

**ADDENDUM
NO. 1**

September 1, 2022

**CROWN POINT HIGH SCHOOL ATHLETIC FIELDS AND SITE
IMPROVEMENTS
Crown Point, IN 46307**

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications, and the Drawings dated August 18, 2021 by Gibraltar Design. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 1-1 through ADD 1-4 and attached Addendum No. 1 from Gibraltar Design dated August 31, 2022 and consisting of 4 pages, added Specification Sections 06 61 00 – Fiberglass Dome and 07 21 27 – Cavity Foamed Insulation, revised Specification Sections 11 68 33 – Athletic Field Equipment and 26 56 68 – Exterior Athletic Lighting, and 24 drawings.

A. SPECIFICATION SECTION 00 00 20 – TABLE OF CONTENTS

1. Add:

Specification Section 06 61 00 – Fiberglass Dome
Specification Section 07 21 27 – Cavity Foamed Insulation

B. SPECIFICATION SECTION 00 31 00 – INDIANA BID FORM

1. Replace:

The Bid Form with the attached revised Bid Form

C. SPECIFICATION SECTION 00 43 50 – SUBCONTRACTORS AND PRODUCTS LIST

Under Division 06 – Wood, Plastics, and Composites

1. Add:

Specification Section 06 61 00 – Fiberglass Dome

Under Division 07 – Thermal and Moisture Protection

1. Add:

Specification Section 07 21 27 – Cavity Foamed Insulation

D. SPECIFICATION SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY

1. BID CATEGORY NO. 1 – SITEWORK/GENERAL TRADES

1. Add:

Specification Section 06 61 00 – Fiberglass Dome

Specification Section 07 21 27 – Cavity Foamed Insulation

E. SPECIFICATION SECTION 01 23 00 – BID ALTERNATES

1. Replace:

The Bid Alternates section with the attached revised Bid Alternates section

CONTRACTOR'S BID FOR PUBLIC WORKS FORM NO. 96

Format (Revised 2013)
(Amended for CPCSC)

**Crown Point High School -
Athletic Fields and Site Improvements**
Crown Point Community School Corporation
Crown Point, IN

PART I

(To be completed for all bids. Please type or print)

Date (month, day, year): _____

BIDDER (Firm) _____

Address _____ P.O. Box _____

City/State/Zip _____

Telephone Number: _____ Email Address: _____

Person to contact regarding this Bid _____

Pursuant to notices given, the undersigned offers to furnish labor and/or materials necessary to complete the public works project of:

Insert Category No. (s) and Name(s)

Of public works project, ***Crown Point High School - Athletic Fields and Site Improvements***, in accordance with Plans and Specifications prepared by ***Gibraltar Design, 9102 N. Meridian St., Suite 300, Indianapolis, IN 46260***, as follows:

BASE BID

For the sum of _____
(Sum in words)

_____ DOLLARS (\$ _____)
(Sum in figures)

The undersigned acknowledges receipt of the following Addenda:

Receipt of Addenda No. (s) _____

PART II

(For projects of \$150,000 or more – IC 36-1-12-4)

These statements to be submitted under oath by each bidder with and as a part of his bid. (Attach additional pages for each section as needed.)

SECTION I EXPERIENCE QUESTIONNAIRE

1. What public works projects has your organization completed for the period of one (1) year prior to the date of the current bid?

Contract Amount	Class of Work	Completion Date	Name and Address of Owner

2. What public works projects are now in process of construction by your organization?

Contract Amount	Class of Work	Completion Date	Name and Address of Owner

3. Have you ever failed to complete any work awarded to you? _____ If so, where and why?

4. List references from private firms for which you have performed work.

SECTION II PLAN AND EQUIPMENT QUESTIONNAIRE

1. Explain your plan or layout for performing proposed Work. (Examples could include a narrative of when you could begin, complete the project, number of workers, etc. and any other information which you believe would enable the governmental unit to consider your bid.)

2. Please list the names and addresses of all subcontractors (i.e. persons or firms outside your own firm who have performed part of the work) that you have used on public works projects during the past five (5) years along with a brief description of the work done by each subcontractor.

3. If you intend to sublet any portion of the work, state the name and addresses of each subcontractor, equipment to be used by the subcontractor, and whether you will required a bond. However, if you are unable to currently provide a listing, please understand a listing must be provided prior to contract approval. Until the completion of the proposed project, you are under a continuing obligation to immediately notify the governmental unit in the event that you subsequently determine that you will use a subcontractor on the proposed project.

4. What equipment do you have available to use for the proposed Project? Any equipment used by subcontractors may also be required to be listed by the governmental unit.

5. Have you into contracts or received offers for all materials which substantiate the prices used in preparing your proposal? If not, please explain the rationale used which corroborate the process listed.

SECTION III CONTRACTOR'S FINANCIAL STATEMENT

Attachment of Bidder's financial statement is mandatory. Any Bid submitted without said financial statement as required by statute shall thereby be rendered invalid. The financial statement provided hereunder to the governing body awarding the Contract must be specific enough in detail so that said governing body can make a proper determination of the Bidder's capability for completing the Project if awarded.

SECTION IV CONTRACTOR NON-COLLUSION AFFIDAVIT

The undersigned Bidder or agent, being duly sworn on oath, says that he has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him, entered into any combination, collusion or agreement with any person relative to the price to be bid by anyone at such letting nor to prevent any person from bidding nor to induce anyone to refrain from bidding, and that this Bid is made without reference to any other bid and without any agreement, understanding or combination with any other person in reference to such bidding.

He further says that no person or persons, firms, or corporations has, have, or will receive directly or indirectly, any rebate, fee, gift, commission, or thing of value on account of such contract.

SECTION 01 23 00 - ALTERNATES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including amended General Conditions and other Division 1 Specification Sections, apply to work of this Section.

1.02 PURPOSE

- A. The Bids for the Alternates described herein are required in order for the Owner to obtain information necessary for the proper consideration of the Project in its entirety.

1.03 ALTERNATES

- A. Definitions: Alternates are defined as alternate products, materials, equipment, installations, or systems for the Work, which may, at Owner's option and under terms established by Instructions to Bidders, be selected and recorded in the Owner-Contractor Agreement to either supplement or displace corresponding basic requirements of Contract Documents. Alternates may or may not substantially change scope and general character of the Work; and must not be confused with "allowances", "unit prices", "change orders", "substitutions", and other similar provisions.

1.04 SCHEDULE OF ALTERNATES

- A. ALTERNATE NO. 1: State the cost to provide a Tennis Platform. **Base Bid:** No Work.
- B. ALTERNATE NO. 2: State the cost to provide plexiglass infill at Tennis Platform guardrail. **Base Bid:** Picket Railing System at Tennis Platform guardrail.
- C. ALTERNATE NO. 3: State the cost to provide a Banner Poles at Varsity Baseball and Softball masonry walls, including all support system. **Base Bid:** No Work.
- D. ALTERNATE NO. 4: State the cost to remove existing asphalt walk and add new concrete walk. **Base Bid:** Grind and resurface asphalt.
- E. ALTERNATE NO. 5: State the cost to provide new infield, backstop, dugouts, bullpens, and fencing at JV Baseball. **Base Bid:** No Work.
- F. ALTERNATE NO. 6: State the cost to provide masonry piers and ornamental fence along walkway south of Varsity Softball. **Base Bid:** All ornamental fence.

- G. ALTERNATE NO. 7: State the cost to grind down 2” and install new 2” topping on Parking Lot east of the Tennis Courts. **Base Bid:** No work.
- H. ALTERNATE NO. 8: State the cost to provide Multi-Purpose Field lighting, power feeds, poles, conduits, etc. as a complete system for the Football Stadium. **Base Bid:** No work.
- I. ALTERNATE NO. 9: State the cost to provide Foul Pole netting system as specified on existing poles. **Base Bid:** No netting system being installed, leaving existing poles intact.
- J. ALTERNATE NO. 10: State the cost to provide JV Baseball and Softball Scoreboards, complete installation, including power, structure, data connections, labor, etc. **Base Bid:** No work.
- K. ALTERNATE NO. 11: State the cost to provide chair style seating at both Varsity Baseball and Softball, provide and install the Preferred Seat, Model #490 Dimensions Chair, complete, as manufactured by Preferred Seating, LLC, Indianapolis, Indiana, low riser mounted. **Base Bid:** The Solera Model as manufactured by Irwin Seating.
- L. ALTERNATE NO. 12: State the cost to provide new Banner Poles along walkways to the Baseball and Softball venues, including all accessories and concrete base. **Base Bid:** No work.

PART 2 - PRODUCTS, PART 3 - EXECUTION (Not Used)

END OF SECTION 01 23 00

ADDENDUM ONE

Addendum One (AD.01) to the drawings and specifications prepared by Gibraltar Design for **Crown Point High School Athletic Fields and Site Improvements** for Crown Point Community School Corporation, Crown Point, Indiana.

All Contractors bidding on this project shall read all of the items covered below and shall comply with all of the requirements as set forth, including any necessary refinements or additions generated by this Addendum and required by the intent of the original contract documents. All Contractors shall acknowledge on their bid form that they have received this Addendum and include the appropriate content of same within their bid proposal.

SPECIFICATIONS

- 1. Specification Section 00 01 10 Table of Contents**
 - A. Add new Specification Sections 06 61 00, Fiberglass Dome, to Division 6 and 07 21 27, Cavity Foamed Insulation, to Division 7 on the Table of Contents.
- 2. Specification Section 06 61 00 Fiberglass Dome**
 - A. Add Specification Section 06 61 00, Fiberglass Dome, included in this Addendum, to the Project Manual.
- 3. Specification Section 07 21 27 Cavity Foamed Insulation**
 - A. Add Specification Section 07 21 27, Cavity Foamed Insulation, included in this Addendum, to the Project Manual.
- 4. Specification Section 11 68 33 Athletic Field Equipment**
 - A. Replace Specification Section 11 68 33 in its entirety with Specification Section 11 68 33 included in this Addendum.
- 5. Specification Section 26 56 68 Exterior Athletic Lighting**
 - A. Replace Specification Section 26 56 68 in its entirety with Specification Section 26 56 68 included in this Addendum.

DRAWINGS

- 6. Sheet C-2.0**
 - A. Disregard plan notes on this sheet. Refer to enlarged site plans on sheets C-2.1 and C-2.2 for plan notes.
- 7. Sheet C-2.1**
 - A. Refer to revised, full-size drawing, included in this Addendum, for revised plan notes as indicated on drawing.

8. Sheets C-2.1A and C-2.1B

- A. Refer to two (2) attached revised full-size drawings, included in this Addendum, for the following revisions:
1. Add additional dimensions for clarification.

9. Sheet C-2.2

- A. Refer to revised, full-size drawing, included in this Addendum, for revised plan notes as indicated on drawing.

10. Sheet C-4.0

- A. Refer to revised, full-size drawing, included in this Addendum, for revised details as indicated on drawing.

11. Sheet C-4.1

- A. Refer to revised, full-size drawing, included in this Addendum, for added shotput and asphalt pavement details.

12. Sheet C-4.3

- A. Refer to revised, full-size drawing, included in this Addendum, for revised Detail 3/C-4.3 as indicated on drawing.

13. Sheet S-100N

- A. Refer to revised, full-size drawing, included in this Addendum, for the following revisions:
1. References to scoreboards added for baseball and softball field.
 2. Masonry pier detail reference updated for piers at softball field.

14. Sheet S-100S

- A. Refer to revised, full-size drawing, included in this Addendum, for the following revisions:
1. References to scoreboards added for baseball and softball field.

15. Sheet S-104

- A. Refer to revised, full-size drawing, included in this Addendum, for Detail 7 adjusted to show 2" block on each side of tube lintel.

16. Sheet S-106

- A. Refer to revised, full-size drawing, included in this Addendum, for adjusted end bay dimensions.

17. Sheet S-108

- A. Refer to revised, full-size drawing, included in this Addendum, for the following revisions:
1. Baseball scoreboard structural plan added, along with associated details.
 2. Masonry pier with concrete base detail added.

18. Sheet A-106

- A. Refer to revised, full-size drawing, included in this Addendum, for the following revisions:
1. Revise 3/A-106 plan and elevation.
 2. Add section 9/A-106 and details 7,8,10,11/A-106.

19. Sheet M-101

- A. Refer to revised, full-size drawing, included in this Addendum, for revised location of exhaust grill in Concessions A-101.

20. Sheet P-001

- A. Refer to revised, full-size drawing, included in this Addendum, for the following revisions:
1. Revised Plumbing Equipment Schedule to add bottle fillers.

21. Sheet P-002

- A. Refer to revised, full-size drawing, included in this Addendum, for the following revisions:
1. Revised Riser Diagram to add bottle filler.
 2. Revised location of SC-1.

22. Sheet P-101

- A. Refer to revised, full-size drawing, included in this Addendum, for the following revisions:
1. Revised location of SC-1.
 2. Added two bottle fillers.

23. Sheet E-001

- A. Refer to revised, full-size drawing, included in this Addendum, for the following revisions:
1. Add lighting fixture Type WA.

24. Sheet E-003

- A. Refer to revised, full-size drawing, included in this Addendum, for the following revisions:
1. Revised number of conduits for primary service.
 2. Revised location of the new utility meter.

25. Sheet E-005

- A. Refer to revised, full-size drawing, included in this Addendum, for the following revisions:
1. Revised PP-1 panel schedule to reflect additional hand dryer circuits.

26. Sheet ES101

- A. Refer to revised, full-size drawing, included in this Addendum, for the following revisions:
1. Added approximate location of existing junction box.
 2. Added 4" conduit run.
 3. Added a new sheet note.

27. Sheet ES102

- A. Refer to revised, full-size drawing, included in this Addendum, for the following revisions:
1. Added approximate location of new pad mounted utility XFMR.
 2. Added 4" conduit run.
 3. Added a new sheet note.

28. Sheet EL102

- A. Refer to revised, full-size drawing, included in this Addendum, for the following revisions:
1. Revised ticket booth lighting to utilize type WA wall sconces.

29. Sheet EP101

- A. Refer to revised, full-size drawing, included in this Addendum, for the following revisions:
1. Revised number of conduits for the utility primary.
 2. Added additional hand dryer locations.

Pages 1 through 4, inclusive, Specification Sections 06 61 00, 07 21 27, 11 68 33 and 26 56 68; and Twenty-Four (24) Full-Size Drawings, constitute the total makeup of **Addendum One**.



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SECTION 06 61 00

FIBERGLASS DOME

1 General

1.1 Section Includes

- A. Architectural Fiberglass Reinforced Polymer (FRP) Decorative Self-Supporting Dome for exterior application.

1.2 Related Sections

- A. Section 05 12 00 – Structural Steel: Attachment of dome frame.
- B. Section 06 10 00 – Rough Carpentry, miscellaneous framing.
- C. Section 07 21 27 – Enclosed Cavity Foamed Insulation: For finish foam insulation installation.
- D. Section 07 90 00 – Sealant: Joint Sealants and field applied sealant.

1.3 System Description

- A. Architectural fiberglass dome shall be designed as a self-supporting fiberglass structure with integral framing system. No additional skeleton structural framing shall be required to support the fiberglass dome.
- B. Installed architectural fiberglass dome and fastening systems shall be designed, engineered, fabricated, and installed to conform to the state codes, local codes, and the Architect's design. **Fiberglass Dome shall be designed under the supervision of, and approved by, a professional engineer registered in the state of Indiana and all submittal drawings shall bear his stamp.**

1.4 Quality Assurance

- A. Obtain architectural fiberglass dome from a single source manufacturer that has the ability and resources to comply with the requirements and schedule of the project.
 - 1. Provide a list of dome projects demonstrating the capability of manufacturing domes comparable in size, scope, and complexity as indicated in the documents.
 - 2. Manufacturer: Provide products manufactured by a firm specializing in the manufacture of fiberglass architectural domes, in the United States with a minimum of ten (10) years experience.

- B. Manufacturer to comply with Quality Control & Assurance Procedures and fabricate architectural fiberglass based upon provisions published in the “Guidelines and Recommended Practices for Fiberglass Reinforced Plastic Architectural Products”.
- C. Inspect each molded dome section to ensure that it complies with specified requirements, including nominal dimensions.

1.5 Submittals

- A. Submit Shop Drawings: Include plans, elevations, sections, profiles, and details of dome sections. Illustrate dimensions, adjacent construction, materials, thickness, fabrications details, required clearances, field jointing, colors, finishes, methods of support, attachments, anchorage to substrates, integration of components, and list of part numbers that coordinate with labeled architectural fiberglass parts.
- B. Submit Manufacturer's current valid certification with the Certified Composites Technician (CCT) program created by the American Composites Manufacturers Association (ACMA).
- C. Product Data: Submit Manufacturer's product data and installation instructions.
- D. Product Samples: Submit minimum 3-inch x 5-inch samples in specified color, texture and finish when applicable.

1.6 Delivery, Storage, and Handling

- A. Handle, store and transport architectural fiberglass dome according to Manufacturer's recommendations and in a manner that prevents damage.
- B. Protect architectural fiberglass from damage by retaining any shipping protection and store in a secure place until installation.
- C. Except for damage caused by others, the installer is responsible for chipping, cracking, or other damage to fiberglass fabrications, after delivery to the jobsite and until installation is completed and inspected and approved by the Architect or Owner's representative.

1.7 Warranty

- A. Warrant architectural fiberglass dome to be free from defect due to materials and workmanship for one year damage.

2 Products

2.1 Acceptable Manufacturers

- A. Architectural Fiberglass, Inc., Cleveland, Ohio.
- B. Or Approved Equal.

2.2 Fabrication Pattern/Molds

- A. Custom Pattern/Mockup: Patterns and mockups shall be hand-carved and/or CNC machined by skilled pattern makers with minimum of ten (10) years experience with architectural elements. Patterns and mockups shall be available at manufacturing facility for Architect's inspection and approval before molds are produced.
- B. Custom Molds: Molds shall be produced with ample layers of tooling resin, tooling gel-coat, glass fibers and/or flexible rubber by skilled mold makers with minimum of ten (10) years experience with architectural elements. Produced molds shall have rigidity and thickness to prevent distortion and deflection of molded architectural fiberglass.

2.3 Materials Characteristics

- A. Molded Exterior Surface: U-V inhibited, NPG-ISO polyester gel coat, 18 to 22 mils thick. Color to match in texture and finish of sample supplied by Architect.
- B. Barrier Coat: Specifically formulated backup polyester surface veil 18-20 mils thick to prevent glass print through and ultimate Class A finish.
- C. Back Up Laminate:
 - 1. Resin: Polyester resin shall be fire retardant and meet Class 1 flame spread rating of 25 or less and smoke density under 450 without the use of antimony trioxide as characterized by the ASTM E-84 tunnel test at typical 1/8" glass mat laminate. General purpose resin will not be permitted.
 - 2. Filler: Functional filler to be added to resin matrix to minimize shrinkage, add stiffness, control opacity, add fire retardance, improve surface finish, minimize crazing, and control dimensional stability from weather extremes.
 - 3. Fiberglass Reinforcement: Type "E" fiberglass, glass cloth, matt and/or random chopped glass fibers. Glass content approximately 20% to 30%.
 - 4. Laminate Thickness: Nominal laminate shall be minimum 3/16" thickness. Larger dome sections shall be manufactured with additional core reinforcements and/or sandwich structure added as required for rigidity and structural integrity.

2.4 Fabrication

- A. Dome shall be fabricated with integral framing system without the need for additional skeleton framing after assembly.
- B. Dome sections shall be formed with assembly bolting flanges with sufficient depth to provide structural integrity and to accommodate gaskets, fasteners, and sealant.
- C. Dome sections shall be manufactured for proper panel-to-panel alignment and for weather-tight installation.
- D. Dome sections shall be manufactured as a single unit spanning entire profile from base of dome to top of dome.
- E. Connection flanges shall be reinforced with polywood or other treated rot-proof material for connection to building substrate.
- F. Dome sections shall be factory pre-drilled, labeled, and pre-assembled for field reassembly.

- G. Cure and clean all components prior to shipment and remove material which may be toxic to plant or animal life or compatible with adjacent building materials.

2.5 Mechanical Properties and Tolerances

- A. Average Properties:

PROPERTY	VALUE	TEST METHOD
Tensile Strength	12,000 PSI	ASTM D638
Flexural Strength	20,000 PSI	ASTM D790
Flexural Modulus	0.9 x 10 ⁶ PSI	ASTM D790
Compressive Strength	17,000 PSI	ASTM D695
Bearing Strength	9,000 PSI	ASTM D638
Thermal Expansion	10 x 10 ⁻⁶ (°F)	
Specific Gravity	1.5	

- B. Tolerances:re.
 1. Part Thickness: + or – 1/8 inch.
 2. Gel Coat Thickness: + or – 2.5 mils.
 3. Length: + or – 1/8.
 4. Variation from Square: 1/8 inch.
 5. Hardware Location Variation: + or – 1/4 inch.

2.6 Identification

- A. Identify each architectural fiberglass dome section to coordinate with shop drawings.
- B. Number dome sections showing sequence of assembly.

2.7 Anchors and Fasteners

- A. Contractor is to provide anchors, fasteners, gaskets, and other accessories for proper installation of architectural fiberglass dome as recommended and approved by fiberglass fabrication manufacturer. Dome manufacturer to specify the above accessories.

2.8 Finish

- A. Dome shall be finished with Sherwin Williams Polane S Plus Polyurethane Enamel Coating as selected by Architect or Owner's representative. Surface texture / exposed side shall be smooth or textured based upon approved sample.

3 Execution

3.1 Examination

- A. Examine substrates under which insulation systems will be installed, for compliance with requirements. Verify field conditions will provide for a successful installation.

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

3.2 Installation

- A. Install architectural fiberglass dome in accordance with Manufacturer's instructions and approved shop drawings.
- B. Apply continuous run of sealant and expandable cellular foam gasket as recommended per Manufacturer's instructions and approved shop drawings to the bolting flanges of all sections for weather-tight installation.
- C. Dome to be assembled on level surface and raised into place.
- D. Exterior dome shall be field insulated for water tightness and to prevent condensation when installed on unfinished roof or when interior fiberglass dome is required. Field applied spray insulation to be sprayed on interior surface of exterior dome. Insulation shall be sprayed and encapsulate entire surface including attachment flanges, anchor bolts, assembly bolts, and perimeter bolting flange.
- E. Flashing shall be installed around the perimeter of the dome structure per Manufacturer's instructions and approved shop drawings.
- F. Exterior dome shall receive final sealant application on the exterior joints after installation.
- G. Interior dome joints (when applicable) shall be finished with polyester body filler and fiberglass mesh tape. Joints to be filled, sanded, primed and painted for monolithic appearance.

3.3 Tolerances

- A. Maximum Offset from True Alignment: 1/8 inch in 10 feet.
- B. Maximum Variation from True Position: 1/4 inch in 10 feet.

3.4 Cleaning

- A. Clean installed architectural fiberglass dome using cleaning methods and material approved by Manufacturer.

3.5 Protection

- A. Comply with Manufacturer's recommendations and instructions for protecting installed dome during construction activities.

END OF SECTION

SECTION 07 21 27

ENCLOSED CAVITY FOAMED INSULATION

1 General

1.1 Summary

- A. Section Includes enclosed cavity foamed insulation and air barrier system.

1.2 Submittals

- A. Submit shop drawings and product data under provisions of Division 01.
- B. Product Data: For each material indicated, including manufacturer's preparation and installation data.
- C. Shop Drawings: Wall elevations and details showing extend of cavity foamed insulation, intersections with adjacent surfaces, details at window and other opening perimeters, details of expansion joints, flashing, and other items for a complete insulation and air barrier system.
- D. Test Reports: Indicating compliance with specified requirements.
- E. Certificates:
 - 1. Installer certificates indicating accreditation by SPFA (Spray Polyurethane Foam Alliance).

1.3 Quality Assurance

- A. Installer Qualifications: An experienced firm who is approved by manufacturer to install manufacturer's products and who has successfully completed similar installations.
 - 1. Applicator: Currently accredited by SPFA (Spray Polyurethane Foam Alliance).
 - 2. Provide list of minimum three completed installations within the last three years.
- B. Comply with Indiana Energy Conservation code (ASHRAE 90.1 – 2007).

1.4 Delivery, Storage and Handling

- A. Deliver, store and handle materials in accordance with Division 01.
- B. Deliver and store materials and other products in their original unopened containers or packaging until ready for installation.
- C. Store and protect materials in accordance with manufacturer's recommendations.

1.5 Project Conditions

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products when environmental conditions are beyond manufacturer's limits.
- B. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit cavity foamed insulation/air barrier system to be installed according to manufacturer's written instructions.

