Troy Schools District

RFP #2425-09 - Addendum #2
BP#2B High School Athletics - Phase #2

January 23rd, 2025

Content Included in this Addendum:

Cover Page (1 Page)
Barton Malow Write Up (1 Page)
TMP Architecture Addendum #2 Write-Up (27 Pages)

TOTAL PAGES: 29 Pages

January 23rd, 2025

Troy Schools District – BP#2B High School Athletics Renovations Phase #2

Addendum #2 Bidder Clarifications

A. General Clarifications

- See TMP Architecture Addendum #2 Write-up.

B. Clarifications and Additions to Work Scopes

- **Site Work scope**
  - Added Alternate No 2 (Additional Clarification)
    - Base bid: 6 (20') poles and 100 LF of netting to be provided by the owner and contractor installed at the auxiliary field. Add alternate would be to provide poles and netting and install.

C. RFI Responses

Q: Please clarify in Section 08 3613, if you want a 20G exterior skin and interior? If so, none of the approved manufacturers make that. If you want just exterior, the basis on design should be a 596 not a 591 (that is .015" steel). Please clarify.
A: Provide specified model 591.

Addendum

Date	January 23, 2025
Project Name	Troy School District – Athens High School Athletics & Troy High School Athletics
TMP Project No.	22103D, 22104E
Bid Package No.	02B
Addendum No.	Two (2)

ADDENDUM NO. 1 WAS PREVIOUSLY ISSUED ON JANUARY 14, 2025.

The Bidding Documents are modified, supplemented, or augmented as follows and the Addendum is hereby made a part of the proposed Contract Documents.

The following Drawing(s) and Attachment(s) are issued with this Addendum:

Drawing No(s).:	Athens HS Athletics: C-2.0, C-3.0, L1.02, L1.05
	Troy HS Athletics: A2.1
Attachment(s):	Specification Section(s): 00 0110, 08 3613, 13 3400, 23 3433

Item No.	Specification Changes
SC-1	Refer to Section No. 00 0110 – TABLE OF CONTENTS (reissued): A. Revised “Issued” columns of specs issued as part of this addendum as indicated. B. Added new specification sections issued as part of this addendum as indicated.
SC-2	Refer to Section No. 08 3613 – SECTIONAL DOOR (reissued): A. Revised paragraph 2.02.B as indicated.
SC-3	Refer to Section No. 13 3400 – PRE-CAST CONCRETE STRUCTURE (new): A. Issued new specification section, complete.
SC-4	Refer to Section No. 23 3433 – AIR CURTAINS AND DOOR HEATERS (new): A. Issued new specification section, complete.

22103D – Athens High School Athletics

Item No.	**Civil Drawing Changes**
CD-1	Refer to Drawing No. C2.0 (reissued): A. Added fence demolition between existing building and track as indicated.
CD-2	Refer to Drawing No. C3.0 (reissued): A. Removed fence installation between existing building and track as indicated. B. Added fence installation to corner of existing building as indicated.

Item No.	**Athletic Drawing Changes**
LD-1	Refer to Drawing No. L1.02 (reissued): A. Added additional fencing to close off access to the track near the existing maintenance building as indicated.
LD-2	Refer to Drawing No. L1.05 (reissued): A. Clarified point of connection and water source location for irrigation lines as indicated. B. Revised main line layout to irrigated fields as indicated. C. Adjusted Zone count on JV baseball and softball layout as indicated. D. Added additional quick coupler valves as indicated. E. Added additional sleeving for under pavement locations as indicated.

22104E – Troy High School Athletics

Item No.	**Architectural Drawing Changes**
AD-1	Refer to Drawing No. A2.1 (reissued): A. Added ceiling type ACT1 to Storage Room 102 as indicated.

END OF ADDENDUM NO. 2 - BID PACKAGE NO. 02B

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END OF SECTION

SECTION 08 3613 - SECTIONAL DOORS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Overhead sectional doors, manually operated.
B. Operating hardware and supports.

1.02 REFERENCE STANDARDS

A. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2023.
B. ASTM E330/E330M - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference; 2014 (Reapproved 2021).
C. DASMA 102 - American National Standard Specifications for Sectional Doors; 2018.
D. ITS (DIR) - Directory of Listed Products; Current Edition.
E. UL (DIR) - Online Certifications Directory; Current Edition.

1.03 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
B. Shop Drawings: Indicate opening dimensions and required tolerances, connection details, anchorage spacing, hardware locations, and installation details.
   1. Include plans, elevations, sections, and installation details.
   2. Include diagrams for power, signal, and control wiring.
C. Product Data: Show component construction, anchorage method, and hardware.
D. Verification Samples: Three actual pieces of products in each finish specified, not less than 6 inches square or 6 inches long for linear components.
E. Manufacturer's Qualification Statement.
F. Installer's Qualification Statement.
G. Operation Data: Include normal operation, troubleshooting, and adjusting.
H. Maintenance Data: Include data for motor and transmission, shaft and gearing, lubrication frequency, spare part sources.
I. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

1.04 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum 5 years of documented experience.
B. Installer Qualifications: Company specializing in performing work of type specified and with at least 5 years documented experience.
C. Products Requiring Electrical Connection: Listed and classified by ITS (DIR), UL (DIR), or testing firm acceptable to authorities having jurisdiction, as suitable for purpose specified.

1.05 WARRANTY

A. See Section 01 7800 - Closeout Submittals for warranty requirements.
B. Provide two year manufacturer warranty for defects in workmanship and materials from date of Substantial Completion.
C. Provide 3 year manufacturer warranty against excessive degradation of finish. Include provision for replacement of units with excessive fading, chalking, or flaking.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Basis of Design: Model 591 manufactured by Overhead Door Corp..
B. Other Acceptable Manufacturers - Sectional Doors:

1. C.H.I. Overhead Doors: www.chiohd.com/#sle.
2. Clopay Building Products: www.clopaydoor.com/#sle.
3. Raynor Garage Doors: www.raynor.com/#sle.
4. Wayne-Dalton, a Division of Overhead Door Corporation: www.wayne-dalton.com/#sle.
5. Substitutions: See Section 01 6000 - Product Requirements.

2.02 STEEL DOORS

A. Steel Doors: Flush steel, insulated; standard lift operating style with track and hardware; complying with DASMA 102, Commercial application.
   1. Performance: Withstand positive and negative wind loads equal to 1.5 times design wind loads specified by local code without damage or permanent set, when tested in accordance with ASTM E330/E330M, using 10 second duration of maximum load.
   2. Door Nominal Thickness: 2 inches thick.
   3. Exterior Finish: Factory finished with polyester baked enamel; color as selected from manufacturers standard line.
   4. Manual Operation: Chain hoist.
B. Door Panels: Steel construction; outer steel sheet of ~~20~~ 28 gauge, ~~0.0359~~ 0.015 inch minimum thickness, flush profile; inner steel hot-dipped roll-formed, galvanized sheet ~~of 20 gauge, 0.0359 inch minimum thickness,~~ flat profile; core reinforcement sheet steel roll formed to channel shape, rabbeted weather joints at meeting rails; polyurethane insulation. ****ADD2****

2.03 COMPONENTS

A. Track: Rolled galvanized steel, 0.090 inch minimum thickness; 2 inch wide, continuous one piece per side; galvanized steel mounting brackets 1/4 inch thick.
   1. Track Configuration: As indicated on Drawings.
B. Hinge and Roller Assemblies: Heavy duty hinges and adjustable roller holders of stainless steel; floating hardened steel bearing rollers, located at top and bottom of each panel, each side.
C. Lift Mechanism: Torsion spring on cross head shaft, with braided stainless steel lifting cables.
   1. For Manual Operation: Requiring maximum exertion of 25 lbs force to open.
D. Sill Weatherstripping: Resilient hollow rubber strip, one piece; fitted to bottom of door panel, full length contact.
E. Jamb Weatherstripping: Roll formed aluminum section full height of jamb, fitted with resilient weatherstripping, placed in moderate contact with door panels.
F. Head Weatherstripping: EPDM rubber seal, one piece full length.
G. Panel Joint Weatherstripping: Neoprene foam seal, one piece full length.
H. Lock: Inside side mounted, adjustable keeper, spring activated latch bar with feature to retain in locked or retracted position; interior and exterior handle. Finish to match aluminum door framing.

2.04 MATERIALS

A. Sheet Steel: Hot-dipped galvanized steel sheet, ASTM A653/A653M, with G60/Z180 coating, plain surface.
B. Insulation: Foamed-in-place polyurethane.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that wall openings are ready to receive work and opening dimensions and tolerances are within specified limits.

3.02 INSTALLATION

A. Install door unit assembly in accordance with manufacturer's instructions.
B. Anchor assembly to wall construction and building framing without distortion or stress.

C. Securely brace door tracks suspended from structure. Secure tracks to structural members only.
D. Fit and align door assembly including hardware.
E. Install perimeter trim and closures.
F. Test and adjust controls and safety devices

3.03 TOLERANCES

A. Maximum Variation from Plumb: 1/16 inch.
B. Maximum Variation from Level: 1/16 inch.
C. Longitudinal or Diagonal Warp: Plus or minus 1/8 inch from 10 ft straight edge.
D. Maintain dimensional tolerances and alignment with adjacent work.

3.04 FIELD QUALITY CONTROL

A. See Section 01 4000 - Quality Requirements, for general requirements for field quality control and inspection.
B. Perform the following tests and inspections with the assistance of a factory-authorized service representative:
   1. Operate doors to confirm proper operation and door performance.
   2. Test controls and safety devices.
   3. Prepare field inspection reports.
C. Repair or replace installations where inspections indicate that they do not comply with specified requirements.
D. Reinspect repaired or replaced installations to determine if replaced or repaired door assembly installations comply with specified requirements.

3.05 ADJUSTING

A. Adjust door assembly for smooth operation and full contact with weatherstripping.

3.06 CLEANING

A. Clean doors and frames and glazing.
B. Remove temporary labels and visible markings.

3.07 PROTECTION

A. Protect installed products from damage until Date of Substantial Completion.
B. Do not permit construction traffic through overhead door openings after adjustment and cleaning.

3.08 DEMONSTRATION AND TRAINING

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain sectional doors.

END OF SECTION

SECTION 13 3400 – PRECAST CONCRETE STRUCTURE
****ADD2****

PART 1 – GENERAL

1.1 SUMMARY

A. This Section is a part of the entire set of Contract Documents and shall be coordinated with the applicable provisions of the other parts.

B. Related Sections:
   1. Section 31 2010 Earthwork - Athletics

1.2 SCOPE

A. The work under this section of the specification shall consist of furnishing all labor, materials and equipment to install (2) 8’ x 30’ precast dugout units, (2) 8’x30’ dugout units which include 8’x8’ storage, and (2) 10’ X 12’’ precast storage building units.

B. Dugout and Building units shall be provided by manufacturer with all necessary openings as specified by contractor in conformance with manufacturer’s structural requirements.

1.3 QUALITY ASSURANCE

A. Comply with the provisions of the following codes, specifications, and standards except where more stringent requirements are shown on the drawings or specified herein.
   1. ACI-318-02, “Building Code Requirements for Reinforced Concrete”. Concrete Reinforcing Institute, “Manual of Standard Practice”.
   2. ANSI/ASCE-7-02 “Building Code Requirement for Minimum Design Loads in Buildings and Other Structures”.
   3. Michigan Building Code, current edition.
   4. Concrete Reinforcing Institute, “Manual of Standard Practice”.
   5. Fabricator must be a producer/member of Precast/Prestressed Concrete Institute (PCI) and be certified in categories A1, B1, and C3.
   6. Building fabricator must have a minimum of 5 years experience manufacturing and setting transportable precast concrete buildings.
   7. American Society For Testing Materials (ASTM).

1.4 SUBMITTALS

A. Submit manufacturer’s literature including material description, installation instructions, and cleaning and maintenance instructions.

B. Submit shop drawings: Provide plans, elevations and sections of structure atscale of not less than 1/8 inches per 12 inches, indicating basic dimensions of structure, details of design, including details of any openings, cutouts and accessories required.
   1. Show details of interfaces with work of other trades, including electrical work.

C. Show dimensions, installation and erection details, including all points of connection.

D. Submit copy of standard warranty.

E. Delegated-Design Submittal: Submit engineering calculations for Architects review to comply with performance requirements and design criteria, including analysis data and shop drawings signed and sealed by the qualified professional engineer responsible for their preparation registered in the State of Michigan.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver product to the project site clearly marked for proper identification of components.

B. Deliver hardware materials to the project site in manufacturer’s unopened containers, fully identified with trade name, color, size and type.

C. Store in accordance with manufacturer’s instructions, above ground, and protected from weather, construction activities, and other possible causes of damage or loss.

D. Materials shall be handled at the job site in such a manner so as to prevent damage. All damaged or otherwise unsuitable material, when so ascertained, shall be immediately removed from the job site.

