ADDENDUM

CSO
ARCHITECTURE · INTERIOR DESIGN

ADDENDUM NO: 3

PROJECT: BCSC Columbus East High School – C4 Addition

PROJECT NO: 2025022 DATE: 11/10/2025 BY: Josh Cannaday

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: ADD 3-1- ADD 3-8

Attached Documents:

- Pre-Bid sign-in sheet
- Spec 23 34 23 – HVAC POWER VENTILATORS

Attached Drawing Sheets:

C000, C100, C500, L401, L410, S001, S002, S201, S202, S203, S402, S701, S702, S703, A201, A401, A402, A403, A405, A406, A410, A501, A800, A801, A900, A901, A902, P101, P201, P203, P401, P501, P601, M201, M211, M212, M220, M301, M701, E211, E212, E220, E301, E401, E601, E611, E612, T403, T500

PART 0 - GENERAL INFORMATION

0.1 Pre-bid Sign-in Sheet

A. Add per the attached document

PART 1 - BIDDING REQUIREMENTS

1.1 N/A

PART 2 - SPECIFICATIONS

2.1 22 34 00 WATER HEATERS

A. Add Bock Water Heaters as an approved equal.

2.2 23 34 23 HVAC POWER VENTILATORS

A. Re-issue in its entirety.

B. Added Dust Collectors and Fume Extractors to specifications.

2.3 26 36 23 – AUTOMATIC TRANSFER SWITCH

A. 2.01, A,1. - Modify ATS part number to Onan-Cummins Power OTEC series.

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PART 3 - DRAWINGS

3.1 SHEET C000 – TITLE SHEET

A. Modified drawing index to identify the revised sheets & dates under this Addendum

3.2 SHEET C100 – DEMOLITION PLAN

A. Modified cautionary notes for the existing underground electric duct bank

3.3 SHEET C500 – UTILITY PLAN

A. Added notes to reflect pothole data for existing electric duct bank

B. Added assumed elevations and depths of electric duct bank per pothole data

C. Added a cautionary note for utility crossing along the existing detention's eastern edge

D. Added easement identification notes

3.4 SHEET L401 – SITE PLANTING PLAN

A. Adjustments have been made to the required plants based on comments from the City of Columbus

3.5 SHEET L410 – PLANTING SCHEDULE AND DETAILS

A. Planting adjustments have been reflected in plant schedule

3.6 SHEET S001 – GENERAL STRUCTURAL NOTES

A. Design Criteria Notes Modified as shown on sheet S001

B. Aggregate Pier System Notes modified as shown on sheet S001

C. Existing Construction Notes added on sheet S001

3.7 SHEET S002 – GENERAL STRUCTURAL NOTES & SCHEDULES

A. WF72 Added to Wall Footing Schedule

3.8 SHEET S201 – FOUNDATION PLAN

A. Plan modifications near courtyard as shown on sheet S201

B. Masonry reinforcement modifications as noted on sheet S201

C. Wall footing size modifications as shown on sheet S201

D. Foundation Plan Note #20 added to sheet S201

3.9 SHEET S202 – LOW ROOF/SECOND FLOOR FRMAING PLAN

A. Canopy framing added as shown on sheet S202

B. Floor infill in existing building added per sheet S202

3.10 SHEET S203 – ROOF FRAMING PLAN

A. Steel modifications as shown on sheet S203

3.11 SHEET S402 – TYPICAL DETAILS

A. Aggregate Pier details added on sheet S402

3.12 SHEET S701 – FOUNDATION SECTIONS & DETAILS

A. Sections 7&8/S701 added to detail list.

3.13 SHEET S702 – FRAMING SECTIONS & DETAILS

A. Sections 11/14 modified as shown on sheet S702

3.14 SHEET S703 – FRAMING SECTIONS & DETAILS

A. Sections 7-10/S703 added to detail list.

3.15 SHEET A201 – FIRST FLOOR PLAN

A. Add delineation line and tag for "COSMETOLOGY BREAK AREA" to floor plan

B. Add section cut 12/A900

3.16 SHEET A401 – WALL SECTIONS

A. Add detail to canopy on section 4/A401

3.17 SHEET A402 – WALL SECTIONS

A. Revise wall section 3/A403 to add details to garage door head and jamb conditions

3.18 SHEET A403 – WALL SECTIONS

A. Revise wall section 3/A403 to reflect stud size changed from 10" to 8"

B. Revise wall section 2/A403 to remove expansion joint location from section

C. Revise wall section 4/A403 to reflect stud size change from 10" to 8" at top of wall section.

3.19 SHEET A405 – WALL SECTION DETAILS

A. Add annotations to Enlarged Section Detail 8

3.20 SHEET A406 – WALL SECTION DETAILS

A. Add Enlarged Section Detail 8 to sheet

3.21 SHEET A410 – PLAN DETAILS

A. Add annotations to Enlarged Plan Details 4, 8, 9, & 10 on sheet

B. Revised plan details 1, 7, 8 on sheet for stud sizing change and for expansion joint location change

3.22 SHEET A501 – DOOR SCHEDULE AND ELEVATIONS

A. Revise door schedule to reflect updated HJS details

B. Revise remarks for doors as indicated

C. Updated HJS details for the project with annotations and additional HJS

D. Revised frame F8 for width of frame

E. Revise frame F6 for transom head height

F. Add Jamb Details J10 and J11 to sheet

G. Remove fire rating from door I-150.1

H. Revise Door Note Number 2

3.23 SHEET A800 – FINISH LEGEND, DETAILS, & ELEVATIONS

A. Revise wall tile to floor finish transition detail

B. Add wall tile (WT8) to Finish Legend

C. Add F7 to Finish Plan Notes

D. Revise Finish Plan Note F3

3.24 SHEET A801 – FIRST FLOOR FINISH PLAN

A. Revise wall finish in Vestibule I-058

B. Revise wall finish in Waiting I-059

C. Revise accent paint locations in Cosmetology Instruction I-061 and I-064

D. Revise finish plan F3 location in Cosmetology Instruction I-061 and I-064

E. Revise wall finishes in Pedicures I-067

F. Add delineation line and tag for "COSMETOLOGY BREAK AREA" to floor plan

3.25 SHEET A900 – EQUIPMENT SCHEDULE AND DETAILS

A. Revise equipment schedule to read that Welding Booths & Curtain are OWNER provided

B. Revise equipment schedule to read that Suspended Salon Mirror are CONTRACTOR furnished and CONTRACTOR installed

C. Add details and annotations to the following views: 1/A900, 2/A900, 4/A900, 5/A900, 6/A900, 7/A900, 8/A900

D. Add views 11 and 12 to sheet

3.26 SHEET A901 – FIRST FLOOR EQUIPMENT PLAN

A. Add delineation line and tag for "COSMETOLOGY BREAK AREA" to floor plan

3.27 SHEET A902 – SECOND FLOOR EQUIPMENT PLAN

A. Add FE1 tag to fire extinguisher cabinet in Agriculture Lab I-150

3.28 SHEET P101 – UNDERSLAB PLAN – PLUMBING

A. Refer to attached drawing, reissued in its entirety.

3.29 SHEET P201 – FIRST FLOOR PLAN – PLUMBING

A. Refer to attached drawing, reissued in its entirety.

3.30 SHEET P203 – SECOND FLOOR PLAN – PLUMBING

A. Refer to attached drawing, reissued in its entirety.

3.31 SHEET P401 – ISOMETRICS – PLUMBING

A. Refer to attached drawing, reissued in its entirety.

3.32 SHEET P501 – DETAILS – PLUMBING

A. Refer to attached drawing, reissued in its entirety.

3.33 SHEET P601 – SCHEDULES – PLUMBING

A. Refer to attached drawing, reissued in its entirety.

3.34 SHEET M201 – FIRST FLOOR PLAN – AIR DISTRIBUTION

A. Refer to attached drawing, reissued in its entirety.

3.35 SHEET M211 – FIRST FLOOR PLAN – HYDRONICS

A. Refer to attached drawing, reissued in its entirety.

3.36 SHEET M212 – SECOND FLOOR PLAN – HYDRONICS

A. Refer to attached drawing, reissued in its entirety.

3.37 SHEET M220 – ROOF PLAN – MECHANICAL

A. Refer to attached drawing, reissued in its entirety.

3.38 SHEET M301 – ENLARGED PLANS – MECHANICAL

A. Refer to attached drawing, reissued in its entirety.

3.39 SHEET M701 – GENERAL – CONTROLS

A. Refer to attached drawing, reissued in its entirety.

3.40 SHEET E211 – FIRST FLOOR PLAN – POWER

A. Refer to attached drawing, reissued in its entirety.

3.41 SHEET E212 – SECOND FLOOR PLAN – POWER

A. Refer to attached drawing, reissued in its entirety.

3.42 SHEET E220 – ROOF PLAN – ELECTRICAL

A. Refer to attached drawing, reissued in its entirety.

3.43 SHEET E301 – ENLARGED PLANS – ELECTRICAL

A. Refer to attached drawing, reissued in its entirety.

3.44 SHEET E401 – DETAILS – ELECTRICAL

A. Refer to attached drawing, reissued in its entirety.

3.45 SHEET E601 – SCHEDULES – ELECTRICAL

A. Refer to attached drawing, reissued in its entirety.

3.46 SHEET E611 – SCHEDULES – PANELBOARDS

A. Refer to attached drawing, reissued in its entirety.

3.47 E612 – SCHEDULES – PANELBOARDS – EMERGENCY

A. Refer to attached drawing, reissued in its entirety.

3.48 SHEET T403 – SECURITY DETAILS

A. Eliminated Detail #2 – EAC DOOR TYPE D3A - CARD READER WITH ADA OPERATION

B. Eliminated Detail #15 – EAC DOOR TYPE S3A - CARD READER WITH ADA OPERATION

C. Added new Detail #2 – EAC DOOR TYPE D3 - CARD READER

D. Added new Detail #5 – EAC DOOR TYPE S3 - CARD READER

E. Changed detail number from #22 to #4

3.49 SHEET T500 – TECHNOLOGY/SECURITY SCHEDULES

A. Updated Access Control Schedule as follows:

1. Changed Door I-058.1 from EAC DOOR TYPE S3A to EAC DOOR TYPE S3.

2. Changed Door I-099A.1 from EAC DOOR TYPE D3A to EAC DOOR TYPE D3.

PART 4 - OTHER ITEMS

4.1 NOT USED

PART 5 - QUESTIONS AND ANSWERS

5.1 Sheet A802: Should note F4 (for solid surface window sills) be in room I-152 – and also for west windows F14 – rm I-055 and F15 and F14 windows for rm I-051- also sheet A801- for the east side of corridor I-099B windows (2) F17 and (1) F18?

A. A. See General Finish Note 'T' for general window stool information. Finish Plan Note 'F4' is only applicable to Cosmetology.

5.2 Should any fire extinguishers be on the second floor?

A. Fire extinguisher cabinet is located in Agriculture Lab I-152

5.3 Do not see wall Tile W5 used anywhere?

A. A. See elevation '2/900'. Typical for all cosmetology stations.

5.4 Do not see any welding tables (WT1) designated for locations and quantities

A. Welding tables are tagged on A901 as part of this addendum

5.5 Do not see any specifications for Welding booths and curtains (WB1) – ref sht A900

A. Welding booths and curtains are to be Owner furnished

5.6 Do not see any designations for wood sound control doors on schedule or plans

A. Door schedule has been updated along with Door Note #2 to reflect this. Door I-150.1 is to receive a sound seal

5.7 Two pairs of doors on the west side of room I-051 without and numbers and not on the schedule- ref A201, A501

A. Doors have been tagged on A201

END ADDENDUM #3

MEETING SIGN-IN SHEET

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DATE: 11/06/2025
MEETING LOCATION: Columbus East High School
PROJECT: Columbus East High School - C4 Addition
PROJECT NUMBER: 2025022

Participants Sign-In: (Please Print)

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PROJECT NUMBER: 2025022

Participants Sign-In: (Please Print)

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SECTION 23 34 23 – HVAC POWER VENTILATORS

PART 1 – GENERAL

1.1 SUMMARY

A. This Section includes the following:

1. Centrifugal roof ventilators.
2. In-line centrifugal fans.
3. Utility Set
4. Dust Collectors
5. Fume Extractors
6. Motors.

1.2 SUBMITTALS

A. Product Data: Include rated capacities, furnished specialties, and accessories for each type of product indicated and include the following:

B. Shop Drawings: Detail equipment assemblies and indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.

C. Field quality-control test reports.

D. Operation and maintenance data.

1.3 QUALITY ASSURANCE

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

B. NEMA Compliance: Motors and electrical accessories shall comply with NEMA standards.

C. UL Standard: Power ventilators shall comply with UL 705.

PART 2 - PRODUCTS

2.1 CENTRIFUGAL ROOF VENTILATORS

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

1. Greenheck.

2. Loren Cook Company.
3. PennBarry.
4. Carnes Company.
5. Twin City Fans.

B. Description: Direct-driven centrifugal fans consisting of housing, wheel, fan shaft, bearings, motor and disconnect switch, drive assembly, curb base, and accessories.

C. Housing: Removable, spun-aluminum, dome top or upblast arrangement with square, one-piece, aluminum base with venturi inlet cone.

1. Hinged Sub-base: Galvanized-steel hinged arrangement permitting service and maintenance when scheduled on the Drawings.

D. Fan Wheels: Aluminum hub and wheel with backward-inclined blades.

E. Accessories:

1. Disconnect Switch: Non-fusible type, with thermal-overload protection mounted inside fan housing, factory wired through an internal aluminum conduit.
2. Bird Screens: Removable, 1/2-inch mesh, aluminum or brass wire.
3. Dampers: Counterbalanced, parallel-blade, backdraft dampers mounted in curb base; factory set to close when fan stops.
4. Variable-speed motor controller.
5. Finish: Factory, baked enamel or Hi-Pro polyester finish.
6. As scheduled on the Drawings.

F. Roof Curbs: Galvanized steel; mitered and welded corners; 1-1/2-inch thick, rigid, fiberglass insulation adhered to inside walls; and 1-1/2-inch wood nailer. Size as required to suit roof opening and fan base.

1. Configuration: Built-in cant and mounting flange.
2. Overall Height: 18 inches or as scheduled on the Drawings.
3. Pitch Mounting: Manufacture curb for roof slope when required.
4. Metal Liner: Galvanized steel.
5. Provide welded curb adaptors as scheduled on the Drawings.

2.2 IN-LINE CENTRIFUGAL FANS

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

1. Carnes Company HVAC.
2. Greenheck.
3. Loren Cook Company.
4. Penn Ventilation.
5. Twin City Fans.

B. Description: In-line, direct-driven centrifugal fans consisting of housing, wheel, outlet guide vanes, fan shaft, bearings, motor and disconnect switch, drive assembly, mounting brackets, and accessories.

C. Housing: Square metal with inlet and outlet flanges, and support bracket adaptable to floor, side wall, or ceiling mounting.

D. Direct-Driven Units: Motor mounted in airstream.

E. Fan Wheels: Aluminum, airfoil blades welded to aluminum hub.

F. Accessories:

1. Companion Flanges: For inlet and outlet duct connections.
2. Motor and Drive Cover: Epoxy-coated steel.
3. Removable panels for access to internal parts.
4. Variable-speed motor controller.
5. Factory wired disconnect switch located on outside of fan housing.
6. Neoprene Hanger Isolators.
7. As scheduled on the Drawings.

2.3 UTILITY SET

A. Capacity, voltage, mounting arrangement and electrical characteristics as shown on the drawings.

B. Housing shall be constructed of heavy gauge steel with lock formed seams. Housing and bearing supports shall be welded steel members to rigidly support the shaft and bearings.

C. The fan wheel shall be forward curved or backward inclined as scheduled on the drawings. Wheel constructed of heavy gauge steel and shall be statically and dynamically balanced. The wheel cone and fan inlet cone shall be matched for maximum operating efficiency.

D. Motors shall be 1750 RPM, permanently lubricated, heavy duty ball bearing type matched to the fan load. Belt drive unit shall have adjustable support base.

E. The fan shaft shall be polished solid steel mounted in heavy duty, permanently sealed, pillow block ball bearings. Bearings shall be selected for a minimum L50 life of 200,000 hours at maximum operating speed.

F. Drives shall be sized for minimum of 150% of driven horsepower. Pulleys shall be fully machined cast iron type, keyed and securely attached to motor and wheel shafts. Motor pulley shall be adjustable for final system balancing.

G. Fan performance shall be based on tests conducted in accordance with AMCA Standard 210 test code for air moving devices. Fans shall bear the AMCA certified ratings seal.

H. Options: Belt guard, backdraft damper, rubber in shear vibration isolators, integral stack with discharge 7ft above fan base, spark resistant construction and as scheduled on the drawings.

I. Finish: baked enamel or Hi-Pro polyester finish.

J. Manufacturers:

1. Greenheck
2. Cook

3. ACME
4. Approved Equal

K.

1. Backdraft damper in fan outlet.
2. Companion Flanges: For inlet and outlet duct connections.
3. Motor and Drive Cover (Belt Guard): Epoxy-coated steel.
4. Removable panels for access to internal parts.
5. Factory wired disconnect switch located on outside of fan housing.
6. As scheduled on the Drawings.

2.4 DUST COLLECTORS

A. Packaged, enclosureless dust collector system consisting of spark resistant AMCA “C” rated direct-drive material handling fan, fan starter, distribution plenum with adjustable baffles, bag filter media, and dust storage containment.

B. Provide NFPA 652/654/664 compliant system design for “enclosureless” collectors. Refer to plans for additional information.

C. Painted steel frame construction.

D. Quick release mechanism on dust storage containment.

E. Refer to Dust Collector Schedule for performance requirements. This Section is responsible for fit, understanding the duct system, and coordinating all fire protection requirements with fire alarm and fire protection contractors.

F. Minimum two complete sets of spare collection bags.

G. Ten (10) year warranty.

H. Manufacturer shall coordinate with the Mechanical Contractor to ensure that the installation of the dust collection system complies with all applicable fire safety codes, NFPA standards, and FM Global requirements.

I. Startup: Provide factory authorized technician to assist contractor with equipment installation and startup; to include but not be limited to:
1. Full equipment start-up; point-by-point checkout and sign-off;
2. Dust collector system operational verification
3. TAB contractor technician assistance for adjusting dampers and set design airflow.
4. Confirmation of design airflow setpoint.
5. Fire safety equipment operational checks.

J. Owner Equipment and Safety Training: 2 hours.

K. Manufacturers:

1. Oneida-Air System
2. AQC

2.5 FUME EXTRACTORS

A. General: Packaged weld fume exhaust filtration unit with filter cleaning controls, exhaust fan, exhaust silencer, controls with performance as scheduled on the plans.

1. MERV 16 filters
2. Discharge air sound attenuator (75 dB at 5 feet from side of silencer).
3. Telescoping extraction arms (22 total), counterweighted and spring-balanced, with rotatable hood with throttle valve, 6” diameter, 350 to 940 cfm extraction capacity equivalent to Miller Filtair 6in x 7ft. Count: one per weld booth, refer to plans.

B. Accessories:

1. Remote control panel.
2. Wall mount kit for telescoping arms.
3. Pressure differential kit.
4. Upstream duct spark cooler.
5. BMS Control Interface: Provide contact for remote monitoring of fan status.
6. Fire Alarm interface/relay.

C. Mechanical spark arrestor; stainless steel, inspection door. Blender Products.

D. Refer to Fume Extractor Schedule for performance requirements. This Section is responsible for fit, understanding the duct system, and coordinating all fire protection requirements with fire alarm and fire protection contractors.

E. Manufacturer shall coordinate with the Mechanical Contractor to ensure that the installation of the fume exhaust system complies with all applicable fire safety codes, NFPA standards, and FM Global requirements.

F. Manufacturers:

1. Miller
2. AQC

G. Startup: Provide factory authorized technician to assist contractor with equipment installation and startup; to include but not be limited to:
1. Full equipment start-up; point-by-point checkout and sign-off;
2. Fume exhaust system operational verification
3. TAB contractor technician assistance for adjusting dampers and set design airflow.
4. Confirmation of design airflow setpoint.
5. Fire safety equipment operational checks.

H. Owner Equipment and Safety Training: 2 hours.

2.6 MOTORS

A. Comply with requirements in Division 20, Section 20 00 50.

B. Enclosure Type: Totally enclosed, fan cooled.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install power ventilators level and plumb.

B. Secure roof-mounting fans to roof curbs with cadmium-plated hardware. Refer to Division 07 Section "Roof Accessories" for installation of roof curbs.

C. Ceiling Units: Suspend units from structure; use all-thread rod or metal straps.

D. Support suspended units from structure using threaded steel rods and spring hangers having a static deflection of 1 inch. Vibration-control devices are specified in Division 20, Section 20 00 50.

E. Install units with clearances for service and maintenance.

F. Duct installation and connection requirements are specified in other Division 23 Sections. Drawings indicate general arrangement of ducts and duct accessories. Make final duct connections with flexible connectors.

G. Install ducts adjacent to power ventilators to allow service and maintenance.

H. Ground equipment according to Division 26 Specifications.

I. Connect wiring according to Division 26 Specifications.

3.2 FIELD QUALITY CONTROL

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

1. Verify that shipping, blocking, and bracing are removed.
2. Verify that unit is secure on mountings and supporting devices and that connections to ducts and electrical components are complete. Verify that proper thermal-overload protection is installed in motors, starters, and disconnect switches.
3. Verify that cleaning and adjusting are complete.
4. Disconnect fan drive from motor, verify proper motor rotation direction, and verify fan wheel free rotation and smooth bearing operation. Reconnect fan drive system, align and adjust belts, and install belt guards.
5. Adjust belt tension.
6. Adjust damper linkages for proper damper operation.
7. Verify lubrication for bearings and other moving parts.
8. Verify that manual and automatic volume control and fire and smoke dampers in connected ductwork systems are in fully open position.
9. Disable automatic temperature-control operators, energize motor and adjust fan to indicated rpm, and measure and record motor voltage and amperage.
10. Shut unit down and reconnect automatic temperature-control operators.
11. Remove and replace malfunctioning units and retest as specified above.

B. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

END OF SECTION

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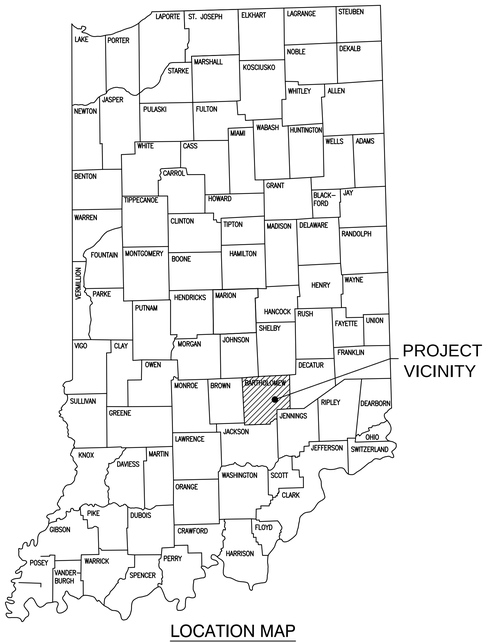
C4 BUILDING EXPANSION
COLUMBUS EAST HIGH SCHOOL

230 S MARR RD
COLUMBUS, INDIANA 47201

CIVIL PLANS
OCTOBER 24, 2025

ADDENDUM #03 - NOVEMBER 10, 2025 3



LOCATION MAP

VICINITY MAP
BASE IMAGE FROM GOOGLE EARTH
ACCESSED SEPTEMBER, 2025
SCALE: 1"=150'

NORTH

SCALE IN FEET
0 150' 300'

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BENCHMARKS:

UNLESS OTHERWISE NOTED, ELEVATIONS SHOWN HEREON ARE BASED UPON AN OPUS SOLUTION AND ARE ON THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD88 (GEOID 18)). IT IS MY OPINION THAT THE UNCERTAINTY IN THE ELEVATION OF THE PROJECT BENCHMARK DOES NOT EXCEED 0.10 FOOT.

TBM#1: CUT "X" ON THE WEST BONNET BOLT OF A FIRE HYDRANT LOCATED AT THE NORTHEAST QUADRANT OF INTERSECTION OF SALZBURG BLVD. AND INDIANA AVE.

ELEV. = 622.94

TBM#2: CUT SQUARE ON TOP OF THE NORTH SIDE OF A CONCRETE STADIUM LIGHT BASE LOCATED AT THE SOUTHEAST CORNER OF THE FOOTBALL FIELD.

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TBM#4: MAG SPIKE ON THE SOUTH SIDE OF UTILITY POLE #211620 LOCATED ON THE NORTH SIDE OF INDIANA AVE., 220'± EAST OF INDIANA CT.

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TBM#7: MAG SPIKE ON THE EAST FACE OF SIREN POLE LOCATED 110'± SOUTHWEST OF THE SOUTHWEST CORNER OF THE TENNIS COURTS.

ELEV. = 625.25

TBMS 1-3 WERE ESTABLISHED AS PART OF CEC PROJECT NUMBER 315-436

UTILITY NOTE:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. INDIANA 811 ONE-CALL PUBLIC UTILITY LOCATE SERVICE TICKET NUMBERS 250611069?2 AND 250611070?3 WERE ISSUED FOR THIS SITE. MASON PRIVATE LOCATING, A PRIVATE SUBSURFACE UTILITY LOCATING SERVICE, WAS CONTRACTED TO PERFORM THE PRIVATE UTILITY LOCATIONS FOR THE SUBJECT SITE. THE PRIVATE UTILITIES LOCATED AND DEPICTED HEREIN WERE EITHER OBSERVED FROM MARKINGS ON THE GROUND OR USING EXISTING PLANS.

PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO GAS, WATER, AND SANITARY SEWER. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND THE APPROPRIATE AUTHORITIES.

FLOOD NOTE:

THE PARCEL DESCRIBED AND SHOWN HEREIN LIES WITHIN ZONES "X" (UN-SHADED) AND "X" (SHADED) AS SAID PARCEL PLOTS ON MAP NUMBER 18005C0134F (DATED FEBRUARY 23, 2023) OF THE FLOOD INSURANCE RATE MAPS FOR THE CITY OF COLUMBUS, BARTHOLOMEW COUNTY, INDIANA. THE ACCURACY OF THIS FLOOD HAZARD STATEMENT IS SUBJECT TO MAP SCALE UNCERTAINTY AND TO ANY OTHER UNCERTAINTY IN LOCATION OR ELEVATION ON THE REFERENCED FLOOD INSURANCE RATE MAP.

REFERENCE

1. TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CEC, INC.; DATED JULY 17, 2025.

Indiana 811
Know what's below. Call before you dig.

BCSC
TOGETHER WE LEARN

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PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 S Marr Rd
Columbus, Indiana 47201

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, and the general requirements for the size of the type of structural, mechanical and electrical systems.
The drawings do not necessarily indicate or describe all the materials, labor, and workmanship 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:
11/10/2025 - ADDENDUM #03

ISSUE DATE	DRAWN BY	CHECKED BY
10/24/25		JMP

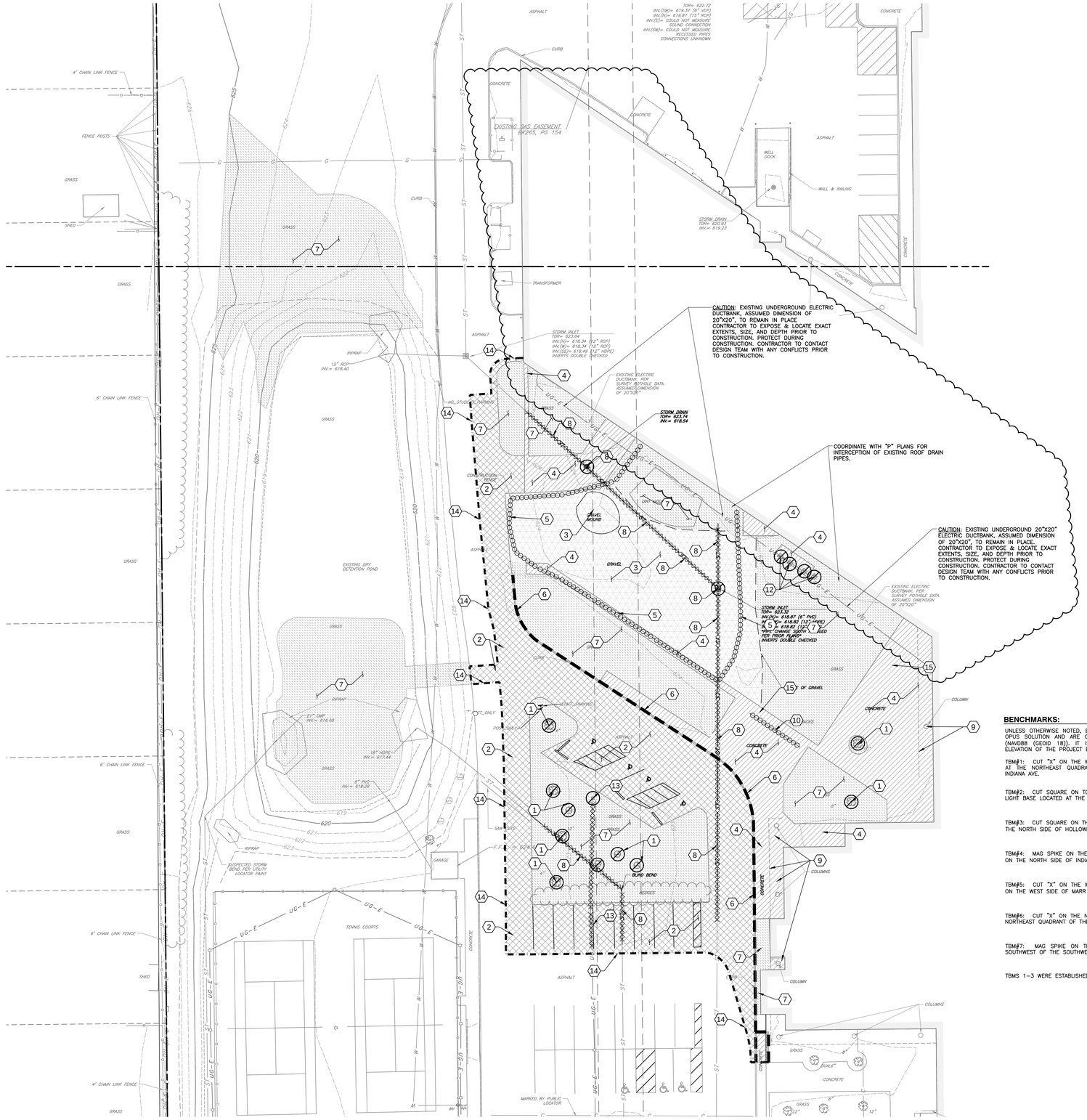
DRAWING TITLE:
TITLE SHEET

CERTIFIED BY:

DRAWING NUMBER
C000

PROJECT NUMBER
2025022

NORTH



CAUTION: EXISTING UNDERGROUND ELECTRIC DUCTBANK, ASSUMED DIMENSION OF 20"X20", TO REMAIN IN PLACE. CONTRACTOR TO EXPOSE & LOCATE EXACT EXTENTS, SIZE, AND DEPTH PRIOR TO CONSTRUCTION. PROTECT DURING CONSTRUCTION. CONTRACTOR TO CONTACT DESIGN TEAM WITH ANY CONFLICTS PRIOR TO CONSTRUCTION.

COORDINATE WITH "P" PLANS FOR INTERCEPTION OF EXISTING ROOF DRAIN PIPES.

CAUTION: EXISTING UNDERGROUND 20"X20" ELECTRIC DUCTBANK, ASSUMED DIMENSION OF 20"X20", TO REMAIN IN PLACE. CONTRACTOR TO EXPOSE & LOCATE EXACT EXTENTS, SIZE, AND DEPTH PRIOR TO CONSTRUCTION. PROTECT DURING CONSTRUCTION. CONTRACTOR TO CONTACT DESIGN TEAM WITH ANY CONFLICTS PRIOR TO CONSTRUCTION.

GENERAL DEMOLITION NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OFF-SITE OF ALL ITEMS SHOWN ON THE DEMOLITION PLAN INCLUDING ITEMS ENCOUNTERED DURING EXCAVATION OF BUILDING FOUNDATIONS AND UTILITY PLACEMENT.
2. PRIOR TO STARTING DEMOLITION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY LOCAL GOVERNMENTAL AGENCIES.
3. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANIES FOR THE DISCONNECTION AND REMOVAL OF SERVICES TO EXISTING STRUCTURES.
4. ITEMS SHOWN ON THE DEMOLITION PLAN TO BE SALVAGED SHALL BE TRANSPORTED TO LOCATION SPECIFIED BY THE OWNER OR HIS/HER REPRESENTATIVE.
5. ITEMS OF SALVAGEABLE VALUE TO THE CONTRACTOR MAY BE REMOVED WITH THE OWNER OR HIS/HER REPRESENTATIVE'S PERMISSION. THE CONTRACTOR SHALL NOT STORE THESE ITEMS ON SITE.
6. THE CONTRACTOR MAY NOT USE EXPLOSIVES OR BURN DEBRIS.
7. CONDUCT DEMOLITION OPERATIONS TO ENSURE MINIMAL INTERFERENCE WITH ROADS, SIDEWALKS AND ANY OTHER ADJACENT OCCUPIED FACILITIES.
8. DO NOT CLOSE OR OBSTRUCT ROADS, SIDEWALKS OR ANY OTHER OCCUPIED FACILITIES WITHOUT PERMISSION FROM THE LOCAL AUTHORITY HAVING JURISDICTION AND/ OR PROPERTY OWNERS.
9. THE CONTRACTOR SHALL ENSURE SAFE PASSAGE OF PERSON TRAVERSING THROUGH OR AROUND THE CONSTRUCTION SITE.
10. THE CONTRACTOR SHALL PROTECT FROM DAMAGE, SURROUNDING STRUCTURES, UTILITIES AND OTHER FACILITIES DURING DEMOLITION AND REMOVAL OPERATIONS.
11. BUILDING STRUCTURES INCLUDING FOUNDATIONS OR BASEMENTS SHALL BE REMOVED AND BACKFILLED WITH APPROVED BACKFILL MATERIAL. BACKFILL MATERIAL SHALL BE PLACED IN MAXIMUM EIGHT INCH LIFTS AND COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT OR A MINIMUM OF 95% OF A STANDARD PROCTOR.
12. UTILITIES SHALL BE REMOVED AND BACKFILLED WITH APPROVED BACKFILL MATERIAL. BACKFILL MATERIAL SHALL BE PLACED IN MAXIMUM EIGHT INCH LIFTS AND COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT OR A MINIMUM OF 95% OF A STANDARD PROCTOR.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE CONSTRUCTION SITE AND SURROUNDING AREAS ARE FREE OF ACCUMULATED DEBRIS.
14. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THE CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.
15. BEFORE INSTALLATION OF STORM OR OTHER UTILITY, THE CONTRACTOR SHALL VERIFY ALL CROSSINGS, BY EXCAVATION WHERE NECESSARY, AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS. THE ENGINEER WILL BE HELD HARMLESS IN THE EVENT HE IS NOT NOTIFIED OF DESIGN CONFLICTS PRIOR TO CONSTRUCTION.

DEMOLITION LEGEND:

- ASPHALT TO BE REMOVED
- CONCRETE TO BE REMOVED
- LANDSCAPING TO BE REMOVED, INCLUDING GRAVEL MULCH BEDS
- EXISTING BUILDING TO BE REMOVED
- EXISTING GRAVEL PAVEMENT TO BE REMOVED
- EXISTING TO BE MILLED AND RESURFACED
- AREA OF UNDERBRUSH/LOOSE VEGETATION CLEARING
- CONCRETE CURB TO BE REMOVED
- SAWCUT EXISTING PAVEMENT
- EXISTING UTILITY TO BE REMOVED
- MISC. ITEM TO BE REMOVED
- MISC. ITEM TO BE REMOVED

DEMOLITION ITEMS:

1. REMOVE EXISTING TREE COMPLETE; DISPOSE OF OFF SITE.
2. EXISTING ASPHALT & BASE TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.
3. REMOVE GRAVEL TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.
4. EXISTING CONC. TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.
5. EXISTING CONSTRUCTION FENCE TO BE REMOVED; RETURN TO OWNER.
6. REMOVE CONCRETE CURB COMPLETE; DISPOSE OF OFF SITE.
7. CONTRACTOR TO CLEAR VEGETATION INCLUDING SHRUBS, TURF, MULCH, ETC. STRIP 6" MIN. TOPSOIL; DISPOSE OF OFF SITE.
8. REMOVE EXISTING STORM STRUCTURE, AND DRAINAGE PIPE COMPLETE; DISPOSE OF OFF SITE.
9. EXISTING BUIDING CANOPY AND COLUMNS; REFER TO ARCHITECTURAL PLANS FOR MODIFICATION. PROTECT EXISTING STRUCTURE.
10. REMOVE BIKE RACK COMPLETE AND STORE; COORDINATE WITH OWNER FOR REUSE ON SITE.
11. EXISTING LANDSCAPING TO BE REMOVED COMPLETE INCLUDING GRAVEL MULCH BEDS; DISPOSE OF OFF SITE
12. REMOVE EXISTING AIR CONDITIONING UNITS (FOUR) AND CONCRETE PADS (FOUR) COMPLETE; DISPOSE OF OFF SITE.
13. REMOVE EXISTING LIGHT POLES AND CONCRETE BASES COMPLETE; CUT, CAP AND REMOVE ELECTRIC CONDUIT. COORDINATE WITH OWNER ON REUSE OR DISPOSAL OFF SITE
14. SAW CUT, FULL DEPTH
15. COORDINATE WITH OWNER ON REMOVAL/RELOCATION OF EXISTING SITE FURNISHINGS

BENCHMARKS:

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REFERENCE

1. TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CEC, INC.; DATED JULY 17, 2025.

SCALE IN FEET
0 20' 40'

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PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 S Marr Rd
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SCOPE DRAWINGS:
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REVISIONS:
1 11/10/2025 - ADDENDUM #03

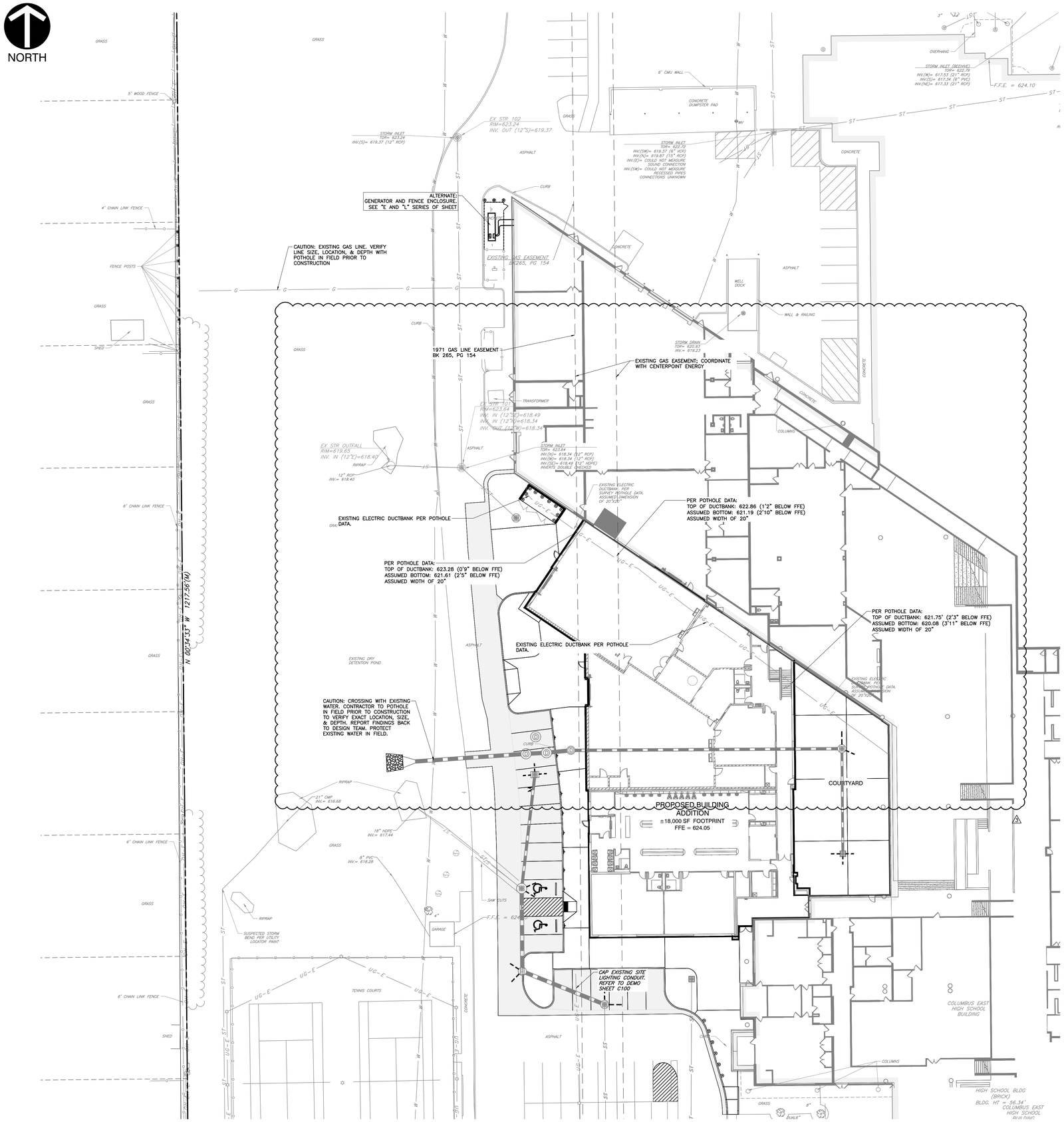
ISSUE DATE	DRAWN BY	CHECKED BY
10/24/25	SGJ	JMP

DRAWING TITLE:
DEMOLITION PLAN

CERTIFIED BY:

DRAWING NUMBER
C100

PROJECT NUMBER
2025022



GENERAL UTILITY NOTES:

1. THE UTILITIES INDICATED ON THESE PLANS AND ON THE SURVEY MAY NOT BE A COMPLETE INVENTORY OF ALL THE EXISTING UTILITIES PRESENT ON AND AROUND THE SITE. THE LOCATION AND SIZE OF THESE UTILITIES MAY BE APPROXIMATE. THE ENGINEER SHALL NOT BE HELD LIABLE FOR ANY INACCURATE UTILITY INFORMATION INDICATED, IMPLIED, OR NOT INDICATED ON THESE PLANS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND MAINTAIN IN SERVICE ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED IN THE DRAWINGS. ANY PIPING, WHICH CAN BE REMOVED DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION OF SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR, AT HIS EXPENSE WITH THE PERMISSION OF THE OWNER.
3. BEFORE WORKING WITH OR AROUND EXISTING UTILITIES, THE APPLICABLE UTILITY COMPANY SHALL BE CONTACTED BY THE CONTRACTOR.
4. WHEN CONNECTIONS ARE TO BE MADE TO EXISTING PIPING AND STRUCTURES OR WHERE CONSTRUCTION IS IN THE VICINITY OF EXISTING PIPING THE LOCATION AND ELEVATION OF THE EXISTING PIPING SHALL BE FIELD VERIFIED AND NOTIFICATION GIVEN TO THE OWNER IF THE EXISTING PIPING IS FOUND TO BE DIFFERENT THAN THAT SHOWN ON THE DRAWINGS.
5. FOR CLARITY OF THESE DRAWINGS, PIPES MAY NOT BE DRAWN TO SCALE OR EXACTLY LOCATED.
6. ALL NEW WATER LINES SHALL HAVE A MINIMUM OF 54 INCHES OF COVER.
7. MINIMUM OF 18 INCHES OF VERTICAL CLEARANCE SHALL BE PROVIDED BETWEEN NEW WATER AND SANITARY SEWER LINES. IF 18 INCHES OF CLEARANCE IS NOT PROVIDED THEN THE SEWER MUST BE CONSTRUCTED OF WATER WORKS GRADE DUCTILE IRON PIPE WITH MECHANICAL JOINTS WITHIN TEN FEET OF THE WATER LINE.
8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR OR CONTRACTORS TO OBTAIN ALL FEDERAL, STATE, COUNTY, CITY OR LOCAL PERMITS FOR ANY AND ALL WORK REQUIRED UNLESS OTHERWISE NOTED. THE CONTRACTOR OR CONTRACTORS ARE RESPONSIBLE TO PAY FOR ALL REQUIRED PERMITS BY ANY OR ALL AGENCIES MENTIONED ABOVE UNLESS OTHERWISE NOTED IN THE CONTRACT OR SPECIFICATIONS. ALL ASSOCIATED BONDING REQUIREMENTS AND COSTS ARE INCIDENTAL TO THE CONTRACT.
9. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS AND ELEVATIONS DURING THE ENTIRE CONSTRUCTION SCHEDULE. IF ANY DISCREPANCIES ARE FOUND IN THESE ENGINEERING PLANS FROM ACTUAL FIELD DIMENSIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
10. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
11. CONTRACTOR IS RESPONSIBLE FOR ELECTRIC, TELEPHONE, AND CABLE CONDUITS AND TRENCHING. COORDINATE WITH THE LOCAL UTILITY PROVIDERS AND MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR SIZES AND QUANTITIES.
12. ENSURE THE BACKFLOW PREVENTION MEETS INDIANA CROSS CONNECTION CONTROL MANUAL.
13. WATER AND SANITARY SEWER CONNECTIONS MUST MEET CURRENT CCU STANDARD SPECIFICATIONS AND DETAILS.
14. CCU MUST PARTICIPATE IN ON-SITE PRE-CONSTRUCTION MEETING.
15. FINAL UTILITY PLAN RECORD DRAWINGS SHALL BE PROVIDED TO CCU AFTER CONNECTIONS ARE COMPLETED.
16. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THE CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.
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UTILITY LEGEND:

- PROPOSED STORM SEWER LINE
- SAN — PROPOSED SANITARY LINE
- E — PROPOSED ELECTRIC LINE
- T — PROPOSED TELEPHONE LINE
- FO — PROPOSED FIBER OPTIC LINE
- G — PROPOSED GAS LINE
- W — PROPOSED WATER LINE
- PROPOSED OVERHEAD UTILITY LINE
- PROPOSED CONDUIT
- PROPOSED LIGHT POLE
- PROPOSED WALL MOUNTED FDC, HYDRANT, WALL PIV, WATER VALVE, FREE STANDING FDC
- PROPOSED SANITARY MANHOLE, CLEAN OUT
- PROPOSED ELECTRIC TRANSFORMER

BENCHMARKS:

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TBM#3: CUT SQUARE ON THE INSIDE CORNER OF THE SIDEWALK LOCATED ON THE NORTH SIDE OF HOLLOWELL ST., 375'± EAST OF MARR RD.
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TBM#4: MAG SPIKE ON THE SOUTH SIDE OF UTILITY POLE #211620 LOCATED ON THE NORTH SIDE OF INDIANA AVE., 220'± EAST OF INDIANA CT.
ELEV. = 630.38

TBM#5: CUT "X" ON THE WEST BONNET BOLT OF A FIRE HYDRANT LOCATED ON THE WEST SIDE OF MARR RD., 710'± SOUTH OF INDIANA AVE.
ELEV. = 622.06

TBM#6: CUT "X" ON THE NORTH BOLT OF A TRAFFIC POLE LOCATED IN THE NORTHEAST QUADRANT OF THE INTERSECTION OF MARR RD. AND S.R. 46.
ELEV. = 622.37

TBM#7: MAG SPIKE ON THE EAST FACE OF SIREN POLE LOCATED 110'± SOUTHWEST OF THE SOUTHWEST CORNER OF THE TENNIS COURTS.
ELEV. = 625.25

TBMS 1-3 WERE ESTABLISHED AS PART OF CEC PROJECT NUMBER 315-436

UTILITY NOTE:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. INDIANA 811 ONE-CALL PUBLIC UTILITY LOCATE SERVICE TICKET NUMBERS 250611069172 AND 250611070123 WERE ISSUED FOR THIS SITE. MASON PRIVATE LOCATING, A PRIVATE SUBSURFACE UTILITY LOCATING SERVICE, WAS CONTRACTED TO PERFORM THE PRIVATE UTILITY LOCATIONS FOR THE SUBJECT SITE. THE PRIVATE UTILITIES LOCATED AND DEPICTED HEREIN WERE EITHER OBSERVED FROM MARKINGS ON THE GROUND OR USING EXISTING PLANS.

PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO GAS, WATER, AND SANITARY SEWER. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND THE APPROPRIATE AUTHORITIES.

FLOOD NOTE:

THE PARCEL DESCRIBED AND SHOWN HEREIN LIES WITHIN ZONES "X" (UN-SHADED) AND "X" (SHADED) AS SAID PARCEL PLOTS ON MAP NUMBER 18005C0134F (DATED FEBRUARY 23, 2023) OF THE FLOOD INSURANCE RATE MAPS FOR THE CITY OF COLUMBUS, BARTHOLOMEW COUNTY, INDIANA. THE ACCURACY OF THIS FLOOD HAZARD STATEMENT IS SUBJECT TO MAP SCALE UNCERTAINTY AND TO ANY OTHER UNCERTAINTY IN LOCATION OR ELEVATION ON THE REFERENCED FLOOD INSURANCE RATE MAP.

REFERENCE

1. TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CEC, INC.; DATED JULY 17, 2025.

SCALE IN FEET
0 20' 40'

Indiana 811
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CEC
Civil & Environmental Consultants, Inc.
433 N. CAPITOL AVENUE, SUITE 200
INDIANAPOLIS, IN 46204
www.cecinc.com

PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 S Marr Rd
Columbus, Indiana 47201

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 Contract Documents are intended to describe all work required for full performance and completion of the requirements of the Contract.
It is the contractors responsibility to include all trade scope indicated or described in the Trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:
1 11/10/2025 - ADDENDUM #03

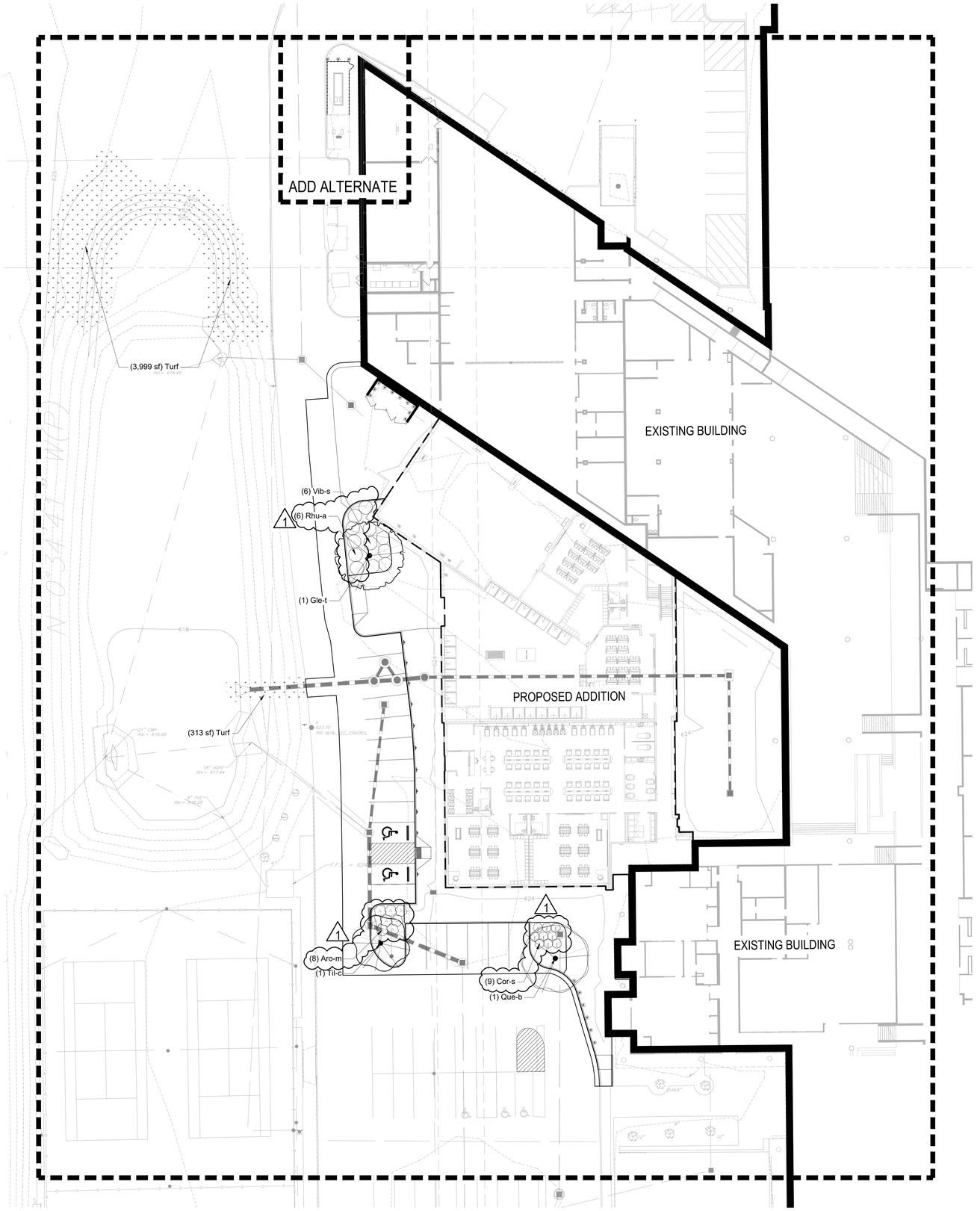
ISSUE DATE	DRAWN BY	CHECKED BY
10/24/25		JMP

DRAWING TITLE:
UTILITY PLAN

CERTIFIED BY:

DRAWING NUMBER
C500

PROJECT NUMBER
2025022



GENERAL LANDSCAPE AND PLANTING NOTES

1. Refer to Project Manual for Planting Specifications and Topsoil requirements. Refer to Plant Schedule and Planting Details for additional information.
2. All materials are subject to the approval of the Landscape Architect and Owner at any time. Landscape Architect to inspect all plant locations and plant bed conditions prior to installation. On-site adjustments may be required.
3. Rootballs shall meet or exceed size standards as set forth in 'American Standards for Nursery Stock'. MAIN LEADERS OF ALL TREES SHALL REMAIN INTACT.
4. Remove from the site any plant material that turns brown or defoliates within five (5) days after planting. Replace immediately with approved, specified material.
5. Plant counts indicated on drawings are for Landscape Architect's use only. Contractor shall make own plant quantity takeoffs using drawings, specifications, and plant schedule requirements (i.e., spacing), unless otherwise directed by Landscape Architect. Contractor to verify bed measurements and install appropriate quantities as governed by plant spacing per schedule. Plant material quantities shown on plan are minimum quantities. Additional material may be needed to meet spacing requirements and field conditions.
6. Seed all areas disturbed by construction activities that are not otherwise noted to receive pavement, planting bed, or sod treatment.
7. The Contractor shall install and/or amend topsoil in all proposed bed areas to meet Specifications. Contractor shall coordinate quantity and placement of topsoil. Landscaper shall verify depth of topsoil prior to plant installation. (Refer to specifications for topsoil source and placement requirements)
8. All tree locations shall be marked with 2x2" stakes prior to planting for review and approval by the Landscape Architect. Any plant material installed in an incorrect location, by the judgment of the Landscape Architect, shall be reinstalled at the Contractor's expense.
9. All plant beds shall receive 3" minimum of shredded hardwood bark mulch (unless otherwise noted).
10. Verify all utility locations in the field prior to beginning work. Repair all damaged utilities to Owner's satisfaction at no additional cost.
11. The Contractor shall maintain all plant material and lawns until the project is fully accepted by the Landscape Architect, unless otherwise noted.
12. All workmanship and materials shall be guaranteed by the Contractor for a period of one calendar year after Final Acceptance.
13. Install all plant material in accordance with all local codes and ordinances. Coordinate with the Owner to obtain any required permits necessary to complete work.
14. Contractor shall test all tree pits for drainage. Any tree pit that holds water for more than 24 hours shall be installed using tree pit drainage.
15. Tree Protection Fencing is the responsibility of the Contractor. Minimum protected area shall include the full drip line of the canopy. NO construction activities, material storage, etc. may occur within that area. The Contractor shall ensure that no soil compaction or tree damage occurs in any Protected areas, at any time during the construction process.
16. Trees shall be matched in groups unless otherwise noted.

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PROJECT:
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Columbus, Indiana 47201

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The drawings do not necessarily indicate or describe all work required for full completion and compliance 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 03 11/10/2025

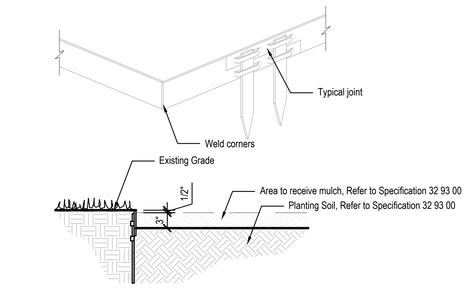
ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	MA	LM

DRAWING TITLE:
SITE PLANTING PLAN

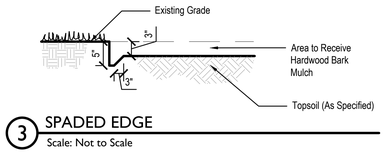
CERTIFIED BY:
FREDDIE J. PRAZEAU
REGISTERED
No. 2020-0052
STATE OF INDIANA
LANDSCAPE ARCHITECT
EXPIRES 12-31-2025

DRAWING NUMBER
L401

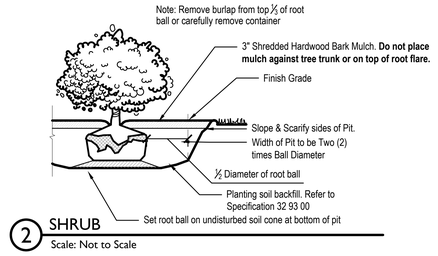
PROJECT NUMBER
2025022



4 STEEL EDGE
Scale: 1" = 1'-0"



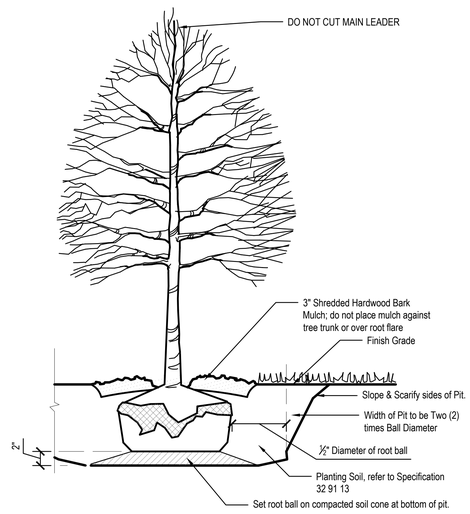
3 SPADED EDGE
Scale: Not to Scale



2 SHRUB
Scale: Not to Scale

PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	REMARKS
DECIDUOUS TREES						
Gle-t	1	Gleditsia triacanthos inermis `Skycole`	Skyline Thornless Honeylocust	B & B	2"Cal	full, strong central leader, matched
Que-b	1	Quercus bicolor	Swamp White Oak	B & B	2"Cal	spring dug, full, strong central leader, matched
Til-c	1	Tilia cordata `Greenspire`	Greenspire Littleleaf Linden	B & B	2"Cal	full, strong central leader, matched
CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	HEIGHT	REMARKS
SHRUBS						
Aro-m	8	Aronia melanocarpa `Autumn Magic`	Autumn Magic Black Chokeberry	container	24"	space @ 5`-0" o.c.
Cor-s	9	Cornus sericea `Cardinal`	Cardinal Red-twig Dogwood	container	24"	space @ 4`-0" o.c.
Rhu-a	6	Rhus aromatica `Gro-Low`	Gro-Low Fragrant Sumac	container	18" spread	space @ 4`-0" o.c., allow to mass
Vib-s	6	Viburnum plicatum tomentosum `Summer Snowflake`	Summer Snowflake Japanese Snowball	container	36"	space @ 6`-0" o.c.
CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING	REMARKS
GROUND COVERS						
Turf	4,312 sf	Turf Seed		seed		



1 SHADE TREE
Scale: Not to Scale

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The drawings do not necessarily indicate or describe all work required for full completion of the project in accordance with the intent of the design.
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 03 11/10/2025

ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	MA	LM

DRAWING TITLE:
PLANTING SCHEDULE & DETAILS

CERTIFIED BY:
FREDDIE J. PRAZENKA
REGISTERED
No. 2020-0052
STATE OF INDIANA
LANDSCAPE ARCHITECT
EXPIRES 12-31-2025

DRAWING NUMBER
L410

PROJECT NUMBER
2025022

COORDINATION WITH OTHER TRADES

1. The Contractor shall coordinate and check all dimensions relating to Architectural finishes, mechanical equipment and openings, elevator shafts and overrides, etc. and notify the Architect/Engineer of any discrepancies before proceeding with any work in the area under question.
2. The Structural Drawings shall be used in conjunction with the Drawings of all other disciplines and the Specifications. The Contractor shall verify the requirements of other trades as to sleeves, chases, hangers, inserts, anchors, holes, and other items to be placed or set in the Structural Work.
3. There shall be no vertical or horizontal sleeves set, or holes cut or drilled in any beam or column unless shown on the Structural Drawings or approved in writing by the SER.
4. Mechanical and electrical openings through supported slabs and walls, 8" diameter or larger not shown on the Structural Drawings must be approved by the SER. Openings less than 8" diameter shall have at least 1'-0" clear between openings, unless approved in writing by the SER.
5. Verify locations and dimensions of mechanical and electrical openings through supported slabs and walls shown on the Structural Drawings with the Mechanical and Electrical Contractors.
6. Do not install conduit in supported slabs, slabs on grade, or concrete walls unless explicitly shown or noted on the Structural Drawings.
7. Do not suspend any items, such as ductwork, mechanical or electrical fixtures, ceilings, etc. from steel roof deck or wood roof sheathing.
8. The Mechanical Contractor shall verify that mechanical units supported by steel framing are capable of spanning the distance between the supporting members indicated on the Structural Drawings. The Mechanical Contractor shall supply additional support framing as required.
9. If the Drawings and Specifications are in conflict, the most stringent restrictions and requirements shall govern.