2 Products

2.1 Manufacturer and System

- A. BASF Polyurethane Foam Enterprises LLC; Walltite.
- B. Icynen Polyurethane Spray Foam Insulation; Mississauga, Ontario.

2.2 Materials

- A. Foam Insulation Air Barrier System: Two-component, closed-cell, rigid-class polyurethane foam, sprayed-in-place, with the following properties:
 - 1. Density: ASTM D1622, Nominal 2 pounds per cubic foot.
 - 2. Water Vapor Permeance: ASTM E96, 1.4 perms at 1"
 - 3. Compressive Strength: ASTM D1621, 22 PSI.
 - 4. Tensile Strength: ASTM D1623 Type C, 28 PSI.
 - 5. Closed cell content: ASTM D6226, 90 percent minimum.
 - 6. Flame Spread Index: ASTM E84, 25 maximum.
 - 7. Smoke Developed Index: ASTM E84, 350 maximum.
- B. Substrate Primer: As required by manufacturer.

2.3 Accessories

- A. Transition Strips: Manufacturer's recommended self-adhering strips for indicated conditions.
 - 1. Perimeter openings of windows and other conditions encountered.
 - 2. Substrate material transitions and where indicated.

2.4 Equipment

- A. Furnish manufacturer's required equipment for spraying insulation/air barrier system in place.

3 Execution

3.1 Installers

- A. Acceptable Installers:
 - 1. Spray-Tec, Inc., Shelbyville, KY.
 - 2. Superior Insulation Company, LLC, Ferdinand, IN.
 - 3. Union Spray Foam, Lowell, IN
 - 4. U.S. Insulation Company, Bloomington, IN.

3.2 Examination

- A. Examine substrates under which insulation systems will be installed, for compliance with requirements. Verify flashing and veneer anchors are in place.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.3 Preparation

- A. Prepare surfaces using methods recommended by manufacturer to achieve best results for substrates under project conditions indicated.
- B. Comply with SPFA applicable guidelines.

3.4 Installation

- A. Install manufacturer's recommended primer for substrates indicated.
- B. Install insulation/air barrier system in accordance with manufacturer's written installation instructions.
- C. Install foam insulation/air barrier system in multiple layers with minimum pass thickness of 1/2 inch.
 - 1. Minimum total insulation thickness: 2 inches.
 - 2. Minimum R-Value: R-13.
- D. Develop finish skin surface to smooth and unbroken "orange peel" texture. Uneven surfaces, "treebark" or "popcorn" textures are not acceptable.
- E. Maximum Tolerance Variation from Indicated Thickness: Minus 1/4 inch, plus 1/2 inch.

3.5 Field Quality Control

- A. Site Tests: Conducted by Installer for compliance with requirements. Maintain records for submission at Substantial Completion.

1. Provide daily visual inspection, adhesion/cohesion testing and density measurements.

3.6 Protection

- A. Protect insulation/air barrier system from ultraviolet radiation as recommended by manufacturer's written instructions.

END OF SECTION

SECTION 11 68 33

ATHLETIC FIELD EQUIPMENT

1 General

1.1 Section Includes

- A. Manufactured athletic field equipment and accessories.

1.2 Related Sections

- A. Section 32 12 16 – Hot-Mix Asphalt Paving: Recess for markers.
- B. Section 32 13 80 – Exterior Concrete and Site Equipment.
- C. Section 32 18 25 - All Weather Latex Track Surface: Recess for markers and material installed in cover recess of some manufactured items.

1.3 Submittals

- A. Submit shop drawings, and manufacturers' installation instructions and product data under provisions of Division 1.
- B. Submit certificate of gradation (sieve analysis) for sand.

2 Products

2.1 Acceptable Manufacturers

- A. Sportsfield Specialties, Inc. Delhi, New York; (888-975-3343).
- B. UCS, Inc., Orangeburg, New York; (800-526-4856).
- C. American Athletic Equipment - AAE, West Conshohocken, Pennsylvania; (800-523-5471).
- D. Gill Athletics, Champaign, Illinois; (800-637-3090).

2.1 Track and Field Equipment

- A. Shot Put Ring Form Assembly: Complete with toe board.
 - 1. Basis-of-Design Product: Harry Gill #372 with #361, or UCS; 725-2592 with 716-1630.
- B. Discus Circle Form Assembly: Complete with Cage.
 - 1. Basis-of-Design Product: Harry Gill #370 with #803, or UCS; 725-2530 with UCS High School Discus Cage.

2.2 Football Goals

- A. Offset Single Support Post Football Goals: As manufactured by AALCO Manufacturing Co., St. Louis, Missouri.
 - 1. Pro-style bent post of 6 inch standard, galvanized steel pipe (6 5/8 inch OD) projects bar and uprights 6 feet out, padded.
 - a. Pad Color: Owner to select from manufacturers standard colors.
 - 2. Crossbar of 3 1/2 inch OD galvanized steel pipe.
 - 3. Uprights of 2 1/2 inch OD aluminum pipe. Style OY-6-20.

2.3 Baseball and Softball Batting Cages

- A. Batting Cage System: As manufactured by Aluminum Athletic Equipment, Royersford, PA, or approved equal, Models #BT-141455 and #BT-121470, with all accessories for a complete system.
 - 1. Contractor is to provide the Concrete Slab as detailed on the project drawings in conjunction with the concrete in-ground pole bases with sleeves.
 - a. Provide and install stainless steel eye-bolts imbedded in concrete slab per the manufacturers requirements.
 - 2. Provide all poles, netting, cables, and all accessories to make a complete system.
 - 3. Provide and install inside each batting cage, artificial batting cage turf, BCT – Batting Cage Turf as supplied by On Deck Sports, Braintree, Massachusetts.
 - a. Color: Solid Green.
 - b. Face Weight: 18 oz.
 - c. Yarn Type: Mono.
 - d. Height: 3/8-inch.
 - e. Backing: Drainable, Latex.
 - f. Size: approximately 15-feet by 55 and 75 feet respectively, covering the concrete of both batting cages.

2.4 Foul Ball Netting

- A. Foul Ball Netting Replacement: Polyethylene & Polypropylene netting, as manufactured by Jones-Sports, or approved equal, 1-inch netting mesh, with break/burst capacity of 85/245 lb or better.
 - 1. Provide all new cabling and attachments to match the existing pole locations.

2. Provide new mesh in width and length to match the existing mesh currently installed at the Varsity Softball location.

2.5 Baseball and Softball Benches

- A. Varsity Baseball and Softball Dugouts: As manufactured or supplied by Sportsfield Specialties, Inc., Delhi, NY, or approved equal, Model #PTBIT Two-Tier Polyboard Team Bench, with all accessories for a complete system installation. Provide manufacturers standard 5-year warranty.
 1. Length of Bench: 10-foot long.
 - a. Provide and Install stainless steel anchors to concrete slab as required by manufacturer.
 2. Quantity per Dugout: Four (4).
 3. Framing and Bench System.
 - a. Framing: 1/8-inch Aluminum framing and 2x2x1/8-inch Aluminum tubing, fully welded.
 - b. Polyboard: 2x4 and 2x6 Synthetic Polyboard Seat and Backrest/Upper Shelf. Solid core construction.
 4. Color Options:
 - a. Provide Powder Coat Finish on all Aluminum frame and tubing from manufacturers standard selections.
 - b. Polyboard Seat, Backrest, and Upper Shelf to be selected from manufacturers standard color options.
- B. Junior Varsity Baseball and Softball Dugouts: As manufactured or supplied by Sportsfield Specialties, Inc., Delhi, NY, or approved equal, Model #PTBBRSP10 Single-Tier Polyboard Team Bench with Backrest, with all accessories for a complete system installation. Provide manufacturers standard 5-year warranty.
 1. Length of Bench: 10-foot long.
 - a. Provide and Install stainless steel anchors to concrete slab as required by manufacturer.
 2. Quantity per Dugout: Three (3).
 3. Framing and Bench System.
 - a. Framing: 1/8-inch Aluminum framing and 2x2x1/8-inch Aluminum tubing, fully welded.
 - b. Polyboard: 2x4 Synthetic Polyboard Seat and Backrest. Solid core construction.

4. Color Options:
 - a. Provide Powder Coat Finish on all Aluminum frame and tubing from manufacturers standard selections.
 - b. Polyboard Seat and Backrest to be selected from manufacturers standard color options.

2.6 Junior Varsity Baseball and Softball Dugouts

- A. Junior Varsity Baseball and Softball Dugouts: As manufactured or supplied by Sportsfield Specialties, Inc., Delhi, NY, or approved equal, GameShade Dugout, Model #GD8X32 (LG-GS-08X32-130) Framed Dugout with Roof, with all accessories for a complete system installation.
 1. Length/Width of Dugout: 32-foot long by 8-foot wide.
 - a. Design Criteria: Minimum of Manufacturers Standards, with inclusion of State of Indiana Loading Criteria – refer to Documents.
 - b. Provide a stamped and sealed Set of Drawings as part of the Submittal, by a Licensed Professional Engineer of Record in the State of Indiana.
 2. Quantity: Four (4).
 3. Framing and Roof Deck System.
 - a. Structural Column Framing: Fully welded 3-1/2-inch x 3-1/2-inch x 3/16-inch Structural Steel Tube with Factory Pre-Drilled 9-inch x 9-inch x 5/8-inch A36 Steel Base Mounting Plates and 9-inch x 9-inch x 5/8-inch A36 Steel Roof and Column Cap Plates. Maximum Spacing of columns, 15-feet.
 - b. Structural Roof Framing: Fully welded 5-inch x 2-inch x 3/16-inch Structural Steel Rectangular Perimeter, Transverse, and Longitudinal Roof Tubes.
 - c. Framing Finish: Powder Coated Primer and Finish Coat, from manufacturers standard color selections.
 - d. Roofing Material: 29 Gauge, Classic Rib-Style Corrugated Metal with J-Channel Drip Cap Installed on Front and Sides, color as selected from manufacturers standard color selections.
 - e. Connection of framing and roofing to be per manufacturers standards.
 - f. Provide manufacturers standard Anchoring Hardware with standard epoxy finish to match the frame color.

3 Execution

3.1 Inspection

- A. Verify long jump pit excavation is correctly sized and located and ready for curbs and sand fill.

3.2 Installation

- A. Shot Put and Discus Circle: Set in concrete pad in accordance with manufacturer's instructions.

3.3 Football Goals

- A. Single Support Post Football Goals: Set horizontal support pipe 10 feet above finish grade.
 - 1. Set the vertical support pipe in concrete footing with top of footing 6 inches below finish grade as detailed on Drawings, or as required per manufacturers details and recommendations.

3.4 Batting Cages

- A. Install the complete batting cage system at locations indicated on drawings and per the manufacturers recommendations.

3.5 Foul Ball Netting

- A. Install complete the new netting on the existing pole system.

3.6 Baseball and Softball Benches

- A. Install complete the new benches for each Dugout location.

3.7 Junior Varsity Baseball and Softball Dugouts

- A. Install complete the new covered Dugouts for JV Baseball and Softball, coordinate with Fencing installation.

END OF SECTION

DIVISION 26 - ELECTRICAL
Section 26 56 68 – Exterior Athletic Lighting

1.00 PART 1 - GENERAL

1.01 SUMMARY:

- A. Work covered by this section of the specifications shall conform to the contract documents, engineering plans as well as state and local codes.
- B. The purpose of these specifications is to define the lighting system performance and design standards for the Crown Point High School new practice field using an LED Lighting source. The manufacturer / contractor shall supply lighting equipment to meet or exceed the standards set forth in these specifications.
- C. The sports lighting will be for the following venues.
 - 1. Football/Soccer practice field.
 - a. Football – 360' x160'
 - b. Soccer – 350' x 210'
- D. The primary goals of this sports lighting project are:
 - 1. Guaranteed Light Levels: Selection of appropriate light levels impact the safety of the players and the enjoyment of spectators. Therefore, light levels are guaranteed to not drop below specified target values for a period of 25 years.
 - 2. Environmental Light Control: It is the primary goal of this project to minimize spill light to adjoining properties and glare to the players, spectators, and neighbors.
 - 3. Cost of Ownership: In order to reduce the operating budget, the preferred lighting system shall be energy efficient and cost effective to operate. All maintenance costs shall be eliminated for the duration of the warranty.
 - 4. Control and Monitoring: To allow for optimized use of labor resources and avoid unneeded operation of the facility, customer requires a remote on/off control system for the lighting system. Fields should be proactively monitored to detect luminaire outages over a 25-year life cycle. All communication and monitoring costs for 25-year period shall be included in the bid.
- E. All lighting designs shall comply with Indiana High School Athletic Association standards.

1.02 LIGHTING PERFORMANCE:

- A. Illumination Levels and Design Factors: Playing surfaces shall be lit to an average target illumination level and uniformity as specified in the chart below. Lighting calculations shall be developed and field measurements taken on the grid spacing with the minimum number of grid points specified below. Appropriate light loss factors shall be applied and

submitted for the basis of design. Average illumination level shall be measured in accordance with the IESNA LM-5-04 (IESNA Guide for Photometric Measurements of Area and Sports Lighting Installations). Illumination levels shall not to drop below desired target values in accordance with IES RP-6-15, Page 2, Maintained Average Illuminance and shall be guaranteed for the full warranty period.

Area of Lighting	Average Target Illumination Levels	Maximum to Minimum Uniformity Ratio	Grid Points	Grid Spacing
Football	50fc	2:1	72	30' x 30'
Soccer	50fc	2:1	84	30' x 30'

- B. Color: The lighting system shall have a minimum color temperature of 5700K and a CRI of 75.
- C. Mounting Heights: To ensure proper aiming angles for reduced glare and to provide better playability, minimum mounting heights shall be as described below. Higher mounting heights may be required based on photometric report and ability to ensure the top of the field angle is a minimum of 10 degrees below horizontal.

# Of Poles	Pole Designation	Pole Height
4	F1-4	70'

1.03 ENVIRONMENTAL LIGHT CONTROL:

- A. Light Control Luminaires: All luminaires shall utilize spill light and glare control devices including, but not limited to, internal shields, louvers, and external shields. No symmetrical beam patterns are accepted.
- B. Spill Light and Glare Control: To minimize impact on adjacent properties, spill light and candela values must not exceed the following levels taken at 3 feet above grade.

Surrounding Spill at 150'	Maximum
Vertical Footcandles	0.4 fc
Candela	6,7500 cd

Sill Along S Main St. / W 129th Ave	Maximum
Vertical Footcandles	0.0 fc
Candela	100 cd

- C. Spill Scans: Spill scans must be submitted indicating the amount of horizontal and vertical footcandles along the specified lines. Light levels shall be taken at 30-foot intervals along the boundary line. Readings shall be taken with the meter orientation at both horizontal and aimed towards the most intense bank of lights. Illumination level shall be measured in accordance with the IESNA LM-5-04 after 1 hour warm up.

- D. The first page of a photometric report for all luminaire types proposed showing horizontal and vertical axial candle power shall be provided to demonstrate the capability of achieving the specified performance. Reports shall be certified by a qualified testing laboratory with a minimum of five years' experience or by a manufacturer's laboratory with a current accreditation under the National Voluntary Laboratory Accreditation Program for Energy Efficient Lighting Products. A summary of the horizontal and vertical aiming angles for each luminaire shall be included with the photometric report.

1.04 COST OF OWNERSHIP:

- A. Manufacturer shall submit a 25-year Cost of Ownership summary that includes energy consumption, anticipated maintenance costs, and control costs. All costs associated with faulty luminaire replacement - equipment rentals, removal and installation labor, and shipping - are to be included in the maintenance costs.

2.00 PART 2 – PRODUCT

2.01 SPORTS LIGHTING SYSTEM CONSTRUCTION:

- A. Manufacturing Requirements: All components shall be designed and manufactured as a system. All luminaires, wire harnesses, drivers and other enclosures shall be factory assembled, aimed, wired, and tested.
- B. Durability: All exposed components shall be constructed of corrosion resistant material and/or coated to help prevent corrosion. All exposed carbon steel shall be hot dip galvanized per ASTM A123. All exposed aluminum shall be powder coated with high performance polyester or anodized. All exterior reflective inserts shall be anodized, coated, and protected from direct environmental exposure to prevent reflective degradation or corrosion. All exposed hardware and fasteners shall be stainless steel, passivated and coated with aluminum-based thermosetting epoxy resin for protection against corrosion and stress corrosion cracking. Structural fasteners may be carbon steel and galvanized meeting ASTM A153 and ISO/EN 1461 (for hot dipped galvanizing), or ASTM B695 (for mechanical galvanizing). All wiring shall be enclosed within the cross-arms, pole, or electrical components enclosure.
- C. System Description: Lighting system shall consist of the following:
 - 1. Galvanized steel poles and cross-arm assembly.
 - 2. Non-approved pole technology:
 - a. Square static cast concrete poles will not be accepted.
 - b. Direct bury steel poles which utilize the extended portion of the steel shaft for their foundation will not be accepted due to potential for internal and external corrosive reaction to the soils and long-term performance concerns.
 - 3. Lighting systems shall use concrete foundations. See Section 2.4 for details.
 - a. For a foundation using a pre-stressed concrete base embedded in concrete backfill the concrete shall be air-entrained and have a minimum compressive design strength at 28 days of 3,000 PSI. 3,000 PSI concrete specified for early

- pole erection; actual required minimum allowable concrete strength is 1,000 PSI. All piers and concrete backfill must bear on and against firm undisturbed soil.
- b. For anchor bolt foundations or foundations using a pre-stressed concrete base in a suspended pier or re-enforced pier design pole erection may occur after 7 days. Or after a concrete sample from the same batch achieves a certain strength.
4. Manufacturer will supply all drivers and supporting electrical equipment:
 - a. Remote drivers and supporting electrical equipment shall be mounted approximately 10 feet above grade in aluminum enclosures. The enclosures shall be touch-safe and include drivers and fusing with indicator lights on fuses to notify when a fuse is to be replaced for each luminaire. Disconnect per circuit for each pole structure will be located in the enclosure. Integral drivers are not allowed.
 - b. Per IHSAA Lighting Standards (Page 5, Section 10 Ballast (MH) or Driver (LED) Weight). It is recommended that all ballast and drivers be remotely mounted on pole at step ladder height. Remote ballast/Remote drivers and supporting electrical equipment shall be mounted in aluminum enclosures. The enclosures shall be touch-safe and include drivers and fusing with indicator lights on fuses to notify when a fuse is to be replaced for each luminaire. Disconnect per circuit for each pole structure will be located in the enclosure.
 - c. Per IHSAA Lighting Standards (Page 5, Section 10 Ballast (MH) or Driver (LED) Weight); feels that remotely mounting ballast/drivers and supporting electrical equipment at step ladder height creates safer conditions and more economical solution for servicing and maintenance.
 - d. Manufacturer shall provide surge protection at the pole equal to or greater than 40 kA for each line to ground (Common Mode) as recommended by IEEE C62.41.2_2002.
 5. Wire harness complete with an abrasion protection sleeve, strain relief and plug-in connections for fast, trouble-free installation.
 6. All luminaires, visors, and cross-arm assemblies shall withstand 150 mi/h winds and maintain luminaire aiming alignment.
 7. Control cabinet to provide remote on-off control and monitoring of the lighting system. See Section 2.3 for further details.
 8. Manufacturer shall provide lightning grounding as defined by NFPA 780 and be UL Listed per UL 96 and UL 96A.
 - a. Integrated grounding via concrete encased electrode grounding system.
 - b. If grounding is not integrated into the structure, the manufacturer shall supply grounding electrodes, copper down conductors, and exothermic weld kits. Electrodes and conductors shall be sized as required by NFPA 780. The grounding electrode shall be minimum size of 5/8 inch diameter and 8 feet long,

with a minimum of 10 feet embedment. Grounding electrode shall be connected to the structure by a grounding electrode conductor with a minimum size of 2 AWG for poles with 75 feet mounting height or less, and 2/0 AWG for poles with more than 75 feet mounting height.

- D. Safety: All system components shall be UL listed for the appropriate application.

2.02 ELECTRICAL:

- A. Electric Power Requirements for the Sports Lighting Equipment:
 - 1. Electric power: 480 Volt, 3 Phase
 - 2. Maximum total voltage drop: Voltage drop to the disconnect switch located on the poles shall not exceed three (3) percent of the rated voltage.
- B. Energy Consumption: The kW consumption for the field lighting system shall be 58.0kW or less.

2.03 CONTROL:

- A. Instant On/Off Capabilities: System shall provide for instant on/off of luminaires.
- B. Lighting contactor cabinet(s) constructed of NEMA Type 4 aluminum, designed for easy installation with contactors, labeled to match field diagrams and electrical design. Manual off-on-auto selector switches shall be provided.
- C. Dimming: System shall provide for 3-stage dimming (high-medium-low). Dimming will be set via scheduling options (Website, app, phone, fax, email).
- D. Remote Lighting Control System: System shall allow owner and users with a security code to schedule on/off system operation via a web site, phone, fax or email up to ten years in advance. Manufacturer shall provide and maintain a two-way TCP/IP communication link. Trained staff shall be available 24/7 to provide scheduling support and assist with reporting needs.

The owner may assign various security levels to schedulers by function and/or fields. This function must be flexible to allow a range of privileges such as full scheduling capabilities for all fields to only having permission to execute "early off" commands by phone. Scheduling tool shall be capable of setting curfew limits.

Controller shall accept and store 7-day schedules, be protected against memory loss during power outages, and shall reboot once power is regained and execute any commands that would have occurred during outage.

- E. Remote Monitoring System: System shall monitor lighting performance and notify manufacturer if individual luminaire outage is detected so that appropriate maintenance can be scheduled. The controller shall determine switch position (manual or auto) and contactor status (open or closed).
- F. Management Tools: Manufacturer shall provide a web-based database and dashboard tool of actual field usage and provide reports by facility and user group. Dashboard shall

also show current status of luminaire outages, control operation and service. Mobile application will be provided suitable for IOS, Android and Blackberry devices.

Hours of Usage: Manufacturer shall provide a means of tracking actual hours of usage for the field lighting system that is readily accessible to the owner.

1. Cumulative hours: shall be tracked to show the total hours used by the facility.
 2. Report hours saved by using early off and push buttons by users.
- G. Communication Costs: Manufacturer shall include communication costs for operating the control and monitoring system for a period of 25 years.
- H. Communication with luminaire drivers: Control system shall interface with drivers in electrical components enclosures by means of powerline communication.

2.04 STRUCTURAL PARAMETERS:

- A. Wind Loads: Wind loads shall be based on the 2012 International Building Code. Wind loads to be calculated using ASCE 7-10, an ultimate design wind speed of 115 and exposure category C.
- B. Pole Structural Design: The stress analysis and safety factor of the poles shall conform to 2009 AASHTO Standard Specification for Structural Supports for Highway Signs, Luminaires, and Traffic Signals (LTS-5).
- C. Foundation Design: The foundation design shall be based on soil parameters as outlined in the geotechnical report from Advanced Engineering Services dated March 15, 2021 (updated March 24, 2021).
- D. Foundation Drawings: If project specific foundation drawings are required, they must be stamped by a registered engineer in the state where the project is located. The foundation drawings must list the moment, shear (horizontal) force, and axial (vertical) force at ground level for each pole. These drawings must be submitted at time of bid to allow for accurate pricing.

3.00 PART 3 – EXECUTION

3.01 SOIL QUALITY CONTROL:

- A. It shall be the Contractor's responsibility to notify the Owner if soil conditions exist other than those on which the foundation design is based, or if the soil cannot be readily excavated. Contractor may issue a change order request / estimate for the Owner's approval / payment for additional costs associated with.
1. Providing engineered foundation embedment design by a registered engineer in the State of Indiana for soils other than specified soil conditions.
 2. Additional materials required to achieve alternate foundation.
 3. Excavation and removal of materials other than normal soils, such as rock, caliche, etc.

3.02 DELIVERY TIMING:

- A. Delivery Timing Equipment On-Site: The equipment must be on-site 10-12 weeks from receipt of approved submittals and receipt of complete order information. Delivery times in excess of this timeframe shall be indicated at the time of bid.

3.03 FIELD QUALITY CONTROL:

- A. Illumination Measurements: Upon substantial completion of the project and in the presence of the Contractor, Project Engineer, Owner's Representative, and Manufacturer's Representative, illumination measurements shall be taken and verified. The illumination measurements shall be conducted in accordance with IESNA LM-5-04.
- B. Field Light Level Accountability:
 - 1. Light levels are guaranteed not to fall below the target maintained light levels for the entire warranty period of 25 years. These levels will be specifically stated as "guaranteed" on the illumination summary provided by the manufacturer.
 - 2. The contractor/manufacturer shall be responsible for conducting initial light level testing and an additional inspection of the system, in the presence of the owner, one year from the date of commissioning of the lighting.
 - 3. The contractor/manufacturer will be held responsible for any and all changes needed to bring these fields back to compliance for light levels and uniformities. Contractor/Manufacturer will be held responsible for any damage to the fields during these repairs.
- C. Correcting Non-Conformance: If, in the opinion of the Owner or his appointed Representative, the actual performance levels including footcandles and uniformity ratios are not in conformance with the requirements of the performance specifications and submitted information, the Manufacturer shall be required to make adjustments to meet specifications and satisfy Owner.

