1850 W 15th Street, Indianapolis, IN 46202 317.681.1000 (Main) | 317.684.9694 (Fax)

ADDENDUM NO. 1

6/12/2025

PROJECT: BCSC - New Elementary School #12 - Maple Grove

Tipton Lakes Blvd. Columbus, IN 47201

OWNER: Bartholomew Consolidated School Corporation (BCSC)

1200 Central Avenue Columbus, IN 47201

ARCHITECT: CSO Architects Höweler + Yoon Architecture

8831 Keystone Crossing 150 Lincoln Street Indianapolis, IN 46240 Boston, MA 02111

CONSTRUCTION

MANAGER: Pepper Construction

1850 W 15th Street Indianapolis, IN 46202

317.681.1000

This Addendum is incorporated with the Contract Documents for this Project and contains clarifications and revisions to the Contract Documents.

The information contained herein modifies the original Bidding Documents. Requirements of the original Bidding Documents remain in effect except as modified by this Addendum.

Bidders must acknowledge receipt of this Addendum on the Bid form. Failure to acknowledge receipt of this Addendum may result in disqualification.

CLARIFICATIONS

- 1) Bid Package 01: Earthwork & Site Utilities has moved to Bid Day #2 6/26/25
- 2) Bid Package 02A: Building & Site Concrete has moved to Bid Day #2 6/26/25
- 3) Please refer to the Project Bid Manual for the most up to date bid packages & bid due dates.
- 4) **No** performance/payment bond is required.
- 5) We're now asking for all questions/RFIs to be directed to Andrew VanderVinne avandervinne@pepperconstruction.com no later than Monday, June 16, 2025, 2:00 PM ET

Q & A

1) Updated **RFI log** dated 6/12/25 has been included.

SUBSTITUTIONS

1) Reference the RFI log for any substitution request status.

1850 W 15th Street, Indianapolis, IN 46202 317.681.1000 (Main) | 317.684.9694 (Fax) 6/12/2025

ADDENDUM NO. 1

DOCUMENT MODIFICATIONS

A. Project Bid Manual

- 1) The following bid packages have been updated:
 - a) BP-04: Structural & Misc. Steel
 - b) BP-06: Roofing & Flashing
 - c) BP-13: Landscape and Site Furnishings
 - d) BP-14: Playground Surfacing & Equipment
 - e) BP-19: Flooring
 - f) BP-20: Painting, Wall Coverings and Sealed Concrete
 - g) BP-22: Asphalt Paving

B. Project Spec Manual

1) Reference specification updates noted in the Addendum 1 narrative by CSO.

C. Plans

1) Reference drawing updates noted in the Addendum 1 narrative by CSO.

D. Schedule & Site Logistics:

- 1) An updated schedule dated 6/12/25 has been included.
- 2) An updated site logistics plan dated 6/12/25 has been included.

ADDENDUM

ය CSO

ARCHITECTURE · INTERIOR DESIGN



ADDENDUM NO: 1

BID PACKAGE NO: All

PROJECT: BCSC Maple Grove Elementary School

PROJECT NO: 2024022 DATE: 06/10/2025 BY: Lauren Maloney

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: ADD1-1 - ADD1-12

Attachments: Specifications: 00 11 13A, 00 21 15A, 00 43 74, 00 62 75, 00 72 16, 01 00 01, 01 23 00,

05 52 13, 05 73 00, 32 33 00

Revised Sheets: C000, C400, C401, C403, C800, C900, C902, C903, A101, A102, A201D, A211C, A211D, A304, A305, A421, A422, A603, A604, A605, A650, A653, A800, A801C, A801D K102, K200, K601, M201A, M201B, M201C, M201D, M202A, M202B, M202C, M202D, M211A, M211B, M211C, M211D, M212A, M212B, M212D, M301, M302, M303, M304, M305, M901, M902, M903, M904, M905, E100, E201A, E201B, E201D, E202A, E601,

T101, T101D, T102, T101D, T302

PART 1 - BIDDING AND CONTRACT REQUIREMENTS

- 1.01 TABLE OF CONENTS
 - A. REVISE 12 93 00 SITE FURNISHINGS TO BE 32 33 00 SITE FURNISHINGS.
- 1.02 00 11 13A ADVERTISEMENT FOR BIDS
 - A. See attached, revised specification.
- 1.03 00 21 15A IN-PERSON BID DAY
 - A. See attached, revised specification.
- 1.04 00 43 74 BID FORM 96
 - A. See attached, revised specification.
- 1.05 <u>00 62 75 INFLATION REDUCTION ACT TAX BREAKOUT FORM</u>
 - A. See attached, revised specification.
- 1.06 00 72 16 TAX EXEMPTION CERTIFICATE, EXHIBIT F
 - A. See attached, revised specification.



- 1.07 01 00 01 GENERAL REQUIREMENTS
 - A. See attached, revised specification.
- 1.08 <u>01 23 00 ALTERNATES</u>
 - A. See attached, revised specification.
- 1.09 <u>01 45 00 MOCKUPS</u>
 - A. Revise as follows:

1.05.B.8. Exterior Wall Mockup: Full Scale standalone exterior wall mockup consisting of **5'-9" wide by 5'-0" tall** section of building including window, precast concrete, flashing, etc. as indicative of complete exterior wall system. Refer to drawing sheet A300 for elements of exterior wall section to be included.

PART 2 - SPECIFICATIONS

- 2.01 05 52 13 PIPE AND TUBE RAILINGS
 - A. See attached, revised specification.
- 2.02 <u>05 73 00 DECORATIVE METAL RAILINGS</u>
 - A. See attached, revised specification.
- 2.03 12 32 16 MANUFACTURED PLASTIC-LAMINATE-FACED CASEWORK
 - A. Add approved manufacturer.
 - 2.01.A.5. Euronique.
- 2.04 <u>32 18 18 PLAYGROUND PROTECTIVE SURFACING SYNTHETHIC TURF</u>
 - A. Revise as follows:
 - 2.1 B. 1B Product: 10' Mound
- 2.05 <u>32 33 00 SITE FURNISHINGS</u>
 - A. Add sway benches as indicated in attached, revised specification.

PART 3 - DRAWINGS

- 3.01 C000 TITLE SHEET
 - A. Modified Drawing Index to identify the revised sheets & dates under this Addendum.
- 3.02 C400 OVERALL STORMWATER PLAN
 - A. Modified Pipe 220 from 12" to 15".

Addendum ADD 1- 2 of 12

	ARCI	HITECTU
3.03	C401 – STORMWATER STRUCTURE PROFILE	
	A. Modified Pipe 220 from 12" to 15".	
3.04	C403 – STORMWATER PLAN	
	A. Modified Pipe 220 from 12" to 15".	
3.05	C800 – SITE DETAILS	
	A. Removed asphalt pavement section details per bidder question.	
3.06	C900 – STORMWATER POLLUTION PREVENTION PLAN- OVERALL	
	A. Added permanent/temporary seeding on the south trail area per city com	ment.
3.07	C902 – STORMWATER POLLUTION PREVENTION PLAN- WEST	
	A. Added permanent/temporary seeding on the south trail area per city com	ment.
3.08	C903 – STORMWATER POLLUTION PREVENTION PLAN- NOTES	
	A. Modified Item B12 per city comment.	
3.09	L102 – SITE MATERIALS PLAN	
	A. Relocation of Flagpole	
3.010	L110 – PLAYGROUND EQUIPMENT	
	A. Removal of extra F27 Tag.	
	B. F27 Keynote legend update – Sway Bench to reference specification 32	33 00
	C. F28 Keynote legend update – Skyways Shade	
	D. F30 Removal of Goalrilla reference	
3.011	L202 – SITE LAYOUT PLAN	
	A. Relocation of Flagpole	
	B. Jointing update around Flagpole	
3.012	L402 – SITE PLANTING PLAN	
	A. Update plantings around flagpole	
3.013	L410 – PLANTING DETAILS AND SCHEDULE	
	A. Plant quantity	

Addendum ADD 1-3 of 12

3.014 A200 SERIES PLAN NOTES



A. Revise PLAN NOTE #6 to read "3'-6"H GLASS RAILING SYSTEM"

3.015 A-SERIES KEYNOTES

- A. Add keynote 05 73 00-G to read 2" SQUARE BRUSHED STAINLESS STEEL CAP RAIL.
- B. Revise keynote 05 52 13-A to read 1¼" I.D. ANODIZED ALUMINUM HANDRAIL.

3.016 A101 – OVERALL FIRST FLOOR PLAN

A. Add overall exterior dimensions as shown on the attached sheet.

3.017 A102 – OVERALL SECOND FLOOR PLAN

Add overall exterior dimensions as shown on the attached sheet.

3.018 A201A - FIRST FLOOR PLAN - UNIT A

A. Rename gridline C1.3A to A1.3 to match structural. Apply to all other drawings that reference this gridline.

3.019 A201D - FIRST FLOOR PLAN - UNIT D

- A. Revise DP.5 and DP.4 gridline locations to match structural. Apply to all other drawings that reference these gridlines.
- B. Add gridline D10.8 to match structural. Apply to all other drawings that reference this gridline.
- C. Add additional exterior dimensions as shown on the attached sheet.

3.020 A211C - FIRST FLOOR REFLECTED CEILING PLAN - UNIT C

A. Revise soffit panel joints as shown on the attached sheet.

3.021 A211D - FIRST FLOOR REFLECTED CEILING PLAN - UNIT D

A. Add bulkhead in Serving Line D173 as shown on the attached sheet.

3.022 <u>A212A – SECOND FLOOR REFLECTED CEILING PLAN – UNIT A AND A212B – SECOND FLOOR REFLECTED CEILING PLAN – UNIT B</u>

- Realign ceiling grid in SGR A206A to match ceiling grid layout in SGR A106A.
- B. Realign ceiling grid in SGR B235A to match ceiling grid layout in SGR B135A.

3.023 A304 - ENLARGED BUILDING ELEVATIONS - UNIT C

- A. Add elevation marker as shown on 5/A304 attached with this addendum.
- B. Revise dimension as shown on 5/A304.

3.024 A305 - ENLARGED BUILDING ELEVATIONS - UNIT D

Addendum ADD 1- 4 of 12



A. Add 12/A305 – EXTERIOR WALL MOCKUP

3.025 A421 - ENLARGED SECTION DETAILS

A. Add "07 42 43-C" keynote to ENLARGED SECTION DETAIL 12/A421.

3.026 A422 - ENLARGED SECTION DETAILS

- A. Add "07 27 26-A" keynote to ENLARGED SECTION DETAILS 1/A422 and 3/A422.
- B. Add "07 42 43-C" keynote to ENLARGED SECTION DETAIL 2/A422.
- C. Revise name of detail 6/A422 from ENLARGED STAIR DETAIL to ENLARGED SECTION DETAIL.

3.027 A450 - PRECAST PANEL SCHEDULE & TYPES

A. Revise verbiage on ENLARGED PLAN DETAILS 1/A450 and 4/A450 from "2" X 2" RECESSED NOTCH FOR PANEL A1', A4', B1', AND B3'" to "3" X 3/4" RECESSED NOTCH FOR PANEL A1', A4', B1', AND B3'."

3.028 A460 – VERTICAL CIRCULATIONS PLANS SECTIONS AND DETAILS

- A. Revise cap rail keynote in DETAILS 4/A460, 5/A460, and 7/A460 from "05 73 00-E" to "05 73 00-G".
- B. Revise cap rail keynote in detail 6/A460 from "05 73 00-E" to "05 73 00-G". Delete keynote 05 73 00-D typical in two locations on this detail.
- C. Revise handrail keynote in detail 3/A460 from "05 52 13-A" to "05 73 00-B."

3.029 A501 - DOOR SCHEDULE

- A. Revise door finish of door 216A from PT to ST.
- B. Revise door finish of doors 103A, 108A, 132A, 137A, S203, S204, S205, and S206 from ST to PT.

3.030 A603 - INTERIOR ELEVATIONS - DISCOVERY CENTER

- A. Show extents of linear diffuser in discovery center on interior elevation 3/A603.
- B. Revise extent of wall tile on interior elevation 1/A603.
- C. Revise extent of accent paint on interior elevation 1/A603.
- D. Revise wall tile tag on interior elevation 3/A603.

3.031 A604 – INTERIOR ELEVATIONS – COMMON SPACES

- A. Add wall tile as indicated/
- B. Revise wall finish tag on interior elevation 8/A604.

Addendum ADD 1- 5 of 12



3.032 A605 – INTERIOR ELEVATIONS – NEIGHBORHOOD

A. Add finish tags as indicated.

3.033 A650 - CASEWORK ELEVATIONS

- Add additional finished ends and filler panels as shown on the attached sheet.
- B. 15/A650 STAFF WORKROOM C143 N.E.
 - 1. T/O counter height from <u>2'-6"</u> to **2'-10"**.
- C. 18/A650 CLINIC C146 N.W.
 - 1. Revise T/O counter height from 2'-6" to 2'-10".
 - Tag "AP2".
- D. 19/A650 CLINIC EXAM C146B N.W.
 - 1. Revise T/O counter height from 2'-6" to 2'-10".
- E. 20/A650 KITCHENETTE C156 S.W.
 - 1. Revise T/O counter height from 2'-6" to 2'-10".
- F. 26/A650 SMALL FLEX A217 SOUTH
 - 1. Add T/O casework callout as shown on the attached sheet.

3.034 A653 – MILLWORK DETAILS

- A. Revise wall finish tags on millwork sections 1/A653, 3/A653, 4/A653, 9/653/
- B. Revise wall finish and upholsters finish tags on 6/A653 and 7/A653/

3.035 A701 – ENLARGED RESTROOM PLANS

A. Revise chase walls on 9/A701 ENLARGED RESTROOM PLAN, Staff Restrooms D172C and D180, from \(\psi \) to \(\psi \)#.

3.036 A800 - FINISH LEGEND & DETAILS

- A. Revise flooring transitions as indicated.
- B. Revise paint information for **EP1**.
- C. Add paint **EP8** as indicated.
- D. Add wall protection **WP1** in its entirety.
- E. Revise upholstery **UP1** and **UP2** as indicated.

Addendum ADD 1- 6 of 12

- F. Revise Finish Plan Note **F5** installation height.
- G. Add General Finish Note 13 as indicated.
- 3.037 A801C FIRST FLOOR FINISH PLAN UNIT C
 - A. Revise wall tag in Cool Down Room C158 as indicated.
- 3.038 <u>A801D FIRST FLOOR FINISH PLAN UNIT C</u>
 - A. Revise Finish Plan note in Corridor C101.
- 3.039 K102 FOODSERVICE LAYOUT
 - A. Revise equipment as shown on the attached sheet.
- 3.040 K200 FOODSERVICE EQUIPMENT SCHEDULE
 - A. Revise equipment as shown on the attached sheet.
- 3.041 K601 FOODSERVICE DETAILS, ELEVATIONS & SECTIONS
 - A. Revise equipment as shown on the attached sheet.
- 3.042 M201A FIRST FLOOR PLAN UNIT A AIR DISTRIBUTION
 - A. REISSUE THIS DRAWING IN ITS ENTIRETY.
 - B. REVISED TRANSFER AIR OVER CLASSROOMS.
- 3.043 M201B FIRST FLOOR PLAN UNIT B AIR DISTRIBUTION
 - A. REISSUE THIS DRAWING IN ITS ENTIRETY.
 - B. REVISED TRANSFER AIR OVER CLASSROOMS.
- 3.044 M201C FIRST FLOOR PLAN UNIT C AIR DISTRIBUTION
 - A. REISSUE THIS DRAWING IN ITS ENTIRETY.
 - B. REVISED DUCT ROUTING.
- 3.045 M201D FIRST FLOOR PLAN UNIT D AIR DISTRIBUTION
 - A. REISSUE THIS DRAWING IN ITS ENTIRETY.
 - B. ADDED TRANSFER DUCTS AND GRILLES.
- 3.046 M202A SECOND FLOOR PLAN UNIT A AIR DISTRIBUTION
 - A. REISSUE THIS DRAWING IN ITS ENTIRETY.
 - B. REVISED TRANSFER AIR OVER CLASSROOMS.

Addendum ADD 1- 7 of 12

3.047 M202B - SECOND FLOOR PLAN - UNIT B - AIR DISTRIBUTION

- A. REISSUE THIS DRAWING IN ITS ENTIRETY.
- B. REVISED TRANSFER AIR OVER CLASSROOMS.

3.048 M202C - SECOND FLOOR PLAN - UNIT C - AIR DISTRIBUTION

- A. REISSUE THIS DRAWING IN ITS ENTIRETY.
- B. REVISED DUCT ROUTING.

3.049 M202D - SECOND FLOOR PLAN - UNIT D - AIR DISTRIBUTION

- A. REISSUE THIS DRAWING IN ITS ENTIRETY.
- B. ADDED TRANSFER DUCTS AND GRILLES.

3.050 M211A - FIRST FLOOR PLAN - UNIT A - HYDRONICS

- A. REISSUE THIS DRAWING IN ITS ENTIRETY.
- B. ADDED CARBON DIOXIDE SENSOR AND HUMIDISTAT IN ACTIVITIES COMMONS.

3.051 M211B - FIRST FLOOR PLAN - UNIT B - HYDRONICS

- REISSUE THIS DRAWING IN ITS ENTIRETY.
- B. ADDED CARBON DIOXIDE SENSOR AND HUMIDISTAT IN ACTIVITIES COMMONS.

3.052 M211C - FIRST FLOOR PLAN - UNIT C - HYDRONICS

- A. REISSUE THIS DRAWING IN ITS ENTIRETY.
- B. REVISED PIPING NOTES.

3.053 M211D - FIRST FLOOR PLAN - UNIT D - HYDRONICS

- A. REISSUE THIS DRAWING IN ITS ENTIRETY.
- B. ADDED THERMOSTAT FOR EPUH-A.
- C. REMOVE ECUH-C.
- D. ADDED SHUT-OFF VALVES.

3.054 M212A - SECOND FLOOR PLAN - UNIT A - HYDRONICS

- A. REISSUE THIS DRAWING IN ITS ENTIRETY.
- B. ADDED CARBON DIOXIDE SENSOR AND HUMIDISTAT IN ACTIVITIES COMMONS.

3.055 M212B - SECOND FLOOR PLAN - UNIT B - HYDRONICS

Addendum ADD 1- 8 of 12

- A. REISSUE THIS DRAWING IN ITS ENTIRETY.
- B. ADDED CARBON DIOXIDE SENSOR AND HUMIDISTAT IN ACTIVITIES COMMONS.

3.056 M212D - SECOND FLOOR PLAN - UNIT D - HYDRONICS

- A. REISSUE THIS DRAWING IN ITS ENTIRETY.
- B. REVISED PIPE ROUTING.
- C. ADDED PIPE TAGS.

3.057 M301 - UNIT D - ENLARGED MECHANICAL ROOMS - MECHANICAL

- A. REISSUE THIS DRAWING IN ITS ENTIRETY.
- B. ADDED THERMOSTAT FOR EPUH-A.

3.058 M302 - UNIT A - ENLARGED MECHANICAL ROOM A219 - MECHANICAL

- A. REISSUE THIS DRAWING IN ITS ENTIRETY.
- B. ADDED THERMOSTAT FOR EPUH-A.
- C. REVISED EXHAUST DUCTWORK TO ERV-A.
- D. REVISED PIPE ROUTING.

3.059 M303 - UNIT B - ENLARGED MECHANICAL ROOM B222 - MECHANICAL

- A. REISSUE THIS DRAWING IN ITS ENTIRETY.
- B. ADDED THERMOSTAT FOR EPUH-A.

3.060 M304 - UNIT A - ENLARGED MECHANICAL ROOMS - MECHANICAL

- A. REISSUE THIS DRAWING IN ITS ENTIRETY.
- B. REVISED PIPING TO WSHP'S.

3.061 M305 - UNIT B - ENLARGED MECHANICAL ROOMS - MECHANICAL

- A. REISSUE THIS DRAWING IN ITS ENTIRETY.
- B. REVISED PIPING TO WSHP'S.

3.062 M901 - KITCHEN HOOD EF + GFMAU - SCHEDULES

- A. ISSUE THIS DRAWING IN ITS ENTIRETY.
- 3.063 M902 KITCHEN HOOD EF DETAILS + WINING DIAGRAM
 - A. ISSUE THIS DRAWING IN ITS ENTIRETY.

Addendum ADD 1- 9 of 12

- 3.064 M903 KITCHEN HOOD GFMAU DETAILS + WINING DIAGRAM
 - A. ISSUE THIS DRAWING IN ITS ENTIRETY.
- 3.065 M904 KITCHEN CONDENSATE EF DETAILS + WINING DIAGRAM
 - A. ISSUE THIS DRAWING IN ITS ENTIRETY.
- 3.066 M905 KITCHEN HOOD EF + GFMAU CONTROLS
 - A. ISSUE THIS DRAWING IN ITS ENTIRETY.
- 3.067 E100 SITE PLAN ELECTRICAL
 - A. REISSUE THIS DRAWING IN ITS ENTIRETY.
 - B. CHANGED LOCATION OF 'FG' FLAGPOLE FIXTURES. REDUCED QUANTITY FROM (3) TO (2).
- 3.068 E201A FIRST FLOOR PLAN UNIT A LIGHTING
 - A. REISSUE THIS DRAWING IN ITS ENTIRETY.
 - B. CHANGED LENGTH OF FIXTURE 'F03' INSTANCE.
 - C. REMOVED PLAN NOTE #10 REGARDING CEILING TRANSITION.
- 3.069 E201B FIRST FLOOR PLAN UNIT B LIGHTING
 - A. REISSUE THIS DRAWING IN ITS ENTIRETY.
 - B. CHANGED LENGTH OF FIXTURE 'F03' INSTANCE.
- 3.070 E201D FIRST FLOOR PLAN UNIT D LIGHTING
 - REISSUE THIS DRAWING IN ITS ENTIRETY.
 - B. CHANGED LOCATION OF (2) 'F91' FIXTURES IN SERVING LINE D173.
- 3.071 <u>E202A SECOND FLOOR PLAN UNIT A LIGHTING</u>
 - A. REISSUE THIS DRAWING IN ITS ENTIRETY.
 - B. CHANGED LENGTH OF FIXTURE 'F03' INSTANCE.
- 3.072 E601 SCHEDULES ELECTRICAL
 - A. REISSUE THIS DRAWING IN ITS ENTIRETY.
 - B. ADDED EQUALS TO INTERIOR FIXTURE SCHEDULE
 - C. REPLACED FLAGPOLE FIXTURE 'FG' IN EXTERIOR FIXTURE SCHEDULE.

Addendum ADD 1- 10 of 12

3.073 T101 – GROUND FLOOR OVERALL DISTRIBUTION PLAN

A. Revised riser conduit into D186.

3.074 T101D - GROUND FLOOR OVERALL DISTRIBUTION PLAN - UNIT D

A. Revised riser conduit into D186.

3.075 T102 - SECOND FLOOR OVERALL DISTRIBUTION PLAN

A. Revised riser conduit into D186.

3.076 T101D - SECOND FLOOR OVERALL DISTRIBUTION PLAN - UNIT D

A. Revised riser conduit into D186.

3.077 T302 - ENLARGED TR LAYOUTS

A. Revised MDF D186

- 1. Relocated ladder tray on West side of room
- 2. Relocated riser conduits on West side of room
- 3. Modified sheet note number from #9 to #7 on riser conduits on West side of room
- 4. Modified sheet note number from #7 to #9 on entrance conduits in SE corner of room
- 5. Added electronic access control power supplies

B. Revised IDF C164

- 1. Relocated S2 micronodes from West wall to South wall
- Added electronic access control power supplies
- Removed sheet note #11

C. Revised IDF A112

- 1. Added electronic access control power supplies
- 2. Removed sheet note #11

D. Revised IDF B129

- 1. Added electronic access control power supplies
- 2. Removed sheet note #11
- E. Added sheet note #12 to sheet.

PART 4 - OTHER ITEMS

Addendum ADD 1- 11 of 12



4.01 NOT USED

PART 5 - QUESTION AND ANSWER

- 5.01 Question: Asphalt paving sections shown in details 201,202/C800 are different than sections shown in details 1,2/L600. Please advise.
 - A. Response: The sections in the L series are correct per Geotech recommendations. Civil removed asphalt details from Sheet C800.
- 5.02 <u>It is assumed that the alternate #5 rugs are provided in addition to the carpet tile and LVT in the respective areas. Please confirm that is the case and the rugs are not provided in lieu of the carpet tile/LVT.</u>
 - A. Response: That is correct. Area rugs are an add alternate in addition to the base flooring.
- 5.03 Sheets A202A and A202B, Plan note #6 calls out a 4' high glass rail, but section cuts for the interior rail shows 42" high. Please clarify heights.
 - A. Response: Revised plan note 6 to read 42". Only exterior locations have 48" requirement.

END OF ADDENDUM

Addendum ADD 1- 12 of 12

DOCUMENT 00 11 13A - ADVERTISEMENT FOR BIDS

1.1 PROJECT INFORMATION

- A. Notice to Bidders: Prequalified bidders may submit bids for project as described in this Document. Submit bids according to the Instructions to Bidders.
 - 1. Regulatory Requirements: HEA 1196 shall govern submittal, opening, and award of bids.
- B. Project Identification: New Elementary #12 Maple Grove
 - 1. Project Location:

Tipton Lakes Blvd Columbus, IN 47201

Owner: Bartholomew Consolidated School Corporation (BCSC)

2. Owner's Representative:

Brett Boezeman boezemanb@bcsc.k12.in.us

Architect: CSO

3. Architect's Representative:

Emily Newton enewton@csoinc.net

Construction Manager: Pepper Construction

4. Construction Manager Representative:

McKinsey O'Neil mckinseyoneil@pepperconstruction.com

- C. Project Description: Project consists of 2 level steel structure with total square footage at roughly 100,000. The facility is located in a partially wooded field sloping towards a creek and sits adjacent to a church and across from a neighborhood development. The new facility will include a geothermal system as part of the building HVAC and glazed and precast exterior skin systems.
- D. Construction Contract: Bids will be received for the following work:

1. BP-01: Earthwork and Site Utilities

2. BP-02A: Building and Site Concrete

3. BP-02B: Masonry

4. BP-03: Precast

5. BP-04: Structural and Miscellaneous Steel

- 6. BP-05: Glass/Glazing and Metal Panels
- 7. BP-06: Roofing and Flashing
- 8. BP-07: Joint Sealants, Fireproofing and Firestopping, Dampproofing and Waterproofing, and Air Barriers
- 9. BP-08: Elevator
- 10. BP-09: Plumbing
- 11. BP-10: HVAC and Geothermal
- 12. BP-11: Electrical/Low Voltage/Security/Fire Alarm/HVAC and Door Roughins/Pathways
- 13. BP-12: Fire Suppression
- 14. BP-13: Landscape and Site Furnishings
- 15. BP-14: Playground Surfacing and Equipment
- 16. BP-15: Barrier Gates
- 17. BP-16A: Interior and Exterior Framing, Sheathing, Gypsum, Blocking, and Finishing
- 18. BP-16B: Ceilings
- 19. BP-17A: General Trades A (DFH)
- 20. BP-17B: General Trades B (Accessories, Gym Equipment, Wall Protection, Barrier Gates, etc.)
- 21. BP-18: Gym Flooring
- 22. BP-19: Flooring and Sealed Concrete
- 23. BP-20: Painting, Wall Coverings, and Sealed Concrete
- 24. BP-21: Millwork
- 25. BP-22: Asphalt
- 26. BP-23: Window Treatments
- 27. BP-24: Tiling
- 28. BP-25: Operable Partitions
- 29. BP-26: Spray Foam

30. BP-27: Food Service Equipment

1.2 BID SUBMITTAL AND OPENING

- A. Owner will receive lump sum bids in person until the bid time and date at the location given below. Owner will consider bids prepared in compliance with the Instructions to Bidders issued by Owner, and delivered as follows:
 - 1. Bid Day 1:
 - a. Packages Bidding: BP-01, BP-02A, BP-02B, BP-03, BP-04, BP-05, BP-06, BP-07, BP-08, BP-09, BP-10, BP-11, BP-12, BP-16A, BP-16B
 - b. Date: Tuesday, June 24, 2025
 - c. **Bid Time:** 2:00 p.m. EDT.
 - d. Location: Bartholomew Consolidated School Corporation Administrative Building, 1200 Central Ave., Columbus, IN 47201
 - 2. Bid Day 2:
 - a. Packages Bidding: BP-13, BP-14, BP-15, BP-17A, BP-17B, BP-18, BP-19, BP-20, BP-21, BP-22, BP-23, BP-24, BP-25, BP-26
 - b. **Date:** Thursday, June 26, 2025
 - c. **Bid Time:** 2:00 p.m. EDT.
 - d. Location: Bartholomew Consolidated School Corporation Administrative Building, 1200 Central Ave., Columbus, IN 47201

1.3 PREBID MEETING

- - 1. Bid Day 1 & 2 In-Person Pre-bid Meeting:
 - a. **Date:** Wednesday, June 11, 2025
 - b. **Time:** 10:00 a.m. EDT.
 - c. Location (In-Person): BCSC Administrative Building 1200 Central Ave., Columbus, IN 47201

1.4 DOCUMENTS

A. Online Procurement and Contracting Documents: Obtain access by contacting Caitlin Poe at cpoe@pepperconstruction.com Online access will be provided to all prequalified bidders.

1.5 TIME OF COMPLETION

A. Successful bidder shall begin the Work on receipt of the Notice to Proceed and shall complete the Work within the Contract Time.

1.6 BIDDER'S QUALIFICATIONS

- B. Bidders must be properly licensed under the laws governing their respective trades and be able to obtain insurance and bonds required for the Work. Bonding is required for this bid. Failure to submit with bid are grounds for bid being rejected.

1.7 NOTIFICATION

A. This Advertisement for Bids document is issued by McKinsey O'Neil, Project Manager, Pepper Construction Company of Indiana.

END OF DOCUMENT 00 11 13

DOCUMENT 00 21 15A – IN PERSON BID DAY(s)

1.1 BID OPENING INSTRUCTIONS

- A. Meeting(s) will be held in person at 1200 Central Ave., Columbus, IN 47201 in the Terrace Room (lower level). If planning to stay for bid opening(s), please email Caitlin Poe at cpoe@pepperconstruction.com for head count to set up space.
- B. Meeting attendees will be required to sign in at the facility visitor desk.
- C. Bids are due by 2:00pm EDT and the readings will begin as soon as bids are sorted into their appropriate categories and opening statement has been read. The meeting will end after last the bid has been opened and closing statements are made.

1.2 AGENDA

A. Opening Statement:

- 1. "This is the Bid Opening for Bartholomew Consolidated School Corporation Poject Number 2401688, Project Name New Elementary #12 Maple Grove. All Bids being read today will be reviewed further after the meeting to ensure complete coverage of bid package. Any bid package found to be incomplete or not meeting prequalification requirements will be at the discretion of ownership to reject."
- B. Bids Opened and Recorded

C. Closing Statement:

1. "Bartholomew Consolidated School Corporation reserves the right to reject any and all Bids. We will reach out to the apparent low bidders requesting information on tiered subcontractors, schedule of values, and more. All Bids will be reviewed for correctness of form. We thank you for bidding."

END OF DOCUMENT 00 21 15A

MARCH 2025 00 21 15A IN PERSON BID DAY

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

	Date (month, day, year):
1.	. Governmental Unit (Owner):
2	. County :
3.	. Bidder (Firm):
	Address:
	City/State/ZIPcode:
4.	. Telephone Number:
5.	. Agent of Bidder (if applicable):
Р	ursuant to notices given, the undersigned offers to furnish labor and/or material necessary to complete
the public	works project of
(Governm	nental Unit) in accordance with plans and specifications prepared by
	and dated for the sum of
	\$

The undersigned further agrees to furnish a bond or certified check with this bid for an amount specified in the notice of the letting. If alternative bids apply, the undersigned submits a proposal for each in accordance with the notice. Any addendums attached will be specifically referenced at the applicable page.

If additional units of material included in the contract are needed, the cost of units must be the same as that shown in the original contract if accepted by the governmental unit. If the bid is to be awarded on a unit basis, the itemization of the units shall be shown on a separate attachment.

The contractor and his subcontractors, if any, shall not discriminate against or intimidate any employee, or applicant for employment, to be employed in the performance of this contract, with respect to any matter directly or indirectly related to employment because of race, religion, color, sex, national origin or ancestry. Breach of this covenant may be regarded as a material breach of the contract.

CERTIFICATION OF USE OF UNITED STATES STEEL PRODUCTS (If applicable)

I, the undersigned bidder or agent as a contractor on a public works project, understand my statutory obligation to use steel products made in the United States (I.C. 5-16-8-2). I hereby certify that I and all subcontractors employed by me for this project will use U.S. steel products on this project if awarded. I understand that violations hereunder may result in forfeiture of contractual payments.

ACCEPTANCE

	The above bid is acc	cepted this	day o	of		, subject to the
followi	ng conditions:					
Contra	acting Authority Membe	ers:				
						
						
	(1	For projects of \$1	PART II Í 0.000 or ma	ore – IC	36-1-12-4)	
	,	, , , , , , , , , , , , , , , , , , ,			,	
	Governmenta	al Unit:				
	Bidder (Firm)					
	Date (month,	day, year):				· · · · · · · · · · · · · · · · · · ·
Attach	These statements to additional pages for e			n bidder v	with and as a part of his bi	id.
Attaon	additional pages for e	SECTION I EX		OHEST	IONNAIDE	
4	\\/\bat mublic weeks m					
1.	date of the current b		gariization con	ipietea ic	or the period of one (1) ye	ar prior to trie
	Contract Amount	Class of Work		oletion ate	Name and Address	of Owner
2.	What public works p	rojects are now in բ	process of con	struction	by your organization?	
	Contract Amount	Class of Work	Comp	ected pletion ate	Name and Address	of Owner

H	lave you ever failed to complete any work awarded to you?	If so, where and why?
_		
_ L	ist references from private firms for which you have performed work.	
- -		
-		
	SECTION II PLAN AND EQUIPMENT QUESTIONNA	IRE
У	explain your plan or layout for performing proposed work. (Examples could in could begin work, complete the project, number of workers, etc. and any selieve would enable the governmental unit to consider your bid.)	
_		
_		
И	Please list the names and addresses of all subcontractors (i.e. persons or fire who have performed part of the work) that you have used on public works properly along with a brief description of the work done by each subcontractor.	ms outside your own firm ojects during the past five (5
_		
_		
_		

If you intend to sublet any portion of the work, state the name and address of each subcontractor, equipment to be used by the subcontractor, and whether you will require a bond. However, if you are unable to currently provide a listing, please understand a listing must be provided prior to contract approval. Until the completion of the proposed project, you are under a continuing obligation to immediately notify the governmental unit in the event that you subsequently determine that you will use a subcontractor on the proposed project.
What equipment do you have available to use for the proposed project? Any equipment to be used by subcontractors may also be required to be listed by the governmental unit.
Have you entered into contracts or received offers for all materials which substantiate the prices used in preparing your proposal? If not, please explain the rationale used which would corroborate the prices listed.

SECTION III CONTRACTOR'S FINANCIAL STATEMENT

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

SECTION IV CONTRACTOR'S NON - COLLUSION AFFIDAVIT

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

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

SECTION V OATH AND AFFIRMATION

CONTAINED IN THE FOREGOING	BID FOR PUBLIC W	ORKS ARE TRUE AND CORRECT.	
Dated at	this	day of	,
		(Name of Organization)	
	Ву		
		(Title of Person Signing)	
	ACKNOWLE	DGEMENT	
STATE OF			
COUNTY OF) ss)		
Before me, a Notary Public, persona	ally appeared the abov	/e-named	and
swore that the statements contained	I in the foregoing docu	ument are true and correct.	
Subscribed and sworn to before me	this d	ay of,,	_·

My Commission Expires:

County of Residence:

Notary Public

BID OF
(Contractor)
(Address)
FOR
PUBLIC WORKS PROJECTS
OF

Filed,
Action taken

SECTION 00 62 75 - INFLATION REDUCTION ACT BREAKOUT FORM

PART 3 - EXECUTION

3.1 EXAMINATION OF SCHEDULE OF VALUE to provide tracking of the appropriate labor and

3.2 TRACKING FORM:

A. Columns shall be included that identify the system that qualifies, costs of the labor and material, manufacture red in the US

St. Xavier Locker Room	Labor Cost	Material Cost	US MFG
GEOTHERMAL CONTRACTOR			
Geothermal: Wellfield Driller, Excavation and			
Backfill			
Geothermal: Exterior HDPE Piping			
Geothermal: Exterior Grout			
Geothermal: Purging, Flushing, Cleaning			
HVAC CONTRACTOR			
Geothermal: Air Separator			
Geothermal: Expansion Tank			
Geothermal: Distribution Pumps			
Geothermal: Piping Accessories			
Geothermal: Isolation Valves			
Geothermal: VFDs			
Geothermal: Ground Source HP Steel Distribution			
Piping Mains			
Geothermal: Ground Source HP Copper Distribution			
Piping Run-outs			
Geothermal: Ground Source HP Heat Pump Steel			
Piping Accessories			
Geothermal: Ground Source HP Heat Pump Copper			
Piping Accessories			
Geothermal: Ground Source HP Heat Pump			
Isolation Valves			
Geothermal: Ground Source HP Heat Pump			
Condensate Piping			
Geothermal: Ground Source HP Condensate Piping			
Insulation			
Geothermal: Ground Source HP Water Treatment			
and System Flushing			
Geothermal: Ground Source HP Water-side TAB			
Geothermal: Ground Source HP			
Geothermal: Ground Source HP Sheet Metal			
Geothermal: Ground Source HP Sheet Metal			
Accessories			
Geothermal: Ground Source HP Sheet Metal			
Supply Air Insulation			
Geothermal: Ground Source HP Filter Boxes			
Geothermal: Ground Source HP Filters			
Geothermal: Ground Source HP Airside TAB			
Geothermal: Ground Source HP Sheet Metal			
Accessories			

Geothermal: Ground Source HP Sheet Metal	
Accessories	
Geothermal: Ground Source HP Ground Source	
Heat Pumps DOAS	
Geothermal: Ground Source HP DOAS Building	
Automation Controls	
Geothermal: Ground Source HP DOAS Filters	
Geothermal: Ground Source HP DOAS Sheet Metal	
Geothermal: Ground Source HP DOAS Sheet Metal	
Accessories	
Geothermal: Ground Source HP DOAS Airside TAB	
ELECTRICAL CONTRACTOR	
Geothermal: Electrical Distribution Panelboards	
Serving Ground Source HP	
Geothermal: Electrical Distribution Panelboard	
Wiring to Ground Source HP	
Geothermal: Electrical Distribution Panelboard	
Conduit to Ground Source HP	
Geothermal: Ground Source HP Disconnects	
Geothermal: Electrical Distribution Panelboards	
Serving Ground Source HP DOAS	
Geothermal: Electrical Distribution Panelboard	
Wiring to Ground Source HP DOAS	
Geothermal: Electrical Distribution Panelboard	
Conduit to Ground Source HP DOAS	
Geothermal: Ground Source HP DOAS Disconnects	
Geothermal: IT connections to BAS Control Panels	
Geothermal: 120V power wiring to VFDs and from	
VFD to equipment served	
Geothermal: 120V power conduit to VFDs and from	
VFD to Geothermal Distribution Pumps.	
Geothermal: 120V power wiring to BAS Control	
Panels	
1 2111212	
Geothermal: 120V power Conduit to BAS Control Panels	
TEMPERATURE CONTROL CONTRACTOR	
Geothermal: User Interface Programming for	
Ground Source Equipment	
Geothermal: Ground Source Equipment Control	
Wiring	
Geothermal: Ground Source Equipment Control	
Valves	
Geothermal: Ground Source Equipment Control	
Temperature Sensors	
Geothermal: Ground Source Equipment Control	
Pressure Sensors	
Geothermal: Ground Source Equipment Control	
Current Sensors	
Geothermal: Ground Source Equipment Control	
Relays	
Geothermal: Ground Source Equipment Space	
Sensors	
Geothermal: Ground Source Equipment Devices	

Form ST-105

State Form 49065 (R7 / 6-23)

Indiana Department of Revenue General Sales Tax Exemption Certificate

Indiana registered retail merchants and businesses located outside Indiana may use this certificate. The claimed exemption must be allowed by Indiana code. Exemption statutes of other states are not valid for purchases from Indiana vendors. This exemption certificate can not be issued for the purchase of <u>Utilities</u>, <u>Vehicles</u>, <u>Watercraft</u>, <u>Aircraft</u>, or <u>Gasoline</u>. In addition, this exemption certificate may not be issued by a nonprofit organization. Purchaser must be registered with the Department of Revenue or the appropriate taxing authority of the purchaser's state of residence.

Sales tax must be charged unless <u>all</u> information in each section is fully completed by the purchaser. Purchasers not able to provide all required information must pay the tax and may file a claim for refund (Form GA-110L) directly with the Department of Revenue. A valid certificate also serves as an exemption certificate for (1) county innkeeper's tax and (2) local food and beverage tax.

	Name of Purchaser: Pepper Construction of Indiana				
Section 1 (print only)	Business Address: 1850 W 15th St. City: Indianapolis State: IN ZIP Code: 46202				
	Purchaser must provide minimum of one ID number below.*				
(prin	Provide your Indiana Registered Retail Merchant's Certificate TID and LOC Number as shown on your Certificate.				
n 1	TID Number (10 digits): 0150462913 - LOC Number (3 digits): 001				
Section	If not registered with the Indiana DOR, provide your State Tax ID Number from another State *See instructions on the reverse side if you do not have either number.				
	State ID Number: State of Issue:				
Section 2	Name of Seller:				
Sec	Address of Seller: City: ZIP Code:				
Section 3	Is this a 🗹 blanket purchase exemption request or a 🗌 single purchase exemption request? (check one) Description of items to be purchased: Purchases for Bartholomew Consolidated School Corp Project # 2401688				
	Purchaser must indicate the type of exemption being claimed for this purchase. (check one or explain)				
	☐ Sales to a retailer, wholesaler, or manufacturer for resale only.				
	Sale of manufacturing machinery, tools, and equipment to be used directly in direct production .				
7	Sales of tangible personal property predominately used (greater then 50 percent) in providing public transportation - provide USDOT Number. A person or corporation who is hauling under someone else's motor carrier authority, or has a contract as a school bus operator , must provide their SSN or FID Number in lieu of a State ID Number in Section 1.				
on 4	USDOT Number:				
Section 4	Sales to persons, occupationally engaged as farmers, to be used directly in production of agricultural products for sale. Note: A farmer not possessing a State Business License Number may enter a FID Number or a SSN in lieu of a State ID Number in Section 1.				
	Sales to a contractor for exempt projects (such as public schools, government, or nonprofits).				
	Sales to Indiana Governmental Units (agencies, cities, towns, municipalities, public schools, and state universities).				
- 4	Sales to the United States Federal Government - show agency name. Note: A U.S. Government agency should enter its Federal Identification Number (FID) in Section 1 in lieu of a State ID Number.				
	Other - explain.				
Section 5	I hereby certify under the penalties of perjury that the property purchased by the use of this exemption certificate is to be used for an exempt purpose pursuant to the State Gross Retail Sales Tax Act, Indiana Code 6-2.5, and the item purchased is not a utility, vehicle, watercraft, aircraft, or gasoline. I further attest that the property purchased is not being purchased by a nonprofit organization.				
	I confirm my understanding that misuse, (either negligent or intentional), and/or fraudulent use of this certificate may subject both me personally and/or the business entity I represent to the imposition of tax, interest, and civil and/or criminal penalties.				
0,	Signature of Purchaser: Date: 5/30/2025				
	Printed Name: Katherine Degunya Title: Sr. Project Accountant				

The Indiana Department of Revenue may request verification of registration in another state if you are an out-of-state purchaser.

Seller must keep this certificate on file to support exempt sales.

Form ST-105 State Form 49065 (R7 / 6-23)

Indiana Department of Revenue General Sales Tax Exemption Certificate

Indiana registered retail merchants and businesses located outside Indiana may use this certificate. The claimed exemption must be allowed by Indiana code. Exemption statutes of other states are not valid for purchases from Indiana vendors. This exemption certificate can not be issued for the purchase of <u>Utilities</u>. <u>Vehicles</u>. <u>Watercraft</u>. <u>Aircraft</u>. <u>Or Gasoline</u>. In addition, this exemption certificate may not be issued by a nonprofit organization. Purchaser must be registered with the Department of Revenue or the appropriate taxing authority of the purchaser's state of residence.

Sales tax must be charged unless all information in each section is fully completed by the purchaser. Purchasers not able to provide all required information must pay the tax and may file a claim for refund (Form GA-110L) directly with the Department of Revenue. A valid certificate also serves as an exemption certificate for (1) county innkeeper's tax and (2) local food and beverage tax.

	Name of Purchaser: Bartholomew Consolidated School Corporation				
t only)	Business Address: 1200 Central Ave City: Columbus State: IN ZIP Code: 47201				
	Purchaser must provide minimum of one ID number below.*				
P.	Provide your Indiana Registered Retail Merchant's Certificate TID and LOC Number as shown on your Certificate.				
=	TID Number (10 digits): LOC Number (3 digits):				
Section 1 (print only)	If not registered with the Indiana DOR, provide your State Tax ID Number from another State *See instructions on the reverse side if you do not have either number.				
	State iD Number: State of Issue:				
7					
Section 2	Name of Seller:				
Sec	Address of Seller: City: State: ZIP Code:				
Section 3	Is this a 🗓 blanket purchase exemption request or a 🗖 single purchase exemption request? (check one) Description of items to be purchased: Meals, supplies, tools, materials, lodging/conference facilities, technology, registration fees and competition products.				
	Purchaser must indicate the type of exemption being claimed for this purchase. (check one or explain)				
Ш	Sales to a retailer, wholesaler, or manufacturer for resale only.				
	Sale of manufacturing machinery, tools, and equipment to be used directly in direct production.				
	Sales of tangible personal property predominately used (greater then 50 percent) in providing public transportation - provide USDOT Number. A person or corporation who is hauling under someone else's motor carrier authority, or has a contract as a school bus operator , must provide their SSN or FID Number in lieu of a State ID Number in Section 1.				
ž	USDOT Number:				
Section 4	Sales to persons, occupationally engaged as farmers, to be used directly In production of agricultural products for sale. Note: A farmer not possessing a State Business License Number may enter a FID Number or a SSN in lieu of a State ID Number in Section 1.				
	Sales to a contractor for exempt projects (such as public schools, government, or nonprofits).				
	Sales to Indiana Governmental Units (agencies, cities, towns, municipalities, public schools, and state universities).				
	Sales to the United States Federal Government - show agency name. Note: A U.S. Government agency should enter its Federal Identification Number (FID) in Section 1 in lieu of a State ID Number.				
	Other - explain.				
Section 5	I hereby certify under the penalties of perjury that the property purchased by the use of this exemption certificate is to be used for an exempt purpose pursuant to the State Gross Retail Sales Tax Act, Indiana Code 6-2.5, and the item purchased is not a utility, vehicle, watercraft, aircraft, or gasoline. I further attest that the property purchased is not being purchased by a nonprofit organization.				
	I confirm my understanding that misuse, (either negligent or intentional), and/or fraudulent use of this certificate may subject both me personally and/or the business entity I represent to the imposition of tax, interest, and civil and/or criminal penalties.				
S	Signature of Purchaser Server My Juney Date: 01/01/2025				
	Printed Name: James M Brinegar Title: Corporation Treasurer				
	The Indiana Department of Revenue may request verification of registration in another state if you are an out-of-state purchaser.				

Seller must keep this certificate on file to support exempt sales.

Instructions for Completing Form ST-105

All four sections of the ST-105 must be completed or the exemption is not valid and the seller is responsible for the collection of the Indiana sales tax.

Section 1

- A) This section requires an identification number. In most cases this number will be an Indiana Department of Revenue issued Taxpayer Identification Number (TID - see note below) used for Indiana sales and/or withholding tax reporting. If the purchaser is from another state and does not possess an Indiana TID Number, a resident state's business license, or State issued ID Number must be provided.
- B) Exceptions For a purchaser not possessing either an Indiana TID Number or another State ID Number, the following may be used in lieu of this requirement.

Federal Government - place your FID Number in the State ID Number space.

Farmer – place your SSN or FID Number in the State ID Number space.

Public transportation haulers operating under another motor carrier authority, or with a contract as a school bus operator, must indicate their SSN or FID Number in the State ID Number space.

Nonprofit Organization - must show its FID Number in the State ID Number space.

Section 2

- A) Check a box to indicate if this is a single purchase or blanket exemption.
- B) Describe product being purchased.

Section 3

- A) Purchaser must check the reason for exemption.
- B) Purchaser must be able to provide additional information if requested.

Section 4

- A) Purchaser must sign and date the form.
- B) Printed name and title of signer must be shown.

Note: The Indiana Taxpayer Identification Number (TID) is a ten digit number followed by a three digit LOC Number. The TID is also known as the following:

- a) Registered Retail Merchant Certificate
- b) Tax Exempt Identification Number
- c) Sales Tax Identification Number
- d) Withholding Tax Identification Number

The Registered Retail Merchant Certificate issued by the Indiana Department of Revenue shows the TID (10 digits) and the LOC (3 digits) at the top right of the certificate.

March 2025 00 72 16 Tax Exemption Certificate

SECTION 01 00 01 - GENERAL REQUIREMENTS

PART 1 - GENERAL

1.1 GENERAL SCOPE CLARIFICATIONS

- A. Scope of Work The descriptions in this proposal are not intended to limit the Scope of Work. Instead, the descriptions are intended to identify the minimum requirements in the primary areas of work. Therefore, your proposal is not limited to these descriptions, but it is assumed to cover the complete Scope of Work as shown and specified.
- B. Plans and Specifications All work is to be placed in strict accordance with the plans and specifications, unless specifically stated to the contrary within the terms of this Scope of Work.
- C. Contract Agreement The contract agreement supersedes any and all previous proposals, correspondence and/or conversations not explicitly included within this Scope of Work.
- D. Miscellaneous Costs Subcontractor is to include all costs for licenses, equipment rental and operation, unloading/handling, freight, and set-up charges applicable to the Work.
- E. Tax Exemption This project is tax exempt. A tax-exempt certificate will be provided for subcontractor's use.
- F. Daily Reports The Subcontractor shall submit a daily report to Pepper Construction. Whenever the Subcontractor is onsite, even for partial days and delivery of materials. The report shall list the number of workers onsite by trade and equipment and shall give appropriate details of work completed and milestones reached, as well as any delays or obstructions to the Subcontractor's work.
- G. Subcontractor Schedule Pepper Construction has developed a Master Project Schedule that is included as an exhibit to the bid documents. Within fifteen (15) days after award of this Contract, the Subcontractor shall submit a detailed schedule of his activities on the Project that is in conformance with the Master Schedule. The Subcontractor's schedule shall include all major work items, milestones, and task dependencies, both inside and outside his Scope of Work.
- H. Proper Manpower/Material/Equipment Subcontractor has reviewed Project Schedule and agrees to provide proper manpower, timely material deliveries and equipment as required to support the completion date.
- I. Schedule Compliance Schedule is critical on this Project. Should the Subcontractor's schedule slip from the Project Schedule and Look Ahead Schedule, the Subcontractor will be notified in writing, and within 24 hours will provide a recovery schedule acceptable to Pepper Construction. Should the Work not proceed in accordance with the accepted recovery schedule, Pepper Construction will have the right to take any actions necessary to ensure performance of the Work.
- J. Schedule Delay The Subcontractor shall include completion of their scope of Work according to the schedule included in this Bid Package. If subcontractor is delayed by Pepper Construction

- or another Subcontractor, preventing the completion of their Work as scheduled, this Subcontractor shall notify Pepper Construction in writing at the time of the delay.
- K. Submittals All product data, samples, shop drawings and submittals required for this Scope of Work are to be submitted within two (2) weeks of the date of Contract award or in the case of the Utility and Earthwork (Bid Package 01) subcontractor within one (1) week of subcontract award.
- L. Field Engineering The Subcontractor shall provide all surveying, layout, field engineering and verification of field dimensions required to perform the Work. Include all required field engineering and layout from an established benchmark, building corner, column line, or reference line. Pepper Construction will stake the property corners, rough stake the building corners, and will provide column lines on each floor of the building.
- M. Existing Topo This Subcontractor shall confirm the existing topographical information shown on the drawings prior to beginning work at the site and give written notification to Pepper Construction of any discrepancies. If the Subcontractor fails to confirm the existing conditions prior to the start of work they assumes full responsibility for any import or export material.
- N. Preceding Work The Subcontractor shall check and verify proper placement of the preceding work prior to installation of his Work. Advise the Pepper Construction superintendent of any discrepancies in sufficient time for corrective work to be performed without delay to the Project.
- O. On-Site Storage Due to very limited onsite storage area, Subcontractor should store materials offsite as much as possible. Approval from the Pepper Construction Project Superintendent required 24 hours prior to any major/substantial onsite delivery and storage of material furnished as part of the Scope of Work. Subcontractor is responsible for receipt, unloading, and proper storage of their materials. Due to site conditions, use of jobsite storage trailers may be limited and therefore must be coordinated with the Pepper Construction Superintendent.
- P. Equipment All equipment operated on the slab-on-grade must be diapered to prevent oil spills, and tires need to be white or completely covered. The work areas for equipment must be kept in a broom clean condition at all times to prevent the grinding of sand, gravel or other debris between tires or tracks and the finished surface
- Q. Site Restrictions The Subcontractor shall confine his operations, equipment and manpower to the site limits of this Project and/or as described by Pepper Construction Project Superintendent. All construction access to and from the site must use the designated access point(s).
- R. Protection of Work The Subcontractor shall have the responsibility to protect the finished product of other trades and shall be fully responsible for restoration to the work of other trades damaged by his employees. Subcontractor shall be responsible for all costs associated with the repair or replacement of its own Work and/or the work of others when the Subcontractor or any of its agents, employees, and suppliers causes such damage, or when the Subcontractor's Work is at variance with the requirements of the Contract Documents.
- S. Roads/Parking Lots The Subcontractor shall maintain all public and private roads and parking lots free from mud and debris generated by the performance of his Scope of Work. All trucks must enter and exit at the construction entrance and do all possible to keep mud and dirt off of

- streets. If trucks do track mud onto the public streets, this subcontractor is responsible to get it cleaned up immediately.
- T. Hoisting The Subcontractor is responsible for all hoisting required to perform their Scope of Work and/or coordinated with other Subcontractors currently on site.
- U. Scaffolding The Subcontractor is aware Pepper Construction will not provide scaffolding.
- V. Building Perimeter Grades The Subcontractor is aware that there will be no guarantee for level surfaces.
- W. Building Perimeter Access The Subcontractor is aware that the access around the building perimeter will not be stone or road base material, other than what is shown on the Civil Drawings and placed as per the construction schedule.
- X. Overtime/Weekends The Subcontractor shall work overtime and/or weekends at no additional cost to Pepper Construction, to make up for work days lost due to normal inclement weather or similar type conditions. Subcontractors are required to make every reasonable effort to work a minimum of 40 hours per week. If adverse weather conditions are the basis for a Claim for additional time, such Claim shall be documented by data substantiating the weather conditions were abnormal for the period of time, could not have been reasonably anticipated and had an adverse effect on the scheduled construction.
- Y. Price Escalation Labor rate and material escalations have been considered and are included for the duration of the job.
- Z. Permitting/Zoning Pepper Construction will obtain the general building or zoning permits. Any trade specific permits, inspection fees, licenses, royalties, etc. required for the proper execution of the Work are the responsibility of the Subcontractor and shall be secured in a timely manner as required to meet the Construction Schedule.
- AA. Existing Site Conditions It is understood and agreed that the Subcontractor has reviewed and has familiarized himself with the existing site conditions as it pertains to the Scope of Work herein, and therefore, is familiar with, and has accounted for, all requirements and the existing conditions that may necessitate for completion of this work and has included the cost of all such requirements in this Contract price. This Scope of Work includes any special requirements necessary to complete the Work in accordance with the Contract Documents.
- BB. Underground Utilities If the Work of this Contract involves any excavation, the Subcontractor shall be solely responsible to locate and protect any underground utilities prior to the start of work, whether such utilities are public or private, off-site or on-site. Include as required all hand digging exploratory work to locate remaining utilities and the subsequent digging around the utilities for execution of this Work. Should any utilities be damaged during work performed under this subcontract, the damage will be repaired or replaced, and the cost borne by this subcontractor.
- CC. Daily Clean Up The Subcontractor is responsible for the daily cleaning of his Work areas, including the disposal of lunch trash and other debris generated by his employees. From time-to-time, Pepper Construction may hire labor to clean up general job site debris that has accumulated. In such cases, Pepper Construction project manager shall distribute the costs of

such clean up among the responsible Subcontractors. Pepper Construction will have a dumpster on site for trash collection and removal. Project Superintendent will provide one (1) written warning to Subcontractor that they are not adequately performing this Contract requirement. After this warning, Pepper Construction will provide clean-up services and deduct their cost from funds due your company.

- DD. Final Cleaning Final cleaning is by others, however, the Subcontractor shall leave his Work in a "construction cleaned" condition. "Construction cleaned" is defined as being free from excess adhesives, caulking, installation compounds, grease, etc. used for the proper installation of the Work.
- EE. Work Coordination The Subcontractor shall coordinate his Work with the work of other trades as necessary to promote a smooth and orderly flow of work and meet the required schedule.
- FF. Safety Railing If the Subcontractor needs to remove perimeter safety railings to perform his Work, the Subcontractor shall remove and replace the safety railings at no additional expense to Pepper Construction. During the time that the safety railing is removed, the Subcontractor shall be responsible for performing the Work in this area per all applicable OSHA standards and provide necessary signage, barricades and/or caution tape to warn other personnel. After the Work is complete, the Subcontractor shall immediately reinstall the safety railing to meet OSHA and/or jobsite standards.
- GG. Project Meeting Attendance Subcontractor acknowledges the importance of onsite Project meetings in communicating current Project status, required Subcontractor coordination with other trades and level of your workforce required to adhere to current Project Schedule. Meetings will be held, as the Project demands, and the Subcontractor is required to have a supervisor attend the meetings. Subcontractor will be required to provide the above services two (2) weeks prior to start of work scope and during the time you are completing your work scope.
- HH. Work Corrections All workmanship and material shall be subject to the approval of the Owner, Architect and Pepper Construction. Subcontractor shall immediately proceed with repair, replacement or otherwise correct its work, which has been disapproved by those parties above listed.
- II. Move-Ins/Remobilization It is understood that Subcontractor's Work may not flow in a continuous manner and that additional move-ins and remobilization may be required at no additional cost to Pepper Construction.
- JJ. Subcontractor Supervision Subcontractor is required to provide one Superintendent or Foreman for Project to interface with Pepper Construction. Project Superintendent. Project Superintendent or Foreman will not be changed without approval of Pepper Construction Project Superintendent after start of Work. This Superintendent or Foreman shall be on site during time any of his crew is working and also shall attend the weekly coordination meetings, as applicable.
- KK. Project Work Hours Subcontractor acknowledges that the standard work hours for this Project will be 7:00 a.m. until 5:00 p.m. Monday through Friday. Subcontractor agrees to provide manpower as required to complete work scope as per attached Project Schedule during the above standard work hours. Work outside of standard work hours must be approved by Pepper Construction.

- LL. Subcontractor Site Inspection The Subcontractor has visited and inspected the job site. They understand the Project layout, site access, delivery conditions, and staging areas for the Project. Ongoing coordination of material deliveries and unloading sequences must be scheduled in advance with Pepper. In addition, any materials and/or equipment to be stored on the site will require prior approval of Pepper.
- MM. Testing/Inspections Where testing is required by the technical specification sections not identified specifically as owner testing/inspections, it will be provided by the Subcontractor. Retesting due to improper Work or any special testing that is not normal and is for the specific benefit of the Subcontractor shall be at the Subcontractor's expense.

NN. Safety and Insurance Requirements

- 1. Pepper Construction Safety Handbook procedures have been reviewed and all necessary provisions have been included in Base Bid.
- 2. The Subcontractor will promote safety awareness on the jobsite.
- 3. Job Site Specific Safety Plan to be prepared and submitted to Pepper Construction's Superintendent prior to mobilization. Work may not begin without this being complete. All tradesmen are required to receive site orientation prior to beginning their work onsite. Provisions for this time have been included.
- 4. Insurance requirements necessary to complete installations are included in base bid. A Certificate of Insurance must be issued to Pepper Construction Company prior to commencement of work at the site. Identify additional insured as required.
- 5. Provide prior to starting any work, MSDS sheets for all material used on the job. You will maintain a current log at the job site, including a copy for PCC's Superintendent.
- 6. Provide a copy of your company's Safety Plan to Pepper Construction's Superintendent. This will be kept in the job site office for the duration of your trade's work.
- 7. The use of cut resistant gloves is required at all times for trades with exposure to hand and finger cut hazards. Trades include, but are not limited to: electrical, mechanical, sheet metal, plumbing, carpentry, drywall, concrete and demolition.
- 8. Design and installation to be in accordance with insurance underwriter requirements.
- 9. All 2nd tier subcontractors must be safety pre-qualified prior to beginning their work onsite. It is the responsibility of this Subcontractor to submit this paperwork in a timely fashion as to not cause delays to the project schedule.

END OF SECTION 01 00 01

SECTION 01 23 00 - ALTERNATES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY

A. Section includes administrative and procedural requirements for alternates.

1.03 DEFINITIONS

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

1.04 PROCEDURES

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

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.01 SCHEDULE OF ALTERNATES

05/30/2025 01 23 00 - 1

A. Site Aggregate Path Alternate

- 1. Base Bid: No Stabilized Crushed Aggregate System Pathway.
- 2. Alternate: Include all costs to add Stabilized Crushed Aggregate system pathway. Refer to Plans for extents and relevant Details and Specifications that establish base requirements, profile depths, etc. Include all material, labor, and profit to deliver a turn-key system. Include a \$2500 allowance for a certified arborist to review trees along route after pathway alignment has been staked. Pricing shall be lump sum.

B. Playground Surfacing Alternate

- 1. Base Bid: Base Bid includes an Engineered Wood Fiber (EWF) resilient surfacing system.
- Alternate: Include all differential costs to upgrade identified EWF areas to a Synthetic Turf playground system. Refer to Plans for extents and relevant Details and Specifications that establish base requirements, drainage, profile depths, etc. Include all material, labor, and profit to deliver a turn-key system. Pricing shall be lump sum.
- C. Telescoping Stands and Retractable Audience Seating Alternate
 - 1. Base Bid: Telescoping Stand (12 66 00), and as indicated on drawings by any listed approved manufacturer.

Alternate: Additional cost to provide telescoping stands (12 66 00), and as indicated on drawings from Hussey Seating and Hussey Seatway, if <u>NOT</u> included in base bid price.

D. Motor-operated Roller Shades Alternate

1. Base Bid: No roller shades on clerestory windows in Cafeteria D171 or Gymnasium D172.

Alternate: Additional cost to provide motor-operated roller shades (12 24 13) at clerestory windows in Cafeteria D171 and Gymnasium D172, as indicated on drawings [RS4].

E. Area Rugs Alternate

1. Base Bid: No area rugs in classrooms or learning commons.

Alternate: Additional cost to provide area rugs at locations identified in A800 series drawings and specification section . Refer to A800 sheet for schedule and additional information.

END OF SECTION

05/30/2025 01 23 00 - 2

DOCUMENT 01 23 00 - ALTERNATES FORM

1.1	BID	INF	ORM	1ATI	ίΟN

A.	Bid Package Number:	

- B. Bidder:
- C. Project Name: New Elementary #12
- D. Project Location: Tipton Lakes Blvd., Columbus, IN 47201
- E. Owner: Bartholomew County School Corporation
- F. Architect: CSO/Howeler and Yoon
- G. Construction Manager: Pepper Construction Company of Indiana, LLC

1.2 BID FORM SUPPLEMENT

A. This form is required to be attached to the Bid Form.

1.3 DESCRIPTION

- A. The undersigned Bidder proposes the amount below be added to or deducted from the Base Bid if particular alternates are accepted by Owner. Amounts listed for each alternate include costs of related coordination, modification, or adjustment.
 - 1. Cost-Plus-Fee Contract: Alternate price given below includes adjustment to Contractor's Fee.
- B. If the alternate does not affect the Contract Sum, the Bidder shall indicate "NO CHANGE."
- C. If the alternate does not affect the Work of this Contract, the Bidder shall indicate "NOT APPLICABLE."
- D. The Bidder shall be responsible for determining from the Contract Documents the effects of each alternate on the Contract Time and the Contract Sum.
- E. CM reserves the right to accept or reject any alternate, in any order, and to award or amend the Contract accordingly within 60 days of the Notice of Award unless otherwise indicated in the Contract Documents.
- F. Acceptance or non-acceptance of any alternates by the CM shall have no effect on the Contract Time unless the "Schedule of Alternates" Article below provides a formatted space for the adjustment of the Contract Time.

MARCH 2025 01 23 00 ALTERNATES FORM

1.4	SCHEDULE OF ALTERNATES		
A.	Alternate 1:		
	1. Description	Dollars (\$) per unit.
B.	Alternate 2:		
	1. Description	Dollars (\$) per unit.
C.	Alternate 3:		
	1. Description	Dollars (\$) per unit.
D.	Alternate 4:		
	1. Description	Dollars (\$) per unit.
E.	Alternate 5:		
	1. Description	Dollars (\$) per unit.
1.5	SUBMISSION OF BID SUPPLEMENT		
A.	Respectfully submitted this day of	, 2025.	
В.	Submitted By:corporation).	(Insert name of	bidding firm or
C.	Authorized Signature:	(Handv	vritten signature)
D.	Signed By:	(Typ	e or print name)
E.	Title:	(Owner/Partner/Presiden	t/Vice President)

END OF DOCUMENT 01 23 00

MARCH 2025 01 23 00 ALTERNATES FORM

SECTION 05 52 13 - PIPE AND TUBE RAILINGS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY

- A. Section Includes:
 - 1. Aluminum pipe and tube railings.
 - 2. Aluminum handrails.
 - 3. Exterior stainless steel pipe and tube railings.
 - 4. Interior stainless steel handrails.

1.03 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Design railings, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.
 - 1. Comply with State and Local Codes.
 - Accessibility Standard: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines for Buildings and Facilities and ICC A117.1.
- B. General: In engineering railings to withstand structural loads indicated, determine allowable design working stresses of railing materials based on the following:
 - 1. Aluminum: The lesser of minimum yield strength divided by 1.65 or minimum ultimate tensile strength divided by 1.95.
 - 2. Stainless Steel: 60 percent of minimum yield strength.
- C. Structural Performance: Railings shall withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:
 - 1. Handrails and Top Rails of Guards:
 - a. Uniform load of 50 lbf/ ft. (0.73 kN/m) applied in any direction.
 - b. Concentrated load of 200 lbf (0.89 kN) applied in any direction.
 - c. Uniform and concentrated loads need not be assumed to act concurrently.
 - 2. Infill of Guards:
 - a. Concentrated load of 50 lbf (0.22 kN) applied horizontally on an area of 1 sq. ft. (0.093 sq. m).
 - b. Infill load and other loads need not be assumed to act concurrently.

- D. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes acting on exterior metal fabrications by preventing buckling, opening of joints, overstressing of components, failure of connections, and other detrimental effects.
 - Temperature Change: 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.
- E. Control of Corrosion: Prevent galvanic action and other forms of corrosion by insulating metals and other materials from direct contact with incompatible materials.

1.04 ACTION SUBMITTALS

- A. Product Data: For the following:
 - 1. Manufacturer's product lines of mechanically connected railings.
 - 2. Railing brackets.
 - 3. Grout, anchoring cement, and paint products.
- B. Shop Drawings: Include plans, elevations, sections, details, and attachments to other work.
- C. Samples for Initial Selection: For products involving selection of color, texture, or design.
- D. Samples for Verification: For each type of exposed finish required.
 - 1. Sections of each distinctly different linear railing member, including handrails, top rails, posts, and balusters.
 - 2. Fittings and brackets.
 - 3. Assembled Sample of railing system, made from full-size components, including top rail, post, handrail, and infill. Sample need not be full height.
 - a. Show method of finishing and connecting members at intersections.
- E. Delegated-Design Submittal: For installed products indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.05 INFORMATIONAL SUBMITTALS

A. Qualification Data: For qualified professional engineer.

1.06 QUALITY ASSURANCE

- A. Source Limitations: Obtain each type of railing from single source from single manufacturer.
- B. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated.
- C. Fabricator Qualifications: A firm experienced in producing metal stairs similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- D. Design and Fabrication Standards:

- 1. Fabricate railings in accordance with the recommendations of ANSI/NAAMM AMP-521. Finish joints in railings accordance with the following National and Ornamental & Miscellaneous Metal Association (NOMMA) standards:
 - a. Commercial Stairs, Guard Rails in Occupied Spaces: Type 1
 - b. Provide same level of quality for railings guarding floor openings as railings connected to stairs serving opening.
- E. Welding Qualifications: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code Steel."
- F. Welding Qualifications: Qualify procedures and personnel according to the following:
 - 1. AWS D1.2/D1.2M, "Structural Welding Code Aluminum."
 - 2. AWS D1.6, "Structural Welding Code Stainless Steel."

1.07 PROJECT CONDITIONS

A. Field Measurements: Verify actual locations of walls and other construction contiguous with metal fabrications by field measurements before fabrication.

1.08 COORDINATION AND SCHEDULING

- A. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written recommendations to ensure that shop primers and topcoats are compatible with one another.
- B. Coordinate installation of anchorages for railings. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.
- C. Schedule installation so wall attachments are made only to completed walls. Do not support railings temporarily by any means that do not satisfy structural performance requirements.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Aluminum Pipe and Tube Railings:
 - a. ATR Technologies, Inc.
 - b. Blumcraft. A Division of CR Laurence.
 - c. Moultrie Rail Systems.
 - d. Sterling Dula Architectural Products, Inc.; Div. of Kane Innovations.
 - e. Superior Aluminum Products, Inc.
 - f. Thompson Fabricating, LLC.
 - g. Tri Tech, Inc.
 - h. Tubular Specialties Manufacturing, Inc.
 - i. Tuttle Railing Systems; Div. of Dant Clayton.
 - j. Wagner, R & B, Inc.; a division of the Wagner Companies.

- k. HDI Railings.
- I. Hollaender.

2.02 METALS, GENERAL

- A. Metal Surfaces, General: Provide materials with smooth surfaces, without seam marks, roller marks, rolled trade names, stains, discolorations, or blemishes.
- B. Brackets, Flanges, and Anchors: Cast or formed metal of same type of material and finish as supported rails unless otherwise indicated.

2.03 ALUMINUM

- A. Aluminum, General: Provide alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, and with not less than the strength and durability properties of alloy and temper designated below for each aluminum form required.
- B. Extruded Bars and Tubing: ASTM B 221 (ASTM B 221M), Alloy 6063-T5/T52.
- C. Extruded Structural Pipe and Round Tubing: ASTM B 429/B 429M, Alloy 6063-T6.
 - 1. Provide Standard Weight (Schedule 40) pipe, unless otherwise indicated.
- D. Drawn Seamless Tubing: ASTM B 210 (ASTM B 210M), Alloy 6063-T832.
- E. Plate and Sheet: ASTM B 209 (ASTM B 209M), Alloy 6061-T6.
- F. Die and Hand Forgings: ASTM B 247 (ASTM B 247M), Alloy 6061-T6.
- G. Castings: ASTM B 26/B 26M, Alloy A356.0-T6.
- H. Panel Clips and Structural Fasteners: Alloy 6063-T6.

2.04 STAINLESS STEEL

- A. Tubing: ASTM A 554, Grade MT 304 for interior applications and Grade MT 316L for exterior applications.
- B. Pipe: ASTM A 312/A 312M, Grade TP 304 for interior applications and Grade TP 316L for exterior applications.
- C. Castings: ASTM A 743/A 743M, Grade CF 8 or CF 20 for interior applications and Grade CF 8M or CF 3M for exterior applications.
- D. Plate and Sheet: ASTM A 240/A 240M or ASTM A 666, Type 304 for interior applications and Type 316L for exterior applications.

2.05 FASTENERS

- A. General: Provide the following:
 - Aluminum Railings: Type 304 stainless-steel fasteners for interior; Type 316 for exterior.
 - 2. Stainless-Steel Railings: Type 316 stainless-steel fasteners.

- B. Fasteners for Anchoring Railings to Other Construction: Select fasteners of type, grade, and class required to produce connections suitable for anchoring railings to other types of construction indicated and capable of withstanding design loads.
- C. Fasteners for Interconnecting Railing Components:
 - 1. Provide concealed fasteners for interconnecting railing components and for attaching them to other work, unless otherwise indicated.
 - 2. Provide tamper-resistant flat-head machine screws for exposed fasteners unless otherwise indicated.
- D. Post-Installed Anchors: Torque-controlled expansion anchors or chemical anchors capable of sustaining, without failure, a load equal to six times the load imposed when installed in unit masonry and four times the load imposed when installed in concrete, as determined by testing according to ASTM E 488, conducted by a qualified independent testing agency.
 - Material for Interior Locations: Carbon-steel components zinc-plated to comply with ASTM B 633 or ASTM F 1941 (ASTM F 1941M), Class Fe/Zn 5, unless otherwise indicated.
 - 2. Material for Exterior Locations: Alloy Group 2 (A4) stainless-steel bolts, ASTM F 593 (ASTM F 738M), and nuts, ASTM F 594 (ASTM F 836M).

2.06 MISCELLANEOUS MATERIALS

- A. Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.
 - 1. For aluminum railings, provide type and alloy as recommended by producer of metal to be welded and as required for color match, strength, and compatibility in fabricated items.
 - 2. For stainless-steel railings, provide type and alloy as recommended by producer of metal to be welded and as required for color match, strength, and compatibility in fabricated items.
- B. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D 1187.
- C. Non-shrink, Nonmetallic Grout: Factory-packaged, non-staining, noncorrosive, nongaseous grout complying with ASTM C 1107. Provide grout specifically recommended by manufacturer for interior and exterior applications.
- D. Anchoring Cement: Factory-packaged, non-shrink, non-staining, hydraulic-controlled expansion cement formulation for mixing with water at Project site to create pourable anchoring, patching, and grouting compound.
 - Water-Resistant Product: At exterior locations and where indicated provide formulation that is resistant to erosion from water exposure without needing protection by a sealer or waterproof coating and that is recommended by manufacturer for exterior use.

2.07 FABRICATION

A. General: Fabricate railings to comply with requirements indicated for design, dimensions, member sizes and spacing, details, finish, and anchorage, but not less than that required to support structural loads.

- B. Assemble railings in the shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation. Use connections that maintain structural value of joined pieces.
- Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch (1 mm) unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.
- D. Form work true to line and level with accurate angles and surfaces.
- E. Fabricate connections that will be exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate.
- F. Cut, reinforce, drill, and tap as indicated to receive finish hardware, screws, and similar items.
- G. Connections: Fabricate railings with welded connections unless otherwise indicated.
- H. Welded Connections: Cope components at connections to provide close fit, or use fittings designed for this purpose. Weld all around at connections, including at fittings.
 - 1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
 - 2. Obtain fusion without undercut or overlap.
 - 3. Remove flux immediately.
 - 4. At exposed connections, finish exposed surfaces smooth and blended so no roughness shows after finishing and welded surface matches contours of adjoining surfaces.
- Welded Connections for Aluminum Pipe: Fabricate railings to interconnect members with concealed internal welds that eliminate surface grinding, using manufacturer's standard system of sleeve and socket fittings.
- J. Non-welded Connections: Connect members with concealed mechanical fasteners and fittings. Fabricate members and fittings to produce flush, smooth, rigid, hairline joints.
 - 1. Fabricate splice joints for field connection using an epoxy structural adhesive if this is manufacturer's standard splicing method.
 - 2. Fittings to be of the internal double tang type activated by a reverse knurl cup point set screw. Reverse knurl is required to ensure that screw does not come loose under vibration. Plain cup point screws will not be accepted. Fittings to be fastened to pipe by means of a 5/16 in. tubular rivet nut and socket head cap screw.
- K. Form changes in direction as follows:
 - 1. As detailed.
 - 2. By bending or by inserting prefabricated elbow fittings.
- L. Bend members in jigs to produce uniform curvature for each configuration required; maintain cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of components.
- M. Close exposed ends of railing members with prefabricated end fittings.

- N. Provide wall returns at ends of wall-mounted handrails unless otherwise indicated. Close ends of returns unless clearance between end of rail and wall is 1/4 inch (6 mm) or less.
- O. Brackets, Flanges, Fittings, and Anchors: Provide wall brackets, flanges, miscellaneous fittings, and anchors to interconnect railing members to other work unless otherwise indicated.
 - 1. At brackets and fittings fastened to gypsum board partitions, provide crushresistant fillers, or other means to transfer loads through wall finishes to structural supports and prevent bracket or fitting rotation and crushing of substrate.
- P. Fabricate splice joints for field connection using an epoxy structural adhesive if this is manufacturer's standard splicing method. Fabricate anchorage devices capable of withstanding loads imposed by railings. Coordinate anchorage devices with supporting structure.
- Q. Provide inserts and other anchorage devices for connecting railings to concrete or masonry work. Fabricate anchorage devices capable of withstanding loads imposed by railings. Coordinate anchorage devices with supporting structure.
- R. For railing posts set in concrete, provide stainless-steel sleeves not less than 6 inches (150 mm) long with inside dimensions not less than 1/2 inch (13 mm) greater than outside dimensions of post, with metal plate forming bottom closure.

2.08 FINISHES, GENERAL

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.
- D. Provide exposed fasteners with finish matching appearance, including color and texture, of railings.

2.09 ALUMINUM FINISHES

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

2.10 STAINLESS-STEEL FINISHES

- A. Remove tool and die marks and stretch lines, or blend into finish.
- B. Directional Satin Finish: No. 4.
- C. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine plaster and gypsum board assemblies, where reinforced to receive anchors, to verify that locations of concealed reinforcements have been clearly marked for Installer. Locate reinforcements and mark locations if not already done.

3.02 INSTALLATION, GENERAL

- A. Fit exposed connections together to form tight, hairline joints.
- B. Perform cutting, drilling, and fitting required for installing railings. Set railings accurately in location, alignment, and elevation; measured from established lines and levels and free of rack.
 - Do not weld, cut, or abrade surfaces of railing components that have been coated or finished after fabrication and that are intended for field connection by mechanical or other means without further cutting or fitting.
 - 2. Set posts plumb within a tolerance of 1/16 inch in 3 feet (2 mm in 1 m).
 - 3. Align rails so variations from level for horizontal members and variations from parallel with rake of steps and ramps for sloping members do not exceed 1/4 inch in 12 feet (5 mm in 3 m).
- C. Corrosion Protection: Coat concealed surfaces of aluminum that will be in contact with grout, concrete, masonry, wood, or dissimilar metals, with a heavy coat of bituminous paint.
- D. Adjust railings before anchoring to ensure matching alignment at abutting joints.
- E. Fastening to In-Place Construction: Use anchorage devices and fasteners where necessary for securing railings and for properly transferring loads to in-place construction.

3.03 RAILING CONNECTIONS

- A. Non-welded Connections: Use mechanical or adhesive joints for permanently connecting railing components. Seal recessed holes of exposed locking screws using plastic cement filler colored to match finish of railings.
- B. Welded Connections: Use fully welded joints for permanently connecting railing components. Comply with requirements for welded connections in "Fabrication" Article whether welding is performed in the shop or in the field.
- C. Expansion Joints: Install expansion joints at locations indicated but not farther apart than required to accommodate thermal movement. Provide slip-joint internal sleeve extending 2 inches (50 mm) beyond joint on either side, fasten internal sleeve securely to one side, and locate joint within 6 inches (150 mm) of post.

3.04 ANCHORING POSTS

A. Use metal sleeves preset and anchored into concrete for installing posts. After posts have been inserted into sleeves, fill annular space between post and sleeve with non-shrink, nonmetallic grout or anchoring cement, mixed and placed to comply with anchoring material manufacturer's written instructions.

- B. Form or core-drill holes not less than 5 inches (125 mm) deep and 3/4 inch (20 mm) larger than OD of post for installing posts in concrete. Clean holes of loose material, insert posts, and fill annular space between post and concrete with non-shrink, nonmetallic grout or anchoring cement, mixed and placed to comply with anchoring material manufacturer's written instructions.
- C. Leave anchorage joint exposed with anchoring material flush with adjacent surface.
- D. Anchor posts to metal surfaces with oval flanges, angle type, or floor type as required by conditions, connected to posts and to metal supporting members as follows:
 - 1. For aluminum pipe railings, attach posts using fittings designed and engineered for this purpose.
 - 2. For stainless-steel pipe railings, weld flanges to post and bolt to supporting surfaces.

3.05 ATTACHING RAILINGS

- A. Anchor railing ends at walls with round flanges anchored to wall construction and welded to railing ends or connected to railing ends using non-welded connections.
- B. Anchor railing ends to metal surfaces with flanges bolted to metal surfaces and welded to railing ends or connected to railing ends using non-welded connections.
- C. Attach railings to wall with wall brackets, except where end flanges are used. Provide brackets with 1-1/2-inch (38-mm) clearance from inside face of handrail and finished wall surface. Locate brackets as indicated or, if not indicated, at spacing required to support structural loads.
 - Use type of bracket with flange tapped for concealed anchorage to threaded hanger bolt.
 - Locate brackets as indicated or, if not indicated, at spacing required to support structural loads.
- D. Secure wall brackets and railing end flanges to building construction as follows:
 - 1. For concrete and solid masonry anchorage, use drilled-in expansion shields and hanger or lag bolts.
 - 2. For hollow masonry anchorage, use toggle bolts.
 - 3. For steel-framed partitions, use hanger or lag bolts set into fire-retardant-treated wood backing between studs. Coordinate with stud installation to locate backing members.
 - 4. For steel-framed partitions, use self-tapping screws fastened to steel framing or to concealed steel reinforcements.
 - 5. For steel-framed partitions, use toggle bolts installed through flanges of steel framing or through concealed steel reinforcements.

3.06 ADJUSTING AND CLEANING

A. Clean aluminum **or stainless steel** by washing thoroughly with clean water and soap and rinsing with clean water.

3.07 PROTECTION

- A. Protect finishes of railings from damage during construction period with temporary protective coverings approved by railing manufacturer. Remove protective coverings at time of Substantial Completion.
- B. Restore finishes damaged during installation and construction period so no evidence remains of correction work. Return items that cannot be refinished in the field to the shop; make required alterations and refinish entire unit, or provide new units.

END OF SECTION

SECTION 05 73 00 - DECORATIVE METAL RAILINGS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Structural Glass Railing System.

B. Related Requirements:

- 1. Section 055213 "Pipe and Tube Railings" for nonornamental railings fabricated from pipes and tubes.
- 2. Section 061000 "Rough Carpentry" for wood blocking for anchoring railings.

1.2 COORDINATION AND SCHEDULING

- A. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written instructions to ensure that shop primers and topcoats are compatible.
- B. Coordinate installation of anchorages for railings. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver items to Project site in time for installation.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.4 ACTION SUBMITTALS

A. Product Data:

- 1. Manufacturer's product lines of decorative metal railings assembled from standard components.
- 2. Woven-wire mesh infill panels.
- 3. Fasteners.
- 4. Post-installed anchors.
- 5. Handrail brackets.
- 6. Nonshrink, nonmetallic grout.
- 7. Anchoring cement.
- 8. Metal finishes.
- 9. Wood top rails
- 10. Railing brackets
- B. Shop Drawings: Include plans, elevations, sections, and attachment details.
- C. Samples for Initial Selection: For products involving selection of color, texture, or design,

including mechanical finishes.

- D. Samples for Verification: For each type of exposed finish required.
 - 1. Sections of each distinctly different linear railing member, including handrails, top rails, posts, and balusters
 - 2. Fittings, end caps, and brackets.
 - 3. Welded connections.
 - 4. Brazed connections.
 - 5. Assembled Sample of railing system, made from full-size components, including top rail, post, handrail, and guard infill. Sample need not be full height.
 - a. Show method of connecting and finishing members at intersections.
- E. Delegated Design Submittal: For railings, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For delegated design professional engineer.
- B. Mill Certificates: Signed by manufacturers of stainless steel products, certifying that products furnished comply with requirements.
- C. Welding certificates.
- D. Paint Compatibility Certificates: From manufacturers of topcoats applied over shop primers, certifying that shop primers are compatible with topcoats.
- E. Product Test Reports: For tests on railings performed by a qualified testing agency, in accordance with ASTM E894 and ASTM E935.

1.6 QUALITY ASSURANCE

- A. Welding Qualifications: Qualify procedures and personnel in accordance with the following:
 - 1. AWS D1.1/D1.1M, "Structural Welding Code Steel."
 - 2. AWS D1.2/D1.2M, "Structural Welding Code Aluminum."

1.7 DELIVERY, STORAGE, AND HANDLING

A. Protect mechanical finishes on exposed surfaces of railings from damage by applying a strippable, temporary protective covering before shipping.

1.8 MOCKUPS

A. Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for fabrication and installation.

1. Build mockups as cut-down assembly

1.9 FIELD CONDITIONS

A. Field Measurements: Verify actual locations of walls and other construction contiguous with railings by field measurements before fabrication.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design railings, including attachment to building construction.
- B. Structural Performance: Railings, including attachment to building construction, are to withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:
 - 1. Handrails and Top Rails of Guards:
 - a. Uniform load of 50 lbf/ft. applied in any direction.
 - b. Concentrated load of 200 lbf applied in any direction.
 - c. Uniform and concentrated loads need not be assumed to act concurrently.

Infill of Guards:

- a. Concentrated load of 50 lbf applied horizontally on an area of 1 sq. ft..
- b. Infill load and other loads need not be assumed to act concurrently.

2.2 MANUFACTURERS

- A. Basis of Design: Subject to compliance with requirements, provide Livers Bronze, Struct-U-Rail or approved comparable products by one of the following:
 - 1. Approved Manufacturer's:
 - a. Livers Bronze Co., Icon.
 - b. Viva Railings.
 - c. Laurence, C. R. Co., Inc.
 - d. Superior Aluminum Products, Inc.
 - e. Wagner, R & B, Inc.; a division of the Wagner Companies.
 - f. Tuttle Railings; a division of Dant Clayton
 - g. HDI Railings.
 - h. Hollaender.

2.3 METALS, GENERAL

- A. Metal Surfaces, General: Provide materials with smooth surfaces, without seam marks, roller marks, rolled trade names, stains, discolorations, or blemishes.
- B. Brackets, Flanges, and Anchors: Same metal and finish as supported rails unless otherwise indicated.

- Provide cast-metal brackets with flange tapped for concealed anchorage to threaded hanger bolt.
- 2. Provide either formed- or cast-metal brackets with predrilled hole for exposed bolt anchorage.
- 3. Provide formed-steel brackets with predrilled hole for bolted anchorage and with snap-on cover that matches rail finish and conceals bracket base and bolt head.

2.4 STAINLESS-STEEL

- A. Tubing: ASTM A 554, Grade MT 304 for interior applications and Grade MT 316L for exterior applications.
- B. Pipe: ASTM A 312/A 312M, Grade TP 304 for interior applications and Grade TP 316L for exterior applications.
- C. Castings: ASTM A 743/A 743M, Grade CF 8 or CF 20 for interior applications and Grade CF 8M or CF 3M for exterior applications.
- D. Plate and Sheet: ASTM A 240/A 240M or ASTM A 666, Type 304 for interior applications and Type 316L for exterior applications.

E. Finishes

- 1. Remove tool and die marks and stretch lines, or blend into finish.
- 2. Directional Satin Finish: No. 4.
- 3. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.

2.5 GLASS

- A. Laminated Glass: ASTM C 1172, Condition A (uncoated), Type I (transparent flat glass), Quality-Q3 with two plies of glass and polyvinyl butyral interlayer not less than 0.060 inch (1.52 mm) thick.
 - 1. Total Thickness: 9/16-inch, minimum.
 - 2. Kind: LT (laminated tempered).
 - Glass Color: Clear.
 - 4. Interlayer Color: Clear.
 - 5. Glass Plies for Glass Infill Panels: Thickness required by structural loads, but not less than 3.0 mm, each.
- B. Glazing Gaskets for Glass Panels: Glazing gaskets and related accessories recommended or supplied by railing manufacturer for installing glass infill panels in post-supported railings.

C. Top Rail (Interior & Exterior)

- 1. Stainless steel
- 2. Finish: Stain
- 3. Shape: As indicated on drawings.
- 4. Location: Discovery Center, Exterior Balconies

2.6 FASTENERS

A. Fastener Materials: Unless otherwise indicated, provide the following:

- 1. Aluminum Components: Type 304 stainless-steel fasteners.
- 2. Dissimilar Metals: Type 304 stainless-steel fasteners.
- B. Fasteners for Anchoring to Other Construction: Select fasteners of type, grade, and class required to produce connections suitable for anchoring railings to other types of construction indicated and capable of withstanding design loads.
- C. Provide concealed fasteners for interconnecting railing components and for attaching railings to other work unless exposed fasteners are unavoidable or exposed fasteners are the standard fastening method for railings indicated.
 - Provide tamper-resistant flat-head machine screws for exposed fasteners unless otherwise indicated.
- D. Anchors, General: Anchors capable of sustaining, without failure, a load equal to six times the load imposed when installed in unit masonry and four times the load imposed when installed in concrete, as determined by testing according to ASTM E 488, conducted by a qualified independent testing agency.
- E. Post-Installed Anchors: Torque-controlled expansion anchors or chemical anchors.
 - Material for Interior Locations: Carbon-steel components zinc plated to comply with ASTM B 633 or ASTM F 1941 (ASTM F 1941M), Class Fe/Zn 5, unless otherwise indicated.

2.7 MISCELLANEOUS MATERIALS

- A. Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.
- B. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D 1187.
- C. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107. Provide grout specifically recommended by manufacturer for interior and exterior applications.
- D. Anchoring Cement: Factory-packaged, nonshrink, nonstaining, hydraulic-controlled expansion cement formulation for mixing with water at Project site to create pourable anchoring, patching, and grouting compound.
 - Water-Resistant Product: At exterior locations and where indicated provide formulation that is resistant to erosion from water exposure without needing protection by a sealer or waterproof coating and that is recommended by manufacturer for exterior use.

2.8 FABRICATION

- A. General: Fabricate railings to comply with requirements indicated for design, dimensions, member sizes and spacing, details, finish, and anchorage, but not less than that required to support structural loads.
- B. Railing Components:
 - 1. **Stainless Steel** Shoe Base: Profile as selected by Architect.
 - 2. **Stainless Steel** Brackets: Profile as selected by Architect.

- C. Assemble railings in the shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation. Use connections that maintain structural value of joined pieces.
- D. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch (1 mm) unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.
- E. Form work true to line and level with accurate angles and surfaces.
- F. Fabricate connections that will be exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate. Locate weep holes in inconspicuous locations.
- G. Cut, reinforce, drill, and tap as indicated to receive finish hardware, screws, and similar items.
- H. Connections: Fabricate railings with welded or nonwelded connections unless otherwise indicated.
- I. Welded Connections: Cope components at connections to provide close fit, or use fittings designed for this purpose. Weld all around at connections, including at fittings.
 - 1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
 - 2. Obtain fusion without undercut or overlap.
 - 3. Remove flux immediately.
 - 4. At exposed connections, finish exposed welds to comply with NOMMA's "Voluntary Joint Finish Standards" for Type 1 welds: no evidence of a welded joint.
- J. Welded Connections for Aluminum Pipe: Fabricate railings to interconnect members with concealed internal welds that eliminate surface grinding, using manufacturer's standard system of sleeve and socket fittings.
- K. Mechanical Connections: Connect members with concealed mechanical fasteners and fittings. Fabricate members and fittings to produce flush, smooth, rigid, hairline joints.
 - 1. Fabricate splice joints for field connection using an epoxy structural adhesive if this is manufacturer's standard splicing method.
- L. Form changes in direction as follows:
 - 1. By bending or by inserting prefabricated elbow fittings.
- M. Bend members in jigs to produce uniform curvature for each configuration required; maintain cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of components.
- N. Close exposed ends of hollow railing members with prefabricated end fittings.
- O. Provide wall returns at ends of wall-mounted handrails unless otherwise indicated. Close ends of returns, unless clearance between end of rail and wall is 1/4 inch (6 mm) or less.

- P. Brackets, Flanges, Fittings, and Anchors: Provide cast or formed metal wall brackets, flanges, miscellaneous fittings, and anchors of same material and finish as supported railes to interconnect railing members to other work unless otherwise indicated.
 - 1. At brackets and fittings fastened to plaster or gypsum board partitions, provide crush-resistant fillers, or other means to transfer loads through wall finishes to structural supports and prevent bracket or fitting rotation and crushing of substrate.
 - 2. Provide cast brackets with flange tapped for concealed anchorage to threaded hanger bolt.
 - 3. Provide formed or cast brackets with predrilled hole for exposed bolt anchorage.
 - 4. Provide formed steel brackets with predrilled hole for bolted anchorage and with snap-on cover that matches rail finish and conceals bracket base and bolt head.
 - 5. Provide brackets with interlocking pieces that conceal anchorage. Locate set screws on bottom of bracket.
- Q. Provide inserts and other anchorage devices for connecting railings to concrete or masonry work. Fabricate anchorage devices capable of withstanding loads imposed by railings. Coordinate anchorage devices with supporting structure.
- R. For railing posts set in concrete, provide stainless-steel sleeves not less than 6 inches (150 mm) long with inside dimensions not less than 1/2 inch (13 mm) greater than outside dimensions of post, with metal plate forming bottom closure.
- S. Ease exposed edges to a radius of approximately 1/32 inch, unless otherwise indicated. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing the Work.
- T. Cut, reinforce, drill, and tap components, as indicated, to receive finish hardware, screws, and similar items.
- U. Provide weep holes or another means to drain entrapped water in hollow sections of railing members that are exposed to exterior or to moisture from condensation or other sources.
- V. Fabricate joints that will be exposed to weather in a watertight manner.

2.9 GLAZING PANEL FABRICATION

- A. General: Fabricate to sizes and shapes required; provide for proper edge clearance and bite on glazing panels.
 - 1. Clean-cut or flat-grind edges at butt-glazed sealant joints to produce square edges with slight chamfers at junctions of edges and faces
 - 2. Grind smooth exposed edges, including those at open joints, to produce square edges with slight chamfers at junctions of edges and faces.
- B. Glass Panels: Provide laminated glass panels.

2.10 GENERAL FINISH REQUIREMENTS

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipment.

- C. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.
- D. Provide exposed fasteners with finish matching appearance, including color and texture, of railings.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine plaster and gypsum board assemblies, where reinforced to receive anchors, to verify that locations of concealed reinforcements have been clearly marked for Installer. Locate reinforcements and mark locations if not already done.

3.2 INSTALLATION, GENERAL

- A. Perform cutting, drilling, and fitting required for installing railings.
 - 1. Fit exposed connections together to form tight, hairline joints.
 - 2. Install railings level, plumb, square, true to line; without distortion, warp, or rack.
 - 3. Set railings accurately in location, alignment, and elevation; measured from established lines and levels.
 - 4. Do not weld, cut, or abrade surfaces of railing components that have been coated or finished after fabrication and that are intended for field connection by mechanical or other means without further cutting or fitting.
 - 5. Set posts plumb within a tolerance of 1/16 inch in 3 feet.
 - 6. Align rails so variations from level for horizontal members and variations from parallel with rake of steps and ramps for sloping members do not exceed 1/4 inch in 12 feet.
- B. Control of Corrosion: Prevent galvanic action and other forms of corrosion by insulating metals and other materials from direct contact with incompatible materials.
- C. Adjust railings before anchoring to ensure matching alignment at abutting joints.
- D. Fastening to In-Place Construction: Use anchorage devices and fasteners where necessary for securing railings and for properly transferring loads to in-place construction.

3.3 RAILING CONNECTIONS

- A. Nonwelded Connections: Use mechanical or adhesive joints for permanently connecting railing components. Use wood blocks and padding to prevent damage to railing members and fittings. Seal recessed holes of exposed locking screws, using plastic cement filler colored to match finish of railings.
- B. Welded Connections: Use fully welded joints for permanently connecting railing components. Comply with requirements for welded connections in "Fabrication" Article, whether welding is performed in the shop or in the field.

C. Expansion Joints: Install expansion joints at locations indicated but not farther apart than required to accommodate thermal movement. Provide slip-joint internal sleeve, extending 2 inches beyond joint on either side; fasten internal sleeve securely to one side; and locate joint within 6 inches of post.

3.4 ANCHORING POSTS

- A. Form or core-drill holes not less than 5 inches deep and 3/4 inch larger than OD of post for installing posts in concrete. Clean holes of loose material, insert posts, and fill annular space between post and concrete with nonshrink, nonmetallic grout, or, anchoring cement, mixed and placed to comply with anchoring material manufacturer's written instructions.
- B. Cover anchorage joint with flange of same metal as post, welded to post after placing anchoring material.
- C. Anchor posts to metal surfaces with flanges, angle type, or floor type as required by conditions, connected to posts and to metal supporting members as follows:
 - For stainless steel railings, weld flanges to posts and bolt to metal-supporting surfaces.

3.5 ATTACHING RAILINGS

- A. Anchor railing ends to concrete and masonry with sleeves concealed within railing ends and anchored to wall construction with anchors and bolts.
- B. Anchor railing ends to metal surfaces with flanges bolted to metal surfaces and welded to railing ends.
- C. Attach handrails to walls with wall brackets, except where end flanges are used. Provide brackets with [1-1/2-inch]<Insert dimension> clearance from inside face of handrail and finished wall surface.
 - Use type of bracket with flange tapped for concealed anchorage to threaded hanger bolt.
 - 2. Locate brackets as indicated or, if not indicated, at spacing required to support structural loads.
- D. Secure wall brackets and railing end flanges to building construction as follows:
 - 1. For concrete and solid masonry anchorage, use drilled-in expansion shields and hanger or lag bolts.
 - 2. For hollow masonry anchorage, use toggle bolts.
 - 3. For wood stud partitions, use hanger or lag bolts set into studs or wood backing between studs. Coordinate with carpentry work to locate backing members.
 - 4. For steel-framed partitions, use hanger or lag bolts set into fire-retardant-treated wood backing between studs. Coordinate with stud installation to locate backing members.

3.6 CLEANING

A. Clean stainless steel by washing thoroughly with clean water and soap, rinsing with clean

water, and wiping dry.

3.7 PROTECTION

- A. Protect finishes of railings from damage during construction period with temporary protective coverings approved by railing manufacturer. Remove protective coverings at time of Substantial Completion.
- B. Restore finishes damaged during installation and construction period, so no evidence remains of correction work. Return items that cannot be refinished in the field to the shop; make required alterations and refinish entire unit, or provide new units.

END OF SECTION

SECTION 32 18 18 - PLAYGROUND PROTECTIVE SURFACING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes synthetic turf playground surfacing system.
- B. Related Sections include the following:
 - 1. Division 31 Section "Earth Moving" for excavation and grading work.
 - 2. Division 11 Section "Playground Equipment" for installation of play equipment.
 - 3. Division 3 Section "Site Cast-in-Place Concrete" for concrete footings.

1.3 DEFINITIONS

- A. Critical Height: Standard measure of shock attenuation. According to CPSC No. 325, this means "the fall height below which a life-threatening head injury would not be expected to occur."
- B. Fall Height: According to ASTM F 1487, this means "the vertical distance between a designated play surface and the protective surfacing beneath it." The fall height of playground equipment should not exceed the Critical Height of the protective surfacing beneath it.
- C. Protective Surfacing: According to ASTM F 1487, this means impact-attenuating "materials to be used within the use zone of any playground equipment" for playground surface systems.
- D. Use Zone: According to ASTM F 1487, this is "the area beneath and immediately adjacent to a play structure that is designated for unrestricted circulation around the equipment and on whose surface it is predicted that a user would land when falling from or exiting the equipment."

1.4 SUBMITTALS

- A. Product Data: For each type of product indicated. Include installation details, material descriptions, profiles, colors and finishes.
- B. Samples for Initial Selection: Manufacturer's color charts and 6-inch (150-mm) square samples of actual surface materials.

C. Product Test Reports:

 ASTM F 1292-17: Impact Attenuation Test Certification for the play surface system to be installed in compliance with the Critical Fall Height as determined by the Playground Equipment to be installed in conjunction with the play surfacing system.

- 2. ASTM D 2859: Flammability.
- 3. ASTM D 2047-82: Coefficient of Friction.
- 4. ASTM D 412-87: Tensile Strength.
- 5. ASTM D 624-86: Tear Resistance.
- 6. Permeability Coefficient: Five (5) feet per minute.
- D. Statement of Warranty for a minimum five-year period with detailed Warranty Claim requirements of the owner and specific procedures to be followed by the manufacturer in terms of response and repair of warranty claims.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: The installation of the play surface product shall be completed by Manufacturer Certified Contractors or by direct employees of the Manufacturer's Installation Division.
- B. Manufacturer Qualifications: Manufacturer shall have installed playground surfacing systems for a minimum of five (5) years with no fewer than five (5) similar projects in scale.
- C. Standards and Guidelines: Provide playground equipment and resilient surfacing complying with or exceeding requirements in the following:
 - 1. CPSC No. 325, "Handbook for Public Playground Safety."

1.6 COORDINATION

- A. Coordinate construction of equipment use zones and fall heights during installation of playground equipment with installation of resilient surfacing specified herein. Sequence work so resilient surfacing can be installed immediately after equipment installation is complete.
- B. Concrete footings have been identified in the Division 11- "Playground Equipment" specification as held 12" below finished grade within all protective play surfacing conditions. Account for any related impacts on overall footing depth and quantity of surfacing material to achieve CPSC guidelines.

PART 2 - PRODUCTS

2.1 PRODUCTS

- A. Products: Subject to compliance with requirements, provide CPSC-compliant surfacing systems as indicated in the Drawings.
- B. Manufacturer: Subject to compliance with requirements, provide ADA-compliant playground surfacing products by the following manufacturers, or approved equal prior to bidding.
 - 1. ForeverLawn, North Canton, OH, 866.992.7876
 - a. Product: Playground Grass Ultra Green
 - b. Product: 10' Mound
 - c. Product: 8' Mound with Slide
 - 2. T°Cool® Cincinnati, OH, 513.580.4115

- a. Product: T°Cool®, Comply with manufacturers instructions for installation.
- C. Colors: As selected by Landscape Architect from manufacturer's full range for resilient applications.

2.2 SYNTHETIC TURF

- A. Description: As recognized and approved by CPSC Guidelines and ADA Standards, free of chemicals or stains that might be toxic to users or able to transfer onto clothing or shoes.
 - 1. General Description: All necessary material components and application shall be required to install a synthetic turf system. The turf system shall be composed of synthetic carpet wearing course filled with sand ballast and an impact attenuation pad underneath.
 - Quality Assurance: The turf manufacturer shall have manufactured and marketed this system in the United States for a period of five (5) years. Install should be by a "certified" installer or by a competent installer using the instructions provided by the manufacturer. The turf system shall be designed to meet current ADA, CPSC and ASTM requirements. Acceptable substrates are: compacted crushed stone or other materials approved by the manufacturer.
 - 3. Submittals: Samples shall be submitted in all the colors available.
 - 4. Delivery, Storage and Handling: All materials shall be delivered in good condition in its original unopened package, bound and shrink wrapped with labels intact. All materials shall be protected from weather and the adhesive shall be stored on temperature of 40 degrees F or greater.
 - 5. Job Conditions: At the time of application ambient air temperature shall be 40 degrees F or greater. All materials shall be un-stacked and laid out prior to installation. All materials shall be protected from weather and other damage prior to application, during application and while glue is curing.
 - 6. Alternatives: The owner/architect shall approve any system or series prior to the bid date. Alternate information and samples shall be provided in writing. The series to be considered equal must meet the "Playground Grass Ultra" by ForeverLawn Inc..
 - 7. Products: All components of the turf system shall be obtained from the turf manufacturer or its authorized distributors and shall be manufactured in the United States of America, and meet the standard specifications set herein.
 - 8. Materials:
 - a. Pile Weight: 48 oz. per square foot or substantially similar and approved prior to bidding.
 - b. Yarn Types/Sizes:
 - 1) Primary Fiber: Polyethylene Slit film or Monofilament;
 - 2) Secondary Fiber: monofilament thatch layer, polyethylene or nylon.
 - 3) Provide data with micron ratings and validation of yarn types for consideration of the Landscape Architect prior to bidding.
 - c. Pile Height: Consistent 1 5/8" height throughout all areas of the play surface.
 - d. Construction Method: Broadloom Tufted, 3/8" tufting gauge or as approved in submitted samples.
 - e. Primary/Secondary Backing: 13 Pic Polybac / US80NW or equal Non-woven /18 Pic Polybac or as approved in submitted samples.
 - f. Total Product Weight: 113 oz. / sq. yard or substantially similar and approved prior to bidding.
 - g. Seams: Seams shall be glued. Mechanically bonded or stitched seams shall be approved in submitted samples.
 - h. Fill Requirement: Unless otherwise listed below, encapsulated sand, **T°Cool®** or crumb rubber per manufacturer's recommended weight.

- i. Impact Attention Pad: Pad shall be obtained from the turf manufacturer or its authorized distributor. Pad materials shall be either foam or rubber. Thickness for under play equipment shall be sized to meet or exceed critical fall height of play equipment throughout the use zone compliant to ASTM 1292. Thickness of pad for areas outside of play equipment use zone shall be sized to meet or exceed critical fall height of 6'-0" compliant to ASTM 1292.
- 9. Testing: All turf shall meet the current guidelines from ASTM, CPSC, USGBC-LEED and ADA for fall height, weathering(Aging), Spread of Flames, Skid Resistance, ADA, Lead Content, R-Value, Reflectance/SRI & Emittance, Water Penetration and USGBC.
- 10. Warranty: The manufacturer shall provide a standard five (5) year warranty or a ten (10) year pro-rated warranty.

PART 3 - EXECUTION

3.1 PREPARATION

- A. The sub-base of the entire area to be surfaced shall be cleared of any foreign materials and treated with sterilizing spray products to completely eliminate growth of grass, weeds, etc.
- B. Protect all adjacent trees, equipment, pavement and wall surfaces from damage during surfacing installation.

3.2 INSTALLATION

- A. General: Comply with manufacturer's written installation instructions, unless more stringent requirements are indicated.
 - 1. Maximum Equipment Height: Coordinate installed heights of equipment and components with installation of resilient surfacing.
- B. Excavate area to dimensions and depth as indicated in the Drawings. Confirm use zone for each play structure with manufacturer's coordination drawings.
- C. The native sub-base shall be graded to allow for proper drainage that will prevent sub-base erosion.
- D. The native sub-base shall be compacted to a 95% rating.
- E. Carefully coordinate the finished grade of the subbase as it relates to the required fall height above. The Contractor will be accountable for achieving all required safety criteria.
- F. Plastic play-surface container curbing (only required when denoted in Plans) shall be installed at the perimeter of areas not bounded by concrete slabs or asphalt pavement. Curbing shall be set at an acceptable grade level to permit proper drainage. Example products include 4' x 12" x 4" Tuff Timbers with 30"-long with galvanized steel stakes to hold timbers in place, as manufactured by Landscape Structures, Inc.
- G. Crushed Stone Base: Installation of a minimum four (4) inch layer of #8 crushed stone shall be completed and compacted to a 95% rating and a $\pm \frac{1}{4}$ " level when measured with a ten foot straight edge in any direction.

- H. Separation Fabric: A non-woven geotextile fabric shall be applied over the compacted and graded stone sub-base. The application of the poured in-place system shall be applied over the geotextile membrane.
- The system installer shall inspect the above work prior to installation of resilient surfacing materials.
- J. Resilient Surface System: Install in strict accordance with manufacturer's instructions, approved shop drawings and submittals, complying with critical fall height requirements. Carefully coordinate depths with the General Contractor to ensure the proper quantity of material is understood.
- K. Ensure the finished surface is fully accessible and compliant with ADA guidelines. Take care to properly compact all transitions from protective to paved surfacing.

3.3 FIELD QUALITY CONTROL

- A. Arrange for manufacturer's technical personnel to inspect playground surfacing during installation and at final completion and to certify compliance with the following applicable standards.
 - 1. CPSC No. 325, "Handbook for Public Playground Safety."
 - 2. ASTM F 1487.
- B. Notify Landscape Architect and Owner 48 hours in advance of date and time of final inspection.

3.4 CLEANING

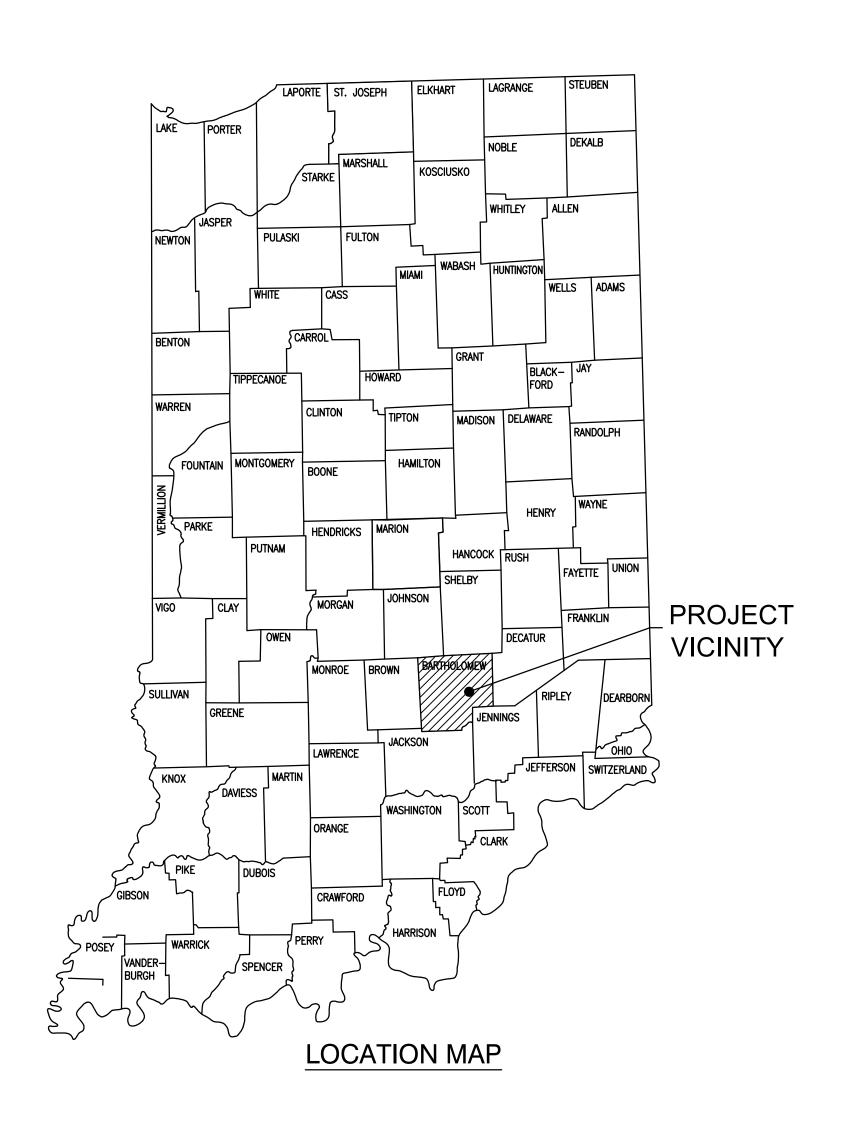
A. After completing surface installation, inspect the entire area. Remove debris and repair or replace effective materials.

END OF SECTION 32 18 16

BCSC MAPLE GROVE ELEMENTARY SCHOOL

TIPTON LAKES BLVD
COLUMBUS, INDIANA 47201
100% CONSTRUCTION DOCUMENTS
CIVIL PLANS
MAY 30, 2025

ADDENDUM #1: JUNE 10, 2025





	VICINITY MAP
43	BASE IMAGE FROM GOOGLE EARTH ACCESSED SEPTEMBER, 2024
V	SCALE: 1"=200'
NORTH	SCALE IN FEET

PROJECT TEAM:	
ANDSCAPE ARCHITECT CONTEXT DESIGN 825 LAWTON LOOP E DR NDIANAPOLIS, IN 46216 H: (317) 485-6900 CONTACT: LIZ MOONEY MAIL: LMOONEY@context-design.com	SURVEYOR CIVIL & ENVIRONMENTAL CONSULTANTS, INC. 530 E. OHIO ST., STE. G INDIANAPOLIS, IN 46204 PH: (317) 655-7777 CONTACT: ANTHONY SYERS EMAIL: asyers@cecinc.com
EIVIL ENGINEER EIVIL & ENVIRONMENTAL EONSULTANTS, INC. 30 E. OHIO ST., STE. G NDIANAPOLIS, IN 46204 H: (317) 655-7777	ARCHITECT CSO ARCHITECTS 8831 KEYSTONE CROSSING INDIANAPOLIS, IN 46240 PH: (317) 848-7800 CONTACT: JIM FUNK

UTILITIES:		
GAS CENTERPOINT ENERGY 4324 MIDDLE RD COLUMBUS, IN 47203	ELECTRIC DUKE ENERGY 2727 CENTRAL AVE COLUMBUS, IN 47201	SANITARY SEWER COLUMBUS CITY UTILITIE 1111 MCCLURE RD COLUMBUS, IN 47201 (812)372-8861 ATTN: SCOTT DOMPKE

EMAIL: JFunk@CSOinc.net

RM SEWER	WATER	FIRE DEPARTMEN
MBUS ENGINEERING MASHINGTON ST. MBUS, IN 47201 376-2540 ANDREW BECKORT	COLUMBUS CITY UTILITIES 1111 MCCLURE RD COLUMBUS, IN 47201 (812)372-8861 ATTN: SCOTT DOMPKE	COLUMBUS FIRE DEPAR 1101 JACKSON ST. COLUMBUS, IN 47201 (812)376—2583 ATTN: TROY TODD

PLANNIN	G DEPA	RTMENT
		DEPARTMENT
123 WASHIN COLUMBUS,		
(812)376-2		
ÀTTN: JEFF		

CONTACT: JONATHAN PASYK

_{ЕМАІІ:} jpasyk@cecinc.com

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: SET MAG NAIL IN CONCRETE AT THE SOUTH END OF A MEDIAN LOCATED AT THE INTERSECTION OF TIPTON LAKES BLVD. AND WESTBROOK CT. ELEV. = 673.65
TBM#2: SET MAG NAIL WEST SIDE OF MEDIAN 400' \pm SOUTH OF INTERSECTION OF TIPTON LAKES BLVD AND WESTBROOK COURT. ELEV. = 666.55
TBM#3: SET MAG NAIL IN CONCRETE AT THE NORTH END OF A MEDIAN LOCATED AT THE INTERSECTION OF TIPTON LAKES BLVD AND SCARBOROUGH DR.

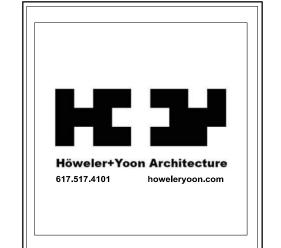
UTILITY NOTE:
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN—SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE 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 2405235264 AND 2405235311 WERE ISSUED FOR THIS SITE.
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 ZONE "X" (UN-SHADED) AS SAID PARCEL PLOTS ON MAP NUMBERS 18005C0110E AND 18005C0128E (DATED DECEMBER 9, 2014) OF THE FLOOD INSURANCE RATE MAPS FOR 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.

Sheet Number	Sheet Title	Drawing Number
1	TITLE SHEET	C000
2	BOUNDARY RETRACEMENT SURVEY	BNDRY1
3	BOUNDARY RETRACEMENT SURVEY	BNDRY2
4	TOPOGRAPHIC SURVEY	TOPO1
5	TOPOGRAPHIC SURVEY	TOPO2
6	TOPOGRAPHIC SURVEY	TOPO3
7	TOPOGRAPHIC SURVEY	TOPO4
8	SITE DEMOLITION	C101
9	OVERALL GRADING PLAN	C300
10	GRADING PLAN	C301
11	GRADING PLAN	C302
12	GRADING PLAN	C303
13	OVERALL FLOOD ROUTING PLAN	C304
14	OVERALL STORMWATER PLAN	C400
15	STORMWATER STRUCTURES	C401
16	STORMWATER PLAN-EAST	C402
17	STORMWATER PLAN-WEST	C403
18	STROMWATER PROFILES	C404
19	STORMWATER PROFILES	C405
20	OVERALL UTILITY PLAN	C500
21	UTILITY PLAN	C501
22	UTILITY PLAN	C502
23	SITE DETAILS	C800
24	WATER DETAILS	C801
25	SANITARY DETAILS	C802
26	STORMWATER DETAILS	C803
27	STORMWATER DETAILS	C804
28	STORMWATER POLLUTION & PREVENTION PLAN	C900
29	STORMWATER POLLUTION & PREVENTION PLAN	C901
30	STORMWATER POLLUTION & PREVENTION PLAN	C902
31	STORMWATER POLLUTION & PREVENTION NOTES	C903
32	STORMWATER POLLUTION & PREVENTION DETAILS	C904









BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION APLE GROVE ELEMENTARY SCHOC

SCOPE DRAWINGS:

These drawings indicate the general scope of the proje 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 al work required for full performance and completion of the requirements of the Contract.

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

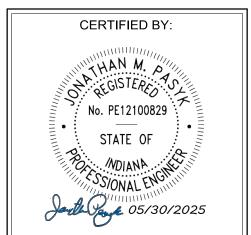
REVISIONS:

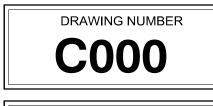
106/10/2025 - ADDENDUM #01

ISSUE DATE	DRAWN BY	CHECKED
05/30/25	BEB	JMP

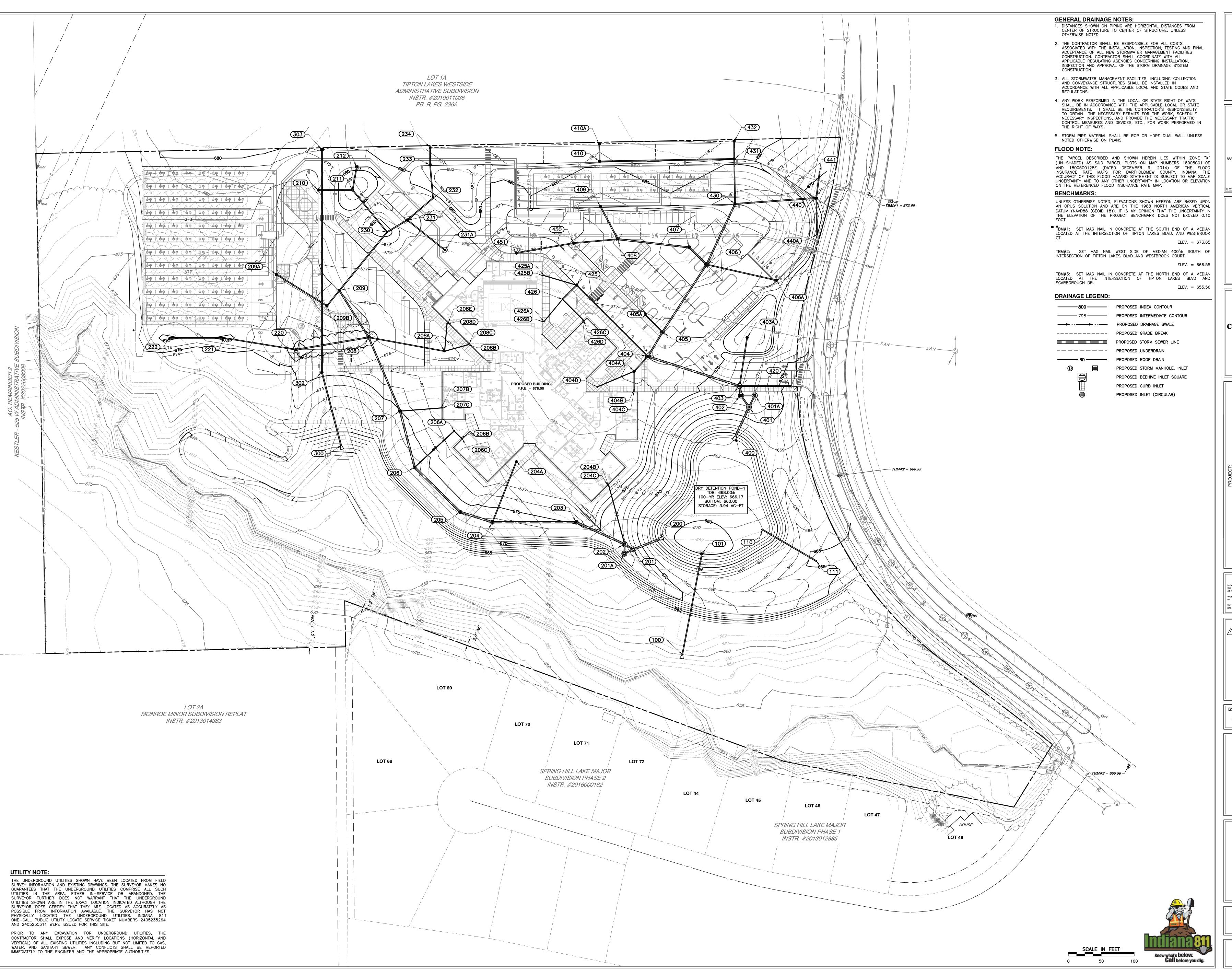
DRAWING TITLE:

TITLE SHEET







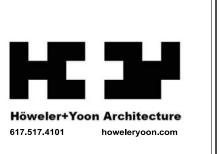




ഗ CSO

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Civil & Environmental
Consultants, Inc.

530 E. Ohio Street · Suite G
Indianapolis, IN 46204

317-655-7777 · 877-746-0749 www.cecinc.com

SARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION PLE GROVE ELEMENTARY SCHOO

SCOPE DRAWINGS:

drawings indicate the general scope of the project farchitectural design concept, the dimensions of the major architectural elements and the type al, mechanical and electrical systems, arawings do not necessarily indicate or describe all ired for full performance and completion of the mits of the Contract.

be basis of the general scope indicated or described contractors shall furnish all items required for the secution and completion of the work.

REVISIONS:

1 06/10/2025 - ADDENDUM #01

ISSUE DATE DRAWN BY CHECKED BY 05/30/25 BEB JMP

OVERALL

STORMWATER PLAN

CERTIFIED BY:

No. PE12100829

STATE OF

WDIANA

SONAL ENGINEER

O5/30/2025

C400

PROJECT NUMBER 2024022

		Structu	re Table				
Structure Name	RIM E.	INVERT IN	INVERT OUT	REMARKS			
100	660.55	101 = 659.30		Conc. Flared End Section			
101	666.17		101 = 660.00	OUTLET CONTROL STR. Inlet Type J NEENAH R-3455-C			
110	662.36	111 = 661.00		ADS Flared End Section			
111	664.65		111 = 661.65	18IN-ADS Nyloplast Str.			
200	667.38	201 = 664.25		Conc. Flared End Section			
201	672.00	202 = 664.72 201A = 664.72	201 = 664.62	8'ø MANHOLE NEENAH R-1772			
201A	673.66	202A = 664.89	201A = 664.79	WATER QUALITY AQUA-SWIRL XC-7			
202	673.34	203 = 664.96 204B = 669.75	202A = 664.96 202 = 664.86	8'Ø MANHOLE DIVERSION WEIR SEE DETAILS			
203	675.16	204 = 665.77	203 = 665.67	6'ø MANHOLE NEENAH R-4342			
204	673.60	205 = 666.99 204A = 672.00	204 = 666.89	6'ø MANHOLE NEENAH R-4342			
204A	677.84		204A = 672.35	Inlet Type A NEENAH R-4342			
204B	677.22	204C = 672.94	204B = 672.94	CLEANOUT			
204C	673.94		204C = 673.00	ROOF DRAIN			
205	674.11	206 = 667.54	205 = 667.44	5'ø MANHOLE NEENAH R-4342			
206	673.25	207 = 668.50 206A = 669.00	206 = 668.40	5'ø MANHOLE NEENAH R-4342			
206A	674.31	206B = 672.65	206A = 672.18	NYLOPLAST STR. FLAT GRATE			
206B	674.68	206C = 672.94	206B = 672.94	CLEANOUT			
206C	673.75		206C = 673.00	ROOF DRAIN			
207	674.96	208 = 669.38 207B = 671.69	207 = 669.28	5'ø MANHOLE NEENAH R-4342			
207B	674.65	207C = 672.94	207B = 672.94	CLEANOUT			
207C	673.75		207C = 673.00	ROOF DRAIN			
208	675.23	220 = 670.55 209 = 672.42 208A = 670.82	208 = 670.45	6'ø MANHOLE NEENAH R-3287-10V (CURB INLET)			
208A	676.50	208B = 672.60 208D = 672.55	208A = 672.01	24" NYLOPLAST INLET FLAT GRATE			
208B	674.68	208C = 672.97	208B = 672.97	CLEANOUT			
208C	673.75		208C = 673.00	ROOF DRAIN			

			Struct	ure Table	
	Structure Name	RIM E.	INVERT IN	INVERT OUT	REMARKS
	208D	674.68	208E = 672.97	208D = 672.97	CLEANOUT
	208E	673.75		208E = 673.00	ROOF DRAIN
	209	676.30	209B = 673.04 230 = 672.80	209 = 672.70	4'ø MANHOLE NEENAH R-3287-10V (CURB INLET)
	209A	676.43		209A = 673.50	Inlet Type J NEENAH R-3287-10V (CURB INLET)
	209B	675.39	209A = 673.23	209B = 673.13	4' ø MANHOLE NEENAH R-4342
	210	678.59		210 = 675.59	4'ø MANHOLE NEENAH R-3287-10V (CURB INLET)
	211	681.00	212 = 676.37 210 = 675.43	211 = 675.25	4'ø MANHOLE NEENAH R-4342
	212	679.45		212 = 676.48	Inlet Type J NEENAH R-3472
<u></u>	220	674.73	221 = 670.99	220 = 670.89	Inlet Type J NEENAH R-3287-10V (CURB INLET)
	221	674.67	222 = 671.42	221 = 671.32	151N-ADS Nyloplast St
	222	674.67		222 = 671.67	15IN-ADS Nyloplast St
	230	676.94	231 = 673.37 211 = 675.00	230 = 673.20	24IN-ADS Nyloplast St
	231	677.88	231A = 673.65 232 = 674.50	231 = 673.50	4'ø MANHOLE NEENAH R-3287-10V (CURB INLET)
	231A	676.93		231A = 673.90	18IN-ADS NYLOPLAST ST
	232	678.98	233 = 675.00	232 = 674.76	15IN-ADS Nyloplast St
	233	680.72	234 = 675.35	233 = 675.25	Inlet Type A NEENAH R-3472
	234	681.51		234 = 675.49	Inlet Type A NEENAH R-4342
	300	666.52	301 = 665.00		Conc. Flared End Section
	302	675.21	303 = 667.97	301 = 667.70	4'ø MANHOLE NEENAH R—1772
	303	678.86		303 = 673.05	Inlet Type B NEENAH R-3457-C2
	400	666.96	401 = 665.00		Conc. Flared End Section
	401	671.80	401A = 665.25 402 = 665.25	401 = 665.25	8'ø MANHOLE NEENAH R-1772
	401A	672.10	402A = 665.44	401A = 665.34	WATER QUALITY AQUA-SWIRL XC-7
	402	673.05	403 = 665.62	402A = 665.53 402 = 665.52	8'Ø MANHOLE DIVERSION WEIR SEE DETAIL
	403	673.24	403A = 670.48 404 = 666.77 420 = 665.77	403 = 665.67	8'ø MANHOLE NEENAH R-3287-10V (CURB INLET)

Structure Name	RIM E.	INVERT IN	INVERT OUT	REMARKS
403A	674.00		403A = 670.85	4'ø MANHOLE NEENAH R-4342
404	675.85	405 = 667.31 425 = 670.96 404A = 669.95	404 = 667.21	8'ø MANHOLE NEENAH R-3287-10V (CURB INLET)
404A	676.00	404B = 672.69 287 = 672.59	404A = 670.11	4'ø MANHOLE NEENAH R-3210-Q
404B	677.40	404C = 672.97	404B = 672.97	CLEANOUT
404C	673.75		404C = 673.00	ROOF DRAIN
404D	677.67		287 = 672.29	NYLOPLAST INLET PEDESTRIAN GRATE
405	676.46	405A = 672.85 406 = 667.61	405 = 667.51	6'ø MANHOLE NEENAH R-3287-10V (Curb Inlet)
405A	674.67		405A = 673.00	Inlet Type J NEENAH R-3287-10V (CURB INLET)
406	676.66	407 = 672.80 406A = 673.13 430 = 668.26	406 = 668.16	6'ø MANHOLE NEENAH R–3287–10V (Curb Inlet)
406A	676.58		406A = 673.50	Inlet Type J NEENAH R-3287-10V (CURB INLET)
407	676.30	408 = 673.01	407 = 672.91	CURB INLET
408	677.21	409 = 673.44 450 = 673.44	408 = 673.34	4'ø MANHOLE NEENAH R-3287-10V (CURB INLET)
409	678.58		409 = 673.61	4'ø MANHOLE NEENAH R-3287-10V (CURB INLET)
410	681.79	410A = 676.48	410 = 676.38	4'ø MANHOLE NEENAH R-3472
410A	682.16		410A = 676.58	Inlet Type A NEENAH R-4342
420	669.17		420 = 666.00	Inlet Type J NEENAH R-3287-10V (CURB INLET)
425	676.64	426 = 672.00 425A = 672.46	425 = 671.50	Inlet Type J NEENAH R–3287–10V (CURB INLET)
425A	677.95	425B = 672.97	425A = 672.97	CLEANOUT
425B	673.75		425B = 673.00	ROOF DRAIN
426	677.57	426A = 672.53 426D = 672.54	426 = 672.32	NYLOPLAST INLET
426A	677.94	426B = 672.97	426A = 672.97	CLEANOUT
426B	673.57		426B = 673.00	ROOF DRAIN
426C	673.75		426C = 673.00	ROOF DRAIN
426D	674.68	426C = 672.97	426D = 672.97	CLEANOUT
430	678.65	431 = 675.32 440 = 668.65	430 = 668.55	4'ø MANHOLE NEENAH R-3287-10V (CURB INLET)

					2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE INSTALLATION, INSPECTION, TESTING AND FIN ACCEPTANCE OF ALL NEW STORMWATER MANAGEMENT FACILITIES CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH ALL APPLICABLE REGULATING AGENCIES CONCERNING INSTALLATION, INSPECTION AND APPROVAL OF THE STORM DRAINAGE SYSTEM CONSTRUCTION.
		Structure			3. ALL STORMWATER MANAGEMENT FACILITIES, INCLUDING COLLECTION AND CONVEYANCE STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES AND
е	RIM E.	INVERT IN	INVERT OUT	REMARKS	REGULATIONS.
	674.00		403A = 670.85	4'ø MANHOLE NEENAH R-4342	4. ANY WORK PERFORMED IN THE LOCAL OR STATE RIGHT OF WAYS SHALL BE IN ACCORDANCE WITH THE APPLICABLE LOCAL OR STATE
	675.85	405 = 667.31 425 = 670.96 404A = 669.95	404 = 667.21	8'ø MANHOLE NEENAH R-3287-10V (CURB INLET)	REQUIREMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY PERMITS FOR THE WORK, SCHEDULE NECESSARY INSPECTIONS, AND PROVIDE THE NECESSARY TRAFFIC CONTROL MEASURES AND DEVICES, ETC., FOR WORK PERFORMED
	676.00	404B = 672.69 287 = 672.59	404A = 670.11	4'ø MANHOLE NEENAH R-3210-Q	THE RIGHT OF WAYS.
	677.40	404C = 672.97	404B = 672.97	CLEANOUT	5. STORM PIPE MATERIAL SHALL BE RCP OR HDPE DUAL WALL UNLE
	673.75		404C = 673.00	ROOF DRAIN	NOTED OTHERWISE ON PLANS.
	677.67		287 = 672.29	NYLOPLAST INLET PEDESTRIAN GRATE	
	676.46	405A = 672.85 406 = 667.61	405 = 667.51	6'ø MANHOLE NEENAH R-3287-10V (Curb Inlet)	
	674.67		405A = 673.00	Inlet Type J NEENAH R-3287-10V (CURB INLET)	
	676.66	407 = 672.80 406A = 673.13 430 = 668.26	406 = 668.16	6'ø MANHOLE NEENAH R-3287-10V (Curb Inlet)	
_	676 59		4064 - 673.50	Inlet Type J	

GENERAL DRAINAGE NOTES:

OTHERWISE NOTED.

DISTANCES SHOWN ON PIPING ARE HORIZONTAL DISTANCES FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE, UNLESS



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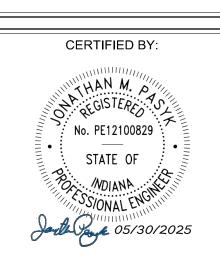
SCOPE DRAWINGS:

REVISIONS:

ISSUE DATE | DRAWN BY | CHECKED BY 05/30/25 BEB JMP

DRAWING TITLE:

STORMWATER STRUCTURE



DRAWING NUMBER

C401

PROJECT NUMBER 2024022



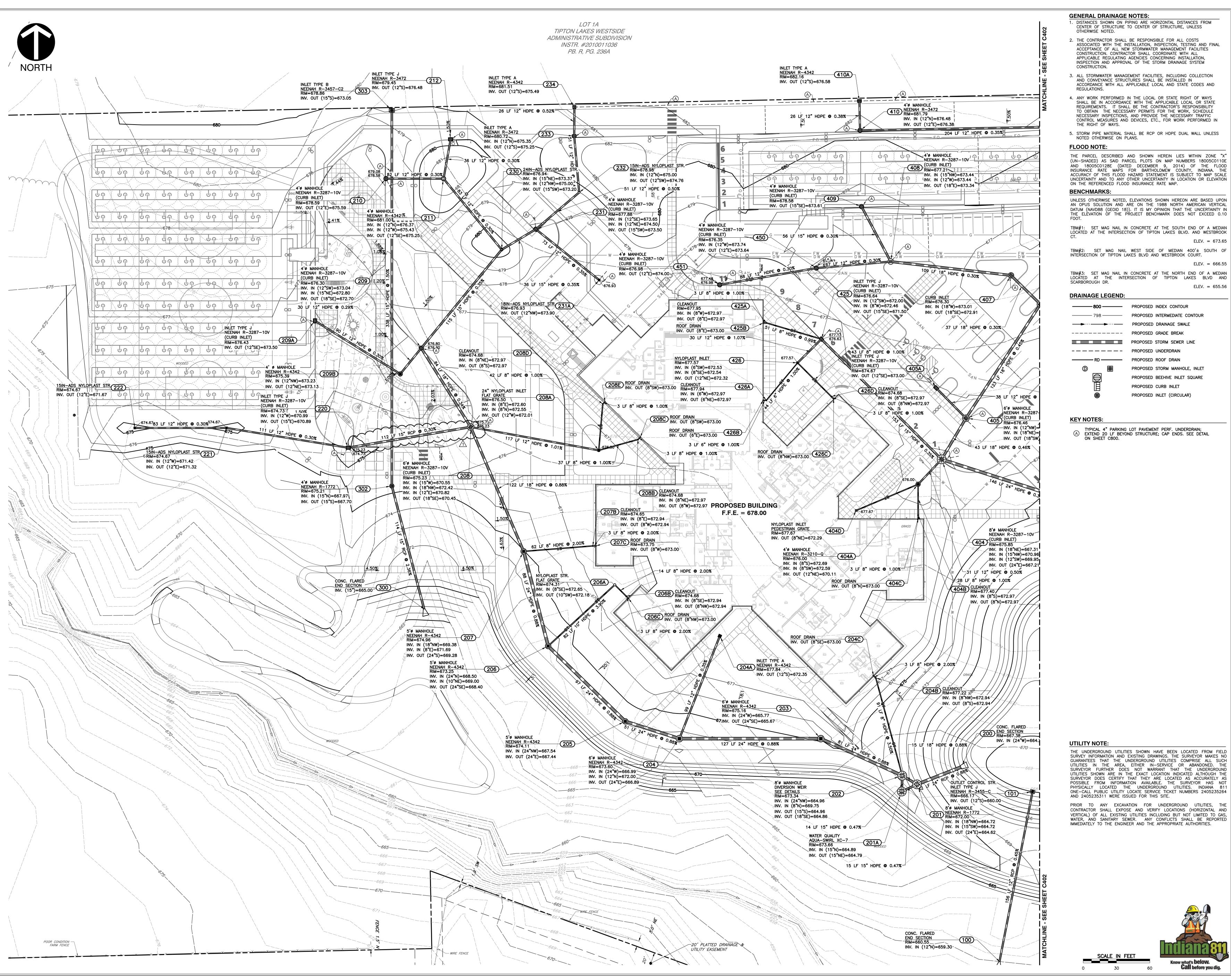


		Struct	ure Table	
ture Name	RIM E.	INVERT IN	INVERT OUT	REMARKS
431	681.44	432 = 678.35 410 = 675.66	431 = 675.56	4'ø MANHOLE NEENAH R-3472
432	681.53		432 = 678.44	Inlet Type A NEENAH R-4342
440	673.76	441 = 671.85 440A = 670.00	440 = 669.02	4'ø MANHOLE NEENAH R-3287-10V (CURB INLET)
440A	674.05		440A = 670.17	15IN—ADS Nyloplast Str.
441	675.37		441 = 672.00	15IN-ADS NYLOPLAST STR.
450	676.35	451 = 673.74	450 = 673.64	4'ø MANHOLE NEENAH R-3287-10V (CURB INLET)
451	676.98		451 = 674.00	4'ø MANHOLE NEENAH R-3287-10V (CURB INLET)

Pipe Table								
Pipe Name	Size (in)	Length (ft)	Slope	MATERIAL				
101	12	155.8	0.45%	RCP				
111	15	94.9	0.68%	HDPE				
201A	15	15.2	0.47%	HDPE				
201	24	42.3	0.88%	RCP				
202	18	15.4	0.88%	HDPE				
202A	15	14.3	0.47%	HDPE				
203	24	80.6	0.88%	HDPE				
204B	8	91.2	3.50%	HDPE				
204C	8	3.0	2.00%	HDPE				
204A	12	99.3	0.35%	HDPE				
204	24	127.3	0.88%	HDPE				
205	24	51.1	0.88%	HDPE				
206B	8	14.4	2.00%	HDPE				
206C	8	3.0	2.00%	HDPE				
206A	10	81.5	3.90%	HDPE				
206	24	97.1	0.88%	HDPE				
207B	8	62.4	2.00%	HDPE				
207C	8	3.0	2.00%	HDPE				
207	24	88.1	0.88%	HDPE				
208D	8	41.9	1.00%	HDPE				
208E	8	2.8	1.00%	HDPE				
208B	8	36.7	1.00%	HDPE				
208C	8	3.0	1.00%	HDPE				
208A	08A 12 117.3		1.01%	HDPE				
208	18	121.7	0.88%	HDPE				

Pipe Table							
Pipe Name	Size (in)	Length (ft)	Slope	MATERIAL			
440	15	123.7	0.30%	HDPE			
441	12	39.9	0.36%	HDPE			
450	12	67.2	0.30%	HDPE			
451	12	88.3	0.30%	HDPE			

		Pipe Table			Pipe Table				
Pipe Name	Size (in)	Length (ft)	Slope	MATERIAL	Pipe Name	Size (in)	Length (ft)	Slope	MATERIA
209A	12	90.5	0.30%	HDPE	404C	8	3.0	1.00%	HDPE
209B	12	29.9	0.29%	HDPE	404A	12	30.8	0.50%	HDPE
209	18	83.8	0.34%	HDPE	404	24	146.0	0.30%	HDPE
210	12	51.9	0.30%	HDPE	405A	12	38.2	0.40%	HDPE
211	12	82.6	0.30%	HDPE	405	18	43.0	0.46%	HDPE
212 /1	12	36.0	0.30%	HDPE	406	18	122.6	0.45%	HDPE
220	15	111.8	0.30%	RCP	406A	12	108.9	0.34%	HDPE
221	$\overline{}$	111.1	0.30%	HDPE	407	18	37.1	0.30%	HDPE
222	12	82.5	0.30%	HDPE	408	18	109.1	0.30%	HDPE
230	15	114.5	0.35%	HDPE	409	15	56.0	0.30%	HDPE
231	15	35.8	0.35%	HDPE	410A	12	26.5	0.38%	HDPE
231A	12	73.1	0.35%	HDPE	410	12	204.4	0.35%	HDPE
232	12	51.2	0.50%	HDPE	420	12	75.7	0.30%	HDPE
233	12	50.9	0.49%	HDPE	425A	8	51.4	0.99%	HDPE
234	12	26.2	0.52%	HDPE	425B	8	3.0	1.00%	HDPE
287	8	60.5	-0.50%	HDPE	425	15	153.1	0.35%	HDPE
301	15	114.5	2.36%	RCP	426D	8	42.9	1.00%	HDPE
303	15	338.4	1.50%	HDPE	426C	8	3.0	1.00%	HDPE
401A	15	19.5	0.46%	HDPE	426A	6	44.0	1.00%	HDPE
401	24	49.6	0.50%	RCP	426B	6	3.0	1.00%	HDPE
402	18	21.3	1.27%	HDPE	426	12	30.3	1.07%	HDPE
402A	15	21.0	0.43%	HDPE	430	18	101.6	0.29%	HDPE
403A	12	74.6	0.50%	HDPE	431	12	68.3	0.35%	HDPE
403	24	14.6	0.34%	HDPE	432	12	26.8	0.35%	HDPE
404B	8	27.8	1.00%	HDPE	440A	12	55.8	0.31%	HDPE



GENERAL DRAINAGE NOTES:

. DISTANCES SHOWN ON PIPING ARE HORIZONTAL DISTANCES FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE, UNLESS

> . THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE INSTALLATION, INSPECTION, TESTING AND FINAL ACCEPTANCE OF ALL NEW STORMWATER MANAGEMENT FACILITIES CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH ALL APPLICABLE REGULATING AGENCIES CONCERNING INSTALLATION. INSPECTION AND APPROVAL OF THE STORM DRAINAGE SYSTEM

3. ALL STORMWATER MANAGEMENT FACILITIES, INCLUDING COLLECTION

4. ANY WORK PERFORMED IN THE LOCAL OR STATE RIGHT OF WAYS SHALL BE IN ACCORDANCE WITH THE APPLICABLE LOCAL OR STATE REQUIREMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY PERMITS FOR THE WORK, SCHEDULE NECESSARY INSPECTIONS, AND PROVIDE THE NECESSARY TRAFFIC CONTROL MEASURES AND DEVICES, ETC., FOR WORK PERFORMED IN

5. STORM PIPE MATERIAL SHALL BE RCP OR HDPE DUAL WALL UNLESS NOTED OTHERWISE ON PLANS.

THE PARCEL DESCRIBED AND SHOWN HEREIN LIES WITHIN ZONE "X (UN-SHADED) AS SAID PARCEL PLOTS ON MAP NUMBERS 18005C0110E AND 18005C0128E (DATED DECEMBER 9, 2014) OF THE FLOOD INSURANCE RATE MAPS FOR 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.

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 ELÈVATION OF THE PROJECT BENCHMARK DOES NOT EXCEED 0.10

TBM#1: SET MAG NAIL IN CONCRETE AT THE SOUTH END OF A MEDIAN LOCÄTED AT THE INTERSECTION OF TIPTON LAKES BLVD. AND WESTBROOK ELEV. = 673.65TBM#2: SET MAG NAIL WEST SIDE OF MEDIAN 400'± SOUTH OF

INTERSECTION OF TIPTON LAKES BLVD AND WESTBROOK COURT. TBM#3: SET MAG NAIL IN CONCRETE AT THE NORTH END OF A MEDIAN

LOCATED AT THE INTERSECTION OF TIPTON LAKES BLVD AND SCARBOROUGH DR.

