

ADDENDUM

ADDENDUM NO: 3

PROJECT: Hamilton Heights High School Phase 2 Projects

PROJECT NO: 2023060

DATE: 03/05/2024

BY: Brent Hite



This Addendum is issued in accordance with the provisions of "The General Conditions of the Contract for Construction," Article 1, "Contract Documents" and becomes a part of the Contract Documents as provided therein. This Addendum includes:

Addendum Pages:

1-15

Attached Documents:

08 36 15 – Glazed Aluminum Sectional Doors

10 14 25 – Electronic Message Center

SKA-01

Attached Drawing Sheets:

C111, C303, C501, L101, L102, L201, L202, L221, L602, P100, P103, P203, P204, M301, M703, E001, E100, E201, E202, E203, E501, E601, E612

PART 0 - GENERAL INFORMATION

0.1 NOT USED

A. Not Used

PART 1 - BIDDING REQUIREMENTS

1.1 NOT USED

A. Not Used

PART 2 - SPECIFICATIONS

2.1 00 00 00 – TOC

A. Add section 10 14 25 – ELECTRONIC MESSAGE CENTER to TOC.

B. Add section 08 36 15 – GLAZED ALUMINUM SECTIONAL DOORS to TOC.

2.2 04 20 00 – UNIT MASONRY

- A. Revise 2.04B31 Basis of Design to be **Bowerstown** (match existing 'orange').
- B. Revise 2.04B31a to be **Desert Brown Flash** (match existing 'orange').
- C. Revise 2.04B31b to be **Wire Cut** (match existing).

2.3 07 54 19 – PVC Roofing

- A. Add section 2.01A1e as follows:

'e. Versico.'

2.4 08 36 15 – GLAZED ALUMINUM SECTIONAL DOORS

- A. Add Section in its entirety.

2.5 10 14 25 – ELECTRONIC MESSAGE CENTER

- A. Add Section in its entirety.

2.6 23 37 23 – HVAC Gravity Ventilators

- A. Add the this section to the project manual per attached 23 37 23 spec included with this addendum.

2.7 23 64 01 – Packaged Air Cooled Water Chillers

- A. Page No. 3 – Paragraph 2.2
 - A. Add Quantech as an approved Manufacturer.

2.8 23 34 23 – HVAC Power Ventilators

- A. Page No. 4 – Paragraph 2.3, Q.
 - A. Add Nederman as approved manufacturer.
- B. Add the following Section 2.5, High Volume Low Speed Fans:

2.5 HVLS FANS

- A. General Description:

1. **High Volume, Low Speed (HVLS) overhead fans shall be licensed to bear the AMCA Certified Rating Seal for Circulating Fan Performance to ensure performance as cataloged in the field. Unlicensed overhead fans shall not be accepted. Entire fan**

assembly shall be UL/cUL-Listed to Underwriters Laboratory (UL) Standard 507 and CSA Standard 22.2 No. 113 to ensure compliance with the most current international testing standards. Intertek/ETL certification to UL Standard 507 and CSA Standard 22.2 No. 113 shall not be accepted.

2. Performance capabilities up to 55,800 cubic feet per minute (cfm).
3. Maximum continuous operating temperature of 104° Fahrenheit (40° Celsius).
4. Designed for forward (counter-clockwise when viewed from floor) and reverse (clockwise when viewed from floor) operation capabilities, for comfort cooling and destratification applications.
5. Each fan shall bear a permanently affixed manufacturer's mylar nameplate containing the model number, individual serial number, and electrical requirements of the fan.

B. Impeller:

1. Impeller shall be constructed of aerodynamic 6005A-T6 extruded aluminum airfoil blades connected to a single-piece, laser-cut 5/16 inch steel hub for structural strength. Multi- piece hubs shall not be permitted. All connections shall be made using a minimum of SAE Grade 5 hardware.
2. Airfoil blades shall be interlocked with one another and the impeller hub via a heavy-duty steel airfoil retaining ring for safety. Airfoil retaining ring shall be constructed of heavy gauge steel and installed at the factory to ensure proper function. Field-installed airfoil retainers shall not be accepted.
3. Airfoil blades shall be provided with a mill aluminum finish as standard.
4. Airfoil blades shall be optimized for maximum airflow, fan efficiency, and coverage area.
5. Airfoil blades shall be internally reinforced to minimize blade deflection while the fan is in standby or in operation. Blade deflection shall not exceed ± 2.4 inches in either situation.
6. Airfoil blades shall be designed for minimal weight in order to maximize fan efficiency. Individual blade weight shall not exceed 10 pounds.
7. Impeller hub shall be secured to the face of the motor by a minimum of 6 bolts. Impeller hub shall also be connected to the building structure via a safety restraint cable and hub retaining ring. Hub retaining ring shall be constructed of heavy gauge steel and installed at the factory to ensure proper function.

C. Motor:

1. Motor enclosure: IP54
2. Motors shall be of the high torque, low speed direct drive type, carefully matched to the fan load and furnished at the specified voltage and phase. High speed motors provided with a gearbox to reduce the operating speed of the fan shall not be permitted.
3. Motors shall be an external rotor design. Internal rotor motors shall not be permitted.
4. Motors shall be of the brushless DC type for maximum efficiency and speed controllability. No other motor type shall be accepted.
5. Motors shall include plug-and-play connectors for all wiring to the variable frequency drive. Motors that require these wiring connections to be stripped and terminated in the field shall not be permitted.
6. Motors shall include an internally-mounted thermistor for continuous monitoring of

the motor's internal temperature.

- 7. Motors shall include Class B insulation.**

D. Variable Frequency Drive (VFD):

- 1. VFD enclosure: IP50**
- 2. VFD shall be factory programmed and designed for Modbus RS-485 communication with control devices via the Modbus RTU communication protocol.**
- 3. VFD shall be UL Listed for single phase input at the specified voltage.**
- 4. VFD shall be provided with factory-installed, plug-and-play wiring for ease of installation. Plug-and-play wiring shall include power, communication, and fire alarm wiring pigtailed that are designed for quick and easy termination in the field.**
- 5. VFD shall include two thermistors for continuous monitoring of VFD's internal and external temperature.**
- 6. VFD shall include sensors for continuous monitoring of voltage and current.**
- 7. VFD shall include intelligent protection systems to prevent failures caused by over/under-voltage, over-current, over-temperature, over-speed, and fan impact. VFDs without these protection features shall not be permitted.**
- 8. VFD shall include the most current firmware version as of the product's manufacturing date to ensure optimal performance. As a result of continuous development, the manufacturer reserves the right to update VFD firmware without notice.**

E. Universal Ceiling Mount & Downtube:

- 1. Fans shall be provided with a universal ceiling mount that is designed for fast and secure installation on a variety of building structures. Universal ceiling mount shall be constructed of heavy gauge, bolted steel and shall include a pivoting knuckle joint with one axis of rotation to accommodate any ceiling pitch.**
- 2. Downtube shall be constructed of heavy gauge steel to provide a structural connection between the universal ceiling mount and fan motor. Downtube shall also include a welded guy wire connection ring for fast and secure installation of guy wires when required based on downtube length.**
- 3. Universal ceiling mount and downtube shall be powder-coated for corrosion resistance and aesthetic appearance.**
- 4. Standard drop length between top of universal ceiling mount and top of airfoil blades shall be 2 feet.**
- 5. All hardware shall be a minimum of SAE Grade 5.**

F. Safety Retention Cables:

- 1. Fans shall include a braided pool environment rated steel safety retention cable that is rated for a load of 495 pounds or greater. Safety retention cable shall be installed on the fan motor at the factory to ensure proper function. Field construction or installation of safety retention cables shall not be permitted.**
- 2. Safety retention cable shall be secured around the building structure via a minimum of**

two u-bolt cable clamps. Optionally, safety retention cable may be secured via one No. 4 Gripple® connector for ease of installation. Materials shall be corrosion resistant and rated for use in pool environment.

G. Guy Wires:

- 1. Guy wires shall be included for fans with drop lengths equal to or greater than 4 feet in length. Guy wires shall be constructed of braided galvanized steel and designed to prevent lateral movement of the fan when installed.**
- 2. If included, guy wires shall be secured to the building structure via the supplied beam clamps and quick links for ease of installation.**
- 3. If included, guy wires shall be secured to the fan and tensioned via high-strength steel turnbuckles with quick links. Turnbuckles shall be connected to each guy wire via a minimum of two u-bolt steel cable clamps per guy wire as standard. Optionally, guy wires may be secured to the fan and tensioned via one UG2 Gripple® turnbuckle per guy wire for ease of installation.**

H. Fire Control Panel Integration:

- 1. Fans shall include a normally closed electromechanical relay for integration with a building's fire control panel. Normally closed electromechanical relay shall be compatible with 24 VDC/VAC and 115 VAC control signals.**

I. Options/Accessories:

1. Finishes:

- a. Anodize – Hard aluminum oxide coating that resists weathering and chemical attack. Anodized finishes are available with Aluminum Association designations of AA-M10C21A31 (clear anodize, 0.4-0.7 mil thickness).**

2. Mounting Hardware:

- a. Steel Truss Kit – Includes hardware for mounting fan to structural steel angles (by others) that are sized to fit within steel trusses/bar joists.**

3. Disconnect Switches:

- a. NEMA Rated: 3R**
- b. Positive electrical shut-off.**
- c. Shipped loose for field mounting.**

4. Overhead Fan Controls:

- a. Advanced Touchscreen Control with BACnet – Touchscreen control with LCD display. Allows users to operate up to 10 or 20 fans (as specified) individually or in groups, with any combination of fan models and sizes. Fans can be controlled locally via the**

touchscreen or remotely via the BACnet MS/TP communication protocol. Powered through 115V power adapter.

J. General HVLS Fan Controls Description:

1. High Volume, Low Speed (HVLS) overhead fan controls shall be of the touchscreen type with an enclosure rating of IP40 or better for use in a variety of commercial and industrial applications.
2. User interface shall consist of a backlit LED touchscreen that provides fan control, diagnostics, fault history, and menu navigation functionality.
3. Overhead fan controls shall be designed to mount to a single-gang junction box by means of two hidden screws for ease of installation.
4. Overhead fan controls shall be powered through 24V supplied by the fan's VFD via shielded CAT-5e communication cable.
5. Overhead fan controls shall include a rear-mounted RJ45 receptacle for plug-and-play connection to overhead fans via shielded CAT-5e communication cable.
6. Overhead fan controls shall include the most current firmware version as of the product's manufacturing date to ensure optimal performance. As a result of continuous development, the manufacturer reserves the right to update controls firmware without notice.

K. System Operation:

1. Overhead fan controls shall be specifically designed to communicate with one or multiple overhead fans (as specified) in any combination of fan models and sizes via the Modbus RTU communication protocol. Controls shall be capable of operating all connected fans individually with unique speed settings and directions of rotation. Controls shall also be capable of providing a global start/stop command to all connected fans.
2. Overhead fan controls shall be capable of adjusting fan speed in predetermined increments (0-10 scale), adjusting direction of rotation (forward or reverse), reporting fan diagnostics, and recording fault history. Controls shall also be capable of dimming the optional, fan-mounted LED light when installed.
3. Overhead fan controls shall include capability for password-protected security management.
4. Overhead fan controls shall be capable of displaying system notifications including (but not limited to) fan status and current alarms on individual fan pages for system monitoring.
 - b.
 - a. Controls shall be capable of operating one or multiple overhead fans as specified. Controls shall provide start/stop, speed, and rotation direction control capabilities as well as diagnostic and fault history information for each connected fan. Controls shall also be capable of dimming the optional fan-mounted LED light.
 - b. Controls shall include RJ45 ports for plug-and-play connection to overhead fans via shielded CAT-5e communication cable in the field.

5. CAT-5e Cable

a. Factory-Assembled Cable Type:

- 1) Factory-assembled CAT-5e cable must be shielded 26 gauge cable with a drain wire and must be compliant with ISO 11801 to prevent network communication issues. Cable must be provided in pre-determined lengths (as specified) and terminated with shielded RJ45 connectors with a soldered drain by the factory. Wiring configuration must follow EIA/TIA T568B wiring pinout and individual cable lengths must not exceed 200 feet.

L. Manufacturers:

1. Macro-Air
2. Greenheck
3. Big Ass Fans
4. SkyBlade.

2.9 32 33 00 – SITE FURNISHINGS

A. Add 2.4 CAFÉ TABLES AND CHAIRS, WITH UMBRELLAS to specifications

A. Provide and install Twelve (12) of the following umbrella tables/chairs as listed below. Confirm in field with Landscape Architect final locations prior to mounting.

1. 'Charlie' Tables, as manufactured by Landscape Forms, Inc. 'Titanium' powdercoated table and chair framework finish, 'Flambe Orange' Solstice umbrella powdercoat finish. Perforated seat and Top required. Surface mounted. Colors to be finalized from manufacturer's full range by Landscape Architect during the submittal process.

- a) Note the Owner will provide two (2) umbrellas from existing attic stock. Bidder shall provide and install twelve (12) tables with umbrellas. However, as it relates to the umbrellas alone, only ten (10) new umbrellas shall be ordered.

PART 3 - DRAWINGS

CIVIL

3.1 C111 – DEMOLITION PLAN

- A. Added stone removal extents at northwest edge of north parking lot

3.2 C303 – STORM STRUCTURE DATA TABLES

- A. Re-graded and added ramps at northwest edge of north parking lot

3.3 C501 – EROSION CONTROL PLAN

- A. Revised seeding extents at northwest edge of north parking lot

LANDSCAPE

3.4 L101 – SITE MATERIALS PLAN

- A. Modified the sidewalk at the northwest edge of the north parking lot

3.5 L102 – SITE MATERIALS PLAN

- A. Modified the sidewalk at the northwest edge of the north parking lot
- B. Adjusted the location and size of the gate entrance.
- C. Added a Straight Ramp at the west edge of the retaining wall.
- D. Added a Straight Ramp and sidewalk to connect with the breach pad at the baseball field.
- E. Added a connecting sidewalk and stone gravel north of the press box at the baseball field.

3.6 L201 – LAYOUT PLAN

- A. Added Dimensions to the Modified sidewalk at the northwest edge of the north parking lot.

3.7 L202 – LAYOUT PLAN

- A. Added Dimensions to the modifications made on L102.

3.8 L222 – LAYOUT PLAN ENLARGEMENT

- A. Added Dimensions to the modifications made on L102.

3.9 L602 – SITE DETAILS

- A. Added Detail #8 Curb Ramp, Straight.

ARCHITECTURAL

3.10 A202 – AGRICULTURE FIRST FLOOR PLAN

- A. ADD plan note 21 to room SUPPORT-233
 - A. Plan note 21: VERIFY IN FIELD FINISH FLOOR ELEVATIONS AT EXISTING OVERHEAD DOORS INTO NEW ADDITION.

3.11 A350ON – OUTBUILDING EXTERIOR ELEVATIONS

- A. REVISE ELEVATION NOTE 17 to read "SIGN INCLUDED IN SIGNAGE PACKAGE, **NOT IN CONTRACT**"
- B. REVISE ELEVATION NOTE 14 to read "5'x10' DOUBLE SIDED **ELECTRONIC MESSAGE CENTER. (10 14 25)**"
- C. REVISE ELEVATION NOTE 29 to read "**16"H x 24"W x 17'-8"L ILLUMINATED SIGN BOX WITH CUSTOM PRINT (10 14 25)**"

3.12 A370OB – HOME GRRANDSTAND ELEVATION, SECTIONS & DETAILS

- A. REVISE note pointing to Husky Logo Sign to read "SIGN INCLUDED IN SIGNAGE PACKAGE, **NOT IN CONTRACT**"

3.13 A802 – AGRICULTURE FIRST FLOOR FINISH PLAN

- A. Like Skills Restroom 125-2 and Storage Room 125-1 to receive new LVT flooring:

Manufacturer: Interface
 Collection: Level Set
 Style: Natural Woodgrains
 Color: Storm A00205
 Size: 25cm X 1m
 Installation: Ashlar

1. Eliminate Finish Plan Note F5: SALVAGE DEMOED FLOORING. REMOVE PARTIAL TILES AND REPLACE WITH FULL TILES WHERE POSSIBLE. PATCH FLOORING WITH SALVAGES MATERIAL AND/OR OWNER'S ATTIC STOCK.

PLUMBING

3.7 P100 – SITE PLAN - PLUMBING

- A. Clarify responsibility of installing 1" Cold water line to pressbox

3.8 P103 – OUTBUILDING UNDERSLAB PLAN – PLUMBING

- A. Add 3" vent to sewage ejector pit

3.9 P203 – OUTBUILDING FLOOR PLANS – PLUMBING

- A. Add 3" vent for sewage ejector pit.

3.10 P204 – PRESS BOX PLANS – PLUMBING

- A. Revise Sanitary and Storm Invert elevations to match Civil

MECHANICAL

3.11 M301 – CHILLER ROOM - MECHANICAL

- A. Reissue drawing in its entirety revising chilled water piping layout

3.12 M703 – CONTROLS – CHILLED WATER SCHEMATIC

- A. Reissue drawing in its entirety revising chilled water piping schematic

ELECTRICAL

3.13 E001 – SYMBOLS, ABBREVIATIONS, & GENERAL NOTES – ELECTRICAL

- A. Add Symbol for wall mounted occupancy sensor

3.14 E100 – SITE PLAN – ELECTRICAL

- A. Reissue drawing in its entirety revising equipment locations behind main football grandstands

3.15 E201 – ADMINISTRATION FIRST FLOOR PLAN – LIGHTING

- A. Add Plan Notes as indicated in attached Drawing E201
- B. Reissue drawing in its entirety revising lighting

3.16 E202 – AGRICULTURE FIRST FLOOR PLANS – LIGHTING

- A. Reissue drawing in its entirety revising lighting in AG SHOP 232 and SUPPORT 233.

3.17 E203 – OUTBUILDING FLOOR PLANS – LIGHTING

- A. Update Fixture Types as indicated on attached Drawing E203.

3.18 E501 – RISER DIAGRAM – ELECTRICAL

- A. Update feeder sizing as indicated on attached Drawing E501

3.19 E601 – SCHEDULES – ELECTRICAL

- A. Reissue drawing in its entirety updating lighting fixture schedules

3.20 E612 – SCHEDULES – PANELBOARDS

- A. Reissue drawings in its entirety updating panelboard schedules.

PART 4 - OTHER ITEMS

4.1 SKA-01

- A. ADD sketch of exterior wall mock-up

PART 5 - QUESTIONS AND ANSWERS

5.1 Question:

Please clarify material and reference specifications for plan notes 17, 25, 26, 27, and 28 on A350OB?

Answer:

See clarification revisions in this addendum.

5.2 Question:

Is directional boring an option for the new conduits shown for the sports lighters, invertors, power, panel feeds, etc.?

Answer:

The football field is new. Any work around field will need to be done without voiding any warranties on the new field.

5.3 Question:

Scoreboard is currently a 60A 3PH 3R panel that feeds the play clocks and the sports field boxes. Since the scoreboard is not changing, we suggest changing the feed going to it to a 60A 3PH 4 wire feed that goes back to panel OL1 with a 3P60 breaker added.

Answer:

This change was made on Addendum #3, Drawing E100.

5.4 Question:

Is the new football press box prewired?

Answer:

No. Please reference spec section 13 34 16 for specifics.

5.5 Question:

Has Duke Energy been made aware of the primary and transformer location changes prior to this bid? Is there a contact for Duke familiar with this?

Answer:

Everette Mitchem is the Duke Contact (everette.mitchem@duke-energy.com)

5.6 Question:

Want to verify that we are removing fusible switches and install breaker disconnects in switchboard MPP. This would be part of the chiller alternate.

Answer:

Correct remove fusible switches to install circuit breakers.

5.7 Question:

Have all the feeds that come from the existing gear in the football field building that gets removed been accounted for? We do not see where the tennis court lighting and storage building panel has been addressed.

Answer:

Tennis Courts do not have lighting, circuits for tennis court receptacles and storage building have been added to Panelboard OL3, in Addendum #3, Drawing E100 and E612.

5.8 Question:

Heat trace is shown on the electrical plan E214 by the elevator room. Who is the supplied by? Who has the install

Answer:

BP13 (Electrical) is responsible for this heat trace.

5.9 Question:

Bid package #13 scope of work notes 23 and 27 call out installation of OFCI, food service and HVAC equipment. Assumption is the install and hook up of electrical for those items shown on plans and not the actual installation of that equipment. Exception is the loose VFD's. Please verify.

Answer:

Correct, you are just making the electrical connection.

5.10 Question:

Has a location been determined for the CM job trailer? We need to be able to figure temporary power to this location.

Answer:

Please reference ADD2 CM Drawings for locations.

5.11 Question:

What is the planned sequence of the project? Timelines, schedule?

Answer:

Please reference ADD2.

5.12 Question:

There are some fixtures that are missing in the fixture schedule. F05-12, F10-12.

Answer:

Fixture Schedule has been updated in Addendum #3, Drawing E601.

5.13 Question:

What is the MD symbol shown on E202? It is not described in the symbol's legend.

Answer:

Wall mounted occupancy sensor, symbol updated in Addendum #3, Drawing E001.

5.14 Question:

Fixture 82 on page E203. Some are shaded like an E type fixture. Should those be designated as E type fixtures?

Answer:

Fixture Schedule has been updated in Addendum #3, Drawing E601.

5.15 Question:

Concrete sealer is in the general trades package along with concrete surface treatment- stain. The sealer is installed by the concrete contractor so would it make sense to put that in their scope. The same applies to concrete stain.

Answer:

Specification sections 03 35 00 and 03 35 19 will be moved to BP02 in ADD3.

5.16 Question:

Addendum #2 multi contract summary has some notes about Danville Schools and it looks like some of the bid package notes match the Danville project and not Hamilton Heights. Can this be cleaned up?

Answer:

This was a document error internally, which occurred during the issuance of ADD2. The correct Multi Contract Summary will be included in ADD 3.

5.17 Question:

Who is responsible to relocate the existing bleachers?

Answer:

All bleacher removal and relocation will be the responsibility of BP01.

5.18 Question:

Asphalt paving is included in bid pack #1 multi contract summary. Should this be removed?

Answer:

Correct, it was listed as a reference spec in BP01, but will be removed in ADD3.

5.19 Question:

Site demo drawings note to remove the existing fence and relocate it? Is the intent to relocate this? The fabric could likely be salvaged but not the posts.

Answer:

All fences to be removed, will be replaced with new posts and fabric.

5.20 Question:

On page 501 of the plans, the door and frame schedule lists (2)qty sectional doors needed (door marks 232-3 and 232-4). However, in the specs, there is no portion listed for the sectional doors. Please clarify the specs needed for theses (2) doors, including the available headroom and track configuration needed.

Answer:

See added specification in this addendum. See drawings for available headroom.

5.21 Question:

Is the exterior signage shown on pages 350OB and A370OB required in BP06? Also, is the monument sign, page A350OB, item 10 required?

Answer:

Yes, all of the signage, excluding elevation note 17, is required as a part of the BP06, including 10/A350OB. Scope clarification for this detail is in ADD3. Plan note 14 will need to be provided by BP13.

END ADDENDUM #3

SECTION 08 36 15 – GLAZED ALUMINUM SECTIONAL DOORS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY

- A. Section includes the following:
 - 1. Electrically operated glazed aluminum sectional doors, interior, high lift.
 - 2. Manually operated glazed aluminum sectional door, interior, standard lift.

1.03 PERFORMANCE REQUIREMENTS

- A. General Performance: Sectional doors shall meet performance requirements specified without failure due to defective manufacture, fabrication, installation, or other defects in construction and without requiring temporary installation of reinforcing components.
- B. Delegated Design: Design sectional doors, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.
- C. Structural Performance: Exterior sectional doors shall withstand the effects of gravity loads, and the following loads and stresses within limits and under conditions indicated according to ASCE/SEI 7.
 - 1. Wind Loads: As indicated on Drawings.
 - 2. Deflection Limits: Design sectional doors to withstand design wind loads without evidencing permanent deformation or disengagement of door components. Deflection of door in horizontal position (open) shall not exceed 1/120 of the door width.
- D. Air Infiltration: Maximum rate not more than indicated when tested according to ASTM E 283.
 - 1. Air Infiltration: Maximum rate of 0.08 cfm/sq. ft. (0.406 L/s per sq. m) at 15 and 25 mph (24.1 and 40.2 km/h).
- E. Seismic Performance: Sectional doors shall withstand the effects of earthquake motions determined according to ASCE/SEI 7.
 - 1. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified."
- F. Operation Cycles: Provide sectional door components and operators capable of operating for not less than number of cycles indicated for each door. One operation cycle is complete when a door is opened from the closed position to the fully open position and returned to the closed position.

1.04 ACTION SUBMITTALS

- A. Product Data: For each type and size of sectional door and accessory. Include the following:
 - 1. Construction details, material descriptions, dimensions of individual components, profile door sections, and finishes.
 - 2. Rated capacities, operating characteristics, electrical characteristics, and furnished accessories.
- B. Shop Drawings: For each installation and for special components not dimensioned or detailed in manufacturer's product data. Include plans, elevations, sections, details, and attachments to other work.
 - 1. Detail equipment assemblies and indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
 - 2. Wiring Diagrams: For power, signal, and control wiring.
- C. Color Charts for Initial Selection: Manufacturer's finish charts showing full range of colors and textures available for units with factory-applied finishes.
- D. Samples for Verification: For each type of exposed finish required, prepared on Samples of size indicated below:
 - 1. Flat Door Sections: 6 inches (150 mm) square.
 - 2. Frame for Paneled Door Sections: 6 inches (150 mm) long of each width of stile and rail required.

1.05 INFORMATIONAL SUBMITTALS

- A. Warranties: Sample of special warranties.

1.06 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For sectional doors to include in maintenance manuals.

1.07 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for both installation and maintenance of units required for this Project.
- B. Manufacturer Qualifications: Engage a firm experienced in manufacturing sectional overhead doors similar to those indicated for this Project and with a record of successful in-service performance.
- C. Source Limitations: Obtain sectional doors from single source from single manufacturer.
 - 1. Obtain operators and controls from sectional door manufacturer.
- D. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

- E. Standard for Sectional Doors: Fabricate sectional doors to comply with DASMA 102 unless otherwise indicated.
- F. Regulatory Requirements: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA) and Architectural Barriers Act (ABA) Accessibility Guidelines for Buildings and Facilities" and ICC/ANSI A117.1.

1.08 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of sectional doors that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Structural failures including, but not limited to, excessive deflection.
 - b. Faulty operation of hardware.
 - c. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use; rust through.
 - d. Delamination of exterior or interior facing materials.
 - 2. Warranty Period: Two years from date of Substantial Completion.
- B. Special Finish Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components that show evidence of deterioration of factory-applied finishes within specified warranty period.
 - 1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.01 DOOR ASSEMBLY

- A. Full-Vision Aluminum Sectional Door: Sectional door formed with hinged sections.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Amarr Garage Doors.
 - b. Arm-R-Lite.
 - c. C.H.I. Overhead Doors.
 - d. Clopay Building Products; a Griffon company.
 - e. Overhead Door Corporation.
 - f. Raynor Garage Doors.
 - 2. Basis of Design: Overhead Door, Model 521 or approved equivalent by listed manufacturers.
- B. Operation Cycles: Not less than 50,000.
- C. Aluminum Sections: Full vision with manufacturer's standard, nonglazed panels across bottom section of door.

- D. Track Configuration:
 - 1. Type A: Standard-lift track at locations indicated on drawings.
 - 2. Type B: High-lift track at locations indicated on drawings.
- E. Seals: Fitted to bottom and top and around entire perimeter of door. Provide combination bottom weatherseal and sensor edge.
- F. Windows: Full panel size:
 - 1. Clear Float Glass, Tempered: 3 mm thick and complying with ASTM C 1036, Type I, Class 1, Quality Q3.
- G. Roller-Tire Material: Case-hardened steel.
- H. Locking Devices: Equip door with locking device assembly.
 - 1. Locking Device Assembly: Cremone type, both jamb sides, locking bars, operable from inside and outside, with cylinders.
- I. Counterbalance Type: Torsion spring.
- J. Electric Door Operator:
 - 1. Usage Classification: Heavy duty, 60 to 90 cycles per hour.
 - 2. Operator Type: Jackshaft, side mounted – concealed above ceiling.
 - 3. Motor Exposure: Interior, clean, and dry.
 - 4. Emergency Manual Operation: Push-up type.
 - 5. Obstruction-Detection Device: Automatic electric sensor edge on bottom bar; self-monitoring type.
 - a. Sensor Edge Bulb Color: As selected by Architect from manufacturer's full range.
 - 6. Remote-Control Station: Interior.
 - a. Key operated control stations with open, close, and stop buttons.
 - b. Coordinate final location with owner/architect prior to installation
 - 7. Other Equipment: Audible and visual signals.
 - 8. Door Monitoring: at exterior locations provide door monitoring device or feature to communicate with access control system indicating whether door is open or closed.
- K. Door Finish:
 - 1. Aluminum Finish: Bronze anodized.

2.02 ALUMINUM DOOR SECTIONS

- A. Sections: Construct door sections with stiles and rails formed from extruded-aluminum shapes, complying with ASTM B 221 (ASTM B 221M), alloy and temper recommended by manufacturer for type of use and finish indicated, with wall thickness not less than 0.065 inch (1.7 mm) for door section 1-3/4 inches (44 mm) deep. Fabricate sections with

stile and rail dimensions and profiles shown on Drawings. Join stiles and rails by welding or with concealed, 1/4-inch- (6-mm-) minimum diameter, aluminum or nonmagnetic stainless-steel through bolts, full height of door section. Form meeting rails to provide a weathertight-seal joint.

1. Reinforce sections with continuous horizontal and diagonal reinforcement, as required to stiffen door and for wind loading. Ensure that reinforcement does not obstruct vision lites.
 2. Provide reinforcement for hardware attachment.
- B. Solid Panels: Fabricate of aluminum sheet, complying with ASTM B 209 (ASTM B 209M), alloy and temper standard with manufacturer for type of use and finish indicated, not less than 0.040 inch (1.02 mm) thick, set in continuous vinyl channel retained with rigid, snap-in, extruded-vinyl moldings or with rubber or neoprene glazing gasket with aluminum stop.
- C. Full-Vision Sections: Manufacturer's standard, tubular, aluminum-framed section fully glazed with 6-mm-thick, clear acrylic glazing set in vinyl, rubber, or neoprene glazing channel and with removable extruded-vinyl or aluminum stops.

2.03 TRACKS, SUPPORTS, AND ACCESSORIES

- A. Tracks: Manufacturer's standard, galvanized-steel track system of configuration indicated, sized for door size and weight, designed for lift type indicated and clearances shown on Drawings, and complying with ASTM A 653/A 653M for minimum G60 (Z180) zinc coating. Provide complete track assembly including brackets, bracing, and reinforcement for rigid support of ball-bearing roller guides for required door type and size. Slot vertical sections of track spaced 2 inches (51 mm) apart for door-drop safety device. Slope tracks at proper angle from vertical or design tracks to ensure tight closure at jambs when door unit is closed.
- B. Track Reinforcement and Supports: Galvanized-steel track reinforcement and support members, complying with ASTM A 36/A 36M and ASTM A 123/A 123M. Secure, reinforce, and support tracks as required for door size and weight to provide strength and rigidity without sag, sway, and vibration during opening and closing of doors.
1. Vertical Track Assembly: Track with continuous reinforcing angle attached to track and attached to wall with jamb brackets.
 2. Horizontal Track Assembly: Track with continuous reinforcing angle attached to track and supported at points from curve in track to end of track by laterally braced attachments to overhead structural members.
- C. Seals: Replaceable, adjustable, continuous, compressible weather-stripping gaskets of flexible vinyl, rubber, or neoprene fitted to bottom and top of sectional door unless otherwise indicated.
- D. Windows: Manufacturer's standard window units of type and size indicated and in arrangement shown. Set glazing in vinyl, rubber, or neoprene glazing channel for metal-framed doors and elastic glazing compound for wood doors, as required. Provide removable stops of same material as door-section frames.

2.04 HARDWARE

- A. General: Provide heavy-duty, corrosion-resistant hardware, with hot-dip galvanized, stainless-steel, or other corrosion-resistant fasteners, to suit door type.

- B. Hinges: Heavy-duty, galvanized-steel hinges of not less than 0.079-inch- (2.01-mm-) nominal coated thickness at each end stile and at each intermediate stile, according to manufacturer's written recommendations for door size. Attach hinges to door sections through stiles and rails with bolts and lock nuts or lock washers and nuts. Use rivets or self-tapping fasteners where access to nuts is not possible. Provide double-end hinges where required, for doors over 16 feet (4.88 m) wide unless otherwise recommended by door manufacturer.
- C. Rollers: Heavy-duty rollers with steel ball-bearings in case-hardened steel races, mounted with varying projections to suit slope of track. Extend roller shaft through both hinges where double hinges are required. Provide 3-inch- (76-mm-) diameter roller tires for 3-inch- (76-mm-) wide track and 2-inch- (51-mm-) diameter roller tires for 2-inch- (51-mm-) wide track.
- D. Push/Pull Handles: For push-up or emergency-operated doors, provide galvanized-steel lifting handles on each side of door.

2.05 LOCKING DEVICES

- A. Locking Device Assembly: Fabricate with cylinder lock, spring-loaded deadbolt, operating handle, cam plate, and adjustable locking bars to engage through slots in tracks.
 - 1. Lock Cylinders: Provide cylinders specified in Section 08 71 00 "Door Hardware" and keyed to building keying system.
 - 2. Keys: Three for each cylinder.
- B. Safety Interlock Switch: Equip power-operated doors with safety interlock switch to disengage power supply when door is locked.

2.06 COUNTERBALANCE MECHANISM

- A. Torsion Spring: Counterbalance mechanism consisting of adjustable-tension torsion springs fabricated from steel-spring wire complying with ASTM A 229/A 229M, mounted on torsion shaft made of steel tube or solid steel. Provide springs designed for number of operation cycles indicated.
- B. Cable Drums and Shaft for Doors: Cast-aluminum or gray-iron casting cable drums mounted on torsion shaft and grooved to receive door-lifting cables as door is raised. Mount counterbalance mechanism with manufacturer's standard ball-bearing brackets at each end of torsion shaft. Provide one additional midpoint bracket for shafts up to 16 feet (4.88 m) long and two additional brackets at one-third points to support shafts more than 16 feet (4.88 m) long unless closer spacing is recommended by door manufacturer.
- C. Cables: Galvanized-steel lifting cables with cable safety factor of at least 7 to 1.
- D. Cable Safety Device: Include a spring-loaded steel or spring-loaded bronze cam mounted to bottom door roller assembly on each side and designed to automatically stop door if either lifting cable breaks.
- E. Bracket: Provide anchor support bracket as required to connect stationary end of spring to the wall and to level the shaft and prevent sag.
- F. Provide a spring bumper at each horizontal track to cushion door at end of opening operation.

2.07 ELECTRIC DOOR OPERATORS

- A. General: Electric door operator assembly of size and capacity recommended and provided by door manufacturer for door and "operation cycles" requirement specified, with electric motor and factory-prewired motor controls, starter, gear-reduction unit, solenoid-operated brake, clutch, remote-control stations, control devices, integral gearing for locking door, and accessories required for proper operation.
 - 1. Comply with NFPA 70.
 - 2. Provide control equipment complying with NEMA ICS 1, NEMA ICS 2, and NEMA ICS 6; with NFPA 70, Class 2 control circuit, maximum 24-V ac or dc.
- B. Usage Classification: Electric operator and components capable of operating for not less than number of cycles per hour indicated for each door.
- C. Door-Operator Type: Unit consisting of electric motor, gears, pulleys, belts, sprockets, chains, and controls needed to operate door and meet required usage classification.
 - 1. Jackshaft, Side Mounted: Mount jackshaft operator on the inside front wall on right or left of side of door opening concealed above ceiling where possible. Connect to torsion shaft with and adjustable coupling or drive chain.
- D. Electric Motors: Comply with NEMA designation, temperature rating, service factor, enclosure type, and efficiency requirements specified in Section 11 05 13 "Common Motor Requirements for Equipment" unless otherwise indicated.
 - 1. Electrical Characteristics:
 - a. Phase: Single phase.
 - b. Volts: 120 V.
 - c. Hertz: 60.
 - 2. Motor Type and Controller: Reversible motor and controller (disconnect switch) for motor exposure indicated.
 - 3. Motor Size: Minimum size as indicated. If not indicated, large enough to start, accelerate, and operate door in either direction from any position, at a speed not less than 8 in./sec. (203 mm/s) and not more than 12 in./sec. (305 mm/s), without exceeding nameplate ratings or service factor.
 - 4. Operating Controls, Controllers (Disconnect Switches), Wiring Devices, and Wiring: Manufacturer's standard unless otherwise indicated.
 - 5. Coordinate wiring requirements and electrical characteristics of motors and other electrical devices with building electrical system and each location where installed.
 - 6. Use adjustable motor-mounting bases for belt-driven operators.
- E. Limit Switches: Equip each motorized door with adjustable switches interlocked with motor controls and set to automatically stop door at fully opened and fully closed positions.
- F. Obstruction Detection Device: Equip motorized door with indicated external automatic safety sensor capable of protecting full width of door opening. Activation of device immediately stops and reverses downward door travel.

1. Sensor Edge: Automatic safety sensor edge, located within astragal or weather stripping mounted to bottom bar. Contact with sensor activates device. Connect to control circuit using manufacturer's standard take-up reel or self-coiling cable.
 - a. Self-Monitoring Type: Four-wire configured device designed to interface with door-operator control circuit to detect damage to or disconnection of sensor edge.
- G. Remote-Control Station: Momentary-contact, three-button control station with key operated controls labeled "Open," "Close," and "Stop."
1. Interior units, full-guarded, surface-mounted, heavy-duty type, with general-purpose NEMA ICS 6, Type 1 enclosure.
- H. Emergency Manual Operation: Equip each electrically powered door with capability for emergency manual operation. Design manual mechanism so required force for door operation does not exceed 35 lbf (155 N).
- I. Emergency Operation Disconnect Device: Equip operator with hand-operated disconnect mechanism for automatically engaging manual operator and releasing brake for emergency manual operation while disconnecting motor without affecting timing of limit switch. Mount mechanism so it is accessible from floor level. Include interlock device to automatically prevent motor from operating when emergency operator is engaged.
- J. Motor Removal: Design operator so motor may be removed without disturbing limit-switch adjustment and without affecting emergency manual operation.
- K. Audible and Visual Signals: Audible alarm and visual indicator lights in compliance with regulatory requirements for accessibility.

2.08 GENERAL FINISH REQUIREMENTS

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.09 ALUMINUM FINISHES

- A. Clear Anodic Finish: AAMA 611, AA-M12C22A41, Class I, 0.018 mm or thicker.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify other scope of work conflicts present prior to door installation or fabrication, ensuring all conflicts are resolved prior to door installation.
- B. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for substrate construction and other conditions affecting performance of the Work.

- C. Examine locations of electrical connections.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Install sectional doors and operating equipment complete with necessary hardware, anchors, inserts, hangers, and equipment supports; according to manufacturer's written instructions and as specified.
- B. Tracks:
 - 1. Fasten vertical track assembly to opening jambs and framing, spaced not more than 24 inches (610 mm) apart.
 - 2. Hang horizontal track assembly from structural overhead framing with angles or channel hangers attached to framing by welding or bolting, or both. Provide sway bracing, diagonal bracing, and reinforcement as required for rigid installation of track and door-operating equipment.
 - 3. Repair galvanized coating on tracks according to ASTM A 780.
 - 4. Coordinate work with other overhead trades to ensure adequate clearances provided, fire codes met, and no conflicts exist with door and tracks.
- C. Assume all traditional-lift tracks are to be concealed above ceiling when in open position. See drawings for additional information.
- D. Accessibility: Install sectional doors, switches, and controls along accessible routes in compliance with regulatory requirements for accessibility.

3.03 STARTUP SERVICES

- A. Engage a factory-authorized service representative to perform startup service.
 - 1. Complete installation and startup checks according to manufacturer's written instructions.
 - 2. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

3.04 ADJUSTING

- A. Adjust hardware and moving parts to function smoothly so that doors operate easily, free of warp, twist, or distortion.
- B. Lubricate bearings and sliding parts as recommended by manufacturer.
- C. Adjust doors and seals to provide tight fit around entire perimeter.
- D. Align and adjust motors, pulleys, belts, sprockets, chains, and controls according to manufacturer's written instructions.

3.05 DEMONSTRATION

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

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08 36 15
GLAZED ALUMINUM SECTIONAL DOORS

END OF SECTION

SECTION 10 14 25 – ELECTRONIC MESSAGE CENTER

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY

- A. Section Includes:
 - 1. Electronic Message Center, double sided.
 - 2. Illuminated Sign Box.

1.03 DEFINITIONS

- A. Light emitting diode (LED): Semi-conductor diode that converts DC electric energy into electromagnetic radiation at a visible frequency. Color of the LED is a function of emitted wavelength.
- B. Luminosity: Brightness of light emitting image. Unit of measure is NIT equal to one candela per square meter.
- C. Pitch: Spacing or distance between two elements such as pixels.
- D. Pixel: The smallest element of a display which can be assigned a color. Message center pixels are LED blocks.
- E. Resolution: Indication of amount of detail or sharpness of an image. Typically measured by the number of pixels displayed horizontally and vertically.

1.04 REFERENCES

- A. American Society for Testing and Materials (ASTM) Publications:
 - 1. ASTM B221 - Aluminum-Alloy Extruded Bar, Rod, Wire, Shape, and Tube.
- B. National Electrical Code.
- C. Federal Communications Commission, Part 15 Rules & Regulations.
- D. UL and C-UL Standard for Electric Signs

1.05 COORDINATION

- A. Furnish templates for placement of sign-anchorage devices embedded in permanent construction by other installers.
- B. Furnish templates for placement of electrical service embedded in permanent construction by other installers.

1.06 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For panel signs.
 - 1. Include fabrication and installation details and attachments to other work.
 - 2. Show sign mounting heights, locations of supplementary supports to be provided by other installers, and accessories.
 - 3. Show locations of electrical service connections.
 - 4. Include diagrams for power, signal, and control wiring.
- C. Product Schedule: For panel signs. Use same designations indicated on Drawings or specified.
- D. Delegated-Design Submittal: For signs indicated in "Performance Requirements" Article.
 - 1. Include structural analysis calculations for signs indicated to comply with design loads; signed and sealed by the qualified professional engineer responsible for their preparation.

1.07 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer and manufacturer.
- B. Evaluation Reports: For post-installed anchors and power-actuated fasteners, from ICC-ES or other qualified testing agency acceptable to authorities having jurisdiction.
- C. Sample Warranty: For special warranty.

1.08 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For signs to include in maintenance manuals.

1.09 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Tools: One set(s) of specialty tools for assembling signs and replacing variable sign components.

1.10 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.
- B. Message center and other electrical components shall be certified for use in United States and Canada by Underwriters Laboratories (UL) and shall bear UL label.
- C. Message center and other electrical components shall be electrically grounded in accordance with National Electrical Code (NEC), Article 600.
 - 1. Wireless control unit shall comply with Part 15 of FCC Rules.

1.11 FIELD CONDITIONS

- A. Field Measurements: Verify locations of anchorage devices and electrical service embedded in permanent construction by other installers by field measurements before fabrication, and indicate measurements on Shop Drawings.

1.12 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of signs that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Deterioration of finishes beyond normal weathering.
 - b. Deterioration of embedded graphic image.
 - c. Separation or delamination of sheet materials and components.
 - 2. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design sign structure and anchorage of illuminated panel sign type(s) according to structural performance requirements.
- B. Structural Performance: Signs and supporting elements shall withstand the effects of gravity and other loads within limits and under conditions indicated.
 - 1. Uniform Wind Load: As indicated on Structural Drawings.
 - 2. Concentrated Horizontal Load: As indicated on Structural Drawings.
 - 3. Other Design Load: As indicated on Structural Drawings.
 - 4. Uniform and concentrated loads need not be assumed to act concurrently.
- C. Thermal Movements: For exterior signs, allow for thermal movements from ambient and surface temperature changes.
 - 1. Temperature Change: 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.
- D. Accessibility Standard: Comply with applicable provisions in the USDOJ's "2010 ADA Standards for Accessible Design" the ABA standards of the Federal agency having jurisdiction and ICC A117.1.
- E. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.02 SIGNS

- A. Electronic Message Center: Digital Sign with smooth, uniform surfaces; with message and characters having uniform faces, sharp corners, and precisely formed lines and profiles; and as follows:

1. Provide Watchfire W-Series (8mm) or equivalent product subject to all requirements from one of the following:
 - a. Daktronics.
 - b. Nevco.
 - c. Everbrite, LLC.
 - d. EBSCO Signs and Displays.
 - e. Architect approved equivalent.
2. Electronic Message Center: Exterior, double sided, LED lighting including transformers, insulators, and other accessories for operability, with provision for servicing and concealing connections to building electrical system. Use tight or sealed joint construction to prevent water intrusion. Space lamps apart from each other and away from sign surfaces as needed to illuminate evenly.
 - a. Manufacturer: Watchfire
 - b. Model: W-Series 8mm
 - c. Min viewing distance: 19'-0"
 - d. Viewable Area: 5'-0" x 10'-0"
 - e. Pixels: 180 x 360
 - f. Brightness 7,000 nits
 - 1) Dimming capable in response to photocell and control scheduling.
 - g. Color: 1.2 quintillion MIN.
 - h. Frame Rate: Up to 30 frames/second
 - 1) Live Video Capable
 - i. Character Height: 2.3" and larger.
 - j. Venting: Front face, coordinate with overall monument sign construction.
 - k. Controls:
 - 1) Software: Cloud hosted control software, NO THIRD PARTY.
 - 2) Communication: Cellular Network
 - 3) Integrated Schedule Capability
 - l. Power: As required by signage manufacturer.
 - m. Weeps: Provide weep holes to drain water at lowest part of exterior signs. Equip weeps with permanent baffles to block light leakage without inhibiting drainage.
3. Frame: Entire perimeter.
 - a. Material: Aluminum.
 - b. Material Thickness: 0.080 inches minimum.
 - c. Frame Depth: Manufacturer's Standard.
 - d. Profile: Square.
 - e. Corner Condition in Elevation: Square.
 - f. Finish and Color: As selected from manufacturer's full range.
4. Mounting: Manufacturer's standard method for substrates indicated with concealed anchors.

5. Flatness Tolerance: Sign shall remain flat under installed conditions as indicated on Drawings and within a tolerance of plus or minus 1/16 inch (1.5 mm) measured diagonally from corner to corner.
- B. Illuminated Sign Box: Use tight or sealed joint construction to prevent water intrusion. Space lamps apart from each other and away from sign surfaces as needed to illuminate evenly.
 1. Material: Acrylic.
 2. Size: 1' - 4" H x 2'-0" W x 17'-8" L
 3. Sides: 5-sided, bottom mounted.
 4. Light Fixture: manufacturer's standard LED front-lit fixture.
 5. Logo: Custom Print
 - a. Text: 'HOME OF THE HUSKIES'
 - b. Font: As selected by architect/owner.
6. Mounting: Manufacturer's recommended bottom mounting, coordinate with other trades for installation.

2.03 SIGN MATERIALS

- A. Aluminum Sheet and Plate: ASTM B209 (ASTM B209M), alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated.
- B. Aluminum Extrusions: ASTM B221 (ASTM B221M), alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated.
- C. Polycarbonate Sheet: ASTM C1349, Appendix X1, Type II (coated, mar-resistant, UV-stabilized polycarbonate), with coating on both sides.
- D. Acrylic face sheet: 10mm – 20mm solid acrylic.

2.04 ACCESSORIES

- A. Provide temperature sensor, photocell, electrical junction boxes, conduits, mounting hardware, and other accessories as required for installation.
- B. Fasteners and Anchors: Manufacturer's standard as required for secure anchorage of signs, noncorrosive and compatible with each material joined, and complying with the following unless otherwise indicated:
 1. Use concealed fasteners and anchors unless indicated to be exposed.
 2. For exterior exposure, furnish stainless-steel devices unless otherwise indicated.
 3. Exposed Metal-Fastener Components, General:
 - a. Fabricated from same basic metal and finish of fastened metal unless otherwise indicated.
 - b. Fastener Heads: For nonstructural connections, use oval countersunk screws and bolts with tamper-resistant Allen-head slots unless otherwise indicated.
 4. Sign Mounting Fasteners:

- a. Concealed Studs: Concealed (blind), threaded studs welded or brazed to back of sign material or screwed into back of sign assembly unless otherwise indicated.
- 5. Inserts: Furnish inserts to be set by other installers into concrete or masonry work.
- C. Post-Installed Anchors: Fastener systems with bolts of same basic metal as fastened metal, if visible, unless otherwise indicated; with working capacity greater than or equal to the design load, according to an evaluation report acceptable to authorities having jurisdiction, as appropriate for the substrate.
 - 1. Uses: Securing signs with imposed loads to structure.
 - 2. Type: Torque-controlled, expansion anchor or torque-controlled, adhesive anchor.
 - 3. Material for Exterior Where Stainless Steel Is Indicated: Alloy Group 2 (A4) stainless-steel bolts, ASTM F593 (ASTM F738M), and nuts, ASTM F594 (ASTM F836M).
- D. Power-Actuated Anchors: Fastener systems with working capacity greater than or equal to the design load, according to an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC70.
- E. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D1187/D1187M.

2.05 FABRICATION

- A. General: Provide manufacturer's standard sign assemblies according to requirements indicated.
 - 1. Preassemble signs in the shop to greatest extent possible. Disassemble signs and assemblies only as necessary for shipping and handling limitations. Clearly mark units for reassembly and installation; apply markings in locations concealed from view after final assembly.
 - 2. Mill joints to a tight, hairline fit. Form assemblies and joints exposed to weather to resist water penetration and retention.
 - 3. Conceal connections if possible; otherwise, locate connections where they are inconspicuous.
 - 4. Internally brace signs for stability, to meet structural performance loading without oil-canning or other surface deformation, and for securing fasteners.
 - 5. Provide rabbets, lugs, and tabs necessary to assemble components and to attach to existing work. Drill and tap for required fasteners. Use concealed fasteners where possible; use exposed fasteners that match sign finish.

2.06 GENERAL FINISH REQUIREMENTS

- A. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

- C. Organic, Anodic, and Chemically Produced Finishes: Apply to formed metal after fabrication but before applying contrasting polished finishes on raised features unless otherwise indicated.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Verify that sign-support surfaces are within tolerances to accommodate signs without gaps or irregularities between backs of signs and support surfaces unless otherwise indicated.
- C. Verify that anchorage devices embedded in permanent construction are correctly sized and located to accommodate signs.
- D. Verify that electrical service is correctly sized and located to accommodate signs.
- E. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Coordinate provision of message center with:
 - 1. Design and construction of auxiliary framing and supports concrete footings and steel posts and other structural framing in monument sign detailed on Drawings and specified in other sections.
 - 2. Design and provision of electrical supply, conduit, wiring, disconnect switch, weatherproof receiver and circuit boxes, and other electrical components for powering message center and controls.
- B. Prior to installation, verify type and location of power supply.

3.03 INSTALLATION

- A. General: Install signs using mounting methods indicated and according to manufacturer's written instructions.
 - 1. Install signs level, plumb, true to line, and at locations and heights indicated, with sign surfaces free of distortion and other defects in appearance.
 - 2. Install signs so they do not protrude or obstruct according to the accessibility standard.
 - 3. Before installation, verify that sign surfaces are clean and free of materials or debris that would impair installation.
 - 4. Corrosion Protection: Coat concealed surfaces of exterior aluminum in contact with grout, concrete, masonry, wood, or dissimilar metals, with a heavy coat of bituminous paint.
- B. Before installation, field test message center for operating functions. Ensure that message center accurately performs all operations. Correct deficiencies.

- C. Install message center and accessories in accordance with manufacturer's instructions and approved installation drawings.
- D. Rigidly mount message center level and plumb with fasteners.
- E. Mounting Methods:
 - 1. Concealed Studs: Using a template, drill holes in substrate aligning with studs on back of sign. Remove loose debris from hole and substrate surface.
 - a. Masonry Substrates: Fill holes with adhesive. Leave recess space in hole for displaced adhesive. Place sign in position and push until flush to surface, embedding studs in holes. Temporarily support sign in position until adhesive fully sets.

