

ADDENDUM NO. 02

July 14, 2022

**Zionsville Community High School Soccer Stadium and Parking Expansion
4400 S 875 E
Zionsville, IN 46077**

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 June 17, 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 through ADD 2-3, Guideline Schedule, Site Logistics Plan and attached Fanning/Howey Associates, Inc Addendum No. 2 dated July 14, 2022 consisting of three (3) pages, New Specification Section 27 51 16 – Public Address and Mass Notification Systems, Specification Sections 12 93 00 – Site Improvements and Amenities, 32 18 13 – Synthetic Grass Surfacing, 32 31 13 – Chain Link Fences and Gates, 33 46 00 – Subdrainage, and drawing sheets E8.02, GD1.1, G4.2, G5.1, A3.01, E2.01 and E5.01.

A. 00 20 00 – Information Available to Bidders

1. Add paragraph E below:

E. The Site Logistics Plan dated July 13, 2022 is included as part of Addendum 02 to be referenced by all Contractors.

B. 01 12 00 – Multiple Contract Summary

1. Bid Category No. 1 – General Trades

Delete the following clarifications:

15. General Trades Contractor is responsible for installation of scoreboard with all components and accessories. Electrical & Technology Contractor is responsible for necessary power and data for scoreboard as well as making those final connections. Both Contractors are to coordinate Work to ensure proper installation.

Add the following clarifications:

16. The General Trades Contractor is to include 250 equipment hours for a small bulldozer to accommodate the labor hours listed in Clarification #12. The use of equipment is at the discretion of the Construction Manager. At the end of the project, unused equipment hours will be converted into a dollar amount and returned to the Owner as a deduct Change Order.
17. Regarding mass excavation spoils, it is expected that all spoils can be wasted on the project campus. Final location(s) are to be determined, but off-site hauling is not required.
18. General Trades Contractor is responsible for supplying and installing scoreboard. Electrical & Technology Contractor is responsible for necessary power and data for scoreboard as well as making those final connections. Both Contractors are to coordinate Work to ensure proper installation.

2. Bid Category No. 2 – Synthetic Turf

Add the following clarifications:

4. Per the Guideline Schedule included as part of Addendum 02, the Synthetic Turf Work is scheduled to begin after Winter Season. If weather and work progress permits, it is acceptable to begin portions of the Synthetic Turf Work during Fall 2022. Synthetic Turf Contractor is to coordinate with Construction Manager and General Trades Contractor. Synthetic Turf Work must be complete by early June 2023.

3. Bid Category No. 3 – Electrical & Technology

Add the following specification sections:

27 51 16 – Public Address and Mass Notification Systems

Delete the following clarifications:

3. General Trades Contractor is responsible for installation of scoreboard with all components and accessories. Electrical & Technology Contractor is responsible for necessary power and data for scoreboard as well as making those final connections. Both Contractors are to coordinate Work to ensure proper installation.

Add the following clarifications:

4. General Trades Contractor is responsible for supplying and installing scoreboard. Electrical & Technology Contractor is responsible for necessary power and data for scoreboard as well as making those final connections. Both Contractors are to coordinate Work to ensure proper installation.

C. 01 32 00 – Schedules and Reports

1. Add Sub-Paragraph 3 below to Section 1.03 Guideline Schedule:

3. The Guideline Schedule dated July 13, 2022 is included as part of Addendum 02 to be referenced by all Contractors.

Activity Name	Original Duration	Start	Finish	2022												2023												in
				Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec							
Zionsville HS Soccer Stadium & Parking Expansion	231	10-Aug-22	06-Jul-23	Zionsville HS Soccer Stadium & Parking Expansion																								
Project Administration	231	10-Aug-22	06-Jul-23	Project Administration																								
Mileston Dates	231	10-Aug-22	06-Jul-23	Mileston Dates																								
Notice to Proceed	0	10-Aug-22*		◆ Notice to Proceed																								
Mobilization	0	01-Sep-22*		◆ Mobilization																								
Substantial Completion	0		14-Jun-23*	◆ Substantial Completion																								
Punchlist	15	15-Jun-23	06-Jul-23	▬ Punchlist																								
Final Completion	0		06-Jul-23	◆ Final Completion																								
Material Procurement / Submittals	120	10-Aug-22	31-Jan-23	Material Procurement / Submittals																								
Long Lead Material Submission	15	10-Aug-22	30-Aug-22	▬ Long Lead Material Submission																								
General Submittals	25	10-Aug-22	14-Sep-22	▬ General Submittals																								
Storm Sewer Submittals	5	10-Aug-22	16-Aug-22	▬ Storm Sewer Submittals																								
Storm Sewer Review	5	17-Aug-22	23-Aug-22	▬ Storm Sewer Review																								
Structure Procurement	30	24-Aug-22	05-Oct-22	▬ Structure Procurement																								
Submittal Review	25	31-Aug-22	05-Oct-22	▬ Submittal Review																								
Long Lead Material Procurement	90	22-Sep-22	31-Jan-23	▬ Long Lead Material Procurement																								
General Material Procurement	40	22-Sep-22	16-Nov-22	▬ General Material Procurement																								
Sitework	198	01-Sep-22	12-Jun-23	Sitework																								
Site Utilities	60	06-Oct-22	03-Jan-23	Site Utilities																								
ST-300 Series Storm Sewer	10	06-Oct-22	19-Oct-22	▬ ST-300 Series Storm Sewer																								
ST-200 Series Storm Sewer	20	20-Oct-22	16-Nov-22	▬ ST-200 Series Storm Sewer																								
ST-100 Series Storm Sewer	20	17-Nov-22	16-Dec-22	▬ ST-100 Series Storm Sewer																								
Sanitary Sewer	10	19-Dec-22	03-Jan-23	▬ Sanitary Sewer																								
Site Water	10	19-Dec-22	03-Jan-23*	▬ Site Water																								
Site Improvements	198	01-Sep-22	12-Jun-23	Site Improvements																								
Construction Fence	2	01-Sep-22	02-Sep-22	▬ Construction Fence																								
Erosion Control Measures	2	01-Sep-22	02-Sep-22	▬ Erosion Control Measures																								
Mass Excavation - Pond Expansion	15	06-Sep-22	26-Sep-22	▬ Mass Excavation - Pond Expansion																								
Mass Excavation / Earthmoving - Reloc	5	27-Sep-22	03-Oct-22	▬ Mass Excavation / Earthmoving - Relocated Field																								
Grading - Relocated Field	5	04-Oct-22	10-Oct-22	▬ Grading - Relocated Field																								

- ▬

Actual Work
- ▬

Summary
- ▬

Remaining Work
- ▬

Critical Remaining Work
- ◆

◆ Milestone

Zionsville HS Soccer Stadium Parking Expansion

Guideline Schedule 13-Jul-22



Activity Name		Original Duration	Start	Finish	22						2023												4					
					Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		n				
		Topsoil - Relocated Field	5	11-Oct-22	17-Oct-22																							
		Mass Excavation / Earthmoving - Synth	10	18-Oct-22	31-Oct-22																							
		Seeding - Relocated Field	5	18-Oct-22	24-Oct-22																							
		Grading - Synthetic Turf Field	10	01-Nov-22	14-Nov-22																							
		Mass Excavation / Earthmoving - Parkii	5	15-Nov-22	21-Nov-22																							
		Grading - Parking Lot	10	22-Nov-22	07-Dec-22																							
		Site Electrical	20	08-Dec-22	06-Jan-23																							
		Concrete Curb - Parking Lot	15	13-Mar-23*	31-Mar-23																							
		Asphalt Stone & Binder	15	03-Apr-23	21-Apr-23																							
		Site Lighting	15	24-Apr-23	12-May-23																							
		Site Concrete	15	11-May-23	31-May-23																							
		Asphalt Wearing Course	5	01-Jun-23*	07-Jun-23																							
		Asphalt Striping	3	08-Jun-23	12-Jun-23*																							
	Concessions Building		130	08-Dec-22	09-Jun-23																							
	Concrete Footings	10	08-Dec-22	21-Dec-22																								
	Exterior CMU Walls	20	22-Dec-22	20-Jan-23																								
	Door Frames	5	30-Dec-22	06-Jan-23																								
	Underslab MEP	10	09-Jan-23	20-Jan-23																								
	Concrete Slab on Grade	5	23-Jan-23	27-Jan-23																								
	Wood Trusses	5	30-Jan-23	03-Feb-23																								
	Roofing	10	06-Feb-23	17-Feb-23																								
	Interior CMU Walls	20	20-Feb-23	17-Mar-23																								
	In-Wall MEP Rough-In	15	20-Feb-23	10-Mar-23																								
	Coiling Doors	5	20-Feb-23	24-Feb-23																								
	Overhead MEP-In	15	13-Mar-23	31-Mar-23																								
	Ceilings	15	27-Mar-23	14-Apr-23																								
	Batt Insulation	5	10-Apr-23	14-Apr-23																								
	Lighting	5	17-Apr-23	21-Apr-23																								
	Painting	10	24-Apr-23	05-May-23																								
	Site Concrete	10	27-Apr-23*	10-May-23																								

▲ Actual Work

▲ Remaining Work

▲ Critical Remaining Work
























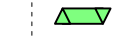

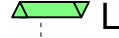





◆ Milestone

▲ Summary

Zionsville HS Soccer Stadium Parking Expansion

Guideline Schedule 13-Jul-22



Activity Name		Original Duration	Start	Finish	22						2023												in											
					Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
	Epoxy Flooring	10	08-May-23	19-May-23												Epoxy Flooring																		
	Aluminum Awning	5	11-May-23	17-May-23												Aluminum Awning																		
	Landscaping & Site Furnishings	15	11-May-23	31-May-23												Landscaping & Site Furnishings																		
	Decorative Masonry Piers	5	18-May-23	24-May-23												Decorative Masonry Piers																		
	Restroom Fixtures	5	22-May-23	26-May-23												Restroom Fixtures																		
	Decorative Fencing & Gates	5	25-May-23	31-May-23												Decorative Fencing & Gates																		
	Restroom Partitions & Accessories	10	29-May-23	09-Jun-23*												Restroom Partitions & Accessories																		
	Synthetic Turf Field	148	15-Nov-22	14-Jun-23													Synthetic Turf Field																	
	Concrete Curb	15	15-Nov-22	07-Dec-22													Concrete Curb																	
	Tension Netting Posts	10	15-Nov-22	30-Nov-22													Tension Netting Posts																	
	Perimeter Drain	15	01-Dec-22	21-Dec-22													Perimeter Drain																	
	West Bleacher Foundation & Slab	20	30-Jan-23	24-Feb-23													West Bleacher Foundation & Slab																	
	Sports Lighting	20	30-Jan-23	24-Feb-23													Sports Lighting																	
	West Bleacher System	15	27-Feb-23	17-Mar-23													West Bleacher System																	
	Geotextile & Flat Underdrains	5	15-Mar-23*	21-Mar-23													Geotextile & Flat Underdrains																	
	Wood Nailer	5	15-Mar-23	21-Mar-23													Wood Nailer																	
	Pressbox	10	20-Mar-23	31-Mar-23													Pressbox																	
	Granular Stone Subbase	10	22-Mar-23	04-Apr-23													Granular Stone Subbase																	
	West Site Concrete	5	03-Apr-23	07-Apr-23													West Site Concrete																	
	Fine Stone Subbase	15	05-Apr-23	25-Apr-23													Fine Stone Subbase																	
	East Bleacher Foundation & Slab	8	10-Apr-23	19-Apr-23													East Bleacher Foundation & Slab																	
	Decorative Fence & Gates	25	10-Apr-23	12-May-23													Decorative Fence & Gates																	
	East Site Concrete	5	20-Apr-23	26-Apr-23													East Site Concrete																	
	Synthetic Turf Carpet	20	26-Apr-23	23-May-23													Synthetic Turf Carpet																	
	North Site Concrete	10	11-May-23	24-May-23													North Site Concrete																	
	Synthetic Turf Infill	10	24-May-23	06-Jun-23													Synthetic Turf Infill																	
Landscaping & Site Furnishings	15	25-May-23	14-Jun-23													Landscaping & Site Furnishings																		
Field Equipment	5	31-May-23	06-Jun-23*													Field Equipment																		
 Actual Work  Summary															<i>Zionsville HS Soccer Stadium Parking Expansion</i>																			
															<i>Guideline Schedule 13-Jul-22</i>																			
															<i>3 of 3</i>																			

ZIONSVILLE COMMUNITY HIGH SCHOOL SOCCER STADIUM AND PARKING EXPANSION

4400 S 875 E
ZIONSVILLE, INDIANA 46077

ZIONSVILLE COMMUNITY SCHOOLS



ARCHITECT



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CIVIL ENGINEER



3901 W 86th Street, Suite 200
Indianapolis, IN 46268
Phone: (317) 334-1500
www.tlf-engineers.com

REV. NO.	DESCRIPTION	DATE

SITE LOGISTICS PLAN

7/13/22

SITE LOGISTICS NOTES:

1. All Temporary Construction Fence is to be in place prior to commencement of any Work.
2. Owner Occupied Space is to remain accessible at all times via Pedestrian Walk Path. The Owner Occupied Space is practice soccer fields that will be used by student athletes during the Project life span. All Contractors are to take extreme caution when working around these areas. Any work in this area is to be coordinated with the Construction Manager.
3. The Pedestrian Walk Path is a designated grass walking path for student athletes. All Work such as site utilities that may interfere with this path is to be coordinated with the Construction Manager.
4. The Main Contractor Equipment / Haul Route is the proposed route for equipment traffic between the north and south portions of the project. The General Trades Contractor is responsible to maintain this route for equipment access. Maintenance may include but is not limited to: re-grading after ruts form, demucking, stone placement, snow/ice removal, etc. The General Trades Contractor shall anticipate this route being used by heavy equipment including but not limited to: bulldozers, excavators, lulls, concrete trucks, cranes, etc. All Contractors are responsible to use this area in a way to minimize excessive damage to prevent unnecessary maintenance.
5. No equipment traffic is permitted outside of the Temporary Construction Fence.
6. Construction Laydown and Staging shall be constructed of 8" depth #53 stone. Installation of the Construction Laydown and Staging area is to be coordinated with the Construction Manager. It is anticipated this stone will be place following installation of storm sewer structures in this location. The General Trades Contractor is responsible to maintain the Construction Laydown and Staging. Maintenance may include but is not limited to: re-grading after ruts form, compaction, stone placement, snow/ice removal, etc. All Contractors are responsible to use this area in a way to minimize excessive damage to prevent unnecessary maintenance.
7. The General Trades Contractor is responsible for protecting utility structures located within or near "Construction Laydown and Staging" and "Main Contractor Equipment / Haul Route." Protection should include steel road plates covering each structure. All Contractors shall coordinate with General Trades Contractor to best prevent damage to underground utilities and structures.
8. The General Trades Contractor is responsible for lawn and weed maintenance within the Temporary Construction Fence. Weeds are to be maintained on both sides directly adjacent to Temporary Construction Fence.
9. The General Trades Contractor is responsible for snow and ice removal within the Temporary Construction Fence. Particular care should be taken to remove snow and ice from equipment and pedestrian traffic routes, asphalt surfaces, concrete surfaces, and locations immediately around the Skillman Jobsite Trailer.
10. It is encouraged and acceptable for the General Trades Contractor to install asphalt binder in the Fall of 2022 in lieu of stone for Construction Laydown and Staging. This shall be coordinated with the Construction Manager.
11. All stone used for Construction Laydown and Staging must be inspected by Construction Manager or Third Party Agency prior to use as part of permanent asphalt system. All unsuitable stone is to be hauled off by the General Trades Contractor at no additional cost to the Owner.