PROPOSED INDEX CONTOUR ------ 798 ------ PROPOSED INTERMEDIATE CONTOUR PROPOSED DRAINAGE SWALE ---- PROPOSED GRADE BREAK PROPOSED STORM SEWER LINE - - - PROPOSED UNDERDRAIN

> PROPOSED STORM MANHOLE, INLET PROPOSED BEEHIVE INLET SQUARE

PROPOSED CURB INLET PROPOSED INLET (CIRCULAR)

KEY NOTES:

TYPICAL 4" PARKING LOT PAVEMENT PERF. UNDERDRAIN; A EXTEND 20 LF BEYOND STRUCTURE; CAP ENDS. SEE DETAIL ON SHEET C800. WBCSC TOGETHER WE LEARN

ය CSO

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CONSOLIDAT ORPORATION EMENTARY SC

SCOPE DRAWINGS:

REVISIONS: │ ∕1∖ 06/10/2025 - ADDENDUM #01

ISSUE DATE | DRAWN BY | CHECKED BY 05/30/25 BEB

DRAWING TITLE:

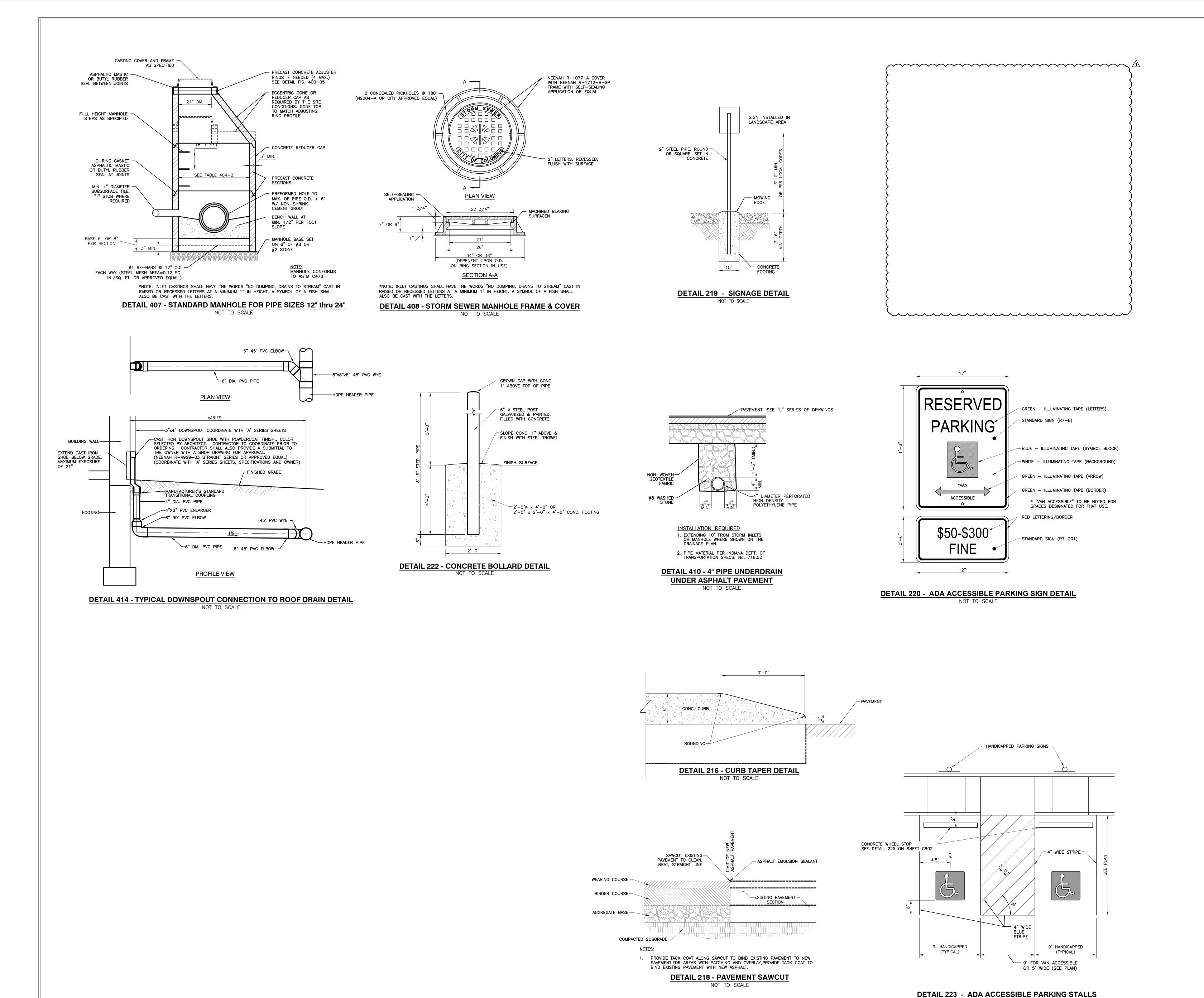
STORMWATER

CERTIFIED BY: M MAHZ ZA REGISTERES TO No. PE12100829 STATE OF SSIONAL ENG! Jale Cope 05/30/2025

DRAWING NUMBER

PROJECT NUMBER 2024022

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BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION MAPLE GROVE ELEMENTARY SCHOOL

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:

06/10/2025 - ADDENDUM #01

ISSUE DATE DRAWN BY CHECKED BY 05/30/25 BEB JMP

DRAWING TITLE:

SITE DETAILS

CERTIFIED BY:

No. PE12100829

STATE OF

MDIANA

SONNAL ENGINEE

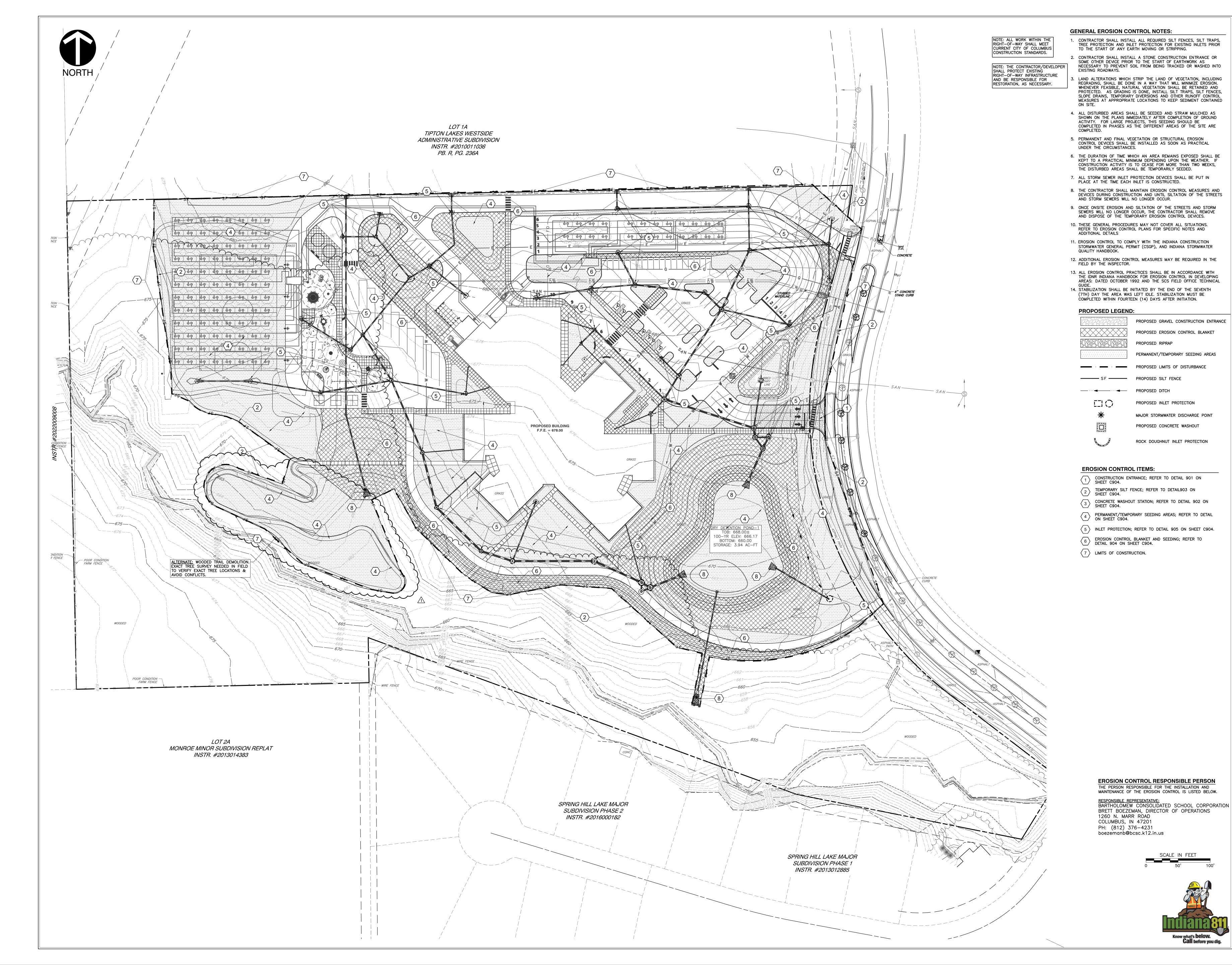
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SCOPE DRAWINGS:

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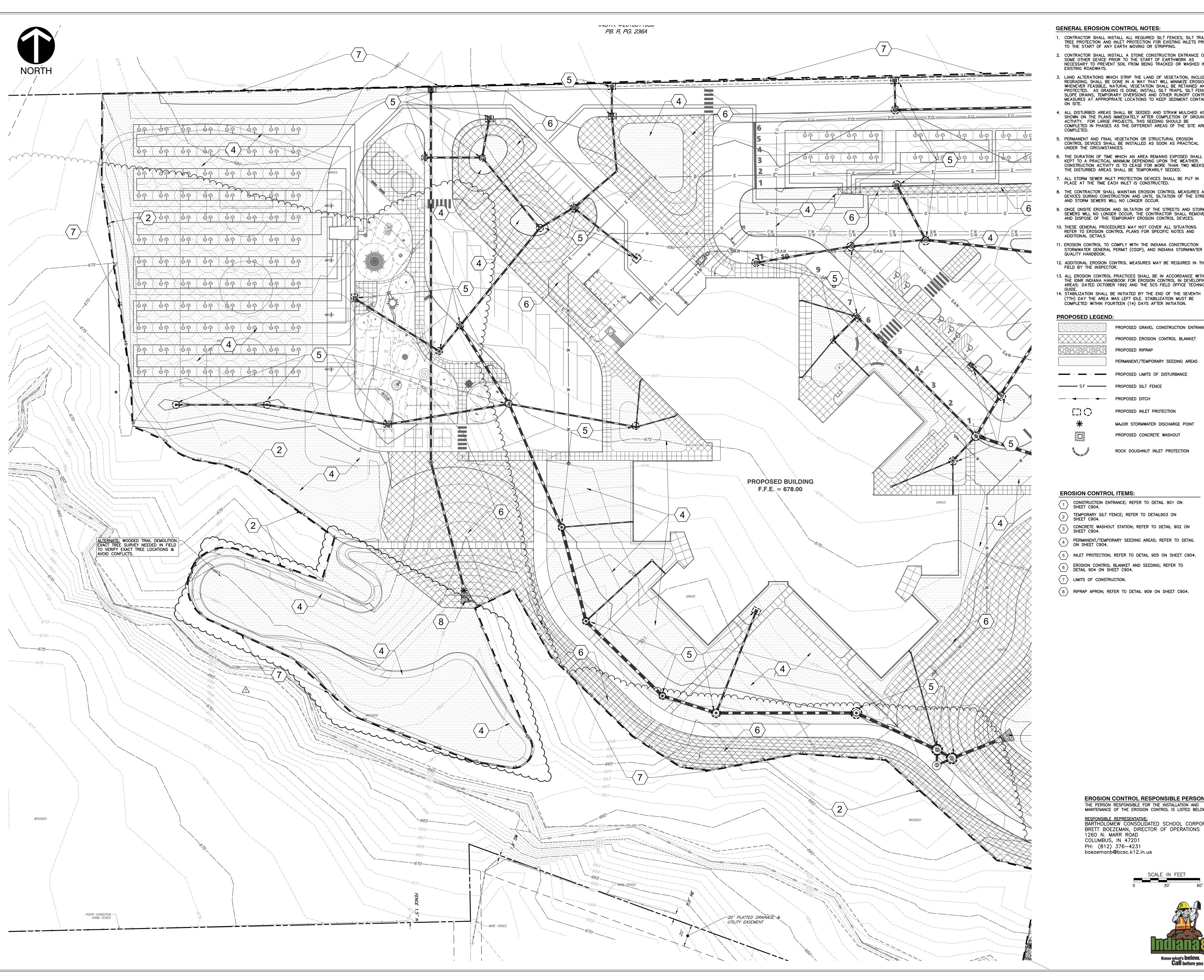
05/30/25 BEB DRAWING TITLE:

STORMWATER **POLLUTION** PREVENTION PLAN - OVERALL

> CERTIFIED BY: HAN M. PAREGISTERED STERED No. PE12100829 STATE OF MDIANA SECTION OF THE Jedi Cos 05/30/2025

DRAWING NUMBER

PROJECT NUMBER 2024022





- 1. CONTRACTOR SHALL INSTALL ALL REQUIRED SILT FENCES, SILT TRAPS, TREE PROTECTION AND INLET PROTECTION FOR EXISTING INLETS PRIOR TO THE START OF ANY EARTH MOVING OR STRIPPING.
- 2. CONTRACTOR SHALL INSTALL A STONE CONSTRUCTION ENTRANCE OR SOME OTHER DEVICE PRIOR TO THE START OF EARTHWORK AS NECESSARY TO PREVENT SOIL FROM BEING TRACKED OR WASHED INTO
- LAND ALTERATIONS WHICH STRIP THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED. AS GRADING IS DONE, INSTALL SILT TRAPS, SILT FENCES, SLOPE DRAINS, TEMPORARY DIVERSIONS AND OTHER RUNOFF CONTROL MEASURES AT APPROPRIATE LOCATIONS TO KEEP SEDIMENT CONTAINED
- 4. ALL DISTURBED AREAS SHALL BE SEEDED AND STRAW MULCHED AS SHOWN ON THE PLANS IMMEDIATELY AFTER COMPLETION OF GROUND ACTIVITY. FOR LARGE PROJECTS, THIS SEEDING SHOULD BE COMPLETED IN PHASES AS THE DIFFERENT AREAS OF THE SITE ARE
- PERMANENT AND FINAL VEGETATION OR STRUCTURAL EROSION
- CONTROL DEVICES SHALL BE INSTALLED AS SOON AS PRACTICAL UNDER THE CIRCUMSTANCES.
- 6. THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM DEPENDING UPON THE WEATHER. IF CONSTRUCTION ACTIVITY IS TO CEASE FOR MORE THAN TWO WEEKS, THE DISTURBED AREAS SHALL BE TEMPORARILY SEEDED.
- 7. ALL STORM SEWER INLET PROTECTION DEVICES SHALL BE PUT IN PLACE AT THE TIME EACH INLET IS CONSTRUCTED.
- 8. THE CONTRACTOR SHALL MAINTAIN EROSION CONTROL MEASURES AND DEVICES DURING CONSTRUCTION AND UNTIL SILTATION OF THE STREETS AND STORM SEWERS WILL NO LONGER OCCUR.
- 9. ONCE ONSITE EROSION AND SILTATION OF THE STREETS AND STORM SEWERS WILL NO LONGER OCCUR, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE TEMPORARY EROSION CONTROL DEVICES.
- 10. THESE GENERAL PROCEDURES MAY NOT COVER ALL SITUATIONS. REFER TO EROSION CONTROL PLANS FOR SPECIFIC NOTES AND
- QUALITY HANDBOOK. 12. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED IN THE
- 13. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE IDNR INDIANA HANDBOOK FOR EROSION CONTROL IN DEVELOPING AREAS: DATED OCTOBER 1992 AND THE SCS FIELD OFFICE TECHNICAL
- 14. STABILIZATION SHALL BE INITIATED BY THE END OF THE SEVENTH (7TH) DAY THE AREA WAS LEFT IDLE. STABILIZATION MUST BE
- COMPLETED WITHIN FOURTEEN (14) DAYS AFTER INITIATION.

PROPOSED LEGEND:						
	PROPOSED GRAVEL CONSTRUCTION ENTRANCE					
	PROPOSED EROSION CONTROL BLANKET					
	PROPOSED RIPRAP					
	PERMANENT/TEMPORARY SEEDING AREAS					
	PROPOSED LIMITS OF DISTURBANCE					
—— SF ——	PROPOSED SILT FENCE					

— ··· ◀ PROPOSED DITCH PROPOSED INLET PROTECTION

ROCK DOUGHNUT INLET PROTECTION

MAJOR STORMWATER DISCHARGE POINT PROPOSED CONCRETE WASHOUT

- CONSTRUCTION ENTRANCE; REFER TO DETAIL 901 ON SHEET C904.
- TEMPORARY SILT FENCE; REFER TO DETAIL903 ON SHEET C904.
- CONCRETE WASHOUT STATION; REFER TO DETAIL 902 ON SHEET C904.
- PERMANENT/TEMPORARY SEEDING AREAS; REFER TO DETAIL ON SHEET C904.
- $\left\langle 5\right\rangle$ INLET PROTECTION; REFER TO DETAIL 905 ON SHEET C904. 6 EROSION CONTROL BLANKET AND SEEDING; REFER TO DETAIL 904 ON SHEET C904.

EROSION CONTROL RESPONSIBLE PERSON THE PERSON RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE EROSION CONTROL IS LISTED BELOW.

BRETT BOEZEMAN, DIRECTOR OF OPERATIONS 1260 N. MARR ROAD

BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION

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RESPONSIBLE REPRESENTATIVE:

COLUMBUS, IN 47201

PH: (812) 376-4231

boezemanb@bcsc.k12.in.us

- 7 LIMITS OF CONSTRUCTION.
- 8 RIPRAP APRON; REFER TO DETAIL 909 ON SHEET C904.

05/30/25 BEB

DRAWING TITLE:

SSUE DATE | DRAWN BY | CHECKED BY

STORMWATER **POLLUTION PREVENTION** PLAN - WEST

CERTIFIED BY: HAN M. DI A REGISTERED TO No. PE12100829 STATE OF Jall Congre 05/30/2025

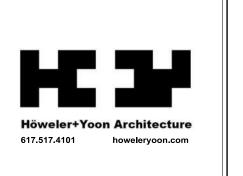
DRAWING NUMBER

PROJECT NUMBER 2024022

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REVISIONS: 06/10/2025 - ADDENDUM #01

THE PROPOSED EROSION CONTROL MEASURES CAN BE FOUND ON SHEET C900. THE REQUIRED EROSION CONTROL CHECKLIST ITEMS ARE LISTED ON THIS SHEET.

(A2) VICINITY MAP THE VICINITY MAP SHOWING THE PROJECT LOCATION CAN BE SEEN ON THE COVER SHEET.

(A3) PROJECT DESCRIPTION THIS PROJECT CONSISTS OF A NEW ELEMENTARY SCHOOL AND ASSOCIATED SITE

IMPROVEMENTS. LOCATED WEST OF TIPTON LAKE BOULEVARD AND SOUTH OF, HARRISON TOWNSHIP, BARTHOLOMEW COUNTY, INDIANA.

ESTIMATED START DATE: JULY 2025 ESTIMATED COMPLETION DATE: DEC. 31, 2026 (A4) SITE LATITUDE AND LONGITUDE

LONGITUDE: 85° 59' 59.7" W LATITUDE: 39° 11' 34.6" N (A5) LEGAL DESCRIPTION

TOWNSHIP: 9 N RANGE: 5 E SECTION 29

A LEGAL DESCRIPTION IS SHOWN ON THE ALTA/NSPS LAND TITLE SURVEY BOUNDARY RETRACEMENT SURVEY (SHEET SV-2) INCLUDED WITH THIS PLAN SET.

(A6) PLAN/PLAT SHOWING BOUNDARIES AND LOT NAMES

PLEASE REFER TO SHEET CO1 INCLUDED WITH THE SUBMITTAL. (A7) 100 YEAR FLOODPLAIN, FLOODWAYS AND FRINGES THE PROJECT DOES NOT LIE WITHIN A 100 YEAR FLOODPLAIN AND / OR THE FLOODWAY AREA.

(A8) ADJACENT LANDUSE THE EXISTING LAND USES ADJACENT TO THE SITE ARE AS FOLLOWS:

NORTH: RS2 - RESIDENTIAL AG – AGRICULTURE SOUTH: RS3 - RESIDENTIAL

(A9) HYDROLOGIC UNIT CODE & U.S. EPA TDMI

05120206020020. THE SITE DRAINS TO THE DENIOS CREEK WATERSHED. (A10) RECEIVING WATERS

DISCHARGES INTO PROPOSED STORM SEWER SYSTEM THEN INTO DENIOS CREEK THAT EXISTS ON THE SOUTHWEST SIDE OF THE PROPERTY. AND THEN OFF SITE...

(A11) IDENTIFICATION OF IMPAIRED WATERS & POLLUTANTS ON 303(d) LIST

THE SITE DOES NOT DISCHARGE INTO ANY WATERS ON THE 303(d) LIST. (A12) SOIL MAP



PLEASE REFER TO THE DRAINAGE REPORT AND GEOTECHNICAL REPORT BY ALT & WITZIG ENGINEERING, INC. (A&W PROJECT NO: 17IN0193) DATED APRIL 28, 2017 FOR THE SOIL DESCRIPTIONS AND LIMITATIONS (A13) SITE WETLANDS, LAKES AND WATER COURSES THERE ARE NO EXISTING WETLAND AREAS ON SITE, (A14) REQUIRED STATE OR FEDERAL WATER QUALITY PERMITS

AN IDEM CONSTRUCTION STORMWATER GENERAL PERMIT (CSGP) NOTICE OF INTENT (NOI) PERMIT WILL BE REQUIRED FOR THIS PROJECT.

(A15) EXISTING VEGETATIVE COVER

THE EXISTING SITE IS MAINLY COVERED BY STRAIGHT ROW CASH CROPS WITH APPROXIMATELY 4.00 ACRES OF GRASSED AREA.

(A16) EXISITNG SITE TOPOGRAPHY

REFER TO EXISTING TOPOGRAPHY SHEET C101

(A17 & A18) LOCATION OF SITE RUN-OFF REFER TO FLOOD ROUTING AND DRAINAGE PLANS ON SHEETS C305 AND C400 TO C403 FOR PROPOSED SITE RUNOFF. REFER TO SHEET C100 FOR EXISTING SITE RUN-OFF. (A19 & A20) EXISITNG SITE STRUCTURES AND DRAINAGE FACILITIES

REFER TO EXISTING CONDITIONS SHEET C100.

(A21) POTENTIAL DISCHARGES TO GROUNDWATER THERE ARE NO SINKHOLES OR UNCAPPED ABANDONED WELLS LOCATED ON THE PROJECT SITE OR DOWNSTREAM OF THE PROJECT SITE. (A22 & A23) SITE ACREAGE & DISTURBANCE AREA

THE OVERALL SITE ACREAGE AND DISTURBED AREA IS APPROXIMATELY ±23.03 ACRES. REFER TO SHEET C900. (A24) PROPOSED FINAL TOPOGRAPHY REFER TO THE GRADING PLAN SHEETS C300 TO C305 FOR THE FINAL TOPOGRAPHY.

(A25) DISTURBANCE BOUNDARY REFER TO THE STORMWATER POLLUTION PREVENTION PLAN SHEETS C900 TO C905. (A26 & A27) DRAINAGE INFRASTRUCTURE LOCATION

REFER TO THE DRAINAGE PLAN SHEET C400 TO C405 FOR THE LOCATION, SIZE, AND DIMENSIONS OF THE STORM SEWER INFRASTRUCTURE. REFER ALSO TO SHEET

C900 FOR THE OUTLET/DISCHARGE LOCATIONS. (A28) SITE IMPROVEMENTS PLAN

REFER TO THE SITE PLAN SHEETS C200 TO C205.

(A29) SOIL STOCKPILE, BORROW AND/OR DISPOSAL NO PERMANENT SOIL STOCKPILES ARE PLANNED FOR THIS DEVELOPMENT. IF TEMPORARY STOCKPILE OR BORROW AREAS ARE UTILIZED DURING CONSTRUCTION THAN THE PERIMETER OF THE STOCKPILE AREA SHALL BE ENCOMPASSED WITH SILT FENCE. (A30 & A31) CONSTRUCTION SUPPORT & IN-STREAM ACTIVITES CONSTRUCTION SUPPORT OR IN-STREAM CONSTRUCTION ACTIVITIES WOULD BE PLANNED FOR THIS PROJECT'S SOUTH EXISTING CHANNEL IF NEEDED.

ASSESSMENT OF STORMWATER POLLUTION PREVENTION PLAN CONSTRUCTION

(B1) POTENTIAL CONSTRUCTION POLLUTANTS

COMPONENT (SECTION B)

POTENTIAL POLLUTANTS SOURCES RELATIVE TO A CONSTRUCTION SITE MAY INCLUDE. BUT ARE NOT LIMITED TO MATERIAL AND FUEL STORAGE AREAS, FUELING LOCATIONS, EXPOSED SOILS AND LEAKING VEHICLE/EQUIPMENT. POTENTIAL POLLUTANTS THAT MAY APPEAR AT THE SITE DUE TO CONSTRUCTION ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO DIESEL FUEL, GASOLINE, CONCRETE AND CONCRETE WASHOUT, SOLID WASTE, SEDIMENT, PAINT AND SOLVENTS, EQUIPMENT REPAIR PRODUCTS, ANTI-FREEZE AND FERTILIZER.

(B2) CONSTRUCTION ENTRANCE INFORMATION

THE LOCATION OF THE CONSTRUCTION ENTRANCES ARE ON SHEETS C900, C901, AND C905. (B3) TEMPORARY & PERMANENT SURFACE STABILIZATION TEMPORARY SEEDING AND EROSION CONTROL MATTING WILL BE USED AS TEMPORARY SURFACE STABILIZATION MEASURES. DUE TO THE ACCELERATED CONSTRUCTION TIMELINE OF THIS PROJECT, TEMPORARY SEEDING SHOULD NOT BE NECESSARY. REFER TO SHEETS C900 TO C905 FOR SEEDING AREAS. CONTRACTOR TO SEED ALL DISTURBED AREAS. REFER TO SEEDING TABLES ON SHEET 18 OF THE LEBANON STANDARDS.

PERMANENT SEEDING WILL BE USED AS PERMANENT SURFACE STABILIZATION MEASURE. REFER TO SHEET C900 TO C905 FOR SEEDING AREAS. CONTRACTOR TO SEED ALL DISTURBED AREAS. REFER TO SEEDING TABLES ON SHEETS 18 OF THE LEBANON STANDARDS

SELECT APPROPRIATE SEED MIXTURE AND APPLICATION RATE FROM TABLE ON SHEET 18 OF THE LEBANON STANDARDS. APPLY SEED UNIFORMLY. INSPECT 24 HOURS AFTER EACH RAIN EVENT AND OR AT LEAST ONCE EVERY SEVEN

3. USE PHOSPHOROUS FREE FERTILIZER (12-0-12) UNLESS SOIL TESTING SHOWS A NEED. (B4) CONCENTRATED FLOW SEDIMENT CONTROL

EROSION CONTROL BLANKET, RIP RAP APRONS AND ROCK CHECK DAMS WILL BE USED AS

SPECIFICATIONS FOR EACH STATED CONCENTRATED FLOW MEASURE IS ON SHEETS C900 TO

EROSION CONTROL MEASURES FOR CONCENTRATED FLOWS. THE LOCATION, DETAILS, AND

C906, AS WELL AS SHEETS 16-18 OF THE LEBANON STANDARDS. (B5) SHEET FLOW SEDIMENT CONTROL

SILT FENCE, TEMPORARY SEEDING AND EROSION CONTROL INLET PROTECTION WILL BE USED AS EROSION CONTROL MEASURES FOR SHEET FLOWS. THE LOCATION, DETAILS, AND SPECIFICATIONS FOR EACH STATED SEDIMENT CONTROL MEASURE IS ON SHEETS C900 TO C906 AS WELL AS SHEETS 16-18 OF THE LEBANON STANDARDS. (B6) RUNOFF CONTROL MEASURES

SILT FENCE, TEMPORARY SEEDING AND EROSION CONTROL INLET PROTECTION WILL BE USED TO CONTROL RUN OFF. THE LOCATION, DETAILS, AND SPECIFICATIONS FOR EACH STATED SEDIMENT CONTROL MEASURE IS ON SHEETS C900 TO C906, AS WELL AS SHEETS 16-18 OF THE LEBANON

IF THE PONDS ARE USED AS SEDIMENT BASINS DURING CONSTRUCTION, THE CONTRACTOR SHALL ADEQUATELY STABILIZE THE OUTLET, REMOVE EXCESS SEDIMENT DURING CONSTRUCTION. RESTORE THE POND TO THE DESIGNED ELEVATIONS PRIOR TO FINAL SEEDING. (B7) OUTLET PROTECTION SPECIFICATIONS REFER TO PLANS FOR THE LOCATION, DETAILS, AND SPECIFICATIONS FOR OUTLET PROTECTION-

SHEETS C900 TO C906, AS WELL AS SHEETS 16-18 OF THE LEBANON STANDARDS. (B8) GRADE STABILIZATION MEASURES EROSION CONTROL BLANKETS WILL BE USED IN THIS PHASE ON GRADES GREATER THAN 6:1

IF LIME STABILIZATION MEASURES ARE NEEDED DURING CONSTRUCTION TO OBTAIN COMPACTION. THE CONTRACTOR SHALL CONTAIN LIME FROM ENTERING EXISTING STORM SEWER SYSTEM BY ADEQUATELY CONTROLLING RUNOFF. CONTACT ENGINEER FOR SPECIFIC PLANS BASED ON THE AREA OF WORK.

AND/ OR EXPOSED TO CONCENTRATED FLOW. REFER TO CONSTRUCTION PLANS FOR

(B9) DEWATERING MEASURES DEWATERING WILL BE USED TO CONSTRUCT THE PROPOSED DETENTION PONDS, AND TO CONNECT THE OUTLET OF THE EXISTING FLYING J POND TO THE PROPOSED STRUCTURE, AS SHOWN ON SHEET C405. THE EXISTING SOUTH SWALE WILL ALSO BE DEWATERED TO

SEDIMENT FROM DEWATERING PUMP WILL BE TRAPPED USING FILTER BAGS OR APPROVED ALTERNATE. BAGS WILL BE USED, REPLACED, AND DISPOSED OF IN ACCORDANCE WITH MANUFACTURE'S & IDEM'S STANDARDS.

(B10) WORK WITHIN WATERBODIES

CONSTRUCT THE PROPOSED OUTLET.

THERE WOULD BE WORK PERFORMED WITHIN SOUTH EXISTING CHANNEL FOR THIS PROJECT IF NEEDED. (D44) MONITORING AND MAITENANCE OF HELINEO

(B11) MONITORING AND MAITENANCE GUIDELINES								
EROSION CONTROL MEASURE	* MAINTENANCE	INSTALLATION SEQUENCE						
STONE ENTRANCE SILT FENCE ROCK CHECK DAMS PERMANENT SEEDING EROSION CONTROL BLANKET SEED, SOD & LANDSCAPE AROUND DUST CONTROL CONCRETE WASHOUT	AS NEEDED WEEKLY, AFTER STORM EVENTS AND AS NEEDED WEEKLY, AFTER STORM EVENTS AND AS NEEDED WATER AS NEEDED WEEKLY, AFTER STORM EVENTS AND AS NEEDED WATER AS NEEDED AS NEEDED WEEKLY, AFTER STORM EVENTS AND AS NEEDED WEEKLY, AFTER STORM EVENTS AND AS NEEDED	ALONG WITH ROUGH GRADING AFTER FINISH GRADING AFTER FINISH GRADING AFTER FINISHED GRADING ALONG WITH ALL EARTHWORK ACTIVITIES						
REMOVAL OF INLET PROTECTION REMOVAL OF SILT FENCE REMOVAL OF ROCK CHECK DAMS	N/A N/A N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED						

A STORM EVENT IS CONSIDERED AT LEAST ONE-HALF INCH OF RAINFALL. * - SEE CHART FOR MAINTENANCE REQUIREMENTS

EROSION CONTROL MEASURES MAINTENANCE REQUIREMENTS SILT FENCE MAINTENANCE REQUIREMENTS: 1. INSPECT THE SILT FENCE PERIODICALLY AND AFTER

EACH STORM EVENT. 2. IF FENCE FABRIC TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY. REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF

THE HEIGHT OF THE FENCE AT ITS LOWEST POINT OR IS CAUSING THE FABRIC TO BULGE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEAN OUT.

5. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, BRING THE DISTURBED AREA TO GRADE,

NLET PROTECTION MAINTENANCE

REQUIREMENTS:

1. INSPECT EACH INLET PROTECTION MEASURE WEEKLY AND AFTER STORM EVENTS OR HEAVY USE. INSPECT STORM INLET BASKET OR GEOTEXTILE FABRIC AND MAKE REPAIRS.

. REMOVE ANY SEDIMENT, AVOID DAMAGING OR UNDERCUTTING FABRIC. TEMPORARY GRAVEL CONSTRUCTION ENTRANCE MAINTENANCE REQUIREMENTS:

INSPECT ENTRANCE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER STORM EVENTS OR HEAVY 2. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL

TOPDRESS WITH CLEAN STONE AS NEEDED. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING, FLUSHING SHOULD ONLY BE USED IF THI WATER IS CONVEYED INTO A SEDIMENT TRAP OR

MAINTENANCE REQUIREMENT INSPECT EACH EROSION CONTROL BLANKET AREAS WEEKLY AND AFTER EACH STORM

CHECK FOR DISPLACEMENT OF BLANKET

BLANKET COVERING THE ERODED AREA.

AREAS DISPLACES, PULL BACK PORTION OF

ADD SOIL AND TAMP, RESEED THE AREA. REPLACE AND STAPLE THE BLANKET. CONCRETE WASHOUT MAINTENANCE

EVENTS OR HEAVY USE.

INSPECT EACH CONCRETE WASHOUT AREA DAILY AND AFTER STORM EVENTS OR HEAVY USE. 2. INSPECT THE INTEGRITY OF THE OVERALL STRUCTURE, CHECK FOR LEAKS, SPILLS, OR

TRACKING OF SOIL BY EQUIPMENT. REMOVE EXCESS CONCRETE WHEN WASHOUT SYSTEMS REACHES 50% OF THE DESIGN CAPACITY UPON REMOVAL, INSPECT STRUCTURE. REPAIR AS NEEDED. 4. DISPOSAL OF ALL CONCRETE IN A LEGAL

REPLACE PLASTIC LINER AFTER EVERY CLEANING. ENLARGE AS NECESSARY TO MAINTAIN CAPACITY.

(B12) STORMWATER QUALITY SEQUENCE

PRE-CONSTRUCTION ACTIVITIES:

SCHEDULE A PRE-CONSTRUCTION MEETING WITH CITY OF COLUMBUS ENGINEERING DEPARTMENT.

DESIGNATE A PERSON TO BE RESPONSIBLE FOR THE SITE INSPECTIONS AFTER EACH RAIN A MINIMUM OF ONCE EACH WEEK.

CALL THE INDIANA UNDERGROUND PLANT PROTECTION SYSTEMS, INC. (HOLEY MOLEY) AT 1-800-382-5544 TO CHECK LOCATIONS OF ANY EXISTING UTILITIES- MIN, 2 DAYS PRIOR BEFORE CONSTRUCTION ACTIVITY.

ESTABLISH ONSITE LOCATION FOR OWNER/OPERATOR/CONTRACTOR PLACEMENT OF APPROVED PLANS AND CSGP NOI AND CSGP INSPECTION DOCUMENTATION.

INSTALL SILT FENCE AND OTHER EROSION CONTROL MEASURES AS INDICATED ON DRAWINGS.

INSTALL GRAVEL CONSTRUCTION ENTRANCE AS INDICATED ON DRAWINGS- ADD ADDITIONAL STONE AS NEEDED.

ESTABLISH CONSTRUCTION STAGING AREA FOR EQUIPMENT AND VEHICLES.

CONSTRUCTION ACTIVITY PHASING:

AFTER EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE, BEGIN LAND CLEARING FOLLOWED IMMEDIATELY BY ROUGH GRADING. EROSION CONTROL FOR LARGE UNPROTECTED AREAS MUST BE INITIATED WITHIN 7 DAYS OF EXPOSURE, AND MUST BE COMPLETE BY DAY 14 OF EXPOSURE

CONSTRUCT CONCRETE WASH STATION BEFORE CONCRETE WORK IS TO COMMENCE ON SITE. REFER TO PLAN FOR LOCATION. INSTALL SEWERS, ALL UTILITIES AND UNDERDRAINS. ADD INLET PROTECTION MEASURES AS INDICATED ON PLANS.

AFTER COMPLETION OF MASS GRADING AND FINAL GRADING: SEED ALL DISTURBED AREAS, COMMON AREAS AND SWALES IMMEDIATELY AFTER GRADING IS COMPLETED. PLACE TOPSOIL IN ALL TURF AND LANDSCAPE AREAS.

INSTALL PAVEMENT AND FINAL GRADE AREA.

RECEIVE AN ADEQUATE FINAL INSPECTION REPORT.

INSTALL LANDSCAPING AND FINAL SEEDING.

REMOVE ALL SEDIMENT CONTROL PRACTICES ONCE THE SITE IS STABILIZED.

NOTE: INSTALL TEMPORARY SEEDING AFTER A SPECIFIC STAGE OF CONSTRUCTION HAS BEEN COMPLETED (TEMPORARY OR FINAL) WHERE AREAS WILL BE IDLE OF CONSTRUCTION ACTIVITIES FOR A PERIOD OF 7 DAYS OR MORE. TO FINAL THE CITY STORMWATER MANAGEMENT PERMIT AND TO TERMINATE THE STATE CONSTRUCTION STORMWATER GENERAL PERMIT (CSGP):

CERTIFY THE SITE MEETS THE REQUIREMENTS THE FOLLOWING REQUIREMENTS:

ALL LAND DISTURBING ACTIVITIES HAVE BEEN COMPLETED FINAL STABILIZATION OF THE ENTIRE SITE HAS BEEN COMPLETED AND VEGETATED AREAS HAVE ACHIEVED 70% UNIFORM PERENNIAL VEGETATED COVER. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN REMOVED ALL PERMANENT STORMWATER QUALITY MEASURES HAVE BEEN IMPLEMENTED AND ARE OPERATIONAL. PROVIDE DOCUMENTATION THAT THE STORMWATER BMPS HAVE BEEN

ALL CONSTRUCTION MATERIALS, WASTE, WASTE HANDLING DEVICES, EQUIPMENT AND VEHICLES HAVE BEEN REMOVED. NO FUTURE LAND DISTURBING ACTIVITIES WILL OCCUR AT THE PROJECT SITE.

CONTACT THE CITY STORMWATER COORDINATOR TO REQUEST A FINAL RELEASE INSPECTION.

FILE A NOTICE OF TERMINATION THROUGH THE IDEM'S REGULATORY EPORTAL. ATTACH THE ADEQUATE FINAL INSPECTION REPORT TO CLOSE OUT THE CSGP. RECEIVE A NOTICE OF TERMINATION VERIFICATION FROM IDEM.

(B13) PROVISIONS FOR EROSION AND SEDIMENT CONTROL ON INDIVIDUAL RESIDENTIAL BUILDING LOTS REGULATED UNDER THE PROPOSED PROJECT

NO ADDITIONAL EROSION CONTROL SPECIFICATIONS ARE NEEDED FOR THIS PHASE.

(B14) MATERIAL HANDLING AND (B15) SPILL PREVENTION AND SPILL RESPONSE PLAN MEETING THE REQUIREMENTS IN 327 IAC 2-6.1 EXPECTED MATERIALS THAT MAY APPEAR AT THE SITE DUE TO CONSTRUCTION ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO PETROLEUM PRODUCTS, FERTILIZERS, PAINT AND SOLVENTS

SPILL PREVENTION FOR VEHICLE AND EQUIPMENT FUELING SHALL CONFORM TO THE FOLLOWING PRACTICES: VEHICLE EQUIPMENT FUELING PROCEDURES AND PRACTICES ARE DESIGNED 1 PREVENT FUEL SPILLS AND LEAKS, AND REDUCE OR ELIMINATE CONTAMINATION OF STORMWATER. THIS CAN BE ACCOMPLISHED BY USING OFFSITE FACILITIES, FUELING IN DESIGNATED AREAS ONLY, ENCLOSING OR COVERING STORED FUEL, IMPLEMENTING SPILL CONTROLS, AND TRAINING EMPLOYEES AND SUBCONTRACTORS IN PROPER FUELING PROCEDURES. LIMITATIONS: ONSITE VEHICLE AND EQUIPMENT FUELING SHOULD ONLY BE USED WHERE IT IS IMPRACTICAL TO SEND VEHICLES AND EQUIPMENT OFFSITE FOR FUELING. SENDING VEHICLES AND EQUIPMENT OFFSITE SHOULD BE DONE IN CONJUNCTION WITH A STABILIZED CONSTRUCTION ENTRANCE/EXIT. IMPLEMENTATION: USE OFFSITE FUELING STATIONS AS MUCH AS POSSIBLE. DISCOURAGE "TOPPING-OFF" OF FUEL TANKS. ABSORBENT SPILL CLEANUP MATERIALS AND SPILL KITS SHOULD BE AVAILABLE IN FUELING AREAS AND ON FUELING TRUCKS, AND SHOULD BE DISPOSED OF PROPERLY AFTER USE. DRIP PANS OR ABSORBENT PADS SHOULD BE USED DURING VEHICLE AND EQUIPMENT FUELING, UNLESS THE FUELING IS PERFORMED OVER AN IMPERMEABLE SURFACE IN A DEDICATED FUELING AREA. USE ABSORBENT MATERIALS ON SMALL SPILLS. DO NOT HOSE DOWN OR BURY THE SPILL. REMOVE THE ABSORBENT MATERIALS WATER QUALITY MEASURES AND PERFORMING THE WEEKLY SELF-MONITORING INSPECTIONS PROMPTLY AND DISPOSE OF PROPERLY. AVOID MOBILE FUELING OF MOBILE CONSTRUCTION EQUIPMENT TO DESIGNATED FUELING AREAS. TRAIN EMPLOYEES AND SUBCONTRACTORS IN PROPER FUELING AND CLEANUP PROCEDURES. DEDICATED FUELING AREAS SHOULD BE PROTECTED FROM STORMWATER RUNON AND RUNOFF, AND SHOULD BE LOCATED AT LEAST 50 FT AWAY FROM DOWNSTREAM DRAINAGE FACILITIES AND WATERCOURSES. FUELING MUST BE PERFORMED ON LEVEL-GRADE AREA. PROTECT FUELING AREAS WITH BERMS AND DIKES TO PREVENT RUNON, RUNOFF, AND TO CONTAIN SPILLS. NOZZLES USED IN VEHICLE AND EQUIPMENT FUELING SHOULD BE EQUIPPED WITH AN AUTOMATIC SHUTOFF TO CONTROL DRIPS. FUELING OPERATIONS SHOULD NOT BE LEFT UNATTENDED. FEDERAL, STATE, AND LOCAL REQUIREMENTS SHOULD BE OBSERVED FOR ANY STATIONARY ABOVE GROUND STORAGE TANKS.

VEHICLES AND EQUIPMENT SHOULD BE INSPECTED EACH DAY OF USE FOR LEAKS. LEAKS SHOULD BE REPAIRED IMMEDIATELY OR PROBLEM VEHICLES OR EQUIPMENT SHOULD BE REMOVED FROM THE PROJECT SITE. KEEP AMPLE SUPPLIES OF SPILL CLEANUP MATERIALS ONSITE. IMMEDIATELY CLEAN UP SPILLS AND PROPERLY DISPOSE OF CONTAMINATED SOILS. SPILL PREVENTION FOR SOLID WASTE SHALL CONFORM TO THE FOLLOWING PRACTICES: SOLID WASTE MANAGEMENT PROCEDURES AND PRACTICES ARE DESIGNED TO PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORMWATER FROM SOLID OR CONSTRUCTION WASTE BY PROVIDING DESIGNATED WASTE COLLECTION AREAS AND CONTAINERS, ARRANGING FOR REGULAR DISPOSAL, AND TRAINING EMPLOYEES AND SUBCONTRACTORS. SOLID WASTE GENERATED FROM TREES AND SHRUBS REMOVED DURING LAND CLEARING, DEMOLITION OF EXISTING STRUCTURES, AND BUILDING CONSTRUCTION. PACKAGING MATERIALS INCLUDING WOOD, PAPER, AND PLASTIC. SCRAP OR SURPLUS BUILDING MATERIALS INCLUDING SCRAP METALS, RUBBER, PLASTIC, GLASS PIECES AND MASONRY PRODUCTS. DOMESTIC WASTES INCLUDING FOOD CONTAINERS SUCH AS BEVERAGE CANS, COFFEE CUPS, PAPER BAGS, PLASTIC WRAPPERS, AND CIGARETTES. CONSTRUCTION WASTES INCLUDING BRICK, MORTAR, TIMBER, STEEL AND METAL SCRAPS, PIPE AND ELECTRICAL CUTTINGS, NON-HAZARDOUS EQUIPMENT PARTS, STYROFOAM AND OTHER PACKAGE CONSTRUCTION MATERIALS. SELECT DESIGNATED WASTE COLLECTION AREAS ONSITE. INFORM TRASH-HAULING CONTRACTORS THAT YOU WILL ACCEPT ONLY WATERTIGHT DUMPSTERS FOR ONSITE USE. INSPECT DUMPSTERS FOR LEAKS AND REPAIR ANY DUMPSTER THAT IS NOT WATERTIGHT. PROVIDE AN ADEQUATE NUMBER OF CONTAINERS WITH LIDS OR COVERS THAT CAN BE PLACED OVER THE CONTAINER TO KEEP RAIN OUT OR TO PREVENT LOSS OF WASTES WHEN IT IS WINDY. PLAN FOR ADDITIONAL CONTAINERS AND MORE FREQUENT PICKUP DURING THE DEMOLITION PHASE OF CONSTRUCTION. COLLECT SITE TRASH DAILY, ESPECIALLY DURING RAINY AND WINDY CONDITIONS. REMOVE THIS SOLID WASTE PROMPTLY SINCE EROSION AND SEDIMENT CONTROL DEVICES TEND TO COLLECT LITTER. MAKE SURE THAT TOXIC LIQUID WASTES (SUED OILS, SOLVENTS AND PAINTS) AND CHEMICALS (ACIDS PESTICIDES ADDITIVES CURING COMPOUNDS) ARE NOT DISPOSED OF IN DUMPSTERS DESIGNED FOR CONSTRUCTION DEBRIS. DO NOT HOSE OUT DUMPSTERS ON THE CONSTRUCTION SITE. LEAVE DUMPSTER CLEANING TO THE TRASH HAULING CONTRACTOR. ARRANGE FOR REGULAR WASTE COLLECTION BEFORE CONTAINERS OVERFLOW. CLEAN UP IMMEDIATELY IF A CONTAINER DOES SPILL. MAKE SURE THAT CONSTRUCTION WASTE IS COLLECTED, REMOVED, AND DISPOSED OF ONLY AT AUTHORIZED DISPOSAL AREAS. SOLID WASTE STORAGE AREAS SHOULD BE LOCATED AT LEAST 50 FT FROM DRAINAGE FACILITIES AND WATERCOURSES AND SHOULD NOT BE LOCATED IN AREAS PRONE TO FLOODING OR PONDING. INSPECT CONSTRUCTION WASTE AREA REGULARLY. ARRANGE FOR REGULAR WASTE COLLECTION.

SPILL PREVENTION FOR CONCRETE WASHOUT SHALL CONFORM TO THE FOLLOWING PRACTICES: STORE DRY AND WET MATERIALS UNDER COVER, AWAY FROM DRAINAGE AREAS. AVOID MIXING EXCESS AMOUNTS OF FRESH CONCRETE. PERFORM WASHOUT OF CONCRETE TRUCKS OFFSITE OR IN DESIGNATED AREAS ONLY. DO NOT WASH OUT CONCRETE TRUCKS INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS. DO NOT ALLOW EXCESS CONCRETE TO BE DUMPED ONSITE, EXCEPT IN DESIGNATED AREAS. LOCATE WASHOUT AREAS AT LEAST 50 FT FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES. DO NOT ALLOW RUNOFF FROM THIS AREA BY CONSTRUCTING A TEMPORARY PIT OR BERMED AREA LARGE ENOUGH FOR LIQUID AND SOLID WASTE. WASH OUT WASTES INTO THE TEMPORARY PIT WHERE THE CONCRETE CAN SET, BE BROKEN UP, AND THEN DISPOSED PROPERLY. AVOID CREATING RUNOFF BY DRAINING WATER TO A BERMED OR LEVEL AREA WHEN WASHING CONCRETE TO REMOVE FINE PARTICLES AND EXPOSE THE AGGREGATE. DO NOT WASH SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE INTO THE STREET OR STORM DRAIN. COLLECT AND RETURN SWEEPINGS TO AGGREGATE BASE STOCKPILE OR DISPOSE IN THE TRASH. 10 MIL LINER REQUIRED.

THE CLEANUP PARAMETERS SHALL CONFORM TO THE FOLLOWING PRACTICES: THE DEVELOPER SHALL BE CONTINUALLY KEPT INFORMED, MAINTAIN LISTS OF QUALIFIED CONTRACTORS AND AVAILABLE VAC-TRUCKS, TANK PUMPERS AND OTHER EQUIPMENT READILY ACCESSIBLE FOR CLEANUP OPERATIONS. IN ADDITION, A CONTINUALLY UPDATED LIST OF AVAILABLE ABSORBENT MATERIALS AND CLEANUP SUPPLIES SHOULD BE KEPT ON SITE. ALL MAINTENANCE PERSONNEL WILL BE MADE AWARE OF TECHNIQUES FOR PREVENTION OF SPILLS. THEY WILL BE INFORMED OF THE REQUIREMENTS AND PROCEDURES OUTLINED IN THIS PLAN. THEY WILL BE KEPT ABREAST OF CURRENT DEVELOPMENTS OR NEW INFORMATION ON THE PREVENTION OF SPILLS AND / OR NECESSARY ALTERATION TO THIS PLAN. WHEN SPILLS OCCUR WHICH COULD ENDANGER HUMAN LIFE AND THIS BECOME PRIMARY CONCERN, THE DISCHARGE OF THE LIFE SAVING PROTECTION FUNCTION WILL BE CARRIED OUT BY THE LOCAL POLICE AND FIRE DEPARTMENTS. ABSORBENT MATERIALS, WHICH ARE USED IN CLEANING UP SPILLED MATERIALS, WILL BE DISPOSED OF IN A MANNER SUBJECT TO THE APPROVAL OF THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT. FLUSHING OF SPILLED MATERIAL WITH WATER WILL NOT BE PERMITTED UNLESS SO AUTHORIZED BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT. COLLECT WASTE FROM WASHING TOOLS, SAW CUTTING, MIXING MORTAR, STUCCO, OTHER CEMENTITIOUS PRODUCTS. NO CLEANING OR WASHING OR MIXING ONTO GROUND.

SPILL PREVENTION FOR VEHICLE AND EQUIPMENT MAINTENANCE SHALL CONFORM TO THE FOLLOWING PRACTICES: PREVENT OR REDUCE THE CONTAMINATION OF STORMWATER RESULTING FROM VEHICLE AND EQUIPMENT MAINTENANCE BY RUNNING A "DRY AND CLEAN SITE". THE BEST OPTION WOULD BE TO PERFORM MAINTENANCE ACTIVITIES AT AN OFFSITE FACILITY. THIS OPTION IS NOT AVAILABLE THEN WORK SHOULD BE PERFORMED IN DESIGNATED AREAS ONLY, WHILE PROVIDING COVER FOR MATERIALS STORED OUTSIDE, CHECKING FOR LEAKS AN SPILLS, AND CONTAINING AND CLEANING UP SPILLS IMMEDIATELY. THESE PROCEDURES ARE SUITABLE ON ALL CONSTRUCTION PROJECTS WHERE AN ONSITE YARD AREA IS NECESSARY FOR STORAGE AND MAINTENANCE OF HEAVY EQUIPMENT AND VEHICLES. ONSITE VEHICLE AND EQUIPMENT MAINTENANCE SHOULD ONLY BE USED WHERE IT IS IMPRACTICAL TO SEND VEHICLES. AND EQUIPMENT OFFSITE FOR MAINTENANCE AND REPAIR. SENDING VEHICLES / EQUIPMENT OFFSITE SHOULD BY DONE IN CONJUNCTION WITH A STABILIZED CONSTRUCTION ENTRANCE , EXIT. OUT DOOR VEHICLE OR EQUIPMENT MAINTENANCE IS A POTENTIALLY SIGNIFICANT SOURCE OF STORMWATER POLLUTION. ACTIVITIES THAT CAN CONTAMINATE STORMWATER INCLUDE ENGINE REPAIR AND SERVICE, CHANGING OR REPLACEMENT OF FLUIDS, AND OUTDOOR EQUIPMENT STORAGE AND PARKING (ENGINE FLUID LEAKS). IF MAINTENANCE MUST OCCUR ONSITE USE DESIGNATED AREAS, LOCATED AWAY FROM DRAINAGE COURSES. DEDICATED MAINTENANCE AREAS SHOULD BE PROTECTED FROM STORMWATER RUNON AND RUNOFF, AND SHOULD BE LOCATED AT LEAST 50 FT FROM DOWNSTREAM DRAINAGE FACILITIES AND WATER COURSES. DRIP PANS OR ABSORBENT PADS SHOULD BE USED DURING VEHICLE AND EQUIPMENT MAINTENANCE WORK THAT INVOLVES FLUIDS, UNLESS THE MAINTENANCE WORK IS PERFORMED OVER AND IMPERMEABLE SURFACE IN A DEDICATED MAINTENANCE AREA. PLACE A STOCKPILE OF SPILL CLEANUP MATERIALS WHERE IT WILL BE READILY ACCESSIBLE. ALL FUELING TRUCKS AND FUELING AREAS ARE REQUIRED TO HAVE SPILL KITS AND/OR USE OTHER SPILL PROTECTION DEVICES. USE ABSORBENT MATERIALS ON SMALL SPILLS. REMOVE THE ABSORBENT MATERIALS PROMPTLY AND DISPOSE OF PROPERLY. INSPECT ONSITE VEHICLES AND EQUIPMENT DAILY AT STARTUP FOR LEAKS, AND REPAIR IMMEDIATELY. KEEP VEHICLES AND EQUIPMENT CLEAN; DO NOT ALLOW EXCESSIVE BUILDUP OF OIL AND GREASE. SEGREGATE AND RECYCLE WASTES, SUCH AS GREASES, USED OIL OR OIL FILTERS, ANTIFREEZE, CLEANING SOLUTIONS, AUTOMOTIVE BATTERIES, HYDRAULIC AND TRANSMISSION FLUIDS. PROVIDE SECONDARY CONTAINMENT AND COVERS FOR THESE MATERIALS IF STORED ONSITE. TRAIN EMPLOYEES AND SUBCONTRACTORS IN PROPER MAINTENANCE AND SPILL CLEANUP PROCEDURES. DRIP PANS OR PLASTIC SHEETING SHOULD BY PLACED UNDER ALL VEHICLES AND EQUIPMENT PLACED ON DOCKS, BARGES, OTHER STRUCTURES OVER WATER BODIES WHEN THE VEHICLE OR EQUIPMENT IS PLANNED TO BE IDLE FOR MORE THAN 1 HOUR. PROPERLY DISPOSE OF USED OILS, FLUIDS, LUBRICANTS, AND SPILL CLEANUP MATERIALS. PROPERLY DISPOSE OF OR RECYCLE USED BATTERIES. DO NOT PLACE USED OIL IN A DUMPSTER OR POUR INTO A STORM DRAIN OR WATER COURSE. PROPERLY DISPOSE OF USED OILS, FLUIDS, LUBRICANTS, AND SPILL CLEANUP MATERIALS. DON NOT BURY TIRES. REPAIR LEAKS OF FLUIDS AND OIL IMMEDIATELY.

SPILL PREVENTION FOR FERTILIZERS SHALL CONFORM TO THE FOLLOWING PRACTICES: FERTILIZER'S USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WIL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

SPILL PREVENTION FOR PAINT AND SOLVENTS SHALL CONFORM TO THE FOLLOWING PRACTICES: ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE OR LOCAL

SPILL PREVENTION FOR PORTABLE TOILETS SHALL CONFORM TO THE FOLLOWING PRACTICE: ALL PORTABLE TOILETS MUST BE ANCHORED TO PREVENT SPILLS. SPILL PREVENTION AND CLEANUP SHALL CONFORM TO IDEM FORM 327 IAC 2-6 AND THE COLUMBUS FIRE DEPARTMENT SHALL BE CONTACTED IN THE CASE OF A MATERIAL SPILL

IDEM EMERGENCY SPILL REPORTING: COLUMBUS FIRE DEPARTMENT COLUMBUS POLICE DEPARTMENT BARTHOLOMEW COUNTY SOIL & WATER CONSERVATION CITY OF COLUMBUS ENGINEERING DEPARTMENT

(812) 376-2679 (812) 376-2600 (812) 378-1280 (812) 376-2540

(317) 233-7745 OR (888) 233-7745

(B15) MATERIAL HANDLING AND STORAGE PROCEDURES ASSOCIATED WITH CONSTRUCTION ACTIVITY

APPROPRIATE MEASURES MUST BE IMPLEMENTED TO MANAGE WASTES OR UNUSED BUILDING MATERIALS INCLUDING, BUT NOT LIMITED TO GARBAGE, DEBRIS, CLEANING WASTES, WASTEWATER, CONCRETE OR CEMENTITIOUS WASHOUT WATER, MORTAR/MASONRY PRODUCTS, SOIL STABILIZERS, LIME STABILIZATION MATERIALS, AND OTHER SUBSTANCES. WASTES AND UNUSED BUILDING MATERIALS MUST BE MANAGED AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE STATUTES AND REGULATIONS. PROPER STORAGE AND HANDLING OF MATERIALS, SUCH AS FUELS OR HAZARDOUS WASTES, AND SPILL PREVENTION AND CLEAN-UP MEASURES MUST BE IMPLEMENTED TO MINIMIZE THE POTENTIAL FOR POLLUTANTS TO CONTAMINATE SURFACE OR GROUND WATER OR DEGRADE SOIL QUALITY.

CONCRETE OR CEMENTITIOUS WASHOUT AREAS, WHERE WASHOUT IS PERMISSIBLE, MUST BE IDENTIFIED FOR THE SITE AND LOCATIONS CLEARLY POSTED. WASH WATER MUST BE DIRECTED INTO LEAK-PROOF CONTAINERS OR LEAK-PROOF CONTAINMENT AREAS WHICH ARE LOCATED AND DESIGNED TO DIVERT STORMWATER RUN-OFF AWAY FROM THE MEASURE AND SIZED TO PREVENT THE DISCHARGE AND/OR OVERFLOW OF THE WASH WATER.

(B16) MONITORING AND PROJECT MANAGEMENT PLAN

PROVIDE TRAINED INDIVIDUAL DOCUMENTATION TO THE CITY OF COLUMBUS STORMWATER COORDINATOR.

A PRE-CONSTRUCTION MEETING WITH THE CITY OF COLUMBUS STORMWATER COORDINATOR AND THE OWNER, CONTRACTOR, AND APPOINTED "TRAINED INDIVIDUAL" WILL BE REQUIRED BEFORE LAND DISTURBING COMMENCES, INCLUDING INSTALLATION OF SEDIMENT AND EROSION CONTROL BMPS.

A BMP MEETING WILL BE REQUIRED WITH THE CONTRACTOR, OWNER AND/OR LESSEE, AND THE CITY STORMWATER COORDINATOR AT THE TIME OF CERTIFICATE OF OCCUPANCY.

UN-VEGETATED AREAS THAT ARE LEFT IDLE OR SCHEDULED TO BE LEFT INACTIVE FOR 7 DAYS OR MORE MUST_BE TEMPORARILY OR PERMANENTLY STABILIZED WITH MEASURES APPROPRIATE FOR THE SEASON. STABILIZATION MUST BE INITIATED BY THE END OF THE SEVENTH (7TH) DAY. THE STABILIZATION ACTIVITY MUST BE COMPLETED WITHIN FOURTEEN (14) DAYS AFTER INITIATION. INITIATION OF STABILIZATION INCLUDES, BUT IS NOT LIMITED TO, THE SEEDING AND/OR PLANTING OF THE EXPOSED AREA AND APPLYING MULCH OR OTHER TEMPORARY SURFACE STABILIZATION METHODS WHERE APPROPRIATE

A TRAINED INDIVIDUAL SHALL PERFORM VISUAL INSPECTIONS OF THE PROJECT SITE. A TRAINED INDIVIDUAL IS AN INDIVIDUAL WHO IS TRAINED AND EXPERIENCED IN THE PRINCIPLES OF STORMWATER MANAGEMENT, INCLUDING EROSION AND SEDIMENT CONTROL AS IS DEMONSTRATED BY COMPLETION OF COURSEWORK, STATE REGISTRATION PROFESSIONAL CERTIFICATION, OR ANNUAL TRAINING THAT ENABLE THE INDIVIDUAL TO MAKE JUDGMENTS REGARDING STORMWATER MANAGEMENT, TREATMENT, AND MONITORING

1) THE FREQUENCY OF SELF-INSPECTIONS ARE: a.AT LEAST ONCE EVERY WORK WEEK;

b. WITHIN TWENTY-FOUR (24) HOURS AFTER QUALIFYING PRECIPITATION EVENT, WHICH IS PRECIPITATION ACCUMULATION EQUAL TO, OR GREATER THAN, ONE-HALF (0.50) INCH OF RAINFALL WITHIN A 24-HOUR PERIOD. INSPECTIONS THAT WERE CONDUCTED TWENTY-FOUR (24) HOURS PRIOR TO A QUALIFYING PRECIPITATION c.IF THERE ARE MULTIPLE QUALIFYING PRECIPITATION EVENTS OCCUR DURING THE WEEK NO MORE THAN THREE (3) INSPECTIONS ARE REQUIRED WITHIN THAT WEEK. PROJECT MANAGEMENT LOG: THE PROJECT OWNER IS REQUIRED TO KEEP A PROJECT MANAGEMENT LOG THAT ADDRESS THE REQUIREMENTS FOUND WITHIN IDEM CONSTRUCTION STORMWATER GENERAL

PERMIT (CSGP). THEY ARE REQUIRED TO RETAIN THE PROJECT MANAGEMENT LOG FOR THREE YEARS AFTER COMPLETION OF THE PROJECT, NOTICE OF TERMINATION THE PROJECT MANAGEMENT LOG SHOULD INCLUDE:

1.INFORMATION RELATED TO ALL OFF-SITE BORROW SITES, DISPOSAL AREAS, AND STAGING AREAS

2.INFORMATION RELATED TO ALL PROJECT ACTIVITIES INCLUDING, BUT NOT LIMITED TO

a.SMP (SELF-MONITORING PROGRAM) REPORTS. **b.PUBLIC NOTICED DOCUMENTATION**

OF CONSTRUCTION ACTIVITIES.

c.REGULATORY INSPECTIONS. d.RESPONSES TO A COMPLIANCE ACTION OR ENFORCEMENT ACTION.

e.RECORDS SHOWING THE DATES OF ALL SWP3 MODIFICATIONS. THE RECORDS MUST INCLUDE THE NAME OF THE PERSON AUTHORIZING EACH CHANGE AND A SUMMARY OF ALL CHANGES. 3. TRAINED INDIVIDUAL'S QUALIFYING DOCUMENTS

4.DOCUMENTATION SHOWING THAT PERSONNEL ASSOCIATED WITH THE PROJECT HAVE BEEN INFORMED OF THE TERMS AND CONDITIONS OF THE PERMIT AND THE REQUIREMENTS WITHIN THE SWP3. 5.ENSURE THE SWP3 AND SUPPORTING DOCUMENTATION ASSOCIATED WITH THE SMP AND PROJECT MANAGEMENT LOG ARE ACCESSIBLE AT THE PROJECT SITE OFFICE OR

6.ALL REPORTS FOR THE PROJECT SITE MUST BE PROVIDED TO THE INSPECTING AUTHORITY WITHIN FORTY-EIGHT (48) HOURS OF A REQUEST. ELECTRONIC COPIES ARE ACCEPTABLE, PROVIDED THEY ARE IN A FORMAT CONSISTENT WITH THE PAPER RECORD.

IN THE POSSESSION OF ON-SITE INDIVIDUALS WITH RESPONSIBILITY FOR THE OVERALL PROJECT MANAGEMENT OR ASSOCIATED WITH THE MANAGEMENT AND OPERATIONS

THE "TRAINED INDIVIDUAL MEANS AN INDIVIDUAL WHO IS TRAINED AND EXPERIENCED IN THE PRINCIPLES OF STORM WATER QUALITY, INCLUDING EROSION AND SEDIMENT CONTROL AS MAY BE DEMONSTRATED BY STATE REGISTRATION, PROFESSIONAL CERTIFICATION, EXPERIENCE, OR COMPLETION OF COURSEWORK THAT ENABLE THE INDIVIDUAL O MAKE JUDGMENTS REGARDING STORM WATER CONTROL OR TREATMENT AND MONITORING."

d.ALL PERMANENT STORMWATER QUALITY MEASURES HAVE BEEN IMPLEMENTED AND ARE OPERATIONAL. PROVIDE DOCUMENTATION THAT THE STORMWATER BMPS HAVE

CERTIFY THE SITE MEETS THE REQUIREMENTS THE FOLLOWING REQUIREMENTS:

a. ALL LAND DISTURBING ACTIVITIES HAVE BEEN COMPLETED b.FINAL STABILIZATION OF THE ENTIRE SITE HAS BEEN COMPLETED AND VEGETATED AREAS HAVE ACHIEVED 70% UNIFORM PERENNIAL VEGETATED COVER. c.ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN REMOVED

BEEN INSPECTED AND CLEANED. e. ALL CONSTRUCTION MATERIALS, WASTE, WASTE HANDLING DEVICES, EQUIPMENT AND VEHICLES HAVE BEEN REMOVED.

(C2) DESCRIPTION OF PROPOSED POST-CONSTRUCTION STORMWATER MEASURES

(C5) MAINTENANCE GUIDELINES FOR POST-CONSTRUCTION STORMWATER MEASURES

f. NO FUTURE LAND DISTURBING ACTIVITIES WILL OCCUR AT THE PROJECT SITE. 2) CONTACT THE CITY STORMWATER COORDINATOR TO REQUEST A FINAL RELEASE INSPECTION

3) RECEIVE AN ADEQUATE FINAL INSPECTION REPORT. 4) FILE A NOTICE OF TERMINATION THROUGH THE IDEM'S REGULATORY EPORTAL. ATTACH THE ADEQUATE FINAL INSPECTION REPORT TO CLOSE OUT THE CSGP. 5) RECEIVE A NOTICE OF TERMINATION VERIFICATION FROM IDEM.

ASSESSMENT OF STORMWATER POLLUTION PREVENTION PLAN COMPONENT (SECTION C)

(C1) DESCRIPTION OF POLLUTATNTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE POTENTIAL POLLUTANT SOURCES THAT MAY APPEAR AT THE SITE DUE TO PROPOSED LAND USE ACTIVITIES, BUT ARE NOT LIMITED TO VEHICLES, EXPOSED SOIL AND TRASH, POTENTIAL POLLUTANTS INCLUDE, BUT ARE NOT LIMITED TO OIL, GREASE, DIESEL FUEL, GASOLINE, ANTI-FREEZE, AUTO SOAP AND FERTILIZER.

POST CONSTRUCTION STORMWATER QUALITY MEASURES TO AID IN REDUCING THE AMOUNT OF POLLUTANTS: POST CONSTRUCTION STORMWATER QUALITY MEASURES WILL CONSIST OF VEGETATIVE COVER ON THE PERMANENT GRASS AREAS IMMEDIATELY AFTER COMPLETION OF FINAL GRADING. THE VEGETATIVE COVER IS INTENDED TO STABILIZE THE DISTURBED AREAS AND TO SERVE AS A SEDIMENT TRAP FOR FINER PARTICLES WITHIN THE STORM SEWER SYSTEM.

THE USE OF INLETS WITHIN THE STORM SEWER SYSTEM HAS BEEN UTILIZED. MAINTENANCE OF THE INLETS WILL BE THE RESPONSIBILITY OF THE OWNER AND/OR AGENCY TAKING JURISDICTION OVER THE STORM SEWER INFRASTRUCTURE IMPROVEMENTS. 3. AQUA SWIRL MECHANICAL BMP STRUCTURES ARE PROPOSED FOR THIS PROJECT. THE OWNER SHALL FOLLOW THE OPERATION AND MAINTENANCE SCHEDULE AS DEFINED IN THE PROJECT O&M MANUAL. INSPECTIONS SHALL OCCUR AS DEFINED IN THE PROJECT O&M MANUAL. THESE CAN BE FOUND ON SHEETS C300,

(C3) PLAN DETAILS FOR EACH STORMWATER MEASURE

STORMWATER QUALITY MEASURES FOR POST CONSTRUCTION ACTIVITIES ARE INDICATED WITHIN THESE CONSTRUCTION DOCUMENTS. REFER TO SHEETS C900 FOR EROSION CONTROL MEASURES TO BE IMPLEMENTED WITHIN THE PROJECT SITE. REFER TO SHEETS C300 & C301 FOR MECHANICAL BMP STRUCTURES AND STORM SEWER IMPROVEMENTS. DETAILS CAN BE FOUND ON SHEET C800 AND IN THE O&M MANUAL. (C4) SEQUENCE DESCRIBING STORMWATER MEASURE IMPLEMENTATION

THE STORMWATER BMP STRUCTURES SHALL BE IMPLEMENTED AT THE TIME OF STORM SEWER INSTALLATION. ADDITIONAL STORMWATER QUALITY MEASURES WILL

BE IMPLEMENTED AT THE DEVELOPMENT OF SUBSEQUENT CONSTRUCTION PHASES. FOLLOWING CONSTRUCTION, ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED UNTIL ALL PERMANENT MEASURES AND VEGETATION HAS BEEN ESTABLISHED AND CONSTRUCTION, INCLUDING LANDSCAPING, IS INDIVIDUAL EROSION CONTROL MEASURES MAY BE REMOVED FROM INLET PROTECTION STATUS FOLLOWING SEEDING AND AFTER SUFFICIENT VEGETATION HAS

BEEN ESTABLISHED IN AN AREA TO PREVENT SILT AND SOIL EROSION INTO THE STORM SEWER SYSTEM. INSPECTION AND MAINTENANCE OF ALL COMMON AREAS, LANDSCAPE AREAS, MECHANICAL BMP UNITS, AND INFRASTRUCTURE IMPROVEMENTS ARE THE RESPONSIBILITY OF THE DEVELOPER/OWNER AND OR LOCAL AGENCIES TAKING JURISDICTION OVER THE INFRASTRUCTURE IMPROVEMENTS.

OWNER WILL PROVIDE MAINTENANCE ACTIVITIES FOR THE POST CONSTRUCTION WATER QUALITY MEASURES. MAINTENANCE ACTIVITIES WILL BE COMPLETED AS . ALL INLET CASTINGS WILL BE INSPECTED MONTHLY. DEBRIS AND TRASH AROUND OR OBSTRUCTING INLETS WILL BE REMOVED AND DISPOSED PROPERLY. 2. GRASS AREAS SURROUNDING INLETS WILL BE MAINTAINED ON A REGULAR MOWING CYCLE. TRASH AND DEBRIS WILL BE REMOVED FROM SEEDED AND PAVED

4. THE OWNER SHALL FOLLOW THE OPERATION AND MAINTENANCE SCHEDULE AS DEFINED IN THE PROJECT O&M MANUAL. INSPECTIONS SHALL OCCUR AS DEFINED IN THE PROJECT O&M MANUAL. (C6) ENTITY THAT WILL BE RESPONSIBLE FOR OPERATION AND MAINTENANCE OF THE POST-CONSTRUCTION STORMWATER **MEASURES**

3. DAMAGE TO INLET CASTINGS, INLET STRUCTURES, STORM STRUCTURES, OR CATCH BASINS SHOULD BE REPAIRED AS SOON AS POSSIBLE

BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION BRETT BOEZEMAN, DIRECTOR OF OPERATIONS

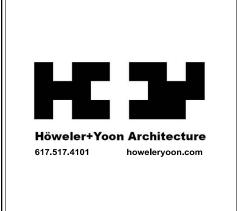
1260 N. MARR ROAD COLUMBUS, IN 47201 PH: (812) 376-4231 boezemanb@bcsc.k12.in.us

SCALE IN FEET





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

The drawings do not necessarily indicate or describe al On the basis of the general scope indicated or desc the trade contractors shall furnish all items required for th proper execution and completion of the wor

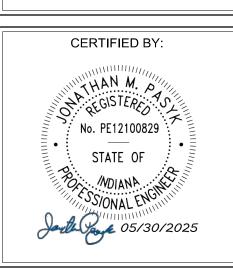
SCOPE DRAWINGS:

REVISIONS:

/1\ 06/10/2025 - ADDENDUM #01

ISSUE DATE | DRAWN BY | CHECKED BY 05/30/25

DRAWING TITLE:



DRAWING NUMBER PROJECT NUMBER

2024022



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RTHOLOMEW CONSOLIDATED SCHOOL CORPORATION

PLE GROVE ELEMENTAR?

TON LAKES BLVD, COLUMBUS, IN 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.

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DATE DRAWN BY CHECKED BY

ISSUE DATE DRAWN BY CHECKED BY 05/30/25 MA / LM AP

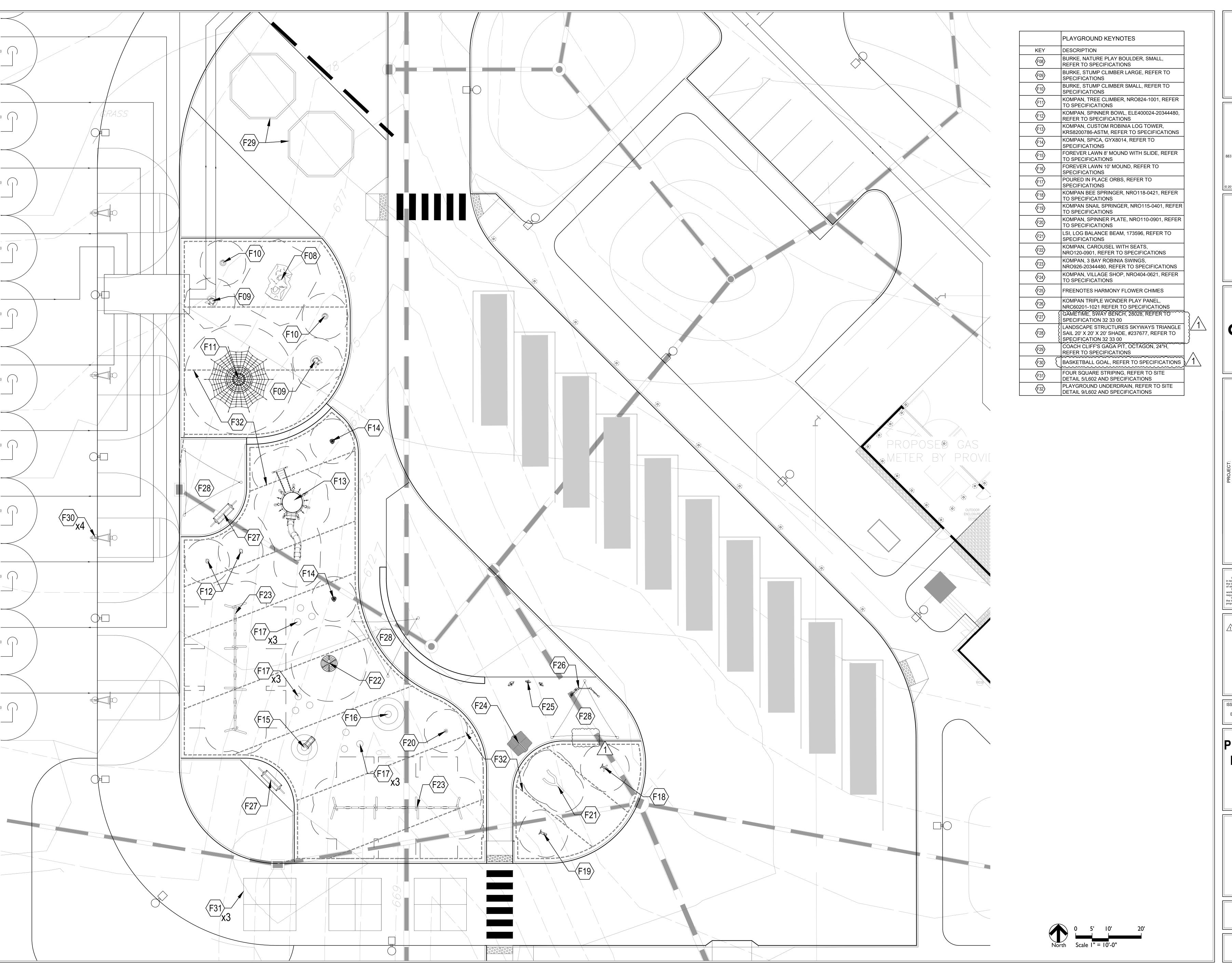
SITE
MATERIALS

CERTIFIED BY:



L 102

PROJECT NUMBER 24-1815

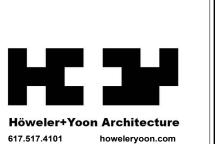




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SCOPE DRAWINGS: SCOPE DRAWINGS:

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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:** ADDENDUM 1 06/10/2025

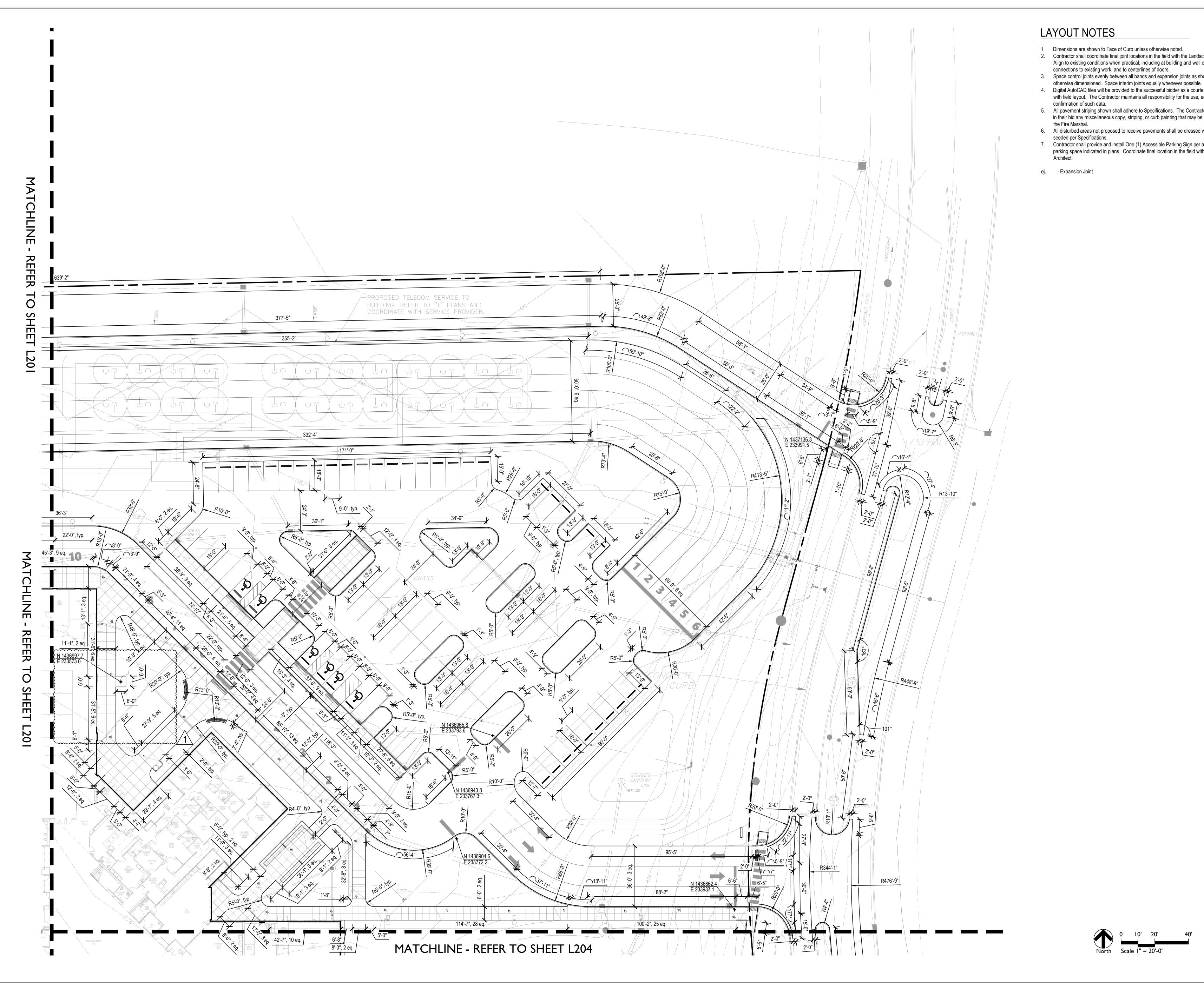
ISSUE DATE | DRAWN BY | CHECKED BY 05/30/25 MA / LM

DRAWING TITLE: **PLAYGROUND**

EQUIPMENT



DRAWING NUMBER L110



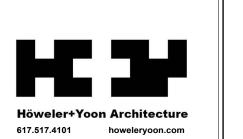
- Dimensions are shown to Face of Curb unless otherwise noted.
- 2. Contractor shall coordinate final joint locations in the field with the Landscape Architect. Align to existing conditions when practical, including at building and wall corners,
- 3. Space control joints evenly between all bands and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



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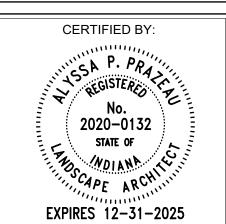
SCOPE DRAWINGS:

REVISIONS: ADDENDUM 1 06/10/2025

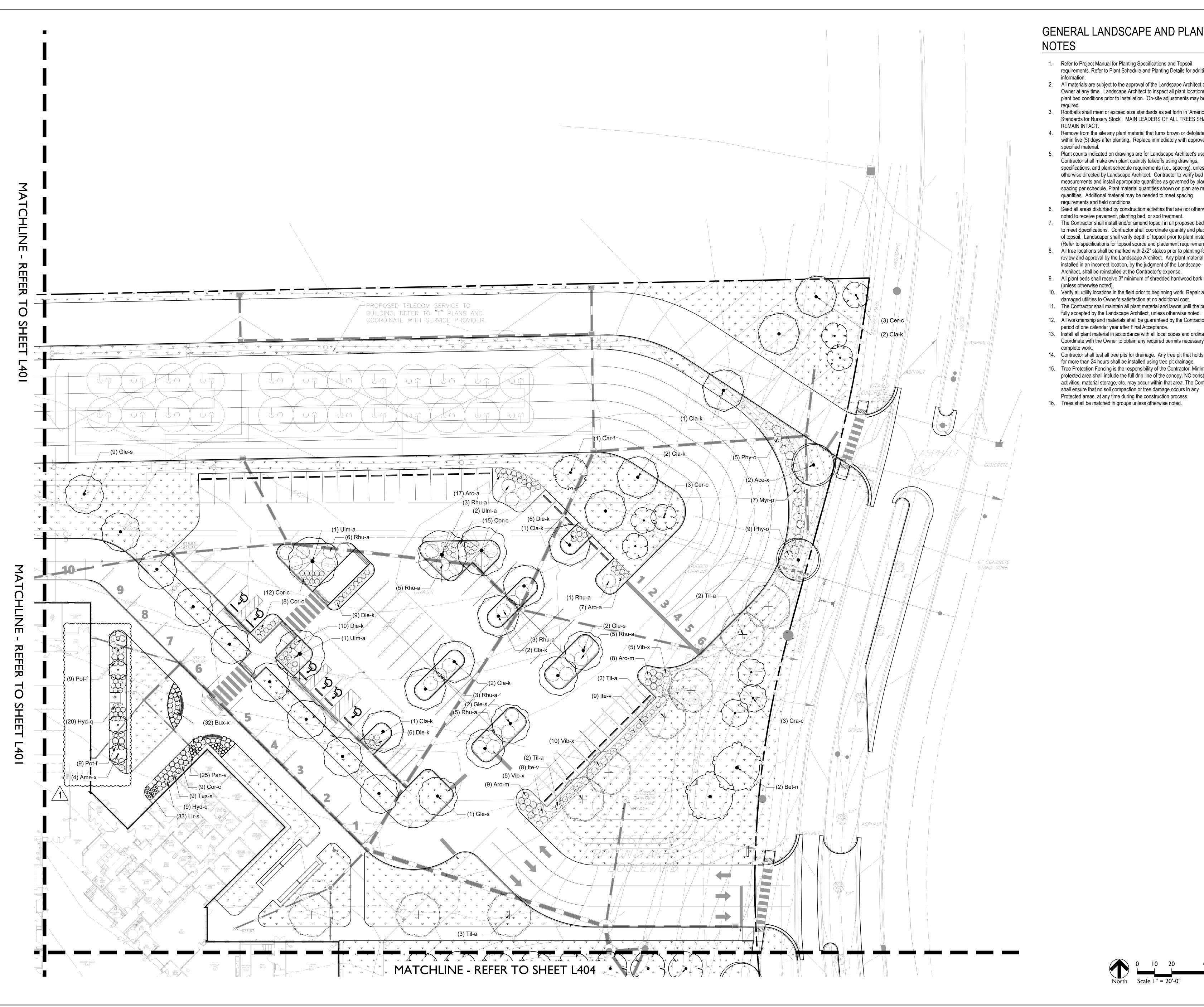
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DRAWING TITLE:

LAYOUT



PROJECT NUMBER 24-1815



GENERAL LANDSCAPE AND PLANTING

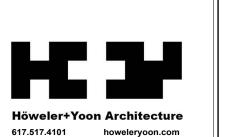
- 1. Refer to Project Manual for Planting Specifications and Topsoil requirements. Refer to Plant Schedule and Planting Details for additional
- 2. All materials are subject to the approval of the Landscape Architect and Owner at any time. Landscape Architect to inspect all plant locations and plant bed conditions prior to installation. On-site adjustments may be
- 3. Rootballs shall meet or exceed size standards as set forth in 'American Standards for Nursery Stock'. MAIN LEADERS OF ALL TREES SHALL
- 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
- Protected areas, at any time during the construction process. 16. Trees shall be matched in groups unless otherwise noted.



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SCOPE DRAWINGS:

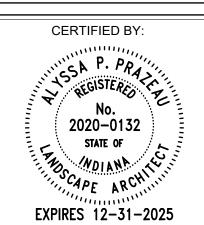
REVISIONS: ADDENDUM 1 06/10/2025

ISSUE DATE | DRAWN BY | CHECKED BY

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DRAWING TITLE:

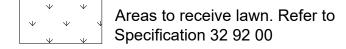
PLANTING

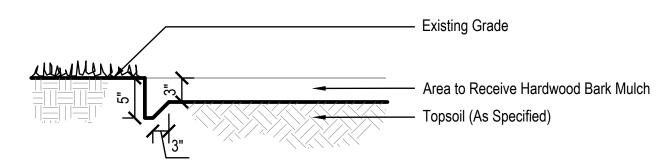


DRAWING NUMBER L402

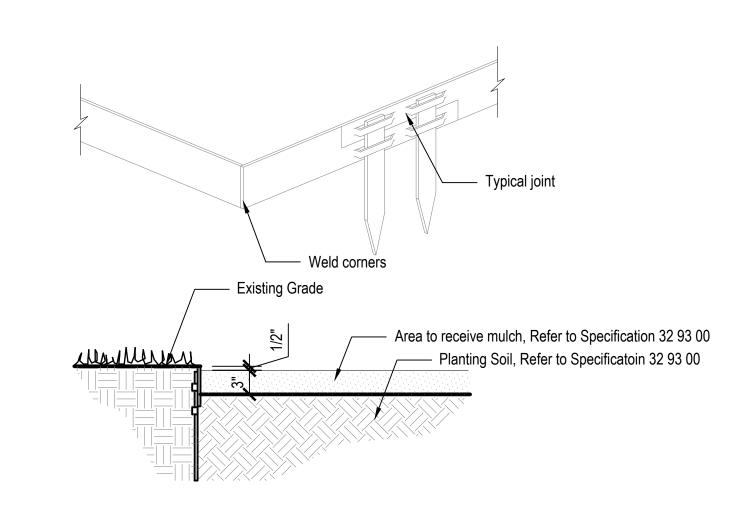
CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	REMARKS
TREES						
Ace-o	1	Acer saccharum 'Hiawatha 1'	Oregon Trail Sugar Maple	B & B	2.5"Cal	matched, strong central leader, full
Ace-x	11	Acer saccharum `Green Mountain'	Green Mountain Sugar Maple	B & B	2.5"Cal	matched, full, strong central leader
3et-n	2	Betula nigra	River Birch	B & B	8` ht.	clump form, 3-5 stems, matched
Car-f	4	Carpinus betulus 'Fastigiata'	Upright European Hornbeam	15 gal		matched, strong central leader, symmetrical
Cla-k	11	Cladrastis kentukea	American Yellowwood	B & B	2.5"Cal	matched, strong central leader
Gle-s	14	Gleditsia triacanthos `Imperial`	Imperial Honey Locust	B & B	2.5"Cal	strong central leader, symmetrical, full, matched
Nys-s	2	Nyssa sylvatica 'Haymanred' TM	Red Rage Tupelo	B & B	2.5"Cal	matched, strong central leader
Que-b	1	Quercus bicolor	Swamp White Oak	B & B	2.5"Cal	spring dug, full, strong central leader, matched
Que-r	1	Quercus rubra	Red Oak	B & B	2.5"Cal	spring dug, strong central leader, symmetrical,
						full, matched
Til-a	9	Tilia americana 'Boulevard'	Boulevard American Linden	B & B	2.5"Cal	matched, strong central leader
Ulm-a	8	Ulmus americana `Princeton`	American Elm	B & B	2.5"Cal	matched, strong central leader
ORNAMEN	NTAL TRE	=FS				
Ame-x	5	Amelanchier x grandiflora `Autumn Brilliance`	Autumn Brilliance Serviceberry	B & B	min. 8` ht.	clump form, 5-13 stems
Cer-c	9	Cercis canadensis	Eastern Redbud	B & B	min. 6` ht.	clump form, 3-5 stems
Cra-c	6	Crataegus crus-galli 'Cruzam'	Crusader® Cockspur Hawthorn	B & B	8` ht.	clump form, 3-7 stems
CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	HEIGHT	REMARKS
SHRUBS						
Aro-a	24	Aronia arbutifolia `Brilliantissima`	Brilliant Red Chokeberry	Container	18" ht. min.	space @ 3`-0" o.c.
Aro-m	17	Aronia melanocarpa `Iroquois Beauty`	Black Chokeberry	Container	18" ht. min.	space @ 4`-0" o.c.
Cor-c	35	Cornus sericea `Arctic Fire`	Arctic Fire Red Twig Dogwood	Container	18" ht. min.	space @ 3'-0" o.c.
Die-k	31	Diervilla x Kodiac Orange	Kodiac Orange Northern Bush Honeysuckle	Container	18" ht. min.	space @ 3`-6" o.c.
te-v	17	Itea virginica `Henry`s Garnet`	Henry`s Garnet Sweetspire	Container	18" ht. min.	space @ 3`-0" o.c.
Myr-p	7	Myrica pensylvanica `Morton`	Silver Sprite Bayberry	Container	24" ht. min.	space @ 5`-0" o.c.
Phy-o	14	Physocarpus opulifolius `Summer Wine`	Summer Wine Ninebark	Container	24" ht. min.	space @ 5`-0" o.c.
Rhu-a	31	Rhus aromatica `Gro-Low`	Gro-Low Fragrant Sumac	container	18" spread	space @ 5`-0" o.c., allow to mass
Vib-x	20	Viburnum x juddii	Judd Viburnum	Container	18" ht. min.	space @ 4`-0" o.c., allow to mass

0005	OT) (DOTANIOAL NAME	00111011111	001		DELIA DIZO		
CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	REMARKS		
TREES								
Ace-I	21	Acer saccharum 'Legacy'	Legacy Sugar Maple	B & B	2.5"Cal	matched, strong central leader, full		
Bet-n	2	Betula nigra	River Birch	B & B	8` ht.	clump form, 3-5 stems, matched		
Gle-s	17	Gleditsia triacanthos `Imperial`	Imperial Honey Locust	B & B	2.5"Cal	strong central leader, symmetrical, full, matched		
Lir-t	2	Liriodendron tulipifera	Tulip Tree	B & B	2.5"Cal	spring dug, strong central leader, symmetrical full, matched		
Nys-s	18	Nyssa sylvatica 'Haymanred' TM	Red Rage Tupelo	B & B	2.5"Cal	matched, strong central leader		
Pla-b	4	Platanus x acerifolia `Bloodgood`	London Plane Tree	B & B	2.5"Cal	dug in spring		
Tax-d	5	Taxodium distichum	Bald Cypress	B & B	min. 3.5" cal.	minimum 10' height, matched, strong central leader, symmetrical, full		
Ulm-a	1	Ulmus americana `Princeton`	American Elm	B & B	2.5"Cal	matched, strong central leader		
ODNIANE	NITAL TO				,			
ORNAME Ame-x	12	Amelanchier x grandiflora `Autumn Brilliance`	Autumn Brilliance Serviceberry	B & B	min. 8` ht.	clump form, 5-13 stems		
Cer-c	~ 	Cercis canadensis	Eastern Redbud	B & B	min. 6` ht.	clump form, 3-5 stems		
Cra-c	9	Crataegus crus-galli 'Cruzam'	Crusader® Cockspur Hawthorn	B & B	8` ht.	clump form, 3-7 stems		
			отпольной от стану и том					
CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	HEIGHT	REMARKS		
SHRUBS								
Bux-x	32	Buxus x `Winter Gem`	Winter Gem Boxwood	Container	18" ht. min.	space @ 3`-0" o.c.		
Cor-c	9	Cornus sericea `Arctic Fire`	Arctic Fire Red Twig Dogwood	Container	18" ht. min.	space @ 3'-0" o.c.		
Hyd-q	29	Hydrangea quercifolia `Pee Wee`	Pee Wee Oakleaf Hydrangea	Container	18" ht. min.	space @ 3`-0" o.c.		
Pot-f	19	Potentilla fruiticosa `Goldfinger`	Goldfinger Potentilla	Container	18" ht. min.	sapce @ 4`-0" o.c.		
Tax-x	9	Taxus x media `Densiformis`	Dense Yew	container	24"	space @ 3`-0" o.c., allow to mass		
GRASSES	3							
Pan-v	25	Panicum virgatum 'Northwind'	Northwind Switch Grass	pot	#2	space @ 2'-0" o.c.		
		1	1	_ -		- 1 · · · · -		
PERENNI.		Lirione enjects	Crooning Lily Tour	not	#1	anaca @ 15" a a		
Lir-s	33	Liriope spicata	Creeping Lily Turf	pot	#1	space @ 15" o.c.		

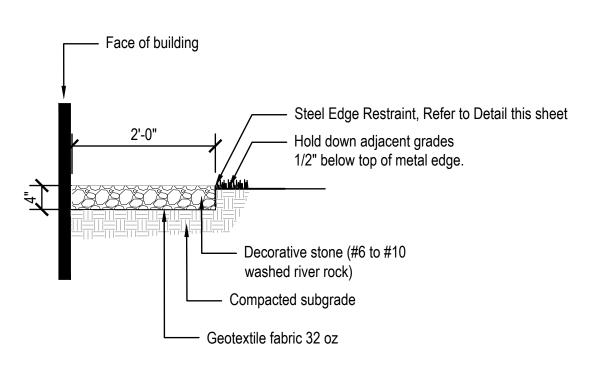






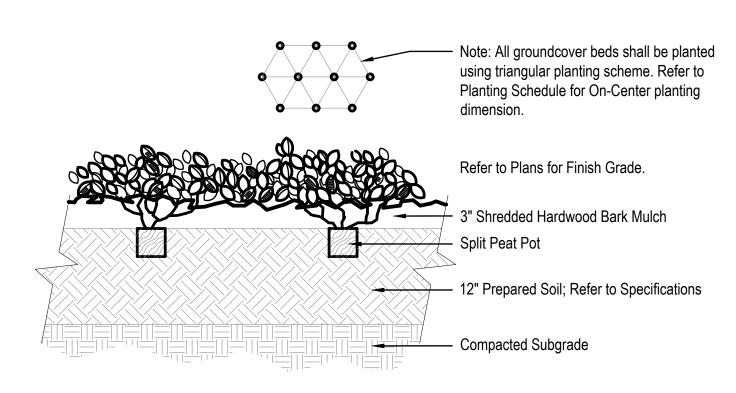




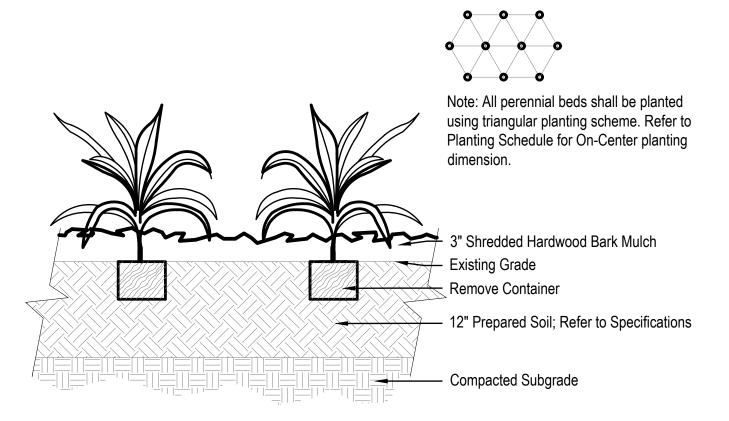


AGGREGATE PAVEMENT, MOW STRIP or DRIP EDGE

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

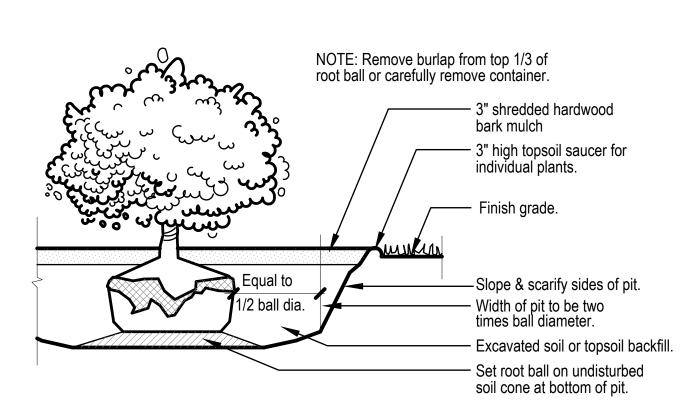






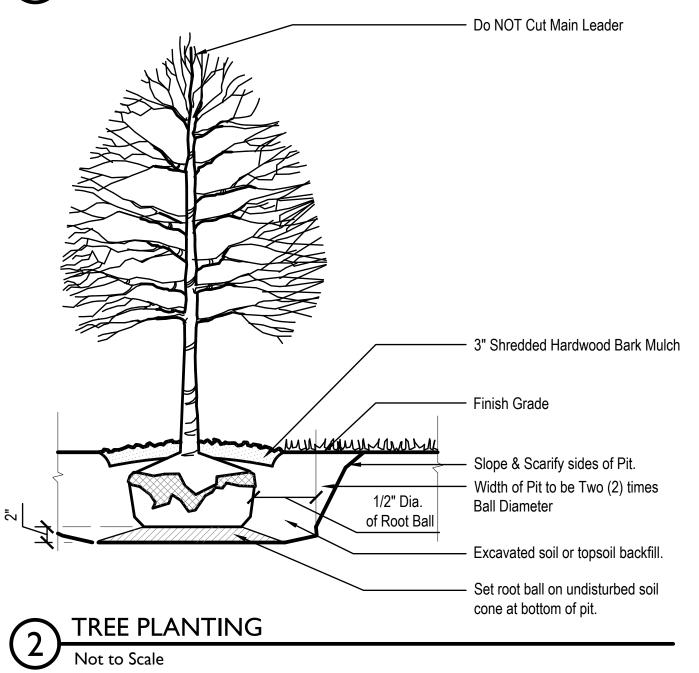
PERENNIAL PLANTING

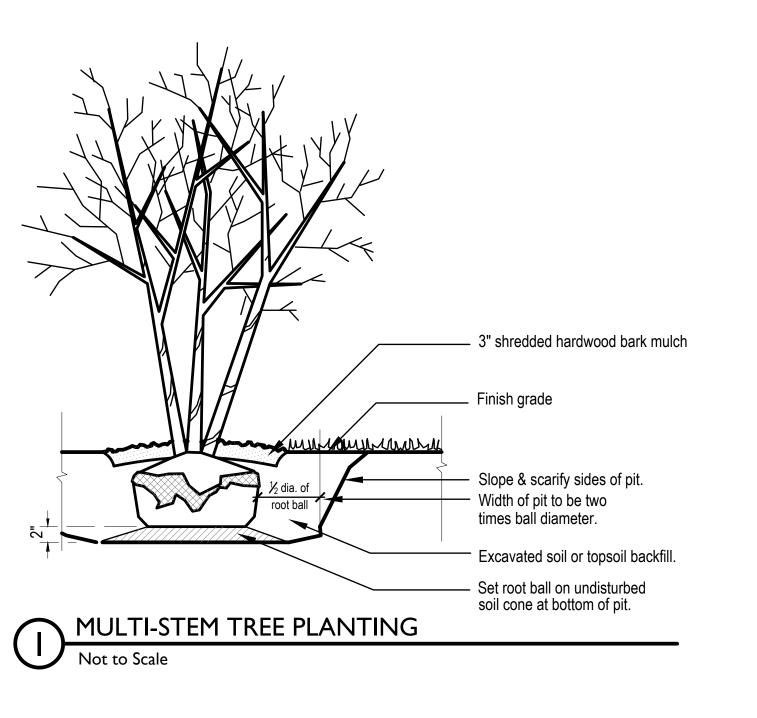
Not to Scale



SHRUB PLANTING

Not to Scale



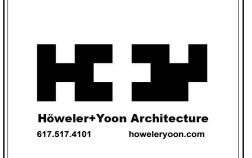




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REVISIONS: ADDENDUM 1 06/10/2025

ISSUE DATE | DRAWN BY | CHECKED BY 05/30/25 MA / LM AP

DRAWING TITLE: **PLANTING DETAILS SCHEDULE**

CERTIFIED BY: 2020-0132 SCAPE ARCHITE EXPIRES 12-31-2025

DRAWING NUMBER **L410**



GENERAL NOTES

- COORDINATE THE WORK OF EACH TRADE WITH THE WORK OF OTHER TRADES. 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
- 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.
- ALL DIMENSIONS ARE FROM CENTERLINE OF STRUCTURE, FINISH FACE OF WALL, FACE OF MASONRY, OR FACE OF EXISTING. ANY DIMENSIONS NOT SHOWN OR DEEMED QUESTIONABLE ARE TO BE VERIFIED BY ARCHITECT. DO NOT SCALE DRAWINGS.
- 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. ALL STEEL STUDS ARE TO BE BRACED ACCORDING TO MANUFACTURER LIMIT
- WHERE INSULATED OR SOUND WALLS EXTEND TO DECK, FILL DECK FLUTES WITH INSULATION/ SOUND ATTENUATION.
- REFER TO PLUMBING PLANS FOR LOCATION OF FLOOR DRAINS. WHERE ACCESS PANELS ARE SHOWN IN TOILET ROOM CHASES, FINAL
- LOCATION SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO 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

- 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.)
- PROVIDE MISCELLANEOUS SUPPORT FOR ALL CEILING SUSPENDED ITEMS. 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.
- ALL DOOR FRAMES SHALL BE LOCATED 4" OFF FINISH WALLS OR 4" OFF MASONRY WALLS UNLESS NOTED OTHERWISE.
- ALL GLASS AT INTERIOR DOOR FRAMES, DOOR LITES AND WINDOW FRAMES IS TO BE 1/4" CLEAR TEMPERED GLASS UNLESS NOTED OTHERWISE. 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
- ALL SLAB-ON-GRADE CONTROL JOINTS TO BE CLEANED AND CAULKED PRIOR TO PLACEMENT OF FLOOR FINISH.

ITEMS NOTED TO ASSURE THAT NO SUCH ITEMS BRIDGE ACROSS THE

- SEE REFLECTED CEILING PLANS FOR BULKHEAD LOCATIONS AND DETAILS. REFER TO MECHANICAL DRAWINGS FOR WALL LOUVER LOCATIONS, SIZES AND 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. PROVIDE FIRE RESISTANT TREATED WOOD BLOCKING SUPPORTS AS
- REQUIRED FOR ALL SURFACE MOUNTED ITEMS. WHERE DISSIMILAR FLOOR MATERIALS MEET, THEY SHALL DO SO UNDER THE CENTERLINE OF THE DOOR UNLESS NOTED OTHERWISE. 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
- BB. ALL DOORS MUST BE INSTALLED WITH AT LEAST THE MINIMUM MANEUVERING CLEARANCE AT THE DOOR APPROACH PER THE MOST CURRENT AMERICANS

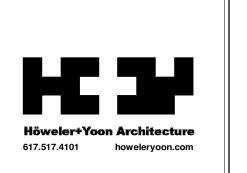
KEY PLAN

CC. BASE FLOOR ELEVATION INDICATED FOR THIS PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USGS DATUM.

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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.
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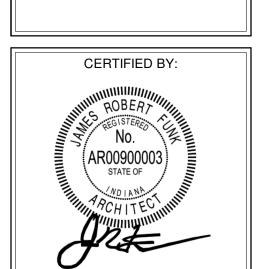
REVISIONS: ADDENDUM #1 06/10/2025

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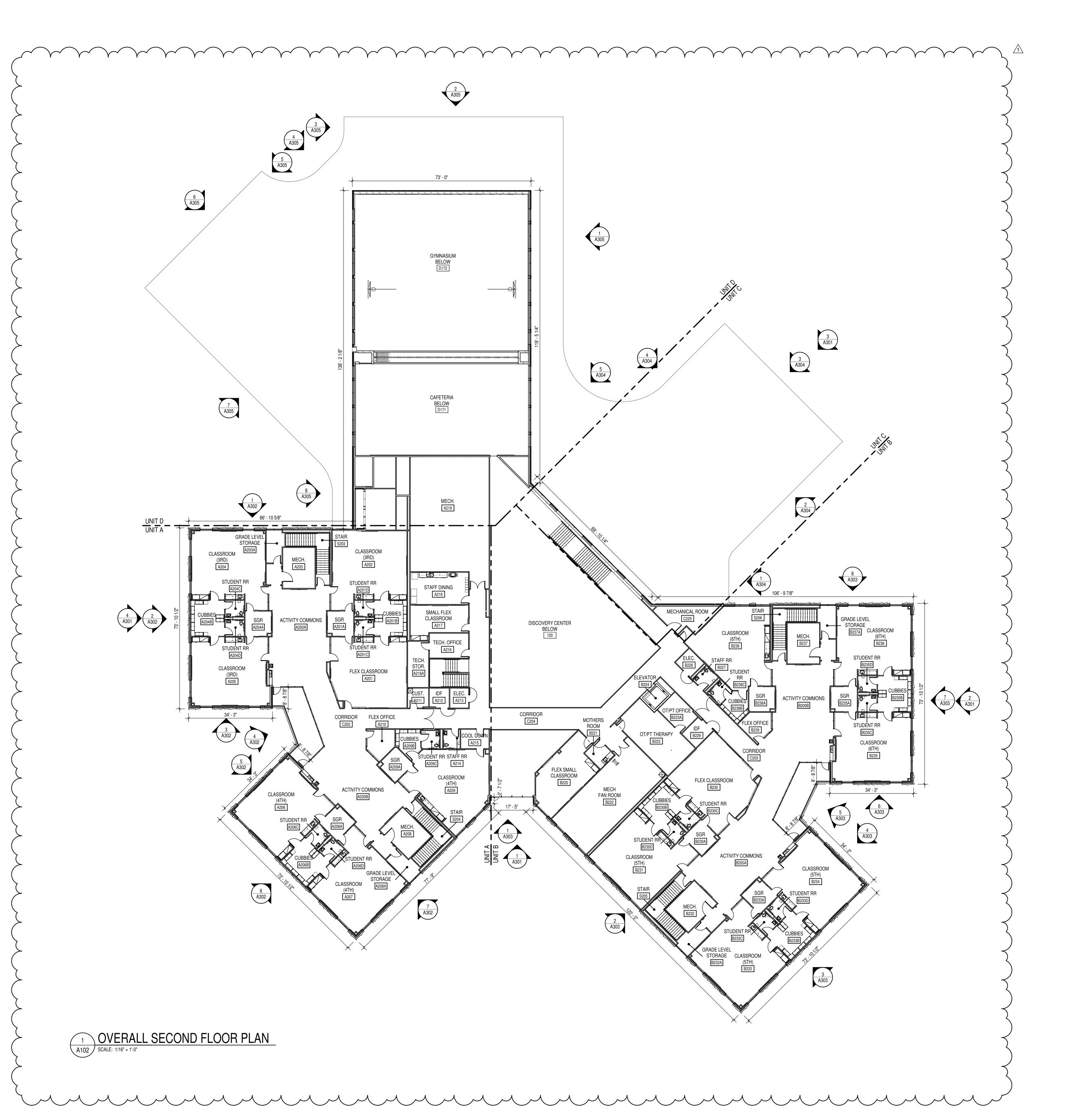
DRAWING TITLE: **OVERALL FIRST** FLOOR PLAN

LNM

05/30/2025



DRAWING NUMBER A101



GENERAL NOTES

- COORDINATE THE WORK OF EACH TRADE WITH THE WORK OF OTHER TRADES. 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
- 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.

ALL DIMENSIONS ARE FROM CENTERLINE OF STRUCTURE, FINISH FACE OF

EXTEND TO DECK. SEE STRUCTURAL FOR TOP SUPPORT DETAIL. WHERE METAL STUDS EXTEND TO DECK, PROVIDE SLIP CONNECTIONS FOR ROOF/

- WALL, FACE OF MASONRY, OR FACE OF EXISTING. ANY DIMENSIONS NOT SHOWN OR DEEMED QUESTIONABLE ARE TO BE VERIFIED BY ARCHITECT. DO NOT SCALE DRAWINGS. REFER TO WALL TYPE SCHEDULE, SHEET A200, TO DETERMINE WHICH WALLS
- FLOOR DEFLECTION. ALL STEEL STUDS ARE TO BE BRACED ACCORDING TO MANUFACTURER LIMIT
- WHERE INSULATED OR SOUND WALLS EXTEND TO DECK, FILL DECK FLUTES WITH INSULATION/ SOUND ATTENUATION. REFER TO PLUMBING PLANS FOR LOCATION OF FLOOR DRAINS.
- WHERE ACCESS PANELS ARE SHOWN IN TOILET ROOM CHASES, FINAL LOCATION SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO
- 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

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.)
- PROVIDE MISCELLANEOUS SUPPORT FOR ALL CEILING SUSPENDED ITEMS. 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. ALL DOOR FRAMES SHALL BE LOCATED 4" OFF FINISH WALLS OR 4" OFF
- MASONRY WALLS UNLESS NOTED OTHERWISE. ALL GLASS AT INTERIOR DOOR FRAMES, DOOR LITES AND WINDOW FRAMES IS
- TO BE 1/4" CLEAR TEMPERED GLASS UNLESS NOTED OTHERWISE. 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 ACROSS THE
- ALL SLAB-ON-GRADE CONTROL JOINTS TO BE CLEANED AND CAULKED PRIOR TO PLACEMENT OF FLOOR FINISH.
- SEE REFLECTED CEILING PLANS FOR BULKHEAD LOCATIONS AND DETAILS. REFER TO MECHANICAL DRAWINGS FOR WALL LOUVER LOCATIONS, SIZES AND 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. PROVIDE FIRE RESISTANT TREATED WOOD BLOCKING SUPPORTS AS
- WHERE DISSIMILAR FLOOR MATERIALS MEET, THEY SHALL DO SO UNDER THE CENTERLINE OF THE DOOR UNLESS NOTED OTHERWISE. APPLY SEALANT AT ALL JUNCTURES BETWEEN DIFFERENT MATERIALS (E.G. MASONRY TO GYPSUM WALL BOARD) UTILIZING THE APPROPRIATE TYPE PER

REQUIRED FOR ALL SURFACE MOUNTED ITEMS.

KEY PLAN

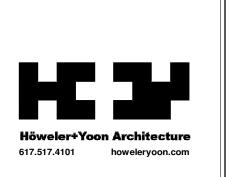
- SPECIFICATIONS. COLOR TO BE SELECTED BY ARCHITECT. AA. APPLY SEALANT AT ALL COUNTERTOPS AND BLACKSPLASHES AT JUNCTURE
- BB. ALL DOORS MUST BE INSTALLED WITH AT LEAST THE MINIMUM MANEUVERING CLEARANCE AT THE DOOR APPROACH PER THE MOST CURRENT AMERICANS WITH DISABILITIES ACT.

CC. BASE FLOOR ELEVATION INDICATED FOR THIS PROJECT IS 100'-0". REFER TO

SITE PLAN FOR CORRELATION TO USGS DATUM.

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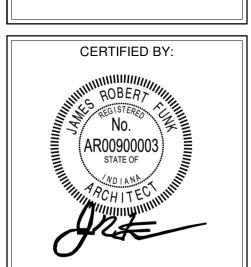
ADDENDUM #1 06/10/2025

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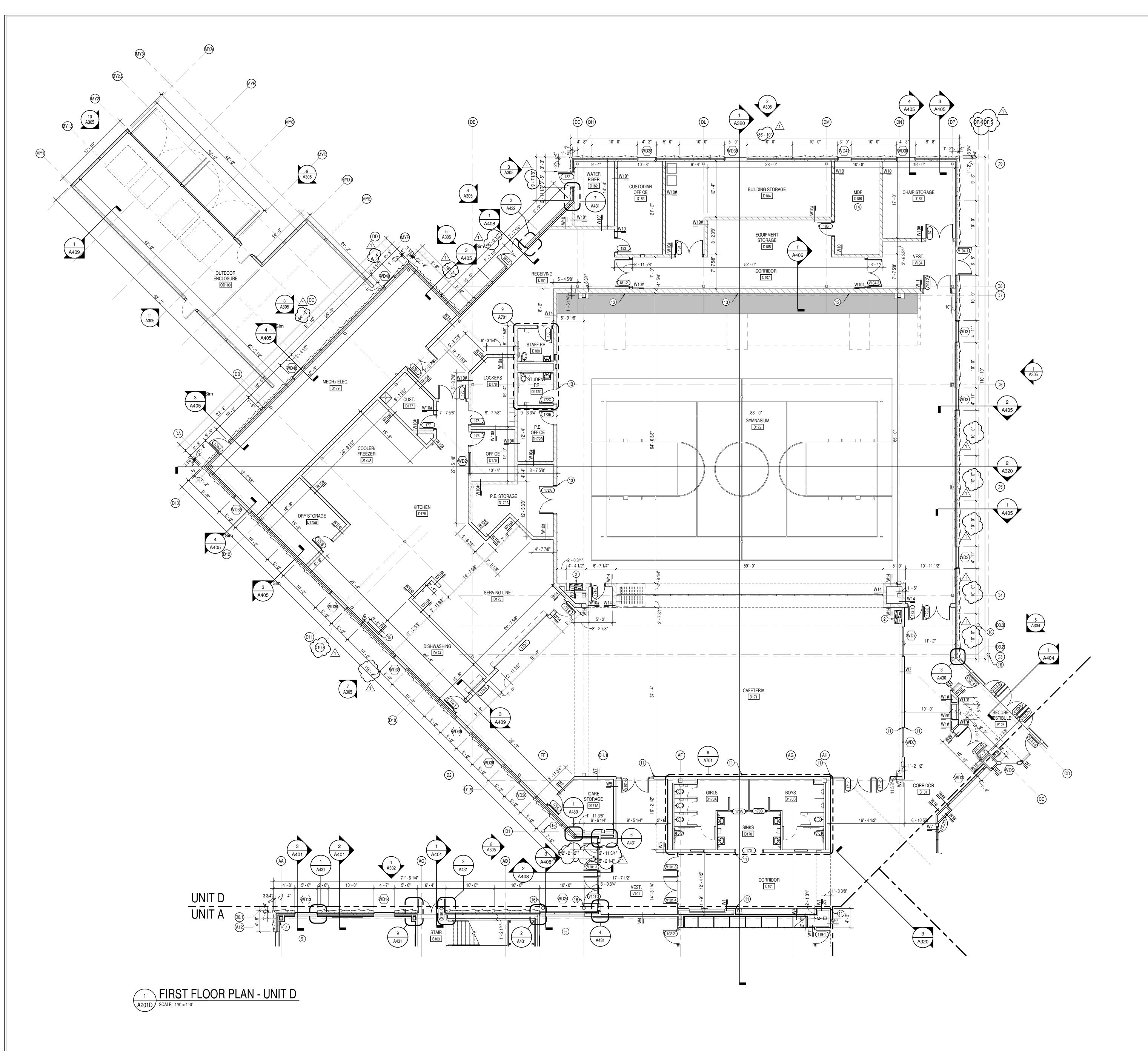
LNM

05/30/2025

DRAWING TITLE: **OVERALL** SECOND FLOOR



DRAWING NUMBER



GENERAL NOTES

- COORDINATE THE WORK OF EACH TRADE WITH THE WORK OF OTHER TRADES. 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
- 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.
- ALL DIMENSIONS ARE FROM CENTERLINE OF STRUCTURE, FINISH FACE OF WALL, FACE OF MASONRY, OR FACE OF EXISTING. ANY DIMENSIONS NOT SHOWN OR DEEMED QUESTIONABLE ARE TO BE
- VERIFIED BY ARCHITECT. DO NOT SCALE DRAWINGS. 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.
- ALL STEEL STUDS ARE TO BE BRACED ACCORDING TO MANUFACTURER LIMIT HEIGHT (L/240). WHERE INSULATED OR SOUND WALLS EXTEND TO DECK, FILL DECK FLUTES
- WITH INSULATION/ SOUND ATTENUATION. REFER TO PLUMBING PLANS FOR LOCATION OF FLOOR DRAINS.
- WHERE ACCESS PANELS ARE SHOWN IN TOILET ROOM CHASES, FINAL LOCATION SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO
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- M. THERE SHALL BE PERIMETER INSULATION CONTINUOUS AROUND THE ENTIRE PERIMETER OF THE BUILDING EXTENDING 2'-0" MINIMUM (R-15 MIN.)
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- ALL GLASS AT INTERIOR DOOR FRAMES, DOOR LITES AND WINDOW FRAMES IS TO BE 1/4" CLEAR TEMPERED GLASS UNLESS NOTED OTHERWISE. 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
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ITEMS NOTED TO ASSURE THAT NO SUCH ITEMS BRIDGE ACROSS THE

- SEE REFLECTED CEILING PLANS FOR BULKHEAD LOCATIONS AND DETAILS. REFER TO MECHANICAL DRAWINGS FOR WALL LOUVER LOCATIONS, SIZES AND SEE A800 SERIES DRAWINGS FOR FINISH SCHEDULE AND PLANS.
- SEE A900 SERIES DRAWINGS FOR EQUIPMENT SCHEDULE AND PLANS. PROVIDE BLOCKING IN STUD WALLS AND/OR GROUTED MASONRY CORES AS REQUIRED TO SUPPORT EQUIPMENT. PROVIDE FIRE RESISTANT TREATED WOOD BLOCKING SUPPORTS AS
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CLEARANCE AT THE DOOR APPROACH PER THE MOST CURRENT AMERICANS

- AA. APPLY SEALANT AT ALL COUNTERTOPS AND BLACKSPLASHES AT JUNCTURE BB. ALL DOORS MUST BE INSTALLED WITH AT LEAST THE MINIMUM MANEUVERING
- CC. BASE FLOOR ELEVATION INDICATED FOR THIS PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USGS DATUM.

PLAN NOTES

- ALIGN FINISH FACES.
- WALL MOUNTED WATER COOLERS HI-LO ADA TYPE WITH BOTTLE FILLER. SEE
- PLUMBING DRAWINGS. ADA WALL MOUNTED WATER COOLER WITH BOTTLE FILLER. MOUNT AT 32" A.F.F.
- SEE PLUMBING DRAWINGS. WALL MOUNTED WATER COOLER WITH BOTTLE FILLER.MOUNT AT 42" A.F.F. SEE PLUMBING DRAWINGS. 5 LOW ROOF - SEE A120
- 6 3'-6"H GLASS RAILING SYSTEM. CONSTRUCT COLUMN WRAP WITH WALL TYPE W1*#. CONSTRUCT AS TIGHT AS
- POSSIBLE TO COLUMN. SENSORY SWING ATTACHMENT - SEE STRUCTURAL.
- TEACHER DESK LOCATION. 10 CYCLORAMA WALL SYSTEM, 9'-0" HIGH WITH 18" RADIUS COVE BASE AND 24"
- RADIUS CORNER. GYPSUM WALL BOARD TO RECEIVE LEVEL 5 FINISH FOR GREEN WALL - SEE SPEC SECTION 11 62 00 FOR MORE INFORMATION.
- GYPSUM BOARD CONTROL JOINT SEE SPEC SECTION 09 29 00 FOR MORE INFORMATION.
- 12 CONSTRUCT 2'-4" x 10" COLUMN WRAP WITH WALL TYPE W1*#. MASONRY CONTROL JOINT - SEE SPEC SECTION 04 20 00 FOR MORE INFORMATION.
- 14 HEIGHT OF PERIMETER WALLS IN THIS ROOM TO BE 12'-0" A.F.F. 15 SEE FOOD SERVICE DRAWINGS FOR WALL CAP AT THIS LOCATION.
- 16 EXTERIOR COLUMN. PAINT CUSTOM COLOR TO MATCH COLORADO GOLD METALLIC. SEE SPECIFICATION SECTION 09 96 00, TYP.

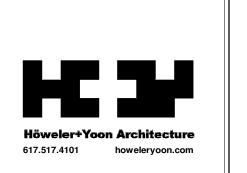
KEY PLAN



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F 2

the trade contractors shall furnish all items required for the proper execution and completion of the work. REVISIONS: ADDENDUM #1 06/10/2025

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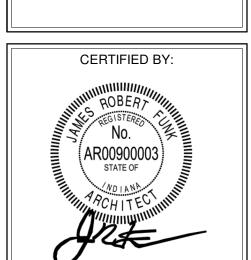
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05/30/2025 LNM

DRAWING TITLE: FIRST FLOOR PLAN - UNIT D



DRAWING NUMBER A201D



GENERAL REFLECTED CEILING PLAN NOTES

- A. SEE THE ELECTRICAL DRAWINGS FOR SIZES, TYPES, AND QUANTITIES OF LIGHT FIXTURES, SPEAKERS, SMOKE DETECTORS, AND OTHER
- CEILING MOUNTED ÉLECTRICAL DEVICES.

 B. SEE THE MECHANICAL DRAWINGS FOR SIZES, TYPES, AND QUANTITIES OF DIFFUSERS, GRILLES, AND OTHER MECHANICAL CEILING MOUNTED
- DEVICES.

 C. PROVIDE, FIELD LOCATE AND INSTALL 16"x16" FLUSH ACCESS PANELS AT ALL MECHANICAL AND PLUMBING PIPING VALVE LOCATIONS ABOVE SUSPENDED GYPSUM BOARD CEILINGS. SEE THE MECHANICAL,
- AND PLUMBING DRAWINGS FOR LOCATIONS.

 D. SEE THE STRUCTURAL DRAWINGS FOR MASONRY WALLS USED FOR SHEAR WALLS THAT ARE REQUIRED TO EXTEND TO DECK/STRUCTURE ABOVE. PROVIDE BRACING FOR ALL MASONRY WALLS NOT EXTENDING TO THE DECK/STRUCTURE AS DETAILED ON STRUCTURAL DRAWINGS.
- STRUCTURE/DECK ABOVE SHALL RECEIVE DIAGONAL METAL STUD
 BRACING AT MAXIMUM 4'-0" O.C.

 F. THE SUSPENDED ACOUSTICAL TILE CEILING GRID AS SHOWN ON THESE
 DRAWINGS IS REPRESENTATIONAL. THE CEILING GRID IS TO BROKEN AS

E. METAL STUDS WALLS SHALL BE ATTACHED TO THE STRUCTURE ABOVE WITH SLIP CONNECTORS. STUD WALLS NOT EXTENDING TO THE

- DRAWINGS IS REPRESENTATIONAL. THE CEILING GRID IS TO BROKEN AS REQUIRED AT LIGHT FIXTURES, PROJECTION SCREENS, ETC.

 G. ALL GYPSUM CEILINGS AND BULKHEADS ARE TO BE PAINTED (P--) UNLESS NOTED OTHERWISE. PAINT COLORS TO BE REFERENCED ON THE A800
- SERIES FINISH LEGEND.

 H. SEE MECHANICAL, PLUMBING AND ELECTRICAL DOCUMENTS FOR ADDITIONAL CEILING WORK REQUIRED BY NEW MEP WORK.

REFLECTED CEILING LEGEND

LED LIGHT FIXTURES, RECESSED OR SURFACED MOUNTED, SEE ELECTRICAL DRAWINGS DOWNLIGHT/HIGH BAY LIGHT FIXTURE; SEE ELECTRICAL

RETURN/EXHAUST GRILL; SEE MECHANICAL DRAWINGS

SUSPENDED ACOUSTICAL LAY-IN CEILING

SUPPLY AIR GRILL; SEE MECHANICAL DRAWINGS

LINEAR SLOT SUPPLY AIR GRILL; SEE MECHANICAL DRAWINGS

DESCRIPTION: SQUARE EDGE
COLOR: WHITE SIZE: 24" x 24" x 3/4"
LOCATION: CLASSROOMS, CORRIDORS, OFFICES, ETC.

SUSPENDED ACOUSTICAL LAY-IN CEILING
MFG: ARMSTRONG MODEL #1935
STYLE: ULTIMA HEALTH ZONE
DESCRIPTION: SQUARE EDGE

MFG: ARMSTRONG MODEL #1713
STYLE: SCHOOL ZONE HIGH CAC, HIGH NRC

COLOR: WHITE SIZE: 2' x 2' x 3/4"
LOCATION: RESTROOMS/KITCHENS

SUSPENDED GYPSUM WALLBOARD CEILING SYSTEM
USE 5/8" WALLBOARD

PAINT: (P1) UNLESS NOTED OTHERWISE ON PLAN. REFER TO

GYPSUM WALLBOARD BULKHEAD
PAINT: (P1) UNLESS NOTED OTHERWISE ON PLAN. REFER TO
FINISH LEGEND ON A800.

FINISH LEGEND ON A800.

SUSPENDED WOOD CEILING
MFG: ARMSTRONG
STYLE: WOODWORKS GRILLE FORTE VENEER CEILING PANELS
DESCRIPTION: PROVIDE 4" PERIMETER TRIM AND BLACK FINE
FISSURED INFILL PANELS. BLACK FINE FISSURED INFILL PANELS
AT ACTIVITY COMMONS ONLY.
COLOR: CONSTANTS REDUX WOOD WHEAT (CRW) SIZE: 12" x 96",
4" SLAT HEIGHT, 3 SLATS PER PANEL
LOCATION: ACTIVITY COMMONS, RECEPTION

SUSPENDED METAL CEILING
MFG: ARMSTRONG METALWORKS LINEAR
STYLE: METALWORKS LINEAR
DESCRIPTION: MICROPERFORATED, PROVIDE 4" METAL EDGE
TRIM AT PERIMETER
COLOR: WHITE (WH) SIZE: 96" x 4" x 5/8"
LOCATION: DISCOVERY CENTER

ACOUSTIC CEILING BAFFLE SYSTEM
MFG: ARMSTRONG
STYLE: SOUNDSCAPES BLADES
COLOR: VANILLA ASH SIZE: 28" x 94" W/ CUSTOM SPACING
LOCATION: CAFETERIA

SUSPENDED ACOUSTICAL LAY-IN CEILING
MFG: ARMSTRONG
STYLE: LYRA PLANT BASED
DESCRIPTION: SQUARE TEGULAR 9/16
COLOR: WHITE (WH), CUSTOM TO MATCH SW7547 (P2) (REFER TO PLAN) SIZE: 12" x 96"
LOCATION: NEIGHBORHOOD ENTRANCES

COMPOSITE METAL SOFFIT PANEL
COLOR: GRAPHITE MICA
SEE SECTIONS FOR MORE INFORMATION

COMPOSITE METAL SOFFIT PANEL
COLOR: COLORADO GOLD METALLIC
SEE SECTIONS FOR MORE INFORMATION

EXPOSED STRUCTURE
NO PAINTING EXCEPT AS REQUIRED FOR MEP
(TYPICALLY FOR CODING OF SYSTEMS)

EXP. PT. EXPOSED STRUCTURE - PAINTED (P7); REFER TO FINISH LEGEND ON A800

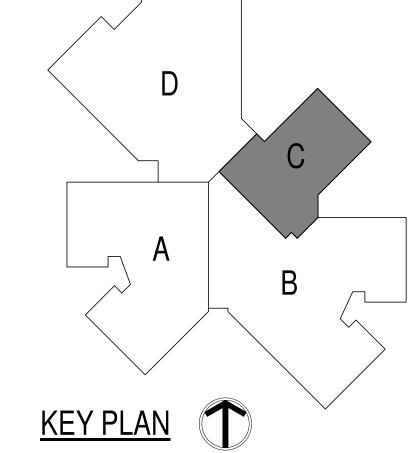
CEILING ELEVATION MARK ABOVE FINISHED FLOOR (AT THAT LOCATION IF MULTIPLE FLOOR LEVELS ARE PRESENT)

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CEILING PAINT; REFER TO FINISH LEGEND ON A800

RCP NOTES

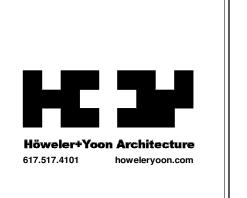
- 1 BULKHEAD. SEE DETAIL 1/A213.
- 2 BULKHEAD. SEE DETAIL 2/A213.
 3 BULKHEAD. SEE DETAIL 3/A213.
 4 BULKHEAD. SEE DETAIL 4/A213.
- 5 BULKHEAD. SEE DETAIL 5/A213.
 6 BULKHEAD. SEE DETAIL 6/A213.
 7 BULKHEAD. SEE DETAIL 7/A213.
 8 BULKHEAD. SEE DETAIL 8/A213
- 8 BULKHEAD. SEE DETAIL 8/A213.
 9 ALIGN FINISH FACES.
 10 PANEL JOINT, TYPICAL.
 11 SEE DETAIL 9/A213.
- 12 ALIGN BOTTOM OF BULKHEAD TO TOP OF ADJACENT HORIZONTAL CONTROL JOINT
 13 CEILING TILE AND GRID TO MATCH SHERWIN WILLIAMS SW7547 SANDBAR.
- 13 CEILING TILE AND GRID TO MATCH SHERWIN WILLIAMS SW7547 SANDBAR.





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MAPLE

REVISIONS:

ISSUE DATE DRAWN BY CHECKED BY 05/30/2025 LNM ECN

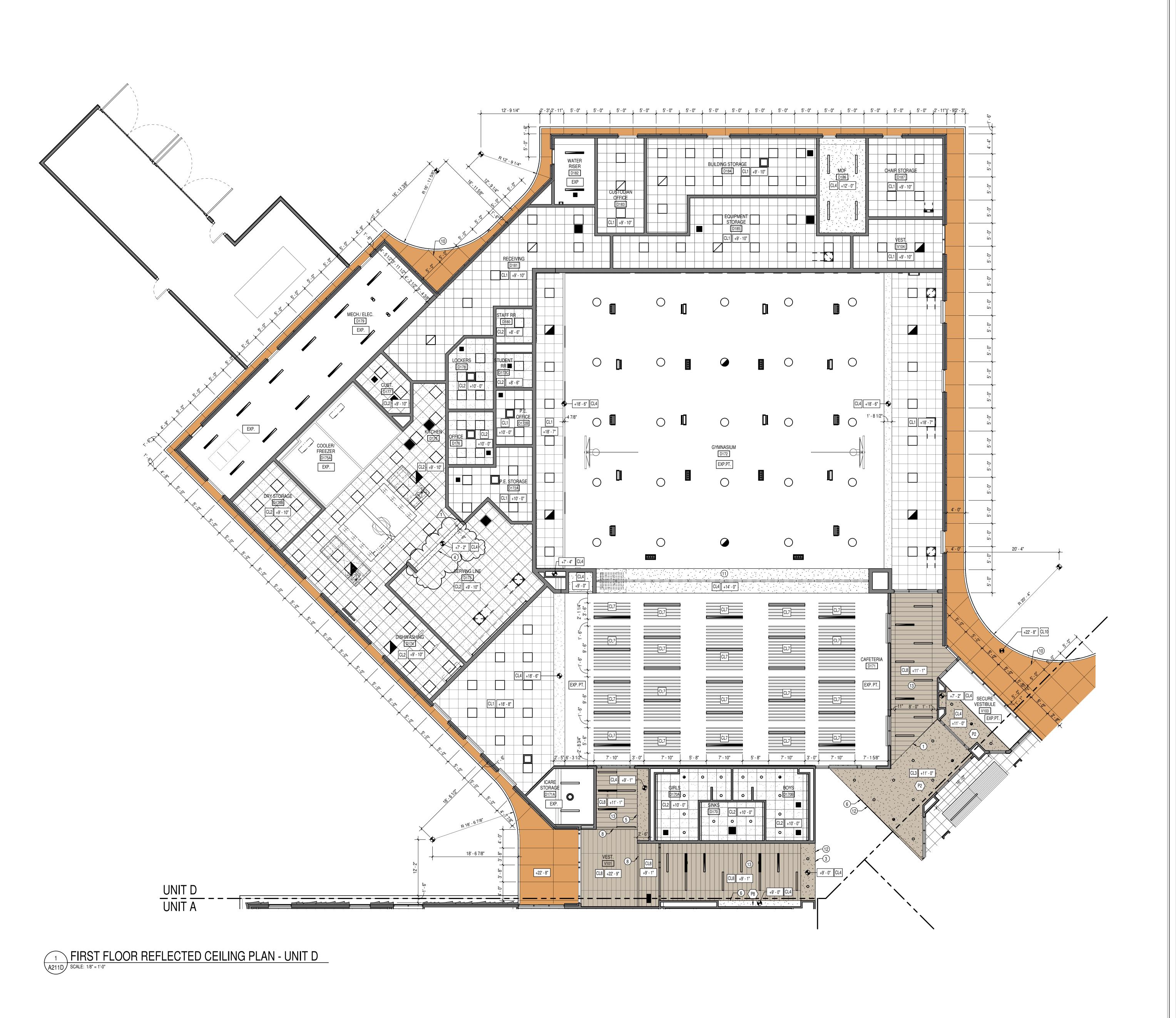
FIRST FLOOR
REFLECTED
CEILING PLAN -



A211C

PROJECT NUMBER

2024022



GENERAL REFLECTED CEILING PLAN NOTES

- A. SEE THE ELECTRICAL DRAWINGS FOR SIZES, TYPES, AND QUANTITIES OF LIGHT FIXTURES, SPEAKERS, SMOKE DETECTORS, AND OTHER
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- BRACING AT MAXIMUM 4'-0" O.C.

 F. THE SUSPENDED ACOUSTICAL TILE CEILING GRID AS SHOWN ON THESE DRAWINGS IS REPRESENTATIONAL. THE CEILING GRID IS TO BROKEN AS REQUIRED AT LIGHT FIXTURES, PROJECTION SCREENS, ETC.
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REFLECTED CEILING LEGEND

LED LIGHT FIXTURES, RECESSED OR
SURFACED MOUNTED, SEE ELECTRICAL DRAWINGS

DOWNLIGHT/HIGH BAY LIGHT FIXTURE; SEE ELECTRICAL
DRAWINGS

RETURN/EXHAUST GRILL; SEE MECHANICAL DRAWINGS

SUPPLY AIR GRILL; SEE MECHANICAL DRAWINGS

LINEAR SLOT SUPPLY AIR GRILL; SEE MECHANICAL DRAWINGS

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DESCRIPTION: SQUARE EDGE
COLOR: WHITE SIZE: 24" x 24" x 3/4"
LOCATION: CLASSROOMS, CORRIDORS, OFFICES, ETC.

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STYLE: ULTIMA HEALTH ZONE
DESCRIPTION: SQUARE EDGE
COLOR: WHITE SIZE: 2' x 2' x 3/4"
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J USE 5/8" WALLBOARD

PAINT: (P1) UNLESS NOTED OTHERWISE ON PLAN. REFER TO FINISH LEGEND ON A800.

GYPSUM WALLBOARD BULKHEAD

SUSPENDED GYPSUM WALLBOARD CEILING SYSTEM

CL4 PAINT: (P1) UNLESS NOTED OTHERWISE ON PLAN. REFER TO FINISH LEGEND ON A800.

SUSPENDED WOOD CEILING

MFG: ARMSTRONG
STYLE: WOODWORKS GRILLE FORTE VENEER CEILING PANELS
DESCRIPTION: PROVIDE 4" PERIMETER TRIM AND BLACK FINE
FISSURED INFILL PANELS. BLACK FINE FISSURED INFILL PANELS
AT ACTIVITY COMMONS ONLY.
COLOR: CONSTANTS REDUX WOOD WHEAT (CRW) SIZE: 12" x 96",
4" SLAT HEIGHT, 3 SLATS PER PANEL
LOCATION: ACTIVITY COMMONS, RECEPTION

SUSPENDED METAL CEILING
MFG: ARMSTRONG METALWORKS LINEAR
STYLE: METALWORKS LINEAR
DESCRIPTION: MICROPERFORATED, PROVIDE 4" METAL EDGE
TRIM AT PERIMETER
COLOR: WHITE (WH) SIZE: 96" x 4" x 5/8"
LOCATION: DISCOVERY CENTER

ACOUSTIC CEILING BAFFLE SYSTEM
MFG: ARMSTRONG
STYLE: SOUNDSCAPES BLADES
COLOR: VANILLA ASH SIZE: 28" x 94" W/ CUSTOM SPACING
LOCATION: CAFETERIA

SUSPENDED ACOUSTICAL LAY-IN CEILING
MFG: ARMSTRONG
STYLE: LYRA PLANT BASED
DESCRIPTION: SQUARE TEGULAR 9/16
COLOR: WHITE (WH), CUSTOM TO MATCH SW7547 (P2) (REFER TO PLAN) SIZE: 12" x 96"
LOCATION: NEIGHBORHOOD ENTRANCES

COMPOSITE METAL SOFFIT PANEL
COLOR: GRAPHITE MICA
SEE SECTIONS FOR MORE INFORMATION

COMPOSITE METAL SOFFIT PANEL
COLOR: COLORADO GOLD METALLIC
SEE SECTIONS FOR MORE INFORMATION

EXPOSED STRUCTURE
NO PAINTING EXCEPT AS REQUIRED FOR MEP
(TYPICALLY FOR CODING OF SYSTEMS)

EXP. PT. EXPOSED STRUCTURE - PAINTED (P7); REFER TO FINISH LEGEND ON A800

CEILING ELEVATION MARK ABOVE FINISHED FLOOR (AT THAT LOCATION IF MULTIPLE FLOOR LEVELS ARE PRESENT)

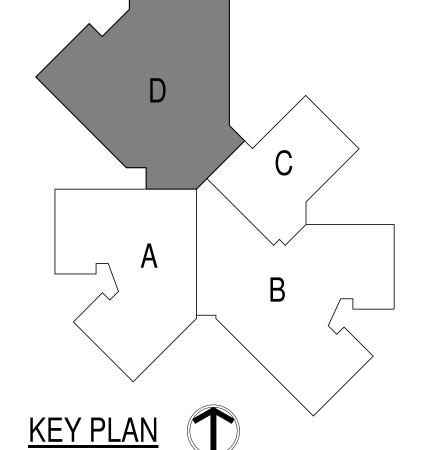
CEILING PAINT; REFER TO FINISH LEGEND ON A800

RCP NOTES

- 1 BULKHEAD. SEE DETAIL 1/A213. 2 BULKHEAD. SEE DETAIL 2/A213. 3 BULKHEAD. SEE DETAIL 3/A213.
- 4 BULKHEAD. SEE DETAIL 4/A213.
 5 BULKHEAD. SEE DETAIL 5/A213.
 6 BULKHEAD. SEE DETAIL 6/A213.
- 7 BULKHEAD. SEE DETAIL 7/A213.
 8 BULKHEAD. SEE DETAIL 8/A213.
 9 ALIGN FINISH FACES.

10 PANEL JOINT, TYPICAL.

SEE DETAIL 9/A213.
ALIGN BOTTOM OF BULKHEAD TO TOP OF ADJACENT HORIZONTAL CONTROL JOINT
CEILING TILE AND GRID TO MATCH SHERWIN WILLIAMS SW7547 SANDBAR.





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ROVE ELEMENTARY
S BLVD, COLUMBUS, IN 47201

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MAPLE

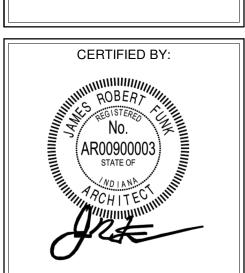
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05/30/2025

FIRST FLOOR
REFLECTED
CEILING PLAN -



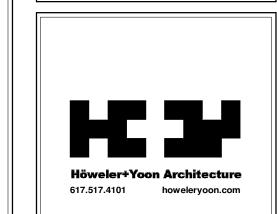
DRAWING NUMBER
A211D

PROJECT NUMBER

2024022

- 1 ARCHITECTURAL PRECAST CONCRETE PANEL (03 45 00-A)
- 2 COMPOSITE METAL FASCIA PANEL JLR CHAMPAGNE METALLIC (07 42 43-A) 3 COMPOSITE METAL WALL PANEL - GRAPHITE MICA (07 42 43-A)
- 4 PRESSURE PLATE W/ MULLION CAP PAINT CUSTOM COLOR TO MATCH COLORADO GOLD METALLIC (08 44
- 5 4 1/2" ALUMINUM STOREFRONT ASSEMBLY W/ 1" INSULATED GLAZING PAINT CUSTOM COLOR TO MATCH
- GRAPHITE MICA (08 41 13-A) 6 7 1/2" ALUMINUM CURTAINWALL SYSTEM W/ 1" INSULATED GLAZING - PAINT CUSTOM COLOR TO MATCH
- 7 1" INSULATED GLAZING SPANDREL PANEL 8 WIDE STILE ALUMINUM ENTRY DOOR - PAINT CUSTOM COLOR TO MATCH GRAPHITE MICA (08 41 13-B)
- 9 HOLLOW METAL DOOR AND FRAME SEE SCHEDULE 10 MANUFACTURED ROOF FASCIA - CUSTOM COLOR TO MATCH JLR CHAMPAGNE METALLIC (07 71 00-C)
- 11 COLUMN PAINT CUSTOM COLOR TO MATCH COLORADO GOLD METALLIC (09 91 13). 12 48" HIGH GLASS GUARDRAIL SYSTEM W/ 2X2 ALUMINUM CAP (05 73 00-F)
- 13 ALUMINUM ENTRY DOOR (08 41 13-C)
- 14 COMPOSITE METAL WALL PANEL JLR CHAMPAGNE METALLIC (07 42 43-A)
- 15 EXTERIOR ROOF ACCESS LADDER. O'KEEFE'S 503A OR APPROVED EQUAL. 16 4 1/2" ALUMINUM STOREFRONT ASSEMBLY W/ 1" INSULATED GLAZING - CLEAR ANODIZED (08 41 13-A)
- 17 FORMED METAL WALL PANEL CUSTOM COLOR TO MATCH GRAPHITE MICA (07 42 13)
- 18 MANUFACTURED COPING CUSTOM COLOR TO MATCH GRAPHITE MICA (07 71 00-A)
- 19 METAL SWING GATE (32 31 19)

GRAPHITE MICA (08 44 13-A)



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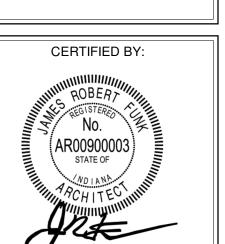
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DRAWING TITLE: **ENLARGED** BUILDING **ELEVATIONS** -UNIT C



DRAWING NUMBER A304

PROJECT NUMBER 2024022

ELEVATION NOTES

1 UNIT C ENLARGED ELEVATION - EAST
A304 SCALE: 1/8" = 1'-0"

WD28

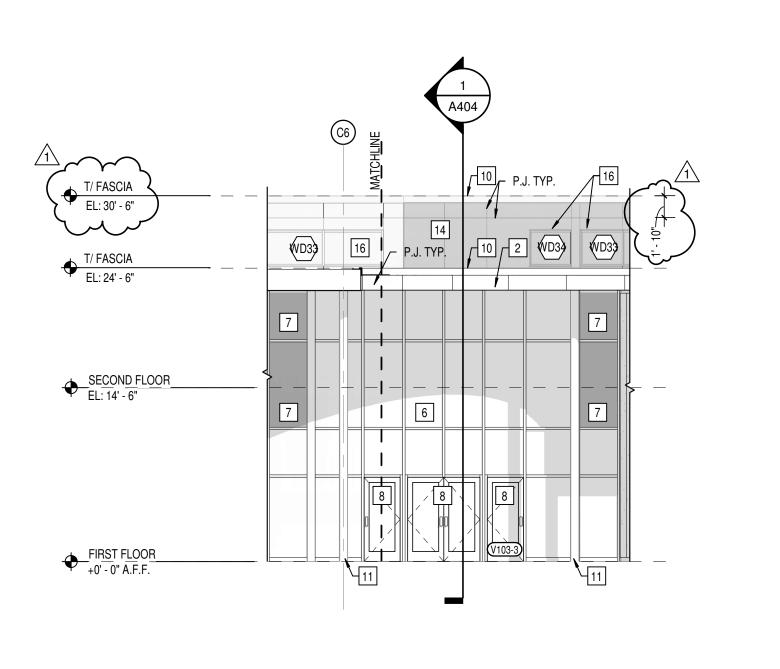
T/ FASCIA EL: 24' - 6"

SECOND FLOOR
EL: 14' - 6"

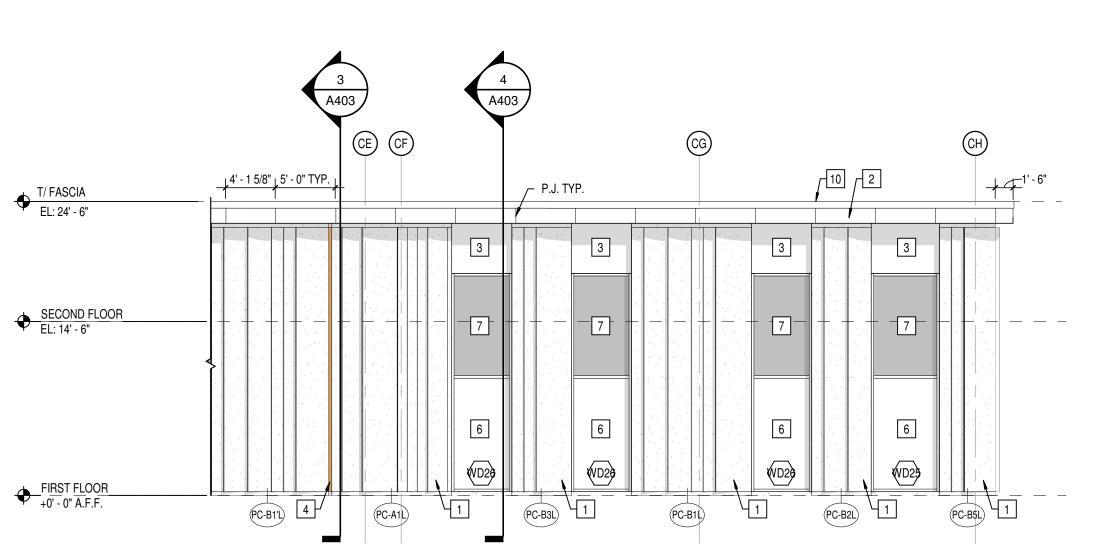
FIRST FLOOR +0' - 0" A.F.F.

4 UNIT C ENLARGED ELEVATION - NORTHWEST
A304 SCALE: 1/8" = 1'-0"

PC-B1L)



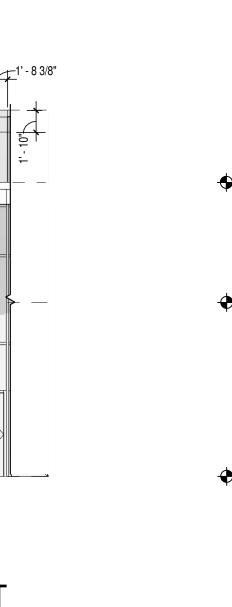


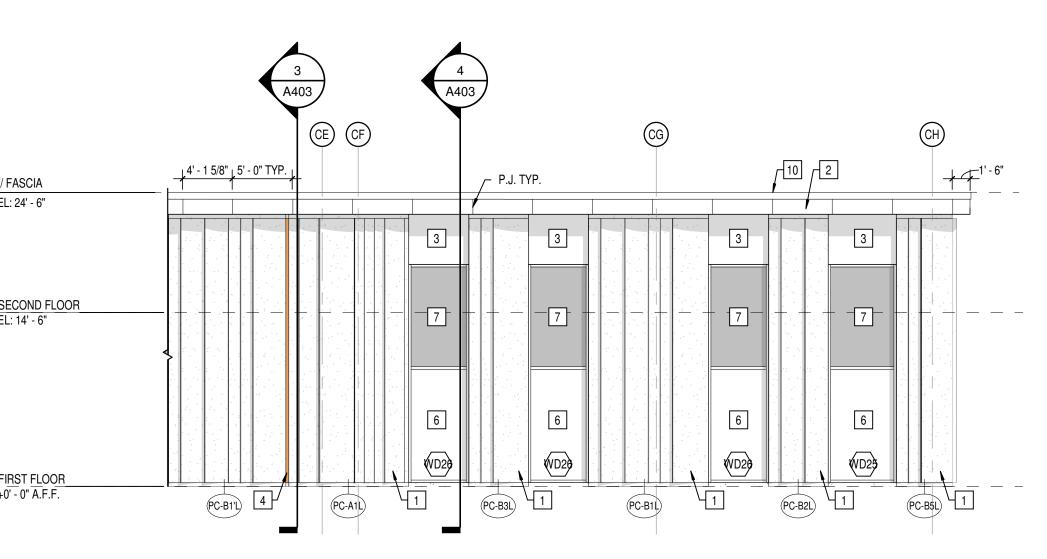


T/ FASCIA EL: 24' - 6"

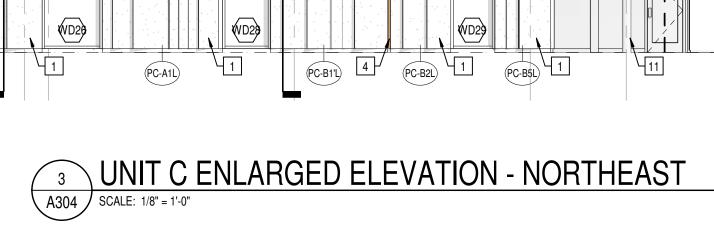
SECOND FLOOR
EL: 14' - 6"

FIRST FLOOR +0' - 0" A.F.F.