1.6 WARRANTY

A. The manufacturer shall warrant in writing, that the precast concrete structure shall be free of faults or defects in accordance with the general conditions; such warranty shall be for a period of five (5) years. All other appurtenances will carry a one year warranty.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

A. Bids from manufacturers other than companies listed will not be considered unless written approval is obtained a minimum of 10 days prior to date of bid receipt.

B. Easi-Set Buildings as manufactured by a licensed producer:

Design Concrete, Inc. Hamilton, ON (585) 831-0885	Norwalk Concrete Industries Norwalk, OH 44857 (800) 733-3624

2.2 STANDARD DESIGN CRITERIA

A. Standard Size:
1. Dugouts: (2) 8’ deep X 30’ wide and (2) 8’ deep x 30’ wide, includes 8’x8’ storage area.
2. Storage Buildings: (2) 10’ deep X 12’ wide

B. Design Loads:
1. Seismic load performance category ‘C’, Exposure Group III
2. Standard Live Roof Load: 60PSF
3. Standard Floor Load: 250 PSF
4. Standard Wind Load: 130 MPH

C. Roof: Roof panel shall slope from front to back with a minimum of 6” fall. The roof shall extend a minimum of 12 inches beyond both side walls and back wall panel and have a turndown design which extends ½” below the top edge of the wall panels to prevent water migration into the building along top of wall panels. Roof shall have a Broom finish design, non-stained, owner to stain. Roof panel thickness shall have a minimum thickness of 4”, steel reinforced and post-tensioned with a broom finish.

D. Roof, floor, and wall panels shall each be produced as single component monolithic panels. Wall panels shall be set on top of floor panel.

E. Precast concrete floor shall have ½” step-down around the entire perimeter to prevent water migration into the building along the bottom of the wall panels. Floor shall have a 5”minimum thickness, and be post-tensioned and steel reinforced.

2.3 MATERIALS

A. Concrete: Steel-reinforced, 5000 PSI minimum 28-day compressive strength, air-entrained (ASTM C260).

B. Reinforcing Steel: ASTM A615, grade 60 unless otherwise specified.
Welded Wire Fabric: ASTM 185 Grade 65

C. Post-tensioning Strand: 41K Polystrand CP50, 0.50, 270 KSI, 7-wire strand, enclosed within a greased plastic sheath, (ASTM A416). Roof and floor shall each be post-tensioned by a single, continuous tendon. Tendon shall form a substantially rectangular configuration having gently curving corners wherein the positioning of the cable member results in a pattern of one or more loops and a bisecting of the loop(s). The cable member shall start from one corner of the concrete building panel, forming a gentle perimeter loop(s) returning to a point where the cable member entered the concrete building panel. The tendon will then turn 90 degrees and follow the cable member(s) to a point midway along the “Y” axis of the concrete building panel and then turn 90 degrees along the “X” axis of the concrete building panel. This will bisects the concrete building panel and cross the opposite parallel portion of the cable member and exit from an adjacent side of the concrete building panel.

1. If post-tensioning is not used in the roof panel, the following guidelines must be followed to ensure a watertight roof design.
   a. The entire precast concrete roof panel surface must be cleaned and primed with a material that prepares the concrete surface for proper adherence to the coating material.
   b. The entire precast concrete roof panel surface shall be sealed with a 0.045 EPDM continuous membrane cemented to the concrete with a compound designed for this purpose.

D. Caulking: All joints between panels shall be caulked on the exterior and interior surface of the joints. Caulking shall be DOW CORNING 790 silicone sealant or equal. Exterior caulk reveal to be 3/8" x 3/4" deep so that sides of joint are parallel for proper caulk adhesion. Back of the joint to be taped with bond breaking tape to ensure adhesion of caulk to parallel sides of joint and not the back.

E. Panel Connections: All panels shall be securely fastened together with 3/8" thick steel brackets. Steel is to be of structural quality, hot-rolled carbon complying with ASTM A36 and hot dipped galvanized after fabrication. All fasteners to be ½" diameter bolts complying with ASTM A325 for carbon steel bolts. Cast-in anchors used for panel connections to be Dayton-Superior F-63 coil inserts, or equal. All inserts for corner connections must be secured directly to form before casting panels. No floating-in of connection inserts shall be allowed. Wall panels shall be connected to cast-in-place floor slab using expansion anchors providing adequate embedment by manufacturer.

F. Vents: AS REQUIRED - Screened aluminum vents to be cast in rear wall. Vents shall be SUNVENT INDUSTRIES Model FL-164 or equal. AS REQUESTED, provide drainage slots in the back wall for water to drain from building.

2.4 ACCESSORIES

A. Doors and Frames: Shall comply with Steel Door Institute "Recommended Specifications for Standard Steel Doors and Frames" (SDI-100) and as herein specified. All door and frame galvanizing shall be in accordance with ASTM A924 and A653, A60 minimum coating thickness.

1. The buildings shall be equipped with double 3'-0" x 6'-8" x 1-3/4" thick insulated, 18 gauge, metal doors with 16-gauge frames (to meet wall thickness). Doors to have flush top cap. 12 gauge flat astragals shall be applied to the active leaf to protect against the elements or forced opening. Doors and frames shall be factory bonderized and painted with one coat of rust inhibitive primer and one finish coat of enamel paint; color to be BOLT BROWN unless specified otherwise.
2. Doors and frames shall meet SDI standard Level 2, 1¾" heavy duty.
   Approved manufacturers: Republic, Steelcraft, Ceco, Black Mountain, Pioneer, Curries, Mesker, MPI, Door components or equal
   Approved distributor: Integrated Entry Systems

B. Door Hardware:
   1. Pull Handle: Shall meet requirements of ANSI A156.2. Shall be thru bolt attached and constructed of a minimum ¾" diameter stainless pull handle sized 8" center to center with a stainless backer plate, minimum 0.053" on both sides. Approved manufacturers: Design Hardware, Don-Jo, or equal

C. Hinges: Shall comply with ANSI A156.1 and be of the ball bearing, non-removable pin type (3 per door minimum). Hinges shall be 4 ½" x 4 ½" US26D (652) brushed chrome finish. Manufacturer shall provide a lifetime limited warranty. Approved manufacturers: Design Hardware, or equal

D. Deadbolt: Commercial Grade Deadbolt conforming to ANSI 156.5 furnished with a 2 ¼" face plate and a 1" projecting deadbolt with hardened steel pins. Dead bolts shall be UL and ADA approved.

Finish shall be US26D (626) brushed chrome finish. Manufacturer shall provide a lifetime limited warranty. Approved manufacturers: Design Hardware, Dorma, or equal

E. Surface Bolt: 8" Surface bolt UL listed. Finish US26D (626) brushed chrome finish. (2 per inactive leaf). Approved manufacturers: Don-Jo, Design Hardware, or equal

F. Threshold: Bumper Seal type threshold with a maximum 1" rise to prevent water intrusion. Thresholds shall be approved for UL 10B suitable for use with fire doors rated up to three hours. Approved manufacturers: National Guard Products or equal

G. Overhead Door Holder: Heavy duty surface mounted hold open device with hold open/stop angle of 85 to 110 degrees. Construction shall be stainless steel. Finish US32D (630) satin stainless steel finish. Approved manufacturers: ABH, Rockwood, or equal

H. Drip Cap: Aluminum drip cap with minimum projection of 2 ½" shall be furnished. Approved Manufacturers: Design Hardware, National Guard Products, or equal

I. Door Stop: ANSI 156.16 approved wall mounted door stop with keeper constructed of a corrosion resistant cast brass material. Finish US26D (626) brushed chrome finish. Approved manufacturers: Don-Jo, Rockwood, or equal

J. Support Posts: For dugout units, provide a minimum of (4) 4" x 4" steel roof support posts, factory primed and painted.

2.5 FINISHES

A. Interior of Building: Smooth form finish on all interior panel surfaces unless exterior finish is produced using a form liner, then smooth hand-troweled finish.

B. Exterior of Building (Standard): Architectural precast concrete modular unit with split face style finish: Finish must be imprinted in top face of panel while in form using an open grid impression tool. Finished brick size shall be 7 5/8" x 15 5/8" with vertical steel float or light broom finish. Joints between each brick must be 3/8" wide x 3/8" deep. Back of joint shall be concave to simulate a hand-tooled joint. Each brick face shall be coated with the following water-based acrylic, water repellent penetrating concrete stain: 1) Canyon Tone stain by United Coatings, 2) Sherwin Williams (H&C concrete stain) or equal. Stain shall be applied per manufacturer's recommendation. Joints shall be kept substantially free of stain to maintain a gray concrete color.

1. Stain color shall be selected from manufacturer's standard color options.

C. Exterior of Roof: Flat, sloped style finish: Surfaces shall be coated with the following water-based acrylic, water repellent penetrating concrete stain: 1) Canyon Tone stain by United Coatings, 2) Sherwin Williams (H&C concrete stain) or equal. Stain shall be applied per manufacturer's recommendation.

1. Stain color shall be selected from manufacturer's standard color options.

2.5 ELECTRICAL

1. See electrical drawings for all service panels, lighting, receptacles and wiring.
2. All components shall be surface mounted unless noted otherwise.

PART 3 – EXECUTION

3.1 SITE PREPARATION

A. EASI-SET® building shall be field assembled on precast floor system and shall bear fully on a crushed stone base that is at least two feet larger than the length and width of building.

B. Stone shall be a minimum of 4” thick and down to firm subgrade. The vertical soil capacity under stone shall be compacted to have minimum bearing of 1,500 pounds per square foot. Stone shall be 3/8” or smaller and must be screeded level within ¼” in both directions. Stone shall be placed within a perimeter form with flat and level top edge for screeding. Forming material shall remain around stone until after the building is set.

C. The crushed stone base shall be kept within the confines of the soil or perimeter form. Do not allow the base to become unconfined so that it may wash, erode, or otherwise be undermined.

D. Provide positive drainage for the fill, pad or slab as required.

3.2 INSPECTION

A. Prefabricated building contractor must examine the surrounding installation areas and the conditions under which the work is to be performed, and notify the general contractor, in writing, of any conditions detrimental to proper and timely completion of the work. Do not proceed with dugout installation until unsatisfactory conditions have been corrected in a manner acceptable to the prefabricated dugout contractor.

3.3 SITE ACCESS

A. Contractor must provide a level, unobstructed area large enough for a crane and a tractor-trailer to park adjacent to the pad. Crane must be able to place outriggers within 5’-0” of edge of pad; truck and crane must be able to get side by side under their own power. No overhead lines may be within 75’ radius of center of pad. Firm roadbed with turns that allow 65’ lowbed tractor-trailer must be provided directly to site. No building shall be placed closer than 2’-0” to an existing structure unless specifically permitted.

3.4 INSTALLATION

A. Comply with the prefabricated dugout manufacturer’s instructions and recommendations for proper installation procedure.
B. Coordinate with work of stone base trade contractor to confirm correct location and size of building pad for each dugout prior to arrival of each unit on site.
C. Set dugout units plumb, level, and square to prevent warp or rack.

3.3 CLEAN UP AND DISPOSAL

A. The contractor shall remove from site all equipment, materials, and debris resulting from construction work, including this section. Restore area to a condition acceptable by the Landscape Architect. All work shall be complete and ready for use at the time of the final acceptance.

END OF SECTION

SECTION 23 3433 - AIR CURTAINS AND DOOR HEATERS

****ADD2****

PART 1 GENERAL

1.01 RELATED DOCUMENTS

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

B. Related Sections include the following:

1. Division 20 Section “Mechanical General Requirements.”
2. Division 20 Section “Basic Mechanical Materials and Methods.”

1.02 ACTION SUBMITTALS

A. Product Data: Include rated capacities, operating characteristics, furnished specialties, and accessories for each unit.

1.03 INFORMATIONAL SUBMITTALS

A. Coordination Drawings: Plans and details drawn to scale and coordinating penetrations of exterior walls.

B. Samples for Initial Selection: For units with factory-applied color finishes.

1.04 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For air curtains to include in operation and maintenance manuals.

B. Warranties: Special warranties specified in this Section.

1.05 QUALITY ASSURANCE

A. Product Options: Drawings indicate size, profiles, and dimensional requirements of air curtains and are based on the specific product indicated. Refer to Division 01 Section "Product Requirements."

B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a NRTL acceptable to authorities having jurisdiction, and marked for intended use.

C. Comply with AMCA 220, "Test Methods for Air Curtain Units," for airflow, outlet velocity, and power consumption.

D. Comply with AMCA 300, “Reverberant Room Method for Sound Testing of Fans.”

E. Comply with NSF 37, "Air Curtains for Entranceways in Food and Food Service Establishments."

1.06 COORDINATION

A. Coordinate layout and installation of air curtains and suspension system components with other construction, including light fixtures, fire-suppression-system components, and partition assemblies.

B. Coordinate installation of wall penetrations and louvers. These items are specified in Division 08 Section "Louvers and Vents."

