. PROVIDE ROOF PENETRATIONS AND SEAL TO MAKE WEATHERTIGHT. CONNECT TO TEMPERATURE SENSORS NOTED ON HS-M-101. CONNECT UNITS, DETECTORS AND TEMPERATURE SENSORS TO BMS. INSTALL DUCT SMOKE DETECTORS FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR. STRUCTURAL SUPPORTS BY ROOF CONTRACTOR.
2. PROVIDE NEW MAUS AS SHOWN. SEE M-502 FOR SCHEDULE. PROVIDE DUCTWORK WITH INTERIOR ACOUSTIC LINING, VIBRATION ISOLATORS, DAMPERS, AND ALL APPURTENANCES. TIE INTO EXISTING EXHAUST FANS. SEE SEQUENCING FOR INTERCONNECTION NOTES. CONNECT TO BMS. MAU AIR INTAKES SHALL MAINTAIN 10' DISTANCE FROM EXHAUST FANS, CONDENSERS, ETC. INSTALL DUCT SMOKE DETECTORS FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR.

GENERAL NOTES:

1. SEE UV-C LIGHTING SCHEDULES FOR NEW AND EXISTING EQUIPMENT.
2. CONTRACTOR TO COORDINATE WORK TO MAINTAIN ROOF WARRANTY.
3. ALL INTAKES AND DUCTWORK MARKED FOR REMOVAL ARE TO REMAIN FUNCTIONAL UNTIL ASSOCIATED HVAC EQUIPMENT IS REMOVED.



ROOF KEY PLAN

SCALE: NONE

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SCALE	AS NOTED

SHEET TITLE

PARTIAL ROOF PLAN - KITCHEN, SERVERY, & CAFETERIAS - DEMOLITION & NEW WORK

SHEET NO.

HS M-103

FILE PATH - N:\1 – PROJECT DIRECTORIES\1– E & R Projects\05– Warwick Valley CSD\05-21-04 Warwick Federal Grant Project\CAD\Package 2\05-21-04 HS-M101-M104.dwg

PANEL SCHEDULE

PANEL ID: PP-1 VOLTS/PHASE/WIRE 277V/480Y/3PH/4W PANEL SIZE 400A MIN SCC 22 KAIC LOCATION: MECH ROOM

NOTES	CIR. No.	CIRCUIT DESCRIPTION	BKR.	#	BKR.	CIRCUIT DESCRIPTION	CIR. No.	NOTES
	1			A			2	
	3	IRRIGATION PUMP (PUMP PROVIDED BY IC)	40A	B	30A	GRINDER PUMP GP-2	4	
	5			C			6	
	7			A	75A	ELECTRIC WATER HEATER EWH-2	8	
	9	GRINDER PUMP GP-1	30A	B	75A	ELECTRIC WATER HEATER EWH-3	10	
	11			C	20A	PUMP CONTROLS	12	
	13	SPACE	20A	A	20A	ELECTRIC UNIT HEATER EUH1 (BOYS)	14	
	15	SPACE	20A	B	20A	ELECTRIC UNIT HEATER EUH3 (GIRLS)	16	
	17	SPACE	20A	C	20A	ELECTRIC UNIT HEATER EUH2 (MECH RM)	18	
	19	SPACE	20A	A			20	
	21			B	60A	277/480V 50kVA 3PHASE TRANSFORMER	22	
	23	WELL PUMP	20A	C			24	
	25			A	20A	SPACE	26	
	27	ELECTRIC WATER HEATER EWH-1	20A	B	20A	SPACE	28	
	29	SPACE		C	20A	SPACE	30	
	31	SPACE		A	20A	SPACE	32	
	33	SPARE	20A	B	20A	SPARE	34	
	35	SPARE	20A	C	20A	SPARE	36	
	37	SPARE	20A	A	20A	SPARE	38	
	39	SPARE	20A	B	20A	SPARE	40	
	41	SPARE	20A	C	20A	SPARE	42	

NOTES:
MAINS FROM EXISTING SCORBOARD PANEL BOX
2 SETS OF 500 MCM TO BRANCH PANELBOARD

GENERAL NOTES:
- PANELBOARD BUS RATING 400 AMPS
- 277V/480V – 3PHASE/4 WIRE
- SURFACE MOUNTED 42 POLE
- PROVIDE GROUNDING ELECTRODES AT BUILDING

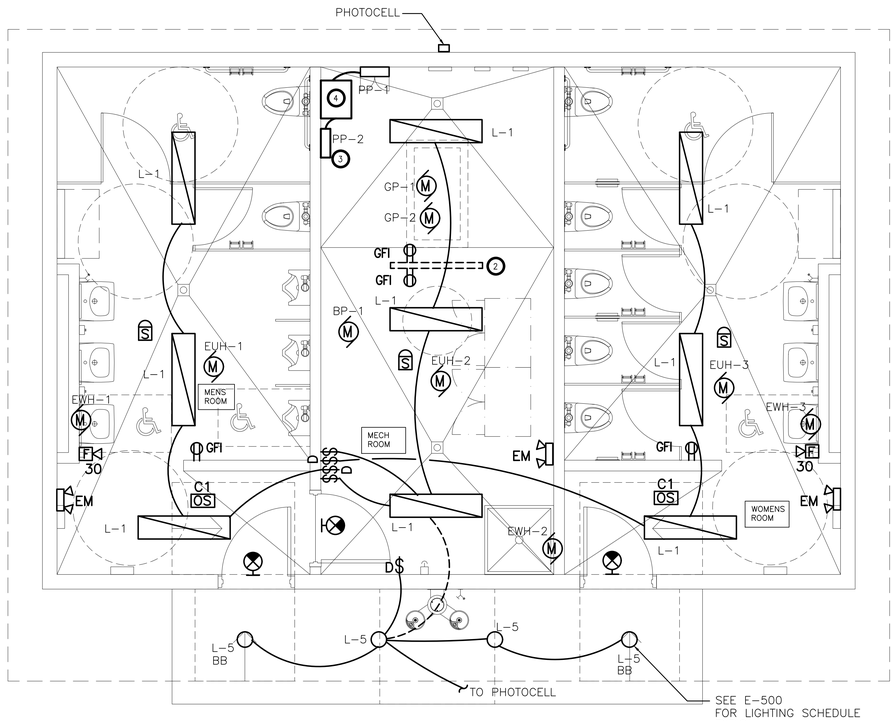
PANEL SCHEDULE

PANEL ID: PP-2 VOLTS/PHASE/WIRE 120V/208Y/3PH/4W PANEL SIZE 100A MIN SCC 22 KAIC LOCATION: MECH ROOM

NOTES	CIR. No.	CIRCUIT DESCRIPTION	BKR.	#	BKR.	CIRCUIT DESCRIPTION	CIR. No.	NOTES
	1	LIGHTS	20A	A	20A	EXHAUST FAN EF-1	2	
	3	LIGHTS	20A	B	20A	EXHAUST FAN EF-2	4	
	5	RECEPTACLES (GFI)	20A	C	20A	EXHAUST FAN EF-3	6	
	7	RECEPTACLES (GFI)	20A	A			8	
	9	POLE MOUNTED LIGHTS	20A	B	20A	BOOSTER PUMP BP-1	10	
	11	SPACE		C			12	
	13			A	20A	POLE MOUNTED LIGHTS	14	
	15	DOMESTIC WATER PUMP DWP-1 (IN TANK)	20A	B	20A	HAND-DRYER (BOYS)	16	
	17			C	20A	HAND-DRYER (GIRLS	18	
	19	SPACE		A		SPACE	20	
	21	SPARE	20A	B	20A	SPARE	22	
	23	SPARE	20A	C	20A	SPARE	24	
	25	SPARE	20A	A	20A	SPARE	26	
	27	SPARE	20A	B	20A	SPARE	28	
	29	SPARE	20A	C	20A	SPARE	30	

