ADDENDUM NO. 2

March 24, 2021

Additions & Renovations to Pleasant Run Elementary School
1800 North Franklin Road
Indianapolis, IN 46219

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications and the Drawings dated February 26, 2021, by CSO Architects. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 2-1 – ADD 2-4, Specification Section 00 31 00 Revised Bid Form, Revised Specification Section 01 23 00 Alternates, CSO Architects Addendum No. 2 dated March 23, 2021, consisting of 5 pages, Revised Specification Section 08 71 00 Door Hardware, Addendum No. 2 Drawings: AD201A, AD201B, AD201C, AD401, A201A, A201C, A203, A211A, A211B, A211C, A405, A407, A501, A503, A602, A611, A800, A801A, A801C, and Context Addendum No. 2, consisting of 2 pages, Addendum Drawings: C101, C501, C504, L500, Department of Public Works Intersection Control Drawing, Revised Specification Section 11 68 00 – Playground Equipment, Revised Specification Section 32 12 16 – Asphalt Paving, Revised Specification Section 32 18 16 – Playground Protective Surfacing, LHB Addendum No. 2, consisting of 1 page, and Addendum Drawing S104, S711, S712, and Stair Associates Addendum No. 2, consisting of 4 pages, and Addendum Drawings: M302, M303, E100, E201A, E201B, E201C, E301, E302, and E303.

A. SPECIFICATION SECTION 00 31 00 – BID FORM

1. Replaced Bid Form Section 00 31 00 with Attached Bid Form Section 00 31 00 included with this Addendum.

B. SPECIFICATION SECTION 01 12 00 – MULTIPLE CONTRACT SUMMARY

1. Paragraph 1.15 Coordination of the Work

Add the following:

B. The corridor ceilings will be removed for overhead installation as necessary during the June-July 2021 time frame. These ceilings will be left open until all overhead work is complete and areas are turned back over to the Owner for occupancy.

C. Contractors should anticipate finish work in the Lobby's and Corridors being completed during second shift and weekends. These premium time costs should be included in the Bids.

D. The existing terrazzo floors are to remain in several areas. Contractors must take appropriate caution and provide adequate projection when moving materials over these floors and when working in these areas.

2. Paragraph 3.03 Bid Categories

A. **Bid Category No. 1 – General Trades**

Add the following Clarifications:

1. Provide both the 4" and 6" Fire Protection Service Lines and the associated PIV and Fire Department connection indicated by Keynotes 37, 38, 39 and 40 on Sheet C501. Both Lines should be brought into the building as indicated on Sheet P200A and turned up and capped 12" above the finished floor slab.
2. Include removal of the ceiling mounted TV Monitors per Demolition Note 44 on the Demolition Plan. This is not Electrical Demolition.
3. Provide reinstallation of the of the existing projection screens per Note 26 on the reflected ceiling Plan.
4. Provide all Blocking other than what is required for installation of the roof system and installed as part of metal stud partitions. Window blocking is a part of the Bid Category No. 1 Scope.
5. Include a total of four mobilizations to complete the Asphalt paving.
6. Provide temporary parking lot striping for all resurfaced and new parking lot spaces.
7. Include a total of 200-man hours at your skilled labor rate (including all fringe benefits and payroll expenses) for work to be performed at the direction of the Construction Manager.

Delete the following Specification:

06 40 00 – Interior Architectural Woodwork

B. **Bid Category No. 2 - Masonry**

Add the following Clarification:

1. For the purpose of bidding assume a total of 100 SGFT to be replaced as described in Demolition Note 52 on the Demolition Drawings.
2. Provide Section 07 21 00 – Thermal Insulation as it applies to the cavity wall insulation.

D. **Bid Category No. 4 - Metal Studs, Drywall & Ceilings**

Add the following Clarifications:

1. Section 07 21 00 – Thermal Insulation apples only to the insulation contained in metal stud framing.
2. The Gypsum Sheathing Joint Treatment outlined in Section 06 16 43 does not apply in areas to receive fluid applied membrane air barriers.
3. In areas where existing wallcovering is being removed this contract shall provide a complete corner to corner plaster skim coat on the walls. Typical of Demolition Notes 27 and 62 on Demolition Plan.
4. Provide the temporary construction partition indicated on the Building Construction Phase Plan issued in Addendum No. 1. Wall should be 8' high, 3 5/8" metal studs, insulated with 1/2" drywall on both sides.
5. Provide only the blocking in metal studs partitions.
6. Include a total of 100-man hours at your skilled carpenter rate (including all fringe benefits and payroll expenses) for work to be performed at the direction of the Construction Manager.

E. **Bid Category No. 5 - Roofing**

Add the following Clarifications:

1. Provide the demolition and capping of the existing skylight as indicated on Demolition Note 60 on the Demolition Plans.
2. Provide the wood blocking required for installation of the roof systems components.

F. **Bid Category No. 6 – Aluminum Windows & Entrances**

Add the following Clarification:

1. Provide new glass stops where existing glazing is shown to be removed and replaced. Typical of Demolition Note 30 on the Demolition Plans.

G. **Bid Category No. 7 - Flooring**

Add the following Clarification:

1. Provide the demolition work outlined in Demolition Note 68 on the Demolition Plans.
2. Provide the floor grinding prep for terrazzo installation as described in Demolition Notes 96 and 97 on the Demolition Plans.

H. **Bid Category No. 8 – Painting:**

Add the following Clarification:

1. Include a total of 100-man hours at your skilled painter rate (including all fringe benefits and payroll expenses) for work to be performed at the direction of the Construction Manager.

I. **Bid Category No. 9 – Casework:**

Add the following Specification Section:

06 40 00 – Interior Architectural Woodwork

J. **Bid Category No. 10 – Fire Protection**

Add the following Clarification:

1. The cost of the cutting and patching outlined in Demolition Note 39 on the Demolition Plan shall be included in this Scope.

K. **Bid Category No. 11 – Plumbing & HVAC**

Add the following Clarification:

1. The existing wall patching and repair required where existing mechanical units are shown to be removed shall be considered cutting and patching and included in this Scope of Work
2. Provide the sheet metal cap shown by Demolition Note 51 on Sheet A201C.

C. **SPECIFICATION SECTION 01 23 00 – ALTERNATES**

1. Replaced Alternate Section 01 23 00 with Attached Alternate Section 01 23 00 included with this Addendum.

CONTRACTOR'S BID FOR PUBLIC WORKS FORM NO. 96

Format (Revised 2013)
(Amended for MSDWT)

Additions & Renovations to Pleasant Run Elementary School

M.S.D. of Warren Township
(Marion County)

PART I

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

Date (month, day, year):_____

BIDDER (Firm) _____

Address _____ P.O. Box _____

City/State/Zip _____

Telephone Number: _____ Email Address: _____

Person to contact regarding this Bid_____

Pursuant to notices given, the undersigned offers to furnish labor and/or materials necessary to complete the public works project of:

_____
Insert Category No. (s) and Name(s)

Of public works project, **Additions & Renovations to Pleasant Run Elementary School**, in accordance with Plans and Specifications prepared by ***CSO Architects, 8831 Keystone Crossing, Indianapolis, IN 46240***, as follows:

BASE BID

For the sum of _____
(Sum in words)

_____DOLLARS ($_____)
(Sum in figures)

The undersigned acknowledges receipt of the following Addenda:
Receipt of Addenda No. (s) _____

PROPOSAL TIME

Bidder agrees that this Bid shall remain in force for a period of sixty (60) consecutive calendar days from the due date, and Bids may be accepted or rejected during this period. Bids not accepted within said sixty (60) consecutive calendar days shall be deemed rejected.

Attended pre-bid conference YES _____ NO_____

Has visited the jobsite YES _____ NO_____

The Bidder has reviewed the Guideline Schedule in Section 01 32 00 and the intent Of the schedule can be met. YES _____ NO_____

Bidder has included their Written Drug Testing Plan that covers all employees of the bidder who will perform work on the public work project and meets or exceeds the requirements set in IC 4-13-18-5 or IC 4-13-18-6. YES _____ NO_____

The Skillman Corporation's diversity initiative is to create a program to encourage, assist and measure the active participation of Minority- Owned, Women-Owned, Veteran – Owned and Disabled Individual-Owned Businesses. The Program is to ensure that MWVDBEs are provided full and equal opportunity to participate in all Skillman Corporation's Projects.

Bidder has included:
DBE: YES _____% NO _____
MBE: YES _____% NO _____
WBE: YES _____% NO _____
VBE: YES _____% NO _____

The undersigned further agrees to furnish a bond or certified check with this Bid for an amount specified in the Notice to Bidders. If Alternate Bids apply, submit a proposal for each in accordance with the Plans and Specifications.

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 bases, 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 on this project if awarded. I understand that violations hereunder may result in forfeiture of contractual payments.

ALTERNATE BIDS

A blank entry or an entry of "No Bid", "N/A", or similar entry on any Alternate will cause the bid to be rejected as non-responsive only if that Alternate is selected. If no change in the bid amount is required, indicate "No Change".

****MARK "ADD" OR "DEDUCT" FOR EACH ALTERNATE****

Alternate Bid No. 1 – Terrazzo Flooring in Corridor B108.

Change the Base Bid the sum of_____
(sum in words)

_____ DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 2 – Provide Temperature Controls by Siemens Industries

Change the Base Bid the sum of_____
(sum in words)

_____ DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 3 – Provide Temperature Controls by Open Controls Systems

Change the Base Bid the sum of_____
(sum in words)

_____ DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 4 – Playground Shade Structure

Change the Base Bid the sum of _____
(sum in words)

_____ DOLLARS ($_____) ADD / DEDUCT
(sum in figures)

Alternate Bid No. 5 – Playground Benches

Change the Base Bid the sum of _____
(sum in words)

_____ DOLLARS ($_____) ADD / DEDUCT
(sum in figures)

PART II

(For projects of $150,000 or more – IC 36-1-12-4)

These statements to be submitted under oath by each bidder with and as a part of his bid. (Attach additional pages for each section as needed.)

SECTION I EXPERIENCE QUESTIONNAIRE

1. What public works projects has your organization completed for the period of one (1) year prior to the date of the current bid?

Contract Amount	Class of Work	Completion Date	Name and Address of Owner

2. What public works projects are now in process of construction by your organization?

Contract Amount	Class of Work	Completion Date	Name and Address of Owner

3. Have you ever failed to complete any work awarded to you?_____If so, where and why?

_____

_____

_____

4. List references from private firms for which you have performed work.

_____

_____

_____

SECTION II PLAN AND EQUIPMENT QUESTIONNAIRE

1. Explain your plan or layout for performing proposed Work. (Examples could include a narrative of when you could begin, complete the project, number of workers, etc. and any other information which you believe would enable the governmental unit to consider your bid.)

2. Please list the names and addresses of all subcontractors (i.e. persons or firms outside your own firm who have performed part of the work) that you have used on public works projects during the past five (5) years along with a brief description of the work done by each subcontractor.

3. If you intend to sublet any portion of the work, state the name and addresses of each subcontractor, equipment to be used by the subcontractor, and whether you will required 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.

4. What equipment do you have available to use for the proposed Project? Any equipment used by subcontractors may also be required to be listed by the governmental unit.

5. Have you 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 corroborate the process 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 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 induce 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 corporations has, have, or will receive directly or indirectly, any rebate, fee, gift, commission, or thing of value on account of such contract.

SECTION 01 23 00 - ALTERNATES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 PURPOSE

A. The Bids for the Alternates described herein are required in order for the Owner to obtain information necessary for the proper consideration of the Project in its entirety.

1.03 ALTERNATES

A. Definitions: Alternates are defined as alternate products, materials, equipment, installations or systems for the Work, which may, at Owner's option and under terms established by Instructions to Bidders, be selected and recorded in the Owner-Contractor Agreement to either supplement or displace corresponding basic requirements of Contract Documents. Alternates may or may not substantially change scope and general character of the Work; and must not be confused with "allowances", "unit prices", "change orders", "substitutions", and other similar provisions.

1.04 SCHEDULE OF ALTERNATES

A. ALTERNATE NO. 1: Provide vitrified resinous matrix terrazzo flooring in lieu of LVT flooring as indicated on Drawing A801B and specification 09 66 23 and 09 66 25 in CORRIDOR B108.

B. ALTERNATE NO. 2: State the amount to be added to the Base Bid to provide Temperature Controls by Siemens Industries. Alternate Bid cost shall include associated Prime Contractor mark-ups. The cost of installation of dampers, pipe wells, control valves and other specified devices shall remain in the Prime Contractors Base Bid. The owner will select one Temperature Control Alternate following post-bid evaluation, and that amount will be included in that contract. Base Bid shall not include the value of the Temperature Control subcontract as specified in Division 23 09 00.

C. ALTERNATE NO. 3: State the amount to be added to the Base Bid to provide Temperature Controls by Open Controls Systems. Alternate Bid cost shall include associated Prime Contractor mark-ups. The cost of installation of dampers, pipe wells, control valves and other specified devices shall remain in the Prime Contractors Base Bid. The owner will select one Temperature Control Alternate following post-bid evaluation, and that amount will be included in that contract. Base Bid shall not include the value of the Temperature Control subcontract as specified in Division 23 09 00.

D. ALTERNATE NO. 4: Labor and Material to Provide the Shade Structure as Shown by F2.2 on Drawing L101.

E. ALTERNATE NO. 5: Labor and Material to Provide the Benches as Shown by F2.1 on Drawing L101

PART 2 - PRODUCTS, PART 3 - EXECUTION (Not Used)

END OF SECTION 01 23 00

SECTION V OATH AND AFFIRMATION

I HEREBY AFFIRM UNDER THE PENALTIES OF PERJURY THAT THE FACTS AND INFORMATION CONTAINED IN THE FOREGOING BID FOR PUBLIC WORKS ARE TRUE AND CORRECT

Dated at _____this _____ day of _____, 20

_____
(Name of Organization)

By
_____

_____
(Title of Person Signing)

ACKNOWLEDGEMENT

STATE OF _____)
) SS:
COUNTY OF _____)

Before me, a Notary Public, personally appeared the above-named
_____

Swore that the statements contained in the foregoing document are true and correct.

Subscribed and sworn to before me this _____ day of _____,
_____
(Title)

_____
Notary Public

My Commission Expires: _____

County of Residence: _____

END OF SECTION 00 31 00

ADDENDUM

CSO
ARCHITECTURE · INTERIOR DESIGN

ADDENDUM NO: 2

BID PACKAGE NO:

PROJECT: PLEASANT RUN ELEMENTARY SCHOOL RENOVATION & ADDITION

PROJECT NO: 2020061 DATE: MARCH 24, 2021 BY: Lisa Roberson

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

Addendum Pages: ADD 1 of 5 Through ADD 5 of 5

Attached Documents:
Specification 08 71 00 – DOOR HARDWARE
Drawing Sheet AD201A – FIRST FLOOR DEMOLITION PLAN – UNIT A
Drawing Sheet AD201B – FIRST FLOOR DEMOLITION PLAN – UNIT B
Drawing Sheet AD201C – FIRST FLOOR DEMOLITION PLAN – UNIT C
Drawing Sheet AD401 – DEMO WALL SECTIONS
Drawing Sheet A201A – FIRST FLOOR PLAN – UNIT A
Drawing Sheet A201C – FIRST FLOOR PLAN – UNIT C
Drawing Sheet A203 – ROOF PLAN
Drawing Sheet A211A – FIRST FLOOR REFLECTED CEILING PLAN – UNIT A
Drawing Sheet A211B – FIRST FLOOR REFLECTED CEILING PLAN – UNIT B
Drawing Sheet A211C – FIRST FLOOR REFLECTED CEILING PLAN – UNIT C
Drawing Sheet A405 – WALL SECTIONS
Drawing Sheet A407 – VERTICAL CIRCULATION SECTIONS AND DETAILS
Drawing Sheet A501 – DOOR SCHEDULE & OPENING ELEVATIONS
Drawing Sheet A503 – DOOR & WINDOW DETAILS
Drawing Sheet A602 – GYM INTERIOR ELEVATIONS
Drawing Sheet A611 – CASEWORK ELEVATIONS
Drawing Sheet A800 – FINISH LEGEND AND INFORMATION
Drawing Sheet A801A – FIRST FLOOR FINISH PLAN – UNIT A
Drawing Sheet A801C – FIRST FLOOR FINISH PLAN – UNIT C
CONTEXT Civil/Site ADDENDUM NO: 2
LHB Structural ADDENDUM #2
STAIR MEP ADDENDUM #2

PART 0 - GENERAL INFORMATION

0.1 NOT USED

PART 1 - BIDDING REQUIREMENTS

1.1 NOT USED

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

PART 2 - SPECIFICATIONS

2.1 SECTION 07 21 00 – THERMAL INSULATION

A. REPLACE line 1.02.A.2 with the following:

1. "2. Not Used".

B. REPLACE paragraph 2.04 with the following:

1. "2.04 NOT USED"

C. REPLACE paragraph 3.06 with the following:

1. "3.06 NOT USED"

2.2 SECTION 08 71 00 – DOOR HARDWARE

A. DELETE entire section and replace with Revised SECTION 08 71 00 – DOOR HARDWARE, attached to this addendum.

2.3 SECTION 08 91 19 – FIXED LOUVERS

A. ADD the following:

"2.03.A.1.j. Pottorff"

2.4 SECTION 10 21 13 – TOILET COMPARTMENTS

A. ADD the following:

"2.02.B.6. ASI Accurate Partitions"

2.5 SECTION 10 22 38 – OPERABLE PANEL PARTITIONS

A. REVISE 2.02.B. to read

"B. Panel Operation: Manually operated, paired panel."

2.6 SECTION 12 32 16 – MANUFACTURED PLASTIC-LAMINATE-FACED CASE4WORK

A. ADD the following:

"2.01.A.5. Midwest Cabinet Solutions"

PART 3 - DRAWINGS

ARCHITECTURAL

3.1 AD201 – OVERALL FIRST FLOOR DEMOLITION PLAN

A. ADD the following to GENERAL DEMOLITION NOTES:

"T. REFER TO UNDERSLAB PLUMBING DRAWINGS FOR SLAB SAWCUT AND PATCH LOCATIONS."

3.2 AD201A – FIRST FLOOR DEMOLITION PLAN – UNIT A

A. DELETE Entire Sheet and REPLACE with Revised Sheet AD201A– FIRST FLOOR DEMOLITION PLAN – UNIT A, attached to this Addendum.

3.3 AD201B – FIRST FLOOR DEMOLITION PLAN – UNIT B

A. DELETE Entire Sheet and REPLACE with Revised Sheet AD201B– FIRST FLOOR DEMOLITION PLAN – UNIT B, attached to this Addendum.

3.4 AD201C – FIRST FLOOR DEMOLITION PLAN – UNIT C AND MEZZANINE

A. DELETE Entire Sheet and REPLACE with Revised Sheet AD201C– FIRST FLOOR DEMOLITION PLAN – UNIT C AND MEZZANINE, attached to this Addendum.

3.5 AD401 – DEMO WALL SECTIONS

A. DELETE Entire Sheet and REPLACE with Revised Sheet AD401 – DEMO WALL SECTIONS

3.6 A201A – FIRST FLOOR PLAN – UNIT A

A. DELETE Entire Sheet and REPLACE with Revised Sheet A201A– FIRST FLOOR PLAN – UNIT A, attached to this Addendum.

3.7 A201C – FIRST FLOOR PLAN – UNIT C

A. DELETE Entire Sheet and REPLACE with Revised Sheet A201C – FIRST FLOOR PLAN – UNIT C, attached to this Addendum.

3.8 A203 – ROOF PLAN

A. DELETE Entire Sheet and REPLACE with Revised Sheet A203 – ROOF PLAN, attached to this Addendum.

3.9 A211A – FIRST FLOOR REFLECTED CEILING PLAN – UNIT A

A. DELETE Entire Sheet and REPLACE with Revised Sheet A211A – FIRST FLOOR REFLECTED CEILING PLAN – UNIT A, attached to this Addendum.

3.10 A211B – FIRST FLOOR REFLECTED CEILING PLAN – UNIT B

A. DELETE Entire Sheet and REPLACE with Revised Sheet A211B – FIRST FLOOR REFLECTED CEILING PLAN – UNIT B, attached to this Addendum.

3.11 A211C – FIRST FLOOR REFLECTED CEILING PLAN – UNIT C

A. DELETE Entire Sheet and REPLACE with Revised Sheet A211C– FIRST FLOOR REFLECTED CEILING PLAN – UNIT C, attached to this Addendum.

3.12 A405 – WALL SECTIONS

A. DELETE Entire Sheet and REPLACE with Revised Sheet A405– WALL SECTIONS, attached to this Addendum.

3.13 A407– VERTICAL CIRCULATION SECTIONS AND DETAILS

A. DELETE Entire Sheet and REPLACE with Revised Sheet A407– VERTICAL CIRCULATION SECTIONS AND DETAILS , attached to this Addendum.

3.14 A501 – DOOR SCHEDULE & OPENING ELEVATIONS

A. DELETE Entire Sheet and REPLACE with Revised Sheet A501 – DOOR SCHEDULE & OPENING ELEVATIONS, attached to this Addendum.

3.15 A503 – DOOR & WINDOW DETAILS

A. DELETE Entire Sheet and REPLACE with Revised Sheet A503 – DOOR & WINDOW DETAILS, attached to this Addendum.

3.16 A600 – CASEWORK AND SPECIALTY EQUIPMENT SCHEDULES

A. SPECIALTY EQUIPMENT SCHEDULE

1. Revise Item OP1 as follows:

   a. "DESCRIPTION: OPERABLE PANEL PARTITION - MANUALLY OPERATED, PAIRED PANEL"

   b. "MANUFACTURER: MODERNFOLD"

   c. "MODEL NO.: 932"

   d. At REMARKS, Add "STC **50"**

2. Revise Item PE8 as follows:

a. "SPEC SECTION: 09 67 66"

3.17 A601 – INTERIOR ELEVATIONS

A. At all elevations with AC1 Acoustic Panels, REVISE T/PANEL to be at elevation +13'-0" A.F.F.

B. At elevation 8/A601, REVISE T/TACKBOARD to be at elevation +7'-6" A.F.F.

3.18 A602 – GYM INTERIOR ELEVATIONS

A. REPLACE Entire Sheet with Revised Sheet A602 – GYM INTERIOR ELEVATIONS, attached to this Addendum.

3.19 A611 – CASEWORK ELEVATIONS

A. REPLACE Entire Sheet with Revised Sheet A611 – CASEWORK ELEVATIONS, attached to this Addendum.

3.20 A800 – FINISH LEGEND AND INFORMATION

A. REPLACE Entire Sheet with Revised Sheet A800 – FINISH LEGEND AND INFORMATION, attached to this Addendum.

B. PLEASE NOTE: GENERAL FINISH NOTES AND KEYED FINISH NOTES REVISIONS APPLY TO ALL DRAWINGS IN THE A800 SERIES.

3.21 A801A – FIRST FLOOR FINISH PLAN – UNIT A

A. REPLACE Entire Sheet with Revised Sheet A801A – FIRST FLOOR FINISH PLAN – UNIT A, attached to this Addendum.

3.22 A801C –FIRST FLOOR FINISH PLAN – UNIT C

A. REPLACE Entire Sheet with Revised Sheet A801C – FIRST FLOOR FINISH PLAN – UNIT C, attached to this Addendum.

PART 4 - OTHER ITEMS

4.1 NOT USED

END ADDENDUM

SECTION 08 71 00 – DOOR HARDWARE

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. Mechanical and electrified door hardware for:

a. Swinging doors.
b. Sliding doors.
c. Gates

2. Electronic access control system components.

B. Exclusions: Unless specifically listed in hardware sets, hardware is not specified in this section for:

1. Windows
2. Cabinets (casework), including locks in cabinets
3. Signage
4. Toilet accessories
5. Overhead and coiling doors
6. Sliding aluminum doors
7. Folding Partitions
8. Chain link and wire mesh doors and gates

C. Related Sections:

1. Division 01 Section “Alternates” for alternates affecting this section.
2. Division 06 Section “Rough Carpentry”
3. Division 06 Section “Finish Carpentry: Installation of Finish Hardware”
4. Division 07 Section “Joint Sealants” for sealant requirements applicable to threshold installation specified in this section.
5. Division 08 Section “Steel Doors and Frames”
6. Division 08 Section “Wood Doors”
7. Division 08 Section “Special Doors”
8. Division 08 Section “Aluminum Framed Entrances and Storefronts”
9. Division 09 sections for touchup finishing or refinishing of existing openings modified by this section.
10. Division 10 Section “Operable Partitions”
11. Division 26 sections for connections to electrical power system and for low-voltage wiring.
12. Division 28 sections for coordination with other components of electronic access control system.

1.03 REFERENCES

A. UL - Underwriters Laboratories

1. UL 10B - Fire Test of Door Assemblies
2. UL 10C - Positive Pressure Test of Fire Door Assemblies
3. UL 1784 - Air Leakage Tests of Door Assemblies
4. UL 305 - Panic Hardware

B. DHI - Door and Hardware Institute

1. Sequence and Format for the Hardware Schedule
2. Recommended Locations for Builders Hardware
3. Key Systems and Nomenclature

C. ANSI - American National Standards Institute

1. ANSI/BHMA A156.1 - A156.29, and ANSI/BHMA A156.31 - Standards for Hardware and Specialties.

1.04 SUBMITTALS

A. General:

1. Submit in accordance with Conditions of Contract and Division 01 requirements.
2. Highlight, encircle, or otherwise specifically identify on submittals deviations from Contract Documents, issues of incompatibility or other issues which may detrimentally affect the Work.
3. Prior to forwarding submittal, comply with procedures for verifying existing door and frame compatibility for new hardware, as specified in PART 3, “EXAMINATION” article, herein.

B. Action Submittals:

1. Product Data: Product data including manufacturers’ technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
2. Riser and Wiring Diagrams: After final approval of hardware schedule, submit details of electrified door hardware, indicating:

a. Wiring Diagrams: For power, signal, and control wiring and including:

1) Details of interface of electrified door hardware and building safety and security systems.
2) Schematic diagram of systems that interface with electrified door hardware.
3) Point-to-point wiring.
4) Risers.

3. Samples for Verification: If requested by Architect, submit production sample or sample installations of each type of exposed hardware unit in finish indicated, and tagged with full description for coordination with schedule.

a. Samples will be returned to supplier in like-new condition. Units that are acceptable to Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements.

4. Door Hardware Schedule: Submit schedule with hardware sets in vertical format as illustrated by Sequence of Format for the Hardware Schedule as published by the Door and Hardware Institute. Indicate complete designations of each item required for each door or opening, include:

   a. Door Index; include door number, heading number, and Architects hardware set number.
   b. Opening Lock Function Spreadsheet: List locking device and function for each opening.
   c. Type, style, function, size, and finish of each hardware item.
   d. Name and manufacturer of each item.
   e. Fastenings and other pertinent information.
   f. Location of each hardware set cross-referenced to indications on Drawings.
   g. Explanation of all abbreviations, symbols, and codes contained in schedule.
   h. Mounting locations for hardware.
   i. Door and frame sizes and materials.
   j. Name and phone number for local manufacturer's representative for each product.
   k. Operational Description of openings with any electrified hardware (locks, exits, electromagnetic locks, electric strikes, automatic operators, door position switches, magnetic holders or closer/holder units, and access control components). Operational description should include how door will operate on egress, ingress, and fire and smoke alarm connection.
   l. Submittal Sequence: Submit door hardware schedule concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate fabrication of other work that is critical in Project construction schedule.

5. Key Schedule:

   a. After Keying Conference, provide keying schedule listing levels of keying as well as explanation of key system's function, key symbols used and door numbers controlled.
   b. Use ANSI/BHMA A156.28 “Recommended Practices for Keying Systems” as guideline for nomenclature, definitions, and approach for selecting optimal keying system.
   c. Provide 3 copies of keying schedule for review prepared and detailed in accordance with referenced DHI publication. Include schematic keying diagram and index each key to unique door designations.
   d. Index keying schedule by door number, keyset, hardware heading number, cross keying instructions, and special key stamping instructions.
   e. Provide one complete bitting list of key cuts and one key system schematic illustrating system usage and expansion.

      1) Forward bitting list, key cuts and key system schematic directly to Owner, by means as directed by Owner.

f. Prepare key schedule by or under supervision of supplier, detailing Owner's final keying instructions for locks.

6. Templates: After final approval of hardware schedule, provide templates for doors, frames and other work specified to be factory prepared for door hardware installation.

C. Informational Submittals:

1. Qualification Data: For Supplier, Installer and Architectural Hardware Consultant.
2. Product Certificates, signed by manufacturer:

a. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.

3. Certificates of Compliance:

a. Certificates of compliance for fire-rated hardware and installation instructions if requested by Architect or Authority Having Jurisdiction.
b. Installer Training Meeting Certification: Letter of compliance, signed by Contractor, attesting to completion of installer training meeting specified in "QUALITY ASSURANCE" article, herein.
c. Electrified Hardware Coordination Conference Certification: Letter of compliance, signed by Contractor, attesting to completion of electrified hardware coordination conference, specified in "QUALITY ASSURANCE" article, herein.

4. Product Test Reports: For compliance with accessibility requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by qualified testing agency, for door hardware on doors located in accessible routes.
5. Warranty: Special warranty specified in this Section.

D. Closeout Submittals:

1. Operations and Maintenance Data : Provide in accordance with Division 01 and include:

a. Complete information on care, maintenance, and adjustment; data on repair and replacement parts, and information on preservation of finishes.
b. Catalog pages for each product.
c. Name, address, and phone number of local representative for each manufacturer.
d. Parts list for each product.
e. Final approved hardware schedule, edited to reflect conditions as-installed.
f. Final keying schedule
g. Copies of floor plans with keying nomenclature
h. As-installed wiring diagrams for each opening connected to power, both low voltage and 110 volts.
i. Copy of warranties including appropriate reference numbers for manufacturers to identify project.

1.05 QUALITY ASSURANCE

A. Product Substitutions: Comply with product requirements stated in Division 01 and as specified herein.

1. Where specific manufacturer's product is named and accompanied by "No Substitute," including make or model number or other designation, provide product specified. (Note: Certain products have been selected for their unique characteristics and particular project suitability.)

a. Where no additional products or manufacturers are listed in product category, requirements for "No Substitute" govern product selection.

2. Where products indicate "acceptable manufacturers" or "acceptable manufacturers and products", provide product from specified manufacturers, subject to compliance with specified requirements and "Single Source Responsibility" requirements stated herein.

B. Supplier Qualifications and Responsibilities: Recognized architectural hardware supplier with record of successful in-service performance for supplying door hardware similar in quantity, type, and quality to that indicated for this Project and that provides certified Architectural Hardware Consultant (AHC) available to Owner, Architect, and Contractor, at reasonable times during the Work for consultation.

1. Distributor must be a factory authorized dealer for all materials required.
2. Facility with warehouse, inventory, and qualified personal on staff within 100 miles of project.
3. Scheduling Responsibility: Preparation of door hardware and keying schedules.
4. Engineering Responsibility: Preparation of data for electrified door hardware, including Shop Drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project.
5. Coordination Responsibility: Coordinate installation of electronic security hardware with Architect and electrical engineers and provide installation and technical data to Architect and other related subcontractors.

a. Upon completion of electronic security hardware installation, inspect and verify that all components are working properly.

C. Installer Qualifications: Qualified tradesmen, skilled in application of commercial grade hardware with record of successful in-service performance for installing door hardware similar in quantity, type, and quality to that indicated for this Project.

D. Architectural Hardware Consultant Qualifications: Person who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project and meets these requirements:

1. For door hardware, DHI-certified, Architectural Hardware Consultant (AHC).
2. Can provide installation and technical data to Architect and other related subcontractors.
3. Can inspect and verify components are in working order upon completion of installation.
4. Capable of producing wiring diagrams.
5. Capable of coordinating installation of electrified hardware with Architect and electrical engineers.

E. Single Source Responsibility: Obtain each type of door hardware (locksets, exit devices, closers, etc) from single manufacturer.

1. Provide electrified door hardware from same manufacturer as mechanical door hardware, unless otherwise indicated.
2. Manufacturers that perform electrical modifications and that are listed by testing and inspecting agency acceptable to authorities having jurisdiction are acceptable.

F. Fire-Rated Door Openings: Provide door hardware for fire-rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction. Provide only items of door hardware that are listed and are identical to products tested by Underwriters Laboratories, Intertek Testing Services, or other testing and inspecting organizations acceptable to authorities having jurisdiction for use on types and sizes of doors indicated, based on testing at positive pressure and according to NFPA 252 or UL 10C and in compliance with requirements of fire-rated door and door frame labels.

G. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door assemblies are required, provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.

1. Air Leakage Rate: Maximum air leakage of 0.3 cfm/sq. ft. (3 cu. m per minute/sq. m) at tested pressure differential of 0.3-inch wg (75 Pa) of water.

H. Electrified Door Hardware: Listed and labeled as defined in NFPA 70, Article 100, by testing agency acceptable to authorities having jurisdiction.

I. Means of Egress Doors: Latches do not require more than 15 lbf (67 N) to release latch. Locks do not require use of key, tool, or special knowledge for operation.

J. Accessibility Requirements: For door hardware on doors in an accessible route, comply with governing accessibility regulations cited in “REFERENCES” article, herein.

1. Provide operating devices that do not require tight grasping, pinching, or twisting of wrist.
2. Maximum opening-force requirements:

    a. Interior, Non-Fire-Rated Hinged Doors: 5 lbf (22.2 N) applied perpendicular to door.
    b. Sliding or Folding Doors: 5 lbf (22.2 N) applied parallel to door at latch.
    c. Fire Doors: Minimum opening force allowable by authorities having jurisdiction.

3. Bevel raised thresholds with slope of not more than 1:2. Provide thresholds not more than 1/2 inch (13 mm) high.
4. Adjust door closer sweep periods so that, from open position of 70 degrees, door will take at least 3 seconds to move to 3 inches (75 mm) from latch, measured to leading edge of door.

K. Keying Conference: Conduct conference at Project site to comply with requirements in Division 01.

1. Attendees: Owner or Owner Representative, Contractor, Architect, Installer, and Supplier’s Architectural Hardware Consultant.

2. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including:

    a. Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
    b. Door locking function.
    c. Preliminary key system schematic diagram.
    d. Requirements for key control system.
    e. Requirements for access control.
    f. Address for delivery of keys and permanent cores.

L. Pre-installation Conference: Conduct conference at Project site.

1. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
2. Inspect and discuss preparatory work performed by other trades.
3. Inspect and discuss electrical roughing-in for electrified door hardware.
4. Review sequence of operation for each type of electrified door hardware.
5. Review required testing, inspecting, and certifying procedures.

M. Coordination Conferences:

1. Installation Coordination Conference: Prior to hardware installation, schedule and hold meeting to review questions or concerns related to proper installation and adjustment of door hardware.

    a. Attendees: Door hardware supplier, door hardware installer, Contractor.
    b. After meeting, provide letter of compliance to Architect, indicating when meeting was held and who was in attendance.

2. Electrified Hardware Coordination Conference: Prior to ordering electrified hardware, schedule and hold meeting to coordinate door hardware with security, electrical, doors and frames, and other related suppliers.

    a. Attendees: electrified door hardware supplier, doors and frames supplier, electrified door hardware installer, electrical subcontractor, Owner or Owner representative, Architect and Contractor.
    b. After meeting, provide letter of compliance to Architect, indicating when coordination conference was held and who was in attendance.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site.

B. Tag each item or package separately with identification coordinated with final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package.

1. Deliver each article of hardware in manufacturer’s original packaging.

C. Project Conditions:

1. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.
2. Provide secure lock-up for door hardware delivered to Project, but not yet installed. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.

D. Protection and Damage:

1. Promptly replace products damaged during shipping.
2. Handle hardware in manner to avoid damage, marring, or scratching. Correct, replace or repair products damaged during Work.
3. Protect products against malfunction due to paint, solvent, cleanser, or any chemical agent.

E. Deliver keys and permanent cores to Owner by registered mail or overnight package service.

1.07 COORDINATION

A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete. Concrete, reinforcement, and formwork requirements are specified in Division 03.

B. Installation Templates: Distribute for doors, frames, and other work specified to be factory prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

C. Security: Coordinate installation of door hardware, including access control and keying, with Owner's security consultant.

D. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.

E. Direct shipments not permitted, unless approved by Contractor.

1.08 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.

1. Warranty Period: Years from date of Substantial Completion, for durations indicated.

a. Closers:

1) Mechanical: 30 years.

b. Exit Devices:

1) Mechanical: 3 years.
2) Electrified: 1 year.

c. Locksets:

1) Mechanical: 3 years.
2) Electrified: 1 year.

d. Continuous Hinges: Lifetime warranty
e. Key Blanks: Lifetime

2. Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.

1.09 MAINTENANCE

A. Maintenance Tools:

1. Furnish complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Approval of manufacturers and/or products other than those listed as “Scheduled Manufacturer” or “Acceptable Manufacturers” in the individual article for the product category shall be in accordance with QUALITY ASSURANCE article, herein.

B. Approval of products from manufacturers indicated in “Acceptable Manufacturers” is contingent upon those products providing all functions and features and meeting all requirements of scheduled manufacturer’s product.

C. Hand of Door: Drawings show direction of slide, swing, or hand of each door leaf. Furnish each item of hardware for proper installation and operation of door movement as shown.

D. Where specified hardware is not adaptable to finished shape or size of members requiring hardware, furnish suitable types having same operation and quality as type specified, subject to Architect's approval.

2.02 MATERIALS

A. Fasteners

1. Provide hardware manufactured to conform to published templates, generally prepared for machine screw installation.
2. Furnish screws for installation with each hardware item. Finish exposed (exposed under any condition) screws to match hardware finish, or, if exposed in surfaces of other work, to match finish of this other work including prepared for paint surfaces to receive painted finish.
3. Provide concealed fasteners for hardware units exposed when door is closed except when no standard units of type specified are available with concealed fasteners. Do not use thru-bolts for installation where bolt head or nut on opposite face is exposed in other work unless thru-bolts are required to fasten hardware securely. Review door specification and advise Architect if thru-bolts are required.
4. Install hardware with fasteners provided by hardware manufacturer.

B. Provide screws, bolts, expansion shields, drop plates and other devices necessary for hardware installation.

1. Where fasteners are exposed to view: Finish to match adjacent door hardware material.

2.03 HINGES

A. Provide five-knuckle, ball bearing hinges.

1. Manufacturers and Products:

a. Scheduled Manufacturer and Product: Ives 5BB series
b. Acceptable Manufacturers and Products: Hager BB series, Bommer BB5000

B. Requirements:

1. Provide three hinges per door leaf for doors 90 inches or less in height, and one additional hinge for each 30 inches of additional door height.
2. Where new hinges are specified for existing doors or existing frames, provide new hinges of identical size to hinge preparation present in existing door or existing frame.
3. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:

a. Steel Hinges: Steel pins
b. Non-Ferrous Hinges: Stainless steel pins
c. Out-Swinging Exterior Doors: Non-removable pins
d. Out-Swinging Interior Lockable Doors: Non-removable pins
e. Interior Non-lockable Doors: Non-rising pins

4. Width of hinges: 4-1/2 inches at 1-3/4 inch thick doors, and 5 inches at 2 inches or thicker doors. Adjust hinge width as required for door, frame, and wall conditions to allow proper degree of opening.
5. Doors 36 inches wide or less furnish hinges 4-1/2 inches high; doors greater than 36 inches wide furnish hinges 5 inches high, heavy weight or standard weight as specified.

2.04 CONTINUOUS HINGES

A. Aluminum Geared

1. Manufacturers:

a. Scheduled Manufacturer: Ives.
b. Acceptable Manufacturers: Pemko, Select.

2. Requirements:

a. Provide aluminum geared continuous hinges conforming to ANSI/BHMA A156.25, Grade 2.

b. Provide aluminum geared continuous hinges, where specified in the hardware sets, fabricated from 6063-T6 aluminum, with 0.25-inch diameter Teflon coated stainless steel hinge pin.
c. Provide split nylon bearings at each hinge knuckle for quiet, smooth, self-lubricating operation.
d. Provide hinges capable of supporting door weights up to 450 pounds, and successfully tested for 1,500,000 cycles.
e. On fire-rated doors, provide aluminum geared continuous hinges that are classified for use on rated doors by testing agency acceptable to authority having jurisdiction.
f. Install hinges with fasteners supplied by manufacturer.
g. Provide hinges with symmetrical hole pattern.

2.05 ELECTRICAL POWER TRANSFER

A. Manufacturers:

1. Scheduled Manufacturer: Von Duprin
2. Acceptable Manufacturers: No Substitute

B. Provide power transfer with electrified options as scheduled in the hardware sets. Provide with number and gage of wires sufficient to accommodate electric function of specified hardware.

C. Locate electric power transfer per manufacturer's template and UL requirements, unless interference with operation of door or other hardware items.

2.06 FLUSH BOLTS

A. Manufacturers:

1. Scheduled Manufacturer: Ives
2. Acceptable Manufacturers: Rockwood, Trimco

B. Requirements:

1. Provide automatic, constant latching, and manual flush bolts with forged bronze or stainless steel face plates, extruded brass levers, and with wrought brass guides and strikes. Provide 12 inch steel or brass rods at doors up to 90 inches in height. For doors over 90 inches in height increase top rods by 6 inches for each additional 6 inches of door height. Provide flush bolts designed, tested, and warranted for door material and door manufacturer. Provide dust-proof strikes at each bottom flush bolt.

2.07 COORDINATORS

A. Manufacturers:

1. Scheduled Manufacturer: Ives
2. Acceptable Manufacturers: Rockwood, Trimco

B. Requirements:

1. Where pairs of doors are equipped with automatic flush bolts, an astragal, or other hardware that requires synchronized closing of the doors, provide bar-type coordinating device, surface applied to underside of stop at frame head.
2. Provide filler bar of correct length for unit to span entire width of opening, and appropriate brackets for parallel arm door closers and surface vertical rod exit device strikes. Factory-prep coordinators for vertical rod devices if required.

2.08 MORTISE LOCKS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product: Schlage L9000 series
2. Acceptable Manufacturers and Products: No Substitute

B. Requirements:

1. Provide mortise locks conforming to ANSI/BHMA A156.13 Series 1000, Grade 1 Operational, Grade 1 Security, and manufactured from heavy gauge steel, containing components of steel with a zinc dichromate plating for corrosion resistance. Provide lock case that is multi-function and field reversible for handing without opening case. Cylinders: Refer to “KEYING” article, herein.
2. Provide locks with standard 2-3/4 inches (70 mm) backset with full 3/4 inch (19 mm) throw stainless steel mechanical anti-friction latchbolt. Provide deadbolt with full 1 inch (25 mm) throw, constructed of stainless steel.
3. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
4. Verify lock functions with owner prior to ordering.
5. Provide electrified options as scheduled in the hardware sets. Where scheduled, provide a request to exit (RX) switch that is actuated with rotation of inside lever.
6. Lever Trim: Solid brass, bronze, or stainless steel, cast or forged in design specified, with wrought roses and external lever spring cages. Provide thru-bolted levers with 2-piece spindles.

    a. Lever Design: Schlage 06B.
    b. Tactile Warning (Knurling): Where required by authority having jurisdiction. Provide on levers on exterior (secure side) of doors serving rooms considered to be hazardous.

2.09 EXIT DEVICES

A. Manufacturer and Product:

1. Scheduled Manufacturer: Von Duprin 99/33 series.
2. Acceptable Manufacturers and Products: No Substitute.

B. Requirements:

1. Provide exit devices tested to ANSI/BHMA A156.3-2014 Grade 1, and UL listed for Panic Exit or Fire Exit Hardware. Cylinders: Refer to “KEYING” article, herein.
2. Provide touchpad type exit devices, fabricated of brass, bronze, stainless steel, or aluminum, plated to standard architectural finishes to match balance of door hardware.
3. Quiet Operation: Incorporate fluid damper or other device that eliminates noise of exit device operation.

4. Touchpad: Extend minimum of one half of door width, but not the full length of exit device rail. Provide end-cap with two-point attachment to door. Match exit device finish, stainless steel for US26, US26D, US28, US32, and US32D finishes; and for all other finishes, provide compatible finish to exit device. Provide compression springs in devices, latches, and outside trims or controls; tension springs prohibited.
5. Provide exit devices with deadlatching feature for security and for future addition of alarm kits and/or other electrical requirements.
6. Provide exit devices with manufacturer's approved strikes.
7. Provide exit devices cut to door width and height. Locate exit devices at height recommended by exit device manufacturer, allowable by governing building codes, and approved by Architect.
8. Mount mechanism case flush on face of doors, or provide spacers to fill gaps behind devices. Where glass trim or molding projects off face of door, provide glass bead kits.
9. Removable Mullions: 2 inches (51 mm) x 3 inches (76 mm) steel tube. Where scheduled as keyed removable mullion that is removed by use of a keyed cylinder, which is self-locking when re-installed.
10. Verify exit device functions with owner prior to ordering.
11. Where lever handles are specified as outside trim for exit devices, provide heavy-duty lever trims with forged or cast escutcheon plates. Provide vandal-resistant levers that will travel to 90-degree down position when more than 35 pounds of torque are applied, and which can easily be re-set.

    a. Lever Style: Match lever style of locksets.
    b. Tactile Warning (Knurling): Where required by authority having jurisdiction. Provide on levers on exterior (secure side) of doors serving rooms considered to be hazardous.

12. Provide UL labeled fire exit hardware for fire rated openings.
13. Provide factory drilled weep holes for exit devices used in full exterior application, highly corrosive areas, and where noted in hardware sets.
14. Provide electrified options as scheduled in the hardware sets.

2.10 POWER SUPPLIES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product: Schlage or Von Duprin PS900 series
2. Acceptable Manufacturers and Products: No Substitute

B. Requirements:

1. Provide power supplies, recommended and approved by manufacturer of electrified locking component, for operation of electrified locks, electrified exit devices, magnetic locks, electric strikes, and other components requiring power supply.
2. Provide appropriate quantity of power supplies necessary for proper operation of electrified locking components as recommended by manufacturer of electrified locking components with consideration for each electrified component using power supply, location of power supply, and approved wiring diagrams. Locate power supplies as directed by Architect.
3. Provide regulated and filtered 24 VDC power supply , and UL class 2 listed.
4. Options:

a. Provide power supply, where specified, with internal capability of charging sealed backup batteries 24 VDC, in addition to operating DC load.
b. Provide sealed batteries for battery back-up at each power supply where specified.
c. Provide keyed power supply cabinet.

5. Provide power supply in an enclosure, complete, and requiring 120VAC to fused input.
6. Provide power supply with emergency release terminals, where specified, that allow release of all devices upon activation of fire alarm system complete with fire alarm input for initiating “no delay” exiting mode.

2.11 CYLINDER HOUSINGS

A. Manufacturers:

1. Scheduled Manufacturer: Schlage
2. Acceptable Manufacturers: No Substitute

B. Requirements:

1. Provide cylinders/cores, from the same manufacturer of locksets, compliant with ANSI/BHMA A156.5; latest revision, Section 12, Grade 1; permanent cylinders; cylinder face finished to match lockset, manufacturer’s series as indicated. Refer to “KEYING” article, herein.
2. Provide cylinders in the below-listed configuration(s), distributed throughout the Project as indicated.

a. Cylinder/Core Type: Small Format Interchangeable Core (SFIC)

3. Replaceable Construction Cores.

a. Provide temporary construction cores replaceable by permanent cores, furnished in accordance with the following requirements.

1) 2 construction control keys.
2) 12 construction change (day) keys.

2.12 PERMANENT CORES, KEYING, AND KEYS

A. Manufacturers:

1. Scheduled Manufacturer: Best
2. Acceptable Manufacturers: No Substitute

B. Core Requirements:

1. Provide cylinders/cores compliant with ANSI/BHMA A156.5; latest revision, Section 12, Grade 1; permanent cylinders; cylinder face finished to match lockset, manufacturer’s series as indicated. Refer to “KEYING” article, herein.
2. Provide cylinders in the below-listed configuration(s), distributed throughout the Project as indicated.

a. Match owner's existing system.
b. Cylinder/Core Type: Small Format Interchangeable Core (SFIC)
c. Keyway/Security Type:

1) Exterior: Best Kaba Peaks
2) Interior: Best F Series

3. Nickel silver bottom pins.

C. Keying Requirements:

1. Provide a factory registered keying system, complying with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.
2. Provide keying system capable of multiplex masterkeying.
3. Permanent keyed by the manufacturer according to the following key system.

a. Keying system as directed by the Owner.
b. Match Owner's existing system.
c. Keyway/Security Type:

1) Exterior: Best Kaba Peaks
2) Interior: Best F Series

d. (Great)Grand Master Key System: Cylinders/cores operated by change (day) keys and subsequent masters (including grand/great grand) keys.

4. Forward bitting list and keys separately from cylinders, by means as directed by Owner. Failure to comply with forwarding requirements shall be cause for replacement of cylinders/cores involved at no additional cost to Owner.
5. Provide keys with the following features:

a. Material: Nickel silver; minimum thickness of .107-inch (2.3mm).
b. Keyway/Security Type:

1) Exterior: Best Kaba Peaks
2) Interior: Best F Series

6. Identification:

a. Mark permanent cylinders/cores and keys with applicable blind code per DHI publication "Keying Systems and Nomenclature" for identification. Blind code marks shall not include actual key cuts.
b. Identification stamping provisions must be approved by the Architect and Owner.
c. Stamp keys with Owner's unique key system facility code as established by the manufacturer; key symbol and embossed or stamped with "DO NOT DUPLICATE".
d. Failure to comply with stamping requirements shall be cause for replacement of keys involved at no additional cost to Owner.

7. Quantity: Furnish in the following quantities.

a. Change (Day) Keys: 3 per cylinder/core.

b. Permanent Control Keys: 3 (if required).
c. Master Keys: 6 per master.
d. Unused balance of key blanks shall be furnished to Owner with the cut keys.

D. Verify with owner where permanent cores and keys are to be shipped to.

2.13 KEY CONTROL SYSTEM

A. Manufacturers:

1. Scheduled Manufacturer: Telkee
2. Acceptable Manufacturers: HPC, Lund

B. Requirements:

1. Provide key control system, including envelopes, labels, tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet, all as recommended by system manufacturer, with capacity for 150% of number of locks required for Project.

a. Provide complete cross index system set up by hardware supplier, and place keys on markers and hooks in cabinet as determined by final key schedule.
b. Provide hinged-panel type cabinet for wall mounting.

2.14 DOOR CLOSERS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product: LCN 4040XP series.
2. Acceptable Manufacturers and Products: No Substitute.

B. Requirements:

1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. ISO 9000 certify closers. Stamp units with date of manufacture code.
2. Provide door closers with fully hydraulic, full rack and pinion action with high strength cast iron cylinder, and full complement bearings at shaft.
3. Cylinder Body: 1-1/2 inch (38 mm) diameter with 3/4 inch (19 mm) diameter double heat-treated pinion journal.
4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards.
6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck.
7. Provide closers with solid forged steel main arms and factory assembled heavy-duty forged forearms for parallel arm closers.
8. Pressure Relief Valve (PRV) Technology: Not permitted.

9. Finish for Closer Cylinders, Arms, Adapter Plates, and Metal Covers: Powder coating finish which has been certified to exceed 100 hours salt spray testing as described in ANSI Standard A156.4 and ASTM B117, or has special rust inhibitor (SRI).
10. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.

2.15 DOOR TRIM

A. Manufacturers:

1. Scheduled Manufacturer: Ives
2. Acceptable Manufacturers: Rockwood, Trimco

B. Requirements:

1. Provide push plates 4 inches (102 mm) wide by 16 inches (406 mm) high by 0.050 inch (1 mm) thick and beveled 4 edges. Where width of door stile prevents use of 4 inches (102 mm) wide plate, adjust width to fit.
2. Provide pull plates 4 inches (102 mm) wide by 16 inches (406 mm) high by 0.050 inch (1 mm) thick, beveled 4 edges, and prepped for pull. Where width of door stile prevents use of 4 inches (102 mm) wide plate, adjust width to fit.

2.16 PROTECTION PLATES

A. Manufacturers:

1. Scheduled Manufacturer: Ives
2. Acceptable Manufacturers: Rockwood, Trimco

B. Requirements:

1. Provide kick plates, mop plates, and armor plates minimum of 0.050 inch thick, beveled four edges as scheduled. Furnish with countersunk sheet metal screws, finished to match plates.
2. Adjust width accordingly for other conflicting hardware (astragals, mullions, etc).
3. Sizes of plates:

    a. Kick Plates: 10 inches high by 1-1/2 inches less width of door on push side of single doors, 1 inch less width of door on push side of pairs
    b. Mop Plates: 4 inches high by 1 inches less width of door on pull side of single and paired doors
    c. Armor Plates: 35 inches high by 1 -1/2 inches less width of door on push side of single doors, 1 inch less width of door on push side of pairs.

2.17 DOOR STOPS AND HOLDERS

A. Manufacturers:

1. Scheduled Manufacturer: Ives
2. Acceptable Manufacturers: Rockwood, Trimco

B. Provide door stops at each door leaf:

1. Provide wall stops wherever possible. Provide convex type where mortise type locks are used and concave type where cylindrical type locks are used.
2. Where a wall stop cannot be used, provide universal floor stops for low or high rise options.
3. Where wall or floor stop cannot be used, provide medium duty surface mounted overhead stop.

2.18 THRESHOLDS, SEALS, DOOR SWEEPS, AUTOMATIC DOOR BOTTOMS, AND GASKETING

A. Manufacturers:

1. Scheduled Manufacturer: Zero
2. Acceptable Manufacturers: National Guard, Reese, Pemko

B. Requirements:

1. Provide thresholds, weather-stripping (including door sweeps, seals, and astragals) and gasketing systems (including smoke, sound, and light) as specified and per architectural details. Match finish of other items.
2. Size threshold width for full wall width when frames are recessed.
3. Cope thresholds at jambs and in front of mullions if thresholds project beyond door faces.
4. Furnish thresholds with non-ferrous stainless steel screws and lead anchors.
5. Furnish thresholds with slip resistant coating at exterior openings and where moisture is present.
6. Provide door sweeps, seals, astragals, and auto door bottoms only of type where resilient or flexible seal strip is easily replaceable and readily available.

2.19 SILENCERS

A. Manufacturers:

1. Scheduled Manufacturer: Ives
2. Acceptable Manufacturers: Rockwood, Trimco

B. Requirements:

1. Provide "push-in" type silencers for hollow metal or wood frames.
2. Provide one silencer per 30 inches of height on each single frame, and two for each pair frame.
3. Omit where gasketing is specified.

2.20 MAGNETIC HOLDERS

A. Manufacturers:

1. Scheduled Manufacturer: LCN
2. Acceptable Manufacturers: No Substitute

B. Requirements:

1. Provide wall or floor mounted electromagnetic door release as specified with minimum of 25 pounds of holding force. Coordination projection of holder and armature with other hardware and wall conditions to ensure that door sits parallel to wall when fully open. Wire magnetic holders on fire-rated doors into the fire control panel for fail-safe operation.

2.21 DOOR POSITION SWITCHES

A. Manufacturers:

1. Scheduled Manufacturer: Schlage
2. Acceptable Manufacturers: GE-Interlogix

B. Requirements:

1. Provide recessed or surface mounted type door position switches as specified.
2. Coordinate door and frame preparations with door and frame suppliers. If switches are being used with magnetic locking device, provide minimum of 4 inches between switch and magnetic locking device.

SCHEDULE 1 - FINSHES

A. Provide finish for each item as indicated in the sets.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Prior to installation of hardware, examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Existing Door and Frame Compatibility: Field verify existing doors and frames receiving new hardware and existing conditions receiving new openings. Verify that new hardware is compatible with existing door and frame preparation and existing conditions.

C. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.

D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

A. Mounting Heights: Mount door hardware units at heights to comply with the following, unless otherwise indicated or required to comply with governing regulations.

1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
2. Custom Steel Doors and Frames: HMMA 831.
3. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."

B. Install each hardware item in compliance with manufacturer’s instructions and recommendations, using only fasteners provided by manufacturer.

C. Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.

D. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.

E. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.

F. Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.

G. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated or one hinge for every 30 inches (750 mm) of door height, whichever is more stringent, unless other equivalent means of support for door, such as spring hinges or pivots, are provided.

H. Lock Cylinders: Install construction cores to secure building and areas during construction period.

1. Replace construction cores with permanent cores as indicated in keying section.

I. Wiring: Coordinate with Division 26, ELECTRICAL sections for:

1. Conduit, junction boxes and wire pulls.
2. Connections to and from power supplies to electrified hardware.
3. Connections to fire/smoke alarm system and smoke evacuation system.
4. Connection of wire to door position switches and wire runs to central room or area, as directed by Architect.
5. Testing and labeling wires with Architect's opening number.

J. Key Control System: Tag keys and place them on markers and hooks in key control system cabinet, as determined by final keying schedule.

K. Door Closers: Mount closers on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Closers shall not be visible in corridors, lobbies and other public spaces unless noted otherwise or approved by Architect.

L. Closer/Holders: Mount closer/holders on room side of corridor doors, inside of exterior doors, and stair side of stairway doors.

M. Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings or in equipment room, or alternate location as directed by Architect.

1. Configuration: Provide power supplies for each opening with electrified door hardware.

N. Thresholds: Set thresholds in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."

O. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they may impede traffic or present tripping hazard.

P. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.

Q. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.

R. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.

3.03 FIELD QUALITY CONTROL

A. Architectural Hardware Consultant: Engage qualified independent Architectural Hardware Consultant to perform inspections and to prepare inspection reports.

1. Architectural Hardware Consultant will inspect door hardware and state in each report whether installed work complies with or deviates from requirements, including whether door hardware is properly installed and adjusted.

3.04 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

1. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.

B. Occupancy Adjustment: Approximately six months after date of Substantial Completion, Installer's Architectural Hardware Consultant shall examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors, door hardware, and electrified door hardware.

3.05 CLEANING AND PROTECTION

A. Clean adjacent surfaces soiled by door hardware installation.

B. Clean operating items as necessary to restore proper function and finish.

C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

3.06 DEMONSTRATION

A. Provide training for Owner's maintenance personnel to adjust, operate, and maintain door hardware and door hardware finishes. Refer to Division 01 Section "Demonstration and Training."

3.07 DOOR HARDWARE SCHEDULE

A. Locksets, exit devices, and other hardware items are referenced in the following hardware sets for series, type and function. Refer to the above-specifications for special features, options, cylinders/keying, and other requirements.

Hardware Sets:

49167 OPT0197055 Version 1

NOTE FOR OPENINGS WITH EXISTING FRAMES: VERIFY EXISTING HINGE TYPE/PREPS AND PROVIDE HINGES THAT EXISTING PREPS ACCOMMODATE. PREP EXISTING FRAME ACCORDINGLY FOR NEW SPECIFIED HARDWARE. PROVIDE FILLERS/PLATES AS NECESSARY TO FILL/COVER UNUSED OR EXPOSED EXISTING PREPS.

HARDWARE GROUP NO. 01

FOR USE ON DOOR #(S):

A111 A112

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	PUSH PLATE	8200 4" X 16"	630	IVE
1	EA	PULL PLATE	8303 10" 4" X 16"	630	IVE
1	EA	SURFACE CLOSER	4040XP REG	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 02

FOR USE ON DOOR #(S):

C113-2 C122-2

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	112XY	710	IVE
2	EA	DUMMY PUSH BAR X PULL TRIM	330 X 990DT	313	VON
2	EA	SURFACE CLOSER (W/ STOP)	4040XP SCUSH	695	LCN
2	EA	PA MOUNTING PLATE	4040XP-18PA	695	LCN
2	EA	CUSH SHOE SUPPORT	4040XP-30	695	LCN
2	EA	BLADE STOP SPACER	4040XP-61	695	LCN

HARDWARE GROUP NO. 03

FOR USE ON DOOR #(S):

A121 A142 A143 A154 C114 C116 C117

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	PRIVACY LOCK	L9040 06B L583-363 L283-722	626	SCH
1	EA	SURFACE CLOSER	4040XP REG	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 04

FOR USE ON DOOR #(S):

B106A B107A B109A B110A

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	PRIVACY W/COIN TURN	L9044 06B L583-363 L283-722	626	SCH
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 05

FOR USE ON DOOR #(S):

A105C B115A

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	PRIVACY W/COIN TURN	L9044 06B L583-363 L283-722	626	SCH
1	EA	SURFACE CLOSER (W/ STOP)	4040XP CUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 06

FOR USE ON DOOR #(S):

C136-2

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050BDC 06B L583-363	626	SCH
1	EA	FLOOR STOP	FS436/FS438	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 07

FOR USE ON DOOR #(S):

A103	A105-2	A106-1	A106-2	A106-3	A106-4
A107	A126	C106	C136-1		

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050BDC 06B L583-363	626	SCH
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 08

FOR USE ON DOOR #(S):

A104

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050BDC 06B L583-363	626	SCH
1	EA	PERMANENT CORE	MATCH OWNER STANDARD SYSTEM	626	BES
1	EA	SURFACE CLOSER (W/ STOP)	4040XP CUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 09

FOR USE ON DOOR #(S):

C108

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050BDC 06B L583-363	626	SCH
1	EA	SURFACE CLOSER (W/ STOP)	4040XP SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 10

FOR USE ON DOOR #(S):

A145-1 A145-2 A162 C126

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050BDC 06B L583-363	626	SCH
1	EA	SURFACE TRACK CLOSER (W/ STOP)	4040XPT BUMP	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 11

FOR USE ON DOOR #(S):

A105-1 A109 A141 C105

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050BDC 06B L583-363	626	SCH
1	EA	SURFACE CLOSER	4040XP REG	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 12

FOR USE ON DOOR #(S):

A113

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050BDC 06B L583-363	626	SCH
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 13

FOR USE ON DOOR #(S):

C104

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050BDC 06B L583-363	626	SCH
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	SMOKE GASKET	488SBK PSA	BK	ZER

HARDWARE GROUP NO. 14

FOR USE ON DOOR #(S):

A105A

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	CLASSROOM LOCK	L9070BDC 06B	626	SCH
1	EA	FLOOR STOP	FS436/FS438	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 15

FOR USE ON DOOR #(S):

A105B A105D A125 A157 C101A

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	CLASSROOM LOCK	L9070BDC 06B	626	SCH
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 16

FOR USE ON DOOR #(S):

A122

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	CLASSROOM LOCK	L9070BDC 06B	626	SCH
1	EA	PERMANENT CORE	MATCH OWNER STANDARD SYSTEM	626	BES
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 17

FOR USE ON DOOR #(S):

A146 A148 A167 B101 B102 B103
B104 B115-1 B116 B117 C102

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	CLASSROOM SECURITY	L9071BDC 06B L283-711	626	SCH
2	EA	PERMANENT CORE	MATCH OWNER STANDARD SYSTEM	626	BES
1	EA	FLOOR STOP	FS436/FS438	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 18

FOR USE ON DOOR #(S):

A138	A139	A140	A149	A159	A164
A166	B105	B106-1	B107-1	B109-1	B110-1
C101	C120	C121	C123	C124	C125
C127	C132	C134	C135		

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	CLASSROOM SECURITY	L9071BDC 06B L283-711	626	SCH
1	EA	PERMANENT CORE	MATCH OWNER STANDARD SYSTEM	626	BES
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 19

FOR USE ON DOOR #(S):

A156-1

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	CLASSROOM SECURITY	L9071BDC 06B L283-711	626	SCH
1	EA	PERMANENT CORE	MATCH OWNER STANDARD SYSTEM	626	BES
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	AUTO DOOR BOTTOM	360AA-LS	AA	ZER

HARDWARE GROUP NO. 20

FOR USE ON DOOR #(S):

A119-1 A119-2

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	STOREROOM LOCK	L9080BDC 06B	626	SCH
1	EA	WALL STOP/HOLDER	WS45/WS45X	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 21

FOR USE ON DOOR #(S):

A118A B112

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	STOREROOM LOCK	L9080BDC 06B	626	SCH
1	EA	SURFACE CLOSER (W/ STOP)	4040XP CUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 22

FOR USE ON DOOR #(S):

B119-1 C129-1

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	STOREROOM LOCK	L9080BDC 06B	626	SCH
1	EA	SURFACE TRACK CLOSER (W/ STOP)	4040XPT BUMP	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 23

FOR USE ON DOOR #(S):

A115-1 A163 C115

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	STOREROOM LOCK	L9080BDC 06B	626	SCH
1	EA	SURFACE CLOSER	4040XP REG	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 24

FOR USE ON DOOR #(S):

A152-1

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	STOREROOM LOCK	L9080BDC 06B	626	SCH
1	EA	SURFACE TRACK CLOSER (W/ STOP)	4040XPT BUMP	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	SMOKE GASKET	488SBK PSA	BK	ZER

HARDWARE GROUP NO. 25

FOR USE ON DOOR #(S):

A151-1

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	STOREROOM LOCK	L9080BDC 06B	626	SCH
1	EA	SURFACE CLOSER	4040XP REG	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	SMOKE GASKET	488SBK PSA	BK	ZER

HARDWARE GROUP NO. 26

FOR USE ON DOOR #(S):

C108A-1

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	STOREROOM LOCK	L9080BDC 06B	626	SCH
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	SMOKE GASKET	488SBK PSA	BK	ZER

HARDWARE GROUP NO. 27

FOR USE ON DOOR #(S):

A131-1 A131-2

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224XY	628	IVE
1	EA	CONST LATCHING BOLT	FB51T/FB61T (AS REQ'D)	630	IVE
1	EA	STOREROOM LOCK	L9080BDC 06B	626	SCH
2	EA	ARMOR PLATE	8400 35" X 1" LDW B-CS	630	IVE
2	EA	FLOOR STOP	FS444	626	IVE
2	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 28

FOR USE ON DOOR #(S):

C109

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224XY	628	IVE
1	EA	CONST LATCHING BOLT	FB51T/FB61T (AS REQ'D)	630	IVE
1	EA	STOREROOM LOCK	L9080BDC 06B	626	SCH
2	EA	ARMOR PLATE	8400 35" X 1" LDW B-CS	630	IVE
2	EA	WALL STOP	WS406/407CCV	630	IVE
2	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 29

FOR USE ON DOOR #(S):

A118-6 A134

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	CONST LATCHING BOLT	FB51T/FB61T (AS REQ'D)	630	IVE
1	EA	STOREROOM LOCK	L9080BDC 06B	626	SCH
1	EA	FLOOR STOP	FS436/FS438	626	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
2	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 30

FOR USE ON DOOR #(S):

A127

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	AUTO FLUSH BOLT	FB31T/FB41T (AS REQ'D)	630	IVE
1	EA	STOREROOM LOCK	L9080BDC 06B	626	SCH
1	EA	COORDINATOR	COR X FL (MB AS REQ'D)	628	IVE
2	EA	SURFACE CLOSER (W/ STOP)	4040XP CUSH	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 31

FOR USE ON DOOR #(S):

A135 B114

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	AUTO FLUSH BOLT	FB31T/FB41T (AS REQ'D)	630	IVE
1	EA	STOREROOM LOCK	L9080BDC 06B	626	SCH
1	EA	COORDINATOR	COR X FL (MB AS REQ'D)	628	IVE
2	EA	SURFACE CLOSER	4040XP EDA	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	WALL STOP	WS406/407CCV	630	IVE
2	EA	SILENCER	SR64	GRY	IVE

SWING 180 WITH WALL STOPS. IF EXISTING CONDITIONS DO NOT ALLOW 180 DEG SWING, THEN USE CUSH CLOSER ARMS IN LIEU OF WALL STOPS.

HARDWARE GROUP NO. 32

FOR USE ON DOOR #(S):

A118-1 A160-2

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	PANIC HARDWARE	LD-99-L-2SI-06	626	VON
2	EA	RIM CYL HOUSING (SFIC)	80-116 (W/ DISP CONST CORE)	626	SCH
2	EA	PERMANENT CORE	MATCH OWNER STANDARD SYSTEM	626	BES
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	WALL STOP/HOLDER	WS45/WS45X	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 33

FOR USE ON DOOR #(S):

A118-2 A118-4

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	PANIC HARDWARE	LD-99-EO	626	VON
1	EA	SURFACE CLOSER (W/ STOP & HO)	4040XP HCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 34

FOR USE ON DOOR #(S):

B115-2

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	112XY EPT	710	IVE
1	EA	POWER TRANSFER	EPT10	695	VON
1	EA	PANIC HARDWARE (W/ RX)	LD-RX-99-NL	313	VON
1	EA	RIM CYL HOUSING (SFIC)	80-159 (W/ KEYED CONST CORE)	613	SCH
1	EA	PERMANENT CORE	MATCH OWNER STANDARD SYSTEM	613	BES
1	EA	SURFACE CLOSER (W/ STOP)	4040XP SCUSH	695	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA	695	LCN
1	EA	CUSH SHOE SUPPORT	4040XP-30	695	LCN
1	EA	BLADE STOP SPACER	4040XP-61	695	LCN
1	EA	RAIN DRIP	142D	D	ZER
1	EA	WEATHERSTRIPPING	BY DOOR/FRAME MANUFACTURER		B/O
1	EA	DOOR SWEEP, BRUSH W/ DRIP	8198D	D	ZER
1	EA	THRESHOLD, 1/2"	655A	A	ZER
1	EA	DOOR CONTACT	679-05	BLK	SCE

HARDWARE GROUP NO. 35

FOR USE ON DOOR #(S):

A147 A165 B111 C118 C133

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224XY EPT	628	IVE
2	EA	POWER TRANSFER	EPT10	689	VON
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-99-DT 24 VDC	626	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-99-NL 24 VDC	626	VON
1	EA	MORTISE CYL HOUSING (SFIC)	80-110 (W/ DISP CONST CORE)	626	SCH
1	EA	RIM CYL HOUSING (SFIC)	80-116 (W/ DISP CONST CORE)	626	SCH
2	EA	PERMANENT CORE	MATCH OWNER STANDARD SYSTEM	626	BES
2	EA	SURFACE CLOSER	4040XP EDA	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	ELEC WALL MAG HOLDER	SEM7830 AS REQ (12/24/120V AC/DC TRI-VOLT)	689	LCN
1	EA	CREDENTIAL READER	BY DIV 28		B/O
2	EA	DOOR CONTACT	679-05	BLK	SCE
1	EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC		VON

DOORS NORMALLY HELD OPEN BY ELEC HOLDERS. ELEC HOLDERS TIED TO SECURITY SYSTEM. WHEN SECURITY SYSTEM IS ACTIVATED, HOLDERS RELEASE, AND DOORS CLOSE AND LOCK. DOORS CAN ALSO BE MANUALLY RELEASED FROM HOLDERS.

WHEN DOORS ARE CLOSED AND LOCKED, PRESENTING VALID CREDENTIAL TO READER MOMENTARILY RETRACTS PANIC DEVICE LATCH, ALLOWING ACCESS. PANIC DEVICE LATCHES ALSO CAPABLE OF BEING ELECTRONICALLY DOGGED DOWN (I.E. PUSH/PULL MODE) AS DESIGNATED BY ACCESS CONTROL SYSTEM SCHEDULE. EXIT DEVICES LATCH AND LOCK WITH ACTIVATION OF SECURITY SYSTEM. FREE EGRESS AT ALL TIMES.

HARDWARE GROUP NO. 36

FOR USE ON DOOR #(S):

C113-1 C122-1

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	112XY EPT	710	IVE
2	EA	POWER TRANSFER	EPT10	695	VON
1	EA	REMOVABLE MULLION	KR4954 STAB	695	VON
1	EA	PANIC HARDWARE (W/ RX)	LD-RX-99-DT	313	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-99-NL 24 VDC	313	VON
1	EA	MORTISE CYL HOUSING (SFIC)	80-110 (W/ DISP CONST CORE)	613	SCH
1	EA	RIM CYL HOUSING (SFIC)	80-159 (W/ KEYED CONST CORE)	613	SCH
2	EA	PERMANENT CORE	MATCH OWNER STANDARD SYSTEM	613	BES
2	EA	SURFACE CLOSER (W/ STOP)	4040XP SCUSH	695	LCN
2	EA	PA MOUNTING PLATE	4040XP-18PA	695	LCN
2	EA	CUSH SHOE SUPPORT	4040XP-30	695	LCN
2	EA	BLADE STOP SPACER	4040XP-61	695	LCN
1	EA	RAIN DRIP	142D	D	ZER
1	EA	MULLION SEAL	8780NBK PSA	BK	ZER
1	EA	WEATHERSTRIPPING	BY DOOR/FRAME MANUFACTURER		B/O
2	EA	DOOR SWEEP, BRUSH W/ DRIP	8198D	D	ZER
1	EA	THRESHOLD, 1/2"	655A	A	ZER
1	EA	CREDENTIAL READER	BY DIV 28		B/O
2	EA	DOOR CONTACT	679-05	BLK	SCE
1	EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC		VON

DOOR NORMALLY CLOSED AND LOCKED. PRESENTING VALID CREDENTIAL TO READER MOMENTARILY RETRACTS PANIC DEVICE LATCH, ALLOWING ACCESS. PANIC DEVICE LATCHES ALSO CAPABLE OF BEING ELECTRONICALLY DOGGED DOWN (I.E. PUSH/PULL MODE) AS DESIGNATED BY ACCESS CONTROL SYSTEM SCHEDULE. EXIT DEVICES LATCH AND LOCK WITH ACTIVATION OF SECURITY SYSTEM. FREE EGRESS AT ALL TIMES.

HARDWARE GROUP NO. 37

FOR USE ON DOOR #(S):

A132-1 A132-2 A133-1 A160-1 C107-1 C107-2 C107-3

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
2	EA	PANIC HARDWARE	LD-99-L-2SI-06	626	VON
1	EA	MORTISE CYL HOUSING (SFIC)	80-110 (W/ DISP CONST CORE)	626	SCH
4	EA	RIM CYL HOUSING (SFIC)	80-116 (W/ DISP CONST CORE)	626	SCH
5	EA	PERMANENT CORE	MATCH OWNER STANDARD SYSTEM	626	BES
2	EA	SURFACE CLOSER	4040XP EDA	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	WALL STOP/HOLDER	WS45/WS45X	626	IVE
2	EA	SILENCER	SR64	GRY	IVE

SWING 180 WITH WALL STOP/HOLDERS. IF EXISTING CONDITIONS DO NOT ALLOW 180 DEG SWING, THEN USE SHCUSH CLOSER ARMS IN LIEU OF WALL STOP/HOLDERS.

HARDWARE GROUP NO. 38

FOR USE ON DOOR #(S):

A118-3 A118-5

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
1	EA	PANIC HARDWARE	LD-99-EO (AT BACK TO BACK LEAF)	626	VON
1	EA	PANIC HARDWARE	LD-99-L-2SI-06	626	VON
1	EA	MORTISE CYL HOUSING (SFIC)	80-110 (W/ DISP CONST CORE)	626	SCH
2	EA	RIM CYL HOUSING (SFIC)	80-116 (W/ DISP CONST CORE)	626	SCH
3	EA	PERMANENT CORE	MATCH OWNER STANDARD SYSTEM	626	BES
2	EA	SURFACE CLOSER (W/ STOP & HO)	4040XP HCUSH (AT BACK TO BACK LEAF)	689	LCN
2	EA	SURFACE CLOSER (W/ STOP & HO)	4040XP SHCUSH	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 39

FOR USE ON DOOR #(S):

A103A	A107A	A114-1	A114-2	A162A	C135A

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	BIFOLD HDW SET	100FD		JOH
2	EA	DOOR PULL, 3/4" RND	8102HD 6" STD	630	IVE

HARDWARE GROUP NO. 40

FOR USE ON DOOR #(S):

B118	B120	C128	C130

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR

CASED OPEN FRAME/OPENING - NO DOOR OR HARDWARE.

HARDWARE GROUP NO. 41

FOR USE ON DOOR #(S):

A100-1	A100-2	A100-3	A100-4	A101	A115-2
A129-1	A136-1	A136-2	A152-2	A158-1	A158-2
B108	B113-1	B113-2			

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR

ALL HARDWARE EXISTING TO REMAIN.

HARDWARE GROUP NO. 42

FOR USE ON DOOR #(S):

A120	A130-2

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR

ALL HARDWARE EXISTING TO REMAIN.

HARDWARE GROUP NO. 43

FOR USE ON DOOR #(S):

A100-5	A116-1	A116-2	A119-3	A130-1	A151-2
A156-2	B106-2	B107-2	B109-2	B110-2	B119-2
C129-2					

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR

ALL HARDWARE EXISTING TO REMAIN.

END OF SECTION

HARDWARE GROUP NO. 01

FOR USE ON DOOR #(S):

A111 A112

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	PUSH PLATE	8200 4" X 16"	630	IVE
1	EA	PULL PLATE	8303 10" 4" X 16"	630	IVE
1	EA	SURFACE CLOSER	4040XP REG	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 02

FOR USE ON DOOR #(S):

C113-2 C122-2

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	112XY	628 ~~(710)~~	IVE
2	EA	DUMMY PUSH BAR X PULL TRIM	330 X 990DT	626 ~~(313)~~	VON
2	EA	SURFACE CLOSER (W/ STOP)	4040XP SCUSH	689 ~~(695)~~	LCN
2	EA	PA MOUNTING PLATE	4040XP-18PA	689 ~~(695)~~	LCN
2	EA	CUSH SHOE SUPPORT	4040XP-30	689 ~~(695)~~	LCN
2	EA	BLADE STOP SPACER	4040XP-61	689 ~~(695)~~	LCN

HARDWARE GROUP NO. 03

FOR USE ON DOOR #(S):

A121 A142 A143 A154 C114 C116 C117

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	PRIVACY LOCK	L9040 06B L583-363 L283-722	626	SCH
1	EA	SURFACE CLOSER	4040XP REG	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 04

FOR USE ON DOOR #(S):

B106A B107A B109A B110A

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	PRIVACY W/COIN TURN	L9044 06B L583-363 L283-722	626	SCH
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 05

FOR USE ON DOOR #(S):

A105C B115A

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	PRIVACY W/COIN TURN	L9044 06B L583-363 L283-722	626	SCH
1	EA	SURFACE CLOSER (W/ STOP)	4040XP CUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 06

FOR USE ON DOOR #(S):

C136-2

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050BDC 06B L583-363	626	SCH
1	**EA**	**PERMANENT CORE**	**MATCH OWNER STANDARD SYSTEM**	**626**	**BES**
1	EA	FLOOR STOP	FS436/FS438	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 07

FOR USE ON DOOR #(S):

A103	A105-2	A106-1	A106-2	A106-3	A106-4
A107	A126	C106	C136-1		

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050BDC 06B L583-363	626	SCH
1	**EA**	**PERMANENT CORE**	**MATCH OWNER STANDARD SYSTEM**	**626**	**BES**
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 08

FOR USE ON DOOR #(S):

A104

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050BDC 06B L583-363	626	SCH
1	EA	PERMANENT CORE	MATCH OWNER STANDARD SYSTEM	626	BES
1	EA	SURFACE CLOSER (W/ STOP)	4040XP CUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 09

FOR USE ON DOOR #(S):

C108

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050BDC 06B L583-363	626	SCH
1	**EA**	**PERMANENT CORE**	**MATCH OWNER STANDARD SYSTEM**	**626**	**BES**
1	EA	SURFACE CLOSER (W/ STOP)	4040XP SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 10

FOR USE ON DOOR #(S):

A145-1 A145-2 A162 C126

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050BDC 06B L583-363	626	SCH
1	**EA**	**PERMANENT CORE**	**MATCH OWNER STANDARD SYSTEM**	**626**	**BES**
1	EA	SURFACE TRACK CLOSER (W/ STOP)	4040XPT BUMP	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 11

FOR USE ON DOOR #(S):

A105-1 A109 A141 C105

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050BDC 06B L583-363	626	SCH
1	**EA**	**PERMANENT CORE**	**MATCH OWNER STANDARD SYSTEM**	**626**	**BES**
1	EA	SURFACE CLOSER	4040XP REG	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 12

FOR USE ON DOOR #(S):

A113

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050BDC 06B L583-363	626	SCH
1	**EA**	**PERMANENT CORE**	**MATCH OWNER STANDARD SYSTEM**	**626**	**BES**
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 13

FOR USE ON DOOR #(S):

C104

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050BDC 06B L583-363	626	SCH
1	**EA**	**PERMANENT CORE**	**MATCH OWNER STANDARD SYSTEM**	**626**	**BES**
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	SMOKE GASKET	488SBK PSA	BK	ZER

HARDWARE GROUP NO. 14

FOR USE ON DOOR #(S):

A105A

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	CLASSROOM LOCK	L9070BDC 06B	626	SCH
1	**EA**	**PERMANENT CORE**	**MATCH OWNER STANDARD SYSTEM**	**626**	**BES**
1	EA	FLOOR STOP	FS436/FS438	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 15

FOR USE ON DOOR #(S):

A105B A105D A125 A157 C101A

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	CLASSROOM LOCK	L9070BDC 06B	626	SCH
1	**EA**	**PERMANENT CORE**	**MATCH OWNER STANDARD SYSTEM**	**626**	**BES**
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 16

FOR USE ON DOOR #(S):

A122

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	CLASSROOM LOCK	L9070BDC 06B	626	SCH
1	EA	PERMANENT CORE	MATCH OWNER STANDARD SYSTEM	626	BES
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 17

FOR USE ON DOOR #(S):

A146 A148 A167 B101 B102 B103
B104 B115-1 B116 B117 C102

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	CLASSROOM SECURITY	L9071BDC 06B L283-711	626	SCH
2	EA	PERMANENT CORE	MATCH OWNER STANDARD SYSTEM	626	BES
1	EA	FLOOR STOP	FS436/FS438	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 18

FOR USE ON DOOR #(S):

A138	A139	A140	A149	A159	A164
A166	B105	B106-1	B107-1	B109-1	B110-1
C101	C120	C121	C123	C124	C125
C127	C132	C134	C135		

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	CLASSROOM SECURITY	L9071BDC 06B L283-711	626	SCH
1	EA	PERMANENT CORE	MATCH OWNER STANDARD SYSTEM	626	BES
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 19

FOR USE ON DOOR #(S):

A156-1

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	CLASSROOM SECURITY	L9071BDC 06B L283-711	626	SCH
1	EA	PERMANENT CORE	MATCH OWNER STANDARD SYSTEM	626	BES
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	AUTO DOOR BOTTOM	360AA-LS	AA	ZER

HARDWARE GROUP NO. 20

FOR USE ON DOOR #(S):

A119-1 A119-2

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	STOREROOM LOCK	L9080BDC 06B	626	SCH
1	**EA**	**PERMANENT CORE**	**MATCH OWNER STANDARD SYSTEM**	**626**	**BES**
1	EA	WALL STOP/HOLDER	WS45/WS45X	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 21

FOR USE ON DOOR #(S):

A118A B112

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	STOREROOM LOCK	L9080BDC 06B	626	SCH
1	**EA**	**PERMANENT CORE**	**MATCH OWNER STANDARD SYSTEM**	**626**	**BES**
1	EA	SURFACE CLOSER (W/ STOP)	4040XP CUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 22

FOR USE ON DOOR #(S):

B119-1 C129-1

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	STOREROOM LOCK	L9080BDC 06B	626	SCH
1	**EA**	**PERMANENT CORE**	**MATCH OWNER STANDARD SYSTEM**	**626**	**BES**
1	EA	SURFACE TRACK CLOSER (W/ STOP)	4040XPT BUMP	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 23

FOR USE ON DOOR #(S):

A115-1 A163 C115

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	STOREROOM LOCK	L9080BDC 06B	626	SCH
1	**EA**	**PERMANENT CORE**	**MATCH OWNER STANDARD SYSTEM**	**626**	**BES**
1	EA	SURFACE CLOSER	4040XP REG	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 24

FOR USE ON DOOR #(S):

A152-1

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	STOREROOM LOCK	L9080BDC 06B	626	SCH
1	**EA**	**PERMANENT CORE**	**MATCH OWNER STANDARD SYSTEM**	**626**	**BES**
1	EA	SURFACE TRACK CLOSER (W/ STOP)	4040XPT BUMP	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	SMOKE GASKET	488SBK PSA	BK	ZER

HARDWARE GROUP NO. 25

FOR USE ON DOOR #(S):

A151-1

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	STOREROOM LOCK	L9080BDC 06B	626	SCH
1	**EA**	**PERMANENT CORE**	**MATCH OWNER STANDARD SYSTEM**	**626**	**BES**
1	EA	SURFACE CLOSER	4040XP REG	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	SMOKE GASKET	488SBK PSA	BK	ZER

HARDWARE GROUP NO. 26

FOR USE ON DOOR #(S):

C108A-1

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	STOREROOM LOCK	L9080BDC 06B	626	SCH
1	**EA**	**PERMANENT CORE**	**MATCH OWNER STANDARD SYSTEM**	**626**	**BES**
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	SMOKE GASKET	488SBK PSA	BK	ZER

HARDWARE GROUP NO. 27

FOR USE ON DOOR #(S):

A131-1 A131-2

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224XY	628	IVE
1	EA	CONST LATCHING BOLT	FB51T/FB61T (AS REQ'D)	630	IVE
1	EA	STOREROOM LOCK	L9080BDC 06B	626	SCH
1	**EA**	**PERMANENT CORE**	**MATCH OWNER STANDARD SYSTEM**	**626**	**BES**
2	EA	ARMOR PLATE	8400 35" X 1" LDW B-CS	630	IVE
2	EA	FLOOR STOP	FS444	626	IVE
2	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 28

FOR USE ON DOOR #(S):

C109

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224XY	628	IVE
1	EA	CONST LATCHING BOLT	FB51T/FB61T (AS REQ'D)	630	IVE
1	EA	STOREROOM LOCK	L9080BDC 06B	626	SCH
1	**EA**	**PERMANENT CORE**	**MATCH OWNER STANDARD SYSTEM**	**626**	**BES**
2	EA	ARMOR PLATE	8400 35" X 1" LDW B-CS	630	IVE
2	EA	WALL STOP	WS406/407CCV	630	IVE
2	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 29

FOR USE ON DOOR #(S):

A134

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	CONST LATCHING BOLT	FB51T/FB61T (AS REQ'D)	630	IVE
1	EA	STOREROOM LOCK	L9080BDC 06B	626	SCH
1	**EA**	**PERMANENT CORE**	**MATCH OWNER STANDARD SYSTEM**	**626**	**BES**
1	EA	FLOOR STOP	FS436/FS438	626	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
2	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 30

FOR USE ON DOOR #(S):

A127

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	AUTO FLUSH BOLT	FB31T/FB41T (AS REQ'D)	630	IVE
1	EA	STOREROOM LOCK	L9080BDC 06B	626	SCH
1	**EA**	**PERMANENT CORE**	**MATCH OWNER STANDARD SYSTEM**	**626**	**BES**
1	EA	COORDINATOR	COR X FL (MB AS REQ'D)	628	IVE
2	EA	SURFACE CLOSER (W/ STOP)	4040XP CUSH	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 31

FOR USE ON DOOR #(S):

A135 B114

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	AUTO FLUSH BOLT	FB31T/FB41T (AS REQ'D)	630	IVE
1	EA	STOREROOM LOCK	L9080BDC 06B	626	SCH
1	**EA**	**PERMANENT CORE**	**MATCH OWNER STANDARD SYSTEM**	**626**	**BES**
1	EA	COORDINATOR	COR X FL (MB AS REQ'D)	628	IVE
2	EA	SURFACE CLOSER	4040XP EDA	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	WALL STOP	WS406/407CCV	630	IVE
2	EA	SILENCER	SR64	GRY	IVE

SWING 180 WITH WALL STOPS. IF EXISTING CONDITIONS DO NOT ALLOW 180 DEG SWING, THEN USE CUSH CLOSER ARMS IN LIEU OF WALL STOPS.