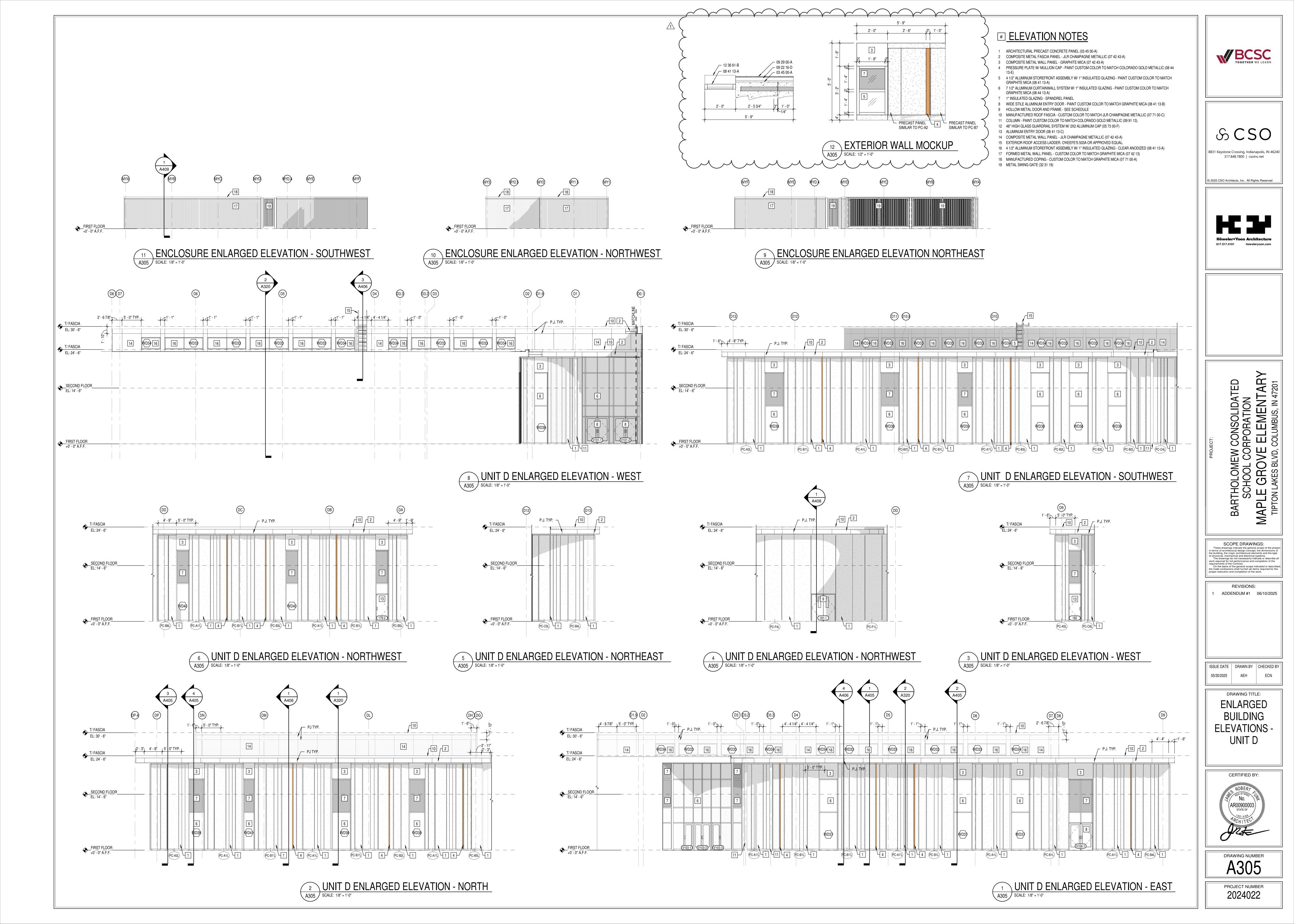
16 (VD3)2

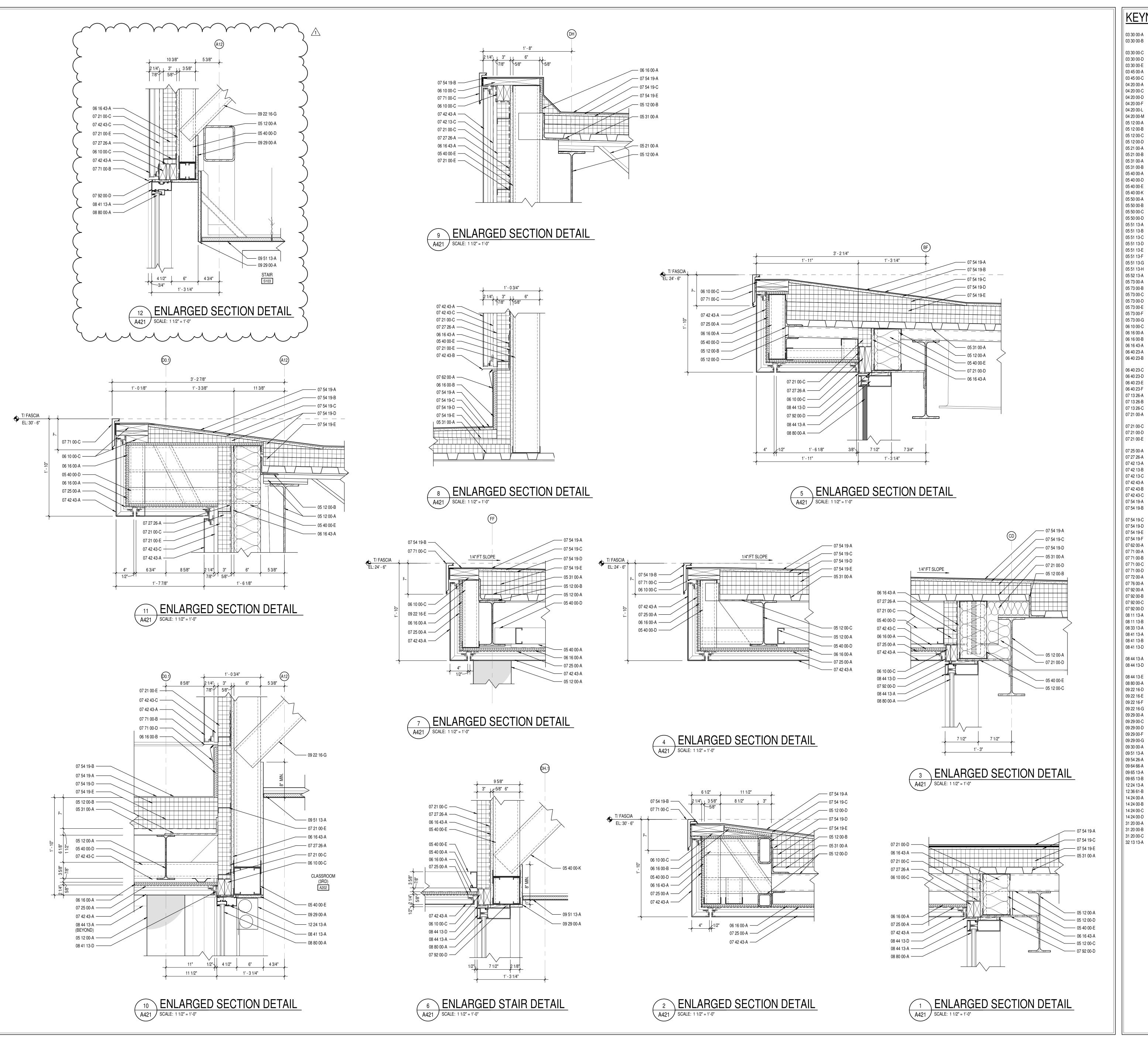
PC-A1L

T/ FASCIA EL: 30' - 6"

T/ FASCIA
EL: 24' - 6"

FIRST FLOOR +0' - 0" A.F.F.





KEYNOTE LEGEND

WATERSTOP 03 30 00-A CONCRETE SLAB OVER VAPOR BARRIER ON DRAINAGE FILL. SEE 03 30 00-B STRUCTURAL CONCRETE SLAB ON METAL DECK- SEE STRUCTURAL CONCRETE FOUNDATION- SEE STRUCTURAL CONCRETE FOOTING- SEE STRUCTURAL ARCHITECTURAL PRECAST CONCRETE PANEL CONNECTION BY PRECAST SUPPLIER GROUT CORE SOLID

CONCRETE MASONRY UNIT

04 20 00-D BULLNOSE UNIT 04 20 00-F BOND BEAM MASONRY UNIT 04 20 00-L 8" CONCRETE MASONRY UNIT 10" CONCRETE MASONRY UNIT 04 20 00-M 05 12 00-A

STRUCTURAL STEEL FRAMING MEMBER- SEE STRUCTURAL 05 12 00-B STEEL ANGLE- SEE STRUCTURAL 05 12 00-C STEEL BENT PLATE- SEE STRUCTURAL

05 12 00-D STEEL TUBE- SEE STRUCTURAL STEEL JOIST- SEE STRUCTURAL 05 21 00-A 05 21 00-B STEEL JOIST GIRDER- SEE STRUCTURAL METAL ROOF DECKING- SEE STRUCTURAL METAL FLOOR DECKING- SEE STRUCTURAL 05 31 00-B 7/8 16 GA. FURRING (HAT) CHANNEL 05 40 00-A 05 40 00-D 3 5/8 GALVANIZED STEEL STUDS (16 GA. MIN.

6 GALVANIZED STEEL STUDS (16 GA. MIN.) 05 40 00-K DIAGONAL BRACING AS REQUIRED MISCELLANEOUS STEEL - SEE STRUCTURAL 05 50 00-A 05 50 00-B PRE-MANUFACTURED ALUMINUM ACCESS LADDER PRE-MANUFACTURED ALUMINUM SHIPS LADDER 05 50 00-C ELEVATOR HOIST BEAM- COORDINATE WITH ELEVATOR MANUFACTURER 05 50 00-D MANUFACTURED STEEL FRAMED STAIR

SUPPORT COLUMN - BY STAIR MANUFACTURER

05 51 13-A METAL PAN TREAD AND RISER 05 51 13-B 05 51 13-C CONCRETE FILLED METAL PAN TREAD AND RISER 05 51 13-D CONCRETE FILLED METAL PAN LANDING 05 51 13-E METAL STAIR STRINGER- CHANNEL 05 51 13-F METAL TREAD PAN AND RISER

CLIP PLATE

05 52 13-A 1-1/4" I.D. ANODIZED ALUMINUM HANDRAIL 05 73 00-A 42" HIGH GLASS GUARDRAIL SYSTEM 05 73 00-B 1 1/4" I.D. STAINLESS STEEL HANDRAIL 05 73 00-C ALUMINUM BASE SHOE WITH STAINLESS STEEL CLADDING 05 73 00-D STAINLESS STEEL GLASS CAP

05 73 00-E WOOD CAP RAIL - PROFILE AS SHOWN IN DRAWINGS 48" HIGH GLASS GUARDRAIL SYSTEM 05 73 00-F 05 73 00-G 2" SQUARE BRUSHED STAINLESS STEEL CAP RAIL 06 10 00-C 2X WOOD BLOCKING 06 16 00-A 5/8" EXTERIOR GRADE PLYWOOD

3/4" EXTERIOR GRADE PLYWOOD 06 16 00-B 06 16 43-A 5/8" EXTERIOR GYPSUM SHEATHING 1X HARDWOOD STAIR RISER - STAIN TO MATCH DOORS 06 40 23-A 2X HARDWOOD STAIR TREAD - SEE DETAILS FOR NOSING PROFILE -06 40 23-B STAIN TO MATCH DOORS

ANTI-SLIP STAIR INSERT 06 40 23-C 06 40 23-D PLASTIC LAMINATE ON 3/4" PARTICLEBOARD 06 40 23-E 2X HARDWOOD CAP - STAIN TO MATCH DOORS 06 40 23-F METAL WRAPPED WOOD BENCH 07 13 26-A SELF-ADHERING SHEET WATERPROOFING

07 13 26-B MOLDED SHEET DRAINAGE PANEL 07 13 26-C PROTECTION COURSE SLAB PERIMETER RIGID INSULATION (R-15 FOR 24" HOIZONTAL R-10 TO 07 21 00-A TOP OF FOOTING OR 48" MAX VERTICAL) 3" CAVITY WALL EXTRUDED POLYSTYRENE INSULATION (R-16.8) 07 21 00-C

MINERAL WOOL BATT INSULATION THERMALLY BROKEN COMPOSITE Z-GIRT @ 16" O.C. COORDINATE 07 21 00-E DIRECTION WITH METAL PANEL MANUFACTURER WEATHER RESISTIVE BARRIERS- BUILDING WRAP 07 25 00-A 07 27 26-A FLUID APPLIED MEMBRANE AIR BARRIER

FORMED METAL WALL PANEL 07 42 13-A 07 42 13-B BRAKE METAL FLASHING/TRIM METAL HAT CHANNEL (16 GA. MIN.) - SEE SECTIONS FOR DEPTH 07 42 43-A COMPOSITE METAL WALL/SOFFIT PANEL 07 42 43-B BRAKE METAL TRIM/FLASHING - COLOR AS SELECTED BY ARCHITECT 07 42 43-C METAL HAT CHANNEL (16 GA. MIN.) - SEE SECTIONS FOR DEPTH 07 54 19-A POLYVINYL CHLORIDE (PVC) MEMBRANE ROOFING SYSTEM

MEMBRANE ROOFING - EXTEND OVER AND ATTACH TO FRONT FACE OF 07 54 19-B 07 54 19-C 1/2" COVER BOARD TAPERED POLYISO INSULATION BOARD 07 54 19-D 07 54 19-E 2 LAYERS OF 2" POLYISO INSULATION BOARD (R-22.8)

2" POLYISO INSULATION BOARD (R-13) 07 62 00-A TERMINATION BAR 07 71 00-A MANUFACTURED COPING 07 71 00-B MANUFACTURED DRIP EDGE / GRAVEL STOP 07 71 00-C MANUFACTURED ROOF FASCIA MANUFACTURED COUNTERFLASHING SYSTEM 07 71 00-D 07 72 00-A

ROOF HATCH 07 76 00-A PORCELAIN ROOF PAVERS ON ADJUSTABLE PEDESTALS 07 92 00-A SEALANT 07 92 00-B SEALANT EACH SIDE, TYPICAL

07 92 00-C BACKER ROD AND SEALANT BACKER ROD AND SEALANT EACH SIDE, TYPICAL 07 92 00-D HOLLOW METAL DOOR/BORROWED LIGHT FRAME 08 11 13-A 08 11 13-B GROUT SOLID OVERHEAD COILING COUNTER DOOR 08 33 13-A

08 41 13-A 4 1/2" ALUMINUM-FRAMED STOREFRONT WIDE STYLE ALUMINUM ENTRANCE DOOR 08 41 13-B 08 41 13-D ALUMINUM BRAKE METAL FLASHING/TRIM TO MATCH STOREFRONT

7 1/2" DEEP ALUMINUM CURTAINWALL SYSTEM 08 44 13-A 08 44 13-D ALUMINUM BREAKMETAL FLASHING/TRIM TO MATCH CURTAINWALL PRESSURE PLATE WITH MULLION CAP 08 44 13-E

GLAZING - SEE SCHEDULE/ELEVATIONS 08 80 00-A 09 22 16-D 2 1/2" STEEL STUD 09 22 16-E 3 5/8" STEEL STUD 09 22 16-F 6" STEEL STUD 09 22 16-G METAL STUD KICKERS AS REQUIRED 5/8" GYPSUM WALL BOARD (SEE SPECS FOR TYPE)

SOUND ATTENUATION INSULATION 09 29 00-D SUSPENDED GYPSUM BOARD CEILING ASSEMBLY EXTRUDED ALUMINUM DRYWALL L-TRIM 09 29 00-F EXTRUDED ALUMINUM 3/8" WIDE DRYWALL REVEAL 09 29 00-G 09 30 00-A CERAMIC TILE 09 51 13-A ACOUSTICAL CEILING SUSPENSION ASSEMBLY 09 54 26-A WOOD GRILLE CEILING

WOOD ATHLETIC FLOORING SYSTEM 09 65 13-A RESILIENT BASE RESILIENT STAIR TREADS & RISERS 09 65 13-B 12 24 13-A ROLLER WINDOW SHADES- SEE EQUIPMENT SCHEDULE 12 36 61-B SOLID SURFACE

14 24 00-A HYDRAULIC MRL ELEVATOR ELEVATOR DOOR AND FRAME 14 24 00-B 14 24 00-C PIT LADDER **ELEVATOR SILL** 14 24 00-D

FINISH GRADE- SEE CIVIL SHEETS 31 20 00-A 31 20 00-B COMPACTED EARTH DRAINING GRANULAR FILL 31 20 00-C 32 13 13-A SIDEWALK- SEE CIVIL SHEETS



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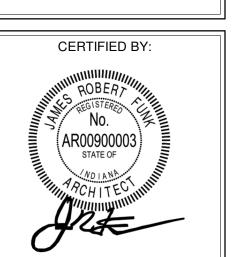
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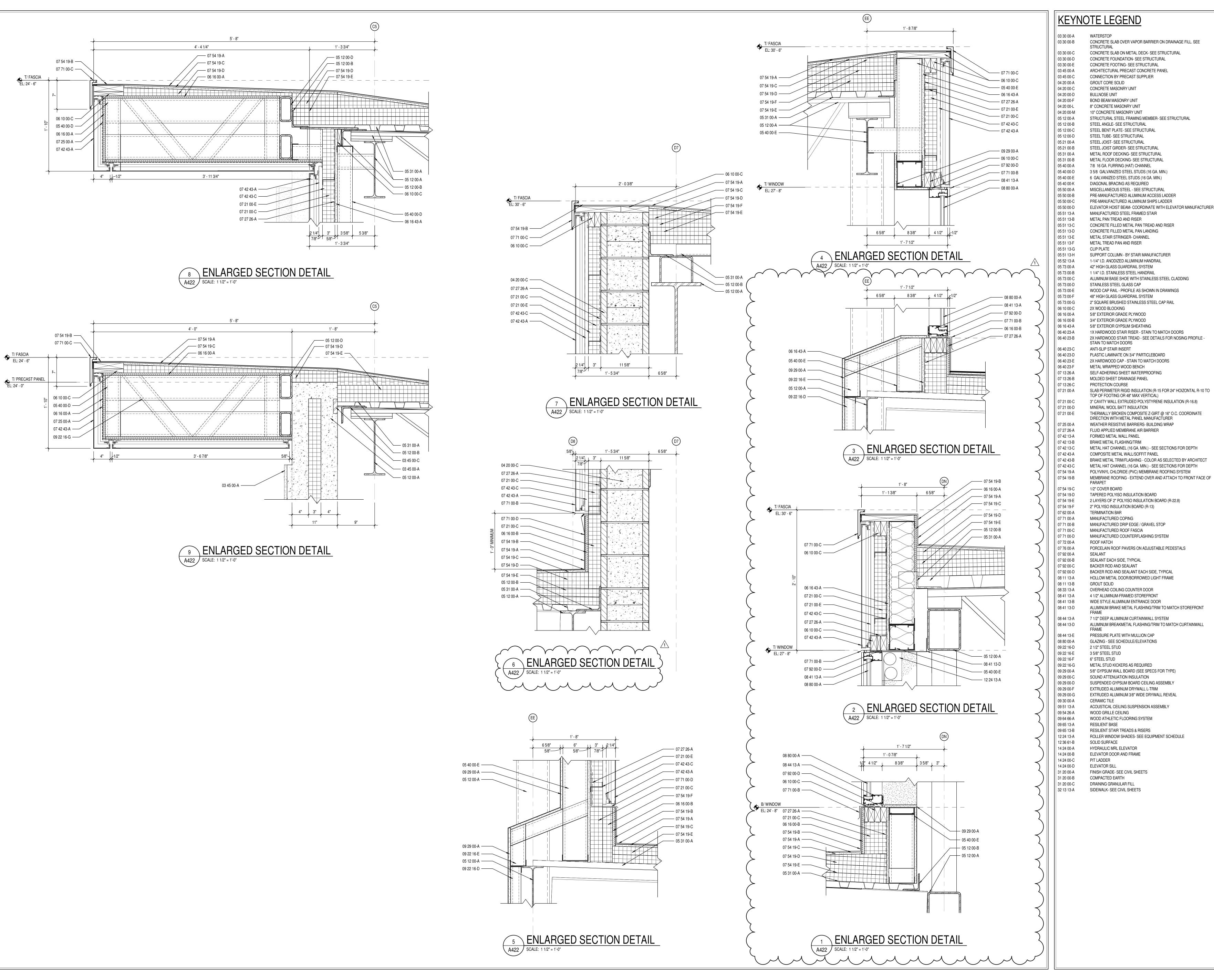
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> DRAWING TITLE: **ENLARGED DETAILS**



DRAWING NUMBER A421

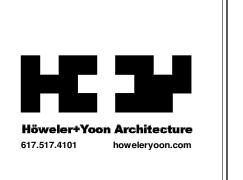




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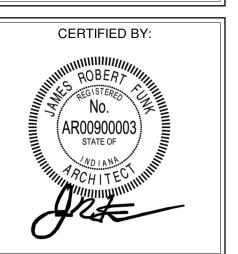
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DETAILS

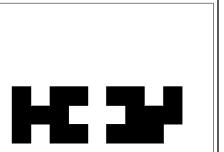


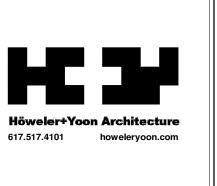
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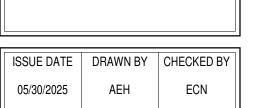
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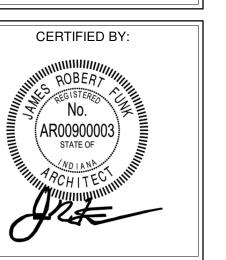
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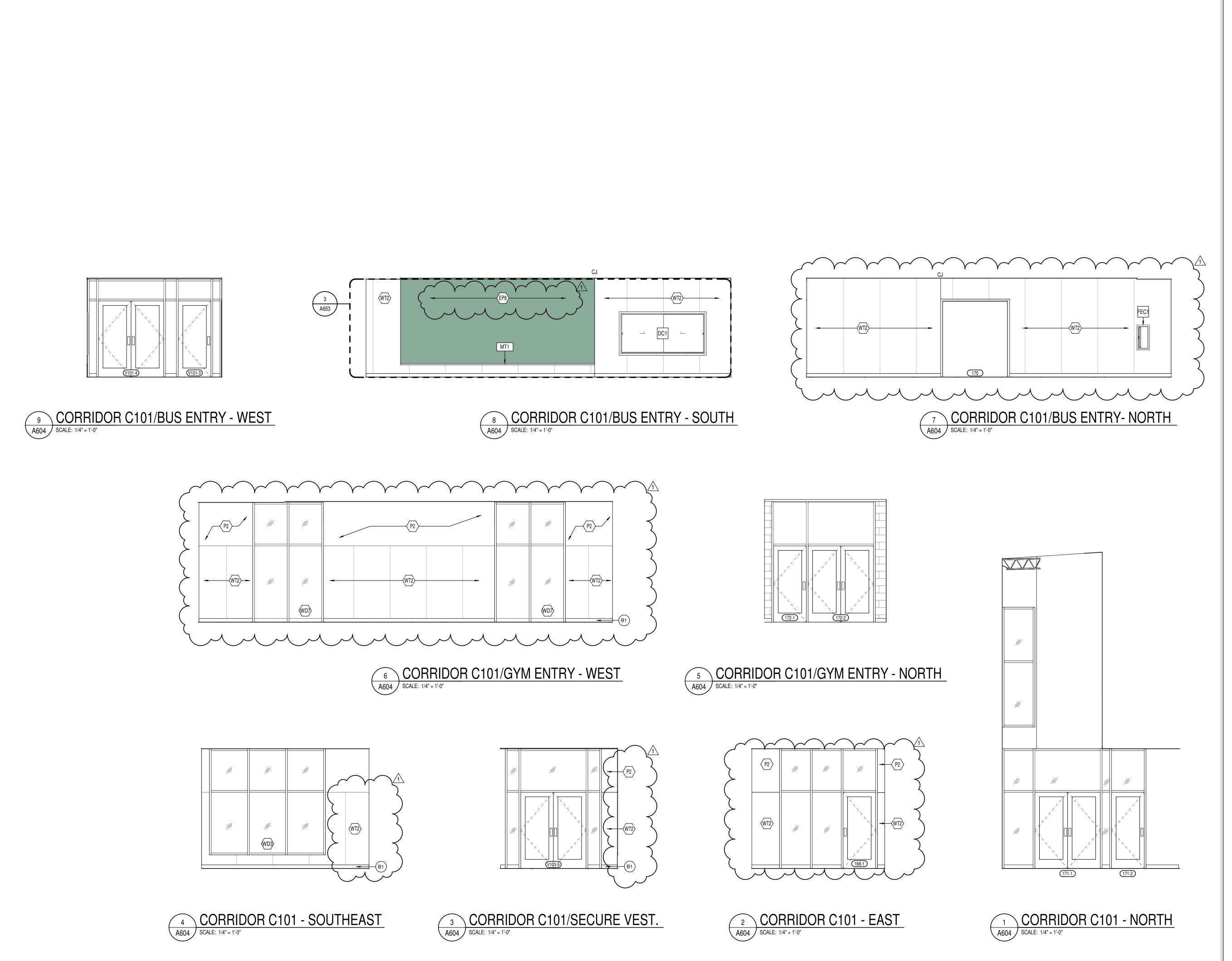
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DRAWING TITLE: **INTERIOR ELEVATIONS** -DISCOVERY CENTER



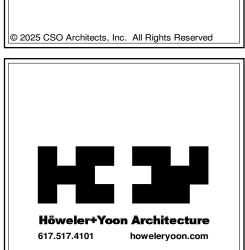
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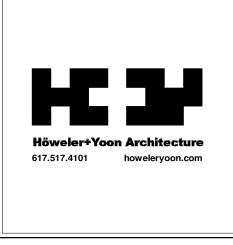


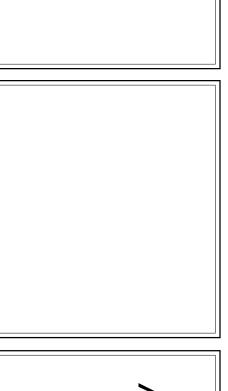


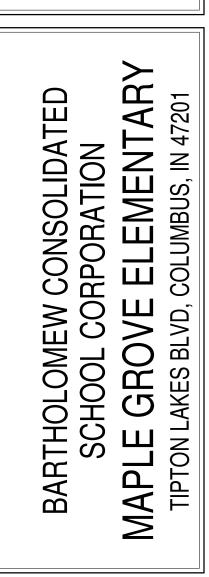
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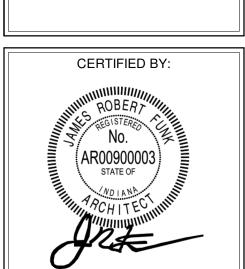
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DRAWING TITLE:

INTERIOR **ELEVATIONS** -COMMON SPACES



DRAWING NUMBER A604

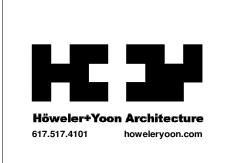


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BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
MAPLE GROVE ELEMENTARY
TIPTON LAKES BLVD, COLUMBUS, IN 47201

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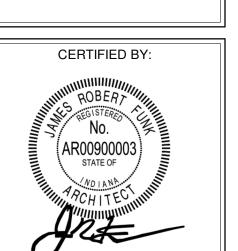
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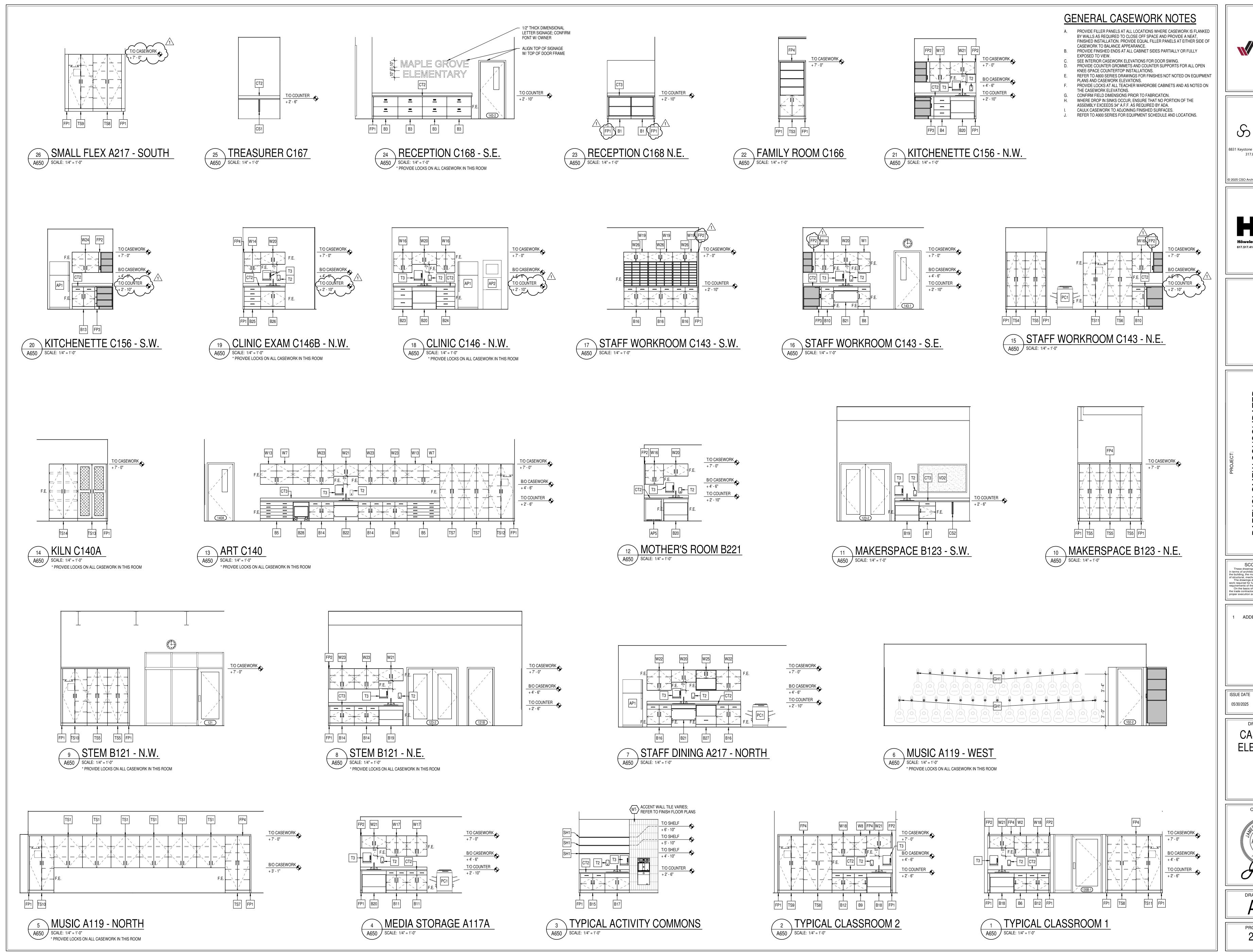
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INTERIOR
ELEVATIONS NEIGHBORHOOD



A605

PROJECT NUMBER
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BARTHOLOMEW CONSOLIDATED
SCHOOL CORPORATION
MAPLE GROVE ELEMENTARY
TIPTON LAKES BLVD, COLUMBUS, IN 47201

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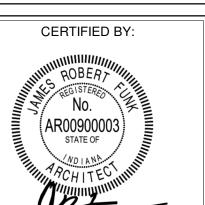
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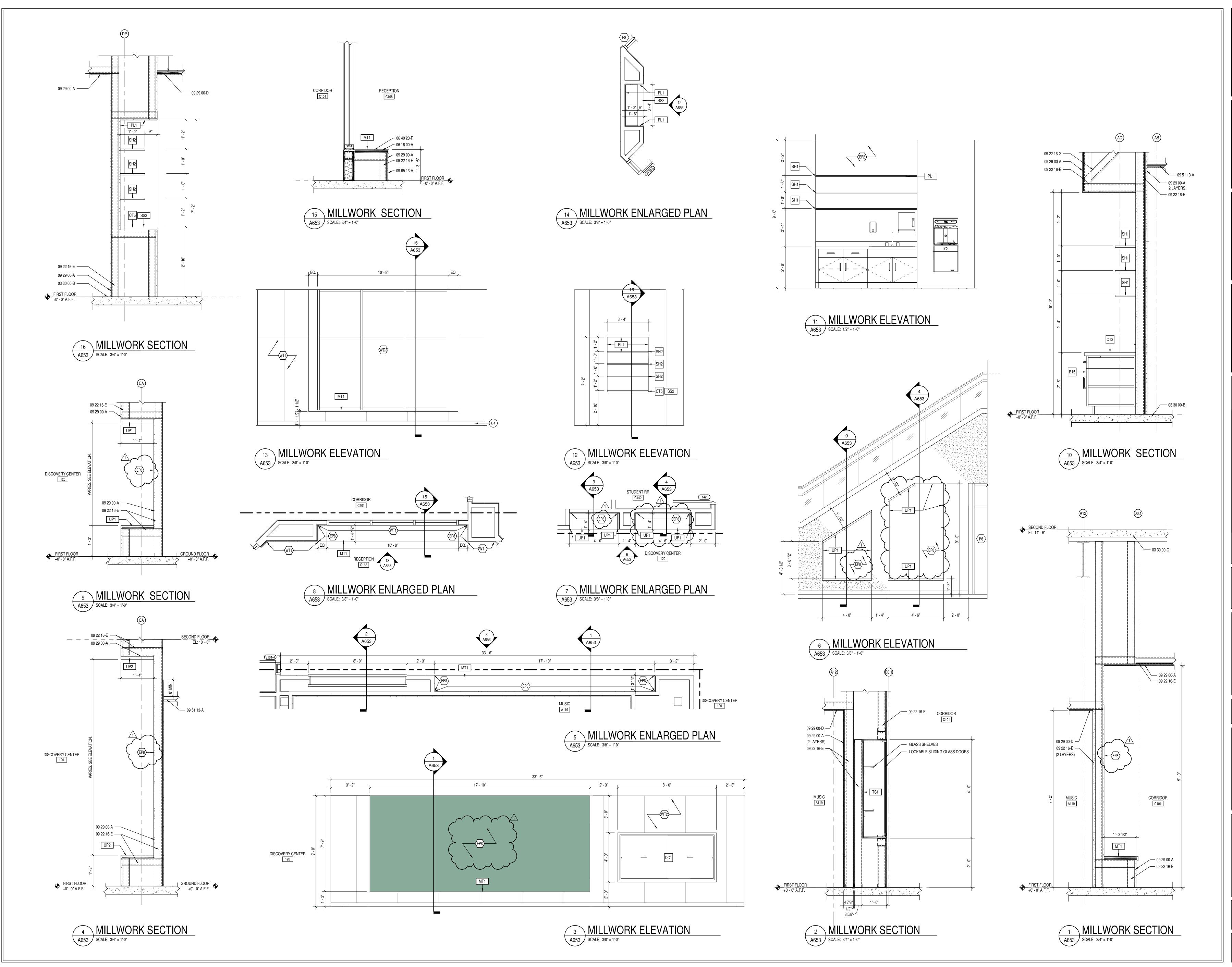
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ISSUE DATE DRAWN BY CHECKED BY 05/30/2025 LNM ECN

CASEWORK ELEVATIONS



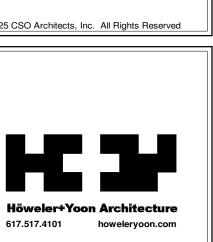
DRAWING NUMBER
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... R.Y

MAPLE GROVE I

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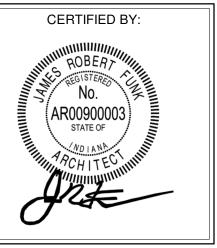
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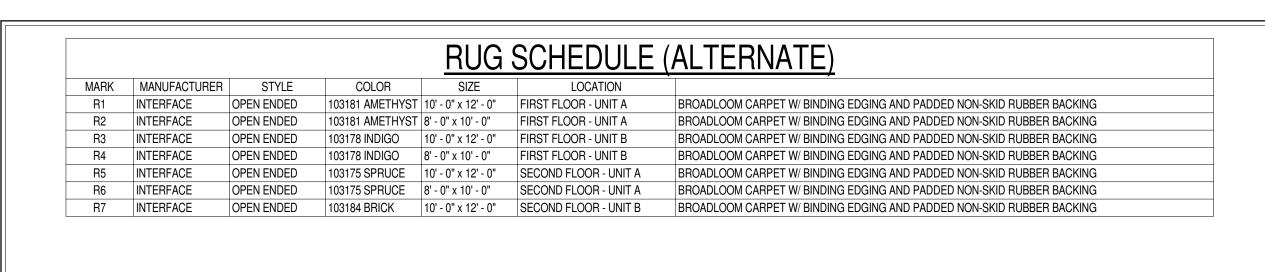
JAG 05/30/2025 DRAWING TITLE:

MILLWORK **DETAILS**

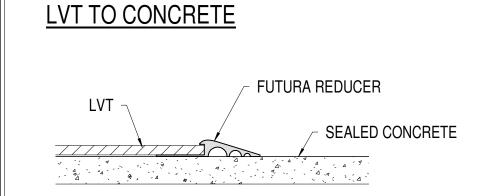
CERTIFIED BY:



DRAWING NUMBER A653 PROJECT NUMBER 2024022



FLOOR TRANSITION DETAILS



ACCENT LVT

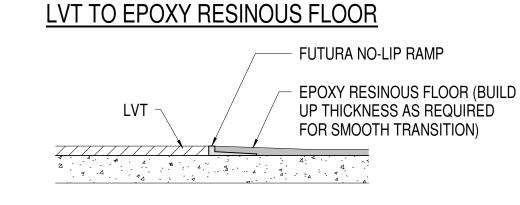
TRANSITION

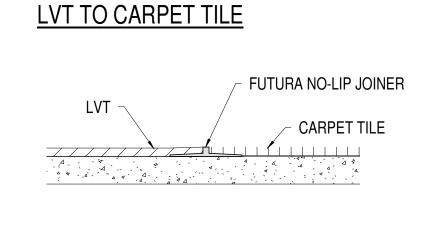
UNDERLAYMENT AS

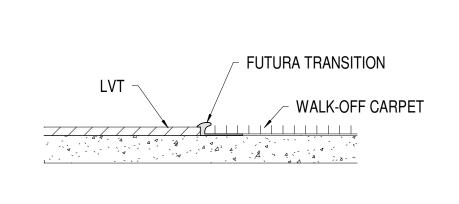
REQUIRED FOR FLUSH

LVT (5MM) TO LVT (2.5MM)

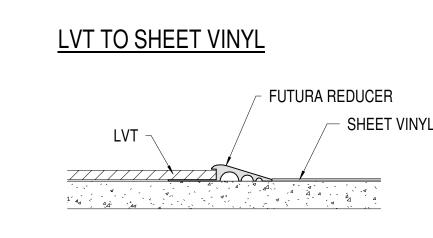
LVT -

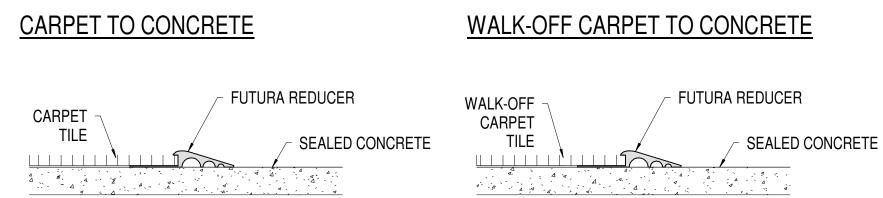


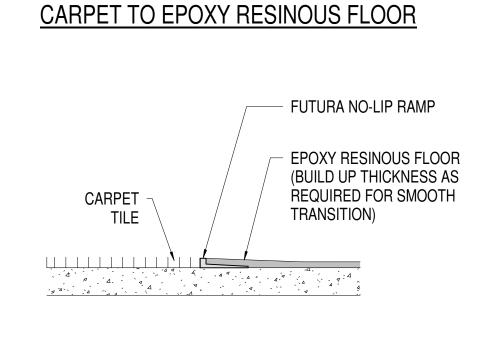


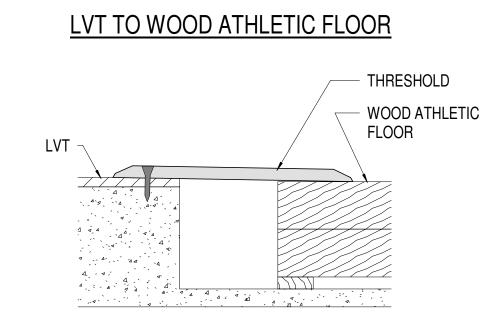


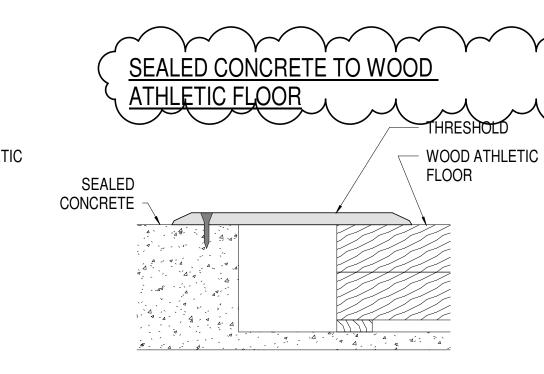
LVT TO WALK-OFF CARPET

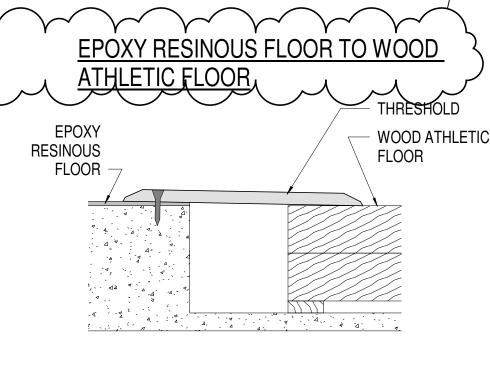




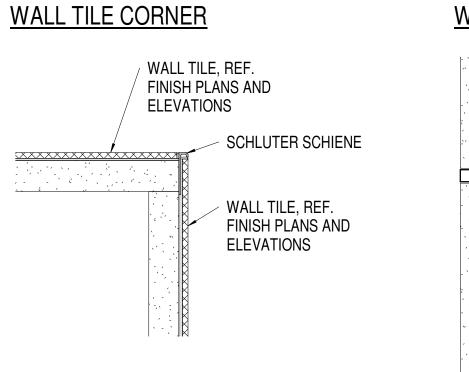


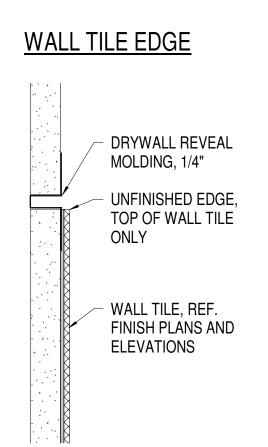


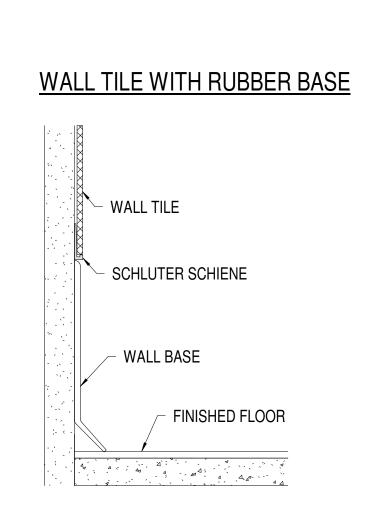


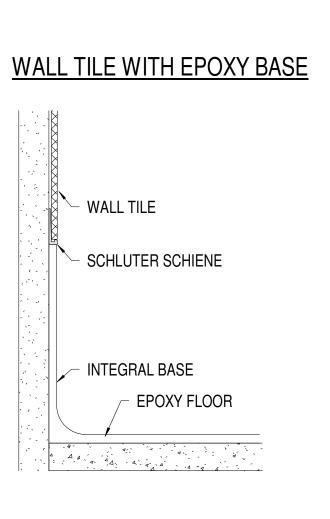


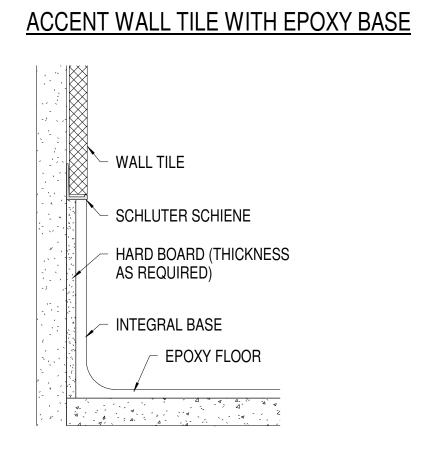
WALL TRANSITION DETAILS



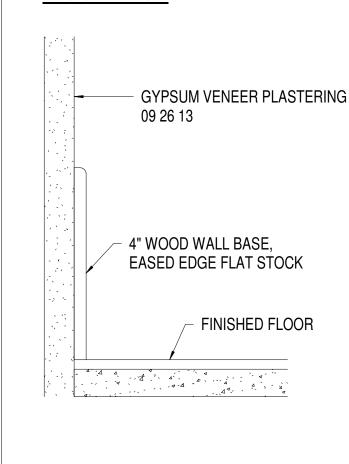








WOOD BASE



FINISH LEGEND

WALL BASE

RUBBER BASE

WOOD BASE

VENTED RUBBER BASE

MFR: ROPPE

STYLE: COVE

SIZE: 4"H

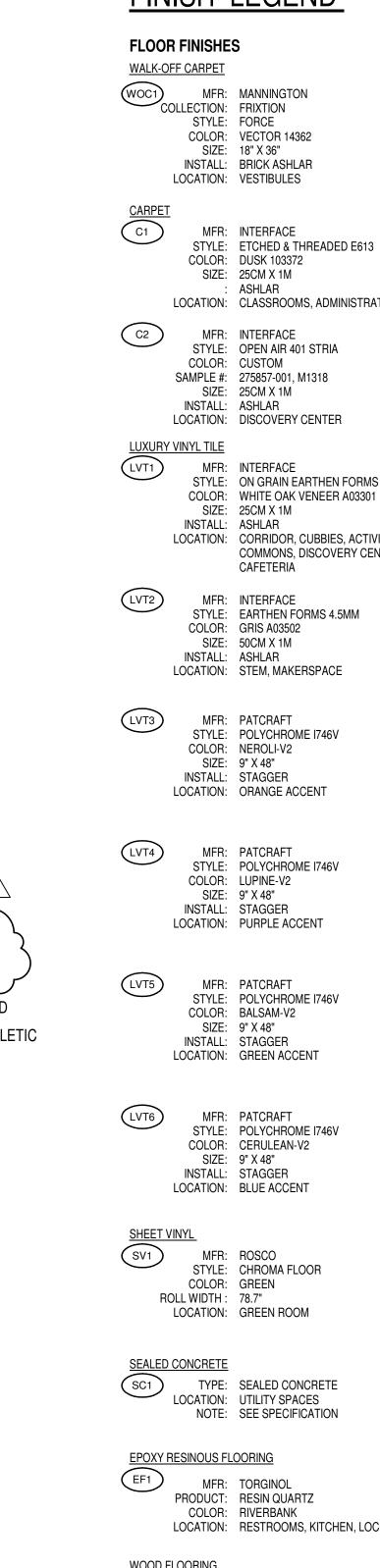
SIZE: 4"H

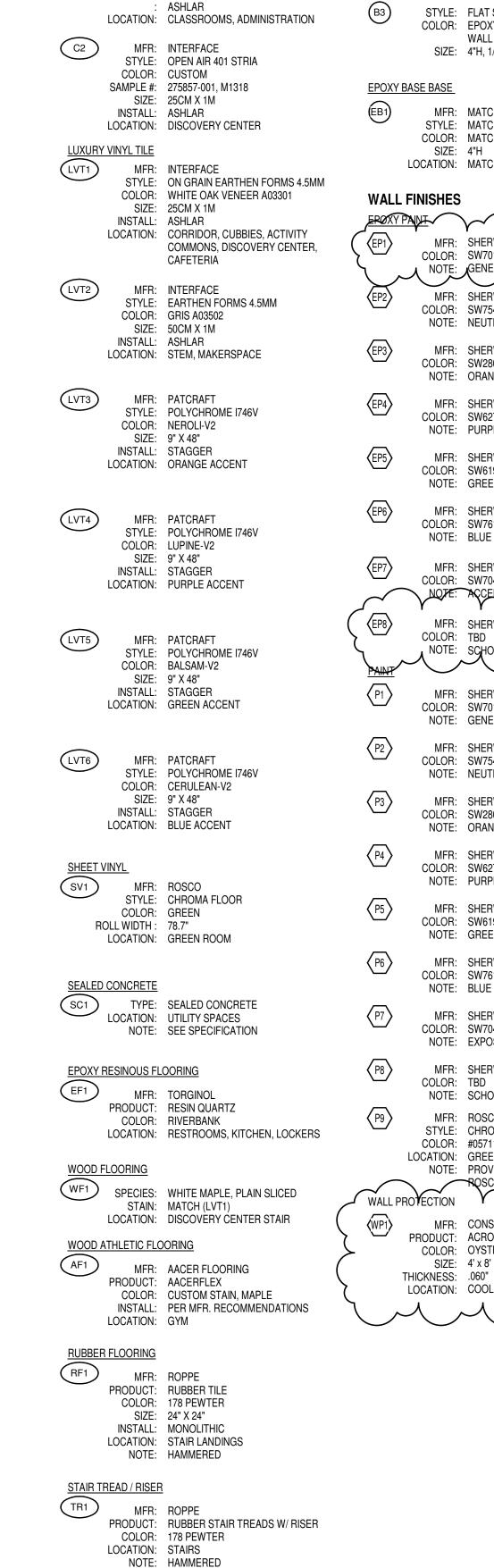
SIZE: 4"H

COLOR: TBD

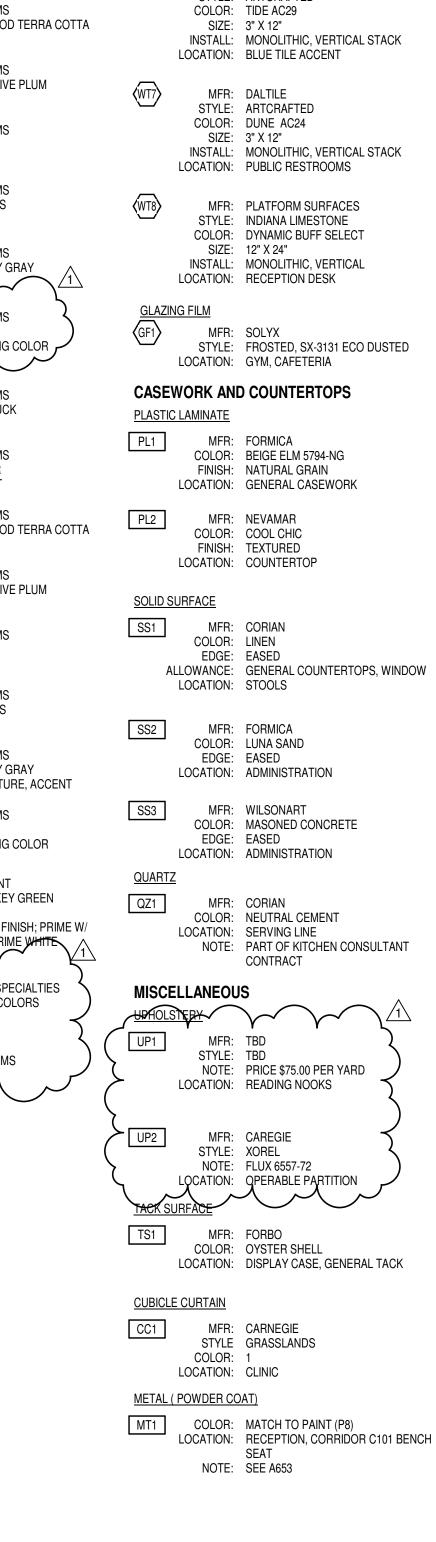
COLOR: TBD

SIZE: 4' x 8'





WALL FINISHES (CONT.) MFR: LOUISVILLE TILE, CROSSVILLE TILE STYLE: LAMINAM OXIDE 3+ COLOR: BIANCO COLOR: 178 PEWTER SIZE: 1M X 3M INSTALL: MONOLITHIC LOCATION: GENERAL BASE LOCATION: CORRIDORS MFR: LOUISVILLE TILE, CROSSVILLE TILE MFR: TARKETT STYLE: LAMINAM OXIDE 3+ STYLE: JOHNSONITE VENT COVE COLOR: AVORIO COLOR: 40 BLACK SIZE: 1M X 3M INSTALL: STACK BOND LOCATION: CORRIDORS, RESTROOMS STYLE: FLAT STOCK, EASDED EDGE MFR: DALTILE COLOR: EPOXY PAINT TO MATCH ADJACENT STYLE: ARTCRAFTED SIZE: 4"H, 1/4" THICKNESS COLOR: COTTO AC27 SIZE: 3" X 12" INSTALL: MONOLITHIC, VERTICAL STACK LOCATION: ORANGE TILE ACCENT MFR: MATCH (EF1) STYLE: MATCH (EF1) MFR: TRINITY TILE STYLE: ADELINE COLOR: MATCH (EF1) COLOR: LAVENDER LOCATION: MATCH (EF1) SIZE: 3" X 12" INSTALL: MONOLITHIC, VERTICAL STACK LOCATION: PURPLE ACCENT MFR: DALTILE STYLE: ARTCRAFTED MFR: SHERWIN WILLIAMS COLOR: ALOE AC25 COLOR: SW7010 WHITE DUCK SIZE: 3" X 12" NOTE: GENERAL BAINT INSTALL: MONOLITHIC, VERTICAL STACK LOCATION: GREEN TILE ACCENT MFR: SHERWIN WILLIAMS COLOR: SW7547 SANDBAR NOTE: NEUTRAL ACCENT MFR: DALTILE STYLE: ARTCRAFTED MFR: SHERWIN WILLIAMS COLOR: SW2803 ROCKWOOD TERRA COTTA NOTE: ORANGE ACCENT MFR: SHERWIN WILLIAMS COLOR: SW6271 EXPRESSIVE PLUM NOTE: PURPLE ACCENT MFR: SHERWIN WILLIAMS COLOR: SW6194 BASIL NOTE: GREEN ACCENT MFR: SHERWIN WILLIAMS COLOR: SW7614 ST. BART'S NOTE: BLUE ACCENT MFR: SHERWIN WILLIAMS COLOR: SW7043 WORLDLY GRAY MFR: SHERWIN WILLIAMS NOTE: SCHOOL BRANDING COLOR MFR: SHERWIN WILLIAMS COLOR: SW7010 WHITE DUCK PLASTIC LAMINATE NOTE: GENERAL PAINT MFR: SHERWIN WILLIAMS COLOR: SW7547 SANDBAR NOTE: NEUTRAL ACCENT MFR: SHERWIN WILLIAMS COLOR: SW2803 ROCKWOOD TERRA COTTA NOTE: ORANGE ACCENT MFR: SHERWIN WILLIAMS COLOR: SW6271 EXPRESSIVE PLUM SOLID SURFACE NOTE: PURPLE ACCENT MFR: SHERWIN WILLIAMS COLOR: SW6194 BASIL NOTE: GREEN ACCENT MFR: SHERWIN WILLIAMS COLOR: SW7614 ST. BART'S NOTE: BLUE ACCENT MFR: SHERWIN WILLIAMS COLOR: SW7043 WORLDLY GRAY NOTE: EXPOSED STRUCTURE, ACCENT MFR: SHERWIN WILLIAMS NOTE: SCHOOL BRANDING COLOR MFR: ROSCO **QUARTZ** STYLE: CHROMA KEY PAINT COLOR: #05711 CHROMA KEY GREEN LOCATION: GREEN ROOM NOTE: PROVIDE LEVEL 5 FINISH; PRIME W/ MFR: CONSTRUCTION SPECIALTIES **MISCELLANEOUS** PRODUCT: ACROVYN SOLID COLORS HPHOLSTERY COLOR: OYSTER GRAY MFR: TBD STYLE: TBD LOCATION: COOL DOWN ROOMS



GENERAL FINISH NOTES

- 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. THE SCHEDULED MATERIALS SHALL NOT BE INSTALLED BEFORE THE CONTRACTOR'S PHYSICAL COLOR SAMPLE SUBMITTALS HAVE BEEN APPROVED, AS REQUIRED BY 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. ALL SURFACES RECEIVING FINISHES SHALL BE PROPERLY PREPARED PER
- MANUFACTURERS' SPECIFICATIONS PRIOR TO INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING CONDITIONS. 4. FOR CHANGE IN FLOOR FINISH MATERIALS OF DIFFERENT HEIGHTS, PROVIDE
- TRANSITION STRIP TO MEET CODE/ADA REQUIREMENTS. WHEN FLOOR FINISHES TRANSITION AT DOOR OPENING. THE TRANSITION IS TO BE ON CENTER OF DOOR PANEL, U.N.O. SEE TRANSITION DETAILS ON A800 FOR
 - ADDITIONAL INFORMATION. . WHERE CARPET TILE AND LVT TRANSITIONS OCCUR, INSTALL FACTORY FINISHED EDGE OF CARPET TO FACTORY FINISHED EDGE OF LVT; DO NOT USE CUT EDGES
- AT ANY TRANSITIONS. SEE INTERIOR PAINT SPECIFICATIONS FOR SCHEDULE OF COATING TYPE PER SUBSTRATE AND SHEEN. CONTRACTOR TO PROVIDE CRISP, CLEAN LINES
- BETWEEN ALL PAINT TRANSITIONS. 8. ALL WALL MOUNTED GRILLES, METAL PANELS, MISC. METALS, ETC. ARE TO BE FACTORY FINISHED TO MATCH ADJACENT WALLS, U.N.O.
- 9. ALL CMU WALLS TO RECEIVE HIGH PERFORMANCE COATINGS (EP#). 10. DO NOT PAINT INTERIOR PRECAST PANELS OR OTHER FACTORY FINISHED ITEMS,
- 11. ALL EXPOSED STRUCTURAL ELEMENTS TO BE PAINTED (EP7), U.N.O. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. 12. ALL HOLLOW METAL DOORS AND FRAMES ARE TO BE PAINTED TO MATCH ADJACENT WALL. PROPER SURFACE PREPARATION REQUIRED PER
- MANUFACTURER'S REQUIREMENTS. REFER TO SPECIFICATIONS FOR PAINT SHEEN, AND ADDITIONAL INFORMATION:

 13. ALL WOOD DOORS SPECIFIED TO BE PAINTED TO MATCH ADJACENT WALL . ALL GWB CEILINGS AMOOR SOFEITS BULKHFADS TO HAVE EACES AND UNDERSIDE PAINTED TO MATCH ADJACENT WALLS, U.N.O. REFER TO REFLECTED
- CEILING PLANS AND SPECIFICATIONS FOR ALL CEILING MATERIALS, THEIR LOCATIONS, AND ADDITIONAL INFORMATION. 15. PAINT WALLS BEFORE INSTALLING MARKER BOARDS, TACKBOARDS, ETC.

GUARDS TO BE APPLIED TO GWB ONLY.

- 16. WOOD DOORS TO BE WHITE MAPLE, STAINED TO MATCH LVT1. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. 17. 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 FINISH LEGEND ON A800. CORNER
- 18. WHERE WALL TILE OCCURS, ALL OUTSIDE CORNERS AND EXPOSED TILE EDGES ARE TO BE TRIMMED WITH SCHLUTER SCHIENE IN BRUSHED STAINLESS STEEL FINISH. SEE WALL TRANSITION DETAILS ON A800. 19. WALL TILE TO BE INSTALLED WITH THE MINIMUM RECOMMENDED GROUT THICKNESS PER TILE MANUFACTURER. GROUT COLOR TO BE SELECTED FROM

RANGE. PARTITIONS MUST MEET NFPA 286. REFER TO SPECIFICATIONS FOR

- MANUFACTURER'S FULL RANGE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION 20. PLASTIC TOILET PARTITIONS TO BE SELECTED FROM MANUFACTURER'S FULL
- ADDITIONAL INFORMATION. 1. GYM WALL PADDING, BLEACHERS, AND EQUIPMENT FINISHES TO BE SELECTED FROM MANUFACTURER'S FULL RANGE. REFER TO 900 SERIES DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - 22. ALL CUSTODIAL MOP SINK LOCATIONS TO RECEIVE FRP; LENGTH AS NECESSARY MINIMUM OF 2'-0" ON EITHER SIDE OF SINK. FRP TO START AT TOP OF BASE AND RUN FULL PANEL WIDTH (4'-0"), COLOR TO BE SELECTED FROM MANUFACTURER'S FULL RANGE.

FINISH TAG KEY

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

F FINISH PLAN NOTES

- F1 ALIGN FLOOR TRANSITION TO OUTSIDE CORNER OR AS INDICATED ON PLAN. F2 INSTALL WALL TILE (WT1) FROM TOP OF RUBBER BASE (B1) TO ALIGN WITH TOP OF DOOR FRAME. EXPOSED TILE EDGES TO RECEIVE SCHULTER.
- F3 INSTALL WALL TILE (WT2) FROM TOP OF RUBBER BASE (B1) TO UNDERSIDE OF F4 INSTALL WALL TILE (WT1) FROM TOP OF RUBBER BASE (B1) TO 9'-0" AFF; PAINT (P1)

 ABOVE REFER TO 4800 FOR WALL TRANSITION DETAILS.
 - F5 INSTALL WALL TILE (WT2) FROM TOP OF RUBBER BASE (B1) TO 9'-1" AFF; PAINT (P2) ABOVE. REFER TO A800 FOR WALL TRANSITION DETAILS. F6 INSTALL WALL TILE (WT2) FROM TOP OF PUBBER BASE (B1) TO 7'-0" AFF; RAINT (P2) ABOVE. REFER TO A800 FOR WALL TRANSITION DETAILS.
 - F7 INSTALL WALL TILE (WT1) FROM TOP OF RUBBER BASE (B1) TO 7'-0" AFF; PAINT (P1) ABOVE. REFER TO A800 FOR WALL TRANSITION DETAILS. F8 INSTALL WALL TILE (WT1) FROM TOP OF RUBBER BASE (B1) TO 11'-0" AFF; PAINT (P1)
- ABOVE. REFER TO A800 FOR WALL TRANSITION DETAILS F9 CENTER COURT TO RECEIVE 12'-0" DIAMETER FOUR COLOR LOGO. LOGO TO BE SELECTED BY OWNER DURING CONSTRUCTION.

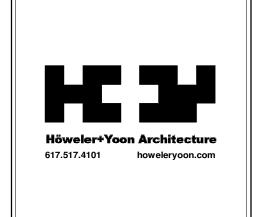
F12 ELEVATOR SIDE AND REAR WALL PANELS TO RECEIVE PLASTIC LAMINATE (PL1).

F10 COLOR ACCENT WALLS TO RECEIVE PLASTER VENEER. REFER TO GYPSUM VENEER PLASTERING 09 26 13. F11 BASKETBALL GAMES LINES TO BE BLACK. VOLLEYBALL GAME LINES TO BE WHITE.









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SCOPE DRAWINGS: These drawings indicate the general scope of the project terms of architectural design concept, the dimensions of e building, the major architectural elements and the type ructural, mechanical and electrical systems. The drawings do not necessarily indicate or describe a On the basis of the general scope indicated or descri proper execution and completion of the work.

> **REVISIONS:** ADDENDUM #1 06/10/2025

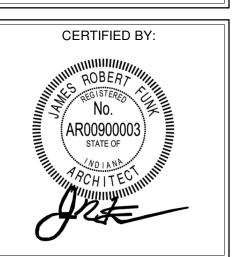
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RNR

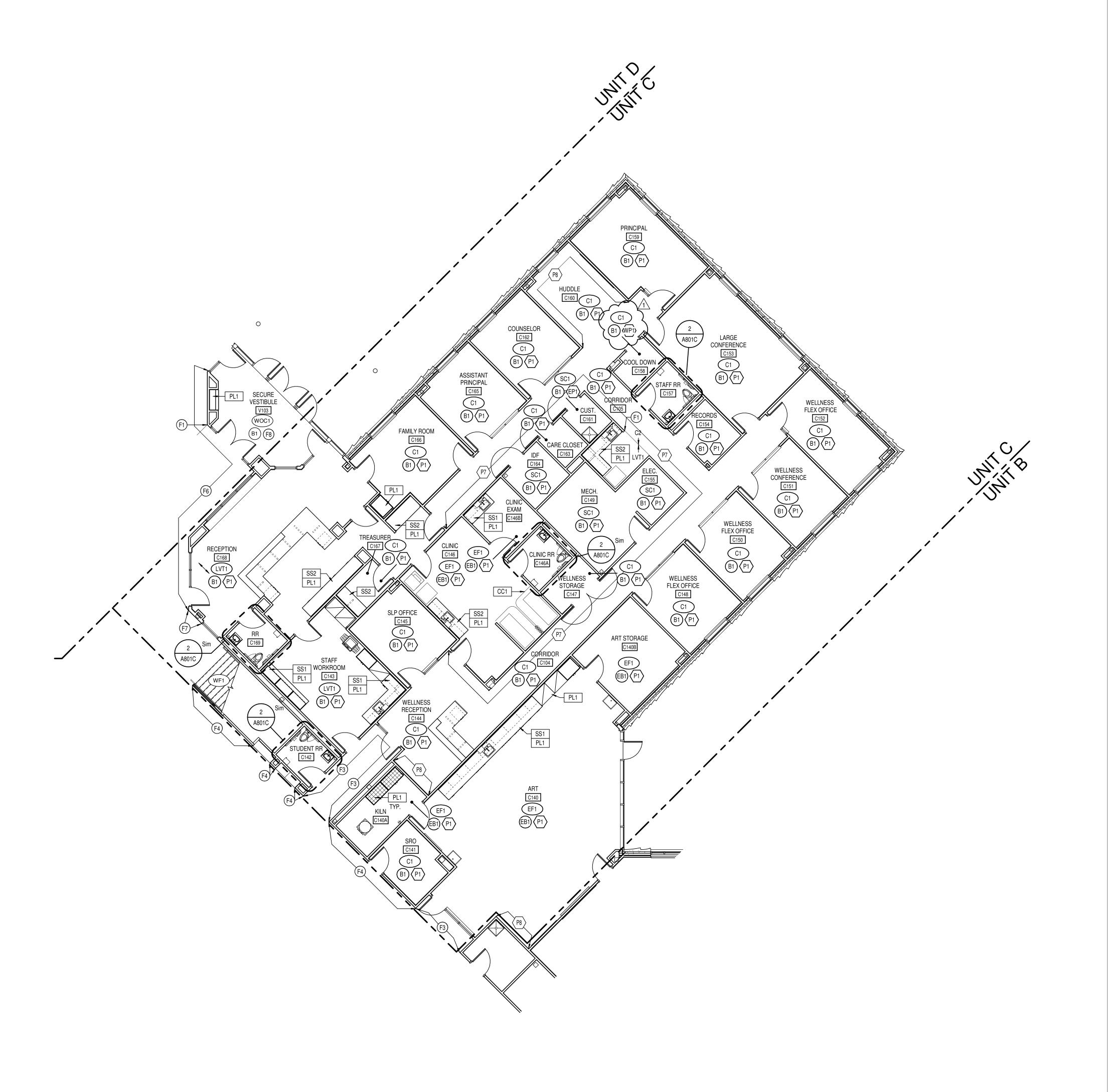
ECN

05/30/2025

DRAWING TITLE: FINISH LEGEND & NOTES



A800





- 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.

 2. THE SCHEDULED MATERIALS SHALL NOT BE INSTALLED BEFORE THE CONTRACTOR'S PHYSICAL COLOR SAMPLE SUBMITTALS HAVE BEEN APPROVED, AS REQUIRED BY 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.

 3. ALL SURFACES RECEIVING FINISHES SHALL BE PROPERLY PREPARED PER
 MANUFACTURERS' SPECIFICATIONS PRIOR TO INSTALL ATION. CONTRACTOR
- MANUFACTURERS' SPECIFICATIONS PRIOR TO INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING CONDITIONS.

 4. FOR CHANGE IN FLOOR FINISH MATERIALS OF DIFFERENT HEIGHTS, PROVIDE
- TRANSITION STRIP TO MEET CODE/ADA REQUIREMENTS.

 5. WHEN FLOOR FINISHES TRANSITION AT DOOR OPENING, THE TRANSITION IS TO BE ON CENTER OF DOOR PANEL, U.N.O. SEE TRANSITION DETAILS ON A800 FOR
- ADDITIONAL INFORMATION.

 6. WHERE CARPET TILE AND LVT TRANSITIONS OCCUR, INSTALL FACTORY FINISHED EDGE OF CARPET TO FACTORY FINISHED EDGE OF LVT; DO NOT USE CUT EDGES
- AT ANY TRANSITIONS.

 7. SEE INTERIOR PAINT SPECIFICATIONS FOR SCHEDULE OF COATING TYPE PER SUBSTRATE AND SHEEN. CONTRACTOR TO PROVIDE CRISP, CLEAN LINES
- BETWEEN ALL PAINT TRANSITIONS.

 8. ALL WALL MOUNTED GRILLES, METAL PANELS, MISC. METALS, ETC. ARE TO BE

FACTORY FINISHED TO MATCH ADJACENT WALLS, U.N.O.

- 9. ALL CMU WALLS TO RECEIVE HIGH PERFORMANCE COATINGS (EP#).10. DO NOT PAINT INTERIOR PRECAST PANELS OR OTHER FACTORY FINISHED ITEMS,
- 11. ALL EXPOSED STRUCTURAL ELEMENTS TO BE PAINTED (EP7), U.N.O. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 12. ALL HOLLOW METAL DOORS AND FRAMES ARE TO BE PAINTED TO MATCH
 ADJACENT WALL. PROPER SURFACE PREPARATION REQUIRED PER
 MANUFACTURER'S REQUIREMENTS. REFER TO SPECIFICATIONS FOR PAINT TYPE,
- SHEEN, AND ADDITIONAL INFORMATION.

 13. ALL WOOD DOORS SPECIFIED TO BE PAINTED TO MATCH ADJACENT WALL
- 13. ALL WOOD DOORS SPECIFIED TO BE PAINTED TO MATCH ADJACENT WALL
 SURFACE; REFER A501.

 14. ALL GWR CEILINGS AND/OR SOFFITS/BUILKHEADS TO HAVE FACES AND
- 14. ALL GWB CEILINGS AND/OR SOFFITS/BULKHEADS TO HAVE FACES AND UNDERSIDE PAINTED TO MATCH ADJACENT WALLS, U.N.O. REFER TO REFLECTED CEILING PLANS AND SPECIFICATIONS FOR ALL CEILING MATERIALS, THEIR
- LOCATIONS, AND ADDITIONAL INFORMATION.

 15. PAINT WALLS BEFORE INSTALLING MARKER BOARDS, TACKBOARDS, ETC.
- 16. WOOD DOORS TO BE WHITE MAPLE, STAINED TO MATCH LVT1. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 17. 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 FINISH LEGEND ON A800. CORNER
- 18. WHERE WALL TILE OCCURS, ALL OUTSIDE CORNERS AND EXPOSED TILE EDGES ARE TO BE TRIMMED WITH SCHLUTER SCHIENE IN BRUSHED STAINLESS STEEL FINISH. SEE WALL TRANSITION DETAILS ON A800.
- 19. WALL TILE TO BE INSTALLED WITH THE MINIMUM RECOMMENDED GROUT THICKNESS PER TILE MANUFACTURER. GROUT COLOR TO BE SELECTED FROM MANUFACTURER'S FULL RANGE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 20. PLASTIC TOILET PARTITIONS TO BE SELECTED FROM MANUFACTURER'S FULL RANGE. PARTITIONS MUST MEET NFPA 286. REFER TO SPECIFICATIONS FOR
- ADDITIONAL INFORMATION.
 21. GYM WALL PADDING, BLEACHERS, AND EQUIPMENT FINISHES TO BE SELECTED FROM MANUFACTURER'S FULL RANGE. REFER TO 900 SERIES DRAWINGS AND
- SPECIFICATIONS FOR ADDITIONAL INFORMATION.

 22. ALL CUSTODIAL MOP SINK LOCATIONS TO RECEIVE FRP; LENGTH AS NECESSARY, MINIMUM OF 2'-0" ON EITHER SIDE OF SINK. FRP TO START AT TOP OF BASE AND RUN FULL PANEL WIDTH (4'-0"). COLOR TO BE SELECTED FROM MANUFACTURER'S FULL BANGE

MANUFACTURER'S FULL RANGE. FINISH TAG KEY

GUARDS TO BE APPLIED TO GWB ONLY.

XXX FLOOR FINISH

(XX) BASE FINIS

XX WALL F

XXX HORIZONTAL FINISH (COUNTERTOP)
XXX VERTICAL FINISH (CASEWORK)

COUNTERTOP, CASEWORK OR MISCELLANEOUS FINISH ONLY REFER TO FINISH LEGEND

ACCENT WALL FINISH

FLOORING INSTALL DIRECTION

FINISH PLAN NOTES

- F1 ALIGN FLOOR TRANSITION TO OUTSIDE CORNER OR AS INDICATED ON PLAN.
 F2 INSTALL WALL TILE (WT1) FROM TOP OF RUBBER BASE (B1) TO ALIGN WITH TOP OF DOOR FRAME. EXPOSED TILE EDGES TO RECEIVE SCHULTER.
- F3 INSTALL WALL TILE (WT2) FROM TOP OF RUBBER BASE (B1) TO UNDERSIDE OF BULKHEAD.
- F4 INSTALL WALL TILE (WT1) FROM TOP OF RUBBER BASE (B1) TO 9'-0" AFF; PAINT (P1) ABOVE. REFER TO A800 FOR WALL TRANSITION DETAILS.
 F5 INSTALL WALL TILE (WT2) FROM TOP OF RUBBER BASE (B1) TO 9'-1" AFF; PAINT (P2)
- ABOVE. REFER TO A800 FOR WALL TRANSITION DETAILS.

 F6 INSTALL WALL TILE (WT2) FROM TOP OF RUBBER BASE (B1) TO 7'-0" AFF; PAINT (P2) ABOVE. REFER TO A800 FOR WALL TRANSITION DETAILS.
- F7 INSTALL WALL TILE (WT1) FROM TOP OF RUBBER BASE (B1) TO 7'-0" AFF; PAINT (P1) ABOVE. REFER TO A800 FOR WALL TRANSITION DETAILS.

F8 INSTALL WALL TILE (WT1) FROM TOP OF RUBBER BASE (B1) TO 11'-0" AFF; PAINT (P1)

- ABOVE. REFER TO A800 FOR WALL TRANSITION DETAILS.

 F9 CENTER COURT TO RECEIVE 12'-0" DIAMETER FOUR COLOR LOGO. LOGO TO BE SELECTED BY OWNER DURING CONSTRUCTION.
- F10 COLOR ACCENT WALLS TO RECEIVE PLASTER VENEER. REFER TO GYPSUM VENEER PLASTERING 09 26 13.
- F11 BASKETBALL GAMES LINES TO BE BLACK. VOLLEYBALL GAME LINES TO BE WHITE.
 F12 ELEVATOR SIDE AND REAR WALL PANELS TO RECEIVE PLASTIC LAMINATE (PL1).



S CSO

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

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BARTHOLOMEW CONSOLIDATEI
SCHOOL CORPORATION
APLE GROVE ELEMENTAF
TIPTON LAKES BLVD, COLUMBUS, IN 4720

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.

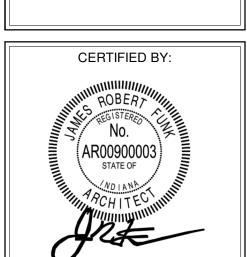
ADDENDUM #1 06/10/2025

REVISIONS:

ISSUE DATE DRAWN BY CHECKED BY

05/30/2025 RNR

FIRST FLOOR FINISH PLAN -



A801C

PROJECT NUMBER

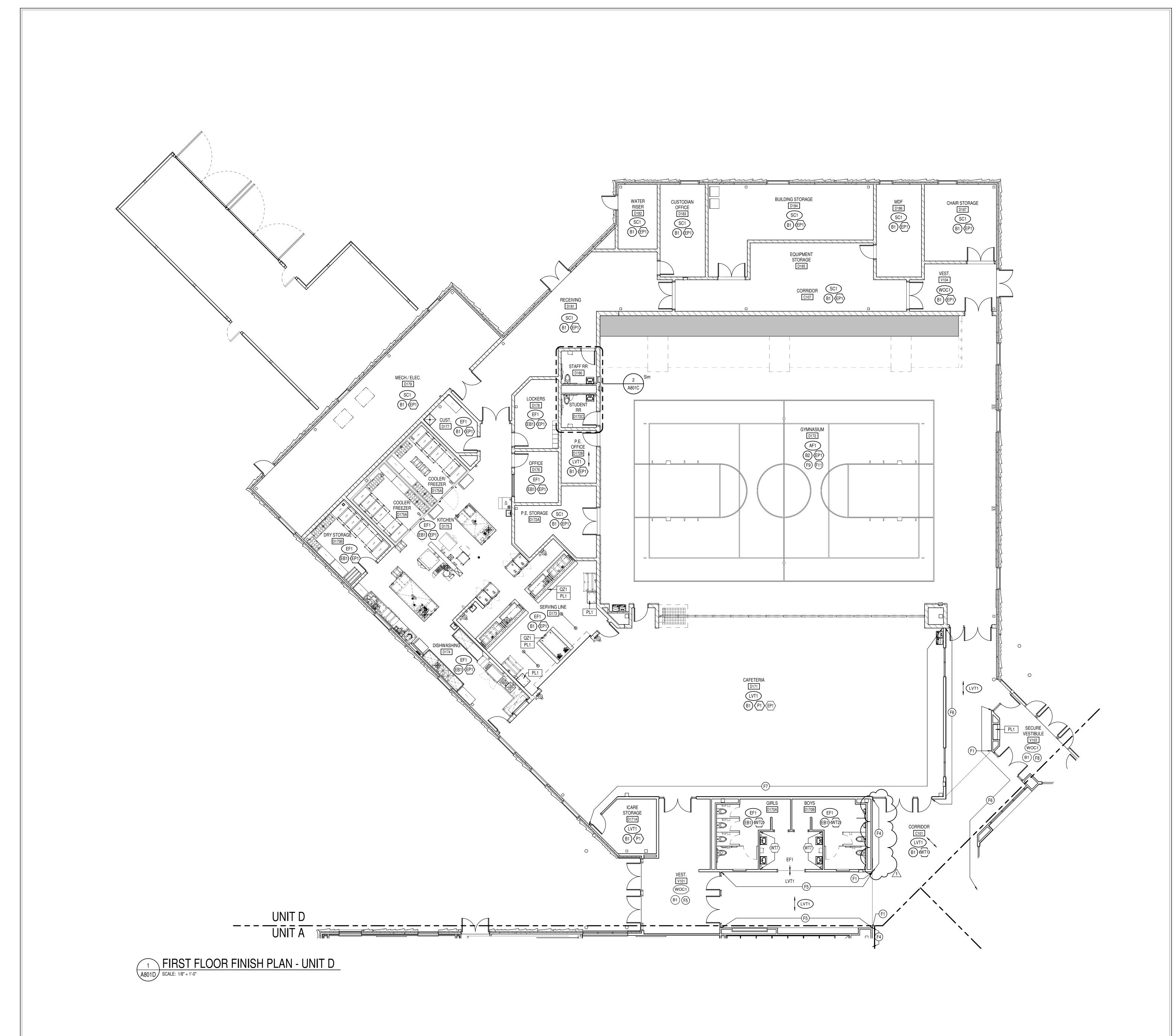
2024022

D C C KEY PLAN NORTH

1 FIRST FLOOR FINISH PLAN - UNIT C
A801C SCALE: 1/8" = 1'-0"

TYPICAL FIRST FLOOR UNIT C/D RESTROOM

A801C SCALE: 1/4" = 1'-0"



GENERAL FINISH NOTES

- ANY DISCREPANCIES WITHIN THE DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF CSO ARCHITECTS PRIOR TO INSTALLATION. THESE DOCUMENTS
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- SPECIFICATIONS. 3. ALL SURFACES RECEIVING FINISHES SHALL BE PROPERLY PREPARED PER
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- TRANSITION STRIP TO MEET CODE/ADA REQUIREMENTS. 5. WHEN FLOOR FINISHES TRANSITION AT DOOR OPENING, THE TRANSITION IS TO BE ON CENTER OF DOOR PANEL, U.N.O. SEE TRANSITION DETAILS ON A800 FOR ADDITIONAL INFORMATION.
- 6. WHERE CARPET TILE AND LVT TRANSITIONS OCCUR, INSTALL FACTORY FINISHED EDGE OF CARPET TO FACTORY FINISHED EDGE OF LVT; DO NOT USE CUT EDGES AT ANY TRANSITIONS.
- SEE INTERIOR PAINT SPECIFICATIONS FOR SCHEDULE OF COATING TYPE PER SUBSTRATE AND SHEEN. CONTRACTOR TO PROVIDE CRISP, CLEAN LINES
- BETWEEN ALL PAINT TRANSITIONS. 8. ALL WALL MOUNTED GRILLES, METAL PANELS, MISC. METALS, ETC. ARE TO BE
- FACTORY FINISHED TO MATCH ADJACENT WALLS, U.N.O. 9. ALL CMU WALLS TO RECEIVE HIGH PERFORMANCE COATINGS (EP#).
- 10. DO NOT PAINT INTERIOR PRECAST PANELS OR OTHER FACTORY FINISHED ITEMS, 11. ALL EXPOSED STRUCTURAL ELEMENTS TO BE PAINTED (EP7), U.N.O. SEE
- 12. ALL HOLLOW METAL DOORS AND FRAMES ARE TO BE PAINTED TO MATCH ADJACENT WALL. PROPER SURFACE PREPARATION REQUIRED PER MANUFACTURER'S REQUIREMENTS. REFER TO SPECIFICATIONS FOR PAINT TYPE,
- SHEEN, AND ADDITIONAL INFORMATION. 13. ALL WOOD DOORS SPECIFIED TO BE PAINTED TO MATCH ADJACENT WALL

SPECIFICATIONS FOR ADDITIONAL INFORMATION.

- SURFACE; REFER A501. 14. ALL GWB CEILINGS AND/OR SOFFITS/BULKHEADS TO HAVE FACES AND
- UNDERSIDE PAINTED TO MATCH ADJACENT WALLS, U.N.O. REFER TO REFLECTED CEILING PLANS AND SPECIFICATIONS FOR ALL CEILING MATERIALS, THEIR
- LOCATIONS, AND ADDITIONAL INFORMATION. 15. PAINT WALLS BEFORE INSTALLING MARKER BOARDS, TACKBOARDS, ETC.
- 16. WOOD DOORS TO BE WHITE MAPLE, STAINED TO MATCH LVT1, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. 17. 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 FINISH LEGEND ON A800. CORNER
- GUARDS TO BE APPLIED TO GWB ONLY. 18. WHERE WALL TILE OCCURS, ALL OUTSIDE CORNERS AND EXPOSED TILE EDGES ARE TO BE TRIMMED WITH SCHLUTER SCHIENE IN BRUSHED STAINLESS STEEL
- FINISH. SEE WALL TRANSITION DETAILS ON A800. 19. WALL TILE TO BE INSTALLED WITH THE MINIMUM RECOMMENDED GROUT THICKNESS PER TILE MANUFACTURER. GROUT COLOR TO BE SELECTED FROM

MANUFACTURER'S FULL RANGE. REFER TO SPECIFICATIONS FOR ADDITIONAL

- INFORMATION. 20. PLASTIC TOILET PARTITIONS TO BE SELECTED FROM MANUFACTURER'S FULL RANGE. PARTITIONS MUST MEET NFPA 286. REFER TO SPECIFICATIONS FOR
- ADDITIONAL INFORMATION. 21. GYM WALL PADDING, BLEACHERS, AND EQUIPMENT FINISHES TO BE SELECTED FROM MANUFACTURER'S FULL RANGE. REFER TO 900 SERIES DRAWINGS AND
- SPECIFICATIONS FOR ADDITIONAL INFORMATION. 22. ALL CUSTODIAL MOP SINK LOCATIONS TO RECEIVE FRP; LENGTH AS NECESSARY, MINIMUM OF 2'-0" ON EITHER SIDE OF SINK. FRP TO START AT TOP OF BASE AND RUN FULL PANEL WIDTH (4'-0"). COLOR TO BE SELECTED FROM MANUFACTURER'S FULL RANGE.

FINISH TAG KEY

- (XXX) FLOOR FINISH
- XX BASE FINISH
- XX WALL FINISH
- XXX HORIZONTAL FINISH (COUNTERTOP)
 XXX VERTICAL FINISH (CASEWORK)
- COUNTERTOP, CASEWORK OR MISCELLANEOUS FINISH ONLY REFER TO FINISH LEGEND

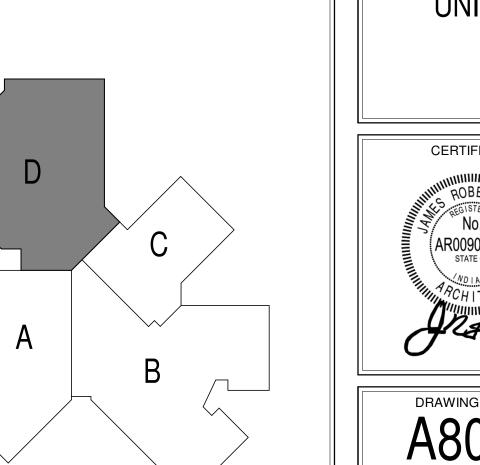
XXX ACCENT WALL FINISH

FLOORING INSTALL DIRECTION

FINISH PLAN NOTES

KEY PLAN

- F1 ALIGN FLOOR TRANSITION TO OUTSIDE CORNER OR AS INDICATED ON PLAN. F2 INSTALL WALL TILE (WT1) FROM TOP OF RUBBER BASE (B1) TO ALIGN WITH TOP OF
- DOOR FRAME. EXPOSED TILE EDGES TO RECEIVE SCHULTER. F3 INSTALL WALL TILE (WT2) FROM TOP OF RUBBER BASE (B1) TO UNDERSIDE OF
- F4 INSTALL WALL TILE (WT1) FROM TOP OF RUBBER BASE (B1) TO 9'-0" AFF; PAINT (P1) ABOVE. REFER TO A800 FOR WALL TRANSITION DETAILS.
- F5 INSTALL WALL TILE (WT2) FROM TOP OF RUBBER BASE (B1) TO 9'-1" AFF; PAINT (P2) ABOVE. REFER TO A800 FOR WALL TRANSITION DETAILS.
- F6 INSTALL WALL TILE (WT2) FROM TOP OF RUBBER BASE (B1) TO 7'-0" AFF; PAINT (P2) ABOVE. REFER TO A800 FOR WALL TRANSITION DETAILS.
- F7 INSTALL WALL TILE (WT1) FROM TOP OF RUBBER BASE (B1) TO 7'-0" AFF; PAINT (P1) ABOVE. REFER TO A800 FOR WALL TRANSITION DETAILS. F8 INSTALL WALL TILE (WT1) FROM TOP OF RUBBER BASE (B1) TO 11'-0" AFF; PAINT (P1)
- ABOVE. REFER TO A800 FOR WALL TRANSITION DETAILS. F9 CENTER COURT TO RECEIVE 12'-0" DIAMETER FOUR COLOR LOGO. LOGO TO BE
- SELECTED BY OWNER DURING CONSTRUCTION. F10 COLOR ACCENT WALLS TO RECEIVE PLASTER VENEER. REFER TO GYPSUM VENEER
- PLASTERING 09 26 13. F11 BASKETBALL GAMES LINES TO BE BLACK. VOLLEYBALL GAME LINES TO BE WHITE.
- F12 ELEVATOR SIDE AND REAR WALL PANELS TO RECEIVE PLASTIC LAMINATE (PL1).





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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 work required for full performance and completion of the requirements of the Contract.

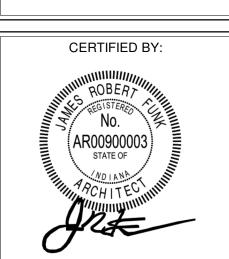
On the basis of the general scope indicated or described the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

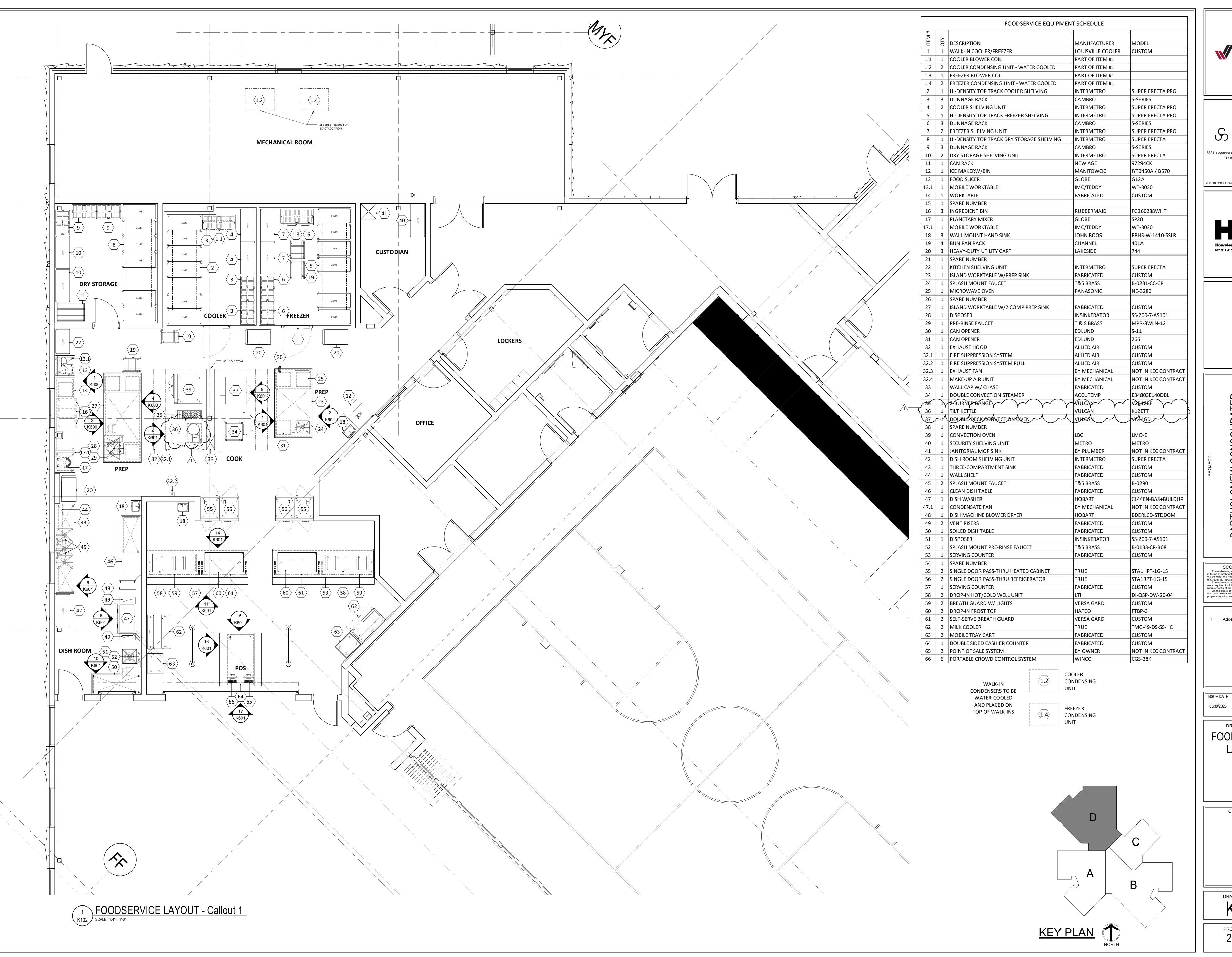
ADDENDUM #1 06/10/2025

ISSUE DATE DRAWN BY CHECKED BY 05/30/2025 RNR ECN

DRAWING TITLE: FIRST FLOOR FINISH PLAN -UNIT D



DRAWING NUMBER A801D PROJECT NUMBER 2024022



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617.517.4101 howeleryoon.com

SCHOOL CORPORATION

APLE GROVE ELEMENTARY

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:
Addendum #1 6-10-25

ISSUE DATE | DRAWN BY | CHECKED BY

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DRAWING TITLE:
FOODSERVICE

LAYOUT

CERTIFIED BY:

DRAWING NUMBER K102

QUIPMENT			MECH	IANI	ICAL			ELE	CTRI	CAL				
E DESCRIPTION	MANUFACTURI	E MODEL			GAS		REMARKS	<u>~</u>					$\overline{\mathbf{I}}$	REMARKS
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T	LOUISVILLE COOLER	CUSTOM	<u> </u>	╅	S E	4 3 4		<u> </u>	<u></u>	1 16 0	도 표		<u> </u>	WIDE THRU LICHTS SWITCH DOOR AND DRAIN LINE HEATERS SEE MAD SHEETS FOR ADDITIONAL INFORMATIO
·	PART OF ITEM #1	CUSTOIN	+			0.75	DRAIN TO FLOOR DRAIN	1.1	120 120	1 1.80		D		WIRE THRU LIGHTS, SWITCH, DOOR AND DRAIN LINE HEATERS. SEE K400 SHEETS FOR ADDITIONAL INFORMATION SEE K400 SHEETS FOR ADDITIONAL INFORMATION
	PART OF ITEM #1	-		+		0.75 FL	WATER-COOLED CONDENSERS - CONNECTED TO GEOTHERMAL LOOP	1.1	208	3 8.70	1.5			SEE K400 SHEETS FOR ADDITIONAL INFORMATION SEE K400 SHEETS FOR ADDITIONAL INFORMATION
	PART OF ITEM #1			+		0.75 50	DRAIN TO FLOOR DRAIN	1.3	208	1 15 2	1.5			SEE K400 SHEETS FOR ADDITIONAL INFORMATION SEE K400 SHEETS FOR ADDITIONAL INFORMATION
	PART OF ITEM #1	- 		+		0.75 FL	WATER-COOLED CONDENSERS - CONNECTED TO GEOTHERMAL LOOP	1.4	208	3 18.4	4.5		_	SEE K400 SHEETS FOR ADDITIONAL INFORMATION SEE K400 SHEETS FOR ADDITIONAL INFORMATION
1 HI-DENSITY TOP TRACK COOLER SHELVING	INTERMETRO	SUPER ERECTA PRO		+			WATER-COOLED CONDENSERS - CONNECTED TO GEOTHERWAL LOOP	2	208	3 18.4	4.5		1001	SEE R400 SHEETS FOR ADDITIONAL INFORMATION
3 DUNNAGE RACK	CAMBRO	S-SERIES		+ +				2					+	
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3 DUNNAGE RACK	CAMBRO	S-SERIES		+				6					+	
	INTERMETRO	SUPER ERECTA PRO		+ +				7					+	
	INTERMETRO	SUPER ERECTA		+ +				2					+	
3 DUNNAGE RACK	CAMBRO	S-SERIES		+				9					+	
2 DRY STORAGE SHELVING UNIT	INTERMETRO	SUPER ERECTA		+				10					+	
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 	MANITOWOC	IYT0450A / B570	0.50	72	 	0.75		12	120	14.3			75	
· · · · · · · · · · · · · · · · · · ·	GLOBE	G12A	- 0.30	1/4	 			13	120	3.00		D	48	
	IMC/TEDDY	WT-3030	++-	+ +	 	+ + +		13.1	120	3.00			+-0	
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	RUBBERMAID	FG360288WHT	+	+ +		 		16		 			+	
			+	+ +		 		17	120	6.00	0.5		48	
	GLOBE IMC/TEDDY	SP20		+ +	 	 			120	6.00	0.5	P	48	
	IMC/TEDDY	WT-3030	0.50 0.50	1 24	 	1 50 2	1	17.1		 			+	
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	CHANNEL	744		+	 	 		19		 			+	
	LAKESIDE			+ +	 	 		20		 			+	
1 SPARE NUMBER	INTERMETER	CLIDED EDECTA		+ +	 	 		21		 			+	
	INTERMETRO	SUPER ERECTA			 	200		22	120	1 100			+	FIVELIDE MOLINITED DOO. ALCOCATIONS
1 ISLAND WORKTABLE W/PREP SINK	FABRICATED	CUSTOM	0.50 0.55	+	 	2.00 FS	DRAIN TO FLOOR SINK	23	120	1 16.0		Р	SU	FIXTURE MOUNTED DCO - 4 LOCATIONS
	T&S BRASS	B-0231-CC-CR	0.50 0.50	14		 		24	222	1 22.5		-	+	NENAA C 20D
	PANASONIC	NE-3280						25	208	1 20.0		P	48	NEMA 6-30R
1 SPARE NUMBER				1 -				26						
1 ISLAND WORKTABLE W/2 COMP PREP SINK	FABRICATED	CUSTOM		FS	<u> </u>	2.00	DRAIN TO FLOOR SINK	27	120	1 16.0		P	SU	FIXTURE MOUNTED DCO - 4 LOCATIONS
	INSINKERATOR	SS-200-7-AS101		DFA		2.00 SL	J	28	208	3 6.00	2	D	SU	
	T & S BRASS	MPR-8WLN-12	0.50 0.50	14				29						
	EDLUND	S-11		\perp				30						
+ +	EDLUND	266		\perp				31	120	1		Р	- 	MOUNTED ON ITEM#27
	ALLIED AIR	CUSTOM		\perp				32	120	1 16.0		D	DFA	FOR HOOD LIGHTS AND CONTROLS TO JUNCTION BOX ON TOP OF HOOD.
	ALLIED AIR	CUSTOM		+				32.1						
	ALLIED AIR	CUSTOM		\perp				32.2						
	BY MECHANICAL	NOT IN KEC CONTRACT		1				32.3						
	BY MECHANICAL	NOT IN KEC CONTRACT						32.4					+	
1 WALL CAP W/ CHASE	FABRICATED	CUSTOM	//2/2 ==			- -		33	(2) 100	0 (0)10 0				
	ACCUTEMP	E34803E140DBL	(2)0.75			0.75 FS		34	(2)480	3 (2)16.0		P	36	NEMA L16-20P
 	XVLCAN	/ \/\"\!\\"\"\ *				 			\sim	Y VY Y	~ \ \ \ \ \			
1 TILT KETTLE	1	V2B12/8F	- 	+ ++	0.75 10	36		35		• 44•		l D	36	
a an inventor in the contract of the contract	VULCAN	K12ETT	0.50 0.50	36	0.75 \10	36 2.00 FS		35 36	480	3 14.0	. 1/2	<u> </u>	+ 24	NEA A E AED
	VULCAM	 	0.50 0.50	36		36 2.00 FS		35 36 37		3 14.0	1/2	~ A	~24	NEMA 5-15P
1 SPARE NUMBER	+ +	K12ETT VeA4GD	0.50 0.50	36	(2)0:75 (2)50	36 2.00 FS 36		38	(2)120	15.4	1/2		24	NEMA 5-15P
1 SPARE NUMBER 1 CONVECTION OVEN	LBC	K12ETT VEAGD LMO-E	0.50 0.50	36	(2)0:75 (2)50	36 2.00 FS		38	(2)120	3 14.0	1/2	D	24	NEMA 5-15P
1 SPARE NUMBER 1 CONVECTION OVEN 1 SECURITY SHELVING UNIT	LBC METRO	K12ETT VEAGD LMO-E METRO	0.50 0.50	36	(2)0:75 (2)50	36 2.00 FS 36 0.50 FS	WEDIEV WITH BILLIA ARER	38 39 40	(2)120	15.4	1/2		24	NEMA 5-15P
1 SPARE NUMBER 1 CONVECTION OVEN 1 SECURITY SHELVING UNIT 1 JANITORIAL MOP SINK	LBC METRO BY PLUMBER	K12ETT WEAGD LMO-E METRO NOT IN KEC CONTRACT	0.50 0.50	36	(2)0:75 (2)50	36 2.00 FS 36	VERIFY WITH PLUMBER	38 39 40 41	(2)120	15.4	1/2		24	NEMA 5-15P
1 SPARE NUMBER 1 CONVECTION OVEN 1 SECURITY SHELVING UNIT 1 JANITORIAL MOP SINK 1 DISH ROOM SHELVING UNIT	LBC METRO BY PLUMBER INTERMETRO	K12ETT WEAGD LMO-E METRO NOT IN KEC CONTRACT SUPER ERECTA	0.50 0.50	36	(2)0:75 (2)50	36 2.00 FS 36 0.50 FS 3.00		38 39 40 41 42	(2)120	15.4	1/2		24	NEMA 5-15P
1 SPARE NUMBER 1 CONVECTION OVEN 1 SECURITY SHELVING UNIT 1 JANITORIAL MOP SINK 1 DISH ROOM SHELVING UNIT 1 THREE-COMPARTMENT SINK	LBC METRO BY PLUMBER INTERMETRO FABRICATED	K12ETT WEAGD LMO-E METRO NOT IN KEC CONTRACT SUPER ERECTA CUSTOM	0.50 0.50	36	(2)0:75 (2)50	36 2.00 FS 36 0.50 FS 3.00	VERIFY WITH PLUMBER DRAIN TO FLOOR SINK	38 39 40 41 42 43	(2)120	15.4	1/2		24	<u>NEMA 5-15P</u>
1 SPARE NUMBER 1 CONVECTION OVEN 1 SECURITY SHELVING UNIT 1 JANITORIAL MOP SINK 1 DISH ROOM SHELVING UNIT 1 THREE-COMPARTMENT SINK 1 WALL SHELF	LBC METRO BY PLUMBER INTERMETRO FABRICATED FABRICATED	K12ETT WEAGD LMO-E METRO NOT IN KEC CONTRACT SUPER ERECTA CUSTOM CUSTOM	0.50 0.50 0.50 0.50	36 36 42	(2)0:75 (2)50	36 2.00 FS 36 0.50 FS 3.00	DRAIN TO FLOOR SINK	38 39 40 41 42 43 44	(2)120	15.4	1/2		24	JVEMA 5-15P
1 SPARE NUMBER 1 CONVECTION OVEN 1 SECURITY SHELVING UNIT 1 JANITORIAL MOP SINK 1 DISH ROOM SHELVING UNIT 1 THREE-COMPARTMENT SINK 1 WALL SHELF 2 SPLASH MOUNT FAUCET	LBC METRO BY PLUMBER INTERMETRO FABRICATED FABRICATED T&S BRASS	K12ETT WEAGD LMO-E METRO NOT IN KEC CONTRACT SUPER ERECTA CUSTOM CUSTOM B-0290	0.50 0.50	36 36 42	(2)0:75 (2)50	36 2.00 FS 36 0.50 FS 3.00		38 39 40 41 42 43 44 45	(2)120	15.4	1/2		24	NEMA 5-15P
1 SPARE NUMBER 1 CONVECTION OVEN 1 SECURITY SHELVING UNIT 1 JANITORIAL MOP SINK 1 DISH ROOM SHELVING UNIT 1 THREE-COMPARTMENT SINK 1 WALL SHELF 2 SPLASH MOUNT FAUCET 1 CLEAN DISH TABLE	LBC METRO BY PLUMBER INTERMETRO FABRICATED T&S BRASS FABRICATED	K12ETT WEALGD LMO-E METRO NOT IN KEC CONTRACT SUPER ERECTA CUSTOM CUSTOM B-0290 CUSTOM	0.50 0.50 0.50 0.50 0.75 0.75	36 36 42 14	(2)0:75 (2)50	36 2.00 FS 36 0.50 FS 3.00	DRAIN TO FLOOR SINK EXTEND WATER TO FAUCETS	38 39 40 41 42 43 44 45 46	120-480	1-3 7.0-15.0	1/2	D	24	NEMA 5-15P
1 SPARE NUMBER 1 CONVECTION OVEN 1 SECURITY SHELVING UNIT 1 JANITORIAL MOP SINK 1 DISH ROOM SHELVING UNIT 1 THREE-COMPARTMENT SINK 1 WALL SHELF 2 SPLASH MOUNT FAUCET 1 CLEAN DISH TABLE 1 DISH WASHER	LBC METRO BY PLUMBER INTERMETRO FABRICATED T&S BRASS FABRICATED HOBART	K12ETT WEALGD LMO-E METRO NOT IN KEC CONTRACT SUPER ERECTA CUSTOM CUSTOM B-0290 CUSTOM CL44EN-BAS+BUILDUP	0.50 0.50 0.50 0.50	36 36 42 14	(2)0:75 (2)50	36 2.00 FS 36 0.50 FS 3.00	DRAIN TO FLOOR SINK	38 39 40 41 42 43 44 45 46 47	(2)120	15.4	1/2		24	NEMA 5-15P
1 SPARE NUMBER 1 CONVECTION OVEN 1 SECURITY SHELVING UNIT 1 JANITORIAL MOP SINK 1 DISH ROOM SHELVING UNIT 1 THREE-COMPARTMENT SINK 1 WALL SHELF 2 SPLASH MOUNT FAUCET 1 CLEAN DISH TABLE 1 DISH WASHER 1 CONDENSATE FAN	LBC METRO BY PLUMBER INTERMETRO FABRICATED T&S BRASS FABRICATED HOBART BY MECHANICAL	K12ETT WEALGD LMO-E METRO NOT IN KEC CONTRACT SUPER ERECTA CUSTOM CUSTOM B-0290 CUSTOM CL44EN-BAS+BUILDUP NOT IN KEC CONTRACT	0.50 0.50 0.50 0.50 0.75 0.75	36 36 42 14	(2)0:75 (2)50	36 2.00 FS 36 0.50 FS 3.00 2.00 FS	DRAIN TO FLOOR SINK EXTEND WATER TO FAUCETS DRAIN TO FLOOR SINK	38 39 40 41 42 43 44 45 46 47 47.1	(2)1/20 120-480 480	1-3 7.0-15.0 3 27.9		D	24	NEMA 5-15P
1 SPARE NUMBER 1 CONVECTION OVEN 1 SECURITY SHELVING UNIT 1 JANITORIAL MOP SINK 1 DISH ROOM SHELVING UNIT 1 THREE-COMPARTMENT SINK 1 WALL SHELF 2 SPLASH MOUNT FAUCET 1 CLEAN DISH TABLE 1 DISH WASHER 1 CONDENSATE FAN 1 DISH MACHINE BLOWER DRYER	LBC METRO BY PLUMBER INTERMETRO FABRICATED T&S BRASS FABRICATED HOBART BY MECHANICAL HOBART	K12ETT WEALGD LMO-E METRO NOT IN KEC CONTRACT SUPER ERECTA CUSTOM CUSTOM B-0290 CUSTOM CL44EN-BAS+BUILDUP NOT IN KEC CONTRACT BDERLCD-STDDOM	0.50 0.50 0.50 0.50 0.75 0.75	36 36 42 14	(2)0:75 (2)50	36 2.00 FS 36 0.50 FS 3.00	DRAIN TO FLOOR SINK EXTEND WATER TO FAUCETS DRAIN TO FLOOR SINK	38 39 40 41 42 43 44 45 46 47 47.1 48	120-480	1-3 7.0-15.0	1/2	D	24	NEMA 5-15P
1 SPARE NUMBER 1 CONVECTION OVEN 1 SECURITY SHELVING UNIT 1 JANITORIAL MOP SINK 1 DISH ROOM SHELVING UNIT 1 THREE-COMPARTMENT SINK 1 WALL SHELF 2 SPLASH MOUNT FAUCET 1 CLEAN DISH TABLE 1 DISH WASHER 1 CONDENSATE FAN 1 DISH MACHINE BLOWER DRYER 2 VENT RISERS	LBC METRO BY PLUMBER INTERMETRO FABRICATED T&S BRASS FABRICATED HOBART BY MECHANICAL HOBART FABRICATED	K12ETT WEALGD LMO-E METRO NOT IN KEC CONTRACT SUPER ERECTA CUSTOM CUSTOM B-0290 CUSTOM CL44EN-BAS+BUILDUP NOT IN KEC CONTRACT BDERLCD-STDDOM CUSTOM	0.50 0.50 0.50 0.50 0.75 0.75	36 36 42 14	(2)0:75 (2)50	36 2.00 FS 36 0.50 FS 3.00 2.00 FS 1.00 SF	DRAIN TO FLOOR SINK EXTEND WATER TO FAUCETS DRAIN TO FLOOR SINK	38 39 40 41 42 43 44 45 46 47 47.1 48 49	(2)1/20 120-480 480	1-3 7.0-15.0 3 27.9		D	24	NEMA 5-15P
1 SPARE NUMBER 1 CONVECTION OVEN 1 SECURITY SHELVING UNIT 1 JANITORIAL MOP SINK 1 DISH ROOM SHELVING UNIT 1 THREE-COMPARTMENT SINK 1 WALL SHELF 2 SPLASH MOUNT FAUCET 1 CLEAN DISH TABLE 1 DISH WASHER 1 CONDENSATE FAN 1 DISH MACHINE BLOWER DRYER 2 VENT RISERS 1 SOILED DISH TABLE	LBC METRO BY PLUMBER INTERMETRO FABRICATED T&S BRASS FABRICATED HOBART BY MECHANICAL HOBART FABRICATED FABRICATED FABRICATED	K12ETT WEALGD LMO-E METRO NOT IN KEC CONTRACT SUPER ERECTA CUSTOM CUSTOM B-0290 CUSTOM CL44EN-BAS+BUILDUP NOT IN KEC CONTRACT BDERLCD-STDDOM CUSTOM CUSTOM CUSTOM CUSTOM	0.50 0.50 0.50 0.50 0.75 0.75 0.50 0.50	36 36 42 14	(2)0.75 (2)50	2.00 FS 2.00 FS 3.00 2.00 FS 1.00 SF	DRAIN TO FLOOR SINK EXTEND WATER TO FAUCETS DRAIN TO FLOOR SINK DRAIN TO FLOOR SINK	38 39 40 41 42 43 44 45 46 47 47.1 48 49 50	(2)1/20 120-480 480 480	3 7.0-15.0 3 27.9 3 2.60		D	66	NEMA 5-15P
1 SPARE NUMBER 1 CONVECTION OVEN 1 SECURITY SHELVING UNIT 1 JANITORIAL MOP SINK 1 DISH ROOM SHELVING UNIT 1 THREE-COMPARTMENT SINK 1 WALL SHELF 2 SPLASH MOUNT FAUCET 1 CLEAN DISH TABLE 1 DISH WASHER 1 CONDENSATE FAN 1 DISH MACHINE BLOWER DRYER 2 VENT RISERS 1 SOILED DISH TABLE 1 DISPOSER	LBC METRO BY PLUMBER INTERMETRO FABRICATED T&S BRASS FABRICATED HOBART BY MECHANICAL HOBART FABRICATED FABRICATED INSINKERATOR	K12ETT WEALGD LMO-E METRO NOT IN KEC CONTRACT SUPER ERECTA CUSTOM CUSTOM B-0290 CUSTOM CL44EN-BAS+BUILDUP NOT IN KEC CONTRACT BDERLCD-STDDOM CUSTOM CUSTOM CUSTOM SS-200-7-AS101	0.50	36 36 42 14	(2)0.75 (2)50	36 2.00 FS 36 0.50 FS 3.00 2.00 FS 1.00 SF	DRAIN TO FLOOR SINK EXTEND WATER TO FAUCETS DRAIN TO FLOOR SINK DRAIN TO FLOOR SINK	38 39 40 41 42 43 44 45 46 47 47.1 48 49 50 51	(2)1/20 120-480 480	1-3 7.0-15.0 3 27.9	2	D	24	N€MA 5-15P
1 SPARE NUMBER 1 CONVECTION OVEN 1 SECURITY SHELVING UNIT 1 JANITORIAL MOP SINK 1 DISH ROOM SHELVING UNIT 1 THREE-COMPARTMENT SINK 1 WALL SHELF 2 SPLASH MOUNT FAUCET 1 CLEAN DISH TABLE 1 DISH WASHER 1 CONDENSATE FAN 1 DISH MACHINE BLOWER DRYER 2 VENT RISERS 1 SOILED DISH TABLE 1 DISPOSER 1 SPLASH MOUNT PRE-RINSE FAUCET	LBC METRO BY PLUMBER INTERMETRO FABRICATED T&S BRASS FABRICATED HOBART BY MECHANICAL HOBART FABRICATED FABRICATED INSINKERATOR T&S BRASS	K12ETT WEALGD LMO-E METRO NOT IN KEC CONTRACT SUPER ERECTA CUSTOM CUSTOM B-0290 CUSTOM CL44EN-BAS+BUILDUP NOT IN KEC CONTRACT BDERLCD-STDDOM CUSTOM CUSTOM CUSTOM SS-200-7-AS101 B-0133-CR-B08	0.50 0.50 0.50 0.50 0.75 0.75 0.50 0.50	36 36 42 14	(2)0.75 (2)50	2.00 FS 2.00 FS 3.00 2.00 FS 1.00 SF	DRAIN TO FLOOR SINK EXTEND WATER TO FAUCETS DRAIN TO FLOOR SINK DRAIN TO FLOOR SINK	38 39 40 41 42 43 44 45 46 47 47.1 48 49 50 51 52	(2)1/20 120-480 480 480 208	3 7.0-15.0 3 27.9 3 2.60 3 6.00	2	D D D	24 66 62 18	
1 SPARE NUMBER 1 CONVECTION OVEN 1 SECURITY SHELVING UNIT 1 JANITORIAL MOP SINK 1 DISH ROOM SHELVING UNIT 1 THREE-COMPARTMENT SINK 1 WALL SHELF 2 SPLASH MOUNT FAUCET 1 CLEAN DISH TABLE 1 DISH WASHER 1 CONDENSATE FAN 1 DISH MACHINE BLOWER DRYER 2 VENT RISERS 1 SOILED DISH TABLE 1 DISPOSER 1 SPLASH MOUNT PRE-RINSE FAUCET 1 SERVING COUNTER	LBC METRO BY PLUMBER INTERMETRO FABRICATED T&S BRASS FABRICATED HOBART BY MECHANICAL HOBART FABRICATED FABRICATED INSINKERATOR	K12ETT WEALGD LMO-E METRO NOT IN KEC CONTRACT SUPER ERECTA CUSTOM CUSTOM B-0290 CUSTOM CL44EN-BAS+BUILDUP NOT IN KEC CONTRACT BDERLCD-STDDOM CUSTOM CUSTOM CUSTOM SS-200-7-AS101	0.50	36 36 42 14	(2)0.75 (2)50	2.00 FS 2.00 FS 3.00 2.00 FS 1.00 SF	DRAIN TO FLOOR SINK EXTEND WATER TO FAUCETS DRAIN TO FLOOR SINK DRAIN TO FLOOR SINK	38 39 40 41 42 43 44 45 46 47 47.1 48 49 50 51 52 53	(2)1/20 120-480 480 480	3 7.0-15.0 3 27.9 3 2.60	2	D	24 66 62 18	JVEMÍA 5-15P FIXTURE MOUNTED DCO
1 SPARE NUMBER 1 CONVECTION OVEN 1 SECURITY SHELVING UNIT 1 JANITORIAL MOP SINK 1 DISH ROOM SHELVING UNIT 1 THREE-COMPARTMENT SINK 1 WALL SHELF 2 SPLASH MOUNT FAUCET 1 CLEAN DISH TABLE 1 DISH WASHER 1 CONDENSATE FAN 1 DISH MACHINE BLOWER DRYER 2 VENT RISERS 1 SOILED DISH TABLE 1 DISPOSER 1 SPLASH MOUNT PRE-RINSE FAUCET 1 SERVING COUNTER 1 SPARE NUMBER	LBC METRO BY PLUMBER INTERMETRO FABRICATED T&S BRASS FABRICATED HOBART BY MECHANICAL HOBART FABRICATED FABRICATED INSINKERATOR T&S BRASS FABRICATED	K12ETT VEAGD LMO-E METRO NOT IN KEC CONTRACT SUPER ERECTA CUSTOM CUSTOM B-0290 CUSTOM CL44EN-BAS+BUILDUP NOT IN KEC CONTRACT BDERLCD-STDDOM CUSTOM CUSTOM	0.50	36 36 42 14	(2)0.75 (2)50	2.00 FS 2.00 FS 3.00 2.00 FS 1.00 SF	DRAIN TO FLOOR SINK EXTEND WATER TO FAUCETS DRAIN TO FLOOR SINK DRAIN TO FLOOR SINK	38 39 40 41 42 43 44 45 46 47 47.1 48 49 50 51 52 53 54	(2)1/20 120-480 480 480 208 120	3 7.0-15.0 1-3 7.0-15.0 3 27.9 3 2.60 3 6.00 1 16.0	2	D D D	24 24 66 62 18	FIXTURE MOUNTED DCO
1 SPARE NUMBER 1 CONVECTION OVEN 1 SECURITY SHELVING UNIT 1 JANITORIAL MOP SINK 1 DISH ROOM SHELVING UNIT 1 THREE-COMPARTMENT SINK 1 WALL SHELF 2 SPLASH MOUNT FAUCET 1 CLEAN DISH TABLE 1 DISH WASHER 1 CONDENSATE FAN 1 DISH MACHINE BLOWER DRYER 2 VENT RISERS 1 SOILED DISH TABLE 1 DISPOSER 1 SPLASH MOUNT PRE-RINSE FAUCET 1 SERVING COUNTER 1 SPARE NUMBER 2 SINGLE DOOR PASS-THRU HEATED CABINET	LBC METRO BY PLUMBER INTERMETRO FABRICATED FABRICATED T&S BRASS FABRICATED HOBART BY MECHANICAL HOBART FABRICATED FABRICATED INSINKERATOR T&S BRASS FABRICATED INSINKERATOR TRUE	K12ETT VEAGD LMO-E METRO NOT IN KEC CONTRACT SUPER ERECTA CUSTOM CUSTOM CUSTOM CL44EN-BAS+BUILDUP NOT IN KEC CONTRACT BDERLCD-STDDOM CUSTOM CUSTOM CUSTOM SS-200-7-AS101 B-0133-CR-B08 CUSTOM STA1HPT-1G-1S	0.50	36 36 42 14	(2)0.75 (2)50	2.00 FS 2.00 FS 3.00 2.00 FS 1.00 SF	DRAIN TO FLOOR SINK EXTEND WATER TO FAUCETS DRAIN TO FLOOR SINK DRAIN TO FLOOR SINK	38 39 40 41 42 43 44 45 46 47 47.1 48 49 50 51 52 53 54 55	(2)1/20 120-480 480 480 208 120	3 7.0-15.0 3 27.9 3 2.60 1 16.0 1 7.30	2	D D D	24 66 62 18 SU 86	FIXTURE MOUNTED DCO NEMA 6-15P
1 SPARE NUMBER 1 CONVECTION OVEN 1 SECURITY SHELVING UNIT 1 JANITORIAL MOP SINK 1 DISH ROOM SHELVING UNIT 1 THREE-COMPARTMENT SINK 1 WALL SHELF 2 SPLASH MOUNT FAUCET 1 CLEAN DISH TABLE 1 DISH WASHER 1 CONDENSATE FAN 1 DISH MACHINE BLOWER DRYER 2 VENT RISERS 1 SOILED DISH TABLE 1 DISPOSER 1 SPLASH MOUNT PRE-RINSE FAUCET 1 SERVING COUNTER 1 SPARE NUMBER 2 SINGLE DOOR PASS-THRU HEATED CABINET 2 SINGLE DOOR PASS-THRU REFRIGERATOR	LBC METRO BY PLUMBER INTERMETRO FABRICATED T&S BRASS FABRICATED HOBART BY MECHANICAL HOBART FABRICATED FABRICATED INSINKERATOR T&S BRASS FABRICATED INSINKERATOR TRUE TRUE	K12ETT VC44GD LMO-E METRO NOT IN KEC CONTRACT SUPER ERECTA CUSTOM CUSTOM B-0290 CUSTOM CL44EN-BAS+BUILDUP NOT IN KEC CONTRACT BDERLCD-STDDOM CUSTOM CUSTOM CUSTOM SS-200-7-AS101 B-0133-CR-B08 CUSTOM STA1HPT-1G-1S STA1RPT-1G-1S	0.50	36 36 42 14	(2)0.75 (2)50	2.00 FS 2.00 FS 3.00 2.00 FS 1.00 SF	DRAIN TO FLOOR SINK EXTEND WATER TO FAUCETS DRAIN TO FLOOR SINK DRAIN TO FLOOR SINK	38 39 40 41 42 43 44 45 46 47 47.1 48 49 50 51 52 53 54 55 56	(2)1/20 120-480 480 480 208 120 208 120	3 7.0-15.0 1-3 7.0-15.0 3 27.9 3 2.60 3 6.00 1 16.0	2	D D D	24 66 62 18 SU 86 86	FIXTURE MOUNTED DCO NEMA 6-15P NEMA 5-15P
1 SPARE NUMBER 1 CONVECTION OVEN 1 SECURITY SHELVING UNIT 1 JANITORIAL MOP SINK 1 DISH ROOM SHELVING UNIT 1 THREE-COMPARTMENT SINK 1 WALL SHELF 2 SPLASH MOUNT FAUCET 1 CLEAN DISH TABLE 1 DISH WASHER 1 CONDENSATE FAN 1 DISH MACHINE BLOWER DRYER 2 VENT RISERS 1 SOILED DISH TABLE 1 DISPOSER 1 SPLASH MOUNT PRE-RINSE FAUCET 1 SERVING COUNTER 1 SPARE NUMBER 2 SINGLE DOOR PASS-THRU HEATED CABINET 2 SINGLE DOOR PASS-THRU REFRIGERATOR 1 SERVING COUNTER	LBC METRO BY PLUMBER INTERMETRO FABRICATED FABRICATED T&S BRASS FABRICATED HOBART BY MECHANICAL HOBART FABRICATED FABRICATED INSINKERATOR T&S BRASS FABRICATED INSINKERATOR TRUE	K12ETT VEAGD LMO-E METRO NOT IN KEC CONTRACT SUPER ERECTA CUSTOM CUSTOM B-0290 CUSTOM CL44EN-BAS+BUILDUP NOT IN KEC CONTRACT BDERLCD-STDDOM CUSTOM CUSTOM CUSTOM SS-200-7-AS101 B-0133-CR-B08 CUSTOM STA1HPT-1G-1S STA1RPT-1G-1S CUSTOM	0.50	36 36 42 14	(2)0.75 (2)50	2.00 FS 36 2.00 FS 36 2.00 FS 3.00 2.00 FS 2.00 FS 2.00 FS	DRAIN TO FLOOR SINK EXTEND WATER TO FAUCETS DRAIN TO FLOOR SINK DRA DRA	38 39 40 41 42 43 44 45 46 47 47.1 48 49 50 51 52 53 54 55 56 57	120-480 480 480 208 120 208 120 120	3 7.0-15.0 3 27.9 3 2.60 1 16.0 1 7.30	2	D D D P P P P P	24 66 62 18 SU 86 86 SU	FIXTURE MOUNTED DCO NEMA 6-15P NEMA 5-15P FIXTURE MOUNTED DCO
1 SPARE NUMBER 1 CONVECTION OVEN 1 SECURITY SHELVING UNIT 1 JANITORIAL MOP SINK 1 DISH ROOM SHELVING UNIT 1 THREE-COMPARTMENT SINK 1 WALL SHELF 2 SPLASH MOUNT FAUCET 1 CLEAN DISH TABLE 1 DISH WASHER 1 CONDENSATE FAN 1 DISH MACHINE BLOWER DRYER 2 VENT RISERS 1 SOILED DISH TABLE 1 DISPOSER 1 SPLASH MOUNT PRE-RINSE FAUCET 1 SERVING COUNTER 1 SPARE NUMBER 2 SINGLE DOOR PASS-THRU HEATED CABINET 2 SINGLE DOOR PASS-THRU REFRIGERATOR 1 SERVING COUNTER 1 SERVING COUNTER 1 SERVING COUNTER	LBC METRO BY PLUMBER INTERMETRO FABRICATED T&S BRASS FABRICATED HOBART BY MECHANICAL HOBART FABRICATED INSINKERATOR T&S BRASS FABRICATED INSINKERATOR TRUE TRUE FABRICATED LTI	K12ETT VEAGD LMO-E METRO NOT IN KEC CONTRACT SUPER ERECTA CUSTOM CUSTOM CUSTOM CL44EN-BAS+BUILDUP NOT IN KEC CONTRACT BDERLCD-STDDOM CUSTOM CUSTOM CUSTOM SS-200-7-AS101 B-0133-CR-B08 CUSTOM STA1HPT-1G-1S STA1RPT-1G-1S CUSTOM DI-QSP-DW-20-04	0.50	36 36 42 14	(2)0.75 (2)50	2.00 FS 36 2.00 FS 36 2.00 FS 3.00 2.00 FS 2.00 FS 2.00 FS	DRAIN TO FLOOR SINK EXTEND WATER TO FAUCETS DRAIN TO FLOOR SINK DRAIN TO FLOOR SINK	38 39 40 41 42 43 44 45 46 47 47.1 48 49 50 51 52 53 54 55 56 57 58	(2)1/20 120-480 480 480 208 120 208 120 120 120-208	3 7.0-15.0 1-3 7.0-15.0 3 27.9 3 2.60 1 16.0 1 7.30 1 3.80 1 16.0 1 14.4	2	D D D P P P P P P	24 66 62 18 SU 86 86 SU SU	FIXTURE MOUNTED DCO NEMA 6-15P NEMA 5-15P FIXTURE MOUNTED DCO NEMA 14-20P
1 SPARE NUMBER 1 CONVECTION OVEN 1 SECURITY SHELVING UNIT 1 JANITORIAL MOP SINK 1 DISH ROOM SHELVING UNIT 1 THREE-COMPARTMENT SINK 1 WALL SHELF 2 SPLASH MOUNT FAUCET 1 CLEAN DISH TABLE 1 DISH WASHER 1 CONDENSATE FAN 1 DISH MACHINE BLOWER DRYER 2 VENT RISERS 1 SOILED DISH TABLE 1 DISPOSER 1 SPLASH MOUNT PRE-RINSE FAUCET 1 SERVING COUNTER 1 SPARE NUMBER 2 SINGLE DOOR PASS-THRU HEATED CABINET 2 SINGLE DOOR PASS-THRU REFRIGERATOR 1 SERVING COUNTER 2 DROP-IN HOT/COLD WELL UNIT 2 BREATH GUARD W/ LIGHTS	LBC METRO BY PLUMBER INTERMETRO FABRICATED T&S BRASS FABRICATED HOBART BY MECHANICAL HOBART FABRICATED INSINKERATOR T&S BRASS FABRICATED INSINKERATOR TRUE TRUE FABRICATED LTI VERSA GARD	K12ETT WC44GD LMO-E METRO NOT IN KEC CONTRACT SUPER ERECTA CUSTOM CUSTOM CUSTOM CL44EN-BAS+BUILDUP NOT IN KEC CONTRACT BDERLCD-STDDOM CUSTOM CUSTOM CUSTOM SS-200-7-AS101 B-0133-CR-B08 CUSTOM STA1HPT-1G-1S STA1RPT-1G-1S CUSTOM DI-QSP-DW-20-04 CUSTOM	0.50	36 36 42 14	(2)0.75 (2)50	2.00 FS 36 2.00 FS 36 2.00 FS 3.00 2.00 FS 2.00 FS 2.00 FS 2.00 FS 2.00 FS	DRAIN TO FLOOR SINK EXTEND WATER TO FAUCETS DRAIN TO FLOOR SINK DRA DRA DRA DRA DRAIN TO FLOOR SINK	38 39 40 41 42 43 44 45 46 47 47.1 48 49 50 51 52 53 54 55 56 57 58 59	120-480 480 480 208 120 120 120 120 120 120 1	3 7.0-15.0 3 27.9 3 2.60 1 16.0 1 7.30	2	D D D P P P P P	24 66 62 18 SU 86 86 SU SU SU	FIXTURE MOUNTED DCO NEMA 6-15P NEMA 5-15P FIXTURE MOUNTED DCO NEMA 14-20P HEAT & LIGHTS
1 SPARE NUMBER 1 CONVECTION OVEN 1 SECURITY SHELVING UNIT 1 JANITORIAL MOP SINK 1 DISH ROOM SHELVING UNIT 1 THREE-COMPARTMENT SINK 1 WALL SHELF 2 SPLASH MOUNT FAUCET 1 CLEAN DISH TABLE 1 DISH WASHER 1 CONDENSATE FAN 1 DISH MACHINE BLOWER DRYER 2 VENT RISERS 1 SOILED DISH TABLE 1 DISPOSER 1 SPLASH MOUNT PRE-RINSE FAUCET 1 SERVING COUNTER 1 SPARE NUMBER 2 SINGLE DOOR PASS-THRU HEATED CABINET 2 SINGLE DOOR PASS-THRU REFRIGERATOR 1 SERVING COUNTER 2 DROP-IN HOT/COLD WELL UNIT 2 BREATH GUARD W/ LIGHTS 2 DROP-IN FROST TOP	LBC METRO BY PLUMBER INTERMETRO FABRICATED T&S BRASS FABRICATED HOBART BY MECHANICAL HOBART FABRICATED INSINKERATOR T&S BRASS FABRICATED INSINKERATOR T&S BRASS FABRICATED INSINKERATOR T&S BRASS FABRICATED TRUE TRUE FABRICATED LTI VERSA GARD HATCO	K12ETT WEALGD LMO-E METRO NOT IN KEC CONTRACT SUPER ERECTA CUSTOM CUSTOM CL44EN-BAS+BUILDUP NOT IN KEC CONTRACT BDERLCD-STDDOM CUSTOM CUSTOM CUSTOM SS-200-7-AS101 B-0133-CR-B08 CUSTOM STA1HPT-1G-1S STA1RPT-1G-1S CUSTOM DI-QSP-DW-20-04 CUSTOM FTBP-3	0.50	36 36 42 14	(2)0.75 (2)50	2.00 FS 36 2.00 FS 36 2.00 FS 3.00 2.00 FS 2.00 FS 2.00 FS 2.00 FS 2.00 FS	DRAIN TO FLOOR SINK EXTEND WATER TO FAUCETS DRAIN TO FLOOR SINK DRA DRA	38 39 40 41 42 43 44 45 46 47 47.1 48 49 50 51 52 53 54 55 56 57 58 59 60	120-480 480 480 208 120 120 120 120 120 120 1	3 7.0-15.0 1-3 7.0-15.0 3 27.9 3 2.60 1 16.0 1 7.30 1 3.80 1 16.0 1 14.4	2	D D D P P P P P P	24 24 66 62 18 SU 86 86 SU SU SU SU SU	FIXTURE MOUNTED DCO NEMA 6-15P NEMA 5-15P FIXTURE MOUNTED DCO NEMA 14-20P HEAT & LIGHTS NEMA 5-15P
1 SPARE NUMBER 1 CONVECTION OVEN 1 SECURITY SHELVING UNIT 1 JANITORIAL MOP SINK 1 DISH ROOM SHELVING UNIT 1 THREE-COMPARTMENT SINK 1 WALL SHELF 2 SPLASH MOUNT FAUCET 1 CLEAN DISH TABLE 1 DISH WASHER 1 CONDENSATE FAN 1 DISH MACHINE BLOWER DRYER 2 VENT RISERS 1 SOILED DISH TABLE 1 DISPOSER 1 SPLASH MOUNT PRE-RINSE FAUCET 1 SERVING COUNTER 1 SPARE NUMBER 2 SINGLE DOOR PASS-THRU HEATED CABINET 2 SINGLE DOOR PASS-THRU REFRIGERATOR 1 SERVING COUNTER 2 DROP-IN HOT/COLD WELL UNIT 2 BREATH GUARD W/ LIGHTS 2 DROP-IN FROST TOP 2 SELF-SERVE BREATH GUARD	LBC METRO BY PLUMBER INTERMETRO FABRICATED FABRICATED T&S BRASS FABRICATED HOBART BY MECHANICAL HOBART FABRICATED INSINKERATOR T&S BRASS FABRICATED INSINKERATOR T&S BRASS FABRICATED TRUE TRUE FABRICATED LTI VERSA GARD HATCO VERSA GARD	K12ETT WC44GD LMO-E METRO NOT IN KEC CONTRACT SUPER ERECTA CUSTOM CUSTOM CUSTOM CL44EN-BAS+BUILDUP NOT IN KEC CONTRACT BDERLCD-STDDOM CUSTOM CUSTOM CUSTOM SS-200-7-AS101 B-0133-CR-B08 CUSTOM STA1HPT-1G-1S STA1RPT-1G-1S CUSTOM DI-QSP-DW-20-04 CUSTOM	0.50	36 36 42 14	(2)0.75 (2)50	2.00 FS 36 2.00 FS 36 2.00 FS 3.00 2.00 FS 2.00 FS 2.00 FS 2.00 FS 2.00 FS	DRAIN TO FLOOR SINK EXTEND WATER TO FAUCETS DRAIN TO FLOOR SINK DRA DRA DRA DRA DRAIN TO FLOOR SINK	38 39 40 41 42 43 44 45 46 47 47.1 48 49 50 51 52 53 54 55 56 57 58 59 60 61	120-480 480 480 208 120 120 120 120 120 120 1	3 7.0-15.0 1-3 7.0-15.0 3 27.9 3 2.60 1 16.0 1 7.30 1 3.80 1 16.0 1 14.4 1 16.0	2	D D D P P P P P D	24 24 66 62 18 SU 86 86 SU SU SU SU SU SU SU	FIXTURE MOUNTED DCO NEMA 6-15P NEMA 5-15P FIXTURE MOUNTED DCO NEMA 14-20P HEAT & LIGHTS NEMA 5-15P HEAT & LIGHTS
1 SPARE NUMBER 1 CONVECTION OVEN 1 SECURITY SHELVING UNIT 1 JANITORIAL MOP SINK 1 DISH ROOM SHELVING UNIT 1 THREE-COMPARTMENT SINK 1 WALL SHELF 2 SPLASH MOUNT FAUCET 1 CLEAN DISH TABLE 1 DISH WASHER 1 CONDENSATE FAN 1 DISH MACHINE BLOWER DRYER 2 VENT RISERS 1 SOILED DISH TABLE 1 DISPOSER 1 SPLASH MOUNT PRE-RINSE FAUCET 1 SERVING COUNTER 1 SPARE NUMBER 2 SINGLE DOOR PASS-THRU HEATED CABINET 2 SINGLE DOOR PASS-THRU REFRIGERATOR 1 SERVING COUNTER 2 DROP-IN HOT/COLD WELL UNIT 2 BREATH GUARD W/ LIGHTS 2 DROP-IN FROST TOP 2 SELF-SERVE BREATH GUARD 2 MILK COOLER	LBC METRO BY PLUMBER INTERMETRO FABRICATED T&S BRASS FABRICATED HOBART BY MECHANICAL HOBART FABRICATED INSINKERATOR T&S BRASS FABRICATED INSINKERATOR T&S BRASS FABRICATED LTI VERSA GARD HATCO VERSA GARD TRUE	K12ETT WEALGD LMO-E METRO NOT IN KEC CONTRACT SUPER ERECTA CUSTOM CUSTOM CUSTOM CL44EN-BAS+BUILDUP NOT IN KEC CONTRACT BDERLCD-STDDOM CUSTOM CUSTOM CUSTOM SS-200-7-AS101 B-0133-CR-B08 CUSTOM STA1HPT-1G-1S STA1RPT-1G-1S CUSTOM DI-QSP-DW-20-04 CUSTOM FTBP-3 CUSTOM TMC-49-DS-SS-HC	0.50 0.50 0.50 0.50 0.75 0.75 0.50 0.50 0.50 0.50	36 36 42 14	(2)0.75 (2)50	2.00 FS 36 2.00 FS 36 2.00 FS 3.00 2.00 FS 2.00 FS 2.00 FS 2.00 FS 2.00 FS	DRAIN TO FLOOR SINK EXTEND WATER TO FAUCETS DRAIN TO FLOOR SINK DRA DRA DRA DRA DRAIN TO FLOOR SINK	38 39 40 41 42 43 44 45 46 47 47.1 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62	120-480 480 480 208 120 120 120 120 120 120 1	3 7.0-15.0 1-3 7.0-15.0 3 27.9 3 2.60 1 16.0 1 7.30 1 3.80 1 16.0 1 14.4 1 16.0 1 3.80	2	D D D P P P P P D D D	24 24 66 62 18 SU 86 86 SU SU SU SU SU SU SU	FIXTURE MOUNTED DCO NEMA 6-15P NEMA 5-15P FIXTURE MOUNTED DCO NEMA 14-20P HEAT & LIGHTS NEMA 5-15P
1 SPARE NUMBER 1 CONVECTION OVEN 1 SECURITY SHELVING UNIT 1 JANITORIAL MOP SINK 1 DISH ROOM SHELVING UNIT 1 THREE-COMPARTMENT SINK 1 WALL SHELF 2 SPLASH MOUNT FAUCET 1 CLEAN DISH TABLE 1 DISH WASHER 1 CONDENSATE FAN 1 DISH MACHINE BLOWER DRYER 2 VENT RISERS 1 SOILED DISH TABLE 1 DISPOSER 1 SPLASH MOUNT PRE-RINSE FAUCET 1 SERVING COUNTER 1 SPARE NUMBER 2 SINGLE DOOR PASS-THRU HEATED CABINET 2 SINGLE DOOR PASS-THRU REFRIGERATOR 1 SERVING COUNTER 2 DROP-IN HOT/COLD WELL UNIT 2 BREATH GUARD W/ LIGHTS 2 DROP-IN FROST TOP 2 SELF-SERVE BREATH GUARD 2 MILK COOLER	LBC METRO BY PLUMBER INTERMETRO FABRICATED FABRICATED T&S BRASS FABRICATED HOBART BY MECHANICAL HOBART FABRICATED INSINKERATOR T&S BRASS FABRICATED INSINKERATOR T&S BRASS FABRICATED TRUE TRUE FABRICATED LTI VERSA GARD HATCO VERSA GARD	K12ETT WE44GD LMO-E METRO NOT IN KEC CONTRACT SUPER ERECTA CUSTOM CUSTOM CUSTOM CL44EN-BAS+BUILDUP NOT IN KEC CONTRACT BDERLCD-STDDOM CUSTOM CUSTOM CUSTOM SS-200-7-AS101 B-0133-CR-B08 CUSTOM STA1HPT-1G-1S STA1RPT-1G-1S CUSTOM DI-QSP-DW-20-04 CUSTOM FTBP-3 CUSTOM TMC-49-DS-SS-HC CUSTOM	0.50 0.50 0.50 0.50 0.75 0.75 0.50 0.50 0.50 0.50	36 36 42 14	(2)0.75 (2)50	2.00 FS 36 2.00 FS 36 2.00 FS 3.00 2.00 FS 2.00 FS 2.00 FS 2.00 FS 2.00 FS	DRAIN TO FLOOR SINK EXTEND WATER TO FAUCETS DRAIN TO FLOOR SINK DRA DRA DRA DRA DRAIN TO FLOOR SINK	38 39 40 41 42 43 44 45 46 47 47.1 48 49 50 51 52 53 54 55 56 57 58 59 60 61	120-480 480 480 208 120 120 120 120 120 120 1	3 7.0-15.0 1-3 7.0-15.0 3 27.9 3 2.60 1 16.0 1 7.30 1 3.80 1 16.0 1 14.4 1 16.0 1 3.80 1 16.0 1 14.4	2	D D D P P P P P D D D	24 24 66 62 18 SU 86 86 SU SU SU SU SU SU SU	FIXTURE MOUNTED DCO NEMA 6-15P NEMA 5-15P FIXTURE MOUNTED DCO NEMA 14-20P HEAT & LIGHTS NEMA 5-15P HEAT & LIGHTS
1 SPARE NUMBER 1 CONVECTION OVEN 1 SECURITY SHELVING UNIT 1 JANITORIAL MOP SINK 1 DISH ROOM SHELVING UNIT 1 THREE-COMPARTMENT SINK 1 WALL SHELF 2 SPLASH MOUNT FAUCET 1 CLEAN DISH TABLE 1 DISH WASHER 1 CONDENSATE FAN 1 DISH MACHINE BLOWER DRYER 2 VENT RISERS 1 SOILED DISH TABLE 1 DISPOSER 1 SPLASH MOUNT PRE-RINSE FAUCET 1 SERVING COUNTER 1 SPARE NUMBER 2 SINGLE DOOR PASS-THRU HEATED CABINET 2 SINGLE DOOR PASS-THRU REFRIGERATOR 1 SERVING COUNTER 2 DROP-IN HOT/COLD WELL UNIT 2 BREATH GUARD W/ LIGHTS 2 DROP-IN FROST TOP 2 SELF-SERVE BREATH GUARD 2 MILK COOLER 2 MOBILE TRAY CART	LBC METRO BY PLUMBER INTERMETRO FABRICATED T&S BRASS FABRICATED HOBART BY MECHANICAL HOBART FABRICATED INSINKERATOR T&S BRASS FABRICATED INSINKERATOR T&S BRASS FABRICATED LTI VERSA GARD HATCO VERSA GARD TRUE	K12ETT WEALGD LMO-E METRO NOT IN KEC CONTRACT SUPER ERECTA CUSTOM CUSTOM CUSTOM CL44EN-BAS+BUILDUP NOT IN KEC CONTRACT BDERLCD-STDDOM CUSTOM CUSTOM CUSTOM SS-200-7-AS101 B-0133-CR-B08 CUSTOM STA1HPT-1G-1S STA1RPT-1G-1S CUSTOM DI-QSP-DW-20-04 CUSTOM FTBP-3 CUSTOM TMC-49-DS-SS-HC	0.50 0.50 0.50 0.50 0.75 0.75 0.50 0.50 0.50 0.50	36 36 42 14	(2)0.75 (2)50	2.00 FS 36 2.00 FS 36 3.00 3.00 2.00 FS 2.00 FS 2.00 FS 2.00 FS 2.00 FS	DRAIN TO FLOOR SINK EXTEND WATER TO FAUCETS DRAIN TO FLOOR SINK DRA DRA DRA DRA DRAIN TO FLOOR SINK	38 39 40 41 42 43 44 45 46 47 47.1 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63	120-480 480 480 208 120 120 120 120 120 120 1	3 7.0-15.0 1-3 7.0-15.0 3 27.9 3 2.60 1 16.0 1 7.30 1 3.80 1 16.0 1 14.4 1 16.0 1 3.80 1 16.0 1 14.4	2	D D D P P P P P D D D	24 24 66 62 18 SU 86 86 SU SU SU SU SU SU SU 24	FIXTURE MOUNTED DCO NEMA 6-15P NEMA 5-15P FIXTURE MOUNTED DCO NEMA 14-20P HEAT & LIGHTS NEMA 5-15P HEAT & LIGHTS
1 SPARE NUMBER 1 CONVECTION OVEN 1 SECURITY SHELVING UNIT 1 JANITORIAL MOP SINK 1 DISH ROOM SHELVING UNIT 1 THREE-COMPARTMENT SINK 1 WALL SHELF 2 SPLASH MOUNT FAUCET 1 CLEAN DISH TABLE 1 DISH WASHER 1 CONDENSATE FAN 1 DISH MACHINE BLOWER DRYER 2 VENT RISERS 1 SOILED DISH TABLE 1 DISPOSER 1 SPLASH MOUNT PRE-RINSE FAUCET 1 SERVING COUNTER 1 SPARE NUMBER 2 SINGLE DOOR PASS-THRU HEATED CABINET 2 SINGLE DOOR PASS-THRU REFRIGERATOR 1 SERVING COUNTER 2 DROP-IN HOT/COLD WELL UNIT 2 BREATH GUARD W/ LIGHTS 2 DROP-IN FROST TOP 2 SELF-SERVE BREATH GUARD 2 MILK COOLER 2 MOBILE TRAY CART 1 DOUBLE SIDED CASHIER COUNTER	LBC METRO BY PLUMBER INTERMETRO FABRICATED FABRICATED T&S BRASS FABRICATED HOBART BY MECHANICAL HOBART FABRICATED INSINKERATOR T&S BRASS FABRICATED INSINKERATOR T&S BRASS FABRICATED TRUE TRUE FABRICATED LTI VERSA GARD HATCO VERSA GARD TRUE FABRICATED	K12ETT WE44GD LMO-E METRO NOT IN KEC CONTRACT SUPER ERECTA CUSTOM CUSTOM CUSTOM CL44EN-BAS+BUILDUP NOT IN KEC CONTRACT BDERLCD-STDDOM CUSTOM CUSTOM CUSTOM SS-200-7-AS101 B-0133-CR-B08 CUSTOM STA1HPT-1G-1S STA1RPT-1G-1S CUSTOM DI-QSP-DW-20-04 CUSTOM FTBP-3 CUSTOM TMC-49-DS-SS-HC CUSTOM	0.50 0.50 0.50 0.50 0.75 0.75 0.50 0.50 0.50 0.50	36 36 42 14	(2)0.75 (2)50	2.00 FS 36 2.00 FS 36 3.00 3.00 2.00 FS 2.00 FS 2.00 FS 2.00 FS 2.00 FS	DRAIN TO FLOOR SINK EXTEND WATER TO FAUCETS DRAIN TO FLOOR SINK DRA DRA DRA DRA DRAIN TO FLOOR SINK	38 39 40 41 42 43 44 45 46 47 47.1 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63	120-480 480 480 208 120 120 120 120 120 120 1	3 7.0-15.0 1-3 7.0-15.0 3 27.9 3 2.60 1 16.0 1 14.4 1 16.0 1 14.4 1 16.0 1 3.80 1 16.0 1 14.4	2	D D D P P P P P D D D	24 24 66 62 18 SU 86 86 SU SU SU SU SU SU SU SU SU S	FIXTURE MOUNTED DCO NEMA 6-15P NEMA 5-15P FIXTURE MOUNTED DCO NEMA 14-20P HEAT & LIGHTS NEMA 5-15P HEAT & LIGHTS NEMA 5-15P HEAT & LIGHTS NEMA 5-15P

FURNISH HORIZONTAL RECEPTACLE

@ +48 AFF WHEN MOUNTED

ABOVE COUNTERTOP

CONVENIENCE FIXTURE SCHEDULE									
MARK	QUANTITY	DESCRIPTION	VOLTAGE	PHASE	AMPS	AFF	REMARKS		
DR1	4	DUPLEX CONVENIENCE RECEPTACLE	120	1	16.0	16			
DR2	5	DUPLEX CONVENIENCE RECEPTACLE	120	1	16.0		FURNISH HORIZONTAL RECEPTACLE WHEN MOUNTED ABOVE COUNTERTOP		









SCOPE DRAWINGS:

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1 Addendum #1 6-10-25

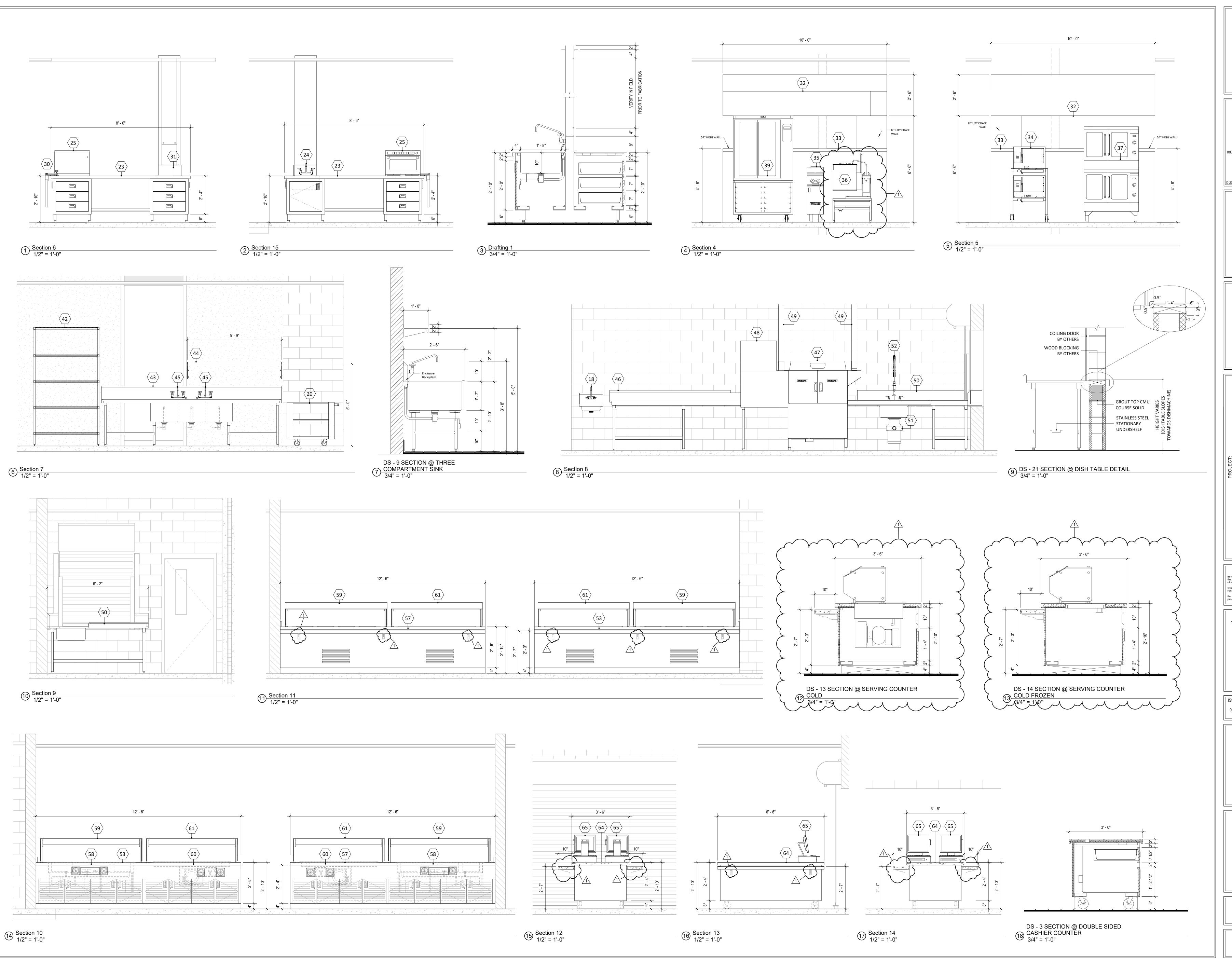
REVISIONS:

ISSUE DATE | DRAWN BY | CHECKED BY | 05/30/2025 | ML | DK

FOODSERVICE EQUIPMENT SCHEDULE

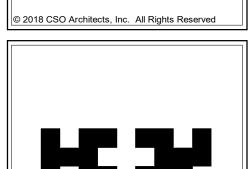
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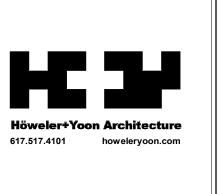
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BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
MAPLE GROVE ELEMENTARY
TIPTON LAKES BLVD, COLUMBUS, IN 47201

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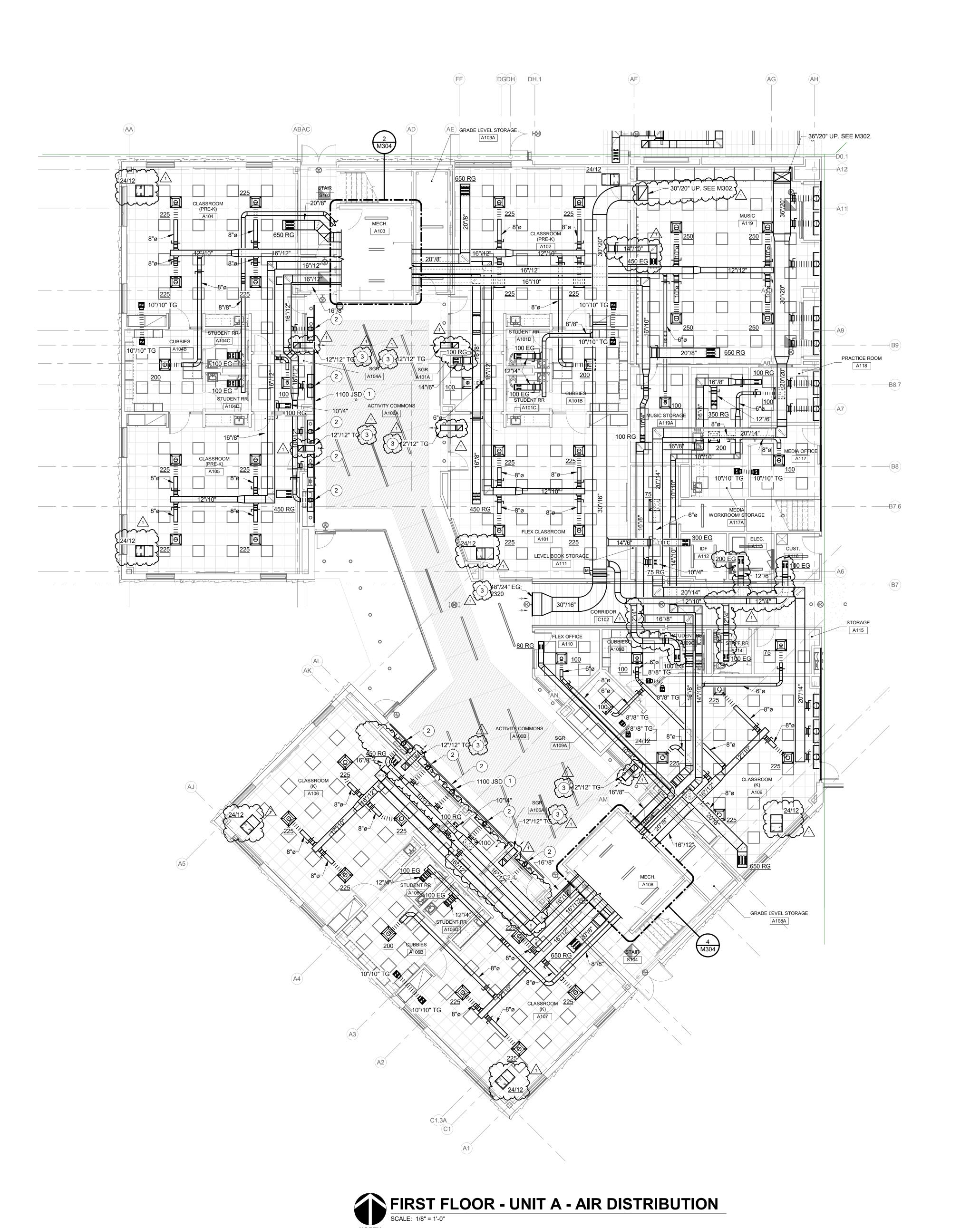
ISSUE DATE DRAWN BY CHECKED BY 05/30/2025 ML DK

FOODSERVICE DETAILS, ELEVATIONS & SECTIONS

CERTIFIED BY:

CERTIFIED BY.