PART 2 PRODUCTS

2.01 AIR CURTAINS (UNHEATED)

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Applied Air; a Mestek Company; King Air Curtains.
2. Berner International Corp.
3. Mars Air Systems.

B. Housing Materials: Minimum 14-gage, electroplated-zinc steel with welded construction and polyester-coated finish.

C. Mounting Brackets: Steel, for wall mounting.

D. Intake Louvers: Integral part of the housing, mechanically field adjustable and capable of reducing air-outlet velocity by 60 percent with louver in totally closed position.

E. Discharge Nozzle: Integral part of the housing, containing adjustable air-directional vanes with 20 -degree sweep front to back.

F. Fans: Painted steel, centrifugal, forward curved, double width, double inlet; statically and dynamically balanced.

G. Fan Drives: Belt, equipped with belt guards and adjustable sheaves and pulleys for adjusting air-outlet velocity.

H. Motor Type: Resiliently mounted, continuous duty, totally enclosed, air over, with integral thermal-overload protection.

1. Bearings: Permanently sealed, lifetime, prelubricated, ball bearings.
2. Disconnect: Internal power cord with plug and receptacle.

2.02 FILTERS

A. Washable Panel Filters: Removable, stainless-steel, baffle-type filters with spring-loaded fastening; with minimum 0.0781-inch- thick, stainless-steel filter frame.

2.03 ACCESSORIES

A. Start-Stop, Push-Button Switch: Manually activates and deactivates air curtain.

B. Mounting Brackets: Adjustable mounting brackets for drum-type roll-up doors.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine areas and conditions where air curtains will be installed for compliance with requirements for installation tolerances and other conditions affecting performance.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

A. Install air curtains with clearance for equipment service and maintenance.

3.03 CONNECTIONS

A. Ground equipment according to Division 26 Section "Grounding and Bonding."

B. Connect wiring according to Division 26 Section "Conductors and Cables."

3.04 FIELD QUALITY CONTROL

A. Perform the following field tests and inspections and prepare test reports:

1. After installing air curtains completely, perform visual and mechanical check of individual components.
2. After electrical circuitry has been energized, start unit to confirm motor rotation and unit operation. Certify compliance with test parameters.
3. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

B. Repair or replace malfunctioning units and retest as specified above.

3.05 ADJUSTING

A. Adjust motor and fan speed to achieve specified airflow.

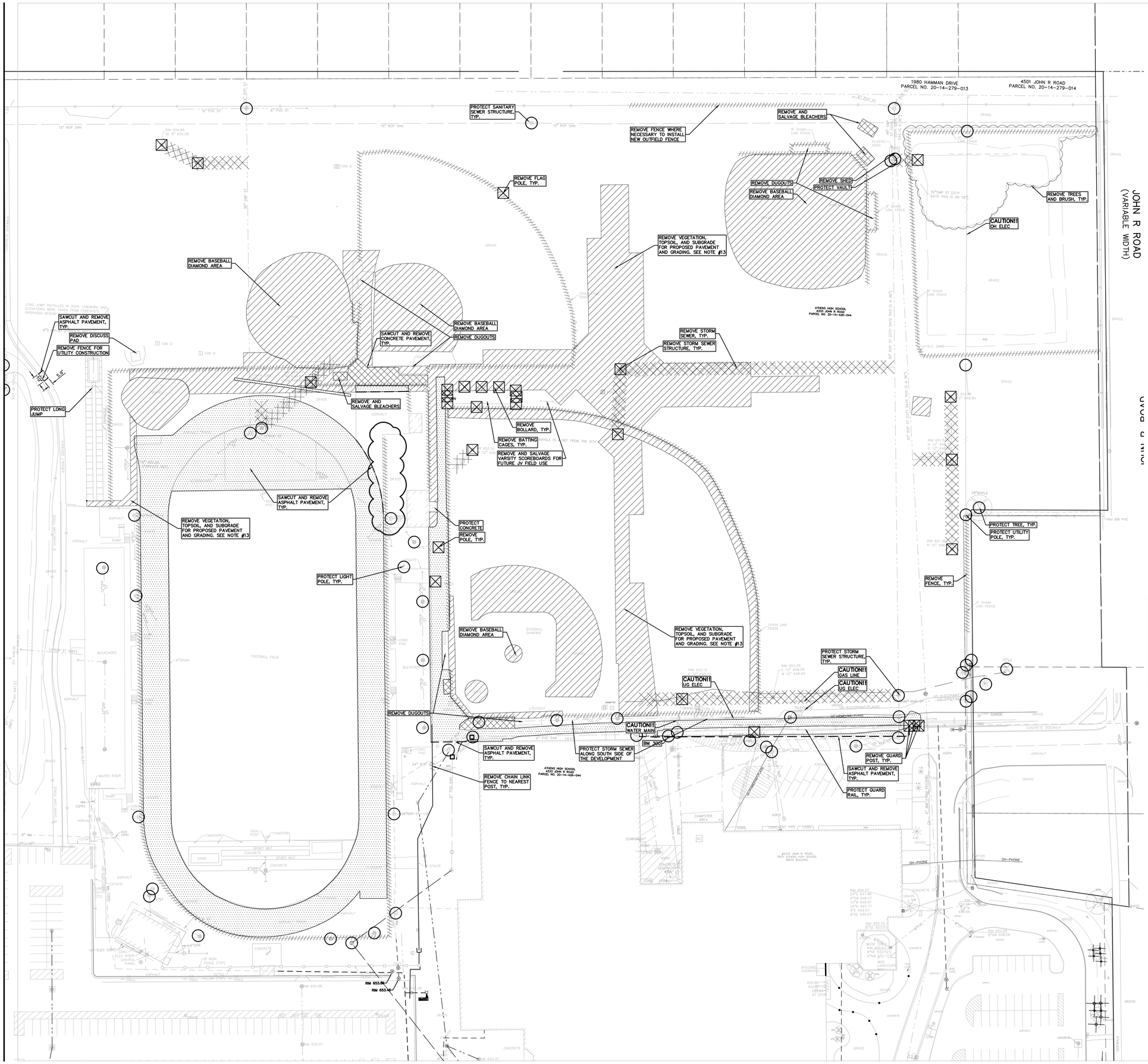
B. Adjust discharge louver and dampers to regulate airflow.

C. Adjust air-directional vanes.

3.06 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain air curtains.

END OF SECTION



DEMOLITION LEGEND:

ITEM TO BE PROTECTED	○
ITEM TO BE REMOVED	⊠
CURB/FENCE REMOVAL	//////////
CONCRETE PAVEMENT AND SIDEWALK REMOVAL	▨
AREA OR ITEMS TO BE REMOVED	▨
UTILITY REMOVAL	▨
ABANDON UTILITY	••••••••••
ASPHALT REMOVAL	▨
TREE REMOVAL	✕
SAWCUT LINE	— — —

GENERAL DEMOLITION NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT:

1. ALL MATERIAL TO BE REMOVED, WHETHER SPECIFICALLY NOTED IN THE PLANS OR NOT, SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF OFF-SITE IN A LEGAL MANNER. NO ON-SITE BURY OR BURN PITS SHALL BE ALLOWED.
2. ALL DEMOLITION WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES.
3. STAGING/PHASING OF DEMOLITION AND CONSTRUCTION IS TO BE COORDINATED WITH THE OWNER AND THE CONTRACTOR PRIOR TO CONSTRUCTION.
4. SPECIFIC DEMOLITION ITEMS HAVE BEEN INDICATED ON THE PLANS AS A GUIDE TO THE GENERAL SCOPE OF THE WORK. IT IS INTENDED THAT THESE ITEMS SHALL BE COMPLETELY REMOVED BY THE CONTRACTOR ABOVE AND BELOW GROUND, UNLESS SPECIFICALLY NOTED OTHERWISE, AND THAT DEMOLITION WILL INCLUDE BUT WILL NOT NECESSARILY BE LIMITED TO THESE ITEMS. CONTRACTOR SHALL VISIT SITE TO VERIFY EXISTING CONDITIONS AND EXTENTS OF THE DEMOLITION THAT WILL BE REQUIRED PRIOR TO SUBMITTING A BID.
5. REMOVE ALL STRUCTURES DESIGNATED FOR REMOVAL ACCORDING TO THE DEMOLITION PLAN. THIS INCLUDES FOUNDATIONS, CONCRETE, ASPHALT, TREES, ETC.
6. THE CONTRACTOR SHALL, AS A MINIMUM, PROVIDE TREE PROTECTION FENCING AROUND EXISTING TREES TO BE SAVED THAT ARE WITHIN 15 FEET OF CONSTRUCTION ACTIVITIES AND AS INDICATED IN THE PLANS OR PER LOCAL AGENCY REQUIREMENTS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP, NOISE, DUST CONTROL, STREET SWEEPING AND HOURS OF OPERATION IN ACCORDANCE WITH THE LOCAL CODES.
8. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES, SIGNAGE, MARKINGS, LIGHTS AND OTHER TRAFFIC CONTROL DEVICES TO PROTECT THE WORK ZONE AND SAFELY MAINTAIN TRAFFIC PER AGENCY REQUIREMENTS AND IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
9. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF SIGNS AND SUPPORTS WITHIN THE WORK AREA, AS NECESSARY TO FACILITATE CONSTRUCTION. SIGNS SHALL BE PROTECTED OR STOCKPILED FOR REUSE AS SPECIFIED IN THE PLANS OR AS REQUIRED BY THE AGENCY HAVING JURISDICTION. THE CONTRACTOR SHALL REPLACE ANY DAMAGED SIGNS AND SUPPORTS AT NO ADDITIONAL COST TO OWNER.
10. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES TO CONFIRM THAT UTILITY LEADS HAVE BEEN TAKEN OUT OF SERVICE PRIOR TO DEMOLITION.
11. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE 811/ONE CALL UTILITY LOCATING CENTER, PRIVATE UTILITY LOCATOR, THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
12. CONTRACTOR SHALL REFER TO THE "REPORT ON GEOTECHNICAL INVESTIGATION" PREPARED BY G2 CONSULTING GROUP DATED 11/7/2024 AND "REPORT ON GEOTECHINCAL INVESTIGATION" PREPARED BY G2 CONSULTING GROUP DATED 11/24/2024.
13. TOPSOIL REMOVED DURING DEMOLITION DEMOLITION/MASS GRADING OPERATIONS AS DEEMED ACCEPTABLE BY ENGINEER, 3RD PARTY TESTING COMPANY, AND/OR OWNER TO BE STOCKPILED ON SITE AND REUSED FOR RESTORATION AREAS.

DEMOLITION QUANTITIES:

REMOVE ASPHALT	68,629 SF
SAWCUT PAVEMENT	528 LF
REMOVE DUGOUTS	6 EA
REMOVE GUARD POST	13 EA
REMOVE VEGETATION, TOPSOIL, AND SUBGRADE	50,108 SF
REMOVE FENCE	5,182 LF
REMOVE FLAG POLE	1 EA
REMOVE GRAVEL	56,930 SF
REMOVE STORM SEWER PIPE	1,158 LF
REMOVE STORM STRUCTURES	12 EA
REMOVE SHED	1 EA

ALLOWANCE:

REMOVE STORM SEWER PIPE	200 LF

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REGISTRATION SEAL

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CONSULTANT

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PROJECT TITLE

Athens High School Athletic Fields Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE

DEMOLITION PLAN

ISSUE DATES

01-23-2025	ADDENDUM NO. 2
01-14-2025	ADDENDUM NO. 1
12-10-2024	CONSTRUCTION DOCUMENTS

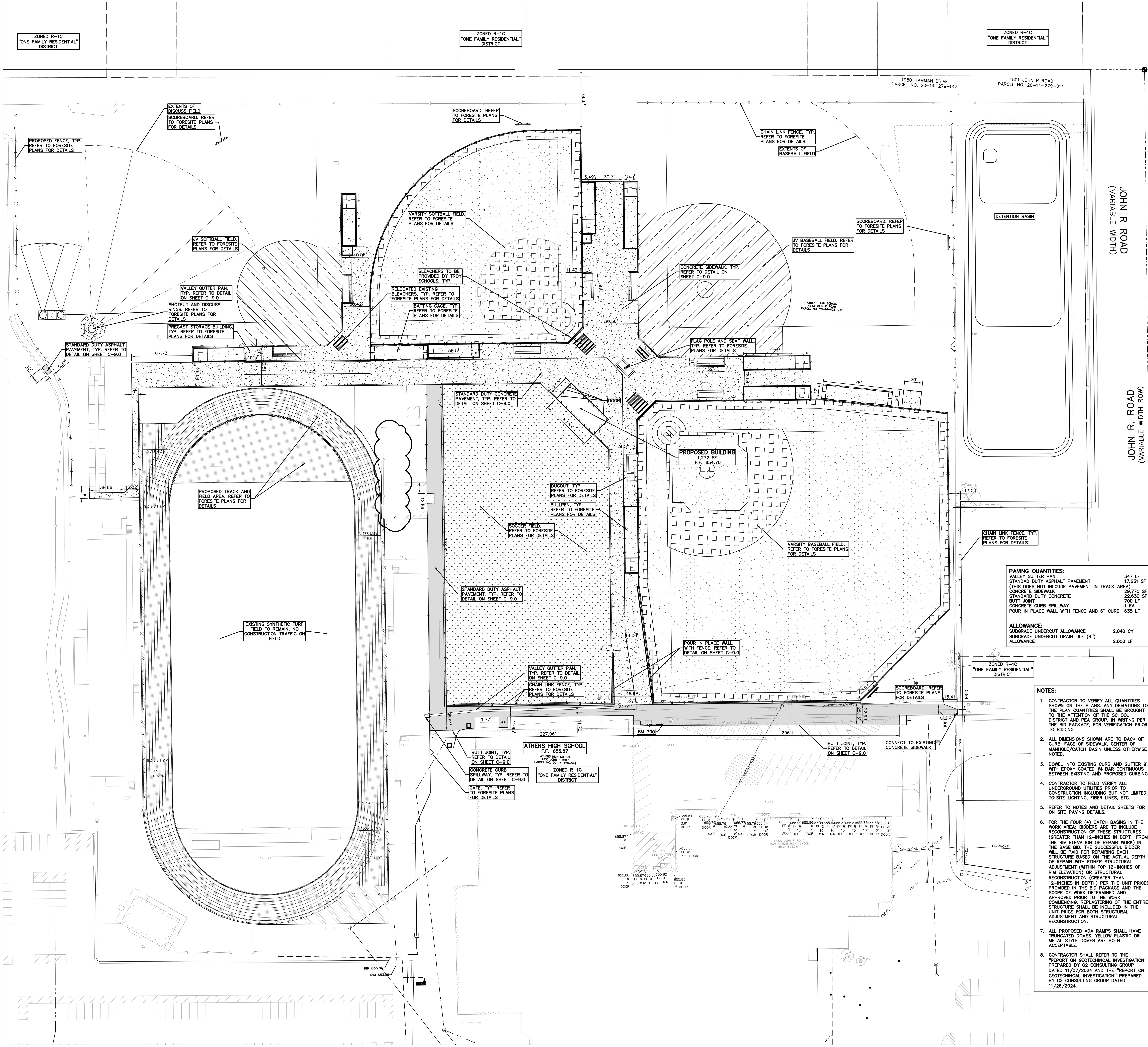
DATE:	ISSUED FOR:
DRAWN	JW
CHECKED	TD
APPROVED	TD

PROJECT NO.

22103D

DRAWING NO.

C-2.0



LEGEND:

- CONCRETE CURB AND GUTTER
- REVERSE GUTTER PAN
- SETBACK LINE
- SIGN
- LIGHTPOLE
- FENCE
- GUARD RAIL
- STANDARD DUTY ASPHALT
- HEAVY DUTY ASPHALT
- ALL-WEATHER SURFACE OVER STANDARD DUTY ASPHALT PAVEMENT
- ALL-WEATHER SURFACE STANDARD DUTY CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- HEAVY DUTY CONCRETE PAVEMENT
- TOPSOIL AND SOD
- TOPSOIL AND SEED
- CRUSHED LIMESTONE ATHLETIC MEAL
- CRUSHER DUST
- SYNTHETIC TURF

REFER TO FORESITE PLANS FOR HATCHING DETAILS AND INFO

PAVEMENT PREPARATION NOTES:

1. PAVEMENT PREPARATION SHALL FOLLOW THE PROCESS SUMMARIZED BELOW:

1.1. AS PART OF THE PAVEMENT REMOVAL, REMOVE THE EXISTING PAVEMENT AND ANY AGGREGATE BASE REQUIRED FOR THE PROPOSED THICKNESS OF ASPHALT/CONCRETE PAVEMENT TO BE PLACED. ANY EXISTING BASE MATERIAL REMOVED TO ACHIEVE THIS ELEVATION WILL BE PART OF THE EARTHWORKS FOR THE PAVING OPERATION, WILL NOT BE PAID FOR SEPARATELY AND/OR CONSIDERED PART OF THE SUBGRADE UNDERCUTTING PAY ITEM AND WILL BE INCLUDED IN THE BASE BID FOR THE WORK.

1.2. ANY OF THE EXISTING AGGREGATE BASE REMOVED TO ACHIEVE THE THICKNESS OF THE PROPOSED PAVEMENT, AS DESCRIBED IN ITEM 1.1, AND DEEMED ACCEPTABLE BY A QUALIFIED ENGINEERING TECHNICIAN SHALL BE STOCKPILED FOR RE-USE IN THE PAVEMENT OPERATION.

1.3. PROOF ROLL EXISTING BASE AND SUBGRADE PER PLANS, SPECIFICATIONS AND GEOTECH REPORT.

1.4. DETERMINE AREAS THAT FAIL THE PROOF ROLL. UNDERCUTS SHALL BE EVALUATED BY A QUALIFIED ENGINEERING TECHNICIAN TO DETERMINE IF SUBGRADE STABILIZATION IS NECESSARY. DRAIN TILE SHALL BE PLACED WITHIN ANY UNDERCUT AREA AND CONNECTED TO THE CLOSEST CATCH BASIN TO PREVENT GROUNDWATER FROM POOLING WITHIN THE GRANULAR SOILS IN UNDERCUTS AND CREATING "BATHTUBS" IN THE COHESIVE SOILS.

1.5. TO MINIMIZE INSTABILITY AND UNDERCUTS, THE AGGREGATE BASE SHALL NOT BE LEFT EXPOSED TO PRECIPITATION AND CONSTRUCTION OPERATIONS AND SHOULD BE PERFORMED DURING THE SUMMER MONTHS TO ENSURE DRY, WARM, WEATHER. ADDITIONALLY, THE SUBGRADE MAY BECOME UNSTABLE UNDER REPEATED LOADING OF CONSTRUCTION TRAFFIC; THEREFORE, CONSTRUCTION EQUIPMENT SHOULD BE LIMITED ON THE EXPOSED SUBGRADE.

1.6. BACKFILL THE INITIAL PORTION OF THE UNDERCUT WITH THE SALVAGED AGGREGATE BASE AND THEN COMPLETE THE BACKFILL PROCESS WITH IMPORTED MDOT 21AA CRUSHED LIMESTONE AGGREGATE PER THE PLANS, SPECIFICATIONS AND GEOTECH REPORT.

2. UNDERCUT SHALL BE EVALUATED BY A QUALIFIED ENGINEERING TECHNICIAN TO DETERMINE IF SUBGRADE STABILIZATION IS NECESSARY. UNDERCUT EXCAVATIONS SHALL BE BACKFILLED WITH MDOT 21AA DENSE GRADED AGGREGATE PLACED IN AN ENGINEERED MANNER. LIFT THICKNESS SHALL NOT EXCEED 9 INCHES. THE USE OF TRI-AXIAL GEOGRID MAY BE USED TO REDUCE UNDERCUT DEPTHS, AS APPROVED BY THE DISTRICT AND PER THE UNIT PRICE PROVIDED WITH THE CONTRACTORS BID.
2. ALL ENGINEERED FILL SHALL BE COMPACTED TO A DENSITY OF AT LEAST 95 PERCENT OF THE MAXIMUM DENSITY DETERMINED BY THE MODIFIED PROCTOR (ASTM D1557) METHOD OF TESTING. ALL ENGINEERED FILL MATERIAL SHALL BE PLACED AND COMPACTED AT APPROXIMATELY THE OPTIMUM MOIUSTURE CONTENT. FROZEN MATERIAL SHALL NOT BE USED AS FILL, NOR SHOULD FILL BE PLACED ON FROZEN SUBGRADE.
3. THE QUANTITY FOR 'UNDERCUT' FOR EACH SITE SHALL BE INCLUDED IN THE BASE BID. THIS ITEM IS CONSIDERED AN ALLOWANCE AND FINAL PAYMENT WILL BE BASED ON THE ACTUAL VOLUME OF COMPACTED IN PLACE STONE PER THE UNIT PRICE PROVIDED IN THE BID PACKAGE.
4. UNDERCUT DRAIN TILE SHALL BE EVALUATED BY A QUALIFIED ENGINEERING TECHNICIAN TO DETERMINE IF SUBGRADE STABILIZATION IS NECESSARY. DRAIN TILE SHALL BE PLACED WITHIN ANY UNDERCUT AREA AND CONNECTED TO THE CLOSEST CATCH BASIN TO PREVENT GROUNDWATER FROM POOLING WITHIN THE GRANULAR SOILS IN UNDERCUTS AND CREATING "BATHTUBS" IN THE COHESIVE SOILS.
5. THE QUANTITY FOR 'UNDERCUT DRAIN TILE (4")' FOR EACH SITE SHALL BE INCLUDED IN THE BASE BID. THIS ITEM IS CONSIDERED AN ALLOWANCE AND FINAL PAYMENT WILL BE BASED ON THE ACTUAL FOOTAGE OF COMPACTED IN PLACE STONE PER THE UNIT PRICE PROVIDED IN THE BID PACKAGE.
6. THE IMPORTING, ADDING, FINE GRADING AND COMPACTING ADDITIONAL PAVEMENT AGGREGATE BASE MATERIAL (MDOT 21AA CRUSHED LIMESTONE) REQUIRED TO ACHIEVE THE PROPOSED TOP OF BASE ELEVATIONS AND PRIOR TO PLACING THE ASPHALT PAVEMENT WILL BE EVALUATED BY A QUALIFIED ENGINEERING TECHNICIAN TO DETERMINE THE VOLUME OF ADDITIONAL MATERIAL REQUIRED PER THE PROJECT PLANS.
7. THE QUANTITY FOR IMPORTING, ADDING, FINE GRADING AND COMPACTING ADDITIONAL PAVEMENT AGGREGATE BASE MATERIAL (MDOT 21AA CRUSHED LIMESTONE) REQUIRED TO ACHIEVE THE PROPOSED TOP OF BASE ELEVATIONS AND PRIOR TO PLACING THE ASPHALT PAVEMENT FOR EACH SITE SHALL BE INCLUDED IN THE BASE BID AND THE EARTHWORK CALCULATIONS COMPLETED BY THE CONTRACTOR DURING THE BIDDING PROCESS. AS PART OF THE EARTHWORK CALCULATIONS, THE CONTRACTOR SHALL ASSUME THAT THE VOLUME OF 2" OF MATERIAL ACROSS THE ENTIRE AREA WILL BE REMOVED WITH THE PAVEMENT AND/OR CONSIDERED UN-USABLE BY THE QUALIFIED ENGINEERING TECHNICIAN AND NEED TO BE REPLACED WITH IMPORTED MDOT 21AA CRUSHED LIMESTONE.
8. IF A JOINT PLAN IS NOT PROVIDED IN THE PLANS, THE CONTRACTOR SHALL SUBMIT ONE TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS.

PAVING QUANTITIES:

VALLEY GUTTER PAN	347 LF
STANDAD DUTY ASPHALT PAVEMENT (THIS DOES NOT INLCUDE PAVEMENT IN TRACK AREA)	17,631 SF
CONCRETE SIDEWALK	29,770 SF
STANDARD DUTY CONCRETE	22,630 SF
BUTT JOINT	700 LF
CONCRETE CURB SPILLWAY	1 EA
POUR IN PLACE WALL WITH FENCE AND 6" CURB	635 LF

ALLOWANCE:

SUBGRADE UNDERCUT ALLOWANCE	2,040 CY
SUBGRADE UNDERCUT DRAIN TILE (4") ALLOWANCE	2,000 LF

NOTES:

1. CONTRACTOR TO VERIFY ALL QUANTITIES SHOWN ON THE PLANS. ANY DEVIATIONS TO THE PLAN QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE SCHOOL DISTRICT AND PEA GROUP, IN WRITING PER THE BID PACKAGE, FOR VERIFICATION PRIOR TO BIDDING.
2. ALL DIMENSIONS SHOWN ARE TO BACK OF CURB, FACE OF SIDEWALK, CENTER OF MANHOLE/CATCH BASIN UNLESS OTHERWISE NOTED.
3. DOWEL INTO EXISTING CURB AND GUTTER 9" WITH EPOXY COATED #4 BAR CONTINUOUS BETWEEN EXISTING AND PROPOSED CURBING.
4. CONTRACTOR TO FIELD VERIFY ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION INCLUDING BUT NOT LIMITED TO: SITE LIGHTING, FIBER LINES, ETC.
5. REFER TO NOTES AND DETAIL SHEETS FOR ON SITE PAVING DETAILS.
6. FOR THE FOUR (4) CATCH BASINS IN THE WORK AREA; BIDDERS ARE TO INCLUDE RECONSTRUCTION OF THESE STRUCTURES (GREATER THAN 12-INCHES IN DEPTH FROM THE RIM ELEVATION OF REPAIR WORK) IN THE BASE BID. THE SUCCESSFUL BIDDER WILL BE PAID FOR REPAIRING EACH STRUCTURE BASED ON THE ACTUAL DEPTH OF REPAIR WITH EITHER STRUCTURAL ADJUSTMENT (WITHIN TOP 12-INCHES OF RIM ELEVATION) OR STRUCTURAL RECONSTRUCTION (GREATER THAN 12-INCHES IN DEPTH) PER THE UNIT PRICES PROVIDED IN THE BID PACKAGE AND THE SCOPE OF WORK DETERMINED AND APPROVED PRIOR TO THE WORK COMMENCING. REPLASTERING OF THE ENTIRE STRUCTURE SHALL BE INCLUDED IN THE UNIT PRICE FOR BOTH STRUCTURAL ADJUSTMENT AND STRUCTURAL RECONSTRUCTION.
7. ALL PROPOSED ADA RAMPS SHALL HAVE TRUNCATED DOMES. YELLOW PLASTIC OR METAL STYLE DOMES ARE BOTH ACCEPTABLE.
8. CONTRACTOR SHALL REFER TO THE "REPORT ON GEOTECHINCAL INVESTIGATION" PREPARED BY G2 CONSULTING GROUP DATED 11/07/2024 AND THE "REPORT ON GEOTECHINCAL INVESTIGATION" PREPARED BY G2 CONSULTING GROUP DATED 11/26/2024.

