

ADDENDUM NO. 2

September 12, 2022

**Greensburg Community High School
Stadium & Site Improvements:**

**1000 E. Central Ave.
Greensburg, IN 47240**

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 9, 2022, by Fanning/Howey. 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 2-1 – ADD 2-2, and attached Fanning/Howey's Addendum No. 2, dated September 8, 2022, consisting of 3 Pages, Specification Section 26 00 02 - Electrical Specifications. and Revised Drawing Sheets: GD1.00, G1.00 and New Drawing Sheet E2.01.

GENERAL NOTE

Below is the link for the Optional Virtual Bid Opening, which Bids are due September 15, at 2:00PM (local time)

Microsoft Teams meeting

Join on your computer, mobile app or room device

[Click here to join the meeting](#)

Or call in (audio only)

[+1 317-762-3960,,785331632#](#) United States, Indianapolis

Phone Conference ID: 785 331 632#

A. **SPECIFICATION SECTION 01 12 00 MULTIPLE CONTRACT SUMMARY**

1. Paragraph 3.03 Bid Categories

A. **BID CATEGORY NO. 1 – GENERAL TRADES**

Add the Following Specification Section:

26 00 02 Electrical Specifications

Revise the Following Clarification:

8. Relocate excess spoils to a designated location onsite.

Add the Following Clarifications:

14. Provide all Electrical & Technology requirements as indicated on Electrical Site Plan Sheet E2.01.

15. Bid Category No. 02 provides excavation required for installation of perimeter under-drainage and concrete curbing.

16. Provide all required asphalt patch work required for fence demolition/rework per Site Demolition Plan note 18.

B. **BID CATEGORY NO. 2 – SYNTHETIC FIELD**

Add the Following Clarifications:

4. Provide all work associated with perimeter trench drain system and concrete curbing in Track "D" Zone. Include final connection with collector pipe system.

5. Provide excavation required for installation of perimeter under-drainage and concrete curbing. Relocate excess spoils to a designated location onsite. All other excavation provided by Bid Category No. 01.

ADDENDUM NO. 2

Greensburg Community High School Stadium and Site Improvements

Greensburg Community School Corporation
Greensburg, Indiana

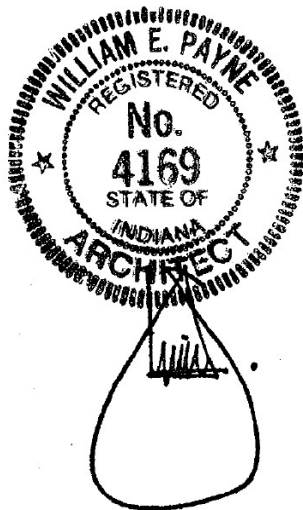
Project No. 221055.06

Index of Contents

Addendum No. 2, 5 items, 2 pages
New Project Manual Sections: 26 00 02 – Electrical Specifications and 26 00 05 – Electrical Demolition
New Drawing Sheet: E2.01
Revised Drawing Sheets: G1.00 and GD1.00

Date: September 8, 2022

FANNING/HOWEY ASSOCIATES, INC.
ARCHITECTS/ENGINEERS/CONSULTANTS



William E. Payne, AIA
Indiana Registration No. 4169

TO: ALL BIDDERS OF RECORD

ADDENDUM NO. 2 to Drawings and Project Manual, dated August 9, 2022, for Greensburg Community High School – Stadium and Site Improvements, Greensburg Community School Corporation, Greensburg, Indiana 47240; as prepared by Fanning/Howey Associates, Inc., Indianapolis, Indiana.
This Addendum shall hereby be and become a part of the Contract Documents the same as if originally bound thereto.

The following clarifications, amendments, additions, revisions, changes, and modifications change the original Contract Documents only in the amount and to the extent hereinafter specified in this Addendum.

Each bidder shall acknowledge receipt of this Addendum in his proposal or bid.

NOTE: Bidders are responsible for becoming familiar with every item of this Addendum. (This includes miscellaneous items at the very end of this Addendum.)

RE: ALL BIDDERS

ITEM NO. 1. NEW PROJECT MANUAL SECTION

- A. New Project Manual Sections 26 00 02 – Electrical Specifications and 26 00 05 – Electrical Demolition are included with and hereby made a part of this Addendum.

ITEM NO. 2. ADDENDUM NO. 1

- A. Revised Project Manual Section 32 18 30:

1. Replace 1.6, B., 1., c., as follows:

“c. Must have a provision to repair or replace such portions of the installed materials that are no longer serviceable to maintain a serviceable and playable surface.”

2. Add 1.6, B., 1., g., as follows:

“g. Warranty shall include, for same warranty period, material and workmanship of aggregate subbase materials specified in other sections but installed by Synthetic Grass Surfacing installer/manufacture. Repair or replace portions of aggregate subbase that fails, settles or creates imperfections in the synthetic grass surfacing planarity negatively affecting the surface, safety, playability and overall drainage of the playing field.”

3. Article 2.1, A., 2: Change “XT-57-48” to “XT-50”.

4. Replace 2.2, D., 1., h., as follows:

“h. Seams: New synthetic turf materials are manufactured in panels or rolls that are usually 15 feet wide. Each panel or roll should be attached to the next with a seam to form the fabric of the field. Seams should be sewn with high strength sewing thread.”

5. Replace 2.2, D., 1., k., 7), 8), and 9), as follows:

- “7) Infill materials: Sand 70% and Rubber 30%, 3.2 lbs of rubber and 1.5 lbs of sand.”
8) Pile Height: 2 inches.
9) Deleted “

6. Replace 2.2, E., 2., as follows:

- “2. Rubber: The rubber infill utilizes material that consists of styrene butadiene rubber (SBR). Both ambient and/or cryogenic rubber can be used. Rubber granules must be clean and free of all metal/ferrous materials.”

ITEM NO. 3. ACCEPTABLE MANUFACTURERS

The following manufacturers are to be considered acceptable manufacturers (suppliers and fabricators) for the Sections of the Specifications listed. Listed manufacturers are required to bid on products equal in type and design, size, function, and quality to that originally specified. Final decision as to equality of products specified versus those proposed shall be made by the Architect.

Section 32 18 13 – Synthetic Grass Surfacing
- Hellas Construction, Inc., Austin, Texas (Velocity XP2)

ITEM NO. 4. DRAWING SHEET NO. E2.01 ELECTRICAL SITE PLAN

. New sheet added by addendum.

ITEM NO. 5. REVISED DRAWING SHEETS

- A. Drawing Sheets: G1.00 and GD1.00 are included with and hereby made a part of this Addendum. These Drawings supersede the original documents.