NOTES:
MAINS FROM NEW PP-1 PANEL
1 SET OF #2 WITH #6 AWG GRD

GENERAL NOTES:
- PANELBOARD BUS RATING 100 AMPS
- 120V/208V – 3PHASE/4 WIRE
- SURFACE MOUNTED 30 POLE
- PROVIDE GROUNDING ELECTRODES AT BUILDING



1 BATHROOM FLOOR PLAN - NEW WORK

SCALE: 3/8"=1'-0"

KEYED NOTES – NEW WORK:

1. PROVIDE LIGHT FIXTURES, WIRING, CONDUITS, SWITCHING AND ALL APPURTENANCES AS SHOWN.
2. PROVIDE UNISTRUT FRAME FOR MOUNTING CONTROL PANELS AND OUTLETS PROVIDE 4'–0" WIDE BY 4'–0" HIGH (2) ¾"PLYWOOD PAINTED GREY BOTH SIDES. MOUNT 3'–0" AFF.
3. PROVIDE A 100 AMP PANEL (PP–2) 120–208V 3PH 4 WIRE 60 HZ, MIN SCC 22 KAIC WITH ASSOCIATED STEPDOWN TRANSFORMER 45 KVA AND APPURTENANCES.
4. PROVIDE AND INSTALL 45kVA 277/480V 3PHASE PRIMARY TO 120/208V WYE SECONDARY TRANSFORMER, EATON MODEL V48M28T4516 OR EQUIVALENT.

ELECTRIC EQUIPMENT AND CONTROL SCHEDULE

EQUIPMENT						SUPPLY							CONTROLLER DEVICE TYPE & ACCESSORIES (UNO, PROVIDED BY ELECTRICAL CONTRACTOR)													
DESIGNATION	DESCRIPTION	ROOM LOCATION	SIZE			VOLTAGE/ PHASE/HZ	PANEL/ CONTROL CENTER	CIRCUIT NUMBER	BREAKER SIZE	POWER WIRING FROM PANEL TO CONTROL UNIT		POWER WIRING FROM CONTROL UNIT TO EQUIPMENT		GROUND WIRE (SIZED PER NEC)	PACKAGED CONTROL UNIT (BY OTHERS)	VARIABLE FREQUENCY DRIVE (VFD)	CONTROL STARTER	NON-FUSED DISCONNECT SWITCH	CONTROL DEVICE INSTALL LOCATION	DUCT SMOKE DETECTOR (SUPPLY)	DUCT SMOKE DETECTOR (RETURN)	FIRE ALARM FAN SHUTDOWN	DISCONNECT SWITCH			REF. NOTES	DESIGNATION
			HP/WATTS	MOP	MCA					WIRE	COND.	WIRE	COND.										FRAME	FUSE	LOCATION		
GP-1	GRINDER PUMP (OUTDOOR BATHROOM)	MECH RM	1.5	20	3.4	460V/3ϕ/60HZ	PP-1	SEE PANEL SCHED	30A	#12	1"	FACTORY WIRED	---	#12	---			FACTORY WIRED	AT UNIT				60				
GP-2	GRINDER PUMP (OUTDOOR BATHROOM)	MECH RM	1.5	20	3.4	460V/3ϕ/60HZ	PP-1	SEE PANEL SCHED	30A	#12	1"	FACTORY WIRED	---	#12	---			FACTORY WIRED	AT UNIT				60				
EF-1	EXHAUST FAN	BOYS	217 WATTS	20	4	120V/1ϕ/60HZ	PP-2	SEE PANEL SCHED	20A	#12	1"			#12				FACTORY WIRED	AT UNIT				60				
EF-2	EXHAUST FAN	MECH RM	100 WATTS	20	2	120V/1ϕ/60HZ	PP-2	SEE PANEL SCHED	20A	#12	1"			#12				FACTORY WIRED	AT UNIT				60				
EF-3	EXHAUST FAN	GIRLS	217 WATTS	20	4	120V/1ϕ/60HZ	PP-2	SEE PANEL SCHED	20A	#12	1"			#12				FACTORY WIRED	AT UNIT				60				
EUH-1	ELECTRIC UNIT HEATER	BOYS		20	10.8	277V/1ϕ/60HZ	PP-1	SEE PANEL SCHED	20A	#12	1"			#12				FACTORY WIRED	AT UNIT				60				
EUH-2	ELECTRIC UNIT HEATER	MECH RM		20	10.8	277V/1ϕ/60HZ	PP-1	SEE PANEL SCHED	20A	#12	1"			#12				FACTORY WIRED	AT UNIT				60				
EUH-3	ELECTRIC UNIT HEATER	GIRLS		20	10.8	277V/1ϕ/60HZ	PP-1	SEE PANEL SCHED	20A	#12	1"			#12				FACTORY WIRED	AT UNIT				60				
EWH-1	ELECTRIC WATER HEATER	BOYS		75	58	277V/1ϕ/60HZ	PP-1	SEE PANEL SCHED	75A	#4	1¼"			#8				FACTORY WIRED	AT UNIT				100				
EWH-2	ELECTRIC WATER HEATER	MECH RM		75	58	277V/1ϕ/60HZ	PP-1	SEE PANEL SCHED	75A	#4	1¼"			#8				FACTORY WIRED	AT UNIT				100				
EWH-3	ELECTRIC WATER HEATER	GIRLS		75	58	277V/1ϕ/60HZ	PP-1	SEE PANEL SCHED	75A	#4	1¼"			#8				FACTORY WIRED	AT UNIT				100				
WP-1	WELL PUMP	EXTERIOR																									NOTE 2
BP-1	BOOSTER PUMP	MECH RM	2	20	4	208V/3ϕ/60HZ	PP-2	SEE PANEL SCHED	20A	#12	1"			#12				FACTORY WIRED	AT UNIT				60				
DWP-1	DOMESTIC WATER PUMP (IN TANK)	EXTERIOR	1.5	20	8.4	230V/3ϕ/60HZ	PP-2	SEE PANEL SCHED	20A	#12	1"			#12				FACTORY WIRED	AT UNIT				60				

AU – AT UNIT
N/A – NOT APPLICABLE
FRAC. – FRACTIONAL

1. FOLLOW NEC 2020 (NFPA 70) REQUIREMENTS.
2. WELL PUMP WP–1 (TBD) THE WELL DRILLER NEEDS TO PROVIDE A CERTIFIED WATER REPORT FOR PROPER SIZING OF THE WELL PUMP AND REVERSE OSMOSIS SYSTEM. PROVIDE A ALLOWANCE OF $20,000 DOLLARS FOR BIDDING PURPOSES ONLY FINAL SIZING BY MECHANICAL ENGINEER.

AS PART OF BASE BID, ALL WORK ON THIS DRAWING SHALL BE PROVIDED IN ITS ENTIRETY BY THE ELECTRICAL CONTRACTOR.