NORTH

0 20 40 80

SCALE: 1" = 40'

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PROJECT TITLE

Athens High School Athletic Fields Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE

DIMENSION AND PAVING PLAN

ISSUE DATES

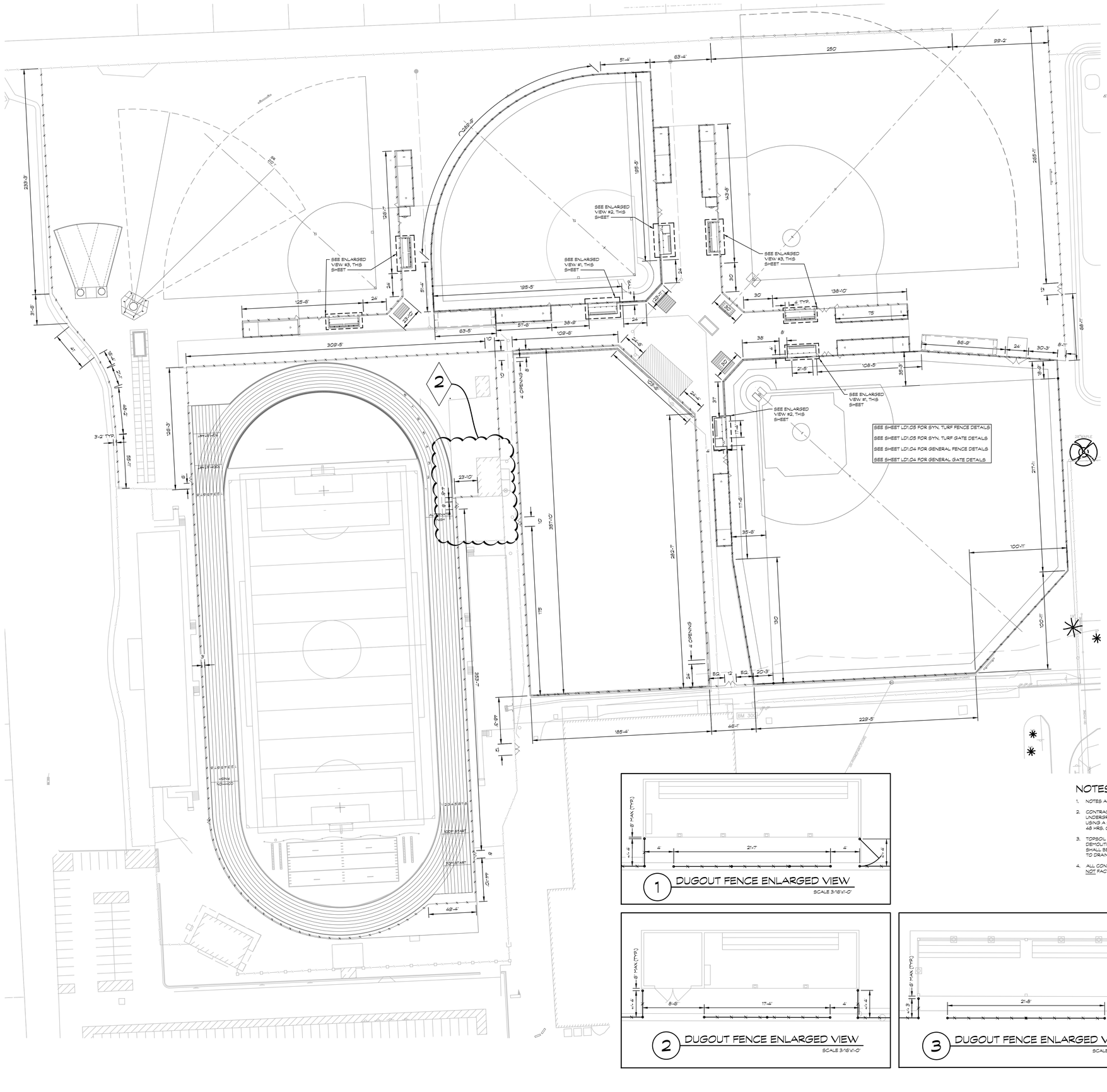
DATE:	ISSUED FOR:
01-23-2025	ADDENDUM NO. 2
01-14-2025	ADDENDUM NO. 1
12-10-2024	CONSTRUCTION DOCUMENTS

DRAWN	JW
CHECKED	TD
APPROVED	TD

PROJECT NO.
22103D

DRAWING NO.
C-3.0

Drawing File: S:\PROJECTS\2023\23-0301 TROY SCHOOLS 2022 BOND\DWG\3_CONSTRUCTION\TROY ATHLETICS\TROY ATHENS - 2025\(C-3.0)DIM-23-0301-AHA 2025.dwg Jan 22, 2025 - 3:15pm



LEGEND

EXISTING	PROPOSED
SPOT ELEVATION	SPOT GRADE
FENCE	TOP OF TRENCH ELEVATION
DRAINAGE STRUCTURE	TOP OF CURB ELEVATION
STORM DRAIN	TOP OF WALL ELEVATION
LIGHT POLE	DRAINAGE SWALE
ELECTRICAL	FENCE - SEE PLANS FOR HT.
WATER	DRAINAGE STRUCTURE
TELEPHONE	12" ATHLETIC STORM PIPE
SANITARY	FLAT DRAIN
GAS	4" PERFORATED DRAINTILE
	6" PERFORATED DRAINTILE
	LIGHT POLE
	ELECTRICAL
	WATER
	TELEPHONE
	IRRIGATION
	LIMITS OF CONSTRUCTION
	ALL-WEATHER SURFACE OVER ATHLETIC VIRGIN ASPHALT (2 LIFTS) OVER 21AA LIMESTONE BASE
	ATHLETIC VIRGIN ASPHALT (2 LIFTS) OVER 21AA LIMESTONE BASE
	ALL-WEATHER SURFACE OVER REINFORCED CONCRETE OVER COMPACTED SAND BASE
	NON-REINFORCED CONCRETE OVER COMPACTED SAND BASE
	REINFORCED CONCRETE OVER 21AA LIMESTONE BASE
	DEMOLITION
	TOPSOIL AND SOD
	TOPSOIL AND SEED
	CRUSHED LIMESTONE ATHLETIC MEAL
	CRUSHER DUST
	SYNTHETIC TURF

1 DUGOUT FENCE ENLARGED VIEW
SCALE 3/16"=1'-0"

2 DUGOUT FENCE ENLARGED VIEW
SCALE 3/16"=1'-0"

3 DUGOUT FENCE ENLARGED VIEW
SCALE 3/16"=1'-0"

NOTES

1. NOTES AND LEGEND SHALL APPLY TO ALL SHEETS AND ALL SITES
2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE AND MAKE EVERY EFFORT TO LOCATE EXISTING UNDERGROUND UTILITIES. THIS SHALL INCLUDE CONSULTING WITH ALL LOCAL UTILITY COMPANIES AND USING A SIGNAL LOCATOR PRIOR TO EXCAVATION. ANY AND ALL REPAIRS SHALL BE COMPLETED WITHIN 48 HRS. OR THE OWNER SHALL HAVE THE REPAIR WORK COMPLETED AT THE CONTRACTORS EXPENSE.
3. TOPSOIL AND SEED ALL AREAS DISTURBED AND NOT OTHERWISE DEVELOPED. ALL WORK I.E. DEMOLITION AND REMOVALS, DRAINAGE WORK, STONE AND ASPHALT, FENCING, TRACK SURFACE, ETC. SHALL BE COMPLETED BY DATE AS NOTED IN CONTRACT DOCUMENTS. ALL LAWN AREAS SHALL SLOPE TO DRAINAGE STRUCTURES.
4. ALL CONTOURS AND SPOT GRADES REFER TO FINISH GRADE OF LAWN, ASPHALT, OR CONCRETE. DO NOT FACTOR IN THE ACRYLIC COATING DEPTH.

0 20 40 80
SCALE: 1"=40'

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REGISTRATION SEAL

CONSULTANT

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PROJECT TITLE
Athens High School Athletic Fields Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE
Athletics Fence Plan