LEGEND

- Temporary Construction Fence
- Construction Gate
- TSC
- Skillman Jobsite Trailer
- Owner Occupied Space
- Construction Laydown and Staging
- Pedestrian Walk Path
- Main Contractor Equipment / Haul Route

Spoils can be spread on site throughout the campus as directed by TSC

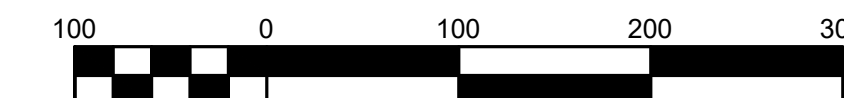
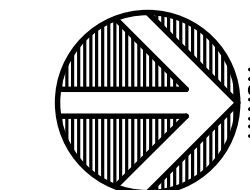


Know what's below.
Call before you dig.

Call 811 or 1-800-382-5544 Before You Begin Any Digging Project.
Call 48 hours or 2 working days before you dig.
It's Fast, It's Easy and It's the Law in the state of Indiana!

CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.



ADDENDUM NO. 2

Zionsville Community High School Soccer Stadium and Parking Expansion

Zionsville Community Schools
Zionsville, Indiana

Project No. 221192.00

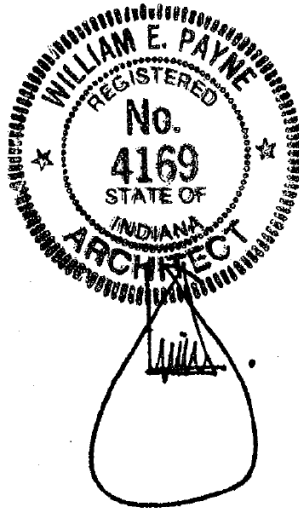
Index of Contents

Addendum No. 2, 12 items, 3 pages
New Project Manual Section: 27 51 16 – Public Address and Mass Notification Systems
New Drawing Sheet: E8.02
Revised Drawing Sheets: GD1.1, G4.2, G5.1, A3.01, E2.01, and E5.01

Date: July 14, 2022

I hereby certify that this Addendum was prepared by me or under my direct supervision and that I am a duly registered Architect/Engineer under the Laws of the State of Indiana.

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 June 17, 2022, for Zionsville Community High School Soccer Stadium and Parking Expansion, for Zionsville Community Schools, 900 Mulberry Street, Zionsville, Indiana; 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. ADDENDUM NO. 1

A. Item No. 6: Change Paragraph C., to read as follows:

“C. Replace 2.2, D., 9., g., as follows:

- g. Base Bid – Infill materials without shock pad: Sand 70% and Rubber 30% - 1.5 lbs of sand/3.2 lbs of rubber.

B. Item No. 6: Change Paragraph D., to read as follows:

D. Replace 2.2, D., 9., h., as follows:

- “h. Alternate Bid – Infill materials with shock pad: Sand 60% and Rubber 40% - 2.9 lbs sand/2.9 lbs of rubber.

C. Item No. 6: Delete paragraph E., in its entirety and refer to new revisions to 2.2, E., 2., within this Addendum.

ITEM NO. 2. NEW PROJECT MANUAL SECTION(S)

A. New Project Manual Section 27 51 16 – Public Address and Mass Notification Systems, dated 7/14/22, is included with and hereby made a part of this Addendum.

ITEM NO. 3. PROJECT MANUAL, TABLE OF CONTENTS

A. Book 2, Page 00 00 20-5, DIVISION 27: Add Section 27 51 16 – Public Address and Mass Notification Systems.

ITEM NO. 4. PROJECT MANUAL, SECTION 12 93 00 – SITE IMPROVEMENTS AND AMENITIES

A. Delete 1.02, A., 5., in its entirety.

B. Delete 2.07, in its entirety.

ITEM NO. 5. PROJECT MANUAL, SECTION 32 18 13 – SYNTHETIC GRASS SURFACING

A. Add 1.7, A., 1., f., as follows:

“f. 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/manufacturer. Repair or replace portions of aggregate subbase that fails, settles or creates imperfections in the synthetic grass planarity negatively impacting the surface, safety, playability and overall drainage of the playing field.

B. Article 2.1, A., 3: Replace “Tarkett XT-57-48” with “XT-50”.

C. Article 2.1, A., 5: Replace “Mondo FTS3” with “Slit Film Fiber Series”.

D. Replace 2.2, D., 6., as follows:

“6. Seams: New synthetic turf materials are manufactured in panels or rolls that are typically 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.”

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

“2. Rubber: The rubber infill utilizes material that is styrene butadiene rubber (SBR) rubber granules. Both ambient and/or cryogenic rubber can be used.
a. Rubber granules must be clean and metal free.”

ITEM NO. 6. PROJECT MANUAL, SECTION 32 31 13 – CHAIN LINK FENCES AND GATES

A. Replace 3.1, H., as follows:

“H. Line Posts: Space line posts uniformly at 10'-0" o.c.”

ITEM NO. 7. PROJECT MANUAL, SECTION 33 46 00 – SUBDRAINAGE

A. Replace 2.1, C., as follows:

“C. Flat pipe for athletic synthetic grass surfacing turf field underdrain: Flat pipe drain panels shall be 1x12" corrugated SportsEdge HQ – 12 panel drain system as manufactured by SportsEdge, Troutman, North Carolina or equal.

(note: subparagraphs 1., 2., 3., and 4., remain unchanged)

ITEM NO. 8. 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 08 91 19 – Fixed Louvers
- Pottorff, Fort Worth, Texas

Section 26 51 00 - Interior Lighting
Type LN2, LN2X – Columbia MPS series
Type LWB – Columbia MPS series

Section 26 56 00 - Exterior Lighting
Type A – Beacon VP series, Lumark Prevail series
Type B – Beacon VP series, Lumark Prevail series
Type C – Beacon VP series, Lumark Prevail series

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

ITEM NO. 9. NEW DRAWING SHEET(S)

- A. New Drawing Sheet No. E8.02 – Sound System Details, is included with and hereby made a part of this Addendum.

ITEM NO. 10. REVISED DRAWING SHEETS

- A. Drawing Sheets: GD1.1, G4.2, G5.1, A3.01, E2.01, and E5.01 have been revised, dated 7/14/22, and are included with and hereby made a part of this Addendum. These Drawings supersede the original documents.

ITEM NO. 11. REVISED DRAWING SHEET NO. S1.02

- A. Visitor Bleacher Foundation Plan: Overall dimension along top of plan, change “84’-0”” to “86’-3””.
- B. Visitor Bleacher Foundation Plan: Dimension line along bottom of plan, change “68’-0”” to “71’-0”” and “4’-6”” to “3’-9””.

ITEM NO. 12. REVISED DRAWING SHEET NO. E8.01

- A. Light fixture type B – revise lumen output to 34,665.
- B. Light fixture type C – revise lumen output to 28,254.
- C. Light fixture type D – fixture shall be by allowance, provide \$500 per unit allowance, installation to be provided as part of base bid.
- D. Light fixture type E - fixture shall be by allowance, provide \$800 per unit allowance, installation to be provided as part of base bid, revise wattage to 55 watts, revise lumen output to 6203, applied load 55 VA.
- E. Light fixture type LT2 and LT2X – fixture shall Metalux 24FPX LED series, Lithonia CPANL series, or Columbia CFP series, and shall be surface mounted on ceiling with shallow surface mount kit.

END OF ADDENDUM

SECTION 27 51 16 - PUBLIC ADDRESS AND MASS NOTIFICATION SYSTEMS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes but is not limited to the following:
 - 1. Loud speakers.
 - 2. Program sources and recorders.
 - 3. Power amplifiers.
 - 4. Audio signal processors.
 - 5. Wired microphones
 - 6. Wireless microphones.
 - 7. Assistive listening systems.
 - 8. Sound system equipment cabinets and its accessories.
 - 9. Miscellaneous sound equipment, cables, hardware, etc.
- B. Related section includes the following:
 - 1. Division 01 – General Requirements
 - 2. Division 26 – Electrical
 - 3. Division 27 – Communications Sections.
 - 4. Division 28 – Electronic Safety and Security

1.3 SECTION DEFINITIONS

- A. HF: High frequency.
- B. IR: Infrared.
- C. LAN: Local area network.
- D. LF: Low frequency.
- E. SPL: Sound Pressure Level.
- F. VU: Volume unit.
- G. Channels: Separate parallel signal paths, from sources to loudspeakers or loudspeaker zones, with separate amplification and switching that permit selection between paths for speaker alternative program signals.
- H. Zone: Separate group of loudspeakers and associated supply wiring that may be arranged for selective switching between different channels.

1.4 SUBMITTALS

- A. Shop Drawings: Signed and sealed by a qualified sound system engineer.
 - 1. Design Calculations: Calculate requirements for selecting seismic restraints for central control cabinets.
 - 2. Equipment Details: Detail equipment assemblies and indicate dimensions, weights, required clearances, method of field assembly, components, and location of each field connection.
 - 3. Console layouts.
 - 4. Control panels.
 - 5. Rack arrangements.

6. Wiring Diagrams: Power, signal, and control wiring. Include the following:
 - a). Identify terminals to facilitate installation, operation, and maintenance.
 - b). Single-line diagram showing interconnection of components.
 - c). Cabling diagram showing cable routing.
 7. Loudspeakers mounting details.
 8. Loudspeakers locations and aiming details.
- B. Quality Assurance/Control Submittals:
1. Product Data: For each item specified.
 2. Calculations: For sizing backup battery.
 3. Coordination Drawings: Reflected ceiling plans, drawn to scale, on which the following items are shown and coordinated with each other, based on input from installers of the items involved:
 - a). Ceiling-mounted items including lighting fixtures, diffusers, grilles, speakers, sprinklers, access panels, and special moldings.
- C. Closeout Submittals:
1. Operation and Maintenance Data: For public address and music equipment to include in emergency, operation, and maintenance manuals.
 2. Extra Materials: Receipt for extra materials.
 3. Loose Equipment: Receipt for loose materials not fastened in place.
- D. See Common Work Results For Communications section 270500 for more submittal requirements.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.
1. Maintenance Proximity: Not more than 2 hours' normal travel time from Installer's place of business to Project site.
 2. Cable installer must have on staff a registered communication distribution designer certified by Building Industry Consulting Service International.
 3. Installation shall be by personnel certified by National Institute for Certification in Engineering Technologies as audio systems Level III technician.
- B. Source Limitations: Obtain public address and music equipment through a single source authorized by manufacturer to distribute each product.
- C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- D. Comply with NFPA 70 – National Electrical Code.
- E. Comply with UL 50.
- F. TIA/EIA-607 Telecommunications grounding.
- G. Latest edition of BISC – TDMM – manual
- H. Americans with Disabilities Act (ADA)
- I. Federal Communications Commission, Part 15
- J. Sound System Engineering (Davis and Patronics) 3rd Edition 2006.
- K. NSCA – Certified Systems Installer, C-SI
- L. InfoComm International – Certified Technology Specialist, CTS.

- M. Provide labeling per ANSI/EIA/TIA-606 requirement and in accordance with the Owner and Technology Consultant.

1.6 COORDINATION

- A. Coordinate layout and installation of system components and suspension system with other construction that penetrates ceilings or is supported by them, including light fixtures, HVAC equipment, fire-suppression system, and partition assemblies.

1.7 WARRANTY

- A. The public address and mass notifications system shall carry a warranty as specified in Section "Demonstration and Training of Communications Systems".

1.8 TRAINING

- A. Provide training per Section "Demonstration and Training of Communications Systems".

1.9 RECORD DRAWINGS/OPERATION AND MAINTENANCE MANUALS

- A. Provide record drawings and operation and maintenance manuals as described in Sections "Operation and Maintenance of Communications" and "Common Works Results for Communication Systems".

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. The following manufacturers' and their products are approved products to be used, shortened versions (shown in parentheses) of the following manufacturers' names are used in other Part 2 articles:

1. AKG Acoustics; A Harman International Company (AKG).
2. AMK
3. Allen & Heath Limited (A&H).
4. Ashly Audio, Inc. (Ashly).
5. Atlas Soundolier; Atlas Sound (Atlas).
6. Audio Technica, U.S., Inc.
7. Bogen Communications International, Inc. (Bogen)
8. D & M Professional; Denon Professional products (Denon).
9. Eastern Acoustic Works (EAW).
10. Electro-Voice, Inc.; Telex Communications, Inc. (EV).
11. Gentner ALS; A Starin Company (Gentner).
12. Intelix, LLC (Intelix).
13. JBL Professional; A Harman International Company (JBL).
14. Lab Gruppen
15. Listen Technologies Corporation.
16. LOUD Technologies, Inc.; Mackie products (Mackie).
17. Lowell Manufacturing Company (Lowell).
18. Meyer Sound Laboratories Inc. (Meyer).
19. Midas U.S.A; Telex Communications, Inc. (Midas).
20. Peavey Electronics Corporation; Architectural Acoustics by Peavey products. (Peavey).
21. ONE Systems
22. QSC Audio Products, Inc. (QSC).
23. Quam Nichols Company (Quam).
24. Rane Corporation (Rane).
25. Rauland-Borg Corporation (Rauland).
26. Renkus-Heinz, Inc.
27. Sennheiser Electronic Corporation.
28. Shure Incorporated (Shure).
29. Soundcraft; A Harman International Company (Soundcraft).
30. Symetrix, Inc. (Symetrix).
31. TASCAM; a division of TEAC America, Inc. (TASCAM).