3.04 ADJUSTING AND CLEANING

- A. Remove and replace damaged or deformed signs and signs that do not comply with specified requirements. Replace signs with damaged or deteriorated finishes or components that cannot be successfully repaired by finish touchup or similar minor repair procedures.
- B. Remove temporary protective coverings and strippable films as signs are installed.
- C. On completion of installation, clean exposed surfaces of signs according to manufacturer's written instructions, and touch up minor nicks and abrasions in finish. Maintain signs in a clean condition during construction and protect from damage until acceptance by Owner.

3.05 DEMONSTRATING AND TRAINING

- A. In accordance with Division 01 Section "Starting, Adjusting, and Demonstrating", provide demonstration and training session for Owner's representative covering operation and maintenance of electronic message center.
 - 1. Provide operating manual with clear easy to follow instructions. Manufacturer will offer instruction and demonstration at the factory. Provide technical consultation by phone to answer any questions.

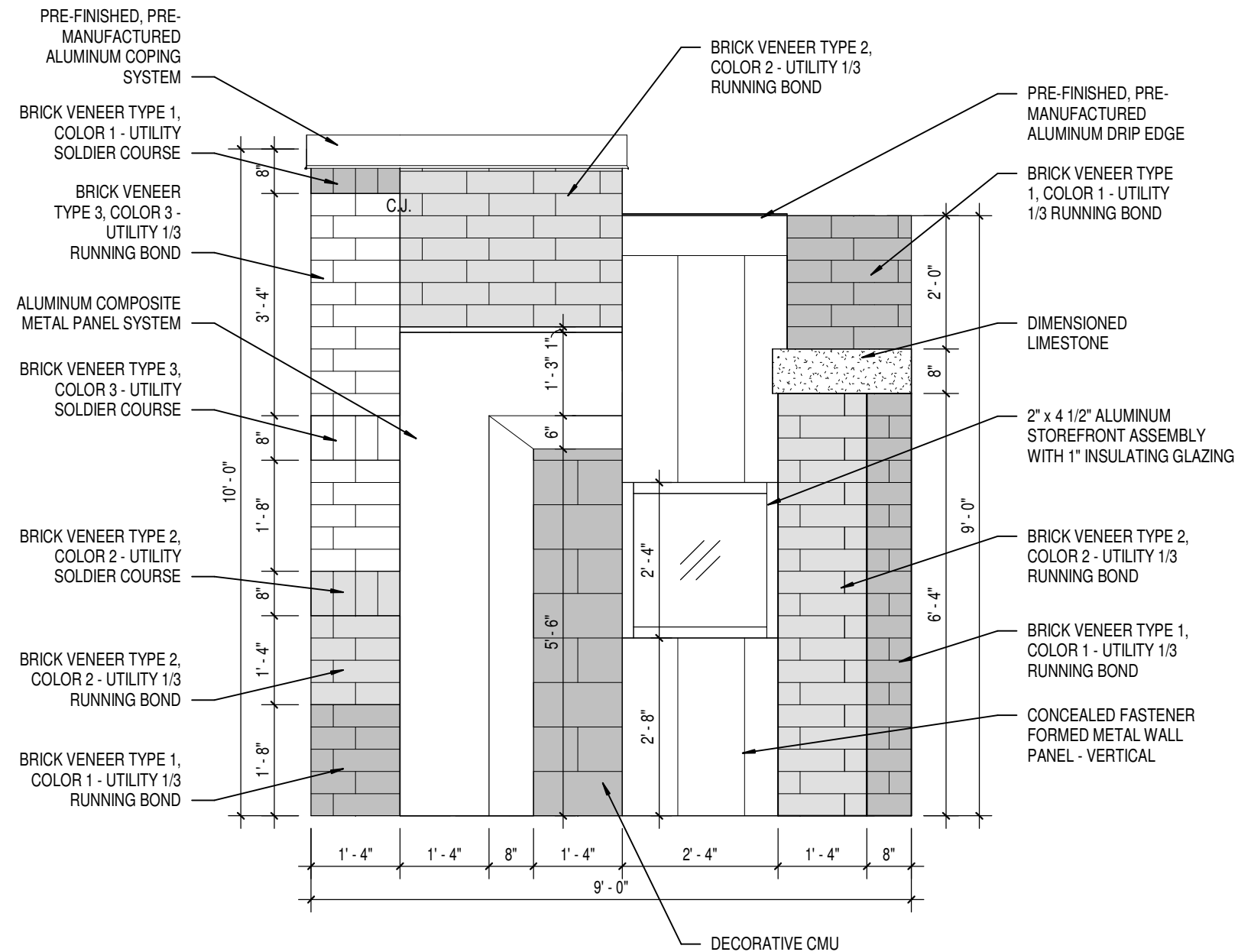
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SUPPLEMENTAL DRAWING

GENERAL NOTES:

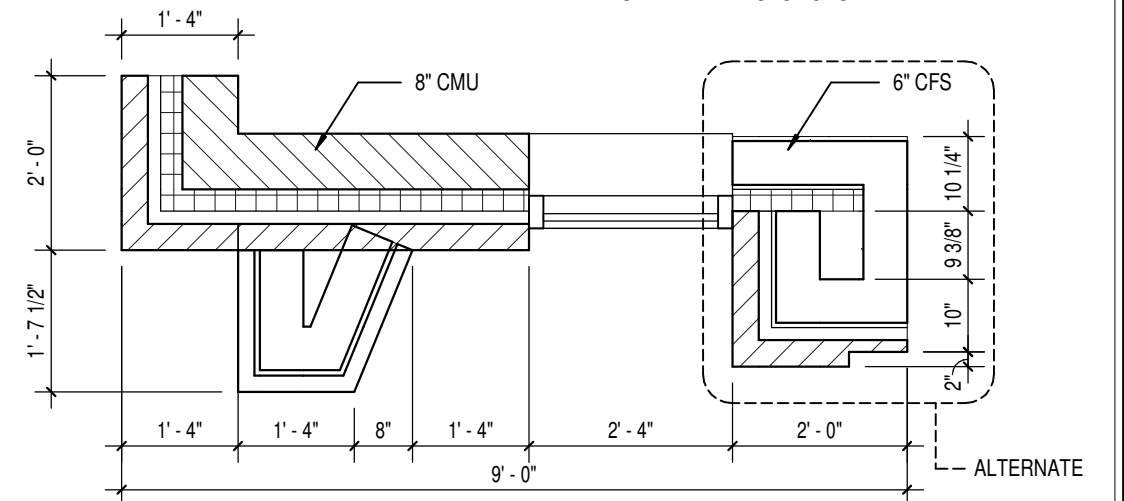
PROVIDE 2 SEALANT COLORS AT EACH LOCATION
WHERE SEALANT IS REQUIRED FOR SELECTION BY
ARCHITECT.

PROVIDE TYPICAL WALL FLASHINGS, WEEPS,
MASONRY ACCESSORIES AS REQUIRED/ INDICATED
IN SIMILAR WALL SECTIONS.

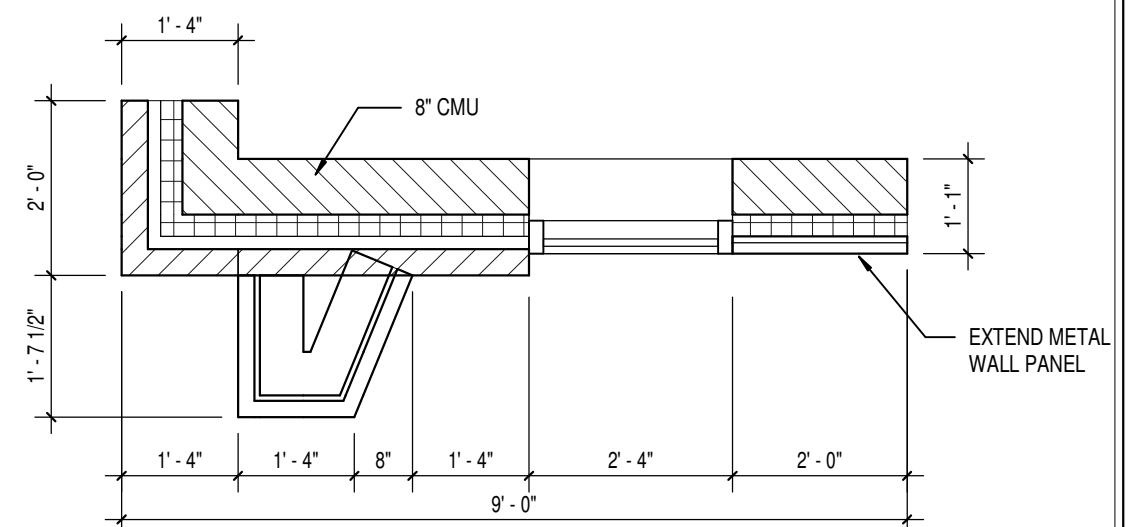


EXTERIOR WALL MOCK UP

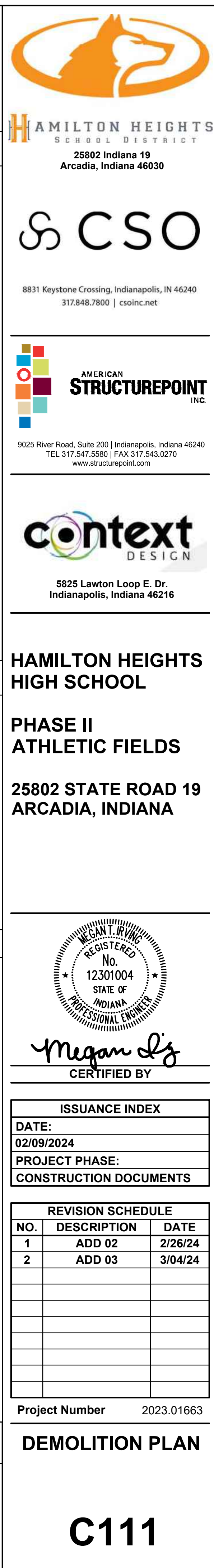
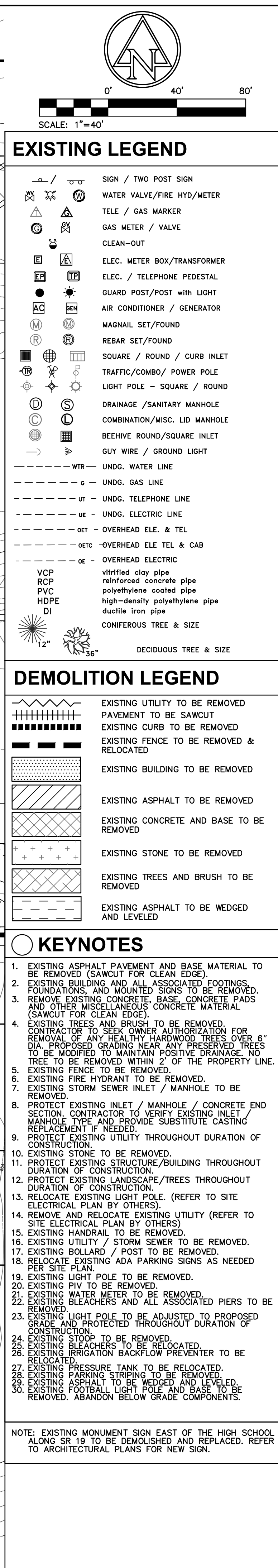
SCALE: 1/2" = 1'-0"



ALTERNATE

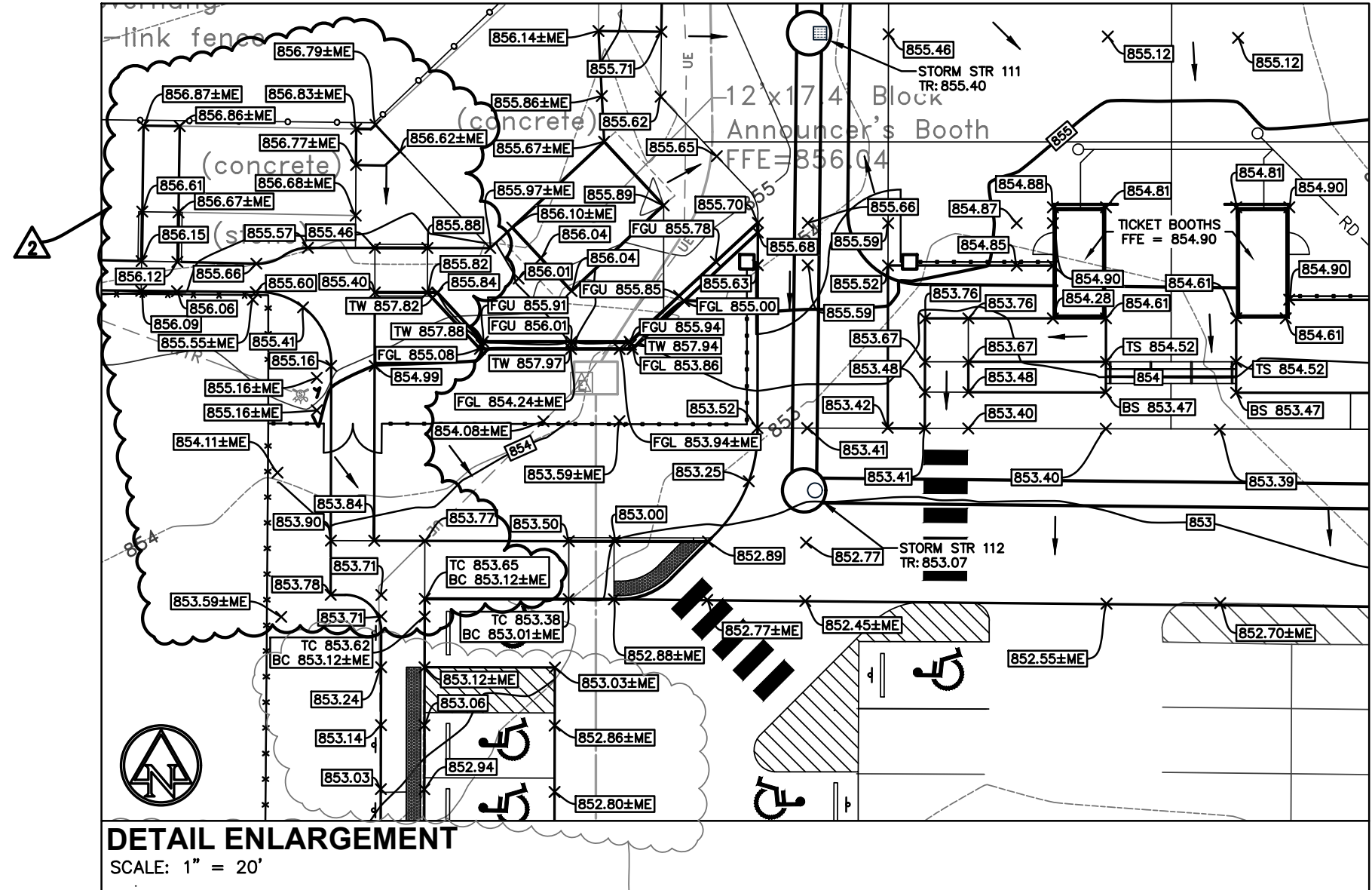


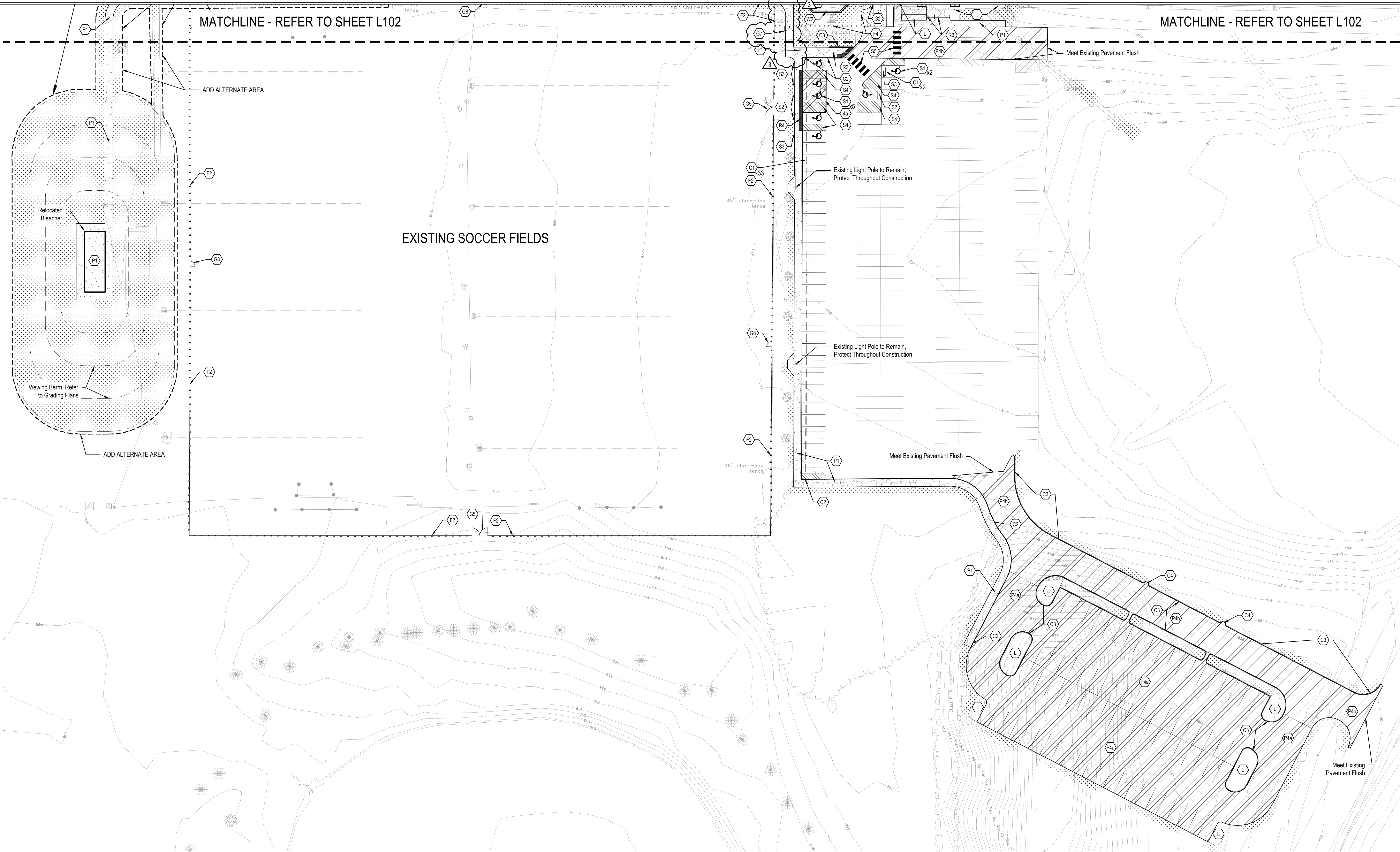
BASE BID



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EDIT DATE: 3/4/2024
EDITED BY: MURVING

STORM STRUCTURE DATA TABLE										
NOTE: ALL CASTINGS SHALL BE LABELED "DUMP NO WASTE--DRAINS TO WATERWAY"										
STR. NO.	STRUCTURE TYPE	CASTING TYPE	TOP OF RIM	INCOMING PIPE DATA (DIRECTION) [FROM STR]	OUTGOING PIPE DATA (DIRECTION) [TO STR]	OUTGOING PIPE L.F.	OUTGOING PIPE SIZE	OUTGOING GRADE (%)	CONNECT TO STRUCT	REMARKS
100	TYPE "J" MH	R-4342	855.01		30" HDPE 849.10 (SE) [101]	61'	30"	0.25%	101	
101	TYPE "J" MH	R-4342	854.08	30" HDPE 848.94 (NW) [100]	30" HDPE 848.94 (S) [102]	84'	30"	0.25%	102	
102	TYPE "J" MH	R-4342	854.41	30" HDPE 848.73 (N) [101]	30" HDPE 848.73 (S) [104]	56'	30"	0.25%	104	
103	TYPE "A" INLET	R-4342	854.88	12" RCP 850.57 (N) []	12" HDPE 850.36 (SE) [104]	50'	12"	0.34%	104	
104	TYPE "J" MH	R-4342	854.31	30" HDPE 848.59 (N) [102] 12" HDPE 850.19 (NW) [103]	30" HDPE 848.59 (S) [106]	77'	30"	0.30%	106	
105	TYPE "A" INLET	R-4342	854.78		12" HDPE 851.08 (SE) [106]	32'	12"	0.35%	106	
106	TYPE "J" MH	R-3472	855.08	12" HDPE 850.97 (NW) [105] 30" HDPE 848.37 (N) [104]	30" HDPE 848.37 (S) [107]	52'	30"	0.30%	107	
107	TYPE "J" MH	R-3472	855.13	30" HDPE 848.21 (N) [106] 8" HDPE 851.76 (E) [TD1]	36" HDPE 848.21 (S) [108]	78'	36"	0.15%	108	
108	TYPE "J" MH	R-4342	854.40	36" HDPE 848.09 (N) [107] 18" RCP 848.43 (NW) []	36" HDPE 848.09 (S) [109]	66'	36"	0.10%	109	
109	TYPE "J" MH	R-4342	854.36	36" HDPE 848.03 (N) [108]	36" HDPE 848.03 (S) [110]	70'	36"	0.10%	110	
110	TYPE "J" MH	R-3472	855.53	36" HDPE 847.96 (N) [109]	36" HDPE 847.96 (S) [111]	42'	36"	0.10%	111	
111	TYPE "J" MH	R-3472	855.40	36" HDPE 847.92 (N) [110]	36" HDPE 847.92 (S) [112]	63'	36"	0.10%	112	
112	TYPE "J" MH	R-1772		36" HDPE 847.85 (N) [111]	36" HDPE 847.85 (E) [113]	112'	36"	0.10%	113	
113	TYPE "J" MH	R-1772	853.47	36" HDPE 847.74 (W) [112]	36" HDPE 847.74 (SE) [114]	111'	36"	0.10%	114	
114	36" CONCRETE END SECTION	-	850.84	36" HDPE 847.63 (NW) [113]						DEBRIS GUARD REQUIRED
201	TYPE "A" INLET	R-3472	855.42		8" HDPE 852.01 (S) [202]	50'	8"	0.50%	202	
202	TYPE "A" INLET	R-3472	855.30	8" HDPE 851.76 (N) [201]	12" HDPE 851.56 (S) [205]	60'	12"	0.35%	205	
203	NYLOPLAST BASIN	1099CQDF	854.94		8" HDPE 851.58 (N) [204]	46'	8"	0.50%	204	
204	NYLOPLAST BASIN	1099CQDF	854.93	8" HDPE 851.35 (S) [203]	8" HDPE 851.25 (N) [205]	32'	8"	1.25%	205	
205	TYPE "C" MH	R-3472	855.15	12" HDPE 851.35 (N) [202] 8" HDPE 850.85 (S) [204]	12" HDPE 848.55 (NE) [206]	36'	12"	0.55%	206	
206	TYPE "J" MH	R-1772	855.67	12" HDPE 848.35 (SW) [205] 6" PVC SDR 21 849.95 (NE) [] 33" RCP 848.16 (NW) []	33" RCP 848.25 (SE) []	2'	33"	0.00%		
302	TYPE "C" MH	R-4342	857.68	15" RCP 852.31 (NE) []	15" HDPE 852.21 (S) [303]	123'	15"	0.30%	303	
303	TYPE "C" MH	R-1772	857.90	15" HDPE 851.84 (N) [302]	15" HDPE 851.84 (W) [INLET]	28'	15"	0.45%	INLET	



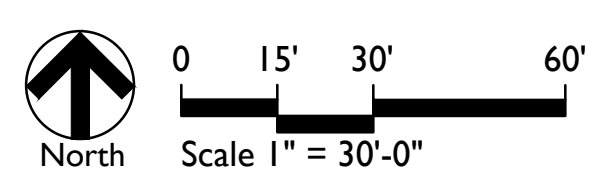


ATHLETIC EQUIPMENT	
KEY	DESCRIPTION / REFERENCE
A1	BACKSTOP TENSION NETTING SYSTEM, REFER TO SITE DETAILS 5, 7/L101 AND SPECIFICATIONS
A2	BACKSTOP TENSION NETTING SYSTEM POSTS, REFER TO SITE DETAIL 4/L101 AND SPECIFICATIONS
CURBS	
KEY	DESCRIPTION / REFERENCE
C1	WHEEL STOP, REFER TO SITE DETAIL 10/L00
C2	INTEGRAL CURB AND SIDEWALK, REFER TO SITE DETAIL 10/L00
C3	POST CURB, REFER TO SITE DETAIL 7/L00
C4	CURB TURNOUT, REFER TO SITE DETAIL 9/L00
FENCING	
KEY	DESCRIPTION / REFERENCE
F1	CHAIN LINK FENCE, 4'-0" HT., VINYL COATED, BLACK, REFER TO SITE DETAIL 3/L01 AND SPECIFICATIONS
F2	CHAIN LINK FENCE, 6'-0" HT., VINYL COATED, BLACK, REFER TO SITE DETAIL 3/L01 AND SPECIFICATIONS
F3	CHAIN LINK FENCE, 8'-0" HT., VINYL COATED, BLACK, REFER TO SITE DETAIL 3/L01 AND SPECIFICATIONS
F4	ORNAMENTAL FENCE, 6'-0" HT., REFER TO SITE DETAIL 3/L01 AND SPECIFICATIONS
F5	CHAIN LINK FENCE, 6'-0" HT., VINYL COATED, BLACK, WITH PRIVACY SLATS, REFER TO SITE DETAIL 3/L01 AND SPECIFICATIONS

GATES	
KEY	DESCRIPTION / REFERENCE
G1	CHAIN LINK, DOUBLE WING SWING GATE, 24'-0" WIDTH, VINYL COATED, BLACK, MATCH ADJACENT FENCING HT., REFER TO SPECIFICATIONS
G2	CHAIN LINK, DOUBLE WING SWING GATE, 20'-0" WIDTH, VINYL COATED, BLACK, MATCH ADJACENT FENCING HT., REFER TO SPECIFICATIONS
G3	ORNAMENTAL DOUBLE SLIDING GATE, 16'-0" WIDTH, MATCH ADJACENT FENCING HT., REFER TO SPECIFICATIONS
G4	ORNAMENTAL DOUBLE SLIDING GATE, 16'-0" WIDTH, MATCH ADJACENT FENCING HT., REFER TO SPECIFICATIONS
G5	CHAIN LINK, DOUBLE WING SWING GATE, 12'-0" WIDTH, VINYL COATED, BLACK, MATCH ADJACENT FENCING HT., REFER TO SPECIFICATIONS
G6	CHAIN LINK, DOUBLE WING SWING GATE, 10'-0" WIDTH, VINYL COATED, BLACK, MATCH ADJACENT FENCING HT., REFER TO SPECIFICATIONS
G7	CHAIN LINK, SINGLE WING SWING GATE, 8'-0" WIDTH, VINYL COATED, BLACK, MATCH ADJACENT FENCING HT., REFER TO SPECIFICATIONS
G8	CHAIN LINK, SINGLE WING SWING GATE, 4'-0" WIDTH, VINYL COATED, BLACK, MATCH ADJACENT FENCING HT., REFER TO SPECIFICATIONS
G9	CHAIN LINK, SINGLE WING SWING GATE, 8'-0" WIDTH, VINYL COATED, BLACK, MATCH ADJACENT FENCING HT., REFER TO SPECIFICATIONS
G10	CHAIN LINK, SINGLE WING SWING GATE, 3'-0" WIDTH, VINYL COATED, BLACK, MATCH ADJACENT FENCING HT., REFER TO SPECIFICATIONS

PAVEMENT, CONCRETE	
KEY	DESCRIPTION / REFERENCE
P1	STANDARD DUTY CONCRETE, REFER TO SITE DETAIL 13/L00
P2	HEAVY DUTY CONCRETE, REFER TO SITE DETAIL 13/L00
P3	HOME BLEACHER PAD CONCRETE, REFER TO MANUFACTURER REQUIREMENTS
PAVEMENT, ASPHALT	
KEY	DESCRIPTION / REFERENCE
P4a	STANDARD DUTY ASPHALT, REFER TO SITE DETAIL 9/L00
P4b	HEAVY DUTY ASPHALT, REFER TO SITE DETAIL 9/L00
PAVEMENT, GRAVEL	
KEY	DESCRIPTION / REFERENCE
P5	GRAVEL SURFACING, REFER TO SITE DETAIL 9/L01
RAMPS & STAIRS	
KEY	DESCRIPTION / REFERENCE
R1	PARALLEL CURB RAMP, REFER TO SITE DETAIL 11/L02
R2	ONE WAY DIRECTIONAL PERPENDICULAR CORNER CURB RAMP, REFER TO SITE DETAIL 25/L02
R3	STAIRS WITH HANDRAILS, REFER TO SITE DETAILS 35/L02
R4	TRUNCATED DOMES WITH NO WALK CONDITION, REFER TO SITE DETAIL 6/L02
R5	CURB RAMP - STRAIGHT, REFER TO SITE DETAIL 6/L02

SIGNAGE AND STRIPING, (COMPLY WITH MUTCD STANDARDS, VIF REGULATORY SIGNS WITH CITY REPRESENTATIVE)	
KEY	DESCRIPTION / REFERENCE
S1	ADA PARKING SYMBOL, REFER TO SITE DETAIL 11/L01
S2	VAN ACCESSIBLE ADA PARKING SIGN, REFER TO SITE DETAIL 11/L00
S3	ACCESSIBLE ADA PARKING SIGN, REFER TO SITE DETAIL 11/L00
S4	ADA STRIPING, REFER TO SITE DETAIL 12/L00
S5	CROSSWALK STRIPING, REFER TO SITE DETAIL 7/L02
WALLS	
KEY	DESCRIPTION / REFERENCE
W1	MASONRY PIER, REFER TO SITE DETAILS 49/L02
W2	CAST IN PLACE RETAINING WALL, REFER TO SITE DETAIL 29/L01
W3	MONUMENT SIGN, REFER TO ARCHITECTURAL PLANS
LANDSCAPE AREA	
KEY	DESCRIPTION / REFERENCE
L	REFER TO L300 SERIES PLANTING PLANS
	SEEDED LAWN TURF, REFER TO SPECIFICATIONS



**Hamilton Heights
School Corporation**

CSO

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**context
DESIGN**

5805 Louisa Loop, E. Co. 1 Indianapolis, IN 46216
317.485.6900 | www.context-design.com

PROJECT:

**HAMILTON HEIGHTS
SCHOOL CORPORATION
HAMILTON HEIGHTS HIGH SCHOOL
PHASE 2 PROJECTS
25802 IN-19 Site 2, Arcadia, IN 46030**

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major structural elements and the type of structural, mechanical and electrical systems. This drawing is not necessarily inclusive or exclusive of work required for full performance and completion of the project. The drawings are the property of context DESIGN, Inc. and shall remain the property of context DESIGN, Inc. The contractor shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

▲ 02/22/2024	Addendum #1
▲ 02/26/2024	Addendum #2
▲ 03/04/2024	Addendum #3

ISSUE DATE	DRAWN BY	CHECKED BY
02/09/2024	MA	FP

DRAWING TITLE:

**SITE
MATERIALS
PLAN**

CERTIFIED BY:

J. PRAKASU

REGISTERED
No. 2020-0052
STATE OF
INDIANA
LANDSCAPE ARCHITECT
EXPIRES 12-31-2025

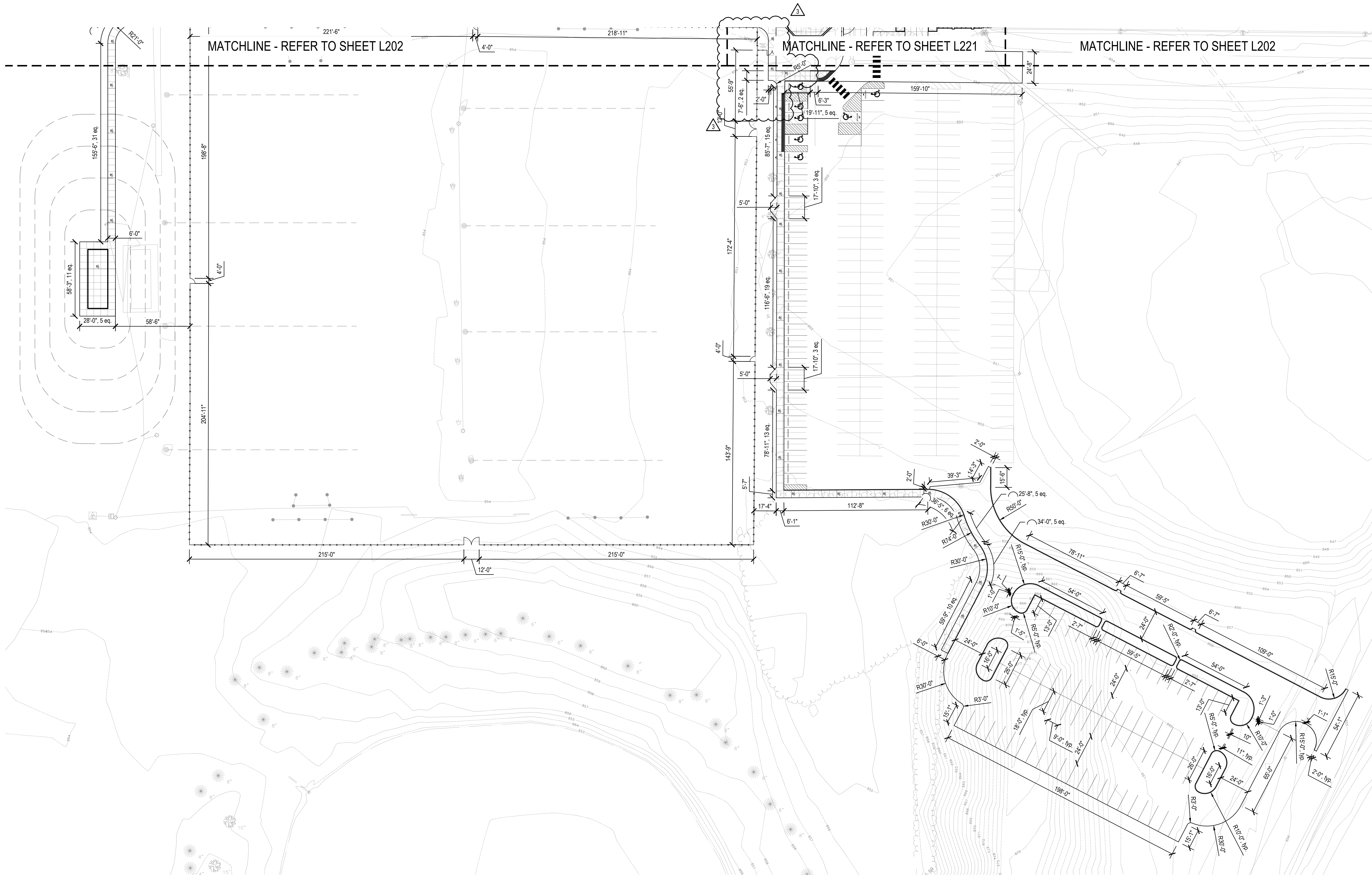
DRAWING NUMBER

L101

PROJECT NUMBER

2022060



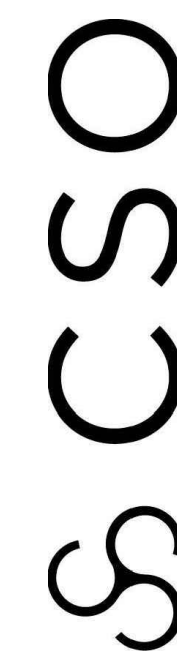


LAYOUT NOTES

- Dimensions are shown to Face of Curb unless otherwise noted.
- Contractor shall coordinate final joint locations in the field with the Landscape Architect. Align to existing conditions when practical, including at building and wall corners, connections to existing work, and to centerlines of doors.
- Space control joints evenly between all bands and expansion joints as shown, unless otherwise dimensioned. Space interim joints equally whenever possible.
- Digital AutoCAD files will be provided to the successful bidder as a courtesy to assist with field layout. The Contractor maintains all responsibility for the use, accuracy, and confirmation of such data.
- All pavement striping shown shall adhere to Specifications. The Contractor shall include in their bid any miscellaneous copy, striping, or curb painting that may be requested by the Fire Marshal.
- All disturbed areas not proposed to receive pavements shall be dressed with topsoil and seeded per Specifications.
- Contractor shall provide and install One (1) Accessible Parking Sign per accessible parking space indicated in plans. Coordinate final location in the field with Landscape Architect.

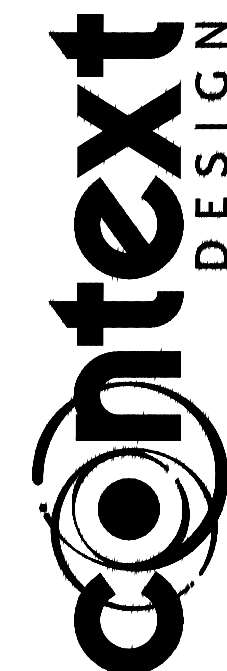


Hamilton Heights
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PROJECT:

HAMILTON HEIGHTS
SCHOOL CORPORATION
HAMILTON HEIGHTS HIGH SCHOOL
PHASE 2 PROJECTS
25802 IN-19 Site 2, Arcadia, IN 46030

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of structural, mechanical and electrical systems. This drawing is not necessarily indicative or descriptive of work required for full performance and completion of the requirements of the Contract.

REVISIONS:

02/22/2024	Addendum #1
02/26/2024	Addendum #2
03/04/2024	Addendum #3

ISSUE DATE	DRAWN BY	CHECKED BY
02/09/2024	MA	FP

DRAWING TITLE:

LAYOUT
PLAN

CERTIFIED BY:

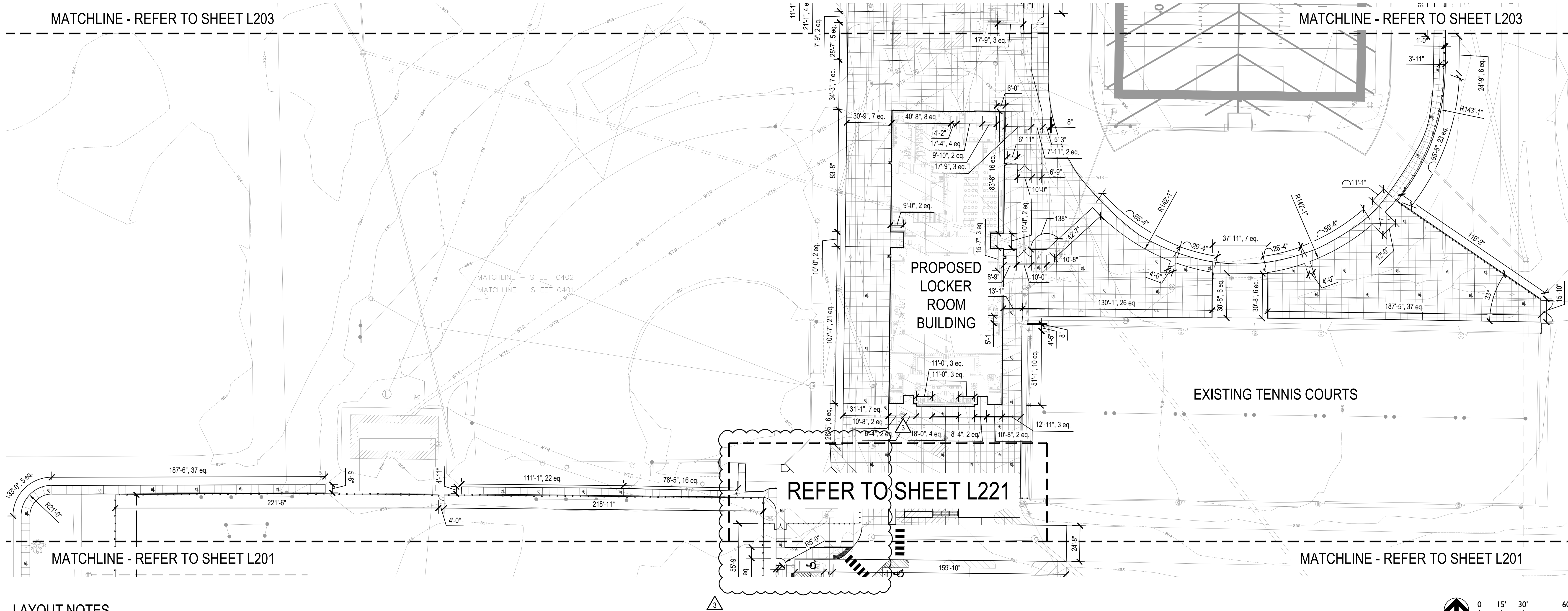


DRAWING NUMBER

L201

PROJECT NUMBER

2022060

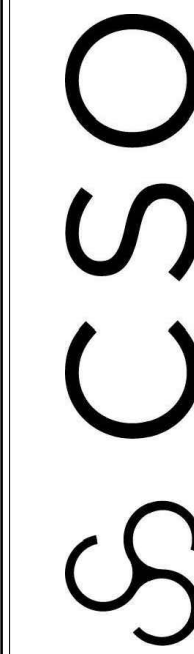


LAYOUT NOTES

1. Dimensions are shown to Face of Curb unless otherwise noted.
2. Contractor shall coordinate final joint locations in the field with the Landscape Architect. Align to existing conditions when practical, including at building and wall corners, connections to existing work, and to centerlines of doors.
3. Space control joints evenly between all bands and expansion joints as shown, unless otherwise dimensioned. Space interim joints equally whenever possible.
4. Digital AutoCAD files will be provided to the successful bidder as a courtesy to assist with field layout. The Contractor maintains all responsibility for the use, accuracy, and confirmation of such data.
5. All pavement striping shown shall adhere to Specifications. The Contractor shall include in their bid any miscellaneous copy, striping, or curb painting that may be requested by the Fire Marshal.
6. All disturbed areas not proposed to receive pavements shall be dressed with topsoil and seeded per Specifications.
7. Contractor shall provide and install One (1) Accessible Parking Sign per accessible parking space indicated in plans. Coordinate final location in the field with Landscape Architect.

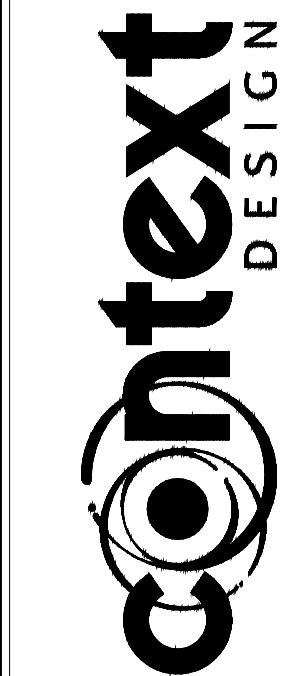


Hamilton Heights
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PROJECT:
HAMILTON HEIGHTS
SCHOOL CORPORATION
HAMILTON HEIGHTS HIGH SCHOOL
PHASE 2 PROJECTS
25802 IN-19 Site 2, Arcadia, IN 46030

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of structural, mechanical and electrical systems. The drawings do not necessarily indicate or describe all work required for full performance and completion of the project. The Contractor shall coordinate with the design team to determine the scope of work required for the project. The Contractor shall coordinate with the design team to determine the scope of work required for the project. The Contractor shall coordinate with the design team to determine the scope of work required for the project.

REVISIONS:
02/22/2024 Addendum #1
02/26/2024 Addendum #2
03/04/2024 Addendum #3

ISSUE DATE DRAWN BY CHECKED BY
02/09/2024 MA FP

DRAWING TITLE:
LAYOUT
PLAN



DRAWING NUMBER
L202

PROJECT NUMBER
2022060



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317.848.7800 | csoinc.net



PROJECT: HAMILTON HEIGHTS
SCHOOL CORPORATION
HAMILTON HEIGHTS HIGH SCHOOL
PHASE 2 PROJECTS
25802 IN-10 Site 2 Arcadia IN 46013


SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

The drawings do not necessarily indicate or describe the work required for the design and completion of the requirements of the Contract.

On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

	02/22/2024	Addendum #
	02/26/2024	Addendum #
	03/04/2024	Addendum #

ISSUE DATE	DRAWN BY	CHECKED BY
02/09/2024	MA	FP

DRAWING TITLE:

LAYOUT
PLAN
ENLARGEMENT

CERTIFIED BY:

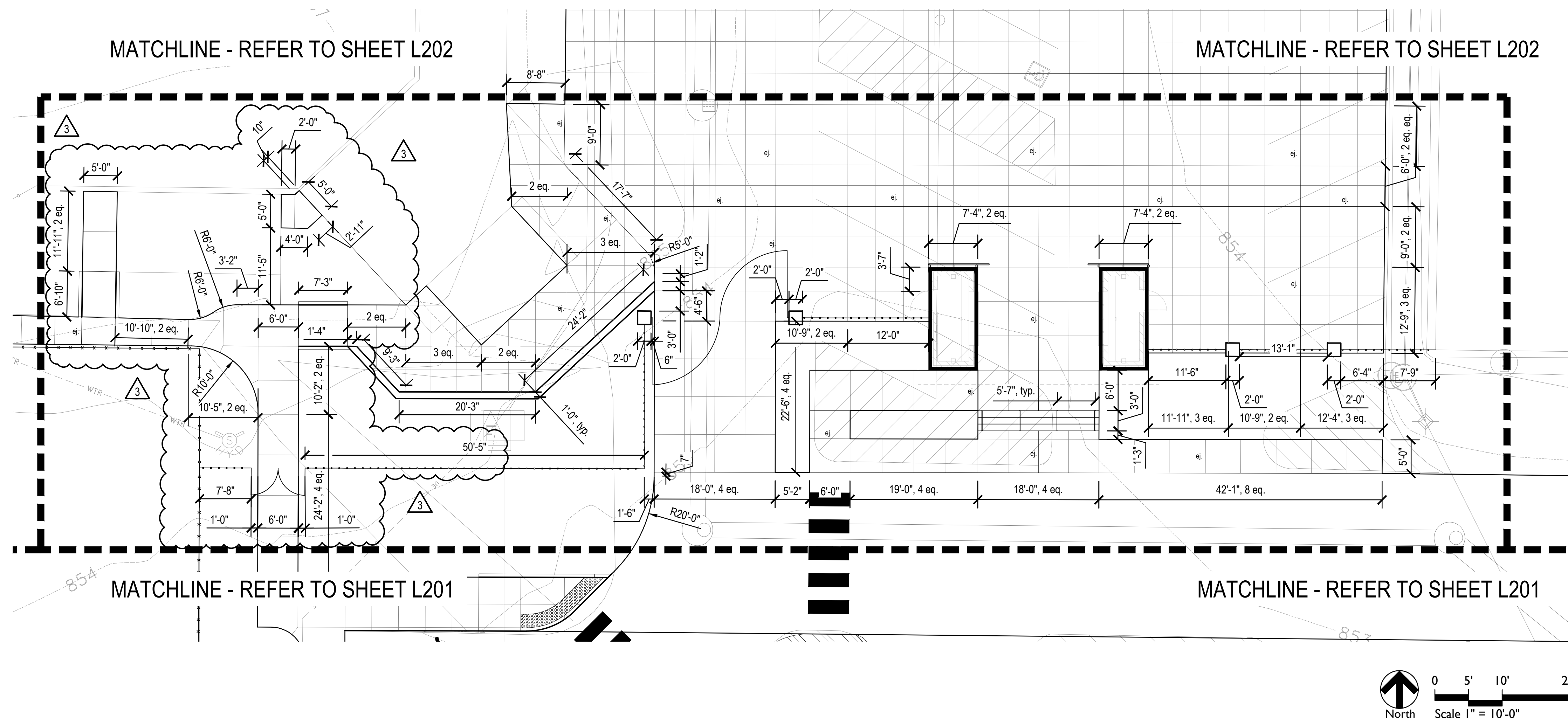


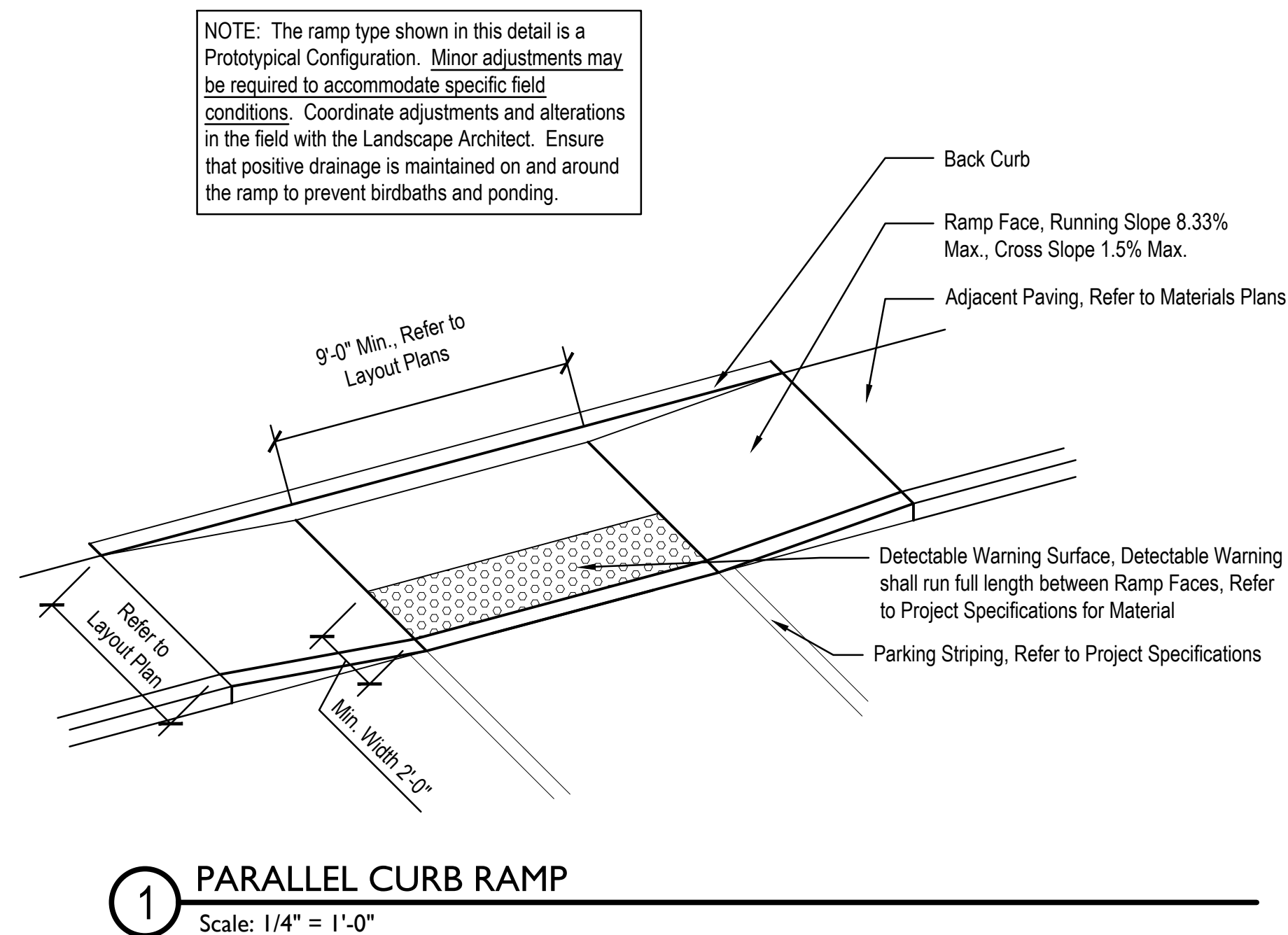
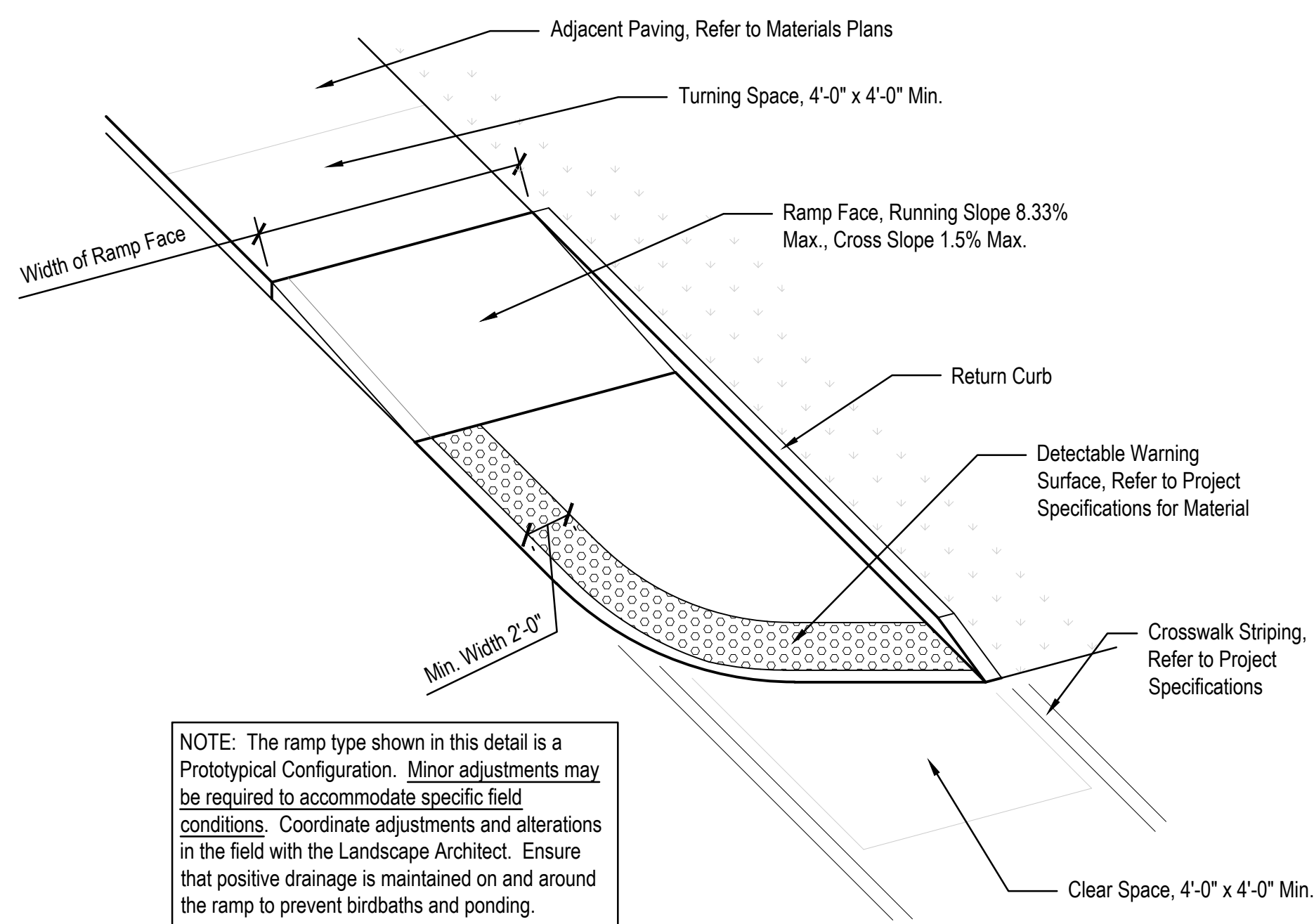
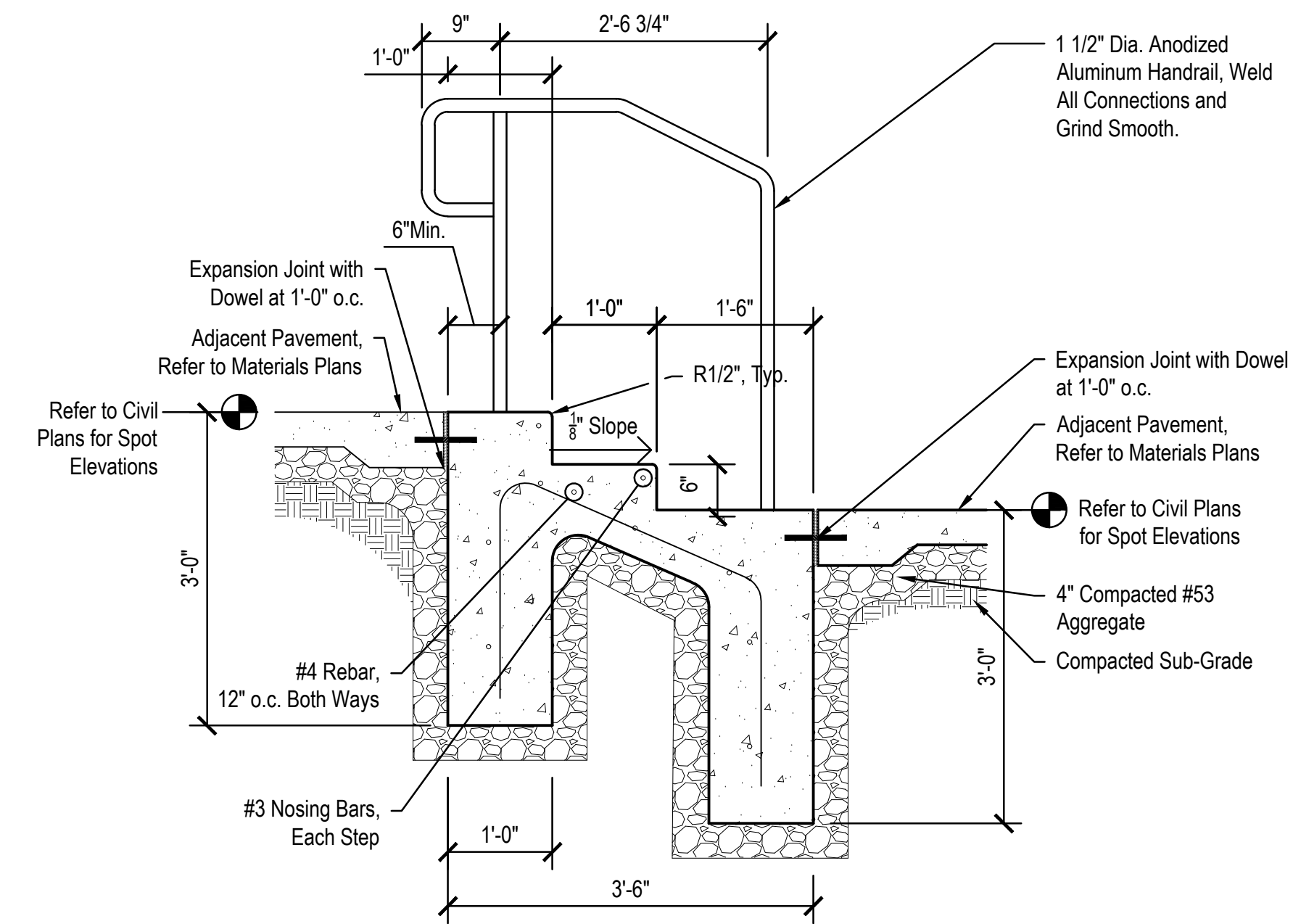
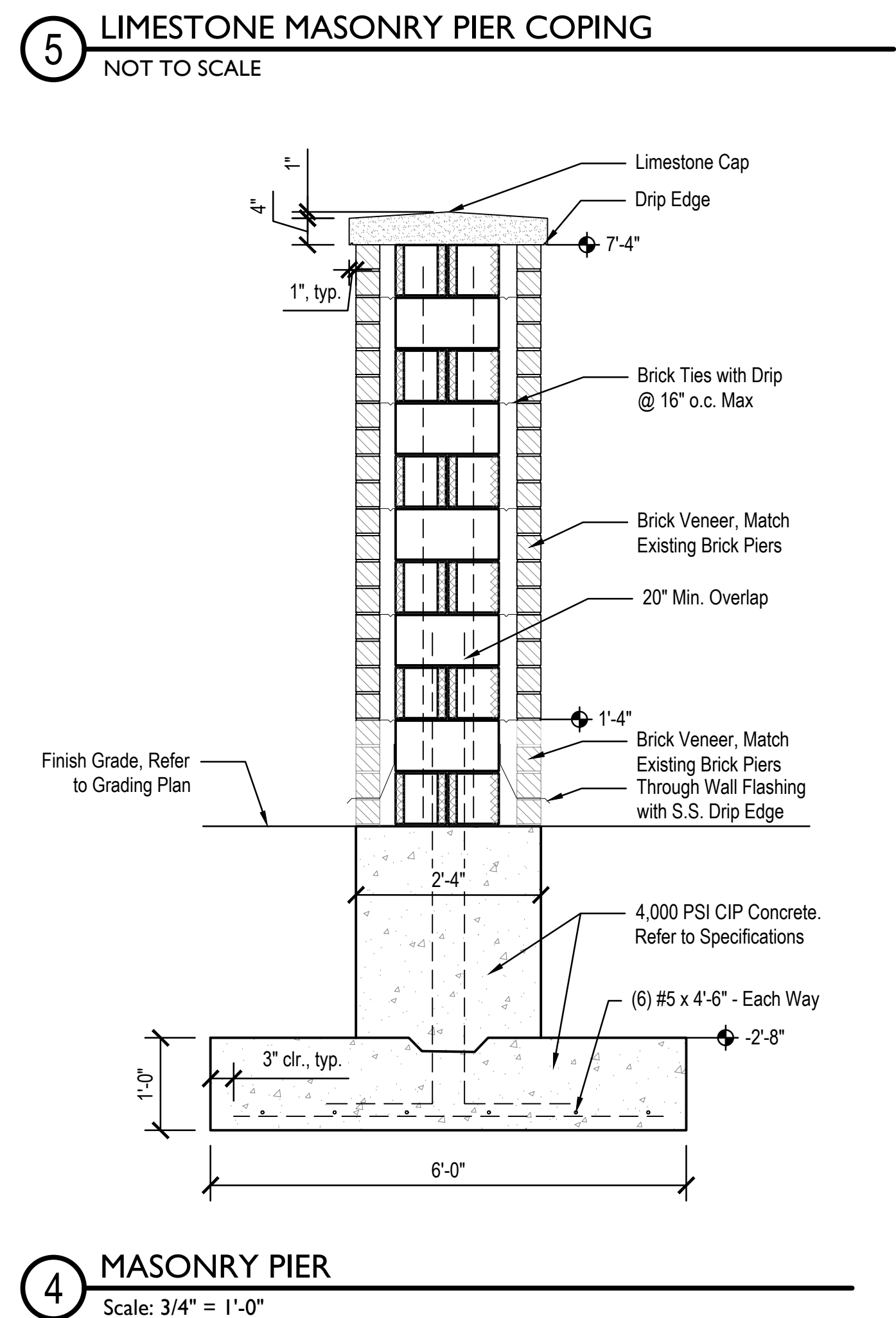
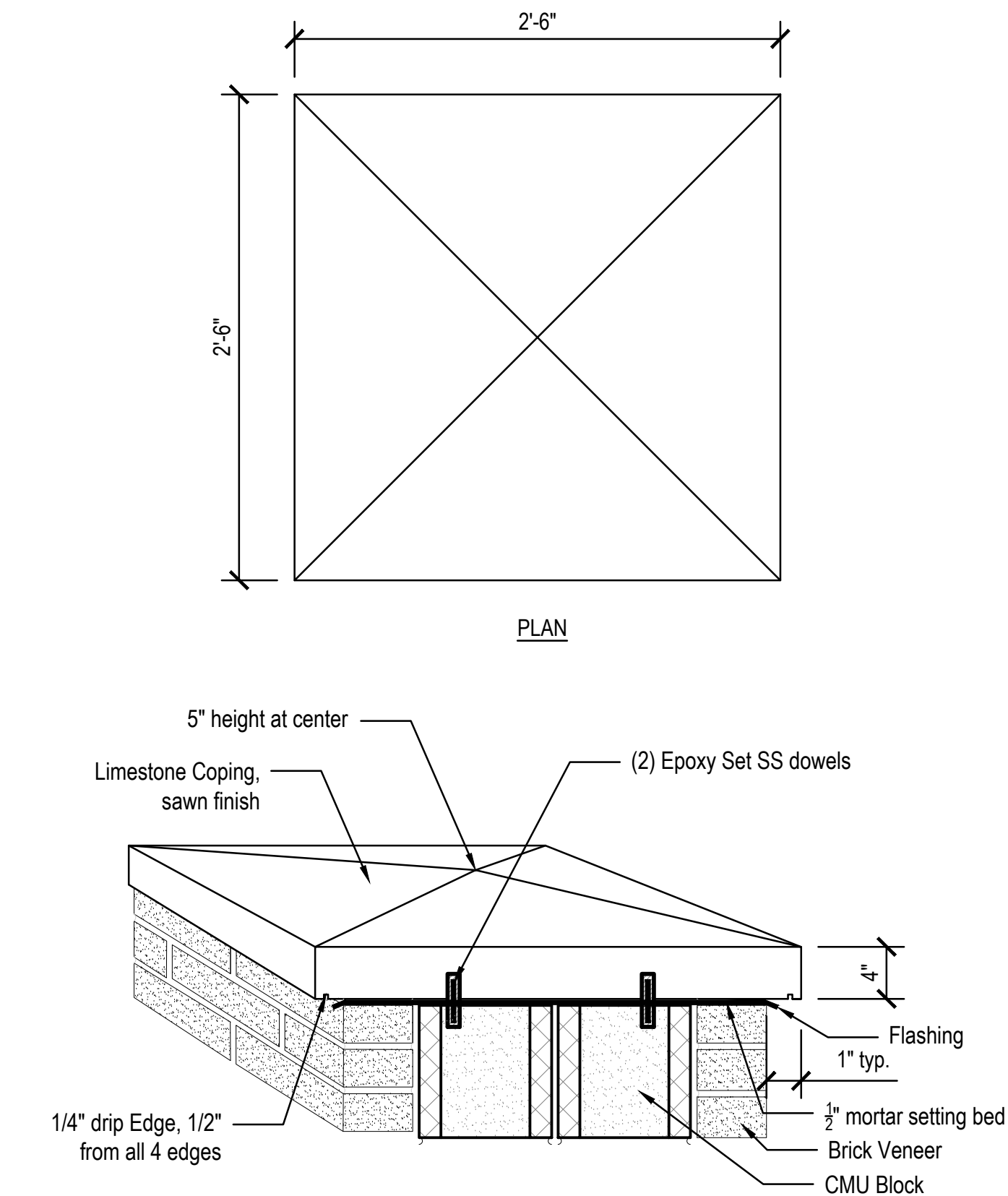
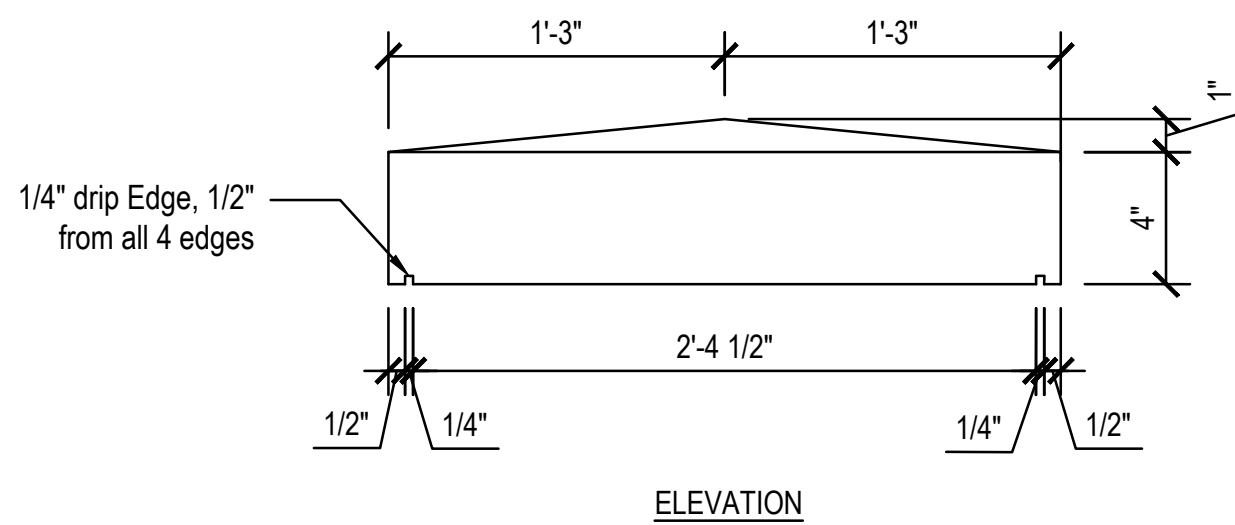
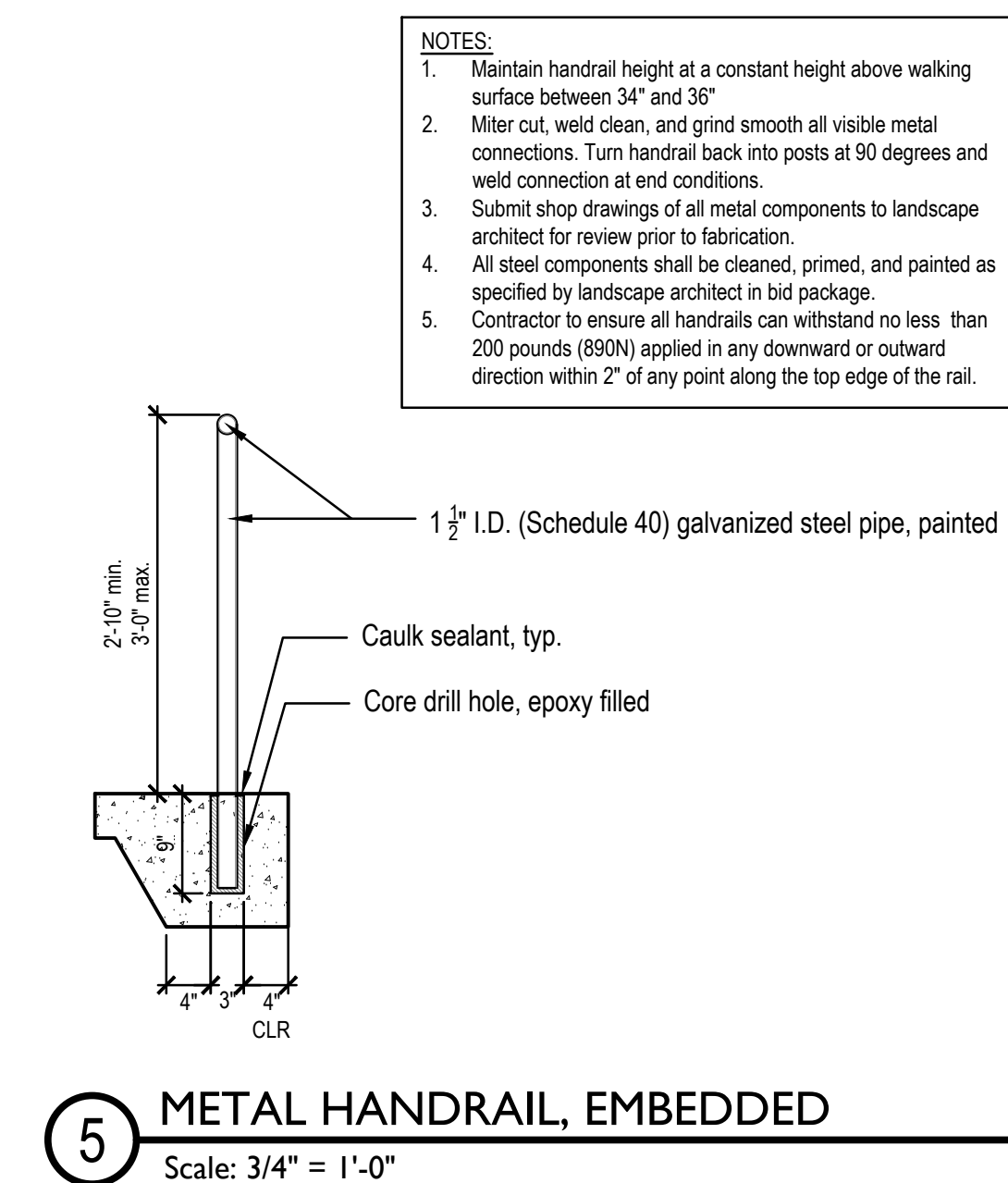
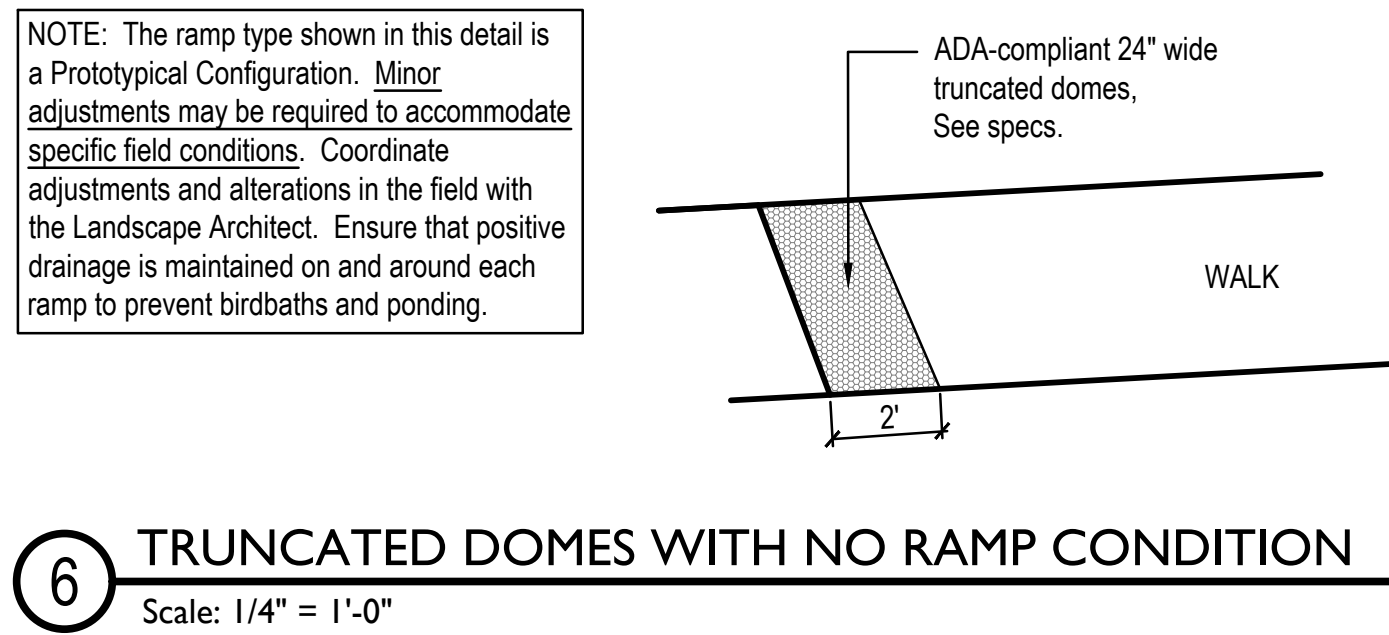
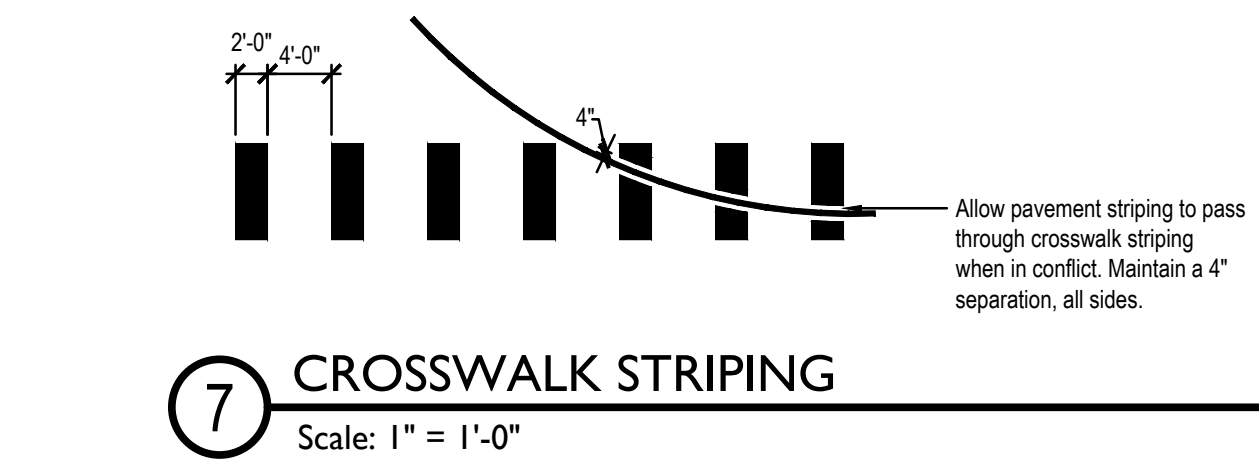
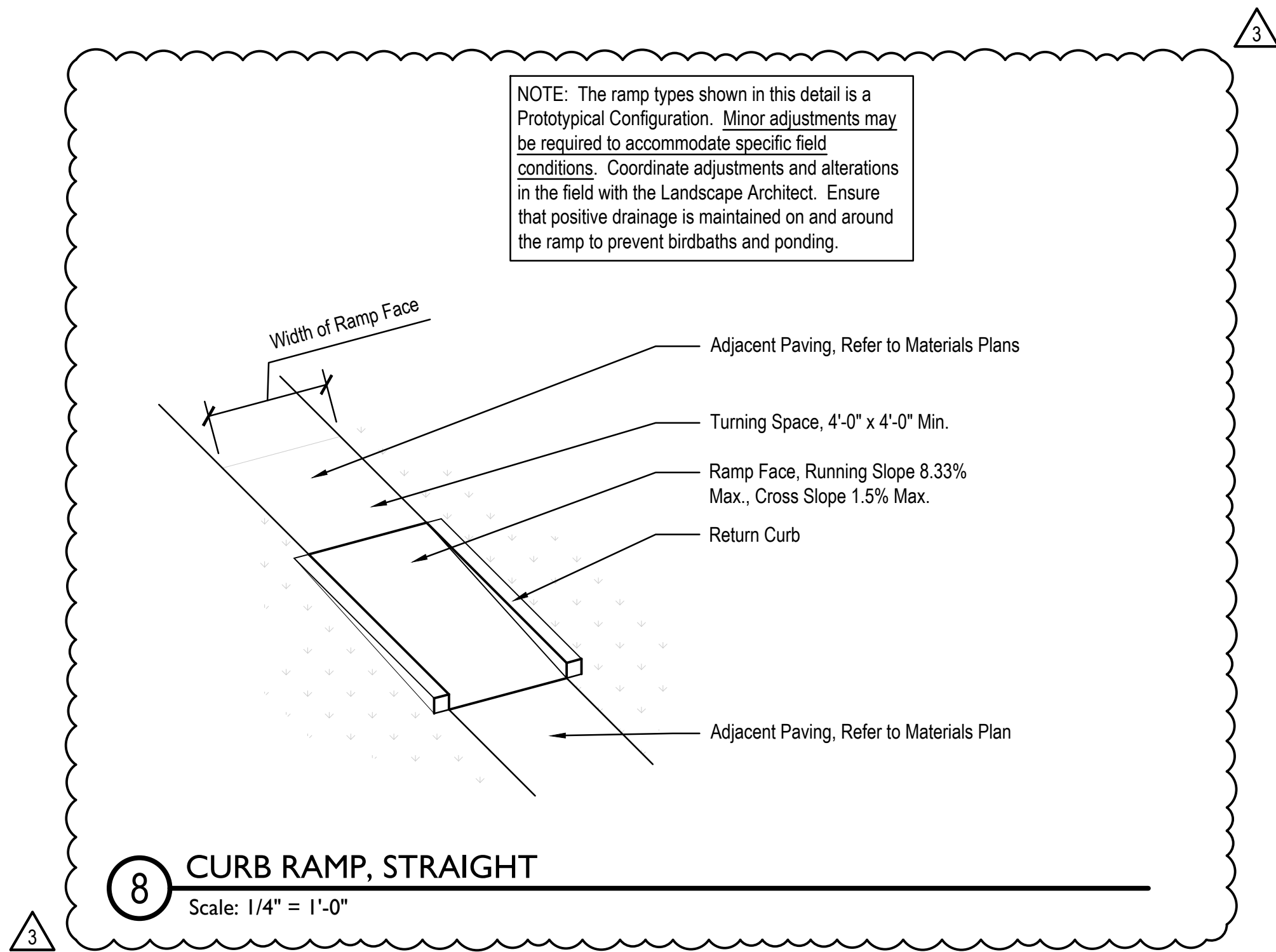
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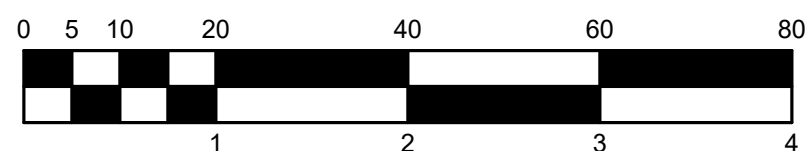
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PROJECT NUMBER

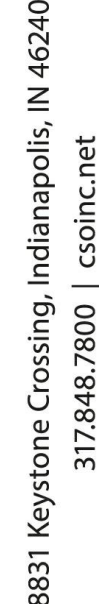
2022060







1. NEW 1" COLD WATER PIPING FROM OUTBUILDING.
2. NEW 1" COLD WATER PIPING TO PRESS BOX.
3. 4" SANITARY FROM ELEVATOR PIT AND PRESS BOX. CONNECT TO EXISTING SANITARY LATERAL. SEE CIVIL DRAWINGS FOR CONTINUATION.



Consulting Engineers

732 North Capitol Avenue
Indianapolis, IN 46204

PROJECT:
HAMILTON HEIGHTS SCHOOL
CORPORATION
HAMILTON HEIGHTS HIGH SCHOOL
PHASE 2 PROJECTS
25802 IN-19 Site 2, Arcadia, IN 46030

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.

Drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.

REVISIONS:		
2	Addendum #3	2024-03-04

ISSUE DATE	DRAWN BY	CHECKED BY
02/08/2024	AMB	DJU

DRAWING TITLE:
**SITE PLAN -
PLUMBING**

CERTIFIED BY:



Daniel J. Ulrich

02/08/2024

DRAWING NUMBER
P100

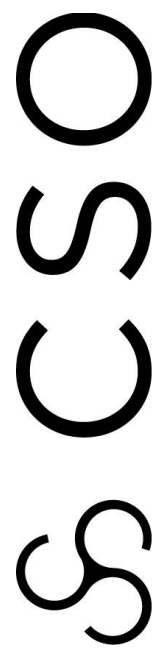
PROJECT NUMBER
2022060

GENERAL NOTES:

1. SEE PM001 FOR GENERAL NOTES.



Hamilton Heights
School Corporation



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and Associates, Inc.

Consulting Engineers

732 North Capital Avenue
Phone: (317) 634-4672
Fax: (317) 634-8725

PROJECT:
HAMILTON HEIGHTS SCHOOL
CORPORATION
HAMILTON HEIGHTS HIGH SCHOOL
PHASE 2 PROJECTS
25802 IN-19 Site 2, Arcadia, IN 46030

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of mechanical design concepts, the direction of flow of air, water, and electrical systems.
The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

2 Addendum #3 2024-03-04

ISSUE DATE 02/08/2024
DRAWN BY AMB
CHECKED BY DUJ

DRAWING TITLE:

OUTBUILDING
UNDERSLAB
PLAN -
PLUMBING

CERTIFIED BY:



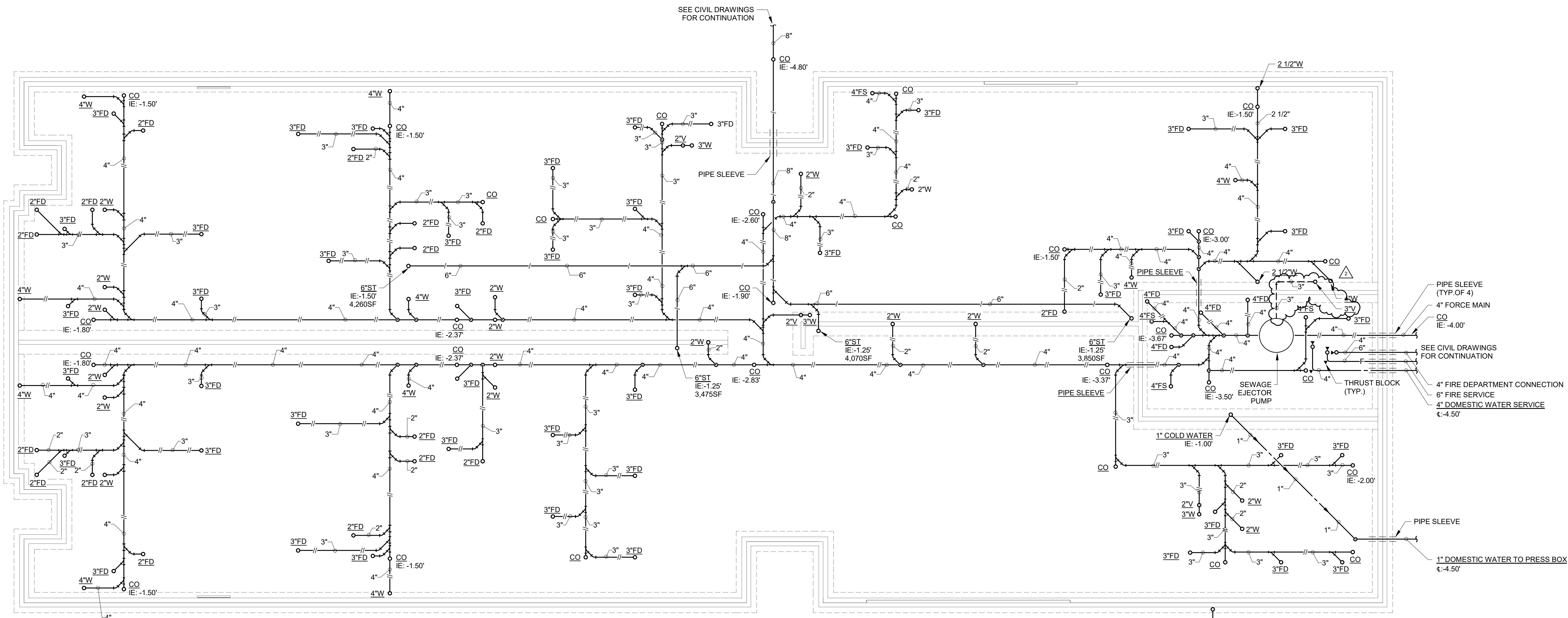
02/08/2024

DRAWING NUMBER

P103

PROJECT NUMBER

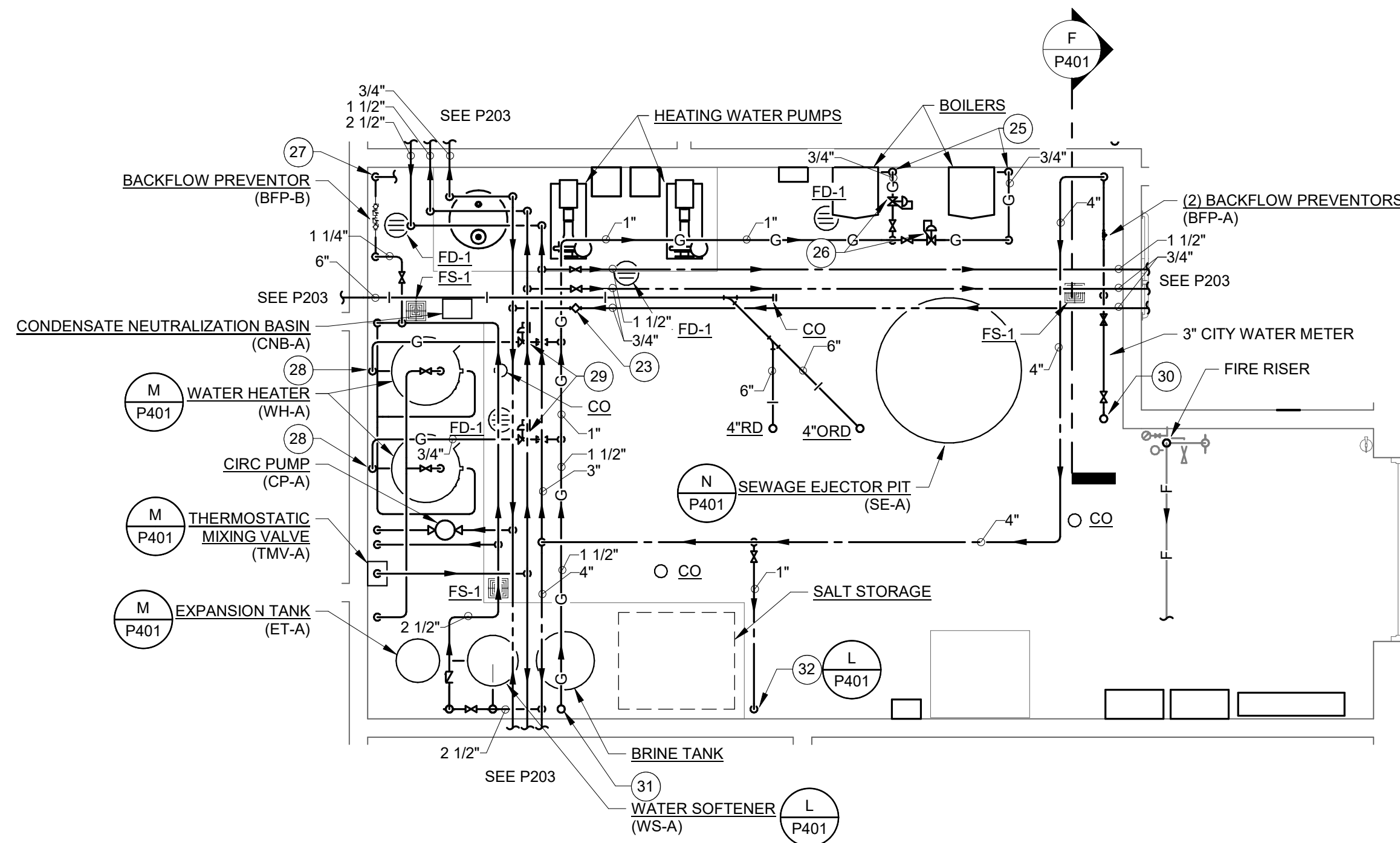
2022060



OUTBUILDING FLOOR PLAN - PLUMBING UNDERSLAB

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

SEE CIVIL DRAWINGS
FOR CONTINUATION



OUTBUILDING MECHANICAL ROOM - PLUMBING

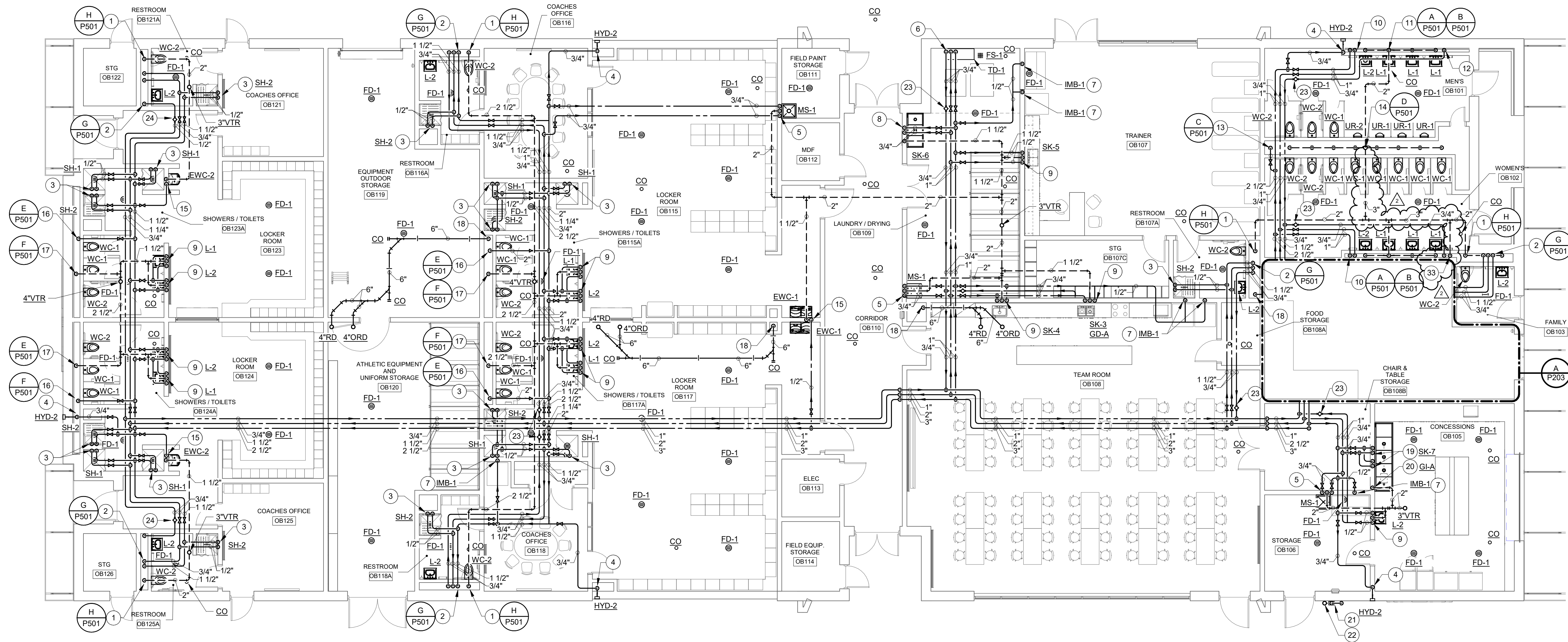
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

- SEE PM001 FOR GENERAL NOTES.
- PAINT ALL EXTERIOR GAS PIPING TO MATCH BUILDING. SEE ARCHITECTURAL DRAWINGS FOR COLOR.

PLAN NOTES:

- 1 1/2" COLD WATER AND 3/4" HOT WATER DOWN. 3/4" HOT WATER RETURN UP.
- 4" WASTE DOWN. 2" VENT UP.
- 1/2" COLD WATER AND 1/2" HOT WATER DOWN.
- 3/4" COLD WATER DOWN.
- 3/4" COLD WATER AND 3/4" HOT WATER DOWN. 2" VENT FROM BELOW.
- 3/4" COLD WATER AND 3/4" HOT WATER DOWN. 3/4" HOT WATER RETURN UP.
- 1/2" COLD WATER DOWN.
- 3/4" COLD WATER, 3/4" HOT WATER, AND 2" WASTE DOWN. 1 1/2" VENT UP.
- 1/2" COLD WATER, 1/2" HOT WATER, AND 2" WASTE DOWN. 1 1/2" VENT UP.
- 1" COLD WATER AND 1" HOT WATER DOWN.
- 1 1/2" WASTE DOWN. 2" VENT UP.
- 3/4" HOT WATER RETURN UP.
- 2 1/2" COLD WATER DOWN.
- 4" WASTE DOWN. 4" VENT UP THROUGH ROOF.
- 1/2" COLD WATER AND 2" WASTE DOWN. 1 1/2" VENT UP.
- 2" COLD WATER DOWN.
- 4" WASTE DOWN. 2 1/2" VENT UP.
- 6" STORM DOWN.
- 3/4" COLD WATER AND 3/4" HOT WATER DOWN.
- 2" WASTE DOWN. 2" VENT UP.
- GAS METER ASSEMBLY. SIZED FOR 1,510,000 BTU AT 2PSI OUTLET.
- 1 1/2" GAS UP.
- BALANCE VALVE: 0.5 GPM.
- BALANCE VALVE: 1 GPM.
- 3/4" GAS DOWN TO BOILER. PROVIDE SHUT-OFF VALVE, UNION AND DIRT LEG.
- PRESSURE REGULATING VALVE SIZED FOR 285,000 BTU AT 2PSI INLET AND 11" W.C. OUTLET.
- 1 1/4" COLD SOFT WATER UP. ROUTE TO MAKE-UP WATER CONNECTION. SEE M-SERIES DRAWINGS.
- 3/4" GAS DOWN TO WATER HEATER. PROVIDE SHUT-OFF VALVE, UNION AND DIRT LEG.
- PRESSURE REGULATING VALVE SIZED FOR 120,000 BTU AT 2PSI INLET AND 11" W.C. OUTLET.
- 4" COLD WATER FROM BELOW.
- 1 1/2" GAS FROM ABOVE.
- 1" COLD WATER DOWN. PROVIDE VERTICAL SHUT-OFF VALVE AND COMPRESSED AIR QUICK DISCONNECT FOR BLOW DOWN OF COLD WATER PIPING TO PRESS BOX.
- 3" VENT FROM BELOW.

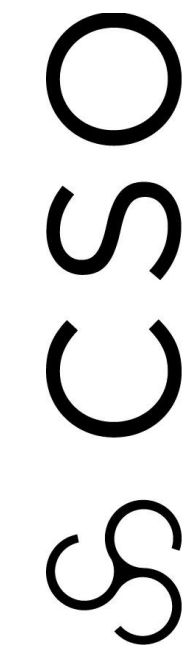


OUTBUILDING FLOOR PLAN - PLUMBING

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



Hamilton Heights
School Corporation



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PROJECT:
HAMILTON HEIGHTS SCHOOL
CORPORATION
HAMILTON HEIGHTS HIGH SCHOOL
PHASE 2 PROJECTS
25802 IN-19 Site 2, Arcadia, IN 46030

SCOPE DRAWINGS:
These drawings indicate the general scope of the project. The drawings are not intended to be a contract. The drawings are not intended to be a contract. The drawings are not intended to be a contract. The drawings are not intended to be a contract.

REVISIONS:
2 Addendum #3 2024-03-04

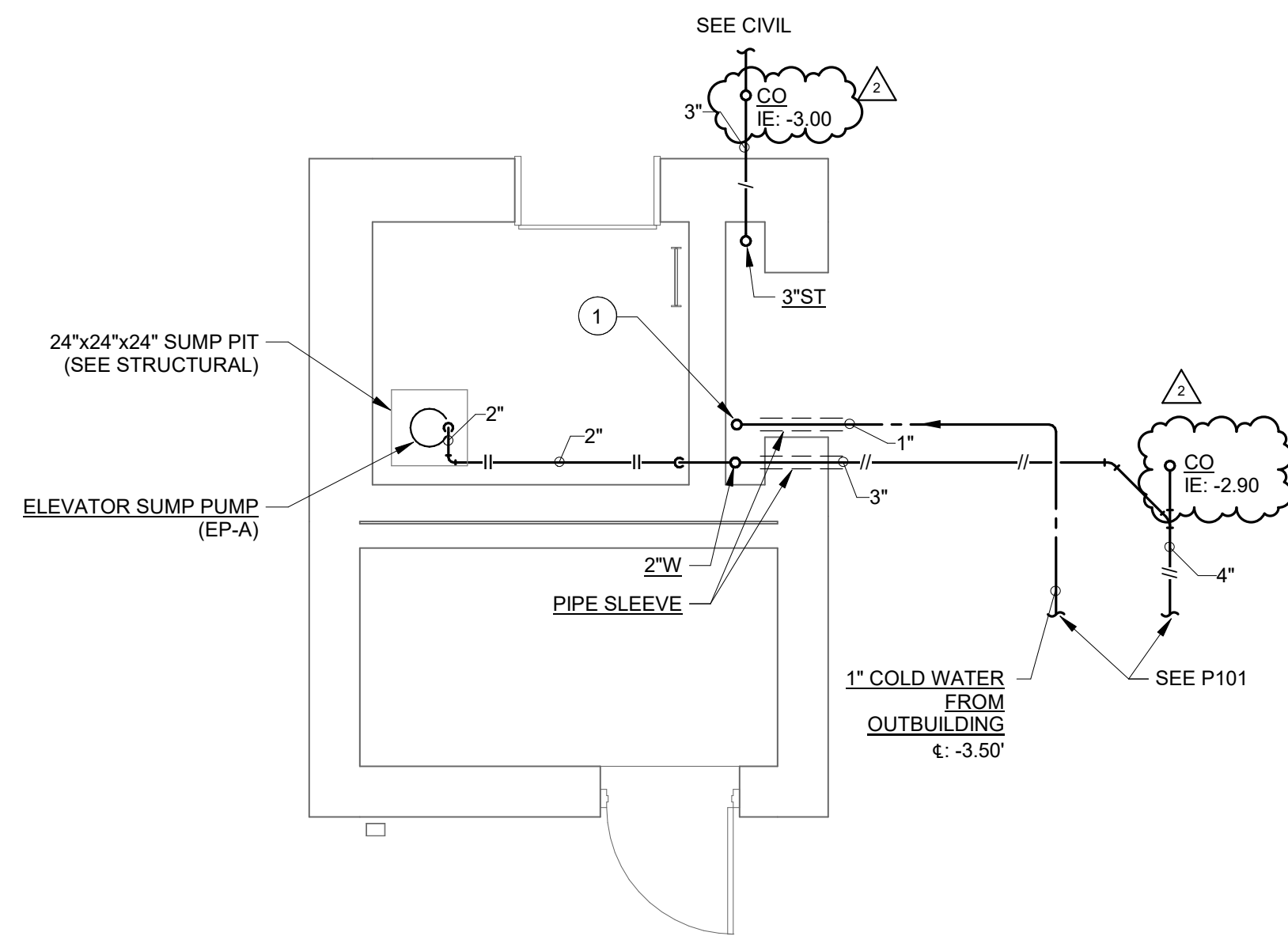
ISSUE DATE DRAWN BY CHECKED BY
02/08/2024 AMB DJU

DRAWING TITLE:
OUTBUILDING
FLOOR PLANS -
PLUMBING

CERTIFIED BY:
JOSEPH J. DIMOND
No. 12100624
STATE OF INDIANA
PROFESSIONAL ENGINEER
Daniel J. Dimond
02/08/2024

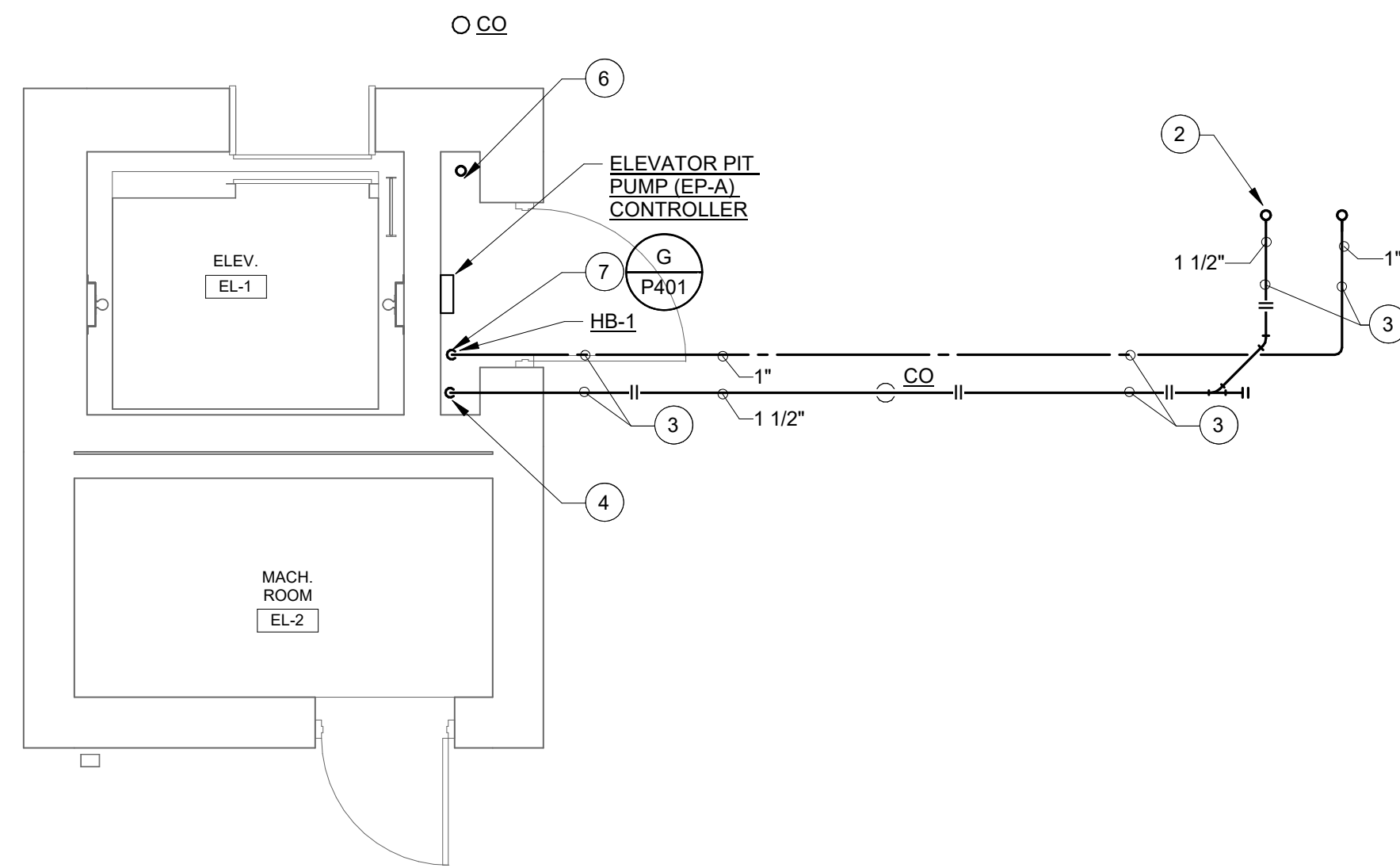
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P203

PROJECT NUMBER
2022060



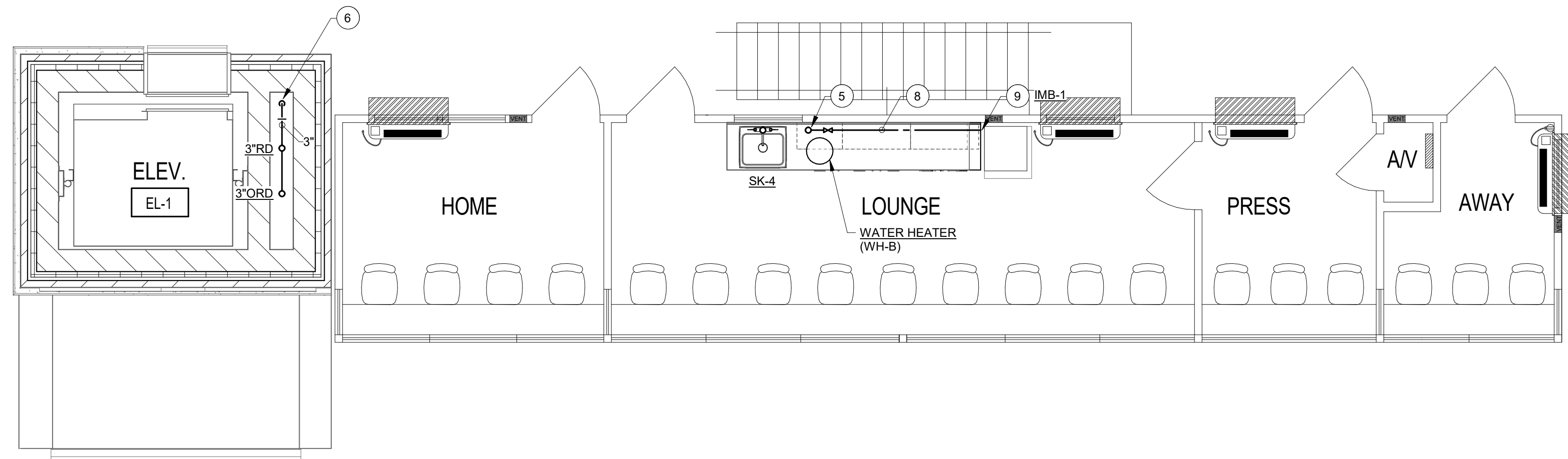
A UNDERSLAB PRESS BOX PLAN - PLUMBING

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



B GROUND LEVEL PRESS BOX PLAN - PLUMBING

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



C PRESS BOX PLAN - PLUMBING

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

RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

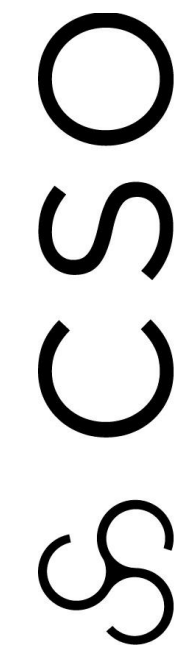
- SEE PM001 FOR GENERAL NOTES.