GENERAL NOTES

1. The Contractor shall be responsible for complying with all safety precautions and regulations during the work. The SER will not advise on, nor issue direction as to safety precautions and programs.
2. The Structural Drawings herein represent the finished structure. The Contractor shall provide all temporary guying and bracing required to erect and hold the structure in proper alignment until all Structural Work and connections have been completed. The investigation, design, safety, adequacy and inspection of the bracing, shoring, temporary supports, etc. is the sole responsibility of the Contractor.
3. The SER shall not be responsible for the methods, techniques and sequences of procedures to perform the Work. The supervision of the Work is the sole responsibility of the Contractor.
4. The Drawings indicate general and typical details of construction. Where conditions are not specifically shown, similar details of construction shall be used, subject to approval of the SER.
5. All structural systems which are to be composed of components to be field erected shall be supervised by the Supplier during manufacturing, delivery, handling, storage, and erection in accordance with the Supplier's instructions and requirements.
6. Loading applied to the structure during the process of construction shall not exceed the safe load-carrying capacity of the structural members. The live loads used in the design of this structure are indicated in the "Design Criteria Notes." Do not apply any construction loads until structural framing is properly connected together and until all permanent bracing is in place.
7. All ASTM and other referenced standards and codes are for the latest editions of these publications, unless noted otherwise.
8. Shop drawings and other items shall be submitted to the SER for review prior to fabrication. All Shop Drawings shall be reviewed by the Contractor before submittal. The SER's review is to be for conformance with the design concept and general compliance with the relevant Contract Documents. The SER's review does not relieve the Contractor of the sole responsibility to review, check, and coordinate the Shop Drawings prior to submission. The Contractor remains solely responsible for errors and omissions assocated with the preparation of Shop Drawings as they pertain to member sizes, details, dimensions, etc.
9. Submit Shop Drawings electronically. In no case shall reproductions of the Contract Documents be used as Shop Drawings. As a minimum, submit the following items for review.
   - A. Concrete Mix Design(s).
   - B. Reinforcing Steel Shop Drawings.
   - C. Masonry Wall Reinforcing Steel Shop Drawings.
   - D. Structural Steel Shop Drawings.
   - E. Steel Joist Shop Drawings.
   - F. Steel Deck Shop Drawings.
   - G. Cold-Formed Steel Framing Systems.
10. Resubmitted Shop Drawings: Resubmitted shop drawings are reviewed only for responses to comments made in the previous submittal.
11. When calculations are included in the submittals for components of work designed and certified by a Specialty Structural Engineer, the review by the Structural Engineer of Record (SER) shall be for conformance with the relevant Contract Documents. The SER's review does not relieve the Specialty Structural Engineer from responsiblity for the design of the system(s) and the coordination with the elements of the structure under the certification of the Engineer of Record, or other Specialty Structural Engineer. The SER's review does not constitute a warranty of the accuracy or completeness of the Specialty Structural Engineer's design.
12. Contractors shall visit the site prior to bid to ascertain conditions which may adversely affect the work or cost thereof.
13. No structural member may be cut, notched, or otherwise reduced in strength without written direction from the SER.
14. When modifications are proposed to structural elements under the design and certification of a Specialty Engineer, written authorization by the Specialty Engineer must be obtained and submitted to the SER for review, prior to performing the proposed modifications.

FOUNDATIONS

1. Interior slabs on grade shall bear on ground improved by the installation of a grid of aggregate piers with aggregate pier spacing to be determined by the Specialty Contractor's delegated designer.
2. All engineered fill beneath slabs and over footings should be compacted to a dry density of at least 95% of the Standard Proctor maximum dry density (ASTM D698). All fill which shall be stressed by foundation loads shall be approved granular materials compacted to a dry density of at least 100% (ASTM D698). Coordinate all fill and compaction operations with the Specifications and the Subsurface Investigation.
3. Compaction shall be accomplished by placing fill in approx. 8" lifts and mechanically compacting each lift to at least the specified minimum dry density. For large areas of fill, field density tests shall be performed for each 3,000 square feet of building area for each lift as necessary to insure adequate compaction is being achieved.
4. Column footings and wall footings have been sized/designed to bear on ground improved by the installation of aggregate piers, with an assumed allowable bearing pressure of 3000 PSF.

   The Owner's Geotechnical Agency shall continuously monitor the aggregate pier installation including the initial stone column modulus testing (load tests). The QC program includes the verification of bottom stabilization, measurement of drill depths and aggregate lift thickness. These items should be documented for each pier installed to provide a complete record of foundation quality.
5. Place footings the same day the excavation is performed. If this is not possible, the footings shall be adequately protected against any detrimental change in condition, such as from disturbance, rain and freezing.
6. It is the responsibility of the Contractor and each Sub-Contractor to verify the location of all utilities and services shown, or not shown, and establish safe working conditions before commencing work.
7. The Contractor shall lay out the entire building and field verify all dimensions prior to excavation.
8. For information regarding subsurface conditions, refer to the Report of Geotechnical Engineering Exploration prepared by Patriot Engineering and Environmental, Inc., Patriot Project No. 25-1296-01G, dated September 24, 2025.

POST-INSTALLED DOWELS & ANCHOR RODS

1. All reinforcing steel and threaded rod anchors to be installed in 2-part chemical anchoring system shall be treated as follows:
   - A. Drill holes larger than bar or rod to be embedded. Coordinate hole diameter with Manufacturer's requirements.
   - B. Holes must be cleaned and prepared in accordance with Manufacturer's requirements.
   - C. When reinforcing steel is encountered during drilling for installation of anchors, stop drilling and use a sensor to locate the reinforcing in the surrounding area and install anchor(s) as close as possible to the original location. Contact the Structural Engineer of Record for direction when the revised location is more than 2" from the original location, or when the original function of the anchorage is significantly altered. When in doubt, contact the SER for direction.
   - D. Drill the hole a minimum of 15 bar diameters or as shown on the Drawings.
   - E. Use a 2-part adhesive anchoring system, Hilti HIT-HY 200, or approved equal.
   - F. For anchorage into hollow substrate, use Hilti HIT-HY 270, or approved equal.
   - G. Reinforcing steel dowels shall be ASTM A615, Grade 60, unless noted.
   - H. Anchor rods shall be ISO 898 5.8 (Hilti HAS-E), unless noted. Provide finish as noted on the Drawings. If not noted, provide hot-dip galvanized finish for interior applications. Provide stainless steel finish for exterior applications, unless noted.
2. When column anchor bolts/rods have been omitted, or damaged by construction operations, the Contractor must obtain the written approval of the SER prior to repair and/or replacement.
   - A. As a precaution, the affected column must be guyed and braced after repair for the balance of the erection period.
   - B. As an alternate to guying and bracing, the Contractor may at his option, employ a testing agency to perform a tensile pull test to confirm the strength of the repaired or replaced anchor bolt/rod. The tensile proof load must exceed 1.33 x the design load of the original anchor without causing distress of the anchor bolt/rod or the surrounding concrete. Reference the following table for the minimum proof loads:

     3/4" diameter: 11.6 kips
     7/8" diameter: 16.0 kips
     1" diameter: 20.9 kips

     Note: Values listed above are for ASTM F1554, Grade 36 material. When higher grade or strength materials are specified, refer to the AISC Manual of Steel Construction for minimum allowable loads to be multiplied by 1.33.
   - C. When affected anchor bolts/rods are part of a fixed moment-resisting column base, such as those in moment-resisting space frames, canopies, or fixed-base installations, the repaired anchor bolts/rods must be proof-loaded, or the affected column footing and/or pier replaced in its entirety.
   - D. When affected anchor bolts/rods are 1-1/8" diameter or larger, the affected column footing and/or pier must be replaced in its entirety.
   - E. When affected anchor bolts/rods are part of a braced frame, the affected column footing and/or pier must be replaced in its entirety.
   - F. Prior to erection, the controlling Contractor must provide written notification to the Steel Erector if there has been a repair, replacement or modification of the anchor bolts/rods for that column.

DESIGN CRITERIA

1. DESIGN STANDARDS: The intended design standards and/or criteria are as follows:

General	The 2014 Indiana Building Code (2012 International Building Code [IBC] with Indiana Amendments)
Concrete	ACI318
Masonry	ACI 530 / TMS 402
Steel	AISC Manual, Allowable Stress Design (ASD)
Steel Joists/Girders	Steel Joist Institute
Steel Deck	Steel Deck Institute
Cold-Formed Metal	AISI-ASD

   All referenced standards and codes, as well as ASTM numbers are for the latest editions of these publications, unless otherwise noted.
2. DEAD LOADS: Gravity Dead Loads used in the design of the structure are as computed for the materials of construction incorporated into the building, including but not limited to walls, floors, ceilings, stairways, fixed partitions, finishes, cladding and other similar architectural and structural items, as well as mechanical, electrical and plumbing equipment and fixtures, and material handling and fixed service equipment, including the weight of cranes.
3. LIVE LOADS: Gravity Live Loads used in the design of the structure meet or exceed the following table (IBC 2012, 1607.1):

OCCUPANCY OR USE:	Uniform (PSF):	Concentrated (LBS): [Note #1]
A. Schools		
1. Classrooms	40	1000
2. Offices and Administration	50	2000
3. First-floor Corridors	100	1000
4. Corridors Above 1st Floor	80	1000
B. Light Storage	125	---
C. Mechanical Rooms	150	---
D. Stairs & Exits	100	300 on A = 4 in²

   Note #1: Unless otherwise noted, the indicated concentrated load has been assumed to be uniformly distributed over an area of 30" x 30".
4. LIVE LOAD REDUCTION: Live load reductions in accordance with IBC 1607.9 have been used with the following exceptions:
   - A. Heavy live loads in excess of 100 PSF have not been reduced except for members supporting 2 or more floors have been reduced by a max. of 20%.
   - B. Live loads for roof members have not been reduced.
5. IMPACT DESIGN: The live loads listed in the table above include allowance for impact. Impact has been considered in the design of the following elements:
   - A. Members supporting elevator loads have been increased by 100% for impact.
6. PARTITION ALLOWANCE: A uniform partition allowance of 20 PSF has been used to account for the load of all floors where partition locations are subject to change, unless the specified live load exceeds 80 PSF.
7. COLLATERAL LOAD: Unless otherwise noted, a minimum uniform collateral load of 10 PSF has been used to account for ductwork, ceilings, sprinklers, lighting, etc. The collateral load is in addition to the weight of mechanical units, larger piping (greater than 4" diameter) and suspended fixtures or equipment that have been specifically accounted for in the design.
8. ROOF LIVE / SNOW LOADS: Gravity Live Loads used in the design of the roof structure meet or exceed the following table:
   - A. Snow Load

Ground Snow Load, p_g	20 PSF
Flat Roof Snow Load, p_f	15.4 PSF
Low-Slope Minimum Roof Snow Load, p_m	22 PSF
Snow Exposure Factor, C_e	1.0
Risk Category (IBC 2012, Table 1604.5)	III
Snow Importance Factor, I_s	1.1
Thermal Factor, C_t	1.0

   - B. Minimum Roof Live Load 20 PSF
   - C. Overhanging Eaves, Canopies & Projections 30 PSF
     1. Drift loads calculated in accordance with Section 7.7, ASCE 7. Specialty Engineers must consider snow drift loads in the design of pre-engineered trusses, frames, skylights, curtain walls, cold-formed metal framing, canopies, etc.
9. HANDRAILS AND GUARDS:
   - A. Handrail Assemblies and Guards: 50 PLF applied in any direction; 200 LB concentrated load applied in any direction (non-concurrent with 50 PLF load).
   - B. Components, Intermediate Rails, Balusters, Fillers, Etc.: 50 LBS horizontally applied normal load on an area not to exceed 1 SF, not superimposed with those of handrail assemblies.
10. LATERAL LOADS: Lateral loads were computed using the following criteria:
   - A. Wind Load

Ultimate Design Wind Speed, V_{ult}	120 MPH
Nominal Design Wind Speed, V_{asd}	93 MPH
Wind Exposure Category	C
Risk Category (IBC 2012, Table 1604.5)	III
Internal Pressure Coefficient, GC_{pi}	+/- 0.18

   - B. Seismic Load

Site Class	D
Risk Category (IBC 2012, Table 1604.5)	III
Seismic Importance Factor, I_e	1.25
Mapped Spectral Response Acceleration Parameter, S_S	0.171g
Mapped Spectral Response Acceleration Parameter, S_1	0.092g
Design Spectral Response Acceleration Parameter, S_{DS}	0.183g
Design Spectral Response Acceleration Parameter, S_{D1}	0.148g
Seismic Design Category, SDC	B
Analysis Procedure	Equivalent Lateral Force
Seismic Force-Resisting System	Steel Systems not Specifically Detailed for Seismic Resistance
Response Modification Coefficient, R	3
Seismic Response Coefficient, C_s	0.0483
Design Base Shear, V	0.0483W
(1) Seismic Force-Resisting System	Ordinary Reinforced Masonry Shear Walls (Building Frame Systems)
Response Modification Coefficient, R	2
Seismic Response Coefficient, C_s	0.0363
Design Base Shear, V	0.0363W

11. SAFETY FACTORS: This structure has been designed with 'Safety Factors' in accordance with accepted principles of structural engineering. The fundamental nature of the 'Safety Factor' is to compensate for uncertainties in the design, fabrication, and erection of structural building components. It is intended that 'Safety Factors' be used such that the load-carrying capacity of the structure does not fall below the design load and that the building will perform under design load without distress. While the use of 'Safety Factors' implies some excess capacity beyond design load, such excess capacity cannot be adequately predicted and SHALL NOT BE RELIED UPON.

AGGREGATE PIER SYSTEM

1. Soil supporting foundations shall be improved using aggregate piers to provide soil characteristics as follows:

   Allowable Bearing Capacity (Assumed): 3,000 PSF minimum
   Estimated Total Long-Term Settlement: ~~1.0 inch maximum~~
   Estimated Differential Settlement: 0.50 inch maximum (1)

   Soil supporting interior slabs on grade shall be improved using a grid of aggregate piers, with spacing as determined by the Aggregate Pier Contractor's delegated designer to support a design live load of 150 PSF.
2. The Aggregate Piers shall be constructed by augering a 2-foot to 3-foot diameter cavity to the design depth and compacting thin lifts of aggregate using the specially designed tamper head and high-energy densification equipment to create the compacted aggregate piers.
3. The General Contractor shall coordinate all foundation and slab bearing elevations and site grading requirements with the aggregate pier installer prior to commencement of aggregate pier installation.
4. The as-built center of each pier shall be within six inches of the location indicated on the reviewed shop drawing/delegated design submittal. The top of each pier shall be not more than 1 inch above and not more than 3" below the design bearing elevation. Piers installed outside of these tolerances and deemed not acceptable by the Structural Engineer shall be rebuilt at no additional expense to the Owner.
5. Aggregate Piers installed beyond the maximum allowable tolerances shall be abandoned and replaced with new piers, unless the Engineer approves other remedial measures.
6. The General Contractor shall engage an Independent Testing Agency to continuously monitor the installation and required testing of all Aggregate Piers.
7. The Aggregate Pier Installer shall provide, on a daily basis, complete and accurate records of all aggregate pier installations to the General Contractor. The records shall indicate the pier location, length, volume of aggregate used or number of lifts, densification forces during installation, and final elevations and depths of the base and top of piers. The record shall also indicate the type and size of the equipment used and the type of aggregate used. The Installer shall immediately report to the General Contractor, the Structural Engineer and Independent Testing Agency any unusual conditions encountered during installation.
8. The General Contractor shall coordinate all excavations made subsequent to the aggregate pier installation so that excavations do not encroach on the piers. Protection of the completed aggregate pier elements is the responsibility of the General Contractor. In the event that utility excavations are required in close proximity to the installed aggregate piers, the General Contractor shall immediately contact the Aggregate Pier delegated design professional to develop construction solutions to minimize the impact on the installed piers.

CAST IN PLACE CONCRETE

1. Details of fabrication of reinforcement, handling and placing of the concrete, construction of forms and placement of reinforcement not otherwise covered by the Plans and Specifications, shall comply with the ACI Code requirements of the latest revised date.
2. Cold weather concreting shall be in accordance with ACI 306. Cold weather is defined as a period when for more than 3 successive days the average daily air temperature drops below 40F and stays below 50F. The Contractor shall maintain a copy of this publication on site.
3. Hot weather concreting shall be in accordance with ACI 305. Hot weather is defined as any combination of the following conditions that tends to impair the quality of the freshly mixed or hardened concrete: high ambient temperature, high concrete temperature, low relative humidity, wind speed, or solar radiation. The Contractor shall maintain a copy of this publication on site.
4. A certified Testing Agency shall be retained to perform industry standard testing including measurement of slump, air temperature, concrete cylinder testing, etc. to ensure conformance with the Contract Documents. Submit reports to the Architect/Engineer.
5. FINISHING OF SLABS: After screeding, bull floating and floating operations have been completed, apply final finish as indicated below, and as described in the Division 3 Cast In Place Concrete Specification of the Project Manual.

A. Floor Slabs	Hard Trowel Finish, unless noted otherwise
B. Ramps, Stairs & Sidewalks	Broom Finish
C. Surfaces to Recieve Topping Slabs	None - Float Finish
D. Surfaces to recieve thick-set mortar beds or similar cementitious materials	None - Float Finish

   Sample Finishes: See the Specifications for sample and mockup requirements, if any. Coordinate floor finishes with the architectural Finish Plan.

   Floor Tolerances: See the Specifications for specified Ff and Fl tolerances. Ff and Fl testing shall be performed by the Testing Agency in accordance with ASTM E1155. Results, including acceptance or rejection of the work will be provided to the Contractor and the Architect/Engineer within 48 hours after data collection. Remedies for out-of-tolerance work shall be in accordance with the Specifications. When approved by the SER, measurement of the gaps beneath a 10-foot straight edge may be used in lieu of Ff and Fl testing. Approval must be obtained in writing prior to the beginning of concrete operations.
6. FINISHING OF FORMED SURFACES: Finish formed surfaces as indicated below, and as described in the Division 3 Cast In Place Concrete Specification of the Project Manual.

A. Sides of Footings & Pile Caps	Rough Form Finish
B. Sides of Grade Beams	Rough Form Finish
C. Surfaces not exposed to public view	Rough Form Finish
D. Surfaces exposed to public view	Smooth Form Finish

7. The Contractor shall consult with the Engineer before starting concrete work to establish a satisfactory placing schedule and to determine the location of construction joints so as to minimize the effects of shrinkage in the floor system.
8. Sawn or tooled control/contraction joints shall be provided in all slabs on grade. For a framed structure, joints shall be located on all column lines. Provide intermediate joints spaced at a maximum of 36 times the nominal slab thickness. Exterior slabs, and interior slabs without columns, shall also have a maximum joint spacing of 36 times the nominal slab thickness. Lay out joints so that maximum aspect ratio (ratio of long side to short side) does not exceed 1.5.
9. Where vinyl composition tile, vinyl sheet goods, thin-set epoxy terrazzo, or other similar material is the specified finish floor material, the Contractor shall coordinate the locations of control/contraction and construction joints with the Finish Flooring Contractor. Submit a dimensioned plan showing joint locations and proposed sequence of floor pours.
10. Unless specifically noted on the Plans, do not provide sawn control joints in composite and non-composite supported slabs on metal deck or in supported cast-in-place concrete slabs.
11. Joints in slabs to receive a finish floor may remain unfilled, unless required by the Finish Flooring Contractor. All exposed slabs shall be filled with sealant specified in Division 7, or as follows: All slabs in industrial, manufacturing, or warehouse applications subject to wheeled traffic shall be filled with specified epoxy resin sealant, all other joints shall be filled with specified elastometric sealant. Defer filling of joints as long as possible, preferably a minimum of 4 to 6 weeks after the slab has been cured. Prior to filling, remove all debris from the slab joints, the fill in accordance with the manufacturer's recommendations.
12. Refer to the Architectural Drawings for locations and details of reveals (1" maximum depth) in exposed walls.
13. Refer to the Architectural Drawings for chamfer requirements for corners of concrete. Where not indicated, provide 3/4" chamfers on exposed corners of concrete, except those abutting masonry.
14. Refer to the Architectural Drawings for exact locations and dimensions of recessed slabs, ramps, stairs, thickened slabs, etc. Slope slabs to drains where shown on the Architectural and Plumbing Drawings.
15. Sidewalks, stoops, aprons, drives, exterior retaining walls, and other site concrete are not indicated on the Structural Drawings. Refer to the Site/Civil and Architectural Drawings for locations, dimensions, elevations, jointing, and finishing details.

CONCRETE MIX CLASSES

FOOTINGS	
COMPRESSIVE STRENGTH	4000 PSI
MAXIMUM WATER/CEMENT RATIO	0.58
AIR CONTENT	0 - 3 PERCENT
WATER-REDUCING ADMIXTURE	OPTIONAL
SLUMP	4" +/- 1"
FOUNDATION WALLS, RETAINING WALLS, PIERS, GRADE BEAMS & TIE BEAMS	
COMPRESSIVE STRENGTH	4000 PSI
MAXIMUM WATER/CEMENT RATIO	0.50
AIR CONTENT	0 - 3 PERCENT
WATER-REDUCING ADMIXTURE	REQUIRED
SLUMP	4" +/- 1"
INTERIOR CONCRETE SLABS ON GRADE & SUSPENDED SLABS	
COMPRESSIVE STRENGTH	4000 PSI
MINIMUM CEMENTITIOUS MATERIAL CONTENT	517 LB/CU YD
AIR CONTENT	0 - 3 PERCENT
SLUMP	4" +/- 1"
WATER-REDUCING ADMIXTURE	REQUIRED
E5 INTERNAL CURE ADMIXTURE	REQUIRED
EXTERIOR CONCRETE SUBJECT TO FREEZE-THAW	
COMPRESSIVE STRENGTH	4000 PSI
MINIMUM CEMENTITIOUS MATERIAL CONTENT	564 LB/CU YD
AIR CONTENT	6 +/- 1 PERCENT
WATER-REDUCING ADMIXTURE	REQUIRED
SLUMP	5" +/- 1"
COARSE AGGREGATE	CRUSHED STONE
INCREASE COMPRESSIVE STRENGTH TO 4500 PSI FOR EXTERIOR REINFORCED CONCRETE SUBJECT TO THE USE OF DEICERS.	
LEAN CONCRETE FILL	
COMPRESSIVE STRENGTH	2000 PSI
MAXIMUM WATER/CEMENT RATIO	0.65
AIR CONTENT	OPTIONAL
WATER-REDUCING ADMIXTURE	OPTIONAL
SLUMP	4" +/- 1"
STAIR PAN FILL	
COMPRESSIVE STRENGTH	4000 PSI
MINIMUM CEMENTITIOUS MATERIAL CONTENT	564 LB/CU YD
AIR CONTENT	0 - 3 PERCENT
WATER-REDUCING ADMIXTURE	REQUIRED
SLUMP	4" +/- 1"
CLASS 'C' FLYASH	MIN. 10% / MAX 20%

1. SLUMP:
   MIXES CONTAINING TYPE A WRDA 5" MAXIMUM
   MIXES CONTAINING MID-RANGE WRDA 5 - 6½"
   MIXES CONTAINING HIGH-RANGE WRDA 5 - 8"
2. SPECIFIED MINIMUM CEMENTITIOUS MATERIAL CONTENTS ARE BASED ON THE USE OF WATER REDUCING ADMIXTURES.
3. INCLUDE AN AIR-ENTRAINING ADMIXTURE FOR ALL CONCRETE EXPOSED TO FREEZING AND THAWING IN SERVICE AND FOR ALL CONCRETE EXPOSED TO COLD WEATHER DURING CONSTRUCTION, BEFORE ATTAINING ITS SPECIFIED DESIGN COMPRESSIVE STRENGTH. REF. ACI 306 FOR DEFINITION OF COLD WEATHER.
4. CLASS C FLY ASH MAY BE USED AS A CEMENT SUBSTITUTE WITH A MAXIMUM 20% SUBSTITUTION RATE ON A POUND-PER-POUND BASIS.
5. PROPORTION CONCRETE MIXES TO PROVIDE WORKABILITY AND CONSISTENCY TO PERMIT CONCRETE TO BE WORKED READILY INTO THE CORNERS AND ANGLES OF THE FORMS AND AROUND REINFORCEMENT BY THE METHODS OF PLACEMENT AND CONSOLIDATION TO BE EMPLOYED, WITHOUT SEGREGATION AND EXCESSIVE BLEEDING.
6. ADJUSTMENTS TO THE APPROVED MIX DESIGNS MAY BE REQUESTED BY THE CONTRACTOR WHEN JOB CONDITIONS, WEATHER, TEST RESULTS, OR OTHER CIRCUMSTANCES WARRANT. THESE REVISED MIX DESIGNS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO USE.

CONCRETE REINFORCING

1. Reinforcement, other than cold drawn wire for spirals and welded wire fabric, shall have deformed surfaces in accordance with ASTM A305.
2. Reinforcing steel shall conform to ASTM A615, Grade 60, unless noted.
3. Welded wire fabric shall conform to ASTM A1064, unless noted.
4. Where hooks are indicated, provide standard hooks per ACI and CRSI for all bars unless other hook dimensions are shown on the plans or details.
5. Reinforcement in footings, walls and beams shall be continuous. Lap bars a minimum of 36 diameters, unless noted otherwise.
6. Reinforcement shall be supported and secured against displacement in accordance with the Concrete Reinforcing Steel Institute's "Manual of Standard Practice."
7. Details of reinforcing steel fabrication and placement shall conform to ACI 315 'Details and Detailing of Concrete Reinforcement' and ACI 315R 'Manual of Engineering and Placing Drawings for Reinforced Concrete Structures', unless otherwise indicated.
8. Spread reinforcing steel around small openings and sleeves in slabs and walls, where possible, and where bar spacing will not exceed 1.5 times the normal spacing. Discontinue bars at all large openings where necessary, and provide an area or reinforcement, equal to the interrupted reinforcement, in full length bars, distributing one-half each side of the opening. Where shrinkage and temperature reinforcement is interrupted, add (2) #5 x *opening dimension +4'-0"* on each side of the opening. Provide #5 x 4'-0" diagonal bars in both faces, at each corner of openings larger than 12" in any direction.
9. Provide standees for the support of top reinforcement for footings, pile caps, and mat foundations.
10. Provide individual high chairs, with support bars, as required for the support of top reinforcement for supported slabs. Do NOT provide standees.
11. Provide snap-on plastic space wheels to maintain required concrete cover for vertical wall reinforcement.
12. Where walls sit on column footings, provide dowels for the wall. Dowels shall be the same size and spacing as the vertical wall reinforcement, unless noted otherwise, with lab splices as shown on the application sections. Install dowels in the footing forms before concrete is placed. Do NOT stick dowels into footings after concrete is placed.
13. Field bending of reinforcing steel is prohibited, unless noted on the drawings.
14. Minimum concrete cover over reinforcing steel shall be as follows, unless noted otherwise on plan, section or note:

MINIMUM COVER FOR REINFORCEMENT

	MINIMUM COVER
SLABS AND JOISTS	
TOP & BOTTOM BARS FOR DRY CONDITIONS:	
#11 BARS & SMALLER	3/4"
#14 & #18 BARS	1 1/2"
FORMED CONCRETE SURFACES EXPOSED TO EARTH, WATER, OR WEATHER, AND OVER OR IN CONTACT WITH SEWAGE AND FOR BOTTOMS BEARING ON WORK MAT, OR SLABS SUPPORTING EARTH COVER:	
#5 BARS & SMALLER	1 1/2"
#6 THROUGH #18 BARS	2"
BEAMS & COLUMNS, FORMED	
FOR DRY CONDITIONS:	
STIRRUPS, SPIRALS & TIES	1 1/2"
PRINCIPAL REINFORCEMENT	2"
EXPOSED TO EARTH, WATER, SEWAGE, OR WEATHER:	
STIRRUPS & TIES	2"
PRINCIPAL REINFORCEMENT	2 1/2"
WALLS	
FOR DRY CONDITIONS:	
#11 BARS & SMALLER	3/4"
#14 & #18 BARS	1 1/2"
FORMED CONCRETE SURFACES EXPOSED TO EARTH, WATER, SEWAGE, WEATHER, OR IN CONTACT WITH GROUND	2"
FOOTINGS & BASE SLABS	
AT FORMED SURFACES & BOTTOMS BEARING ON CONCRETE WORK MAT	2"
AT UNFORMED SURFACES & BOTTOMS IN CONTACT WITH EARTH	3"
TOP OF FOOTINGS	SAME AS SLABS
OVER TOP OF PILES	2"

STRUCTURAL STEEL NOTES

1. Structural steel construction shall conform to the American Institute of Steel Construction "Specification for Structural Steel Bulidings".
2. All structural wide flange members and channels shall be ASTM A992, Fy = 50 ksi.
3. All plates, bars, angles, and rods shall be ASTM A572, Grade 50 unless noted.
4. All rectangular, square, and round structural tube members shall be ASTM A500, Grade C, Fy = 50 ksi unless noted.
5. Details for design, fabrication and erection of all structural steel shall be in accordance with the latest AISC Standards, unless otherwise noted or specified.
6. Provide temporary erection guying and bracing as required.
7. Unless otherwise shown or noted on the Drawings, provide 8" minimum bearing each end for all loose lintels and beams.
8. For loose lintels, masonry shelf angles and other such items generally not shown on the Structural Drawings, refer to the Architectural Drawings. See general notes on lintels this sheet for sizes, reinforcing, etc.
9. Steel columns below grade shall be encased in a minimum of 4" concrete or painted with 2 coats of asphaltum paint, unless otherwise shown.
10. Fabricate simple span beams not specifically noted to receive camber so that after erection, any minor camber due to rolling or shop assembly be upward.
11. Refer to the Division 5 Structural Steel Specification of the Project Manual for structural steel surface preparations and prime painting requirements.
12. The Erector shall shim between parallel roof beams and joists with differential mill and induced cambers for level deck bearing.
13. Provide cap plates/end plates to close off exposed, open ends of all tubular members, unless noted. Seal weld with partial penetration square groove welds for watertight condition.

STEEL JOIST NOTES

1. All steel joists shall be designed, fabricated and erected in accordance with the SJI Standard Specifications.
2. Joist bridging (if shown) is schematically indicated. Provide all bridging necessary to conform to SJI Specifications.
3. The ends of all bridging lines terminating at walls or beams shall be anchored to the wall or beam.
4. Joist bridging and connections shall be completely installed prior to placing any construction loads on the joists. Construction loading shall not exceed the joist design load.
5. All roof joists shall be capable of resisting the net uplift as noted on the Structural Drawings (min. 15 psf net). Provide an additional row of continuous horizontal bottom chord bridging at the first panel point location at each end of all roof joists.
6. Special joists (SP) shall be designed for the load designations specified on the Structural Drawings. Designs shall properly account for the distribution of concentrated loads, live loads and for the effect of openings. Designs are to meet the requirements of SJI.
7. Joists shall meet the following deflection criteria per SJI. Maximum live load deflection shall not exceed:
   - A) Roofs: L/360
   - B) Floors: L/360
8. The Joist Manufacturer shall submit calculations for all special joists to the SER for record purposes, prior to fabrication. These calculations shall bear the seal and signature of a Professional Engineer registered in the State of Indiana.
9. Joists on column centerlines shall have extended bottom chord connections for erection stability, unless otherwise noted. Do not connect bottom chord extensions, unless otherwise noted or shown.
10. Joists on or near column centerlines shall have field-bolted connections for erection stability, unless otherwise noted.
11. The Joist Manufacturer shall coordinate with the Structural Steel Fabricator for the design of all connections to supporting columns, beams, bearing seats, etc. prior to submittal of shop drawings.
12. All steel joists shall be furnished with standard SJI camber, unless noted otherwise.
13. All items suspended from joists such as catwalks, basketball goals, operable partitions, etc. should be installed after all dead loads of roofing, flooring, ceilings, etc. are installed.
14. All joists shall be shop primed in accordance with SJI requirements, unless noted otherwise. Color to match structural steel primer, unless approved in writing by the SER.
15. Provide sloped bearing ends where joist slope exceeds 1/4" per foot.
16. Do not field cut or alter joists without the written approval of the Joist Manufacturer.

STEEL STAIRS

1. Refer to the Design Criteria notes for live load and handrail requirements.
2. All stair designs shall be provided by the Stair Manufacturer/Fabricator's SSE and shall be stamped by a Professional Engineer registered in the State of Indiana. Stair designs shall be in accordance with all applicable code provisions of the IBC.
3. The Stair Manufacturer/Fabricator's SSE shall provide the SER with drawings showing location, direction and magnitudes of all stair load reactions on the building structure for approval, prior to fabrication.
4. The Stair Manufacturer/Fabricator shall coordinate the transition between the supported structural floor slab and the stair structure with the Structural Steel Fabricator, prior to fabrication.
5. Refer to the Architectural Drawings for stair width, rise, run, tread and riser geometry, handrail and guardrail design, shaft wall construction, etc.

STEEL CONNECTION NOTES

1. Typical beam-to-beam and beam-to-column connections shall be bearing type using A325 bolts, unless noted otherwise.
2. Shop connections, unless otherwise shown, may be either bolted or welded. All field connections shall be bolted unless otherwise shown on the Structural Drawings.
3. Connections shall be designed by the Steel Fabricator to support the reactions shown on the framing plan(s). Simple span connections without reactions listed on the Structural Drawings shall be designed by the Steel Fabricator's SSE in accordance with Table 3-6 of the AISC "Manual of Steel Construction, 14th Edition". For composite beams where reactions are not indicated, design connections for 75% of the Maximum Total Uniform Load ASD value for the applicable beam size and span given in Table 3-6. For non-composite beams, design connections for 50% of the tabulated ASD value. The minimum shear connection design load shall be 15 kips.
4. Submit calculations for connections not detailed on the Structural Drawings and not covered by the AISC Tables, including but not limited to:
   - A. Moment Connections.
   - B. Bracing Connections including Collectors and Drag Struts
   - C. Skewed Shear Connections.
   - D. Girder and Truss Splices.
   - E. Truss-to-Column and Truss-to-Truss Connections.
   - F. Truss Web-to-Chord and Web-to-Gusset Connections.
5. All beam-to-beam connections shall be double angle, unless shown or noted otherwise.
6. All beam-to-column connections shall be at the column centerline, unless shown or noted otherwise. Shear tab connections to tube columns are permitted unless otherwise noted or detailed.
7. Typical bearing-type beam-to-beam, and beam-to-column field-bolted connections may be tightened to the snug-tight condition, unless otherwise shown or noted.
8. Bolted connections in moment frames, bracing connections, hangers and stub columns, crane connections, and those designated PT (pretensioned) on the Drawings shall be pretensioned joints utilizing tension-control (TC) bolts or direct tension indicators. Holes for bolts in pretensioned joints shall be 1/16" larger than the bolt diameter. All pretensioned joints must be inspected by the Testing Agency.
9. Connect bracing members for two components of stress unless otherwise approved by the SER. Provide a minimum 2-bolt or welded field connection.
10. Locate centerlines of all vertical bracing members on column centerlines in vertical plane and on column and beam centerlines in horizontal plane, unless otherwise shown on the Structural Drawings.
11. All welding shall be in conformance with AWS D1.1, using E70XX electrodes, unless shown or noted otherwise. Welding, both shop and field, shall be performed by welders certified for the weld types and positions involved according to the current edition of AWS D1.1. Perform all AESS welds with care to provide a clean, uniform appearance.
12. Backup bars required for welded connections shall be continuous.
13. Holes in steel shall be drilled or punched. All slotted holes shall be provided with smooth edges. Burning of holes in structural steel shall not be allowed without approval of the SER.
14. The minimum thickness of all connection material shall be 5/16", unless noted.
15. Continuous bent plate and angle slab closures, roof edges, diaphragm chords, etc. around perimeter of the floor and roof, as well as around openings shall be welded with a minimum 1/4" fillet weld x 3" long at 12" o.c., top & bottom, unless noted otherwise. Butt weld joints in continuous diaphragm chords for continuity. For continuous perimeter angles and bent plates perpendicular to and connected to the top chords of joists, provide a minimum 3" of 1/4" weld at each joist. Continuous angle and bent plate closures may be shop-applied to the supporting structural members only when requested and approved in writing by the SER.
16. A qualified independent Testing Agency shall be retained to perform inspection and testing of structural steel field weldments as follows:

WELD INSPECTION SCHEDULE

WELD TYPE	VT	MT	UT	PT	RT	COMMENTS
FILLET (SINGLE PASS)	25%	--	--	--	--	ROOT PASS AND FINISHED WELD
FILLET (MULTIPLE PASS)	50%	25%	--	--	--	
FLARE BEVEL/ FLARE V	25%	--	--	--	--	
GROOVE (PARTIAL PENETRATION)	100%	--	100%	--	--	REFERENCE NOTE 'E' BELOW
GROOVE (FULL PENETRATION)	100%	--	100%	--	--	ALL FULL PENETRATION WELDS

- A) Test procedures:
  VT = Visual Test (inspection)
  MT = Magnetic Particle Test: ASTM E109, cracks or incomplete fusion or penetration not acceptable.
  UT = Ultrasonic Test: ASTM E164.
  PT = Penetrant Test: ASTM E165.
  RT = Radiographic Test: ASTM E94 and ASTM E142, min. quality level 2-21.
- B) Acceptance standards in AWS D1.1 shall be followed for each test procedure.
- C) Test procedures may be substituted to meet feasibility requirements of test based upon weld geometry or other factors with the approval of the SER.
- D) Samples shall occur at random locations; additional tests may be required at locations noted on the Drawings.
- E) Groove welds include square, bevel, V, U, and J grooves including single and double pass types.
- F) Partial penetration square groove welds at end seal plates of tubular members do not require inspection.
- G) Weld Procedure Specifications (WPS) shall be produced and maintained in accordance with AWS D1.1. The independent Testing Agency shall have access to all WPS's during the course of testing and inspection.
- H) For highly-restrained welded joints, especially in thick plates and/or heavy structural shapes, detail the welds so that shrinkage occurs as much as possible in the direction the steel was rolled. Refer to the AISC Manual for preferred welded-joint arrangements that reduce the possibility for lamellar tearing. Members scheduled to receive highly-restrained connections shall be tested by the independent Testing Agency by Ultrasonic Testing prior to commencing welding.
- I) In addition to inspection requirements for fillet welds in Table above, 100% of field welding of diagonal bracing members to gusset plates shall be visually inspected (VT).

STEEL DECK NOTES

1. All steel deck material, fabrication and installation shall conform to the Steel Deck Institute "SDI SPECIFICATIONS AND COMMENTARY" and "CODE OF RECOMMENDED STANDARD PRACTICE," current edition, unless noted otherwise.
2. Provide members for deck support at all deck span changes. Provide L3x3x3/16 deck support at all columns where required.
3. All deck shall be provided in a minimum of 3-span lengths where possible.
4. All welding of steel deck shall be in conformance with AWS Specification D1.3. Provide welding washers for all floor decks less than 22 gauge in thickness. All roof decks shall be fastened with mechanical fasteners. Submit fastener design data to the SER for review.
5. Mechanical fasteners may be used in lieu of welding floor decks, provided that fasteners meet or exceed the strength of specified welds. Submit fastener design data to the SER for review.
6. Substitution of fiber secondary reinforcement for welded wire fabric on supported slabs is prohibited.
7. Do not suspend any items, such as ductwork, mechanical and electrical fixtures, ceilings, etc. from steel deck.
8. Roof deck sidelaps shall be attached at ends of cantilevers and at a maximum spacing of 12" o.c. from cantilevered deck ends. The roof deck must be completely fastened to the supports and at sidelaps before any load is applied to the cantilever.
9. Submit shop drawings for review of general conformance to the design concept in accordance with the Specifications in the Project Manual. Erection drawings shall show type of deck, shop finish, accessories, method of attachment, edge details, deck openings and reinforcement, and sequence of installation.
10. Installation holes shall be sealed with a closure plate 2 gauges thicker than deck and mechanically fastened to the deck. Steel deck holes visible from below will be rejected. Deck units that are bent, warped, or damaged in any way which would impair the strength and appearance of the deck shall be removed from the site.
11. Where gauge metal pourstops are indicated, supply pourstops designed to meet or exceed the gauges listed in the SDI Pourstop Selection Table (min. 18 ga.) as required for slab depth, concrete weight, and cantilever distance, unless noted otherwise.
12. The Erector shall shim between parallel roof beams and joists with differential mill and induced cambers for level deck bearing.

LINTEL SCHEDULE

1. Where lintels are not specifically shown or noted on the Structural or Architectural Drawings, provide the following lintels over all openings and recesses in both interior and exterior non-load-bearing walls.
   - A) Brick:

Masonry Opening	Angle Size
Up to 5'-0"	L4x4x5/16
5'-1" to 7'-0"	L6x4x5/16
7'-1" to 12'-0"	L7x4x3/8

     All angles are LLV (long leg vertical) unless noted otherwise. Provide 1" bearing length per foot of span each end with minimum 8".
   - B) Block: For openings up to 8'-0" long exposed in the finished room, use lintel block filled with grout. Grout all exposed joints and reinforce as follows:
     1. For 6" thick block: 1 - #5 bar.
     2. For 8" thick block: 2 - #5 bars.
     3. For 10" thick block: 2 - #6 bars.
     4. For 12" thick block: 2 - #6 bars.
   - C) Block: For openings between 8'-1" & 12'-0" long exposed in the finished room, use lintel block filled with grout. Grout all exposed joints and reinforce per the "Long Masonry Lintel Detail" on the Typical Detail Drawings.
   - D) Shore all block and steel angle lintels over 8'-0" in length until masonry has attained its specified design strength.

COLD-FORMED (LIGHT GAUGE) METAL FRAMING NOTES

1. All cold-formed steel framing members, their design, fabrication, and erection shall conform to the "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" of the latest edition of the AISI.
2. All framing members shall be formed from steel conforming to ASTM A653, with a minimum yield strength as follows:
   - A. 12, 14 & 16 gauge members: Fy = 50ksi
   - B. 18, 20 gauge members: Fy = 36ksi
3. All framing members shall be galvanized with a G60 coating meeting the requirements of ASTM A653, unless otherwise indicated.
4. Members shall be the Manufacturer's standard 'C'-Shaped studs/joists of the size, flange width, and gauge indicated. All members shall have a minimum flange lip return of 1/2" and satisfy the minimum properties in accordance with the Steel Stud Manufacturers Association (SSMA).
5. The gauge of all tracks shall match the gauge of the associated stud or joist, unless otherwise noted.
6. All welding shall be in accordance with AWS Specification D1.3. No welding of members less than 14 gauge in thickness is permitted without the approval of the SER. All welding shall be performed by certified welders. All welds shall be touched up with zinc rich paint in accordance with ASTM A780.
7. Provide bridging for all load-bearing studs at a maximum spacing of 48" o.c.
8. Provide bridging for all non-load-bearing curtain wall studs at a maximum spacing of 54" o.c. Locate one row of bridging within 18" of the top track when a single deep-leg deflection track is utilized.
9. Provide bridging for joists and rafters at midspan and at a maximum spacing of 6'-0" o.c., unless noted otherwise. All bridging shall be installed prior to the application of any loading. Connect bridging to each member by clip angles, or other approved method per the Manufacturer's requirements.
10. Provide web stiffeners at joist and rafter bearings in accordance with the Manufacturer's requirements.
11. All axially loaded studs shall have full bearing against the track web, prior to stud and track alignment. Splices in axially loaded studs are not permitted.
12. Provide the Manufacturer's standard track, clip angles, bracing, reinforcement, fasteners, and accessories as recommended by the Manufacturer for the application indicated and as needed to provide a complete framing system. Unless otherwise indicated, install the metal framing system in accordance with the Manufacturer's shop drawings, written instructions and recommendations.
13. Install supplementary framing, blocking, and bracing in metal framing system wherever walls or partitions are indicated to support fixtures, equipment, services, casework, heavy trim and furnishings, and similar work requiring attachment to the wall or partition. Where type of supplementary support is not otherwise indicated, comply with the stud manufacturer's recommendations and industry standards in each case, considering weight or loading resulting from the item supported.
14. All field-cutting of studs must be done by sawing or shearing. Torch cutting of cold-formed members is not allowed.
15. No notching or coping of studs is allowed, unless explicitly shown on the design or shop drawings. All field-cut holes must be reinforced.
16. The Framing Contractor is to ensure punch out alignment when assembling lateral bracing/bridging and field-cutting studs to length. Lateral bracing/bridging must be installed at the time the wall is erected.
17. Temporary bracing shall be provided and remain in place until work is completely stabilized.
18. Use a minimum of three studs at the corners of all exterior walls.
19. Use a minimum of three studs at the corners and intersections of all load-bearing walls.
20. All headers and built-up beams must be constructed of UNPUNCHED material only. Install insulation in built-up exterior framing members, such as headers, sills, boxed joists, and multiple stud jambs at openings, that are inaccessible upon completion of framing work.
21. Shop Drawings: Show layout, spacings, sizes, thicknesses, and types of cold-formed metal framing; show fastening and anchorage details, including mechanical fasteners. Show reinforcing channels, opening framing, supplemental framing, strapping, bracing, bridging, splices, accessories, connection details, and attachment to adjoining work.
22. For cold-formed metal framing indicated to comply with design loads, include structural analysis data signed and sealed by the qualified professional engineer (SSE) responsible for their preparation.
23. Structural Performance: Provide cold-formed metal framing capable of withstanding design loads within limits and under conditions indicated.
   - A. Design Loads: Reference the Design Criteria Notes.
   - B. Deflection Limits: Design framing systems to withstand the design loads without deflections greater than the following:
     1. Wall Framing: Horizontal deflection of 1/240 of the wall height for walls with flexible finishes, e.g. metal siding, wood siding, EIFS, etc.
     2. Wall Framing: Horizontal deflection of 1/360 of the wall height for walls with cementitious finishes, e.g. cement plaster.
     3. Wall Framing: Horizontal deflection of 1/600 of the wall height for walls with masonry veneer finishes.
     4. Floor Joist Framing: Vertical deflection of 1/480 of the span under live load. Limit deflection under total load (dead + live) to 1/360 of the span.
     5. Roof Framing: Vertical deflection of 1/360 of the span under live/snow load. Limit deflection under total load (dead + live) to 1/240 of the span.
24. Design framing systems to provide for movement of framing members without damage or overstressing, sheathing failure, undue strain on fasteners and anchors, or other detrimental effects when subject to an ambient temperature change of not less than 120 degrees F.
25. Design framing system to maintain clearances at openings, to allow for construction tolerances, and to accommodate live and/or snow load deflection of primary building structure as follows: Upward and downward movement of 3/4 inch.
26. Design exterior non load-bearing curtain wall framing to accommodate horizontal deflection without regard for contribution or sheathing materials.

SPECIALTY STRUCTURAL ENGINEERING (SSE)

1. A Specialty Structurally Engineer (SSE) is defined as a Professional Engineer licensed in the State of Indiana, not the Structural Engineer of Record (SER), who performs Structural Engineering functions necessary for the structure to be completed and who has shown experience and/or training in the specific speciality.
2. It is the SSE's responsibility to review the Construction Drawings and Specifications to determine the appropriate scope of engineering.
3. It is the intent of the Drawings and Specifications to provide sufficient information for the SSE to perform his design and analysis. If the SSE determines there are details, features, or unanticipated project limits which conflict with the engineering requirements as described in the project documents, the SSE shall in a timely manner contact the SER for resolution of conflicts.
4. The SSE shall forward documents to the SER for review. Such documents shall bear the stamp of the SSE and include:
   - A. Drawings introducing engineering input, such as defining the configuration or structural capacity of structural components and/or their assembly into structural systems.
   - B. Calculations.
   - C. Computer printouts which are an acceptable substitute for manual calculations provided they are accompanied by sufficient design assumptions and identified input and output information to permit their proper evaluation. Such information shall bear the stamp of the SSE as an indication that said SSE has accepted responsibility for the results.
5. Contractors are referred to the specific technical specification sections and the structural drawings for those elements requiring Specialty Structural Engineering. Examples of components requiring Specialty Structural Engineering include, but are not limited to the following:
   - A. Specialty Foundation Systems
   - B. Temporary and Permanent Retention Systems, if required.
   - C. Shoring and Bracing Systems, if required.
   - D. Structural Steel Connections.
   - E. Steel Joist Systems.
   - F. Steel Stairs.
   - G. Handrails and Guards.
   - H. Cold-Formed Steel Framing.
   - I. Curtain Wall Systems.
6. When modifications are proposed to elements under the design and certification of the SSE, written authorization by the SSE must be obtained and submitted to the SER for review prior to performing the proposed modification.

REINFORCED MASONRY NOTES

1. All construction of reinforced masonry walls to be in accordance with the Building Code Requirements For Concrete Masonry Structures (ACI 530 / TMS 402) and Commentary.
   - A. f'_m = 2000 PSI
   - B. Maximum height of masonry lift: 5'-0"
   - C. Maximum height of grout lift: 5'-0"
   - D. See the Specifications for additional masonry wall information.
2. CONCRETE BLOCK: Minimum compressive test strength on the net cross-sectional area: 2800 PSI.
3. MORTAR: Type S required.
4. GROUT: ASTM C476, 2500 PSI with a slump of 8" min. and 10" max.
5. REINFORCING: f_y = 60,000 PSI with a min. lap of 48 bar diameters.
6. WEIGHT CLASSIFICATION: Use Normal Weight CMU below grade. Use Lightweight CMU above grade, unless otherwise noted or approved.

(1) EXISTING CONSTRUCTION

1. The contractor shall field verify the dimensions, elevations, etc. necessary for the proper construction and alignment of the new portions of the work to the existing work. The Contractor shall make all necessary measurements for fabrication and erection of the structural members. Any discrepancy shall be immediately brought to the attention of the Engineer of Record.
2. Before proceeding with any work within the existing facility, the Contractor shall familiarize himself with existing structural and other conditions. Any shoring shown or noted on the Plans is a partial and schematic representation of that required. It shall be the Contractor's responsibility to provide all necessary bracing, shoring, and other safeguards to maintain all parts of the work in a safe condition during the progress of demolition and construction, and to protect from damage those portions of the existing work which are to remain. Shoring shall remain in place until the structural work is complete, has been inspected by the Testing Agency, and is certified to be in substantial compliance with the Contract Documents.
3. When required by the Specifications or by Plan Note, the Contractor shall submit for the Engineer of Record's review, a "Proposed Shoring Plan," including, but not limited to: plans, sections, details, notes, description of proposed sequence of work, and calculations prepared by, or under the supervision of a Professional Engineer (Specialty Engineer). The Specialty Engineer shall be registered in the State where the project is located.
4. Welding to and within an existing facility presents potential hazards including:
   - A. Fire Hazard - Due to the existing construction and building contents.
   - B. Structural Liquefaction - Due to welding across the full section of the structural members.

   Recommendations to prevent these hazards include:
   - A. Fire Hazard - Protect existing combustibles prior to welding. Keep a separate watchman and several fire extinguishers on hand.
   - B. Structural Liquefaction - weld in small increments. Allow welds to harden before continuing to the next increment.
   - C. Do not leave the site until satisfied that no fire hazard exists.
   - D. Preference should be given to the use of beam clamps, mechanical fasteners, or bolted connections in lieu of welding within existing facilities, whenever possible. Do not field-drill existing structural members without the written permission of the Engineer of Record.

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Lynch, Harrison & Brumleve, Inc.

PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 S Marr Rd
Columbus, Indiana 47201

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, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

#	Description	Date
1	Addendum #3	11/10/25

ISSUE DATE	DRAWN BY	CHECKED BY
10/24/25	NMA/JRO	MDL

DRAWING TITLE:
GENERAL STRUCTURAL NOTES

CERTIFIED BY:
MARK D. LAVIER
REGISTERED
PE19400114
STATE OF INDIANA
PROFESSIONAL ENGINEER

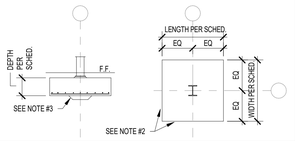
DRAWING NUMBER
S001

PROJECT NUMBER
2025022

COLUMN FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE WIDTH x LENGTH x DEPTH	REINFORCING (EACH WAY, U.N.O.)
F3.0	3'-0" x 3'-0" x 1'-2"	(4) #5 x 2'-6"
F4.0	4'-0" x 4'-0" x 1'-2"	(4) #5 x 3'-6"
F4.0T	4'-0" x 4'-0" x 1'-4"	(4) #5 x 3'-6" T&B
F5.0	5'-0" x 5'-0" x 1'-2"	(5) #5 x 4'-6"
F5.0T	5'-0" x 5'-0" x 2'-0"	(5) #5 x 4'-6" T&B
F6.0	6'-0" x 6'-0" x 1'-2"	(7) #5 x 5'-6"
F6.0T	6'-0" x 6'-0" x 2'-0"	(7) #5 x 5'-6" T&B
F7.0	7'-0" x 7'-0" x 1'-4"	(6) #6 x 6'-6"
F7.0T	7'-0" x 7'-0" x 2'-0"	(6) #6 x 6'-6" T&B
F8.0	8'-0" x 8'-0" x 1'-6"	(8) #6 x 7'-6"
F8.0T	8'-0" x 8'-0" x 2'-0"	(8) #6 x 7'-6" T&B
F9.0	9'-0" x 9'-0" x 1'-8"	(8) #7 x 8'-6"
F9.0T	9'-0" x 9'-0" x 2'-0"	(8) #7 x 8'-6" T&B
F10.0	10'-0" x 10'-0" x 1'-10"	(9) #7 x 9'-6"
F10.0T	10'-0" x 10'-0" x 2'-0"	(9) #7 x 9'-6" T&B
F11.0	11'-0" x 11'-0" x 2'-0"	(11) #7 x 10'-6"
F11.0T	11'-0" x 11'-0" x 2'-0"	(11) #7 x 10'-6" T&B
F12.0	12'-0" x 12'-0" x 2'-2"	(10) #8 x 11'-6"
F12.0T	12'-0" x 12'-0" x 2'-2"	(10) #8 x 11'-6" T&B

NOTES:
1. CENTER FOOTINGS BENEATH COLUMNS, U.N.O.
2. ALL FOOTINGS MUST BE BOARD-FORMED, UNLESS APPROVED.
3. INCREASE FOOTING DEPTH WHERE REQ'D TO ENCASE COLUMN ANCHOR RODS.
4. PROVIDE BOTH TOP & BOTTOM REINF. AT FOOTINGS WITH SUFFIX 'T' OR 'SP'.



WALL FOOTING SCHEDULE

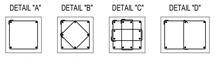
FTG. MARK	FOOTING SIZE WIDTH	DEPTH	FOOTING REINFORCING LONGITUDINAL	TRANSVERSE
WF24	2'-0"	1'-0"	(2) #5 x CONTINUOUS	#4 x 1'-6" @ 96" O.C.
WF30	2'-6"	1'-2"	(3) #5 x CONTINUOUS	#4 x 2'-0" @ 96" O.C.
WF36	3'-0"	1'-2"	(3) #5 x CONTINUOUS	#4 x 2'-6" @ 96" O.C.
WF42	3'-6"	1'-2"	(4) #5 x CONTINUOUS	#5 x 3'-0" @ 12" O.C.
WF48	4'-0"	1'-2"	(4) #5 x CONTINUOUS	#5 x 3'-6" @ 12" O.C.
WF72	6'-0"	1'-8"	(6) #6 x CONTINUOUS	#6x 5'-6" @ 12" O.C. T&B

NOTES:
1. CENTER FOOTINGS BENEATH WALLS, U.N.O.
2. REF. S401 FOR TYP. WALL FOOTING CONSTRUCTION JOINT DETAIL.
3. LAP FOOTING REINF. A MIN. OF 36 BAR DIAMETERS.
4. PROVIDE BOTH TOP & BOTTOM REINF. AT FOOTINGS DENOTED WITH SUFFIX 'T' ON PLAN.

CONCRETE PIER SCHEDULE

PIER MARK	PIER SIZE L.	W.	PIER REINFORCING VERTICALS	TIES - SIZE & SPACING	DETAIL	CRITICAL HEIGHT
P20	1'-8"	1'-8"	(6) #6	#4 @ 10" OC (REF. NOTE #3)	D	≤ 2'-8"
			(4) #7	#4 @ 10" OC (REF. NOTE #3)	A	> 2'-8"
P24	2'-0"	2'-0"	(8) #6	#4 @ 12" OC (REF. NOTE #3)	B	≤ 2'-8"
			(4) #8	#4 @ 12" OC (REF. NOTE #3)	A	> 2'-8"
P28	2'-4"	2'-4"	(8) #7	#4 @ 12" OC (REF. NOTE #3)	B	≤ 3'-0"
			(4) #9	#4 @ 12" OC (REF. NOTE #3)	A	> 3'-0"

1. PROVIDE MIN. 1½" CLEAR TO PIER TIES.
2. "CRITICAL HEIGHT" DENOTES HEIGHT ABOVE WHICH LARGER DIAMETER VERTICALS WITH FEWER TIES MAY BE USED. REFER TO FOUNDATION PLAN(S) FOR T/P & T/F ELEVATIONS.
3. TYPICAL TIE SPACING, UNLESS NOTED OTHERWISE: REF. DETAIL **20/S401** FOR ADDITIONAL TIE SPACING REQUIREMENTS AT TOP & BOTTOM OF PIER. REQUIREMENTS VARY WITH TIE BAR SIZE AND COLUMN ANCHOR ROD DIAMETER.
4. DOWELS TO FUNCTION AS PIER VERTICALS FOR PIERS LESS THAN OR EQ. TO 5'-0" H. PROVIDE SEPARATE DOWELS & VERTICALS FOR PIERS GREATER THAN OR EQUAL TO 5'-0" H, UNLESS APPROVED.
5. CONTACT ENGINEER FOR DIRECTION IF COLUMN ANCHOR RODS FOUL WITH PIER TIES OR VERTICALS.
6. WHERE PIERS ARE INTEGRAL WITH CAST-IN-PLACE CONCRETE WALLS, CONTINUE HORIZONTAL WALL REINFORCING THROUGH PIERS.
7. PROVIDE STANDARD 90° HOOK AT TOP OF PIER VERTICALS AT ALL PIERS SUPPORTED BY A FOOTING WITH TOP REINFORCING.