3.04 WARRANTY AND GUARANTEE:

- A. 25-Year Warranty: Each manufacturer shall supply a signed warranty covering the entire system for 25 years from the date of shipment. Warranty shall guarantee specified light levels. Manufacturer shall maintain specifically-funded financial reserves to assure fulfillment of the warranty for the full term. Warranty does not cover weather conditions events such as lightning or hail damage, improper installation, vandalism or abuse, unauthorized repairs or alterations, or product made by other manufacturers.
- B. Maintenance: Manufacturer shall monitor the performance of the lighting system, including on/off status, hours of usage and luminaire outage for 25 years from the date of equipment shipment. Parts and labor shall be covered such that individual luminaire outages will be repaired when the usage of any field is materially impacted. Manufacturer is responsible for removal and replacement of failed luminaires, including all parts, labor, shipping, and equipment rental associated with maintenance. Owner agrees to check fuses in the event of a luminaire outage.



4.00 PART 4 – DESIGN APPROVAL

4.01 PRE-BID SUBMITTAL REQUIREMENTS (Non-Musco):

- A. Design Approval: The owner / engineer will review pre-bid submittals per section 4.01.B from all the manufacturers to ensure compliance to the specification 5 days prior to bid. If the design meets the design requirements of the specifications, a response will be issued to the manufacturer indicating approval for the specific design submitted.
- B. Approved Product: Musco's Light-Structure System™ with TLC for LED™ is the approved product. All substitutions must provide a complete submittal package for approval as outlined in Submittal Information at the end of this section at least 5 days prior to bid. Special manufacturing to meet the standards of this specification may be required.
- C. All listed manufacturers not pre-approved shall submit the information at the end of this section at least 5 days prior to bid.
- D. Bidders are required to bid only products that have been approved. Bids received that do not utilize an approved system/design, will be rejected.

**REQUIRED SUBMITTAL INFORMATION FOR ALL MANUFACTURERS (NOT PRE-APPROVED) 5 DAYS
PRIOR TO BID**

All items listed below are mandatory, shall comply with the specification and be submitted according to pre-bid submittal requirements. Complete the Yes/No column to indicate compliance (Y) or noncompliance (N) for each item. Submit checklist below with submittal.

Yes/ No	Tab	Item	Description
	A	Letter/ Checklist	Listing of all information being submitted must be included on the table of contents. List the name of the manufacturer's local representative and his/her phone number. Signed submittal checklist to be included.
	B	Equipment Layout	Drawing(s) showing field layouts with pole locations
	C	On Field Lighting Design	Lighting design drawing(s) showing: <ul style="list-style-type: none"> a. Field Name, date, file number, prepared by b. Outline of field(s) being lighted, as well as pole locations referenced to the center of the field (x & y), Illuminance levels at grid spacing specified c. Pole height, number of fixtures per pole, horizontal and vertical aiming angles, as well as luminaire information including wattage, lumens, and optics d. Height of light test meter above field surface. e. Summary table showing the number and spacing of grid points; average, minimum and maximum illuminance levels in foot candles (fc); uniformity including maximum to minimum ratio, coefficient of variance (CV), coefficient of utilization (CU) uniformity gradient; number of luminaires, total kilowatts, average tilt factor; light loss factor.
	D	Off Field Lighting Design	Lighting design drawing showing initial spill light levels along the boundary line (defined on bid drawings) in footcandles. Lighting design showing glare along the boundary line in candela. Light levels shall be taken at 30-foot intervals along the boundary line. Readings shall be taken with the meter orientation at both horizontal and aimed towards the most intense bank of lights.
	E	Photometric Report	Provide first page of photometric report for all luminaire types being proposed showing candela tabulations as defined by IESNA Publication LM-35-02. Photometric data shall be certified by laboratory with current National Voluntary Laboratory Accreditation Program or an independent testing facility with over 5 years' experience.
	F	Performance Guarantee	Provide performance guarantee including a written commitment to undertake all corrections required to meet the performance requirements noted in these specifications at no expense to the owner. Light levels must be guaranteed to not fall below target levels for warranty period.
	G	Structural Calculations	Pole structural calculations and foundation design showing foundation shape, depth backfill requirements, rebar, and anchor bolts (if required). Pole base reaction forces shall be shown on the foundation drawing along with soil bearing pressures. Design must be stamped by a structural engineer in the state of Indiana. (May be supplied upon award).
	H	Control & Monitoring System	Manufacturer of the control and monitoring system shall provide written definition and schematics for automated control system. They will also provide references of customers currently using proposed system in the state of Indiana.

I	Electrical Distribution Plans	Manufacturer bidding an alternate product must include a revised electrical distribution plan including changes to service entrance, panels, and wire sizing.
J	Warranty	Provide written warranty information including all terms and conditions. Provide references of customers currently under specified warranty in the state of Indiana.
K	Project References	Manufacturer to provide a list of projects where the technology and specific fixture proposed for this project has been installed in the state of Indiana. Reference list will include project name, project city, installation date, and if requested, contact name and contact phone number.
L	Product Information	Complete bill of material and current brochures/cut sheets for all product being provided.
M	Delivery	Manufacturer shall supply an expected delivery timeframe from receipt of approved submittals and complete order information.
N	Non- Compliance	Manufacturer shall list all items that do not comply with the specifications. If in full compliance, tab may be omitted.

The information supplied herein shall be used for the purpose of complying with the specifications for the Crown Point High School new practice field lighting. By signing below, I agree that all requirements of the specifications have been met and that the manufacturer will be responsible for any future costs incurred to bring their equipment into compliance for all items not meeting specifications and not listed in the Non-Compliance section.

Manufacturer: _____

Signature: _____

Contact Name: _____

Date: ____/____/____

Contractor: _____

Signature: _____

END OF SECTION 26 56 68



GIBRALTAR
DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
**CROWN POINT HIGH SCHOOL -
ATHLETIC FIELDS AND
SITE
IMPROVEMENTS**

FOR:
CROWN POINT COMMUNITY
SCHOOL CORPORATION
CROWN POINT, INDIANA

GIBRALTAR DESIGN

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Indianapolis, IN 46260
Homepage: www.GibraltarDesign.com
Email: info@GibraltarDesign.com
Phone: 317.580.5777 Fax: 317.580.5778

PROJECT
21-120
DATE
08/18/22
COORDINATED BY
JPB
DRAWN BY
DTB
CHECKED BY
JPB



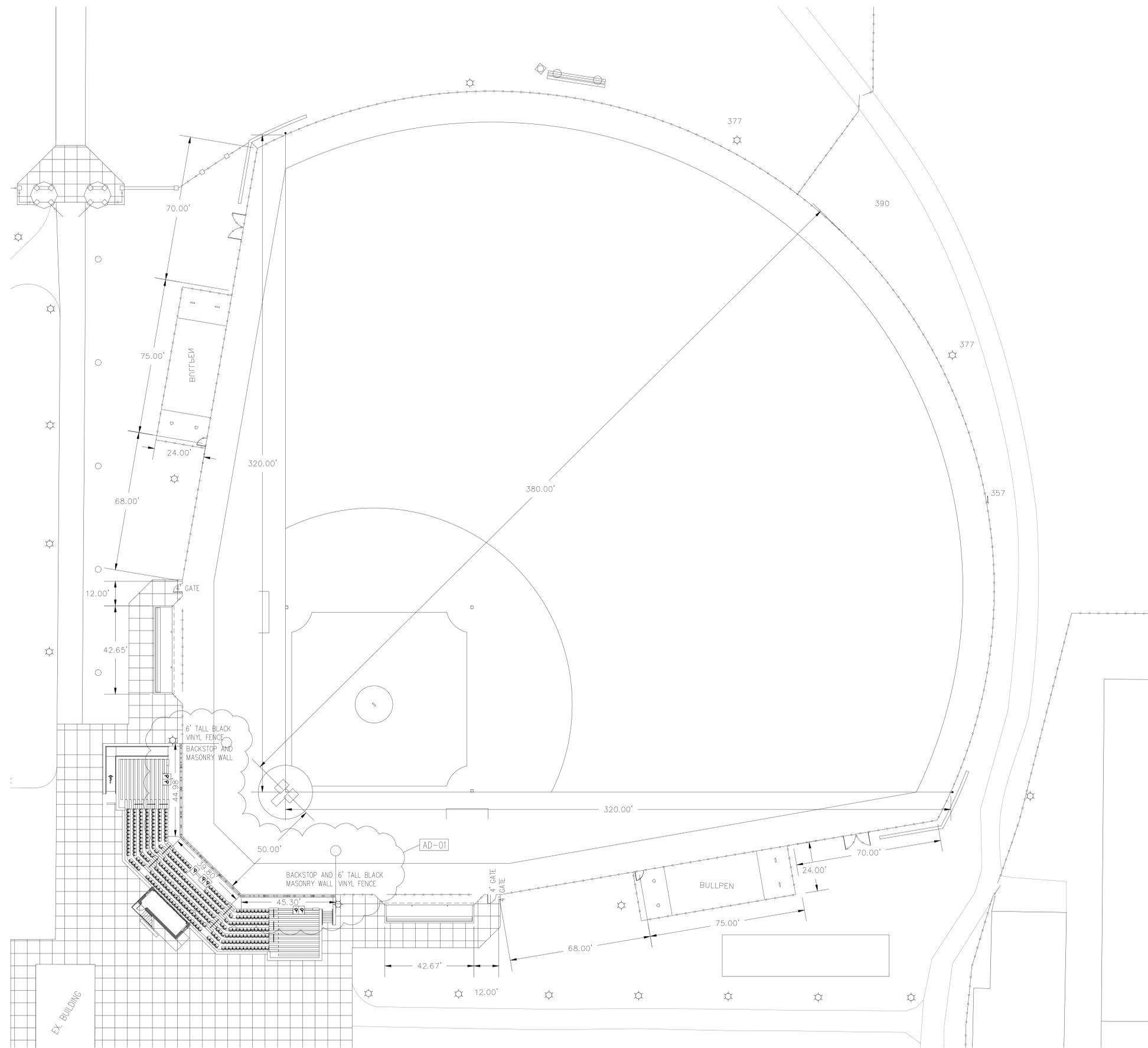
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THIS INFORMATION SHALL BE USED BY ANY PERSON OR FIRM
FOR ANY PURPOSE WITHOUT THE EXPRESS WRITTEN CONSENT
OF GIBRALTAR DESIGN. THE OWNER MAY RETAIN COPIES FOR
INFORMATION AND REFERENCE IN CONNECTION ONLY WITH THIS
PROJECT.

REVISIONS	MARK	DATE	ISSUED FOR
AD-1	08/30/22		ADDENDUM NO. 1

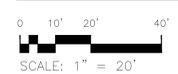
DRAWING
BASEBALL LAYOUT PLAN

PROJECT
**CROWN POINT HIGH SCHOOL -
ATHLETIC FIELDS AND SITE
IMPROVEMENTS**

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C-2.1A



**CROWN POINT HIGH SCHOOL
BASEBALL LAYOUT PLAN**



Wednesday, 8/23/2022 - 9:25 AM - LAST SAVED BY: JBURNS
 Y:\21-120 CROWN POINT CSC - CROWN POINT HS
 ATHLETIC FIELDS AND SITE IMPROVEMENTS\21-120
 DRAWINGS\03 SITE\C-2.1A.DWG



GIBRALTAR
DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
**CROWN POINT HIGH SCHOOL -
ATHLETIC FIELDS AND
SITE
IMPROVEMENTS**

FOR:
CROWN POINT COMMUNITY
SCHOOL CORPORATION
CROWN POINT, INDIANA

GIBRALTAR DESIGN

9102 N. Meridian St., Ste. 300
Indianapolis, IN 46260
Homepage: www.GibraltarDesign.com
Email: info@GibraltarDesign.com
Phone: 317.580.5777 Fax: 317.580.5778

PROJECT
21-120
DATE
08/18/22
COORDINATED BY
JPB
DRAWN BY
DTB
CHECKED BY
JPB



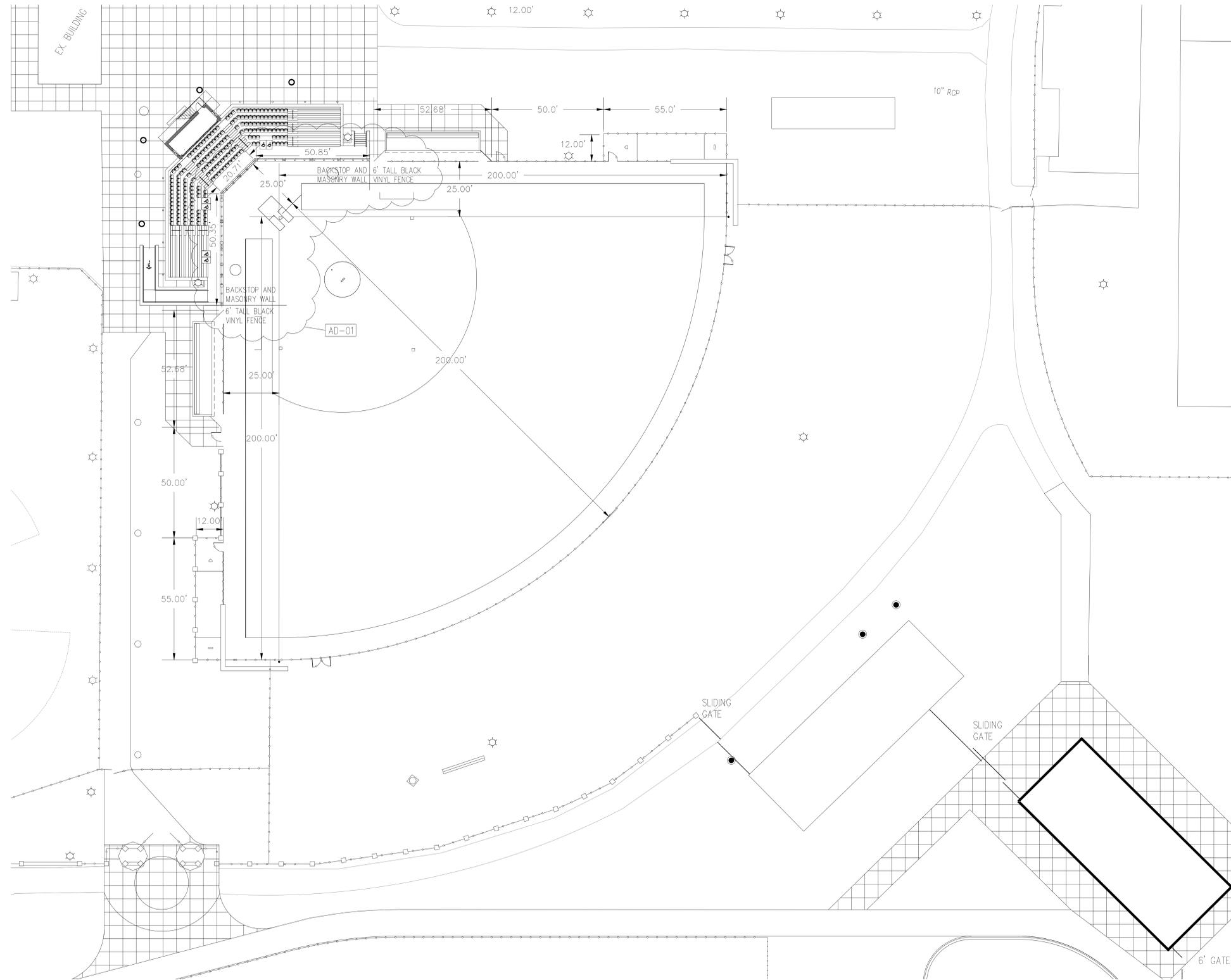
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REVISIONS	MARK	DATE	ISSUED FOR
AD-1	08/30/22	ADDENDUM NO. 1	

DRAWING
SOFTBALL TURF PLAN

PROJECT
**CROWN POINT HIGH SCHOOL -
ATHLETIC FIELDS AND SITE
IMPROVEMENTS**

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C-2.1B



**CROWN POINT HIGH SCHOOL
SOFTBALL LAYOUT PLAN**



Wednesday, 8/31/2022, 9:27 AM - LAST SAVED BY: JBURNS
 V:\21-120 CROWN POINT CSC - CROWN POINT HS
 ATHLETIC FIELDS AND SITE IMPROVEMENTS\21-120
 DRAWINGS\03 SITE\C-2.1B.DWG



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CROWN POINT HIGH SCHOOL - ATHLETIC FIELDS AND SITE IMPROVEMENTS

FOR:
CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

LEGEND:

- PROPOSED
- BASE: GRIND AND RESURFACE ASPHALT
 - ALTERNATE: NEW CONCRETE WALK
 - HANDICAP ACCESS RAMP
 - NEW ASPHALT WALK
 - GRIND ASPHALT & RESURFACE 1-1/2" DEPTH
 - GRIND ASPHALT & RESURFACE 1-1/2" DEPTH OR ALTERNATE NEW CONCRETE

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Indianapolis, IN 46260
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Email: info@GibraltarDesign.com
Phone: 317.580.5777 Fax: 317.580.5778

PROJECT: 21-120
DATE: 08-22-22
COORDINATED BY: DCT
DRAWN BY: DCT EM
CHECKED BY: DCT RAT



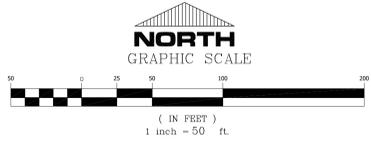
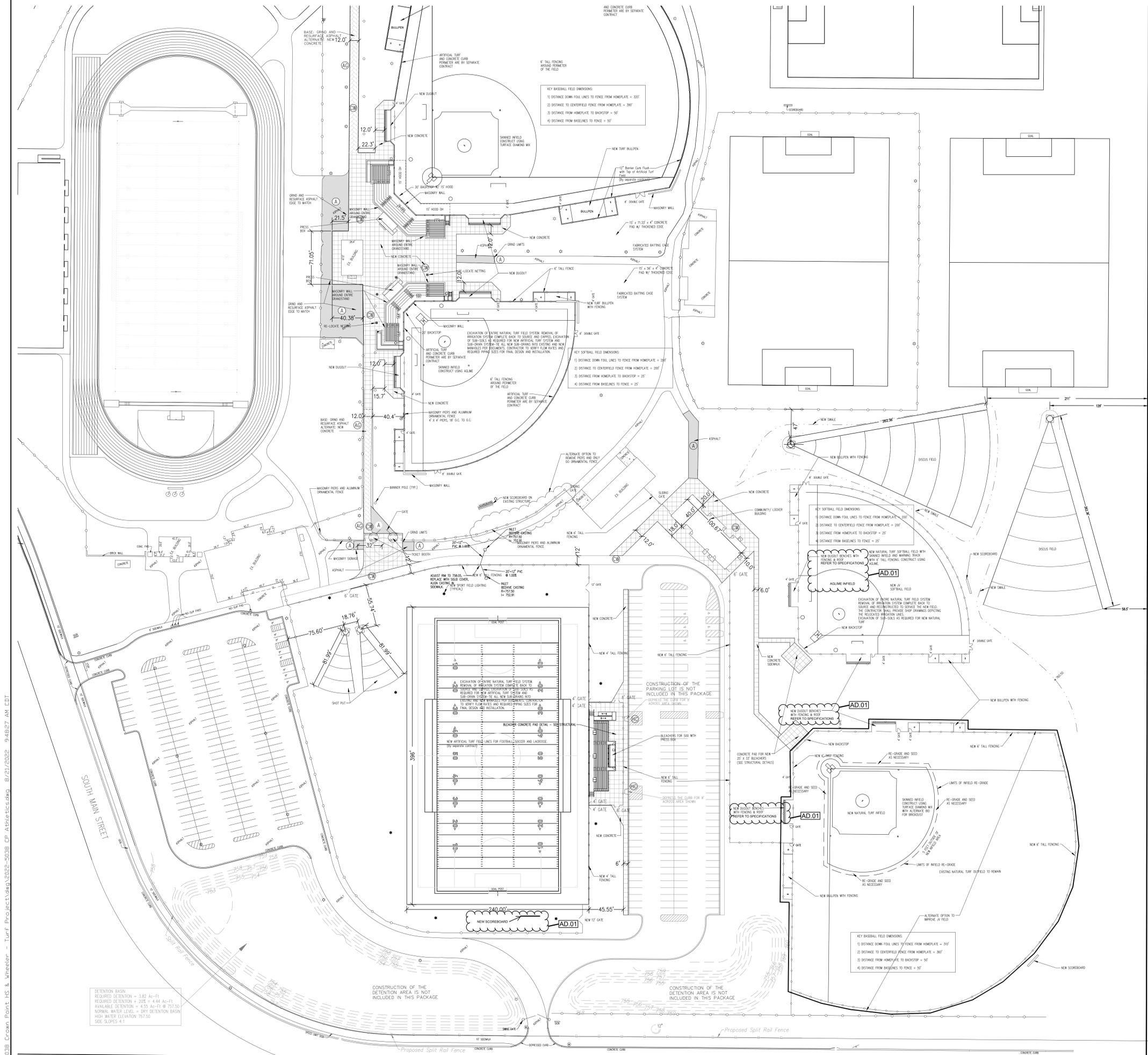
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DRAWING
SITE PLAN

PROJECT
CROWN POINT HIGH SCHOOL - ATHLETIC FIELDS AND SITE IMPROVEMENTS

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Z:\2022-2028 Crown Point HS & Wheeler - Turf Project\tdwg\2022-2028 CP Athletics.dwg 8/21/2022 9:48:27 AM CDT

DETENTION BASIN
REQUIRED DETENTION = 3.92 Ac-Ft
REQUIRED DETENTION = 205 Ac-Ft
AVAILABLE DETENTION = 4.55 Ac-Ft @ 757.50
NORMAL WATER LEVEL = DRY DETENTION BASIN
HIGH WATER ELEVATION 757.50
SIDE SLOPES 4:1

CONSTRUCTION OF THE DETENTION AREA IS NOT INCLUDED IN THIS PACKAGE

CONSTRUCTION OF THE DETENTION AREA IS NOT INCLUDED IN THIS PACKAGE

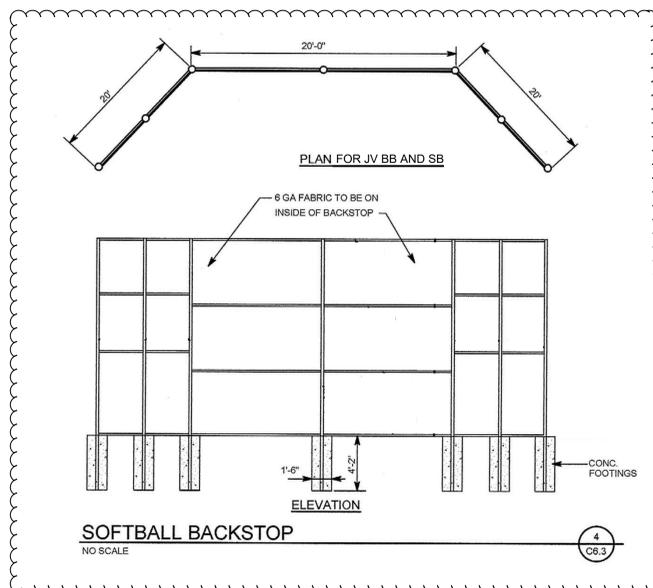
WEST 129th AVENUE

(IN FEET) 1 inch = 50 ft.