PLAN NOTES:

- 1" COLD WATER UP.
- 1" COLD WATER UP. 1 1/2" WASTE FROM ABOVE.
- HEAT TRACE DOMESTIC WATER AND WASTE PIPING UNDER PRESS BOX AREA.
- 1 1/2" WASTE PIPING DOWN.
- 1" COLD WATER FROM BELOW. ROUTE 1/2" COLD WATER TO WATER HEATER AND SK-1. 1 1/2" WASTE DOWN. PROVIDE 1 1/2" AIR ADMITTANCE VALVE IN SINK CABINET.
- 3" STORM DOWN.
- 1" COLD WATER FROM BELOW. PROVIDE VERTICAL SHUT-OFF VALVE FOR DRAIN DOWN.
- SLOPE PIPING BACK TO VERTICAL WATER SUPPLY.
- 1/2" COLD WATER TO ICE MAKER BOX.



Hamilton Heights
School Corporation



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PROJECT:
HAMILTON HEIGHTS SCHOOL
CORPORATION
HAMILTON HEIGHTS HIGH SCHOOL
PHASE 2 PROJECTS
25802 IN-19 Site 2, Arcadia, IN 46030

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of mechanical design concepts, the arrangement of equipment, mechanical and electrical systems. The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:
2 Addendum #3 2024-03-04

ISSUE DATE	DRAWN BY	CHECKED BY
02/08/2024	AMB	DJU

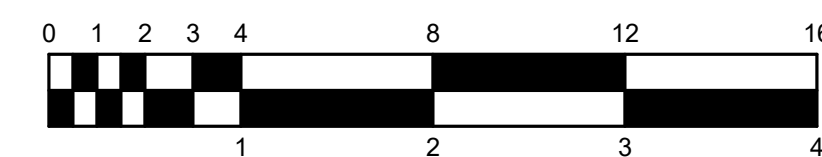
DRAWING TITLE:
PRESS BOX
PLANS -
PLUMBING

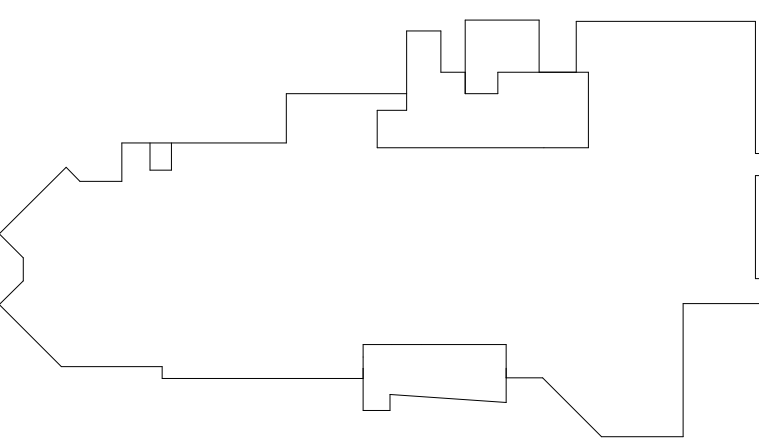
CERTIFIED BY:

02/08/2024

DRAWING NUMBER
P204

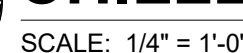
PROJECT NUMBER
2022060





1. INSTALL NEW 6"Ø FENCING AROUND CHILLER LOCATION. MATCH EXISTING CHAIN LINK FENCE CONSTRUCTION.
2. 4" VALVE AND CAP FOR FUTURE ADDITION.
3. REMOVE FLOW METER READOUT. MOUNT ON WALL AT 5'-0" A.F.F.
4. RE-INSTALL PUH AND EXTEND HS & HR PIPING TO APPROXIMATELY THIS LOCATION.
5. PROVIDE VISUAL ALARM CONNECTION TO REFRIGERANT MONITORING SYSTEM. PROVIDE SIGNAGE NEXT TO ENTRY THAT READS AS FOLLOWS: "IF LIGHT IS ON, DO NOT ENTER MECHANICAL ROOM." SIGN SHALL HAVE 34" BLACK LETTERS ON WHITE BACKGROUND. MOUNT ON WALL ADJACENT TO LIGHT. VERIFY LOCATIONS WITH OWNER.
6. EXISTING HONEYWELL 301EM REFRIGERANT MONITOR SYSTEM. EXPAND TO INCLUDE ADDITIONAL REFRIGERANT SENSOR COMPARTMENT WITH CH2. EXTENDING WIRING TO NEW SENSOR LOCATION.

1. INSTALL NEW 6"Ø FENCING AROUND CHILLER LOCATION. MATCH EXISTING CHAIN LINK FENCE CONSTRUCTION.
2. 4" VALVE AND CAP FOR FUTURE ADDITION.
3. REMOVE FLOW METER READOUT. MOUNT ON WALL AT 5'-0" A.F.F.
4. RE-INSTALL PUH AND EXTEND HS & HR PIPING TO APPROXIMATELY THIS LOCATION.
5. PROVIDE VISUAL ALARM CONNECTION TO REFRIGERANT MONITORING SYSTEM. PROVIDE SIGNAGE NEXT TO ENTRY THAT READS AS FOLLOWS: "IF LIGHT IS ON, DO NOT ENTER MECHANICAL ROOM." SIGN SHALL HAVE 34" BLACK LETTERS ON WHITE BACKGROUND. MOUNT ON WALL ADJACENT TO LIGHT. VERIFY LOCATIONS WITH OWNER.
6. EXISTING HONEYWELL 301EM REFRIGERANT MONITOR SYSTEM. EXPAND TO INCLUDE ADDITIONAL REFRIGERANT SENSOR COMPARTMENT WITH CH2. EXTENDING WIRING TO NEW SENSOR LOCATION.





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R.E. Dimond
and Associates, Inc.

PROJECT:
HAMILTON HEIGHTS SCHOOL
CORPORATION
HAMILTON HEIGHTS HIGH SCHOOL
PHASE 2 PROJECTS
25802 IN-19 Site 2 Arcadia IN 46030

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

The drawings do not necessarily indicate or describe work required for full performance and completion of the requirements of the Contract.


On the basis of the general scope indicated or described, the Contractor shall:

REVISIONS:		
2	Addendum #3	2024-03-04

ISSUE DATE	DRAWN BY	CHECKED BY
02/08/2024	MJE/SDF	DJU

DRAWING TITLE:
**CONTROLS -
CHILLED WATER
SCHEMATIC**

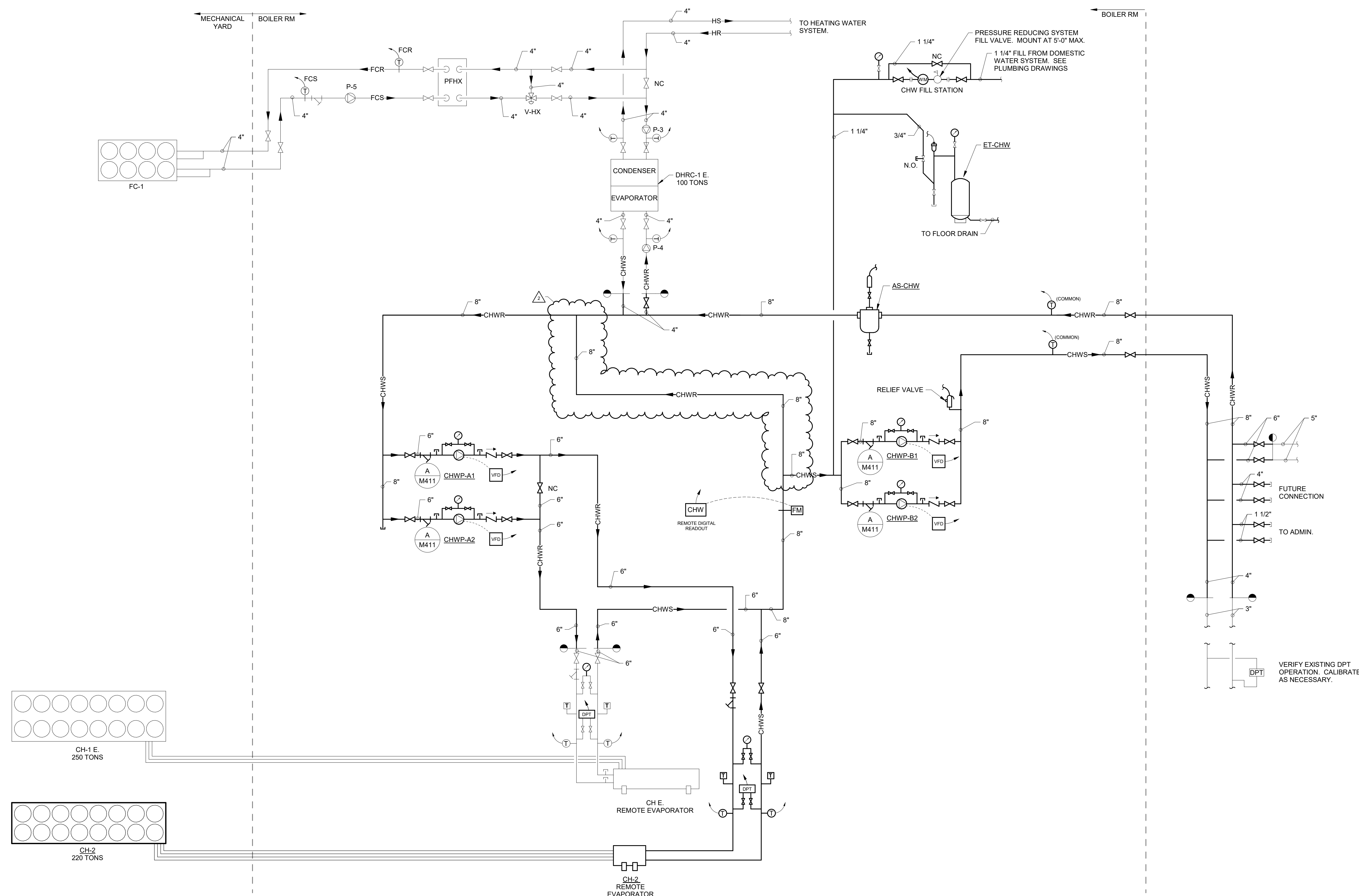
CERTIFIED BY:



02/08/2024

DRAWING NUMBER
M703

PROJECT NUMBER
2022060



CHILLED WATER SYSTEM SCHEMATIC

CONTROL POINTS LIST				
ITEM	SIGNAL TYPE			
TYPICAL CHILLER (CH) *	DI	AI	AO	DO
CHWS TEMPERATURE		1		
CHWR TEMPERATURE		1		
CHILLED WATER FLOW SWITCH (PROOF OF FLOW) **	1			
REMOTE START/STOP				1
CHILLER STATUS	1			
CHILLED WATER DIFFERENTIAL PRESSURE TRANSMITTER		1		
TROUBLE / ALARM	1			

* BACKNET INTERFACE PROVIDED WITH CHILLERS

** PROVIDED BY CHILLER MANUFACTURER

CONTROL POINTS LIST				
ITEM	SIGNAL TYPE			
CHILLED WATER SYSTEM	DI	AI	AO	DO
FLOW METER (FM)		1		
BUILDING CHWS TEMPERATURE (COMMON)		1		
BUILDING CHWR TEMPERATURE (COMMON)		1		
EXISTING CHW DIFFERENTIAL PRESSURE TRANSMITTERS		1		
REFRIGERANT MONITOR STATUS	1			
CHILLER ROOM EXHAUST FAN START / STOP				1
CHILLER/BOILER ROOM SPACE TEMPERATURE				1
REFRIGERANT MONITOR SYSTEM STATUS/ALARM	1			

CONTROL POINTS LIST				
ITEM	SIGNAL TYPE			
TYPICAL CHILLED WATER PUMP (CHWP)	DI	AI	AO	DO
START/STOP				1
VARIABLE FREQUENCY DRIVE (VFD) CONTROL			1	
CURRENT SENSOR (STATUS)		1		

CHILLED WATER SYSTEM SEQUENCE

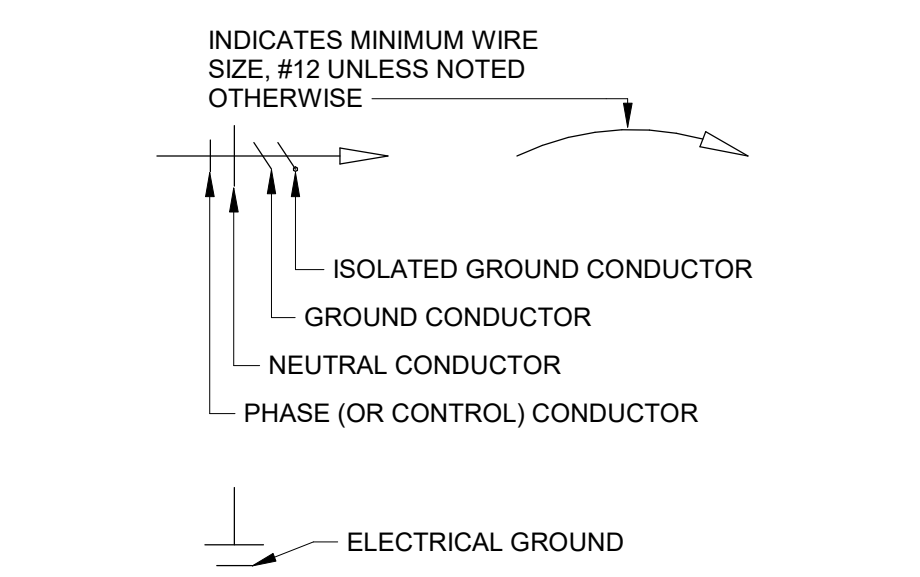
1. THE CHILLED WATER SYSTEM CONSISTS OF TWO (2) AIR-COOLED CHILLERS, AND ONE (1) WATER-COOLED DEDICATED HEAT RECOVERY CHILLER WITH A DECOUPLED FLUID COOLER, AND CHILLED WATER PUMPS. AIR-COOLED CHILLERS ARE UTILIZED IN A PRIMARY-SECONDARY PUMPING CONFIGURATION. THE DHRP IS UTILIZED IN A SIDESTREAM CONFIGURATION. REFER TO CHILLED WATER SCHEMATIC.
2. THE DEDICATED HEAT RECOVERY CHILLER IS EXISTING TO REMAIN. SEQUENCE OF OPERATION SHALL REMAIN AS IS.
3. BUILDING AUTOMATION SYSTEM (BAS) SHALL COMMUNICATE DIRECTLY WITH CONTROLS MOUNTED ON AND PROVIDED BY CHILLER MANUFACTURER. ALL CHILLER CONTROLS SHALL BE IN CONDITIONS SHALL BE CONTROLLABLE AND/OR READABLE THRU THE BAS.
4. CHILLED WATER SYSTEM SHALL BE INDEXED ON WHENEVER THE AMBIENT TEMPERATURE RISES ABOVE 50°F (ADJ) AMBIENT TEMPERATURE OR WHEN OVERRIDDEN BY THE OWNER DURING THE OWNER DETERMINED MONTHS OF OPERATION.
5. THE CHILLERS SHALL OPERATE FROM THEIR OWN CONTROL SEQUENCES AND SAFETIES AFTER BUILDING AUTOMATION SYSTEM (BAS) ENABLES THEM.

ABBREVIATIONS

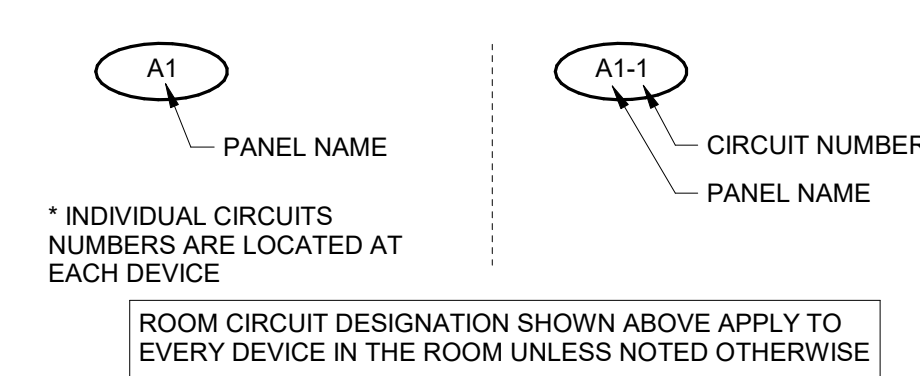
A	AMPERE	MDF	MAIN DISTRIBUTION FRAME
AC	ALTERNATING CURRENT; ARMORED CABLE	MDP	MAIN DISTRIBUTION PANELBOARD
ADJ	ADJUSTABLE	ME	MEDIUM
AF	AMPERE FUSE; AMPERE FRAME	MFG	MANUFACTURING
AFF	ABOVE FINISHED FLOOR	MFR	MANUFACTURER
AFG	ABOVE FINISHED GRADE	MH	MANHOLE; METAL HALIDE; MAN-HOUR
AL	ALUMINUM	MI	MINERAL INSULATED
ALCR	AUTOMATIC LOAD CONTROL RELAY	MIC	MICROPHONE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MM	MINIMUM; MINUTE
ASYM	ASYMMETRICAL	MISC	MISCELLANEOUS
AT	AMPERE TRIP	MLD	MAIN LUG DISCONNECT
ATS	AUTOMATIC TRANSFER SWITCH	MOC	MODUL
AUX	AUXILIARY	MTD	MOUNTED
AVG	AVERAGE	MTS	MANUAL TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE	MV	MEGAVOLT; MEDIUM VOLTAGE
		MVA	MEGAVOLT AMPERES
BATT	BATTERY	MVAR	MEGAVOLT AMPERES REACTIVE
BPS	BOLTED PRESSURE SWITCH	MW	MEGAWATT
C	CONDUIT; CENTRIGRADE	N	NEUTRAL
CB	CIRCUIT BREAKER	N/A	NOT APPLICABLE
CCTV	CLOSED CIRCUIT TELEVISION	NC	NORMALLY CLOSED
CD	CANDELA	NEC	NATIONAL ELECTRICAL CODE
CF	CUBIC FEET	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CFL	COMPACT FLUORESCENT	NEF	NON-FUSED
CIRC	CIRCUIT	NFS	NON-FUSED DISCONNECT
CLO	CLOSER	NIC	NOT IN CONTRACT
CMU	CONCRETE MASONRY UNIT	NIGHT	NIGHT LIGHT
COL	COLUMN	NM	NON-METALLIC SHEATHED CABLE
COMB	COMBINATION	NMS	NUMBER, NORMALLY OPEN
CONC	CONCRETE	NT	NOT TO SCALE
COND	CONDUCTOR	O&P	OVERHEAD AND PROFIT
CONT	CONTINUOUS; CONTINUED	OC	ON CENTER; OVERCURRENT
CP	CONTROL PANEL	OD	OUTSIDE
CPT	CONTROL POWER TRANSFORMER	OH	OVERHEAD
CT	CURRENT TRANSFORMER	OL	OVERLOAD
CU	COPPER	OS&Y	OUTSIDE SCREW AND YOKE
CU FT	CUBIC FOOT	OZ	OUNCE
CY	CUBIC YARD		
CYL	CYLINDER		
D	DEEP; DEPTH	P	POLE; PULL
DB	DECEBEL; DIRECT BURIED	PA	PUBLIC ADDRESS
DC	DIRECT CURRENT	PB	PUSH BUTTON; PULL BOX
DDC	DIRECT DIGITAL CONTROL	PC	PHOTOCELL
DF	DUAL FACE	PED	PEDESTAL
DIA	DIAMETER	PF	POWER FACTOR
DIAG	DIAGONAL	PH	PHASE
DISC	DISCONNECT	PIV	PISTON INDICATOR VALVE
DISTR	DISTRIBUTION	PL	PANEL LIGHT
DN	DOWN	PN	PANEL
DPT	DOUBLE POLE; DOUBLE THROW	PR	PAIR
DPST	DOUBLE POLE, SINGLE THROW	PRI	PRIMARY
DWG	DRAWING	PSF	POUNDS PER SQUARE FOOT
DX	DIRECT EXPANSION	PSI	POUNDS PER SQUARE INCH
		PWG	POUNDS PER SQUARE INCH GAUGE
E	EAST; EXISTING	PT	POTENTIAL TRANSFORMER
EA	ELECTRIC BASEBOARD RADIATION	PU	PER UNIT
EBR	ELECTRIC BALLAST	PVC	POLYVINYL CHLORIDE
EC	ELECTRICAL CONTRACTOR	PWR	POWER
ECG	EQUIPMENT GROUNDING CONDUCTOR		
ELEC	ELECTRICAL	QUAN: QTY	QUANTITY
ELEV	ELEVATOR; ELEVATION	R	RESISTANCE; RELOCATED
EM	EMERGENCY	RECEPT	RECEPTACLE
EMS	ENERGY MANAGEMENT SYSTEM	REFR	REFRIGERATOR
EMT	ELECTRICAL METALLIC TUBING	REQD	REQUIRED
ENCL	ENCLOSURE	RGS	RIGID GALVANIZED STEEL
ENG	ENGINE	RHS	RUNNING LOAD AMPS
EQUIP	EQUIPMENT	RL	ESTIMATED
EST	ESTIMATE	RMC	RIGID METALLIC CONDUIT
EW	ELECTRIC WATER COOLER	RMS	ROOM MEAN SQUARE
EXH	ELECTRIC WATER HEATER	RNC	RIGID NON-METALLIC CONDUIT
EXP	EXPOSED	RT	RAINTIGHT
EXT	EXTERIOR		
F	FUSED; FAHRENHEIT	SCCR	SHORT-CIRCUIT CURRENT-RATING
FA	FIRE ALARM	SCHED	SCHEDULE
FAA	FIRE ALARM ANNUNCIATOR	SCR	SHORT CIRCUIT RATING
FACP	FIRE ALARM CONTROL PANEL	SE	SECONDARY
FD	FUSED DISCONNECT	SEC	SECONDARY
FEDR	FEDER	SP	SINGLE POLE
FIN	FINISHED	SPD	SURGE PROTECTIVE DEVICE
FIXT	FIXTURE	SPT	SINGLE POLE, DOUBLE THROW
FLA	FULL LOAD AMPS	SPKR	SPEAKER
FLOR	FLOOR	SQ	SQUARE
FLUOR	FLUORESCENT	SQ FT	SQUARE FEET
FM	FREQUENCY MODULATION; FACTORY MUTUAL	SQ IN	SQUARE INCH
FT	FOOT; FEET	SS	STAINLESS STEEL; SAFETY SWITCH
FURN	FURNISHED	STD	STANDARD
FVNR	FULL VOLTAGE NON-REVERSING	SURF	SURFACE
		SWD	SWITCH
G	GROUND	SWD	SWITCHING DUTY
GA	GAUGE	SWB	SWITCHBOARD
GALV	GALVANIZED	SYD	SQUARE YARD
GC	GENERAL CONTRACTOR	SYM	SYMMETRICAL
GEN	GENERATOR		
GFCI, GFI	GROUND FAULT CIRCUIT INTERRUPTER	T	TEMPERATURE; TRANSFORMER
GFP	GROUND FAULT PROTECTION	TC	TERMINAL BLOCK
GND	GROUND	TCC	TEMPERATURE CONTROLS CONTRACTOR
GRS, GRC	GALVANIZED RIGID STEEL CONDUIT	TCP	TEMPERATURE CONTROL PANEL
		TD	TIME DELAY
H	HIGH	TELE	TELEPHONE
HD	HEAVY DUTY; HIGH DEFINITION	TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
HG	MERCURY	THD	TOTAL HARMONIC DISTORTION; THREAD
HOA	HAND-OFF-AUTOMATIC	TMBG	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
HORZ	HORIZONTAL	TMR	TAMPER RESISTANT
HPS	HORSEPOWER	TTB	TELEPHONE TERMINAL BOARD
HPS	HIGH PRESSURE SODIUM	TV	TELEVISION
HRS/DAY	HOURS PER DAY	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
HT	HEIGHT	TYP	TYPICAL
HV	HIGH VOLTAGE		
HZ	HERTZ		
ID	INSIDE DIAMETER	UC	UNDER (CABINET OR COUNTER)
IDF	INTERMEDIATE DISTRIBUTION FRAME	UF	UNDERGROUND FEEDER
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS	UG	UNDERGROUND
IG	ISOLATED GROUND	UHF	ULTRA-HIGH FREQUENCY
IMC	INTERMEDIATE METAL CONDUIT	UL	UNDERWRITERS LABORATORY
IMP	IMPEDANCE	UNFIN	UNFINISHED
IN	INCH	UNO	UNLESS NOTED OTHERWISE
INCN	INCANDESCENT	UNT	UTILITY
INSUL	INSULATION; INSULATED	UTP	UNSHIELDED TWISTED PAIR
INT	INTERIOR; INTERNAL		
INV EL	INVERTED ELEVATION	V	VOLT
		VA	VOLT AMPERES
J	JOULE; JUNCTION	VAR	VOLT AMPERES REACTIVE
JB	JUNCTION BOX	VERT	VERTICAL
		VFD	VARIABLE FREQUENCY DRIVE
K	THOUSAND	VHF	VERY HIGH FREQUENCY
KCMIL	THOUSAND CIRCULAR MILS	VOL	VOLUME
KHZ	KILOHERTZ		
KK	KIRK KEY	W	WIRE; WATT; WIDE
KP	KEYPAD	W	WITH
KV	KILOVOLT	WAP	WIRELESS ACCESS POINT
KVA	KILOVOLT AMPERE	WG	WIRE GUARD
KVAR	KILOVOLT AMPERE REACTIVE	WAT	WIREMESH (SURFACE RACEWAY)
KWH	KILOWATT	WP	WEATHERPROOF
KWH	KILOWATT-HOUR	WT	WEIGHT; WATERTIGHT
		XFMR	TRANSFORMER
L	LENGTH; LONG; LUMEN	XFER	TRANSFER
LB	POUND; ELL CONDUIT BODY		
LED	LIGHT EMITTING DIODE	Y	WYE
LF	LINEAR FOOT	-	DEGREE
LID	LAMP LUMEN DEPRECIATION	Δ	DELTA
LO	LOCK OUT	Ø	PHASE; DIAMETER
LRA	LOCKED ROTOR AMPS	%	PERCENT
LT	LIGHT, LIGHT-TIGHT	@	AT
LTV	LIGHTING	-	APPROXIMATELY
		-	FEEES
M	METER		
MA	MILLIAMPERE		
MAG STR	MAGNETIC STARTER		
MAN	MANUAL		
MAT	MATERIAL		
MATV	MASTER ANTENNA TELEVISION		
MAX	MAXIMUM		
MC	METAL CLAD CABLE; MOTOR CONTROLLER		
MCA	MINIMUM CIRCUIT AMPS		
MCB	MAIN CIRCUIT BREAKER		
MCC	MOTOR CONTROL CENTER		
MCCB	MOLDED CASE CIRCUIT BREAKER		
MCM	THOUSAND CIRCULAR MILS		
MCP	MOTOR CIRCUIT PROTECTOR		
MCS	MOTOR CIRCUIT SWITCH		

NOT ALL SYMBOLS ON THIS SHEET ARE USED IN THESE DOCUMENTS.

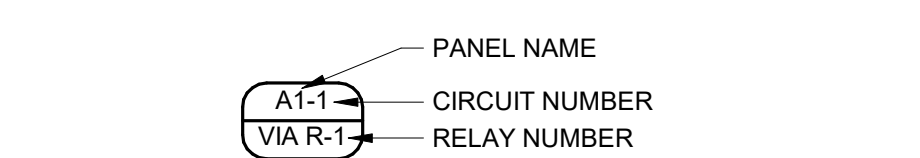
TYPICAL WIRING DESIGNATIONS



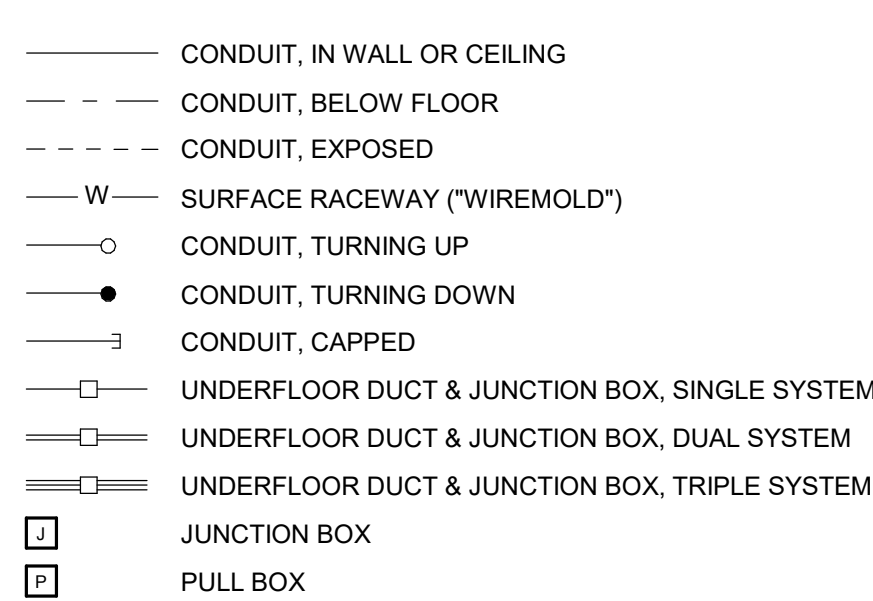
ROOM CIRCUIT DESIGNATIONS



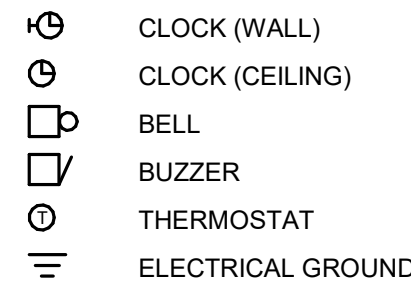
ROOM CIRCUIT DESIGNATIONS WITH RELAY NUMBER



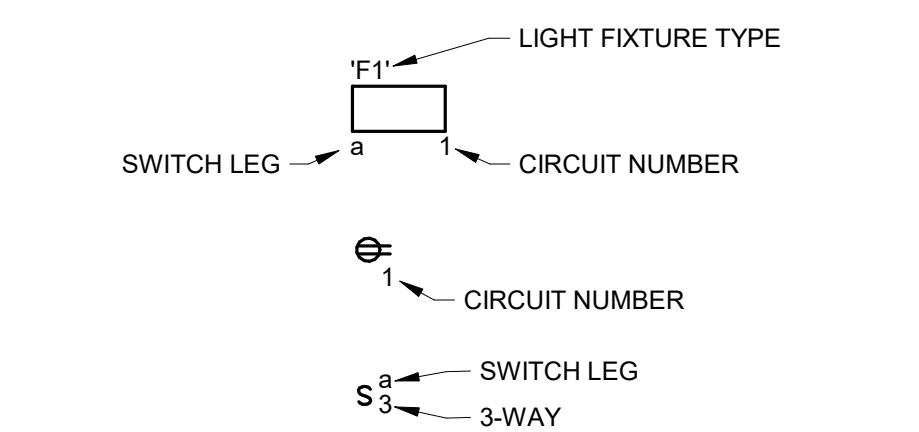
RACEWAYS



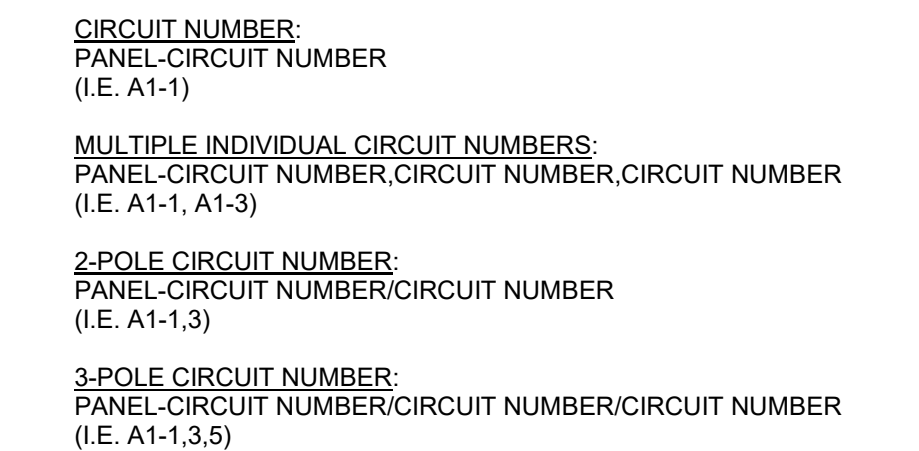
MISCELLANEOUS



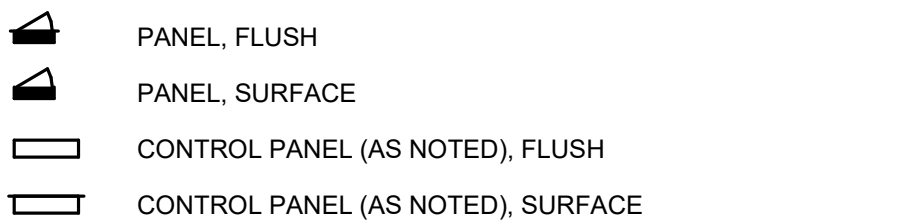
TYPICAL DEVICE DESIGNATIONS



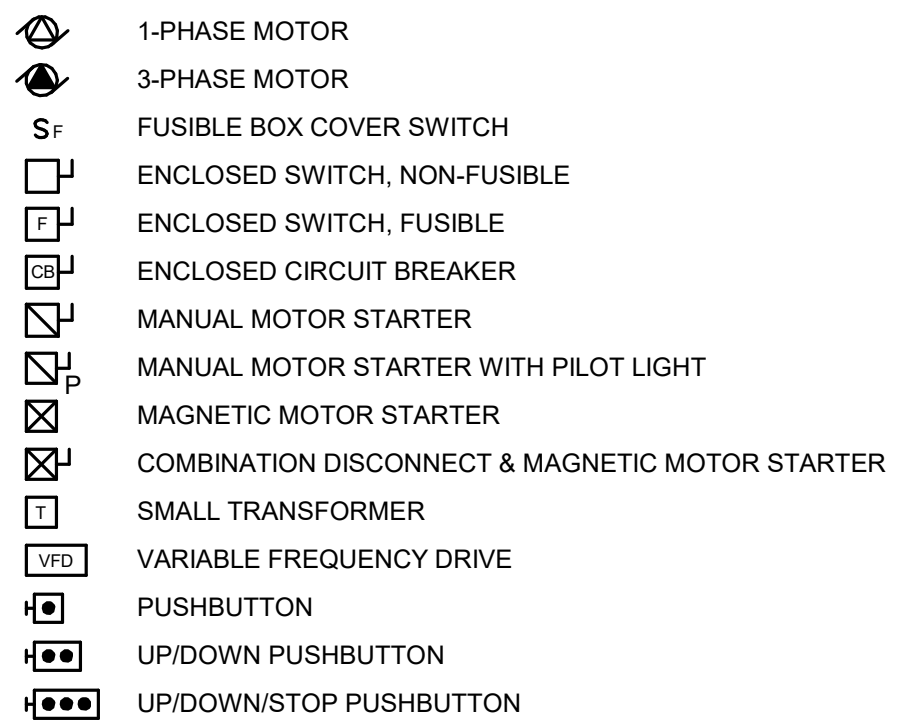
CIRCUIT DESCRIPTIONS



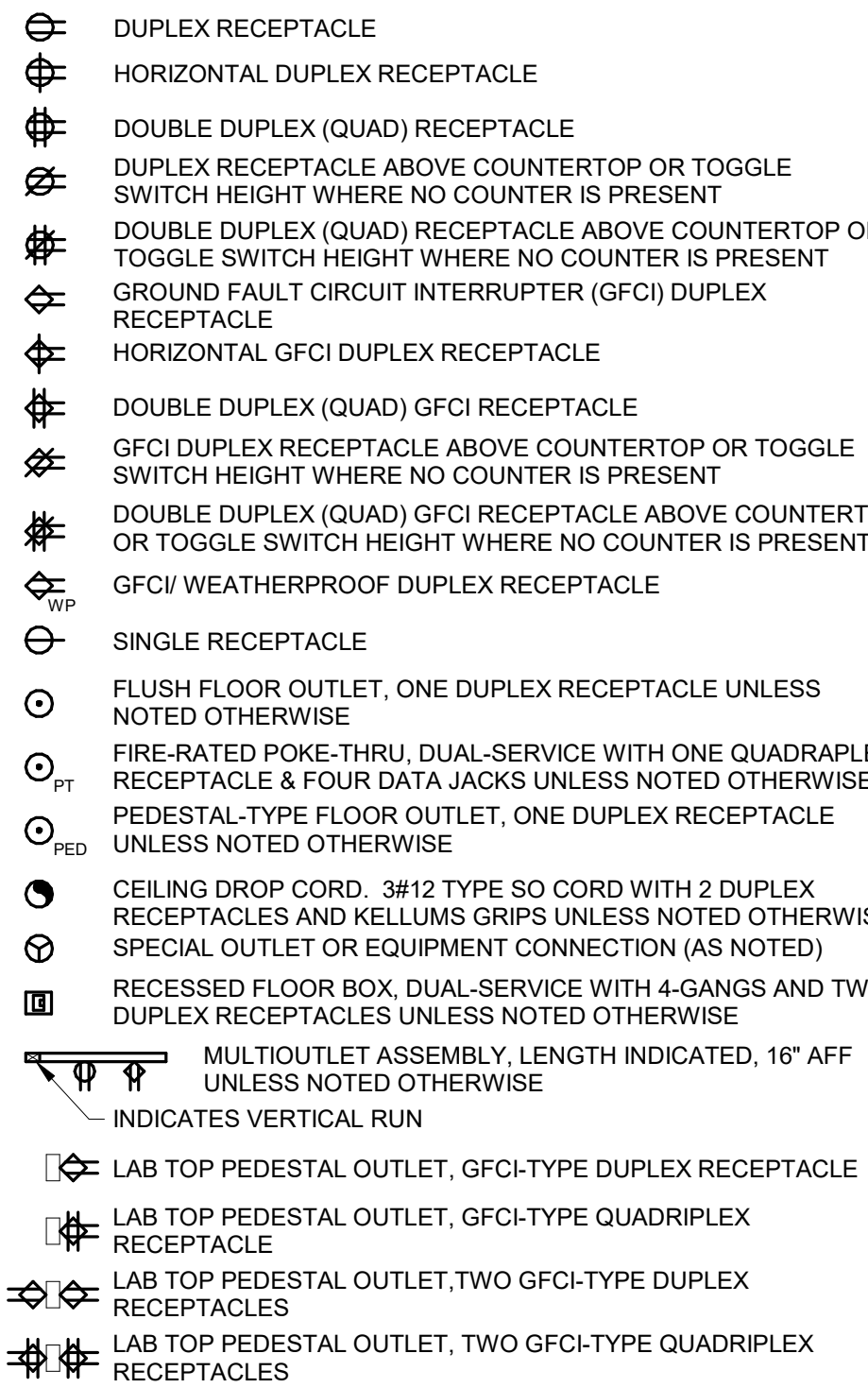
PANELS



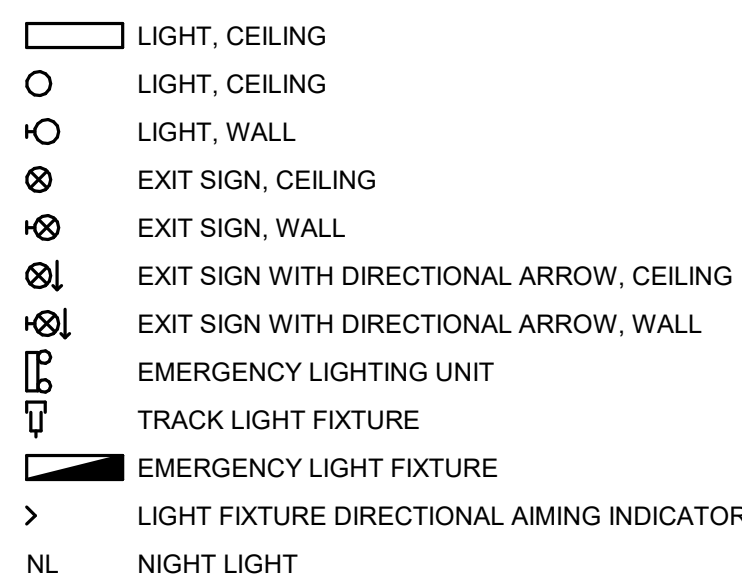
POWER EQUIPMENT



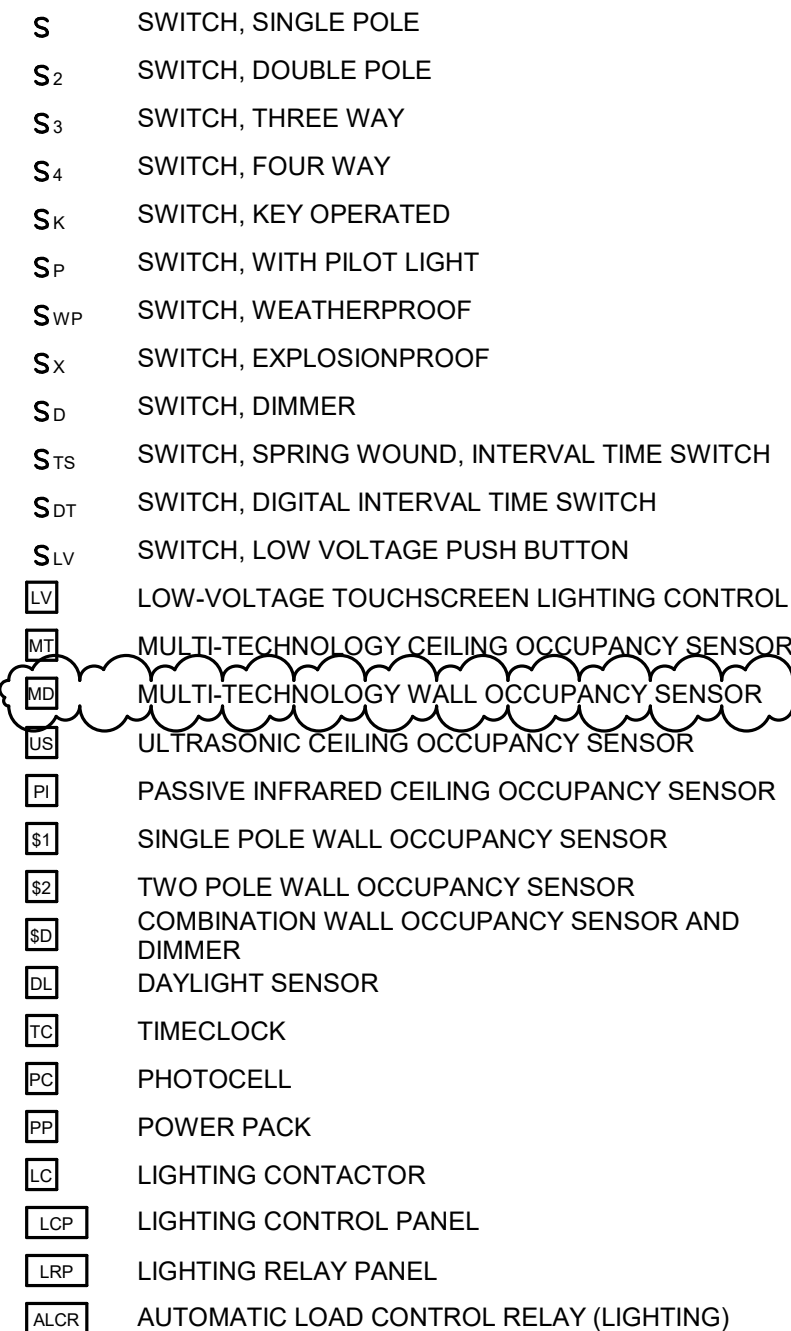
RECEPTACLES AND OUTLETS



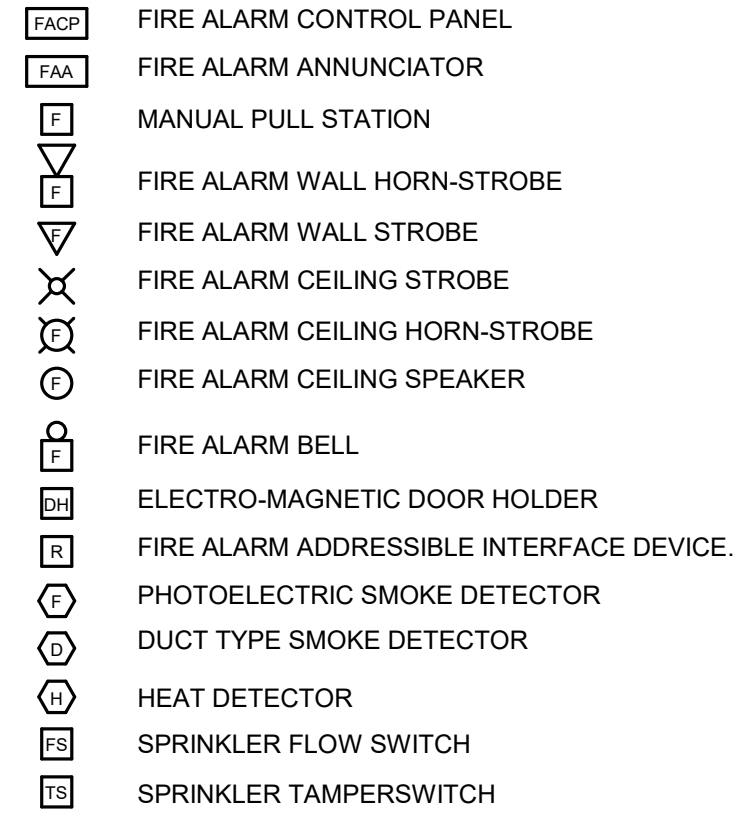
LIGHT FIXTURES



SWITCHES



FIRE ALARM SYSTEMS



GENERAL NOTES:

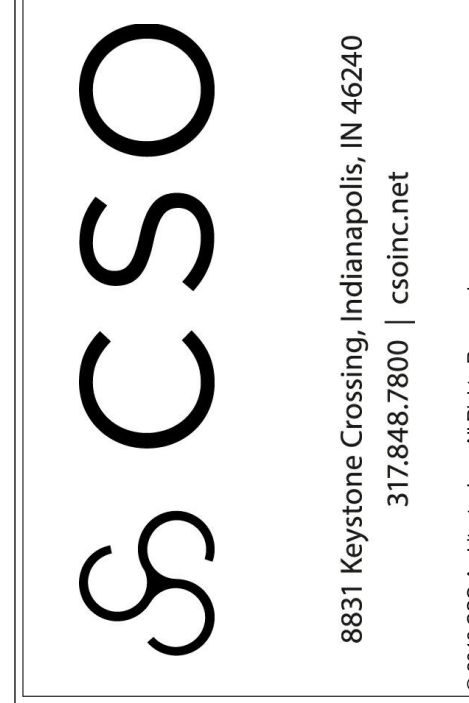
- COORDINATE LOCATIONS OF DEVICES TO BE INSTALLED IN CEILINGS WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO INSTALLATION.
- 120 VOLT CIRCUITS SHALL UTILIZE SEPARATE INDEPENDENT NEUTRAL CONDUCTORS. DO NOT SHARE NEUTRALS.
- CONTRACTOR SHALL COORDINATE WITH ALL TRADES. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR INCORRECT WORK, OR FOR INFRINGEMENT UPON OTHERS' WORK, DUE TO A LACK OF COORDINATION.
- DEVICES IN GENERAL SHALL BE CENTERED IN WALL SPACE IN WHICH THEY ARE INSTALLED OR THEY SHALL BE SPACED SYMMETRICALLY (FOR EXAMPLE, CENTER DEVICES WHEN MOUNTED ON FACE OF COLUMNS).
- COORDINATE AND VERIFY LOCATIONS OF DEVICES WITH BLOCK COURSING, FINISH MATERIALS, CASEWORK, ETC. PRIOR TO ROUGH-IN.
- WIRING TO RECEPTACLES ON DEDICATED CIRCUITS SHALL BE A MINIMUM #10 AWG UNLESS OTHERWISE NOTED.
- RECEPTACLES CONNECTED TO EMERGENCY CIRCUITS SHALL BE RED COLOR.
- WIRING SHALL BE MINIMUM #12 AWG IN 3/4" EMT CONDUIT UNLESS OTHERWISE NOTED OR REQUIRED.
- COORDINATE LOCATION OF RECEPTACLES AT ELECTRIC WATER COOLERS (EWC) WITH EWC MANUFACTURER. PROVIDE DUPLEX RECEPTACLE SO THAT IT IS CONCEALED BY EWC HOUSING.
- LOW VOLTAGE PLENUM-RATED CABLING (FIRE ALARM, LIGHTING CONTROL, ETC.) SHALL BE CONCEALED ABOVE ACCESSIBLE CEILINGS. FOR CABLES BEING ROUTED THROUGH AREAS WITH EXPOSED STRUCTURE OR INACCESSIBLE CEILINGS, INSTALL CABLES IN MINIMUM 1-INCH CONDUITS.
- REPLACE EXISTING BLANK COVERPLATES WITH NEW, FINISH MATERIAL TO MATCH THOSE USED FOR NEW DEVICES.
- DEVICE BOXES SHALL BE FLUSH MOUNTED AND RACEWAYS SHALL BE CONCEALED. CONTRACTOR SHALL CUT AND PATCH EXISTING WALLS WITH EXTREME CAUTION, SO AS TO MINIMIZE INVASIVENESS OF INSTALLATION. ROUTE RACEWAYS SO AS TO MINIMIZE THE AMOUNT OF CUTTING AND PATCHING REQUIRED. PATCHING SHALL COMPLY WITH ALL BID DOCUMENT REQUIREMENTS.
- WHERE SURFACE DEVICE BOXES ARE PERMITTED, DO NOT USE PLASTER RINGS. USE EXPOSED WORK COVERS INTENDED FOR THE PURPOSE.
- WHERE SURFACE CONDUIT OR EMT IS PERMITTED, DO NOT USE CONDUIT HANGERS LESS THAN 8-FEET AFF. USE ONE-OR TWO-HOLE STRAPS SO THAT NO SHARP EDGES PROTRUDE FROM THE WALL.
- EXISTING CONCEALED RACEWAYS AND DEVICE BOXES MAY BE REUSED IN PLACE IF DEEMED CODE COMPLIANT AND IN GOOD CONDITION. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION.
- PROVIDE 120V POWER CONNECTION TO MOTORIZED DAMPERS AT EXHAUST FANS.
- PROVIDE FLUSH BACK BOXES AND CONCEALED RACEWAYS FOR THERMOSTATS. SEE MECHANICAL DRAWINGS FOR LOCATIONS.
- A MAXIMUM OF THREE SINGLE-PHASE CIRCUITS SHALL BE INSTALLED IN A SINGLE CONDUIT.
- LOCATION OF LIGHT FIXTURES IN MECHANICAL AND EQUIPMENT ROOMS SHALL BE COORDINATED IN FIELD AND LOCATED TO PROVIDE THE BEST ILLUMINATION OF THE SPACE AND EQUIPMENT. COORDINATE WITH ENGINEER.
- COORDINATE EXACT LOCATION OF FLOOR OUTLETS AND OUTLETS AT TV LOCATIONS AND SIMILAR LOCATIONS PRIOR TO ROUGH-IN. OUTLETS AT TV LOCATIONS SHALL BE INSTALLED IN A RECESSED WALL BOX. SEE T-SERIES DRAWINGS.
- COORDINATE WORK WITH TELECOMMUNICATIONS DRAWINGS AND SPECIFICATIONS. SEE T-SERIES DRAWINGS FOR PATHWAYS AND ELECTRICAL WORK.
- PROVIDE FIRESTOPPING AT PENETRATIONS THROUGH FIRE-RATED CONSTRUCTION.
- COORDINATE CORE DRILLING WITH STRUCTURAL ENGINEER.
- CONTRACTOR SHALL COORDINATE OCCUPANCY SENSOR LOCATIONS AND ARRANGE FOR BEST OPERATION. PROVIDE HIGH-BAY OCCUPANCY SENSORS WHEN MOUNTED ABOVE 10'-0" AFF.
- DEVICES ON WALLS SHALL BE INDIVIDUALLY FED FROM ABOVE (I.E. DO NOT INSTALL RACEWAYS HORIZONTALLY IN WALL UNLESS APPROVED).
- INSTALL ABOVE-CEILING RACEWAYS AT LEAST 7-INCHES ABOVE CEILING TO ALLOW FOR REMOVAL OF CEILING TILES AND LIGHTS.
- DO NOT INSTALL RACEWAYS IN FLOOR SLABS. INSTALL RACEWAYS BELOW SLAB ON GRADE AT LEAST 6-INCHES BELOW BOTTOM OF SLAB. FEEDER CONDUITS SHALL BE AT LEAST 24-INCHES BELOW BOTTOM OF SLAB.
- UNLESS NOTED OTHERWISE, JUNCTION BOXES AND PULL BOXES SHALL BE LISTED AND LABELLED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.