ABBREVIATION LEGEND

ABBR	DEFINITION	ABBR	DEFINITION	ABBR	DEFINITION
AB	ANCHOR BOLT	GA	GAGE (GAUGE)	PAF	POWDER-ACTUATED FASTENER
ABV	ABOVE	GALV	GALVANIZED	PARTN	PARTITION
ACI	AMERICAN CONCRETE INSTITUTE	GB	GRADE BEAM	PC	PRECAST CONCRETE
ACIP	AUGERED CAST IN PLACE PILE	GC	GENERAL CONTRACTOR	PCF	POUNDS PER CUBIC FOOT
ADDL	ADDITIONAL	GLULAM	GLUE LAMINATED WOOD	PCI	PRECAST CONCRETE INSTITUTE
ADDM	ADDENDUM	GRAN	GRANULAR	PDF	POWER-DRIVEN FASTENER
ADJ	ADJUSTABLE	GWB	GYPSUM WALL BOARD	PERIM	PERIMETER
AESS	ARCHITECTURALLY EXPOSED STRUCT. STL.			PL	PLATE
AFF	ABOVE FINISHED FLOOR	H	HIGH (HEIGHT)	PLBG	PLUMBING
AGG	AGGREGATE	HAS	HEADED ANCHOR STUD	PLF	POUNDS PER LINEAL FOOT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRN.	HC	HOLLOW CORE	PLYWD	PLYWOOD
AISI	AMERICAN IRON & STEEL INSTITUTE	HD	HOLD DOWN	PNL	PANEL
ALT	ALTERNATE	HK	HOOK	PREFAB	PREFABRICATED
ANCH	ANCHORAGE	HORIZ	HORIZONTAL	PROJ	PROJECTION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	HP	HIGH POINT	PSF	POUNDS PER SQUARE FOOT
APA	AMERICAN PLYWOOD ASSOCIATION			PSI	POUNDS PER SQUARE INCH
APPROX	APPROXIMATE			PSL	PARALLEL STRAND LUMBER
ARCH	ARCHITECT(URAL)			PPT	PRESSURE PRESERVATIVE TREATED
ASSY	ASSEMBLY	IBC	INTERNATIONAL (INDIANA) BUILDING CODE	PSC	PRESTRESSED CONCRETE
ASTM	AMERICAN SOCIETY FOR TESTING & MATLS.	ID	INSIDE DIAMETER	PT	POST TENSIONED
AVG	AVERAGE	IF	INSIDE FACE	PTD	PAINTED
AWS	AMERICAN WELDING SOCIETY	INCR	INCREASE	PRTN	PARTITION
		INFO	INFORMATION	PVMT	PAVEMENT
		INDOT	INDIANA DEPARTMENT OF TRANSPORTATION		
B/'X'	BOTTOM OF REFERENCED ITEM	INSUL	INSULATE (INSULATION)		
BB	BOND BEAM	INT	INTERIOR	QTR	QUARTER
BFF	BELOW FINISHED FLOOR	INV	INVERT	QTY	QUANTITY
BLDG	BUILDING	ISO	ISOLATION		
BLKG	BLOCKING	IT	INVERTED TEE BEAM		
BLW	BELOW			R	RADIUS
BM	BEAM			RB	RECTANGULAR BEAM (PRECAST)
BOT	BOTTOM	JBE	JOIST BEARING ELEVATION	REF	REFER TO (REFERENCE)
BP	BASE PLATE	JST	JOIST	REQD	REQUIRED
BRDG	BRIDGING	JT	JOINT	REV	REVISION (REVISED)
BRG	BEARING			RF	ROOF
BS	BOTH SIDES			RO	ROUGH OPENING
BTWN	BETWEEN	KIP	1,000 POUNDS	RTU	ROOF TOP UNIT
		KO	KNOCK OUT	RTN	RETURN
		KSF	KIPS PER SQUARE FOOT	RW	RETAINING WALL
C/C	CENTER TO CENTER	KSI	KIPS PER SQUARE INCH		
CAIS	CAISSON				
CAPY	CAPACITY			SBCA	STRUCTURAL BUILDING COMPONENTS ASSN.
CANT	CANTILEVER	L	LONG (LENGTH)	SCT	STRUCTURAL CLAY TILE
CB	CONCRETE BEAM	Ld	TENSION DEVELOPMENT LENGTH	SCHED	SCHEDULE
CC	CONCRETE COLUMN	LB	'L' BEAM	SDI	STEEL DECK INSTITUTE
CFS	COLD-FORMED STEEL	LBS	POUNDS	SE	SLAB EDGE
CIP	CAST IN PLACE	LGSF	LIGHT GAUGE STEEL FRAMING	SER	STRUCTURAL ENGINEER OF RECORD
CJ	CONTROL JOINT	LL	LIVE LOAD	SECT	SECTION
CNJ	CONSTRUCTION JOINT	LLH	LONG-LEG HORIZONTAL	SHT	SHEET
CL	CENTERLINE	LLO	LONG-LEG OUTSTANDING	SIM	SIMILAR
CLR	CLEAR(ANCE)	LLV	LONG-LEG VERTICAL	SJI	STEEL JOIST INSTITUTE
CMU	CONCRETE MASONRY UNIT	LNTL	LINTEL	SL	SLOPE
COL	COLUMN	LONG	LONGITUDINAL	SOG	SLAB ON GRADE
COLL	COLLATERAL	LP	LOW POINT	SPA	SPACE (S)(D)(ING)
CONC	CONCRETE	LVL	LAMINATED VENEER LUMBER	SPECS	SPECIFICATIONS
CONSTR	CONSTRUCTION	LW	LONG WAY	SQ	SQUARE
CONT	CONTINUOUS	LWC	LIGHTWEIGHT CONCRETE	SS	STAINLESS STEEL
CRSI	CONCRETE REINFORCING STEEL INSTITUTE			SSE	SPECIALTY STRUCTURAL ENGINEER
CTR	CENTER			STD	STANDARD
CTRD	CENTERED	MATL	MATERIAL	STIFF	STIFFENER
CW	CONCRETE WALL	MAX	MAXIMUM	STL	STEEL
		MC	MOMENT CONNECTION	STR	STRENGTH
		MECH	MECHANICAL	STRUCT	STRUCTURAL
D	DEEP (DEPTH)	MEZZ	MEZZANINE	SW	SHORT WAY
DBA	DEFORMED BAR ANCHOR	MFR	MANUFACTURER	SW	SHEAR WALL (OCCASIONAL)
DEG	DEGREE	MIN	MINIMUM	SYMM	SYMMETRICAL
DIA	DIAMETER	MISC	MISCELLANEOUS		
DIAG	DIAGONAL	MO	MASONRY OPENING		
DIM	DIMENSION	MOM	MOMENT	T/'X'	TOP OF REFERENCED ITEM
DL	DEAD LOAD	MTL	METAL	T&B	TOP AND BOTTOM
DN	DOWN			T&G	TONGUE & GROOVE
DP	DRILLED PIER			TB	TIE BEAM
DT	DOUBLE TEE	NDS	NATIONAL DESIGN SPEC'N. FOR WOOD	TD	TRENCH DRAIN
DTL	DETAIL	NIC	NOT IN CONTRACT	TEMP	TEMPERATURE
DWG	DRAWING	NO	NUMBER	TF	TRENCH FOOTING
DWL	DOWEL	NOM	NOMINAL	THK	THICK(NESS)
		NRC	NOISE REDUCTION COEFFICIENT	TOPG	TOPPING
		NS	NEAR SIDE	TPI	TRUSS PLATE INSTITUTE
EA	EACH	NTS	NOT TO SCALE	TRANSV	TRANSVERSE
ECC	ECCENTRIC	NWC	NORMAL WEIGHT CONCRETE	TYP	TYPICAL
EF	EACH FACE				
EIFS	EXTERIOR INSULATION & FINISH SYSTEM				
EJ	EXPANSION JOINT	O/O	OUT TO OUT	UNO	UNLESS NOTED OTHERWISE
EL	ELEVATION	OA	OVERALL	UNEXC	UNEXCAVATED
ELEC	ELECTRICAL	OC	ON CENTER		
ELEV	ELEVATOR	OD	OUTSIDE DIAMETER		
ENG	ENGINEER	OF	OUTSIDE FACE	VERT	VERTICAL
EQ	EQUAL	OH	OPPOSITE HAND		
EQ SPA	EQUALLY SPACED (EQUAL SPACING)	OPNG	OPENING		
EQUIV	EQUIVALENT	OPP	OPPOSITE	W	WIDE (WIDTH)
ES	EACH SIDE	OSB	ORIENTED STRAND BOARD	W/	WITH
EW	EACH WAY			WD	WOOD
EX	EXISTING			WF	WALL FOOTING
EXC	EXCAVATE (EXCAVATION)			WP	WORKING POINT
EXT	EXTERIOR			WPS	WELD PROCEDURE SPECIFICATION
				WRDA	WATER REDUCING ADMIXTURE
				WTCA	WOOD TRUSS COUNCIL OF AMERICA
FABR	FABRICATE (FABRICATOR)			WWF	WELDED WIRE FABRIC
FD	FLOOR DRAIN				
FDN	FOUNDATION				
FIN	FINISH				
FF	FINISHED FLOOR				
FLG	FLANGE				
FS	FAR SIDE				
FT	FOOT (FEET)				
FTG	FOOTING				
FV	FIELD VERIFY				

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PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 S Marr Rd
Columbus, Indiana 47201

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural materials and assemblies, and the size, shape, and relationship of 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, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

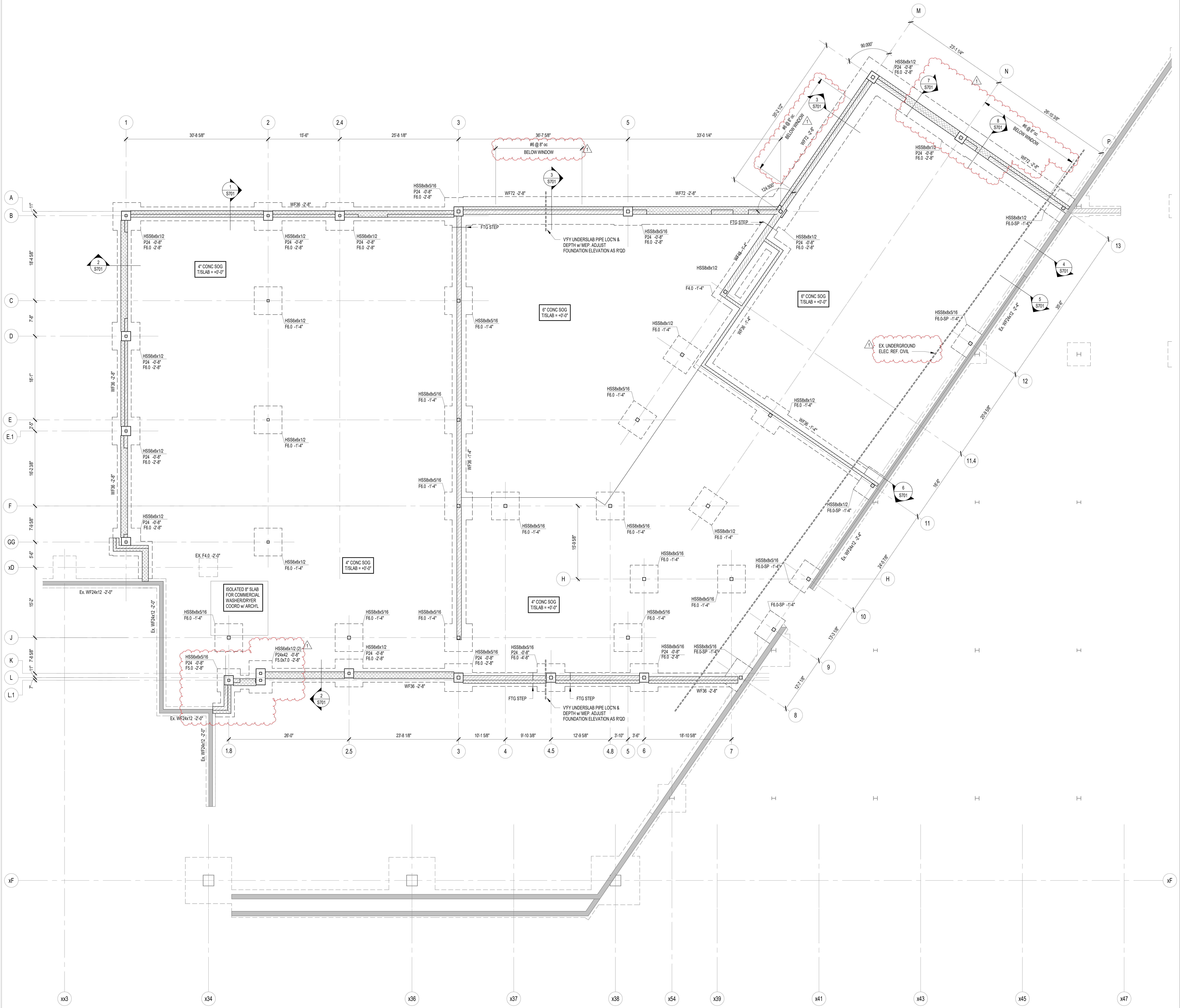
ISSUE DATE	DRAWN BY	CHECKED BY
10/24/25	MMA/JRO	MDL

DRAWING TITLE:
GENERAL STRUCTURAL NOTES & SCHEDULES

CERTIFIED BY:
MARK D. LAVIER
REGISTERED
PE19400114
STATE OF
INDIANA
PROFESSIONAL ENGINEER

DRAWING NUMBER
S002

PROJECT NUMBER
2025022



1 / S201 **FOUNDATION PLAN**
SCALE: 1/8" = 1'-0"
NORTH

FOUNDATION PLAN NOTES

1. REF. S001 & S002 FOR STRUCTURAL NOTES, DESIGN DATA, SCHEDULES & LEGENDS.
2. REF. THE S400 SERIES FOR TYPICAL FOUNDATION AND MASONRY DETAILS.
3. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELECTRICAL, AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NOT BE INDICATED.
4. ALL ELEVATIONS ARE REFERENCED FROM THE EXISTING FIRST FLOOR FIN. FLOOR ELEVATION +0'-0". VERIFY USGS ELEVATION WITH CIVIL DWGS.
5. ALL WALLS SHALL BE LAID OUT FROM THE ARCHITECTURAL DRAWINGS.
6. REF. ARCH. DRAWINGS. FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
7. COORDINATE EXACT SIZE & LOCATION OF ALL MECHANICAL OPENINGS IN FDN. WALLS WITH THE MECHANICAL, ELECTRICAL & PLUMBING CONTRACTORS.
8. NOTE: PERIMETER FOOTINGS SHALL BE LOWERED AND/OR SLEEVED TO PASS BELOW PLUMBING LINES (E.G., SANITARY & STORM LINES, WATER LINES, ETC.) SHOWN ON THE PLUMBING DRAWINGS. PROVIDE FOOTING STEPS AS REQUIRED PER THE TYPICAL DETAILS ON S401.
9. ALL SLAB RECESSES SHALL BE LOCATED PER THE ARCHITECTURAL DRAWINGS. COORDINATE DEPTHS OF ALL SLAB RECESSES WITH THE ARCHITECTURAL DRAWINGS AND/OR THE FLOORING SUPPLIER.
10. PROVIDE CMU REINFORCING AS FOLLOWS, UNLESS NOTED OTHERWISE ON PLANS & SECTIONS:

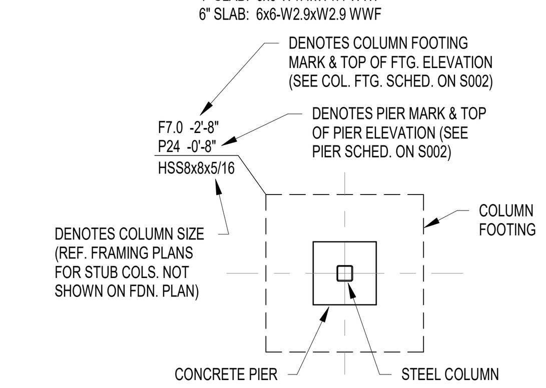
12" CMU, EXTERIOR (> 20' TALL):	#6 @ 16" OC
12" CMU, EXTERIOR (< 20' TALL):	#6 @ 32" OC
12" CMU, INTERIOR (> 20' TALL):	#6 @ 32" OC
12" CMU, INTERIOR (< 20' TALL):	#5 @ 32" OC
10" CMU, EXTERIOR:	#6 @ 32" OC
10" CMU, INTERIOR:	#5 @ 32" OC
8" CMU:	#5 @ 32" OC
6" CMU:	#5 @ 48" OC
FOUNDATION WALLS NOT EXTENDING ABOVE GRADE:	#5 @ 48" OC

(NOTE: WHERE ONLY THE UPPER PORTION OF WALL HAS EXTERIOR EXPOSURE, THE ENTIRE WALL IS AN EXTERIOR WALL FOR REINFORICNG PURPOSES.)

PROVIDE OPEN-CORE BOND BEAMS AT TOPS OF WALLS, AT CHANGES IN CMU THICKNESS, AND WHERE INDICATED ON PLANS & SECTIONS (10'-0" OC MAX VERTICAL SPACING). PROVIDE 1/2 OF INTERRUPTED VERTICALS AT JAMBS OF OPENINGS AND PROVIDE ADDITIONAL VERT'S. AT ENDS OF WALLS.

11. COORDINATE REINFORCING DOWELS FOR CMU VERTICAL REINFORCING WITH REINF. NOTED ON PLANS & SECTIONS.
12. GROUT ALL CORES OF CMU SOLID BELOW FIN. FLOOR ELEVATION.
13. PROVIDE THICKENED SLAB UNDER ALL INTERIOR CMU WALLS WITHOUT FOOTINGS. SEE S401 FOR THICKENED SLAB DETAIL. REF. THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF CMU WALLS.
14. ALL FOOTINGS SHALL BEAR ON SOIL IMPROVED USING AGGREGATE PIERS TO PROVIDE AN ALLOWABLE BEARING CAPACITY OF 3000 PSF. REF FOUNDATION & AGGREGATE PIER NOTES ON S001.
15. PROVIDE CONTROL/CONTRACTION JOINTS IN SLABS ON GRADE (REF. TYPICAL DETAILS ON S401). ALL JOINTS IN SLABS TO RECEIVE THIN OR THICK-SET TERRAZZO, CERAMIC OR PORCELAIN TILE, VINYL-COMPOSITION TILE (VCT) OR VINYL SHEET GOODS, EPOXY OR SIMILAR THIN-FILM FINISH FLOORING SHALL BE CAREFULLY COORDINATED WITH THE FLOORING CONTRACTOR. THE CONTRACTOR SHALL SUBMIT SLAB JOINT LAYOUT TO ARCHITECT/ENGINEER FOR REVIEW PRIOR TO PLACING SLABS.
16. EARTH-FORMED FOOTINGS ARE ACCEPTABLE WHERE SOIL CONDITIONS PERMIT (I.E. WHERE THE BANKS OF THE EXCAVATION WILL HOLD WITHOUT CAVING AND SLOUGHING). HOWEVER, THE PLAN DIMENSION OF EARTH- FORMED FOOTINGS MUST BE INCREASED BY 2" ALONG ALL EDGES TO ACCOUNT FOR INACCURACIES ASSOCIATED WITH EARTH-FORMING (I.E. 2'-0" WIDE WALL FOOTINGS SHALL BE 2'-4" WIDE AND 5'-0" SQUARE COLUMN FOOTINGS SHALL BE 5'-4" SQUARE).
17. SUBSTITUTION OF POLYPROPYLENE FIBER SECONDARY REINFORCING FOR WELDED WIRE FABRIC IS PERMITTED FOR SLABS ON GRADE EXCEPT FOR GYMNASIUM SLABS AND SLABS THAT RECEIVE EPOXY FINISH FLOORING (COORD. LOCATIONS WITH ARCHITECTURAL FINISH PLANS).
18. REF. ARCHITECTURAL DWGS. FOR MASONRY CONTROL & EXPANSION JOINT LOCATIONS.
19. ALL EXISTING CONSTRUCTION SHOWN IN PLAN AND/OR SECTION WAS DERIVED FROM EXISTING DRAWINGS AND MUST BE FIELD VERIFIED. IF ANY DISCREPANCIES ARE DISCOVERED BETWEEN INFORMATION SHOWN ON THE DRAWINGS AND ACTUAL CONDITIONS, IMMEDIATELY CONTACT THE ARCHITECT/ENGINEER FOR DIRECTION BEFORE PROCEEDING WITH THE WORK.
20. (1) CONTRACTOR SHALL CONSIDER SEQUENCING OF UTILITY EXCAVATIONS AND THEIR AFFECT ON AGGREGATE PIER IMPROVED SOIL. REFER TO TYPICAL DETAILS ON S402 FOR LIMITATIONS ON EXCAVATIONS ADJACENT INSTALLED AGGREGATE PIERS. COORDINATE SEQUENCING AND OR SUBMIT FOOTING ELEVAITON ADJUSTMENTS TO COMPLY WITH AGGREGATE PIER REQUIREMENTS.
21. PLAN LEGEND:

FF	DENOTES FIN. FLOOR
T/'X'	DENOTES TOP OF FTG, SLAB, PIER, ETC.
B/'X'	DENOTES BOTTOM OF FTG, GRADE BEAM, ETC.
CJ	DENOTES SLAB ON GRADE CONTROL/CONTRACTION JOINT
WF24 -2'-8"	DENOTES WALL FOOTING MARK & TOP OF FOOTING ELEVATION (REF. WALL FTG SCHED.)
TB24x24 -1'-4"	DENOTES TIE BEAM MARK & T/BEAM ELEVATION (REF. TIE BEAM SCHEDULE)
(symbol)	DENOTES WALL FOOTING WITH STEPS. REF. TYP. DETAIL ON S401
(symbol)	DENOTES CMU FOUNDATION WALL
(symbol)	DENOTES CMU FDN. WALL HELD DOWN AT OPENINGS
#5@32"OC	DENOTES CMU WALL VERT. REINF. SIZE & SPACING. IF NOT SHOWN, PROVIDE MIN. PER NOTE 10 ABOVE.
4" CONC. SOG T/SLAB +0'-0"	DENOTES SLAB ON GRADE THICKNESS & FIN FLOOR ELEVATION. ALL SLABS ON GRADE TO BE PLACED ON GROUND IMPROVED BY A GRID OF AGGREGATE PIERS WITH 6" MIN. COMPACTED GRANULAR FILL & VAPOR BARRIER/RETARDER PER SPECS. PROVIDE THE FOLLOWING WELDED WIRE FABRIC REINFORCING: 4" SLAB: 6x6-W1.4xW1.4 WWF; 6" SLAB: 6x6-W2.9xW2.9 WWF



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PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C^4 ADDITION
230 S Marr Rd
Columbus, Indiana 47201

SCOPE DRAWINGS:
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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:

#	Description	Date
1	Addendum #3	11/10/25

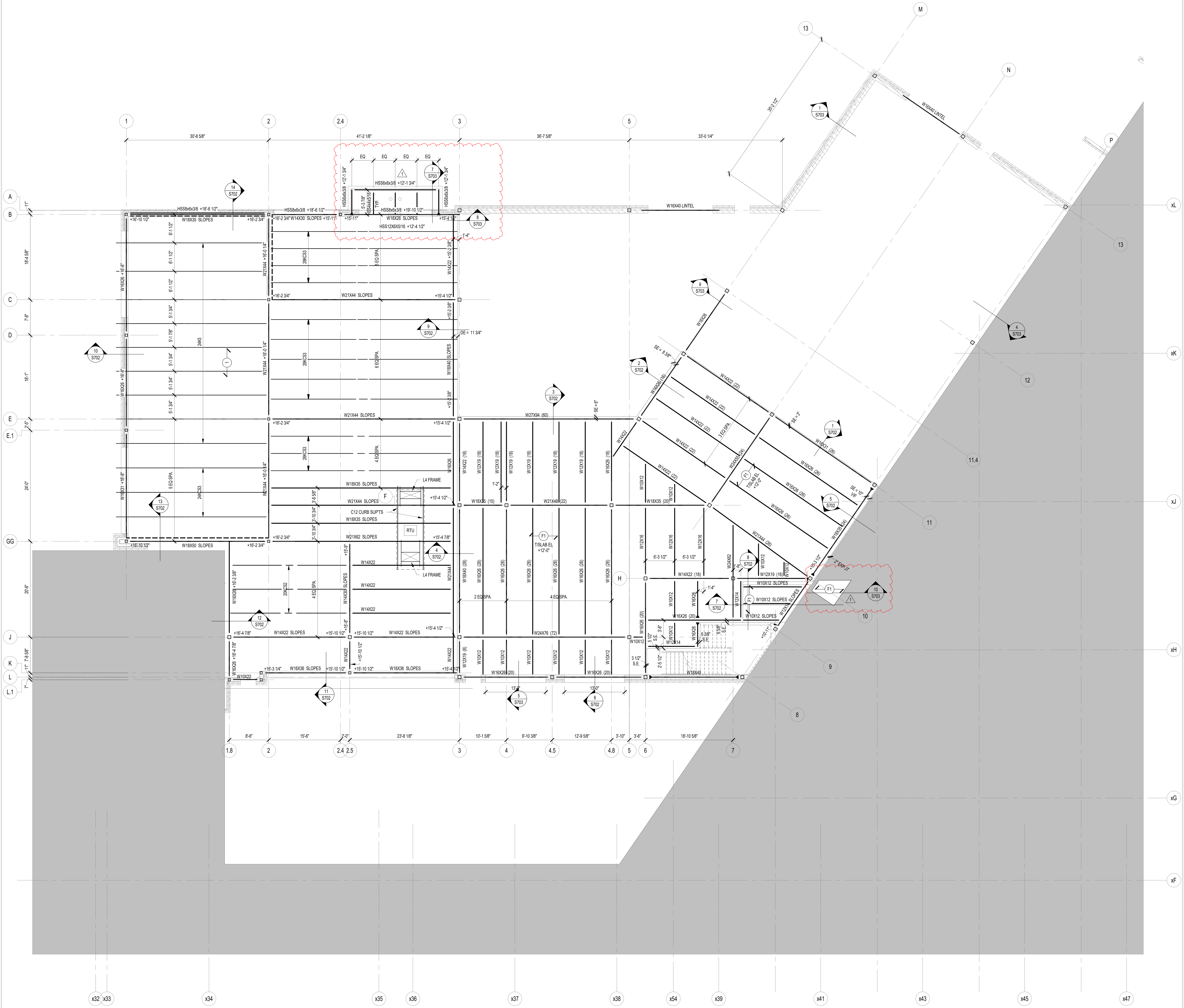
ISSUE DATE	DRAWN BY	CHECKED BY
10/24/25	NMA/JRO	MDL

DRAWING TITLE:
FOUNDATION PLAN

CERTIFIED BY:
MARK D. LAVIER
REGISTERED
PE19400114
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWING NUMBER
S201

PROJECT NUMBER
2025022



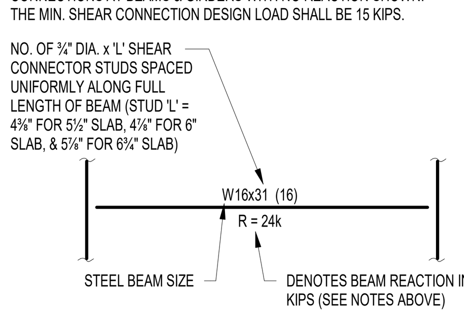
1 / S202 LOW ROOF/SECOND FLOOR FRAMING PLAN
SCALE: 1/8" = 1'-0"
NORTH

FRAMING PLAN NOTES

1. REF. S001 & S002 FOR STRUCTURAL NOTES, DESIGN DATA, SCHEDULES & LEGENDS.
2. REF. THE S400 SERIES FOR TYPICAL FRAMING AND MASONRY DETAILS.
3. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELECTRICAL, AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NOT BE INDICATED.
4. ALL ELEVATIONS ARE REFERENCED FROM THE EXISTING FIRST FLOOR FIN. FLOOR ELEVATION +0'-0". VERIFY USGS ELEVATION WITH CIVIL DWGS.
5. ALL WALLS SHALL BE LAID OUT FROM THE ARCHITECTURAL DRAWINGS.
6. REF. ARCH. DRAWINGS. FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
7. COORDINATE EXACT SIZE & LOCATION OF ANY MECHANICAL OPENINGS IN FLOOR SLAB, ROOF DECK, OR WALLS WITH THE MEP CONTRACTOR(S). LOCATION & SIZE OF ALL DUCT OPENINGS, GRILLES, ETC. SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
8. ALL ELEVATIONS SHOWN ON PLAN INDICATE TOP OF STEEL BEAM UNLESS NOTED OTHERWISE.
9. PROVIDE CHANNEL FRAMES AT ALL SUPPORTED SLAB OPENINGS PER TYPICAL DETAIL ON S404. COORDINATE EXACT NUMBER, LOCATIONS & DIMENSIONS WITH THE APPROPRIATE CONTRACTORS & THE ARCH. & MEP DRAWINGS.
10. PROVIDE FRAMES AT ALL ROOF DRAINS, ROOF HATCHES & OTHER ROOF OPENINGS PER TYPICAL DETAILS ON S404. COORD. EXACT NUMBER, LOCATIONS & DIMENSIONS WITH THE APPROPRIATE CONTRACTORS & THE ARCH. & MEP DWGS.
11. REF. FOUNDATION PLAN NOTES FOR CMU WALL REINFORCING REQUIREMENTS.
12. ALL MASONRY BOND BEAMS, OTHER THAN BOND BEAM LINTELS OVER OPENINGS, SHALL BE "OPEN-CORE" BOND BEAMS TO ALLOW VERTICAL REINFORCING TO PASS THROUGH, UNLESS NOTED OTHERWISE.
13. REF. ARCH. DWGS. FOR MASONRY CONTROL & EXPANSION JOINT LOCATIONS.
14. ALL HORIZONTAL AND DIAGONAL BRIDGING FOR STEEL JOISTS SHALL BE DESIGNED, LOCATED & PROVIDED BY THE JOIST SUPPLIER PER SJI SPECIFICATIONS.
15. FOR ESTIMATING AND BIDDING PURPOSES ONLY, ASSUME AN ADDITIONAL 1/2" THICKNESS OF CONCRETE WILL BE NECESSARY FOR ALL ELEVATED SLABS ON METAL DECK. THE INTENT OF THIS REQUIREMENT IS TO ACCOUNT FOR ANTICIPATED DEAD LOAD DEFLECTIONS IN THE SUPPORTING STRUCTURE. THE FINISHED SLAB SHALL MEET THE FLATNESS REQUIREMENTS DEFINED IN THE SPECIFICATION.
16. PLAN LEGEND:

FF	DENOTES FIN. FLOOR
T/'X'	DENOTES TOP OF STEEL, SLAB, ETC.
B/'X'	DENOTES BOTTOM OF LINTEL, ETC.
SE	DENOTES SLAB EDGE DIMENSION MEASURED FROM BEAM OR COLUMN CENTERLINE
DE	DENOTES DECK EDGE ANGLE DIMENSION MEASURED FROM BEAM OR COLUMN CENTERLINE
BP	DENOTES BEAM BEARING PLATE ON CMU WALL
F1	DENOTES 2", 20 GA. GALVANIZED COMPOSITE DECK w/ 3½" NW CONC SLAB w/ 6x6-W2.1xW2.1 WWF, TOTAL 't' = 5½". REF. DETAIL 1/S404.
1	DENOTES 1½", 20 GA. GALVANIZED & PRIME-PAINTED WIDE RIB ACOUSTIC STEEL ROOF DECK. REF. DETAIL 2/S404.
1A	DENOTES 1 1/2", 20 GA. GALVANIZED & PRIME-PAINTED ACOUSTICAL STEEL ROOF DECK. REF. DETAIL 3/S404.
	DENOTES BEAM-TO-COLUMN MOMENT CONNECTION. REF. DETAILS ON S405.
	DENOTES BEAM-THRU-BEAM MOMENT CONNECTION. REF. DETAILS ON S405.
	DENOTES BRACED FRAME OR KICKER LOCATION
	DENOTES APPROX. LOCATION OF OPENING IN DECK/SLAB. REF. DETAILS ON S404 FOR TYPICAL OPENING FRAMES.

17. WIDE-FLANGE BEAM & GIRDER NOTATION:
BEAM REACTIONS SHOWN IN KIPS TO BE USED FOR DESIGN OF SHEAR CONNECTION BY STEEL FABRICATOR'S SSE (ALLOWABLE STRESS DESIGN / LOADS UNFACTORED).
REF. THE STEEL CONNECTION NOTES ON S001 FOR DESIGN OF CONNECTIONS AT BEAMS & GIRDERS WITH NO REACTION SHOWN. THE MIN. SHEAR CONNECTION DESIGN LOAD SHALL BE 15 KIPS.



TYPICAL COMPOSITE BEAM DIAGRAM

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BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 S Marr Rd
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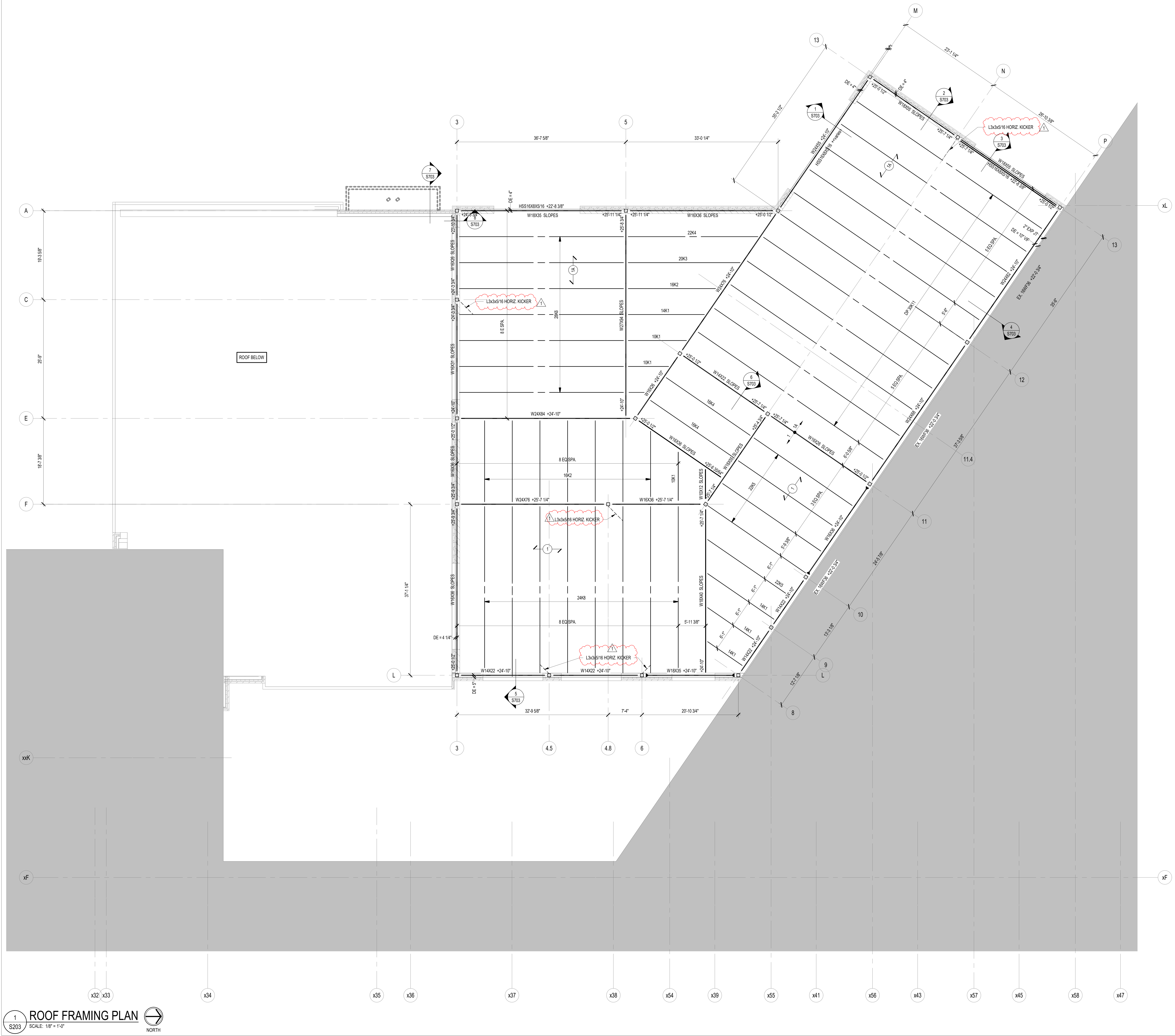
ISSUE DATE	DRAWN BY	CHECKED BY
10/24/25	NMA/JRO	MDL

DRAWING TITLE:
LOW ROOF/SECOND FLOOR FRAMING PLAN

CERTIFIED BY:
MARK D. LaVIER REGISTERED PE19400114 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWING NUMBER
S202

PROJECT NUMBER
2025022



1 / S203 **ROOF FRAMING PLAN**
SCALE: 1/8" = 1'-0"

FRAMING PLAN NOTES

1. REF. S001 & S002 FOR STRUCTURAL NOTES, DESIGN DATA, SCHEDULES & LEGENDS.
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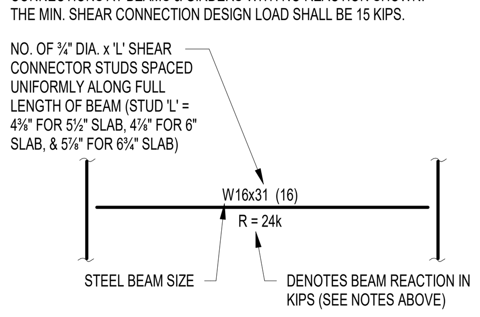

TYPICAL COMPOSITE BEAM DIAGRAM

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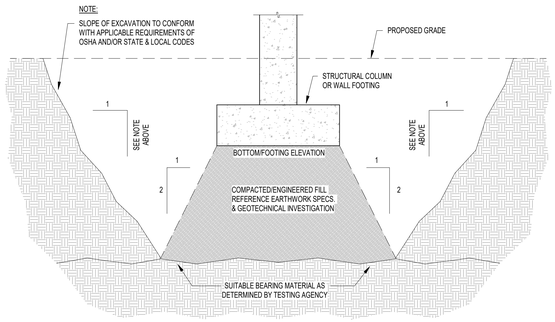
ISSUE DATE	DRAWN BY	CHECKED BY
10/24/25	NMA/JRO	MDL

DRAWING TITLE:
ROOF FRAMING PLAN

CERTIFIED BY:
MARK D. LAVIER REGISTERED PE19400114 STATE OF INDIANA PROFESSIONAL ENGINEER

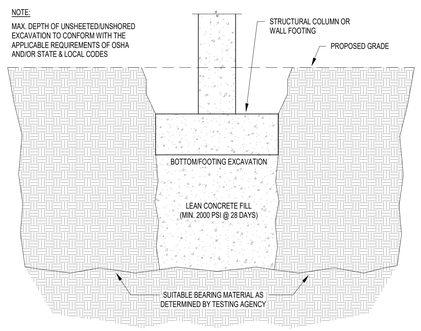
DRAWING NUMBER
S203

PROJECT NUMBER
2025022



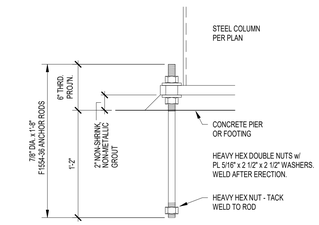
1. REFER TO THE SPECIFICATIONS FOR APPLICATION OF UNIT COSTS FOR REMOVAL OF UNSUITABLE BEARING MATERIAL & REPLACEMENT WITH COMPACTED, ENGINEERED FILL
2. REFER TO THE GEOTECHNICAL ENGINEERING REPORT FOR ADDITIONAL INFORMATION RE: EXPECTED SOIL CONDITIONS, SUITABILITY OF EX. SOILS FOR USE AS ENGINEERED FILL, GROUNDWATER CONDITIONS, ETC.

1 S402 OVEREXCAVATION DETAIL - ENGINEERED FILL
SCALE: NONE



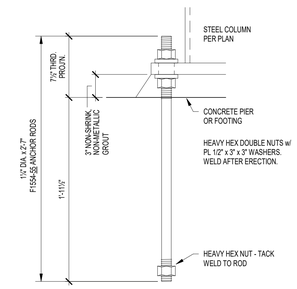
1. REFER TO THE SPECIFICATIONS FOR APPLICATION OF UNIT COSTS FOR REMOVAL OF UNSUITABLE BEARING MATERIAL & REPLACEMENT WITH LEAN CONCRETE FILL.
2. REFER TO THE GEOTECHNICAL ENGINEERING REPORT FOR ADDITIONAL INFORMATION RE: EXPECTED SOIL CONDITIONS, SUITABILITY OF EX. SOILS FOR USE AS ENGINEERED FILL, GROUNDWATER CONDITIONS, ETC.

2 S402 OVEREXCAVATION DETAIL - LEAN CONC. FILL
SCALE: NONE



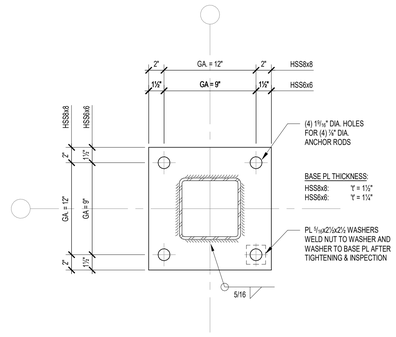
NOTES:
1. LOCATION OF ANCHOR RODS MUST NOT VARY MORE THAN 1/8" CENTER-TO-CENTER OF ANY TWO RODS WITHIN AN ANCHOR ROD GROUP.
2. HOLD MAX. DEVIATION OF 1/4" CENTER-TO-CENTER OF ADJACENT ANCHOR ROD GROUPS.
3. HOLD ELEVATION OF THE TOP OF THE ANCHOR RODS TO +/- 1/2 INCH.
4. HOLD MAXIMUM DEVIATION OF 1/4" FROM THE CENTER OF ANY ANCHOR ROD GROUP TO THE ESTABLISHED COLUMN LINE THROUGH THAT GROUP.
5. REFER TO THE AISC CODE OF STANDARD PRACTICE FOR ADDITIONAL INFORMATION.
6. TESTING AGENCY TO INSPECT TIGHTENING/TENSIONING OF ALL ANCHOR ROD NUTS IN BRACED FRAMES AND MOMENT FRAMES. WELD NUT & WASHER AFTER INSPECTION.

3 S402 7/8" DIA. ANCHOR ROD DETAIL
SCALE: NONE



NOTES:
1. REF. DETAIL 6/S402 FOR BALANCE OF NOTES.

4 S402 1¼" DIA. ANCHOR ROD DETAIL
SCALE: NONE



5 S402 BASE PL DETAIL - TYP HSS SQUARE
SCALE: NONE

BRACED FRAME COLUMN WITHOUT GUSSET PL

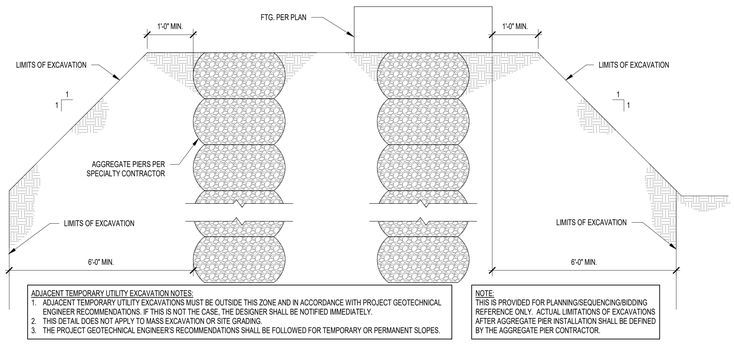
BRACED FRAME COLUMN WITH GUSSET PL

6 S402 BASE PL DETAILS - BRACED FRAME COLUMNS
SCALE: NONE

7 S402 SLEEVE UNDER WALL FOOTING
SCALE: NONE

8 S402 CONCRETE STAIR ON GRADE
SCALE: NONE

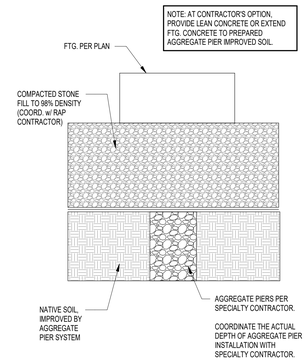
9 S402 NEW-TO-EXISTING SLAB ON GRADE DETAILS
SCALE: 3/4" = 1'-0"



ADJACENT TEMPORARY UTILITY EXCAVATION NOTES:
1. ADJACENT TEMPORARY UTILITY EXCAVATIONS MUST BE OUTSIDE THIS ZONE AND IN ACCORDANCE WITH PROJECT GEOTECHNICAL ENGINEER RECOMMENDATIONS. IF THIS IS NOT THE CASE, THE DESIGNER SHALL BE NOTIFIED IMMEDIATELY.
2. THIS DETAIL DOES NOT APPLY TO MASS EXCAVATION OR SITE GRADING.
3. THE PROJECT GEOTECHNICAL ENGINEER'S RECOMMENDATIONS SHALL BE FOLLOWED FOR TEMPORARY OR PERMANENT SLOPES.

NOTE:
THIS IS PROVIDED FOR PLANNING/SEQUENCING/BIDDING REFERENCE ONLY. ACTUAL LIMITATIONS OF EXCAVATIONS AFTER AGGREGATE PIER INSTALLATION SHALL BE DEFINED BY THE AGGREGATE PIER CONTRACTOR.

10 S402 TEMPORARY UTILITY EXCAVATION LIMITS AT ADJACENT AGGREGATE PIERS
SCALE: 3/4" = 1'-0"



11 S402 TYPICAL OVER EXCAVATION AT AGGREGATE PIERS
SCALE: 3/4" = 1'-0"

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Lynch, Harrison & Brumleve, Inc.

PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 S Marr Rd
Columbus, Indiana 47201

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural materials and construction assemblies, and the size and location of architectural elements and the type of structural, mechanical and electrical systems.
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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 #3 11/10/25

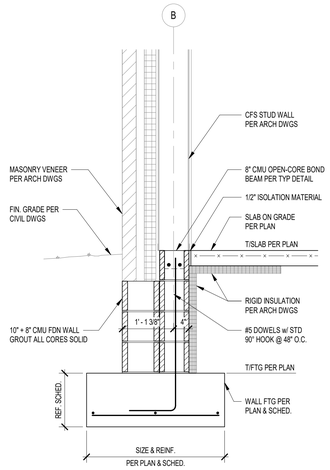
ISSUE DATE	DRAWN BY	CHECKED BY
10/24/25	NIMA/URO	MDL

DRAWING TITLE:
TYPICAL DETAILS

CERTIFIED BY:
MARK D. LAVIER
REGISTERED
PE19400114
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWING NUMBER
S402

PROJECT NUMBER
2025022



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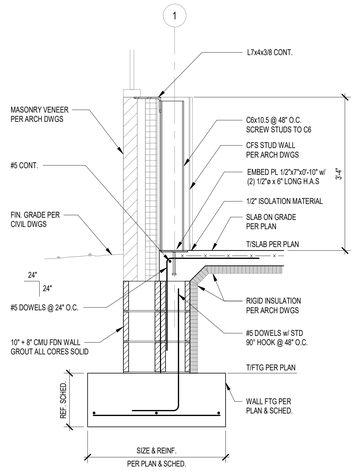

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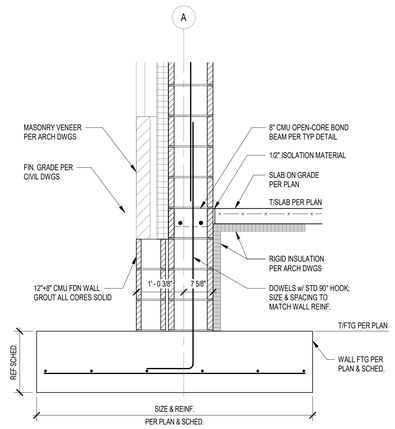

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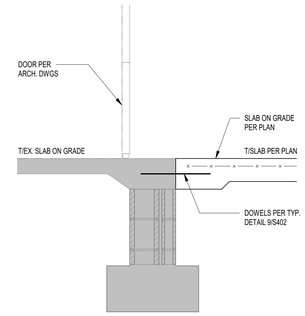

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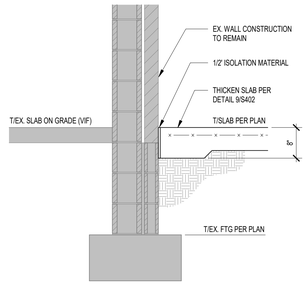

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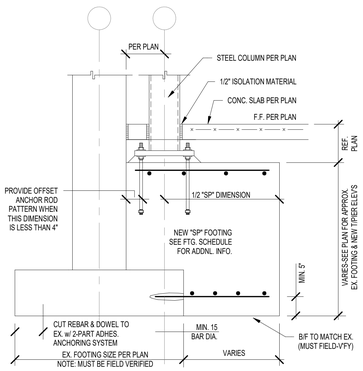
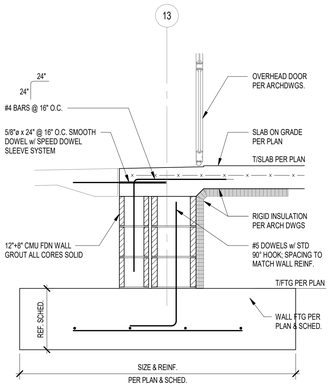


6 S701 **NEW-TO-EX. 'SP' COLUMN FOOTING DETAIL**
SCALE: 3/4" = 1'-0"



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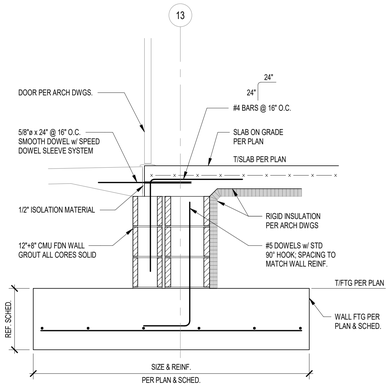

8 S701 **SECTION**
SCALE: 3/4" = 1'-0"

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PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 S Marr Rd
Columbus, Indiana 47201

SCOPE DRAWINGS:
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REVISIONS:
1 Addendum #3 11/10/25

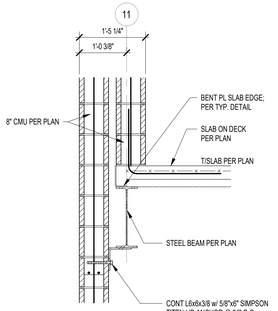
ISSUE DATE	DRAWN BY	CHECKED BY
10/24/25	NMA/JRO	MDL

DRAWING TITLE:
FOUNDATION SECTIONS AND DETAILS

CERTIFIED BY:
MARK D. LAVIER
REGISTERED
PE19400114
STATE OF
INDIANA
PROFESSIONAL ENGINEER

DRAWING NUMBER
S701

PROJECT NUMBER
2025022



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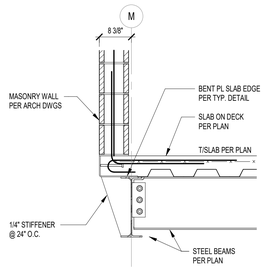

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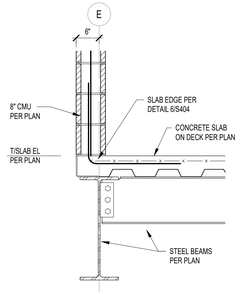

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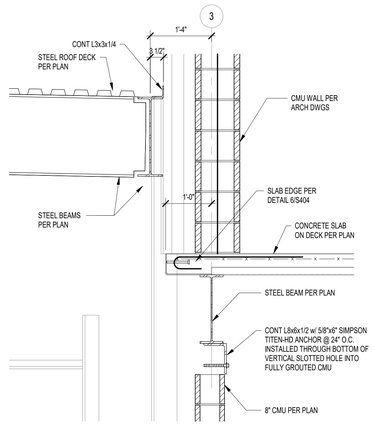

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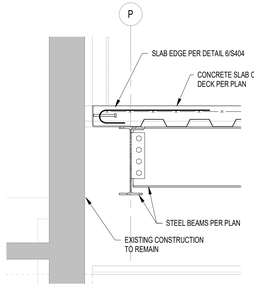

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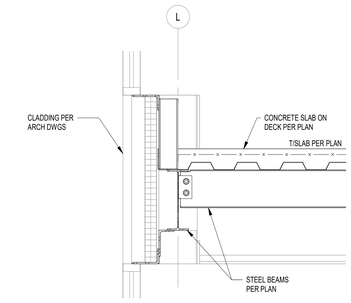

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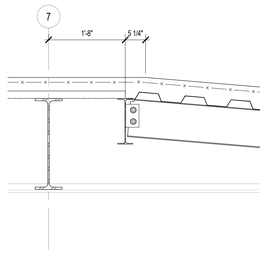

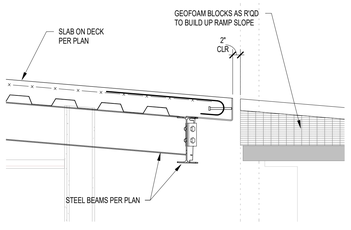

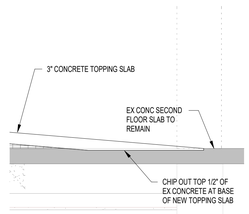

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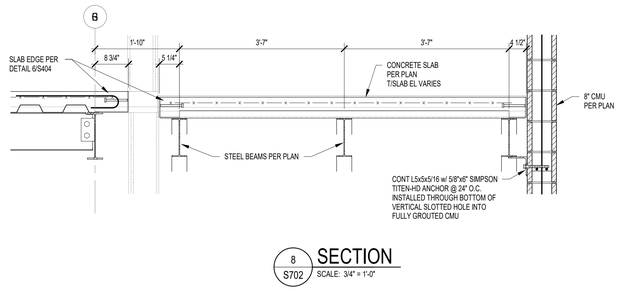

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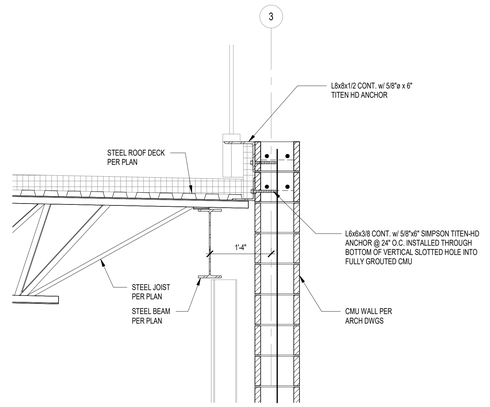

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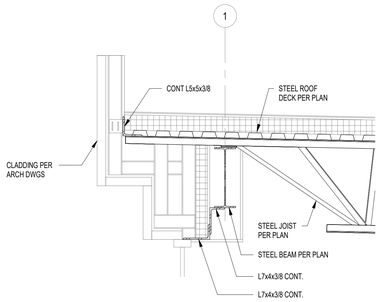

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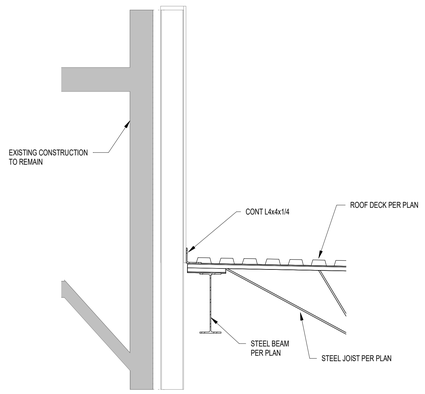

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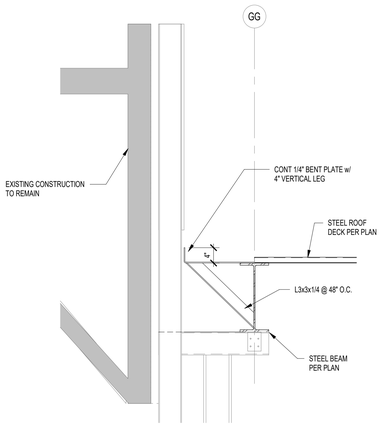

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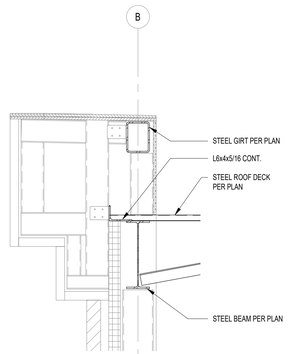

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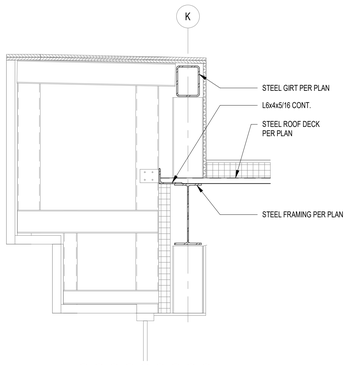

11 S702 SECTION
SCALE: 3/4" = 1'-0"

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Lynch, Harrison & Brumleve, Inc.

PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 S Marr Rd
Columbus, Indiana 47201

SCOPE DRAWINGS:
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REVISIONS:
1 Addendum #3 11/10/25

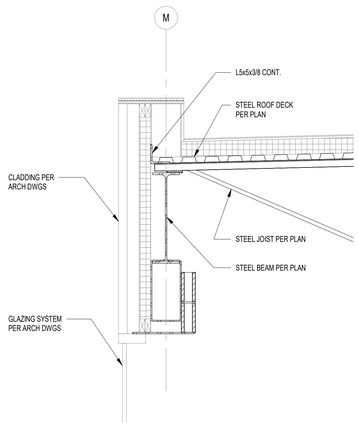
ISSUE DATE	DRAWN BY	CHECKED BY
10/24/25	NMA/JRO	MDL

DRAWING TITLE:
FRAMING SECTIONS AND DETAILS

CERTIFIED BY:
MARK D. LAVIER
REGISTERED
PE19400114
STATE OF
INDIANA
PROFESSIONAL ENGINEER

DRAWING NUMBER
S702

PROJECT NUMBER
2025022



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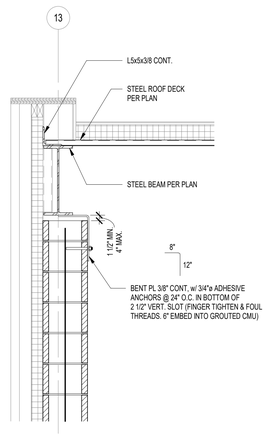

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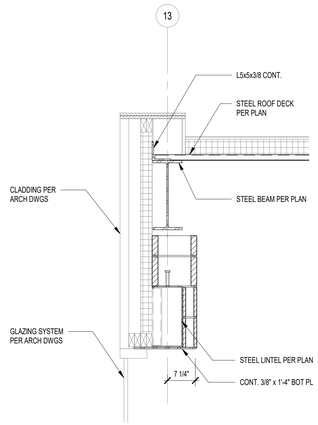

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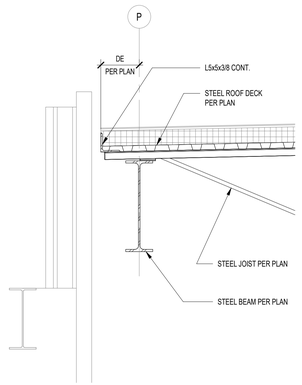

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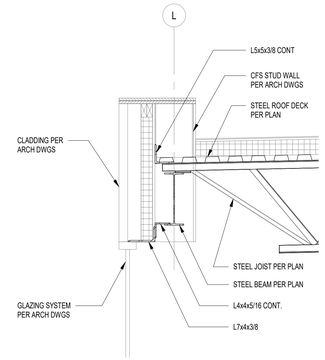

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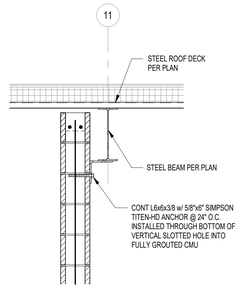

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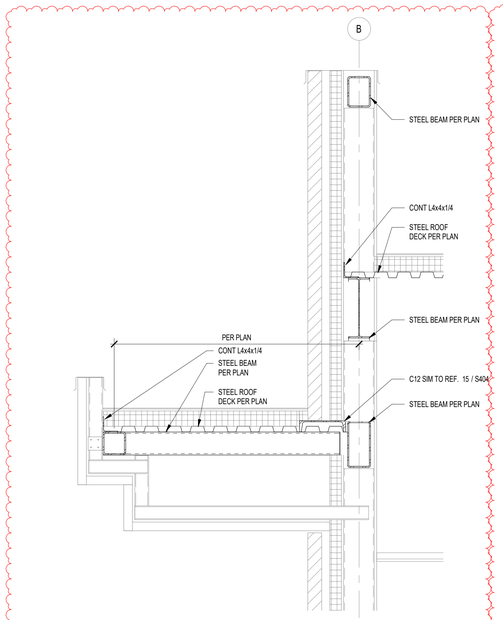

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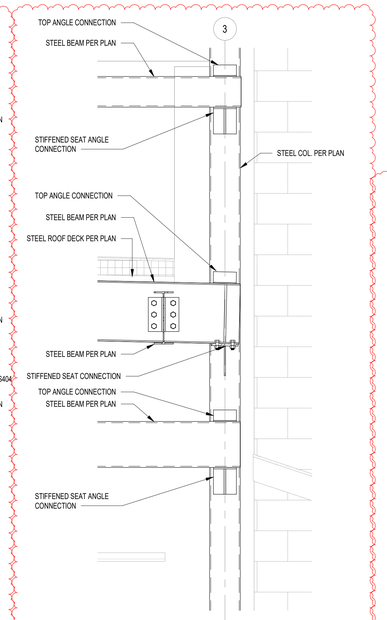

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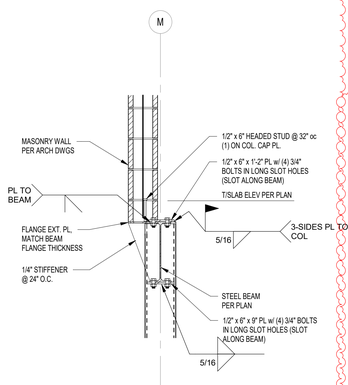

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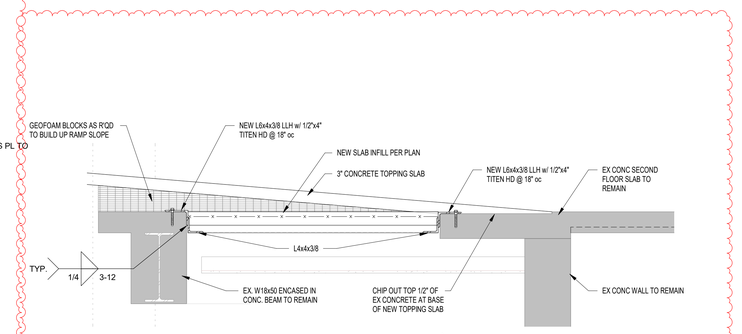

10 S703 SECTION
SCALE: 3/4" = 1'-0" 1

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Lynch, Harrison & Brumleve, Inc.

PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 S Marr Rd
Columbus, Indiana 47201

SCOPE DRAWINGS:
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REVISIONS:
1 Addendum #3 11/10/25

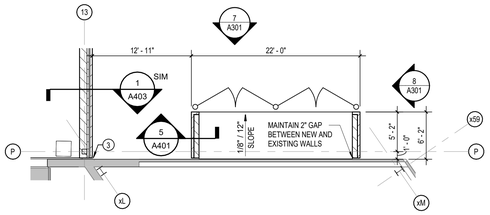
ISSUE DATE	DRAWN BY	CHECKED BY
10/24/25	NMA/URO	MDL

DRAWING TITLE:
FRAMING SECTIONS AND DETAILS

CERTIFIED BY:
MARK D. LaVIER
REGISTERED
PE19400114
STATE OF
INDIANA
PROFESSIONAL ENGINEER

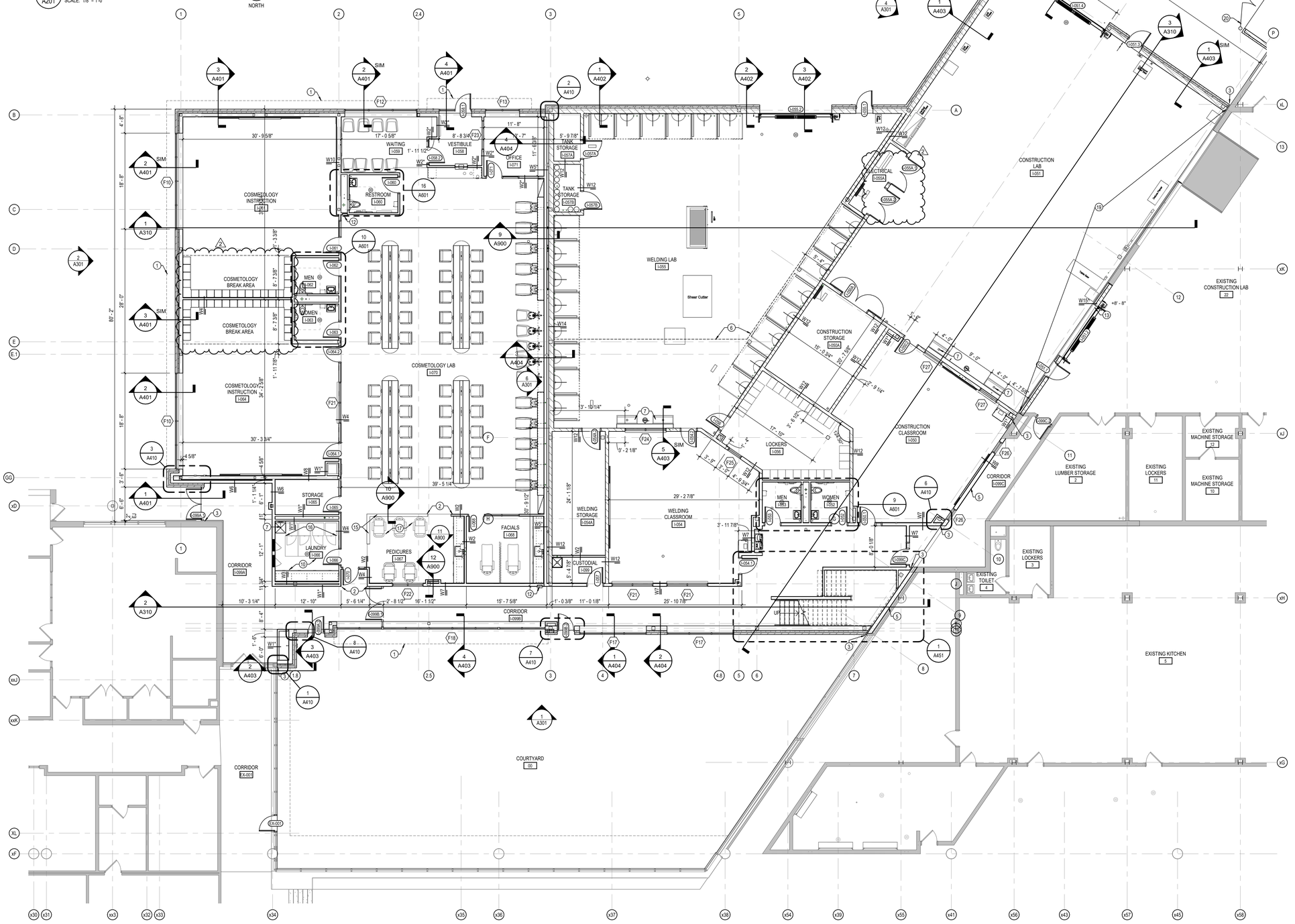
DRAWING NUMBER
S703

PROJECT NUMBER
2025022



2 A201 DUMPSTER ENCLOSURE PLAN
SCALE: 1/8" = 1'-0"

NORTH



1 A201 FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

A. COORDINATE THE WORK OF EACH TRADE WITH THE WORK OF OTHER TRADES.
B. ALL WORK IS TO BE COMPLETED IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, RULES, REGULATIONS AND STANDARDS INCLUDING, BUT NOT LIMITED TO THOSE LISTED ON THE COVER SHEET. ALL APPLICABLE RULES & REGULATIONS ARE TO BE THE MOST CURRENT ADOPTED EDITIONS.
C. FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO THE COMMENCEMENT OF WORK. DISCREPANCIES BETWEEN THE DOCUMENTS AND THE ACTUAL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE COMMENCEMENT OF WORK.
D. ALL DIMENSIONS ARE FROM CENTERLINE OF STRUCTURE, FINISH FACE OF WALL, FACE OF MASONRY, OR FACE OF EXISTING.
E. ANY DIMENSIONS NOT SHOWN OR DEEMED QUESTIONABLE ARE TO BE VERIFIED BY ARCHITECT. DO NOT SCALE DRAWINGS.
F. REFER TO WALL TYPE SCHEDULE, SHEET A200, TO DETERMINE WHICH WALLS EXTEND TO DECK. SEE STRUCTURAL FOR TOP SUPPORT DETAIL. WHERE METAL STUDS EXTEND TO DECK, PROVIDE SLIP CONNECTIONS FOR ROOF/ FLOOR DEFLECTION.
G. ALL STEEL STUDS ARE TO BE BRACED ACCORDING TO MANUFACTURER LIMIT HEIGHT (L/240).
H. WHERE INSULATED OR SOUND WALLS EXTEND TO DECK, FILL DECK FLUTES WITH INSULATION/ SOUND ATTENUATION.
I. REFER TO PLUMBING PLANS FOR LOCATION OF FLOOR DRAINS.
J. WHERE ACCESS PANELS ARE SHOWN IN TOILET ROOM CHASES, FINAL LOCATION SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION.
K. ALL CONCRETE MASONRY UNITS (CMU) SHALL BE LAID RUNNING BOND U.N.O. CMU WALLS THAT DO NOT LAY OUT IN FULL OR HALF LENGTHS SHOULD BE BALANCED SO AS NOT TO HAVE ANY PIECES LESS THAN 4" IN SIZE EXPOSED TO VIEW.
L. ALL INTERIOR MASONRY WALLS THAT RUN TO UNDERSIDE OF DECK ABOVE SHALL HAVE A 2" JOINT (U.N.O.) AT THE DECK TO BE FILLED WITH FIRE STOPPING AT RATED WALLS PER PROJECT MANUAL, AND MINERAL WOOL AT THE NON-RATED WALLS TO ALLOW FOR DEFLECTION.
M. THERE SHALL BE PERIMETER INSULATION CONTINUOUS AROUND THE ENTIRE PERIMETER OF THE BUILDING EXTENDING 2'-0" MINIMUM (R-15 MIN.) HORIZONTAL.
N. PROVIDE MISCELLANEOUS SUPPORT FOR ALL CEILING SUSPENDED ITEMS.
O. DOOR AND FRAME NUMBERS CORRESPOND TO ROOM NUMBERS. WHERE MORE THAN ONE DOOR OCCURS IN A ROOM, A SUFFIX HAS BEEN ADDED (E.G. A100-1). SEE A500 SERIES DRAWINGS FOR DOOR SCHEDULE AND DETAILS.
P. ALL DOOR FRAMES SHALL BE LOCATED 4" OFF FINISH WALLS OR 4" OFF MASONRY WALLS UNLESS NOTED OTHERWISE.
Q. ALL GLASS AT INTERIOR DOOR FRAMES, DOOR LITES AND WINDOW FRAMES IS TO BE 1/4" CLEAR TEMPERED GLASS UNLESS NOTED OTHERWISE.
R. AT BUILDING EXPANSION JOINTS, ALL PARTITIONS, CEILINGS, FLOORS AND ALL WALL FLOOR OR CEILING MOUNTED ITEMS SHALL BE ANCHORED TO THE BUILDING STRUCTURE ON ONLY ONE SIDE OF THE EXPANSIONS JOINTS. CONTRACTOR SHALL COORDINATE CONSTRUCTION OR INSTALLATION OF ALL ITEMS NOTED TO ASSURE THAT NO SUCH ITEMS BRIDGE ACCROSS THE EXPANSION JOINT.
S. ALL SLAB-ON-GRADE CONTROL JOINTS TO BE CLEANED AND CAULKED PRIOR TO PLACEMENT OF FLOOR FINISH.
T. SEE REFLECTED CEILING PLANS FOR BULKHEAD LOCATIONS AND DETAILS.
U. REFER TO MECHANICAL DRAWINGS FOR WALL LOUVER LOCATIONS, SIZES AND QUANTITIES.
V. SEE A800 SERIES DRAWINGS FOR FINISH SCHEDULE AND PLANS.
W. SEE A900 SERIES DRAWINGS FOR EQUIPMENT SCHEDULE AND PLANS. PROVIDE BLOCKING IN STUD WALLS AND/OR GROUTED MASONRY CORES AS REQUIRED TO SUPPORT EQUIPMENT.
X. PROVIDE FIRE RESISTANT TREATED WOOD BLOCKING SUPPORTS AS REQUIRED FOR ALL SURFACE MOUNTED ITEMS.
Y. WHERE DISIMILAR FLOOR MATERIALS MEET, THEY SHALL DO SO UNDER THE CENTERLINE OF THE DOOR UNLESS NOTED OTHERWISE.
Z. APPLY SEALANT AT ALL JUNCTURES BETWEEN DIFFERENT MATERIALS (E.G. MASONRY TO GYPSUM WALL BOARD) UTILIZING THE APPROPRIATE TYPE PER SPECIFICATIONS. COLOR TO BE SELECTED BY ARCHITECT.
AA. APPLY SEALANT AT ALL COUNTERTOPS AND BLACKSPLASHES AT JUNCTURE WITH WALL.
AB. ALL DOORS MUST BE INSTALLED WITH AT LEAST THE MINIMUM MANEUVERING CLEARANCE AT THE DOOR APPROACH PER THE MOST CURRENT AMERICANS WITH DISABILITIES ACT.
AC. BASE FLOOR ELEVATION INDICATED FOR THIS PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USGS DATUM.