K601



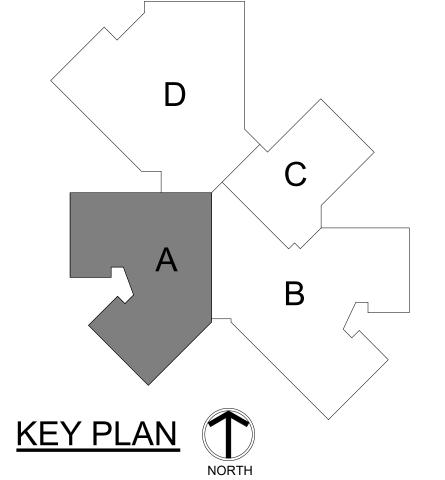
- 1. FLEX DUCT CONNECTIONS TO DIFFUSERS SHALL BE A MAXIMUM OF 3'-0" IN
- 2. BRANCH DUCTS SHALL HAVE 45° BOOT TAP FROM SIDE OF MAIN. NO SPIN-IN FITTING ALLOWED. SEE DETAIL 'A' / M401.
- 3. PROVIDE VOLUME DAMPERS IN ALL BRANCH DUCTS TO DIFFUSERS, EXHAUST GRILLES, ETC. <u>WHETHER SHOWN OR NOT</u>. THESE 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 M601 FOR CEILING DIFFUSER/EXHAUST AND RETURN REGISTER SCHEDULE.
 - 8. FOR FIRE DAMPER INSTALLATION SEE DETAIL 'E' / M401.
 - 9. ALL TRANSFER OPENINGS TO BE ABOVE CEILINGS.
- 10. ALL RETURN GRILLES TO HAVE ACOUSTICAL ELBOW. SEE PLENUM RETURN GRILLE SCHEDULE, 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 FIRE DAMPERS, MOTORIZED DAMPERS, AIR FLOW MEASURING STATIONS, AND ON BOTH SIDES OF THE REHEAT COILS. COORDINATE WITH MECHANICAL CONTRACTOR AND GENERAL TRADES CONTRACTOR.
- 13. MECHANICAL CONTRACTOR SHALL BLANK-OFF UNUSED PORTIONS OF ALL LOUVERS WHETHER SHOWN OR NOT WITH SHEET METAL AND 2" OF RIGID INSULATION PAINTED BLACK.
- 14. EACH AND EVERY EXHAUST FAN TO HAVE INSULATED, TIGHT-CLOSING ISOLATION DAMPER WHETHER SHOWN OR NOT.
- \cdots 5. 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. EXPOSED RECTANGULAR SUPPLY DUCTWORK TO BE INSULATED WITH 1 1/2", 3 LB/FT³ RIGID FIBERGLASS BOARD AND ALL-SERVICE JACKET (ASJ) FOR PAINTED FINISH. ALL EXPOSED DUCTWORK TO BE INSTALLED NEATLY TO THE SATISFACTION OF THE ENGINEER.
- \mathcal{I}_{1} 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.

GENERAL NOTES - CONTROLS:

- 1. SEE "HYDRONICS" DRAWINGS FOR THERMOSTAT LOCATIONS.
- 2. SEE "HYDRONICS" DRAWINGS FOR ADDITIONAL GENERAL NOTES.
- 3. SEE ALSO M701 FOR ADDITIONAL "CONTROLS" GENERAL NOTES.

PLAN NOTES:

- 1. 38'-0" LONG JET SLOT DIFFUSER WITH 1 1/2" SLOT, CONCEALED MUD FRAME WITH COUNTERSUNK HOLES, FLUSH ENDS AND METAL BLANK-OFFS BETWEEN ACTIVE DIFFUSER SECTIONS. LIKE PRICE MODEL CF JET SLOT. ACTIVE PLENUM SECTIONS TO PROVIDE 1,100 CFM. JET SLOT DIFFUSER TO BE MOUNTED AT 10'-4" TO CENTERLINE
- 2. 48" CUSTOM FLOW PLENUM WITH 8"ø INLET. PLENUM TO BE WIDTH OF JET SLOT DIFFUSER AND BE PROVIDED BY JET SLOT DIFFUSER MANUFACTURER. EACH PLENUM SECTION TO PROVIDE
- APPROXIMATELY 220 CFM. 3. GRILLES TO BE PRIME COAT FINISHED FOR FIELD PAINTING. ~~~~~~~~~~~~~~~<u>/1</u>\



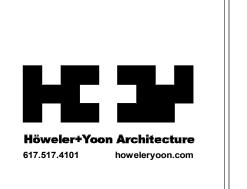


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D&A #24063



Consulting Engineers 732 North Capitol Avenue Indianapolis, IN 46204

Phone: (317) 634-4672 Fax: (317) 638-8725

SCOPE DRAWINGS:

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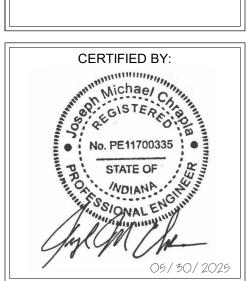
> REVISIONS: Addendum #1 06/10/2025

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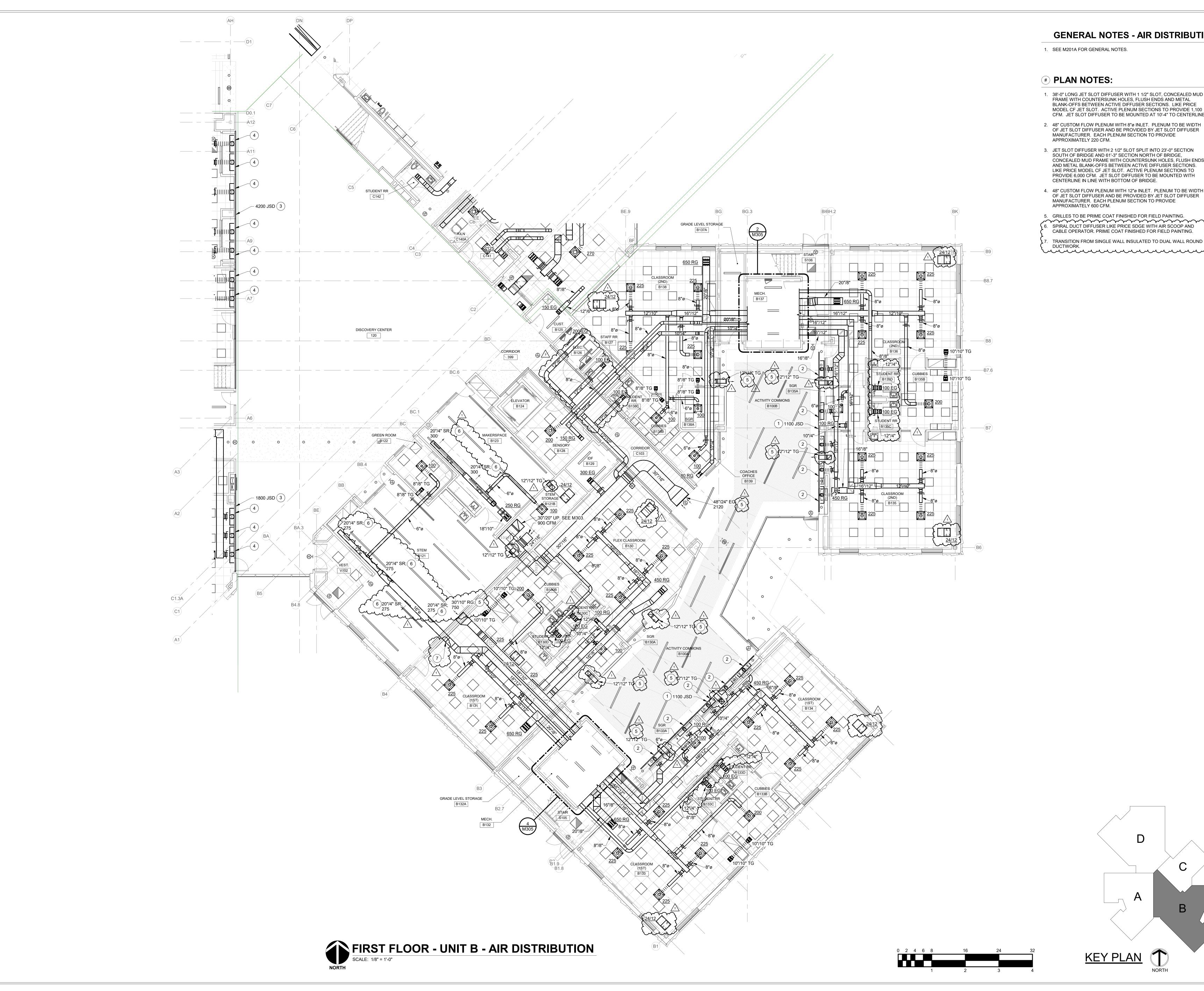
EJV

DRAWING TITLE: FIRST FLOOR PLAN - UNIT A -DISTRIBUTION

05/30/2025



DRAWING NUMBER M201A



1. SEE M201A FOR GENERAL NOTES.

PLAN NOTES:

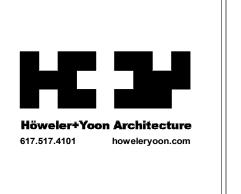
- 1. 38'-0" LONG JET SLOT DIFFUSER WITH 1 1/2" SLOT, CONCEALED MUD FRAME WITH COUNTERSUNK HOLES, FLUSH ENDS AND METAL BLANK-OFFS BETWEEN ACTIVE DIFFUSER SECTIONS. LIKE PRICE MODEL CF JET SLOT. ACTIVE PLENUM SECTIONS TO PROVIDE 1,100 CFM. JET SLOT DIFFUSER TO BE MOUNTED AT 10'-4" TO CENTERLINE.
- 2. 48" CUSTOM FLOW PLENUM WITH 8"ø INLET. PLENUM TO BE WIDTH OF JET SLOT DIFFUSER AND BE PROVIDED BY JET SLOT DIFFUSER MANUFACTURER. EACH PLENUM SECTION TO PROVIDE APPROXIMATELY 220 CFM.
- 3. JET SLOT DIFFUSER WITH 2 1/2" SLOT SPLIT INTO 23'-0" SECTION SOUTH OF BRIDGE AND 61'-3" SECTION NORTH OF BRIDGE, CONCEALED MUD FRAME WITH COUNTERSUNK HOLES, FLUSH ENDS AND METAL BLANK-OFFS BETWEEN ACTIVE DIFFUSER SECTIONS. LIKE PRICE MODEL CF JET SLOT. ACTIVE PLENUM SECTIONS TO PROVIDE 6,000 CFM. JET SLOT DIFFUSER TO BE MOUNTED WITH CENTERLINE IN LINE WITH BOTTOM OF BRIDGE.
- 4. 48" CUSTOM FLOW PLENUM WITH 12"ø INLET. PLENUM TO BE WIDTH OF JET SLOT DIFFUSER AND BE PROVIDED BY JET SLOT DIFFUSER MANUFACTURER. EACH PLENUM SECTION TO PROVIDE APPROXIMATELY 600 CFM.
- 5. GRILLES TO BE PRIME COAT FINISHED FOR FIELD PAINTING. (6. SPIRAL DUCT DIFFUSER LIKE PRICE SDGE WITH AIR SCOOP AND
- TRANSITION FROM SINGLE WALL INSULATED TO DUAL WALL ROUND 🕽

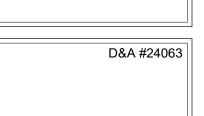
KEY PLAN NORTH



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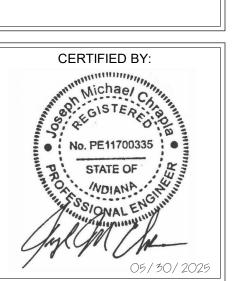
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DRAWING TITLE: FIRST FLOOR PLAN - UNIT B -DISTRIBUTION



M201B

FAMILY ROOM C166 FAMILY ROOM 6 SUPPLY GRILLE AT 12'-0" - RETURN GRILLE AT 20'-0" R; 230 WELLNESS FLEX OFFICE C150 48"/6" LBG; 1 FIRST FLOOR - UNIT C - AIR DISTRIBUTION SCALE: 1/8" = 1'-0"

GENERAL NOTES - AIR DISTRIBUTION:

1. SEE M201A FOR GENERAL NOTES.

PLAN NOTES:

 4'-0" LINEAR BAR GRILLE LIKE PRICE LBP, 6" WIDE, 15B CORE, 0° DEFLECTION, 1/2" BAR SPACING, 1" FRAME, X-X END CONDITION, SURFACE MOUNTED. CUSTOM COLOR TO BE SELECTED BY ARCHITECT. MOUNT GRILLE AT 16'-0" TO CENTERLINE OF GRILLE.

2. 4"Ø DRYER VENT UP THROUGH ROOF. SEE DETAIL 'J' / M401.

3. 12"/12" TRANSFER GRILLE WITH DUCTED ELBOW.

4. 12"/12" EXHAUST DUCT DOWN TO 8'-0" AFF. PROVIDE 6"ø TAP ON SIDE OF DUCT. KILN HOOD AND FLEXIBLE DUCT PROVIDED BY OTHER. CONNECT FLEXIBLE DUCT FROM KILN HOOD TO 6" TAP.

CONNECT FLEXIBLE DUCT FROM KILN HOOD TO 6" TA 5. 12"/12" EXHAUST DUCT UP TO <u>EF-3</u>. SEE M202C.

6. 4'-0" LINEAR BAR GRILLE LIKE PRICE LBP, 6" WIDE, 15B CORE, 0°

DEFLECTION, 1/2" BAR SPACING, 1" FRAME, X-X END CONDITION,
SURFACE MOUNTED. CUSTOM COLOR TO BE SELECTED BY
ARCHITECT. SEE PLANS FOR MOUNTING HEIGHTS.

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TIPTON LAKES BLVD, COLUMBUS, IN 47201

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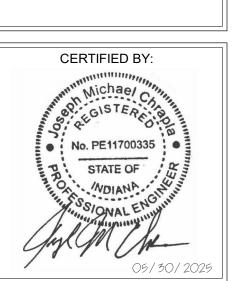
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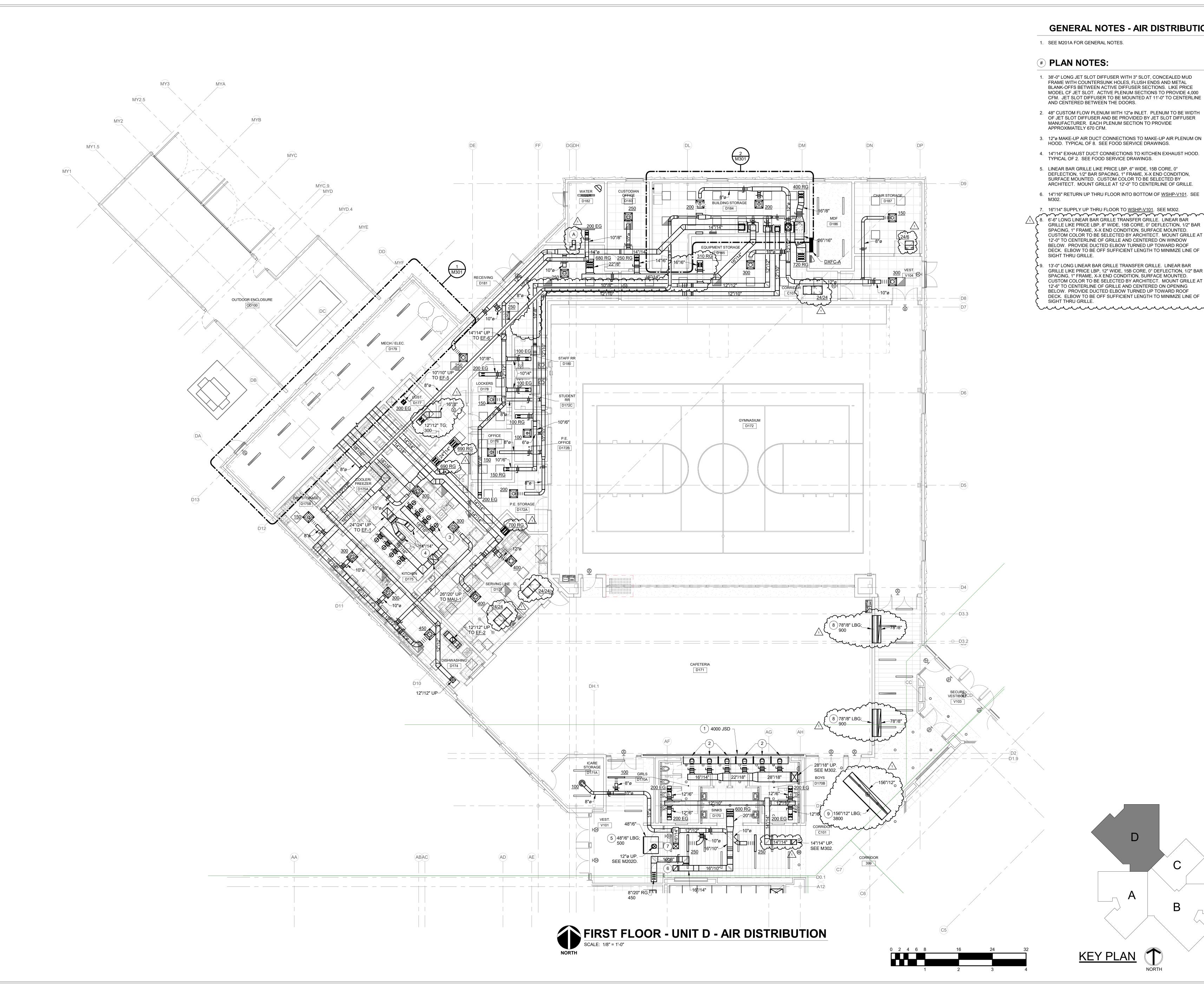
Addendum #1 06/10/2025

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FIRST FLOOR
PLAN - UNIT C AIR
DISTRIBUTION



M201C



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- 2. 48" CUSTOM FLOW PLENUM WITH 12"ø INLET. PLENUM TO BE WIDTH OF JET SLOT DIFFUSER AND BE PROVIDED BY JET SLOT DIFFUSER MANUFACTURER. EACH PLENUM SECTION TO PROVIDE
- 3. 12"ø MAKE-UP AIR DUCT CONNECTIONS TO MAKE-UP AIR PLENUM ON HOOD. TYPICAL OF 8. SEE FOOD SERVICE DRAWINGS.
- 4. 14"/14" EXHAUST DUCT CONNECTIONS TO KITCHEN EXHAUST HOOD.
- 5. LINEAR BAR GRILLE LIKE PRICE LBP, 6" WIDE, 15B CORE, 0° DEFLECTION, 1/2" BAR SPACING, 1" FRAME, X-X END CONDITION, SURFACE MOUNTED. CUSTOM COLOR TO BE SELECTED BY ARCHITECT. MOUNT GRILLE AT 12'-0" TO CENTERLINE OF GRILLE.
- 6. 14"/16" RETURN UP THRU FLOOR INTO BOTTOM OF WSHP-V101. SEE
- 7. 16"/14" SUPPLY UP THRU FLOOR TO WSHP-V101. SEE M302. 8. 6'-6" LONG LINEAR BAR GRILLE TRANSFER GRILLE. LINEAR BAR GRILLE LIKE PRICE LBP, 8" WIDE, 15B CORE, 0° DEFLECTION, 1/2" BAR SPACING, 1" FRAME, X-X END CONDITION, SURFACE MOUNTED. CUSTOM COLOR TO BE SELECTED BY ARCHITECT. MOUNT GRILLE AT 12'-0" TO CENTERLINE OF GRILLE AND CENTERED ON WINDOW BELOW. PROVIDE DUCTED ELBOW TURNED UP TOWARD ROOF DECK. ELBOW TO BE OFF SUFFICIENT LENGTH TO MINIMIZE LINE OF
- 13'-0" LONG LINEAR BAR GRILLE TRANSFER GRILLE. LINEAR BAR GRILLE LIKE PRICE LBP, 12" WIDE, 15B CORE, 0° DEFLECTION, 1/2" BAR SPACING, 1" FRAME, X-X END CONDITION, SURFACE MOUNTED. CUSTOM COLOR TO BE SELECTED BY ARCHITECT. MOUNT GRILLE AT 12'-6" TO CENTERLINE OF GRILLE AND CENTERED ON OPENING BELOW. PROVIDE DUCTED ELBOW TURNED UP TOWARD ROOF DECK. ELBOW TO BE OFF SUFFICIENT LENGTH TO MINIMIZE LINE OF



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D&A #24063

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

732 North Capitol Avenue Indianapolis, IN 46204

Phone: (317) 634-4672 Fax: (317) 638-8725

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.

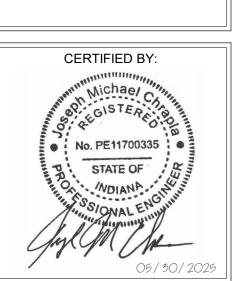
The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.

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REVISIONS: Addendum #1 06/10/2025

ISSUE DATE | DRAWN BY | CHECKED BY EJV

DRAWING TITLE: FIRST FLOOR PLAN - UNIT D -DISTRIBUTION



M201D

(DGDH) DH.1 GRADE LEVEL STORAGE GRADE LEVEL STORAGE A208A SECOND FLOOR - UNIT A - AIR DISTRIBUTION SCALE: 1/8" = 1'-0"

GENERAL NOTES - AIR DISTRIBUTION:

1. SEE M201A FOR GENERAL NOTES.

PLAN NOTES:

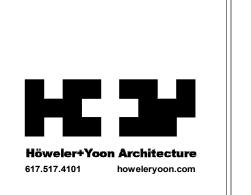
- 1. 38'-0" LONG JET SLOT DIFFUSER WITH 1 1/2" SLOT, CONCEALED MUD FRAME WITH COUNTERSUNK HOLES, FLUSH ENDS AND METAL BLANK-OFFS BETWEEN ACTIVE DIFFUSER SECTIONS. LIKE PRICE MODEL CF JET SLOT. ACTIVE PLENUM SECTIONS TO PROVIDE 1,100 CFM. JET SLOT DIFFUSER TO BE MOUNTED AT 10'-4" TO CENTERLINE.
- 48" CUSTOM FLOW PLENUM WITH 8"Ø INLET. PLENUM TO BE WIDTH OF JET SLOT DIFFUSER AND BE PROVIDED BY JET SLOT DIFFUSER MANUFACTURER. EACH PLENUM SECTION TO PROVIDE APPROXIMATELY 220 CFM.
- 3. GRILLES TO BE PRIME COAT FINISHED FOR FIELD PAINTING.





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Addendum #1 06/10/2025

ISSUE DATE | DRAWN BY | CHECKED BY

DRAWING TITLE: SECOND FLOOR PLAN - UNIT A -

EJV

05/30/2025

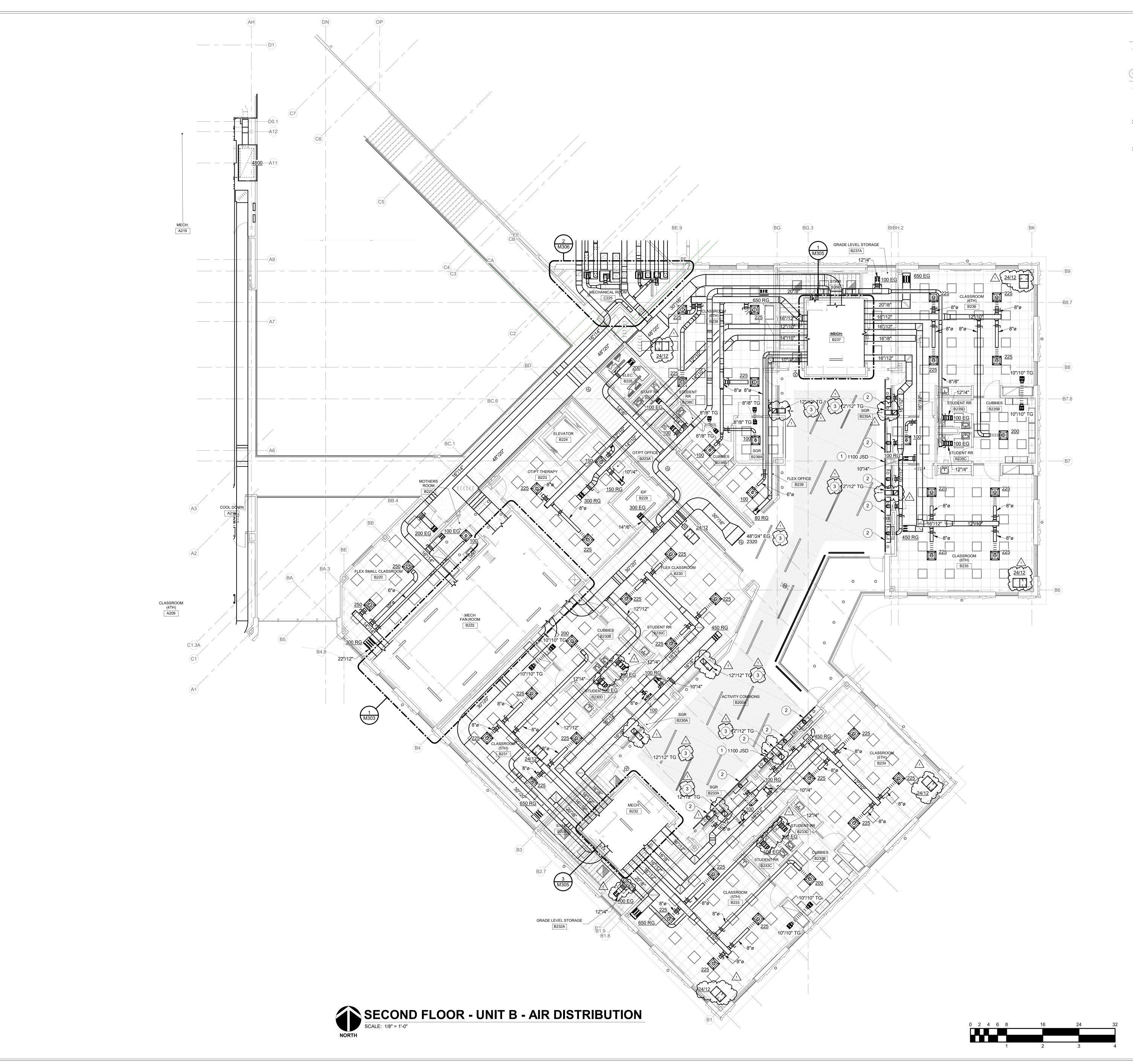
DISTRIBUTION



DRAWING NUMBER M202A

PROJECT NUMBER 2024022

KEY PLAN NORTH



1. SEE M201A FOR GENERAL NOTES.

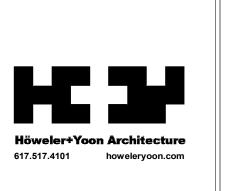
PLAN NOTES:

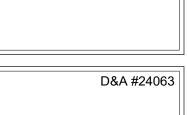
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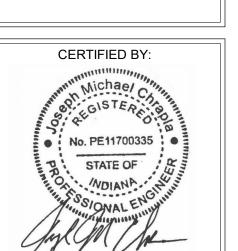
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Addendum #1 06/10/2025

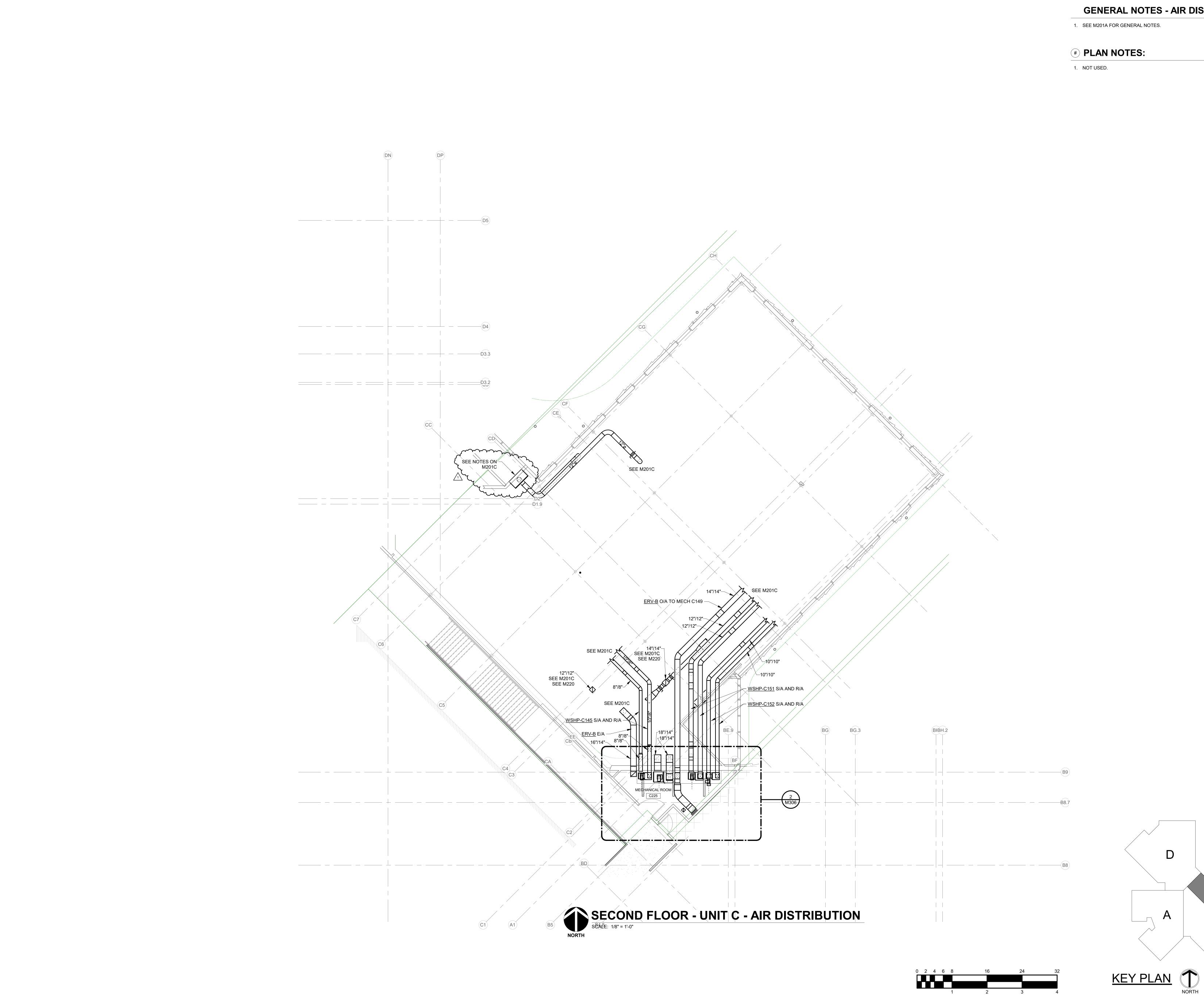
DRAWING TITLE: SECOND FLOOR PLAN - UNIT B -DISTRIBUTION

EJV



DRAWING NUMBER M202B

KEY PLAN NORTH







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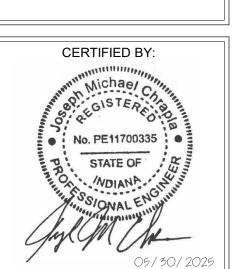
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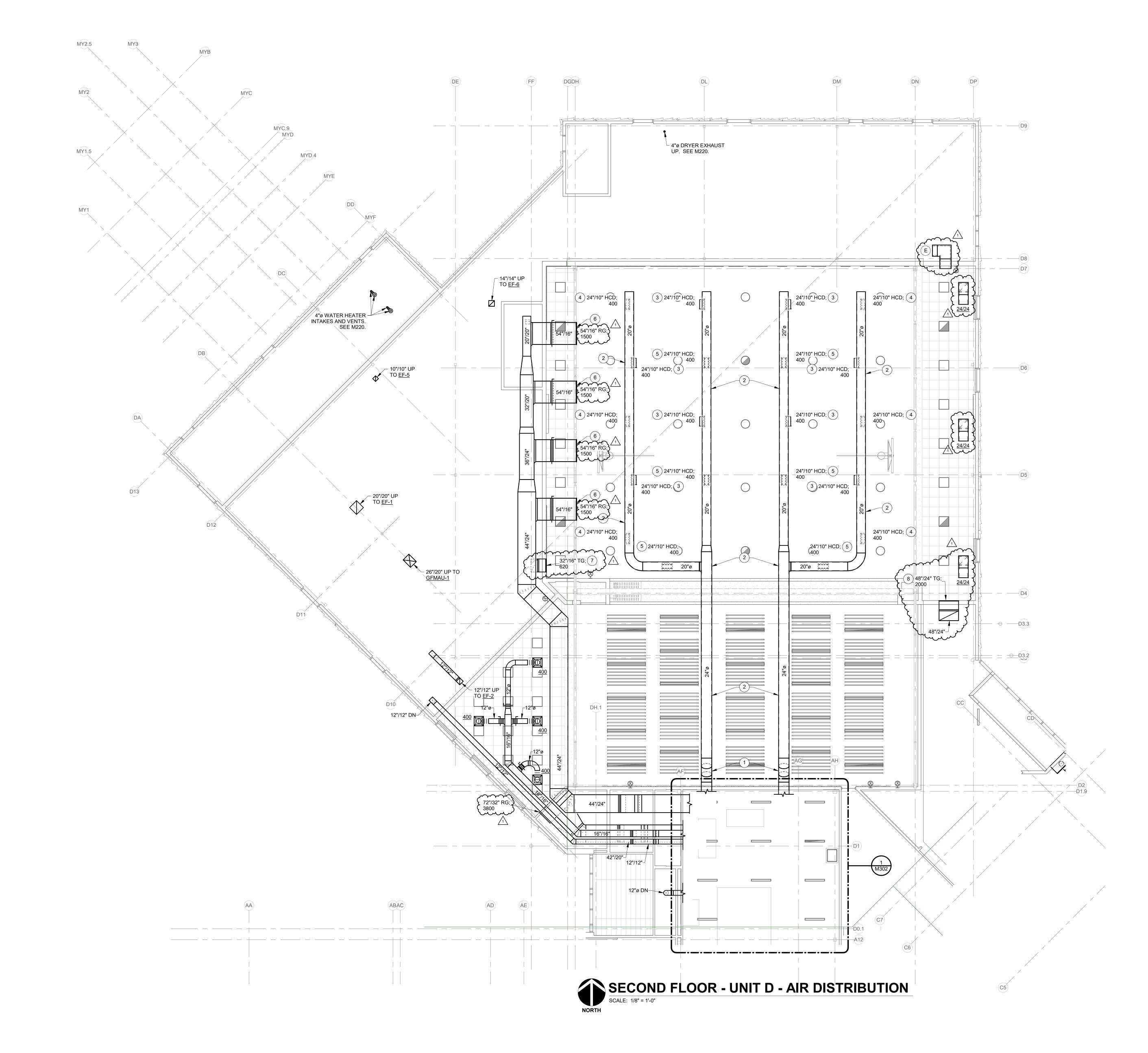
REVISIONS: Addendum #1 06/10/2025

ISSUE DATE | DRAWN BY | CHECKED BY EJV 05/30/2025

DRAWING TITLE: SECOND FLOOR PLAN - UNIT C -DISTRIBUTION



DRAWING NUMBER M202C



- ALL SUPPPLY DIFFUSERS IN GYMNASIUM SHALL BE HIGH CAPACITY DRUM (HCD) LOUVERS. LIKE PRICE MODEL HCD2 WITH SPLIT VANE, STEEL, SPIRAL DUCT FRAME AND HEAVY DUTY OPPOSED BLADE DAMPER. CUSTOM COLOR TO BE SELECTED BY ARCHITECT. CONFIRM SPIRAL DUCT FRAME SIZES WITH DUAL WALL ROUND DUCTOWRK OUTER DIAMETER DIMENSIONS.
- 2. SEE ALSO M201A FOR ADDITIONAL GENERAL NOTES.

PLAN NOTES:

- 1. OFFSET DUCTWORK UP INTO ROOF JOIST WEBBING.
- ROUTE DUAL WALL ROUND DUCTWORK THRU JOIST WEBBING. COORDINATE PATHWAY WITH ROOF JOIST MANUFACTURER. SEE STRUCTURAL DRAWINGS.
- 3. HIGH CAPACITY DRUM (HCD) LOUVER TO BE INSTALLED 30° DOWN FROM HORIZONTAL.
- 4. HIGH CAPACITY DRUM (HCD) LOUVER TO BE INSTALLED 60° DOWN FROM HORIZONTAL.
- HIGH CAPACITY DRUM (HCD) LOUIVER TO BE INSTALLED 90° DOWN
- HIGH CAPACITY DRUM (HCD) LOUVER TO BE INSTALLED 90° DOWN FROM HORIZONTAL.
- 6. GRILLES TO BE PRIME COAT FINISHED FOR FIELD PAINTING.

 7. 32"/16" TRANSFER GRILLE. GRILLE TO BE MOUNTED ABOVE
 ACOUTICAL PANELS AT APPROX. 17'-0" TO CENTERLINE OF GRILLE.
 PROVIDE DUCTED ELBOW TURNED UP TOWARD ROOF DECK. ELBOW
 TO BE OFF SUFFICIENT LENGTH TO MINIMIZE LINE OF SIGHT THRU
 GRILLE. GRILLE TO BE PRIME COAT FINISHED FOR FIELD PAINTING.
- 16'-0" TO CENTERLINE OF GRILLE. PROVIDE DUCTED ELBOW TURNED UP TOWARD ROOF DECK. ELBOW TO BE OFF SUFFICIENT LENGTH TO-MINIMIZE LINE OF SIGHT THRU GRILLE. GRILLE TO BE PRIME COAT FINISHED FOR FIELD PAINTING.

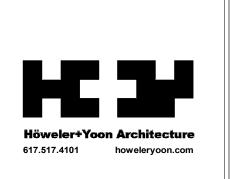
48"/24" TRANSFER GRILLE. GRILLE TO BE MOUNTED AT APPROX.





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BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
MAPLE GROVE ELEMENTAR TIPTON LAKES BLVD, COLUMBUS, IN 47201

SCOPE DRAWINGS:

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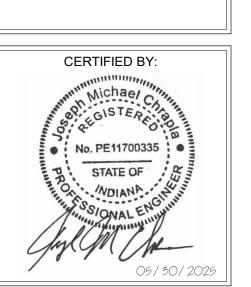
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REVISIONS:
Addendum #1 06/10/2025

ISSUE DATE DRAWN BY CHECKED BY 05/30/2025 EJV JMC

SECOND FLOOR
PLAN - UNIT D AIR
DISTRIBUTION



DRAWING NUMBER

M202D

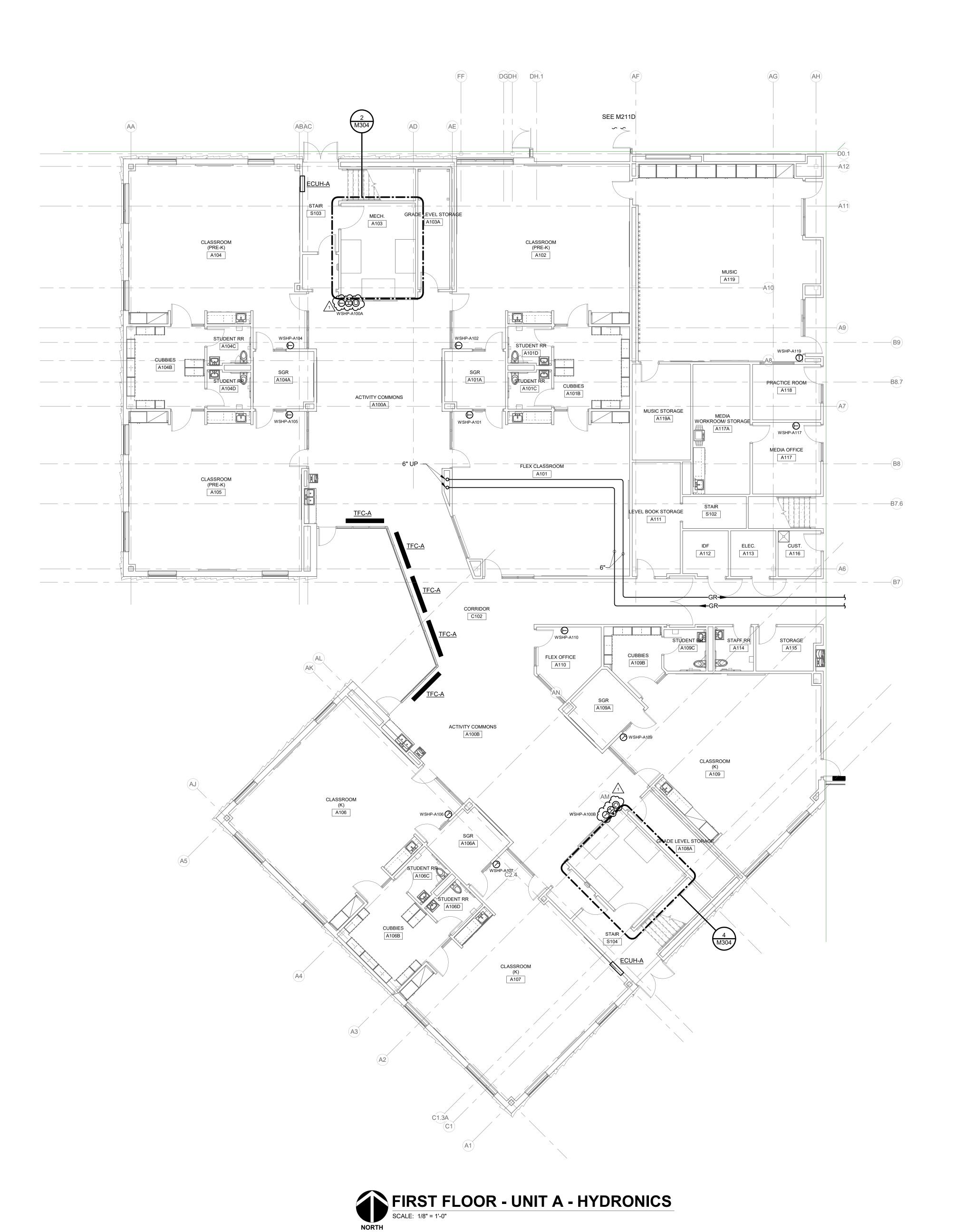
PROJECT NUMBER

KEY PLAN

NORTH

PROJECT NUMBER

2024022





- 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.
- SYSTEM AND WHERE SHOWN ON DRAWINGS. SEE DETAILS 'D', 'E' & 'F' / M411.

4. PROVIDE AIR VENTS WHEREVER REQUIRED TO REMOVE AIR FROM

- 5. ROUTE BRANCH GS & GR PIPING TO EQUIPMENT WITH COILS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING, FLUSHING AND FILLING OF PIPING AND SYSTEMS AS REQUIRED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CHEMICAL TREATMENT OF SYSTEMS.
- 8. ALL CONDENSATE DRAINS SHALL TERMINATE WITH 90° ELBOW DIRECTLY OVER DRAIN. ENSURE DRAIN DOES NOT SPLASH ONTO SURROUNDING FLOOR AREA.
- 9. ALL VALVES MUST BE ACCESSIBLE. PROVIDE ACCESS PANEL FOR ACCESS TO VALVES LOCATED ABOVE HARD CEILINGS.
- 10. NO PULLED TEE'S ALLOWED. USE MANUFACTURED TEE'S ONLY.11. CONTRACTOR SHALL PROVIDE ALL REQUIRED GAS VENT PIPING WHETHER SHOWN OR NOT.
- 12. ALL VENT LINES SHALL TERMINATE OUTSIDE OF BUILDING AT 24" ABOVE PARAPET WITH MUSHROOM CAP AND INSECT SCREEN.
- 13. GAS VENT PIPING SHALL BE BLACK STEEL.
- COORDINATE COIL CONNECTIONS FOR ALL EQUIPMENT WITH MANUFACTURER PRIOR TO ORDERING.
- 15. REFERENCE M410 SERIES DRAWINGS FOR TYPICAL AND SPECIFIC INSTALLATION REQUIREMENTS FOR EQUIPMENT, ETC.
- 16. SEE ALSO 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.
- ALL WIRING TO THERMOSTATS SHALL BE ROUTED CONCEALED. WIREMOLD IS NOT ACCEPTABLE.
- 4. TEMPERATURE CONTROL CONTRACTOR COORDINATE ALL REQUIRED LOCATIONS OF THERMOWELLS WITH MECHANICAL CONTRACTOR.
- 5. 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.
- 6. SEE ALSO M701 FOR ADDITIONAL GENERAL NOTES.

KEY PLAN NORTH

PLAN NOTES:

1. NOT USED.





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BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION

MAPLE GROVE ELEMENTAR

TIPTON LAKES BLVD. COLUMBUS. IN 47201

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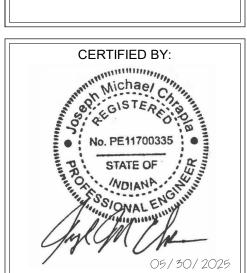
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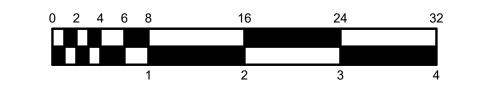
EJV

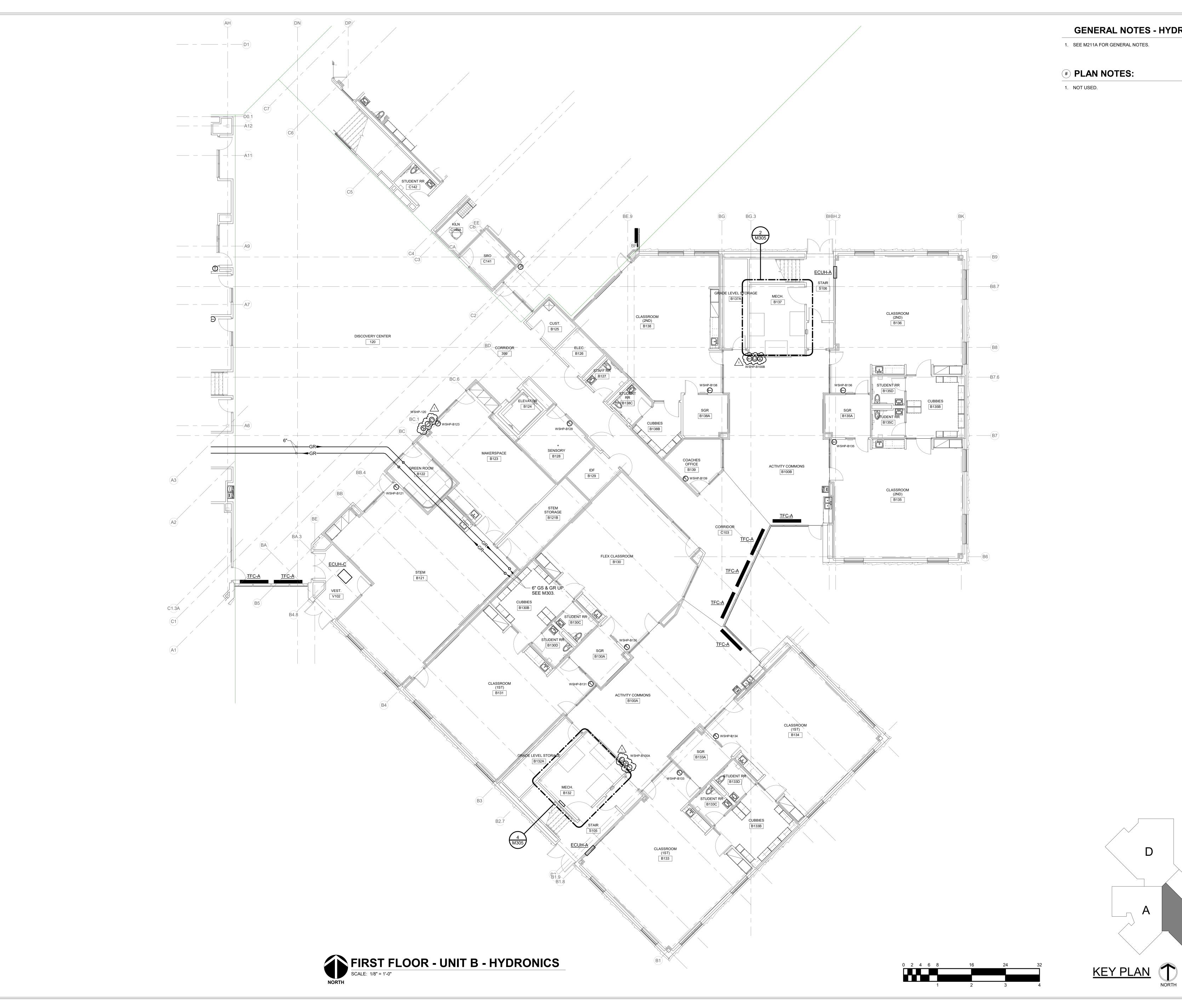
05/30/2025

FIRST FLOOR
PLAN - UNIT A HYDRONICS



M211A





GENERAL NOTES - HYDRONICS:

1. SEE M211A FOR GENERAL NOTES.

PLAN NOTES:











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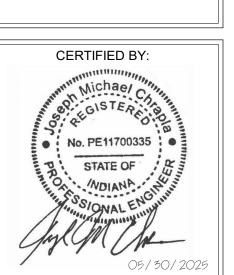
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ISSUE DATE | DRAWN BY | CHECKED BY EJV 05/30/2025

DRAWING TITLE: FIRST FLOOR PLAN - UNIT B -HYDRONICS



M211B



GENERAL NOTES - HYDRONICS:

1. SEE M211A FOR GENERAL NOTES.

PLAN NOTES:

WBCSC TOGETHER WE LEARN

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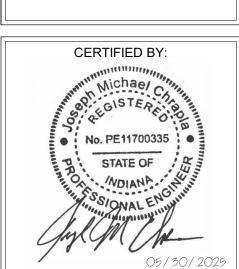
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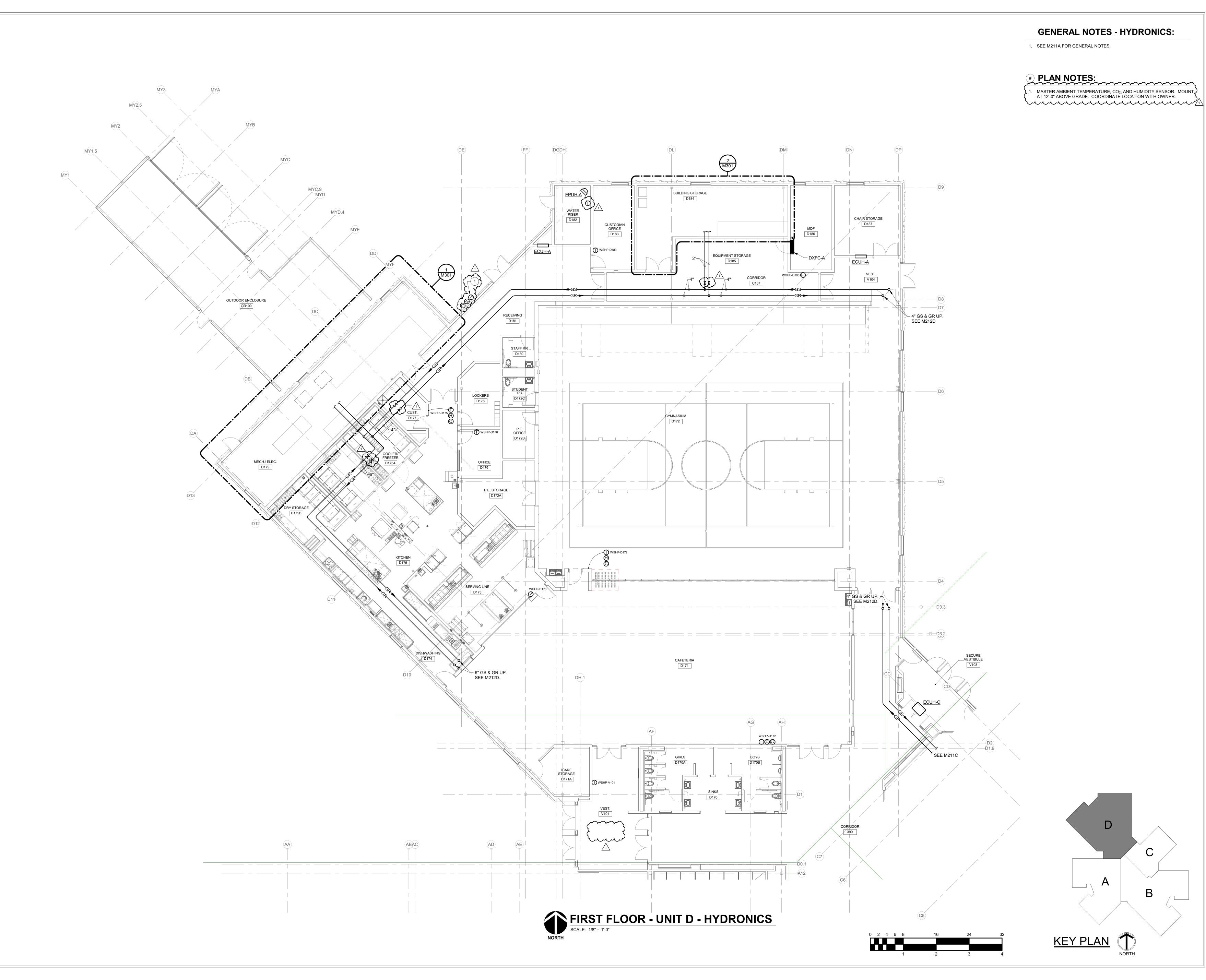
DRAWING TITLE: FIRST FLOOR PLAN - UNIT C -HYDRONICS



DRAWING NUMBER M211C

PROJECT NUMBER 2024022

KEY PLAN NORTH



GENERAL NOTES - HYDRONICS:

MASTER AMBIENT TEMPERATURE, CO2, AND HUMIDITY SENSOR. MOUNT AT 12'-0" ABOVE GRADE. COORDINATE LOCATION WITH OWNER.



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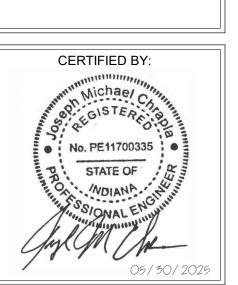
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ISSUE DATE | DRAWN BY | CHECKED BY EJV 05/30/2025

DRAWING TITLE: FIRST FLOOR PLAN - UNIT D -HYDRONICS



DRAWING NUMBER M211D PROJECT NUMBER 2024022



1. SEE M211A FOR GENERAL NOTES.

PLAN NOTES:

1. NOT USED.





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BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION

MAPLE GROVE ELEMENTAR

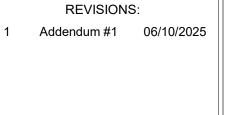
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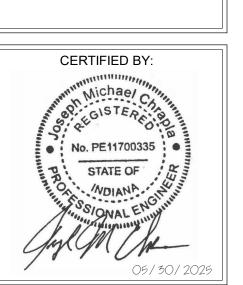
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ISSUE DATE DRAWN BY CHECKED BY 05/30/2025 EJV JMC

SECOND FLOOR
PLAN - UNIT A HYDRONICS

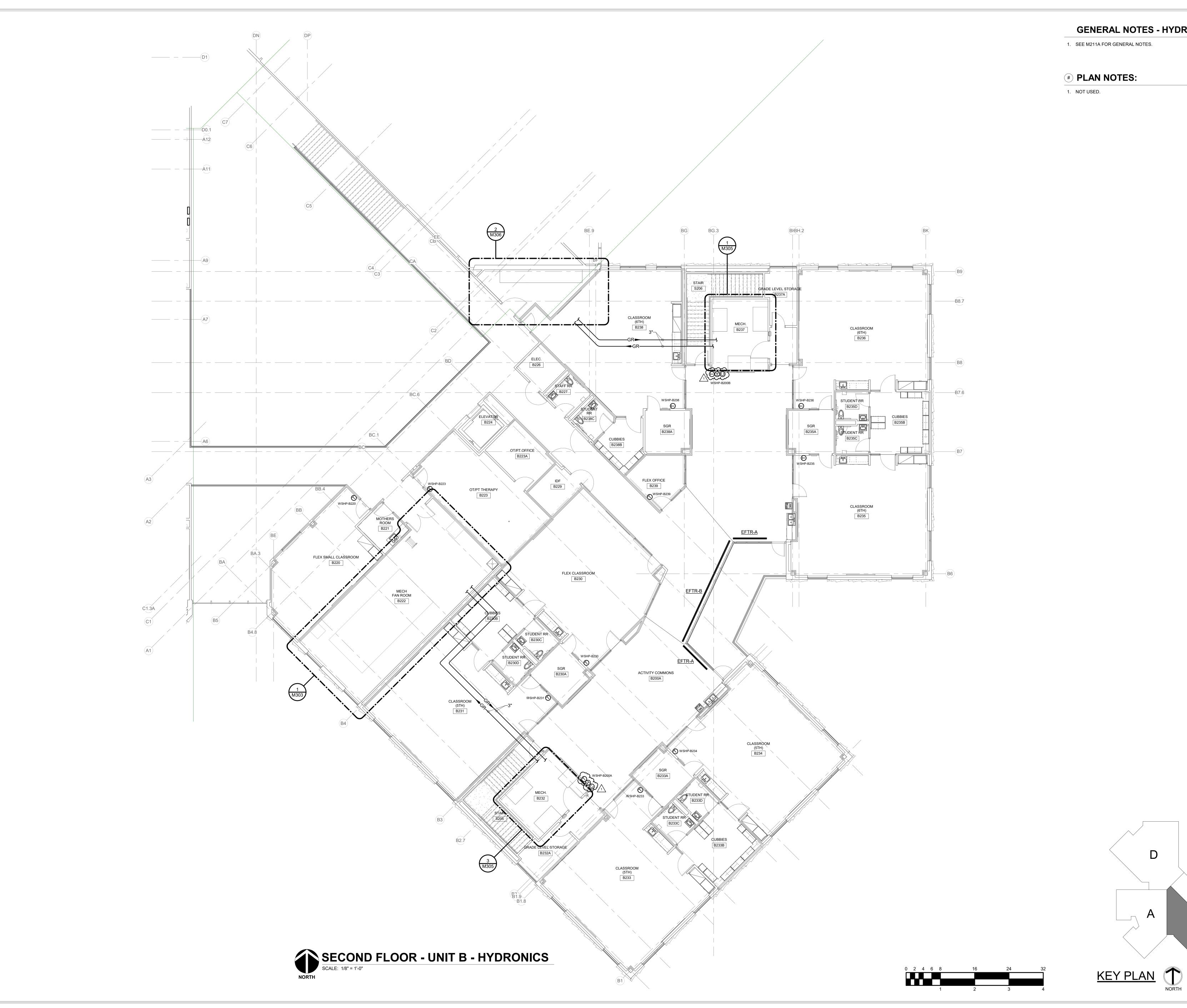


DRAWING NUMBER
M212A

PROJECT NUMBER

PROJECT NUMBER 2024022

KEY PLAN NORTH





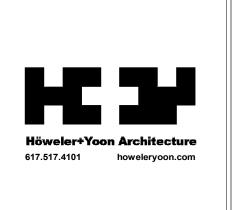
1. SEE M211A FOR GENERAL NOTES.

PLAN NOTES:





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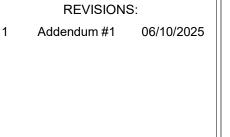
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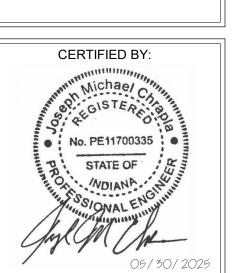
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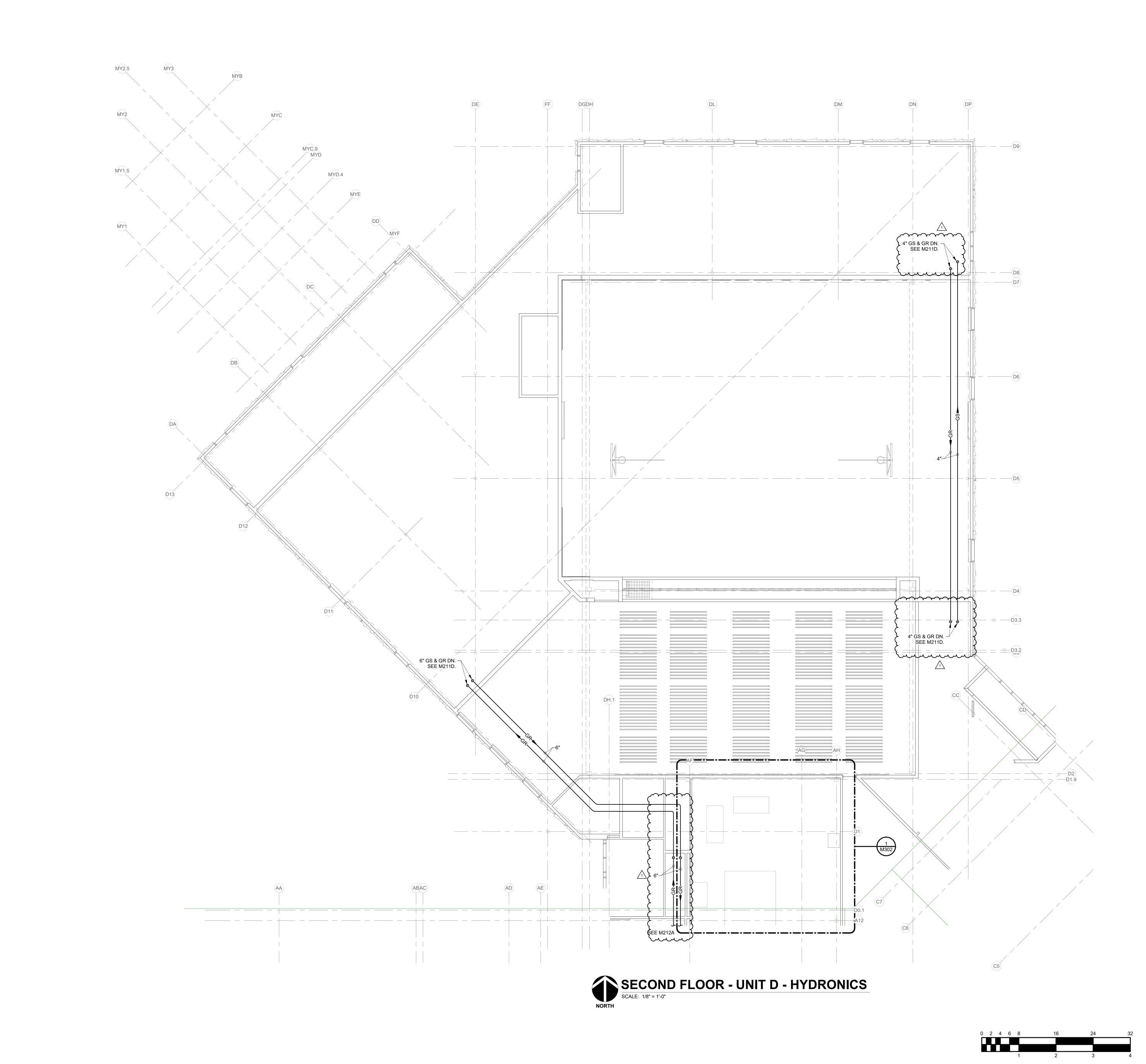


ISSUE DATE | DRAWN BY | CHECKED BY EJV 05/30/2025

DRAWING TITLE: SECOND FLOOR PLAN - UNIT B -**HYDRONICS**



DRAWING NUMBER M212B



GENERAL NOTES - HYDRONICS:

1. SEE M211A FOR GENERAL NOTES.

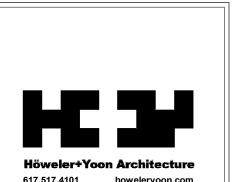
PLAN NOTES:

1. NOT USED.





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BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION

MAPLE GROVE ELEMENTARY

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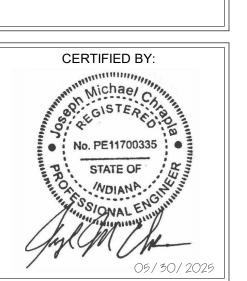
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Addendum #1 06/10/2025

REVISIONS:

ISSUE DATE DRAWN BY CHECKED BY 05/30/2025 EJV JMC

SECOND FLOOR
PLAN - UNIT D HYDRONICS



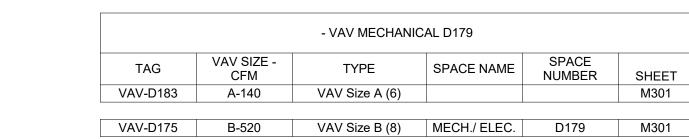
DRAWING NUMBER
M212D

PROJECT NUMBER

KEY PLAN

PROJECT NUMBER

2024022



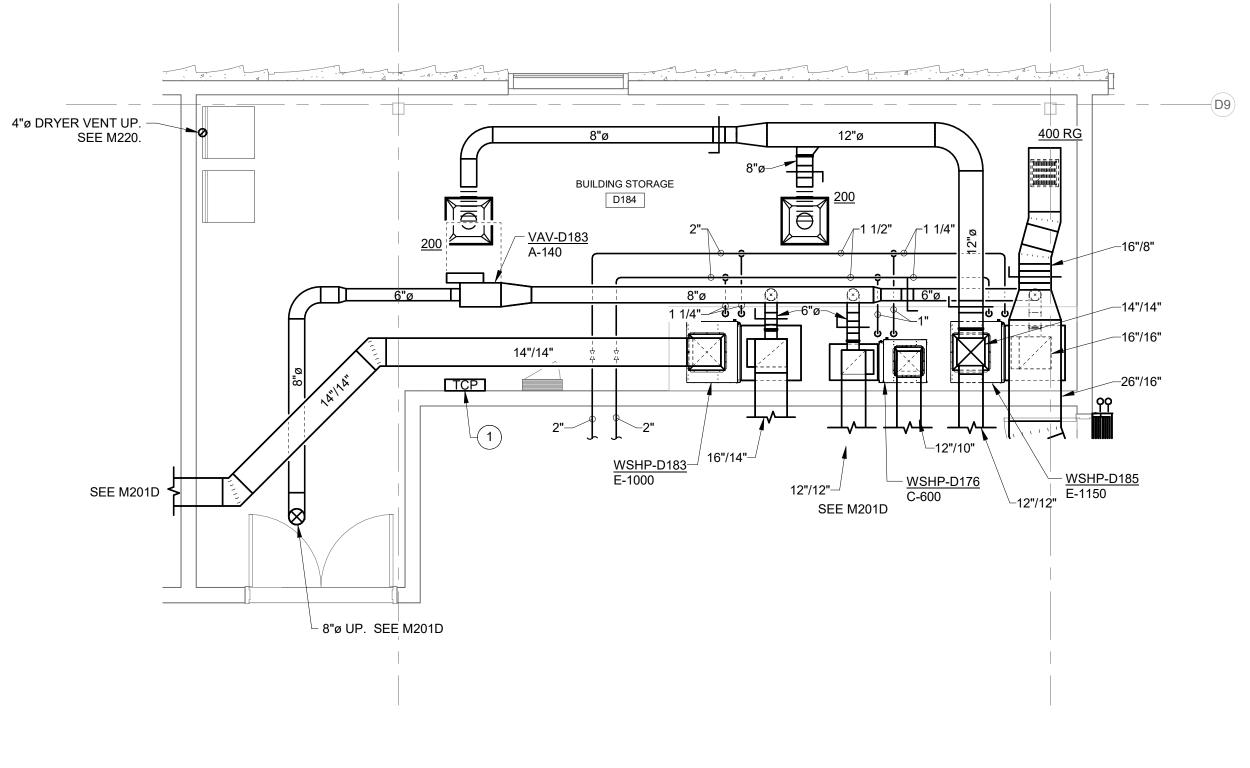
	- WSHF	P MECHANICAL D)179	
TAG	WSHP TYPE	SPACE NAME	SPACE NUMBER	SHEE
WSHP-D173	D-800	MECH./ ELEC.	D179	M30
WSHP-D175	G-1800	MECH./ ELEC.	D179	M30
				•
WSHP-D176	C-600	BUILDING STORAGE	D184	M30
WSHP-D183	E-1000	BUILDING STORAGE	D184	M30
WSHP-D185	E-1150	BUILDING STORAGE	D184	M30

GENERAL NOTES:

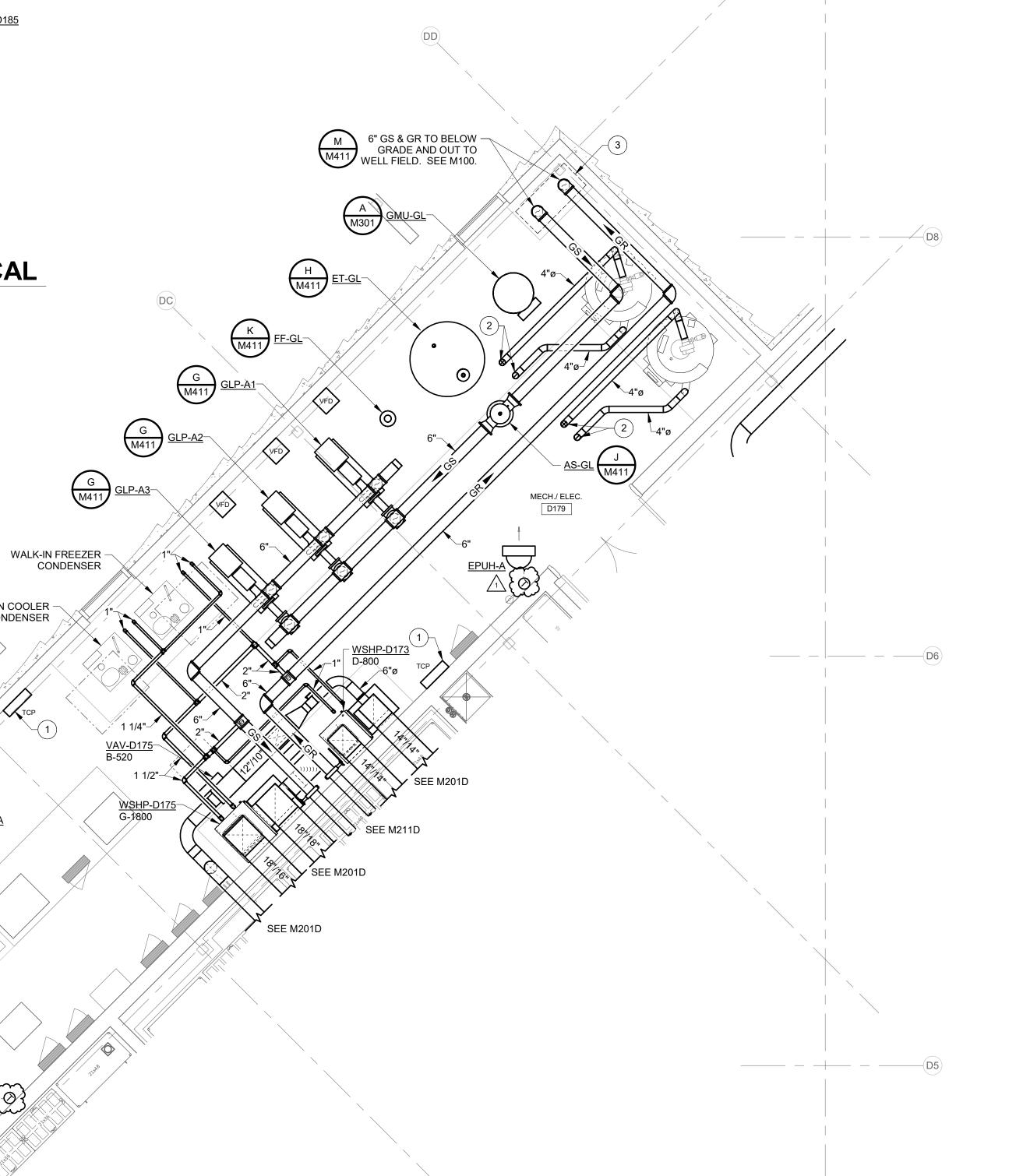
- 1. INSTALL ALL ACTUATORS SO THAT THEY ARE ACCESSIBLE FROM A 10'-0" LADDER.
- 2. MOUNT ALL VFD'S FOR PUMPS ON UNISTRUT OR WALL.
- 3. SEE M702 GROUND LOOP SYSTEM SCHEMATIC.
- 4. ALL CONTROL DAMPERS BY DIVISION 23 33 00.
- 5. ALL CONTROL DAMPERS THAT ARE EXPOSED TO AMBIENT CONDITIONS ON ONE SIDE SHALL BE INSULATED DAMPERS.
- 6. SEE M201A AND M211A FOR ADDITIONAL GENERAL NOTES.

PLAN NOTES:

- TEMPERATURE CONTROL PANEL (TCP).
- 2. INTAKE AND VENT PIPING FROM DOMESTIC WATER HEATER UP THRU ROOF AND TERMINATE WITH CONCENTRIC VENT. SEE DETAIL 'G' /
- FLUSHING STATION. PROVIDE SERVICE PORTS AND MANUAL ISOLATION VALVES AT THIS LOCATION. SEE SCHEMATIC ON M702.

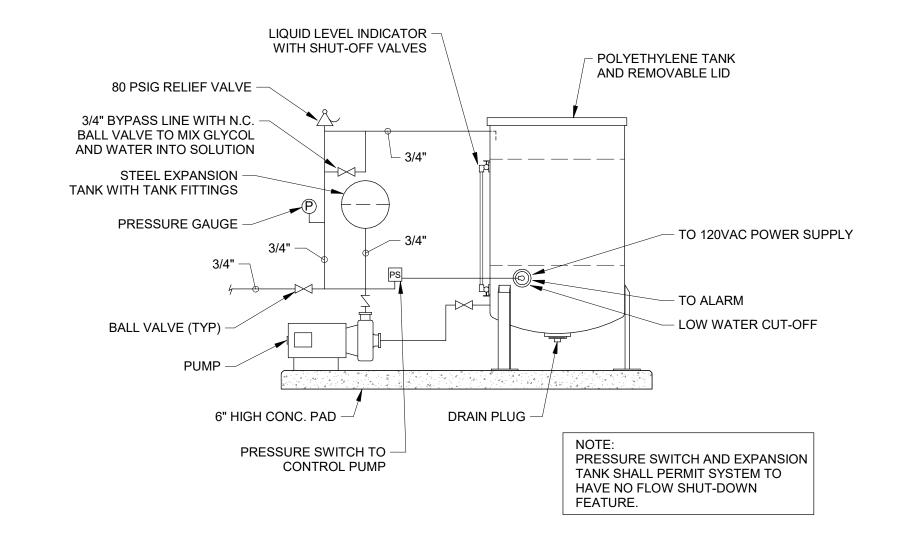


2 UNIT D - ENLARGED BUILDING STORAGE D184 - MECHANICAL SCALE: 1/4" = 1'-0"

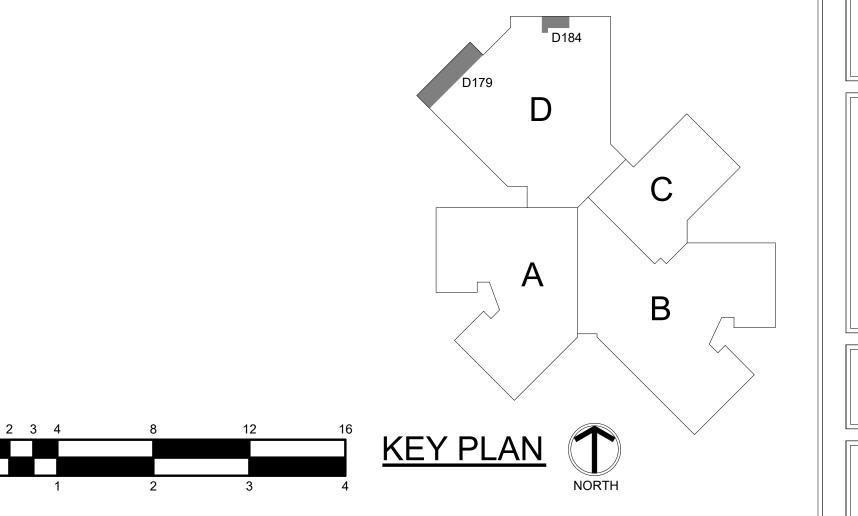


UNIT D - ENLARGED MECHANICAL ROOM D179 - MECHANICAL

WALK-IN COOLER — CONDENSER

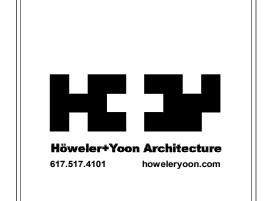


A GLYCOL MAKE-UP SYSTEM











SCOPE DRAWINGS:

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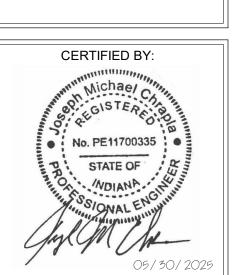
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REVISIONS: Addendum #1 06/10/2025

ISSUE DATE | DRAWN BY | CHECKED BY 05/30/2025

DRAWING TITLE: UNIT D -**ENLARGED** MECHANICAL ROOMS -**MECHANICAL**



DRAWING NUMBER M301

- VAV MECHANICAL A219								
TAG	VAV SIZE - CFM	TYPE	SPACE NAME	SPACE NUMBER	SHEET			
VAV-D171	E-1800	VAV Size E (14)			M302			
VAV-120	D-1200	VAV Size D (12)	MECH.	A219	M302			
VAV-D172	E-2000	VAV Size E (14)	MECH.	A219	M302			
VAV-V101	A-150	VAV Size A (6)	MECH.	A219	M302			

SEE M202D

- WSHP MECHANICAL A219									
TAG	WSHP TYPE	SPACE NAME	SPACE NUMBER	SHEET					
WSHP-120	L-6000	MECH.	A219	M302					
WSHP-D171	L-5600	MECH.	A219	M302					
WSHP-D172	M-8000	MECH.	A219	M302					
WSHP-V101	E-1200	MECH.	A219	M302					

GENERAL NOTES:

1. SEE M301 FOR GENERAL NOTES.

PLAN NOTES:

1. RETURN GRILLE TO BE INSTALLED 11'-0" AFF TO CENTERLINE OF GRILLE. GRILLE TO BE PRIME COAT FINISHED FOR FIELD PAINTING. INTERNALLY LINE RETURN PLENUM ON BACK OF RETURN GRILLE WITH

1" ACOUSTICAL LINING.

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BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION

MAPLE GROVE ELEMENTARY

TIPTON LAKES BLVD, COLUMBUS, IN 47201

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Addendum #1 06/10/2025

ISSUE DATE DRAWN BY CHECKED BY 05/30/2025 JMC JMC

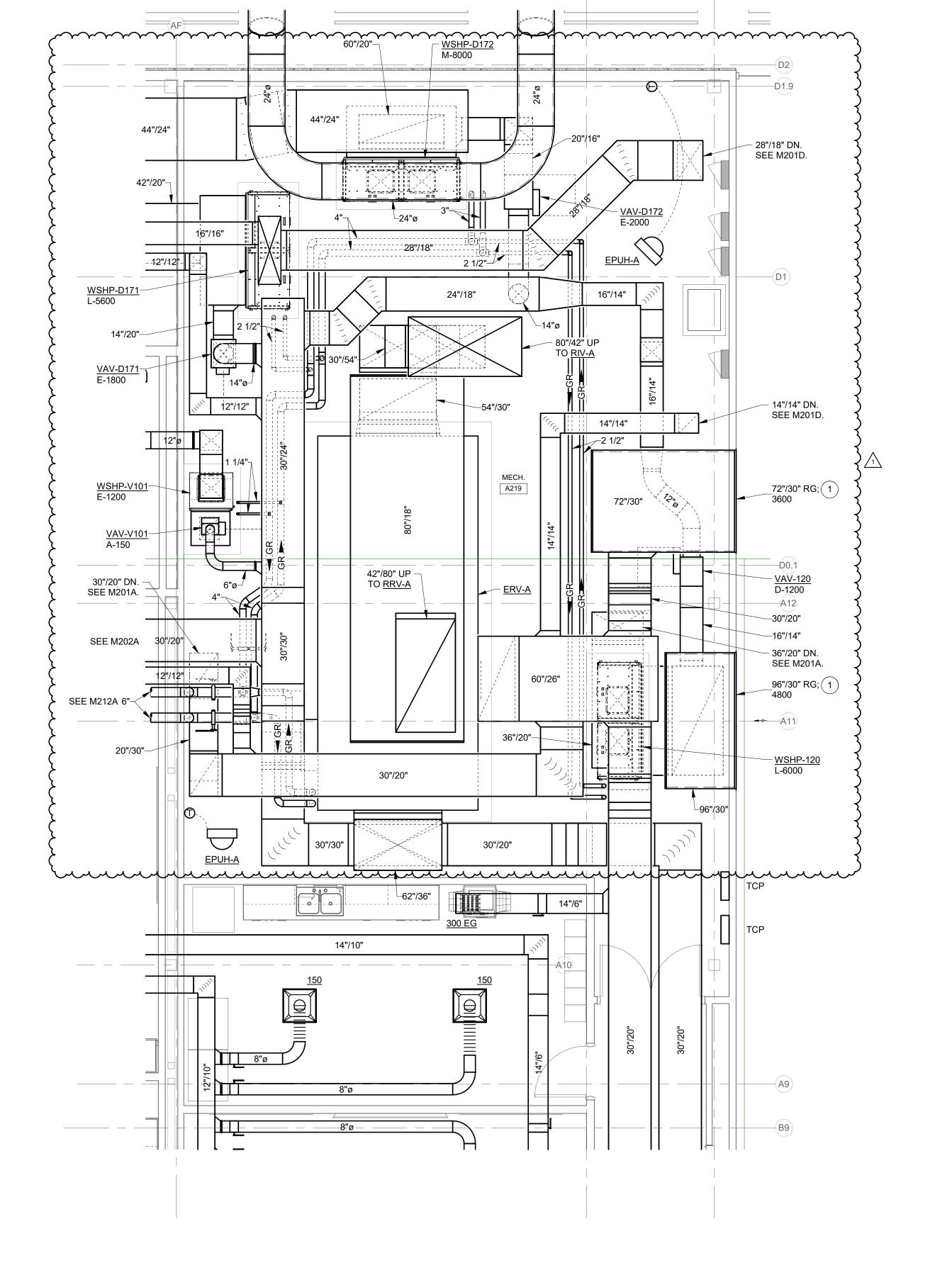
UNIT A ENLARGED
MECHANICAL
ROOM A219 MECHANICAL



M302

PROJECT NUMBER 2024022

KEY PLAN
NORTH



SEE M202D



		- VAV MECHANIC	AL B222		
TAG	VAV SIZE - CFM	TYPE	SPACE NAME	SPACE NUMBER	SHEET
VAV-B123	B-450	VAV Size B (8)	MECH FAN ROOM	B222	M303
VAV-B220	A-300	VAV Size A (6)	MECH FAN ROOM	B222	M303

	- WSHF	P MECHANICAL E	3222	
TAG	WSHP TYPE	SPACE NAME	SPACE NUMBER	SHEET
WSHP-B123	P-700	MECH FAN ROOM	B222	M303
WSHP-B220	C-600	MECH FAN ROOM	B222	M303

GENERAL NOTES:

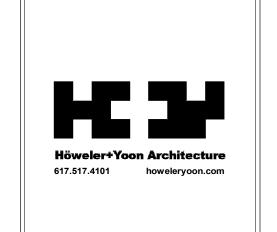
1. SEE M301 FOR ADDITIONAL GENERAL NOTES.

PLAN NOTES:

1. NOT USED.



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D ₹ 50

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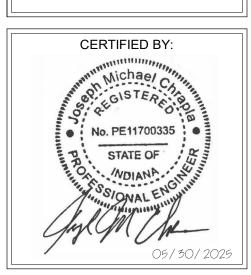
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ISSUE DATE | DRAWN BY | CHECKED BY

JMC 05/30/2025 DRAWING TITLE:

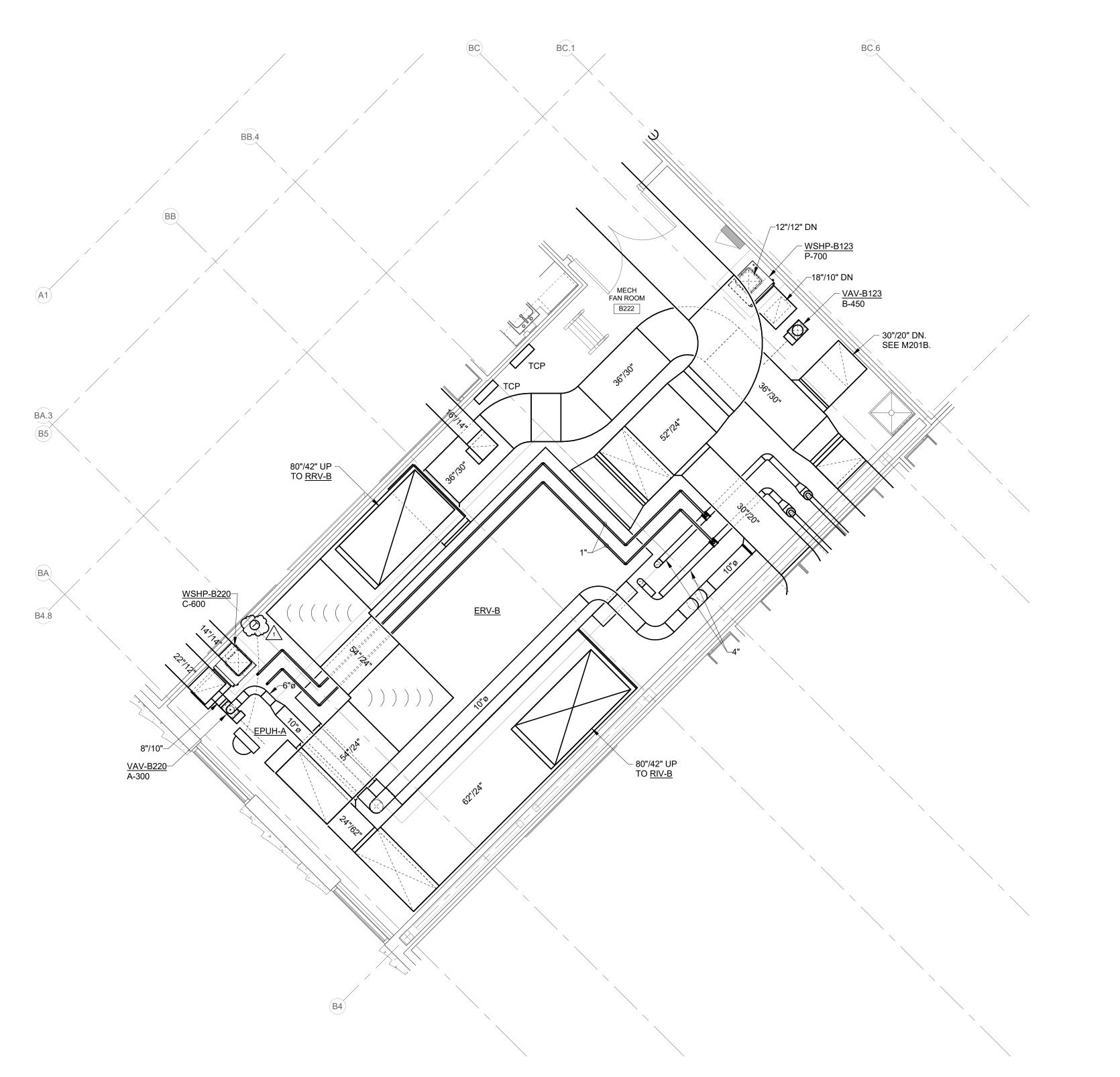
ENLARGED MECHANICAL ROOM B222 -MECHANICAL



DRAWING NUMBER

B222

KEY PLAN NORTH





	VAV SIZF -			SPACE	
TAG	CFM	TYPE	SPACE NAME	NUMBER	SHEET
VAV-A100A	A-300	VAV Size A (6)	MECH.	A103	M304
VAV-A101	B-450	VAV Size B (8)	MECH.	A103	M304
VAV-A102	B-450	VAV Size B (8)	MECH.	A103	M304
VAV-A104	B-450	VAV Size B (8)	MECH.	A103	M304
VAV-A105	B-450	VAV Size B (8)	MECH.	A103	M304
VAV-A119	B-450	VAV Size B (8)	MECH.	A103	M304
VAV-A100B	A-300	VAV Size A (6)	MECH.	A108	M304
VAV-A106	B-450	VAV Size B (8)	MECH.	A108	M304
VAV-A107	B-450	VAV Size B (8)	MECH.	A108	M304
VAV-A109	B-450	VAV Size B (8)	MECH.	A108	M304
VAV-A110	A-20	VAV Size A (6)	MECH.	A108	M304
VAV-A117	A-150	VAV Size A (6)	MECH.	A108	M304
VAV-A200A	A-300	VAV Size A (6)	MECH.	A203	M304
VAV-A200A	B-450	VAV Size B (8)	MECH.	A203	M304
VAV-A202	B-450	VAV Size B (8)	MECH.	A203	M304
VAV-A204	B-450	VAV Size B (8)	MECH.	A203	M304
VAV-A205	B-450	VAV Size B (8)	MECH.	A203	M304
VAV-A218	A-300	VAV Size A (6)	MECH.	A203	M304
\/A\/ A0005	A 00	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	MEQU	4.000	N4004
VAV-A200B	A-20	VAV Size A (6)	MECH.	A208	M304
VAV-A206	B-450	VAV Size B (8)	MECH.	A208	M304
VAV-A207	B-450	VAV Size B (8)	MECH.	A208	M304
VAV-A209	B-450	VAV Size B (8)	MECH.	A208	M304
VAV-A210	A-20	VAV Size A (6)	MECH.	A208	M304
VAV-A216	A-150	VAV Size A (6)	MECH.	A208	M304

TAG	WSHP TYPE	SPACE NAME	SPACE NUMBER	SHEET
WSHP-A100A	E-1100	MECH.	A103	M304
WSHP-A101	E-1000	MECH.	A103	M304
WSHP-A102	E-1100	MECH.	A103	M304
WSHP-A104	E-1100	MECH.	A103	M304
WSHP-A105	E-1000	MECH.	A103	M304
WSHP-A119	E-1100	MECH.	A103	M304
WSHP-A100B	E-1100	MECH.	A108	M304
WSHP-A100B	E-1100 E-1000	MECH.	A108	M304
WSHP-A107	E-1100	MECH.	A108	M304
WSHP-A109	E-1100	MECH.	A108	M304
WSHP-A110	A-100	MECH.	A108	M304
WSHP-A117	C-600	MECH. A108		M304
-				•
WSHP-A200A	E-1100	MECH.	A203	M304
WSHP-A201	E-1000	MECH.	A203	M304
WSHP-A202	E-1100	MECH.	A203	M304
WSHP-A204	E-1100	MECH.	A203	M304
WSHP-A205	E-1000	MECH.	A203	M304
WSHP-A218	C-600	MECH.	A203	M304
WCHD AGOOD	E 4400	MECH	A 200	N4204
WSHP-A200B	E-1100	MECH.	A208	M304
WSHP-A206	E-1000	MECH.	A208	M304
WSHP-A207	E-1100	MECH.	A208	M304
WSHP-A209	E-1100	MECH.	A208	M304
WSHP-A210 WSHP-A216	A-100 B-375	MECH.	A208 A208	M304 M304

GENERAL NOTES:

1. SEE M301 FOR ADDITIONAL GENERAL NOTES.

PLAN NOTES: . GRILLES TO BE PRIME COAT FINISHED FOR FIELD PAINTING.





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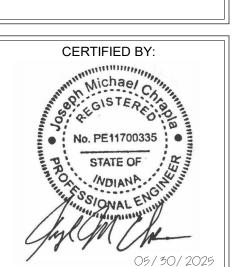
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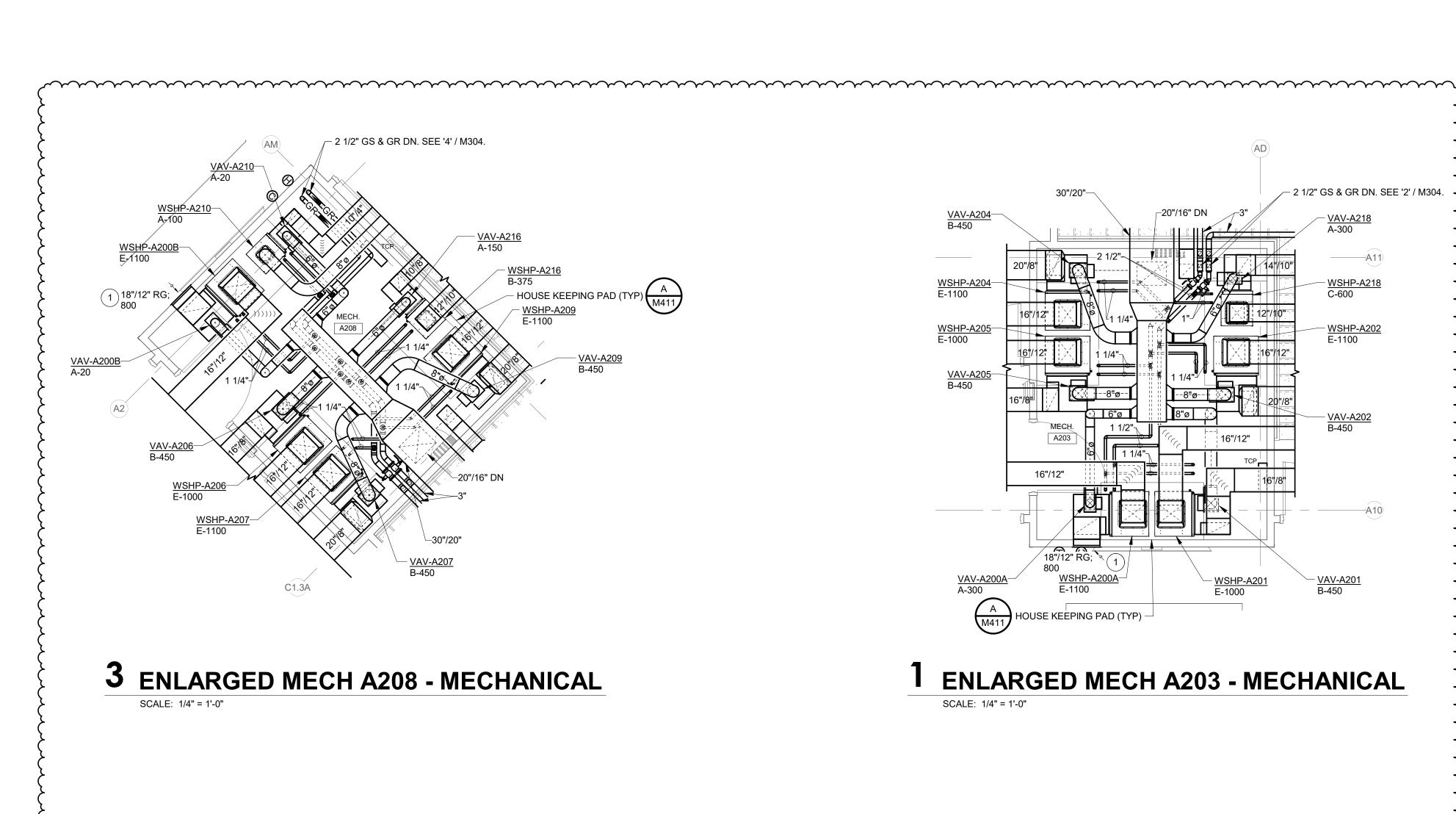
DRAWING TITLE: UNIT A -**ENLARGED** MECHANICAL ROOMS -

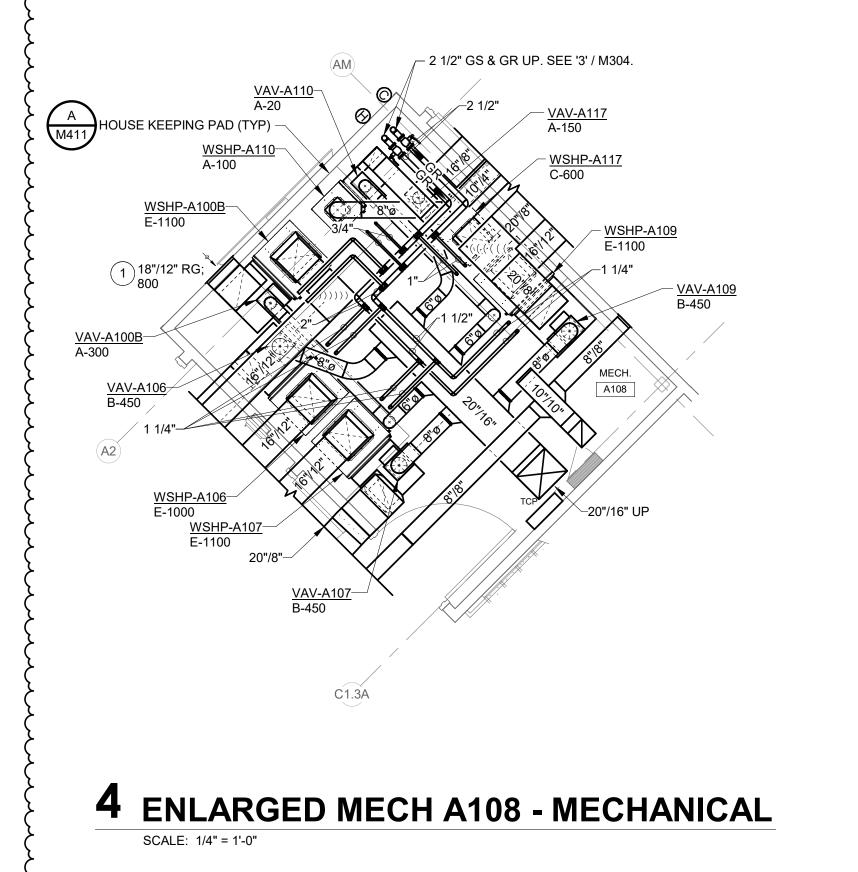
MECHANICAL

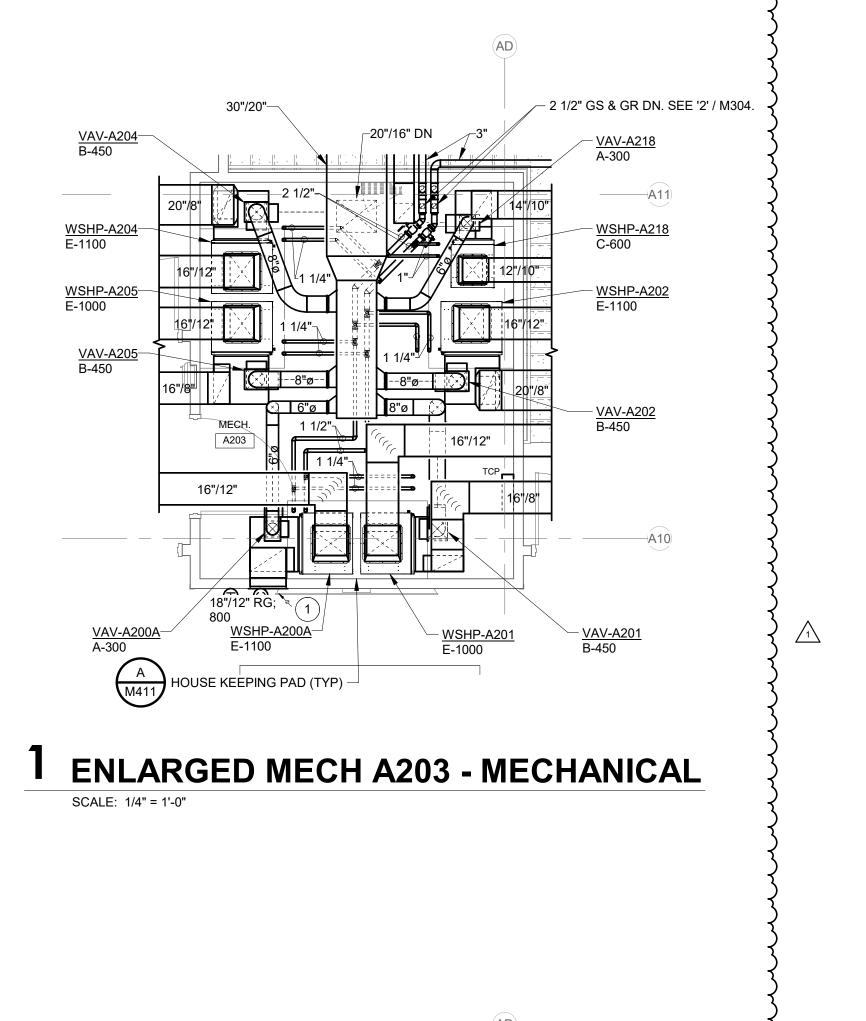


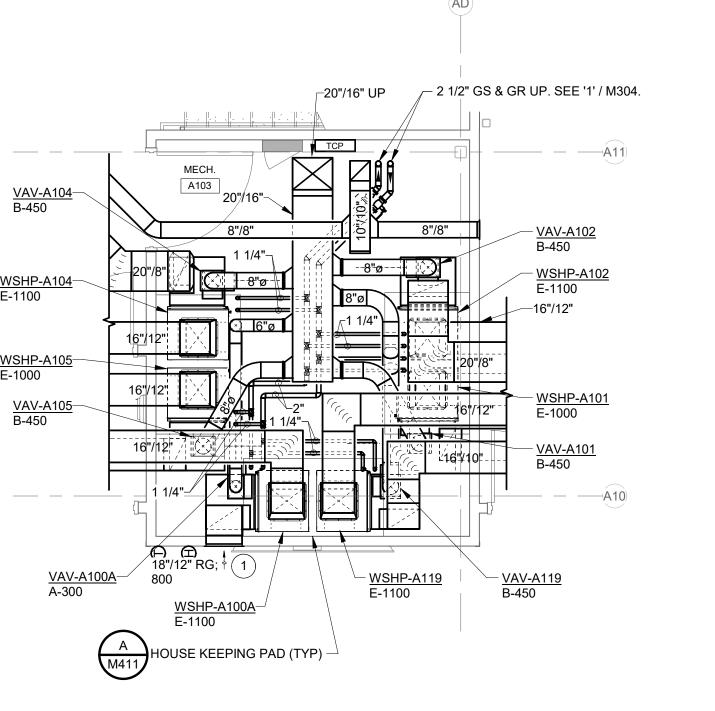
DRAWING NUMBER

PROJECT NUMBER 2024022











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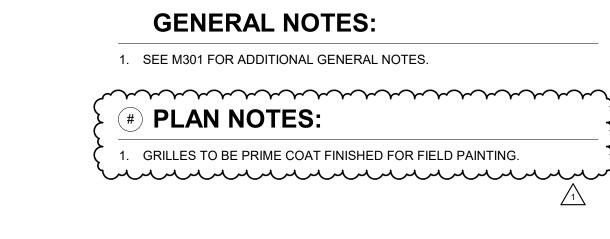
A108 A208

A103 A203

	- VA	AV MECHANICAL B13	2 B137 B232 B237		
TAG	VAV SIZE - CFM	TYPE	SPACE NAME	SPACE NUMBER	SHEET
VAV-B100A	A-300	VAV Size A (6)	MECH.	B132	M305
VAV-B121	B-450	VAV Size B (8)	MECH.	B132	M305
VAV-B130	B-450	VAV Size B (8)	MECH.	B132	M305
VAV-B131	B-450	VAV Size B (8)	MECH.	B132	M305
VAV-B133	B-450	VAV Size B (8)	MECH.	B132	M305
VAV-B134	B-450	VAV Size B (8)	MECH.	B132	M305
VAV-B100B	A-300	VAV Size A (6)	MECH.	B137	M305
VAV-B128	A-50	VAV Size A (6)	MECH.	B137	M305
VAV-B135	B-450	VAV Size B (8)	MECH.	B137	M305
VAV-B136	B-450	VAV Size B (8)	MECH.	B137	M305
VAV-B138	B-450	VAV Size B (8)	MECH.	B137	M305
VAV-B139	A-20	VAV Size A (6)	MECH.	B137	M305
VAV-B200A	A-300	VAV Size A (6)	MECH.	B232	M305
VAV-B230	B-450	VAV Size B (8)	MECH.	B232	M305
VAV-B231	B-450	VAV Size B (8)	MECH.	B232	M305
VAV-B233	B-450	VAV Size B (8)	MECH.	B232	M305
VAV-B234	B-450	VAV Size B (8)	MECH.	B232	M305
	ı				T
VAV-B200B	A-300	VAV Size A (6)	MECH.	B237	M305
VAV-B223	A-150	VAV Size A (6)	MECH.	B237	M305
VAV-B235	B-450	VAV Size B (8)	MECH.	B237	M305
VAV-B236	B-450	VAV Size B (8)	MECH.	B237	M305
VAV-B238	B-450	VAV Size B (8)	MECH.	B237	M305
VAV-B239	A-20	VAV Size A (6)	MECH.	B237	M305

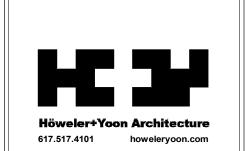
SCALE: 1/4" = 1'-0"

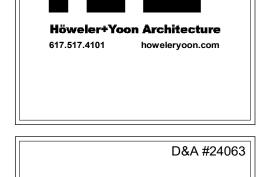
TAG			SPACE	
IAG	WSHP TYPE	SPACE NAME	NUMBER	SHEET
WSHP-B100A	E-1100	MECH.	B132	M305
WSHP-B121	E-1200	MECH.	B132	M305
WSHP-B130	E-1000	MECH.	B132	M305
WSHP-B131	E-1100	MECH.	B132	M305
WSHP-B133	E-1100	MECH.	B132	M305
WSHP-B134	E-1000	MECH.	B132	M305
WSHP-B100B	E-1100	MECH.	B137	M305
WSHP-B128	A-200	MECH.	B137	M305
WSHP-B135	E-1000	MECH.	B137	M305
WSHP-B136	E-1100	MECH.	B137	M305
WSHP-B138	E-1100	MECH.	B137	M305
WSHP-B139	A-100	MECH.	B137	M305
WSHP-B200A	E-1100	MECH.	B232	M305
WSHP-B230	E-1000	MECH.	B232	M305
WSHP-B231	E-1100	MECH.	B232	M305
WSHP-B233	E-1100	MECH.	B232	M305
WSHP-B234	E-1000	MECH.	B232	M305
WSHP-B200B	E-1100	MECH.	B237	M305
WSHP-B223	C-600	MECH.	B237	M305
WSHP-B235	E-1000	MECH.	B237	M305
WSHP-B236	E-1100	MECH.	B237	M305
WSHP-B238	E-1100	MECH.	B237	M305













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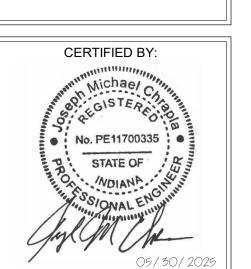
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UNIT B ENLARGED
MECHANICAL
ROOMS MECHANICAL



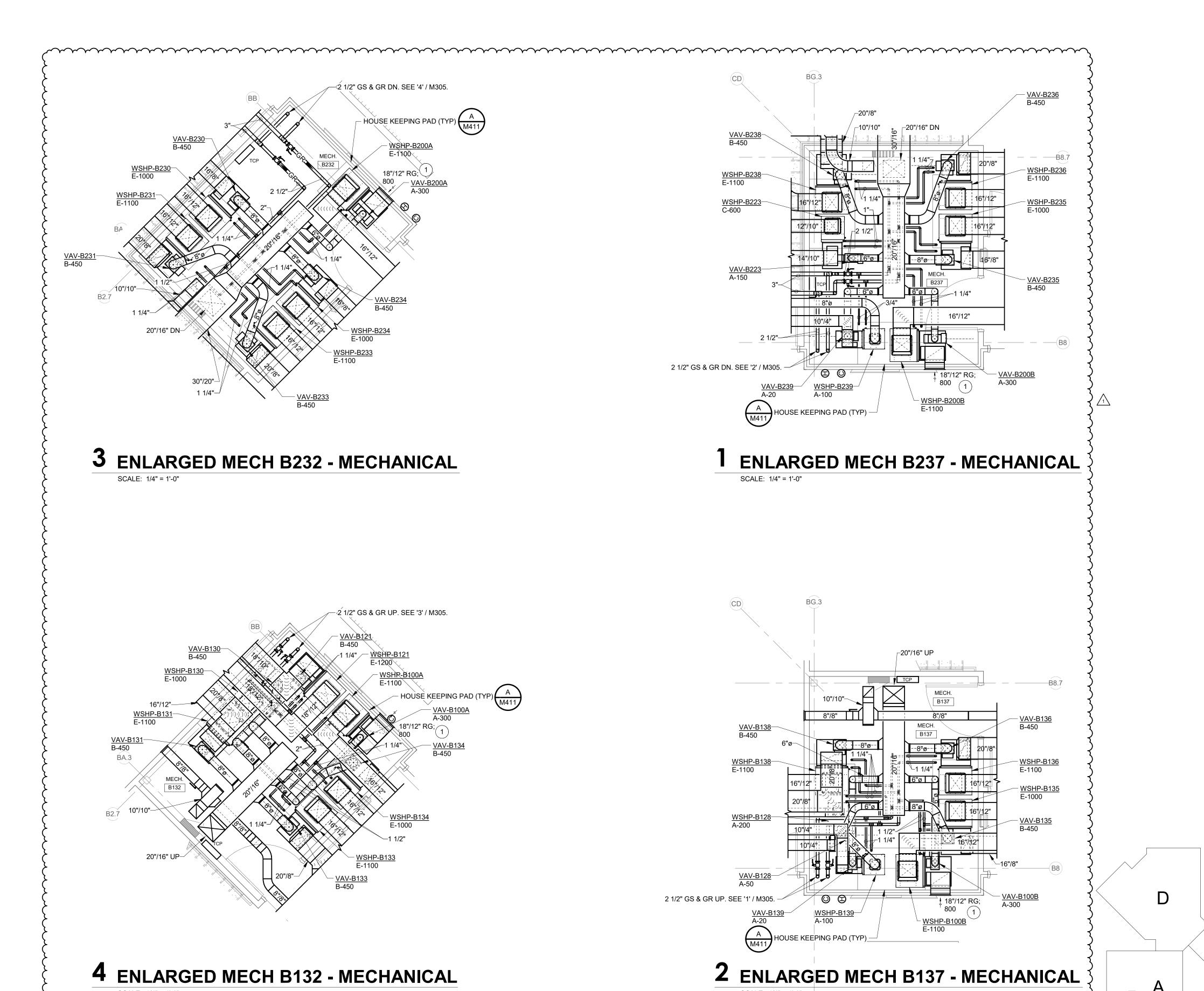
DRAWING NUMBER

M305

B137 B237

B132 B232

PROJECT NUMBER 2024022



<u>EXHA</u>	AUST FAN INF	ORMA	TION - JOB#7327759																
FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURE	R CFM	ESP	RPM	M _D - EN		НР ВНР	PHASE	VOLT	FLA		CHARG _OCIT		(LBS)	SONE	2
1	KITCHEN HOOD EF	1	DU240HFA	CAPTIVEAIR	5200	1.200	909	TEFC,P	REMIUM	3.000 2.1720	3	460	4.5	118	2 FPN	1	363	16.1	
3	CONDENSATE EF	1	DU33HFA	CAPTIVEAIR	600	0.750	1435	TEAD	-ECM	0.333 0.1790	1	115	4.3	29	7 FPM	1	64	14.2	:]
MUA	MUA FAN INFORMATION - JOB#7327759																		
FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	ВНР	PHASE	VOLT	FLA	MCA	MOCP	WEIGHT (LBS)	SONES
2	KITCHEN HOOD MAL	1	A2-D.500-20D	20MF-2-MOD	A2-D.500	2500	4160	1.500	1916	ODP,PREMIUM	5.000	3.7930	3	460	6.8	8.5A	15A	851	23.3

GAS	FIRED	MAKE-UP	AIR	UNIT(S)
				, ,	

FAN UNIT ND	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)	
2	KITCHEN HOOD MAU	376265	346164	80 ° F	7 IN. W.C. – 14 IN. W.C.	NATURAL	92	

SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY

EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET

ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION

FAN JNIT NO	TAG	QTY	DESCRIPTION
		1	GREASE BOX
		1	FAN BASE CERAMIC SEAL - DU/DR240HFA - INSTALLED AT PLANT - FOR GREASE DUCTS
1	KITCHEN HOOD EF	1	EXHAUST FAN HEAT BAFFLE
		1	LOAD REACTOR MOUNTED IN FAN
		1	2 YEAR PARTS WARRANTY
		1	SIZE 2 TEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS
		1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	BUTTERFLY MOD VALVE OPTION FOR MOD SIZE 2 (1" MOD VALVE)
		1	SHIP LOOSE GAS STRAINER 1"
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
		1	MOTORIZED BACKDRAFT DAMPER FOR A2-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	CLOGGED FILTER SWITCH - NOTIFICATION ON HMI
2	KITCHEN HOOD MAU	1	CONVENIENCE DUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION - INCLUDES RECEPTACLE AND J-BOX
		1	SINGLE ELECTRICAL CABINET LED LIGHTS USED ON MODULAR MUA UNITS
		1	DDC MSTP BACNET REMOTE UNIT MONITORING
		1	INSULATION OPTION FOR VBANK FILTER SECTION

CONDENSATE EF 1 2 YEAR PARTS WARRANTY

<u>FAN</u>	<u>ACCESSORIES</u>							
FAN UNIT	TAG		EXHAUST	SUPPLY				
ND	TAG	GREASE CUP	GRAVITY DAMPER	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT	
1	KITCHEN HOOD EF	YES						
2	KITCHEN HOOD MAU					YES		
3	CONDENSATE EF							

1 LOAD REACTOR MOUNTED IN FAN

1 2 YEAR PARTS WARRANTY

SCR-11 BIRD SCREEN

CURB ASSEMBLIES

N□	□N FAN	TAG	WEIGHT	ITEM	SIZE	
1	# 1	KITCHEN HOOD EF	43 LBS	CURB	31.500"W X 31.500"L X 20.000"H VENTED HI	NGED.
2	# 2	KITCHEN HOOD MAU	86 FB2	CURB	31.000"W X 79.000"L X 18.000"H INSULATED.	
	# 2			RAIL	4.000"W X 4.000"L X 36.000"H.	
3	# 3	CONDENSATE EF	20 LBS	CURB	19.500"W X 19.500"L X 18.000"H INSULATED.	

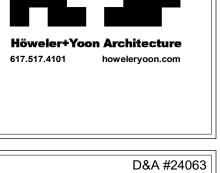
HMI SCHEDULE									
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRES					
FAN #2	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55					



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MAPLE GROVE ELEMENTARY
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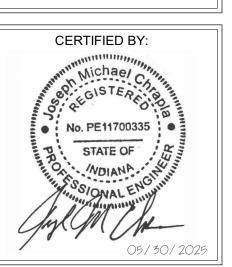
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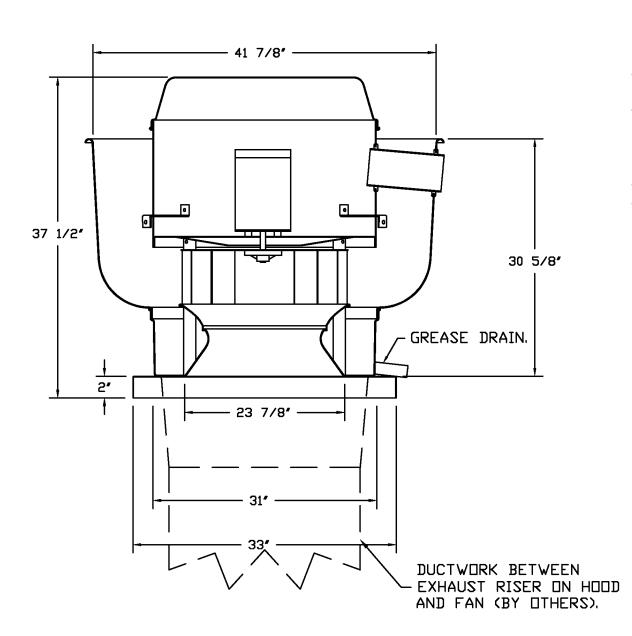
ISSUE DATE | DRAWN BY | CHECKED BY 05/30/2025 JMC JMC

DRAWING TITLE: KITCHEN HOOD EF + GFMAU -SCHEDULES



DRAWING NUMBER PROJECT NUMBER 2024022

FAN #1 DU240HFA - EXHAUST FAN (KITCHEN HOOD EF)



FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS). - ROOF MOUNTED FANS.
- RESTAURANT MODEL. - UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL. INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C). - GREASE CLASSIFICATION TESTING. - NEMA 3R SAFETY DISCONNECT SWITCH.

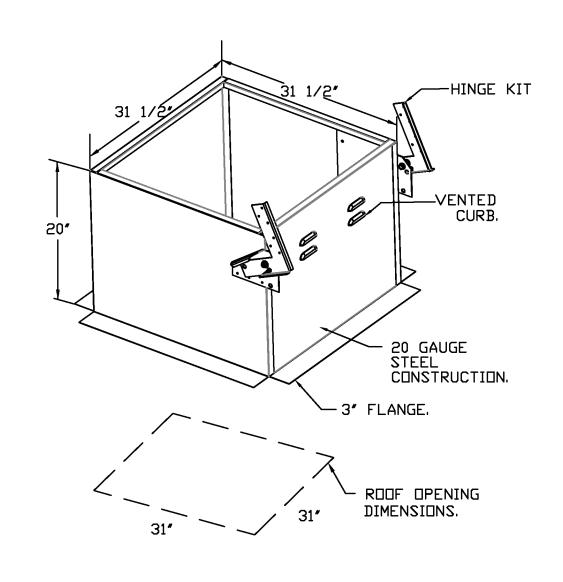
NORMAL TEMPERATURE TEST EXHAUST FAN MUST OPERATE CONTINUOUSLY

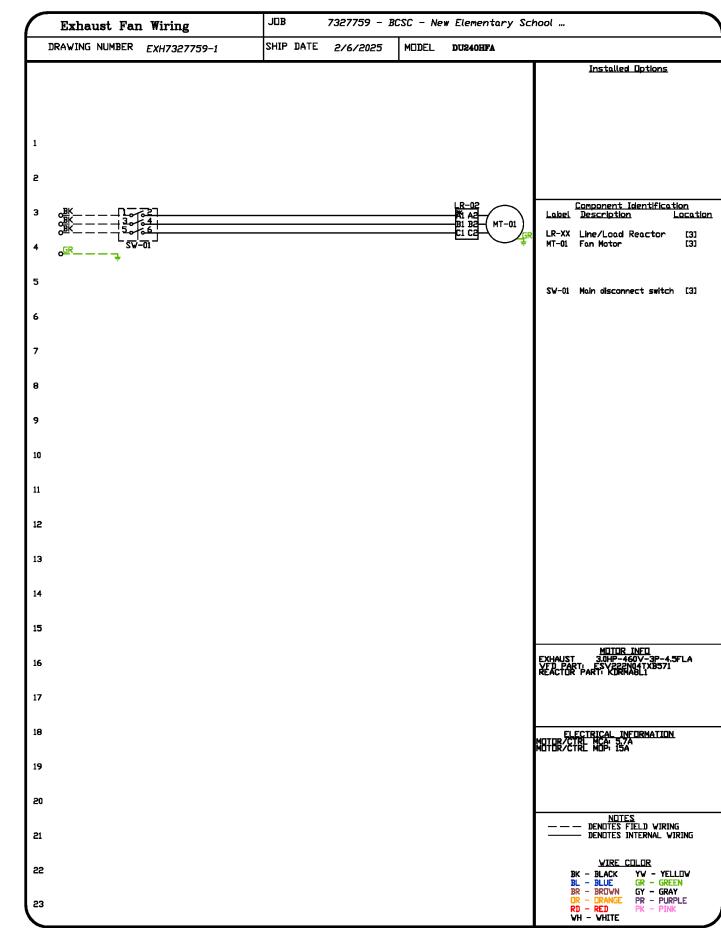
WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

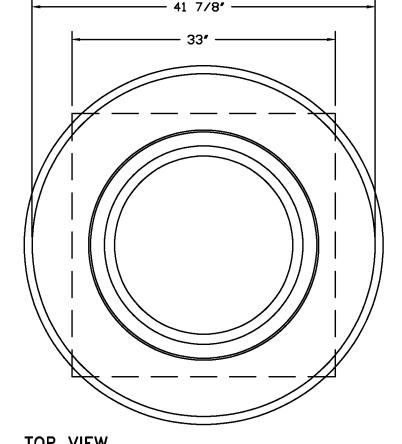
ABNORMAL FLARE-UP TEST

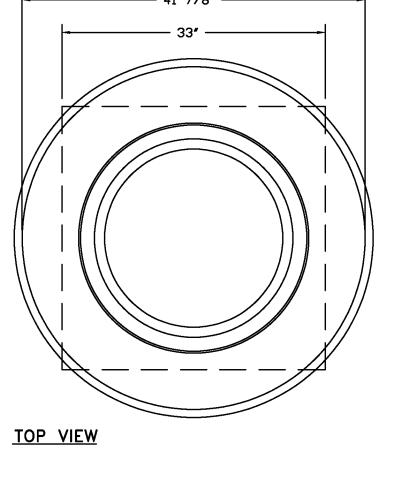
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

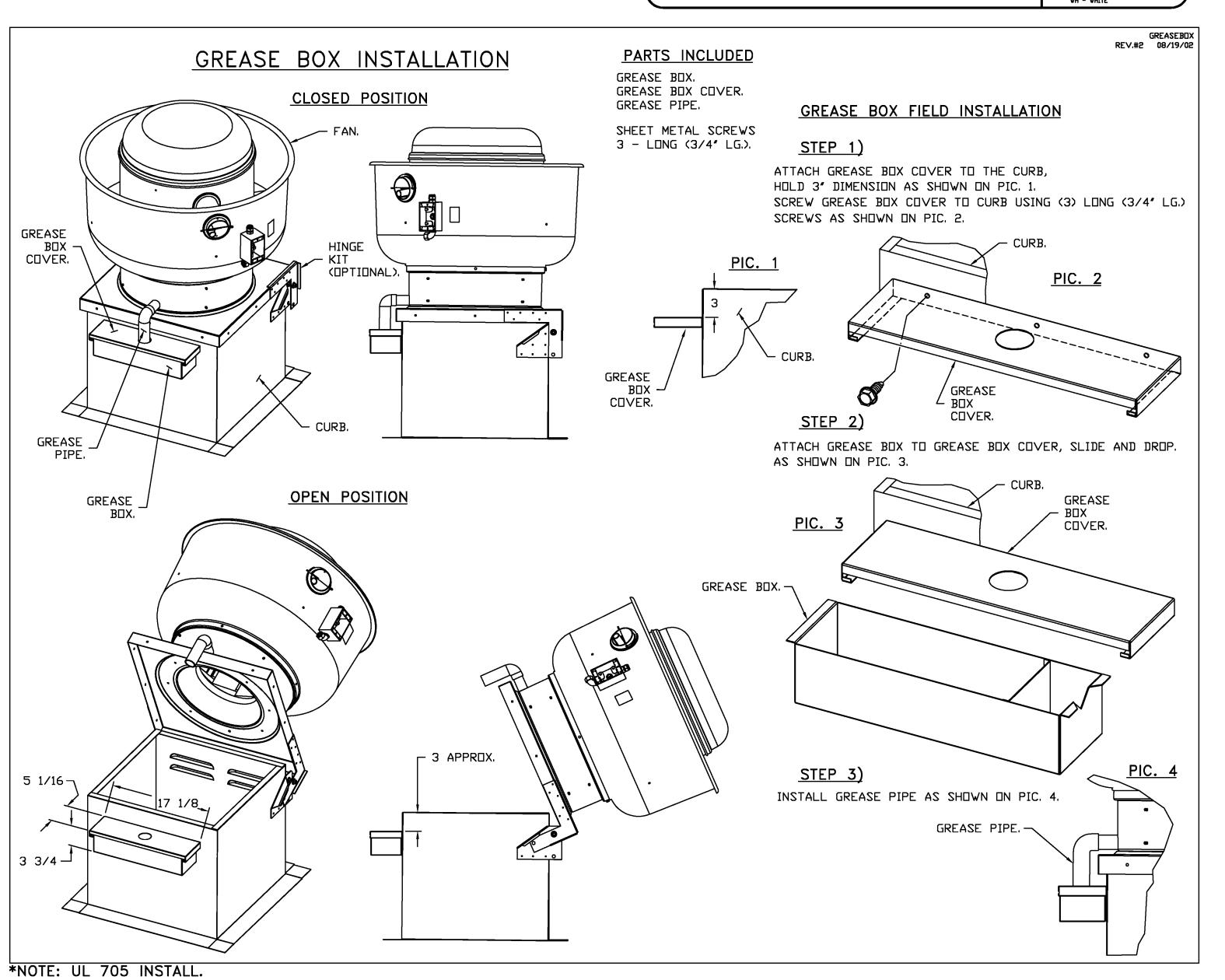
- GREASE BOX.
 FAN BASE CERAMIC SEAL DU/DR240HFA INSTALLED AT PLANT FOR GREASE DUCTS.
 EXHAUST FAN HEAT BAFFLE.
 LOAD REACTOR MOUNTED IN FAN.
 2 YEAR PARTS WARRANTY.













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SCOPE DRAWINGS:

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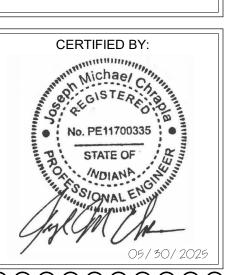
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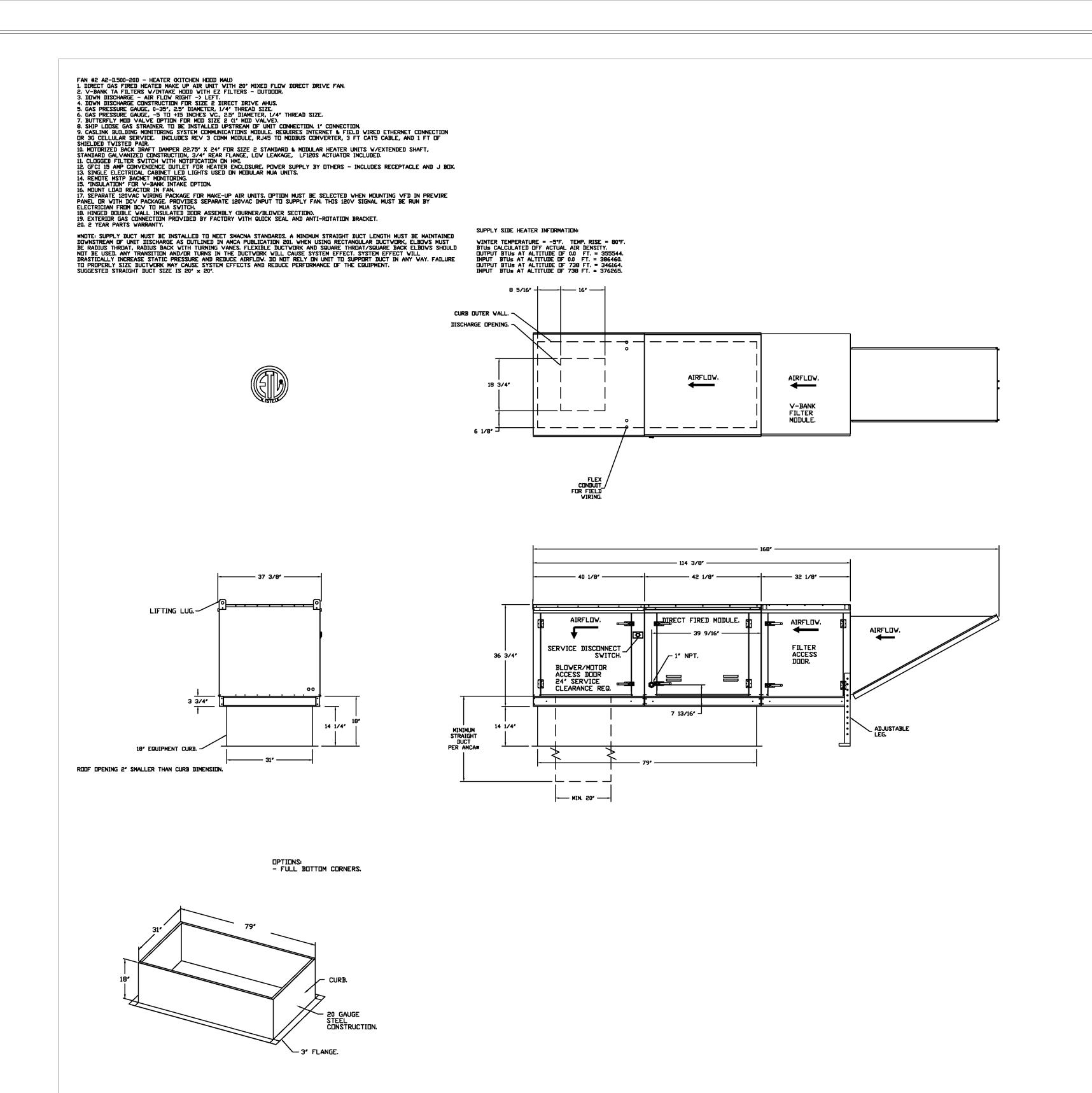
REVISIONS: Addendum #1 06/10/2025

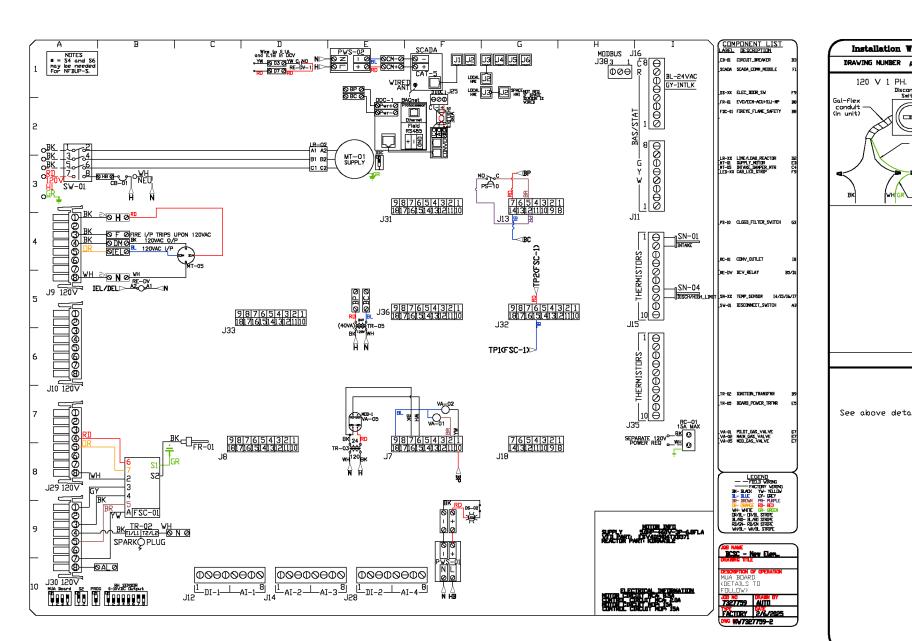
ISSUE DATE DRAWN BY CHECKED BY 05/30/2025 JMC

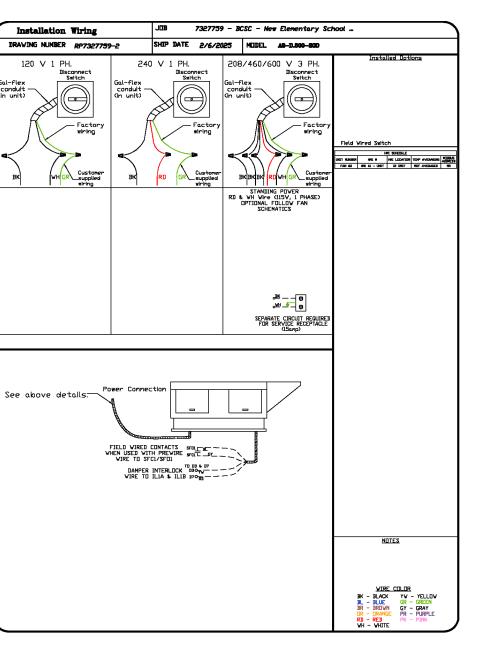
DRAWING TITLE: KITCHEN HOOD EF - DETAILS + WINING DIAGRAM



DRAWING NUMBER PROJECT NUMBER 2024022















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BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
MAPLE GROVE ELEMENTARY
TIPTON LAKES BLVD, COLUMBUS, IN 47201

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Addendum #1 06/10/2025

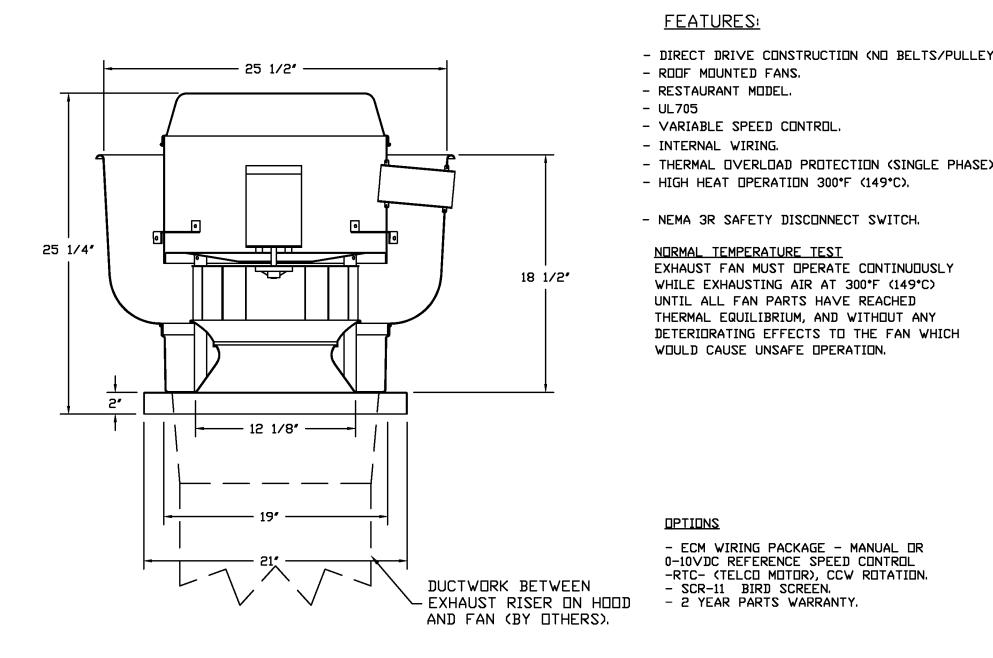
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DRAWING TITLE: KITCHEN HOOD GFMAU -DETAILS + WINING DIAGRAM



DRAWING NUMBER PROJECT NUMBER 2024022

FAN #3 DU33HFA - EXHAUST FAN (CONDENSATE EF)

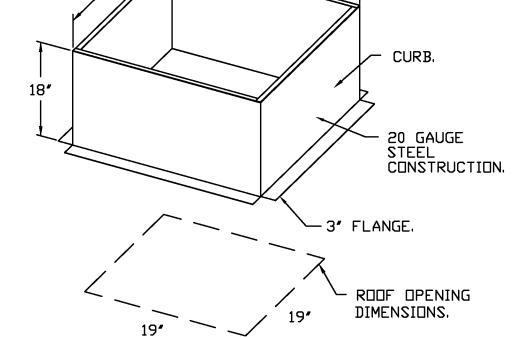


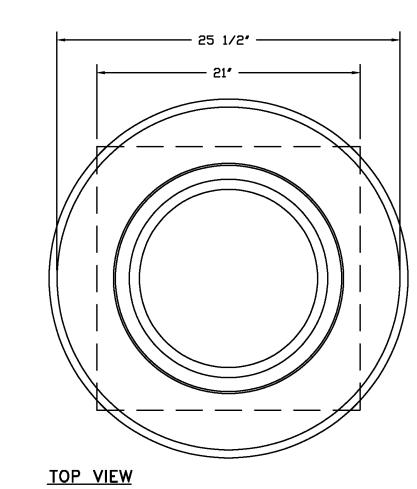
FEATURES:

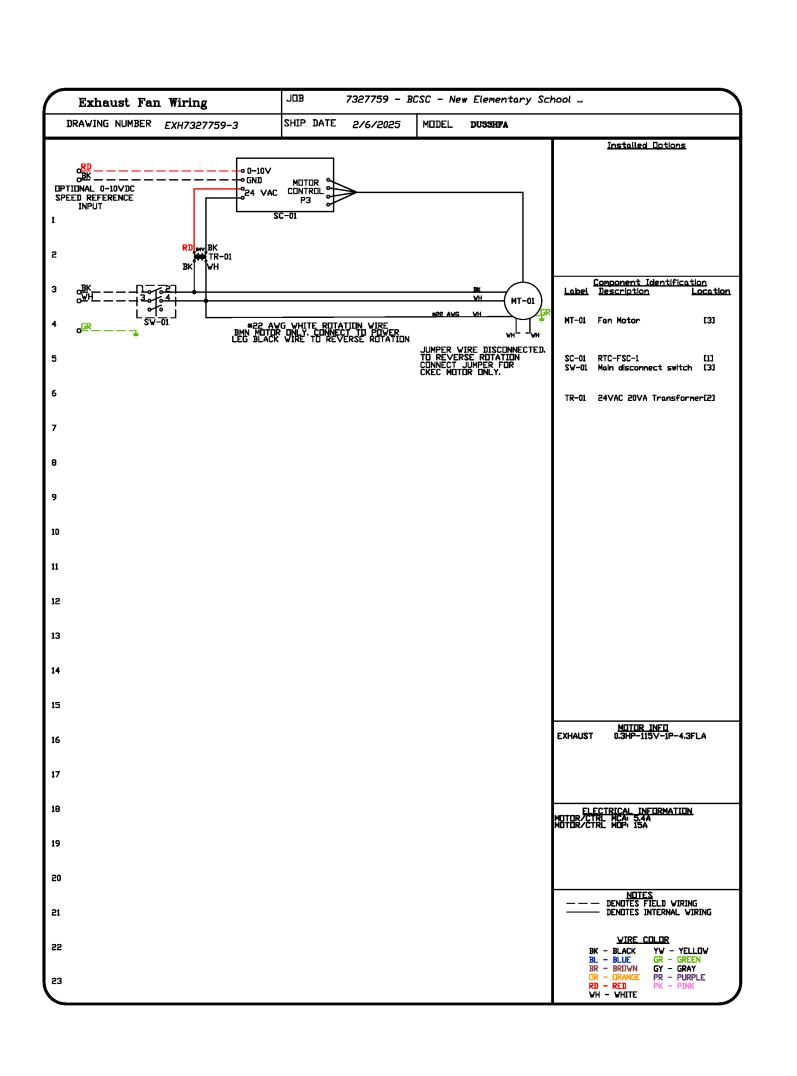
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS). ROOF MOUNTED FANS. - RESTAURANT MODEL.
- UL705
- VARIABLE SPEED CONTROL. INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).

- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.





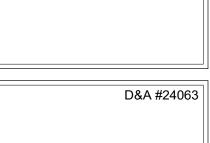




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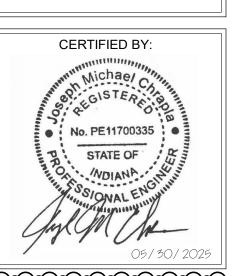
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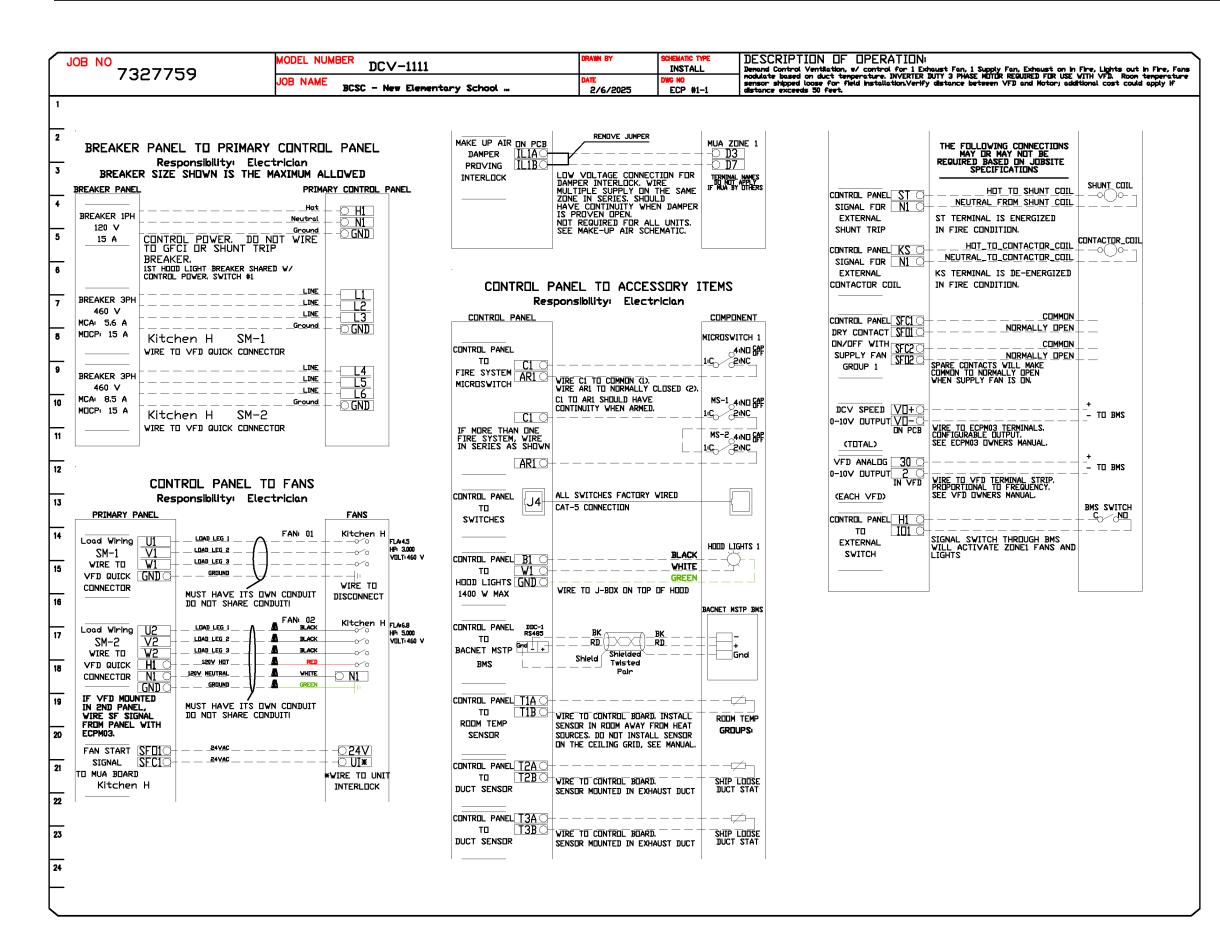
REVISIONS: Addendum #1 06/10/2025

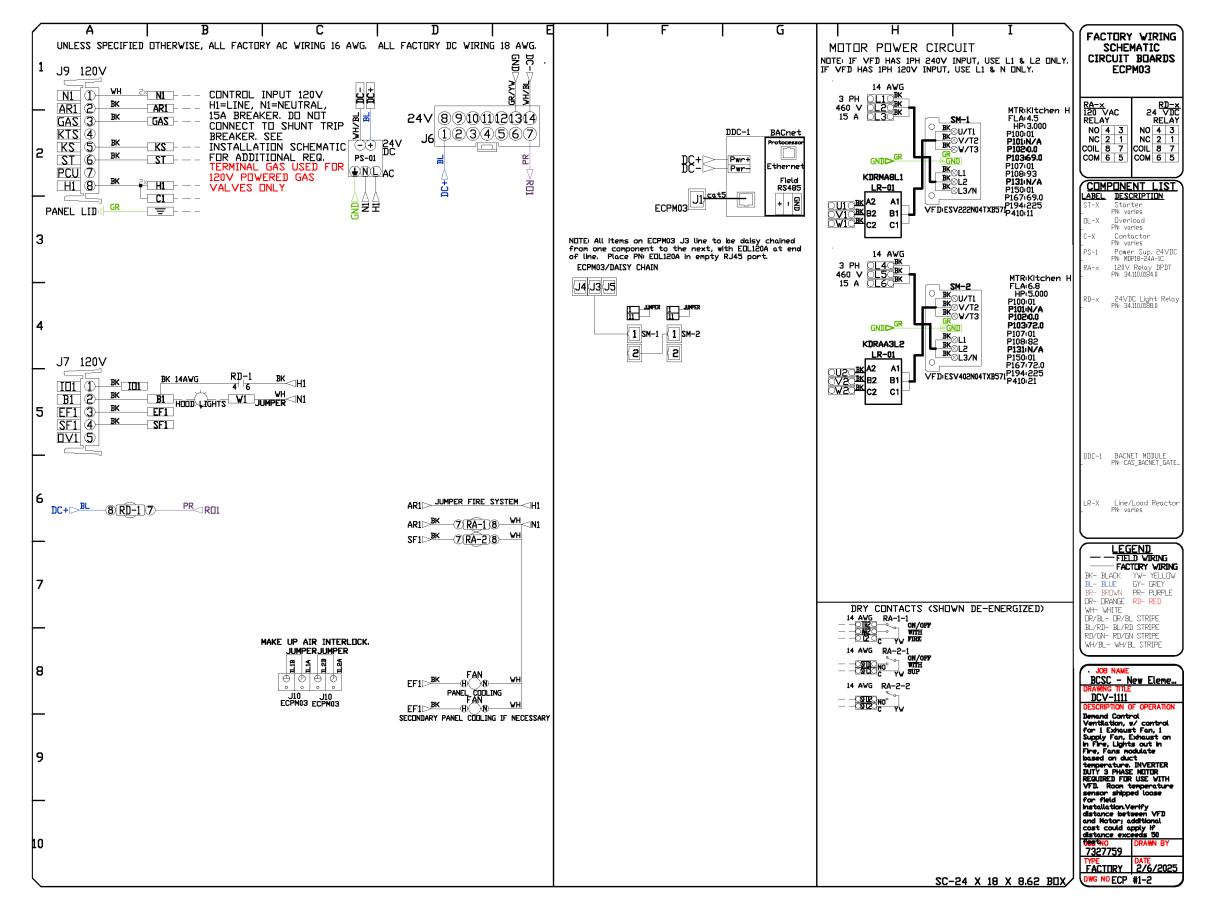
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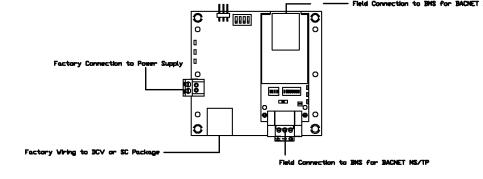
DRAWING TITLE: KITCHEN CONDENSATE EF - DETAILS + WINING DIAGRAM



EL	<i>ECTRICAL</i>	PACKAGI	E - JOB#7327759									
ND	TAG	PACKAGE #	 LOCATION	SWITCH	IES	OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	ф	HP	VOLT	FLA
١,		DC\/_1111	WALL MOUNT IN SS BOX	SS WALL MOUNT	1 LIGHT	SMART CONTROLS DCV	Kitchen Hood EF	EXHAUST	3	3.000	460	4.5
L		DCV-1111	WALL MIGHT IN 33 BIX	B□X	1 FAN	SMART CHITRES DCV	Kitchen Hood MAU	SUPPLY	3	5.000	460	6.8







BACNET Interface for DCV and SC Packages

BACNET Interface for Hood Control Panel Specifications:
- Microprocessor-based Hood Controls support communications to an external Bullding Management System through a BTL listed gateway (BACNET IP and MS/TP). The Hood Control Panel communicates real time data from sensors and equipment status to the Building Management System. The Hood Control Panel also allows the Building Management System to control fans, lights The monitoring and controlling points for Hood Smart Controls and Demand Control Ventilation Systems are listed below

MONITORING AND CONTROL POINTS LIST

DCV Packages	Function	SC Packages	Function
Room Temperature	MONITOR	Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR	Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR	MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR	Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR	Controller Faults	MONITOR
Fan Amperage	MONITOR	Fan Faults	MONITOR
Fan Power	MONITOR	Fan Status	MONITOR
VFD Faults	MONITOR	PCU Faults	MONITOR
Controller Faults	MONITOR	PCU Filter Clog Percentages	MONITOR
Fan Faults	MONITOR	Fire Condition	MONITOR
Fan Status	MONITOR	CORE Fire System	MONITOR
PCU Faults	MONITOR	Building Pressures	MONITOR
PCU Filter Clog Percentages	MONITOR	Fans Button(s)	MONITOR & CONTROL
Fire Condition	MONITOR	Lights Button(s)	MONITOR & CONTROL
CORE Fire System	MONITOR	Wash Button	MONITOR & CONTROL
Building Pressures	MONITOR		
Prep Time Button	MONITOR & CONTROL		
Fans Button	MONITOR & CONTROL		
Lights Button	MONITOR & CONTROL		

Wash Button

DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS: - CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM

TURNDOWN REQUIREMENTS OUTLINED IN IECC 403.7.5 (2021).