HARDWARE GROUP NO. 32

FOR USE ON DOOR #(S):

A118-1 A160-2

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	PANIC HARDWARE	LD-99-L-2SI-06	626	VON
2	EA	RIM CYL HOUSING (SFIC)	80-116 (W/ DISP CONST CORE)	626	SCH
2	EA	PERMANENT CORE	MATCH OWNER STANDARD SYSTEM	626	BES
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	WALL STOP/HOLDER	WS45/WS45X	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 33

FOR USE ON DOOR #(S):

A118-2 A118-4

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	PANIC HARDWARE	LD-99-EO	626	VON
1	EA	SURFACE CLOSER (W/ STOP & HO)	4040XP HCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 34

FOR USE ON DOOR #(S):

B115-2

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	112XY EPT	628 ~~(710)~~	IVE
1	EA	POWER TRANSFER	EPT10	689 ~~(695)~~	VON
1	EA	PANIC HARDWARE (W/ RX)	LD-RX-99-NL	626 ~~(313)~~	VON
1	EA	RIM CYL HOUSING (SFIC)	80-159 (W/ KEYED CONST CORE)	626 ~~(613)~~	SCH
1	EA	PERMANENT CORE	MATCH OWNER STANDARD SYSTEM	626 ~~(613)~~	BES
1	EA	SURFACE CLOSER (W/ STOP)	4040XP SCUSH	689 ~~(695)~~	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA	689 ~~(695)~~	LCN
1	EA	CUSH SHOE SUPPORT	4040XP-30	689 ~~(695)~~	LCN
1	EA	BLADE STOP SPACER	4040XP-61	689 ~~(695)~~	LCN
1	EA	RAIN DRIP	142AA ~~(142D)~~	AA ~~(D)~~	ZER
1	EA	WEATHERSTRIPPING	BY DOOR/FRAME MANUFACTURER		B/O
1	EA	DOOR SWEEP, BRUSH W/ DRIP	8198AA ~~(8198D)~~	AA ~~(D)~~	ZER
1	EA	THRESHOLD, 1/2"	655A	A	ZER
1	EA	DOOR CONTACT	679-05	BLK	SCE

HARDWARE GROUP NO. 35

FOR USE ON DOOR #(S):

A147 A165 B111 C118 C133

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224XY EPT	628	IVE
2	EA	POWER TRANSFER	EPT10	689	VON
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-99-DT 24 VDC	626	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-99-NL 24 VDC	626	VON
1	EA	MORTISE CYL HOUSING (SFIC)	80-110 (W/ DISP CONST CORE)	626	SCH
1	EA	RIM CYL HOUSING (SFIC)	80-116 (W/ DISP CONST CORE)	626	SCH
2	EA	PERMANENT CORE	MATCH OWNER STANDARD SYSTEM	626	BES
2	EA	SURFACE CLOSER	4040XP EDA	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	ELEC WALL MAG HOLDER	SEM7830 AS REQ (12/24/120V AC/DC TRI-VOLT)	689	LCN
1	EA	CREDENTIAL READER	BY DIV 28		B/O
2	EA	DOOR CONTACT	679-05	BLK	SCE
1	EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC		VON

DOORS NORMALLY HELD OPEN BY ELEC HOLDERS. ELEC HOLDERS TIED TO SECURITY SYSTEM. WHEN SECURITY SYSTEM IS ACTIVATED, HOLDERS RELEASE, AND DOORS CLOSE AND LOCK. DOORS CAN ALSO BE MANUALLY RELEASED FROM HOLDERS.

WHEN DOORS ARE CLOSED AND LOCKED, PRESENTING VALID CREDENTIAL TO READER MOMENTARILY RETRACTS PANIC DEVICE LATCH, ALLOWING ACCESS. PANIC DEVICE LATCHES ALSO CAPABLE OF BEING ELECTRONICALLY DOGGED DOWN (I.E. PUSH/PULL MODE) AS DESIGNATED BY ACCESS CONTROL SYSTEM SCHEDULE. EXIT DEVICES LATCH AND LOCK WITH ACTIVATION OF SECURITY SYSTEM. FREE EGRESS AT ALL TIMES.

HARDWARE GROUP NO. 36

FOR USE ON DOOR #(S):

C113-1 C122-1

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	112XY EPT	628 ~~(710)~~	IVE
2	EA	POWER TRANSFER	EPT10	689 ~~(695)~~	VON
1	EA	REMOVABLE MULLION	KR4954 STAB	689 ~~(695)~~	VON
1	EA	PANIC HARDWARE (W/ RX)	LD-RX-99-DT	626 ~~(313)~~	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-99-NL 24 VDC	626 ~~(313)~~	VON
1	EA	MORTISE CYL HOUSING (SFIC)	80-110 (W/ DISP CONST CORE)	626 ~~(613)~~	SCH
1	EA	RIM CYL HOUSING (SFIC)	80-159 (W/ KEYED CONST CORE)	626 ~~(613)~~	SCH
2	EA	PERMANENT CORE	MATCH OWNER STANDARD SYSTEM	626 ~~(613)~~	BES
2	EA	SURFACE CLOSER (W/ STOP)	4040XP SCUSH	689 ~~(695)~~	LCN
2	EA	PA MOUNTING PLATE	4040XP-18PA	689 ~~(695)~~	LCN
2	EA	CUSH SHOE SUPPORT	4040XP-30	689 ~~(695)~~	LCN
2	EA	BLADE STOP SPACER	4040XP-61	689 ~~(695)~~	LCN
1	EA	RAIN DRIP	142AA ~~(142D)~~	AA ~~(D)~~	ZER
1	EA	MULLION SEAL	8780NBK PSA	BK	ZER
1	EA	WEATHERSTRIPPING	BY DOOR/FRAME MANUFACTURER		B/O
2	EA	DOOR SWEEP, BRUSH W/ DRIP	8198AA ~~(8198D)~~	AA ~~(D)~~	ZER
1	EA	THRESHOLD, 1/2"	655A	A	ZER
1	EA	CREDENTIAL READER	BY DIV 28		B/O
2	EA	DOOR CONTACT	679-05	BLK	SCE
1	EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC		VON

DOOR NORMALLY CLOSED AND LOCKED. PRESENTING VALID CREDENTIAL TO READER MOMENTARILY RETRACTS PANIC DEVICE LATCH, ALLOWING ACCESS. PANIC DEVICE LATCHES ALSO CAPABLE OF BEING ELECTRONICALLY DOGGED DOWN (I.E. PUSH/PULL MODE) AS DESIGNATED BY ACCESS CONTROL SYSTEM SCHEDULE. EXIT DEVICES LATCH AND LOCK WITH ACTIVATION OF SECURITY SYSTEM. FREE EGRESS AT ALL TIMES.

HARDWARE GROUP NO. 37

FOR USE ON DOOR #(S):

A132-1 A132-2 A133-1 A160-1 C107-1 ~~C107-2~~ ~~C107-3~~

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
2	EA	PANIC HARDWARE	LD-99-L-2SI-06	626	VON
1	EA	MORTISE CYL HOUSING (SFIC)	80-110 (W/ DISP CONST CORE)	626	SCH
4	EA	RIM CYL HOUSING (SFIC)	80-116 (W/ DISP CONST CORE)	626	SCH
5	EA	PERMANENT CORE	MATCH OWNER STANDARD SYSTEM	626	BES
2	EA	SURFACE CLOSER	4040XP EDA	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	WALL STOP/HOLDER	WS45/WS45X	626	IVE
2	EA	SILENCER	SR64	GRY	IVE

SWING 180 WITH WALL STOP/HOLDERS. IF EXISTING CONDITIONS DO NOT ALLOW 180 DEG SWING, THEN USE SHCUSH CLOSER ARMS IN LIEU OF WALL STOP/HOLDERS.

HARDWARE GROUP NO.37A

FOR USE ON DOOR #(S):

C107-2 C107-3

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224XY EPT	628	IVE
2	EA	POWER TRANSFER	EPT10	689	VON
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
1	EA	PANIC HARDWARE (W/ RX)	LD-RX-99-DT	626	VON
1	EA	PANIC HARDWARE (W/ RX)	LD-RX-99-NL	626	VON
1	EA	MORTISE CYL HOUSING (SFIC)	80-110 (W/ DISP CONST CORE)	626	SCH
1	EA	RIM CYL HOUSING (SFIC)	80-159 (W/ KEYED CONST CORE)	626	SCH
2	EA	PERMANENT CORE	MATCH OWNER STANDARD SYSTEM	626	BES
2	EA	SURFACE CLOSER (W/ STOP)	4040XP SCUSH	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
1	EA	RAIN DRIP	142AA	AA	ZER
1	EA	WEATHERSTRIPPING	429AA-S	AA	ZER
1	EA	MULLION SEAL	8780NBK PSA	BK	ZER
2	EA	ASTRAGAL, MEETING STILE	8195AA	AA	ZER
2	EA	DOOR SWEEP, BRUSH W/ DRIP	8198AA	AA	ZER
1	EA	THRESHOLD, 1/2"	655A	A	ZER
2	EA	DOOR CONTACT	679-05	BLK	SCE

HARDWARE GROUP NO. 38

FOR USE ON DOOR #(S):

A118-3 A118-5

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
1	EA	PANIC HARDWARE	LD-99-EO (AT BACK TO BACK LEAF)	626	VON
1	EA	PANIC HARDWARE	LD-99-L-2SI-06	626	VON
1	EA	MORTISE CYL HOUSING (SFIC)	80-110 (W/ DISP CONST CORE)	626	SCH
2	EA	RIM CYL HOUSING (SFIC)	80-116 (W/ DISP CONST CORE)	626	SCH
3	EA	PERMANENT CORE	MATCH OWNER STANDARD SYSTEM	626	BES
2	EA	SURFACE CLOSER (W/ STOP & HO)	4040XP HCUSH (AT BACK TO BACK LEAF)	689	LCN
2	EA	SURFACE CLOSER (W/ STOP & HO)	4040XP SHCUSH	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 39

FOR USE ON DOOR #(S):

A103A A107A A114-1 A114-2 A162A C135A

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	BIFOLD HDW SET	100FD		JOH
2	EA	DOOR PULL, 3/4" RND	8102HD 6" STD	630	IVE

HARDWARE GROUP NO. 40

FOR USE ON DOOR #(S):

B118 B120 C128 C130

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR

CASED OPEN FRAME/OPENING - NO DOOR OR HARDWARE.

HARDWARE GROUP NO. 41

FOR USE ON DOOR #(S):

A100-1	A100-2	A100-3	A100-4	A101	A115-2
A129-1	A136-1	A136-2	A152-2	A158-1	A158-2
B108	B113-1	B113-2			

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR

ALL HARDWARE EXISTING TO REMAIN.

HARDWARE GROUP NO. 42

FOR USE ON DOOR #(S):

A120 A130-2

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR

ALL HARDWARE EXISTING TO REMAIN.

HARDWARE GROUP NO. 43

FOR USE ON DOOR #(S):

A100-5	A116-1	A116-2	A119-3	A130-1	A151-2
A156-2	B106-2	B107-2	B109-2	B110-2	B119-2
C129-2					

PROVIDE EACH OPENING WITH THE FOLLOWING:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR

ALL HARDWARE EXISTING TO REMAIN.

Door#	HwSet#
A100-1	41
A100-2	41
A100-3	41
A100-4	41
A100-5	43
A101	41
A103	07
A103A	39
A104	08
A105-1	11
A105-2	07
A105A	14
A105B	15
A105C	05
A105D	15
A106-1	07
A106-2	07
A106-3	07
A106-4	07
A107	07
A107A	39
A109	11
A111	01
A112	01
A113	12
A114-1	39
A114-2	39
A115-1	23
A115-2	41
A116-1	43
A116-2	43
A118-1	32
A118-2	33
A118-3	38
A118-4	33
A118-5	38
A118A	21
A119-1	20
A119-2	20
A119-3	43
A120	42
A121	03
A122	16
A125	15
A126	07
A127	30
A129-1	41
A130-1	43

Door#	HwSet#
A130-2	42
A131-1	27
A131-2	27
A132-1	37
A132-2	37
A133-1	37
A134	29
A135	31
A136-1	41
A136-2	41
A138	18
A139	18
A140	18
A141	11
A142	03
A143	03
A145-1	10
A145-2	10
A146	17
A147	35
A148	17
A149	18
A151-1	25
A151-2	43
A152-1	24
A152-2	41
A154	03
A156-1	19
A156-2	43
A157	15
A158-1	41
A158-2	41
A159	18
A160-1	37
A160-2	32
A162	10
A162A	39
A163	23
A164	18
A165	35
A166	18
A167	17
B101	17
B102	17
B103	17
B104	17
B105	18
B106-1	18

Door#	HwSet#
B106-2	43
B106A	04
B107-1	18
B107-2	43
B107A	04
B108	41
B109-1	18
B109-2	43
B109A	04
B110-1	18
B110-2	43
B110A	04
B111	35
B112	21
B113-1	41
B113-2	41
B114	31
B115-1	17
B115-2	34
B115A	05
B116	17
B117	17
B118	40
B119-1	22
B119-2	43
B120	40
C101	18
C101A	15
C102	17
C104	13
C105	11
C106	07
C107-1	37
C107-2	**37A** ~~(37)~~
C107-3	**37A** ~~(37)~~
C108	09
C108A-1	26
C109	28
C113-1	36
C113-2	02
C114	03
C115	23
C116	03
C117	03
C118	35
C120	18
C121	18
C122-1	36

Door#	HwSet#
C122-2	02
C123	18
C124	18
C125	18
C126	10
C127	18
C128	40
C129-1	22
C129-2	43
C130	40
C132	18
C133	35
C134	18
C135	18
C135A	39
C136-1	07
C136-2	06

March 24, 2021

ADDENDUM

ADDENDUM NO: 2

PROJECT: Pleasant Run Elementary School Renovation & Addition

REVISED SHEETS

1. C101 Existing Conditions and Demolition Plan
    a. Revise keynote 38.
    b. Add leader with keynoter 45.
2. C501 Utility Plan
    a. Revise stone below the chambers to 18 inches.
    b. Revise base of stone elevation to 859.65.
    c. Revise keynotes 33.
    d. Add keynote 41.
    e. Swap the location of the FDC and the PIV with the fire lines respectively.
3. C504 Utility Details
    a. Revise detail information.
    b. Revise notes.
4. L500 Site Details
    a. Details 1, 2, 4, and 6 have been updated to reflect the recommended paving thicknesses per the geotechnical report.
5. Traffic Signal Modernization
    a. Replace Current Sheet with the Attached.

REVISED SPECIFICATIONS

1. SECTION 11 68 00 PLAYGROUND EQUIPMENT
    a. The following has been added to section 2.1.A.3.a:
        1) Approved Equal: Gaga Pit Model No. #590-0077 as manufactured by BCI Burke Company, Fond du Lac, WI 54937, 1-800-266-1250.
    b. The following has been added to section 2.1.A.4.a:
        3) 1) Approved Equal: 5" OD Arch Swing and Add-On Model Nos. #550-0135 and #550-0136 as manufactured by BCI Burke Company, Fond du Lac, WI 54937, 1-800-266-1250.
        4) Approved Equal: Model No. #FREPC2123 as manufactured by Playcraft Systems, Grants Pass, OR 957526, 1-800-333-8519.
    c. The following has been added to section 2.1.A.5.a:
        6) Approved Equal: Belt Seat Model No. #550-0112 as manufactured by BCI Burke Company, Fond du Lac, WI 54937, 1-800-266-1250.

7) Approved Equal: Belt Swings as manufactured by Playcraft Systems, Grants Pass, OR 957526, 1-800-333-8519.

d. The following has been added to section 2.1.A.6.a:
   1) Approved Equal: Volito Model No. #550-0186 as manufactured by BCI Burke Company, Fond du Lac, WI 54937, 1-800-266-1250.

e. The following has been added to section 2.1.A.8.a:
   1) 1) Approved Equal: RopeVenture Sky 5 Model No. #560-0598 as manufactured by BCI Burke Company, Fond du Lac, WI 54937, 1-800-266-1250.
   2) Approved Equal: Model No. #FRENE101 as manufactured by Playcraft Systems, Grants Pass, OR 957526, 1-800-333-8519.

f. The following has been added to section 2.1.A.9.a:
   1) Approved Equal: Volta Inclusive Spinner Model No. #560-2579 as manufactured by BCI Burke Company, Fond du Lac, WI 54937, 1-800-266-1250.

g. The following has been added to section 2.1.A.10.a:
   2) Approved Equal: Orb Rocker Model No. #570-2703 as manufactured by BCI Burke Company, Fond du Lac, WI 54937, 1-800-266-1250.

h. The following has been added to section 2.1.A.11.a:
   1) Approved Equal: Model No.#GXY991262 as manufactured by Kompan Inc., 317.578.0588, or approved equal prior to bidding.
   2) Approved Equal: Verve V Model No. #560-2584 as manufactured by BCI Burke Company, Fond du Lac, WI 54937, 1-800-266-1250.

i. The following has been added to section 2.1.A.12.a:
   3) Approved Equal: Swift Twist Model No. #560-0457 as manufactured by BCI Burke Company, Fond du Lac, WI 54937, 1-800-266-1250.

2. SECTION 32 12 16 ASPHALT PAVING
   a. Part 3 – Execution updated to include information for Asphalt Sealcoating.

3. SECTION 32 18 16 PLAYGROUND PROTECTIVE SURFACING
   a. The following has been added to section 2.1.B:
      7) Pro-Techs Surfacing LLC, Sharon Center, OH (330)-576-6058
   b. The following has been added to section 2.1.C:
      4) Sof-Step by Greendell Landscape Solutions, Mooresville, IN (317) 996-2816

SECTION 11 68 00 – PLAYGROUND EQUIPMENT

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. Product Selections:

1. Playground Timbers
2. Basketball Goals
3. Gaga Pit
4. 3-Bay Arch Swing
5. Swing Seats and Chains
6. Group Swing
7. Composite Play Structure
8. Net Climber
9. Large Spinner
10. 4-Person See Saw
11. Small Climber
12. Standing Spinner
13. Shade Structure

B. Related Sections include the following:

1. Division 31 Section "Earth Moving" for excavation and grading work.
2. Division 3 Section "Site Cast-in-Place Concrete" for concrete footings.
3. Division 32 Section "Playground Protective Surfacing" for playground surface.

1.3 DEFINITIONS

A. Composite Play Structures: According to ASTM F 1487, this means "two or more play structures, attached or functionally linked," creating one integral unit with more than one play activity.

B. 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."

C. 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.

D. HDPE: High-density polyethylene.

E. IPEMA: International Play Equipment Manufacturers Association.

F. MDPE: Medium-density polyethylene.

G. Play Structure: According to ASTM F 1487, this is "a free-standing structure with one or more components and their supporting members."

H. 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.

I. PVC: Polyvinyl chloride.

J. Transfer Point: According to ASTM F 1487, this is "a platform or deck along an accessible route of travel or an accessible platform provided to allow a child in a wheelchair to transfer from the chair onto the equipment."

K. 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 construction details, material descriptions, dimensions of individual components and profiles, and finishes.

B. Shop Drawings: For each type of playground equipment, include materials, plans, elevations, sections, details, method of field assembly, connections, and installation details. Indicate capacity and number of play activities.

C. Coordination Drawings: Layout plans and elevations drawn to scale and coordinating playground equipment with playground surface systems. Show playground equipment locations, use zones, fall heights, extent of protective surfacing, and Critical Heights.

D. Samples for Initial Selection: Manufacturer's color charts or 6-inch (150-mm) lengths of actual units showing the full range of colors and textures available for components with factory-applied color finishes.

E. Samples for Verification: For the following products, for each type of exposed finish required, prepared on Samples of size indicated below and of same thickness and material indicated for the Work. If finishes involve normal color and texture variations, include sample sets showing the full range of variations expected. Landscape Architect reserves the right to require additional Samples that show fabrication techniques, workmanship, and design of playground equipment.

1. Steel Pipe: Not less than 6 inches (150 mm) long.
2. Metal Roofing: Not less than 6 inches (150 mm) square.
3. Molded Plastic: Not less than 3 inches (75 mm) square.
4. Stainless Steel: Not less than 3 inches (75 mm) square.
5. Steel Cable: Not less than 6 inches (150 mm) long

F. Product Certificates: Signed by manufacturers of playground equipment and resilient surfacing certifying that products furnished comply with requirements.

G. Installer Certificates: Signed by manufacturer certifying that installers comply with requirements.

H. Manufacturer Certificates: Signed by manufacturers certifying that they comply with requirements.

I. Material Certificates: Signed by manufacturers certifying that each of the following items complies with requirements:

1. Paints and similar finishes.
2. Recycled plastic.

J. Product Test Reports: From a qualified testing agency indicating playground equipment complies with requirements, based on comprehensive testing of current products.

K. Field Quality-Control Report: Indicate compliance of playground and installed playground equipment and components with requirements.

L. Maintenance Data: For playground equipment and finishes to include in maintenance manuals specified in Division 1.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: An experienced installer who has specialized in installing work similar in material, design, and extent to that indicated for this Project and who is acceptable to manufacturer of playground equipment.

B. Manufacturer Qualifications: A firm whose playground equipment components meet or exceed the latest requirements as published in ASTM F 1487-95 Standard Consumer Safety Product Performance for Playground Equipment for Public Use.

C. Testing Agency Qualifications: An independent testing agency with the experience and capability to conduct the testing indicated, as documented according to ASTM E 548.

D. Standards and Guidelines: Provide playground equipment and resilient surfacing complying with or exceeding requirements in the following:

1. ASTM F 1487.
2. CPSC No. 325, "Handbook for Public Playground Safety."
3. Label play structures with warning label and manufacturer's identification per ASTM F 1487.
4. ASTM F 1292-17 and F 1951.

1.6 COORDINATION

A. Coordinate construction of equipment use zones and fall heights during installation of playground equipment with installation of protective surfacing specified herein. Sequence work so protective surfacing can be installed immediately after concrete footings have set.

PART 2 - PRODUCTS

2.1 PRODUCTS

A. Products: Subject to compliance with requirements, provide and install complete play features as follows:
   1. Playground Timbers: (refer to Division 32 Section - Playground Protective Surfacing)
   2. Basketball Goals:
      a. Gared Sports, Noblesville, IN 46060; 1-800-325-2682. Model #GP105PC72 Endurance Playground System, 6" Square Post, 5' Extension, BB72P50 Polycarbonate Backboard, 8800 Goal, or approved equal prior to bidding.
   3. Ga-Ga Pits:
      a. Ga-Ga Pits, Model Octagon 24"H with Walltop Cover, as manufactured by Coach Cliff's Gaga Pits, Waukegan, IL 60085, Phone 877-266-8426, or approved equal prior to bidding.
         1) Approved Equal: Gaga Pit Model No. #590-0077 as manufactured by BCI Burke Company, Fond du Lac, WI 54937, 1-800-266-1250.
   4. 3-Bay Arch Swing:
      a. Basis of Design - Swings: 5" Arch Swing w/ 6 belts, Model No. #221292 / 221293 as manufactured by Landscape Structures Inc., Delano, MN 55328, 1-866-959-7866, or approved equal prior to bidding.
         1) Approved Equal: 8'-0" Arch Swing, Model No. KSW926-6B, as manufactured by Kompan Inc., 317.578.0588.
         2) Approved Equal: 5" Arch Swing, as manufactured by Playworld Systems Inc., Lewisburg, PA 1-800-233-8404.
         3) Approved Equal: 5" OD Arch Swing and Add-On Model Nos. #550-0135 and #550-0136 as manufactured by BCI Burke Company, Fond du Lac, WI 54937, 1-800-266-1250.
         4) Approved Equal: Model No. #FREPC2123 as manufactured by Playcraft Systems, Grants Pass, OR 957526, 1-800-333-8519.
   5. Swing Seats and Chains:
      a. Basis of Design - Swing Seats: Slash-Proof Belt Seat Model No. #174018 and Molded Bucket Seat with Seat Strap Model No. #177350 and #111416, as manufactured by Landscape Structures Inc., Delano, MN 55328, 1-866-959-7866, or approved equal prior to bidding.
         1) Welds shall be smooth and continuous with no gaps or pin holes. Final product shall be free of weld spatters and burrs. Each chain shall swing freely from a UHMW bushing for maximum wear resistance without requiring periodic maintenance.
         2) Swing mounting brackets shall be finished black.
         3) Swing chain and assembly hardware shall be galvanized.
         4) Chains to be a minimum of 80" long. Chains to be cut in field at a final height to be coordinated with the Owner.
         5) Approved Equal: Swing Seat and ADA Seat, as manufactured by Kompan Inc., 317.578.0588.
         6) Approved Equal: Belt Seat Model No. #550-0112 as manufactured by BCI Burke Company, Fond du Lac, WI 54937, 1-800-266-1250.
         7) Approved Equal: Belt Swings as manufactured by Playcraft Systems, Grants Pass, OR 957526, 1-800-333-8519.
   6. Group Swing:
      a. Basis of Design: Oodle Swing Model No. #173592 as manufactured by Landscape Structures Inc., Delano, MN 55328, 1-866-959-7866, or approved equal prior to bidding.

1) Pre-Approved Equal: Portal Swing with Birds Nest Shell Seat, Model No. KSW92007, as manufactured by Kompan Inc., 317.578.0588.
2) Approved Equal: Volito Model No. #550-0186 as manufactured by BCI Burke Company, Fond du Lac, WI 54937, 1-800-266-1250.

7. Composite Play Structure:
   a. Basis of Design: Beachcomber, Design No. #CP018107A, as manufactured by Landscape Structures Inc., Delano, MN 55328, 1-866-959-7866, or approved equal prior to bidding.
8. Net Climber, Pyramid:
   a. Basis of Design: Lunar Burst Model No. #173754, as manufactured by Landscape Structures Inc., Delano, MN 55328, 1-866-959-7866, or approved equal prior to bidding.

      1) Provide two (2) membrane platforms or seating elements integrated into the net structure.

      2) Pre-Approved Substitution: Mini Spacenet, Model No. #COR30301, as manufactured by Kompan Inc., 317.578.0588.
      3) Approved Equal: Denali 4M Net, Model No. #ZZXX1054, as manufactured by Playworld Systems Inc., Lewisburg, PA 1-800-233-8404.
      4) Approved Equal: RopeVenture Sky 5 Model No. #560-0598 as manufactured by BCI Burke Company, Fond du Lac, WI 54937, 1-800-266-1250.
      5) Approved Equal: Model No. #FRENE101 as manufactured by Playcraft Systems, Grants Pass, OR 957526, 1-800-333-8519.
9. Large Spinner:
   a. Basis of Design: OmniSpin Model No. #173591, as manufactured by Landscape Structures Inc., Delano, MN 55328, 1-866-959-7866, or approved equal prior to bidding.
      1) Approved Equal: Volta Inclusive Spinner Model No. #560-2579 as manufactured by BCI Burke Company, Fond du Lac, WI 54937, 1-800-266-1250.
10. 4-Person See Saw:
   a. Basis of Design: WeSaw Model No. #186490 as manufactured by Landscape Structures Inc., Delano, MN 55328, 1-866-959-7866, or approved equal prior to bidding.
      1) Pre-Approved Substitution: Multi-SeeSaw Model No. #M186 and #M147 as manufactured by Kompan Inc., 317.578.0588.
      2) Approved Equal: Orb Rocker Model No. #570-2703 as manufactured by BCI Burke Company, Fond du Lac, WI 54937, 1-800-266-1250.
11. Small Climber:
   a. Basis of Design: Funnel Climber, Model No. #144477 as manufactured by Landscape Structures Inc., Delano, MN 55328, 1-866-959-7866, or approved equal prior to bidding.
      1) Approved Equal: Model No.#GXY991262 as manufactured by Kompan Inc., 317.578.0588, or approved equal prior to bidding.
      2) Approved Equal: Verve V Model No. #560-2584 as manufactured by BCI Burke Company, Fond du Lac, WI 54937, 1-800-266-1250.
12. Standing Spinner:
   a. Basis of Design: Spica 3, Model No. #GXY8016 as manufactured by Kompan Inc., 317.578.0588, or approved equal prior to bidding.
      1) Approved Equal: Swift Twist Model No. #560-0457 as manufactured by BCI Burke Company, Fond du Lac, WI 54937, 1-800-266-1250.
13. Shade Structure:

a. 18'x18' Skyways Canopy Hip Roof with Rapid Release 10’-0” Ht. Model No. #227368 as manufactured by Landscape Structures Inc., Delano, MN 55328, Phone 888-752-9574 or approved equal prior to bidding.

B. Manufacturers and Substitutions: Subject to compliance with all intended play value, play experience, safety requirements, proven durability records, and advanced certifications deemed appropriate by the Landscape Architect, approved equals are encouraged as part of the bidding process. Bidders shall request approval of alternative products in writing during the bidding process. Complete and thorough submittals demonstrating equality and parity must be received no later than ten (10) days prior to the Bid Opening to be considered. Substitutions, if accepted, will be issued in writing by the Landscape Architect via addendum.

C. Required Coordination: The successful Contractor shall be fully responsibility for coordination with respective playground manufacturers when attaching new product to existing structures. The Owner shall not bear any change orders or additional costs related to a lack of due diligence by the Contractor to ensure products included in their Bid are fully compliant with specifications, properly attach to existing structures, and maintain all warranties in force.

D. Colors: As selected by Landscape Architect from manufacturer's full range of standard colors during Shop Drawing process.

2.2 MATERIALS

A. Aluminum: Alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated and to comply with performance requirements for structural aluminum; mill finish or decorative baked-enamel powder-coat finish.

1. Extruded Bars, Profiles, and Tubes: ASTM B 221 (ASTM B 221M).

a. Tubing: Minimum yield strength of 35,000 lbf/sq. in. (241 MPa) and minimum tensile strength of 38,000 lbf/sq. in. (262 MPa).

2. Cast Aluminum: ASTM B 179.

B. Steel: Comply with the following:

1. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M, hot-dip galvanized.
2. Steel Pipe: Standard-weight steel pipe complying with ASTM A 53 or electric-resistance-welded pipe complying with ASTM A 135, with a minimum yield strength of 30,000 lbf/sq. in. (205 MPa); hot-dip galvanized internally and externally.
3. Steel Mechanical Tubing: Cold-rolled, electric-resistance-welded carbon or alloy steel tubing complying with ASTM A 513 or steel tubing fabricated from steel complying with ASTM A 569/A 569M and complying with the dimensional tolerances in ASTM A 500; with a minimum yield strength of 40,000 lbf/sq. in. (276 MPa) and a minimum tensile strength of 45,000 lbf/sq. in. (310 MPa); zinc coated internally and externally.
4. Steel Sheet: Commercial steel sheet complying with ASTM A 569/A 569M.
5. Galvanized Steel Sheet: Commercial steel sheet, hot-dip galvanized, complying with ASTM A 653/A 653M for not less than G60 (Z180) coating designation; mill phosphatized.
6. Perforated Metal: From steel sheet not less than 0.0897-inch (2.3-mm) nominal thickness; manufacturer's standard perforation pattern.

C. Opaque Plastic: Color impregnated, UV stabilized, and mold resistant.

1. Polyethylene: Fabricated from virgin plastic resin; rotationally molded MDPE with not less than 1/4-inch (6-mm) wall thickness or molded HDPE.

D. Transparent Plastic: Clear, colorless abrasion-resistant, UV-stabilized monolithic polycarbonate sheet, not less than 3/16 inch (5 mm) thick.

E. Post Caps: Cast aluminum.

F. Platform Clamps and Hangers: Cast aluminum or not less than 0.105-inch- (2.7-mm-) nominal thickness, zinc-plated steel.

G. Hardware: Manufacturer's standard, commercial-quality, corrosion-resistant, hot-dip galvanized steel, stainless steel, or aluminum; secure, vandal-resistant design.

H. Fasteners: Manufacturer's standard, corrosion-resistant, hot-dip galvanized or plated steel, or stainless steel; permanently capped; theft resistant.

I. Drainage Fill: Washed coarse-aggregate mixture of crushed stone, or crushed or uncrushed gravel.

J. Galvanizing: Where indicated for steel components, provide the following protective zinc coating applied to components after fabrication:

1. Zinc-Coated Tubing: External, zinc with organic overcoat, consisting of a minimum of 0.9 oz./sq. ft. (0.27 kg/sq. m) of zinc after welding, a chromate conversion coating, and a clear, polymer film. Internal, same as external or consisting of 81 percent, not less than 0.3-mil- (0.0076-mm-) thick, zinc pigmented coating.
2. Hot-Dip Galvanizing: According to ASTM A 123/A 123M, ASTM A 153/A 153M, or ASTM A 924/A 924M.

K. Paint and PVC-Coat Finish: Comply with 16 CFR 1303 for limiting lead in paint.

2.3 FABRICATION

A. General: Provide sizes, strengths, thicknesses, wall thickness, and weights of components as indicated but not less than required to comply with structural performance and other requirements in ASTM F 1487. Factory drill components for field assembly. Unnecessary holes in components, not required for field assembly, are not permitted. Provide complete play structure, including supporting members and connections, means of access and egress, designated play surfaces, barriers, guardrails, handrails, handholds, and other components indicated or required to comply with referenced standards for equipment indicated.

B. Rung Ladders, Stepladders, Stairways, Ramps, Step Platforms, and Transfer Points: Provide complete means of access and egress, with evenly spaced treads and rungs, easily grasped handholds, and slip-resistant foot surfaces; fabricated from manufacturer's standard materials complying with requirements indicated and compatible with frame and play surfaces. Provide closed risers and protective barriers if indicated or required by referenced standards.

C. Play Surfaces: Provide elevated decks, platforms, landings, walkways, ramps, and similar transitional play surfaces, designed and framed to withstand loads and allowing for drainage.

Fabricate units in manufacturer's standard modular sizes and shapes, to form assembled play surfaces of dimensions indicated on Drawings.

1. Elevated Play Surfaces: Provide protective devices, completely surrounding play surface except for access openings, if play-surface heights above protective surfacing exceed the following for use by age group indicated:

    a. Unless otherwise indicated, provide guardrails or protective barriers if play-surface heights above protective surfacing exceed 30 inches (760 mm) and provide protective barriers if play-surface heights above protective surfacing exceed 48 inches (1200 mm).

2. Stepped Play Surfaces: Provide protective infill between stepped platforms according to referenced standards.

D. Protective Barriers: Fabricated from welded metal pipe or tubing with vertical bars and fabricated with any openings within the barrier and between the barrier and the play surface precluding passage of the torso probe according to the most stringent requirements in ASTM F 1487 and CPSC No. 325. Provide barriers designed to minimize the possibility of climbing, free of hand- and footholds, and configured to completely surround the protected area except for access openings. Extend barriers to the following height above the protected elevated surface for use by age group indicated:
    1. Top surface not less than 38 inches (970 mm) high.

E. Guardrails: Fabricated from metal pipe or tubing, and wood. Provide guardrails configured to completely surround the protected area except for access openings. Extend guardrails over the following expanse above the protected elevated surface for use by age group indicated:
    1. Top surface at not less than 38 inches (970 mm) and lower edge at not more than 28 inches (710 mm).

F. Handrails: Welded metal pipe or tubing, OD 0.125 inch (3.2 mm). Provide handrails at height between the following dimensions for use by age group indicated:

    1. 22 to 38 inches (560 to 970 mm).

G. Structural Plastic Slide Chutes: Opaque plastic, unless transparent plastic is indicated.

H. Roofs: Fabricated from metal and wood designed to be positioned overhead and to discourage and minimize climbing by users.

I. Climbing Ropes, Cables, and Chains: Designed to be secured at both ends so length cannot be looped back on itself creating a loop with an inside perimeter greater than 5 inches (127 mm). Ropes, cables, and chains with length 7 inches (178 mm) or less may be attached at one end only.

J. Flexible Climbers: Designed to securely connect flexible-climber components used as access to other components at both ends. For components with one end connected to ground level, provide flexible climbers designed with the anchoring connection to ground placed beneath the base of protective surfacing.

K. Steel Components: Galvanized, galvanized and color coated, or color coated. Bare metal steel components are not permitted.

1. Color-Coated Pipe and Tubing for Component Frames: PVC-coat or baked-enamel powder coat applied to steel or galvanized steel.

2.4 CAST-IN-PLACE CONCRETE

A. Top of concrete footings shall be held 12” below finished grade within all protective play surfacing conditions. Account for any related impacts on overall footing depth to achieve Manufacturer’s recommendations.

B. Concrete Materials and Properties: Dry-packaged concrete mix complying with ASTM C 387 and mixed at the site with potable water, according to manufacturer's written instructions, to produce normal-weight concrete with a minimum 28-day compressive strength of 3,000 psi (20.7 MPa), 3-inch (75-mm) slump, and 1-inch- (25-mm-) maximum size aggregate.

2.5 METAL FINISHES, GENERAL

A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating metal finishes.

B. 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.

2.6 STEEL, ALUMINUM, AND GALVANIZED STEEL FINISHES

A. Baked-Enamel Powder-Coat Finish: Manufacturer's standard, baked, polyester-TGIC, powder-coat finish complying with finish manufacturer's written instructions for surface preparation, including pretreatment, application, baking, and minimum dry film thickness of 3 to 5 mils (0.075 to 0.127 mm).

B. PVC Finish: Manufacturer's standard, UV-stabilized, mold-resistant, slip-resistant,-matte-textured, dipped or sprayed-on, PVC-plastisol finish, with flame retardant added, complying with coating manufacturer's written instructions for pretreatment, application, and minimum dry film thickness of 80 mils (2 mm).

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas and conditions, with Installer present, for compliance with requirements for site clearing, earthwork, site surface and subgrade drainage, and other conditions affecting performance.

1. Do not begin installation before final grading required for placing protective surfacing is completed, unless otherwise permitted by Landscape Architect.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Verify locations of playground perimeter and pathways. Verify that playground layout and equipment locations comply with requirements for each type and component of equipment.

3.3 INSTALLATION, GENERAL

A. General: Comply with manufacturer's written installation instructions, unless more stringent requirements are indicated. Anchor playground equipment securely, positioned at locations and elevations indicated on Shop Drawings.

1. Maximum Equipment Height: Coordinate installed heights of equipment and components with installation of protective surfacing. Set equipment so fall heights and elevation requirements for age group use and accessibility are within required limits. Verify that playground equipment elevations comply with requirements for each type and component of equipment.

B. Post and Footing Excavation: Hand-excavate holes for posts and footings to dimensions, profile, spacings, and in locations indicated on Drawings, in firm, undisturbed or compacted subgrade soil. Level bearing surfaces with drainage fill to required elevation.

C. Post Setting: Set main-frame equipment posts in concrete footing. Protect portion of posts above footing from concrete splatter. Place concrete around posts and vibrate or tamp for consolidation. Verify that posts are set plumb or at the correct angle and are aligned and at the correct height and spacing. Hold posts in position during placement and finishing operations until concrete is sufficiently cured.

D. Resilient Surface Installation: Excavate area to dimensions and depth as indicated in the Drawings. Confirm use zone for each play structure with manufacturer’s coordination drawings. Place separation fabric in excavated area, allowing for overlap as indicated. Place and compact crushed stone base to depth indicated in the Drawings.

E. ADA Swing Alignment: The Contractor shall align newly installed ADA swings into the center of existing bays. Provide all labor and materials to properly fasten the system.

F. Carefully coordinate surfacing depths with the General Contractor. Ensure that a uniform, evenly finished surface is achieved.

3.4 FIELD QUALITY CONTROL

A. Arrange for playground equipment manufacturer's technical personnel to inspect playground and playground equipment and components during installation and at final completion and to certify compliance with the following:

1. ASTM F 1487.
2. CPSC No. 325.

B. Notify Landscape Architect and Owner 48 hours in advance of date and time of final inspection.

3.5 CLEANING

A. After completing playground equipment installation, inspect components. Remove spots, dirt, and debris. Repair damaged finishes to match original finish or replace component.

END OF SECTION 11 68 00

SECTION 32 12 16 - ASPHALT PAVING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

B. INDOT Department of Transportation Standard Specifications and all subsequent provisions.

1.2 SUMMARY

A. This Section includes provisions for hot-mixed asphalt paving over prepared stone subbase.

B. Furnish and install the compacted stone subbase and asphalt pavement. Prepared subbase as specified in Specification Section "Earth Moving".

C. Proof rolling of prepared subbase is included in this Section.

1.3 SUBMITTALS

A. General: Submit the following in accordance with Conditions of Contract and Division 1 Specification Sections.

B. Material Certificates signed by material producer and Contractor, certifying that each material item complies with or exceeds specified requirements.

C. Laboratory Test Reports: Submit laboratory reports for concrete materials and mix design as specified.

1.4 QUALITY ASSURANCE

A. The General Contractor will employ and pay for a qualified testing/inspection laboratory to perform testing services for asphalt paving in accordance with testing provisions as specified.

1.5 SITE CONDITIONS

A. Weather Limitations: Apply tack coat when ambient temperature is above 50°F (10°C) and when temperature has not been below 35°F (1°C) for 12 hours immediately prior to application. Do not apply when base is wet or contains an excess of moisture.

B. Construct hot-mixed asphalt surface course when atmospheric temperature is above 40°F (4°C) and when base is dry. Base course may be placed when air temperature is above 30°F (minus 1°C) and rising.

C. Grade Control: Establish and maintain required lines and elevations.

PART 2 - PRODUCTS

2.1 MATERIALS

A. General: Use locally available materials and gradations that exhibit a satisfactory record of previous installations.

B. Base Course Aggregate: Sound, angular crushed stone.

C. Surface Course Aggregate: Crushed stone and sharp-edged natural sand.

1. All crushed stone shall meet the quality requirements of INDOT Standard Specifications.

D. Mineral Filler: Limestone dust, rock or slag dust, hydraulic cement, or other inert material complying with AASHTO M-17 (ASTM D-242) (INDOT Standard Specification).

E. Asphalt Cement: AASHTO M-226 (ASTM D-3381) for viscosity-graded material and AASHTO M-20 (ASTM D-946) for penetration-graded material. The bitumen material for all asphalt mixes shall be as specified per the INDOT Standard Specifications.

F. Tack Coat: Cut-back asphalt or asphalt emulsion conforming to 409 Indiana Department of Transportation Standard Specifications.

2.2 ASPHALT-AGGREGATE MIXTURE

A. Bituminous Binder Course Mixture: Course Aggregate Size 8.

B. Surface Course Mixture: Course Aggregate Size 11 Class B.

C. Refer to Section 404.02 of INDOT Specifications for mix formula and composition limits on the above mixtures, unless otherwise noted. Binder and Surface courses may contain up to 25% reclaimed asphalt pavement (RAP).

PART 3 - PART 3 - EXECUTION

3.1 SURFACE PREPARATION

A. All areas where proposed asphalt meets existing shall be cleanly sawcut and smoothly transitioned together.

B. General: Remove loose material from compacted subbase subgrade.

C. Proof-roll prepared subbase to check for unstable areas and areas requiring additional compaction. Do not begin paving work until such conditions have been corrected and are ready to receive paving.

D. Notify General Contractor and Owner's representative of unsatisfactory conditions. Do not begin paving work until deficient subbase areas have been corrected and are ready to receive the stone subbase. Commencement of the placement of the stone subbase signifies acceptance of subgrade by the Asphalt Contractor. From that point on, correction of unsatisfactory conditions becomes the responsibility of the Asphalt Contractor

E. Tack Coat: Apply to contact surfaces of previously constructed asphalt or Portland cement concrete and surfaces abutting or projecting into hot-mixed asphalt pavement. Distribute at rate of 0.05 to 0.15 gal. per sq. yd. of surface. Apply between binder and surface courses of asphalt pavement.

F. Allow to dry until at proper condition to receive paving.

G. Exercise care in applying bituminous materials to avoid smearing of adjoining concrete surfaces. Remove and clean damaged surfaces.

3.2 PLACING MIX

A. General: Place hot-mixed asphalt mixture on prepared surface, spread, and strike off. Spread mixture at minimum temperature of 225° F (107° C). Place areas inaccessible to equipment by hand. Place each course to required grade, cross-Section, and compacted thickness.

B. Paver Placing: Place in strips not less than 10 feet wide, unless otherwise acceptable to Engineer. After first strip has been placed and rolled, place surface strips and extend rolling to overlap previous strips. Complete base course for a Section before placing surface course.

C. Immediately correct surface irregularities in finish course behind paver. Remove excess material forming high spots with shovel or lute.

D. Place mix in the thickness as shown on drawings.

E. Tack Coat: Apply tack coat to surface of binder course prior to application of surface course. Apply tack course in conformance with 409 Indiana Department of Transportation Standard Specifications. Clean surface of binder course by power broom and/or other means prior to installation of tack coat.

F. Joints: Make joints between old and new pavements, or between successive days' work, to ensure continuous bond between adjoining work. Construct joints to have same texture, density, and smoothness as other Sections of hot-mixed asphalt course. Clean contact surfaces and apply tack coat.

3.3 ROLLING

A. General: Begin rolling when mixture will bear roller weight without excessive displacement.

B. Compact mixture with hot hand tampers or vibrating plate compactors in areas inaccessible to rollers.

C. Breakdown Rolling: Accomplish breakdown or initial rolling immediately following rolling of joints and outside edge. Check surface after breakdown rolling and repair displaced areas by loosening and filling, if required, with hot material.

D. Second Rolling: Follow breakdown rolling as soon as possible, while mixture is hot. Continue second rolling until mixture has been evenly compacted.

E. Finish Rolling: Perform finish rolling while mixture is still warm enough for removal of roller marks. Continue rolling until roller marks are eliminated and course has attained 95 percent laboratory density.

F. Patching: Remove and replace paving areas mixed with foreign materials and defective areas. Cut out such areas and fill with fresh, hot-mixed asphalt. Compact by rolling to specified surface density and smoothness.

G. Protection: After final rolling, do not permit vehicular traffic on pavement until it has cooled and hardened.

H. Erect barricades to protect paving from traffic until mixture has cooled enough not to become marked.

3.4 SEALCOATING (WHEN APPLICABLE)

A. Crack Filler: "MasterSeal" hot pour crack sealant by SealMaster Industries, Brewer-Cote line of asphalt products, or approved equal.

B. Seal Coat: "MasterSeal" asphalt emulsion sealer by SealMaster Industries, Brewer-Cote line of asphalt products, or approved equal.

C. Remove dirt and debris from all cracks with an air-compressor and apply crack filler in accordance with manufacturer instructions. Ensure that pavement surfaces are clean and free of loose materials or dirt prior to seal coating. No surface damage repair is anticipated within the Base Bid.

D. Apply seal coating with mechanical equipment wherever practical to insure a smooth, even coating free of obvious seams and brush marks. Install at temperatures exceeding 50 deg F for a period of 24 hours before and after application. Two coats are required at an application rate of 0.11 to 0.13 gal./sq. yd for each coat.

3.5 WARRANTY

A. Warranty completed work for two (2) years from date of acceptance.

B. The Contractor shall remove and replace pavements stained by diesel fuel and/or oil prior to Final Acceptance of the project.

C. Repair or replace any pavement failure other than that due to normal wear and tear or abuse during warranty period.

3.6 FIELD QUALITY CONTROL

A. General: Testing in-place hot-mixed asphalt courses for compliance with requirements for thickness, surface smoothness, and placing temperatures will be done by the testing laboratory. Repair or remove and replace unacceptable paving as directed the General Contractor.

B. Field tests for the asphalt mixes shall be extractions to determine aggregate gradations and bitumen content and density in addition to thickness and placing temperature.

1. Perform at least one test for every 2,000 sq. ft. of paved area, but in no case fewer than one test.

C. Thickness: In-place compacted thickness tested in accordance with ASTM D 3549 will not be acceptable if exceeding following allowable variations:

1. Base Course: Plus or minus 1/4 inch.

2. Surface Course: Plus or minus 3/16 inch.

END OF SECTION

SECTION 32 18 16 – 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 resilient and engineered wood fiber playground surfacing systems.

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 "Cast-in-Place Concrete" for concrete footings.

C. Base Bid for playground surfacing shall include all material, labor, and equipment necessary to install the engineered wood fiber and bonded rubber ADA routes as depicted in Plans.

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:
   1. ASTM F 1292-99: Impact Attenuation Test Certification for the poured-in-place system to be installed in compliance with the Critical Fall Height as determined by the Playground Equipment to be installed in conjunction with the poured-in-place 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 poured-in-place 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.
   1. Open areas of Engineered Wood Fiber primarily in and around the play equipment.
   2. ADA accessible routes. Bonded Rubber or Poured-in-Place routes are acceptable (Contractor's Option).

B. Manufacturer: Subject to compliance with requirements, provide ADA-compliant rubber resilient surfacing products by the following manufacturers, or approved equal prior to bidding.

1. Kinetic Recreation, McCordsville, IN, (317) 842-7550.
2. Unity Surfacing Systems, Hicksville, NY, Toll Free (877) 41-UNITY.
3. SpectraTurf, Corona, CA, Toll Free (800) 875-5788.
4. Surface America, Williamsville, NY, Toll Free (800) 999-0555.
5. No Fault Sport Group, Baton Rouge, LA Toll Free (866) 637-7678.
6. AMEX Surface Installer, LLC., Litchfield, OH, (216) 224-7732
7. **Pro-Techs Surfacing LLC, Sharon Center, OH (330)-576-6058.**

C. Manufacturer: Subject to compliance with requirements, provide Engineered Wood Fiber products by the following manufacturer, or approved equal prior to bidding.

1. Fibar Systems, Armonk, PA, Toll Free (800) 342-2721.
2. Everplay International, Brampton, Ontario, (416) 410-3056.
3. Zeager Bros, Inc, Middletown, PA, Toll Free (800) 346-8524.
4. **Sof-Step by Greendell Landscape Solutions, Mooresville, IN (317) 996-2816**

D. Colors: As selected by Landscape Architect from manufacturer's full range for Resilient applications; Natural wood color for Engineered Fiber.

2.2 ENGINEERED WOOD FIBER MATERIALS

A. Description: As recognized and approved by CPSC Guidelines for accessible Engineered Wood Fiber playground surfacing systems, free of chemicals or stains that might be toxic to users or able to transfer onto clothing or shoes.

1. Testing: All Engineered Wood Fiber shall meet the current guidelines from ASTM F2075-15, CPSC, and ADA for particle size, drainage and hazardous materials.

2.3 RESILIENT SURFACING FOR ADA ROUTES

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.

B. Bonded Rubber
1. General Description: Bonded Rubber is: A single density pour of 100% Recycled shredded rubber mulch, blended with a traditional polyurethane adhesive, achieving a unique, natural appearance for your outdoor activity or playground area. There are specific depths that meet particular fall height protections. The thickness of the rubber can be varied to match the fall height of the equipment and a variety of shapes or designs can be incorporated into the surfacing System. Thickness Critical Height 2.5 inches 6 feet – 3.0 inches 7 feet – 3.5 inches 8 feet.
2. Quality Assurance: The Bonded Rubber 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. When Bonded Rubber is poured-in-place it is then toweled to provide for a resilient, seamless rubber surface installed over substrate base. The surfacing material

shall consist of 100% post-consumer recycled rubber shred material. Binder shall consist of a nonflammable, non- shrinking, one part moisture cured polyurethane adhesive as recommended by the manufacturer and capable of bonding rubber to sub-base. Acceptable substrates are: concrete, asphalt, compacted crushed stone, wood decking, roof membranes, indoor flooring and substrates that do not have stress cracks.

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 Bonded Rubber system to be considered equal must meet the “Bonded Rubber” system of GEOWORKS Recreational Design and Construction.
7. Products: All components of the Bonded Rubber system shall be obtained from the manufacturer or its authorized distributors and shall be manufactured in the United States of America, and meet the standard specifications set herein.
8. Materials: The polyurethane primer and binder shall be 100% single component polyurethane binding agent – methylene dephenyl isocyanate (MDI) based binder. No polyoils or extenders will be permitted. The impact/wear course shall be a precise combination of +4 SBR recycled rubber buffings colored with an organic pigmented colorant and coated with an environmental friendly sealant. Bonded poured rubber shall be free of foreign matter and of sizing to achieve maximum porosity and minimum residue.
9. Testing: All tiles 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.

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. All sides of playground surfacing shall be bound by concrete curb or slab. Curbing shall be set at an acceptable grade level to permit proper drainage. Field coordinate as required.

G. Crushed Stone Base:
   1. Engineered Wood Fiber: Installation of a minimum six (6) inch layer of #8 crushed stone shall be completed and compacted to a 95% rating and a ± ¼" level when measured with a ten foot straight edge in any direction.
   2. Resilient Surfacing: Installation of a minimum six (6) inch layer of #53 crushed stone shall be completed and compacted to a 95% rating and a ± ¼" level when measured with a ten foot straight edge in any direction.
   3. Compaction shall be completed in two (2) lifts.

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.

I. 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

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Pleasant Run Elementary School
Addendum #2

March 24, 2021

Drawing S104 – Café Foundation and Framing Plans

1. Added notes to existing slab removed and replaced to allow for new terrazzo floor.

Drawing S711 – Framing Sections and Details

1. Clarified details 1, 8, 9, and 11.

Drawing S712 Framing Sections and Details

1. Added a borrowed light opening detail.

Addendum #2

To: All Bidders of Record

This addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications and Drawings. This addendum is issued in accordance with the provision of "The General Conditions of the Contract for Construction, "Article 1, "Contract Documents" and becomes a part of the Contract Documents as provided therein. All Contractors shall incorporate into the contract documents and into their bid the following changes and clarifications to the drawings, specifications and scope of work.

Acknowledge receipt of this addendum in the location provided on the bid form.

Plumbing

Specifications:

Item 1. Section 22 13 15 FLOOR DRAINS
a. 2.01, Add "WATTS" to list of acceptable manufacturers.

Item 2. 22 14 23 ROOF DRAINS
a. 2.02, A., Add "WATTS" to list of acceptable manufacturers.

Item 3. 22 40 00 PLUMBING FIXTURES AND TRIM
a. 1.03, H., Add "WATTS" to list of acceptable manufacturers.

Drawings:

Item 1. Sheet P301 Plumbing Schedules And Details – "Plumbing Fixture Schedule"
a. SK-5 & SK-6: Add to "Remarks" box, STEM Room sinks do not include a Solids Interceptor, only a standard chrome plated P-Trap.
b. FD'C': Change Floor Drain description to, Like J.R. Smith #2110 with #3590-B-M; with Sediment Bucket, Ductile Iron Grate with Oval Funnel, and Deep Seal Trap. Furnish with Trap Seal Device equal to "Trap Guard".

Mechanical

Specifications:

Item 1. Section 23 09 00 - TEMPERATURE CONTROL AND ENERGY MANAGEMENT SYSTEM
a. Add the following at the end of paragraph 4.01

F. Furnish and install an Emergency Boiler Shut-Down switch outside the Mechanical Room door. Switch to be red pushbutton, momentary contact, yellow body, protected by a clear plastic cover, equal to Safety Technology

International SS2 Series. Label 'Emergency Boiler Shut Shut-off', Mount 48" AFF.

Wire switch contact to disable all boilers in compliance with ASME CSD-1 and activate alarm through the Energy Management System.

Item 2. Section 23 75 33 PACKAGED MAKE-UP AIR UNITS

a. Paragraph 2.01 B, add the following to the list of approved manufacturers:

2. Modine Atherion
3. Daikin Applied

Item 3. Section 23 82 19 FAN COIL UNITS

a. Paragraph 2.01 G, add the following to the list of approved manufacturers:

AE-Air Inc.

Drawings:

Item 1. Sheet MD201A – First Floor Mechanical Demolition Plan Unit A

a. Remove cabinet unit heaters and/or convector covers and reinstall after new finishes have been completed, coordinate work with the finish contractor. Unit are located in the main lobby, men's RR, women's RR and small vestibule in administration area and 3RD grade classroom 17. See architectural addendum drawing AD201A for room names and locations

Item 2. Sheet M201A – First Floor Mechanical Plan Unit A

a. Replace mechanical plan note #17 with the following:
30"X 72" outside air duct up thru roof to hood. See sheet M204 for continuation.

Item 3. Sheet M201B – First Floor Mechanical Plan Unit B

a. Replace mechanical plan note #17 with the following:
30"X 72" outside air duct up thru roof to hood. See sheet M204 for continuation.

Item 4. Sheet M201C – First Floor Mechanical Plan Unit C

a. Replace mechanical plan note #17 with the following:
30"X 72" outside air duct up thru roof to hood. See sheet M204 for continuation.

Item 5. Sheet M211A – First Floor Mechanical Piping Plan Unit A

a. Replace mechanical plan note #11 with the following:
New 1" cooper condensate drain line (insulated) down in new stud wall to sink tailpiece upstream of P-Trap.
b. Provide variable frequency drives to the heating pumps P-1 and P-1.

Item 6. Sheet M211B – First Floor Mechanical Piping Plan Unit B

a. Replace mechanical plan note #11 with the following:
New 1" cooper condensate drain line (insulated) down in new stud wall to sink tailpiece upstream of P-Trap.

Item 7. Sheet M211C – First Floor Mechanical Piping Plan Unit C

a. Replace mechanical plan note #11 with the following:
New 1" cooper condensate drain line (insulated) down in new stud wall to sink tailpiece upstream of P-Trap.

Item 8. Sheet M301 – Mechanical Schedules and Details

a. Outside Air Vent Schedule – change throat size to 30"x 72".

Item 9. Sheet M302 – Mechanical Piping Details

a. Typical Pump Detail revised, see attached M302 drawing.
b. Add Refrigerant Piping Detail to sheet, see attached M302 drawing.

Item 10. Sheet M303 – Mechanical Sections

a. Delete sheet in its entirety and replace with revised sheet M303 attached.

Electrical

Specifications: ***N/A***

Drawings:

Item 1. Sheet E100 – Electrical Symbols and Abbreviations

a. Reissue sheet in its entirety.

Item 2. Sheet E201A – First Floor Power and Systems Plan – Unit A

a. Reissue sheet in its entirety.

Item 3. Sheet E201B – First Floor Power and Systems Plan – Unit B

a. Reissue sheet in its entirety.

Item 4. Sheet E201C – First Floor Power and Systems Plan – Unit C

a. Reissue sheet in its entirety.

Item 5. Sheet E301 – Electrical Schedules and Details

a. Reissue sheet in its entirety.

Item 6. Sheet E302 – Electrical Schedules and Details

a. Reissue sheet in its entirety.

Item 7. Sheet E303 – Electrical Schedules and Details

a. Reissue sheet in its entirety.

Attachments:
M302
M303
E100
E201A
E201B
E201C
E301
E302
E303

1 AD201A UNIT "A" DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

SEE SHEET AD201 FOR GENERAL DEMOLITION NOTES.

KEYED DEMOLITION NOTES

1 DEMOLISH CONCRETE FLOOR SLAB - REFER TO STRUCTURAL DRAWINGS
2 DEMOLISH TERRAZZO FLOORING AS REQUIRED
3 DEMOLISH CERAMIC TILE FLOORING COMPLETELY, INFILL RECESS WITH HYDRAULIC CEMENT UNDERLAYMENT TO LEVEL FLOOR & RECEIVE NEW FINISH
4 DEMOLISH WOOD CHAIR RAIL
5 DEMOLISH FRP FIBER-REINFORCED PLASTIC WAINSCOT COMPLETE
6 REMOVE EXISTING METAL SHELVING AND COUNTERTOP COMPLETE
7 REMOVE VCT VINYL COMPOSITION TILE AND RESILIENT BASE COMPLETE
8 REMOVE CARPET AND RESILIENT BASE COMPLETE
9 REMOVE EXISTING MECHANICAL RADIATION AND CABINET COMPLETE. SEE MECHANICAL DRAWINGS
10 REMOVE RESILIENT BASE COMPLETE, INCLUDING ADHESIVES, PATCH AND REPAIR WALL CONSTRUCTION AS REQUIRED TO RECEIVE NEW FINISHES
11 DEMOLISH RESILIENT ATHLETIC FLOORING SYSTEM AND RESILIENT BASE COMPLETE
12 SELECTIVELY REMOVE EXISTING STRUCTURAL GLAZED FACING TILE AS INDICATED. SALVAGE TAN TILE ONLY FOR PATCH AND REPAIR WORK.
13 DEMOLISH METAL STUD AND PLASTER WALL CONSTRUCTION AS INDICATED
14 DEMOLISH CERAMIC WALL TILE AND METAL STUD PARTITION SYSTEM COMPLETELY.
15 DEMOLISH MASONRY WALL CONSTRUCTION AS INDICATED COMPLETE TO MINIMUM 8" BELOW FLOOR LEVEL. PATCH AND REPAIR FLOOR AS REQUIRED TO RECEIVE NEW FINISH.
16 REMOVE CONCRETE MASONRY WALL CONSTRUCTION AS INDICATED / REQUIRED FOR NEW WORK (SEE WALL SECTIONS) TO MINIMUM 8" BELOW FLOOR SLAB. PATCH AND REPAIR FLOOR TO RECEIVE NEW FINISH.
17 DEMOLISH WALL PADDING SYSTEM COMPLETELY.
18 REMOVE METAL STUD AND GYPSUM BOARD WALL CONSTRUCTION AS INDICATED
19 REMOVE METAL STUD AND GYPSUM BOARD WALL CONSTRUCTION AS INDICATED
20 REMOVE METAL STUD AND GYPSUM BOARD WALL CONSTRUCTION COMPLETE
21 REMOVE METAL STUD AND GYPSUM BOARD BULKHEAD CONSTRUCTION COMPLETE
22 REMOVE EXTERIOR BLOCK AND BRICK WALL CONSTRUCTION AS INDICATED / REQUIRED FOR NEW WORK.
23 REMOVE EXISTING INTERIOR PLASTIC LAMINATE WINDOW STOOLS COMPLETE
24 REMOVE PORTION OF MASONRY WALL AS REQUIRED FOR INSTALLATION OF NEW DOOR AND/OR BORROWED LITE AND LINTEL.
25 REMOVE EXISTING LAY-IN CEILING SYSTEM COMPLETE.
26 REMOVE PORTION OF EXTERIOR BLOCK AND BRICK WALL CONSTRUCTION AS REQUIRED FOR NEW DOOR AND/OR WINDOW OPENING. REMOVE WALL TO MINIMUM 8" BELOW FLOOR SLAB. PATCH AND REPAIR SLAB TO LIKE-NEW CONDITION, LEVEL AND FLUSH TO MATCH ADJACENT SLAB. COORDINATE LIMITS OF DEMOLITION WITH NEW CONSTRUCTION WORK.
27 REMOVE VINYL WALLCOVERING COMPLETE, INCLUDING FROM BULKHEADS AND CORK SUBSTRATES WHERE APPLICABLE. AT EXISTING EXTERIOR CLASSROOM WALLS, REMOVE WOOD TRIM. CORK SUBSTRATE TO REMAIN. PREPARE SUBSTRATE TO RECEIVE NEW FINISHES.
28 REMOVE TACKABLE WALL PANEL, VINYL WALLCOVERING, AND WOOD TRIM COMPLETE. PREPARE SUBSTRATE TO RECEIVE NEW FINISHES
29 DEMOLISH SUSPENDED PLASTER CEILING SYSTEM COMPLETELY
30 REMOVE EXISTING GLAZING FROM EXISTING BORROWED LITE, STOREFRONT DOOR AND/OR FRAME TO REMAIN. COORDINATE EXTENT OF GLAZING REPLACEMENT WITH NEW WORK.
31 REMOVE PORTION OF EXISTING MASONRY WALL AS REQUIRED FOR NEW OPENING - SEE NEW FLOOR PLANS FOR FURTHER INFORMATION
32 EXISTING BULKHEAD AT EXTERIOR WALL TO REMAIN. SEE REFLECTED CEILING PLANS.
33 REMOVE ALUMINUM WINDOW SYSTEM COMPLETELY.
34 REMOVE DOOR AND ALUMINUM STOREFRONT FRAMING SYSTEM COMPLETE
35 REMOVE EXISTING DOOR(S) AND HARDWARE FROM FRAME TO REMAIN
36 REMOVE WOOD (OR PLASTIC LAMINATE WHERE APPLICABLE) DOOR AND HOLLOW METAL FRAME COMPLETE, INCLUDING HARDWARE, TRANSOM PANELS, SIDELIGHTS, ANCHORS, GLAZING, ETC..
37 REMOVE HOLLOW METAL DOOR, FRAME, AND HARDWARE COMPLETELY
38 PROTECT EXISTING ELECTRICAL PANEL TO REMAIN (REFER TO ELECTRICAL DRAWINGS)
39 REMOVE PORTION OF EXISTING GYPSUM BOARD CEILING AND/OR BULKHEAD AS REQUIRED TO INSTALL NEW SPRINKLERS.
40 DEMOLISH ALL CASEWORK IN THIS ROOM INCLUDING CABINETS, COUNTERTOPS AND SINKS COMPLETE.
41 REMOVE EXISTING CUBICLE CURTAINS AND TRACK COMPLETE.
42 REMOVE VISUAL DISPLAY SURFACE INCLUDING MARKER BOARDS, CHALKBOARDS, TACKBOARDS AND ALL ANCHORS / ADHESIVES, COMPLETE..
43 CAREFULLY REMOVE AND SALVAGE EXISTING CEILING MOUNTED PROJECTOR SCREEN FOR REINSTALLATION.
44 REMOVE CEILING MOUNTED TV MONITORS
45 REMOVE FIRE EXTINGUISHER CABINET COMPLETE
46 REMOVE EXISTING BASKETBALL BACKSTOP SYSTEMS (2 WALL MOUNTED AND 2 CEILING MOUNTED UNITS) AND ALL MISCELLANEOUS WALL MOUNTED P.E. EQUIPMENT COMPLETE, INCLUDING ALL HARDWARE, BLOCKING AND ASSOCIATED BRACING.
47 REMOVE PLASTIC LAMINATE CASEWORK AND ALL ACCESSORIES, INCLUDING BUT NOT LIMITED TO COUNTERTOPS, FILL PANELS, TRIM, FASTENERS, ETC..
48 REMOVE DISPLAY CASE COMPLETE. COORDINATE WITH ELECTRICAL.
49 REMOVE WOOD CASEWORK AND ALL ACCESSORIES INCLUDING BUT NOT LIMITED TO COUNTERTOPS, FILLER PANELS, TRIM, FASTENERS, ETC.. WHERE APPLICABLE, BULKHEAD ABOVE TO REMAIN UNLESS NOTED OTHERWISE.
50 REMOVE METAL CASEWORK AND ALL ACCESSORIES INCLUDING BUT NOT LIMITED TO COUNTERTOPS, FILLER PANELS, TRIM, FASTENERS, ETC..
51 REMOVE PLUMBING FIXTURE(S) COMPLETE. COORDINATE WITH PLUMBING DRAWINGS
52 REMOVE ALL TOILET PARTITIONS / URINAL SCREENS COMPLETE, INCLUDING ANCHORS, HARDWARE, ACCESSORIES, ETC..
53 REMOVE ALL TOILET ACCESSORIES THIS ROOM COMPLETELY
54 REMOVE PORTION OF EXISTING METAL STUD AND GYPSUM BOARD WALL AS REQUIRED TO INSTALL NEW DOOR AND FRAME AND/OR BORROWED LITE.
55 EXISTING STRUCTURE TO BE SELECTIVELY REMOVED - REFER TO STRUCTURAL DRAWINGS, TYPICAL
56 PROTECT EXISTING STRUCTURE TO REMAIN (TYPICAL).
57 SEE MECHANICAL FOR SELECTIVE REMOVAL OF CENTRAL VAC SYSTEM
58 SALVAGE CLOCK AND TURN OVER TO THE OWNER
59 REMOVE COUNTERTOP COMPLETE
60 REMOVE EXISTING SKYLIGHT. CAP OPENING WITH CURB WITH INSULATED LID.
61 SELECTIVELY REMOVE BRICK EXTERIOR WALL CONSTRUCTION AS REQUIRED FOR NEW LOUVER AND LINTEL.
62 REMOVE EXISTING VINYL WALLCOVERING ABOVE SQFT WAINSCOT COMPLETE.
63 REMOVE EXISTING WINDOWS COMPLETE INCLUDING STOOL
64 DIAGONAL CROSSHATCHING INDICATES EXISTING FLOOR SLAB TO BE REMOVED COMPLETE.
65 REMOVE EXISTING CERAMIC TILE AT WALLS
66 REMOVE EXISTING STAIR TO EXISTING (DEMOLISHED) MEZZANINE COMPLETE
67 AT STORYTELLING AREA, REMOVE CARPET, VINYL TRIM, VINYL WALLCOVERING, PLASTIC LAMINATE TOPS AT STEPPED WALLS AND COUNTERS, AND PORTION OF EXISTING GYPSUM BOARD CEILING AS REQUIRED FOR NEW WORK. SKYLIGHTS TO REMAIN.
68 REMOVE ALL EXISTING CERAMIC TILE FLOOR INSERTS - THIS SPACE
69 REMOVE EXISTING HOLLOW METAL BORROWED LITE COMPLETE.
70 REMOVE EXISTING FINISHES AS REQUIRED TO INSTALL NEW FINISHES IN CLOSET TO MATCH THOSE IN ADJACENT ROOM OR AS OTHERWISE INDICATED
71 REMOVE EXISTING DOOR(S), HARDWARE, AND GLAZING FROM FRAME TO REMAIN.
72 REMOVE EXISTING COUNTERTOP AND PREPARE SUBSTRATE FOR INSTALLATION OF NEW.
73 REMOVE EXISTING PLASTIC LAMINATE TOP SURFACE AND PREPARE SUBSTRATE FOR INSTALLATION OF NEW LAMINATE.
74 REMOVE EXISTING LIBRARY SHELVING, CIRCULATION DESK, TABLES AND CHAIRS UNLESS OTHERWISE INDICATED
75 REMOVE AND SALVAGE EXISTING DRUG CABINET FOR REINSTALLATION.
76 REMOVE GYPSUM BOARD CEILING AND/OR BULKHEAD COMPLETE.
77 DEMOLISH EXISTING RECESSED MOP BASIN COMPLETE. PATCH AND REPAIR WALL SURFACE AS REQUIRED BY DEMO.
78 DEMO EXISTING RAPIDEX FLOOR STRUCTURE COMPLETE.
79 SEE MEP DRAWINGS FOR SYSTEMS DEMO/DISCONNECT.
80 CAREFULLY REMOVE EXISTING CONCRETE CURB AND MAILBOX AND TURN OVER TO OWNER.
81 DEMOLISH FASCIA, SOFFIT, AND GRAVEL STOP COMPLETE. DEMO PORTION OF EXISTING DECK TO EXTENT SHOWN ON STRUCTURAL PLANS AND AS REQUIRED BY NEW WORK.
82 PROTECT EXISTING MLH.
83 CABINET UNIT HEATER TO BE REMOVED - SEE MECHANICAL. INFILL WALL AND PREP AS REQUIRED TO RECEIVE NEW FINISHES.
84 CAREFULLY REMOVE EXISTING CABINET UNIT HEATER AS REQUIRED TO INSTALL NEW FINISHES AND REINSTALL IN SAME LOCATION.
85 CAREFULLY REMOVE EXISTING DISPLAY CASE AS REQUIRED TO INSTALL NEW FINISHES AND REINSTALL IN SAME LOCATION.
90 NOT USED
91 REMOVE EXISTING INTERIOR WOOD WINDOW STOOLS COMPLETE
92 REMOVE EXISTING FIRE EXTINGUISHER CABINET AND PATCH SURFACES AS REQUIRED
93 REMOVE EXISTING LADDER AND ROOF HATCH ABOVE
94 REMOVE STOVETOP UNIT (COMPLETE) FROM COUNTERTOP (ETR). DISCONNECT/CAP ALL UTILITIES.
95 REMOVE EXISTING MAILBOX UNIT COMPLETE AND PORTION OF WALL AS REQUIRED FOR INSTALLATION OF NEW RECESSED MAILBOXES
96 GRIND DOWN/REMOVE PORTION OF EXISTING CONCRETE FLOOR SLAB (APPROX. 3/8") AS REQUIRED TO INSTALL NEW EPOXY TERRAZZO TO BE FLUSH WITH AND TO MATCH EXISTING TERRAZZO. SEE A800 SERIES FOR TERRAZZO PATCH.
97 GRIND DOWN/REMOVE PORTION OF EXISTING CONCRETE FLOOR SLAB (APPROX. 3/8") AS REQUIRED TO INSTALL NEW EPOXY TERRAZZO TO BE FLUSH WITH AND TO MATCH EXISTING TERRAZZO. SEE A800 SERIES FOR TERRAZZO PATCH. SEE SPECIFICATIONS FOR ALTERNATE.

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PROJECT:
MSD OF WARREN TOWNSHIP
PLEASANT RUN ELEMENTARY SCHOOL
RENOVATION & ADDITION
1800 N. FRANKLIN RD. INDIANAPOLIS, IN 46219

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

REVISIONS:
1 ADDENDUM #1 03-15-21
2 ADDENDUM #2 03-24-21

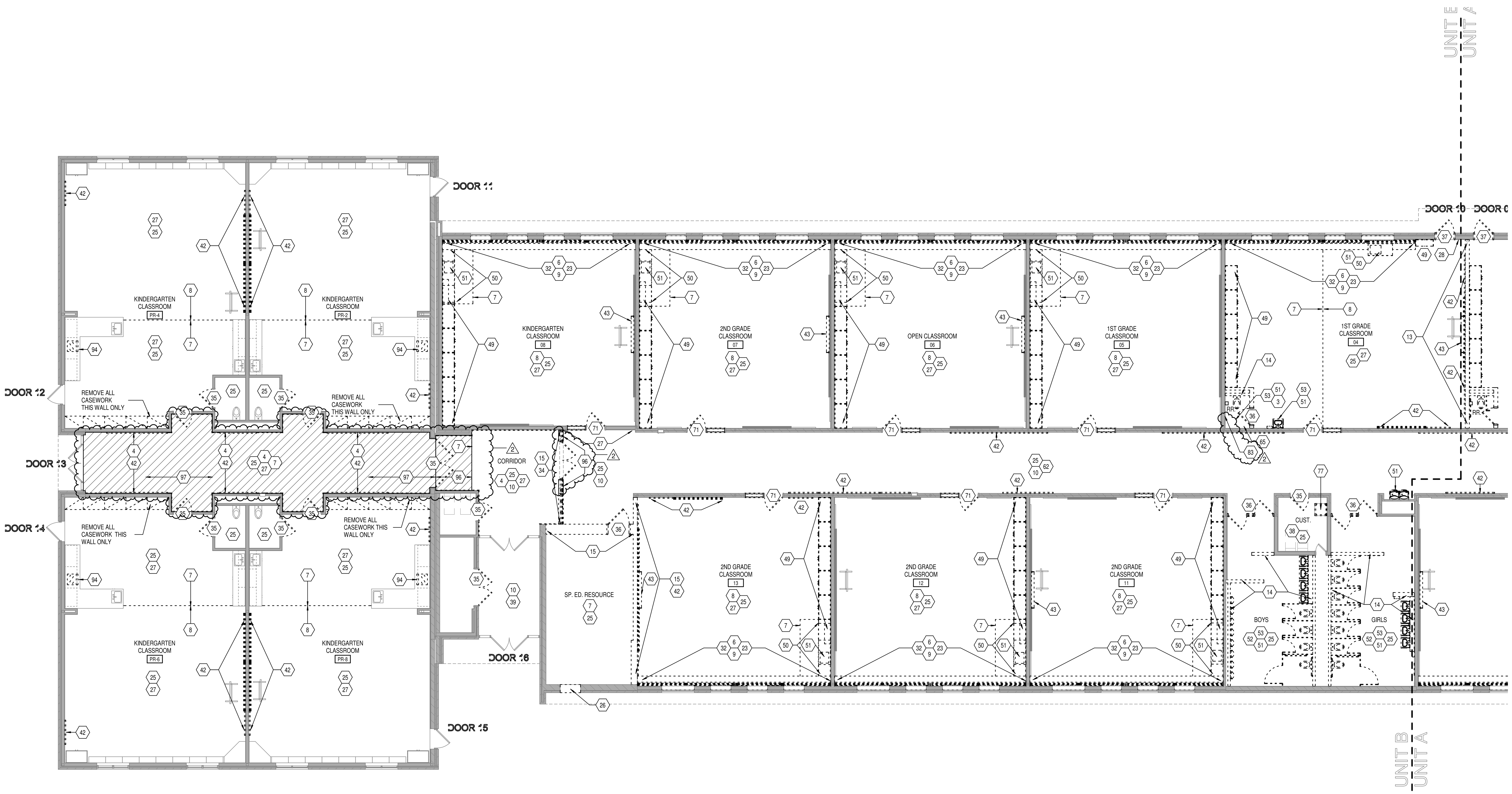
ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	LTR	CAM

DRAWING TITLE:
FIRST FLOOR DEMOLITION PLAN - UNIT A

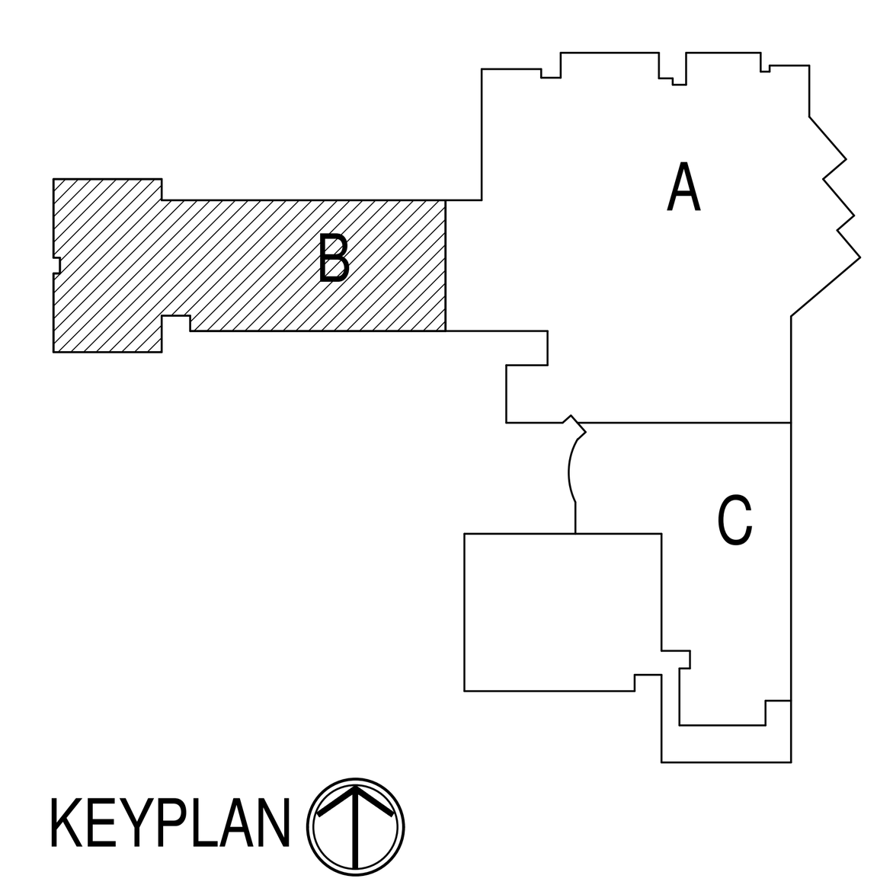
JOHN E. RIGGLE REGISTERED No. 920019 STATE OF INDIANA ARCHITECT

DRAWING NUMBER
AD201A

PROJECT NUMBER
2020061



1 AD201B UNIT "B" DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



KEYPLAN

SEE SHEET AD201 FOR GENERAL DEMOLITION NOTES.