ENGINEER:
Eisenbach & Ruhnke Engineering, P.C.
291 Genesee Street – Utica, NY 13501
Ph.315-735-1916 Fax.315-735-6365
www.erengpc.com

CONSULTANT(S):
FULLER D'ANGELO P.C.
ARCHITECTS PLANNERS
48 KNOLLWOOD ROAD
ELMSFORD NEW YORK 10523
TEL 914.592.4444
FAX 914.592.1717
WWW.FULLERDANGELO.COM

STAMP
STATE OF NEW YORK · JACK EISENBACH · 050445 · LICENSED PROFESSIONAL ENGINEER

WARWICK VALLEY CENTRAL SCHOOL DISTRICT
HIGH SCHOOL RENOVATIONS, FIELD WORK AND
EXTERIOR BATHROOM BUILDING
225 WEST STREET EXT, WARWICK, NY 10990

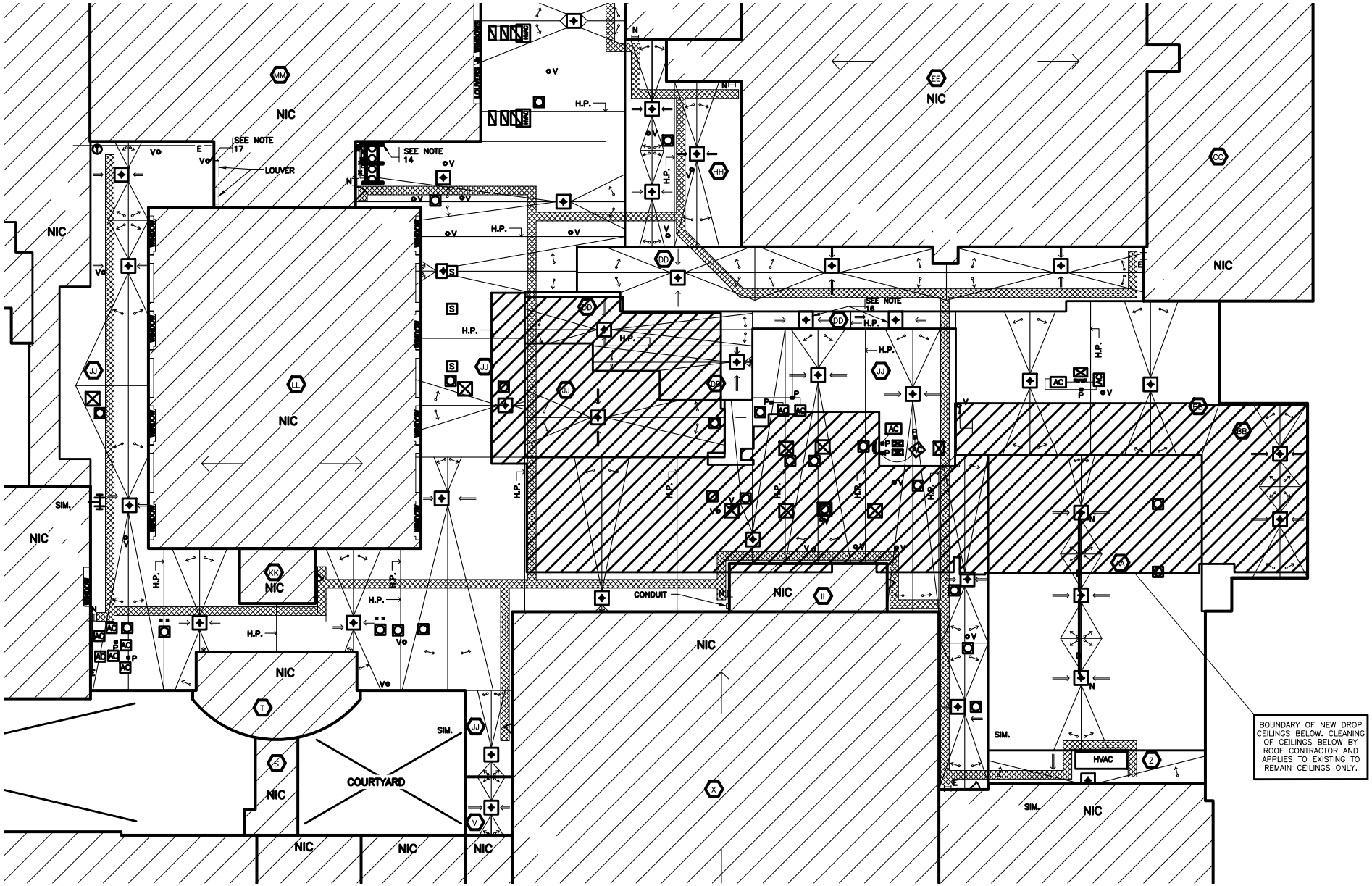
■BB SED NO. 44-21-01-06-7-041-001 (BB-FIELD BATHROOM BUILDING) 89 SANFORDVILLE ROAD, WARWICK, NY 10990
□FF SED NO. 44-21-01-06-7-041-001 (FF-WV FOOTBALL FIELD) 89 SANFORDVILLE ROAD, WARWICK, NY 10990
□HS SED NO. 44-21-01-06-3-001-040 (HS-WV HIGH SCHOOL) 89 SANFORDVILLE ROAD, WARWICK, NY 10990

PROJECT NO.	05-21-04 05-20-06
ADDENDUM 1	5.3.2022
BID SET	04.08.2022
REVISION	DATE
DRAWN BY	
CHECKED BY	
SHEET SIZE	30" X 42"
SCALE	AS NOTED

SHEET TITLE
BATHROOM FLOOR PLAN - NEW WORK

SHEET NO.
BB
E-100

FILE PATH =N:\1 – PROJECT DIRECTORIES\1– E & R Projects\05– Warwick Valley CSD\05-21-04 Warwick Federal Grant Project\CAD\Package 2\05-21-04-BBP100.M100.E100.dwg



1 PARTIAL ROOF PLAN - LOCATION OF NEW DROP CEILINGS NEAR CAFETERIAS/KITCHEN
SCALE:

FILE PATH – N:\1 – PROJECT DIRECTORIES\1– E & R Projects\05– Warwick Valley CSD\05–21–04 Warwick Federal Grant Project\CAD\Package 2\HS Roof\archive\HSR–100 High School Roof plan.dwg

Eisenbach & Ruhnke Engineering, P.C.
291 Genesee Street – Utica, NY 13501 Ph: 315–735–1916
Fax: 315–735–6365 www.erengpc.com

REVISION: ADDENDUM 1
SCALE: AS NOTED
PROJECT NO: 05-21-04 05-20-06
DRAWN BY:

WARWICK VALLEY CENTRAL SCHOOL DISTRICT
FEDERAL GRANT/ CAPITAL BOND - PKG. 2
HIGH SCHOOL RENOVATIONS, FIELD WORK AND EXTERIOR BATHROOM BUILDING
☐ BB SED NO. 44–21–01–06–7–041–001 (BB–FIELD BATHROOM BUILDING) 89 SANFORDVILLE ROAD. WARWICK, NY 10990
☐ FF SED NO. 44–21–01–06–7–041–001 (FF–WV FOOTBALL FIELD) 89 SANFORDVILLE ROAD. WARWICK, NY 10990
■ HS SED NO. 44–21–01–06–0–001–040 (HS–WV HIGH SCHOOL) 89 SANFORDVILLE ROAD. WARWICK, NY 10990
REFERENCE SHEET NO: HSR100

SHEET NO: SK-1

Eisenbach & Ruhnke
ENGINEERING, P.C.