END OF ADDENDUM

SECTION 26 00 02 - ELECTRICAL SPECIFICATIONS

PART 1 - PRODUCTS

1.1 SCOPE OF WORK

- A. Part 1 General
- B. Part 2 Material
- C. Part 3 Power Distribution
- D. Part 4 Grounding
- E. Part 5 Electrical Service For Athletic Equipment
- F. Part 6 Demolition

1.2 The party performing the Work under this Section hereinafter referred to as the Contractor, shall furnish all labor, material, tools, equipment, services, and related accessories for a complete installation of all electrical work as indicated in the Drawings and Specifications. Items omitted from either the Specifications or the Drawings, but shown or described in the other, and all items necessary to make the electrical system functional and complete per required codes, shall form a part of the Work. No "extras" will be allowed.

1.3 All work, material, and equipment shall comply with all requirements of the latest editions and interim amendments of the National Electrical Code (NEC), National Electrical Safety Code, National Fire Protection Association, OSHA, Americans with Disabilities Act (ADA), and all applicable federal, state, and local laws and ordinances. All electrical equipment provided under this Contract shall be new (except where otherwise noted) and shall comply with the requirements of the Underwriters' Laboratories (UL) and bear the UL label.

1.4 Any discrepancies within Drawings and Specifications shall be promptly brought to the attention of the engineer for clarification during the bidding period. No allowance shall subsequently be made to the Contractor by reason of his failure to have brought said discrepancies to the attention of the Engineer during the bidding period or of any error on the Contractor's part.

1.5 The Contractor shall check all existing field conditions (or Civil, Structural, Architectural and Mechanical trades work) for possible interference caused by conditions in the field before bid is made. No allowance shall subsequently be made to the Contractor by reason of his failure to have made such examinations or of any error on his part.

1.6 The Contractor shall be held to have examined the premises and site to as to compare them with the Contract Documents and to have satisfied himself as to the conditions of the premises, the site, any obstructions, the actual levels, access panels, and all other existing conditions. The Contractor shall verify all dimensions in the field, shall check location of and connection to existing facilities, and shall assume all responsibility for same.

1.7 Should any changes in the Drawings and Specifications be required to conform to the above regulations, the Contractor shall notify the Owner or his representative at the time of submitting his bid. After entering into the Owner-Contractor Agreement, the Contractor shall be held to complete all Work necessary to meet these requirements without additional expense to the Owner.

1.8 The Contractor shall receive, store, uncrate, protect, and install Owner-furnished equipment with all appurtenances required to place the equipment in operation, ready for use. The Contractor shall be responsible for the equipment when received, as if he had purchased the equipment himself.

- 1.9 The Contractor shall secure and pay for all permits and inspections required for the Work.
- 1.10 The Contractor shall not allow or cause any of the Work to be covered up or enclosed until it has been inspected. Any Work that is enclosed or covered up before such inspection and test shall be uncovered at the Contractor's expense; after it has been inspected, the Contractor shall restore the Work to its original condition at his own expense.
- 1.11 All general trades and mechanical drawings shall be checked before installing any outlets, power wiring, etc. For purposes of these drawings and specification, the word "provide" shall mean furnish and install.
- 1.12 The Contractor shall turn over all certificates of approval for inspections of electrical work to the Owner promptly when received. These certificates must be received before payment will be made for the Work involved.
- 1.13 The Contractor shall keep an up-to-date record of all deviations from the Contract Documents. At completion of this Project, the Contractor shall deliver a set of As-Built Drawings and Specifications showing these deviations to the Owner. Refer to Section 01200, "Field Procedures."
- 1.14 All work shall be done in accordance with the Contract Documents, in a neat and workmanlike manner consistent with recognized good practice, and shall be subject to the approval of the Owner or his representative.
- 1.15 Certain areas require the Contractor to remove, add to, or relocate portions of existing Work. It shall be the Contractor's responsibility to remove ceilings, portions of walls, etc., in a manner so that he may install new Work. The Contractor shall then patch, repair and/or replace ceilings, walls, etc., to match existing conditions. The above applies to all areas not specifically indicated on Architectural Drawings as work to be performed by General Trades Contractor(s).
- 1.16 If the Contractor fails to do any required patching or repair any damage resulting from the installation of the electrical Work, such patching or repairing shall be done by the Owner and the cost shall be paid by the Contractor.
- 1.17 All equipment furnished with finished surfaces from manufacturer are not to be defaced in any way and shall be cleaned to original finish at time of completion of Work except where otherwise noted.
- 1.18 The Contractor shall conduct such tests and adjustments of equipment as required to verify equipment performance. Such tests shall be conducted in the presence of the Owner or his representative.
- 1.19 The Contractor shall remove all debris resulting from the Work, as well as all tools, equipment, etc., from the site upon completion of this contract. All equipment, including lighting fixtures and lenses shall be clean and free from dirt, grease, finger marks, etc., before final acceptance.
- 1.20 All equipment furnished and work performed under the Contract Documents shall be guaranteed against defects in materials or workmanship for a period of one (1) year from the date of final acceptance. Any failure of equipment or work due to defects in materials or workmanship shall be corrected by the Contractor at no cost to the Owner.
- 1.21 During building operations some existing installation may be exposed that will have to be changed, altered, re-routed, removed, and/or abandoned. Any such Work which in the trade comes under the jurisdiction of the Electrical Contractor shall be done by this Contractor without extra cost to the Owner as though fully detailed and/or described on Plans and in Specifications.

- 1.22 During the construction operation the Contractor shall at all times maintain electrical utilities to the building without interruption. Should it be necessary to interrupt any electrical service or utility, the Contractor shall secure permission in writing from the Owner for such interruption at least 72 hours in advance. Any interruption shall be made with minimum amount of inconvenience to the Owner and any shutdown time shall have to be on an overtime basis and such time will be included in electrical bid.
- 1.23 Provide Shop Drawings for GFI receptacles, light fixtures, panelboards, transformers and fuses.