OR PAINTED STEEL.

- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET, THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL

- TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.

- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURES SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.

- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.

- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING.

- VARIABLE FREQUENCY DRIVES (VFDS) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDS BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL,

- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.

- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.

- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED, OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.

- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.

- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).

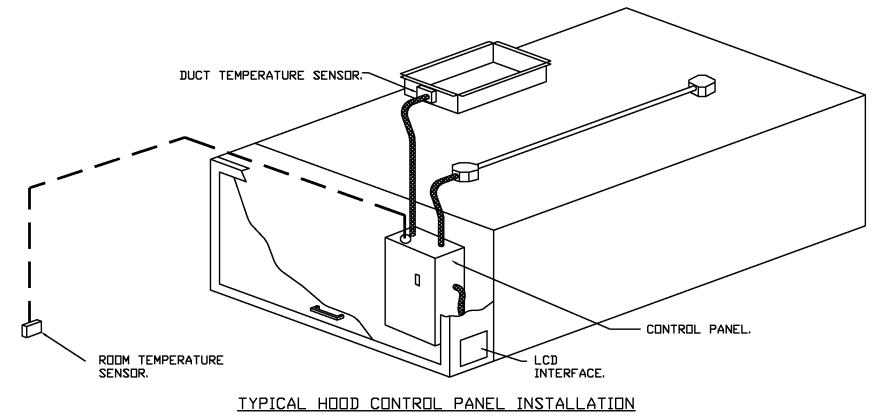
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES: A. DN/DFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.

B. INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED).

VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.

DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION. E. MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.

F. A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION. G. AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDS.



SEQUENCE OF OPERATIONS: THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:

- <u>AUTOMATIC:</u> THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR, FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC, THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE, IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS "DYNAMIC", THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL, PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS "STATIC", FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE, DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS DUTLINED IN IECC 403.7.5 (2021).

MANUAL: THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.

SCHEDULE: A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY, THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS, ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME, DURING UNDCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.

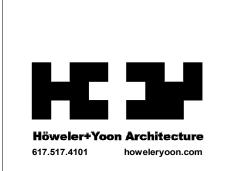
- <u>OTHER:</u> THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).

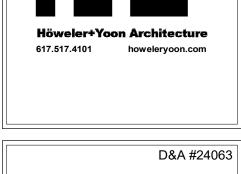
- <u>FIRE:</u> UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN, FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.





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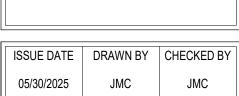
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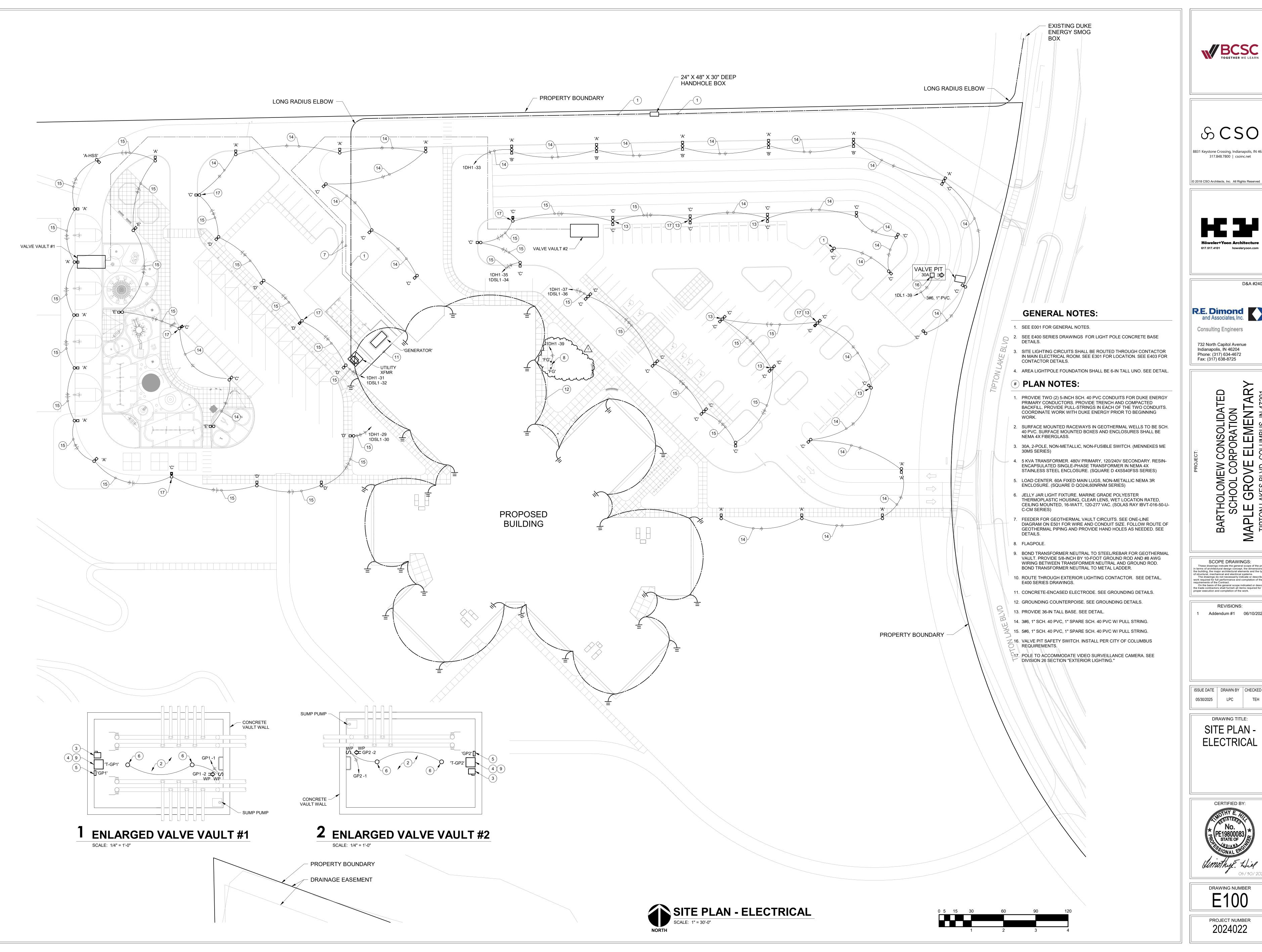


DRAWING TITLE: KITCHEN HOOD **CONTROLS**



PROJECT NUMBER

2024022





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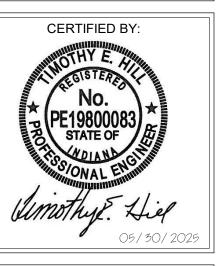
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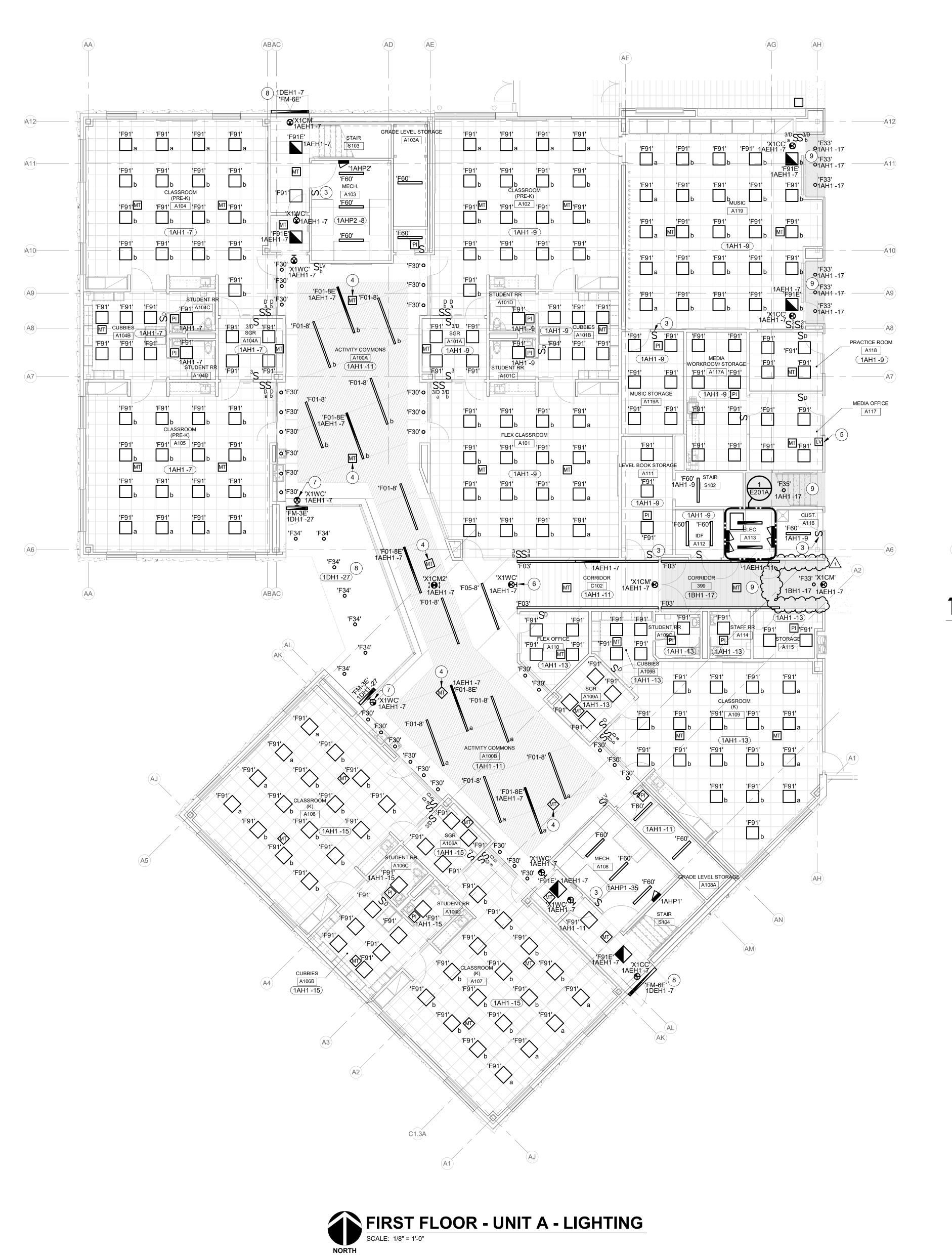
DRAWING TITLE: SITE PLAN -

LPC TEH

ELECTRICAL



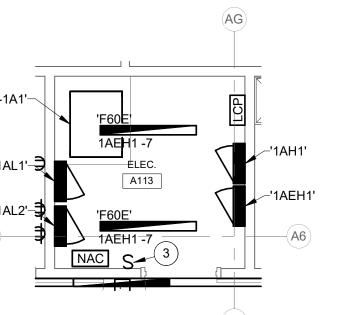
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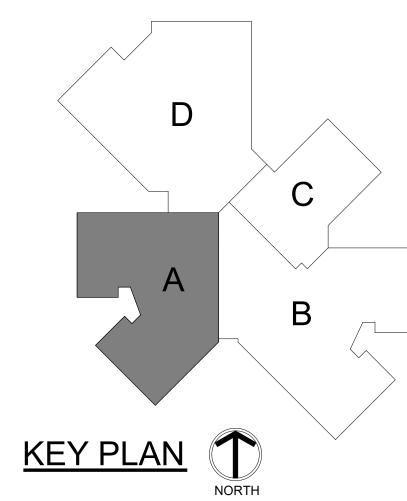


1. SEE E001 FOR GENERAL NOTES.

- 1. COORDINATE LOCATION OF LIGHTING FIXTURES AND DEVICES IN THIS ROOM WITH TELECOMMUNICATIONS INSTALLER PRIOR TO ROUGH-IN.
- 3. INSTALL RECEPTACLE IN DIVIDED TWO-GANG BOX WITH LIGHT
- 5. TOUCH SCREEN CONTROLS DISCOVERY CENTER LIGHTING.
- 7. INSTALL 8 INCHES ABOVE TRANSOM.
- 8. EXTERIOR LIGHTING CIRCUIT TO BE FED THROUGH LIGHTING CONTACTOR IN MECHANICAL ROOM D178. SEE E301 FOR LOCATION OF PANELS AND LIGHTING CONTACTOR. SEE E403 FOR WIRING DIAGRAM. CENTER FIXTURES IN SOFFITS BETWEEN SOFFIT



ELECTRICAL ROOM A113

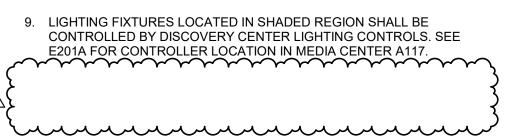


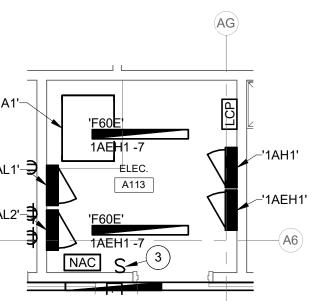


2. SEE E601 FOR LIGHTING CONTROL SCHEDULE.

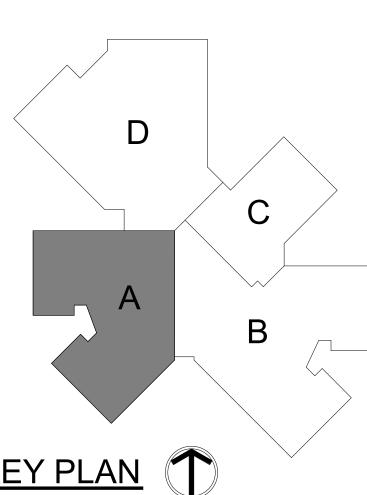
PLAN NOTES:

- 2. NOT USED
- 4. PROVIDE BLACK OCCUPANCY SENSOR.
- 6. INSTALL 8 INCHES ABOVE BOTTOM OF BULKHEAD.
- REVEALS.





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

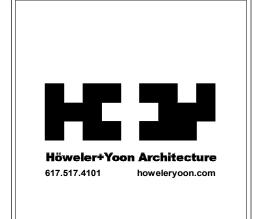




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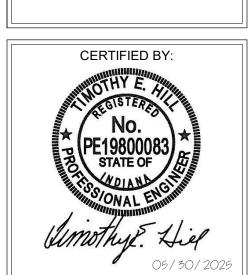
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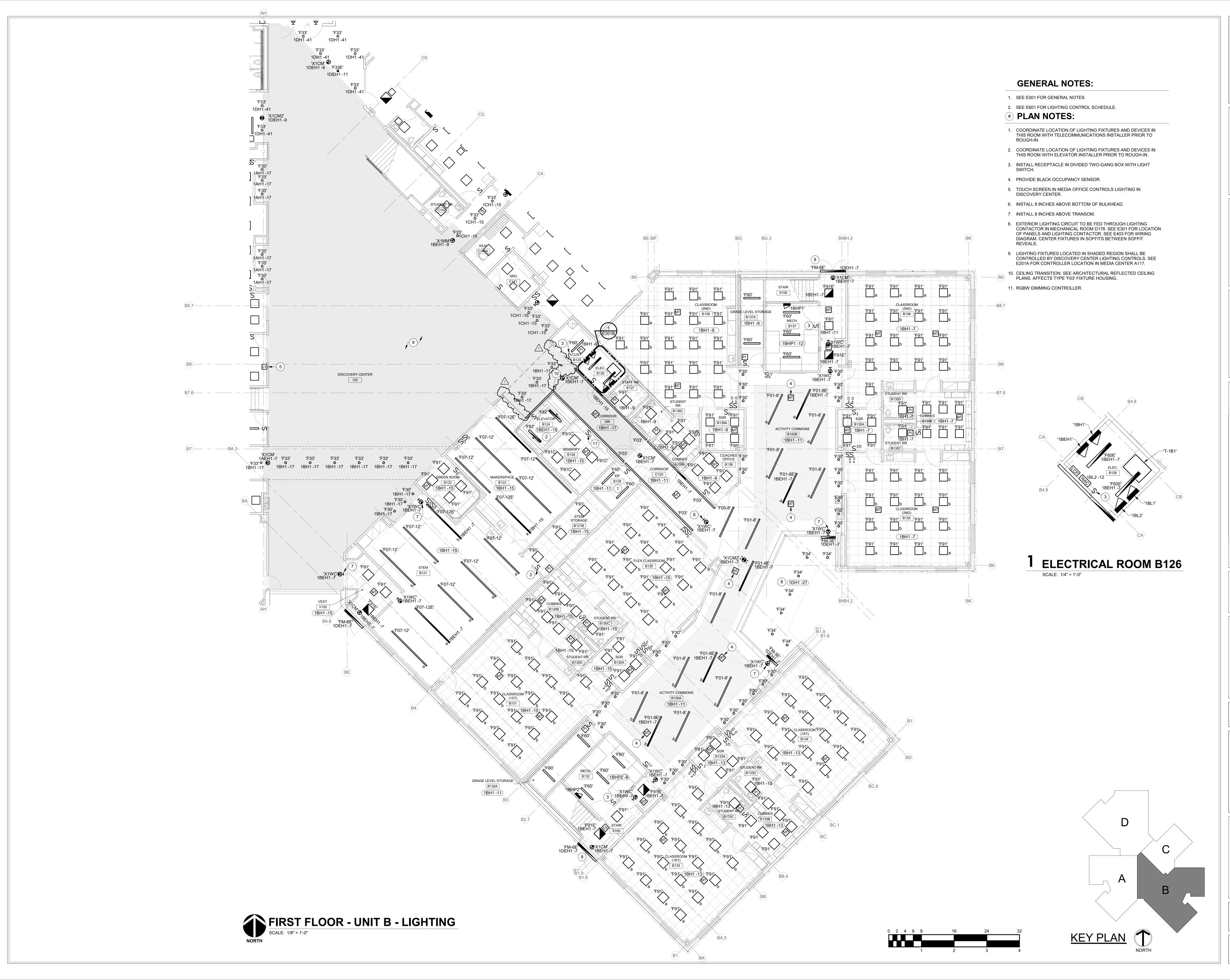
Addendum #1 06/10/2025

LPC

DRAWING TITLE: FIRST FLOOR PLAN - UNIT A -LIGHTING



E201A





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TIPTON LAKES BLVD. COLUMBUS. IN 47201

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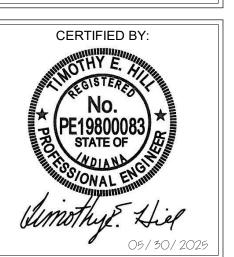
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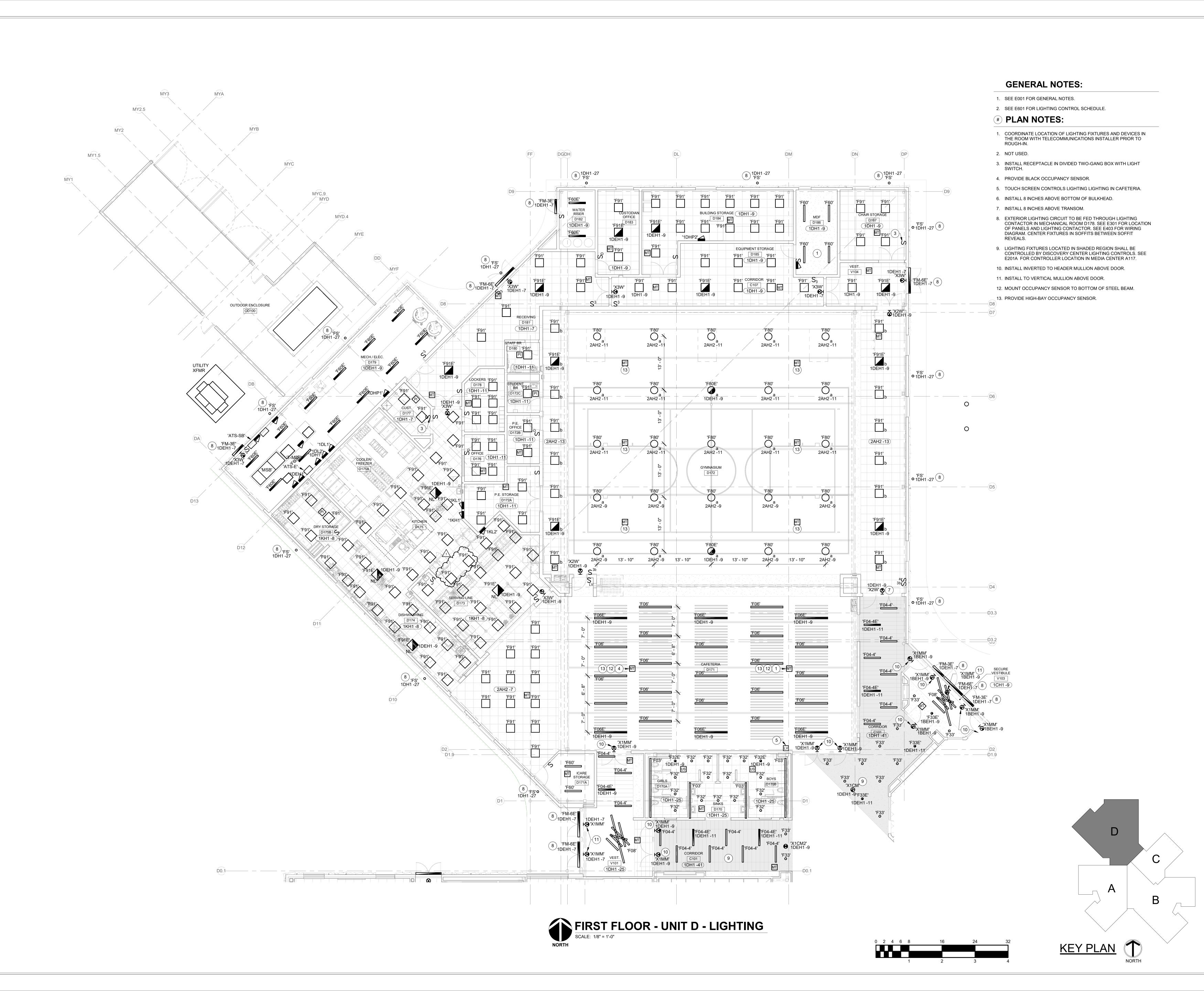
DATE DRAWN BY CHECKED B

DRAWING TITLE:
FIRST FLOOR

PLAN - UNIT B -LIGHTING



E201B





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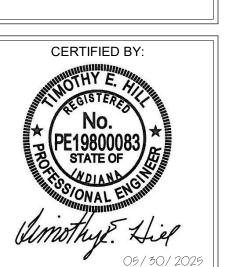
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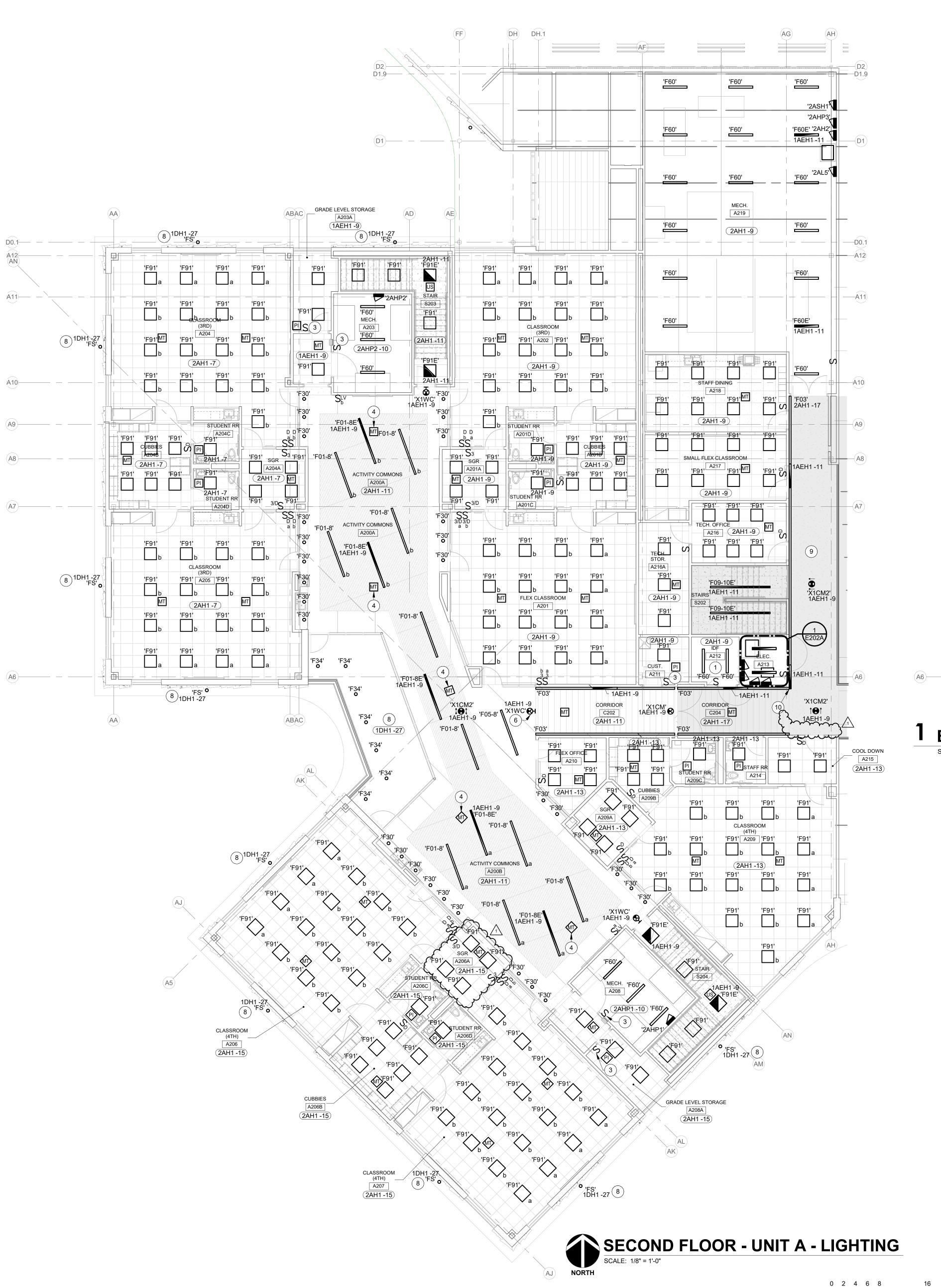
05/30/2025

FIRST FLOOR
PLAN - UNIT D LIGHTING



E201D

PROJECT NUMBER

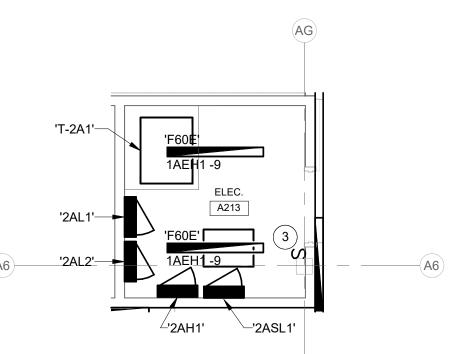




- SEE E001 FOR GENERAL NOTES.
- 2. SEE E601 FOR LIGHTING CONTROL SCHEDULE.

PLAN NOTES:

- COORDINATE LOCATION OF LIGHTING FIXTURES AND DEVICES IN THIS ROOM WITH TELECOMMUNICATIONS INSTALLER PRIOR TO ROUGH-IN.
- 2. NOT USED
- 3. INSTALL RECEPTACLE IN DIVIDED TWO-GANG BOX WITH LIGHT
- 4. PROVIDE BLACK OCCUPANCY SENSOR.
- 5. NOT USED
- 6. INSTALL TO WALL 8 INCHES ABOVE BOTTOM OF BULKHEAD.
- 7. NOT USED.
- 8. EXTERIOR LIGHTING CIRCUIT TO BE FED THROUGH LIGHTING CONTACTOR IN MECHANICAL ROOM D178. SEE E301 FOR LOCATION OF PANELS AND LIGHTING CONTACTOR. SEE E403 FOR WIRING DIAGRAM. CENTER FIXTURES IN SOFFITS BETWEEN SOFFIT REVEALS. MATCH FIXTURE LOCATIONS WITH PATIO BELOW.
- 9. LIGHTING FIXTURES LOCATED IN SHADED REGION SHALL BE CONTROLLED BY DISCOVERY CENTER LIGHTING CONTROLS. SEE E201A FOR CONTROLLER LOCATION IN MEDIA CENTER A117.
- CEILING TRANSITION. SEE ARCHITECTUAL REFLECTED CEILING PLANS. AFFECTS TYPE 'F03' FIXTURE HOUSING.



ELECTRICAL ROOM A213 - LIGHTING

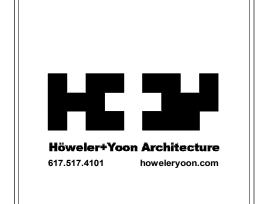
SCALE: 1/4" = 1'-0"

D C
A
B
KEY PLAN
NORTH











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Consulting Engineers

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BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
MAPLE GROVE ELEMENTARY
TIPTON LAKES BLVD, COLUMBUS, IN 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.

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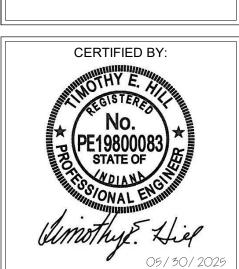
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REVISIONS:
Addendum #1 06/10/2025

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SECOND FLOOR
PLAN - UNIT A LIGHTING

LPC



E202A

PROJECT NUMBER

	EXTERIOR LIGHT FIX	TURE	SCH	IEC	ULE				
MARK	DESCRIPTION	MOUNTING	WATTS	CRI	COLOR	LUMENS	VOLTS	MANUFACTURER(S)	MARK
A	AREA FIXTURE. TYPE II DISTRIBUTION, 20-FOOT STRAIGHT SQUARE STEEL POLE, SECOND MODE VIBRATION DAMPENER, 5-INCH SQUARE, 0.188-INCH THICK, PROVISION FOR VIDEO SURVEILLANCE CAMERA WHERE INDICATED, COLOR SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD CATALOG OF AVAILABLE COLORS. SEE DIVISION 26 SECTION "EXTERIOR LIGHTING" FOR CAMERA AND LIGHT SPILL REQUIREMENTS	POLE	39 W	70	4000K	5500	120-277V	BEACON VIPER AREA OPTIC STRIKE SERIES LITHONIA RSX SERIES LUMARK PREVAIL DISCRETE LED SERIES	A
A-HSS	SAME AS 'A' EXCEPT EQUIPPED WITH HOUSE-SIDE SHIELD, BACK-SIDE-SIDE.	POLE	39 W	70	4000K	5500	120-277V		A-HSS
В	SAME AS 'A' EXCEPT TYPE III DISTRIBUTION.	POLE	39 W	70	4000K	5500	120-277V		В
С	SAME AS 'A' EXCEPT OUTPUT AND TYPE III DISTRIBUTION.	POLE	84 W	70	4000K	10000	120-277V		С
D	SAME AS 'A' EXCEPT OUTPUT AND TYPE IV DISTRIBUTION.	POLE	112 W	70	4000K	15000	120-277V		D
~ E ~	SAME AS 'A' EXCEPT OUTPUT AND TYPE V DISTRIBUTION	POLE	39-W_	~70~	4000K	10000	120-2771		~~~E~
FG	SAME AS 'A' EXCEPT OUTPUT AND TYPE V DISTRIBUTION FLAGPOLE FIXURE, 9-IN INDIRECT, WET LOCATION LISTED. FINISH TO BE SELECTED BY ARCHITECT FROM CATALOG OF STANDARD FINISHES.	FLAGPOLE	49 W	80	4000K	3500	120-277V	KIRLIN LWR-09490 SERIES	FG
FM-3E	STANDARD FINISHES. 3-FOOT NOMINAL, VANDAL RESISTANT, FULL CUT-OFF EGRESS LIGHT. FINISH TO BE SELECTED BY ARCHITECT FROM CATALOG OF STANDARD FINISHES.	MULLION	30 W	80	4000K	3000	120-277V	LUMINAIRE LIGHTING BLADE BLD SERIES	FM-3E
FM-6E	SAME AS 'FM-3E' EXCEPT 72-IN NOMINAL LENGTH	MULLION	55 W	80	4000K	6000	120-277V		FM-6E

	LIGHTING CONTROL SCHEDULE
ADEA	
AREA	DESCRIPTION
ACTIVITY COMMONS	DURING SCHOOL DAY: LIGHTS ON 100%. INSTRUCTOR HAS LOCAL CONTROL. AFTER HOURS: LIGHTS CONTROLLED BY OCCUPANCY SENSORS. INSTRUCTOR HAS LOCAL CONTROLS.
CORRIDORS, HALLWAYS, AND OTHER CIRCULATION	DURING SCHOOL DAY: LIGHTS ON 100%. AFTER HOURS: LIGHTS CONTROLLED BY OCCUPANCY SENSORS.
CLASSROOMS	STAND-ALONE WALLBOX DIMMERS, OCCUPANCY SENSORS, AND POWER PACKS. 2 LIGHTING ZONES.
RESTROOMS	STAND-ALONE OCCUPANCY SENSOR AND POWER PACKS.
CAFETERIA	DURING SCHOOL DAY: LIGHTS ON 100% INSTRUCTOR HAS LOCAL CONTROL BY TOUCH SCREEN IN CAFETERIA. AFTER HOURS: LIGHTING IS CONTROLLED BY OCCUPANCY SENSORS.
DISCOVERY CENTER	DURING SCHOOL DAY: LIGHTS ON 100% INSTRUCTOR HAS LOCAL CONTROL BY TOUCH SCREEN IN MEDIA CENTER OFFICE. AFTER HOURS: LIGHTS CONTROLLED BY OCCUPANCY SENSORS.
STORAGE	STAND-ALONE OCCUPANCY SENSOR, POWER PACK, AND MANUAL SWITCHES.
MECHANICAL AND ELECTRICAL ROOMS	MANUAL CONTROL ONLY.
OFFICES AND CONFERENCE ROOMS	STAND-ALONE WALLBOX DIMMERS, OCCUPANCY SENSORS, AND POWER PACKS.
GYMNASIUM	 DURING SCHOOL DAY: LIGHTS ON 100% INSTRUCTOR HAS LOCAL MANUAL SWITCHES. AFTER HOURS: OCCUPANCY SENSOR CONTROLS. INSTRUCTOR HAS LOCAL MANUAL SWITCHES.
EXTERIOR AREA LIGHTING	TIMECLOCK AND PHOTOCELL CONTROL. ON AT DUSK; OFF START OF CURFEW. ON AT END OF CURFEW; OFF AT DAWN.
EXTERIOR SOFFIT, WALL PACK, AND FLAGPOLE LIGHTS.	PHOTOCELL CONTROL. ON DUSK-TO-DAWN.

NOTE:
• ALL OCCUPANCY SENSORS TO BE CEILING MOUNT UNLESS OTHERWISE

MULTIPLE OCCUPANCY SENSORS WITHIN A ROOM OR CORRIDOR SHALL BE WIRED TOGETHER TO CONTROL ALL OF THE LIGHTS WITHIN THAT SPACE, UNLESS OTHERWISE NOTED.
 TIME DELAY SHALL BE 30 MINUTES UNLESS NOTED OTHERWISE.

NOTES:
CONTRACTOR SHALL SET OUTPUT AND COLOR TEMPERATURE OF ADJUSTABLE FIXTURES AS DIRECTED IN THE FIELD BY THE ENGINEER.

MARK	DESCRIPTION INTERIOR L	MOUNTING				LUMENS	VOLTS	MANUFACTURER(S)	MAI
F01-8	LINEAR 2.5-INCH WIDE BY 8-FT LENGTH. COMPATIBLE WITH ARMSTRONG	SURFACE	57 W	80	4000K	725/FT	120-277V	AXIS SLATE SERIES	F01
	WOODWORKS CEILING. WHITE DIFFUSER, 0-10V DIMMING TO 10-PERCENT, NON-IC RATED. COLOR SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD FINISHES.							ALPHABET ZETA SERIES LUMENWERX SHALO ULTRA SERIES PINNACLE EDGE EX1D SERIES	
F01-8E	SAME AS 'F01-8', EXCEPT WITH GENERATOR TRANSFER DEVICE	SURFACE	57 W	80	4000K	725/FT	120-277V	AVIO DE AMA CERVEO	F01
F02-8	LINEAR 4-INCH WIDE BY 8-FT LENGTH. COMPATIBLE WITH ARMSTRONG METALWORKS CEILING. WHITE DIFFUSER, 0-10V DIMMING TO 10-PERCENT, NON-IC RATED.	RECESSED	78 W	80	4000K	1200/FT	120-277V	AXIS BEAM 4 SERIES LUMENWERX VIA 4 SERIES PINNACLE EV4D SERIES	F02
F02-8E F03	SAME AS 'F02-8' EXCEPT WITH GENERATOR TRANSFER DEVICE PERIMETER RECESSED 2-IN WIDE BY LENGTH INDICATED, 2-1/2" REGRESSED	RECESSED RECESSED	78 W 3.1 W/FT	80 80	4000K 4000K	1200/FT 375/FT	120-277V 120-277V	FOCAL POINT FSM2PR SERIES	F02
1 00	LENS, PROVIDE EMERGENCY CIRCUIT AND GENERATOR TRANSFER DEVICE WHERE INDICATED.	RECEOLD	3.1 44/1 1	00	400010	373/11	120-277	FINELITE HP2WS SERIES PHUNACLE EV2BPM3 SERIES AXIS BEAM 3LED SÉRIES	
F04-4	LINEAR 4-INCH WIDE BY 8-FT LENGTH. WHITE DIFFUSER, 0-10V DIMMING TO 10-PERCENT, NON-IC RATED.	RECESSED	29 W	80	4000K	725/FT	120-277V	FINELITE HP-4 R SERIES FOCAL POINT FSM4L SERIES PINNACLE EV4D SERIES	F0
F04-4E	SAME AS 'F04-4E' EXCEPT WITH GENERATOR TRANSFER DEVICE	RECESSED	29 W	80	4000K	725/FT	120-277V		F04
F05-8	SAME AS 'F01-8', EXCEPT MOUNTING.	PENDENT	57 W	80	4000K	725/FT	120-277V	AXIS SLATE PENDANT SERIES ALPHABET ZETA SERIES LUMENWERX SHALO ULTRA SERIES PINNACLE EDGE EX1D SERIES	F0
F06	LINEAR DIRECT 4-INCH WIDE BY 7'-10". BAFFLE CEILING. AIRCRAFT CABLE, WHITE DIFFUSER, 0-10V DIMMING TO 10-PERCENT, COLOR SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD FINISHES.	PENDENT	7.1 W/FT	80	4000K	1000/FT	120-277V	FINELITE HP-4 D SERIES FOCAL POINT FSM4LS SERIES PINNACLE EDGE EX4D SERIES	F
F06E	SAME AS 'F06' EXCEPT WITH GENERATOR TRANSFER DEVICE	PENDENT	7.1 W/FT	80	4000K	1000/FT	120-277V		F0
F07-12	LINEAR 4-INCH WIDE BY 12-FT WHITE DIFFUSER, INTEGRAL OCCUPANCY SENSOR, 0-10V DIMMING TO 10-PERCENT, NON-IC RATED, COLOR SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD FINISHES.	PENDENT	85 W	80	4000K	800/FT	120-277V	FINELITE HP-4 D SERIES FOCAL POINT FSM4LS SERIES PINNACLE EX4D SERIES	F07
F07-12E F08	SAME AS 'F07-12' EXCEPT WITH GENERATOR TRANSFER DEVICE. SPECIALTY FIXTURE. LINEAR DIRECT/INDIRECT. ONE FIXTURE WITH SIX PARTS.	PENDENT PENDENT	85 W 160 W	80 80	4000K 4000K	800/FT 15000	120-277V 120-277V	SPI PAVO 2 HORIZONTAL SERIES	F07
. 00	(1) 12-FT, (2) 8-FT, (3) 4-FT LENGTHS. POWER OVER SUSPENSION WIRES. WHITE DIFFUSER, 0-10V DIMMING TO 10-PERCENT, LOCATION AND SUSPENSION LENGTH AS DIRECTED IN THE FIELD BY THE ARCHITECT.	LINDLINI	100 00		TOOK	10000		ARANCIA FRICI2 SERIES LIGHTING ELÉMENTS HALO TUBE HS SERIES	
F09-10E	LINEAR 4-INCH WIDE BY 10-FT WHITE DIFFUSER, 0-10V DIMMING TO 10-PERCENT, NON-IC RATED, PROVIDE GENERATOR TRANSFER DEVICE, COLOR SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD FINISHES.	PENDENT	85 W	80	4000K	800/FT	120-277V	FINELITE HP-4 D SERIES FOCAL POINT FSM4LS SERIES PINNACLE EX4D SERIES	F09
F30	OPEN DOWNLIGHT, 2-INCH DIAMETER APERTURE. CLEAR SEMI-SPECULAR REFLECTOR, 0-10V DIMMING TO 10-PERCENT, NON-IC RATED. FLANGELESS MUD-IN TRIM.	RECESSED	13 W	80	4000K	1000	120-277V	GOTHAM EVO2 SERIES PORTFOLIO LD2B SERIES PRESCOLITE D2LED SERIES	F
F32	OPEN DOWNLIGHT, 6-INCH DIAMETER APERTURE. CLEAR SEMI-SPECULAR REFLECTOR, 0-10V DIMMING TO 10-PERCENT, NON-IC RATED. SELF-FLANGED WHITE TRIM.	RECESSED	14.5 W	80	4000K	1500	120-277V	HALO COMMERCIAL HC6 SERIES LITHONIA LDN6 SERIES PRESCOLITE LC6 SERIES	F
F32E F33	SAME AS 'F32' EXCEPT WITH GENERATOR TRANSFER DEVICE SAME AS 'F32' EXCEPT WITH FLANGELESS MUD-IN TRIM.	RECESSED RECESSED	14.5 W 14.5 W	80 80	4000K 4000K	1500 1500	120-277V 120-277V		F3
F33E	SAME AS 'F33' EXCEPT WITH GENERATOR TRANSFER DEVICE	RECESSED	14.5 W	80	4000K	1100	120-277V		F3
F34	6-INCH ROUND SURFACE DOWNLIGHT, WET LOCATION LISTED, FIELD PAINTED TO SOFFIT COLOR.	RECESSED	12.3 W	80	4000K	1000	120-277V	PRESCOLITE LBSD-6RD SERIES JUNO JSF-7IN SERIES HALO SMX6 SERIES	F
F35	SAME AS 'F32' EXCEPT WITH FLANGELESS MUD-IN TRIM AND SLOPED CEILING ADAPTER.	RECESSED	14.5 W	80	4000K	1500	120-277V		F
F60	4-FOOT LENSED INDUSTRIAL STRIP, FORMED STEEL HOUSING, WHITE FINISH, SEMI-FROST ACRYLIC DIFFUSER.	SURFACE/ CHAIN HUNG	48 W	80	4000K	5000	120-277V	COLUMBIA MPS SERIES LITHONIA ZL1D SERIES METALUX SNLED SERIES	F
F60E	SAME AS 'F60' EXCEPT WITH GENERATOR TRASNFER DEVICE	SURFACE/ CHAIN HUNG	48 W	80	4000K	5000	120-277V		F6
F80	HIGH BAY FIXTURE. WHITE FINISH, MEDIUM DISTRIBUTION, FROSTED GLASS OPTIC, WIRE GUARD, SAFETY HOOK, AND 3-FOOT CHAIN.	SUSPENDED	175 W	80	4000K	24000	120-277V	HUBBELL LBX SERIES METALUX SSLED SERIES HOLOPHANE PHZ SERIES	F
F80E	SAME AS 'F80', EXCEPT WITH GENERATOR TRANSFER DEVICE.	SUSPENDED	175 W	80	4000K	24000	120-277V		F8
F82	4-FOOT LENSED INDUSTRIAL STRIP, WET-LOCATION LISTED. GASKETED, NON-METALLIC HOUSING, RIBBED FROSTED ACRYLIC SHIELDING, STAINLESS STEEL LATCHES.	SURFACE WALL	47 W	80	4000K	4850	120-277V	COLUMBIA LXEM SERIES METALUX 4VT2 SERIES LITHONIA FEM SERIES	F
F90	1 BY 4-FOOT FLAT PANEL, ACRYLIC LENS, EDGE-LIT, 0-10V DIMMING TO 10-PERCENT, ADJUSTABLE OUTPUT AND COLOR TEMPERATURE.	RECESSED	22/31/41 W		/5000K	2400/3300/4400	120-277V	COLUMBIA SRP14 SERIES LITHONIA CPANL14 SERIES METALUX 14FP SERIES	F
F91	2 BY 2-FOOT FLAT PANEL, ACRYLIC LENS, EDGE-LIT, 0-10V DIMMING TO 10-PERCENT, ADJUSTABLE OUTPUT AND COLOR TEMPERATURE.				/5000K	2400/3300/4400	120-277V	COLUMBIA SRP22 SERIES LITHONIA CPANL22 SERIES METALUX 22FP SERIES	F
F91C	2 BY 2-FOOT RGBW FLAT PANEL, ACRYLIC LENS, EDGE-LIT, 0-10V DIMMING TO 10-PERCENT, COLOR CHANGING RGBW WITH REMOTE.	RECESSED	32 W	80	RGBW	3200	120-277V	BARRON RGBWFP22	FS
F91E X1CC	SAME AS 'F91' EXCEPT WITH GENERATOR TRANSFER DEVICE ARCHITECTURAL EDGE LIT EXIT SIGN, CLEAR PANEL, SINGLE FACE, ALUMINUM HOUSING.	RECESSED RECESSED CEILING	32 W 5 W	80	4000K GREEN	3200 N/A	120-277V 120-277V	SURE-LITES ARCEL SERIES	F9 X1
X1CM	ARCHITECTURAL EDGE LIT EXIT SIGN, MIRRORED PANEL, SINGLE FACE, ALUMINUM HOUSING.	RECESSED CEILING	5 W		GREEN	N/A	120-277V	SURE-LITES ARCEL SERIES	X1
X1CM2	ARCHITECTURAL EDGE LIT EXIT SIGN, DOUBLE FACE WITH MIRRORED PANEL, ALUMINUM HOUSING, CHEVRONS AS INDICATED.	RECESSED CEILING	5 W		GREEN	N/A	120-277V	SURE-LITES ARCEL SERIES	X10
X1EM	ARCHITECTURAL EDGE LIT EXIT SIGN, MIRRORED PANEL, ALUMINUM HOUSING, FLAG/END MOUNTED.	SURFACE WALL	5 W		GREEN	N/A	120-277V	SURE-LITES ARCEL SERIES	X1
X1MM	ARCHITECTURAL EDGE LIT EXIT SIGN, MULLION/INVERTED MOUNT, MIRRORED PANEL, ALUMINUM HOUSING.	SURFACE MULLION	5 W		GREEN	N/A	120-277V	SURE-LITES ARCEL SERIES	X1
X1WC	ARCHITECTURAL EDGE LIT EXIT SIGN, CLEAR PANEL, ALUMINUM HOUSING.	SURFACE WALL	5 W		GREEN	N/A	120-277V	SURE-LITES ARCEL SERIES	X1
X2W	DIE-CAST ALUMINUM EXIT SIGN, VANDAL RESISTANT, WHITE HOUSING.	SURFACE WALL	5 W		GREEN	N/A	120-277V	SURE-LITES UX SERIES LITHONIA EXTREME SERIES DUAL-LITE SEWL SERIES	X
X3W	DIE-CAST ALUMINUM EXIT SIGN, WHITE HOUSING.	SURFACE WALL	5 W		GREEN	N/A	120-277V	SURE-LITES CX SERIES LITHONIA SIGNATURE SERIES DUAL-LITE SE SERIES	X

					FLOOR BOX SCHED	ULE			
MARK (TAG)	CAPACITY	MANUFACTURER MODEL NUMBER	APPLICATION	CONSTRUCTION	COVER	FINISH	POWER DEVICES & PLATES	IT DEVICES & PLATES	CONDUITS
A	2-GANG	HUBBELL# CFB2G30CR (EPOXY COATED)	ON-GRADE	DIE CAST ALUM. COVER	RECTANGULAR (SURF.): 24GCCVRCPT	ALU (ALUMINUM)/ BK (BLACK)/ BRS (BRASS)/ BRZ(BRONZE)/ NK (SATIN NICKEL)	(1) TAMPER-RESISTANT DUPLEX	(1) DATA (KEYSTONE) #FBMP6KS	(1) 3/4" POWER (1) 1-1/4" IT

- NO CONDUIT LARGER THAN 1" SHALL BE INSTALLED IN FLOOR SLAB. ALL CONDUITS LARGER THAN 1" SHALL BE ROUTED BELOW THE FLOOR SLAB.
- COORDINATE INSTALLATION OF FLOOR BOXES WITH GENERAL TRADES AND FLOOR CONSTRUCTION. IN SOME CASES, THE BOX IS DEEPER THAN THE CONCRETE SLAB.
- ON-GRADE BOXES SHALL INCLUDE A FUSION-BONDED EPOXY PAINT FINISH TO PROTECT AGAINST CORROSION AND SHALL BE RATED FOR ON-GRADE USE.
- 4. COVER FINISH SHALL BE VERIFIED WITH ARCHITECT.
- 5. FLOOR BOXES SHALL BE UL 514A AND SCRUB WATER COMPLIANT.

- 7. COVERS SHALL ALLOW 180 DEGREE OPENING WITH TWO LARGE CABLE EGRESS DOORS.
- 8. PROVIDE NECESSARY DEVICE PLATES INSIDE BOX.
- 9. FLOOR BOXES SHALL BE HUBBELL "SYSTEM ONE" OR EQUAL BY WIREMOLD.
- 10. VERIFY EXACT LOCATION OF FLOOR BOXES WITH ARCHITECT PRIOR TO ROUGH-IN.
- 11. CONFIRM FLOOR TYPE AND FINISH PRIOR TO RELEASING ORDER.



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D&A #24063

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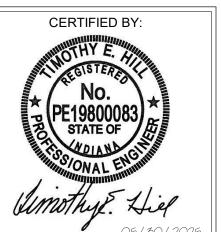
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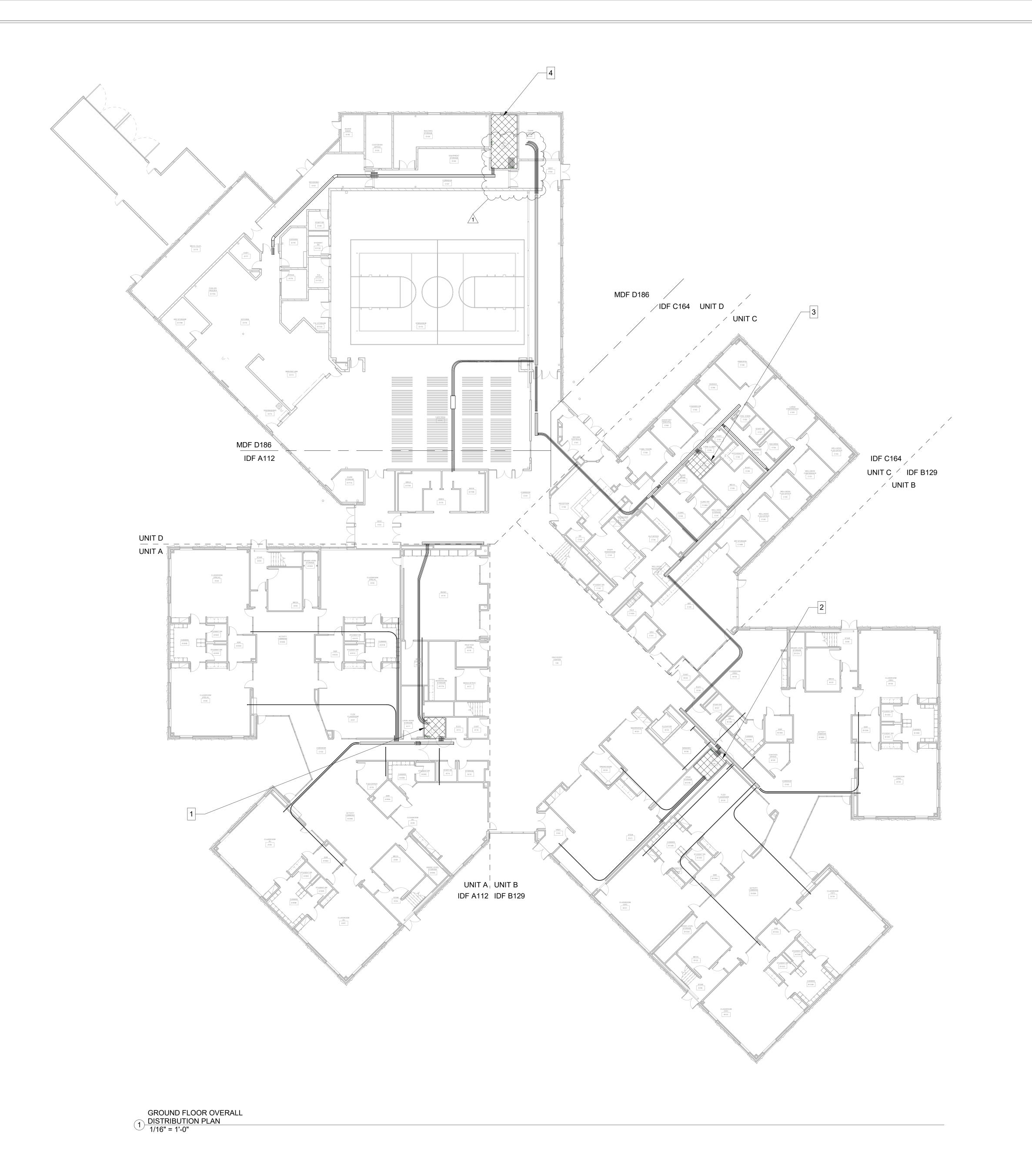
REVISIONS: Addendum #1 06/10/2025

ISSUE DATE | DRAWN BY | CHECKED BY 05/30/2025 LPC TEH

DRAWING TITLE: SCHEDULES -ELECTRICAL



DRAWING NUMBER



GENERAL PATHWAYS NOTES

- A ALL CABLING SHALL BE TERMINATED IN THE ER/TR NOTED IN THE TELECOM SCHEDULES.
- B CONTRACTOR SHALL SUPPLY ALL CONDUIT, BOXES, AND CABLE TRAY AS REQUIRED TO ENSURE ALL TRANSMISSION MEDIA IS FULLY SUPPORTED FROM ALL
- DEVICE LOCATIONS TO THE POINT OF TERMINATION. C ALL TELECOM PATHWAY SYSTEMS SHALL BE INDEPENDENTLY SUPPORTED FROM AND ATTACHED TO
- THE BUILDING STRUCTURE. D ALL TELECOM PATHWAY SYSTEMS SHALL BE COMPLETELY AND PROPERLY LABELED AS REQUIRED
- IN REFERENCED STANDARDS. E CONDUIT SYSTEMS SHALL BE PROVIDED FOR ALL PATHWAYS IN INACCESIBLE CEILING SPACES AND WHERE EXPOSED TO PUBLIC VIEW. ALL CONDUIT SYSTEMS THROUGHOUT THE BUILDING SHALL INCLUDE

PROPERLY SIZED SLEEVED PENETRATIONS WITH

F ALL TELECOM OUTLET BOXES SHALL BE A MINIMUM 4-11/16" SQUARE BOX NO LESS THAN 2-1/8" DEEP WITH A MINIMUM 1-1/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE WITHIN THE T-SERIES DRAWINGS.

BUSHINGS THROUGH ALL BARRIERS.

- G CORRIDOR CABLE TRAY SHALL BE PROVIDED AS REQUIRED BY THE CONTRACT DRAWINGS. REFER TO DIVISION 27 SPECIFICATIONS FOR ADDITIONAL PRODUCT DETAILS AND REQUIREMENTS.
- H CONTRACTOR SHALL NOT EXCEED 40% FILL RATIO WITHIN ANY CONDUIT MEANT FOR TELECOMMUNICATIONS CABLING.
- I CONTRACTOR SHALL CALCULATE FILL RATIOS BASED ON ACTUAL CATEGORY 6A CABLING USED. TYPICAL FILL RATIOS FOR CATEGORY 6A CABLE ARE SHOWN HERE FOR REFERENCE PURPOSES ONLY: 1" EMT = 5 CABLES;
- 1-1/4" EMT = 9 CABLES; 2" EMT = 21 CABLES; 3" EMT = 57 CABLES;
- 4" EMT = 93 CABLES J CONDUIT RUNS SHALL NOT EXCEED 100 FEET WITHOUT A PULLING POINT AND SHALL NOT INCLUDE MORE THAN TWO 90° BENDS BETWEEN PULLING POINTS. IF THE

PATH OF THE CONDUIT RUN REQUIRES BENDS EXCEEDING A TOTAL OF 180°, INSTALLATION OF AN

- APPROPRIATELY SIZED JUNCTION BOX IS REQUIRED. K CONTRACTOR SHALL PROVIDE PROPERLY RATED FIRE STOP SYSTEMS FOR ALL CONDUIT AND/OR CABLE TRAY ENTERING THE TELECOMMUNICATIONS ROOMS. EACH CONTRACTOR IS RESPONSIBLE FOR SEALING PENETRATIONS AFTER EACH SCOPE OF WORK IS COMPLETED.
- L CONTRACTOR SHALL PROVIDE FIRE STOPS TO SEAL ALL PENETRATIONS THROUGH FLOORS, WALLS, STAIRS, AND ELEVATORS AS NECESSARY TO MEET CODE REQUIREMENTS. FIRE STOPS SHALL BE PROVIDED IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS.
- M PORTIONS OF THE BUILDING HAVE A TWO STORY STRUCTURE VOLUME AND DO NOT CONTAIN A SECOND LEVEL ABOVE. THESE AREAS WILL REQUIRE INCREASED TRADE SIZES FOR ALL-THREAD AND ADDITIONAL SUPPORTING MEANS FOR DISTRIBUTION SYSTEMS. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL DISTRIBUTION SYSTEMS ARE PROPERLY SUPPORTED AND RIGID TO MOVEMENT. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS TO DETERMINE EXTENT OF LOCATIONS IMPACTED.

SHEET NOTES

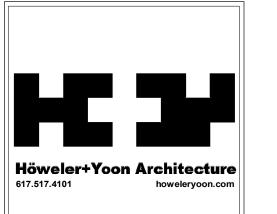
- 1 IDF A112 LOCATION. 2 IDF B129 LOCATION.
- 3 IDF C164 LOCATION. 4 MDF D186 LOCATION.

KEY PLAN



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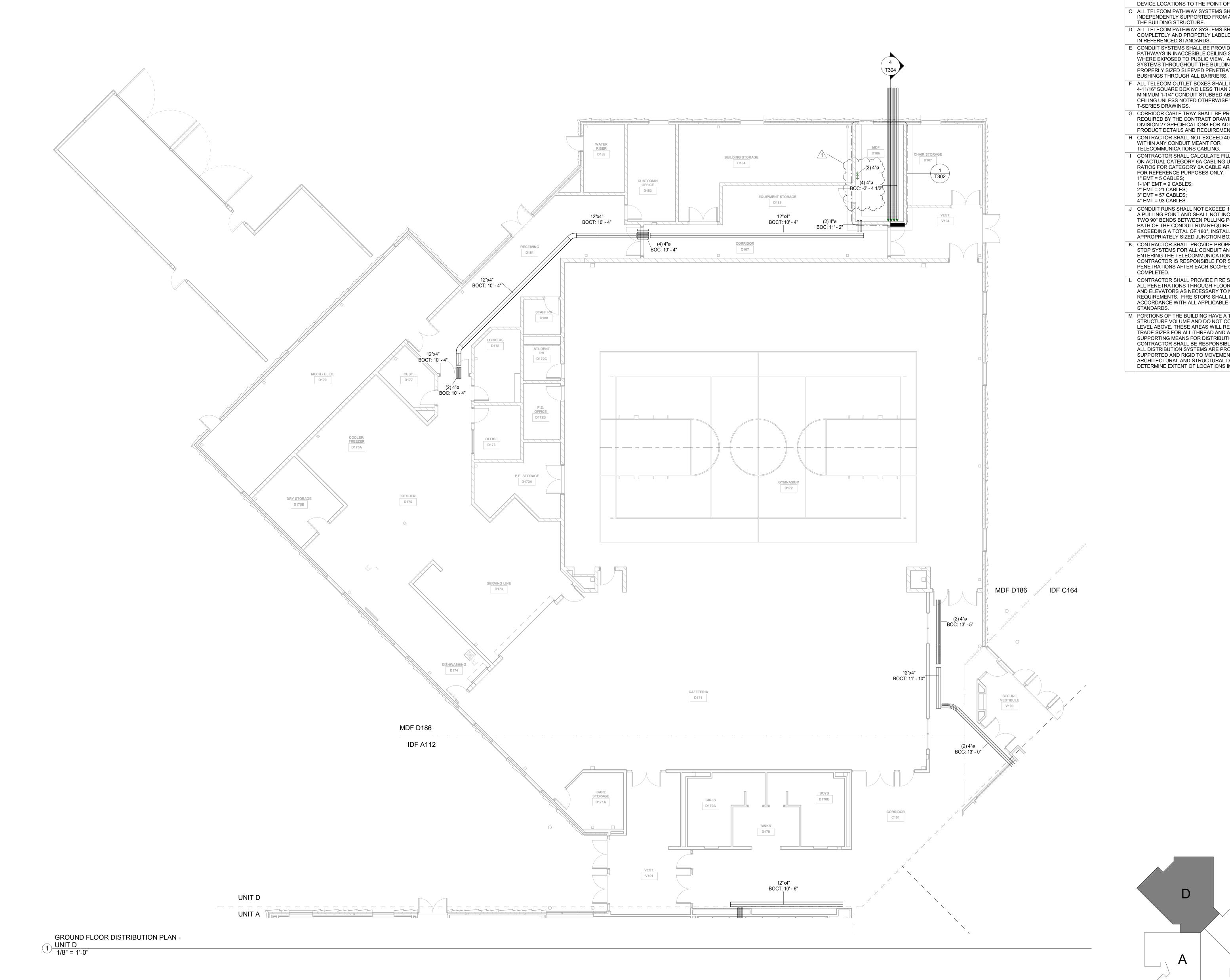
MKD

05/30/2025

DRAWING TITLE: GROUND FLOOR **OVERALL** DISTRIBUTION PLAN



DRAWING NUMBER



GENERAL PATHWAYS NOTES

- A ALL CABLING SHALL BE TERMINATED IN THE ER/TR
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KEY PLAN

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REVISIONS: ADDENDUM #1 06/10/25

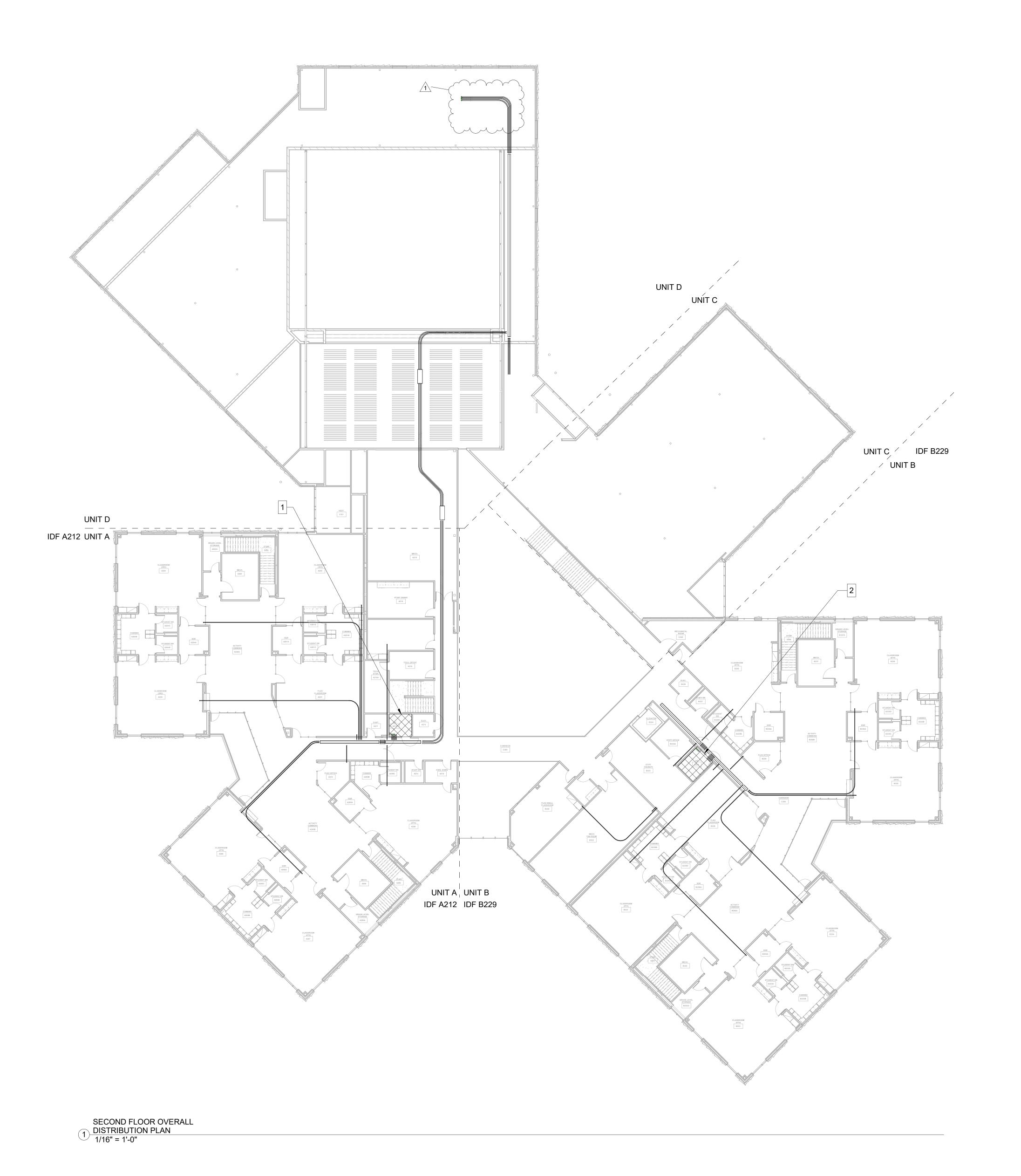
ISSUE DATE | DRAWN BY | CHECKED BY

DRAWING TITLE: GROUND FLOOR DISTRIBUTION PLAN - UNIT D

MKD



DRAWING NUMBER T101D



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SHEET NOTES

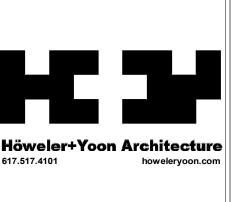
IDF A212 LOCATION.
 IDF B229 LOCATION.

KEY PLAN

WBCSC TOGETHER WE LEARN



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BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
MAPLE GROVE ELEMENTAR TIPTON LAKES BLVD, COLUMBUS, IN 47201

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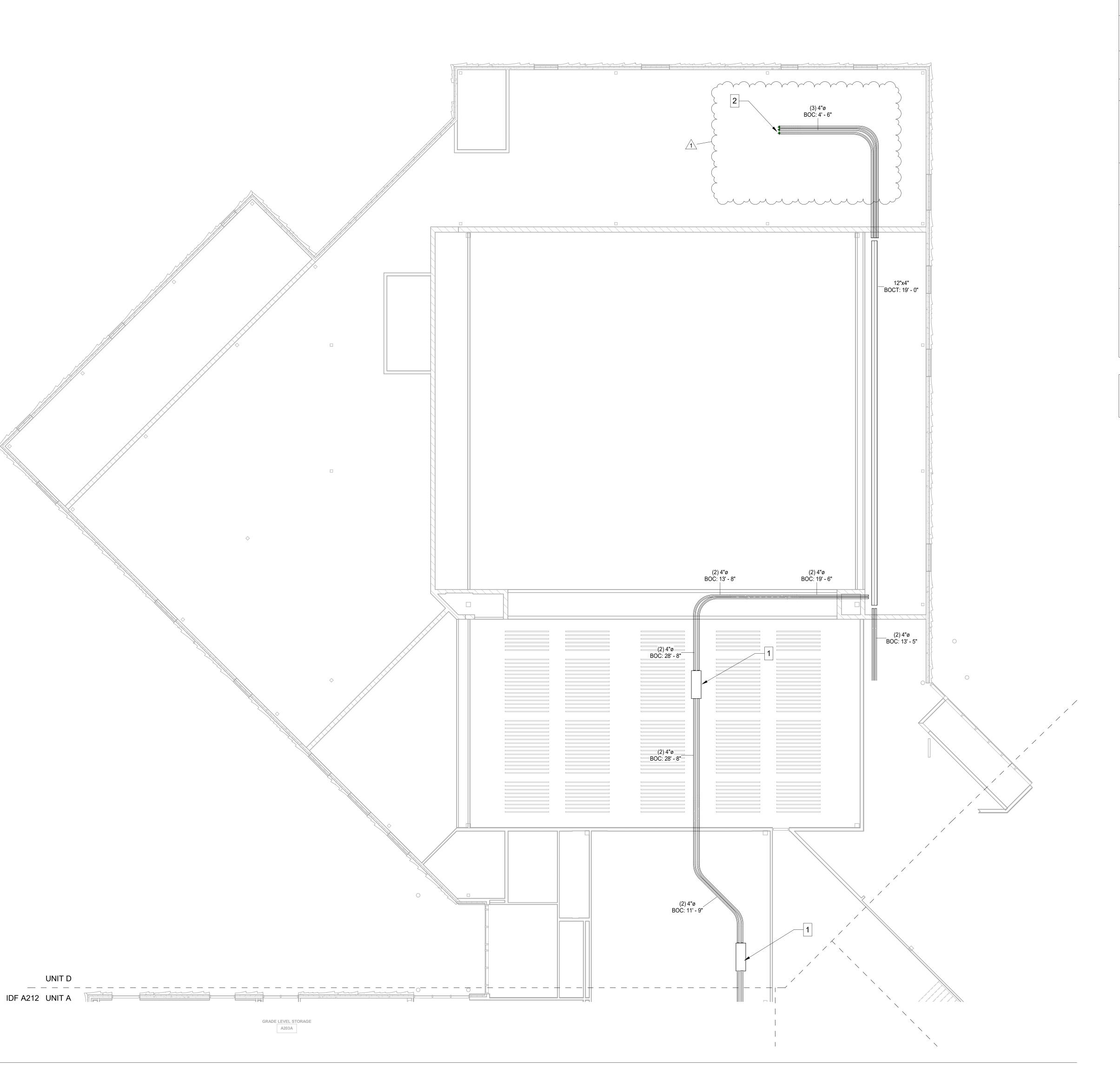
MKD

05/30/2025

SECOND FLOOR
OVERALL
DISTRIBUTION
PLAN



T102



SECOND FLOOR DISTRIBUTION PLAN -

1 UNIT D 1/8" = 1'-0"

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SHEET NOTES

 5' W x 1'-9" L x 8" D JUNCTION BOX MOUNTED TO STRUCTURE.
 VERTICAL CONDUIT STUBBED DOWN TO MDF.

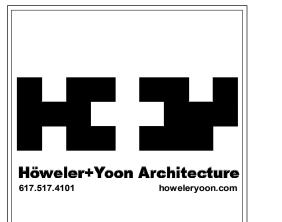
KEY PLAN





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JE DATE | DRAWN BY | CHECKE

MKD

DRAWING TITLE:
SECOND FLOOR
DISTRIBUTION
PLAN - UNIT D



T102D

PROJECT NUMBER

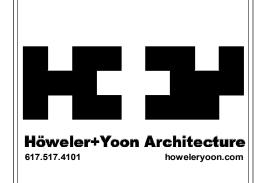
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ADDENDUM #1 06/10/25

ISSUE DATE DRAWN BY CHECKED BY
05/30/2025 MKD JKK

ENLARGED TR
LAYOUTS



T302

Originator	RFI Description	Question	Response	Ball in Court Date Opened	Status
		There are some specifications that were included in 90% CD's but aren't in 100% CD's and vise versa. Is			
		the 100% CD list the best and final or do previous sections still apply? See 05 12 13 from 90%'s no longer	The current spec list is best and final.		
Pepper	Spec Section Differences 90% to 100% CD's	in 100%'s for example. (2025-06-03 MO)	There is no AESS on the jobECN	2025-06-03	Closed
HDI Railings	Substitution Request - Railings	See substitution request submitted to design team. (2025-06-03 MO)	Approved. Will be added via ADD 1ECN	2025-06-03	Closed
		12 93 00 Site furnishings is listed on the 100% spec table of contents. Assuming this is just a typo/accidental add because the spec in this location of the bid manual is 32 33 00. Please confirm. (2025-	This is correct. It was a naming issue on		
Pepper	100% CD Spec Table of Contents Confirmation	106-04 MO)	our side. To be corrected in ADD 1ECN	2025-06-04	Closed
Реррег	100 % CD Spec Table of Contents Confirmation	00-04 MO)	The sections in the L series are correct	2025-06-04	Ciosea
			per Geotech recommendations. Civil will		
		Asphalt paving sections shown in details 201,202/C800 are different than sections shown in details	remove asphalt details from Sheet C800		
TBCCI	Asphalt Paving Sections	1,2/L600. Please advise.	in forthcoming addenda	2025-06-04	Closed
		Keynote F27 GameTime Sway Bench is scheduled with the playground equipment on sheet L110 but is not	Sway Bench has been added to the Site		
TBCCI	Playground Equipment - Sway Bench Specifications	specified in section 11 68 00. Please advise.	Furnishing Spec. 323300 - LAM	Context 2025-06-04	Open
	5		This was an extra keynote and will be		
TBCCI	Playground Equipment - Sway Bench Locations	drawing like the other two locations. Please clarify.	removed in ADD1 - LAM Specification is correct. Goalrilla	Context 2025-06-04	Open
		Keynote F30 on sheet L110 indicates basketball goals to be Goalrilla and refers to the specifications.	reference has been removed from sheet		
TBCCI	Playground Equipment - Basketball Goal Specifications	Section 11 68 00 – 2.1 A.19 indicates basketball goals to be Gared Sports. Please clarify.	L110 - LAM	Context 2025-06-04	Open
. 200.	rayground Equipment Bucherban Court opcomoditions	Keynote F16 on sheet L110 indicates a 10' mound. Section 32 18 18 – 2.1 B.1.b indicates an 8' mound.	10' mound is correct. This will be	2020 00 01	Орон.
TBCCI	Playground Surfacing - Mound Size	Please clarify.	updated in ADD 1 - LAM	Context 2025-06-04	Open
	-				
		Specification section 01 45 10, section 1.03 references a visual, stand-alone mockup. However a mockup	An exterior wall mockup drawing will be		
Pepper	Mockups	detail has not been issued in the drawings. Please provide to ensure mockup costs do not exceed \$50,000.	added in addendum 1LNM		Closed
		Specification section 23 08 00 indicates there is a 3rd party Commissioning agent. Please confirm that the			
_	10/400	owner will contract direct with the Cx agent. Pepper and its subcontractors has included coordination with			
Pepper Midwest Cabinet Solutions	HVAC Commissioning Casework Manufacturer Substitution Request	commissioning agent per the specification. See substitution request submitted to design team. (2025-06-06 MO)	Pending Pepper responseECN	CSO June 5 2025 Pepper 2025-6-6	
iviluwest Cabinet Solutions	Casework Manufacturer Substitution Request	See substitution request submitted to design team. (2025-06-06 MO)	The intent is stainless steel at the glass	Pepper 2025-6-6	Open
		Sheet #A460, A462 & A463 Note The Stair Hand Railings "05 52 13-A 1 1/4" Stainless Steel Handrail",	railing - 05 73 00. Spec to be updated.		
		However, Spec. Section #05 52 13 is Stated "Aluminum Pipe & Tube Railings". Are The Hand Railings for	Aluminum is at the remainder of the stair		
Jerico	Stainless vs Alum. Handrails 05 52 13	The Stairs Meant to Be Stainless Steel or Aluminum ? (2025-06-07 MO)	locationsECN	2025-06-07	Closed
			CSO to revise plan note 6 to read 42".		
		Sheets A202A and A202B, Plan note #6 calls out a 4' high glass rail, but section cuts for the interior rail	Only exterior locations have 48"		
MAB Associates	A202A and A202B Handrail heights	shows 42" high. Please clarify heights. (2025-06-07 MO)	requirementECN	2025-06-07	Closed
		There does not appear to be a finish called out for the operable panel partition. Please confirm desired	Finish to be selected on 800 series sheet		
CIH	Operable Panel Partition Finish	finish. (2025-06-09 MO)	via ADD #1 - ECN	2025-06-09	Closed
Furanisus	12 32 16 P-Lam Substitution Request	See substitution request submitted to design team. (2025-06-09 MO)	Approved. Will be added by ADD #1 ECN	CSO 2025-06-09	Open
Euronique	12 32 16 P-Lam Substitution Request	Referring to K102, items 53, 57, and 63. 53 and 57 are 42" deep per sections 12 and 13 on K601 but about	ECN	CSO 2025-06-09	Open
		10" larger on plans. General practice is not to scale off drawings, but with a 10" difference, please confirm			
		sections cut depths are correct. Additionally, are there any details/sections for 63 tray carts? (2025-06-09			
GLHS	Food Service Equipment Details	MO)		CSO 2025-06-09	Open
		Section 6 on Sheet A460 Has Both Keynotes 57300-D & 57300-E, Stainless Steel Glass Cap and Wood			
		Cap. Is It The Intention to Have Wood Cap at The Stair? And If So, What About the Corridor #204 That is	All caps will be stainless steel. Revised in		
Jerico	A460 Caps	Connected? It is Noted as Stainless Steel There. (2025-06-09 MO)	ADD #1ECN	CSO 2025-06-09	Open
		Per Provider T000 Petril #0 are and a reside and install a Office and a ship form the MPF to the IPF's			
C-Cat	T300 Detail 2 Copper Cable Type	Per Drawing T300, Detail #2, we are to provide and install a 25pr copper cable from the MDF to the IDF's. Can you clarify what type of 25pr copper cable we are to provide, (Cat3 or Cat5e)? (2025-06-09 MO)		CSO 2025-06-09	Open
- Jai	1000 Dotali 2 Oopper Gable Type		I .		Open
		Regarding Drawing T001, fiber is called out for two of the seven camera and/or AP outside locations. Can		2023-00-03	
		Regarding Drawing T001, fiber is called out for two of the seven camera and/or AP outside locations. Can vou clarify what is required for the other five locations? All locations, minus Camera C-12 are beyond the		2023-00-09	
		Regarding Drawing T001, fiber is called out for two of the seven camera and/or AP outside locations. Can you clarify what is required for the other five locations? All locations, minus Camera C-12 are beyond the 100m cable distance. Will extended distance cable be approved or do we need to provide fiber to all		2020-00-03	
C-Cat	Outdoor Camera/AP Location Wiring	you clarify what is required for the other five locations? All locations, minus Camera C-12 are beyond the 100m cable distance. Will extended distance cable be approved or do we need to provide fiber to all locations over 100m? (2025-06-09 MO)		CSO 2025-06-09	Open
	<u>, </u>	you clarify what is required for the other five locations? All locations, minus Camera C-12 are beyond the 100m cable distance. Will extended distance cable be approved or do we need to provide fiber to all locations over 100m? (2025-06-09 MO) Can you provide the location of the WAN Provider so we can get the length of the copper/fiber backbone		CSO 2025-06-09	
C-Cat	T300 Detail 2 Wan Provider Location	you clarify what is required for the other five locations? All locations, minus Camera C-12 are beyond the 100m cable distance. Will extended distance cable be approved or do we need to provide fiber to all locations over 100m? (2025-06-09 MO) Can you provide the location of the WAN Provider so we can get the length of the copper/fiber backbone required? (2025-06-10 AD)		CSO 2025-06-09 CSO 2025-06-10	Open
	<u>, </u>	you clarify what is required for the other five locations? All locations, minus Camera C-12 are beyond the 100m cable distance. Will extended distance cable be approved or do we need to provide fiber to all locations over 100m? (2025-06-09 MO) Can you provide the location of the WAN Provider so we can get the length of the copper/fiber backbone		CSO 2025-06-09	Open
C-Cat	T300 Detail 2 Wan Provider Location	you clarify what is required for the other five locations? All locations, minus Camera C-12 are beyond the 100m cable distance. Will extended distance cable be approved or do we need to provide fiber to all locations over 100m? (2025-06-09 MO) Can you provide the location of the WAN Provider so we can get the length of the copper/fiber backbone required? (2025-06-10 AD) See substitution request submitted to design team. (2025-06-10 MO)	Superior Essex Cable is acceptable.	CSO 2025-06-09 CSO 2025-06-10	Open
C-Cat Spohn	T300 Detail 2 Wan Provider Location 05 73 00 Substitution Request - Hollaender	you clarify what is required for the other five locations? All locations, minus Camera C-12 are beyond the 100m cable distance. Will extended distance cable be approved or do we need to provide fiber to all locations over 100m? (2025-06-09 MO) Can you provide the location of the WAN Provider so we can get the length of the copper/fiber backbone required? (2025-06-10 AD) See substitution request submitted to design team. (2025-06-10 MO) Substitution Request - Can Superior Essex Cat 6A cable and Ortronics Cat 6A jack modules be acceptable	Ortonics connectivity is not acceptable	CSO 2025-06-09 CSO 2025-06-10 CSO 2025-06-10	Open
C-Cat	T300 Detail 2 Wan Provider Location	you clarify what is required for the other five locations? All locations, minus Camera C-12 are beyond the 100m cable distance. Will extended distance cable be approved or do we need to provide fiber to all locations over 100m? (2025-06-09 MO) Can you provide the location of the WAN Provider so we can get the length of the copper/fiber backbone required? (2025-06-10 AD) See substitution request submitted to design team. (2025-06-10 MO) Substitution Request - Can Superior Essex Cat 6A cable and Ortronics Cat 6A jack modules be acceptable manufacturers in addition to Panduit? (2025-06-10 AD)		CSO 2025-06-09 CSO 2025-06-10	Open
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C-Cat Spohn R and M Electric Pepper	T300 Detail 2 Wan Provider Location 05 73 00 Substitution Request - Hollaender 27 15 43 Substitution Request - Superior Essex Cable & Ortronics devices Structural Steel AISC Requirement Glass Railing Wood Cap Alternate #5 Clarification Site Furnishings - Revised Section 32 33 00 Missing from Addendum 1	you clarify what is required for the other five locations? All locations, minus Camera C-12 are beyond the 100m cable distance. Will extended distance cable be approved or do we need to provide fiber to all locations over 100m? (2025-06-09 MO) Can you provide the location of the WAN Provider so we can get the length of the copper/fiber backbone required? (2025-06-010 AD) See substitution request submitted to design team. (2025-06-10 MO) Substitution Request - Can Superior Essex Cat 6A cable and Ortronics Cat 6A jack modules be acceptable manufacturers in addition to Panduit? (2025-06-10 AD) Specification section 05 12 00 requires the steel fabricator is AISC certified. Can this requirement be waived? SMI is not AISC certified but is a member and implements a quality program that is equal to or exceeds the requirements in the AISC certification program. We are also an IDOA Certified facility and have a successful history of projects of similar size and scope. Details 4 and 5/A460: Define species and stain color of wood cap on glass rail. It is assumed that the alternate #5 rugs are provided in addition to the carpet tile and LVT in the respective areas. Please confirm that is the case and the rugs are not provided in lieu of the carpet tile/LVT.	Ortonics connectivity is not acceptable JKK Please see previous answers regarding railings. To be addressed in ASI 1ECN	CSO 2025-06-09 CSO 2025-06-10 CSO 2025-06-10 D27	Open Open
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Pepper	E100 Valve Pits/Vaults	Can you please confirm who's responsible for providing and installing the vaults shown on drawing E100?	Geothermal per M100 and are scoped in BP-10 per item LL.	Pepper	6/12/25	
			and Valve Vault #2 on E100, are for			
			other 2 vaults, labeled Valve Vault #1			
			shown on C501 Utility Plan. The			
			fire/domestic water service and			
			on E100. This one is for the			
			east end of the site labeled Valve Pit			
			3 vaults in question - the one at the			
			BP-01 scope item YY covers 1 of the			

Bartholomew Consolidated School Corporation New Elementary School #12 - Maple Grove

PROJECT BID MANUAL

revised 6/12/2025

Owner

Bartholomew Consolidated School Corporation

Architect

CSO and Höweler + Yoon Architecture, LLP

Construction Manager

Pepper Construction



PROJECT BID MANUAL

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PROJECT BID MANUAL

INVITATION TO BID

June 6, 2025

PROJECT DESCRIPTION: Pepper Construction has been selected as the Construction Manager for the Bartholomew Consolidated School Corporation (BCSC) - New Elementary School #12 - Maple Grove project located at Tipton Lake Blvd, Columbus, IN 47201. This project consists of a new ground-up, 2-story 100,000 GSF elementary school located on a 7-acre site. The building consists of cast-in-place concrete, architectural precast panels, structural steel, metal panels, PVC membrane roof and storefront/curtainwall. The school includes a cafeteria area, gymnasium, and office space for staff and each wing of the school consists of an activity commons area with classrooms, restrooms, and small group areas. The school will have a new geothermal HVAC system located on the north side of the site. The site consists of new playground areas with playground surfacing, barrier and metal gates, asphalt paving, concrete paving and curbs and landscaping.

Construction is anticipated to begin September 2025 and end April 2027

Please refer to the Project Bid Manual (this document) for the most up to date bid packages & bid due dates.

Pepper Construction requests competitive bids for the following BID DAY #1 packages (bid day 6/24/25):

- BP-02B: Masonry
- BP-03: Precast
- BP-04: Structural & Misc. Steel
- BP-05: Glass/Glazing and Metal Panels
- BP-06: Roofing & Flashing
- BP-07: Joint Sealants, Firestopping, Dampproofing & Waterproofing, and Air Barriers
- BP-08: Elevator
- BP-09: Plumbing
- BP-10: HVAC and Geothermal
- BP-11: Electrical/Low Voltage/Security/Fire Alarm/HVAC and Door Rough-ins/Pathways
- BP-12: Fire Suppression
- BP-16A: Interior & Exterior Framing, Sheathing, Gypsum, Blocking, and Finishing
- BP-16B: Ceilings

Pepper Construction requests competitive bids for the following BID DAY #2 packages (bid day 6/26/25):

- BP-01: Earthwork & Site Utilities
- BP-02A: Building and Site Concrete
- BP-13: Landscape and Site Furnishings
- BP-14: Playground Surfacing and Equipment
- BP-15: Bid package removed
- BP-17A: General Trades A (D/F/H supply & install)
- BP-17B: General Trades B (Accessories, Gym Equipment, Wall Protection)
- BP-18: Gym Flooring
- BP-19: Flooring
- BP-20: Painting, Wall Coverings, and Sealed Concrete
- BP-21: Millwork
- BP-22: Asphalt Paving
- BP-23: Window Treatments
- BP-24: Tiling
- BP-25: Operable Partitions
- BP-26: Bid package removed
- BP-27: Food Service Equipment

PROJECT BID MANUAL

The successful bidder for each bid package will enter into a Subcontract Agreement with Pepper Construction.

PREQUALIFICATION: Trade partners <u>must be prequalified</u> with Pepper Construction prior to award. Online Pepper Prequalification instructions are included in this project bid manual and can be found on our website here - https://www.pepperconstruction.com/prequalification Reach out to Caitlin Poe – com/prequalification. Reach out to Caitlin Poe – com/prequalification.

PRE-BID MEETING: A pre-bid meeting will be held for all prospective bidders on Wednesday, June 11, 2025, 10:00 AM ET at Bartholomew Consolidated School Corporation (BCSC) Administrative Building, 1200 Central Ave, Columbus, IN 47201. Pre-bid meeting attendance is not mandatory but is highly encouraged for all trade partners.

BIDS DUE for BID DAY #1: Sealed, hand-delivered bids are due no later than Tuesday, June 24, 2025, 2:00 PM ET at Bartholomew Consolidated School Corporation (BCSC) Administrative Building, 1200 Central Ave, Columbus, IN 47201. All bids must be in a sealed envelope labeled clearly with the project name, your company name, and bid package name & number. If you're submitting a bid for more than one bid package, each bid must be submitted separately in its own envelope and include the bid form, allowance form, alternates form, unit prices form, SOV, Form 96, and a copy of your 5% bid bond.

Combination Bids: Please turn in a Bid Form for <u>each bid package</u> as a stand-alone bid. If you plan to provide a discount for combining more than one bid package, please indicate that on the bid form.

BIDS DUE for BID DAY #2: Sealed, hand-delivered bids are due no later than Thursday, June 26, 2025, 2:00 PM ET at Bartholomew Consolidated School Corporation (BCSC) Administrative Building, 1200 Central Ave, Columbus, IN 47201. All bids must be in a sealed envelope labeled clearly with the project name, your company name, and bid package name & number. If you're submitting a bid for more than one bid package, each bid must be submitted separately in its own envelope and include the bid form, allowance form, alternates form, unit prices form, SOV, Form 96, and a copy of your 5% bid bond.

Combination Bids: Please turn in a Bid Form for <u>each bid package</u> as a stand-alone bid. If you plan to provide a discount for combining more than one bid package, please indicate that on the bid form.

PROJECT BID MANUAL

Bids received after 2:00 PM will <u>not</u> be opened. Please ensure that you have included all required forms (<u>bid form</u>, <u>allowance form</u>, <u>alternates form</u>, <u>unit prices form</u>, <u>SOV</u>, <u>Contractor's Bid for Public Work Form 96</u>) and your <u>5% bid bond</u>. The owner reserves the right to reject bids, and to waive informalities, irregularities, and errors in the bidding process to the extent permitted by law. This includes the right to amend the date and time for receipt of bids.

PLAN ROOM: Bid documents are available for electronic download - https://pepperconstruction.egnyte.com/fl/pxglBMyzUE **PASSWORD:** ie87SmhB9k2Z

QUESTIONS/RFIs: Please direct all questions/RFIs via email to Andrew VanderVinne - avandervinne@pepperconstruction.com no later than Monday, June 16, 2025, 2:00 PM ET

BID SECURITY: Bidders are required to include **5% bid security** or a **bid bond**. Please see Vol. 1 of the specifications for additional details.

PERFORMANCE/PAYMENT BOND: No performance/payment bond is required.

PUBLIC BID OPENING for BID DAY #1: A public bid opening will take place at Bartholomew Consolidated School Corporation (BCSC) Administrative Building, 1200 Central Ave, Columbus, IN 47201 on Tuesday, June 24, 2025, 2:00 PM ET. Bids will be opened and publicly read aloud. All interested parties are invited to attend. Bids received after 2:00 PM will not be accepted.

PUBLIC BID OPENING for BID DAY #2: A public bid opening will take place at Bartholomew Consolidated School Corporation (BCSC) Administrative Building, 1200 Central Ave, Columbus, IN 47201 on Thursday, June 26, 2025, 2:00 PM ET. Bids will be opened and publicly read aloud. All interested parties are invited to attend. Bids received after 2:00 PM will not be accepted.

PROJECT BID MANUAL

NOTICE TO BIDDERS

PROJECT: BCSC - New Elementary School #12 - Maple Grove

Tipton Lakes Blvd. Columbus, IN 47201

OWNER: Bartholomew Consolidated School Corporation (BCSC)

1200 Central Avenue Columbus, IN 47201

ARCHITECT: CSO Architects Höweler + Yoon Architecture

8831 Keystone Crossing 150 Lincoln Street Indianapolis, IN 46240 Boston, MA 02111

CONSTRUCTION

MANAGER: Pepper Construction

1850 W 15th Street Indianapolis, IN 46202

317.681.1000

RE:

Notice is hereby given, that proposals will be received on behalf of Bartholomew Consolidated School Corporation:

BY: Pepper Construction

1850 W 15th Street Indianapolis, IN 46202

FOR: Bartholomew Consolidated School Corporation (BCSC) - New Elementary School #12 Maple Grove

AT: Bartholomew Consolidated School Corporation

1200 Central Ave Columbus, IN 47201

Sealed, Hand-delivered or Mailed Bids

PROJECT BID MANUAL

Until: BID DAY #1 - Tuesday, June 24, 2025, 2:00 PM ET BID DAY #2 - Thursday, June 26, 2025, 2:00 PM ET

Bid documents consist of the following: Drawings Vol. 1 & Vol. 2 dated 5/30/2025, Specifications Vol. 1 - Vol. 3 dated 5/30/2025 and Project Bid Manual dated 6/5/2025. Additional information provided during the bid period via addenda will be incorporated into the "bid documents" and shall be acknowledged on the bid form.

Bid documents are available for electronic download: https://pepperconstruction.egnyte.com/fl/pxglBMyzUE PASSWORD: ie87SmhB9k2Z

<u>Bidders must submit their bid on the bid form provided in the bid documents and must include all required bid forms including Form 96 and 5% Bid Bond with their bids.</u>

By submission of bid, bidders acknowledge that they have carefully reviewed all the bid documents and have a complete scope of work. Bidders are to include all items described in the bid package descriptions, specifications, and plans without exclusion or exceptions.

Bidders who are not already prequalified must prequalify prior to the bid due date. Pepper Construction prequalification information is provided in the bid documents.

Prior to award, prime bidders shall submit a list of all vendors, suppliers, and subcontractors that the prime bidder intends to use on this project. Pepper Construction reserves the right to reject the prime bidder's vendors, suppliers, and/or subcontractors, and an acceptable substitute shall be provided. Pepper Construction will review potential impacts to the bids with the bidder prior to final approval.

The Owner reserves the right to accept or reject any bid and to waive any irregularities in bidding. The Base Bid may be held for a period not-to-exceed sixty **(60)** days before awarding Contracts. All Alternate Bids may be held for a period not-to-exceed sixty **(60)** days after signing Notice to Proceed.

END OF NOTICE TO BIDDERS

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

	Date (month, day, year):					
1.	Governmental Unit (Owner):					
2.	County:					
	Bidder (Firm):					
	Address:					
	City/State/ZIPcode:					
4.	Telephone Number:					
5.	Agent of Bidder (if applicable):					
P	ursuant to notices given, the undersigned offers to furnish labor and/or material necessary to complete					
the public	works project of					
	ental Unit) in accordance with plans and specifications prepared by					
	and dated for the sum of					
	\$					

The undersigned further agrees to furnish a bond or certified check with this bid for an amount specified in the notice of the letting. If alternative bids apply, the undersigned submits a proposal for each in accordance with the notice. Any addendums attached will be specifically referenced at the applicable page.

If additional units of material included in the contract are needed, the cost of units must be the same as that shown in the original contract if accepted by the governmental unit. If the bid is to be awarded on a unit basis, the itemization of the units shall be shown on a separate attachment.

The contractor and his subcontractors, if any, shall not discriminate against or intimidate any employee, or applicant for employment, to be employed in the performance of this contract, with respect to any matter directly or indirectly related to employment because of race, religion, color, sex, national origin or ancestry. Breach of this covenant may be regarded as a material breach of the contract.

CERTIFICATION OF USE OF UNITED STATES STEEL PRODUCTS (If applicable)

I, the undersigned bidder or agent as a contractor on a public works project, understand my statutory obligation to use steel products made in the United States (I.C. 5-16-8-2). I hereby certify that I and all subcontractors employed by me for this project will use U.S. steel products on this project if awarded. I understand that violations hereunder may result in forfeiture of contractual payments.

ACCEPTANCE

The above bid is accepted this			day of	,, subject to the				
followi	ng conditions:							
Contra	acting Authority Membe	ers:						
	(1	For projects of \$1Í (PART II 0,000 or more – IC	36-1-12-4)				
	Governmenta	al Unit:						
	Bidder (Firm)							
	Date (month,	day, year):						
Attach	These statements to additional pages for e			vith and as a part of his bid.				
		SECTION I EXF	PERIENCE QUEST	IONNAIRE				
1.	or the period of one (1) year prior to the							
	Contract Amount	Class of Work	Completion Date	Name and Address of Owner				
2.	What public works p	What public works projects are now in process of construction by your organization?						
	Contract Amount	Class of Work	Expected Completion Date	Name and Address of Owner				

H	lave you ever failed to complete any work awarded to you?	If so, where and why?
_		
_ L	ist references from private firms for which you have performed work.	
- -		
-		
	SECTION II PLAN AND EQUIPMENT QUESTIONNA	IRE
У	explain your plan or layout for performing proposed work. (Examples could in could begin work, complete the project, number of workers, etc. and any selieve would enable the governmental unit to consider your bid.)	
_		
_		
И	Please list the names and addresses of all subcontractors (i.e. persons or fire who have performed part of the work) that you have used on public works properly along with a brief description of the work done by each subcontractor.	ms outside your own firm ojects during the past five (5
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If you intend to sublet any portion of the work, state the name and address of each subcontractor, equipment to be used by the subcontractor, and whether you will require a bond. However, if you are unable to currently provide a listing, please understand a listing must be provided prior to contract approval. Until the completion of the proposed project, you are under a continuing obligation to immediately notify the governmental unit in the event that you subsequently determine that you will use a subcontractor on the proposed project.
What equipment do you have available to use for the proposed project? Any equipment to be used by subcontractors may also be required to be listed by the governmental unit.
Have you entered into contracts or received offers for all materials which substantiate the prices used in preparing your proposal? If not, please explain the rationale used which would corroborate the prices listed.

SECTION III CONTRACTOR'S FINANCIAL STATEMENT

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

SECTION IV CONTRACTOR'S NON - COLLUSION AFFIDAVIT

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

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

SECTION V OATH AND AFFIRMATION

CONTAINED IN THE FOREGOING	BID FOR PUBLIC W	ORKS ARE TRUE AND CORRECT.		
Dated at	this	day of	,	
	(Name of Organization)			
	Ву			
		(Title of Person Signing)		
	ACKNOWLE	ACKNOWLEDGEMENT		
STATE OF				
COUNTY OF) ss)			
Before me, a Notary Public, persona	ally appeared the above	/e-named	and	
swore that the statements contained	I in the foregoing docu	ument are true and correct.		
Subscribed and sworn to before me	this d	ay of,,	_·	

My Commission Expires:

County of Residence:

Notary Public

BID OF
(Contractor)
(Address)
FOR
PUBLIC WORKS PROJECTS
OF

Filed,
Action taken

BID PACKAGE DESCRIPTIONS



1.2 PROJECT SPECIFIC CLARIFICATIONS

- A. Each subcontractor will have 10 business days after receiving the subcontract to review, sign off, and return to Pepper. Failure to complete this process in the allotted time frame will result in the termination of this subcontract. At that time Pepper will begin interviewing the next low bidder for this bid package.
- B. All substitution requests must follow formal procedures in spec section 00 26 00. No deviation from this section will be accepted.
- C. Each subcontractor has the responsibility to immediately examine the contract documents for errors, inconsistencies, or omissions. Any such errors, inconsistencies or omissions shall immediately be brought to the attention of Pepper Construction Company.
- D. Subcontractor pricing is to include all work that is inferable from the drawings and specifications. All questions shall be submitted prior to bid day. Submission of bid is considered formal acceptance and no future change order will be issued for any gaps.
- E. Due to owner bid package review and approval timeline, all bids must be valid through August 22^{nd} , 2025 to allow time for contracts to be sent out.
- F. The Subcontractor is to include all labor, material, tools, equipment, supervision necessary to complete fully this scope of work for the BCSC New Elementary School #12 project.
- G. Subcontractor is required to attend and participate in site specific safety orientation, daily field huddle meetings, weekly subcontractor coordination meetings, preinstall meeting, building enclosure coordination (as applicable), and three pull plan scheduling meetings.
- H. Contractor shall provide a non-working foreman for all work being performed for this scope of work.
- I. The Schedule of Values submitted as part of this bid must break out all allowances as separate line items.
- J. Alternates if accepted would be added or deducted from the subcontract at a later date.
- K. All pay application requests must include an updated change order log (standard form will be provided by Pepper Construction). Failure to record all costs on the change order log at time of submission by subcontractor will be accepted as formal notification to Pepper Construction, Owner, and Design Team all items have been accounted. No backdated tickets or change orders will be accepted.
- L. All pay application requests must include updated as-builts for applicable trades.
- M. Provide and deliver to site required spare parts for owner's attic stock. Ensure all items are counted and a transmittal is provided with each delivery. Coordinate with Pepper. Final payment will not be provided until all items are turned over.

- N. The project is sales tax exempt. All subcontractors should exclude sales tax in their base bid and from any future change orders. Sales tax exemption information can be found in 00 72 16 Tax Exemption Certificate.
- O. Labor rate escalation is included with subcontractor's base bid for the duration of the project as determined by the project schedule. The subcontractor must provide current labor rates at bid time that do not include any mark up or overhead. For duration of project updated labor rates for any additional or deduction of work must be provided to Pepper to keep on file.
- P. All change orders must be presented utilizing the provided form (00 72 18 Change Order Request). All change orders presented that do not utilize this form will be rejected and sent back to the subcontractor to correct.
- Q. All costs (addition or deduction) related to ASIs or RFIs must be formally submitted within 10 business days of formal notification to subcontractors sent out by Pepper Construction. Failure to submit associated costs within this time frame will be considered legal confirmation that there are no cost impact to the subcontractor.
- R. Subcontractor is required to submit detailed updated 6-week lookahead schedules weekly starting 6-weeks from first on site date through the duration of subcontractor's scope.
- S. Site hours of operation will be 7:00am to 5:00pm, Monday through Friday. Subcontractors required to work weekends to maintain project schedule or formally requested to perform work on the weekends or off hours will be handled on an individual basis.
- T. Subcontract includes daylight work hours and 2nd shift as required to maintain project schedule. Each subcontractor will provide resources to properly fulfill their schedule requirements. Any premium time needed to maintain their commitment will be at the subcontractor's expense.
- U. Include multiple mobilizations and demobilizations to the jobsite as required to meet the provided project schedule included in the bid package.
- V. The subcontractor will follow the project schedule timeline for execution of submittals. Failure to complete submittals per the project schedule will be grounds for withholding all payments.
- W. Subcontractor to review and confirm with vendors and manufacturers during supply of submittals that no products being submitted on are being discontinued within the next year. Additionally, subcontractor to confirm and provide on submittal current lead times.
- X. Subcontractors shall provide all required insurance including General Liability (GL).
- Y. Cyber and pollution insurance per project documents must be provided by the subcontractor with no exceptions taken. No waivers will be accepted.
- Z. The subcontractor acknowledges the Site Logistics plan included in bidding documents and will utilize this plan as a reference for what is intended and expected from Pepper Construction. The subcontractor is given authority to make minor adjustments, with prior approval from Pepper superintendent to the site logistics plan where means of efficiency for the project can be achieved. Subcontractor acknowledges that if the plan is adjusted, and the result of the adjustment increases the scope of work for either Pepper or any other subcontractor onsite, subcontractor is subject to a back charge as may be required.

- AA. All lifts shall maintain a diaper for duration of being onsite and be free of any fasteners in tires. Wheels shall be non-marking.
- BB. Upon completion of drywall hanging on each floor lifts will be required to be removed from that floor for the duration of the project. From that point moving forward for remainder of project subcontractors must only utilize ladders and scaffold systems.
- CC. Include any task specific temporary lighting required for this scope of work based on schedule and jobsite hours.
- DD. Subcontractor includes all traffic control as necessary pertaining to subcontractors' scope of work.
- EE. The subcontractor is required to complete all layout and engineering as required to complete the scope. Layouts to be conducted by use of total station or equivalent system. Pepper to provide control points inside the building one location per each wing at each level. These points will be set once steel columns are locked in, and decking has been installed. For site work including but not limited to site grading and setting of building foundations project documents provide existing benchmarks that subcontractor(s) shall confirm acceptance of and then utilize. Failure to follow through with use of these points will result in any rework or amendments being covered by associated subcontractor.
- FF. Concrete washouts are to be provided and maintained by each subcontractor performing work that requires one of these units. Failure to maintain the unit, leaks from unit, or damage will be the subcontractor's sole responsibility to correct. Failure to complete within 24 hours will result in formal acceptance of Pepper correcting the issue and all cost associated with corrective actions will be sent as a formal back charge to the subcontractor. (Placement of washouts must be approved by Pepper site superintendent.)
- GG. Be present for all loading and unload, including equipment, dunnage, and labor, off-load all materials associated with this scope of work. Gates must be closed and re-secure after each vehicle entering and leaving the site. Failure to adhere to this requirement may result in back charges at Pepper's discretion.
- HH. The subcontractor is responsible for reviewing delivery logistics and sizing of trucks for deliveries. Deliveries that occur outside of project designated hours unless coordinated ahead of time will be refused until project is next open.
- II. Limited laydown space will be available on site, however material not being used in a reasonable timeframe, as determined by Pepper superintendent, may not be stored on site. Laydown and deliveries must be coordinated with Pepper superintendent. Delivery board will be posted in Pepper trailer to coordinate and provide consistent clarification.
- JJ. Parking and laydown locations will be adjusted based on phase of sitework and utility install. Pepper will provide reasonable notice to shifting of parking and laydown; subcontractor has included necessary means to adjust accordingly.
- KK. Project parking will be on site in designated areas.
- LL. No laydown, parking, or driving over geothermal well fields and other utilities until proper coverage has been installed.

- MM. All subcontractor employees and tiered subcontractors performing work onsite will be required to go through a site-specific safety orientation prior to gaining access to the site. This orientation will be held 5 days a week Monday through Friday through the duration of the project. Orientation will begin at 7:30am and last no longer than 1 hour. Individuals will only be required to complete orientation once during the duration of the project. At the completion of the training and background check individuals will receive a numbered site-specific decal that must be worn on their hard hat.
- NN. All employees working on the project site must complete a background check per BCSC Code D325. Full code is available online at:
 - https://go.boarddocs.com/in/bcsc/Board.nsf/goto?open&id=DAXHKL48E344
- OO. All personnel must bring a scannable ID to orientation and pass the "Safe Visitor" background check.
- PP. Tobacco (smoking and or vape and chewing tobacco) are not permitted on the Property. Subcontractor employees caught in violation will be removed from the site immediately for the day on the first offence and on the second offence removed from the project permanently for the remainder of the project.
- QQ. The subcontractor has reviewed and agrees to safety requirements in the safety handbook and upon signing off the subcontract are required to submit a project specific safety plan within 15 business days of signed contract.
- RR. Preinstallation Safety Meeting: Pepper will lead a safety preinstallation meeting with each subcontractor prior to starting work. The subcontractor's project manager and on site foreman/superintendent along with necessary tiered subcontractors are required to attend and participate in this meeting. Safety preinstallation meetings last approximately an hour or less depending on the scope of work.
- SS. All operators must be certified. Provide all certifications for on-site operators prior to individual arriving on site.
- TT. Subcontractor to provide all dust control measures (i.e., excavation activities, demo, drywall finishing, drilling, etc.) related to this Scope of Work.
- UU. Each subcontractor is responsible for portable units (trash cans, tippy dumpsters, etc.) for waste and transporting of these items to project provided trash and recycle dumpsters. (Pepper policy is nothing hits the floor)
- VV. The subcontractor is required to locate all utilities, public and private, prior to excavation. Subcontractor to reference Subcontractor Safety Handbook for specific requirements pertaining to Underground Utilities. (Excavation Permit, UUDP Handoff Meeting)
- WW. The subcontractor has reviewed all quality requirements, signed off on the quality agreement, and submitted a project specific quality plan. All these items must be submitted and approved prior to approval of the first pay application.

- XX. All quality items must be completed or responded to within 5 business days. (Must have photo documentation of repair/issue) Failure to complete this process in the designated time frame will result in any current payments being withheld until completed.
- YY. Care will be taken by each subcontractor to provide exemplary workmanship. Work that is sloppy, and work that is not installed in a neat, workmanlike manner, will be rejected by Pepper, and will be re-worked at the subcontractor's expense.
- ZZ. Building Enclosure Coordination Meeting: Pepper Construction leads the building enclosure coordination meeting in an effort compile the expertise of all parties with the goal of reducing field conflicts and warranty claims due to material compatibility, incomplete details, and construction sequencing. This meeting lasts approximately 2 days 16 hours (including lunch) and the Architect is invited to attend. Trade Partners required to attend this meeting include trades with the following scopes of work: CFMF & exterior sheathing, air-vapor barrier, waterproofing, exterior insulation, roofing, curtainwall & windows, and all building skin trades (masonry, EIFS, metal panels, tile, etc.). Pepper's Project Manager will follow up with trades and design team to ensure comments are incorporated into contract documents.
- AAA. Preinstallation Quality Meeting: Pepper will lead a quality preinstallation meeting with each Trade Partner prior to starting work. The Trade Partner Project Manager and Foreman (on site) is required to attend this meeting. During this meeting, the team reviews the scope of work, submittals, plans, specifications, manufacturer's requirements, Trade Partner Quality Plan, and lessons learned as applicable. Note that the preinstallation meeting is by scope, not necessarily trade partner (some trade partners will have multiple preinstallation meetings). Preinstallation meetings last approximately one to three hours depending on the complexity of the scope of work. Subcontractors may be required to attend additional preinstallation meetings with affected/associated scopes as outlined in the project specifications.
- BBB. Trade Partners that repeat issues or otherwise demonstrate a lack of expertise or understanding, will be required to participate in any training deemed necessary by Pepper's Director of Quality Management to bring the Trade Partner expertise to a level that will enable them to comply.
- CCC. Provide verification/acceptance of existing conditions prior to work starting. Starting work is understood as acceptance of existing conditions/substrate.
- DDD. It will be this subcontractors' responsibility to protect the existing paved areas, sidewalks, curbs, landscaped areas to remain from damage. Any damage to the roads caused by this subcontractor's scope of work will need to be repaired at their expense. If damage is not repaired, then Pepper Construction will make necessary repairs and will back charge. (Subcontractors responsibility to clean all roadways/sidewalks/paved areas associated with their work as daily or as directed by Pepper superintendent.)
- EEE. Each subcontractor is responsible for their material and equipment. Any damages or loss of material or equipment will not be reimbursed by the project. If another subcontractor causes damage or loss a formal ticket must be issued and signed by both subcontractors. Upon completion of this step Pepper will issue formal change orders to associated subcontractor(s).
- FFF. Failure to protect staged materials and in place work following project document requirements and this scope sheet will result in subcontractors' responsibility to replace at no cost to the project.

- GGG. All materials are to be elevated on dunnage and covered during storage. Includes maintenance of both dunnage and covers. Any additional storage measures required by manufacturers, suppliers, or project documents, are included in this subcontract.
- HHH. BIM PCCI Trade Coordination Protocol Document has been included in the project manual and necessary provisions and cost are to be covered by subcontractor.
- III. Subcontractor superintendents/lead foreman and project managers are required to have a paid subscription to Autodesk Construction Cloud (ACC) for the duration of the project. All current drawings, specifications, RFIs, submittals, and reports will be coordinated through the ACC program. If the subcontractor does not comply a deduct of \$5,000.00 will be assessed to the subcontractor in the form of a formal change order. The subcontractor must have this in place prior to the first pay application being approved in the form of a receipt.
- JJJ. Superintendents/lead foreman are required to have an IPad or equivalent tablet to participate in punch lists and as-builts onsite through ACC. If the subcontractor does not comply a deduct of \$2,500.00 will be assessed to the subcontractor in the form of a formal change order. No exception or deviations will be accepted.
- KKK. Provide all testing required per the project specifications related to this scope of work unless explicitly noted as owner testing.
- LLL. Coordinate with Pepper and Owners testing agency to set up Owner testing.
- MMM. The above and following scope of work is intended to be general in nature. The intention is to have the successful subcontractor perform all related work shown on the contract documents other than those items specifically indicated below to be excluded. Should the documents disagree in themselves, or with each other, the scope of work shall be based on the most expensive combination of quality and quantity of work indicated.

1.7 CONSTRUCTION ALTERNATES

A. Alternate #1: Site Concrete

- 1. Base Bid: Site concrete included with BP-02A scope of work.
- 2. Alternate: Deductive alternate for BP-02A to remove all site concrete from BP-02A scope of work. Add alternate for BP-22 to pick up all site concrete in BP-22 scope of work.
 - a. 03 30 01 Site Cast-In-Place Concrete
 - 1) Provide all formwork, hardware, and formwork accessories.
 - 2) Provide and place all concrete reinforcing to the size and spacing as indicated.
 - 3) Subcontractor to include all concrete saw cutting as required per project drawings and specifications.
 - 4) It will be subcontractors' responsibility to sign off (either through formal email or physical paperwork) to Pepper on the subgrade prior to placement of stone.
 - 5) Include joint sealants for this scope of work.
 - 6) Included in this scope of work is all site concrete shown on L series drawings. S-series concrete is by BP-02A subcontractor.

B. Alternate #2: Joint Sealants, Acoustical Sealants, Firestopping

- 1. Base Bid: Joint Sealants, Acoustical Sealants, Firestopping by BP-07 scope of work.
- 2. Alternate: MEP bid packages to pick up associated joint sealants, acoustical sealants, and firestopping at their respective penetrations. BP-02A to pick up joint sealants at site concrete. Millwork and lab casework contractors to pick up joint sealants. Deductive alternate for BP-07 to remove MEP penetrations, site concrete, and millwork joint sealants, acoustical sealants, and firestopping.

PART 1 - GENERAL

1.1 PROJECT DRAWINGS & SPECIFICATION

A. Contract to include the following drawings for reference.

Bartholomew Consolidated School Corporation – New Elementary #12 – Maple Grove

- 1. For a full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
- 2. Scope Specific Specifications:

1)	00	Procurement and Contracting Requirements
2)	01	General Requirements
3)	31 10 00	Site Clearing
4)	31 20 00	Earth Moving
5)	31 20 10	Earthwork – Building
6)	31 25 00	Temporary Erosion and Sediment Control
7)	31 32 19	Geotextiles
8)	32 15 41	Crushed Granite Surfacing
9)	32 91 13	Topsoil Preparation
10)	33 05 00	Common Work Results for Utilities
11)	33 10 00	Water Distribution
12)	33 30 00	Sanitary Sewerage
13)	33 41 00	Storm Utility Drainage Piping
14)	33 46 00	Subdrainage
15)	33 46 05	Playground Subdrainage

1.2 PROJECT SPECIFIC CLARIFICATIONS

A. See attached Exhibit B.1

- A. Soils generated from excavation may be reused as fill and/or topsoil if they meet the project document requirements for fill and/or topsoil at the time of use, are properly stored, and are tested by third party testing agency. The subcontractor will be responsible for all excess soil generated from the site to be removed immediately.
- B. Include with submittal package formal submittal of CAD file used for earthwork equipment for grading extents.
- C. All additional backfill material will come from imported soil to be provided by this subcontractor.
- D. Coordination of all testing required by specifications to be conducted with third party testing agency and to be set up a minimum of 24 hours prior to testing occurring.

- E. Subcontractor to include all cost and required measures to remove existing soils from site and take to clean fill site. No additional funding will be procured for the removal of these items from the site.
- F. If subcontractor does not maintain roads and construction entrances to avoid track out, it will be at the sole cost of the subcontractor to bring in a street sweeping subcontractor to complete required clean up and cover any fees from governing bodies.
- G. Subcontractor to coordinate, obtain, and pay for all required permits associated with temporary lane and road closures outside of those indicated in project logistics plans.
- H. Subcontractor to coordinate, obtain, and pay for all required permits, tap fees, curb cut fees, and all other associated permitting fees for work associated with this scope including the site utilities.
- I. All necessary dewatering and/or temporary drainage work required for the complete execution of this scope of Work. Pumping and dewatering as required for this scope of Work. Temporary grading as required to maintain positive drainage. Subcontractor to include all costs for pumping and dewatering that could be reasonably anticipated from usual weather conditions in the area based on historical information and the time of anticipated construction. Prior to site excavation occurring subcontractor shall provide a submittal for project team review and approval of how subcontractor intends to complete dewatering process.
- J. All set up of erosion and sediment controls are included in this scope and will be completed prior to the start of project mobilization and maintained through project duration (including maintenance of SWPPP inspections). Removal of SWPPP controls is by BP-13 subcontractor.
- K. Ensure all exposed rebar is coated to ensure rusting does not occur.
- L. Include all trace wire supply and installation for underground utilities per specifications and standards.
- M. All required sleeves, cores, box out and saw cutting will be indicated on subcontractor's shop drawings for Engineer's approval prior to placement or cutting holes in castings or existing structures.
- N. Subcontractor has included all necessary costs and provisions for this scope of work to complete the Pepper Construction BIM Execution Plan.
- O. Subcontractors will be required to provide monthly As-Built information updates coinciding with installation. These shall be included with pay applications (pencil copies), if not provided pay applications will be rejected until current As-Builts received.
- P. Subcontractor to provide Peppers' onsite supervision written notice per specifications of any scope items called out as providing a disruption to the existing facility or surrounding facilities. Add two additional workdays to all notices (i.e., if spec calls for a notice of a 3 days, then written notice to Pepper must be received 5 days prior to scope occurring).
- Q. Tree protection fencing erection and maintenance through the duration of the project is included with this subcontract (including maintenance of SWPPP inspections). Removal is by BP-13 subcontractor.

- R. Provide temporary protection/barriers around any holes/excavations to prevent falls were fencing it not already provided per the site logistics plan. This should include any handrails and temporary fencing based upon the size of openings. Plans to be coordinated with the Construction Manager before starting. Include removal of temporary protection once work is completed.
- S. Subcontractors shall provide only certified flaggers for work occurring along or in public roads.
- T. Should subcontractor encounter an existing MEP line underground that has not been disconnected and/or abandoned, subcontractor to report findings to Pepper construction, and disconnection work will be completed by BP-11 Electrical subcontractor, BP-10 HVAC and Geothermal subcontractor, and BP-09 Plumbing subcontractor. The removal of the underground electrical piping will still be included in this subcontractor's scope of work.
- U. Site clearing and demo as noted in the project documents including woodland areas, grass/landscape/lawn/trash areas, asphalt, concrete curb, and misc. items is included in this scope of work. Remove electrical line, light pole, and concrete base (ref keynote 6/C101) after power disconnected and made-safe for removal by others. Include haul-off, dump fees, and legal disposal of all materials removed from site.
- V. Subcontractor includes saw cutting at all edges of the site demolition scope. Subcontractor to leave a clean straight line at all existing asphalt and concrete surfaces to remain. Subcontractor to protect edge surfaces as required to maintain the integrity of the edges to remain.
- W. Grading for this scope of work is to include removal of existing soils and rough grading to subgrade. Subgrade set by earthwork subcontractor no greater than -1". Excavation for foundations and foundation backfill to subgrade is by BP-02A Building and Site Concrete subcontractor. Topsoil/final grade is by BP-13 Landscape and Site Furnishings subcontractor.
- X. It will be subcontractor's responsibility to sign off on subgrade with BP-02A Building and Site Concrete subcontractor prior to placement of stone. Handoff of subgrade from Earthwork subcontractor to concrete structure subcontractor to include walk and signoff by both parties. Earthwork subcontractor to ensure subgrade is set no greater than -1" from project documents. Signoff must be in the form of an email or physical paperwork which must include or be submitted to Pepper (CC on an email is acceptable).
- Y. Locate, identify, and protect utilities and structures to remain from damage. Protect all site features to remain, including but not limited to benchmarks, utilities, sidewalks, paving, curbs, landscaping, and vehicular traffic.
- Z. In areas where vehicular traffic including equipment has compacted soil, scarify to depth of three inches.
- AA. Any soil placement must meet compaction and weather requirements outlined in the drawings and specifications.
- BB. Any modifications to fencing deemed necessary are to be reviewed with Pepper Construction prior to moving the fence. Any additional fencing required to barricade off an excavation posing a hazard all cost is accounted for and included in this contract.

- CC. General fill and backfill at foundation wall is included in this scope of work. Excavation for foundations and foundations backfill to subgrade is by BP-02A Building and Site Concrete subcontractor.
- DD. Fill to correct over excavation must meet the requirements outlined in the drawings and specifications and is the responsibility of this subcontractor. All debris, water, unsatisfactory soil materials, obstructions, and deleterious materials must be removed prior to installing any fill.
- EE. It is this subcontractor's responsibility to verify survey benchmarks and intended elevations for the work are as indicated.
- FF. All excavation protection measures to meet governing body (including OSHA) requirements must be in place for the duration of this scope of work, including but not limited to sloping, benching, and additional excavation support systems. All measures required to meet safety standards are the responsibility of BP-01 Earthwork subcontractor. Refer to drawings and site logistics plan for shoring installation.
- GG. Notify Pepper of any unexpected subsurface conditions immediately and discontinue affected work in area until notified to resume work.
- HH. All excavation work must follow Pepper UUDP plan procedures.
- II. Protect excavation as outlined in the drawings and specifications including but not limited to diversion of surface flow and water discharge, maintenance of soil stability, maintenance of subgrade moisture level, freezing, and any standing water.
- JJ. Backfill according to requirements outlined in the drawings and specifications. Ensure not to fill over porous, wet, frozen, or spongey subgrades. Maintain optimal moisture content of fill material for correct compaction.
- KK. Proof-rolled and verified subgrade at building pad.
- LL. Compacted subgrade under asphalt paving, site concrete, and playground area.
- MM. Compacted granular drainage fill under building slab-on-grade placed and rough-graded to within +/- 1" of proposed elevation (ref detail 1/S401). Re-dress and fine grading of granular base, vapor barrier, and concrete slab-on-grade to be by others.
- NN. Compacted stone under playground surfacing placed and rough-graded to within +/- 1" of proposed elevation (ref details 1,3/L602). Re-dress and fine grading of stone base prior to installation of playground surfacing to be by others. Include geotextile fabric below stone base. Geotextile fabric between stone base and surfacing to be by others.
- OO. Distribute topsoil across site at lawn and planting areas and rough grade to within +/- 1" of final topsoil grade. Topsoil amendments and testing to be by others. Fine grading of topsoil to be by others.
- PP. Follow fill types called out in drawings and specifications based on type of utility in trench.
- QQ. Subdrainage, damp proofing, and waterproofing, must be inspected prior to fill install. Proof of passing inspection must be provided to Pepper via email or physical copy. Coordinate with BP-

- 07 Joint Sealants, Firestopping, Dampproofing & Waterproofing, and Air Barriers subcontractor for damp proofing and waterproofing at foundation walls inspections.
- RR. Existing features that contribute to erosion resistance should be maintained to the greatest extent possible that the construction limits and project allow.
- SS. Sediment control structures that remain as permanent structures are to be cleaned at the end of the project.
- TT. Subcontractor to coordinate drainage piping with BP-02A Building and Site Concrete subcontractor. Furnishing and install of drainage piping is to be included in this scope of work.
- UU. This scope of work includes furnishing and installing all subdrainage, including but not limited to foundation wall subdrainage, perimeter drains, retaining wall drains, etc.
- VV. Furnish and coordinate any required sleeves for MEP's installed by BP-01 Earthwork subcontractor with BP-02A Building and Site Concrete subcontractor.
- WW. All new utility and associated equipment/accessories must follow Pepper UUDPP documentation requirements.
- XX. Perform work for all site utilities (except site electrical and sanitary) and terminating inside the building footprint via stub up 1' above finish floor or 1' past finish face of interior wall with blind flange according to location and type of entry shown on civil and plumbing plans. This shall include but not limited to domestic and fire lines.
- YY. Fire and domestic water piping and appurtenances including vault, meters, PIV, FDC, hydrants, valves, and valve boxes (ref C801). Provide connection to existing waterline per C501.
- ZZ. Sanitary sewer piping and appurtenances including clean-outs, grease trap, sample box, and testing (ref C802). Provide connection to existing sanitary line including potholing per C501.
- AAA. Extend sanitary sewer and storm to within 5' of building footprint with blind flange for continuation by others. Include all exterior clean-outs. Pipe sleeves and extension of sanitary sewer into building footprint to be by others.
- BBB. Storm piping and appurtenances including structures, Aqua-Swirl XCelerator units, and underdrains (ref C803 and C804). Provide piping turn-ups at downspout connections including cast iron downspout shoes (ref detail 414/C800).
- CCC. Includes all allocations to tie new site utilities into existing piping.
- DDD. Group piping with other site piping work whenever practical.
- EEE. Provide all field engineering assuring that grades during installation are being achieved.
- FFF. Provide all excavation, bedding, backfill, pipe, fittings, and accessories.
- GGG. Provide all sanitary sewer structures complete with castings, lids, steps, and accessories including water quality units.

- HHH. Coordinate with associated governing body for all necessary inspections and connections to city system for each site utility.
- III. Includes all allocations to tie system into storm sewer system.
- JJJ. Includes all allocations to tie new site utilities into existing structures and piping.
- KKK. Provide all storm sewer structures complete with castings, lids, steps, and accessories including water quality units.
- LLL. Provide all subsurface drains, excavation, bedding, backfill, pipe, fittings, connections to inlet structures, and accessories.
- MMM. Subcontractor includes all dust control measures while on site.
- NNN. Subcontract includes installation and maintenance of two construction entrances. Maintenance is included for the duration of the project along with removal and re-grading just prior to asphalt installation in these two locations.
- OOO. Refer to logistics plan for locations where temporary stone must be furnished, installed, maintained, and removed around perimeter of building through precast panel installation as part of this subcontract. Refer to logistics plan for locations where stone must be furnished, installed, and maintained for construction roads and parking which will later be re-graded as part of this subcontract, prior to final surfacing by others.
- PPP. Soil stabilization at building pad is included in this scope of work.

1.4 EXCLUSIONS

- A. The following items have been specifically excluded from this bid package:
 - 1. Payment and performance bond.
 - 2. Full time, non-working safety professional.
 - 3. Subcontractor to not include detailed excavation or backfill for foundation footings, elevator pits, interior footings, site electrical trenching, and interior building MEPs.
 - 4. Site concrete
 - 5. Aggregate base under site concrete
 - 6. Asphalt paving
 - 7. Aggregate base under asphalt paving
 - 8. Geothermal
 - 9. Bollards
 - 10. Barrier gate
 - 11. Gas service and meter
 - 12. Electrical underground service or associated trenching and duct bank
 - 13. Telecom underground service or associated trenching or directional bore for service connection

1.5 ALLOWANCES

All allowances shall only be approved for use or deduction from subcontract by Pepper Construction through written notice. At the end or anytime at Pepper Constructions discretion any and all unused allowances can be deducted from the subcontract through a formal change order.

- A. Composite cleaning crew: All subcontractors provide a laborer, on a weekly basis, to compile a composite crew that will be utilized for construction cleaning at the sole direction of Peppers' superintendent. Subcontractors will only be required to provide an individual only during the time the subcontractor or tiered subcontractors are performing work onsite. This shall be figured at 8 hours per week. Value \$______
- B. Include allowance for stone maintenance of egress points into site, adding stone as directed by Pepper Construction above and beyond provisions set forth by project documents and scope. Value \$25,000.00
- C. Removal or relocation of unknown existing utilities or obstructions encountered: \$50,000
- D. Over-excavation of unsuitable soils encountered and replacement with structural fill: \$30,000
- E. Dust control measures above and beyond: \$30,000

1.6 DESIGN ALTERNATES

- 1. Alternate #1: Site Aggregate Path Alternate.
- 2. Alternate #2: Playground Surfacing Alternate.
- 3. Alternate #3: Telescoping Stands and Retractable Audience Seating Alternate.
- 4. Alternate #4: Motor Operated Roller Shades Alternate.
- 5. Alternate #5: Area Rugs Alternate.

1.7 CONSTRUCTION ALTERNATES

- 1. Alternate #1: Site Concrete
- 2. Alternate #2: Joint Sealants, Acoustical Sealants, Firestopping

1.8 UNIT PRICES

- A. Current Labor Rates (do not include overhead and profit).
- B. Current rate for triaxial load of material to dump at clean waste facility.
- C. Current rate for triaxial load of material delivered to site:
 - 1. Sand
 - 2. Topsoil
 - 3. Stone 53s
 - 4. Stone -56s
 - 5. Stone #2s

D. Over-excavation of unsuitable soils encountered and replacement with structural fill. Include removal/disposal of unsuitable material and import of structural fill material. \$/CY

1.9 BREAKOUTS

- A. Demo
- B. Earthwork
- C. SWPPP
- D. Fire & Domestic Water
- E. Sanitary Sewer
- F. Storm Sewer & Drainage
- G. Allowances

PRODUCTS (Not Used)

PART 2 - EXECUTION (Not Used)

EXHIBIT B – Bid Package 02A – BUILDING & SITE CONCRETE

PART 1 - GENERAL

1.1 PROJECT DRAWINGS & SPECIFICATION

A. Contract to include the following drawings for reference.

Department of Administration, Public Works – Indiana State Archives Project No. 49020034-22-009-D1

- 1. For a full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
- 2. Scope Specific Specifications:
 - 1) 00 Procurement and Contracting Requirements
 - 2) 01 General Requirements
 - 3) 03 30 00 Cast-In-Place Concrete
 - 4) 03 30 01 Site Cast-In-Place Concrete
 - 5) 03 35 00 Concrete Surface Treatment
 - 6) 03 54 16 Hydraulic Cement Underlayment
 - 7) 07 21 00 Thermal Insulation (Partial)
 - 8) 26 05 00 Common Work Results for Electrical (Partial)
 - 9) 26 05 44 Sleeves and Sleeve Seals for Electrical Raceways and Cabling (Partial)
 - 10) 32 05 16 Aggregate Pavements (Partial)
 - 11) 32 11 23 Granular Base (Partial)
 - 12) 32 13 13 Concrete Paving
 - 13) 32 17 23 Paving Marking (Partial)

1.2 PROJECT SPECIFIC CLARIFICATIONS

A. See Attached Exhibit B.1.

- A. The above and following scope of work is intended to be general in nature. The intention is to have the successful subcontractor perform all related work shown on the contract documents other than those items specifically indicated below to be excluded. Should the documents disagree in themselves, or with each other, the scope of work shall be based on the most expensive combination of quality and quantity of work indicated.
- B. Subcontractor to provide 2 scaffold stair systems to access each level and each level of the roof through duration of concrete subcontractor is onsite. Scaffold systems must be made available to other trades during this duration.
- C. The concrete subcontractor will be responsible for temporary heat and all-weather protection to meet the project schedule for this scope of work (including but not limited to temporary indirect heaters (no electrical hook up available), fuel, concrete blankets, temp enclosures, and etc.). No additional funds will be allocated after bid time.

- D. Subcontract to include all concrete work shown on the S-series drawings, including but not limited to: building foundations, building superstructure, equipment yard, foundations, walls, slab on grade, housekeeping pads, etc.
- E. Coordinate flowable fill testing with Pepper for Owner testing setup.
- F. Complete grouting of elevator sills after elevator contractor has set sills at doors. Include separate mobilizations for each elevator.
- G. Subcontractors to supply, install/modify, and remove temporary protection either through barricades or covers around all excavations related to concrete scope.
- H. Furnish and install all required vapor barrier(s) as defined by the project documents.
- I. Provide all formwork, hardware, and formwork accessories.
- J. Provide and place all concrete reinforcing to the size and spacing as indicated.
- K. Subcontractor to include all concrete saw cutting as required per project drawings and specifications.
- L. Include rubbing/patching of concrete as required for acceptable finish at all exposed concrete, and waterproofing surfaces.
- M. Subcontractor to furnish and install water stops at all locations shown embedded in concrete.
- N. Subcontractor provides all required provisions including but not limited to labor, materials, and equipment to install project required mock-ups.
- O. Work with Pepper construction to set up preconstruction meeting with design team prior to mobilization. Ensure all parties will be attending in person.
- P. Subcontractor to confirm prior to bid day that all durations provided in the project schedule will allow for ample time to complete installation.
- Q. All interior slabs are to be cured utilizing Ultra Cure (Wet Curing) blanket system. Subcontractor to include all cost to install, maintain, and removal.
- R. Self-leveling used for floor systems will be supplied and installed by flooring subcontractor bid packages. The concrete subcontractor will be held responsible for any major floor prep cost related to the finish floor flatness of the slabs.
- S. Include any integrated stair treads/risers.
- T. Include extra slab curing additives in the gym area in order to install wood flooring per the construction schedule.
- U. Include all concrete curbs associated with the kitchen equipment (coolers, walk-in freezers, etc.)
- V. Pepper will conduct a BIM scan of each phased install of reinforcement systems prior to concrete placement. These models will be turned over to ownership as part of As-Builts.

- W. Subcontractor to layout and install precast embeds. Embeds will be provided by Precast subcontractor.
- X. Layout and install all anchor bolts. Column anchor bolt templates to be provided by steel subcontractor for conformity.
- Y. Subcontractor to include installation of all anchor bolts for steel columns. Both anchor bolts and base plates will be provided by Steel Subcontractor (others), but it will be this subcontractor's responsibility to install as required.
- Z. Subcontractor to include grouting of all base plates as required.
- A. The subcontractor is responsible for all costs resulting from damage to MEP subcontractors' sleeves, embeds, grounding/lightening protection, and etc. due to concrete installation.
- AA. Subcontractor to provide and install all plumbing interior and exterior housekeeping pads, support pads, and curbs per contract documents. Finalized sizing to be provided through shop drawings from plumbing subcontractor. Layout to be performed by concrete subcontractor. Any additional pads or curbs not identified prior to bidding will be picked up by Plumbing subcontractor.
- BB. Sleeves will be provided and installed by the plumbing subcontractor.
- CC. Plumbing subcontractor to supply and install anchor-bolt(s) into pads.
- DD. The plumbing subcontractor will supply and install floor drains, cleanouts, and trench drains prior to concrete placement. Concrete subcontractor to finish and slope slabs to drain following project requirements.
- EE. Subcontractor to provide and install all HVAC interior and exterior housekeeping pads, support pads, and curbs per contract documents. Finalized sizing to be provided through shop drawings from HVAC subcontractor. Layout to be performed by concrete subcontractor. Any additional pads or curbs not identified prior to bidding will be picked up by HVAC subcontractor.
- FF. Subcontractor to assist with coordination of penetrations through concrete systems to ensure they are not in conflict with reinforcing. HVAC subcontractor will provide shop drawings through BIM coordination process to be overlayed with concrete subcontractor's shops.
- GG. Sleeves/boxouts will be provided and installed by the HVAC subcontractor.
- HH. HVAC subcontractor to supply and install anchor-bolt(s) into pads.
- II. Subcontractor to provide and install all Electrical interior and exterior housekeeping pads, support pads, and curbs per contract documents. Finalized sizing to be provided through shop drawings from electrical subcontractor. Layout to be performed by concrete subcontractor. Any additional pads or curbs not identified prior to bidding will be picked up by an electrical subcontractor.
- JJ. Subcontractor to assist with coordination of penetrations through concrete systems to ensure they are not in conflict with reinforcing. Electrical subcontractor will provide shop drawings through BIM coordination process to be overlayed with concrete subcontractor's shops. JJ
- KK. Sleeves will be provided and installed by the electrical subcontractor.

- LL. Electrical subcontractor to supply and install anchor-bolt(s) into pads.
- MM. Subcontractor to include all costs to furnish and install stone subgrade for concrete areas included in the package.
- NN. It will be subcontractors' responsibility to sign off (either through formal email or physical paperwork) to Pepper on the subgrade prior to placement of stone.
- OO. Concrete subcontractor shall not install stone until electrical and plumbing subcontractors have installed their underground.
- PP. Handoff of subgrade from earthwork subcontractor to concrete structure subcontractor to include walk and signoff by both parties prior to foundation placement. Earthwork subcontractor to ensure subgrade is not left greater than -1" from project documents.
- QQ. All spoils generated from foundation installation are the responsibility of the concrete subcontractor to remove from site. No on-site soil storage is allowed. Material is required to go to a clean fill waste site. All costs associated with trucking and disposal are included in this scope of work. No additional funds will be procured for this work.
- RR. Concrete subcontractor to include supply and install of all stone from subgrade to underside of slab on grade. Subcontractor to perform all compaction and fine grading of stone subgrade as required. Any modifications by other trades such as electrical or plumbing subcontractor will be their responsibility to correct or formal back charge issued to them to have concrete subcontractor correct stone base.
- SS. Plumbing subcontractor to install prior to concrete pour installation of roof drain systems.
- TT. Subcontractor to include detailed excavation (including removal of soils from site) and backfill for all footings and elevator pits.
- UU. Soils generated from excavation of foundations may be reused as fill if they meet the project document requirements for fill and/or topsoil at the time of use, are properly stored, and are tested by a third party testing agency. This subcontractor will be responsible for all excess soil generated from the site to be removed immediately.
- VV. Coordinate with Pepper (Pepper will contact A/E) and owners 3rd party testing agency for field quality control.
- WW. Subcontractor to supply and install all required back fill for foundation wall systems utilizing imported materials.
- XX. Concrete subcontractor will be required to backfill all footings utilizing imported materials.
- YY. Individual subcontractors will be responsible for supply and installation of their systems preinstalled embeds. Subcontractor will be responsible for attending BIM coordination meetings too as placement of embeds will need to be reviewed in comparison with concrete structure reinforcement systems. Prior to placement of embeds a finalized layout plan will be signed off by all parties and turned over to field teams to install embeds and reinforcement systems. Any modifications in the field must result in a red line that is then updated and captured in the BIM model.

- ZZ. The concrete subcontractor is responsible at time of wrecking forms to ensure all embeds are free of concrete. Any embed found to have concrete in it shall be cleaned by concrete subcontractor. Concrete subcontractor is solely responsible for replacement of any damaged embeds that occur during concrete placement, form removal, and reshoring.
- AAA. Subcontractor to layout and install all concrete embeds provided by steel and elevator subcontractors.
- BBB. Work with Owner's testing agency in preparing material samples. No pours shall occur without samples being collected.
- CCC. Subcontractor to include all necessary dewatering and/or temporary drainage work required for the complete execution and installation of concrete. Pumping and dewatering as required for this scope of Work. Temporary grading is required to maintain positive drainage. Subcontractor to include all costs for pumping and dewatering that could be reasonably anticipated from usual weather conditions in the area based on historical information and the time of anticipated construction. At the time of completing the install of the concrete elevator pits subcontractor shall set a temporary pump (VEVOR 1.5 HP Submersible Cast Iron, or equal unit) inside of each sump pit, placed inside of a bucket, with a float, a 200' of discharge hose, 300' of extension cord, and a GFCI cord attachment. Subcontractor to provide an additional two (2qty) pumps (same Vevor 1.5hp unit or equal) to Pepper Construction at time of project mobilization. These and the other units are to remain onsite and will not be returned to the subcontractor. Failure to complete this process as defined above will result in Pepper completing this process and all associated cost incurred being sent through as a back charge to the subcontractor in the amount of \$4,500.
- DDD. Include control joints and saw cutting of slabs as required per the Contract Documents.
- EEE. Include joint sealants for this scope of work.
- FFF. Include slab expansion and transition details as required per the Contract Documents.
- GGG. Include below-grade rigid insulation at locations as shown per Documents.
- HHH. Include concrete stair pan and landing infills.
- III. Include toe-boards at all elevated pan slab perimeter locations (setup only).
- JJJ. Include installation of any pipe bollards as shown per Documents.
- KKK. Include moisture retention curing for slabs so curing compounds won't need removed prior to flooring.
- LLL. Include all slab recesses, pour stops, turn downs, thickened slabs, etc. as shown and required per Documents.
- MMM. Do not include moisture mitigation additives or accelerators in your base bid.
- NNN. Include task lighting as necessary for slab pours.

- OOO. Include concrete washout dumpsters/slurry cleanup for all required concrete work.
- PPP. Include coordination of pipe sleeves with MEP trades as required.
- QQQ. Include in your base bid material, labor and equipment costs to meet project schedule. No additional costs will be given for material escalation, labor burden increases, commodity increases, etc.
- RRR. Labor and equipment rates are to be submitted with your bid proposal.
- SSS. Paint all steel below grade with 2-coats of asphaltum or encase in minimum 4" of concrete as noted in the structural drawings.
- TTT. Include any costs associated with the visual, stand-alone mockup per 01 45 10.

1.4 EXCLUSIONS

- A. The following items have been specifically excluded from this bid package:
 - 1. Dumpsters

1.5 ALLOWANCES

A. Composite cleaning crew: All subcontractors provide a laborer, on a weekly basis, to compile a composite crew that will be utilized for construction cleaning at the sole direction of Peppers' superintendent. Subcontractors will only be required to provide an individual only during the time the subcontractor or tiered subcontractors are performing work onsite. This shall be figured at 8 hours per week.

1.6 DESIGN ALTERNATES:

- 1. Alternate #1: Site Aggregate Path Alternate.
- 2. Alternate #2: Playground Surfacing Alternate.
- 3. Alternate #3: Telescoping Stands and Retractable Audience Seating Alternate.
- 4. Alternate #4: Motor Operated Roller Shades Alternate.
- 5. Alternate #5: Area Rugs Alternate.

1.7 CONSTRUCTION ALTERNATES:

- 1. Alternate #1: Site Concrete
- 2. Alternate #2: Joint Sealants, Acoustical Sealants, Firestopping

1.8 UNIT PRICES

- A. Current Labor Rates (do not include overhead and profit).
- B. Moisture mitigation additives (give options for all accelerators and timing options \$/cy)
- C. Rebar material and labor \$/ton

1.9 BREAKOUTS

- A. Building Concrete
- B. Site Concrete
- C. Joint Sealants
- D. Mockup

PRODUCTS (Not Used)

PART 2 - EXECUTION (Not Used)

PART 1 - GENERAL

A.

1.1 PROJECT DRAWINGS & SPECIFICATION

Contract to include the following drawings for reference:

Bartholomew Consolidated School Corporation – New Elementary #12 – Maple Grove

- 1. For a full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
- 2. Scope Specific Specifications:
 - 1) 00 Procurement and Contracting Requirements
 - 2) 01 General Requirements
 - 3) 04 Masonry
 - 4) 05 50 00 Metal Fabrications (Partial)
 - 5) 07 62 00 Sheet Metal Flashing and Trim (Partial)
 - 6) 08 11 13 Hollow Metal Doors and Frames (Partial)
 - 7) 08 31 13 Access Doors and Frames (Partial)
 - 8) 20 00 50 Common Materials and Methods for Fire Suppression, Plumbing and HVAC (Partial)
 - 9) 26 05 44 Sleeves and Sleeve Seals for Electrical Raceways and Cabling (Partial)

1.2 PROJECT SPECIFIC CLARIFICATIONS

A. See attached Exhibit B.1

- A. Ensure all exposed rebar is coated to ensure rusting does not occur.
- B. All scaffold buildings associated with this scope of work to be completed by certified scaffold builders. Scaffolds shall meet all OSHA and Pepper requirements.
- C. Scaffolding:
 - 1. The scaffolding system being used must support 4 times the maximum intended load and must be designed by a qualified person. Scaffolds must be inspected daily by a competent person before each use and tagged/signed off appropriately.
 - 2. All scaffold planking must be scaffolding grade lumber.
 - 3. Employees working on, erecting, disassembling, or moving the scaffold must receive training in safe work practices.
 - 4. A limited access zone must be established on the un-scaffolded side of the masonry wall which equals the height of the wall plus 4'.
 - 5. All walls over 8' in height must be braced to prevent overturning or collapse. The braces must be of sufficient strength to support the wall based on the forces applied by wind conditions. Winds over 20 mph on newly built walls exert considerable force. When winds over 35 mph occur, employees must evacuate the area.

- 6. Masonry saws or partner saws must be provided with water systems to reduce the likelihood of employees being exposed to silica levels above the PEL.
- 7. Employees exposed to silica dust must be provided with and utilize the appropriate respirator including proper fit testing.
- 8. Respiratory Protection Respirators are required when dust, mist, fumes, or vapors exceed the OSHA PEL's. Employees wearing respirators must receive training, medical evaluations, and respirator fit testing prior to beginning work.
- 9. When exposed to airborne silica can be expected, sampling may be required to determine OSHA PEL.
- 10. All employees operating forklifts must have been trained in and have certification in forklift training.
- 11. Subcontractors scaffold system must be made available to other trades for install of inwall MEP systems.
- D. If water is used from a public source, the backflow preventor and/or meter will be provided as part of this scope of work.
- E. Subcontractor to include all labor, material, tools, equipment, supervision necessary to complete this scope of work. This includes, but is not limited to masonry ties, anchors, clips, reinforcing steel, horizontal reinforcing, mortar, grout, wire mesh, wall ties, flashings and other masonry accessories required to provide complete CMU masonry systems.
- F. Supply and install of reinforcing steel into concrete slabs for masonry walls is included.
- G. Provide all and securely install temporary waterproof sheeting to be placed over the tops of wall, projections, and sills at end of each workday. Ensure per specifications there is a minimum of 24 inches coverage down both sides of the wall.
- H. Provide all masonry wall types shown in the construction documents.
- I. Provide specialty masonry shapes including but not limited to bull-nosed inside and outside corners, radius concrete block, lintels, headers, expansion joints, control joint edges, etc.
- J. Provide bracing for walls extending above 8' in height until permanent lateral bracing is installed. Braces must be supported by means other than anchoring to finished construction (i.e., no anchoring to finished slabs, foundation walls, etc.).
- K. Coordinate with MEP contractors for through-wall penetrations and installation of other trade provided sleeves.
- L. Provide masonry cleaning leaving units ready for painting.
- M. Protect adjacent materials from staining both during masonry installation and during any cleaning as outlined in the project specifications. If sand is to be used to prevent adhesion to concrete slab surface, all associated sand, cleanup, and washing to leave the slab in the condition it was prior to the masonry work is included in this scope.
- N. Provide units made with integral water repellent for exposed units. Use liquid water-repellent mortar admixture for mortar in use with these units.

- O. Before installation, examine and verify rough-in and built-in construction for MEP systems to verify actual locations of piping for any MEPs in masonry walls.
- P. Acoustic sealant and firestopping will be by BP-07 Joint Sealants, Fireproofing and Firestopping, Dampproofing & Waterproofing, and Air Barriers subcontractor.
- Q. Install only of all door frames in masonry walls is included in this scope of work. Furnish of frames is by BP-17A General Trades Door Systems subcontractor. BP-02B Masonry subcontractor is responsible for the frame being plumb, square, and level to ensure proper function of door and hardware upon installation. The subcontractor is responsible for coordinating with Pepper and associated subcontractors to ensure all door access control system pathways are installed prior to installing block. All requirements for grouting the frame are to be completed by building masonry subcontractor.
- R. All lintels are furnished and installed as part of this scope of work. Coordinate lintels with MEP's as required based on maximum opening sizes and MEP coordinated model. Masonry "lifts" (low or high) should be installed in such a way as to allow for a complete MEP installation with cutting/notching/or removal of CMU included in this scope of work.
- S. Provide detailed control joint plan. All accessories required for joints to make a complete joint per the construction documents are included in this scope of work.
- T. Subcontractor to maintain 0'-2" of spacing between top of masonry wall systems and concrete deck for any walls running to deck. Top of 2" space must be clear of all masonry or excess grout/material and prepped for mineral wool/sealants/firestopping/etc.
- U. Sealant compatibility and adhesion testing to be included as part of this scope of work.
- V. Immediately remove mortar and soil to prevent them from staining stone masonry face as outlined in the specifications.
- W. Keep sealant joints free of mortar and other rigid material. Joint sealants to be furnished and installed under BP-07.
- X. Follow cleaning procedures outlined in the project documents including cleaning process and approval.
- Y. BP-02B Masonry subcontractor is responsible for furnishing and installing all shelf angles required for the scope of work outlined in this bid package.
- Z. BP-02B Masonry subcontractor is responsible for furnishing and installing wedge-type concrete inserts complete with fasteners, to attach shelf angles to cast-in-place concrete.
- AA. Bearing plates and associated anchors/accessories are provided by BP-04 Structural and Misc. Steel. BP-02B Masonry includes coordination with BP-04 and installation of components embedded in masonry system grouting (i.e. bolts).
- BB. Coordinate all lateral support locations with BP-04 subcontractor. See details on S403 for reference.

CC. All channel slots shop welded to steel are furnished and installed by BP-04 subcontractor. Included in this subcontract is coordination and supply of drawings to BP-04 for their shop install of said channels.

1.4 EXCLUSIONS

- A. The following items have been specifically excluded from this bid package:
 - 1. Payment and performance bond.
 - 2. Full time, non-working safety professional.
 - 3. Joint Sealants
 - 4. Firestopping

1.5 ALLOWANCES

All allowances shall only be approved for use or deduction from subcontract by Pepper Construction through written notice. At the end or anytime at Pepper Constructions discretion any and all unused allowances can be deducted from the subcontract through a formal change order.