Project: Warwick Valley CSD / High School Renovations, Field Work, Roofing and Exterior Bathroom Bldg.
Meeting Minutes: Pre-bid

Date:	**Next Meeting Scheduled:**	**E&R #**	**Meeting Location**:	**Attachments:** Sign-In Sheets
April 27, 2022 Time: 3:00 PM	TBD	05-21-04 & 05-20-06		

Attendance:
Mark Byrne (WVCSD), Than Harrington (WVCSD), Jack Eisenbach (E&R), Kurt Ryker (Barrett,Inc.), Cornelio Soto (Armor-Tite), Melissa Van Wingerden (Wallkill), Niko Koutsogiannis (Niko Construction), Stephen Viera (Landscape Unlimited), Tom Brennan (JM Brennan), Tsao Pavba (Barrett Roofs)

Item	Description	Action
1.	Jack summarized the project and started with a description of the field and bathroom work.	
2.	Contractors ask to make clearer the delineation of work by the plumber and the Site/Irrigation contractors. Jack indicated the work separation will be delineated in an addendum.	
3.	The general rule is the work in the bathroom building except for the irrigation pump and controls and the pump from the water tank to the building for domestic water is by the plumber. The irrigation work is part of the site contract.	
4.	The excavation, backfill and seeding for the septic line from the bathroom to the high school is by the site contractor beginning 5' from the building. The excavation for the building and within 5' of the building is by the General Contractor. The manhole being added is by the plumber.	
5.	The excavation, backfill and seeding from the scoreboard area MDP to the bathroom building for the electric line is by the site contractor. The electric line is by the Electrical Contractor.	
6.	Field Contractor is the Site Contractor.	
7.	A question was asked about the steel on the roof of the HS. Should it be painted or galvanized.	
8.	A question was asked about who patches the holes in the cafeteria/kitchen/server walls. This will be clarified in an addendum.	
9.	Question asked about who supplies supports for ductwork on the roof and who insulates and makes watertight the ductwork. This will be clarified in addendum.	
10	A question was asked about the requirement to clean above the ceiling tile when roof done. This will be clarified in addendum.	

11	Who relocated the condensers on the roof? This will be clarified in an addendum.	
12	A question asked about who is responsible for the controls for the UV-C lights. This will be clarified in an addendum.	
13	A question was asked about the price increases and how to handle materials costs. This will be clarified in an addendum.	
14	Any questions from contractors will be addressed in writing to all contractors.	
15	The contractors were then shown all the spaces where work is occurring, and the meeting ended.	
16	A question was raised about the steel on the roof at the HS. The steel is to be primed at the manufacturers shop and painted after installation with one coat of paint.	
17	A steel contractor available to do the steel work is MS Iron Works, Phil Spagnoli – President, 27 Stone Castle Road, Rock Tavern, NY 12575; (845) 245-4223. This is not to say he is to be used but he is available.	
18	The irrigation system was designed with assistance from Central Turf and Irrigation Supply. They are prepared to provide all the equipment required for the project, including the water tank and irrigation pump. The contractor can also provide products that are equal.	

End of Meeting Minutes

SIGN IN SHEET

Eisenbach & Ruhnke ENGINEERING, P.C.

291 Genesee St., Utica, NY 13501
315-735-1916 Fax 315-735-6365
www.erengpc.com

Project Name: Warwick – HS Renovations, Field Work Roofing and Exterior Bathroom Building Project #: 05-21-04 & 05-20-06 Date: 4/27/22 @ 3:00 PM

Location: _____ Project Manager: _____

Meeting Type: Pre - Bid Page ____ / ____

Contact Name (print legibly)	Company / Address	Phone/Fax/Email
Kurt Ryker	Barrett Inc. 106 Mill Plain Road Danbury, CT 06811	Ph: 203-744-2780 Fax: 203-791-2218 Email: Kryker@barrettroofing.com
Cornelio Soto	Armor-Tite Const. Corp 114 Pearl St Port Chester, NY	Ph: 914-937-7134 Fax: 914-937-8809 Email: Soto@armor-tite.com
Melissa Van Wingerden	Wallkill Group, Inc. 3505 Rt. 94, Suite 1A Hamburg, NJ 07419	Ph: 973-512-4862 Fax: 973-512-4863 Email: estimating@wallkillgrp.com
Niko Koutsogiannis	Niko E Construction	Ph: 646-784-0306 Fax: 1-917-634-3803 Email: Niko.kouts29@gmail.com
Stephen Vieira	Landscape Unlimited Inc Box 38 Somers, N.Y. 10589	Ph: 914 252 5723 Fax: 914 232 4055 Email: mzlvi3@Gmail

SIGN IN SHEET

Eisenbach & Ruhnke
ENGINEERING, P.C.

291 Genesee St., Utica, NY 13501
315-735-1916 Fax 315-735-6365
www.erengpc.com

Project Name: Warwick – HS Renovations, Field Work Roofing and Exterior Bathroom Building Project #: 05-21-04 & 05-20-06 Date: 4/27/22 @ 3:00 PM

Location: _____ Project Manager: _____

Meeting Type: Pre - Bid Page ____ / ____

Contact Name (print legibly)	Company / Address	Phone/Fax/Email
Thom, JE		Ph: _____ Fax: _____ Email: _____
TOM BRENNAN	TMB 325 Rte 94 Hamburg NJ	Ph: 973 445 6485 Fax: _____ Email: tombrennan@tmbrennaninc.com
Kyle Wisniewski	Ashley Mechanical Inc 27 Franklin St Kingston NY 12401	Ph: 845-331-1552 Fax: _____ Email: kwisniewski@ashleymechanical.com
MARK BARNE	WVCSD	Ph: 845-562-1287 Fax: _____ Email: M42155@EMAIL.COM
		Ph: _____ Fax: _____ Email: _____

SIGN IN SHEET

Eisenbach & Ruhnke
ENGINEERING, P.C.

291 Genesee St., Utica, NY 13501
315-735-1916 Fax 315-735-6365
www.erengpc.com

Project Name: Warwick – HS Renovations, Field Work Roofing and Exterior Bathroom Building

Project #: 05-21-04 & 05-20-06

Date: 4/27/22 @ 3:00 PM

Location: _____

Project Manager: _____

Meeting Type: Pre - Bid

Page ____ / ____

Contact Name (print legibly)	Company / Address	Phone/Fax/Email
Taso Pavlos	Barrett Roofs Inc	Ph: 917-697-9729 Fax: _____ Email: Taso0229@gmail.com
		Ph: _____ Fax: _____ Email: _____
		Ph: _____ Fax: _____ Email: _____
		Ph: _____ Fax: _____ Email: _____
		Ph: _____ Fax: _____ Email: _____

Warwick Valley Central School District
High School
Renovations, Field Work, Roofing and Exterior Bathroom Building

Contract	Project Budget
General Construction	$1,755,000.00
Electrical	$450,000.00
Plumbing	$18,500.00
HVAC	$450,000.00
Fields (Site Work)	$1,600,000.00
Roofing	$1,500,000.00

SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 1 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: Jack Eisenbach jeisenbach@erengpc.com John Jouben jjouben@erengpc.com and Angela Correll acorrell@erengpc.com

B. FROM (CO. NAME): Wallkill Group, Inc.

DATE: 4/22/2022

EMAIL/FAX NO. estimating@wallkillgroup.com

CONTACT NAME: Melissa VW

SUBJECT: Project Schedule

DISCIPLINE/TRADE: _____

DWG./SPEC. REFERENCE: _____

QUESTION:

Can you please provide a schedule- when is this project to start and be completed by?