ISSUE DATES

DATE:	ISSUED FOR:
01-23-2025	ADDENDUM NO.2
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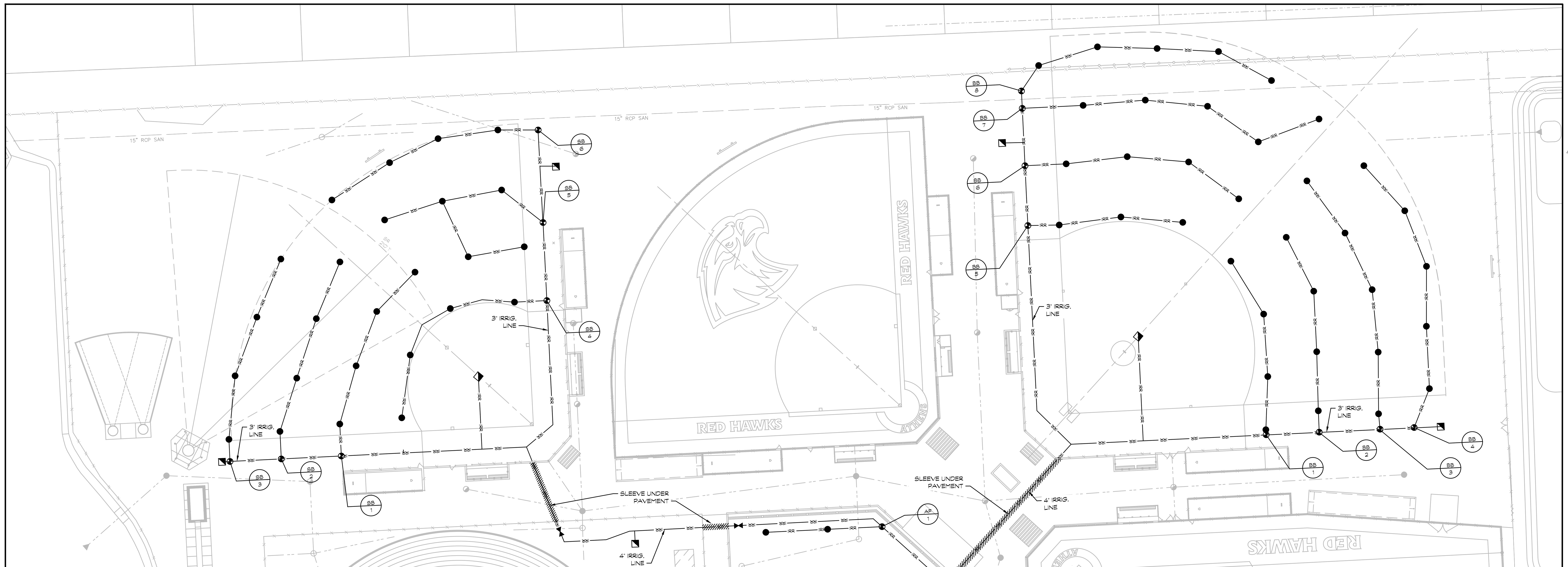
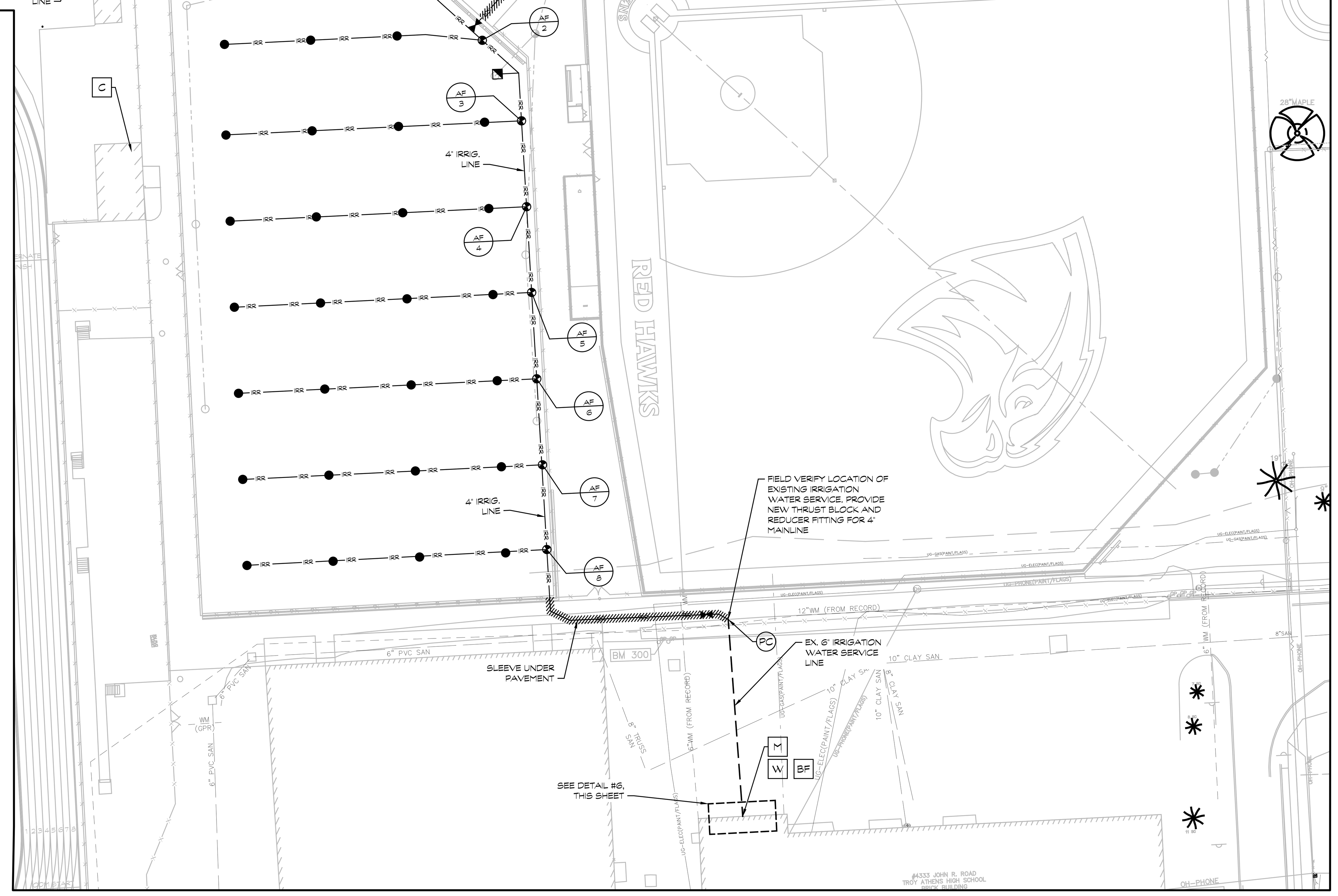
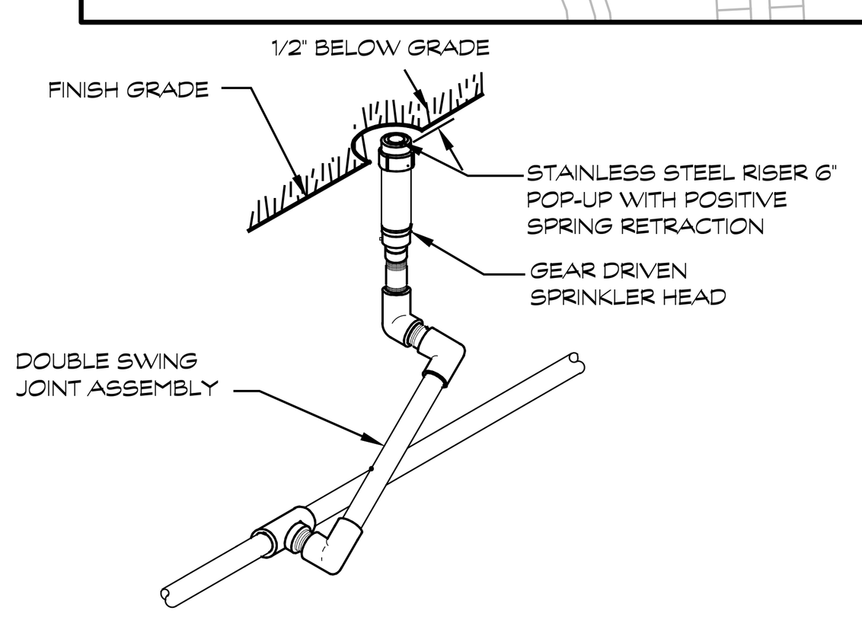
12-10-2024	CONSTRUCTION DOCUMENTS

DRAWN	JB
CHECKED	HD
APPROVED	MDS

PROJECT NO.
22103D

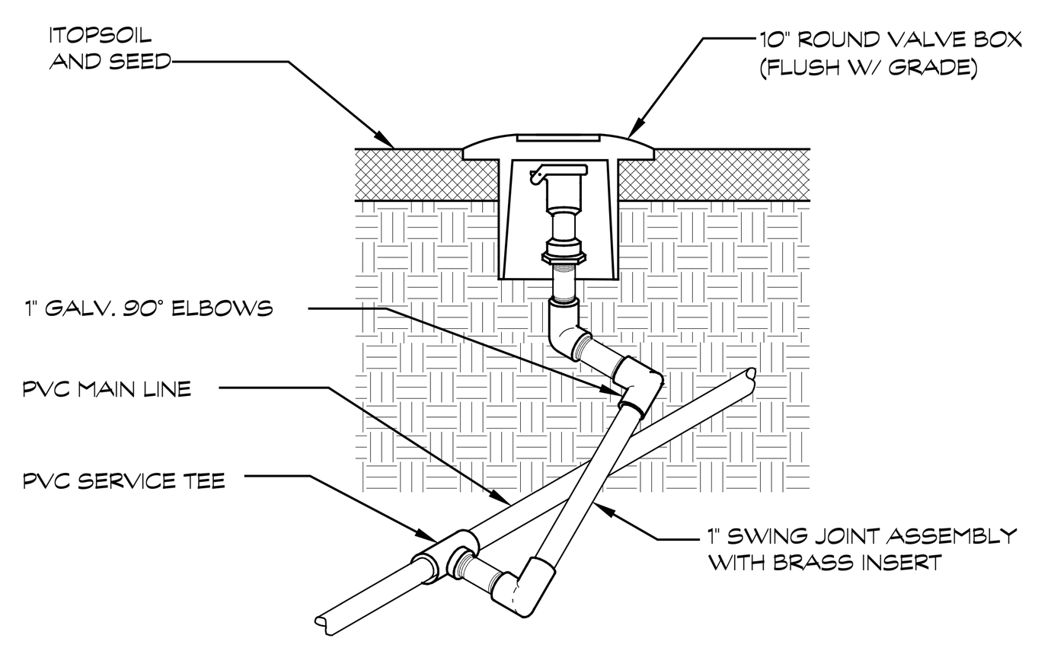
DRAWING NO.
L1.02

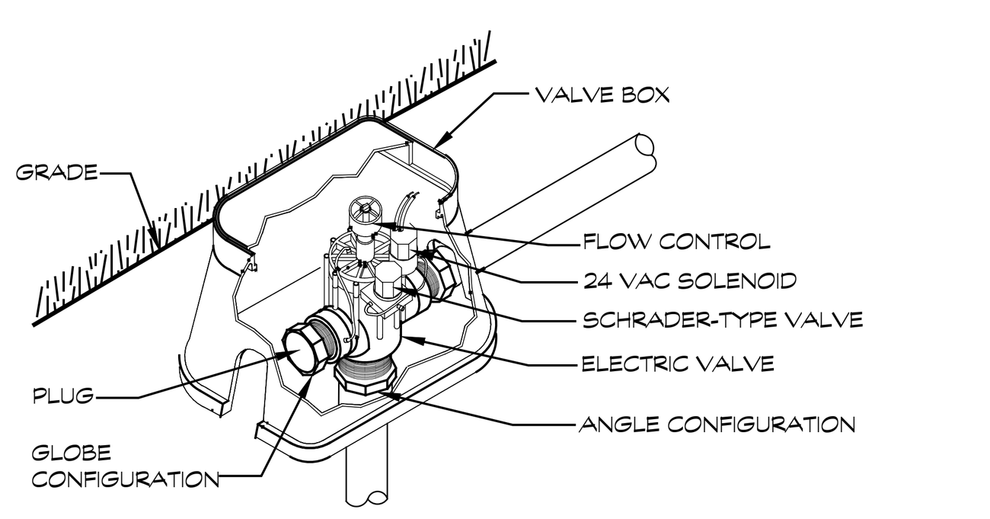


NOTE: RUBBER COVERED FIELD ROTOR WITH 50'-60' RADIUS, 2" EXPOSED SURFACE, CAN BE INSTALLED UP TO 1/2" BELOW GRADE, VANDAL RESISTANT CAP, STAINLESS STEEL ENCASED NOZZLE AND DRIVE ASSEMBLY, CHECK-O-MATIC CAPABLE OF HOLDING UP TO 15' OF HEAD, MAXIMUM OPERATING PRESSURE 150 P.S.I.