32. Telex Communications, Inc. (Telex).
33. TOA Electronics, Inc. (TOA).
34. Yamaha Corporation of America (Yamaha).

2.2 EQUIPMENT AND MATERIALS

- A. Coordinate features to form an integrated system. Match components and interconnections for optimum performance of specified functions.
- B. Equipment: Modular type using solid-state components, fully rated for continuous duty, unless otherwise indicated. Select equipment for normal operation on input power usually supplied at 110 to 130 V, 60 Hz.
- C. Waterproof Equipment: Listed and labeled for outdoor use.

2.3 LOUDSPEAKER SYSTEMS

- A. See plans for specific types.
 1. Provide brackets and mounting hardware for pole mounting.

2.4 POWER AMPLIFIERS

- A. Approved Manufacturers:
 1. QSC Audio Products, Inc
- B. Provide power amplifiers, as shown, that meets to the following requirements:
 1. Comply with TIA/EIA SE-101-A.
 2. Mounting: TIA/EIA-310-D, standard 19-inch rack mounted.
 3. Output Regulation: Less than 2 dB from full to no load.
 4. Controls: On/off, input levels, and low-cut filter.
- C. Accessories
 1. Rack-mount kit
 2. Power cable
- D. Rack Spaces
 1. Up to 4000 watt – 2U

2.5 DIGITAL SIGNAL PROCESSORS (DSP)

- A. Provide digital processor with the required inputs and outputs shown on plans with 25% spare capacity. Provide additional networked input / output expanders as required.
 1. Accessories
 - a). External control options:
 - 1) Provide a tabletop mounted touchscreen and stand.
 - 2) Provide a mobile tablet app interface. Software app interface must be programmed for volume control functions. Coordinate settings with owner.
 - 3) Logic Outputs: Provide indication of preset changes and mutes.
 - b). Rack-Mount Bracket: TIA/EIA-310-D, standard 19-inch.
 - c). Provide all required patch cables.
 2. Approved Manufacturer
 - a). See plans.

2.6 PROGRAM SOURCES AND RECORDERS

- A. Bluetooth/USB Player
 1. Approved Manufacturer:
 - a). See plans.
 2. Provide as follows:

- a). Rack mountable.
- b). Connect up to 8 Bluetooth devices simultaneously
- c). Multiple playback modes, continuous, single, programmed, random
- d). RCA analog inputs.
- e). Serial control via RS-232C.
- 3. Accessories
 - a). Rack-Mount Bracket: TIA/EIA-310-D, standard 19-inch.

2.7 WIRED MICROPHONES

- A. Wired Microphone
 - 1. Approved Manufacturer:
 - a). See plans.
 - 2. Accessories
 - a). Windscreen
 - b). Cable
 - c). Snap in stand clamp.
 - d). Desk stand

2.8 WIRELESS MICROPHONES

- A. Approved Manufacturer:
 - 1. See plans.
- B. Provide combination wireless systems as follows:
 - 1. Provide one receiver and transmitter for each microphone.
 - 2. Systems in the 600 MHz service band are not acceptable.

2.9 ASSISTIVE LISTENING SYSTEMS

- A. Approved Manufacturer:
 - 1. Gentner model TX-37A transmitter and model Digital-1 receivers.
 - 2. Listen Technologies Corporation, LS-O3 /LT803 series
 - 3. Telex Communications, Inc.; Sound Mate products SM-2 series
 - 4. Sennheiser Electronic Corporation.
 - 5. Williams Sound, PPA 375 series
- B. Provide rack mounted assistive listening transmitter, remote mounted 1/2-wave antenna, ear bud receivers, tele coils, and wall plaque, as follows:
 - 1. Provide hard shell, foam lined storage case to house receivers.
 - 2. Provide one complete set and one spare set of batteries.
 - 3. Provide rack mount
 - 4. Provide universal antenna mounting kit.
 - 5. Provide receivers with ear speaker.
 - 6. Provide hearing aid compatible receivers (minimum of one per four receivers).
 - 7. Provide one set which includes the following:
 - a). Antenna and mount
 - b). Coax cable
 - c). Charger
 - d). Rack-mounted transmitter
 - e). Body pack style receivers (4)
 - f). Storage case
- C. Each system within the building shall be on a separate frequency and each receiver shall be able to tune to any frequency inside the building.
- D. Provide extra body style receivers, 4 total.

2.10 FREE STANDING SOUND EQUIPMENT CABINETS

- A. All sound equipment shall be housed in free-standing steel protective cabinets.
- B. The equipment cabinets shall have solid sides and vented back panels and lockable and latching front and back doors. Units to have front vented hinged door. (All locks shall be keyed alike).
- C. The sound system equipment cabinets shall be 22 inches wide by 25 inches deep and 83-1/8 inches high with leveling feet/or casters.
- D. The equipment cabinets shall be made of steel construction and fully welded corners.
- E. The equipment cabinets shall have powder coat finish, finish shall be black.
- F. Provide integrated quiet fan with 150-250 CFM in each equipment cabinet with fan guards (external and internal), fan shall have less than 47 - 49 dBA noise rating.
- G. Provide vertical power strip with 20 amp receptacles for each cabinet.
- H. At each equipment cabinet provide plastic wire holding clips.
- I. Provide copper bus bar.
- J. Provide 100 spare mounting screws for each equipment cabinet.
- K. Provide mounting rails.
- L. Provide vented panels between sound equipment as needed.
- M. Provide blank panels between sound equipment as needed.
- N. Provide adjustable vented shelves, shelf shall adjust from 23 to 32 inches, with a weight capacity of 200 Lbs, steel with black powder finish.
- O. Provide telescoping full depth heavy duty vented shelves ,shelf shall adjust from 16 to 44 inches, with a weight capacity of 500 Lbs, 16 GA steel with durable black powder finish.
- P. Provide heavy duty sliding shelf , full 14 " extension, heavy gauge steel with black powder finis, weight capacity of 50 Lbs.
- Q. Equipment cabinet shall be UL listed.
- R. Provide 2 U drawers.
- S. Approved Manufacturer:
 - 1. Middle Atlantic ERK-series (22"W x 25"D)
 - 2. CPI C-series.
 - 3. Hoffman EER-series type I
 - 4. B Line V-Line series.

2.11 MISCELLANEOUS COMPONENTS

- A. Provide microphone outlet, as follows:
 - 1. Three-pole, polarized, locking-type, microphone receptacles in single-gang boxes.
 - 2. Provide wall outlets with brushed stainless-steel device plates.
 - 3. Provide floor outlets with gray tapered rubber or plastic cable nozzles and fixed outlet covers.

- B. Conductors and Cables: Jacketed, twisted pair and twisted multi-pair, untinned solid copper.
 - 1. Insulation for Wire in Conduit: Thermoplastic, not less than 1/32 inch thick.
 - 2. Microphone Cables: Neoprene jacketed, not less than 2/64 inch thick, over shield with filled interstices. Shield No. 34 AWG tinned, soft-copper strands formed into a braid or approved equivalent foil. Shielding coverage on conductors is not less than 60 percent.
 - 3. Plenum Cable: Listed and labeled for plenum installation.

2.12 UNIVERSAL POWER SEQUENCE/POWER MODULAR GROUNDING OUTLETS

- A. Unit shall be rack mounted.
- B. Unit shall operate on 120 volt AC, 60Hz.
- C. Unit shall LED indicator.
- D. Unit shall have on/off master switch.
- E. Provide modular raceway system.
- F. Unit shall be connected to 20 amp circuits for 6.20 amp circuits.
- G. Approved manufacturers:
 - 1. Middle Atlantic USC-6R universal sequence with MPR6-R-20 (quantity of 6) modular raceway system.

2.13 POWER STRIPS

- A. Provide vertical power strip in each sound system cabinet, as follows:
 - 1. 12 – 20 amp receptacles, 120 volts.
 - 2. Cord with NEMA 5 – 20P plug.
 - 3. 50 to 60 inches long.
 - 4. Single circuit.
 - 5. UL listed 1363.
- B. Provide horizontal power strip in each sound system cabinet.
 - 1. 6 – 20 amp receptacles
 - 2. Cord with NEMA 5 – 20 plug
 - 3. Single circuit
 - 4. UL listed 1419
- C. Unit shall be rack or cabinet mounted.
- D. Approved manufacturers:
 - 1. Middle Atlantic PD-2020C-NS (Vertical).
 - 2. Hubbell PR20620 (Vertical)
 - 3. Panduit CMRPSVD20 (Vertical)
 - 4. Middle Atlantic PDS-620R (Horizontal).
 - 5. Hubbell PR1020 (Horizontal)
 - 6. Panduit CMRPSHD20 (Horizontal)

2.14 POWER DISTRIBUTION

- A. Power Distribution Unit: Horizontally rack mount power distribution unit consisting of power conditioner with 15-amp circuit breaker and 8 rear mounted 15-amp receptacles. Unit shall fit in one rack unit and supplied with 10 foot heavy duty power cord.
 - 1. Approved Manufacturers:
 - a). Middle Atlantic: PDS-615R.
 - b). Atlas Sound: ACRL 191B series
 - c). Furman: M-8 series
 - 2. Arrange unit at top of rack.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Wiring Method: Install wiring in raceways unless otherwise noted.
- B. Wiring within Enclosures: Bundle, lace, and train conductors to terminal points with no excess. Use lacing bars in cabinets.
- C. Control-Circuit Wiring: Install number and size of conductors as recommended by system manufacturer for control functions indicated.
- D. Separation of Wires: Separate speaker-microphone, line-level, speaker-level, and power wiring runs. Install in separate raceways or, where exposed or in same enclosure, separate conductors at least 12 inches for speaker microphones and adjacent parallel power and telephone wiring. Separate other intercommunication equipment conductors as recommended by equipment manufacturer.
- E. Splices, Taps, and Terminations: Arrange on numbered terminal strips in junction, pull, and outlet boxes; terminal cabinets; and equipment enclosures.
- F. Match input and output impedances and signal levels at signal interfaces. Provide matching networks where required.
- G. Identification of Conductors and Cables: Color-code conductors and apply wire and cable marking tape to designate wires and cables so they identify media in coordination with system wiring diagrams.
- H. Wall-Mounting Outlets: Flush mounted.
- I. Conductor Sizing: Unless otherwise indicated, size speaker circuit conductors from racks to loudspeaker outlets not smaller than No. 12 AWG and conductors from microphone receptacles to amplifiers not smaller than No. 16 AWG.
- J. Weatherproof Equipment: For units that are mounted outdoors, in damp locations, or where exposed to weather, install consistent with requirements of weatherproof rating.
- K. Connect wiring according to local and national codes.

3.2 GROUNDING

- A. Ground cable shields and equipment to eliminate shock hazard and to minimize ground loops, common-mode returns, noise pickup, cross talk, and other impairments.
- B. Signal Ground Terminal: Locate at main equipment cabinet. Isolate from power system and equipment grounding.
- C. Install grounding electrodes as specified in Division 26 Section "Grounding and Bonding for Electrical Systems."

3.3 FIELD QUALITY CONTROL

- A. Perform the following field tests and inspections and prepare test reports:
 - 1. Schedule tests with at least seven days' advance notice of test performance.
 - 2. After installing public address and music equipment and after electrical circuitry has been energized, test for compliance with requirements.
 - 3. Operational Test: Perform tests that include originating program and page messages at microphone outlets, preamplifier program inputs, and other inputs. Verify proper routing and volume levels and that system is free of noise and distortion.

4. Signal-to-Noise Ratio Test: Measure signal-to-noise ratio of complete system at normal gain settings as follows:
 - a). Disconnect microphone at connector or jack closest to it and replace it in the circuit with a signal generator using a 1000-Hz signal. Replace all other microphones at corresponding connectors with dummy loads, each equal in impedance to microphone it replaces. Measure signal-to-noise ratio.
 - b). Repeat test for each separately controlled zone of loudspeakers.
 - c). Minimum acceptance ratio is 50 dB.
 5. Distortion Test: Measure distortion at normal gain settings and rated power. Feed signals at frequencies of 50, 200, 400, 1000, 3000, 8000, and 12,000 Hz into each preamplifier channel. For each frequency, measure distortion in the paging and all-call amplifier outputs. Maximum acceptable distortion at any frequency is 3 percent total harmonics.
 6. Acoustic Coverage Test: Feed pink noise into system using octaves centered at 500 and 4000 Hz. Use sound-level meter with octave-band filters to measure level at five locations in each zone. For spaces with seated audiences, maximum permissible variation in level is plus or minus 2 dB. In addition, the levels between locations in the same zone and between locations in adjacent zones must not vary more than plus or minus 3 dB.
 7. Power Output Test: Measure electrical power output of each power amplifier at normal gain settings of 50, 1000, and 12,000 Hz. Maximum variation in power output at these frequencies must not exceed plus or minus 1 dB.
 8. Signal Ground Test: Measure and report ground resistance at public address equipment signal ground. Comply with testing requirements specified in Division 26 Section "Grounding and Bonding for Electrical Systems."
- B. Retesting: Correct deficiencies, revising tap settings of speaker-line matching transformers where necessary to optimize volume and uniformity of sound levels, and retest. Prepare a written record of tests.
 - C. Inspection: Verify that units and controls are properly labeled and interconnecting wires and terminals are identified. Prepare a list of final tap settings of paging speaker-line matching transformers.