RESPONSE:

Start as soon as possible after award on Bathroom and parts of interior depending on materials delivery. Finish date depends on deliver of materials.

ENGINEER'S SIGNATURE: _____

DATE: 4/29/22

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive..

END OF SECTION

SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. #1 **E&R RFI NO:_____**

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: Jack Eisenbach jeisenbach@erengpc.com John Jouben jjouben@erengpc.com and Angela Correll acorrell@erengpc.com

B. FROM (CO. NAME): Joseph Lombardo P&H of Rockland County

DATE: 4/25/2022

EMAIL/FAX NO. ghoffmann@josephlombardo.com

CONTACT NAME: George Hoffmann

SUBJECT: Domestic water riser diagram

DISCIPLINE/TRADE: Plumbing

DWG./SPEC. REFERENCE: P-500

QUESTION:

Fixture & Equipment Connection Schedule call for ¾" connections to the water closets & urinals. Pipe connections to the "Sloan Flush Valves' are 1". Per manufacture specifications.

Riser diagram shows ¾" pipe supplied from a 1" pipe off of a 2" domestic water supply pipe.

¾" supply connection to the Sloan Flush Valves will compromise how the valves will function.
RFI-#1 – Will a revised drawing be issued to correct the issue as described above?

RESPONSE:
Attached Drawing shows revised pipe sizes.

ENGINEER'S SIGNATURE: _____

DATE: 4/29/22

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END OF SECTION

SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. #2 **E&R RFI NO:**

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: Jack Eisenbach jeisenbach@erengpc.com John Jouben jjouben@erengpc.com and Angela Correll acorrell@erengpc.com

B. FROM (CO. NAME): Joseph Lombardo P&H of Rockland County

DATE: 4/25/2022

EMAIL/FAX NO. ghoffmann@josephlombardo.com

CONTACT NAME: George Hoffmann

SUBJECT: Fiat Mop Sink

DISCIPLINE/TRADE: Plumbing

DWG./SPEC. REFERENCE: P-500

QUESTION:

Fixture & Equipment Connection Schedule calls for a Fiat MSB-3636 "Molded Stone Basin"

~~According to the supply houses the MSB-3636 is not an option as a molded stone basin.~~
A Fiat SB3636 is available as a "Terrazzo Mop Basin".

RFI-#2, Should the SB3636 by Fiat in Terrazzo be installed or a different manufactured basin?

~~If a different manufacturer is to be used, please provide make, model & manufacturer.~~

RESPONSE:
MSB stands for Mop Sink Basin.

ENGINEER'S SIGNATURE:

DATE: 4/29/22

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive..

END OF SECTION

SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 001 **E&R RFI NO:** _____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: Jack Eisenbach jeisenbach@erengpc.com John Jouben jjouben@erengpc.com and Angela Correll acorrell@erengpc.com

B. FROM (CO. NAME): Landscape Unlimited, Inc.

DATE: April 26, 2022

EMAIL/FAX NO. mzlui3@gmail.com / 914-232-4055

CONTACT NAME: Stephen Vieira

SUBJECT: Construction Schedule/Sod & Irrigation Specs

DISCIPLINE/TRADE: Field Work& Irrigation

DWG./SPEC. REFERENCE: _____

QUESTION: 1. There is no construction schedule listed in the spec book. Can you please provide anticipated start & completion dates for this project?

2. Please provide specs for Sod, Irrigation & Fencing .

RESPONSE:

1. See Revised Section 01 1000
2. Included in Addendum 1

ENGINEER'S SIGNATURE: _____

DATE: 4.29.2022

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END OF SECTION

SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 1 **E&R RFI NO:** _____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: Jack Eisenbach jeisenbach@erengpc.com John Jouben jjouben@erengpc.com and Angela Correll acorrell@erengpc.com

B. FROM (CO. NAME): TM Brennan Service, Inc

DATE: 4.22.2022

EMAIL/FAX NO. tmbservice@tmbrennaninc.com

CONTACT NAME: Andy

SUBJECT: Schedule and Controls

DISCIPLINE/TRADE: mechanical

DWG./SPEC. REFERENCE: 230995 and 233600

QUESTION:

1. Project Schedule - When is the date for substantial completion
Is this entire project taking place this summer?

2. Controls - section 230995 states you would like Andover controls and section 233600 indicates it is a JCI system. Please advise if JCI or if only open to Andover Controls. And who is the rep their currently?

RESPONSE:

1 - coordinate with Jack Eisenbach

2 - Johnson Controls

ENGINEER'S SIGNATURE: JMJ

DATE: 4-28-2022

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive..

END OF SECTION

SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 1 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: jeisenbach@erengpc.com jjouben@erengpc.com acorrell@erengpc.com

B. FROM (CO. NAME): Ashley Mechanical

DATE: _____

EMAIL/FAX NO. kclasen@ashleymechanical.com

CONTACT NAME: Keith Clasen

SUBJECT: _____

DISCIPLINE/TRADE: Heating

DWG./SPEC. REFERENCE: Spec 23 31 00 or 23 07 13

QUESTION:

Spec 23 31 00 or 23 07 13, does not list duct liner. Can we get info on duct liner to be used for the MAU roof ductwork?

RESPONSE:

Use exterior insulation and roofing to waterproof.

ENGINEER'S SIGNATURE: _____

DATE: 4/29/2022

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive..

END OF SECTION

SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 2 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: jeisenbach@erengpc.com jjouben@erengpc.com acorrell@erengpc.com

B. FROM (CO. NAME): Ashley Mechanical

DATE: _____

EMAIL/FAX NO. kclasen@ashleymechanical.com

CONTACT NAME: Keith Clasen

SUBJECT: _____

DISCIPLINE/TRADE: Plumbing

DWG./SPEC. REFERENCE: Spec 22 10 05

QUESTION:

Spec 22 10 05 does not list underground sanitary sewer piping. Can we get info for the underground sewer piping to be used?

RESPONSE:

Use Schedule 40 SDR

ENGINEER'S SIGNATURE: _____

DATE: 4/29/2022

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive..

END OF SECTION

SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 3 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: jeisenbach@erengpc.com jjouben@erengpc.com acorrell@erengpc.com

B. FROM (CO. NAME): Ashley Mechanical

DATE: _____

EMAIL/FAX NO. kclasen@ashleymechanical.com

CONTACT NAME: Keith Clasen

SUBJECT: _____

DISCIPLINE/TRADE: Heating

DWG./SPEC. REFERENCE: HS M101

QUESTION:

Who owns patching the wall? Part of GC scope?

RESPONSE:

GC is to patch walls where transfer Grilles and Diffusers are removed.

ENGINEER'S SIGNATURE: _____

DATE: 4/29/2022

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive..

END OF SECTION

SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 4 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: jeisenbach@erengpc.com jjouben@erengpc.com acorrell@erengpc.com

B. FROM (CO. NAME): Ashley Mechanical

DATE: _____

EMAIL/FAX NO. kclasen@ashleymechanical.com

CONTACT NAME: Keith Clasen

SUBJECT: _____

DISCIPLINE/TRADE: Heating

DWG./SPEC. REFERENCE: HS M101

QUESTION:

Why cut and cap duct if just abandoning in place? Why not leave RGD's in place to save on patching?

RESPONSE:

It will be come home to critters if not capped.

ENGINEER'S SIGNATURE: _____

DATE: 4/29/2022

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive..