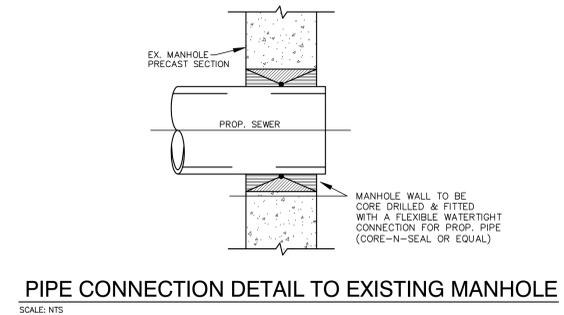
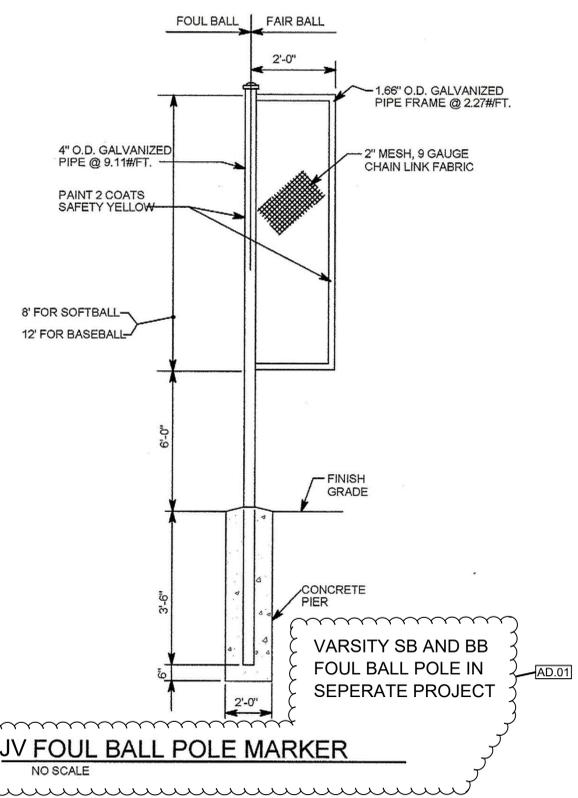
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**CROWN POINT
HIGH SCHOOL -
ATHLETIC
FIELDS AND
SITE
IMPROVEMENTS**

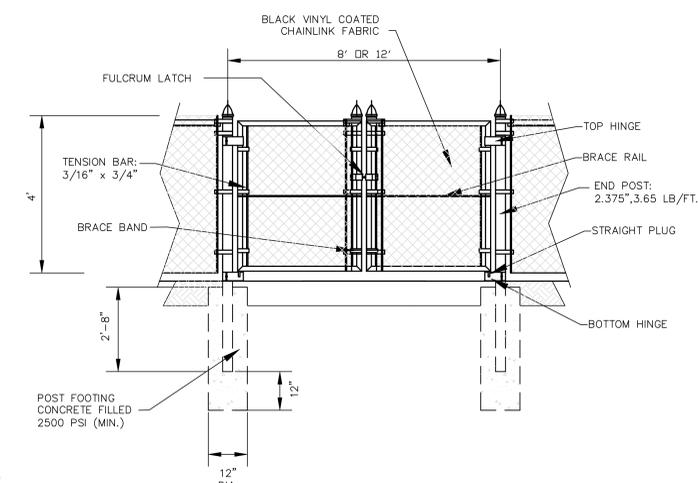


SOFTBALL/BASEBALL BACKSTOP
SCALE: NTS

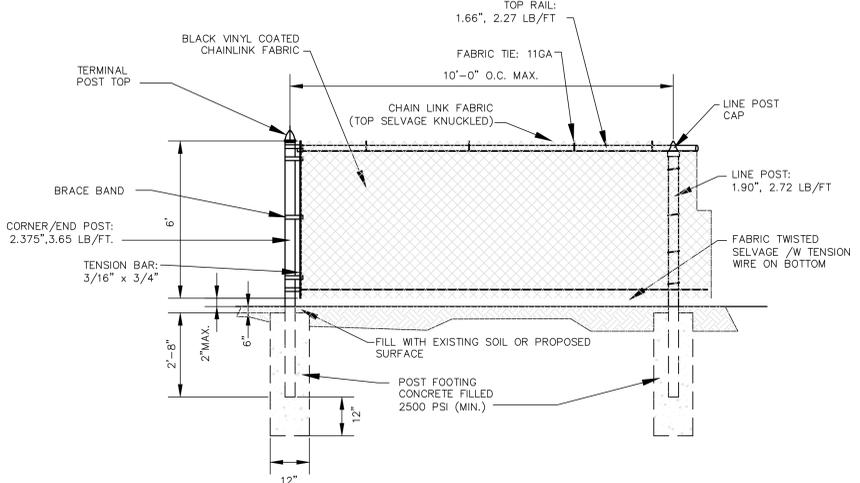
NOTE: BASEBALL BACKSTOP SHALL BE 30 FEET HIGH WITH 15' OVERHANG HOOD.
SOFTBALL BACKSTOP SHALL BE 20 FEET HIGH.



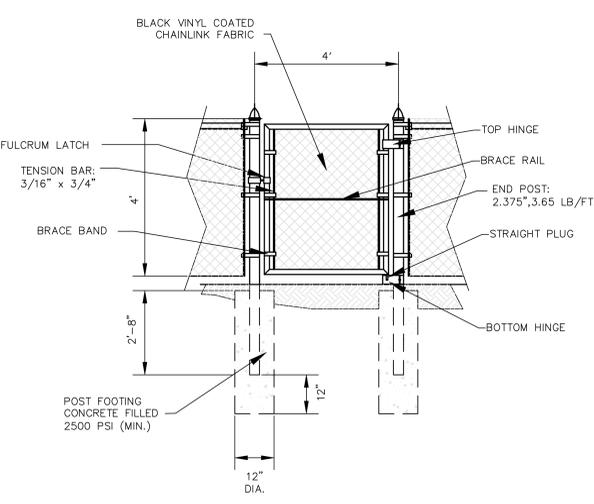
PIPE CONNECTION DETAIL TO EXISTING MANHOLE
SCALE: NTS



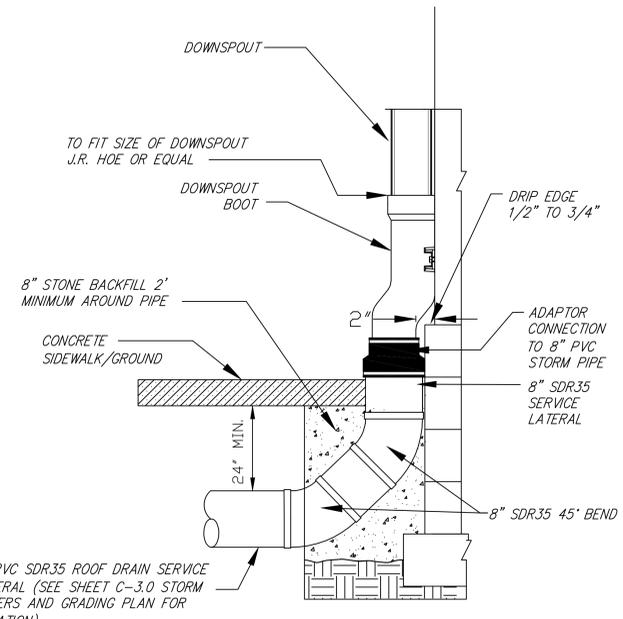
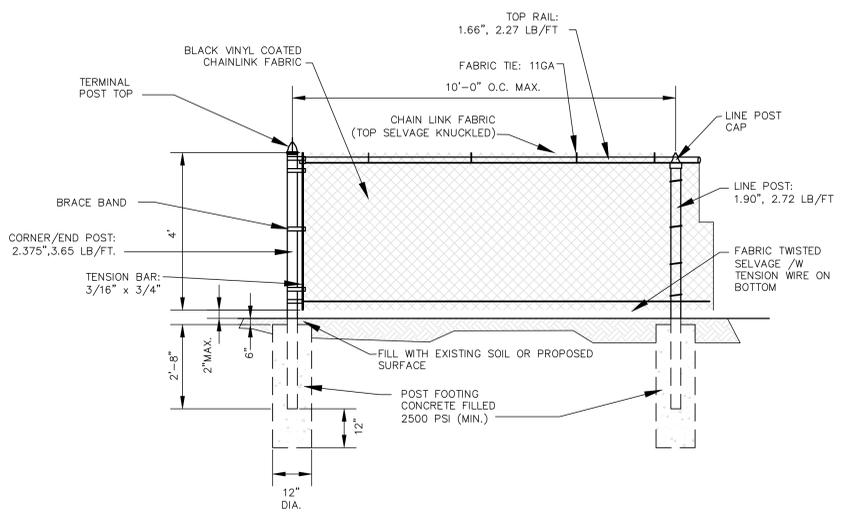
8' OR 12' VINYL FENCE GATE DETAIL
SCALE: NTS



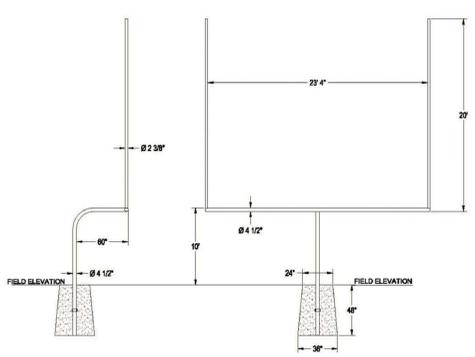
6' VINYL FENCE SECTION DETAIL
SCALE: NTS



4' VINYL FENCE SECTION/GATE DETAIL
SCALE: NTS



**(DOWN SPOUT)
ROOF DRAIN PIPE CONNECTION**
NOT TO SCALE



Goalposts shall meet all National High School Federation rules. Goalposts shall be of the single band post design and provide a minimum of 60" of setback from the front of the post to the front of the horizontal crossbar. The band post shall be a minimum of 4" schedule 40 (4 1/2" outside diameter) ASTM A500 grade C structural pipe and provide for no less than 40" bury into the ground. A band clamp shall be attached to each pole to eliminate rotation in the concrete footing. Horizontal crossbars shall be no less than 1 1/2" OD flow coated steel tubing with a 7 gauge wall thickness and be of a length to allow uprights to extend upward with official high school 23 3/8" between the upright members. Two vertical uprights shall rise a minimum of 20" above the top of the crossbar. Uprights shall be constructed of 2 3/8" diameter 6063-T6 aluminum with a minimum 0.154" wall thickness. Uprights shall be connected to each end of the crossbar by means of a matched aluminum insert that allows the angle of the uprights to be adjusted at the time of field installation. The insert design shall allow rain to escape through the insert from the top of the uprights. The crossbar shall be attached to the band post by means of an adjustable "T" adaptor that allows field adjustment of the horizontal crossbar for ease and accuracy of installation. Installation to be completed in accordance to manufacturer's instructions. Do not scale drawings. All steel and aluminum members shall have a polyester powder coated finish (white-WT or safety yellow-SY). All hardware shall be zinc plated grade 5 minimum. Optional features include ground sleeves, safety padding and wind direction flags. Shipping weight approximately 1050#/pair.

FOOTBALL GOAL POST
SCALE: NTS

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PROJECT: 21-120
DATE: 08-22-22
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DRAWN BY: DCT EM
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DRAWING
DETAILS & SPECIFICATIONS

PROJECT
**CROWN POINT HIGH SCHOOL -
ATHLETIC FIELDS AND SITE
IMPROVEMENTS**

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C-4.0

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PROJECT
CROWN POINT HIGH SCHOOL - ATHLETIC FIELDS AND SITE IMPROVEMENTS

FOR:
CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

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PROJECT: 21-120
DATE: 08/18/22
COORDINATED BY: JPB
DRAWN BY: DTB
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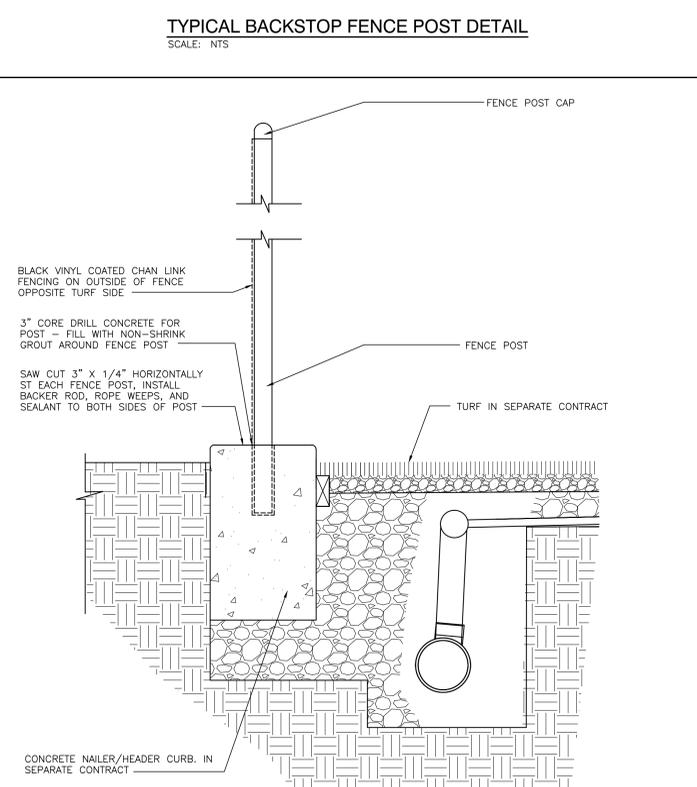
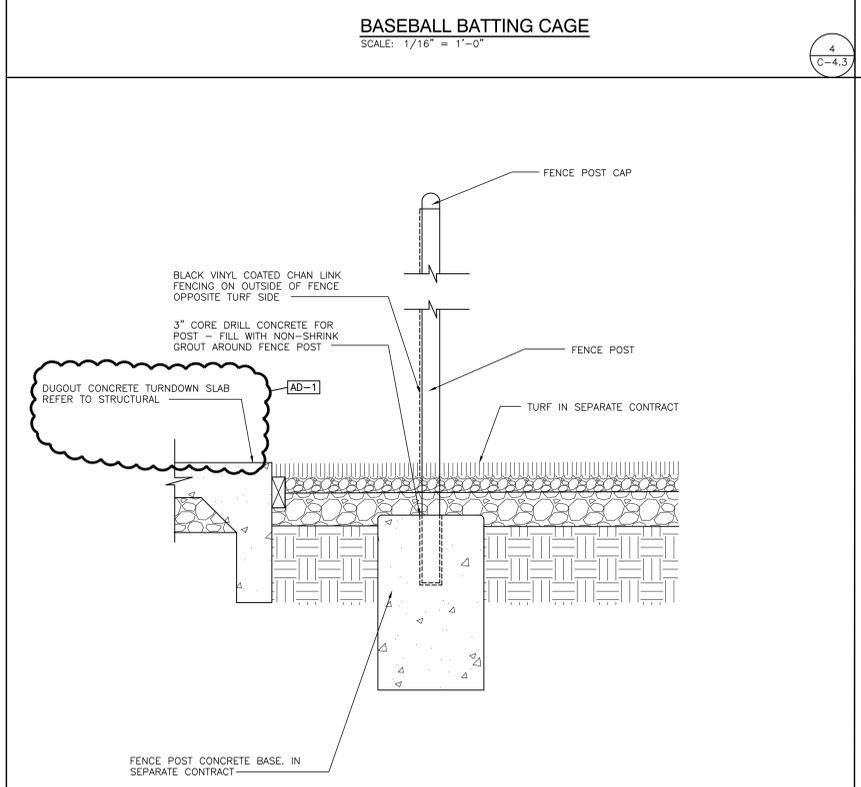
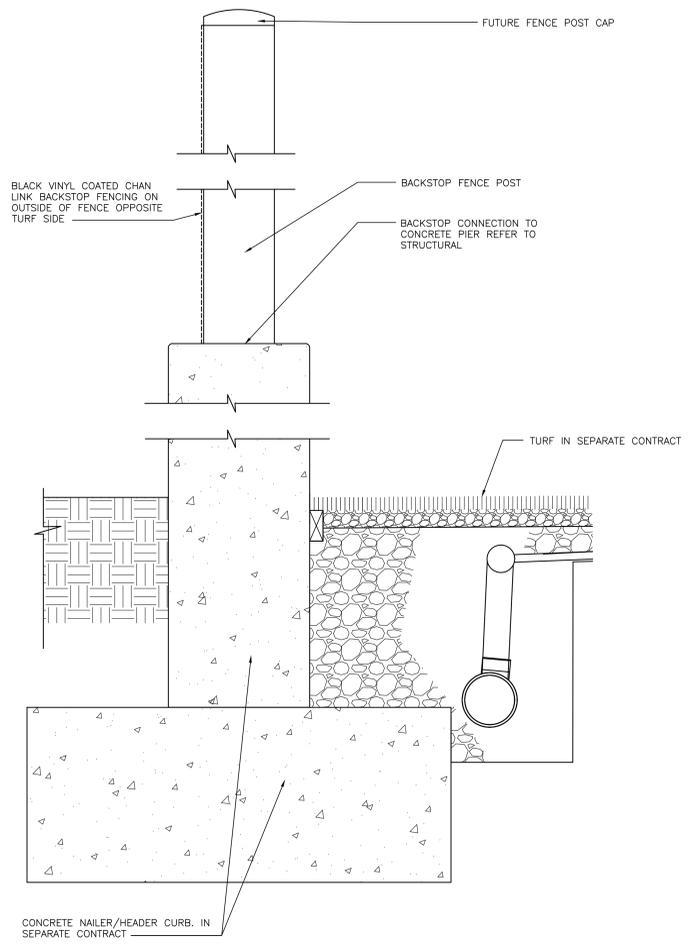
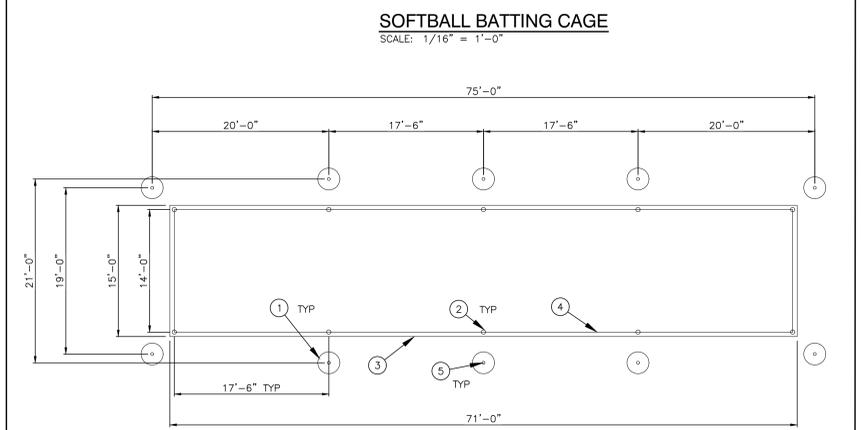
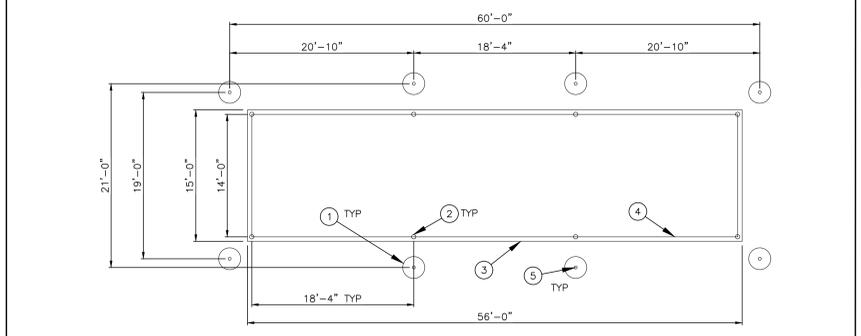
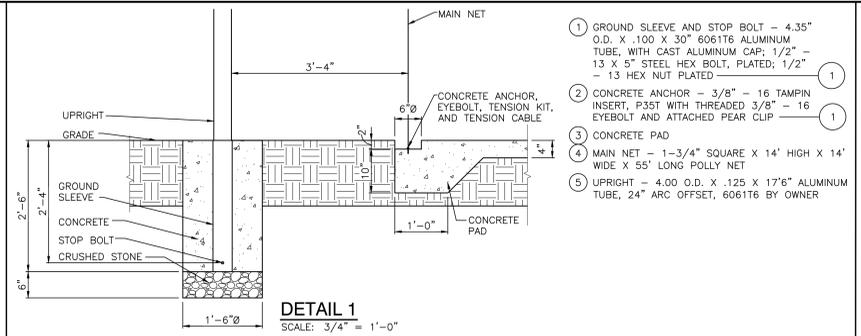
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SITE DETAILS

PROJECT
CROWN POINT HIGH SCHOOL - ATHLETIC FIELDS AND SITE IMPROVEMENTS

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 ATHLETIC FIELDS AND SITE IMPROVEMENTS\21-120
 DRAWINGS\03 SITE\C-4.3.DWG



PROJECT
**CROWN POINT HIGH SCHOOL -
SPORTS SITE IMPROVEMENTS**

FOR:
CROWN POINT COMMUNITY
SCHOOL CORPORATION
CEDAR LAKE, INDIANA

GIBRALTAR DESIGN

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PROJECT

21-120

DATE

08/18/2022

COORDINATED BY

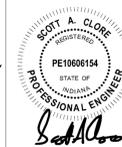
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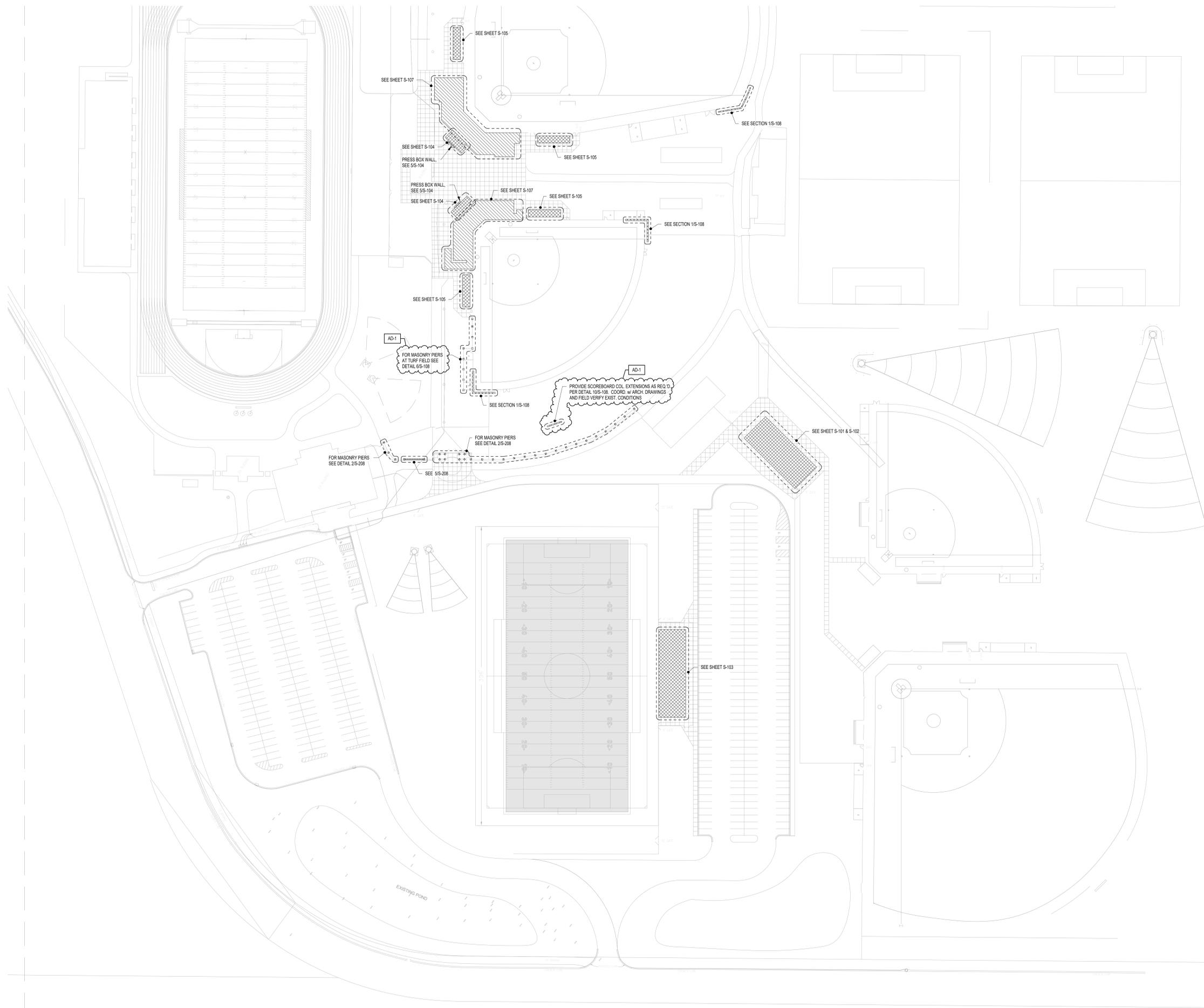
DRAWING
STRUCTURAL SITE KEY PLAN
SOUTH