PLAN NOTES

1 LINE OF CANOPY ABOVE
2 ALIGN FINISH FACE
3 2" EXPANSION JOINT COVER
4 MOP SINK, WALL TO RECEIVE 48" HIGH FRP PANEL. FINISH 2'-0" MIN. FROM EDGE OF SINK. PROVIDE TRIM AT CUT EDGES AND PANEL TERMINATIONS.
5 INFILL EXISITNG OPENING IN WALL WITH NEW STUD CONSTRUCTION. SEE WALL TYPES AND SECTIONS FOR DETAILS
6 LINE OF WALL ABOVE
7 PLUMBING FIXTURE. SEE MEP DRAWINGS
8 STEEL HANDRAILS
9 NOT USED
10 8" ISOLATED SLAB IN THIS ROOM.
11 CONCRETE RAMP 1:12 SLOPE.
12 NEW FIRE EXTINGUISHER CABINET/BRACKET TO BE INSTALLED.
13 INFILL OPENING IN WALL TO MATCH ADJACENT MATERIALS USED. SEE WALL TYPES AND SECTIONS FOR DETAILS.
14 IN WALL RECESSED WATER BOTTLE FILLER
15 SOLID SURFACE WALL CAP. SEE SECTION FOR DETAIL.
16 EXISTING WASHERS AND DRYERS TO BE RELOCATED BY OWNER
17 EXISTING PEDICURE CHAIRS TO BE RELOCATED BY OWNER
18 PREMANUFACTURED ALUMINUM SHIPS LADDER
19 WHERE EXISTING EXTERIOR MASONRY WALL BECOMES AN INTERIOR WALL, PROVIDE MASONRY CLEANING. REFER TO SPECIFICATION 04 01 10
20 DUMPSTER ENCLOSURE. SEE 2/A201 FOR PLAN

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PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 South Marr Road
Columbus, Indiana 47201

SCOPE DRAWINGS:
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REVISIONS:
2 ADDENDUM #3 11-10-2025

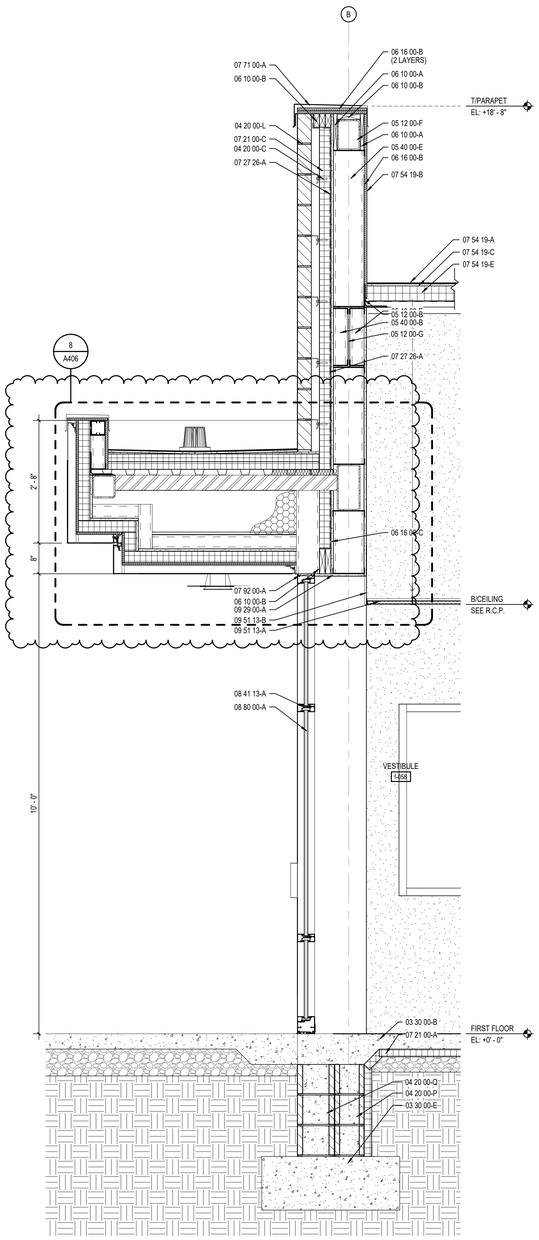
ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	JNC	EGN

DRAWING TITLE:
FIRST FLOOR PLAN

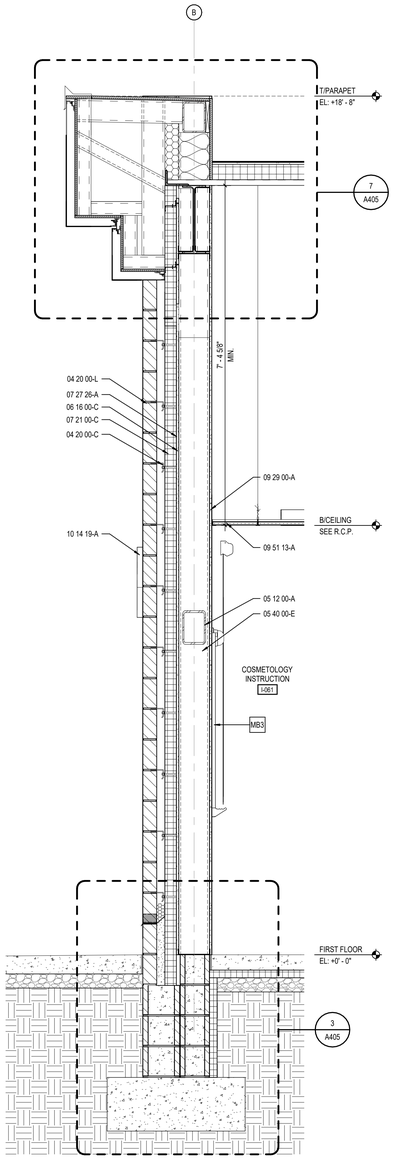
CERTIFIED BY:
JAMES R. CUNY REGISTERED AR09900003 STATE OF INDIANA ARCHITECT

DRAWING NUMBER
A201

PROJECT NUMBER
2025022



4 A401 WALL SECTION
SCALE: 3/4" = 1'-0"



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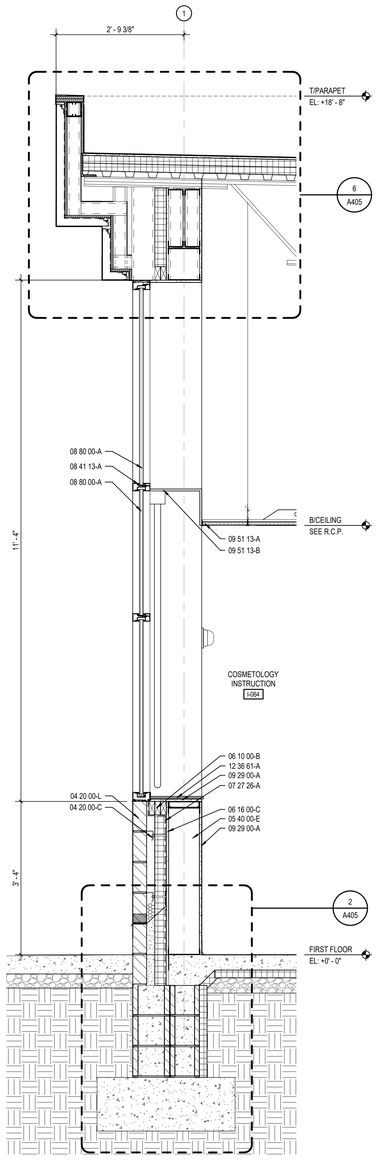

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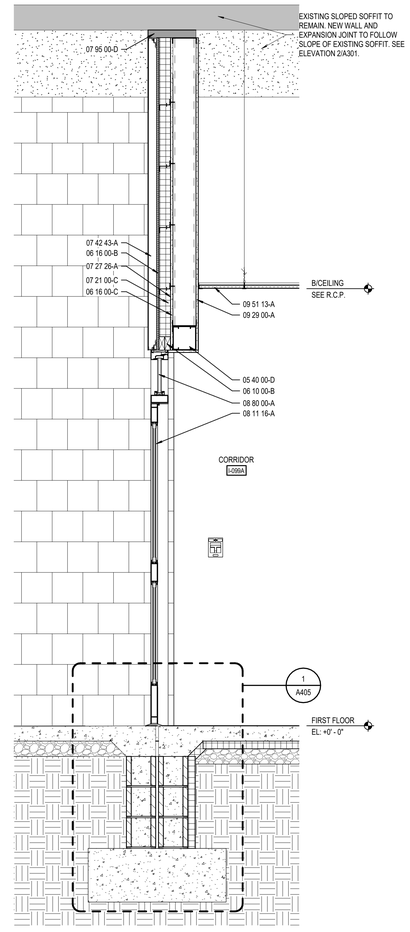

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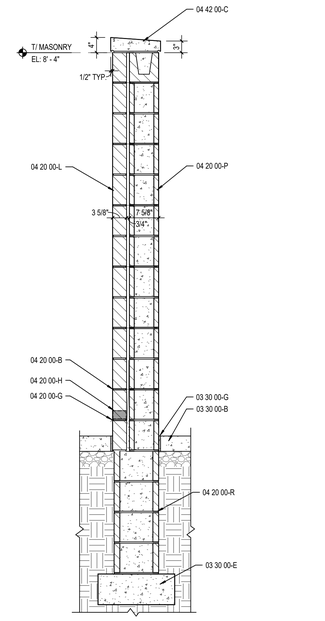

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03 30 00-E	CONCRETE FOOTING- SEE STRUCTURAL
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03 30 00-J	CONCRETE RAMP ON GEOFOAM
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04 20 00-M	4" CONCRETE MASONRY UNIT
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05 51 13-C	STAIR METAL STRINGER- CHANNEL
05 51 13-D	STAIR METAL STRINGER- PLATE
05 51 13-E	CLOSURE PLATE
05 51 13-G	PRE-MANUFACTURED SHIPS LADDER
05 52 13-D	1-1/4" I.D. STAINLESS STEEL HANDRAIL
05 52 13-F	1-1/4" I.D. PAINTED STEEL PIPE HANDRAIL
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06 16 00-B	3/4" EXTERIOR GRADE PLYWOOD
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PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 South Marr Road
Columbus, Indiana 47201

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REVISIONS:
2 ADDENDUM #3 11-10-2025

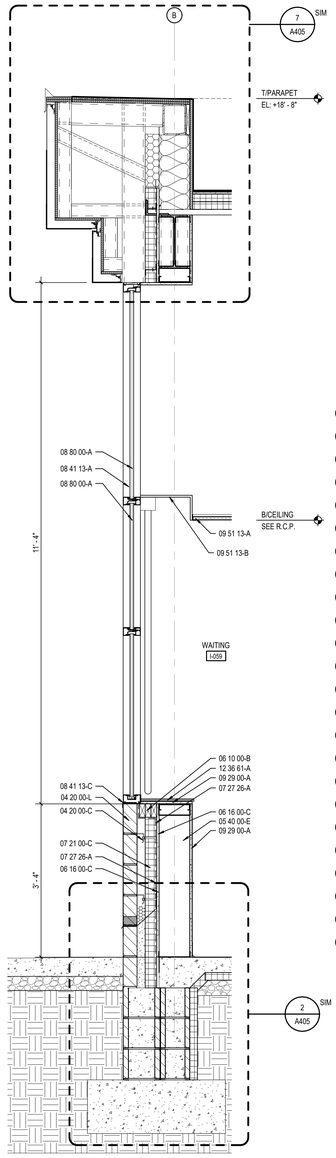
ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	JNC	EDN

DRAWING TITLE:
WALL SECTIONS

CERTIFIED BY:
JAMES R. FUNK REGISTERED AR00900003 STATE OF INDIANA ARCHITECT

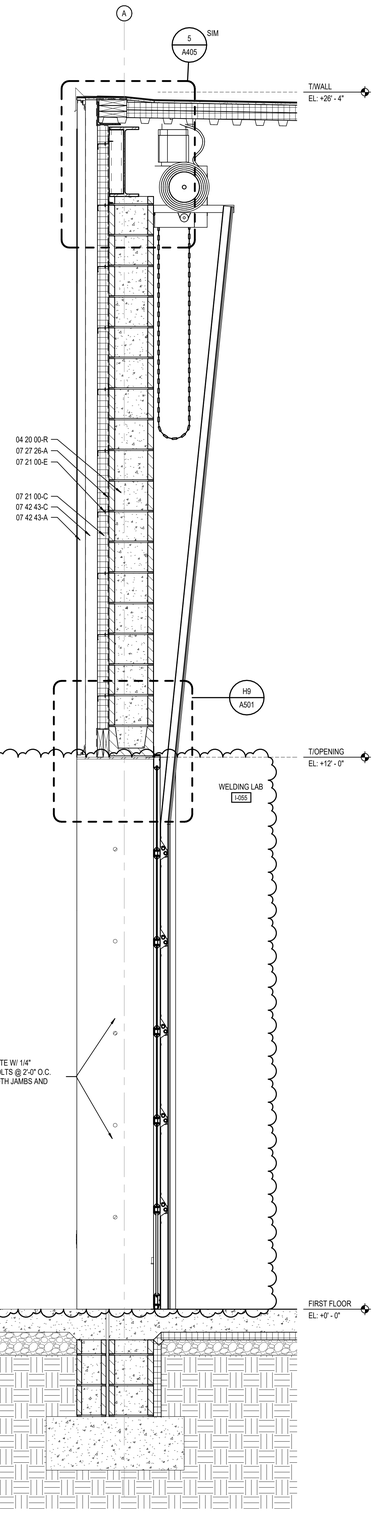
DRAWING NUMBER
A401

PROJECT NUMBER
2025022



4 WALL SECTION

4 / A402 SCALE: 3/4" = 1'-0"



3 WALL SECTION

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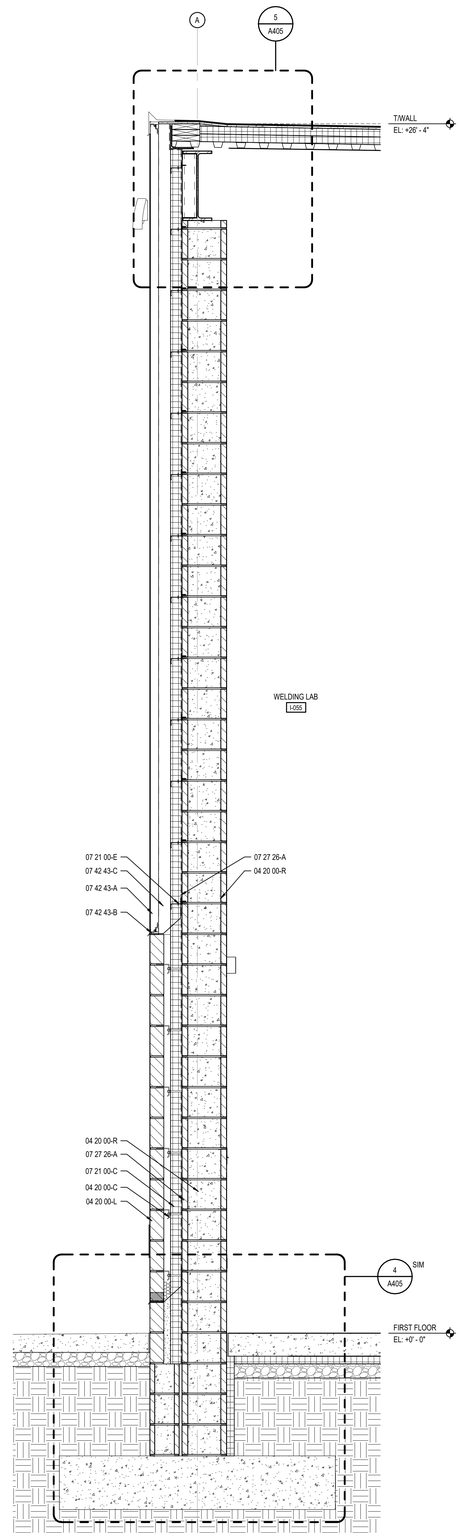

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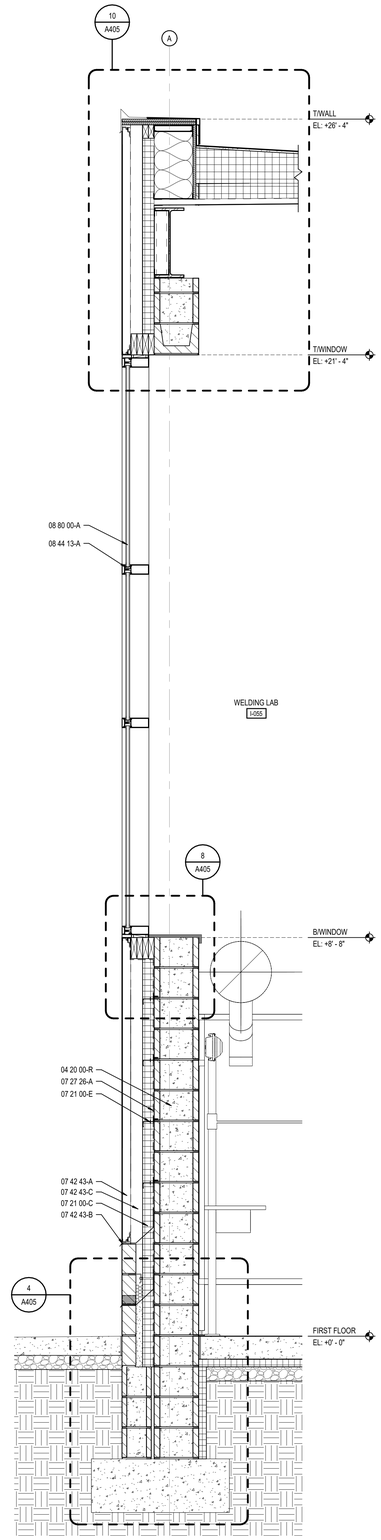

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COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
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REVISIONS:

2	ADDENDUM #3	11-10-2025

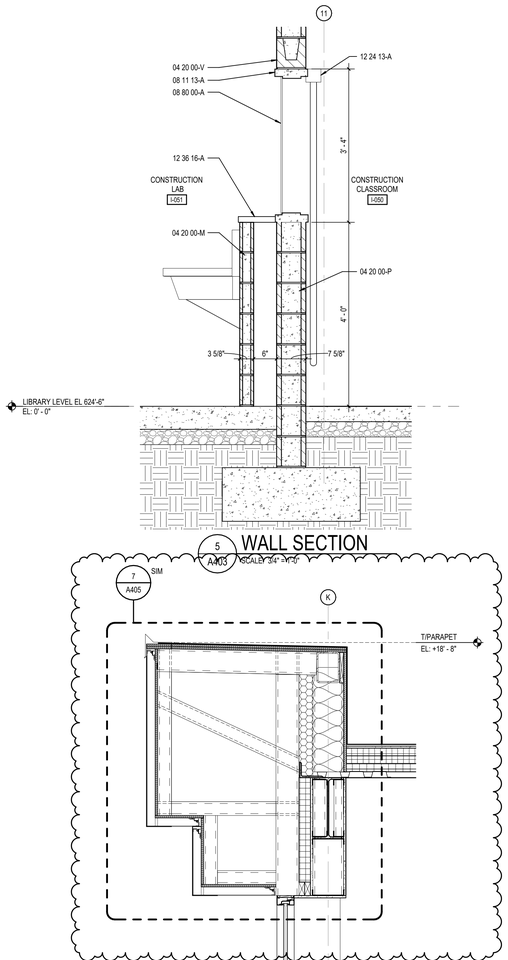
ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	JNC	ECN

DRAWING TITLE:
WALL SECTIONS

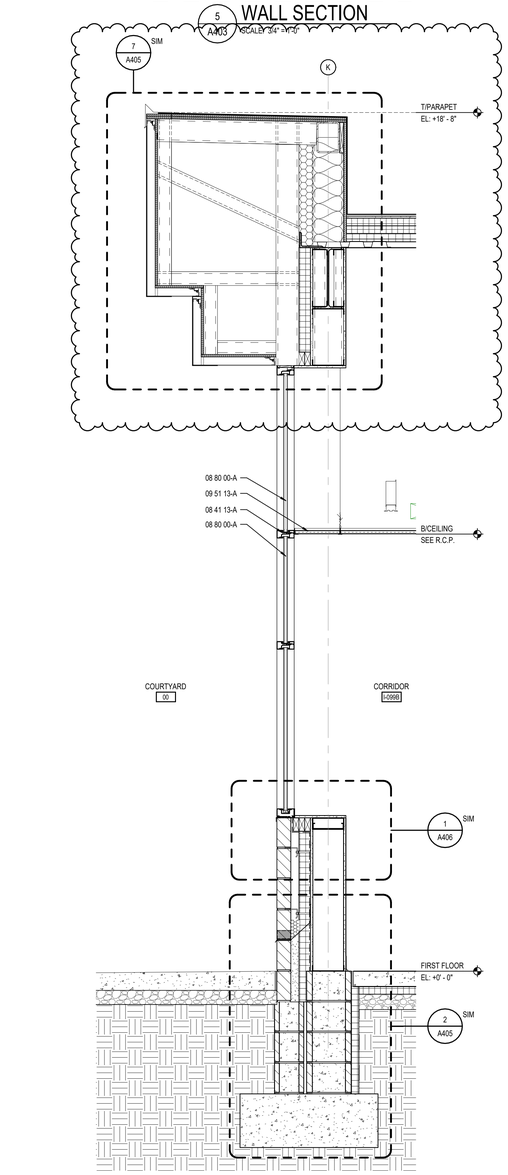
CERTIFIED BY:
JAMES R. FUNK
REGISTERED
AR00900003
STATE OF
INDIANA
ARCHITECT

DRAWING NUMBER
A402

PROJECT NUMBER
2025022



5 A403 WALL SECTION
SCALE: 3/4" = 1'-0"



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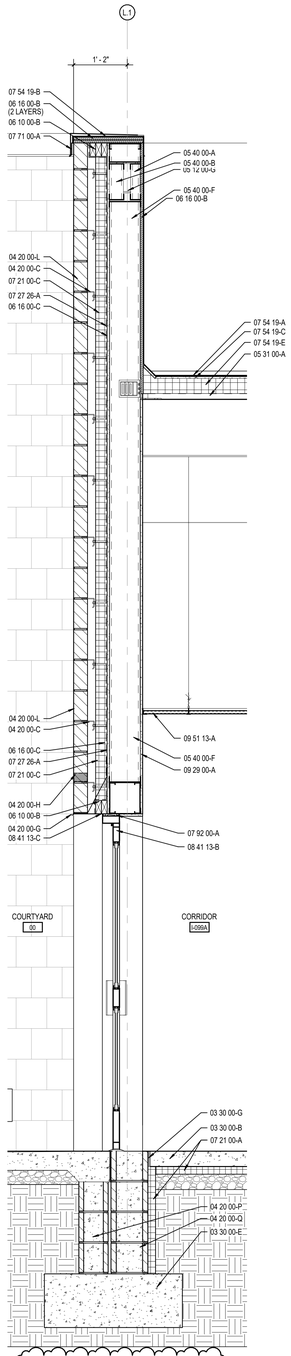

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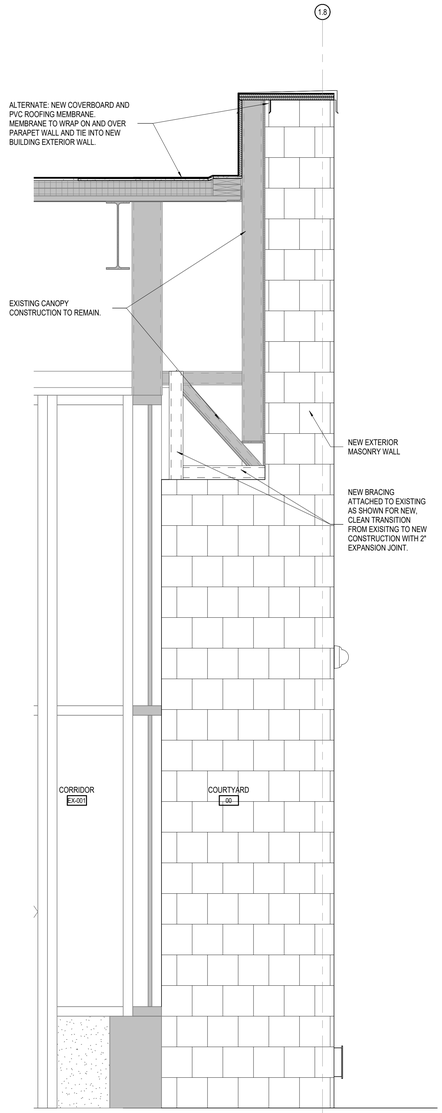

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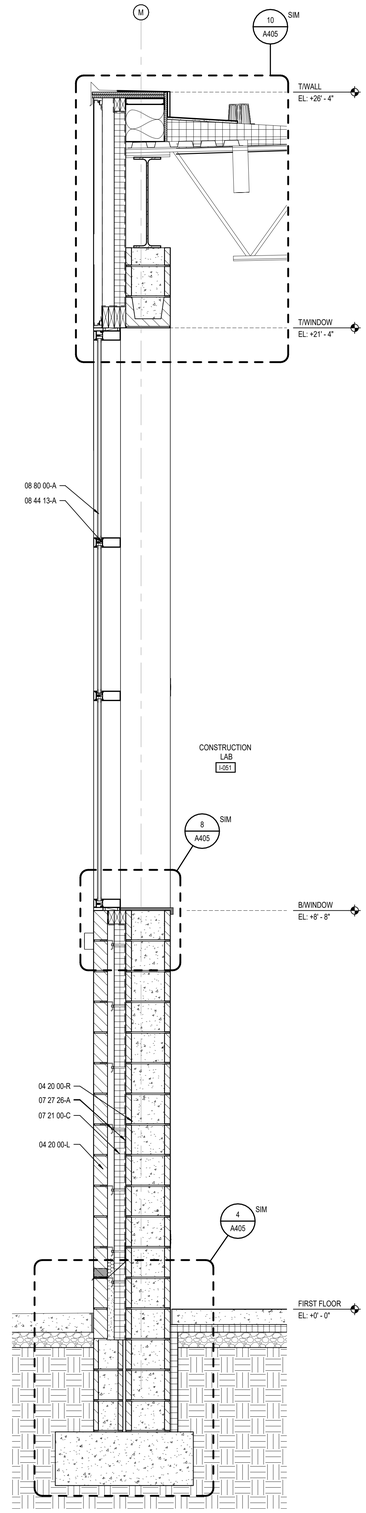

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PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 South Marr Road
Columbus, Indiana 47201

SCOPE DRAWINGS:
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10/24/2025	JNC	ECN

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CERTIFIED BY:
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DRAWING NUMBER
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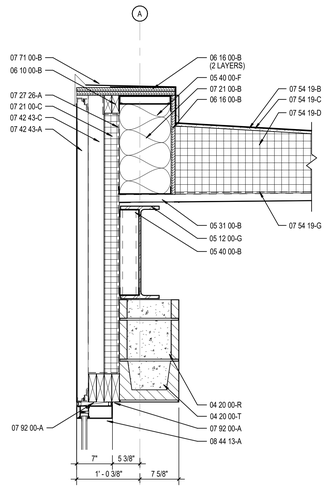

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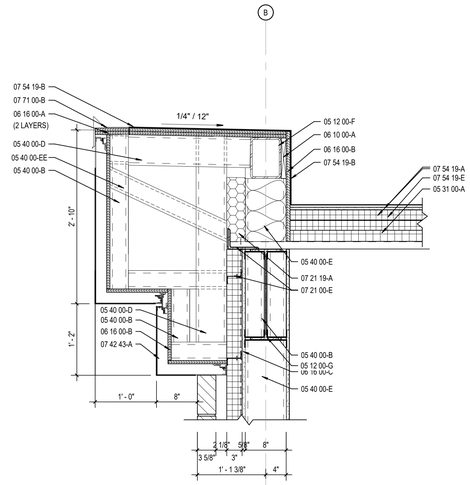

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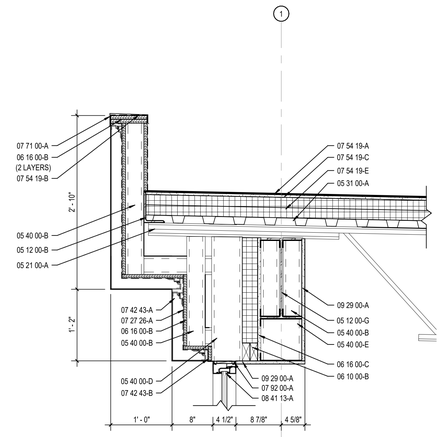

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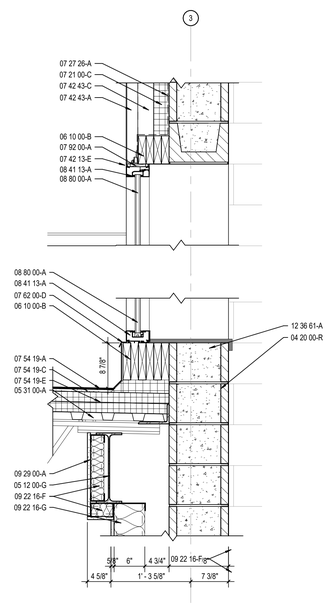

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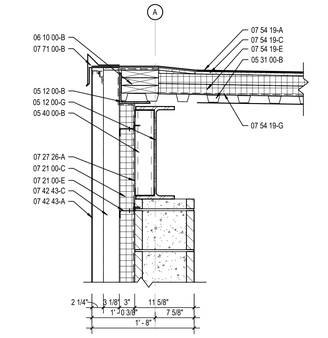

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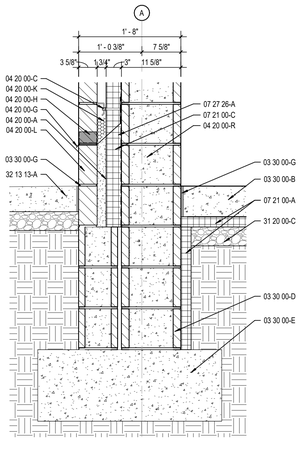

2 4 A405 ENLARGED SECTION DETAIL
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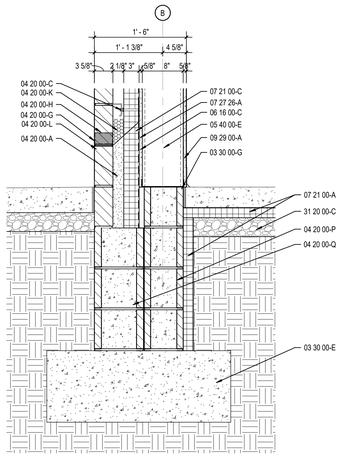

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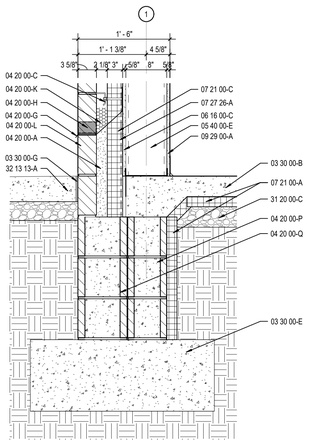

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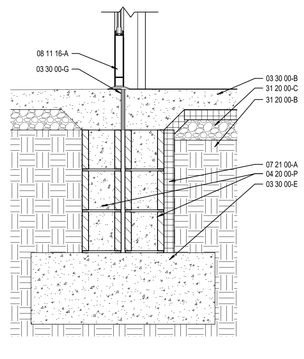

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ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	Author	Checker

DRAWING TITLE:
WALL SECTION DETAILS

CERTIFIED BY:
JAMES R. LUX REGISTERED AR50900003 STATE OF INDIANA ARCHITECT

DRAWING NUMBER
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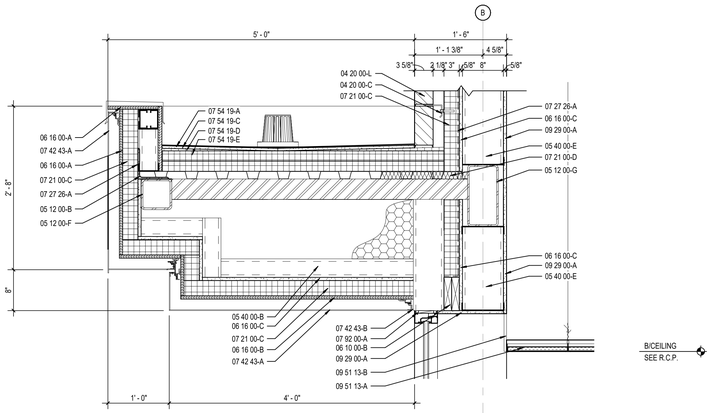

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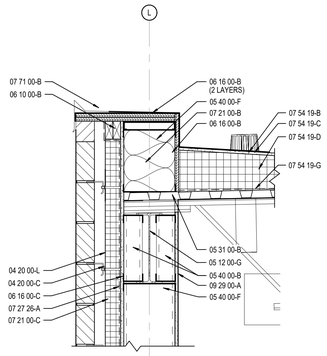
8 A406 ENLARGED SECTION DETAIL

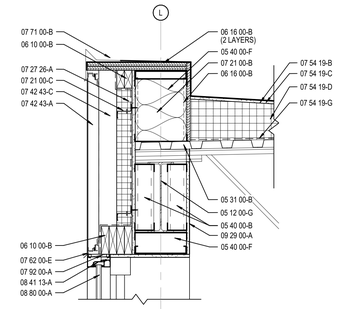
SCALE: 1" = 1'-0"

B/CEILING
SEE R.C.P.



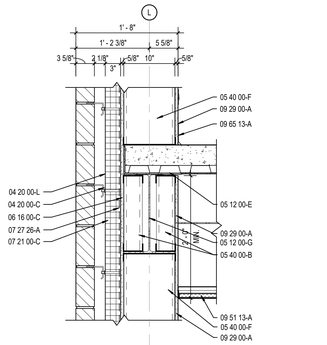
7 A406 ENLARGED SECTION DETAIL

SCALE: 1" = 1'-0"



6 A406 ENLARGED SECTION DETAIL

SCALE: 1" = 1'-0"



5 A406 ENLARGED SECTION DETAIL

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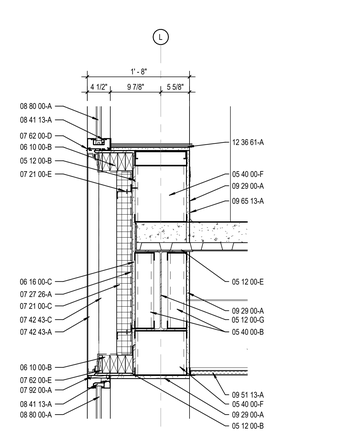

4 A406 ENLARGED SECTION DETAIL

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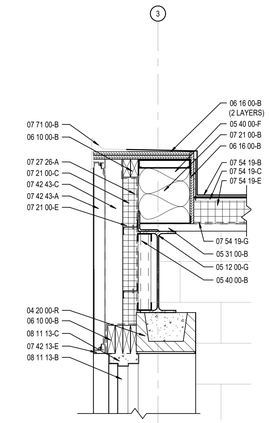

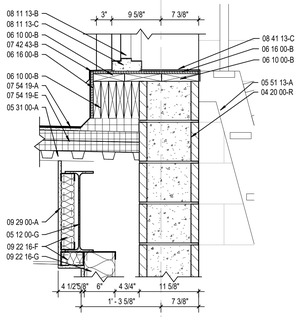

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03 30 00-C	CONCRETE SLAB ON METAL DECK- SEE STRUCTURAL
03 30 00-D	CONCRETE FOUNDATION- SEE STRUCTURAL
03 30 00-E	CONCRETE FOOTING- SEE STRUCTURAL
03 30 00-G	1/2" EXPANSION MATERIAL
03 30 00-H	CONCRETE RAMP ON METAL DECK
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04 20 00-M	4" CONCRETE MASONRY UNIT
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04 20 00-Q	10" CONCRETE MASONRY UNIT
04 20 00-R	12" CONCRETE MASONRY UNIT
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04 20 00-V	BOND BEAM MASONRY LINTEL
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05 51 13-C	STAIR METAL STRINGER- CHANNEL
05 51 13-D	STAIR METAL STRINGER- PLATE
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31 20 00-B	COMPACTED EARTH
31 20 00-C	DRAINING GRANULAR FILL
32 13 13-A	SIDEWALK- SEE CIVIL SHEETS

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PROJECT:

BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL

C⁴ ADDITION

230 South Marr Road
Columbus, Indiana 47201

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, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

2	ADDENDUM #3	11-10-2025

ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	JNC	ECN

DRAWING TITLE:

WALL SECTION DETAILS

CERTIFIED BY:

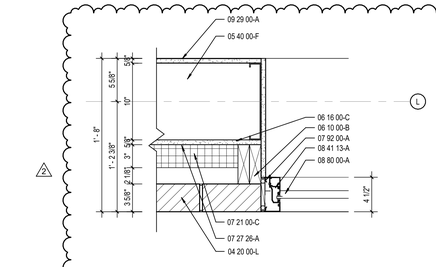
JAMES R. LUX
REGISTERED
AR50900003
STATE OF
INDIANA
ARCHITECT

DRAWING NUMBER

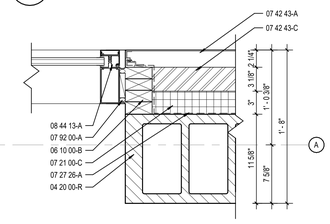
A406

PROJECT NUMBER

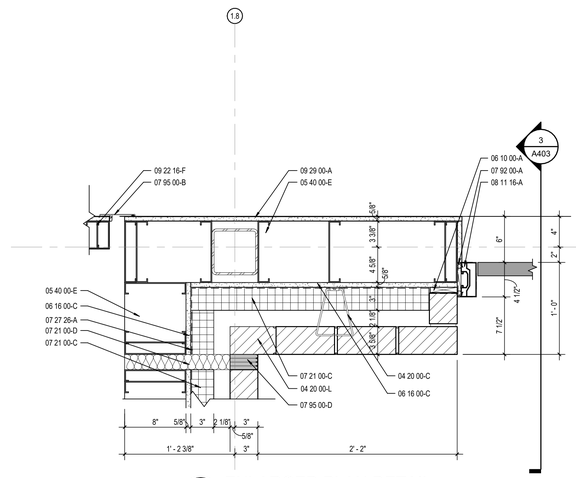
2025022



10 A410 ENLARGED PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



9 A410 ENLARGED PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



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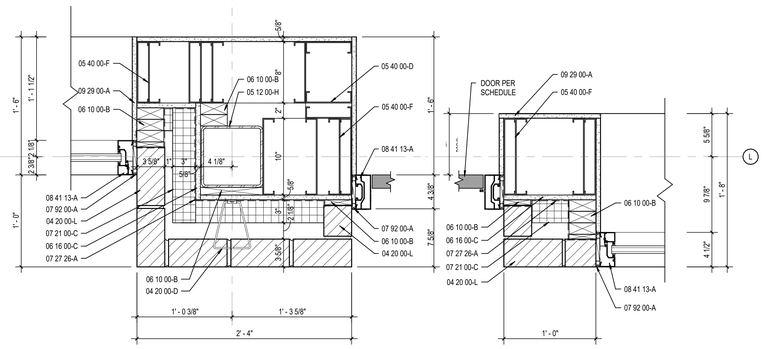
SCALE: 1 1/2" = 1'-0"



7 A410 ENLARGED PLAN DETAIL
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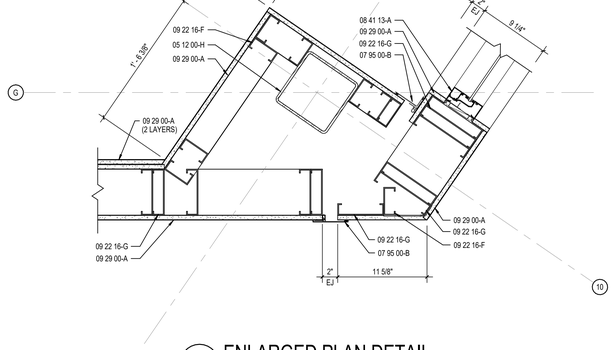

6 A410 ENLARGED PLAN DETAIL
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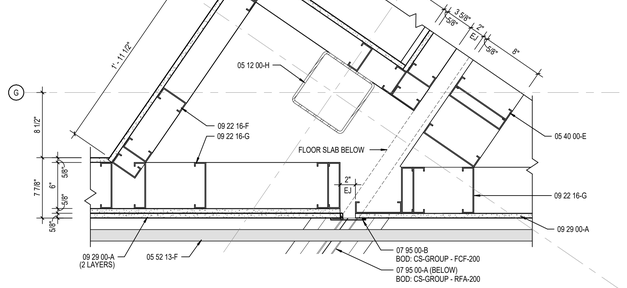

5 A410 ENLARGED PLAN DETAIL
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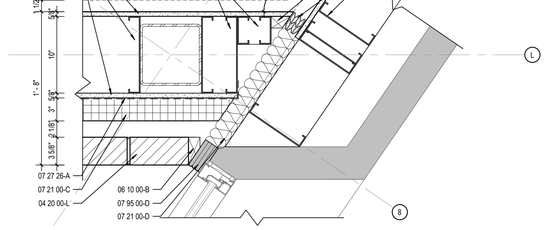
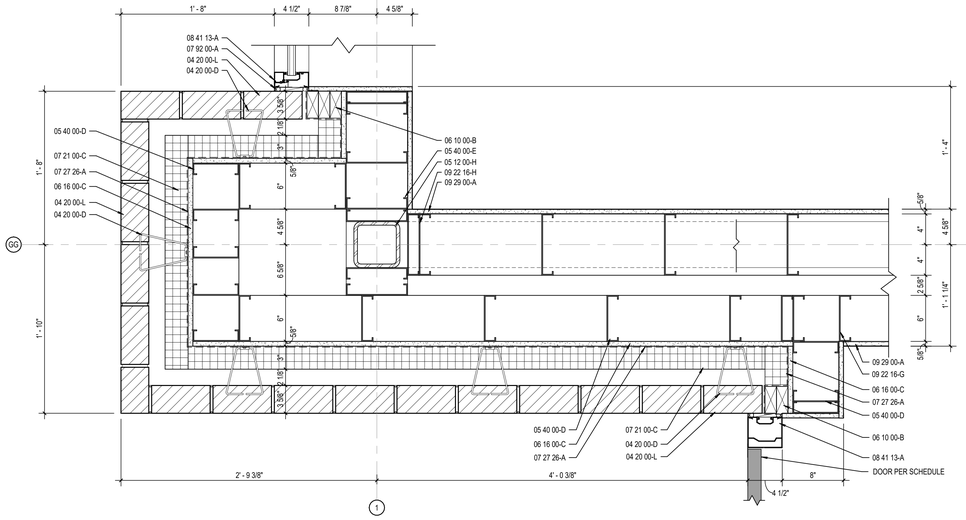


4 A410 ENLARGED PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



3 A410 ENLARGED PLAN DETAIL
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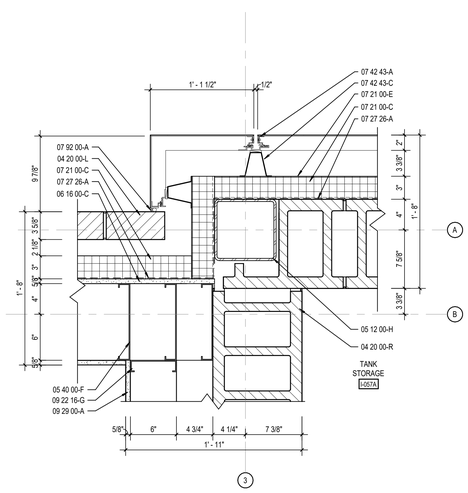

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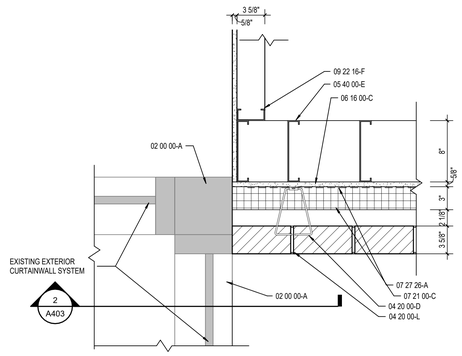

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PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 South Marr Road
Columbus, Indiana 47201

SCOPE DRAWINGS:
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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 11-10-2025

ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	JNC	EGN

DRAWING TITLE:
PLAN DETAILS

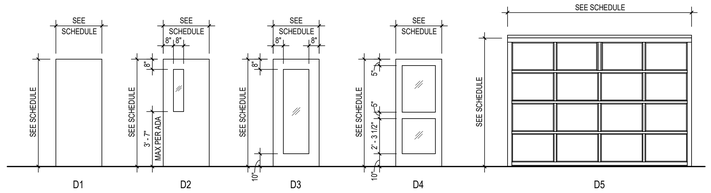
CERTIFIED BY:
JAMES R. FUNK
REGISTERED
AR00900003
STATE OF
INDIANA
ARCHITECT

DRAWING NUMBER
A410

PROJECT NUMBER
2025022

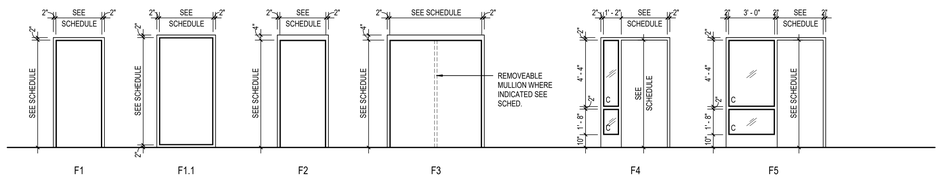
DOOR AND FRAME SCHEDULE

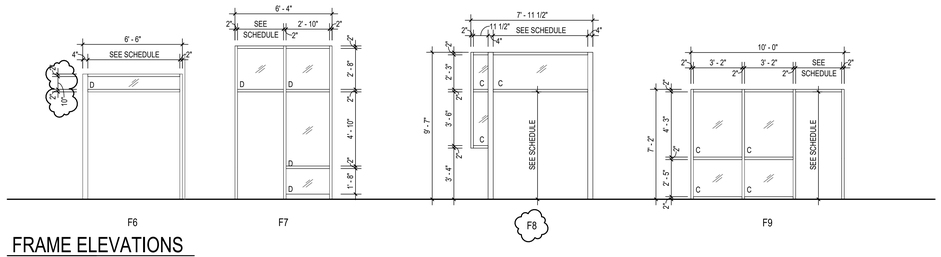
DOOR								FRAME					DETAIL					
	SIZE																	
MARK	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	ELEVATION	GLASS	MATERIAL	FINISH	ELEVATION	GLASS	HEAD	JAMB	SILL	UL RATING	STC RATING	REMARKS
EX-001	SGL	3' - 0"	8' - 4"	1 3/4"	AL	AN	D4	A	AL	EX	EX	EX	EX	EX	-	-	-
I-050.1	SGL	3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F4	C	H4	J4	S2	-	-	-
I-050.2	SGL	3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	-	HM	PT	F2	-	H6	J6	S2	-	-	-
I-050A	PAIR	3' - 0"	7' - 0"	1 3/4"	HM	PT	D1	-	HM	PT	F3	-	H6	J6	S2	-	-	-
I-051.1	SGL	3' - 0"	7' - 0"	1 3/4"	HM	PT	D2	C	HM	PT	F2	-	H7	J10	S3	-	-	-
I-051.2	OSD	12' - 0"	10' - 0"	2"	AL	AN	D5	C	STL	GSTL	-	-	H9	J10	3/A402	-	-	-
I-051.3	SGL	3' - 0"	7' - 0"	1 3/4"	HM	PT	D1	-	HM	PT	F2	-	H8	J10	S3	-	-	1
I-051.4	OSD	12' - 0"	10' - 0"	2"	AL	AN	D5	C	STL	GSTL	-	-	H9	J10	3/A402	-	-	-
I-052	SGL	3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F1	-	H2	J2	S2	-	-	-
I-053	SGL	3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F1	-	H2	J2	S2	-	-	-
I-054.1	SGL	3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F1	-	H1	J1	S2	-	-	-
I-054.2	SGL	3' - 0"	7' - 0"	1 3/4"	HM	PT	D1	-	HM	PT	F2	-	H6	J6	S2	-	-	-
I-054A.2	SGL	3' - 6"	7' - 0"	1 3/4"	HM	PT	D1	-	HM	PT	F2	-	H6	J6	S2	-	-	-
I-055.1	SGL	3' - 0"	7' - 0"	1 3/4"	HM	PT	D1	-	HM	PT	F2	-	H8	J10	S3	-	-	1
I-055.2	OSD	12' - 0"	10' - 0"	2"	AL	AN	D5	C	STL	GSTL	-	-	H9	J10	3/A402	-	-	-
I-055A.1	PAIR	3' - 0"	7' - 0"	1 3/4"	HM	PT	D1	-	HM	PT	F3	-	H6	J6	S2	-	-	-
I-055A.2	PAIR	3' - 0"	7' - 0"	1 3/4"	HM	PT	D1	-	HM	PT	F3	-	H6	J6	S2	-	-	-
I-056	SGL	3' - 0"	7' - 0"	1 3/4"	HM	PT	D1	-	HM	PT	F2	-	H6	J6	S2	-	-	-
I-057	SGL	3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F1	-	H2	J2	S2	-	-	-
I-057A	SGL	3' - 6"	7' - 0"	1 3/4"	HM	PT	D1	-	HM	PT	F2	-	H6	J6	S2	45 MIN.	-	-
I-057B	SGL	3' - 6"	7' - 0"	1 3/4"	HM	PT	D1	-	HM	PT	F2	-	H6	J6	S2	45 MIN.	-	-
I-058.1	SGL	3' - 0"	7' - 0"	1 3/4"	AL	AN	D4	A	AL	AN	F7	A	2/A405	3/A410	S3	-	-	1, 4
I-058.2	SGL	3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	D	HM	PT	F4	D	H3	J3	S2	-	-	1, 4
I-058.4	SGL	3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F2	-	H1	J1	S2	-	-	-
I-060	SGL	3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F1	-	H1	J1	S2	-	-	-
I-061	SGL	3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F5	C	H4	J4	S2	-	-	-
I-062	SGL	3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F1	-	H2	J2	S2	-	-	-
I-063	SGL	3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F1	-	H2	J2	S2	-	-	-
I-064.1	SGL	3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F1	-	H2	J2	S2	-	-	-
I-064.2	SGL	3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F1	-	H2	J2	S2	-	-	-
I-065	SGL	3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F1	-	H2	J2	S2	-	-	-
I-066	SGL	3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F1	-	H2	J2	S2	-	-	-
I-068	SGL	3' - 0"	7' - 0"	1 3/4"	AL	AN	D3	C	AL	AN	F9	C	H5	J5	S2, S4	-	-	-
I-070	SGL	3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F4	C	H3	J3	S2	-	-	-
I-071	SGL	3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F5	C	H3	J3	S2	-	-	-
I-099A.1	PAIR	3' - 0"	7' - 0"	1 3/4"	AL	AN	D4	A	AL	AN	F6	A	1/A401	3/A410	S3	-	-	1
I-099A.2	SGL	3' - 0"	7' - 0"	1 3/4"	AL	AN	D4	A	AL	AN	F1	-	3/A401	3/A410	S3	-	-	-
I-099B.1	PAIR	3' - 1"	7' - 0"	1 3/4"	AL	AN	D4	C	AL	AN	F8	C	H3	J9	S2	-	-	-
I-099B.2	SGL	3' - 0"	7' - 2"	1 3/4"	AL	AN	D4	A	AL	AN	F1	-	H3	J9	S3	-	-	-
I-099C	SGL	3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F4	C	H4	J4	S2	-	-	-
I-099C.2	SGL	3' - 0"	7' - 0"	1 3/4"	HM	PT	D2	-	HM	PT	F2	-	H6	J6	S2	-	-	-
I-150.1	SGL	3' - 6"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F2	-	H6	J6	S2	-	-	-
I-150.3	PAIR	3' - 0"	7' - 0"	1 3/4"	HM	PT	D1	-	HM	PT	F3	-	H6	J6	S2	-	-	-
I-151.1	SGL	3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F4	C	H2	J4	S2	-	-	-
I-152	SGL	3' - 6"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F2	-	H2	J2	S2	-	-	-
I-152A.1	SGL	3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F2	-	H2	J2	S2	-	-	-
I-152A.2	SGL	3' - 6"	6' - 0"	1 3/4"	HM	PT	D1	-	HM	PT	F1.1	-	3/A405	J11	3/A402	-	-	3



DOOR ELEVATIONS

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





FRAME ELEVATIONS

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

GLASS SCHEDULE

A. 1" THICK TEMPERED, LOW E, INSULATING GLAZING WITH 2 PANES 1/4" GLASS AND 1/2" AIRSPACE.
B. 1" THICK LAMINATED SPANDREL GLASS, LOW E, INSULATING GLAZING (1/4" GLASS + 1/2" AIRSPACE + 1/4" SPANDREL GLASS)
C. 5/16" LAMINATED CLEAR GLASS.
D. SAFETY GLAZING

ABBREVIATIONS LEGEND

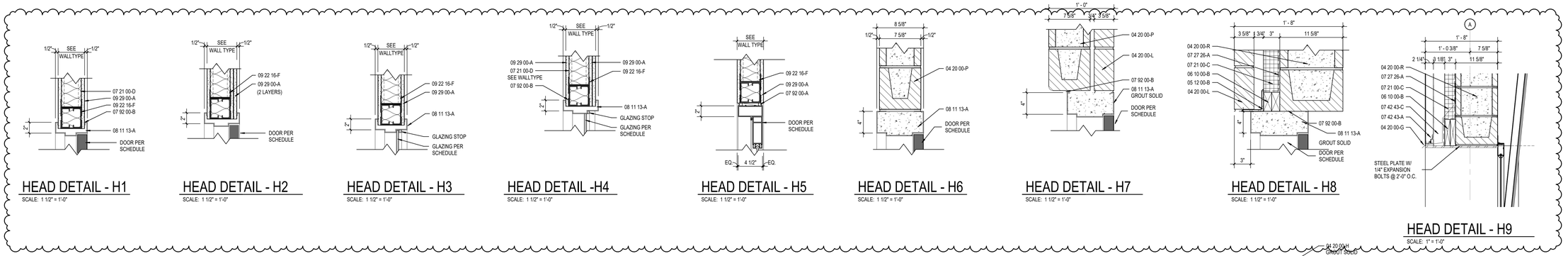
AL = ALUMINUM
AN = ANODIZED
BL = BORROWED LITE
GHM = GALVANNEALED HOLLOW METAL
GL = GLASS
GSTL = GALVANIZED STEEL
HM = HOLLOW METAL
PT = PAINT
ST = STAIN
SS = STAINLESS STEEL
STL = STEEL
WD = WOOD
90M = 90 MINUTE ASSEMBLY RATING
* = SEE REMARKS COLUMN FOR NOTES

GENERAL DOOR NOTES

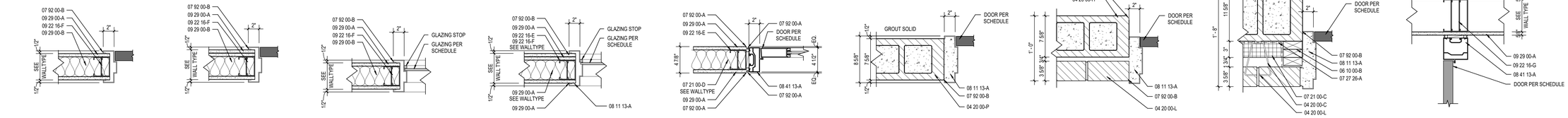
A. THESE GENERAL NOTES APPLY TO THE DOOR SCHEDULE.
B. DOOR AND FRAME NUMBERS CORRESPOND TO RESPECTIVE ROOM NUMBER. IN ROOMS WITH MULTIPLE OPENINGS, A NUMERICAL SUFFIX HAS BEEN ADDED TO DOOR NUMBERS.
C. VERTICAL FRAMING MEMBERS AT ALL DOOR FRAMES SHALL EXTEND TO STRUCTURE ABOVE.
D. UNDERCUT ALL DOORS AS REQUIRED BY FINAL FINISH.
E. PROVIDE CONTINUOUS SEALANT BETWEEN HOLLOW METAL FRAME PERIMETERS AND SURROUNDING WALL CONSTRUCTION.
F. PROVIDE CONTINUOUS SEALANT BETWEEN INTERIOR AND EXTERIOR WINDOW, CURTAINWALL AND STOREFRONT FRAME PERIMETERS AND SURROUNDING CONSTRUCTION UNLESS NOTED OTHERWISE.
G. GROUT FULL HOLLOW METAL FRAMES IN MASONRY CONSTRUCTION.
H. SPOT GROUT HOLLOW METAL FRAMES IN GYPSUM WALLS.
I. WHERE A FIRE RATING IS INDICATED ON THE DOOR SCHEDULE, HARDWARE AND DOOR ASSEMBLY COMPONENTS SHALL MEET THE REQUIREMENTS OF THAT LABEL.
J. WHERE AN STC RATING IS INDICATED ON THE DOOR SCHEDULE, HARDWARE AND DOOR ASSEMBLY COMPONENTS SHALL MEET THE REQUIREMENTS OF THAT LABEL.
K. INSTALL DOOR GLASS USING WET GLAZING METHOD.
L. ALL LINTELS ABOVE EXTERIOR OPENINGS SHALL BE GALVANIZED.
M. REFER TO SHEETS AXXX & AXXX FOR ADDITIONAL DOOR, FRAME AND BORROWED LITE ELEVATIONS.
N. COORDINATE THROAT OPENINGS WITH WALL WIDTH FOR ALL WRAP AROUND FRAMES.
O. SCHEDULED HARDWARE FOR ALUMINUM DOORS SHALL BE PROVIDED BY HARDWARE SUPPLIER AND INSTALLED BY ALUMINUM SUPPLIER. ALUMINUM DOORS TO BE PREPARED BY ALUMINUM DOOR SUPPLIER IN ACCORDANCE WITH THE SCHEDULED HARDWARE.
P. ALL NEW HOLLOW METAL DOORS, FRAMES AND BORROWED LITE FRAMES TO BE PAINTED AS INDICATED ON THE A800 SERIES FINISH PLANS. SEE FINISH PLANS FOR WOOD DOOR FINISHES.
Q. PROVIDE SILENCERS ON ALL DOOR FRAMES.
R. SEE STRUCTURAL DRAWINGS FOR REQUIREMENTS FOR MASONRY AND STEEL LINTELS. PROVIDE STRUCTURAL STEEL LINTELS AT OPENINGS OPENINGS WHERE INDICATED ON THE STRUCTURAL STEEL DRAWINGS IN LIEU OF MASONRY LINTEL AS SHOWN IN THESE DETAILS.
S. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION OF DOORS AND FRAMES. BRING DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT.

DOOR NOTES

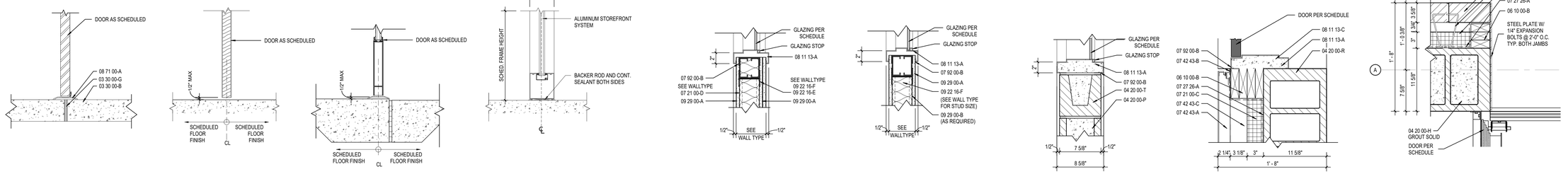
1. DOOR TO RECEIVE CARD READER
2. DOOR TO RECEIVE SOUND SEAL
3. ROOF ACCESS DOOR TO BE A FOUR SIDE HOLLOW METAL FRAME DOOR
4. DOOR AND FRAME GLAZING TO RECEIVE SECURITY GLAZING FILM. FILM TO BE OWNER PROVIDED, CONTRACTOR INSTALLED.