END OF SECTION

SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 5 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: jeisenbach@erengpc.com jjouben@erengpc.com acorrell@erengpc.com

B. FROM (CO. NAME): Ashley Mechanical

DATE: _____

EMAIL/FAX NO. kclasen@ashleymechanical.com

CONTACT NAME: Keith Clasen

SUBJECT: _____

DISCIPLINE/TRADE: Heating

DWG./SPEC. REFERENCE: HS M103

QUESTION:

No liner on RTU duct but it is called out for MAU's, is this correct?

RESPONSE:

Exterior Insulation Only

ENGINEER'S SIGNATURE: _____

DATE: 4/29/2022

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive..

END OF SECTION

SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 6 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: jeisenbach@erengpc.com jjouben@erengpc.com acorrell@erengpc.com

B. FROM (CO. NAME): Ashley Mechanical

DATE: _____

EMAIL/FAX NO. kclasen@ashleymechanical.com

CONTACT NAME: Keith Clasen

SUBJECT: _____

DISCIPLINE/TRADE: Heating

DWG./SPEC. REFERENCE: HS M103

QUESTION:

Duct supports called out to be by roofer, is this correct? Would make more sense to put duct supports in HVAC scope for coordination purposes. Please advise.

RESPONSE:

Supports by HVAC. Walk pads and pavers by roofer.

ENGINEER'S SIGNATURE: _____

DATE: 4/29/2022

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive..

END OF SECTION

SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 7 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: jeisenbach@erengpc.com jjouben@erengpc.com acorrell@erengpc.com

B. FROM (CO. NAME): Ashley Mechanical

DATE: _____

EMAIL/FAX NO. kclasen@ashleymechanical.com

CONTACT NAME: Keith Clasen

SUBJECT: _____

DISCIPLINE/TRADE: Heating

DWG./SPEC. REFERENCE: HS M104

QUESTION:

Note 2 & 3 – Pad and asphalt work by GC? Per walkthrough, this work by owner, please confirm.

RESPONSE:

Pad, bollards and asphalt work by Owner.

ENGINEER'S SIGNATURE: _____

DATE: 4/29/2022

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive..

END OF SECTION

SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 8 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: jeisenbach@erengpc.com jjouben@erengpc.com acorrell@erengpc.com

B. FROM (CO. NAME): Ashley Mechanical

DATE: _____

EMAIL/FAX NO. kclasen@ashleymechanical.com

CONTACT NAME: Keith Clasen

SUBJECT: _____

DISCIPLINE/TRADE: Heating

DWG./SPEC. REFERENCE: HS M104

QUESTION:

No fencing or bollards shown around chiller, is this correct? Per walkthrough, no fence, bollards by owner. Please confirm

RESPONSE:

Correct

ENGINEER'S SIGNATURE: _____

DATE: 4/29/2022

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive..

END OF SECTION

SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 9 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: jeisenbach@erengpc.com jjouben@erengpc.com acorrell@erengpc.com

B. FROM (CO. NAME): Ashley Mechanical

DATE: _____

EMAIL/FAX NO. kclasen@ashleymechanical.com

CONTACT NAME: Keith Clasen

SUBJECT: _____

DISCIPLINE/TRADE: Heating

DWG./SPEC. REFERENCE: HS M501

QUESTION:

Confirm that EC owns providing and wiring detectors, installed by MC.

RESPONSE:

Yes

ENGINEER'S SIGNATURE: _____

DATE: 4/29/2022

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END OF SECTION

SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 10 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: jeisenbach@erengpc.com jjouben@erengpc.com acorrell@erengpc.com

B. FROM (CO. NAME): Ashley Mechanical

DATE: _____

EMAIL/FAX NO. kclasen@ashleymechanical.com

CONTACT NAME: Keith Clasen

SUBJECT: _____

DISCIPLINE/TRADE: Heating

DWG./SPEC. REFERENCE: HS M503

QUESTION:

Does EC own all the wiring for the UV-C lighting? Per walkthrough, owner providing and installing UV-C lights in unit vents, but not RTU/MAU's. Connection of UV-C lights to BMS by HVAC. E&R to advise if owner will provide UV-C lights for RTU/MAU's from own vendor. Please confirm.

RESPONSE:

UV-C lighting and controls by Owner. No work by HVAC or EC on UV-C lights.

ENGINEER'S SIGNATURE: _____

DATE: 4/29/2022

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END OF SECTION

SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 11 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: jeisenbach@erengpc.com jjouben@erengpc.com acorrell@erengpc.com

B. FROM (CO. NAME): Ashley Mechanical

DATE: _____

EMAIL/FAX NO. kclasen@ashleymechanical.com

CONTACT NAME: Keith Clasen

SUBJECT: _____

DISCIPLINE/TRADE: Plumbing

DWG./SPEC. REFERENCE: P-001

QUESTION:

Note about PC owns jetting exiting lines? To what extent?

RESPONSE:

No required. Delete.

ENGINEER'S SIGNATURE: _____

DATE: 4/29/2022

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END OF SECTION

SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 12 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: jeisenbach@erengpc.com jjouben@erengpc.com acorrell@erengpc.com

B. FROM (CO. NAME): Ashley Mechanical

DATE: _____

EMAIL/FAX NO. kclasen@ashleymechanical.com

CONTACT NAME: Keith Clasen

SUBJECT: _____

DISCIPLINE/TRADE: Plumbing

DWG./SPEC. REFERENCE: BB P-100

QUESTION:

Note 3 for DWP pump in UG tank. IF UG tank is by field guy is this pump also by them?

RESPONSE:

DWP in 20,000 tank is by irrigation contractor. Well pumps to tank by plumber including piping to tank.

ENGINEER'S SIGNATURE: _____

DATE: 4/29/2022

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END OF SECTION

SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 13 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: jeisenbach@erengpc.com jjouben@erengpc.com acorrell@erengpc.com

B. FROM (CO. NAME): Ashley Mechanical

DATE: _____

EMAIL/FAX NO. kclasen@ashleymechanical.com

CONTACT NAME: Keith Clasen

SUBJECT: _____

DISCIPLINE/TRADE: Plumbing

DWG./SPEC. REFERENCE: BB P-100

QUESTION:

Note 4 for well pump allowance, Is well pump to be by the PC contractor? If yes who owns the piping from the pump to the UG tank?

RESPONSE:

Well pump by PC. Piping to tank by PC. Allowance is if we need more than 1. One in the contract.

ENGINEER'S SIGNATURE: _____

DATE: 4/29/2022

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END OF SECTION

SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 14 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: jeisenbach@erengpc.com jjouben@erengpc.com acorrell@erengpc.com

B. FROM (CO. NAME): Ashley Mechanical

DATE: _____

EMAIL/FAX NO. kclasen@ashleymechanical.com

CONTACT NAME: Keith Clasen

SUBJECT: _____

DISCIPLINE/TRADE: Plumbing

DWG./SPEC. REFERENCE: S-101

QUESTION:

2" PW from BB to manhole? Dwg calls for by PC. Who owns this line and the new manhole? E&R to advise.
We suggest keeping plumbing scope to 5ft outside the building and having the site contractor own everything 5ft and beyond. Please advise.

RESPONSE:

PC owns to sanitary and manhole. Trenching, backfill, seed by site contractor.