KEYED DEMOLITION NOTES

1 DEMOLISH CONCRETE FLOOR SLAB - REFER TO STRUCTURAL DRAWINGS
2 DEMOLISH TERRAZZO FLOORING AS REQUIRED
3 DEMOLISH CERAMIC TILE FLOORING COMPLETELY, INFILL RECESS WITH HYDRAULIC CEMENT UNDERLAYMENT TO LEVEL FLOOR & RECEIVE NEW FINISH
4 DEMOLISH WOOD CHAIR RAIL
5 DEMOLISH FRP FIBER-REINFORCED PLASTIC WAINSCOT COMPLETE
6 REMOVE EXISTING METAL SHELVING AND COUNTERTOP COMPLETE
7 REMOVE VCT VINYL COMPOSITION TILE AND RESILIENT BASE COMPLETE
8 REMOVE CARPET AND RESILIENT BASE COMPLETE
9 REMOVE EXISTING MECHANICAL RADIATION AND CABINET COMPLETE. SEE MECHANICAL DRAWINGS
10 REMOVE RESILIENT BASE COMPLETE, INCLUDING ADHESIVES. PATCH AND REPAIR WALL CONSTRUCTION AS REQUIRED TO RECEIVE NEW FINISHES
11 DEMOLISH RESILIENT ATHLETIC FLOORING SYSTEM AND RESILIENT BASE COMPLETE
12 SELECTIVELY REMOVE EXISTING STRUCTURAL GLAZED FACING TILE AS INDICATED. SALVAGE 'TAN' TILE ONLY FOR PATCH AND REPAIR WORK
13 DEMOLISH METAL STUD AND PLASTER WALL CONSTRUCTION AS INDICATED
14 DEMOLISH CERAMIC WALL TILE AND METAL STUD PARTITION SYSTEM COMPLETELY.
15 DEMOLISH MASONRY WALL CONSTRUCTION AS INDICATED COMPLETE TO MINIMUM 8" BELOW FLOOR LEVEL. PATCH AND REPAIR FLOOR AS REQUIRED TO RECEIVE NEW FINISH.
16 REMOVE CONCRETE MASONRY WALL CONSTRUCTION AS INDICATED / REQUIRED FOR NEW WORK (SEE WALL SECTIONS) TO MINIMUM 8" BELOW FLOOR SLAB. PATCH AND REPAIR FLOOR TO RECEIVE NEW FINISH.
17 DEMOLISH WALL PADDING SYSTEM COMPLETELY.
18 REMOVE METAL STUD AND GYPSUM BOARD WALL CONSTRUCTION AS INDICATED
19 REMOVE METAL STUD AND GYPSUM BOARD WALL CONSTRUCTION AS INDICATED
20 REMOVE METAL STUD AND GYPSUM BOARD WALL CONSTRUCTION COMPLETE
21 REMOVE METAL STUD AND GYPSUM BOARD BULKHEAD CONSTRUCTION COMPLETE
22 REMOVE EXTERIOR BLOCK AND BRICK WALL CONSTRUCTION AS INDICATED / REQUIRED FOR NEW WORK.
23 REMOVE EXISTING INTERIOR PLASTIC LAMINATE WINDOW STOOLS COMPLETE
24 REMOVE PORTION OF MASONRY WALL AS REQUIRED FOR INSTALLATION OF NEW DOOR AND/OR BORROWED LITE AND LINTEL.
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38 PROTECT EXISTING ELECTRICAL PANEL TO REMAIN (REFER TO ELECTRICAL DRAWINGS)
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42 REMOVE VISUAL DISPLAY SURFACE INCLUDING MARKER BOARDS, CHALKBOARDS, TACKBOARDS AND ALL ANCHORS / ADHESIVES, COMPLETE.,
43 CAREFULLY REMOVE AND SALVAGE EXISTING CEILING MOUNTED PROJECTOR SCREEN FOR REINSTALLATION
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53 REMOVE ALL TOILET ACCESSORIES THIS ROOM COMPLETELY
54 REMOVE PORTION OF EXISTING METAL STUD AND GYPSUM BOARD WALL AS REQUIRED TO INSTALL NEW DOOR AND FRAME AND/OR BORROWED LITE.
55 EXISTING STRUCTURE TO BE SELECTIVELY REMOVED - REFER TO STRUCTURAL DRAWINGS, TYPICAL
56 PROTECT EXISTING STRUCTURE TO REMAIN (TYPICAL).
57 SEE MECHANICAL FOR SELECTIVE REMOVAL OF CENTRAL VAC SYSTEM
58 SALVAGE CLOCK AND TURN OVER TO THE OWNER
59 REMOVE COUNTERTOP COMPLETE
60 REMOVE EXISTING SKYLIGHT. CAP OPENING WITH CURB WITH INSULATED LID.
61 SELECTIVELY REMOVE BRICK EXTERIOR WALL CONSTRUCTION AS REQUIRED FOR NEW LOUVER AND LINTEL.
62 REMOVE EXISTING VINYL WALLCOVERING ABOVE SGFT WAINSCOT COMPLETE.
63 REMOVE EXISTING WINDOWS COMPLETE INCLUDING STOOL
64 DIAGONAL CROSSHATCHING INDICATES EXISTING FLOOR SLAB TO BE REMOVED COMPLETE.
65 REMOVE EXISTING CERAMIC TILE AT WALLS
66 REMOVE EXISTING STAIR TO EXISTING (DEMOLISHED) MEZZANINE COMPLETE
67 AT STORYTELLING AREA, REMOVE CARPET, VINYL TRIM, VINYL WALLCOVERING, PLASTIC LAMINATE TOPS AT STEPPED WALLS AND COUNTERS, AND PORTION OF EXISTING GYPSUM BOARD CEILING AS REQUIRED FOR NEW WORK. SKYLIGHTS TO REMAIN.
68 REMOVE ALL EXISTING CERAMIC TILE FLOOR INSERTS - THIS SPACE
69 REMOVE EXISTING HOLLOW METAL BORROWED LITE COMPLETE.
70 REMOVE EXISTING FINISHES AS REQUIRED TO INSTALL NEW FINISHES IN CLOSET TO MATCH THOSE IN ADJACENT ROOM OR AS OTHERWISE INDICATED
71 REMOVE EXISTING DOOR(S), HARDWARE, AND GLAZING FROM FRAME TO REMAIN.
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74 REMOVE EXISTING LIBRARY SHELVING, CIRCULATION DESK, TABLES AND CHAIRS UNLESS OTHERWISE INDICATED
75 REMOVE AND SALVAGE EXISTING DRUG CABINET FOR REINSTALLATION.
76 REMOVE GYPSUM BOARD CEILING AND/OR BULKHEAD COMPLETE
77 DEMOLISH EXISTING RECESSED MOP BASIN COMPLETE. PATCH AND REPAIR WALL SURFACE AS REQUIRED BY DEMO.
78 DEMO EXISTING RAPIDEX FLOOR STRUCTURE COMPLETE.
79 SEE MEP DRAWINGS FOR SYSTEMS DEMO/DISCONNECT.
80 CAREFULLY REMOVE EXISTING CONCRETE CURB AND MAILBOX AND TURN OVER TO OWNER.
81 DEMOLISH FASCIA, SOFFIT, AND GRAVEL STOP COMPLETE. DEMO PORTION OF EXISTING DECK TO EXTENT SHOWN ON STRUCTURAL PLANS AND AS REQUIRED BY NEW WORK.
82 PROTECT EXISTING KILN
2
83 CABINET UNIT HEATER TO BE REMOVED - SEE MECHANICAL. INFILL WALL AND PREP AS REQUIRED TO RECEIVE NEW FINISHES.
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90 NOT USED.
91 REMOVE EXISTING INTERIOR WOOD WINDOW STOOLS COMPLETE
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94 REMOVE STOVETOP UNIT (COMPLETE) FROM COUNTERTOP (ETR). DISCONNECT/CAP ALL UTILITIES.
2
95 REMOVE EXISTING MAILBOX UNIT COMPLETE AND PORTION OF WALL AS REQUIRED FOR INSTALLATION OF NEW RECESSED MAILBOXES
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CSO
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317.848.7800 | csoinc.net

PROJECT:
MSD OF WARREN TOWNSHIP
PLEASANT RUN ELEMENTARY SCHOOL
RENOVATION & ADDITION
1800 N. FRANKLIN RD. INDIANAPOLIS, IN 46219

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

REVISIONS:

2	ADDENDUM #2	03-24-21

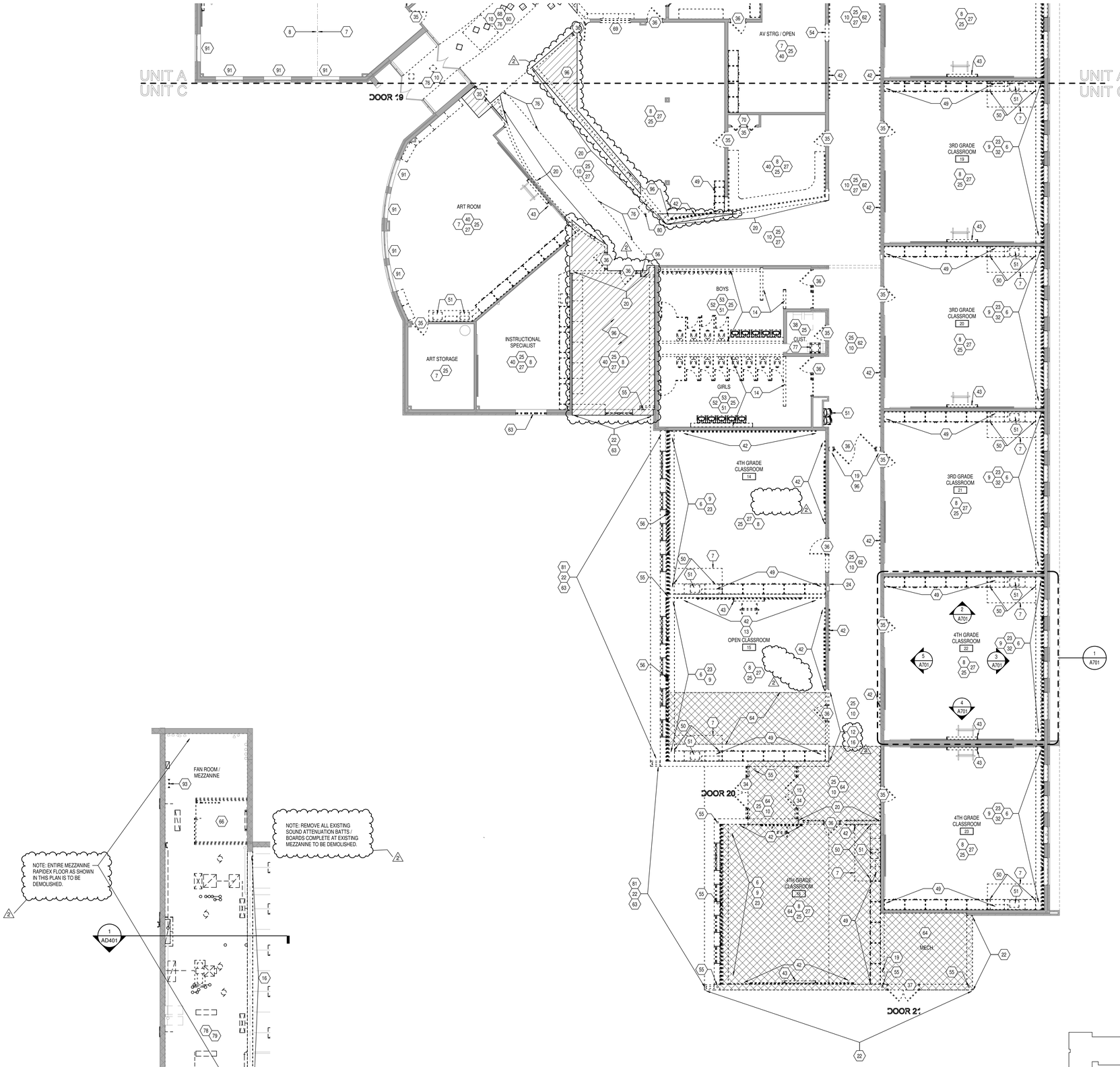
ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	LTR	CAM

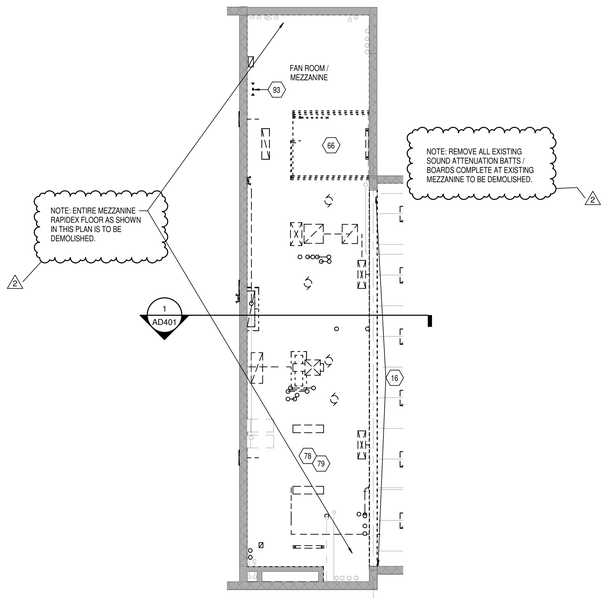
DRAWING TITLE:
FIRST FLOOR DEMOLITION PLAN - UNIT B

JOHN E. RIGSBEE REGISTERED No. 920019 STATE OF INDIANA ARCHITECT

DRAWING NUMBER
AD201B

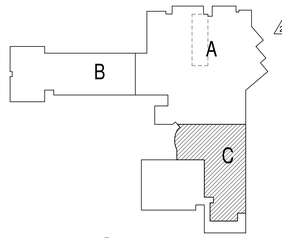
PROJECT NUMBER
2020061





2 AD201C MEZZANINE DEMO PLAN
SCALE: 1/8" = 1'-0"

1 AD201C UNIT "C" DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



KEYPLAN

SEE SHEET AD201 FOR GENERAL DEMOLITION NOTES.

KEYED DEMOLITION NOTES

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34 REMOVE DOOR AND ALUMINUM STOREFRONT FRAMING SYSTEM COMPLETE
35 REMOVE EXISTING DOOR(S) AND HARDWARE FROM FRAME TO REMAIN
36 REMOVE WOOD (OR PLASTIC LAMINATE WHERE APPLICABLE) DOOR AND HOLLOW METAL FRAME COMPLETE, INCLUDING HARDWARE, TRANSOM PANELS, SIDELIGHTS, ANCHORS, GLAZING, ETC..
37 REMOVE HOLLOW METAL DOOR, FRAME, AND HARDWARE COMPLETELY
38 PROTECT EXISTING ELECTRICAL PANEL TO REMAIN (REFER TO ELECTRICAL DRAWINGS)
39 REMOVE PORTION OF EXISTING GYPSUM BOARD CEILING AND/OR BULKHEAD AS REQUIRED TO INSTALL NEW SPRINKLERS.
40 DEMOLISH ALL CASEWORK IN THIS ROOM INCLUDING CABINETS, COUNTERTOPS AND SINKS COMPLETE.
41 REMOVE EXISTING CUBICLE CURTAINS AND TRACK COMPLETE.
42 REMOVE VISUAL DISPLAY SURFACE INCLUDING MARKER BOARDS, CHALKBOARDS, TACKBOARDS AND ALL ANCHORS / ADHESIVES, COMPLETE..
43 CAREFULLY REMOVE AND SALVAGE EXISTING CEILING MOUNTED PROJECTOR SCREEN FOR REINSTALLATION
44 REMOVE CEILING MOUNTED TV MONITORS
45 REMOVE FIRE EXTINGUISHER CABINET COMPLETE
46 REMOVE EXISTING BASKETBALL BACKSTOP SYSTEMS (2 WALL MOUNTED AND 2 CEILING MOUNTED UNITS) AND ALL MISCELLANEOUS WALL MOUNTED P.E. EQUIPMENT COMPLETE, INCLUDING ALL HARDWARE, BLOCKING AND ASSOCIATED BRACING.
47 REMOVE PLASTIC LAMINATE CASEWORK AND ALL ACCESSORIES, INCLUDING BUT NOT LIMITED TO COUNTERTOPS, FILL PANELS, TRIM, FASTENERS, ETC..
48 REMOVE DISPLAY CASE COMPLETE. COORDINATE WITH ELECTRICAL.
49 REMOVE WOOD CASEWORK AND ALL ACCESSORIES INCLUDING BUT NOT LIMITED TO COUNTERTOPS, FILLER PANELS, TRIM, FASTENERS, ETC.. WHERE APPLICABLE. BULKHEAD ABOVE TO REMAIN UNLESS NOTED OTHERWISE.
50 REMOVE METAL CASEWORK AND ALL ACCESSORIES INCLUDING BUT NOT LIMITED TO COUNTERTOPS, FILLER PANELS, TRIM, FASTENERS, ETC..
51 REMOVE PLUMBING FIXTURE(S) COMPLETE. COORDINATE WITH PLUMBING DRAWINGS
52 REMOVE ALL TOILET PARTITIONS / URINAL SCREENS COMPLETE, INCLUDING ANCHORS, HARDWARE, ACCESSORIES, ETC..
53 REMOVE ALL TOILET ACCESSORIES THIS ROOM COMPLETELY
54 REMOVE PORTION OF EXISTING METAL STUD AND GYPSUM BOARD WALL AS REQUIRED TO INSTALL NEW DOOR AND FRAME AND/OR BORROWED LITE.
55 EXISTING STRUCTURE TO BE SELECTIVELY REMOVED - REFER TO STRUCTURAL DRAWINGS, TYPICAL
56 PROTECT EXISTING STRUCTURE TO REMAIN (TYPICAL).
57 SEE MECHANICAL FOR SELECTIVE REMOVAL OF CENTRAL VAC SYSTEM
58 SALVAGE CLOCK AND TURN OVER TO THE OWNER
59 REMOVE COUNTERTOP COMPLETE
60 REMOVE EXISTING SKYLIGHT. CAP OPENING WITH CURB WITH INSULATED LID.
61 SELECTIVELY REMOVE BRICK EXTERIOR WALL CONSTRUCTION AS REQUIRED FOR NEW LOUVER AND LINTEL.
62 REMOVE EXISTING VINYL WALLCOVERING ABOVE SQFT WAINSCOT COMPLETE.
63 REMOVE EXISTING WINDOWS COMPLETE INCLUDING STOOL
64 DIAGONAL CROSSHATCHING INDICATES EXISTING FLOOR SLAB TO BE REMOVED COMPLETE.
65 REMOVE EXISTING CERAMIC TILE AT WALLS
66 REMOVE EXISTING STAIR TO EXISTING (DEMOLISHED) MEZZANINE COMPLETE
67 AT STORYTELLING AREA, REMOVE CARPET, VINYL TRIM, VINYL WALLCOVERING, PLASTIC LAMINATE TOPS AT STEPPED WALLS AND COUNTERS, AND PORTION OF EXISTING GYPSUM BOARD CEILING AS REQUIRED FOR NEW WORK. SKYLIGHTS TO REMAIN.
68 REMOVE ALL EXISTING CERAMIC TILE FLOOR INSERTS - THIS SPACE
69 REMOVE EXISTING HOLLOW METAL BORROWED LITE COMPLETE.
70 REMOVE EXISTING FINISHES AS REQUIRED TO INSTALL NEW FINISHES IN CLOSET TO MATCH THOSE IN ADJACENT ROOM OR AS OTHERWISE INDICATED
71 REMOVE EXISTING DOOR(S), HARDWARE, AND GLAZING FROM FRAME TO REMAIN.
72 REMOVE EXISTING COUNTERTOP AND PREPARE SUBSTRATE FOR INSTALLATION OF NEW.
73 REMOVE EXISTING PLASTIC LAMINATE TOP SURFACE AND PREPARE SUBSTRATE FOR INSTALLATION OF NEW LAMINATE
74 REMOVE EXISTING LIBRARY SHELVING, CIRCULATION DESK, TABLES AND CHAIRS UNLESS OTHERWISE INDICATED
75 REMOVE AND SALVAGE EXISTING DRUG CABINET FOR REINSTALLATION.
76 REMOVE GYPSUM BOARD CEILING AND/OR BULKHEAD COMPLETE
77 DEMOLISH EXISTING RECESSED MOP BASIN COMPLETE. PATCH AND REPAIR WALL SURFACE AS REQUIRED BY DEMO.
78 DEMO EXISTING RAPIDEX FLOOR STRUCTURE COMPLETE.
79 SEE MEP DRAWINGS FOR SYSTEMS DEMO/DISCONNECT.
80 CAREFULLY REMOVE EXISTING CONCRETE CURB AND MAILBOX AND TURN OVER TO OWNER.
81 DEMOLISH FASCIA, SOFFIT, AND GRAVEL STOP COMPLETE. DEMO PORTION OF EXISTING DECK TO EXTENT SHOWN ON STRUCTURAL PLANS AND AS REQUIRED BY NEW WORK.
82 PROTECT EXISTING KHU.
83 CABINET UNIT HEATER TO BE REMOVED - SEE MECHANICAL. INFILL WALL AND PREP AS REQUIRED TO RECEIVE NEW FINISHES.
84 CAREFULLY REMOVE EXISTING CABINET UNIT HEATER AS REQUIRED TO INSTALL NEW FINISHES AND REINSTALL IN SAME LOCATION.
85 CAREFULLY REMOVE EXISTING DISPLAY CASE AS REQUIRED TO INSTALL NEW FINISHES AND REINSTALL IN SAME LOCATION.
90 NOT USED
91 REMOVE EXISTING INTERIOR WOOD WINDOW STOOLS COMPLETE
92 REMOVE EXISTING FIRE EXTINGUISHER CABINET AND PATCH SURFACES AS REQUIRED
93 REMOVE EXISTING LADDER AND ROOF HATCH ABOVE
94 REMOVE STOVETOP UNIT (COMPLETE) FROM COUNTERTOP (ETR). DISCONNECT/CAP ALL UTILITIES
95 REMOVE EXISTING MAILBOX UNIT COMPLETE AND PORTION OF WALL AS REQUIRED FOR INSTALLATION OF NEW RECESSED MAILBOXES
96 GRIND DOWN/REMOVE PORTION OF EXISTING CONCRETE FLOOR SLAB (APPROX. 3/8") AS REQUIRED TO INSTALL NEW EPOXY TERRAZZO TO BE FLUSH WITH AND TO MATCH EXISTING TERRAZZO. SEE A800 SERIES FOR TERRAZZO PATCH.
97 GRIND DOWN/REMOVE PORTION OF EXISTING CONCRETE FLOOR SLAB (APPROX. 3/8") AS REQUIRED TO INSTALL NEW EPOXY TERRAZZO TO BE FLUSH WITH AND TO MATCH EXISTING TERRAZZO. SEE A800 SERIES FOR TERRAZZO PATCH. SEE SPECIFICATIONS FOR ALTERNATE.

CSO
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PROJECT:
MSD OF WARREN TOWNSHIP
PLEASANT RUN ELEMENTARY SCHOOL
RENOVATION & ADDITION
1800 N. FRANKLIN RD. INDIANAPOLIS, IN 46219

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

REVISIONS:
2 ADDENDUM #2 03-24-21

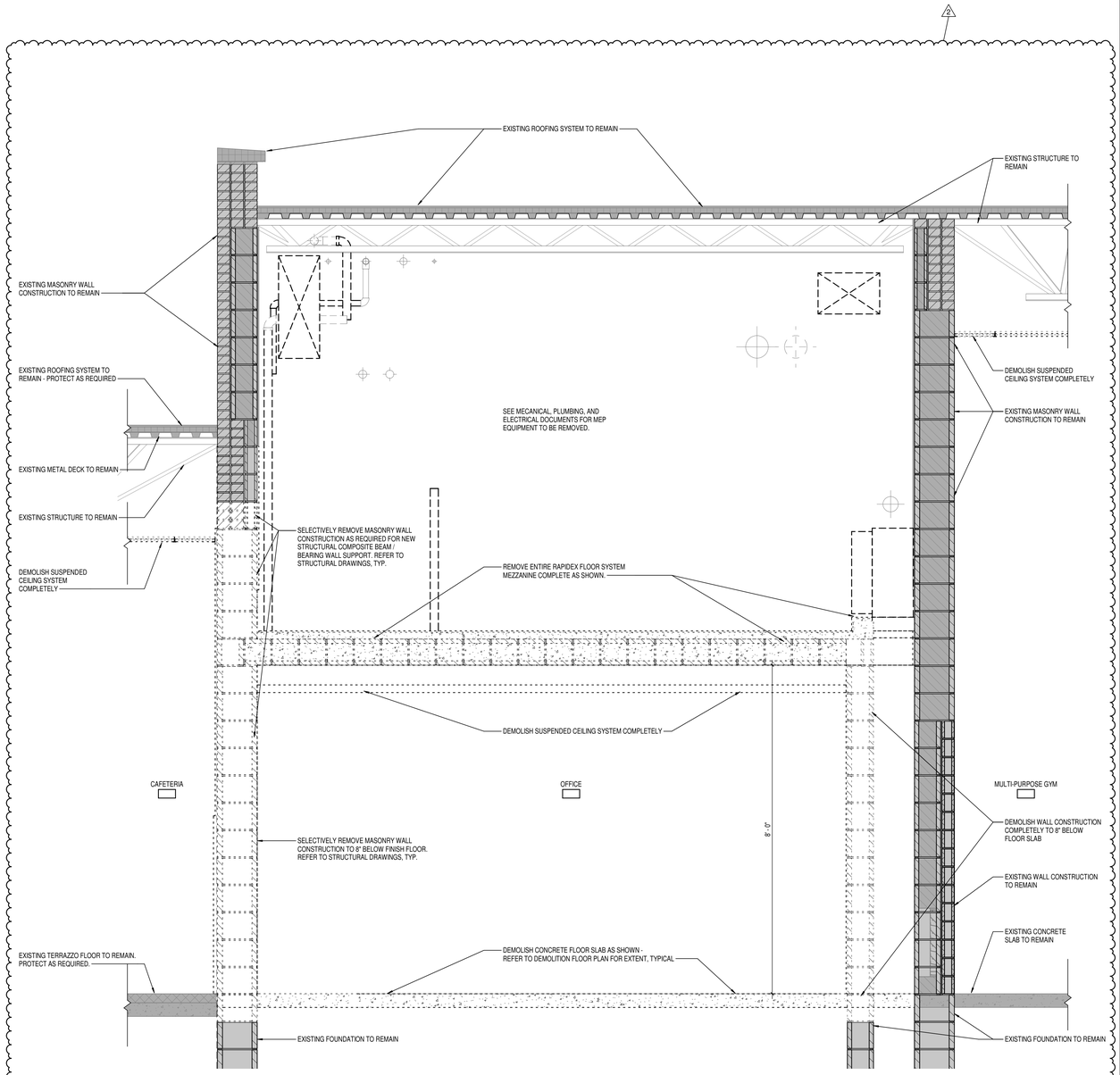
ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	LTR	CAM

DRAWING TITLE:
FIRST FLOOR DEMOLITION PLAN - UNIT C AND MEZZANINE

JOHN E. RIGSBEE REGISTERED No. 920019 STATE OF INDIANA ARCHITECT

DRAWING NUMBER
AD201C

PROJECT NUMBER
2020061



1 AD401 DEMO SECTION EXIST. MEZZ.
SCALE: 3/4" = 1'-0"

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SCOPE DRAWINGS:
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REVISIONS:
2 ADDENDUM #2 03-24-21

ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	LTR	CAM

DRAWING TITLE:
DEMO WALL SECTIONS

JOHN E. RIGSBEE REGISTERED No. 920019 STATE OF INDIANA ARCHITECT

DRAWING NUMBER
AD401

PROJECT NUMBER
2020061

1 A201A UNIT "A" FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

SEE SHEET A201 FOR GENERAL NOTES.

KEYED PLAN NOTES

1 ALIGN FINISH FACES.
2 2" BUILDING EXPANSION JOINT WITH EXPANSION JOINT COVER WHERE EXPOSED IN THE FINISH WORK
3 PATCH EXISTING TERRAZZO AS REQUIRED. REFER TO A800 SERIES DRAWINGS.
4 PATCH AND REPAIR EXISTING STRUCTURAL GLAZED FACING TILE WITH SALVAGED UNITS
5 NEW LINTEL - REFER TO STRUCTURAL DRAWINGS AND SCHEDULES
6 NEW PLASTIC LAMINATE COUNTERTOP, LIBRARY SHELVING TOP, AND STORYTIME WALL CAP. REFER TO FINISH PLANS.
7 PROVIDE 6" CHASE FOR PLUMBING - 3 5/8" METAL STUDS WITH 5/8" GYPSUM BOARD AND PLASTIC LAMINATE TO MATCH CASEWORK.
8 NEW LADDER WITH HATCH ABOVE - VERIFY LOCATION WITH MEP AND STRUCTURAL.
9 ROOF CONDUCTOR - REFER TO PLUMBING DRAWINGS
10 SEE BUILDING ELEVATIONS FOR HIGH WINDOWS ABOVE (SOUTH WALL GYMNASIUM)
11 MARKERBOARD - NEW SKIN OVER EXISTING CHALKBOARD. PROVIDE STAFF LINES AT MUSIC CLASSROOM. REFER TO SPECS.
12 REPLACEMENT TACKSTRIP @ T/SGFT OR TILE WAINSCOT. REFER TO DETAILS.
13 PROVIDE 2 LAYERS 5/8" GYPSUM BOARD AS REQUIRED TO ALIGN FACE OF WALL.
14 PATCH AND REPAIR AS REQUIRED TO RETURN TO LIKE-NEW CONDITION
15 PATCH AND REPAIR WALL CONSTRUCTION WITH INFILL TO MATCH EXISTING ADJACENT, AND TO RECEIVE NEW FINISHES
16 PATCH AND REPAIR EXISTING CONCRETE FLOOR SLAB TO PROVIDE LEVEL AND SMOOTH SURFACE, AND TO RECEIVE NEW FINISHES
17 MOTORIZED RETRACTABLE BLEACHERS WITH PLASTIC SEATS TO SEAT 600 MINIMUM - SEE PE1 AND PE2
18 6" CLEAR PLUMBING CHASE FOR ROOF DRAIN - COORDINATE WITH PLUMBING
19 PROVIDE BRASS SLEEVE INSERT CAST INTO FLOOR FOR VOLLEYBALL STANDARDS - SEE SPECIALTY EQUIPMENT ITEM PE8
20 LOW METAL STUD DOUBLE WALL 12" WIDE X 24" LONG WITH 5/8" GYPSUM BD. WALL WITH SOLID SURFACE CAP AT 36" A.F.F.
21 4" HIGH X 4" WIDE CONCRETE CURB AT PERIMETER OF OPENING AT SHIP'S LADDER AND AT CHASE FOR RETURN AIR. PROVIDE WATERSTOP BETWEEN MEZZANINE FLOOR SLAB AND CURB.
22 TACKABLE WALL SURFACE W/ SCHLUTER TRIM FROM T/ BASE TO B/ CEILING - REFER TO A800 SERIES DRAWINGS
23 TACKABLE WALL SURFACE W/ SCHLUTER TRIM AT ALL EDGES INCLUDING WINDOW JAMBS, AND HEADS WHERE APPLICABLE, BULKHEAD OR CEILING, COUNTERTOP AND ADJACENT WALLS - REFER TO A800 SERIES DRAWINGS AND 8/A701
24 DISPLAY CASE
25 STOREFRONT SYSTEM - 6" WITH INTEGRAL ALUMINUM SILL
26 NEW ARCHITECTURAL LOUVER 5'-4" X 5'-4" CUSTOM COLOR SEE SPECIFICATION SECTION 08 91 19.
27 CHAIR LIFT WITH RECESSED CONCRETE SLAB AREA AS REQUIRED
28 EXISTING COLUMN - PROTECT AS REQUIRED (TYPICAL) SEE STRUCTURAL
29 FLUID-APPLIED THERMAL BREAK COATING - SEE SPECIFICATION SECTION 09 97 13
30 MECHANICAL EQUIPMENT - REFER TO MECHANICAL DRAWINGS
31 PATCH AND REPAIR PLASTER WHERE ELECTRICAL ITEMS HAVE BEEN REMOVED.
32 PATCH AND REPAIR GYPSUM BOARD WHERE ELECTRICAL ITEMS HAVE BEEN REMOVED.
33 PATCH AND REPAIR EXISTING GYPSUM BOARD CEILING / BULKHEAD AS REQUIRED. SKIM COAT ENTIRE SURFACE TO PROVIDE LEVEL 5 FINISH. CORRDINATE WITH REFLECTED CEILING PLANS AND A800 SERIES DRAWINGS.
34 LINE OF BULKHEAD ABOVE
35 PROVIDE NEW SOLID SURFACE WINDOW STOOLS AT ALL WINDOWS THIS ROOM - SEE D2/A503.
36 SHIPS LADDER
37 MECHANICAL MEZZANINE ABOVE
38 INFILL SLAB WHERE RECESSED MOP SINK WAS DEMOLISHED. PREPARE FOR NEW MOP SINK. REFER TO PLUMBING DRAWINGS. PROVIDE FRP PANELING AT SINK AS DESRCIBED IN SPECIFICATION.
39 SEE A800 SHEETS FOR ADDITIONAL GYPSUM WALL BOARD AT CORRIDOR TILE WAINSCOT LOCATIONS. DETAILS ARE TO BE APPLIED IN ADDITION TO WALL TYPES NOTED ON A200 SHEETS.
40 FLIP UP COUNTER AT RECEPTION DESK. INSTALL COUNTER W/ CONTINUOUS HINGE AND SPACE SUCH THAT COUNTER OPENS 100 DEGREES MIN.
41 12" STEEL PLATE WELDED TO FACE OF STRUCTURAL COLUMN TO COVER SEAM BETWEEN CMU AND STEEL COLUMN. PROVIDE STEEL PLATE FLOOR TO T/ CMU, EXCEPT WHERE WALL MOUNTED EQUIPMENT WILL COVER STEEL-CMU SEAM.
42 NEW DRINKING FOUNTAINS - SEE PLUMBING DRAWINGS
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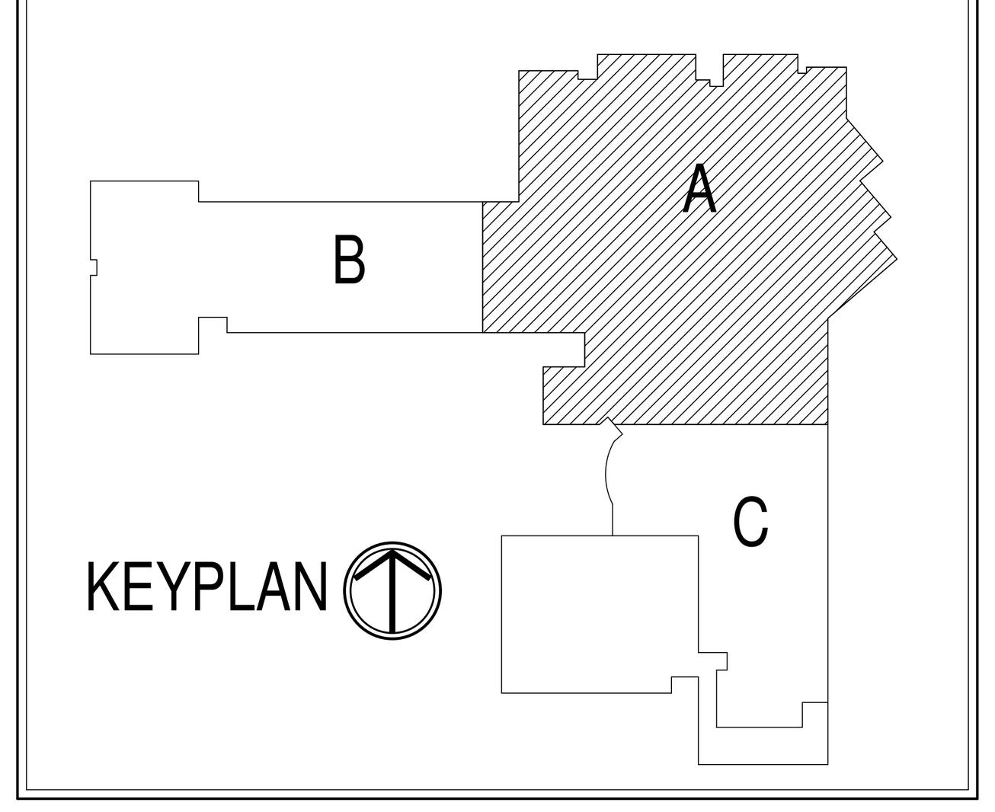
48 BRICK AT WEST WALL OF CORRIDOR C111 AND EAST AND WEST WALLS OF VESTIBULES C112 AND C122 TO MATCH TYPE, COLOR, BOND AND PATTERN OF BRICK AT EXTERIOR OF BUILDING
49 INFILL OPENING LEFT BY REMOVAL OF DROP-IN COOKTOP TO MATCH EXISTING COUNTERTOP. INSERT TO HAVE A TAPERED ALMUMINUM FLANGE AT PERIMETER TO COVER JOINT. OPENING MAY BE SQUARED OFF AS REQUIRED TO PROVIDE NEAT WORKMANLIKE APPEARANCE AND MITER CORNERS OF TRIM FLANGE.
50 PREPARE AND PAINT EXISTING EXPOSED COLUMN.
51 PROVIDE SHEET METAL 'CAP' AT CHASE - SEE 10/A407
52 REPLACE INDIVIDUAL DAMAGED, DISCOLORED OR OTHERWISE UNSALVAGEABLE SGFT UNITS AS REQUIRED BY DEMO OF CROSS-CORRIDOR WALL WITH CLEAN SALVAGED SGFT UNITS TO ACHIEVE CONTINUOUS LOOK.

2



KEYPLAN

CSO
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PROJECT:

MSD OF WARREN TOWNSHIP
PLEASANT RUN ELEMENTARY SCHOOL
RENOVATION & ADDITION
1800 N. FRANKLIN RD. INDIANAPOLIS, IN 46219

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REVISIONS:

1	ADDENDUM #1	03-15-21
2	ADDENDUM #2	03-24-21

ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	LTR	CAM

DRAWING TITLE:

FIRST FLOOR PLAN - UNIT A

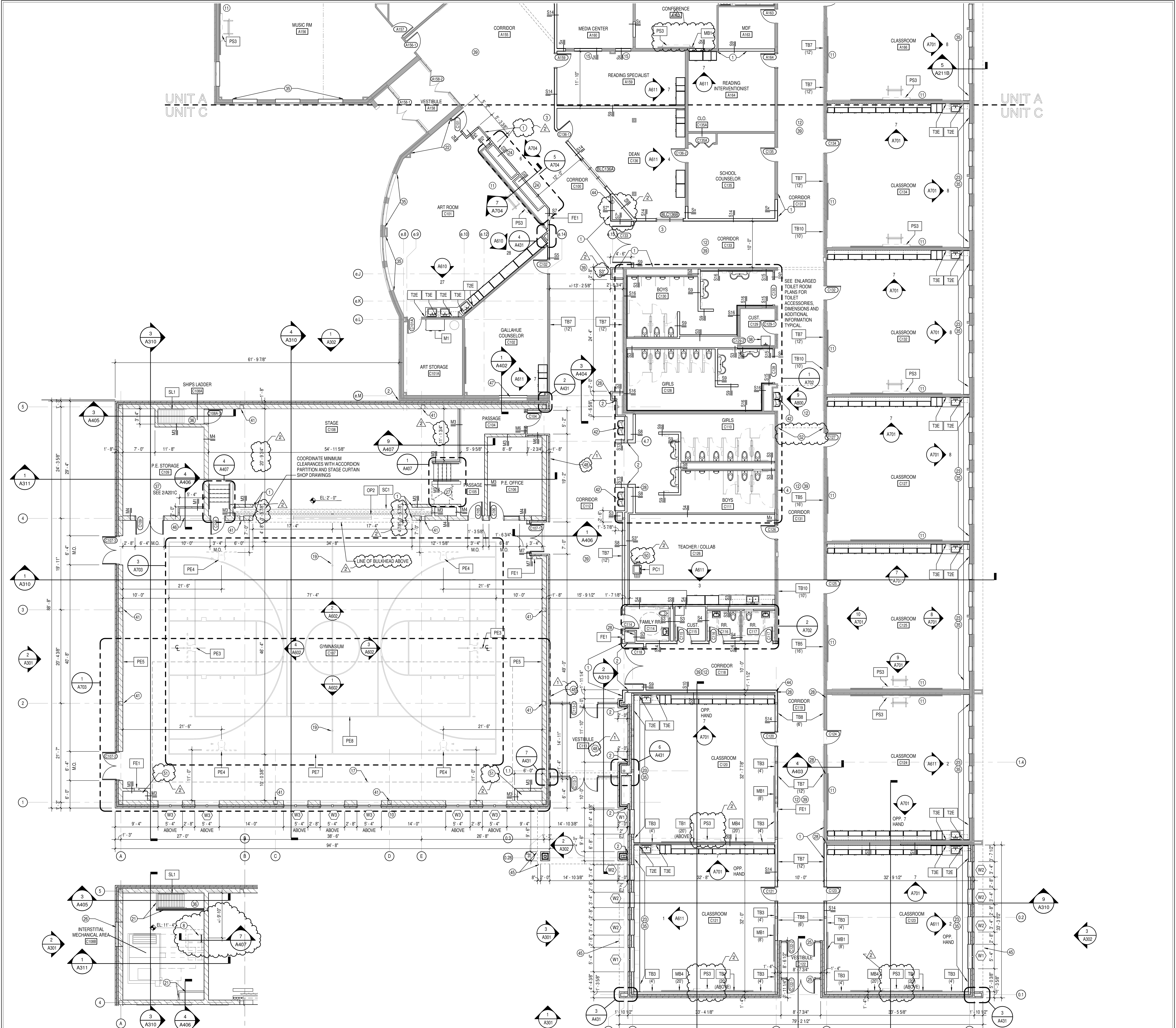
JOHN E. RIGSBEE
REGISTERED
No. 920019
STATE OF INDIANA
ARCHITECT

DRAWING NUMBER

A201A

PROJECT NUMBER

2020061



1 UNIT "C" FIRST FLOOR PLAN — A201C — SCALE: 1/8" = 1'-0"

2 GYM INTERSTITIAL MECH. PLAN — A201C — SCALE: 1/8" = 1'-0"

SEE SHEET A201 FOR GENERAL NOTES.

KEYED PLAN NOTES

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2 2" BUILDING EXPANSION JOINT WITH EXPANSION JOINT COVER WHERE EXPOSED IN THE FINISH WORK
3 PATCH EXISTING TERRAZZO AS REQUIRED. REFER TO A800 SERIES DRAWINGS.
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5 NEW LINTEL - REFER TO STRUCTURAL DRAWINGS AND SCHEDULES
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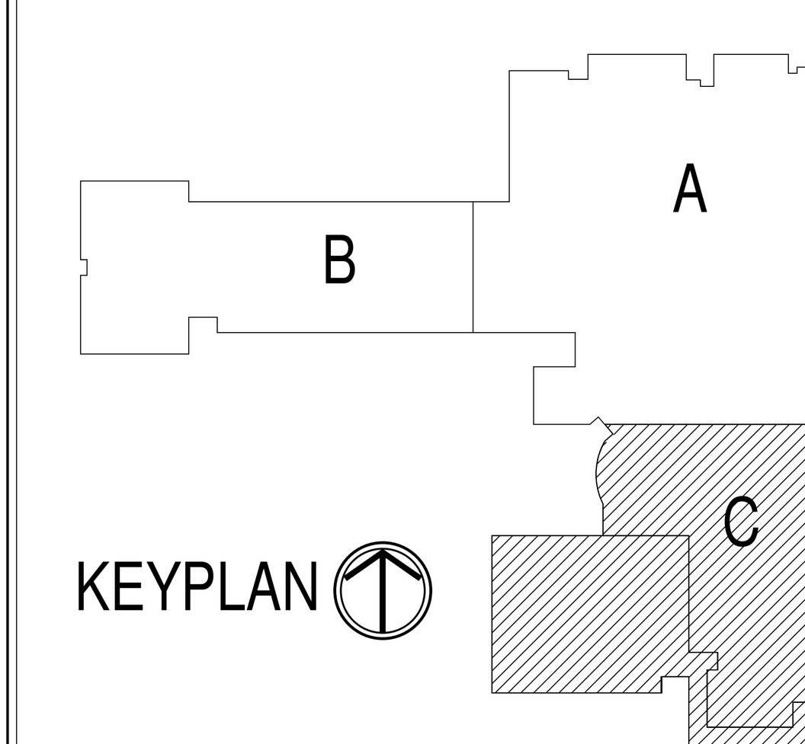
2



KEYPLAN

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PROJECT:
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2	ADDENDUM #2	03-24-21

ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	LTR	CAM

DRAWING TITLE:
FIRST FLOOR PLAN - UNIT C

JOHN E. RIGSBEE REGISTERED No. 920019 STATE OF INDIANA ARCHITECT

DRAWING NUMBER
A201C

PROJECT NUMBER
2020061

ROOF ABBREVIATIONS

DR	DUCT THRU ROOF
DS	METAL DOWNSPOUT
EF	EXHAUST FAN; SEE MECHANICAL
EJ	EXPANSION JOINT
FS	FLUE STACK; SEE MECHANICAL
GU	METAL GUTTER
PV	PLUMBING VENT
RAV	RELIEF AIR VENT; SEE MECHANICAL
RH	ROOF HATCH

2

GENERAL ROOF NOTES

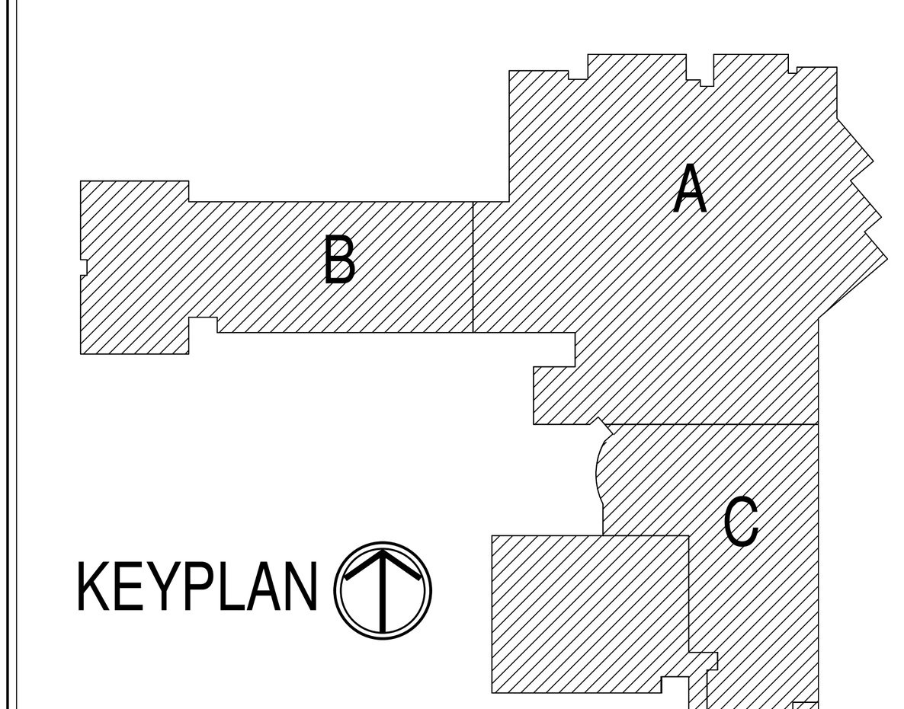
A. ALL WORK SHALL BE IN ACCORDANCE WITH THE BEST QUALITY STANDARDS OF THE TRADE, AND SHALL CONFORM WITH THE LATEST EDITION OF ALL FEDERAL, STATE, AND LOCAL CODES AND STANDARDS. THE SAME ARE MADE A PART OF THESE CONTRACT DOCUMENTS, AS IF REPEATED HEREIN.
B. CONTRACT DOCUMENTS CONSIST OF BOTH THE PROJECT MANUAL AND DRAWINGS, AND BOTH ARE INTENDED TO BE COMPLEMENTARY. ANYTHING APPEARING ON EITHER MUST BE EXECUTED THE SAME AS IF SHOWN ON BOTH.
C. CONSTRUCTION DOCUMENTS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE, HOWEVER, SYSTEMS HAVE BEEN SHOWN DIAGRAMMATICALLY AND IN SOME CASES, ENLARGED FOR CLARITY. PROVIDE ADDITIONAL ITEMS AS REQUIRED TO PROVIDE A COMPLETE AND COORDINATED SYSTEM.
D. CONTRACTOR SHALL PROVIDE ANY AND ALL TEMPORARY UTILITY SERVICE REQUIRED TO CONSTRUCT THE WORK. CONTRACTOR MAY EXTEND SERVICES FROM EXISTING LOCATIONS TO WHERE THEY ARE REQUIRED. REMOVE TEMPORARY UTILITIES AND RELATED EXTENSIONS AS SOON AS PRACTICABLE. RESTORE ALL AFFECTED AREAS TO ORIGINAL CONDITION.
E. CONTRACTOR SHALL REMOVE CONSTRUCTION DEBRIS FROM THE BUILDING AND ROOF DAILY.
F. STORE VOLATILE OR FLAMMABLE LIQUIDS IN UL LISTED FIRE CABINETS.
G. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SECURITY OF ALL STORED MATERIALS AND EQUIPMENT INSIDE OR OUTSIDE THE BUILDING.
H. CONTRACTOR SHALL FURNISH NECESSARY TEMPORARY PROTECTION FROM WEATHER TO PROTECT INTERIOR OF BUILDING FROM ELEMENTS OF WEATHER AT ALL TIMES.
I. CONTRACTOR RESPONSIBLE FOR TRAFFIC PROTECTION DURING CONSTRUCTION. AREAS OF WORK SUBJECTED TO TRAFFIC BY VARIOUS TRADES SHALL BE PROTECTED BY TEMPORARY WALK PADS.
J. PROVIDE TREATED WOOD BLOCKING EQUAL IN THICKNESS TO INSULATION SYSTEM AT ROOF PERIMETER AND AROUND ALL ROOF PENETRATIONS. ANCHOR PER SECTION I-49 OF THE FM GLOBAL LOSS PREVENTION GUIDE.
K. EXTEND ALL PLUMBING VENTS TO PROVIDE A MIN. OF 12" OF HEIGHT FROM TOP OF INSULATION. ALL FITTINGS TO BE AIR AND WATER TIGHT. SEE PLUMBING PLANS FOR LOCATIONS.
L. ROOF INSULATION SADDLES AND CRICKETS ARE DIAGRAMMATIC. ROOF INSULATION MANUFACTURER SHALL DESIGN AND SIZE THESE PER THE ROOF MEMBRANE MANUFACTURERS RECOMMENDATIONS. CRICKETS AND SADDLES SHOULD HAVE A MINIMUM OF TWO TIMES THE SLOPE OF THE PRIMARY TAPERED SYSTEM OR STRUCTURAL SLOPE. THE RATIO OF A CRICKET'S WIDTH TO LENGTH SHOULD BE NO LESS THAN 1 TO 3.
M. PROVIDE SADDLES/CRICKETS AROUND ALL NEW ROOF TOP EQUIPMENT. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR LOCATIONS OF ALL ROOF PENETRATIONS.
N. PROVIDE TAPERED INSULATION WHERE REQUIRED TO TRANSITION FROM ONE INSULATION HEIGHT TO ANOTHER.
O. NOTCH ALL INSULATION AS REQUIRED TO ACCOMMODATE SURFACE MOUNTED CONDUIT, FASTENERS, OFFSETS AND OTHER PROJECTIONS EXTENDING ABOVE THE SURFACE OF THE DECK.
P. PERIMETER EDGE METAL TO COMPLY WITH ANSI/SPRI ES-1 FM GLOBAL 1-49.
Q. SEE MECHANICAL, ELECTRICAL AND PLUMBING (MEP) SHEETS FOR ROOF TOP EQUIPMENT.
R. INSPECT ALL WOOD BLOCKING SCHEDULED TO REMAIN. NOTIFY ARCHITECT OF ANY DETERIORATED BLOCKING NEEDING REPLACEMENT. CONTRACTOR TO REPLACE AND DAMAGED BLOCKING ON A TIME AND MATERIAL BASIS, SEE SPECIFICATIONS.
S. ALL ROOF DETAIL DRAWINGS CONTAINED IN THIS SET ARE DIAGRAMMATIC. ADJUST ROOF DETAILS BASED ON SPECIFIC ROOFING SYSTEM SELECTED ACCORDING TO MANUFACTURER'S WRITTEN SPECIFICATIONS AND APPROVED DETAIL DRAWINGS. ALL ASSEMBLY COMPLICATIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
T. THE ROOF CONTRACTOR SHALL PROTECT ALL ROOF DRAINS, GUTTERS AND DOWNSPOUTS FROM DEBRIS CREATED DURING CONSTRUCTION. THE ROOF CONTRACTOR SHALL CLEAR ALL DRAINS, GUTTERS AND DOWNSPOUTS PRIOR TO COMPLETION OF WORK AND TO ENSURE THAT THEY ARE FREE OF DEBRIS AND FUNCTIONING PROPERLY.
U. MECHANICAL, ELECTRICAL AND PLUMBING INFORMATION SHOWN ON THIS PLAN IS GENERAL IN NATURE. REFER TO P, M AND E DRAWINGS FOR FURTHER INFORMATION AND COORDINATE ALL REQUIRED ROOF OPENINGS OR ROOF MOUNTED EQUIPMENT.
V. HATCHED AREAS INDICATE EXTENT OF NEW ROOF - SEE BELOW
W. PATCH AND REPAIR ALL AREAS OF EXISTING ROOF DAMAGED BY NEW CONSTRUCTION OR AS REQUIRED TO TIE INTO NEW WALLS AND/OR ROOF CONSTRUCTION. PATCHING WORK TO BE IN COMPLIANCE WITH ANY EXISTING ROOF MANUFACTURER'S WARRANTIES WHERE APPLICABLE.

KEYED ROOF PLAN NOTES

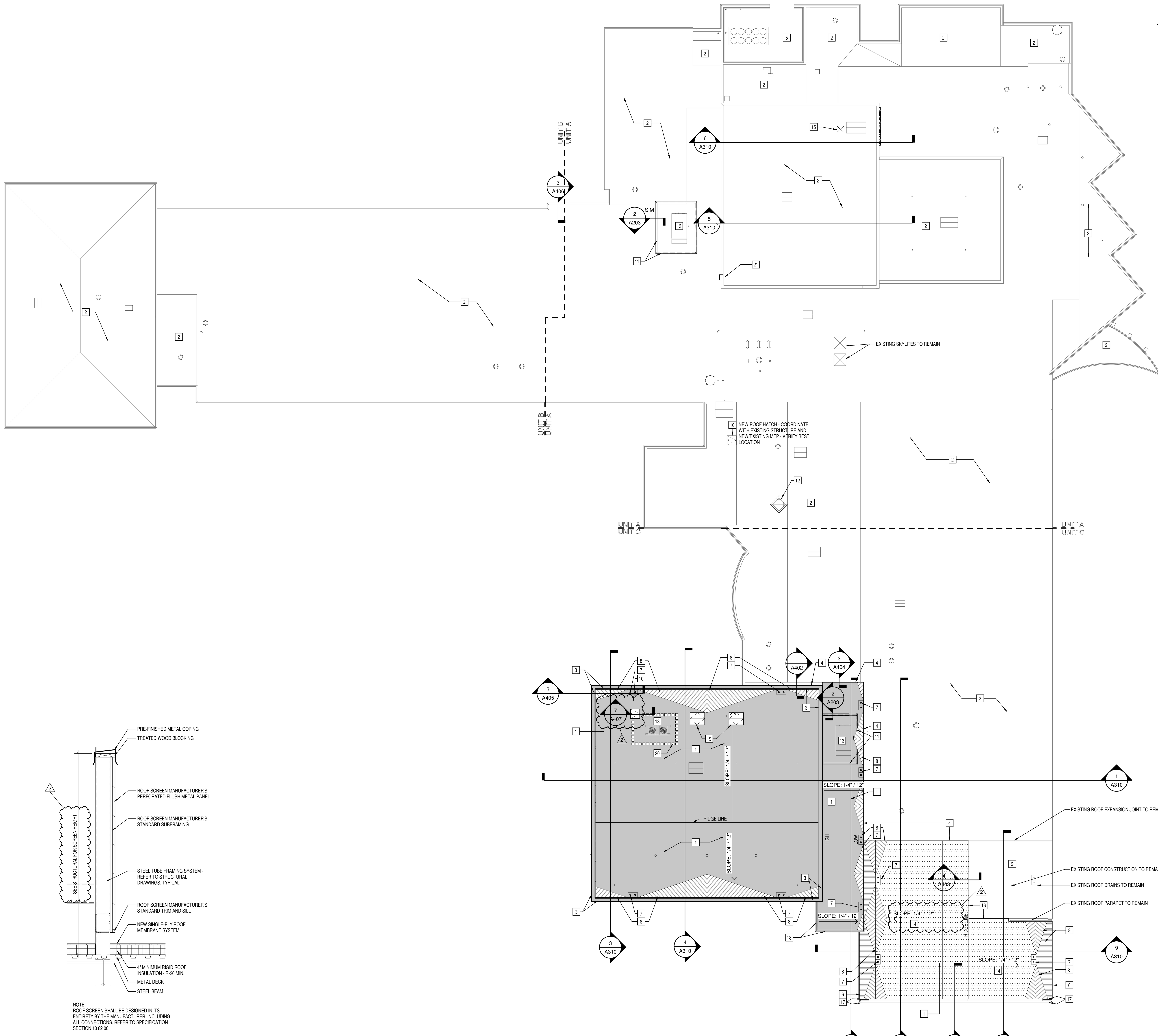
1 (2) LAYERS ROOFING INSULATION OVER SLOPED STRUCTURE
2 EXISTING ROOF - NO WORK EXCEPT AS NOTED
3 METAL COPING. SEE SECTIONS AND ELEVATIONS FOR COLOR.
4 2" EXPANSION JOINT
5 NO ROOF
6 OVERHANG WITH FASCIA AND SOFFIT TO MATCH EXISTING
7 ROOF DRAIN AND OVERFLOW ROOF DRAIN - REFER TO PLUMBING.
8 TAPERED ROOF INSULATION CRICKET AT 1/2" PER 12".
9 PREFABRICATED ROOF ACCESS LADDER.
10 36" X 36" ROOF HATCH WITH LADDER ASSIST POST AND OSHA RAILING SYSTEM
11 SCREEN WALL CONSTRUCTION AROUND MECHANICAL UNIT - SEE STRUCTURAL DRAWINGS AND 2/A203-COORDINATE WITH STRUCTURAL
12 EXISTING SKYLITE TO BE REMOVED - PROVIDE WATERTIGHT INSULATED CAP
13 NEW MECHANICAL UNIT - SEE MECHANICAL DRAWINGS
14 ADDITIONAL TAPERED ROOF INSULATION OVER APPROX. 1/8" PER FOOT SLOPED STRUCTURE AS REQUIRED TO PROVIDE 1/4" PER FOOT SLOPED ROOF.
15 REMOVE EXISTING ROOF HATCH. PROVIDE WATERTIGHT INSULATED CAP
16 FABRICATED TRANSITION CURB FROM OLD TO NEW ROOF TO ALLOW FOR VARYING ROOF SLOPES. SEE WALL SECTIONS.
17 METAL ROOF COPING - PROFILE TO MATCH EXISTING. RETURN PROFILE AROUND ENDS OF WING WALLS AND MIN. 4'-0" AT ROOF SIDE OF PARAPET.
18 CANOPY. SEE WALL SECTIONS.
19 BILCO DSH 6096 SMOKE VENTS OVER STAGE - COORDINATE WITH STRUCTURAL.
20 ROOF WALKWAY PADS - AS INDICATED AND AS OTHERWISE REQUIRED TO ACCESS NEW MECHANICAL EQUIPMENT.
21 EXISTING LADDER TO REMAIN.

ROOF PLAN LEGEND

- EXISTING ROOF TO REMAIN
- NEW ROOF - TPO SYSTEM OVER 1/4" PER FOOT SLOPED STRUCTURE
- TAPERED INSULATION CRICKETS TO PROVIDE SLOPE TO DRAINS
- NEW ROOF - TPO SYSTEM OVER APPROX. 1/8" PER FOOT SLOPED STRUCTURE OVER CLASSROOMS AND FLAT STRUCTURE OVER CENTER CORRIDOR BELOW (SEE STRUCTURAL DRAWINGS). PROVIDE ADDITIONAL TAPERED INSULATION (WILL REQUIRE VARYING THICKNESSES OF TAPERED INSULATION) TO PROVIDE 1/4" FOOT PER SLOPE AS INDICATED. (2)



KEYPLAN



NOTE:
ROOF SCREEN SHALL BE DESIGNED IN ITS ENTIRETY BY THE MANUFACTURER, INCLUDING ALL CONNECTIONS. REFER TO SPECIFICATION SECTION 10 82 00.

2 / A203 ROOF SCREEN DETAIL
SCALE: 3/4" = 1'-0"

1 / A203 ROOF PLAN
SCALE: 1/16" = 1'-0"

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RENOVATION & ADDITION
1800 N. FRANKLIN RD. INDIANAPOLIS, IN 46219

SCOPE DRAWINGS:
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REVISIONS:

2	ADDENDUM #2	03-24-21

ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	LTR	CAM

DRAWING TITLE:
ROOF PLAN

JOHN E. RIGSBEE REGISTERED No. 920019 STATE OF INDIANA ARCHITECT

DRAWING NUMBER
A203

PROJECT NUMBER
2020061

1 A211A UNIT "A" REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

REFLECTED CEILING LEGEND

- FLUORESCENT LIGHT FIXTURES, RECESSED OR SURFACED MOUNTED, SEE ELECTRICAL DRAWINGS
- DOWNLIGHT/HIGH BAY LIGHT FIXTURE; SEE ELECTRICAL DRAWINGS
- CEILING MOUNTED PROJECTOR, SEE TECHNOLOGY DRAWINGS
- RETURN/EXHAUST GRILL; SEE MECHANICAL DRAWINGS
- SUPPLY AIR GRILL; SEE MECHANICAL DRAWINGS
- LINEAR SLOT SUPPLY AIR GRILL; SEE MECHANICAL DRAWINGS
- CL1 — SUSPENDED ACOUSTICAL LAY-IN CEILING
MFG: ARMSTRONG MODEL #1810
STYLE: SCHOOL ZONE HIGH CAC, HIGH NRC
DESCRIPTION: SQUARE EDGE
COLOR: WHITE SIZE: 24" x 24" x 3/4"
LOCATION: CLASSROOMS AND CORRIDORS
- CL3 — SUSPENDED ACOUSTICAL LAY-IN CEILING
MFG: USG
STYLE: MARS HEALTHCARE ACOUSTICAL PANELS #86169
DESCRIPTION: SQUARE EDGE
COLOR: WHITE SIZE: 2' x 2' x 3/4"
LOCATION: RESTROOMS AND KITCHENS
- CL4 — SUSPENDED GYPSUM WALLBOARD CEILING SYSTEM
USE 5/8" WALLBOARD
PAINT: P8 CEILING BRIGHT WHITE UNLESS NOTED OTHERWISE.
- CL5 — GYPSUM WALLBOARD BULKHEAD
PAINT: SEE A800 SERIES FINISH PLANS.
- CL6 — EXPOSED STRUCTURE - PAINTED SEE FINISH PLANS
- CL7 — DAFS SOFFIT. PROVIDE LAYOUT OF CONTROL JOISTS FOR APPROVAL
- +0' - 0" — CEILING ELEVATION MARK ABOVE FINISHED FLOOR (AT THAT LOCATION IF MULTIPLE FLOOR LEVELS ARE PRESENT)
- ETR — EXISTING CEILING OR EXPOSED STRUCTURE TO REMAIN - SEE NOTE #1 BELOW WHERE APPLICABLE

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 ELECTRICAL 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.
E. METAL STUDS WALLS SHALL BE ATTACHED TO THE STRUCTURE ABOVE WITH SLIP CONNECTORS. STUD WALLS NOT EXTENDING TO THE 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 REQUIRED AT LIGHT FIXTURES, PROJECTION SCREENS, ETC.
G. ALL EXISTING GYPSUM OR PLASTER CEILINGS AND BULKHEADS TO REMAIN ARE TO BE PAINTED CEILING BRIGHT WHITE UNLESS NOTED OTHERWISE (SEE A800 SERIES DRAWINGS).
H. SEE MECHANICAL, PLUMBING AND ELECTRICAL DOCUMENTS FOR ADDITIONAL CEILING WORK REQUIRED BY NEW MEP WORK.
J. PROVIDE HOLD-DOWN CLIPS AT VESTIBULES
K. TYPICALLY, WHERE NEW CEILINGS ARE INSTALLED IN EXISTING ROOMS, NEW CEILINGS SHOULD BE AT SAME HEIGHT AS EXISTING CEILINGS.

REFLECTED CEILING PLAN NOTES

1 PATCH AND REPAIR EXISTING GYPSUM BOARD OR PLASTER CEILING OR BULKHEAD AS REQUIRED FOR INSTALLATION OF SPRINKLERS OR OTHER MEP WORK
2 EXTEND EXISTING GYPSUM BOARD BULKHEAD AS INDICATED - MATCH EXISTING APPEARANCE, HEIGHT, ETC.
3 EXISTING GYPSUM BOARD BULKHEAD (ABOVE EXISTING CABINETS TO BE REMOVED) TO REMAIN
4 PATCH EXISTING GYPSUM BOARD BULKHEAD AT REMOVED PIER
5 NO CEILING THIS ROOM - EXTEND EXISTING SURROUNDING WALLS TO DECK AND SEAL
6 EXISTING BULKHEAD TO REMAIN - PATCH AND REPAIR AS REQUIRED
7 EXISTING EXPOSED STRUCTURE TO REMAIN
8 RECESSED MOTORIZED PROJECTION SCREEN AT PROSCENIUM OPENING - SEE FLOOR PLANS AND EQUIPMENT SCHEDULE
9 EXISTING SKYLIGHTS TO REMAIN
10 NEW BULKHEAD OVER CABINETS AS INDICATED. REFER TO DETAIL 2/A211B.
11 CABINETS TO CEILING WITH MATCHING FASCIA PANEL
12 MAIN STAGE/PROSCENIUM CURTAIN WITH DEAD HUNG VALANCE
13 CYCLORAMA AND BORDER CURTAINS
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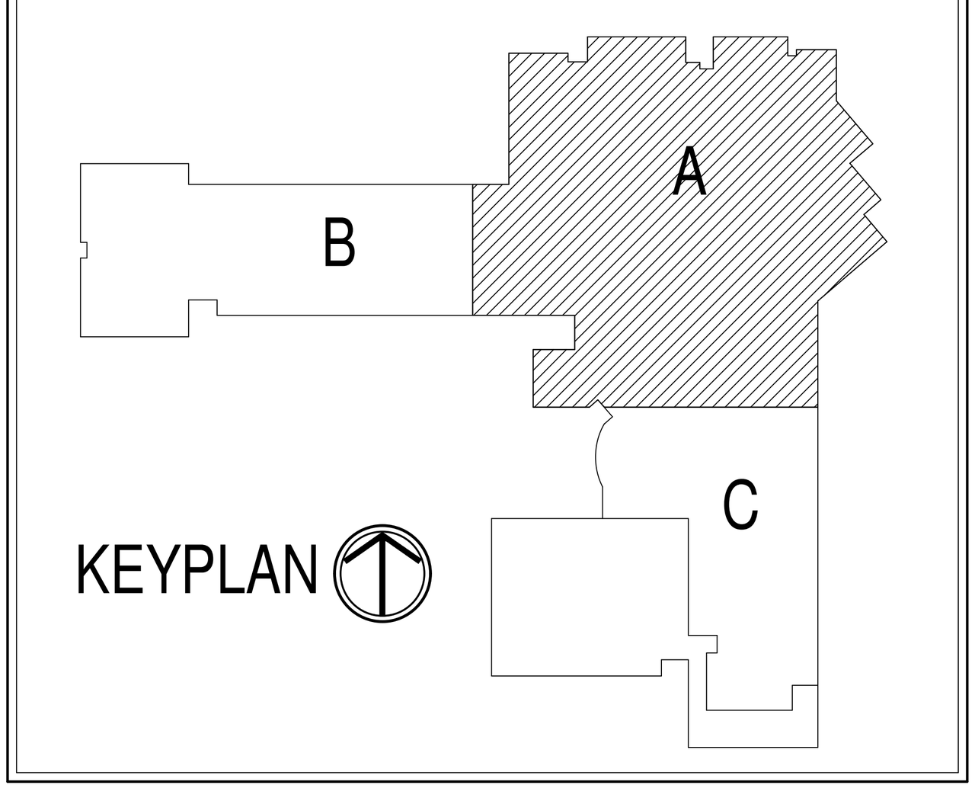
16 2" EXPANSION JOINT
17 NEW BULKHEAD OVER EXISTING BULKHEAD TO REMAIN - PATCH AND REPAIR AS REQUIRED. REFER TO DETAIL 5/A211B.
18 PROVIDE NEW BULKHEAD AT THIS LOCATION AS REQUIRED TO MATCH ADJACENT REVISED BULKHEAD.
19 NEW BULKHEAD. REFER TO DETAIL 2/A211B.
20 NEW BULKHEAD. REFER TO DETAIL 3/A211B.
21 NEW BULKHEAD. REFER TO DETAIL 4/A211B.
22 LADDER AND ROOF HATCH. VERIFY LOCATION
23 COORDINATE SUPPORT BEAM HEIGHT WITH REQUIREMENTS OF OPERABLE PARTITION TRACK.
24 PROVIDE 1HR RATED SHAFTWALL "LID" AT P.E. OFFICE C106 @ 12'-0" A.F.F.
25 HATCH TYPE AUTOMATIC HEAT AND SMOKE VENT - 60" X 96" - SEE 07 72 00
26 EXISTING CEILING-MOUNTED PROJECTOR SCREEN TO BE REINSTALLED AT NEW CEILING. COORDINATE WITH REMOVAL AT CLASSROOMS PER DEMOLITION PLANS.
27 VERIFY EXACT LOCATION AND LENGTH OF BULKHEAD WITH MECHANICAL DUCTWORK.



KEYPLAN

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REVISIONS:

2	ADDENDUM #2	03-24-21

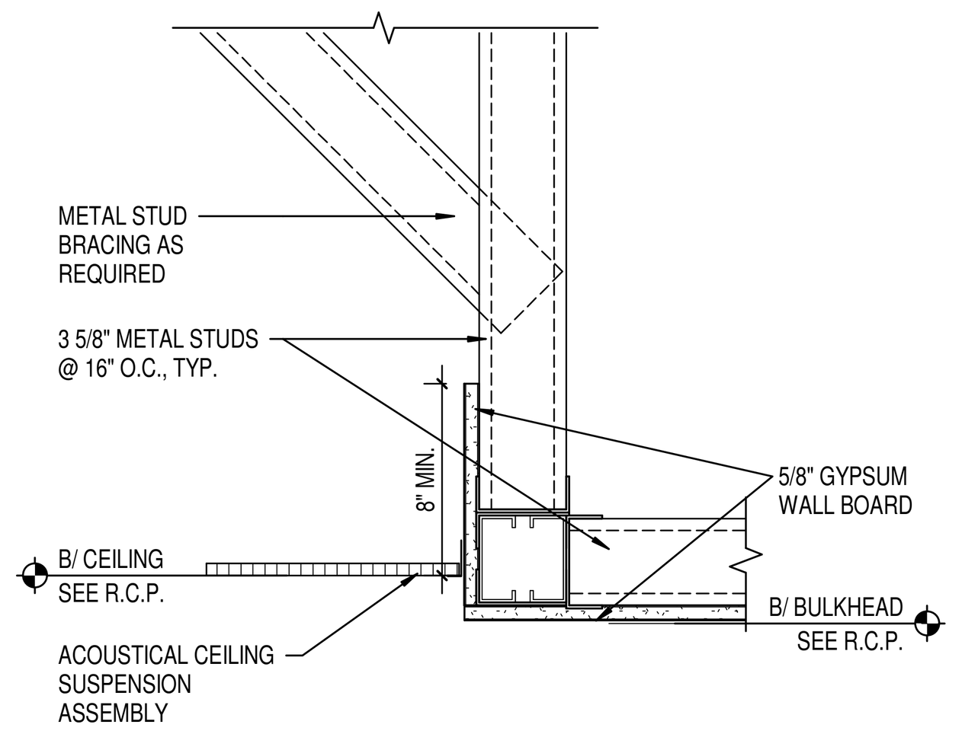
ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	LTR	CAM

DRAWING TITLE:
FIRST FLOOR REFLECTED CEILING PLAN - UNIT A

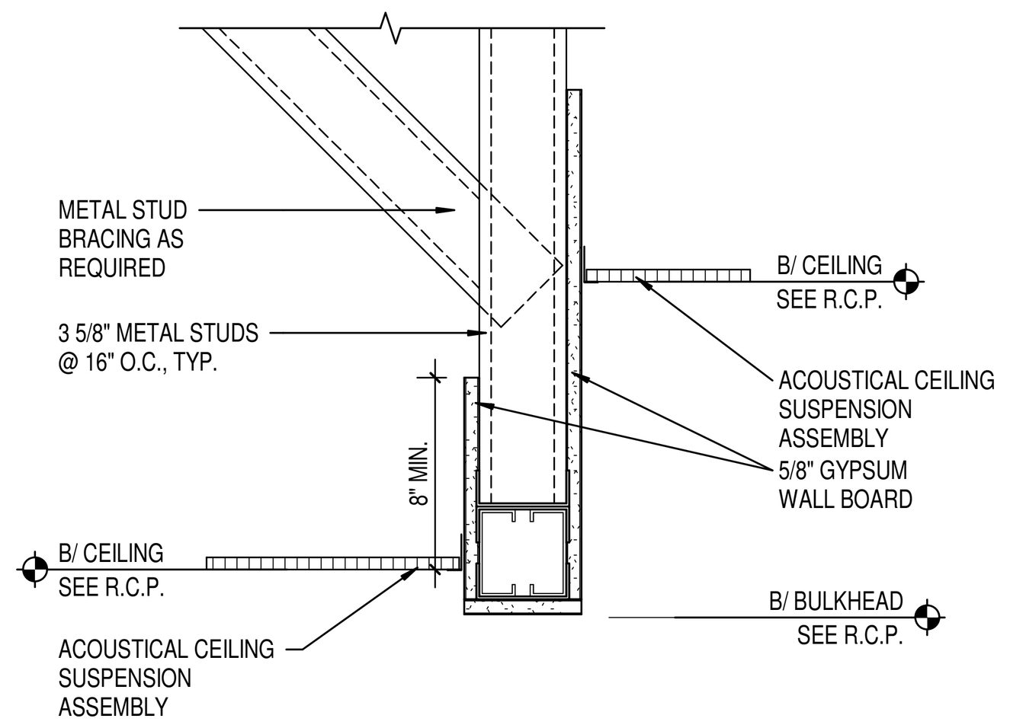
CERTIFIED BY: JOHN E. RIGSBEE REGISTERED No. 920019 STATE OF INDIANA ARCHITECT

DRAWING NUMBER
A211A

PROJECT NUMBER
2020061



2 / A211B TYP. BULKHEAD DETAIL
SCALE: 1 1/2" = 1'-0"



3 / A211B TYP. BULKHEAD DETAIL
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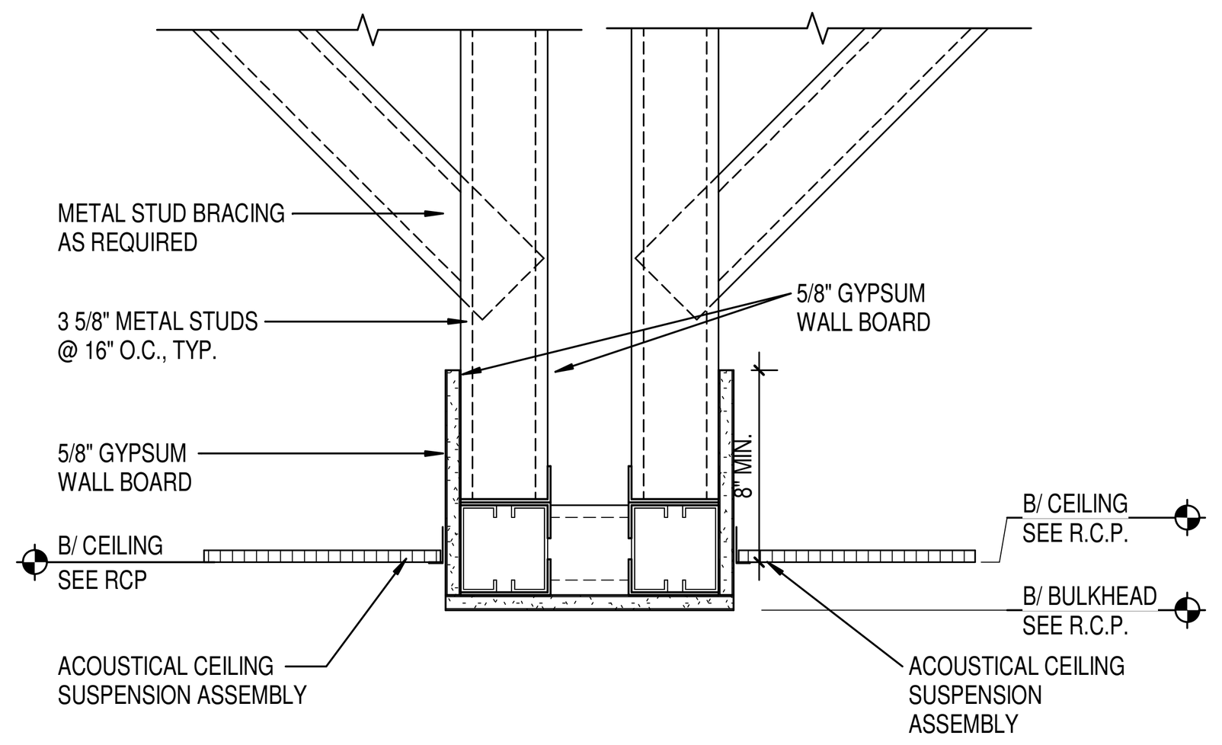
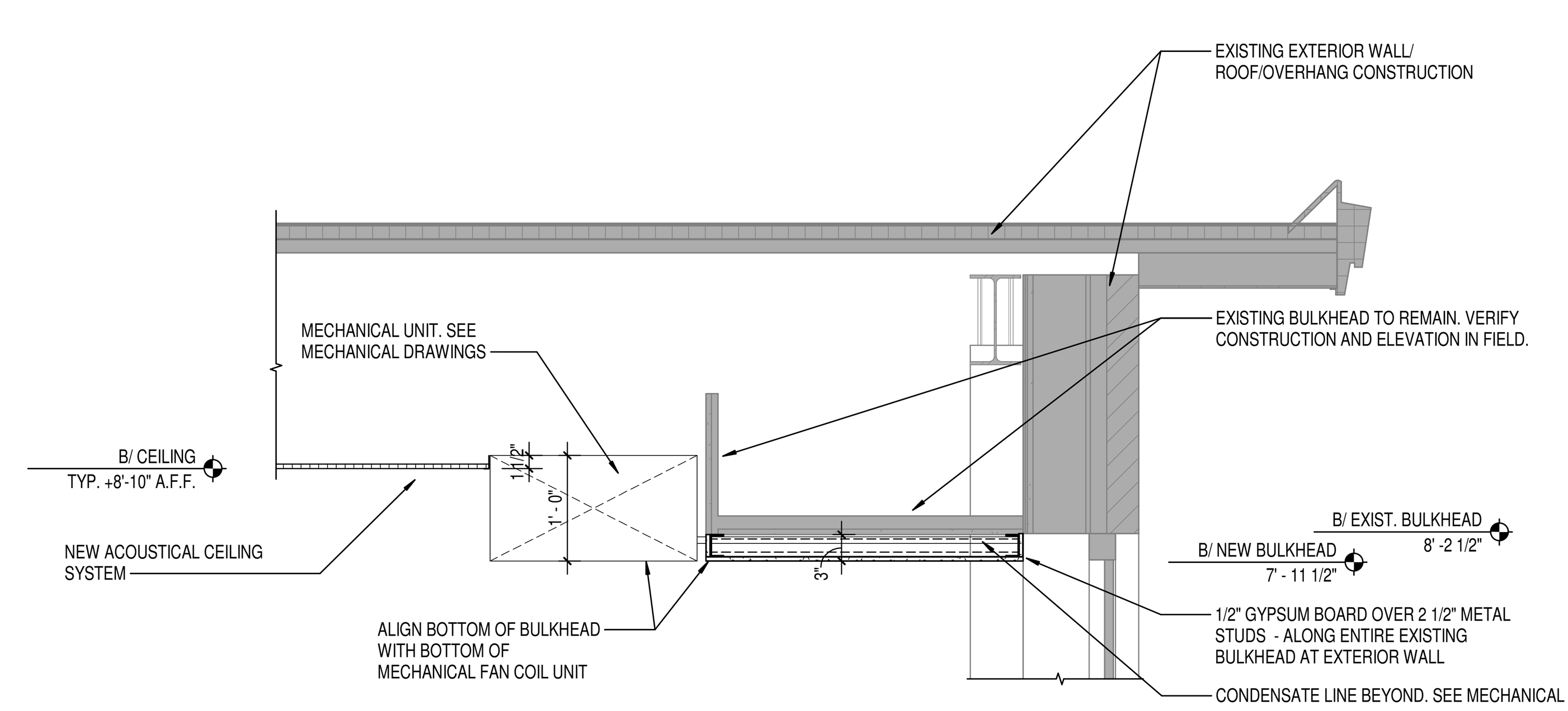


4 / A211B TYP. BULKHEAD DETAIL
SCALE: 1 1/2" = 1'-0"



5 / A211B REVISED BULKHEAD AT CLASSROOMS
SCALE: 3/4" = 1'-0"

1 / A211B UNIT "B" REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

REFLECTED CEILING LEGEND

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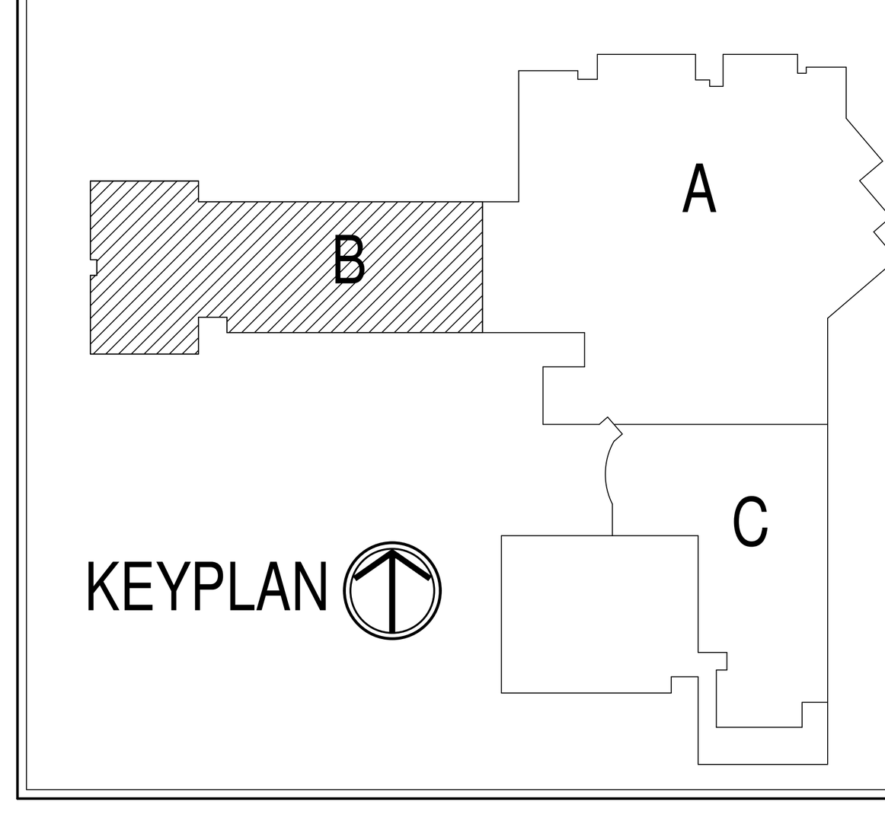

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ISSUE DATE	DRAWN BY	CHECKED BY
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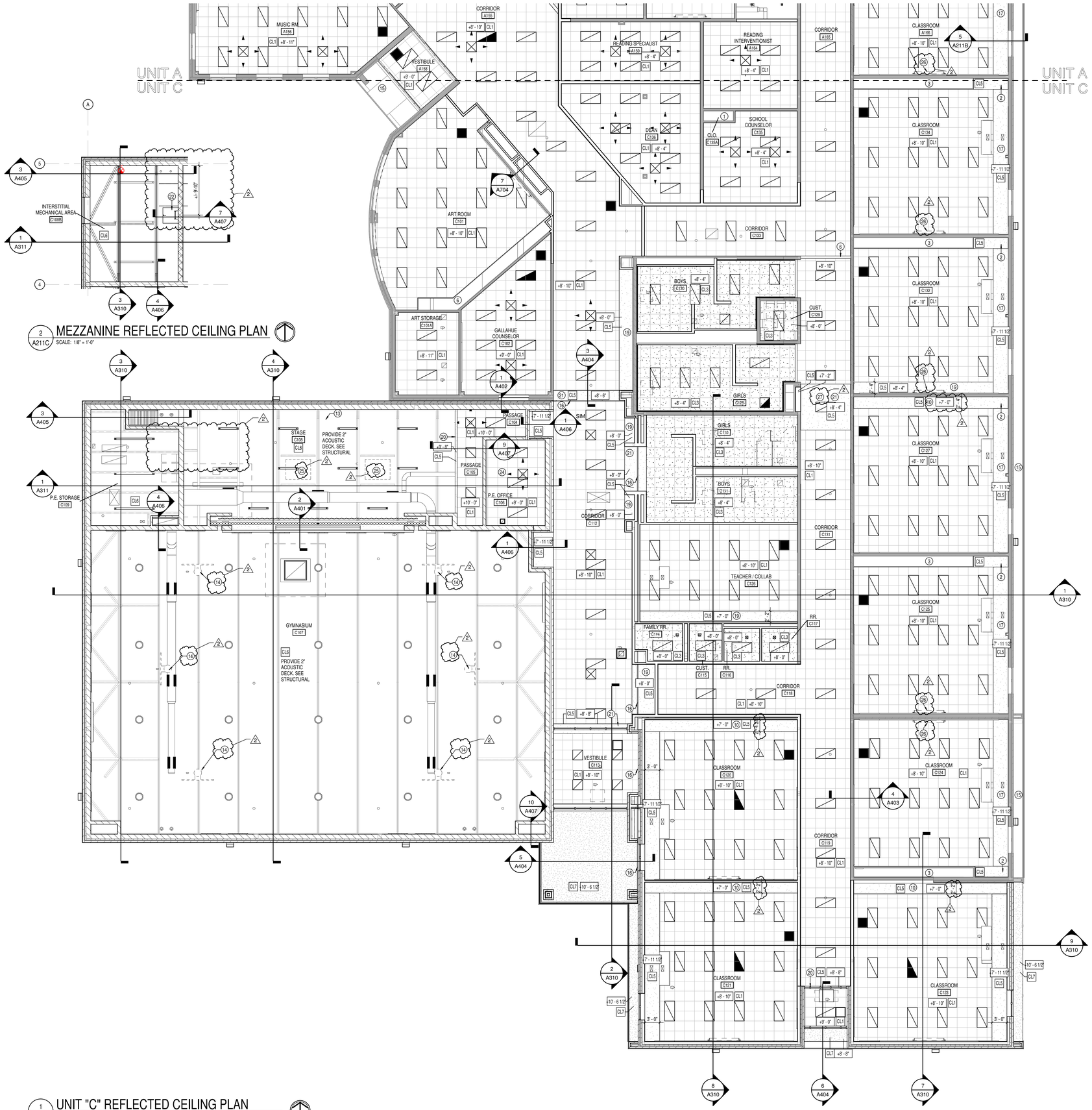
DRAWING TITLE:
FIRST FLOOR REFLECTED CEILING PLAN - UNIT B

CERTIFIED BY:
JOHN E. RIGSBEE REGISTERED No. 920019 STATE OF INDIANA ARCHITECT

DRAWING NUMBER
A211B

PROJECT NUMBER
2020061



MEZZANINE REFLECTED CEILING PLAN

2 / A211C — SCALE: 1/8" = 1'-0"

UNIT "C" REFLECTED CEILING PLAN

1 / A211C — SCALE: 1/8" = 1'-0"

REFLECTED CEILING LEGEND

- FLUORESCENT LIGHT FIXTURES, RECESSED OR SURFACED MOUNTED; SEE ELECTRICAL DRAWINGS
- DOWNLIGHT/HIGH BAY LIGHT FIXTURE; SEE ELECTRICAL DRAWINGS
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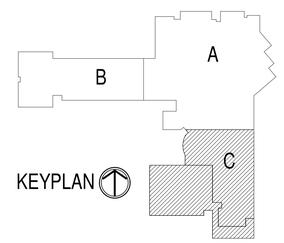
  STYLE: SCHOOL ZONE HIGH CAC, HIGH NRC
  DESCRIPTION: SQUARE EDGE
  COLOR: WHITE SIZE: 24" x 24" x 3/4"
  LOCATION: CLASSROOMS AND CORRIDORS
- CL3 — SUSPENDED ACOUSTICAL LAY-IN CEILING
  MFG: USG
  STYLE: MARS HEALTHCARE ACOUSTICAL PANELS #86189
  DESCRIPTION: SQUARE EDGE
  COLOR: WHITE SIZE: 2' x 2' x 3/4"
  LOCATION: RESTROOMS AND KITCHENS
- CL4 — SUSPENDED GYPSUM WALLBOARD CEILING SYSTEM
  USE 5/8" WALLBOARD
  PAINT: P8 CEILING BRIGHT WHITE UNLESS NOTED OTHERWISE.
- CL5 — GYPSUM WALLBOARD BULKHEAD
  PAINT: SEE A800 SERIES FINISH PLANS.
- CL6 — EXPOSED STRUCTURE - PAINTED SEE FINISH PLANS
- CL7 — DAFS SOFFIT. PROVIDE LAYOUT OF CONTROL JOISTS FOR APPROVAL
- +0' - 0" — CEILING ELEVATION MARK ABOVE FINISHED FLOOR (AT THAT LOCATION IF MULTIPLE FLOOR LEVELS ARE PRESENT)
- ETR — EXISTING CEILING OR EXPOSED STRUCTURE TO REMAIN - SEE NOTE #1 BELOW WHERE APPLICABLE

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 ELECTRICAL 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.
E. METAL STUDS WALLS SHALL BE ATTACHED TO THE STRUCTURE ABOVE WITH SLIP CONNECTORS. STUD WALLS NOT EXTENDING TO THE 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 REQUIRED AT LIGHT FIXTURES, PROJECTION SCREENS, ETC.
G. ALL EXISTING GYPSUM OR PLASTER CEILINGS AND BULKHEADS TO REMAIN ARE TO BE PAINTED CEILING BRIGHT WHITE UNLESS NOTED OTHERWISE (SEE A800 SERIES DRAWINGS).
H. SEE MECHANICAL, PLUMBING AND ELECTRICAL DOCUMENTS FOR ADDITIONAL CEILING WORK REQUIRED BY NEW MEP WORK.
J. PROVIDE HOLD-DOWN CLIPS AT VESTIBLES
K. TYPICALLY, WHERE NEW CEILINGS ARE INSTALLED IN EXISTING ROOMS, NEW CEILINGS SHOULD BE AT SAME HEIGHT AS EXISTING CEILINGS.