PART 2 - PRODUCTS

- 2.1 All conduit shall be electrical metallic tubing, except where otherwise noted.
- 2.2 Electrical metallic tubing (E.M.T.) may be used in lieu of rigid conduit indoors for conduits 4" trade size and smaller.
- 2.3 All conduits shall be 3/4" minimum except where otherwise noted. All conduits in finished spaces shall be concealed.
- 2.4 The same type of conduit shall be used for all communication and low voltage systems as for power and lighting. Where cables for communications and low-voltage systems are run exposed (not in conduit), conduit sleeves shall be installed in all fire and smoke walls for the passage of said cables through the fire and smoke walls.
- 2.5 All conduits and fittings shall be run in straight lines parallel with or at right angles to building walls, partitions, floors and ceilings. When the location on the Plans interferes with other work in place or subsequently to be placed, the Contractor shall work out a satisfactory location, free from interferences.
- 2.6 Individual conduits shall be rigidly supported and clamped with one-hole conduit clamps, conduit beam clamps, conduit hangers, or wall brackets, as required for the type of construction and/or as indicated on the Drawings. The use of perforated flat steel or nylon straps for supporting conduits will not be permitted. Conduits shall be secured so that they cannot be moved without the use of tools.
- 2.7 Where a group of conduits run together, support the conduits on hangers fabricated from light steel framing unless otherwise shown on the Drawings.
- 2.8 All conduit connections to motors, limit switches, and similar devices shall be made of interlocked galvanized steel with a copper bonding conductor wound spirally in the space between each convolution on the inside of the conduit, and shall have an extruded polyvinyl chloride cover to protect the wiring against moisture, oil, chemicals, and corrosive fumes.
- A. The conduit shall be:
1. Anaconda American Brass "Sealtite" type UA
 2. Electri-Flex Co. "Liquidtite" type L.A./L.O.R.
 3. Or approved equal
- 2.9 Provide pull boxes, junction boxes, splice boxes and fittings where shown and at other locations as necessary.
- 2.10 All single conductor power wire shall be 600 volt, type [XHHW, THWN, or THHN] with copper conductors, except where otherwise noted.
- 2.11 All single conductor wires run in or through fluorescent fixtures shall be 600 volt, type [RHH, THHN, or XHHW.]
- 2.12 All conductors shown on the Drawings are copper, except where otherwise noted. Aluminum conductors shall not be substituted for copper conductors.

- 2.13 Minimum wire size shall be No.12 AWG, except where otherwise noted. Wire Size No. 8 AWG and larger shall be stranded, and all smaller wires shall be [solid, stranded]except where otherwise noted.
- 2.14 Conductors for power and lighting feeders and branch circuits shall have conductor identification. Conductor identification shall be as called for in the National Electrical Code. A separate color shall be used for each phase conductor of each voltage system. Color coding shall be consistent throughout.
- 2.15 Conductors for control, signal, and communications wiring shall be identified at all terminal and splice points with permanent self-adhesive wire identification markers. Wire markers shall be made of vinyl impregnated cloth, vinyl plastic, or other permanent materials. Wire markers made of paper tape shall not be used.
- 2.16 Wiring devices shall be specification grade NEMA standard WD-1, Hubbell, or approved equal, as follows:
- A. SPST Toggle Switch Hubbell No.1221
 - B. 3-Way Toggle Switch Hubbell No.1223
 - C. 20A Duplex Receptacle Hubbell No.5362
- 2.17 All switches, receptacles and wall plates shall match existing in finished areas or shall be [white, ivory, brown, gray] in new areas. Device plates finish shall be stainless steel in wet locations.
- 2.18 All switches and receptacles shall be flush mounted. All outlets are to be fitted with device plates that completely conceal the openings.
- 2.19 All switches shall be "off" in the down position.
- 2.20 Elevations for outlets from finished floor to center of outlet shall be as follows, except where otherwise noted:
- A. Switches 4'-0"
 - B. Receptacles in finished spaces 1'-6", unless otherwise noted
- 2.21 Provide all angle iron, channels, rods, supports, or hangers required to install any electrical equipment called for by the Contract Documents.
- 2.22 Locations of conduits, switches, receptacles, lights, motors, etc., outlets shown on Drawings are approximate. The Contractor shall use good judgment in placing the preceding to eliminate all interference with ducts, piping, etc.
- 2.23 Check all door swings so that light switches are not located behind doors. Relocate switches as required, with approval from the Owner or his representative.
- 2.24 The Owner or his representative reserves the right to reject any equipment or materials which are not in compliance with these Specifications, or the approved Shop Drawings, either before or after installation at no expense to the Owner and equipment shall be replaced with approved equipment by the Contractor at no cost to the Owner.
- 2.25 Provide permanent equipment identifications as follows:
- A. Provide on each panelboard, safety switch, etc. a 1 " x 3 " laminated phenolic nameplate to identify the equipment. Nameplates shall be engraved to show black letters on a white background. Nameplates-shall be fastened to the door with two self-tapping metal screws and shall be removable.

- B. Each motor starter shall have an individual nameplate indicating the destination of the circuit and motor being fed.
- C. Provide engraved plastic nameplates on all electrical equipment provided on this project.

PART 3 POWER DISTRIBUTION

- 3.1 Panelboards shall be circuit breaker type and shall have voltage rating, current rating, number of phases, and number of wires as shown on the Drawings. All panels shall have a solid natural bar and a ground bar. Panels shall be dead front type construction with a galvanized code gauge sheet steel cabinet without knockouts. Panels shall be a minimum of 20" wide except where otherwise noted. Panels shall be complete with door and lock. Panels shall, be suitable for surface or flush mounting as noted. Panels shall have [tin plated aluminum, silver plated aluminum, or copper] main vertical bus.
 - A. Panels and circuit breakers shall have an integrated short circuit rating (in RMS symmetrical amperes) of not less than the interrupting rating of the lowest rated circuit breaker in the panel.. Minimum interrupting rating of [10,000, 22,000] amperes, RMS symmetrical.
 - B. Non-padlocking type circuit breaker handle-locking devices shall be provided where shown on the Drawings. Panels shall have the number and size of circuit breakers as shown on the Drawings. Where spaces are called for, panel bus shall be extended behind the spaces. All circuit breakers shall be quick-make, quick-break, bolt-in type with thermal-magnetic trips. Provide ground fault interrupter type circuit breakers where noted.
 - C. Each panel shall have a typewritten directory on the inside of the door designating the use and location of each circuit.
 - D. All panels shall be of the same manufacturer.
 - 1. All circuit breaker panelboards operating at 120/208 volt, 3-phase, 4-wire, flush mounted with bolt-on circuit breakers, and ratings as noted on Drawings. Equipment shall be Square D No. NQOD, or approved equal.
 - 2. All circuit breaker panelboards operating at 480/277 volt, 3-phase, 4-wire shall be surface mounted with bolt-on circuit breakers and ratings as noted on Drawings. Equipment shall be Square D No. NEHB, or approved equal.
- 3.2 Disconnect switch type combination magnetic starters shall be three phase, 600 V, fusible. Disconnect switches shall be quick-make, quick-break, heavy-duty type. Fusible disconnect switches shall have fuse clips for UL listed NEMA class fuses. Fuse clips for RK-1 or J fuses shall be spring-reinforced. Fuse switches and fuses shall have a minimum integrated interrupting rating of 50,000, RMA symmetrical at 480 V AC.
- 3.3 Magnetic starters shall be full voltage, three phase, NEMA size as shown on the Drawings or as required, three pole, 600 V, 60 Hz, with three manual reset type overload heaters, with external reset button, control transformer with 120 V fuses secondary, and 120 volt control coil. Control transformers shall be properly sized to accommodate all associated control devices. Magnetic starters shall be NEMA size 1 minimum. Overload heaters shall be sized from motor nameplate data in accordance with manufacturer's recommendations.
 - A. All motor starters shall have NEMA-1 enclosures, except where otherwise noted.
 - B. Starters shall be supplied with pushbuttons and pilot lights. All devices shall be heavy-duty, oil-tight type. Starters shall be:
 - 1. Allen-Bradley Bulletin 512
 - 2. Square D Class 8538
 - 3. Westinghouse Type A204
 - 4. Approved equal