ENGINEER'S SIGNATURE: _____

DATE: 4/29/2022

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END OF SECTION

SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 15 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: jeisenbach@erengpc.com jjouben@erengpc.com acorrell@erengpc.com

B. FROM (CO. NAME): Ashley Mechanical

DATE: _____

EMAIL/FAX NO. kclasen@ashleymechanical.com

CONTACT NAME: Keith Clasen

SUBJECT: _____

DISCIPLINE/TRADE: Plumbing

DWG./SPEC. REFERENCE: S-101

QUESTION:

1" CW to steeplechase? Dwg calls for by PC. Should the field guys own this? Per walkthrough, by field guy. Please confirm

RESPONSE:

This is by site contractor

ENGINEER'S SIGNATURE: _____

DATE: 4/29/2022

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive..

END OF SECTION

SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 16 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: jeisenbach@erengpc.com jjouben@erengpc.com acorrell@erengpc.com

B. FROM (CO. NAME): Ashley Mechanical

DATE: _____

EMAIL/FAX NO. kclasen@ashleymechanical.com

CONTACT NAME: Keith Clasen

SUBJECT: _____

DISCIPLINE/TRADE: Plumbing

DWG./SPEC. REFERENCE: S-101

QUESTION:

School owns the well, what about the UG tank and the piping to the BB? UG tank by field guy. Piping in question. Please confirm

RESPONSE:

UG tank by site (irrigation) contractor. Piping to BB from tank by site contractor.

ENGINEER'S SIGNATURE: _____

DATE: 4/29/2022

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END OF SECTION

SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 17 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: jeisenbach@erengpc.com jjouben@erengpc.com acorrell@erengpc.com

B. FROM (CO. NAME): Ashley Mechanical

DATE: _____

EMAIL/FAX NO. kclasen@ashleymechanical.com

CONTACT NAME: Keith Clasen

SUBJECT: _____

DISCIPLINE/TRADE: Plumbing

DWG./SPEC. REFERENCE: S-101

QUESTION:

Note 5 says all excavation and backfill by site contractor, however there is no site prime? Per walkthrough, by field guy. Please confirm

RESPONSE:

Site is field contractor

ENGINEER'S SIGNATURE: _____

DATE: 4/29/2022

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive..

END OF SECTION

SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 18 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: jeisenbach@erengpc.com jjouben@erengpc.com acorrell@erengpc.com

B. FROM (CO. NAME): Ashley Mechanical

DATE: _____

EMAIL/FAX NO. kclasen@ashleymechanical.com

CONTACT NAME: Keith Clasen

SUBJECT: _____

DISCIPLINE/TRADE: Heating

DWG./SPEC. REFERENCE: 23 0000 HVAC Scope

QUESTION:

Item #6 says we own all steel supports. Note #21 on HSR-100 says steel by Roofer. Please confirm. Per walkthrough, by roofer. Please confirm

RESPONSE:

Steel supports for RTU /MAU is by roofer

ENGINEER'S SIGNATURE: _____

DATE: 4/29/2022

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END OF SECTION

SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 19 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: jeisenbach@erengpc.com jjouben@erengpc.com acorrell@erengpc.com

B. FROM (CO. NAME): Ashley Mechanical

DATE: _____

EMAIL/FAX NO. kclasen@ashleymechanical.com

CONTACT NAME: Keith Clasen

SUBJECT: _____

DISCIPLINE/TRADE: Heating

DWG./SPEC. REFERENCE: 23 0000 HVAC Scope

QUESTION:

Item #17 says to provide duct leakage testing. To what extent? New work only, not existing?

RESPONSE:

Delete from specification. Non required

ENGINEER'S SIGNATURE: _____

DATE: 4/29/2022

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive..

END OF SECTION

SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 20 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: jeisenbach@erengpc.com jjouben@erengpc.com acorrell@erengpc.com

B. FROM (CO. NAME): Ashley Mechanical

DATE: _____

EMAIL/FAX NO. kclasen@ashleymechanical.com

CONTACT NAME: Keith Clasen

SUBJECT: _____

DISCIPLINE/TRADE: Heating

DWG./SPEC. REFERENCE: 23 0000 HVAC Scope

QUESTION:

GC owns foundations and pads. Does this include the chiller pad? Per walkthrough, this work by owner, please confirm

RESPONSE:

Yes. Owner doing chiller pad.

ENGINEER'S SIGNATURE: _____

DATE: 4/29/2022

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive..

END OF SECTION

SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 21 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: jeisenbach@erengpc.com jjouben@erengpc.com acorrell@erengpc.com

B. FROM (CO. NAME): Ashley Mechanical

DATE: _____

EMAIL/FAX NO. kclasen@ashleymechanical.com

CONTACT NAME: Keith Clasen

SUBJECT: _____

DISCIPLINE/TRADE: Heating

DWG./SPEC. REFERENCE: 23 0000 HVAC Scope

QUESTION:

EC to provide power wiring for HVAC equipment. Does this include all the wiring associated with UV-C lights?
Per walkthrough, this work by owner, except connection of lights to BMS.

RESPONSE:

UV-C lights not in contract.

ENGINEER'S SIGNATURE: _____

DATE: 4/29/2022

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive..

END OF SECTION

SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 22 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: jeisenbach@erengpc.com jjouben@erengpc.com acorrell@erengpc.com

B. FROM (CO. NAME): Ashley Mechanical

DATE: _____

EMAIL/FAX NO. kclasen@ashleymechanical.com

CONTACT NAME: Keith Clasen

SUBJECT: _____

DISCIPLINE/TRADE: Heating

DWG./SPEC. REFERENCE: 23 0000 HVAC Scope

QUESTION:

Currently HVAC prime owns controls work. E&R to advise if owner to handle control work directly as previously done. Please confirm.

RESPONSE:

Controls will be by Owner

ENGINEER'S SIGNATURE: _____

DATE: 4/29/2022

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END OF SECTION

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RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 23 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: jeisenbach@erengpc.com jjouben@erengpc.com acorrell@erengpc.com

B. FROM (CO. NAME): Ashley Mechanical

DATE: 4/29/2022

EMAIL/FAX NO. kclasen@ashleymechanical.com

CONTACT NAME: Keith Clasen

SUBJECT: _____

DISCIPLINE/TRADE: Heating

DWG./SPEC. REFERENCE: HS M 104

QUESTION:

Is there a piping diagram for the chiller thats being replaced?

RESPONSE:

No. It is a direct replacement. Disconnect and connect to new.

ENGINEER'S SIGNATURE: _____

DATE: 4/29/2022

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RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 001 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: Jack Eisenbach jeisenbach@erengpc.com John Jouben jjouben@erengpc.com and Angela Correll acorrell@erengpc.com

B. FROM (CO. NAME): Rockland Electric

DATE: 4-28-22

EMAIL/FAX NO. rocklandelectric@gmail.com

CONTACT NAME: John Fanshawe

SUBJECT: Fire Alarm

DISCIPLINE/TRADE: Contract #2 Electrical

DWG./SPEC. REFERENCE: _____

QUESTION:

1. Can you please provide Fire Alarm System control panel manufacturer/model?
2. Can you provide contact for School District's Fire Alarm Service Company?

RESPONSE:

Answers: 1. Honeywell Notifier, Model: NFS2-3030.
2. James Hoffman, (845) 656-6568 - jamesh@nortek-us.com
Nortek Protective Systems Corp.,5 Plumb Court, Wappingerfalls NY 12590

ENGINEER'S SIGNATURE: Brett A. Saunders

DATE: 05/02/2022

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RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 002 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: Jack Eisenbach jeisenbach@erengpc.com John Jouben jjouben@erengpc.com and Angela Correll acorrell@erengpc.com

B. FROM (CO. NAME): Rockland Electric

DATE: 4-28-22

EMAIL/FAX NO. rocklandelectric@gmail.com

CONTACT NAME: John Fanshawe

SUBJECT: Conduit

DISCIPLINE/TRADE: Contract #2 Electrical

DWG./SPEC. REFERENCE: S-101

QUESTION:

1. 4" Conduit from meter to new bathroom bldg. Drawing states by EC. Please confirm conduit is in Contract #2 Electrical Work.