REFLECTED CEILING PLAN NOTES

1 PATCH AND REPAIR EXISTING GYPSUM BOARD OR PLASTER CEILING OR BULKHEAD AS REQUIRED FOR INSTALLATION OF SPRINKLERS OR OTHER MEP WORK
2 EXTEND EXISTING GYPSUM BOARD BULKHEAD AS INDICATED - MATCH EXISTING APPEARANCE, HEIGHT, ETC.
3 EXISTING GYPSUM BOARD BULKHEAD (ABOVE EXISTING CABINETS TO BE REMOVED) TO REMAIN
4 PATCH EXISTING GYPSUM BOARD BULKHEAD AT REMOVED PIER
5 NO CEILING THIS ROOM - EXTEND EXISTING SURROUNDING WALLS TO DECK AND SEAL
6 EXISTING BULKHEAD TO REMAIN - PATCH AND REPAIR AS REQUIRED
7 EXISTING EXPOSED STRUCTURE TO REMAIN
8 RECESSED MOTORIZED PROJECTION SCREEN AT PROSCENIUM OPENING - SEE FLOOR PLANS AND EQUIPMENT SCHEDULE
9 EXISTING SKYLIGHTS TO REMAIN
10 NEW BULKHEAD OVER CABINETS AS INDICATED. REFER TO DETAIL 2/A211B.
11 CABINETS TO CEILING WITH MATCHING FASCIA PANEL
12 MAIN STAGE/PROSCENIUM CURTAIN WITH DEAD HUNG VALANCE
13 CYCLORAMA AND BORDER CURTAINS
14 SUSPENDED BASKETBALL GOALS
15 EXISTING SOFFIT TO REMAIN
16 2" EXPANSION JOINT
17 NEW BULKHEAD OVER EXISTING BULKHEAD TO REMAIN - PATCH AND REPAIR AS REQUIRED. REFER TO DETAIL 5/A211B.
18 PROVIDE NEW BULKHEAD AT THIS LOCATION AS REQUIRED TO MATCH ADJACENT REVISED BULKHEAD.
19 NEW BULKHEAD. REFER TO DETAIL 2/A211B.
20 NEW BULKHEAD. REFER TO DETAIL 3/A211B.
21 NEW BULKHEAD. REFER TO DETAIL 4/A211B.
22 LADDER AND ROOF HATCH. VERIFY LOCATION
23 COORDINATE SUPPORT BEAM HEIGHT WITH REQUIREMENTS OF OPERABLE PARTITION TRACK.
24 PROVIDE 1HR RATED SHAFTWALL 1-HD" AT P.E. OFFICE C106 @ 12'-0" A.F.F.
25 HATCH TYPE AUTOMATIC HEAT AND SMOKE VENT - 60" X 96" - SEE 07 72 00
26 EXISTING CEILING-MOUNTED PROJECTOR SCREEN TO BE REINSTALLED AT NEW CEILING; COORDINATE WITH REMOVAL AT CLASSROOMS PER DEMOLITION PLANS.
27 VERIFY EXACT LOCATION AND LENGTH OF BULKHEAD WITH MECHANICAL DUCTWORK.



KEYPLAN

CSO
8831 Keystone Crossing, Indianapolis, IN 46240
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PROJECT:
MSD OF WARREN TOWNSHIP
PLEASANT RUN ELEMENTARY SCHOOL
RENOVATION & ADDITION
1800 N. FRANKLIN RD. INDIANAPOLIS, IN 46219

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of demolition and new work. They also indicate the building, the major architectural elements, and the type of structural, mechanical and electrical systems.
The drawings and specifications are intended to describe all work required for full performance and completion of the requirements of the Contract.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:
2 ADDENDUM #2 03-24-21

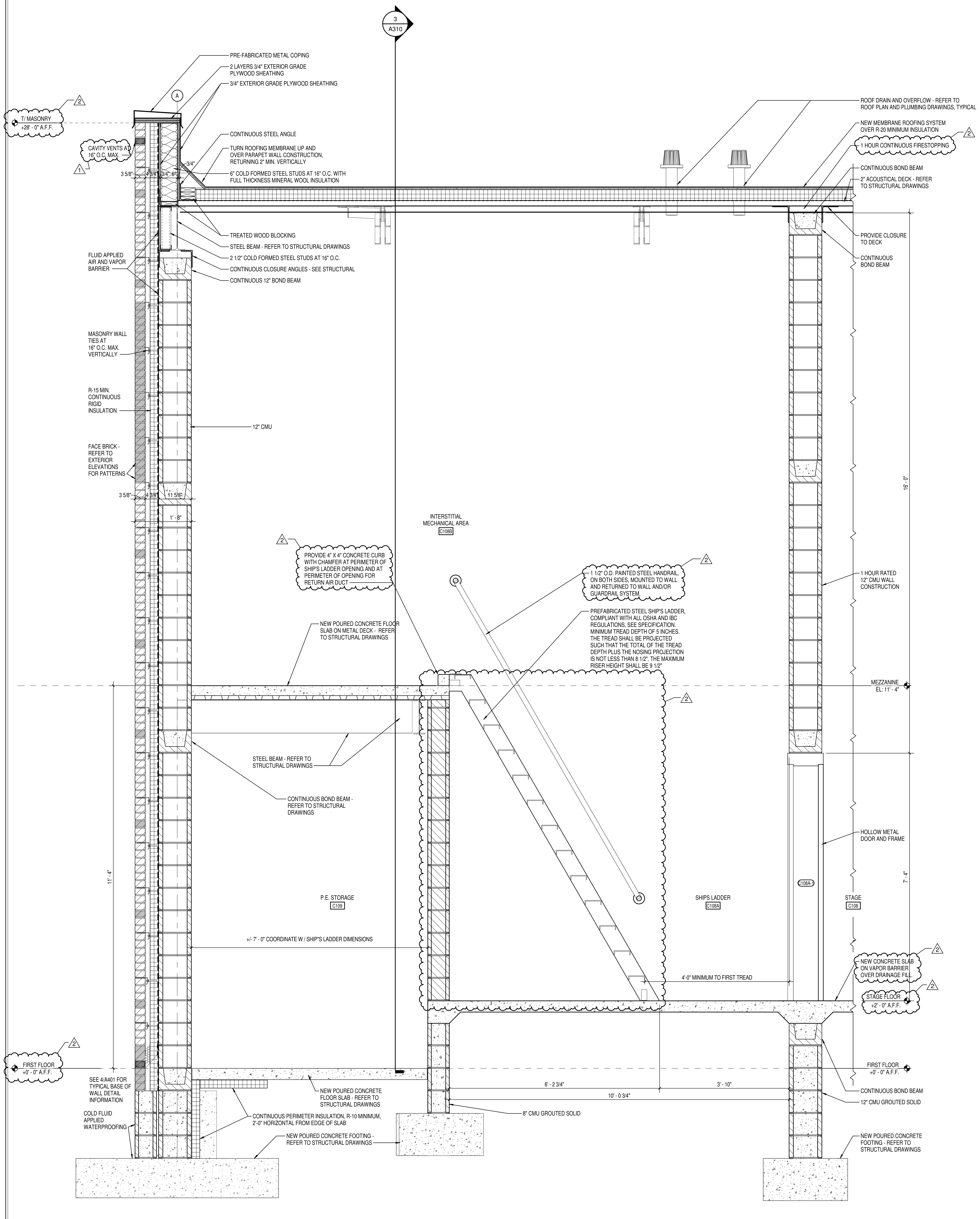
ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	LTR	CAM

DRAWING TITLE:
FIRST FLOOR REFLECTED CEILING PLAN - UNIT C

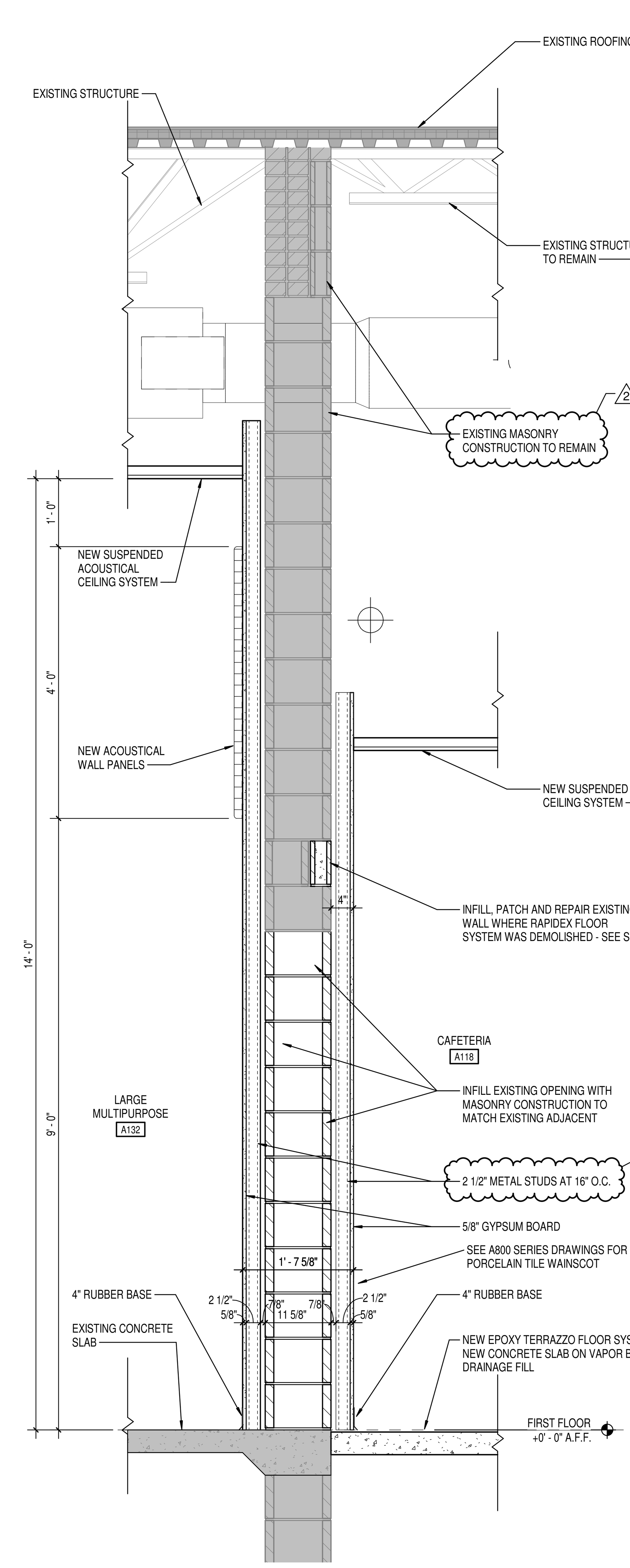
JOHN E. RIGGSBEE REGISTERED No. 920019 STATE OF INDIANA ARCHITECT

DRAWING NUMBER
A211C

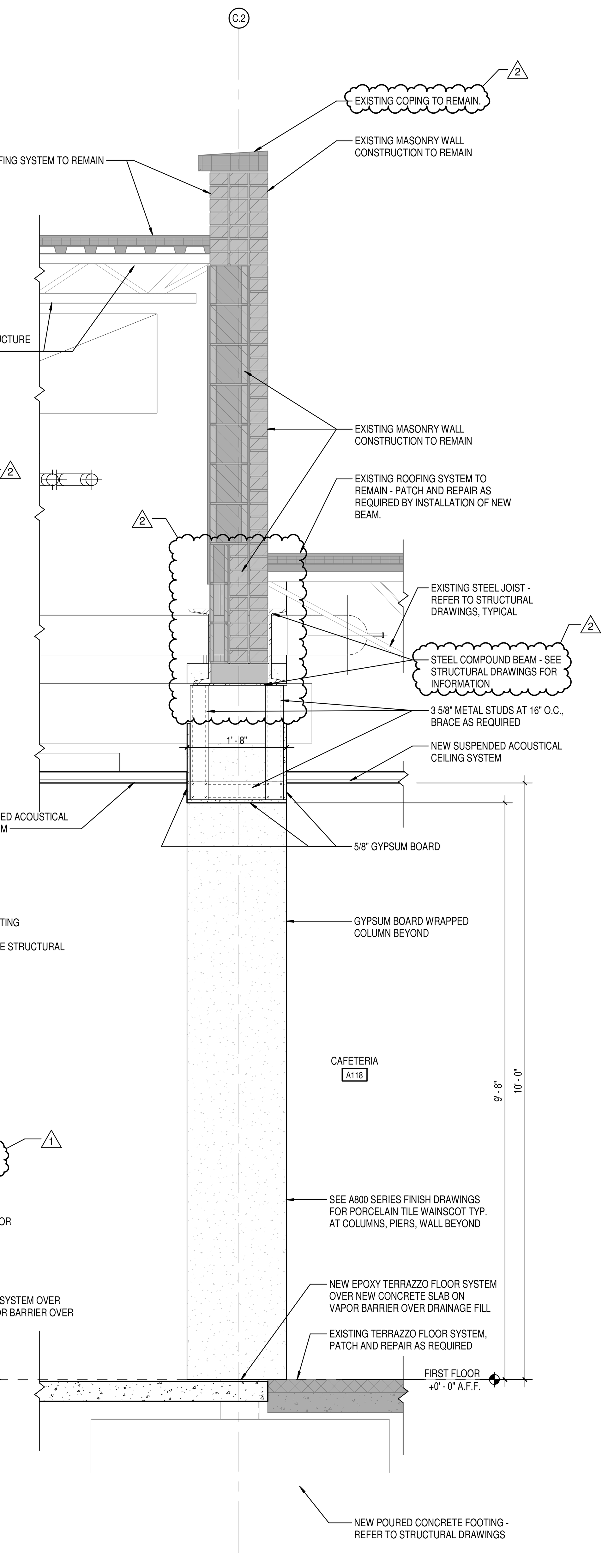
PROJECT NUMBER
2020061



3 A405 **WALL SECTION**
SCALE: 3/4" = 1'-0"



2 A405 **WALL SECTION**
SCALE: 3/4" = 1'-0"



1 A405 **WALL SECTION**
SCALE: 3/4" = 1'-0"

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PROJECT:

MSD OF WARREN TOWNSHIP
PLEASANT RUN ELEMENTARY SCHOOL
RENOVATION & ADDITION
1800 N. FRANKLIN RD. INDIANAPOLIS, IN 46219

SCOPE DRAWINGS:

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

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

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

REVISIONS:

1	ADDENDUM #1	03-15-21
2	ADDENDUM #2	03-24-21

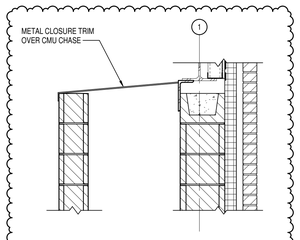
ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	LTR	CAM

DRAWING TITLE:
WALL SECTIONS

JOHN E. RIGSBEE REGISTERED No. 920019 STATE OF INDIANA ARCHITECT

DRAWING NUMBER
A405

PROJECT NUMBER
2020061



10 / A407 WALL SECTION
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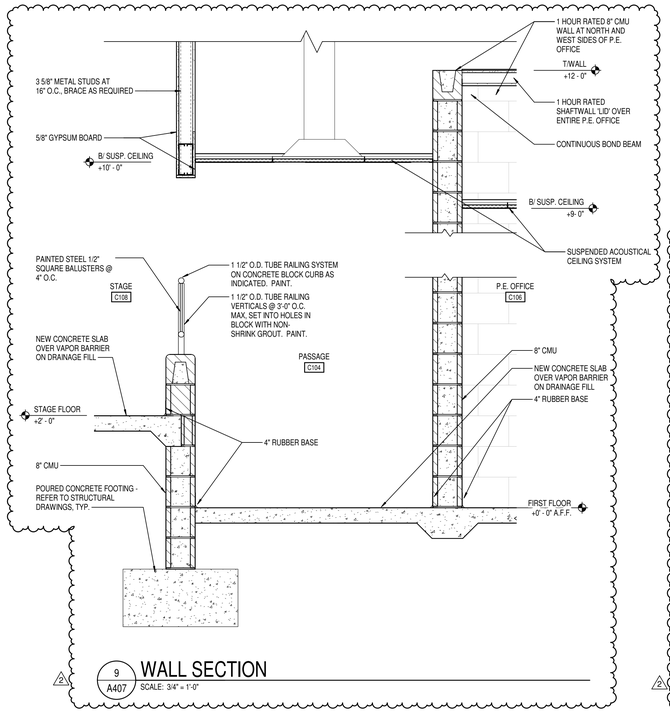

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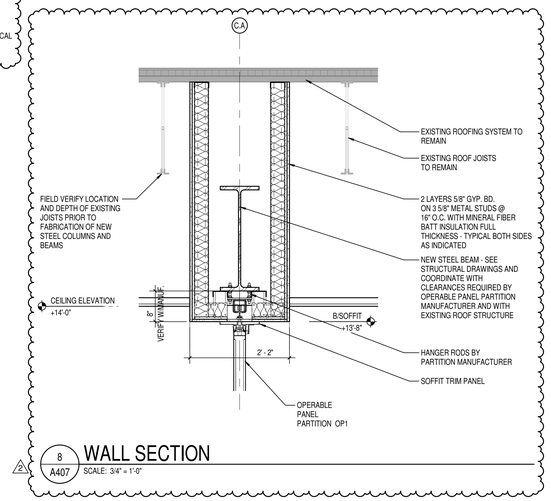

8 / A407 WALL SECTION
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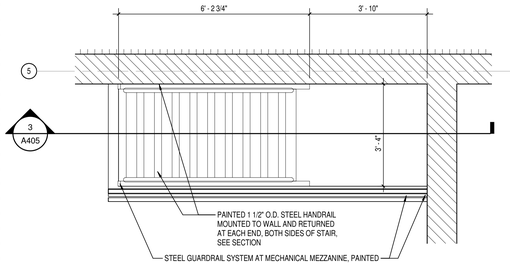
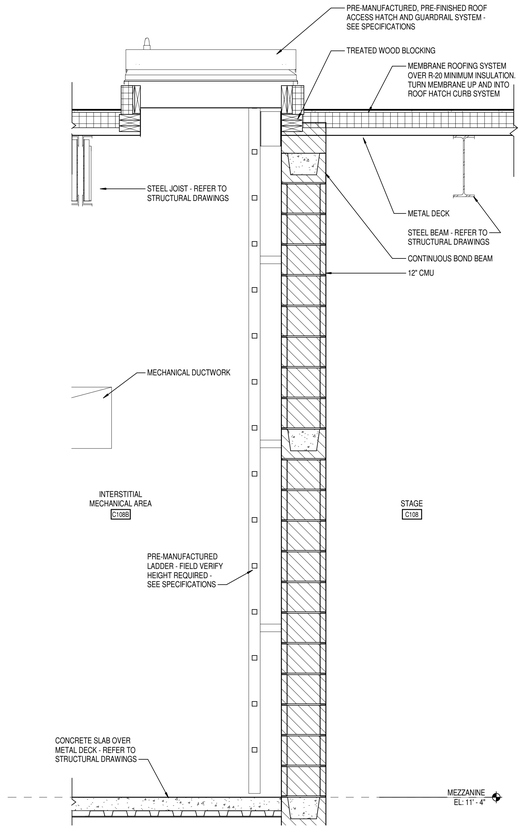
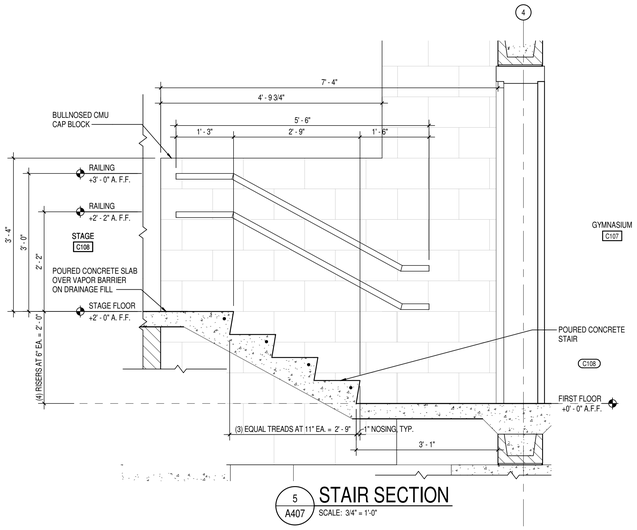


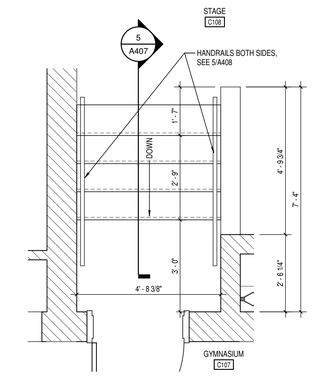
6 / A407 ENLARGED SHIPS LADDER PLAN
SCALE: 1/2" = 1'-0"



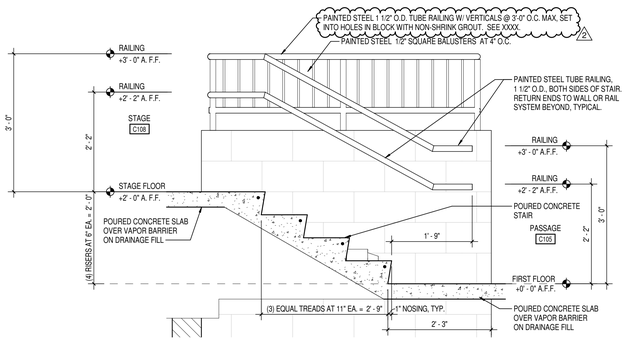
7 / A407 ROOF ACCESS LADDER
SCALE: 3/4" = 1'-0"



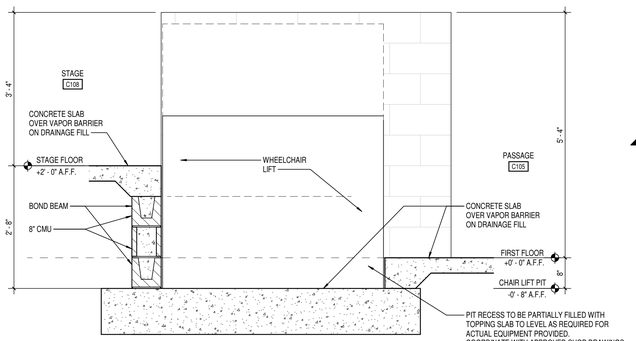
5 / A407 STAIR SECTION
SCALE: 3/4" = 1'-0"



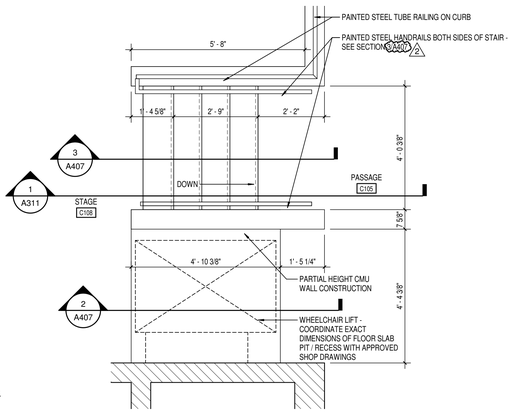
4 / A407 ENLARGED STAIR PLAN
SCALE: 1/2" = 1'-0"



3 / A407 STAIR SECTION
SCALE: 3/4" = 1'-0"



2 / A407 LIFT SECTION
SCALE: 3/4" = 1'-0"



1 / A407 ENLARGED STAIR AND WHEELCHAIR LIFT PLAN
SCALE: 1/2" = 1'-0"

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MSD OF WARREN TOWNSHIP
PLEASANT RUN ELEMENTARY SCHOOL
RENOVATION & ADDITION
1800 N. FRANKLIN RD. INDIANAPOLIS, IN 46219

SCOPE DRAWINGS:
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The Trade Contractors shall furnish all scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

2	ADDENDUM #2	03-24-21

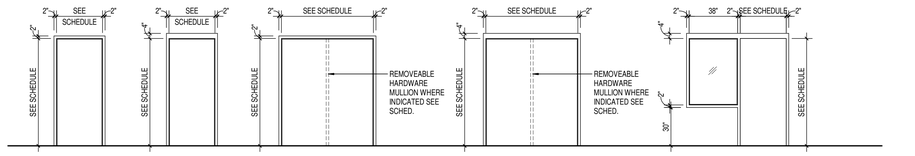
ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	LTR	CAM

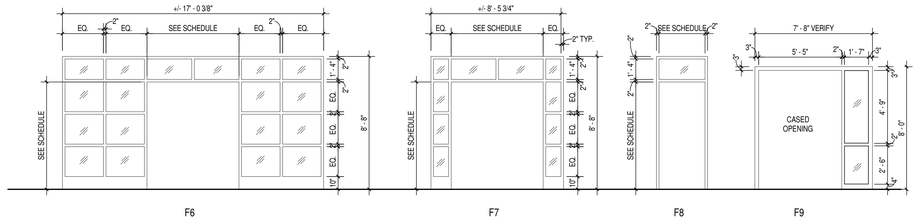
DRAWING TITLE:
VERTICAL CIRCULATION SECTIONS AND DETAILS

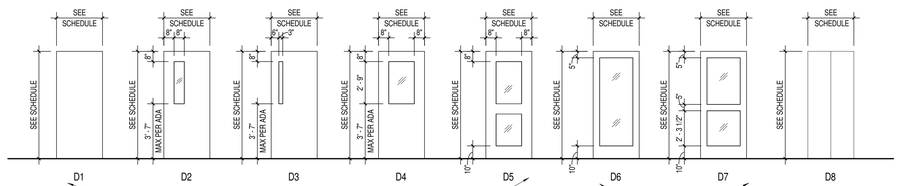
JOHN E. RIGSBEE REGISTERED No. 920019 STATE OF INDIANA ARCHITECT

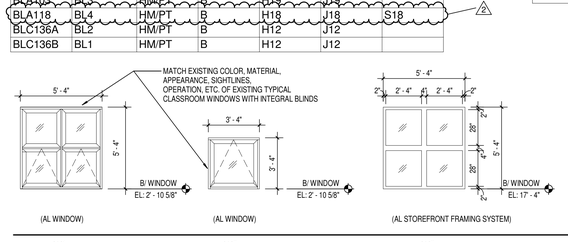
DRAWING NUMBER
A407

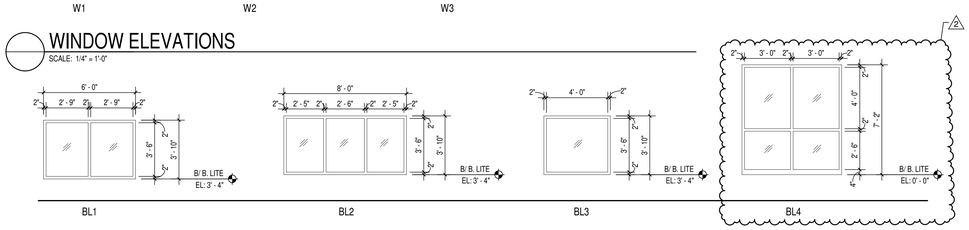
PROJECT NUMBER
2020061











DOOR AND FRAME SCHEDULE

DOOR								FRAME							UL RATING	STC RATING	REMARKS
	SIZE											DETAIL					
MARK	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	ELEVATION	GLASS	MATERIAL	FINISH	FRAME ELEVATION	GLASS	HEAD	JAMB	SILL			
A100-1	PAIR 3' - 0"	7' - 7 1/8"	2 1/4"	ETR	ETR	ETR	D	ETR	ETR	ETR	D	ETR	ETR	ETR	-	-	1
A100-2	PAIR 3' - 0"	7' - 7 1/8"	2 1/4"	ETR	ETR	ETR	D	ETR	ETR	ETR	D	ETR	ETR	ETR	-	-	1
A100-3	PAIR 3' - 0"	7' - 7 1/8"	2 1/4"	ETR	ETR	ETR	E	ETR	ETR	ETR	E	ETR	ETR	ETR	-	-	-
A100-4	PAIR 3' - 0"	7' - 7 1/8"	2 1/4"	ETR	ETR	ETR	E	ETR	ETR	ETR	E	ETR	ETR	ETR	-	-	-
A100-5	SGL 3' - 0"	7' - 0"	1 3/4"	ETR	ETR	ETR	E	ETR	ETR	ETR	E	ETR	ETR	ETR	-	-	-
A101	PAIR 3' - 0"	7' - 0"	2 1/4"	ETR	ETR	ETR	C	ETR	ETR	ETR	C	ETR	ETR	ETR	-	-	-
A103	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	HM	PT	F1	-	H2	J2	-	-	-	-
A103A	BIFOLD PAIR	7' - 0"	1 3/4"	WD	ST	D8	-	HM	PT	ETR	-	ETR	ETR	ETR			2
A104	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	C	HM	PT	F1	-	H1	J1	-	-	-	-
A105-1	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A105-2	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	HM	PT	F1	-	H1	J1	-	-	-	-
A105A	SGL 2' - 8"	7' - 0"	1 3/4"	WD	ST	D1	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A105B	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F1	-	H1	J1	-	-	-	-
A105C	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F1	-	H1	J1	-	-	-	-
A105D	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F1	-	H1	J1	-	-	-	-
A106-1	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A106-2	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	HM	PT	F1	-	H13	J13	-	-	-	-
A106-3	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A106-4	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A107	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A107A	BIFOLD PAIR	7' - 0"	1 3/4"	WD	ST	D8	-	HM	PT	ETR	-	ETR	ETR	ETR			2
A109	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A111	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A112	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A113	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A114-1	BIFOLD PAIR	7' - 0"	1 3/4"	WD	ST	D8	-	ETR	PT	ETR	-	ETR	ETR	ETR			2
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A115-2	PAIR 3' - 0"	7' - 0"	1 3/4"	ETR	PT	ETR	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	-
A116-1	SGL 3' - 0"	7' - 0"	1 3/4"	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	-	-	-
A116-2	SGL 3' - 0"	7' - 0"	1 3/4"	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	-	-	-
A118-1	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A118-2	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D5	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A118-3	PAIR 3' - 0"	7' - 0"	1 3/4"	WD	ST	D5	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A118-4	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D5	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A118-5	PAIR 3' - 0"	7' - 0"	1 3/4"	WD	ST	D5	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A118-6	PAIR 2' - 6"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F3	-	H1	J1	-	-	-	-
A119-1	SGL 3' - 6"	7' - 0"	1 3/4"	WD	ST	D3	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A119-2	SGL 3' - 6"	7' - 0"	1 3/4"	WD	ST	D3	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A119-3	SGL 3' - 6"	7' - 0"	1 3/4"	ETR	PT	ETR	ETR	ETR	PT	ETR	ETR	ETR	ETR	ETR	-	-	-
A120	RCS	6' - 6"		ETR	ETR	ETR	-	ETR	ETR	ETR	-	ETR	ETR	ETR			
A121	SGL 2' - 8"	7' - 0"	1 3/4"	WD	ST	D1	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A122	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A125	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A126	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D4	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A127	PAIR 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F4	-	H17	J17	-	-	-	
A129-1	PAIR 3' - 0"	7' - 0"	1 3/4"	ETR	PT	ETR	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	-
A130-1	SGL 2' - 8"	7' - 0"	1 3/4"	ETR	ETR	ETR	-	ETR	ETR	ETR	-	ETR	ETR	ETR	-	-	-
A130-2	OCD	10' - 0"	3"	ETR	ETR	ETR	-	ETR	ETR	ETR	-	ETR	ETR	ETR			
A131-1	PAIR 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F4	-	H4	J4	-	-	-	-
A131-2	PAIR 3' - 0"	7' - 2"	1 3/4"	WD	ST	D1	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A132-1	PAIR 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A132-2	PAIR 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A133-1	PAIR 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A134	PAIR 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F4	-	H16	J16	-	-	-	-
A135	PAIR 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A136-1	PAIR 3' - 0"	7' - 0"	1 3/4"	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	-	-	-
A136-2	PAIR 3' - 0"	7' - 0"	1 3/4"	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	-	-	-
A138	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A139	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A140	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	HM	PT	F1	-	H20	J20	-	-	-	-
A141	SGL 3' - 4"	7' - 0"	1 3/4"	WD	ST	D1	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A142	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F2	-	H15	J15	-	-	-	-
A143	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A145-1	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A145-2	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	HM	PT	F2	-	H14	J14	-	-	-	-
A146	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR*	G	ETR	ETR	ETR	-	-	5, 7
A147	PAIR 4' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	ETR	-	ETR	ETR	ETR	-	-	9, 10
A148	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR*	G	ETR	ETR	ETR	-	-	5, 7
A149	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR*	G	ETR	ETR	ETR	-	-	5, 7
A151-1	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	ETR	PT	ETR	-	ETR	ETR	ETR		-	-
A151-2	SGL 3' - 0"	3' - 2 1/2"	1 3/4"	ETR	ETR	ETR	-	ETR	ETR	ETR	-	ETR	ETR	ETR	-	-	6
A152-1	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	ETR	PT	ETR	-	ETR	ETR	ETR		-	7
A152-2	PAIR 3' - 0"	7' - 0"	1 3/4"	ETR	PT	ETR	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	-
A154	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A156-1	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7

DOOR AND FRAME SCHEDULE

DOOR								FRAME							UL RATING	STC RATING	REMARKS
	SIZE											DETAIL					
MARK	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	ELEVATION	GLASS	MATERIAL	FINISH	FRAME ELEVATION	GLASS	HEAD	JAMB	SILL			
A156-2	SGL 3' - 0"	7' - 0"	1 3/4"	ETR	PT	ETR	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	-
A157	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A158-1	PAIR 3' - 0"	7' - 0"	1 3/4"	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	-	-	-
A158-2	PAIR 3' - 0"	7' - 0"	1 3/4"	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	-	-	-
A159	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	HM	PT	F1	-	H2	J2	-	-	-	-
A160-1	PAIR 3' - 0"	7' - 0"	1 3/4"	WD	ST	D5	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A160-2	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D5	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A162	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	HM	PT	F1	-	H13	J13	-	-	-	-
A162A	BIFOLD PAIR	7' - 0"	1 3/4"	WD	ST	D8	-	ETR	PT	ETR	-	ETR	ETR	ETR			2
A163	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A164	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	HM	PT	F1	-	H13	J13	-	-	-	-
A165	PAIR 4' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F3	-	H1	J1	-	-	-	9, 10
A166	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
A167	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
B101	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR*	G	ETR	ETR	ETR	-	-	5, 7
B102	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR*	G	ETR	ETR	ETR	-	-	5, 7
B103	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR*	G	ETR	ETR	ETR	-	-	5, 7
B104	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR*	G	ETR	ETR	ETR	-	-	5, 7
B105	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR*	G	ETR	ETR	ETR	-	-	5, 7
B106-1	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
B106-2	SGL 3' - 0"	7' - 0"	1 3/4"	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	-	-	-
B106A	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
B107-1	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
B107-2	SGL 3' - 0"	7' - 0"	1 3/4"	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	-	-	-
B107A	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
B108	PAIR 3' - 0"	7' - 0"	1 3/4"	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	-	-	-
B109-1	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
B109-2	SGL 3' - 0"	7' - 0"	1 3/4"	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	-	-	-
B109A	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
B110-1	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
B110-2	SGL 3' - 0"	7' - 0"	1 3/4"	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	-	-	-
B110A	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
B111	PAIR 4' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	9, 10
B112	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
B113-1	PAIR 3' - 0"	7' - 0"	1 3/4"	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	-	-	-
B113-2	PAIR 3' - 0"	7' - 0"	1 3/4"	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	-	-	-
B114	PAIR 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
B115-1	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR*	G	ETR	ETR	ETR	-	-	5, 7
B115-2	SGL 3' - 0"	7' - 0"	1 3/4"	AL	AN	D6	A	AL	AN	F8	A	H8	J8	S8	-	-	-
B115A	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F1	-	H1	J1	-	-	-	-
B116	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR*	G	ETR	ETR	ETR	-	-	5, 7
B117	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR*	G	ETR	ETR	ETR	-	-	5, 7
B118	CASED 7' - 2"	8' - 8"	6"	-	-	-	-	-	PT	F9	B	H11, H21	J11, J21	-	-	-	-
B119-1	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
B119-2	SGL 1' - 8"	7' - 0"	1 3/4"	ETR	ETR	ETR	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	-
B120	CASED 7' - 2"	8' - 8"	6"	-	-	-	-	-	PT	F9	B	H11, H21	J11, J21	-	-	-	-
C101	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	HM	PT	F1	-	H1	J1	-	-	-	-
C101A	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
C102	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	HM	PT	F1	-	H3	J3	-	-	-	-
C104	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	HM	PT	F2	-	H9	J9	-	45MIN	-	-
C105	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F2	-	H5	J5	-	45MIN	-	-
C106	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F5	B	H5	J5	J5 SIM	-	-	-
C107-1	PAIR 3' - 0"	7' - 0"	1 3/4"	WD	ST	D-	B	HM	PT	F4	-	H6	J6	-	-	-	-
C107-2	PAIR 3' - 0"	7' - 0"	1 3/4"	HM	PT	D1	-	HM	PT	F4	-	H10	J10	S7 SIM	-	-	-
C107-3	PAIR 3' - 0"	7' - 0"	1 3/4"	HM	PT	D1	-	HM	PT	F4	-	H10	J10	S7 SIM	-	-	-
C108	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F2	-	H5	J5	-	45MIN	-	-
C108A-1	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F2	-	H5	J5	-	45MIN	-	-
C109	PAIR 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F4	-	H5	J5	-	-	-	-
C113-1	PAIR 3' - 0"	7' - 0"	1 3/4"	AL	AN	D8	F	AL	AN	F6	F	H7	J7	S7	-	-	9
C113-2	PAIR 3' - 0"	7' - 0"	1 3/4"	AL	AN	D8	B	AL	AN	F6	B	H7	J7	-	-	-	-
C114	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F1	-	H2	J2	-	-	-	-
C115	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F1	-	H2	J2	-	-	-	-
C116	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F1	-	H2	J2	-	-	-	-
C117	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F1	-	H2	J2	-	-	-	-
C118	PAIR 4' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F3	-	H1	J1	-	-	-	9, 10
C120	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	HM	PT	F1	-	H2	J2	-	-	-	-
C121	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	HM	PT	F1	-	H2	J2	-	-	-	-
C122-1	PAIR 3' - 0"	7' - 0"	1 3/4"	AL	AN	D8	F	AL	AN	F7	F	H7	J7	S7	-	-	9
C122-2	PAIR 3' - 0"	7' - 0"	1 3/4"	AL	AN	D8	B	AL	AN	F7	B	H7	J7	S7	-	-	-
C123	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	HM	PT	F1	-	H2	J2	-	-	-	-
C124	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
C125	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
C126	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	HM	PT	F2	-	H14	J14	-	-	-	-
C127	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
C128	CASED 7' - 2"	8' - 8"	6"	-	-	-	-	-	PT	F9	B	H11, H21	J11, J21	-	-	-	-
C129-1	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
C129-2	SGL 1' - 8"	7' - 0"	1 3/4"	ETR	ETR	ETR	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	
C130	CASED 7' - 2"	8' - 8"	6"	-	-	-	-	-	PT	F9	B	H11, H21	J11, J21	-	-	-	-
C132	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
C133	PAIR 4' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	HM	PT	F3	-	H1	J1	-	-	-	9, 10
C134	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
C135	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7
C135A	BIFOLD PAIR	7' - 0"	1 3/4"	WD	ST	D8	-	ETR	PT	ETR	-	ETR	ETR	ETR			2
C136-1	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D2	B	HM	PT	F1	-	H2	J2	-	-	-	-
C136-2	SGL 3' - 0"	7' - 0"	1 3/4"	WD	ST	D1	-	ETR	PT	ETR	-	ETR	ETR	ETR	-	-	7

FRAME ELEVATIONS

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

DOOR ELEVATIONS

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

BORROWED LITE SCHEDULE

MARK	ELEVATION	MATERIAL / FINISH	GLASS TYPE	HEAD	JAMB	SILL
BLA100-1	ETR	HM/PT	E	ETR	ETR	ETR
BLA100-2	ETR	HM/PT	E	ETR	ETR	ETR
BLA100-3	ETR	HM/PT	E	ETR	ETR	ETR
BLA101-1	ETR	HM/PT	C	ETR	ETR	ETR
BLA103	BL3	HM/PT	B	H19	J19	
BLA118	BL4	HM/PT	B	H18	J18	S18
BLC136A	BL2	HM/PT	B	H12	J12	
BLC136B	BL1	HM/PT	B	H12	J12	

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WINDOW SCHEDULE

MARK	MATERIAL/ FINISH	GLASS TYPE	Head	Jamb	Sill
W1	AL/AN	F	WH2	WJ1	WS1
W2	AL/AN	F	WH1	WJ1	WS1
W3	AL/AN	A	REFER TO SECTION 1/A401	REFER TO SECTION 1/A401	REFER TO SECTION 1/A401

WINDOW ELEVATIONS

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

BORROWED LITE ELEVATIONS

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

GLASS SCHEDULE

A. 1" THICK TEMPERED, LOW E, INSULATING GLAZING WITH 2 PANES 1/4" TEMPERED GLASS AND 1/2" AIRSPACE. TO MATCH EXISTING.
B. 1/4" THICK CLEAR TEMPERED GLASS.
C. 1/4" THICK LAMINATED CLEAR GLASS.
D. 1" THICK, LOW E, SCHOOL GUARD GLASS. TINT TO MATCH EXISTING.
E. 1/4" THICK CLEAR SCHOOL GUARD GLASS.
F. 1" THICK, INSULATING LOW E GLAZING, 1/4" TEMPERED OUTSIDE, 1/4" LAMINATED INSIDE.
G. TACKABLE PANEL IN SIDELIGHT

ABBREVIATIONS LEGEND

AL = ALUMINUM
AN = ANODIZED
BL = BORROWED LITE
CO = CASED OPENING
ETR = EXISTING TO REMAIN
GHM = GALVANNEALED HOLLOW METAL
GL = GLASS
HM = HOLLOW METAL
OCS = OVERHEAD COILING DOOR (ETR)
OPP = OPERABLE PANEL PARTITION
PT = PAINT
RCS = ROLLING COUNTER SHADE (ETR)
ST = STAIN
SS = STAINLESS STEEL
STL = STEEL
WD = WOOD
90M = 90 MINUTE ASSEMBLY RATING
* = SEE REMARKS COLUMN FOR NOTES

GENERAL DOOR NOTES

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

KEYED REMARKS

1

1. FIELD VERIFY ALL EXISTING CONDITIONS – EXISTING GLAZING IN ALUMINUM STOREFRONT DOORS AND FRAMES INCLUDING SIDELITES AND TRANSOMS TO BE REPLACED WITH SCHOOL GUARD GLASS TO MIN 7'-0". SEE SCHEDULE FOR GLASS TYPE AT EACH LOCATION.

2. BI-FOLD SOLID CORE WOOD DOORS. PROVIDE NEW TRACK AND HARDWARE.

3. NOT USED

4. NOT USED

5. REMOVE EXISTING GLASS INCLUDING STOPS FROM FRAME SIDELIGHTS SEE DETAIL D1/A503 FOR NEW TACKABLE INSERTS.

6. EXISTING DOOR AND FRAME TO TUNNEL (BELOW) TO REMAIN.

7. NEW DOOR LEAF (LEAVES) IN EXISTING FRAME.

8. NEW HARDWARE ON EXISTING DOOR.

9. CARD READER.

10. MAGNETIC HOLD-OPEN TO RELEASE BY LOCKDOWN.

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PROJECT:

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1800 N. FRANKLIN RD. INDIANAPOLIS, IN 46219

SCOPE DRAWINGS:

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REVISIONS:

1	ADDENDUM #1	03-15-21
2	ADDENDUM #2	03-24-21

ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	LTR	CAM

DRAWING TITLE:

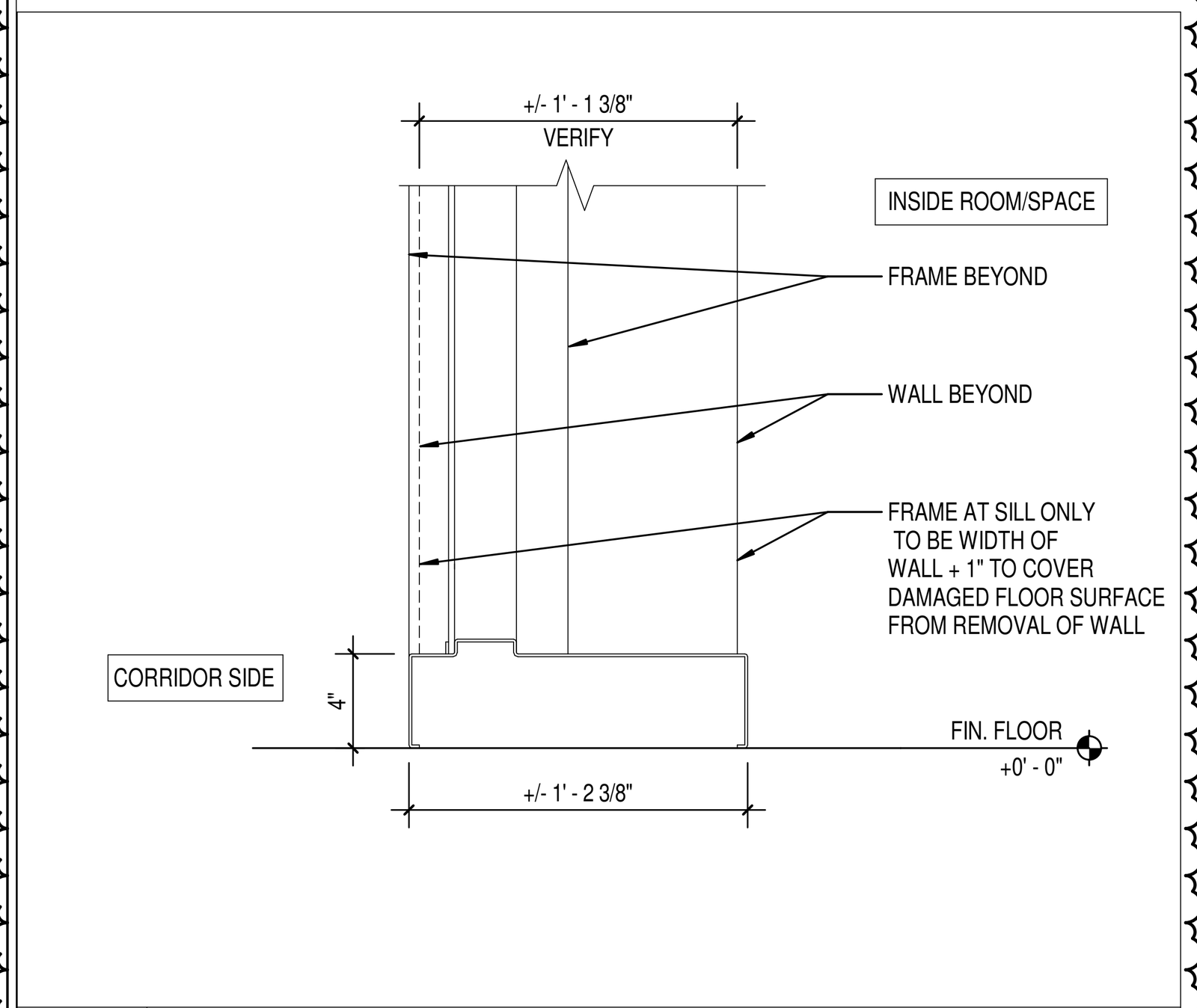
DOOR
SCHEDULE &
OPENING
ELEVATIONS

CERTIFIED BY:

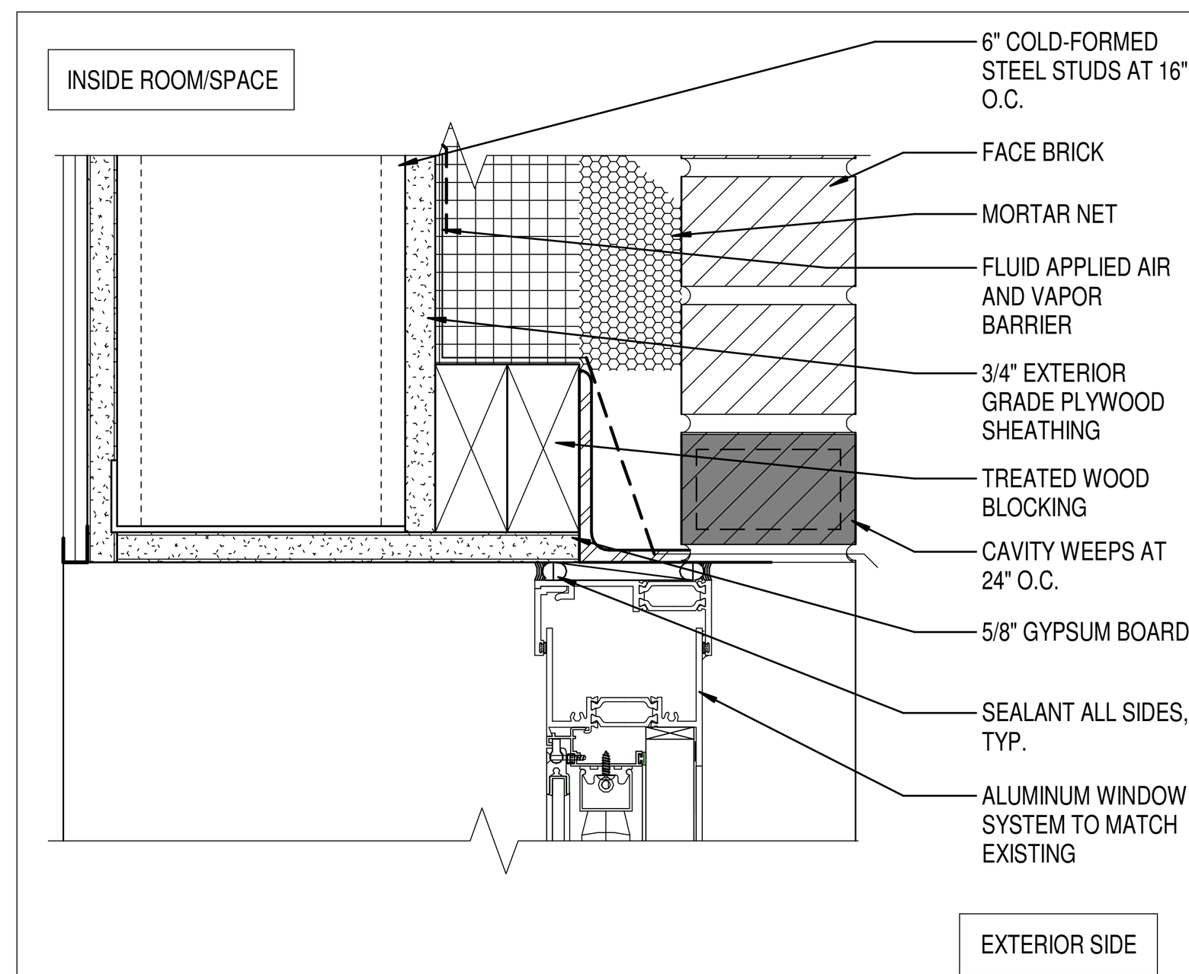
JOHN E. RIGSBEE
No. 920019

DRAWING NUMBER
A501

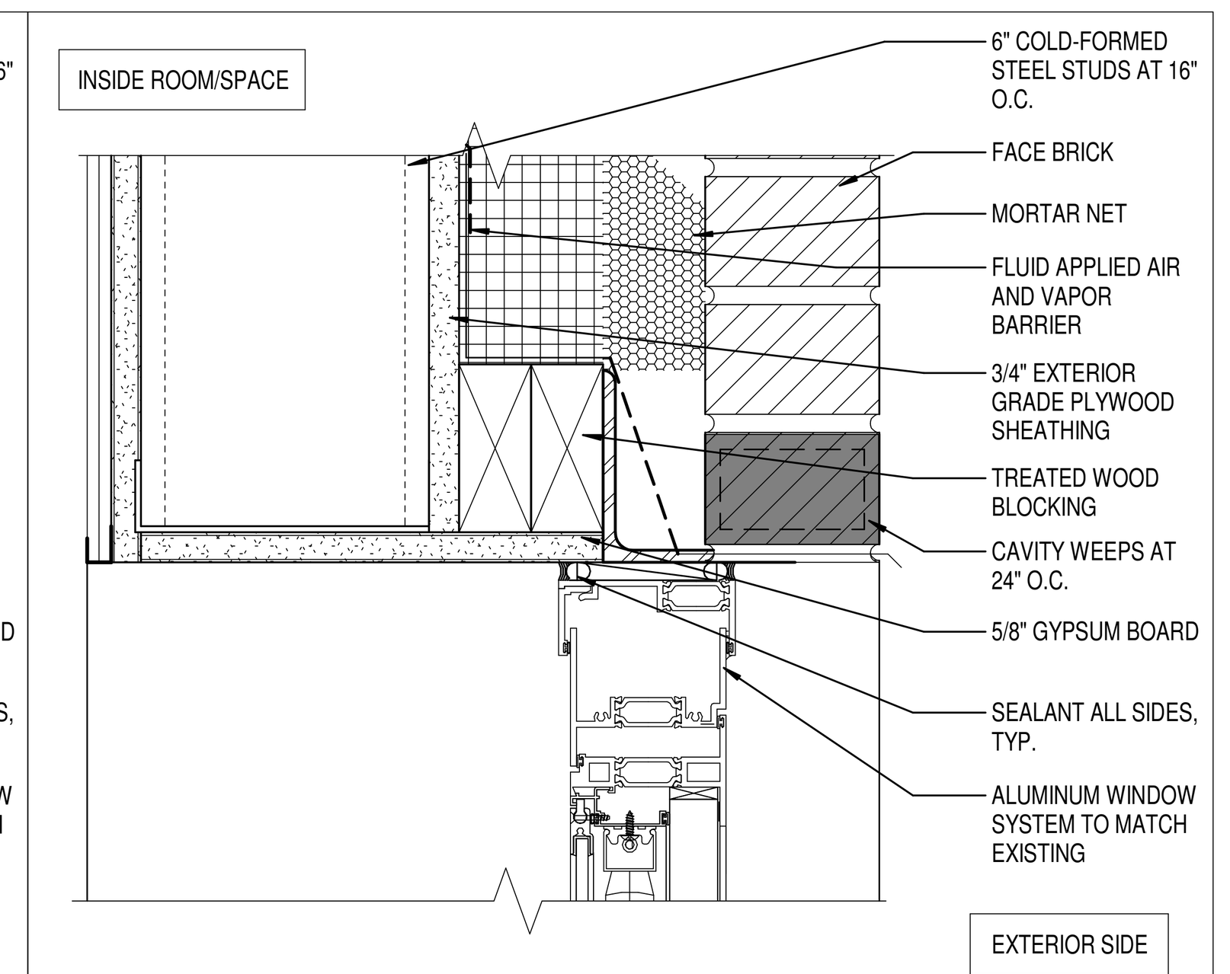
PROJECT NUMBER
2020061



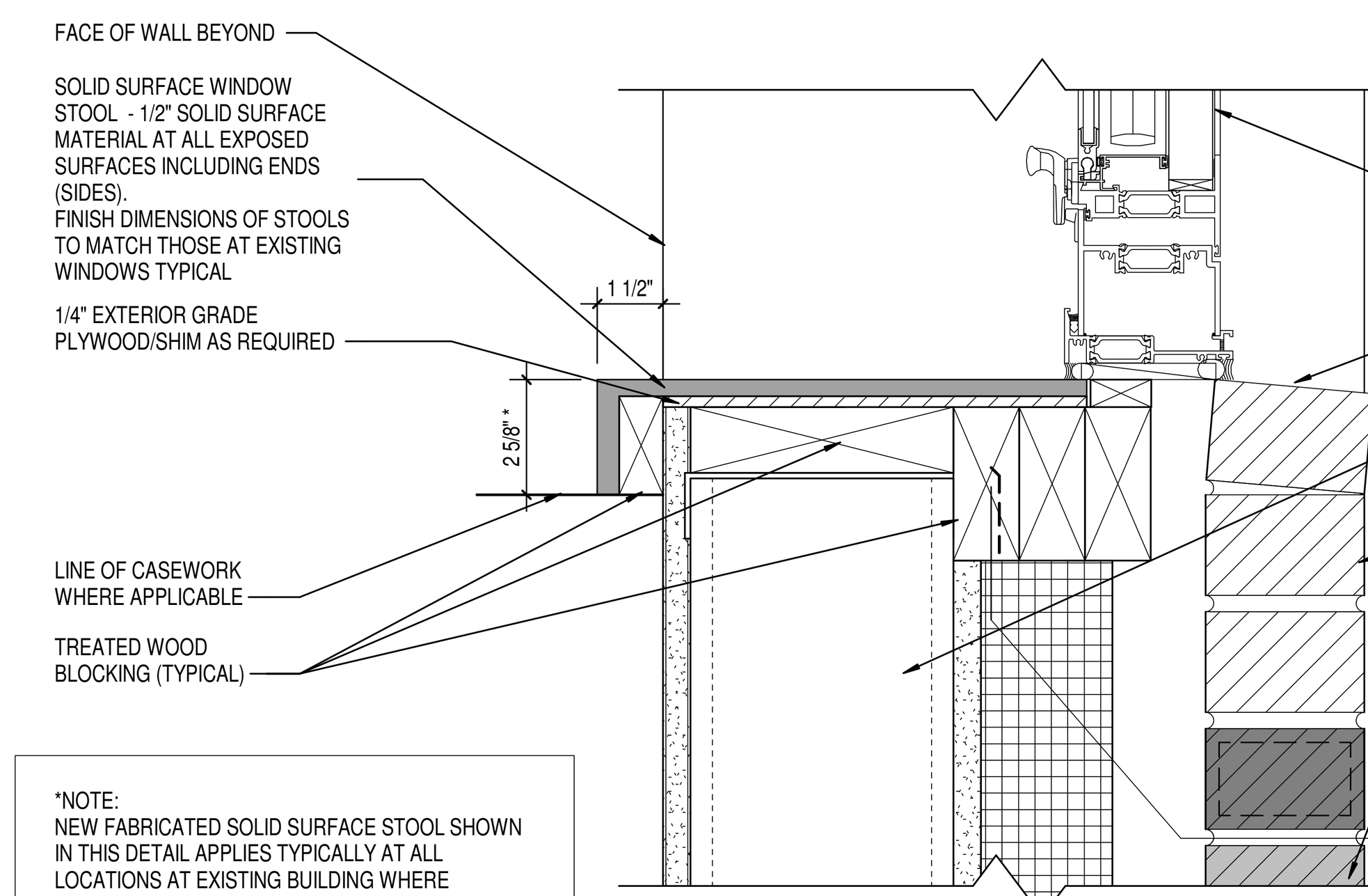
S18 HM BORROWED LIGHT
SCALE: 1 - 1/2" = 1' - 0"



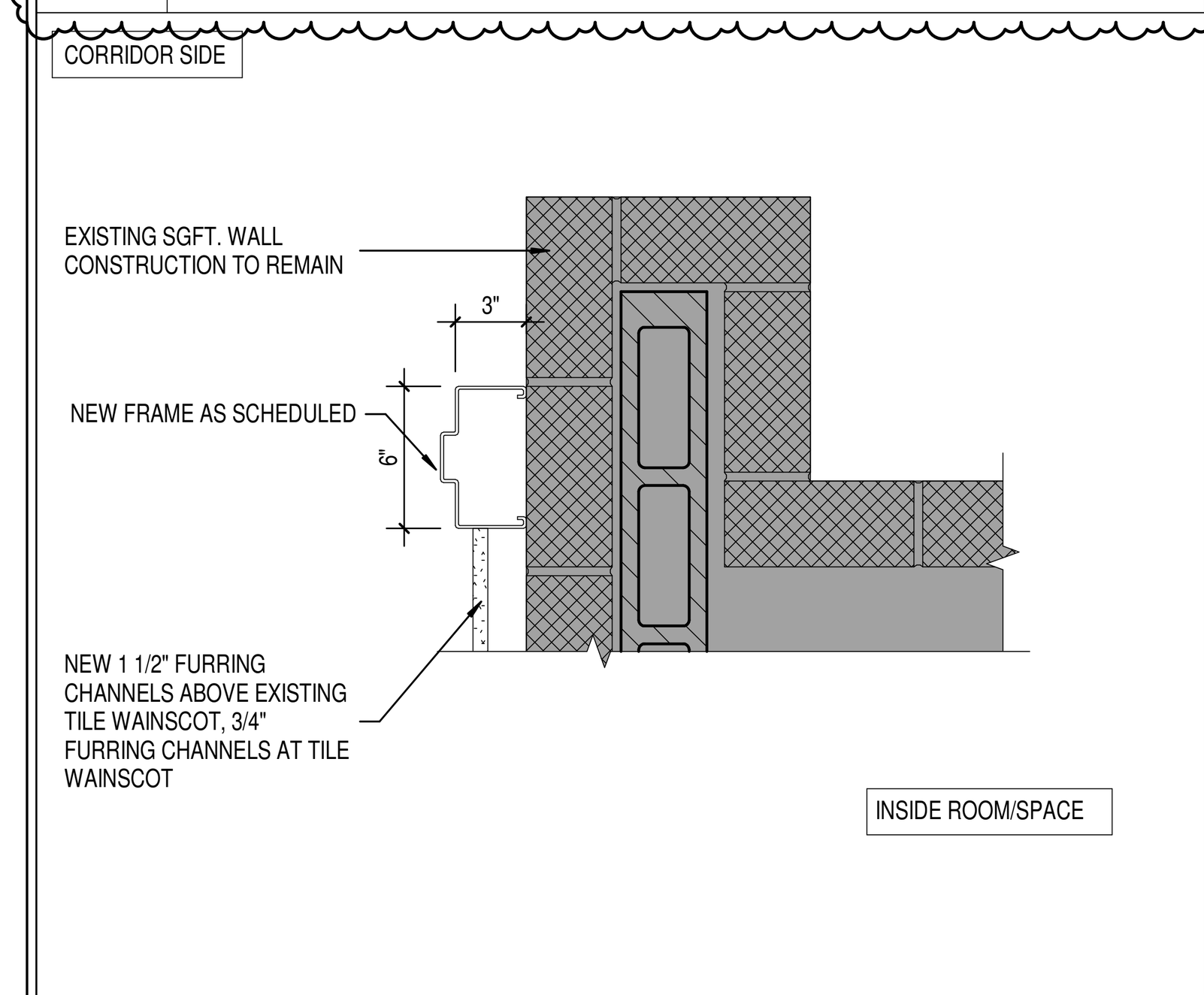
WH2 EXTERIOR WINDOW DETAIL - FIXED HEAD
SCALE: 3" = 1' - 0"



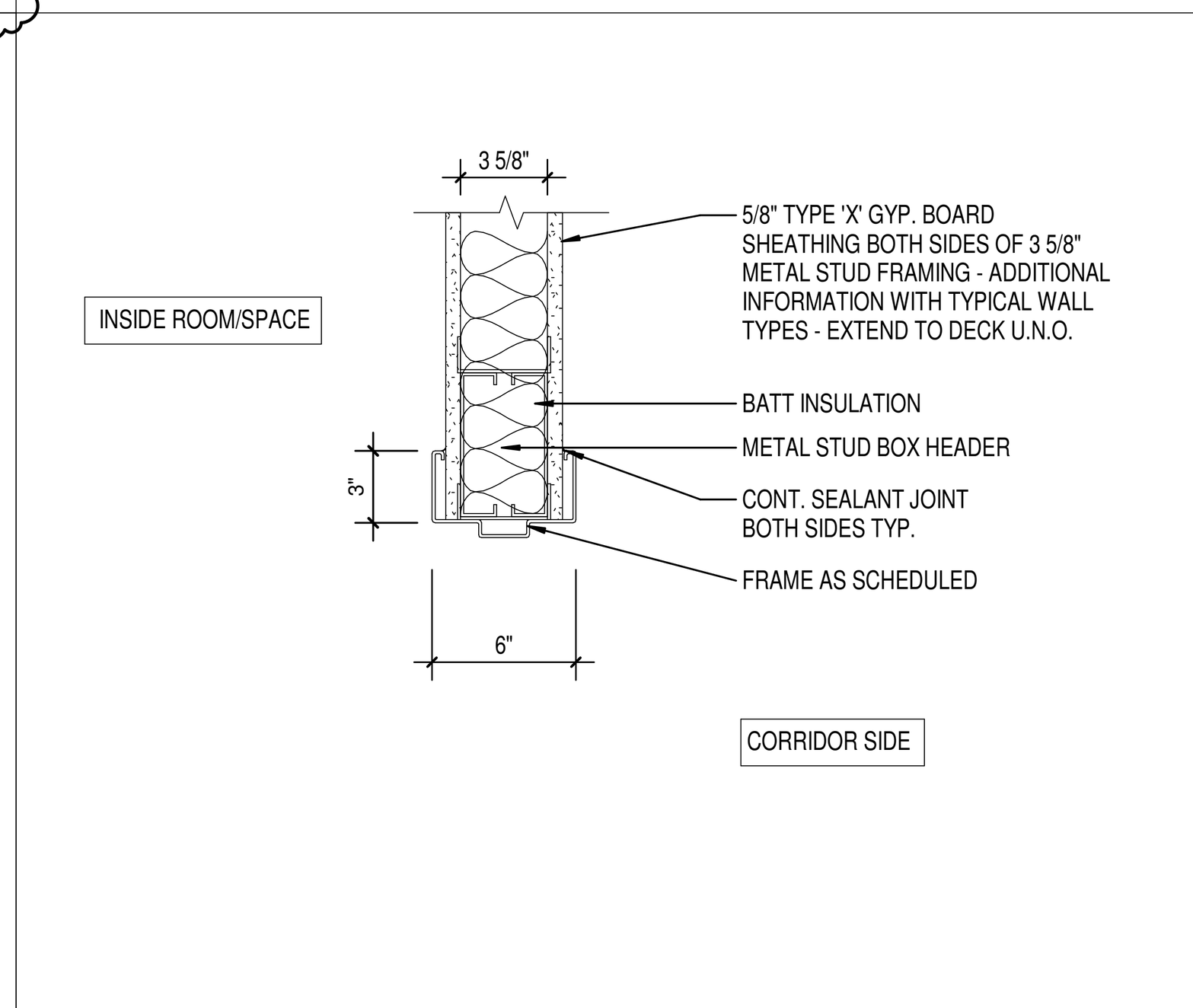
WH1 EXTERIOR WINDOW DETAIL-OPERABLE HEAD
SCALE: 3" = 1' - 0"



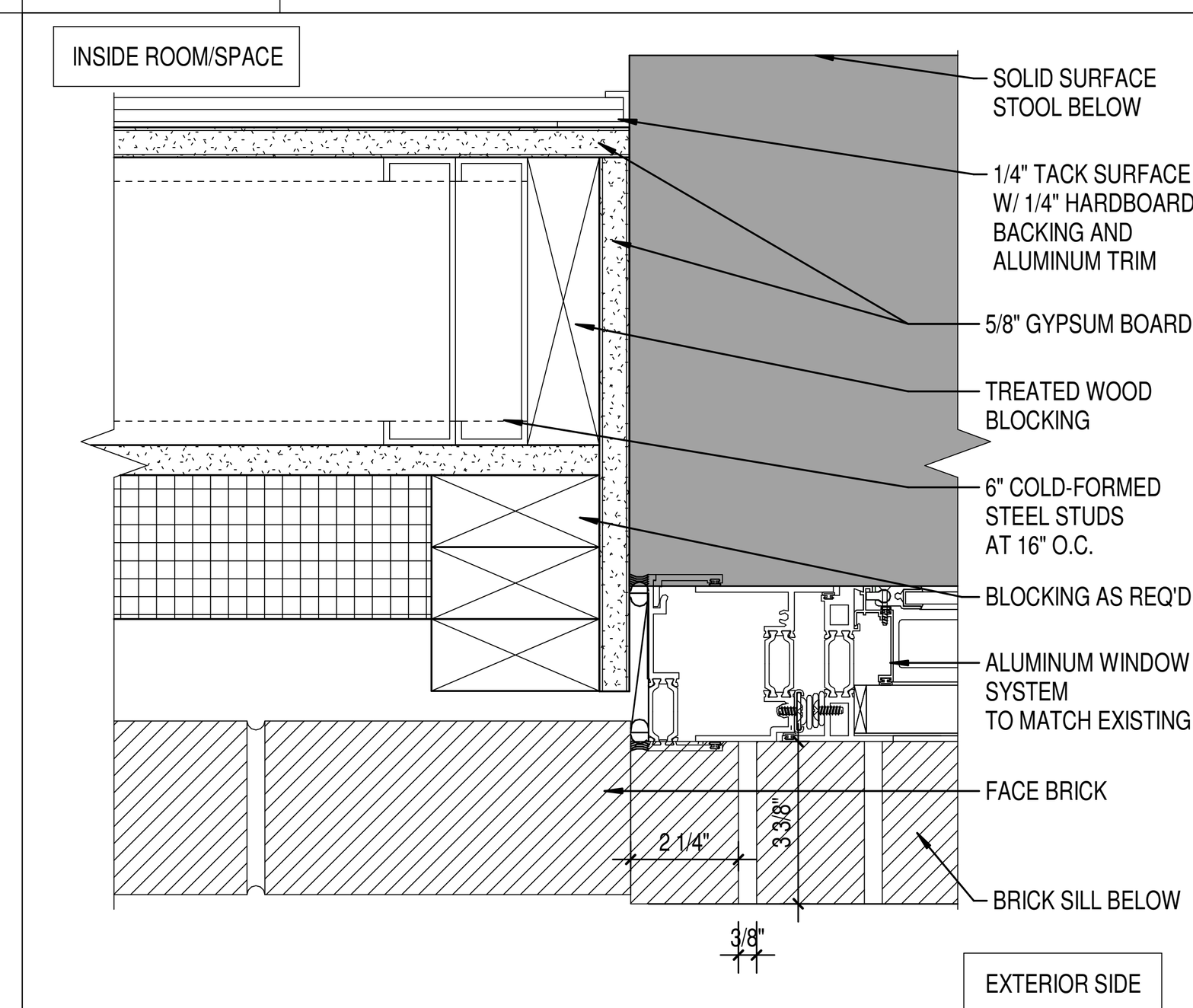
D2 / A503 TYP. SILL DETAIL
SCALE: 3" = 1'-0"



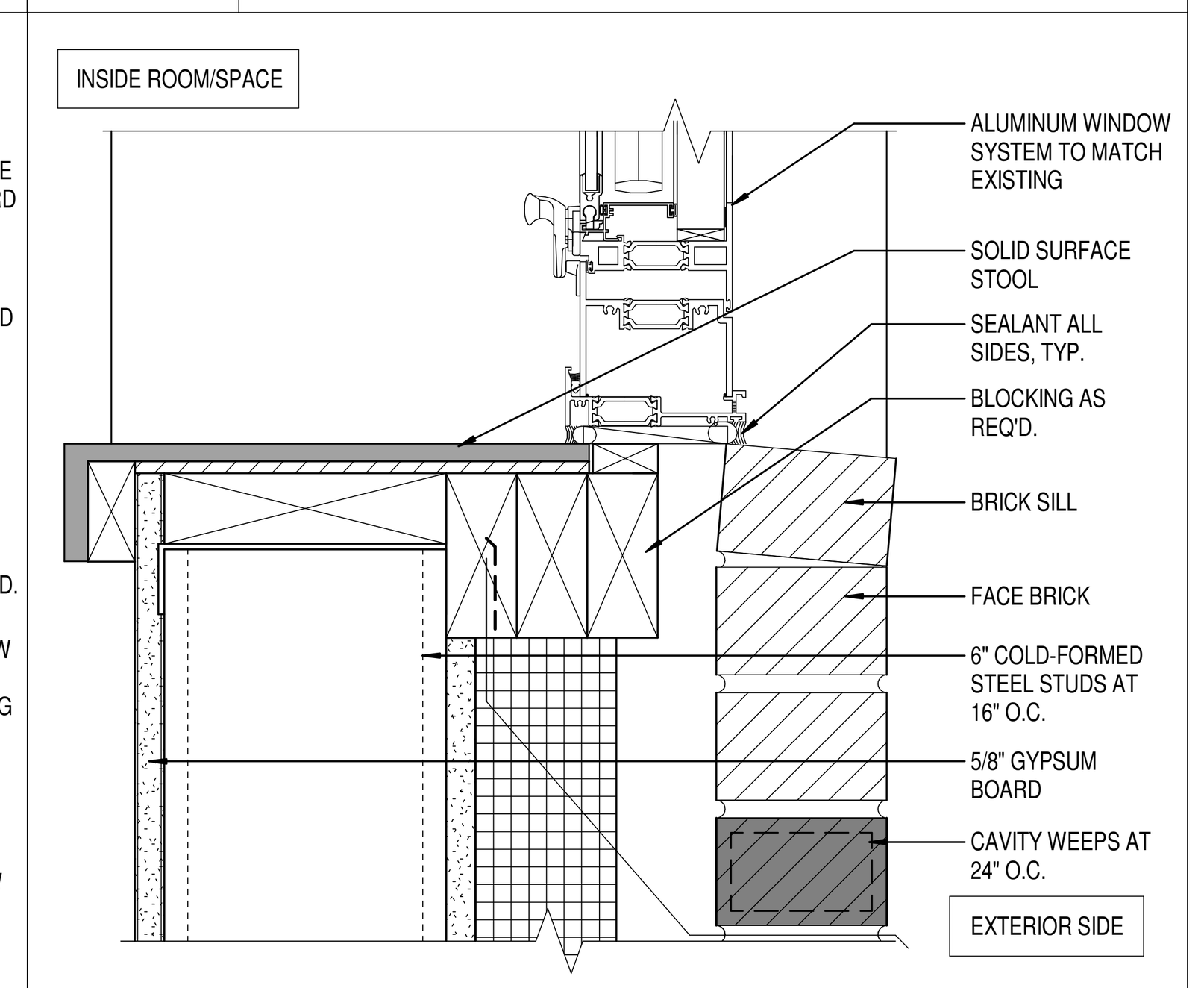
J21 HM OPENING JAMB IN METAL STUD FRAMING
SCALE: 1 - 1/2" = 1' - 0"



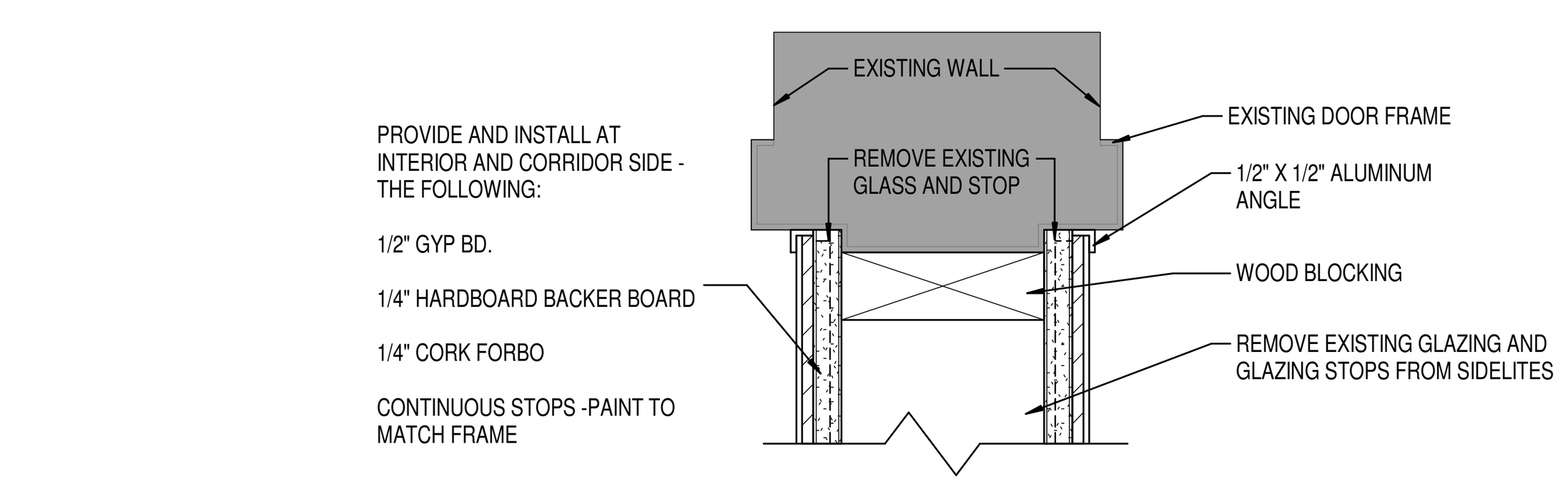
H21 HM OPENING HEAD IN METAL STUD FRAMING
SCALE: 1 - 1/2" = 1' - 0"



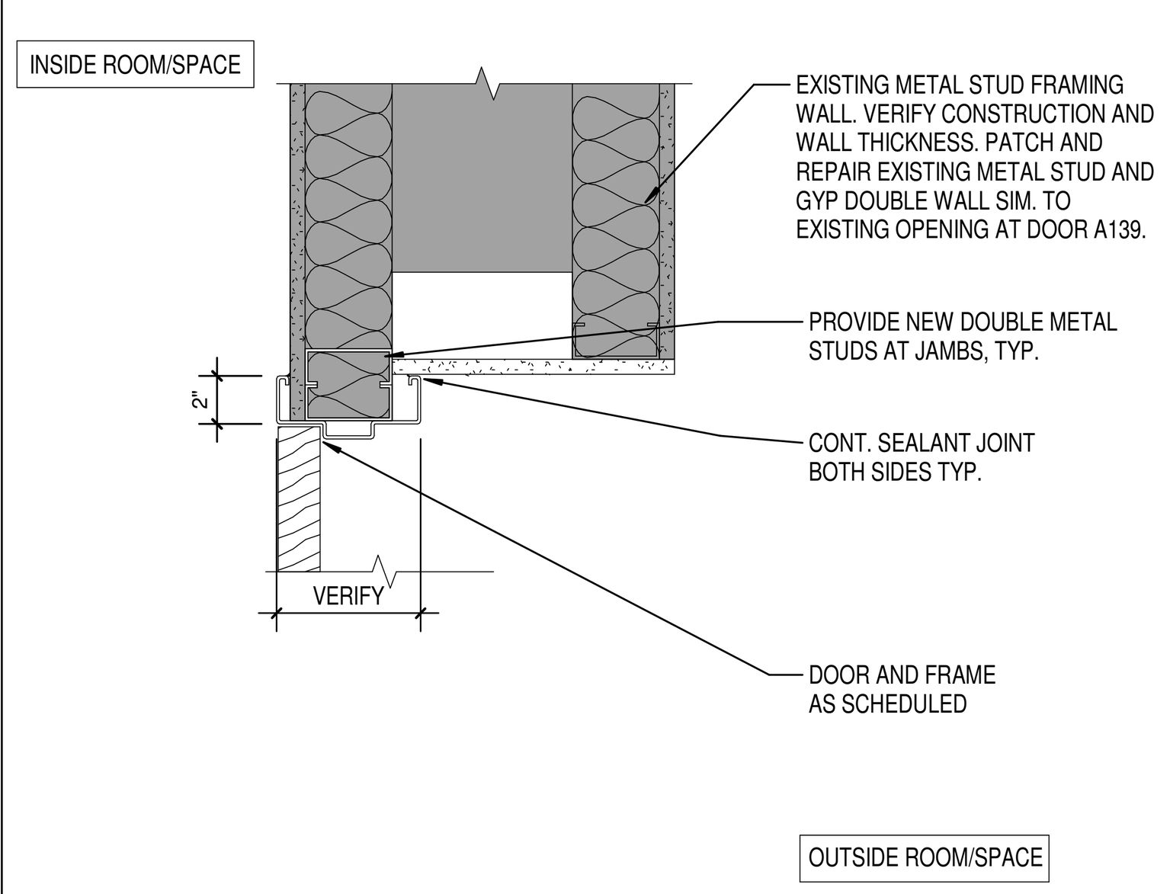
WJ1 EXTERIOR WINDOW DETAIL - JAMB
SCALE: 3" = 1' - 0"



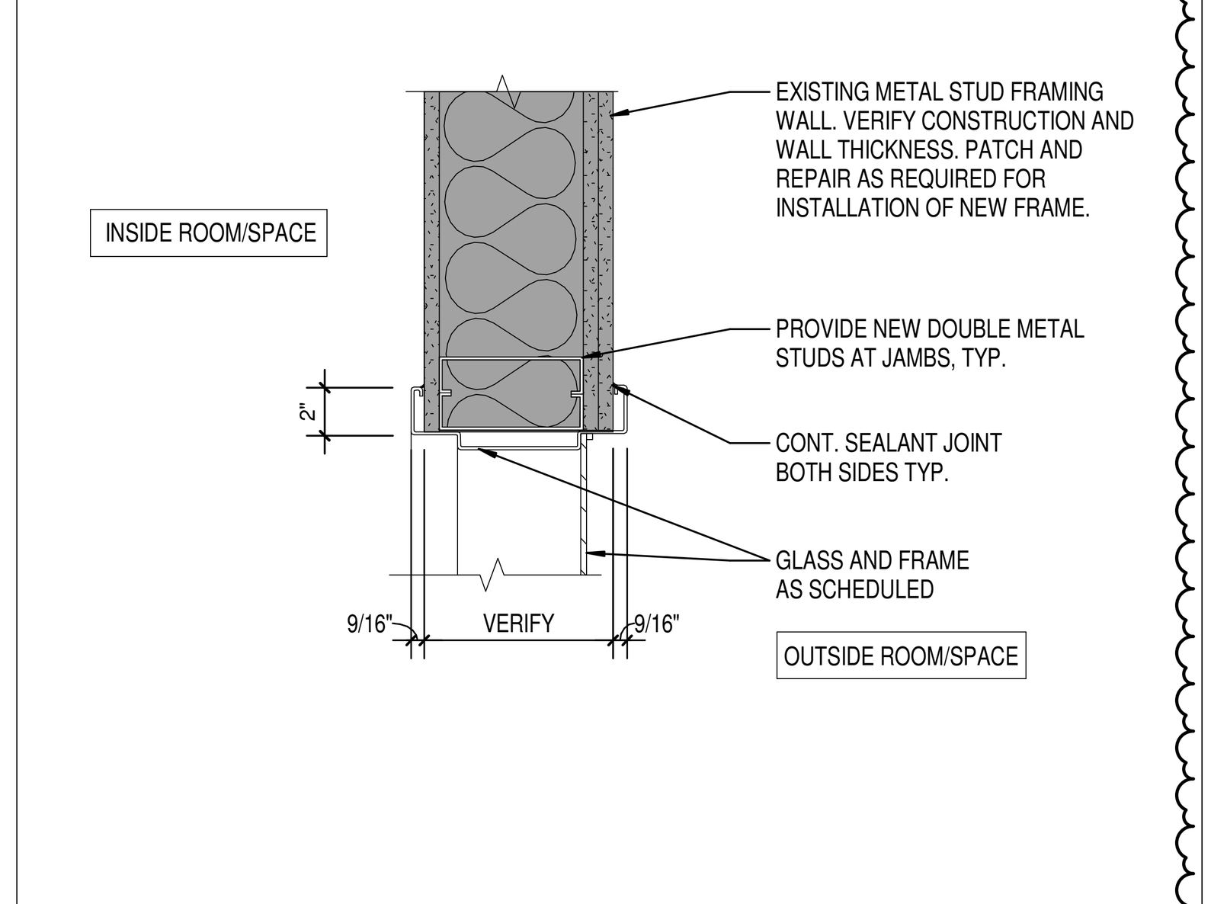
WS1 EXTERIOR WINDOW DETAIL - SILL
SCALE: 3" = 1' - 0"



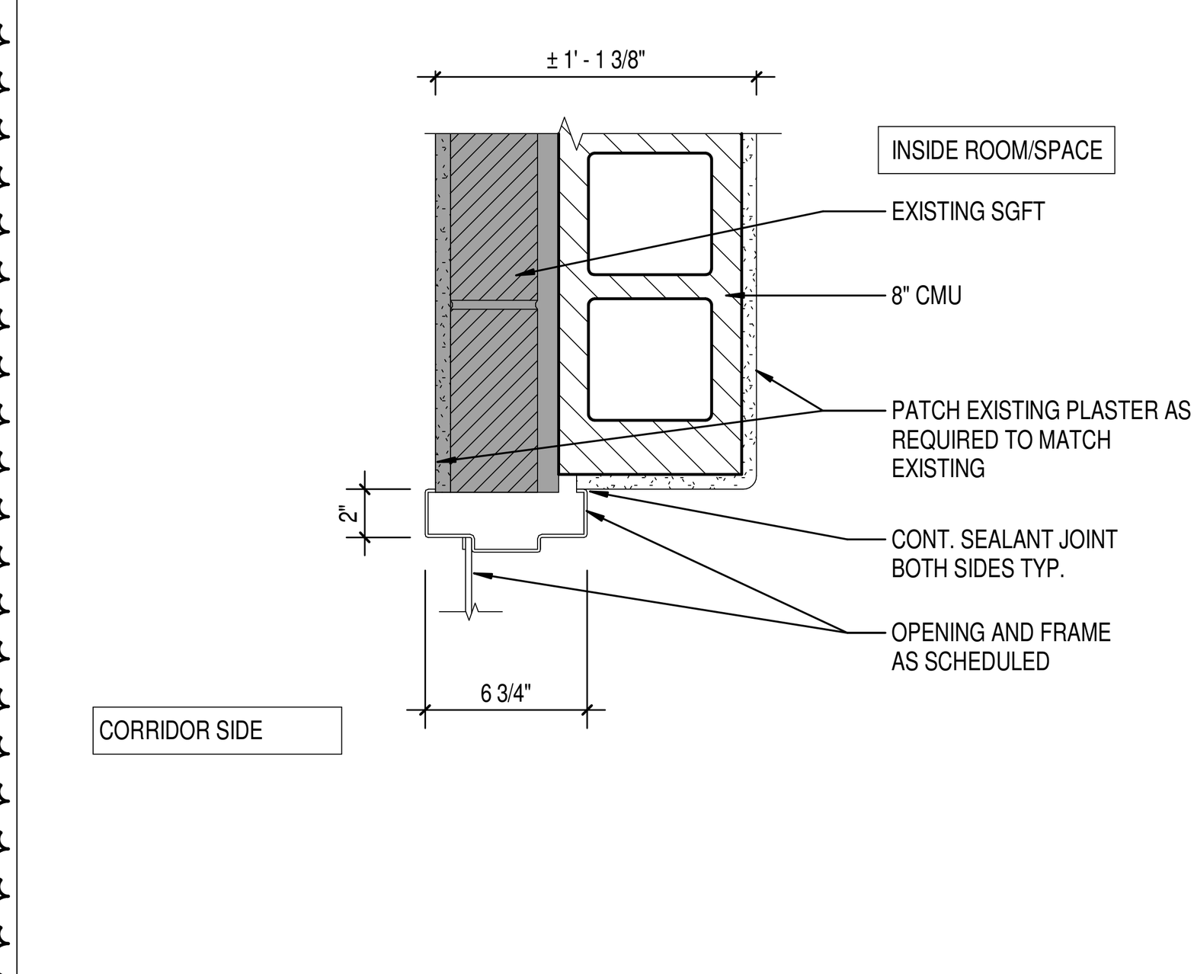
D1 / A503 SIDELIGHT DISPLAY DETAIL
SCALE: 3" = 1'-0"