- 3.4 Provide a complete coordinated ladder type aluminum cable tray system, including fittings and supports as required and indicated. All horizontal changes in direction shall be made with standard bends. All vertical changes in direction shall be made with standard bends or hinged splice in an incline section of tray. However, if hinged splice plates and an incline are used, the angle of the incline from the horizontal shall not exceed 30°. All changes in cable tray widths shall be made with standard reduced fittings. The inside of the cable tray shall have no sharp edges, burrs, or projections. A #2 AWG copper ground wire shall be provided for the entire length of the cable tray and bonded to each section.
- A. Cable tray shall have proper support spacing to sustain a continuous working load of 100 lb./linear ft. with a minimum safety factor of 2.0/1.0.
 - B. Width shall be shown with 5" high side rails, minimum and a 9" rung spacing, maximum. All fittings shall have a 12" minimum radius.
 - C. Manufacturers shall be:
 - 1. Binkley "B-Line" Systems.
 - 2. Chalfant Products Co.
 - 3. Huskey/Burndy Corp.
- 3.5 Provide a complete set of fuses for all fusible equipment on the job. All fuses shall be of the same manufacturer and shall have an interrupting rating of 200,000 A, RMS symmetrical, except otherwise noted. All fuses shall bear UL label and NEMA class designation. All dual-element fuses shall bear Canadian Standards Association (CSA) suffix D label. Fuse identification labels showing size and type of fuse installed shall be placed inside the cover of each switch or piece of equipment.
- A. Fuses rated 600A and less shall be dual-element current limiting type, UL listed NEMA Class RK-1, except where otherwise noted. Manufacturers shall be: Bussman Low Peak or Gould-Shawmut Amp-Trap II.
 - B. Fuses rated above 600A shall be time delay, current limiting type, UL listed, NEMA Class L, except where otherwise noted. Manufacturers shall be: Bussman Hi-Cap or Gould-Shawmut Amp-Trap (Form 480).
- 3.6 Switchboard shall be rated for service entrance duty, completely self-supporting structure of the required number of vertical sections bolted together to form one metal enclosed rigid switchboard. All sections of the switchboard shall be completely front accessible and rear-aligned so that the completed structure may be placed against the wall. The distribution branch protection device shall be group mounted with necessary bar connection straps and having the device (line and load) connections accessible from the front. Where space for future is called for, all necessary buses except device connecting straps shall be furnished.
- A. A ground bus shall be furnished secured to each vertical section structure and shall extend the entire length of the switchboard. A full-capacity neutral bus shall be provided. Buses shall be tin-plated aluminum, silver-plated aluminum, or copper. The bus structure shall be arranged to permit future additions. The bus bars shall be mounted on supports of high-impact nontracking insulating material. A-B-C type bus arrangement (left-to-right, top-to-bottom, and front-to-rear) shall be used throughout to assure convenient, safe testing and maintenance.
 - B. The maximum available fault at the incoming line of the switchboard shall be 200,000 RMS symmetrical amperes. The switchboard bus on the load side of the main switch shall be braced at 50,000 RMS symmetrical amperes.
 - C. Provide current transformers one ammeter, one voltmeter, and two transfer switches to meter switchboard mains.

- D. Main switch shall be Pringle Type CBC-EO electrically closed and electrically/mechanically opened, bolted pressure switch with UL listed NEMA Class L fuses and phase failure relay with 70% low-voltage release to trip switch "open." The relay is to operate only when a single-phase condition exists, not when a total outage occurs. Voltage shall be sensed at main switch line terminals.
- E. Feeder switches shall be quick-make, quick-break, heavy-duty type fusible switches with UL listed NEMA Class RK-1 fuses as required. Fuse clips for Class RK-1 fuses shall be spring-reinforced and have relocation clips. Switches shall be installed such that the blades and fuses are de-energized when the switch is open.
- F. Each circuit shall have an individual nameplate indicating the destination of the circuit.
- G. Manufacturers shall be:
 - 1. Square D
 - 2. Eaton
 - 3. Siemens

PART 4 GROUNDING

- 4.1 Provide all materials and labor requisite to install an approved grounding system to an approved, adequate ground source, per NEC.
- 4.2 Ground all conduits, fixtures, receptacles, motors, panels and other exposed noncurrent carrying metal parts of electrical equipment in accordance with all provisions of the National Electrical Code.
- 4.3 Provide a ground wire in all feeder circuits.
- 4.4 Provide a ground wire in all new branch circuit conduits.
- 4.5 Where grounding conductors are subject to mechanical injury, they shall be installed in a rigid non-ferrous raceway.
- 4.6 Connect neutral bar to the ground bar at one location in the incoming service. Provide a ground conductor from the ground bar to the metallic water service pipe at point of entrance into building.
- 4.7 Conductors for equipment grounding system shall be soft or medium hard drawn, stranded, bare copper, except where otherwise noted. All feeder and branch circuit conductors #8AWG and smaller shall be insulated, green in color.
- 4.8 All connection of ground conductors to bus bars, structural members, pipes, and splices of ground conductors shall be made by exothermic welds, except where otherwise noted. All connections to bar lugs shall be exothermic weld or compression type. Bolted type connection of ground conductors may only be made where terminal lugs or blocks have been furnished and installed in equipment by the manufacturer. Exothermic welds shall be: Cadweld or Thermo-O-Weld.

PART 5 ELECTRICAL SERVICE FOR ATHLETIC EQUIPMENT

- 5.1 The Scope of this project involves removal of existing athletic equipment and the installation of new and / or replacement equipment.
- 5.2 The Contractor shall review all drawings to understand the scope of these improvements.
- 5.3 Provide all branch circuits and feeders from new or existing panels as shown on the drawings, to provide a complete and operating system.