1 INSTALLATION DETAIL
N.T.S.

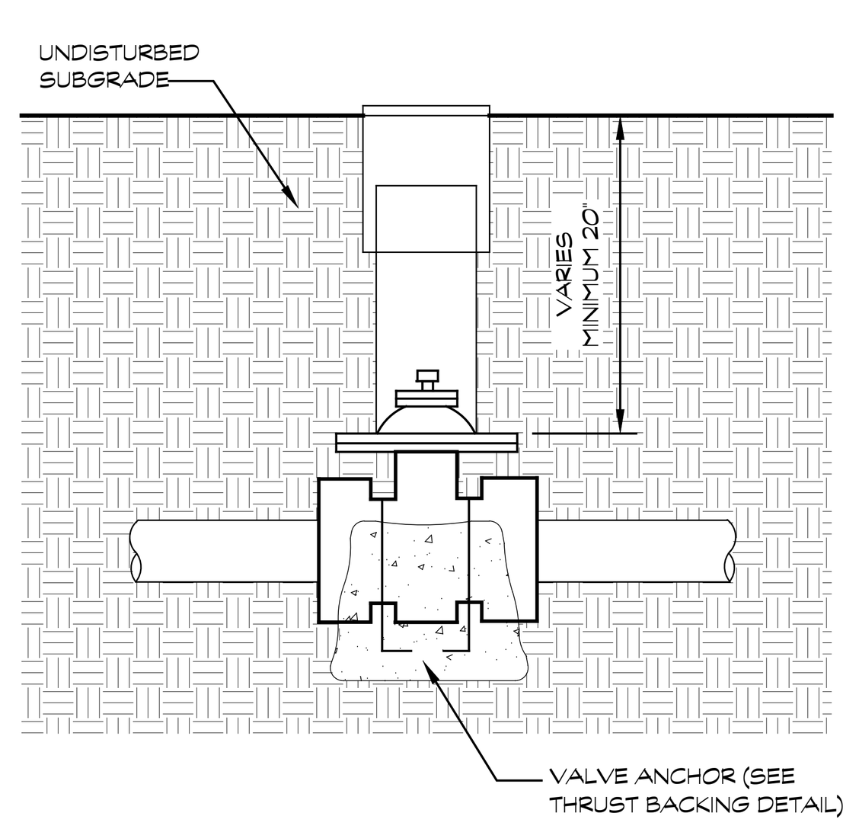


2 QUICK COUPLER VALVE
N.T.S.

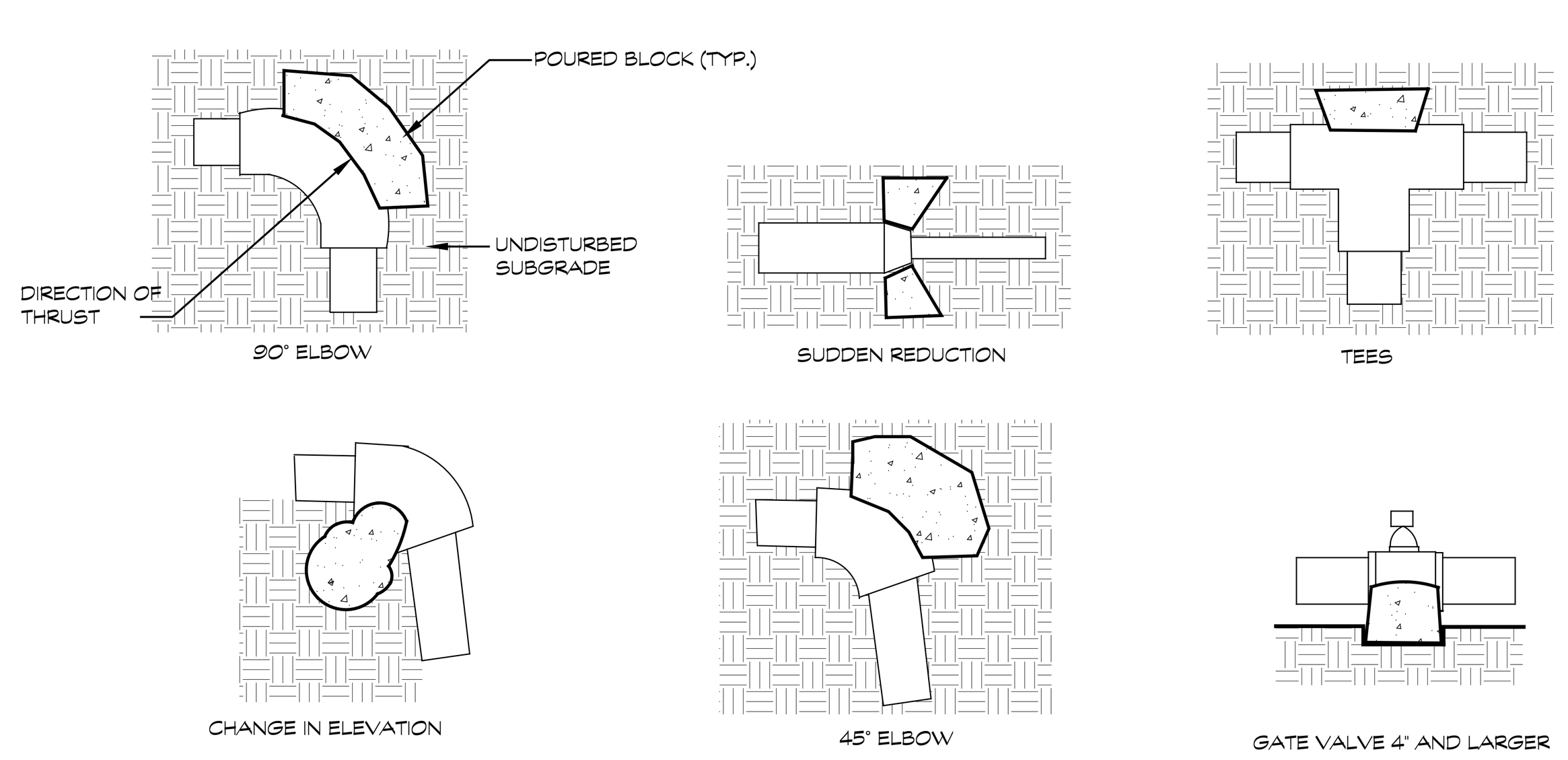


NOTE: REMOTE CONTROL NORMALLY CLOSED VALVE, DURABLE ENGINEERED PLASTIC AND STAINLESS STEEL CONSTRUCTION, GLASS FILLED ZYTEL CAP, SELF-CLEANING STAINLESS STEEL METERING PIN, MANUAL FLOW CONTROL AND BLEED SCREW. STAINLESS STEEL SEAT ON 1 1/2" AND 2" MODELS. PRECISE PRESSURE REGULATING CONTROL WITH REMOVABLE SELF-FLUSHING, 200 MESH, STAINLESS STEEL SCREW.

3 AUTOMATIC PRESSURE REGULATING VALVE DETAIL
N.T.S.



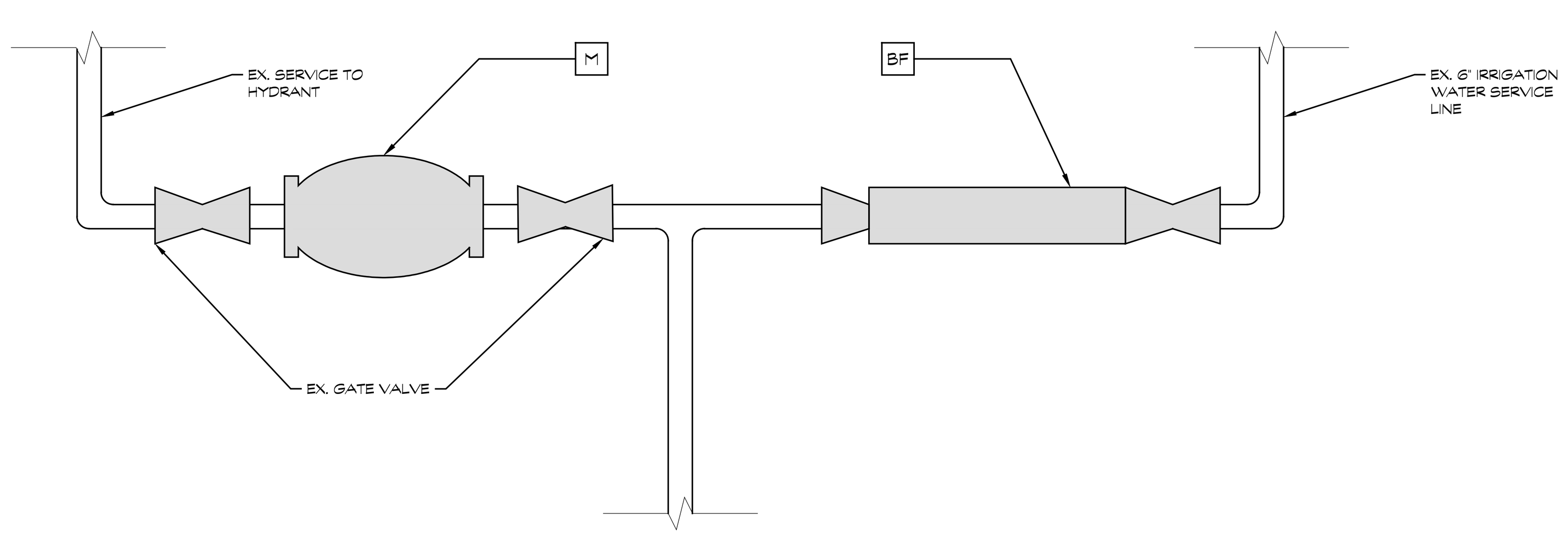
4 GATE VALVE DETAIL
N.T.S.



NOTE: THRUST BACKING IS NEEDED WHEREVER THE PIPELINE:

1. CHANGES DIRECTION AS AT TEES, BENDS, AND CROSSES
2. CHANGES SIZE, AS AT REDUCERS
3. STOPS, AS AT A DEAD END
4. VALVES, AT WHICH THRUST DEVELOPS WHEN CLOSED

5 TYP. THRUST BLOCKS
N.T.S.



6 EXISTING WATER SOURCE ENLARGED VIEW
N.T.S.

LEGEND

EXISTING

- SPOT ELEVATION
- FENCE
- DRAINAGE STRUCTURE
- STORM DRAIN
- LIGHT POLE
- ELECTRICAL
- WATER
- TELEPHONE
- SANITARY
- GAS

PROPOSED

- 100.00 SPOT GRADE
- T/T=XXX.XX TOP OF TRENCH ELEVATION
- T/C=XXX.XX TOP OF CURB ELEVATION
- T/W=XXX.XX TOP OF WALL ELEVATION
- DRAINAGE SWALE
- FENCE - SEE PLANS FOR HT.
- DRAINAGE STRUCTURE
- 12" ATHLETIC STORM PIPE
- FLAT DRAIN
- 4" PERFORATED DRAINTILE
- 6" PERFORATED DRAINTILE
- LIGHT POLE
- ELECTRICAL
- WATER
- TELEPHONE
- IRRIGATION
- LIMITS OF CONSTRUCTION
- ▨ ALL-WEATHER SURFACE OVER ATHLETIC VIRGIN ASPHALT (2 LIFTS) OVER 21AA LIMESTONE BASE
- ▨ ATHLETIC VIRGIN ASPHALT (2 LIFTS) OVER 21AA LIMESTONE BASE
- ▨ ALL-WEATHER SURFACE OVER REINFORCED CONCRETE OVER COMPACTED SAND BASE
- ▨ NON-REINFORCED CONCRETE OVER COMPACTED SAND BASE
- ▨ REINFORCED CONCRETE OVER 21AA LIMESTONE BASE
- ▨ DEMOLITION
- ▨ TOPSOIL AND SOD
- ▨ TOPSOIL AND SEED
- ▨ CRUSHED LIMESTONE ATHLETIC MEAL
- ▨ CRUSHER DUST
- ▨ SYNTHETIC TURF

NORTH

0 20 40 80
SCALE: 1"=40'

IRRIGATION LEGEND:

SYMBOL	DESCRIPTION
●	CONTROL VALVE INSTALL IN 10" ROUND VALVE BOX W/ COVER
⋈	GATE VALVE (DUCTILE IRON, PUSH-ON TYPE, IN VALVE BOX W/ COVER)
●	ROTOR SPRINKLER HEAD 50' RADIUS (360°)
◒	ROTOR SPRINKLER HEAD 50' RADIUS (180°)
◪	QUICK COUPLER VALVE
—IRR—	PVC MAINLINE PIPE (4" UNLESS NOTED OTHERWISE)
—IRR—	PVC LATERAL PIPE (SIZE DETERMINED BY CONTRACTOR)
▨	IRRIGATION SLEEVE (SIZE AS NOTED)
▬	BORING UNDER PAVEMENT
PC	POINT OF CONNECTION
W	EXISTING WATER SOURCE
BF	EXISTING 6" BACKFLOW PREVENTER
C	CONTROLLER HUNTER I2C-800-M
M	EXISTING WATER METER

IRRIGATION NOTES:

1. IRRIGATION HEAD AND PIPING LAYOUT IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL FIELD VERIFY, PROVIDE HEAD TO HEAD COVERAGE WITH CONSIDERATION OF PROPOSED SITE GRADING AND ROUTE IRRIGATION MAIN AND LATERAL LINES FOR MOST ECONOMICAL USE. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE UNLESS NOTED OTHERWISE.
2. FIELD VERIFY WATER SOURCE, POINT OF CONNECTION, CONTROLLER, AND BACKFLOW PREVENTER PRIOR TO INSTALLATION OF ANY IRRIGATION COMPONENTS.
3. IRRIGATION EQUIPMENT AND INSTALLATION METHODS SHALL ADHERE TO LOCAL, STATE, AND FEDERAL CODES.
4. ELECTRICAL FOR CONTROLLER SUPPLIED BY OTHERS. ALL PLUMBING AND ELECTRICAL SHALL BE INSTALLED ACCORDING TO STATE AND LOCAL CODES
5. COORDINATE MOUNTING LOCATION OF IRRIGATION CONTROLLER WITH BUILDING TRADES.
6. COORDINATE PIPE ROUTING WITH REGARDS TO ALL EXISTING OR PROPOSED STORM, ELECTRICAL, SANITARY, WATER OR TECHNOLOGY LINES.

NOTES

1. NOTES AND LEGEND SHALL APPLY TO ALL SHEETS AND ALL SITES
2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE AND MAKE EVERY EFFORT TO LOCATE EXISTING UNDERGROUND UTILITIES. THIS SHALL INCLUDE CONSULTING WITH ALL LOCAL UTILITY COMPANIES AND USING A SIGNAL LOCATOR PRIOR TO EXCAVATION. ANY AND ALL REPAIRS SHALL BE COMPLETED WITHIN 48 HRS. OR THE OWNER SHALL HAVE THE REPAIR WORK COMPLETED AT THE CONTRACTORS EXPENSE.
3. TOPSOIL AND SEED ALL AREAS DISTURBED AND NOT OTHERWISE DEVELOPED. ALL WORK I.E. DEMOLITION AND REMOVALS, DRAINAGE WORK, STONE AND ASPHALT, FENCING, TRACK SURFACE, ETC. SHALL BE COMPLETED BY DATE AS NOTED IN CONTRACT DOCUMENTS. ALL LAWN AREAS SHALL SLOPE TO DRAINAGE STRUCTURES.
4. ALL CONTOURS AND SPOT GRADES REFER TO FINISH GRADE OF LAWN, ASPHALT, OR CONCRETE. DO NOT FACTOR IN THE ACRYLIC COATING DEPTH.