PROJECT
CROWN POINT HIGH SCHOOL -
SPORTS SITE IMPROVEMENTS

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SHEET

S-100S





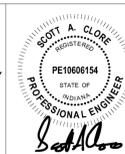
PROJECT
**CROWN POINT
HIGH SCHOOL -
SPORTS SITE
IMPROVEMENTS**

FOR:
CROWN POINT COMMUNITY
SCHOOL CORPORATION
CEDAR LAKE, INDIANA

GIBALTAR DESIGN

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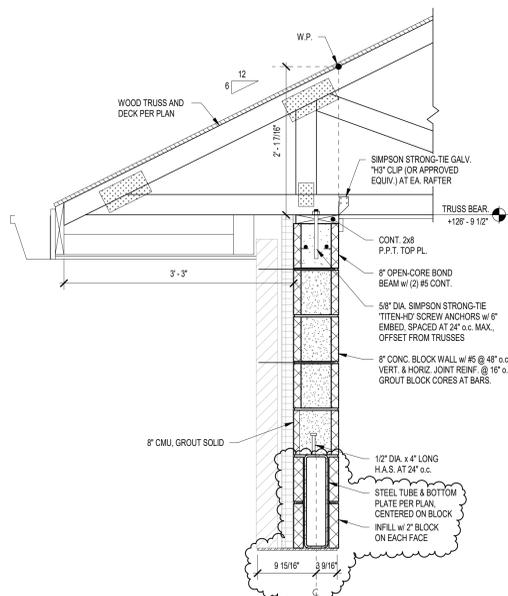
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**DRAWING
STRUCTURAL PLANS AND
DETAILS - PRESS BOX**

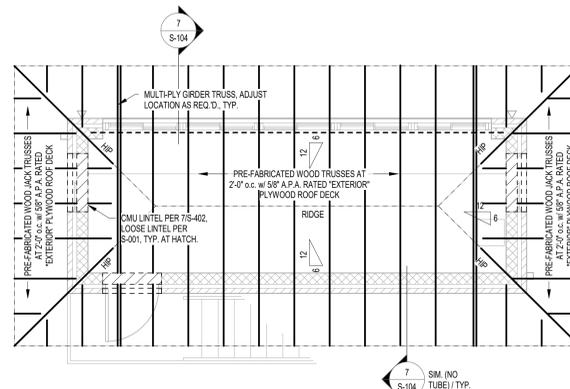
PROJECT
**CROWN POINT HIGH SCHOOL -
SPORTS SITE IMPROVEMENTS**

FRAMING PLAN GENERAL NOTES

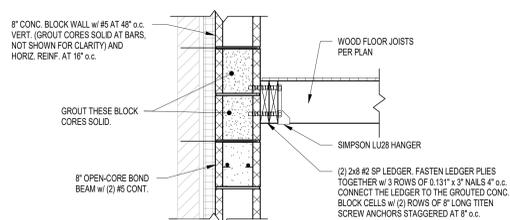
- REF S-01 SHEETS FOR STRUCTURAL NOTES, DESIGN DATA AND SCHEDULES.
- REFERENCE THE ARCH PLANS FOR LAYOUT OF ALL WALLS, OPENINGS, WALL TYPES, ETC. VERIFY ALL DIMENSIONS PRIOR TO SHOP DRAWINGS SUBMITTAL & IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
- AT BEARING OF ALL GIRDER TRUSSES, TRUSS MANUFACTURER SHALL PROVIDE THE NECESSARY HARDWARE FOR ATTACHMENT TO WALLS (TOP PLATE OR MASONRY) TO RESIST THE LOADS/REACTIONS OF ALL GIRDER TRUSSES.
- SEE THE ARCHITECTURAL DETAILS FOR ROOF TRUSS PROFILES (HEEL HEIGHTS, PITCHES, ETC.).
- ALL ROOF PANEL SHEATHING SHALL BE 5/8" APA-RATED SHEATHING. SUITABLE EDGE SUPPORT SHALL BE PROVIDED BY USE OF PANEL CLIPS OR BLOCKING BETWEEN FRAMING UNLESS OTHERWISE NOTED. FASTEN ROOF SHEATHING WITH RD COMMON @ 13" X 2 1/2" NAILS SPACED @ 6" O.C. AT SUPPORTED EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS.
- THE TRUSS SUPPLIER MUST COORDINATE WITH M.E.P. AND SPRINKLER CONTRACTORS REGARDING THE LOCATION AND WEIGHT OF ALL WATER SUPPLY MAINS AND SPRINKLER MAINS. THE TRUSSES WILL BE DESIGNED TO SUPPORT THE WEIGHT OF THESE POINT LOADS IN ADDITION TO OTHER LOADS AS SPECIFIED ON THESE PLANS. THE SPACING OF SUPPORTS FOR THESE LINES WILL BE AN IMPORTANT CONSIDERATION IN THE DESIGN OF THE TRUSSES FOR THE MAIN SUPPORT.
- ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELECTRICAL, AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NOT BE INDICATED.



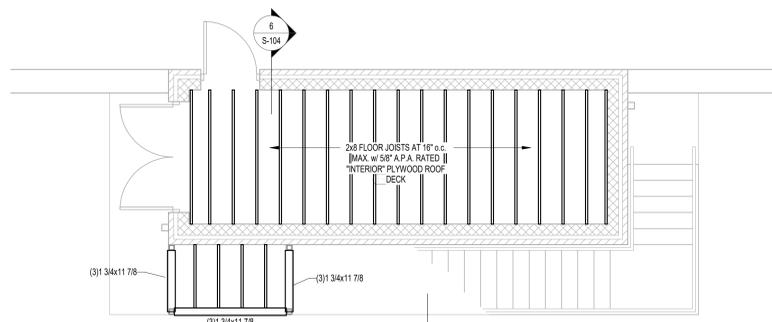
7 FRAMING SECTION
1" = 1'-0"



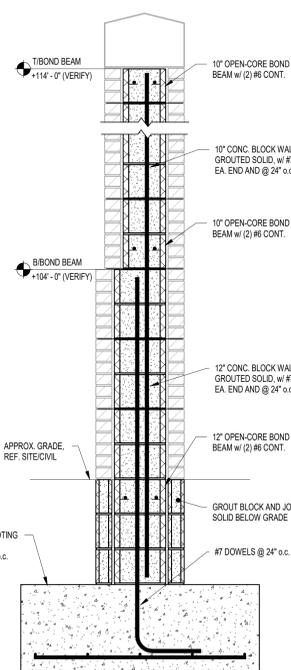
3 ROOF TRUSS BEARING - PRESS BOX
1/4" = 1'-0"



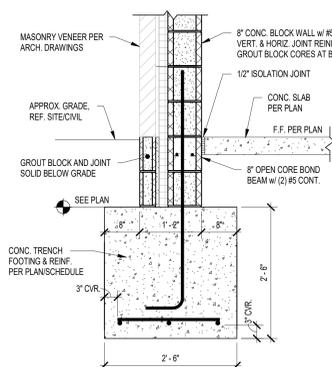
6 FRAMING SECTION - PRESS BOX 2ND FLOOR
1" = 1'-0"



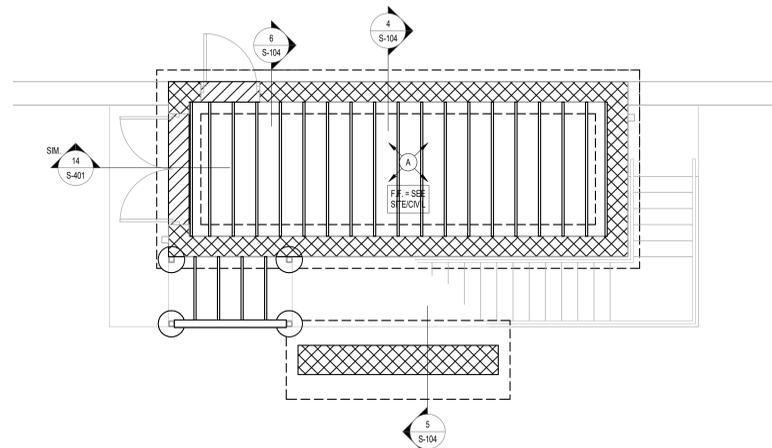
2 SECOND FLOOR FRAMING PLAN - PRESS BOX
1/4" = 1'-0"



5 FOUNDATION SECTION - WALL AT PRESS BOX
3/4" = 1'-0"



4 FOUNDATION SECTION - PRESS BOX PERIMETER
3/4" = 1'-0"



1 FOUNDATION PLAN - PRESS BOX
1/4" = 1'-0"

FOUNDATION PLAN NOTES

- REF S-01 FOR STRUCTURAL NOTES, DESIGN DATA & SCHEDULES.
- ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELECTRICAL, AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NOT BE INDICATED.
- COORDINATE EXACT SIZE & LOCATION OF ALL MECHANICAL OPENINGS IN FOUNDATION WALLS WITH THE MECHANICAL, ELECTRICAL & PLUMBING CONTRACTORS.
- ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOOR FINISH FLOOR ELEVATION, WHICH MAY VARY BUT IS INDICATED AS +100'-0" FOR REFERENCE. REFER TO THE CIVIL DRAWINGS FOR EXACT U.S.S. ELEVATION AT INDIVIDUAL STRUCTURES.
- REF ARCH. DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES. REF S-401 FOR TYPICAL FOUNDATION DETAILS.
- NOTE: PERIMETER WALL AND COLUMN FOOTINGS SHALL BE LOWERED AND/OR SLEEVED TO PASS BELOW PLUMBING LINES (I.E. SANITARY & STORM SEWERS, WATER LINES, ETC.) SHOWN ON THE PLUMBING DRAWINGS. PROVIDE FOOTING STEPS AS REQUIRED PER THE TYPICAL DETAILS ON S-401.
- COORDINATE REINFORCING DOWELS FOR CMU VERTICAL REINFORCING WITH REINF. NOTED ON PLANS & SECTIONS.
- GROUT ALL CORES OF CMU BELOW FINISH FLOOR SOLID.
- COLUMN FOOTINGS, TRENCH FOOTINGS AND WALL FOOTINGS SHALL BEAR ON APPROVED SOILS w/ A MINIMUM BEARING CAPACITY OF 3,000 PSF.
- PROVIDE THICKENED SLAB UNDER ALL INTERIOR CMU WALLS WITHOUT FOOTINGS. SEE S-401 FOR THICKENED SLAB DETAIL. LAYOUT THICKENED SLABS FROM DIMENSIONS ON THE ARCHITECT FLOOR PLANS.
- PROVIDE CONTROL/CONTRACTION JOINTS IN SLABS ON GRADE. (REF. THE TYPICAL DETAILS ON SHEET S-401). ALL JOINTS IN SLABS TO RECEIVE TWIN OR THICK-SET TERRAZZO, CERAMIC OR PORCELAIN TILE, VINYL-COMPOSITION TILE (VCT) OR VINYL SHEET GOODS, EPOXY OR SIMILAR THIN-FILM FINISH FLOORING SHALL BE CAREFULLY COORDINATED WITH THE FLOORING CONTRACTOR. THE CONTRACTOR SHALL SUBMIT SLAB JOINT LAYOUT TO ARCHITECT/ENGINEER FOR REVIEW PRIOR TO PLACING SLABS.
- FOR ARCHITECTURAL PLASTER NOT SUPPORTING STEEL COLUMNS, CONSTRUCT AS FULLY-GROUTED MASONRY PIERS OR CAST-IN-PLACE CONCRETE PIERS REINF'D w/ VERTICAL REINFORCING AT EACH CORNER.

PLAN LEGEND:

- FF DENOTES FINISH FLOOR
- T/X DENOTES TOP OF FTG. GRADE BEAM, SLAB, PER, ETC.
- B/X DENOTES BOTTOM OF FTG. GRADE BEAM, ETC.
- C.J. DENOTES SLAB ON GRADE CONTROL/CONTRACTION JOINT
- GB32x24 - 8'-0" DENOTES CONCRETE GRADE BEAM SIZE & TOP OF GRADE BEAM ELEVATION (SEE SCHEDULE)
- DENOTES WALL FOOTING WITH STEPS. REF. TYP. DETAIL ON S-401
- DENOTES COLUMN FOOTING MARK & TOP OF FTG. ELEVATION (SEE FIG. SCHED.)
- DENOTES PIPE PENETRATION THROUGH EXTERIOR WALL. REFER TO PLUMBING DRAWINGS FOR EXACT SIZE, LOCATION, AND INVERT ELEVATION. SEE DETAILS ON SHEET S-401 FOR STEPPED FOOTINGS, SLEEVES, ETC.
- DENOTES 4" CONC. SLAB ON GRADE w/ FIBERFORCE 300[®] FIBERS @ 1.5 LB/CY (OR EQUAL) & ES SYSTEM BY SPECIFICATION PRODUCTS, INC. CONSISTING OF ES INTERNAL CURE ADMIXTURE @ 4 OZ/CONT & ES CATALYST SPRAYED ON BETWEEN 800-1,000 SF/GAL OVER 15 MIL VAPOR BARRIER OR IF COMPACTED GRANULAR FILL (NOOT No. 53 OR APPROVED EQUIV.)
- FF - SEE PLAN



PROJECT
CROWN POINT HIGH SCHOOL - SPORTS SITE IMPROVEMENTS

FOR:
CROWN POINT COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

GIBRALTAR DESIGN
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PROJECT 21-120
DATE 08/18/2022
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DRAWN BY SAC/NHF
CHECKED BY SAC



REVISIONS

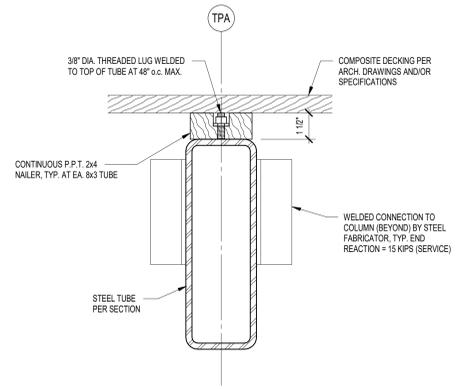
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AD-1	08/30/22	ADDENDUM 1

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AD-1	08/30/22	ADDENDUM 1

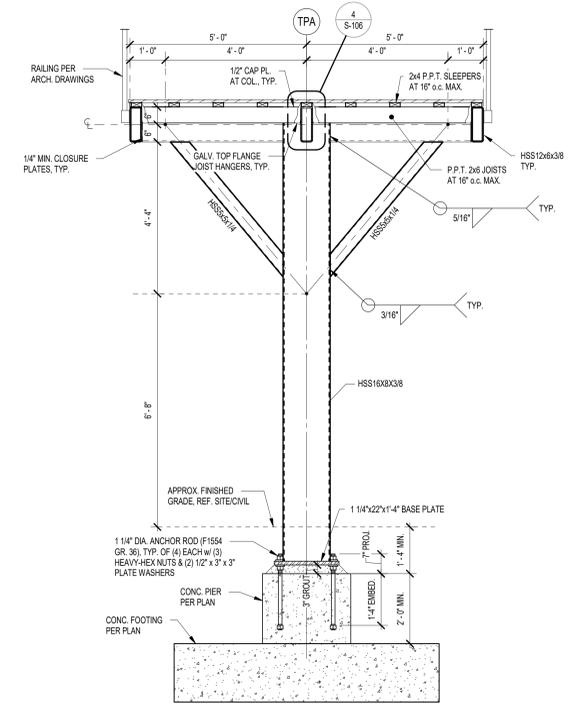
DRAWING
STRUCTURAL PLANS AND DETAILS - TENNIS PLATFORM

PROJECT
CROWN POINT HIGH SCHOOL - SPORTS SITE IMPROVEMENTS

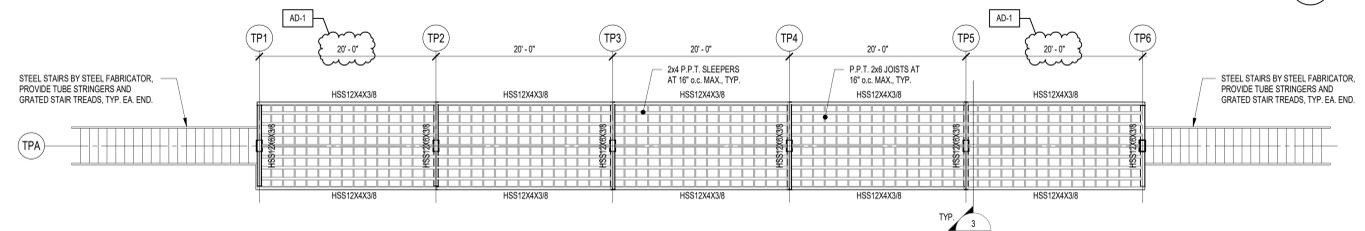
- NOTES:
- ALL EXPOSED STEEL TO BE CLASSIFIED AS A.E.S.S. CATEGORY 3.
 - PROVIDE A HIGH PERFORMANCE WEATHER-PROOF PRIMER AND FINISHED PAINT SYSTEM ON ALL STEEL SURFACE.
 - PROVIDE 1/4" DIA. WEEP HOLES AT APPROX. 1/3 POINTS OF SPAN ON BOTTOM FACE OF ALL TUBES.
 - PAIN ALL STEEL BELOW GRADE w/ 2-COATS OF BITUMINOUS PAINT. TYP.
 - PROVIDE 1/4" CLOSURE PLATES ON ALL OPEN ENDS OF TUBES.



4 FRAMING SECTION
3" = 1'-0"



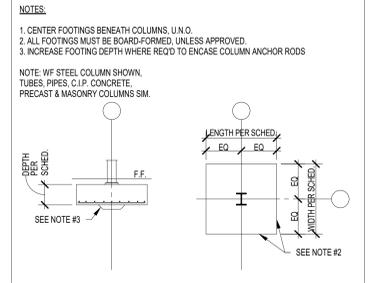
3 TENNIS PLATFORM SECTION
1/2" = 1'-0"



2 FRAMING PLAN - TENNIS PLATFORM
1/8" = 1'-0"

COLUMN FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE			REINFORCING (EACH WAY U.N.O.)
	WIDTH	LENGTH	DEPTH	
F3.0	3'-0"	3'-0"	1'-4"	(4) #5 x 2'-4"
F5x7.5	5'-0"	7'-4"	1'-8"	BOT: (5) #8 x 7'-0" w/ HOOKED ENDS (10) #8 x 4'-0" w/ HOOKED ENDS TOP: (5) #8 x 7'-0" (10) #8 x 4'-0"



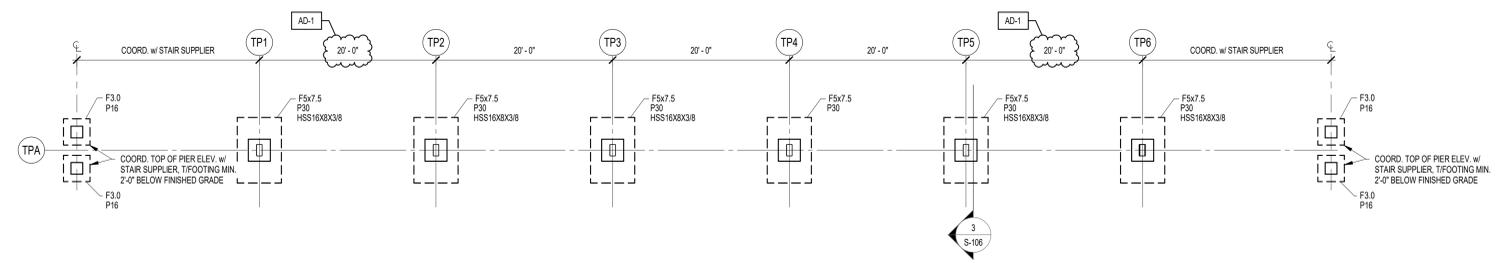
CONCRETE PIER SCHEDULE

PIER MARK	PIER SIZE	PIER REINFORCING		
		VERTICALS	TIES-SIZE & SPA.	DETAIL
P16	1'-4" x 1'-4"	(4) #6	#4 @ 8" o.c.	B
P30	2'-0" x 2'-0"	(16) #7	#4 @ 4" o.c.	A

NOTES:

- PROVIDE MIN. 1 1/2" CLEAR TO PIER TIES.
- FIRST TIE TO BE LOCATED 1 1/2" DOWN FROM TOP OF PIER.
- CONTACT THE STRUCTURAL ENGINEER FOR DIRECTION IF COLUMN ANCHOR RODS FOUL WITH PIER TIES OR VERTICALS.

DETAIL 'A' (3) SETS
DETAIL 'B' (1) SET



1 FOUNDATION PLAN - TENNIS PLATFORM
1/8" = 1'-0"



PROJECT
CROWN POINT HIGH SCHOOL - SPORTS SITE IMPROVEMENTS

FOR:
CROWN POINT COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

GIBALTAR DESIGN

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Indianapolis, IN 46250
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Phone: 317.580.5777 Fax: 317.580.5778

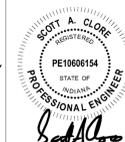
PROJECT
21-120

DATE
08/18/2022

COORDINATED BY
SAC/NHF

DRAWN BY
SAC/NHF

CHECKED BY
SAC



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REVISIONS

MARK	DATE	ISSUED FOR
AD-1	08/30/22	ADDENDUM 1

AD-1 08/30/22 ADDENDUM 1

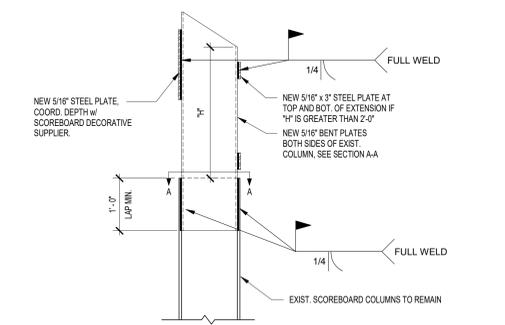
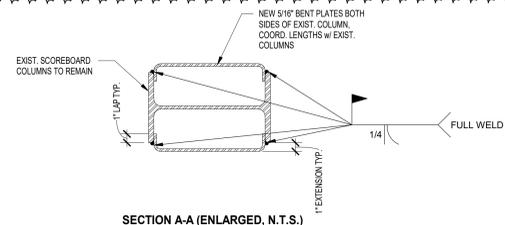
DRAWING
MISCELLANEOUS
STRUCTURAL SECTIONS
AND DETAILS