- 5.4 Factory disconnects, starters, variable frequency motor controllers and variable speed motor controllers may be furnished by the equipment vendors, refer to the Mechanical Equipment Schedules for details. When not furnished by others and required by the National Electrical Code, this Contractor shall provide all disconnect switches, variable frequency motor controllers, motor starters, overloads, fuses, breakers etc. to provide a complete and operating system.

PART 6 DEMOLITION

- 6.1 Refer to attached Section 260005 for details of demolition.

END OF SECTION 26 00 02

SECTION 26 00 05 – ELECTRICAL DEMOLITION

PART 1 - GENERAL

1.1 DEMOLITION SUMMARY

- A. This Section Includes Electrical Demolition which includes but is not limited to:
 - 1. Electrical Service.
 - 2. Mechanical equipment.
 - 3. Electrical panels.
 - 4. Electrical receptacles.
 - 5. Conduit
 - 6. Underground work
 - 7. Grounding
- B. Refer to drawings for additional requirements

1.2 DEFINITIONS

- A. Refer to abbreviations on Symbol Legend drawings
- B. Refer to Demolition Coded Notes on drawings

1.3 COORDINATION

- A. Contractor shall visit project site before bidding. Verify all conditions, electrical equipment required for demolition and additional demolition that would interfere with new construction.
- B. Refer to architectural, mechanical and plumbing demolition drawings for electrical equipment that will be removed or disconnected, and include in bid.
- C. Coordinate arrangement, mounting, and support of electrical equipment.
- D. Electrical service to the building or any section of this building shall be maintained at all times. If any outage is required, contractor shall obtain written approval from owner or cm at least 48 hours prior to outage.

PART 2 - ELECTRICAL NOTES

- 2.1 All equipment and conduit shown on the demolition drawings is existing and shall remain in service unless noted otherwise.
- 2.2 All exposed conduit noted to be removed shall be removed in its entire length, unless noted otherwise.
- 2.3 All concealed conduit noted to be removed shall be removed for exposed portions and abandoned in concealed location, unless noted otherwise. Remove all conductors and cap remaining conduit at both ends.
- 2.4 All underground conduit noted to be removed shall be removed for exposed portions and abandoned in underground location, unless noted otherwise. Remove all conductors and cap remaining conduit at both ends.
- 2.5 All conductors noted to be removed, or in conduit which is noted to be removed, shall be removed in its entirety
- 2.6 All conductors scheduled to be removed shall be disposed of, unless noted below or otherwise.

- 2.7 All luminaires scheduled to be removed, shall be carefully removed by contractor and disposed of, unless noted below or otherwise. Remove conduit drop to fixture.
- 2.8 Panel and equipment designations indicated are existing. Refer to new drawing panel board schedule for any new designations. Provide new nameplate as required.
- 2.9 Provide blank cover plates where devices are removed and flush box will remain.
- 2.10 Where walls to remain are damaged by demolition of electrical equipment, patch or repair to match adjacent surfaces and repaint.
- 2.11 All conduit that is reused shall be re-supported as required per National Electrical Code.
- 2.12 When existing circuit conductors are required to be reused, verify continuity, intercept in a new or existing junction box or wireway. Extend new conductors as required per National Electrical Code. Do not splice existing conductors in panelboards. Label conductors as each end.

PART 3 - EXECUTION

- 3.1 When existing equipment that is required to be removed shall be removed by Contractor and disposed of offsite unless noted otherwise. Non Hazardous demolition and construction waste related to the electrical scope of work shall be salvaged, or recycled as much as possible. See specification section 017419-“Construction Waste Management and Disposal” for requirements.
- 3.2 When existing equipment that is required to be relocated it shall be carefully removed with all components, stored in a dry location, protected, cleaned and re-installed where shown.
- 3.3 When existing luminaires are required to be relocated, they shall be cleaned and re-lamped with the appropriate lamp.
- 3.4 Hazardous Demolition Waste. Hazardous demolition and construction waste related to the electrical scope of work shall be disposed of or recycled. See specification section 017419-“Construction Waste Management and Disposal” for requirements. The following materials may be present and if so must be disposed of in compliance with statutory requirements.
 - A. Polychlorinated Bi-phenol liquids, (PCB's) such as but not limited to Askarel.
 - B. Liquid filled transformers with liquids such as but not limited to mineral oil, high molecular weight hydrocarbons (MWHC), Silicone, etc
 - C. PCB ballasts or capacitors
 - D. Asbestos insulation on conductors.
 - E. Lamps containing mercury, such as but not limited to compact fluorescent (CFL), mercury vapor, etc
 - F. Fluorescent lamps containing phosphors
 - G. Rechargeable batteries with heavy metals such as but not limited to Nickel Cadmium, etc
 - H. Lead acid batteries

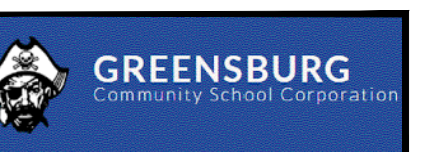
END OF SECTION 26 00 05

GREENSBURG COMMUNITY HIGH SCHOOL STADIUM AND SITE IMPROVEMENTS

1000 E CENTRAL AVE GREENSBURG, IN 47240

PROJECT: 221055.06

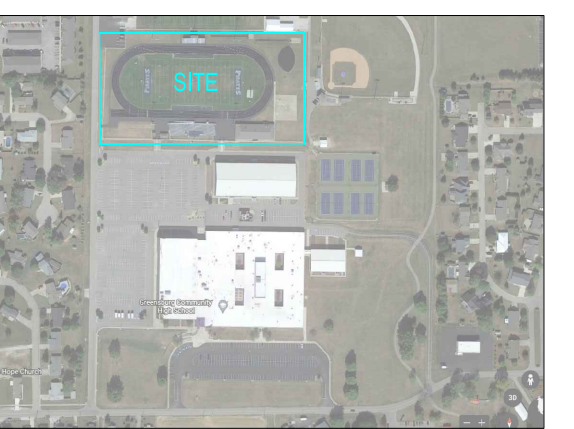
GREENSBURG COMMUNITY SCHOOLS



ARCHITECT

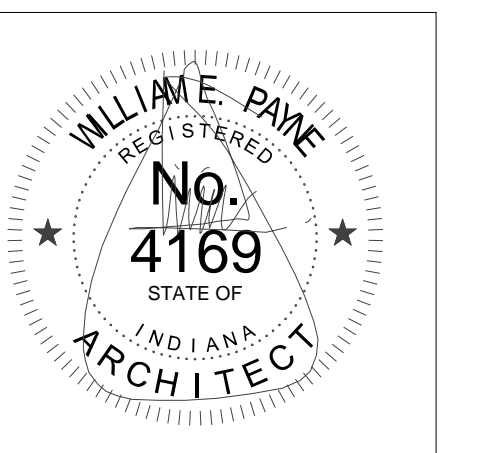


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VICINITY MAP

CONSTRUCTION DOCUMENTS



PROJECT MANAGER: MS
DRAWN BY: EB
PROJECT NUMBER: 221055.06

PROJECT ISSUE DATE: 09/22

REV.	NO.	DESCRIPTION	DATE
1			
2		ADDENDUM #2	09/08/22

SITE DEMOLITION PLAN:
GREENSBURG COMMUNITY HIGH SCHOOL STADIUM

GD1.00



PROJECT BOUNDARY LIMITS TYP

SITE DEMOLITION PLAN

SCALE 1"=20'-0"