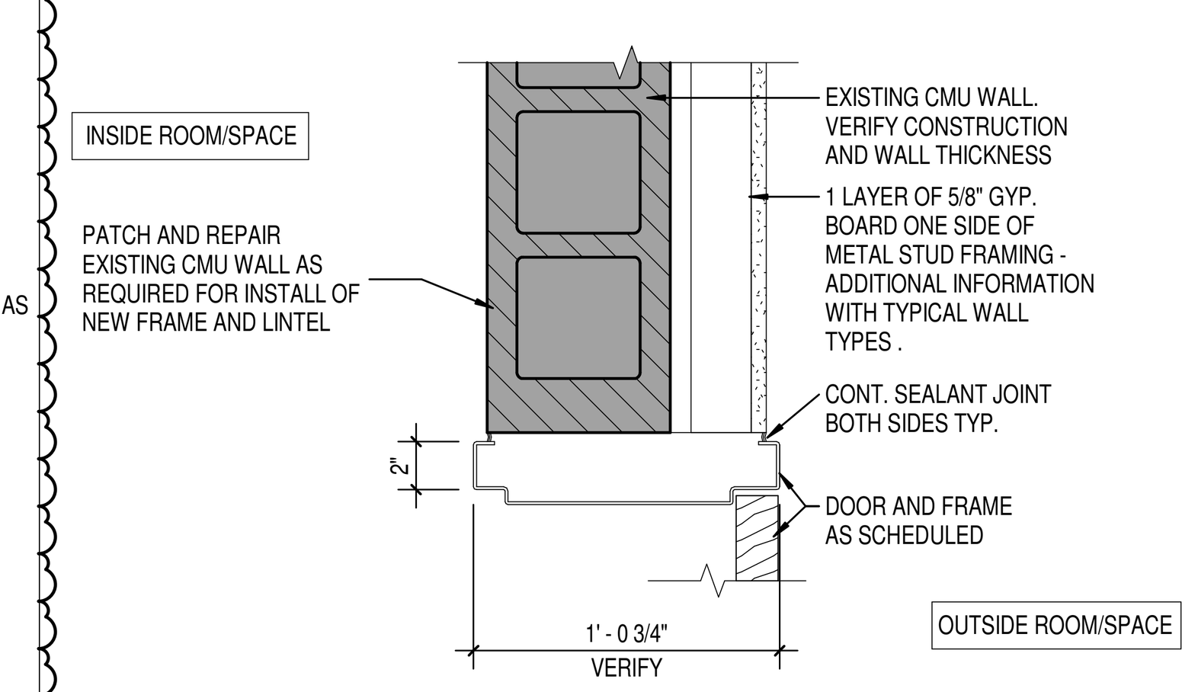
J20 HM DOOR JAMB EXIST (2 1/2"-6" MTL STUD)
SCALE: 1 - 1/2" = 1' - 0"



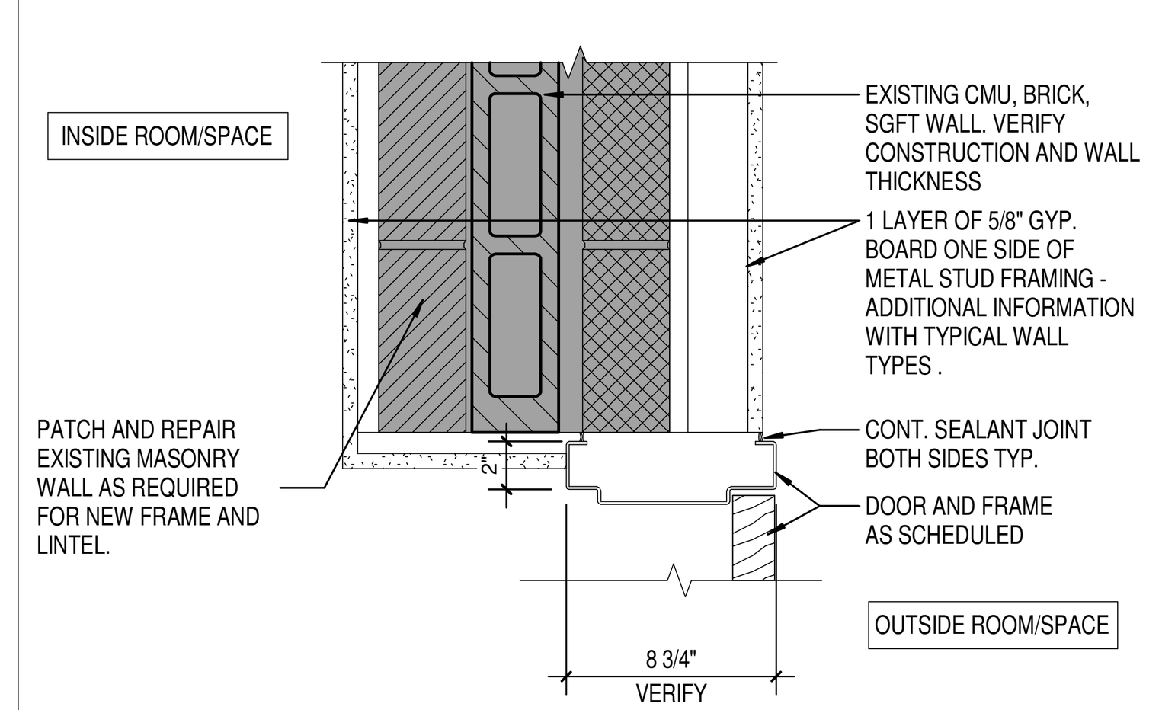
J19 HM BORROWED LITE JAMB EXIST (2 1/2"-6" MTL STUD)
SCALE: 1 - 1/2" = 1' - 0"



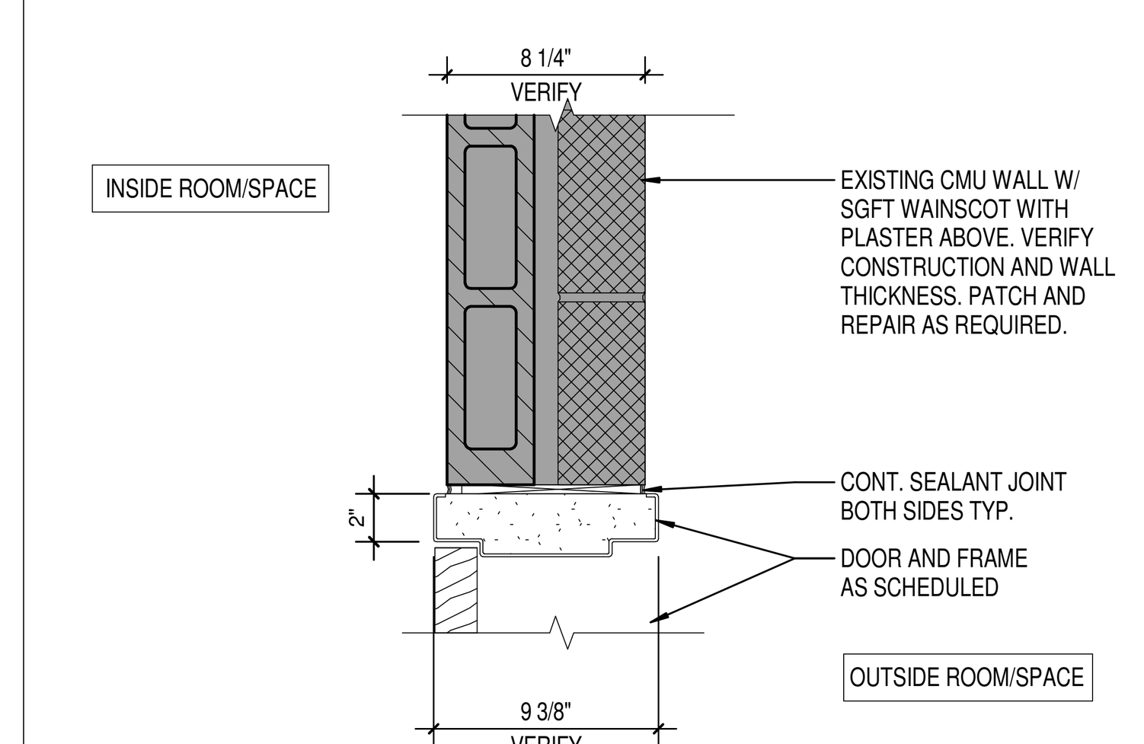
J18 HM BORROWED LITE EXIST 8" CMU + 4" SGFT
SCALE: 1 - 1/2" = 1' - 0"



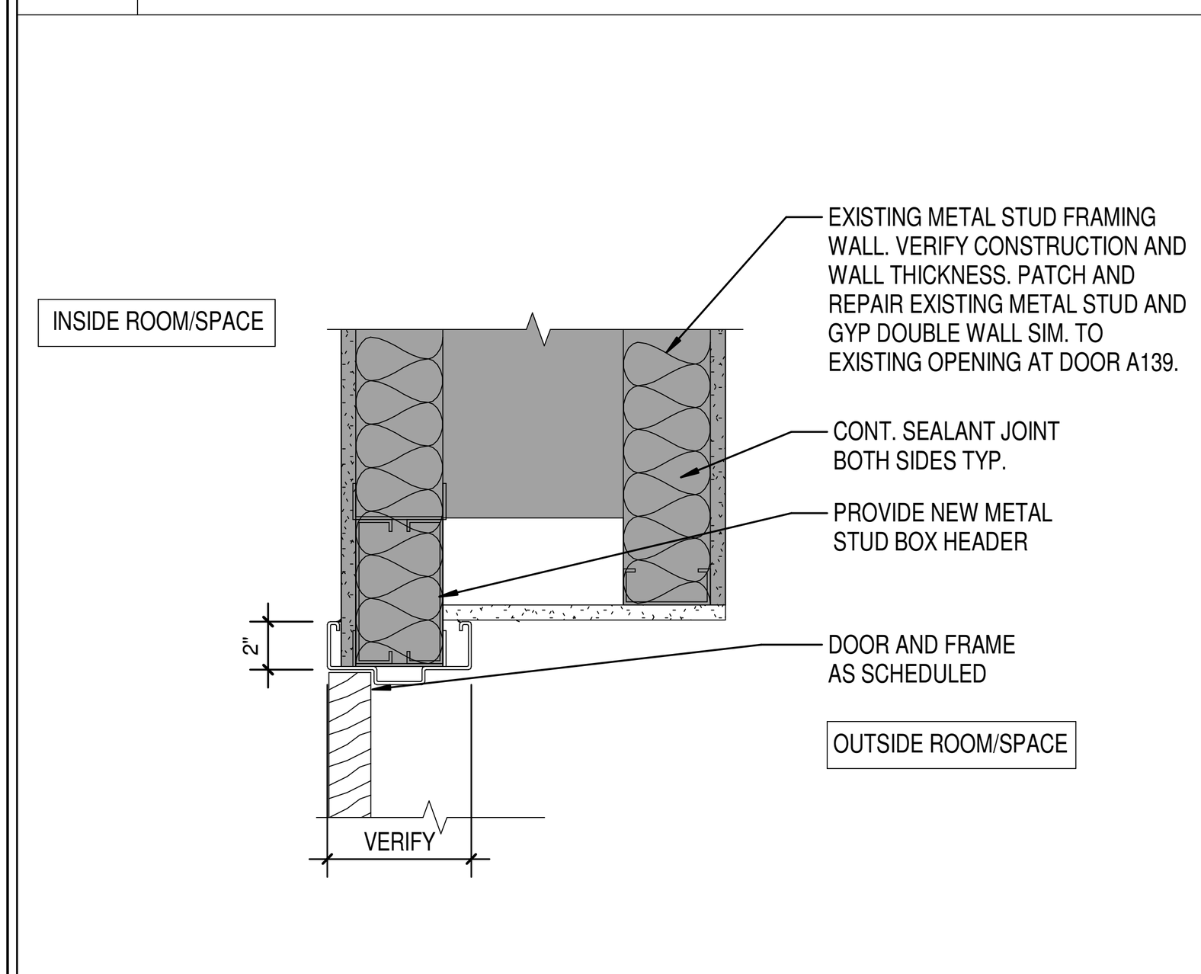
J17 HM DOOR JAMB EXIST 8" CMU + FURRING
SCALE: 1 - 1/2" = 1' - 0"



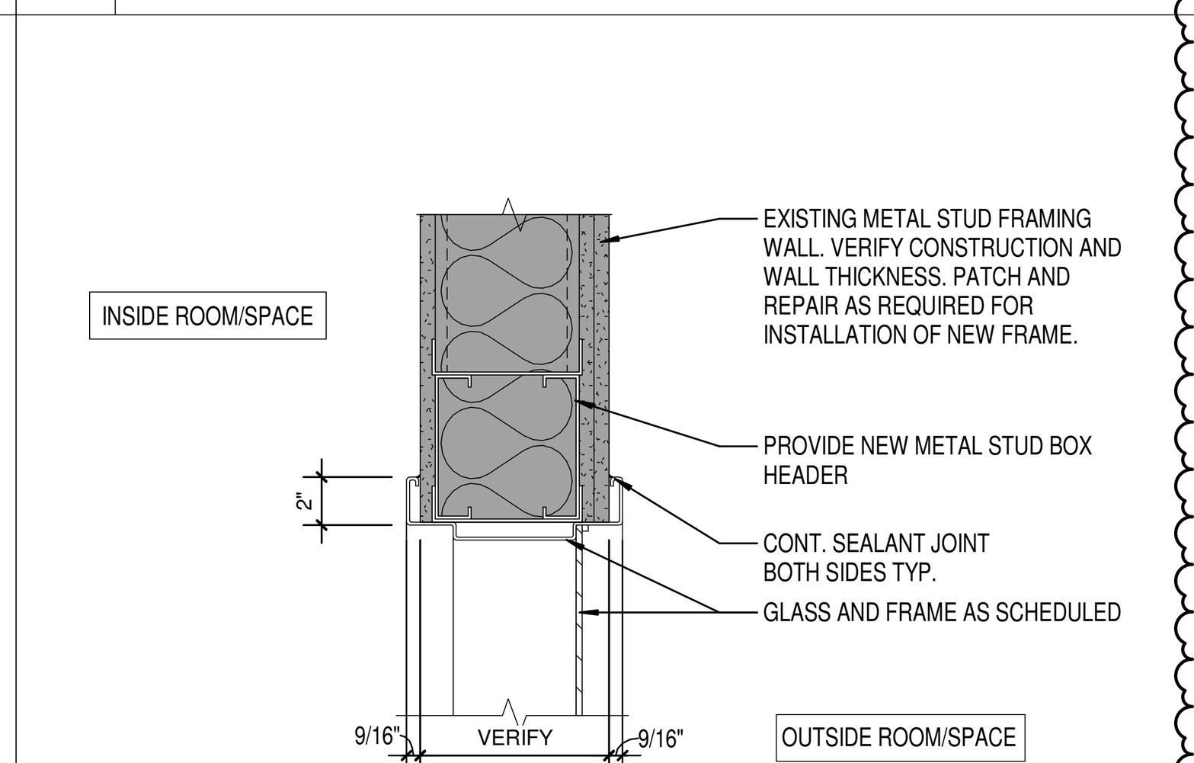
J16 HM DOOR JAMB EXIST 4" CMU + BRICK + SGFT+ FURRING
SCALE: 1 - 1/2" = 1' - 0"



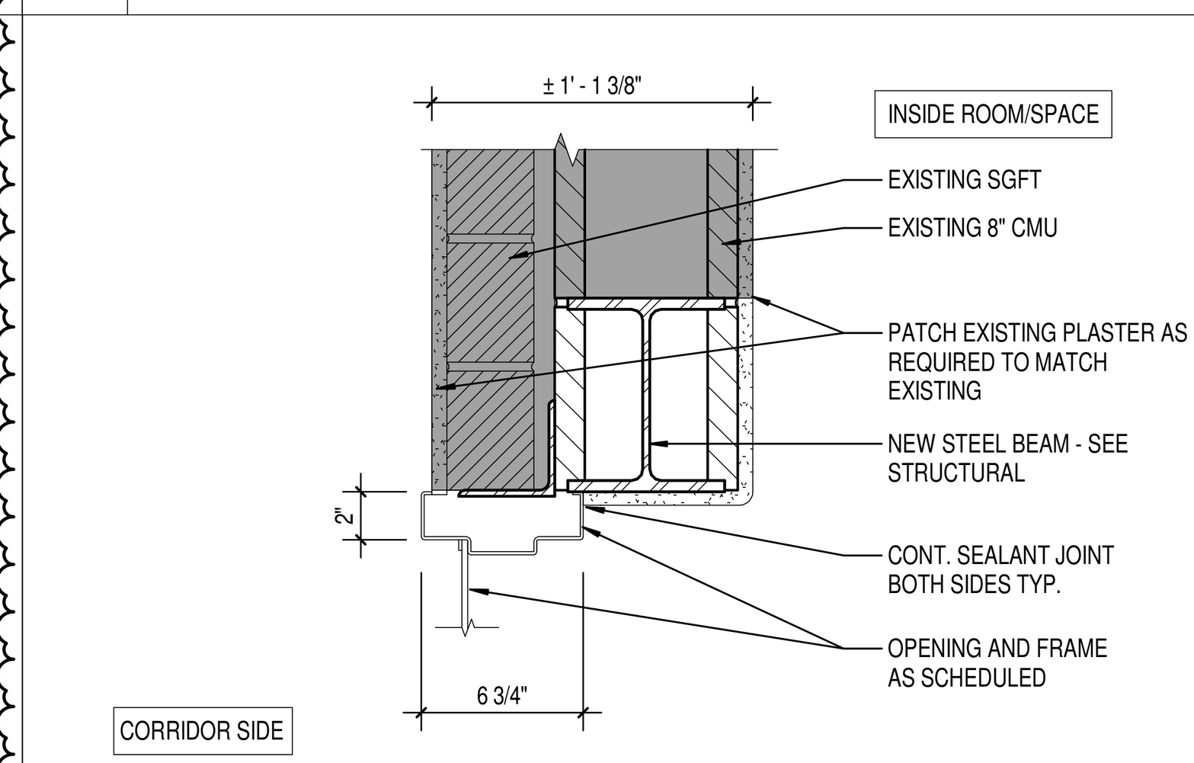
J15 HM DOOR JAMB EXIST 4" CMU + 4" SGFT
SCALE: 1 - 1/2" = 1' - 0"



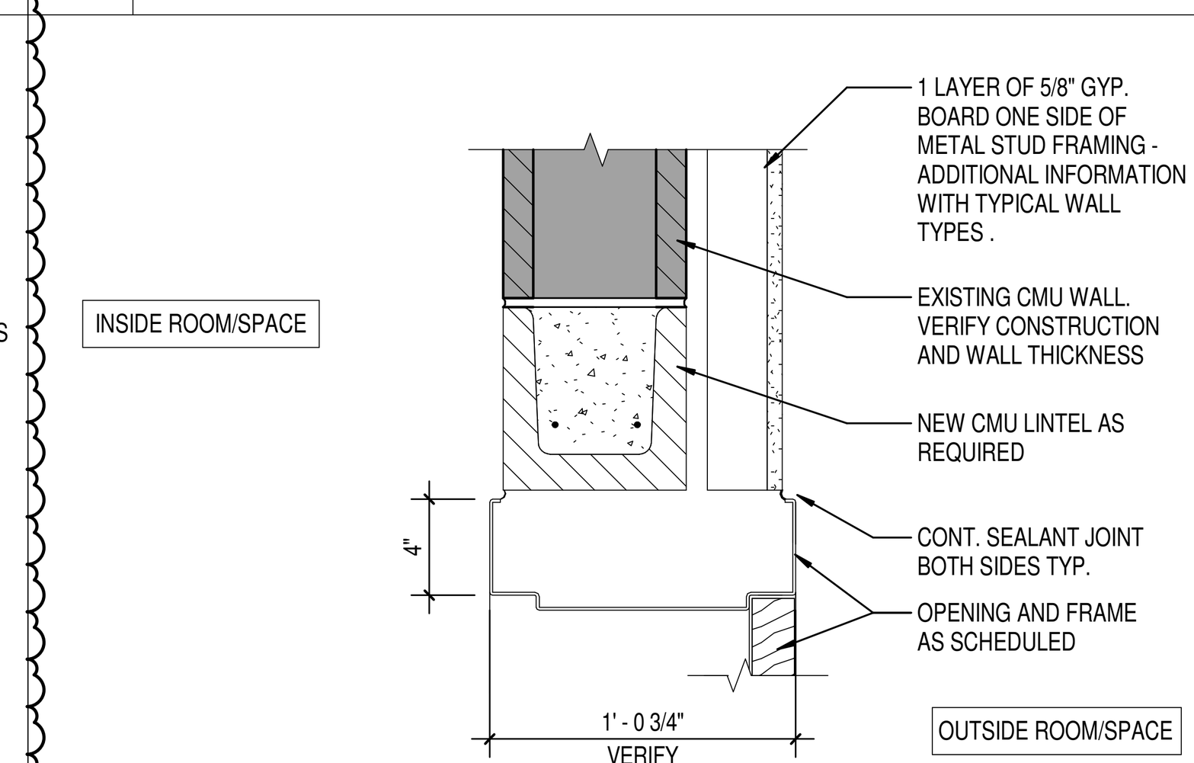
H20 HM DOOR HEAD EXIST (2 1/2"-6" MTL STUD)
SCALE: 1 - 1/2" = 1' - 0"



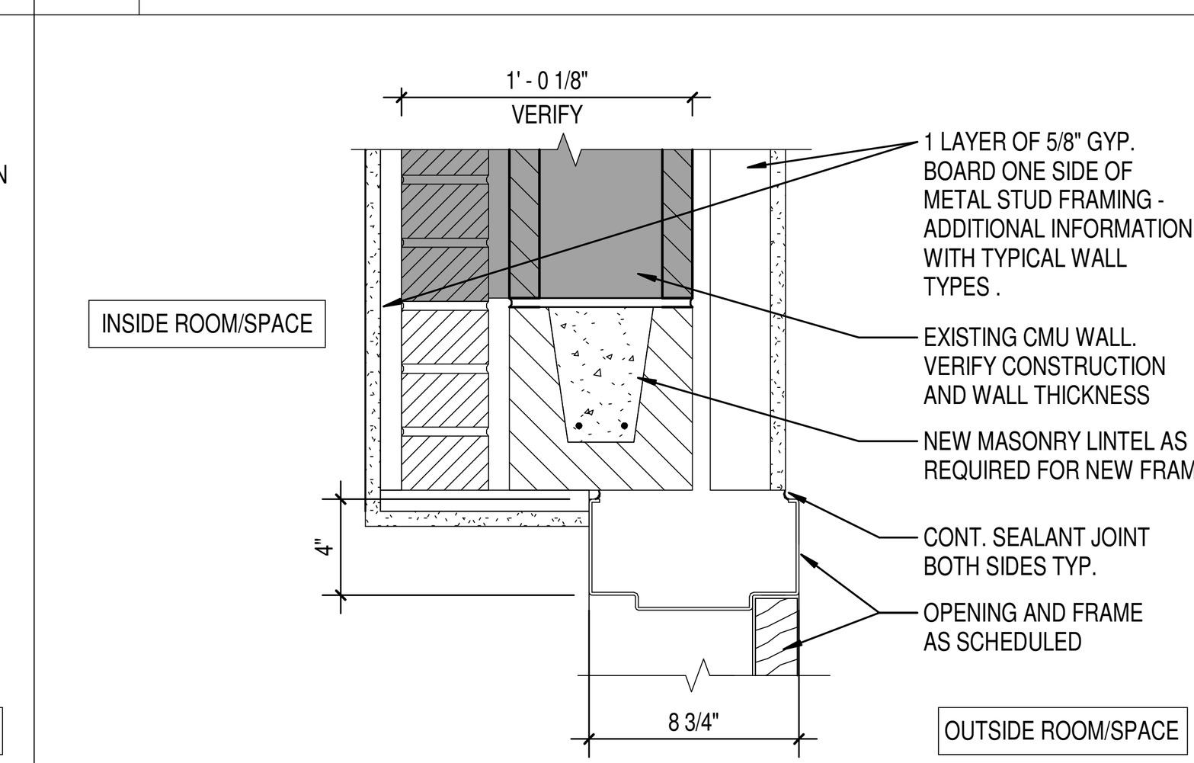
H19 HM BORROWED LITE HEAD EXIST (2 1/2"-6" MTL STUD)
SCALE: 1 - 1/2" = 1' - 0"



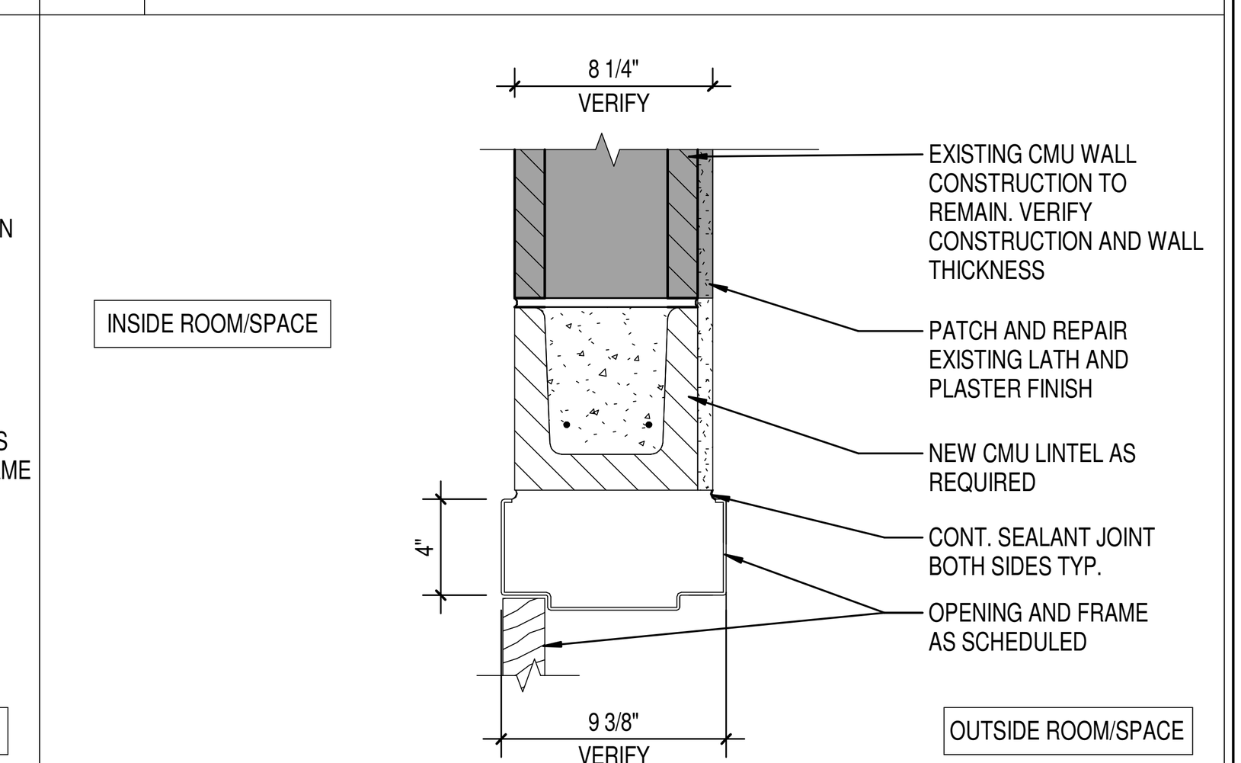
H18 HM BORROWED LIGHT EXIST 8" CMU + 4" SGFT
SCALE: 1 - 1/2" = 1' - 0"



H17 HM DOOR HEAD EXIST 8" CMU + FURRING
SCALE: 1 - 1/2" = 1' - 0"



H16 HM DOOR HEAD EXIST 4" CMU + BRICK + SGFT
SCALE: 1 - 1/2" = 1' - 0"



H15 HM DOOR JAMB EXIST CMU + GYP
SCALE: 1 - 1/2" = 1' - 0"

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REVISIONS:

2	ADDENDUM #2	03-24-21

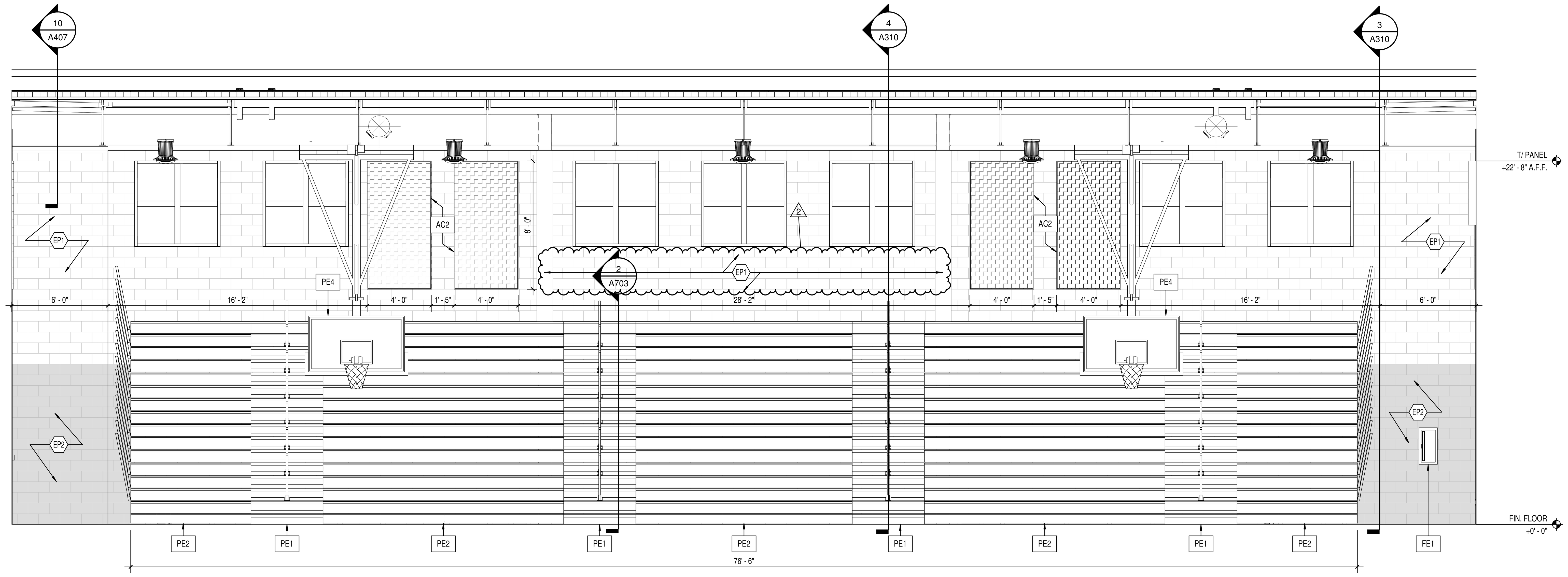
ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	LTR	CAM

DRAWING TITLE:
DOOR & WINDOW DETAILS

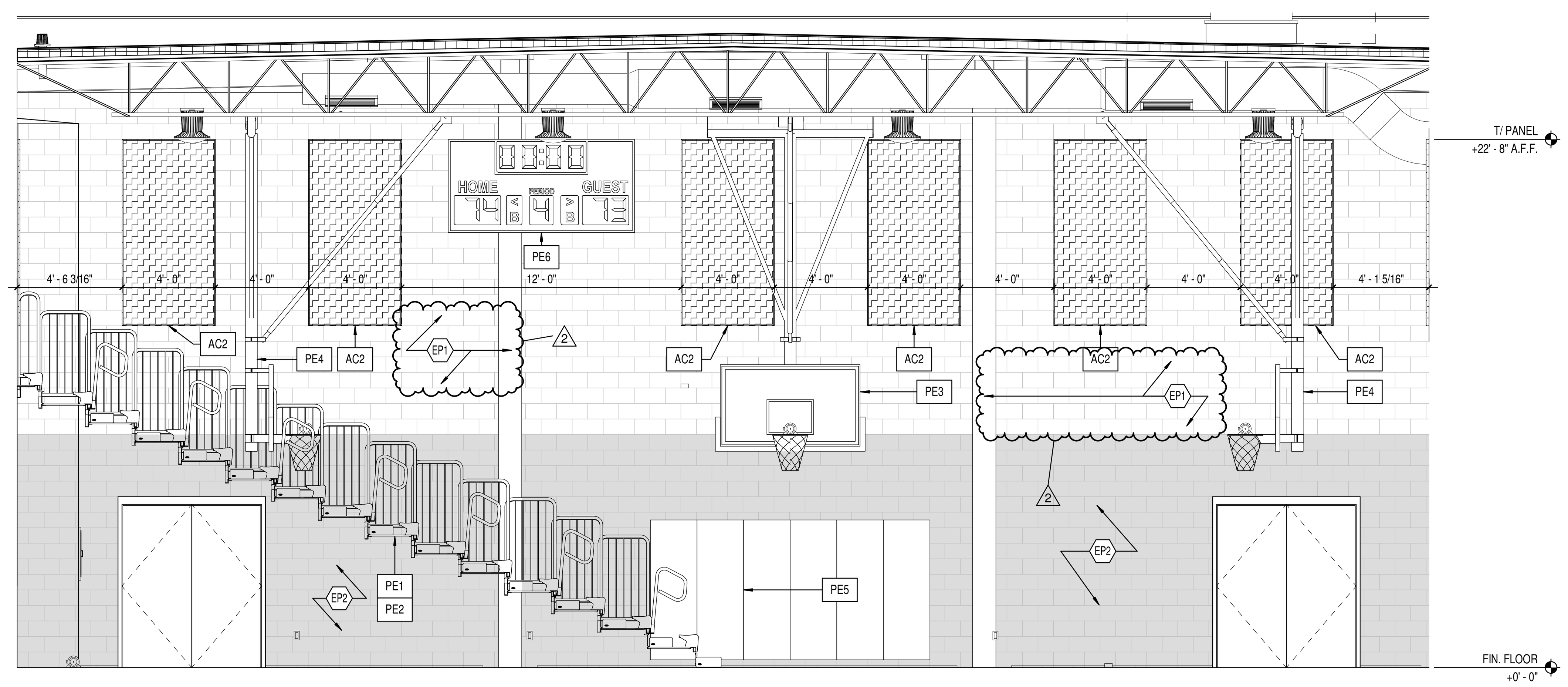
JOHN E. RIGSBEE REGISTERED No. 920019 STATE OF INDIANA ARCHITECT

DRAWING NUMBER
A503

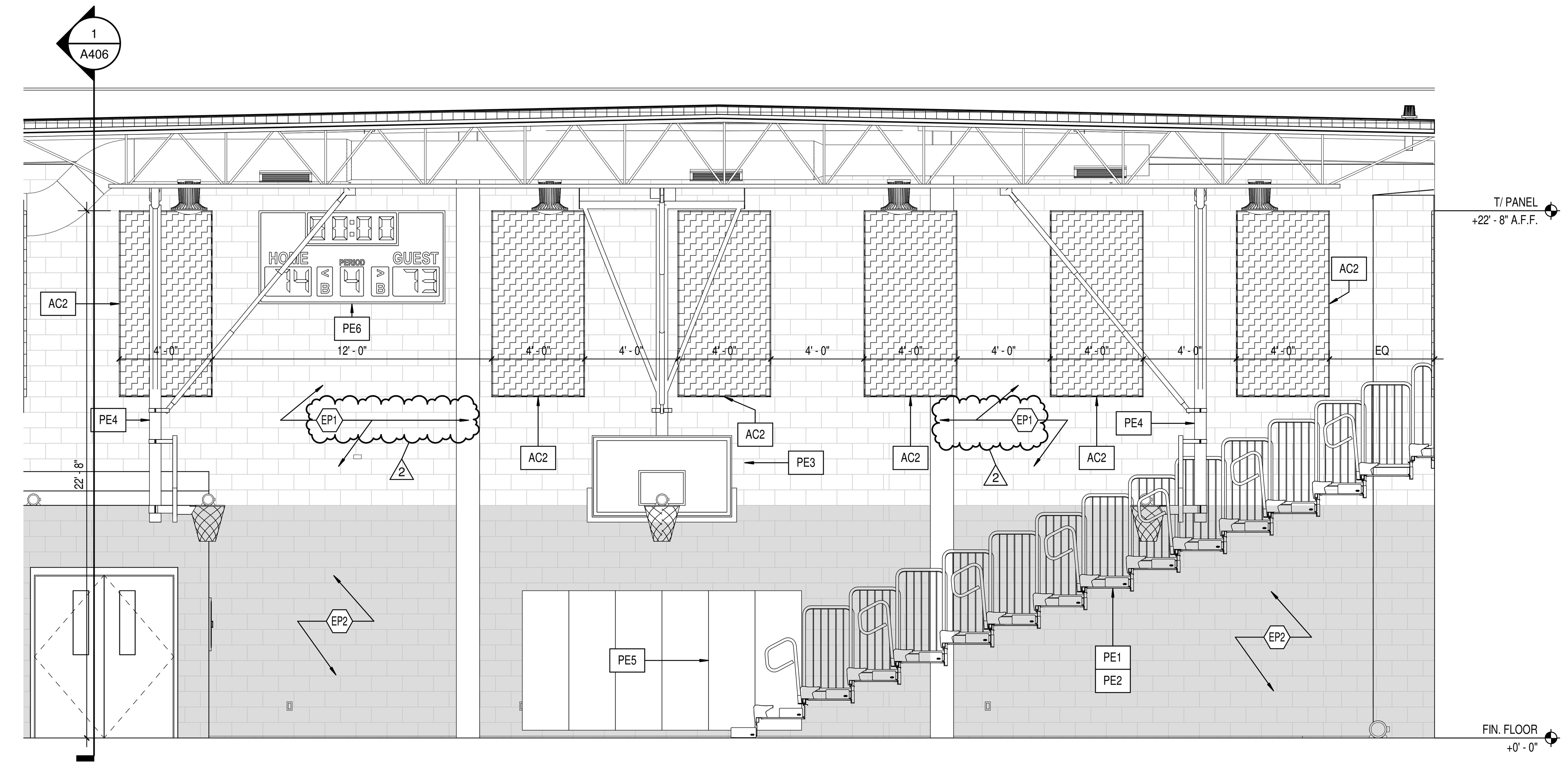
PROJECT NUMBER
2020061



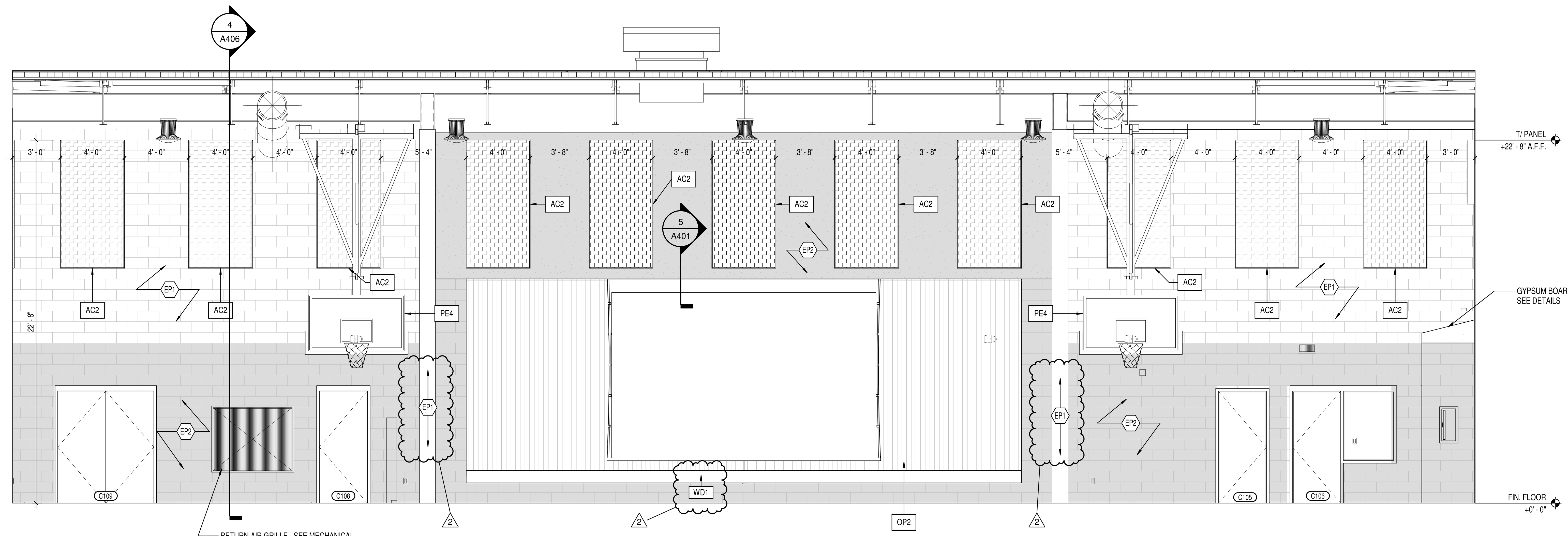
1 A602 GYM SOUTH INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



4 A602 GYM WEST INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



3 A602 GYM EAST INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



2 A602 GYM NORTH INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"

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2	ADDENDUM #2	03-24-21

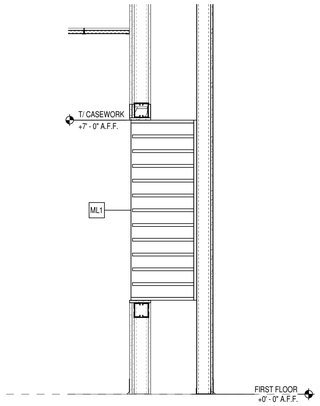
ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	LTR	CAM

DRAWING TITLE:
GYM INTERIOR ELEVATIONS AND BLEACHERS

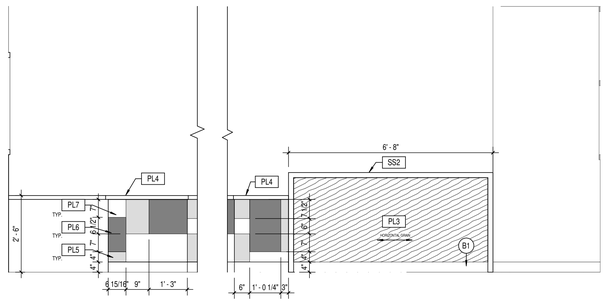
JOHN E. RIGSBEE REGISTERED No. 920019 STATE OF INDIANA ARCHITECT

DRAWING NUMBER
A602

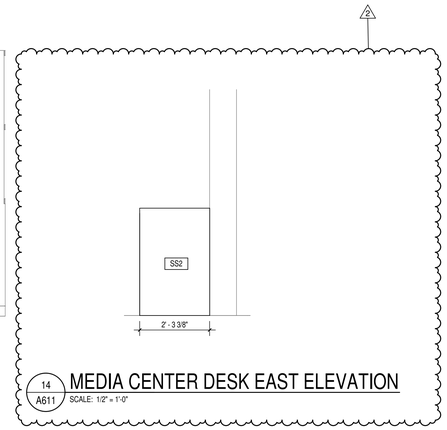
PROJECT NUMBER
2020061



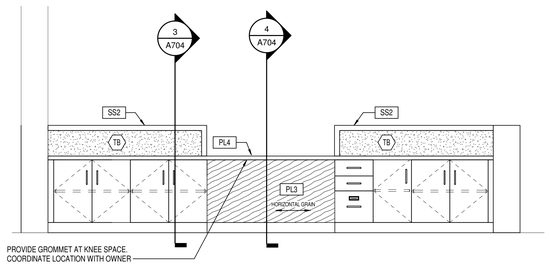
16 A611 SECTION DETAIL - MAILBOX
SCALE: 3/4" = 1'-0"



15 A611 RECEPTION DESK ELEVATION
SCALE: 1/2" = 1'-0"

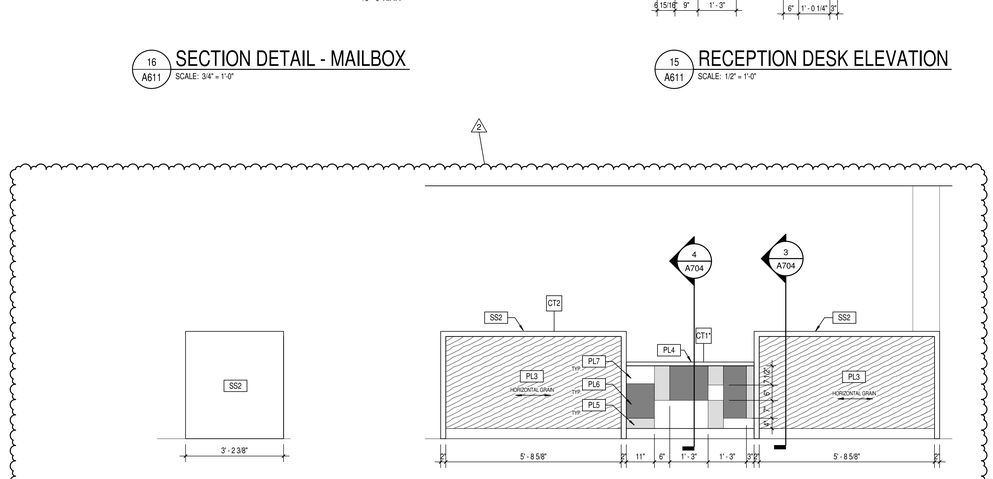


14 A611 MEDIA CENTER DESK EAST ELEVATION
SCALE: 1/2" = 1'-0"

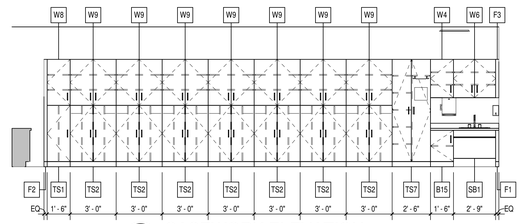


13 A611 MEDIA CENTER DESK NORTH ELEVATION
SCALE: 1/2" = 1'-0"

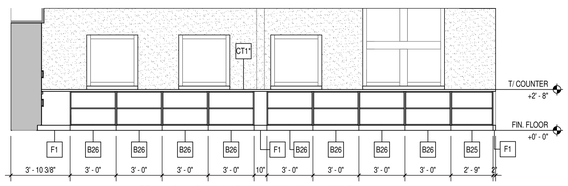
12 A611 MEDIA CENTER DESK WEST ELEVATION
SCALE: 1/2" = 1'-0"



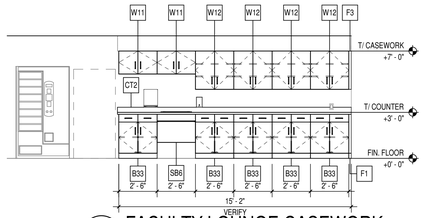
11 A611 MEDIA CENTER DESK SOUTH ELEVATION
SCALE: 1/2" = 1'-0"



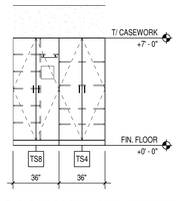
10 A611 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0" CLASSROOM A138 AND A139 CASEWORK



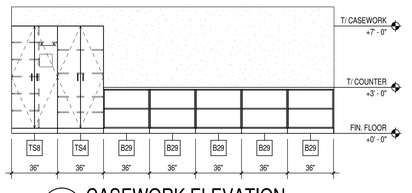
9 A611 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0" CLASSROOM A149 CASEWORK



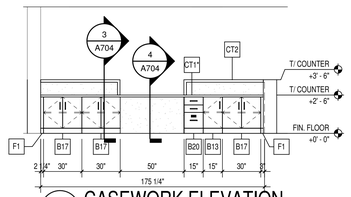
8 A611 FACULTY LOUNGE CASEWORK
SCALE: 1/4" = 1'-0"



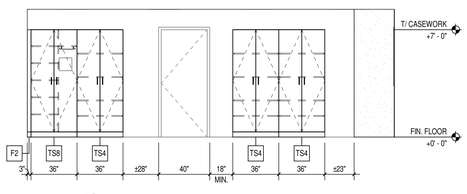
7 A611 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0" TYP. TEACHER STORAGE



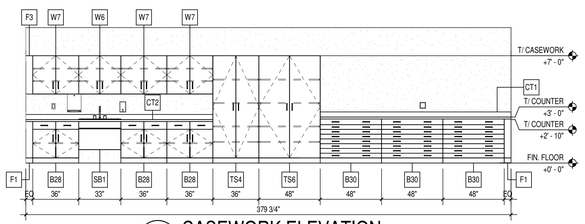
6 A611 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0" CIRCULATION DESK CASEWORK



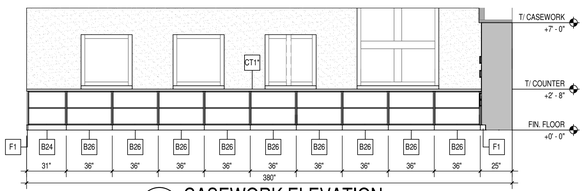
5 A611 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0" CIRCULATION DESK CASEWORK



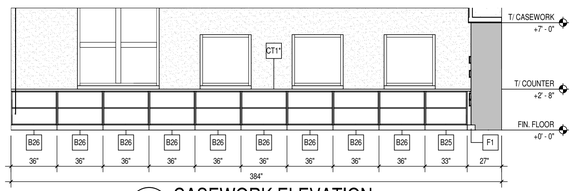
4 A611 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0" DEAN CASEWORK



3 A611 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0" TEACHER PREP UNIT C CASEWORK



2 A611 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0" CLASSROOMS C123 AND C124 CASEWORK



1 A611 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0" CLASSROOM C120 AND C121 CASEWORK

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REVISIONS:
2 ADDENDUM #2 03-24-21

ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	LTR	CAM

DRAWING TITLE:
CASEWORK ELEVATIONS

JOHN E. RIGGLE
REGISTERED
No 920019
STATE OF INDIANA
ARCHITECT

DRAWING NUMBER
A611

PROJECT NUMBER
2020061

GENERAL FINISH NOTES

1. 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 CONTRACTORS ACTUAL COLOR SUBMITTALS HAVE BEEN APPROVED, AS CALLED FOR IN THE SPECIFICATIONS. IF ANY MATERIAL IS INSTALLED BEFORE APPROVAL THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COMPLETE REPLACEMENT AND INSTALLATION OF ERRONEOUS PRODUCT.
3. WHERE DEMOLITION OCCURS SURFACE IS TO BE PROPERLY PATCHED AND REPAIRED TO MATCH SURROUNDING SURFACES BEFORE FINISH IS APPLIED.
4. CONTRACTOR RESPONSIBLE FOR PROTECTING EXISTING FINISHES TO REMAIN DURING CONSTRUCTION PROCESS. ALL SURFACES TO REMAIN SHALL BE PROPERLY CLEANED.
5. ALL SURFACES RECEIVING FINISHES SHALL BE PROPERLY PREPARED PER MANUFACTURERS SPECIFICATIONS PRIOR TO INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING CONDITIONS.
6. FOR CHANGE IN FLOOR FINISH MATERIAL TYPE, PROVIDE TRANSITION STRIP AT DOOR OPENINGS U.N.O.. G.C. IS TO SUBMIT COLOR SAMPLES OF TRANSITION STRIPS TO ARCHITECT/DESIGNER FOR APPROVAL AND SELECTION OF COLOR. TRANSITION TO BE NARROWEST PROFILE AVAILABLE THAT MEETS CODE/ADA COMPLIANCE.
7. WHEN FLOOR FINISHES TRANSITION AT A DOOR OPENING THE TRANSITION IS TO BE ON CENTER OF THE DOOR UNLESS NOTED OTHERWISE.
8. PAINT WALLS BEFORE INSTALLING MARKER BOARDS, TACKBOARDS, ETC.
9. ALL OUTSIDE GYPSUM BOARD CORNERS (ADMIN AREA) ARE TO RECEIVE 2" FLANGE SURFACE MOUNTED CORNER GUARDS. STYLE TO BE INPRO OR LISTED EQUAL AS FOUND IN THE SPECIFICATION DOCUMENT. MOUNTING HEIGHT TO START AT TOP OF BASE AND END ALIGNED TO TOP OF DOOR FRAME. COLOR TO BE SELECTED FROM MFR'S FULL RANGE.
10. ALL WALL MOUNTED GRILLES, METAL PANELS, MISC. METALS, ETC. ARE TO BE ELECTROSTATICALLY PAINTED TO MATCH THE ADJACENT WALL FINISH UNLESS OTHERWISE NOTED.
11. ALL EXISTING AND NEW HOLLOW METAL DOORS & FRAMES ARE TO BE PAINTED P3.
12. NEW WOOD DOORS ARE TO BE PLAIN SLICED MAPLE WITH CUSTOM STAIN TO MATCH ARCHITECTS CONTROL SAMPLE. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
13. NEW SOLID PLASTIC TOILET PARTITION FINISH AND COLOR TO BE SELECTED FROM MANUFACTURERS FULL RANGE.
14. ALL CLASSROOM TACKBOARDS TO BE TB1 TYPICAL. SEE FINISH LEGEND FOR COLOR AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
15. WHERE WALL TILE OCCURS, ALL OUTSIDE CORNERS AND EDGES (INCLUDING WHERE IT TRANSITIONS TO ADJACENT WALL FINISH AND BASE) AND INTERMEDIATE JOINT BETWEEN FIELD TILE AND ACCENT TILE ARE TO BE TRIMMED WITH SCHLUTER SYSTEMS. SEE SPECIFICATIONS FOR ADDITIONAL INFO. FINISH TBD FROM MFRS FULL RANGE.
16. ALL NEW AND EXISTING GWB CEILINGS AND BULKHEADS TO BE PAINTED P1 U.N.O.
17. ALL NEW AND EXISTING STEEL STAIR COMPONENTS TO BE ELECTROSTATICALLY PAINTED P3. ALUMINUM COMPONENTS TO BE EXISTING FINISH, TYPICAL.
18. NEW CUBICLE CURTAINS TO BE SELECTED FROM MANUFACTURERS FULL RANGE.
19. ACOUSTICAL DRAPERIES AND STAGE CURTAINS FOR STAGE ARE TO BE SELECTED FROM MANUFACTURERS FULL RANGE.
20. DISPLAY CASE FINISHES TO BE SELECTED FROM MANUFACTURERS FULL RANGE.
21. ALL PAINTED WALLS AND WALL APPLIED ITEMS PAINTED TO MATCH WALL ARE TO HAVE AN EGGSHELL FINISH. ALL DOOR FRAMES AND MISC. METALS ARE TO RECEIVE A SEMI-GLOSS FINISH AND ALL GWB CEILINGS AND BULKHEADS ARE TO RECEIVE A FLAT FINISH, U.N.O.
22. ALL COUNTERTOPS, WHERE NOT SUPPORTED BY CASEWORK, ARE TO BE SUPPORTED BY POWDER COATED RAKKS COUNTER SUPPORT BRACKETS WITH RADIUS ENDS, OR EQUAL. BRACKET HEIGHT, DEPTH AND SPACING AS RECOMMENDED BY MANUFACTURER AND AS IDENTIFIED IN DETAILS.
23. ACOUSTICAL WRAPPED PANEL FABRIC TO BE SELECTED FROM MANUFACTURERS FULL RANGE.
24. WALL PADS FOR GYM AND TIME OUT ROOM TO BE SELECTED FROM MANUFACTURERS FULL RANGE.
25. OPERABLE PARTITION SURFACE TO BE SELECTED FROM MFR. FULL RANGE.
26. WHERE THIN-SET EPOXY TERRAZZO PATCH IS TO INSTALL FLUSH WITH EXISTING THICK-SET TERRAZZO, PROPER FLOOR PREP / ABATEMENT IS REQUIRED. SEE FN12, FN 17, AND FN33 FOR MORE INFORMATION.

KEYED FINISH NOTES

- FN1 EXISTING FINISHES TO REMAIN, UNLESS OTHERWISE NOTED.
- FN2 FLOOR TRANSITION TO ALIGN WITH CASEWORK OR OUTSIDE CORNER AS INDICATED ON PLAN.
- FN3 EXISTING STRUCTURAL GLAZED TILE TO REMAIN ON ALL EXISTING WALLS. CAREFULLY SALVAGED SGT FROM DEMOLISHED WALLS IN THIS AREA TO BE REUSED IN THE EVENT THAT PATCHING IS NECESSARY. NEW TACK STRIPS TO BE APPLIED AT TOP OF STRUCTURAL GLAZED TILE TO CREATE A CONTINUOUS RUN THROUGHOUT THE CORRIDOR. TACK COLOR TO BE TB.
- FN4 CORRIDOR WALLS THAT DO NOT HAVE STRUCTURAL GLAZED TILE ARE TO RECEIVE PORCELAIN TILE (WT1) FROM TOP OF BASE TO APPROX 4'-10" AFF (TO MATCH THE HEIGHT OF THE STRUCTURAL GLAZED TILE). TACK STRIP TO BE INSTALLED AT TOP OF TILE. TACK COLOR TO BE TB. SUBMITTAL OF ALL CORRIDOR TACK STRIP RUNS TO BE PROVIDED FOR ARCHITECT APPROVAL PRIOR TO INSTALLATION. SEE CORRIDOR TILE ELEVATION 7/A800. REFER TO FN23-FN26 TAGS ON PLAN FOR EXTENTS AND WALL CONDITIONS.
- FN5 DIAGONAL CROSSHATCH INDICATES EXISTING CERAMIC TILE FLOOR INSERTS TO BE REMOVED AND PATCHED LEVEL WITH EXISTING SURROUNDING SLAB. PREP FLOOR TO RECIEVE NEW CARPET.
- FN6 EXISTING TERRAZZO FLOOR TO GO THROUGH A COMPLETE ROUGH GRIND PROCESS, REMOVING STAINS AS POSSIBLE, AND VITRIFICATION. ONCE ROUGH GRIND IS COMPLETE POLISH WITH A 120 GRIT DIAMOND, NEXT A 200 GRIT, 400 GRIT DIAMOND AND FINALLY A 800 GRIT DIAMOND BEFORE THE VITRIFICATION PROCESS.
- FN7 LVT IN FRONT OF SINKS TO BE INSTALLED WITH EPOXY ADHESIVE. AREA TO EXTEND 4'-0" W (FROM CENTER OF SINK) AND EXTEND 2'-6" D FROM FRONT EDGE OF CABINETRY.
- FN8 TYPICAL GIRLS RESTROOM TILE PATTERN. SEE ELEVATION 1/A800.
- FN9 TYPICAL BOYS RESTROOM TILE PATTERN. SEE ELEVATIONS 3/A800.
- FN10 TYPICAL UNISEX RESTROOM TILE PATTERN. SEE ELEVATION 5/800.
- FN11 CARPET PATTERN AS INDICATED BY THIS FINISH KEY NOTE ON A800 SERIES PLANS. PATTERN IS A RANDOM INSTALL OF CARPETS C1 (APPROX 70% OF PATTERN), C2 (APPROX 25% OF PATTERN), AND C3 (APPROX 5% OF PATTERN). PATTERN TO BE INSTALLED RANDOM WITH MANUFACTURER'S RECOMMENDED RELEASABLE ADHESIVE. SUBMITTAL OF PATTERN (INCLUDING SEAMING DIAGRAM) TO BE PROVIDED FOR APPROVAL PRIOR TO ORDER.
- FN12 TERRAZZO PATCH WHERE WALL AND FLOOR DEMO TAKES PLACE AND AS INDICATED BY SOLID GRAY HATCH. EXTEND PATCH BACK TO NEAREST DIVIDER STRIP. GRIND EXISTING CONCRETE SLABS AS NEEDED TO PREP FOR TERRAZZO PATCHING. TERRAZZO PATCH TO MATCH EXISTING ADJACENT TERRAZZO. MATCH COMPLETE THE EPOXY FOMULA BASE, AGGREGATES, AND VITRIFICATION, AS WELL AS THE EPOXY DIVIDER STRIPS AND LAYOUT. A SUBMITTAL OF EACH TERRAZZO MIX BEING PATCHED TO BE PROVIDED FOR MATCH REVIEW ON SITE.
- FN13 NEW WALL OR WALL PATCH TO MATCH EXISTING ADJACENT WALL. MATCH TO INCLUDE PAINT COLOR, QUALITY AND FINISH AND BASE TO MATCH STYLE, HEIGHT AND COLOR.
- FN14 FRONT DESK AND MEDIA CENTER DESK WITH WATERFALL TRANSACTION COUNTER AND DECORATIVE PLASTIC LAMINATE PANELS. SEE ELEVATIONS 11-14/A611 & 15/A611
- FN15 CARPET PATTERN AS INDICATED BY THIS FINISH KEY NOTE ON A800 SERIES PLANS. PATTERN IS A RANDOM INSTALL OF CARPETS C1 (APPROX 70% OF PATTERN) AND C2 (APPROX 30% OF PATTERN). PATTERN TO BE INSTALLED RANDOM WITH MANUFACTURER'S RECOMMENDED RELEASABLE ADHESIVE. SUBMITTAL OF PATTERN (INCLUDING SEAMING DIAGRAM) TO BE PROVIDED FOR APPROVAL PRIOR TO ORDER.
- FN16 DIAGONAL DOWN HATCH INDICATES THE EXTENT OF THE FOLLOWING PATTERN. PATTERN IS A RANDOM INSTALL OF CARPETS C2 (APPROX 50% OF PATTERN) AND C3 (APPROX 50% OF PATTERN). DO NOT CREATE CHECKERBOARD PATTERN. PATTERN TO BE INSTALLED RANDOM WITH MANUFACTURER'S RECOMMENDED RELEASABLE ADHESIVE. SUBMITTAL OF PATTERN (INCLUDING SEAMING DIAGRAM) TO BE PROVIDED FOR APPROVAL PRIOR TO ORDER.
- FN17 SOLID BLACK HATCH INDICATES ALL EXISTING CERAMIC TILE FLOOR INSERTS TO BE REMOVED AND PATCHED WITH TERRAZZO. TERRAZZO PATCH TO BE TZ2. GRIND CONCRETE SLAB AS NEEDED TO PREP FOR TERRAZZO PATCH.
- FN18 WALL TO BE PATCHED WITH SALVAGED STRUCTUAL GLAZED TILE QUANTITY AVAILABLE. IF WALL CAN NOT BE PATCHED WITH SALVAGED SGT, WALL TO BE PAINTED EP3 FROM FLOOR TO HEIGHT OF ADJACENT SGT AND EP1 FROM TOP OF ADJACENT SGT TO CEILING.
- FN19 TARKETTE/JOHNSONITE SLIM LINE NOSING ON EDGE. SUBMITTAL OF EDGE CONDITION REQUIRED FOR REVIEW.
- FN20 ALL MOP SINK LOCATIONS TO RECEIVE FRP. LENGTH AS NECESSARY, MIN. OF 2'-0" BEYOND EXTENTS 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.
- FN21 WATER FOUNTAIN TILE PATTERN, SEE 9/A800.
- FN22 NO FINISHES TO BE APPLIED TO BRICK WALL.
- FN23 CORRIDOR TILE WAINSCOT OVER EXISTING WALL WHERE VINYL WALL COVERING HAS BEEN REMOVED. SEE 10/A800, TILE DETAIL 1. REFER TO FN4 FOR ADDITONAL TILE WAINSCOT INFORMATION.
- FN24 CORRIDOR TILE WAINSCOT OVER EXISTING WALL WHERE VINYL WALL COVERING HAS BEEN REMOVED AND TACKBOARDS INSTALLED. SEE 11/A800, TILE DETAIL 2. REFER TO FN4 FOR ADDITONAL TILE WAINSCOT INFORMATION.
- FN25 CORRIDOR TILE WAINSCOT OVER EXISTING WALL OR NEW WALL TYPE AS NOTED ON A200 SERIES. SEE 12/A800, TILE DETAIL 3. REFER TO FN4 FOR ADDITONAL TILE WAINSCOT INFORMATION.
- FN26 CORRIDOR TILE WAINSCOT OVER EXISTING WALL OR NEW WALL TYPE AS NOTED ON A200 SERIES WHERE TACKBOARDS INSTALLED. SEE 13/A800, TILE DETAIL 4. REFER TO FN4 FOR ADDITONAL TILE WAINSCOT INFORMATION.
- FN27 CAFETERIA WALLS AND COLUMNS AND LOBBY WALLS TO RECEIVE PORCELAIN TILE (WT1) FROM TOP OF BASE TO APPROX 4'-10" AFF (TO MATCH THE HEIGHT OF THE STRUCTURAL GLAZED TILE). WALL TILE CAPPED WITH SCHLUTER JOLLY TRIM. SEE CAFETERIA TILE ELEVATION 8/A800. REFER TO FN23-FN26 FOR WALL CONDITIONS.
- FN28 ACCENT PAINT TO BE APPLIED TO EVERY SIDE OF COLUMN.
- FN29 PROPERLY PREP WALL APPLIED 2"x2" TILES TO RECIEVE PAINT.
- FN30 ABOVE BULKHEAD TO BE PAINTED P1.
- FN31 CARPET INSTALLED ON CIRCULAR STAIRS TO BE CUT INTO WEDGE SHAPES TO REDUCE THE AMMOUNT OF SMALL SLIVERS OF TILE. SUBMITTAL OF PATTERN (INCLUDING SEAMING DIAGRAM) TO BE PROVIDED FOR APPROVAL PRIOR TO ORDER. INSTALLER TO PROVIDE MOCKUP OR SMALL PORTION OF INSTALL FOR ON SITE REVIEW PRIOR TO FULL INSTALL. SEE 14/A800 FOR DETAIL
- FN32 WOOD TRIM TO BE PAINTED P3
- FN33 GREY DIAGONAL UP HATCH NOTES NEW CORRIDOR TO RECIEVE TERRAZZO. TERRAZZO TO MATCH EXISTING ADJACENT TERRAZZO AS NOTED BY FINISH TAGS TZ3 OR TZ4. MATCH COMPLETE THE EPOXY FOMULA BASE, AGGREGATES, AND VITRIFICATION, AS WELL AS THE EPOXY DIVIDER STRIPS AND LAYOUT. A SUBMITTAL OF EACH TERRAZZO MIX BEING PATCHED TO BE PROVIDED FOR MATCH REVIEW ON SITE.

FINISH LEGEND

FLOOR FINISHES

ETR EXISTING TO REMAIN

WOC1 WALK-OFF CARPET
MFR: MILLIKEN
STYLE: OBEX TILE, CUT/FIZZ
COLOR: FZC27-173 GREY
SIZE: 50CM X 50 CM TILE
INSTALL: MONOLITHIC
LOCATION: VESTIBULES

C1 CARPET TILE
MFR: MILLIKEN
STYLE: MORAINE / EXPLORER
COLOR: EXR13-6 ELEVATE
SIZE: 50CM X 50CM TILE
INSTALL: RANDOM, SEE FN11, FN15, & FN16
LOCATION: PER PLAN

C2 CARPET TILE
MFR: MILLIKEN
STYLE: MORAINE / EXPLORER (WITH ACCENT)
COLOR: EXP109-13-6 ELEVATE WITH BURGUNDY
SIZE: 50CM X 50CM TILE
INSTALL: RANDOM, SEE FN11, FN15, & FN16
LOCATION: PER PLAN

C3 CARPET TILE
MFR: MILLIKEN
STYLE: MORAINE / EXPLORER
COLOR: EXT82-109 RIM
SIZE: 50CM X 50CM TILE
INSTALL: RANDOM, SEE FN11, FN15, & FN16
LOCATION: PER PLAN

LVT1 LUXURY VINYL TILE
MFR: MILLIKEN
STYLE: WOOD/CHERRY
COLOR: CHE17
SIZE: 7"x48"
INSTALL: ASHLAR
LOCATION: PER PLAN

LVT2 LUXURY VINYL TILE
MFR: MILLIKEN
STYLE: ABSTRACT / TWIST
COLOR: TWS218-6
SIZE: 18"x18"
INSTALL: ASHLAR
LOCATION: CLASSROOMS, STORAGE

EPX1 EPOXY RESINOUS FLOORING
MFR: TNEMEC
STYLE: FULL REJECTION, DOUBLE BROADCAST, 1/8" FLAKES
COLOR: FB-801 ROCKY RIDGE

SC SEALED CONCRETE

TZ1 TERRAZZO (CAFETERIA A118 MATCH)
MFR: GENERAL POLYMERS
STYLE: THIN-SET VITRIFIED
FORMULA: TO MATCH EXISTING
CHIPS: TO MATCH EXISTING CHIP COLORS, SIZES, & PERCENTAGES
TERROXY: TO MATCH EXISTING
FINISH: VITRIFIED
LOCATION: CAFETERIA A118 PATCH
NOTE: ON SITE REVIEW FOR APPROVAL.

TZ2 TERRAZZO (BLACK ACCENT)
MFR: GENERAL POLYMERS
STYLE: THIN-SET VITRIFIED
FORMULA: BLACK ACCENT
CHIPS: 80% RAVEN BLACK #1
20% BLACK BEAUTY #1
TERROXY: JET BLACK 78A-1A
FINISH: VITRIFIED
LOCATION: PER PLANS, SEE FN17

TZ3 TERRAZZO (CORRIDORS A165, B111 & C131 MATCH)
MFR: GENERAL POLYMERS
STYLE: THIN-SET VITRIFIED
FORMULA: TO MATCH EXISTING
CHIPS: TO MATCH EXISTING CHIP COLORS, SIZES, & PERCENTAGES
TERROXY: TO MATCH EXISTING
FINISH: VITRIFIED
LOCATION: CORRIDORS C119 & C118 AND PER PLANS.
NOTE: VERIFY TERRAZZO IN NOTED LOCATIONS ARE IDENTICAL. ON SITE REVIEW FOR APPROVAL.

TZ4 TERRAZZO (CORRIDORS A155 & C100 MATCH)
MFR: GENERAL POLYMERS
STYLE: THIN-SET VITRIFIED
FORMULA: TO MATCH EXISTING
CHIPS: TO MATCH EXISTING CHIP COLORS, SIZES, & PERCENTAGES
TERROXY: TO MATCH EXISTING
FINISH: VITRIFIED
LOCATION: CORRIDOR C112 & PER PLANS.
NOTE: ON SITE REVIEW FOR APPROVAL.

RT1 RUBBER TREAD/RISER
MFR: TARKETT/JOHNSONITE
TREADS: BLACK RUBBER INSERT
PATTERN: HAMMERED
COLOR: 21 STORM CLOUD
LOCATION: PER PLAN

RF1 RUBBER TILE
MFR: TARKETT/JOHNSONITE
PATTERN: HAMMERED
COLOR: 21 STORM CLOUD
LOCATION: PER PLAN

AF1 ATHLETIC FLOORING
MFR: CONNOR SPORTS
STYLE: ELASTIPLUS
THICKNESS: 6MM (BASE MAT 4MM + 2MM)
COLOR: SILVER MINE #7001
LOCATION: GYM FLOOR

WALL BASE

B1 RUBBER BASE
MFR: TARKETT/JOHNSONITE
STYLE: 4" COVE
COLOR: 71 STORM CLOUD

B2 INTEGRAL EPOXY COVE BASE
MFR: TENEMEC
STYLE: 4" COVE
COLOR: TO MATCH EPX1

WALL FINISHES

P1 PAINT
MFR: SHERWIN WILLIAMS
COLOR: SW6070 HERON PLUME
LOCATION: GENERAL PAINT

P2 PAINT
MFR: SHERWIN WILLIAMS
COLOR: SW7043 WORLDLY GRAY
LOCATION: OFFICES

P3 PAINT
MFR: SHERWIN WILLIAMS
COLOR: SW2848 ROYCROFT PEWTER
LOCATION: DOOR FRAMES & STAGE

EP1 EPOXY PAINT
MFR: SAME AS P1
COLOR: SAME AS P1
LOCATION: CORRIDORS, GYM, & RESTROOMS

EP2 EPOXY PAINT
MFR: SAME AS P2
COLOR: SAME AS P2
LOCATION: GYM

EP3 EPOXY PAINT
MFR: SHERWIN WILLIAMS
COLOR: SW 9111 ANTLER VELVET
LOCATION: CORRIDORS (TO MATCH SGT)
NOTE: ON SITE REVIEW FOR APPROVAL

EP4 EPOXY PAINT
MFR: SHERWIN WILLIAMS
COLOR: TBD
LOCATION: CAFETERIA COLUMNS

WC1 WALLCOVERING
MFR: LEVEL
STYLE: LINDSEY
COLOR: METRO
SUBSTRATE: TYPE II VINYL STIPPLE/WALLMAX COATING
SIZE: CUSTOM FIT
LOCATION: CAFETERIA

WT1 WALL TILE
MFR: ATLAS CONCORDE
STYLE: SIGN
COLOR: WHITE
SIZE: 12" X 24"
INSTALL: HORIZONTAL STACK BOND, FULL TILE START AT TOP OF BASE
LOCATION: CORRIDORS, RESTROOMS, & CAFETERIA

WT2 WALL TILE
MFR: DALTILE
STYLE: NATURAL HUES
COLOR: QH14 KIRSH
SIZE: 3" X 6"
INSTALL: SEE SHEET A800
LOCATION: RESTROOMS

WT3 WALL TILE
MFR: DALTILE
STYLE: NATURAL HUES
COLOR: QH35 PEPPER
SIZE: 3" X 6"
INSTALL: SEE SHEET A800
LOCATION: RESTROOMS

TB TACKBOARD SURFACE
MFR: FORBO
STYLE: BULLETIN BOARD, WALL APPLIED
SIZE: 48"W X 1/4" THICK X 91' ROLL
COLOR: POTATO SKIN
LOCATION: CLASSROOMS, CORRIDORS

CASEWORK AND COUNTERTOPS

PL1 PLASTIC LAMINATE
MFR: WILSONART
COLOR: 4886-38 PEARL SOAPSTONE
FINISH: FINE VELVET
LOCATION: COUNTERTOPS (WITH PL2)

PL2 PLASTIC LAMINATE
MFR: FORMICA
COLOR: 9285-58 WHITE TWILL
FINISH: MATTE
LOCATION: CLASSROOM CASEWORK

PL3 PLASTIC LAMINATE
MFR: LAMINART
COLOR: 3124-E CLASSIC CHERRY
FINISH: VELLUM
LOCATION: FRONT DESK/MISC CASEWORK

PL4 PLASTIC LAMINATE
MFR: FORMICA
COLOR: 9512 LAYERED WHITE SAND
FINISH: SCOVATO
LOCATION: COUNTERTOPS (WITH PL3)

PL5 PLASTIC LAMINATE
MFR: NEVAMAR
COLOR: S-1049T CARMEN RED
FINISH: ARP
LOCATION: FRONT DESK ACCENT

PL6 PLASTIC LAMINATE
MFR: NEVAMAR
COLOR: S-6001T BLACK
FINISH: ARP
LOCATION: FRONT DESK ACCENT

PL7 PLASTIC LAMINATE
MFR: NEVAMAR
COLOR: S-2069T BETHANY BEIGE
FINISH: ARP
LOCATION: FRONT DESK ACCENT

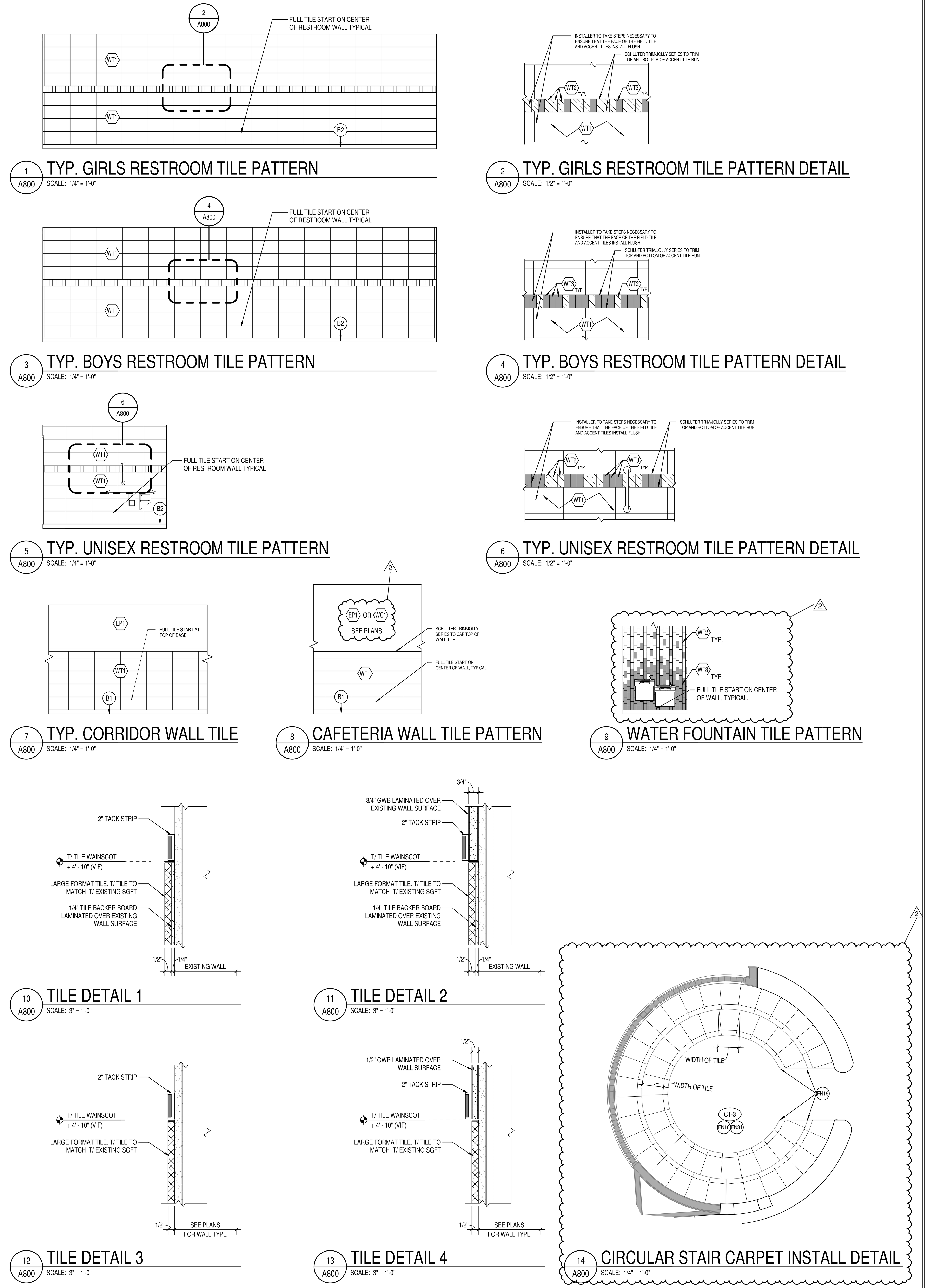
PL8 PLASTIC LAMINATE
MFR: TO MATCH EXISTING
COLOR: TO MATCH EXISTING
FINISH: TO MATCH EXITING
LOCATION: KINDERGARTEN

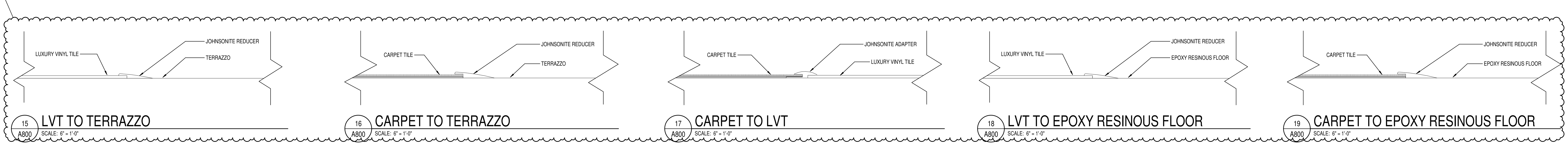
SS1 SOLID SURFACE
MFR: CORIAN
COLOR: ASH AGGREGATE
LOCATION: SINK COUNTERS (WITH PL2)

SS2 SOLID SURFACE
MFR: CORIAN
COLOR: ARROWROOT
LOCATION: FRONT DESK/SINK COUNTERS (WITH PL3)/MISC

MISCELLANEOUS

WD1 WOOD CAP
MFR: SEE SPECS
COLOR: TO MATCH ARCHITECTS SAMPLE, SEE SPECS
LOCATION: STAGE





CSO
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PROJECT:
MSD OF WARREN TOWNSHIP
PLEASANT RUN ELEMENTARY SCHOOL
RENOVATION & ADDITION
1800 N. FRANKLIN RD. INDIANAPOLIS, IN 46219

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

REVISIONS:

2	ADDENDUM #2	03-24-21

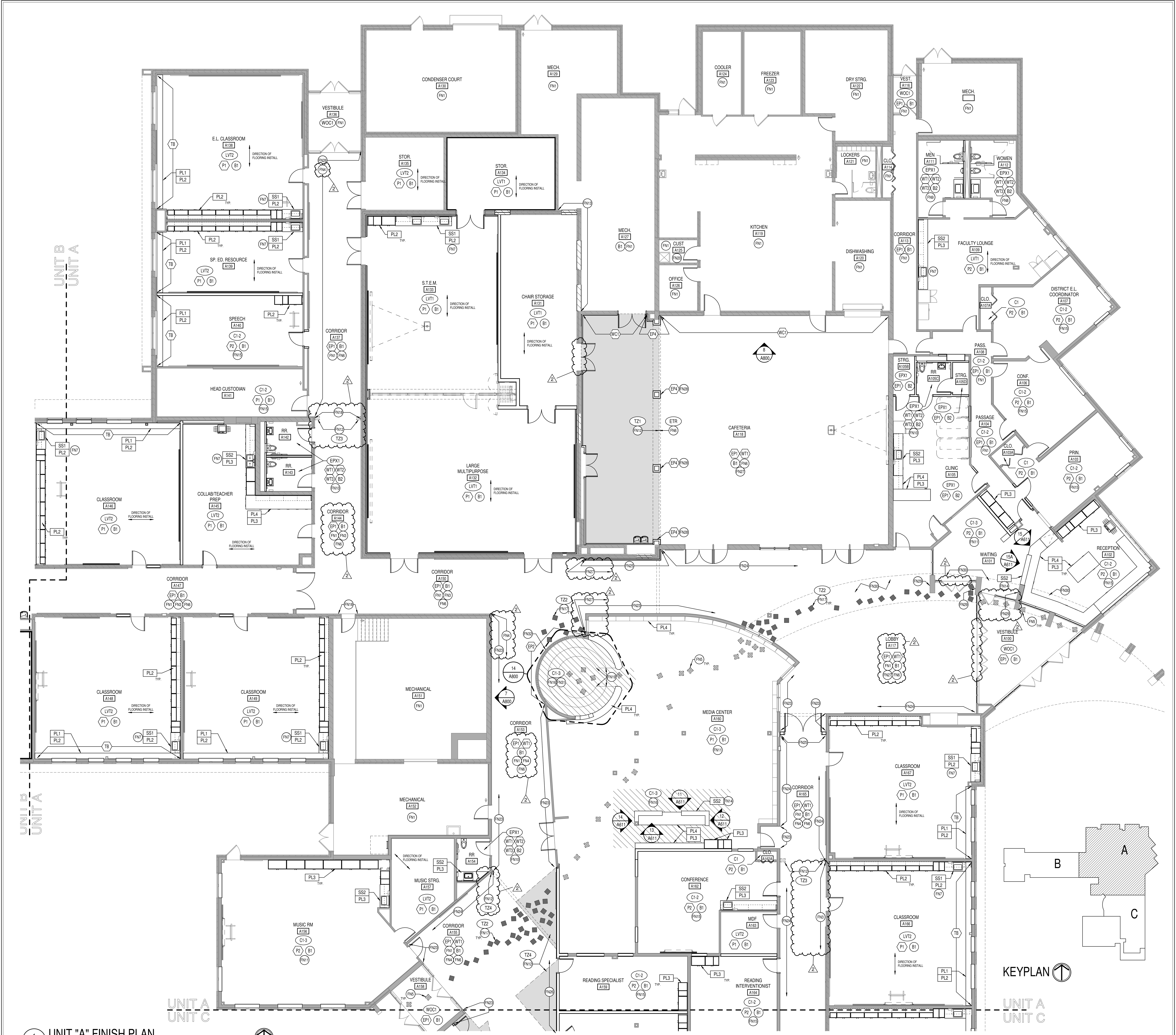
ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	MEB	JSK

DRAWING TITLE:
FINISH LEGEND AND INFORMATION

JOHN E. RIGSBEE REGISTERED No. 920019 STATE OF INDIANA ARCHITECT

DRAWING NUMBER
A800

PROJECT NUMBER
2020061



1 A801A UNIT "A" FINISH PLAN
SCALE: 1/8" = 1'-0"

GENERAL FINISH NOTES

1. 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 CONTRACTORS ACTUAL COLOR SUBMITTALS HAVE BEEN APPROVED, AS CALLED FOR IN THE SPECIFICATIONS. IF ANY MATERIAL IS INSTALLED BEFORE APPROVAL THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COMPLETE REPLACEMENT AND INSTALLATION OF ERRONEOUS PRODUCT.
3. WHERE DEMOLITION OCCURS SURFACE IS TO BE PROPERLY PATCHED AND REPAIRED TO MATCH SURROUNDING SURFACES BEFORE FINISH IS APPLIED.
4. CONTRACTOR RESPONSIBLE FOR PROTECTING EXISTING FINISHES TO REMAIN DURING CONSTRUCTION PROCESS. ALL SURFACES TO REMAIN SHALL BE PROPERLY CLEANED.
5. ALL SURFACES RECEIVING FINISHES SHALL BE PROPERLY PREPARED PER MANUFACTURERS SPECIFICATIONS PRIOR TO INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING CONDITIONS.
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7. WHEN FLOOR FINISHES TRANSITION AT A DOOR OPENING THE TRANSITION IS TO BE ON CENTER OF THE DOOR UNLESS NOTED OTHERWISE.
8. PAINT WALLS BEFORE INSTALLING MARKER BOARDS, TACKBOARDS, ETC.
9. ALL OUTSIDE GYPSUM BOARD CORNERS (ADMIN AREA) ARE TO RECEIVE 2" FLANGE SURFACE MOUNTED CORNER GUARDS. STYLE TO BE INPRO OR LISTED EQUAL AS FOUND IN THE SPECIFICATION DOCUMENT. MOUNTING HEIGHT TO START AT TOP OF BASE AND END ALIGNED TO TOP OF DOOR FRAME. COLOR TO BE SELECTED FROM MFR'S FULL RANGE.
10. ALL WALL MOUNTED GRILLES, METAL PANELS, MISC. METALS, ETC. ARE TO BE ELECTROSTATICALLY PAINTED TO MATCH THE ADJACENT WALL FINISH UNLESS OTHERWISE NOTED.
11. ALL EXISTING AND NEW HOLLOW METAL DOORS & FRAMES ARE TO BE PAINTED P3.
12. NEW WOOD DOORS ARE TO BE PLAIN SLICED MAPLE WITH CUSTOM STAIN TO MATCH ARCHITECTS CONTROL SAMPLE. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
13. NEW SOLID PLASTIC TOILET PARTITION FINISH AND COLOR TO BE SELECTED FROM MANUFACTURERS FULL RANGE.
14. ALL CLASSROOM TACKBOARDS TO BE TB1 TYPICAL. SEE FINISH LEGEND FOR COLOR AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
15. WHERE WALL TILE OCCURS, ALL OUTSIDE CORNERS AND EDGES (INCLUDING WHERE IT TRANSITIONS TO ADJACENT WALL FINISH AND BASE) AND INTERMEDIATE JOINT BETWEEN FIELD TILE AND ACCENT TILE ARE TO BE TRIMMED WITH SCHLUTER SYSTEMS. SEE SPECIFICATIONS FOR ADDITIONAL INFO. FINISH TBD FROM MFRS FULL RANGE.
16. ALL NEW AND EXISTING GWB CEILINGS AND BULKHEADS TO BE PAINTED P1 U.N.O.
17. ALL NEW AND EXISTING STEEL STAIR COMPONENTS TO BE ELECTROSTATICALLY PAINTED P3. ALUMINUM COMPONENTS TO BE EXISTING FINISH, TYPICAL.
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20. DISPLAY CASE FINISHES TO BE SELECTED FROM MANUFACTURERS FULL RANGE.
21. ALL PAINTED WALLS AND WALL APPLIED ITEMS PAINTED TO MATCH WALL ARE TO HAVE AN EGGSHELL FINISH. ALL DOOR FRAMES AND MISC. METALS ARE TO RECEIVE A SEMI-GLOSS FINISH AND ALL GWB CEILINGS AND BULKHEADS ARE TO RECEIVE A FLAT FINISH, U.N.O.
22. ALL COUNTERTOPS, WHERE NOT SUPPORTED BY CASEWORK, ARE TO BE SUPPORTED BY POWDER COATED RAKKS COUNTER SUPPORT BRACKETS WITH RADIUS ENDS, OR EQUAL. BRACKET HEIGHT, DEPTH AND SPACING AS RECOMMENDED BY MANUFACTURER AND AS IDENTIFIED IN DETAILS.
23. ACOUSTICAL WRAPPED PANEL FABRIC TO BE SELECTED FROM MANUFACTURERS FULL RANGE.
24. WALL PADS FOR GYM AND TIME OUT ROOM TO BE SELECTED FROM MANUFACTURERS FULL RANGE.
25. OPERABLE PARTITION SURFACE TO BE SELECTED FROM MFR. FULL RANGE.
26. WHERE THIN-SET EPOXY TERRAZZO PATCH IS TO INSTALL FLUSH WITH EXISTING THICK-SET TERRAZZO, PROPER FLOOR PREP / ABATEMENT IS REQUIRED. SEE FN12, FN 17, AND FN33 FOR MORE INFORMATION.