PROJECT
CROWN POINT HIGH SCHOOL - SPORTS SITE IMPROVEMENTS

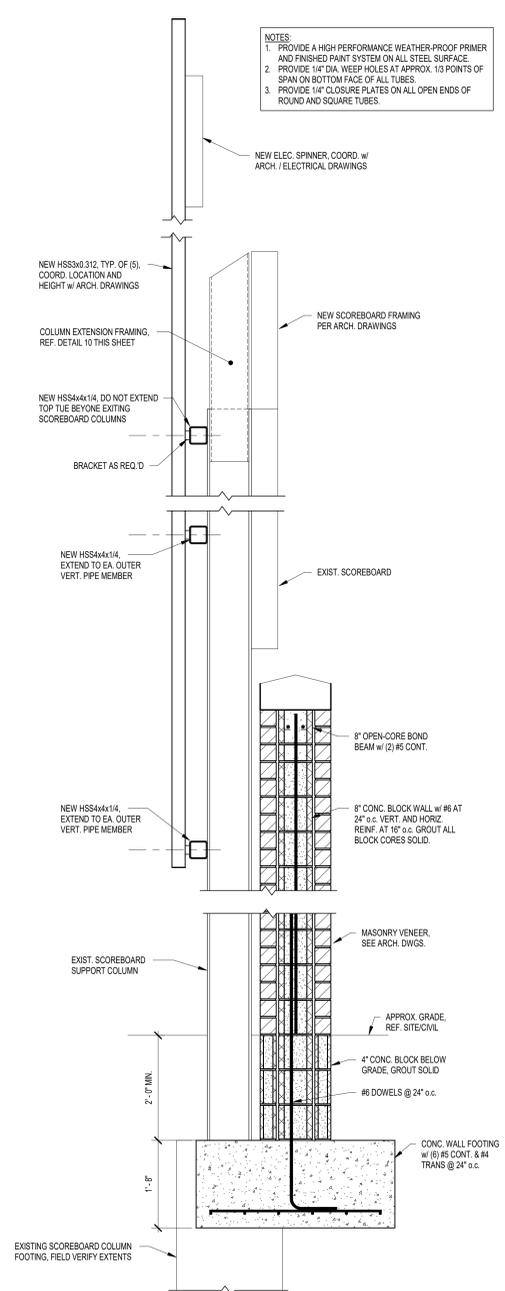
GIBALTAR DESIGN

SHEET

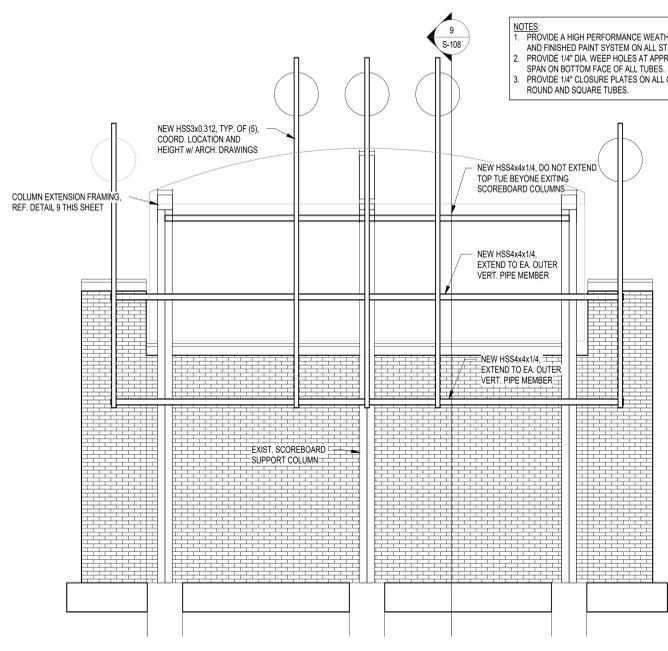
S-108



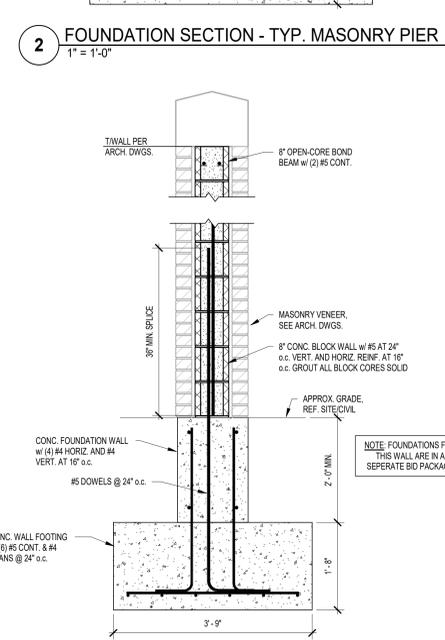
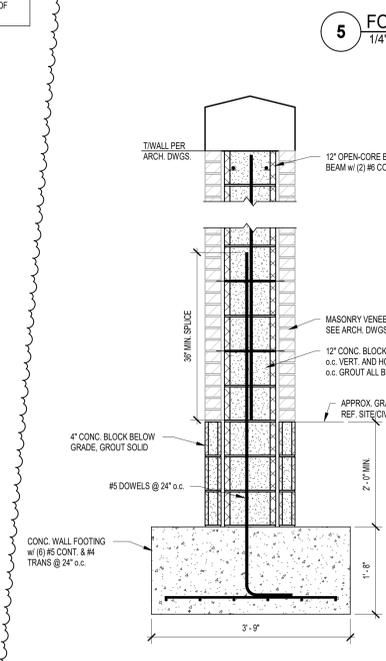
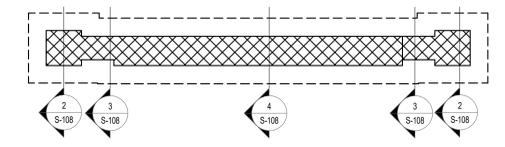
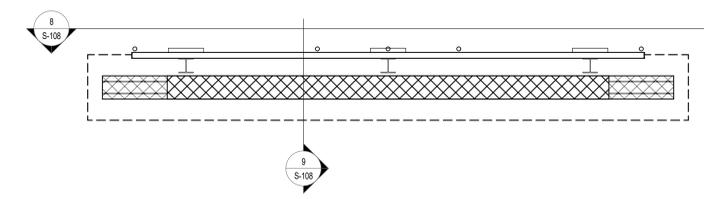
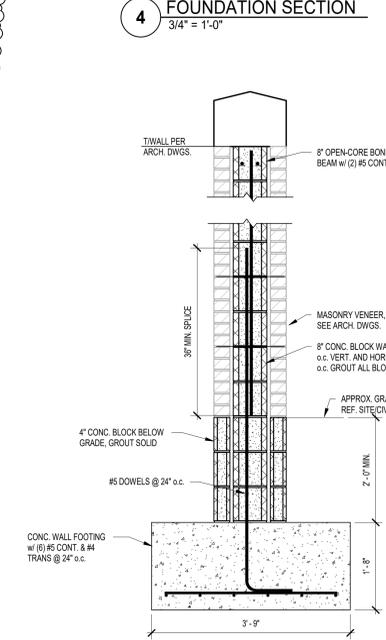
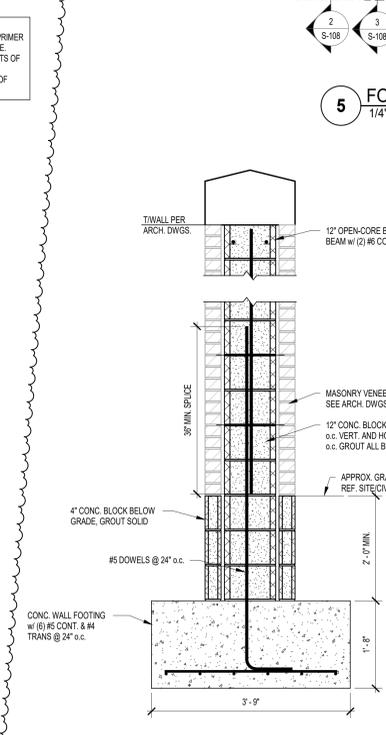
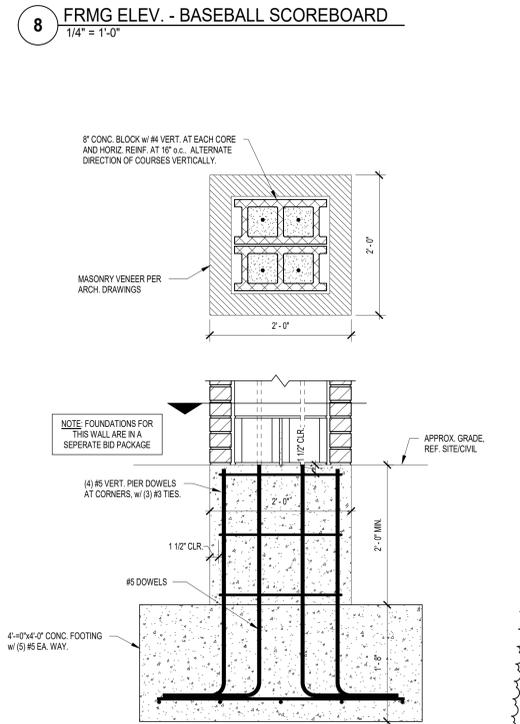
10 SCOREBOARD EXTENSIONS DETAIL
3/4" = 1'-0"

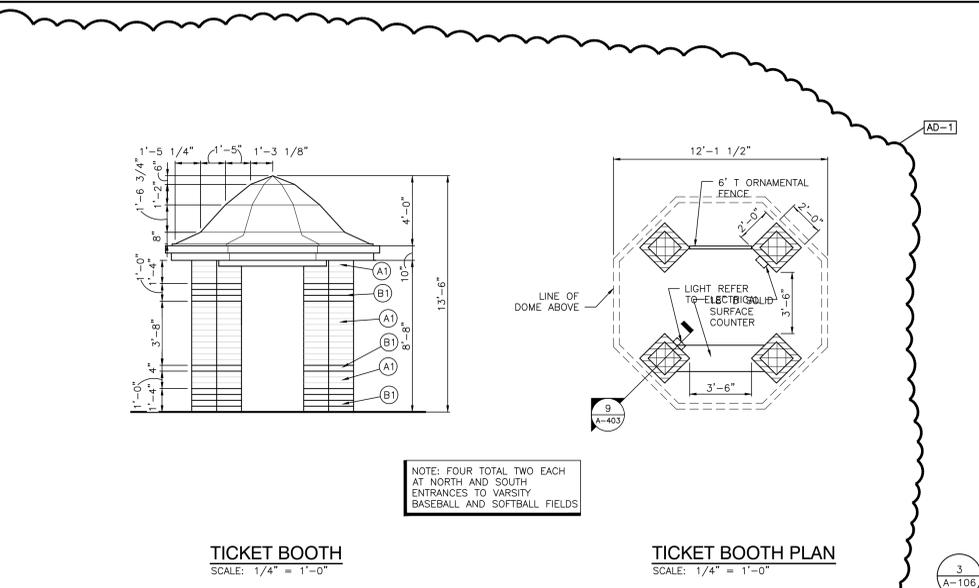
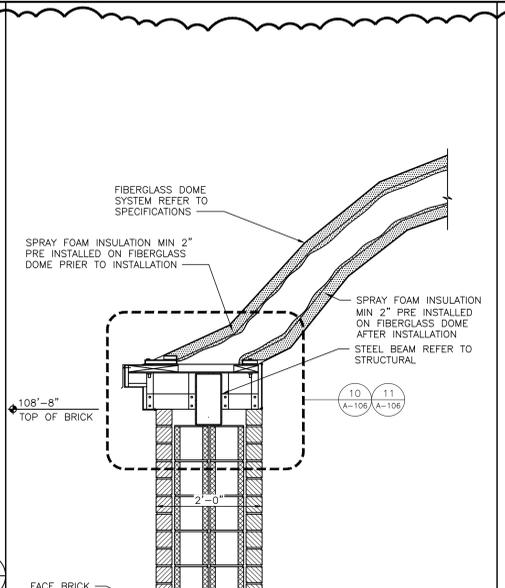
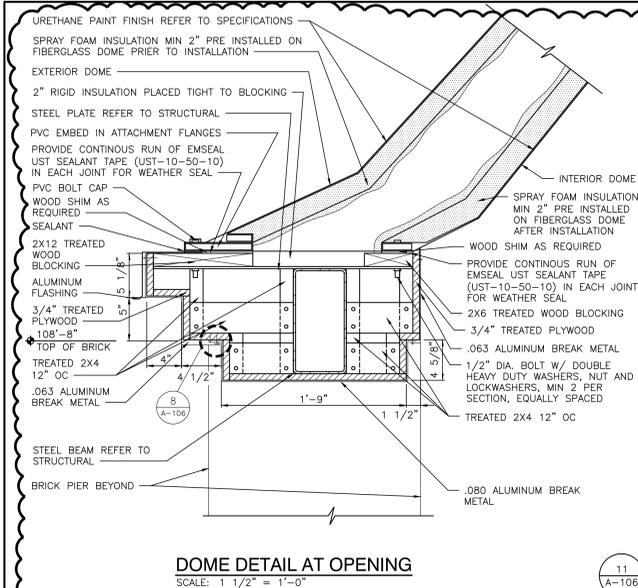


NOTES:
1. PROVIDE A HIGH PERFORMANCE WEATHER-PROOF PRIMER AND FINISHED PAINT SYSTEM ON ALL STEEL SURFACE.
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3. PROVIDE 1/4" CLOSURE PLATES ON ALL OPEN ENDS OF ROUND AND SQUARE TUBES.



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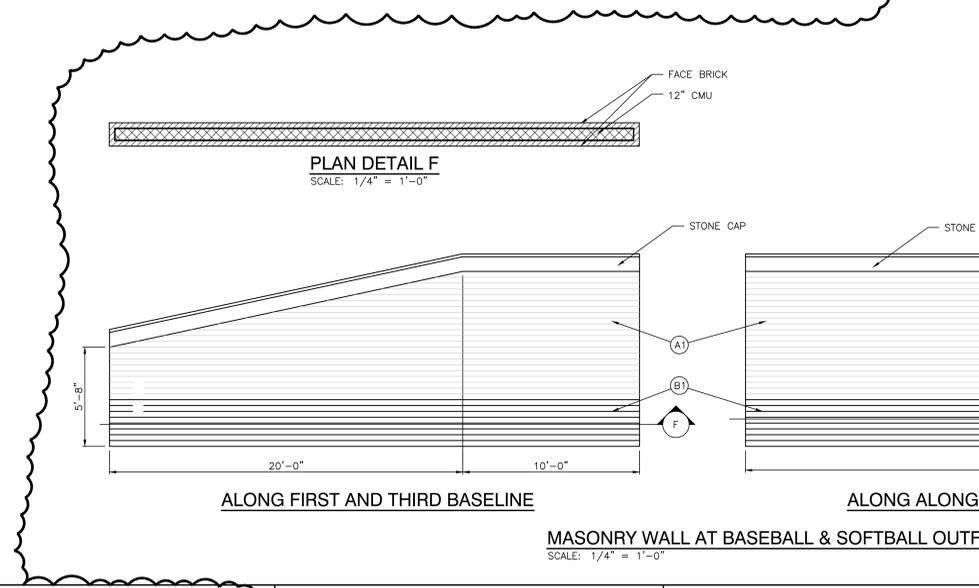
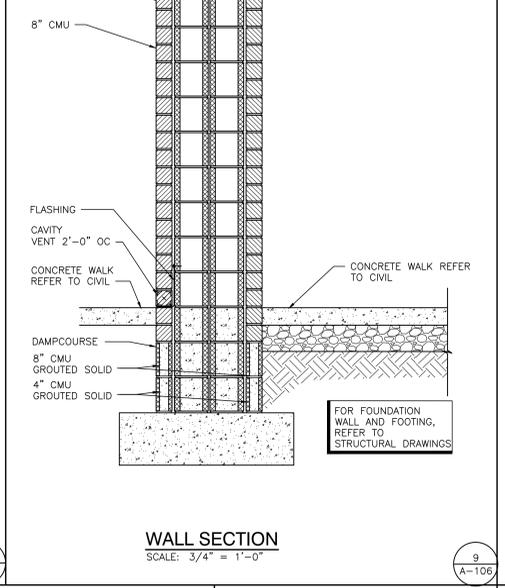
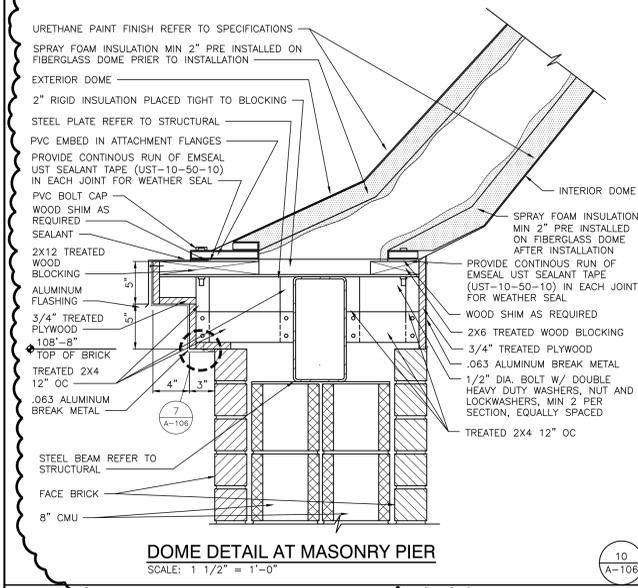


GENERAL ELEVATION NOTES:

- REFER TO STRUCTURAL DRAWINGS FOR FOUNDATION WALLS AND FOOTINGS.
- REFER TO FLOOR PLANS FOR EXTERIOR WALL SECTIONS CUTS, UNLESS INDICATED OTHERWISE.
- FOR LOCATION AND MOUNTING HEIGHTS OF CAMERAS, SPEAKERS, LIGHTS, HORNS, ETC. REFER TO ELECTRICAL AND TECHNOLOGY DRAWINGS.
- FINISH GRADE INDICATES ON ELEVATIONS ARE FOR DRAWING PURPOSES ONLY. REFER TO CIVIL DRAWINGS FOR ACTUAL GRADES. COORDINATE STEPPED FLASHINGS WITH ACTUAL GRADES AS REQUIRED FOR CELL VENTS TO BE ABOVE GRADE.
- STEP BRICK LEDGE DOWN AS REQUIRED FOR LEDGE TO BE BELOW GRADE OR CONCRETE WALK. COORDINATE WITH CIVIL DRAWINGS.
- (CJ) INDICATES CONTROL JOINT.

BRICK TYPE NOTES

- FACE BRICK (TYPE A1) COLOR A - 1/3 RUNNING BOND - 4x4x12 UTILITY.
- FACE BRICK (TYPE A2) COLOR A - SOLDIER COURSE - 4x4x12 UTILITY.
- FACE BRICK (TYPE B1) COLOR B - 1/3 RUNNING BOND - 4x4x12 UTILITY.
- FACE BRICK (TYPE C1) COLOR C - 1/3 RUNNING BOND - 4x4x12 UTILITY.

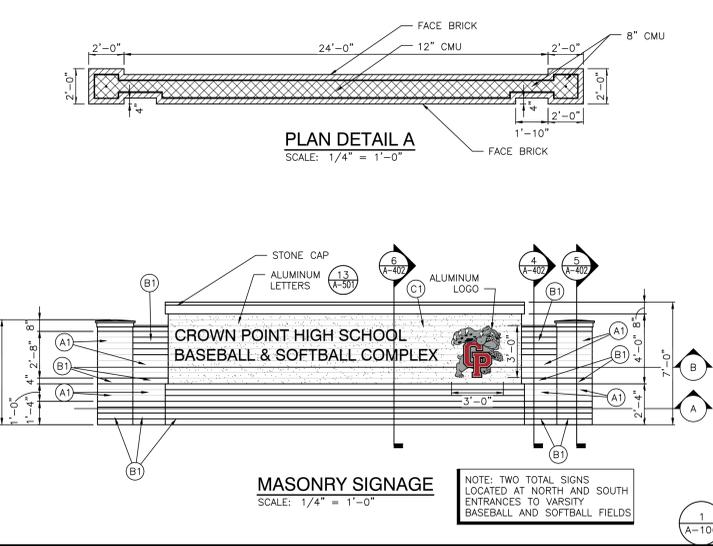
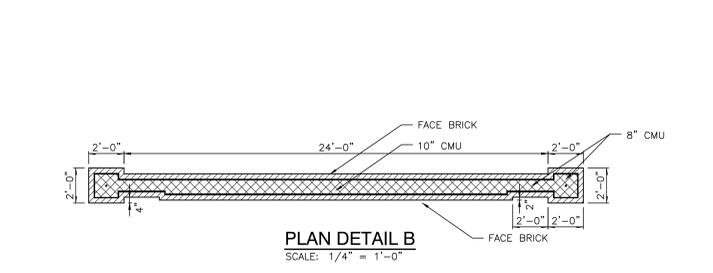
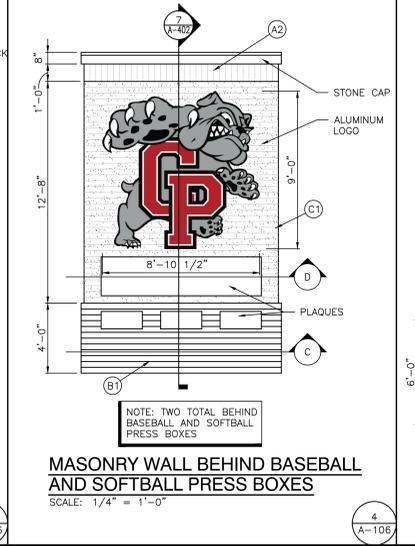
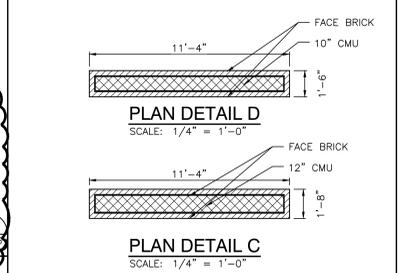
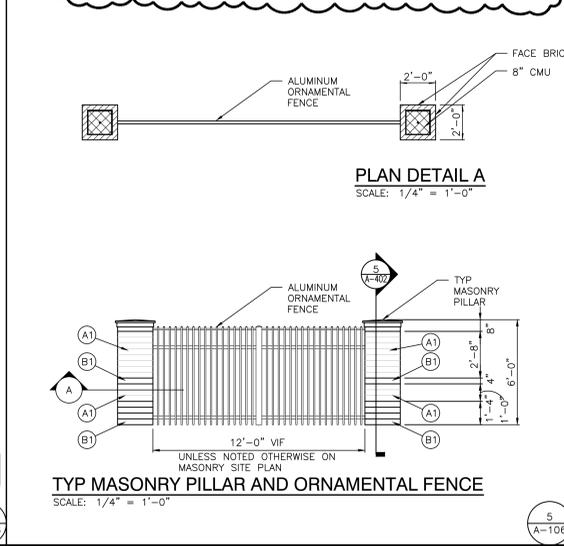
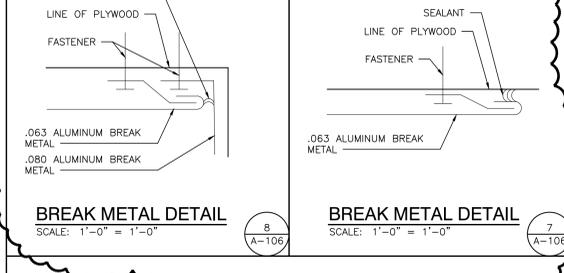
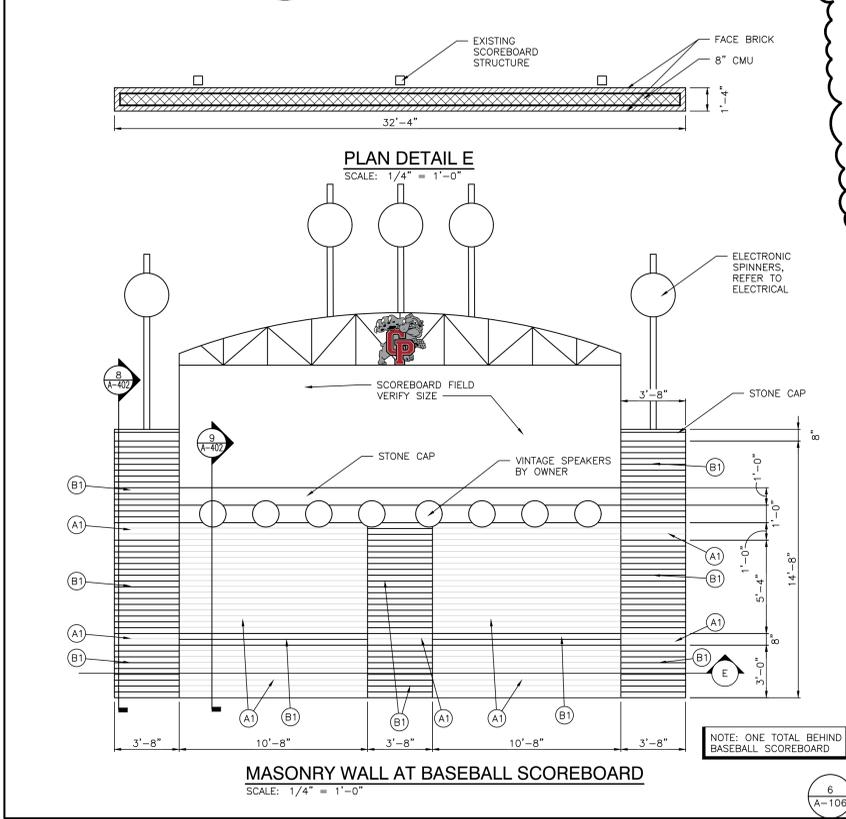


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PROJECT
CROWN POINT HIGH SCHOOL - ATHLETIC FIELDS AND SITE IMPROVEMENTS

FOR:
CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

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PROJECT
21-120
DATE
08/18/22
COORDINATED BY
DTB JPB
DRAWN BY
DTB
CHECKED BY
DTB JPB