HEAD DETAIL - H1 — SCALE: 1 1/2" = 1'-0"
HEAD DETAIL - H2 — SCALE: 1 1/2" = 1'-0"
HEAD DETAIL - H3 — SCALE: 1 1/2" = 1'-0"
HEAD DETAIL -H4 — SCALE: 1 1/2" = 1'-0"
HEAD DETAIL - H5 — SCALE: 1 1/2" = 1'-0"
HEAD DETAIL - H6 — SCALE: 1 1/2" = 1'-0"
HEAD DETAIL - H7 — SCALE: 1 1/2" = 1'-0"
HEAD DETAIL - H8 — SCALE: 1 1/2" = 1'-0"
HEAD DETAIL - H9 — SCALE: 1" = 1'-0"



JAMB DETAIL - J1 — SCALE: 1 1/2" = 1'-0"
JAMB DETAIL - J2 — SCALE: 1 1/2" = 1'-0"
JAMB DETAIL - J3 — SCALE: 1 1/2" = 1'-0"
JAMB DETAIL - J4 — SCALE: 1 1/2" = 1'-0"
JAMB DETAIL - J5 — SCALE: 1 1/2" = 1'-0"
JAMB DETAIL - J6 — SCALE: 1 1/2" = 1'-0"
JAMB DETAIL - J7 — SCALE: 1 1/2" = 1'-0"
JAMB DETAIL - J8 — SCALE: 1 1/2" = 1'-0"
JAMB DETAIL - J9 — SCALE: 1 1/2" = 1'-0"



SILL DETAIL - S1 — SCALE: 1 1/2" = 1'-0"
SILL DETAIL - S2 — SCALE: 1 1/2" = 1'-0"
SILL DETAIL - 3 — SCALE: 1 1/2" = 1'-0"
SILL DETAIL - S4 — SCALE: 1 1/2" = 1'-0"
SILL DETAIL - S5 — SCALE: 1 1/2" = 1'-0"
SILL DETAIL - S6 — SCALE: 1 1/2" = 1'-0"
SILL DETAIL - S7 — SCALE: 1 1/2" = 1'-0"
JAMB DETAIL - J11 — SCALE: 1 1/2" = 1'-0"
JAMB DETAIL - J10 — SCALE: 1 1/2" = 1'-0"

BCSC TOGETHER WE LEARN

S CSO
8831 Keystone Crossing, Indianapolis, IN 46240
317.848.7800 | csoinc.net

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PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 South Marr Road
Columbus, Indiana 47201

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, the lowte contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:
2 ADDENDUM #3 11-10-2025

ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	JNC	ECN

DRAWING TITLE:
DOOR SCHEDULE AND ELEVATIONS

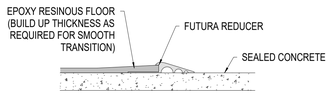
CERTIFIED BY:
JAMES R. LUX REGISTERED AR00900003 STATE OF INDIANA ARCHITECT

DRAWING NUMBER
A501

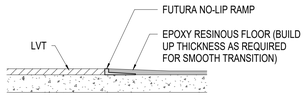
PROJECT NUMBER
2025022

FLOOR TRANSITION DETAILS

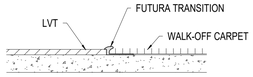
EPOXY RESINOUS FLOOR TO CONCRETE



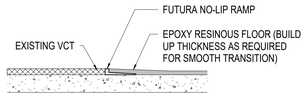
LVT TO EPOXY RESINOUS FLOOR



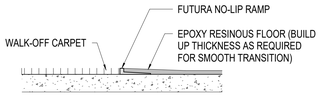
LVT TO WALK-OFF CARPET



EXISTING VCT TO EPOXY RESINOUS FLOOR

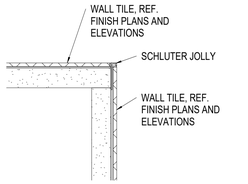


WALK-OFF CARPET TO EPOXY RESINOUS FLOOR

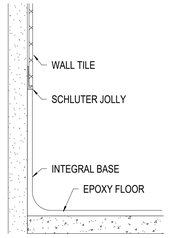


WALL TRANSITION DETAILS

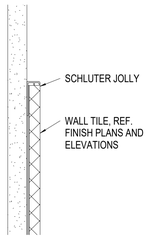
WALL TILE CORNER



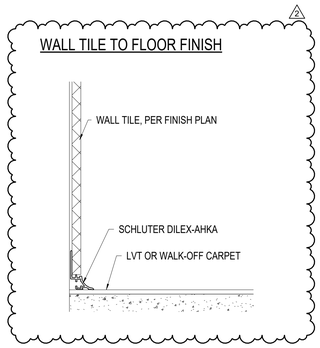
WALL TILE WITH EPOXY BASE



WALL TILE EDGE



WALL TILE TO FLOOR FINISH



FINISH LEGEND

FLOOR FINISHES

WALK-OFF CARPET

WOC — MFR: MANNINGTON; STYLE: FRIXTION, FORCE; COLOR: VECTOR (14362); SIZE: 18" x 36"; INSTALL: BRICK ASHLAR; LOCATION: VESTIBULE

LUXURY VINYL TILE

LVT1 — MFR: PATCRAFT; STYLE: HEELSTONE; COLOR: GRIGIO-V2 00500; SIZE: 18" X 36", 5.0 MM; INSTALL: BRICK; LOCATION: COSMETOLOGY LAB, COSMETOLOGY CLASSROOM

LVT2 — MFR: SHAW CONTRACT; STYLE: BRANCHING OUT; COLOR: TRAVERSE OAK 56760; SIZE: 7" X 48", 5.0 MM; INSTALL: ASHLAR; LOCATION: COSMETOLOGY CLASSROOM

LVT3 — MFR: SHAW CONTRACT; STYLE: FUNCTION 5.0MM; COLOR: V2 PEBBLE 86504; SIZE: 18" X 18"; INSTALL: ASHLAR; LOCATION: AG CLASSROOM

SEALED CONCRETE

SC1 — TYPE: SEALED CONCRETE; LOCATION: WELDING LAB, CONSTRUCTION LAB; NOTE: SEE SPECS

EPOXY RESINOUS FLOORING

EF1 — MFR: SHERWIN WILLIAMS; PRODUCT: DECO QUARTZ; COLOR: CATERPILLAR; LOCATION: COSMETOLOGY RESTROOMS, LAUNDRY

EF2 — MFR: FLAKE; PRODUCT: FULL REJECTION, DOUBLE BROADCAST; COLOR: STONEY CREEK; LOCATION: CORRIDORS, WELDING CLASSROOM, CONSTRUCTION CLASSROOM, AG CLASSROOM, RESTROOMS

RUBBER TILE

RF1 — MFR: ROPPE; STYLE: RUBBER TILE; COLOR: 129 DOLPHIN; SIZE: 24" X 24"; LOCATION: STAIR LANDING; NOTE: HAMMERED

RUBBER TREAD/RISER

TR1 — MFR: ROPPE; STYLE: INTEGRAL RUBBER STAIR TREADS W/ RISER; COLOR: 129 DOLPHIN; NOTE: #95 HAMMERED

EXISTING TO REMAIN

ETR — EXISTING TO REMAIN

WALL BASE

RUBBER BASE

B1 — MFR: ROPPE; STYLE: 4" RUBBER COVE; COLOR: 129 DOLPHIN

EPOXY BASE

EB1 — MFR: MATCH (EF1); STYLE: INTEGRAL COVE; COLOR: MATCH (EF1); SIZE: 4" H

EB2 — MFR: MATCH (EF2); STYLE: INTEGRAL COVE; COLOR: MATCH (EF2); SIZE: 4" H

WALL FINISHES

EPOXY PAINT

EP1 — MFR: BENJAMIN MOORE; COLOR: OC-118 SNOWFALL WHITE; NOTE: GENERAL PAINT

EP2 — MFR: BENJAMIN MOORE; COLOR: 1473 GRAY HUSKIE; NOTE: NEUTRAL ACCENT

EP3 — MFR: SHERWIN WILLIAMS; COLOR: SW0001 MULBERRY SILK; NOTE: LIGHT BROWN ACCENT

EP4 — MFR: BENJAMIN MOORE; COLOR: OHC-168 CHELSEA GRAY; NOTE: HM DOORS & FRAMES

EP5 — MFR: SHERWIN WILLIAMS; COLOR: SW7069 IRON ORE; NOTE: EXPOSED STRUCTURE

PAINT

P1 — MFR: BENJAMIN MOORE; COLOR: OC-118 SNOWFALL WHITE; NOTE: GENERAL PAINT

P2 — MFR: BENJAMIN MOORE; COLOR: 1473 GRAY HUSKIE; NOTE: NEUTRAL ACCENT

P3 — MFR: BENJAMIN MOORE; COLOR: OASIS BLUE 2049-20; NOTE: TEAL ACCENT

P4 — MFR: SHERWIN WILLIAMS; COLOR: SW7069 IRON-ORE; NOTE: EXPOSED STRUCTURE

P5 — MFR: BENJAMIN MOORE; COLOR: OHC-168 CHELSEA GRAY; NOTE: DECK, EXPOSED MEP

P6 — MFR: SHERWIN WILLIAMS; COLOR: SW0001 MULBERRY SILK; NOTE: LIGHT BROWN ACCENT

WALL FINISHES

WALL TILE

WT1 — MFR: PLATFORM SURFACES; STYLE: VISION; COLOR: TAUPE; SIZE: 12" X 24"; INSTALL: VERTICAL STACKED; LOCATION: COSMETOLOGY RESTROOMS

WT2 — MFR: TILE BAR; STYLE: PAINT; COLOR: TERRACOTTA; SIZE: 3" X 16"; INSTALL: VERTICAL 1/3 OFFSET; LOCATION: COSMETOLOGY RESTROOMS

WT3 — MFR: PLATFORM SURFACES; STYLE: CARAMELLA; COLOR: SOFT BROWN GLOSSY; SIZE: 12" X 12"; INSTALL: VERTICAL STACKED; LOCATION: PEDICURES, FACIALS, WATER FOUNTAINS

WT4 — MFR: DALTILE; STYLE: RIGID CLAY; COLOR: SALT RC10 MATTE; SIZE: 12" X 24"; INSTALL: HORIZONTAL STACKED; LOCATION: COSMETOLOGY

WT5 — MFR: LOUISVILLE TILE - PORTOBELLO; STYLE: WATERCOLOR; COLOR: ULTRAMARINE; SIZE: 4" X 16"; INSTALL: VERTICAL STACKED; LOCATION: COSMETOLOGY, CONSTRUCTION RESTROOMS

WT6 — MFR: PLATFORM SURFACES; STYLE: COVE; COLOR: COAST; SIZE: 12" X 24"; INSTALL: VERTICAL STACKED; LOCATION: RESTROOMS

WT7 — MFR: MILE STONE; STYLE: NATIVE; COLOR: BIRCH; SIZE: 8" X 48"; INSTALL: HORIZONTAL 1/3 OFFSET; LOCATION: AG CLASSROOM (2)

WT8 — MFR: LOUISVILLE TILE - CROSSVILLE; STYLE: LAMINAM; COLOR: OXIDE 3+ BIANCO; SIZE: 1M X 3M; INSTALL: VERTICAL, MONOLITHIC; LOCATION: COSMETOLOGY

CASEWORK AND COUNTERTOPS

PLASTIC LAMINATE

PL1 — MFR: FORMICA; COLOR: ASHWOOD BEIGE; FINISH: NATURAL GRAIN TEXTURE; LOCATION: GENERAL CASEWORK

SOLID SURFACE

SS1 — MFR: FORMICA; COLOR: 757 LUNA SAND; EDGE: EASED; LOCATION: COSMETOLOGY GENERAL COUNTERTOP, COSMETOLOGY WINDOW STOOLS

SS2 — MFR: CORIAN; COLOR: NEUTRAL CONCRETE; EDGE: EASED; LOCATION: COUNTERTOP, COSMETOLOGY

SS3 — MFR: STARON; COLOR: VG180 GRIGIO CONCRETE; EDGE: EASED; LOCATION: GENERAL WINDOW STOOLS

STAINLESS STEEL COUNTERTOP

ST1 — TYPE: STAINLESS STEEL; LOCATION: AGRICULTURE LAB; NOTE: SEE SPEC

MISCELLANEOUS

TACK SURFACE

TS1 — MFR: FORBO; COLOR: 2206 OYSTER SHELL; LOCATION: GENERAL TACK

CUBICLE CURTAIN FABRIC

CC1 — MFR: CARNEGIE; STYLE: GRASSLANDS; COLOR: 4834.5; LOCATION: FACIALS

GENERAL FINISH NOTES

A. ANY DISCREPANCIES WITHIN THE DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF CSO ARCHITECTS PRIOR TO INSTALLATION. THESE DOCUMENTS WILL GOVERN OVER PREVIOUS SUPPLEMENTAL DRAWINGS.
B. THE SCHEDULED MATERIALS SHALL NOT BE INSTALLED BEFORE THE CONTRACTOR'S ACTUAL COLOR SUBMITTALS HAVE BEEN APPROVED AS CALLED FOR IN THE SPECIFICATIONS. IF ANY MATERIAL IS INSTALLED BEFORE APPROVAL, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL, REPLACEMENT PURCHASE, AND INSTALLATION OF ALL ERRONEOUS SPECIFICATIONS.
C. ALL SURFACES RECEIVING FINISHES SHALL BE PROPERLY PREPARED PER MANUFACTURERS' SPECIFICATIONS PRIOR TO INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING CONDITIONS.
D. CONTRACTOR RESPONSIBLE FOR PROTECTING INSTALLED SURFACES AND EXISTING FINISHES TO REMAIN DURING CONSTRUCTION. ALL EXISTING TO REMAIN SURACES SHALL BE PROPERLY CLEANED.
E. WHERE DEMOLITION OCCURS, SURFACE TO BE PROPERLY PATCHED AND REPAIRED TO MATCH SURROUNDING SURFACES BEFORE FINISH IS APPLIED.
F. FOR CHANGE IN FLOOR FINISH MATERIALS OF DIFFERENT HEIGHTS, PROVIDE TRANSITION STRIP TO MEET CODE/ADA REQUIREMENTS. IF TRANSITION OCCURS AT DOOR OPENING, TRANSITION TO BE ON CENTER OF DOOR LEAF/PANEL, U.N.O. SEE TRANSITION DETAILS ON A800 FOR ADDITIONAL INFORMATION. ALL TRANSITIONS TO BE SUBMITTED TO ARCHITECT FOR APPROVAL.
G. SEE INTERIOR PAINT SPECIFICATIONS FOR SCHEDULE OF COATING TYPE PER SUBSTRATE AND SHEEN. CONTRACTOR TO PROVIDE CRISP, CLEAN LINES BETWEEN ALL PAINT TRANSITIONS.
H. ALL CMU TO RECEIVE HIGH PERFORMANCE COATINGS (EP).
I. DO NOT PAINT INTERIOR BRICK, ROUGH FACE CMU, OR OTHER FACTORY FINISHED ITEMS, U.N.O.
J. PAINT WALLS BEFORE INSTALLING MARKER BOARDS, TACKBOARDS, OR OTHER WALL-MOUNTED EQUIPMENT.
K. ALL WALL-MOUNTED GRILLES, METAL PANELS, MISC. METALS, ETC. ARE TO BE PAINTED TO MATCH THE ADJACENT WALL FINISH, U.N.O.
L. ALL EXPOSED STRUCTURAL ELEMENTS TO BE PAINTED (P4/P5), U.N.O. REFER TO REFLECTED CEILING PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
M. ALL METAL STAIR COMPONENTS, INCLUDING RAILINGS, STRINGERS, AND RISERS TO BE PAINTED (EP4), U.N.O. DO NOT PAINT ANODIZED ALUMINUM OR FACTORY FINISHED METALS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
N. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF ALL FLOOR AND TILE PATTERNS PRIOR TO INSTALLATION FOR DESIGNER APPROVAL.
O. ALL GWB SOFFITS/BULKHEADS' FACES AND UNDERSIDES TO BE PAINTED TO MATCH ADJACENT WALLS, U.N.O. SEE REFLECTED CEILING PLANS AND SPECIFICATIONS FOR ALL CEILING MATERIALS, THEIR LOCATIONS, AND FURTHER INFORMATION.
P. ALL NEW AND EXISTING HOLLOW METALS DOORS & FRAMES TO BE PAINTED (EP4), U.N.O. EXTERIOR HOLLOW METAL DOORS & FRAMES TO BE PAINTED (EP4) ON INTERIOR SIDE AND EXTERIOR SIDE TO BE PAINTED TO MATCH EXISTING.
Q. WOOD DOORS TO MATCH EXISTING SPECIES AND STAIN. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
R. FOR CORNER GUARDS, REFER TO SPECIFICATIONS AND A900 SERIES FOR INFORMATION AND LOCATIONS. COLORS TO BE SELECTED FROM MANUFACTURER'S FULL RANGE U.N.O. IN EQUIPMENT SCHEDULE. CORNER GUARDS TO BE APPLIED TO GWB ONLY.
S. ALL TACK SURFACES TO BE (TS1), U.N.O. SEE SPECIFICATIONS AND A900 SERIES FOR ADDITIONAL INFORMATION.
T. ALL WINDOW STOOLS TO BE SOLID SURFACE (SS3), U.N.O. REFER TO A400 SERIES FOR WINDOW SECTIONS AND DETAILS.
U. WHERE WALL TILE OCCURS, ALL OUTSIDE CORNERS AND EXPOSED TILE EDGES ARE TO BE TRIMMED WITH SCHLUTER JOLLY IN BRUSHED STAINLESS STEEL FINISH. SEE WALL TRANSITION DETAILS ON A800.
V. WALL TILE TO BE INSTALLED WITH THE MINIMUM RECOMMENDED GROUT THICKNESS. GROUT COLORS TO BE SELECTED FROM MANUFACTURER'S FULL RANGE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
W. METAL LOCKER COLORS TO BE SELECTED FROM MANUFACTURER'S FULL RANGE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
X. EXPOSED VERTICAL STRUCTURE TO BE PAINTED (EP5.)

FINISH TAG KEY

XXX — FLOOR FINISH
XX — BASE FINISH
XX — WALL FINISH
XXX / XXX — HORIZONTAL FINISH (COUNTERTOP) / VERTICAL FINISH (CASEWORK)
XXX — COUNTERTOP, CASEWORK OR MISCELLANEOUS FINISH ONLY REFER TO FINISH LEGEND
XX — ACCENT WALL FINISH
FLOORING INSTALL DIRECTION

FINISH PLAN NOTES

F1 WALLS INDICATED TO RECEIVE HIGH TEMPERATURE SEALANT; ALL OTHER WALLS IN ROOM TO RECEIVE EPOXY BASE AT SEALANT TO WALL BASE
F2 ROOM TO RECEIVE SAME FINISHES AS ADJACENT ROOM. (2)
F3 FLOORING TRANSITION TO ALIGN W/ CORNER OF WALL
F4 WINDOW STOOLS TO BE SOLID SURFACE (SS1)
F5 PAINT DOOR/ DOOR FRAME TO MATCH ADJACENT WALL
F6 WALLS TO RECEIVE EPOXY PAINT (EP1) (2)
F7 SEE DETAILS '3/900' AND '5/900' FOR PAINT INFORMATION.

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PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 South Marr Road
Columbus, Indiana 47201

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, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:
2 ADDENDUM #3 11-10-2025

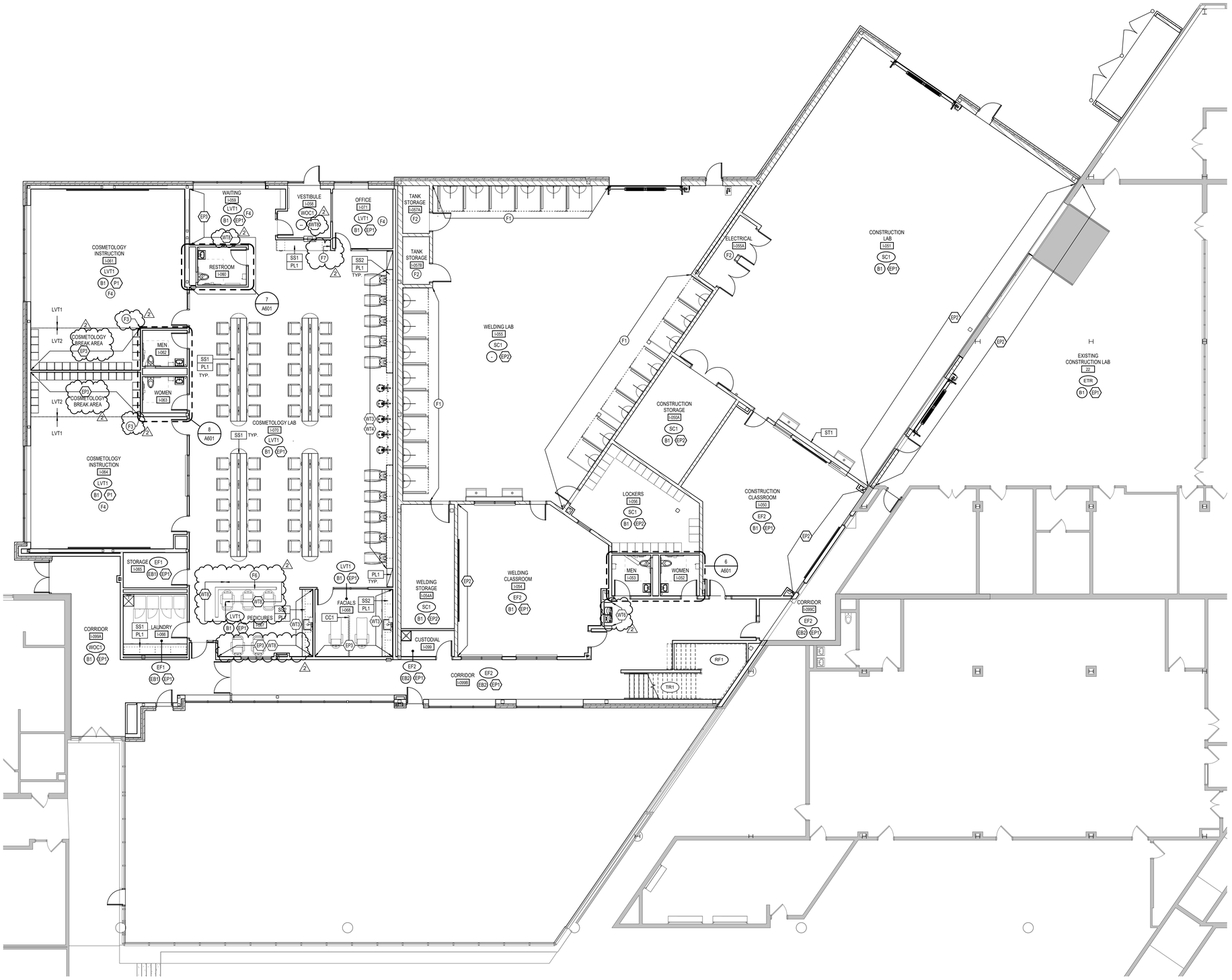
ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	RNR	ECN

DRAWING TITLE:
FINISH LEGEND, DETAILS, & ELEVATIONS

CERTIFIED BY:
JAMES R. FUNK REGISTERED
AR00900003
STATE OF INDIANA
ARCHITECT

DRAWING NUMBER
A800

PROJECT NUMBER
2025022



1 A801 FIRST FLOOR FINISH PLAN
SCALE: 1/8" = 1'-0"

GENERAL FINISH NOTES

A. ANY DISCREPANCIES WITHIN THE DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF CSO ARCHITECTS PRIOR TO INSTALLATION. THESE DOCUMENTS WILL GOVERN OVER PREVIOUS SUPPLEMENTAL DRAWINGS.
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D. CONTRACTOR RESPONSIBLE FOR PROTECTING INSTALLED SURFACES AND EXISTING FINISHES TO REMAIN DURING CONSTRUCTION. ALL EXISTING TO REMAIN SURACES SHALL BE PROPERLY CLEANED.
E. WHERE DEMOLITION OCCURS, SURFACE TO BE PROPERLY PATCHED AND REPAIRED TO MATCH SURROUNDING SURFACES BEFORE FINISH IS APPLIED.
F. FOR CHANGE IN FLOOR FINISH MATERIALS OF DIFFERENT HEIGHTS, PROVIDE TRANSITION STRIP TO MEET CODE/ADA REQUIREMENTS. IF TRANSITION OCCURS AT DOOR OPENING, TRANSITION TO BE ON CENTER OF DOOR LEAF/PANEL, U.N.O. SEE TRANSITION DETAILS ON A800 FOR ADDITIONAL INFORMATION. ALL TRANSITIONS TO BE SUBMITTED TO ARCHITECT FOR APPROVAL.
G. SEE INTERIOR PAINT SPECIFICATIONS FOR SCHEDULE OF COATING TYPE PER SUBSTRATE AND SHEEN. CONTRACTOR TO PROVIDE CRISP, CLEAN LINES BETWEEN ALL PAINT TRANSITIONS.
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M. ALL METAL STAIR COMPONENTS, INCLUDING RAILINGS, STRINGERS, AND RISERS TO BE PAINTED (EP4), U.N.O. DO NOT PAINT ANODIZED ALUMINUM OR FACTORY FINISHED METALS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
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T. ALL WINDOW STOOLS TO BE SOLID SURFACE (SS3), U.N.O. REFER TO A400 SERIES FOR WINDOW SECTIONS AND DETAILS.
U. WHERE WALL TILE OCCURS, ALL OUTSIDE CORNERS AND EXPOSED TILE EDGES ARE TO BE TRIMMED WITH SCHLUTER JOLLY IN BRUSHED STAINLESS STEEL FINISH. SEE WALL TRANSITION DETAILS ON A800.
V. WALL TILE TO BE INSTALLED WITH THE MINIMUM RECOMMENDED GROUT THICKNESS. GROUT COLORS TO BE SELECTED FROM MANUFACTURER'S FULL RANGE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
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FINISH TAG KEY

- (XXX) FLOOR FINISH
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- XXX COUNTERTOP, CASEWORK OR MISCELLANEOUS FINISH ONLY REFER TO FINISH LEGEND
- (XX) ACCENT WALL FINISH
- FLOORING INSTALL DIRECTION

FINISH PLAN NOTES

F1 WALLS INDICATED TO RECEIVE HIGH TEMPERATURE SEALANT; ALL OTHER WALLS IN ROOM TO RECEIVE REGULAR SEALANT. NO WALL BASE.
F2 ROOM TO RECEIVE SHEET VINYLS AS SCHEDULED FROM
F3 FLOORING TRANSITION TO ALIGN W/ CORNER OF WALL 2
F4 WINDOW STOOLS TO BE SOLID SURFACE (SS3).
F5 PAINT DOOR/ DOOR FRAME TO MATCH ADJACENT WALL.
F6 WALLS TO RECEIVE QUARTZ SPRAY (QS).
F7 SEE DETAILS 3/A900 AND 8/A900 FOR PAINT INFORMATION. 2

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PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 South Marr Road
Columbus, Indiana 47201

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural and engineering design intent and do not show all of the minor architectural elements and the type of construction necessary for the proper execution.
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 11-10-2025

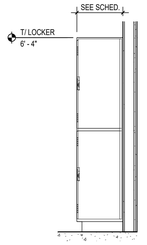
ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	RNR	EDN

DRAWING TITLE:
FIRST FLOOR FINISH PLAN

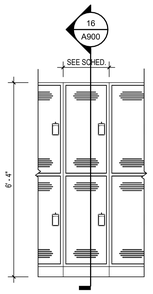
CERTIFIED BY:
JAMES R. CUNNINGHAM REGISTERED ARCHITECT STATE OF INDIANA AR00900003

DRAWING NUMBER
A801

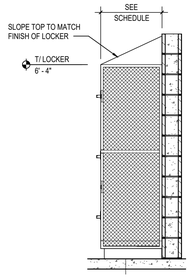
PROJECT NUMBER
2025022



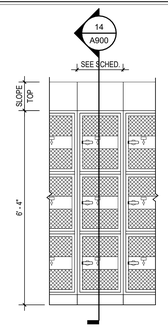
16 A900 LK1 SECTION
SCALE: 1/2" = 1'-0"



15 A900 LK1 ELEVATION
SCALE: 1/2" = 1'-0"



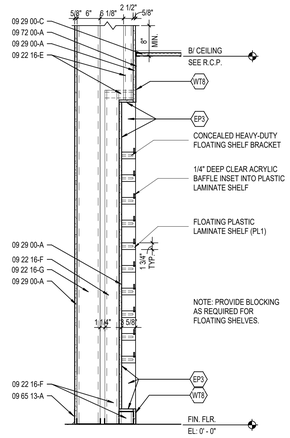
14 A900 LK2 SECTION
SCALE: 1/2" = 1'-0"



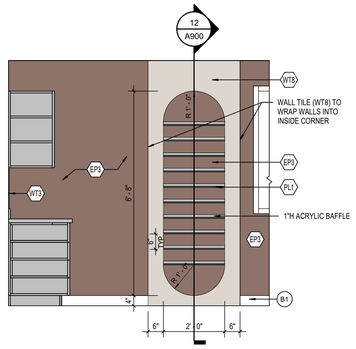
13 A900 LK2 ELEVATION
SCALE: 1/2" = 1'-0"

TYPE MARK	DESCRIPTION	SPEC SECTION	MANUFACTURER	MODEL NO.	REMARKS	FURNISHED BY	INSTALLED BY
AP1	FRONT LOAD ELECTRIC DRYER	-	EXISTING	EXISTING	-	OWNER	OWNER
AP2	4.5 CU. FT. FRONT LOAD WASHER	-	EXISTING	EXISTING	-	OWNER	OWNER
AP3	REFRIGERATOR	11 31 00	GE	GTS22KYNRFS	COORDINATE HOOK-UPS PER ELECTRICAL/PLUMBING DRAWINGS.	CONTRACTOR	CONTRACTOR
BE1	DRILL PRESS	-	-	-	-	OWNER	OWNER
BE2	VERTICAL BAND SAW	-	-	-	-	OWNER	OWNER
BE3	COMPOUND MITER SAW	-	-	-	-	OWNER	OWNER
BE4	DELUXE PLANER	-	-	-	-	OWNER	OWNER
BE5	TABLE SAW	-	-	-	-	OWNER	OWNER
BE6	CNC PLASMA CUTTER	-	-	-	-	OWNER	OWNER
BE7	SHEAR CUTTER	-	-	-	-	OWNER	OWNER
BE8	BENCH GRINDER	-	-	-	-	OWNER	OWNER
CC1	CUBICLE CURTAIN AND TRACK	10 21 23	INPRO	NANOTRACK	TERMINATE 18" A.F.F.	CONTRACTOR	CONTRACTOR
CG1	SURFACE MOUNTED CORNER GUARD - LENGTH VARIES	10 26 00	ACROVYN	SEE SPECS	LENGTH FROM TOP OF VINYL WALL BASE TO FINISHED CEILING HEIGHT	CONTRACTOR	CONTRACTOR
CH1	PEDICURE CHAIR		PIBBS	PS92	FIBERGLASS FOOTSIE PEDICURE SPA, BLACK, MANICURE TRAYS, PLUMBLESS	CONTRACTOR	CONTRACTOR
CH2	FACIAL CHAIR		SILVER FOX	2235D	GLO+ ELECTRIC FACIAL & TREATMENT CHAIR, DARK GREY	CONTRACTOR	CONTRACTOR
CH3	STYLING / BARBER CHAIR		COMFORTEL	ROXANNE STYLING CHAIR	TECTURED BLACK, HYDRAULIC STANDARD HEIGHT BLACK LIFT, OMEGA ROUND BLACK BASE, BLACK T FOOTREST	CONTRACTOR	CONTRACTOR
CH4	HAIR WASHING CHAIR		COLLINS	CIGNO	LEVER - CONTROL SHAMPOO CHAIR W/ KICK OUT LEGREST	CONTRACTOR	CONTRACTOR
CR1	CLOSET ROD	06 40 00	KANPE & VOGT	CLOSET-PRO HEAVY DUTY	1 5/16" DIAMETER ROD (MATTE BLACK) TO EXTEND FULL WIDTH OF OPENING. MOUNT 66" A.F.F.	CONTRACTOR	CONTRACTOR
DC1	4' -0" x 3' - 0" TACK BOARD CABINET	10 11 00	CLARIDGE	1023		CONTRACTOR	CONTRACTOR
FE1	FIRE EXTINGUISHER CABINET	10 44 13	J. L. INDUSTRIES, INC	C1027V10	1027 ALUMINUM, 3" ROLLED TRIM	CONTRACTOR	CONTRACTOR
FE2	FIRE EXTINGUISHER & BRACKET	10 44 13	J. L. INDUSTRIES, INC	SEE SPECS	-	CONTRACTOR	CONTRACTOR
GT1	GROW TOWER	-	-	-	-	OWNER	OWNER
HD1	MOBILE HAIR DRYER	-	OWNER	-	COORDINATE POWER WITH MEP	OWNER	CONTRACTOR
LK1	DOUBLE TIER LOCKER	10 51 00	ASI STORAGE	ASI TRADITIONAL COLLECTION	18" W x 18" D x 72" H	CONTRACTOR	CONTRACTOR
LK2	TRIPLE TIER LOCKER	10 51 00	DEBOURGH	APEX ATHLETIC LOCKERS	18" W x 24" D x 72" H	CONTRACTOR	CONTRACTOR
MB1	8'-0" WIDE x 4'-0" HIGH FIXED MARKER BOARD	10 11 00	CLARIDGE	SERIES 8	MOUNT TOP @ +7' - 0"	CONTRACTOR	CONTRACTOR
MB2	12'-0" WIDE x 4'-0" HIGH FIXED MARKER BOARD	10 11 00	CLARIDGE	SERIES 8	MOUNT TOP @ +7' - 0"	CONTRACTOR	CONTRACTOR
MB3	16'-0" WIDE x 4'-0" HIGH FIXED MARKER BOARD	10 11 00	CLARIDGE	SERIES 8	MOUNT TOP @ +7' - 0"	CONTRACTOR	CONTRACTOR
RS1	MANUALLY OPERATED DUAL ROLLER SHADE	12 24 13	DRAPER INC.	-	ROLLER SHADE TO BE FULL WIDTH OF WINDOW.	CONTRACTOR	CONTRACTOR
RS2	MANUALLY OPERATED SINGLE ROLLER SHADE	12 24 13	DRAPER INC.	-	ROLLER SHADE TO BE FULL WIDTH OF WINDOW.	CONTRACTOR	CONTRACTOR
SL1	SHIP'S LADDER	05 50 00	O'KEEFFE'S, INC	520	75 DEGREE INCLINE	CONTRACTOR	CONTRACTOR
SM1	SUSPENDED SALON MIRROR	08 83 00	CUSTOM	CUSTOM	18" W x 36" H x 2" D DOUBLE SIDED PILL SHAPED MIRROR W/ 1" W MATTE BLACK FRAME, 2"DIA. MATTE BLACK DOWNROD	CONTRACTOR	CONTRACTOR
WB1	WELDING BOOTH W/ CURTAIN	-	-	-	-	OWNER	CONTRACTOR
WT1	STANDARD WELD TABLE	-	-	-	-	OWNER	CONTRACTOR

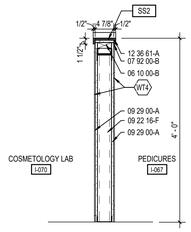
SPECIALTY EQUIPMENT SCHEDULE



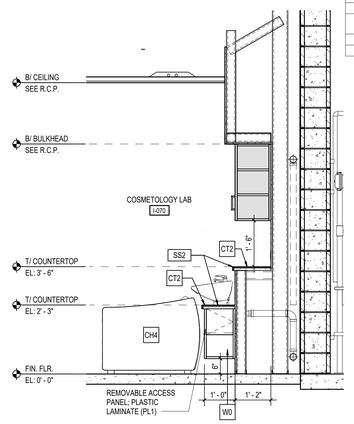
12 A900 RECESSED SHELVING NICHE SECTION
SCALE: 3/4" = 1'-0"



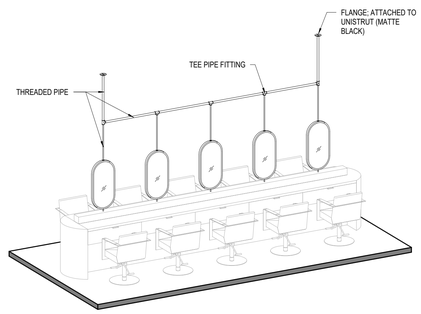
11 A900 RECESSED SHELVING NICHE ELEVATION
SCALE: 1/2" = 1'-0"



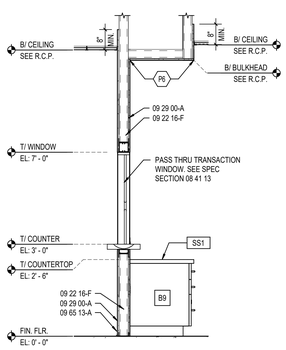
10 A900 HALF HEIGHT WALL SECTION
SCALE: 3/4" = 1'-0"



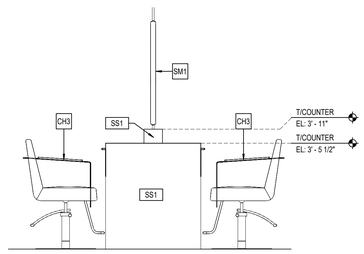
9 A900 CASEWORK SECTION
SCALE: 1/2" = 1'-0"



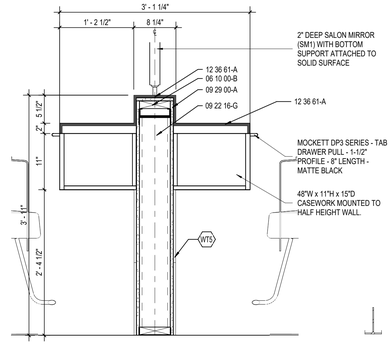
5 A900 AXON - MIRROR TRACK
SCALE:



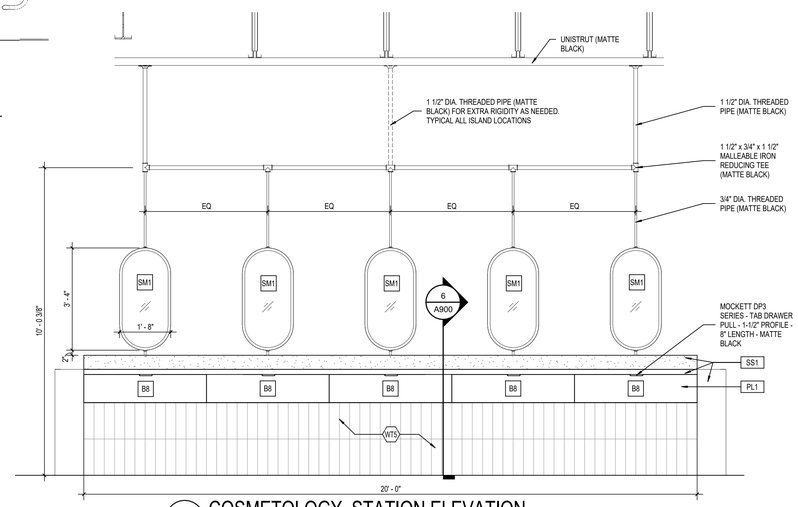
8 A900 MILLWORK SECTION
SCALE: 1/2" = 1'-0"



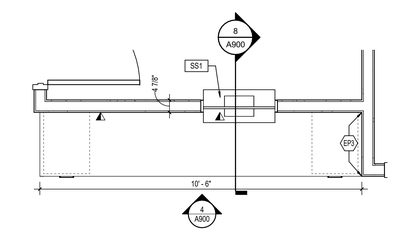
7 A900 COSMETOLOGY STATION ELEVATION
SCALE: 1/2" = 1'-0"



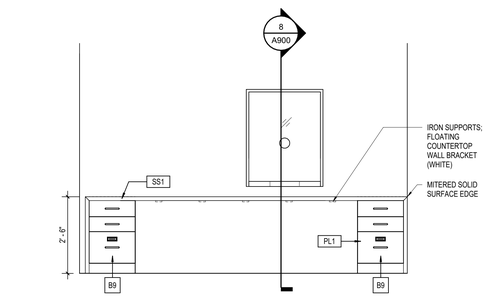
6 A900 COSMETOLOGY STATION SECTION
SCALE: 1" = 1'-0"



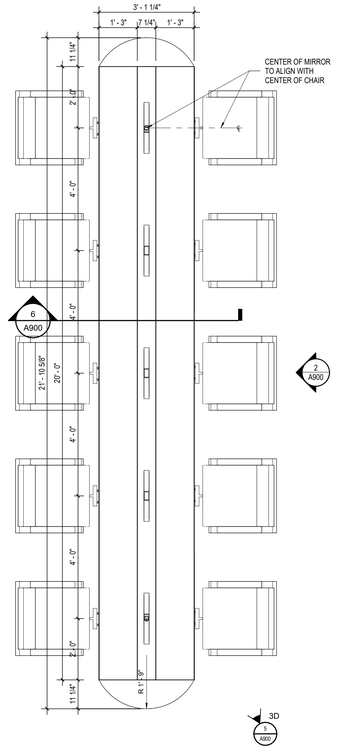
2 A900 COSMETOLOGY STATION ELEVATION
SCALE: 1/2" = 1'-0"



3 A900 COSMETOLOGY RECEPTION DESK
SCALE: 1/2" = 1'-0"



4 A900 COSMETOLOGY RECEPTION DESK ELEVATION
SCALE: 1/2" = 1'-0"



1 A900 COSMETOLOGY STATION
SCALE: 1/2" = 1'-0"

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PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 South Marr Road
Columbus, Indiana 47201

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, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:
2 ADDENDUM #3 11-10-2025

ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	RNR	ECN

DRAWING TITLE:
EQUIPMENT SCHEDULE AND DETAILS

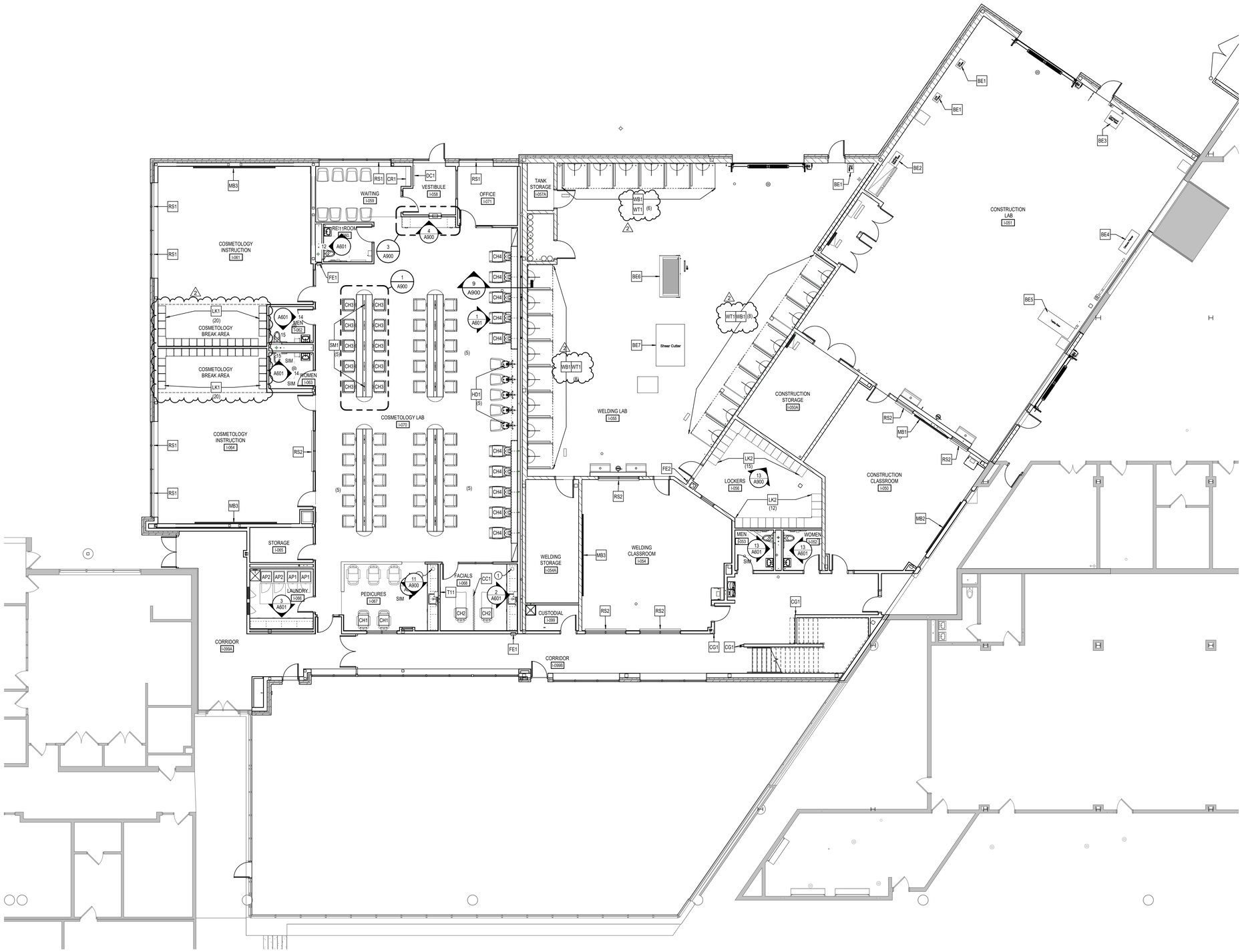
CERTIFIED BY:
JAMES R. FUNK REGISTERED AR00900003 STATE OF INDIANA ARCHITECT

DRAWING NUMBER
A900

PROJECT NUMBER
2025022

⑥ EQUIPMENT PLAN NOTES

1 PROVIDE AN 8" DIAMETER GROMET IN COUNTERTOP AT LAST BASE CASEWORK LOCATION. GROMET SHOULD SIT CENTERED TO CASEWORK IN THIS LOCATION.
2 -
3 -
4 -
5 -



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COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
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All the trades and equipment in the industrial use spaces, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:
2 ADDENDUM #3 11-10-2025

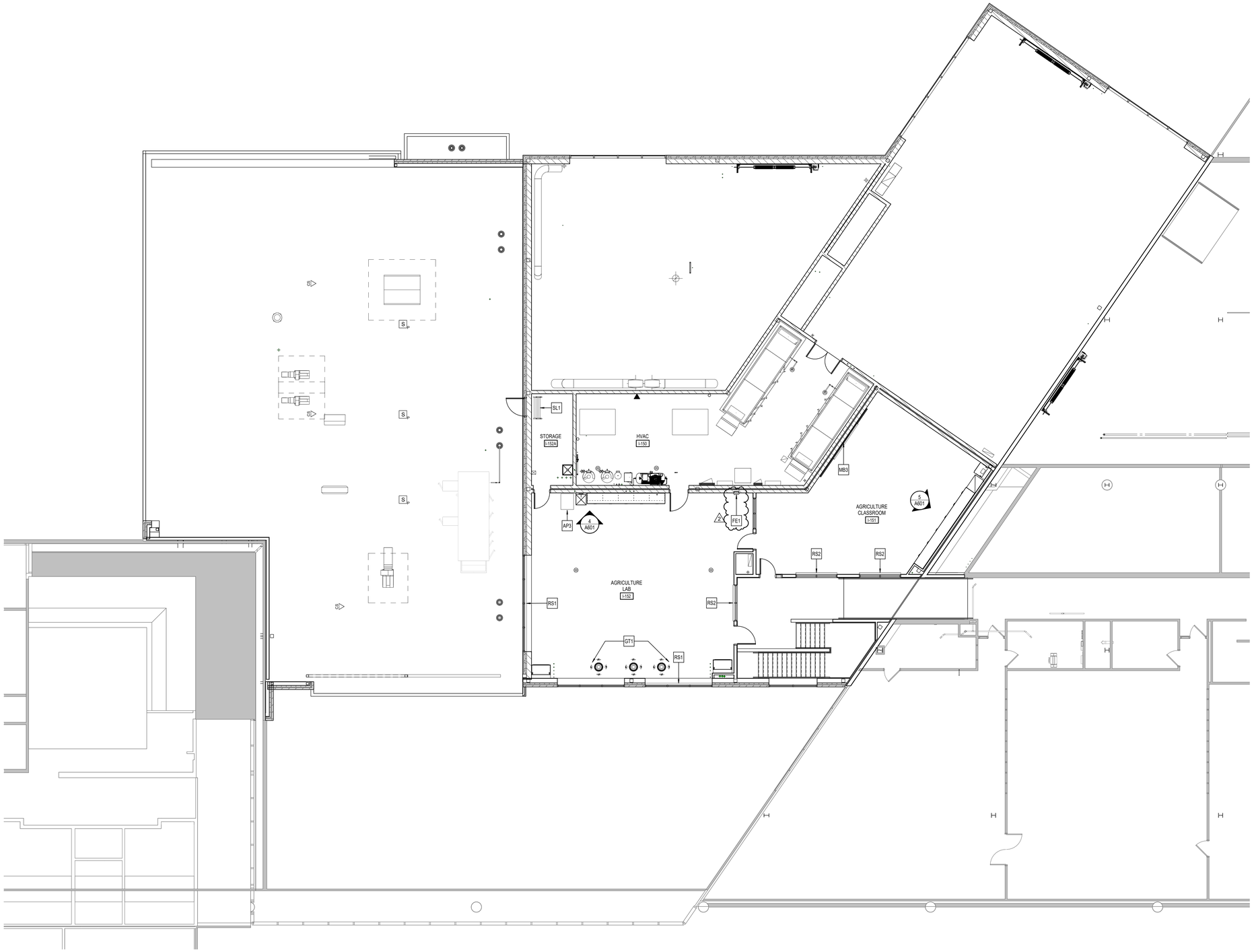
ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	JNC	ECN

DRAWING TITLE:
FIRST FLOOR EQUIPMENT PLAN

CERTIFIED BY:
JAMES R. FUNK REGISTERED AR00900003 STATE OF INDIANA ARCHITECT

DRAWING NUMBER
A901

PROJECT NUMBER
2025022



1 A902 SECOND FLOOR EQUIPMENT PLAN

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

NORTH

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PROJECT:

BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL

C⁴ ADDITION

230 South Marr Road
Columbus, Indiana 47201

SCOPE DRAWINGS:

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REVISIONS:

2	ADDENDUM #3	11-10-2025

ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	JNC	ECN

DRAWING TITLE:

SECOND FLOOR EQUIPMENT PLAN

CERTIFIED BY:

JAMES R. LUX
REGISTERED
AR50900003
STATE OF
INDIANA
ARCHITECT

DRAWING NUMBER

A902

PROJECT NUMBER

2025022

RENOVATION LEGEND:

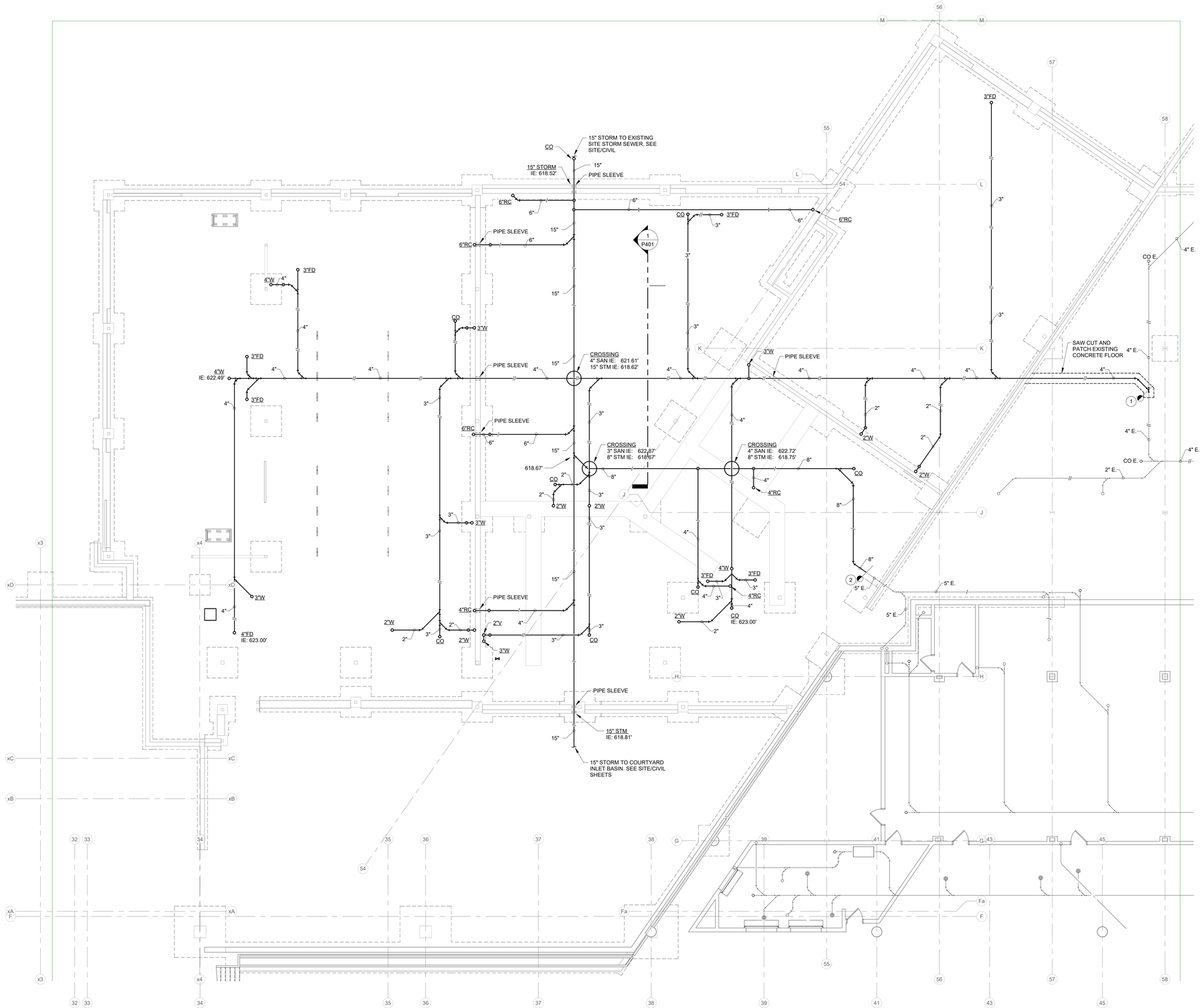
- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. REFER TO SHEET PM001 FOR ADDITIONAL GENERAL NOTES.

(#) PLAN NOTES:

1. CONNECT TO EXISTING 4" WASTE
2. CONNECT 8" STORM TO EXISTING 5" STORM.



UNDERSLAB PLAN - PLUMBING

SCALE: 1/8" = 1'-0" F.F.E: 624.50'

NORTH

0 2 4 6 8 16 24 32

1 2 3 4

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D&A #25076
R.E. Dimond and Associates, Inc.
Consulting Engineers
732 North Capitol Avenue
Indianapolis, IN 46204
Phone: (317) 634-4672
Fax: (317) 638-8725

PROJECT:

BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL

C⁴ ADDITION

230 S Marr Rd
Columbus, Indiana 47201

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural materials and construction, and the size, shape, and relationship of 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, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

1	Addendum 3	11/10/25

ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	TJG	DJU

DRAWING TITLE:

UNDERSLAB PLAN - PLUMBING

CERTIFIED BY:

DANIEL JOSEPH ULRICH
REGISTERED
No. 12100624
STATE OF
INDIANA
PROFESSIONAL ENGINEER

10/ 24/ 2025

DRAWING NUMBER

P101

PROJECT NUMBER

2025022

RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. REFER TO SHEET PM001 FOR ADDITIONAL GENERAL NOTES.

PLAN NOTES:

1. 3/4" HOT WATER AND 1 1/4" COLD WATER DOWN. 3/4" HOT WATER RETURN FROM BELOW.
2. 4" WASTE DOWN. 2" VENT UP.
3. 4" WASTE DOWN. 4" VENT UP. 4" VENT THRU ROOF.
4. 3/4" HOT WATER AND 1 1/2" COLD WATER DOWN.
5. 1 1/4" HOT WATER AND 1 1/4" COLD WATER DOWN.
6. 3/4" COLD WATER DOWN.
7. 3/4 COLD WATER FROM ABOVE.
8. 1" COMPRESSED AIR DOWN. PROVIDE SHUT-OFF VALVE, PRESSURE REGULATOR/FILTER AND CONNECT TO PLASMA TABLE PER MANUFACTURER'S SPECIFICATIONS.
9. 1" COMPRESSED AIR FROM ABOVE. PROVIDE SHUT-OFF VALVE, PRESSURE REGULATOR/FILTER AND QUICK COUPLER CONNECTION. MOUNT AT 48" A.F.F.
10. 3/4" HOT WATER RETURN FROM BELOW.
11. 1" HOT WATER AND 1" COLD WATER DOWN. 3" WASTE DOWN. 2" VENT UP.
12. 3/4" HOT WATER AND 3/4" COLD WATER DOWN. 2" WASTE DOWN. 1 1/2" VENT UP.
13. 4" STORM DOWN.
14. 3" WASTE DOWN. 2" VENT UP.
15. 6" STORM DOWN.
16. 3" VENT UP. 3" VENT THROUGH ROOF.
17. 2" HOT WATER AND 3" COLD WATER FROM ABOVE. 1" HOT WATER RETURN AND 2" VENT UP.
18. 3/4" HOT WATER AND 1 1/2" COLD WATER DOWN. 4" WASTE DOWN. 2" VENT UP. CONNECT 4" WASTE FROM ABOVE TO 4" WASTE PIPING IN CHASE.
19. 3/4" HOT WATER AND 3/4" COLD WATER UP. 1 1/2" WASTE FROM ABOVE. 3/4" COLD WATER UP.
20. 1" COMPRESSED AIR FROM ABOVE.
21. 3/4" ARGON AND 3/4" ARGON + CARBON DIOXIDE WELDING GAS DOWN.
22. 2" VENT UP.
23. 3/4" HOT WATER AND 3/4" COLD WATER UP. 3" WASTE FROM MOP SINK ABOVE. 2" VENT UP.
24. 3" WASTE DOWN.
25. CONNECT 1 1/2" ARGON AND 1 1/2" ARGON/CO_2 PIPING TO HEADER/TANK SYSTEM.
26. EXTEND 3/4" COLD WATER FROM CHASE TO HOSE BIBB (HB-1).
27. 3/4" HOT WATER AND 3/4" COLD WATER DOWN. 1 1/2" WASTE DOWN. 1 1/2" VENT UP. ROUTE HOT WATER, COLD WATER, AND WASTE PIPING IN HALF HEIGHT WALL TO WALL SINKS.
28. 3/4" HOT WATER AND 3/4" COLD WATER DOWN. 2" VENT FROM BELOW.
29. 4" STORM FROM ABOVE.
30. 6" ROOF CONDUCTOR.
31. 3/4" COLD WATER DOWN. 1 1/2" WASTE DOWN. 1 1/2" VENT UP.
32. 1 1/2" ARGON AND 1 1/2" ARGON/CO_2 PIPING UP.
33. 1" COMPRESSED AIR DOWN. PROVIDE SHUT-OFF VALVE, PRESSURE REGULATOR/FILTER AND QUICK COUPLER CONNECTION. MOUNT AT 48" A.F.F.

FIRST FLOOR PLAN - PLUMBING

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

NORTH

0 2 4 6 8 16 24 32

1 2 3 4

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D&A #25076

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Consulting Engineers
732 North Capitol Avenue
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Phone: (317) 634-4672
Fax: (317) 638-8725

PROJECT:

BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL

C⁴ ADDITION

230 S Marr Rd
Columbus, Indiana 47201

SCOPE DRAWINGS:

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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 3	11/10/25

ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	TJG	DJU

DRAWING TITLE:

FIRST FLOOR PLAN - PLUMBING

CERTIFIED BY:

DANIEL JOSEPH ULRICH
REGISTERED
No. 12100624
STATE OF INDIANA
PROFESSIONAL ENGINEER

10/24/2025

DRAWING NUMBER

P201

PROJECT NUMBER

2025022

RENOVATION LEGEND:

WORK TO BE INSTALLED

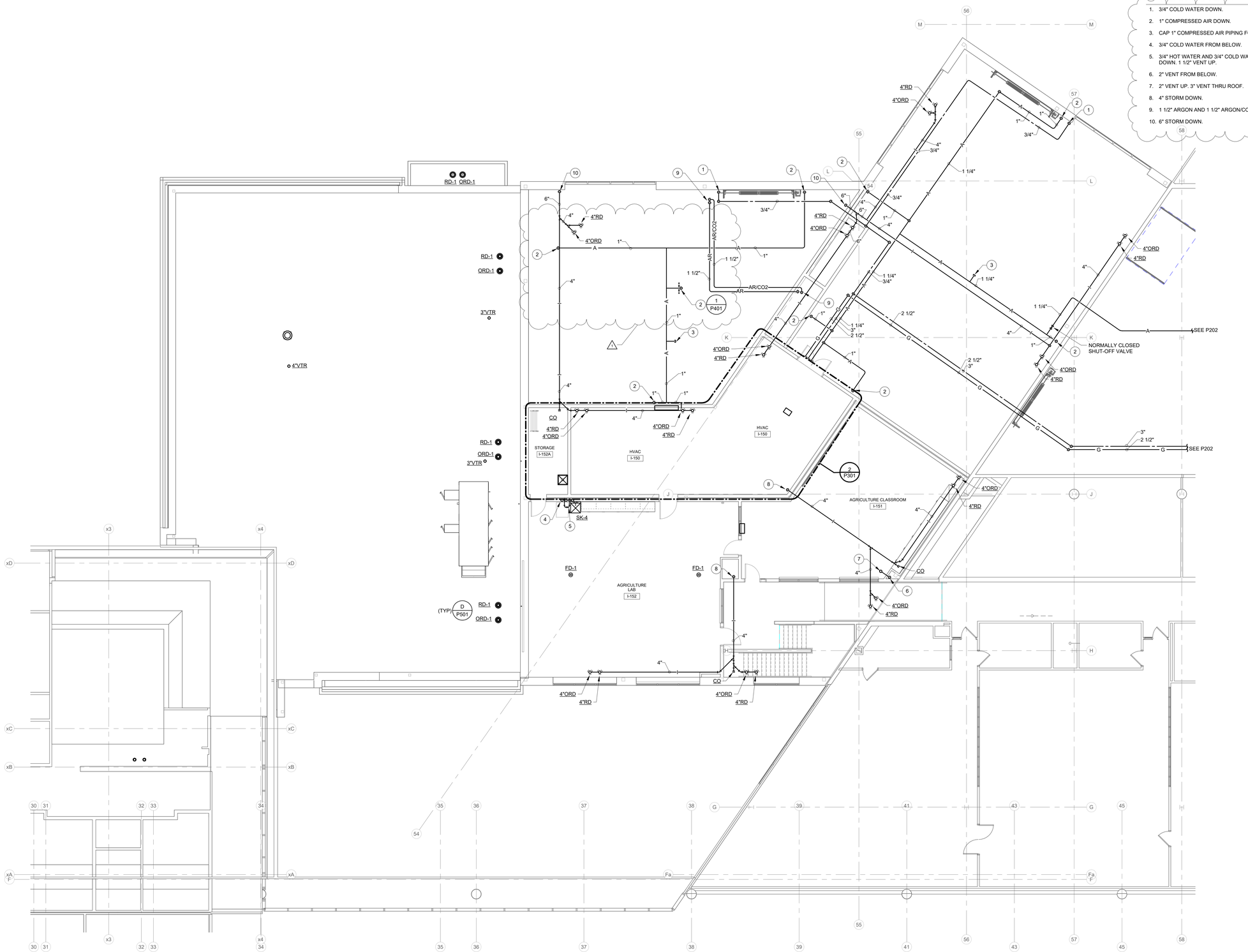
WORK TO REMAIN

GENERAL NOTES:

1. REFER TO SHEET PM001 FOR ADDITIONAL GENERAL NOTES.

PLAN NOTES:

1. 3/4" COLD WATER DOWN.
2. 1" COMPRESSED AIR DOWN.
3. CAP 1" COMPRESSED AIR PIPING FOR FUTURE CONNECTION.
4. 3/4" COLD WATER FROM BELOW.
5. 3/4" HOT WATER AND 3/4" COLD WATER FROM BELOW. 1 1/2" WASTE DOWN. 1 1/2" VENT UP.
6. 2" VENT FROM BELOW.
7. 2" VENT UP. 3" VENT THRU ROOF.
8. 4" STORM DOWN.
9. 1 1/2" ARGON AND 1 1/2" ARGON/CO2 DOWN.
10. 6" STORM DOWN.