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FN1 EXISTING FINISHES TO REMAIN, UNLESS OTHERWISE NOTED.

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FN3 EXISTING STRUCTURAL GLAZED TILE TO REMAIN ON ALL EXISTING WALLS. CAREFULLY SALVAGED SGT FROM DEMOLISHED WALLS IN THIS AREA TO BE REUSED IN THE EVENT THAT PATCHING IS NECESSARY. NEW TACK STRIPS TO BE APPLIED AT TOP OF STRUCTURAL GLAZED TILE TO CREATE A CONTINUOUS RUN THROUGHOUT THE CORRIDOR. TACK COLOR TO BE TB.

FN4 CORRIDOR WALLS THAT DO NOT HAVE STRUCTURAL GLAZED TILE ARE TO RECEIVE PORCELAIN TILE (WT1) FROM TOP OF BASE TO APPROX 4'-10" AFF (TO MATCH THE HEIGHT OF THE STRUCTURAL GLAZED TILE). TACK STRIP TO BE INSTALLED AT TOP OF TILE. TACK COLOR TO BE TB. SUBMITTAL OF ALL CORRIDOR TACK STRIP RUNS TO BE PROVIDED FOR ARCHITECT APPROVAL PRIOR TO INSTALLATION. SEE CORRIDOR TILE ELEVATION 7/A800. REFER TO FN23-FN26 TAGS ON PLAN FOR EXTENTS AND WALL CONDITIONS.

FN5 DIAGONAL CROSSHATCH INDICATES EXISTING CERAMIC TILE FLOOR INSERTS TO BE REMOVED AND PATCHED LEVEL WITH EXISTING SURROUNDING SLAB. PREP FLOOR TO RECIEVE NEW CARPET.

FN6 EXISTING TERRAZZO FLOOR TO GO THROUGH A COMPLETE ROUGH GRIND PROCESS, REMOVING STAINS AS POSSIBLE, AND VITRIFICATION. ONCE ROUGH GRIND IS COMPLETE POLISH WITH A 120 GRIT DIAMOND, NEXT A 200 GRIT, 400 GRIT DIAMOND AND FINALLY A 800 GRIT DIAMOND BEFORE THE VITRIFICATION PROCESS.

FN7 LVT IN FRONT OF SINKS TO BE INSTALLED WITH EPOXY ADHESIVE. AREA TO EXTEND 4'-0" W (FROM CENTER OF SINK) AND EXTEND 2'-6" D FROM FRONT EDGE OF CABINETRY.

FN8 TYPICAL GIRLS RESTROOM TILE PATTERN. SEE ELEVATION 1/A800.

FN9 TYPICAL BOYS RESTROOM TILE PATTERN. SEE ELEVATIONS 3/A800.

FN10 TYPICAL UNISEX RESTROOM TILE PATTERN. SEE ELEVATION 5/800.

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FN12 TERRAZZO PATCH WHERE WALL AND FLOOR DEMO TAKES PLACE AND AS INDICATED BY SOLID GRAY HATCH. EXTEND PATCH BACK TO NEAREST DIVIDER STRIP. GRIND EXISTING CONCRETE SLABS AS NEEDED TO PREP FOR TERRAZZO PATCHING. TERRAZZO PATCH TO MATCH EXISTING ADJACENT TERRAZZO. MATCH COMPLETE THE EPOXY FOMULA BASE, AGGREGATES, AND VITRIFICATION, AS WELL AS THE EPOXY DIVIDER STRIPS AND LAYOUT. A SUBMITTAL OF EACH TERRAZZO MIX BEING PATCHED TO BE PROVIDED FOR MATCH REVIEW ON SITE.

FN13 NEW WALL OR WALL PATCH TO MATCH EXISTING ADJACENT WALL. MATCH TO INCLUDE PAINT COLOR, QUALITY AND FINISH AND BASE TO MATCH STYLE, HEIGHT AND COLOR.

FN14 FRONT DESK AND MEDIA CENTER DESK WITH WATERFALL TRANSACTION COUNTER AND DECORATIVE PLASTIC LAMINATE PANELS. SEE ELEVATIONS 11-14/A611 & 15/A611

FN15 CARPET PATTERN AS INDICATED BY THIS FINISH KEY NOTE ON A800 SERIES PLANS. PATTERN IS A RANDOM INSTALL OF CARPETS C1 (APPROX 70% OF PATTERN) AND C2 (APPROX 30% OF PATTERN). PATTERN TO BE INSTALLED RANDOM WITH MANUFACTURER'S RECOMMENDED RELEASABLE ADHESIVE. SUBMITTAL OF PATTERN (INCLUDING SEAMING DIAGRAM) TO BE PROVIDED FOR APPROVAL PRIOR TO ORDER.

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FN17 SOLID BLACK HATCH INDICATES ALL EXISTING CERAMIC TILE FLOOR INSERTS TO BE REMOVED AND PATCHED WITH TERRAZZO. TERRAZZO PATCH TO BE TZ2. GRIND CONCRETE SLAB AS NEEDED TO PREP FOR TERRAZZO PATCH.

FN18 WALL TO BE PATCHED WITH SALVAGED STRUCTUAL GLAZED TILE QUANTITY AVAILABLE. IF WALL CAN NOT BE PATCHED WITH SALVAGED SGT, WALL TO BE PAINTED EP3 FROM FLOOR TO HEIGHT OF ADJACENT SGT AND EP1 FROM TOP OF ADJACENT SGT TO CEILING.

FN19 TARKETTE/JOHNSONITE SLIM LINE NOSING ON EDGE. SUBMITTAL OF EDGE CONDITION REQUIRED FOR REVIEW.

FN20 ALL MOP SINK LOCATIONS TO RECEIVE FRP. LENGTH AS NECESSARY, MIN. OF 2'-0" BEYOND EXTENTS 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.

FN21 WATER FOUNTAIN TILE PATTERN, SEE 9/A800.

FN22 NO FINISHES TO BE APPLIED TO BRICK WALL.

FN23 CORRIDOR TILE WAINSCOT OVER EXISTING WALL WHERE VINYL WALL COVERING HAS BEEN REMOVED. SEE 10/A800, TILE DETAIL 1. REFER TO FN4 FOR ADDITONAL TILE WAINSCOT INFORMATION.

FN24 CORRIDOR TILE WAINSCOT OVER EXISTING WALL WHERE VINYL WALL COVERING HAS BEEN REMOVED AND TACKBOARDS INSTALLED. SEE 11/A800, TILE DETAIL 2. REFER TO FN4 FOR ADDITONAL TILE WAINSCOT INFORMATION.

FN25 CORRIDOR TILE WAINSCOT OVER EXISTING WALL OR NEW WALL TYPE AS NOTED ON A200 SERIES. SEE 12/A800, TILE DETAIL 3. REFER TO FN4 FOR ADDITONAL TILE WAINSCOT INFORMATION.

FN26 CORRIDOR TILE WAINSCOT OVER EXISTING WALL OR NEW WALL TYPE AS NOTED ON A200 SERIES WHERE TACKBOARDS INSTALLED. SEE 13/A800, TILE DETAIL 4. REFER TO FN4 FOR ADDITONAL TILE WAINSCOT INFORMATION.

FN27 CAFETERIA WALLS AND COLUMNS AND LOBBY WALLS TO RECEIVE PORCELAIN TILE (WT1) FROM TOP OF BASE TO APPROX 4'-10" AFF (TO MATCH THE HEIGHT OF THE STRUCTURAL GLAZED TILE). WALL TILE CAPPED WITH SCHLUTER JOLLY TRIM. SEE CAFETERIA TILE ELEVATION 8/A800. REFER TO FN23-FN26 FOR WALL CONDITIONS.

FN28 ACCENT PAINT TO BE APPLIED TO EVERY SIDE OF COLUMN.

FN29 PROPERLY PREP WALL APPLIED 2"x2" TILES TO RECIEVE PAINT.

FN30 ABOVE BULKHEAD TO BE PAINTED P1.

FN31 CARPET INSTALLED ON CIRCULAR STAIRS TO BE CUT INTO WEDGE SHAPES TO REDUCE THE AMMOUNT OF SMALL SLIVERS OF TILE. SUBMITTAL OF PATTERN (INCLUDING SEAMING DIAGRAM) TO BE PROVIDED FOR APPROVAL PRIOR TO ORDER. INSTALLER TO PROVIDE MOCKUP OR SMALL PORTION OF INSTALL FOR ON SITE REVIEW PRIOR TO FULL INSTALL. SEE 14/A800 FOR DETAIL

FN32 WOOD TRIM TO BE PAINTED P3

FN33 GREY DIAGONAL UP HATCH NOTES NEW CORRIDOR TO RECIEVE TERRAZZO. TERRAZZO TO MATCH EXISTING ADJACENT TERRAZZO AS NOTED BY FINISH TAGS TZ3 OR TZ4. MATCH COMPLETE THE EPOXY FOMULA BASE, AGGREGATES, AND VITRIFICATION, AS WELL AS THE EPOXY DIVIDER STRIPS AND LAYOUT. A SUBMITTAL OF EACH TERRAZZO MIX BEING PATCHED TO BE PROVIDED FOR MATCH REVIEW ON SITE.

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PROJECT:
MSD OF WARREN TOWNSHIP
PLEASANT RUN ELEMENTARY SCHOOL
RENOVATION & ADDITION
1800 N. FRANKLIN RD. INDIANAPOLIS, IN 46219

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

REVISIONS:

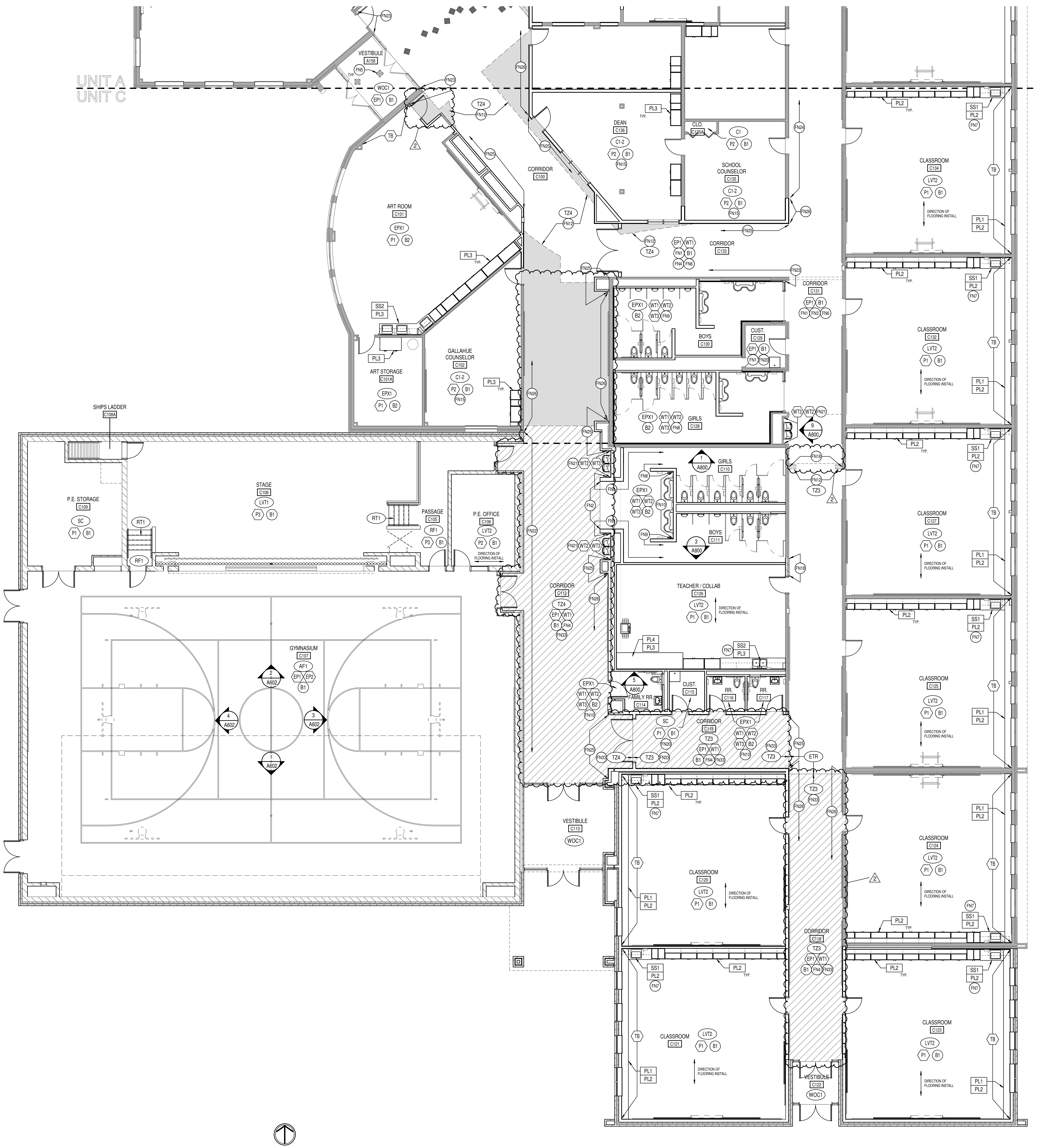
2	ADDENDUM #2	03-24-21

ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	MEB	JSK

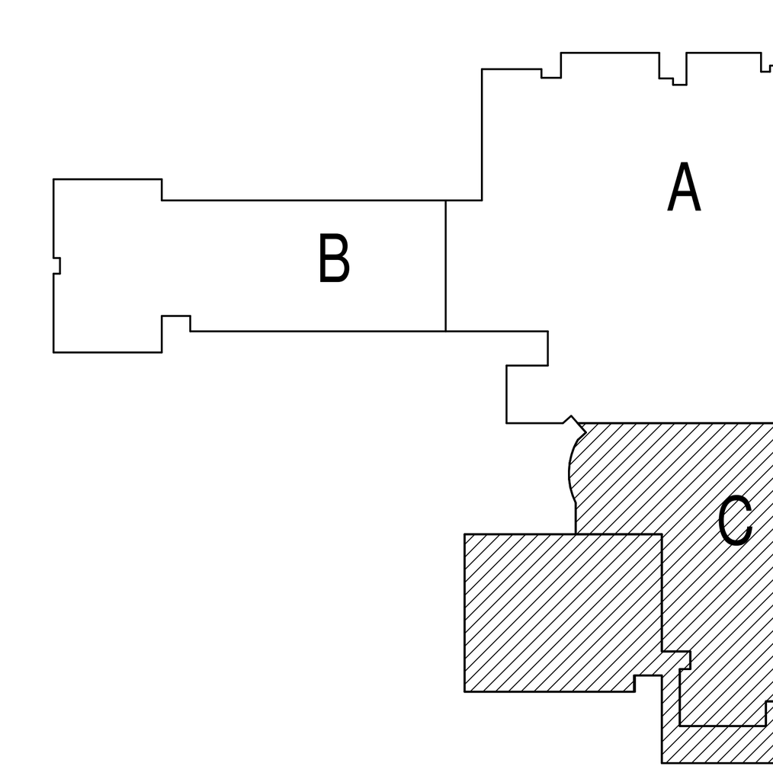
DRAWING TITLE:
FIRST FLOOR FINISH PLAN - UNIT A

DRAWING NUMBER
A801A

PROJECT NUMBER
2020061



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



KEYPLAN

GENERAL FINISH NOTES

1. 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 CONTRACTORS ACTUAL COLOR SUBMITTALS HAVE BEEN APPROVED, AS CALLED FOR IN THE SPECIFICATIONS. IF ANY MATERIAL IS INSTALLED BEFORE APPROVAL THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COMPLETE REPLACEMENT AND INSTALLATION OF ERRONEOUS PRODUCT.
3. WHERE DEMOLITION OCCURS SURFACE IS TO BE PROPERLY PATCHED AND REPAIRED TO MATCH SURROUNDING SURFACES BEFORE FINISH IS APPLIED.
4. CONTRACTOR RESPONSIBLE FOR PROTECTING EXISTING FINISHES TO REMAIN DURING CONSTRUCTION PROCESS. ALL SURFACES TO REMAIN SHALL BE PROPERLY CLEANED.
5. ALL SURFACES RECEIVING FINISHES SHALL BE PROPERLY PREPARED PER MANUFACTURERS SPECIFICATIONS PRIOR TO INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING CONDITIONS.
6. FOR CHANGE IN FLOOR FINISH MATERIAL TYPE, PROVIDE TRANSITION STRIP AT DOOR OPENINGS U.N.O.. G.C. IS TO SUBMIT COLOR SAMPLES OF TRANSITION STRIPS TO ARCHITECT/DESIGNER FOR APPROVAL AND SELECTION OF COLOR. TRANSITION TO BE NARROWEST PROFILE AVAILABLE THAT MEETS CODE/ADA COMPLIANCE.
7. WHEN FLOOR FINISHES TRANSITION AT A DOOR OPENING THE TRANSITION IS TO BE ON CENTER OF THE DOOR UNLESS NOTED OTHERWISE.
8. PAINT WALLS BEFORE INSTALLING MARKER BOARDS, TACKBOARDS, ETC.
9. ALL OUTSIDE GYPSUM BOARD CORNERS (ADMIN AREA) ARE TO RECEIVE 2" FLANGE SURFACE MOUNTED CORNER GUARDS. STYLE TO BE INPRO OR LISTED EQUAL AS FOUND IN THE SPECIFICATION DOCUMENT. MOUNTING HEIGHT TO START AT TOP OF BASE AND END ALIGNED TO TOP OF DOOR FRAME. COLOR TO BE SELECTED FROM MFR'S FULL RANGE.
10. ALL WALL MOUNTED GRILLES, METAL PANELS, MISC. METALS, ETC. ARE TO BE ELECTROSTATICALLY PAINTED TO MATCH THE ADJACENT WALL FINISH UNLESS OTHERWISE NOTED.
11. ALL EXISTING AND NEW HOLLOW METAL DOORS & FRAMES ARE TO BE PAINTED P3.
12. NEW WOOD DOORS ARE TO BE PLAIN SLICED MAPLE WITH CUSTOM STAIN TO MATCH ARCHITECTS CONTROL SAMPLE. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
13. NEW SOLID PLASTIC TOILET PARTITION FINISH AND COLOR TO BE SELECTED FROM MANUFACTURERS FULL RANGE.
14. ALL CLASSROOM TACKBOARDS TO BE TB1 TYPICAL. SEE FINISH LEGEND FOR COLOR AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
15. WHERE WALL TILE OCCURS, ALL OUTSIDE CORNERS AND EDGES (INCLUDING WHERE IT TRANSITIONS TO ADJACENT WALL FINISH AND BASE) AND INTERMEDIATE JOINT BETWEEN FIELD TILE AND ACCENT TILE ARE TO BE TRIMMED WITH SCHLUTER SYSTEMS. SEE SPECIFICATIONS FOR ADDITIONAL INFO. FINISH TBD FROM MFRS FULL RANGE.
16. ALL NEW AND EXISTING GWB CEILINGS AND BULKHEADS TO BE PAINTED P1 U.N.O.
17. ALL NEW AND EXISTING STEEL STAIR COMPONENTS TO BE ELECTROSTATICALLY PAINTED P3. ALUMINUM COMPONENTS TO BE EXISTING FINISH, TYPICAL.
18. NEW CUBICLE CURTAINS TO BE SELECTED FROM MANUFACTURERS FULL RANGE.
19. ACOUSTICAL DRAPERIES AND STAGE CURTAINS FOR STAGE ARE TO BE SELECTED FROM MANUFACTURERS FULL RANGE.
20. DISPLAY CASE FINISHES TO BE SELECTED FROM MANUFACTURERS FULL RANGE.
21. ALL PAINTED WALLS AND WALL APPLIED ITEMS PAINTED TO MATCH WALL ARE TO HAVE AN EGGSHELL FINISH. ALL DOOR FRAMES AND MISC. METALS ARE TO RECEIVE A SEMI-GLOSS FINISH AND ALL GWB CEILINGS AND BULKHEADS ARE TO RECEIVE A FLAT FINISH, U.N.O.
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- FN6 EXISTING TERRAZZO FLOOR TO GO THROUGH A COMPLETE ROUGH GRIND PROCESS, REMOVING STAINS AS POSSIBLE, AND VITRIFICATION. ONCE ROUGH GRIND IS COMPLETE POLISH WITH A 120 GRIT DIAMOND, NEXT A 200 GRIT, 400 GRIT DIAMOND AND FINALLY A 800 GRIT DIAMOND BEFORE THE VITRIFICATION PROCESS.
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- FN8 TYPICAL GIRLS RESTROOM TILE PATTERN. SEE ELEVATION 1/A800.
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REVISIONS:

2	ADDENDUM #2	03-24-21

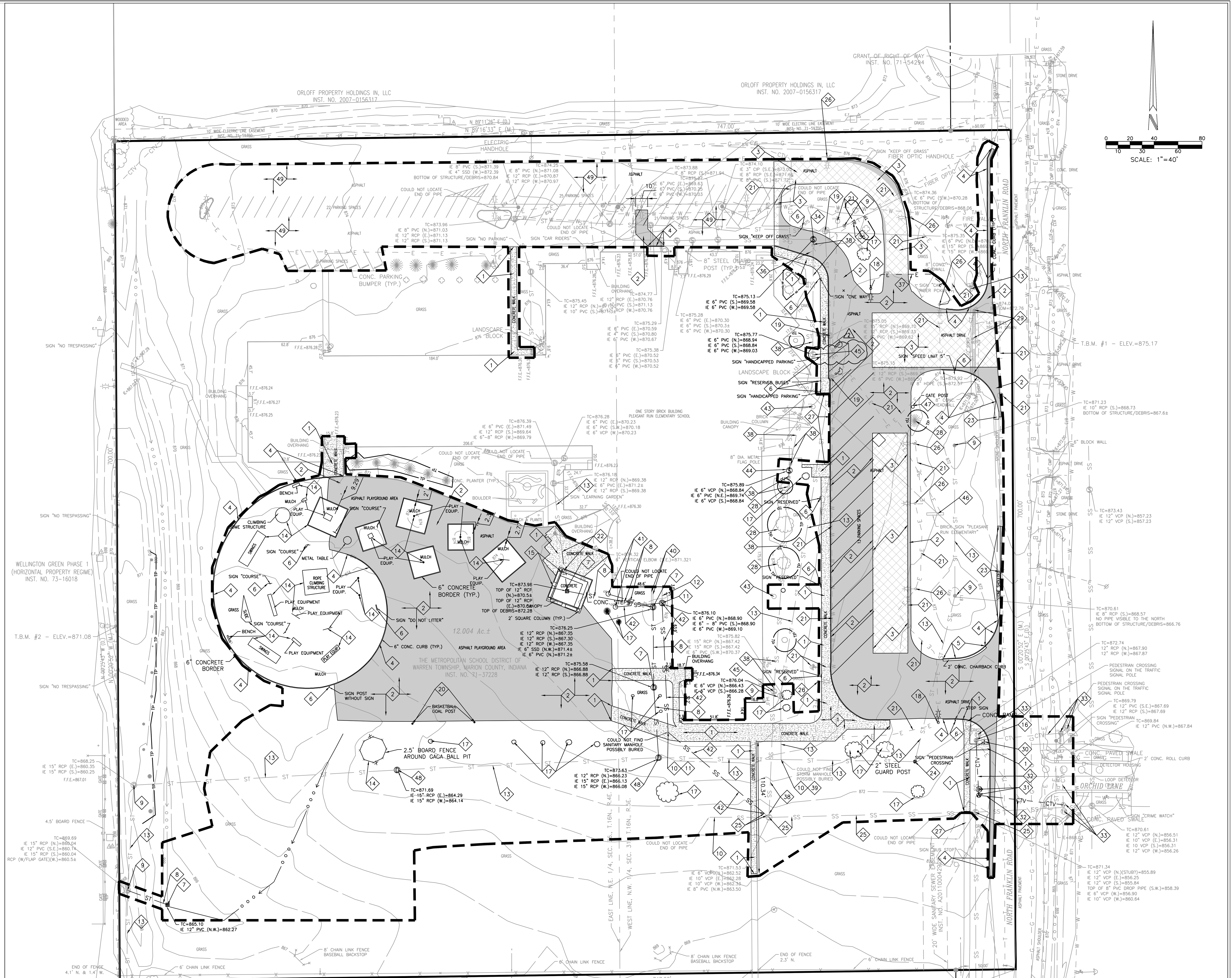
ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	MEB	JSK

DRAWING TITLE:
FIRST FLOOR FINISH PLAN - UNIT C

CERTIFIED BY:
JOHN E. RIGSBEE REGISTERED No. 920019 STATE OF INDIANA ARCHITECT

DRAWING NUMBER
A801C

PROJECT NUMBER
2020061



42	REMOVE SANITARY SEWER.	
43	CONTRACTOR TO FIELD VERIFY IF CLEANOUT IS STORM OR SANITARY PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER SO THAT REDESIGN MAY OCCUR IF NECESSARY.	
44	REMOVE MANHOLE.	
45	FILL MANHOLE WITH APPROVED GRANULAR MATERIAL. REMOVE CASTING AND CONE SECTION OF MANHOLE.	
46	SIGN TO REMAIN.	
47	REMOVE GATE, POST AND FOUNDATION.	
48	REPLACE OR RECONSTRUCT MANHOLE TO ACHIEVE PROPOSED CASTING ELEVATION. CONTRACTOR TO FIELD VERIFY IF MANHOLE CAN BE RECONSTRUCTED FIRST BEFORE REPLACING WITH NEW MANHOLE.	
49	SEALCOAT ASPHALT PAVEMENT AREA (REFER TO MATERIALS AND NOTES PLANS SHEET L101.)	
34	REMOVE SANITARY SEWER MANHOLE TO INSTALL NEW MANHOLE. REFER TO SHEET C501.	
35	COORDINATE ROOF DRAIN REMOVAL OR CONTINUATION WITH MEP AND ARCHITECTURAL PLANS.	
36	FIBER OPTIC LINE TO REMAIN AND BE PROTECTED.	
37	REMOVE ELECTRIC LINE. COORDINATE WITH ELECTRICAL PLANS	
38	ABANDON SANITARY SEWER IN PLACE. GROUT FILL PIPE AND CAP END. CONTRACTOR TO ENSURE THAT ALL EXISTING SANITARY LATERALS FROM THE BUILDING ARE CONNECTED TO THE PROPOSED SANITARY SEWER BEFORE ABANDONING EXISTING SEWER LINE.	2
39	POSSIBLE BURIED STRUCTURE (IF STRUCTURE EXISTS, REPLACE CASTING WITH TRAFFIC BEARING SOLID LID AND ADJUST THE CASTING TO PROPOSED GRADE.)	
40	STORM SEWER TO REMAIN. CONTRACTOR TO COORDINATE WITH MEP AND ARCHITECTURAL PLANS FOR MORE INFORMATION AND THE CONTINUATION WITHIN THE PROPOSED BUILDING.	
41	REMOVE CLEANOUT. CONTRACTOR TO COORDINATE WITH MEP AND ARCHITECTURAL PLANS FOR CONNECTION TO EXISTING PIPE AND THE CONTINUATION WITHIN THE PROPOSED BUILDING.	
26	LIGHT POLE TO REMAIN. COORDINATE WITH SITE ELECTRICAL PLANS.	
27	EXISTING SIDEWALK TO REMAIN	
28	EXISTING TREE TO REMAIN. REFER TO TREE PROTECTION PLAN SHEET L001.	
29	EXISTING TRENCH DRAIN TO REMAIN	
30	REMOVE PEDESTRIAN CROSSING SIGN.	
31	REMOVE TRAFFIC SIGNAL HANDHOLE AND POLE. COORDINATE WITH CITY OF INDIANAPOLIS DEPARTMENT OF PUBLIC WORKS AND TRAFFIC SIGNAL PLAN PRIOR TO PERFORMING THE WORK.	
32	REMOVE AND RELOCATE CABLE. COORDINATE WITH CITY OF INDIANAPOLIS DEPARTMENT OF PUBLIC WORKS AND TRAFFIC SIGNAL PLAN PRIOR TO PERFORMING THE WORK.	
33	UTILITY TO REMAIN. COORDINATE WITH TRAFFIC SIGNAL PLAN.	
18	REMOVE LIGHT POLE AND FOUNDATION. COORDINATE WITH SITE ELECTRICAL PLANS AND UTILITY COMPANY. CONTRACTOR TO SALVAGE LIGHT FIXTURE AND RETURN TO OWNER.	
19	ADJUST CASTING TO PROPOSED GRADE (REFER TO C301 GRADING PLAN). IF STRUCTURE IS IN PAVED AREA, CASTTING SHALL BE TRAFFIC BEARING AND SHALL BE FLUSH WITH PAVEMENT.	
20	REMOVE GOAL POST.	
21	UTILITY TO REMAIN.	
22	REMOVE SECTION OF STORM SEWER PIPE FOR CONNECTION TO NEW STRUCTURE. SEE SHEET C501.	
23	REMOVE STONE SHOULDER.	
24	REMOVE CASTING AND REPLACE WITH SOLID CASTING. ADJUST CASTING TO PROPOSED GRADE PER SHEET C301.	
25	SANITARY STRUCTURE AND SEWER TO REMAIN.	

EXISTING CONDITIONS LEGEND

SS	SANITARY SEWER & MANHOLE
ST	STORM SEWER; END SECTION, INLET & M.H.
G	GAS LINE
W	WATER LINE
E	ELECTRIC LINE (AERIAL)
T	TELEPHONE LINE (AERIAL)
CTV	CABLE TELEVISION (AERIAL)
BTC	BURIED TELE. CABLE
BEC	BURIED ELEC. CABLE
X	FENCE LINE (FNC)
BCTV	BURIED CABLE TV
I	GUARDRAIL
	RIGHT OF WAY LINE (R/W)
	PROPERTY LINE
	EASEMENT LINE
	CENTER LINE
	SWALE LINE
D.	DEED DIMENSION
M.	MEASURED DIMENSION
P.	PLAT DIMENSION
R.	RADIUS
L.	ARC LENGTH
H.H.	HANDHOLE
FND.	FOUND
CONC.	CONCRETE
ASPH.	ASPHALT
TC	TOP OF CASTING ELEVATION
IE	INVERT ELEVATION
FFE	FINISH FLOOR ELEVATION
TBM	TEMPORARY BENCHMARK
●	DENOTES A 5/8" DIA. REBAR WITH YELLOW PLASTIC CAP SET. CAP STAMPED "CRIPE FIRM NO. 0055" UNLESS OTHERWISE NOTED.
○	DENOTES A MAG NAIL WITH WASHER SET. WASHER STAMPED "CRIPE FIRM NO. 0055" UNLESS OTHERWISE NOTED.

	POWER POLE
	GUY WIRE
	UTILITY RISER; TELEPHONE, ELECTRIC & CABLE TV
E.T.	ELECTRIC TRANSFORMER
	AIR CONDITIONER UNIT
	STREET LIGHT
	LIGHT POLE
	FLOOD LIGHT
TR	TRAFFIC MANHOLE AND SIGNAL POLE
	FIRE HYDRANT
	VALVE; GAS & WATER
	STREET SIGN
W T E	WATER, TELEPHONE AND ELECTRIC MANHOLE
CO	SEWER CLEANOUT
EM GM WM	ELECTRIC, GAS AND WATER METER
	PIPELINE MARKER POST
	MAILBOX
	GUARD POST
	SPRINKLER HEAD
IRR	IRRIGATION CONTROL BOX
MW	MONITORING WELL
SP	FIRE SERVICE STAND PIPE
VP	GAS VENT PIPE
STL	SEPTIC TANK LID
WC	WELL CAP
ARV	AIR RELIEF VALVE
FP	UNDERGROUND TANK FILLER PIPE
123	SITE ADDRESS

DEMOLITION PLAN LEGEND

SAWCUT AND REMOVE ASPHALT FROM SITE

SAWCUT AND REMOVE CONCRETE FROM SITE

TP — TP TREE PRESERVATION FENCING (REFER TO TREE PROTECTION PLAN.)

CONSTRUCTION LIMITS

MILL ASPHALT SURFACE

DEMOLITION PLAN NOTES

1. UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR IS TO DETERMINE AND FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS OF THE UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. THE CONTRACTOR SHALL COORDINATE ALL WORK ASSOCIATED WITH THE ABANDONMENT, REMOVAL, RELOCATION, AND INSTALLATION OF UTILITIES WITH EVERY UTILITY COMPANY AND OBTAIN THEIR APPROVAL PRIOR TO PERFORMING ANY UTILITY WORK.
3. ALL DEMOLISHED MATERIAL TO BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED, AND SHALL BE LEGALLY DISPOSED OF OFF-SITE.
4. CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES PER SHEET C401-C405 AND 410-412 PRIOR TO COMMENCING DEMOLITION.
5. MAINTAIN PROPER DRAINAGE IN DEMOLITION AREAS.
6. SAWCUT CONCRETE AND ASPHALT SURFACES FOR REMOVAL AS NOTED.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING DAMAGE TO ALL BUILDINGS AND/OR SITE ENTITIES THAT ARE TO REMAIN.
8. THE CONCRETE TO BE SAWCUT SHALL BE SAWCUT TO THE NEAREST CONCRETE JOINT BEYOND THE LIMITS ILLUSTRATED. NOTIFY ENGINEER IF JOINT IS OVER ONE (1) FOOT FROM LINE SHOWN.
9. REMOVAL OR RELOCATION OF ALL LANDSCAPING MUST BE COORDINATED WITH OWNER.
10. OVERHEAD AND/OR UNDERGROUND ELECTRIC AND TELEPHONE CABLES THAT ARE SHOWN TO BE ABANDONED IN PLACE MAY BE CUT AS NECESSARY TO FACILITATE NEW CONSTRUCTION. CONTRACTOR SHALL ENSURE THAT LINES ARE NOT ACTIVE PRIOR TO CUTTING AND OBTAIN UTILITY COMPANY APPROVAL PRIOR TO PERFORMING ANY DEMOLITION.
11. WATER LINES SHALL NOT BE ABANDONED OR DEMOLISHED UNTIL PROPOSED WATER MAINS HAVE BEEN INSTALLED TO A POINT SUCH THAT ONLY MINIMAL DISRUPTION IN WATER SERVICE TO THE EXISTING OCCUPIED BUILDINGS WILL OCCUR. CONTRACTOR TO COORDINATE ANY SERVICE SHUT DOWN WITH THE BUILDING OWNER AT LEAST 72 HOURS PRIOR TO SCHEDULING SHUT DOWN.
12. ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
13. CONTRACTOR TO ESTABLISH NEW LOCAL SURVEY CONTROL SYSTEM (VERTICAL AND HORIZONTAL) PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY. MANY TEMPORARY BENCHMARKS UTILIZED IN THE PREPARATION OF THE TOPOGRAPHIC SURVEY FOR THE DESIGN WILL BE RELOCATED AS PART OF CONSTRUCTION.

KEYNOTE LEGEND

1	SAWCUT AND REMOVE CONCRETE SIDEWALK TO THE NEAREST CONCRETE JOINT BEYOND THE LIMITS ILLUSTRATED. NOTIFY ENGINEER IF JOINT IS OVER ONE (1) FOOT FROM LINE SHOWN.
2	SAWCUT AND REMOVE ASPHALT AND GRANULAR SUBBASE
3	MILL ASPHALT SURFACE 1 ½ INCHES
4	SAWCUT AND REMOVE CONCRETE CURB
5	REMOVE CONCRETE CHAIRBACK CURB
6	REMOVE EXISTING SIGN, POST AND FOUNDATION. CONTRACTOR TO COORDINATE SALVAGING SIGN WITH OWNER.
7	REMOVE STORM STRUCTURE AND CASTING.
8	REMOVE STORM SEWER PIPE.
9	STORM SEWER STRUCTURE TO REMAIN.
10	CONTRACTOR TO POTHOLE AND FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF UTILITY PRIOR TO CONSTRUCTION.
11	REMOVE SANITARY STRUCTURE AND CASTING. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL AND MEP PLANS FOR CONTINUATION OF THE SANITARY LATERAL FROM THE BUILDING.
12	SANITARY SEWER TO REMAIN. CONTRACTOR TO COORDINATE WITH MEP AND ARCHITECTURAL PLANS FOR MORE INFORMATION AND THE CONTINUATION WITHIN THE PROPOSED BUILDING.
13	STORM SEWER PIPE TO REMAIN
14	REMOVE PLAYGROUND EQUIPMENT AND APPURTENANCES
15	REMOVE CANOPY AND ITS SUPPORT COLUMNS AND CONCRETE STEPS
16	TRAFFIC SIGNAL POLE TO REMAIN. CONTRACTOR TO COORDINATE WITH TRAFFIC SIGNAL PLAN.
17	REMOVE TREE, SHRUBS, UNDERBRUSH, LANDSCAPING AND VEGETATION INCLUDING ROOT BALLS

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PROJECT:
MSD OF WARREN TOWNSHIP
PLEASANT RUN ELEMENTARY SCHOOL
RENOVATION & ADDITION
1800 N. FRANKLIN RD. INDIANAPOLIS, IN 46219

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

REVISIONS:
1 ADDENDUM #1, 03/15/2021
2 ADDENDUM #2, 03/24/2021

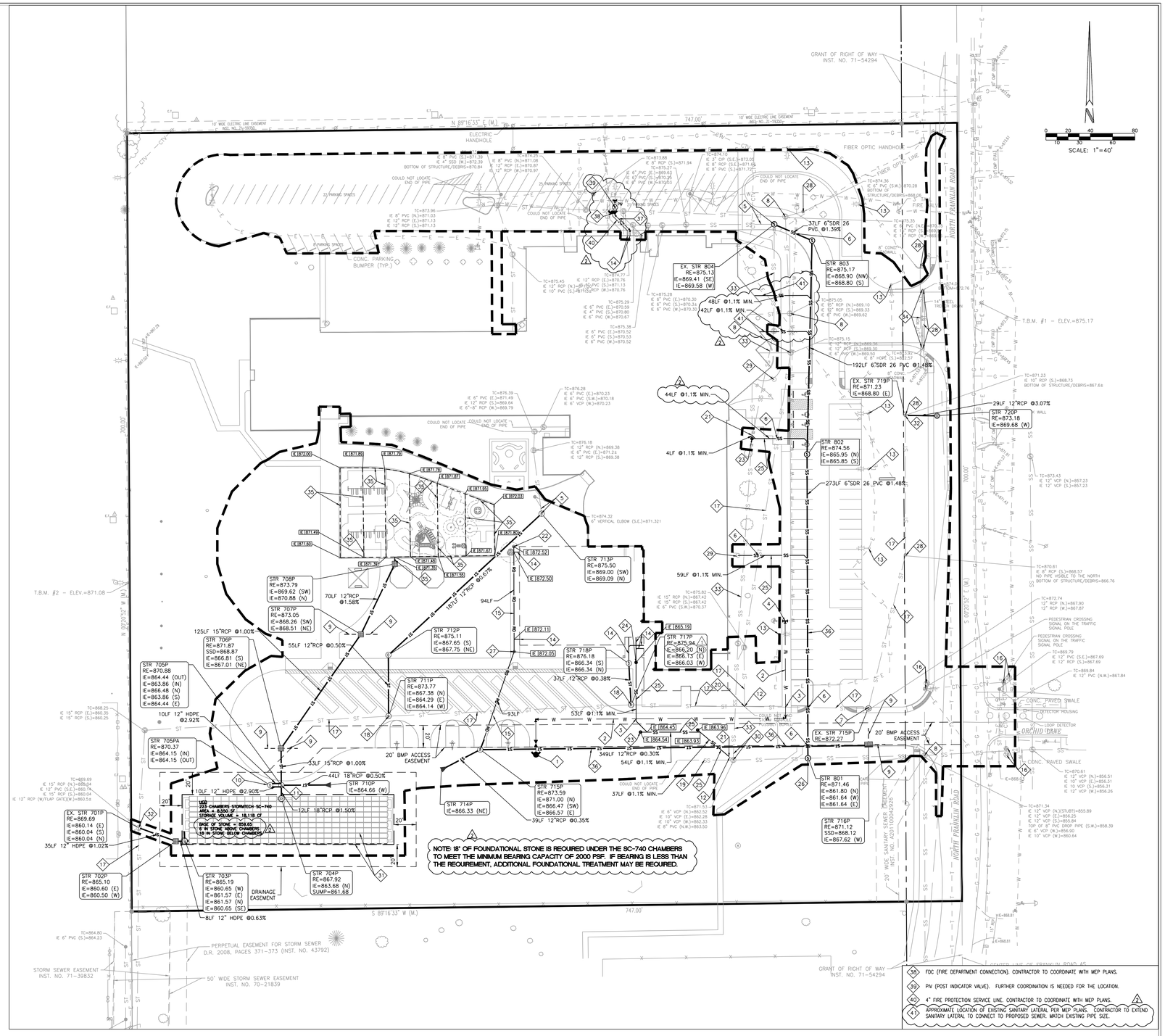
ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	J.HENSEL	S.PIERRE

DRAWING TITLE:
EXISTING CONDITIONS AND DEMOLITION PLAN

CERTIFIED BY:
STEV PIERRE REGISTERED No. PE11600721 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWING NUMBER
C101

PROJECT NUMBER
2020061
CRIPE No. 200084-20010



UTILITY PLAN LEGEND

ST — ST	STORM SEWER, MANHOLE		END SECTION
— — — —	SUBSURFACE DRAIN (SSD)		CURB INLET
RD — RD	ROOF DRAIN, CLEANOUT		STORM SEWER INLETS
W — W	WATER LINE, METER, VALVE		"TEE" FITTING
SS — SS	SANITARY SEWER, MANHOLE		TAPPING SLEEVE & VALVE
SS — SS	SANITARY LATERAL, CLEAN OUT		FIRE HYDRANT
— — — —	EASEMENT LINE		FIRE DEPARTMENT CONNECTION
E — E	OVERHEAD ELECTRIC, POLE		POST INDICATOR VALVE
BEC — BEC	BURIED ELECTRIC, MANHOLE		STREET LIGHT
CTV — CTV	OVERHEAD CABLE TELEVISION	ET	TRANSFORMER
BCTV — BCTV	BURIED CABLE TELEVISION	EM	ELECTRIC METER
G — G	GAS LINE, METER, VALVE		CABLE RISER PEDESTAL
T — T	OVERHEAD TELEPHONE LINE		
BTC — BTC	BURIED TELEPHONE LINE		

UTILITY PLAN NOTES:

1. SEE ARCHITECTURAL PLUMBING PLANS FOR PLUMBING DETAILS TO AREAS FIVE (5) FEET OUTSIDE AND INSIDE OF THE PROPOSED STRUCTURE.
2. SITE CONTRACTOR TO VERIFY ALL BUILDING LATERALS WITH PLUMBING DRAWINGS PRIOR TO CONSTRUCTION.
3. SITE UTILITY CONTRACTOR TO VERIFY BUILDING CONNECTION LOCATIONS AND ELEVATIONS WITH MEP AND ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.
4. EXISTING UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE AND FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. RIM ELEVATION (RE) SHALL INDICATE THE ELEVATION THAT WATER WOULD ENTER THE GRATE FOR ALL CASTINGS. IF CASTING HAS SOLID LID, THE RE IS THE LID ELEVATION.
6. WATER AND SEWER CROSSINGS AND SEPARATIONS SHALL BE IN ACCORDANCE WITH "TEN STATE STANDARDS" AND LOCAL CODES.
7. WATER LINES THROUGHOUT THE PROJECT SHALL BE INSTALLED WITH AT LEAST 54 INCHES OF COVER TO PROVIDE PROTECTION FROM FREEZING.
8. PLASTIC WATER LINES SHALL BEAR THE NSF SEAL OF APPROVAL AND MEET COMMERCIAL STANDARD NO. 256-3, PRODUCT STANDARD 22-70, OR ASTM D 2441.
9. ALL SUB-SURFACE DRAIN (SSD) SHALL BE 6" PERFORATED DUAL WALL HDPE UNLESS NOTED OTHERWISE.
10. INVERT ELEVATION OF SUB-SURFACE DRAIN (SSD) AT STRUCTURE TO BE THREE (3) FEET BELOW RIM ELEVATION.
11. ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD IMMEDIATELY SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
12. WHERE CONNECTIONS ARE MADE TO EXISTING MANHOLES OR INLET STRUCTURES, THOSE STRUCTURES SHALL BE REHABILITATED OR REPLACED TO THOSE MINIMUM STANDARDS OUTLINED IN CHAPTERS 400 AND 500 OF THE CITY OF INDIANAPOLIS STORMWATER SPECIFICATIONS MANUAL, LATEST EDITION. THE REHABILITATION SHALL INCLUDE THE INSTALLATION OF BENCH WALLS, AS WELL AS PRESCRIBED MEASURES TO ELIMINATE THE POTENTIAL FOR MIGRATION OF BACKFILL MATERIALS INTO THE STORMWATER SYSTEM.
13. ALL EXISTING UTILITY STRUCTURES, MANHOLES AND CATCH BASIN GRATES SHALL BE ADJUSTED TO NEW FINISHED GRADE ELEVATION.
14. ALL UTILITY STRUCTURES IN PAVED AREAS SHALL BE TRAFFIC BEARING AND SHALL BE FLUSHED WITH ADJACENT PAVEMENT.

KEYNOTE LEGEND

1. FIRE HYDRANT ASSEMBLY
2. FIRE PROTECTION SERVICE LINE (MATCH EXISTING SIZE)
3. WATER AND UTILITY (GAS/STORM/SANITARY) CROSSING (18" SEPARATION). IF CONFLICT OCCURS, LOWER WATERLINE
4. CONNECT TO EXISTING WATERLINE
5. CONNECT EXISTING SEWER TO PROPOSED STRUCTURE.
6. IF 18" SEPARATION CANNOT BE MAINTAINED, PROVIDE SANITARY SEWER CONCRETE ENCASEMENT 5' EACH WAY OF CENTERLINE OF STORM SEWER CROSSING
7. REPLACE CASTING TO SOLID LID AND ADJUST TO PROPOSED GRADE.
8. ADJUST CASTING TO PROPOSED GRADE. CONTRACTOR TO VERIFY THAT CASTING IS TRAFFIC RATED IN PAVEMENT AREA. IF NOT, TRAFFIC RATED CASTING IS REQUIRED.
9. 15LF 6" PERFORATED DUAL WALL HDPE SUBSURFACE DRAIN @ 0.50% AND CAP END. INVERT OF SSD TO BE 3' BELOW RIM ELEVATION.
10. WATER QUALITY UNIT AQUASWIRL AS-5 (REFER TO STRUCTURE DATA TABLE ON SHEET C502)
11. DIVERSION STRUCTURE
12. CONTRACTOR TO POTHOLE AND FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITY PRIOR TO CONSTRUCTION.
13. EXISTING LIGHT POLE TO REMAIN
14. REFER TO MEP PLANS FOR INVERTS AND CONTINUATION TO BUILDING
15. ROOF DRAIN 6" PVC @0.50% MIN. SLOPE
16. TRAFFIC SIGNAL POLE AND APPURTENANCES TO REMAIN. REFER TO TRAFFIC SIGNAL PLAN.
17. EXISTING STORM SEWER PIPE TO REMAIN.
18. CONNECT EXISTING PIPE TO PROPOSED. IF STRUCTURE IS RECONSTRUCTED, CORE DRILL STRUCTURE TO INSTALL PROPOSED PIPE. CONNECTION TO BE SEALED.
19. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING 10" SANITARY SEWER.
20. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING STORM SEWER MANHOLE. ADJUST CASTING TO GRADE.
21. CONTRACTOR TO CONNECT PROPOSED 6" SANITARY SEWER LATERAL TO EXISTING SANITARY LATERAL
22. TERMINAL STORM SEWER CLEANOUT
23. TERMINAL SANITARY SEWER CLEANOUT
24. INLINE SANITARY SEWER CLEANOUT
25. 6" SDR 26 PVC SANITARY LATERAL @1.10% MINIMUM SLOPE
26. DOGHOUSE MANHOLE (CONNECT EXISTING SANITARY MAIN SEWER TO PROPOSED SANITARY MANHOLE)
27. INLINE STORM SEWER CLEANOUT
28. CLEAN AND VACUUM DEBRIS FROM THE EXISTING SEWER INLETS, STRUCTURES AND PIPES.
29. CONTRACTOR TO FIELD VERIFY IF CLEANOUT IS STORM OR SANITARY PRIOR TO CONSTRUCTION, AND NOTIFY ENGINEER SO THAT REDESIGN MAY OCCUR IF NECESSARY.
30. SEAL HOLE OF ABANDONED PIPE IN EXISTING SANITARY MANHOLE.
31. 223 SC-740 STORMTECH CHAMBERS UNDERGROUND DETENTION SYSTEM.
32. CORE DRILL STRUCTURE TO INSTALL PROPOSED PIPE.
33. ABANDONED SANITARY SEWER (REFER TO SHEET C101). CONTRACTOR TO ENSURE THAT ALL EXISTING SANITARY LATERALS FROM THE BUILDING ARE CONNECTED TO THE PROPOSED SANITARY SEWER BEFORE ABANDONING EXISTING SEWER LINE.
34. EXISTING TRENCH DRAIN TO REMAIN.
35. PLAYGROUND 6" PERFORATED DUAL WALL HDPE SUBSURFACE DRAIN @ 0.50% AND CAP END.
36. GRANULAR BACKFILL
37. 6" FIRE PROTECTION SERVICE LINE. CONTRACTOR TO COORDINATE WITH MEP PLANS.
38. FDC (FIRE DEPARTMENT CONNECTION). CONTRACTOR TO COORDINATE WITH MEP PLANS.
39. PIV (POST INDICATOR VALVE). FURTHER COORDINATION IS NEEDED FOR THE LOCATION.
40. 4" FIRE PROTECTION SERVICE LINE. CONTRACTOR TO COORDINATE WITH MEP PLANS.
41. APPROXIMATE LOCATION OF EXISTING SANITARY LATERAL PER MEP PLANS. CONTRACTOR TO EXTEND SANITARY LATERAL TO CONNECT TO PROPOSED SEWER. MATCH EXISTING PIPE SIZE.

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PROJECT:
MSD OF WARREN TOWNSHIP

PLEASANT RUN ELEMENTARY SCHOOL RENOVATION & ADDITION

1800 N. FRANKLIN RD. INDIANAPOLIS, IN 46219

SCOPE DRAWINGS:
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REVISIONS:
1 ADDENDUM #1, 03/15/2021
2 ADDENDUM #2, 03/24/2021

ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	J.HENSEL	S.PIERRE

DRAWING TITLE:
UTILITY PLAN

CERTIFIED BY:
STEV PIERRE REGISTERED No. PE11600721 STATE OF INDIANA PROFESSIONAL ENGINEER

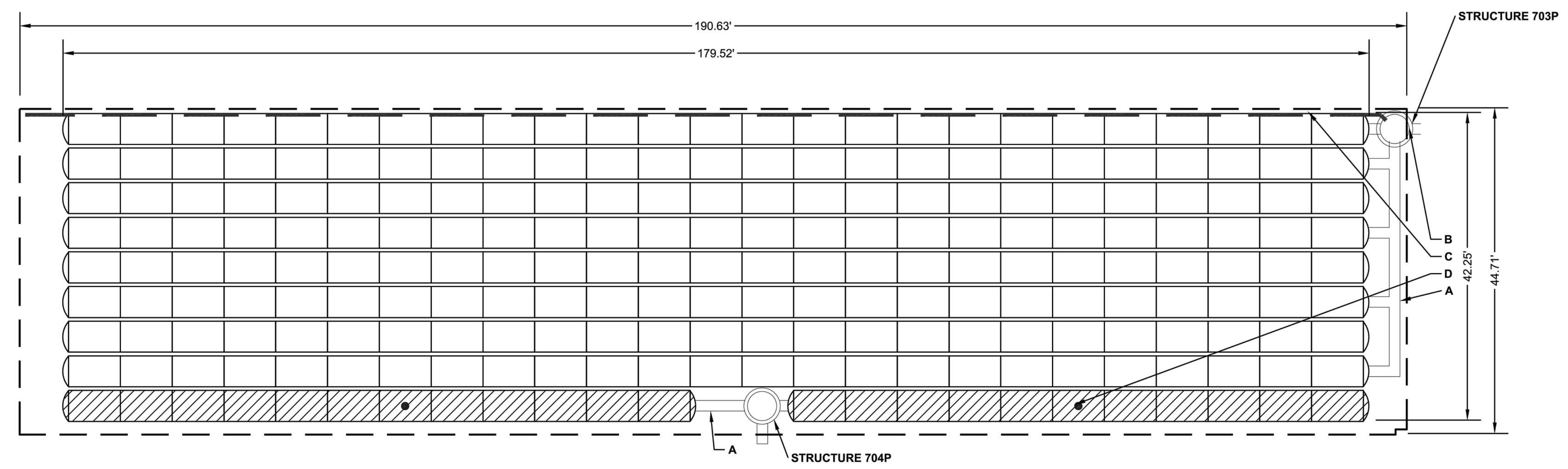
DRAWING NUMBER
C501

PROJECT NUMBER
2020061
CRIPE No. 2000084-20010

PROPOSED LAYOUT		PROPOSED ELEVATIONS	
223	STORMTECH SC-740 CHAMBERS	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	871.65
20	STORMTECH SC-740 END CAPS	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	865.65
6	STONE ABOVE (in)	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	865.15
~~6~~ 18	STONE BELOW (in)	MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	865.15
40	STONE VOID	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	865.15
~~18078~~ 26599	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED) (COVER STONE INCLUDED) (BASE STONE INCLUDED)	TOP OF STONE:	864.15
		TOP OF SC-740 CHAMBER:	863.65
		15" x 15" BOTTOM MANIFOLD INVERT:	861.26
		15" BOTTOM CONNECTION INVERT:	861.26
8521	SYSTEM AREA (SF)	BOTTOM OF SC-740 CHAMBER:	861.15
470.7	SYSTEM PERIMETER (ft)	UNDERDRAIN INVERT:	860.65
		BOTTOM OF STONE:	~~860.65~~ 859.65

*INVERT ABOVE BASE OF CHAMBER

PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT*	MAX FLOW
MANIFOLD	A	15" x 15" BOTTOM MANIFOLD, ADS N-12	1.30"	
CONCRETE STRUCTURE	B	OCS (DESIGN BY ENGINEER / PROVIDED BY OTHERS)		5.4 CFS OUT
UNDERDRAIN	C	6" ADS N-12 DUAL WALL PERFORATED HDPE UNDERDRAIN		
INSPECTION PORT	D	4" SEE DETAIL (TYP 2 PLACES)		



NOTE: 18" OF FOUNDATIONAL STONE IS REQUIRED UNDER THE SC-740 CHAMBERS TO MEET THE MINIMUM BEARING CAPACITY OF 2000 PSF. IF BEARING IS LESS THAN THE REQUIREMENT, ADDITIONAL FOUNDATIONAL TREATMENT MAY BE REQUIRED. (2)

ISOLATOR ROW PLUS (SEE DETAIL/TYP 2 PLACES)

NO WOVEN GEOTEXTILE

BED LIMITS

NOTES

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
- **NOT FOR CONSTRUCTION:** THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

PLEASANT RUN ES, INDIANAPOLIS, IN — DATE: 12/7/2020 — DRAWN: VK — PROJECT #: — CHECKED: N/A — REV / DRW / CHK / DESCRIPTION

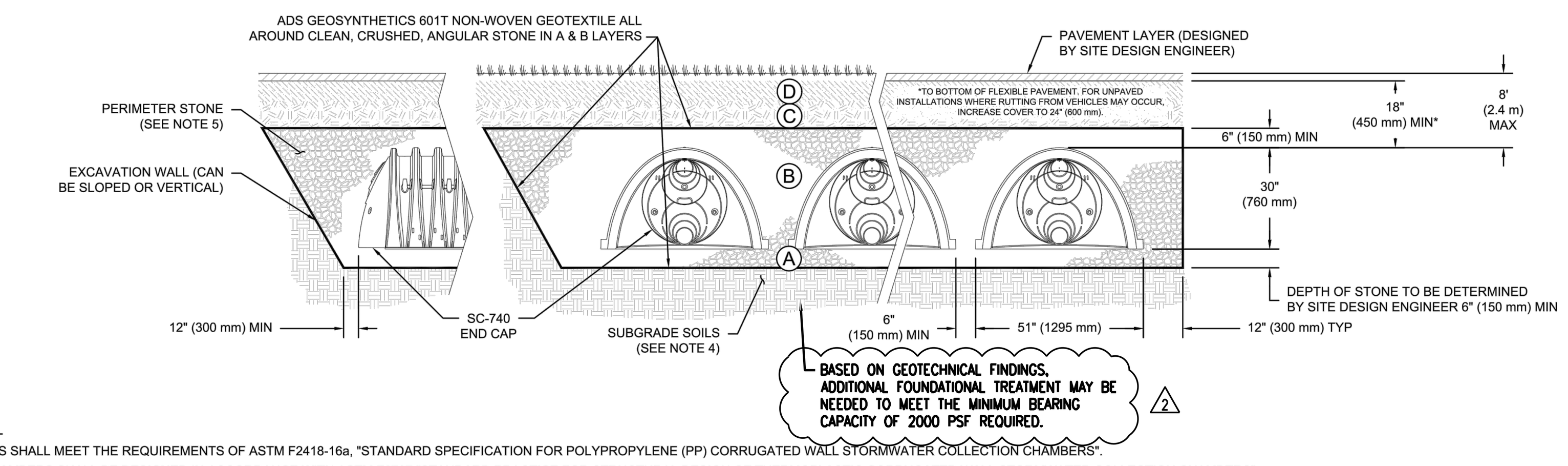
ADS ADVANCED DRAINAGE SYSTEMS, INC. 4640 TRUEMAN BLVD HILLIARD, OH 43026 1-800-733-7473 — StormTech — SHEET 2 OF 5

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:

1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



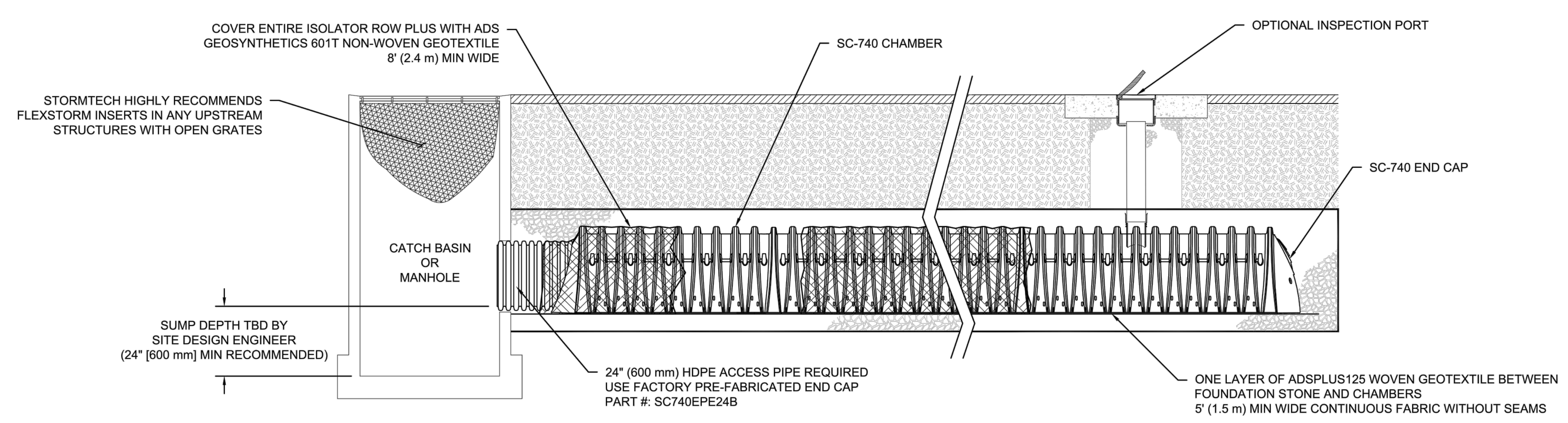
BASED ON GEOTECHNICAL FINDINGS, ADDITIONAL FOUNDATIONAL TREATMENT MAY BE NEEDED TO MEET THE MINIMUM BEARING CAPACITY OF 2000 PSF REQUIRED. (2)

NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

PLEASANT RUN ES, INDIANAPOLIS, IN — DATE: 12/7/2020 — DRAWN: VK — PROJECT #: — CHECKED: N/A

ADS 4640 TRUEMAN BLVD HILLIARD, OH 43026 1-800-733-7473 — StormTech — SHEET 3 OF 5



SC-740 ISOLATOR ROW PLUS DETAIL

NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

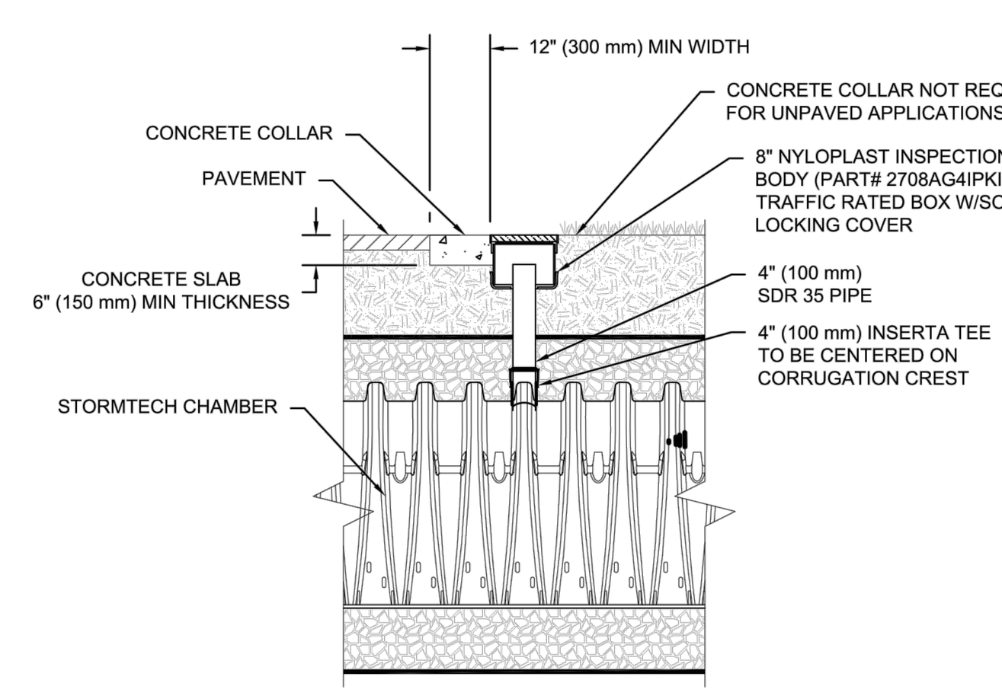
STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



NOTE: INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)

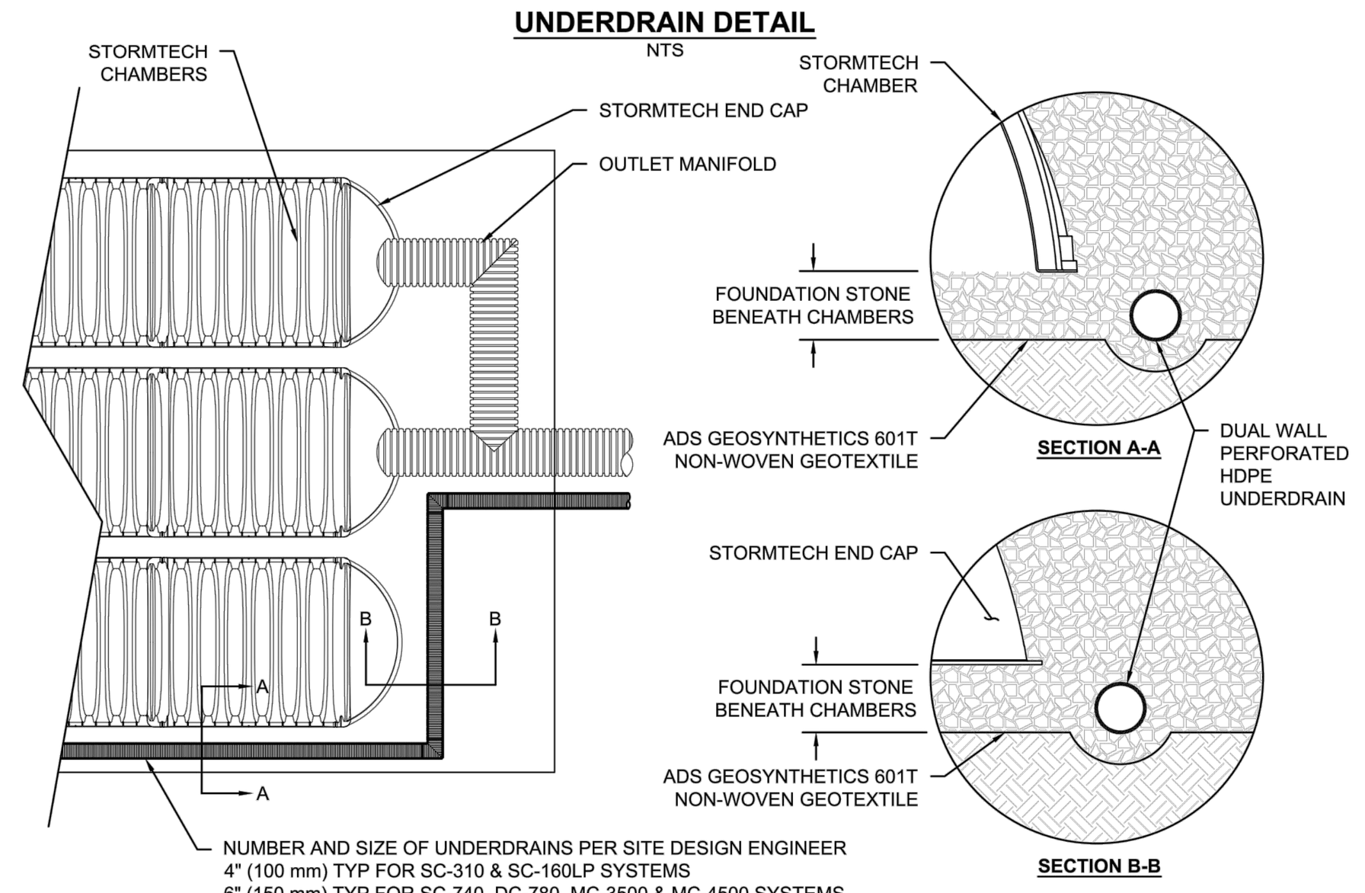
NTS

PLEASANT RUN ES, INDIANAPOLIS, IN — DATE: 12/7/2020 — DRAWN: VK — PROJECT #: — CHECKED: N/A

ADS 4640 TRUEMAN BLVD HILLIARD, OH 43026 1-800-733-7473 — StormTech — SHEET 4 OF 5

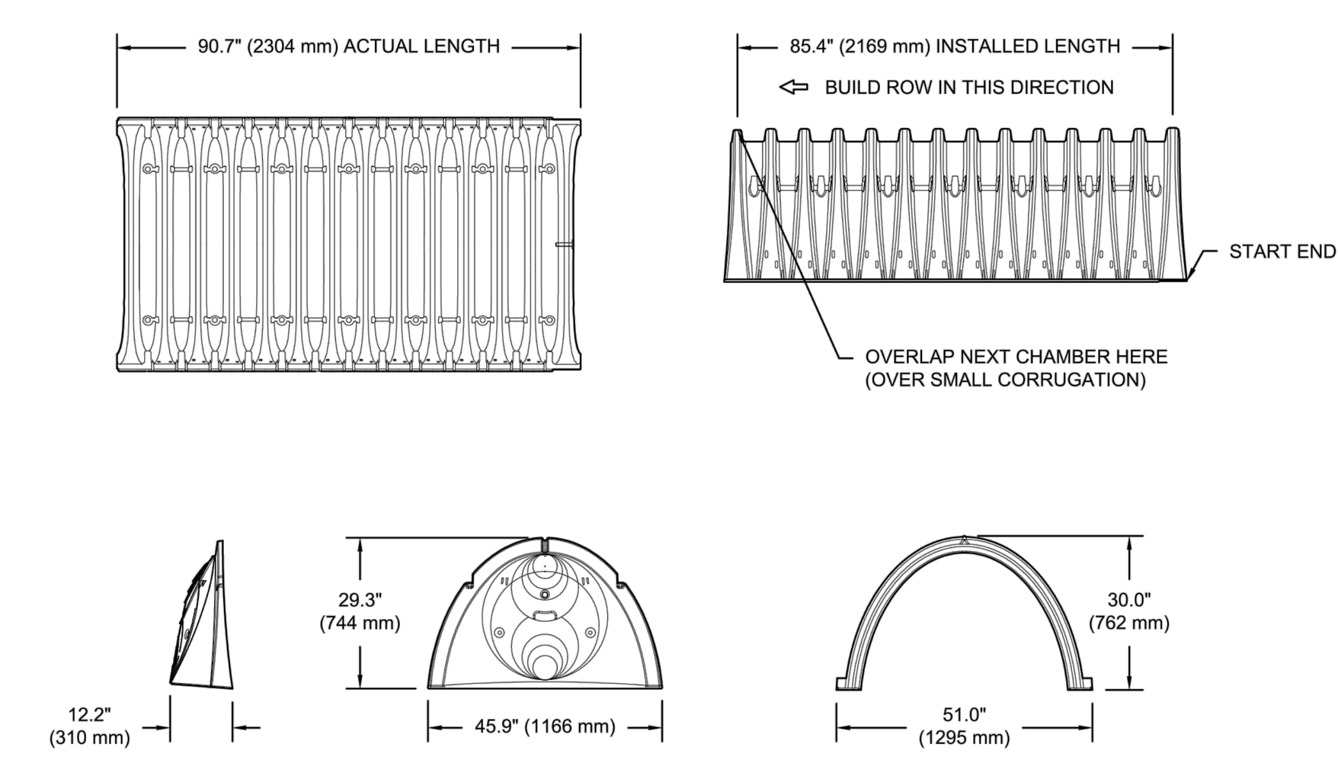
UNDERDRAIN DETAIL

NTS



SC-740 TECHNICAL SPECIFICATION

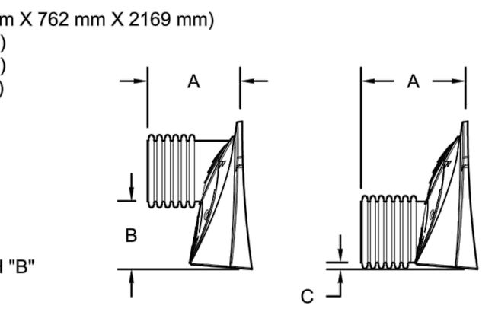
NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	51.0" X 30.0" X 85.4"	(1295 mm X 762 mm X 2169 mm)
CHAMBER STORAGE	45.9 CUBIC FEET	(1.30 m³)
MINIMUM INSTALLED STORAGE*	74.9 CUBIC FEET	(2.12 m³)
WEIGHT	75.0 lbs.	(33.6 kg)

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS



PRE-FAB STUB AT BOTTOM OF END CAP WITH FLAMP END WITH "BR"
PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE-CORED END CAPS END WITH "PC"

PART #	STUB	A	B	C
SC740EPE06T / SC740EPE06TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	---
SC740EPE06B / SC740EPE06BPC			---	0.5" (13 mm)
SC740EPE08T /SC740EPE08TPC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	---
SC740EPE08B / SC740EPE08BPC			---	0.6" (15 mm)
SC740EPE10T / SC740EPE10TPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	---
SC740EPE10B / SC740EPE10BPC			---	0.7" (18 mm)
SC740EPE12T / SC740EPE12TPC	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	---
SC740EPE12B / SC740EPE12BPC			---	1.2" (30 mm)
SC740EPE15T / SC740EPE15TPC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	---
SC740EPE15B / SC740EPE15BPC			---	1.3" (33 mm)
SC740EPE18T / SC740EPE18TPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	---
SC740EPE18B / SC740EPE18BPC			---	1.6" (41 mm)
SC740EPE24B*	24" (600 mm)	18.5" (470 mm)	---	0.1" (3 mm)
SC740EPE24BR*	24" (600 mm)	18.5" (470 mm)	---	0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740EPE24B/SC740EPE24BR ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC740EPE24B/SC740EPE24BR THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

PLEASANT RUN ES, INDIANAPOLIS, IN — DATE: 12/7/2020 — DRAWN: VK — PROJECT #: — CHECKED: N/A

ADS 4640 TRUEMAN BLVD HILLIARD, OH 43026 1-800-733-7473 — StormTech — SHEET 5 OF 5

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INDIANAPOLIS, INDIANA 46240
(317) 844-6777
www.cripe.biz

PROJECT:
MSD OF WARREN TOWNSHIP
PLEASANT RUN ELEMENTARY SCHOOL
RENOVATION & ADDITION
1800 N. FRANKLIN RD. INDIANAPOLIS, IN 46219

SCOPE DRAWINGS:

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

REVISIONS:

(1) ADDENDUM #1, 03/15/2021
(2) ADDENDUM #2, 03/24/2021

ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	J.HENSEL	S.PIERRE

DRAWING TITLE:

UTILITY DETAILS

CERTIFIED BY:

STEV PIERRE REGISTERED No. PE11600721 STATE OF INDIANA PROFESSIONAL ENGINEER

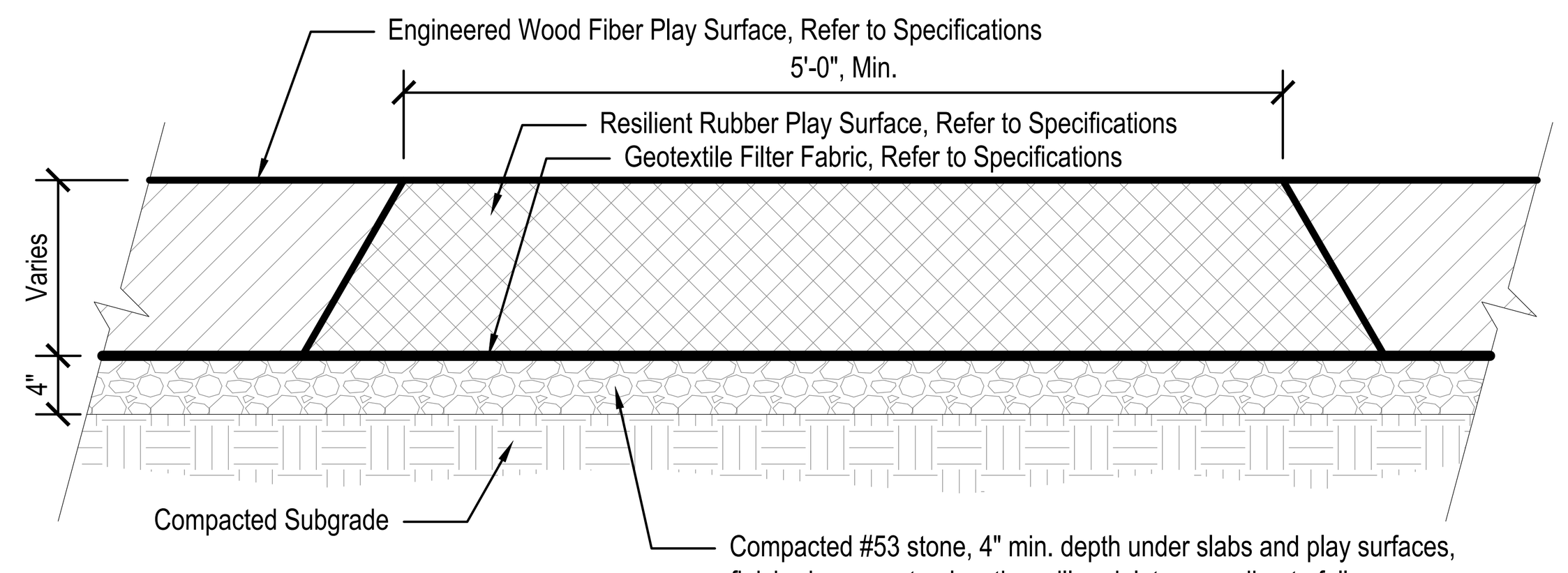
DRAWING NUMBER

C504

PROJECT NUMBER

2020061

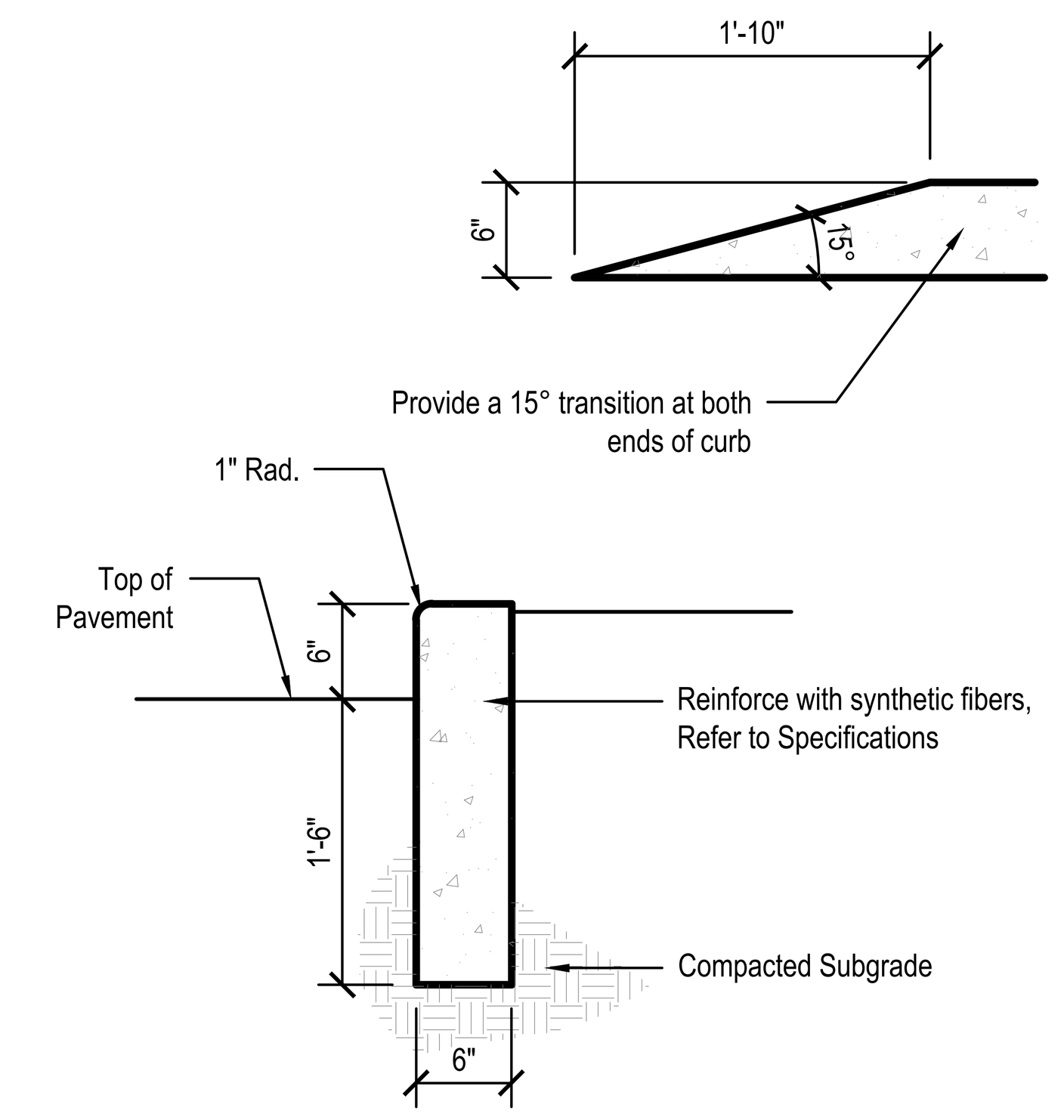
CRIPE No. 200084-20010



NOTE: Confirm Depth of All Play Surface with Equipment Manufacturer Prior to Installation.