GENERAL NOTES - DEMOLITION:

- FIELD VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING WORK. THESE DRAWINGS DO NOT SHOW ALL REQUIRED DEMOLITION WORK. SOME CONDITIONS MAY HAVE BEEN CONCEALED DURING FIELD SURVEYS.
- DEVICES AND EQUIPMENT SHOWN DASHED AND WITH HEAVY LINE WEIGHT ON DEMOLITION DRAWINGS SHALL BE REMOVED IN THEIR ENTIRETY, INCLUDING ALL WIRING TO SOURCE, UNLESS OTHERWISE NOTED.
- DISPOSAL OF DEMOLISHED MATERIALS SHALL COMPLY WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
- CONTRACTOR SHALL PROTECT EXISTING OWNER FACILITIES THAT ARE TO REMAIN DURING CONSTRUCTION. ANY FACILITIES DAMAGED OR DISCONNECTED BY CONTRACTOR SHALL BE IMMEDIATELY RESTORED TO PREVIOUS CONDITION.
- OWNER SHALL HAVE "RIGHT OF FIRST REFUSAL" FOR DEMOLISHED ITEMS. CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO BEGINNING WORK TO DETERMINE WHAT ITEMS THE OWNER MAY BE INTERESTED IN KEEPING. CONTRACTOR SHALL CAREFULLY REMOVE SUCH ITEMS AND DELIVER TO OWNERS DESIGNATED STORAGE AREA, FOR ITEMS DEEMED OBSOLETE BY THE OWNER. CONTRACTOR SHALL IMMEDIATELY REMOVE SUCH ITEMS FROM THE PREMISES, UNLESS OTHERWISE NOTED.
- FOR MECHANICAL EQUIPMENT BEING REMOVED, REMOVE ASSOCIATED DISCONNECTS, CONTROLLERS, WIRING, ETC. COMPLETE. VERIFY WITH MECHANICAL CONTRACTOR.
- FOR EQUIPMENT OR DEVICES BEING REMOVED FROM WALLS THAT WILL REMAIN, REMOVE EXISTING DEVICE BOX AND PATCH WALL UNLESS OTHERWISE REQUIRED OR INSTRUCTED. FINISH CONDITION SHALL SHOW NO INDICATION OF PREVIOUS INSTALLATION.
- PROVIDE ADEQUATE SUPPORT FOR EXISTING CABLING/RACEWAYS ABOVE CEILING AS REQUIRED. REMOVE OBSOLETE CABLING, WIRING, RACEWAYS, ETC.
- REMOVE ASSOCIATED ELECTRICAL FOR ANY EXISTING EQUIPMENT BEING REMOVED BY ANY TRADE. REFER TO ALL DRAWINGS.
- CONTRACTOR SHALL REMOVE EXISTING DEVICES ON WALLS BEING REMOVED, WHETHER DEVICES ARE SHOWN OR NOT, UNLESS OTHERWISE INSTRUCTED.
- COORDINATE SCHEDULING OF DEMOLITION WORK WITH OWNER AND TRADES.
- PATCH EXISTING HOLES THROUGH WALLS AND FLOORS WHERE EXISTING RACEWAYS OR CABLES ARE REMOVED.
- FOR DEMOLITION OF RECESSED PANELS AND SIMILAR EQUIPMENT, COORDINATE WALL PATCH WITH GENERAL CONTRACTOR PRIOR TO BEGINNING WORK.



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HAMILTON HEIGHTS SCHOOL
CORPORATION
HAMILTON HEIGHTS HIGH SCHOOL
PHASE 2 PROJECTS
25802 IN-19 Site 2, Arcadia, IN 46030

SCOPE DRAWINGS:
These drawings indicate the general scope of the project. The drawings are not intended to be a substitute for the design of structural, mechanical and electrical systems. The drawings are not intended to be a substitute for the design of the project. The drawings are not intended to be a substitute for the design of the project. The drawings are not intended to be a substitute for the design of the project.

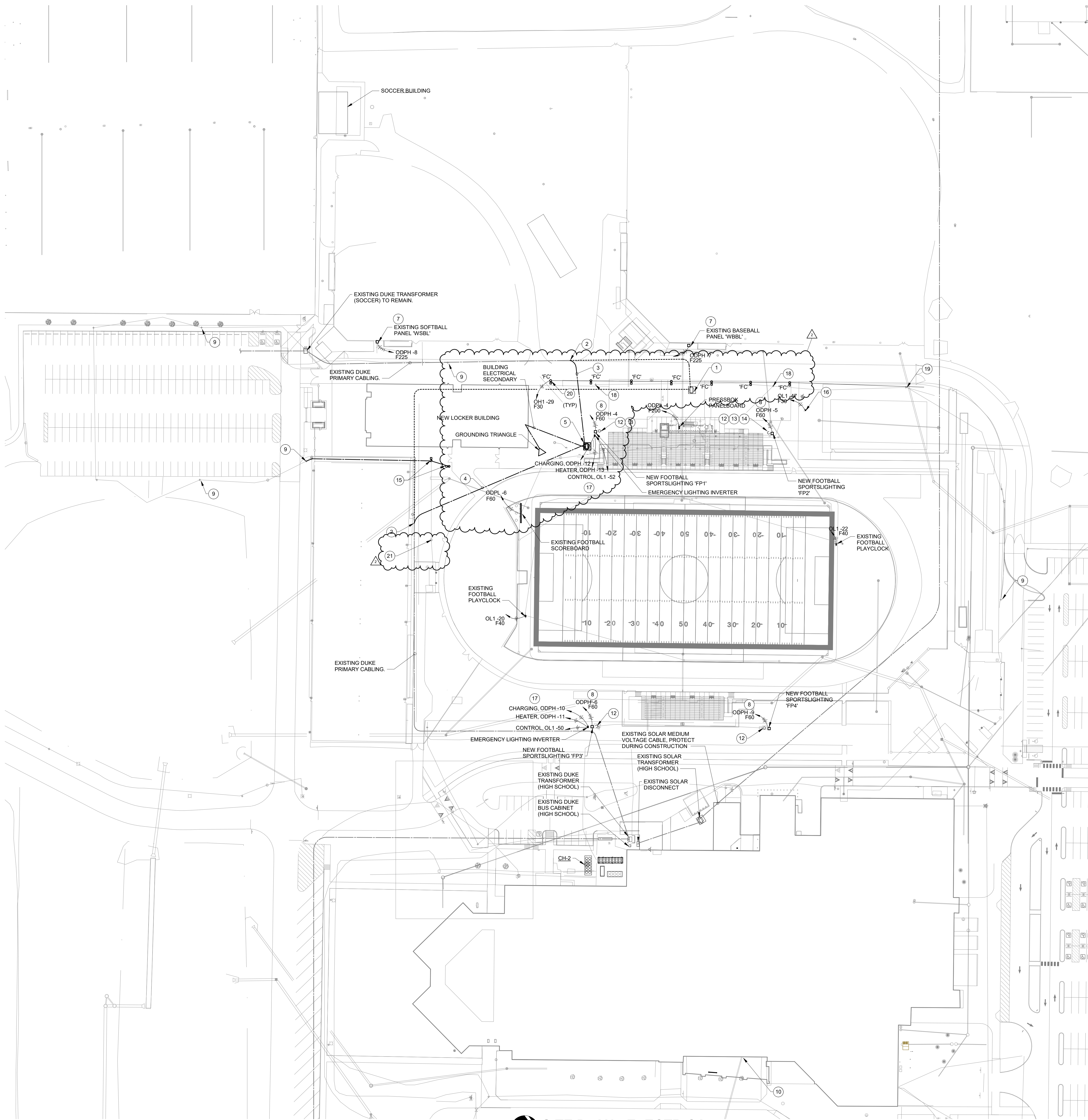
REVISIONS:
2 Addendum #3 2024-03-04

ISSUE DATE 02/08/2024 DRAWN BY AJS CHECKED BY AJS

DRAWING TITLE:
SYMBOLS,
ABBREVIATIONS,
& GENERAL
NOTES -
ELECTRICAL



DRAWING NUMBER
E001
PROJECT NUMBER
2022060



RENOVATION LEGEND:

- WORK TO BE INSTALLED
WORK TO REMAIN

GENERAL NOTES:

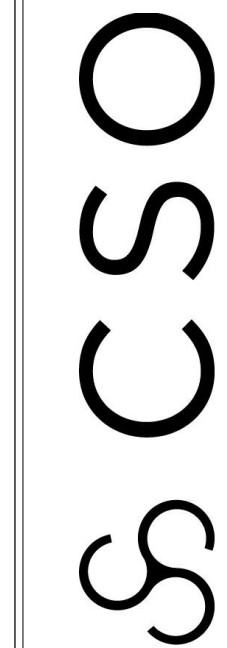
1. SEE E001 FOR GENERAL NOTES.

PLAN NOTES:

- EXISTING TRANSFORMER AND PAD TO BE REMOVED. COORDINATE WITH DUKE ENERGY.
- EXISTING ELECTRIC PRIMARY FEEDER TO BE REMOVED FROM EXISTING TRANSFORMER TO THIS POINT. COORDINATE WITH DUKE ENERGY.
- PROVIDE NEW 4" PVC CONDUIT FOR UTILITY PRIMARY. CONNECT TO EXISTING CONDUIT AND EXTEND TO NEW UTILITY TRANSFORMER. DUKE ENERGY TO INSTALL PRIMARY CABLING.
- PROVIDE NEW 4" PVC CONDUIT FOR UTILITY PRIMARY. EXTEND FROM NEW UTILITY TRANSFORMER AND CONNECT TO EXISTING PRIMARY CONDUIT TO HIGH SCHOOL. DUKE ENERGY TO INSTALL PRIMARY CABLING.
- NEW UTILITY TRANSFORMER. SEE DETAILS ON DRAWING E404.
- LOCKER BUILDING SERVICE FEEDER. SEE RISER ON DRAWING E501 FOR SIZING.
- EXISTING PANELBOARD TO BE REFEED FROM NEW LOCKER BUILDING. REMOVE EXISTING FEEDER CABLE. ABANDON EXISTING CONDUIT BELOW GRADE.
- NEW FOOTBALL LIGHTING POLE AND BASE.
- EXISTING PARKING LOT LIGHTING TO REMAIN. EXISTING CIRCUIT FROM HIGH SCHOOL BUILDING.
- EXISTING CONDUITS FOR POWER TO EXISTING MONUMENT SIGN ARE AFFECTED BY DEMOLITION OF EXISTING EXTERIOR WALL. INTERCEPT CONDUITS AND ROUTE NEW CONDUITS IN NEW EXTERIOR WALL. EXTEND CABLING AS REQUIRED TO EXISTING PANELBOARD.
- MONUMENT SIGN.
- DEMOLISH EXISTING SPORTSLIGHTING POLE AND BASE.
- EXISTING SPEAKER ON POLE TO BE TURNED OVER TO OWNER.
- EXISTING BUS ANTENNA ON POLE TO BE TURNED OVER TO OWNER.
- PARKING LOT POLE TO BE RELOCATED AND ORIENTATED TO POINT SOUTH. DEMOLISH EXISTING POLE BASE AND PROVIDE NEW POLE BASE. EXTEND CIRCUIT FROM REMAINING PARKING LOT FIXTURES.
- PROVIDE CIRCUIT FOR IRRIGATION CONTROL PANEL.
- SPORTSLIGHTING EMERGENCY INVERTER. SEE SCHEMATIC ON DRAWING E403. PROVIDE EQUIPMENT PAD.
- DEMOLISH EXISTING POLE AND BASE. TURN OVER HEAD TO OWNER. CIRCUIT TO REMAIN TO EXISTING FIXTURES STILL ON CIRCUIT.
- EXISTING PARKING LOT LIGHTING TO REMAIN. EXTEND NEW CIRCUIT FROM NEW LIGHTING TO THIS FIXTURE.
- SEE POLE BASE DETAIL ON DRAWING E403.
- PROVIDE NEW CIRCUITS FROM PANELBOARD OL3 TO EXISTING ELECTRIC HANDHOLE FOR EXISTING TENNIS COURT AND STORAGE BUILDING CIRCUITS. FED FROM DEMOLISHED LOCKER BUILDING. (6) 120V, 20A/1P CIRCUITS MATCH EXISTING CONDUCTOR SIZES.



Hamilton Heights
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PROJECT:
HAMILTON HEIGHTS SCHOOL
CORPORATION
HAMILTON HEIGHTS HIGH SCHOOL
PHASE 2 PROJECTS
25802 IN-19 Site 2, Arcadia, IN 46030

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the structural, mechanical and electrical systems.
The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:
1 Addendum #1 2024-02-22
2 Addendum #3 2024-03-04

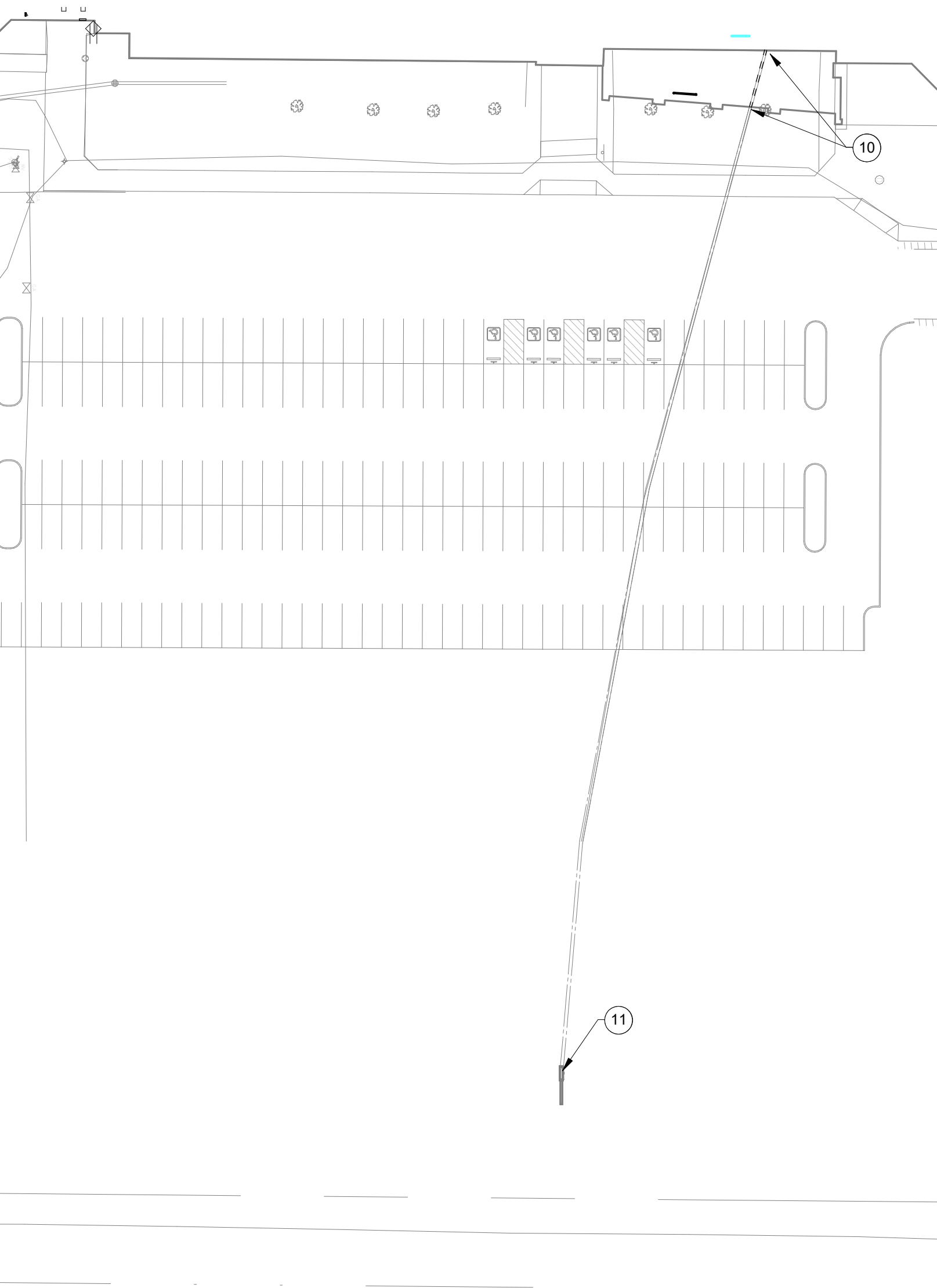
ISSUE DATE 02/08/2024
DRAWN BY AJS
CHECKED BY AJS

DRAWING TITLE:
SITE PLAN -
ELECTRICAL

CERTIFIED BY:
AARON J. SCHMIDT
No. PE10504720
STATE OF INDIANA
02/08/2024

DRAWING NUMBER
E100

PROJECT NUMBER
2022060



 SITE PLAN - ELECTRICAL
SCALE: 1" = 50'-0"

 SITE PLAN - EAST - ELECTRICAL
SCALE: 1" = 50'-0"



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HAMILTON HEIGHTS SCHOOL
CORPORATION
HAMILTON HEIGHTS HIGH SCHOOL
PHASE 2 PROJECTS
25802 IN-19 Site 2, Arcadia, IN 46030

SCOPE DRAWINGS:
These drawings indicate the general scope of the project, the architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.
The drawings do not necessarily indicate or describe all work required for full performance and completion of the elements of the Contract.


REVISIONS:

Addendum #3	2024-03-04
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SUE DATE	DRAWN BY	CHECKED BY
2/08/2024	AJS	AJS

DRAWING TITLE:
ADMINISTRATION
FIRST FLOOR
PLAN -
LIGHTING

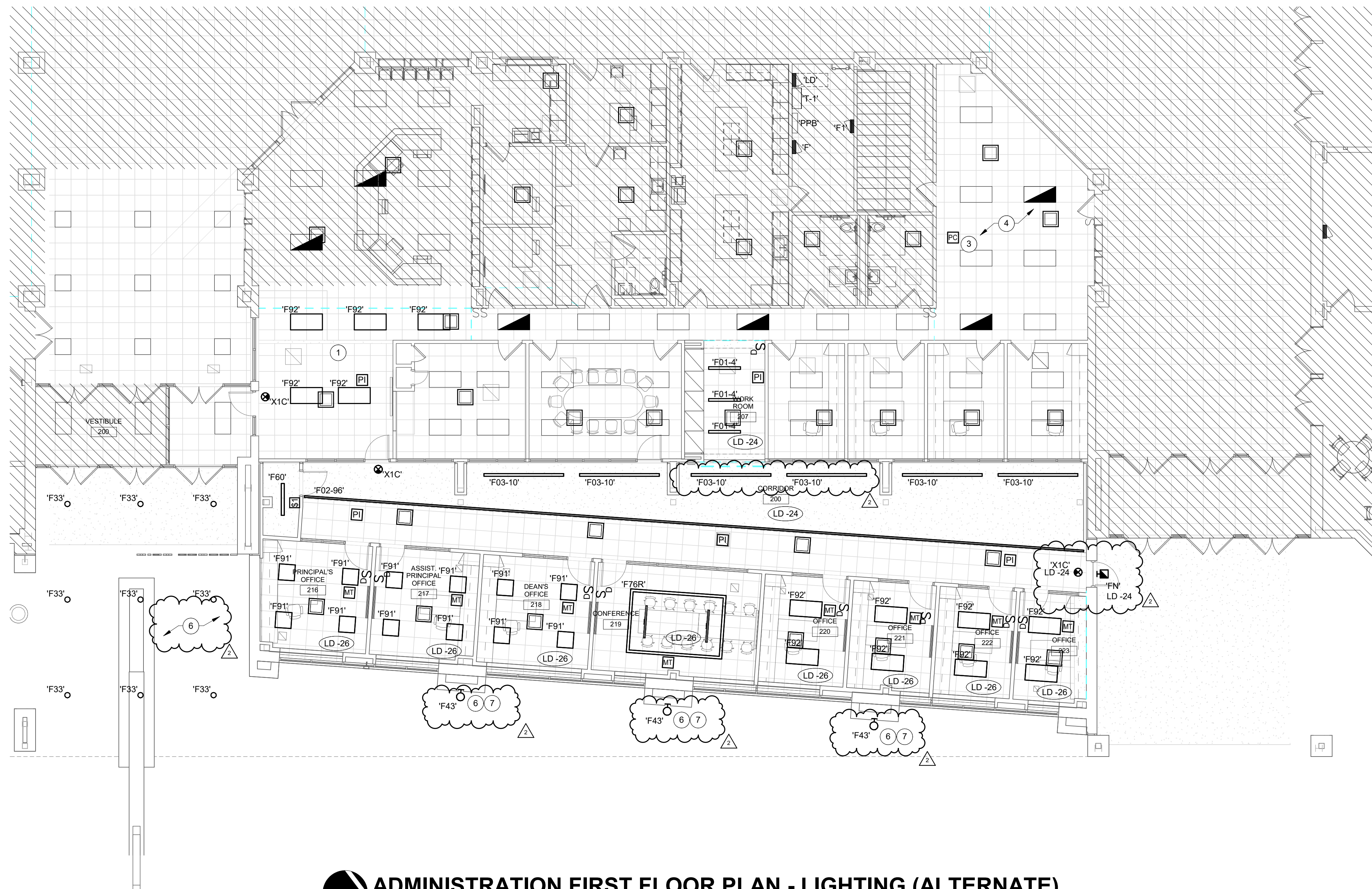
CERTIFIED BY:



06/2024

DRAWING NUMBER
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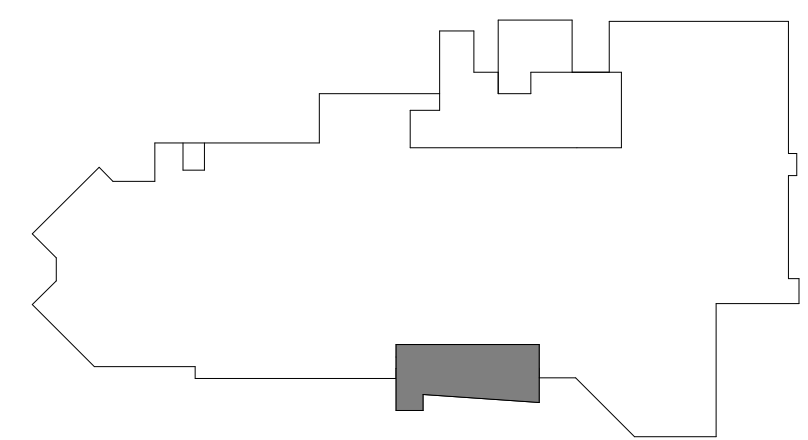
PROJECT NUMBER
2022060

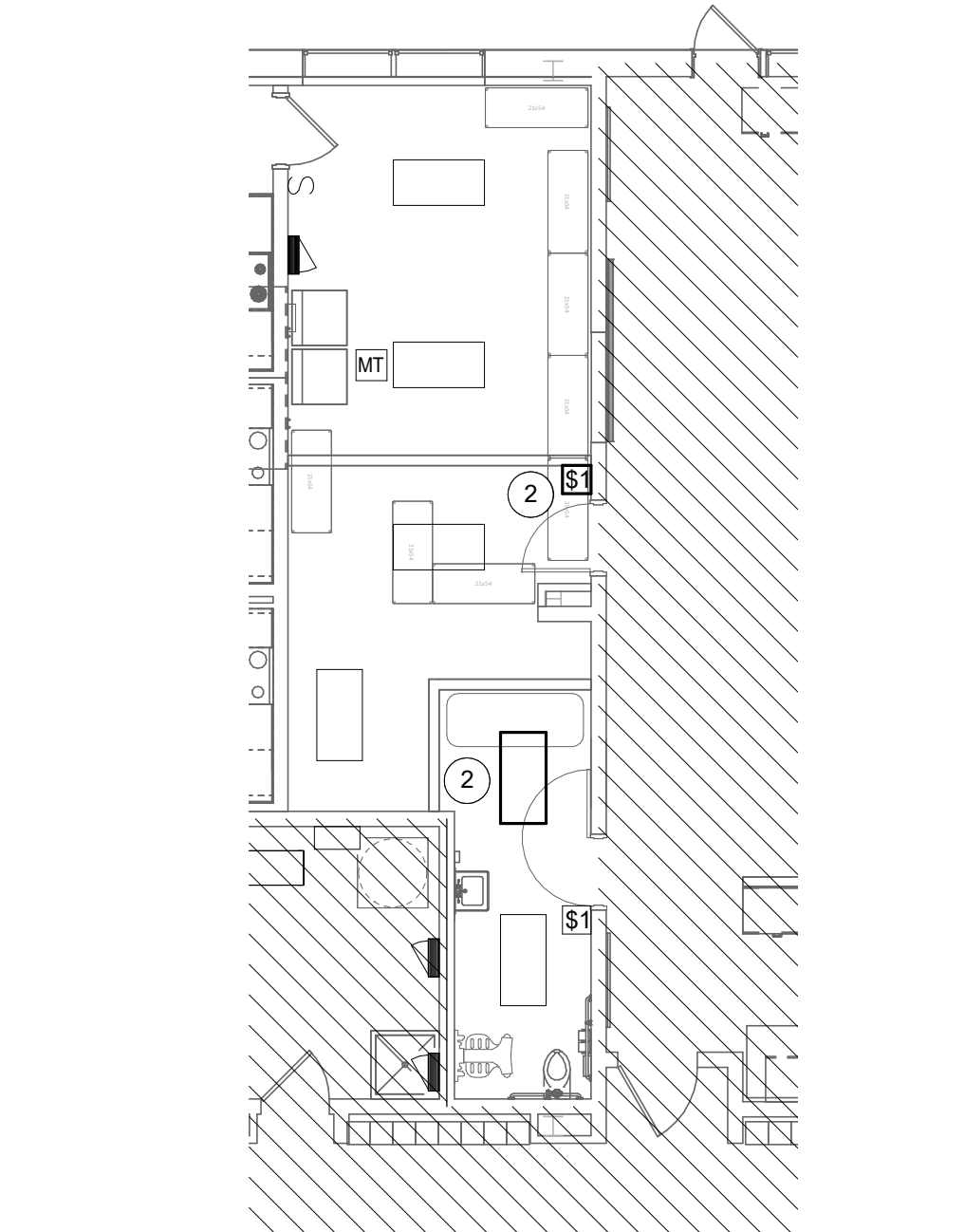
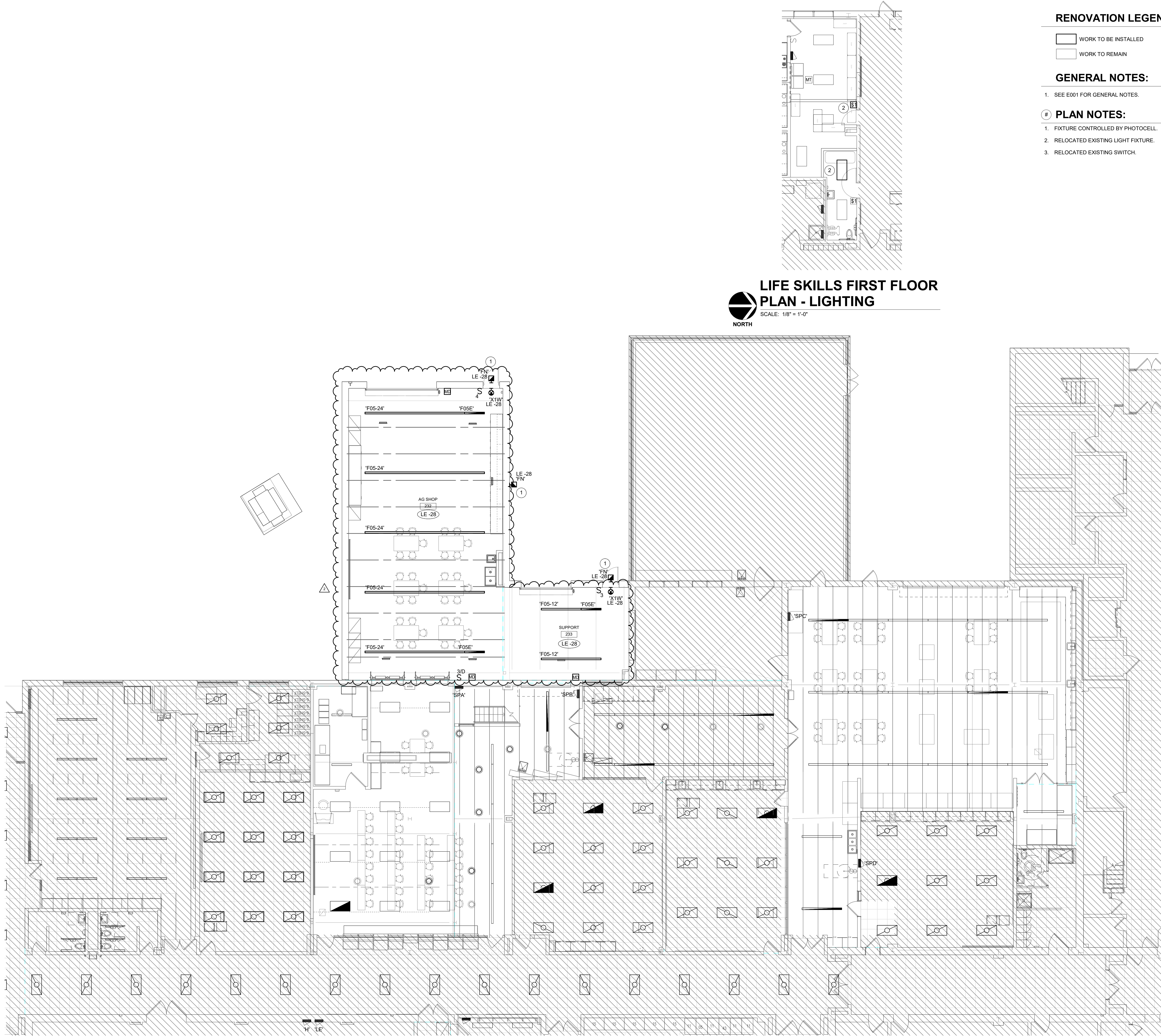


NORTH

ADMINISTRATION FIRST FLOOR PLAN - LIGHTING (ALTERNATE)

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





RENOVATION LEGEND:

- WORK TO BE INSTALLED
WORK TO REMAIN

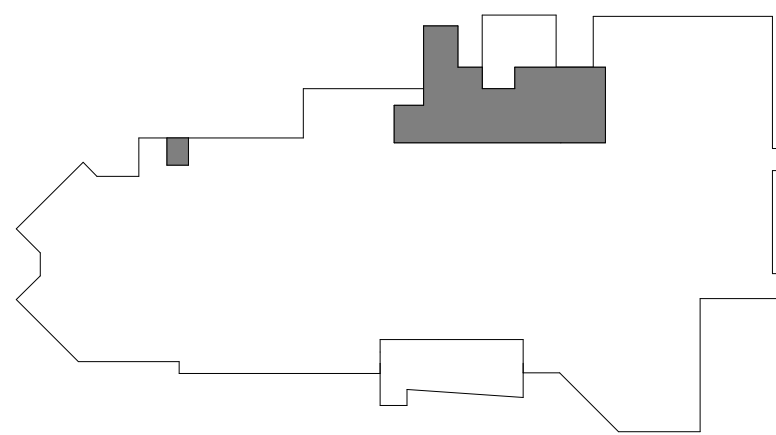
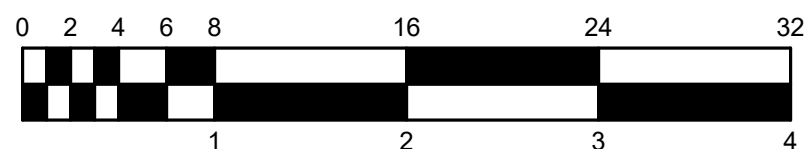
GENERAL NOTES:

1. SEE E001 FOR GENERAL NOTES.

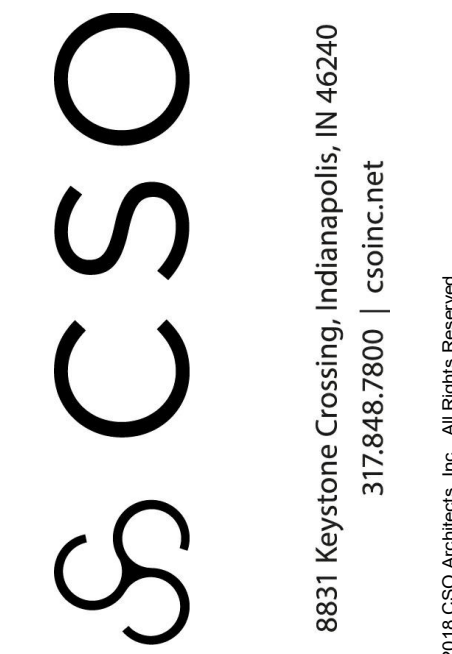
PLAN NOTES:

1. FIXTURE CONTROLLED BY PHOTOCELL.
2. RELOCATED EXISTING LIGHT FIXTURE.
3. RELOCATED EXISTING SWITCH.

AGRICULTURE FIRST FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"



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PROJECT:
HAMILTON HEIGHTS SCHOOL
CORPORATION
HAMILTON HEIGHTS HIGH SCHOOL
PHASE 2 PROJECTS
25802 IN-19 Site 2, Arcadia, IN 46030

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the structure of the building, and the location of the building. The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:
1 Addendum #1 2024-02-22
2 Addendum #3 2024-03-04

ISSUE DATE DRAWN BY CHECKED BY
02/08/2024 AJS AJS

DRAWING TITLE:
AGRICULTURE
FIRST FLOOR
PLAN -
LIGHTING



DRAWING NUMBER
E202

PROJECT NUMBER
2022060



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DMA #20590
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PROJECT
HAMILTON HEIGHTS SCHOOL
CORPORATION
HAMILTON HEIGHTS HIGH SCHOOL
PHASE 2 PROJECTS
25802 IN-19 Site 2, Arcadia, IN 46030

SCOPE DRAWINGS:
These drawings indicate the general scope of the project. The drawings are not intended to be a contract. The drawings are not intended to be a contract. The drawings are not intended to be a contract. The drawings are not intended to be a contract.

REVISIONS:
2 Addendum #3 2024-03-04

ISSUE DATE DRAWN BY CHECKED BY
02/08/2024 AJS AJS

DRAWING TITLE:
OUTBUILDING
FLOOR PLANS -
LIGHTING

CERTIFIED BY:
AARON J. SCHIPPEL
No. PE10504720
STATE OF INDIANA
Professional Engineer
02/08/2024

DRAWING NUMBER
E203

PROJECT NUMBER
2022060

RENOVATION LEGEND:

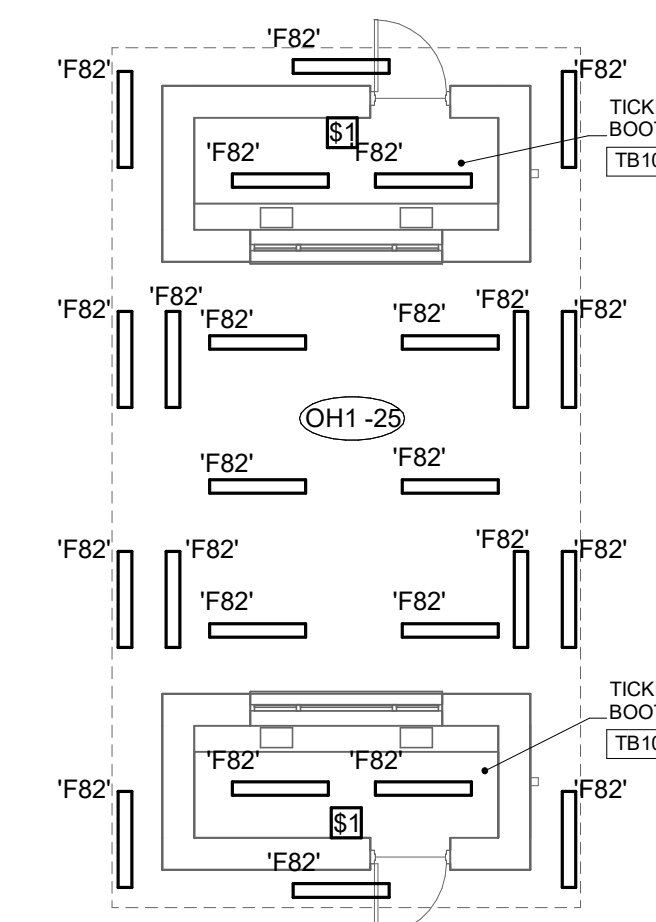
- WORK TO BE INSTALLED
WORK TO REMAIN

GENERAL NOTES:

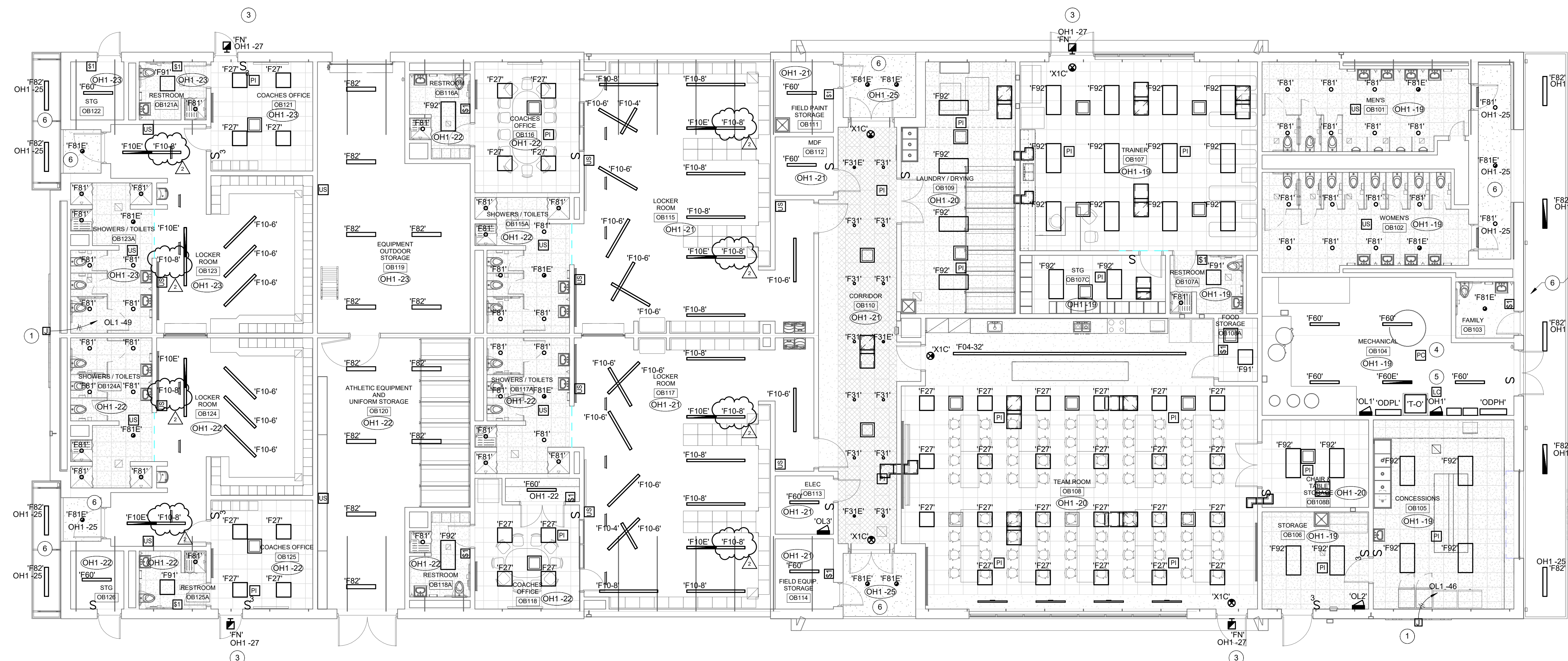
1. SEE E001 FOR GENERAL NOTES.

PLAN NOTES:

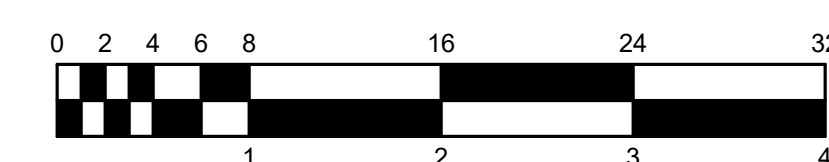
1. PROVIDE JUNCTION BOX AND CIRCUIT FOR POWERED SIGN. COORDINATE MOUNTING HEIGHT WITH SIGN MANUFACTURER.
2. SURFACE MOUNTED LIGHT FIXTURE ON METAL CANOPY.
3. FIXTURE CONTROLLED BY INTEGRAL PHOTOCELL.
4. PHOTOCELL ON ROOF.
5. LIGHTING CONTACTOR, PHOTOCELL/HOA CONTROL. 277V, 4 POLE. SEE SCHEMATIC ON DRAWING E403.
6. FIXTURE CONTROLLED BY LIGHTING CONTACTOR.



TICKET BOOTH PLAN - LIGHTING
SCALE: 1/8" = 1'-0"
NORTH



OUTBUILDING FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"
NORTH





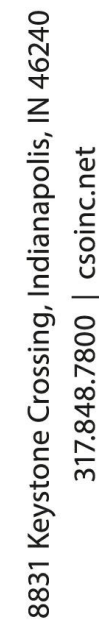
NOTES:

1. CONDUCTOR SIZES ARE BASED UPON 75°C AMPACITY, NO DERATING AND NO ADJUSTMENTS FOR VOLTAGE DROP. ADJUST AS REQUIRED BY EACH FIELD CONDITION IN ORDER TO COMPLY WITH UL AND NEC.

NOTES:

1. CONDUCTOR SIZES ARE BASED UPON 75°C AMPACITY, NO DERATING AND NO ADJUSTMENTS FOR VOLTAGE DROP. ADJUST AS REQUIRED BY EACH FIELD CONDITION IN ORDER TO COMPLY WITH UL AND NEC.

1. REFER TO DISTRIBUTION TRANSFORMER GROUNDING DETAIL FOR WIRE SIZES.
2. REMOVE (2) 400A/400AT FUSED SWITCHES AND PROVIDE 400A TWIN BREAKERS IN EXISTING SWITCHBOARD. CONNECT EXISTING LOADS TO NEW BREAKERS.
3. PROVIDE A NEW 600A/500AT CIRCUIT BREAKER IN EXISTING SWITCHBOARD.
4. PROVIDE A TWIN 100A/800AT BREAKERS IN EXISTING SWITCHBOARD.



Consulting Engineers

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PROJECT:
HAMILTON HEIGHTS SCHOOL
CORPORATION
HAMILTON HEIGHTS HIGH SCHOOL
PHASE 2 PROJECTS
25802 IN-19 Site 2, Arcadia IN 46030

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.