2. 1 1/2" conduit from scoreboard to bleachers (Same Question)

RESPONSE:

YES, BOTH CONDUITS ARE IN CONTRACT #2 (ELECTRICAL) CONDUITS AND WIRING ARE TO BE PROVIDED AND INSTALL BY EC. REFER TO REVISED DRAWING FF E-103. TRENCHING & BACKFILL BY GC.

ENGINEER'S SIGNATURE: Brett A Saunders

DATE: 04/29/2022

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RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 003 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: Jack Eisenbach jeisenbach@erengpc.com John Jouben jjouben@erengpc.com and Angela Correll acorrell@erengpc.com

B. FROM (CO. NAME): Rockland Electric

DATE: 4-28-22

EMAIL/FAX NO. rocklandelectric@gmail.com

CONTACT NAME: John Fanshawe

SUBJECT: BB E-100 note

DISCIPLINE/TRADE: Contract #2 Electrical

DWG./SPEC. REFERENCE: BB E-100

QUESTION:

1. Note number 2 on equipment schedule reads " Provide an allowance of 20,000 for bidding purposes"

Please confirm if this is to be included in Contract #2 electrical work.

RESPONSE:

This is part of Contract #2 - Electrical, increase allowance to $30,000 for bidding purposes.

ENGINEER'S SIGNATURE: Brett A. Saunders

DATE: 04/29/2022

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RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 1 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: Jack Eisenbach jeisenbach@erengpc.com John Jouben jjouben@erengpc.com and Angela Correll acorrell@erengpc.com

B. FROM (CO. NAME): Barrett Inc.

DATE: 04/29/22

EMAIL/FAX NO. kryker@barrettroofing.com

CONTACT NAME: Kurt Ryker

SUBJECT: Window Walls

DISCIPLINE/TRADE: Roofing

DWG./SPEC. REFERENCE: 15&16/HSR-102

QUESTION:

Please provide a specification and elevations for the new window wall replacements per 15&16/HSR-102

RESPONSE:

There is no window wall replacement. The Section being removed is detailed on the Drawings.

ENGINEER'S SIGNATURE: _____

DATE: 5.4.22

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SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 2 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: Jack Eisenbach jeisenbach@erengpc.com John Jouben jjouben@erengpc.com and Angela Correll acorrell@erengpc.com

B. FROM (CO. NAME): Barrett Inc.

DATE: 04/29/22

EMAIL/FAX NO. kryker@barrettroofing.com

CONTACT NAME: Kurt Ryker

SUBJECT: Abatement

DISCIPLINE/TRADE: Roofing

DWG./SPEC. REFERENCE: 7&8/HSR-101

QUESTION:

During the pre-bid it was mentioned that the only abatement scope in the roofing contract #6 was the vermiculite inside the walls for the new duct penetrations per HSR111, HSR112 & HSR113. Note 11 on detail 8/HSR-101 reference that all brick wall removals are to be disposed as asbestos. Should the window wall removals be disposes as asbestos due to the existing mullion attachment? Please clarify the roofing contract #6 brick & wall removals abatement scope.

RESPONSE:

The walls being removed in the Gym and Lobby where the asbestos containing vermiculite is shall be disposed of as asbestos containing/contaminated, including the brick.

ENGINEER'S SIGNATURE: _____

DATE: 5.4.22

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SECTION 00 2114

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 3 **E&R RFI NO:** _____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: Jack Eisenbach jeisenbach@erengpc.com John Jouben jjouben@erengpc.com and Angela Correll acorrell@erengpc.com

B. FROM (CO. NAME): Barrett Inc.

DATE: 04/29/22

EMAIL/FAX NO. kryker@barrettroofing.com

CONTACT NAME: Kurt Ryker

SUBJECT: Cleaning

DISCIPLINE/TRADE: Roofing

DWG./SPEC. REFERENCE: _____

QUESTION:

If the roof removals/replacement occur after summer 2022, and the new ceiling tiles are installed by others during summer 2022. Does the roofing contract own cleaning of the interior ceiling space above the new ceilings?

RESPONSE:

Included in Addendum 1 is a drawing showing the locations of the new ceiling tile.
The new tiles in the areas where the roof is being replaced will not be installed until the roof is complete.
In areas where the ceiling tile is not being replaced, shall be cleaned as part of the roof work.

ENGINEER'S SIGNATURE: _____

DATE: 5.4.22

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RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 4 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: Jack Eisenbach jeisenbach@erengpc.com John Jouben jjouben@erengpc.com and Angela Correll acorrell@erengpc.com

B. FROM (CO. NAME): Barrett Inc.

DATE: 04/29/22

EMAIL/FAX NO. kryker@barrettroofing.com

CONTACT NAME: Kurt Ryker

SUBJECT: 071900 Water Repellents

DISCIPLINE/TRADE: Roofing

DWG./SPEC. REFERENCE: 071900 Water Repellents

QUESTION:
Does the roofing contract own the 071900 Water Repellents scope of work? Where does this scope occur?

RESPONSE:
Not Needed

ENGINEER'S SIGNATURE: _____

DATE: 5.4.22

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RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 5 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: Jack Eisenbach jeisenbach@erengpc.com John Jouben jjouben@erengpc.com and Angela Correll acorrell@erengpc.com

B. FROM (CO. NAME): Barrett Inc.

DATE: 04/29/22

EMAIL/FAX NO. kryker@barrettroofing.com

CONTACT NAME: Kurt Ryker

SUBJECT: Duct/Pipe Supports

DISCIPLINE/TRADE: Roofing

DWG./SPEC. REFERENCE: 27/HSR103 & 37/HSR104

QUESTION:

Which contract owns furnishing and installing the rooftop pipe and duct supports?

RESPONSE:

The Gas piping is by Plumber and duct supports by HVAC.

ENGINEER'S SIGNATURE: _____

DATE: 5.4.22

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RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. 1 **E&R RFI NO:**_____

NAME OF PROJECT:

WARWICK VALLEY CSD HIGH SCHOOL – RENOVATIONS, FIELD WORK, ROOFING AND EXTERIOR BATHROOM BUILDING

NAME OF OWNER: Warwick Valley Central School District

A/E PROJECT NO: 05-21-04 and 05-21-06

A. ENGINEER: Eisenbach and Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Phone: 315.735.1916 Fax: 315.735.6365 Email: Jack Eisenbach jeisenbach@erengpc.com John Jouben jjouben@erengpc.com and Angela Correll acorrell@erengpc.com

B. FROM (CO. NAME): MILCON CONSTRUCTION CORPORATION

DATE: MAY 5, 2022

EMAIL/FAX NO. ewojtowicz@milconconstruction.com

CONTACT NAME: Erick

SUBJECT: Clarification

DISCIPLINE/TRADE: Roofing

DWG./SPEC. REFERENCE: Attached

QUESTION:

What is completion time (from-to) for roofing contract and amount per day for liquidated damages.

Do we need to provide consent of surety with bidding documents.

RESPONSE:

Depends upon delivery of materials. If available for 2022, fall 2022. If not summer 2023. No liquidated damages

ENGINEER'S SIGNATURE: _____

DATE: 5.4.22

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