3.4 STARTUP SERVICE

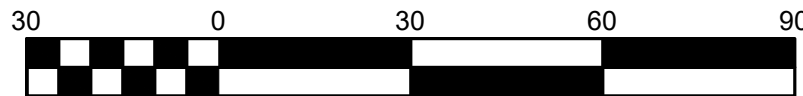
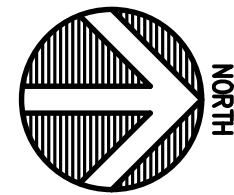
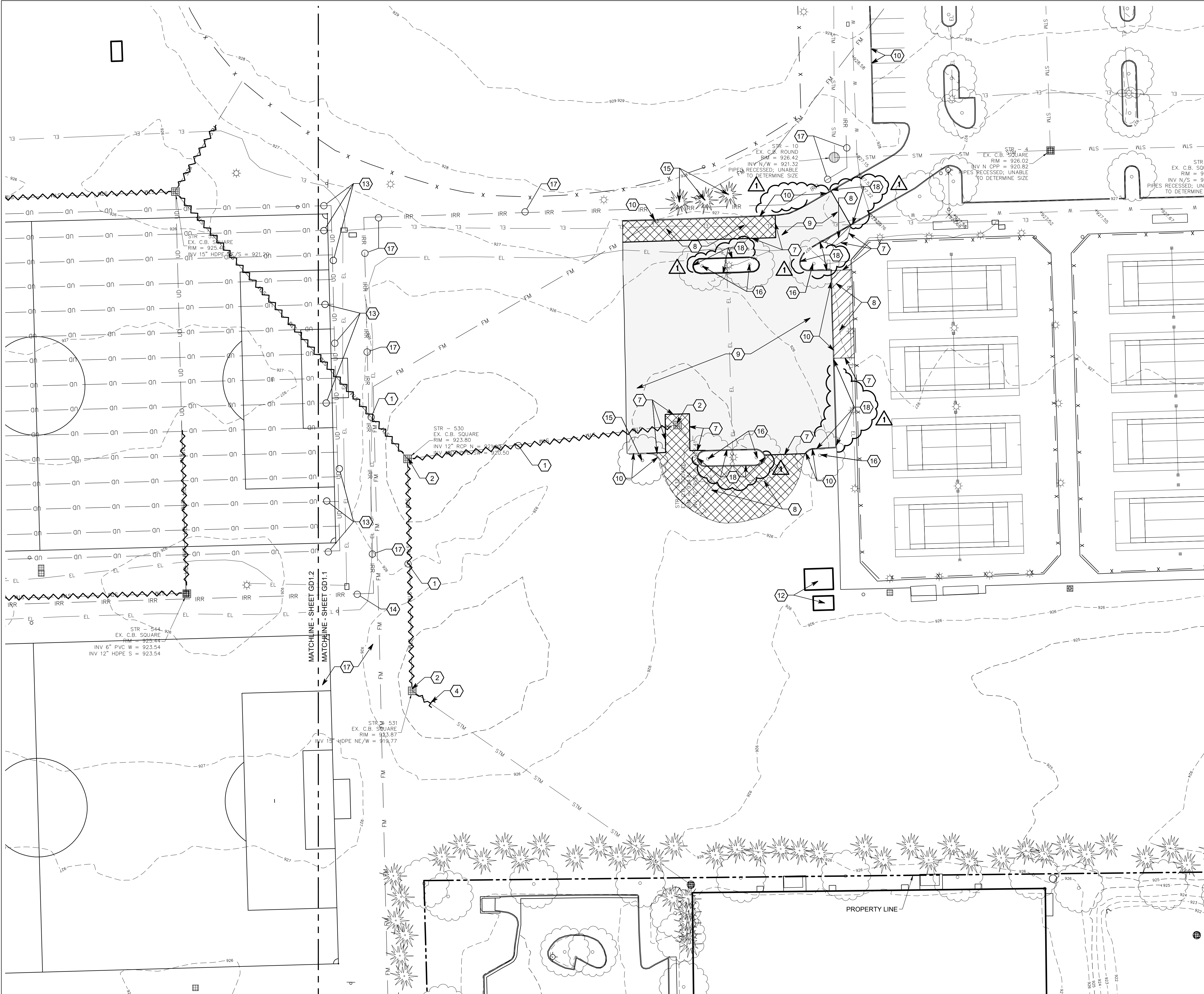
- A. Engage a factory-authorized service representative to perform startup service.
- B. Verify that electrical wiring installation complies with manufacturer's submittal and installation requirements.
- C. Complete installation and startup checks according to manufacturer's written instructions.

3.5 ADJUSTING

- A. On-Site Assistance: Engage a factory-authorized service representative to provide on-site assistance in adjusting sound levels, aiming, resetting transformer taps, and adjusting controls to meet occupancy conditions.
- B. Occupancy Adjustments: When requested within 12 months of date of Substantial Completion, provide on-site assistance in adjusting system to suit actual occupied conditions. Provide up to two visits to site outside normal occupancy hours for this purpose, without additional cost.

END OF SECTION 27 51 16

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GENERAL NOTES

- SEE DRAWING GD0.1 FOR GENERAL NOTES AND LEGEND.
- TOPOGRAPHIC CONDITIONS AND EXISTING UTILITIES SHOWN WERE PROVIDED BY DEBOY LAND DEVELOPMENT SERVICES. THE ENGINEER MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE PROJECT AREA INCLUDING UNDERGROUND UTILITY CONDITIONS. LOCATION AND DEPTH PRIOR TO ANY OTHER SITE CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER.

DEMOLITION KEYNOTES

- REMOVE EXISTING STORM SEWER LINE
- REMOVE EXISTING STORM STRUCTURE
- REMOVE EXISTING STORM LINE, COORDINATE REMOVAL LIMITS WITH PROPOSED STORM SEWER MODIFICATIONS
- CAP EXISTING PIPE
- REFER TO ELECTRICAL DRAWINGS FOR REMOVAL OF SPORTS LIGHTING
- COORDINATE CONDUIT ROUTING AND POWER FEEDS TO NEW POLES WITH ELECTRICAL SITE PLANS
- PAVEMENT SAWCUT LINES
- REMOVE EXISTING ASPHALT PAVEMENT FULL DEPTH
- MILL EXISTING SURFACE 1" IN PARKING LOT TO REMAIN
- REMOVE EXISTING CONCRETE CURB
- REMOVE EXISTING CONCRETE SIDEWALK
- RELOCATE EXISTING STORAGE STRUCTURE
- REMOVE EXISTING UNDERDRAINS
- REMOVE EXISTING IRRIGATION LINES, COORDINATE WITH IRRIGATION PLANS
- REMOVE TREE
- PROTECT EXISTING TREE TO REMAIN
- PROTECT EXISTING IRRIGATION LINES, FIELD VERIFY LOCATION & COORDINATE WITH IRRIGATION PLANS
- PROTECT EXISTING CURB TO REMAIN

DEMOLITION LEGEND

- APPROXIMATE LIMITS OF CONCRETE PAVEMENT REMOVAL
- APPROXIMATE LIMITS OF ASPHALT PAVEMENT REMOVAL
- APPROXIMATE LIMITS OF ASPHALT PAVEMENT MILLING
- APPROXIMATE LIMITS OF UTILITY LINE REMOVAL

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ZIONSVILLE COMMUNITY HIGH SCHOOL SOCCER STADIUM AND PARKING EXPANSION

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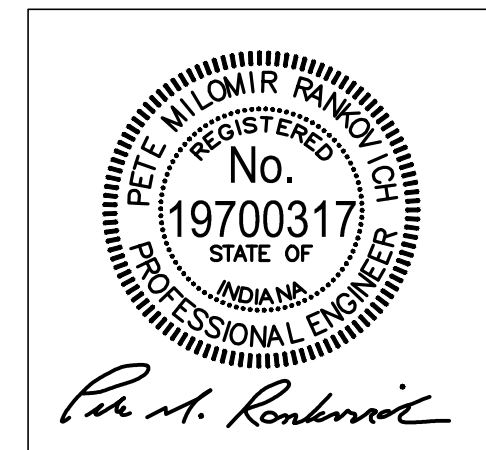
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CONSTRUCTION DOCUMENTS



DRAWN BY: HHW

PROJECT NUMBER: 221192.00

PROJECT ISSUE DATE: 06.17.2022

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 2	07/14/2022

SITE DEMOLITION PLAN

GD1.1

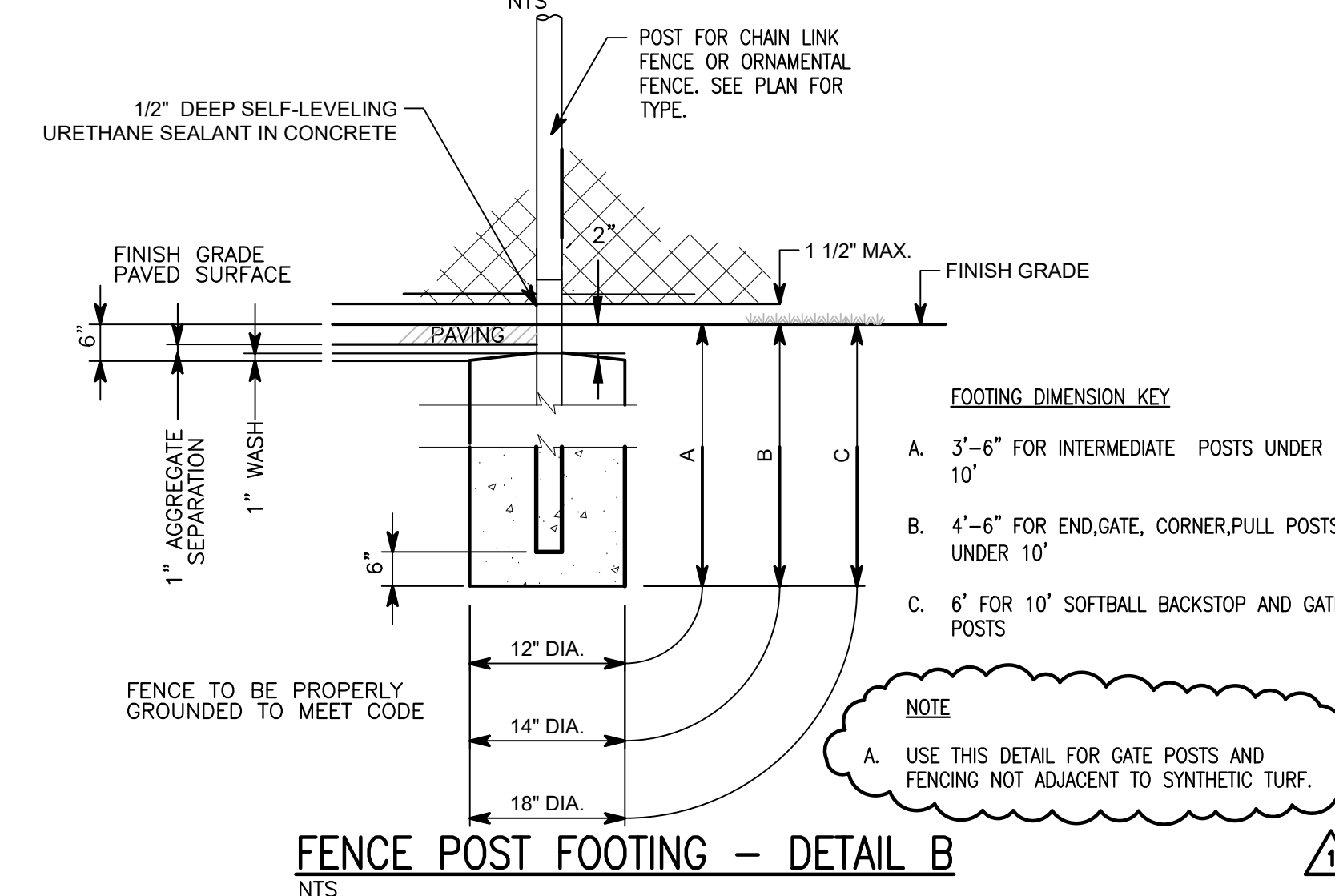


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CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.



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ZIONSVILLE COMMUNITY HIGH SCHOOL SOCCER STADIUM AND PARKING EXPANSION

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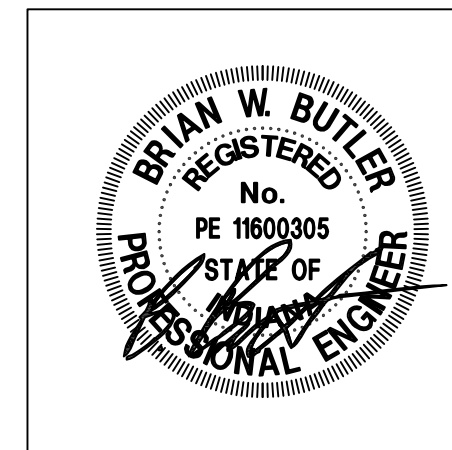


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CONSTRUCTION DOCUMENTS



DRAWN BY: ISD
PROJECT NUMBER: 221192.00
PROJECT ISSUE DATE: 06.17.2022

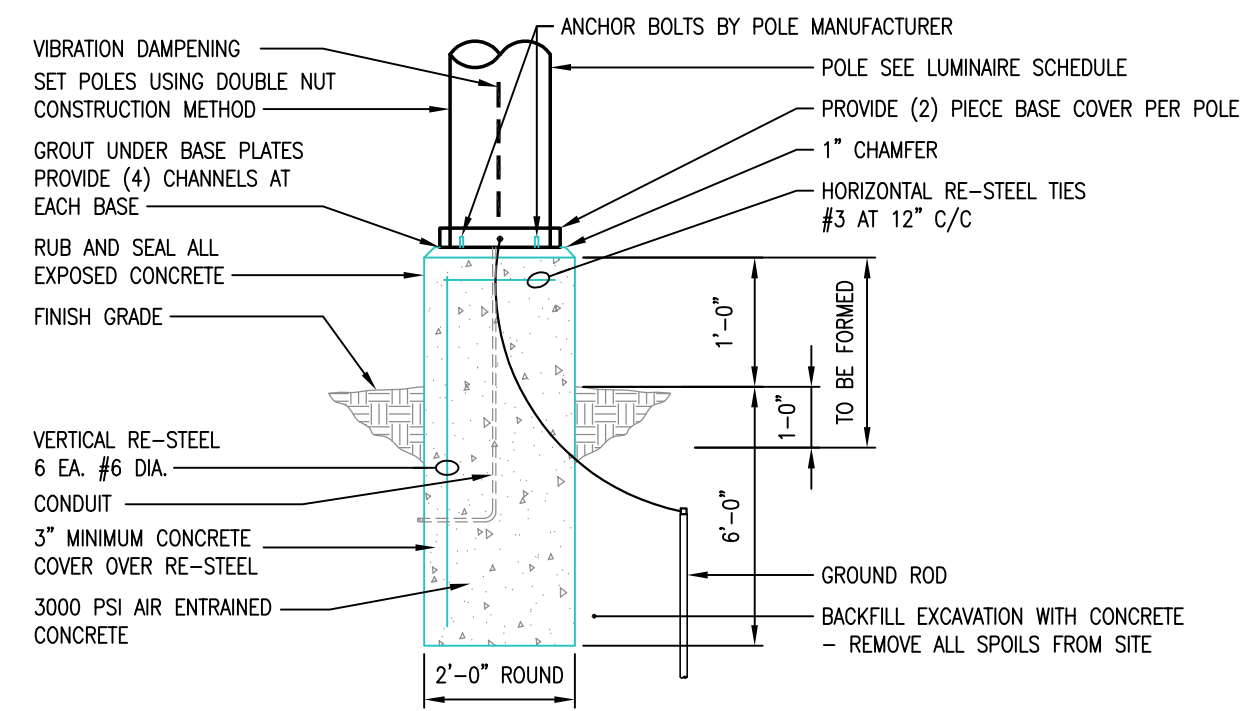
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1	ADDENDUM #2	7.14.2022