PLAN LEGEND

- EXISTING STADIUM ASPHALT PAVING TO BE MILLED - SEE PLAN NOTES
- EXISTING TRACK SURFACING AND TRACK ASPHALT PAVING TO BE MILLED - SEE PLAN NOTES
- EXISTING TEAM AREA ASPHALT PAVING TO BE REMOVED - SEE PLAN NOTES
- EXISTING STADIUM SURFACING AND (1) 6'X6' CONCRETE WALK TO BE FULLY REMOVED

PLAN NOTES

- 1 PROTECT EXISTING GRANDSTANDS AND PRESS BOX DURING CONSTRUCTION TYP
- 2 PROTECT AND MAINTAIN "DO NOT ENTER - CONSTRUCTION ZONE" SIGNAGE AND PERMETER SILT/FENCE (SEE SHT G2.00 DETAIL 1) SET AT PROJECT BOUNDARY
- 3 MILL EXISTING STADIUM ASPHALT PAVING 1.5" IN AREAS SPECIFIED - DISPOSE OF WASTE MATERIALS LEGALLY OFF SITE - SEE SHT G1.00 FOR PROPOSED LAYOUT SCOPE OF WORK
- 4 DEMO EXISTING 12" DIA. DRAINAGE PIPE NOTED IN IT'S ENTIRETY AND DISPOSE OF MATERIALS LEGALLY OFF SITE - SECTIONS OF EXISTING LINES TO REMAIN AND BE REUSED SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION
- 5 REMOVE EXISTING NATURAL TURF FOOTBALL FIELD AND OPEN LAWN/TURF AREAS AS NEEDED TO ACCOMMODATE PROPOSED LAYOUT ON SHT G1.00
- 6 SAWCUT EXISTING TRACK ASPHALT PAVING AND SYNTHETIC TRACK SURFACING WITHIN INSIDE PERIMETER OF TRACK 6'-24"+/- AS NEEDED IN ORDER TO ACCOMMODATE NEW 6" CURBING AND 2" CURBING/SLOT DRAIN - NEW SYNTHETIC TURF FOOTBALL FIELD AND PROPOSED TRACK LAYOUT - SEE G1.00 FOR FURTHER INFORMATION
- 7 TIME CLOCK TO BE RELOCATED - SEE G1.00
- 8 DEMO EXISTING SCOREBOARD AND UP LIGHTS (2+/-) IN THEIR ENTIRETY AND DISPOSE OF MATERIALS LEGALLY OFF SITE
- 9 REMOVE (2) EXISTING FOOTBALL GOAL POSTS AND FOOTINGS IN THEIR ENTIRETY - DISPOSE OF MATERIALS LEGALLY OFF SITE
- 10 PROTECT ALL EXISTING BUILDINGS DURING CONSTRUCTION - TO REMAIN MARKED OR OTHERWISE
- 11 EXISTING 12" DIA. STORM DRAIN LINES TO REMAIN - LOCATION GIVEN IS APPROXIMATE TO BE SITE VERIFIED PRIOR TO THE START OF CONSTRUCTION.
- 12 PROTECT EXISTING GRANDSTANDS AND PRESS BOX DURING CONSTRUCTION TYP
- 13 PROTECT EXISTING ELECTRICAL LINES TO REMAIN
- 14 DEMO EXISTING IRRIGATION IN IT'S ENTIRETY - DISMANTLE, CAP, REMOVE ALL ZONES AND RETURN ALL HEADS (32+/-) SET AT PROJECT BOUNDARY
- 15 MILL EXISTING STADIUM ASPHALT PAVING 1.5" IN AREAS SPECIFIED - DISPOSE OF WASTE MATERIALS LEGALLY OFF SITE - SEE SHT G1.00 FOR PROPOSED LAYOUT SCOPE OF WORK
- 16 DEMO AND OR RELOCATE EXISTING ELECTRICAL LINES - SEE ELECTRICAL DRAWINGS FOR FURTHER CLARIFICATION
- 17 DEMO EXISTING 4" FENCING, (1) 4' SINGLE WIDE GATE, (1) 10' DOUBLE WIDE GATE IN THEIR ENTIRETY AND DISPOSE OF MATERIALS LEGALLY OFF SITE
- 18 DEMO EXISTING 4" CHAIN LINK FENCING IN IT'S ENTIRETY - SAWCUT EXISTING FENCE POST WITHIN EXISTING ASPHALT WALKWAY AT FOOTING FLUSH, DEMO EXISTING EXPOSED CONCRETE FOOTINGS FLUSH WITH FFE OF EX. ASPHALT PAVING PRIOR TO PATCHING EXISTING ASPHALT PAVING AS NEEDED - PROVIDE SMOOTH FINISHED SURFACE / POSITIVE DRAINAGE TO EXISTING ASPHALT WALKWAY - DISPOSE OF WASTE MATERIALS LEGALLY OFF SITE
- 19 EXISTING STADIUM LIGHTING - SEE ELECTRICAL DRAWINGS FOR SET DEMO SCOPE TYP
- 20 PREPARE EXISTING ASPHALT PAVING FOR SEALCOATING OPERATIONS - CLEAN AND REPAIR CRACKS
- 21 12" DIA. STORM PIPING - SECTIONS UNDERNEATH EXISTING RUNNING TRACK TO REMAIN - PROTECT DURING CONSTRUCTION TYP
- 22 DEMO EXISTING ASPHALT PAVING IN IT'S ENTIRETY AND DEMO EXISTING 6'X6' CONCRETE STOOP - DISPOSE OF WASTE MATERIALS LEGALLY OFF SITE
- 23 FULLY DEMO TEAM AREA ASPHALT PAVING AND LEGALLY DISPOSE OF WASTE MATERIALS OFF SITE
- 24 FULLY REMOVE/DEMO EXISTING TRACK SURFACING FROM EXISTING RUNNING TRACK - MILL EXISTING ASPHALT PAVING 2" AND DISPOSE OF WASTE MATERIALS LEGALLY OFF SITE. CLEAN, FILL CRACKS AND REPAIR MILLED SURFACE AS NEEDED PRIOR TO INSTALLING NEW SURFACE COURSE - SEE SHT G1.00 FOR FURTHER CLARIFICATION

GENERAL NOTES

All contractors but not limited to the excavating contractor or contractors must take particular care when excavating in and around existing utility lines and equipment. Actual field locations of all the existing utilities are the contractor's responsibility and must be located either by the representative of the utility company or by a private underground utility locating company prior to the start of excavating. Verify minimum cover requirements by the utility contractor or contractors or agencies/whomever utility companies or agencies/whomever has jurisdiction so not to cause damage.