REGISTERED ARCHITECT
JOSEPH P. BRICK
INDIANA
NO. 11600109
STATE OF INDIANA
Joseph P. Brick

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REVISIONS	MARK	DATE	ISSUED FOR
AD-1	08/30/22		ADDENDUM NO. 1

DRAWING
MISCELLANEOUS MASONRY WALL PLANS AND ELEVATIONS

PROJECT
CROWN POINT HIGH SCHOOL - ATHLETIC FIELDS AND SITE IMPROVEMENTS

© GIBRALTAR DESIGN SHEET
A-106

Wednesday, 8/31/2022 - 2:45 PM - LAST SAVED BY: DTB
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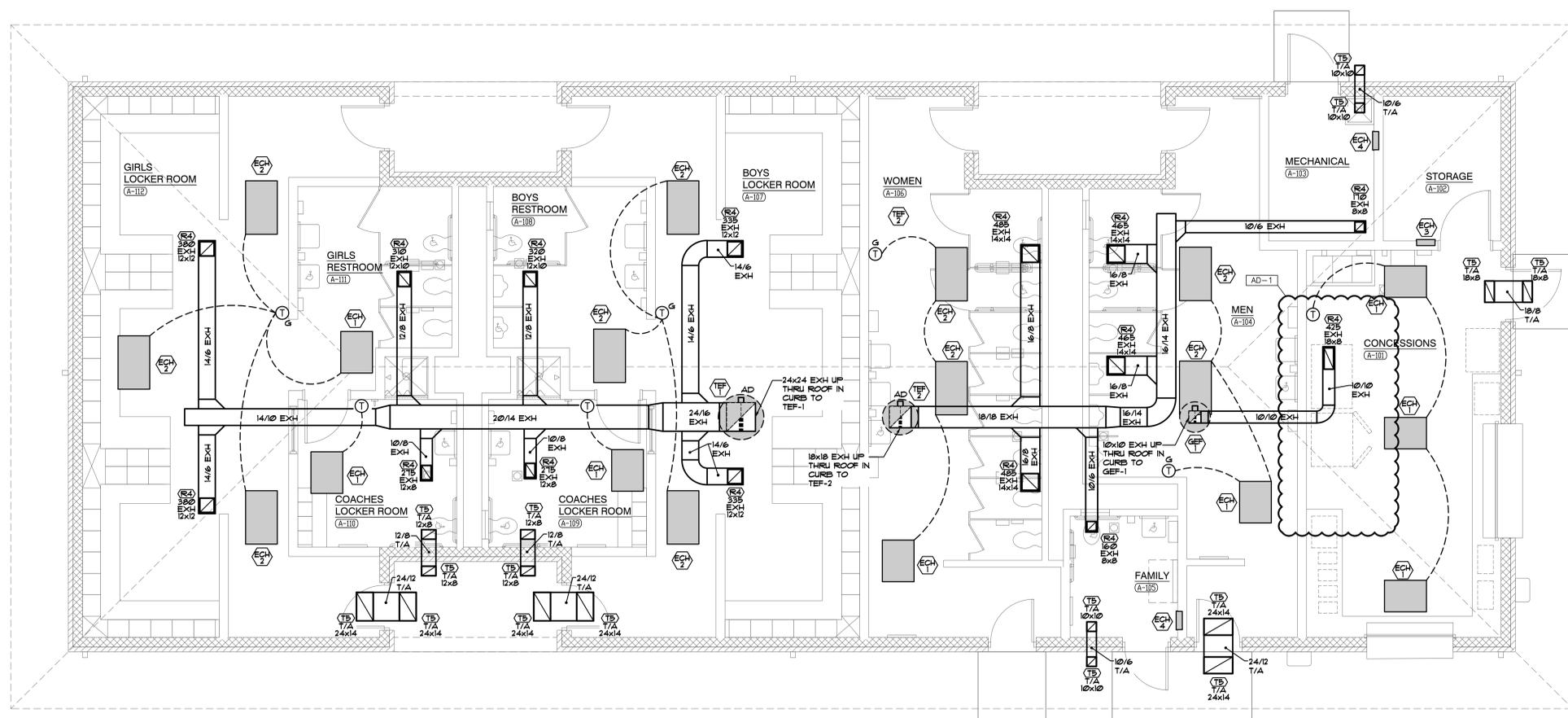
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PROJECT
**CROWN POINT HIGH SCHOOL -
ATHLETIC FIELDS AND
FIELDS AND
SITE
IMPROVEMENTS**

FOR:
CROWN POINT COMMUNITY
SCHOOL CORPORATION
CROWN POINT, INDIANA



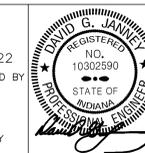
MECHANICAL HVAC PLAN
SCALE: 1/4" = 1'-0"



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PROJECT: 21-120
DATE: 08/18/22
COORDINATED BY: SM
DRAWN BY: CC
CHECKED BY: DJ



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MARK	DATE	ISSUED FOR
AD-1	08/30/22	ADDENDUM NO. 1

DRAWING
MECHANICAL HVAC PLAN

PROJECT
**CROWN POINT HIGH SCHOOL -
ATHLETIC FIELDS AND SITE
IMPROVEMENTS**

GIBRALTAR DESIGN SHEET
M-101

PLUMBING FIXTURE SCHEDULE

TAG NO.	FIXTURE/EQUIPMENT TYPE	FIXTURE/EQUIPMENT DESCRIPTION	FIXTURE/EQUIPMENT MANUFACTURER AND MODEL NO.	ACCEPTABLE MANUF.	FIXTURE VALVE/FAUCET TYPE	FIXTURE VALVE/FAUCET TYPE	ACCEPTABLE MANUF.	ACCESSORIES/REMARKS
								(SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION)
WC-1	WATER CLOSET	VITREOUS CHINA, WALL MOUNTED	AMERICAN STANDARD 2257101	NOTE 1	BATTERY SENSOR FLUSH VALVE, 1.6 GPF	AMERICAN STANDARD 6065161002	NOTE 1	AMERICAN STANDARD 5901100 SEAT
WC-2	WATER CLOSET	VITREOUS CHINA, WALL MOUNTED ADA	AMERICAN STANDARD 2257101	NOTE 1	BATTERY SENSOR FLUSH VALVE, 1.6 GPF	AMERICAN STANDARD 6065161002	NOTE 1	AMERICAN STANDARD 5901100 SEAT
UR-1	URINAL	VITREOUS CHINA, WALL MOUNTED, ADA	AMERICAN STANDARD 65920201	NOTE 1	BATTERY SENSOR FLUSH VALVE, 0.5 GPF	AMERICAN STANDARD 60632051002	NOTE 1	-
L-1	LAVATORY	VITREOUS CHINA, WALL MOUNTED, 20"x18" ADA	AMERICAN STANDARD 0355202	NOTE 1	0.5 GPM-BATTERY SENSOR, 4" CENTERS	AMERICAN STANDARD 6053205002	NOTE 2	PROVIDED WITH THERMOSTATIC MIXING VALVE, MCGUIRE #FW-2150-WC 1-1/2" FROUTAP, MCGUIRE #4216TCCLK SUPPLIES
MB-1	MOP BASIN	24x24x10 HIGH DENSITY COMPOSITE MOP BASIN	ZURN Z1936-24	NOTE 3	WALL MOUNTED SERVICE FAUCET	ZURN ZB43M4	NOTE 4	1/2" HOSE THREAD, VACUUM BREAKER, WALL BRACE
S-1	SINK	STAINLESS STEEL, FLOOR MOUNTED, THREE COMPARTMENT	ELKAY E3C16X20-0X	NOTE 5	1.5 GPM, WALL MOUNTED	ELKAY LK945GN08T4T	NOTE 2	ELKAY #S STRAINER, ELKAY #LK-53 DRAIN ASSEMBLY, MCGUIRE #4216TCCLK SUPPLIES
S-2	SINK	STAINLESS STEEL, WALL MOUNTED, 22"x19", ADA	ELKAY #ELV2219	NOTE 5	1.5 GPM-TWO LEVER HANDLE, SINGLE HOLE	ELKAY LKD2223C	NOTE 2	MCGUIRE #FW-2150-WC 1-1/2" FROUTAP, MCGUIRE #4216TCCLK SUPPLIES
SH-1	SHOWER	-	-	-	1-HANDLE PRESSURE/TEMP. BALANCED	POWERS #E110-M-2-6-B-U	NOTE #4	HANDHELD SHOWER HEAD, HOSE, WALL BRACKET, VACUUM BREAKER AND 24" SLIDEBAR
GT-1	GREASE TRAP	25 GPM, 1.3 GAL. SOLIDS, 10 GAL. LIQUID	SCHIER GBI	NOTE 6	-	-	-	-
FD-1	FLOOR DRAIN	CAST IRON BODY, ADJUSTABLE 6"x6" NICKEL BRONZE TOP	WADE 1100-G6-1	NOTE 7	-	-	-	VANDALPROOF SCREWS
FS-1	FLOOR SINK	CAST IRON, 8" DEEP, ACID RESISTING, 12"x12" TOP	WADE 9140	NOTE 7	-	-	-	ALUMINUM DOME STRAINER, SECURED HINGED GRATE, SLOPED RIM, TOP TO BE MOUNTED FLUSH WITH FLOOR
SCM	SILL COCK	NON-FREEZE, VACUUM BREAKER, REMOVABLE KEY	ZURN Z191	NOTE 8	-	-	-	-
BF-1	BOTTLE FILLER	SINGLE ARM BOTTLE FILLING STATION WALL MOUNT	ELKAY #LK4405BF	-	-	-	-	-

NOTE 1: AMERICAN STANDARD, KOHLER, ZURN, SLOAN, TOTO
 NOTE 2: ZURN, DELTA, SLOAN, CHICAGO FAUCET CO., AMERICAN STANDARD, KOHLER
 NOTE 3: ZURN, FIAT, MUSTEE, BUAN, ACORN
 NOTE 4: ZURN, DELTA, T48 BRASS, CHICAGO FAUCET CO.
 NOTE 5: ELKAY, JUST, KOHLER
 NOTE 6: SCHIER, ZURN
 NOTE 7: ZURN, JOSAM, J.R. SMITH, MIFAB, WADE
 NOTE 8: JOSAM, ZURN, J.R. SMITH, WOODFORD, CHICAGO FAUCETS



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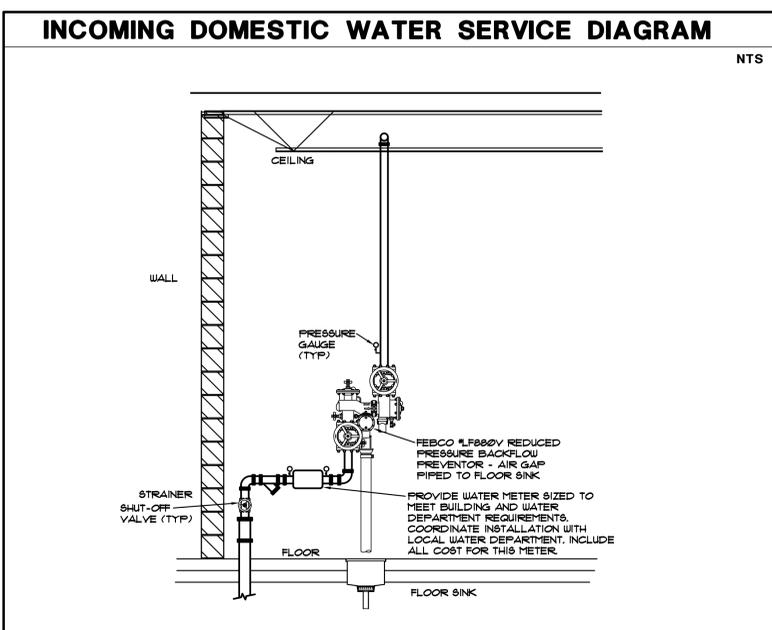
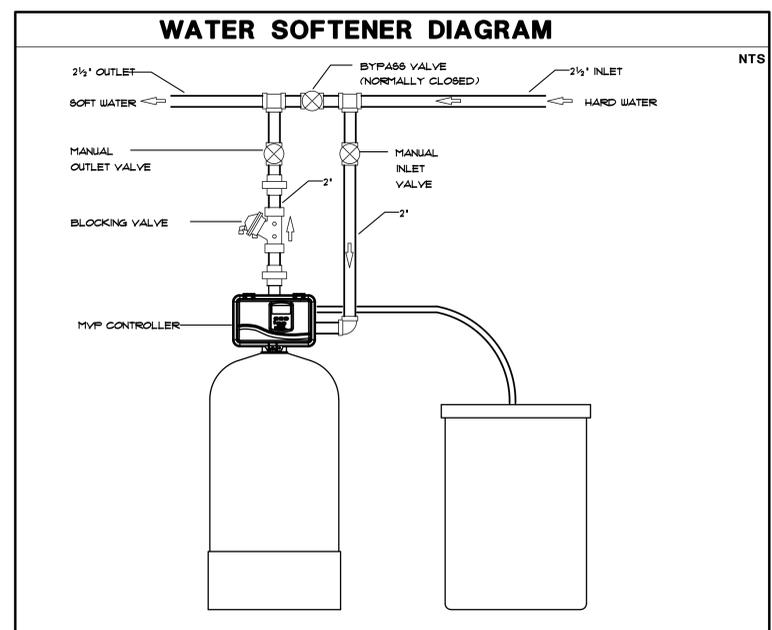
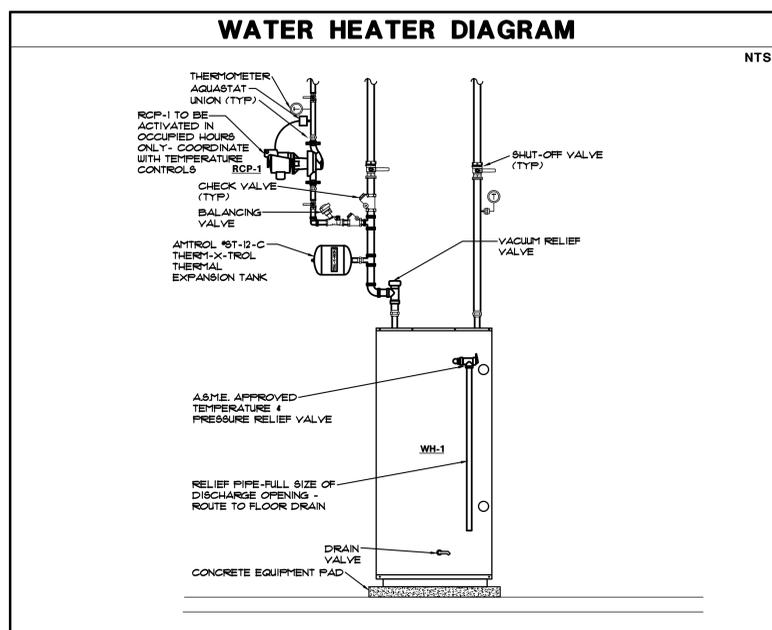
PROJECT
CROWN POINT HIGH SCHOOL - ATHLETIC FIELDS AND SITE IMPROVEMENTS

FOR:
 CROWN POINT COMMUNITY SCHOOL CORPORATION
 CROWN POINT, INDIANA

PLUMBING EQUIPMENT SCHEDULE

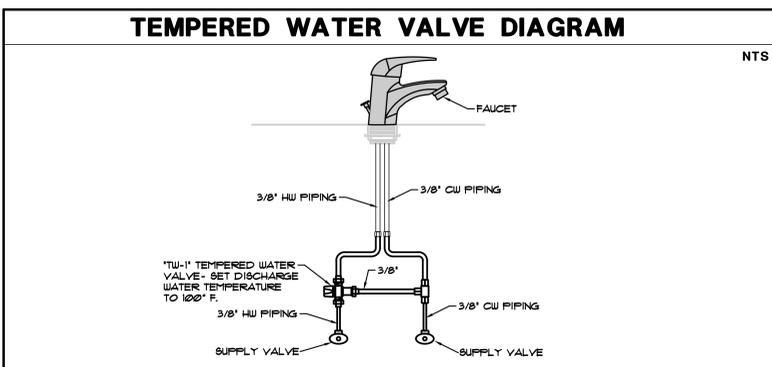
TAG NO.	FIXTURE/EQUIPMENT TYPE	FIXTURE/EQUIPMENT DESCRIPTION	FIXTURE/EQUIPMENT MANUFACTURER AND MODEL NO.	ACCEPTABLE MANUF.	ACCESSORIES/REMARKS (SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION)	ELECTRICAL DATA							
						HP	KW	FLA	AMPS	MOCP	VOLT	FH	HZ.
WH-1	WATER HEATER	30 KW, 137 GPH @ 90 DEG, 80 GAL. STORAGE	STATE #66E-80A	NOTE 1	TEMP. RELIEF VALVE AND DRAIN VALVE PIPED TO FLOOR DRAIN	-	30	18	-	-	480	3	60
RCP-1	RECIRCULATION PUMP	5.5 GPM @ 10' HEAD, ALL BRONZE CONSTRUCTION	BELL # 4 GOSSETT #LR-15B	NOTE 2	WITH STRAP ON AQUASTAT	1/2	-	-	-	-	120	1	60
WS-1	WATER SOFTENER	CONT. FLOW 55 GPM, PEAK FLOW 12.5 GPM	CULLIGAN CTM-120	-	PROVIDED WITH BRINE TANK- 24" RD. 50" HIGH	-	-	-	-	-	115	1	60

NOTE #1: LOCHINVAR, A.O. SMITH



SYMBOLS/ABBREVIATIONS

—	NEW UNDERGROUND SANITARY SEWER	CO	CLEANOUT
—	NEW COLD WATER PIPING	CW	COLD WATER
—	NEW HOT WATER PIPING	DN	DOWN
—	NEW HOT WATER RECIRCULATION PIPING	FCO	FLOOR CLEANOUT
—	NEW VENT PIPING	FD	FLOOR DRAIN
—	PIPE DOWN	FS	FLOOR SINK
—	PIPE UP	GT	GREASE TRAP
—	SHUT-OFF VALVE	HU	HOT WATER
—	CHECK VALVE	HUR	HOT WATER RECIRCULATION
—	HOSE BIBB/SILL COCK	INV. EL.	INVERT ELEVATION
—	BALANCING COCK/MANUAL FLOW CONTROL VALVE	L	LAVATORY
—	THERMOMETER	MB	MOP BASIN
—	PRESSURE GAUGE	RCP	HOT WATER RECIRCULATION PUMP
—	SHEET NOTE TAG	S	SINK
		TWH	TANKLESS WATER HEATER
		UR	URINAL
		V	VENT
		VTR	VENT THROUGH ROOF
		WC	WATER CLOSET
		WCO	WALL CLEANOUT
		YCO	YARD CLEANOUT



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PROJECT: 21-120
 DATE: 08/18/22
 COORDINATED BY: SM
 DRAWN BY: MDG
 CHECKED BY: DJ

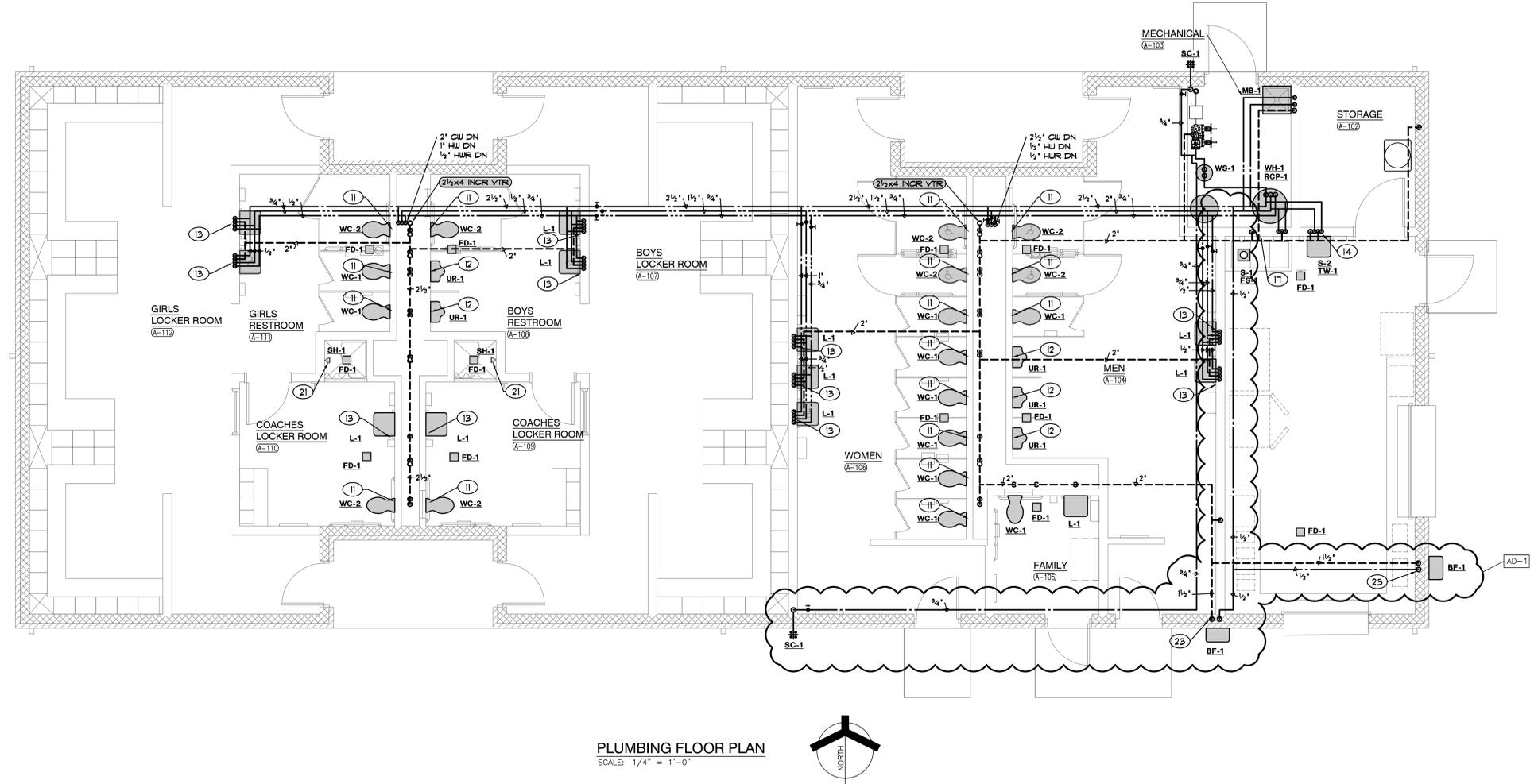
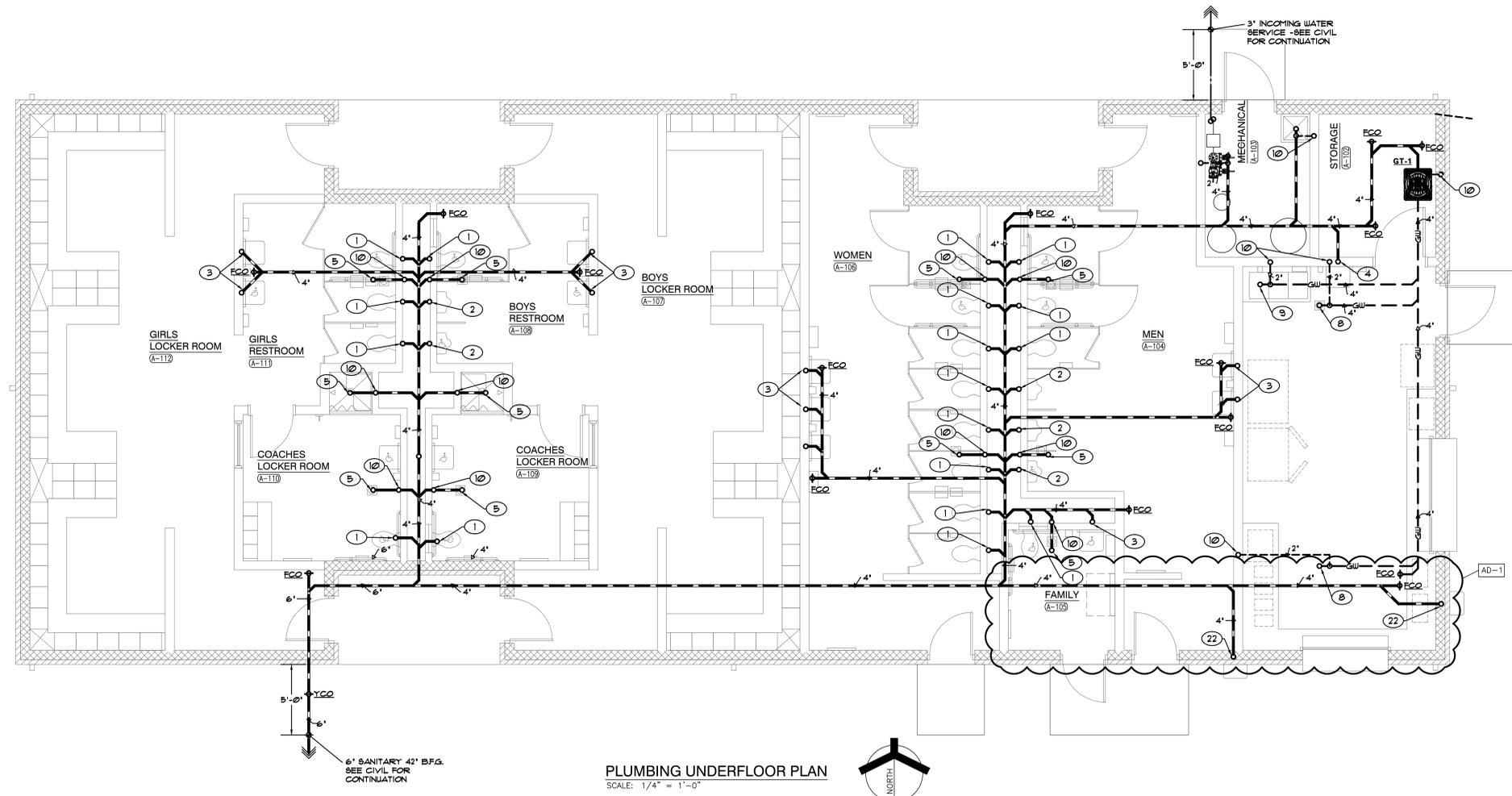
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DRAWING
PLUMBING SYMBOLS, SCHEDULES, DETAILS & DIAGRAMS