SECOND FLOOR PLAN - PLUMBING

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

NORTH

0 2 4 6 8 16 24 32

1 2 3 4

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732 North Capitol Avenue
Indianapolis, IN 46204
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PROJECT:

BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL

C⁴ ADDITION

230 S Marr Rd
Columbus, Indiana 47201

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REVISIONS:

1	Addendum 3	11/10/25

ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	TJG	DJU

DRAWING TITLE:

SECOND FLOOR PLAN - PLUMBING

CERTIFIED BY:

DANIEL JOSEPH ULRICH
REGISTERED
No. 12100624
STATE OF INDIANA
PROFESSIONAL ENGINEER

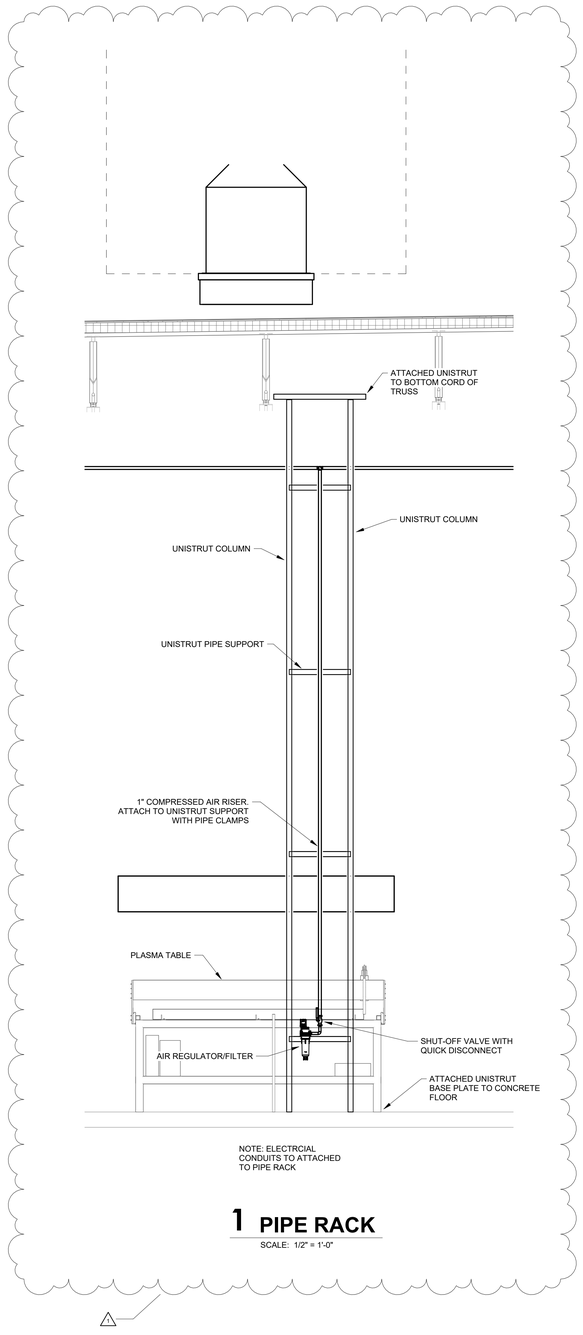
10/24/2025

DRAWING NUMBER

P203

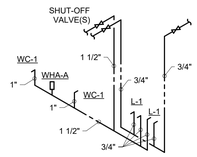
PROJECT NUMBER

2025022



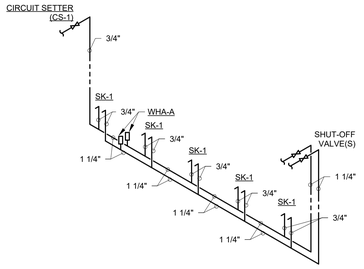
1 PIPE RACK

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



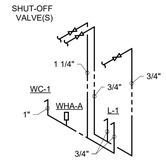
J HOT AND COLD WATER DIAGRAM

SCALE: NONE



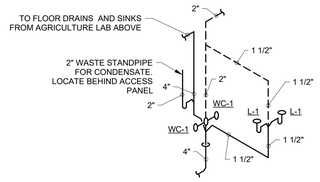
E HOT AND COLD WATER DIAGRAM

SCALE: NONE



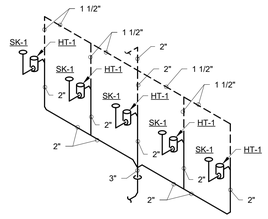
A HOT AND COLD WATER DIAGRAM

SCALE: NONE



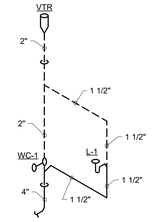
K WASTE AND VENT DIAGRAM

SCALE: NONE



F WASTE AND VENT DIAGRAM

SCALE: NONE

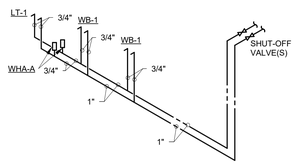


B WASTE AND VENT DIAGRAM

SCALE: NONE

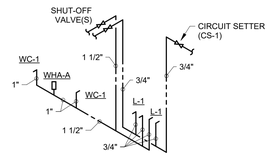
L HOT AND COLD WATER DIAGRAM

SCALE: NONE



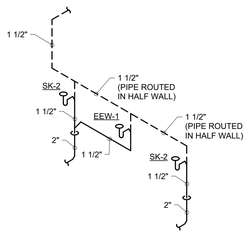
G HOT AND COLD WATER DIAGRAM

SCALE: NONE



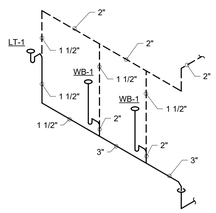
C HOT AND COLD WATER DIAGRAM

SCALE: NONE



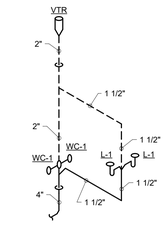
M WASTE AND VENT DIAGRAM

SCALE: NONE



H WASTE AND VENT DIAGRAM

SCALE: NONE



D WASTE AND VENT DIAGRAM

SCALE: NONE

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Consulting Engineers
732 North Capitol Avenue
Indianapolis, IN 46204
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Fax: (317) 638-8725

PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 S Marr Rd
Columbus, Indiana 47201

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REVISIONS:

1	Addendum 3	11/10/25

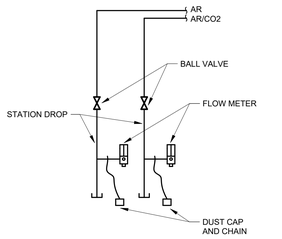
ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	TJG	DJU

DRAWING TITLE:
ISOMETRICS - PLUMBING

CERTIFIED BY:
DANIEL JOSEPH ULRICH
REGISTERED
No. 12100624
STATE OF INDIANA
PROFESSIONAL ENGINEER
10/24/2025

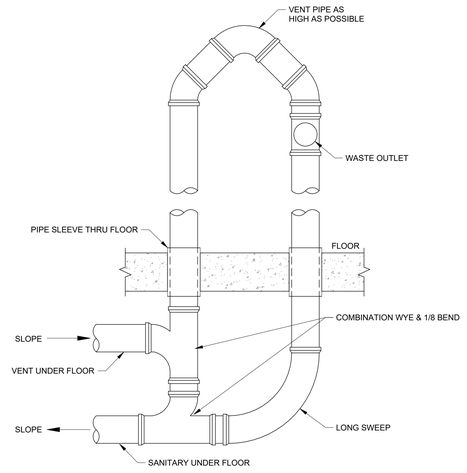
DRAWING NUMBER
P401

PROJECT NUMBER
2025022



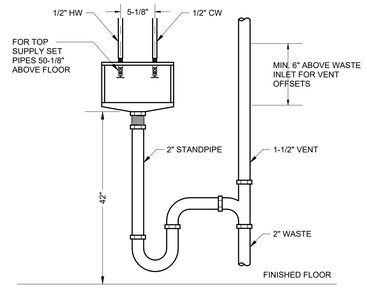
H WELDING STATION DETAIL

SCALE: NONE



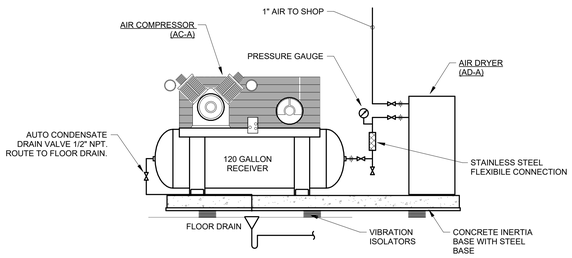
E LOOP VENT PIPING

SCALE: NONE



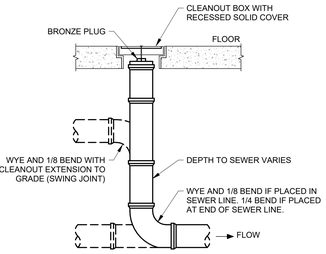
F WASHER BOX DETAIL

SCALE: NONE



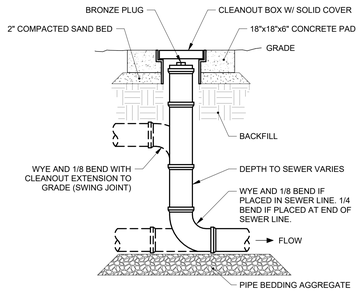
G AIR COMPRESSOR 2

SCALE: NONE



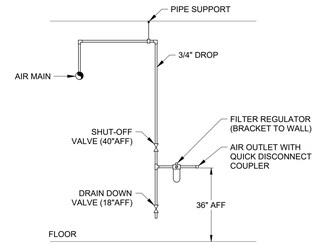
A INTERIOR CLEANOUT

SCALE: NONE



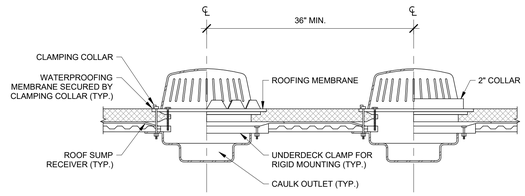
B EXTERIOR CLEANOUT

SCALE: NONE



C AIR REGULATOR STATION

SCALE: NONE



D ROOF DRAIN DETAIL

SCALE: NONE

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D&A #25076
R.E. Dimond and Associates, Inc.
Consulting Engineers
732 North Capitol Avenue
Indianapolis, IN 46204
Phone: (317) 634-4672
Fax: (317) 638-8725

PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 S Marr Rd
Columbus, Indiana 47201

SCOPE DRAWINGS:
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⚠ REVISIONS:
1 Addendum 3 11/10/25

ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	TJG	DJU

DRAWING TITLE:
DETAILS - PLUMBING

CERTIFIED BY:
DANIEL JOSEPH ULRICH
REGISTERED
No. 12100624
STATE OF
INDIANA
PROFESSIONAL ENGINEER
10/24/2025

DRAWING NUMBER
P501

PROJECT NUMBER
2025022

PLUMBING EQUIPMENT SCHEDULE

MARK NO.	SPECIFICATION NAME	MANUFACTURER & MODEL NO.	ELECTRICAL DATA			GAS LOAD (BTU)	CAPACITY	REMARKS
			LOAD	VOLTS	PHASE			
WH-A WH-B	GAS FIRED WATER HEATER	A. O. SMITH #BTH-199	-	120	1 PH	199,000 (EACH)	100 GALLON STORAGE/EA 235 GPH @100^Δt/EA	DIRECT VENT (CONCENTRIC) NEUTRALIZATION KIT: #100289339
TMV-A	THERMOSTATIC MIXING VALVE	LAWLER #801/86208	-	-		-	25 GPM @ 10 PSI DROP	MOUNT AT 48" A.F.F.
CP-A	CIRCULATION PUMP	TACO #0011-F4	1/8 HP	115	1 PH	-	3.0 GPM @ 30' TDH	AQUASTAT SET POINTS ON: 110°F OFF: 117°F
ET-A	EXPANSION TANK	THERM-X-TROL #ST-12C-DD	-	-	-	-	TANK VOLUME = 6.4 GALLONS	
AC-A	AIR COMPRESSOR	ATLAS COPCO #CR15-CRS2-120H	15 HP	460	3 PH	-	120 GAL HORIZONTAL TANK 54 CFM @ 100 PSIG	SEPARATOR #IDC-350 FILTER #UD25+ in PASS
AD-A	AIR DRYER	ATLAS COPCO #FXHT-15 60	11.4 AMPS	120	1 PH	-	-	-
HR-1	WALL MOUNTED HOSE REEL	REELCRAFT #FXHT-15 60	-	-	-	-	-	-
HT-1	HAIR INTERCEPTOR	ZURN #Z1175	-	-	-	-	-	-

FIXTURE ROUGH-IN SCHEDULE & MOUNTING HEIGHTS

MARK NO.	FIXTURE DESCRIPTION	CW	HW	TRAP	W	V	MOUNTING HEIGHTS
WC-1	WATER CLOSET - WALL HUNG, FLUSH VALVE, ADA	1"	-	INTEGRAL	4"	2"	17" TO SEAT
L-1	LAVATORY - WALL HUNG, ADA	1/2"	1/2"	1-1/2"	1-1/2"	1-1/2"	34" TO TOP OF DECK
SK-1	SHAMPOO STATION CHAIR	1/2"	1/2"	1-1/2"	1-1/2"	1-1/2"	-
SK-2	STAINLESS STEEL, WALL HUNG, WASH SINK	1/2"	1/2"	1-1/2"	1-1/2"	1-1/2"	34" TO RIM
SK-3	STAINLESS STEEL, COUNTER SINK	1/2"	1/2"	1-1/2"	1-1/2"	1-1/2"	34" TO TOP OF DECK
SK-4	STAINLESS STEEL, FREE STANDING SINK	1/2"	1/2"	1-1/2"	1-1/2"	1-1/2"	34" TO TOP OF DECK
WB-1	CLOTHES WASHER BOX	3/4"	3/4"	2"	2"	1-1/2"	48" ABOVE FINISH FLOOR
LT-1	LAUNDRY SINK	1/2"	1/2"	1-1/2"	1-1/2"	1-1/2"	MOUNT SINK IN COUNTERTOP
HB-1	HOSE BIBB	3/4"	-	-	-	-	18" ABOVE FINISH FLOOR
HYD-1	WALL HYDRANT - NON FREEZE	3/4"	-	-	-	-	24" ABOVE GRADE
EWC-1	HI/LO WATER COOLER W/ BOTTLE FILLER - ADA	1/2"	-	1-1/2"	1-1/2"	1-1/2"	-
MS-1	MOP SERVICE BASIN	3/4"	3/4"	3"	3"	2"	34" TO FAUCET
EEW-1	EMERGENCY EYEWASH	3/4"	3/4"	-	-	-	-

WATER HAMMER ARRESTER SCHEDULE

TYPE	I.P.S.	F.U. RATING	J.R. SMITH NO.	WADE NO.	ZURN NO.	REMARKS
A	3/4"	1 - 11	5005	W-5	100	P.D.I. CERTIFIED
B	1"	12 - 32	5010	W-10	200	P.D.I. CERTIFIED
C	1"	33 - 60	5020	W-20	300	P.D.I. CERTIFIED
D	1"	61 - 113	5030	W-50	400	P.D.I. CERTIFIED

CIRCUIT SETTER SCHEDULE

MARK NO.	FLOW RATE (GPM)	QUANTITY	SUBTOTAL
CS-1	0.5	4	2.0
CS-2	1.0	1	1.0
CS-3	1.5	1	1.0
		TOTAL	4.0

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PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 S Marr Rd
Columbus, Indiana 47201

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⚠ REVISIONS:
1 Addendum 3 11/10/25

ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	TJG	DJU

DRAWING TITLE:
SCHEDULES - PLUMBING

CERTIFIED BY:
DANIEL JOSEPH ULRICH
REGISTERED
No. 12100624
STATE OF
INDIANA
PROFESSIONAL ENGINEER
10/24/2025

DRAWING NUMBER
P601

PROJECT NUMBER
2025022

RENOVATION LEGEND:

WORK TO BE INSTALLED

WORK TO REMAIN

GENERAL NOTES:

1. SEE E001 FOR GENERAL NOTES.
2. SEE DRAWING E403 FOR CORD REEL AND CORD DROP DETAILS.

(#) PLAN NOTES:

1. INSTALL RECEPTACLE CONCEALED IN EWC/BOTTLE FILLER HOUSING. COORDINATE LOCATION WITH EWC INSTALLER PRIOR TO ROUGH-IN. FEED RECEPTACLE FROM LOAD SIDE OF GFCI RECEPTACLE SHOWN.
2. COORDINATE LOCATION AND VERIFY REQUIREMENTS WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
3. EMERGENCY SHUT-OFF BUTTON CONTROLS SHUNT TRIP MAIN BREAKER IN PANEL(S) SERVING ROOM. EMERGENCY SHUT-OFF BUTTON, RED, NO COVER. STI STOPPER STATION SERIES #SSZ-0-0-_-ES-EN WITH 'EMERGENCY STOP' TEXT.
4. EMERGENCY SHUT-OFF SHUNT TRIP MAIN BREAKER IN PANEL.
5. SEE TYPICAL WELDING BAY WIRING DETAIL ON E400 SERIES DRAWINGS.
6. VERIFY EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN.
7. PROVIDE DEDICATED GROUND ROD AND CONNECTION, MIN. 6AWG. VERIFY WITH EQUIPMENT MANUFACTURER.
8. DROP CORD FOR LOCATING WELDER IN MIDDLE OF ROOM. SEE DROP CORD SCHEDULE. VERIFY CONNECTIONS WITH OWNER.
9. CONNECT ALL RECEPTACLES IN THIS ROOM TO CIRCUIT LISTED IN WELDING PANELBOARD 'WELD,' UNLESS NOTED OTHERWISE.
10. CONNECT ALL RECEPTACLES IN THIS ROOM TO CIRCUIT LISTED IN CONSTRUCTION PANELBOARD 'CON' UNLESS NOTED OTHERWISE.
11. 0-2 HOUR TIMER SWITCH FOR EXHAUST FANS AND FUME EXTRACTORS. SEE MECHANICAL CONTROLS DRAWINGS.
12. PROVIDE 2-CIRCUIT CORD REELS IN THIS ROOM. SEE E400 SERIES DRAWINGS.
13. POWER FOR DOOR HARDWARE AND SECURITY. COORDINATE LOCATION AND REQUIREMENTS WITH TELECOM INSTALLER.
14. POWER FOR IN-CEILING DOCUMENT CAMERA. COORDINATE LOCATION AND REQUIREMENTS WITH TELECOM INSTALLER.
15. SEE DRAWING E501.
16. NEMA 14-30R RECEPTACLE FOR DRYER WITH #10 WIRE.
17. NEMA 6-20R OUTLET. COORDINATE LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
18. NEMA 5-20R OUTLET. COORDINATE LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
19. PROVIDE WALL SWITCH TO CONTROL MOTORIZED DAMPERS FOR RECIRCULATION OR EXHAUST OF EF-E. COORDINATE WITH MECHANICAL CONTROLS.
20. POWER FOR EF-E MOTORIZED DAMPERS. COORDINATE WITH MECHANICAL CONTROLS.

FIRST FLOOR PLAN - POWER

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

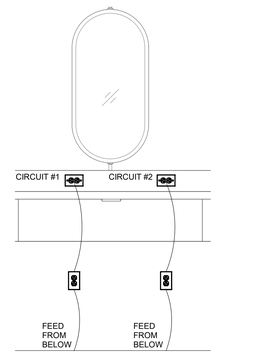
NORTH

0 2 4 6 8 16 24 32

1 2 3 4

1 ENLARGED LAUNDRY & STORAGE PLAN - POWER

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



2 TYPICAL COSMETOLOGY COUNTER

SCALE: 3/4" = 1'-0"

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Fax: (317) 638-8725

PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION/RENOVATION
230 S Marr Rd
Columbus, Indiana 47201

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REVISIONS:

1	Addendum 3	11/10/25

ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	DK	DW

DRAWING TITLE:
FIRST FLOOR PLAN - POWER

CERTIFIED BY:
TIMOTHY E. HILL REGISTERED No. PE19800083 STATE OF INDIANA PROFESSIONAL ENGINEER
10/24/2025

DRAWING NUMBER
E211

PROJECT NUMBER
2025022

RENOVATION LEGEND:

WORK TO BE INSTALLED

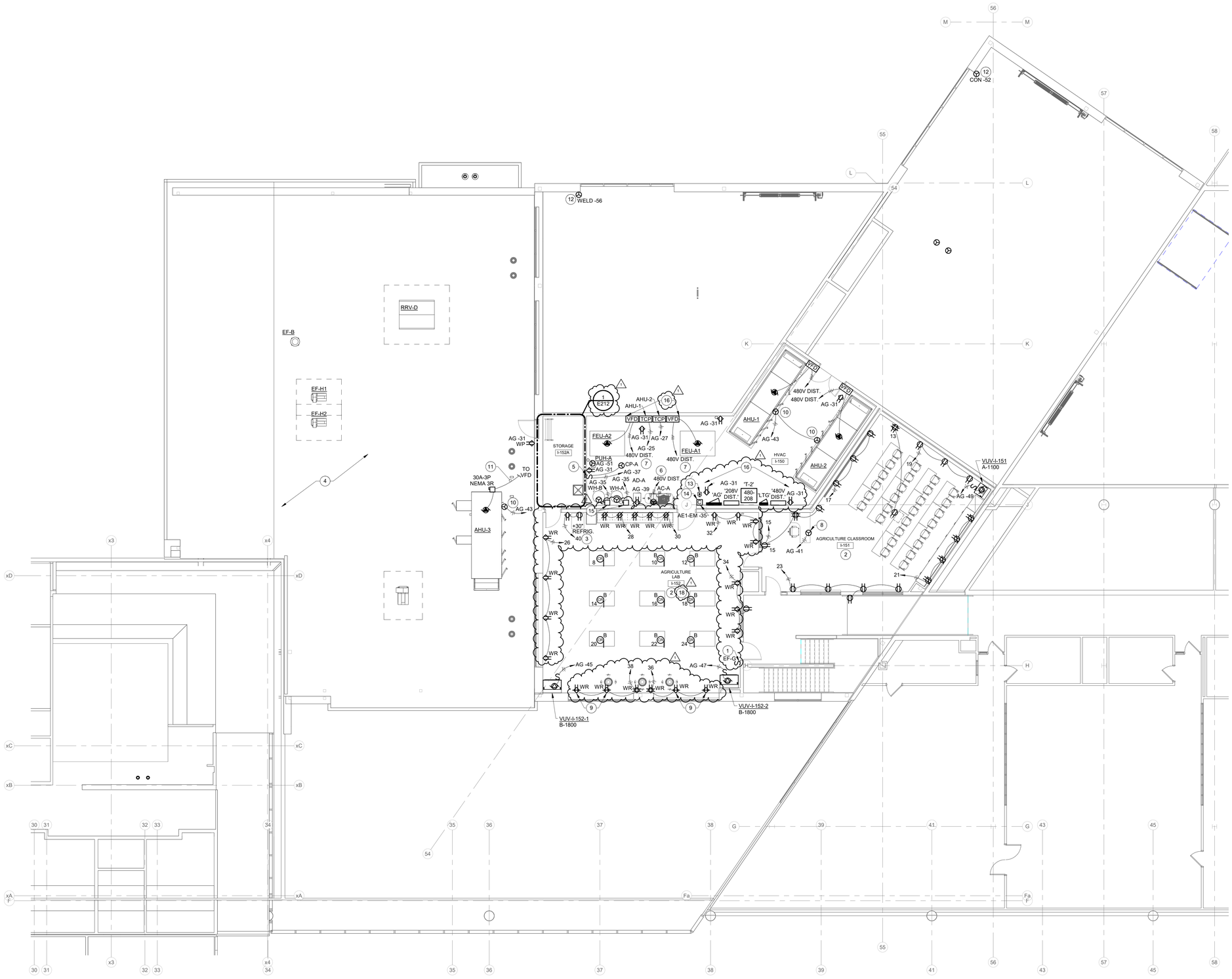
WORK TO REMAIN

GENERAL NOTES:

1. SEE E001 FOR GENERAL NOTES.
2. SEE DRAWING E403 FOR CORD REEL AND CORD DROP DETAILS.

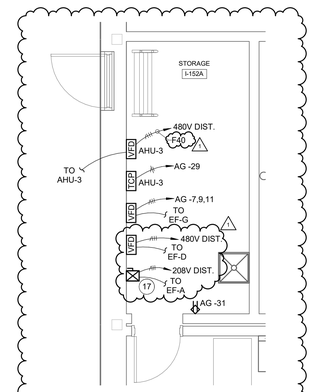
(#) PLAN NOTES:

1. 0-2 HOUR TIMER SWITCH FOR EXHAUST FAN. SEE MECHANICAL CONTROLS DRAWINGS.
2. CONNECT ALL RECEPTACLES IN THIS ROOM TO CIRCUIT LISTED IN AGRICULTURE PANELBOARD 'AG' UNLESS NOTED OTHERWISE.
3. PROVIDE BLANK FACE GFCI AND INSTALL AT COUNTER HEIGHT. FEED REFRIGERATOR RECEPTACLE FROM LOAD SIDE OF BLANK FACE GFCI.
4. SEE DRAWING E220.
5. WIRE CP-A THROUGH AQUASTAT FOR CONTROL.
6. WIRING TO AIR COMPRESSOR AC-A (15HP) SHALL BE 3#8, 1#10G - 1"C. CONNECT TO MOTOR STARTER ON UNIT.
7. WIRING TO FUME EXTRACTOR FEU-A1 AND -A2 (30HP) SHALL BE 3#4, 1 #8G - 1-1/4"C.
8. POWER FOR IN-CEILING DOCUMENT CAMERA. COORDINATE LOCATION AND REQUIREMENTS WITH TELECOM INSTALLER.
9. INSTALL IN WALL BELOW WINDOW.
10. CONNECT TO LIGHTS AND RECEPTACLES FURNISHED WITH AHU.
11. ROUTE CIRCUIT BELOW ROOF, ABOVE CEILING OF LEVEL BELOW.
12. PROVIDE CIRCUIT FOR FUTURE POWERED SHADES. COORDINATE LOCATION IN FIELD.
13. PROVIDE PUSH BUTTON FOR SHUTOFF OF BOILERS. SEE SCHEMATIC ON DRAWING E401. VERIFY LOCATION WITH AHJ.
14. PROVIDE 4-POLE MECHANICALLY HELD REMOTE CONTACTOR WITH CONTACTS RATED 30 AMPS, INDUCTIVE AT 480V. PROVIDE CONTROL RELAY FOR TWO-WIRE CONTROL. PROVIDE H-O-A SWITCH IN COVER. PROVIDE 120V CIRCUIT INDICATED FOR E-STOP BUTTON CONTROL. SEE SCHEMATIC ON DRAWING E401.
15. PROVIDE 30A NON-FUSIBLE DISCONNECT FOR LOCAL WATER HEATER EQUIPMENT SHUT-OFF. SEE SCHEMATIC ON DRAWING E401. PROVIDE UNISTRUT STAND AS REQUIRED.
16. CLEARANCES ARE TIGHT IN THIS AREA. COORDINATE WITH ALL TRADES PRIOR TO ROUGH IN TO PROVIDE REQUIRED ELECTRICAL EQUIPMENT CLEARANCE AND WORKING SPACE.
17. PROVIDE 2HP, 208V, 3 COMBINATION MOTOR STARTER AND DISCONNECT.
18. ALL RECEPTACLES IN THIS ROOM SHALL BE WEATHER-RESISTANT.



SECOND FLOOR PLAN - POWER

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



1 ENLARGED STORAGE PLAN - POWER

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

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BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL

C⁴ ADDITION

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10/24/2025	DK	DW

DRAWING TITLE:

SECOND FLOOR PLAN - POWER

CERTIFIED BY:

TIMOTHY E. HILL REGISTERED No. PE19800083 STATE OF INDIANA PROFESSIONAL ENGINEER

10/24/2025

DRAWING NUMBER

E212

PROJECT NUMBER

2025022

RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. SEE E001 FOR GENERAL NOTES.

(#) PLAN NOTES:

1. CONNECT TO CIRCUIT LISTED THROUGH VFD. SEE E210 SERIES DRAWINGS.
2. SEE DRAWING E212.
3. EXTEND EXISTING CIRCUIT AND RECONNECT TO RELOCATED MECHANICAL EQUIPMENT ON ROOF.
4. CONNECT TO CIRCUIT LISTED THROUGH MOTOR STARTER. SEE DRAWING E212.

ROOF PLAN - ELECTRICAL

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

NORTH

0 2 4 6 8 16 24 32

1 2 3 4

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PROJECT:

BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL

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10/24/2025	DK	DW

DRAWING TITLE:

ROOF PLAN - ELECTRICAL

CERTIFIED BY:

TIMOTHY E. HILL
REGISTERED
No. PE19800083
STATE OF INDIANA
PROFESSIONAL ENGINEER

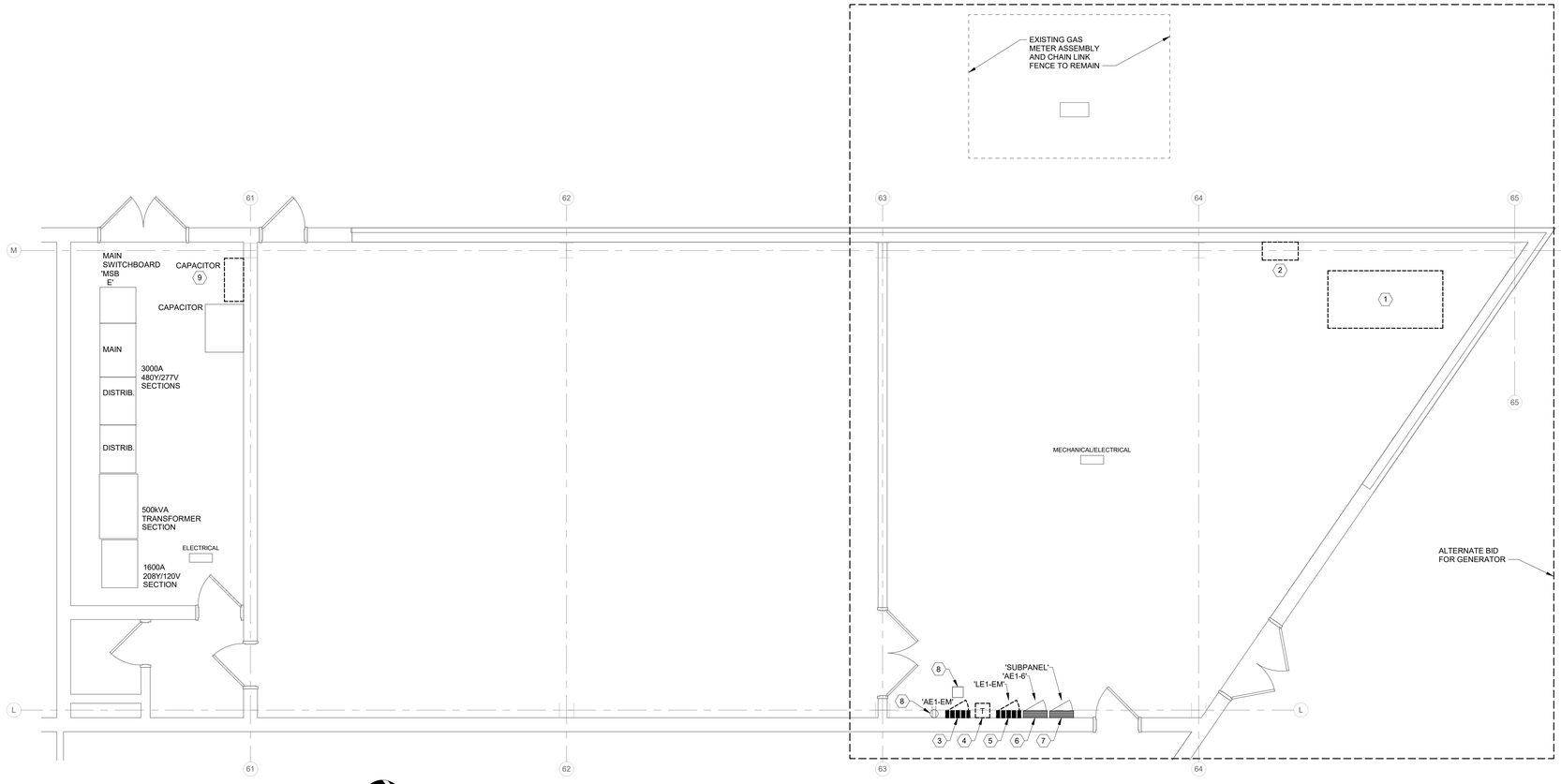
10/24/2025

DRAWING NUMBER

E220

PROJECT NUMBER

2025022



GENERATOR REPLACEMENT PLAN - ELECTRICAL DEMOLITION

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

NORTH

RENOVATION LEGEND:

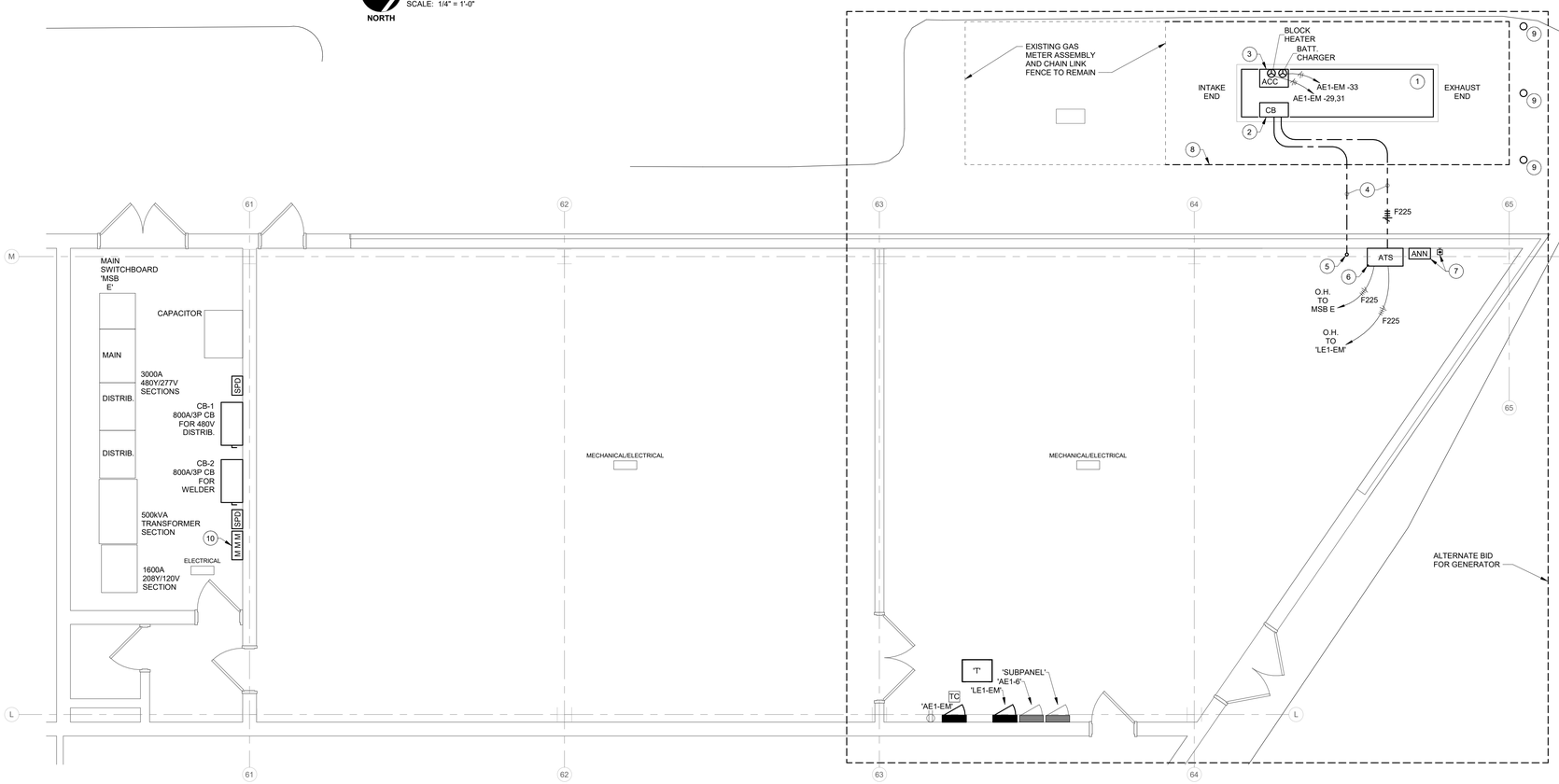
- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. SEE E001 FOR GENERAL NOTES.

PLAN NOTES - DEMOLITION:

1. REMOVE EXISTING 37.5kVA NATURAL GAS GENERATOR, 480Y/277V, AND ALL ASSOCIATED WIRING AND APPURTENANCES.
2. REMOVE 125 AMP AUTOMATIC TRANSFER SWITCH AND ALL ASSOCIATED WIRING AND HARDWARE. REMOVE NORMAL FEEDER BACK TO MAIN SWITCHBOARD 'E' AND EMERGENCY FEEDER TO GENERATOR.
3. REMOVE 100 AMP, 120/208V EMERGENCY PANEL 'AE1-EM.' DISCONNECT BRANCH CIRCUITS AND PREPARE FOR RECONNECTION TO NEW PANEL.
4. REMOVE 6kVA, 480-208Y/120V TRANSFORMER AND ALL WIRING.
5. REMOVE 100 AMP, 277/480V EMERGENCY PANEL 'LE1-EM.' DISCONNECT BRANCH CIRCUITS AND PREPARE FOR RECONNECTION TO NEW PANEL.
6. PANEL AE1-6 TO REMAIN (120/208V).
7. SUBPANEL TO REMAIN (120/208V).
8. TIMECLOCK AND RECEPTACLE TO REMAIN.
9. DISCONNECT AND DEMOLISH EXISTING CAPACITOR.



GENERATOR REPLACEMENT PLAN - ELECTRICAL

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

NORTH

PLAN NOTES:

1. PROVIDE A NATURAL GAS STANDBY EMERGENCY GENERATOR, 150kW, 187.5kVA, 480Y/277V, 3ϕ, 4W. CUMMINS C150N6, LEVEL 2 SOUND ATTENUATION ENCLOSURE. PROVIDE CONCRETE PAD PER DETAIL ON E400 SERIES DRAWINGS. REMOVE AND REPLACE CONCRETE SIDEWALK AS REQUIRED. MATCH EXISTING.
2. GENERATOR CIRCUIT BREAKER SECTION. (1) 225A-3P BREAKER AND (1) 100A-3P SPARE BREAKER.
3. GENERATOR ACCESSORY SECTION.
4. PROVIDE (2) UNDERGROUND 2-1/2" RACEWAYS, PLUS CONDUITS FOR ACCESSORIES, START/STOP WIRING, ETC. PENETRATE EXTERIOR WALL BELOW SIDEWALK/FLOOR AND JUST ABOVE FOOTER, SO APPROXIMATELY 2-FOOT BELOW FINISHED FLOOR. REMOVE AND REPLACE MECHANICAL ROOM FLOOR AS REQUIRED. VERIFY FIELD CONDITIONS.
5. SPARE 2-1/2" CONDUIT FOR FUTURE USE.
6. PROVIDE AN AUTOMATIC TRANSFER SWITCH, OPEN TRANSITION, MINIMUM 225 AMP - 4 POLE, NEMA 12 ENCLOSURE. PROVIDE SUPPORT STAND. PROVIDE CONTROL WIRING TO GENERATOR.
7. GENERATOR REMOTE ANNUNCIATOR AND EMERGENCY STOP. PROVIDE MOUNTING SUPPORT AND WIRING TO GENERATOR.
8. PROVIDE CHAIN LINK FENCE, TO MATCH EXISTING GAS METER FENCE. COORDINATE POST LOCATIONS TO ENSURE GENERATOR ACCESS DOORS CAN OPEN COMPLETELY. PROVIDE 36-INCH GATE FOR ACCESS.
9. PROVIDE (3) PROTECTIVE BOLLARDS PER DETAILS SHOWN ON C OR L SERIES DRAWINGS.
10. SHARK 200 SERIES METERS IN CABINET FOR DATA LOGGING. SEE ELECTRICAL RISER DIAGRAM ON DRAWING E501.

0 1 2 3 4 8 12 16

1 2 3 4

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R.E. Dimond and Associates, Inc.
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732 North Capitol Avenue
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Fax: (317) 638-8725

PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 S Marr Rd
Columbus, Indiana 47201

SCOPE DRAWINGS:
These drawings indicate the general scope and the extent and forms of architectural design; consult 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, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

1	Addendum 3	11/10/25

ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	DK	DW

DRAWING TITLE:
ENLARGED PLANS - ELECTRICAL

CERTIFIED BY:
TIMOTHY E. HILL
REGISTERED
No. PE19800083
STATE OF INDIANA
PROFESSIONAL ENGINEER
10/24/2025

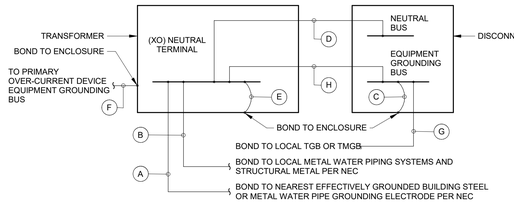
DRAWING NUMBER
E301

PROJECT NUMBER
2025022

DISTRIBUTION TRANSFORMER FEEDER AND GROUNDING SCHEDULE (COPPER CONDUCTORS)							
kVA RATING	480V. PRIMARY (Δ) 3PH.,3W.		120/208V. SECONDARY (-) 3PH.,4W.			GEC & CONDUIT	kVA RATING
	O.C.P.D.	PRIMARY FEEDER	O.C.P.D.	SECONDARY FEEDER	SBJ		
15	30A	3#10, 1#10 G, 3/4" C	50A	3#6, 1#6 N, 1#8 G, 1-1/4" C	#8	1#8, 3/4"C.	15
30	50A	3#6, 1#10 G, 1" C	100A	3#1, 1#1 N, 1#6 G, 1-1/2" C	#6	1#6, 3/4"C.	30
45	70A	3#4, 1#8 G, 1-1/4" C	150A	3#1/0, 1#1/0 N, 1#6 G, 2" C	#6	1#6, 3/4"C.	45
75	125A	3#1, 1#6 G, 1-1/2" C	250A	3#250KCMIL, 1#250KCMIL N, 1#2 G, 2-1/2" C	#2	1#2, 3/4"C.	75
112.5	175A	3#2/0, 1#6 G, 2" C	400A	2 SETS 3#3/0, 1#3/0 N, 1#4 G, 2" C EACH	#2	1#2, 3/4"C.	112.5
150	225A	3#4/0, 1#4 G, 2-1/2" C	500A	2 SETS 3#250KCMIL, 1#250KCMIL N, 1#2 G, 2-1/2" C EACH	#1/0	1#1/0, 1"C.	150
225	350A	3#500KCMIL, 1#3 G, 3" C	800A	3 SETS 3#300KCMIL, 1#300KCMIL N, 1#2 G, 3" C EACH	#2/0	1#2/0, 1"C.	225
300	450A	2 SETS 3#4/0, 1#2 G, 2-1/2" C EACH	1000A	3 SETS 3#400KCMIL, 1#400KCMIL N, 1#1/0 G, 3-1/2" C EACH	#3/0	1#3/0, 1"C.	300
500	800A	2 SETS 3#500KCMIL, 1#1/0 G, 3" C EACH	1600A	4 SETS 3#600KCMIL, 1#600KCMIL N, 1#1/0 G, 4" C EACH	#300 KCMIL	1#3/0, 1"C.	500

TRANSFORMER SCHEDULE NOTES:

1. REFER TO DISTRIBUTION TRANSFORMER GROUNDING DETAIL.
2. CONDUCTOR SIZES ARE BASED ON THHN-THWN COPPER CONDUCTORS.



A. GROUNDING ELECTRODE CONDUCTOR (GEC). REFER TO "GEC AND CONDUIT" COLUMN IN DISTRIBUTIONTRANSFORMER FEEDER AND GROUNDING SCHEDULE FOR CONDUCTOR AND CONDUIT SIZE.

B. SUPPLY-SIDE BONDING JUMPER (SSBJ). REFER TO "GEC AND CONDUIT" COLUMN IN DISTRIBUTION TRANSFORMER FEEDER AND GROUNDING SCHEDULE FOR CONDUCTOR AND CONDUIT SIZE.

C. SSBJ. REFER TO GROUND CONDUCTOR SIZE IN "GEC AND CONDUIT" COLUMN IN DISTRIBUTION TRANSFORMER FEEDER AND GROUNDING SCHEDULE. SCREW OR BUSBAR MAY BE USED WHEN PROVIDED AS PART OF LISTED SERVICE EQUIPMENT.

D. GROUNDED (NEUTRAL) CONDUCTOR. REFER TO "SECONDARY FEEDER" COLUMN FOR CONDUCTOR SIZE.

E. SYSTEM BONDING JUMPER (SBJ). REFER TO "SBJ" COLUMN IN DISTRIBUTION TRANSFORMER FEEDER AND GROUNDING SCHEDULE.

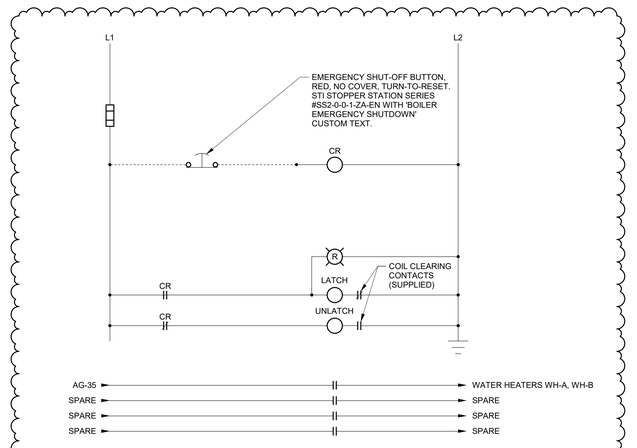
F. EQUIPMENT GROUNDING CONDUCTOR. REFER TO "PRIMARY FEEDER" COLUMN IN DISTRIBUTION TRANSFORMER FEEDER AND GROUNDING SCHEDULE FOR CONDUCTOR SIZE.

G. EQUIPMENT BONDING JUMPER (EBJ): 4 AWG COPPER.

H. SSBJ. REFER TO GROUNDING CONDUCTOR SIZE IN "SECONDARY FEEDER" COLUMN IN DISTRIBUTION TRANSFORMERFEEDER AND GROUNDING SCHEDULE.

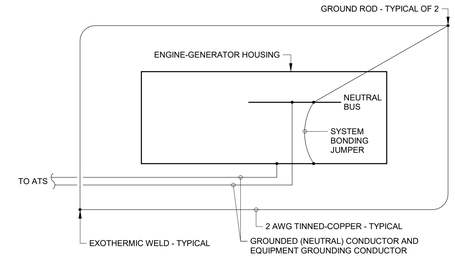
A DISTRIBUTION TRANSFORMER GROUNDING DETAIL

SCALE: NONE



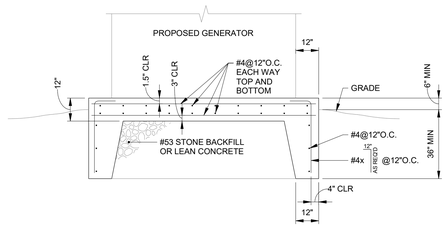
D BOILER REMOTE EMERGENCY SHUT DOWN SWITCH SCHEMATIC

SCALE: NONE



B TYPICAL ENGINE GENERATOR GROUNDING

SCALE: NONE



C EQUIPMENT PAD DETAILS

SCALE: NONE

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REVISIONS:
1 Addendum 3 11/10/25

ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	DK	DW

DRAWING TITLE:
DETAILS - ELECTRICAL

CERTIFIED BY:
TIMOTHY E. HILL REGISTERED No. PE19800083 STATE OF INDIANA PROFESSIONAL ENGINEER
10/24/2025

DRAWING NUMBER
E401

PROJECT NUMBER
2025022

LIGHT FIXTURE SCHEDULE

MARK	DESCRIPTION	MOUNTING	WATTS	CRI	COLOR	LUMENS	VOLTS	MANUFACTURER(S)	MARK
F01-14	LINEAR 4-INCH WIDE BY LENGTH INDICATED, WHITE DIFFUSER, 0-10V DIMMING TO 10-PERCENT.	RECESSED	99 W	80	3500K	725/FT	120-277V	FINELITE HP-4 R SERIES FOCAL POINT FSM4L SERIES PINNACLE EV4D SERIES	F01-14
F10-8	LINEAR DIRECT 4-INCH WIDE BY LENGTH INDICATED DAMP LOCATION LISTED, AIRCRAFT CABLE, WHITE DIFFUSER, 0-10V DIMMING TO 10-PERCENT, RAL COLOR FINISH TO BE SELECTED BY ARCHITECT.	SUSPENDED	57 W	80	3500K	650/FT	120-277V	FINELITE HP-4 SERIES LUMENWERX VIA4P SERIES PINNACLE EX3 SERIES	F10-8
F10-12	SAME AS FIXTURE TYPE 'F10-8,' EXCEPT LENGTH.	SUSPENDED	85 W	80	3500K	650/FT	120-277V		F10-12
F10-12X	SAME AS FIXTURE TYPE 'F10-12,' EXCEPT EQUIPPED WITH AUTOMATIC LOAD CONTROL RELAY (ALCR).	SUSPENDED	85 W	80	3500K	650/FT	120-277V		F10-12X
F24	2 BY 2-FOOT ARCHITECTURAL TROFFER, DIFFUSE CENTER BASKET OPTIC, FROSTED ACRYLIC LENS, 0-10V DIMMING TO 10-PERCENT, SELECTABLE LUMENS AND CCT.	RECESSED	38 W	80	3500K/ 4000K/ 5000K	3000/ 4000/ 5000	120-277V	COLUMBIA LCAT22-LSCS SERIES LITHONIA STAKS 2X2 SERIES METALUX 22CZS SERIES	F24
F24X	SAME AS FIXTURE TYPE 'F24,' EXCEPT EQUIPPED WITH AUTOMATIC LOAD CONTROL RELAY (ALCR).	RECESSED	38 W	80	3500K/ 4000K/ 5000K	3000/ 4000/ 5000	120-277V		F24X
F50	3-INCH CYLINDER, STEM MOUNT, ADJUSTABLE TILT AND ROTATION, ALUMINUM HOUSING, CLEAR SEMI-SPECULAR REFLECTOR, MEDIUM DISTRIBUTION, STEM MOUNT, 0-10V DIMMING TO 10-PERCENT, RAL COLOR FINISH TO BE SELECTED BY ARCHITECT.	SUSPENDED	21 W	80	3500K	1500	120-277V	GOTHAM EVO2PRC SERIES 10TOW LOLO SERIES LUMENWERX AE3FXCYP SERIES	F50
F52	OVAL RING, NOMINAL 2-INCH WIDE, 8-FOOT BY 46-FOOT OVERALL SIZE, 4-FOOT RADIUS, DIRECT DISTRIBUTION, AIRCRAFT CABLE, WHITE ACRYLIC LENSING, 0-10V DIMMING TO 10-PERCENT, RAL COLOR FINISH TO BE SELECTED BY ARCHITECT.	PENDENT	920 W	80	3500K	750/FT	120-277V	AXIS 'SKETCH 2' SK2PD OV SERIES BETA CALCO 'MICRO SQUIGGLE' SC SERIES G LIGHTING 'FREESTYLE' F SERIES	F52
F60	4-FOOT LENSED INDUSTRIAL, FORMED STEEL HOUSING, WHITE FINISH, CURVED SEMI-FROST ACRYLIC DIFFUSER.	SURFACE/ CHAIN HUNG	48 W	80	3500K	5000	120-277V	COLUMBIA MPS SERIES LITHONIA ZL1D SERIES METALUX SNLED SERIES	F60
F60X	SAME AS FIXTURE TYPE 'F60,' EXCEPT EQUIPPED WITH AUTOMATIC LOAD CONTROL RELAY (ALCR).	SURFACE/ CHAIN HUNG	48 W	80	3500K	5000	120-277V		F60X
F70	2-FOOT NOMINAL UNDERCOUNTER LIGHT, WHITE DIFFUSER, MULTI-VOLT, ON/OFF ROCKER SWITCH, ANTI-MICROBIAL FINISH.	SURFACE	12 W	80	3500K	1200	120-277V	ACUITY HUC SERIES AIREY-THOMPSON 1SL SERIES FAIL-SAFE UCL SERIES	F70
F82	4-FOOT INDUSTRIAL, WET-LOCATION LISTED, GASKETED, NON-METALLIC HOUSING, RIBBED FROSTED ACRYLIC SHIELDING, STAINLESS STEEL LATCHES.	SURFACE/ SURFACE WALL	47 W	80	3500K	4850	120-277V	COLUMBIA LXEM SERIES METALUX 4VT2 SERIES LITHONIA FEM SERIES	F82
F83	2-FOOT INDUSTRIAL DOWNLIGHT, HIGH ABUSE, TRIANGULAR STEEL HOUSING, 0.25-INCH POLYCARBONATE LENS, COORDINATE LOCATION IN FIELD.	SURFACE/ SURFACE WALL	25 W	80	3500K	2000	120-277V	KENALL WCB SERIES NEW STAR 555S2 SERIES FAIL-SAFE FWLDL SERIES	F83
F84	RECTANGULAR HIGH-BAY FIXTURE, FROSTED ACRYLIC LENS, GENERAL DISTRIBUTION.	SUSPENDED	105 W	80	4000K	18000	120-277V	COLUMBIA HHLV SERIES COOPER HBLED SERIES LITHONIA IBG SERIES	F84
F84X	SAME AS FIXTURE TYPE 'F84,' EXCEPT EQUIPPED WITH AUTOMATIC LOAD CONTROL RELAY (ALCR).	SUSPENDED	105 W	80	4000K	18000	120-277V		F84X
F85	SAME AS FIXTURE TYPE 'F84,' EXCEPT OUTPUT.	SUSPENDED	76 W	80	4000K	12000	120-277V		F85
FA	OPEN DOWNLIGHT, FULL CUTOFF, 6-INCH DIAMETER APERTURE, WET LOCATION LISTED, CLEAR SEMI-SPECULAR REFLECTOR, SELF FLANGED, 0-10V DIMMING TO 10-PERCENT.	RECESSED	10 W	80	3000K	1000	120-277V	HALO COMMERCIAL HC6 SERIES LITHONIA LDN6 SERIES PRESCOLITE LBRP-6RD SERIES	FA
FD	CAST ALUMINUM FIXTURE, FULL CUTOFF, POWDERCOATED FINISH, TYPE IV DISTRIBUTION, WET LOCATION LISTED, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD AND CUSTOM FINISHES.	SURFACE WALL	109 W	70	3000K	13,000	120-277V	HUBBELL AIRO SERIES LITHONIA RSX SERIES LUMARK PREVAIL SERIES	FD
FE	SAME AS FIXTURE TYPE 'FD,' EXCEPT OUTPUT.	SURFACE WALL	51 W	70	3000K	6,500	120-277V		FE
FN	ARCHITECTURAL WALL PACK, FULL CUTOFF, WET LOCATION LISTED, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD AND CUSTOM FINISHES.	SURFACE WALL	11 W	70	3000K	1500	120-277V	HUBBELL SG SERIES LITHONIA WPX SERIES LUMARK XTOR SERIES	FN
X1	THERMOPLASTIC EXIT SIGN, WHITE HOUSING, SELF POWERED, SELF DIAGNOSTIC.	UNIVERSAL	4 W	80	RED	N/A	120-277V	DUAL LITE EVE SERIES SURE-LITES LPX SERIES LITHONIA LQM SERIES	X1
X6	HIGH ABUSE EXIT SIGN, ALUMINUM HOUSING, GASKETED, POLYCARBONATE SHIELD, NEMA 4X, VANDAL RESISTANT, WET LOCATION LISTED, SELF POWERED, SELF DIAGNOSTIC.	UNIVERSAL	4 W	80	RED	N/A	120-277V	DUAL-LITE SEWL SERIES SURE-LITES UX SERIES LITHONIA LV SERIES	X6

NOTES:

- CONTRACTOR SHALL SET OUTPUT AND COLOR TEMPERATURE OF ADJUSTABLE FIXTURES AS DIRECTED IN THE FIELD BY THE ENGINEER.
- VERIFY EXIT SIGN LETTERING COLOR WITH EXISTING FIXTURES IN BUILDING PRIOR TO ORDERING.

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REVISIONS:
1 Addendum 3 11/10/25

ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	DK	DW

DRAWING TITLE:
SCHEDULES - ELECTRICAL

CERTIFIED BY:
TIMOTHY E. HILL
REGISTERED
No. PE19800083
STATE OF INDIANA
PROFESSIONAL ENGINEER
10/24/2025

DRAWING NUMBER
E601

PROJECT NUMBER
2025022

WELD — PANELBOARD SCHEDULE

LOCATION : ELECTRICAL I-055A	**SCCR (AMPS RMS SYMM):** 22,000	**SERVICE :** 208Y/120V 3Φ 4-Wire+Ground	**MAIN:** MCB
MOUNTING: SURFACE		**NEMA:** 12	**AMP:** 225 A

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	SPARE		20 A	1	0 / 0			1	20 A		SPARE	2
3	SPARE		20 A	1		0 / 0		1	20 A		SPARE	4
5	SPARE		20 A	1			0 / 0	1	20 A		SPARE	6
7	SOUTH WELDING BAY DUPLEX		20 A	1	180 / 1000			1	20 A		CNC PLASMA CUTTER	8
9	SOUTH WELDING BAY DUPLEX		20 A	1		180 / 1000		1	20 A		DRILL PRESS	10
11	SOUTH WELDING BAY DUPLEX		20 A	1			180 / 360	1	20 A		CORD REEL	12
13	SOUTH WELDING BAY DUPLEX		20 A	1	180 / 360			1	20 A		CORD REEL	14
15	SOUTH WELDING BAY DUPLEX		20 A	1		180 / 360		1	20 A		CORD REEL	16
17	SOUTH WELDING BAY DUPLEX		20 A	1			180 / 360	1	20 A		CORD REEL	18
19	SOUTH WELDING BAY DUPLEX		20 A	1	180 / 360			1	20 A		CORD REEL	20
21	SOUTH WELDING BAY DUPLEX		20 A	1		180 / 360		1	20 A		CORD REEL	22
23	WEST WELDING BAY DUPLEX		20 A	1			180 / 360	1	20 A		CORD REEL	24
25	WEST WELDING BAY DUPLEX		20 A	1	180 / 1000			1	20 A		CORD DROP	26
27	WEST WELDING BAY DUPLEX		20 A	1		180 / 1000		1	20 A		CORD DROP	28
29	WEST WELDING BAY DUPLEX		20 A	1			180 / 1000	1	20 A		CORD DROP	30
31	WEST WELDING BAY DUPLEX		20 A	1	180 / 1000			1	20 A		CORD DROP	32
33	WEST WELDING BAY DUPLEX		20 A	1		180 / 1000		1	20 A		CORD DROP	34
35	WEST WELDING BY OVERHEAD DOOR		20 A	1			180 / 720	1	20 A		WELD LAB GENERAL USE RECEPTS	36
37	NORTH WELDING BAY DUPLEX		20 A	1	180 / 1080			1	20 A		RECEPT WELD STOR, CORRIDOR, EXTERIOR	38
39	NORTH WELDING BAY DUPLEX		20 A	1		180 / 860		1	20 A		AV/TEACH WELDING CLASSROOM I-054	40
41	NORTH WELDING BAY DUPLEX		20 A	1			180 / 1080	1	20 A		RECEPT WELDING CLASSROOM I-054	42
43	NORTH WELDING BAY DUPLEX		20 A	1	180 / 900			1	20 A		RECEPT WELDING CLASSROOM I-054	44
45	NORTH WELDING BAY DUPLEX		20 A	1		180 / 540		1	20 A		RECEPT LOCKERS, RRs	46
47	NORTH WELDING BAY DUPLEX		20 A	1			180 / 1656	1	20 A		OVERHEAD DOOR - WEST	48
49	NORTH WELDING BAY DUPLEX		20 A	1	180 / 1280			1	30 A		FCU-B - LOCKERS, VUV-A WELD CLASSRM	50
51	NORTH WELDING BAY DUPLEX		20 A	1		180 / 360		1	20 A		RECEPT RESTROOM I-052 & COORIDOR EWC	52
53	SPARE		20 A	1			0 / 1000	1	20 A		DOOR HARDWARE PWR - WELD & CONSTRUCT	54
55	SPARE		20 A	1	0 / 1000			1	20 A		FUTURE WINDOW SHADES	56
57	SPARE		20 A	1		0 / 1000		1	20 A		EF-E RECIRC/EXHAUST DAMPERS	58
59	SPARE		20 A	1			0 / 0	1	20 A		SPARE	60
61	SPARE		20 A	1	0 / 0			1	20 A		SPARE	62
63	SPARE		20 A	1		0 / 0		1	20 A		SPARE	64
65	SPARE		20 A	1			0 / 0	1	20 A		SPARE	66
67	SPARE		20 A	1	0 / 0			1	20 A		SPARE	68
69	SPARE		20 A	1		0 / 0		1	20 A		SPARE	70
71	SPARE		20 A	1			0 / 0	1	20 A		SPARE	72
				TOTALS :	9420 VA	7920 VA	7796 VA					

TOTAL CONNECTED LOAD (VA) : 25136 VA **TOTAL CONNECTED LOAD (AMPS) :** 70 A

REMARKS:
SHUNT TRIP MAIN BREAKER FOR EMERGENCY SHUTDOWN.
NOMINAL 28-INCH WIDE ENCLOSURE.