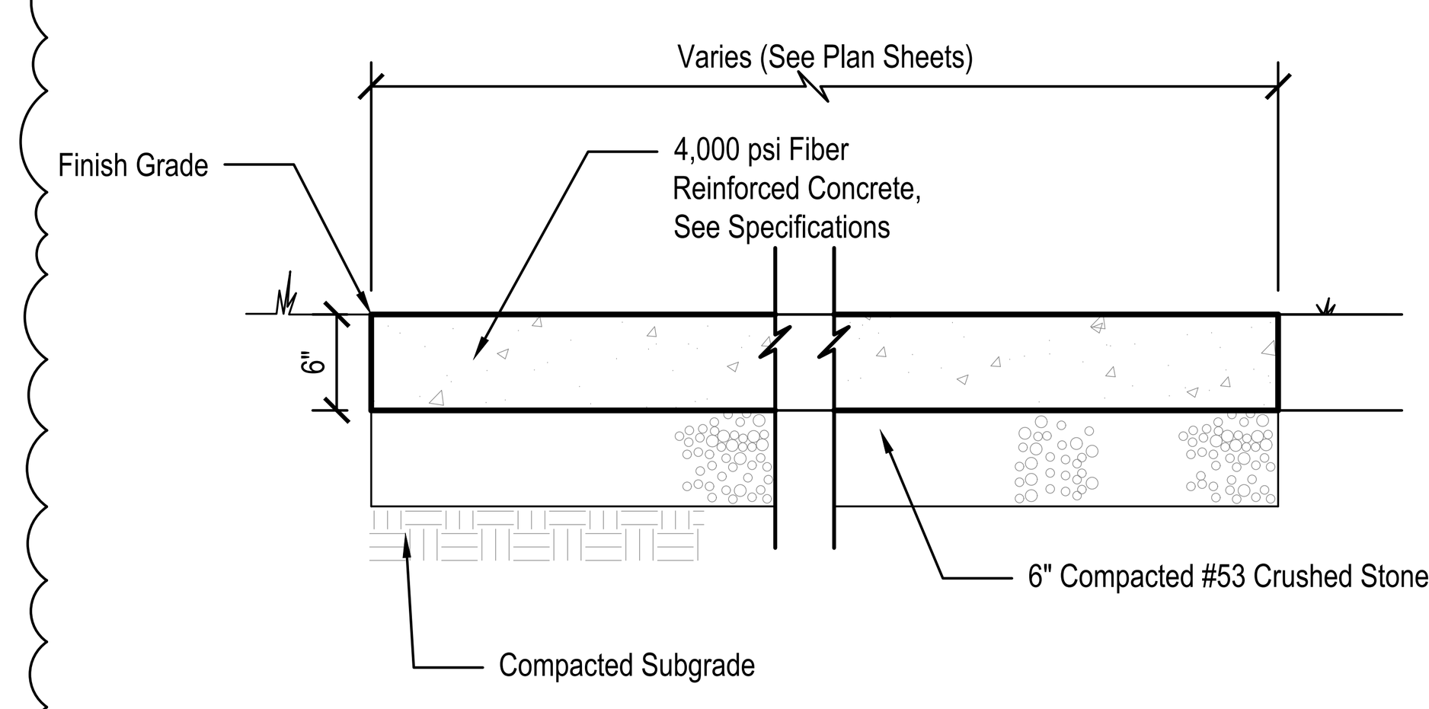
11 RESILIENT RUBBER PLAY SURFACE FOR ADA COMPLIANT ROUTES

Scale: 1" = 1'-0"



7 CONCRETE POST CURB

Scale: 1"=1'-0"

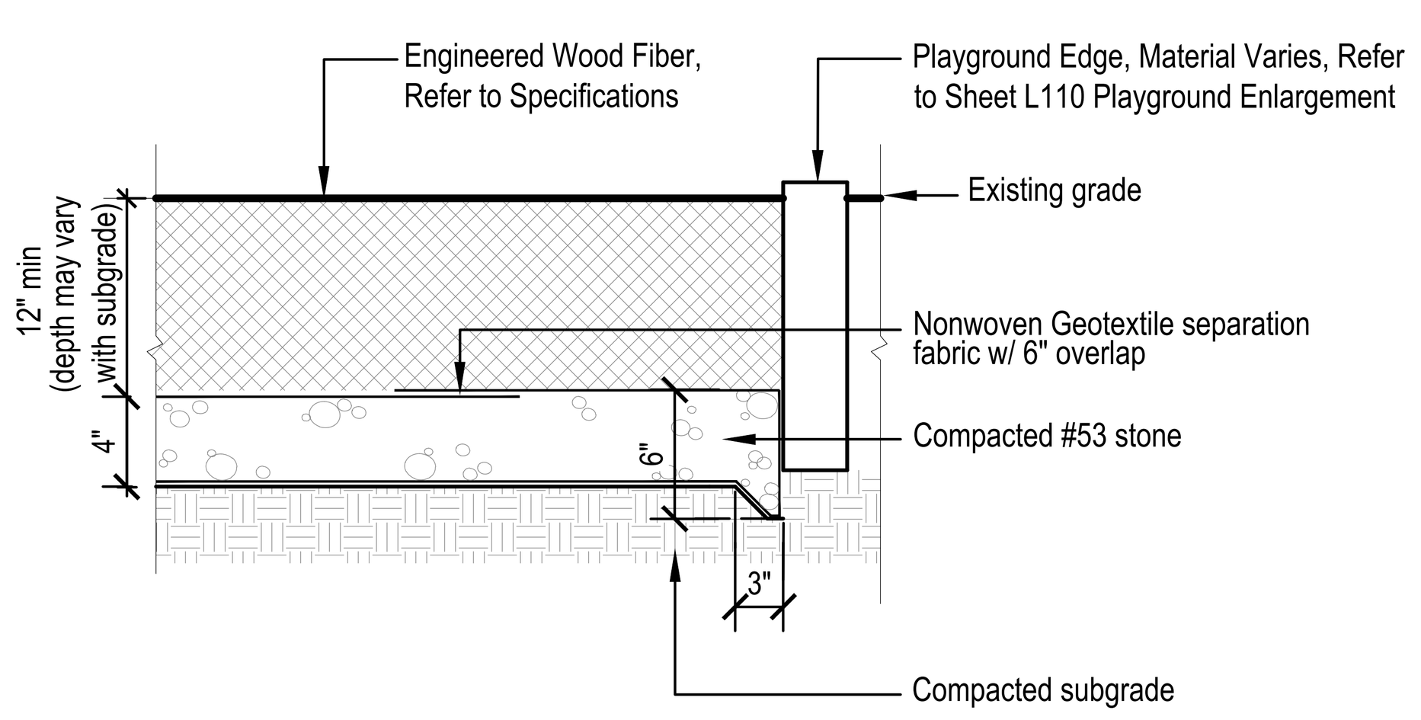


NOTES:
1. Provide expansion joints at intersection with another sidewalk, between walks and building slabs, and at other points as indicated on the drawings. See Detail 6/L500.
2. Refer to plan drawings for locations of control and expansion joints.

4 STANDARD CONCRETE PAVEMENT

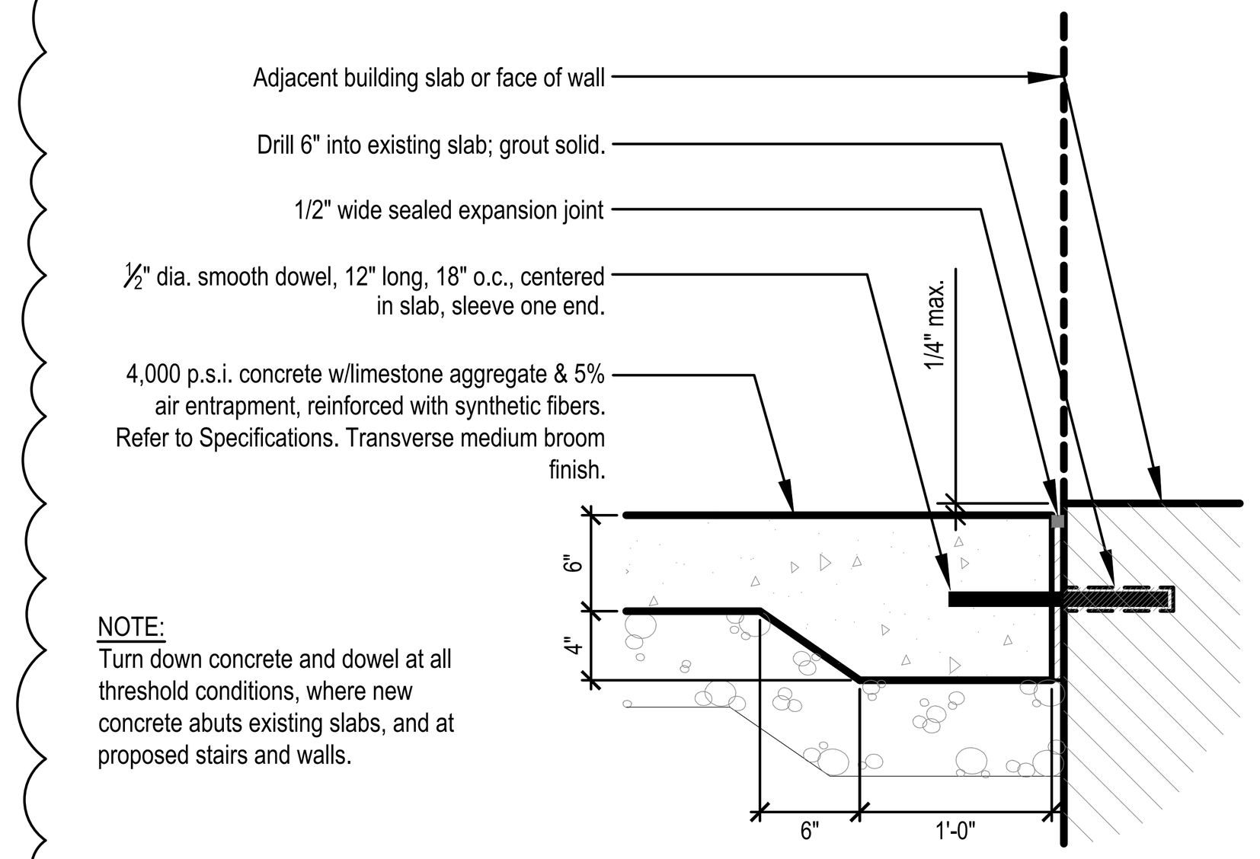
Not to scale

NOTE:
Coordinate Depth of Play Surface with the required fall zones of the Playground Equipment



10 ENGINEERED WOOD FIBER PLAY SURFACE

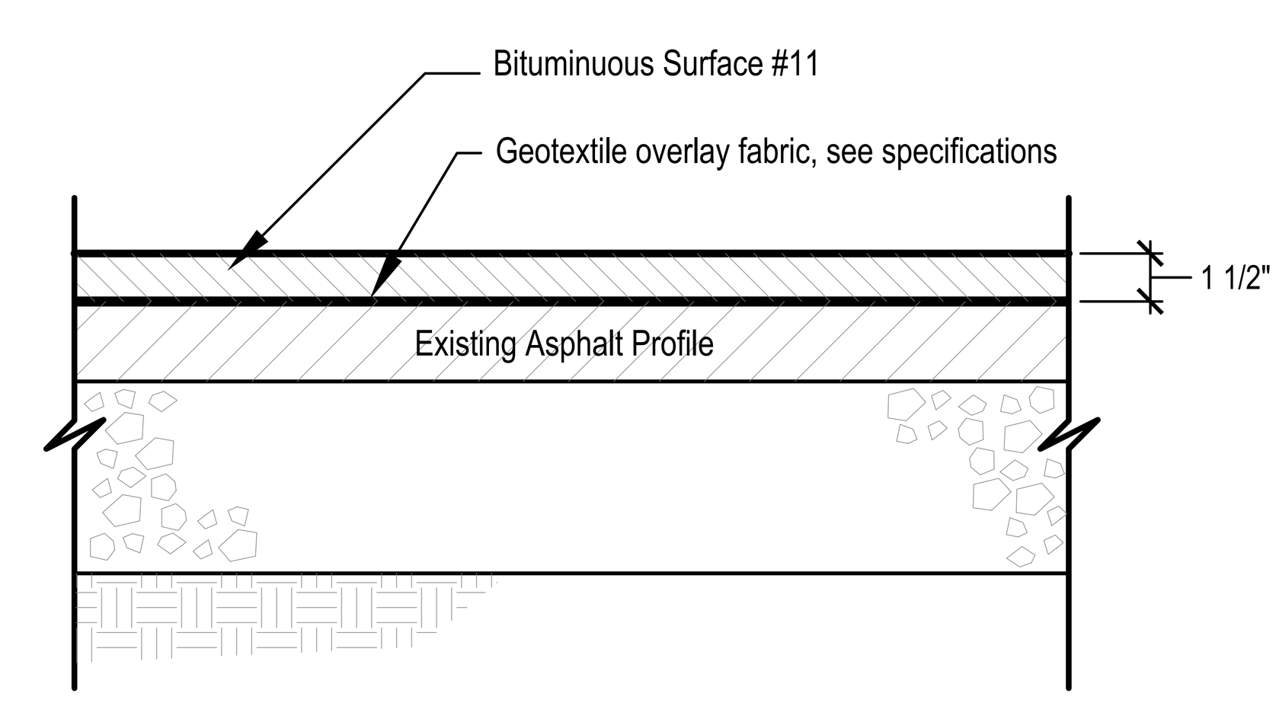
Not to scale



NOTE:
Turn down concrete and dowel at all threshold conditions, where new concrete abuts existing slabs, and at proposed stairs and walls.

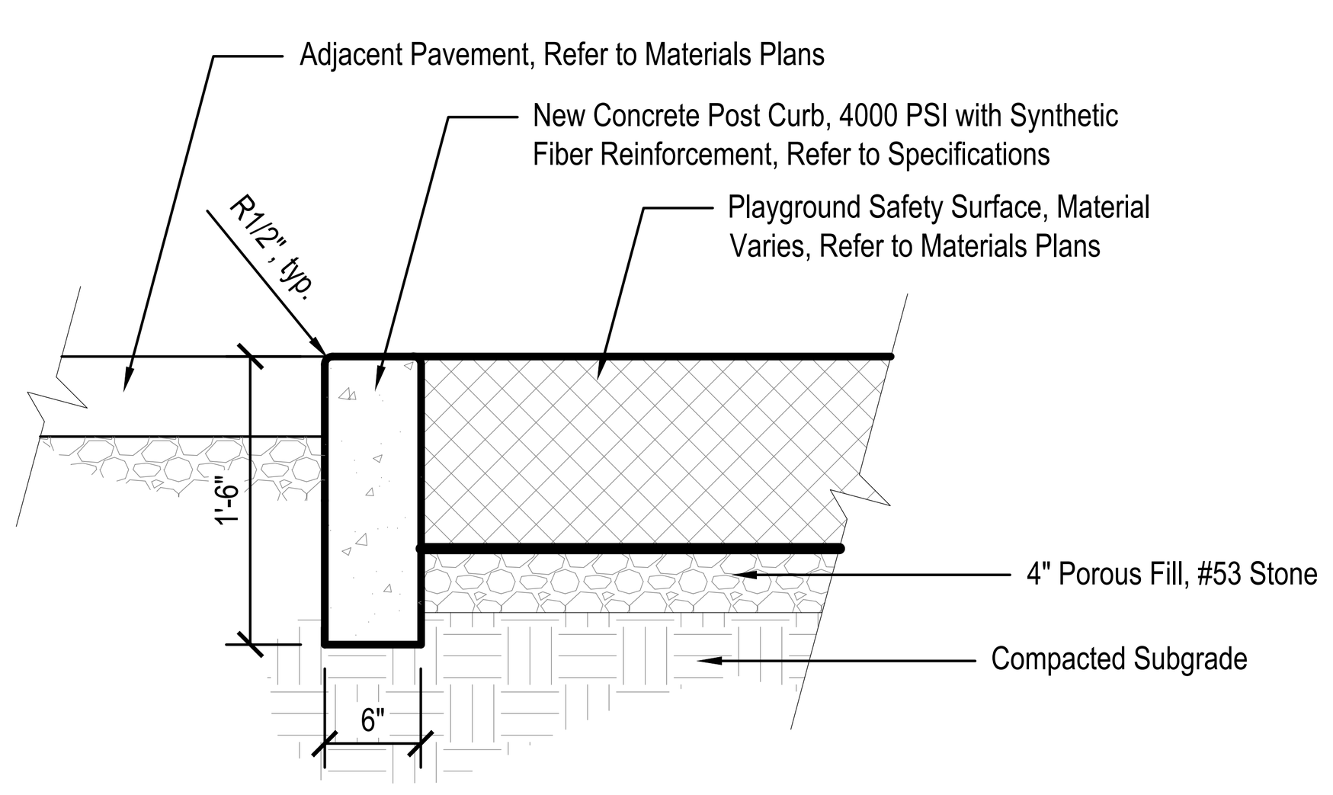
6 DOWELS IN CONCRETE AT THRESHOLD

Scale: 1"=1'-0"



3 MILL AND RESURFACE ASPHALT PAVEMENT

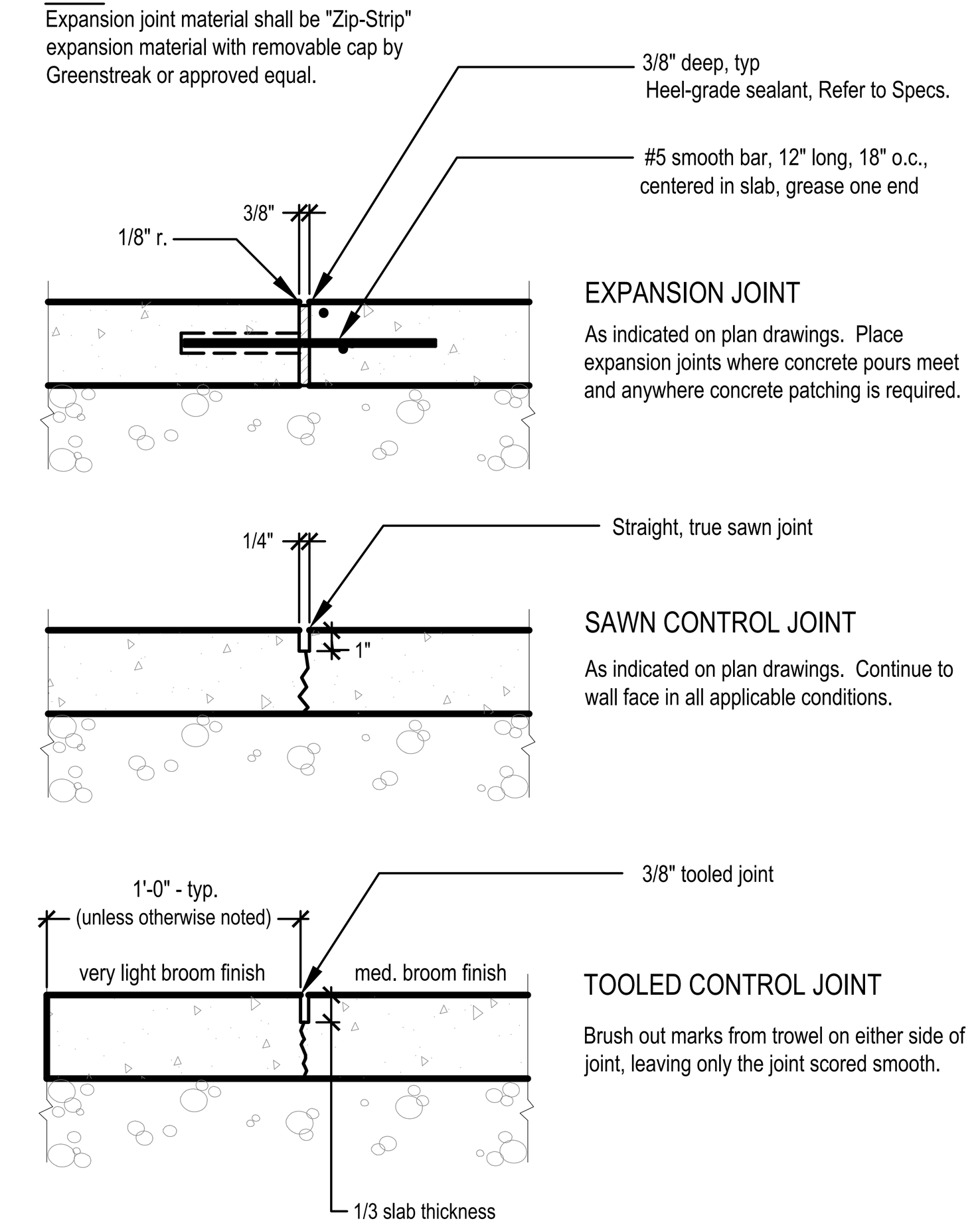
Not to Scale



9 POST CURB AT PLAY SURFACE

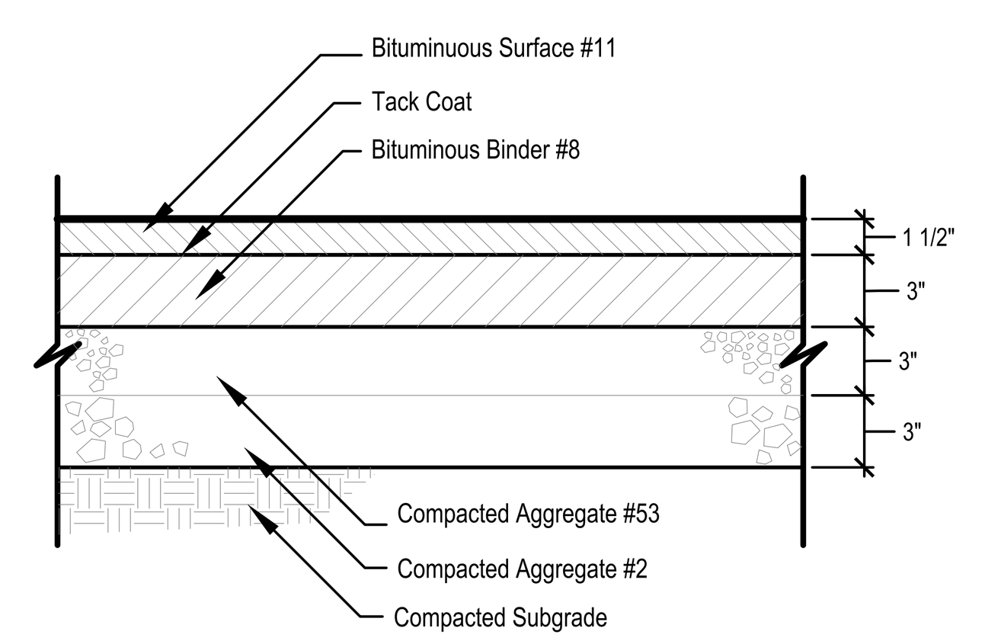
Scale: 1" = 1'-0"

NOTE:
Expansion joint material shall be "Zip-Strip" expansion material with removable cap by Greenstreak or approved equal.



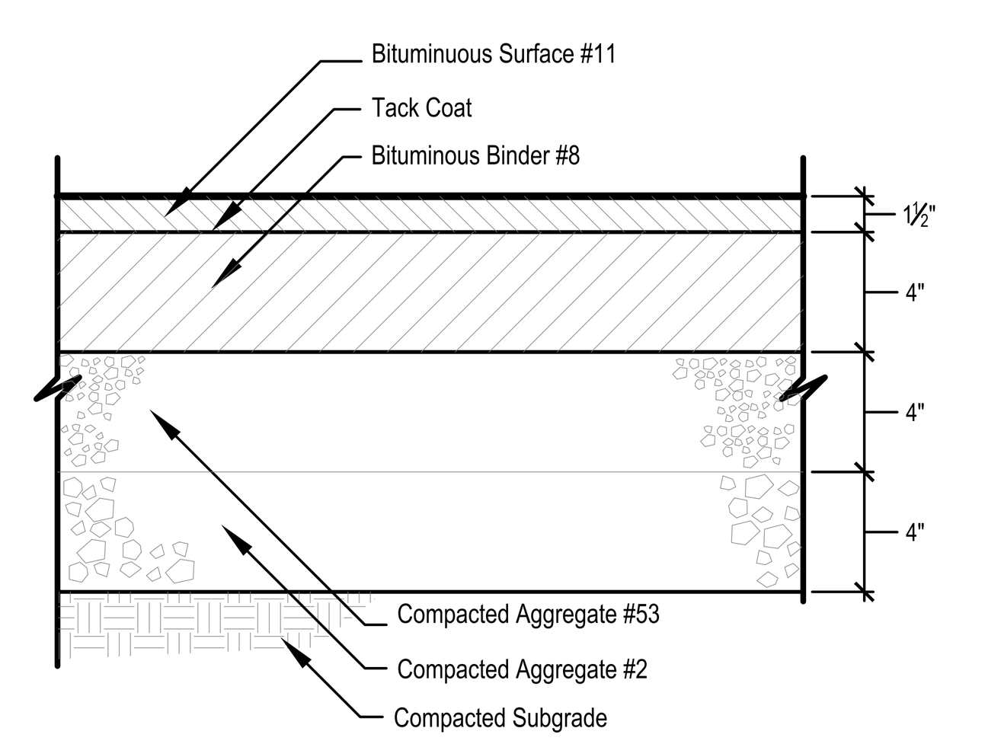
5 CONCRETE JOINTING

Not to Scale



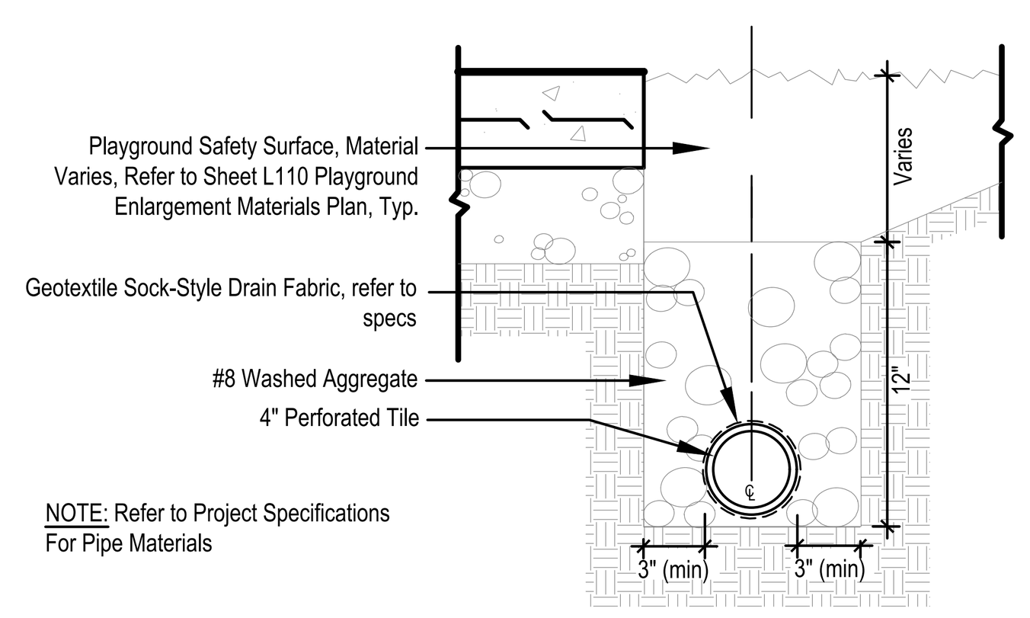
2 STANDARD ASPHALT PAVEMENT

Not to Scale



1 HEAVY-DUTY ASPHALT PAVEMENT

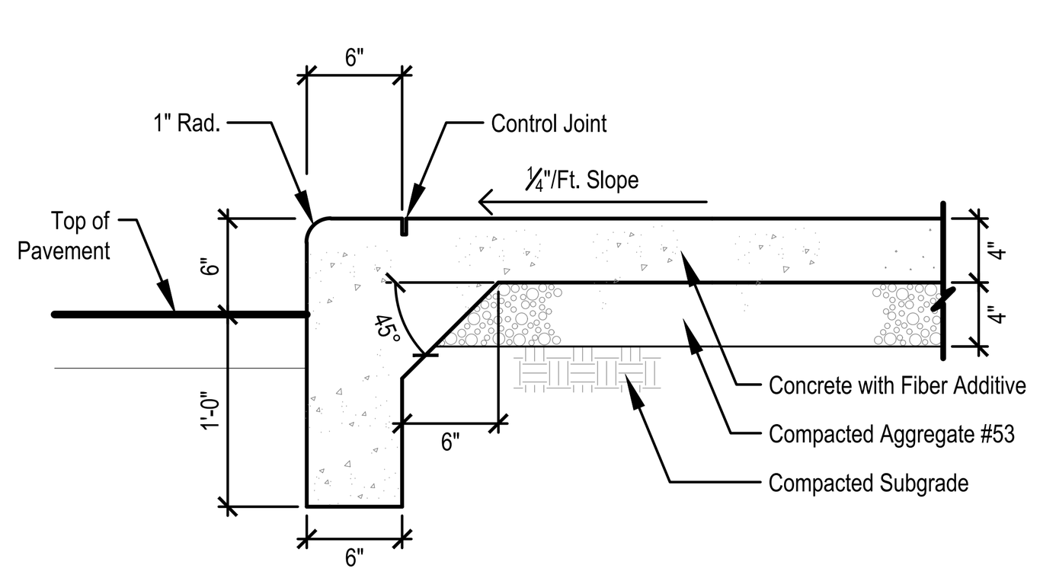
Not to Scale



NOTE: Refer to Project Specifications For Pipe Materials

12 PLAYGROUND UNDERDRAIN SECTION

Not to Scale



NOTES:
1. Curb shall have ½" expansion joints at 40'-0" max, control joints at 8'-0" max. unless otherwise noted.
2. Control joints shall be cut ¼" depth of total thickness of slab.
3. Fiber additive: Virgin nylon fibers, ¾" length, Nycon by Nycon Inc., or Forta Nylon by Forta Corporation, added at the batch plant at 1 lb. per cu. yd. of concrete.

8 INTEGRAL CONCRETE CURB & WALK

Scale: 1"=1'-0"

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context DESIGN
5825 Lawton Loop E. Dr. | Indianapolis, IN 46216
317-485-6900 | www.context-design.com

PROJECT:
MSD OF WARREN TOWNSHIP
PLEASANT RUN ELEMENTARY SCHOOL
RENOVATION & ADDITION
1800 N. FRANKLIN RD. INDIANAPOLIS, IN 46219

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

REVISIONS:
1 03-15-2021 Addendum 01
2 03-25-2021 Addendum 02

ISSUE DATE	DRAWN BY	CHECKED BY
02/26/2021	MA	CCH

DRAWING TITLE:
SITE DETAILS

CERTIFIED BY:
ALYSSA P. PRAZEAU REGISTERED No. 2020-0132 STATE OF INDIANA LANDSCAPE ARCHITECT
EXPIRES 12-31-2021

DRAWING NUMBER
L500

PROJECT NUMBER
2020061

NOTES:

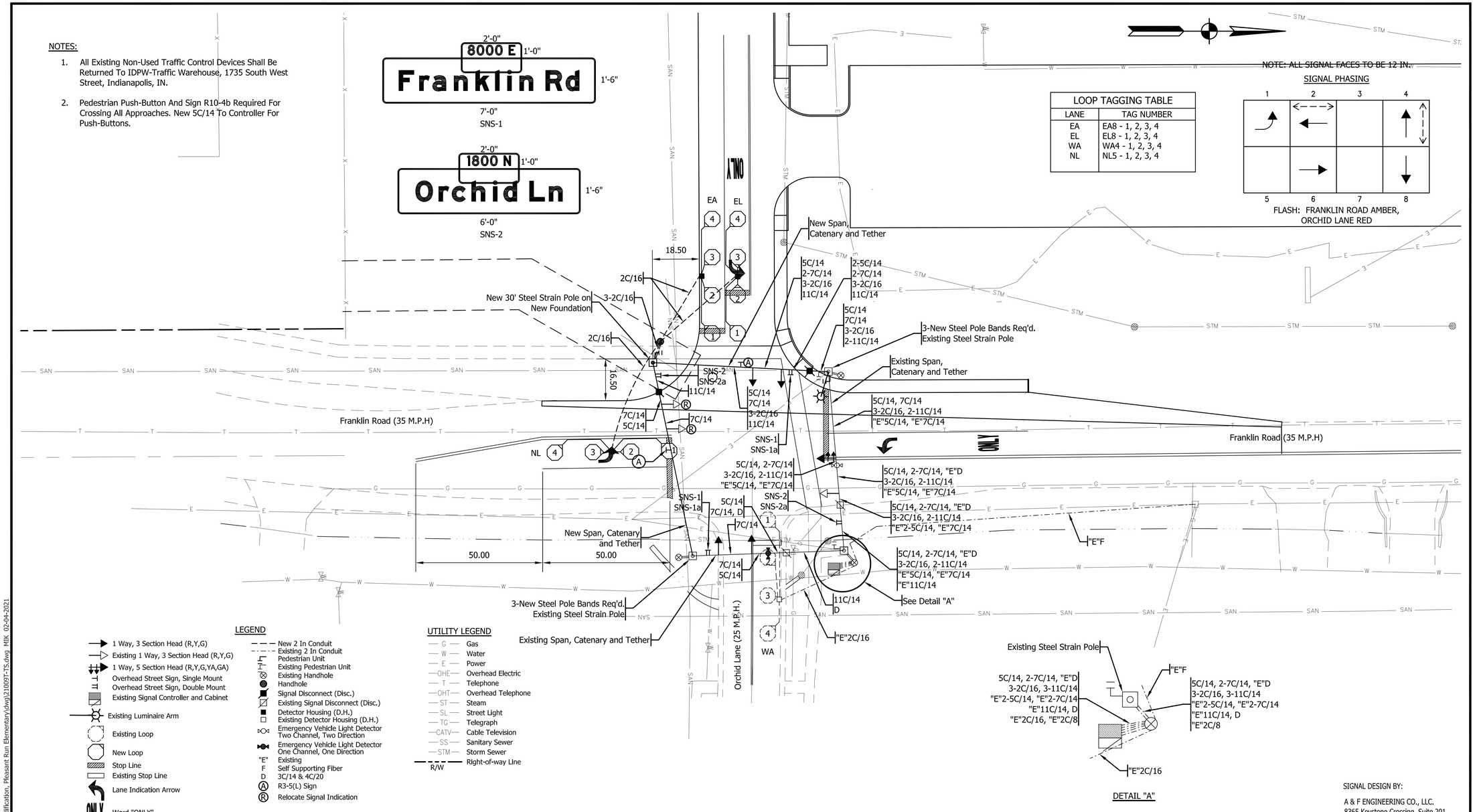
1. All Existing Non-Used Traffic Control Devices Shall Be Returned To IDPW-Traffic Warehouse, 1735 South West Street, Indianapolis, IN.
2. Pedestrian Push-Button And Sign R10-4b Required For Crossing All Approaches. New 5C/14 To Controller For Push-Buttons.

LOOP TAGGING TABLE	
LANE	TAG NUMBER
EA	EA8 - 1, 2, 3, 4
EL	EL8 - 1, 2, 3, 4
WA	WA4 - 1, 2, 3, 4
NL	NL5 - 1, 2, 3, 4

NOTE: ALL SIGNAL FACES TO BE 12 IN.

SIGNAL PHASING

FLASH: FRANKLIN ROAD AMBER, ORCHID LANE RED



DETAIL "A"

LEGEND

- 1 Way, 3 Section Head (R,Y,G)
- Existing 1 Way, 3 Section Head (R,Y,G)
- 1 Way, 5 Section Head (R,Y,G,YA,GA)
- Overhead Street Sign, Single Mount
- Overhead Street Sign, Double Mount
- Existing Signal Controller and Cabinet
- Existing Luminaire Arm
- Existing Loop
- New Loop
- Stop Line
- Existing Stop Line
- Lane Indication Arrow
- Word "ONLY"
- New 2 In Conduit
- Existing 2 In Conduit
- Pedestrian Unit
- Existing Pedestrian Unit
- Existing Handhole
- Handhole
- Signal Disconnect (Disc.)
- Existing Signal Disconnect (Disc.)
- Detector Housing (D.H.)
- Existing Detector Housing (D.H.)
- Emergency Vehicle Light Detector Two Channel, Two Direction
- Emergency Vehicle Light Detector One Channel, One Direction
- "E" Existing
- F Self Supporting Fiber
- D 3C/14 & 4C/20
- (A) R3-5(L) Sign
- (R) Relocate Signal Indication

UTILITY LEGEND

- G — Gas
- W — Water
- E — Power
- OHE — Overhead Electric
- T — Telephone
- OHT — Overhead Telephone
- ST — Steam
- SL — Street Light
- TG — Telegraph
- CATV — Cable Television
- SS — Sanitary Sewer
- STM — Storm Sewer
- R/W — Right-of-way Line

DATE	REMARKS
REVISIONS	

INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD SPECIFICATIONS DATED 2020, INDOT SUPPLEMENTAL SPECIFICATIONS AND THE CITY OF INDIANAPOLIS' SUPPLEMENTAL SPECIFICATIONS TO BE USED WITH THESE PLANS.

SIGNAL DESIGN BY:

A & F ENGINEERING CO., LLC.
8365 Keystone Crossing, Suite 201
INDIANAPOLIS, IN 46240
(317) 202-0864

DEPARTMENT OF PUBLIC WORKS
CITY OF INDIANAPOLIS

DESIGN ENGINEER — DATE: 02-10-2021

JOSEPH T. RENGEL
REGISTERED
No.10302408
STATE OF INDIANA
PROFESSIONAL ENGINEER

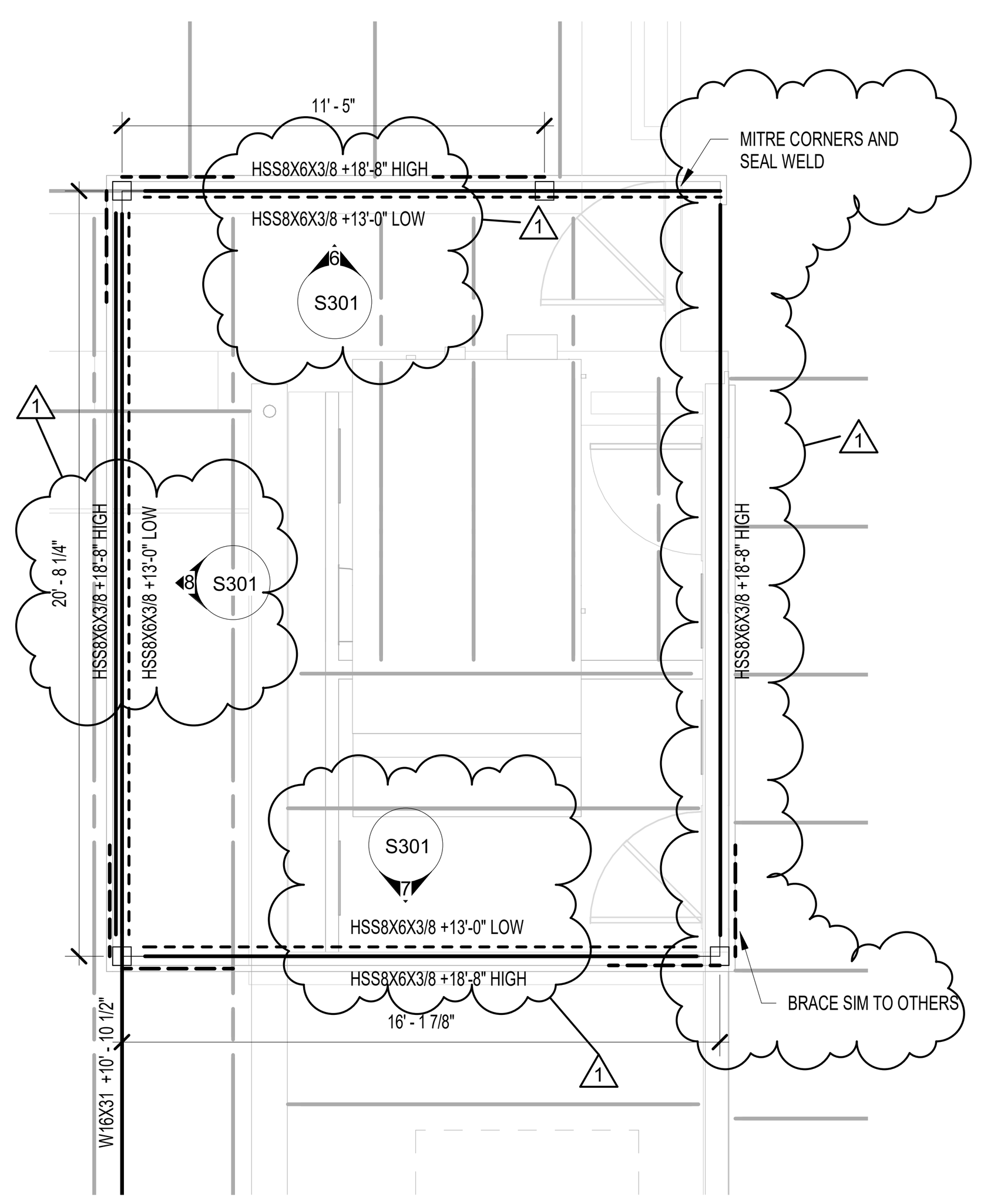
TRAFFIC SIGNAL MODERNIZATION
N FRANKLIN ROAD & ORCHID LANE
INTERSECTION CONTROL # 004620

CONTRACT NO.

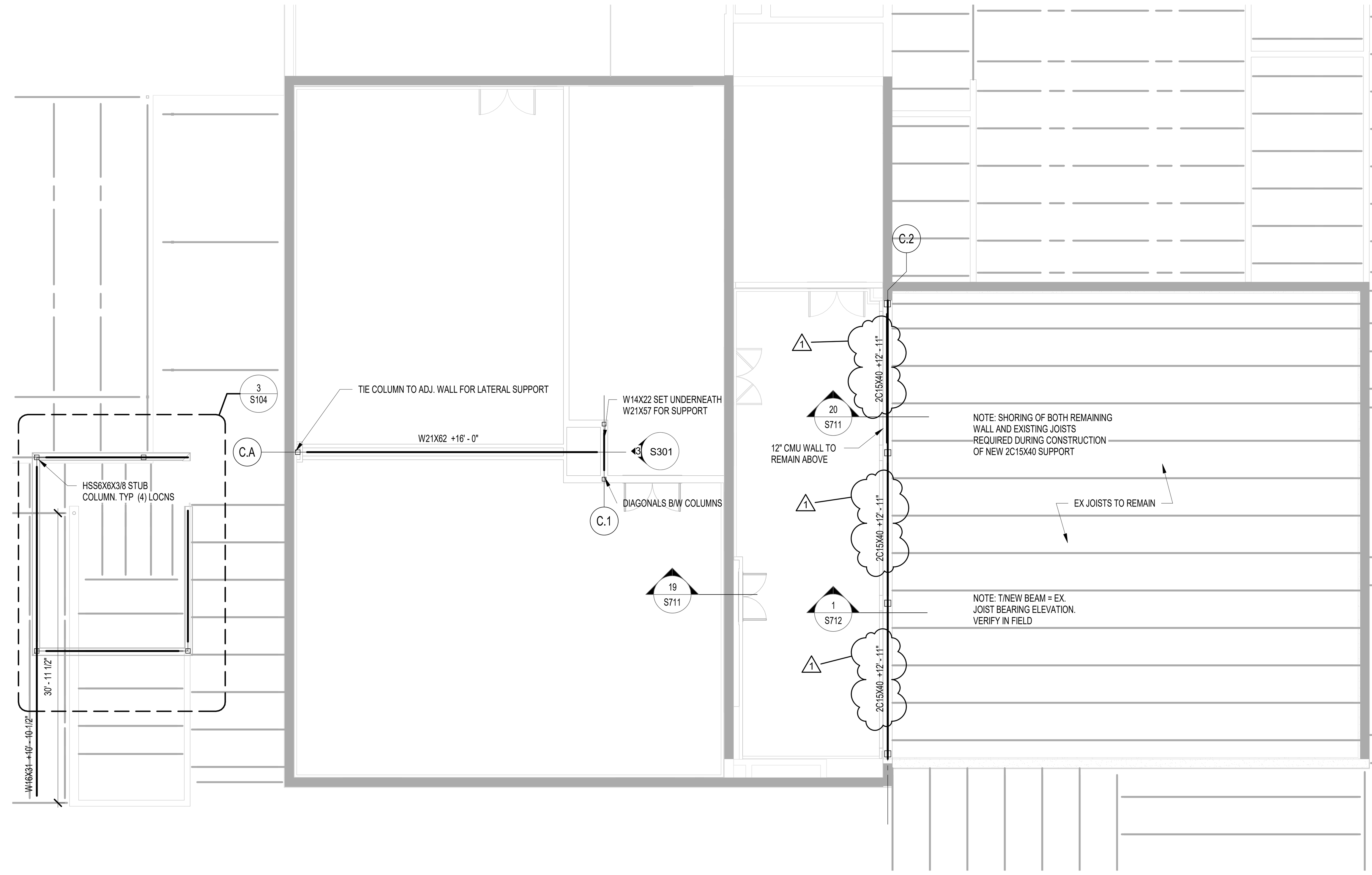
SCALE: 1"= 20'

DES. NO.	PROJECT NO.	YEAR	SHEET	TOTAL
		2021	1	1

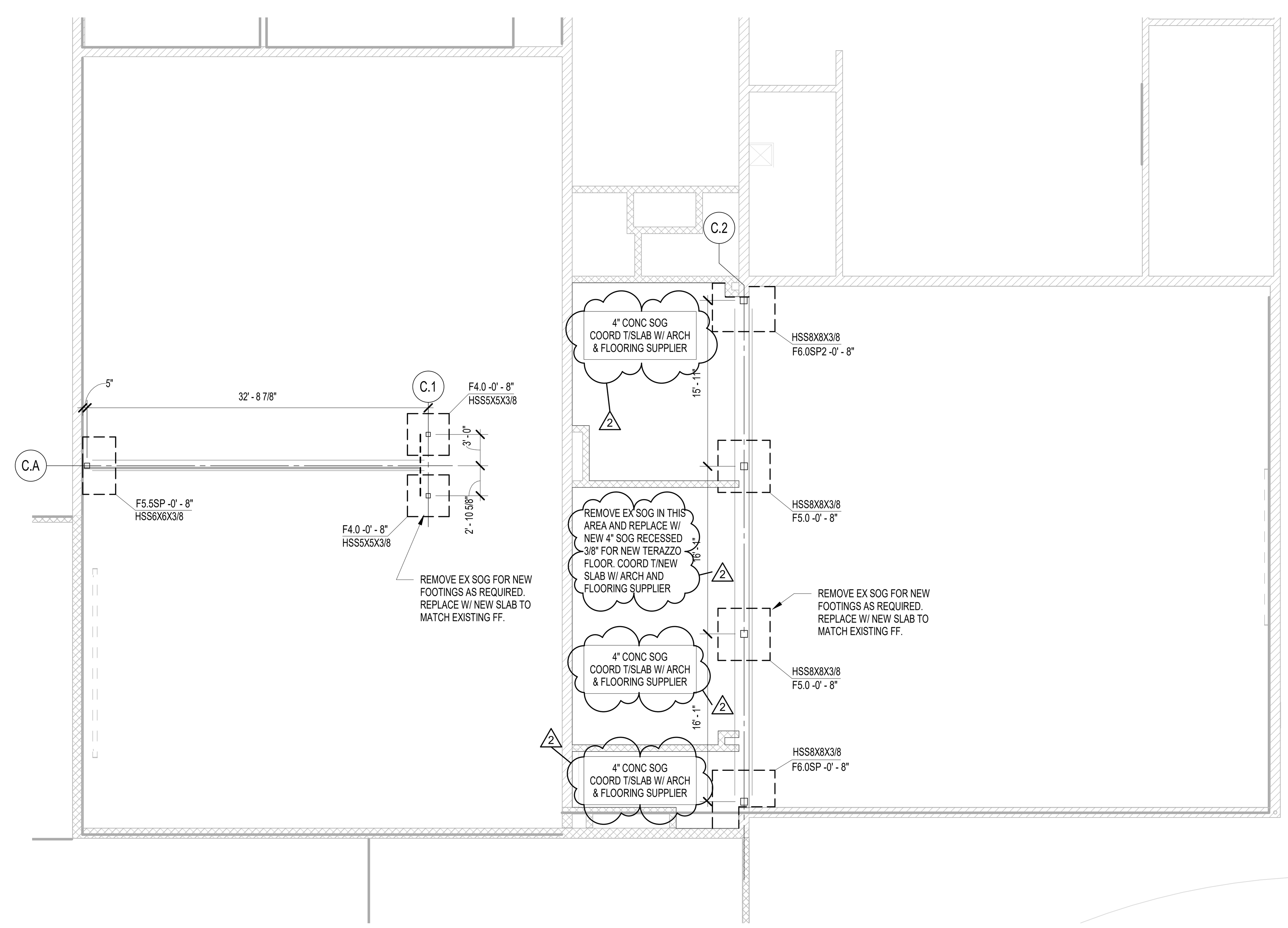
Z:\2021\21009T-ZJ\2021\21009T-Context, Traffic Signal Modification, Pleasant Run Elementary\dwg\21009T-TS.dwg, MIK 02-04-2021



3 CAFE AREA FRAMING PLAN - CALLOUT
1/4" = 1'-0"



2 CAFE NEW FRAMING PLAN
1/8" = 1'-0"



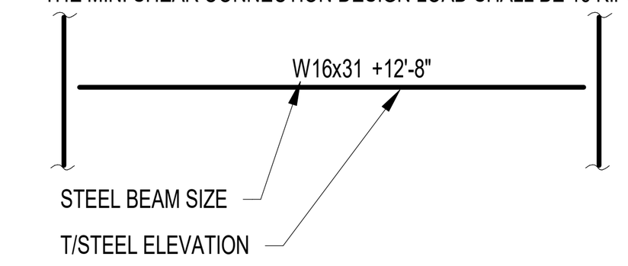
1 CAFE FOUNDATION PLAN
1/8" = 1'-0"

FRAMING PLAN NOTES

1. REF. S001 & S002 FOR STRUCTURAL NOTES, DESIGN DATA, SCHEDULES & LEGENDS.
2. REF. THE S400 SERIES FOR TYPICAL FRAMING AND MASONRY DETAILS.
3. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELECTRICAL, AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NOT BE INDICATED.
4. ALL ELEVATIONS ARE REFERENCED FROM THE EXISTING FIRST FLOOR FIN. FLOOR ELEVATION +0'-0" (ASSUMED TO BE USGS 876.50, VERIFY ELEVATION WITH CIVIL DWGS)
5. ALL WALLS SHALL BE LAID OUT FROM THE ARCHITECTURAL DRAWINGS.
6. REF. ARCH. DRAWINGS. FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
7. COORDINATE EXACT SIZE & LOCATION OF ANY MECHANICAL OPENINGS IN FLOOR SLAB, ROOF DECK, OR WALLS WITH THE MEP CONTRACTOR(S). LOCATION & SIZE OF ALL DUCT OPENINGS, GRILLES, ETC. SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
8. ALL ELEVATIONS SHOWN ON PLAN INDICATE TOP OF STEEL BEAM UNLESS NOTED OTHERWISE.
9. PROVIDE CHANNEL FRAMES AT ALL SUPPORTED SLAB OPENINGS PER TYPICAL DETAIL 7/S404. COORDINATE EXACT NUMBER, LOCATIONS & DIMENSIONS WITH THE APPROPRIATE CONTRACTORS & THE ARCH. & MEP DRAWINGS.
10. PROVIDE FRAMES AT ALL ROOF DRAINS, ROOF HATCHES & OTHER ROOF OPENINGS PER TYPICAL DETAILS ON S404. COORD. EXACT NUMBER, LOCATIONS & DIMENSIONS WITH THE APPROPRIATE CONTRACTORS & THE ARCH. & MEP DWGS.
11. PROVIDE CMU REINFORCING AS NOTED ON PLANS & SECTIONS. IF NOT SHOWN ELSEWHERE, MINIMUM CMU WALL REINFORCING TO BE AS FOLLOWS: 8" CMU: #5 VERTS @ 48" OC, 12" CMU: #6 VERTS @ 32" OC. PROVIDE OPEN-CORE BOND BEAMS AT TOPS OF WALLS, AT CHANGES IN CMU THICKNESS, AND WHERE INDICATED ON PLANS & SECTIONS (10'-0" OC MAX VERTICAL SPACING). PROVIDE 1/2 OF INTERRUPTED VERTICALS AT JAMBS OF OPENINGS AND PROVIDE ADDITIONAL VERT'S. AT ENDS OF WALLS.
12. ALL MASONRY BOND BEAMS, OTHER THAN BOND BEAM LINTELS OVER OPENINGS, SHALL BE "OPEN-CORE" BOND BEAMS TO ALLOW VERTICAL REINFORCING TO PASS THROUGH, UNLESS NOTED OTHERWISE.
13. REF. ARCH. DWGS. FOR MASONRY CONTROL & EXPANSION JOINT LOCATIONS.
14. ALL HORIZONTAL AND DIAGONAL BRIDGING FOR STEEL JOISTS SHALL BE DESIGNED, LOCATED & PROVIDED BY THE JOIST SUPPLIER PER SJI SPECIFICATIONS.
15. FOR ESTIMATING AND BIDDING PURPOSES ONLY, ASSUME AN ADDITIONAL 1/2" THICKNESS OF CONCRETE WILL BE NECESSARY FOR ALL ELEVATED SLABS ON METAL DECK. THE INTENT OF THIS REQUIREMENT IS TO ACCOUNT FOR ANTICIPATED DEAD LOAD DEFLECTIONS IN THE SUPPORTING STRUCTURE. THE FINISHED SLAB SHALL MEET THE FLATNESS REQUIREMENTS DEFINED IN THE SPECIFICATION.
16. PLAN LEGEND:

FF	DENOTES FIN. FLOOR
T/'X'	DENOTES TOP OF STEEL, SLAB, ETC.
B/'X'	DENOTES BOTTOM OF LINTEL, ETC.
SE	DENOTES SLAB EDGE DIMENSION MEASURED FROM BEAM OR COLUMN CENTERLINE
DE	DENOTES DECK EDGE ANGLE DIMENSION MEASURED FROM BEAM OR COLUMN CENTERLINE
F	DENOTES 1½", 20 GA. GALVANIZED COMPOSITE DECK w/ 3½" NW CONC SLAB w/ 6x6-W2.1xW2.1 WWF, TOTAL 't' = 5". REF. DETAIL 9/S403.
R1	DENOTES 1½", 20 GA. GALV. & PRIME-PAINTED WIDE RIB STEEL ROOF DECK. REF. DETAIL 1/S403.
	DENOTES BEAM-TO-COLUMN MOMENT CONNECTION. REF. DETAILS ON S403.
	DENOTES BEAM-THRU-BEAM MOMENT CONNECTION. REF. DETAILS ON S403.
	DENOTES BRACED FRAME OR KICKER LOCATION
	DENOTES APPROX. LOCATION OF OPENING IN DECK/SLAB. REF. DETAILS ON S403 FOR TYPICAL OPENING FRAMES.

17. WIDE-FLANGE BEAM & GIRDER NOTATION:
REF. THE STEEL CONNECTION NOTES ON S001 FOR DESIGN OF CONNECTIONS AT BEAMS & GIRDERS WITH NO REACTION SHOWN. THE MIN. SHEAR CONNECTION DESIGN LOAD SHALL BE 15 KIPS.

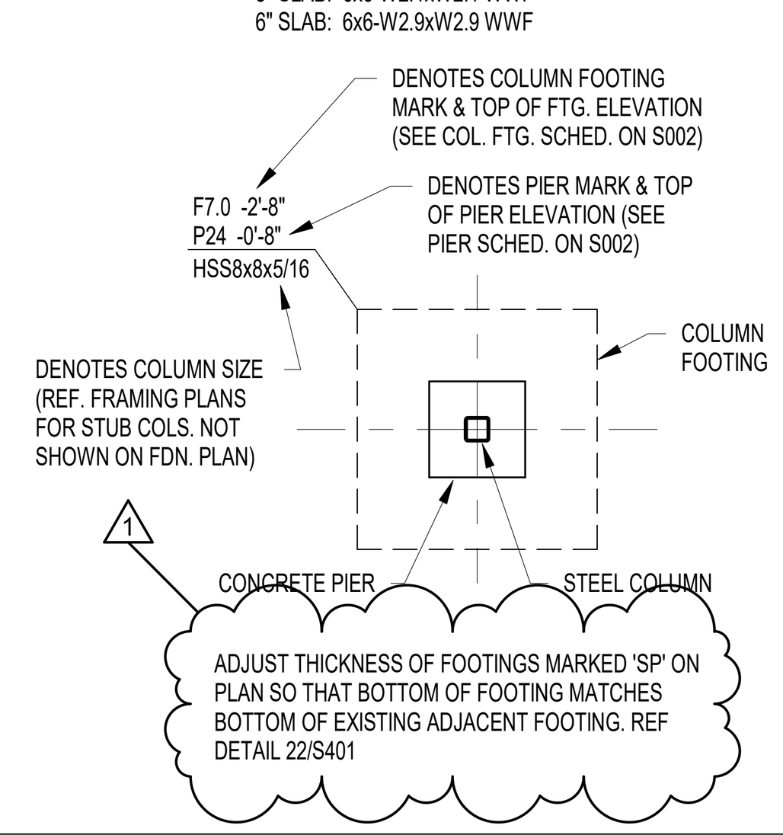


TYPICAL BEAM DIAGRAM

FOUNDATION PLAN NOTES

1. REF. S001 & S002 FOR STRUCTURAL NOTES, DESIGN DATA, SCHEDULES & LEGENDS.
2. REF. THE S400 SERIES FOR TYPICAL FOUNDATION AND MASONRY DETAILS.
3. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELECTRICAL, AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NOT BE INDICATED.
4. ALL ELEVATIONS ARE REFERENCED FROM THE EXISTING FIRST FLOOR FIN. FLOOR ELEVATION +0'-0" (ASSUMED TO BE USGS 876.50, VERIFY ELEVATION WITH CIVIL DWGS)
5. ALL WALLS SHALL BE LAID OUT FROM THE ARCHITECTURAL DRAWINGS.
6. REF. ARCH. DRAWINGS. FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
7. COORDINATE EXACT SIZE & LOCATION OF ALL MECHANICAL OPENINGS IN FDN. WALLS WITH THE MECHANICAL, ELECTRICAL & PLUMBING CONTRACTORS.
8. NOTE: PERIMETER FOOTINGS SHALL BE LOWERED AND/OR SLEEVED TO PASS BELOW PLUMBING LINES (E.G., SANITARY & STORM LINES, WATER LINES, ETC.) SHOWN ON THE PLUMBING DRAWINGS. PROVIDE FOOTING STEPS AS REQUIRED PER THE TYPICAL DETAILS ON S401.
9. ALL SLAB RECESSES SHALL BE LOCATED PER THE ARCHITECTURAL DRAWINGS. COORDINATE DEPTHS OF ALL SLAB RECESSES WITH THE ARCHITECTURAL DRAWINGS AND/OR THE FLOORING SUPPLIER.
10. PROVIDE CMU REINFORCING AS NOTED ON PLANS & SECTIONS. IF NOT SHOWN ELSEWHERE, MINIMUM CMU WALL REINFORCING TO BE AS FOLLOWS: 8" CMU: #5 VERTS @ 48" OC, 12" CMU: #6 VERTS @ 32" OC. PROVIDE OPEN-CORE BOND BEAMS AT TOPS OF WALLS, AT CHANGES IN CMU THICKNESS, AND WHERE INDICATED ON PLANS & SECTIONS (10'-0" OC MAX VERTICAL SPACING). PROVIDE 1/2 OF INTERRUPTED VERTICALS AT JAMBS OF OPENINGS AND PROVIDE ADDITIONAL VERT'S. AT ENDS OF WALLS.
11. COORDINATE REINFORCING DOWELS FOR CMU VERTICAL REINFORCING WITH REINF. NOTED ON PLANS & SECTIONS.
12. GROUT ALL CORES OF CMU SOLID BELOW FIN. FLOOR ELEVATION.
13. PROVIDE THICKENED SLAB UNDER ALL INTERIOR CMU WALLS WITHOUT FOOTINGS. SEE S401 FOR THICKENED SLAB DETAIL. REF. THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF CMU WALLS.
14. ALL FOOTINGS SHALL BEAR ON APPROVED SOIL. UNDERCUT AS REQ'D. TO SUITABLE BEARING MATERIAL AS DETERMINED BY THE GEOTECHNICAL TESTING AGENCY. REF. TYPICAL FOOTING UNDERCUT DETAILS ON S402.
15. PROVIDE CONTROL/CONTRACTION JOINTS IN SLABS ON GRADE (REF. TYPICAL DETAILS ON S401). ALL JOINTS IN SLABS TO RECEIVE THIN OR THICK-SET TERRAZZO, CERAMIC OR PORCELAIN TILE, VINYL-COMPOSITION TILE (VCT) OR VINYL SHEET GOODS, EPOXY OR SIMILAR THIN-FILM FINISH FLOORING SHALL BE CAREFULLY COORDINATED WITH THE FLOORING CONTRACTOR. THE CONTRACTOR SHALL SUBMIT SLAB JOINT LAYOUT TO ARCHITECT/ENGINEER FOR REVIEW PRIOR TO PLACING SLABS.
16. EARTH-FORMED FOOTINGS ARE ACCEPTABLE WHERE SOIL CONDITIONS PERMIT (I.E. WHERE THE BANKS OF THE EXCAVATION WILL HOLD WITHOUT CAVING AND SLOUGHING). HOWEVER, THE PLAN DIMENSION OF EARTH- FORMED FOOTINGS MUST BE INCREASED BY 2" ALONG ALL EDGES TO ACCOUNT FOR INACCURACIES ASSOCIATED WITH EARTH-FORMING (I.E. 2'-0" WIDE WALL FOOTINGS SHALL BE 2'-4" WIDE AND 5'-0" SQUARE COLUMN FOOTINGS SHALL BE 5'-4" SQUARE).
17. REF. ARCHITECTURAL DWGS. FOR MASONRY CONTROL & EXPANSION JOINT LOCATIONS.
18. PLAN LEGEND:

FF	DENOTES FIN. FLOOR
T/'X'	DENOTES TOP OF FTG, SLAB, PIER, ETC.
B/'X'	DENOTES BOTTOM OF FTG, GRADE BEAM, ETC.
CJ	DENOTES SLAB ON GRADE CONTROL/CONTRACTION JOINT
WF24 -2'-8"	DENOTES WALL FOOTING MARK & TOP OF FOOTING ELEVATION (REF. WALL FTG SCHEDULE)
	DENOTES WALL FOOTING WITH STEPS. REF. TYP. DETAIL ON S401
	DENOTES CMU FOUNDATION WALL
	DENOTES CMU FDN. WALL HELD DOWN AT OPENINGS
	DENOTES THICKENED SLAB UNDER INTERIOR NON-LOAD BEARING CMU WALLS
4" CONC. SOG T/SLAB +0'-0"	DENOTES SLAB ON GRADE THICKNESS & T/SLAB ELEVATION. ALL SLABS ON GRADE TO BE PLACED ON 6" MIN. COMPACTED GRANULAR FILL & VAPOR BARRIER/RETARDER PER SPECS. PROVIDE THE FOLLOWING WELDED WIRE FABRIC REINFORCING: 4" SLAB: 6x6-W1.4xW1.4 WWF; 5" SLAB: 6x6-W2.1xW2.1 WWF; 6" SLAB: 6x6-W2.9xW2.9 WWF



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

Lynch, Harrison & Brumleve, Inc.
550 Virginia Avenue
Indianapolis, IN 46203
P 317.423.1550
F 317.423.1551

PROJECT:
MSD OF WARREN TOWNSHIP
PLEASANT RUN ELEMENTARY SCHOOL
RENOVATION & ADDITION
1800 N. FRANKLIN RD. INDIANAPOLIS, IN 46219

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

REVISIONS:

1	ADDENDUM 1	3/15/21
2	ADDENDUM 2	3/24/21

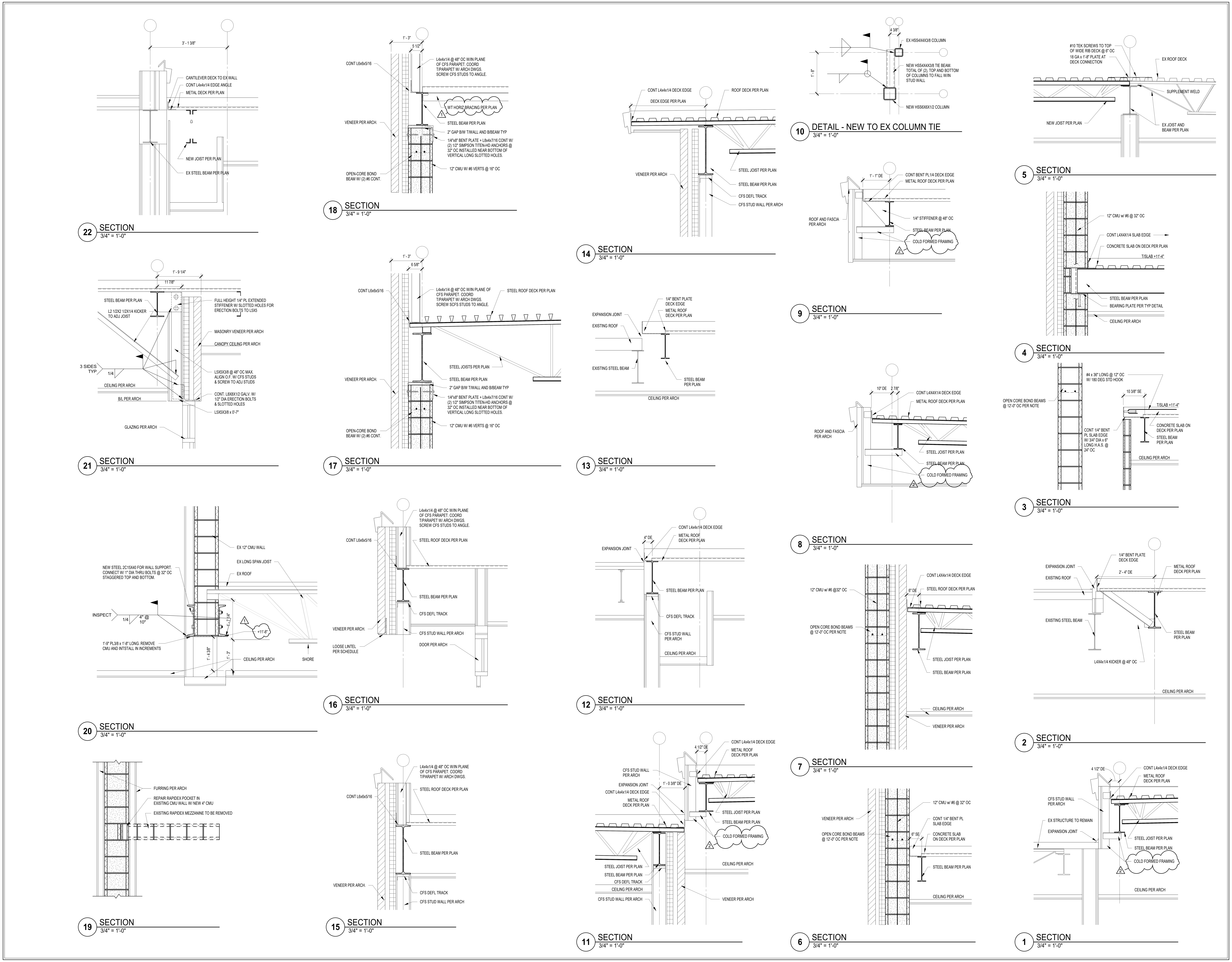
ISSUE DATE	DRAWN BY	CHECKED BY
02/26/2021	JAW	MDL

DRAWING TITLE:
CAFE FOUNDATION AND FRAMING PLANS

CERTIFIED BY:

DRAWING NUMBER
S104

PROJECT NUMBER
2020061



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1	ADDENDUM 1	3/15/21
2	ADDENDUM 2	3/24/21

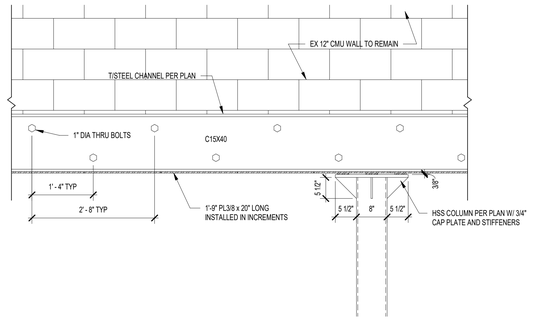
ISSUE DATE	DRAWN BY	CHECKED BY
02/26/2021	JAW	MDL

DRAWING TITLE:
FRAMING SECTIONS AND DETAILS

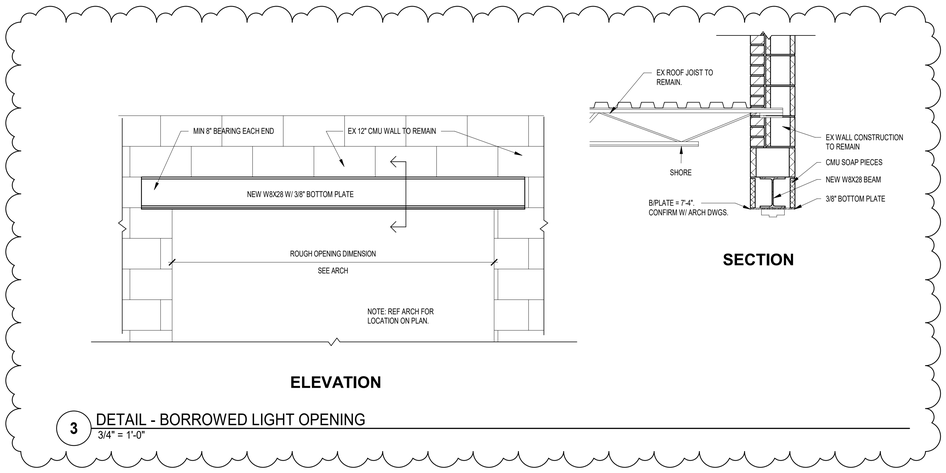
CERTIFIED BY:
MARK D. LaVIER
REGISTERED
PE19400114
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWING NUMBER
S711

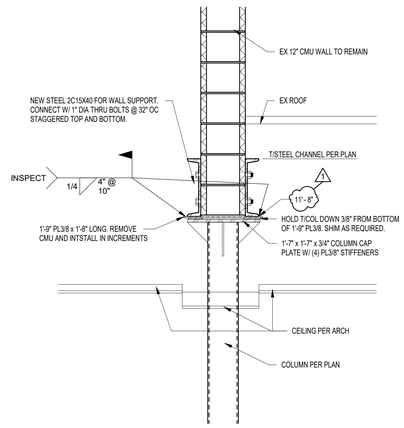
PROJECT NUMBER
2020061



2 DETAIL - DOUBLE CHANNEL ELEVATION
3/4" = 1'-0"



3 DETAIL - BORROWED LIGHT OPENING
3/4" = 1'-0"



1 SECTION
3/4" = 1'-0"

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LHB Lynch, Harrison & Brumleve, Inc.
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PROJECT:
MSD OF WARREN TOWNSHIP
PLEASANT RUN ELEMENTARY SCHOOL
RENOVATION & ADDITION
1800 N. FRANKLIN RD. INDIANAPOLIS, IN 46219

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REVISIONS:

1	ADDENDUM 1	3/15/21
2	ADDENDUM 2	3/24/21

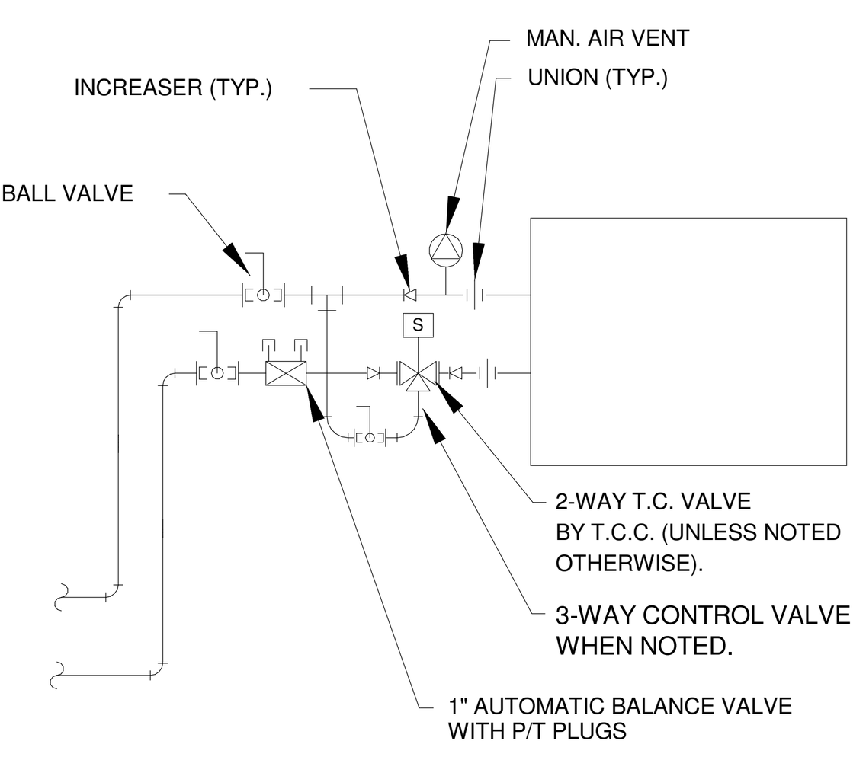
ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	JAW	MDL

DRAWING TITLE:
FRAMING SECTIONS AND DETAILS

CERTIFIED BY:
MARK D. LAVIER
REGISTERED
PE19400014
STATE OF
INDIANA
PROFESSIONAL ENGINEER

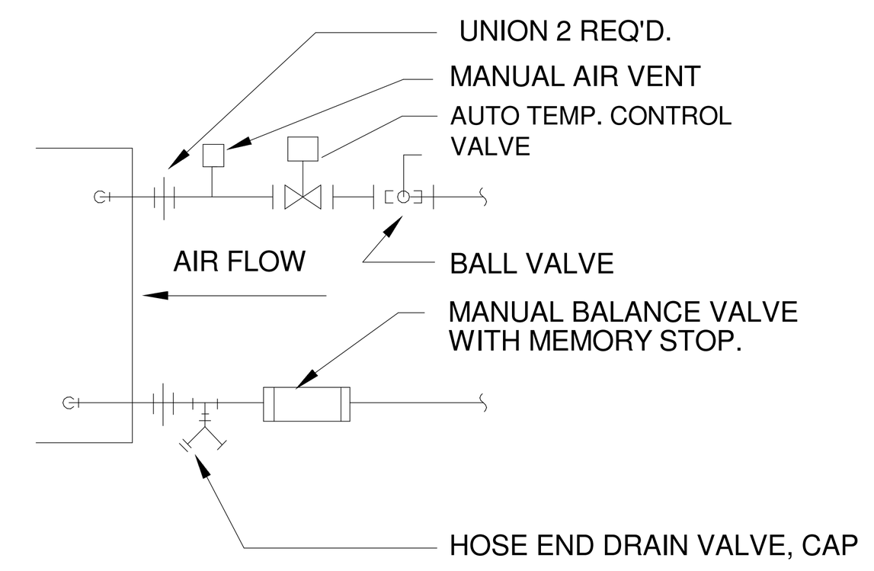
DRAWING NUMBER
S712

PROJECT NUMBER
2020061



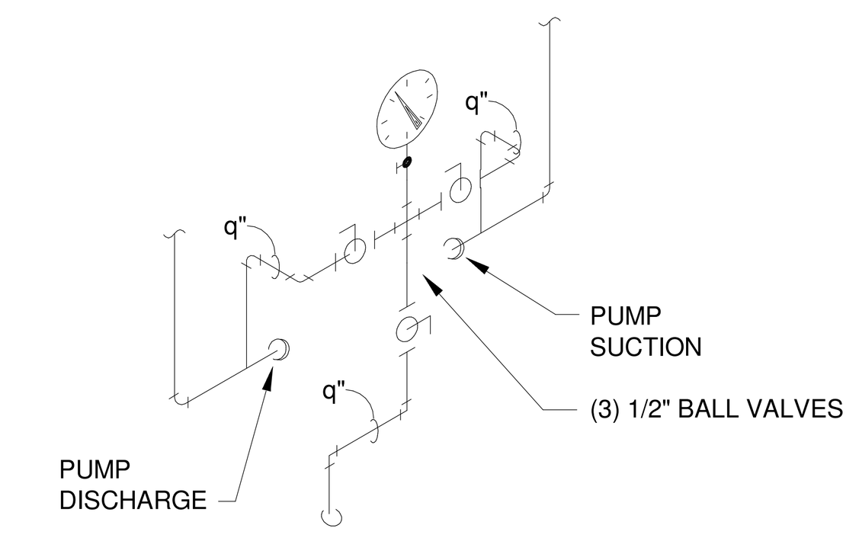
TYPICAL FAN COIL UNIT HEATING/ CHILLED WATER COIL PIPING DETAIL

NO SCALE



UNIT HEATER AND CABINET UNIT HTR. PIPING DETAIL

NO SCALE



TYP. PUMP PRESSURE GAUGE DETAIL

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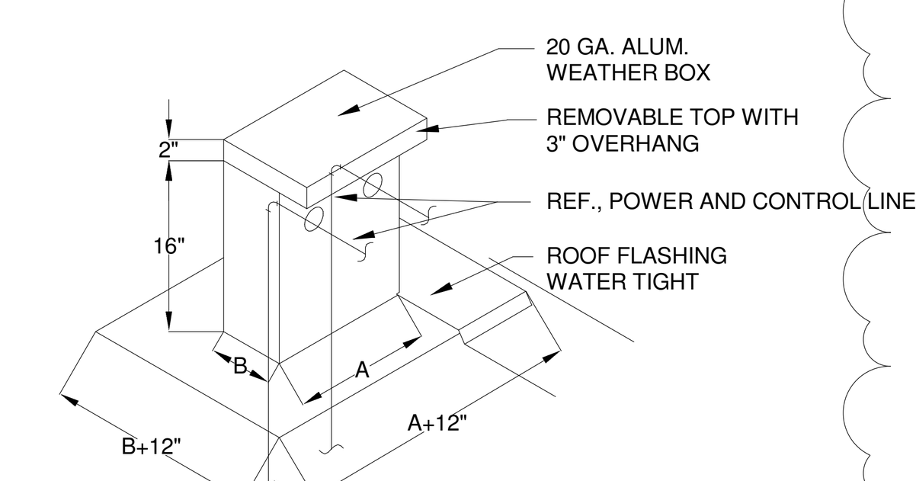
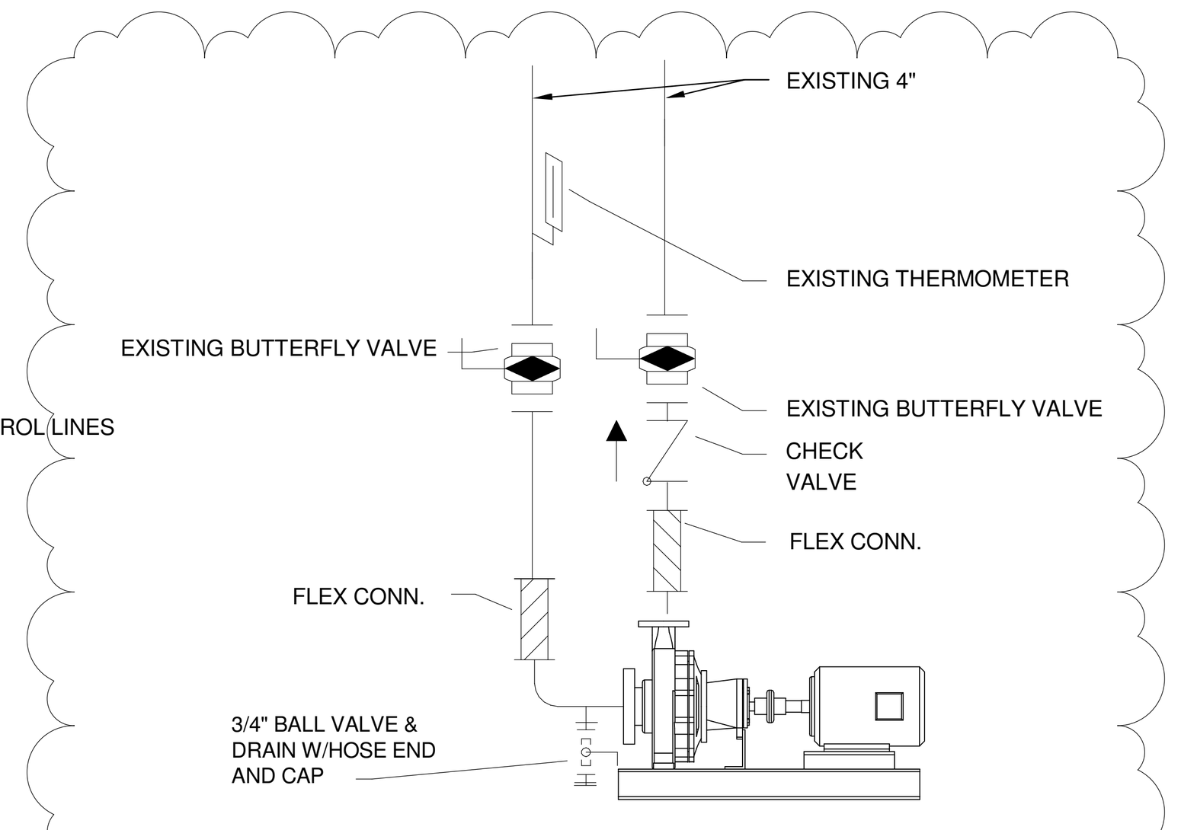


REF. LINE WEATHER BOX

NO SCALE



TYPICAL PUMP DETAIL

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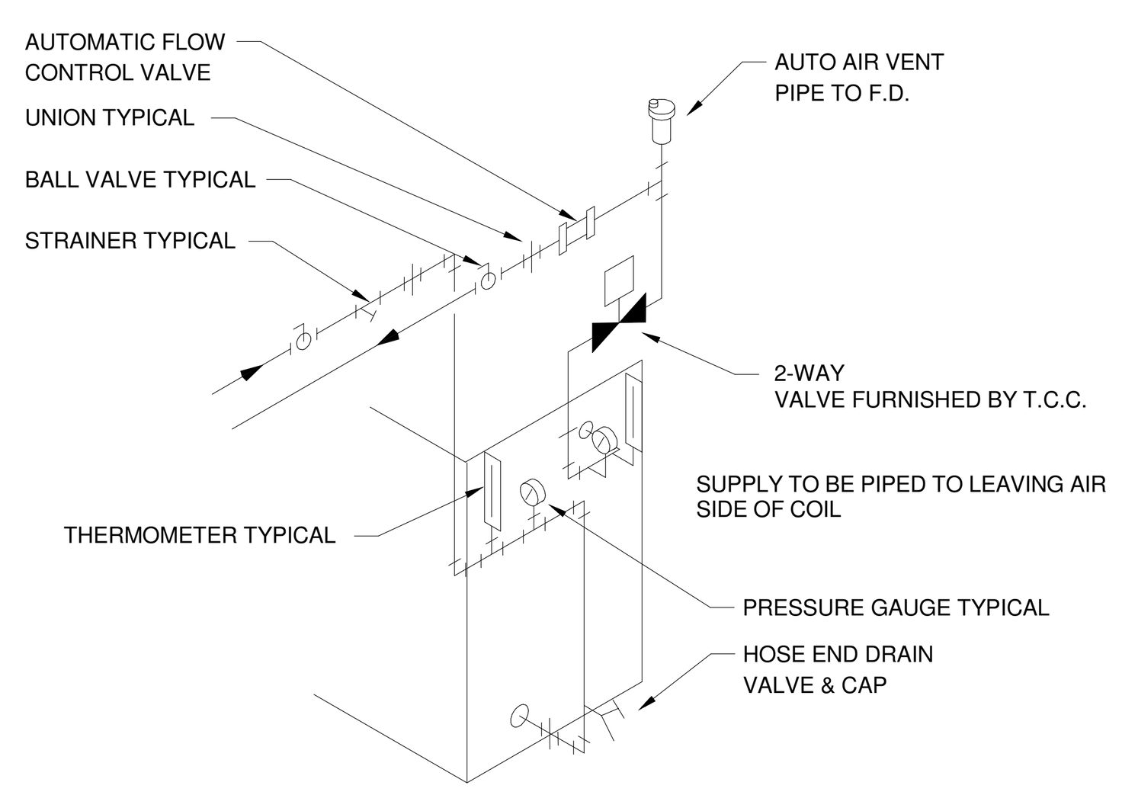
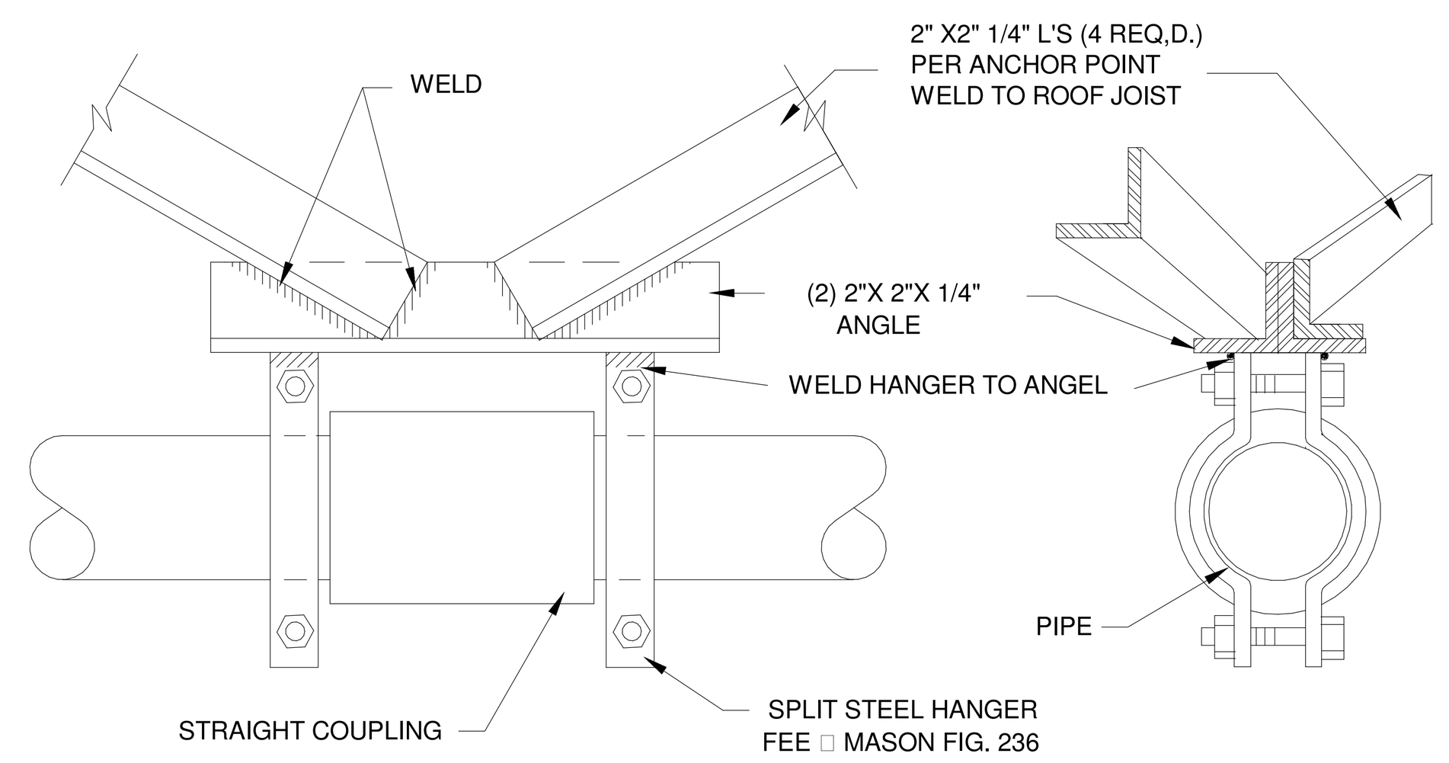


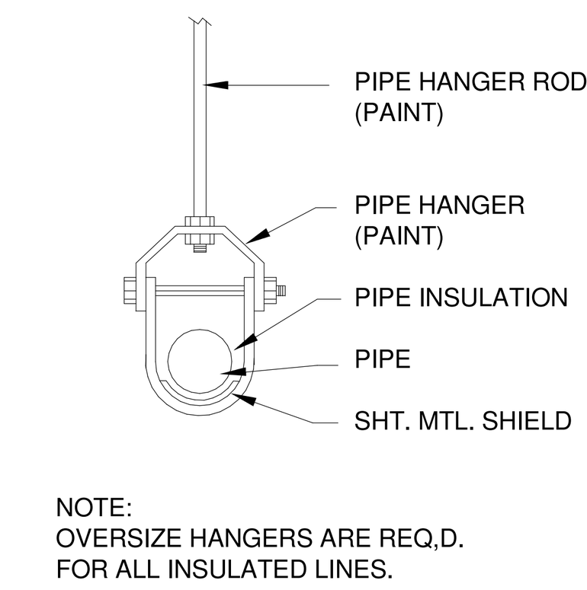
AHU HEATING/COOLING COIL PIPING DETAIL

NO SCALE



PIPE ANCHOR DETAIL

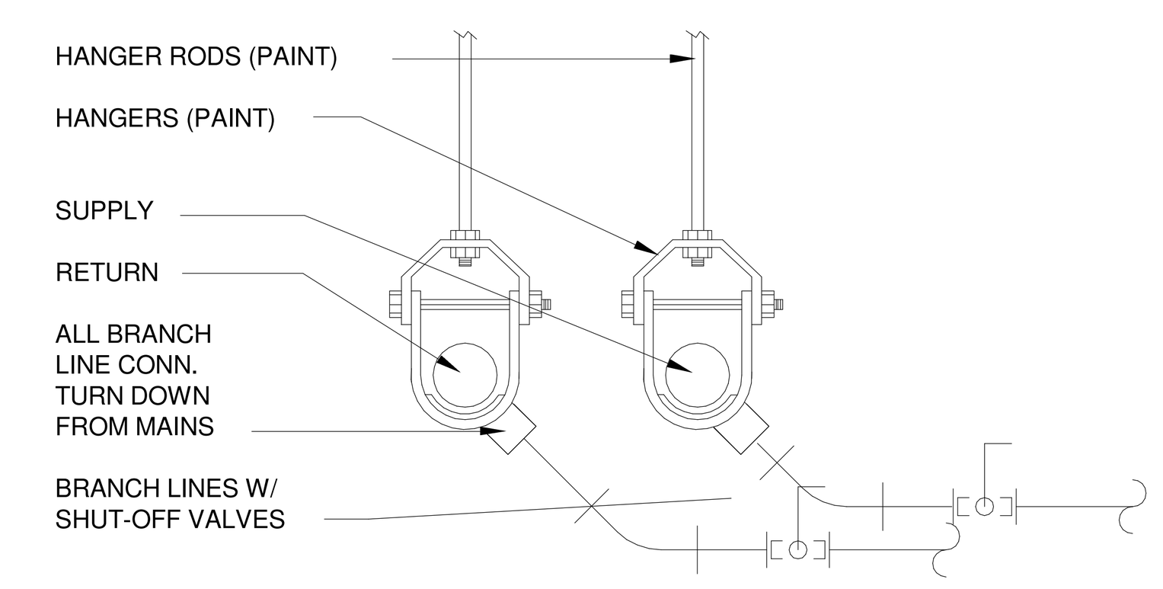
NO SCALE



NOTE:
OVERSIZE HANGERS ARE REQ.D.
FOR ALL INSULATED LINES.