ELECTRICAL SITE PLAN

E2.01

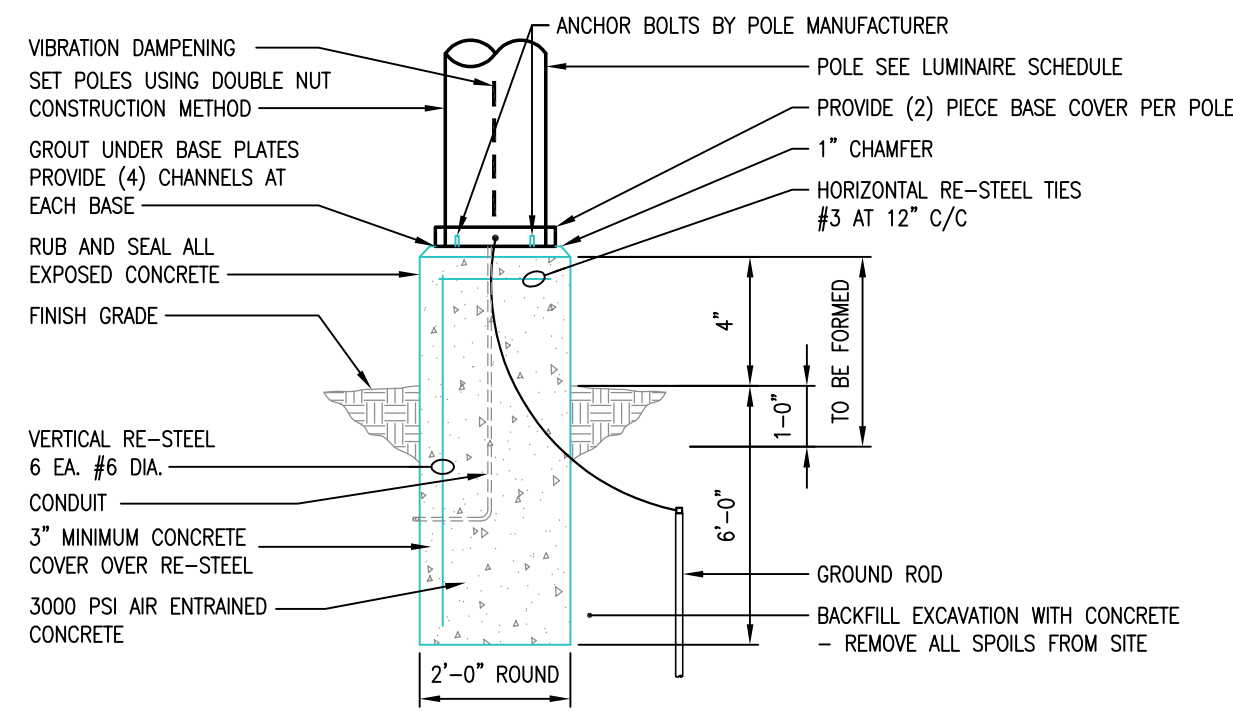
PLAN NOTES:

- (D1) REMOVE EXISTING SPORT LIGHTING POLE FROM PRECAST BASE. STORE FOR REINSTALLATION. REMOVE AND DISPOSE OF PRECAST BASE. REMOVE CONDUIT AND WIRING BACK TO POINT OF REUSE.
- (L1) PROVIDE NEW MUSCO PRECAST BASE AND AND REINSTALL EXISTING SPORTS LIGHTING POLE. PROVIDE 2" CONDUIT AND WIRING MATCHING EXISTING. SPLICE NEW CONDUCTORS TO EXISTING AT POINT OF REUSE (CONTRACTOR TO VERIFY IN FIELD). REWORK LIGHT POLE FOR NEW SPEAKERS.
- (L2) MEASUREMENT FROM CENTER POINT OF FIELD, TYPICAL.
- (P1) PROVIDE 24" X 36" FLUSH BOX FOR SITE POWER.
- (P2) PROPOSED LOCATION FOR UTILITY PROVIDED TRANSFORMER. PROVIDE FOUR CONCRETE FILLED STEEL PIPE BOLLARDS PAINTED YELLOW. LOCATE AS DIRECTED BY UTILITY.
- (P3) SECONDARY SERVICE TO BUILDING. SEE RISER DIAGRAM.
- (P4) ONE 6" PVC SCHEDULE 40 CONDUIT, 30" BELOW GRADE, FOR UTILITY PRIMARY. LOCATION OF TERMINATION OF CONDUIT TO BE DETERMINED.
- (P5) PROVIDE 2 # 8 AND # 8 G IN 1" CONDUIT (TYPICAL).
- (P6) CONNECT NEW LIGHTING TO EXISTING CIRCUIT AND CONTROLS.
- (T1) PROVIDE 18" X 24" FLUSH BOX FOR SITE COMMUNICATIONS.
- (T2) PROVIDE 24" X 36" FLUSH BOX FOR SITE COMMUNICATIONS.
- (T3) PROVIDE 24" X 24" FLUSH BOX FOR SITE COMMUNICATIONS.
- (T4) CONTRACTOR SHALL PROVIDE TWO (2) 2-INCH UNDERGROUND CONDUITS BETWEEN HANDHOLES.
- (T5) CONTRACTOR SHALL PROVIDE TWO (2) 4-INCH UNDERGROUND CONDUITS FROM HANDHOLE AND UP INTO TR-SPB-1.1 IN PRESSBOX. VERIFY EXACT LOCATION AND REQUIREMENTS WITH PRESSBOX MANUFACTURER.
- (T6) CONTRACTOR SHALL PROVIDE ONE (1) 2-INCH UNDERGROUND CONDUIT FROM HANDHOLE AND UP INTO TR-CB-1.1.
- (T7) EXISTING TELECOMMUNICATIONS HANDHOLD.



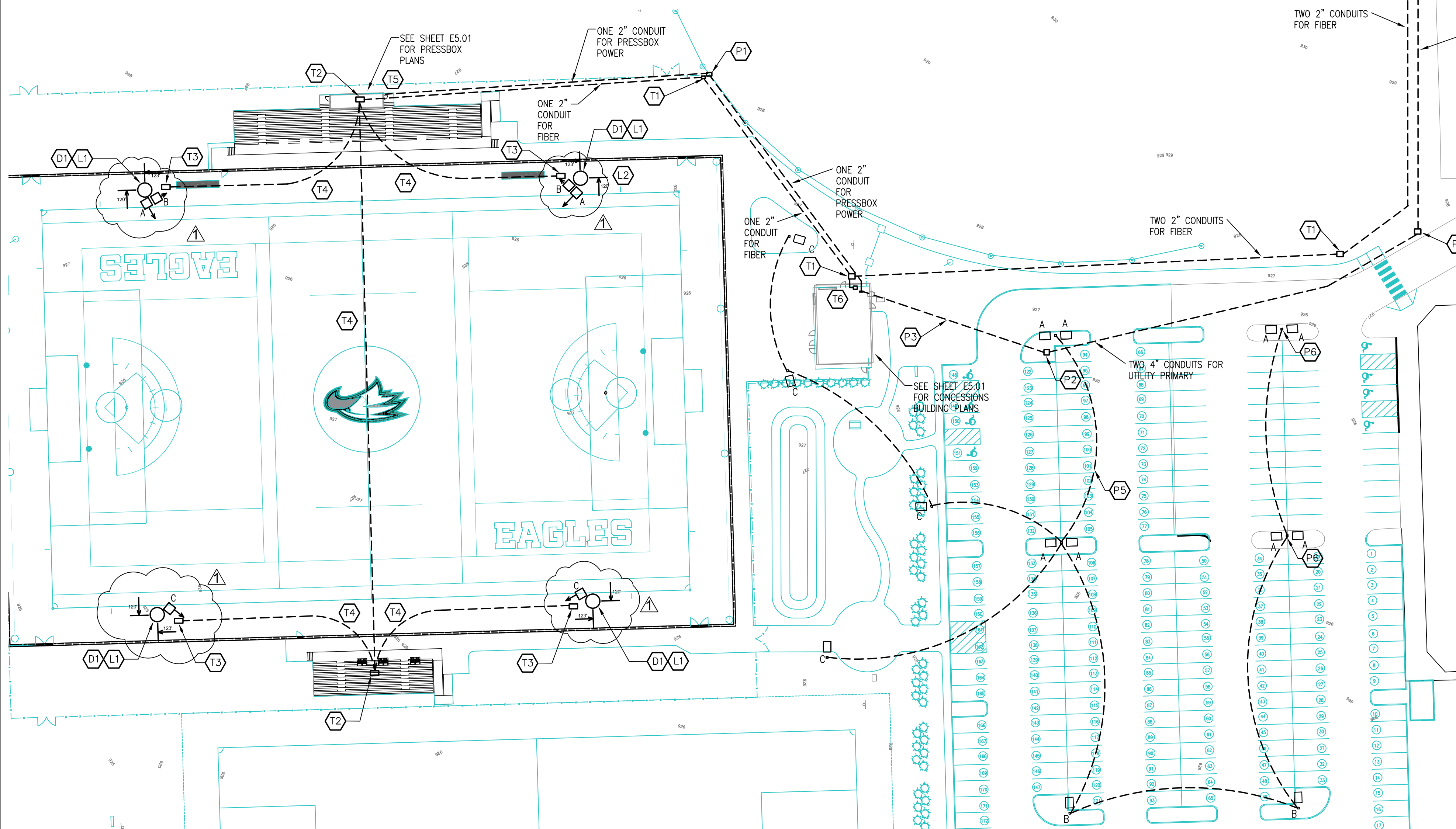
NOTE:
PROVIDE 5/8" x 8'-0" GROUND ROD AT EACH POLE (TOP AT 2'-0" BELOW GRADE) AND CONNECT TO POLE WITH 1#6 AWG SOLID CU CONDUCTOR IN 1/2" PVC CONDUIT.
TACK WELD ALL ANCHOR BOLT NUTS IN PLACE WHEN POLES ARE SET AND PLUMB. REPAIR FINISH WITH GALCON PAINT.

1 LIGHTING POLE FOUNDATION DETAIL (16'-6" TO 30'-0" LONG)
NO SCALE



NOTE:
PROVIDE 5/8" x 8'-0" GROUND ROD AT EACH POLE (TOP AT 2'-0" BELOW GRADE) AND CONNECT TO POLE WITH 1#6 AWG SOLID CU CONDUCTOR IN 1/2" PVC CONDUIT.
TACK WELD ALL ANCHOR BOLT NUTS IN PLACE WHEN POLES ARE SET AND PLUMB. REPAIR FINISH WITH GALCON PAINT.

2 LIGHTING POLE FOUNDATION DETAIL (16'-0" HIGH AND LESS)
NO SCALE

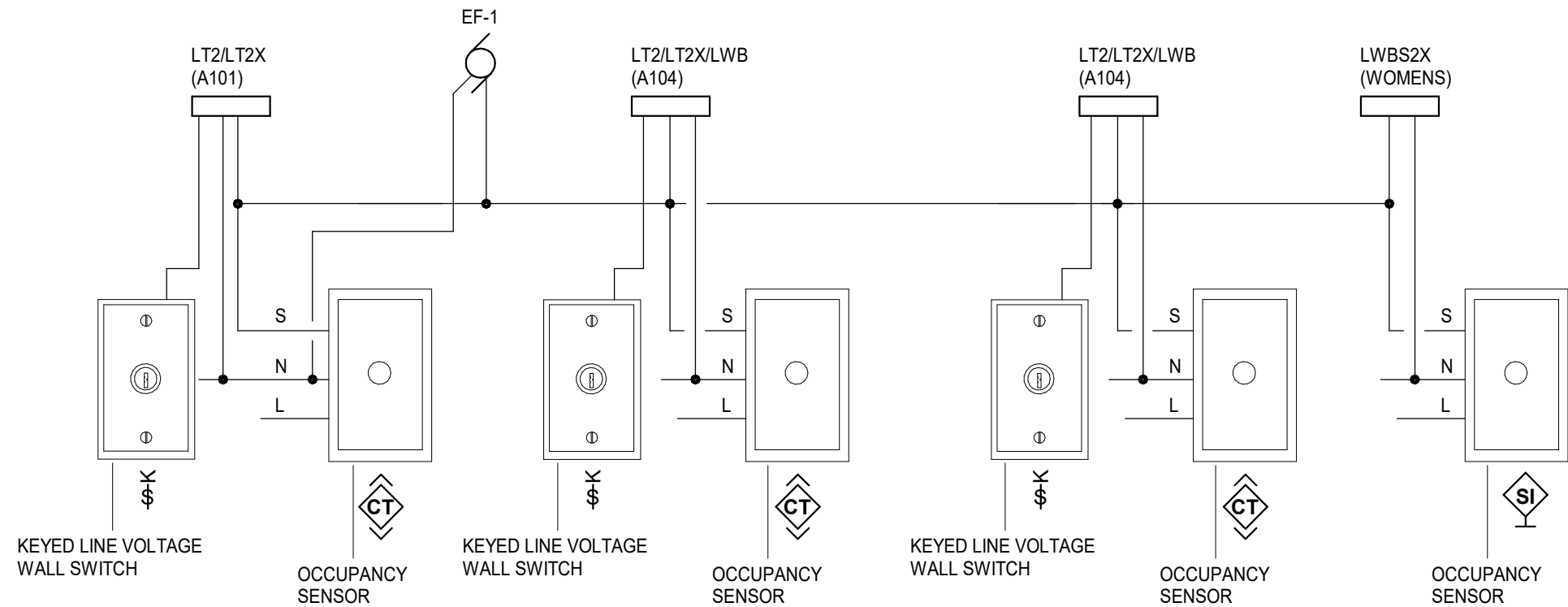


GENERAL NOTES:

- A. COORDINATE ALL UNDERGROUND OBSTRUCTIONS PRIOR TO STARTING EXCAVATION ACTIVITIES. PROVIDE PUBLIC AND PRIVATE UTILITY LOCATE SERVICES AND COORDINATE WITH OWNER. AVOID ALL UNDERGROUND OBSTRUCTIONS WHETHER IDENTIFIED OR NOT IDENTIFIED IN THESE DOCUMENTS.
- B. THE TERM "PROVIDE" INDICATES CONTRACTOR SHALL FURNISH AND INSTALL ITEMS AND CONNECT AS REQUIRED TO OBTAIN A COMPLETE AND OPERABLE SYSTEM.
- C. WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL LOCAL, STATE AND NATIONAL CODES INCLUDING, BUT NOT LIMITED TO NFPA 70 (NATIONAL ELECTRIC CODE), NFPA 72, NFPA 101, INTERNATIONAL BUILDING CODE, ETC.
- D. CONFLICTS BETWEEN THE APPLICABLE CODES, STANDARDS, AND THE PLANS AND SPECIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING PRIOR TO PROCEEDING WITH WORK.
- E. ADDITIONAL ELECTRICAL REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS SET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL PLANS AND SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF THE PROJECT REQUIREMENTS.
- F. WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. NOTIFY ARCHITECT OF DISCREPANCY IN WRITING.
- G. INITIATING WORK CONSTITUTES CONTRACTOR ACCEPTANCE OF THE EXISTING CONDITIONS ASSOCIATED WITH THE WORK IN QUESTION.
- H. CONTRACTOR SHALL CONTACT UTILITIES AND VERIFY UTILITY REQUIREMENTS PRIOR TO COMMENCING CONSTRUCTION. CONFLICTS BETWEEN UTILITY REQUIREMENTS AND THE PLANS OR SPECIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING PRIOR TO PROCEEDING WITH WORK. CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION MEETING WITH THE UTILITY COMPANY TO REVIEW REQUIREMENTS. INCOMING SERVICE CONDUITS AND SUBSTRUCTURES SHALL BE INSTALLED PER UTILITY COMPANY STANDARDS.
- I. THESE DRAWINGS AND SPECIFICATIONS DO NOT INDICATE METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND IS RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFE PRACTICES.
- J. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND CANNOT SHOW EVERY CONNECTION, JUNCTION BOX, WIRE, AND CONDUIT, ETC. THE EXACT LOCATIONS AND ARRANGEMENT OF PARTS SHALL BE DETERMINED AS THE WORK PROGRESSES. ITEMS NOT INDICATED ON DRAWINGS REASONABLY INFERRED TO BELONG TO THE WORK DESCRIBED SHALL BE FURNISHED AND INSTALLED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- K. WORK SHALL BE COORDINATED WITH EXISTING CONDITIONS, NEW CONSTRUCTION, OWNER'S VENDORS, OTHER TRADES, AND THEIR DOCUMENTS. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING HIS BID. CONTRACTOR SHALL CONTACT OWNER FOR AN APPOINTMENT TO VISIT THE SITE.
- L. AN INSULATED GROUND CONDUCTOR SIZED PER NEC SHALL BE PROVIDED WITH EACH FEEDER AND BRANCH CIRCUIT.
- M. PROVIDE A DEDICATED NEUTRAL FOR EACH LINE TO NEUTRAL CIRCUIT. MULTI-WIRE BRANCH CIRCUITS ARE NOT PERMITTED UNLESS SPECIFICALLY INDICATED ON PLANS.
- N. MINIMUM WIRE SIZE IS #10 AWG. SEE SPECIFICATIONS FOR MINIMUM CONDUIT SIZE.
- O. ELECTRICAL PANELS INCLUDING BUT NOT LIMITED TO LIGHTING CONTROL PANELS, POWER DISTRIBUTION WILL HAVE A MAX DEVICE HEIGHT OF 72" AFF.
- P. PROVIDE GROUNDING TYPE EXPANSION FITTINGS OR OTHER APPROVED METHODS TO ALLOW FOR EXPANSION, CONTRACTION, AND DEFLECTION.
- Q. STEEL: DO NOT CUT OR CORE THROUGH ANY STRUCTURAL STEEL BEAMS, GIRDERS, OR COLUMNS UNLESS NOTED OTHERWISE ON PLAN. NOTIFY ENGINEER OF POTENTIAL CONFLICTS BETWEEN FRAMING AND ELECTRICAL WORK.
- R. PROVIDE PHOTOMETRIC STUDY WITH SUBMITTALS FOR EXTERIOR LIGHTING FIXTURES.

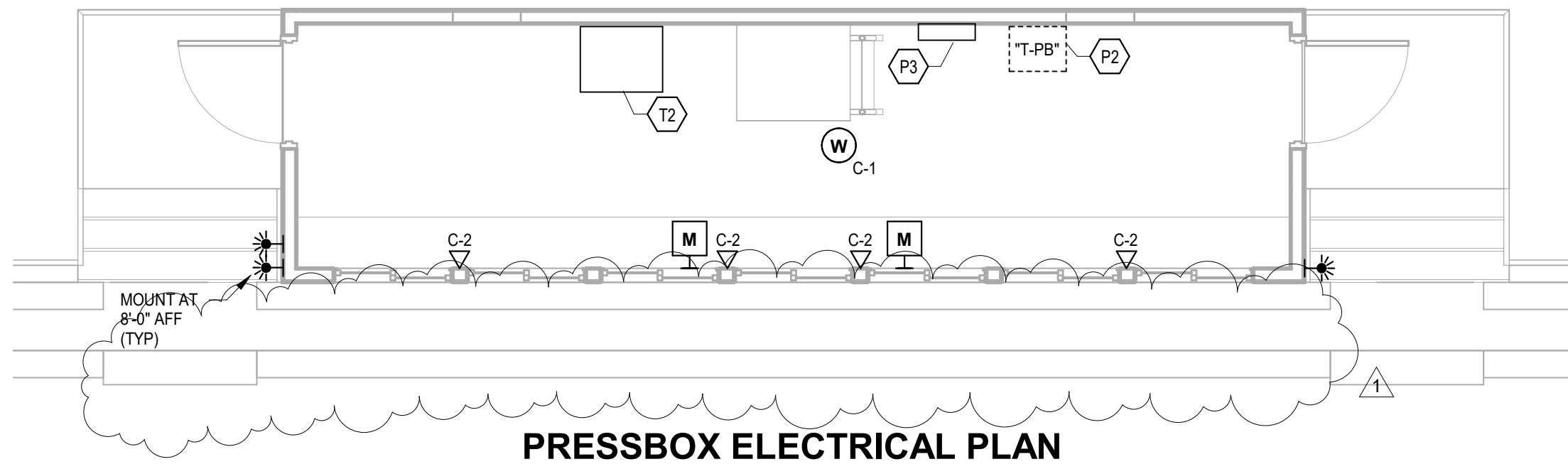
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1. SYSTEM SHALL BE SET UP SUCH THAT LIGHTING IS SWITCHED ON BY OCCUPANCY SENSOR AND SWITCHED OFF AFTER 15 MINUTES OF VACANCY.
2. SWITCHES SHALL OVERRIDE FIXTURES ON/OFF.
3. EMERGENCY FIXTURES SHALL OPERATE AS DESCRIBED ABOVE DURING NORMAL OPERATIONS. IN EMERGENCY SCENARIO, FIXTURES WILL COME ON AT 100% OUTPUT WITH BATTERY UNIT.



4
N.T.S.

LIGHTING CONTROLS



PRESSBOX ELECTRICAL PLAN

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

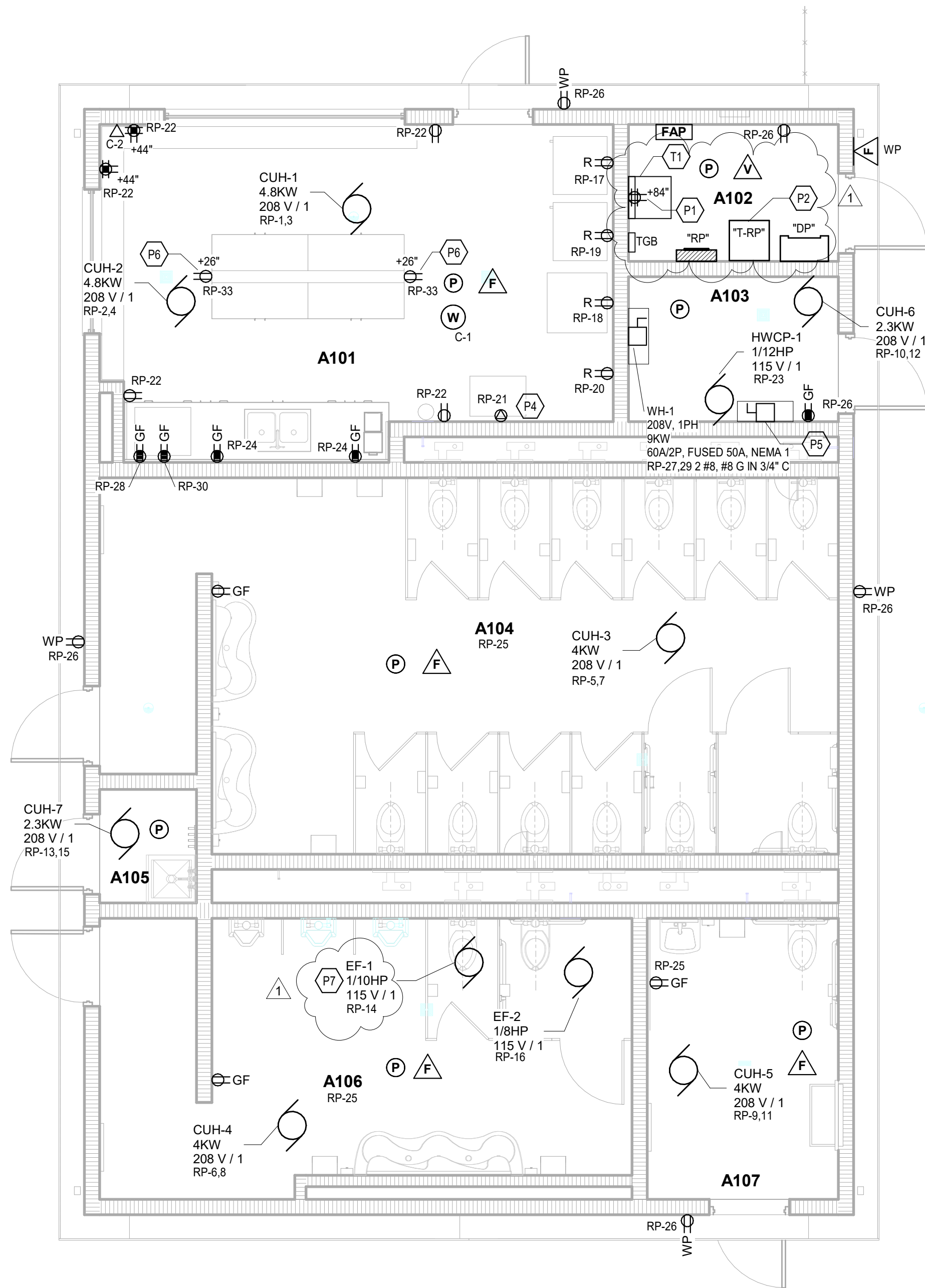
PRESSBOX GENERAL NOTES:

1. LIGHTING, SWITCHES, EXIT SIGNS, EXTERIOR BUILDING MOUNTED LIGHTING, PANELBOARD, RECEPTACLES, SURFACE RACEWAY, COMMUNICATIONS PANEL AND DATA CONDUITS AND OTHER MISCELLANEOUS INSTALLED ITEMS WILL BE SUPPLIED AS PART OF PRESSBOX. THIS CONTRACTOR SHALL COORDINATE AND PROVIDE ADDITIONAL WORK AS SHOWN ON THIS PLAN AND IN THE SPECIFICATIONS FOR COMPLETE WORKING SYSTEMS

ROOM LEGEND - FIRST FLOOR UNIT A		
ROOM NO.	ROOM NAME	AREA (SF)
A101	CONCESSIONS	281 SF
A102	ELECTRICAL / TECHNOLOGY	50 SF
A103	PLUMBING	53 SF
A104	WOMENS RESTROOM	461 SF
A105	CUSTODIAL	19 SF
A106	MENS RESTROOM	240 SF
A107	FAMILY RESTROOM	93 SF