NOTES:

△1

AG — PANELBOARD SCHEDULE

LOCATION : HVAC I-150	**SCCR (AMPS RMS SYMM):** 22,000	**SERVICE :** 208Y/120V 3Φ 4-Wire+Ground	**MAIN:** MCB
MOUNTING: SURFACE		**NEMA:** 1	**AMP:** 225 A

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	SPARE		20 A	1	0 / 0			1	20 A		SPARE	2
3	SPARE		20 A	1		0 / 0		1	20 A		SPARE	4
5	SPARE		20 A	1			0 / 0	1	20 A		SPARE	6
7	EXHAUST FAN EF-G		20 A	3	233 / 360			1	20 A		LAB CORD REEL	8
9						233 / 360		1	20 A		LAB CORD REEL	10
11							233 / 360	1	20 A		LAB CORD REEL	12
13	CLASSROOM A/V AND PROJECTOR		20 A	1	860 / 360			1	20 A		LAB CORD REEL	14
15	CLASSROOM RECEPTS - SOUTH		20 A	1		720 / 360		1	20 A		LAB CORD REEL	16
17	CLASSROOM RECEPTS - SOUTHWEST		20 A	1			540 / 360	1	20 A		LAB CORD REEL	18
19	CLASSROOM RECEPTS - WEST		20 A	1	540 / 360			1	20 A		LAB CORD REEL	20
21	CLASSROOM RECEPTS - NORTH COUNTER		20 A	1		720 / 360		1	20 A		LAB CORD REEL	22
23	CLASSROOM RECEPTS - EAST		20 A	1			900 / 360	1	20 A		LAB CORD REEL	24
25	TEMP. CTRL. PANEL - AHU-1		20 A	1	1000 / 720			1	20 A		LAB SOUTH RECEPTS	26
27	TEMP. CTRL. PANEL - AHU-1		20 A	1		1000 / 360		1	20 A		LAB WEST COUNTER RECEPTS	28
29	TEMP. CTRL. PANEL - AHU-1		20 A	1			1000 / 540	1	20 A		LAB WEST COUNTER RECEPTS	30
31	HVAC & STORAGE ROOM RECEPTS		20 A	1	1440 / 720			1	20 A		LAB NORTHWEST RECEPTS	32
33	EXHAUST FAN - 1F RESTROOMS - EF-C		20 A	1		500 / 720		1	20 A		LAB NORTH RECEPTS	34
35	WATER HEATERS - WH-A, WH-B		20 A	1			1200 / 720	1	20 A		LAB EAST RECEPTS	36
37	CIRCULATION PUMP - CP-A		20 A	1	600 / 720			1	20 A		LAB EAST RECEPTS	38
39	COMPRESSOR AIR DRYER - AD-A		20 A	1		1368 / 360		1	20 A		LAB REFRIGERATOR	40
41	CLASSROOM CEILING DOCUMENT CAMERA		20 A	1			500 / 0					42
43	AHU-1 & AHU-2 LIGHTS & RECEPTACLES		20 A	1	1500 / 0							44
45	VUV-B1 - AGRICULTURE LAB		20 A	1		1176 / 0		1	20 A		SPARE	46
47	VUV-B2 - AGRICULTURE LAB		20 A	1			1176 / 0	1	20 A		SPARE	48
49	VUV-A - AGRICULTURE CLASSROOM		20 A	1	780 / 0			1	20 A		SPARE	50
51	PUH-A HVAC I-150		20 A	1		500 / 0		1	20 A		SPARE	52
53	SPARE		20 A	1			0 / 0	1	20 A		SPARE	54
55	SPARE		20 A	1	0 / 0			1	20 A		SPARE	56
57	SPARE		20 A	1		0 / 0		1	20 A		SPARE	58
59	SPARE		20 A	1			0 / 0	1	20 A		SPARE	60
				TOTALS :	10193 VA	8737 VA	7889 VA					

TOTAL CONNECTED LOAD (VA) : 26820 VA **TOTAL CONNECTED LOAD (AMPS) :** 74 A

REMARKS:
NOMINAL 28-INCH WIDE ENCLOSURE.

NOTES:

CON — PANELBOARD SCHEDULE

LOCATION : CONSTRUCTION STORAGE I-050A	**SCCR (AMPS RMS SYMM):** 22,000	**SERVICE :** 208Y/120V 3Φ 4-Wire+Ground	**MAIN:** MCB
MOUNTING: SURFACE		**NEMA:** 12	**AMP:** 225 A

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	SPARE		20 A	1	0 / 0			1	20 A		SPARE	2
3	SPARE		20 A	1		0 / 0		1	20 A		SPARE	4
5	SPARE		20 A	1			0 / 0	1	20 A		SPARE	6
7	VUV-A - CONSTRUCTION CLASSROOM		20 A	1	780 / 360			1	20 A		CORD REEL	8
9	TABLE SAW		30 A	2		2050 / 360		1	20 A		CORD REEL	10
11							2050 / 360	1	20 A		CORD REEL	12
13	PLANER		40 A	3	3800 / 360			1	20 A		CORD REEL	14
15						3800 / 360		1	20 A		CORD REEL	16
17							3800 / 360	1	20 A		CORD REEL	18
19	BAND SAW		30 A	1	2880 / 360			1	20 A		CORD REEL	20
21	DRILL PRESS		20 A	1		1500 / 360		1	20 A		CORD REEL	22
23	DRILL PRESS		20 A	1			1500 / 360	1	20 A		CORD REEL	24
25	MITER SAW		20 A	1	1500 / 360			1	20 A		CORD REEL	26
27	AV/TEACH CONSTRUCTION CLASSROOM I-050		20 A	1		860 / 360		1	20 A		CORD REEL	28
29	RECEPT CONSTRUCTION CLASSROOM I-050		20 A	1			900 / 360	1	20 A		CORD REEL	30
31	RECEPT CONSTRUCTION CLASSROOM I-050		20 A	1	900 / 360			1	20 A		CORD REEL	32
33	TV/TEACH - CONSTRUCTION LAB		20 A	1		680 / 360		1	20 A		CORD REEL	34
35	GENERAL USE RECEPTS - SOUTHEAST, STOR.		20 A	1			540 / 360	1	20 A		CORD REEL	36
37	GENERAL USE RECEPTS - SOUTH		20 A	1	360 / 360			1	20 A		CORD REEL	38
39	GENERAL USE RECEPTS - SOUTH		20 A	1		360 / 360		1	20 A		CORD REEL	40
41	GENERAL USE RECEPTS - SOUTH		20 A	1			540 / 1872	2	20 A		DUST COLLECTOR DC-1	42
43	GENERAL USE RECEPTS - SOUTHWEST		20 A	1	360 / 1872							44
45	GENERAL USE RECEPTS - WEST		20 A	1		720 / 1872		2	20 A		DUST COLLECTOR DC-2	46
47	GENERAL USE RECEPTS - NORTH		20 A	1			540 / 1872					48
49	GENERAL USE RECEPTS - NORTH		20 A	1	360 / 1920			1	20 A		DUST COLLECTOR DC-3	50
51	GENERAL USE RECEPTS - NORTHEAST		20 A	1		360 / 1000		1	20 A		FUTURE WINDOW SHADES	52
53	GARAGE DOOR - WEST		20 A	1			1656 / 0	1	20 A		SPARE	54
55	GARAGE DOOR - NORTH		20 A	1	1656 / 0			1	20 A		SPARE	56
57	SPARE		20 A	1		0 / 0		1	20 A		SPARE	58
59	SPARE		20 A	1			0 / 0	1	20 A		SPARE	60
61	SPARE		20 A	1	0 / 0			1	20 A		SPARE	62
63	SPARE		20 A	1		0 / 0		1	20 A		SPARE	64
65	SPARE		20 A	1			0 / 0	1	20 A		SPARE	66
67	SPARE		20 A	1	0 / 0			1	20 A		SPARE	68
69	SPARE		20 A	1		0 / 0		1	20 A		SPARE	70
71	SPARE		20 A	1			0 / 0	1	20 A		SPARE	72
				TOTALS :	18548 VA	15362 VA	17070 VA					

TOTAL CONNECTED LOAD (VA) : 50980 VA **TOTAL CONNECTED LOAD (AMPS) :** 142 A

REMARKS:
SHUNT TRIP MAIN BREAKER FOR EMERGENCY SHUTDOWN.
NOMINAL 28-INCH WIDE ENCLOSURE.

NOTES:

LTG — PANELBOARD SCHEDULE

LOCATION : HVAC I-150	**SCCR (AMPS RMS SYMM):** 22,000	**SERVICE :** 480Y/277V 3Φ 4-Wire+Ground	**MAIN:** MLO
MOUNTING: SURFACE		**NEMA:** 1	**AMP:** 100 A

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	SPARE		20 A	1	0 / 0			1	20 A		SPARE	2
3	SPARE		20 A	1		0 / 0		1	20 A		SPARE	4
5	SPARE		20 A	1			0 / 0	1	20 A		SPARE	6
7	LIGHTING - COSMETOLOGY INSTRUCT		20 A	1	1339 / 0			1	20 A		SPARE	8
9	LIGHTING - COSMETOLOGY SUPPORT RMS		20 A	1		874 / 0		1	20 A		SPARE	10
11	LIGHTING - MAIN COSMETOLOGY LAB		20 A	1			2092 / 0	1	20 A		SPARE	12
13	LTG - WELD & CONSTRUCT. SUPPORT, CORRS		20 A	1	1924 / 0			1	20 A		SPARE	14
15	LIGHTING - WELDING LAB		20 A	1		1354 / 0		1	20 A		SPARE	16
17	LTG - WELDING BAYS, WELD ELEC. CLOSET		20 A	1			740 / 0	1	20 A		SPARE	18
19	LIGHTING - CONSTRUCTION LAB		20 A	1	2310 / 0			1	20 A		SPARE	20
21	LIGHTING - AG LAB AND CLASSROOM		20 A	1		1640 / 0		1	20 A		SPARE	22
23	LIGHTING - HVAC, STORAGE, CORRIDOR		20 A	1			643 / 0	1	20 A		SPARE	24
25	EXTERIOR LIGHTING - NON-EGRESS	1	20 A	1	538 / 0			1	20 A		SPARE	26
27	SPARE		20 A	1		0 / 0		1	20 A		SPARE	28
29	SPARE		20 A	1			0 / 0	1	20 A		SPARE	30
				TOTALS :	6111 VA	3868 VA	3475 VA					

TOTAL CONNECTED LOAD (VA) : 13454 VA **TOTAL CONNECTED LOAD (AMPS) :** 16 A

REMARKS:

NOTES:
1. CIRCUIT CONTROLLED THROUGH PHOTOCELL AND RELAY.

COS — PANELBOARD SCHEDULE

LOCATION : LAUNDRY I-066	**SCCR (AMPS RMS SYMM):** 22,000	**SERVICE :** 208Y/120V 3Φ 4-Wire+Ground	**MAIN:** MCB
MOUNTING: RECESSED		**NEMA:** 1	**AMP:** 225 A

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	SPARE		20 A	1	0 / 0			1	20 A		SPARE	2
3	SPARE		20 A	1		0 / 0		1	20 A		SPARE	4
5	HAIR/MAKEUP SEAT 1		20 A	1			1000 / 1000	1	20 A		RECEPT COSMETOLOGY LAB I-070	6
7	HAIR/MAKEUP SEAT 1		20 A	1	1000 / 1000			1	20 A		RECEPT COSMETOLOGY LAB I-070	8
9	HAIR/MAKEUP SEAT 2		20 A	1		1000 / 1000		1	20 A		RECEPT COSMETOLOGY LAB I-070	10
11	HAIR/MAKEUP SEAT 2		20 A	1			1000 / 1000	1	20 A		RECEPT COSMETOLOGY LAB I-070	12
13	HAIR/MAKEUP SEAT 3		20 A	1	1000 / 1000			1	20 A		RECEPT COSMETOLOGY LAB I-070	14
15	HAIR/MAKEUP SEAT 3		20 A	1		1000 / 1000		1	20 A		RECEPT COSMETOLOGY LAB I-070	16
17	HAIR/MAKEUP SEAT 4		20 A	1			1000 / 1000	1	20 A		RECEPT COSMETOLOGY LAB I-070	18
19	HAIR/MAKEUP SEAT 4		20 A	1	1000 / 1000			1	20 A		RECEPT COSMETOLOGY LAB I-070	20
21	HAIR/MAKEUP SEAT 5		20 A	1		1000 / 1000		1	20 A		RECEPT COSMETOLOGY LAB I-070	22
23	HAIR/MAKEUP SEAT 5		20 A	1			1000 / 1000	1	20 A		RECEPT COSMETOLOGY LAB I-070	24
25	HAIR/MAKEUP SEAT 6		20 A	1	1000 / 1000			1	20 A		RECEPT COSMETOLOGY LAB I-070	26
27	HAIR/MAKEUP SEAT 6		20 A	1		1000 / 1000		1	20 A		RECEPT COSMETOLOGY LAB I-070	28
29	HAIR/MAKEUP SEAT 7		20 A	1			1000 / 1000	1	20 A		RECEPT COSMETOLOGY LAB I-070	30
31	HAIR/MAKEUP SEAT 7		20 A	1	1000 / 1000			1	20 A		RECEPT COSMETOLOGY LAB I-070	32
33	HAIR/MAKEUP SEAT 8		20 A	1		1000 / 1000		1	20 A		RECEPT COSMETOLOGY LAB I-070	34
35	HAIR/MAKEUP SEAT 8		20 A	1			1000 / 1000	1	20 A		RECEPT COSMETOLOGY LAB I-070	36
37	HAIR/MAKEUP SEAT 9		20 A	1	1000 / 1000			1	20 A		RECEPT COSMETOLOGY LAB I-070	38
39	HAIR/MAKEUP SEAT 9		20 A	1		1000 / 1000		1	20 A		RECEPT COSMETOLOGY LAB I-070	40
41	HAIR/MAKEUP SEAT 10		20 A	1			1000 / 1000	1	20 A		RECEPT COSMETOLOGY LAB I-070	42
43	HAIR/MAKEUP SEAT 10		20 A	1	1000 / 1000			1	20 A		RECEPT COSMETOLOGY LAB I-070	44
45	HAIR/MAKEUP SEAT 11		20 A	1		1000 / 1000		1	20 A		RECEPT COSMETOLOGY LAB I-070	46
47	HAIR/MAKEUP SEAT 11		20 A	1			1000 / 1000	1	20 A		RECEPT COSMETOLOGY LAB I-070	48
49	HAIR/MAKEUP SEAT 12		20 A	1	1000 / 1000			1	20 A		RECEPT COSMETOLOGY LAB I-070	50
51	HAIR/MAKEUP SEAT 12		20 A	1		1000 / 1000		1	20 A		RECEPT COSMETOLOGY LAB I-070	52
53	HAIR/MAKEUP SEAT 13		20 A	1			1000 / 1000	1	20 A		RECEPT COSMETOLOGY LAB I-070	54
55	HAIR/MAKEUP SEAT 13		20 A	1	1000 / 1000			1	20 A		RECEPT COSMETOLOGY LAB I-070	56
57	HAIR/MAKEUP SEAT 14		20 A	1		1000 / 1000		1	20 A		RECEPT COSMETOLOGY LAB I-070	58
59	HAIR/MAKEUP SEAT 14		20 A	1			1000 / 1000	1	20 A		RECEPT COSMETOLOGY LAB I-070	60
61	HAIR/MAKEUP SEAT 15		20 A	1	1000 / 1000			1	20 A		RECEPT COSMETOLOGY LAB I-070	62
63	HAIR/MAKEUP SEAT 15		20 A	1		1000 / 1000		1	20 A		RECEPT COSMETOLOGY LAB I-070	64
65	HAIR/MAKEUP SEAT 16		20 A	1			1000 / 1000	1	20 A		RECEPT COSMETOLOGY LAB I-070	66
67	HAIR/MAKEUP SEAT 16		20 A	1	1000 / 1000			1	20 A		RECEPT COSMETOLOGY LAB I-070	68
69	HAIR/MAKEUP SEAT 17		20 A	1		1000 / 1000		1	20 A		RECEPT COSMETOLOGY LAB I-070	70
71	HAIR/MAKEUP SEAT 17		20 A	1			1000 / 1000	1	20 A		RECEPT COSMETOLOGY LAB I-070	72
73	HAIR/MAKEUP SEAT 18		20 A	1	1000 / 1000			1	20 A		RECEPT COSMETOLOGY LAB I-070	74
75	HAIR/MAKEUP SEAT 18		20 A	1		1000 / 1000		1	20 A		RECEPT COSMETOLOGY LAB I-070	76
77	HAIR/MAKEUP SEAT 19		20 A	1			1000 / 1000	1	20 A		RECEPT COSMETOLOGY LAB I-070	78
79	HAIR/MAKEUP SEAT 19		20 A	1	1000 / 1000			1	20 A		RECEPT COSMETOLOGY LAB I-070	80
81	HAIR/MAKEUP SEAT 20		20 A	1		1000 / 1000		1	20 A		RECEPT COSMETOLOGY LAB I-070	82
83	HAIR/MAKEUP SEAT 20		20 A	1			1000 / 1000	1	20 A		RECEPT COSMETOLOGY LAB I-070	84
				TOTALS :	26000 VA	26000 VA	28000 VA					

TOTAL CONNECTED LOAD (VA) : 80000 VA **TOTAL CONNECTED LOAD (AMPS) :** 222 A

REMARKS:
NOMINAL 28-INCH WIDE ENCLOSURE.

NOTES:

COS2 — PANELBOARD SCHEDULE

LOCATION : LAUNDRY I-066	**SCCR (AMPS RMS SYMM):** 22,000	**SERVICE :** 208Y/120V 3Φ 4-Wire+Ground	**MAIN:** MCB
MOUNTING: RECESSED		**NEMA:** 1	**AMP:** 225 A

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	SPARE		20 A	1	0 / 0			1	20 A		SPARE	2
3	SPARE		20 A	1		0 / 0		1	20 A		SPARE	4
5	SPARE		20 A	1			0 / 0	1	20 A		SPARE	6
7	RECEPT OFFICE I-071		20 A	1	1620 / 860			1	20 A		AV/TEACH COSMETOLOGY INSTRUCTION I-061	8
9	RECEPT VESTIBULE, WAITING, RR, EXTERIOR		20 A	1		1580 / 1440		1	20 A		COSMETOLOGY INSTRUCTION I-061	10
11	RECEPT RESTROOMS		20 A	1			900 / 180	2	20 A	G	CORD REEL - DEMO STATION COSMETOLOGY INSTRUCTION I-061	12
13	EXHAUST FAN COSMETOLOGY RR EF-B		20 A	1	500 / 180							14
15	RECEPT COSMETOLOGY CHECK-IN I-070		20 A	1		720 / 180		2	20 A	G	CORD REEL COSMETOLOGY INSTRUCTION I-061	16
17	TIMECLOCK		20 A	1			500 / 180					18
19	RECEPT CORRIDOR, STORAGE, EXTERIOR		20 A	1	1080 / 180			2	20 A	G	CORD REEL COSMETOLOGY INSTRUCTION I-061	20
21	RECEPT LAUNDRY I-066		20 A	1		768 / 180						22
23	WASHER LAUNDRY I-066		20 A	1			500 / 180	2	20 A	G	CORD REEL COSMETOLOGY INSTRUCTION I-061	24
25	WASHER LAUNDRY I-066		20 A	1	500 / 180							26
27	DRYER LAUNDRY I-066		40 A	2		3000 / 180		2	20 A	G	CORD REEL COSMETOLOGY INSTRUCTION I-061	28
29							3000 / 180					30
31	DRYER LAUNDRY I-066		40 A	2	3000 / 180			2	20 A	G	CORD REEL COSMETOLOGY INSTRUCTION I-061	32
33						3000 / 180						34
35	CUH-A - VESTIBULE I-058, CORRIDOR I-099A		20 A	1			1000 / 180	2	20 A	G	CORD REEL COSMETOLOGY INSTRUCTION I-061	36
37	CHAIR RECEPTS PEDICURES I-067		20 A	1	360 / 180							38
39	CHAIR RECEPTS PEDICURES I-067		20 A	1		360 / 860		1	20 A		AV/TEACH COSMETOLOGY INSTRUCTION I-064	40
41	COUNTER RECEPTS PEDICURES I-067		20 A	1			744 / 1440	1	20 A		COSMETOLOGY INSTRUCTION I-064	42
43	RECEPTS COSMETOLOGY LAB I-070		20 A	1	540 / 500			2	20 A	G	CORD REEL - DEMO STATION COSMETOLOGY INSTRUCTION I-064	44
45	CHAIR/WALL RECEPTS FACIALS I-068		20 A	1		720 / 500						46
47	COUNTER RECEPTS FACIALS I-068		20 A	1			744 / 500	2	20 A	G	CORD REEL COSMETOLOGY INSTRUCTION I-064	48
49	WASH SEAT 1, 2		20 A	1	1000 / 500							50
51	WASH SEAT 3, 4		20 A	1		1000 / 500		2	20 A	G	CORD REEL COSMETOLOGY INSTRUCTION I-064	52
53	WASH SEAT 5, 6		20 A	1			1000 / 500					54
55	WASH SEAT 7, 8		20 A	1	1000 / 500			2	20 A	G	CORD REEL COSMETOLOGY INSTRUCTION I-064	56
57	WASH SEAT 9, 10		20 A	1		1000 / 500						58
59	DRYER SEAT 1		20 A	1			1000 / 500	2	20 A	G	CORD REEL COSMETOLOGY INSTRUCTION I-064	60
61	DRYER SEAT 2		20 A	1	1000 / 500							62
63	DRYER SEAT 3		20 A	1		1000 / 500		2	20 A	G	CORD REEL COSMETOLOGY INSTRUCTION I-064	64
65	DRYER SEAT 4		20 A	1			1000 / 500					66
67	DRYER SEAT 5		20 A	1	1000 / 500			2	20 A	G	CORD REEL COSMETOLOGY INSTRUCTION I-064	68
69	ENTRY VESTIBULE ADA DOOR OPERATOR		20 A	1		1000 / 500						70
71	VESTIBULE DOOR HARDWARE		20 A	1			1000 / 480	1	30 A		(4) FCU-As - CORRIDOR I-099B	72
73	CORRIDOR, S EXTERIOR DOOR HARDWARE		20 A	1	1000 / 0			1	20 A		SPARE	74
75	INSTRUCTION CEILING DOCUMENT CAMERAS		20 A	1		1000 / 0		1	20 A		SPARE	76
77	SPARE		20 A	1			0 / 0	1	20 A		SPARE	78
79	SPARE		20 A	1	0 / 767			3	20 A		EXHAUST FANS - COSMETOLOGY EF-F, EF-H1, EF-H2	80
81	SPARE		20 A	1		0 / 767						82
83	SPARE		20 A	1			0 / 767					84
				TOTALS :	17627 VA	21435 VA	16975 VA					

TOTAL CONNECTED LOAD (VA) : 56036 VA **TOTAL CONNECTED LOAD (AMPS) :** 156 A

REMARKS:
NOMINAL 28-INCH WIDE ENCLOSURE.

NOTES:
G. PROVIDE GFCI-TYPE CIRCUIT BREAKER.

DISTRIBUTION PANEL

PANEL ID:	480V DIST.	**LOCATION:**	HVAC I-150
CONFIGURATION:	480Y/277V 3Φ 4-Wire+Ground	**ENCLOSURE:**	1
MAIN:	800 A MLO	**TRIM:**	SURFACE
SCCR (AMPS RMS SYMM.):	65,000	**MODIFICATIONS:**	

NO.	LOAD NAME	RATING	POLES	PHASE A	PHASE B	PHASE C
1	AHU-1	20 A	3	14 A	14 A	14 A
2	AHU-2	20 A	3	14 A	14 A	14 A
3	AHU-3	40 A	3	21 A	21 A	21 A
4	FEU-A1	80 A	3	40 A	40 A	40 A
5	FEU-A2	80 A	3	40 A	40 A	40 A
6	PANELBOARD - LIGHTING 'LTG'	100 A	3	22 A	14 A	13 A
7	480V TO 208V TRANSFORMER	350 A	3	300 A	291 A	284 A
8	CNC PLASMA CUTTER (WELDING)	70 A	3	48 A	48 A	48 A
9	EXHAUST FAN - PLASMA TABLE HOOD 'EF-D'	15 A	3	3 A	3 A	3 A
10	EXHAUST FAN - CONSTRUCTION TRADES CIRCULATION 'EF-E'	15 A	3	5 A	5 A	5 A
11	AIR COMPRESSOR - 'AC-A'	40 A	3	21 A	21 A	21 A
12	SPARE	20 A	3	--	--	--
13	SPARE	15 A	3	--	--	--
14	SPACE	--	1	--	--	--
15	SPACE	--	3	--	--	--

TOTAL LOAD (VA): 425903 VA **TOTAL LOAD (A):** 512 A

REMARKS: BASIS OF DESIGN: EATON PRL4x - MINIMUM 90"H x 36"W x 10.4"D.

DISTRIBUTION PANEL

PANEL ID:	240V DIST.	**LOCATION:**	ELECTRICAL I-055A
CONFIGURATION:	240V 3Φ 3-Wire+Ground	**ENCLOSURE:**	12
MAIN:	1200 A MCB	**TRIM:**	SURFACE
SCCR (AMPS RMS SYMM.):	65,000	**MODIFICATIONS:**	

NO.	LOAD NAME	RATING	POLES	PHASE A	PHASE B	PHASE C
1	METAL SHEAR	60 A	2	0 A	28 A	28 A
2	BUS DUCT - NORTH	400 A	3	367 A	367 A	367 A
3	BUS DUCT - SOUTH	400 A	3	360 A	360 A	360 A
4	BUS DUCT - WEST	400 A	3	342 A	342 A	342 A
5	SPARE	400 A	3	--	--	--
6	SPACE	--	3	--	--	--
7	SPACE	--	3	--	--	--
8	SPACE	--	3	--	--	--

TOTAL LOAD (VA): 451092 VA **TOTAL LOAD (A):** 1085 A

REMARKS: BASIS OF DESIGN: EATON PRL4x - MINIMUM 90"H x 44"W x 10.4"D.
SHUNT TRIP MAIN BREAKER FOR EMERGENCY SHUTDOWN.

DISTRIBUTION PANEL

PANEL ID:	208V DIST.	**LOCATION:**	HVAC I-150
CONFIGURATION:	208Y/120V 3Φ 4-Wire+Ground	**ENCLOSURE:**	1
MAIN:	800 A MCB	**TRIM:**	SURFACE
SCCR (AMPS RMS SYMM.):	65,000	**MODIFICATIONS:**	

NO.	LOAD NAME	RATING	POLES	PHASE A	PHASE B	PHASE C
1	PANELBOARD - AGRICULTURE 'AG'	225 A	3	86 A	74 A	66 A
2	PANELBOARD - CONSTRUCTION 'CON"	225 A	3	157 A	128 A	144 A
3	PANELBOARD - COSMETOLOGY 'COS'	225 A	3	217 A	217 A	233 A
4	PANELBOARD - COSMETOLOGY 'COS2'	225 A	3	148 A	179 A	141 A
5	PANELBOARD - WELDING 'WELD'	225 A	3	79 A	66 A	65 A
6	EXHAUST FAN - WELDING LAB 'EF-A'	15 A	3	8 A	8 A	8 A
7	SPARE	225 A	3	--	--	--
8	SPARE	225 A	3	--	--	--
9	SPACE	--	3	--	--	--
10	SPACE	--	3	--	--	--
11	SPACE	--	3	--	--	--
12	SPACE	--	3	--	--	--

TOTAL LOAD (VA): 241779 VA **TOTAL LOAD (A):** 671 A

REMARKS: BASIS OF DESIGN: EATON PRL4x - MINIMUM 90"H x 36"W x 10.4"D.

BCSC
TOGETHER WE LEARN

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PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 S Marr Rd
Columbus, Indiana 47201

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, the trade contractors shall furnish all items required for the proper execution and completion of the work.

△# REVISIONS:

1	Addendum 3	11/10/25

ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	DK	DW

DRAWING TITLE:
SCHEDULES - PANELBOARDS

CERTIFIED BY:
TIMOTHY E. HILL REGISTERED No. PE19800083 STATE OF INDIANA PROFESSIONAL ENGINEER
Timothy E. Hill 10/24/2025

DRAWING NUMBER
E611

PROJECT NUMBER
2025022

AE1-EM — PANELBOARD SCHEDULE

LOCATION : MECHANICAL/ELECTRICAL | **SCCR (AMPS RMS SYMM):** 22,000 | **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground | **MAIN:** MCB
MOUNTING: SURFACE | **NEMA:** 1 | **AMP:** 100 A

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	2
3	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	4
5	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	6
7	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	8
9	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	10
11	SPARE		20 A	1			0 / 0	1	20 A		SPARE	12
13	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	14
15	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	16
17	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	18
19	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	20
21	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	22
23	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	24
25	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	26
27	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	28
29	GENERATOR BLOCK HEATER	1	30 A	2	2000 / 0							
31							2000 / 0	1	20 A		SPARE	30
33	GENERATOR BATTERY CHARGER	1	20 A	1		2000 / 0		1	20 A		SPARE	32
35	BOILER EMERGENCY SHUTDOWN CONTACTOR	1	20 A	1			1000 / 0	1	20 A		SPARE	34
37	SPARE		20 A	1	0 / 0			1	20 A		SPARE	36
39	SPARE		20 A	1		0 / 0		1	20 A		SPARE	38
41	SPARE		20 A	1			0 / 0	1	20 A		SPARE	40
											SPARE	42

TOTALS : 2000 VA | 2000 VA | 3000 VA

TOTAL CONNECTED LOAD (VA) : 7000 VA | **TOTAL CONNECTED LOAD (AMPS) :** 19 A

REMARKS:

NOTES:
1. VERIFY LOAD AND CIRCUIT BREAKER REQUIRED WITH GENERATOR INSTALLER.

BASE BID:

1 • CONNECT BOILER EMERGENCY SHUTDOWN CONTACTOR TO SPARE CIRCUIT BREAKER IN EXISTING PANELBOARD AE1-EM.

ALTERNATE BID FOR NEW GENERATOR:

- PROVIDE NEW PANELBOARD AS SHOWN. RECONNECT EXISTING LOADS.
- SEE DRAWING E300 AND EMERGENCY RISER DIAGRAMS.

LE1-EM — PANELBOARD SCHEDULE

LOCATION : MECHANICAL/ELECTRICAL | **SCCR (AMPS RMS SYMM):** 22,000 | **SERVICE :** 480Y/277V 3Φ 4-Wire+Ground | **MAIN:** MCB
MOUNTING: SURFACE | **NEMA:** 1 | **AMP:** 225 A

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	SPARE		20 A	1	0 / 0			1	20 A		SPARE	2
3	SPARE		20 A	1		0 / 0		1	20 A		SPARE	4
5	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	6
7	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	8
9	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	10
11	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	12
13	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	14
15						2000 / 0						16
17	EMERG. TRANSFORMER, THIS ROOM		50 A	3			2000 / 0	3	70 A		PANELBOARD 'AC1-EM'	18
19					3000 / 0							20
21						0 / 1194		1	20 A		EM LIGHTING - FIRST FLOOR - UNIT I	22
23	PANELBOARD 'AD1-EM'		70 A	3			0 / 351	1	20 A		EM LIGHTING - SECOND FLOOR - UNIT I	24
25					0 / 64			1	20 A	1	EXTERIOR EGRESS LIGHTING - UNIT I	26
27	SPARE		20 A	1		0 / 0		1	20 A		SPARE	28
29	SPARE		20 A	1			0 / 0	1	20 A		SPARE	30
31	SPARE		20 A	1	0 / 0			1	20 A		SPARE	32
33	SPARE		20 A	1		0 / 0		1	20 A		SPARE	34
35	SPARE		20 A	1			0 / 0	1	20 A		SPARE	36
37	SPARE		20 A	1	0 / 0			1	20 A		SPARE	38
39	SPARE		20 A	1		0 / 0		1	20 A		SPARE	40
41	SPARE		20 A	1			0 / 0	1	20 A		SPARE	42

TOTALS : 3064 VA | 3194 VA | 2351 VA

TOTAL CONNECTED LOAD (VA) : 8609 VA | **TOTAL CONNECTED LOAD (AMPS) :** 10 A

REMARKS:

NOTES:
1. CIRCUIT CONTROLLED THROUGH PHOTOCELL AND RELAY.

BASE BID:

- CONNECT NEW EMERGENCY LIGHTING CIRCUITS TO CIRCUITS LISTED IN EXISTING PANELBOARD 'LE1-EM' (GENERAL ELECTRIC NHB).
- PROVIDE 20A/1P CIRCUIT BREAKERS IN EXISTING SPACES FOR NEW CIRCUITS.

ALTERNATE BID FOR NEW GENERATOR:

- PROVIDE NEW PANELBOARD AS SHOWN. RECONNECT EXISTING LOADS.
- SEE DRAWING E300 AND EMERGENCY RISER DIAGRAMS.

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Consulting Engineers
732 North Capitol Avenue
Indianapolis, IN 46204
Phone: (317) 634-4672
Fax: (317) 638-8725

PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 S Marr Rd
Columbus, Indiana 47201

SCOPE DRAWINGS:
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REVISIONS:
1 Addendum 3 11/10/25

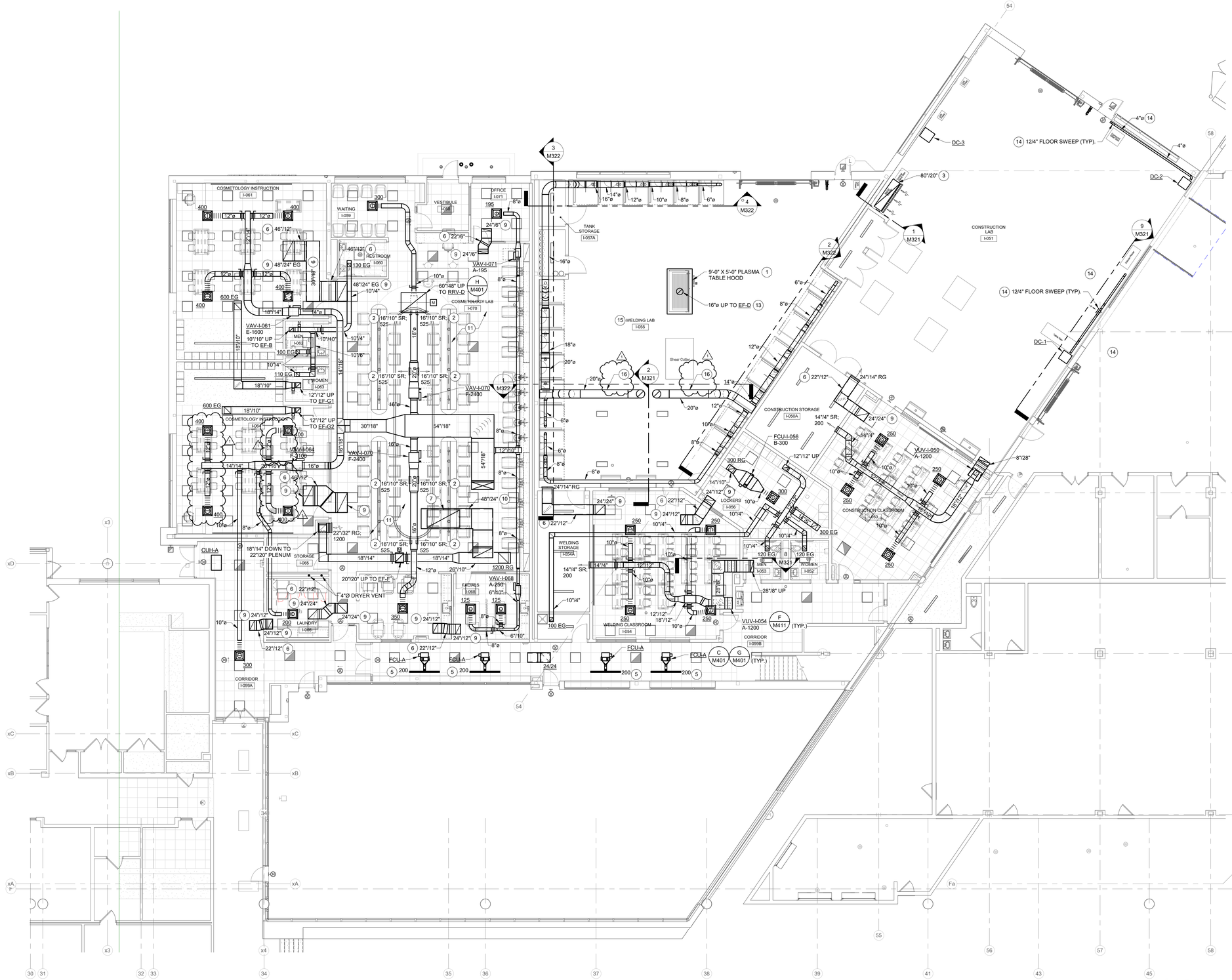
ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	DK	DW

DRAWING TITLE:
SCHEDULES - PANELBOARDS - EMERGENCY

CERTIFIED BY:
TIMOTHY E. HILL REGISTERED No. PE19800083 STATE OF INDIANA PROFESSIONAL ENGINEER
10/24/2025

DRAWING NUMBER
E612

PROJECT NUMBER
2025022



RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES - AIR DISTRIBUTION:

1. FLEX DUCT CONNECTIONS TO DIFFUSERS SHALL BE A MAXIMUM OF 3'-0" IN LENGTH.
2. BRANCH DUCTS SHALL HAVE 45° BOOT TAP FROM SIDE OF MAIN. NO SPIN-IN FITTING ALLOWED. SEE DETAIL 'A' / M401.
3. PROVIDE VOLUME DAMPERS IN ALL BRANCH DUCTS TO DIFFUSERS, EXHAUST GRILLES, ETC. WHETHER SHOWN OR NOT. THESE DAMPERS ARE TO BE USED FOR SYSTEM BALANCE. DAMPERS IN DIFFUSERS, REGISTERS, ETC. SHALL NOT BE USED FOR AIR BALANCE.
4. ALL VOLUME DAMPERS SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS, IF POSSIBLE. IF NOT POSSIBLE, AND VOLUME DAMPER IS INSTALLED ABOVE A HARD CEILING OR IN AN INACCESSIBLE LOCATION, THEN PROVIDE ACCESS PANEL IN CEILING OR INSTALL A REMOTE DAMPER ACTUATOR. REMOTE DAMPER ACTUATOR LIKE YOUNG REGULATOR CO. 1200 WORM GEAR WITH FLEX SHAFT ASSEMBLY AND 7/8" 896-FS CEILING TERMINATION OR YOUNG EBD ELECTRONIC BALANCING DAMPER WITH EBDP ELECTRONIC BALANCING DAMPER POSITIONER AND VISUAL INDICATION OF DAMPER POSITION OR APPROVED EQUAL. PROVIDE DRAWING SHOWING WHICH INTERFACE OPERATES WHICH DAMPER.
5. SEE REFLECTED CEILING PLAN FOR EXACT LOCATION OF AIR OUTLETS.
6. COORDINATE AND ADJUST DIFFUSER LOCATIONS, AS NEEDED.
7. SEE DRAWING M601 FOR CEILING DIFFUSER/EXHAUST AND RETURN REGISTER SCHEDULE.
8. ALL TRANSFER OPENINGS TO BE ABOVE CEILINGS.
9. PROVIDE INTERNALLY LINED TRANSFER DUCTS WITH ELBOW IN WALLS OF ALL ROOMS ABOVE CEILING WHETHER SHOWN OR NOT. SEE A-SERIES DRAWINGS FOR WALLS TO DECK.
10. ALL RETURN GRILLES TO HAVE ACOUSTICAL ELBOW. SEE PLENUM RETURN GRILLE SCHEDULE, DRAWING M601 SCHEDULES - AIR DISTRIBUTION.
11. SUPPLY DIFFUSERS TO BE INSTALLED NO CLOSER THAN 4'-0" TO ALL SMOKE DETECTORS. REFER TO T-SERIES AND E-SERIES DRAWINGS FOR ADDITIONAL CEILING INSTALLED DEVICES. COORDINATE AND ADJUST DIFFUSER LOCATIONS, AS NEEDED.
12. SHEET METAL CONTRACTOR TO PROVIDE DUCT ACCESS DOORS FOR MOTORIZED DAMPERS, AIR FLOW MEASURING STATIONS, AND ON BOTH SIDES OF THE REHEAT COILS. COORDINATE WITH MECHANICAL CONTRACTOR AND GENERAL TRADES CONTRACTOR.
13. EXTERNALLY INSULATE ALL FLAT OVAL AND ROUND DUCTWORK. ALL EXPOSED DUCTWORK INSULATION SHALL BE PHENOLIC FOAM WITH PAINT, COLOR BY ARCHITECT. ALL EXPOSED INSULATION TO BE INSTALLED NEATLY TO THE SATISFACTION OF ENGINEER. ALL FLAT OVAL ABOVE CEILING MAY BE FLEXIBLE FIBERGLASS.
14. EACH AND EVERY EXHAUST FAN TO HAVE INSULATED, TIGHT-CLOSING ISOLATION DAMPER WHETHER SHOWN OR NOT.
15. EXTERNALLY INSULATE ALL SUPPLY DUCTWORK CONCEALED ABOVE CEILINGS WITH FLEXIBLE FIBERGLASS. EXPOSED SUPPLY DUCTWORK TO BE DUAL WALL INSULATED ROUND DUCTWORK WITH PAINT GRIP FINISH. ALL EXPOSED DUCTWORK TO BE INSTALLED NEATLY TO THE SATISFACTION OF THE ENGINEER.
16. THESE ARE NOT FABRICATION DRAWINGS. THESE DRAWINGS ARE NOT INTENDED TO SHOWN ALL OFFSETS AS REQUIRED FOR PROPER DUCTWORK INSTALLATION. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND PREPARE FABRICATION DRAWINGS BASED ON EXISTING CONDITIONS. ALL ADDITIONAL OFFSETS SHALL BE INCLUDED IN BID PRICE.
17. VERIFY FIT OF DUCTWORK PRIOR TO ANY FABRICATION. CONTRACTOR WILL NOT BE REIMBURSED FOR DUCTWORK THAT WILL NOT FIT.
18. REFERENCE M400 SERIES DRAWINGS FOR TYPICAL AND SPECIFIC INSTALLATION REQUIREMENTS FOR EQUIPMENT, ETC.
19. WORKMANSHIP FOR ALL DUCTWORK AND EQUIPMENT MUST BE IN COMPLIANCE WITH SMACNA STANDARDS.
20. INSTALL DUCTS ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION - METAL AND FLEXIBLE" UNLESS OTHERWISE INDICATED.
21. SEAL DUCT SEAMS AND JOINTS FOR DUCT STATIC PRESSURE AND LEAKAGE CLASSES SPECIFIED IN "PERFORMANCE REQUIREMENTS" ARTICLE, ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE", TABLE 1-1, "STANDARD DUCT SEALING REQUIREMENTS", UNLESS OTHERWISE INDICATED.
22. VAV BOXES AND ALL EQUIPMENT, VALVES, CONTROLLERS, ETC., REQUIRING SERVICE ABOVE CEILINGS SHALL BE INSTALLED NO HIGHER THAN 18" ABOVE CEILING UNLESS APPROVED BY ENGINEER.
23. SEE ALSO PM001 FOR ADDITIONAL GENERAL NOTES.

PLAN NOTES:

1. PLASMA TUBE HOOD SHALL BE SUPPORTED ON EACH CORNER FROM ALL-THREAD FASTENED TO STRUCTURE ABOVE.
2. SUPPLY REGISTER LIKE PRICE SDG WITH AIR SCOOP. DOUBLE DEFLECTION. INSTALL AT 30° FROM HORIZONTAL.
3. SIX (6) 24"/24" MERV 6 FILTER BANK. FRONT LOADED. DUCT TO TERMINATE APPROXIMATELY 1'-0" AFF.
4. OPEN ENDED DUCT WITH HARDWARE CLOTH.
5. LINEAR SLOT DIFFUSER LIKE PRICE SDS WITH SDB PLENUM. 6'-0" LENGTH. (2) 1/2" SLOTS. 8" CONNECTION.
6. TRANSFER DUCT WITH 1" INTERNAL LINING.
7. 6'-6" x 3'-6" OPENING IN THE TOP OF DUCT. COVER WITH HARDWARE CLOTH.
8. INSTALL RETURN DUCT IN JOIST SPACE. MAINTAIN 1'-0" CLEAR TO UNDERSPACE OF ROOF DECK. INTERNALLY LINE RETURN TO AHU.
9. EGGCRATE GRILLE MOUNTED IN CEILING GRID.
10. INTERNALLY LINE RETURN DUCT TO AHU.
11. EXPOSED RECTANGULAR DUCT TO BE INTERNALLY LINED. EXPOSED ROUND DUCT SHALL BE DUAL WALL. DUCT SHALL HAVE PAINT GRIP FINISH. DUCT SHALL BE PAINTED BY OTHERS. COLOR BY ARCHITECT.
12. FUME ARM BY OTHERS,
13. SUPPORT EXHAUST DUCT AT STRUCTURE ABOVE.
14. PROVIDE BLAST GATE AT EACH DROP TO EQUIPMENT/FLOOR SWEEP. FINAL CONNECTION TO EQUIPMENT IS BY OTHERS.
15. PROVIDE FUME EXTRACTOR ARM, QTY. 22 (1 PER WELDING BOOTH). CONNECT TO 6" TAP IN EACH WELDING BAY. LIKE MILLER FILTAIR 6 IN X 7 FT STANDARD FUME EXTRACTION ARM.
16. SPARK ARRESTOR BY FEU MANUFACTURER. REFER TO SECTION 23 34 23.

FIRST FLOOR PLAN - AIR DISTRIBUTION

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

NORTH

0 2 4 6 8 16 24 32

1 2 3 4

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PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 S Marr Rd
Columbus, Indiana 47201

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REVISIONS:

1	Addendum 3	11/10/25

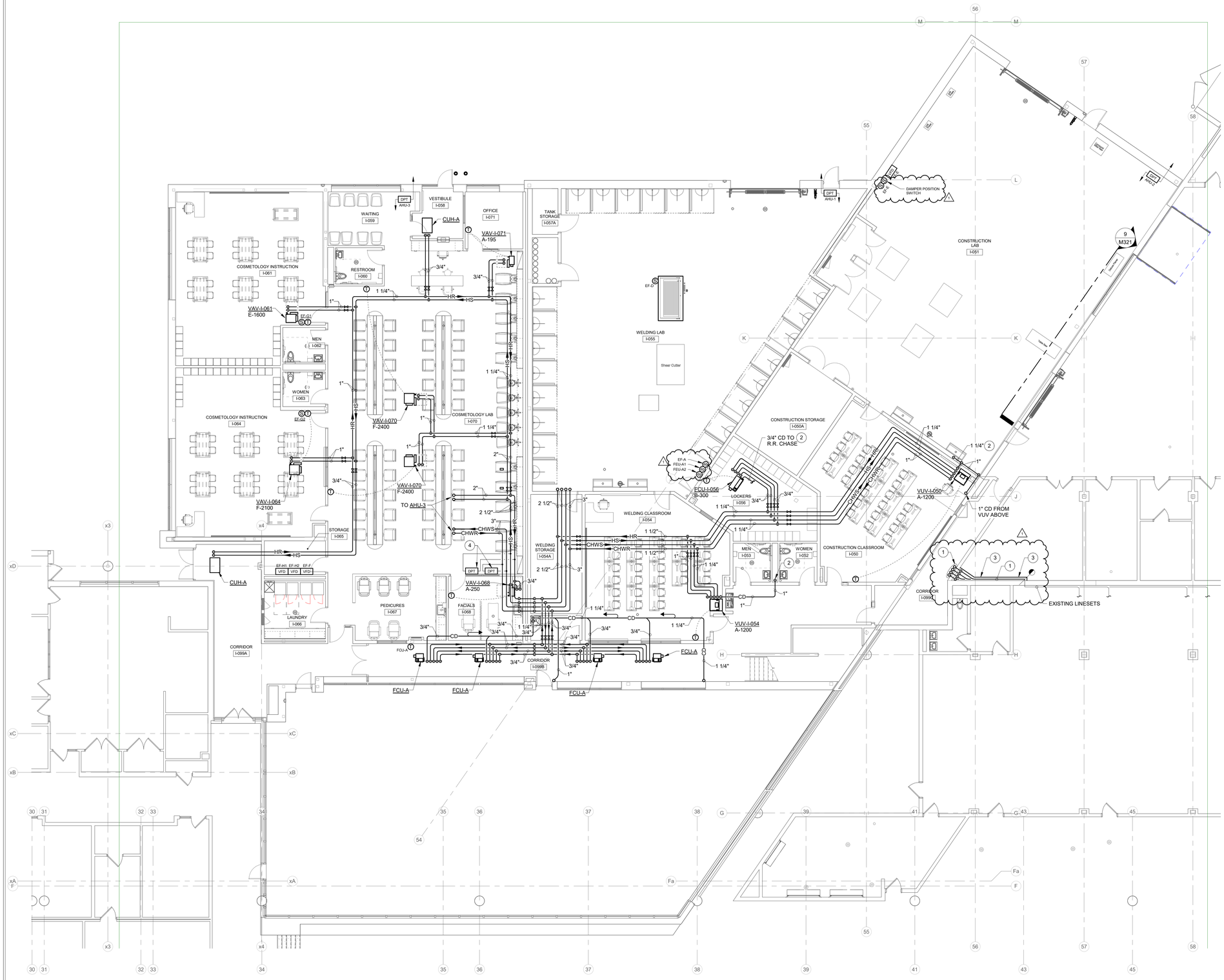
ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	DJU	DJU

DRAWING TITLE:
FIRST FLOOR PLAN - AIR DISTRIBUTION

CERTIFIED BY:
DANIEL JOSEPH ULRICH
REGISTERED
No. 12100624
STATE OF INDIANA
PROFESSIONAL ENGINEER
10/24/2025

DRAWING NUMBER
M201

PROJECT NUMBER
2025022



FIRST FLOOR PLAN - HYDRONICS

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

NORTH

0 2 4 6 8 16 24 32

1 2 3 4

RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES - HYDRONICS:

1. ALL BRANCH PIPING TO EQUIPMENT TO BE 3/4" UNLESS NOTED OTHERWISE.
2. NO PIPE SHALL BE SMALLER THAN 3/4" UNLESS SPECIFICALLY NOTED OTHERWISE.
3. ALL FLOOR PENETRATIONS TO BE FIRE STOPPED.
4. PROVIDE AIR VENTS WHEREVER REQUIRED TO REMOVE AIR FROM SYSTEM AND WHERE SHOWN ON DRAWINGS. SEE DETAIL 'C' / M411.
5. FOR VAV BOX, UNIT HEATER AND CABINET UNIT HEATER PIPING, SEE DETAIL 'G' / M411.
6. ROUTE BRANCH CHWS, CHWR, HS & HR PIPING TO EQUIPMENT WITH HYDRONIC COILS.
7. CLEAN EXISTING STRAINERS THREE (3) TIMES DURING CONSTRUCTION AND ONE (1) FINAL TIME AT END OF PROJECT. THOROUGHLY FLUSH EXISTING COILS THAT REMAIN. SEE SPECIFICATION SECTION 232500 - CHEMICAL TREATMENT FOR ADDITIONAL INFORMATION.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING, FLUSHING AND FILLING OF PIPING AND SYSTEMS AS REQUIRED.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR CHEMICAL TREATMENT OF SYSTEMS.
10. FOR FAN COIL AND VERTICAL UNIT VENTILATOR PIPING, SEE DETAIL 'G' / M411.
11. ALL CONDENSATE DRAINS SHALL TERMINATE WITH 90° ELBOW DIRECTLY OVER DRAIN. ENSURE DRAIN DOES NOT SPLASH ONTO SURROUNDING FLOOR AREA.
12. ALL VALVES MUST BE ACCESSIBLE. PROVIDE ACCESS PANEL FOR ACCESS TO VALVES LOCATED ABOVE HARD CEILINGS.
13. NO PULLED TEE'S ALLOWED. USE MANUFACTURED TEE'S ONLY.
14. CONTRACTOR SHALL PROVIDE ALL REQUIRED GAS VENT PIPING WHETHER SHOWN OR NOT.
15. ALL VENT LINES SHALL TERMINATE OUTSIDE OF BUILDING AT 24" ABOVE PARAPET WITH MUSHROOM CAP AND INSECT SCREEN.
16. GAS VENT PIPING SHALL BE BLACK STEEL.
17. COORDINATE COIL CONNECTIONS FOR ALL EQUIPMENT WITH MANUFACTURER PRIOR TO ORDERING.
18. REFERENCE M410 SERIES DRAWINGS FOR TYPICAL AND SPECIFIC INSTALLATION REQUIREMENTS FOR EQUIPMENT, ETC.
19. ALL ABOVE CEILING HVAC EQUIPMENT WITH A COOLING COIL MUST BE EQUIPPED WITH A SECONDARY DRAIN PAN AND PROPER INDEPENDENT DRAINAGE SYSTEM.
20. WHENEVER AN EXISTING PIPING SYSTEM IS BEING EXTENDED OR ADDED TO, PROVIDE ISOLATION VALVES IN THE MAINS AND 3/4" TAPS WITH BALL VALVES AND HOSE BIBB CONNECTIONS IN THE BOTTOMS OF THE NEW PORTIONS OF PIPING ON SUPPLY AND RETURN. THESE TAPS ARE TO BE USED FOR FLUSHING, CHEMICAL TREATMENT AND FUTURE SYSTEM DRAINING.
21. INSTALL PIPING ADJACENT TO AIR TERMINAL UNITS TO ALLOW SERVICE AND MAINTENANCE. ALL CONTROL VALVES, STRAINERS, SHUT-OFF AND BALANCE VALVES SHALL BE WITHIN ARM'S REACH FROM LADDER THAT IS SET UP TO SERVICE VAV CONTROLLER. INSTALL VALVES BEYOND ARM'S REACH IS NOT ACCEPTABLE UNLESS APPROVED BY ENGINEER.
22. SEE ALSO DRAWING PM001 FOR ADDITIONAL GENERAL NOTES.

GENERAL NOTES - CONTROLS:

1. ALL THERMOSTATS AND SENSORS TO BE MOUNTED AT 48" (A.F.F.) TO TOP OF DEVICE BACK BOX UNLESS SPECIFICALLY NOTED OTHERWISE.
2. THERMOSTATS IN PRIVATE OFFICES AND CLASSROOMS SHALL BE ADJUSTABLE TYPE. THERMOSTATS IN COMMON AREAS SHALL BE SENSORS WITH ADJUSTMENT IN REMOTE LOCATION AS REQUIRED BY OWNER.
3. ALL WIRING TO THERMOSTATS SHALL BE ROUTED CONCEALED. WIREMOLD IS NOT ACCEPTABLE.
4. TEMPERATURE CONTROL CONTRACTOR SHALL NOTIFY AND COORDINATE MECHANICAL CONTRACTOR OF ALL WELLS NEEDED IN PIPING.
5. SEE DRAWING M411 FOR MISCELLANEOUS CONTROL INSTALLATION DETAILS.
6. CONTROL CONTRACTOR SHALL LOCATE ALL CONTROLLERS, RELAYS, ETC. AT AN EASILY ACCESSIBLE LOCATION IF NOT INSTALLED WITHIN EQUIPMENT CABINET.
7. ALL THERMOSTATS, CO2 SENSORS, AND MOTION SENSORS TO HAVE STICK ON LABELS THAT INDICATE NAME OF EQUIPMENT THAT THE CONTROL LABEL TO BE LOCATED DIRECTLY BELOW DEVICE. VERIFY LABEL LOCATION WITH ENGINEER/OWNER PRIOR TO LABELING ALL DEVICES. ALL DEVICES TO BE LABELED WITH SAME I.D.

PLAN NOTES:

1. REFRIGERANT LINES FROM WALK-INS TO CONDENSING UNITS ON ROOF. PROVIDE LONG LINESET KIT IF REQUIRED BY WALK-IN COOLER MANUFACTURER. UNITS UTILIZE R-448. CONTRACTOR SHALL SUBMIT MANUFACTURER APPROVED REFRIGERANT LINESET DRAWING TO ENGINEER PRIOR TO INSTALLATION. DRAWING SHALL INCLUDE ALL ACCESSORIES INCLUDED ON RUN.
2. CONDENSATE DRAIN SHALL BE PIPED TO SANITARY WITH AIR GAP. REFER TO PLUMBING DETAILS.
3. PROVIDE PIPE ECLOSURE FOR REFRIGERANT PPIPING MOUNTED ON WALL. 24" TALL.
4. DPT FOR HEATING AND CHILLED WATER ABOVE CEILING.

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BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
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REVISIONS:

1	Addendum 3	11/10/25

ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	DJU	DJU

DRAWING TITLE:
FIRST FLOOR PLAN - HYDRONICS

CERTIFIED BY:
JOSEPH DANIEL ULRICH
REGISTERED
No. 12100624
STATE OF INDIANA
PROFESSIONAL ENGINEER
10/24/2025

DRAWING NUMBER
M211

PROJECT NUMBER
2025022

RENOVATION LEGEND:

WORK TO BE INSTALLED

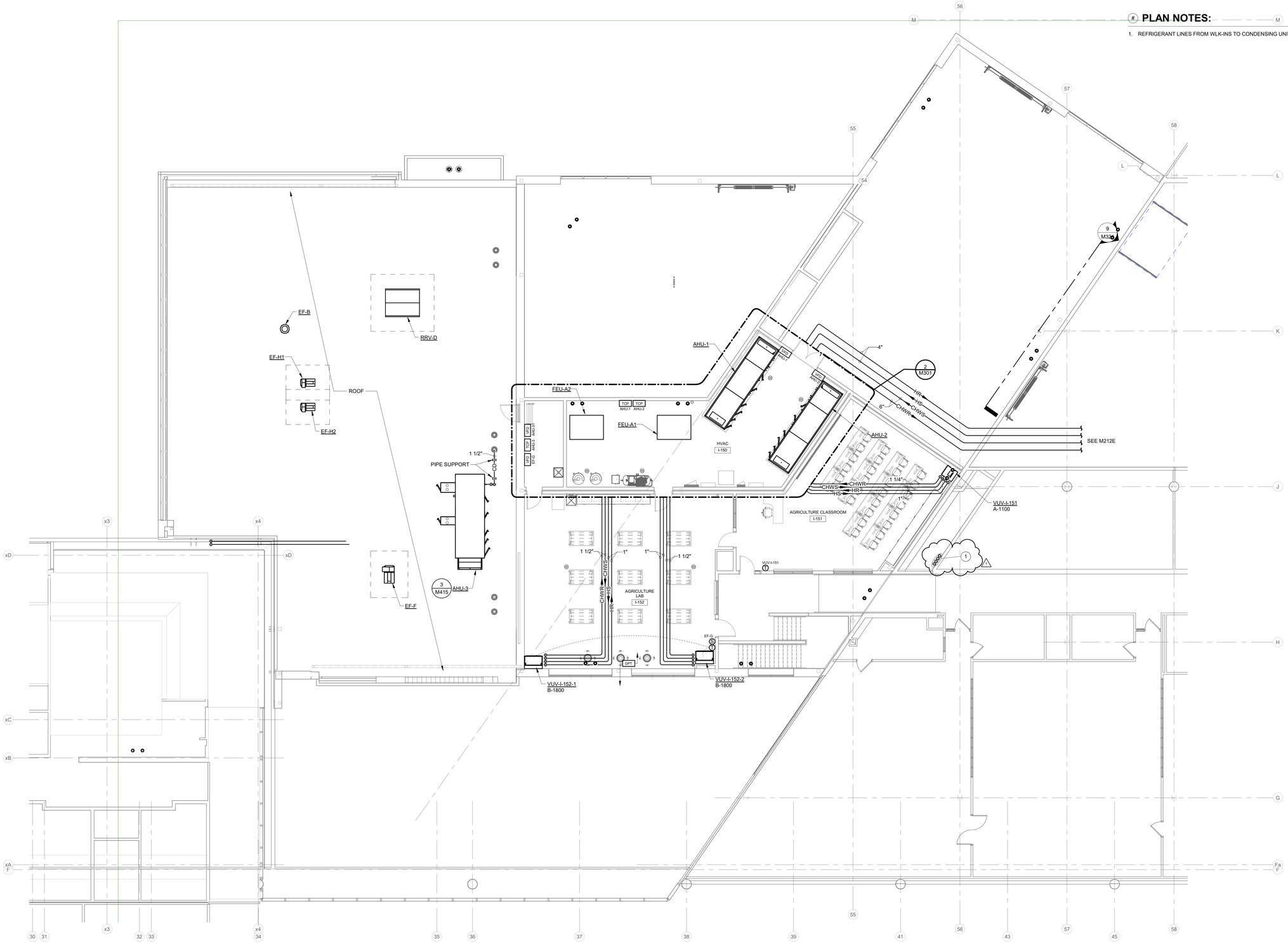
WORK TO REMAIN

GENERAL NOTES - HYDRONICS:

1. SEE M211 FOR GENERAL NOTES.

(#) PLAN NOTES:

1. REFRIGERANT LINES FROM WLK-INS TO CONDENSING UNITS ON ROOF.



SECOND FLOOR PLAN - HYDRONICS

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

NORTH

0 2 4 6 8 16 24 32

1 2 3 4

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D&A #25076

PROJECT:

BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL

C⁴ ADDITION

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REVISIONS:

1	Addendum 3	11/10/25

ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	DJU	DJU

DRAWING TITLE:

SECOND FLOOR PLAN - HYDRONICS

CERTIFIED BY:

DANIEL JOSEPH ULRICH
REGISTERED
No. 12100624
STATE OF
INDIANA
PROFESSIONAL ENGINEER

10/24/2025

DRAWING NUMBER

M212

PROJECT NUMBER

2025022

RENOVATION LEGEND:

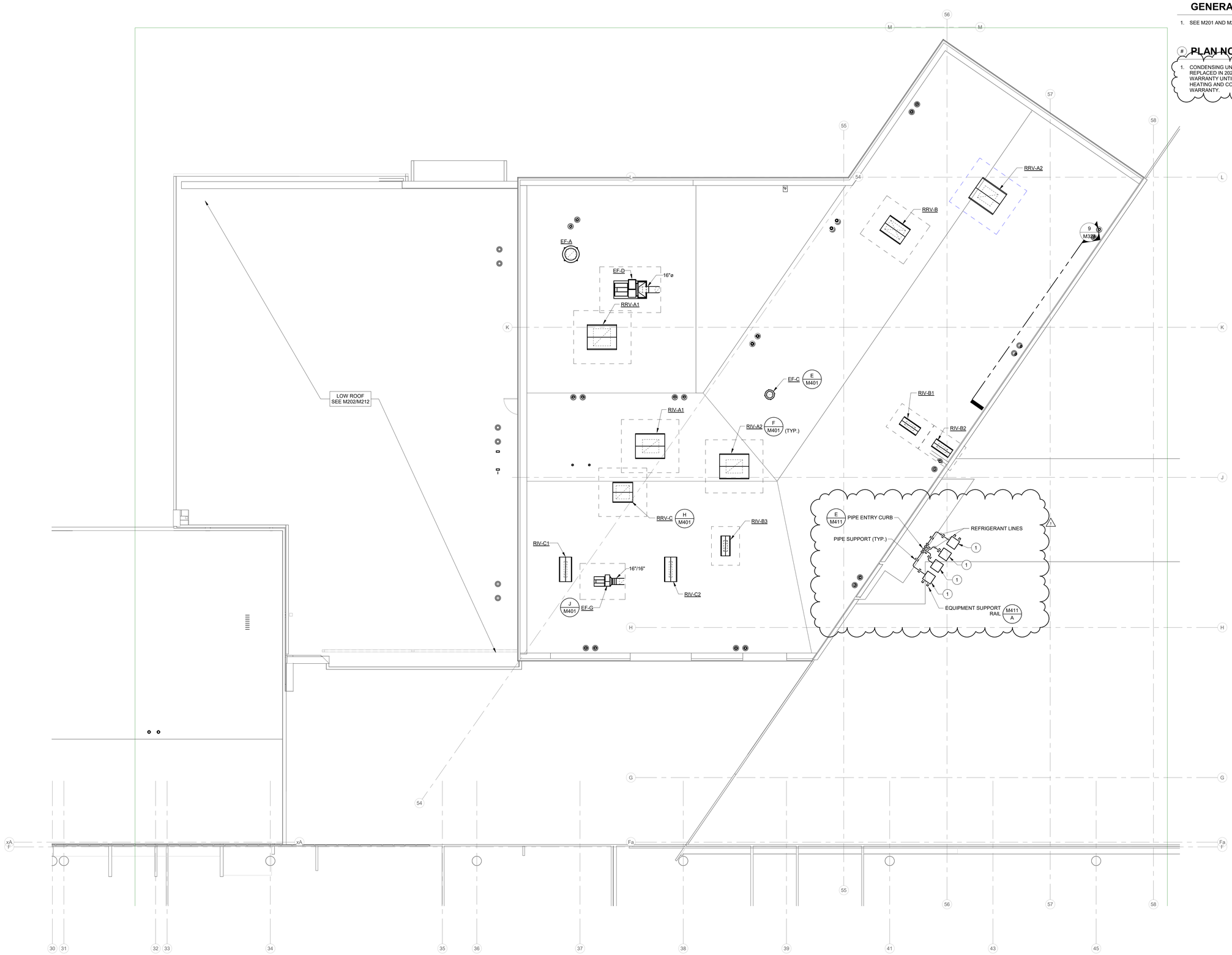
- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. SEE M201 AND M211 FOR GENERAL NOTES.