A. Composite cleaning crew: All subcontractors provide a laborer, on a weekly basis, to compile a composite crew that will be utilized for construction cleaning at the sole direction of Peppers' superintendent. Subcontractors will only be required to provide an individual only during the time the subcontractor or tiered subcontractors are performing work onsite. This shall be figured at 8 hours per week. Value \$

1.6 DESIGN ALTERNATES

- 1. Alternate #1: Site Aggregate Path Alternate.
- 2. Alternate #2: Playground Surfacing Alternate.
- 3. Alternate #3: Telescoping Stands and Retractable Audience Seating Alternate.
- 4. Alternate #4: Motor Operated Roller Shades Alternate.
- 5. Alternate #5: Area Rugs Alternate.

1.7 CONSTRUCTION ALTERNATES

- 1. Alternate #1: Site Concrete
- 2. Alternate #2: Joint Sealants, Acoustical Sealants, Firestopping

1.8 UNIT PRICES

A. Current Labor Rates (do not include overhead and profit).

1.9 BREAKOUTS

- A. Masonry Material
- B. Masonry Install Labor

PRODUCTS (Not Used)

PART 2 - EXECUTION (Not Used)

EXHIBIT B – Bid Package 03 – PRECAST ARCHITECTURAL CONCRETE

PART 1 - GENERAL

1.1 PROJECT DRAWINGS & SPECIFICATION

A. Contract to include the following drawings for reference

Department of Administration, Public Works – Indiana State Archives Project No. 49020034-22-009-D1

- 1. For a full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
- 2. Scope Specific Specifications:
 - 1) 00 Procurement and Contracting Requirements
 - 2) 01 General Requirements
 - 3) 03 45 00 Precast Architectural Concrete
 - 4) 07 21 00 Thermal Insulation (Partial)
 - 5) 07 62 00 Sheet Metal Flashing & Trim (Partial)
 - 6) 07 92 00 Joint Sealants (Partial)

1.2 PROJECT SPECIFIC CLARIFICATIONS

A. See Attached Exhibit B.1.

- A. The following items are to be specifically included in this bid package:
 - 1. All layout associated with this scope of work has been considered and is included in the base bid. Control points or benchmarks to be established by Pepper Construction Company in coordination with the site utilities subcontractor
 - 2. Schedule A milestone schedule is included herein the bid documents. Upon award, all subcontractors shall participate in a pull-planning meeting on site in which a detailed schedule showing interaction & coordination among all trades will be created & mutually agreed upon. The project manager and field supervisor responsible for each bid category should be present at each pull planning session.
 - 3. Provide separate submittal/shop drawings for the building mockup. This will require an early, separate delivery of mockup material in advance of the building material. Any additional shipping/freight charges, mobilizations, equipment, etc. to erect the mockup are to be included in this bid.
 - 4. Base bid to include complete installation. This includes but is not limited to; layout, field measuring openings, shop drawings and calculations, samples, shims, anchors, support/tie in to building structure, expansion anchors/clips and considerations, sealants, caulking, testing, and a complete warranty as outlined in the construction documents.

- 5. Delegated design shop drawings and calculations to be included in the base bid. Precast subcontractor to submit a detailed plan on how they plan to tie into building structure with bid submission (anchors and support). Anchorage to building structure should be included in base bid, provide expansion and thermal requirements as required by construction documents.
- 6. This subcontractor is responsible for any cutouts necessary for any items penetrating the precast. This includes, but is not limited to, plumbing fixtures, light fixtures, card readers, fire alarm devices, louvers, structural supports, etc. This subcontractor is responsible for finishing and sealing penetrations to ensure they are watertight.
- 7. Include all temporary conditions and safety measures required for your scope.
- 8. Provide necessary equipment per project logistics and safety requirements.
- 9. Include complete precast scope of work, including but not limited to, sandwich panel insulation, delegated design, installation, welding, furnish and install of clips/embeds/supplemental steel required, furnish of components for install by other trades as required, engineered design, calculations, shop drawings, joint sealants, etc.
- 10. Include back of panel finish in exposed areas per the Contract Documents.
- 11. Furnish and install all shims and bearing pads as required. Include shimming and grouting as required.
- 12. Include notch in precast panels (ref: 4/A430) at locations indicated in the Documents. 08 44 13-E metal trim by others.
- 13. Door frame channel assemblies cast into precast wall panels.
- 14. Include all casting-in of MEP hardware. To be supplied by MEP contractors to precast plant.
- 15. Include all casting-in of electrical/low-voltage assemblies as required by the Documents.
- 16. Include costs for coordination of plates, embeds, etc. with other trades.
- 17. Include cleaning top of footing/foundation wall and prepping for precast panel installation.
- 18. Include grouting and patching as needed.
- 19. Include in your bid material, labor, and equipment costs to meet project schedule. No additional costs will be given for material escalation, labor burden increases, commodity increases, etc.
- 20. Labor and equipment rates are to be submitted with your bid proposal.

B. Include any costs associated with the visual, stand-alone mockup per 01 45 10.

1.4 EXCLUSIONS

- A. The following items have been specifically excluded from this bid package:
 - 1. Copings
 - 2. Firestopping (to be completed by other bid packages)
 - 3. Spray foam insulation (to be completed by other bid packages)
 - 4. Dumpsters

1.5 ALLOWANCES

A. Composite cleaning crew: All subcontractors provide a laborer, on a weekly basis, to compile a composite crew that will be utilized for construction cleaning at the sole direction of Peppers' superintendent. Subcontractors will only be required to provide an individual only during the time the subcontractor or tiered subcontractors are performing work onsite. This shall be figured at 8 hours per week.

1.6 DESIGN ALTERNATES:

- 1. Alternate #1: Site Aggregate Path Alternate.
- 2. Alternate #2: Playground Surfacing Alternate.
- 3. Alternate #3: Telescoping Stands and Retractable Audience Seating Alternate.
- 4. Alternate #4: Motor Operated Roller Shades Alternate.
- 5. Alternate #5: Area Rugs Alternate.

1.7 CONSTRUCTION ALTERNATES:

- 1. Alternate #1: Site Concrete
- 2. Alternate #2: Joint Sealants, Acoustical Sealants, Firestopping

1.8 UNIT PRICES

A. Current Labor Rates (do not include overhead and profit.

1.9 BREAKOUTS

- A. Visual, Stand-Alone Mockup
- B. Precast Wall Panels

- C. Joint Sealants
- 1.10 PRODUCTS (Not Used)

PART 2 - EXECUTION (Not Used)

EXHIBIT B – Bid Package 04 – STRUCTURAL & MISCELLANEOUS STEEL

PART 1 - GENERAL

1.1 PROJECT DRAWINGS & SPECIFICATION

A. Contract to include the following drawings for reference

Department of Administration, Public Works – Indiana State Archives Project No. 49020034-22-009-D1

- 1. For a full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
- 2. Scope Specific Specifications:
 - 1) 00 Procurement and Contracting Requirements
 - 2) 01 General Requirements
 - 3) 05 12 00 Structural Steel Framing
 - 4) 05 21 00 Steel Joist Framing
 - 5) 05 31 00 Steel Decking
 - 6) 05 50 00 Metal Fabrications (Partial)
 - 7) 05 51 13 Metal Stairs
 - 8) 05 52 13 Aluminum Pipe and Tube Railings
 - 9) 05 73 00 Decorative Metal Railings
 - 10) 06 10 53 Miscellaneous Rough Carpentry (Partial)
 - 11) 07 62 00 Sheet Metal Flashing & Trim (Partial)
 - 12) 07 72 00 Roof Accessories (Partial)

1.2 PROJECT SPECIFIC CLARIFICATIONS

A. See Attached Exhibit B.1.

1.3 SCOPE SPECIFIC CLARIFICATIONS

- A. The following items are to be specifically included in this bid package:
- B. All layout and engineering as required to complete the scopes including miscellaneous metals and metal canopies scopes of work. Layouts to be conducted by use of total station or equivalent system. Pepper to provide control points.
- C. Include all required task temporary lighting as required for this scope of work.
- D. Provide temporary protection/barriers around the erection of the steel onsite. This should include any barricades and signage. Plans to be coordinated with the Construction Manager before starting.
- E. This contract includes all traffic control as necessary pertaining to subcontractors' scope of work.

- F. It will be this contractors' responsibility to protect the existing paved areas, sidewalks, curbs, landscaped areas to remain from damage. Any damage to the roads caused by this subcontractor's scope of work will need to be repaired at their expense. If damage is not repaired, then Pepper Construction will make necessary repairs and will back charge.
- G. Include required mobilizations and demobilizations based upon provided project schedule.
- H. Includes daylight work hours and 2nd shift as required to maintain schedule.
- I. Placement of welding machines and associated equipment placement to be coordinated with Pepper field supervision.
- J. Prior to site mobilization provide written plan for review of proposed equipment utilized to erect steel, stairs, and loading building with decking. Identify any critical lifts to occur. Plan to be reviewed by Pepper Safety department.
- K. The subcontractor acknowledges the Site Logistics plan included in bidding documents and will utilize this plan as a reference for what is intended and expected from Pepper Construction.
- L. Provide and deliver to site required spare parts for owner's attic stock. Ensure all items are counted and a transmittal is provided with each delivery. Coordinate with Pepper.
- M. The subcontractor is given authority to make minor adjustments, with prior approval from Pepper superintendent to the site logistics plan where means of efficiency for the project can be achieved. Subcontractor acknowledges that if the plan is adjusted, and the end result of the adjustment increases the scope of work for either Pepper or any other subcontractor onsite, subcontractor is subject to a back charge as may be required.
- N. Subcontractor to provide the following items identified below (including delivery to jobsite). Review of project schedule and coordinate delivery with Cast-In-Place Concrete trade partner.
 - 1. Stair Framing Division 5 (Cast-In-Place Concrete Subcontractor to complete pouring of stair treads and landings).
- O. Subcontractor to provide the following items identified (including delivery to jobsite). Review of project schedule and coordinate delivery with Masonry trade partner.
 - 1. Elevator Shafts Angle
 - 2. Dispatch Angles
- P. Supply and install steel angle around the interior and exterior side of elevator shafts at the top. This work shall occur after the fire stopping subcontractor has completed "stuffing and spraying" of joint between masonry block and roof deck.
- Q. Subcontractor to include all labor, materials, tools, equipment, and supervision necessary to complete the steel scope of work.
- R. Contract includes the furnish and install required for steel scope including but not limited to the following items as shown on the project drawings and noted on project specifications:
 - 1. Structural Steel
 - 2. Steel Roof Deck

- 3. Composite Steel Floor Deck
- 4. Metal Pan Stairs
- 5. Pipe and Tube Railings
- 6. Parapet Angle
- 7. Elevator Pit Grates
- 8. Structural Thermal Breaks
- 9. Interior Storefront System(s) steel
- S. Provide submittals as indicated in the specifications.
- T. Provide product data as indicated in the specifications.
- U. Provide detailed plan for erection and delivery to site.
- V. Provide all required temporary conditions necessary for staging/storing of steel and associated materials as identified in project documents.
- W. Provide and install approved coverings to protect finishes of railings from damage during construction period. Removal by others.
- X. Provide shop drawing submittal indication location and elevation for in wall blocking requirements for handrails.
- Y. Removal of all temporary conditions and repairs to permanent conditions effected by placement of temporary supports.
- Z. Perform review of connection points between cast-in-place concrete and this scope to confirm points are within required tolerances (elevation, spacing, and all other related controls). This shall occur prior to concrete pour(s).
- AA. Provide column anchor bolt templates for use by cast-in-place concrete subcontractor to obtain layout conformity. A minimum of 2 templates per base plate style shall be fabricated and delivered to site. Material of templates shall be fabricated out of sheet metal (minimum 3/16" thick). Templates to be marked identifying which column baseplate it is associated with and project name.
- BB. Provide and install of required miscellaneous steel and modifications to decking around MEP penetrations as outlined in the project documents. Includes coordination between this scope and MEP trades.
- CC. All required sleeves, cores, box out and saw cutting will be indicated by on subcontractor's shop drawings for Structural Engineer's approval prior to placement or cutting holes.
- DD. Subcontractor to provide and complete install of all required structural thermal breaks complete.
- EE. Include all required cleaning of permanent materials that have become soiled prior to erection as defined in specifications.
- FF. Provide all priming, painting, coatings, and touch-up of steel as identified in project documents.

- GG. Provide temporary handrail system following OSHA requirements until permanent system is installed at curtainwalls, stairs, stair openings, MEP, shafts, and vertical ribbon windows. The handrail shall be constructed out of metal angle welded to structural steel and have and top and bottom cable running between each station. Include removal of temporary conditions and refurbishment to finish.
- HH. Contract includes the furnish and install required for roof accessories scope including but not limited to the following items as shown on the project drawings and noted on project specifications:
 - 1. Roof Hatches
- II. Provide all priming, painting, coatings, and touch-up identified in project documents.
- JJ. Include all required cleaning of permanent materials that have become soiled prior to erection as defined in specifications.
- KK. Coordinate install with roofing subcontractor to confirm proper installation occurs between systems.
- LL. Bearing plates and associated anchors/accessories are provided by this subcontractor. Coordinate with associated subcontractors for install of embedded components.
- MM. Furnish and install all metal plates and angles at the top off all CMU walls as scheduled. This subcontractor to coordinate with the masonry subcontractor.
- NN. Furnish and install the exterior screen wall steel.
- OO. Include any costs associated with the visual, stand-alone mockup per 01 45 10.

PP.

1.4 EXCLUSIONS

- A. The following items have been specifically excluded from this bid package:
 - 1. Payment and performance bond.
 - 2. Full time, non-working safety professional.

1.5 ALLOWANCES

1.6 DESIGN ALTERNATES:

- 1. Alternate #1: Site Aggregate Path Alternate.
- 2. Alternate #2: Playground Surfacing Alternate.
- 3. Alternate #3: Telescoping Stands and Retractable Audience Seating Alternate.
- 4. Alternate #4: Motor Operated Roller Shades Alternate.
- 5. Alternate #5: Area Rugs Alternate.

1.7 CONSTRUCTION ALTERNATES:

- 1. Alternate #1: Site Concrete
- 2. Alternate #2: Joint Sealants, Acoustical Sealants, Firestopping

1.8 UNIT PRICES

A. Current Labor Rates (do not include overhead and profit.

1.9 BREAKOUT PRICING:

- A. 05 12 00 Structural Steel Framing
- B. 05 21 00 Steel Joist Framing
- C. 05 31 00 Steel Decking
- D. 05 50 00 Metal Fabrications (Partial)
- E. 05 51 00 Metal Stairs
- F. 05 52 15 Aluminum Pipe and Tube Railings
- G. 05 73 00 Decorative Metal Railings
- H. 06 10 53 Miscellaneous Rough Carpentry (Partial)
- I. 07 62 00 Sheet Metal Flashing & Trim (Partial)
- J. 07 72 00 Roof Accessories (Partial)
- K. Mockup

PRODUCTS (Not Used)

PART 2 - EXECUTION (Not Used)

END OF SECTION 01 00 00

EXHIBIT B – Bid Package 05 – GLASS & GLAZING AND METAL PANELS

PART 1 - GENERAL

1.1 PROJECT DRAWINGS & SPECIFICATION

A. Contract to include the following drawings for reference

Department of Administration, Public Works – Indiana State Archives Project No. 49020034-22-009-D1

- 1. For a full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
- 2. Scope Specific Specifications:
 - 1) 00 Procurement and Contracting Requirements
 - 2) 01 General Requirements
 - 3) 06 10 53 Miscellaneous Rough Carpentry (Partial)
 - 4) 07 21 00 Thermal Insulation (Partial)
 - 5) 07 42 13 Formed Metal Wall Panels
 - 6) 07 42 43 Metal Composite Material Wall Panels
 - 7) 07 62 00 Sheet Metal Flashing & Trim (Partial)
 - 8) 07 92 00 Joint Sealants (Partial)
 - 9) 08 41 13 Aluminum-Framed Entrances and Storefronts
 - 10) 08 44 13 Glazed Aluminum Curtainwalls
 - 11) 08 45 23 Fiberglass-Sandwich Panel Assembly
 - 12) 08 71 00 Door Hardware (Partial)
 - 13) 08 80 00 Glazing
 - 14) 08 87 00 Glazing Film
 - 15) 08 88 53 Security Glazing

1.2 PROJECT SPECIFIC CLARIFICATIONS

A. See Attached Exhibit B.1.

1.3 SCOPE SPECIFIC CLARIFICATIONS

- A. The following items are to be specifically included in this bid package:
 - 1. Contractor to include all labor, materials, tools, equipment, and supervision necessary to complete the glass and glazing and metal panel scope of work.
 - 2. All lifts shall maintain a diaper for duration of being onsite and be free of any fasteners in tires. Wheels shall be non-marking.

- 3. All layout associated with this scope of work has been considered and is included in the base bid. Control points or benchmarks to be established by Pepper Construction Company in coordination with the site utilities contractor
- 4. Schedule A milestone schedule is included in the bid documents. Upon award, all contractors shall participate in a pull-planning meeting on site in which a detailed schedule showing interaction & coordination among all trades will be created & mutually agreed upon. The project manager and field supervisor responsible for each bid category should be present at each pull planning session.
- 5. Provide separate submittal/shop drawings for the building mockup. This will require an early, separate delivery of mockup material in advance of the building material. Any additional shipping/freight charges, mobilizations, equipment, etc. to erect the mockup are to be included in this bid.
- 6. Include all aluminum-framed entrances and storefronts complete. Include furnishing and installing all aluminum doors and hardware.
- 7. Base bid to include a complete curtainwall/storefront/entrance and metal panel installation. This includes but is not limited to; layout, field measuring openings, shop drawings and calculations, samples, shims, anchors, support/tie in to building structure, expansion anchors/clips and considerations, sealants, caulking, glazing, frit patterns/films, door hardware, testing, and a complete warranty as outlined in the construction documents.
- 8. Include delegated design submittal(s) with P.E. stamps as specified.
- 9. Submit detailed plan with tie-in plan to building structure with bid submission (embeds, anchors, supports, etc.). Curtain wall anchorage to building structure should be included in base bid, provide expansion and thermal requirements as required by construction documents.
- 10. Furnish and install all door lite glass located with steel doors.
- 11. Subcontractor to include all sealants required for complete, water-tight systems.
- 12. At curtainwall F and T anchors, notch the anchors 1"x1" at the bottom front of the anchor to allow for a continuous backer rod and sealant at the primary seal location. Applies to all head and sill locations.
- 13. At curtainwall, remove the curtainwall stem at all vertical mullions where flashing is glazed in. This allows the flashing to run continuously to the jambs.
- 14. Include all backpans as shown. At locations where firestop is in direct contact with the backpan, provide a galvanized back pan. Seal backpans to the mullions from the front side all four sides.

- 15. Cap the top and bottom of all vertical mullions at all locations where there are no F or T anchors. The cap can be accomplished with a small rectangle of aluminum sealed down all four sides.
- 16. Provide all prefinished head/sill/jamb and corner flashings as shown in detail. Glazing subcontractor to coordinate size and location of prefinished flashing with adjacent work.
- 17. Subcontractor to include all curtain wall insulation. In locations with back pan, subcontractor to provide unfaced insulation.
- 18. Include and install complete flashing around openings included in this scope. Any trims identified as "trim to match CW finish" are to be furnished and installed in this scope of Work.
- 19. Include furnishing and installing all exterior and interior aluminum doors, hardware and accessories complete.
- 20. Include all glazing films and coatings in accordance with the project documents.
- 21. Subcontractor to include all interior door and frame lite glazing.
- 22. Furnish and install all sidelite glass located in hollow-metal frames.
- 23. Include all fire-rated door lite glass as indicated. Coordinate sizes with door supplier.
- 24. Subcontractor to furnish and install interior storefronts, aluminum doors and hardware complete.
- 25. Furnish and install all glazing films per the Documents.
- 26. Scope includes all door aluminum entrance door thresholds as shown in construction documents. Door thresholds should adhere to ADA standards.
- 27. Provide temporary doors with security hardware at all exterior storefront door openings if finished door hardware is not installed and functional at the end of the day.
- 28. Furnish and install all Div 08 aluminum brake metal flashings/trims per the Documents. Include any insulation behind Div. 8 brake metal locations similar to detail 3/A430.
- 29. Furnish and install the pressure plate with mullion cap (08 44 13-E) at the precast locations per the Documents. Reference detail 4/A430.
- 30. Furnish and install all outboard insulation and sub-framing systems behind all metal panel systems complete.

- 31. Furnish and install all manufactured roof facias (07 71 00-C).
- 32. Furnish and install metal panels and coping at the new exterior screen wall.
- 33. Furnish and install all Div. 07 brake metals associated with the metal panel system (i.e. 07 42 43-B). Include costs for any custom profiles or new dies that may be necessary to match the profiles in the Documents. For example, reference details 1 & 5/A430.
- 34. Include all testing as noted in contract specifications.
- 35. Provide cleaning prior to installation of all materials provided by this subcontractor that have any foreign materials on them.
- 36. Provide all accessories including but not limited to gasketing, anchors, concealed flashing, and Bituminous Paint.
- 37. Subcontractor to included installation of coatings or spacing materials to eliminate dissimilar metals, concrete, and masonry from creating galvanic action.
- 38. Include removal and disposal of all materials provided and installed for temporary utilization for mockups as specified in the project documents.
- 39. Provide required provisions to complete setting of tolerances in the following items but not limited to closures, hinges, thresholds, and all other provided items included in this subcontractor's scope.
- 40. Provide and complete field quality control testing as identified in project documents. Including all required equipment (lifts, hoses, gauges & etc.), labor, and supervision.
- 41. Coordinate with Pepper field staff when to complete removal of temporarily applied plastics and materials on frames and glazing. Ensure all surfaces are free of residues, adhesive, or other materials.
- 42. Provide and install all prefinished aluminum support brackets for curtainwall support back to structural steel. Sim. 4/A403. Paint to match mullions.
- 43. Provide and install any wood blocking and flashing similar to detail 8/A431 adjacent to precast.
- 44. Furnish and install the exterior screenwall metal panels.
- 45. The structural steel subcontractor will furnish and install the exterior screen wall tube steel. This subcontractor is responsible to furnish and install all other attachment steel, girts, etc. for the new metal panels and coping.

- B. Include any costs associated with the visual, stand-alone mockup per 01 45 10.
- C. Per 07 42 13/2.02 exposed-fastener lap-seam metal wall panels, provide custom color as selected by Architect to match composite wall panel.
- D. Per 08 41 13/2.08, include custom Kynar paint finishes as scheduled.
- E. Per 08 44 13/2.4, furnish and install pressure plate with mullion caps in a custom color to match soffit and exterior steel columns.

1.4 EXCLUSIONS

- A. The following items are specifically excluded from this bid package:
 - 1. Premanufactured copings. By roofing subcontractor.

1.5 ALLOWANCES

A. Composite cleaning crew: All subcontractors provide a laborer, on a weekly basis, to compile a composite crew that will be utilized for construction cleaning at the sole direction of Peppers' superintendent. Subcontractors will only be required to provide an individual only during the time the subcontractor or tiered subcontractors are performing work onsite. This shall be figured at 8 hours per week.

1.6 DESIGN ALTERNATES:

- 1. Alternate #1: Site Aggregate Path Alternate.
- 2. Alternate #2: Playground Surfacing Alternate.
- 3. Alternate #3: Telescoping Stands and Retractable Audience Seating Alternate.
- 4. Alternate #4: Motor Operated Roller Shades Alternate.
- 5. Alternate #5: Area Rugs Alternate.

1.7 CONSTRUCTION ALTERNATES:

- 1. Alternate #1: Site Concrete
- 2. Alternate #2: Joint Sealants, Acoustical Sealants, Fire Stopping

1.8 UNIT PRICES

A. Current Labor Rates (do not include overhead and profit).

1.8 BREAKOUTS:

- A. 06 10 53 Miscellaneous Rough Carpentry (Partial)
- B. 07 21 00 Thermal Insulation (Partial)

- C. 07 42 13 Formed Metal Wall Panels
- D. 07 42 43 Metal Composite Material Wall Panels
- E. 07 62 00 Sheet Metal Flashing & Trim (Partial)
- F. 07 92 00 Joint Sealants (Partial)
- G. 08 41 13 Aluminum-Framed Entrances and Storefronts
- H. 08 44 13 Glazed Aluminum Curtainwalls
- I. 08 45 23 Fiberglass-Sandwich Panel Assembly
- J. 08 71 00 Door Hardware (Partial)
- K. 08 80 00 Glazing
- L. 08 87 00 Glazing Film
- M. 08 88 53 Security Glazing
- N. Mockup

PRODUCTS (Not Used)

PART 2 - EXECUTION (Not Used)

END OF SECTION 01 00 00

EXHIBIT B – Bid Package 06 – MEMBRANE ROOFING

PART 1 - GENERAL

1.1 PROJECT DRAWINGS & SPECIFICATION

A. Contract to include the following drawings for reference

Department of Administration, Public Works – Indiana State Archives Project No. 49020034-22-009-D1

- 1. For a full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
- 2. Scope Specific Specifications:
 - 1) 00 Procurement and Contracting Requirements
 - 2) 01 General Requirements
 - 3) 06 10 53 Miscellaneous Rough Carpentry (Partial)
 - 4) 07 21 00 Thermal Insulation (Partial)
 - 5) 07 54 19 Polyvinyl Chloride (PVC) Roofing
 - 6) 07 62 00 Sheet Metal Flashing & Trims (Partial)
 - 7) 077100 -Roof Specialties
 - 8) 07 72 00 Roof Accessories
 - 9) 07 76 00 Roof Pavers & Pedestals
 - 10) 07 92 00 Joint Sealants (Partial)

1.2 PROJECT SPECIFIC CLARIFICATIONS

A. See Attached Exhibit B.1.

1.3 SCOPE SPECIFIC CLARIFICATIONS

- A. All lifts shall maintain a diaper for duration of being onsite and be free of any fasteners in tires. Wheels shall be non-marking.
- B. All layout and engineering as required to complete the scopes including roofing, sheet metal flashing, and trim scopes of work. Layouts to be conducted by use of total station or equivalent system. Pepper to provide control points.
- C. Include all required task temporary lighting as required for this scope of work.
- D. Provide temporary protection, barriers, and flagging. This should include any barricades and signage. Plans to be coordinated with the Construction Manager before starting.
- E. This contract includes all traffic control as necessary pertaining to subcontractors' scope of work.
- F. It will be this contractors' responsibility to protect the existing paved areas, sidewalks, curbs, landscaped areas to remain from damage. Any damage to the roads caused by this subcontractor's

- scope of work will need to be repaired at their expense. If damage is not repaired, then Pepper Construction will make necessary repairs and will back charge.
- G. Include required mobilizations and demobilizations based upon provided project schedule.
- H. Includes daylight work hours maintain schedule.
- I. Placement of combustible fueled equipment to be coordinated with Pepper field supervision.
- J. Prior to site mobilization provide written plan for review of proposed equipment utilized to load and remove materials from roof. Plan to be reviewed by Pepper Safety department.
- K. Subcontractor has reviewed the project schedule and included all required temporary conditions to complete installation as defined by specifications.
- L. Subcontractor to provide, install, and remove required temporary material to place over finished roof material for staging of materials. Temporary material to include of ³/₄" thick 4'x8 sheets of Southern yellow pine plywood with of 2" rigid foam board. Material shall be delivered to site trapped. Coordinate location of material with Pepper field superintendent.
- M. Subcontractor to provide and install a temporary roof utilizing EPDM material. Weigh down with pavers and/or screw down as necessary.
- N. Prior to substantial completion coordinate with Pepper Construction to provide a final clean of roof system.
- O. Provide and deliver to site required spare parts for owner's attic stock. Ensure all items are counted and a transmittal is provided with each delivery. Coordinate with Pepper.
- P. Subcontractor acknowledges Site Logistics plan included in bidding documents and will utilize this plan as a reference for what is intended and expected from Pepper Construction. Subcontractor is given authority to make minor adjustments, with prior approval from Pepper superintendent to the site logistics plan where means of efficiency for the project can be achieved. Subcontractor acknowledges that if the plan is adjusted, and the result of the adjustment increases the scope of work for either Pepper or any other subcontractor onsite, subcontractor is subject to a back charge as may be required.
- Q. Subcontractor shall provide all required safety carts for tie off when working on roof.
- R. Subcontractor to provide and maintain required equipment and certified operator to hoist material to roof.
- S. Subcontractor to include all labor, materials, tools, equipment, and supervision necessary to complete the roofing scope of work.
- T. Contract includes the furnish and install required for roof and flashing scope including but not limited to the following items as shown on the project drawings and noted on project specifications:
 - 1. Roofing Membranes
 - 2. Roof Insulations
 - 3. Vapor Barrier

- 4. Pre-Molded Units Around Penetrations
- 5. Flashing
- 6. Trims
- 7. Gutters and Downspouts
- 8. Metal Termination Bars & Battens
- 9. Roof-edge Fascia
- 10. Copings
- 11. Walkways
- U. Provide submittals as indicated in the specifications.
- V. Provide product data as indicated in the specifications.
- W. Provide all required temporary conditions necessary for staging/storing of materials as identified in project documents.
- X. Include all required cleaning of permanent materials that have become soiled prior to erection as defined in specifications.
- Y. Complete counter flashing, PVC roofing system, and accessories to complete a thermal tight and watertight seal around roof hatch.
- Z. At penetrations through roof including but not limited to roof drains, duct, pipe, fall protection anchors provide all required pre-molded seals, clamps, flashing, trim, membrane, mastics/sealants, and insulation to uniformly to complete roofing system.
- AA. Complete install of roofing system with proper slopes and elevation changes as defined by project documents.
- BB. Prior to ordering of any manufactured pre-molded units coordinate sizing with other subcontractors approved shop drawings.
- CC. Complete required preparations including but not limited to cleaning substrates, installing temporary covers over existing items such as vents and drains from becoming clogged. Removal of temporary conditions to occur after roofing scope is completed.
- DD. Complete testing of roof system to confirm slopes and drain patterns do not allow for ponding. Include hoses/fittings, labor, and supervision to perform test and required clean-up.
- EE. Contract includes the furnish and install required for joint sealants for this scope of work.
- FF. Provide submittals as indicated in the specifications.
- GG. Provide product data as indicated in the specifications.
 - 1. Provide and complete joint sealants as it relates to this subcontractor's scope including but not limited to flashing, trims, and roofing materials (PVC & penetrations through system). In locations where other trades materials meet up with this subcontractor's scope of work, it shall always be this subcontractor's responsibility to complete the Joint Sealant.
- HH. Subcontractor to furnish and install roof hatch. Roofing subcontractor to provide and install all blocking, trims (interior & exterior), flashing, and roof hatch system complete.

- II. Include any costs associated with the visual, stand-alone mockup per 01 45 10.
- JJ. Provide separate submittal/shop drawings for the building mockup. This will require an early, separate delivery of mockup material in advance of the building material. Any additional shipping/freight charges, mobilizations, equipment, etc. to erect the mockup are to be included in this bid.
- KK. Per specification section 07 71 00, this subcontractor is responsible to furnish and install all manufactured copings, drip edges, gravel stops, roof fascias, and counterflashing systems. Per section 2.05 copings to be a custom color.

1.4 EXCLUSIONS

- A. The following items have been specifically excluded from this bid package:
 - 1. Payment and performance bond.
 - 2. Dumpsters
 - 3. Firestopping
 - 4. Parapet wood blocking

1.5 ALLOWANCES

- A. Composite cleaning crew: All subcontractors provide a laborer, on a weekly basis, to compile a composite crew that will be utilized for construction cleaning at the sole direction of Peppers' superintendent. Subcontractors will only be required to provide an individual only during the time the subcontractor or tiered subcontractors are performing work onsite. This shall be figured at 8 hours per week.
- B. Include a \$25,000 allowance for miscellaneous roofing work. Allowance work must be preapproved by Pepper prior to proceeding.

1.6 DESIGN ALTERNATES:

- 1. Alternate #1: Site Aggregate Path Alternate.
- 2. Alternate #2: Playground Surfacing Alternate.
- 3. Alternate #3: Telescoping Stands and Retractable Audience Seating Alternate.
- 4. Alternate #4: Motor Operated Roller Shades Alternate.
- 5. Alternate #5: Area Rugs Alternate.

1.7 CONSTRUCTION ALTERNATES:

- 1. Alternate #1: Site Concrete
- 2. Alternate #2: Joint Sealants, Acoustical Sealants, Firestopping

1.8 UNIT PRICES

A. Current Labor Rates (do not include overhead and profit).

1.9 BREAKOUTS

- A. 06 10 53 Miscellaneous Rough Carpentry (Partial)
- B. 07 21 00 Thermal Insulation (Partial)
- C. 07 54 19 Polyvinyl Chloride (PVC) Roofing
- D. 07 62 00 Sheet Metal Flashing & Trims (Partial)
- E. 07 71 00 Roof Specialties
- F. 07 72 00 Roof Accessories
- G. 07 76 00 Roof Pavers & Pedestals
- H. 07 92 00 Joint Sealants (Partial)
- I. Mockup

PRODUCTS (Not Used)

PART 2 - EXECUTION (Not Used)

END OF SECTION 01 00 00

EXHIBIT B – Bid Package 07 – Joint Sealants, Firestopping, Damproofing and Waterproofing, and Air Barriers

1.1 PROJECT DRAWINGS & SPECIFICATION

A. Contract to include the following drawings for reference:

Bartholomew Consolidated School Corporation – New Elementary #12 – Maple Grove:

- 1. For a full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
- 2. Scope Specific Specifications:
 - 1) 00 Procurement and Contracting Requirements
 - 2) 01 General Requirements
 - 3) 07 13 26 Self-Adhering Sheet Waterproofing
 - 4) 07 21 00 Thermal Insulation (Partial)
 - 5) 07 27 26 Fluid-Applied Membrane Air Barriers
 - 6) 07 62 00 Sheet Metal Flashing and Trim (Partial)
 - 7) 07 84 13 Penetration Firestopping
 - 8) 07 84 46 Fire-Resistive Joint Systems
 - 9) 07 92 00 Joint Sealants (Partial)
 - 10) 26 05 00 Common Work Results For Electrical (Partial)

1.2 PROJECT SPECIFIC CLARIFICATION

A. See attached Exhibit B.1

SCOPE SPECIFIC CLARIFICATIONS

1.3 Joint Sealants

- A. Furnish and install industrial joint filler (option 1 OR option2) at all control joints and construction joints in slabs on grade. If flexible epoxy joint filler option is selected (option 1), subcontractor must adhere to installation timeframe requirements and post occupancy return and infill as outline in the specifications.
- B. All metal flashing seams, laps, penetrations, etc. noted in the project documents to be sealed are by each subcontractor installing the flashing and are not included in this scope of work. Reference (04 22 00, 3.10, B., 4.) for example.
- C. This scope of work includes all joint sealants at masonry required by the project documents.
- D. Exterior expansion joint covers are included in this scope of work. This scope includes furnishing and installing a complete expansion joint cover system including but not limited to: mockup, cover, anchors, accessories, moisture barriers, etc.
- E. Joint sealants at window roller shades are included as part of this scope of work.

- F. Non-integral joint sealants at metal casework and countertop fixtures are included as part of this scope of work.
- G. Subcontractor to furnish and install all components required as part of this specification section to supply a complete scope unless explicitly indicated otherwise in this scope of work. This includes all interior and exterior joint sealants unless specifically noted to be excluded.
- H. Proper cleaning, priming, and other preparation of joint substrates for proper sealant applications and protection of adjacent surfaces during installation to prevent staining or damage to adjacent surfaces is included in this subcontract.
- I. Compatibility and paint ability of products considered in each application where applicable.
- J. Provide "WET CAULK" signage anywhere caulking is being completed and remove signage once caulking is cured to the touch.
- K. Furnish and install complete systems including spray foam, backer rod, sealant, etc. at all sealant joint locations in the project documents except for joints touching precast panels and exterior stone veneer panels. Precast-to-precast joints and precast to other substrate joints will be furnished and installed by BC-03 Precast subcontractor.
- L. Joint sealants at hollow metal frames are included as part of this scope of work. This includes sides, head, and base of frame at all solid surface locations. Frames are not caulked at carpeted locations.
- M. Joint sealants at access door frames are included in this scope of work.
- N. Primary and secondary exterior sealant joints at aluminum framed entrances, storefronts, curtainwalls, and punched openings are by BC-05 subcontractor. All other sealant joints at these locations are included to be furnished and installed as part of this scope of work (interior joints from glazing system to adjacent wall systems for example).
- O. Joint sealants at integrated exterior mockups are included in this scope of work.
- P. All testing and any required observation of tests, recording of tests, and reporting of tests required in the project documents for joint sealants furnished and installed by the BC-07 Joint Sealants subcontractor are included in this subcontract.
- Q. Furnish and install all sealant joints for plumbing fixtures.
- R. Furnish and install all sealant joints for drinking fountains and water coolers.
- S. Furnish and install all joint filler at concrete paving per the project documents. This includes joint filler at isolation joints.
- T. Furnish and install all sealant joints, backer material, primers, etc. for a complete system at all concrete paving joint sealant locations.

- U. Subcontractor to ensure during installation of joint sealant at counter tops and backsplashes sealant is installed wide enough as to not crack i.e. larger than a 1/16" to allow for expansion and contraction. Failure to complete in this manor will result in removal and replacement.
- V. Sealant at substrate connections for panel signage furnished and installed as a part of this subcontract.

1.4 Firestopping

- A. Subcontractor to include all labor, materials, tools, equipment, and supervision necessary to complete the fire stopping.
- B. Subcontractor to provide and complete coordination with all trades work creating a penetration as identified in the project documents and codes as identified to be fire stopped (i.e., fire walls, fire barrier walls, smoke-barrier walls, and fire partitions, shafts, floor penetrations, and etc.). Subcontractor to provide and complete fire stopping at all identified locations complete.
- C. Subcontractor to include Hilti CFS-BL Firestop Blocks for floor penetrations that due to sizing of penetration in comparison to MEP system going through floor cannot be "stuffed and sprayed".
- D. Subcontractor to provide and complete install of all the required accessories but not limited to slag-wool-fiber insulation, rock-wool-fiber insulation, sealants, fire-rated form board, fillers for sealants, temp. forming materials, primers, collars, and Hilti sleeves.
- E. Subcontractor is responsible for obtaining all required EJs and formally submitting through prior to installation of a system that does not fall under "standard" details.
- F. Subcontractor to provide and install required amount of filler materials based upon the project documents. Filler materials to include all of the following items but not limited to cast-in-place firestop devices, latex sealants, firestop devices, intumescent composite sheets, intumescent putties, intumescent wrap strips, mortars, pillows/bags, silicone foams, and silicone sealants.
- G. Subcontractor to provide and complete required preparations called out in project documents and in accordance with product requirements. This shall include but not limited to cleaning of openings, priming, and taping of surfaces not to receive fire stopping.
- H. Subcontractor is responsible for all fire stopping requirements at curtain wall, storefront, and perimeter of wall systems.
- I. Subcontractor will be required to perform a first in-place review with Pepper Quality team of fire stopping at head of wall and vertical wall section. This review must be completed prior to proceeding past the first 25'-0" LF. Upon review subcontractor will be responsible for correcting all identified issues. Once corrections are made Pepper Quality shall be called back out to review. Upon all items being addressed and corrections approved subcontractor shall be held to match rest of project install to meet / exceed this first in-place installation. Failure will result in removal and replacement of areas not meeting requirements at no additional cost to project.
- J. Subcontractor to complete set up and removal of all required temporary conditions to ensure excess fire stopping, fire proofing, and other systems materials do not go on other trades installed

materials. Failure to protect other systems from damage or being coated from installation of fire stopping or other system will result in subcontractor being formally back charged to have effected trades correct or clean.

- K. Provide and complete install of labeling at each penetration as identified in the project documents. This includes but is not limited to stenciling of rated wall systems and labeling of penetrations and rated assemblies.
- L. Subcontractor is responsible for supply and install of any "putty pads" for systems in walls where applicable.

1.5 Damproofing & Waterproofing

- A. Subcontractor has reviewed project schedule and included all required temporary conditions to complete this scope of work during the time of year indicated and has included in proposal appropriate materials that can be placed on concrete within 72 hours of pouring concrete (not weeks) and can be installed down to 20 degrees.
- B. It will be this subcontractors' responsibility to protect the existing paved areas, sidewalks, curbs, landscaped areas to remain from damage. Any damage to the roads caused by this subcontractor's scope of work will need to be repaired at their expense. If damage is not repaired, then Pepper Construction will make necessary repairs and will back charge.
- C. Subcontractor to in addition of coating exterior side of elevator pits to also include coating of Masterseal 581 cementitious coating of pit walls, floor, and sump area. Subcontractor to include general clean and prep of pit
- D. Subcontractor to provide all required temporary ventilation as required for the install of scope.
- E. Contract includes the furnish and install required for cold fluid-applied waterproofing scope including but not limited to the following items as shown on the project drawings and noted on project specifications:
 - 1. Protection Course
 - 2. Waterproofing
 - 3. Drainage Panels
 - 4. Temporary Protection
- F. Provide submittals as indicated in the specifications.
- G. Provide record drawings as indicated in the specifications.
- H. Provide product data as indicated in the specifications.
- I. Provide and complete providing of waterproofing accessories including all of the following but not limited to primer, flashing, membrane-reinforcing fabric, joint reinforcing strip, joint sealant, and backer rod.
- J. Provide and complete waterproofing for all areas and applications identified in the project documents.

- K. Provide and complete preparation including all of the following but not limited to cleaning, masking off and providing temporary coverage for in place materials in the surrounding area, and removal and patching of substrates (per project documents and manufactures requirements).
- L. Subcontractor to provide all required coordination with concrete/masonry subcontractor for install of materials prior to back fill occurring.
- M. Subcontract includes the furnish and install required for thermal insulation scope including but not limited to the following items as shown on the project drawings and noted on project specifications:
 - Foundation Wall Insulation
- N. Provide and complete install of required foundation wall insulation as identified in the project documents.
- O. Contract includes the furnish and install required for fluid-applied membrane air barrier scope including but not limited to the following items as shown on the project drawings and noted on project specifications:
 - 1. Air-Barrier System
 - 2. Patching Existing Conditions
 - 3. Terminations & Transitions
 - 4. Temporary Protection
- P. Provide and complete all the following accessories but not limited to primers, transition/termination strips, joint reinforcing fabric and strips, joint sealants, counterflashing strips, flashing sheets and metal termination bars, termination mastic, substrate patching, adhesives, tapes, foam sealants, and lap sealants.
- Q. Subcontractor to provide and complete coordination with other trades scopes penetrating through air barrier to ensure all locations are properly sealed according to project documents and material manufactures requirements. Subcontractor to complete install of barrier around these penetrations to incorporate them into the system.
- R. Subcontractor to ensure that all materials are secured and during backfill process, any materials not properly supported or fully adhered will need to be repaired or replaced by this subcontractor at no additional cost to the project.

1.6 EXCLUSIONS

- A. The following items have been specifically excluded from this bid package:
 - 1. Payment and performance bond.
 - 2. Full time, non-working safety professional.
 - 3. Precast panel joints in their entirety (spray foam, backer rod, sealant, etc.). This includes precast-to-precast joints and precast to other substrate joints.

1.7 ALLOWANCES

- *Allowance funding may be removed by Pepper Construction at any point within the project at the sole discretion of Pepper Construction. Funds that have already been agreed to and have been spent from an allowance are no longer subject to removal.
- A. Composite cleaning crew: All subcontractors provide a laborer, on a weekly basis, to compile a composite crew that will be utilized for construction cleaning at the sole direction of Peppers' superintendent. Subcontractors will only be required to provide an individual only during the time the subcontractor or tiered subcontractors are performing work onsite. This shall be figured at 8 hours per week.
- B. Provide \$15,000.00 allowance for additional joint sealants above and beyond those identified.

1.8 DESIGN ALTERNATES

- 1. Alternate #1: Site Aggregate Path Alternate.
- 2. Alternate #2: Playground Surfacing Alternate.
- 3. Alternate #3: Telescoping Stands and Retractable Audience Seating Alternate.
- 4. Alternate #4: Motor Operated Roller Shades Alternate.
- 5. Alternate #5: Area Rugs Alternate.

1.9 CONSTRUCTION ALTERNATES

- 1. Alternate #1: Site Concrete
- 2. Alternate #2: Joint Sealants, Acoustical Sealants, Firestopping

1.10 UNIT PRICES

A. Current labor rates provided at time of bid. Updated rates to be provided each year/at time of updates.

1.11 POST AWARD NOTES

A. None.

PRODUCTS (Not Used)

PART 2 - EXECUTION (Not Used)

END OF SECTION 01 00 00

PART 1 - GENERAL

1.1 PROJECT DRAWINGS & SPECIFICATION

A. Contract to include the following drawings for reference.

Department of Administration, Public Works – Indiana State Archives Project No. 49020034-22-009-D1

- 1. For full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
- 2. Scope Specific Specifications:
 - 1) 00 Procurement and Contracting Requirements
 - 2) 01 General Requirements
 - 3) 14 24 00 Hydraulic Elevators

1.2 PROJECT SPECIFIC CLARIFICATIONS

- A. Each subcontractor will have 10 business days after receiving the subcontract to review, sign off, and return to Pepper. Failure to complete this process in the allotted time frame will result in the termination of this subcontract. At that time Pepper will begin interviewing the next low bidder for this bid package.
- B. The subcontractor will follow the project schedule timeline for execution of submittals. Failure to complete submittals per the project schedule will be grounds for withholding all payments.
- C. Subcontractor to review and confirm with vendors and manufacturers during supply of submittals that no products being submitted on are being discontinued within the next year. Additionally, subcontractor to confirm and provide on submittal current lead times.
- D. All substitution requests must follow formal procedures in spec section 00 26 00. No deviation from this section will be accepted.
- E. Each subcontractor has the responsibility to immediately examine the contract documents for errors, inconsistencies, or omissions. Any such errors, inconsistencies or omissions shall immediately be brought to the attention of Pepper Construction Company.
- F. Care will be taken by each subcontractor to provide exemplary workmanship. Work that is sloppy, and work that is not installed in a neat, workmanlike manner, will be rejected by Pepper, and will be re-worked at the subcontractor's expense.
- G. The Schedule of Values submitted as part of this bid must break out all allowances as separate line items.
- H. Subcontractor superintendents/lead foreman and project managers are required to have a paid subscription to PlanGrid for the duration of the project. All current drawings, specifications, RFIs, submittals, and reports will be coordinated through the PlanGrid program. If the subcontractor

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does not comply a deduct of \$4,000.00 will be accessed to the subcontractor in the form of a formal change order. The subcontractor must have this in place prior to first pay application being approved in the form of a receipt.

- I. Superintendents/lead foreman are required to have an IPad or equivalent tablet in order to participate in punch lists and as-builts onsite through PlanGrid. If the subcontractor does not comply a deduct of \$2,000.00 will be accessed to the subcontractor in the form of a formal change order. No exception or deviations will be accepted.
- J. All subcontractor employees and tiered subcontractors performing work onsite will be required to go through a site specific safety orientation prior to gaining access to the site. This orientation will be held 5 days a week Monday through Friday through the duration of the project. Orientation will begin at 7:30am and last no longer than 1 hour. Individuals will only be required to complete orientation once during the duration of the project. At the completion of the training individuals will receive a numbered site-specific decal that must be worn on their hard hat.
- K. Site hours of operation will be 7:00am to 5:00pm, Monday through Friday. Subcontractors required to work weekends to maintain project schedule or formally requested to perform work on the weekends or off hours will be handled on an individual basis.
- L. Subcontract includes daylight work hours and 2nd shift as required to maintain project schedule. Each subcontractor will provide resources to properly fulfill their schedule requirements. Any premium time needed to maintain their commitment will be at the subcontractor's expense.
- M. Tobacco (smoking and or vape and chewing tobacco) are not permitted on the Property (including but not limited to jobsite, IDOA parking garage, and flat lot(s) staging areas. Subcontractor employees caught in violation will be removed from the site immediately for the day on the first offence and on the second offence removed from the project permanently for the remainder of the project.
- N. Project parking will be at the Indiana Government Center North Garage (address 220 N. Senate Ave., Indianapolis, Indiana 46202). Parking will be on the roof deck level only (this does not include the ramp section). Subcontractors will receive a numbered subcontractor badge to gain access in and out of the garage. Subcontractors will be required to turn in their parking badge at any point in time on the project when they will not be back onsite within the next business days. Subcontractors who do not turn in their badge within the allotted time frame will be charged \$100.00 per badge in the form of a formal deductive change order.
- O. The subcontractor has reviewed and agrees to safety requirements in the safety handbook and upon signing off of the subcontract are required to submit project specific safety plan.
- P. The Subcontractor is to include all labor, material, tools, equipment, supervision necessary to complete fully this scope of work for the Indiana State Archives project.
- Q. The subcontractor has reviewed all quality requirements, signed off on the quality agreement, and submitted a project specific quality plan. All these items must be submitted and approved prior to approval of the first pay application.
- R. All quality items must be completed or responded to within 5 business days. (Must have photo documentation of repair/issue) Failure to complete this process in the designated time frame will result in any current payments being withheld until completed.

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- S. Preinstallation Meeting: Pepper will lead a preinstallation meeting with each Trade Partner prior to starting work. The Trade Partner Project Manager and Foreman (on site) is required to attend this meeting. During this meeting, the team reviews the scope of work, submittals, plans, specifications, manufacturer's requirements, Trade Partner Quality Plan, and lessons learned as applicable. Note that the sub, preinstallation meeting is by scope, not necessarily trade partner (some trade partners will have multiple preinstallation meetings). Preinstallation meetings last approximately one to three hours depending on the complexity of the scope of work. Subcontractors may be required to attend additional preinstallation meetings with affected/associated scopes as outlined in the project specifications.
- T. Trade Partners that repeat issues or otherwise demonstrate a lack of expertise or understanding, will be required to participate in any training deemed necessary by Pepper's Director of Quality Management to bring the Trade Partner expertise to a level that will enable them to comply.
- U. Labor rate escalation is included with subcontractors base bid for the duration of the project as determined by the project schedule. The subcontractor must provide current labor rates and bid time that do not include any mark up or overhead. For duration of project updated labor rates for any additional or deduction of work must be provided to Pepper to keep on file.
- V. All change orders must be presented utilizing the provided form. All change orders presented that do not utilize this form will be rejected and sent back to the subcontractor to correct.
- W. All pay application requests must include an updated change order log (standard form will be provided by Pepper Construction). Failure to record all costs on the change order log at time of submission by subcontractor will be accepted as formal notification to Pepper Construction, Owner, and Design Team all items have been accounted. No backdated tickets or change orders will be accepted.
- X. Each subcontractor has the responsibility to immediately examine the contract documents for errors, inconsistencies, or omissions. Any such errors, inconsistencies or omissions shall immediately be brought to the attention of Pepper Construction.
- Y. All costs (addition or deduction) related to ASIs or RFIs must be formally submitted within 10 business days of formal notification to subcontractors sent out by Pepper Construction. Failure to submit associated costs within this time frame will be considered legal confirmation that there are no cost impacts to the subcontractor.
- Z. Include multiple mobilizations and demobilizations to the jobsite as required to meet the provided project schedule included in the bid package.
- AA. Subcontractor pricing is to include all work that is inferable from the drawings and specifications. All questions shall be submitted prior to bid day. Submission of bid is considered formal acceptance and no future change order will be issued for any gaps.
- BB. The subcontractor acknowledges and agrees that there is limited staging and storage space for the project. The subcontractor will deliver material and equipment only on an as needed basis. All deliveries will be coordinated with Pepper Constructions field staff.
- CC. The project is sales tax exempt. All subcontractors should exclude sales tax in their base bid and from any future change orders. Sales tax exemption information can be found in 00 72 16 General Sales Tax Exemption Certificate.

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- DD. Subcontractors shall provide all required insurances including General Liability (GL).
- EE. Cyber and pollution insurance per project documents must be provided by the subcontractor with no exceptions taken. No waivers will be accepted.
- FF. The subcontractor is responsible for reviewing delivery logistics and sizing of trucks for deliveries. Deliveries that occur outside of project designated hours unless coordinated ahead of time will be refused until project is next open.
- GG. The subcontractor acknowledges Site Logistics plan included in bidding documents and will utilize this plan as a reference for what is intended and expected from Pepper Construction. The subcontractor is given authority to make minor adjustments, with prior approval from Pepper superintendent to the site logistics plan where means of efficiency for the project can be achieved. Subcontractor acknowledges that if the plan is adjusted, and the result of the adjustment increases the scope of work for either Pepper or any other subcontractor onsite, subcontractor is subject to a back charge as may be required.
- HH. Each subcontractor is responsible for their material and equipment. Any damages or loss of material or equipment will not be reimbursed by the project. If another subcontractor causes damage or loss a formal ticket must be issued and signed by both subcontractors. Upon completion of this step Pepper will issue formal change orders to associated subcontractor(s).
- II. Failure to protect staged materials and in place work following project document requirements and this scope sheet will result in subcontractors' responsibility to replace at no cost to the project.
- JJ. All staging of equipment unless specifically called out in project documents must be stored off site.
- KK. Each subcontractor is responsible for portable units (trash cans, tippy dumpsters, etc.) for waste and transporting of these items to project provided trash and recycle dumpsters. (Pepper policy is nothing hits the floor)
- LL. The subcontractor is required to complete all layout and engineering as required to complete the scope. Layouts to be conducted by use of total station or equivalent system. Pepper to provide control points (three locations onsite and 2 locations per each level of building structure).
- MM. Subcontractor includes all traffic control as necessary pertaining to subcontractors' scope of work.
- NN. It will be this subcontractors' responsibility to protect the existing paved areas, sidewalks, curbs, landscaped areas to remain from damage. Any damage to the roads caused by this subcontractor's scope of work will need to be repaired at their expense. If damage is not repaired, then Pepper Construction will make necessary repairs and will back charge. (Subcontractors responsibility to clean all roadways/sidewalks/paved areas associated with their work as daily or as directed by Pepper superintendent.)
- OO. Subcontractor to provide all dust control measures (i.e., excavation activities, demo, drywall finishing, drilling, etc.) related to this Scope of Work.
- PP. BIM PCCI Trade Coordination Protocol Document has been included in the project manual and necessary provisions and cost are to be covered by subcontractor.

01 00 01-4 BP-08: Elevators

- QQ. Provide and deliver to site required spare parts for owner's attic stock. Ensure all items are counted and a transmittal is provided with each delivery. Coordinate with Pepper. Final payment will not be provided until all items are turned over.
- RR. All materials are to be elevated on dunnage and covered during storage. Includes maintenance of both dunnage and covers.
- SS. Be present and unload, including equipment, dunnage, and labor, off-load all materials associated with this scope of work. Gates must be closed and re-secure after each vehicle entering and leaving the site. Failure to adhere to this requirement may result in back charges at Pepper's discretion.
- TT. The above and following scope of work is intended to be general in nature. The intention is to have the successful subcontractor perform all related work shown on the contract documents other than those items specifically indicated below to be excluded. Should the documents disagree in themselves, or with each other, the scope of work shall be based on the most expensive combination of quality and quantity of work indicated.
- UU. Provide verification/acceptance of existing conditions prior to work starting. Starting work is understood as acceptance of existing conditions/substrate.
- VV. All operators must be certified. Provide all certifications for on-site operators prior to individual arriving on site.
- WW. Include any task specific temporary lighting required for this scope of work based on schedule and jobsite hours.
- XX. Provide all testing required per the project specifications related to this scope of work unless explicitly noted as owner testing.

1.3 SCOPE SPECIFIC CLARIFICATIONS

- A. All lifts shall maintain a diaper for duration of being onsite and be free of any fasteners in tires. Wheels shall be non-marking.
- B. Upon completion of drywall hanging on each floor lifts will be required to be removed from that floor for the duration of the project. From that point moving forward for remainder of project subcontractors must only utilize ladders and scaffold systems.
- C. Placement of required equipment to be coordinated with Pepper field supervision.
- D. BIM PCCI Trade Coordination Protocol Document (00 72 15) has been included in the project manual and necessary provisions and cost are included in this scope.
- E. Provide and deliver to site required spare parts for owner's attic stock. Ensure all items are counted and a transmittal is provided with each delivery. Coordinate with Pepper.
- F. Provide shop drawings within 10 working days of award notification showing proper location of any embedded steel for shaft constructions, including for hoist beam.

01 00 01-5 BP-08: Elevators

- G. Any in-wall rough in information for buttons/notification lights/etc. to be included in shop drawing submittal.
- H. Provide embeds and embed drawings within 10 working days of award notification. If not provided, it is the responsibility of this subcontractor to drill and epoxy anchors required for this scope of work. Turn over embeds for install by BP-02A Concrete Structure subcontractor. Include coordination with installing contractor to ensure proper locations/depths/etc. are achieved. Hoist beam embeds by others, all other embeds for elevator/elevator equipment by BP-08.
- I. Subcontractor is responsible for completing all necessary drawings, permit application forms, local jurisdiction inspection coordination, on site personnel for inspections/testing, and any inspection/permitting/plan review fees required for this scope of work.
- J. All required sleeves, cores, boxouts, and saw cutting will be indicated on the shop drawings for structural engineer's review prior to placement or cutting.
- K. Provide all temporary barricades at each elevator opening. Removal when complete to be included by this contractor.
- L. Provide screening inside the shaft to protect any objects from falling above while your work is being completed prior to cab installation.
- M. Provide an operator to run the car to allow others to complete firestopping work within the elevator shaft.
- N. Provide all platforms required to complete this scope of work.
- O. All safety guardrails to be removed and replaced daily. Barricade off area while safety rails are down.
- P. Perform all final adjustments.
- Q. Provide all factory authorized start up as specified.
- R. Provide maintenance service as indicated in the Documents.
- S. Include all required signage including inside the cars and at each landing.
- T. Elevator subcontractor to set sills at doors. BP-02B Building Masonry subcontractor to complete grout in sills after set.
- U. Elevator subcontractor to coordinate locations of other trades work in shaft. This coordination is included in this contract.
- V. BP-11A Electrical subcontractor will provide fire alarm wiring to elevator controller. BP-08 Elevator subcontractor to land wiring in control panel.
- W. Provide and complete all identified finishes complete as identified in the project specifications including but not limited to front walls, car fixtures, reveals, door sills, ceilings, handrails, floor prep, wall panels, ventilation fan, signal equipment, and hall annunciator.

01 00 01-6 BP-08: Elevators

- X. Progress and final testing and inspections required by the contract documents and Governmental Authorities having jurisdiction. Personnel are included as required to be onsite during all inspections and testing this includes having proper trade personnel onsite to operate the elevator.
- Y. Pit ladder to be provided and installed by BP-08 elevator subcontractor.
- Z. Elevator rails provided and installed by BP-08 elevator subcontractor.
- AA. Steel shapes for supporting elevator door sills (and any required anchors/accessories/etc.) to be furnished and installed as part of this subcontract (1.2, A, 8).
- BB. Elevator pit ladders and any associated accessories to be furnished and installed as part of this subcontract (1.2, A, 11).
- CC. Hoist beam and embeds for hoist beams are furnished and installed by others. Coordination and information for hoist beam to be supplied as part of the submittal package as outlined previously in this subcontract.
- DD. Embeds for elevator equipment including attachment plates, angle brackets, etc. for supporting guiderails and any other embeds required except for the hoist beam are to be furnished as part of this subcontract and turned over to BP-02A Concrete Structure subcontractor.
- EE. Subcontractor to furnish and install all components required as part of this specification section along with any necessary removal associated to supply a complete scope unless explicitly indicated otherwise in this scope of work.
- FF. Provide continuing maintenance proposal in the form of a standard one-year maintenance agreement, starting on the date that initial maintenance service is concluded. This is in addition to one year maintenance service outlined in the specifications that are included in this subcontract.
- GG. Furnish all inserts, sleeves, block outs, elevator equipment with integral anchors, and other items embedded in concrete for elevator equipment to be installed by Concrete Structure subcontractor. Coordinate install and turnover of said items with Concrete Structure subcontractor.
- HH. Coordinate locations and dimensions of work specified in other sections that relate to Elevators including but not limited to: sumps, floor drains in pits, entrance subsills, hoist beams, electrical service, outlets, lights, and switches in hoist ways and pits.
- II. Car flooring furnished and installed by others. Car substrate properly prepped to receive resilient flooring called out in the project documents as part of this subcontract.
- JJ. Provide mounted inspection certificate in each car.
- KK. Provide hooks for protective pads and one complete set of full height protective pads for each cab with hooks.
- LL. Include necessary provisions for elevators to be tied to emergency/backup/standby power. Electrical subcontractor to bring power to local panel/junction box. Final termination to elevator panel/system to be included as part of this subcontract.

01 00 01-7 BP-08: Elevators

- MM. Owner training and operation checks as outlined in the specifications are included as part of this subcontract.
- NN. Include in your bid material, labor and equipment costs to meet the project schedule. No additional costs will be given for material escalation, labor burden increases, commodity increases, etc.

1.4 EXCLUSIONS

- A. The following items have been specifically excluded from this bid package:
 - 1. Payment and performance bond.
 - 2. Full time, non-working safety professional.
 - 3. Finish flooring in elevator car.

1.5 ALLOWANCES

A. All allowances shall only be approved for use or deduction from subcontract by Pepper Construction through written notice. At the end or anytime at Pepper Constructions discretion any and all unused allowances can be deducted from the subcontract through a formal change order.

1.6 ALTERNATES

1. Alternate #1:

1.7 UNIT PRICES

- A. Current Labor Rates (do not include overhead and profit).
- B. Equipment Rates

1.8 BREAKOUTS

A. Provide associated alternate/credit if onsite lull would be provided by the project and not carried by this subcontractor. Lull to be operated by Pepper and subcontractor responsible for rigging, spotter, and unloading. Project provided lull would be a 10k unit.

PRODUCTS (Not Used)

PART 2 - EXECUTION (Not Used)

END OF SECTION 01 00 00

01 00 01-8 BP-08: Elevators

EXHIBIT B – Bid Package 09 – Plumbing

PART 1 - GENERAL

1.1 PROJECT DRAWINGS & SPECIFICATION

- A. Contract to include the following drawings for reference.
 - 1. For a full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
 - 2. Scope Specific Specifications:
 - 1) 00 Procurement and Contracting Requirements
 - 2) 01 General Requirements
 - 3) 05 50 00 Metal Fabrications (Partial)
 - 4) 08 31 13 Access Doors (Supply Only)
 - 5) 11 30 13 Residential Appliances
 - 6) 11 40 00 Foodservice Equipment
 - 7) 12 32 16 Manufactured Plastic-Laminate- Faced Casework (Partial)
 - 8) 12 36 61 Solid Surface Countertops (Partial)
 - 9) 20 00 10 Common Work Results for Fire Suppression, Plumbing and HVAC
 - 10) 20 00 50 Common Materials and Methods for Fire Suppression, Plumbing and HVAC
 - 11) 20 00 60 Common Pipe, Valves, Fittings and Hangers for Fire Suppression, Plumbing and HVAC
 - 12) 20 01 80 Common Insulation for Plumbing and HVAC
 - 13) Division 22 Plumbing

1.2 PROJECT SPECIFIC CLARIFICATIONS

A. See attached exhibit B.1

1.3 SCOPE SPECIFIC CLARIFICATIONS

- A. Contract includes the furnish and install required for plumbing scope including but not limited to:
 - 1. Floor Drains
 - 2. Mop Basins
 - 3. Fixtures & Trims
 - 4. Electric Water Coolers
 - 5. Hose Bibs and Hydrants
 - 6. Washer Boxes
 - 7. Ice Maker Boxes
 - 8. Domestic Cold & Hot Water Piping
 - 9. Storm Piping
 - 10. Sanitary & Vent Piping
 - 11. Natural Gas Piping
 - 12. Water Softeners
 - 13. Water Heaters

- 14. Thermostatic Mixing Valves
- 15. Circulating Pumps
- 16. Expansion Tanks
- 17. Back Flow Preventors
- 18. Water Hammer Arrestors
- 19. Circuit Setters
- 20. Valves, Gauges, Thermometers & Accessories
- B. Provide submittals as indicated in the specifications.
- C. Provide record drawings as indicated in the specifications.
- D. Provide equipment delivery schedule at pre-construction meeting with all required information as identified in specifications.
- E. Provide with bid required form from specifications showing subcontractors, manufacturers, and suppliers of each item listed.
- F. Provide product data as indicated in the specifications.
- G. Provide all required coordination with domestic water piping brought into the new building by the Earthwork/Site utilities contractor. Earth work subcontractor to bringing water into the new building as shown and terminating with a blind flange at and above 1'-0" above the floor. Plumbing subcontractor to provide and confirm layout.
- H. Provide all required coordination with sanitary and storm piping brought up to the new building by the Earthwork/Site utilities contractor. Earthwork subcontractor to bring sanitary piping within 5'-0" of the new building and terminate with a blind flange. Plumbing subcontractor to provide and confirm layout.
- I. Provide and complete disinfecting of required piping. Include install and removal of all required piping and accessories to complete this process. Coordinate testing with Pepper field supervision and provide all required documentation (including test results) for review for project team.
- J. Coordinate with all in wall blocking subcontractor to appropriately layout required locations and blocking sizing.
- K. Provide and complete all required plumbing connections to other trades scope as identified in the project documents. Including but not limited to site subcontractors' pipelines to building,
- L. Provide and complete install of under slab piping, including excavation, pipe bedding, backfill, and compaction. Subcontractor responsible for confirming backfilled elevations match existing elevations. Any excess spoils to be hauled to a clean fill site.
- M. Coordinate with roofing subcontractor and include approved shop drawings indicating all penetrations through roofing system requiring manufactured pre-molded units or flashed around.
- N. Provide and complete all required insulating of pipes, valves, connections, fittings, and accessories.

- O. Provide and complete install of roof drains. Include but not limited to dome strainer, sump receiver, clamping ring, pipe, fittings, insulation, supports, hangers, and accessories. Coordinate with steel subcontractor, roofer, and Pepper on install sequence and box out area.
- P. Subcontractor is responsible for installing roof drain piping system complete. Including but not limited to pipe, connections, hangers/supports, insulation(s), labels, drain bodies (drain and overflow), cleanouts to create a complete system.
- Q. Per the equipment schedule provide plumbing rough-in for all equipment as required. Specifically include the following:
 - 1. Refrigerators/Freezers Furnished by General Trades, Final Connections by Plumbing Subcontractor.
 - 2. Washer/Dryer Furnished by General Trades, Final Connections by Plumbing Subcontractor.
- R. Provide and complete all rough-ins, connections to food service equipment, and installation of loose items provided by the BP-27 subcontractor as required in the project documents. Refer to 11 40 00 section 1.02 for additional information.
- S. Coordinate with concrete/masonry subcontractor to ensure all drains and other scope items are set prior concrete pours occur to allow for proper slope to be achieved. Include and complete all required temporary protection over pipe openings.
- T. Coordinate height of interior drains with finished flooring elevations.
- U. Include any framing and/or supports for plumbing equipment.
- V. Furnish only access doors for this scope of Work.
- W. Coordinate with BP-07 subcontractor to ensure all plumbing subcontractor's scope related items requiring acoustical sealants, joint sealants, and firestopping are completed.
- X. Coordinate all required concrete pads and curbs with building concrete and masonry subcontractor. Provide approved submittals and shop drawings to allow for concrete subcontractor to properly set. Ensure to provide and install all required sleeves, box outs, or other required pre concrete pour items are properly installed.
- Y. Coordinate with pre-cast concrete subcontractor to ensure all required plumbing subcontractors scope penetrations are included in pre-cast concrete approved shop drawings. For any coring in pre-cast panels written documented review must occur with included parties, A/E, pre-cast subcontractor, and Pepper. Subcontractor shall provide nonmetallic sleeves for penetrations through precast. Subcontractor shall coordinate and ship sleeves and drawing indicating the layout of sleeves directly to precast subcontractors' facility.
- Z. Subcontractor to review and follow mounting requirements identified in the metal's specifications and drawings. All overhead mounted to be attached to structural steel and not decking unless written approval is obtained.
- AA. Provide onsite start-up training for facility. Start up to be recorded to allow for personnel who are unable to attend to have for reference/deliverable to owner.

- BB. Provide and complete storage, handling, cleaning, and temporary protection of subcontractor's scope items as identified in project specifications.
- CC. Provide and install all required wall and ceiling location access panels for install by metal framing subcontractor. Panel shall match wall ceiling rating requirements per location. Coordinate locations and sizing with metal framing subcontractor and Pepper.
- DD. Provide and complete all required labeling, tagging, and identification marking of piping, valves, and equipment.
- EE. Subcontractor to supply shop drawings for all interior and exterior housekeeping pads, support pads, and curbs per contract documents for plumbing scope. Supply and install of pads, support pads, and curbs by Concrete subcontractor (BP-02A). Layout to be performed by concrete subcontractor and reviewed by plumbing subcontractor. Any additional pads or curbs not identified prior to bidding will be picked up by the plumber.
- FF. Subcontractor to coordinate all plumbing fixture cutouts with BP-21 Millwork subcontractor. For items requiring shop mounting (integral sinks for example), coordinate delivery with BP-21 Millwork subcontractor to avoid any delays in the project schedule.
- GG. All grease waste piping shall be schedule 40 cast iron, no hub piping as indicated on the project documents.
- HH. Subcontractor shall obtain all necessary permits required for this scope of work.
- II. Subcontractor shall be responsible for touch-up painting of any factory painted equipment. Any piping requiring painting shall be the responsibility of the BP-20 Painting and Wall Coverings subcontractor
- JJ. Subcontractor shall provide all vibration isolation as required by the project documents.
- KK. Provide assistance with the Owner's Commissioning Authority as required in the project documents.
- LL. Should the BP-01 Earthwork subcontractor encounter any existing plumbing lines underground that has not been disconnected and/or abandoned, BP-01 subcontractor shall report findings to Pepper construction. Make-safe and disconnection work will be completed by the plumbing subcontractor. The removal of the underground piping will still be included in the BP-01 subcontractor's scope of work.

1.4 EXCLUSIONS

- A. The following items have been specifically excluded from this bid package:
 - 1. Payment and performance bond.
 - 2. Full time, non-working safety professional.
 - 3. Interior and exterior housekeeping pads, support pads, and curbs per contract documents.
 - 4. Firestopping
 - 5. Joint Sealants
 - 6. Acoustical Sealants
 - 7. Dumpsters

8. Painting of Piping

1.5 ALLOWANCES*

- *Allowance funding may be removed by Pepper Construction at any point within the project at the sole discretion of Pepper Construction. Funds that have already been agreed to and have been spent from an allowance are no longer subject to removal.
- A. Composite cleaning crew: All subcontractors provide a laborer, on a weekly basis, to compile a composite crew that will be utilized for construction cleaning at the sole direction of Peppers' superintendent. Subcontractors will only be required to provide an individual only during the time the subcontractor or tiered subcontractors are performing work onsite. This shall be figured at 8 hours per week.

1.6 DESIGN ALTERNATES

- 1. Alternate #1: Site Aggregate Path Alternate.
- 2. Alternate #2: Playground Surfacing Alternate.
- 3. Alternate #3: Telescoping Stands and Retractable Audience Seating Alternate.
- 4. Alternate #4: Motor Operated Roller Shades Alternate.
- 5. Alternate #5: Area Rugs Alternate.

1.7 CONSTRUCTION ALTERNATES

- 1. Alternate #1: Site Concrete
- 2. Alternate #2: Joint Sealants, Acoustical Sealants, Fire Stopping

1.8 UNIT PRICES

A. Current Labor Rates (do not include overhead and profit).

1.9 BREAKOUTS

- A. Water Heaters
- B. Thermostatic Mixing Valves
- C. Circulating Pumps
- D. Expansion & Storage Tanks
- E. Water Softener
- F. Domestic Water Piping
- G. Sanitary & Vent Piping

- H. Roof Drains
- I. Storm Piping
- J. Pipe Insulation
- K. Natural Gas Piping
- L. Plumbing Fixtures
- M. Hose Bibs & Hydrants
- N. Floor Drains

PRODUCTS (Not Used)

PART 2 - EXECUTION (Not Used)

END OF SECTION 01 00 00

EXHIBIT B – Bid Package 10 – HVAC

PART 1 - GENERAL

1.1 PROJECT DRAWINGS & SPECIFICATION

- A. Contract to include the following drawings for reference.
 - 1. For a full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
 - 2. Scope Specific Specifications:
 - 1) 00 Procurement and Contracting Requirements
 - 2) 00 62 75 Inflation Reduction Act Breakout Form
 - 3) 01 General Requirements
 - 4) 05 50 00 Metal Fabrications (Partial)
 - 5) 08 31 13 Access Doors and Frames (Partial)
 - 6) 11 53 11 11 31 00 Residential Appliances
 - 7) 11 40 00 Foodservice Equipment
 - 8) 11 95 00 Kilns (Partial)
 - 9) 20 00 10 Common Work Results for Fire Suppression, Plumbing and HVAC
 - 10) 20 00 50 Common Materials and Methods for Fire Suppression, Plumbing and HVAC
 - 11) 20 00 60 Common Pipe, Valves, Fittings and Hangers for Fire Suppression, Plumbing and HVAC
 - 12) 20 01 80 Common Insulation for Plumbing and HVAC
 - 13) Division 23 Heating, Ventilating and Air-Conditioning (HVAC) Complete

1.2 PROJECT SPECIFIC CLARIFICATIONS

A. See attached exhibit B.1

- A. All lifts shall maintain a diaper for duration of being onsite and be free of any fasteners in tires. Wheels shall be non-marking.
- B. Include all necessary steel framing and supports for mechanical equipment.
- C. Include all HVAC related accessories for fire alarm system.
- D. Provide all access doors associated with this scope of Work. Subcontractor is responsible for identifying locations on drawing sheets on location access doors are to be installed. Installation to be by interior framing subcontractor.
- E. Contract includes the furnish and install required for heating, ventilating, and air-conditioning (HVAC) scope including but not limited to the following items as shown on the project drawings and noted on project specifications:

- 1. Hydronic Piping Systems
- 2. Ground-Loop Heat-Pump Piping
- 3. Pumps
- 4. Refrigerant Piping
- 5. HVAC Water Treatment
- 6. Metal Ducts
- 7. Air Duct Accessories
- 8. HVAC Power Ventilators
- 9. Air Terminal Units
- 10. Diffusers, Registers, Grilles, and Louvers
- 11. HVAC Gravity Ventilators
- 12. Breechings, Chimneys and Stacks
- 13. Packaged Air to Air Energy Recovery Ventilators
- 14. Direct Fired Make-up Air Units
- 15. Mini-Split Air Conditioners
- 16. Water-Source Heat Pumps
- 17. Duct Silencers
- 18. Electric Finned Tube Radiators
- 19. Electric Unit Heaters
- 20. Expansion Tanks and Air Separators
- 21. Trenched Fan-Coil Units
- 22. HVAC Instrumentation & Controls
- 23. Test, Adjusting, And Balancing
- 24. Filter Feeders
- 25. Glycol Makeup Units
- 26. Variable Frequency Drives
- 27. Drip Pans
- F. Provide submittals as indicated in the specifications.
- G. Provide record drawings as indicated in the specifications.
- H. Provide equipment delivery schedule at pre-construction meeting with all required information as identified in specifications.
- I. Provide with bid required form from specifications showing subcontractors, manufacturers, and suppliers of each item listed.
- J. Provide product data as indicated in the specifications.
- K. Coordinate with all in wall blocking contractor to appropriately layout required locations and blocking sizing.
- L. Subcontractor shall provide all required disconnects, switches, starters, variable frequency drives and all other means of controls related to all equipment under this package. Subcontractor shall coordinate with electrical subcontractor on bringing power to units. All low voltage (control cable) shall be provided and installed by HVAC subcontractor and follow project documents following manufactures requirements on cable.
- M. Provide and complete all required HVAC connections to other trades scope as identified in the project documents. Including but not limited to site subcontractors' pipelines to building,

- N. Include all HVAC trims at all thru-wall penetrations.
- O. Provide and complete install of under slab piping, including excavation, pipe bedding, backfill, and compaction. Subcontractor responsible for confirming backfilled elevations match existing elevations.
- P. Coordinate with roofing subcontractor and include approved shop drawings indicating all penetrations through roofing system requiring manufactured pre-molded units or flashed around.
- Q. Provide and complete all required insulating of pipes, valves, connections, fittings, and accessories.
- R. Coordinate with BP-07 subcontractor to ensure all plumbing subcontractor's scope related items requiring acoustical sealants, joint sealants, and firestopping are completed.
- S. Coordinate all required concrete pads and curbs with building concrete and masonry subcontractor. Provide approved submittals and shop drawings to allow for concrete subcontractor to properly set. Ensure to provide and install all required sleeves, box outs, or other required pre concrete pour items are properly installed.
- T. Subcontractor to review and follow mounting requirements identified in the metal's specifications and drawings.
- U. Provide onsite start-up training for facility. Start up to be recorded to allow for personnel who are unable to attend to have for reference/deliverable to owner.
- V. Provide and complete chemical treatment, pipe flushing, hydrostatic testing; including set up and removal of required temporary protection, testing ports, valves, pipe, gauges, and accessories. Include all required labor and supervision to complete test. Provide appropriate documentation of testing and submit to Pepper and identified required parties.
- W. Provide and complete storage, handling, cleaning, and temporary protection of subcontractor's scope items as identified in project specifications.
- X. Coordinate with pre-cast concrete subcontractor to ensure all required HVAC subcontractors scope penetrations are included in pre-cast concrete approved shop drawings. For any coring in pre-cast panels written documented review must occur with included parties, A/E, pre-cast subcontractor, and Pepper. Subcontractor shall provide nonmetallic sleeves for penetrations through precast. Subcontractor shall coordinate and ship sleeves and drawing indicating the layout of sleeves directly to precast subcontractors' facility.
- Y. Provide all required wall and ceiling location access panels for install by metal framing subcontractor. Panel shall match wall ceiling rating requirements per location. Coordinate locations and sizing with metal framing subcontractor and Pepper.
- Z. Provide and complete all required labeling, tagging, and identification marking of piping, valves, and equipment. Subcontractor to also label ceilings and access panels identifying valves and or other systems not visible.
- AA. Review, identify, and coordinate lintel locations, quantity, and sizing in shop drawings for Concrete/Masonry subcontractor to provide and install.

- BB. Provide and complete temporary use of new equipment to allow for conditioning of building following the standards identified in the specifications and for the duration indicated in the project schedule. Additionally, provide required cleaning and replacement of filters during the construction phase along with replacement of filters and cleaning through substantial completion.
- CC. Provide and complete insulating of all required duct, equipment, pipe, and accessories as identified in the project documents. Ensure items requiring coatings are completed and inspected prior to insulating.
- DD. Provide and complete all integration into building management system. This shall include but not limited to programing, connections, devices, calibration, and programs.
- EE. Provide and complete install of required drip pans for all piping and equipment completed under this scope in accordance with project documents.
- FF. Provide and complete all required test and demonstration of all life safety systems completed by this subcontractor operate correctly.
- GG. During construction, this subcontractor is responsible for providing and installing temporary filters. At project turnover/completion, this subcontractor is responsible for removing and dispose of all temporary filters and provide and install final filters at all locations.
- HH. Within 90 days of completing testing, adjusting, and balancing, perform additional testing and balancing to verify that balanced conditions are being maintained throughout and to correct unusual conditions as required in the specifications. Ensure that along with coordinating these reinspections with the owner and A/E to include Pepper in the set-up of these onsite testing visits and electronic copies of reports.
- II. If initial testing, adjusting, and balancing procedures were not performed during near-peak summer and winter conditions, perform additional inspections, testing, and adjusting during near-peak summer and winter conditions, if so requested by Owner/Engineer. Ensure that along with coordinating these re-inspections with the owner and A/E to include Pepper in the set-up of these onsite testing visits and electronic copies of reports.
- JJ. Furnish and install all mechanical louvers. Coordinate locations and installation with precast subcontractor. Include all bird/insect screening and insulated blank-off panels as indicated.
- KK. HVAC controls shall be Trane installed by the local branch office or Distech installed by Jackson Systems. No exceptions or substitutions will be accepted.
- LL. Provide and complete ground loop piping system as indicated in the project documents. All vaults will be the responsibility of this subcontractor. The owner is going after tax credits for this work, assistance with documentation and paperwork for the tax credit will be the responsibility of this subcontractor. Refer to specification section 00 62 75 Inflation Recovery Act Breakout Form for additional requirements
- MM. Provide and complete all excavation, pipe bedding, backfill, and compaction for the ground loop piping system. Subcontractor responsible for confirming backfilled elevations match existing elevations. Backfill to within +/- 1" of final grade.

- NN. Provide assistance with the Owner's Commissioning Authority as required in the project documents.
- OO. Subcontractor shall obtain all necessary permits required for this scope of work.
- PP. Subcontractor shall be responsible for touch-up painting of any factory painted equipment. Any piping requiring painting shall be the responsibility of the BP-20 Painting and Wall Coverings subcontractor
- QQ. Subcontractor shall provide all vibration isolation as required by the project documents.
- RR. Provide and complete all rough-ins, connections to food service equipment, and installation of loose items provided by the BP-27 subcontractor as required in the project documents. Refer to 11 40 00 section 1.02 for additional information.
- SS. Should the BP-01 Earthwork subcontractor encounter any existing HVAC lines underground that has not been disconnected and/or abandoned, BP-01 subcontractor shall report findings to Pepper construction. Make-safe and disconnection work will be completed by the HVAC subcontractor. The removal of the underground piping will still be included in the BP-01 subcontractor's scope of work.

- A. The following items have been specifically excluded from this bid package:
 - 1. Payment and performance bond.
 - 2. Full time, non-working safety professional.
 - 3. Interior and exterior concrete housekeeping pads.
 - 4. Joint Sealants, Acoustical Sealants, and Firestopping
 - 5. Dumpsters
 - 6. Painting of Ductwork and Piping

1.5 ALLOWANCES*

- *Allowance funding may be removed by Pepper Construction at any point within the project at the sole discretion of Pepper Construction. Funds that have already been agreed to and have been spent from an allowance are no longer subject to removal.
- A. Composite cleaning crew: All subcontractors provide a laborer, on a weekly basis, to compile a composite crew that will be utilized for construction cleaning at the sole direction of Peppers' superintendent. Subcontractors will only be required to provide an individual only during the time the subcontractor or tiered subcontractors are performing work onsite. This shall be figured at 8 hours per week.

1.6 ALTERNATES

- 1. Alternate #1: Site Aggregate Path Alternate.
- 2. Alternate #2: Playground Surfacing Alternate.

- 3. Alternate #3: Telescoping Stands and Retractable Audience Seating Alternate.
- 4. Alternate #4: Motor Operated Roller Shades Alternate.
- 5. Alternate #5: Area Rugs Alternate.

1.7 CONSTRUCTION ALTERNATES

- 1. Alternate #1: Site Concrete
- 2. Alternate #2: Joint Sealants, Acoustical Sealants, Fire Stopping

1.8 UNIT PRICES

A. Current Labor Rates (do not include overhead and profit).

1.9 BREAKOUTS

- A. Ground-Loop Heat-Pump Piping
- B. Testing, Adjusting and Balancing
- C. Building Automation System (DDC Controls)
- D. Hydronic Piping, Specialties, Pumps and Tanks
- E. Pipe Insulation
- F. Metal Ducts, Air Duct Accessories, GRDs, Air Terminal Units
- G. HVAC Fans
- H. Duct Insulation
- I. Packaged Air to Air Energy Recovery Ventilators
- J. Direct Fired Make-up Air Units
- K. Water Source Heat Pumps
- L. Mini-Split Air Conditioners
- M. Fan Coil Units
- N. Variable Frequency Drives
- O. Electric Unit Heaters and Finned Tube Radiators

PRODUCTS (Not Used)

PART 2 - EXECUTION (Not Used)

EXHIBIT B – Bid Package 11 – Electrical/Low Voltage/Security/Fire Alarm/HVAC and Door Roughins/Pathways

PART 1 - GENERAL

1.1 PROJECT DRAWINGS & SPECIFICATION

- A. Contract to include the following drawings for reference.
 - 1. For a full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
 - 2. Scope Specific Specifications:
 - 1) 00 Procurement and Contracting Requirements
 - 2) 01 General Requirements
 - 3) 05 50 00 Metal Fabrications (Partial)
 - 4) 08 31 13 Access Doors and Frames (Partial)
 - 5) 10 11 00 Visual Display Surface (Rough-In/Power)
 - 6) 10 12 00 Display Cases (Rough-In/Power)
 - 7) 10 14 19 Dimensional Letter Signage (Rough-In/Power)
 - 8) 10 14 23 Panel Signage (Rough-In/Power)
 - 9) 10 14 26 Post and Panel/Pylon Signage (Rough-In/Power)
 - 10) 10 28 00 Toilet, Bath, and Laundry Accessories (Rough-In/Power)
 - 11) 11 31 00 Residential Appliance (Rough-In/Power)
 - 12) 11 40 00 Foodservice Equipment (Rough-In/Power)
 - 13) 11 62 00 Entertainment Equipment (Rough-In/Power)
 - 14) 11 66 23 Gymnasium Equipment (Rough-In/Power)
 - 15) 11 68 00 Playground Equipment (Rough-In/Power)
 - 16) 11 95 00 Kilns (Rough-In/Power)
 - 17) 14 24 00 Hydraulic Elevators (Rough-In/Power)
 - 18) 22 11 23 Domestic Water Circulation Pumps (Rough-In/Power)
 - 19) 22 31 00 Domestic Water Softeners (Rough-In/Power)
 - 20) 22 34 00 Gas-Fired Domestic Water Heaters (Rough-In/Power)
 - 21) 22 47 00 Drinking Fountains and Water Coolers (Rough-In/Power)
 - 22) 22 67 19 Reverse Osmosis System Equipment (Rough-In/Power)
 - 23) 23 09 00 Instrumentation and Control for HVAC (Rough-In/Power)
 - 24) 23 21 23 Hydronic Pumps and Trim(Rough-In/Power)
 - 25) 23 34 23 HVAC Power Ventilators (Rough-In/Power)
 - 26) 23 36 00 Air Terminal Units (Rough-In/Power)
 - 27) 23 72 00 Packaged Air to Air Energy Recovery Ventilators (Rough-In/Power)
 - 28) 23 74 32 Direct Fired Make-up Air Units (Rough-In/Power)
 - 29) 23 81 34 Mini-Split Air-Conditioning (Rough-In/Power)
 - 30) 23 81 46 Water-Source Unitary Heat Pumps (Rough-In/Power)
 - 31) 23 82 34 Convectors & Radiation Electric (Rough-In/Power)
 - 32) 23 82 40 Unit Heaters Electric (Rough-In/Power)
 - 33) Division 26 Electrical (Complete)
 - 34) Division 27 Communications (Complete)
 - 35) Division 28 Electronic Safety & Security (Complete)

1.2 PROJECT SPECIFIC CLARIFICATIONS

A. See attached exhibit B.1

- A. Temporary power items listed below. Subcontractor to provide coordination and complete tie in of temporary to existing power companies electrical services. Subcontractor to coordinate any required shut downs to install and remove temporary power. Owner is responsible for temporary power consumption utility charges. Subcontractor is responsible for all costs associated with temporary power hookup fees, permitting, and other cost associated with temporary power setup as well as any costs associated with temporary power removal not to remain or abandon in place. Subcontractor shall make all final connections to items listed below.:
 - 1. Main Temporary Service: Sized to match final building power requirements
 - 2. HVAC Temporary Power:
 - 3. Pepper Office Trailer:
 - 4. Temporary Building Lighting
 - 5. Temporary Power
 - 6. Include demolition/removal of all temporary power and lighting as directed by Pepper Construction.
- B. Subcontract includes the furnish and install required for electrical scope including but not limited to the following items as shown on the project drawings and noted on project specifications:
 - 1. Electrical Power Conductors and Cables
 - 2. Control-Voltage Electrical Power Cables
 - 3. Grounding & Bonding
 - 4. Transformers
 - 5. Switchboards
 - 6. Panelboards
 - 7. Electricity Metering
 - 8. Wiring Devices
 - 9. Fuses
 - 10. Enclosed Switches
 - 11. Enclosed Controllers
 - 12. Engine Generator System
 - 13. Automatic Transfer Switches
 - 14. Surge Protection
 - 15. Exterior & Interior Building Lighting and Lighting Controls
 - 16. Signage Power
 - 17. Low Voltage Rough-In
- C. Provide all excavation, bedding, backfill, and compaction required for incoming power service. Subcontractor responsible for confirming backfilled elevations match existing elevations. Any excess spoils to be hauled to a clean fill site.
- D. Electrical subcontractor to provide ring and string through all data conduit that does not have cable being installed by this subcontractor.
- E. Provide submittals as indicated in the specifications.

- F. Provide record drawings as indicated in the specifications.
- G. Provide all necessary anchor bolts for the concrete subcontractor to place within housekeeping pads.
- H. Provide equipment delivery schedule at pre-construction meeting with all required information as identified in specifications.
- I. Provide with bid required form from specifications showing subcontractors, manufacturers, and suppliers of each item listed.
- J. Provide product data as indicated in the specifications.
- K. Provide and deliver to site required spare parts for owner's attic stock. Ensure all items are counted and a transmittal is provided with each delivery. Coordinate with Pepper.
- L. Coordinate with all in wall blocking subcontractor to appropriately layout required locations and blocking sizing. Electrical subcontractor to review and sign off on framing subcontractors marked locations on studs.
- M. Provide rough-in and power for all indicated equipment shown on the Equipment schedule.
- N. Subcontractor to provide power and pathways for all automatic door operators, regardless of location and voltage/amps. Subcontractor to request for all clarifications prior to bid day. No additional funding will be procured for any locations not identified by electrical subcontractor.
- O. Provide and complete electrical requirements as identified in the plumbing specification and drawings complete.
- P. Provide and complete all required HVAC electrical feeds and connections as identified in the project documents.
- Q. Provide and complete all required Fire Suppression electrical feeds and connections as identified in the project documents.
- R. Provide and complete install of under slab conduits, boxes, including excavation, bedding, backfill, and compaction. Subcontractor responsible for confirming backfilled elevations match existing elevations. Subcontractor is responsible for removal of all spoils created from this this scope of work.
- S. Coordinate with roofing subcontractor and include approved shop drawings indicating all penetrations through roofing system requiring manufactured pre-molded units or flashed around.
- T. Coordinate with BP-07 subcontractor to ensure all plumbing subcontractor's scope related items requiring acoustical sealants, joint sealants, and firestopping are completed.
- U. Coordinate all required concrete pads and curbs with building concrete and masonry subcontractors. Provide approved submittals and shop drawings to allow for concrete subcontractor to properly install pads/curbs. Ensure to provide and install all required sleeves, box outs, or other required pre concrete pour items are properly installed.

- V. Provide onsite start-up training for facility. Start up to be recorded to allow for personnel who are unable to attend to have for reference/deliverable to owner.
- W. Provide and complete storage, handling, cleaning, and temporary protection of subcontractor's scope items as identified in project specifications.
- X. Subcontractor to provide and install all ADA push pad pathways including underground runs.
- Y. Provide and complete grounding and bonding of complete build and equipment and as identified in project documents. Including but not limited to grounding loop system.
- Z. Provide and complete all electrical including but not limited to site building lights, spare/future use conduits, tie into existing building, exterior rated GFIs, gates, and accessories.
- AA. Provide and complete all interior lighting identified in the project documents including but not limited to can lights, dock lights, emergency backup lights, lay in fixtures, exit signs, and specialty lighting.
- BB. Subcontractor to provide Elevator with power per the project documents. Electrical subcontractor to land supply power cables in disconnects. Electrical subcontractor to supply and install all associated cabling, disconnects, etc. for elevator power as part of this subcontract. Coordinate disconnect sizing with Elevator subcontractor and provide final coordination drawings for approval based on said coordination.
- CC. Provide and coordinate with local electrical company to define cost associated with bringing in the new feed and meter as defined in the project documents. Subcontractor shall take full responsibility to include all cost in base bid to pay for utility company scope of work.
- DD. Coordinate with pre-cast concrete subcontractor to ensure all required electrical subcontractors scope penetrations are included in pre-cast concrete approved shop drawings. For any coring in pre-cast panels written documented review must occur with included parties, A/E, pre-cast subcontractor, and Pepper. All sleeves to be non-metallic and subcontractor to ship to precast subcontractors' facility. Subcontractor shall coordinate and ship sleeves and drawing indicating the layout of sleeves directly to precast subcontractors' facility.
- EE. Provide all required wall and ceiling location access panels for install by metal framing subcontractor. Panel shall match wall ceiling rating requirements per location. Coordinate locations and sizing with metal framing subcontractor and Pepper.
- FF. Provide and complete all required labeling, tagging, and identification marking of all of the following items but not limited to equipment, panels, conduits, boxes, gear, receptacles, and switches.
- GG. Provide and complete temporary use of new equipment to allow for conditioning of building following the standards identified in the specifications and for the duration indicated in the project schedule. Additionally, provide required cleaning and replacement as required prior to substantial completion.
- HH. Provide and complete the following wiring devices but not limited to switches, receptacles, photocell, subcontractors, pilot light, wall dimmer controls, (dual technology) occupancy sensors, and (passive infrared) occupancy sensors.

- II. Provide and complete install of floor boxes and associated accessories. Subcontractor to coordinate with other trades finishes to confirm final elevation requirements.
- JJ. Provide and complete install of emergency generator. Subcontractor to include all the following but not limited to generator, connection cabinet, alternator, controls, starting system, exhaust system, annunciator, tanks, cabling, supports, and accessories.
- KK. Subcontractor to complete set up and testing of generator and at turn over ensure all fluid levels are topped off including but not limited to oils, fuel, and cooling water.
- LL. Subcontractor to provide and complete fire detection and alarm wire and connect the waterflow, the valve supervisory switches.
- MM. Provide and complete all required test and demonstration of all life safety systems completed by this subcontractor operate correctly.
- NN. For required cutting and patching of permanent scopes in place to allow for install of electrical subcontractors scope it will be at the sole cost of the electrical subcontractor to have the permanent scopes cut and patched.
- OO. This subcontractor is responsible for all work indicated as by contractor on the Technology Responsibility Matrix on drawing T000 for the following systems:
 - 1. General Low Voltage
 - 2. Audio/Video
 - 3. Access Control
 - 4. Video Security
 - 5. Paging
- PP. Provide and install required flame-retardant plywood ensuring all sheets have identification stencil fully visible upon completion of installation.
- QQ. Provide and complete install of identified underground conduit to be utilized for service and distribution.
- RR. Provide and complete install of in-wall conduits stubbed above ceiling with an insulating bushing installed on the end.
- SS. Subcontractor is responsible for reviewing 10 28 00 electrified accessories in submittals identify electrical requirements including but not limited to amps/voltage, plug style, and length of cords match project documents. If variation is identified electrical subcontractor is responsible for identifying issue and sending through formal RFI.
- TT. Subcontractor is responsible for supply, install, terminations, and testing of required phone lines to each elevator. Subcontractor to coordinate final landing location for each elevator with finalized approved shop drawings. Lines shall then be ran back from elevator to main data room.
- UU. Contract includes the furnish and install required for electronic safety and security scope including but not limited to the following items as shown on the project drawings and noted on project specifications:
 - 1. Fire Detection and Alarm
 - 2. Pull Stations

- 3. Detectors
- 4. Alarm Signaling Devices
- 5. Annunciators
- 6. Control Panel
- 7. Digital Alarm Communicating Transmitter
- 8. Software
- 9. Backup System
- VV. Subcontractor shall provide pre-painted fire alarm system j-boxes. Field painting of boxes shall not be permitted.
- WW. Provide and deliver to site required spare parts for owner's attic stock. Ensure all items are counted and a transmittal is provided with each delivery. Coordinate with Pepper.
- XX. Provide and complete temporary install and removal of required monitoring to allow for HVAC to provide temporary conditioning of the building as defined in the schedule and specifications. Install of devices to include all the following items but not limited to cabling, monitoring services, detectors, and accessories. Subcontractor to provide required coordination early on to confirm written plan is submitted to A/E and Owner for review and approval.
- YY. Subcontractor shall provide all required power for VFDs, disconnects, switches, starters and all other means of controls related to all equipment under this package. Subcontractor shall coordinate with all other subcontractor scopes to provide power to units. All low-voltage, temperature control cabling shall be provided and installed by HVAC subcontractor and follow project documents following manufactures requirements on cable.
- ZZ. Subcontractor to complete install of all required cabling and raceways including all of following but not limited to conduits, supports, hangers, conduit fittings, power and data cable and connectors, boxes, cover plates, identification (labeling/tagging), and accessories.
- AAA. Provide and complete all required test and demonstration of all life safety systems completed by this subcontractor operate correctly.
- BBB. Provide and complete all power, low voltage cabling, raceways, and accessories to tie fire suppression flow switches, tamper switches, or similar devices into the fire alarm.
- CCC. New main service equipment and conductors to utility transformer included in this scope of work. Include supply, install, testing, and certification of new main service equipment to conductors.
- DDD. Provide and complete all site lighting as indicated in the project documents. Include all underground conduit/rough-in and wiring necessary for this scope of work. This includes but not limited to all light poles and uplighting as indicated.
- EEE. Provide and complete all lighting and power wiring associated with the vaults for the geothermal system. The owner is going after tax credits for this work, assistance with documentation and paperwork for the tax credit will be the responsibility of this subcontractor. Refer to specification section 00 62 75 Inflation Recovery Act Breakout Form for additional requirements

- FFF. Subcontractor is responsible to place all concrete piers for new light poles as indicated.
- GGG. Subcontractor shall obtain all necessary permits required for this scope of work.
- HHH. Subcontractor shall be responsible for touch-up painting of any factory painted equipment. Any conduit requiring painting shall be the responsibility of the BP-20 Painting and Wall Coverings subcontractor
- III. Subcontractor shall provide all vibration isolation as required by the project documents.
- JJJ. Provide assistance with the Owner's Commissioning Authority as required in the project documents.
- KKK. Provide and complete all rough-ins, connections to food service equipment, and installation of loose items provided by the BP-27 subcontractor as required in the project documents. Refer to 11 40 00 section 1.02 for additional information.
- LLL. Should the BP-01 Earthwork subcontractor encounter any existing electric lines underground that has not been disconnected and/or abandoned, BP-01 subcontractor shall report findings to Pepper construction. Make-safe and disconnection work will be completed by the electrical subcontractor. The removal of the underground conduit/piping will still be included in the BP-01 subcontractor's scope of work.

- A. The following items have been specifically excluded from this bid package:
 - 1. Payment and performance bond.
 - 2. Full time, non-working safety professional.
 - 3. Firestopping
 - 4. Joint Sealants
 - 5. Acoustical Sealants
 - 6. Data Network Switches, UPS, PDU (By Owner)
 - 7. Procurement of Wireless Access Points (By Owner)
 - 8. Procurement of Clocks (By Owner)
 - 9. Paging system speaker (Contracted directly by Owner)
 - 10. Entrance ISP Fiber (By Owner)
 - 11. Entrance ISP Copper (By Owner)
 - 12. AV System in-room point-to-point cabling, flat panel displays and mounts, patch cables, programming, commissioning, and warranty (Contracted directly by Owner)
 - 13. Painting of Conduits
 - 14. Equipment Pads

1.5 ALLOWANCES*

- *Allowance funding may be removed by Pepper Construction at any point within the project at the sole discretion of Pepper Construction. Funds that have already been agreed to and have been spent from an allowance are no longer subject to removal.
- A. Composite cleaning crew: All subcontractors provide a laborer, on a weekly basis, to compile a composite crew that will be utilized for construction cleaning at the sole direction of Peppers' superintendent. Subcontractors will only be required to provide an individual only during the time the subcontractor or tiered subcontractors are performing work onsite. This shall be figured at 8 hours per week.
- B. Temporary electrical and hookups: \$50,000.00

1.6 ALTERNATES

- 1. Alternate #1: Site Aggregate Path Alternate.
- 2. Alternate #2: Playground Surfacing Alternate.
- 3. Alternate #3: Telescoping Stands and Retractable Audience Seating Alternate.
- 4. Alternate #4: Motor Operated Roller Shades Alternate.
- 5. Alternate #5: Area Rugs Alternate.

1.7 CONSTRUCTION ALTERNATES

- 1. Alternate #1: Site Concrete
- 2. Alternate #2: Joint Sealants, Acoustical Sealants, Fire Stopping

1.8 UNIT PRICES

A. Current Labor Rates (do not include overhead and profit).

1.9 BREAKOUTS

- A. Temporary Power and Lighting
- B. Electrical Gear, Main Distribution Panels and Switchboards
- C. Feeders
- D. Transformers
- E. Branch Panels
- F. Branch Wiring
- G. Grounding and Bonding
- H. Power Devices and Equipment Power

- I. Interior Lighting and Controls
- J. Exterior Building Lighting and Controls
- K. Emergency Generator System and ATS
- L. Fire Alarm System
- M. Data/Telecomm System
- N. AV System
- O. Access Control System
- P. Video Security System

PRODUCTS (Not Used)

PART 2 - EXECUTION (Not Used)

EXHIBIT B – Bid Package 12 – Fire Suppression

PART 1 - GENERAL

1.1 PROJECT DRAWINGS & SPECIFICATION

- A. Contract to include the following drawings for reference
 - 1. For a full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
 - 2. Scope Specific Specifications:
 - 1) 00 Procurement and Contracting Requirements
 - 2) 01 General Requirements
 - 3) 08 31 13 Access Doors (Supply Only)
 - 4) 20 00 10 Common Work Results for Fire Suppression, Plumbing and HVAC
 - 5) 20 00 50 Common Materials and Methods for Fire Suppression, Plumbing and HVAC
 - 6) 20 00 60 Common Pipe, Valves, Fittings and Hangers for Fire Suppression, Plumbing and HVAC
 - 7) 21 10 00 Water-Based Fire-Suppression Systems

1.2 PROJECT SPECIFIC CLARIFICATIONS

A. See attached exhibit B.1

- A. All lifts shall maintain a diaper for duration of being onsite and be free of any fasteners in tires. Wheels shall be non-marking.
- B. Subcontractor to supply shop drawings for all interior and exterior housekeeping pads, support pads, and curbs per contract documents for Fire Suppression scope. Supply and install of pads, support pads, and curbs by Concrete subcontractor (BP-02A). Layout to be performed by concrete subcontractor and reviewed by Fire Suppression subcontractor. Any additional pads or curbs not identified prior to bidding will be picked up by Fire Suppression subcontractor.
- A. Subcontractor to include all labor, materials, tools, equipment, and supervision necessary to complete the fire suppression scope of work.
- B. Provide submittals as indicated in the specifications.
- C. Provide record drawings as indicated in the specifications.
- D. Provide equipment delivery schedule at pre-construction meeting with all required information as identified in specifications.
- E. Provide product data as indicated in the specifications.

- F. Coordinate with all in wall blocking subcontractor to appropriately layout required locations and blocking sizing.
- G. Provide, complete, and coordinate with electrical subcontractor for all interconnecting systems between the fire suppression and detection systems per requirements as identified in the specification and drawings complete.
- H. Coordinate with roofing subcontractor and include approved shop drawings indicating all penetrations through roofing system requiring manufactured pre-molded units or flashed around.
- I. Coordinate with BP-07 subcontractor to ensure all plumbing subcontractor's scope related items requiring acoustical sealants, joint sealants, and firestopping are completed.
- J. Coordinate all required concrete pads and curbs with building concrete and masonry subcontractor. Provide approved submittals and shop drawings to allow concrete subcontractor to properly set. Ensure to provide and install all required sleeves, box outs, or other required pre concrete pour items are properly installed.
- K. Provide onsite start-up training for facility. Start up to be recorded to allow for personnel who are unable to attend to have for reference/deliverable to owner.
- L. Provide and complete storage, handling, cleaning, and temporary protection of subcontractor's scope items as identified in project specifications.
- M. Coordinate with pre-cast concrete subcontractor to ensure all required fire suppression subcontractors scope penetrations are included in pre-cast concrete approved shop drawings. For any coring in pre-cast panels written documented review must occur with included parties, A/E, pre-cast subcontractor, and Pepper.
- N. Provide all required wall and ceiling location access panels for install by metal framing subcontractor. Panels shall match wall ceiling rating requirements per location. Coordinate locations and sizing with metal framing subcontractor and Pepper.
- O. Provide and complete install of wet-pipe fire suppression system complete including all of the following items but not limited to pipe, fittings, gauges, switches, sprinkler heads, trims, covers, meters, strainers, valves (automatic and manual), sensors, hangers, supports, drip pans, sleeves, and accessories.
- P. Provide upright sprinkler heads above slatted ceiling structure. Provide concealed sprinkler heads in slatted ceiling structure. Provide concealed sprinkler heads required per NFPA 13. Coordinate concealed sprinkler cover with architect.
- Q. Provide sprinkler head type as indicated in the project documents.
- R. Provide dry pendent sprinkler head in walk-in cooler/freezer unit. Seal penetration with spray foam insulation.
- S. Provide and complete all required labeling, tagging, and identification marking of all of the following items but not limited to valves, equipment, controls, concealed equipment and valves, and pipe.

- T. Provide and complete all required test and demonstration of all life safety systems completed by this subcontractor operate correctly.
- U. Subcontractor to provide and complete install and removal of all required testing equipment, pipe, valves, and accessories to complete testing of system.
- V. Coordinate with earthwork subcontractor on specific location required for fire protection piping that the Earthwork/Site utilities subcontractor is bringing into the building. Earthwork subcontractor to bring piping into the new building as shown and terminating with a blind flange at and above 1'-0" above the floor. Fire Suppression subcontractor to provide and confirm layout.
- W. Subcontractor shall obtain all necessary permits required for this scope of work.
- X. Subcontractor shall be responsible for touch-up painting of any factory painted equipment. Any piping requiring painting shall be the responsibility of the BP-20 Painting and Wall Coverings subcontractor
- Y. Subcontractor shall provide all vibration isolation as required by the project documents.
- Z. Coordinate with pre-cast concrete subcontractor to ensure all required fire suppression subcontractor's scope penetrations are included in pre-cast concrete approved shop drawings. For any coring in pre-cast panels written documented review must occur with included parties, A/E, pre-cast subcontractor, and Pepper. Subcontractor shall provide nonmetallic sleeves for penetrations through precast. Subcontractor shall coordinate and ship sleeves and drawing indicating the layout of sleeves directly to precast subcontractors' facility.

- A. The following items have been specifically excluded from this bid package:
 - 1. Payment and performance bond.
 - 2. Full time, non-working safety professional.
 - 3. Fire extinguishers and cabinets.
 - 4. Concrete housekeeping pads and curbs.
 - 5. Firestopping.
 - 6. Joint Sealants
 - 7. Acoustical Sealants
 - 8. Fire Suppression within Kitchen Exhaust Hood
 - 9. Painting of piping

1.5 ALLOWANCES*

- *Allowance funding may be removed by Pepper Construction at any point within the project at the sole discretion of Pepper Construction. Funds that have already been agreed to and have been spent from an allowance are no longer subject to removal.
- A. Composite cleaning crew: All subcontractors provide a laborer, on a weekly basis, to compile a composite crew that will be utilized for construction cleaning at the sole direction of Peppers' superintendent. Subcontractors will only be required to provide an individual only during the time

the subcontractor or tiered subcontractors are performing work onsite. This shall be figured at 8 hours per week.

1.6 ALTERNATES

- 1. Alternate #1: Site Aggregate Path Alternate.
- 2. Alternate #2: Playground Surfacing Alternate.
- 3. Alternate #3: Telescoping Stands and Retractable Audience Seating Alternate.
- 4. Alternate #4: Motor Operated Roller Shades Alternate.
- 5. Alternate #5: Area Rugs Alternate.

1.7 CONSTRUCTION ALTERNATES

- 1. Alternate #1: Site Concrete
- 2. Alternate #2: Joint Sealants, Acoustical Sealants, Fire Stopping

1.8 UNIT PRICES

A. Current Labor Rates (do not include overhead and profit).

1.9 BREAKOUTS

A. Wet-pipe fire suppression system

1.10 PRODUCTS (Not Used)

PART 2 - EXECUTION (Not Used)

EXHIBIT B – Bid Package 13 – Landscape and Site Furnishings

PART 1 - GENERAL

1.1 PROJECT DRAWINGS & SPECIFICATION

A. Contract to include the following drawings for reference

Bartholomew Consolidated School Corporation – New Elementary #12 – Maple Grove

- 1. For a full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
- 2. Scope Specific Specifications:
 - 1) 00 Procurement and Contracting Requirements
 - 2) 01 General Requirements
 - 3) 32 33 00 Site Furnishings
 - 4) 32 91 13 Topsoil Preparation
 - 5) 32 92 00 Turf and Grasses
 - 6) 32 93 00 Plants

1.2 PROJECT SPECIFIC CLARIFICATIONS

A. See attached Exhibit B.1

- A. Furnish and install all softscapes items as indicated in the project documents.
- B. Provide topsoil analysis of stockpiled material on-site per 32 92 00 1.5 B and 32 93 00 1.06 C and amend as needed.
- C. Fine grading and preparation of topsoil included in this scope of work. Topsoil to be distributed across site and rough graded by others.
- D. Excavation and backfill as required for plantings.
- E. Supply and install all site furnishings including flagpole, benches, bike racks, litter receptacles, shade structures, bollard sleeves, etc.
- F. Supply and install triangle sails at playground area (ref keynote F28/L110).
- G. Supply and install concrete footings and fill associated with site furnishings.
- H. Supply and install aggregate pavement drip edge (ref keynote P08/L10X and detail 6/L410) including excavation/grading, geotextile fabric, decorative stone, and steel edging.
- I. Lawn maintenance per $32\ 92\ 00 1.8$ and plant maintenance per $32\ 93\ 00 1.10$ is included in this scope of work.

- J. Removal of tree protection and SWPPP (erosion and sediment control) measures is included in this subcontract after requirements of plantings per the project documents has been met to allow for removal. Installation and maintenance is by BP-01 subcontractor.
- K. The subcontractor will be responsible for all excess soil generated from BP-13 scope installation. Excess soils to be removed immediately.

- A. The following items have been specifically excluded from this bid package:
 - 1. Payment and performance bond.
 - 2. Full time, non-working safety professional.
 - 3. Irrigation
 - 4. Barrier gate
 - 5. Metal gates
 - 6. Bollards
 - 7. Playground equipment or surfacing
 - 8. Site concrete other than foundations/fill for site furnishings

1.5 ALLOWANCES

All allowances shall only be approved for use or deduction from subcontract by Pepper Construction through written notice. At the end or anytime at Pepper Constructions discretion any and all unused allowances can be deducted from the subcontract through a formal change order.

- A. Composite cleaning crew: All subcontractors provide a laborer, on a weekly basis, to compile a composite crew that will be utilized for construction cleaning at the sole direction of Peppers' superintendent. Subcontractors will only be required to provide an individual only during the time the subcontractor or tiered subcontractors are performing work onsite. This shall be figured at 8 hours per week. Value \$_____
- B. Include a \$25,000 allowance for additional plantings which may be required by local AHJ. All work must be approved by Pepper Construction prior to proceeding with any allowance work.

1.6 DESIGN ALTERNATES

- 1. Alternate #1: Site Aggregate Path Alternate.
- 2. Alternate #2: Playground Surfacing Alternate.
- 3. Alternate #3: Telescoping Stands and Retractable Audience Seating Alternate.
- 4. Alternate #4: Motor Operated Roller Shades Alternate.
- 5. Alternate #5: Area Rugs Alternate.

1.7 CONSTRUCTION ALTERNATES

- 1. Alternate #1: Site Concrete
- 2. Alternate #2: Joint Sealants, Acoustical Sealants, Firestopping

1.8 UNIT PRICES

A. Current Labor Rates (do not include overhead and profit).

1.9 BREAKOUTS

- A. Plants
- B. Grasses
- C. Topsoil
- D. Maintenance
- E. Aggregate Pavement Drip Edge
- F. Site Furnishings
- G. Allowance

1.10 PRODUCTS (Not Used)

PART 2 - EXECUTION (Not Used)

EXHIBIT B – Bid Package 14 – Playground Surfacing and Equipment

PART 1 - GENERAL

1.1 PROJECT DRAWINGS & SPECIFICATION

A. Contract to include the following drawings for reference

Bartholomew Consolidated School Corporation – New Elementary #12 – Maple Grove

- 1. For a full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
- 2. Scope Specific Specifications:
 - 1) 00 Procurement and Contracting Requirements
 - 2) 01 General Requirements
 - 3) 11 68 00 Playground Equipment
 - 4) 31 32 19 Geotextiles
 - 5) 32 18 16 Playground Surfacing Engineered Wood Fiber
 - 6) 32 18 18 Playground Surfacing Synthetic Turf

1.2 PROJECT SPECIFIC CLARIFICATIONS

A. See attached Exhibit B.1

1.3 SCOPE SPECIFIC CLARIFICATIONS

- A. Furnish and install all playground equipment components in the project documents
- B. Furnish and install all playground surfacing including engineered wood fiber surfacing and synthetic turf surfacing (ref keynotes P06,P07/L101).
- C. Furnish and install concrete footings and fill associated with playground equipment and surfacing including excavation and backfill.
- D. Re-dress and fine grading of stone base prior to installation of playground surfacing. Compacted stone under surfacing to be placed and rough-graded to within +/- 0.10' of proposed elevation by others (ref details 1,3/L602). Include geotextile fabric between stone base and surfacing. Geotextile fabric below stone base to be by others.
- E. Furnish and install perimeter curb nailer at play surfacing (ref details 1,2/L602).
- F. The subcontractor will be responsible for all excess soil generated from BP-14 scope installation. Excess soils to be removed immediately.

1.4 EXCLUSIONS

- A. The following items have been specifically excluded from this bid package:
 - 1. Payment and performance bond.

- 2. Full time, non-working safety professional.
- 3. Site concrete other than foundations/fill for playground equipment and surfacing
- 4. Triangle sail shade structures (keynote F28/L110)
- 5. Site furnishings

1.5 ALLOWANCES

A. None

1.6 DESIGN ALTERNATES

- 1. Alternate #1: Site Aggregate Path Alternate.
- 2. Alternate #2: Playground Surfacing Alternate.
- 3. Alternate #3: Telescoping Stands and Retractable Audience Seating Alternate.
- 4. Alternate #4: Motor Operated Roller Shades Alternate.
- 5. Alternate #5: Area Rugs Alternate.

1.7 CONSTRUCTION ALTERNATES

- 1. Alternate #1: Site Concrete
- 2. Alternate #2: Joint Sealants, Acoustical Sealants, Firestopping

1.8 UNIT PRICES

A. Current Labor Rates (do not include overhead and profit).

1.9 BREAKOUTS

- A. Playground Surfacing Engineered Wood Fiber
- B. Playground Surfacing Synthetic Turf
- C. Playground Equipment
- D. Cushion Layer
- E. Geotextile

1.10 PRODUCTS (Not Used)

PART 2 - EXECUTION (Not Used)

BP 15 was removed



EXHIBIT B – Bid Package 16A – INTERIOR & EXTERIOR FRAMING, GYPSUM, BLOCKING and FINISHING

PART 1 - GENERAL

1.1 PROJECT DRAWINGS & SPECIFICATION

A. Contract to include the following drawings for reference

Department of Administration, Public Works – Indiana State Archives Project No. 49020034-22-009-D1

- A. For a full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
- B. Scope Specific Specifications:
 - 1) 00 Procurement and Contracting Requirements
 - 2) 01 General Requirements
 - 3) 05 40 00 Cold-Formed Metal Framing
 - 4) 06 10 53 Miscellaneous Rough Carpentry (Partial)
 - 5) 06 16 00 Sheathing (Complete)
 - 6) 06 16 43 Glass-Mat Gypsum Wall Sheathing
 - 7) 07 21 00 Thermal Insulation (Partial)
 - 8) 07 21 19 Spray Foam Insulation
 - 9) 07 92 00 Joint Sealants (Partial)
 - 10) 08 31 13 Access Doors & Frames (Install)
 - 11) 09 22 16 Non-Structural Metal Framing
 - 12) 09 26 13 Gypsum Veneer Plastering
 - 13) 09 29 00 Gypsum Board

1.2 PROJECT SPECIFIC CLARIFICATIONS

A. See Attached Exhibit B.1.

- A. All lifts shall maintain a diaper for duration of being onsite and be free of any fasteners in tires. Wheels shall be non-marking.
- B. Upon completion of drywall hanging on each floor lifts will be required to be removed from that floor for the duration of the project. From that point moving forward for remainder of project subcontractors must only utilize ladders and scaffold systems.
- C. Provide separate submittal/shop drawings for the building mockup. This will require an early, separate delivery of mockup material in advance of the building material. Any additional shipping/freight charges, mobilizations, equipment, etc. to erect the mockup are to be included in this bid.

- D. Material staging and storage is extremely limited. This subcontractor shall include all costs with 'just in time' material and/or equipment delivery.
- E. All layout associated with this scope of work has been considered and is included in the base bid. Control points or benchmarks to be established by Pepper Construction Company in coordination with the site utilities subcontractor
- F. Schedule A milestone schedule is included herein the bid documents. Upon award, all subcontractors shall participate in a pull-planning meeting on site in which a detailed schedule showing interaction & coordination among all trades will be created & mutually agreed upon. The project manager and field supervisor responsible for each bid category should be present at each pull planning session.
- G. The delegated design of the framing/sheathing shop drawings and calculations to be included in the base bid. This subcontractor has to submit a detailed plan on how they plan to tie into building structure with bid submission (anchors and support).
- H. Furnish and install all exterior cold-formed metal framing and sheathing complete.
- I. Furnish and install all exterior wood blocking and plywood sheathing as indicated. Includes but not limited to rooftop equipment bases and support curbs, wood blocking and nailers, wood sleepers, plywood backing panels, and parapet ½" thick plywood sheathing (complete), etc. This also includes all blocking/sheathing at the exterior site walls as indicated. All material to be Southern Yellow Pine except where noted to be fire-treated. All plywood to be exterior rated CDX.
- J. Upon completion of drywall hanging on each floor lifts will be required to be removed from that floor for the duration of the project. From that point moving forward for remainder of project subcontractors must only utilize ladders and scaffold systems.
- K. Furnish and install cement backer board at all wall tile locations.
- L. Furnish and install all interior gypsum board walls, ceilings, bulkheads, soffits, etc.
- M. Furnish and install all in-wall wood blocking for millwork, wall protection, accessories, acoustical treatments, visual display units, equipment, etc. as indicated. Coordinate locations of all in-wall blocking with subcontractors and any Owner provided and installed furniture, equipment, etc.
- N. Furnish and install bulkheads at demountable partition locations as indicated.
- O. Furnish and install all plywood wall board as indicated in Mechanical/Electrical/AV rooms.
- P. Accessories for gypsum board assemblies not associated with finishing/preparation of board assemblies for final wall covering are furnished and installed by this subcontractor. Interior. This includes, but not limited to, all accessories such as control/expansion joints, corner bead, zip strip, fry reglet reveals, etc.
- Q. Subcontractor to install all MEP provided access panels complete. Exact locations to be provided on marked up drawings from MEP subcontractors.

- R. Include all temporary conditions and safety measures required for your scope.
- S. Include delegated design for your scope per Documents.
- T. Include stair and elevator shaft walls per Documents.
- U. For interior gypsum areas, include a Level 4 finish. Any area with vinyl wallcovering or vinyl graphics to receive a Level 5 finish.
- V. Include all interior and exterior insulation in walls per the Documents.
- W. Include framing at exterior conditions for any columns, horizontal spandrels, soffits, eave locations, etc. per the Documents. Intent is for this package to include a complete framing/sheathing package for the entire project.
- X. Include cold-formed metal framing per Specification with no exceptions.
- Y. Include taping and/or sealing joints of sheathing.
- Z. Include in your bid material, labor and equipment costs to meet project schedule. No additional costs will be given for material escalation, labor burden increases, commodity increases, etc.
- AA. This scope of work includes all spray foam shown on the project documents.
- B. Include any costs associated with the visual, stand-alone mockup per 01 45 10.

- A. The following items have been specifically excluded from this bid package:
 - A. Payment and performance bond.
 - B. Firestopping
 - C. 07 27 26 Fluid-Applied Membrane Air Barriers.
 - D. 07 84 13 Penetration Firestopping
 - E. 07 84 46 Fire-Resistive Joint Systems
 - F. 07 92 00 Joint Sealants
 - G. 09 51 13 Acoustical Panel Ceilings
 - H. 09 51 33 Acoustical Metal Ceilings
 - I. 09 54 26 Wood Slat Ceilings

1.5 ALLOWANCES

A. Composite cleaning crew: All subcontractors provide a laborer, on a weekly basis, to compile a composite crew that will be utilized for construction cleaning at the sole direction of Peppers' superintendent. Subcontractors will only be required to provide an individual only during the time the subcontractor or tiered subcontractors are performing work onsite. This shall be figured at 8 hours per week.

1.6 DESIGN ALTERNATES:

- A. Alternate #1: Site Aggregate Path Alternate.
- B. Alternate #2: Playground Surfacing Alternate.
- C. Alternate #3: Telescoping Stands and Retractable Audience Seating Alternate.
- D. Alternate #4: Motor Operated Roller Shades Alternate.
- E. Alternate #5: Area Rugs Alternate.

1.7 CONSTRUCTION ALTERNATES:

- A. Alternate #1: Site Concrete
- B. Alternate #2: Joint Sealants, Acoustical Sealants, Firestopping

1.8 UNIT PRICES

- A. Current Labor Rates (do not include overhead and profit).
- B. Equipment Rates

1.9 BREAKOUT PRICING:

- A. 05 40 00 Cold-Formed Metal Framing
- B. 06 10 53 Miscellaneous Rough Carpentry (Partial)
- C. 06 16 00 Sheathing (Complete)
- D. 06 16 43 Glass-Mat Gypsum Wall Sheathing
- E. 07 21 00 Thermal Insulation (Partial)
- F. 07 21 19 Spray Foam Insulation
- G. 07 92 00 Joint Sealants (Partial)
- H. 08 31 13 Access Doors & Frames (Install)
- I. 09 22 16 Non-Structural Metal Framing
- J. 09 26 13 Gypsum Veneer Plastering
- K. 09 29 00 Gypsum Board
- L. Mockup

PRODUCTS (Not Used)

PART 2 - EXECUTION (Not Used)

EXHIBIT B – Bid Package 16B – Ceilings

PART 1 - GENERAL

1.1 PROJECT DRAWINGS & SPECIFICATION

A. Contract to include the following drawings for reference

Department of Administration, Public Works – Indiana State Archives Project No. 49020034-22-009-D1

- A. For full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
- B. Scope Specific Specifications:
 - 1) 00 Procurement and Contracting Requirements
 - 2) 01 General Requirements
 - 3) 06 10 53 Miscellaneous Rough Carpentry (Partial)
 - 4) 08 31 13 Access Doors and Frames (Install)
 - 5) 09 51 13 Acoustical Panel Ceilings
 - 6) 09 51 33 Acoustical Metal Ceilings
 - 7) 09 54 26 Wood Slat Ceilings

1.2 PROJECT SPECIFIC CLARIFICATIONS

A. See Attached Exhibit B.1.

- A. All lifts shall maintain a diaper for duration of being onsite and be free of any fasteners in tires. Wheels shall be non-marking.
- B. Upon completion of drywall hanging on each floor lifts will be required to be removed from that floor for the duration of the project. From that point moving forward for remainder of project subcontractors must only utilize ladders and scaffold systems.
- C. Contractor to include all labor, materials, tools, equipment, and supervision necessary to complete the ceiling scope of work.
- D. Provide submittals as indicated in the specifications.
- E. Provide product data as indicated in the specifications.
- F. Provide warranties as indicated in the specifications.
- G. Subcontractor to provide and complete all seismic requirements in the project documents and by contractor's engineer.
- H. Provide and complete coordination with HVAC contractor and Pepper construction prior to install.

- I. Include any necessary rough carpentry for this scope of work.
- J. Contractor to provide and install all of the following ceiling system components but not limited to anchors, panels, hangers, braces, ties, moldings, trims, seismic provisions, and acoustical sealant.
- K. Scope includes, but no limited to, all acoustical ceiling work including CL1, CL2, CL5, CL6, CL7, & CL8.
- L. Include all axiom trims associated with this scope of work.
- M. Include any costs associated with the visual, stand-alone mockup per 01 45 10.

- A. The following items have been specifically excluded from this bid package:
 - A. Payment and performance bond.
 - B. Full time, non-working safety professional.
 - C. Gypsum board ceilings
 - D. Firestopping
 - E. Joint Sealants
 - F. Dumpsters

1.5 ALLOWANCES

A. Composite cleaning crew: All subcontractors provide a laborer, on a weekly basis, to compile a composite crew that will be utilized for construction cleaning at the sole direction of Peppers' superintendent. Subcontractors will only be required to provide an individual only during the time the subcontractor or tiered subcontractors are performing work onsite. This shall be figured at 8 hours per week.

1.6 DESIGN ALTERNATES:

- A. Alternate #1: Site Aggregate Path Alternate.
- B. Alternate #2: Playground Surfacing Alternate.
- C. Alternate #3: Telescoping Stands and Retractable Audience Seating Alternate.
- D. Alternate #4: Motor Operated Roller Shades Alternate.
- E. Alternate #5: Area Rugs Alternate.

1.7 CONSTRUCTION ALTERNATES:

- A. Alternate #1: Site Concrete
- B. Alternate #2: Joint Sealants, Acoustical Sealants, Firestopping

1.8 UNIT PRICES

A. Current Labor Rates (do not include overhead and profit.

- 1.9 Breakout Pricing (For Accounting Purposes Only)
 - A. 06 10 53 Miscellaneous Rough Carpentry (Partial)
 - B. 08 31 13 Access Doors and Frames (Install)
 - C. 09 51 13 Acoustical Panel Ceilings
 - D. 09 51 33 Acoustical Metal Ceilings
 - E. 09 54 26 Wood Slat Ceilings
 - F. Mockup

PRODUCTS (Not Used)

PART 2 - EXECUTION (Not Used)

EXHIBIT B – Bid Package 17A – General Trades: Door Systems

PART 1 - GENERAL

A.

1.1 PROJECT DRAWINGS & SPECIFICATION

Contract to include the following drawings for reference

Bartholomew Consolidated School Corporation – New Elementary #12 – Maple Grove

- 1. For full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
- 2. Scope Specific Specifications:
 - 1) 00 Procurement and Contracting Requirements
 - 2) 01 General Requirements
 - 3) 08 11 13 Hollow Metal Doors and Frames
 - 4) 08 14 16 Flush Wood Doors
 - 5) 08 33 13 Coiling Counter Doors
 - 6) 08 33 23 Overhead Coiling Doors
 - 7) 08 34 73 Wood Sound Control Door Assemblies
 - 8) 08 71 00 Door Hardware
 - 9) 26 05 00 Common Work Results for Electrical (Partial)
 - 10) 28 13 00 Electronic Access Control (Partial)

1.2 PROJECT SPECIFIC CLARIFICATIONS

A. See attached Exhibit B.1

- A. Subcontractor to provide all coordination with other trades and approved shop drawings to finalizing sizing, sequencing of doors and frames, and install of corresponding security functions.
- B. Subcontractor has reviewed the current project schedule and has confirmed delivery of all doors, frames, and hardware can meet or exceed current project schedule time frame.
- C. Subcontractor to provide and complete all required mounting/hanging of doors and frames.
- D. Subcontractor to provide and complete any and all touch up to the finish of the primed door and frames assembly.
- E. This subcontractor is responsible to furnish and install all automatic door operators, including auto operator bollards. Include all testing as specified. Subcontractor to hire electrical subcontractor (if needed) to ensure fully operating system at no additional charge to the project. No additional funds will be procured past bid day for failutre to provide a complete operating system.

- F. This subcontractor to review and ensure all pathways and pull strings are installed for all power and low voltage requirements for door systems complete. Failure to complete this process prior to installation of drywall, masonry, curtainwall, storefront systems, etc. will result in all rework cost being picked up by Door subcontractor complete.
- G. Subcontractor to coordinate with Pepper to ensure flush wood doors are not delivered to site until all specification requirements including all of the following site parameters are met structure enclosed, weathertight, wet work complete in areas of install, permanent HVAC system is running and fluctuation of temperature is contained between 50 and 90 degrees Fahrenheit, humidity is between 25 and 55 percent, and manufacturers additional requirements are met.
- H. Subcontractor to provide and install temporary unfinished wood slab door at each electrical room, data room, mechanical room, and all exterior locations (unless door is located in a storefront location at which occurrence the door would be provided and installed by BP 05). Doors shall be installed with temporary hardware consisting of a push bar unit. Temporary cores are to be provided by subcontractor as identified in this scope for these doors and will be installed by Pepper. Exterior doors shall be installed with weather striping and kick plates (both side of door and half the height of the door).
- I. Subcontractor to provide the following temporary core system and turn over to Pepper Construction within two months of signing subcontract. The following items will not be returned and will remain with Pepper Construction at the end of the project. All the following are to be purchased through Oak Security Group (10640 E 59th Street, Suite 200 Indianapolis, IN 46236 Local: 317-585-9830)
 - 1. 20qty 41P Series Padlock (630 Stainless Steel) 2" Shackle, Function (Key Retained) and Weather Cover
 - 2. 10qty 21P Series Padlock (630 Stainless Steel), Shackle 18" Cable, Function Key Retained
 - 3. SFIC Cores
 - a. 4qty core pulling keys for list below
 - b. 15qty Master keys to fit all cores listed below
 - c. 15qty AZ Core w/ 20 keys
 - d. 15qty AZ1 Core w/ 20 keys
 - 4. Provide a Milwaukee Packout Modular 3-Drawer unit with temporary core (Model 48-22-8443)
 - 5. Provide 8 qty Stanley Best ED211 ED Series Cylinder Equipment, Mortise Cylinder Wrench

- A. The following items have been specifically excluded from this bid package:
 - 1. Payment and performance bond.
 - 2. Full time, non-working safety professional.
 - 3. Installing any door frames located within masonry walls (by BP02B Building Masonry)
 - 4. Joint Sealants
 - 5. Dumpsters

1.5 ALLOWANCES

All allowances shall only be approved for use or deduction from subcontract by Pepper Construction through written notice. At the end or anytime at Pepper Constructions discretion any and all unused allowances can be deducted from the subcontract through a formal change order.

A. Composite cleaning crew: All subcontractors provide a laborer, on a weekly basis, to compile a composite crew that will be utilized for construction cleaning at the sole direction of Peppers' superintendent. Subcontractors will only be required to provide an individual only during the time the subcontractor or tiered subcontractors are performing work onsite. This shall be figured at 8 hours per week.

1.6 DESIGN ALTERNATES

- 1. Alternate #1: Site Aggregate Path Alternate.
- 2. Alternate #2: Playground Surfacing Alternate.
- 3. Alternate #3: Telescoping Stands and Retractable Audience Seating Alternate.
- 4. Alternate #4: Motor Operated Roller Shades Alternate.
- 5. Alternate #5: Area Rugs Alternate.

1.7 CONSTRUCTION ALTERNATES

- 1. Alternate #1: Site Concrete
- 2. Alternate #2: Joint Sealants, Acoustical Sealants, Firestopping

1.8 UNIT PRICES

A. Current Labor Rates (do not include overhead and profit.

1.9 BREAKOUTS:

- A. Furnish and install Hollow Metal Doors and Frames (including hardware)
- B. Furnish and Install Flush Wood Doors (including hardware)
- C. Furnish and install automatic door operators
- D. Temporary Cores

PRODUCTS (Not Used)

PART 2 - EXECUTION (Not Used)

1.1 PROJECT DRAWINGS & SPECIFICATION

A. Contract to include the following drawings for reference:

Bartholomew Consolidated School Corporation – New Elementary #12 – Maple Grove:

- 1. For a full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
- 2. Scope Specific Specifications:
 - 1) 00 Procurement and Contracting Requirements
 - 2) 01 General Requirements
 - 3) 06 64 00 Plastic Paneling
 - 4) 10 11 00 Visual Display Surfaces
 - 5) 10 11 46 Tackable Wall Covering
 - 6) 10 12 00 Display Cases
 - 7) 10 14 19 Dimensional Letter Signage
 - 8) 10 21 13 Toilet Compartments
 - 9) 10 21 23 Cubicle Curtains and Track
 - 10) 10 26 00 Wall and Door Protection
 - 11) 10 28 00 Toilet, Bath, and Laundry Accessories
 - 12) 10 43 13 Defibrillator Cabinets
 - 13) 10 44 13 Fire Extinguishers and Cabinets
 - 14) 10 51 13 Metal Lockers
 - 15) 11 31 00 Residential Appliances
 - 16) 11 62 00 Entertainment Equipment
 - 17) 11 66 23 Gymnasium Equipment
 - 18) 11 95 00 Kilns
 - 19) 12 66 00 Telescoping Stands

1.2 PROJECT SPECIFIC CLARIFICATIONS

A. See attached Exhibit B.1

- A. Subcontractor to review and confirm all inwall blocking requirements are noted on submittals. Subcontractor is fully responsible for marking out inwall blocking locations in filed. Failure to complete this process will result in subcontractor being held fully responsible for any back charges from remediation to go back and modify or install additional blocking.
- B. Subcontractor to provide and install all wall and door protection systems complete including but not limited to sheets, trims, joint sealants (for locations between panels subcontractor to carry cost to color match sheets), primers, glues, corner guards, and rails.
- C. Subcontractor to coordinate and ensure proper spacing is completed at expansion joints or other wall trims requiring wall protection to not run continuously.

- D. Subcontractor to ensure wall protection is always transported win a flat manor, never rolled, or stored without proper support (i.e., sheet of 3/4" plywood or other rigid sheet material).
- E. Subcontractor to ensure all wall protection is stored in controlled temperature and humidity settings and all material is properly acclimated to building conditions prior to installation.
- F. Subcontractor to ensure all trims are free of "burrs" or other sharp edges. These should be filed down to create a smooth surface.
- G. Subcontractor to ensure finisher has provided clean, primed, smooth walls for proper install wall protection. Subcontractor prior to installation to identify any issues with substrates that need to be corrected prior to installation of wall protection.
- H. Subcontractor is responsible for confirming for all electrified accessories in submittals identify electrical requirements including but not limited to amps/voltage, plug style, and length of cords. Subcontractor to coordinate with electrical subcontractor on these items.
- I. Subcontractor to coordinate installation of mirrors based upon final centerline of light fixtures and plumbing fixtures to ensure all items are installed on the same centerline.
- J. Coordinate with blocking subcontractor to confirm openings and support blocking allow for Fire cabinets to be installed clean and flush with wall type.
- K. Subcontractor to provide and complete tagging (yearly inspection) just prior to substantial completion or directed by Pepper Superintendent depending on inspectors' requirements. Inspection and tagging should be completed by a certified company and person(s) example would include a company like Koorsen. Subcontractor to provide as part O&Ms certification document stating when the inspection occurred, quantity of fire extinguishers inspected and tagged, and company who completed this process.
- L. Provide and coordinate turnover of keys with Pepper.
- M. Provide and complete removal of all temporary coverings and labels in coordination with Pepper right before Substantial Completion. Contractor to complete all cleaning and polishing required from removal of temporary covering and labels.
- N. Subcontractor to provide and complete required coordination with blocking contractor to confirm layout, elevations, and sizing of blocking for all items under this subcontract.
- O. Subcontractor responsible for confirming finalized spacing for installation of lockers with other systems such as walls, ceilings, and casework. Subcontractor to provide any and all required filler strips.
- P. Provide and complete all required touch up from install. Lockers that are dented or have deep scratches in them will not be accepted for install and must be replaced.
- Q. Subcontractor to wipe down all systems after installation to ensure they are free and clean of any
- R. Subcontractor to install clocks provided by owner.

- S. For markerboard(s) and tackboards, ensure units are free of scratches prior to installing. Units shall then be covered with builder board and then removed prior to final clean.
- This scope of work includes a complete system fabrication of interior and exterior signage (decorative signs, dimensional letter signage, room identification signage, panel signage, etc.). This includes any anchors, hardware, concrete sleeves/inserts, welding, forming, coatings/paints, etc.
- U. Any blocking for interior or exterior signage is to be coordinated with the associated substrate subcontractor. Said blocking is to be furnished and installed by the substrate subcontractor.
- V. Any anchors or inserts integral to concrete, precast, or other non-gypsum wall systems (interior or exterior) are to be coordinated as part of the BIM process. Associated anchors or inserts are furnished as part of this subcontract. Installation locations and instructions/templates must be provided to the associated trade subcontractor and anchors and inserts provided with enough time for installation into associated systems.
- W. Coordination with associated substrate subcontractors for anchor/insert coordination/installation and any post installed anchor means and methods are included in this scope of work.
- X. Any anchors post installed into a wall system/installed at time of signage install are furnished and installed as part of this subcontract.
- Y. All field measuring prior to fabrication of signage is included in this scope of work.
- Z. All signage coatings per the project documents are included in this scope of work.
- AA. Weep holes at inconspicuous locations where water may accumulate are included in this scope of work.
- BB. Decorative grilles, frames, hardware, etc. are included in this scope of work.
- CC. Protect all interior and exterior signage for the duration of construction and include any associated final cleaning of signage/removal of protective coatings.
- DD. All aluminum and stainless-steel finishes for signage provided through this subcontract are included.
- EE. Concealed gaskets, joint fillers, insulation, and flashing integral to the signage are to be furnished and installed with the signage as part of this subcontract.
- FF. Any electrical requirements for signage where electrical service will be embedded in permanent construction (gypsum wall, concrete, precast, etc.) must be provided to electrical subcontractor in a timely manner so as not to delay the project schedule or create rework for other subcontractors.
- GG. All connectors for signage are to be furnished as part of this subcontract and turned over to the electrical subcontractor for installation.
- HH. Signage required to comply with design loads must have structural analysis calculations performed by a qualified professional engineer.

- II. All adhesives, tapes, and other non-mechanical fasteners for room identification signage are included in this scope of work. Follow manufacturer recommendations for signage installation. All mounting types must meet performance requirements and are subject to the same signage warranty if adhesion fails.
- JJ. Do not apply signage to any rated or security glazing. Signage applied to glazing must have a backplate installed.
- KK. Evaluation reports for signage as defined in the project documents is included in this scope of work.
- LL. Subcontractor shall coordinate installation of signage right before final clean of the building occurs.
- MM. Subcontractor to coordinate sizing of all final MEP attachments to kiln(s).
- NN. Subcontractor upon supply and install of residential equipment shall complete all water hook-ups, plugging power cords in, installing any surrounds, removal of all protective films, and perform cycle of items such as water dispensers/ice makers.

1.4 ALLOWANCES

- *Allowance funding may be removed by Pepper Construction at any point within the project at the sole discretion of Pepper Construction. Funds that have already been agreed to and have been spent from an allowance are no longer subject to removal.
- A. Composite cleaning crew: All subcontractors provide a laborer, on a weekly basis, to compile a composite crew that will be utilized for construction cleaning at the sole direction of Peppers' superintendent. Subcontractors will only be required to provide an individual only during the time the subcontractor or tiered subcontractors are performing work onsite. This shall be figured at 8 hours per week.

1.5 EXCLUSIONS

- A. The following items have been specifically excluded from this bid package:
 - 1. Payment and performance bond.
 - 2. Full time, non-working safety professional.

1.6 DESIGN ALTERNATES

- 1. Alternate #1: Site Aggregate Path Alternate.
- 2. Alternate #2: Playground Surfacing Alternate.
- 3. Alternate #3: Telescoping Stands and Retractable Audience Seating Alternate.
- 4. Alternate #4: Motor Operated Roller Shades Alternate.
- 5. Alternate #5: Area Rugs Alternate.

1.7 CONSTRUCTION ALTERNATES

- 1. Alternate #1: Site Concrete
- 2. Alternate #2: Joint Sealants, Acoustical Sealants, Firestopping

1.8 UNIT PRICES

A. Current labor rates provided at time of bid. Updated rates to be provided each year/at time of updates.

1.9 POST AWARD NOTES

A. None.

PRODUCTS (Not Used)

PART 2 - EXECUTION (Not Used)

EXHIBIT B – Bid Package 18 – Gym Flooring

PART 1 - GENERAL

1.1 PROJECT DRAWINGS & SPECIFICATION

A. Contract to include the following drawings for reference

Bartholomew Consolidated School Corporation – New Elementary #12 – Maple Grove

- A. For full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
- B. Scope Specific Specifications:
 - 1) 00 Procurement and Contracting Requirements
 - 2) 01 General Requirements
 - 3) 09 64 66 Wood Athletic Flooring

1.2 PROJECT SPECIFIC CLARIFICATIONS

A. See attached Exhibit B.1

1.3 SCOPE SPECIFIC CLARIFICATIONS

- A. Supply concrete depression details in a timely manner to not delay BP-02A Building and Site Concrete subcontractor.
- B. Subcontractor to provide and complete testing of concrete to confirm it is within the tolerances identified in the project documents and material manufacture requirements.
- C. Include high-moisture glues and adhesives in all floor areas covered under this scope of work. No exceptions.
- D. Include all necessary floor preparation and moisture testing as described in the construction documents.
- E. Include all mockups identified in the project documents. Any design review time of in place mockups is accounted for and no remobilizations will be submitted for this reason.
- F. Subcontractor to provide and complete install of temporary flooring protection (plastic and ram board) in accordance with specifications and manufacturers requirements. Subcontractor to provide five additional plastic carpet protection rolls to Pepper to utilize after subcontractor has demobilized.

1.4 EXCLUSIONS

- A. The following items have been specifically excluded from this bid package:
 - A. Payment and performance bond
 - B. Full time, non-working safety professional

1.5 ALLOWANCES

All allowances shall only be approved for use or deduction from subcontract by Pepper Construction through written notice. At the end or anytime at Pepper Constructions discretion any and all unused allowances can be deducted from the subcontract through a formal change order.

A. Composite cleaning crew: All subcontractors provide a laborer, on a weekly basis, to compile a composite crew that will be utilized for construction cleaning at the sole direction of Peppers' superintendent. Subcontractors will only be required to provide an individual only during the time the subcontractor or tiered subcontractors are performing work onsite. This shall be figured at 8 hours per week.

1.6 DESIGN ALTERNATES

- A. Alternate #1: Site Aggregate Path Alternate.
- B. Alternate #2: Playground Surfacing Alternate.
- C. Alternate #3: Telescoping Stands and Retractable Audience Seating Alternate.
- D. Alternate #4: Motor Operated Roller Shades Alternate.
- E. Alternate #5: Area Rugs Alternate.

1.7 CONSTRUCTION ALTERNATES

- A. Alternate #1: Site Concrete
- B. Alternate #2: Joint Sealants, Acoustical Sealants, Firestopping

1.8 UNIT PRICES

A. Current Labor Rates (do not include overhead and profit.

1.8 BREAKOUT PRICING (For Accounting Purposes Only):

- A. Hydraulic Cement Underlayment
- B. Resilient Base and Accessories
- C. Resilient Tile Flooring
- D. Tile Carpeting
- E. Machine Room Less Electric Traction Elevators (Flooring)

PRODUCTS (Not Used)

PART 2 - EXECUTION (Not Used)

EXHIBIT B – Bid Package 19 – Flooring

PART 1 - GENERAL

1.1 PROJECT DRAWINGS & SPECIFICATION

A. Contract to include the following drawings for reference

Bartholomew Consolidated School Corporation – New Elementary #12 – Maple Grove

- A. For full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
- B. Scope Specific Specifications:
 - 1) 00 Procurement and Contracting Requirements
 - 2) 01 General Requirements
 - 3) 09 65 13 Resilient Base and Accessories
 - 4) 09 65 20 Resilient Tile Flooring
 - 5) 09 65 23 Luxury Vinyl Tile Flooring
 - 6) 09 67 23 Resinous Flooring
 - 7) 09 68 13 Tile Carpeting
 - 8) 11 62 00 Entertainment Equipment (Partial)
 - 9) 12 48 53 Area Rugs (Alternate)
 - 10) 26 05 44 Sleeves and Sleeve Seals for Electrical Raceways and Cabling (Partial)

1.2 PROJECT SPECIFIC CLARIFICATIONS

A. See attached Exhibit B.1

- A. Furnish and install all base except for wood base (all product types across project).
- B. Furnish and install all wall hard board at epoxy base.
- C. Include minor floor preparation.
- D. Include all mockups identified in the project documents.
- E. Contract includes the furnish and install required for hydraulic cement underlayment scope including but not limited to the following items as shown on the project drawings and noted on project specifications:
 - A. Hydraulic cement underlayment
 - B. Reinforcement
 - C. Primer
 - D. Corrosion resistant coating
 - E. Surface sealer
 - F. Testing
 - G. Temporary protection

- F. For all flooring transitions with hydraulic underlayment ease slope over 2 feet.
- G. Subcontractor to provide and complete testing of concrete to confirm it is within the tolerances identified in the project documents and material manufacture requirements.
- H. Include high-moisture glues and adhesives in all floor areas covered under this scope of work. No exceptions.
- I. Include all necessary floor preparation and moisture testing as described in the construction documents.
- J. Furnish and install all thresholds, transitions, edge guards, and reducers. This also includes flooring buildups from different thickness floorings that abut and transitions from any flooring/concrete to wood athletic flooring. Only exceptions are Schluter's integral to tile systems.
- K. Furnish and install all edge strip transitions at door openings as indicated.
- L. In locations where other trades materials meet up with this subcontractor's scope of work, it shall always be this subcontractor's responsibility to complete the Joint Sealant.
- M. Subcontractor to provide and complete install of temporary flooring protection (plastic and ram board) in accordance with specifications and manufacturers requirements. Subcontractor to provide five additional plastic carpet protection rolls to Pepper to utilize after subcontractor has demobilized.
- N. Furnish, install, and remove protection as necessary to protect adjacent material not receiving coatings as part of this subcontract. Failure to complete this process will result in all remediation required to correct damage from overspray being back charged to the subcontractor.
- O. Subcontractor has included all surface preparation (including curing compound removal) and cleaning required for concrete surface treatment application.
- P. This scope of work includes concrete surface treatment/sealing at all sealed concrete locations. Also included is protection of applied locations as outlined in the project documents.
- Q. This scope of work includes detailing around all sleeves protruding through flooring.
- R. This scope of work includes all flooring and accessories in 11 62 00 Entertainment Equipment specifications. This includes cove base, green vinyl flooring, and any accessories/components for a complete system.

- A. The following items have been specifically excluded from this bid package:
 - A. Payment and performance bond
 - B. Full time, non-working safety professional

1.5 ALLOWANCES

All allowances shall only be approved for use or deduction from subcontract by Pepper Construction through written notice. At the end or anytime at Pepper Constructions discretion any and all unused allowances can be deducted from the subcontract through a formal change order.

- A. Composite cleaning crew: All subcontractors provide a laborer, on a weekly basis, to compile a composite crew that will be utilized for construction cleaning at the sole direction of Peppers' superintendent. Subcontractors will only be required to provide an individual only during the time the subcontractor or tiered subcontractors are performing work onsite. This shall be figured at 8 hours per week.
- B. Include a \$10,000 allowance for miscellaneous flooring Work. Allowances must be pre-approved by Pepper Construction prior to proceeding with allowance work.
- C. Include a \$20,000 allowance for major floor leveling.

1.6 DESIGN ALTERNATES

- A. Alternate #1: Site Aggregate Path Alternate.
- B. Alternate #2: Playground Surfacing Alternate.
- C. Alternate #3: Telescoping Stands and Retractable Audience Seating Alternate.
- D. Alternate #4: Motor Operated Roller Shades Alternate.
- E. Alternate #5: Area Rugs Alternate.

1.7 CONSTRUCTION ALTERNATES

- A. Alternate #1: Site Concrete
- B. Alternate #2: Joint Sealants, Acoustical Sealants, Firestopping

1.8 UNIT PRICES

A. Current Labor Rates (do not include overhead and profit.

1.8 BREAKOUT PRICING (For Accounting Purposes Only):

- A. Hydraulic Cement Underlayment
- B. Resilient Base and Accessories
- C. Resilient Tile Flooring
- D. Tile Carpeting
- E. Sheet Carpeting
- F. Machine Room Less Electric Traction Elevators (Flooring)

PRODUCTS (Not Used)

PART 2 - EXECUTION (Not Used)

PART 1 - GENERAL

1.1 PROJECT DRAWINGS & SPECIFICATION

A. Contract to include the following drawings for reference.

Bartholomew Consolidated School Corporation – New Elementary #12 – Maple Grove

- 1. For a full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
- 2. Scope Specific Specifications:
 - 1) 00 Procurement and Contracting Requirements
 - 2) 01 General Requirements
 - 3) 03 35 00 Concrete Surface Treatment
 - 4) 06 40 23 Interior Architectural Woodwork (Partial)
 - 5) 08 31 13 Access Doors and Frames (Partial)
 - 6) 09 91 23 Interior Painting
 - 7) 09 96 00 High-Performance Coating
 - 8) 09 97 37 Green Screen Coating
 - 9) 11 62 00 Entertainment Equipment (Partial)
 - 10) 20 00 10 Common Work Results for Fire Suppression, Plumbing and HVAC (Partial)
 - 11) 20 00 50 Common Materials and Methods for Fire Suppression, Plumbing and HVAC (Partial)
 - 12) 27 11 00 Communications Equipment Room Fittings (Partial)

1.2 PROJECT SPECIFIC CLARIFICATIONS

A. See attached Exhibit B.1

- A. Subcontractor to provide fire cabinets and store all flammable materials under this contractor's scope.
- B. Furnish, install, and remove protection as necessary to protect adjacent material from receiving coatings as part of this subcontract. Failure to complete this process will result in all remediation required to correct damage from overspray being back charged to the subcontractor.
- C. Furnish, install, and remove "WET PAINT" signage.
- D. Preparation of substrates including moisture testing is included in this subcontract.
- E. This subcontract includes all surface preparation, block fillers, priming, staining, and surface treatment specified in the project documents unless explicitly noted to be excluded.