On the basis of the general scope indicated or described

REVISIONS

1	Addendum #1	2024-02-22
2	Addendum #3	2024-03-04

ISSUE DATE	DRAWN BY	CHECKED BY
02/08/2024	AJS	AJS

DRAWING TITLE

RISER DIAGRAM - ELECTRICAL

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CERTIFIED BY:



DRAWING NUMBER

E501

PROJECT NUMBER

2022060

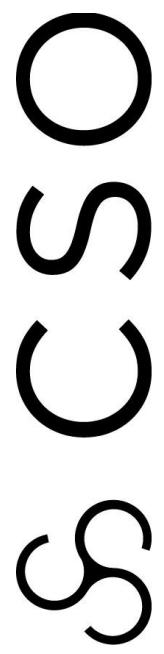


LIGHT FIXTURE SCHEDULE											
TYPE	DESCRIPTION	MOUNTING	TOTAL FIXTURE WATTS	CRI	WATTS	COLOR	LUMENS	VOLTS	MANUFACTURER(S)		TYPE
F01-4	1-1/2" LED LINEAR T-GRID MOUNTED, 0-10 DIMMING TO 10-PERCENT, WITH RAISED TOP ACRYLIC LENS.	SURFACE T-BAR	32	80	9.5W/FT	3500K	725/FT	277 V	ARON EZT1 SERIES KLUS B5566 SERIES JLC-TECH TBSL SERIES JADEMAR JTGRID SERIES		F01-4
F02-96	3" LED LINEAR, CONTINUOUS ROLL WHITE ACRYLIC LENS WITH NO LENS BREAK, DRYWALL FLANGE, 0-10V IMMING TO 10-PERCENT.	RECESSED	912	80	9.5W/FT	3500K	750/FT	277 V	STARTEK RBEAM SERIES JESCO LIN-D SERIES MARK SLOT 2 SERIES ALW SP2 SR SERIES		F02-96
F03-10	1-1/2" LED LINEAR, 0-10V DIMMING TO 10-PERCENT, WHITE ACRYLIC LENS	RECESSED	80	80	9.5W/FT	3500K	725/FT	277 V	STARTEK RSLIM SERIES JESCO LINSL-D SERIES MARK SLOT 2 SERIES ALW LP1R SERIES		F03-10
F04-32	LINEAR 3-INCH WIDE BY LENGTH INDICATED, WHITE DIFFUSER, 0-10V DIMMING TO 10-PERCENT, NON-IC RATED.	RECESSED	304	80	9.5W/FT	3500K	750/FT	277 V	STARTEK RBEAM SERIES JESCO LIN-D SERIES MARK SLOT4 SERIES ALW LP2R SERIES		F04-32
F05-12	LED LINEAR PENDANT WITH CONTINUOUS ROW CAPABILITY, LOW GLARE ACRYLIC LENS	SUSPENDED	57	80	11.3 W/FT	3500K	1200/FT	277 V	CORELITE DSI SERIES FINELITE S19-P SERIES PINNACLE CU3AJ SERIES WILLIAMS SDI5 SERIES		F05-12
F05-24	SAME AS F05-12, EXCEPT LENGTH.	SUSPENDED	57	80	11.3 W/FT	3500K	1200/FT	277 V			F05-24
F05E	SAME AS F05-12, WITH EMERGENCY BATTERY INVERTER.	SUSPENDED	28	80	7.1W/FT	3500K	720/FT	277 V			F05E
F10-4	LINEAR DIRECT 4-INCH WIDE BY LENGTH INDICATED, AIRCRAFT CABLE, WHITE DIFFUSER, 0-10V DIMMING TO 10-PERCENT.	SUSPENDED	28	80	7.1W/FT	3500K	720/FT	277 V	LUMINII TEAVA SERIES KLUS B8505 SERIES ECOSENSE OXYGEN O SERIES ALW RLPI SERIES		F10-4
F10-6	SAME AS F10-4, EXCEPT LENGTH.	SUSPENDED	43	80	7.1W/FT	3500K	720/FT	277 V			F10-6
F10-8	SAME AS F10-4, EXCEPT LENGTH.	SUSPENDED	57	80	7.1W/FT	3500K	720/FT	277 V			F10-8
F10E	SAME AS F10-4, WITH EMERGENCY BATTERY INVERTER.	SUSPENDED	28	80	7.1W/FT	3500K	720/FT	277 V			F10E
F27	2 BY 2-FOOT, WHITE ACRYLIC LENS, 0-10V DIMMING, LAY-IN DROP-IN IN CENTER	RECESSED	43	80	43W	3500K	4025	277 V	TGS OUTLINE SERIES NSL TLE SERIES JLC-TECH TBOD SERIES ABOVE ALL FRM SERIES		F27
F31	SURFACE LED CYLINDER	SURFACE	14	80	14W	3500K	1100	277 V	SENSO LETO 11.5 SERIES GOTHAM EVO23C SERIES CSL SS4021 SERIES ALW NOVA 6 SERIES		F31
F31E	SAME AS F31, WITH EMERGENCY BATTERY INVERTER.	RECESSED	14	80	14W	3500K	1100	277 V			F31E
F33	OPEN DOWNLIGHT, 8-INCH DIAMETER APERTURE, CLEAR SEMI-SPECULAR REFLECTOR, SELF FLANGED, 0-10V DIMMING TO 10-PERCENT, NON-IC RATED.	RECESSED	14	80	14.4W	3500K	1100	277 V	HALO COMMERCIAL HC8 SERIES LITHONIA LBHP-RD SERIES PRESCOLITE LC8 SERIES WILLIAMS 8DR SERIES		F33
F60	4-FOOT LENSED INDUSTRIAL, FORMED STEEL HOUSING, WHITE FINISH, SEMI-FROST ACRYLIC DIFFUSER.	SURFACE/ CHAIN HUNG	49	80	48W	3500K	5000	277 V	METALUX SNLED SERIES COLUMBIA MPS SERIES LITHONIA ZL1D SERIES WILLIAMS 75R SERIES		F60
F60A	4-FOOT LENSED INDUSTRIAL, FORMED STEEL HOUSING, WHITE FINISH, SEMI-FROST ACRYLIC DIFFUSER.	SURFACE/ CHAIN HUNG	49	80	48W	3500K	5000	120 V	METALUX SNLED SERIES COLUMBIA MPS SERIES LITHONIA ZL1D SERIES WILLIAMS 75R SERIES		F60A
F60E	SAME AS F60, WITH EMERGENCY BATTERY INVERTER.	SURFACE/ CHAIN HUNG	49	80	48W	3500K	5000	277 V			F60E
F61	2-FOOT LENSED INDUSTRIAL, FORMED STEEL HOUSING, WHITE FINISH, SEMI-FROST ACRYLIC DIFFUSER.	SURFACE	32	80	48W	3500K	5000	120 V	METALUX SNLED SERIES COLUMBIA MPS SERIES LITHONIA ZL1D SERIES WILLIAMS 75R SERIES		F61
F76R	LINEAR 2-INCH 8X12' RECTANGULAR SHAPED, WHITE DIFFUSER, WHITE FINISH, 0-10V DIMMING TO 10-PERCENT, NON-IC RATED.	RECESSED	380	80	9.5W/FT	3500K	725/FT	277 V	ARON EZT1 SERIES JLC-TECH TBSL SERIES KLUS B5566 SERIES JADEMAR JRTDL SERIES		F76R
F81	9-INCH APERATURE DOWNLIGHT, 80CRI, WET LOCATION LISTED, 0-10V DIMMING TO 10-PERCENT, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD FINISHES.	SURFACE	16	80	16.4W	3500K	1032	277 V	TGS THINTEK SERIES JUNO JSF SERIES GREENCREATIVE MRF8 SERIES ABOVE ALL SKG SERIES		F81
F81E	SAME AS F81 WITH EMERGENCY BATTERY INVERTER.	SURFACE	16	80	16.4W	3500K	1032	277 V			F81E
F82	4-FOOT INDUSTRIAL, WET-LOCATION LISTED, GASKETED, NON-METALLIC HOUSING, RIBBED FROSTED ACRYLIC SHIELDING, STAINLESS STEEL LATCHES.	SURFACE/ SURFACE WALL	47	80	47W	3500K	4850	277 V	METALUX UHBS SERIES LITHONIA CSVT SERIES COLUMBIA LXEM VAPORTITE SERIES WILLIAMS 96 SERIES		F82
F82A	4-FOOT INDUSTRIAL, WET-LOCATION LISTED, GASKETED, NON-METALLIC HOUSING, RIBBED FROSTED ACRYLIC SHIELDING, STAINLESS STEEL LATCHES.	SURFACE/ SURFACE WALL	47	80	47W	3500K	4850	120 V	METALUX UHBS SERIES LITHONIA CSVT SERIES COLUMBIA LXEM VAPORTITE SERIES WILLIAMS 96 SERIES		F82A
F91	2 BY 2-FOOT FLAT PANEL, ACRYLIC LENS, EDGE-LIT, 0-10V DIMMING TO 10-PERCENT	RECESSED	36	80	36W	3500K	3200	277 V	TGS EA-P SERIES LITHONIA CPX SERIES JESCO BLP SERIES WILLIAMS BP SERIES		F91
F92	2 BY 4-FOOT FLAT PANEL, ACRYLIC LENS, EDGE-LIT, 0-10V DIMMING TO 10-PERCENT	RECESSED	40	80	40W	3500K	4000	277 V	TGS EA-P SERIES LITHONIA CPX SERIES JESCO BLP SERIES WILLIAMS BP SERIES		F92
FN	ARCHITECTURAL WALL PACK, WET LOCATION LISTED, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD COLORS., INTEGRAL COLD WEATHER BATTERY INVERTER, PHOTOCELL CONTROL.	SURFACE WALL	40	70	40W	4000K	4000	277 V	LUMARK AXCENT SERIES LITHONIA WPX SERIES CURRENT SLING SERIES WILLIAMS VWP SERIES		FN
FNA	ARCHITECTURAL WALL PACK, WET LOCATION LISTED, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD COLORS., INTEGRAL COLD WEATHER BATTERY INVERTER, PHOTOCELL CONTROL.	SURFACE WALL	40	70	40W	4000K	4000	120 V	LUMARK AXCENT SERIES LITHONIA WPX SERIES CURRENT SLING SERIES WILLIAMS VWP SERIES		FNA
X1C	CAST ALUMINUM EXIT SIGN, BRUSHED FACE, BLACK HOUSING, SELF POWERED, SELF DIAGNOSTIC.	SURFACE CEILING	5	80	5W	GREEN	N/A	277 V	DUAL-LITE SE SERIES SURE-LITES CX SERIES LITHONIA LE SERIES LSL LSXDC SERIES		X1C
X1W	CAST ALUMINUM EXIT SIGN, BRUSHED FACE, BLACK HOUSING, SELF POWERED, SELF DIAGNOSTIC.	SURFACE WALL	5	80	5W	GREEN	N/A	277 V	DUAL-LITE SE SERIES SURE-LITES CX SERIES LITHONIA LE SERIES LSL LSXDC SERIES		X1W

EXTERIOR LIGHT FIXTURE SCHEDULE											
MARK	DESCRIPTION	MOUNTING	TOTAL FIXTURE WATTS	CRI	WATTS	COLOR	LUMENS	VOLTS	MANUFACTURER(S)		MARK
F43	EXTERIOR WALL SCONCE, RGBW, 20 DEG. UP/DOWN LIGHT, EXTRUDED ALUMINUM HOUSING, UL LISTED WET LOCATION, DMX DIMMING, POWDER COAT FINISH, COLOR TO BE SELECTED FROM MANUFACTURERS STANDARD COLORS.	SURFACE WALL	20	80	20W	--	2000	277 V	INSIGHT SSM-UP-DN-MO-20-20-WM-277-DMX-CC (PROVIDE ALLOWANCE OF \$550/EA, PLUS \$1500 FOR DMX CONTROLS, AND \$1500 FOR COMMISSIONING)		F43
FC	CAST ALUMINUM FIXTURE, POWDERCOATED FINISH, TYPE V DISTRIBUTION, NUMBER OF FIXTURE HEADS AS INDICATED, WET LOCATION LISTED, 14 -FOOT TALL SQUARE NON-TAPERED STEEL POLE, POWDERCOAT, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD FINISHES.	POLE	73	70	73W/HEAD	4000K	10000/HEAD	277 V	LUMARK PREVAIL PETITE SERIES CURRENT ASL1 SERIES LITHONIA RSX SERIES		FC



Hamilton Heights
School Corporation



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Consulting Engineers

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PROJECT:

HAMILTON HEIGHTS SCHOOL
CORPORATION
HAMILTON HEIGHTS HIGH SCHOOL
PHASE 2 PROJECTS

25802 IN-19 Site 2, Arcadia, IN 46030

SCOPE DRAWINGS:

These drawings indicate the general scope of the project. However, no drawings are intended to be used for the construction of structural, mechanical and electrical systems. The drawings are not necessarily suitable or describe all work required for full performance and completion of the requirements of the Contract. On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

2 Addendum #3 2024-03-04

ISSUE DATE 02/08/2024 DRAWN BY AJS CHECKED BY AJS

DRAWING TITLE:

SCHEDULES -
ELECTRICAL

CERTIFIED BY:



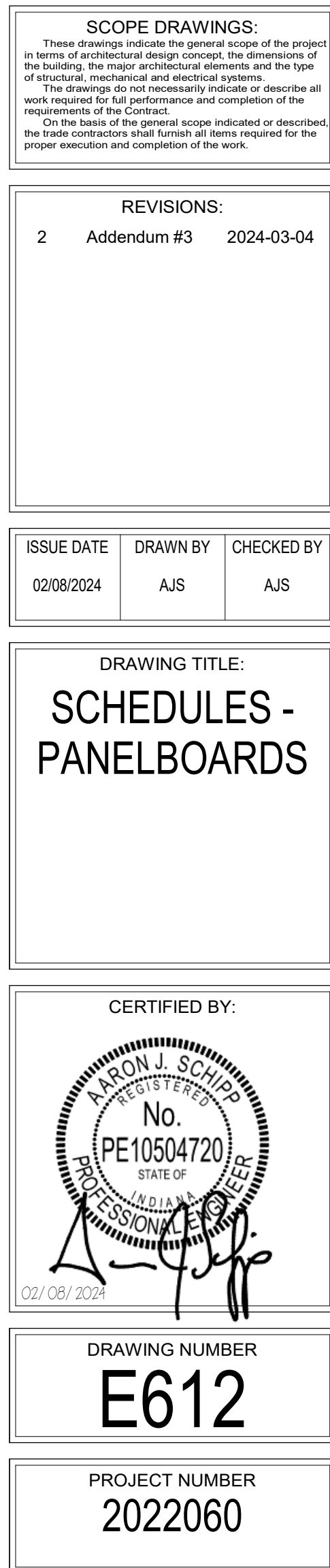
DRAWING NUMBER

E601

PROJECT NUMBER

2022060

ODPH		DISTRIBUTION PANELBOARD SCHEDULE											
LOCATION:		MECHANICAL OB104		SCRR (AMPS RMS SYM):		65,000		SERVICE:		480Y/277V 3Ø 4-Wire-Ground			
MAIN:		1200 A		ENCLOSURE:		NEMA 1		MOUNTING:		FLOOR			
NO.	DESCRIPTION			NOTE	RATING	POLES	PHASE A	PHASE B	PHASE C				
1	TRANSFORMER T-O (ODP)				350 A	3	206 A	212 A	206 A				
2	PANELBOARD OH1				225 A	3	125 A	122 A	113 A				
3	COMMERCIAL DRYER				125 A	3	95 A	95 A	95 A				
4	SOUTHWEST FOOTBALL LIGHTING				60 A	3	40 A	40 A	40 A				
5	NORTHWEST FOOTBALL LIGHTING				60 A	3	40 A	40 A	40 A				
6	SOUTHEAST FOOTBALL LIGHTING				60 A	3	40 A	40 A	40 A				
7	BASEBALL				200 A	3	160 A	160 A	160 A				
8	SOFTBALL/SOCCER				200 A	3	160 A	160 A	160 A				
9	NORTHEAST FOOTBALL LIGHTING				60 A	3	40 A	40 A	40 A				
10	EMERGENCY SPORTSLIGHTING INVERTER EAST				20 A	1	6 A	0 A	0 A				
11	EMERGENCY SPORTSLIGHTING INVERTER HEATER EAST				20 A	1	7 A	0 A	0 A				
12	EMERGENCY SPORTSLIGHTING INVERTER WEST				20 A	1	6 A	0 A	0 A				
13	EMERGENCY SPORTSLIGHTING INVERTER HEATER WEST				20 A	1	6 A	0 A	0 A				
14													
15													
TOTAL CONNECTED LOAD (VA):					757066 VA		TOTAL CONNECTED LOAD (A):					911 A	
REMARKS:					NOTES:								
INTEGRAL SPD													





ADDENDUM

ADDENDUM NO. 03

BID PACKAGE NO. ALL

PROJECT: Hamilton Heights High School – Phase Two Projects

The information contained herein modifies the original Bidding Documents and all prior Addenda as applicable. Requirements of the original Bidding Documents and previous Addenda remain in effect, except as modified by this Addendum.

Bidders must acknowledge receipt of this Addendum on the Bid Form. Failure to acknowledge receipt of this Addendum may subject Bidder to disqualification. This addendum includes:

ATTACHMENTS

1. 00 89 13a – Construction Schedule – Preliminary Outline
2. 01 12 00 – Scopes of Work – ADD3
3. 01 23 00 - Alternates

PART 1 – GENERAL INFORMATION

1.1 – N/A

PART 2 – DIVISIONS 00 & 01

2.1 – 00 89 13a – Construction Schedule

Document Added: Preliminary outline of the project schedule.

2.2 – 01 12 00 – Scopes of Work – ADD3

To replace section 01 12 00 issued in ADD2 entirely. Prospective bidders are encouraged to thoroughly review their revised scope of work.

2.3 – 01 23 00 – Alternates

Adds Alternate #10 – Two Year Warranty. Please reference specification for more information.

PART 3 – DRAWINGS

3.1 - N/A

END MEYER NAJEM PORTION ADDENDUM 2

ADDENDUM #03 - March 5, 2024



Exported on March 4, 2024 10:15:11 PM PST

ADDENDUM #03 - March 5, 2024

Task Name	Duration	Start	Finish	Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4		
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Prep and Pour SOG	5d	08/28/24	09/04/24																								
OH MEPs (INCLUDES RTU)	20d	09/03/24	09/30/24																								
Install Exterior Doors	4d	09/05/24	09/10/24																								
Install Exterior Light and Camera Fixtures	4d	09/13/24	09/18/24																								
Install Storefront System Complete	5d	09/13/24	09/19/24																								
Construct Ticket Window / Entry Structures	20d	09/16/24	10/11/24																								
Build Interior Walls	15d	09/17/24	10/07/24																								
In Wall MEPs	15d	09/17/24	10/07/24																								
Install Metal Panels	7d	09/25/24	10/03/24																								
Frame/Hang/Finish - Drywall Bulkheads and Ceilings	10d	10/01/24	10/14/24																								
Prime/1st Coat Paint	5d	10/11/24	10/17/24																								
Install Ceiling Grid	5d	10/17/24	10/23/24																								
Dryfall Exposed Deck and MEP's (2nd Shift Work)	10d	10/18/24	10/31/24																								
Prep and Place New Concrete Hardscapes and Walks (Around Locker Room and South End Zone / Tennis Area)	7d	10/28/24	11/05/24																								
Install Light Fixtures and Ceiling Mounted MEP's	10d	10/30/24	11/12/24																								
Install Site Fencing	5d	11/06/24	11/12/24																								
Exterior Signage	2d	11/15/24	11/18/24																								
Install Casework & Lockers	5d	11/11/24	11/15/24																								
Install Plumbing Fixtures	5d	11/15/24	11/21/24																								
Install MEP Finishes	4d	11/22/24	11/27/24																								
Install Doors and Hardware	5d	11/22/24	11/29/24																								
Division 10 Items	3d	11/22/24	11/26/24																								
Final Paint	5d	11/27/24	12/04/24																								
Install Ceiling Pads and Clouds	5d	11/29/24	12/05/24																								
Install Flooring Finishes	5d	12/05/24	12/11/24																								
Floor Base	2d	12/12/24	12/13/24																								
Final Clean	2d	12/16/24	12/17/24																								
Punch List and Corrections	10d	12/13/24	12/27/24																								
Substantial Completion/Certificate of Occupancy	1d	12/13/24	12/13/24																								
Owner Move In	10d	12/30/24	01/13/25																								
Phase 3 - Football Bleachers/Pressbox/Plaza/Lighting	96d	10/28/24	03/13/25	Phase 3 - Football Bleachers/Pressbox/Plaza/Lighting																							
Mobilize & Temp Fencing	1d	10/28/24	10/28/24																								
MEP Make Safes	2d	10/29/24	10/30/24																								
Demo of Existing Structures/Bleachers/Hardscapes/Fencing	7d	10/31/24	11/08/24																								
Rough Grade	3d	11/11/24	11/13/24																								
New Site Utilities	10d	11/14/24	11/27/24																								
Construct Building/Bleacher Pads	3d	11/29/24	12/03/24																								
Layout, Dig & Pour Home / Away / Baseball Bleacher & Pressbox Foundations	10d	12/04/24	12/17/24																								
Construct Elevator Shaft and Face Brick	10d	12/18/24	01/02/25																								
Set Bleacher Structure Home / Away	7d	01/03/25	01/13/25																								
Place Pressbox on New Structure Baseball and Football	1d	01/14/25	01/14/25																								
Install Bleacher Rails, Seating, etc. Home/Away	8d	01/15/25	01/24/25																								
R/I New Pressbox	5d	01/27/25	01/31/25																								
Prep and Pour New Concrete Hardscapes (6 Day)	15d	01/23/25	02/12/25																								
Final Connections and Finishes of Pressbox	5d	02/03/25	02/07/25																								
Install New Fencing System	8d	02/06/25	02/17/25																								

ADDENDUM #03 - March 5, 2024

Task Name	Duration	Start	Finish	Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4		
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Site Final Clean	2d	02/18/25	02/19/25																								
Punch List and Corrections	5d	02/20/25	02/26/25																								
Substantial Completion/Certificate of Occupancy	1d	02/27/25	02/27/25																								
Owner Move In	10d	02/28/25	03/13/25																								
Phase 4 - Front Office Addition & Phase 7 - Renovation (ALTERNATE)	153d	12/23/24	07/29/25	Phase 4 - Front Office Addition & Phase 7 - Renovation (ALTERNATE)																							
Phase 4 - Front Office Addition	153d	12/23/24	07/29/25	Phase 4 - Front Office Addition																							
Mobilize & Temp Fencing	1d	12/23/24	12/23/24																								
MEP Make Safe	1d	12/24/24	12/24/24																								
Install Temporary Walls, etc.	3d	12/26/24	12/30/24																								
Selective Demolition as Indicated	4d	12/31/24	01/06/25																								
Re-locate and Install Site Utilities as Indicated	5d	01/07/25	01/13/25																								
Construct Building Pad	3d	01/14/25	01/16/25																								
Layout, Prep and Pour Foundations	5d	01/17/25	01/23/25																								
Set and Detail Structural Steel and Decking	5d	01/30/25	02/05/25																								
Place Exterior Masonry Walls and Brick Facade	10d	02/06/25	02/19/25																								
Install Roofing System	4d	02/20/25	02/25/25																								
UG MEP's	3d	02/26/25	02/28/25																								
Prep and Pour SOG	3d	03/03/25	03/05/25																								
OH MEPs	15d	03/06/25	03/26/25																								
Install Interior Walls / Hard Lids / Bulkheads	8d	03/27/25	04/07/25																								
In Wall MEPs	8d	03/27/25	04/07/25																								
Install Door Frames	2d	03/27/25	03/28/25																								
Install Exterior Glazing Systems	5d	04/08/25	04/14/25																								
Insulate/Hang/Finish Drywall	1d	04/15/25	04/15/25																								
Install DAFS Systems	5d	04/15/25	04/21/25																								
Prime/1st Coat Paint	2d	04/16/25	04/17/25																								
Install Interior Glazing Systems	4d	04/18/25	04/23/25																								
Install Ceiling Grid	1d	04/24/25	04/24/25																								
Install Light Fixtures and Ceiling Mounted MEP's	3d	04/25/25	04/29/25																								
Install Metal Panels and Soffits	8d	05/06/25	05/15/25																								
Division 10 Items	2d	04/30/25	05/01/25																								
Install Doors and Hardware	3d	05/02/25	05/06/25																								
Install New Hardscapes and Landscapes	10d	06/23/25	07/07/25																								
Drop Ceiling Pads	2d	06/23/25	06/24/25																								
Install Flooring Finishes	3d	06/25/25	06/27/25																								
Final Paint	3d	06/30/25	07/02/25																								
Final Clean	1d	07/03/25	07/03/25																								
Punch List and Corrections	5d	07/07/25	07/11/25																								
Substantial Completion/Certificate of Occupancy	1d	07/22/25	07/22/25																								
Owner Move In	5d	07/23/25	07/29/25																								
Phase 7 - Front Office Interior Renovations	41d	06/02/25	07/29/25	Phase 7 - Front Office Interior Renovations																							
MEP Make Safe	1d	06/02/25	06/02/25																								
Selective Demolition as Indicated	2d	06/03/25	06/04/25																								
OH MEP's	4d	06/05/25	06/10/25																								
Install New Walls/Ceilings As Indicated	3d	06/11/25	06/13/25																								
In Wall R/I's	4d	06/11/25	06/16/25																								

ADDENDUM #03 - March 5, 2024

Task Name	Duration	Start	Finish	Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4		
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
136 Hang and Finish Drywall	4d	06/17/25	06/20/25																								
137 Prime/1st Coat Paint	1d	06/23/25	06/23/25																								
138 Install Interior Glazing Systems	3d	06/24/25	06/26/25																								
139 Install Ceiling Grid	2d	06/27/25	06/30/25																								
140 Install Light Fixtures and Ceiling Mounted MEP's	3d	07/01/25	07/03/25																								
141 Division 10 Items	1d	07/01/25	07/01/25																								
142 Install Doors and Hardware	2d	07/02/25	07/03/25																								
143 Drop Ceiling Pads	1d	07/07/25	07/07/25																								
144 Install Flooring Finishes	2d	07/08/25	07/09/25																								
145 Final Paint	2d	07/10/25	07/11/25																								
146 Final Clean	1d	07/14/25	07/14/25																								
147 Punch List and Corrections	5d	07/15/25	07/21/25																								
148 Substantial Completion/Certificate of Occupancy	1d	07/22/25	07/22/25																								
149 Owner Move In	5d	07/23/25	07/29/25																								
Phase 5 - Ag Lab Addition & Phase 6 Ag Lab Renovation	150d	12/23/24	07/24/25	Phase 5 - Ag Lab Addition & Phase 6 Ag Lab Renovation																							
Phase 5 - Ag Lab Addition	150d	12/23/24	07/24/25	Phase 5 - Ag Lab Addition																							
MEP Make Safes & Temp Fencing	2d	12/23/24	12/24/24																								
Install Temp Walls / Facilities	3d	12/31/24	01/03/25																								
Selectively Demo Hardscapes and Building Features as Indicated	3d	01/06/25	01/08/25																								
Grade and Construct Building Pad	3d	01/17/25	01/21/25																								
Layout and Pour Foundations	4d	01/24/25	01/29/25																								
Erect Masonry Walls and Brick Facade (MEP R/I's Chase)	10d	01/30/25	02/12/25																								
Install Door Frames	1d	01/30/25	01/30/25																								
Set and Detail Structural Steel, Joists and Decking	4d	02/13/25	02/18/25																								
Install Roofing System	3d	02/19/25	02/21/25																								
UG MEP R/I's	3d	02/24/25	02/26/25																								
Install Exterior Glazing Systems	2d	02/24/25	02/25/25																								
Prep and Pour SOG	3d	02/27/25	03/03/25																								
OH MEP R/I's (Systems in Existing Lab 2nd Shift or Weekend Work)	15d	03/04/25	03/24/25																								
Dryfall Exposed Decks and MEP's (2nd Shift)	2d	03/25/25	03/26/25																								
Prime/1st Coat Paint	2d	03/27/25	03/28/25																								
Install Light Fixtures and Ceiling Mounted MEP's	5d	03/31/25	04/04/25																								
Install OH Doors	2d	04/07/25	04/08/25																								
Install Casework	3d	04/09/25	04/11/25																								
Install Plumbing Fixtures	2d	04/14/25	04/15/25																								
Install MEP Finishes	5d	04/16/25	04/22/25																								
Install Doors and Hardware	2d	04/23/25	04/24/25																								
Division 10 Items	1d	04/25/25	04/25/25																								
Install Floor Finishes	2d	04/28/25	04/29/25																								
Final Paint	2d	04/30/25	05/01/25																								
Final Clean	2d	06/30/25	07/01/25																								
Punch List and Corrections	5d	07/02/25	07/09/25																								
Substantial Completion/Certificate of Occupancy	1d	07/10/25	07/10/25																								
Owner Move In	10d	07/11/25	07/24/25																								
Phase 6 - Ag Lab Renovation	38d	06/02/25	07/24/25	Phase 6 - Ag Lab Renovation																							
MEP Make Safes	2d	06/02/25	06/03/25																								

ADDENDUM #03 - March 5, 2024

Task Name		Duration	Start	Finish	Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4		
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
182	Selective Demolition as Indicated	3d	06/04/25	06/06/25																								
183	Sawcut Slab, New UG Plumbing and Pour Back	5d	06/09/25	06/13/25																								
184	Layout, Frame, Hang and Finish Walls / Infills as Indicated	6d	06/16/25	06/23/25																								
185	Prime/1st Coat Paint	1d	06/24/25	06/24/25																								
186	Floor Finishes	2d	06/25/25	06/26/25																								
187	MEP Improvements	10d	06/16/25	06/27/25																								
188	Final Paint	1d	06/30/25	06/30/25																								
189	Final Clean	2d	06/30/25	07/01/25																								
190	Punch List and Corrections	5d	07/02/25	07/09/25																								
191	Substantial Completion/Certificate of Occupancy	1d	07/10/25	07/10/25																								
192	Owner Move In	10d	07/11/25	07/24/25																								
New Chiller Scope		72d	12/16/24	03/27/25																								
194	Prep Work for New Chiller	35d	12/16/24	02/04/25																								
195	Chiller Delivery and Placement	1d	02/05/25	02/05/25																								
196	Chiller Hook Ups	15d	02/06/25	02/26/25																								
197	Commissioning	10d	02/27/25	03/12/25																								
198	Punch List and Corrections	5d	03/13/25	03/19/25																								
199	Substantial Completion/Certificate of Occupancy	1d	03/20/25	03/20/25																								
200	Owner Move In	5d	03/21/25	03/27/25																								
Life Skills Renovations		36d	06/03/24	07/23/24																								
202	Life Skills Renovations Scope Complete (Summer Break 2024)	25d	06/03/24	07/08/24																								
203	Punch List and Corrections	5d	07/09/24	07/15/24																								
204	Substantial Completion/Certificate of Occupancy	1d	07/16/24	07/16/24																								
205	Owner Move In	5d	07/17/24	07/23/24																								
Schedule Notes																												
207	When Activities Overlap, In More Than One Building Area, Contractor Shall Provide (2) or More Crews to Maintain the Schedule in Each Area. (Typical)																											
208	6 Day Work Week to Include 8 Hour Shifts Monday - Saturday (Typical)																											

GENERAL SCOPE ITEMS - Applies to ALL Bidders

1. All work necessary for the completion of the project, as documented in the Drawings, Specifications, Scope of Work, and Contract Manual. Review/Incorporate all drawings, general notes, and plan notes, which refer to each contractor's scope of work.
2. Reference and include additions/changes/deletions per updated/addenda documents issued from Meyer Najem Construction (MNC) & Architect/Engineers.
3. All items listed below are to assist in coordination for contractor's scope. It will be the contractor's responsibility to coordinate their scope of work with the contract documents.
4. In addition to the Contract Drawings, contractor shall review and include, but not be limited to the following items: Specification Sections, Contract Manual (Complete), Division 00 (Complete) and Division 01 (Complete). The requirements of the Instructions to Bidders, General Conditions, Bidding and Contract Forms are a part of the work of every Bid Package.
5. Throughout the items listed below, many specific detail references are identified for informational purposes. The detail references do not limit the scope of work and serve only to describe the scope of work for inclusion of all similar details within the bid for each Bid Package/Scope.
6. Any notes on the drawings or specifications that describe responsibility for work shall not be utilized, exclusively, for determining scope of work requirements (e.g., "by general contractor" or "by electrical contractor"). These notes shall not be used to limit or exclude any scope of work. Responsibility for work shall be as indicated in this scope of work. In the event the responsibility is undefined in the Bid Package Scope of Work, the drawings and specifications shall be followed.
7. For all items listed below and terms "include" and "provide" means "furnish and install" unless noted otherwise.
8. Provide all trade specific permits, fees, inspection costs associated with this scope of work (as applicable). Primary building permit will be submitted and paid for by the Owner.
9. Include approved licensing required to work in the project location, both local and state.
10. **All Contractors and Sub-contractors for IDOA Public Works projects valued at over \$300,000 MUST be pre-qualified OR in the process of being qualified through the Public Works Certification Board. Pre-qualification requires submission of an application for review by the Public Works Certification Board members.**
11. This project does NOT require prevailing, Davis-bacon nor union wages.
12. This Project **is Tax Exempt.**
13. **Review and include, as they may apply to this bid package, Sections 01 21 00 (Allowances) and 01 23 00 (Alternates) of the contract documents.**
14. When working on, near or adjacent to finished or existing surfaces to remain, protect those surfaces from damage. Damages caused will be repaired at the cost of the trade contractor causing the damage and not the Owner or MNC.
15. Contractor is responsible for means and methods of performing their work. Each trade is responsible for providing all construction accessories, equipment, tools, access/aerial aids, etc. to perform their work. Contractor is responsible for reviewing and understanding existing conditions and construction phasing.
16. Any contractor who desires to put a trailer or stored material on site must do so with the approval of MNC, and at a location as directed by MNC (the cost of installing, disconnecting, and usage of any electricity shall be incurred by the trade contractor requiring such services).
17. This project is being constructed near residential areas and Owners operational facilities (~~South Elementary, Middle School, and Transportation Facility~~) (**Hamilton Heights High School**) – **Addendum 3**. Contractor shall take all precautions to not impact or disrupt the operations of this and the adjacent residents. All work must accommodate the required access and egress to the existing buildings and neighborhoods. All pedestrian and vehicles egress and access that are adjacent to the work of this project shall be continuously maintained throughout the duration of this work.

SECTION 01 12 00
BID PACKAGES (SCOPES OF WORK)

- Each contractor is responsible for providing their own traffic control measures as necessary/required.
18. Contractor shall perform all work in strict accordance with Project Requirements and all OSHA Rules and Regulations, and Silica Standard for Construction 1926.1153.
 19. Contractor shall provide handrails, flagging, signage, spotters, etc. and they shall be in place for the duration of the fall hazard created by this Bid Package. Contractor is responsible for all temporary fall protection measures and signage to comply with OSHA requirements.
 20. Contractor is responsible to purchase their own set of construction documents (as many as needed) for bidding and for the construction of the project once awarded.
 21. Provide daily and routine cleaning as outlined in Specification Sections 01 5000 Temporary Facilities and 01 74 19 Cleaning.
 22. Contractor shall clean their work area daily. Failure to perform this task and debris that is left by the contractor or the contractor's subcontractor, the said contractor that created the debris will be responsible for the hourly rate cost for MNC to remove the debris.
 23. All project personnel are required to check in with MNC's Site Superintendent upon mobilizing to site to obtain a Site-Specific Hardhat Sticker, sign in and watch a Safety Video.
 24. All contractors and contractor's subcontractors, etc. will be required to check-in with MNC's Site Superintendent prior to work activities each individual day.
 25. This School Corporation is a tobacco, vaping, alcohol, and drug free institution / workplace and is strictly prohibited. All workers while on the property shall adhere to this rule. Any violators will be removed from the premise.
 26. Escalation costs for all labor, materials, equipment, and consumables **shall be included** in the bid pricing, based upon the anticipated project duration.
 27. Every trade while on site is responsible and required to monitor and maintain the cleanliness of treads and tires on equipment and vehicles being used for material delivery, handling and/or installation, prior to moving across roadways. Should any debris, dirt etc. be tracked out of the work site, and it is determined by MNC that you are the responsible party, you will be required to provide proper removal and cleanup.
 28. Contractor shall include all required labor for pre-checkout, start-up, and commissioning of equipment.
 29. Supports, Unistrut, wood blocking and other items that are not explicitly shown in the drawings shall be included by the contractor requiring the support, etc. Wood blocking and backing indicated on the drawings, or required at walls and ceilings, etc. to provide a complete and functioning installation of the equipment shall be provided by the Bid Package #08 – Drywall contractor. **Bid Package #06 – General Trades – Addendum 3**
 30. It is the responsibility of each contractor to provide clean materials and equipment at the time of project turnover.
 31. Contractors will be subject to the following media and promotional guidelines as it applies to the project. Company Logos will not be allowed on materials, trailers, fencing, storage facilities, etc. unless approved in writing by the Owner and MNC. Furthermore, contractor or contractor's subcontractors are not permitted to advertise or feature the project by website, television, newspaper, magazine, social media or any other promotional or media output unless specifically approved in writing by the Customer and MNC.
 32. Contractors performing excavations are responsible for calling/requesting utility (public and/or private) locates. MNC will not request utility locates. The contractor performing the excavation must request the utility locates.
 33. Materials, debris, excess soils, excavated soils etc. hauled off site shall be hauled in accordance with regulations and disposed of legally. Each contractor is responsible for removal of their own spoils from the project site.
 34. All pumping necessary to keep excavations and trenches free from water during the entire progress of this work shall be the responsibility of the contractor who is responsible for said excavations and trenches. This excludes groundwater remediation. Water shall

- be discharged per the approved SWPPP. Clean up of sediment around storm water control measures is the responsibility of the contractor causing the need for said clean up.
35. The Owner, The Town, local Fire Department, and all additional authorities having jurisdiction have the right to perform a walkthrough and request corrective action at any time during construction. A Certificate of Occupancy will be required at the end of the project.
 36. Contractor shall reference Specification Section 00 89 13 Construction Schedule – Preliminary Outline and shall review in detail the CM drawings, for site logistics, general notes, and life safety throughout different phases (time frames) of the project.
 37. This project will utilize Lean Construction Principles and will require attendance to pull planning sessions/scheduling, weekly work plan meetings and daily huddles for all field supervision to develop and facilitate an agreed upon detailed schedule. Contractor shall include required mobilizations and provide adequate manpower / crews and overtime to complete the scope of work as indicated and maintain this schedule. Refer to Specification Section 01 32 00 Lean Construction Requirements for additional requirements.
 38. In connection with above line item, contractor is responsible for reviewing, understanding, and acknowledging the Preliminary Construction Schedule Outline in Specification Section 00 89 13, including any issued CM Drawings, regarding sequencing and shall include all mobilizations as required. As **noted**, certain trades / activities may be required to have **multiple crews, overtime and / or shift work**. Contractor **shall provide** adequate manpower / crews and overtime in his/her bid price to maintain this schedule. Premium costs for Phasing, Utility / System Tie-Ins, Overtime, Weekend and Second Shift work shall be included as dictated in the Preliminary Construction Milestone Schedule. **NO** additional monies will be provided for failure to do so. Educate all field personnel of Phasing and Bid Package requirements indicated.
 39. This contractor will accommodate out of sequence work necessitated by coordination with other trades.
 40. Contractors whose scope of work requires access and or work to the roofing system are responsible for maintaining and protecting the roof.
 41. All contractors shall note any instance where additional detailing or information is necessary prior to proceeding with any work. These conditions should be communicated by the bidder prior to contract finalization.
 42. Include all materials and labor for mockup conditions per drawings and specifications, if required.
 43. Provide all materials for attic stock under this scope of work per specifications requirements.
 44. Contractor is responsible and shall include labor and equipment necessary to receive, unload, handle, and stage all materials provided by their scope of work.
 45. Operation of any construction equipment (those vehicles that are not legal to operate on streets) outside of construction fence/limits shall be minimized and accompanied by a person walking next to the equipment flagging to ensure that the equipment does not affect adjacent public pedestrian and vehicle traffic.
 46. Contractor is responsible for all submittals, shop drawings, samples “colors”, closeout documentations required by the project. These documents shall be submitted in digital format to MNC in accordance with the project activities to not delay material acquisition etc. As a general requirement, all submittals are to be received by the Construction Manager within three (3) weeks following formal contract award, unless agreed upon differently. Contractor will be required to submit to the Construction Manager a list of material and equipment that will have a lead time of greater than three (3) weeks and will take longer than the required three (3) weeks to compile submittals for. This list will be due to the Construction Manager within seven (7) days following formal award.

SECTION 01 12 00
BID PACKAGES (SCOPES OF WORK)

47. Provide all warranties required per the documents. Warranties and equipment warranties will begin on the date of substantial completion of the construction phase in which the item(s) are installed. Reference the CM drawings for phasing.
48. Contractor shall be responsible for providing, installing, and maintaining of their own certified scaffolding systems, ladders, lifts, equipment, per OSHA guidelines and requirements, as required to complete the scope.
49. Provide all testing and quality control measures per the applicable specifications. Third party testing will be provided and paid for by the Owner.
50. Owner shall have the right of first refusal on all items being removed from the building or site. The contractor shall coordinate removal of all salvageable items with the Owner. At Owner's request or items shown on the demolition plan to be salvaged, shall either be turned over to the Owner or stored in a location designated by the Owner or their representative. Items of salvageable value to the Contractor may be removed with the Owner or their representative's permission. The Contractor shall not store these items on site. Failure to coordinate with the Owner and/or their representative in writing prior to proceeding with demolition or removal of materials and equipment may result in a deductive change order in the amount of the replacement value of the noted items.
51. Contractor shall review AIA A201-2017 General Conditions of the Contract for Construction for stored materials provisions associated with this project. All required documentation and procedures will be required as precedent to approval and payment.
52. By submitting a bid, this contractor acknowledges that they will participate in the below punch list procedure:
 - a. Approximately four weeks from substantial completion the Construction Manager will perform a punch list walkthrough. These items are meant to minimize the number of items that may or may not be found on the final punch list walkthrough. All items identified in the Construction Manager walkthrough must be corrected no more than two (2) weeks following the issuance of the punch list.
 - b. As scheduled, a final punch list walkthrough will be scheduled with the Owner and Architect. All items identified in the final punch list walkthrough must be corrected no more than two (2) weeks following the issuance of the punch list.
 - c. Each Contractor's Field Representative must certify, in writing, to the Construction Manager when items are corrected. Failure to do so may result in delayed payment.
53. Field Engineering control is by MNC. Reference Section 00 81 21 Field Engineering for layout requirements by each Bid Package.
 - a. Contractor is responsible for providing field engineering and surveying for their own scope of work, including all horizontal and vertical control, as required. Provide all layout for this scope of work.
54. Carefully review the Temporary Facilities Matrix provided in Section 01 50 00. Provide everything required for your Bid Package.
55. Carefully review the CM drawings. Provide everything required for your Bid Package.
56. This Bid Package Acknowledges there will be soil stabilization at the new building addition and at the new pavement areas. Reference the CM drawings for details.
57. Temporary bracing is the responsibility of the trade requiring the temporary bracing (ex. new openings in CMU).
58. Each contractor providing sawcuts through concrete shall provide concrete scanning.
59. The following activities should be performed before or after school: dryfall paint, sawcutting within the building, applying flooring adhesives, use of powder actuated tools, fire protection system tie-ins and draining (before or after school).
60. **Due to the nature of the job having multiple phases, each contractor shall account for multiple phases of material shipments. Each contractor shall provide "just in time delivery" or provide a material storage unit onsite. No materials will be stored within the building. Each contractor is responsible for the cost of their own storage unit.**

SECTION 01 12 00
BID PACKAGES (SCOPES OF WORK)

- a. Materials should not be delivered until the building is conditioned per the material manufacturer/spec requirements (temperature/moisture requirements).
61. In the event any Bid Package is doing work over the top of existing or new flooring products, it is the specific Bid Package's responsibility to provide adequate floor protection for the personnel, equipment, etc. that is being used over the top of the finished surfaces. Providing floor protection does not preclude the applicable Bid Package from being held financially responsible for any damage caused by their scope of work.

END OF GENERAL SCOPE ITEMS - Applies to ALL Bidders

BID PACKAGE #01 – SITEWORK

Scope Specific Inclusions:

All work per Specification Sections

00 & 01 Complete	Bidding & General Requirements
Section 02 41 19	Selective Demolition – Addendum 3
Section 02 41 19	Selective Structure Demolition
Section 12 93 02	Netted Backstop – Addendum 3
Section 13 34 16	Permanent Grandstands and Press box – Addendum 3
Section 31 10 00	Site Clearing
Section 31 20 00	Earth Moving
Section 31 20 10	Earthwork – Building
Section 31 23 10	Dewatering
Section 31 26 00	Erosion and Sedimentation Controls
Section 32 11 33	Granular Base
Section 32 12 16	Asphalt Paving – Addendum 3
Section 32 12 17	Geosynthetics
Section 32 31 13	Chain Link Fences and Gates
Section 32 31 19	Decorative Fencing and Gates
Section 32 33 00	Site Furnishings
Section 32 92 00	Turf and Grasses
Section 32 93 00	Plants
Section 33 05 00	Common Work Results for Utilities
Section 33 14 16	Site Water Utility Distribution Piping
Section 33 14 17	Site Water Service Utility Laterals
Section 33 14 19	Valves and Hydrants for Water Utility Service
Section 33 31 23	Sanitary Sewerage Force Main Piping
Section 33 46 00	Playground Subdrainage

Work Included but not limited to: (Provide all material, labor/installation, and equipment for the following, unless noted otherwise below)

1. Include a Payment and Performance Bond in the proposal for this scope of work.
2. All work/responsibilities as listed in the “General Scope Items - Applies to ALL Bidders” above.
3. Provide all material, labor, equipment, and mobilizations necessary to supply and install the complete Grading & Utilities scope of work, including but not limited to, site clearing & site demolition, stripping of topsoil, stockpiling topsoil, redistribution of topsoil, grading to proposed sub-grades for building pad and all pavements, utilities, including all related accessories, as per the documents and the below items, required for this project. Haul all excess topsoil and spoils, generated by this package off site.
4. Review and abide by all recommendations in the Geotechnical Report provided by Alt & Witzig Engineering, Inc. Refer to Section 00 80 00 Geotechnical Report in the Project Manual.
5. Contractor has visited the project site and is aware of existing conditions.
6. Include requirements per notes on the Civil drawings that apply to this Bid Package.
7. Protect adjacent building areas as required for your work, this includes dust control.
8. Include street cleaning for work under this Bid Package.
9. Contractor shall import fill materials (meeting the fill requirements of the Geotechnical Report) as required to meet proposed subgrades.
10. All excess or unused materials to be hauled off site and disposed of legally.

11. Provide all site dewatering for work within this bid package as to not delay the construction schedule. Refer to Geotechnical Report for water table elevations. Include well points as required to complete your scope of work.

Erosion Control

12. Provide a complete erosion control system as required by the contract documents and local requirements.
13. Develop, install, maintain, and remove (at the direction of Meyer Najem superintendent), and complete inspection reporting of erosion control per SWPPP for the duration of the project.
14. Provide, install, and maintain and remove construction entrance per SWPPP requirements.
15. Coordinate installation of silt fencing with the location with proposed utility installations and temporary construction entrance, fencing, gates that will surround the property boundaries. Modify erosion control as needed for all phases of the project. Reference the CM drawings.
16. Provide, install, and maintain all required inlet protection and rock rip rap measures for new and existing storm inlets.
17. Include removal of all temporary erosion control measures and correction of disturbed area from removal on a timetable as directed by the Site Superintendent.
18. Ensure all erosion control measures are installed/inspected prior to commencing earthwork and site demo activities.
19. Provide the following as shown on C501, C502, and as detailed on C520 and C521:
 - i. Silt Fencing
 - ii. Inlet Protection
 - iii. Temporary Seeding
 - iv. Erosion Control Blanket with Seeding
 - v. Gravel Construction Entrance
 - vi. Stone Staging Area
 - vii. ~~Concrete Washout Area~~
 - i. ~~It is the responsibility of this bid package to build, maintain, properly deconstruct, fine grade, and seed this, and all adjacent areas following construction. –~~
 - viii. Dumpster/ Recycling Area
 - ix. Port-O-Let Area
 - x. Outlet Protection
 - xi. Rock Donuts
 - xii. Construction Entrance
 - i. Provide and install temporary stone drives and staging areas as shown on the CM Drawings. Adjust grades accordingly for final stone elevations prior to performing asphalt and concrete pavements, if applicable. Contaminated temporary stone is not to be used as permanent stone. Remove any contaminated stone prior to final grading for pavement process. Coordinate locations with Construction Manager.
 - xiii. ~~By Others: Dumpsters, Port-O-Lets, Concrete Washout Dumpsters –~~ **Addendum 3**
20. Provide silt fencing/erosion control measures around all stockpile/material storage locations.

Site Clearing & Demolition

21. Provide site clearing and demolition per drawings C111 and C112, and as designated in the specifications above.
22. Provide Demolition Plan Notes 1-7, 10, and 15-22, per drawings C111 and C112.
 - i. For items 8, 9, 11, and 12: Protect applicable structures and utilities accordingly.
 - ii. Provide demolition per notes 13 and 19. Any new conduit, conductors, light pole bases, or light poles are to be the responsibility of bid package 11
23. Contractor to include clean sawcut of existing pavement (concrete & asphalt) where new pavement abuts.
24. Clear site (include grubbing, pavement removal, and other removal) as required to strip topsoil.
25. Strip and stockpile/haul off topsoil if required. **All excess topsoil – Addendum 3**

26. All material whether of salvageable value or not, must be hauled off site and disposed of legally, as work progresses.
27. It is the responsibility of this bid package to disconnect or coordinate disconnection for utilities prior to any demolition activities. Notify local utilities, Danville Community Schools **Hamilton Heights High School** and the Construction Manager prior to any utility shut down and removal. – **Addendum 3**
28. Backfill all removed utilities within pavement or building areas with compactable fill which meets requirements set forth in Geotechnical Report.
29. Include capping of all utilities as required after demolition activities are complete.
30. Completely fill below-grade areas and voids resulting from demolition operations with compactable structural fill. Refer to Geotechnical Report for structural fill requirements.
31. Include all traffic control required for demolition and proposed work per local and state requirements.
32. Remove/patch back fence at County Road for access drive. Reference CM drawings.

Grading

33. Ensure streets remain clean during the duration of this scope, clean as required.
34. After stripping topsoil material, removal of existing pavements, provide proof roll to determine locations of any pockets of unsuitable soil at building areas, drives and parking as required. Remediation for unsuitable soils will be determined at time of construction. Coordinate with Alt & Witzig recommendations in Geotechnical Reports.
35. Provide cut/fills for new sub-grades per plans for building pads, parking areas, asphalt paving, concrete paving, curbs, lawn areas, etc. Refer to Civil (C-Series) for existing and proposed grades and subgrade requirements.
36. Include re-spreading of topsoil to final grade (import additional topsoil as needed) per specifications **and drawings. – Addendum 3**
37. Contractor shall import fill materials (meeting the fill requirements of the Geotechnical Report) as required to meet proposed subgrades.
38. All excess or unused materials to be hauled off site and disposed of legally.
39. Provide all site dewatering for work within this bid package as to not delay the construction schedule. Refer to Geotechnical Report for water table elevations. Include well points as required to complete your scope of work.
40. Contractor shall include lime ~~modification~~ **cement stabilization** (5% lime ~~lime~~ **cement**) of the new building pad and the new pavement areas per below: - **Addendum 3**
 - i. Any cut areas, in locations as identified in iii. below, will need to be lime modified after reaching subgrade elevations, to a depth of 14”.
 - ii. At “fill” areas, in locations as identified in iii. below, all initial subgrades after removal of pavement and/or topsoil will need to be lime modified, to a depth of 14”. All additional lifts of fill materials shall also be modified, to a depth of 14”.
 - iii. Provide lime modification of the subgrade under all new building pads, standard and heavy-duty asphalt pavement, and heavy-duty concrete pavement areas.

Utilities - General

41. All work performed in strict accordance with all OSHA rules and regulations.
42. Protect all existing water main, gas main, storm lines, overhead power lines and telecom services.
43. Protect existing utilities and structures that are to remain, including newly installed utilities, during the sitework/earthwork activities. Notify all utility companies 5 days before construction is to start.
44. Provide all excavation and backfill for utilities. Provide and install all proper materials for utility trench backfill including all recommended lifts with proper compaction to meet the project requirements.
45. Coordinate with Electrical trade for new site lighting and conduit runs, if required.
46. Coordinate with Landscaping trade for new irrigation sleeve runs, if required.
47. Perform all required testing for this scope including but not limited to: leakage, infiltration, and defective testing.

- 48. All excess spoils from utility work excavation if not utilized to be hauled off-site to a suitable location (include hauling permit if required).
- 49. Where utilities are removed, relocated, or re-routed, this bid package is to provide temporary service and pumping, if necessary, as required to maintain service of this utility.
- 50. Any part of sanitary or storm sewer trenches running under or within 5' of paved areas are to be backfilled with compacted granular material, if required by the contract documents.
- 51. Contractor shall only excavate to the extent that the hole / trench can be backfilled on the same day. MNC / DCSC **HHHS** will not be responsible for unsuitable soils created by exposure to weather, due to premature excavations, or left open. – **Addendum 3**

Sanitary Sewer System

- 52. Provide and install a complete sanitary sewer system as shown and required to comply with local requirements as well. Tie in to existing sanitary manhole.
- 53. Plumbing Contractor to extend/continue sewer lines maximum of 5' outside the building perimeter. Extension/continuation beyond 5' will be the responsibility of the Utility Contractor herein. Reference "Plumbing Connection Detail" on sheet C503 and the plumbing drawings.
- 54. Provide all pertinent final connections to sanitary system.
- 55. Perform all testing as required.

Storm Sewer System

- 56. Provide and install all storm structures (water quality structures, manholes, inlets, grates, end sections, etc.) and concrete collars for a complete storm sewer system.
- 57. Provide connection and continuation of roof drain piping as required to connect to storm piping system. Verify locations with the Plumbing and Architectural drawings.
- 58. Reference the "Downspout Connection Detail" on sheet C503. Provide the "Manufactured Downspout Adapter," and everything down.
- 59. All inlet castings are to "environmentally friendly logos" for water quality awareness.
- 60. Provide and install all downspout connections and associated subsurface drain lines.

Landscaping

- 61. Provide plants, grasses, turfs as shown on the contract documents. Reference planting schedule(s) and layouts for additional information.
- 62. Include all planting/soil amendments as required. It is the responsibility of this scope to include any topsoil as indicated by the drawings and specifications, or as required for the completion of this scope of work.
- 63. Provide backfill of all materials provided by this scope (trees, shrubs, plants).
- 64. Provide site to finish grade prior to seeding or sodding.
- 65. Reference Civil/Landscape drawings for additional information pertaining to grading, plantings, seeding, sod, etc.
- 66. Provide all mulch, rock, or ground cover that is required.
- 67. Provide segmental retaining walls if shown.
- 68. Provide Lawn Restoration as noted in the civil drawings.
- 69. Provide permanent seeding where temporary work is removed (i.e., laydown areas, temporary sidewalks, etc.). Reference the CM drawings.
- 70. Provide permanent seeding shown on the erosion control plans (reference the civil drawings). Temporary seeding by ~~Bid Package 17 Grading & Utilities~~ **BP01 – Sitework – Addendum 3**.
- 71. Provide steel landscape edging & metal stakes per the documents.
- 72. Provide tree/shrub planting per the documents including rubber hosing, guy wires, galvanized turnbuckles, stakes, etc.
- 73. Provide and install all crushed stone as it is called out on the landscaping drawings and site plans. Coordinate installations with BP02 – Building and Site Concrete, as well as BP10 – Bleachers.