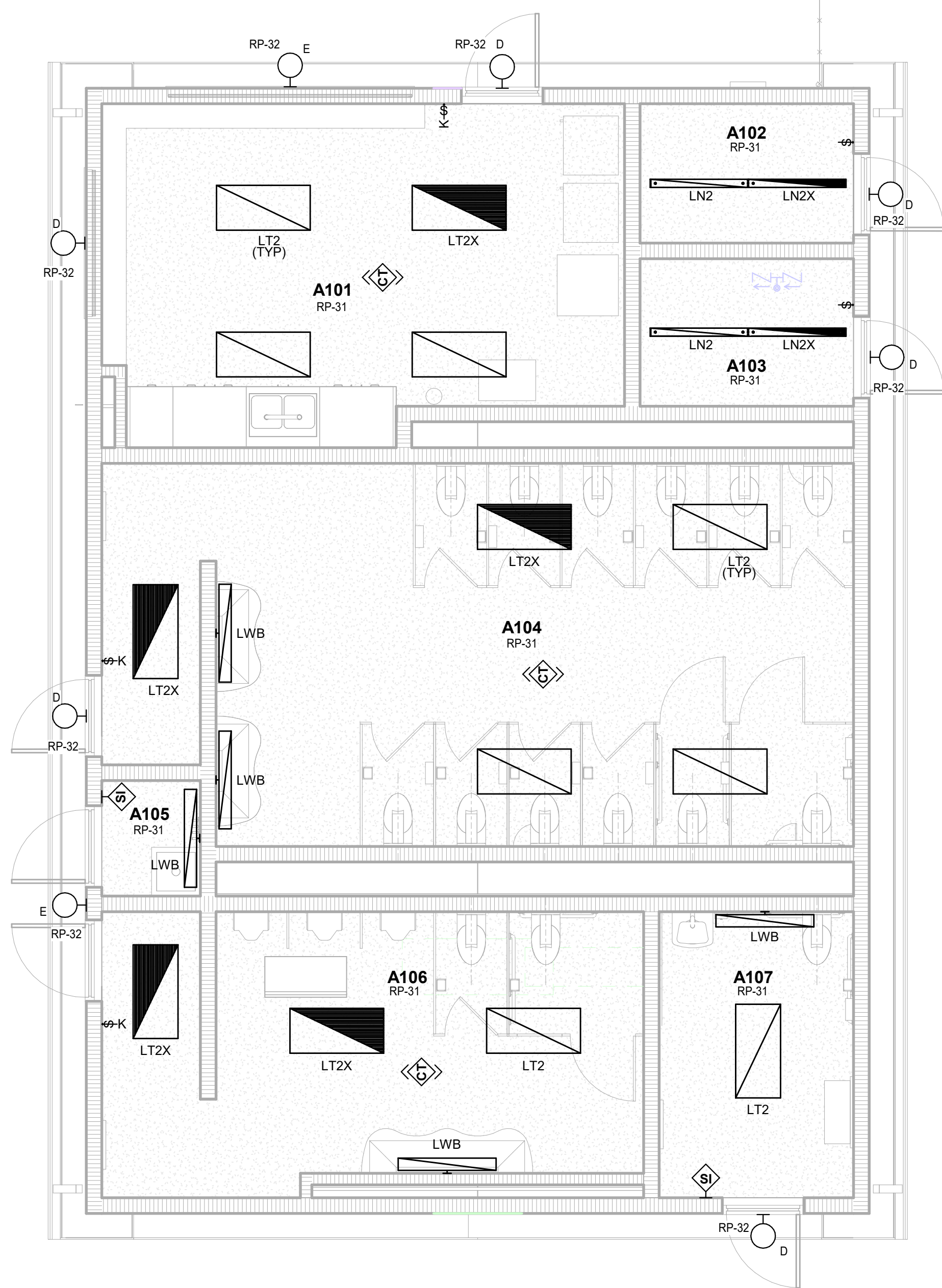
KEYNOTES

- P1 PROVIDE RECEPTACLE DIRECTLY ABOVE TECH CABINET
- P2 SUPPORT TRANSFORMER FROM UNDERSIDE OF STRUCTURE WITH BEAM CLAMPS, FOUR PIECES OF THEADED ROD AND GALVANIZED STRUT SIZED AS REQUIRED FOR TRANSFORMER. PROVIDE MINIMAL FLEXIBLE CONDUIT FOR DRIP LOOP AND ROUTE CONDUIT AS REQUIRED TO PRESSBOX PANEL
- P3 PRESSBOX PANELBOARD, 208/120V, 100A, THREE PHASE, FOUR WIRE, PROVIDED AS PART OF PRESSBOX EQUIPMENT. MAKE FINAL CONNECTIONS AS REQUIRED.
- P4 PROVIDE 30A, 120V RECEPTACLE MATCHING OWNER PROVIDED EQUIPMENT.
- P5 PROVIDE 120V, 30A, NEMA 1 DISCONNECT AND CONNECT TO HOT WATER RETURN PUMP.
- P6 PROVIDE RECEPTACLE MOUNTED TO SIDE OF WORKSTATION. ROUTE WIRING AND CONDUIT THROUGH CHASE BETWEEN CABINETS BACK TO PANEL RP-1.
- P7 SEE DETAIL 4 THIS SHEET FOR CONTROL OF EXHAUST FAN EF-1.
- T1 PROVIDE TR-CB-1/1, WALL MOUNTED SWING CABINET ON WALL
- T2 PROVIDE TR-SPB-1/1 LOCKABLE FULL HEIGHT EQUIPMENT CABINET WITH GLASS DOOR AND SIDE AND BACK ENCLOSURE PANELS. WITH OPENINGS IN BACK FOR CABLING TO PASS INTO COMMUNICATIONS PANEL BOX. CABINET TO INCLUDE SPACE FOR FIBER ENCLOSURE, OWNER PROVIDE SWITCH, ONE 48 PORT CATEGORY 6A PATCH PANEL, AND AUDIO EQUIPMENT.



FIRST FLOOR POWER AND SYSTEMS PLAN

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



FIRST FLOOR LIGHTING PLAN

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

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ZIONSVILLE COMMUNITY HIGH SCHOOL SOCCER STADIUM AND PARKING EXPANSION

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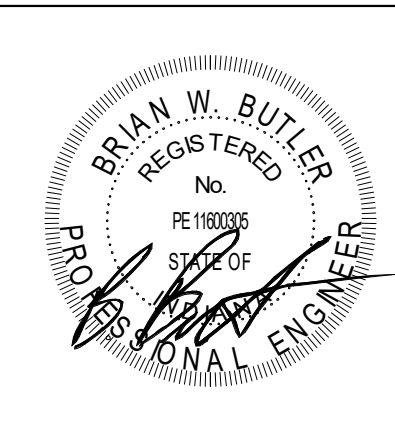


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DRAWN BY: ISD

PROJECT NUMBER: 221192.00

PROJECT ISSUE DATE: 06.17.2022

REV. NO.	DESCRIPTION	DATE
1	Addendum #2	7.14.2022

FIRST FLOOR AND PRESSBOX
ELECTRICAL PLANS

E5.01

ZIONSVILLE COMMUNITY HIGH SCHOOL SOCCER STADIUM AND PARKING EXPANSION

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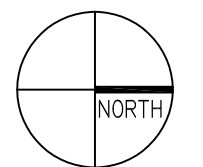
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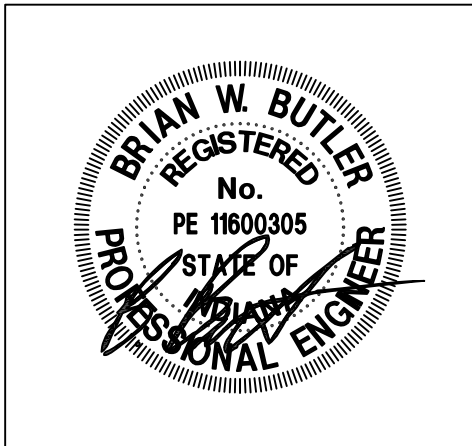
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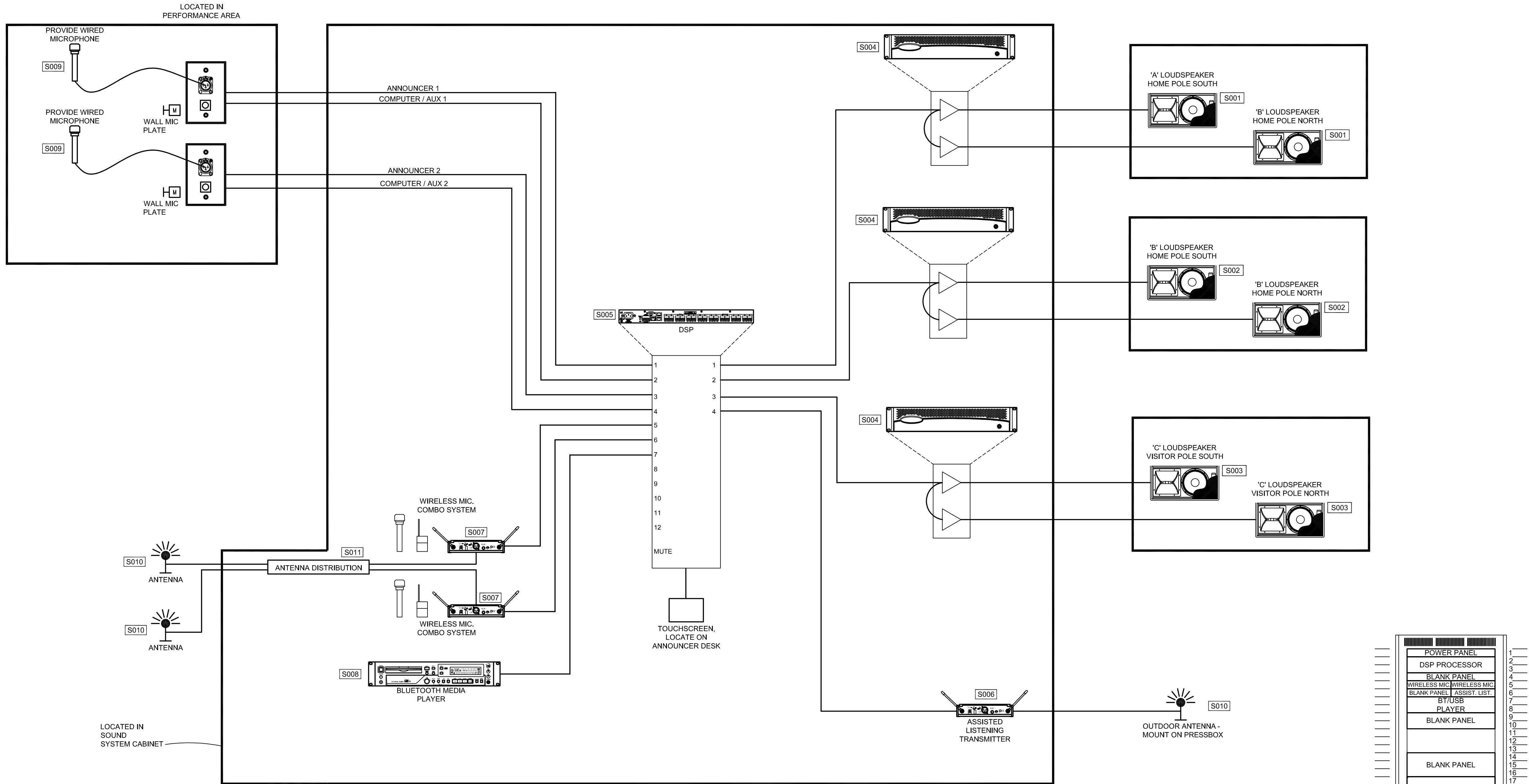


DRAWN BY: ISD
PROJECT NUMBER: 221192.00
PROJECT ISSUE DATE: 06.17.2022

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #2	7.14.2022

SOUND SYSTEM DETAILS

E8.02



PERFORMANCE AND COMMONS SOUND SYSTEM EQUIPMENT SCHEDULE			
SYMBOL	DESCRIPTION	BASIS OF DESIGN *	NOTES
S001	'A' LOUDSPEAKER	COMMUNITY R.5-99Z	POLE MOUNT AT 30'
S002	'B' LOUDSPEAKER	COMMUNITY R.5-66Z	POLE MOUNT AT 30'
S003	'C' LOUDSPEAKER	COMMUNITY R.5-94Z	POLE MOUNT AT 30' - DELAY
S004	POWER AMPLIFIER	QSC CX-Q 4K8 OR APPROVED EQUAL	-
S005	DIGITAL SIGNAL PROCESSOR	QSC CORE 8 FLEX PLUS Q10-ML41 PLUS Q10-L40 OR APPROVED EQUAL	-
S006	ASSISTED LISTENING SYSTEM	LISTEN TECHNOLOGIES OR APPROVED EQUAL	PROVIDE RECEIVERS PER CODE
S007	WIRELESS MICROPHONE SYSTEM	SHURE QLXD 124/85	-
S008	BT/USB/AUX PLAYER	DENON DN350-MP	-
S009	WIRED MICROPHONE	SHURE SM58S SERIES OR APPROVED EQUAL	-
S010	OUTDOOR ANTENNA	WINEGARD ELITE 7550	MOUNTED ON PRESSBOX
S011	ANTENNA DISTRIBUTION	SHURE UA844+	-

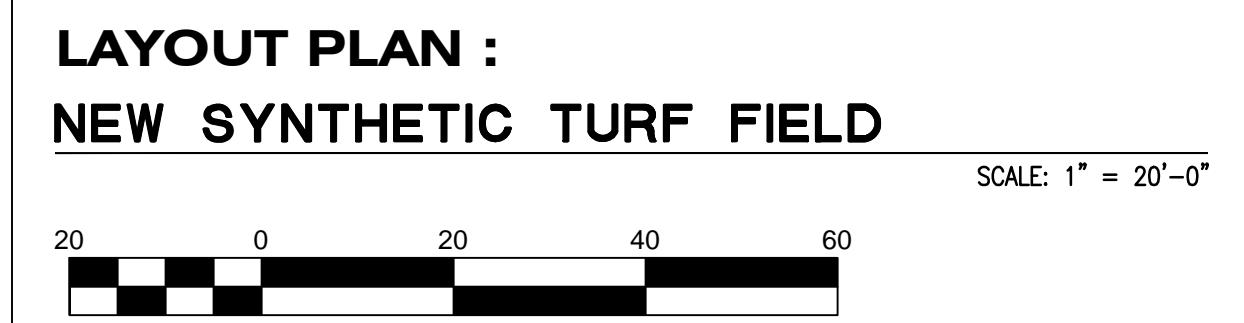
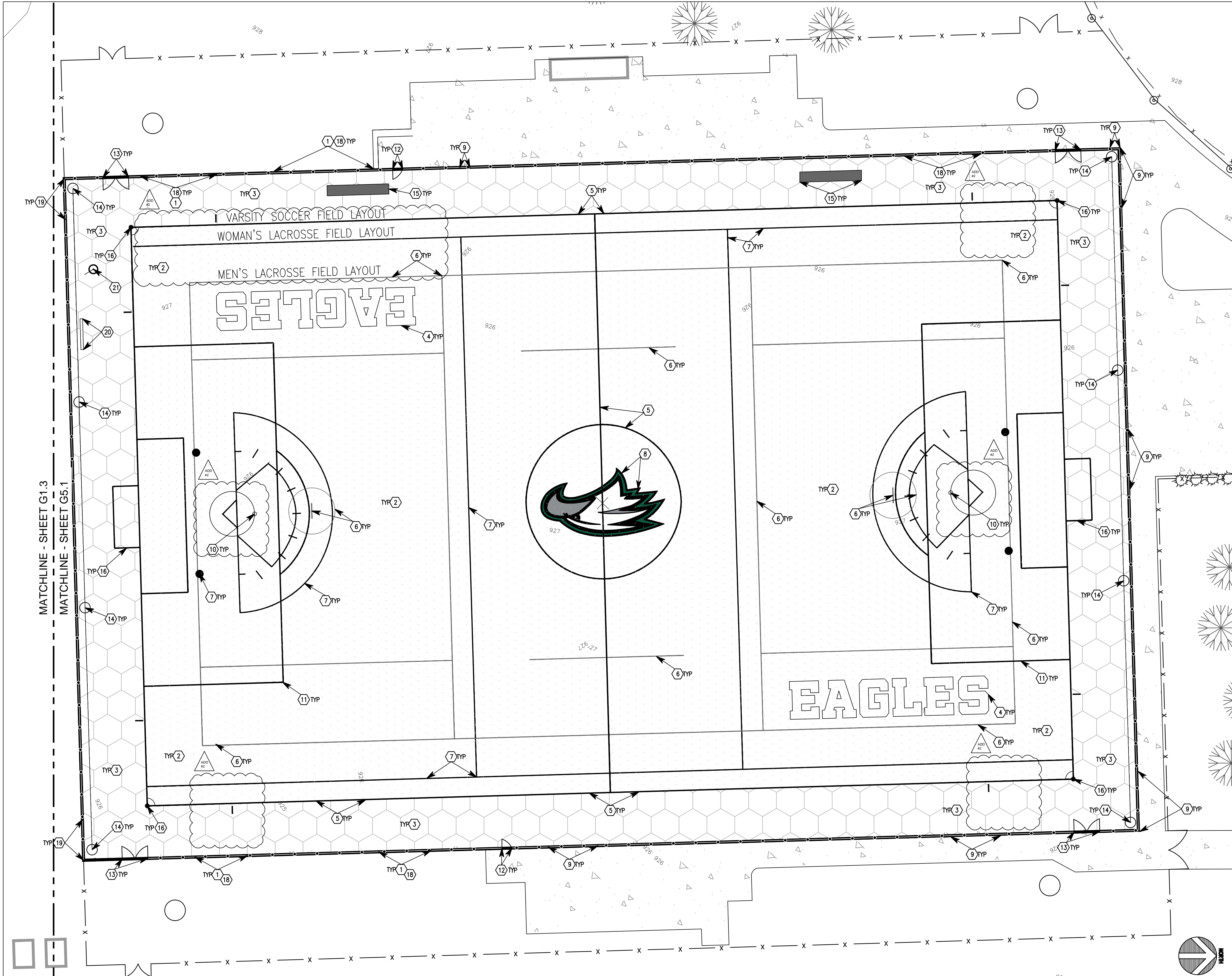
PROVIDE ALL MISCELLANEOUS ITEMS AS REQUIRED FOR A FULLY OPERATIONAL SYSTEM. PROVIDE SPEAKER WIRING TO MINIMIZE CABLE LOSSES. PROVIDE EASE CALCULATIONS FOR REVIEW DURING SUBMITTAL PHASE. PROVIDE MOUNTING AND AIMING POINTS FOR SPEAKERS FOR UNIFORMITY AND TO MINIMIZE ANY OBJECTIONABLE DELAYS. SET AIMING AND DELAY TIMING FOR ALL SPEAKERS IN PRESENCE OF OWNER'S REPRESENTATIVE.