All construction methods and materials must conform to current standards and specifications of the Federal, State, County, City or Local requirements, whichever has jurisdiction.

Existing pavement, sidewalks curbs driveways, electrical transformer, ditches, drainage pipes and structures, fences, lawns, trees, bushes, mailboxes, signs, power poles etc., to remain shall be protected from damage by the contractor. Any damage during construction shall be restored, reconstructed or replaced by the contractor at his expense. All damages shall be restored or replaced to at least their original condition or as required or dictated by Federal, State, County, City or Local.

It is the responsibility of the contractor or contractors to obtain all Federal, State, County, City, and Local permits for any and all work required unless otherwise noted. This includes the submittal of soil erosion & sediment control plans as required for rule 5.

The contractor or contractors are responsible to pay for all required permits by any or all agencies mentioned above unless otherwise noted by the contract or specifications.

It is the contractor's responsibility to notify all the utility companies and departments 72 hours before construction is to start to verify any utilities that may be present on site. All verifications, locations, size and depths shall be made by the appropriate utility companies or departments. When excavating around or over existing utilities, the contractor must notify the utility company so a representative of the utility can be present during the excavation to instruct and observe during the excavation.

It shall be the responsibility of the contractor to coordinate all proposed construction with adjacent property owners and verify that written permission has been obtained to cross the neighboring properties to access and complete proposed construction as shown.

All areas where the existing pavement or pavements are damaged during construction from heavy traffic or equipment, fuel oil, oil, gasoline, etc., by the General Contractor, Subcontractor, or Suppliers, shall be reconstructed to it's original condition or as required or dictated by Federal, State, County, City or local agencies. This reconstruction and repair shall take place at the end of the project construction or during the scheduled grading and paving of those areas.

It shall be the responsibility of the contractor to bare all expenses to remove, relocate and or modify all utilities, private, public, unless noted otherwise on plans. It further shall be the responsibility of the contractor to verify with each utility company and or agent to who is responsible to remove, relocate and or modify such utilities existing or proposed.

It further shall be the responsibility of the contractor to verify if any future utilities are planned and how it may affect this project and its owner as to their responsibilities.

The contractor shall be responsible to provide at his expense all automobile and pedestrian traffic control devices required by Federal, State, County, City or Local.

It is the responsibility of the contractor to inspect each day and remove all mud, dirt, gravel and loose materials tracked, dumped, spilled or wind blown from this site onto other sites, right of ways, public or private streets or roads, driveways, yards or sidewalks. The contractor must clean or pick up daily if necessary. The contractor shall reduce the airborne dust during the entire construction schedule. Water may be used as a reducer.

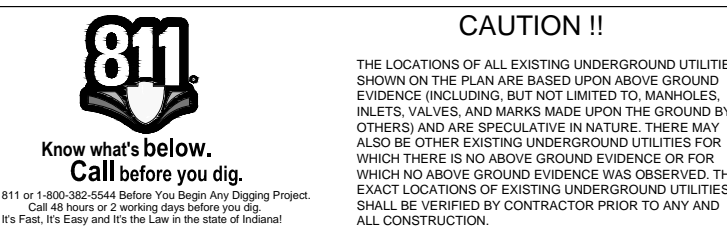
The utilities indicated on these plans may not be a complete inventory of all the existing utilities present on and around this site. The locations and sizes of these utilities are approximate. This information was gathered or supplied from others and used by the architect and or engineer and may not be actual. The architect and or engineer may not be held liable for any incorrect or misleading utility information indicated, implied or not indicated on these plans.

Removal of the existing improvements are as noted on the plans. The materials removed from the site shall be disposed of in a proper and legal manner per Federal, State, County, City, and or Local laws and ordinance.

The contractor shall verify all dimensions and elevations in the field before the start of construction. The contractor shall be responsible for all field dimensions and elevations during the entire construction schedule. If any discrepancies are found on the engineering plans or landscape plans from actual field conditions the contractor shall contact the A/E immediately. If any discrepancies are found on the survey plan or from actual field conditions the contractor shall contact the A/E immediately for instructions.

GENERAL PLAN NOTE

ALL EXISTING STRUCTURES, SITE PAVING, AND SITE FURNISHINGS NOT INDICATED FOR DEMO/REMOVAL IS TO REMAIN - PROTECT DURING CONSTRUCTION TYP



CAUTION !!
THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES INDICATED ON THESE PLANS IS APPROXIMATE TO BE VERIFIED PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION. SEE SHT G1.00 FOR FURTHER INFORMATION.

LOCATIONS GIVEN ARE APPROXIMATE AND ARE TO BE SITE VERIFIED PRIOR TO THE START OF CONSTRUCTION.

GREENSBURG COMMUNITY HIGH SCHOOL STADIUM AND SITE IMPROVEMENTS

1000 E CENTRAL AVE GREENSBURG, IN 47240

PROJECT: 221055.06

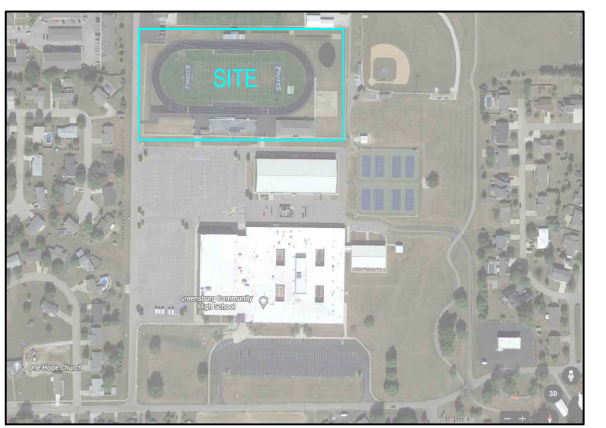
GREENSBURG COMMUNITY SCHOOLS

ARCHITECT



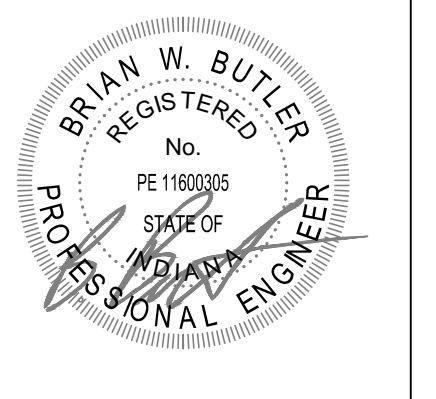
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VICINITY MAP