Fencing and Site Furnishings

- 74. This bid package is responsible for the installation of all fences and gates as shown on the drawings and outlined in specification sections 32 31 13 and 32 31 19. Coordinate spacing and locations of all masonry piers with BP-04 Masonry.
- 75. Provide and install all site furnishings as shown in the drawings including but not limited to; Litter Receptacles, Benches, Bike Racks, and Wind Sculptures.

Addendum 2 – 02/28/2024

Site Demo

- 76. Contractor to include demo note 1, listed on AD201.
- 77. Provide all demolition of exterior plumbing similar to that which is shown on PD101.

Erosion Control:

- 78. Contractor to include all SWPPP notes as listed on C510

Utilities:

- 79. Include notes W1-W9 on pages C401 and 402 of the drawings.
- 80. Coordinate notes G1 and G2 with utility provider on C401 and C402.
- 81. Include notes M1-M4 on C401 and C402.

Storm

- 82. Contractor to include all items listed on “Storm Structure Data Table”, shown on page C303

Landscaping/ Site Furnishings

- 83. It is the responsibility of this bid package to furnish and install the following items, listed on the “L” Series drawings.
 - i. **Athletic Equipment:** Items A1 and A2
 - i. It is the responsibility of this bid package to drill and anchor all components of netting and backstop systems associated with these assemblies.
 - ii. **Fencing:** F1 – F5
 - i. All core drilling for installation of fence posts at concrete sidewalks and surfaces is the responsibility of this bid package.
 - iii. **Gates:** G1-G10
 - iv. **Gravel Paving:** P5
- 84. Furnish and install all plantings and other landscaping items per the plant schedule listed on L400 and shown on L301 – L305.
- 85. Contractor to include railings shown at the concrete steps leading to the south stadium entrance.

Addendum 3 – 03/05/2024

- 86. Refer to alternate section 01 23 00 for alternates that affect this bid package.
- 87. This bid package is responsible for the selective demolition of masonry partitions within the high school, and adjacent areas including but not limited to plan notes 3,7,8,10,13,15, and 19 in the “AD” Series Drawings.
- 88. Contractor to provide and install all temporary bracing (prior- to and during demolition) that may be required for the demolition of masonry assemblies.
- 89. It is the responsibility of this contractor to provide any demolition and/ or relocation of the grandstands/ bleachers as a part of their scope of work under “Site Demolition”

Work Excluded:

- 90. Primary Construction Layout
- 91. Engineering
- 92. Soil Testing
- 93. Permanent Seeding
- 94. Utility Tap & Usage Fees
- 95. Stone Base Under Concrete and Asphalt

END OF BID PACKAGE #01 SITEWORK

BID PACKAGE #02 – BUILDING & SITE CONCRETE

Scope Specific Inclusions:

All work per Specification Sections

00 & 01 Complete	Bidding & General Requirements
Section 03 30 00	Cast-In-Place Concrete— ADD1 – Addendum 3 – Include in scope.
Section 03 30 01	Site Cast-In-Place Concrete
Section 03 35 00	Concrete Surface Treatment - Sealer
Section 03 35 19	Concrete Surface Treatment – Stain
Section 07 92 00	Site Wall Joint Sealants
Section 32 11 33	Granular Base
Section 31 13 16	Concrete Paving

Work Included but not limited to: (Provide all material, labor/installation, and equipment for the following, unless noted otherwise below)

General

1. All work/responsibilities as listed in the “General Scope Items - Applies to ALL Bidders” above.
2. Provide all material, labor, equipment, and mobilizations necessary to supply and install the complete Building & Site Concrete scope of work, including all related accessories, as per the documents and the below items, required for this project.
3. Provide all concrete other than as described in the specific exclusions below.
4. Refer to all drawing sheets for abbreviations and symbols, general notes, schedules that pertain to this scope (specifically, the civil, structural, and architectural drawings).
5. Provide all excavation as required for this scope of work (foundations and curbs **and thickened slabs**). – **Addendum 3**
6. Review and abide by all recommendations in the Geotechnical Report provided by Alt & Witzig Engineering, Inc. Refer to Section 00 80 00 Geotechnical Report in the Project Manual.
 - i. Remediation for unsuitable soils will be determined at time of construction. Coordinate with Alt & Witzig recommendations in Geotechnical Reports.
7. Provide backfill for this scope of work. Backfill all curbs, walks, interior and exterior side of foundations, interior and exterior side of curb islands, etc. Include backfilling of any below-grade CMU. Coordinate backfilling activities with the site superintendent.
8. Include haul off/disposal of all spoils created from this scope of work. All excess or unused materials to be hauled off site and disposed of legally.
9. Provide all site dewatering for work within this bid package to not delay the construction schedule.
10. Provide winter conditions if required. Refer the Construction Schedule in the Project Manual.
11. Include labor and equipment to unload and install all reinforcing materials (rebar, wire mesh, fiber, etc.) and accessories. Accessories include but are not limited to: rebar supports, chairs/bricks for setting and rebar accessories, caps, etc., per specification sections.
12. Provide all forming and placement methods (pumping etc.) as required per the contract documents.
13. Provide all layout for this scope of work. Reference Field Engineering spec in the Project Manual.
14. ~~Concrete washout area to be provided by bid package 1. Coordinate service requirements with corresponding contractor.~~ – **Addendum 3**
15. This scope shall be responsible for cleanliness of treads and tires on equipment prior to moving across roadways. Include cleaning of adjacent streets/drives from dirt during the concrete operations.

16. Provide all architectural finishes of concrete including rubbing, smooth forms, colored concrete, or other finishes as defined by the documents.
17. Provide all concrete per the contract documents. Include specified mix designs, expansion joints, control joints, curing materials, hardener/sealers, etc. for a complete installation.
18. Provide and install all stone required or shown under/at concrete locations.
19. Include material and installation of all expansion material which abuts concrete provided by this scope of work.
20. Provide installation of embedded items, provided by others (ex. embeds, sleeves, angles, etc.).

Building Concrete

21. Provide all building concrete including but not limited to: foundations, piers, slabs on grade, elevated slabs, stair pans, walls, thickened slabs, footings, stoops, diamond infills, etc.
 - i. Equipment pads are by others.
22. It is this trade's responsibility to determine if footings need to be formed. No cost adjustments will be provided for forming of footings for any reason.
23. Coordinate with the Fire Protection, Mechanical, Electrical, Plumbing (FMPE) trades installing under-slab MEP.
24. This Bid Package is to provide an anchor bolt survey. ~~BP05 Steel will set the anchor bolt elevations.~~ – **Addendum 3**
25. Include setting of all steel column anchor bolts in concrete at structural steel column locations shown per structural plans. Anchor bolts will be provided by BP05 – Steel.
26. Refer to structural drawings for anchor bolt sizing and quantities.
27. Set all vertical, reinforcing for piers as required.
28. Providing grouting of all base plates.
29. Provide and install all required free-draining granular base for the building slab, per notes on documents.
30. Provide and install vapor barrier under building slab.
31. Provide and install foundation insulation under building slab **and vertically as shown in the drawings.** – **Addendum 3**
32. Provide and install all required control joints and diamonds at columns in slabs on grade, per drawings and details.
33. Provide recessed concrete at locations indicated on the drawings (reference finish plans).
34. Cutting and patching of existing concrete slabs for MEP work is by the MEP trades.
35. Provide touch-up grading of building pad prior to placement of stone subbase.

Site Concrete

36. Provide all site concrete including but not limited to: ramps, walks, curbs, pavement, integral walks and curbs, exterior equipment pads, dumpster pads, ~~truck dock retaining walls etc.~~ – **Addendum 3**
37. Refer to architectural civil, and landscaping drawings for locations and details pertaining to site concrete.
38. Provide and install all required ADA ramps/walks where concrete walks transition to road ways or parking lots. Truncated domes to be provided and installed per the local jurisdiction's requirements.
39. Provide and install all required site concrete paving.
40. Saw cut all control joints at concrete pavement, curbs and sidewalks as required.
41. Layout, set, and fill concrete pipe bollards. Steel bollards provided by BP05.
42. Provide installation and removal of the temporary sidewalks noted on the CM drawings.

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Site Concrete

43. It is the responsibility of this bid package to include all of the following site concrete items, as they are shown on the “L” Series Drawings.
 - i. Curbs: C1 – C4
 - ii. Concrete Pavement: P1 – P2
44. Ramps: R1-R4, as shown in the site plans, and as detailed on L602
45. Contractor to provide assemblies per the site details listed on L600.
46. Contractor to include curb shown at existing baseball field, as detailed on 5/L601
47. Include retaining walls as detailed on 2/L601
48. Contractor to include E5 Internal Cure and E5 Catalyst at all walks and curbs.

Building Concrete

49. Include elevated benches called out on A251OB with plan note 3.
50. Include isolated thickened slab under washer and dryer, as noted by plan note 5 on A251OB.
51. Contractor to include E5 Internal Cure and E5 Catalyst at all slabs.

Addendum 3 – 03/05/2024

Additional Specification Sections:

Section 03 35 00	Concrete Surface Treatment – Sealer
Section 03 35 19	Concrete Surface Treatment – Stain

52. Include a performance and payment bond.
53. It is the responsibility of this bid package to provide concrete washout dumpster/ area.
54. Contractor to include work shown at the monument sign, along SR 19.
55. Provide and install relocated transformer pad.

Work Excluded:

1. Rough Grade of Building Pad
2. Concrete Testing
3. Asphalt
4. Parking Signage
5. Curb Stops
6. MEP Equipment Pads
7. Site Lighting Pole Bases
8. Joint Sealants
9. MEP Cut and Patch of Existing Concrete
10. Equipment pads, light pole foundations, bleacher foundations
11. Fence Post Foundations – Will be provided by 01 – Sitework – ADD2
12. 4/L601 – to be provided by 01 – Sitework – ADD2

END OF BID PACKAGE #02 – BUILDING & SITE CONCRETE

BID PACKAGE #03 – ASPHALT PAVING

Scope Specific Inclusions:

All work per Specification Sections:

00 & 01 Complete	Bidding & General Requirements
Section 32 11 23	Granular Base
Section 32 12 16	Asphalt Paving
Section 32 17 23	Paving Marking

Work Included but not limited to: (Provide all material, labor/installation, and equipment for the following, unless noted otherwise below)

General

1. Include a 100% Material Payment and Labor Performance Bond in the proposal for this scope of work.
2. All work/responsibilities as listed in the “General Scope Items - Applies to ALL Bidders” above.
3. Provide Asphalt Paving for the entire project, including but not limited to Heavy Duty, Light Duty, ROW, paths etc. Provide all aggregate base for each asphalt application.
4. Provide pavement markings including but not limited to parking stalls, cross walks, stop bars, lane markings, ADA stalls, curb painting, hatching, etc. Provide all colors as indicated.
5. Provide all curb stops as they are shown in the drawings.
6. Provide all traffic signage per the documents. Provide ~~steel bollards~~, concrete, and bollard sleeve for signposts as detailed. – **Addendum 3**
7. Provide mobilizations to complete this Bid Package. Reference the CM drawings for phasing.
8. Provide traffic control for own work, including any required barricades, flag person(s), signage and all requirements per local codes.
9. Provide acceptance of subgrade elevations prior to proceeding with installation of stone. If work proceeds, that is considered acceptance, and no additional monies will be paid for any additional work associated with correcting grade or finish elevation of this scope’s assemblies.
10. Provide asphalt patching as required per the drawings and specs. Contractor to include any additional asphalt patching that is shown on the CM phasing drawings (if applicable).
11. Provide temporary & touchup striping as required.
12. Prepare ADA accommodations (i.e. transitions at ADA ramps, ADA parking, etc.) as necessary at temporary binder areas. Reference CM drawings. Also prepare cold patch at storm drains and manhole covers such that it does not hook a snow plow.
13. This bid package shall include the first 5% of material cost escalations from date of bid to date of placement for the Asphalt Binder and Top Coat. This bid package shall provide dated/job specific material invoices for the Asphalt Binder/Top Coat materials within 24 hours of the bid opening to Meyer Najem Construction, LLC. These documents will be used as a cost basis for the compensation of asphalt escalation at the time of placement. This project has multiple mobilizations, and at each placement of Binder and/or Top Coat material costs invoices (dated and job specific) shall be sent to Meyer Najem Construction, LLC, within 15 business days, to validate cost premiums/escalation from date of bid. The cost premium experienced beyond 5% shall be covered via change order. Should documentation not be provided within 24 hours of bid and/or 15 business days of placement, this escalation provision will be considered VOID and no reimbursement will take place.

Addendum 2 – 02/28/2024

14. Contractor to include P4a and P4b as shown in the “L” Series Drawings.
15. It is the responsibility of this bid package to include all parking signage and striping as indicated in the drawings (S1 – S4) and all associated details.

Work Excluded:

- 16. Materials Testing
- 17. Rough Grading
- 18. Excavation
- 19. Sawcutting
- 20. Curbs
- 21. Control Point Layout/Staking

END OF BID PACKAGE #03 – ASPHALT PAVING

BID PACKAGE #04 – MASONRY

Scope Specific Inclusions:

All work per Specification Sections

00 & 01 Complete	Bidding & General Requirements
Section 04 20 00	Unit Masonry
Section 07 21 00	Thermal Insulation
Section 07 25 00	Weather Barrier
Section 07 27 26	Fluid-Applied Membrane Air Barriers

Work Included but not limited to: (Provide all material, labor/installation, and equipment for the following, unless noted otherwise below)

1. Include a Payment and Performance Bond in the proposal for this scope of work.
2. All work/responsibilities as listed in the "General Scope Items - Applies to All Bidders" above.
3. Provide all CMU walls, below grade and above, interior and exterior, where indicated. Include installation and removal of temporary bracing at CMU walls per applicable rules/regulations and industry standards.
4. Provide all unit masonry where shown. Reference elevations, sections, and plans for additional information and details. Provide all stone caps, sills, and accents.
5. Perform layout for all masonry walls. All interior/exterior masonry wall construction layout to be the responsibility of this scope of work unless noted otherwise. Pinning of exterior building corners will be provided by the Construction Manager.
6. Include all stone masonry including but not limited to sill, copings, banding, etc. In general, but specifically where stone masonry is in contact or installed below grade provide and install the necessary sealers/barriers application as required.
7. Receive and install steel lintels, angles, lateral support angles, etc. furnished by Bid Package 05 Structural Steel.
8. Provide and install all required masonry precast lintels, built-in place masonry lintels made from bond beam CMUs with reinforcing based and grout.
9. Provide complete washing and cleaning of all masonry materials and any residual grout, brick, or stone materials on adjacent areas/surfaces.
10. Provide flashings, flashing tape, drip edge, mortar net, weep, ties, anchors, control joints, etc. (all masonry accessories).
11. Masonry Contractor must work and coordinate their scope with exterior sheathing/waterproofing trade for installation of masonry ties, flashings and any other items that must penetrate walls to ensure a complete weatherproof system.
12. Provide mortar and grout for all masonry applications.
13. Provide and install all masonry reinforcement/rebar.
14. Grout cells of CMU as required per documents or industry standards (whichever is more stringent).
15. Provide all rigid insulation ~~where masonry material is the substrate~~ and fluid applied air vapor barrier. – Addendum 3
16. Reference interior finishes and include all masonry finishes depicted. Include all interior masonry as indicated.
17. Provide grouting of doors frames scheduled to go in masonry walls.
18. Refer to and include all masonry scope indicated in the Structural and Architectural drawings. – Addendum 3
19. This Contractor is to replace and install all masonry plugs cut out for grouting clean outs. Repair all plugs with non-shrink grout and replace damaged faces of masonry that are exposed.
20. All walls shall be grouted as called for in the documents. All wall clean outs below surface of the concrete slab or paving shall be provided on the exterior of wall. All upper-level clean outs above

- slab on grade shall be provided on interior face of wall behind furred gypsum walls. No clean outs are to be provided on the exposed exterior face of masonry.
21. This Contractor shall provide all CMU lintels, bulkheads, supports or other form work elements required to hold wet grout in cells during grouting operations.
 22. Provide all masonry control joints at required locations.
 - i. If A masonry wall sits on top of the slab, the bottom mortar joint shall be raked at all areas where base is NOT scheduled, so the joint may be caulked.
 23. Grout installation must be coordinated with Meyer Najem at a minimum of 24 hours in advance to allow for third party testing to occur.
 24. Contractor shall review and include the Typical Details as shown on Drawings S401 through S701OB.
 25. Cut block as required to return to normal coursing in all locations indicated in the Contract Documents.
 - i. All CMU walls that do not layout in full or half lengths shall be balanced so as not to have any pieces less than 4" in size exposed to view.
 26. Starting of CMU foundations indicates this package accepts proposed sub grade elevations installed under BP-06 – General Trades.
 27. Masonry Contractor to hold dimensions for exterior windows and doors due to lead time of those materials. Information on dimensions to be provided during submittal phase.
 28. No permanent layout markings will be allowed in areas that have a Sealed Concrete Finish per the Finish Drawings. These areas are to be kept free of markings to NOT affect the long-term aesthetic of the flooring surface.
 - i. This bid package shall provide adequate floor protection at new slabs that remain exposed / "Sealed Concrete" during wall construction. Any damages caused will be this bid packages responsibility to remedy.
 29. Once masonry foundations are scheduled to begin this Bid Package shall provide all de-mucking required for this scope of work, to not delay the project schedule and sequencing.
 - i. Initial cleaning of footings, immediately after pouring, will be performed by BP06 – General Trades.
 30. Coordinate with the Owner, Design Team, Construction Manager (MNC) on locations of bullnose block requirements. A general rule of thumb to assume for bidding shall be outside corners, unless there is a piece of equipment within an alcove called out. Coordinate with MNC and the Design Team for exceptions as it relates to Food Service Equipment Alcoves, etc. Reference wall type notes on Drawing A200 for additional requirements.
 31. At the end of each day's work protect the masonry with waterproof sheeting.
 32. Ensure that no mortar contacts with exposed concrete surfaces or other finished materials.
 33. Provide for the shoring and bracing of masonry work if required for its proper completion.
 34. All exposed masonry work is to be properly tooled, pointed, and cleaned as required, and if applicable, work must be suitable for painting.
 35. This contractor will keep the cavity clear of all material including but not limited to mortar, paper, etc.
 36. Any damage to sub grade (e.g., lulls around perimeter of building) caused by this bid package is to be re-established to proper sub grade by this contractor.
 37. This contractor shall allow access by other trade contractors on its scaffolding at masonry walls. If required by this Bid Package #04 contractor, it shall secure any necessary liability releases directly from the other Contractors prior to allowing access on the masonry scaffolding.
 38. Provide and maintain all mushroom rebar caps at all vertical rebar including dowels installed by others when masonry work is not ongoing, at the immediate work areas.
 39. Contractor shall include cleanup of masonry mixing / staging area – removal of unused materials, sand, mortar, etc.
 40. This bid package shall coordinate drip flashing / weeps of exterior walls with new exterior building grades to ensure proper elevation coverage over the adjacent soils, concrete, etc.
 41. Coordinate all wall layout, opening sizes etc. with approved shop drawings. Coordinate/Access via Procore.

42. This bid package shall be responsible for cleaning ALL masonry prior to aluminum storefront and/or window assemblies being installed to eliminate warranty issues with opening manufactures finishes.
43. This bid package shall be responsible for understanding the locations of electrified door hardware and systems. Coordination with corresponding trades shall be paid special attention to. This effort will ensure rough ins are installed in the correct locations, concealed in masonry, within door frames, etc. The performing contractor of this bid package shall notify the Construction Manger if any of the involved parties of these assemblies are not providing adequate manpower to ensure systems are being roughed in properly.
44. Coordinate locations and install access doors and frames that are shown on the drawings and occur in masonry walls. Materials will be provided by BP06 – General Trades.
45. This Contractor shall grout all hollow metal door frames, installed by BP06 – General Trades, that occur in masonry walls.
46. Include all toothing, patchwork, infill, etc. required around frames, fire extinguishers cabinets, j-boxes, etc. installed within brick and concrete masonry construction.
47. Furnish and install brick piers adjacent to F4 fencing, as called out in the L series drawings.

Insulation and Air Vapor Barrier

48. Provide and install all rigid insulation per the drawings and Specification Section 07 21 00 and as required for a complete exterior wall assembly as detailed in the construction documents. This applies to all CMU and metal stud exterior wall and soffit assemblies requiring rigid insulation, ~~except behind the 07 42 13 – Formed Metal Wall Panels and 07 42 43 – Metal Composite Material Wall Panels, that will be furnished and installed by BP-08 – Metal Wall Panels.~~ – **Addendum 3**
49. Provide and install complete fluid applied membrane air barrier as shown in the drawings and as outlined in 07 27 26. It is the responsibility of this bid package to provide a complete, continuous system throughout.
 - i. It is the responsibility of this bid package to include fluid- applied membrane barriers at both masonry, and metal stud/ gypsum sheathing walls. Tie new assemblies into existing structure as required for a continuous system.
 - ii. Coordinate with corresponding bid packages for windows, aluminum storefront, doors, metal panels, etc.
50. Provide and install ALL through wall flashing assemblies required for the project. Coordinate with other trades to ensure a water/airtight assembly.

Addendum 2 – 02/28/2024

51. Include all masonry components for the monument sign, shown on 5/A251OB.
52. Contractor to include foundation walls shown on A101OB **and as shown on the structural drawings.** – **Addendum 3**
53. Furnish and install wall sleeves as detailed on 14/S401.
54. Provide all embeds for installation by BP02 – **Concrete** similar to that which is shown on 20/S401, S601, and S601OB.
55. It is the responsibility of this bid package to install all structural steel components as they are shown interfacing with masonry assemblies on S701 and S701OB. BP05 - **Steel** to include components for installation. – **Addendum 3**
56. ~~This bid package is responsible for the selective demolition of masonry partitions within the high school, and adjacent areas including but not limited to plan notes 3,7,8,10,13,15, and 19 in the “AD” Series Drawings.~~ – **Addendum 3**

Addendum 3 – 03/05/2024

- 57. This bid package is responsible for all brick façades as they are shown in the drawings and outlined in the specifications. Contractor to include brick and grout as they are noted in the specifications.
- 58. Contractor to provide masonry patching as required at demo scars at both interior and exterior walls. Coordinate extents of demolition with BP-01
- 59. Contractor to include rigid insulation and air vapor barrier behind metal panel and/ or ACM panel assemblies.

Work Excluded:

- 60. Testing
- 61. Setting of door frames. (BP06 – General Trades shall furnish and install all door frames)

END OF BID PACKAGE #04 – MASONRY

BID PACKAGE #05 – STRUCTURAL STEEL

Scope Specific Inclusions:

All work per Specification Sections

00 & 01 Complete	Bidding & General Requirements
Section 05 12 00	Structural Steel Framing
Section 05 21 00	Steel Joist Framing
Section 05 31 00	Steel Decking
Section 05 50 00	Metal Fabrications

Work Included but not limited to: (Provide all material, labor/installation, and equipment for the following, unless noted otherwise below)

1. Include a Payment and Performance Bond in the proposal for this scope of work.
2. All work/responsibilities as listed in the “General Scope Items – Applies to ALL Bidders” above.
3. Provide all steel framing and decking material, labor, equipment, mobilization, fasteners, accessories, and safety measures for a complete installation as a guaranteed material & labor lump sum turnkey price.
4. Provide all detailing, fabrication, and erection of all Structural and Miscellaneous Steel by this Bid Package.
5. Include all time required for completion of shop drawings (structural, miscellaneous, joist, metal decking, etc.) and all necessary field measuring.
6. Provide all required structural and miscellaneous steel as indicated in the complete drawings set including all civil, structural, architectural, and mechanical drawings.
7. Provide all steel plates, bracing, angles, clips, etc. based on the notes, tables, etc. as scheduled and shown in the structural “S” series drawings.
8. Include all steel angles, channels, tubes, plates, clips, and other similar items shown on the architectural drawings for a complete steel scope of work and include all other similar and like conditions which indicate materials provided/installed by this scope.
9. Provide steel joists in accordance with the drawings and specifications.
10. Provide all required steel roof decking as specified in accordance with the drawings and specifications.
11. For items embedded in concrete or masonry materials this scope of work is responsible for material delivery only, non-embedded materials provided by this scope of work are to be supplied and installed.
 - i. This Bid Package is responsible for coordinating delivery of all furnished material for hand off to the other Bid Packages who will be installing the material. It is the responsibility of this Bid Package to get written sign off for delivered materials to alleviate them from being held responsible for replacement costs of missing materials.
12. Provide pour stops at all deck edges/edge supports and penetrations, even if they are not indicated on the documents.
13. Provide and furnish all anchor bolts, leveling nuts/washers and/or steel shims (or combination thereof) as required and scheduled on drawings. Anchor bolts embedded in concrete will be installed by others.
14. Provide and install any anchor bolts required to be drilled, epoxied, or similar attachment.
15. Contractor shall be responsible for providing all framing as required for roof and ~~slab-on-deck~~ penetrations as per the contract documents. Refer to all drawings including structural, architectural, and mechanical/plumbing drawings. – **Addendum 3**
 - i. This Bid Package shall coordinate with the Roofing contractor and MEP contractors to create a layout drawing with dimensions off structural grid line for installation of openings.
 - ii. Metal deck shall be installed over all openings in the structure and cut out at the completion of this scope.

16. This scope of work is responsible for all metal (aluminum and steel) stairs, ~~rails~~, bollards, overhead door jambs and heads, operable partitions support, roof screen framing, elevator hoist beam and pit ladder, lintels (install by other). – **Addendum 3**
17. Refer to all “A” series architectural drawings and include all structural and miscellaneous steel shown.
18. Refer to all “C” series civil drawings and include all structural and miscellaneous steel shown including but not limited to:
 - i. Site Handrails. Furnish Only.
 - ii. Site Bollards. Furnish Only.
 - i. Sign post bollards/ inserts to be provided by Asphalt bid package.
19. Structural steel contractor to furnish ALL steel lintels, angles, plates, etc. for the masonry contractor to install.
 - i. Furnish lateral support angles/plates at slab on deck (if shown).
20. Furnish lintels and openings for all duct penetrations 12" and larger, coordinate w/ mechanical contractor prior to wall construction, refer to mechanical sheets.
21. Contractor to provide preparation and coatings (primer, galvanizing, etc.) of interior and exterior steel as indicated in the contract documents. Include touchup and repair as required by the documents.
 - i. Include steel galvanizing as scheduled, include a plan to maintain galvanized material integrity after connections are complete.
 - ii. All steel to have applicable primer per specifications/drawings.
 - iii. Provide touch-up primer paint.
 - iv. It is the responsibility of this contractor to coordinate and select a suitable and adequate primer that is compatible with the future topcoat finish applied by Bid Package 6 General Trades– **Addendum 3**
22. This Bid Package shall carry all costs and the scope responsibility associated with providing, maintaining, and removing temporary crane pads as required for their scope of work. The locations, design and quantity shall be determined by this bid package as they are responsible for the erection of structural steel.
 - i. Include crane size sufficient to set steel from **outside of exterior foundation** wall. Driving crane into the interior building area will not be allowed.
 - ii. Crane mats or enhancements required for crane support shall be responsibility of this trade.
 - iii. All rigging must be tagged and swinging of steel shall closely monitored so not to swing over occupied structures or other activities.
23. Contractor shall include costs as necessary to generate and submit “expedited” shop drawings for the entire package (if required), as outlined in the Preliminary Schedule and CM Drawings.
24. Design and detail all moment connections as well as snow, wind/seismic, earthquake and moment resistant connections as required that meets or exceeds state and local codes.
25. This Bid Package is to engage a state-registered engineer for structural steel connections, steel stairs, shoring, bracing, etc., including but not limited to drawings and stamped calculations, as required by the construction documents.
26. Provide, maintain, and remove temporary safety railing per the Temp Facilities matrix. Provide all leading-edge protection for the building addition. Leading edge protection of the existing building areas will be by Bid Package 6 General Trades. – **Addendum 3**
27. Structural steel to be installed by an experienced installer per project specifications.
28. Adhere to AISC requirements as listed in the documents.
29. Provide 3D BIM Model of new steel members for coordination with other trades in accordance with Specification Section 01 32 50 – BIM Coordination.
30. Include blocking **coordination** as required to ensure in wall blocking is adequately placed for installation of steel railings.
31. This Bid Package is responsible for setting anchor bolt elevations. Building & Site Concrete will provide the anchor bolt survey.

Addendum 2 – 02/28/2024

- 32. Contractor to furnish and install “Aluminum Ships Ladder” as called out on plan note 7/A251OB.
- 33. Ensure all structural steel and decking has been picked up at the ticket booths, monument sign (Painted Steel), elevator shaft/ mechanical room, locker room, AG expansion, and (Alt work) Admin Addition.

Addendum 3 – 03/05/2024

- 34. Reinforce existing roof structure as indicated on sheet S201 and detailed on 10/S101 – Include for alternate pricing.

Work Excluded:

- 35. Casework and furniture support steel and rack systems.
- 36. Grouting of base plates.
- 37. Concrete fill for metal pan treads.
- 38. Cold-formed metal framing
- 39. Pipe and Tube Railings – Aluminum
- 40. Work associated with the bleachers/ grandstands

END OF BID PACKAGE #05 – STRUCTURAL STEEL

BID PACKAGE #06 – GENERAL TRADES

Scope Specific Inclusions:

All work per Specification Sections

00 & 01 Complete	Bidding & General Requirements	Section 09 67 00	Fluid-Applied Flooring
Section 03 35 00	Concrete Surface Treatment – Sealer Addendum 3	Section 09 68 13	Tile Carpeting
Section 03 35 19	Concrete Surface Treatment – Stain Addendum 3	Section 09 72 00	Wall Covering
Section 06 10 53	Wood Blocking	Section 09 91 23	Interior Painting
Section 06 16 00	Wood Wall Sheathing	Section 09 96 00	High-Performance Coatings
Section 07 21 00	Thermal Insulation	Section 10 11 00	Visual Display Units
Section 07 21 19	Spray Foam Insulation – Addendum 3	Section 10 14 16	Plaques
Section 07 84 13	Penetration Firestopping	Section 10 14 19	Dimensional Letter Signage
Section 07 84 46	Fire-Resistive Joint Systems	Section 10 14 23	Panel Signage
Section 07 92 00	Joint Sealants	Section 10 21 13	Toilet Compartments
Section 07 95 00	Expansion Control	Section 10 26 00	Wall and Door Protection - Corner Guards
Section 08 11 13	Hollow Metal Doors and Frames	Section 10 28 00	Toilet, Bath, and Laundry Accessories
Section 08 14 19	Flush Wood Doors	Section 10 43 13	Defibrillator Cabinets
Section 08 31 13	Access Doors and Frames	Section 10 44 13	Fire Extinguishers and Cabinets
Section 08 33 13	Coiling Counter Doors	Section 10 50 00	High Density Athletic Storage
Section 08 33 23	Overhead Coiling Doors	Section 10 51 13	Metal Lockers
Section 08 41 13	Aluminum-framed Entrances and Storefronts	Section 11 23 00	Laundry Equipment
Section 08 71 00	Door Hardware	Section 11 31 00	Residential Appliances
Section 08 80 00	Glazing	Section 11 52 13	Projection Screens
Section 08 87 00	Glazing Film	Section 12 24 13	Roller Window Shades
Section 08 91 19	Fixed Louvers	Section 12 32 16	Manufactured Plastic-Laminate- Faced Casework
Section 09 30 00	Tiling	Section 12 36 13	Epoxy Resin Tops
Section 09 51 13	Acoustical Panel Ceilings ADD2	Section 12 36 16	Metal Countertops
Section 09 65 13	Resilient Base and Accessories	Section 12 36 63	Solid Surface Countertops
Section 09 66 23	Resinous Matrix Terrazzo Flooring	Section 14 24 00	Hydraulic Elevators

Work Included but not limited to: (Provide all material, labor/installation, and equipment for the following, unless noted otherwise below)

General

1. Include a Payment and Performance Bond in the proposal for this scope of work.
2. All work/responsibilities as listed in the “General Scope Items - Applies to All Bidders” above.

Addendum 2 – 02/28/2024

Addendum 3 – 03/05/2024

3. This Contractor shall be responsible for including an onsite General Superintendent for supervision and coordination, at all instances where either self-perform or subcontract work that is under this Bid Package's scope of work is present on site. This includes receiving and unloading materials.

Temporary Work

4. Provide the following. Reference the CM drawings and phasing.
 - i. Provide temporary enclosures at all window locations.
 - ii. Provide temporary enclosures at all bump-out window locations. Reference Detail A on CM-09.
 - iii. Provide leading edge protection of all existing conditions being re-worked (perimeter safety rails at roof, second floor, floor openings, controlled access zones, etc.).
 - iv. Provide temporary toilets/ Port-O-Lets
 - v. Provide all mowing, trimming, weeding, etc. within construction fence areas for the duration of the project.
 - vi. Provide and maintain all dumpsters and recycling containers throughout the entire project **for all trades. – Addendum 3**
 - vii. Provide temporary stairs, guardrails, walkways to accommodate ALL construction activities (activities for all Bid Packages).
 - viii. Provide, maintain and locate fire extinguishers per OSHA.

Selective Demolition

5. Provide all selective building demolition per the Architectural Demolition drawings and specs.
 - i. Provide all interior demolition as required to accept new work including, but not limited to, walls/partitions, soffits, bulkheads, ceilings, doors & frames, casework, windows, floors, flooring, wall base etc.
 - ii. Demolition by others:
 - i. Site Demolition - BP01 - Sitework
 - ii. Roof Gutters – BO-07 - Roofing
 - iii. Structure Demolition – BP01 - Sitework
 - iii. The MEP trades will make safe, cut, cap, and dispose of all MEP demolition items.
 - iv. The MEP trades are cutting and patching concrete as needed for their MEP work.
 - v. Provide Demolition Plan Note 6 on the Site Demolition Plans.
6. Include all notifications, wrecking/demo permits as required.
7. Coordinate with Meyer Najem and Hamilton Heights Schools for existing utility service disconnects as required.
8. All demolition items/debris to be removed from site unless noted otherwise. Dispose of legally.
9. Coordinate demolition sequence with the Meyer Najem superintendent and other trades as required. (Reference CM drawings for phasing)
10. Means and methods to protect existing conditions to remain from demolition activities as necessary.
11. Provide and manage dumpsters for all demolition debris.
12. Provide means and methods to remove all demolition debris out of building. Include floor protection, continual dust removal and mopping, dust abatement, etc.
13. Refer to the Architectural and Mechanical demolition plans. Provide all interior selective demolition as required for installation of new MEP systems. General Trades contractor to consult with BP-09 **Metal Studs, Drywall, and Ceilings** to ensure a seamless reinstallation of all metal studs, drywall, and ceilings. **– Addendum 3**
14. ~~Contractor to provide all concrete and flooring demolition as required for MEP systems. See "Flooring" section for more information. – Addendum 3~~

Rough Carpentry

15. Provide all in- wall blocking for interior wall- mounted fixtures, to be installed by this scope of work.

16. Provide all exterior blocking as shown in the drawings. Include in all locations, whether shown or implied, for elements including but not limited to; exterior metal panels, roofing components, MEP items, etc.
17. Include all interior and exterior plywood sheathing as it is shown on the drawings and implied in the specifications.
18. ~~Provide~~ — **Addendum 3**

Casework

19. All fasteners, adhesives, sealants, fillers for materials provided by this scope of work.
20. All out of wall blocking as required for installation of materials provided by this scope of work.
21. Field measuring prior to fabrication.
22. All materials installed by this scope of work are to be installed level and plumb.
23. The scope is responsible for all tack boards that are within or adjacent to casework installations.
24. Provide templates for all work in which coordination between other trades is necessary to incorporate MEP systems, accessories, equipment etc. into the materials provided by this scope of work. Including but not limited to Casework islands, information desks, reception desks and other similar casework fabrications.
25. All cut outs for sinks and faucets where required. Coordinate sizes with plumbing specifications/trade.
26. Include finished sides and back of all casework/millwork where exposed.
27. Reference all specifications, finish plans, finish legends etc. for material finish requirements.
28. Finish Carpentry including but not limited to: wood trim, paneling, casings, molding, chair rail, base, handrails, sills etc.
29. All wood finish carpentry items installed shall be prefinished (stained or painted per finish requirements). Putty and touch up all fastener holes after installation.
30. All casework fabrications including but not limited to: wall & base cabinets, countertops, fixed and operable shelving, open wall cabinets, soffits, mail slots, valances, swing gates, toe kicks, splashes, transaction tops, wall caps, bathroom vanity and below counter guards, coat rods and shelves, etc.
31. Includes in- wall metal countertop supports as shown in the drawings. Please coordinate installation with metal stud and drywall contractor.
32. This scope of work is responsible for glass that is integral to any door, drawer etc. relating to their work.
33. Provide and install all supplemental framing required for installations such as receptions desks and other similar conditions for a complete finished system.
34. Include all hardware as for materials provided by this scope of work including but not limited to hinges, pulls, guides/slides, stops, locks (include all keying and cylinders as specified), grommets, trays, shelves, adjustable shelf supports, hanger rods, hooks (if located on or within casework), clips, bumpers, countertop supports/brackets, standoffs, etc. for a complete installation of materials provided by this scope.
35. Filler pieces and reveals for materials provided by this scope.
36. Include all edge profiles and seaming material for each type of countertop provided by this scope work.
37. Solid surface fabrications including but not limited to: countertops, splashes, worktops, sills, transaction tops, wall cap/tops, etc.
38. Include integral solid surface sinks (plumbing fixtures, connections by plumbing contractor)
39. Include all supports and brackets as required.
40. Include all resinous tops as shown in the drawings.

Sprayed Insulation

41. ~~Provide per the drawings and the specs. Provide protection of adjacent surroundings to prevent overspray. Provide cleaning of overspray and material that falls to the floor.~~ — **Addendum 3**

Firestopping

42. Provide firestopping in new and existing walls per the drawings and specifications. Reference the Life Safety Plan, Floor Plans, Wall Partition Types, and Wall Sections/Detail sheets for details.

43. Provide Firestopping at all top of walls, bottom of walls, and slab edges, if required. Fire Suppression, Mechanical, Electrical, and Plumbing (FMEP) penetrations in new and existing walls will be by the FMEP Bid Packages.
44. Provide fire resistive joint systems equal to the wall rating at all wall head/floor intersections with rated assemblies.

Caulking

45. Provide all caulking per the drawings and specs except as excluded below.
46. Provide caulking of exterior flatwork, concrete to building, expansion joints in concrete, bollard base perimeters, etc.
47. Provide caulking of interior and exterior masonry control joints.
48. Provide caulking where dissimilar materials meet, including but not limited to EIFS, masonry, soffit perimeters, etc. Exterior caulking around window perimeters is by Bid Package 14 Glazing.
49. Provide slab on grade isolation joint detail sealant, if required.
50. Provide caulking of interior perimeters of exterior aluminum entrances and storefront. Exterior perimeter by Bid Package 14 Glazing). Provide caulking of interior [and exterior of](#) storefront. - [Addendum 3](#)
51. Provide caulking of plumbing fixtures to walls and floors.
52. Provide caulking of fixed casework and countertops to wall surface.
53. Provide backer rod where required.

Doors, Frames, and Hardware

54. Provide and install all doors, frames, and hardware for the project except as excluded below.
55. Review Section 01 73 30 Electronic Door Hardware Coordination. Provide and install that which is called out in this specification and shown in the drawings. LV wiring to be performed by BP-18 [BP-13 - Electrical. Addendum 3](#)
56. Provide and install door vision kits.
57. Provide and install glass for vision kits as listed below in "Glass and Glazing"
58. Provide fire and smoke ratings of doors, frames, and hardware per the Fire/Smoke Ratings denoted by the Wall types, the Floor Plans, and the Life Safety Plans. The most stringent shall govern.
59. Provide unloading, staging, and installation of the delivered doors and hardware provided by this scope of work.
60. Delivery of materials provided by this scope to the job site shall be in accordance with the Construction Schedule and phasing requirements (reference CM Drawings) as determined by the Site Superintendent or Project Manager. Materials delivered shall be palletized or grouped in logical order for the installation/sorting sequence and all items are to be clearly labeled by opening number.
61. Provide all keys, cylinders, and cores for project. Provide keying requirements as listed in specifications. This includes temporary construction keying/cores for the project.
62. Supplier shall meet in person with owner/architect and contractor to finalize keying requirements prior to the locks and exit devices being ordered and match existing or start a new Restricted and Patented Master Key System for the project. During keying meeting, all hardware functions should be reviewed with the owner/architect/contractor to finalize lock and exit device functions.
63. Contractor to install all access panels, provided by the fire suppression, mechanical/ plumbing, and electrical/ av contractors. ~~Bid package 09-~~ [Addendum 3](#)

Rolling Service Doors/ Overhead Doors

64. Provide all overhead doors, insulated and non-insulated per the drawings and specifications. Provide any hoisting/lifts required for installation.
65. Provide door and operating equipment with necessary hardware, anchors, inserts, hangers and supports. Follow manufacturer's installation instructions.
66. Provide low voltage wiring up to the line voltage junction box. Line voltage connection will be provided by the Electrical Contractor.
67. Provide operation training and demonstration for the Owner.

Glass and Glazing

- 68. All glass and glazing for the project complete. Includes all exterior and interior glazing for complete project. Including but not limited to the scope listed below.
- 69. Exterior storefront and curtain wall systems complete. Includes all framing, flashings, pans, sills, glazing, fasteners, spandrel insulation, metal panels contained within aluminum framing, accessories, etc. for a complete glazed system. Reference wall sections and details for additional information.
- 70. Flashings (jambs, sills of openings provided by this trade), sealing, etc. of all aluminum frame systems- Coordinate with all exterior façade trades for integrated connections between different products.
- 71. Provide all interior storefront glazing systems. Include all framing, glazing, fasteners etc. for a complete system.
- 72. All exterior caulking between your scope and dissimilar items and any caulking required to make the building weathertight (associated with, or in contact with, this scope). Include any caulking or sealants that come into contact with your scope of work. Interior finish caulking between your scope and dissimilar materials is by others.
- 73. Glazing gaskets should be tight fitting and waive free.
- 74. Glazing within wood, hollow metal doors and frames, including fire rated glass in doors as required for the life safety plan.
- 75. **Provide and install** all hardware installation for aluminum doors. Coordinate requirements with door hardware supplier. - **Addendum 3**
- 76. Includes all aluminum trim surrounding all exterior storefront and curtain wall per the details shown for weathertight condition. Color to match curtain wall. Coordinate installation etc. with air barrier application to ensure a weather tight building. Air barrier to be provided and installed by others.
- 77. Include insulation within aluminum framing systems. Includes mineral wool in misc. voids, **rigid insulation @ spandrel panels**, and when shown against flashing or trim within glazing system provided and installed by this trade. (does not include cavity insulation between masonry and metal stud locations, etc. or any insulation outside of aluminum framing system/perimeter) - **Addendum 3**
- 78. Include all shims, supporting components, and miscellaneous support angles for installation purposes or as required.
- 79. Ensure glass provided and installed by this scope of work is free from factory/shop applied stickers and adhesive that are not required to remain post installation.
- 80. Contractor to provide packing mineral wool insulation/ spray foam insulation at the perimeter of thermal frames.
- 81. Frames to be finished per 08 41 00. Final frame color selection occurs at submittal phase. Custom color is included in the contract amount.
- 82. Includes labor for water test after aluminum systems are installed and flashed correctly to check for water penetration per the specifications.
- 83. It is the responsibility of this bid package to provide and install all fixed louvers as shown or implied in the construction documents. **In the event they are attached to ductwork, it is the responsibility of BP12 Plumbing and HVAC to supply and install louvers in these locations.** **Addendum 3**

Flooring/ Tiling

- 84. Furnish and install all tile, resilient tile flooring, tile carpeting, tile and vinyl base IAW the drawings, specifications room finish plan and schedule. Include all products (tile backer board by others), materials, trim and accessories listed in the specifications for a complete installation.
- 85. Source all items through an approved manufacturer.
- 86. Provide and install hydraulic cement underlayment for locations ~~indicated on the plans~~ **needing sloped or leveled.** **Addendum 3**
- 87. Conduct minor floor preparation to accept new finishes. This includes control joints, minor concrete depressions, and other small impurities in the sub- surface.
- 88. All floor areas shall be cleaned and swept free of debris prior to installation of flooring.
- 89. Float floor at material transitions for a smooth finish.

- 90. All cuts, trims, outlets, and fixtures should be tight and smooth so that cover plates, trims or escutcheons will cover completely.
- 91. Grout joints shall be free of voids and have a smooth finish. Remove all haze and debris once grouting has been completed. Properly dispose of grout water.
- 92. Clean and protect IAW-in accordance with the specifications. - **Addendum 3**
- 93. This scope of work incorporates flooring/wall material patterns/directions as required by the contract documents.
- 94. All products will be warranted IAW-in accordance with the specifications. - **Addendum 3**
- 95. This project is utilizing E5 concrete slab treatment. Additional information can be found at www.specificationproducts.com. All warranties and guarantees shall be maintained.
- 96. Provide and install Terrazzo demolition and patching as required for MEP system modifications. Reference demolition and architectural finish drawings for more details.
- 97. Contractor to provide and install all resinous flooring as it is indicated in the construction documents.

Painting & Wall Covering

- 98. Provide all exterior painting, interior painting, and wall coverings for the entire project per the drawings and specifications.
- 99. Reference general notes on the drawings that refer to this scope of work.
- 100. Provide prime and finish coats per contract documents.
- 101. This scope of work shall include a final touch up coat as needed prior to project completion.
- 102. Provide exterior painting of all unfinished materials including but not limited to:
 - i. Exposed steel (rails, lintels, gates, ladders, bollards, posts, roof screen supports, hollow metal frames and doors, etc.)
 - ii. CMU/Masonry materials scheduled to be painted, etc.
- 103. Provide interior painting of all unfinished materials including but not limited to:
 - i. Exposed steel (deck, columns, beams, tubes, rails, joists, bollards, gats, posts, etc.).
 - i. Coordinate painting of exposed structure with Construction Manager and other trades prior to painting exposed structure.
 - ii. Gypsum surfaces: walls, ceilings, soffits, bulkheads, etc.
 - iii. Hollow metal doors & frames
 - iv. Masonry materials scheduled to be painted.
- 104. Do not paint over required labels.
- 105. ~~Stain or paint all unfinished wood doors.~~ - **Addendum 3**
- 106. Stain or paint all unfinished finish carpentry. Patch all fastener marks/holes prior to painting.
- 107. After prime coat has been applied, this scope of work and drywall trade shall review drywall surfaces to determine acceptance. Any inconsistencies shall be addressed prior to final paint.
- 108. Wallcovering where indicated is the responsibility of this scope of work.
- 109. Review substrate prior to application of wall covering. Any inconsistencies shall be brought to the attention of the site superintendent and drywall trade prior to installation of wall covering.
- 110. ~~Provide sealing of Concrete as indicated by contract documents.~~ - **Addendum 3**

Specialties

- 111. Provide and install the following per the documents. Provide complete with all accessories for a complete installation. Provide in- wall blocking as applicable.
 - i. Visual Display Boards
 - ii. Cast Plaques
 - iii. Dimensional Letters & Signage
 - iv. Panel Signage
 - v. Toilet Partitions & Doors
 - vi. Cubicle Track and Hospital Cubicles
 - i. Provide supports per the documents.
 - vii. Wall Guards
 - viii. FRP Paneling
 - ix. Toilet Accessories
 - x. Shower Seat

- xi. Polycarbonate Plastic Coat Hooks
- xii. Key Cabinet
- xiii. Defibrillator Cabinets
- xiv. Recessed AV Cabinet
- xv. Fire Extinguishers & Cabinets
- xvi. High density athletic storage units – Provide and install components for a complete system.
- xvii. Metal lockers

Equipment

- 112. Provide and install all laundry equipment/ appliances as they are shown in the drawings.
- 113. Include all food service equipment as is shown in the documents.
- 114. All electrical requirements and final connections, relating to food service and laundry equipment are to be coordinated with the electrical bid package.

Furnishings

- 115. Provide the following per the documents. Provide all accessories for a complete installation. Provide field measurements as required.
 - i. Blinds

Elevators

- 116. It is the responsibility of this bid package to provide and install the hydraulic elevator, shown at the new football grandstands.
 - i. Contractor to coordinate with MNC, as well as all corresponding trades to ensure
 - i. All power requirements are met
 - ii. All shaft clearances are correct
 - iii. Pit depths are achieved
 - iv. Sufficient mechanical room/ chase space is provided.

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Selective Demolition

- 117. Contractor to include selective demolition per demo notes 2, 4, 5, 6, 7, 9, 11, 12, 14, 17, 18, 20, and 23 in the “AD” Series Drawings.

Expansion Joints

- 118. Furnish and install all structural expansion joints, not included within roofing systems including but not limited to:
 - i. 07 95 00 A and B, called out on A181. Roof expansion joints by BP07.
 - ii. Note 6/A201
 - iii. Note 7/A201
 - iv. Note 12/A201
 - v. Note 10/A211
 - vi. Note 12/A201
 - vii. Note 7/A201
 - viii. Note 6/A201

Signage

- 119. Furnish and install all interior signage per elevation notes 14,17, and 25-29 on A350OB.
- 120. All signage as shown on A960 [with the exception of the digital signage, which will be provided and installed by BO13 – Electrical and Low Voltage - Addendum 3](#)
- 121. Notes 17, 25, 26, 27, and 28. 29 to be furnished and installed by BP13

Addendum 3 – 03/05/2024

Additional Specification Sections:

Section 02 41 19	Selective Demolition
Section 12 93 02	Netted Backstops

122. Include all new countertops as they are shown in the drawings.

Work Excluded:

1. Site Demolition
2. MEP selective demolition and disposal
3. Asbestos, hazardous material removal and abatement
4. ~~Exterior perimeter caulking of Storefront~~ **ADD2**
5. ~~Structure demolition~~ **ADD2**
6. ~~Pipe and tube railings — to be provided and installed by BP-05 — Steel~~ **ADD2**
7. Acoustical caulking at top and bottom of MSDW assemblies

END OF BID PACKAGE 06 - GENERAL TRADES

BID PACKAGE #08 – METAL PANELS

Scope Specific Inclusions:

All work per Specification Sections

00 & 01 Complete	Bidding & General Requirements
Section 07 21 00	Thermal Insulation
Section 07 42 13	Formed Metal Wall Panels
Section 07 42 43	Metal Composite Material Wall Panels
Section 10 53 20	Pre-Fabricated Canopies

Work Included but not limited to: (Provide all material, labor/installation, and equipment for the following, unless noted otherwise below)

1. The contractor shall include the work required under each contract area as set forth in this Bid Package.
2. All work/responsibilities as listed in the General Scope Items "Applies to All Bidders".
3. Provide all material, labor, equipment, and mobilizations necessary to supply and install the complete Metal Panel scope of work including, but not limited to; Formed Metal Wall Panels, Metal Composite Material Wall Panels, and Pre- Fabricated Canopies.
4. Contractor to include all anchors, girts, angles, flashings, and other miscellaneous hardware as required for a complete assembly.
5. Contractor to include materials per the listed manufacturers, outlined in Specification Sections 07 42 13 and 07 42 43.
6. It is the responsibility of this bid package to coordinate with the General Trades contractor, as well as the Masonry Contractor, to coordinate installations as they relate to in- wall blocking requirements. Contractor is to submit shop drawings in a timely manner, so that in- wall blocking can be properly placed.
7. Coordinate installations with mason, who will be providing the fluid- applied air vapor barrier and rigid insulation on this project. Ensure all anchors are in place prior to AVB application, if assemblies call for it. - Addendum 3
8. Provide metal panel insulation thickness, metal thickness, sheen, finish, liners, and colors per the specifications.
9. Include panel sizing as shown. Provide reveal layout shop drawings for review and approval by architect prior to fabrication and installation.
10. Coordinate size and location of penetrations through panels with respective trades.
11. Provide warranty as required in the specifications. Contractor shall protect assemblies as they deem fit, pending substantial completion, as required to maintain manufacturer's warranty and guarantee.
12. Contractor is responsible for reviewing the construction schedule, and providing adequate manpower, timely material deliveries, and winter conditions, as the schedule so implies.
13. Provide all necessary testing as outlined by the specifications for this scope of work.
14. Any deviations from the bid schedule durations will be made up by an increase in manpower at no additional cost to the project, or MNC.
15. It is the responsibility of this bid package to physically inspect surfaces prior to installation, and provide labor for field measurement, to ensure proper installation. Any unsuitable sub- surface must be brought to the attention of MNC in a timely manner, so that corrective action may be taken to not hinder the schedule. Upon commencement of work, it is assumed that the contractor accepts the subsurface to which they are installing to, and no additional cost will be granted from MNC, or the project for any corrective change- orders.
16. This bid package is responsible for the installation of all metal canopies as they are shown in the drawings. Coordination between this bid package, the General Trades contractor, and the Steel Contractor is imperative, so that support and blocking are provided as necessary.