- F. Except for the following exclusions, this subcontract includes the painting of all exposed surfaces on the project. The following are excluded: pre-finished items, concealed surfaces, finished metal surfaces (stainless steel or aluminum not called out to receive coating), operating parts, and labels.
- G. Coordinate with other subcontractors for items to receive hardware, glass, etc. that must first be painted. If coordination does not occur, it is the responsibility of this subcontractor to remove and/or protect components during preparation and application of coating.
- H. This subcontract includes both interior and exterior paint and coating systems as well as high-performance coatings.
- I. This scope of work includes painting of interior architectural woodwork where indicated in the project documents. Shop finished items are the responsibility of BP-21 Millwork subcontractor.
- J. This scope of work includes painting access doors/panels as indicated in the project documents.
- K. Ensure all project installation requirements/field conditions are met prior to installation.
- L. Testing as outlined in the specifications is included in this scope of work. Coordinate with testing agency to ensure timing requirements are met. Provide all test results from third party testing agency within 3 days of test occurring.
- M. Overspray removal and cleaning is included in this scope of work.
- N. Furnish and install all dry erase coatings complete.
- O. Furnish and install all green screen coatings complete.
- P. Surface preparation, cleaning, ventilation, and protection through remaining construction are included in this scope of work.
- Q. This subcontract includes exterior painting including bollards and landscape posts with Tnemec coating system or equal per project documents.
- R. This subcontract includes painting of structure as identified in the project documents.
- S. BP-20 subcontractor includes cleaning of field welds and abraded areas of shop paints and painting exposed areas immediately after erecting hangers and supports for MEP systems. Use same materials as used for shop painting. This subcontract includes galvanized MEP surfaces as well.
- T. BP-20 subcontractor to include painting of MEP insulation as outlined in the project documents. This excludes aluminum and stainless-steel insulation jackets.
- U. This subcontract includes spot prime coating to match adjacent coat of marred surfaces of prime coated equipment and piping.
- V. Coordinate with BC-10A HVAC and BC-11D Access Controls & HVAC Rough-Ins/Pathways subcontractors for raceway conduit and junction box cover plate painting for HVAC DDC system.

- W. Subcontract includes painting all surface mounted exposed conduit, raceways, boxes, and electrical equipment according to the project documents. Those which are not to be painted must be protected.
- X. This subcontract includes cleaning damaged and disturbed areas on MEP systems, surface preparation, and touch-up/repair of coatings.
- Y. This subcontract includes all paint for identification including necessary stencils. Including but not limited to rated wall assemblies. Coordinate with MEP subcontractors as required.
- Z. This subcontract includes plywood backboard painting (including but not limited to data rooms, electrical rooms, and mechanical rooms). Ensure fire rated labels are protected from paint so the label remains complete and visible after painting.
- AA. The subcontractor shall prime and paint all MEP systems (including but not limited to pipe, duct, conduits, and pathways) identified in project documents. Example this subcontract includes painting of all exposed EMT pathways for the fire alarm system as identified in the project documents.
- BB. Subcontractor upon completion of painting stair systems to clean stair tread inserts to remove all "construction build up".
- CC. Subcontractor has included all surface preparation (including curing compound removal) and cleaning required for concrete surface treatment application.
- DD. This scope of work includes concrete surface treatment/sealing at all sealed concrete locations. Also included is protection of applied locations as outlined in the project documents.
- EE. This scope of work includes detailing around all sleeves protruding through flooring.
- FF. This scope of work includes painting of base at Cyclorama room.

- A. The following items have been specifically excluded from this bid package:
 - 1. Payment and performance bond.
 - 2. Full time, non-working safety professional.

1.5 ALLOWANCES

All allowances shall only be approved for use or deduction from subcontract by Pepper Construction through written notice. At the end or anytime at Pepper Constructions discretion any and all unused allowances can be deducted from the subcontract through a formal change order.

A. Composite cleaning crew: All subcontractors provide a laborer, on a weekly basis, to compile a composite crew that will be utilized for construction cleaning at the sole direction of Peppers' superintendent. Subcontractors will only be required to provide an individual only during the time

the subcontractor or tiered subcontractors are performing work onsite. This shall be figured at 8 hours per week.

- B. Include \$20,000 touch-up and overtime allowance.
- C. Include \$20,000 punchlist/turnover additional touchup allowance.

1.6 DESIGN ALTERNATES

- 1. Alternate #1: Site Aggregate Path Alternate.
- 2. Alternate #2: Playground Surfacing Alternate.
- 3. Alternate #3: Telescoping Stands and Retractable Audience Seating Alternate.
- 4. Alternate #4: Motor Operated Roller Shades Alternate.
- 5. Alternate #5: Area Rugs Alternate.

1.7 CONSTRUCTION ALTERNATES

- 1. Alternate #1: Site Concrete
- 2. Alternate #2: Joint Sealants, Acoustical Sealants, Firestopping

1.8 UNIT PRICES

A. Current Labor Rates (do not include overhead and profit).

1.9 BREAKOUTS

- A. Specialty Wall Coverings
- B. Wall Painting
- C. Structure and MEP painting
- D. High-Performance Coatings

PRODUCTS (Not Used)

PART 2 - EXECUTION (Not Used)

1.1 PROJECT DRAWINGS & SPECIFICATION

A. Contract to include the following drawings for reference:

Bartholomew Consolidated School Corporation – New Elementary #12 – Maple Grove:

- 1. For a full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
- 2. Scope Specific Specifications:
 - 1) 00 Procurement and Contracting Requirements
 - 2) 01 General Requirements
 - 3) 05 50 00 Metal Fabrications (Partial)
 - 4) 06 40 23 Interior Architectural Woodwork
 - 5) 07 92 00 Joint Sealants (Partial)
 - 6) 12 32 16 Manufactured Plastic-Laminated-Faced Casework
 - 7) 12 36 61 Solid Surface Countertops

1.2 PROJECT SPECIFIC CLARIFICATIONS

A. See attached Exhibit B.1

- A. Millwork subcontractor to furnish and install all steel framing and supports for millwork and millwork related items including countertops.
- B. This scope of work includes coordination with Interior & Exterior Framing subcontractor for type and location of required in-wall blocking for millwork and millwork supports. Coordination of blocking must be completed in line with the project schedule. Additional costs for missed blocking due to failure to coordinate will not be paid.
- C. Locate concealed framing, blocking, and reinforcements that support millwork by field measurements before being concealed and indicate measurements on shop drawings. Subcontractor will be responsible for visiting the site once framing is installed on each level (one trip per level) and marking out studs for location blocking is to be installed for casework. Coordination with inwall systems such as MEP rough-ins and pathways may result in modifications to standard blocking. These modifications shall be recorded by subcontractor and provided as As-Builts for the project.
- D. Ensure fire-retardant-treated materials are properly labeled per the project documents.
- E. All accessories and mounting equipment for a complete system for millwork scope items except for in-wall blocking are included in this scope of work. This includes but is not limited to shims, laminate, adhesives, stains, hanging strips, furring, hardware, etc.
- F. Anchors at interior faces of exterior walls and at floors must be nonferrous-metal or hot-dip galvanized anchors.

- G. All millwork prep, priming, and finishing should be completed at fabrication shop except for final touchup, cleaning, and polishing after installation. Disassemble components only as necessary for installation where shipment/installation constraints do not allow for complete units to be brought to site.
- H. Interior architectural woodwork must be conditioned to installing space for no less than 72 hours prior to installation.
- I. Installation of millwork components must be coordinated around the project schedule to ensure building climate meets requirements for millwork and to eliminate/minimize potential for damage to millwork. BC-21 Millwork contractor is responsible for protecting millwork and countertops supplied as part of this scope and removing/disposing of necessary protection prior to the completion of the project. All countertops have temporary ram board installed at a minimum.
- J. Furnish and install all glazing in millwork.
- K. Millwork scope includes all wood base furnished and installed. This includes installing finish and protective coatings.
- L. Where millwork scope items (including countertops) are indicated to fit to or within other construction, verify field dimensions before fabrication. Coordinate fabrication schedule with construction progress and schedule to avoid delaying work.
- M. Millwork subcontractor is responsible for furnishing and installing all plastic paneling, including necessary hardware/adhesives/accessories/etc. for a complete system.
- N. Non-integral sealants (sealant joints that are accessible after installation of millwork/countertops) and sealants which are not structural to the millwork/countertop systems will be furnished and installed by BC-07 Joint Sealants subcontractor.
- O. Substrate preparation for plastic paneling is included as part of this subcontract.
- P. All accessories for countertops including sub tops, metal splines, grommets, and caps are included as part of this subcontract.
- Q. Mockups indicated in the project documents are included as part of this subcontract.
- R. Subcontractor to coordinate and complete all plumbing fixture cutouts with Plumbing subcontractor. For items requiring shop mounting (integral sinks for example), coordinate delivery with Plumbing subcontractor and provide necessary fabrication schedule information to Pepper and Plumbing subcontractor to avoid any delays in the project schedule. Coordinate with Pepper for all other countertop mounted accessories/appliances as accessible.
- S. It is the responsibility of the Millwork subcontractor to cut (shop or field depending on project documents) all penetrations through countertops, backsplash, and other millwork components.
- T. Subcontractor to deliver countertops oversized, field scribe and field cut.
- U. The subcontractor shall ensure installation of countertops occurs prior to installation of backsplash is scheduled to occur or be required to pick up all back charges for delaying installation.

- V. Subcontractor to ensure all sills are onsite and ready for installation after the first coat of paint is completed for each level. The subcontractor shall confirm if sills are being filed cut to size or cut at shop. If field measuring and cutting to size at shop coordinate with Pepper to set up dates to measure after gypsum is hung at each level.
- W. The subcontractor shall provide and install builder board over all finished tops to protect from construction damage.

- A. The following items have been specifically excluded from this bid package:
 - 1. Payment and performance bond.
 - 2. Full time, non-working safety professional.

1.5 ALLOWANCES

Allowance funding may be removed by Pepper Construction at any point within the project at the sole discretion of Pepper Construction. Funds that have already been agreed to and have been spent from an allowance are no longer subject to removal.

A. Composite cleaning crew: All subcontractors provide a laborer, on a weekly basis, to compile a composite crew that will be utilized for construction cleaning at the sole direction of Peppers' superintendent. Subcontractors will only be required to provide an individual only during the time the subcontractor or tiered subcontractors are performing work onsite. This shall be figured at 8 hours per week.

1.6 DESIGN ALTERNATES

- 1. Alternate #1: Site Aggregate Path Alternate.
- 2. Alternate #2: Playground Surfacing Alternate.
- 3. Alternate #3: Telescoping Stands and Retractable Audience Seating Alternate.
- 4. Alternate #4: Motor Operated Roller Shades Alternate.
- 5. Alternate #5: Area Rugs Alternate.

1.7 CONSTRUCTION ALTERNATES

- 1. Alternate #1: Site Concrete
- 2. Alternate #2: Joint Sealants, Acoustical Sealants, Firestopping

1.8 UNIT PRICES

A. Current labor rates provided at time of bid. Updated rates to be provided each year/at time of updates.

1.9 POST AWARD NOTES

PRODUCTS (Not Used)

PART 2 - EXECUTION (Not Used)

EXHIBIT B – Bid Package 22 – Asphalt Paving

PART 1 - GENERAL

1.1 PROJECT DRAWINGS & SPECIFICATION

A. Contract to include the following drawings for reference.

Bartholomew Consolidated School Corporation – New Elementary #12 – Maple Grove

- 1. For full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
- 2. Scope Specific Specifications:
 - 1) 00 Procurement and Contracting Requirements
 - 2) 01 General Requirements
 - 3) 32 05 16 Aggregate Pavements
 - 4) 32 11 23 Granular Base
 - 5) 32 12 16 Asphalt Paving
 - 6) 32 17 23 Paving Markings

1.2 PROJECT SPECIFIC CLARIFICATIONS

A. See attached Exhibit B.1

- A. Paving contractor is responsible to check substrate prior to placing base for elevation and compaction.
- B. Mix designs and subgrade material to be submitted within 10 days of contract.
- C. Pavement markings layout to be submitted for approval prior to placement based on the project schedule so as not to delay the schedule.
- D. Coring/patching for new/relocated signs that fall in new or existing asphalt to be included.
- E. It will be this subcontractors' responsibility to protect the existing paved areas, sidewalks, curbs, landscaped areas to remain, etc. from damage. Any damage caused by this subcontractor's scope of work will need to be repaired at their expense. If damage is not repaired, then Pepper Construction will make necessary repairs and will back charge.
- F. Include additional mobilization of coming back onsite prior to install of new curbs and asphalt to trim out damaged asphalt by saw cutting edge of asphalt.
- G. Subcontractor to provide and complete patch back of all utility tie ins/taps where existing asphalt to remain it removed. Subcontractor at patch back locations to provide full depth asphalt matching of existing conditions.
- H. Subcontractor to provide and complete all clean-up of excess asphalt left from paving process.

- I. Provide as-built survey to confirm elevations are within tolerance as indicated in project documents.
- J. Subcontractor is to include install and removal of temporary pavement markings. Any asphalt repairs necessary from temporary pavement marking removal is to be included in this subcontract.
- K. This subcontract includes reinstall of all gutter drainage grilles and frames, manhole frames, and other utility frames in asphalt.
- L. Pavement protection per project documents is included in this scope of work (10 days or until surface temperature is less than 140 degrees F).
- M. Follow the more stringent of the manufacturer installation instructions and project document instructions. For pavement markings, pavement surfaces must have had at least 14 days to cure before application of markings.
- N. Protect pavement markings per manufacturer specifications before allowing traffic over marked surfaces.
- O. This subcontract includes aggregate base under asphalt pavements. Compacted subgrade to be provided by others.
- P. This subcontract includes re-dress and fine grading of aggregate base under asphalt pavements prior to placement of binder course.
- Q. This subcontract includes standard duty, heavy duty, and ROW asphalt binder, tack coat, and surface courses.
- R. This subcontract includes wheel stops (ref detail 9/L600).
- S. This subcontract includes site signage and associated foundations/footings (ref keynotes S01,S02,S03,S04,S05/L10X, detail 219/C800, detail 7/L601, and detail 6/L602).
- T. The subcontractor will be responsible for all excess soil generated from BP-22 scope installation. Excess soils to be removed immediately.

- A. The following items have been specifically excluded from this bid package:
 - 1. Payment and performance bond.
 - 2. Full time, non-working safety professional.
 - 3. Site concrete
 - 4. Aggregate base under site concrete
 - 5. Soil stabilization
 - 6. Playground surfacing

1.5 ALLOWANCES

All allowances shall only be approved for use or deduction from subcontract by Pepper Construction through written notice. At the end or anytime at Pepper Constructions discretion any and all unused allowances can be deducted from the subcontract through a formal change order.

- A. Composite cleaning crew: All subcontractors provide a laborer, on a weekly basis, to compile a composite crew that will be utilized for construction cleaning at the sole direction of Peppers' superintendent. Subcontractors will only be required to provide an individual only during the time the subcontractor or tiered subcontractors are performing work onsite. This shall be figured at 8 hours per week. Value \$______
- B. Asphalt replacement at construction entrances: Include allowance pricing for replacement (saw cutting, removal/disposal, and new install of asphalt system) at entire construction entrance footprint at North and South sides of project site. Value \$20,000.
- C. Heavy duty binder replacement at construction roads: \$25,000.

1.6 DESIGN ALTERNATES

- 1. Alternate #1: Site Aggregate Path Alternate.
- 2. Alternate #2: Playground Surfacing Alternate.
- 3. Alternate #3: Telescoping Stands and Retractable Audience Seating Alternate.
- 4. Alternate #4: Motor Operated Roller Shades Alternate.
- 5. Alternate #5: Area Rugs Alternate.

1.7 CONSTRUCTION ALTERNATES

- 1. Alternate #1: Site Concrete
- 2. Alternate #2: Joint Sealants, Acoustical Sealants, Firestopping

1.8 UNIT PRICES

A. Current Labor Rates (do not include overhead and profit).

1.9 BREAKOUTS

- A. Provide following rates:
 - 1. 2025
 - a. Rate for single Mobilization/Demobilization (Based upon bringing delivery of equipment paver, roller, and skid steer. Base equipment needed to perform paving). Value \$
 - b. Rate for stone base tri-axle rate delivered to site. Value \$_____
 - c. Rate for Intermediate tri-axle rate delivered to site. Value \$
 - d. Rate for Top lift tri-axle rate delivered to site. Value \$
 - e. Rate for 8hr Day for placement. Value \$
 - 2. 2026

	a.	Rate for single Mobilization/Demobilization (Based upon bringing delivery of
		equipment - paver, roller, and skid steer. Base equipment needed to perform
		paving). Value \$
	b.	Rate for stone base – tri-axle rate delivered to site. Value \$
	c.	Rate for Intermediate – tri-axle rate delivered to site. Value \$
	d.	Rate for Top lift – tri-axle rate delivered to site. Value \$
	e.	Rate for 8hr Day for placement. Value \$
3.	2027	
	a.	Rate for single Mobilization/Demobilization (Based upon bringing delivery of
		equipment – paver, roller, and skid steer. Base equipment needed to perform
		paving). Value \$
	b.	Rate for stone base – tri-axle rate delivered to site. Value \$
	c.	Rate for Intermediate – tri-axle rate delivered to site. Value \$
	d.	Rate for Top lift – tri-axle rate delivered to site. Value \$
	e.	Rate for 8hr Day for placement. Value \$
4		

4.

5.

Aggregate Under Asphalt
Asphalt Paving
Pavement Markings/Striping, Wheel Stops, Site Signage 6.

PRODUCTS (Not Used)

PART 2 - EXECUTION (Not Used)

EXHIBIT B – Bid Package 23 – Window Treatments

PART 1 - GENERAL

1.1 PROJECT DRAWINGS & SPECIFICATION

A. Contract to include the following drawings for reference.

Bartholomew Consolidated School Corporation – New Elementary #12 – Maple Grove

- 1. For full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
- 2. Scope Specific Specifications:
 - 1) 00 Procurement and Contracting Requirements
 - 2) 01 General Requirements
 - 3) 06 10 00 Miscellaneous Rough Carpentry
 - 4) 12 24 13 Roller Window Shades
 - 5) 26 05 00 Common Work Results for Electrical

1.2 PROJECT SPECIFIC CLARIFICATIONS

A. See attached Exhibit B.1

- A. Blocking for manual and electronic window shades is furnished and installed by BP-16A Interior and Exterior Framing, Sheathing, Gypsum, Blocking, and Finishing subcontractor. Information on location, size, type, etc. of blocking to be provided by BP-23 Window Treatments subcontractor. Information to be provided so as not to delay the project schedule.
- B. All other trim including front fascia, endcap covers, recessed shade pocket, closure panel/wall clips, side channels, and bottom (sill) channels or angles are all furnished and installed as part of this scope of work.
- C. Outside of items specifically noted to be by others, this subcontract includes all hardware, material, tools, supervision, and installation necessary for a complete window treatment system.
- D. All window treatments shown in ceilings are to be independently supported from ceiling system. This subcontract includes furnish and install of support system.
- E. All joint sealants required at window treatment trim, or edge of system to be furnished and installed by BP-07 Joint Sealants subcontractor. Joint sealants integral to the window treatment system (endcap cover to recessed shade pocket for example) are included in this scope of work.
- F. Power to motorized window shades by BP-11A Electrical subcontractor. Final connections are included in this scope of work.

- G. All control components material, installation, and integration are included in this scope of work for motorized window shades.
- H. Follow batten and seam requirements outlined in the project documents for shade bands.
- I. Cleaning and protection of window treatments is included in this scope of work.
- J. This scope of work includes furnishing and installing a complete curtain and drape system at locations shown in the project documents. This includes but is not limited to drapery tracks and fabrics, textile trims, drape fabrication, mounting brackets, fasteners, samples, carriers, controls, mockups, etc.
- K. Included in this scope of work is field measuring at all locations.
- L. Testing and adjusting for window shades, curtains, and drapes is included in this scope of work.
- M. Steam and dress down drapes for crease and wrinkle free installation.

- A. The following items have been specifically excluded from this bid package:
 - 1. Payment and performance bond.
 - 2. Full time, non-working safety professional.

1.5 ALLOWANCES

All allowances shall only be approved for use or deduction from subcontract by Pepper Construction through written notice. At the end or anytime at Pepper Constructions discretion any and all unused allowances can be deducted from the subcontract through a formal change order.

A. Composite cleaning crew: All subcontractors provide a laborer, on a weekly basis, to compile a composite crew that will be utilized for construction cleaning at the sole direction of Peppers' superintendent. Subcontractors will only be required to provide an individual only during the time the subcontractor or tiered subcontractors are performing work onsite. This shall be figured at 8 hours per week.

1.6 DESIGN ALTERNATES

- 1. Alternate #1: Site Aggregate Path Alternate.
- 2. Alternate #2: Playground Surfacing Alternate.
- 3. Alternate #3: Telescoping Stands and Retractable Audience Seating Alternate.
- 4. Alternate #4: Motor Operated Roller Shades Alternate.
- 5. Alternate #5: Area Rugs Alternate.

1.7 CONSTRUCTION ALTERNATES

- 1. Alternate #1: Site Concrete
- 2. Alternate #2: Joint Sealants, Acoustical Sealants, Firestopping

1.8 UNIT PRICES

A. Current Labor Rates (do not include overhead and profit).

PRODUCTS (Not Used)

PART 2 - EXECUTION (Not Used)

EXHIBIT B – Bid Package 24 – Tiling

PART 1 - GENERAL

1.1 PROJECT DRAWINGS & SPECIFICATION

A. Contract to include the following drawings for reference

Bartholomew Consolidated School Corporation – New Elementary #12 – Maple Grove

- 1. For full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
- 2. Scope Specific Specifications:
 - 1) 00 Procurement and Contracting Requirements
 - 2) 01 General Requirements
 - 3) 09 30 00 Tiling

1.2 PROJECT SPECIFIC CLARIFICATIONS

A. See attached Exhibit B.1

- A. The following items are to be specifically included in this bid package:
 - 1. Contract includes the furnish and install required for tiling scope including but not limited to the following items as shown on the project drawings and noted on project specifications:
 - a. Floor and wall tile
 - b. Trim units
 - c. Metal edge trims
 - d. Metal edge profiles at outside corners
 - e. Tile backing panels
 - f. Waterproofing membrane
 - g. Crack isolation membrane
 - h. Metal edge strips
 - 2. Contractor to provide and complete install of all required backing panels at all tile locations.
 - 3. Contractor to provide and complete install of all required tile adhesives, thin sets, and mounting materials.
 - 4. Contractor to provide and complete install of all metal edge strips/Schluter transition trims both between tile and at outside (perimeter) tile locations.
 - 5. Contractor to provide and complete all required cleaning of tile upon install being completed.

- 6. Contractor to provide and complete sealer scope for grout joints.
- 7. Contractor to provide and complete install of required temporary protection.

- A. The following items have been specifically excluded from this bid package:
 - 1. Payment and performance bond.
 - 2. Full time, non-working safety professional.
 - 3. Shower inserts.
 - 4. Furnishing of access panels.

1.5 ALLOWANCES

All allowances shall only be approved for use or deduction from subcontract by Pepper Construction through written notice. At the end or anytime at Pepper Constructions discretion any and all unused allowances can be deducted from the subcontract through a formal change order.

A. Composite cleaning crew: All subcontractors provide a laborer, on a weekly basis, to compile a composite crew that will be utilized for construction cleaning at the sole direction of Peppers' superintendent. Subcontractors will only be required to provide an individual only during the time the subcontractor or tiered subcontractors are performing work onsite. This shall be figured at 8 hours per week.

1.6 DESIGN ALTERNATES:

- 1. Alternate #1: Site Aggregate Path Alternate.
- 2. Alternate #2: Playground Surfacing Alternate.
- 3. Alternate #3: Telescoping Stands and Retractable Audience Seating Alternate.
- 4. Alternate #4: Motor Operated Roller Shades Alternate.
- 5. Alternate #5: Area Rugs Alternate.

1.7 CONSTRUCTION ALTERNATES

- 1. Alternate #1: Site Concrete
- 2. Alternate #2: Joint Sealants, Acoustical Sealants, Firestopping

1.8 UNIT PRICES

A. Current Labor Rates (do not include overhead and profit).

1.8 BREAKOUT PRICING (For Accounting Purposes Only):

B. Current Labor Rates (without overhead and profit)

PRODUCTS (Not Used)

PART 2 - EXECUTION (Not Used)

EXHIBIT B – Bid Package 25 – Operable Partitions

PART 1 - GENERAL

1.1 PROJECT DRAWINGS & SPECIFICATION

A. Contract to include the following drawings for reference.

Bartholomew Consolidated School Corporation – New Elementary #12 – Maple Grove

- 1. For full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
- 2. Scope Specific Specifications:
 - 1) 00 Procurement and Contracting Requirements
 - 2) 01 General Requirements
 - 3) 06 10 00 Miscellaneous Rough Carpentry
 - 4) 10 22 38 Operable Panel Partitions
 - 5) 26 05 00 Common Work Results for Electrical

1.2 PROJECT SPECIFIC CLARIFICATIONS

A. See attached Exhibit B.1

- A. Blocking for operable partitions is furnished and installed by BP-16A Interior and Exterior Framing, Sheathing, Gypsum, Blocking, and Finishing subcontractor. Information on location, size, type, etc. of blocking to be provided by BP-25 Operable Partitions subcontractor. Information to be provided so as not to delay the project schedule.
- B. All embedded components are furnished as part of this subcontract and must be supplied to the associated subcontractor in a timely manner to not cause delays to the project.
- C. All dead loads of roofing, flooring, ceilings, etc. must be installed before operable partitions are installed, coordinate with associated trades.
- D. This subcontract includes a complete system furnish and install including all trim pieces, rails, flooring rails and trims, etc.
- E. Power to operable partitions by BP-11A Electrical subcontractor. Final connections are included in this scope of work.
- F. All control components material, installation, and integration are included in this scope of work for operable partitions.
- G. Included in this scope of work is field measuring at all locations.
- H. Furnish and install of adjustable support system is included with this scope of work.

- A. The following items have been specifically excluded from this bid package:
 - 1. Payment and performance bond.
 - 2. Full time, non-working safety professional.

1.5 ALLOWANCES

All allowances shall only be approved for use or deduction from subcontract by Pepper Construction through written notice. At the end or anytime at Pepper Constructions discretion any and all unused allowances can be deducted from the subcontract through a formal change order.

A. Composite cleaning crew: All subcontractors provide a laborer, on a weekly basis, to compile a composite crew that will be utilized for construction cleaning at the sole direction of Peppers' superintendent. Subcontractors will only be required to provide an individual only during the time the subcontractor or tiered subcontractors are performing work onsite. This shall be figured at 8 hours per week.

1.6 DESIGN ALTERNATES

- 1. Alternate #1: Site Aggregate Path Alternate.
- 2. Alternate #2: Playground Surfacing Alternate.
- 3. Alternate #3: Telescoping Stands and Retractable Audience Seating Alternate.
- 4. Alternate #4: Motor Operated Roller Shades Alternate.
- 5. Alternate #5: Area Rugs Alternate.

1.7 CONSTRUCTION ALTERNATES

- 1. Alternate #1: Site Concrete
- 2. Alternate #2: Joint Sealants, Acoustical Sealants, Firestopping

1.8 UNIT PRICES

A. Current Labor Rates (do not include overhead and profit).

PRODUCTS (Not Used)

PART 2 - EXECUTION (Not Used)

BP 26 was removed



EXHIBIT B – Bid Package 27 – Food Service Equipment

PART 1 - GENERAL

1.1 PROJECT DRAWINGS & SPECIFICATION

A. Contract to include the following drawings for reference.

Bartholomew Consolidated School Corporation – New Elementary #12 – Maple Grove

- 1. For full listing of drawings and specifications reference Exhibit A Drawings and Specifications Logs.
- 2. Scope Specific Specifications:
 - 1) 00 Procurement and Contracting Requirements
 - 2) 01 General Requirements
 - 3) 11 40 00 Food Service Equipment

1.2 PROJECT SPECIFIC CLARIFICATIONS

A. See attached Exhibit B.1

- A. Shop drawings showing all necessary work by others must be submitted in a timely manner so as not to delay other scopes of work (follow submittal schedule provided with schedule exhibit). This includes all curbs, sleeves, power, HVAC, plumbing, blocking, etc.
- B. Submit with shop drawings a full list of components to be provided as part of this subcontract for others to install as well as any equipment requirements (hookup sizes/requirements, power requirements, etc.)
- C. All components supplied under this subcontract but installed by others must be furnished in a timely manner so as not to delay installation by others.
- D. All integral piping, ducting, and wiring for all components and equipment provided in this scope of work shall be completed under this scope of work. Final connections only shall be by others. Any equipment with pathways only which require additional work by others will result in a formal back charge to the BP-27 subcontractor.
- E. All testing, balancing, and adjusting of components/equipment provided by this scope of work is included.
- F. This subcontract includes a complete system furnish and install including all trim pieces, grommets, escutcheons, etc.
- G. Included in this scope of work is field measuring at all locations.
- H. Cleaning and restoration of finishes is included in this scope of work just prior to turnover to ownership.

- A. The following items have been specifically excluded from this bid package:
 - 1. Payment and performance bond.
 - 2. Full time, non-working safety professional.

1.5 ALLOWANCES

All allowances shall only be approved for use or deduction from subcontract by Pepper Construction through written notice. At the end or anytime at Pepper Constructions discretion any and all unused allowances can be deducted from the subcontract through a formal change order.

A. Composite cleaning crew: All subcontractors provide a laborer, on a weekly basis, to compile a composite crew that will be utilized for construction cleaning at the sole direction of Peppers' superintendent. Subcontractors will only be required to provide an individual only during the time the subcontractor or tiered subcontractors are performing work onsite. This shall be figured at 8 hours per week. Value: \$______

1.6 DESIGN ALTERNATES

- 1. Alternate #1: Site Aggregate Path Alternate.
- 2. Alternate #2: Playground Surfacing Alternate.
- 3. Alternate #3: Telescoping Stands and Retractable Audience Seating Alternate.
- 4. Alternate #4: Motor Operated Roller Shades Alternate.
- 5. Alternate #5: Area Rugs Alternate.

1.7 CONSTRUCTION ALTERNATES

- 1. Alternate #1: Site Concrete
- 2. Alternate #2: Joint Sealants, Acoustical Sealants, Firestopping

1.8 UNIT PRICES

A. Current Labor Rates (do not include overhead and profit).

PRODUCTS (Not Used)

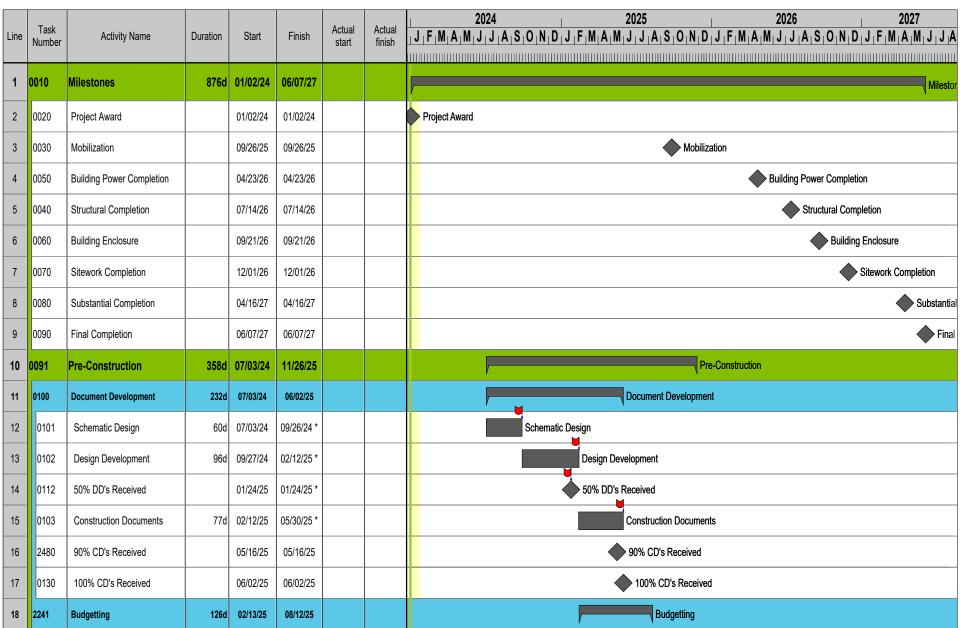
PART 2 - EXECUTION (Not Used)

PROJECT SCHEDULE





Print Date: 6/12/2025 Data Date: 1/1/2024



Revision Number:

Revision Comments:



Print Date: 6/12/2025

Data Date: 1/1/2024

Line	Task Number	Activity Name	Duration	Start	Finish	Actual start	Actual finish	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
19	2340	100% DD Budget	20d	02/13/25	03/12/25			100% DD Budget
20	2350	GMP Creation	6d	07/03/25	07/11/25			GMP Creation
21	2360	GMP to BCSC/Review	21d	07/14/25	08/11/25			GMP to BCSC/Review
22	2370	Executed GMP		08/12/25	08/12/25			Executed GMP
23	0113	Design Investigation	15d	02/13/25	03/05/25			Design Investigation
24	0104	Soils Testing and Analysis (Design)	15d	02/13/25	03/05/25			Soils Testing and Analysis (Design)
25	0120	Permiting	126d	06/02/25	11/26/25			Permiting
26	0140	Construction Design Release (State)	30d	06/02/25	07/14/25			Construction Design Release (State)
27	0150	Fire Department Permit	30d	06/02/25	07/14/25			Fire Department Permit
28	0151	Fire Suppression System (State)	30d	10/16/25	11/26/25			Fire Suppression System (State)
29	0160	Right of Way Permit (City)	30d	06/02/25	07/14/25			Right of Way Permit (City)
30	2420	Improvement Location Permit (City) Preliminary Review (CDR in Hand Before Issuing)	30d	06/02/25	07/14/25			Improvement Location Permit (City) Preliminary Review (CDR in Hand Before Issuing)
31	0590	Improvement Location Permit (City) (Final Issuance)	10d	07/15/25	07/28/25			Improvement Location Permit (City) (Final Issuance)
32	0600	Building Sewer Lateral Permit (Columbus City Utilities)	30d	06/02/25	07/14/25			Building Sewer Lateral Permit (Columbus City Utilities)
33	0610	Sanitary Sewer Facility Permit (Columbus City Utilities)	30d	06/02/25	07/14/25			Sanitary Sewer Facility Permit (Columbus City Utilities)
34	0620	Stormwater Drainage Permit (City)	30d	06/02/25	07/14/25			Stormwater Drainage Permit (City)
35	0630	DTCE Commercial Building Permit (City)	30d	06/02/25	07/14/25			DTCE Commercial Building Permit (City)
								2 2/40

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Line	Task Number	Activity Name	Duration	Start	Finish	Actual start	Actual finish	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
36	1220	Elevator Permit (State)	30d	06/02/25	07/14/25			Elevator Permit (State)
37	0520	Investigation	24d	06/06/25	07/10/25			Investigation
38	0530	UUDPP	24d	06/06/25	07/10/25			UUDPP
39	0540	Public and Private Locates	3d	06/06/25 *	06/10/25			Public and Private Locates
40	0560	Potholing and Data Point Capture	10d	06/11/25	06/24/25			Potholing and Data Point Capture
41	0550	Drone Flight to Capture Locates	1d	06/25/25	06/25/25			Drone Flight to Capture Locates
42	0570	Modeling	10d	06/26/25	07/10/25			Modeling
43	0161	Procurement	432d	02/03/25	10/09/26			Procurement
44	0170	Bidding	107d	02/03/25	07/02/25			Bidding
45	0700	Create Bid Packages and Div 00 and 01 Documents	54d	02/03/25 *	04/17/25			Create Bid Packages and Div 00 and 01 Documents
46	2380	Scope Writing	15d	05/16/25	06/06/25			Scope Writing
47	0680	Prequalification for Bidders	40d	04/18/25	06/13/25			Prequalification for Bidders
48	0690	ITB Advertisement 1		06/02/25 *	06/02/25			ITB Advertisement 1
49	2490	ITB Advertisement 2		06/09/25	06/09/25			ITB Advertisement 2
50	0670	ITB Advertisement 3		06/16/25	06/16/25			ITB Advertisement 3
51	0650	Set Up Plans and Specs for Bidders		06/02/25	06/02/25			Set Up Plans and Specs for Bidders
52	0640	Update and Upload Bid Packages and Documents to	11d	06/02/25	06/16/25			Update and Upload Bid Packages and Documents to Plans and Specs
53	0641	Deadline for Pepper Prequal Submission		06/17/25	06/17/25			Deadline for Pepper Prequal Submission

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Line	Task Number	Activity Name	Duration	Start	Finish	Actual start	Actual finish	2024 2025 2026 2027 J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A
54	0642	Pre-Bid Meeting		06/11/25 *	06/11/25			Pre-Bid Meeting
55	0643	Issue Addendum 1		06/10/25 *	06/10/25			Issue Addendum 1
56	0644	Issue Addendum 2		06/17/25 *	06/17/25			Issue Addendum 2
57	0710	Bid Day 1		06/24/25 *	06/24/25			Bid Day 1
58	0720	Review Bids and Recommend to BCSB	5d	06/24/25	06/30/25			Review Bids and Recommend to BCSB
59	0721	Bid Day 2		06/26/25 *	06/26/25			Bid Day 2
60	0722	Review Bids and Recommend to BCSB	5d	06/26/25	07/02/25			Review Bids and Recommend to BCSB
61	0180	Scope and Award Packages	54d	08/12/25	10/28/25			Scope and Award Packages
62	0740	BD-1 Long Lead and Eary Start Subcontracts	26d	08/12/25	09/18/25			BD-1 Long Lead and Eary Start Subcontracts
63	1100	BP03 - Precast		08/12/25	08/12/25			BP03 - Precast
64	1120	BP04 - Structural and Miscellaneous Steel		08/18/25	08/18/25			BP04 - Structural and Miscellaneous Steel
65	1090	BP10 - HVAC and Geothermal		08/20/25	08/20/25			BP10 - HVAC and Geothermal
66	1050	BP11 - Electrical/Low Voltage/Security/Fire Alarm/HVAC and Door Rough		08/22/25	08/22/25			BP11 - Electrical/Low Voltage/Security/Fire Alarm/HVAC and Door Rough ins/Pa
67	1080	BP09 - Plumbing		08/26/25	08/26/25			BP09 - Plumbing
68	1110	BP05 - Glass/Glazing and Metal Panels		08/28/25	08/28/25			BP05 - Glass/Glazing and Metal Panels
69	1140	BP08 - Elevator		09/02/25	09/02/25			BP08 - Elevator
70	1230	BP12 - Fire Suppression		09/04/25	09/04/25			BP12 - Fire Suppression
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BP02B - Masonry BP06 - Roofing and Flashing BP16A - Interior and Exterior		09/08/25	l .			
		00/00/20	09/08/25			BP02B - Masonry
PD16A Interior and Exterior		09/10/25	09/10/25			BP06 - Roofing and Flashing
Framing, Sheathing, Gypsum, Blocking, and Finishing		09/12/25	09/12/25			BP16A - Interior and Exterior Framing, Sheathing, Gypsum, Blocking, and Fin
779 BP16B - Ceilings		09/16/25	09/16/25			BP16B - Ceilings
BP07 - Joint Sealants, Firestopping, Dampproofing and Waterproofing, and Air		09/18/25	09/18/25			BP07 - Joint Sealants, Firestopping, Dampproofing and Waterproofing, and A
0 BD-2 Subcontracts	52d	08/14/25	10/28/25			BD-2 Subcontracts
D60 BP01 - Earthwork and Site Utilities		08/14/25	08/14/25			BP01 - Earthwork and Site Utilities
BP02A - Building and Site Concrete		08/20/25	08/20/25			BP02A - Building and Site Concrete
751 BP27 - Foodservice Equipment		09/22/25	09/22/25			BP27 - Foodservice Equipment
250 BP22 - Asphalt		09/24/25	09/24/25			BP22 - Asphalt
BP14 - Playground Surfacing and Equipment		09/26/25	09/26/25			BP14 - Playground Surfacing and Equipment
260 BP26 - Spray Foam		09/30/25	09/30/25			BP26 - Spray Foam
BP25 - Operable Partitions		10/02/25	10/02/25			BP25 - Operable Partitions
BP24 - Tiling		10/06/25	10/06/25			BP24 - Tiling
BP23 - Window Treatments		10/08/25	10/08/25			BP23 - Window Treatments
762 BP21 - Millwork		10/10/25	10/10/25			BP21 - Millwork
BP20 - Painting, Wall Coverings, and Sealed		10/14/25	10/14/25			BP20 - Painting, Wall Coverings, and Sealed Concrete
7' 2' 2' 2' 3' 3' 3' 4' 7' - 3' - 3' - 3' - 3' - 3' - 3' - 3'	Blocking, and Finishing BP16B - Ceilings BP07 - Joint Sealants, Firestopping, Dampproofing and Waterproofing, and Air BD-2 Subcontracts BP01 - Earthwork and Site Utilities BP02A - Building and Site Concrete BP27 - Foodservice Equipment BP22 - Asphalt BP14 - Playground Surfacing and Equipment BP26 - Spray Foam BP26 - Spray Foam BP27 - Operable Partitions BP28 - Window Treatments BP29 - Window Treatments BP20 - Painting, Wall	Blocking, and Finishing BP16B - Ceilings BP07 - Joint Sealants, Firestopping, Dampproofing and Waterproofing, and Air BP2 Subcontracts BP01 - Earthwork and Site Utilities BP02A - Building and Site Concrete BP27 - Foodservice Equipment BP22 - Asphalt BP14 - Playground Surfacing and Equipment BP26 - Spray Foam BP26 - Spray Foam BP27 - Toolde Partitions BP28 - Window Treatments BP29 - Window Treatments BP20 - Painting, Wall	Blocking, and Finishing BP16B - Ceilings 09/16/25	Blocking, and Finishing BP16B - Ceilings 09/16/25 09/16/25 09/16/25 09/16/25 09/16/25 09/16/25 09/18/25	Blocking, and Finishing BP16B - Ceilings O9/16/25 O9/16/25 BP07 - Joint Sealants, Firestopping, Dampproofing and Waterproofing, and Air O9/18/25 O9/18/25 BP02 Subcontracts 52d O8/14/25 O8/14/25 BP01 - Earthwork and Site Utilities O8/14/25 O8/14/25 BP02A - Building and Site Concrete O8/20/25 O8/20/25 BP27 - Foodservice Equipment O9/22/25 O9/22/25 BP28 - Asphalt O9/24/25 O9/24/25 O9 BP29 - Asphalt O9/24/25 O9/26/25 O9 BP26 - Spray Foam O9/30/25 O9/30/25 O9 BP25 - Operable Partitions O9/30/25 O9/30/25 O9 BP24 - Tiling O9/26/25 O9/26/25 O9 BP23 - Window Treatments O9/08/25 O9/08/25 O9 BP21 - Millwork O9/10/25 O9/10/25 O9 BP20 - Painting, Wall O9/10/25 O9/10/25 O9/10/25 O9/10/25 O9/10/25 O9 BP20 - Painting, Wall O9/10/25 O9/10/25 O9/10/25 O9/10/25 O9/10/25	Blocking, and Finishing BP16B - Ceilings 09/16/25 09/16/25

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Line	Ta: Num	isk nber	Activity Name	Duration	Start	Finish	Actual start	Actual finish	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
88	07	765	BP19 - Flooring		10/16/25	10/16/25			BP19 - Flooring
89	07	766	BP17A - General Trades A (DFH)		10/20/25	10/20/25			BP17A - General Trades A (DFH)
90	07	767	BP17B - General Trades B (Accessories, Gym Equipment, Wall Protection)		10/22/25	10/22/25			BP17B - General Trades B (Accessories, Gym Equipment, Wall Protection
91	07	769	BP18 - Gym Flooring		10/24/25	10/24/25			BP18 - Gym Flooring
92	07	789	BP13 - Landscape and Site Furnishings		10/28/25	10/28/25			BP13 - Landscape and Site Furnishings
93	0190	0	Submittal Preparation	74d	08/12/25	11/24/25			Submittal Preparation
94	115	50	BD-01 Submittals	46d	08/12/25	10/15/25			BD-01 Submittals
95	11	160	Precast	20d	08/12/25	09/09/25			Precast
96	13	350	Structural and Miscellaneous Steel	20d	08/18/25	09/15/25			Structural and Miscellaneous Steel
97	14	400	HVAC and Geothermal	20d	08/20/25	09/17/25			HVAC and Geothermal
98	13	380	Electrical/Low Voltage/Security/Fire Alarm/HVAC and Door Rough	20d	08/22/25	09/19/25			Electrical/Low Voltage/Security/Fire Alarm/HVAC and Door Rough ins/Pathway
99	13	390	Plumbing	20d	08/26/25	09/23/25			Plumbing
100	14	410	Glass/Glazing and Metal Panels	20d	08/28/25	09/25/25			Glass/Glazing and Metal Panels
101	14	420	Elevator	20d	09/02/25	09/29/25			Elevator
102	14	430	Fire Suppression	20d	09/04/25	10/01/25			Fire Suppression
103	14	460	Masonry	20d	09/08/25	10/03/25			Masonry
104	14	470	Roofing and Flashing	20d	09/10/25	10/07/25			Roofing and Flashing
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Line	Task Number	Activity Name	Duration	Start	Finish	Actual start	Actual finish	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
105	1490	Interior and Exterior Framing, Sheathing, Gypsum, Blocking, and Finishing	20d	09/12/25	10/09/25			Interior and Exterior Framing, Sheathing, Gypsum, Blocking, and Finishing
106	1640	Ceilings	20d	09/16/25	10/13/25			Ceilings
107	1530	Joint Sealants, Firestopping, Dampproofing and Waterproofing, and Air Barriers	20d	09/18/25	10/15/25			Joint Sealants, Firestopping, Dampproofing and Waterproofing, and Air Barr
108	1450	BD-02 Submittals	72d	08/14/25	11/24/25			BD-02 Submittals
109	1360	Earthwork and Site Utilities	20d	08/14/25	09/11/25			Earthwork and Site Utilities
110	1370	Building and Site Concrete	20d	08/20/25	09/17/25			Building and Site Concrete
111	1451	Foodservice Equipment	20d	09/22/25	10/17/25			Foodservice Equipment
112	1480	Asphalt	20d	09/24/25	10/21/25			Asphalt
113	1500	Playground Surfacing and Equipment	20d	09/26/25	10/23/25			Playground Surfacing and Equipment
114	1510	Spray Foam	20d	09/30/25	10/27/25			Spray Foam
115	1540	Operable Partitions	20d	10/02/25	10/29/25			Operable Partitions
116	1550	Tiling	20d	10/06/25	10/31/25			Tiling
117	2460	Window Treatments	20d	10/08/25	11/04/25			Window Treatments
118	1570	Millwork	20d	10/10/25	11/06/25			Millwork
119	1580	Painting, Wall Coverings, and Sealed Concrete	20d	10/14/25	11/10/25			Painting, Wall Coverings, and Sealed Concrete
120	1590	Flooring	20d	10/16/25	11/12/25			Flooring
121	1600	General Trades A (DFH)	20d	10/20/25	11/14/25			General Trades A (DFH)

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122	16	General Trades B (Accessories, Gym Equipment,	20d	10/22/25	11/18/25			General Trades B (Accessories, Gym Equipment, Wall Protection)
123	16	30 Gym Flooring	20d	10/24/25	11/20/25			Gym Flooring
124	16	50 Landscape and Site Furnishings	20d	10/28/25	11/24/25			Landscape and Site Furnishings
125	0200	Submittal Review and Revisions	64d	09/10/25	12/09/25			Submittal Review and Revisions
126	118	BD-01 Submittal Review and Approval	36d	09/10/25	10/29/25			BD-01 Submittal Review and Approval
127	11	70 Precast	10d	09/10/25	09/23/25			Precast
128	16	70 Structural and Miscellaneous Steel	10d	09/16/25	09/29/25			Structural and Miscellaneous Steel
129	17	20 HVAC and Geothermal	10d	09/18/25	10/01/25			HVAC and Geothermal
130	17	Electrical/Low Voltage/Security/Fire Alarm/HVAC and Door Rough	10d	09/22/25	10/03/25			Electrical/Low Voltage/Security/Fire Alarm/HVAC and Door Rough ins/Pathwa
131	17	10 Plumbing	10d	09/24/25	10/07/25			Plumbing
132	17	Glass/Glazing and Metal Panels	10d	09/26/25	10/09/25			Glass/Glazing and Metal Panels
133	17	40 Elevator	10d	09/30/25	10/13/25			Elevator
134	17	50 Fire Suppression	10d	10/02/25	10/15/25			Fire Suppression
135	17	70 Masonry	10d	10/06/25	10/17/25			Masonry
136	17	80 Roofing and Flashing	10d	10/08/25	10/21/25			Roofing and Flashing
137	18	Interior and Exterior Framing, Sheathing, Gypsum, Blocking, and Finishing	10d	10/10/25	10/23/25			Interior and Exterior Framing, Sheathing, Gypsum, Blocking, and Finishing
138	12	71 Ceilings	10d	10/14/25	10/27/25			Ceilings

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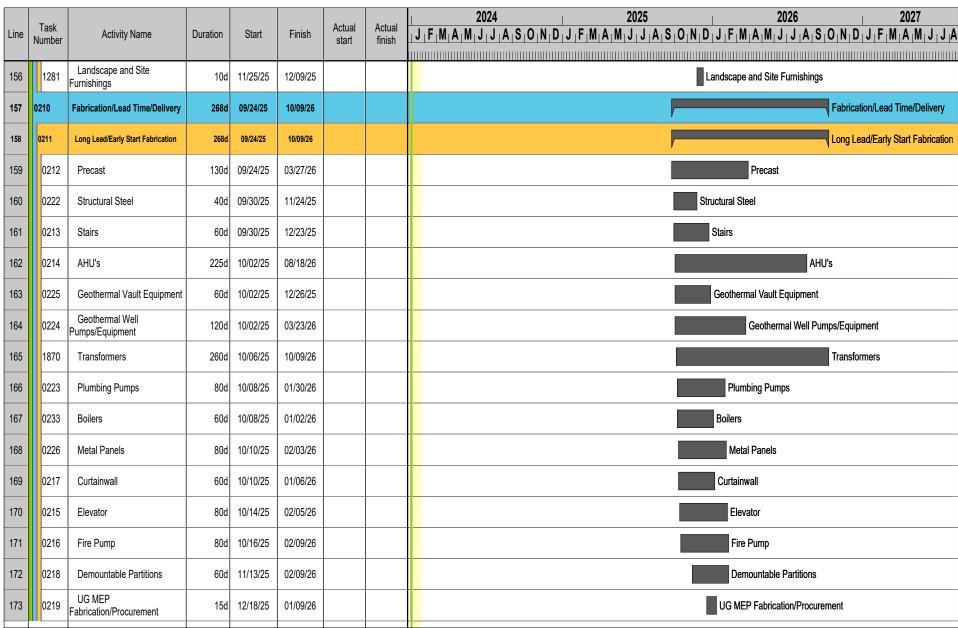
Line	Tasl Numb		Duration	Start	Finish	Actual start	Actual finish	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
139	184	Joint Sealants, Firestopping, Dampproofing and Waterproofing, and Air Barriers	10d	10/16/25	10/29/25			Joint Sealants, Firestopping, Dampproofing and Waterproofing, and Air Ba
140	1181	BD-02 Submittal Review and Approval	62d	09/12/25	12/09/25			BD-02 Submittal Review and Approval
141	168	0 Eathwork and Site Utilities	10d	09/12/25	09/25/25			Eathwork and Site Utilities
142	169	0 Building and Site Concrete	10d	09/18/25	10/01/25			Building and Site Concrete
143	118	2 Foodservice Equipment	10d	10/20/25	10/31/25			Foodservice Equipment
144	179	0 Asphalt	10d	10/22/25	11/04/25			Asphalt
145	181	Playground Surfacing and Equipment	10d	10/24/25	11/06/25			Playground Surfacing and Equipment
146	182	0 Spray Foam	10d	10/28/25	11/10/25			Spray Foam
147	185	0 Operable Partitions	10d	10/30/25	11/12/25			Operable Partitions
148	186	0 Tiling	10d	11/03/25	11/14/25			Tiling
149	247	0 Window Treatments	10d	11/05/25	11/18/25			Window Treatments
150	120	1 Millwork	10d	11/07/25	11/20/25			Millwork
151	121	Painting, Wall Coverings, and Sealed Concrete	10d	11/11/25	11/24/25			Painting, Wall Coverings, and Sealed Concrete
152	122	1 Flooring	10d	11/13/25	11/26/25			Flooring
153	123	1 General Trades A (DFH)	10d	11/17/25	12/01/25			General Trades A (DFH)
154	124	General Trades B (Accessories, Gym Equipment,	10d	11/19/25	12/03/25			General Trades B (Accessories, Gym Equipment, Wall Protection)
155	126	1 Gym Flooring	10d	11/21/25	12/05/25			Gym Flooring
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174	0229	L1 MEP OH Fabrication	40d	02/02/26	03/27/26			L1 MEP OH Fabrication
175	0239	L2 MEP OH Fabrication	40d	03/16/26	05/08/26			L2 MEP OH Fabrication
176	0220	ВІМ	110d	10/08/25	03/16/26			ВІМ
177	1880	Underground	50d	10/08/25	12/18/25			Underground
178	1881	Modeling	15d	10/08/25	10/28/25			Modeling
179	1882	Coordination	15d	10/29/25	11/18/25			Coordination
180	1883	Shop Drawing Creation	5d	11/19/25	11/25/25			Shop Drawing Creation
181	1884	Shop Drawing Review	10d	11/26/25	12/10/25			Shop Drawing Review
182	1885	Shop Drawing Comment Updates	5d	12/11/25	12/17/25			Shop Drawing Comment Updates
183	1886	Ready for Fab and Install		12/18/25	12/18/25			Ready for Fab and Install
184	1890	L1	50 d	11/19/25	02/02/26			L1
185	1891	Modeling	15d	11/19/25	12/10/25			Modeling
186	1892	Coordination	15d	12/11/25	01/02/26			Coordination
187	1893	Shop Drawing Creation	5d	01/05/26	01/09/26			Shop Drawing Creation
188	1894	Shop Drawing Review	10d	01/12/26	01/23/26			Shop Drawing Review
189	1895	Shop Drawing Comment Updates	5d	01/26/26	01/30/26			Shop Drawing Comment Updates
190	1896	Ready for Fab and Install		02/02/26	02/02/26			Ready for Fab and Install
191	1900	L2	50d	01/05/26	03/16/26			L2

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192	1910	Modeling	15d	01/05/26	01/23/26			Modeling
193	1920	Coordination	15d	01/26/26	02/13/26			Coordination
194	1930	Shop Drawing Creation	5d	02/16/26	02/20/26			Shop Drawing Creation
195	1940	Shop Drawing Review	10d	02/23/26	03/06/26			Shop Drawing Review
196	1950	Shop Drawing Comment Updates	5d	03/09/26	03/13/26			Shop Drawing Comment Updates
197	1960	Ready for Fab and Install		03/16/26	03/16/26			Ready for Fab and Install
198	0221	Construction	432d	09/26/25	06/07/27			Constru
199	0230	Mobilization	5d	11/17/25	11/21/25			Mobilization
200	0231	Pepper Jobsite Trailer Setup	5d	11/17/25	11/21/25			Pepper Jobsite Trailer Setup
201	0260	Sitework	301d	09/26/25	11/30/26			Sitework
202	0820	Rough Grade and Set Building Pad	35d	09/26/25	11/13/25			Rough Grade and Set Building Pad
203	0810	Temp Stone for Pepper Trailer	1d	11/14/25	11/14/25			Temp Stone for Pepper Trailer
204	2410	Geothermal Wells	50d	11/14/25	01/27/26			Geothermal Wells
205	0790	Temp Power	5d	11/17/25	11/21/25			Temp Power
206	0811	Remaining Site Grading (Includes Temp Grading for Building Perimeter Crane	30d	11/17/25	12/30/25			Remaining Site Grading (Includes Temp Grading for Building Perim
207	0262	Sanitary	15d	12/31/25	01/21/26			Sanitary
208	0263	Site Domestic Water	15d	01/22/26	02/11/26			Site Domestic Water

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	Task		.			Actual	Actual	2024 2025 2026 2027
Line	Number	Activity Name	Duration	Start	Finish	start	finish	${ J_1 F_1 M_1 A_1 M_1 J_1 J_1 A_1 S_1 O_1 N_1 D_1 J_1 S_1 O_1 N_1 D$
		Geothermal Headers (latteral						
209	0279	piping), Vaults and Piping to	40d	01/28/26	03/24/26			Geothermal Headers (latteral piping), Vaults and Piping to
210	0264	Site Fire Water	15d	02/12/26	03/04/26			Site Fire Water
211	0265	Storm	25d	03/05/26	04/08/26			Storm
212	0269	Electrical	10d	04/09/26	04/22/26			Electrical
213	0267	Telephone (Called on Legend, not shown?)	5d	04/23/26	04/29/26			Telephone (Called on Legend, not shown?)
214	0268	Telecom (FO)	5d	04/30/26	05/06/26			Telecom (FO)
215	1040	Stone Remainder of Locations	10d	05/07/26	05/20/26			Stone Remainder of Locations
216	0266	Gas Must Be Completed By		05/21/26	05/21/26			Gas Must Be Completed By
217	0800	Heady Duty Binder	10d	05/21/26	06/04/26			Heady Duty Binder
218	1200	Hardscapes	60d	06/05/26	08/27/26			Hardscapes
219	2400	Regrading at Building Perimeter (Bring to Rough	10d	09/21/26	10/02/26			Regrading at Building Perimeter (Br
220	2140	Softscapes	40d	10/05/26	11/30/26			Softscapes
221	0270	Core and Shell	241d	11/14/25	10/23/26			Core and Shell
222	0271	Area 1	241d	11/14/25	10/23/26			Area 1
223	0890	Footings and Foundations	20d	11/14/25	12/12/25			Footings and Foundations
224	0891	Elevator Pit	10d	12/01/25	12/12/25			Elevator Pit
225	0930	Steel Erection and Decking	30d	12/22/25	02/03/26			Steel Erection and Decking
226	0920	Underslab MEP's	20d	02/04/26	03/03/26			Underslab MEP's
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Line	Task Numbe	Activity Name	Duration	Start	Finish	Actual start	11111011	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
227	0832	L2 SOD MEP Prep	5d	03/16/26	03/20/26			L2 SOD MEP Prep
228	0980	L2 SOD Pour Prep	5d	04/15/26	04/21/26			L2 SOD Pour Prep
229	0990	L2 SOD Pour	1d	04/22/26	04/22/26			L2 SOD Pour
230	1980	Precast Embed Install	5d	04/23/26	04/29/26			Precast Embed Install
231	2010	Precast Install	10d	04/30/26	05/13/26			Precast Install
232	0272	SOG Prep	15d	05/14/26	06/04/26			SOG Prep
233	0860	SOG Pour	1d	06/05/26	06/05/26			SOG Pour
234	0940	Stair (1-2 Line)	15d	04/15/26	05/05/26			Stair (1-2 Line)
235	0950	Perimeter Roof Framing	15d	05/14/26	06/04/26			Perimeter Roof Framing
236	2050	Curtainwall and Storefront	20d	05/14/26	06/11/26			Curtainwall and Storefront
237	2100	Roofing	20d	06/05/26	07/02/26			Roofing
238	2110	Metal Panels	15d	07/03/26	07/23/26			Metal Panels
239	0943	Elevator	211d	12/30/25	10/23/26			Elevator
240	089	Elevator Shaft Masonry Walls	20d	12/30/25	01/27/26			Elevator Shaft Masonry Walls
241	095	Elevator	40d	08/28/26	10/23/26			Elevator
242	0921	Area 2	176d	12/15/25	08/20/26			Area 2
243	0900	Footings and Foundations	15d	12/15/25	01/06/26			Footings and Foundations
244	0931	Steel Erection and Decking	30d	01/28/26	03/10/26			Steel Erection and Decking

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Line	Task Number	Activity Name	Duration	Start	Finish	Actual start	 $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
245	0960	Underslab MEP's	15d	03/11/26	03/31/26		Underslab MEP's
246	0991	L2 SOD MEP Prep	10d	03/11/26	03/24/26		L2 SOD MEP Prep
247	1000	L2 SOD Pour Prep	10d	04/23/26	05/06/26		L2 SOD Pour Prep
248	1010	L2 SOD Pour	1d	05/07/26	05/07/26		L2 SOD Pour
249	1990	Precast Embed Install	5d	05/08/26	05/14/26		Precast Embed Install
250	2020	Precast Install	15d	05/15/26	06/05/26		Precast Install
251	0850	SOG Prep	10d	06/08/26	06/19/26		SOG Prep
252	0870	SOG Pour	1d	06/22/26	06/22/26		SOG Pour
253	0941	Stair (2-B Line)	15d	05/06/26	05/27/26		Stair (2-B Line)
254	0951	Perimeter Roof Framing	15d	06/08/26	06/26/26		Perimeter Roof Framing
255	2060	Curtainwall and Storefront	20d	06/12/26	07/09/26		Curtainwall and Storefront
256	2120	Roofing	20d	07/03/26	07/30/26		Roofing
257	2130	Metal Panels	15d	07/31/26	08/20/26		Metal Panels
258	0961	Area 3	181d	01/07/26	09/18/26		Area 3
259	0910	Footings and Foundations	15d	01/07/26	01/27/26		Footings and Foundations
260	0932	Steel Erection and Decking	30d	03/04/26	04/14/26		Steel Erection and Decking
261	0970	Underslab MEP's	15d	04/15/26	05/05/26		Underslab MEP's
262	1011	L2 SOD MEP Prep	10d	04/15/26	04/28/26		L2 SOD MEP Prep

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Line	Task Number	Activity Name	Duration	Start	Finish	Actual start	Actual finish	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
263	1020	L2 SOD Pour Prep	10d	05/08/26	05/21/26			L2 SOD Pour Prep
264	1030	L2 SOD Pour	1d	05/22/26	05/22/26			L2 SOD Pour
265	2000	Precast Embed Install	5d	05/26/26	06/01/26			Precast Embed Install
266	2030	Precast Install	15d	06/08/26	06/26/26			Precast Install
267	0840	SOG Prep	10d	06/29/26	07/10/26			SOG Prep
268	0830	SOG Pour	1d	07/13/26	07/13/26			SOG Pour
269	0942	Stairs (3-G Line)	15d	05/28/26	06/17/26			Stairs (3-G Line)
270	1970	Stair (5-F Line)	15d	06/18/26	07/08/26			Stair (5-F Line)
271	1210	Roof Access Stair (Is this in Area 1?)	10d	07/09/26	07/22/26			Roof Access Stair (Is this in Area 1?)
272	2040	Perimeter Roof Framing	15d	06/29/26	07/17/26			Perimeter Roof Framing
273	2070	Curtainwall and Storefront	20d	07/10/26	08/06/26			Curtainwall and Storefront
274	2080	Roofing	20d	07/31/26	08/27/26			Roofing
275	2090	Metal Panels	15d	08/28/26	09/18/26			Metal Panels
276	0290	Interior	257d	05/06/26	05/06/27			Interior
277	0291	Stair Shaft Masonry	45d	05/06/26	07/08/26			Stair Shaft Masonry
278	2210	Space Conditioned		10/27/26	10/27/26			Space Conditioned
279	2200	Gym Flooring Aclimation	5d	10/27/26	11/02/26			Gym Flooring Aclimation
280	2220	Gym Lighting	5d	10/27/26	11/02/26			Gym Lighting

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Line	Task Number	Activity Name	Duration	Start	Finish	Actual start	Actual finish	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
281	2230	Gym Paint and Wallcoverings	5d	11/03/26	11/09/26			Gym Paint and Wallcoverings
282	2190	Gym Flooring Install	20d	11/10/26	12/08/26			Gym Flooring Install
283	2180	Cafeteria Equipment Install	20d	12/23/26	01/21/27			Cafeteria Equipment In
284	0292	L1	209d	07/14/26	05/06/27			L1
285	0303	Set Door Frames	15d	07/14/26	08/03/26			Set Door Frames
286	0295	Overhead MEP's	40d	07/27/26	09/21/26			Overhead MEP's
287	0293	Framing Complete (Walls, Bulkheads, Topout, etc.)	50d	08/10/26	10/19/26			Framing Complete (Walls, Bulkhe
288	0294	In Wall MEP's	25d	09/22/26	10/26/26			In Wall MEP's
289	2170	Perimeter Wall Insulation	15d	10/06/26	10/26/26			Perimeter Wall Insulation
290	0296	Drywall (Hang and Finish)	30d	10/27/26	12/08/26			Drywall (Hang and Finish)
291	0306	Permanent MEP's Live		10/27/26	10/27/26			Permanent MEP's Live
292	0297	Paint and Wallcoverings	20d	11/24/26	12/22/26			Paint and Wallcoverings
293	2150	Interior Glazing	15d	12/09/26	12/30/26			Interior Glazing
294	0298	Ceiling	20d	12/09/26	01/07/27			Ceiling
295	0299	Lighting	20d	12/23/26	01/21/27			Lighting
296	0302	Finishes	20d	01/22/27	02/18/27			Finishes
297	0300	Flooring	30d	01/22/27	03/04/27			Flooring
298	2160	Accessories (Toilet Partitions, Lockers, etc)	40d	01/22/27	03/18/27			Accessories (Toi
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Line Task Number	Activity Name	Duration	Start	Finish	Actual start	11111311	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
299 0301	Millwork	25	d 03/05/27	04/08/27			Millwork
300 0304	Doors and Hardware	30	d 03/05/27	04/15/27			Doors and Ha
301 0305	Operable Partitions	25	d 03/05/27	04/08/27			Operable Parti
302 0315	Pepper Punch	15	d 04/16/27	05/06/27			Pepper Pur
303 0307	L2	135	d 06/29/26	01/07/27			L2
304 0380	Set Door Frames	10	d 06/29/26	07/10/26			Set Door Frames
305 0310 B	Framing Complete (Walls, Bulkheads, Topout, etc)	30	d 06/29/26	08/07/26			Framing Complete (Walls, Bulkheads, Top
306 0312	Overhead MEP's	20	d 06/29/26	07/24/26			Overhead MEP's
307 0311	In Wall MEP's	20	d 07/27/26	08/21/26			In Wall MEP's
308 0308	Perimeter Wall Insulation	15	d 08/03/26	08/21/26			Perimeter Wall Insulation
309 0320	Drywall (Hang and Finish)	25	d 08/24/26	09/28/26			Drywall (Hang and Finish)
310 0382	Permanent MEP's Live		10/12/26	10/12/26			Permanent MEP's Live
311 0321	Paint and Wallcoverings	20	d 09/15/26	10/12/26			Paint and Wallcoverings
312 0371	Interior Glazing	25	d 09/29/26	11/02/26			Interior Glazing
313 0330	Ceiling	15	d 09/29/26	10/19/26			Ceiling
314 0340	Lighting	15	d 10/13/26	11/02/26			Lighting
315 0370	Finishes	10	d 11/03/26	11/16/26			Finishes
316 0350	Flooring	15	d 11/03/26	11/23/26			Flooring
315 0370	Finishes	10	d 11/03/26	11/16/26			Finishes

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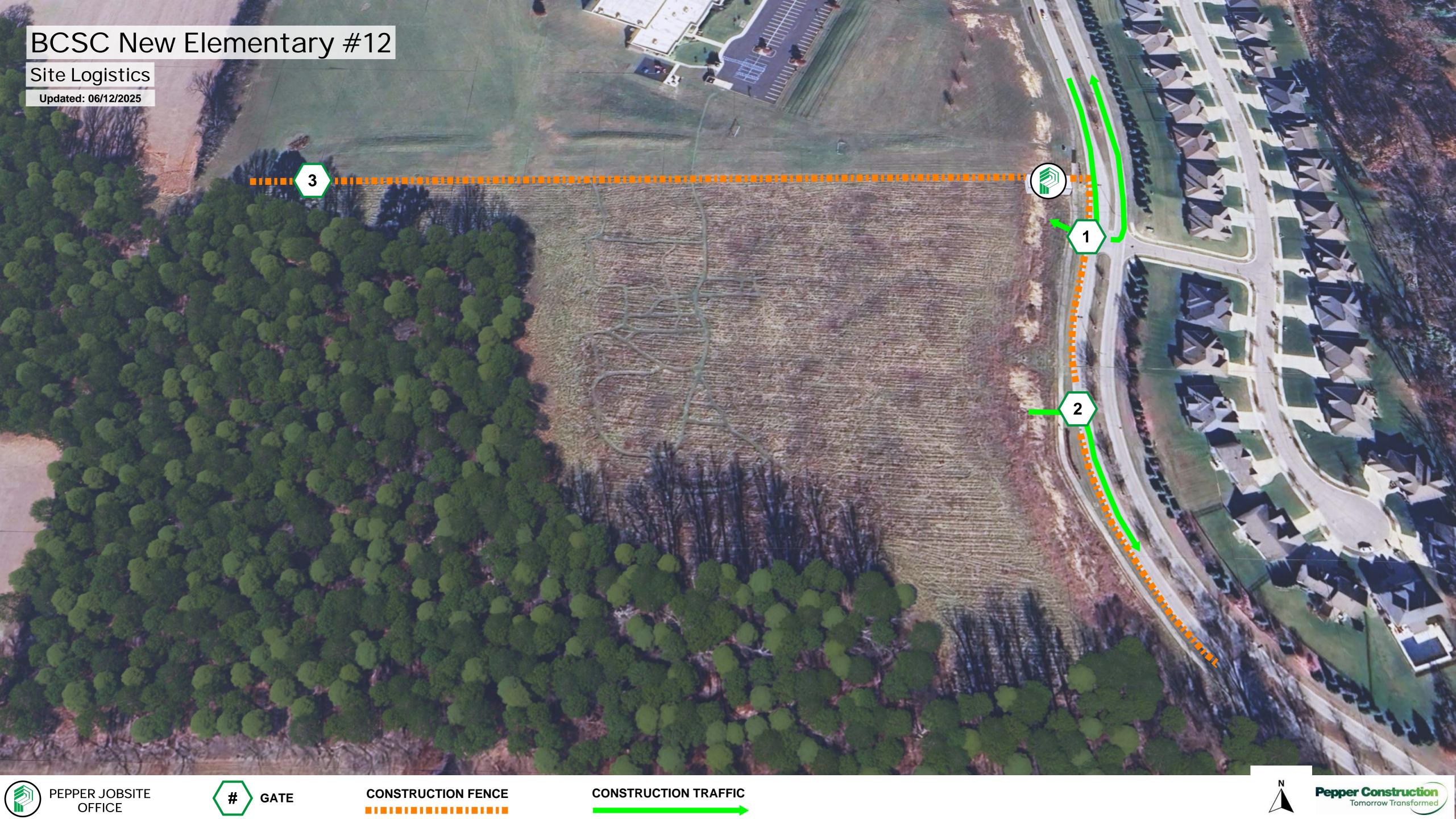
Line	Task Number	Activity Name	Duration	Start	Finish	Actual start	Actual finish	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
317	0361	Accessories (Toilet partitions, lockers, etc)	15d	11/03/26	11/23/26			Accessories (Toilet partitions,
318	0360	Millwork	15d	11/24/26	12/15/26			Millwork
319	0381	Doors and Hardware	20d	11/24/26	12/22/26			Doors and Hardware
320	0391	Operable Partitions	20d	11/24/26	12/22/26			Operable Partitions
321	0392	Pepper Punch	10d	12/23/26	01/07/27			Pepper Punch
322	0410	Close Out	156d	10/26/26	06/07/27			Close C
323	0470	Elevator Inspection	2d	10/26/26	10/27/26			Elevator Inspection
324	0420	Commissioning	20d	01/22/27	02/18/27			Commissioning
325	0430	Owner Training	5d	02/19/27	02/25/27			Owner Training
326	0440	MEP Final Inspections	5d	02/19/27	02/25/27			MEP Final Inspection
327	0431	Systems Balance (TAB)	5d	04/16/27	04/22/27			Systems Bal
328	0450	Building Final Inspection	1d	04/16/27	04/16/27			Building Final
329	0460	Fire Department Final Inspection	2d	04/16/27	04/19/27			Fire Departm
330	0471	Substantial Completion		04/16/27	04/16/27			Substantial
331	0480	A/E Final Punch list	10d	05/07/27	05/20/27			A/E Final
332	0490	FFE	10d	05/21/27	06/04/27			FFE
333	0500	Final Completion		06/07/27	06/07/27			Final
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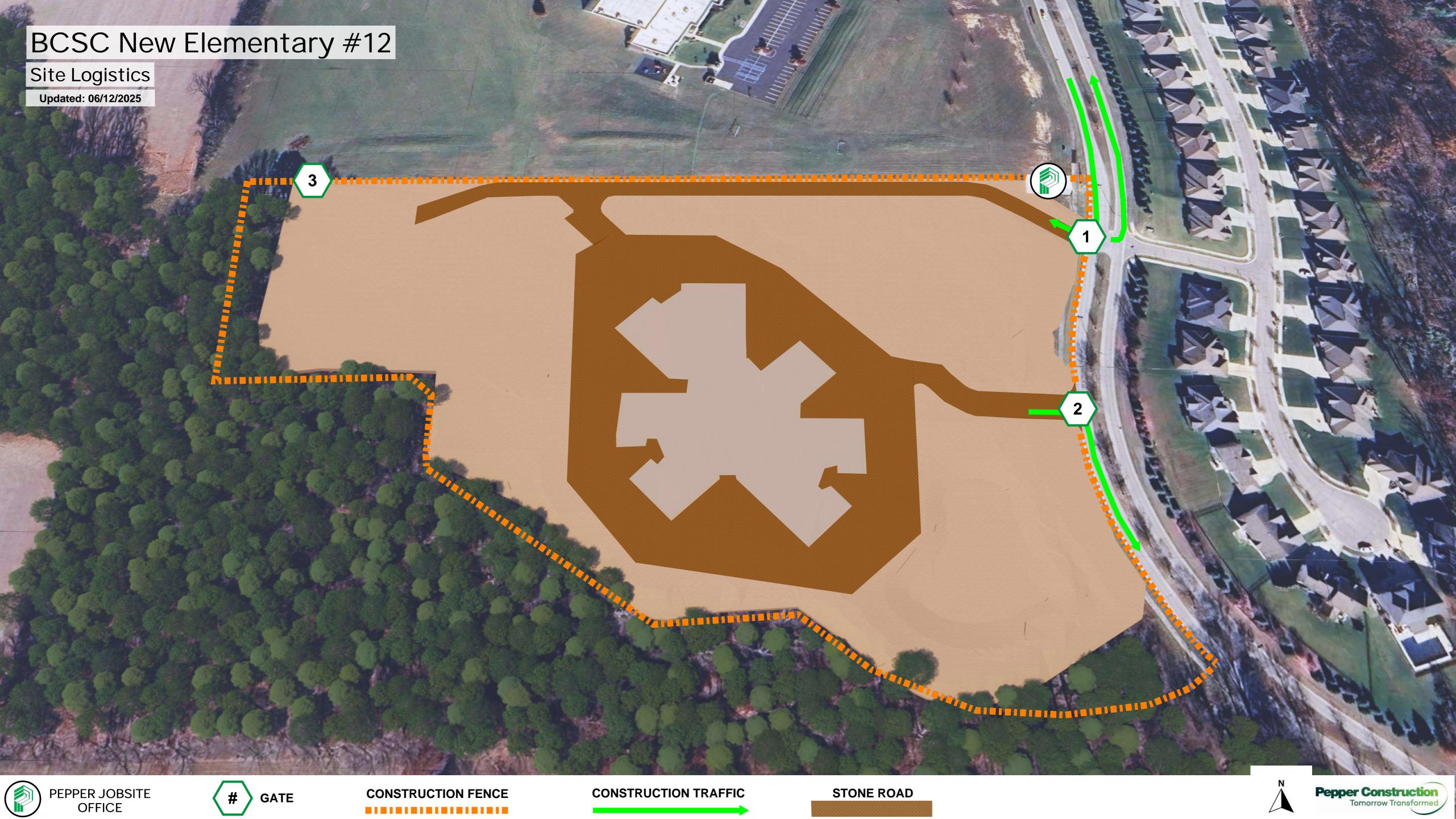
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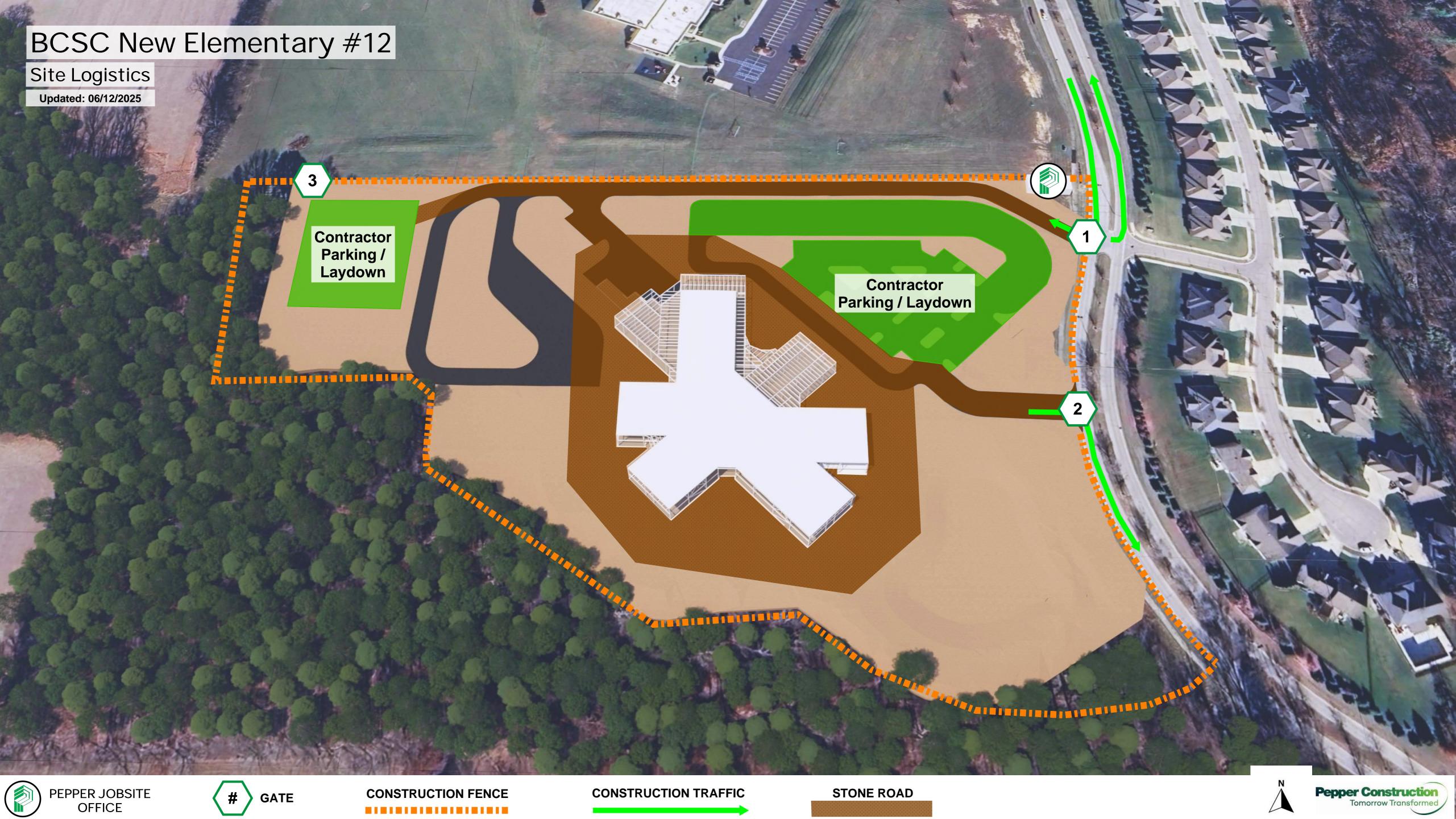
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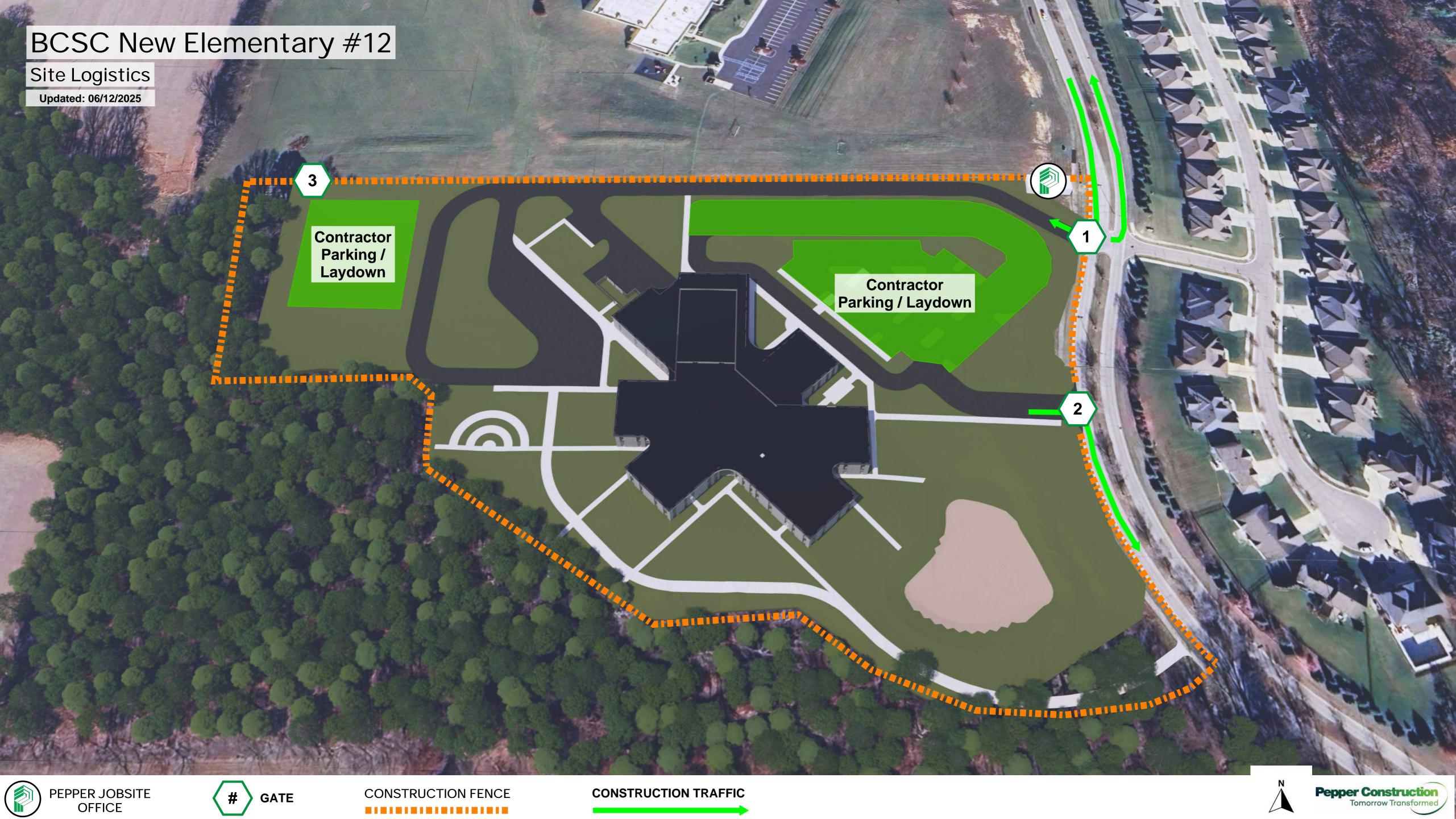
LOGISTICS/PHASING PLAN











SAMPLE SUBCONTRACT AGREEMENT





To:

Attn:

By:

Title:

Dated:

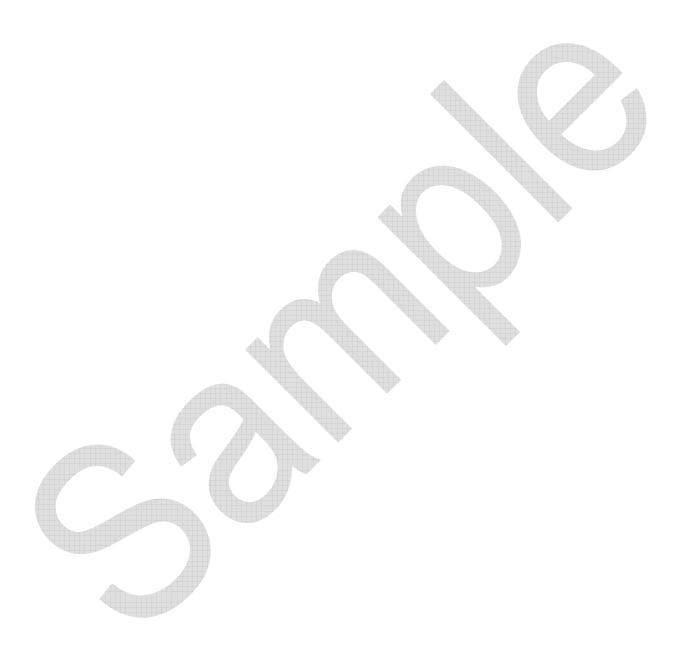
SUBCONTRACT AGREEMENT Date: No.: 1850 West 15th Street, Indianapolis, IN 46202 317 681-1000 Fax: 317 684-9694 Perform Work at: ("Project") or Ship to: Attn: Phone: Fax: Fax: Phone: Email: Contract Dollar Value: \$ MINIMUM INSURANCE: See Article 10 and Job No. -Vendor#-Subject to retainage of: SubJob -Phase -Furnish all labor, material, equipment, supervision and insurance as required to provide and fully complete all work ("Work") for the above-referenced Project in strict accordance with the Contract Documents as further described herein. This Work is to be performed for the _____ pric and ____/100 Dollars (\$_____) ("Subcontract Price"). _ price, including all applicable taxes, of This Subcontract Agreement must be signed and received in addition to submitting an acceptable Certificate of Insurance prior to working on site. This information must be submitted before any payouts or accounting functions may proceed. The Owner for this Project is _____ ("Owner") and the Architect for this Project is _____ ("Architect"). A COPY OF SUBCONTRACTOR'S UP-TO-DATE INSURANCE CERTIFICATE MUST BE ON FILE WITH PEPPER'S SUPERINTENDENT AT THE JOBSITE PRIOR TO BEGINNING WORK ON THIS PROJECT. PLEASE SEE ARTICLE 10 AND EXHIBIT C FOR FURTHER INSTRUCTIONS. SUBCONTRACTOR SHALL SUBMIT INVOICES BY THE 15TH OF EACH MONTH. SEE ARTICLE 47, BILLING PROCEDURES. Contract Documents applicable to this Subcontract Agreement (Articles 1 through 47 inclusive) are as follows: Exhibit A - Contract Document Listing Exhibit B - Scope of Work Exhibit C - Insurance Requirements (Non-CCIP or CCIP, as applicable) Exhibit D – 04/01//22 Trade Partner Safety Handbook Exhibit E - Project Schedule as prepared by Pepper Construction Company of Indiana, LLC Any additional Exhibits are identified on the following page 2. Subcontractor agrees that the subject matter of this Subcontract is confidential in nature and that Subcontractor will not provide any thirdparty with any information contained herein without the prior written consent of PEPPER CONSTRUCTION COMPANY OF INDIANA, LLC. **TERMS AND CONDITIONS ACCEPTED:** PEPPER CONSTRUCTION COMPANY OF INDIANA, LLC Printed: Printed:

Subcontract Agreement with Page 1 of 15 Rev 060124

Title:

Dated:

Additional Exhibits:



Subcontract Agreement with Page 2 of 15 Rev 060124

SUBCONTRACTOR OBLIGATIONS

By executing and returning the attached acceptance copy of this Subcontract, or if the acceptance copy is not executed and returned, by partial or complete performance under this Subcontract Agreement ("Subcontract" or "Agreement"), you, as Subcontractor, agree with Pepper Construction Company of Indiana, LLC ("PEPPER"), as follows:

1. Contract Documents

This Subcontract Agreement as defined on page 1 includes, but is not limited to, the Agreement between PEPPER and Owner ("Owner Agreement"), all addenda, modifications, revisions, Drawings, Specifications, details, all general, technical and supplementary conditions, and any Project Labor Agreement for the Project. A listing of the Contract Documents is found at **Exhibit A**, and Subcontractor's Scope of Work is found at **Exhibit B**. For purposes of this Subcontract Agreement, the Subcontractor is obligated to PEPPER as PEPPER is obligated to the Owner under the Contract Documents. The Owner is a third-party beneficiary to this Subcontract. Subcontractor also agrees to similarly bind its subsubcontractors. Subcontractor shall have the same rights against PEPPER that PEPPER has against the Owner. In case of conflict between the Contract Documents and this Subcontract Agreement, the more stringent term or the highest quality materials shall be required.

The exchange of copies of this Subcontract Agreement and of signature pages by facsimile ("fax") transmission (whether directly from one fax device to another by means of an internet connection or whether conveyed electronically via the internet), by email in pdf format, or by any other electronic means intended to preserve the original graphic and pictorial appearance of a document, or by combination of such means, shall constitute effective execution and delivery of this Subcontract Agreement as to the Parties and may be used in lieu of the original Subcontract Agreement for all purposes. To that end, signatures of the Parties transmitted by fax, electronic format, or via DocuSign shall be deemed to be their original signatures for all purposes.

2. <u>Incomplete Details</u>

The work to be performed by the Subcontractor ("Work") includes that work specifically set forth in this Subcontract Agreement, as well as any and all other work reasonably inferable from the Contract Documents to include work which is necessary to have a properly working and totally acceptable Scope of Work for this Subcontract Agreement. The Subcontractor shall take all field measurements necessary to perform its work. PEPPER makes no warranty, either expressed or implied, as to the sufficiency of the Construction Documents furnished by the Owner. The Subcontractor shall furnish all required samples and shop drawings in order to ensure that the Subcontractor's Scope of Work is complete in every detail and free from any gaps, duplications, or omissions.

3. Examination of Site

Subcontractor warrants that it has visited and examined the Project site and further that it shall make no claim for extra work on account of existing exposed site conditions.

4. Permits and Licenses

In performing the Work, Subcontractor shall comply with all laws and ordinances, give authorities timely and proper notices, and secure and pay for all necessary permits, licenses, inspections, tests and bonds required for the Work performed under the Subcontract. The general building permit will be obtained and paid for by others.

5. Payment and Performance Bonds

Subcontractor warrants to PEPPER that it currently has, and will maintain for the life of the Project, sufficient bonding capacity from a surety company acceptable to PEPPER. If included as part of the Bid Instructions/Construction Documents, or upon reasonable written notice prior to the start of the Work, or thereafter if required by amendment to this Subcontract Agreement, Subcontractor shall furnish to PEPPER a One Hundred Percent (100%) payment and performance bond with an A.M. Best rating of A/X or better. The Subcontractor's bonds shall be maintained throughout the duration of the Project, including the warranty period set forth in the Contract Documents. The premium costs for such bonds are included in the Subcontract Price or within a Change Order.

6. Taxes

Subcontractor shall pay all sales taxes, use taxes, occupation taxes, excise taxes, FICA taxes, unemployment taxes, and any other tax or levy applicable to this Subcontract Agreement.

7. Liens/Bonds

In the event that PEPPER receives a notice or claim of lien from a sub-subcontractor or material supplier of Subcontractor, PEPPER shall have the right to require the Subcontractor to bond over the lien in an amount of One Hundred Fifty Percent (150%) of the claim. Should PEPPER determine, in its sole discretion, that Subcontractor is not justified in refusing to pay the claim, after three (3) business days' written notice to Subcontractor, PEPPER shall have the right to pay a sum sufficient to discharge such lien or obligation and charge the same against any amount owed Subcontractor. PEPPER shall also have the right to require the Subcontractor to furnish and pay for a lien release bond in an amount not less than One Hundred Fifty Percent (150%) of (a) the sum of any final lien waivers the Subcontractor fails to provide or (b) the amount of any lien claims. Provided payment is made for Work properly performed, Subcontractor agrees to defend, hold harmless and indemnify PEPPER and Owner against any loss, damages, judgments and expenses (including reasonable attorneys' fees) which PEPPER or Owner may sustain in connection with any lien or claim.

8. Payments

Subcontract Agreement with Page 3 of 15 Rev 060124

PEPPER does not financially guarantee the Owner's ability to fund the Project cost. In the event of Owner's insolvency or willful refusal to pay PEPPER, and notwithstanding anything to the contrary in the Owner Agreement, it is an express condition of this Subcontract Agreement that PEPPER's obligation to pay Subcontractor is contingent upon receipt of payment from Owner for Subcontractor's Work. Owner's withholding of a PEPPER payment, due to an alleged failure by PEPPER to perform any of its obligations unrelated to this Subcontract Agreement, will not excuse payment to Subcontractor according to the terms of this Subcontract Agreement. To the extent permitted by law, retainage shall be held by PEPPER as provided in the Owner Agreement, or as deemed necessary by PEPPER until any failure of performance is corrected and Subcontractor is in compliance with this Subcontract Agreement.

In the event of Owner's nonpayment, nothing contained in this Agreement shall be construed as a waiver or impairment of Subcontractor's mechanic lien rights.

Unless expressly made a part of the Scope of Work for this Agreement, the cost of construction work completed does not include materials or equipment stored off the site.

All billings to the General Contractor for materials delivered or Work completed will be done per the PEPPER billing procedures ("Accounting Package"), which are further described within Article 47. All amounts to be billed must be approved before billings are submitted. Payments received from Owner shall be held for Subcontractor's account and promptly disbursed according to the terms of this Subcontract Agreement.

In accordance with the terms of the Agreement between the Owner and PEPPER, PEPPER or the Owner shall have the right to audit Subcontractor's performance and billing of the Work.

9. Indemnification

To the fullest extent permitted by law, the Subcontractor shall defend, indemnify and hold harmless PEPPER, the Owner, Architect and others required in the Contract Documents and their agents, invitees and other employees (collectively, the "Indemnitees"), from and against first- and third-party claims, damages (direct and consequential), losses and expenses, including but not limited to insurance deductibles and attorneys' fees ("Claims"), arising out of or resulting from 1) Subcontractor's performance of or failure to perform its obligations under this Subcontract Agreement; 2) defective workmanship or materials; 3) bodily injury, sickness, disease or death, or to injury to or destruction of tangible property, including loss of use resulting therefrom, caused in whole or in part by negligent acts or omissions of the Subcontractor, or anyone directly or indirectly employed by them or anyone for whose acts they may be liable, provided, however, that Subcontractor shall not be required to defend, indemnify, and hold harmless the Indemnitees if the injury, sickness, disease or death, or injury to or destruction of tangible property is caused by the sole negligence or willful misconduct of the Indemnitees; 4) fines, penalties and other charges levied against PEPPER by any governmental entity or authority having jurisdiction as the result of Subcontractor's acts or omissions; 5) mechanics lien and bond claims asserted by Subcontractor or its suppliers or lower tier subcontractors or suppliers; 6) patent, trademark, copyright or trade dress infringement Claims arising out of Subcontractor's Work; and 7) claims for wages or benefits by employees of Subcontractor or Sub-subcontractors. This indemnification shall not be limited in any way by any limitations on the amount or type of damages, compensation or benefits payable by or for the Subcontractor under Workers' Compensation Acts, disability benefit acts or other employee benefit acts and shall survive Completion and final payment of this Subcontract.

Subcontractor further agrees to obtain, maintain, and pay for such insurance as will insure the provisions of this Article 9.

10. Insurance

Subcontractor shall maintain, at its own expense, during the progress of the Work and throughout the warranty period, all insurance coverages as required in the attached Insurance **Exhibit C - Non-CCIP** [or in the event of a CCIP, **Exhibit C - CCIP**]. PEPPER reserves the right to implement a Contractor Controlled Insurance Program ("CCIP") in PEPPER's sole discretion, for the provision of Commercial General Liability and Umbrella (follow form) Liability coverages for the Project. In the event a CCIP is implemented, Subcontractor shall credit against the Subcontract Price the actual cost of insurance not required from the Subcontractor for the Project and shall comply with and maintain all other insurance as set forth in **Exhibit C - CCIP**.

11. Safety Regulations

A PEPPER representative is required to be on site any time Work is being performed by Subcontractor. The Subcontractor, its agents, employees, materialmen and sub-subcontractors will comply with all laws and ordinances and will perform all work on the Project in a safe and responsible manner. In particular, Subcontractor shall, at its own expense, conform to the safety policies and regulations established by PEPPER as listed within this Subcontract Agreement and the "Trade Partner Safety Handbook", **Exhibit D**, and shall comply with all specific safety requirements promulgated by any government authority, including, without limitation, the requirements of the Occupational Safety and Health Act of 1970 and the Construction Safety Act of 1969 and all standards and regulations which have been or shall be promulgated by the parties or agencies which administer the Acts.

Subcontractor shall comply with said requirements, standards and regulations and require and be directly responsible for compliance therewith on the part of its agents, employees, materialmen and subcontractors, and shall directly receive, respond to, defend and be responsible for all citations, assessments, fines or penalties which may be incurred by reason of its failure on the part of its agents, employees, materialmen or subcontractors to so comply.

- A. The Subcontractor must develop a pre-job safety plan outlining any hazards and the procedures it will use to eliminate those hazards. Subcontractor will review its plan with PEPPER's field supervisory personnel and crews. This plan is to be submitted to the PEPPER Superintendent at least two (2) weeks prior to commencing the Work.
- B. The Subcontractor's field personnel assigned to this Project, including subs of the Subcontractor, will abide by the PEPPER **Drug & Alcohol Policy** as further detailed in the Trade Partner Safety Handbook. In addition, Subcontractor will commit to no drug or alcohol use by its employees over the lunch period or any other break time. Subcontractor agrees to remove from the jobsite any of its employees or subsubcontractor employees who violate this policy.

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- Subcontractor shall report immediately to PEPPER any injuries suffered by its employees or any injuries to other persons or property damage arising out of its operation. PEPPER shall be furnished one (1) copy of the written accident report within twenty-four (24) hours of the injury or damage.
- Subcontractor will equip its personnel with all necessary personal protective equipment required by law or PEPPER. This includes, but is not limited to, hard hats, eye protection, foot and hand protection, ear protection, fall protection and respiratory protection.
- Subcontractor will protect all its employees when using electric power equipment by utilizing Ground Fault Circuit Interrupters at all times. As supplemental protection, the Assured Equipment Grounding Program may be implemented. All branch circuit conductors shall be permitted only within cable assemblies or be multi-conductor cord or cable of a type identified for hard usage or extra hard usage. NEC Table 400-4 lists "hard" and "extra hard" usage wire types.
- All of the Subcontractor's scaffolds and ladders shall be in compliance with all required safety regulations and manufacturers' requirements.
- Subcontractor will comply with all applicable standards contained within OSHA's Construction Industry Regulations, Subpart M. With regard to steel erection and decking, Subcontractor and its employees shall comply with specific fall protection guidelines as contained within the PEPPER Trade Partner Safety Handbook and within the Instructions to Bidders. In addition, those Subcontractors engaged in the steel erection process will comply with all requirements of the revised Subpart R Standard, except where the requirements of PEPPER's Trade Partner Safety Handbook are more stringent. In such cases, the Subcontractor will abide by the stricter standard.
- Subcontractor agrees to require all of its employees and sub-subcontractor's employees to abide by OSHA regulations and PEPPER's Trade Partner Safety Handbook on all PEPPER Projects. Subcontractor shall provide training to all of its employees with regard to the possible hazards associated with the tasks each employee performs and each employee must know and understand all of these safety regulations. Prior to entering the PEPPER jobsite, ALL PERSONS performing Work must attend the PEPPER jobsite safety orientation training.
- Subcontractor's employees are required to attend PEPPER's Jobsite Orientation, prior to beginning Work on the site. Subcontractor shall coordinate and schedule the orientation with PEPPER's Superintendent in a timely manner for all personnel for this Project. This mandatory orientation consists of a general safety orientation and a Project-specific orientation for each person entering a PEPPER jobsite.
- Subcontractor shall ensure that its jobsite supervisor has completed the 30-hour OSHA Construction Safety Course and Subcontractor shall provide PEPPER with certification of such training prior to the start of its Work.
- Subcontractor shall perform a daily task hazard analysis and provide documentation of the same to the PEPPER Superintendent.
- Subcontractor will hold weekly Tool Box Safety Meetings, led by its jobsite supervisor. Minutes of the Tool Box Safety Meetings, as well as a signature sheet of all attendees, are to be turned in to the PEPPER jobsite Superintendent weekly.
- Subcontractor must provide first-aid equipment to be made accessible to its employees.
- Subcontractor agrees to submit all necessary Material Safety Data Sheets, MSDS-OSHA Form 20 or equivalent, for all hazardous substances introduced on the jobsite and shall inform PEPPER's office prior to its introduction to the jobsite. Subcontractor must be in compliance with the OSHA Hazard Communication Standard 1926.59. It is imperative that the Material Safety Data Sheets be on file in PEPPER's office prior to Subcontractor's starting work on the site.

12. Price Escalation

This Subcontract includes any and all price escalation throughout the duration of the Project.

13. Time

TIME IS OF THE ESSENCE OF THIS SUBCONTRACT! Subcontractor shall supply a sufficient number of competent workers and shall cooperate with PEPPER and other Subcontractors in the scheduling and performance of its Work. Subcontractor shall commence its Work upon notification from PEPPER and will proceed towards completion in accordance with the Project Schedule as described in Exhibit E established by PEPPER. which may be adjusted from time to time to allow for proper coordination of all trades' work. Should Subcontractor fail to pursue or complete its Work in accordance with the Schedule established by PEPPER, it hereby agrees to indemnify PEPPER for any loss or damages caused by such delay, including all consequential damages suffered by PEPPER as the result of such delay.

Extensions of time for delays not caused by the Subcontractor or not within the Subcontractor's control shall be strictly governed by the terms of the Contract Documents. Subcontract must give PEPPER written notice of any potential delay within three (3) business days, or as otherwise stipulated within the Contract Documents, after such occurrence with an estimate of the additional time needed to overcome the delay. In no event will Subcontractor be entitled to any consideration for delays if it fails to give PEPPER written notice of the delay and such potential claims shall be deemed waived. Anything in the Contract Documents or this Subcontract Agreement to the contrary notwithstanding, an extension of time hereunder shall be Subcontractor's exclusive remedy in the event of a delay, no matter how or by whom caused and Subcontractor specifically waives any right it may otherwise have to increase in Subcontract Price or damages because of any delays. However, should Owner pay PEPPER for any excusable delays to Subcontractor's Work, PEPPER will adjust this Subcontract Price accordingly.

14. Schedule/Coordination/Labor Harmony

Subcontractor is obligated to perform work in accordance with the schedule as follows:

Subcontractor is required to prepare its detailed schedule within the scope of the preliminary Project Schedule so as not to impede the stated Project completion time.

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- Subcontractor's assistance and input, with detailed breakdown of work items and duration for each, is required to develop an agreeable and accurate final Project Schedule. Subcontractor shall submit a statement outlining start date(s), completion date and estimated times for delivery of the major components of its Work. Schedules shall be in the form of a bar chart and indicate durations in weeks. The schedule shall indicate, in detail, the status and progress of shop drawings and submittals, fabrications, delivery, and installation start/complete dates for various stages of Work. Subcontractor shall provide a detailed schedule five (5) business days after Subcontract is awarded.
- C. Subcontractor shall cooperate and coordinate its Work with all other contractors and furnish them all details and information required for proper coordination of Work.
- Subcontractor shall designate a single representative assigned to the Project who will be responsible for attending meetings, monitoring schedules and coordinating all activities. Subcontractor's representative shall have the authority to commit the Subcontractor to solutions and/or actions as agreed in these meetings.
- Regularly scheduled progress meetings shall be held weekly, unless otherwise scheduled. It will be the responsibility of each Subcontractor to attend these meetings to determine the status of the Project and to report on the status of its Work.
- It is expressly understood that scheduling requirements may require temporary omissions and out of sequence work as designated by PEPPER's Superintendent. All "come back" work required for this or other out of sequence work, including remobilization, shall be completed on a timely basis at no additional cost to PEPPER.
- G. The Subcontractor shall (and shall expressly require in writing any of its sub-subcontractors to) employ only field labor and tradesmen to perform work on the site whose presence of the job will not result in strikes, work stoppages, picketing, or other labor disputes with any other field labor and tradesmen present on the Project site. The Subcontractor shall manage its work force so as to avoid labor disputes with its own or other trades on the job and shall keep current in the payment of all wages and benefits required to be paid to or on behalf of its employees working on the job under any collective bargaining agreements or trust agreements to which it is signatory. The diligent progress of the Work is of the essence and Subcontractor's violation of this clause shall be a material breach of this Agreement.

15. Overtime

When ordered in writing by PEPPER, Subcontractor shall perform base Subcontract Work during overtime hours. In the event overtime work is required because of Subcontractor's own delays to the Project Schedule, i.e. insufficient manpower, submitting shop drawings and other submittals too late for approval per the Project Schedule, no additional compensation will be granted. In the event overtime is required because of delays of others, Subcontractor shall be compensated for the net increased labor costs only.

16. Shop Drawings and Submittals

Subcontractor shall promptly submit Shop Drawings, Product Data, Samples and similar submittals required by the Contract Documents with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of PEPPER or other subcontractors.

17. Performance/Assignment/Amendments

PEPPER's failure to require strict performance of any provision of this Subcontract shall not constitute a waiver of its right to require strict performance in the future. Subcontractor shall not assign this Subcontract without the prior written permission of PEPPER. Any assignment for the benefit of Creditors, of Accounts, of Receivables or of any monies due under this Subcontract to a Creditor, Lender or Trustee shall be a material default of this Subcontract. A sale of a majority interest in Subcontractor shall be considered a default under this Subcontract. Once executed, this Agreement may only be amended in writing by PEPPER and the Subcontractor.

18. Default by Subcontractor

Should the Subcontractor fail in any manner to perform its Work properly or default in the performance of any provision of this Subcontract or suffer any delay not accepted by PEPPER and Owner as authorized under the Contract Documents, or should the Subcontractor suffer any form of financial distress so that it could not give reasonable assurance to PEPPER that it can continue to perform its obligations under this Subcontract, PEPPER may give written notice to the Subcontractor to begin with all necessary diligence to cure such defaults within a twenty-four (24) hour period or failing to do so, PEPPER may, without prejudice to any other remedies it may have under the law or in equity, terminate this Agreement and look to the Subcontractor for payment of all damages which it incurs ("Termination for Default"). PEPPER's remedies shall include but not be limited to, its right to proceed with the Work with its own forces or with other contractors on a time and material or other appropriate basis, the cost of which will be charged against the balance of any sums due Subcontractor. In the event of such a breach, in addition to any other remedy PEPPER may have, the Subcontractor agrees to indemnify, defend, and hold PEPPER harmless from all losses, damages, expenses (including reasonable attorneys' fees), as well as any judgments suffered by PEPPER as a result of Subcontractor's acts or omissions in the performance of its Work. PEPPER shall have the right of set-off and to deduct from any balance due under this Subcontract Agreement or any other accounts of subcontracts under which PEPPER is holding funds due the Subcontractor, the amount of any losses, damages, or expenses as described above.

19. Legal Fees

In the event that PEPPER is deemed to be the prevailing party in any legal proceeding, arbitration or other form of dispute resolution procedure that may be commenced between the parties to this Agreement, whether in contract or in tort, PEPPER shall be entitled, in addition to such other relief as may be granted, to a reasonable sum for attorneys' fees and costs, which sum shall be determined by the court or forum in such proceeding.

20. Termination for Convenience

PEPPER shall have the absolute right to terminate all or part of the Work under this Subcontract for its own convenience with or without reason and in its sole discretion by giving written notice of termination effective upon receipt thereof by Subcontractor ("Termination for Convenience"). Termination for Default, if wrongly made, shall be treated as Termination for Convenience. If PEPPER terminates all or part of this Agreement for convenience, the Subcontractor shall be paid the actual cost of the Work, which includes materials and labor in place, plus the actual cost of any

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materials properly delivered and stored on or off site at the direction of PEPPER (if PEPPER elects to retain such stored materials), plus a pro rata percentage of the Subcontractor's fee or stated profit equal to the percentage of completion (whichever is less), and which amounts are actually paid to PEPPER by Owner. If PEPPER terminates this Subcontract for convenience, Subcontractor shall not be entitled to anticipated profits on unperformed portions of the Work or to punitive or consequential damages. All of Subcontractor's warranty, guaranty, indemnity and dispute obligations for Work performed shall survive such Termination for Convenience

21. Key Personnel

Subcontractor hereby agrees that key personnel assigned to the Project will remain for the duration of this Work. Reassignment or removal of said key personnel will require PEPPER's approval.

22. Sub-Subcontractors

Subcontractor agrees not to sub-subcontract more than Five Percent (5%) of this Subcontract Agreement without the written consent of PEPPER. For all proposed sub-subcontractors in excess of Five Percent (5%), Subcontractor shall furnish PEPPER an AIA Document A-305 or equal Subcontractor's Qualification Statement, not less than five (5) business days prior to final execution of any sub-subcontractor agreement. In accordance with Project Contract Documents as defined in Article 1, Subcontractor agrees it shall not contract with any such proposed person or entity to whom the Owner or the Architect has a reasonable objection.

Subcontractor agrees that any part of Work performed for the Subcontractor by an approved sub-subcontractor shall be pursuant to a written subcontract between the Subcontractor and each sub-subcontractor. Said written subcontract shall contain provisions that:

- A. Require the work be performed in accordance with the requirements of the Contract Documents.
- B. Require the sub-subcontractor to carry and maintain liability insurance coverage in accordance with the Contract Documents.
- C. Require the sub-subcontractor to agree to the construction schedule as outlined and/or detailed in Article 14, above.
- D. Require the sub-subcontractor to acknowledge that PEPPER is an explicit third-party beneficiary of the subcontract between the Subcontractor and sub-subcontractor.
- E. Require that the sub-subcontractor provide waivers and other required billing materials as set forth in Article 47, below.
- F. Unless PEPPER requires current waivers of lien, upon receipt of payment from PEPPER, Subcontractor shall promptly disburse from such payment, in exchange for waivers, the sums due and owing to any sub-subcontractor and/or material supplier for its work included in PEPPER's payment to Subcontractor. Waivers must be supplied for sub-subcontractors and/or material suppliers at the time they are listed in the "This Payment" section of the Contractor's Affidavit provided within the waiver, and further lower tiers upon request.
- G. Require the sub-subcontractor to indemnify and hold harmless the Owner, Architect, PEPPER and the Subcontractor from any and all claims for bodily injury by an employee of the sub-subcontractor or anyone directly or indirectly employed by it or for anyone whose acts it may be liable without limiting or restricting such indemnity by a limitation on the amount or type of damages, compensation or benefits payable by or for the sub-subcontractor under Workers' or Workmens' Compensation Acts, disability benefit or other employee benefit acts.

23. Access/Parking

The use of and access to the site shall be restricted to those areas and limited to those temporary roads authorized and designated by PEPPER's on-site Superintendent.

Parking on the jobsite is restricted to company vehicles and equipment only if allowed by PEPPER's Superintendent. Subcontractor's employees shall park in the designated areas.

24. Jobsite Offices/Storage

The Project site may have limited space available for storage; therefore, any on-site storage will require prior approval of PEPPER and the Project Superintendent. Subcontractors' jobsite trailers, materials, tools and equipment may be stored on the jobsite at locations approved by PEPPER and must be removed or relocated when directed. Subcontractor shall use, for this purpose only, the minimum space that is absolutely required for proper performance of the Work. Any damage or losses resulting from storage of material, tools and equipment shall be remedied at the cost of the Subcontractor. Each Subcontractor shall be responsible for erection, dismantling, maintenance, utilities, security, etc., that it may deem necessary in setting up its trailers, sheds and storage area.

Subcontractor may establish a temporary office at the jobsite except that the exact size and location of said facilities shall be subject to the approval of PEPPER's Superintendent. The temporary office, along with any electrical, telephone or similar service for this field office, shall be the responsibility of the Subcontractor. As the Work progresses, Subcontractor agrees to relocate and/or remove said facilities upon seventy-two (72) hours written notice form PEPPER's Superintendent.

25. Temporary Facilities

Temporary facilities furnished by PEPPER for this Subcontractor's use on the site shall be limited to the following:

- A. Temporary sanitary services for Subcontractor's personnel.
- B. Temporary non-potable water service only after the permanent tap is made at water main. Water will be available at a minimum of one location, adjacent to the construction area. It shall be the Subcontractor's responsibility to provide hook-ups and extensions as required and to coordinate with PEPPER's on-site Superintendent.

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- C. Temporary power and lighting for the building shall be specific to OSHA standards and provided by the electrical contractor for all contractors' use. If special or additional services are required, arrangements through the PEPPER on-site Superintendent will be necessary. However, the contractual relationship shall be directly between the on-site electrical contractor and Subcontractor.
- D. Temporary power will be limited to 120-volt, single-phase temporary electric service in the construction area only after temporary or permanent power is established on the jobsite. If temporary power is not available or is insufficient for the Subcontractor, the Subcontractor shall furnish generators at its expense. The Subcontractor shall be required to provide extension cords for all power tools.

26. Hoisting and Scaffolding

Subcontractor agrees to be solely responsible for all hoisting of materials and all scaffolding necessary for the performance of its own Work unless otherwise stated. Unless expressly provided for in this Scope of Work, no provisions for hoisting or scaffolding will be provided by PEPPER. Any scaffolding or hoisting equipment used by Subcontractor must conform to all local code requirements including, but not necessarily limited to, those of state and federal OSHA. Subcontractor shall keep and maintain current maintenance logs for all cranes utilized by Subcontractor as of the date such cranes are delivered to the jobsite. All logs shall be readily available for review by PEPPER upon request.

27. Daily Reports

Subcontractor will submit a daily report to PEPPER's Superintendent for each day Subcontractor is working on the Project. The daily report should state:

- A. The number of tradesmen that worked;
- B. The positions of those tradesmen;
- C. The number of hours each tradesman worked;
- D. The specific hours each tradesman worked;
- E. The shift worked by each tradesman: 1st, 2nd, or 3rd;
- F. A brief description of the day's activities;
- G. A two-day look ahead for scheduling purposes;
- H. Any inspections, problems or otherwise pertinent information; and
- I. Accidents that occurred during the day, if any.

28. Material Delivery

Material delivery to the jobsite shall be handled in accordance with the following:

- A. Cost of all shipping of materials, freight to the jobsite and insurance of same is the responsibility of the Subcontractor.
- B. Subcontractor must notify PEPPER's on-site Superintendent forty-eight (48) hours prior to delivering any materials. Copies of the delivery ticket will be stamped, showing the actual time and date shipment was received.
- C. Each shipment of material shall contain a packing slip with the correct nomenclature of contents and the box or carton containing this information must be so marked. At the time of shipment, one (1) copy of said packing slip shall be forwarded to the destination of shipment to alert PEPPER's Superintendent as to what material is in transit so that arrangements can be made at least forty-eight (48) hours in advance to receive, allocate and store said material.

If Subcontractor fails to adhere to the foregoing notification and other requirements, PEPPER reserves the right to refuse, warehouse, or return to the carrier the shipment in question. All related costs incurred by PEPPER, e.g., handling, storage, protection, etc., will be borne by Subcontractor.

29. Owner's Work Forces

Subcontractor is advised that the Owner may, at its discretion, employ other contractors or employees of the Owner to perform work on this Project. In such event, Subcontractor shall cooperate in scheduling activities in order that the work of all parties can be completed on a timely basis.

Subcontractor hereby agrees not to perform any work directly for the Owner, or its agents, on the Project while under contract with PEPPER without PEPPER's prior approval, which shall not be unreasonably withheld. Failure to abide by this provision will be considered a material breach of this Subcontract Agreement.

30. Layout and Engineering

All Subcontractors will perform layout and engineering as required to complete the Work within the scope of their respective Subcontracts from vertical and horizontal principal control lines and grades established by PEPPER.

31. Protection of Work

Subcontractor shall take reasonable precautions for safety of and shall provide reasonable protection to prevent damage, injury, or loss to:

- A. Employees on the jobsite and other persons who may be affected;
- B. The work and materials and equipment to be incorporated therein, whether in storage on or off the site, under care, custody, or control of the Subcontractor or sub-subcontractors; and
- C. Other property at the site or adjacent thereto, such as trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.

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Subcontractor shall promptly remedy damage and loss (other than damage or loss insured under property insurance required by the Contract Documents) to property as described above caused in whole or in part by the Subcontractor or its sub-subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for whom the Subcontractor is response, except damage or loss attributable to acts or omissions of the Owner, Architect, PEPPER or anyone directly or indirectly employed by them, or by anyone for whose acts they may be liable and not attributable to the fault or negligence of the Subcontractor.

32. Dewatering

Subcontractors who are performing excavation, trenching, utility and/or concrete work are responsible for keeping their excavations free of water during construction.

33. Subcontractor's Tools and Equipment

Subcontractor shall assume all risks and liability for damage or loss to all materials, tools or equipment not incorporated into the Work and which belong to it or are under its care, custody or control.

34. Cleanup

Subcontractor must provide cleanup and disposal of debris resulting from its Work on a daily basis in order keep the Project clean, orderly and hazard free. Material will be placed in dumpsters provided by PEPPER. Location of dumpsters will be at PEPPER's discretion.

Upon completion of its Work and prior to leaving the site, Subcontractor must receive approval and acceptance by PEPPER that all final cleanup requirements have been met and that the area is ready for final inspection. When directed in writing in the field by PEPPER's Superintendent, Subcontractor agrees to clean up all debris attributable to its Work within twenty-four (24) hours' written notice for any given work area, or accept the appropriate back charges for clean-up performed by PEPPER or other contractors, which will be billed to Subcontractor on a monthly basis no later than the following month in which the charges are incurred.

35. Environmental Compliance

Subcontractor agrees to comply with pollution and environmental protection regulations for the use of water and other services. Subcontractor further agrees to discharge wastes and storm water drainage from the Project site and to comply with any "Environmental Impact" commitments that may have been made by the Owner in securing approval to proceed with construction of this Project. All waste materials and substances (e.g., solvents, cleaners, waste oils, etc.) shall be handled and /or disposed of by this Subcontractor in full compliance with all applicable federal, state and local statutes, regulations, ordinances and rules.

36. Cutting and Patching

Subcontractor shall perform cutting, patching, fire safing and caulking, as required to complete the Work within the Scope of its Subcontract.

37. Revisions/Changes

When PEPPER so orders in writing, the Subcontractor shall make any and all changes in the Work which are in the general Scope of this Agreement. Adjustments in the Subcontract Price or Subcontract time resulting from such changes, if any, shall be set forth in a Subcontract Change Order pursuant to the Contract Documents. No adjustment shall be made for any changes performed by the Subcontractor that have not been ordered in writing by PEPPER.

As additional information or revisions are provided by PEPPER, Owner or Architect, the Subcontractor shall review the same for its Work and notify PEPPER within ten (10) business days of any cost or schedule changes to the Subcontract Agreement. If no response is received within this time frame, it will be assumed that no additional costs or time extensions will apply. Any changes which are made without prior written authorization of PEPPER's Project Manager will be done at Subcontractor's own risk and payment for such changes is not guaranteed. All revisions causing potential cost increases to the Subcontractor must be approved prior to commencement of said Work. Compensation for extra work shall be by one or more of the following methods at the option of PEPPER:

- A. Unit prices contained in the Scope of Work:
- B. Alternate prices contained in the Scope of Work;
- C. Negotiated lump sums;
- D. Negotiated unit prices; or
- E. Cost plus compensation.

In the case of cost plus compensation, costs shall be defined as and specifically include the following: Cost of materials, including sales tax and cost of delivery; cost of labor in the field, including social security, old age and unemployment insurance; Worker's Compensation and general liability costs; bond premiums and rental value of the power tools and equipment at rates not to exceed those contained in the current edition of the Associated Equipment Distributors Construction Equipment Rental Rates.

Overhead and profit shall include the following: Costs to prepare estimates or shop drawings, wages of superintendents, project managers, non-working foremen (unless specifically included in the Scope of Work), timekeepers, watchmen and clerks; hand tools; incidentals; general office expenses; interest expense; warranty expenses and all other expenses not included in "costs" as defined above.

Unless otherwise stipulated in the Owner Agreement, the following percentages for overhead and profit are to be added to Subcontractor's approved costs:

1) For any work performed by Subcontractor's own forces, 10% for overhead and 5% for profit.

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2) For work performed by sub-subcontractor, 0% for overhead and 5% for profits of the amount due the sub-subcontractor.

To facilitate checking of quotations for extras or credits, all proposals must be accompanied by complete itemization of cost including labor, materials, equipment and sub-subcontractors.

For Field Changes, time and material tickets signed by the PEPPER Superintendent at the jobsite are to verify actual hours worked, materials and equipment used and must be signed within twenty-four (24) hours of completing the Work. The verification that the Work is additional work outside of the contractual Scope is subject to approval by PEPPER's Project Manager. No changes will be approved without such itemization. For Field Changes, Extra Work Orders or any other type of Change Directive where the performance of the additional work comes before the approval of the cost, the Subcontractor shall promptly submit its Change Request within the time directed by PEPPER but if a specific amount of time is not set for submission of such costs, then not later than twenty-one (21) business days after the completion of the additional work.

A Pending Change Request Log shall be submitted electronically by the Subcontractor to the PEPPER Project Manager at the time of each monthly Application for Payment submission. Such Log shall identify any outstanding change requests ("CRs") as well as correlating CR date, description, dollar value and the status of the Change Request. Receipt of such Log does not imply acknowledgement or approval of identified CRs, but rather that such CRs have been submitted for review. CRs are finalized when incorporated into Subcontractor's Subcontract via Change Order. Change Order pricing must be in accordance with the Contract. Monthly progress payments may be delayed or withheld by PEPPER if such Pending CR Log is not timely provided by Subcontractor to PEPPER.

38. Testing

Subcontractor will be responsible for costs of retesting and correcting or replacing Work that fails the Owner's testing or that of local authorities. This Subcontractor is also responsible for all costs incurred by other trades due to testing failure of its Work.

39. Punch List

All punch list work will be completed within ten (10) business days. Subcontractor will give written notification upon completion of punch list.

40. Record Documents

Subcontractor is required to maintain an up-to-date set of "As-Built" drawings at all times. At the completion of Subcontractor's Work, Subcontractor will provide to PEPPER the number of copies of "As-Built" drawings that are required per the Contract Documents and one (1) additional copy of PEPPER's use. Subcontractor is also to provide copies of Owner's Operational/Instructional/Maintenance Manuals and training as required by the Project Specifications.

41. Warranties

Subcontractor shall provide a separate written warranty in triplicate at the time of final billing, guaranteeing its Work against defects in materials and/or workmanship for the period required in the Specifications. If required by the Contract Documents, Subcontractor shall also provide a manufacturer's warranty for installed materials and equipment. All warranties shall meet the express terms and conditions required under the provisions of the Contract Documents for the period called for in the Specifications or, if not specified, for twelve (12) months from acceptance of Project by Owner. Subcontractor shall promptly repair or replace any such defects occurring within the warranty period without cost or liability to PEPPER or Owner.

42. UAS Usage

Subcontractor shall not be permitted to use an unmanned aircraft system ("UAS") on the Project site without the prior written approval of PEPPER. Should the use of any UAS be permitted, Subcontractor shall submit proof of compliance with all Federal Aviation Administration, state, county, local, and any other applicable laws and regulations in effect, as well as any other identified requirements and provide proof of insurance as set forth within Exhibit C Insurance Requirements at Article H.

43. Equal Employment Opportunity

Nondiscrimination. Affirmative Action and Federal Contract Compliance:

During the performance of this Subcontract, the Subcontractor agrees as follows:

- The Subcontractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Subcontractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer, recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Subcontractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause.
- To supplement Paragraph 1 above (to the extent applicable and that additional requirements are proscribed in the following), pursuant to 41 C.F.R. Sections 60-1.4(d), 60-250.5(d), and 60-741.5(d), PEPPER incorporates by reference the provisions found at 41 C.F.R. Sections 60-1.4(a)(b), 41 C.F.R. Section 60-4.3(a), 41 C.F.R. Section 60-250.5 and/or Section 60-300.5, and 41 C.F.R. Section 60-741.5, Executive Order 13496 and 29 C.F.R. Part 471, Appendix A to Subpart A, if applicable, into this Subcontract. Subcontractor is hereby notified that it has an obligation to determine whether the Work it is performing, or the goods and services it is providing to PEPPER, are provided pursuant to a federal government contract or a federally assisted construction contract. If so, Subcontractor shall determine the extent to which the provisions of Executive Order 11246, the Vietnam Era Veterans' Readjustment Assistance Act of 1974, and Section 503 of the Rehabilitation Act of 1973, as amended, along with their respective implementing regulations found at 41 C.F.R.

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Part 60, apply to the terms of this specific Subcontract and shall comply with such provisions. Note: federal construction subcontractors or federally-assisted construction subcontractors are advised to review the Department of Labor's, Office of Federal Contract Compliance Programs (OFCCP) Technical Assistance Guide for Federal Construction Contractors to understand the requirements for both federal contractors and subcontractors.

3) The Subcontractor shall comply with all federal, state, and local equal employment and affirmative action statutes, rules and regulations including, to the extent applicable given the geographical location of the Project (and not in limitation of any other particular law that would pertain to the Subcontractor's Scope of Work), and the Indiana Civil Rights Law, IC 22-9 and 910 IAC, the Indiana Prevailing Wage Act, IC 5-16-7, et seq., if applicable, and any subsequent amendments to or regulations thereof.

B. Default

Violation of any anti-discrimination or affirmative action requirements, whether or not expressly described herein, that are lawfully imposed on the operation of the Subcontractor's business in the performance of the Scope of Work described herein, shall be a material breach of this Subcontract and a basis for default under Article 18, above.

44. Scope of Work

Scope of Subcontractor's Work shall include, but not necessarily be limited to, the following: See Scope of Work, attached hereto at **Exhibit B**.

45. <u>Dispute Resolution</u>

- A. If arbitration of disputes is provided for in the Contract Documents, and if PEPPER, in its sole discretion, elects to demand arbitration with Subcontractor individually, or as part of joint proceedings with Owner or others, any dispute between PEPPER and Subcontractor involving or arising out of this Subcontract Agreement, including the breach thereof, shall be decided by arbitration as provided for in the Contract Documents. If PEPPER elects to demand arbitration with Subcontractor individually and subject to applicable law, such arbitration proceedings shall be held in Indianapolis, IN or such other place as PEPPER may designate. The award rendered by the arbitrator(s) shall be final, and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof.
- B. If the Contract Documents do not provide for arbitration, and if PEPPER, in its sole discretion, elects to demand arbitration with Subcontractor individually, or as part of proceedings with Owner or other parties, any dispute arising between PEPPER and Subcontractor under the Subcontract Agreement, including the breach thereof, shall be decided by arbitration in accordance with the then current Construction Industry Arbitration Rules of the American Arbitration Association. The venue of such arbitration shall be Indianapolis, IN or such other place as PEPPER may designate. The award rendered by the arbitrator(s) shall be final, and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof.
- C. Subcontractor further agrees that, upon request by PEPPER, resolution of any dispute between PEPPER and Subcontractor may be consolidated with resolution of any dispute between Owner and PEPPER, whether in litigation or arbitration, at PEPPER's sole discretion, and that Subcontractor will join in and be bound by the result of any such dispute resolution process, even if such consolidation and/or joinder requires resolution of Subcontractor disputes in a forum not provided for in this Subcontract and/or otherwise not selected by Subcontractor and even if Subcontractor is not permitted to become a named party to such proceeding or process. Subcontractor agrees not to institute (and to stay) legal remedies against PEPPER until all legal proceedings against Owner with respect to such claim are final and complete. Subcontractor shall not be entitled to and hereby agrees to make no claim for further payment beyond the Subcontract Price for costs arising out of the site conditions, acts, errors, or omissions of Owner, Architect, or other agents or representatives of Owner, other than to the extent that PEPPER may receive funds from the Owner on behalf of Subcontractor, which funds shall be paid by PEPPER to Subcontractor less costs and expenses incurred by PEPPER in prosecuting such claims.
- D. Notwithstanding any provision to the contrary, any dispute involving Owner, PEPPER and Subcontractor shall be resolved in accordance with the law specified in the Owner Agreement.

46. Strict Compliance

Subcontractor is bound to strict compliance with this Subcontract Agreement. PEPPER's failure to insist upon strict compliance with any of the provisions of this Agreement, or failure to exercise any options provided, shall not be construed as a waiver or an estoppel of PEPPER's right to thereafter require such strict compliance or to exercise such option.

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47. <u>BILLING PROCEDURES</u> PEPPER CONSTRUCTION COMPANY OF INDIANA, LLC ACCOUNTING PACKAGE SUBCONTRACTOR APPLICATION FOR PAYMENT AND PAYMENT CONDITIONS

The following terms and conditions are an integral part of Subcontract Agreem	ent		
Please direct any billing questions to PEPPER's Accountant for this Project, $_$	at	and	

APPLICATION FOR PAYMENT

PEPPER CONSTRUCTION COMPANY OF INDIANA, LLC IS ONLY ABLE TO PROCESS INVOICES THROUGH OUR ACCOUNTING SYSTEM AFTER OUR SUBCONTRACT AGREEMENT HAS BEEN SIGNED WITHOUT ALTERATION AND RETURNED TO US, INCLUDING APPROPRIATE INSURANCE AND SAFETY DOCUMENTATION.

CHANGES TO SUBCONTRACTOR'S SUBCONTRACT CANNOT BE BILLED UNTIL A FORMAL CHANGE ORDER HAS BEEN RECEIVED BY SUBCONTRACTOR FROM AN AUTHORIZED REPRESENTATIVE OF PEPPER CONSTRUCTION COMPANY OF INDIANA, LLC AND EXECUTED BY BOTH SUBCONTRACTOR AND PEPPER. ONCE APPROVED, CHANGES SHOULD NOT BE SEPARATELY BILLED, BUT SHOULD BE INCLUDED IN SUBCONTRACTOR'S MONTHLY BILLING AT THE REVISED SUBCONTRACT AMOUNT.

1. Given the requirements of the Owner Agreement, Applications for Payment for Work performed and accepted by Owner, shall include the following:

One (1) of each of the following documents:

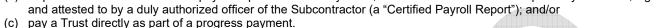
- a) Affidavit, which must include values for sub-subcontractors in the "Amount of This Request" column at the time the subsubcontractors are listed in the "Completed This Period" column of the Schedule of Values;
- b) Application and Certificate for Payment signed and notarized (AIA G702);
- c) Schedule of Values (AIA G703) in format approved by PEPPER;
- d) Stored materials documentation, as required by Owner;
- e) Pending Change Request Log, submitted electronically, identifying outstanding Change Requests ("CRs"), as well as correlating CR date, description, dollar value and status of the Change Request, as further described at Article 37; and

Three (3) of each of the following documents:

- f) Partial or Final Waivers of Lien as required, including waivers from all sub-subcontractors and Material Suppliers listed in the "This Payment" section of the Contractor's Affidavit provided within the Waiver, and for further lower tiers upon request.
- 2. All invoice packages must be received no later than the 15thth of the month for Work performed, as projected, from the first to the last day of the month. Invoice packages not received by this deadline WILL NOT be processed until the following month.
- 3. Unless PEPPER requires current Waivers of Lien, upon PEPPER's receipt of payment form the Owner, Subcontractor will be contacted with the correct information to be included in the Waiver. The Waiver and Affidavit form to be used shall be that attached hereto, unless otherwise specified by Owner.
- 4. Subcontractor shall, as often as requested by PEPPER, furnish such information, evidence, and substantiation as PEPPER may require with respect to the extent and value of the current progress of Subcontractor's Work. Subcontractor shall also furnish, upon request, similar detail regarding the nature and extent of all obligations incurred by Subcontractor in connection with the Work and all payments made by Subcontractor on account thereof.
- 5. Subcontractor shall also furnish, as required by PEPPER in its sole discretion, such partial or final lien waivers or releases as PEPPER deems necessary to ensure that Subcontractor has paid all parties furnishing any labor, material, or services in furtherance of any Work furnished hereunder. If required by PEPPER, the furnishing of such lien waivers and releases shall be a condition precedent to any payment hereunder. Moreover, no prior failure of PEPPER to require such releases and waivers shall limit PEPPER's right to subsequently require them.
 - 6. Accordingly, Subcontractor is intended to assume the risk of Owner's non-payment under the circumstances set forth herein. Owner's payment to PEPPER is a condition precedent to PEPPER's obligation to pay Subcontractor unless the Owner's refusal to pay is due to a material breach by PEPPER of its Agreement with the Owner unrelated to the Work of the Subcontractor. If payment to PEPPER is received from Owner and provided the billing and insurance requirements have been met as required under this Subcontract Agreement, all payments by PEPPER on Subcontractor's Work accepted by Owner shall be made in the net amount of its request within two (2) business days of receipt of Owner's payment.
- 7. At the time the Final Waiver is required, it shall be in the full amount of the adjusted Subcontract Price.
- 8. Retainage shall be held in accord with the Contract Documents between Owner and PEPPER and paid to Subcontractor after approval and acceptance by Owner and upon payment by Owner to PEPPER.

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- In the event Subcontractor suffers financial distress as described in Article 18, above, PEPPER shall, in its sole and absolute discretion, have the right but not the obligation to pay sub-subcontractors or suppliers directly or tender payment jointly to Subcontractor and lower tiers.
- 10. Subcontractor and its lower tier subcontractors shall be solely responsible for and make all contributions or payments required to be made to any health and welfare, pension, vacation, apprenticeship, training or other fringe benefit or employee benefit program or trust with whom Subcontractor or its lower tier subcontractors are affiliated (collectively, a "Trust") within thirty (30) days from receipt of payment from PEPPER. As a condition precedent to any progress payment, PEPPER shall have the right to:
 - a) require lien waivers and other certification of payment and confirmation (such as a letter of good standing), for the benefit of PEPPER, that Subcontractor and its lower tier subcontractors are current (within thirty (30) days) in making all contributions or payments to a Trust;
 - (b) require Subcontractor to submit payroll reports on a weekly basis, in form and substance as required by PEPPER, signed and attested to by a duly authorized officer of the Subcontractor (a "Certified Payroll Report"); and/or





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WAIVER OF LIEN TO DATE

STATE of) SS County of) SS									
TO WHOM IT MAY CONCERN WHEREAS the undersigned has the owner.		to furnish for the	premises known a	of whic	h is				
THE undersign considerations, the receipt where lien, under the statutes of the Stat the improvements thereon, and or considerations due or to become furnished to this date by the under the statute of	e of, relating to n n the material, fixtures, app due from the owner, on acc	, do(es) hereby waive and nechanics' liens, with responsatus or machinery furn count of labor, services, n	I release any and a pect to and on said ished, and on the r naterial, fixtures, a	Il lien or claim of, above-described noneys, funds or o	or right to, premises, and other				
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Signat	ure and Seal:								
	*Extras include but are not limited to change orders, both oral and written, to the contract CONTRACTOR'S AFFIDAVIT								
STATE of) SS County of) SS									
TO WHOM IT MAY CONCERN THE undersigned, being duly swe the building located at over that the total amount of the control section of section prior to this payment. It claim, either legal or equitable, to furnished material or labor, or bo for material entering into the constall labor and material required to	orn, deposes and says that when by ract, including additional wards. That all waivers are true, o defeat the validity of said th, for said work and all pastruction thereof and the ar	vork and Change Orders, correct and is genuine and waivers. That the followarties having contracts or mount due or to become d	is \$ on whi d delivered unconc ing are the names of subcontracts for sp ue to each, and tha	ch he/she has rece litionally and that of all parties who pecific portions of	eived payment there is no have said work or				
NAMES	WHAT FOR	CONTRACT PRICE INCLUDING EXTRAS*	AMOUNT PAID	THIS PAYMENT	BALANCE DU				
TOTAL LABOR AND MATERIAL INCLUDING	EXTRAS* TO COMPLETE								
That there are no other contracts: labor or other work of any kind d					for material,				
	Signed this day	of, 20							
	Signature:				_				
Subscr	ribed and sworn to before i	me this day of	, 20						
	Signature:								
*Extras include but are not limited to char	nge orders, both oral and written,	to the contract							

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FINAL WAIVER OF LIEN

STATE of) SS County of) SS					
TO WHOM IT MAY CONCER WHEREAS the undersigned hat the owner.		_ to furnish	for the premises know	n as of whic	h is
THE undersig considerations, the receipt when lien under the statutes of the Sta the improvements thereon, and considerations due or to become heretofore furnished, or which is extras.*	on the material, fixtures, a e due from the owner, on a	ed, do(es) hereby we mechanics' liens, was apparatus or machinaccount of labor, se	vaive and release any and with respect to and on sai ery furnished, and on the rvices, material, fixtures,	all lien or claim of, id above-described pe moneys, funds or c, apparatus or machi	oremises, and other nery,
	my hand and sealed this _		_, 20		
_	ature and Seal:				
*Extras include but are not limited to cl					
STATE of) SS County of) SS	CONT	RACTOR'S AFFI	DAVIT		
TO WHOM IT MAY CONCERTHE undersigned, being duly so the building located at of that the total amount of the corof \$ prior to this paymer claim, either legal or equitable, furnished material or labor, or befor material entering into the coall labor and material required to	worn, deposes and says that owned by Intract, including additional and the true and tr	I work and Change e, correct and is gen tid waivers. That th parties having cont amount due or to b	Orders, is <u>\$</u> on whoming and delivered uncome following are the name racts or subcontracts for ecome due to each, and to	nich he/she has received and that are of all parties who specific portions of	ived payment there is no have said work or
NAMES	WHAT FOR	CONTRACT PRIC		THIS PAYMENT	BALANCE DUE
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*Extras include but are not limited to cl	hange orders, both oral and writte	en, to the contract			

Subcontract Agreement with Page 15 of 15 Rev 060124

INSURANCE REQUIREMENTS



Pepper Construction Company of Indiana, LLC

Subcontractor Insurance Requirements

Subcontractor:

Vendor #:								
PLEASE ISSUE A CERTIFICATE OF INSURANCE FOR THE PROJECT REFERENCED BELOW IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS. SUBMIT TO THE SAME ADDRESS AS SHOWN AS CERTIFICATE HOLDER. THANK YOU.								
JOB DESCRIPTION:								
Job Number: Job Name: Job Address:								
ADDITIONAL INSUREDS TO BE LISTED: (Must be listed exactly as shown)								
Pepper Construction Company of Indiana, LLC								
r epper construction company of indiana, EEC	Owner Architect							
CERTIFICATE HOLDER:								
PEPPER CONSTRUCTION COMPANY OF INDIANA, LLC Attention:								
EVERDIENCE MODIFICATION DATING (FAR):								
EXPERIENCE MODIFICATION RATING (EMR):								
PEPPER CONSTRUCTION COMPANY OF INDIANA, LLC ("PEPPER") has a sprojects and it is important that our subcontractors display that same commitmed Subcontractor instruct its insurance company to send PEPPER a letter indicating three (3) years.	nt. Therefore, PEPPER requests that each							

Any questions, please call

Contractually, the Subcontractor is required to keep a valid Certificate of Insurance on file for a period of three (3) years from the date of Substantial Completion.

Pepper Construction Company of Indiana, LLC Subcontractor Insurance Requirements

Subcontractor shall maintain, at its own expense, during the progress of the Work and throughout the warranty period, insurance written by insurance companies acceptable to PEPPER (as further described below) with the minimum limits and coverage as shown below or, if higher, the requirements set forth in the Contract Documents. For purposes of this Exhibit C - Non-CCIP, subcontractors performing, in whole or in part, the following major trade classifications shall be referred to as "Major Trade Subcontractors": Concrete//Pre-cast Concrete; Curtainwall; Electrical; Elevator; Excavation/Earthwork; Fire Protection; Hoisting/Tower Crane; HVAC; Plumbing/Piping; Shoring/Underpinning; Soil Stabilization; Special Foundations/Caissons, and Steel. To the fullest extent allowed under applicable law, Subcontractor shall comply with the following insurance requirements:

- Unless otherwise required by the Contract Documents, at a minimum, Subcontractor's insurance shall be provided by:
 - Insurer(s) authorized to transact business in the state where the Work or operations will be performed by Subcontractor; and
 - Admitted insurers that maintain an A.M. Best's rating of not less than A-/VIII.
- WORKERS' COMPENSATION including Employers' Liability insurance in an amount of at least:

 - \$1,000,000, bodily injury by accident each accident; \$1,000,000, bodily injury by disease policy limit; and
 - \$1,000,000, bodily injury by disease each employee.

Where applicable, evidence of coverage shall be required for Longshore and Harbor Workers' Compensation, Maritime coverage, and Federal Employers' Liability Act; additionally, Subcontractor's coverage shall include all Other States coverage and other unique exposures requiring endorsement of coverage.

Workers' Compensation coverage must extend to every employee, including owners/officers of a closely held corporation and/or individuals operating as a sole proprietorship or partnership.

COMMERCIAL GENERAL LIABILITY ("CGL"). Major Trade Subcontractors shall provide and maintain a minimum CGL primary insurance limit of not less than \$2,000,000 per occurrence for both Premises/Ongoing Operations, \$2,000,000 Products-Completed Operations aggregate; and \$2,000,000 general aggregate applicable to claims other than Products-Completed Operations. All other subcontractors shall provide and maintain CGL insurance with a limit of not less than \$1,000,000 per occurrence for both Premises/Ongoing Operations, \$1,000,000 Products-Completed Operations aggregate; and \$1,000,000 general aggregate applicable to claims other than Products-Completed Operations. To the extent that Subcontractor's CGL insurance is subject to aggregate limits, the policy shall be endorsed so as to apply such aggregate limits separately to each Project with an ISO Endorsement CG 25 03 or equivalent.

Coverage afforded under Subcontractor's CGL and any Commercial Umbrella insurance shall be provided on an occurrence basis and shall be subject to the terms of the Insurance Services Office ("ISO") Commercial General Liability Coverage Form CG 0001, or an equivalent form providing coverage at least as broad as the ISO form specified. There shall be no limitations or exclusions of coverage beyond those contained in the standard coverage form and coverage shall include liability arising from Premises/Operations, Elevators, Broad-Form Property Damage, Independent Contractors, Contractual Liability, Products-Completed Operations including Construction Defect, Contractual Liability or Personal Injury and Advertising Injury.

Subcontractor's CGL coverage shall include an endorsement or other policy provision providing for a modified definition of occurrence establishing faulty workmanship as an occurrence; this includes but is not limited to Work done in the States of Delaware, Illinois, Iowa, Kentucky, Montana, New Jersey, North Carolina, Ohio, Oklahoma, Pennsylvania, West Virginia, and the District of Columbia.

If Subcontractor's Scope of Work requires the use of a crane, rigging operations, hoisting, or coverage related to the movement of others' property in connection with this Subcontract, Subcontractor shall have the "care, custody, and control" exclusion deleted from its General Liability policy. In the event such exclusion is not deleted, Subcontractor shall purchase and maintain in effect Rigger's Liability coverage at least equal to the highest value of property to be hoisted or moved.

All coverages shall be maintained in force for a period of three (3) years after Substantial Completion of the Project or for such period of time as is described in the Contract Documents ("Products-Completed Operations Period"). All terms and conditions of such coverage shall be maintained during this Products-Completed Operations Period, including the required coverage limits and the requirement to provide PEPPER and Owner with coverage as an Additional Insured for Products-Completed Operations. XCU and Work From Height Exclusions must be deleted when applicable to operations performed by the Subcontractor. XCU coverage must be identified as being included on the Certificate of Insurance.

COMMERCIAL UMBRELLA LIABILITY ("Umbrella Liability") shall be maintained by Subcontractor, providing the same coverage and with the same Additional Insureds as the primary policy in the amount of \$5,000,000 for Major Trade Subcontractors and \$1,000,000 for all other Subcontractors. All terms and conditions of such coverage shall be maintained during the three (3) year Project-Completed Operations Period, including the required coverage limits and the requirement to provide PEPPER and Owner with coverage as an Additional Insured for Products- Completed Operations. Umbrella Liability insurance required under this Subcontract shall follow the form of the Commercial General Liability insurance, Business/Commercial Automobile insurance, and Employers' Liability insurance as required in the Subcontract. The Umbrella Liability policy must be identified as 'follow form' on the Certificate of Insurance. To the extent that Subcontractor's Umbrella Liability insurance is subject to aggregate limits, policies shall be endorsed so as to apply such aggregate limits separately to each Project.

When providing a Blanket Certificate of Insurance, the following wording must be included: "All Work performed by Subcontractor Company Name] for all Pepper Construction Company of Indiana, LLC jobsites. Additional Insureds: Pepper Construction Company of Indiana, LLC and all others identified at Exhibit C - Non-CCIP of the Subcontract Agreement."

BUSINESS/COMMERCIAL AUTOMOBILE LIABILITY on an accident basis covering all Owned, Leased, Non-Owned and Hired Vehicles providing limits of liability for Bodily Injury and Property Damage of \$1,000,000 each occurrence, including its own employees.

The waiver of subrogation, as required in Article P, below, shall be in favor of Indemnitees and Additional Insureds and shall be affirmed on the policy by ISO Endorsement CA 04 44 03 10 or equivalent.

When applicable, the Business/Commercial Automobile Liability policy shall include **MCS-90 Endorsement** in compliance with the Federal Motor Carrier Safety Administration ("FMCSA").

If Subcontractor's Work involves the transport of pollutants, its Business/Commercial Automobile Liability policy shall be endorsed with Pollution Liability – Broadened Pollution for Covered Autos ISO CA 99 48 10 01 or equivalent.

F. CONTRACTOR'S POLLUTION LIABILITY insurance shall be provided by Subcontractor with minimum limits of \$1,000,000 per occurrence and \$1,000,000 per aggregate and shall apply to bodily injury, property damage or other losses due to a pollution incident or event arising from Subcontractor's activities and shall apply for at least the following types of Subcontractors: building enclosure systems, drywall/insulation, MEP (including but not limited to HVAC, plumbing, sprinkler), and excavating. Further, such Pollution Liability policy shall include coverage for microbial matter, silica, mold, bacteria, and fungi. The policy must include the parties listed in this Exhibit C – Non-CCIP Insurance Requirements as Additional Insureds on a primary and non-contributory basis. Occurrence or claims-made coverage is acceptable. Occurrence-based coverage is to be maintained for five (5) years after completion. Claims-made coverage is to have a retroactive date prior to the date the Subcontractor commences contracting services on the Project and shall include an Extended Reporting Period of three (3) years. Additional Insured coverage under the Contractor's Pollution Liability shall apply to both ongoing and completed operations.

Subcontractor's Pollution Liability policy shall include coverage for actual or alleged on-site and off-site bodily injury and loss of damage to, or loss of use of property, directly or indirectly arising out of the discharge, dispersal, release or escape of smoke, vapors, soot, fumes, acids, alkalis, toxic chemicals, liquids or gas, waste materials or other irritants, contaminants or pollutants into or upon the land, the atmosphere or any water course or body of water, whether it be gradual or sudden and accidental.

Subcontractor and its lower tiers shall provide prompt notice to PEPPER of any claim asserted, the entry of any settlement, or rendering of any judgment which may be covered by this Pollution Liability policy with a total reserve valued at twenty-five percent (25%) of available policy limits of the Pollution Liability policy. Coverage shall not be limited to the dollar amount of the Subcontract Price, including all modifications.

G. CONTRACTOR'S PROFESSIONAL LIABILTY INSURANCE ("Design Liability") coverage applies to acts, errors, or omissions arising from Subcontractor's professional services. If Subcontractor provides any architectural or professional engineering service, by its employees or through others, (regardless whether such service does not result in stamped or sealed submissions) including any surveying, soils analysis, approval of materials, equipment or design, connections, or sizing of members for any earth retention, shoring, dewatering, mechanical, electrical, plumbing, fire protection, windows, wall systems, structural walls, precast, elevators, roofing, drainage or communications systems, the Subcontractor shall furnish PEPPER with an appropriate certificate, including any endorsements, directly relating to the Project which shall remain in effect for a period of five (5) years after the date of final completion identifying the Subcontractor's professional liability insurance coverage and stipulating amounts of coverage at not less than \$2,000,000 with Subcontractor's deductible not to exceed \$100,000 insuring Subcontractor's proper performance of its Design Services. The Professional Liability policy shall be maintained without interruption for no less than five (5) years after the date of final payment to Subcontractor. If the insurance policy is written on a "claims-made" form, the policy must include a three (3) year "Extended Reporting Period" endorsement (coverage option). The "Extended Report Period" coverage shall commence to the degree that continuous Professional Liability coverage has not been kept in force from the inception of the contracted Project and three (3) years thereafter. Subcontractor agrees that coverage thereunder will not be cancelled or not renewed until at least thirty (30) days' prior written notice has been given to PEPPER.

H. AVIATION INSURANCE.

- 1. If either of the following aviation options (H2 or H3, below) are applicable for this Project, Subcontractor shall request in writing and obtain PEPPER's written approval for proposed aviation events. With such request, Subcontractor shall include a detailed description of the proposed event, identifying specific dates, times, and proof of pilot licensing, as described below. If approved, Subcontractor shall provide evidence of required liability coverage, as identified below in H2 or H3, as applicable.