(#) PLAN NOTES:

1. CONDENSING UNITS FOR WALK-INS. UNITS WERE REPLACED IN 2023 AND COMPRESSORS ARE UNDER WARRANTY UNTIL 2027 WITH MARSHALL MECHANICAL HEATING AND COOLING. ALL WORK SHALL MAINTAIN WARRANTY.



ROOF PLAN - MECHANICAL

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

NORTH

0 2 4 6 8 16 24 32

1 2 3 4

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D&A #250176

R.E. Dimond and Associates, Inc.
Consulting Engineers

732 North Capitol Avenue
Indianapolis, IN 46204
Phone: (317) 634-4677
Fax: (317) 638-8725

PROJECT:

BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL

C⁴ ADDITION

230 S Marr Rd
Columbus, Indiana 47201

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, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

1	Addendum 3	11/10/25

ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	DJU	DJU

DRAWING TITLE:

ROOF PLAN - MECHANICAL

CERTIFIED BY:

DANIEL JOSEPH ULRICH
REGISTERED
No. 12100624
STATE OF
INDIANA
PROFESSIONAL ENGINEER

10/24/2025

DRAWING NUMBER

M220

PROJECT NUMBER

2025022

RENOVATION LEGEND:

WORK TO BE INSTALLED

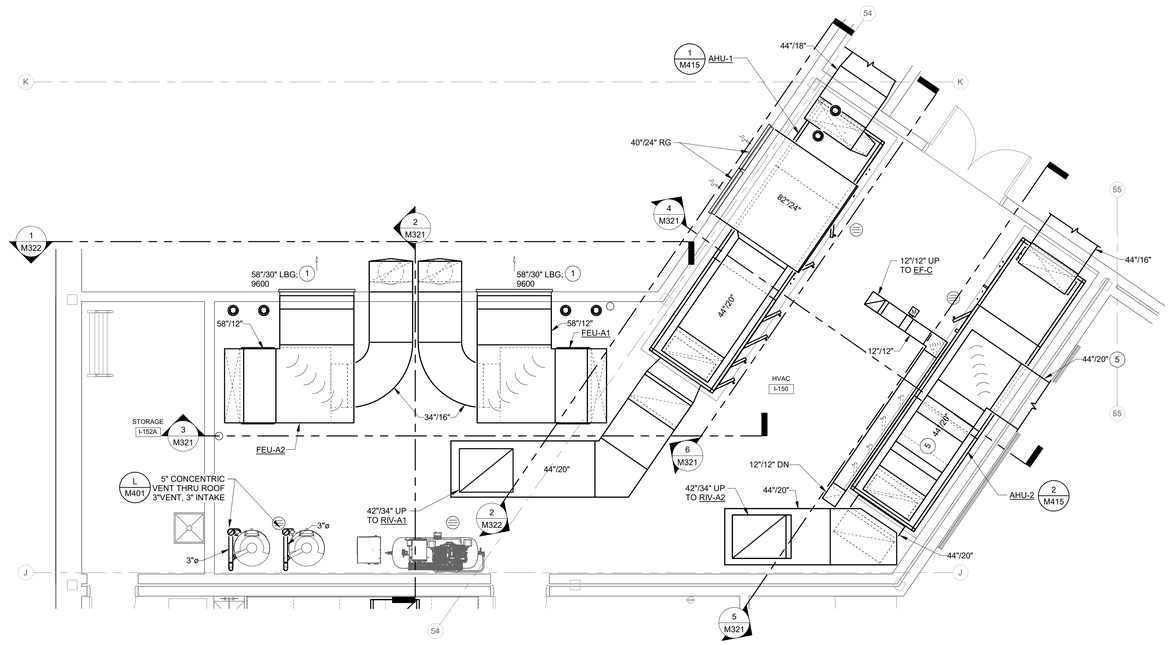
WORK TO REMAIN

GENERAL NOTES:

1. SEE M201.

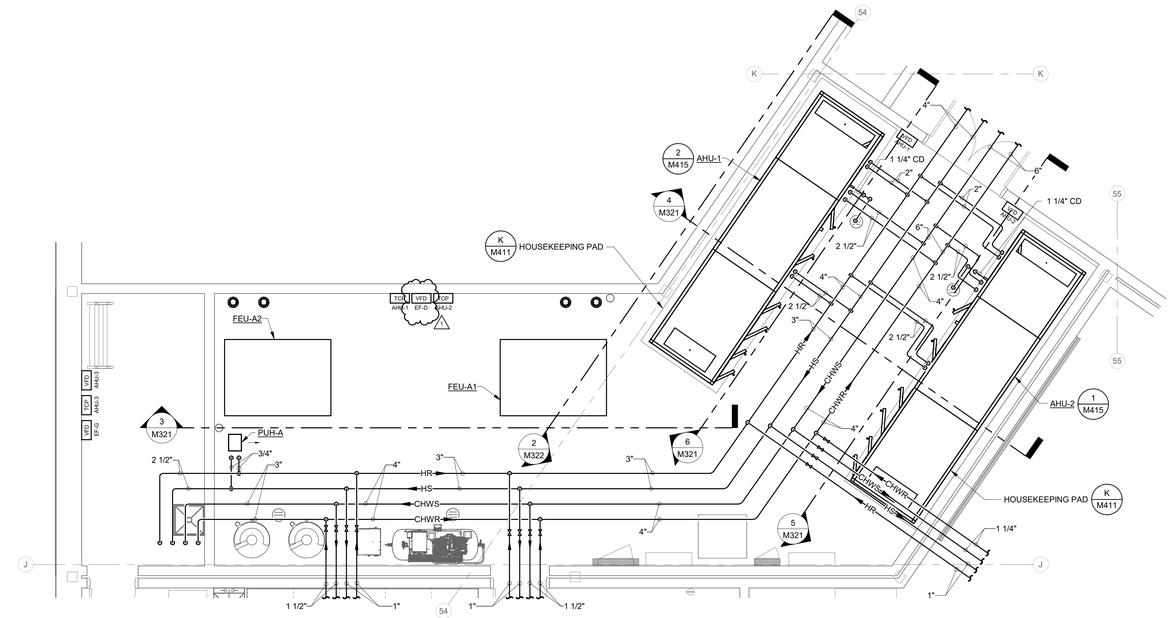
(#) PLAN NOTES:

1. LINEAR BAR GRILLE LIKE PRICE LBG 15A, 0° DEFLECTION, CUSTOM SIZE FRAME.



1 ENLARGED MECHANICAL ROOM PLAN

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



2 ENLARGED MECHANICAL ROOM PLAN

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

0 1 2 3 4 8 12 16

1 2 3 4

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ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	DJU	DJU

DRAWING TITLE:

ENLARGED PLANS - MECHANICAL

CERTIFIED BY:

DANIEL JOSEPH ULRICH
REGISTERED
No. 12100624
STATE OF INDIANA
PROFESSIONAL ENGINEER

10/24/2025

DRAWING NUMBER

M301

PROJECT NUMBER

2025022

FAN SCHEDULE

MARK NO	DRAWING NAME &/OR PURPOSE	SPECIFICATION			MANUFACTURER & MODEL NO	CFM	OPERATING DATA							MOTOR DATA			WEIGHT (LBS)	REMARKS
		SECTION	NAME	EQUIPMENT TYPE			TIP SPEED (FPM)	TOT STAT PRESS	RPM	BHP	SONES	DRIVE	WHEEL DIA	HP/KW	VOLTS	PHASE		
EF-A	WELDING LAB	23 34 23	HVAC POWER VENTILATORS	CENTRIFUGAL ROOF VENTILATOR	GREENHECK G-240-VG	4500	1,181	0.25	572	0.5	8.9	DIRECT	24.5	2	208	3	167	PROVIDE WITH BACKDRAFT DAMPER, 18" ROOF CURB, HINGED BASE, BIRDSCREEN, VARIABLE SPEED MOTOR & DISCONNECT SWITCH
EF-B	COSMOTOLOGY RESTROOMS	23 34 23	HVAC POWER VENTILATORS	CENTRIFUGAL ROOF VENTILATOR	GREENHECK G-090-VG	340	486	0.5	1,432	0.06	6.6	DIRECT	10.875	1/10	115	1	41	PROVIDE WITH BACKDRAFT DAMPER, 18" ROOF CURB, HINGED BASE, BIRDSCREEN, VARIABLE SPEED MOTOR & DISCONNECT SWITCH
EF-C	WELDING RESTROOMS	23 34 23	HVAC POWER VENTILATORS	CENTRIFUGAL ROOF VENTILATOR	GREENHECK G-099-VG	740	771	0.75	1,540	0.18	10.0	DIRECT	11.188	1/4	115	1	54	PROVIDE WITH BACKDRAFT DAMPER, 18" ROOF CURB, HINGED BASE, BIRDSCREEN, VARIABLE SPEED MOTOR & DISCONNECT SWITCH
EF-D	PLASMA TABLE HOOD	23 34 23	HVAC POWER VENTILATORS	UTILITY SET	GREENHECK FJ-22-B6	5,600	-	0.5	931	1.2	17.7	BELT	22.25	1-1/2	460	3	344	PROVIDE WITH SPARK PROTECTION. STACK DISCHARGE ANCHORED TO ROOF. 18" ROOF CURB, VFD RATED MOTOR & DISCONNECT SWITCH. BIRD SCREEN.
EF-E	CONSTRUCTION TRADES CIRCULATION FAN	23 34 23	HVAC POWER VENTILATORS	IN-LINE	GREENHECK SQ-18-M2	5,600	-	1.5	1,750	2.9	25.0	DIRECT	22.25	3	460	3	205	DISCONNECT, VFD RATED MOTOR.
EF-F	COSMETOLOGY LAB EXHAUST	23 34 23	HVAC POWER VENTILATORS	UTILITY SET	GREENHECK FJ-16-B6	2,400	-	0.5	1,105	0.46	14.6	BELT	16.5	1/2	208	3	218	PROVIDE WITH SPARK PROTECTION. STACK DISCHARGE ANCHORED TO ROOF. 18" ROOF CURB, VFD RATED MOTOR & DISCONNECT SWITCH BIRD SCREEN.
EF-G	AGRICULTURE LAB EXHAUST	23 34 23	HVAC POWER VENTILATORS	UTILITY SET	GREENHECK FJ-15-B7	1,500	-	0.5	992	0.23	9.6	BELT	14.6	1/4	208	3	210	STACK DISCHARGE ANCHORED TO ROOF. 18" ROOF CURB, VFD RATED MOTOR & DISCONNECT SWITCH BIRD SCREEN.
EF-H1 & EF-H2	COSMETOLOGY INSTRUCTIONAL LAB EXHAUST	23 34 23	HVAC POWER VENTILATORS	UTILITY SET	GREENHECK FJ-08-B7	600	-	0.5	1,271	0.11	15.9	BELT	11.2	1/4	208	3	116	PROVIDE WITH SPARK PROTECTION. STACK DISCHARGE ANCHORED TO ROOF. 18" ROOF CURB, VFD RATED MOTOR & DISCONNECT SWITCH BIRD SCREEN.

NOTES:

SF SUPPLY FAN
RF RETURN FAN
EF EXHAUST FAN

VARIABLE AIR VOLUME BOX SCHEDULE WITH HEAT (HOT WATER)

MARK NO.	DRAWING NAME &/OR PURPOSE	SPECIFICATION			MANUFACTURER & MODEL NO.	INLET DIA (IN.)	CLG CFM RANGE (*4)	HTG CFM	MAX APD (*2)	INLET SP (IN. W.G.)	HEATING DATA (*1)							REMARKS
		SECTION	NAME	EQUIP TYPE							MBH	EAT	LAT	EWT	LWT	GPM	WPD	
VAV-A	VAV BOX ZONE	23 36 00	AIR TERMINAL UNITS	VAV WITH HYDRONIC HEATING COIL	PRICE MODEL SDV5	6"ø	0-360	270	0.50"	1.00"	13.2	55 °F	100 °F	180 °F	140.00 °F	0.60	0.10	TWO-ROW COIL
VAV-B	VAV BOX ZONE	23 36 00	AIR TERMINAL UNITS	VAV WITH HYDRONIC HEATING COIL	PRICE MODEL SDV5	8"ø	361-640	480	0.50"	1.00"	21.9	55 °F	97 °F	180 °F	140.00 °F	1.10	0.30	TWO-ROW COIL
VAV-C	VAV BOX ZONE	23 36 00	AIR TERMINAL UNITS	VAV WITH HYDRONIC HEATING COIL	PRICE MODEL SDV5	10"ø	641-945	710	0.50"	1.00"	32.4	55 °F	97 °F	180 °F	140.00 °F	1.80	0.90	TWO-ROW COIL
VAV-D	VAV BOX ZONE	23 36 00	AIR TERMINAL UNITS	VAV WITH HYDRONIC HEATING COIL	PRICE MODEL SDV5	12"ø	946-1350	1015	0.50"	1.00"	50.7	55 °F	101 °F	180 °F	140.00 °F	2.50	1.80	TWO-ROW COIL
VAV-E	VAV BOX ZONE	23 36 00	AIR TERMINAL UNITS	VAV WITH HYDRONIC HEATING COIL	PRICE MODEL SDV5	14"ø	1351-2000	1500	0.50"	1.00"	73.2	55 °F	100 °F	180 °F	140.00 °F	3.60	1.90	TWO-ROW COIL
VAV-F	VAV BOX ZONE	23 36 00	AIR TERMINAL UNITS	VAV WITH HYDRONIC HEATING COIL	PRICE MODEL SDV5	16"ø	2001-2400	1800	0.50"	1.00"	89.9	55 °F	101 °F	180 °F	140.00 °F	4.50	2.90	TWO-ROW COIL
VAV-G	VAV BOX ZONE	23 36 00	AIR TERMINAL UNITS	VAV WITH HYDRONIC HEATING COIL	PRICE MODEL SDV5	24"x16"	2401-4000	3000	0.55"	1.00"	145.8	55 °F	100 °F	180 °F	140.00 °F	7.30	8.30	TWO-ROW COIL

ROOF RELIEF AND INTAKE VENT SCHEDULE

MARK NO	DRAWING NAME &/OR PURPOSE	SPECIFICATION			MANUFACTURER & MODEL NO	MAX CFM	ΔP AT MAX CFM	THROAT		HOOD SIZE	ROOF CURB HEIGHT	REMARKS
		SECTION	NAME	EQUIPMENT TYPE				LENGTH	WIDTH			
RIV-A1 & A2	AHU-1 & 2 INTAKE	23 37 23	HVAC GRAVITY VENTILATORS	ROOF INTAKE AND RELIEF VENTS	GREENHECK FGI-34x42	6,000	0.05"	34"	42"	64"x75"	14"	- - -
RIV-B	VERTICAL UNIT VENTILATOR INTAKE	23 37 23	HVAC GRAVITY VENTILATORS	ROOF INTAKE AND RELIEF VENTS	GREENHECK FGI-12x28	1,200	0.05"	10"	28"	24"x51"	14"	- - -
RIV-C	UNIT VENTILATION INTAKE	23 37 23	HVAC GRAVITY VENTILATORS	ROOF INTAKE AND RELIEF VENTS	GREENHECK FGI-14x40	1,800	0.05"	14"	40"	32"x63"	14"	- - -
RRV-A1 & A2	WELDING, CONSTRUCTION, TRADES	23 37 23	HVAC GRAVITY VENTILATORS	ROOF INTAKE AND RELIEF VENTS	GREENHECK FGR-44x44	6,000	0.10"	44"	44"	63"x69"	14"	PROVIDE WITH BACKDRAFT DAMPER, MOTORIZED DAMPER SHALL BE ACCESSIBLE FROM ROOF.
RRV-B	CONSTRUCTION TRADES EXHAUST	23 37 23	HVAC GRAVITY VENTILATORS	ROOF INTAKE AND RELIEF VENTS	GREENHECK FGR-28x46	5,600	0.10"	28"	46"	47"x63"	14"	MOTORIZED DAMPER SHALL BE ACCESSIBLE FROM ROOF. -
RRV-C	AGRICULTURE RELIEF	23 37 23	HVAC GRAVITY VENTILATORS	ROOF INTAKE AND RELIEF VENTS	GREENHECK FGR-34x34	3,600	0.05"	34"	34"	52"x51"	14"	- - -
RRV-D	COSMETOLOGY RELIEF	23 37 23	HVAC GRAVITY VENTILATORS	ROOF INTAKE AND RELIEF VENTS	GREENHECK FGR-48x60	9,000	0.05"	48"	60"	73"x87"	14"	- - -

NOTES:

RRV ROOF RELIEF VENT
RIV ROOF INTAKE VENT

DUST COLLECTOR SCHEDULE

MARK NO.	SPECIFICATION			MANUFACTURER & MODEL NO.	AIR VOLUME (CFM)	FILTER EFF.	EXHAUST FAN								WEIGHT (LBS)	REMARKS
	SECTION	NAME	EQUIPMENT TYPE				TSP (IN WG.)	ESP (IN WG.)	WHEEL RPM DIA. (IN)	QTY	HP	BHP	VFD	VOLTS	PH.	
DC-1 & DC-2	23 34 23	HVAC POWER VENTILATORS	DUST COLLECTOR	ONEIDA AIR SYSTEMS XSK000055	450	99.97%	-	5.0 (32.0 @ 300 cfm)	-	1	5	-	NO	208	1	102	35 GAL DRUM, HEPA FILTER WITH PULSE FILTER CLEANER, MAGNETIC STARTER WITH ON-OFF SWITCH, WALL MOUNT BRACKET, 5 LINER BAGS.
DC-3	23 34 23	HVAC POWER VENTILATORS	DUST COLLECTOR	ONEIDA AIR SYSTEMS XXPM010100H	450	99.97%	-	5.0 (32.0 @ 300 cfm)	-	1	1.5	-	NO	120	1	85	MOBILE DUST COLLECTOR, PROVIDE WITH 22 GAL DUST BIN, 5 LINER BAGS.

FUME EXTRACTION UNIT SCHEDULE

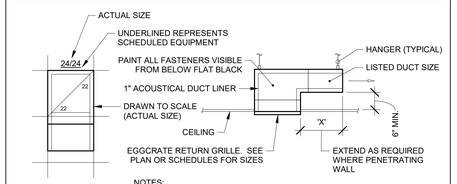
MARK NO.	SPECIFICATION			MANUFACTURER & MODEL NO.	AIR VOLUME (CFM)	PRE-FILTER	FILTER	EXHAUST FAN									WEIGHT (LBS)	REMARKS
	SECTION	NAME	EQUIPMENT TYPE					TSP (IN WG.)	ESP (IN WG.)	WHEEL RPM DIA. (IN)	QTY	HP	BHP	VFD	VOLTS	PH.		
FEU-A1 & A2	23 34 23	HVAC POWER VENTILATORS	FUME EXTRACTION UNIT	MILLER FILTAIR 12000	9,600	N	Y	6.00	-	-	1	30	-	YES	460	3	3,900	INDOOR MOUNTED UNIT. (2) 22 GAL. PARTICULATE BINS.

EXHAUST/RETURN GRILLE SCHEDULE

MARK NO.	NOMINAL GRILLE SIZE	MAX N.C.	MAX ΔP	CFM RANGE	REMARKS
0 - 170	8/8	20	0.1"	0 - 170	
175 - 240	10/10	20	0.1"	175 - 240	-
245 - 400	12/12	20	0.1"	245 - 400	-
405 - 520	14/14	20	0.1"	405 - 520	
525 - 640	16/16	20	0.1"	525 - 640	-
645 - 830	18/18	20	0.1"	645 - 830	
835 - 1050	20/20	20	0.1"	835 - 1050	-
1055 - 1400	24/24	20	0.1"	1055 - 1400	-

PLENUM RETURN GRILLE SCHEDULE

MARK NO.	GRILLE SIZE	CFM RANGE	DUCTED ELBOW SIZE	'X' DIMEN.	REMARKS
24/6	22/6	0 - 240	22/6	12"	
24/12	22/12	241 - 500	22/8	18"	
24/24	22/22	501 - 900	22/12	24"	
48/24	46/22	901 - 1500	46/12	36"	

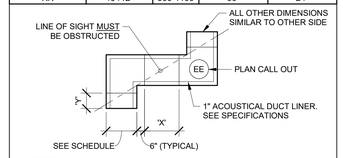


NOTES:

1. INSIDE OF DUCT TO BE BLACK.
2. DUCT SUPPORTED FROM STRUCTURE, NOT CEILING GRID.

TRANSFER DUCT SCHEDULE

PLAN CALL OUT	TRANSFER DUCT SIZE	CFM RANGE	'X' DIMENSION	'Y' DIMENSION
AA	10"/10"	0-200	12"	0"
BB	14"/12"	205-325	12"	0"
CC	16"/16"	330-500	18"	0"
DD	20"/20"	505-800	18"	6"
EE	24"/22"	805-1000	18"	12"
FF	26"/24"	1005-1250	24"	12"
GG	28"/26"	1255-1500	28"	12"
HH	30"/18"	805-1000	36"	14"
JJ	38"/14"	805-1000	48"	18"
KK	46"/12"	900-1100	60"	24"

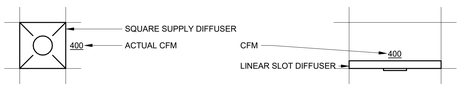


NOTES:

1. 'X' AND 'Y' DIMENSIONS SHOWN ARE MINIMUMS TO NULLIFY ANY "LINE OF SIGHT" THROUGH THE TRANSFER DUCT. ACTUAL FIELD DIMENSIONS MAY VARY BASED ON APPLICATION, WALL THICKNESS, ORIENTATION, ETC. FIELD VERIFY CONDITIONS PRIOR TO FABRICATION.
2. "TRANSFER DUCT SIZE" LISTED IN THE SCHEDULE ARE THE INTERNAL DIMENSIONS.

CEILING DIFFUSER SCHEDULE

MARK NO.	SPECIFICATION NAME	MANUFACTURER AND MODEL NO.	CFM RANGE	MAX. N.C.	NECK DIA.	FACE SIZE	CEILING MODULE SIZE
50 - 120	SQUARE CEILING DIFFUSER	PRICE SPD OR EQUAL	50 - 120	15	6"	24/24	24/24
125 - 245	SQUARE CEILING DIFFUSER	PRICE SPD OR EQUAL	125 - 245	19	8"	24/24	24/24
250 - 325	SQUARE CEILING DIFFUSER	PRICE SPD OR EQUAL	250 - 325	19	10"	24/24	24/24
330 - 475	SQUARE CEILING DIFFUSER	PRICE SPD OR EQUAL	330 - 475	19	12"	24/24	24/24
480 - 645	SQUARE CEILING DIFFUSER	PRICE SPD OR EQUAL	480 - 645	18	14"	24/24	24/24
650 - 735	SQUARE CEILING DIFFUSER	PRICE SPD OR EQUAL	650 - 735	18	15"	24/24	24/24
50 - 130	LINEAR SLOT DIFFUSER	PRICE SDB SERIES OR EQUAL	50 - 130	18	6" OVAL	(2) 1/2" SLOTS 48" LONG	T-BAR
135 - 160	LINEAR SLOT DIFFUSER	PRICE SDB SERIES OR EQUAL	135 - 160	21	8" OVAL	(2) 3/4" SLOTS 48" LONG	T-BAR
165 - 200	LINEAR SLOT DIFFUSER	PRICE SDB SERIES OR EQUAL	165 - 200	20	8" OVAL	(2) 1" SLOTS 48" LONG	T-BAR
205 - 220	LINEAR SLOT DIFFUSER	PRICE SDB SERIES OR EQUAL	205 - 220	23	10" OVAL	(3) 3/4" SLOTS 48 LONG	T-BAR
225 - 270	LINEAR SLOT DIFFUSER	PRICE SDB SERIES OR EQUAL	225 - 270	25	10" OVAL	(3) 1" SLOTS 48" LONG	T-BAR
275 - 360	LINEAR SLOT DIFFUSER	PRICE SDB SERIES OR EQUAL	275 - 360	25	10" OVAL	(4) 1" SLOTS 48" LONG	T-BAR
365 - 460	LINEAR SLOT DIFFUSER	PRICE SDB SERIES OR EQUAL	365 - 460	25	12" OVAL	(3) 1-1/2" SLOTS 48" LONG	T-BAR



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REVISIONS:

1	Addendum 3	11/10/25

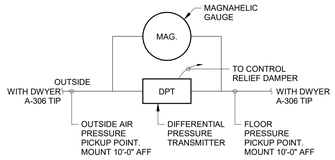
ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	DJU	DJU

DRAWING TITLE:
SCHEDULES - AIR DISTRIBUTION

CERTIFIED BY:
DANIEL JOSEPH ULRICH
REGISTERED
No. 12100624
STATE OF INDIANA
PROFESSIONAL ENGINEER
10/24/2025

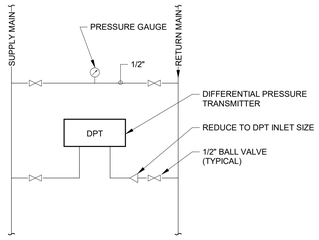
DRAWING NUMBER
M601

PROJECT NUMBER
2025022



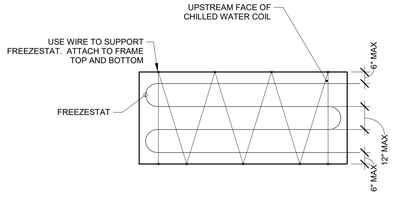
F BUILDING PRESSURIZATION CONTROL SCHEMATIC

SCALE: NONE



A TYPICAL DPT INSTALLATION

SCALE: NONE



B TYPICAL FREEZSTAT INSTALLATION

SCALE: NONE

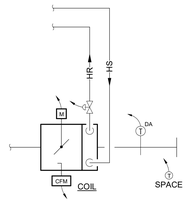
VAV WITH HYDRONIC HEAT (TYPICAL):

A. OCCUPIED

1. WHEN AMBIENT TEMPERATURE IS LESS THAN 50°F, A GLOBAL COMMAND (ADJ.) SHALL SET VAV BOXES TO A MINIMUM OF 60% OF THE MAXIMUM SCHEDULED CFM, AS SHOWN FOR EACH VAV BOXES ON FLOOR PLANS.
2. IF AMBIENT TEMPERATURE IS GREATER THAN 50°F, THEN A GLOBAL COMMAND SHALL SET ALL VAV BOX MINIMUM TO 35% OF THE MAXIMUM SCHEDULED CFM, AS SHOWN FOR EACH VAV BOX ON FLOOR PLANS.
   a. ON A CALL FOR HEAT, THE HEATING WATER VALVE SHALL START TO MODULATE OPEN TO SATISFY SPACE TEMPERATURE. WHEN VAV DISCHARGE TEMPERATURE REACHES 92°F, AND SPACE IS STILL NOT SATISFIED THEN THE VAV VALVE SHALL MODULATE FROM MINIMUM POSITION AND CONTROL TO OPEN TO MAXIMUM CFM AS REQUIRED TO SATISFY SPACE.
   b. IF VALVE IS FULLY OPENED, AND SPACE HEATING TEMPERATURE CANNOT BE MAINTAINED THEN THE HEATING VALVE SHALL CONTINUE TO OPEN TO DISCHARGE AT A TEMPERATURE MORE THAN 92°F.

B. UNOCCUPIED

1. VAV AIR VALVES SHALL BE SET TO MINIMUM 10% OF MAXIMUM CFM.
2. IF SPACE FALL BELOW SETPOINT, THEN PERIMETER HEAT SHALL MODULATE OPEN. WHEN PERIMETER HEATING VALVE IS 100% OPEN, THE VAV BOX HEATING VALVE SHALL START TO MODULATE OPEN. WHEN VAV DISCHARGE TEMPERATURE REACHED 92°F, THE VAV AIR VALVE SHALL START TO MODULATE OPEN.
3. ON A CALL FOR COOLING, HEATING WATER VALVE SHALL CLOSE AND AIR VALVE SHALL MODULATE OPEN TO SATISFY SETBACK TEMPERATURE.



C TYPICAL VAV WITH HW COIL SCHEMATIC

SCALE: NONE

PROPELLER UNIT HEATER:

A. WALL MOUNTED DDC SPACE THERMOSTAT SHALL CYCLE FAN AND MODULATE CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE SETPOINT.

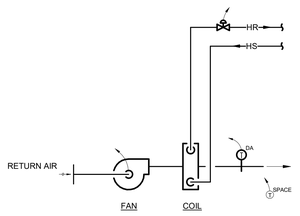
B. ABOVE 60°F. (ADJ.) AMBIENT TEMPERATURE, ALL CUH'S SHALL BE LOCKED OUT.

C. BELOW 32°F (ADJ) AMBIENT TEMPERATURE, CONTROL VALVE SHALL GO TO FULL OPEN POSITION.

CABINET UNIT HEATER:

A. RETURN AIR DDC SPACE THERMOSTAT SHALL CYCLE FAN AND MODULATE CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE SETPOINT.

B. ABOVE 60°F. (ADJ.) AMBIENT TEMPERATURE, ALL CUH'S SHALL BE LOCKED OUT.



D TYPICAL CABINET UNIT HEATER

SCALE: NONE

EXHAUST FAN:

A. GENERAL EXHAUST FANS SHALL BE INDEXED ON THROUGH THE B.A.S. SYSTEM. EXHAUST FANS SHALL BE INDEXED ON WHEN AHU IS INDEXED TO OCCUPIED MODE UNLESS SPECIFICALLY NOTED OTHERWISE IN SEQUENCE OF OPERATION.

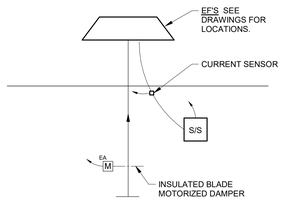
B. EXHAUST FANS (EF-A, D, E, F, G, H-1, AND H-2) SHALL OPERATE ON A WALL SWITCH WITH 0-2 HOUR TIMER.

   a. EXHAUST FAN EF-E SHALL ALSO HAVE WALL SWITCH TO CONTROL DAMPERS TO ALTERNATE BETWEEN EXHAUST AND RE-CIRCULATION.
   b. EXHUAST DAMPER SHALL CLOSE WHEN EXHAUST FAN IS DE-ENERGIZED.

C. A CURRENT MONITOR SHALL ALARM B.A.S. IF FAN FAILS TO OPERATE WHEN INDEXED ON.

   a. STATUS OF EACH FAN SHALL BE READABLE ON B.A.S.

D. MOTORIZED DAMPER SHALL CLOSE WHEN FAN IS INDEXED OFF.



E TYPICAL EXHAUST FAN SCHEMATIC

SCALE: NONE

GENERAL NOTES - CONTROLS:

1. ALL CONTROL VALVES WILL BE ELECTRONIC/ELECTRIC ACTUATED.
2. ALL THERMOSTATS WILL BE REMOTE/READABLE. ADJUSTABLE FOR NIGHT SETBACK CAPABILITIES.
3. LISTED CONTROL POINTS ARE MINIMUM REQUIREMENTS. T.C.C. SHALL PROVIDE ADDITIONAL POINTS IF REQUIRED FOR SPECIFIED SEQUENCE OF OPERATION.
4. ALL THERMOSTATS AND SENSORS TO BE MOUNTED AT ELEVATION AS NOTED ON ARCHITECTURAL DRAWINGS.
5. NO WIREMOLD ALLOWED. DROP WIRE DOWN THRU CONCRETE BLOCK CORES. VERTICAL CONDUIT FOR WIRE TO THERMOSTATS NOT REQUIRED WHEN INSTALLING IN EXISTING BLOCK WALLS. CONDUITS ARE REQUIRED IN ALL OTHER WALLS.
6. ELECTRICAL CONTRACTOR TO INSTALL CONDUIT TO ABOVE CEILING AND BACK BOX FOR ALL THERMOSTATS AND SENSORS INSTALLED IN NEW WALLS. TEMPERATURE CONTROL CONTRACTOR TO PROVIDE COMPLETE INSTALLATION FOR ALL THERMOSTATS AND SENSORS INSTALLED IN EXISTING WALLS.
7. THERMOSTATS SHOWN ON EQUIPMENT SHALL BE INSTALLED WITH SENSOR TO SENSE RETURN AIR TEMPERATURE.
8. ALL TERMINAL DEVICES REQUIRING CONTROL TO MAINTAIN ROOM TEMPERATURE SHALL HAVE A CONTROL VALVE IN PIPE AND WALL MOUNTED THERMOSTAT WHETHER SHOWN OR NOT.
9. COORDINATE THERMOSTAT AND SENSOR LOCATIONS WITH ALL CASEWORK, GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR PRIOR TO WALL CONSTRUCTION.
10. THERMOSTATS IN PRIVATE OFFICES AND CLASSROOMS SHALL BE ADJUSTABLE TYPE. THERMOSTATS IN COMMON AREAS SHALL BE FLAT PLATE SENSORS WITH ADJUSTMENT THROUGH BUILDING AUTOMATION SYSTEM (BAS) OR IN REMOTE LOCATION AS REQUIRED BY OWNER.
11. TEMPERATURE CONTROL CONTRACTOR SHALL NOTIFY AND COORDINATE MECHANICAL CONTRACTOR OF ALL WELLS NEEDED IN PIPING.
12. CONTROL CONTRACTOR SHALL LOCATE ALL CONTROLLERS, RELAYS, ETC. AT AN EASILY ACCESSIBLE LOCATION IF NOT INSTALLED WITHIN EQUIPMENT CABINET.
13. ALL THERMOSTATS TO HAVE STICK-ON LABELS THAT INDICATE NAME OF EQUIPMENT THAT THEY CONTROL. LABELS TO BE LOCATED DIRECTLY BELOW DEVICE. VERIFY LABEL LOCATION WITH THE ENGINEER/OWNER PRIOR TO LABELING ALL DEVICES. ALL DEVICES TO BE LABELED WITH SAME I.D.
14. ALL RELIEF DAMPERS AND EXHAUST FAN ISOLATION DAMPERS SHALL BE INSULATED, TIGHT-CLOSING TEMPERATURE CONTROL DAMPERS.
15. CONTROL VALVES ON AHU'S SHALL READ BACK ACTUAL POSITION OF VALVE.
16. ALL TERMINAL UNIT CONTROL VALVES WILL FAIL IN LAST POSITION.
17. ALL OUTSIDE AIR, RETURN AIR AND RELIEF DAMPERS TO READ BACK ACTUAL ORIENTATION OF DAMPERS.
18. ALL OUTSIDE AIR DAMPERS SHALL FAIL CLOSED, EXCEPT FOR LIFE SAFETY DAMPERS.

GENERAL NOTES - CONTROL SEQUENCE:

1. THESE SEQUENCES DEFINE THE MANNER AND METHOD BY WHICH CONTROLS FUNCTION. REQUIREMENTS FOR EACH TYPE OF CONTROL SYSTEM OPERATION ARE SPECIFIED. EQUIPMENT, DEVICES, AND SYSTEM COMPONENTS REQUIRED FOR CONTROL SYSTEMS ARE IN SPECIFICATION SECTIONS. FURNISH ALL CONTROL DEVICES AND COMPONENTS, WHETHER SPECIFIED OR NOT, TO ACCOMPLISH THE DESCRIBED SEQUENCES.
2. THE SOFTWARE WILL ENABLE USER TO AUTOMATICALLY PROGRAM LEAD-LAG OPERATION OF ALL COMMON TYPES OF EQUIPMENT. COMMON TYPES OF EQUIPMENT INCLUDE CHILLERS, COOLING TOWERS, PUMPS, BOILERS, ETC.
3. ALL PUMPS AND FANS SHALL HAVE CURRENT SENSORS WHICH WILL BE USED FOR PROOF OF OPERATION AND TO DISPLAY AMP DRAW. SHOULD ANY EQUIPMENT FAIL, THEN THE B.A.S. SYSTEM SHALL BE ALARMED AND THE STAND-BY EQUIPMENT WILL BE ENERGIZED, IF AVAILABLE. WHERE EQUIPMENT IS CONTROLLED WITH VFD'S THEN B.A.S. SHALL READ AMP DRAW THROUGH VFD. CURRENT SENSOR SHALL HAVE ALARMS SET TO SENSE A "NONLOADED" CONDITION AND ALERT B.M.S.
4. EVERY SETPOINT INDICATED IN THESE SPECIFICATIONS SHALL BE USER ADJUSTABLE.
5. ALL EQUIPMENT INDEXED BY OUTSIDE AIR TEMPERATURE SHALL BE INDEXED THROUGH ONE SINGLE TEMPERATURE SENSOR.
6. EVERY ACTION INDICATED IN THIS CONTROL SEQUENCE SHALL BE ABLE TO BE INDEXED THROUGH THE B.A.S. FROM COMPUTER AT THE OWNER'S HEAD-END COMPUTER.
7. IN THE EVENT OF A POWER FAILURE, EVERYTHING SHALL AUTOMATICALLY RESET/RESTART. ALL EQUIPMENT SHALL BE STAGED ON.
8. THERE SHALL BE NO MEMORY LOSS OR REPROGRAMMING REQUIRED UPON LOSS OF POWER.
9. GENERAL REFERENCES ARE MADE TO GLOBAL COMMANDS. GLOBAL COMMANDS SHALL BE SET UP TO COMMUNICATE TO ALL COMMON EQUIPMENT, AS SPECIFIED, WITHOUT HAVING TO ADDRESS EACH AND EVERY PIECE OF EQUIPMENT INDIVIDUALLY.
10. ALL FAN SYSTEMS WITH MOTORIZED DAMPERS SHALL BE INTERLOCKED THROUGH END SWITCHES WHERE REQUIRED TO PREVENT DUCT COLLAPSE. FAN SHALL NOT START UNTIL DAMPERS ARE FULLY OPEN UNLESS SPECIFICALLY NOTED OTHERWISE.
11. B.A.S. SYSTEM SHALL UTILIZE OPTIMUM START/STOP FOR BUILDING WARM-UP AND COOL-DOWN PRIOR TO OCCUPANCY.
12. ALL CRITICAL ALARMS SHALL SEND A SIGNAL TO LOCATION AS DIRECTED BY OWNER.
13. THIS DDC CONTROL SYSTEM WILL BE DESIGNED SO THAT THE OWNER WILL BE ABLE TO ACCESS AND CONTROL THIS SYSTEM FROM ANYWHERE ON THE WAN USING A STANDARD INTERNET BROWSER SUCH AS INTERNET EXPLORER.
14. IF ADDITIONAL POINTS ARE REQUIRED TO ACHIEVE CONTROL SEQUENCE THEN THEY SHALL BE INCLUDED.
15. ALL CONTROL VALVES ON AIR HANDLING UNITS SHALL READ BACK ACTUAL POSITION OF VALVE.
16. PROVIDE COLOR-SPACE-GRAPHICS FOR B.A.S. GRAPHICS SHALL INCLUDE A FORMAT THAT CAN FIT ON ONE SCREEN WHICH ALLOWS FOR EASY OCCUPIED AND UNOCCUPIED SCHEDULING AS WELL AS CHANGING MAJOR SYSTEM PARAMETERS.
17. ALL CRITICAL ALARMS SHALL SEND A TEXT TO A PERSON TO BE IDENTIFIED. SITUATION CAN BE ADDRESSED IMMEDIATELY UPON OCCURRENCE.

MASTER AMBIENT SENSORS:

1. TEMPERATURE AND HUMIDITY
   A. AMBIENT SENSOR (DRY BULB) SHALL CONTROL ALL EQUIPMENT WHICH USES AMBIENT TEMPERATURE IN ITS CONTROL SEQUENCE TO INDEX TO ECONOMIZER MODE.
   B. UNIT INDEXED TO ECONOMIZER MODE AT THE FOLLOWING CONDITION:
      a. AMBIENT DRY BULB TEMPERATURE LESS THAN 55°F.
   C. UNIT SHALL BE INDEXED TO MECHANICAL COOLING AT THE FOLLOWING AMBIENT CONDITION:
      a. AMBIENT DRY BULB TEMPERATURE GREATER THAN OR EQUAL TO 55°F.
2. CO_2 SENSOR
   A. A MASTER AMBIENT CO_2 SENSOR AND RETURN AIR CO_2 SENSOR SHALL CONTROL OUTSIDE AIR SO CO_2 INSIDE DOES NOT EXCEED OUTSIDE AIR CO_2 BY 400 PPM.
3. INCLUDE ALL MASTER AMBIENT SENSOR READINGS ON EACH PAGE OF GRAPHICS.

TEMPERATURE SET POINTS:

1. PROVIDE THE FOLLOWING TEMPERATURE SET POINTS:
   A. COOLING OCCUPIED: 72°F
   B. HEATING OCCUPIED: 71°F
   C. UNOCCUPIED: 60°F - 80°F.
      a. NO ENERGY USE IF SPACE IS BETWEEN THESE SETPOINTS DURING UNOCCUPIED MODE. AS TEMPERATURE APPROACHES UNOCCUPIED HIGH OR LOW TEMPERATURE THEN SYSTEM(S) SHALL MODULATE TO MAINTAIN TEMPERATURES WITHIN UNOCCUPIED OUTER LIMITS.

OCCUPIED / UNOCCUPIED

1. GLOBAL COMMANDS
   A. SCREEN WITH TOGGLE SWITCH WILL ALLOW USER TO ASSIGN DIFFERENT ZONES AS INDEXABLE AS "STAND-ALONE" OR "GLOBAL COMMANDS."
   B. WHEN ANY SPACE IS INDEXED TO UNOCCUPIED MODE, THE RESPECTIVE VAV BOX SHALL CLOSE 100% AN REMAIN CLOSED UNTIL HEATING OR COOLING IS REQUIRED.
   C. OCCUPIED 1 6:00 A.M. TO 3:00 P.M.
      a. SPACE AND RESPECTIVE AHU REMAINS IN OCCUPIED MODE.
      b. AHU-3 SHALL HAVE OCCUPIED 1 TIMES FROM 6:00 A.M. TO 5:00 P.M.
   D. OCCUPIED 2 3:00 P.M. TO 11:00 P.M.
      a. PUSH BUTTONS WILL INDEX TERMINAL UNITS TO OCCUPIED MODE AND VENTILATION TO OPERATE IN STANDBY MODE. WHEN BUTTON IS PUSHED SPACE MAINTAINS OCCUPIED TEMPERATURE FOR 120 MINUTES (ADJ.).
   E. UNOCCUPIED 11:00 P.M. TO 6:00 A.M.
      a. PUSH BUTTONS ARE DISABLED.
      b. SPECIFIC OCCUPIED/UNOCCUPIED MODES, IF REQUIRED, WILL BE AS NOTED FOR SPECIFIC AIR HANDLING UNITS.

CRITICAL ALARMS:

A. EACH CRITICAL ALARM SHALL BE IDENTIFIED BY A SIMPLE TEXT MESSAGE. OWNER CAN GET ONLINE VIA WEB BROWSER AND IDENTIFY WHAT CRITICAL ALARM(S) EXISTING.

B. THE FOLLOWING POINTS SHALL BE PROGRAMMED AS CRITICAL ALARMS:

1. LOW HEATING WATER SUPPLY TEMPERATURE - WHEN O.A. IS LESS THAN 35°F AND HS TEMPERATURE DROPS BELOW 100°F.
2. HIGH CHILLED WATER SUPPLY TEMPERATURE - WHEN CHILLED WATER SYSTEM IS ENERGIZED AND CHILLED WATER IS GREATER THAN 50°F.
3. CHILLED WATER EVAPORATOR DISCHARGE GREATER THAN 85°F, EVEN WITH CHILLER OFF.
4. LOW BUILDING TEMPERATURE - ANY SPACE TEMPERATURE LESS THAN 50°F.
5. HIGH BUILDING TEMPERATURE - ANY SPACE TEMPERATURE GREATER THAN 85°F.
6. AHU STATUS - AHU IS ENERGIZED BUT FAILS TO OPERATE I.E. FREEZE STAT, NO AIR FLOW, ETC. FREEZE STAT TO BE ELECTRONIC RESET FROM B.A.S.
7. HIGH BUILDING HUMIDITY - ANY SPACE HUMIDITY SENSOR ABOVE 70% RH.

GENERAL NOTES - SCHEMATICS:

1. SENSORS SHALL BE MOUNTED ON THE SIDE OF DUCTWORK WITH TIP OF SENSING PROBE CENTERED IN THE DUCT. (SAME DISTANCE FROM TOP TO BOTTOM AND SIDE TO SIDE).
2. ALL TEMPERATURE SENSORS IN THE AIR HANDLING UNITS SHALL BE INSTALLED ON THE CENTER LINE OF THE UNIT. (SAME DISTANCE FROM TOP OF BOTTOM AND SIDE TO SIDE).
3. MASTER OUTDOOR AIR TEMPERATURE SENSOR SHALL BE LOCATED ON THE NORTH FACE OF THE BUILDING.

TYPICAL SEQUENCE - ALL AHU'S:

1. FACE AND BYPASS PREHEAT COIL CONTROL
   A. AT AMBIENT TEMPERATURE 38°F AND ABOVE, BOTH FACE AND BYPASS DAMPERS SHALL BE 100% OPEN. PREHEAT COIL CONTROL VALVE SHALL MODULATE TO MAINTAIN PREHEAT DISCHARGE TEMPERATURE AS SENSED DOWNSTREAM OF SUPPLY FAN.
   B. AT AMBIENT TEMPERATURE 37°F AND COLDER THE PREHEAT COIL CONTROL VALVE SHALL BE 100% OPEN. THE FACE DAMPERS SHALL MODULATE OPEN TO MAINTAIN PREHEAT COIL TEMPERATURE SETPOINT. WHEN FACE DAMPER IS 90% OPEN AND PREHEAT COIL TEMPERATURE SETPOINT IS NOT SATISFIED THEN BYPASS DAMPER SHALL START TO MODULATE CLOSED.
   C. IN ROOFTOP AIR HANDLING UNITS WITH PREHEAT COILS, VALVE SHALL MODULATE TO MAINTAIN 100°F AMBIENT WITHIN UNIT CASING WHEN UNIT IS DE-ENERGIZED AS MEASURED BY MIXED AIR TEMPERATURE SENSOR.
2. AHU CHILLED WATER VALVE CONTROL
   A. THE CHILLED WATER (CHW) COOLING CONTROL VALVE SHALL BE CLOSED AT AMBIENT TEMPERATURES BELOW 53°F. ABOVE 53°F THE CHW COOLING CONTROL VALVE SHALL MODULATE TO SATISFY CHILLED WATER RETURN TEMPERATURE SENSOR TO MAINTAIN A CHWR LOW LIMIT OF 63°F. FOR DEHUMIDIFICATION REQUIREMENTS THE SPACE RELATIVE HUMIDITY SENSOR SHALL OVERRIDE THE CHILLED WATER VALVE CONTROL AND RESET THE CHILLED WATER RETURN TEMPERATURE LIMIT DOWNWARD WHENEVER THE HUMIDITY SETPOINT IS EXCEEDED. RESET CURVE FOR THE CHILLED WATER RETURN TEMPERATURE LIMIT.

RH	CWR LOW LIMIT TEMPERATURE
0-50%	63°F.
60-100%	58°F.

   B. WHEN SYSTEM IS FIRST ENERGIZED AND AMBIENT TEMPERATURE IS > 54°F, THEN CHILLED WATER VALVE SHALL OPEN FOR TEN (10) MINUTES BEFORE REVERTING CONTROL OF VALVE TO THE RETURN WATER TEMPERATURE.
3. AHU FAN CONTROL
   A. AHU FANS SHALL BE OFF DURING UNOCCUPIED MODE UNLESS ANY SPACE TEMPERATURE SERVED BY RESPECTIVE AHU IS OUTSIDE UNOCCUPIED MODE TEMPERATURE SETPOINTS.
   B. DISCHARGE PRESSURE CONTROL ON AHU'S WITH VAV BOXES
      a. AHU SHALL MONITOR ALL VAV BOXES SERVED BY RESPECTIVE AHU. THE DISCHARGE STATIC PRESSURE SHALL BE DECREASED IN 0.1" INCREMENTS IN 10 (TEN) MINUTE INTERVALS UNTIL ANY ONE VAV AIR VALVE IS 100% OPEN. WHEN VAV AIR VALVES CANNOT BE SATISFIED THE DISCHARGE PRESSURE SHALL BE RAISED IN THE SAME SEQUENCE IN WHICH IT WAS REDUCED UNTIL ALL AIR VALVES ARE SATISFIED AT WHICH TIME THE PRESSURE SHALL REMAIN CONSTANT.
   C. VFD TO ALARM BAS IF FAN FAILS TO OPERATE.
4. AHU SAFETIES - TYPICAL ALL AHU'S
   A. PROVIDE TWO (2) ELECTRIC LOW LIMIT THERMOSTAT'S WITH A 20'-0" ELEMENT SERPENTINED ACROSS THE FACE OF THE LEAVING AIR SIDE OF THE HEATING COIL WHICH WILL STOP THE SUPPLY FAN, CLOSE THE OUTSIDE AIR DAMPER (AND RELIEF AIR DAMPERS IF APPLICABLE) AND POSITION CONTROL VALVE FOR FULL COIL WATER FLOW. AHU TO RESTART AUTOMATICALLY TWO (2) TIMES AND ALERT B.A.S. SYSTEM.
   B. UNIT SMOKE DETECTORS - DETECTORS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AND ARRANGED TO STOP SUPPLY FAN AND CLOSE OUTSIDE AIR DAMPERS UPON ALARM ACTIVATION. TEMPERATURE CONTROL CONTRACTOR SHALL SUPERVISE DETECTOR INSTALLATION LOCATIONS AND WIRE INTO FAN CIRCUITS.
   C. SUPPLY FAN - THE SUPPLY AIR FAN SHALL STOP AND SYSTEM SHALL GO INTO ALARM IF THE SUPPLY FAN DISCHARGE STATIC PRESSURE EXCEEDS 3" (ADJ) (AUTO RESET) THE VFD CURRENT MONITOR SHALL REPORT FAN STATUS AND ALARM B.A.S. WHEN FAN FAILS TO OPERATE.
   D. MIXED AIR TEMPERATURE - MIXED AIR TEMPERATURE SENSOR TO OVERRIDE OUTSIDE AIR DAMPER SO THAT MIXED AIR TEMPERATURE DOES NOT DROP BELOW 40°F.

SYMBOL LEGEND

- PETE'S PLUG
- PUMP
- TC VALVE - ALL MODULATING
- T — TEMPERATURE SENSOR
- FM — FLOW METER
- T — THERMOMETER
- SHUT-OFF VALVE
- BALANCE VALVE WITH MEMORY STOP
- DPT — DIFFERENTIAL PRESSURE TRANSMITTER
- PRESSURE GAUGE
- FS — FLOW SWITCH
- PRESSURE REDUCING VALVE
- RELIEF VALVE
- HIGH CAPACITY VENT PIPED TO FLOOR DRAIN
- ANGLED GLOBE VALVE
- VFD — VARIABLE FREQUENCY DRIVE
- TO BUILDING AUTOMATION SYSTEM
- AFMS — AIR FLOW MEASURING STATION
- FS — FREEZESTAT
- M — MOTORIZED DAMPER
- CO_2 — CO2 SENSOR
- H — HUMIDITY SENSOR / HUMIDISTAT

BCSC TOGETHER WE LEARN

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PROJECT:
BARTHOLOMEW COUNTY SCHOOL CORPORATION
COLUMBUS EAST HIGH SCHOOL
C⁴ ADDITION
230 S Marr Rd
Columbus, Indiana 47201

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, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

1	Addendum 3	11/10/25

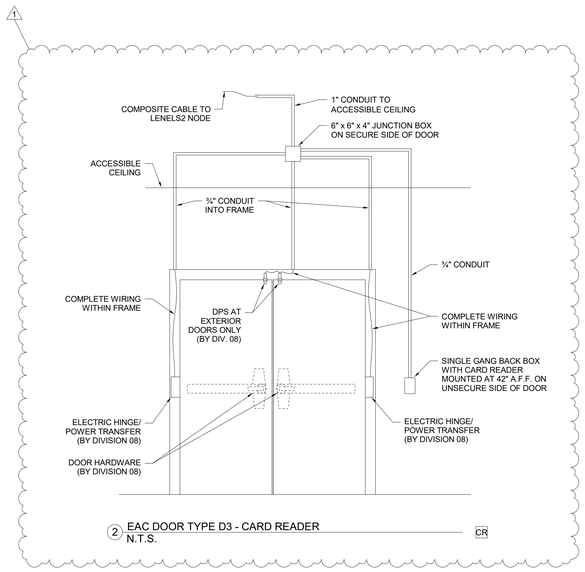
ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	DJU	DJU

DRAWING TITLE:
GENERAL - CONTROLS

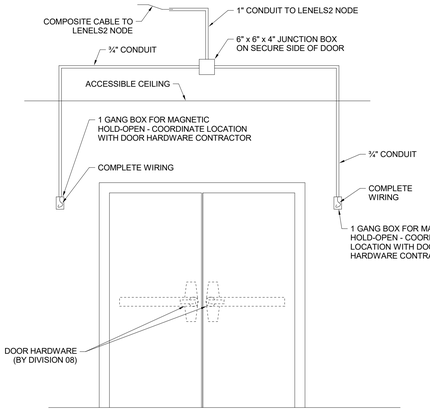
CERTIFIED BY:
DANIEL JOSEPH ULICH REGISTERED No. 12100624 STATE OF INDIANA PROFESSIONAL ENGINEER
10/24/2025

DRAWING NUMBER
M701

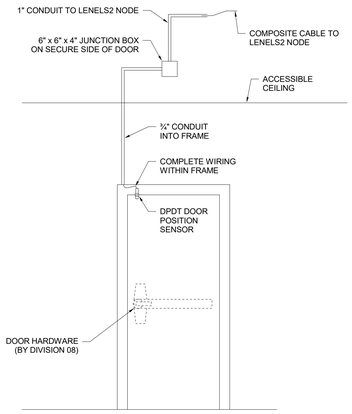
PROJECT NUMBER
2025022



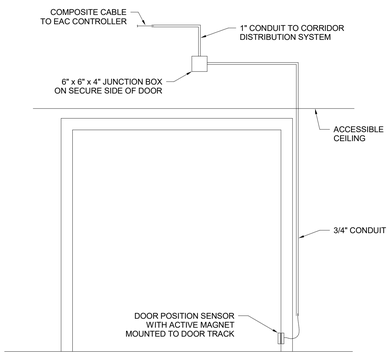
2 EAC DOOR TYPE D3 - CARD READER
N.T.S. CR



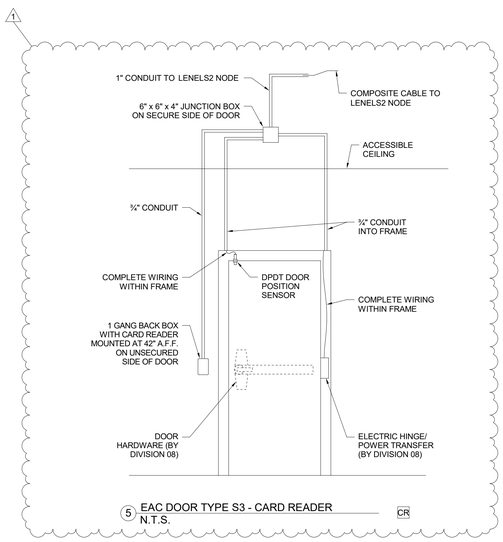
1 EAC DOOR TYPE D1MH - MAGNETIC HOLD OPEN
N.T.S. MH



3 EAC DOOR TYPE S1 - MONITORING ONLY
N.T.S. D



1 4 EAC DOOR TYPE S1RU - MONITORED OVERHEAD DOOR
N.T.S. D



5 EAC DOOR TYPE S3 - CARD READER
N.T.S. CR

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REVISIONS:
1 Addendum 3 11/10/2025

ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	JKK	JKK

DRAWING TITLE:
SECURITY DETAILS

CERTIFIED BY:
REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Jared Klingler
BICSI ID # 407182
EXPIRES 12-31-27
RCDD

DRAWING NUMBER
T403

PROJECT NUMBER
2025022

IDF I-142 TELECOM SCHEDULE

ROOM NUMBER	LABEL	TELECOM ROOM	DATA PORTS	COMMENTS
I-050	I-142A-D-01/02	I-142A	2	AV INPUT LOCATION
I-050	I-142A-D-03	I-142A	1	WALL PHONE LOCATION
I-050	I-142A-D-04	I-142A	1	PROJECTOR LOCATION
I-051	I-142A-D-08	I-142A	1	WALL PHONE LOCATION
I-051	I-142A-D-09/10	I-142A	2	AV INPUT LOCATION
I-054	142-D-11/12	I-142A	2	AV INPUT LOCATION
I-054	I-142A-D-13	I-142A	1	WALL PHONE LOCATION
I-054	I-142A-D-14	I-142A	1	PROJECTOR LOCATION
I-059	I-142A-D-15/16	I-142A	2	MONITOR LOCATION
I-061	I-142A-D-17	I-142A	1	WALL PHONE LOCATION
I-061	I-142A-D-18/19	I-142A	2	AV INPUT LOCATION
I-061	I-142A-D-20	I-142A	1	PROJECTOR LOCATION
I-064	I-142A-25	I-142A	1	PROJECTOR LOCATION
I-064	I-142A-D-21/22	I-142A	2	AV INPUT LOCATION
I-064	I-142A-D-23	I-142A	1	WALL PHONE LOCATION
I-070	I-142A-30/31/32/33	I-142A	4	DATA LOCATION
I-070	I-142A-D-24	I-142A	1	DATA LOCATION
I-070	I-142A-D-25	I-142A	1	WALL PHONE LOCATION
I-070	I-142A-D-26/27/28/29	I-142A	4	DATA LOCATION
I-071	I-142A-D-34/35	I-142A	2	DATA LOCATION
I-071	I-142A-D-36/37	I-142A	2	DATA LOCATION
I-151	I-142A-D-38	I-142A	1	WALL PHONE LOCATION
I-151	I-142A-D-39/40	I-142A	2	AV INPUT LOCATION
I-151	I-142A-D-41	I-142A	1	PROJECTOR LOCATION
I-152	I-142A-D-42	I-142A	1	WALL PHONE LOCATION
Grand total			40	

IDF I-142 WIRELESS ACCESS POINT SCHEDULE

ROOM NUMBER	LABEL	TELECOM ROOM	DATA PORTS	COMMENTS
I-050	I-142A-E-01/02	I-142A	2	WIRELESS ACCESS POINT LOCATION
I-051	I-142A-E-03/04	I-142A	2	WIRELESS ACCESS POINT LOCATION
I-054	I-142A-E-05/06	I-142A	2	WIRELESS ACCESS POINT LOCATION
I-055	I-142A-E-07/08	I-142A	2	WIRELESS ACCESS POINT LOCATION
I-061	I-142A-E-09/10	I-142A	2	WIRELESS ACCESS POINT LOCATION
I-064	I-142A-E-11/12	I-142A	2	WIRELESS ACCESS POINT LOCATION
I-070	I-142A-E-13/14	I-142A	2	WIRELESS ACCESS POINT LOCATION
I-151	I-142A-E-15/16	I-142A	2	WIRELESS ACCESS POINT LOCATION
I-152	I-142A-E-17/18	I-142A	2	WIRELESS ACCESS POINT LOCATION
Grand total			18	

IDF I-142 FACILITIES DATA SCHEDULE

ROOM NUMBER	LABEL	TELECOM ROOM	DATA PORTS	COMMENTS
COURTYARD	I-142A-F-02	I-142A	1	SECURITY CAMERA LOCATION
EXT	I-142A-F-03	I-142A	1	SECURITY CAMERA LOCATION
EXT	I-142A-F-04	I-142A	1	SECURITY CAMERA LOCATION
EXT	I-142A-F-05	I-142A	1	SECURITY CAMERA LOCATION
EXT	I-142A-F-06	I-142A	1	SECURITY CAMERA LOCATION
EXT	I-142A-F-07	I-142A	1	SECURITY CAMERA LOCATION
I-058	I-142A-F-08	I-142A	1	SECURITY CAMERA LOCATION
I-058	I-142A-F-09	I-142A	1	ABOVE CEILING DATA - FACILITIES
I-059	I-142A-F-10	I-142A	1	SECURITY CAMERA LOCATION
I-071	I-142A-F-11	I-142A	1	BUILDING FACILITY DATA LOCATION
I-099A	I-142A-F-12	I-142A	1	SECURITY CAMERA LOCATION
I-099A	I-142A-F-13	I-142A	1	ABOVE CEILING DATA - FACILITIES
I-099B	I-142A-F-14	I-142A	1	SECURITY CAMERA LOCATION
I-099B	I-142A-F-15	I-142A	1	SECURITY CAMERA LOCATION
I-099C	I-142A-F-16	I-142A	1	SECURITY CAMERA LOCATION
I-150	I-142A-F-17	I-142A	1	BUILDING FACILITY DATA LOCATION
I-150	I-142A-F-18	I-142A	1	BUILDING FACILITY DATA LOCATION
I-150	I-142A-F-19	I-142A	1	BUILDING FACILITY DATA LOCATION
I-199	I-142A-F-01	I-142A	1	SECURITY CAMERA LOCATION
Grand total			19	

ACCESS CONTROL SCHEDULE

DOOR NUMBER	PANEL LOCATION	LABEL	DOOR TYPE / DESCRIPTION
I-051.4	I-051	I-051.4-DPS	EAC DOOR TYPE S1RU
I-055.2	I-051	I-055.2-DPS	EAC DOOR TYPE S1RU
I-051.3	I-058	I-051.3-CR	EAC DOOR TYPE S3
I-055.1	I-058	I-055.1-CR	EAC DOOR TYPE S3
I-058.1	I-058	I-058.1-CR	EAC DOOR TYPE S3
I-058.2	I-058	I-058.2-CR	EAC DOOR TYPE S3
I-070	I-058	I-070-DPS	EAC DOOR TYPE S1
EX-001	I-099A	EX-001-DPS	EAC DOOR TYPE S1
I-099A.1	I-099A	I-099A.1-CR	EAC DOOR TYPE D3
I-099A.2	I-099A	I-099A.2-DPS	EAC DOOR TYPE S1
I-099B	I-099A	I-099B-MH	EAC DOOR TYPE D1MH
I-099B.2	I-099A	I-099B.2-DPS	EAC DOOR TYPE S1
I-152A.2	I-099A	I-152A.2-DPS	EAC DOOR TYPE S1

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C⁴ ADDITION
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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, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:
1 Addendum 3 11/10/2025

ISSUE DATE	DRAWN BY	CHECKED BY
10/24/2025	JKK	JKK

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TECHNOLOGY/ SECURITY SCHEDULES

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