17. Canopies to meet material thickness, size, and color outlined on both the drawings, and in specification section 10 53 20.

Work Excluded:

18. Blocking shown on the drawings
19. Skylight
20. Metal Signage

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21. Contractor to provide and install all metal panels and ACM panels, including but not limited to:
 - i. ACM panels shown on the Alternate plans on A301
 - ii. Concealed fastener formed metal wall panels shown on A350OB
 - iii. ACM panels as shown on A350OB, and as detailed on A454OB. Framing and sheathing to be provided by others.
 - iv. Perforated metal panels shown on 350OB and 360OB
 - v. Wall supported aluminum canopy system downspouts. This contractor is responsible for tying downspouts associated with their systems, into the stormwater drainage systems.
22. Contractor to provide and install metal canopies and all supporting hardware including but not limited to:
 - i. Those which are indicated on 350OB and 360OB by plan note 12.

END OF BID PACKAGE #08 - METAL PANELS

BID PACKAGE #09 – METAL STUDS, DRYWALL, AND CEILINGS

Scope Specific Inclusions:

All work per Specification Sections

00 & 01 Complete	Bidding & General Requirements
Section 05 40 00	Cold- Formed Metal Framing
Section 06 16 43	Glass-Mat Gypsum Wall Sheathing
Section 07 21 00	Thermal Insulation
Section 07 24 15	Polymer-Based Direct Applied Finish System (DAFS)
Section 09 22 16	Non-Structural Metal Framing
Section 09 29 00	Gypsum Board
Section 09 51 13	Acoustical Panel Ceilings

Work Included but not limited to: (Provide all material, labor/installation, and equipment for the following, unless noted otherwise below)

1. All work/responsibilities as listed in the General Scope Items "Applies to All Bidders".
2. Provide and install all structural metal framing including but not limited to all studs, tracks, headers, boxes, fasteners, plates, clips, gussets etc. for a complete structural metal framing system.
3. Provide stamped engineering for exterior framing conditions per the contract documents.
4. Removal of temporary steel/cable guard rail. Coordinate removal of posts and cable with site superintendent if applicable.
5. Include all interior wall partition construction as noted on documents.
6. All stud track and wall cavities shall be vacuumed and free of dust and debris prior to drywall installation.
7. No layout markings are permitted on sealed concrete floors. Reference finish drawings for sealed concrete locations.
8. All floors shall be swept/vacuumed and cleaned thoroughly after taping and sanding activities. Any means necessary shall be utilized to Remove buildup of joint compound off of the slab immediately after work completion.
9. Provide drywall touchup to drywall surfaces after all casework, trim, and division 10 items are installed. Coordinate touch- up requirements with General Trades contractor, as well as MNC.
10. This scope is responsible for all non-load bearing metal framing.
11. Provide and install all exterior sheathing board and accessories where indicated for a complete system, including all joint treatment requirements etc.
12. Provide and install all exterior sheathing where indicated including but not limited to exterior walls, soffits, breezeways, canopies, back side of parapet walls etc.
13. Include all joint treatment required per designed wall system. Fluid applied air barrier by others.
14. Provide and install all thermal and acoustic insulation within metal stud framing including but not limited to partitions, exterior walls, parapets, soffits, canopies, etc. This scope responsible for all insulation except for horizontal roof insulation, underground / slab insulation, and rigid insulation at exterior walls. Contractor to provide mineral wool insulation as it is called out in the drawings and specifications. – Addendum 3
15. Include stuffing or filling of misc. voids around openings and penetrations with mineral wool.
16. Sound batt insulation at ceilings where required per partition/ ceiling schedule.
17. Contractor to frame all access doors within their assemblies as shown on the floor plans and reflected ceiling plan. Installation of access doors to be by the general trades package.
18. All metal stud walls, shafts, furring, bulkheads, soffits ceilings, column and beam wraps, channels, etc. Include all necessary tracks, bracing, clips, fasteners for a complete installation.

19. Supply and install all suspension systems and required bridging as required for drywall ceiling assemblies.
20. All gypsum board for all bulkheads, ceilings, walls, column wraps, soffits, etc. for a complete package. Include all impact resistant drywall, moisture resistant drywall etc. as required per partitions schedule and specifications.
21. Drywall control joints as required per field conditions/industry standards.
22. Coordination with Mechanical & Electrical trades for all wall penetrations.
23. Label of all fire rated walls above ceilings as required.
24. Expansion joint material where required at all drywall/metal stud locations.
25. All detailing at doors jambs and head conditions including, but not limited to, jack and king stud details, control joint details, and reveals.
26. All U.L./Rated assemblies as required/indicated for all materials supplied or installed by this scope. (Drywall, framing, taping, finishing, etc.)
27. Provide top and bottom acoustical sealants as implied and indicated by the contract documents.
28. Contractor to provide acoustical joint sealants at all wall penetrations as required to meet STC ratings.
29. Include all drywall finishing. Provide a minimum level of finish of 4 at indicated locations.
30. Provide and install all gypsum based tile backer boards / cementitious backer boards at locations required.
31. All acoustical ceilings. Include all suspension systems, trim, grid, panels etc. per the finish plans and specifications. Caulk grid as required for acoustical performance, or as indicated in the specifications.
32. Stud assemblies meet minimum deflection criteria outlined in specification section 05 40 00.
33. Subcontractor to provide shop drawings and delegated design drawings for cold- formed metal framing.
34. Framer to provide a minimum G90 coating at all exterior studs, located in unconditioned spaces. (05 40 00 spec forthcoming)
35. Include Eliminator track as it is shown, or implied in the drawings where partitions terminate flush with the ceilings.
36. Provide and install ~~DensGlass~~ (Or similar) exterior sheathing as specified and as shown in the drawings. – Addendum 3
 - i. Tape/ caulk per manufacturer's recommendations.
37. Interior framing to be minimum 33 mil, 20 gauge framing.
38. Contractor has included delegated design at all exterior load- bearing partitions. This includes shop drawings and stamped engineering drawings as required.
39. Contractor to provide fire rated top track as required. Please coordinate with General Trades contractor for all fire/ smoke rated assemblies.
40. Contractor to provide and install gypsum board per specification section 09 29 00 including but not limited to; Abuse resistant and impact resistant interior panels, paper faced gypsum board, moisture resistant gypsum board, High- impact gypsum board, and tile backer board.
41. Provide and install reveals in drywall partitions as shown in the drawings and indicated in the contract documents.
42. Provide and install control joints as shown in the drawings. Please note that if not shown, control joints will be required as outlined in the specifications.
43. Provide direct applied finish system as indicated in the drawings and the specifications. Provide manufacturer and color as indicated.
44. Include all supporting components for retractable projection screens, to be installed by the owner.

Addendum 2 – 02/28/2024

45. It is the responsibility of this contractor to demo all ACT and drywall ceilings, required for MEP work as shown in the drawings. Contractor to coordinate with applicable trades for sufficient demolition areas.
46. Contractor to include all ~~teetum panels~~ acoustic treatments as they are shown in the drawings. – Addendum 3

Addendum 3 – 03/05/2024

Additional Specification Sections:

Section 07 21 19	Spray Foam Insulation
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47. It is the responsibility of this bid package to provide and install all spray foam insulation as it is shown in the drawings.

Work Excluded:

1. Liquid Air and Vapor Barrier
2. Sprayed Insulation
3. Metal Soffit Panels
4. Fiberglass reinforced panels

END OF BID PACKAGE #09 - METAL STUDS, DRYWALL, AND CEILINGS

BID PACKAGE #10 - BLEACHERS

Scope Specific Inclusions:

All work per Specification Sections

00 & 01 Complete	Bidding & General Requirements
Section 03 30 00	Cast-In-Place Concrete – As it applies to scope – Addendum 3
Section 03 30 01	Site Cast-In-Place Concrete
Section 13 34 16	Permanent Grandstands

Work Included but not limited to: (Provide all material, labor/installation, and equipment for the following, unless noted otherwise below)

1. All work/responsibilities as listed in the “General Scope Items - Applies to ALL Bidders” above.
2. Clean all work of dirt, dust, grease, oil, shop identification marks and other foreign matter for all materials provided by this scope.
3. All fasteners, adhesives, sealants, fillers for materials provided by this scope of work.
4. It is the responsibility of this bid package to provide all engineering and foundations for their structures, except for concrete slabs for pedestrian ramps, which will be included with bid package 02 – Site and Building Concrete.
5. Upon acceptance, contractor to provide shop drawings in a timely manner during the submittal process.
6. Contractor to coordinate assemblies with the masonry package as they relate to their construction. Provide layout input so that the press box lands directly adjacent to the elevator shaft.
7. Provide and install all expansion control where press box abuts the elevator shaft for a watertight assembly.
8. Coordinate raceway, conduit, and hanger requirements with Electrician/ AV contractor, Mechanical contractor, and General Trades contractor for the installation of all power, AV, plumbing, and HVAC services.
9. Provide and install all interior partitions and finishes as they are indicated on the drawings and specifications. Casework and plumbing fixtures shall be provided by the General Trades contractor.

Addendum 2 – 02/28/2024

10. Furnish and install expansion joint noted on 9/A491OB.

Addendum 3 – 03/05/2024

11. Contractor to furnish and install grandstands and a press box at the following locations:
 - i. Home Grandstands at the football field
 - ii. Home Press box at the football field
 - iii. Visitor grandstands at the football field
 - iv. Press box and grandstands at the varsity baseball field.
12. Provide and install all ramps, vomitorium's, face plates, and other structure accessories as they are indicated in the drawings and specifications.

Work Excluded:

13. Concrete Sidewalks/ slabs
14. Crushed stone/ gravel beneath bleachers
15. Casework within press boxes

END OF BID PACKAGE #10 - BLEACHERS

Addendum 2 – 02/28/2024

Addendum 3 – 03/05/2024

BID PACKAGE #11 – FIRE PROTECTION

Scope Specific Inclusions:

All work per Specification Sections

00 & 01 Complete	Bidding & General Requirements
Section 08 31 13	Access Doors And Frames
Section 20 00 10	Common Work Results For Fire Suppression, Plumbing And Hvac
Section 20 00 50	Common Materials And Methods For Fire Suppression, Plumbing And Hvac
Section 20 00 60	Pipe, Valves, Fittings And Hangers For Fire Suppression, Plumbing And Hvac
Division 21	Complete

Work Included but not limited to: (Provide all material, labor/installation, and equipment for the following, unless noted otherwise below)

1. All work/responsibilities as listed in the General Scope Items "Applies to All Bidders".
2. All items in specifications section 21 shall be provided by this scope.
3. Specifications sections 00 and 01, in their entirety, and any other applicable or related specification items that apply to this scope of work.
4. Include all scope of work indicated, implied, or required by the Fire Protection Drawings and specifications.
5. Provide and install all pressure and flow sensors required. Line voltage power connections provided by electrical subcontractor to devices provided by this scope.
6. Fire protection scope items and related scope indicated on architectural, ~~civil~~, HVAC, plumbing, fire protection, structural and other contract documents for a fully operational fire suppression system. Other than as outlined in the exclusions section below. – **Addendum 3**
7. Include all testing required for this scope.
8. ~~Connections to the civil utility infrastructure. The piping will be brought into the building by others.~~
– **Addendum 3**
9. All mains, branch piping, RPZ's, heads, accessories, escutcheons, etc.
10. Furnish and install all sleeves, carriers, supports etc. required for this scope.
11. Install flashing, counter-flashing, and/or sealant at all penetrations of Fire Sprinkler System components through the exterior wall system and/or waterproofed areas unless same is specifically shown to be provided by another contractor. The Roofing Contractor shall seal all roof penetrations.
12. Drafts of all required operation and maintenance manuals, valve tagging charts, etc. as outlined by the plans/specifications, or required by governing codes are to be submitted no later than Project 50% completion. Spare parts, as-built drawings, pipe identification, etc. are to be provided per specifications/drawings.
13. All miscellaneous supports for piping and equipment, risers, etc. required for the proper completion of the this scope of work. Structural framework and supports provided by others is limited to that specifically shown and indicated on the Structural Drawings.
14. Coordinate so that no pipe is run over the top of electrical or communication panels. MEP coordination may not show all locations of service panels, Subcontractor to ensure that this requirement is met.
15. Coordinate the sprinkler head locations with the architectural reflected ceiling plans and shop drawings. Additional heads which may be required to meet code are to be included at no charge.
16. All required pipe labeling shall be installed prior to the installation of ceiling grid.
17. Provide and shop drawings, submittals and operation manuals as required per specifications.
18. Seismic considerations as required by the design documents per local building codes and NFPA Standards. Reference contract documents for site classification for project.

19. Coordinate routing and layout with other Mechanical and Electrical trades to identify and eliminate conflicts.
20. It is the responsibility of this contractor, to create all ceiling penetrations for their assemblies. The ACT installing contractor will have grid in place, and an early delivery of ceiling tile on- site for this bid package to complete their installations.
21. Review RCP drawings, demolition scope and new architectural scope. New and existing sprinkler heads need to be centered in ceiling tile and properly coordinated with other ceiling types.
22. Provide all demolition, as applicable, for your scope of work. This includes the traditional “cut, cap and make safe” scope as well as dropping items and removing them from the building to the dumpster (dumpsters by others). Demolition of all ceilings and partitions will be performed by BP06 – General Trades. Please coordinate with this bid package for all demolition requirements.
23. Each sprinkler system zone, which is taken out of service to preform piping and sprinkler modifications, must be put back into service each day before the contractor leaves the site. No Fire Protection system can be left out of service for any reason over an extended period of time.
24. Provide BIM modeling. Incorporate overhead ceiling coordination drawings that identify routing for Fire Suppression, Plumbing, Electrical and HVAC. Routing of individual systems shall be provided per the approved coordination drawings and any variances that arise the subcontractor that has deviated from the approved coordination drawings will be responsible for any costs associated.
25. Provide all access doors either shown or implied for future access of assemblies. Installation to be performed by BP06-General Trades.

Addendum 2 – 02/28/2024

26. Contractor to coordinate with BP09 for ACT and drywall ceiling demolition. This bid package is to exclude all demolition of ACT and/ or drywall ceilings.

Addendum 3 – 03/05/2024

27. Contractor to connect to civil utilities outside of the building. Contractor to bring their assemblies into the building, and provide all flashing and

Work Excluded:

28. Primary Construction Layout
29. Fire extinguishers and cabinets
30. Test and balance – to be performed by owner

END OF BID PACKAGE #11 – FIRE PROTECTION

BID PACKAGE #12 – MECHANICAL / PLUMBING

Scope Specific Inclusions:

All work per Specification Sections

00 & 01 Complete	Bidding & General Requirements
Section 08 31 13	Access Doors And Frames
Section 20 00 10	Common Work Results For Fire Suppression, Plumbing And Hvac
Section 20 00 50	Common Materials And Methods For Fire Suppression, Plumbing And Hvac
Section 20 00 60	Pipe, Valves, Fittings And Hangers For Fire Suppression, Plumbing And Hvac
Division 22	Complete
Division 23	Complete

Work Included but not limited to: (Provide all material, labor/installation, and equipment for the following, unless noted otherwise below)

1. Include a Payment and Performance Bond in the proposal for this scope of work.
2. All work/responsibilities as listed in the "General Scope Items - Applies to ALL Bidders" above.
3. Provide all scope on the M-series and P-series drawings.
4. Provide necessary servicing of existing chiller and evaporator. See list of alternates for work associated with the (potential) new chiller.
5. Provide all work in compliance with all applicable codes.
6. Include all supports and bracing of all plumbing items as required.
7. ~~Provide all applicable firestopping for your scope of work.~~ – **Addendum 3**
8. Provide all demolition, as applicable, for your scope of work. This includes the traditional "cut, cap and make safe" scope as well as dropping items and removing them from the building to the dumpster (dumpsters by others). This project requires a systematic removal of these items in a manner that ensures consistent and continuous operations, so this work shall be coordinated by this trade.
9. Include the labeling and tagging of all items as required.

Plumbing

10. Pipe sleeves at the foundation walls as required/indicated.
11. Provide all access panels for all scope items as required. Access panels will be installed in drywall and CMU partitions by others.
12. Equipment condensate piping as required.
13. This bid package shall request all submittals from the Construction Manager that affect their scope of work to cross reference power requirements versus what is shown on the Contract Documents.
14. Test and Balance for both plumbing and HVAC systems will be contracted directly by Meyer Najem ~~the owner~~. Please coordinate with Meyer Najem superintendent and the Test and Balance (TAB) contractor selected. – **Addendum 3**
15. Provide maintenance and service of all equipment and systems provided per Scope of Work from the time it is put into service, during construction, and until acceptance by the Owner. Warranty will take effect with acceptance by the Owner in accordance with the Certificate of Substantial Completion. Extended warranty shall be provided for all equipment used during construction.
16. All miscellaneous supports for piping and equipment, risers, etc. required for the proper completion of the Mechanical (Plumbing & HVAC) Scope of Work. Structural framework and supports provided by others is limited to that specifically shown and indicated on the Structural Drawings.

17. Coordinate so that no pipe is run over the top of electrical or communication panels. MEP coordination may not show all locations of service panels, this scope of work to ensure that this requirement is met.
18. Provide BIM modeling. Incorporate overhead ceiling coordination drawings that identify routing for Fire Suppression, Plumbing, Electrical and HVAC. Routing of individual systems shall be provided per the approved coordination drawings and any variances that arise the subcontractor that has deviated from the approved coordination drawings will be responsible for any costs associated.
19. Include final connection to all owner/client provided equipment as applicable.
20. Provide all labor and material for complete installation of all above and below grade sanitary, venting, and plumbing piping as required for a complete working plumbing system. Connect to the civil utilities. Domestic Water service shall be provided to 12" AFF by the Civil Utility Contractor. – **Addendum 3**
21. Include the complete insulation of all plumbing piping as required / indicated.
22. Include the make safe of all plumbing items scheduled to be demolished prior to demolition activities. Tag/identify all plumbing items readied for demolition.
23. Include all trench drain(s) and covers as indicated.
24. Provide all machine, hand, and rock excavation, backfilling, and **spoil removal** as required for the proper completion of the Work. Backfill material installed must be in accordance with the applicable sections of the Contract Documents.
25. Sanitary waste and vent piping as required.
26. Complete installation of the interior all roof drains as required. This includes the connection to the exterior sub surface drainage piping as required. Exterior downspouts and connections are by others. – **Addendum 3**
27. Include all domestic water piping as required.
28. Include all gas piping systems complete. Including but not limited to pipe, fitting, venting, control panels, etc. as required.
29. Include the complete installation of all kitchen HVAC and plumbing including, but not limited to, sanitary waste and vent, water piping and duct systems. ~~Refer to the Kitchen Equipment Drawings.~~ This includes the final connections for all equipment as indicated. – **Addendum 3**
30. Include all shutoffs, isolation valves, as required.
31. Include all sleeves, RPZ's, piping, etc. for the irrigation system. Irrigation meter, distribution and heads are by others.
32. Include grease waste piping and under counter grease interceptor if shown in the drawings. – **Addendum 3**
33. Coordinate all new plumbing fixtures that are indicated and confirm applicability of the existing carriers and if they are scheduled to remain. Provide new carriers where necessary.
34. Provide all slab sawcutting and trench excavation/backfill as required. Replace slabs as necessary, include applicable doweling and slab finish. Slab overcuts are not allowed, proper sawcutting should be utilized to avoid overcuts. Provide all slab infills as necessary. Include E5 admixture (coordinate with forthcoming approved concrete mix designs for this project).

HVAC

35. Include all scope of work indicated, implied, or required by the HVAC Drawings and specifications. HVAC scope items and related scope indicated on architectural, civil, HVAC, plumbing, food service, fire protection, structural and other contract documents. Other than as outlined in the exclusions section below.
36. Selective demo for all mechanical items as indicated. Include the make safe of all HVAC items scheduled to be demolished prior to demolition activities. Tag/identify all HVAC items readied for demolition.
37. Re-working of the existing ductwork, mechanical piping, mechanical equipment, etc. as indicated. Demolition of existing architectural finishes will be by the General Trades contractor. Please coordinate with BP06 – **General Trades** for all demolition requirements. – **Addendum 3**

38. All HVAC Equipment. Reference equipment schedules etc. on M601 and M611 for additional information. Including but not limited to: Rooftop dehumidification units, air cooled condensers, Rooftop units, Fans, gas fired infrared unit heaters, electric duct coils, VAV terminal units, and ductless split systems as indicated. – **Addendum 3**
39. Provide all electric duct mounted heaters where indicated. Electrical connections by others.
40. Temperature Control systems complete as indicated on the documents M701, and M702, and as noted in the specifications. Coordinate with existing facility and equipment. Provide any necessary demolition, removal or remedial work. Coordinate the phasing of these items to keep all building systems online during construction. Make any temporary connections or work-arounds to maintain functionality of all active non-construction building areas. Provide new graphics and interface. This scope of work is responsible for all wiring, devices for this system.
41. ~~Provide cleaning of existing ductwork. This work shall be performed prior to connecting to new ductwork, VAVs, etc. Reference the drawings for additional information and requirements. –~~
Addendum 3
42. Any hoisting or rigging associated with equipment installation. Any necessary cranes shall be set in a location that is capable of supporting the applicable loads. Obtain proper crane permits in a timely manner. Protect roof as necessary. The delivery paths for the AHUs should be studied and understood during preparation of the bid and incorporated into planning.
43. Provide necessary refrigerant lines as indicated.
44. Dampers as indicated/required.
45. This subcontract is responsible for all angles, dampers, or sheet metal etc. for HVAC penetrations required to achieve fire rating. Firestopping will be provided by others.
46. Flexible duct connections where required and/or where ductwork crosses the building expansion joints.
47. Include any curbs or housekeeping pads for this scopes equipment. Confirm adequacy of existing pads schedule for reuse. If these pads must be made larger, include that work in this scope.
48. Coordinate all work with the reflected ceiling and structural drawings. The architectural plans shall take precedence.
49. This bid package shall include in their base bid all costs associated with participating in the MEP Coordination efforts as described in “01 32 50 – BIM Coordination”, including BIM Modeling for all fire suppression, plumbing, mechanical in coordination with framing, superstructure, electrical and food service equipment.
50. Meyer Najem will lead the BIM efforts and coordination meetings.
 - i. Each trade shall have their own drafter; both Plumbing and HVAC
51. Coordinate all shutdowns with the Construction Manager along with the school 48 hours in advance of shut down starting. If school operations or if work by other Bid Packages cannot accommodate the shutdown, said shut down will need to occur on a weekend or after hours. All overtime to be included in this bid package.
52. During construction, this contractor shall perform pressure testing of all piping systems (minimum 1.5 times working pressure or as specified – whichever is greater). All tests shall be witnessed by the Construction Manager and test reports and documentation shall be created by this contractor. Include such reports in on-site binders along with all permits, inspections, and testing procedures immediately after test are performed. Provide as-built drawings of system/piping being tested with each test report outlining the section of piping tested.
53. No layout markings are permitted on sealed concrete floors. Reference finish drawings for sealed concrete locations.
54. Furnish access doors and frames required for this Bid Package and not shown on the drawings. Installation for access panels by this bid package is to be by the BP06 - General Trades package.
55. Cut holes/openings in acoustic ceiling tiles and install for own work (inclusive of any sub-contractor's work). Ceiling tiles to be provided by others.
 - i. This Bid Package will be responsible for any damaged ceiling tile after the above ceiling inspection and after ceiling tiles have been dropped.
56. While the General Trades will be performing firestopping and fire caulking, this bid package will be responsible to confirm that all penetrations are ready for fire caulking. If any penetrations are

added after fire caulking or firestopping is complete in each area, this bid package will be responsible for labor, materials, and equipment associated with firestopping these added penetrations.

57. Seal all interior and exterior wall / ceiling penetrations.
58. Penetrations in exposed areas to have escutcheon rings installed to fully cover the penetration hole.
59. After removing piping, duct, and equipment, patch all holes, penetrations and openings with materials matching adjacent surfaces.
60. If this contractor requires structural member for support of pipe hangers, etc. and cannot hit nearby joists or beams, it shall be this contractor's responsibility to provide and install secondary supports, as approved by the project structural engineer and per the material data requirements for a complete and secure installation.
61. Provide all tests required for this Scope of Work. All tests are to be witnessed by the Construction Manager. Final test and balance to be performed by the owner.
62. Include all demolition indicated on the Mechanical drawings and indicated or implied by other drawings/documents.
63. Include cutting and capping of systems when required.
64. Provide and install the natural gas system complete per the drawings and specifications. Provide and install all indicated plumbing fixtures and equipment as scheduled on drawings.
65. ~~Refer to Food Service Drawings and include all plumbing and HVAC work indicated.~~
66. In wall rough in for temperature controls will be provided by the electrical contractor where indicated. Additional pathways shall be provided by this trade. This trade shall also provide all devices, cabling and copper required for a complete operational Temperature Controls System.
67. Provide all demolition and removal of existing temperature controls devices and cabling/wiring.
68. Ceiling removal shall be by others. Demolition of all ductwork indicated, HVAC equipment, plumbing fixtures and piping, and all grilles/registers/diffusers etc, to be by this scope. Include all scope on MD201, MD301, and similar.

Work Excluded:

1. Caulking of plumbing fixtures.
2. Test and Balance (TAB) of plumbing and HVAC systems.
3. Patching of existing walls, unless required by remedial work caused by this trade. Coordinate opening sizes and locations with Construction Manager.
4. Firestopping/ fire caulking – to be provided by BP-06 – General Trades.– **Addendum 3**
5. Food service drawings. – **Addendum 3**

Addendum 2 – 02/28/2024

69. Contractor to provide all sawcutting, demolition, and re- pouring of slabs required for installation of work. Slabs to be finished and free of any major defects, for flooring re- installation by bid package 06 General Trades.

Addendum 3 – 03/05/2024

70. Include all items as they are shown or implied on sheet P100.
71. Include all work associated with plumbing fixture schedules as they are shown on P601.
72. Include rood cut/ patch, curb, AHU, and supports for new AHU as shown on M221 (Alternate)
73. Refer to temp facilities matrix in 01 50 00a for work required from this bid package.

Work Excluded:

74. Caulking of plumbing fixtures.
75. Test and Balance (TAB) of plumbing and HVAC systems.

- 76. Patching of existing walls, unless required by remedial work caused by this trade. Coordinate opening sizes and locations with Construction Manager.
- 77. Firestopping/ fire caulking – to be provided by BP-06 – General Trades.– **Addendum 3**
- 78. Food service drawings. – **Addendum 3**

END OF BID PACKAGE #12 – MECHANICAL / PLUMBING

BID PACKAGE #13 – ELECTRICAL / TECHNOLOGY

Scope Specific Inclusions:

All work per Specification Sections

00 & 01 Complete	Bidding & General Requirements
Division 26 Complete	Electrical
Division 27 Complete	Communications (see notes below)
Division 28 Complete	Electronic Safety and Security (see notes below)

Included but not limited to: (Provide all material, labor/installation, and equipment for the following, unless noted otherwise below)

1. Include a Payment and Performance Bond in the proposal for this scope of work.
2. All work/responsibilities as listed in the General Scope Items above “Applies to All Bidders”.
3. All scope of work indicated, implied, or required by the electrical drawings and specification sections 26, 27 and 28. Reference notes below. Specifically include all outlined on E001-E005.
4. Electrical scope items and related scope indicated on architectural, civil, HVAC, plumbing, fire protection, structural, and other contract documents. Other than as outlined in the exclusions section below.
5. Provide all demolition, as applicable, for your scope of work. This includes the traditional “cut, cap and make safe” scope as well as dropping items and removing them from the building to the dumpster (dumpsters by others). This project requires a systematic removal of these items in a manner that ensures consistent and continuous operations, so this work shall be coordinated by this trade.
6. Make-safe, cut, cap, and drop all electrical, communications and low voltage items that need to be removed. (tag items for removal) Include any pertinent in wall demo for items in walls that remain. Any removals from walls that remain shall be cleanly cut from stud to stud to allow for a clean drywall patch. Coordinate the phasing of all electrical demo in a manner that keeps all building systems online during construction. Make any temporary connections or work-arounds to maintain functionality of all active non-construction building areas
7. Provide all machine and hand excavation, backfilling, and **spoil removal** as required for the proper completion of the Work. Backfill material installed must be in accordance with the applicable sections of the Contract Documents.
8. Trenching, encasement and backfill of any conduit or electrical systems, as required.
9. Provide maintenance and service of all equipment and systems provided per Scope of Work from the time it is put into service, during construction, and until acceptance by the Owner. Warranty will take effect with acceptance by the Owner in accordance with the Certificate of Substantial Completion. Extended warranty shall be provided for all equipment used during construction.
10. Furnish and install all sleeves and embeds situated within foundation walls, slab on metal deck as required for the Electrical Scope of Work
11. Perform all required testing in the presence of the Architect, Engineer, Construction Manager, and other authorities having jurisdiction, if requested. Testing shall be performed by floor or zone as the Project progresses. Subcontractor shall provide adequate manpower during testing to monitor all life safety, mechanical, and temperature control systems component being tested as they relate to the Electrical System.
12. Provide fire rated backing or blocking and required supports for your Scope of Work. In-wall blocking and plywood backing that are specifically indicated on the architectural drawings are by others.
13. Provide conduit and final connections for Owner furnished equipment if indicated in contract documents (specifically including equipment or vendor drawings)

14. Out-of-sequence work if required by the Construction Manager to permit the coordination of work of other contractors. This specifically includes, but is not limited to, the phased, partial installation of duct and pipe to allow studs and drywall Work to be place in areas of congestion.
15. Provide all touch-up painting of this Work as required for the proper completion and final acceptance of the Work.
16. Install flashing, counter-flashing, and/or sealant at all penetrations of Electrical System components through the exterior wall system and/or waterproofed areas unless same is specifically shown to be provided by another contractor. All roof penetrations shall be sealed by the Roofing Contractor during the initial roofing installation. Coordinate these installations accordingly.
17. All miscellaneous supports for piping and equipment, risers, etc. required for the proper completion of the Electrical Scope of Work. Structural framework and supports provided by others is limited to that specifically shown and indicated on the Structural Drawings.
18. All light fixtures shown and as coordinated between the architectural and electrical drawings, and the ceiling subcontractor's adjoining work, including related accessories per plans and specifications. This Work includes all necessary miscellaneous supports, cables and proper ceiling interconnections for the support and systems interface with the work specifically shown to be provided by others. No additional costs shall be incurred by the Project as a result of coordination of light fixtures between the Architectural and Electrical Drawings.
19. Provide power to a junction box for all electric door hardware and operators required by the plans/specs, i.e. the Door Schedule, whether or not same is depicted by the Electrical Drawings. The connection to the door hardware, provided by others, will be by the Electrical Subcontractor. Remote mounting and conduit and wire for remote controls are also by Electrical contractor. Include transformers as required. – Refer to spec section 01 73 30 - **Addendum 3**
20. Installation of push pads for door operators where shown, furnished by others BP-06 – General Trades- **Addendum 3**.
21. Powering and connection of door operators.
22. Testing required for this scope.
23. Installation of all OFCI and food service equipment that is hardwired as outlined or implied on the documents.
24. Unistrut and other supports required by this Subcontract.
25. All electrical equipment pads and any required grouting of equipment bases, with the exception of the relocated transformer pad, which will be supplied by others BP-02 – Site Concrete. - **Addendum 3**
26. Any sawcutting and reparations required to install any under slab systems.
27. Installation of any hardwired HVAC equipment (loose VFDs, etc.). Provided by others BP12 – Plumbing and HVAC. - **Addendum 3**
28. Line voltage Electrical required for the fire protection systems.
29. OSHA minimum lighting during construction. [Reference 01 50 00 for requirements.](#)
 - i. ~~Provide, install, and maintain UL-Listed, NEC-compliant, and OSHA-compliant temporary lighting for 5 footcandle illumination during construction activities.~~
30. Power distribution throughout the building for use by other trades. ~~Turtle layout and placement~~ shall be coordinated with Site Superintendent prior to executing this work. - **Addendum 3**
31. Power for Construction Manager's trailer, including any applicable equipment, for the duration of the project. A minimum 200A service shall be provided.
32. Temporary power for the construction site, including any applicable equipment. Adequate service size shall be provided to power temporary lighting, construction equipment (no permanent hoist or tower crane will be utilized) and temporary distribution for use by all trades.
33. Removal of all temporary electric items shall be coordinated with the Site Superintendent.
34. Conduit and equipment labeling as defined in the specifications.
35. All special systems as outlined in the specs. Coordinate this work with applicable trades and stakeholders.
36. Phasing of scope of work and any necessary as required by the customer and Construction Manager.

37. A complete submittal / sample for all systems requiring labeling (both numbers and / or text) shall be submitted, reviewed, and accepted by the owner prior to final label application. This includes valve tags, receptacle circuit labels, panel labeling, and any system using room numbers.
38. Lock-out / tag-out safety precautions must be followed on all new panelboard work. During shutdowns lock-out / tag-out is required.
39. All casework mounted lighting, outlets, etc. and any other lighting/devices mounted to architectural items. All raceways, poke-thrus, whips, etc. are included.
40. Include any architectural trim associated with light fixtures, specifically at coves.
41. Include marking tape above all utilities as specified.
42. **Provide BIM modeling.** Incorporate overhead ceiling coordination drawings that identify routing for Fire Suppression, Plumbing, Electrical and HVAC. Routing of individual systems shall be provided per the approved coordination drawings and any variances that arise the subcontractor that has deviated from the approved coordination drawings will be responsible for any costs associated.
43. Contractor shall coordinate with Plumbing and HVAC contractors for electrical connections and infrastructure required within Specification Divisions 21, 22, and 23.
44. All concrete housekeeping pads required for this Scope of Work to be provided by this Bid Package.
45. Provide all access panels for all scope items as required. Access panels will be installed in drywall and CMU partitions by others.
46. A working fire alarm system must always remain operational in occupied areas of the building and/or as directed by the Construction Manager.
47. Provide power and connections to all equipment / furnishings indicated, including plumbing, mechanical and architectural contract documents.
48. Coordinate fire alarm panel labeling with Construction Manager as well as local Fire Department.
49. This contractor shall coordinate with the Owner and the local utility for all electrical and fiber optic tie-ins. Fiber optic service into the building is by others.
50. Refer to and include all General Notes as listed on the Electrical, Telecommunications and Fire Alarm Drawing.
51. Provide (PA) public address scope, complete. Coordinate with existing infrastructure and manufacturer and vendor requirements.
52. Provide all J-Hooks and pathways for all Special Systems and Low Voltage infrastructure.
53. This Bid Package shall be responsible for ensuring that the Fire Alarm and PA System are always actively tied in for occupied spaces. This Bid Package shall also be responsible for ensuring and testing this function prior to handover of each unique phase of the project, prior to hand over. By the time the project is done, the Fire Alarm and PA System shall be in working condition throughout the school in unison. Coordinate with Meyer Najem and the Owner on this sequencing.
54. Include cutting and patching of slabs, walls and ceilings as required for installation of scope as indicated on the contract documents.
55. Provide and install all required grounding for systems.
56. Seal all interior/exterior ceiling and wall penetrations.
57. Provide sleeves for all piping and conduit penetrations thru partitions and/or full height walls, foundations, floor, and roof, whether shown or not. Holes or access through previously constructed foundations, walls, floor, or roof to be core drilled, drilled with a hole saw or cut and patched by this contractor. Maintain indicated fire rating of substrate at pipe penetrations. Provide sleeves and conduit(s) stubs outside of building foundations as required for incoming secondary power, ~~generator power~~, fire alarm PIV, grounding loop wire, telecommunication incoming lines, telephone / fiber optics and site lighting/power. Coordinate sleeves install with the Building Concrete Contractor no less than 72 hours prior to concrete being placed. - **Addendum 3**
58. Where conduits pass below concrete or asphalt roads, parking lots, or drives this contractor shall furnish and install sleeves as necessary to allow for installation and removal.
59. Provide and set all sleeves with water seals required for penetrations through concrete foundations. Coordinate with Building Concrete Contractor no less than 72 hours prior to concrete being placed.

60. PVC Conduit shall be bent using a hot box. Using open-flame methods to heat and then bend conduits are not acceptable.
61. Provide / cut holes in roof sheathing for materials passing through roof and make ready for roof insulation, prior to roofing being installed. This contractor shall be responsible for coordination with the roofing contractor to ensure a watertight system.
62. Provide all excavation and backfill with approved and specified granular materials, both for exterior and interior of building, for own work (power, lighting, data, and systems conduits). All **excess spoils to be hauled off-site** by this scope.
63. Provide site dewatering for work within this bid package as to not delay the construction schedule. Refer to Geotechnical Report for water table elevations. Include well points as required to complete your scope of work.
64. Provide all concrete housekeeping/~~transformer pads~~ and concrete pole bases for Electrical scope of work, as outlined in this Bid Package, as shown and or required for a complete system. - **Addendum 3**
65. Provide and install hangers and supports per the documents as required and per code for this Electrical scope of work, including Unistrut for all equipment requiring supports for a complete installation.
66. If this contractor requires structural member for support of conduit / pipe hangers, etc. and cannot hit nearby joists or beams, it shall be this contractor's responsibility to provide and install secondary supports/ bridging, as approved by the project structural engineer and per the material data requirements for a complete and secure installation.
67. Coordinate with BP05 – Structural Steel for angle iron frames where required for wall, floor, and roof openings.
68. Provide putty pads where required by code, in rated assemblies or as required for sound/acoustics.
69. Contractor shall reference and include directions and instructions as outlined in specification section 01 50 00 – Temporary Facilities for temporary power and temporary lighting requirements during construction.
70. This Bid Package shall expedite the submittals, procurement, installation and start-up of the main electrical gear, main electrical service, ~~generators, and transfer switches~~ to allow for mechanical equipment start-up. This includes all housekeeping pads, underground raceways, above ground raceways, conductors, specified in project documents, inclusive of all excavation/trenching, conduit wiring and reinforced concrete pole bases. - **Addendum 3**
71. Coordinate lighting layout terminations, and testing. This shall not relieve this contractor from furnishing temporary facilities in accordance with 01 50 00 – Temporary Facilities Matrix. Coordinate underground conduit elevations with Bid Package ~~07~~ **01** – Sitework. Conduit is expected to be located out of the way of underground utility piping and accessories. - **Addendum 3**
72. Provide and install a complete power system including all devices, mechanical rough-ins, panels, switchgear, distribution, disconnects, etc. per drawings, specifications and requirements.
73. All conduits (interior and exterior) shall be installed with pull strings and located with dimensions off physical landmarks that will be visible once all work is complete. Note dimensions on as-built documents.
74. Shut down requests are to be submitted and coordinated with the owner as well as Meyer Najem 48 hours prior to the shutdown beginning. In the event the shutdown is not approved, the scheduled work must take place afterhours or on a weekend. Overtime for this work shall be included in this bid package. Shutdowns that will impact other trades shall be coordinated no less than two (2) weeks in advance with the Construction Manager and the Owner.
75. Panel schedules shall be installed in panels prior to punch. Existing panels that have circuits added, removed, or changed in anyway will require an updated panel schedule to be installed.
76. Contractor is responsible for creating a layout drawing with dimensions off structural grid lines locating roof openings. The roofing contractor will sign off on the location to confirm no items interfere with the taper system. Steel contractor to install all framing per mechanical contractor's layout drawings.
77. No layout markings are permitted in areas with an exposed concrete slab as the final finish. Reference finish drawings for location of finished concrete floors.

SECTION 01 12 00
BID PACKAGES (SCOPES OF WORK)

78. Refer to sections 11 23 00 and 11 31 00, review equipment schedules and include electrical requirements listed for equipment items. This contractor shall cross-reference construction documents between the food service and Electrical drawings prior to proceeding with work. If there are inconsistencies, this contractor shall submit an RFI to the Construction Manager for clarification. If this contractor fails to do this, no additional monies will be paid to the Contractor for re-work.
79. This bid package shall install, wire, and test all flows, tampers, etc. provided by other bid packages (specifically fire protection)
80. This bid package shall include floor protection at locations where using equipment which could leak fluids and stain floor below. If staining occurs, electrical contractor to take all steps necessary to remove stain at no cost to owner.
81. This bid package is to verify power requirements of equipment prior to beginning the work.
82. Provide installation, complete, for all external VFDs. [VFD's provided by others. - Addendum 3](#)
83. This bid package shall furnish and install any disconnects required for a code-compliant installation of all equipment. This bid package shall cross reference the Contract Documents and submittals for equipment furnished by other contractors to determine the extents where disconnects may not be depicted but required for a complete installation.
84. This bid package shall request all submittals from the Construction Manager that affect their scope of work to cross reference power requirements versus what is shown on the Contract Documents.
85. Provide electrical/system hook-ups for fire/smoke rated dampers in rated partitions as required. Refer to mechanical and life safety drawings for location of dampers and rated walls for coordination, respectively.
86. All patch cords and cabling to be provided and/or installed per the specifications.
87. Provide all fire treated wood wall sheathing required as back-up boards, including but not limited to electrical panels, switchgear, phone, and data boards, etc. at locations indicated on the drawings and/or required by code or standard electrical means and methods and specification section 06 16 00.
88. Contractor to be responsible for coordination and integration of all systems, equipment, lighting, etc. that becomes part of the Building Management System.
89. Sitework has included ~~lime~~ [cement](#) stabilization of the site, per the engineer's recommendation. This contractor shall include costs associated with the means and methods required for excavation and/or trenching and backfill of the lime stabilized soils to install footings, conduits, piping, etc. NO additional monies will be provided for failure to do so. - [Addendum 3](#)
90. Note: all underground work requiring saw cutting shall include layout, sawcut, remove, perform work, and pour back to an agreed upon elevation as coordinated with the finished flooring material.
91. Contractor must be present on site for all instances of rough in within masonry walls, including six (6) Day Work Weeks as required. [Refer to 00 89 13 – Milestone Schedule - Addendum 3](#)
92. This bid package shall include mounting hardware and supports for all mounted projectors.
93. Where electrical items are to be installed above decorative/open ceiling systems and are exposed to view, all materials are to be installed in a finished manner to accept paint. All cabling installed above these ceilings must be installed in conduit.
94. Cut holes/openings in acoustic ceiling tiles and install for own work. Ceiling tiles to be provided by others
 - i. This Bid Package will be responsible for any damaged ceiling tile after the above ceiling inspection and after ceiling tiles have been dropped.
95. Fixture lamps that are dimmed or failed shall be replaced at substantial completion.
96. Fixtures and equipment shall be final cleaned, touched up and adjusted prior to substantial completion and just prior to punch list as coordinated with the Construction Manager.
97. This Bid Package shall make available their designated field representative during any inspections by the Authority Having Jurisdiction as deemed necessary by the Construction Manager.
98. This Bid Package and applicable subcontractors shall participate in occupancy testing as deemed required by the construction manager, including comprehensive pre-testing of all systems and electrical components. Additional time for multiple visits must be included to validate all special

systems to the satisfaction of the Construction Manager including electrical distribution testing and validation of the ~~generator sets and paralleling gear and/or transfer switches as required.~~ -

Addendum 3

99. This Bid Package shall include the cost for off-hours work for shutdowns, tie-ins, or any other work that could interfere with the work of other Prime Contractors or the Owner's Operations.
100. This Bid Package shall furnish and install the rough-ins indicated for temperature controls. This Bid Package shall provide 120V power to all temperature control panels, 120V temperature control devices, and temperature control transformers. Reference also M-series drawings for locations. If no location is shown, subcontractor to coordinate with the HVAC contractor for location.
101. All devices shall have circuitry clearly identified per the Contract Documents. This includes panels, disconnects, wiring devices, etc. All electrical distribution equipment shall be tagged with phenolic resin tags.
102. All permanent panel schedules shall be installed by the time of Final Inspection.
103. By submitting a bid, this contractor acknowledges that they will participate in the below punch list procedure:
- i. Approximately four weeks from substantial completion the Construction Manager will perform a punch list walkthrough. These items are meant to minimize the number of items that may or may not be found on the final punch list walkthrough. All items identified in the Construction Manager walkthrough must be corrected no more than two (2) weeks following the issuance of the punch list.
 - ii. As scheduled, a final punch list walkthrough will be scheduled with the Owner and Architect. All items identified in the final punch list walkthrough must be corrected no more than two (2) weeks following the issuance of the punch list.
 - iii. Each Contractor's Field Representative must certify, in writing, to the Construction Manager when items are corrected. Failure to do so may result in delayed payment.
- ~~104. Provide generator pad/foundations. - Addendum 3~~
- ~~105. This contractor shall be responsible for the fuel required to test and demonstrate the provided generator both for the Owner and as required for the local inspections. After the testing is complete the contractor shall provide the initial complete FILL of the fuel tank, prior to turning over to the Owner. - Addendum 3~~
106. Contractor to coordinate with utility company and MNC schedule for the relocation of utility transformer (~~note 13~~ **note 5 on sheet E100**). It is the responsibility of this bid package to provide conduit and a pad as indicated for the new transformer. - **Addendum 3**

Addendum 2 – 02/28/2024

107. Contractor to provide and install all power, data, and signage for monument sign as shown on 12/A350OB.

Addendum 3 – 03/05/2024

108. Include line voltage and connections for BP11 – Fire Protection at all pressure and flow sensors.
109. Include fiber optic service line into building with all necessary connections. Ref notes 4,5,6,7,10,11,12 on T404 and all site details shown on T404.
110. Include visitor station relocation noted on 2/ T201 as a part of Alternate 1.
111. Include all general notes on T001
112. All work shown on TD100, TD201, and TD202
113. Include stadium speakers per T403
114. Include intercom system per 27 51 23
115. Include all AV fixtures as they are shown on T201, T202, and T203

Work Excluded:

- 116. Wood blocking and plywood that is specifically shown on the architectural drawings. Any means and methods, items, or supports/blocking/backing that is not shown on the bid documents shall be provided by this Subcontractor if required.
- 117. Utility fees and consumption.
- 118. ~~The following items shall be provided by the Owner:~~ - **Addendum 3**
- 119. ~~Televisions / Monitors (provide rough in per E5xx series drawings)~~
 - i. ~~Projectors (provide rough in per E5xx series drawings)~~
 - ii. ~~Classroom AV equipment and HDMI cabling (provide rough in per E5xx series drawings)~~- **Addendum 3**
- 120. Work by the Owners vendors as defined in the specifications.
- 121. Interconnection low-voltage wiring of door hardware.

END OF BID PACKAGE #13 – ELECTRICAL / TECHNOLOGY

SECTION 01 23 00 - ALTERNATES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY

- A. Section includes administrative and procedural requirements for alternates.

1.03 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
 - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.04 PROCEDURES

- A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated revisions to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.
- D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.01 SCHEDULE OF ALTERNATES

HIGH SCHOOL OFFICE ADDITION

ALTERNATE 1: Building Addition

Base Bid: No work.

Alternate: Provide all civil, landscape, structural, architectural, mechanical, electrical, plumbing, and technology work associated with east administrative office addition.

ALTERNATE #2: Roofing Membrane

Base Bid: Fully adhered TPO membrane roof – reference Drawing 1/A121 and Specification 07 54 23.

Alternate: Fully adhered PVC membrane roof – reference Drawing 1/A121 and Specification 07 54 19.

ALTERNATE #3: Cement Stabilization Building Pad

Base Bid: No work included in base bid.

Alternate: State the costs associated with providing Cement Stabilization of Earthwork for the High School Office Addition Building Pad as indicated on the drawings and specifications and as recommended by the Alt & Witzig Geo-Tech Report. Note the stated Alternate amount will be treated as a Not to Exceed (NTE) Allowance to the awarded contractor's contract. Appropriate paperwork, substantiating costs, shall be provided to Meyer Najem throughout the installation of this scope of work. Failure to do so would void reimbursement for portion of work that is not properly documented.

AGRICULTURE & OUTBUILDINGS

(Agriculture Addition Roof 2/A121, Locker Room Building Roof 1/A123OB, Elevator Shaft Roof 2/A123OB, Ticket Booth Roof 3/A123OB)

ALTERNATE #4: Roof Membrane

Base Bid: Fully adhered TPO membrane roof – reference Drawing 1/A121 and Specification 07 54 23.

Alternate: Fully adhered PVC membrane roof – reference Drawing 1/A121 and Specification 07 54 19.

ALTERNATE #5: Cement Stabilization Building Pad

Base Bid: No work included in base bid.

Alternate: State the costs associated with providing Cement Stabilization of Earthwork for the Agriculture Addition & Outbuildings Building Pads (*Agriculture Addition, Locker Room Building, Elevator Shaft Structure, Ticket Booth Structures*) as indicated on the drawings and specifications and as recommended by the Alt & Witzig Geo-Tech Report. Note the stated Alternate amount will be treated as a Not to Exceed (NTE) Allowance to the awarded contractor's contract. Appropriate paperwork, substantiating costs, shall be provided to Meyer Najem throughout the installation of this scope of work. Failure to do so would void reimbursement for portion of work that is not properly documented.

ALTERNATE #6: Cement Stabilization Site Pavement Areas

Base Bid: No work included in base bid.

Alternate: State the costs associated with providing Cement Stabilization of Earthwork for the Agriculture Addition & Outbuildings Site Pavement subgrade – refer to Sheets L101, L102, L103, L104 and L105 as indicated on the drawings and specifications and as recommended by the Alt & Witzig Geo-Tech Report. Note the stated Alternate amount will be treated as a Not to Exceed (NTE) Allowance to the awarded contractor's contract. Appropriate paperwork, substantiating costs, shall be provided to Meyer Najem throughout the installation of this scope of work. Failure to do so would void reimbursement for portion of work that is not properly documented.

SITE IMPROVEMENTS

ALTERNATE #7: Soccer Field Viewing Mound & Sidewalk

Base Bid: No work included in base bid.

Alternate: Additional cost to provide soccer viewing berm and concrete pad and walk as indicated in L and C series sheets.

ALTERNATE #8: Soccer Viewing Mound & Sidewalk

Base Bid: No work included in base bid.

Alternate: State the costs associated with providing Cement Stabilization of Soccer Viewing Mound & Sidewalk subgrade – (refer to L and C series sheets) as recommended by the Alt & Witzig Geo-Tech Report. Note the stated Alternate amount will be treated as a Not to Exceed (NTE) Allowance to the awarded contractor's contract. Appropriate paperwork, substantiating costs, shall be provided to Meyer Najem throughout the installation of this scope of work. Failure to do so would void reimbursement for portion of work that is not properly documented.

NEW HIGH SCHOOL CHILLER, PIPING, PUMPS, CONTROLS, ETC.

ALTERNATE #9: High School Chiller and Enclosure

Base Bid: No work included in base bid.

Alternate: State the costs associated with providing new chiller, piping, pumps, controls, etc., and mechanical yard fencing as indicated in drawings.

ADDENDUM 3 – ADDED ALTERNATE

ALTERNATE #10 – (2) Two Year Warranty

Base Bid: Warranty as listed in the specifications

Alternate: State the cost to be Added to the Base Bid to provide a Two-Year Warranty for all scope within the applicable Bid Packages – inclusive of all Alternates above. This alternate is in lieu of the standard (1) One Year Warranty as described within the Contract Documents.

Note: Any special or extended warranties listed within specification section greater than one year are still required for the base bid for length indicated in specification section.

END OF SECTION