CONSTRUCTION DOCUMENTS



PROJECT MANAGER: MS

DRAWN BY: BWS

PROJECT NUMBER: 221055.06

PROJECT ISSUE DATE: 8/9/22

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM NO.2	9/8/22

ELECTRICAL SITE PLAN

E2.01



ELECTRICAL SITE PLAN

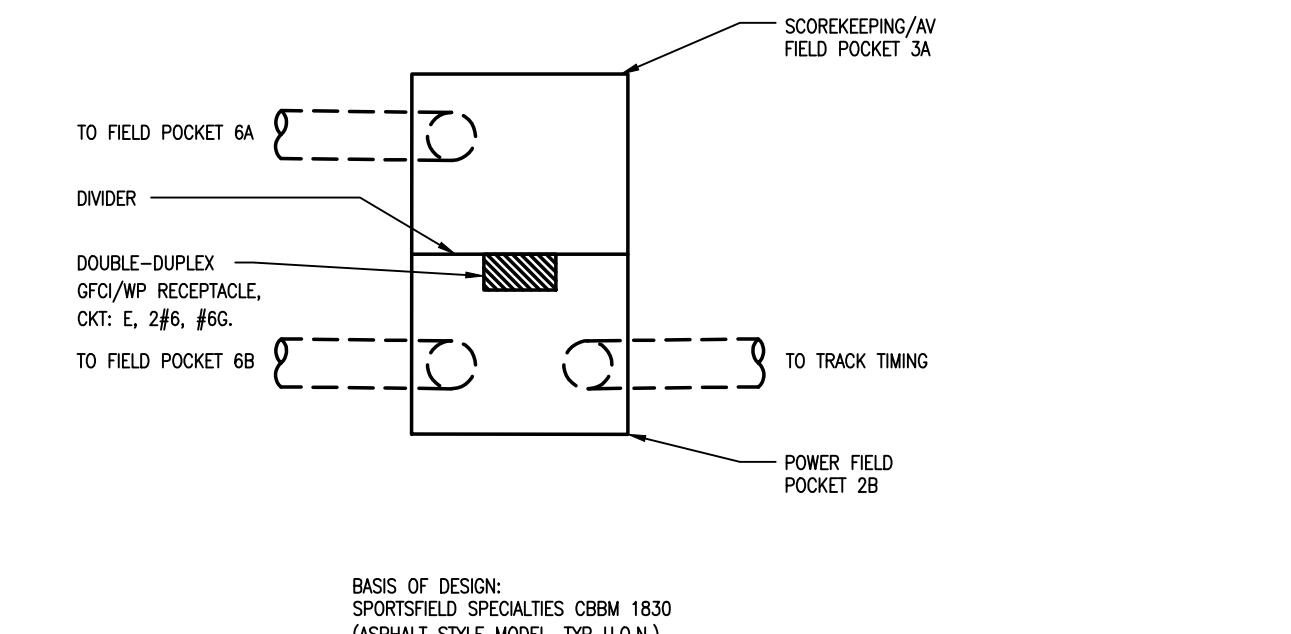
7" = 1'-0"

PLAN NOTES:

- E1) EXTEND EXISTING CIRCUIT AND WIRING TO NEW TIME CLOCK LOCATION.
- E2) EXISTING 480 VOLT DISTRIBUTION PANEL, TRANSFORMER, AND 208 VOLT PANELBOARD ON STRUT RACK.
- E3) PROVIDE ONE (1) 30 AMP, 3 POLE BREAKER IN EXISTING 480 VOLT PANEL FOR NEW FEED TO SCOREBOARD TRANSFORMER / PANEL.
- E4) PROVIDE ONE (1) 2" CONDUIT AND 3 # 8 AND # 8 G TO SCOREBOARD TRANSFORMER / PANEL.
- E5) PROVIDE ONE 24" X 36" FLUSH OPEN BOTTOMED QUARTZITE BOX FOR POWER. LABEL LID AS "ELECTRIC".
- E6) PROVIDE 15 KVA, 480 VOLT INPUT, 208V, 3 PHASE OUTPUT, TRANSFORMER / PANEL, SQUARE D "MINI POWER-ZONE" WITH BOLT ON CIRCUIT BREAKERS, 15 KVA, WITH CAPACITY FOR 24 SINGLE POLE BRANCH BREAKERS. PROVIDE SINGLE POLE AND THREE POLE BRANCH BREAKERS AS REQUIRED FOR VIDEO SCOREBOARD. COORDINATE WITH SUPPLIER PRIOR TO RELEASE OF ORDER. EXTEND FINAL CONNECTION TO SCOREBOARD WITH CONDUIT TRANSPORTED TO WEATHERIGHT FLEXIBLE METALLIC CONDUIT NOT TO EXCEED 3' TOTAL AT SCOREBOARD POWER CONNECTION.
- E7) PROVIDE 2 # 6 AND # 6 G IN CONDUIT FROM EXISTING 208 VOLT PANELBOARD (120 VOLT, 20A, 1P CIRCUIT BREAKERS) TO EACH FIELD POCKET.
- E8) PROVIDE CONDUIT UP TO PRESSBOX FOR A/V WIRING.
- E9) PROVIDE 2 # 6 AND # 6 G IN CONDUIT TO TRACK TIMER.
- D1) THE BACK EXISTING CONDUIT AND WIRING FOR RECONNECTION TO RELOCATED TIME CLOCK.
- D2) EXISTING TIME CLOCK TO REMAIN. PROTECT EXISTING CIRCUIT SERVING TIME CLOCK.
- D3) REMOVE EXISTING BRANCH CIRCUIT CONDUIT AND WIRING SERVING SCOREBOARD BACK TO EXISTING TO REMAIN.

6 FIELD POCKET 6 A,B - PLAN VIEW

3/4" = 1'-0"



1 FIELD POCKET 1 A,B - PLAN VIEW

3/4" = 1'-0"

2 FIELD POCKET 2 A,B - PLAN VIEW

3/4" = 1'-0"

3 FIELD POCKET 3 A,B - PLAN VIEW

3/4" = 1'-0"

4 FIELD POCKET 4 A - PLAN VIEW

3/4" = 1'-0"

5 FIELD POCKET 5 A,B - PLAN VIEW

3/4" = 1'-0"

NEW SHEET ADDED BY ADDENDUM