- PROVIDE THE FOLLOWING MISCELLANEOUS EQUIPMENT:
- THREE (3) 50' MICROPHONE CABLES
 - THREE (3) 25' MICROPHONE CABLES
 - TWO (2) ADJUSTABLE MICROPHONE STANDS
- SOUND SYSTEM GENERAL NOTES**
- COORDINATE COLORS OF SPEAKERS WITH ARCHITECT PRIOR TO ORDERING.
 - PROVIDE THE MINIMUM NUMBER OF ASSISTIVE LISTENING DEVICES AND NECK LOOPS REQUIRED PER CODE.

1 SOCCER STADIUM SOUND SYSTEM DETAIL
NO SCALE

CABINET ELEVATION

NEW SHEET ADDED IN ADDENDUM



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CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

- PROPOSED SITE LEGEND**
- 12" x 18" CONCRETE CURB
SEE PLAN NOTES FOR FURTHER CLARIFICATION
 - TEAM SHELTERS
 - CONCRETE SIDEWALK/PAVEMENT
 - OUT OF BOUNDS / TEAM AREAS
 - FIELD OF PLAY/ALTERNATE SHOCK PAD

- PLAN NOTES**
- NEW SYNTHETIC TURF - AT CURB AND FENCING , SEE SITE DETAILS
 - (WITHIN DOTTED HATCH) INSTALL STANDARD MEDIUM GREEN SYNTHETIC TURF WITH 1 3/4" PILE HEIGHT (IF SHOCKPAD IS SELECTED) OF SAND/EPDM RUBBER (GREEN) INFILL MATERIAL MIX IN DARK SHADED GREEN AREAS AS NOTED ON SHT G5.3 GRAPHIC PLAN - OVER 4 1/2" MIN. FREE DRAINING AGGREGATE BASE. SEE SITE DETAILS FOR TURF SYSTEM, INFILL DEPTHS, AND CIVIL DRAWINGS FOR SUB-DRAINAGE SYSTEM. ALTERNATE (DOTTED HATCH) : IF ACCEPTED - INSTALL "PRO PLAY SPORT 20" BY SCHMITZ FOAM (BASIS OF DESIGN) LAYER BENEATH TURF AND INFILL SYSTEM PER MANUFACTURERS WRITTEN RECOMMENDATIONS
 - (HONEYCOMB HATCHED AREAS) OUT OF BOUNDS / TEAM AREAS: INSTALL LIGHT GREEN SYNTHETIC TURF WITH 2" PILE HEIGHT OF SAND/EPDM RUBBER OF SAND/EPDM RUBBER (GREEN) INFILL MATERIAL MIX IN LIGHT GREEN AREAS AS NOTED ON SHT G5.03 GRAPHIC PLAN - OVER 4 1/2" MIN. FREE DRAINING AGGREGATE BASE. SEE DETAIL. SITE DETAILS FOR TURF SYSTEM, INFILL DEPTHS, AND CIVIL DRAWINGS FOR SUB-DRAINAGE SYSTEM
 - 'EAGLES' LOGO: (WHITE) TUFTED SYNTHETIC TURF LETTERING WITH 3" BLACK OUTLINE - IN COLOR AS SELECTED BY OWNER PRIOR TO CONSTRUCTION, SEE SHT'S 5.2, 5.3
 - SOCCER LAYOUT : 4" WIDE (WHITE) TUFTED SYNTHETIC TURF FOR ALL LINE WORK - PROVIDE SYNTHETIC TURF MARKINGS AND LAYOUT PER NFHS GUIDELINES, SEE SHT G5.3 FOR GRAPHIC PLAN
 - MEN'S LACROSSE LAYOUT: 4" WIDE (GRAY) SYNTHETIC TURF OUTLINE , SEE SHT G5.4 FOR STANDARD MEN'S FIELD LAYOUT DIAGRAM - MEET/PROVIDE ALL REGULATION REQUIREMENTS ESTABLISHED BY NFHS AND USAL, SEE SHT G5.3 FOR GRAPHIC PLAN
 - WOMAN'S LACROSSE LAYOUT: 4" WIDE (YELLOW) SYNTHETIC TURF OUTLINE, SEE SHT G5.4 FOR STANDARD WOMAN'S LAYOUT DIAGRAM - MEET/PROVIDE ALL REGULATION REQUIREMENTS ESTABLISHED BY NFHS AND USAL, SEE SHT G5.3 FOR GRAPHIC PLAN
 - 'EAGLES' HEAD LOGO: ZIONSVILLE HIGH SCHOOL (GREEN) TO MATCH SCHOOL BRANDING, GRAY, BLACK AND WHITE - SEE DETAIL #1 SHT G5.3. FOR FURTHER INFORMATION, OWNER IS TO HAVE FINAL COLOR SELECTIONS PRIOR TO THE START OF CONSTRUCTION
 - PERIMETER 4" FENCING @ P.V.M.T./CURB/TURF: NEW 4" CHAIN LINK FENCING - SLEEVED POST - WITH YELLOW CORRUGATED FENCING CAP SET WITHIN PERIMETER CONCRETE CURBING/P.V.M.T., SEE SITE DETAILS
 - VARSITY SOCCER PENALTY MARK/CIRCLE - 9" CIRCLE - 4" WIDE (WHITE) TUFTED IN SYNTHETIC TURF, SEE SHT G5.3 FOR GRAPHIC
 - VARSITY SOCCER PENALTY BOX - 4" WIDE (WHITE) SYNTHETIC TURF OUTLINE , SEE SHT G5.3 FOR GRAPHIC
 - SINGLE WIDE FENCE GATE (2) - SEE SITE DETAILS
 - DOUBLE WIDE FENCE GATE (3) - SEE SITE DETAILS
 - STRAIGHT POLE TO POLE TENSION NET SYSTEM : (8 POLES+/-) @ 40' H X 80'+/- SPACING (SEE G5.1) : TNPPSG - CUSTOM POLE TO POLE TENSION NETTING SYSTEM AS MANUF. BY SPORTSFIELD SPECIALTIES 312-933-9680, SYSTEM INCLUDES POWDER COATED BLACK STEEL POLES (10'+/-) WITH WELDED TABS, CABLING, HARDWARE PER DRAWINGS AND SPECIFICATIONS AND BLACK #36 NYLON NETTING WITH 1-3/4" SQUARE MESH AND ROPE BOUND PERIMETER - INSTALL PER MANUF. RECOMMENDATIONS. TENSION NETTING SYSTEM FOUNDATIONS ARE TO BE CONSTRUCTED PER MANUF. RECOMMENDATIONS
 - BASE BID - (2) 21'-0" LONG PORTABLE BENCH WITH BACKREST - ALUMINUM. ALTERNATE BID - TEAM SHELTERS (2) - 4'W x 24' x 7'H - AS MANUF. BY SPORTSFIELD SPECIALTIES 312-933-9680, SYSTEM (BASIS OF DESIGN) - PROVIDE OPTIONAL MOBILITY KIT , AND PROVIDE OPTIONAL BRANDING ON BACK SIDE OF SHELTERS - BRANDING IS TO MATCH ZIONSVILLE HIGH SCHOOL'S BRANDING GUIDLINES , OWNER TO HAVE FINAL BRANDING SELECTION PRIOR TO CONSTRUCTION
 - SOCCER SPORTING EQUIPMENT : (2) ALUMINUM ROUND FACED SOCCER GOAL, REGULATION SIZE - 8'H x 24'W, POWDER COATED (WHITE), INCLUDE REAR GROUND BAR, HARDWARE KIT AND 5MM BRAIDED, KNOTLESS POLYPROPYLENE (WHITE) NET WITH ROPE BOUND PERIMETER AND 4" SQUARE MESH APPROVED BY NFHS - PRODUCT NUMBER SG682R, AND (2) STAND ALONE SOCCER GOAL SAFETY SYSTEM INSTALLED IN A SYNTHETIC INFILL TURF APPLICATION, WHICH INCLUDES INTERNAL SOCCER GOAL REAR GROUND BAR CLAMPING MECHANISM WITH ATTACHMENT HARDWARE, ACCESS FRAME KIT WITH INFILL RETAINER SYSTEM, ALUMINUM CONSTRUCTION WITH GASKET SEAL, SYNTHETIC INFILL TURF ATTACHMENT LEDGE AND ONE (1) FULL SIZE BLANK FILLER PLUG TO BE FILL COVERED BY SYNTHETIC INFILL TURF CONTRACTOR - AS MANUF. BY SPORTSFIELD SPECIALTIES 312-933-9680 (BASIS OF DESIGN). SET OF (4) KVIKGOAL PREMIER SOCCER CORNER FLAGS WITH HIGH IMPACT (WHITE) PVC UPRIGHTS RED NYLON FLAGS WITH (WHITE) CLOTH EDGES AND 12" DIAMETER, STACKABLE UV RESISTANT (BLACK) WEIGHTED RUBBER BASES - PRODUCT NUMBER (SG6B1404) AS MANUF. BY SPORTSFIELD SPECIALTIES (BASIS OF DESIGN)
 - MEN'S AND WOMAN'S LACROSSE SPORTING EQUIPMENT: (2) LACROSSE GOAL, OFFICIAL SIZE 6'H x 6'W x 7'L, STEEL CONSTRUCTION, NET ATTACHMENT TIE-BARS (UPRIGHTS, CROSSBAR AND GROUND BARS), INCLUDE 5MM BRAIDED, KNOTLESS (WHITE) HIGH TENACITY POLYPROPYLENE (HTPP) NET WITH A ROPE BOUND PERIMETER FOR EASY HANGING AND 1-3/4" SQUARE MESH, (WHITE) LACING TWINE AND HARDWARE KIT, POWDER COATED ORANGE - PRODUCT NUMBER LCG, AND PRODUCT NUMBER LCGWK - LACROSSE GOAL EXTERNAL PORTABLE MOBILITY WHEEL KIT AS MANUF. BY SPORTSFIELD SPECIALTIES 312-933-9680 (BASIS OF DESIGN) - ITEMS ARE NOT ILLUSTRATED WITHIN PLAN
 - SYNTHETIC TURF - AT CURB AND FENCING: NEW 4" CHAIN LINK FENCING - SLEEVED POST - WITH YELLOW CORRUGATED FENCING CAP SET WITHIN 12" x 18" PERIMETER CONCRETE CURBING, SEE SITE DETAILS
 - SYNTHETIC TURF - AT CURB AND FENCING: NEW 8" CHAIN LINK FENCING - SLEEVED POST - SET WITHIN 12" x 18" PERIMETER CONCRETE CURBING, DO NOT PROVIDE FENCE CAP - SEE SITE DETAILS
 - NEW SCOREBOARD - SEE STRUCTURAL DRAWINGS FOR FURTHER INFORMATION
 - FLAGPOLE (1)- POSTAL PRODUCTS UNLIMITED, INC (BASIS OF DESIGN) SEE SITE DETAILS

- GENERAL NOTES**
- SEE DRAWING GD0.1 FOR GENERAL NOTES.
 - CONTRACTOR SHALL VERIFY ALL EXISTING AND CONDITIONS, AND PROPOSED SITE CONDITIONS IN THE PROJECT AREA INCLUDING UNDERGROUND UTILITY CONDITIONS, LOCATION AND DEPTH PRIOR TO ANY OTHER SITE CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER.

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ZIONSVILLE COMMUNITY HIGH SCHOOL SOCCER STADIUM AND PARKING EXPANSION

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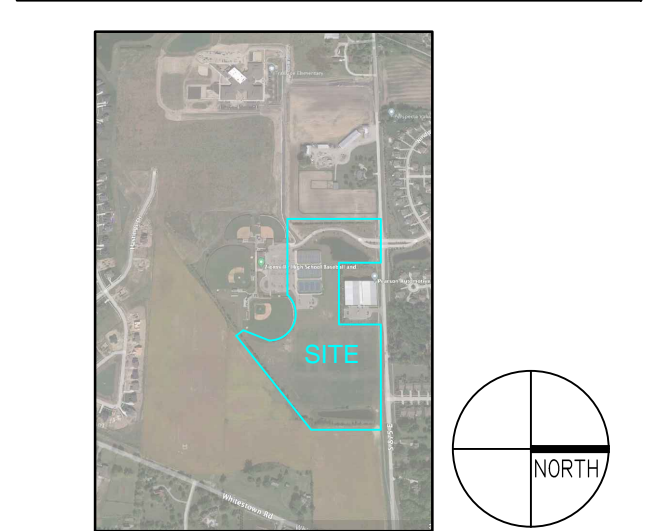
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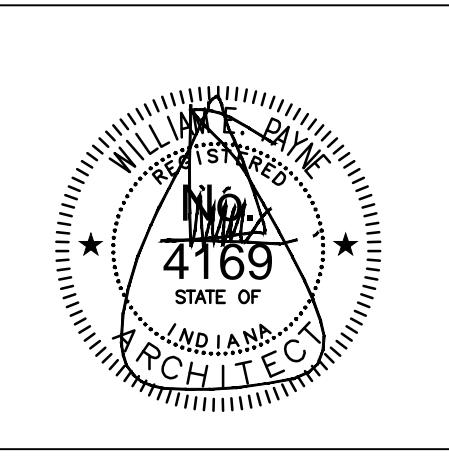
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PROJECT ISSUE DATE: 06.17.2022

REV. NO.	DESCRIPTION	DATE
ADD#2	ADDENDUM 2	07/14/22

LAYOUT PLAN:
NEW SYNTHETIC TURF FIELD

G5.1