 To the extent that **Subcontractor** shall provide aviation services, it is required to:
 - a. provide prior written notice to PEPPER that Subcontractor shall provide such aviation services ("Sub Notice");
 - b. provide such Sub Notice to PEPPER at least ten (10) days prior to the scheduled flight;
 - c. obtain approval for aviation events and provide written evidence of the Subcontractor's required insurance coverage, as identified below at H2 or H3, as applicable, including Owner, PEPPER, and others per the Owner Agreement as an **Additional Insured** on a primary and non-contributory basis for bodily injury or property damage with respect to the ownership, maintenance, or use of the aircraft and provide a Waiver of Subrogation in favor of the parties as set forth in Article J, below;
 - d. provide to PEPPER proof of Subcontractor's FAA pilot license, with Commercial Helicopter Rating, or FAA 107 Commercial UAS License, as applicable;
 - e. provide written evidence of Non-Owned Aviation liability coverage to the same extent as required by H2 or H3; and f. advise PEPPER's Project Manager and Corporate Risk Management of the financial risk exposures involved at least ten (10) days prior to the scheduled flight.

To the extent that Subcontractor's lower-tier subcontractor shall provide aviation services, Subcontractor is required to:

- g. provide prior written notice to PEPPER that a Sub-Subcontractor shall provide such aviation services ("Sub-Sub Notice");
- h. provide such Sub-Sub Notice to PEPPER at least ten (10) days prior to the scheduled flight:
- i. notify Sub-Subcontractor, in writing, that all terms of this Article H are applicable to Sub-Subcontractor;
- obtain approval for aviation events and provide written evidence of the Sub-Subcontractor's required insurance coverage, as identified below at H2 or H3, as applicable, including Owner, PEPPER, and others per the Owner Agreement as **Additional Insureds** on a primary and non-contributory basis for bodily injury or property damage with respect to the ownership, maintenance, or use of the aircraft and provide a Waiver of Subrogation in favor of the parties as set forth in Article J, below;
- k. provide to PEPPER proof of Sub-Subcontractor's FAA pilot license, with Commercial Helicopter Rating, or FAA 107 Commercial UAS License, as applicable;

- provide written evidence of its own <u>and</u> Sub-Subcontractor's Non-Owned Aviation liability coverage to the same extent as required by H2 or H3; and
- m. advise PEPPER's Project Manager and Director of Corporate Risk Management of the financial risk exposures involved at least ten (10) days prior to the scheduled flight.
- 2. Commercial Aviation (Manned Fixed and Rotor Wing Aircraft) Liability Insurance Coverage: Should Subcontractor's or Sub-Subcontractor's Work include the approved use of any owned, leased, chartered, or hired aircraft of any type on the Project, minimum limits in an amount not less than \$10,000,000 per occurrence, including Passenger Liability, shall apply. Cargo/Sling coverage with limits of \$250,000 per load shall apply. PEPPER reserves the right to determine and require higher limits of liability based on jobsite exposure.
- Commercial Aviation Liability (Unmanned Aircraft System or Aerial Drones ("UAS")) Insurance Coverage: Should Subcontractor's or Sub-Subcontractor's Work include the approved use of any owned, leased, borrowed, or hired UAS on the Project, minimum limits of liability of \$2,000,000 each occurrence shall apply.
- 4. Coverage in Sections H2 and H3, above, shall include:
 - a. Bodily Injury, Property Damage, Contractual Liability, and Hired and Non-Owned Aircraft Liability. Coverage under this policy shall also be extended to the authorized pilot in command of the aircraft when performing on behalf of the Named Insureds. NOTE: Approved usage of all drones (not to exceed 40 pounds in total unit weight) shall be strictly limited to aerial photography and survey work; and
 - b. any aircraft, equipment, or property used in the aviation event shall:
 - i. be specifically scheduled on the aircraft liability insurance policy; and
 - carry hull and physical damage coverage for the replacement cost value of the aircraft.
- 5. With regard to both H2 and H3, above, the Subcontractor and any Sub-Subcontractor shall agree that:
 - a. if the pilot for such aviation event has not previously flown on a PEPPER project, and has neither been interviewed nor approved by PEPPER to fly, PEPPER and the Subcontractor (and Sub-Subcontractor, if involved) shall timely arrange for the pilot to participate in an interview with a PEPPER drone pilot prior to the first scheduled flight, and the Subcontractor, Sub-Subcontractor and pilot shall all fully cooperate; and
 - b. PEPPER reserves the right to decline the drone flight request based on the results of the interview conducted by PEPPER; such decision to decline the flight request shall be in PEPPER's sole discretion and may be based on factors including, but not limited to, the pilot's demonstrated incompetence, lack of experience, or failure to meet PEPPER's standards and requirements.
- I. NETWORK SECURITY AND PRIVACY PROTECTION LIABILITY coverage ("Cyber Liability") is required of all Subcontractors and subsubcontractors as determined by PEPPER, in circumstances where physical or wireless connection will be made to any PEPPER network (including a Guest internet connection) or Owner's Network at the site of the Project. Such networks include, without limitation, Building Automation, Computer Maintenance Management, HVAC, MEP, Building Security/Access Controls, Fire Protections/Alarm, and Telecommunication/Data Management systems. The Subcontractor shall provide evidence of Cyber Liability with limits of not less than \$2,000,000 per occurrence and \$2,000,000 annual aggregate. Coverage shall be sufficiently broad to respond to the cyber and network liability exposure resulting from or arising out of Subcontractor's performance of its duties and obligations under this Subcontract Agreement, and shall provide coverage for loss occurrences which include, but are not limited to, claims involving invasion of privacy violations, information theft, damage to or destruction of electronic information, release of private information, alteration of electronic information, extortion, network security, installation of malware/ransomware, loss of network use, and infringement of intellectual property (including infringement of copyright, trademark, and trade dress). The policy shall provide coverage sufficient to defend and indemnify the Additional Insureds and shall also provide coverage for breach response costs, regulatory fines and penalties, and credit monitoring expenses.
- J. ADDITIONAL INSURED: To the fullest extent of coverage allowed under applicable law, the following entities shall be included as Additional Insureds under the General Liability, Business/Commercial Automobile Liability, Umbrella/Excess Liability, and Pollution Liability (where applicable). The Subcontractor's CGL and Umbrella Liability policies must include the parties listed in Exhibit C Non-CCIP as Additional Insureds, on an ISO Additional Insured Endorsement (CG 2010 and CG 2037, Edition #07 04 or older, or equivalent) covering Ongoing and Completed Operations. Subcontractor's insurance will be primary and non-contributory to any insurance carried by any of the Additional Insured. Subcontractor's required insurance shall apply separately to each Additional Insured. Any other insurance or self-insurance maintained by PEPPER or Owner shall be excess of, and non-contributory with, the coverage afforded by Subcontractor's CGL and Umbrella Liability insurance.
- K. A Certificate of Insurance on an ACORD form, and the Additional Insured Endorsement (including a waiver of subrogation), must be delivered to the PEPPER Project Manager of record and PROVIDED TO THE PEPPER JOBSITE FIELD SUPERINTENDENT PRIOR TO THE COMMENCEMENT OF ANY WORK. The Subcontractor shall notify PEPPER by email within thirty (30) days if such Certificate is to be altered, cancelled or allowed to expire.
- L. Equivalent insurance coverage must be obtained from each sub-subcontractor or supplier, if any, before permitting them on the Project site. In the event Subcontractor fails to obtain such coverage from its lower tiers, protection of such parties shall be included within Subcontractor's insurance policies.
- M. PEPPER may furnish, erect or provide equipment, appurtenances and devices, motorized or otherwise, for its use to complete its Contract with the Owner. Subcontractor may use such items upon PEPPER's prior written authorization. In the event of any such Subcontractor use, the Subcontractor agrees to insure against claims of injury or damage caused by such items while in Subcontractor's care, custody or control by naming PEPPER as an insured party. Liability limits shall be the same as in Section C, above. Physical Damage insurance against damage to the items themselves shall be on a "Replacement Cost" basis.
- N. Subcontractor will be responsible for any deductible or self-insured retention under its insurance policies.

- O. It is understood and agreed that PEPPER shall withhold payments to the Subcontractor until a properly executed Certificate of Insurance and endorsement providing insurance as required herein, accompanied by a signed Subcontract Agreement, are received by PEPPER. The failure of PEPPER to withhold such payments or obtain the required Certificate or endorsement shall not be deemed to be a waiver of Subcontractor's obligation to provide the insurance required under the Subcontract Agreement.
- P. Subcontractor hereby waives any rights of subrogation against PEPPER, the Owner, the Architect, and any other **Additional Insureds** as required by this Subcontract, the Owner Agreement or the Invitation to Bid. If insurance policies specified within this **Exhibit C Non-CCIP** require an endorsement to provide for continued coverage where there is a waiver of subrogation, the Subcontractor will cause them to be so endorsed with an **ISO Endorsement CG20 01** or equivalent. This waiver shall apply to all first-party Property, Equipment, Vehicle, Business/Commercial Automobile Liability and Workers' Compensation claims (unless prohibited under applicable state statutes), and all third-party liability claims.
- Q. Provided the minimum required primary limits under the Commercial General Liability are provided as stated in Section C., above, CGL, Business/Commercial Auto Liability, and Employer's Liability policies can be obtained by any combination of primary and excess coverage.
- R. Any self-insured retention on any of the coverages required above must be clearly disclosed on the Subcontractor's Certificate of Insurance and are subject to PEPPER's approval. PEPPER reserves the right to require a proper form of collateral for any self-insured retention.
- S. Upon PEPPER's written request, Subcontractor shall provide to PEPPER copies of all of its insurance policies, including all policy endorsements, as required herein.
- T. Failure of Subcontractor to comply with all insurance requirements set forth in this **Exhibit C** will be deemed a material breach of Subcontractor's obligations under the Subcontract Agreement.
- U. Subcontractor-provided policy terms, limits, and coverages shall equal or exceed any requirements specified in the Contract Documents or required by law, and in no event shall they be less than required herein. If Subcontractor maintains insurance policies with limits greater or coverage broader than the limits and coverage stated above, Subcontractor agrees that such higher limits and broader coverage shall be deemed to be the minimum limits and coverage required under this Subcontract. Subcontractor further agrees that the higher limits and broader coverage shall be available to the Additional Insureds on a primary and non-contributory basis.
- V. Certificates of Insurance shall show all limits of liability in U.S. dollars.

SAMPLE CERTIFICATE OF LIABILITY INSURANCE





CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 10/26/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(les) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:	CONTACT NAME:					
Insurance Company information	PHONE (A/C, No. Ext. E-MAIL ADDRESS:	FAX (A/C, No):					
	INSURER(S) AFF	ORDING COVERAGE NAIC #					
	INSURER A: <select></select>						
INSURED	INSURER C:						
Company Name and Address	INSURER C :						
	INSURER €:						
	INSURER E :						
	INSURER F :						

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

ISR TR	TYPE OF INSURANCE	ADDL	SUBR	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP	LIMIT	S
	CLAIMS-MADE X OCCUR NO XCU EXCLUSION						EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person)	\$ 1000000-2MM \$ MAJOR TRADE \$
A	NO AGO EXCEGGION	х	x				PERSONAL & ADV INJURY	\$
	GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO- JECT LOC						PRODUCTS - COMP/OP AGG	\$
-	OTHER: AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	\$ 1000000
	ANY AUTO OWNED AUTOS ONLY AUTOS	x	x				BODILY INJURY (Per person) BODILY INJURY (Per accident)	\$
	HIRED NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	\$
	X UMBRELLALIAB OCCUR						EACH OCCURRENCE	\$ 1000000-5MM
	EXCESS LIAB CLAIMS-MADE	x	x				AGGREGATE	\$ MAJOR TRAD
	DED RETENTION\$						PER OTH-	\$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	N/A		In description of operations note: Micr	ohal matter silica o	rold bacteria	PER OTH- STATUTE ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE	s 1000000
	If yes, describe under DESCRIPTION OF OPERATIONS below			and fungi coverage is included OR pro			E.L. DISEASE - POLICY LIMIT	\$
	POLLUTION LIABILITY + PROFESSIONAL LIABILITY +	X	X	Required for Consulting Services Ag Rider Pepper Construction of Indian	a LLC must be inclu	ded as an additior	al insured	1000000 2000000
	CYBER LIABILITY ====================================	_		 Required if subcontractor or subset 	equent tiers are c	onnecting to Pe	pper or Owner's networks	2000000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

If submitting "Job Specific" COI include: RE: Project Number, Project Name, List all included/additional insureds from Exhibit C. For "Blanket" COI include: RE: All work performed by (insert subcontractor name) for all Pepper Construction Company of Indiana, LLC job sites. Additional insureds include Pepper Construction of Indiana, LLC and all others identified on written contract/agreement. NOTE: Ohio subcontractors must submit current Bureau of Worker's Comp Certificate. Aviation insurance, where applicable, must be reviewed by Pepper's legal department on a case by case basis. Completed and ongoing operations endorsements must be submitted. Waivers of subrogation forms for all relevant policies must be submitted. Riggers Liability, where applicable, must be included. Refer to Consulting Services Agreement/PO/Subcontract Exhibit C for detailed insurance requirements.

included. Refer to Consulting Services Agreement/PO/Subcontract Exhibit C for detailed insurance requirements. CERTIFICATE HOLDER CANCELLATION Pepper Construction Company Of Indiana SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

Indianapolis, IN 46202

AUTHORIZED REPRESENTATIVE

BROKER AGENT NAME/SIGNATURE NOT

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Endorsement dates/versions can be: 10/01, 07/04 or 04/13

COMMERCIAL GENERAL LIABILITY
CG 20 10 10 01

POLICY NUMBER: POLICY NUMBER MUST BE ENTERED HERE AND MUST MATCH THE POLICY NUMBER ON THE CERTIFICATE.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – SCHEDULED PERSON OR ORGANIZATION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name of Person or Organization:

ALL WORK PERFORMED BY (SUBCONTRACTOR'S NAME) FOR PEPPER CONSTRUCTION COMPANY OF INDIANA, LLC ON ALL PEPPER CONSTRUCTION COMPANY OF INDIANA, LLC JOBSITES.

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement.)

- A. Section II Who Is An Insured is amended to include as an insured the person or organization shown in the Schedule, but only with respect to Iability arising cut of your ongoing operations performed for that insured.
- **B.** With respect to the insurance afforded to these additional insureds, the following exclusion is added:
 - 2. Exclusions

This insurance does not apply to "bodily injury" or "property damage" occurring after:

- (1) All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the site of the covered operations has been completed; or
- (2) That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

Endorsement dates/versions can be: 10/01, 07/04 or 04/13

COMMERCIAL GENERAL LIABILITY
CG 20 37 10 01

POLICY NUMBER: POLICY NUMBER MUST BE ENTERED
HERE AND MUST MATCH THE POLICY
NUMBER ON THE CERTIFICATE.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – COMPLETED OPERATIONS

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name of Person or Organization: ALL WORK PERFORMED	BY (SUBCONTRACTOR'S NAME) FOR
PEPPER CONSTRUCTION	N COMPANY OF INDIANA, LLC ON ALL PEPPER NY OF INDIANA, LLC JOBSITES.
Location And Description of Comp	leted Operations:
All Pepper Construction	Company of Indiana, LLC jobsites.
Additional Premium:	
Additional Premium:	

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement.)

Section II – Who Is An Insured is amended to include as an insured the person or organization shown in the Schedule, but only with respect to liability arising out of "your work" at the location designated and described in the schedule of this endorsement performed for that insured and included in the "products-completed operations hazard".

Revised 9.5.24 MR

PEPPER PREQUALIFICATION INSTRUCTIONS





Prequalification Instructions: New Trade Partner Applicant

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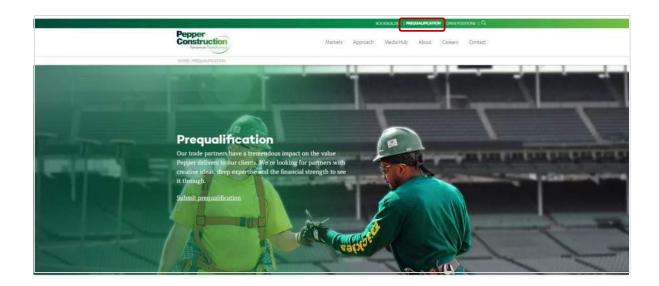
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1. GENERAL INSTRUCTIONS

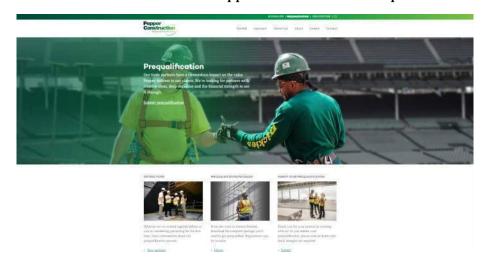
The purpose of this document is to give general instructions on how to apply for prequalification for new trade partners (New Applicants) at Pepper Construction. To apply for prequalification, use the Prequalification Self-Service Portal and fill out the application. Upon submitting the application, you will not be able to go back to the application. If there is any information missing, Pepper's prequalification specialist will contact you via email. Any questions about the process or steps should be directed to prequal@pepperconstruction.com. This application works in any browser- Google Chrome, Microsoft Edge or Firefox.

2. HOW TO NAVIGATE TO THE SELF-SERVICE PORTAL

1. Go to Pepper's website (<u>www.pepperconstruction.com</u>), and click on Prequalification at the top of the page.

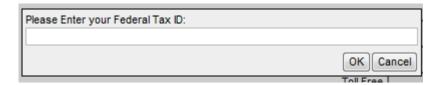


2. You are now connected to the Pepper's Trade Partner Prequalification Self Service page.



3. SELF-SERVICE PORTAL SUBCONTRACTOR PREQUALIFICATION INSTRUCTIONS

Enter your Federal Tax ID (FEIN#), using XX-XXXXXXX format. It is important that this number is entered accurately, so please double check prior to clicking OK



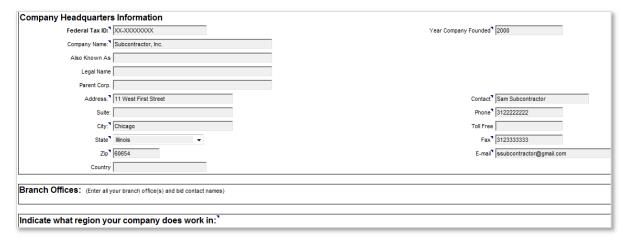
Enter a password and be sure to write it down and keep it in a safe place. If the application will not be completed all at once you will need this password to complete the application at a later time. Note that the password is case sensitive.



If you saved your application initially and forgot your password when trying to login again, please contact prequal@pepperconstruction.com. The application consists of 6 pages. Page 7 summarizes the information entered and allows you to update it or submit.

Page 1 of the application

Enter all the required fields that are indicated by a black triangle.



- Complete Company Headquarters Information section.
- If your company has multiple branch offices, please click [Add Row] to complete information for each branch office.
- Check the box next to all Pepper offices that you plan on working with in the future.
- Click [Next] to move on to the next page.

Page 2 of the application

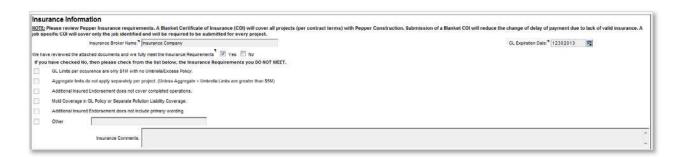


Enter all required general information (indicated by the black triangle).

- 1. Complete the *License Information* section. Click on **[Add Row]** for each additional license.
- 2. If your firm is signatory to any unions, check the box next to *Yes* and complete the *Union Affiliations* section. If you have multiple Union Affiliations click on **[Add Row]** to select additional unions. Note that you can type in the Union Affiliations field to add a new record if your union is not listed. If your firm is not signatory to any unions, check the box next to *No* and move on to the next section.
- 3. In the *Trade Information* section, select from the drop down box all trades that apply to your firm. To select additional trades click on **[Add Row]**.
- 4. If your firm has minority business status, check the appropriate box(es) and then select the certifying agency. Click **[Add Row]** to select additional certifying agencies. Note that you can type in the *Certifying Agency* field to add a new record if your agency is not listed.
- 5. Click [Next] to move on to the next page.

The application may be saved by clicking the **[Save Draft]** option at the bottom of the page. The **[Save Draft]** option allows the applicant to save and finish the application at a later time using the FEIN# and password to log back into the system. Click **[Next]** button to proceed with the application.

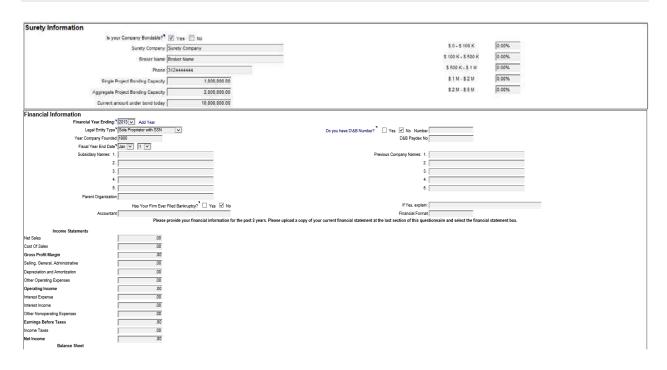
Page 3 of the application



Safety Information (OSHA Form	300A Must Be Attach	ea)					
Is your Company part of an OSHA partnership?							
Does your company conduct weekly, documented s	safety audits?				✓ Yes □ No		
Do your trades people begin each day with safety r	neeting?"				✓ Yes □ No		
Does your company have a substance abuse policy	?"				✓ Yes □ No		
A copy of your companys safety manual, hazard co	mmunication program and mater	ial safety data sheets are	required to be uploaded as	attachments in order to process your app	olication."		
Year Citations	EMR*	RIR*	LTIR*	FWH*	DART"	Fatalities 7	
2013	0	0	0	0	0	0	
2012 0	0	0	0	0	0	0	
2011 0	0	0	0	0	0	0	
							Add Row
Citations - Please enter number of OSHA Citation EMR - Experience Modification Rate Your Work RIR - Recordable incidents - Add columns 1 & Ji. Tir Lost Time incidents - Column H from the FHW - Total hours worked by all employees - loc DART - DART Cases. Total of columns H and If Fatalities - Column G from OSHA 300A form	ers Comp carrier should have this rom the OSHA 300A form. OSHA 300A form ated on right hand side of OSHA	information					

- Before answering any questions, please review Pepper's Safety Regulations and Insurance Requirements.
- 2. Complete the *Insurance Information* section.
 - a. Note insurance is job specific; be sure you meet all the requirements per your contract.
- 3. Complete the Safety Information section.
- 4. You will need to attach your OSHA Form 300A Summary of Work-Related Injuries and Illnesses filed with the US Department of Labor for the past 3 calendar years on the last page of this application.
- 5. Use the following link to search for your company's OSHA citations for the last 3 years. http://www.osha.gov/pls/imis/establishment.html
- 6. Click the **[Next]** button to proceed with the application or click the **[Save Draft]** button to save the application.

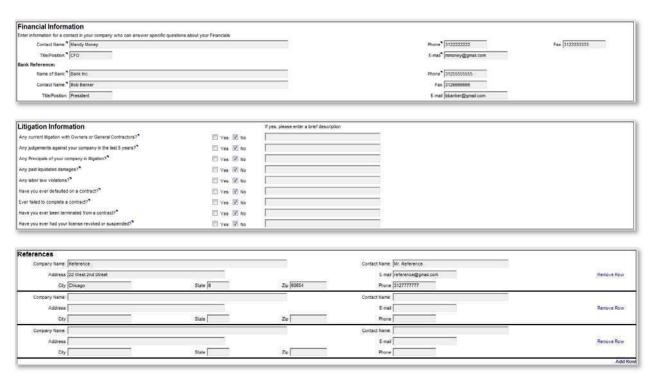
Page 4 of the application



Cosh	0									
Marketable Securities	0									
Accounts Receivable	0									
Costs and Profit in Excess of Billings (Underbilled)	0									
Inventory	0									
Other Long-Term Assets	0									
Total Current Assets	0									
Gross Fixed Assets	0									
Less Accumulated Depreciation	0									
Net Fixed Assets	0									
Other Long-Term Assets	0									
Total Assets	0									
Accounts Payable & Accruals	0									
Billings in Excess of Costs & Profit (Overbilled)	0									
Current Interest Breamy Debt	0									
Total Current Liabilities	0									
Long Term Debt	0									
Long Term Deferred Taxes	0									
Other Long Term Liabilities	0									
Total Liabilities	0									
Preferred Stock	0									
Common Stock & Capital Surplus	0									
Retained Earnings	0									
Total Equity	0									
Total Liabilites & Equity	0									
Cost Of Goods Sold	0									
Amount Line Of Credit*	1,000,000.00									
Against Line Of Credit*	500,000.00		Please fill ou	and attach W-9 form if	you have not previous	sly worked for Peoper	Construction, PLEAS	ATTACH LAST TWO	(2) YEARS OF FINANC	TAL STATEMENTS (Including
Highest Dollar Project Ever Awarded	50,000,000.00			Balance :	Sheets, Income Stater	ments and Opinion Let	tter from Accountant)	on the last section o	of this questionnaire.	
Average Project Size*	5,000,000 00									
Company Officers:										
Company Officer Name		Title		Action						
Subcontractor		President	14	Remove Row						
				Add Row						

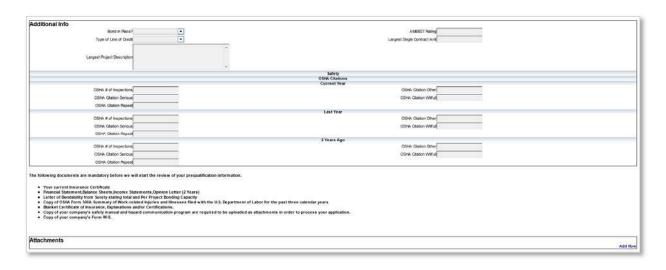
- 1. Complete the *Surety Information* section. If you check the box next to Yes, all other fields must be completed. If you check the box next to No, move on to the next section.
 - a. Note that if you check the box next to Yes you will need to attach your Letter of Bondability from Surety stating total and per project bonding capacity.
- 2. Complete the *Financial Information* section.
 - a. Note that you will need to attach a copy of your financial statements for the last 2 years at the last section of the questionnaire and select the *Financial Statement* box to ensure their confidentiality. This should include your balance sheets, income statements, and opinion letter (accountant's summary).
 - b. *Accountant* refers to the name of the person or firm who prepares your financial statements.
 - c. *Financial Format* refers to whether your financial statements are audited, reviewed, or compiled.
 - d. Financial information must be completed for your most recent set of financial statements.
- 3. You will need to fill out and attach a W-9 regardless of whether you have worked with Pepper in the past (to find a sample, please refer to section 4 of this document).
- 4. Complete the *Company Officers* section.
- 5. Click the **[Next]** button to proceed with the application or click the **[Save Draft]** button to save the application.

Page 5 of the application



- 1. Complete the *Financial Information* section.
- 2. Complete the Litigation Information section.
- 3. Complete the *References* section. If you would like to provide more than 3 references you can click on **[Add Row]**.
- 4. Click the **[Next]** button to proceed with the application or click the **[Save Draft]** button to save the application.

Page 6 of the application



- 1. Complete the *Additional Info* Section.
 - a. *Bond in Place?* If your company is signatory to a union, please select Y or N as to whether you have a bond in place securing your payment of wages and fund contributions as required by your labor union agreement. If your company is not signatory to a union, you can skip this question.
 - b. *Type of Line of Credit*. Select the appropriate response from the dropdown list.
 - c. Largest Project Description. Enter a description of your largest project.
 - d. AMBEST Rating. Enter the AMBEST Rating of your bonding company.
 - e. Largest Single Contract Amt. Enter the dollar amount of your largest contract.
- 2. ATTACHMENTS-Click **[Add Row]** to add attachments. Enter a description for each attachment. Once you upload the file will disappear but the file name should appear on your screen. Remember to click the box next to *Financial Attachment* when attaching your financial statements. This will ensure their confidentiality. The following items should be attached:
 - a. Current Insurance Certificate
 - b. Complete Financial Statements including Balance Sheet, Income Statement, and Opinion Letters for the last 2 years. **NOTE: Financial Statements are uploaded to a secure site to which only Pepper's Prequalification administrator has access.**
 - c. Letter of Bondability from surety stating total and per project bonding capacity
 - d. OSHA Form 300A Summary of work-related injuries and illnesses for the last **3** calendar years.
 - e. Blanket Certificate of Insurance, Expirations and/or Certifications
 - f. Copy of your company's Safety Manual and Hazard Communication Program
 - g. Copy of your company's Form W-9.
- 3. Click the **[Next]** button to proceed with the application.

Page 7 of the application

- 1. A summary of all information entered will be provided. Please review this for accuracy. By clicking the **[Previous]** button shown either at the top or bottom of the page allows the user to go back to the desired section and update the previously entered information.
- 2. PLEASE PRINT A HARD COPY OF THE APPLICATION TO RETAIN FOR YOUR RECORDS.

When complete, click the **[Submit]** button to submit to Pepper for processing. Once submitted, you can no longer access the form.



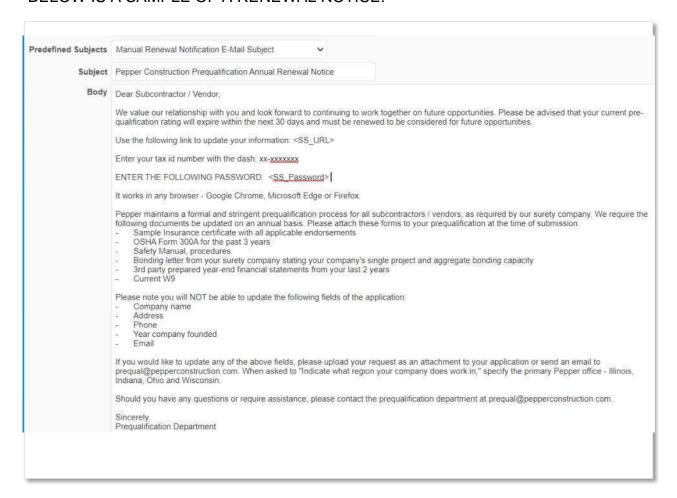
Prequalification Instructions: Existing Trade Partners

1. GENERAL INSTRUCTIONS

The purpose of this document is to give general instructions on how to renew the trade partner prequalification compliance for Existing Subcontractors whose compliance is set to expire. **This application works in any browser- Google Chrome, Microsoft Edge or Firefox.** If you have any questions about how to fill out the application, please refer to the prequalification instructions for <u>new applicants</u>.

2. TRADE PARTNER PREQUALIFICATION PROCESS OVERVIEW

An existing trade partner, whose compliance is set to expire, should receive an expiration notice from Pepper (email), requesting to renew the compliance. The automatic expiration notification is sent 30 days prior to the compliance expiration date. Upon receiving this email, trade partners should follow the link provided in the email to the prequalification portal, enter your credentials and follow the instructions. Basic information previously submitted will already be filled in. You will also be prompted to submit additional documentation in order to renew the compliance. Should you have any questions, please email prequal@pepperconstruction.com
BELOW IS A SAMPLE OF A RENEWAL NOTICE:



TRADE PARTNER SAFETY HANDBOOK





TRADE PARTNER SAFETY HANDBOOK

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1. INTRODUCTION - This handbook has been provided to familiarize all TRADE PARTNERS and their SUPERVISORS with the Pepper Construction Company of Indiana (PEPPER CONSTRUCTION) safety rules, procedures, and guidelines for preventing jobsite accidents and injuries. It is the responsibility of the TRADE PARTNER to provide their Project Managers and Site Supervisors with a copy of this document. TRADE PARTNER is the chosen lexicon for SUBCONTRACTOR. Also, be advised that an officer of your company has read this handbook and agreed with its terms and conditions. This commitment assures your compliance with the safety rules, procedures, and guidelines outlined in this handbook, as well as all applicable Federal, State and Local regulations. This document does not replace, modify, or supersede the rights and obligations of the parties as set forth in the subcontract. The Trade Partner is ultimately responsible for the safety of its personnel and third parties that come in contact with the Trade Partner's operations. This handbook is not intended to replace the Trade Partner's policies or to make Pepper responsible for the subs' operations.

Items that are **bolded** may exceed OSHA minimum requirements. If OWNER safety requirements apply, the stricter requirement will be followed.

- 2. STATUTORY REQUIREMENTS Each TRADE PARTNER is expected to be aware of and comply with Federal, State, and Local safety regulations. In addition, each TRADE PARTNER has agreed to hold the Owner and PEPPER CONSTRUCTION harmless for all claims, damages (including legal fees), and/or penalties incurred because of TRADE PARTNER's failure to comply with such regulations.
- **3. INSURANCE REQUIREMENTS** TRADE PARTNERS may not start their work until a valid and acceptable certificate of insurance is on file with PEPPER CONSTRUCTION. This includes a copy being provided to the PEPPER CONSTRUCTION Site Superintendent.
- **4. SAFETY PRE-QUALIFICATION** Each TRADE PARTNER that will have direct employees on the jobsite must be Safety Prequalified by PEPPER CONSTRUCTION. The Safety Prequalification Information online application must be completed and submitted to PEPPER CONSTRUCTION prior to contract award.

5. SAFETY PLANNING & PROGRAMS

5.1. The TRADE PARTNER must submit a PEPPER CONSTRUCTION approved Project Specific Safety Plan. Templates are provided by PEPPER CONSTRUCTION. The completed safety plan must be submitted to PEPPER CONSTRUCTION for review and acceptance prior to the Safety Plan Review Meeting and the start of work. The plan shall be updated as site conditions warrant and reflect changes in safety procedures that are necessary to maintain a safe jobsite.

- 5.2. Safety Plan Review Meeting all TRADE PARTNERS are required to attend a Safety Plan Review Meeting that must take place before any work starts. The PEPPER CONSTRUCTION Superintendent will schedule the meeting. Required attendees include the TRADE PARTNER full time Site Superintendent/Foreman and the PEPPER CONSTRUCTION Superintendent. The TRADE PARTNER COMPETENT PERSON must be fully aware of this plan and the procedures necessary to eliminate any hazards.
- 5.3. The TRADE PARTNER is required to review the Project Specific Safety Plan with their tradespeople prior to beginning work.
- 6. COMPETENT PERSON REQUIREMENT The TRADE PARTNER must designate a Competent Person in writing. It is the competent person's responsibility to initiate and maintain an effective safety process at the jobsite. Each competent person shall have completed the 30-hour OSHA Construction Safety and Health Training course.
- 7. TRAINING Weekly toolbox and daily Task Hazard Analysis (Job Safety Analysis) meetings are required of all TRADE PARTNERS. Documentation of these meetings must be submitted to the PEPPER CONSTRUCTION site Superintendent weekly. Project meetings will include Safety as an agenda item and all TRADE PARTNER supervisors are required to attend.
- 8. SAFETY ORIENTATION TRADE PARTNERS are required to send trades people who are new to the project to the PEPPER CONSTRUCTION orientation before they begin work at the site. PEPPER CONSTRUCTION will conduct the orientation meetings.
- 9. INSPECTIONS TRADE PARTNERS are required to inspect daily the areas in which their employees are working and immediately report any unsatisfactory or unsafe conditions to the PEPPER CONSTRUCTION site Superintendent. Each TRADE PARTNER will perform, at a minimum, weekly documented inspections of their work. Documentation of these inspections must be submitted to the PEPPER CONSTRUCTION Site Superintendent weekly.
- **10. CONTRACTOR VIOLATIONS** If unsafe conditions, practices, or procedures are observed, the TRADE PARTNER supervisor will be requested to correct the situation. Failure to adequately correct the condition or refusal to comply or enforce the requirements referenced in this handbook may result in:
 - 10.1. Removal of involved employees from the jobsite;
 - 10.2. Removal of all TRADE PARTNER employees from the jobsite;
 - 10.3. Denial of future bid opportunities with PEPPER CONSTRUCTION.

- **11. EMPLOYEE VIOLATIONS** This procedure is established to provide for the discipline of employees who violate safety rules. Safety rules are written and enforced to provide for a safe and healthful place of employment.
 - 11.1. All TRADE PARTNER Superintendent's and Foremen are responsible for the enforcement of the safety and health program on PEPPER CONSTRUCTION projects. In order to accomplish this, they must ensure that each employee is properly instructed in the use of safety equipment and safe work practices. PEPPER CONSTRUCTION will monitor the safety performance of TRADE PARTNERS working on the jobsite.
 - 11.2. If violations of the statutory PEPPER CONSTRUCTION requirements and/or the Project Specific Safety Plan are observed, the responsible TRADE PARTNER must initiate the disciplinary policy with their employee. The response to a safety violation should be carefully evaluated based on the nature of the safety violation. It is imperative that the TRADE PARTNER Superintendent or Foreman warn employees when they violate a safety rule and remove any employee who refuses to comply with the safety rules from the PEPPER CONSTRUCTION project.
 - 11.3. When an employee is observed violating a safety rule, the tradesperson's employer, and/or PEPPER CONSTRUCTION shall implement the following steps:
 - 11.3.1. First offense written warning to employee (all written warnings shall be documented using the TRADE PARTNERS Employee Safety Violation Notice or letterhead);
 - 11.3.2. Second offense written warning to employee with a phone call and/or letter to TRADE PARTNER office within 24 hours of violation. Employees shall be prohibited from working on PEPPER CONSTRUCTION projects for 2 working days.
 - 11.3.3. Third offense within any twelve-month period is grounds for immediate removal from the project and prohibition of working on PEPPER CONSTRUCTION projects for one year.
 - 11.4. Serious Intentional Violations are defined as violations that may have potentially severe consequences, or place individual(s) in imminent danger. A serious intentional violation may result in immediate dismissal from the project and termination of the employees' ability to work on other PEPPER CONSTRUCTION projects. Examples of serious intentional violations include:

11.4.1. Smoking in non-designated areas;

- 11.4.2. Possession of alcohol, firearms, and/or illegal drugs;
- 11.4.3. Fighting or belligerent behavior;
- 11.4.4. Tampering with emergency equipment;
- 11.4.5. Working without a valid shutdown notification, hot work permit, or application of a Lockout/Tagout;
- 11.4.6. Working without proper fall protection, placing a person in imminent danger;
- 11.4.7. Entering excavations/trenches without appropriate sloping, shoring, or other protective measures, placing a person in imminent danger;
- 11.4.8. Entering areas designated and marked as "Do Not Enter", placing a person in imminent danger;
- 11.4.9. Operating equipment without valid licensing or training certification;
- 11.4.10. Not reporting work related injuries and/or damage to PEPPER CONSTRUCTION equipment or property;
- 11.4.11. Failure to report and/or correct recognized safety hazards;
- 11.4.12. Repeated or multiple safety violations of the same nature;
- 11.4.13. Other acts, which indicate a TRADE PARTNER employee's, disregard toward his/her safety, the safety of others, or neglect of proper care of PEPPER CONSTRUCTION property/equipment.
- 11.4.14. Falsify what transpired when reporting work place injuries or death.
- 11.5. TRADE PARTNER Superintendent or Foreman shall review with the employee the details of the safety violation including corrective actions and consequences.
- 11.6. Copies of the Safety Violation shall be forwarded to the PEPPER CONSTRUCTION Superintendent and Safety Director.
- 12. ACCIDENT REPORTING Each TRADE PARTNER will report immediately to the PEPPER CONSTRUCTION site Superintendent, any accident or injury involving Trade Partner employees or the employees of their second-tier Trade Partner(s), damage to property, public or private, general liability or injury to non-employees. Additionally, a copy of each accident report is to be provided to the PEPPER CONSTRUCTION site Superintendent within 24 hours. A written investigation report must be provided within 24 hours of the accident or injury.

- **13. MEDICAL FACILITIES** First Aid supplies are available in the PEPPER CONSTRUCTION site Superintendent's trailer or job office. Emergency telephone numbers are also posted at this location. The emergency numbers will include a nearby medical facility.
 - 13.1. By law, every TRADE PARTNER must provide a First Aid Kit in their job site office or gang box, provide at least one trained responder certified in First Aid/CPR, and administer care to injured workers.
 - 13.2. TRADE PARTNERS shall provide transportation from the job site to the specified doctor's office or clinic. The employer is responsible for transporting the injured worker to the designated medical facility.

14. BLOODBORNE PATHOGENS

- 14.1. Exposure Determination OSHA requires employers to perform an exposure determination in which employees may incur occupational exposure to blood or other potentially infectious materials. This exposure determination is made without regard to the use of personal protective equipment. (Employees are considered exposed even if they wear personal protective equipment). This exposure determination is required to list all job classifications in which the employees may be expected to incur such occupational exposure, regardless of frequency. The employer is also required to list job classifications in which some employees may have exposure if performing certain tasks or procedures.
- 14.2. Personal Protective Equipment All personal protective equipment used at this project, for protection of bloodborne pathogens, will be provided without cost to employees by their employer. Personal Protective Equipment (PPE) will be chosen based on the reasonable likelihood of any possible exposure to blood or other infectious materials.

14.3. Hepatitis B Vaccine

- 14.3.1. All employees who have been identified as having possible exposure to blood or other potentially infectious materials will be offered the Hepatitis B vaccine at no cost to the employee by their employer. The vaccine will be offered within 10 days of initial assignment involving potential exposure. Employees who decline the Hepatitis B vaccine must sign a waiver. Employees who initially decline the vaccine but who later wish to have it will be provided the vaccine at no cost.
- 14.3.2. Employees who perform first aid only on an emergency basis, he/she will be offered the Hepatitis B vaccine. In the event emergency first aid has been rendered, and responder has possible exposure to blood or other infectious

materials, he/she will be offered the Hepatitis B vaccine at no cost to the employee by their employer. If he/she declines the Hepatitis B vaccine, he/she will sign a waiver.

- 15. CONCRETE/MASONRY CORING & CUTTING If the TRADE PARTNER scope of work includes core drilling or sawing in concrete slabs and/or concrete/masonry walls, the TRADE PARTNER is required to use Ground Penetrating Radar or other suitable technology to define areas where it is safe to drill or cut in order to avoid damaging rebar, post-tension cables, electrical conduit or the like.
- **16. CONCRETE PUMP TRUCKS** The TRADE PARTNER responsible for that equipment on site is the "Controlling Entity" for that activity and must verify that ground conditions are stable and that outrigger bearing pressures can be safely met. The TRADE PARTNER responsible for that work must establish a safe travel path of equipment, outrigger locations and ensure that no hazards such as overhead or underground utilities or vaults or structures exist.
- 17. CONFINED SPACE ENTRY All employees must be protected from hazards associated with confined space entry. No employee shall be permitted to enter a confined space that has not first been monitored to insure sufficient oxygen levels exist, toxic gas levels are below OSHA Permissible Exposure Limits (PEL), and combustible gases are below the Lower Flammable Limits (LEL). All work with exposure to confined spaces must be competed in accordance with OSHA 1926 Subpart AA.
- **18. CONTRABAND & FIREARMS** The following items shall be considered contraband stolen property, firearms, weapons, explosives, and any other hazardous substances and are strictly prohibited on any PEPPER CONSTRUCTION jobsite. Persons or employees found to be using or in possession of, or concealing any of the above-unauthorized items will be permanently removed from the jobsite.
- 19. UTILITY AND CRITICAL SYSTEM SHUTDOWN Utility Shutdowns and Critical System Service must be scheduled 10 calendar days before commencement of the work or as specified by client/project team. This work may result in a curtailment of owner's services and operations must be accomplished at the owners required schedule. The PEPPER CONSTRUCTION Superintendent in conjunction with the owner Project Manager/Facilities representative shall coordinate all shutdown requests.

All utility or system connections, shut-off, or interruptions must be scheduled with PEPPER CONSTRUCTION before commencement of the work.

- 19.1. Valves and other shutdowns shall be located before work begins.
- 19.2. Contingency plans shall be developed in the event of critical system interruption.

19.3. All Critical Systems shall be identified before the start of demolition. Lines shall be painted or flagged to indicate their presence.

20. CRANES

- 20.1. All operators of mobile, boom truck, lattice boom, telescopic boom (Hydro) and tower cranes, shall maintain a valid certification card issued by the Operating Engineers Certification Program (OECP), the National Commission for the Certification of Crane Operators (NCCCO) or a company program reviewed by an outside auditor. The certification must be specific to the type of crane being operated. Certifications must be current and in good standing. Certifications must be available for verification by PEPPER CONSTRUCTION at any time while the operator is on site.
- 20.2. The TRADE PARTNER responsible for crane work on site must verify that ground conditions are stable and outrigger bearing pressures imposed can be safety met. The TRADE PARTNER responsible for that work must establish and plan a travel path for the equipment, determine outrigger locations and ensure that no hazards such as overhead or underground utilities or vaults or structure exist. The TRADE PARTNER must perform these inspections and notify PEPPER CONSTRUCTION prior to any lift or pick taking place.
- 20.3. Crane appurtenances that exceed 200' above the ground or within 20,000 feet of an airport shall be marked and lighted, unless an exemption is received from the FAA. Contractors erecting the crane must review and complete FAA Form 7460 as required. Notice of Proposed Construction or Alteration (faa.gov)
- 20.4. Annual inspection is required, and a copy provided to PEPPER CONSTRUCTION upon request.
- 20.5. Tower Cranes must be inspected by a Third Party Qualified Person after erecting, climbing, jumping, de-jumping and/or dismantling activities. Additionally, a Registered Professional Engineer must verify that the host structure is strong enough to withstand forces imposed on it by braces, anchorages, and supporting floors. A copy of this inspection must be provided to PEPPER CONSTRUCTION upon request.
- 20.6. All signal persons and riggers must have certified training. Certifications must be current and in good standing. Certifications must be available for verification by PEPPER CONSTRUCTION at any time while the operator is on site.

20.7. Tag lines or guide ropes shall be used to control all loads.

- 20.8. Equipment operators and truck drivers must not operate closer than recommended minimum clearance distances from overhead or underground electrical wires. If work is required near these utilities, the TRADE PARTNER must consult with the PEPPER CONSTRUCTION site Superintendent about alternative action plans.
- 20.9. The TRADE PARTNER is required to complete the DAILY HOISTING PERMIT for all critical lifts. Critical Lifts are lifts in which a crane that is using 75% of the crane chart capacity or lifts involving more than one crane. A Daily Hoisting Permit form is in the Project Specific Safety Plan.
- 21. NON-CRANE HOISTING when using equipment such as but not limited to pulley, winches, come-a-longs, forklifts and gantry systems, the hoisting system must be designed and engineered to be used in such a manner. The hoisting system includes all hoisting equipment and components, anchor points, attachment points and rigging. Documentation, including the weight of objects being hoisted and capacity of each hoisting component and hoisting system as a whole, must be provided to Pepper Construction prior to hoisting.
- **22. DRONE USAGE** If the usage of an aerial drone is required by any Trade Partner/vendor on any PCCI project sites, the Trade Partners/vendors must contact the appropriate PCCI Drone Program Manager, Ethan McDonald for consultation with the PCG Legal Department prior to use and to ensure that the Trade Partner meets requirements as outlined in FAA's Small UAS (Unmanned Aircraft Systems) Rule (Part 107).
- **23. DEMOLITION** Demolition of existing electrical, plumbing, and/or mechanical must not commence without the following steps.
 - 23.1. The utility must be identified and marked by the trade responsible for that utility.
 - 23.2. Markings will be placed at 4ft (max) intervals and be color-coded that signify the following:
 - 23.2.1. Green Safe to Cut and Remove
 - 23.2.2. Red or not color coded Do Not Cut or Remove Stop Work and contact PEPPER CONSTRUCTION supervision.
 - 23.2.3. **Yellow** Dead but staying in place
 - 23.2.4. Orange Environmental (Asbestos, lead, PCBs)
 - 23.3. Surveying tape for color coding/flagging of the 'to be removed' materials and mechanicals shall be used.

24. DRUG & ALCOHOL POLICY

- 24.1. All illegal and unauthorized substances, drugs, look-alike drugs, synthetic drugs, alcoholic beverages, and drug paraphernalia are strictly prohibited on PEPPER CONSTRUCTION jobsites.
- 24.2. Persons or TRADE PARTNER employees found to be using or in possession of, or concealing of any of the above items, will not be allowed on the PEPPER CONSTRUCTION jobsite.
- 24.3. Any employee of the TRADE PARTNER, suspected to be under the influence of drugs or alcohol, will be referred to their supervisor to determine their compliance to this Drug & Alcohol Policy and further disposition of the employee.
- 24.4. All employees, their vehicles, and personal property are subject to search and inspection, before entering or departing a PEPPER CONSTRUCTION job site.
- 24.5. PEPPER CONSTRUCTION has adopted a "Zero Tolerance" policy regarding drug or alcohol usage. Drug or alcohol use during the work shift is prohibited (This includes breaks and lunch).
- 24.6. On projects in Indiana, all contractor employees must possess a valid Substance Abuse card w/Photo ID, prior to working on a Pepper Construction project.
- 24.7. Pepper Construction will utilize the Construction Safesite system to verify whether the employee is "available" or "not available" for work.
- 24.8. All contractors must verify their employee's availability before sending them to a Pepper Construction project.
- 24.9. The following cards are accepted, CCS, IUCSAT, Quality Connection, Mechanical Pipe Trades, and ABC Trades card. A valid substance abuse card that meets the IUCSAT substance abuse program requirements, verifies that contractors have successfully complied with Pepper Construction's substance abuse policy.
- 24.10. Employees who have participated in a substance abuse test that fulfills Pepper Construction's testing requirements may obtain a CCS card by contacting DISA Global Solutions (holder of the CCS database) and presenting the test information for review. The card may be issued if the testing parameters are the same as the Pepper Construction Substance Abuse policy requirements.
- 24.11. Tradesmen shall present their photo ID and valid substance abuse card to the Pepper Construction onsite representative for documentation. In the event a card is lost supplemental info will be accepted until a new card is issued. Tradesmen that do not have a valid substance abuse card shall not be permitted on site until such time as one is obtained.

25. ELECTRICAL

- 25.1. TRADE PARTNERS are responsible for maintenance of their extension cords, electrical tools, and equipment. Defective extension cords & equipment shall be removed from service immediately. OSHA requires daily inspection of extension cords, tool cords, and equipment cords.
- 25.2. TRADE PARTNERS must always use GFCI's, even if using permanent building power.
- 25.3. Temporary Power Installation Temporary electrical power, such as receptacle and lighting wire, may not be installed on PEPPER CONSTRUCTION sites as open conductors. Open conductors are copper conductors covered with one layer of insulating material. Temporary wiring connections with open conductors and /or utilizing wire nuts must be wrapped with electrical tape for additional protection. Temporary electrical service conductors, unless installed in metallic raceways, must utilize flexible cords and cables which carry the trade name "HARD SERVICE" or "JUNIOR HARD SERVICE", as defined in the 2002 edition of the NEC/Article 400/Table 400.4.
- 25.4. Electrical extension cord use:
 - 25.4.1. All cords shall be designed for hard or extra hard usage. (Not less than 12-gauge conductors)
 - 25.4.2. Contractors shall identify all extension cords with a tag or be imprinted identifying the contractor company name.
 - 25.4.3. All extension cords and portable equipment shall be inspected prior to each use.
 - 25.4.4. Any damaged or defective cord or tool shall not be used. Any worn, frayed or damaged extension cords shall be removed from service. Damaged extension cords may not be repaired and put back into use.
 - 25.4.5. Extension cords shall be placed so they do not cause slip, trip or fall hazards. Where cord sets have the potential to be damaged or where sets pose an unsafe condition, cords shall be suspended at a minimum of 8' above the work area or otherwise protected from damage. Means used to protect cords from damage shall not create a slip, trip, or fall hazard to workers as well as the public. Circumstances in which carts, aerial/scissor lifts, workers, or the public must traverse over cord sets the protection must protect the cord from damage as well as prevent a slip/trip fall hazard.

- 25.4.6. End of Day Roll-Up: Each contractor and/or TRADE PARTNER is responsible for disconnecting all extension cords from electrical sources at the end of the day or working shift with exception of cords used for running essential equipment such as pumps and battery chargers. All extension cords shall be "rolled up" and stored at appropriate storage areas such as (gang boxes, material storage areas etc.).
- 25.5. Energized parts must be guarded per OSHA 1926 Subpart K.
 - 25.5.1. The permanent or an acceptable temporary cover must be provided. Non-conductive material is acceptable for temporary covers. However, cardboard is an unacceptable temporary cover.
 - 25.5.2. All temporary covers must have a positive fastening device to secure it to the panel. Magnetic temporary covers may only be used during the work shift for guarding if the personnel responsible for the open panels are required to leave the immediate area. Magnetic covers may not be used overnight or if tradesmen will not be present for the next shift.
 - 25.5.3. It is acceptable to leave a panel open if the area that contains the panel is secured or isolated per the requirements of OSHA 1926.403 (i)(2).
 - 25.5.4. All energized devices, such as light switches and electrical outlets, shall have non- conductive and positively secured covers in place. If devices are not energized, covers are not required per PEPPER or OSHA requirements. The use of electrical tape as a substitute for covers is not permitted. If covers must be removed for the purpose(s) of drywall finishing, painting, wall covering installation or other types of work, all energized devices shall be de-energized and locked out/tagged out by a qualified person prior to cover removal.
- 25.6. Any employee who may be working on or near (within 10') live electrical parts shall be qualified as explained in OSHA 1910 Subpart S. Live parts to which an employee might be exposed shall be put into an electrically safe work condition before an employee works on or near them, unless the employer can demonstrate that deenergizing introduces additional or increased hazards or is infeasible due to equipment design or operational limitations.
 - 25.6.1. Examples of increased or additional hazards include, but are not limited to, interruption of life support equipment, deactivation of emergency alarm systems, and shutdown of hazardous location ventilation equipment or removal of illumination for an area.

- 25.6.2. Examples of work that may be performed on or near exposed energized electrical conductors or circuit parts because of infeasibility due to equipment design or operational limitations include performing testing or trouble shooting of electrical circuits that can only be performed with the circuit energized and work on circuits that form an integral part of a continuous process that would otherwise need to be completely shut down in order to permit work on one circuit or piece of equipment.
- 25.7. If the live parts cannot be placed in an electrically safe work condition, other safety related work practices shall be used to protect employees who might be exposed to the electrical hazards involved. Such work practices shall protect each employee from arc flash and from contact with live parts directly with any part of the body or indirectly through some other conductive object.
- 25.8. It is the goal of PEPPER CONSTRUCTION to achieve 100% lockout/tagout when working on all systems that have the potential to become energized. If it is determined that lockout/tagout can't be achieved, the TRADE PARTNER must implement an energized work safety policy. If this policy must be implemented, immediate notification of the PEPPER CONSTRUCTION Superintendent shall occur prior to initiating the work.
- 25.9. Lockout/Tagout Procedures shall be followed when work is to be performed on deenergized equipment. TRADE PARTNERS are required to develop and implement an energy control or lockout/tagout program and maintain onsite.

26. EXCAVATIONS

- At any time, a TRADE PARTNER-controlled employee is involved in the creation of, or working in, any trench or excavation, that TRADE PARTNER must provide an on-site COMPETENT PERSON who has certification of excavation task specific training. This documentation must be provided to the PEPPER CONSTRUCTION site Superintendent upon request.
- 26.2. The TRADE PARTNER shall attend a Daily Coordination Meeting The PEPPER CONSTRUCTION Superintendent and the TRADE PARTNER(s) will meet before work starts at the beginning of each shift. The meeting agenda shall contain the following items:
 - 26.2.1. Review and Completion of the "DAILY EXCAVATION AND UNDERGROUND UTILITY DAMAGE PREVENTION PERMIT"
 - 26.2.2. A discussion plus documentation of previous days (shift) trenching and excavating activities on the Master Utility Location Drawing.

- 26.2.3. A discussion of the scope and location of work for the days (shift) work.
- 26.2.4. Verification of known underground utility locations and applicable private and public locates using the UUDP Deliverable.
- 26.2.5. Discussion of any private and public locates or relocates needed for upcoming trenching and excavating activities.
- 26.2.6. Review of the excavation protective system i.e. sloping, benching, trench box prior to being utilized during the shift.
- 26.2.7. Review of the pot-hole/daylight/hand excavation procedures for all located utility crossing points.
- 26.3. TRADE PARTNER Tradesmen Task Hazard Analysis TRADE PARTNERS shall perform a Task Hazard Analysis for each trenching and excavating activity. If more than one activity occurs in a shift, additional THA's shall be performed. Agenda shall include:
 - 26.3.1. Work scope.
 - 26.3.2. Known overhead and underground utility locations and applicable private and public locate markings,
 - 26.3.3. Requirement that limits machine excavating, digging or auguring up to a 4-ft. limit on either side of the utility markings.
 - 26.3.4. Requirement that all located utility crossing points are exposed by day lighting procedures with vacuum truck or hand excavate. Must have EYES ON buried utilities before continuing to machine dig.
- 26.4. TRADE PARTNERS are required to install and maintain barricades around excavations/trenches to protect pedestrian and vehicular traffic from entering.
- 26.5. Equipment operators and truck drivers must not operate closer than recommended minimum clearance distances from overhead or underground electrical wires. If work is required near these utilities, the TRADE PARTNER must consult with the PEPPER CONSTRUCTION site Superintendent about alternative action plans.
- 26.6. The excavation must be sloped or benched per OSHA standards, shored and /or safeguarded through the use of a trench box or other engineered earth retention device(s) when excavation reaches five (5) feet or greater in depth. Protection against cave-in at a depth of less than five (5) feet may be required if the COMPETENT PERSON determines that soil or other conditions warrant such protection.
- 26.7. Pepper Construction UUDP Excavation Permits must be completed daily.

27. EXCAVATIONS - UNDERGROUND UTILITIES

- 27.1. Our goal is to eliminate underground utility damage incidents on our projects, and to deliver accurate as-built information on utilities installed during our projects.
- 27.2. Each SUBCONTRACTOR shall attend the Safety Plan Review meeting per Section 5 item 5.2 of the Safety Handbook. The Underground Utility Damage Prevention policies and procedures specific to this project will be discussed in the meeting.
- 27.3. Each SUBCONTRACTOR shall attend a SAFETY ORIENTATION pursuant to section 8 of the Safety Handbook. The Underground Utility Damage Prevention policies and procedures specific to this project will be discussed in the orientation.
- 27.4. Each SUBCONTRACTOR shall follow the processes outlined in section 27 EXCAVATIONS of the Safety Handbook. This includes attending daily coordination meetings lead by the PEPPER CONSTRUCTION Superintendent. Coordination meetings will take place PRIOR to commencing work on any given day.
- 27.5. Each SUBCONTRACTOR will perform a Task Hazard Analysis for each trenching and excavate activity and will review with the PEPPER CONSTRUCTION Superintendent prior to commencing work on any given day.
- 27.6. Each SUBCONTRACTOR performing underground work is required to call in their own public utility locates and keep the dig numbers valid per 811 laws.
- 27.7. PEPPER CONSTRUCTION will coordinate and schedule the private utility locates
- 27.8. Each SUBCONTRACTOR shall perform potholing of underground utilities to get "Eyes-On" the utility PRIOR to continuing with machine excavating for the work at the following conditions:
 - 27.8.1. Where the excavation for the new utility crosses any underground utility
 - 27.8.2. Where the excavation for the new utility is within 4 ft of either side of the onsite utility marking (i.e. paint or flags)
 - 27.8.3. Where the PEPPER CONSTRUCTION superintendent directs the SUBCONTRACTOR to do so
- 27.9. Each SUBCONTRACTOR shall survey their installed utility PRIOR to backfilling. Survey shall be performed in accordance with the Survey Data Requirements Below and shall be delivered to PEPPER CONSTRUCTION no later than 24 hours after the data is collected.
- 27.10. As-Built Survey Data Requirements of **New Underground Utilities**
- 27.11. Newly installed utilities as a part of the contractor's scope of work shall be surveyed prior to backfill of utility as follows:
 - 27.11.1. Survey top of utility elevation
 - 27.11.2. Document size of utility at each survey point

- 27.11.3. Document type of utility at each survey point
- 27.12. Utilities shall be surveyed at the following frequency
 - 27.12.1. At the start and end of each utility run
 - 27.12.2. At each change in direction of the utility and/or at each tie in to new or existing structures
 - 27.12.3. At each change in elevation of the utility (excluding changes in elevation due to gravity slope of piping)
 - 27.12.4. If an "As-Built Intent Plan" is provided in the scope of work, as-built data should be collected on utilities at locations in conformance with this plan.
- 27.13. Information shall be provided in a format as follows:
 - 27.13.1. Information can be generated using AutoCAD, Civil 3D, or similar
 - 27.13.2. Information shall be delivered in the .dwg file extension version 2010 or newer
 - 27.13.3. Coordinate System of CAD file to be in accordance with the State Plan Coordinate system.
 - 27.13.4. Points shall be represented by linework in the CAD file as follows
 - 27.13.4.1. Points shall be represented with linework or Civil 3D points
 - 27.13.4.2. Points shall be shown at the correct "X, Y, Z" location relative to the project's site CAD file provided by the design team and/or Pepper Construction
 - 27.13.4.3. Points shall be accompanied by a text label/annotation clearly noting elevation of top of utility, size of utility, and type of utility
 - 27.13.4.4. Points shall be connected by linework to indicate the complete run of the system
 - 27.13.5. Points shall be provided in a .csv file format in PENZD format
- 27.14. Where possible and at the direction of the Pepper site superintendent, sight tubes should be installed at locations where as-built survey data has been collection for reference throughout the project.
 - 27.14.1. Install minimum diameter 4" PVC pipe on top of the exposed utility
 - 27.14.2. Install removable cap

- 27.14.3. Write on outside of pipe (above grade) the utility type, utility size, and appx utility depth below grade
- 27.14.4. Top of sight tube should be 2' above grade U.N.O.

28. FALL PROTECTION

- 28.1. A fall protection program is designed to provide the required methods to prevent employees from exposure to or suffering an injury due to a fall from an elevation. Due to the extreme severity of fall related injuries, TRADE PARTNERS must exercise every precaution required. The use of fall protection systems and equipment is required on all PEPPER CONSTRUCTION jobsites. Any employee found to be in violation of PEPPER CONSTRUCTION Fall Protection requirements is subject to immediate removal from the jobsite. A "Fall Protection System" is defined as some engineered, physical means or methods that are designed to eliminate a fall exposure to employees. Under OSHA 1926 Subpart M, it is required to provide "Guard Rail Systems, Safety Net Systems or Personal Fall Arrest Systems." General Requirement: Fall protection is required whenever employees are exposed to falls of six (6) feet or greater, to a lower level.
- 28.2. OSHA 1926 Subpart M states that there may be work activities that qualify for an exception to the six (6) foot rule. However, it continues to state, "There is a presumption that it is feasible and will not create a greater danger to implement at least one of the above referenced systems." PEPPER CONSTRUCTION supports this presumption of feasibility, and any exception must have the approval of the PEPPER CONSTRUCTION Safety Department and site Superintendent. It has been demonstrated that effective fall protection can be provided for many concrete leading-edge operations, pre-cast plank and double-T erection, and low sloped (4 in 12 or less) roofing operations. It is required that the appropriate fall protection systems be provided. This must be addressed in the Site-Specific Safety Plan that each TRADE PARTNER is contractually required to provide to PEPPER CONSTRUCTION.
 - 28.2.1. **Concrete Leading-Edge Operations -** Engineered fall protection systems must be used to minimize fall exposures.
 - 28.2.2. Roofing A Fall Protection System is required for all low sloped (4 in 12 or less) roofing operations when the fall distance exceeds six (6) feet. Safety monitors are not considered positive fall protection. In addition, any employee engaged in the installation of sheet metal materials (including but not limited to flashing, coping caps, etc.) must use a Fall Protection

- System. Skylights shall be considered the same as a roof opening/hole and protected as such.
- 28.2.3. Warning Line Systems: Roofing and Non-Roofing Work on low sloped roofs All trade tasks not limited to roofing work being performed on low-sloped roofs must install a warning line system. The warning line system must be created with flagging or barricades and be established at a minimum of fifteen (15) feet from unprotected sides or edges, including skylights and roof openings/holes. A flagged or barricaded path must be established and maintained from the point of access to the warning line system. Any employee outside the warning line system must utilize a Fall Protection System.
 - 28.2.3.1. Lines: Warning lines must have a minimum tensile strength of 500 pounds and may be made of rope, wire, or chain. They must be also marked or flagged at not more than 6-foot intervals with high-visibility material. Lines must be rigged and supported in such a way that their lowest and highest points are no more than 34 inches and 39 inches, respectively, above the surface. Supports: Lines supported by stanchions must be installed so that the slack between two stanchions can't be taken up before the stanchions tip over. Stanchions must be able to withstand a 16-pound horizontal force applied 30 inches above the working surface. The force must be applied perpendicular to the warning line and in the direction of the roof edge.
 - 28.2.3.2. Rope grabs: rope grabs are to only be used in a vertical orientation only. Retractable lanyards are to be used in the place of rope grabs when there is the need to tie off for leading edge work.
- 28.2.4. **Steel Erection** All steel erection activities (erectors, connectors, and decker's) are contractually required by PEPPER CONSTRUCTION, to include 100% fall protection when fall hazard is six (6) feet or greater.
 - 28.2.4.1. The TRADE PARTNER (fabricator and their erector) is required to submit in writing a detailed plan of all fall protection to be used on the project. This includes a detailed analysis of all fall hazards greater than six feet. The plan shall include a detailed description of the specific personal fall arrest systems to be used

- including manufacturers and/or engineered designs, limitations of use, and the minimum clearance distance required for the system to prevent the worker from striking the floor/deck below. Systems that do not prevent contact with the surface below will not be permitted.
- 28.2.4.2. PEPPER CONSTRUCTION further requires that decking be installed every two stories or thirty (30) feet, whichever is less, before erecting additional levels.
- 28.2.4.3. Any exceptions based on feasibility or constructability constraints must have the written approval of the PEPPER CONSTRUCTION Safety Department, Project Manager and site Superintendent.
- 28.2.4.4. Working floors to be considered "controlled access" areas for ironworkers and decker's only until the floor has achieved 100% fall protection unless personal fall protection systems are utilized. All openings to be covered and cabled before access by other trades.
- 28.2.4.5. All openings greater than 16 square feet shall have cable guardrail systems installed in addition to being covered.

 Stanchion support locations should be coordinated to facilitate installation of interior shaft walls. If necessitated by fall protection distance requirements, stanchion installations should occur after decking on the floor above has been completed.
- 28.2.4.6. Cable must not deflect more than 2 in. when a 200-lb. force is applied. If a 2-in. deflection is exceeded additional intermediate supports must be provided. Maximum 2-in. deflection must be maintainable. Maximum distance between supports is 15 feet. Bracing/Kickers shall be provided at corner stanchions to maintain plumb when cables are pulled tight. The cable shall be provided with a positive tensioning device (such as a turnbuckle) which will reduce the sag in the cable to not more than 2 inches in a 20-foot span. The tension device shall have a breaking strength of not less than 10,000 pounds.

- 28.2.4.7. Roof levels must be protected with a Perimeter Guardrail
 System (top rail and mid- rail). PEPPER CONSTRUCTION must approve variations due to job conditions of this requirement.
- 28.2.4.8. Overhead protection On multi-story steel erection projects, a minimum of two decked floors one of which must be poured shall be in place between the erector's raising gang and trades below whose work is unrelated to the steel erection process.
- 28.2.4.9. 12 ft. Rated Lanyards: 12 ft. rated double hook or (Y) lanyards will be required when employees are tying off at their feet and/or when circumstances exist where the free fall distance prior to the lanyard engaging is beyond or exceeds six feet (6 ft.).
- 28.2.5. Masonry Fall Protection (Overhand Operations) A Fall Protection System must be provided to all workers exposed to a six (6) foot or greater fall hazard. Therefore, the OSHA 1926 Subpart M fall protection exception does not apply to overhand bricklaying operations on PEPPER CONSTRUCTION projects. This includes those engaged in overhand work including the laying of brick, block, and related materials, striking, and brushing joints. In relation to operations included in OSHA 1926 Subpart L, Scaffolding, all regulations shall be followed.
- 28.2.6. Floor Openings & Perimeter Protection Guardrail systems are provided at the perimeter, stairway openings, and shaft openings. Smaller floor openings, including those less than 2" in diameter, are to be covered and secured. This is done to provide for the safety of all personnel on the job site.
 - 28.2.6.1. A guardrail system is defined as a toprail @ 42", a midrail @ 21", and includes a toeboard.
 - 28.2.6.2. Hole covers must be installed and maintained. If a hole cover is removed by another trade that TRADE PARTNER or trade assumes responsibility to cover and maintain that hole.
 - 28.2.6.3. Hole covers shall be designed to withstand twice the weight of workers, equipment, and materials. Floor covers must be raised or suitably barricaded to prevent overloading from mobile equipment such as scissors and boom lifts.
 - 28.2.6.4. Covers shall be secured against displacement horizontally and vertically.

- 28.2.6.5. All covers shall be marked with the words "HOLE, FLOOR OPENING, OR DO NOT REMOVE."
- 28.2.6.6. All floor covers must be sealed to the floor with watertight sealant unless otherwise specified by PEPPER CONSTRUCTION supervisor or Safety Department
- 28.2.6.7. If a TRADE PARTNER finds it necessary to remove a guardrail system, an authorized PEPPER CONSTRUCTION representative must be notified, and the removal and replacement of the protective device is to be coordinated with them. This procedure is critical in assuring that these systems maintain their required protective designs.
- 28.2.6.8. Should a TRADE PARTNER damage any protective system, they must notify an authorized PEPPER CONSTRUCTION supervisor immediately. Do not remove or repair these systems without notifying PEPPER CONSTRUCTION. Whenever guardrail systems or covers are removed, employees must be protected with appropriate fall protection systems. Failure to replace protective systems, may subject the responsible employee to removal from the jobsite. Further, failure to replace protective system will result in PEPPER CONSTRUCTION performing this work and the cost for this activity will not be negotiable, based on the SUBCONTRACT AGREEMENT with the respective firm.
- 28.3. Leading Edge rated lanyards leading edge rated lanyards (Class 2) will be required when an employee's anchor point is below the employee's dorsal D-Ring, and in the case of a fall, the lanyard would contact sharp edge, such as, but not limited to, steel, metal decking and concrete.
- **29. CONTROLLED DECKING ZONE** Controlled Decking Zone A controlled decking zone will be established in that area of the structure over 6 feet above a lower level where metal decking is initially being installed and forms the leading edge of a work area. In each CDZ, the following shall apply:
 - 29.1. Each employee working at the leading edge in a CDZ shall be protected from fall hazards of more than 6 feet (1.83 m), whichever is less.
 - 29.2. Access to a CDZ shall be limited to only those employees engaged in leading edge work.
 - 29.3. The boundaries of a CDZ shall be designated and clearly marked. The CDZ shall not be more than 90 feet (27.4 m) wide and 90 (27.4 m) feet deep from any leading edge. The CDZ shall be marked by the use of control lines or the equivalent. Examples of acceptable procedures for demarcating CDZ's can be found in Appendix D to subpart 1926.761.

- 29.4. Each employee working in a CDZ shall have completed CDZ training in accordance with 1926.762
- 29.5. Unsecured decking in a CDZ shall not exceed 3,000 square feet
- 29.6. Safety deck attachments shall be performed in the CDZ from the leading edge back to the control line and shall have at least two attachments for each metal decking panel.
- 29.7. Final deck attachments and installation of shear connectors shall not be performed in the CDZ.
- **30. FALLING OBJECTS PREVENTION** Personal fall protection has long been the #1 priority in construction for good reason, as falls from height remain the most frequent cause of construction worker fatalities. Recently, a new type of fall protection is gaining momentum, falling object protection, due to the number of injuries and fatalities resulting from dropped or falling objects. When objects (tools, material, etc.) have the potential to drop to a lower level, some type of preventative measure must be taken. Examples of preventative measures include but are not limited to:
 - 30.1. Controlled Access Zone a physical barrier to prevent access to area(s) below overhead work.
 - 30.2. Tool tethers Tethers must be specifically designed for the sole purpose of preventing tools from being dropped. Job made products are not permitted.
 - 30.3. Spotter a person, designated as a spotter, must be positioned to prevent unauthorized access below overhead work. This person shall have no other duty while designated as a spotter. If the spotter must leave the area, the overhead work must cease.

31. FIRE PROTECTION

- 31.1. Good housekeeping practices are the singularly most important element of fire protection. Combustible materials must be placed in trash receptacles and removed by the TRADE PARTNER performing the work from the project in a timely fashion.
- 31.2. When portable heaters are used, make certain they are placed well away from the combustible materials (both side to side and above and below.)
- 31.3. Temporary heaters will be checked for correct operation prior to being put into service each day.
- 31.4. Fire extinguisher shall be placed in conspicuous areas and be accompanied with proper signage.

- 31.4.1. All fire extinguishers shall be placed in boxes or on stands painted red, or hung on walls with red backboards at approximately 48" height. No fire extinguisher may be allowed to rest on bare ground.
- 31.4.2. One portable dry chemical fire extinguisher not rated less than 20lb ABC to be provided within five (5) feet of wherever gasoline operated equipment is being used.
- 31.4.3. Fire extinguishers are not to be tampered with or removed from assigned locations (except for emergency use). If discharged for any reason, the fire extinguisher must be replaced or recharged immediately.
- 31.5. Procedures to be followed in the event of a fire should be rehearsed regularly.
- 31.6. Hot Work Operations In occupied buildings or at the discretion of the PEPPER CONSTRUCTION Superintendent a Hot Work Permit is required for operations or activities involving an open flame or work which may produce sparks or smoke including but not limited to: welding, torch cutting, soldering, grinding, chop saw use and open flames.
 - 31.6.1. Permits are valid for only the date, shift, and location indicated.
 - 31.6.2. It is the responsibility of the TRADE PARTNER to provide adequate fire extinguishers in the work area. One portable dry chemical fire extinguisher not rated less than 20lb ABC to be provided within twenty-five (25) feet of work.
 - 31.6.3. A fire watch shall be maintained whenever welding, cutting, or spark producing operations take place and there is a threat of fire.
 - 31.6.4. A properly trained fire watch shall be provided and shall have no additional duties.
 - 31.6.5. Fire watch shall be continued for a minimum of (40) minutes after hot work has been completed. Procedures may vary by exposure.
 - 31.6.6. The Hot Work Permit must be submitted to an authorized PEPPER CONSTRUCTION representative. The PEPPER CONSTRUCTION site Superintendent may designate an authorized person for this purpose. All guidelines contained within that Hot Work Permit must be followed.
 - 31.6.7. Asphalt/Pitch kettles are covered by the Hot Work Permit Program. Tar Pots are always required to be attended. Under no circumstances shall "tar pots" be located closer than 35 feet to any combustible storage area.

31.7. Flammable Storage/Use

- 31.7.1. Gasoline and other flammables must be kept in an approved metal safety can (approved by a nationally recognized testing laboratory) for the handling and use of flammable liquids. Further, a safety can, by definition, is a container with a capacity of 5 gallons or less and equipped with a spring-closing lid and spout cover, a means to relieve internal pressure, and flash-arresting screen. The limits of quantities stored must meet local, state, and/or federal regulations. Plastic gas cans are prohibited. Flammables must be stored in properly labeled containers (HAZCOM requirement). It is the responsibility of the TRADE PARTNER to provide adequate fire extinguishers. Smoking is strictly forbidden in areas where flammables are stored or used. "NO SMOKING" signs must be posted and obeyed.
- 31.7.2. Portable fuel tanks will be installed in accordance with federal, state and local requirements. It is the Contractor's responsibility to secure all required permits and provide proof of same.
- 31.7.3. Flammable liquids shall be stored outside, away from buildings, in a safe and secure location in standard approved storage containers or tanks.
- 31.7.4. No flammables may be stored inside tool trailers, job toolboxes or other closed locations.
- 31.7.5. Storage of fuel gas cylinders shall be outside in an area approved by PEPPER CONSTRUCTION.
- 31.7.6. Portable tanks not to be nearer than 20 feet from any building. Portable fuel tanks/containers are not allowed inside the building under any circumstances.
- 31.7.7. At least one portable fire extinguisher having a rating of not less than 20-B units shall be located not less than 25 feet, nor more than 75 feet, from any flammable liquid storage area located outside.
- 31.7.8. Fueling and refueling operations for equipment, whether gasoline or diesel, shall be done outside of the building, no closer than 35' from the building.
- 31.7.9. Liquefied Petroleum Gas (L-P Gas) Storage of L-P gas cylinders within buildings is strictly prohibited. L-P gas containers, when in use, must stand on a substantially level, firm surface and secured in an upright position to prohibit falling, tipping or toppling of containers. Heating equipment must

be located at least 6 feet from L-P gas containers and the heat directed away from the containers.

32. HAZARD COMMUNICATION

- 32.1. In accordance with PEPPER CONSTRUCTION's Hazard Communication Program, all hazardous material containers must be properly labeled. Every TRADE PARTNER must supply a Safety Data Sheet (SDS) to the PEPPER CONSTRUCTION site Superintendent at least seven (7) days before introducing a hazardous material to the jobsite. A list of the hazardous materials used on the jobsite by the TRADE PARTNER will be maintained in the TRADE PARTNER'S file. An additional set will be maintained in PEPPER CONSTRUCTION's site job file.
- The TRADE PARTNER must maintain their written HAZCOM Program at the jobsite, along with the training program utilized for their employees. Revision to this program must be provided when requested by the PEPPER CONSTRUCTION Site Superintendent or Safety Department.
- The SDS must be maintained on the job site. A copy of the PEPPER CONSTRUCTION HAZCOM Program may be obtained from the PEPPER CONSTRUCTION Safety Director's office located at 1850 W 15th Street, Indianapolis IN 46202, upon written request.
- 32.4. All chemicals on site will be stored in their original or approved containers with a proper label attached. Any container not properly labeled should be given to the Contractor Supervisor for labeling or proper disposal.
 - 32.4.1. Immediate us means that the hazardous chemical will be under the control of and used only by the person who transfers it from a labeled container and only within the work shift in which it is transferred.

33. HOUSEKEEPING

- Our policy is "nothing hits the floor". All work operations shall be provided with appropriate trash receptacles for debris, scrap, cutoffs and packaging. All debris, especially combustible scraps and debris must be cleared from the building and work areas daily.
- 33.2. Daily housekeeping by each TRADE PARTNER is essential for maintaining a safe job site. TRADE PARTNERS are responsible for housekeeping procedures in their respective work areas. The working definition for Daily Housekeeping at PEPPER CONSTRUCTION is as follows:

- 33.2.1. All debris, especially combustible scraps and debris must be cleared from the building and work areas daily.
- 33.2.2. Nails, wire ties, and other accessories shall be promptly removed from lumber or any other used lumber at the time of stripping or dismantling. If it is not practical to remove or bend nails in used lumber to avoid tripping hazards and nail traps, the lumber must be stacked for cleaning and re-use. Lumber must not be scattered.
- 33.2.3. The work site, especially stairways and walkways, shall be kept clear of obstructions that may create tripping or other hazards.
- 33.2.4. Tools must be stored in toolboxes. If laid aside temporarily, the tools must be placed where they will not present a hazard. Tools must not be placed in a position to fall on someone at a lower level.
- 33.2.5. All construction materials and supplies stored neatly in designated areas.
- 33.2.6. Floors shall be swept daily using wax based sweeping compound to remove accumulated construction dust.
- 33.3. TRADE PARTNER failure to maintain their work areas as required or directed will result in PEPPER CONSTRUCTION performing this clean-up. The cost for this activity will not be negotiable, based on our SUBCONTRACT AGREEMENT with the respective firm.
- **34. INDOOR AIR QUALITY** In General the use of gas-powered equipment is prohibited within the building structure. If no other feasible option, the contractor using said gas powered equipment must provide safeguards: such as, continuous CO air monitoring for the duration of the work in that same area, installation of scrubbers on the equipment used, local ventilation, or scheduling off hours. All Federal and Local requirements must be followed.
- 35. LADDERS Our goal is to reduce the risk posed by using ladders to access work at height by reducing the overall percentage of work completed using ladders. This involves Identifying alternatives to ladder use for work scopes at the planning phase. Alternatives to ladders include scissor lifts, man lifts, and scaffolds.

When ladders are determined to be the best option the following requirements apply:

- 35.1. Step ladders 6' or greater of working height shall be platform ladders unless the users are protected with suitable fall personal fall protection systems.
- 35.2. All ladders must be used in strict accordance with the manufacturers and ANSI requirements.

- 35.3. Step and extension ladders shall be constructed of fiberglass and rated Type IA, IAA or IAAA. Wood and metal ladders are prohibited.
- 35.4. Whether using portable, fixed, or job-made ladders, proper safety precautions must always be followed. Employees must always ascend or descend a ladder with three (3) points of contact.
- 35.5. Ladders must be inspected daily; broken or damaged ladders will be removed from service immediately and destroyed.
- 35.6. Extension ladders cannot be separated for use as single units. Extension or straight single ladders must be properly secured at the top and if possible, the bottom. A minimum of thirty-six (36) inches is required above the top access point of an extension or straight ladder.
- 35.7. Documentation of ladder safety training must be provided at the request of the PEPPER CONSTRUCTION site Superintendent.
- 35.8. For work from ladders within ten feet of the exposed edge or perimeter of the building or structure; where other positive means of conventional fall protection do not already exist; positive means of fall protection, such as but not limited to personal fall arrest systems (PFAS) will be employed.

36. MASONRY CONSTRUCTION

- 36.1. A Limited Access Zone shall be established whenever a freestanding masonry wall is being constructed.
- 36.2. The Limited Access Zone shall be established before the start of the wall construction, equal to the height of the wall to be constructed plus four feet, run the entire length of the wall, and established on the side of the wall that will not have scaffold installed.
- 36.3. Limited Access Zone entry is restricted to employees who are actively engaged in the construction of the wall. No other employees shall be permitted to enter the zone.
- 36.4. The Limited Access Zone shall remain in place until the wall is adequately supported to prevent overturning. OSHA considers bracing as adequate support.
- 36.5. An engineered bracing design shall be used for all freestanding masonry walls over eight (8) feet in height to prevent overturning and collapse. Bracing shall remain in place until permanent supporting elements of the structure are in place.
- 36.6. All block and brick cutting activities that create the potential for respirable crystalline silica dust exposure shall use water as an engineering control. If it is determined by

PEPPER that water cannot be used, all exposed employees shall wear approved respirators and the operation shall be in an area where non-protected employees and the general public are not exposed to silica containing dust.

37. MATERIAL HANDLING

- 37.1. Materials shall not be stored outside of designated construction areas.
- 37.2. Sheet materials (ex: drywall, plywood, oriented strand board, hardboard, fiberboard, overlay plywood) and doors shall not be stored on edge or on drywall carts.
- 37.3. In order to maximize mobility and safe transport of materials, loading of drywall carts shall be limited to one half of the rated weight capacity.
- 37.4. Metal banding shall not be used for concrete formwork. Acceptable means include poly or nylon.
- 37.5. Material Handling for Multi-Story Structures
 - 37.5.1. The practice of swinging or pulling a suspended load into a building by any method is strictly prohibited. This practice places employees, equipment, and the structure at substantial and unnecessary risk. This operation must be analyzed in the site-specific safety plan.
 - 37.5.2. Proper loading systems including, but not limited to, are: material/man hoists, platform lifts, landing platforms or lookouts.
 - 37.5.3. If guardrails are removed on landing platforms, lookouts or hoists, personal fall protection must be provided for exposed employees. Additionally, if guardrails are removed, flagging must be installed to warn of fall hazard or unprotected edge condition.
- 37.6. Free-Rigging is prohibited: Free rigging is the direct attachment to or placement of rigging equipment (slings, shackles, rings, etc.) onto the tines of a powered industrial truck for a below-the-tines lift. This type of lift does not use an approved lifting attachment.
- 37.7. Personnel are strictly forbidden from riding on material hoisting equipment at any time.

38. MOTORIZED EQUIPMENT

38.1. All motorized equipment that has limited or obstructed view by the operator during reverse or backing up movement, must have a back-up alarm installed and operating. This includes skid steer equipment.

- 38.2. All operators of motorized equipment/machinery must wear seatbelts if said equipment has been manufactured with one.
- 38.3. All equipment operators must shut down their engines during the refueling process. Fire extinguisher(s) must be readily available during refueling, located within twenty-five (25) feet of lateral distance.
- 38.4. Only authorized person's licensed and certified as required by local, state or federal mandates, shall operate machinery, equipment, tools or vehicles.
- 38.5. No riders on machinery or equipment without proper seating accommodations.

 Riders in trucks are to be seated, in a seat while the vehicle is moving. No workers may be transported in the back of a pick-up truck AT ANY TIME.
- 38.6. All mobile machinery must have operable backup alarms and/or flashing strobe type lights at ALL times.
- 38.7. A flag person must be used to direct the backing up of a vehicle in any congested or noisy area. Any flag person exposed to vehicular traffic must be properly trained and certified for this task and must always wear a reflective vest.
- 38.8. The use of a mobile phone while operating any power-industrial trucks or power-industrial equipment and earth moving equipment is strictly prohibited.

39. TRANSPORTATION OF PERSONNEL

- 39.1. Transportation of persons in the back of pick-up trucks is prohibited.
- 39.2. No person will be permitted to ride with arms or legs outside of a vehicle body, in a standing position on the body, on running boards, seated on side fenders, cabs, cab shields, bed of the truck or on the load.
- 39.3. The number of passengers in passenger-type vehicles shall not exceed the number that can be seated
- 39.4. Trucks used to transport personnel shall be equipped with a securely anchored seating arrangement, a rear end gate, and guardrail. Steps or ladders, for mounting and dismounting, shall be provided.
- 39.5. All tools and equipment shall be guarded, stowed, and secured when transported with personnel.
- 39.6. Vehicles transporting personnel shall not be moved until the driver has ascertained that all persons are seated, and the guardrails and rear end gates are in place or doors closed.
- 39.7. Getting on or off any vehicle while it is in motion is prohibited.

39.8. All motor vehicles shall be shut down prior to and during fueling operations.

40. PERSONAL PROTECTIVE EQUIPMENT

- 40.1. TRADE PARTNERS are responsible for providing their employees with all necessary PPE.
- 40.2. Clothing Appropriate clothing must always be worn. Clothing must consist of long pants and a shirt that covers the shoulders with a minimum 4" sleeve. Clothing must not be torn and must be free of offensive sayings or pictures. Loose clothing, shorts, athletic shoes, or sleeveless shirts are not permitted on the jobsite. Jewelry of any kind is strongly discouraged on the jobsite. The risk of becoming "caught on" or "caught in" increases substantially when necklaces, dangling jewelry, or rings are worn.

40.2.1. High Visibility Clothing

- 40.2.1.1. Flaggers and workers exposed to hazards posed by vehicles, earth moving equipment, extendable boom forklifts and cranes shall wear high visibility reflective clothing. High visibility clothing is defined as reflective and fluorescent vests or shirts that workers should wear to make them more visible when working near traffic and heavy equipment, in all light conditions, day and night. The following guidelines shall be used for selection of high visibility clothing:
- 40.2.1.2. ANSI Class 1 garment: For workers that are separated from vehicular traffic that does not exceed 25 miles per hour; where background settings and worker tasks are not complex.
- 40.2.1.3. ANSI Class 2 garments: Necessary for greater visibility during inclement weather; where work background is more complex and is close to moving traffic and vehicles; workers' attention will likely be diverted from traffic traveling at speeds from 25 to 50 miles per hour.
- 40.2.1.4. ANSI Class 3 garments: Traffic speed is greater than 50 miles per hour; worker must be conspicuous and identifiable as a person through the full range of body motions at a minimum of 1,280 feet.
- 40.2.1.5. At the discretion of Pepper Construction, projects may require high visibility clothing 100% of the time.

- 40.3. Footwear Construction workers and visitors are required to wear a well-constructed hard sole, closed-toe work shoe.
- 40.4. Gloves Appropriate hand protection is required when employees' hands are exposed to hazards such as those from skin absorption of harmful substances; severe cuts or lacerations; severe abrasions; punctures; chemical burns; thermal burns; and harmful temperature extremes. Leather and cotton gloves are not considered cut resistant.
 - 40.4.1. The use of cut resistant gloves is always required for trades with exposure to hand and finger cut hazards.
 - 40.4.2. 100% hand protection is required for the following trades: ELECTRICAL, MECHANICAL, PLUMBING, CARPENTRY, DRYWALL, CONCRETE AND DEMOLITION.
- 40.5. Hard Hats Approved hard hats must be worn on the job site at all times. TRADE PARTNERS are not allowed to work without hard hats. PEPPER CONSTRUCTION will not provide loaner hard hats to TRADE PARTNER's employees.
- 40.6. Hearing Protection Appropriate hearing protection must be utilized for the anticipated noise levels encountered. The threshold for hearing protection is 90dBA.
- 40.7. Respirators The use of some types of respirators requires a medical examination and documented fit testing. Documentation must be provided to PEPPER CONSTRUCTION and kept on file.
- 40.8. Eye Protection The use of safety glasses with side shields or other suitable eye protection is required at all times. Additionally, face shields must be worn during the use of powder actuated tools, chop saws, partner saws, grinders, hydro vac excavating, or for tasks that create flying debris that can strike the face.
- 40.9. Welding shields shall attach to hard hats.
- 40.10. Roofing All workers involved with charging of roofing kettles shall wear task specific PPE. These items would include hood that provides face/neck protection, suitable outer- wear and gauntlet gloves.

41. POWDER ACTUATED TOOLS

- 41.1. Only employees who have been trained in the operation of the tool in use shall be allowed to operate a powder-actuated tool.
- 41.2. All Personal Protective Equipment (PPE) required (including but not limited to eye protection, face protection, gloves and hearing protection) must be used during the

- operation of the tool. All live loads remaining in a used clip shall be discarded properly.
- 41.3. Proper disposal could include a container of water or other closed container that does not allow accidental detonation of unused loads.
- **42. PUBLIC PROTECTION** Construction activities attract the public. TRADE PARTNERS must provide safety barriers, walkways, lighting, fences, and any other means necessary to protect the public from possible injury because of the TRADE PARTNERS work. This must be part of the site-specific safety plan.
 - 42.1. Construction work areas must be barricaded and/or posted with appropriate signage. At no time shall work be performed over persons or aisles without such barricades in place to prevent access.
 - 42.2. Red barricade tape is to be used to enclose hazardous work areas. Entry into these areas is restricted to authorized personnel.
 - 42.3. Yellow barrier tape shall be used to enclose areas where caution must be exercised.
 - 42.4. When steel plates, wood planking or similar covers are located where there is pedestrian traffic or exposure, they shall be tapered on all sides with cutback, cold mix or similar material to eliminate tripping hazards. Covers will be non-slip in nature or have a non- slip surface.
- **43. RADIOS** Electronic entertainment devices are prohibited in the job site work area. Radios are permitted in the site trailer or office primarily for public notification of emergencies (such as weather, security alerts, etc.). Repeat violations of this policy will result in the appropriate discipline, up to and including removal from the jobsite.

44. SCAFFOLDING

- 44.1. Per OSHA 1926 requirements, any employee that uses, erects, or dismantles a scaffolding system must be trained in this task. TRADE PARTNER documentation of this training must be provided to PEPPER CONSTRUCTION upon request.
- 44.2. A scaffold tagging system shall be used to identify the status of each scaffold.

 Scaffold status should include the following categories: complete/all requirements met, complete/hazards noted, and/or incomplete do not use.
- 44.3. Fall protection at heights above 6 feet is required during scaffold erection and dismantlement. Fall protection systems may include horizontal static lines or vertical lifelines.

- 44.4. The footings for scaffolding must be rigid, sound, and capable of carrying the load without settlement or displacement. Unstable objects such as barrels, boxes, loose brick, concrete blocks, or pieces of scrap lumber shall not be used to support scaffolding. Mudsills, base plates, and leveling jacks must be used.
- 44.5. Standard scaffolding, whenever feasible, shall have guardrails (top and mid rails) whenever the work platform is located at six (6) feet or greater above lower level. If X- brace pivot point is greater than thirty- eight (38) inches but less than forty-eight (48) inches above work platform, only a midrail is required. If X-brace pivot point is greater than twenty (20) inches but less than thirty (30) inches above the work platform only a top rail is required. All other scaffolding situations require guardrails per OSHA standards.
- 44.6. All scaffolding that is less than forty-five (45) inches wide must have guardrails whenever the work platform is at forty-eight (48) inches or greater above lower level. This includes Perry and Baker-type scaffolds. Toe boards are required to provide for falling object protection, unless the area below is barricaded and be considered a limited access zone.
- 44.7. Work platforms must be fully planked, except during the erection and dismantling process. At that time, two planks or an eighteen (18) inch wide (minimum) work platform will be provided. Planks must be scaffold grade or documentation provided substantiating that plank material to be of equal or greater strength. This includes planking used by concrete contractors on forming systems. All planking of work platforms must be overlapped a minimum of twelve (12) inches or secured from movement with cleats. Scaffold planks shall extend over their end supports not less than six (6) inches or more than twelve (12) inches. Planks must be inspected before each use and cracked or damaged planks must be removed from service prior to use.
- 44.8. An access ladder or equivalent device, to allow safe access, must be provided for all scaffolding. If the fall distance exceeds 15', stair towers or internal ladder systems must be used. Safe access includes a gate, chains or other barriers that eliminate fall hazards after platform is accessed.
- 44.9. All diagonal bracing must be in place and secure. Braces do not take the place of mid and top rails (except as noted above.)
- 44.10. The scaffold system must be tied to and securely braced against the structure per the minimum requirements of the OSHA standard. If the scaffolding system is to be enclosed for wind or weather protection, it must be designed by a competent person to withstand the additional loads.

- 44.11. When work is to be completed in stairwells rolling scaffolds shall not be used.
- 44.12. Narrow frame scaffolds (Perry/baker type), are not designed to support additional pick boards, walk boards, or scaffold planks. This practice is not allowed.
- 44.13. Training, inspection procedures, maintenance, and operation of self-propelled mobile scaffolds must comply with the manufacturer's requirements and documentation. This documentation must be provided when requested by the PEPPER CONSTRUCTION Safety Department or site Superintendent.
- 44.14. Outriggers or stabilizers must be used, as required, by the manufacturer, guardrails in place and access gates closed while unit is in use.
- 44.15. Minimum safe distances from energized power lines must always be maintained (refer to the site-specific safety plan).
- 44.16. Manually Propelled Mobile Scaffolds All casters shall be provided with a positive locking device to prevent scaffolding from rolling. Platforms will be tightly planked for their full width. The floor or work surface must be free from voids, holes, or obstructions. The height of rolling scaffolds must not exceed four (4) times the shortest base dimension.
- 44.17. Two-Point Suspension Scaffolds The roof iron or hooks shall be of proper size, design, and material. Installation must be secure and anchored properly under the supervision of a trained, competent person. Tiebacks shall serve as a secondary means of anchorage installed at right angles to the face of the structure and secured to a structurally sound element of the building. All employees must be trained in the hazards associated with suspended scaffolding, as well as the controls necessary to eliminate each hazard. Fall protection systems must be used in conjunction with suspended scaffolds.

45. STILTS

- 45.1. A competent person shall first train each employee who is assigned to wear stilts in the safe use and inspection of the equipment. The competent person shall also make the determination that the tradesman is proficient in the use of stilts before the tradesman is assigned to work on them.
- 45.2. Stilts shall be thoroughly inspected before each use.
- 45.3. Stilts shall only be used on hard level terrain, which is free of debris, slippery surfaces, electrical cords, or other obstructions, such as stored materials in the work path.

45.4. Tradesmen are responsible to notify their supervisors of any unsafe conditions or hazards concerning the safe use of stilts. Stilts shall not be used until all unsafe conditions have been corrected.

46. SCISSORS AND AERIAL LIFTS

- 46.1. Scissors and Aerial Lifts may not be "field modified" for uses other than those intended by the manufacturer unless the manufacturer has certified the modification in writing.
- 46.2. All lifts shall be inspected before use. Any deficiencies or equipment in need of repair shall be reported to the Superintendent or Foreman before use. If any equipment needs repair, the equipment shall not be used until authorization is received from the Superintendent or Foreman. Equipment in need of repair shall be tagged out until serviced. Inspection documentation shall be maintained with each piece of equipment for review.
- 46.3. Employees shall always stand firmly on the floor of the basket or platform, and shall not sit or climb on the edge or rails of the basket or use planks, ladders, or other devices for a work position.
- 46.4. Lifts shall not be loaded in excess of the designed working load. Lifts are designed for lifting personnel and small hand tools. Lifts are not to be used in lieu of a crane.

 Aerial lifts shall not be used to transport construction materials.
- 46.5. A full body harness shall be worn with a self-retracting lanyard attached to the boom or basket when working from an aerial lift.
- 46.6. Operator must have documented proof of training (available upon request) and use equipment as intended.
- 46.7. Lifts must not be field altered and must use only engineered attachments approved by the manufacturer. It is highly recommended that operator of lift does not work alone.
- **47. SILICA EXPOSURES** any TRADE PARTNER that may create respirable silica dust must develop and implement a site silica exposure control plan in accordance with OSHA Subpart Z 1926.1153.
- 48. UTILITIES Equipment operators and truck drivers must be cautioned not to operate closer than recommended distances from overhead or underground electrical wires. If work is required near these utilities, the TRADE PARTNER must consult with the PEPPER CONSTRUCTION site Superintendent about alternative action plans. Whenever the TRADE PARTNER undertakes excavation work, it is their responsibility to contact the appropriate one

- call locating services. Work may not start until these dig numbers have been submitted to the PEPPER CONSTRUCTION site Superintendent and the schedule of excavation approved.
- **49. UTV** (**Utility Type/Terrain Vehicles**) To safely operate a utility type vehicle, the operator must use similar safe work habits as used with tractors, skid steer loaders, and ATVs. A safe, successful driver should become familiar with the machine before using it. This can be done by reading the owner's manual and following safety labels found on the vehicle. A qualified operator (salesperson) can also demonstrate the correct operation.
 - 49.1. Safety practices to follow when driving a UTV:
 - 49.1.1. Maximum speed while operating a UTV on a Pepper jobsite is 5 mph.
 - 49.1.2. Always keep legs and arms inside the vehicle.
 - 49.1.3. Drive slowly and turn smoothly to avoid an overturn.
 - 49.1.4. When hauling cargo, the vehicle's center of gravity is raised, increasing the chance of overturning.
 - 49.1.5. Drive completely up or down a slope or hill before making a turn. Do not turn the vehicle in mid-slope or hill as this increases the probability of overturning.
 - 49.1.6. Use the appropriate speed on rough terrain.
 - 49.1.7. Operators and passengers have been thrown from vehicles.
 - 49.1.8. Stay clear of ditches and embankments.
 - 49.1.9. Passengers must be tall enough to reach handhold while their backs are against the seat and their feet are flat on the floorboards.
 - 49.1.10. Each passenger must ride in his/her own seat, not anywhere else on the UTV.
 - 49.1.11. Operators must back up carefully and utilize horn.
 - 49.1.12. Operators should be free from the influence of drugs or alcohol.
 - 49.1.13. Due to the hauling purpose of a UTV, special attention should be paid to making sure cargo or material is properly secured during transport.
- 50. VISITORS Any person not directly involved with the on-site construction of this Project shall not enter the site without first going to PEPPER CONSTRUCTION's job office and signing a visitor's release and obtaining a hard hat and safety glasses which is to be returned to PEPPER CONSTRUCTION. Visitors must always be accompanied by a person that has attended site orientation, is responsible for that (person/group) visitor on site and is familiar with the

PEPPER CONSTRUCTION Site Safety Plan. All visitors must wear required PPE items such as hardhats, safety glasses, well-constructed hard sole, closed-toe work shoe and long pants. Visitors must not enter Construction or Restoration areas wearing shorts, skirts, open toed-shoes or high-heels. Visitors must sign-out when leaving the project. Note: Contractors are responsible and must always accompany equipment repair vendors brought on site.

51. WELDING AND CUTTING

- 51.1. The TRADE PARTNER must initiate a Hot Work permit with the PCCI Superintendent prior to conducting welding and cutting operations.
- 51.2. When necessary to provide protection for other employees and materials, screens or shields must be used where it is feasible.
- 51.3. All equipment used for welding and cutting including welding cables, gas cylinders, regulators and gauges, hoses, and torch sets shall be inspected each day before use.
- 51.4. Flash back arrestors shall be installed at the oxy-acetylene regulators in addition to the required torch head protection.
- 51.5. Valve protection caps shall always be in place except where cylinders are in use or connected for use. Regulators and hoses will be removed at the end of the work shift.
- 51.6. Compressed gas cylinders will not be stored inside of any structure this includes gang boxes, storage trailers and similar closed spaces.
- Personal Protective Equipment Head and eye protection must always be worn. Hard hats with eye and face protection for welding applications. Safety glasses with side shields or goggles are required when chipping or grinding a work piece if not wearing a welding helmet. All fabric garments must be resistant to spark, heat, and flame. Respiratory Protection is needed when ventilation is not sufficient to remove welding fumes or when there is risk of oxygen deficiency. Suitable welding gloves are required.
- 51.8. Welding fume extractors must be used for all hot work in occupied facilities to prevent the spread of fumes and smoke. Local exhaust ventilation shall consist of freely movable hoods intended to be placed by the welder or burner as close as practicable to the work. This system shall be of sufficient capacity and so arranged as to remove fumes, smoke at the source, and keep the concentration of them in the breathing zone within safe limits as defined in OSHA 1926 Subpart D.
- 51.9. For all welding and cutting operations, keep 35' clear of combustibles in all directions.

51.10. Shield combustible flooring with wet sand, fire retardant tarpaulins or sheet metal. Clean the area of oily deposits and trash. Cover any storage or other combustibles that cannot be moved away. It is the responsibility of the TRADE PARTNER to provide, install and maintain welding blankets when conditions warrant their use. Block off any duct openings where sparks can spread.

52. PRE-CAST / TILT UP WALL PANEL ERECTION

- 52.1. Pre-cast wall erector is to submit a written erection plan to the project team at least 7 days prior to mobilization on site.
- 52.2. **Erection plan must detail the following:**
 - 52.2.1. Erection plan must document the competent person for erector. Any change of competent person on the project site requires a written notification to the project team.
 - 52.2.2. Bracing plan: engineered drawing to be submitted to Pepper Construction and reviewed prior to erection of panels. Bracing must be installed per the engineered drawing, any deviation must be submitted and approved by the engineer of record.
 - 52.2.3. Panel connection details: engineered drawing to be submitted to Pepper Construction, panel connection details must be reviewed by the erection competent person and the Pepper Construction Superintendent prior to starting erection.
 - 52.2.4. At no time will a panel be erected and left without being braced or have all permanent connections installed per the engineered drawing. Any deviation from the plan must be submitted and approved by the engineer of record.
 - 52.2.5. Panel connection details at all 90-degree connections or any connection that is not a butt joint must be installed per the engineered drawing.
 - 52.2.6. Panel connection welds: welds must match details per the engineered drawing, any field modifications must be submitted and approved by engineer of record.
 - 52.2.7. Rigging plan to be submitted in this document: details of all rigging needed including but not limited to specialty hardware for picking and tripping loads.

PEPPER QUALITY REQUIREMENTS





Trade Partner Quality Plan Guidelines

Pepper Construction is building a culture of quality where our project teams and trade partners take ownership of the work and build it right the first time. To take our quality culture to the next level, we are asking our Trade Partners to develop **Job Specific Quality Plans (JSQP).** Trade Partner JSQP's can be in any format, but should generally answer the question, "How does the Trade Partner plan to control their quality on this project?" To sufficiently answer this question, Pepper anticipates a Trade Partner JSQP will cover the following areas:

1. Roles & Responsibilities for Quality Activities:

- a. Quality Champion (on site) responsible for Trade Partner Quality Control
- b. Company officer responsible for Trade Partner Quality Assurance
- c. Quality Control Plan for Second & Third Tier Trade Partners

2. Qualification & Certification:

- a. Company qualifications meet specifications, including documented experience and qualification letters from manufacturers or industry/trade associations
- Crew member certifications, qualifications and experience meet specifications (i.e., welding certificates, manufacturer's certified installer, etc.)

3. Submittals & Document Control:

- a. Submittal process to ensure all required submittals are complete, approved and distributed to the field prior to starting work (a submittal is required for all installed products)
- b. Identify what other trade partner submittals are needed for coordination
- c. Identify plan for mockups required by the project documents or as recommended by the trade partner
- d. Document control process to ensure the field is working off the current set of documents
- e. RFI process to ensure questions are addressed to the proper authority, and answers are distributed to the field

4. Materials & Equipment:

- a. Shop prefabrication work procedures, verification process, and inspection/testing program
- b. Material delivery, inspection, handling, acclimation and storage processes
- c. Process to verify and document delivered and installed materials match submittals
- d. Material compatibility plan to identify any materials in contact with this trade partner's materials are compatible either through manufacturer review or on-site testing.
- e. Equipment inspection process to verify shop equipment is in good condition, safe and calibrated as necessary.

5. Environment

- a. Temperature and humidity range required for quality installation, including any specific requirements for the type and duration of temporary heating or cooling. Include hot/cold weather procedures and products as recommended by the manufacturer, specification or applicable trade association.
- b. Process to monitor and document actual temperature and humidity readings during installation

6. Installation, Inspection, Testing and Commissioning:

- a. Mockup plan, including review and acceptance criteria and sign-off plan
- b. First work and follow-up inspection process including inspection checklist to be used
- c. Photo documentation plan including dissemination
- d. Non-conformance identification, tracking and correction process
- e. Inspection and Test Plan identifying requirements per code, contract documents, and manufacturer requirements. Must identify responsibility for testing and include allowable parameters.
- f. Manufacturer Site Visit plan as appropriate for the scope of work

7. Protection:

- a. Roof Protection Plan (required for any work on the finished roof)
- b. Floor Protection Plan (required for any work on the finished floor, or concrete floor for staining materials)

8. Warranty & Liability

a. List warranties for all products installed including duration of warranty and any special instructions, restrictions, or limitations.

9. Partnering with Pepper's Quality Program

- a. Pepper's Quality Commitment Letter signed by Company Officer (include copy in the Quality Plan)
- b. Top 3-5 quality concerns specific to the Trade Partner's scope on this project (i.e., What could go wrong?)



Quality Requirements:

- 1. Trade Partner Quality Plan: All Trade Partners awarded subcontract agreements shall prepare and submit a Job Specific Quality Plan (JSQP). The Trade Partner JSQP shall follow the Trade Partner Quality Plan Guidelines and will be submitted to Pepper as a submittal for approval prior to starting work. The Trade Partner JSQP will be reviewed and approved by the Pepper Quality Department and the Trade Partner will be required to make revisions as necessary until the document meets the Trade Partner Quality Plan Guidelines.
- 2. **Trade Partner Quality Commitment Letter**: All Trade Partners awarded subcontract agreements shall have a company officer sign the Trade Partner Quality Commitment Letter.
- 3. **Building Enclosure Coordination Meeting**: Pepper Construction leads the building enclosure coordination meeting in an effort compile the expertise of all parties with the goal of reducing field conflicts and warranty claims due to material compatibility, incomplete details, and construction sequencing. This meeting lasts approximately six hours (including lunch) and the Architect is invited to attend. Trade Partners required to attend this meeting include trades with the following scopes of work: CFMF & exterior sheathing, air-vapor barrier, waterproofing, exterior insulation, roofing, curtainwall & windows, and all building skin trades (masonry, EIFS, metal panels, tile, etc.). Pepper's Project Manager will follow up with trades and design team to ensure comments are incorporated into contract documents.
- 4. **Preinstallation Meeting:** Pepper will lead a preinstallation meeting with each Trade Partner prior to starting work. The Trade Partner Project Manager and Foreman (on site) is required to attend this meeting. During this meeting, the team reviews the scope of work, submittals, plans, specifications, manufacturer's requirements, Trade Partner Quality Plan, and lessons learned as applicable. Note that the preinstallation meeting is by scope, not necessarily trade partner (some trade partners will have multiple preinstallation meetings). Preinstallation meetings last approximately one to three hours depending on the complexity of the scope of work.
- 5. Quality Site Visits and Quality Report: The Pepper Quality Department conducts routine site visits review work-in-place for conformance with the plans, specifications, submittals, manufacturer's requirements, and industry standards. Following the site visit, the Pepper Quality Department produces the Quality Report that documents conformance and non-conformance items identified during the site visit. Pepper's Project Team distributes the report to trade partners via email. Timely response to reports is critical to resolving issues quickly before they are covered up. If defects or deficiencies are discovered, Trade Partners are required to provide an initial assessment of the defects/deficiencies within two (2) days, and within seven (7) days Trade Partners shall implement a plan to correct the defects/deficiencies. Trade Partners shall provide photo documentation of the defect/deficiency repair to Pepper. Trade Partners that repeat issues or otherwise demonstrate a lack of expertise or understanding, will be required to participate in any training deemed necessary by Pepper's Director of Quality Management to bring the Trade Partner expertise to a level that will enable them to comply.



Trade Partner Quality Commitment Letter

Pepper Construction is building a culture of quality where project teams and trade partners take ownership of the work and build it right the first time. To take our quality culture to the next level, we are asking our Trade Partners to sign this letter to demonstrate their commitment to Quality.

As a Trade Partner of Pepper Construction, we agree to the following Quality Commitments:

- 1. We will create and abide by a Job Specific Quality Plan (JSQP) following Pepper's *Trade Partner Quality Plan Guidelines*.
- 2. We will partner with Pepper to prevent deficiencies through pre-construction coordination including preinstallation meetings, sequencing meetings, building envelope coordination meetings, and MEP coordination as appropriate for our scope of work.
- 3. We will verify that all components of our work comply with the Contract Documents including applicable building codes, manufacturer's requirements and industry standards. We will request written clarification from Pepper before proceeding to install a product if the manufacturer's instructions or building code conflict with the Contract Documents.
- 4. Prior to installation, we will verify that existing conditions and field measurements match shop drawings, models developed during BIM coordination, contract documents and manufacturer requirements. We will provide written notification to Pepper of any discrepancies.
- 5. We will coordinate our work with Pepper Construction's project team and other trade partners to properly sequence the work, reduce field conflicts, and avoid rework.
- 6. We will train and empower our employees and second-tier trade partners to say something or stop work if they see defective work being installed. We acknowledge that it is our obligation to assure that our second-tier trade partners understand and comply with these quality commitments.
- 7. We will inspect 100% of our installed work as the *Quality Control* portion of our JSQP. We understand that Pepper's *Quality Assurance* site visits are only a spot check and cannot be relied upon to identify all our deficiencies.
- 8. If defects or deficiencies are discovered, we will provide an initial assessment of the defects/deficiencies within two (2) days, and within seven (7) days we will implement a plan to correct the defects/deficiencies. We will provide photo documentation of the defect/deficiency repair to Pepper. If we repeat issues or otherwise demonstrate a lack of expertise or understanding, we will participate in any training deemed necessary by Pepper's Director of Quality Management to bring our company to a level that will enable us to comply.
- 9. We acknowledge that the Indiana Statute of Repose for construction is 10 years from the date of substantial completion. If defects are discovered during the warranty period or the statute of repose, we will partner with Pepper to promptly investigate and provide repair options to the owner.

Project Name:	
Trade Partner Company Name:	
Company Officer Printed Name:	
Company Officer Signature:	BUILDING
Date:	QUALITY AT EVERY LEVE

BIM TRADE COORDINATION PROTOCOL





Trade Coordination Protocol Document

Version 1 All Trades

A. Introduction

Trade partners outlined in this document will participate in a coordination process using 3D modeling. This effort will be a collaborative process in which this team will coordinate their work while generating shop drawings in a three-dimensional virtual environment. This document outlines the process that will be used for coordination of on this project including file requirements, meetings, schedule, coordination areas, and project deliverables.

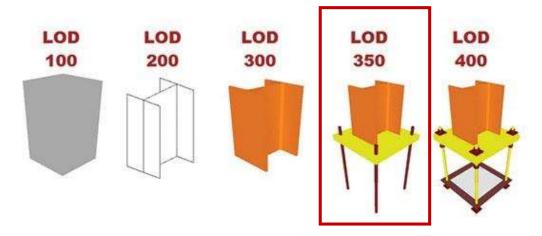
B. Model Requirements

1. Requirements of all models

This section describes the models that will be generated for trade coordination throughout the course of the project. The design team will provide models to be used as a reference, but the trade partners are expected to provide the model(s) for the scopes of work for which they are contracted to perform, unless specifically noted in this document. The table below outlines the minimum requirements for models to be used in coordination. Any elements not included in the model will be the responsibility of the trade partner to coordinate with other trade partners. Any elements intended to be prefabricated shall be modeled to reflect the prefabricated component including any supports, framing, bracing, etc. that will be installed along with the prefabricated component. 3D Modeling for each trade shall generally include, but not necessarily be limited to the items listed in the table below for each of the planned models as part of the scope of work for each trade. Each of the trade partners is responsible for making sure that the contents of the model represent a complete system and that tolerance for system access and maintenance along with insulation are included where appropriate. If there is any confusion about the requirements in the tables below, please contact the project model manager.

All coordination models must be model to a minimum Level Of Development 350 standards unless noted otherwise. Which states "The Model Element is graphically represented within the Model as a specific system, object, or assembly in terms of quantity, size, shape, orientation, and interfaces with other building systems".

If you would like more info on LOD please visit http://bimforum.org/lod/



2. Required Models and Responsibility

Model Name	File Name Abbrev.	Model Content	Authoring Company	Required Authoring Tool		
Design Models						
Revit File Name Format Example: 2024022_STRUCT_V24.rvt						
Navisworks File Name Format Example: BCSC_D_Mech.nwc						
Architectural Model	ARCH	Design intent model for architectural building components. This model is available for reference. Not all components may be shown.	CSO	Revit 2024		

Structural Model	STRUCT	Design intent model for structural steel and concrete building components. This model is available for reference. Not all components may be shown.	LНВ	Revit 2024
Mechanical, Electrical, Plumbing	MEP	Design intent mechanical, electrical and plumbing model. This model is available for reference. Not all components may be shown.	RE Diamond	Revit 2024
Furniture	FURNITURE	Design intent electrical. This model is available for reference. Not all components may be shown.	CSO	Revit 2024
Food Service	FOOD	Design intent food service. This model is available for reference. Not all components may be shown	CSO	Revit 2024
Telecom Model	TECH	Design intent telecom model. This model is available for reference. Not all components may be shown.	RE Diamond	Revit 2024
Trade Partner Mod	els			
Revit File Name Fo	ormat Example: BCSC	C_C_MECH.rvt		
Navisworks File Na	ame Format Example:	BCSC_C_MECH.nwc		
Steel Model	STEEL	Coordination, fabrication, and installation model consisting of steel columns, framing, bracing, stairs, and new structural supports as outlined in the Discipline Specific Model Requirements.	Structural Steel Fabricator	.ifc
Concrete Model	CONC	Coordination model consisting of foundations, cast- in-place walls, and sheer walls as outlined in the Discipline Specific Model Requirements.	Concrete Trade Partner	Revit 2024
Precast Model	PRECAST	Coordination, fabrication, and installation model consisting of all precast components as outlined in the Discipline Specific Model Requirements.	Precast Trade Partner	Revit 2024
Plumbing Model	PLUMB	Coordination, fabrication, and installation model consisting of plumbing piping, systems, fixtures, equipment, and other components as outlined in the Discipline Specific Model Requirements.	Plumbing Trade Partner	Revit 2024
Mechanical Piping Model	MP	Coordination, fabrication, and installation model consisting of mechanical piping, systems, equipment and other components as outlined in the Discipline Specific Model Requirements.	Mechanical Piping Trade Partner	Revit 2024
Electrical Model	ELEC	Coordination, fabrication, and installation model consisting of electrical systems, conduit, cable tray, light fixtures, equipment, and other components as outlined in the Discipline Specific Model Requirements.	Electrical Trade Partner	Revit 2024
Technology Model	TECH	Coordination, fabrication, and installation model consisting of technology systems, conduit, cable tray, equipment and other components as outlined in the Discipline Specific Model Requirements.	Technology Trade Partner	Revit 2024
HVAC Model	HVAC	Coordination, fabrication, and installation model consisting of ductwork, equipment and other components as outlined in Discipline Specific Model Requirements.	HVAC Trade Partner	Revit 2024
Framing Model	FRAME	Coordination and installation model consisting of framing components as outlined in the Discipline Specific Model Requirements.	Framing Trade Partner	Revit 2024
Supplemental Model	SUPP	This model will include any additional model geometry needed for overhead coordination that is not being modeled by the design team or any trade partners.	Pepper Construction	Revit 2024
Site Utilities	SITE	This model will contain existing and new site utilities that are part of the site / civil trade partner's scope of work and are outside of the building footprint.	Pepper Construction	Revit 2024



3. Discipline-Specific Model Requirements

The Model Element table below reflects **project specific requirements** of what is to be modeled.

Model Name	Component	LOD	File Name Abbrev.
Trade Pa	rtner Models		
Steel Mo	del		
	Steel Framing	350	Model all columns, beams, trusses, and joist framing. Include anchor bolt locations. Include slopes on framing members as noted on contract documents. Model all pipe arbors and associated foundations.
	Bracing	350	Model all connections and additional bracing including k-braces and gussets plates.
	Dunnage Steel and Grating	300	Model all dunnage steel and grating to accurate size and location. Include accurate size and locations for grating openings.
	Stairs	300	Treads, risers, landings, and support structure associated with stairs
	Additional Steel	350	Include all angles, channels, plates, and structural elements required to frame around openings or support equipment
Concrete	Model		
	Foundations	300	All perimeter foundations, pad footings, grade beams, concrete walls required to be modeled to accurate dimensions and locations. Reinforcement is not required to be modeled. Sleeve locations shall be provided by the MEP trade partners as needed and incorporated into the concrete model for coordination/validation prior to installation.
	Walls	300	All sheer walls, concrete shaft walls, and cast-in-place walls etc. shall be modeled to accurate dimensions and locations. Reinforcement is not required to be modeled. Sleeve locations shall be provided by the MEP trade partners as needed and incorporated into the concrete model for coordination/validation prior to installation. Embed locations shall be modeled and coordinated with steel fabrication model and other trades as needed.
	Anchor Bolts	350	All anchor bolts to accurate size and location based on understanding of anchor bolt locations from anchor bolt shop drawings. This model will be overlaid with steel fabrication model to ensure anchor bolt locations are coordinated.
Precast N	Mode l		
	Walls	300	All precast walls shall be modeled to accurate size and dimension with accurate embed sizes and locations.
	Deadmen	300	All precast deadmen shall be modeled to accurate size and location.
	Bracing	300	All temporary precast bracing shall be modeled to accurate size and location.
	Openings	300	All openings for architectural, structural, or MEP systems to accurate size and location.
	Reinforcement	350	All reinforcement including but not limited to rebar, strands and embeds.
Plumbing	Model		
	Piping and Components	350	All piping is required to be modeled regardless of size including, vent, sanitary, storm, and domestic water. Leak detection systems requiring access are required to be modeled at minimum with a no-fly zone. Piping that requires slope should be modeled with slope according to project specifications. If double containment systems are required, they are required to be modeled to correct outside diameter. This shall include all underground systems and utilities that run underground from point of service to the building.
	Underground Piping	350	Modeling of all underground piping that is directly buried or within a tunnel. Coordinate elevations with any tie-ins to existing and other systems that are routed underground. Modeled piping outside diameter should match submittal data including insulation and outer jacket. Underground piping for sanitary and storm systems should include cleanout locations coordinated with architectural and equipment layout for the floor above.
	In-wall Piping	350	Modeling of all in-wall piping, including coordination with stud framing and other in-wall systems or components such as blocking. Model should include means of support as needed to secure piping within the wall cavity. Carriers for toilets and sinks are required to be included. Outlets for medical gas connections are required to be modeled. Surface mounted piping and connections are required to be modeled.



	System Designation	350	Piping modeled is required to be designated by system type either by workset or layer. Piping
			designations should be represented within the file and each component modeled should have that designation included as part of the geometry
	Insulation	350	Insulation is required to be modeled in accordance with project specifications, by system type and pipe diameter.
	Hangers and Supports	350	Hangers and supports for piping components are required to be modeled including roller hangers, guides, and seismic bracing. All supports that need to trapeze other trade partners shall be modeled, including Unistrut, angle, or channel supports. Where supplemental steel is needed to span between structural members (for instance at a roof deck that isn't poured), those supplemental steel members are required to be modeled. Coordinate hanging locations with structural requirements. Where systems are suspended from a prefabricated rack or part of a prefabricated assembly, the trade partner responsible for the system (not the prefabricated rack) is required to model the hangers for their system.
	Valves and Components	350	All valves are required to be modeled. At each valve location where there is a valve, no-fly zones should be represented for clearance and to access the valve and turn the handle. No-fly zones should extend to below the ceiling elevation where they are concealed above finished ceilings.
	Equipment	350	Models should include pumps, water softeners, water heaters, expansion tanks and pressure vessels, and backflow preventers according to actual size per approved submittals. Models should be provided by manufacturer if available. Include no-fly zones as needed to access and maintain equipment. Any structure, slabs, or pads required for equipment shall be modeled to correct size and location.
	Fixtures	350	Plumbing fixtures are required to be modeled according to actual fixtures submitted. Include sinks, toilets, drinking fountains, eyewash stations and other fixtures as noted on the contract documents. Model and connect plumbing piping to each fixture, including in walls. Model carriers in walls for toilets and verify wall depth dimensions will allow for proper installation
Mechanic	cal Piping Model		
	Piping and Components	350	All piping is required to be modeled regardless of size including, chilled water, heating water, steam, condensate, and natural gas. Leak detection systems requiring access are required to be modeled at minimum with a no-fly zone. Piping that requires slope should be modeled with slope according to project specifications. If double containment systems are required, they are required to be modeled to correct outside diameter. This shall include all underground systems and utilities that run underground from point of service to the building.
	Underground Piping	350	Modeling of all underground piping that is directly buried or within a tunnel is required. Coordinate elevations with any tie-ins to existing and other systems that are routed underground. Modeled piping outside diameter should match submittal data including insulation and outer jacket. This shall include all underground systems and utilities that run underground from point of service to the building.
	In-wall Piping	350	Modeling of all in-wall piping, including coordination with stud framing and other in-wall systems or components such as blocking. Model should include means of support as needed to secure piping within the wall cavity
	System Designation	350	Piping modeled is required to be designated by system type either by workset or layer. Piping designations should be represented within the file and each component modeled should have that designation included as part of the geometry
	Insulation	350	Insulation is required to be modeled in accordance with project specifications, by system type and pipe diameter.
	Hangers and Supports	350	Hangers and supports for piping components are required to be modeled including roller hangers, guides, and seismic bracing. All supports that need to trapeze other trade partners shall be modeled, including Unistrut, angle, or channel supports. Where supplemental steel is needed to span between structural members (for instance at a roof deck that isn't poured), those supplemental steel members are required to be modeled. Coordinate hanging locations with structural requirements. Where systems are suspended from a prefabricated rack or part of a prefabricated assembly, the trade partner responsible for the system (not the prefabricated rack) is required to model the hangers for their system.
	Valves and Components	350	All valves are required to be modeled. At each valve location where there is a valve, no-fly zones should be represented for clearance and to access the valve and turn the handle. No-fly zones should extend to below the ceiling elevation where they are concealed above finished ceilings. At steam PRV locations, model piping to represent actual installed length of assembly. Valve and strainer assemblies for VAV box locations don't need to be modeled, but should account for access during the coordination process
	Mechanical and Plumbing Equipment	350	Chillers, boilers, expansion tanks, cooling towers, condensate receivers, condensers, compressors, heat exchangers, Chilled beam units, VRF, unit heaters, fan coil units, and humidifiers, and blower coil units and all other equipment as a part of this scopeEquipment models should represent actual size of equipment and correct locations for system connections. No-fly zones for areas that require access for installation or maintenance are required to be modeled. Any structure, slabs, or pads required for equipment shall be modeled to correct size and location.
	Slab Penetrations	350	All slab penetrations shall be modeled to accurate size and location. This information shall be utilized to place sleeves in the concrete slab prior to concrete pour where applicable.
	Wall Penetrations	350	All wall penetrations shall be modeled to accurate size and location. This information shall be utilized to place sleeves in precast panels or concrete cast-in-place walls prior to concrete pour where applicable.
Electrical	Model		



	Danner Distribut	252	Modeling of all distribution equipment is required, including but not be itself to electrical acceleration.
	Power Distribution	350	Modeling of all distribution equipment is required, including but not limited to electrical panels, distribution switchgear, transformers, ATS, etc Include no fly-zones to represent areas where other trade partners cannot be routed (ie. Overhead 6' clear of panels and in front 3' of panels). Equipment that is modeled should be based on actual size of equipment that will be installed. Any system(s) designed to extend beyond the building line are to be modeled up to the connection point indicated in the Contract Documents or 5'-0" outside the building perimeter if information is not indicated. This shall include all underground systems. Any structure, slabs, or pads required for equipment shall be modeled to correct size and location.
	Emergency Generators	350	Model all components of emergency generators including day tanks. Models should be provided by manufacturer if available. Include no-fly zones as needed to access and maintain equipment. Provide cut sheets and shop drawings to other trade partners to provide models of duct and piping connections, for example exhaust and muffler/silencer duct components and fuel piping connections. Any structure, slabs, or pads required for equipment shall be modeled to correct size and location.
	Conduit	400	Model all conduit that is 1" or larger or shares a rack with other conduit. Conduit should be modeled from the point of distribution to the home run box with all pull boxes / condolets modeled per specified requirements. Conduit that is in a rack should be modeled as conduit and NOT as a generic shape. Any supports or hangers associated with the conduit rack shall be modeled accurately.
	Bus Duct	350	Model all bus duct regardless of size. Include no-fly zones as needed to access and maintain bus duct.
	In-wall Electrical	350	In wall electrical conduits greater than 1/2" and raceways shall be modeled.
	Hangers and Supports	350	Hangers and supports for all elements above are required to be modeled and will be coordinated in federated model in all areas. Model all seismic bracing as required by specifications and according to seismic zone definitions outlined in project plans and specs. Model any additional Unistrut required for connection to structure. Coordinate hanging locations with structural requirements. Where systems are suspended from a prefabricated rack or part of a prefabricated assembly, the trade partner responsible for the system (not the prefabricated rack) is required to model the hangers for their system.
	Cable Tray	350	Model all cable tray and low voltage raceways. Cable tray should include an area that represents a no-fly zone for access to the tray for pulling wire. Supports for the cable tray should be included in the model. Areas where cable tray passes over inaccessible ceilings should be reviewed with the design team and may require equivalent conduit in lieu of tray.
	Lighting	350	Light fixtures to be modeled with appropriate clearance height dimensions above the ceiling as required to access and maintain each type of light fixture. Include no-fly zones as needed to access and maintain fixtures.
	Temporary Lighting	350	All temporary lighting fixtures shall be modeled in-place and incorporated in the federated model as a part of the coordination process. The trade partner responsible for temporary lighting shall install temporary lighting fixtures per the coordinated model.
	Slab Penetrations	350	All slab penetrations shall be modeled to accurate size and location. This information shall be utilized to place sleeves in the concrete slab prior to concrete pour where applicable.
	Access Zones	350	Model an access zone for ALL locations in which access is required. This includes but is not limited to the following: pull boxes, junction boxes, condolets, etc) The access zones shall be models in such a way as to facilitate the coordination of other systems around the necessary zones.
Technolo	gy Model		
	Equipment	350	All equipment including hangers, access, structural supports, maintenance clearance shall be modeled. Any structure, slabs, or pads required for equipment shall be modeled to correct size and location.
	Conduit	400	Model all conduit that is 1" or larger or shares a rack with other conduit. Conduit should be modeled from the point of distribution to the home run box with all pull boxes / condolets modeled per specified requirements. Conduit that is in a rack should be modeled as conduit and NOT as a generic shape. Any supports or hangers associated with the conduit rack shall be modeled accurately.
	Hangers and Supports	350	Hangers and supports for all elements above are required to be modeled and will be coordinated in federated model in all areas. Model all seismic bracing as required by specifications and according to seismic zone definitions outlined in project plans and specs. Model any additional Unistrut required for connection to structure. Coordinate hanging locations with structural requirements. Where systems are suspended from a prefabricated rack or part of a prefabricated assembly, the trade partner responsible for the system (not the prefabricated rack) is required to model the hangers for their system.
	Cable Tray	350	Model all cable tray and low voltage raceways. Cable tray should include an area that represents a no-fly zone for access to the tray for pulling wire. Supports for the cable tray should be included in the model. Areas where cable tray passes over inaccessible ceilings should be reviewed with the design team and may require equivalent conduit in lieu of tray.
	In-wall Technology	350	In wall electrical conduits greater than 1/2" and raceways shall be modeled.
	Slab Penetrations	350	All slab penetrations shall be modeled to accurate size and location. This information shall be utilized to place sleeves in the concrete slab prior to concrete pour where applicable.
HVAC Mo	del		



	Ductwork	350	All ductwork is required to be modeled including metal ducts, flexible ducts, and fabric duct systems. Low exhaust and return that is located within a chase wall is required to be modeled. Insulation is required to be modeled on ductwork and shall be accounted for in coordination. Ductwork requiring slope shall be modeled as specified and/or per SMACNA requirements. Coordinate all termination locations with equipment.
	Equipment	350	Model all equipment being provided including fans, terminal boxes, fan coil units, etc If another trade partner is providing equipment, but duct is connecting to it, the sheet metal trade partner should include modeling of that equipment and/or locating and coordinating it with structure and other disciplines. If available, equipment models should be provided by the manufacturer to ensure connections are in the proper location. For AHU's and RTU's. all door swings and coil access areas should be modeled as a no-fly zone to block out that area during the coordination process. VAV, CAV and air valves shall include no-fly zones as needed to properly access and maintain the equipment. No-fly zones should extend to finished floor for coordination with casework and other building elements. Any structure, slabs, or pads required for equipment shall be modeled to correct size and location.
	Terminal Devices	350	Model all grilles, registers, and diffusers. Model components used in coordination should be based on the approved submittal. Architectural reflected ceiling drawings shall be used as the basis for grille, register, and diffuser locations unless otherwise directed. Locations where rated grilles are needed should be coordinated with architectural drawings. The HVAC Ductwork trade partner shall review locations where other systems are routed to confirm that connections at the neck of a diffuser or grille is feasible and doesn't restrict airflow. Avoid short-circuit of airflow by locating diffusers for supply away from exhaust and return grilles.
	Fire and Smoke Dampers	350	Dampers shall include no-fly zones as needed for proper access for inspection and maintenance. It is trade partner's responsibility to coordinate all damper locations with rated assemblies. No-fly zones should extend to finished floor where applicable for coordination with casework and other building elements. Locations with actuators should include a no-fly zone to confirm the motor is accessible and that the full stroke of the actuator doesn't conflict with another trade.
	Duct Access Doors 35 Hoods 35 Plenums and Louvers 35 Hangers and Supports 35		Model a no-fly zone in areas where duct access doors will be located. Locate doors in areas that are easily accessed without removal of lights or other systems.
			Model all hoods. Cut sheets (pdf) of hoods provided by others will be provided. Modeling and coordination of the hood should be included as part of the sheet metal trade partner's scope.
			Model all outdoor air and relief/exhaust air plenums per specifications for wall thickness requirements. Plenums should include access for door swing if applicable and connections to louver should be coordinated with architectural drawings. Models of louvers should be coordinated with exterior elevation drawings and validate that free air requirements are achievable. Model all components requiring access for maintenance (motors and actuators) including no-fly zones. Coordinate framed openings with structure and architecture and confirm mounting requirements for louvers do not require additional support.
			Hangers and supports for all duct and equipment above are required to be modeled. Model all curb supports for coordination with structural framing and openings for duct connections to the equipment. Include modeling of supports for vertical risers in shafts and coordinate support locations with other trade partners that are also located in and around the shaft. Model all seismic bracing as required by specifications and according to seismic zone definitions outlined in project plans and specs. Model any additional Unistrut required for connection to structure. Coordinate hanging locations with structural requirements. Where systems are suspended from a prefabricated rack or part of a prefabricated assembly, the trade partner responsible for the system (not the prefabricated rack) is required to model the hangers for their system.
	Slab Penetrations	350	All slab penetrations shall be modeled to accurate size and location. This information shall be utilized to place sleeves in the concrete slab prior to concrete pour where applicable.
	Framing Members	350	Model all racking components to accurate size and location.
	Hangers and Supports	350	Hangers and supports for all racking systems are required to be modeled. Model all seismic bracing as required by specifications and according to seismic zone definitions outlined in project plans and specs. Coordinate hanging locations with structural requirements.
Framing	Model		
	Kingstuds and Corner Studs	350	Model all kingstuds at door frames to represent locations where routing of overhead systems should be avoided. Model all corner studs where stud location is critical to ensure wall framing integrity. Where a header or bracing is needed at these locations, if a conflict is unavoidable, model the header at an elevation where it will be installed without conflicting with another trade.
	Top of Wall 350		Model should be created for top of wall conditions to ensure proper rating can be achieved and MEP systems are not conflicting with this system.
	Bulkhead Framing	350	Model all bulkhead shapes as needed to coordinate with other trade partners. Vertical stud framing and kickers need to be represented to ensure that MEP trade partners are located in a way that allows for the proper support of the bulkhead. Coordination of bulkhead framing with MEP trade partners should be included as part of the modeling and coordination process
	Exterior Framing Kickers	350	All framing that extends into the building and is above the ceiling is required to be modeled with accurate stud/track sizes, dimensions, straps, bracing, etc. The kicker angle shall be consistent with how it will be installed in the field.



	Bottom of Shaft Enclosures	300	Model bottom of shaft enclosure with the appropriate thickness that represents the framing and drywall to be installed.
Supplem	ental Model		
	Supplemental Components	300	Model any building elements required for spatial MEP Coordination
Site Utilit	ies Model		
	Site Utilities	350	Model all new and existing site utility piping and elements at accurate size and location
	Site Structures and Manholes	350	Model all new and existing site utility structures and manholes at accurate size and location

C. Process Overview

1. Develop Preliminary Shop Drawings / 3D Models

Each participating trade partner will be required to develop design / coordination drawings by creating a 3D model which includes all system components respective to their scope of work. Trade partners shall provide this 3D model, with contents as outlined in this document for use in coordination.

2. Assemble Federated Model and Begin Clash Detection

Pepper Construction Company (Pepper) will integrate the architectural, MEP, and any other required models into a federated 3D model for design review and clash detection. Each firm should post their respective files regularly and should review the federated model for conformance to design specifications. Pepper will regularly perform clash detection and post the latest .nwf/.nwd model to the project file sharing site.

The following hierarchy will be used as a general standard for resolving clashes:

Priority	Building Systems
1	Structural / Architectural Components
2	Owner Equipment and Required Clearances
3	MEP Equipment
4	Sheet Metal Ductwork and Gravity Piping
5	Pressurized Piping, Fire Protection Branch Piping, Electrical Conduit

3. Collaboration with Design Team

The coordination team will meet regularly either in person or via web conference as necessary. These meetings will be to review the conflicts within the model between trade partners and to address design, constructability, and coordination issues. If the process of coordination necessitates a request for changing or altering the design, those changes must be documented through the project RFI process. Additional meetings with the design team may be scheduled to help facilitate and expedite a resolution.

While Pepper will convert architectural models into Navisworks format as changes are made available, it is each trade partner's responsibility to review conflicts identified through the coordination process with the most current contract documents to ensure that conflicts correlate with most current designed conditions.

4. Involve Field Personnel

Field personnel from each firm will need to review the model and design documents to provide feedback and further ensure constructability prior to signoff in an area.

5. Signoff

Following the completion of coordination of a floor or defined coordination area, the team will engage in a signoff process where each firm acknowledges and agrees to their final layout and location of systems. This model will be the basis for installation. The team will signoff on a coordinated NWD model that will be posted to the project collaboration site.

6. Post Signoff Modeling and Coordination Requirements



Immediately following signoff and as outlined in the coordination schedule, trade partners shall create shop drawings for submission to Pepper and the design team. Shop drawings must follow specified requirements and specs for the project. If no requirements provided, shop drawings must depict all components associated with the coordinated system. At minimum, shop drawings should show structural grid, architectural floor plan or RCP background, system components, dimensions off of structural grid and elevations required for field installation, maintenance and system clearances, system and equipment tags. Any fabrication or installation done prior to receiving shop drawing approval from Pepper and the design team is done at the risk of the trade partner.

It is the responsibility of the trade partner to ensure that all model content represents the systems and equipment that are going to be installed. If, at the time of signoff, model geometry does not represent what is going to be installed, the trade partner must notify Pepper at time of signoff. It will be the responsibility of the trade partner to update their model to reflect systems and equipment that are going to be installed and to notify Pepper of any coordination discrepancies immediately.

D. Coordination Requirements

- 1. Trade partners shall show all of their respective system components and/or equipment in their 3D models. MEP building elements that are modeled shall take precedence over MEP building elements that are not modeled. MEP building elements that are not modeled shall be installed in such a way that they create no conflict or installation issues with modeled MEP building elements. Resolution of any issues that arise in the field as a result of the installation of non-modeled MEP building elements shall be the responsibility of the trade partner who installed the non-modeled element.
- Trade partners are required to review their respective model content and ensure there are no conflicts with structural model elements prior to initial submission to Pepper for inclusion in the federated model (i.e. clear all beams, columns and other structural components) maintaining all required vertical and horizontal clearances, as specified.
- 3. Any system components or attributes appearing on contract documents but not included in the model will be the trade partner's responsibility to coordinate in the field.
- 4. It is each trade partner's responsibility to coordinate their work in accordance with the contract documents. At any point there is a discrepancy between the model and the contract documents, the contract documents shall take precedence. Design models may be provided to the trade partners as a reference but do not take precedence over the contract documents.
- 5. Model elements included in trade partner models shall consider all future installations of building systems in the routing and placement of systems and components associated with their scope of work in coordination.
- 6. All model elements should have a parameter that indicates which "phase" of the project that system or element will be installed.
- 7. The BIM coordination process requires trade partners to submit models that represent a complete model of their respective trade and do not degrade the design intent or performance of building systems.
- 8. Each trade partner shall anticipate the interrelationship of trade partners and other trade partners so work can be performed in manner that minimizes interference with respect to system layout and sequencing of activities.
- 9. Each contractor may be required by Pepper supervision to provide layout information in the field pertinent to their trade to help facilitate the layout and construction of other trades in the field.
- 10. The BIM Coordination process shall not be the basis for contract adjustment or change order.
- 11. It is the responsibility of each trade partner to coordinate connections to all building equipment.
- 12. All additional quantities of material beyond what is inferred on the drawings that is required to complete work in place is part of the trade partner's bid price and contract.
- 13. During the construction of the project, there may be requirements to make field modifications of building systems being installed. These modifications shall be updated in the model within (14) days of the field modification. The trade partner shall immediately notify Pepper Construction in writing that an adjustment has been made.
- 14. Trade partners are expected to complete BIM Coordination in accordance with the overall project schedule and allocate resources as needed to comply with work activities as required to execute the work.
- 15. Trade partners are expected to attend 3D trade coordination meetings per the table below at a minimum.

Trade	Kickoff Meeting			Regular Coordination Meetings			As Needed Meetings			Sign Off and Field Review Meetings		
Personnel	ВІМ	РМ	FIELD	ВІМ	РМ	FIELD	ВІМ	PM	FIELD	ВІМ	PM	FIELD



Trade Partners	Trade Partners											
Structural Steel Fabricator							х	х	Х			
Concrete Trade Partner							Х	Х	Х			
Precast Trade Partner							Х	Х	Х			
HVAC Trade Partner	Х	Х		Х			Х	Х	Х	Х	Х	Х
Mechanical Piping Trade Partner	Х	Х		х			х	х	Х	х	х	х
Plumbing Trade Partner	Х	Х		Х			Х	Х	Х	Х	Х	Х
Electrical Trade Partner	Х	Х		Х			Х	Х	Х	Х	Х	Х
Telecom Trade Partner	Х	Х		Х			Х	Х	Х	Х	Х	Х
Fire Protection Trade Partner	x	х		х			х	х	Х	х	х	х
Framing Trade Partner	Х	Х		Х	Х		Х	Х	Х	х	Х	Х
Technology Trade Partner	X	Х		Х			х	х	Х	X	х	Х

E. Resources and Support

1. Pepper will provide a Project Model Manager to the project. The Project Model Manager will be responsible for compiling the federated model, performing clash detection, compiling clash reports, and facilitating the coordination meetings. The Project Model Manager will be the coordination team's liaison with the design team in communicating issues that require design team input. The Project Model Manager will have the following responsibilities.

Task
Compile Federated Model
Share Design Team Revit Models
Model Manager to facilitate model during coordination, including clash detection
Management of overall coordination and schedule
Facilitate sign-off process

F. Requirements for 3D Models and File Uploads

1. General Requirements

The files submitted to Pepper need to be in a format that can be opened and displayed in Autodesk® Navisworks 2021. Please refer to the <u>Supported File Formats and Applications</u> area on Autodesk's® website for a complete listing of the various formats that are supported by Navisworks.

Revit models must be version 2021 unless otherwise approved. No one shall upgrade to a new version of Revit without the approval of all team members at the direction of Pepper.

The 3D models have to consist of 3D solids (not lines or wire frames) that represent the actual dimensions of the building elements and the equipment that will be installed on the project. Reasonable abstractions can be made, but have to be coordinated. The abstractions have to allow meaningful coordination and clash detection. The global coordinate system of the submitted files has to follow the coordinate system used by the architect.

In general, the following model structure and features will be required:

- 1. One native file and one .nwc file per trade per area.
- 2. Each trade partner may choose layer names. The layers have to structure the scope of the work in a meaningful way. (i.e. Supply, Return, Hangers all on separate layers)
- 3. The geometry of identical 3D elements contained in different files has to agree when the elements of the different files are superimposed.



- 4. Colors, file naming, and layer naming have to remain consistent.
- 5. Elements of the building must be represented in only one file. There must be no overlap of elements of different files.
- 6. Trade partners will be responsible to provide appropriate object enablers to Pepper for viewing of the trade partner's models in their native drawing format.
- 7. All parties shall provide models with a scope representing a level of detail greater than or equal to what is typically drawn on 2D plans. Greater level of detail may be needed to include all the required model elements. Refer to the Discipline Specific Model Requirements section.

Pepper will archive the coordination progress by posting .NWD files to the Project Collaboration Site for the team to review. These files are viewable with Navisworks Freedom. This application is free to download from the Autodesk® website. http://usa.autodesk.com.

2. File Upload Requirements

- 1. Prior to first upload, files should be pre-coordinated for same system clashes, structural steel clashes, and clearances above ceilings.
- Each trade partner is responsible to elevate their models to the correct elevation defined as the Model Reference Point.
- Clean drawings in the following ways:
 - a. Hide text
 - b. Remove any 2D lines
 - c. Remove all X-References
 - d. Purge all model content loaded into the file that is not being used or referenced
- 4. Post both native and .NWC files to the Project Collaboration Site, at a minimum, 4 hours before the scheduled coordination meeting time. Timing will be established by Model Manager after each meeting.
- 5. Access spaces required by codes and for maintenance should be represented as objects in a model. The objects representing access spaces should be on separate layers for each system.

G. Project Collaboration Site

- 1. Autodesk Construction Cloud (ACC) will be Pepper's collaboration solution for managing documents, data, and design information with distributed teams. Once the project's team members are setup in the system a notification will be sent with login credentials and information on accessing this site.
- 2. All Navisworks file sharing will be done via ACC. One representative per discipline will be provided access to the site, more can be added as necessary.

H. Coordination Meetings

1. Preliminary Coordination Meeting

Date:	TBD
Time:	TBD
Location:	TBD

- a. Pepper will demonstrate clash detection within Navisworks and its utilization for the project, answer any questions or concerns regarding all aspects of the 3D modeling and coordination process, and make recommendations as needed.
- b. Model geometry should be clash free within the same system and with structure and should be located above ceilings and within walls and bulkheads as required. Areas where meeting these constraints are not feasible should be noted by the trade partner and discussed in the meeting.

2. Regular Coordination meetings

Location: Microsoft Teams Meetings

Frequency: Additional coordination meetings will be held as needed at the discretion of the

Model Manager in order to meet the coordination schedule and ultimately the overall project schedule. Anticipate anywhere between 2-3 meetings per week as a general rule. Meetings may be held via web and tele-conferencing at the



discretion of the Model Manager. Meetings may also need to be held on site at the discretion of the Model Manager.

I. 3D BIM Coordination Schedule

A specific schedule for 3D BIM coordination will be released in a later version of the Coordination Protocol Document. Coordination will need to be completed in advance of construction commencing and in time for material to be fabricated to meet the project schedule.

J. Digital Deliverable and As-Built Requirements

Project Specific	Requirements	Required Y/N		
Trade partners process.	are responsible for providing models that reflect "As-Built" conditions at the completion of t	he coord	ination	
File Format	Native File (ie. Revit or other software that trade partner used for model creation as outlined in Section 2 above and in the Model Deliverable Matrix.)	Υ		
	Navisworks .nwc files	Υ		



DOCUMENT 00 72 17 - UUDP (Underground Utility Damage Prevention) AS-BUILT REQUIREMENTS

ALL SUBCONTRACTORS PERFORMING ANY AND ALL UNDERGROUND UTILITY ACTIVITIES MUST FOLLOW THIS DOCUMENT (NO EXCEPTIONS)

- 1. Documentation of New Utilities
 - a. Contractors responsible for the installation of underground utilities on the project shall provide as-built information as outlined below. This information will be utilized to update the 3D model of new utilities to provide an accurate as-built deliverable to the client. Each contractor performing underground utility work is responsible to coordinate providing this information in accordance with the project schedule and ensuring the appropriate information is captured and delivered to Pepper Construction
 - i. Newly installed utilities as a part of the contractor's scope of work shall be surveyed prior to backfill of utility as follows
 - 1. Capture top of utility elevation
 - 2. Document size of utility at each survey point within the CAD file
 - 3. Document type of utility
 - ii. Utilities shall be surveyed at the following frequency
 - 1. At the start and end of each utility run
 - 2. At each change in direction of the utility and/or at each tie in to new or existing structures
 - 3. At each change in elevation of the utility (excluding changes in elevation due to gravity slope of piping)
 - iii. Information shall be provided in a format as follows:
 - 1. Information can be generated using AutoCAD, Civil 3D, or similar
 - 2. Information shall be delivered in the .dwg file extension version 2010 or newer
 - 3. Coordinate System of CAD file to be in accordance with the State Plan Coordinate system.
 - 4. Points shall be represented by linework in the CAD file as follows
 - a. Points shall be represented with physical linework or Civil 3D points
 - b. Points shall be shown at the correct "X, Y, Z" location relative to the project's site CAD file provided by the design team and/or Pepper Construction
 - c. Points shall be accompanied by a text label/annotation clearly noting elevation of top of utility, size of utility, and type of utility
 - d. Points shall be connected by linework to indicate the complete run of the system
 - 5. Points shall be provided in a .csv file format in PENZD format

IDLE EMISSIONS REDUCTION PLAN





Exhibit M1 Idle Emissions Reduction Plan

Project Name:		
PCC Job Number:		
General Contractor	r Designated Plan Manager	
Name:		
Phone:		
Company:		

Idle Emissions Reduction Intent During Construction

The intent of this Idle Emissions Reduction Plan ("Plan") is to minimize the health and climate impacts to local communities from combustion engine emissions associated with construction activities. This Plan is required to be followed by all subcontractors serving the insert name of project ("Project"). This Plan describes best practices to achieve the following:

- Minimize exposure of combustion engine emissions associated with construction activities to construction workers, the Project, and surrounding communities.
- Prevent air pollutants from migrating into occupied spaces, collecting in building systems and on building materials.

Idle Emissions Reduction General Requirements During Construction

- Idling Limitations: Limit unnecessary vehicle and equipment engine idling to no more than 5 minutes indoors and outside to prevent fumes from idling vehicles, equipment, and tools. Signage communicating idling limitations will be placed around the jobsite. Operator communication/education to be included via ToolBox Talks.
- **Prevention of Indoor Air Pollution**: Locate equipment, vehicles, and loading/unloading staging areas away from air intakes or operable openings of adjacent buildings. Locations of equipment staging areas to prevent indoor air pollution will be denoted on the job specific logistics plan.
- Extreme Weather: Idling restrictions will be suspended when temperatures fall outside the range of 40 to 80 degrees Fahrenheit.
- **Field office trailers**: Gas powered generators feeding field office trailers are exempt from this plan.

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Exhibit M1 Idle Emissions Reduction Plan

Personnel and Responsibilities

The following personnel will have primary responsibility for executing and monitoring the Plan throughout construction. Responsibilities are defined as the following:

General Contractor

- Implement this project specific Plan.
- Work with subcontractors to schedule deliveries to reduce idling of delivery vehicles
- Work with subcontractors to schedule activities to minimize the use of fuel powered equipment.
- Overall responsibility for the execution of the plan.
- Resolve disputes related to Plan execution and coordination.

Plan Manager

- Inform all construction personnel of the Plan's goals and procedures.
- Provide opportunities for discussion and feedback to ensure that all construction personnel thoroughly understand the intent and detailed procedures of the Plan.
- Regularly tour the jobsite to supervise and ensure Plan compliance.

Subcontractors

- Carry out requirements of the Plan.
- Sequence work and use work methods that conform to the Plan requirements to reduce idling of vehicles and equipment.

Nonroad Diesel Engines

All engines used on the Project jobsite that are 25 horsepower (HP) or greater must meet the USEPA Tier 4 PM emission standard. Compliance may be met with engines certified to meet the applicable USEPA Tier 4 emission standard AND/OR equipment that has been retrofitted with technology verified to reduce particulate emissions to a level at or more stringent than USEPA Tier 4 emission standard. To the extent that retrofits are used to meet this requirement, the diesel retrofit technology used must be listed on the verified technology list for either the USEPA or the California Air Resources Board current as of the time the equipment is first placed on the jobsite and must be installed and operated as designated by that verified list. <u>Verified Technologies List for Clean Diesel | US EPA.</u>

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