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REGISTRATION SEAL

CONSULTANT

FORESITE DESIGN, INC.
ATHLETIC FACILITY PLANNING | SITE PLANNING CONSULTING | LANDSCAPE ARCHITECTURE
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2485477757

PROJECT TITLE
Athens High School Athletic Fields Bid Package No. 02B

Troy School District
Troy, Michigan

DRAWING TITLE
Athletics Schematic Irrigation Plan

ISSUE DATES

DATE:	ISSUED FOR:
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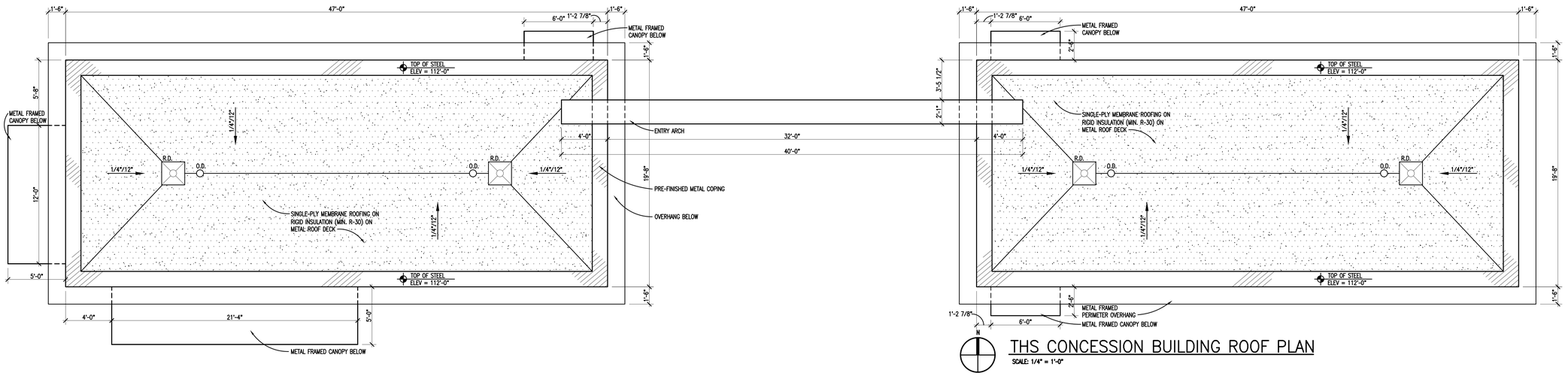
01-23-2025	ADDENDUM NO.2
01-14-2025	ADDENDUM NO.1
12-10-2024	CONSTRUCTION DOCUMENTS

DRAWN	JB
CHECKED	HD
APPROVED	MDS

PROJECT NO.
22103D

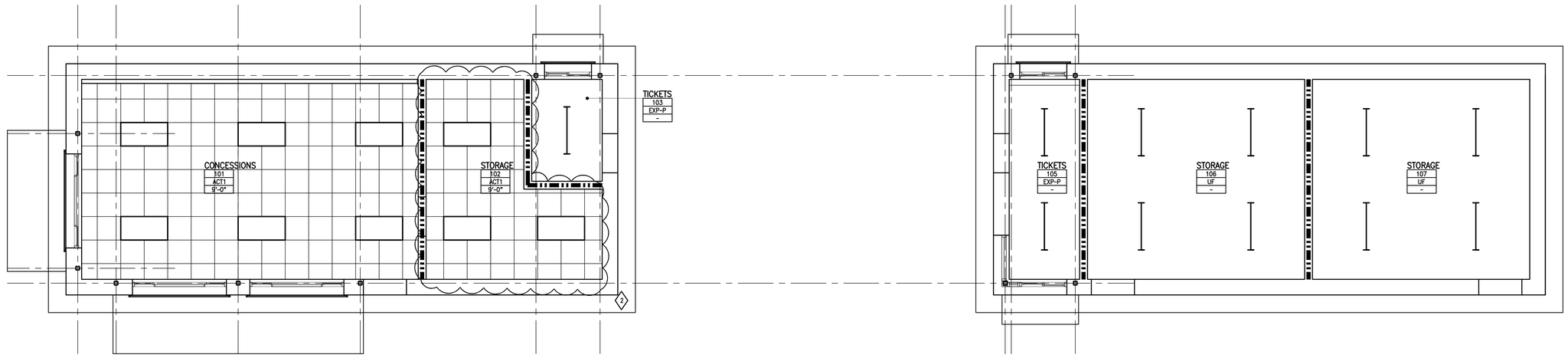
2

DRAWING NO.
L1.05



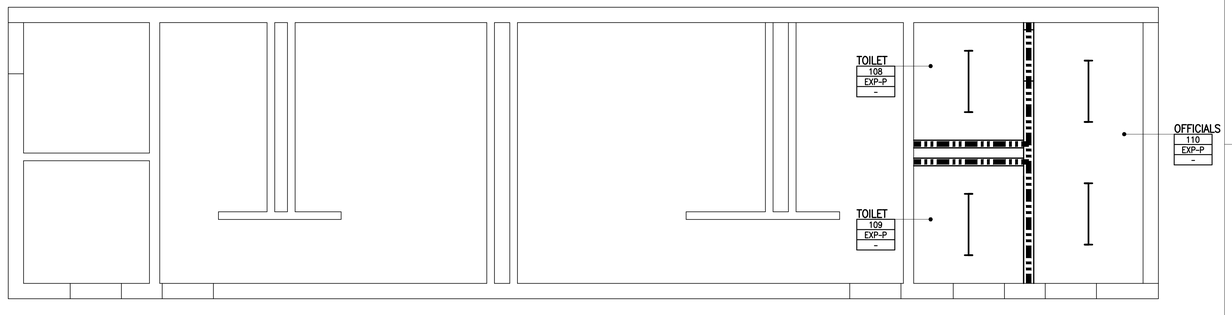
THS CONCESSION BUILDING ROOF PLAN

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



NEW STADIUM ENTRANCE REFLECTED CEILING PLAN

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



EXISTING TOILET BUILDING REFLECTED CEILING PLAN

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

ROOF PLAN LEGEND

- R.D. — ROOF DRAIN (PRIMARY)
- O.D. — ROOF DRAIN (SECONDARY)
- ROOFING ON TAPERED INSULATION (1/4" PER FOOT, MIN.) ON UNIFORM THICKNESS (NON-TAPERED) INSULATION
- (0.0"±) — APPROXIMATE THICKNESS OF TAPERED INSULATION (IN ADDITION TO UNIFORM THICKNESS INSULATION)
- INDICATES PITCH OF ROOF SURFACE TOWARD DRAINS (TAPERED INSULATION OR SADDLES)

ROOF PLAN NOTES

1. SEE MECHANICAL DRAWINGS FOR LOCATIONS OF PLUMBING VENTS (FLASH AS PER S.M.A.C.N.A. AND N.R.C.A. STANDARDS).
2. SEE MECHANICAL DRAWINGS FOR ADDITIONAL OPENINGS, IF ANY, IN NEW AND/OR EXISTING ROOFS. DETAILS OF SIMILAR OPENINGS REFERENCED ON THIS SHEET ARE APPLICABLE.
3. WHERE NEW OPENINGS OCCUR IN EXISTING ROOF AREAS, INSTALL SUPPLEMENTAL STEEL FRAMING UNDER DECK PRIOR TO CUTTING HOLE IN DECK. REPAIR ROOFING AND INSULATION TO 2'-0" (MIN.) AROUND OPENING.
4. WHERE WOOD NAILERS ARE SHOWN IN PLANE OF ROOF INSULATION, CUT NAILERS AS REQUIRED TO MATCH INSULATION THICKNESS.
5. TYPICAL ROOF IS FLEXIBLE SHEET ROOFING ON RIGID INSULATION ON METAL DECK (TAPERED INSULATION AT SADDLES AND ELSEWHERE WHERE INDICATED).
6. TAPERED INSULATION SADDLES/CRICKETS SHALL BE 1/2" PER FOOT MIN.

WALL FIRE RATING LEGEND

ALL WALLS INDICATED WITH LINE TYPES BELOW CONTINUE TO FLOOR OR ROOF STRUCTURE ABOVE - ALL WALLS WITHOUT THESE INDICATIONS EXTEND A MINIMUM OF 4" ABOVE THE HIGHEST ADJACENT CEILING

: NON RATED WALLS TO STRUCTURE ABOVE

GENERAL NOTES

1. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE TYPES. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION PERTAINING TO ELECTRICAL AND MECHANICAL WORK.
2. COORDINATE SIZE AND LOCATION OF ALL ACCESS PANELS WITH TRADE REQUIRING THE SAME. ACCESS PANELS ARE SPECIFIED ARCHITECTURALLY BUT ARE REQUIRED TO BE PROVIDED BY TRADE. SPOT ALL LOCATIONS WITHIN FIXED GYPSUM BOARD CEILINGS AND RECEIVE APPROVAL FROM THE ARCHITECT'S FIELD REPRESENTATIVE BEFORE PLACEMENT.
3. COORDINATE CEILING SUSPENSION SYSTEMS WITH OTHER CEILING SPACE EQUIPMENT SUPPORTS.
4. ALL FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS (ABOVE ACCESSIBLE CEILINGS) SHALL BE MARKED EVERY 30'-0" HORIZONTALLY AND WITHIN 15'-0" OF ENDS OF WALLS: "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS". REFER TO CURRENT BUILDING CODE FOR LETTERING HEIGHT, STROKE AND CONTRAST.
5. ALL GYPSUM BOARD FASCIAE @ SOFFITS, ADJACENT TO LAY-IN CEILINGS, SHALL EXTEND 4" MINIMUM ABOVE LAY-IN CEILINGS.
6. INSTALL CONTROL JOINTS IN GYPSUM BOARD AND METAL STUD-FRAMED PARTITIONS, WALLS, CEILINGS, BULKHEADS, FASCIAE AND SOFFITS IN COMPLIANCE WITH SPECIFICATIONS, AND WITH GENERAL REQUIREMENTS OF ASTM C840. PRIOR TO COMMENCEMENT OF FRAMING INSTALLATION SUBMIT COORDINATION DRAWINGS INDICATING PROPOSED LOCATIONS OF ALL CONTROL JOINTS, AS SPECIFIED.
7. PROVIDE WOOD BLOCKING, ABOVE GYPSUM BOARD CEILINGS, AS REQUIRED FOR MISCELLANEOUS SUSPENDED ITEMS (e.g. CURTAIN TRACKS, WINDOW SHADES, ACOUSTICAL BAFFLES, ETC.)
8. REFER TO DRAWING A___ FOR TYPICAL DETAILS PERTAINING TO WALL TERMINATIONS AT STRUCTURE ABOVE.

FIXTURE LEGEND

- RECESSED TROFFER (2'x4'/ 1'x4')
- INDUSTRIAL FIXTURE
- RECESSED DOWNLIGHT
- EXTERIOR, WALL-MOUNTED L.E.D. FIXTURE (9'-0" A.F.F. TO CENTER)

CEILING LEGEND

ROOM/CEILING TAGS — ROOM NAME AND NUMBER PLUS GENERAL CEILING FINISH AND HEIGHT UNLESS OTHERWISE NOTED CEILING FINISH TAGS.

CEILING FINISH TAG — SPECIFIC FINISH/HEIGHT WHERE VARYING FROM GENERAL ROOM/CEILING TAGS.

CLASSROOM ← ROOM NAME
101 ← ROOM NUMBER
ACT ← CEILING FINISH ABBREVIATION (SEE BELOW) → ALUM
9'-0" ← CEILING HEIGHT (A.F.F.) → 8'-10"

CEILING FINISH ABBREVIATIONS

ACT	ACOUSTICAL LAY-IN CEILING TILE
DAFS	DIRECT APPLIED FINISH SYSTEM
EX	EXISTING
EXP-P	EXPOSED CONSTRUCTION - TO BE PAINTED
GYP-P	GYPSUM BOARD - TO BE PAINTED
GYP-EP	GYPSUM BOARD - TO BE EPOXY PAINTED
UF	UNFINISHED

NOTES:

1. REFER TO FINISH PLANS FOR INFORMATION ON ROOM FINISHES.
2. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION ON MATERIALS AND CONSTRUCTION.
3. WHERE EXPOSED CONSTRUCTION IS INDICATED TO BE PAINTED, THIS SHALL INCLUDE ALL STRUCTURAL MEMBERS, ROOF/FLOOR DECK, DUCTWORK, DIFFUSERS, GRILLES, PIPING, SUSPENDED EQUIPMENT, CONDUITS, ETC. (U.O.N.)

CEILING KEY

- GYPSUM BOARD (PAINTED) OR INTERIOR/EXTERIOR FINISH SYSTEM CEILING/SOFFIT
- 24" x 24" SUSPENDED LAY-IN ACOUSTICAL CEILING
- EXPOSED OR EXISTING CONSTRUCTION TO REMAIN (PAINTED, U.O.N.)

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REGISTRATION SEAL

CONSULTANT

PROJECT TITLE

Troy High School Athletic Fields Bid Package No. 02B

Troy School District Troy, Michigan

DRAWING TITLE

THS Concessions Building Reflected Ceiling Plan & Roof Plan and Existing Toilet Building Reflected Ceiling Plan

ISSUE DATES

DATE:	ISSUED FOR:
01-23-2025	ADDENDUM NO. 2
12-10-2024	CONSTRUCTION DOCUMENTS

DRAWN	DO
CHECKED	JW
APPROVED	DL

PROJECT NO.

22104E

DRAWING NO.

A2.1