PROJECT
 CROWN POINT HIGH SCHOOL - ATHLETIC FIELDS AND SITE IMPROVEMENTS

© GIBRALTAR DESIGN SHEET
P-001



- SHEET NOTES**
- 4" SANITARY UP TO WATER CLOSET.
 - 2" SANITARY UP TO URINAL.
 - 1 1/2" SANITARY UP TO LAVATORY
 - 2" SANITARY UP TO SINK.
 - 4" SANITARY UP TO FLOOR DRAIN.
 - 4" SANITARY UP TO MOP BASIN.
 - 4" GREASY WASTE UP TO FLOOR DRAIN.
 - 4" GREASY WASTE UP TO FLOOR SINK.
 - 2" VENT UP.
 - 1 1/2" COLD WATER, 4" SANITARY, 2" VENT DOWN TO WATER CLOSET.
 - 3/4" COLD WATER, 2" SANITARY, 1 1/2" VENT DOWN TO URINAL.
 - 1/2" COLD WATER, 1/2" HOT WATER, 1 1/2" SANITARY, AND 1 1/2" VENT DOWN TO LAVATORY.
 - 1/2" COLD WATER, 1/2" HOT WATER, 2" SANITARY, AND 1 1/2" VENT DOWN TO SINK.
 - 1/2" COLD WATER, 1/2" HOT WATER, 4" SANITARY, AND 2" VENT DOWN TO MOP BASIN.
 - 2" VENT DOWN.
 - 1/2" COLD WATER AND 1/2" HOT WATER DOWN TO SINK.
 - N/A
 - 2" COLD WATER, 2" HOT WATER, AND 1/2" HOT WATER RETURN DOWN TO WATER HEATER.
 - 2 1/2" COLD WATER DOWN IN CHASE
 - 1/2" COLD WATER AND 1/2" HOT WATER DOWN TO SHOWER
 - 1 1/2" SANITARY UP TO BOTTLE FILLER
 - 1/2" COLD WATER, 1 1/2" SANITARY, AND 1 1/2" VENT DOWN TO BOTTLE FILLER

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MILLIES ENGINEERING GROUP
1993-9248400
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PROJECT
CROWN POINT HIGH SCHOOL - ATHLETIC FIELDS AND SITE IMPROVEMENTS

FOR:
CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

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PROJECT
21-120
DATE
08/18/22
COORDINATED BY
SM
DRAWN BY
MDG
CHECKED BY
DJ

REGISTERED ENGINEER
DAVID G. JAMIESON
NO. 10302590
STATE OF INDIANA

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DRAWING
PLUMBING PLANS

PROJECT
CROWN POINT HIGH SCHOOL - ATHLETIC FIELDS AND SITE IMPROVEMENTS

GIBRALTAR DESIGN SHEET
P-101

DP-1												
TOTAL KW: 3781		ENCLOSURE: NEMA1		PHASE: 3*		VOLTAGE: 277 / 480						
MOUNTING: SURFACE		BUSSING: COPPER		FAULT CURRENT RATING: 65K		AIC		MCC(A/MP) 600				
FEEDER: 2 SETS - 4 #30 MCM 4 1/4 GRD. - 2 1/2" C.		LOCATION: MECH RM										
LOAD DESCRIPTION	TRIP	POLE	LOAD			CCT. NO.	LOAD			TRIP	POLE	LOAD DESCRIPTION
			A*	B*	C*		A*	B*	C*			
HP-1	200	3	33240	33240	33240	1	2	30000	3	4	HP-2	
						5	6	28200	200	3		
POLE F1	30	3	6011	6011	6011	7	8	17640	10	10	PP-1 VIA XFMR	
						11	12	18500	15	15		
POLE F2	30	3	6011	6011	6011	13	14	1520	15	16	PP-B VIA XFMR	
						17	18	3300	20	20		
POLE F3	30	3	6011	6011	6011	19	20	1520	21	22	PP-B VIA XFMR	
						23	24	3300	25	26		
POLE F4	30	3	6011	6011	6011	27	28	8000	29	30	FOOTBALL VIA XFMR	
						31	32	8000	33	34		
PARKING LTG F1/F2	15	3	900	900	900	35	36		37	38	SPARE	
						39	40		41	42	SPARE	
SPD	60	3				41	42				SPARE	
			50184	50184	50184				10110	11346	61470	
*PROVIDE WITH 100% RATED ELECTRONIC ADJUSTABLE TRIP MCB NOTE: REFER TO GENERAL NOTE 'B' FOR ADDITIONAL INFORMATION												
TOTAL: 378146 A* 128984 B* 129330 C* 194662												

HP-1												
TOTAL KW: 981		ENCLOSURE: NEMA1		PHASE: 3*		VOLTAGE: 277 / 480						
MOUNTING: SURFACE		BUSSING: COPPER		FAULT CURRENT RATING: 42K		AIC		MCC(A/MP) 200				
FEEDER: 4 #30 4 1/4 GRD. - 2" C.		LOCATION: STORAGE										
LOAD DESCRIPTION	TRIP	POLE	LOAD			CCT. NO.	LOAD			TRIP	POLE	LOAD DESCRIPTION
			A*	B*	C*		A*	B*	C*			
ECH-2	15	3	3324	3324	3324	1	2	3324	3	4	ECH-2	
						5	6	3324	15	15		
ECH-2	15	3	3324	3324	3324	7	8	3324	9	10	ECH-2	
						11	12	3324	13	14		
ECH-2	15	3	3324	3324	3324	15	16	3324	17	18	ECH-2	
						19	20	3324	21	22		
ECH-2	15	3	3324	3324	3324	21	22		23	24	SPARE	
						25	26		27	28	SPARE	
ECH-2	15	3	3324	3324	3324	29	30		31	32	SPARE	
						33	34		35	36	SPARE	
ECH-2	15	3	3324	3324	3324	37	38		39	40	SPARE	
						41	42				SPARE	
TOTAL: 98120 A* 33240 B* 33240 C* 33240												

HP-2												
TOTAL KW: 885		ENCLOSURE: NEMA1		PHASE: 3*		VOLTAGE: 277 / 480						
MOUNTING: SURFACE		BUSSING: COPPER		FAULT CURRENT RATING: 42K		AIC		MCC(A/MP) 200				
FEEDER: 4 #30 4 1/4 GRD. - 2" C.		LOCATION: STORAGE										
LOAD DESCRIPTION	TRIP	POLE	LOAD			CCT. NO.	LOAD			TRIP	POLE	LOAD DESCRIPTION
			A*	B*	C*		A*	B*	C*			
ECH-1	15	3	1662	1662	1662	1	2	1662	3	4	ECH-1	
						5	6	1662	7	8		
ECH-4	25	1	4800	4800	4800	9	10	1662	11	12	ECH-1	
ECH-3	15	1	3000	3000	3000	13	14	1662	15	16	ECH-1	
WH-1	25	3	5000	5000	5000	17	18	1662	19	20	ECH-1	
						21	22	1662	23	24		
WH-1	25	3	5000	5000	5000	25	26	1662	27	28	ECH-1	
						29	30	1662	31	32		
LIFT STATION	15	3	1934	1934	1934	33	34	1662	35	36	ECH-1	
						37	38	1662	39	40		
SPARE						41	42	1662			ECH-1	
								1662				
TOTAL: 88410 A* 30000 B* 30000 C* 28200												

PP-1												
TOTAL KW: 63.8		ENCLOSURE: NEMA-1		PHASE: 3*		VOLTAGE: 120 / 208						
MOUNTING: SURFACE		BUSSING: COPPER		FAULT CURRENT RATING: 22000		AIC		MCC(A/MP) 225				
FEEDER: 4 #4 4 1/4 GRD. - 2 1/2" C.		LOCATION: STORAGE										
LOAD DESCRIPTION	TRIP	POLE	LOAD			CCT. NO.	LOAD			TRIP	POLE	LOAD DESCRIPTION
			A*	B*	C*		A*	B*	C*			
HAND DRYER	20	1	1600	1600	1600	1	2	600	3	4	RFAC	
HAND DRYER	20	1	1600	1600	1600	5	6	400	7	8	CONV RECEIPT	
HAND DRYER	20	1	1600	1600	1600	9	10	600	11	12	MPF	
HAND DRYER	20	1	1600	1600	1600	13	14	1500	15	16	HOT DOG	
CONV RECEIPT	20	1	1000	1000	1000	17	18	1600	19	20	NACHO	
CONV RECEIPT	20	1	1000	1000	1000	21	22	1600	23	24	COFFEE	
CONV RECEIPT	20	1	800	800	800	25	26	800	27	28	COCCOA	
CONV RECEIPT	20	1	4160	4160	4160	29	30	800	31	32	MICROWAVE	
CONV RECEIPT	20	1	1500	1500	1500	33	34	800	35	36	CONV RECEIPT	
ROOF RECEIPT	20	1	600	600	600	37	38	800	39	40	CONV RECEIPT	
TEF-1	20	1	1920	1920	1920	41	42	800	43	44	CONV RECEIPT	
TEF-2	20	1	1656	1656	1656	45	46	800	47	48	CONV RECEIPT	
GEF-1	20	1	20	20	20	49	50	800	51	52	LTG	
EXIT SIGNS	20	1	20	20	20	53	54	800	55	56	LTG	
SCOREBOARD	20	1	1200	1200	1200	57	58	800	59	60	LTG	
SCOREBOARD	20	1	1200	1200	1200	61	62	800	63	64	LTG	
HAND DRYER	20	1	1600	1600	1600	65	66	200	67	68	EXT LTG	
HAND DRYER	20	1	1600	1600	1600	69	70	200	71	72	EXT LTG EM	
HAND DRYER	20	1	1600	1600	1600	73	74	100	75	76	EXT LTG NL FLAG	
HAND DRYER	20	1	1600	1600	1600	77	78	100	79	80	PATH LTG 12AM	
HAND DRYER	20	1	1600	1600	1600	81	82	100	83	84	PATH LTG NL	
SPARE	20	1				85	86		87	88	US-1/RCB-1	
SPARE	20	1				89	90		91	92	SPARE	
SPARE	20	1				93	94		95	96	SPARE	
TOTAL: 63844 A* 19240 B* 22816 C* 21788												

PP-B												
TOTAL KW: 17.6		ENCLOSURE: NEMA-1		PHASE: 3*		VOLTAGE: 120 / 208						
MOUNTING: SURFACE		BUSSING: COPPER		FAULT CURRENT RATING: 22000		AIC		MCC(A/MP) 100				
FEEDER: 4 #2 4 1/8 GRD. - 1 1/2" C.		LOCATION: PRESS BOX BLDG										
LOAD DESCRIPTION	TRIP	POLE	LOAD			CCT. NO.	LOAD			TRIP	POLE	LOAD DESCRIPTION
			A*	B*	C*		A*	B*	C*			
PTAC-1	40	2	3120	3120	3120	1	2	400	3	4	CONV RECEIPT	
SOUND SYSTEM	20	1	1000	1000	1000	5	6	400	7	8	CONV RECEIPT	
SOUND SYSTEM	20	1	1000	1000	1000	9	10	400	11	12	CONV RECEIPT	
EXT LTG	20	1	300	300	300	13	14	400	15	16	CONV RECEIPT	
LTG	20	1	1000	1000	1000	17	18	600	19	20	EXT RECEIPT	
SIGN	20	3	1000	1000	1000	21	22	600	23	24	LV SERVICE	
TICKET PUR/LTG	20	1	1000	1000	1000	25	26	600	27	28	LV SERVICE	
TICKET PUR/LTG	20	1	1000	1000	1000	29	30		31	32	SPARE	
SPARE						33	34		35	36	SPARE	
SPARE						37	38		39	40	SPARE	
SPARE						41	42				SPARE	
TOTAL: 17640 A* 7520 B* 6820 C* 3300												

PP-S												
TOTAL KW: 17.6		ENCLOSURE: NEMA-1		PHASE: 3*		VOLTAGE: 120 / 208						
MOUNTING: SURFACE		BUSSING: COPPER		FAULT CURRENT RATING: 22000		AIC		MCC(A/MP) 100				
FEEDER: 4 #2 4 1/8 GRD. - 1 1/2" C.		LOCATION: PRESS BOX BLDG										
LOAD DESCRIPTION	TRIP	POLE	LOAD			CCT. NO.	LOAD			TRIP	POLE	LOAD DESCRIPTION
			A*	B*	C*		A*	B*	C*			
PTAC-1	40	2	3120	3120	3120	1	2	400	3	4	CONV RECEIPT	
SOUND SYSTEM	20	1	1000	1000	1000	5	6	400	7	8	CONV RECEIPT	
SOUND SYSTEM	20	1	1000	1000	1000	9	10	400	11	12	CONV RECEIPT	
EXT LTG	20	1	300	300	300	13	14	400	15	16	CONV RECEIPT	
LTG	20	1	1000	1000	1000	17	18	600	19	20	EXT RECEIPT	
SIGN	20	3	1000	1000	1000	21	22	600	23	24	LV SERVICE	
TICKET PUR/LTG	20	1	1000	1000	1000	25	26	600	27	28	LV SERVICE	
TICKET PUR/LTG	20	1	1000	1000	1000	29	30		31	32	SPARE	
SPARE						33	34		35	36	SPARE	
SPARE						37	38		39	40	SPARE	
SPARE						41	42				SPARE	
TOTAL: 17640 A* 7520 B* 6820 C* 3300												



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PROJECT
CROWN POINT HIGH SCHOOL - ATHLETIC FIELDS AND SITE IMPROVEMENTS

FOR:
CROWN POINT COMMUNITY SCHOOL CORPORATION
CROWN POINT, INDIANA

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PROJECT: 21-120
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REVISIONS		
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EXISTING HIGH SCHOOL BUILDING
FF=776.70

WEIGHTS/TURF
ADDITION
FF=776.70

INV. = 762.20±

SIDEWALK

SHEET NOTES

1. NEW BASEBALL SCOREBOARD
2. DUGOUT - SEE EPI02 FOR TYPICAL LAYOUT
3. TENNIS VIEWING PLATFORM SEE ELI02 FOR LAYOUT
4. TICKET BOOTH. SEE ELI02 FOR TYPICAL LAYOUT
5. (U) NEW 4" TO NEW UTILITY TRANSFORMER. DIRECTIONAL BORE AS REQUIRED TO MINIMIZE SITE DISTURBANCE. COORDINATE REQUIREMENTS WITH UTILITY AND WITH EXISTING UNDERGROUND UTILITIES.



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PROJECT

**CROWN POINT
HIGH SCHOOL -
ATHLETIC
FIELDS AND
SITE
IMPROVEMENTS**

FOR:
CROWN POINT COMMUNITY
SCHOOL CORPORATION
CROWN POINT, INDIANA

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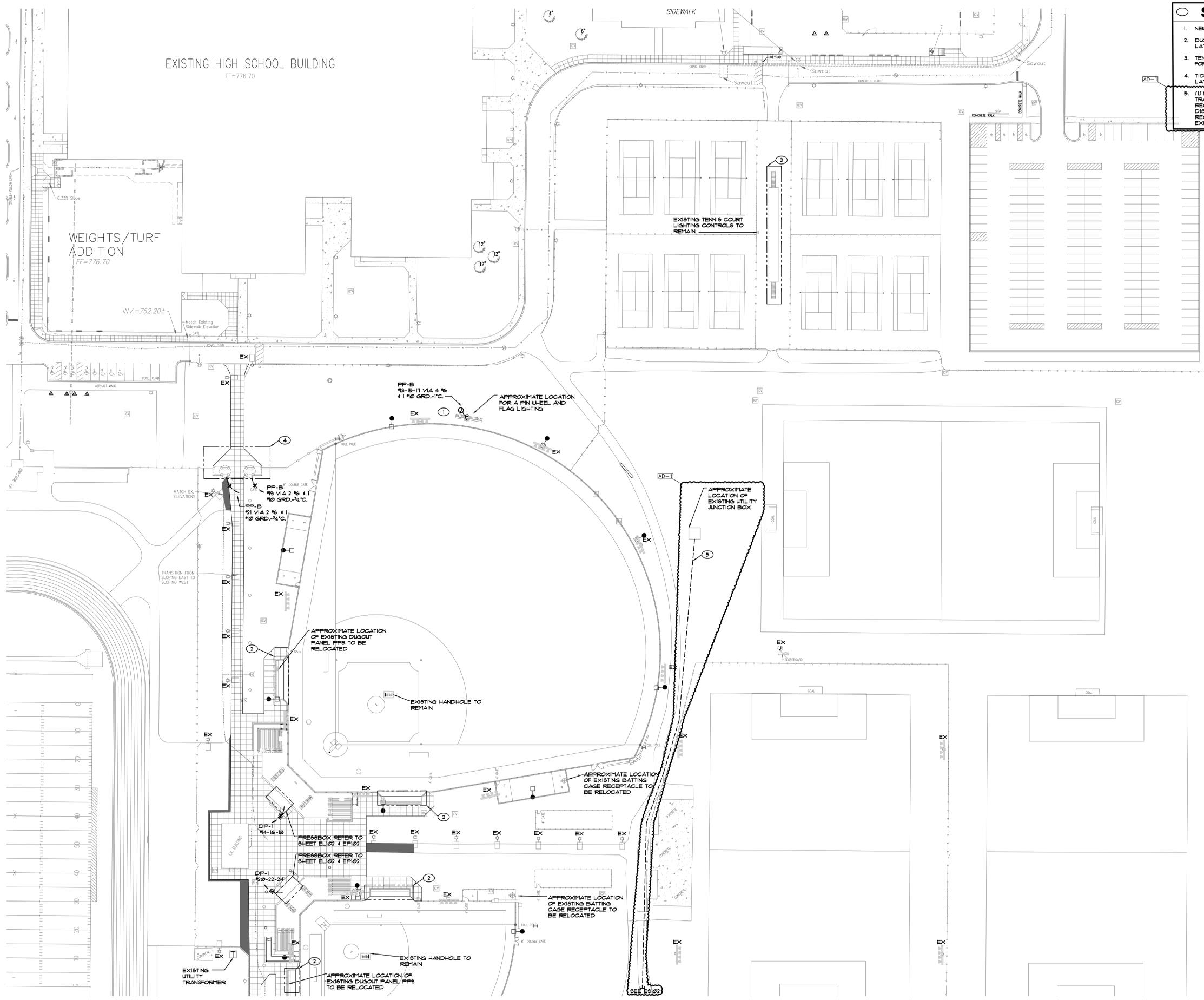
DRAWING
PARTIAL ELECTRICAL SITE PLAN

PROJECT
CROWN POINT HIGH SCHOOL -
ATHLETIC FIELDS AND SITE
IMPROVEMENTS

GIBALTAR DESIGN SHEET
ES101

PARTIAL ELECTRICAL SITE PLAN

SCALE: 1" = 40'-0"



GENERAL NOTES

1. DEVICES AND EQUIPMENT WITH A CIRCUIT TAG WITH AN 'H' PREFIX SHALL BE CONNECTED TO THE CIRCUITS INDICATED IN PANEL HP-1. DEVICES AND EQUIPMENT WITH A CIRCUIT TAG WITH AN 'HA' PREFIX SHALL BE CONNECTED TO THE CIRCUITS INDICATED IN PANEL HP-1.
2. DEVICES AND EQUIPMENT WITH A STANDARD CIRCUIT TAG SHALL BE CONNECTED TO THE CIRCUITS INDICATED IN PANEL PP-1.
3. VERIFY AND PROVIDE ROUGH-IN FOR ALL LOW VOLTAGE DEVICES AND EQUIPMENT. VERIFY REQUIREMENTS WITH LOW VOLTAGE DESIGNER DRAWINGS, COMPLETE AS REQUIRED.

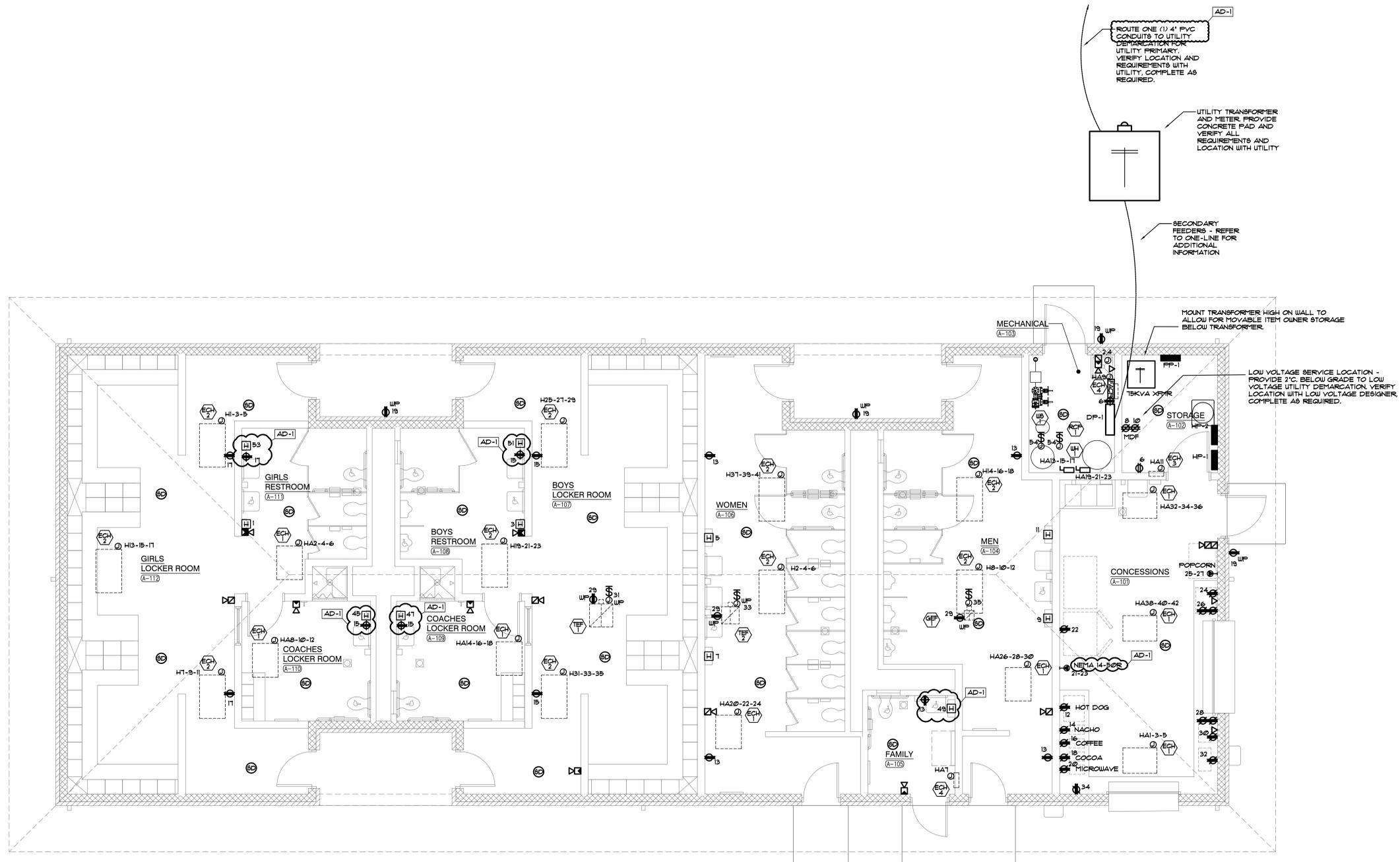


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DRAWING
ELECTRICAL POWER PLAN

PROJECT
CROWN POINT HIGH SCHOOL - ATHLETIC FIELDS AND SITE IMPROVEMENTS

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EP101

ELECTRICAL POWER PLAN
SCALE: 1/4" = 1'-0"