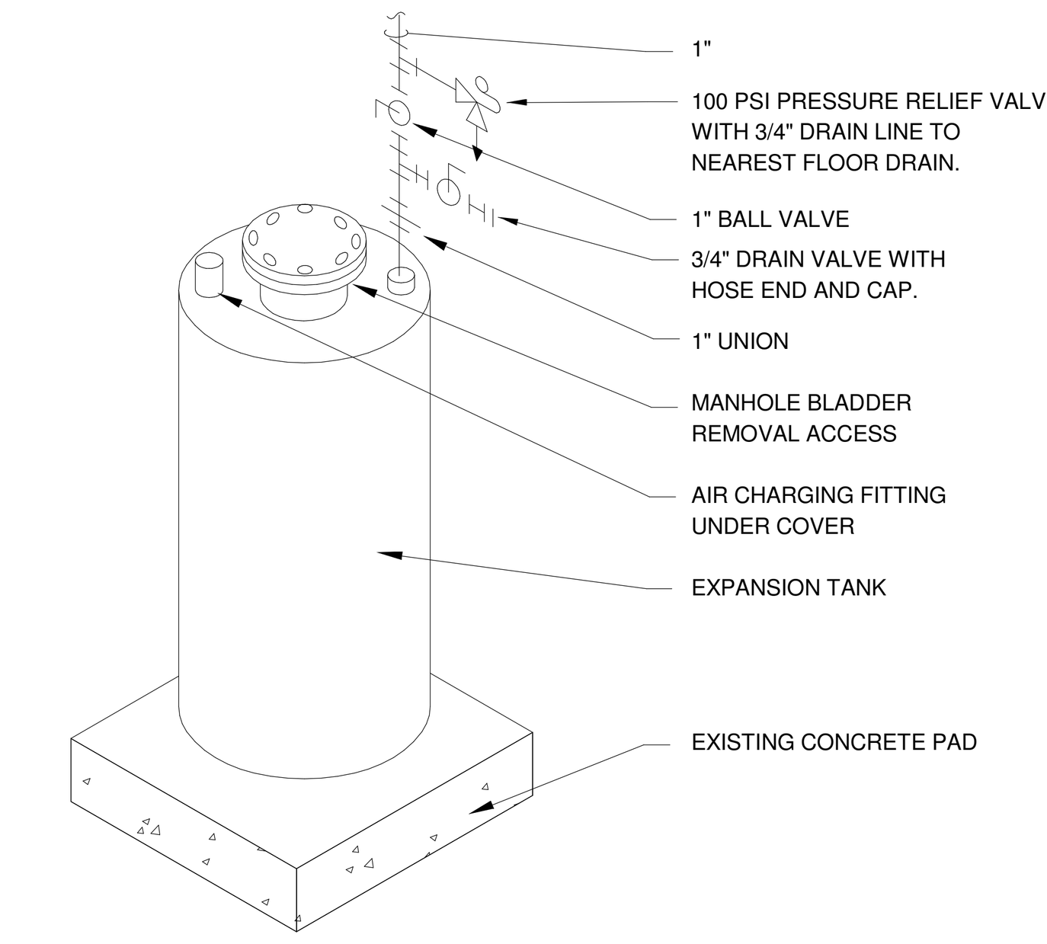
PIPE HANGER DETAIL

NO SCALE



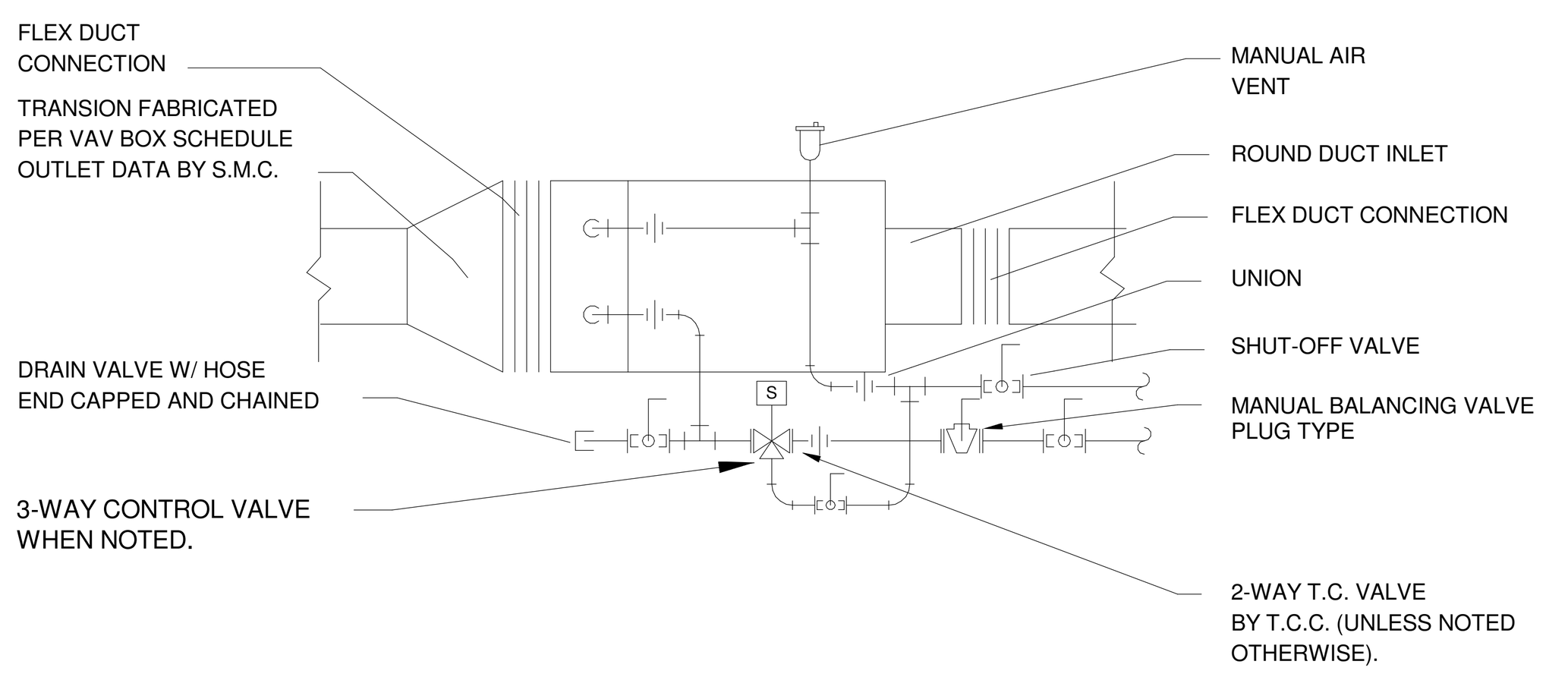
TYPICAL BRANCH LINE CONN.

NO SCALE



EXPANSION TANK DETAIL

NO SCALE



NEW VAV BOX PIPING DETAIL

2-WAY T.C. VALVE
(UNLESS NOTED OTHERWISE)

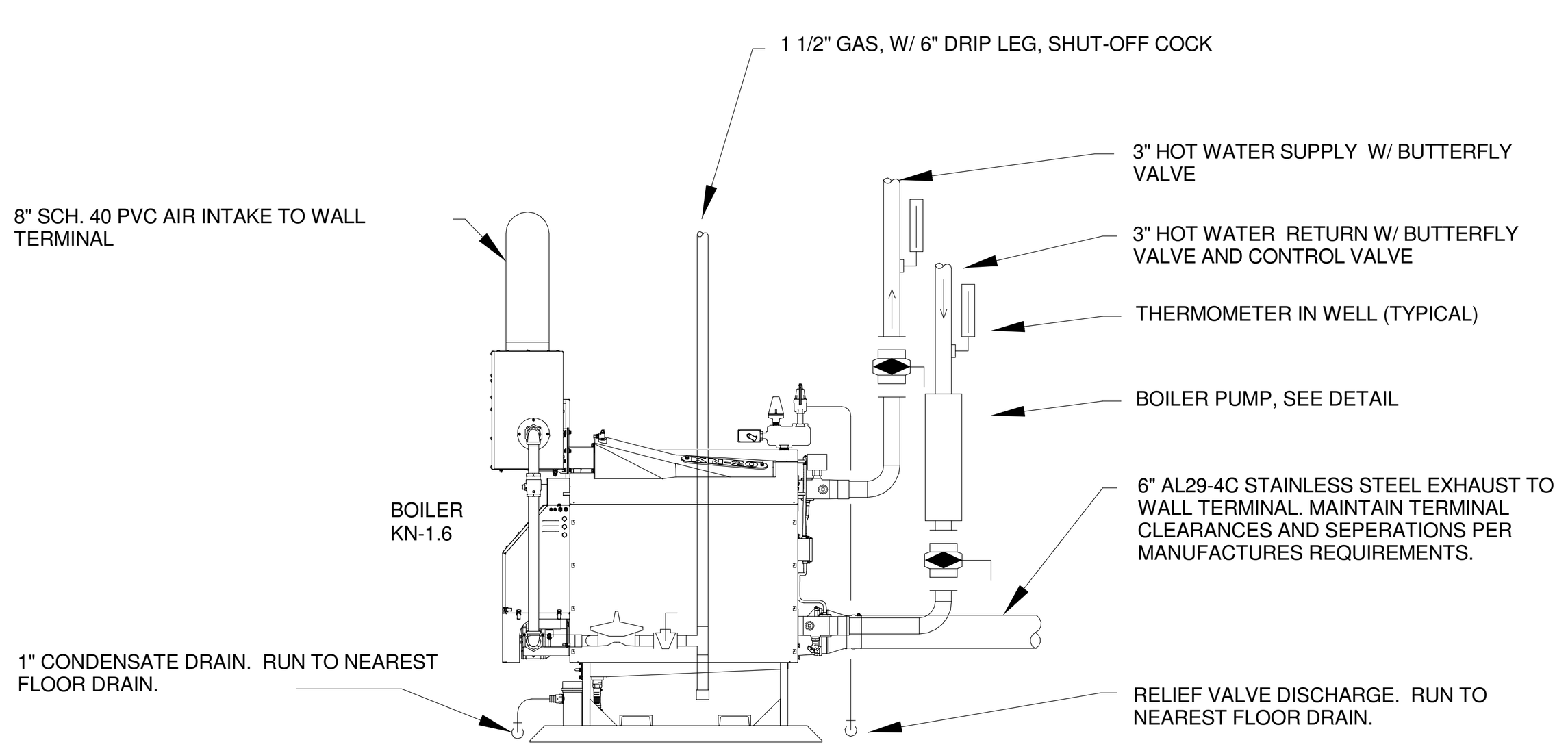
NO SCALE

EQUIPMENT SCHEDULE

MARK	EQUIPMENT	LOCATION	DESCRIPTION	MANUFACTURER
P-1 P-2	HEATING WATER BLDG. PUMPS	MECHANICAL A151	PUMPS TO BE 200 GPM AT 70 FEET OF HEAD, 7.5 H.P. @ 1750 RPM 208V./3PH.	ITT BELL & GOSSETT E-1510, 2BC
BP-1 BP-2 BP-3	BOILER WATER PUMPS	MECHANICAL A151	PUMPS TO BE 93 GPM AT 15 FEET OF HEAD, 3/4 H.P. @ 1750 RPM 208V./3PH.	ITT BELL & GOSSETT SERIES 60, 2X5-1/4
ET-1	HEATING EXPANSION TANK	MECHANICAL A151	132 GALLONS TOTAL CAPACITY, MAX. ACCEPTANCE VOLUME 132 GALLONS SIZE 79" HIGH X 24" DIAMETER.	AMTROL MODEL #500-L
B-1 B-2 B-3	HEATING WATER BOILERS	MECHANICAL A151	BOILER #1, #2 & #3 TO BE GAS FIRED FULL-MODULATION CONDENSING, 1600.0 MBH INPUT, 1440.0 MBH OUTPUT, 93.0 GPM, 208V./1PH., AND 13.1 AMPS.. PROVIDE BOILERS CONDENSATE NEUTRALIZER KIT. SET NEW BOILERS ON EXISTING BOILER CONCRETE PAD.	ADVANCED THERMAL HYDRONICS, MODEL KN-16

PIPING LEGEND

- NEW HEATING WATER SUPPLY
- NEW HEATING WATER RETURN
- CHS — NEW CHILLED WATER SUPPLY
- CHR — NEW CHILLED WATER RETURN
- (E)HS — EXISTING HEATING WATER SUPPLY
- (E)HR — EXISTING HEATING WATER RETURN
- (E)CHS — EXISTING CHILLED WATER SUPPLY
- (E)CHR — EXISTING CHILLED WATER RETURN
- EXISTING COLD WATER
- C.V. CHECK VALVE.
- B.V. BALL VALVE.
- UNION.
- THERMOMETER
- PRESSURE GAUGE
- CD CONDENSATE DRAIN



CONDENSING BOILER SECTION

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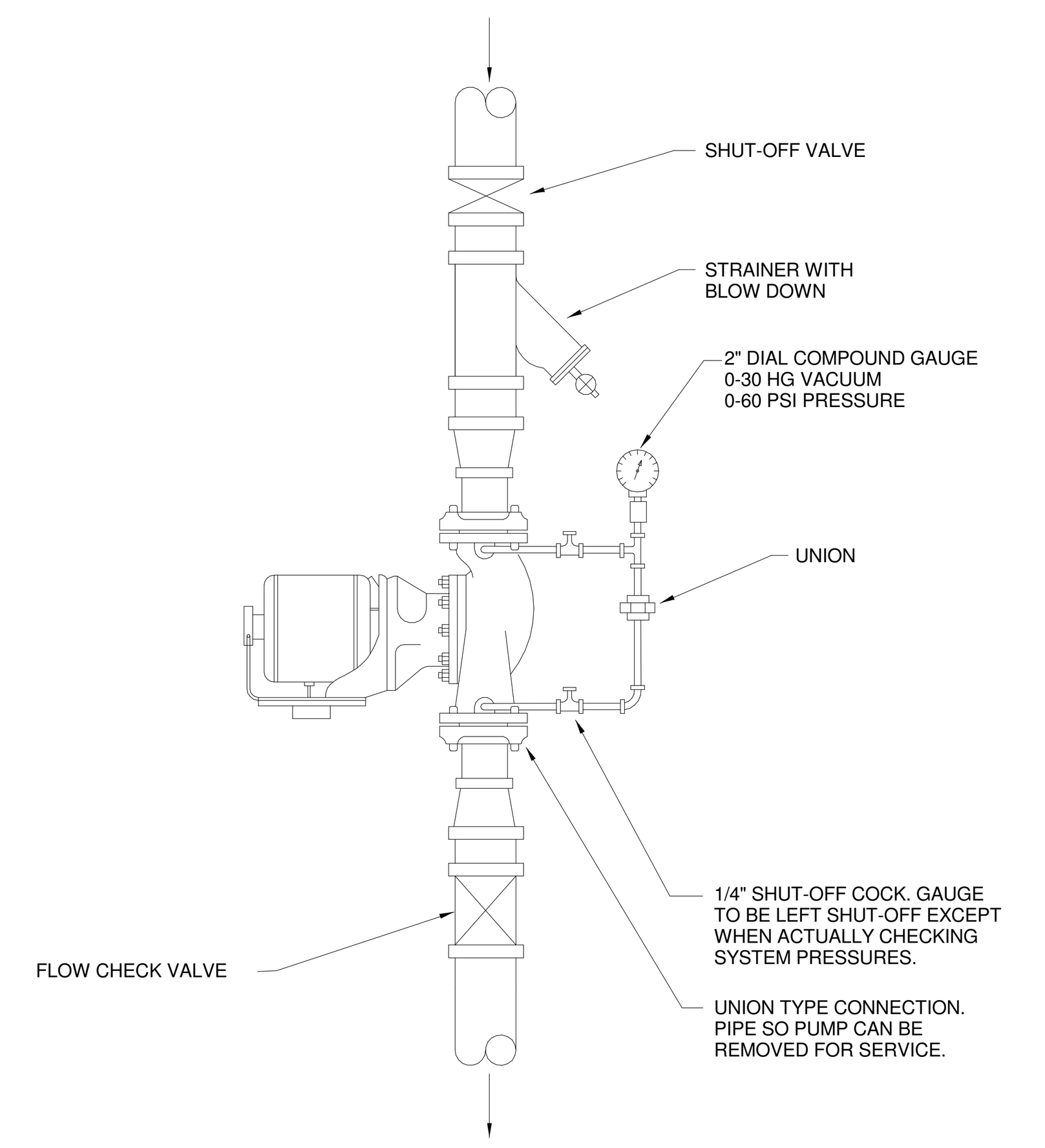

BOILER PUMP DETAIL

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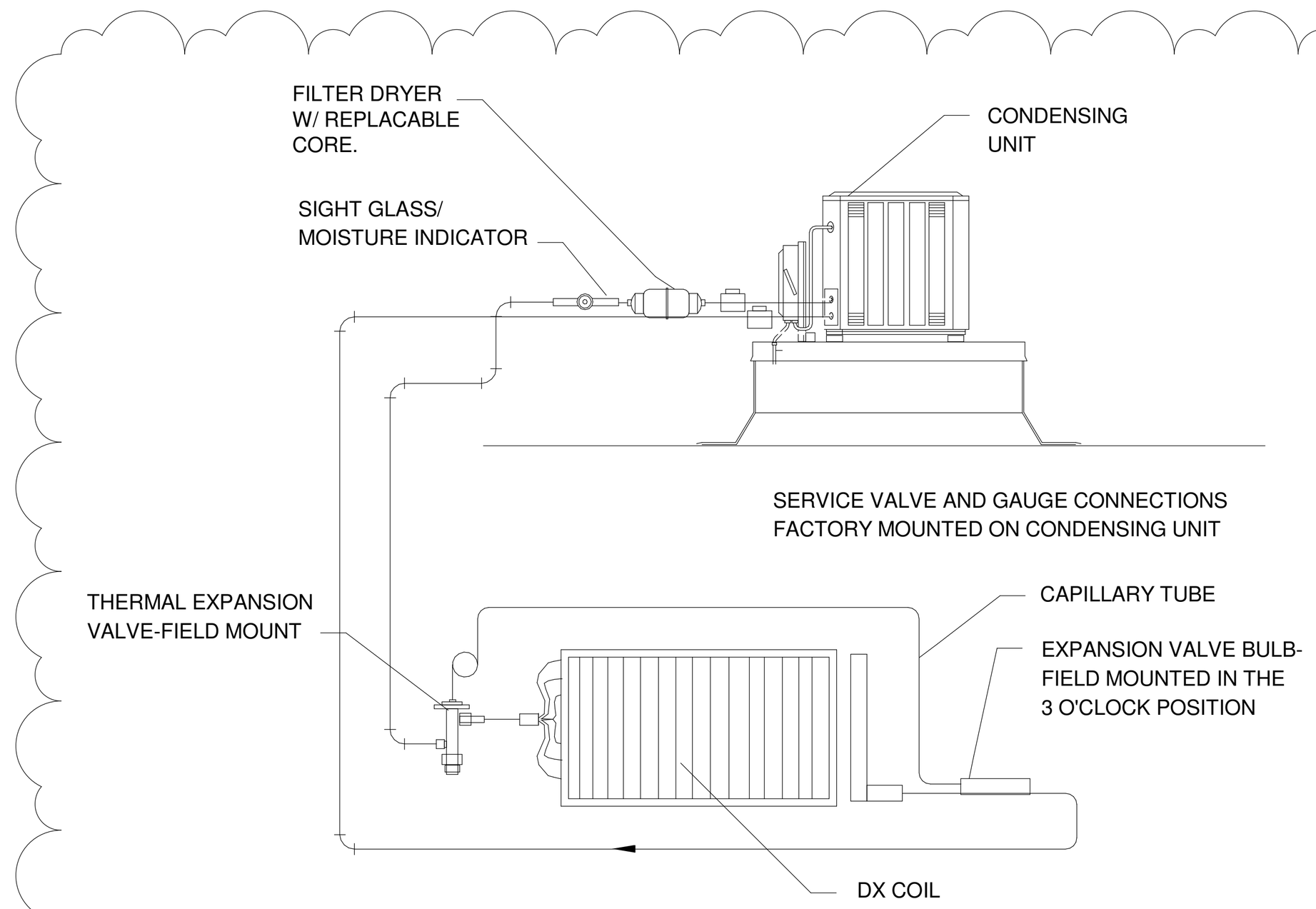

REFRIGERANT PIPING SCHEMATIC

NO SCALE

1 MECH PIPING DETAILS
1/8" = 1'-0"

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STAIR ASSOCIATES INC.
MECHANICAL / ELECTRICAL ENGINEERS

PROJECT:
MSD OF WARREN TOWNSHIP
PLEASANT RUN ELEMENTARY SCHOOL RENOVATION & ADDITION
1800 N. FRANKLIN RD. INDIANAPOLIS, IN 46219

SCOPE DRAWINGS:
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REVISIONS:

2	Addendum 2	03/24/2012

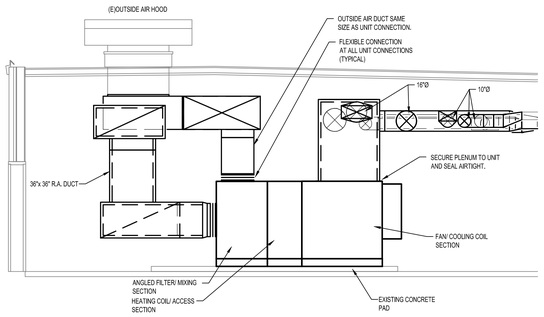
ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	RWT	WWH

DRAWING TITLE:
Mechanical Piping Details

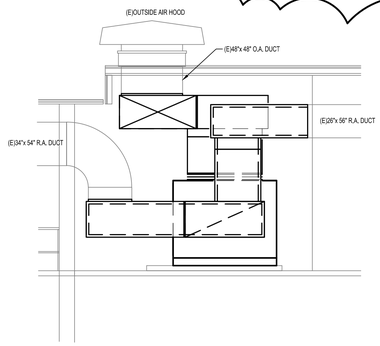
CERTIFIED BY:
WOODLAND WARD HOLM
REGISTERED
No. PE60021458
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWING NUMBER
M302

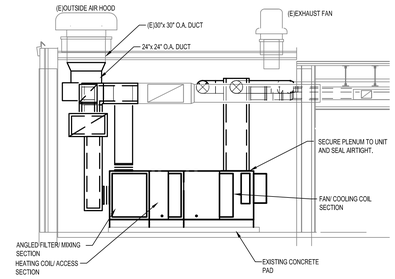
PROJECT NUMBER
2020061/1371



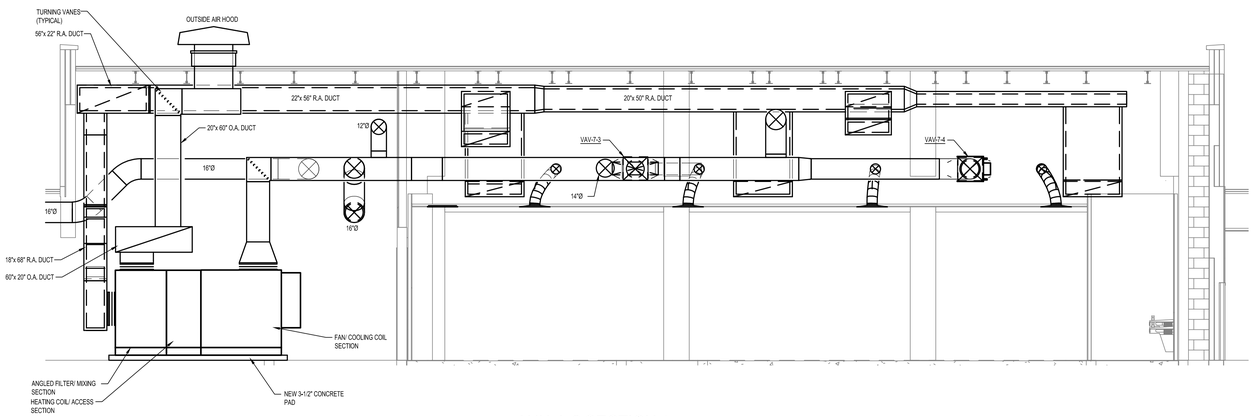
AHU-A-1 SECTION 1



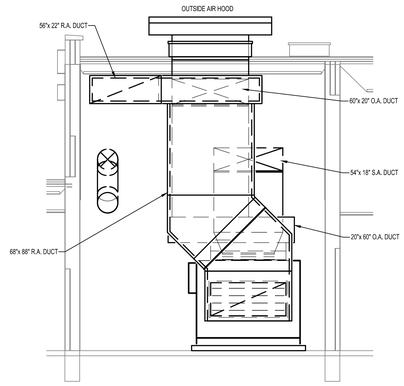
AHU-A-1 SECTION 2



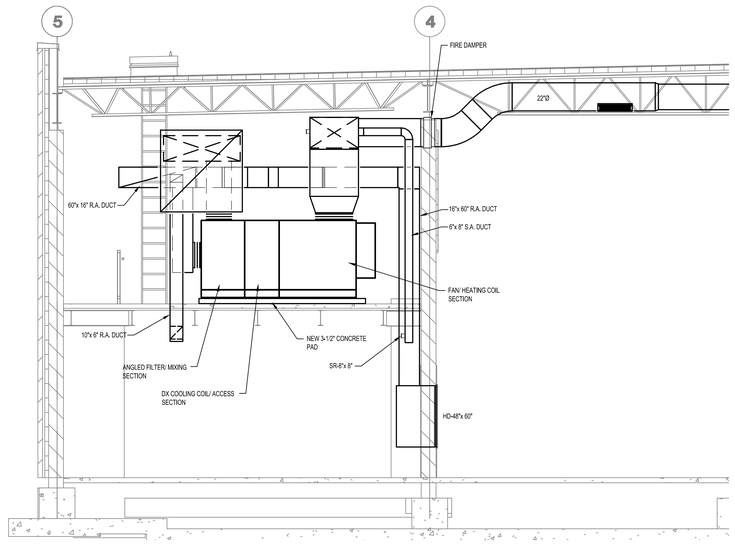
AHU-B-1 SECTION 1



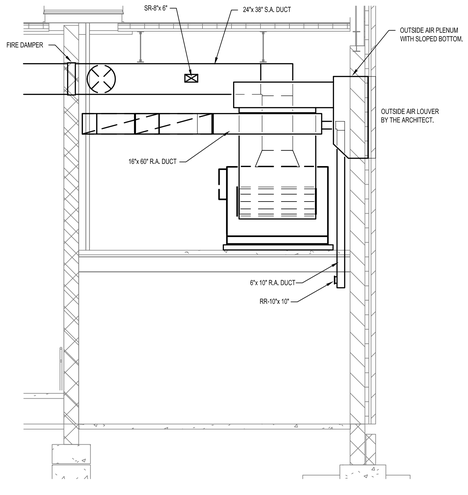
AHU-A-2 SECTION 1



AHU-A-2 SECTION 2



AHU-C-1 SECTION 1



AHU-C-1 SECTION 2

SCALE: $\frac{1}{4}$" = 1'-0"

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STAIR ASSOCIATES INC.
941 Conrad Dr Carmel Indiana
MECHANICAL / ELECTRICAL ENGINEERS

PROJECT:
MSD OF WARREN TOWNSHIP
PLEASANT RUN ELEMENTARY SCHOOL
ADDITIONS AND RENOVATIONS
1800 N. FRANKLIN RD., INDIANAPOLIS, IN 46219

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

REVISIONS:

2	ADDENDUM #2	03/24/2021

ISSUE DATE	DRAWN BY	CHECKED BY
02-26-2021	RWT	WWH

DRAWING TITLE:
MECHANICAL SECTIONS

CERTIFIED BY:
WOODLAND WARD HOH
REGISTERED
No. PE60021458
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWING NUMBER
M303

PROJECT NUMBER
2020061/1371

GENERAL PLAN NOTES

A. INSTALLATIONS TO CONFORM WITH FEDERAL, STATE AND LOCAL LAWS. ORDINANCES, CODES, RULES AND REGULATIONS WHICH ARE HEREBY MADE A PART OF THESE DOCUMENTS.

B. CONTRACTOR TO EXAMINE THE WORK REQUIRED OF OTHER CONTRACTORS FOR THIS PROJECT BEFORE SUBMITTING A BID PROPOSAL.

C. CONTRACTOR TO COORDINATE AND ASSURE THAT NO PIPING, DUCTWORK OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT IS INSTALLED IN, ENTERS OR PASSES THROUGH ELECTRICAL SPACES OR ROOMS PER NEC ARTICLE 384.

D. CONTRACTOR TO COORDINATE AND SCHEDULE ANY POWER OUTAGE IN ADVANCE WITH OWNER.

E. EXISTING LIGHT FIXTURES TO BE REUSED ARE TO BE CLEANED AND RELAMPED. ANY DEFECTIVE BALLAST TO BE REPLACED.

F. WIRE SIZE DESIGNATED AT HOME RUN TO BE CONTINUED THROUGHOUT ENTIRE CIRCUIT UNLESS NOTED OTHERWISE.

G. ALL EXISTING LIGHTING AND RECEPTACLE CIRCUITS TO REMAIN FOR RECONNECTION AND/OR EXTENSION TO NEW LIGHT FIXTURES AND DEVICES.

H. SUSPEND ALL LIGHT FIXTURES, SPEAKERS AND COMMUNICATION CABLES (DATA, SOUND, FIRE, VIDEO AND SECURITY) AS REQUIRED FOR CEILING REMOVAL.

I. NO MORE THAN SIX CURRENT CARRYING CONDUCTORS TO BE INSTALLED IN A SINGLE CONDUIT ON 20 AMP BRANCH CIRCUITS. CIRCUITS OF 25 AMPS OR MORE ONLY THREE CURRENT CARRYING CONDUCTORS TO BE INSTALLED IN A SINGLE CONDUIT.

J. ALL ACTUAL DIMENSIONS ARE TO BE FIELD MEASURED AND VERIFIED BEFORE ANY EQUIPMENT IS TO BE ORDERED. DO NOT SCALE FROM THESE DRAWINGS.

K. ALL ROOMS WITH WALLS THAT ARE BUILT UP TO THE DECK REQUIRE A 1" CONDUIT WITH BUSHINGS FOR ANY LOW VOLTAGE WIRING AND A SEPERATE 1" CONDUIT WITH BUSHINGS FOR DATA WIRING STUBBED FROM THE CORRIDOR TO WITH-IN THE ROOM ABOVE ACCESSIBLE CEILING. FOR ROOMS WITH-IN ROOMS AND NO CORRIDOR ACCESS, SIMILAR STUBBED CONDUITS ARE REQUIRED INTO A ROOM WITH CORRIDOR ACCESS.

L. PROVIDE A DEDICATED NEUTRAL WIRE TO EACH POWER AND LIGHTING BRANCH CIRCUIT. 1-POLE BREAKERS ARE TO BE UTILIZED WHERE INDICATED AND NO GROUPING OF THREE 1-POLE BRANCH CIRCUITS IN A SINGLE 3-POLE BREAKER ALLOWED. NO HANDLE TIES TO GROUP 1-POLE BREAKERS ALLOWED. PER NEC 210.4(B)

K. ALL DEVICES MOUNTED TO EXISTING WALLS ARE TO BE RECESSED WHEN IN A STUD, FURRING OR CAVITY CONDITION. DEVICES INSTALLED ON EXISTING CMU WALLS TO BE SURFACED MOUNTED.

2

GENERAL DEMOLITION NOTES

A. ELECTRICAL CONTRACTOR TO VISIT JOB SITE TO VERIFY ALL EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED OR ABANDONED.

B. ALL ITEMS SHOWN IN DASHED LINES AND/OR DARKER LINES INDICATE EXISTING TO REMOVED. LINE VOLTAGE CIRCUIT TO BE REMOVED TO NEAREST JUNCTION POINT UNLESS NOTED OTHERWISE. LOW VOLTAGE CIRCUITS NO LONGER IN USE TO BE REMOVED COMPLETE TO SOURCE.

2

C. ALL ITEMS SHOWN IN LIGHT (SCREENED) LINES INDICATES EXISTING TO REMAIN. ALL WIRING TO REMAIN INTACT UNLESS NOTED OTHERWISE.

D. ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXPOSED AND CONCEALED ELECTRICAL EQUIPMENT WHICH WILL BE EXPOSED WHEN CEILINGS AND WALLS ARE REMOVED.

E. AFTER ELECTRICAL EQUIPMENT IS REMOVED AND AN OPEN JUNCTION BOX REMAINS, CONTRACTOR TO FURNISH AND INSTALL A FINISHED BLANK COVERPLATE.

F. MOTORIZED EQUIPMENT TO BE REMOVED SHALL BE DISCONNECTED BY ELECTRICAL CONTRACTOR WITH CONDUIT AND WIRING REMOVED TO A POINT WHERE IT MAY BE ABANDONED UNLESS NOTED OTHERWISE NOTED.

G. ITEMS SUCH AS LIGHT FIXTURES, DEVICES, RACEWAYS, ETC., TO BE REMOVED SHALL BE THE OWNERS PROPERTY. CONTRACTOR TO BE RESPONSIBLE FOR DISPOSAL OF ITEMS NOT SALVAGED BY THE OWNER.

H. SEAL ALL EXISTING PENETRATIONS NO LONGER USED DUE TO DEMOLITION.

I. CONTRACTOR TO MAINTAIN ALL TRANSIENT SERVICES THROUGH PROJECT AREA AS REQUIRED FOR OPERATION OF EXISTING AREAS OF BUILDING.

J. EXISTING LIGHT SWITCH BACK BOX AND CONDUITS IN EXISTING WALLS TO REMAIN MAY BE REUSED.

K. ALL EXISTING LIGHT FIXTURES TO BE SUPPORTED FROM STRUCTURE BEFORE CEILING REMOVAL SO THAT LIGHT FIXTURES MAY BE USED AS CONSTRUCTION LIGHTING.

L. ALL EXISTING CABLING ABOVE CEILING AREAS TO BE TIE-WRAPPED AND SUPPORTED BEFORE CEILING REMOVAL SO THAT THESE CABLES MAY REMAIN IN SERVICE.

SYSTEMS CODES AND STANDARDS

SYSTEM	REQUIREMENTS
BUILDING AUTOMATION	UL 916: STANDARD FOR ENGERY MANAGEMENT EQUIPMENT ASHRAE 135: BACnet DATA COMMUNICATION PROTOCOL ISO/IEC 14908: LONWORKS
SMOKE CONTROL	UL 864: STANDARD FOR CONTROL UNITS AND ACCESSORIES FOR FIRE ALARM SYSTEMS UL 916: STANDARD FOR ENGERY MANAGEMENT EQUIPMENT ASHRAE 135: BACnet DATA COMMUNICATION PROTOCOL ISO/IEC 14908: LONWORKS
ELECTRICAL AND LOW VOLTAGE SYSTEMS AND WIRING	NFPA 70 NATIONAL ELECTRIC CODE
FIRE PUMP AND CONTROLS	NFPA 20 STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
FIRE ALARM SYSTEM	NFPA 70 NATIONAL ELECTRIC CODE NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE NFPA 101 LIFE SAFETY CODE
CENTRAL STATION MONORTING	UL 1981 STANDARD FOR CENTRAL STATION AUTOMATION SYSTEMS
NURSE CALL COMMUNICATION SYSTEM	UL 1069 STANDARD FOR HOSPITAL SIGNALING AND NURSE CALL EQUIPMENT
SECURITY MANAGMENT	UL 294: STANDARD FOR ACCESS CONTROL SYSTEM UNITS UL 1076 STANDARD FOR PROPRIETARY BURGLAR ALARM UNITS AND SYSTEMS UL 2044: STANDARD FOR COMMERCIAL CLOSED CIRCUIT TELEVISION EQUIPMENT NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE NFPA 101 LIFE SAFETY CODE

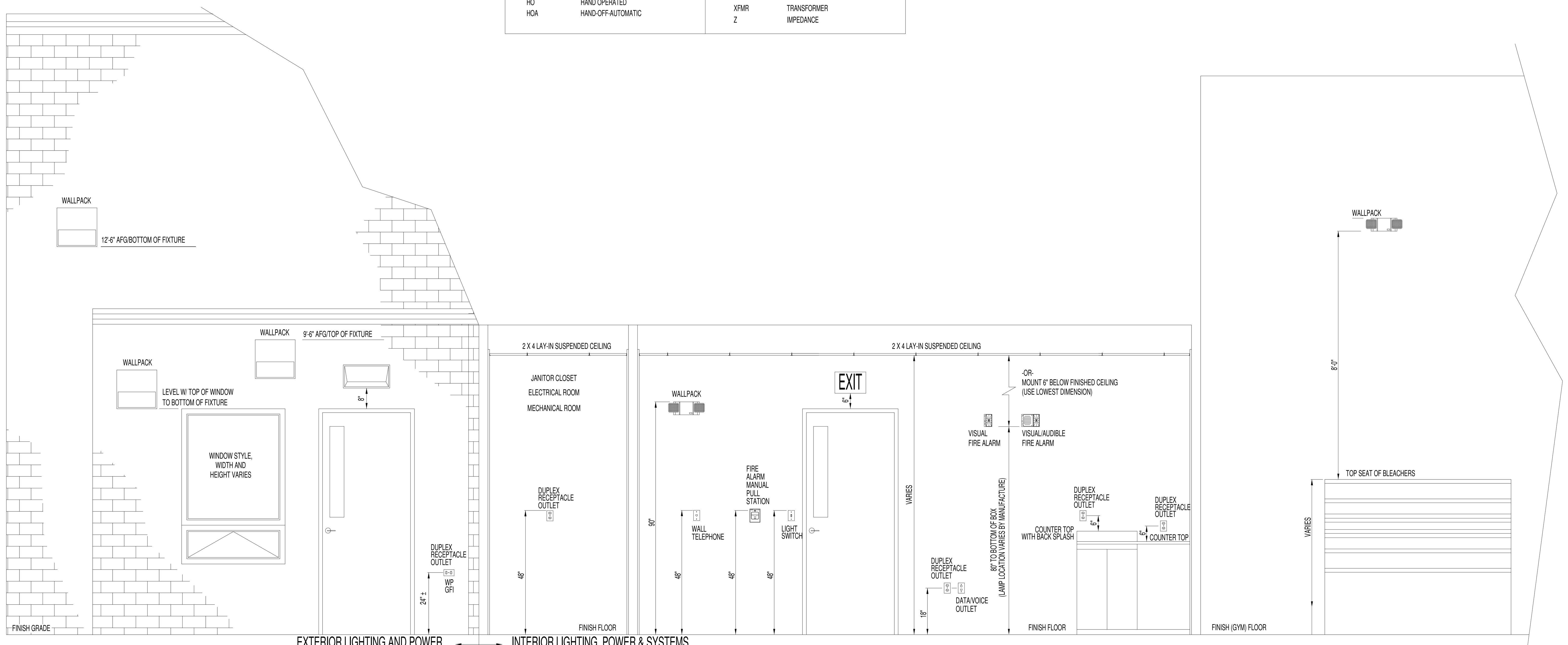
ABBREVIATIONS

MARK	DESCRIPTION	MARK	DESCRIPTION
A or AMP	AMPERE	HP	HORSEPOWER OR HEAT PUMP
AC	ALTERNATING CURRENT	HPS	HIGH PRESSURE SODIUM
A/C	AIR CONDITIONING	HV	HIGH VOLTAGE
ACU	AIR CONDITIONING UNIT	HZ	HERTZ
ACCU	AIR COOLED CONDENSING UNIT	INCAN	INCANDESCENT
AFF	ABOVE FINISHED FLOOR	ISG	ISOLATED GROUND SURGE GUARD
AFG	ABOVE FINISHED GRADE	JB	JUNCTION BOX
AHU	AIR HANDLING UNIT	KVA	KILOVOLT AMPERE
AIC	AMPERE INTERRUPTING CAPACITY	KVAR	KILOVOLT AMPERE REACTIVE
AM	AMMETER	KW	KILOWATT
APPROX	APPROXIMATELY	LV	LOW VOLTAGE
ATS	AUTOMATIC TRANSFER SWITCH	MATV	MASTER ANTENNA TELEVISION
AUTO	AUTOMATIC	MC	MECHANICAL CONTRACTOR
BKR	BREAKER	MCC	MOTOR CONTROL CENTER
BLDG	BUILDING	MDP	MAIN DISTRIBUTION PANEL
C	CONDUIT	MECH	MECHANICAL
°C	DEGREES CELSIUS	MISC	MISCELLANEOUS
CB or C/B	CIRCUIT BREAKER	MLO	MAIN LUGS ONLY
CKT	CIRCUIT	NL	NIGHT LIGHT
CWT	CONSTANT WATTAGE TRANSFORMER	OFCI	OWNER FURNISHED - CONTRACTOR INSTALLED
DC	DIRECT CURRENT	OFOI	OWNER FURNISHED- OWNER INSTALLED
DDC	DIRECT DIGITAL CONTROL	O/H	OVERHEAD
DEPT	DEPARTMENT	PBOX	PULL BOX
DISC	DISCONNECT	PB	PUSH BUTTON
DN	DOWN	PH or Ø	PHASE
EC	ELECTRICAL CONTRACTOR	PNL	PANEL
EF	EXHAUST FAN	PP	PUSH PLATE
ELEC	ELECTRIC	PT	PNEUMATIC TUBE
ELEV	ELEVATOR	PTS	PNEUMATIC TUBE STATION
EM	EMERGENCY	SQ	SQUARE
EQUIP	EQUIPMENT	SW	SWITCH
EWC	ELECTRIC WATER COOLER	SWBD	SWITCHBOARD
(EX)	EXISTING	SWGR	SWITCHGEAR
°F	DEGREES FAHRENHEIT	TCC	TEMPERATURE CONTROL CONTRACTOR
FA	FIRE ALARM	U/C	UNDERCABINET OR UNDERCOUNTER
FAAP	FIRE ALARM ANNUNCIATOR PANEL	TYP	TYPICAL
FACP	FIRE ALARM CONTROL PANEL	U/G	UNDERGROUND
FDR	FEEDER	V	VOLT
FV	FILM VIEWER	VFD	VARIABLE FREQUENCY DRIVE
G or GND	GROUND	VM	VOLTMETER
GC	GENERAL CONTRACTOR	VOL	VOLUME
GEN	GENERATOR	VSD	VARIABLE SPEED DRIVE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	W/	WITH
GFI	GROUND FAULT INTERRUPTER	W/O	WITHOUT
GFP	GROUND FAULT PROTECTION	WP	WEATHERPROOF
HID	HIGH INTENSITY DISCHARGE	XFMR	TRANSFORMER
HO	HAND OPERATED	Z	IMPEDANCE
HOA	HAND-OFF-AUTOMATIC		

SYMBOL LEGEND

- X A C — LIGHTING FIXTURE: X = FIXTURE TYPE, A = CIRCUIT NUMBER, c = SWITCH LEG
- EMERGENCY LIGHTING FIXTURE ON BATTERY DRIVER
- EM — EMERGENCY LIGHTING FIXTURE ON BATTERY DRIVER
- EXIT LIGHT
- $ — 20 AMP TOGGLE SWITCH
- $3 — 20 AMP TOGGLE SWITCH 3-WAY
- D — DIMMER SWITCH
- O — CEILING OCCUPANCY SENSOR
- O — WALL MOUNTED OCCUPANCY SENSOR
- 20 AMP DUPLEX RECEPTACLE
- 20 AMP QUADPLEX RECEPTACLE
- GFI RECEPTACLE
- RECEPTACLE - SPECIAL (SEE PLAN NOTE)
- FLOOR MOUNTED DEVICE - 'FB'
- PUSHBUTTON
- COMBINATION MOTOR STARTER
- FUSED DISCONNECT SWITCH
- SURFACE MOUNTED ELECTRICAL PANELBOARD
- MOTOR OUTLET
- V — FIRE ALARM VISUAL DEVICE
- H — FIRE ALARM AUDIO/VISUAL DEVICE (HORN)
- S — FIRE ALARM SMOKE DETECTOR PHOTO ELECTRIC
- M — FIRE ALARM MANUAL PULL SWITCH
- S D — FIRE ALARM DUCT DETECTOR
- F — FIRE ALARM FLOW SWITCH
- PIV — FIRE ALARM POST INDICATOR VALVE
- T — TAMPER SWITCH
- DATA OUTLET
- P — PROJECTOR
- AI — AIPHONE DOOR STATION
- CR — CARD READER DEVICE
- S — SPEAKER - CEILING MOUNTED
- S — SPEAKER - STRUCTURE MOUNTED
- S — WALL MOUNTED SPEAKER
- MICROPHONE
- TV — VIDEO MONITOR OUTPUT
- CAMERA
- C — WALL MOUNTED CLOCK

NOT ALL SYMBOLS ARE USED IN PROJECT



NOTE:
THESE DIMENSIONS ARE BASED ON DRYWALL CONSTRUCTION. FOR MASONRY CONSTRUCTION THESE DIMENSIONS MAY BE ALTERED TO ACCOMMODATE BLOCK SCORE; EXCLUDING FIRE ALARM DEVICES - WHICH MUST BE MOUNTED AT HEIGHTS SHOWN.

STANDARD MOUNTING HEIGHTS DETAIL

SCALE: NONE

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STAIR ASSOCIATES INC.
9641 Commerce Dr. Carmel, Indiana
MECHANICAL / ELECTRICAL ENGINEERS

PROJECT:
MSD OF WARREN TOWNSHIP
PLEASANT RUN ELEMENTARY SCHOOL
RENOVATION & ADDITION
1800 N. FRANKLIN RD. INDIANAPOLIS, IN 46219

SCOPE DRAWINGS:
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REVISIONS:

2	Addendum 2	3-24-2021

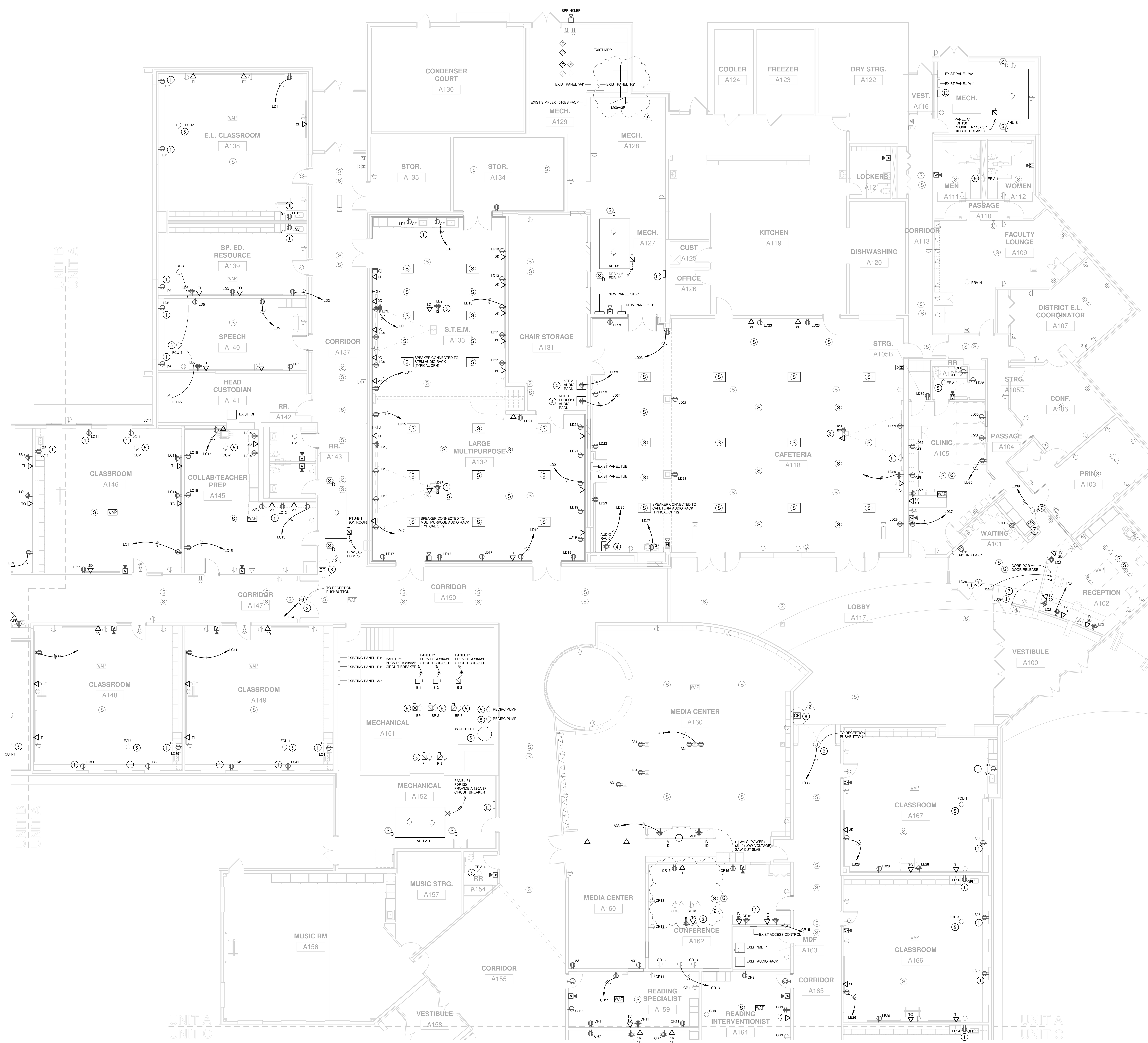
ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	SGD	WWH

DRAWING TITLE:
Electrical Symbols and Abbreviations

CERTIFIED BY:
WOODLAND WARD HOLM
REGISTERED
No. PE60021458
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWING NUMBER
E100

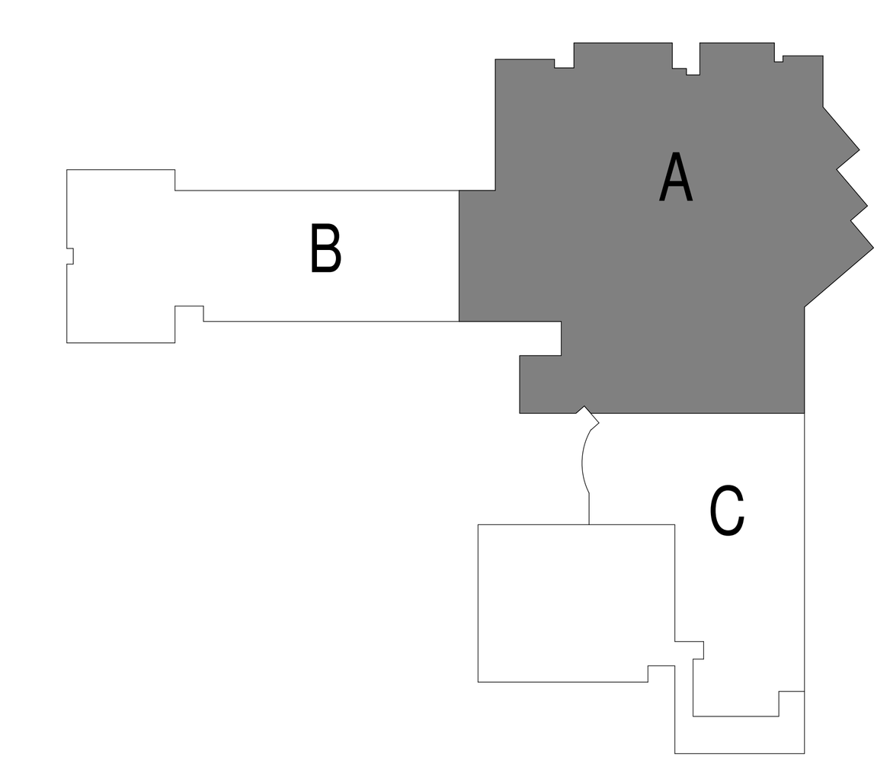
PROJECT NUMBER
2020061/1371



1 First Floor Power and Systems Plan Unit A
1/8" = 1'-0"

POWER PLAN NOTES

1 DEVICE MOUNTED AT 6" ABOVE COUNTER (OR BACKSPLASH IF PRESENT) TO CENTER OF DEVICE. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION.
2 POWER FOR DOOR HOLD OPEN WITH RELEASE BUTTON AT RECEPTION DESK
3 CEILING MOUNTED VIDEO PROJECTOR. VERIFY LOCATION.
4 AUDIO RACK LOCATION. PROVIDE(4) 1"c FOR LOW VOLTAGE TO ABOVE ACCESSIBLE CEILING.
5 CONNECT TO EXISTING CIRCUIT.
6 DEVICES LOCATED IN FACE OF BLEACHER.
7 POWER FOR ACCESS CONTROL AND/OR ELECTRONIC LOCKING DEVICE TRANSFORMER LOCATED ABOVE CEILING. PROVIDE 2-GANG BOX AND CONDUITS TO DOOR FRAMES. CONNECT TO LOW VOLTAGE TRANSFORMER AND PROVIDE LAN CONNECTION
8 CARD READER DEVICE IS O.F.O.I. PROVIDE 1-GANG BOX AT +48" WITH 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.
9 MOTORIZED PROJECTION SCREEN.
10 SPEAKER TO BE HUNG FROM STRUCTURE.
11 WALKER RFB6 FLOOR BOX AND COVER WITH 3/4" POWER AND (2) 1-1/4" LOW VOLTAGE CONDUITS TO ABOVE ACCESSIBLE CEILING.
12 TCC CONTROL PANEL. CONNECT TO NEAREST CIRCUIT AND PROVIDE LAN CONNECTION.
13 LAN CONNECTION FOR CAMERA. PROVIDE 25' EXCESS CABLE IN A LOOP..



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STAIR ASSOCIATES INC.
9641 Commerce Dr. Carmel, Indiana
MECHANICAL / ELECTRICAL ENGINEERS

PROJECT:
MSD OF WARREN TOWNSHIP
PLEASANT RUN ELEMENTARY SCHOOL
RENOVATION & ADDITION
1800 N. FRANKLIN RD. INDIANAPOLIS, IN 46219

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REVISIONS:

2	Addendum 2	3-24-2021

ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	SGD	WWH

DRAWING TITLE:
First Floor Power and Systems Plan Unit A

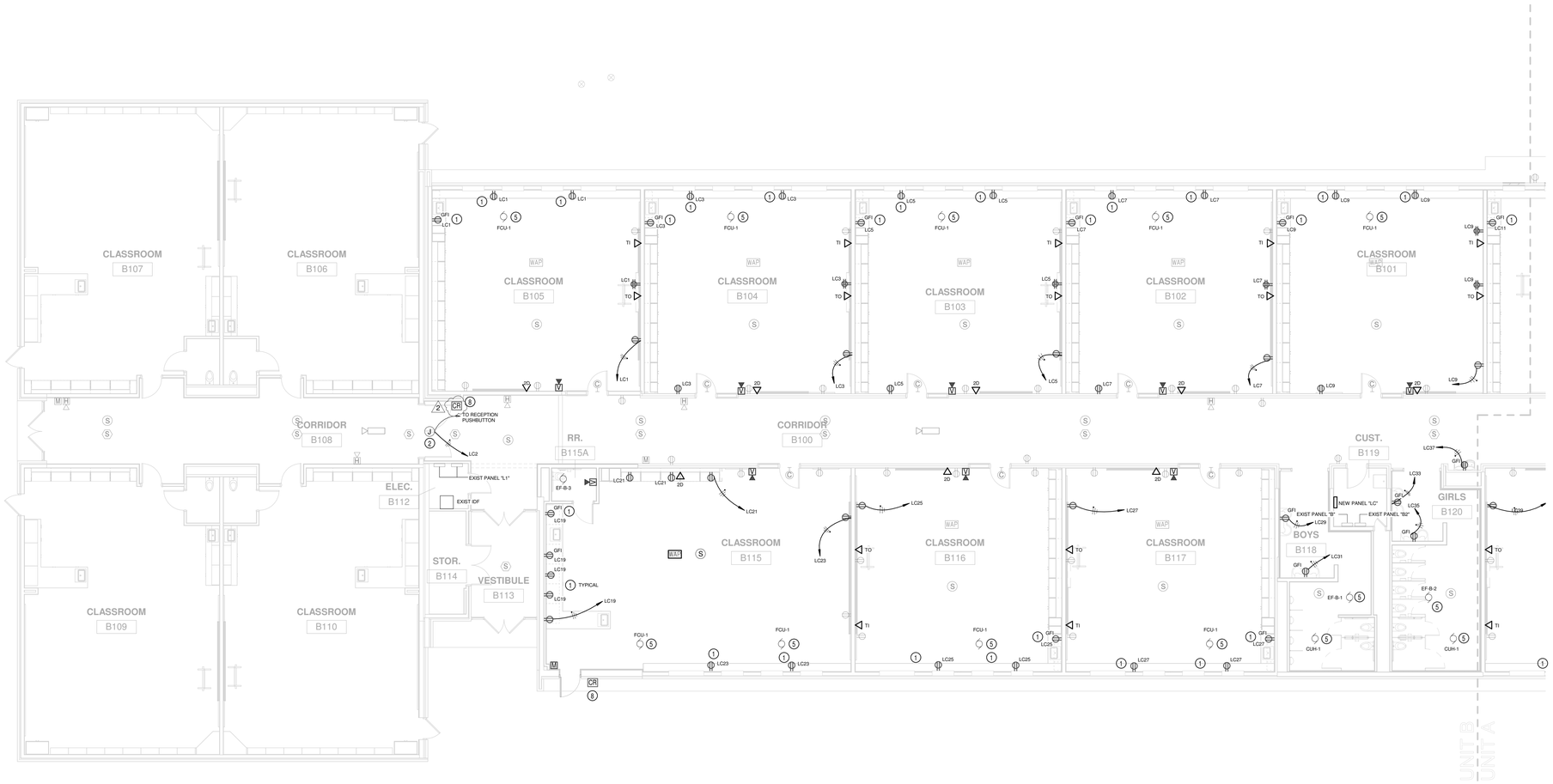
CERTIFIED BY:
WOODLAND WARD HOLM
REGISTERED
No. PE60021458
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWING NUMBER
E201A

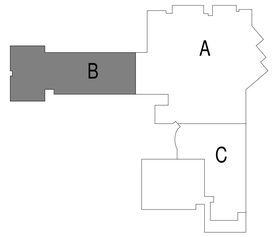
PROJECT NUMBER
2020061/1371

POWER PLAN NOTES

1. DEVICE MOUNTED AT 6" ABOVE COUNTER (OR BACKSPLASH IF PRESENT) TO CENTER OF DEVICE. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION.
2. POWER FOR DOOR HOLD OPEN WITH RELEASE BUTTON AT RECEPTION DESK
3. CEILING MOUNTED VIDEO PROJECTOR. VERIFY LOCATION.
4. AUDIO RACK LOCATION. PROVIDE(4) 1"c FOR LOW VOLTAGE TO ABOVE ACCESSIBLE CEILING.
5. CONNECT TO EXISTING CIRCUIT.
6. DEVICES LOCATED IN FACE OF BLEACHER.
7. POWER FOR ACCESS CONTROL AND/OR ELECTRONIC LOCKING DEVICE TRANSFORMER LOCATED ABOVE CEILING. PROVIDE 2-GANG BOX AND CONDUITS TO DOOR FRAMES. CONNECT TO LOW VOLTAGE TRANSFORMER AND PROVIDE LAN CONNECTION
8. CARD READER DEVICE IS O.F.O.I. PROVIDE 1-GANG BOX AT +48" WITH 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.
9. MOTORIZED PROJECTION SCREEN.
10. SPEAKER TO BE HUNG FROM STRUCTURE.
11. WALKER RFB6 FLOOR BOX AND COVER WITH 3/4" POWER AND (2) 1-1/4" LOW VOLTAGE CONDUITS TO ABOVE ACCESSIBLE CEILING.
12. TCC CONTROL PANEL. CONNECT TO NEAREST CIRCUIT AND PROVIDE LAN CONNECTION.
13. LAN CONNECTION FOR CAMERA. PROVIDE 25' EXCESS CABLE IN A LOOP..



1 First Floor Power and Systems Plan Unit B
1/8" = 1'-0"



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STAIR ASSOCIATES INC
MECHANICAL / ELECTRICAL ENGINEERS

PROJECT:
MSD OF WARREN TOWNSHIP

PLEASANT RUN ELEMENTARY SCHOOL
RENOVATION & ADDITION

1800 N. FRANKLIN RD. INDIANAPOLIS, IN 46219

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REVISIONS:

2	Addendum 2	3-24-2021

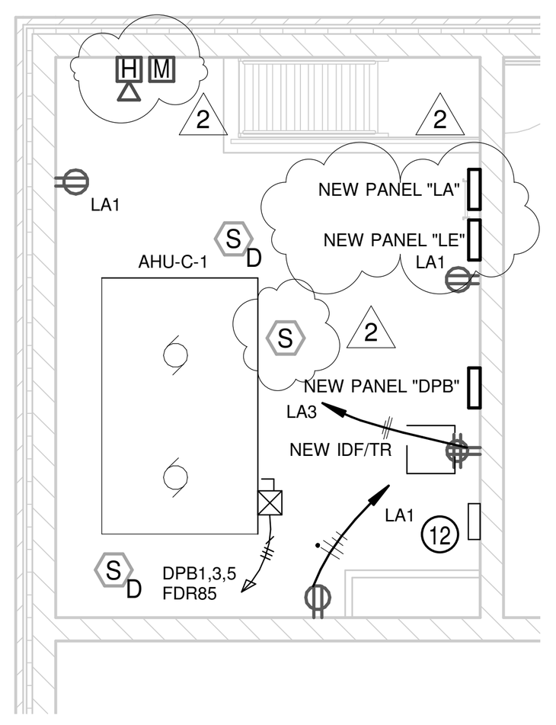
ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	SGD	WWH

DRAWING TITLE:
First Floor Power and Systems Plan Unit B

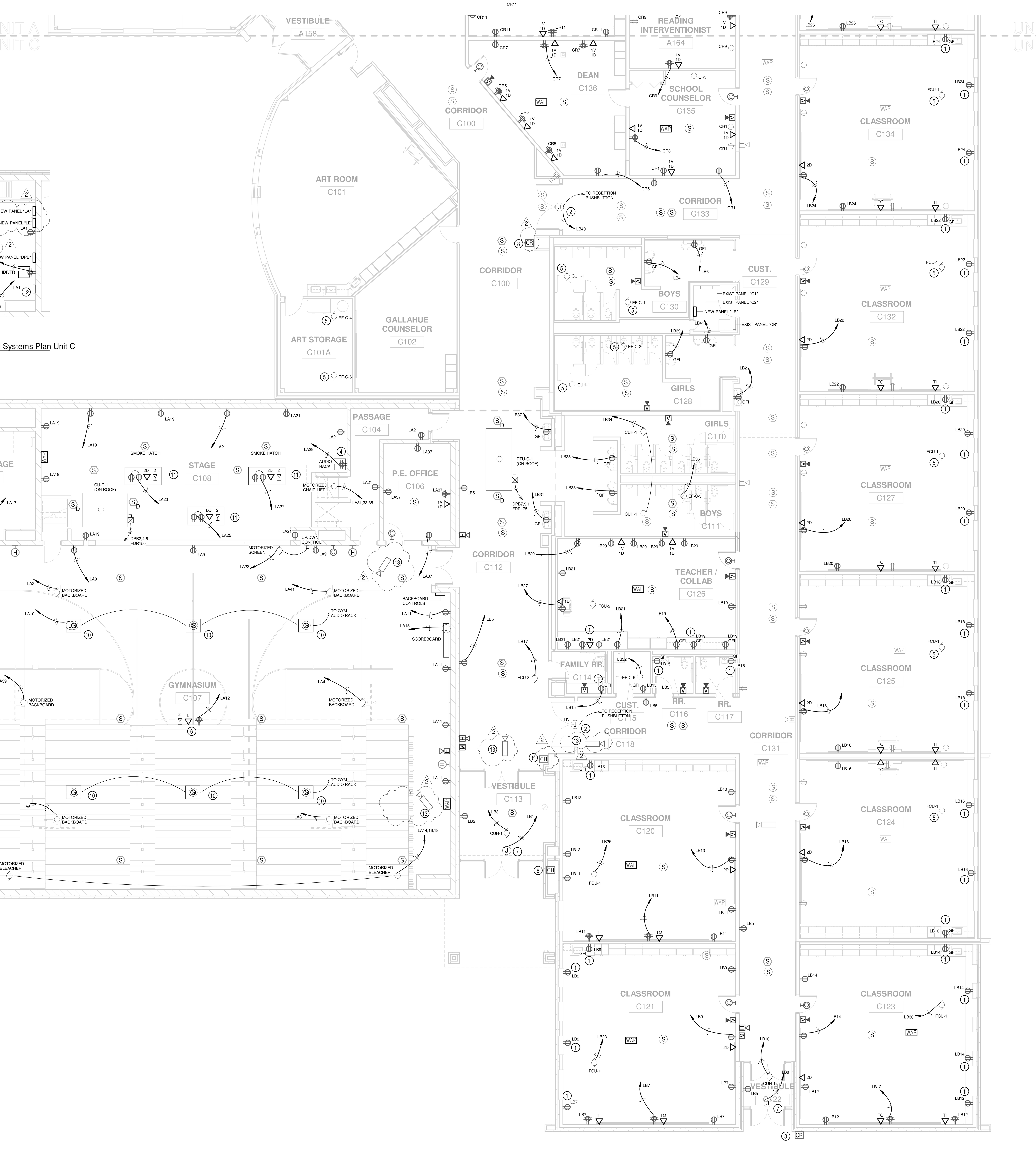
CERTIFIED BY:
WOODLAND WARD WWH REGISTERED PROFESSIONAL ENGINEER
No. PE60021458
STATE OF INDIANA

DRAWING NUMBER
E201B

PROJECT NUMBER
2020061/1371



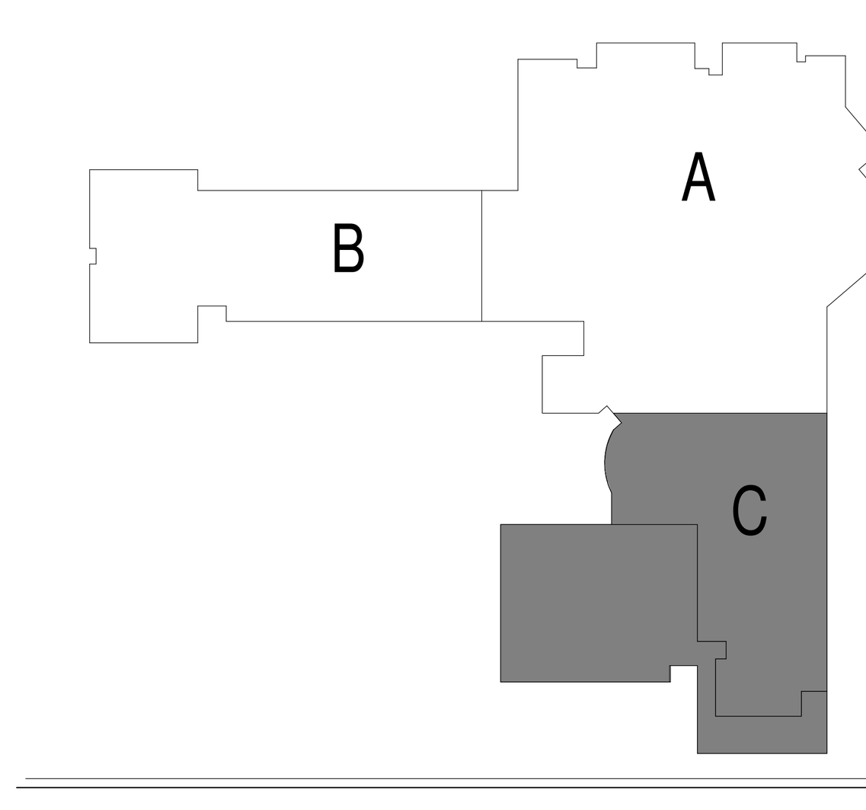
2 Mezzanine Power and Systems Plan Unit C
1/8" = 1'-0"



1 First Floor Power and Systems Plan Unit C
1/8" = 1'-0"

POWER PLAN NOTES

1. DEVICE MOUNTED AT 6" ABOVE COUNTER (OR BACKSPLASH IF PRESENT) TO CENTER OF DEVICE. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION.
2. POWER FOR DOOR HOLD OPEN WITH RELEASE BUTTON AT RECEPTION DESK
3. CEILING MOUNTED VIDEO PROJECTOR. VERIFY LOCATION.
4. AUDIO RACK LOCATION. PROVIDE(4) 1"c FOR LOW VOLTAGE TO ABOVE ACCESSIBLE CEILING.
5. CONNECT TO EXISTING CIRCUIT.
6. DEVICES LOCATED IN FACE OF BLEACHER.
7. POWER FOR ACCESS CONTROL AND/OR ELECTRONIC LOCKING DEVICE TRANSFORMER LOCATED ABOVE CEILING. PROVIDE 2-GANG BOX AND CONDUITS TO DOOR FRAMES. CONNECT TO LOW VOLTAGE TRANSFORMER AND PROVIDE LAN CONNECTION
8. CARD READER DEVICE IS O.F.O.I. PROVIDE 1-GANG BOX AT +48" WITH 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.
9. MOTORIZED PROJECTION SCREEN.
10. SPEAKER TO BE HUNG FROM STRUCTURE.
11. WALKER RFB6 FLOOR BOX AND COVER WITH 3/4" POWER AND (2) 1-1/4" LOW VOLTAGE CONDUITS TO ABOVE ACCESSIBLE CEILING.
12. TCC CONTROL PANEL. CONNECT TO NEAREST CIRCUIT AND PROVIDE LAN CONNECTION.
13. LAN CONNECTION FOR CAMERA. PROVIDE 25' EXCESS CABLE IN A LOOP..



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STAIR ASSOCIATES INC.
MECHANICAL / ELECTRICAL ENGINEERS

PROJECT:
MSD OF WARREN TOWNSHIP
PLEASANT RUN ELEMENTARY SCHOOL
RENOVATION & ADDITION
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REVISIONS:

2	Addendum 2	3-24-2021

ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	SGD	WWH

DRAWING TITLE:
First Floor Power and Systems Plan Unit C

CERTIFIED BY:
WOODLAND WARD HOLM REGISTERED No. PE60021458 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWING NUMBER
E201C

PROJECT NUMBER
2020061/1371

FEEDER AND BRANCH CIRCUIT SCHEDULE

FEEDER DESIGNATION	CONDUIT		CONDUCTOR SIZE IN EACH CONDUIT			REMARKS
	QTY.	SIZE	PHASE	NEUTRAL	GROUND	
FDR20	1	3/4"	#12	#12	#12	
FDR30	1	3/4"	#10	#10	#12	
FDR50	1	3/4"	#8	#8	#10	
FDR65	1	1"	#6	#6	#10	
FDR85	1	1"	#4	#4	#8	
FDR100	1	1-1/4"	#3	#3	#8	
FDR125	1	1-1/2"	#1	#1	#6	
FDR150	1	1-1/2"	#1/0	#1/0	#6	
FDR200	1	2-1/2"	#3/0	#3/0	#6	
FDR225	1	2-1/2"	#4/0	#4/0	#4	
FDR300	1	3"	#350 MCM	#350 MCM	#4	
FDR400	1	4"	#500 MCM	#500 MCM	#3	
FDR600	2	3"	#350 MCM	#350 MCM	#1	
FDR800	2	4"	#500 MCM	#500 MCM	#1/0	
FDR1000	3	3"	#400 MCM	#400 MCM	#1/0	
FDR1200	3	4"	#500 MCM	#500 MCM	#3/0	
FDR1400	5	3-1/2"	#300 MCM	#300 MCM	#4/0	

NOTE: ALL WIRE TO BE COPPER
MINIMUM WIRE SIZE TO BE #12AWG UNLESS NOTED OTHERWISE
MINIMUM CONDUIT SIZE TO BE 3/4" UNLESS NOTED OTHERWISE
EMT STEEL COMPRESSION FITTINGS FOR CONDUITS 1-1/2" AND SMALLER, EMT STEEL SET SCREW FOR CONDUITS 2" AND LARGER
PANELBOARD FEEDERS TO BE GRS OR IMC CONDUIT

PANELBOARD SCHEDULE

PANEL			BUSSING					BRANCH CIRCUIT BREAKERS					REMARKS
DESIGNATION	LOCATION	MTG. F/S	TYPE			AMP SIZE	MAIN TYPE	BREAKER		QUANTITY			
			PHASE	WIRE	VOLTAGE			AMP	POLE	CONNECTED	SPARE	SPACE	
LA		S	3	4	120/208	225	MLO	20	1	38	1	–	
								20	3	1			
LB		S	3	4	120/208	225	MLO	20	1	42	–	–	
LC		S	3	4	120/208	225	MLO	20	1	23	6	13	
									3				
LD		S	3	4	120/208	225	MLO	20	1	21	6	15	
LE		S	3	4	120/208	100	MLO	20	1	–	12	16	
								20	2	1			
DPA		S	3	4	120/208	600	MLO	110	3	1	–	–	
								175	3	1			
								225	3	3	1	–	
								600	3	1	–	–	
DPB		S	3	4	120/208	600	MLO	80	3	1	–	–	
								100	3	1			
								125	3	3	1	–	
								150	3	1	–	–	
								225	3	1	–	–	

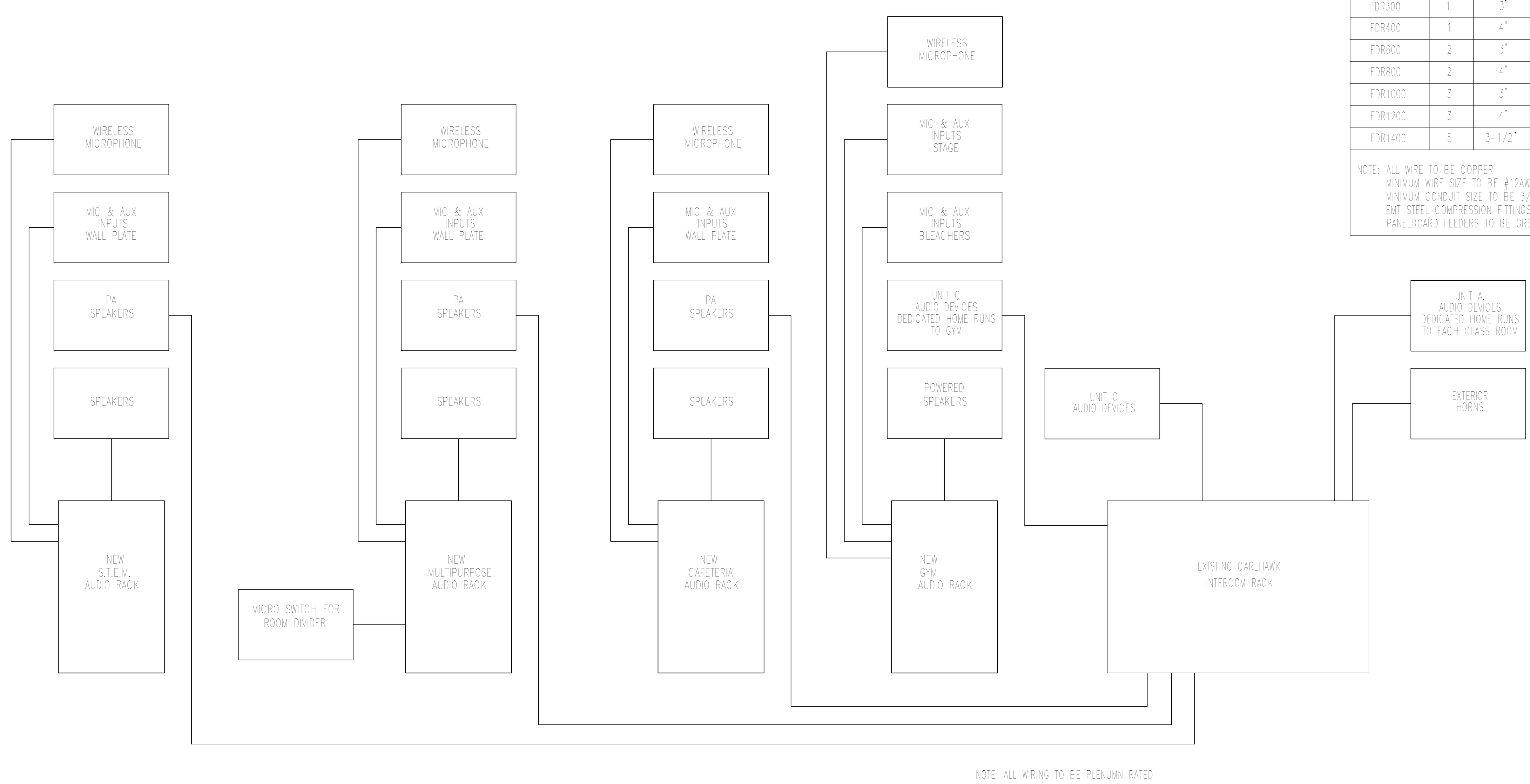
NOTES:
1. ALL BUSS TO BE COPPER, INCLUDING GROUND BUSS BAR
2. BRANCH CIRCUIT BREAKER A.I.C. RATINGS AS FOLLOWS
120/208- 22K AIC
277/480- 14K AIC
MDP- 50K AIC

2

MOTOR STARTER SCHEDULE

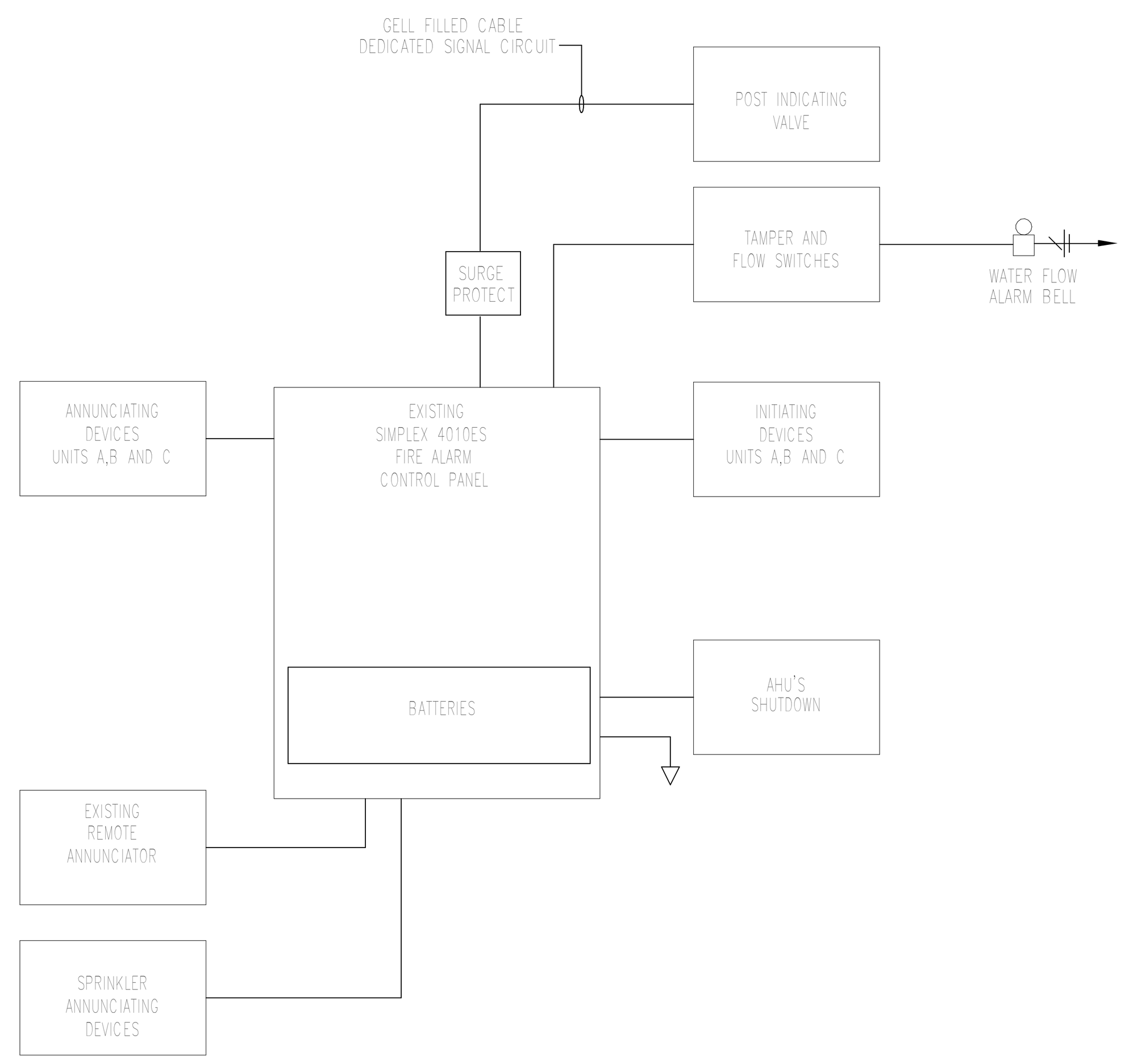
DESIGNATION	EQUIPMENT	EQUIPMENT				DISCONNECT		STARTER			STARTER PROVIDED BY		CONTROLS	NOTES
		HP	FLA	PHASE	VOLTAGE	FUSE CLIP	FUSE SIZE	TYPE	NEMA SIZE	NEMA ENCL	ELECTRICAL CONTRACTOR	MECHANICAL CONTRACTOR		
MS1	EF-B-3	1/6	4.4	1	120	HP	HP	MANUAL	HP	3R	X		OCC SENSOR	1,2,5
MS2	EF-B-1	1/4	5.8	1	120	30	9	FVNR	0	3R	X		TEMP CONTROL	1,2,3,4,5
MS3	EF-B-2	1/4	5.8	1	120	30	9	FVNR	0	3R	X		TEMP CONTROL	1,2,3,4,5
MS4	EF-A-3	1/6	4.4	1	120	30	7	FVNR	0	3R	X		OCC SENSOR	1,2,5
MS5	RTU-B-1	–	130	3	208	200	175	VFD	5	3R		X	TEMP CONTROL	1,2,3,4,5
MS6	EF-A-1	1/4	5.8	1	120	30	9	FVNR	0	3R	X		TEMP CONTROL	1,2,3,4,5
MS7	EF-A-2	1/6	4.4	1	120	HP	HP	MANUAL	HP	3R	X		OCC SENSOR	1,2,5
MS8	EF-C-5	1/4	5.8	1	120	30	9	FVNR	0	3R	X		TEMP CONTROL	1,2,3,4,5
MS9	EF-C-3	1/4	5.8	1	120	30	9	FVNR	0	3R	X		TEMP CONTROL	1,2,3,4,5
MS10	EF-C-1	1/4	5.8	1	120	30	9	FVNR	0	3R	X		TEMP CONTROL	1,2,3,4,5
MS11	EF-C-2	1/4	5.8	1	120	30	9	FVNR	0	3R	X		TEMP CONTROL	1,2,3,4,5
MS12	EF-C-4	1/4	5.8	1	120	30	9	FVNR	0	3R	X		WALL SWITCH	1,2,3,4,5
MS13	EF-C-6	1/6	4.4	1	120	HP	HP	MANUAL	HP	3R	X		OCC SENSOR	1,2,5
MS14	EF-A-4	1/6	4.4	1	120	HP	HP	MANUAL	HP	3R	X		OCC SENSOR	1,2,5
MS15	AHU-2	–	56	3	208	100	80	VFD	–	1		X	TEMP CONTROL	1,2,3,4,5
MS16	AHU-B-1	–	56	3	208	100	80	VFD	–	1		X	TEMP CONTROL	1,2,3,4,5
MS17	BP-1	3/4	3.2	3	208	30	5	FVNR	0	1	X		TEMP CONTROL	1,2,3,4,5
MS18	BP-2	3/4	3.2	3	208	30	5	FVNR	0	1	X		TEMP CONTROL	1,2,3,4,5
MS19	BP-3	3/4	3.2	3	208	30	5	FVNR	0	1		X	TEMP CONTROL	1,2,3,4,5
MS20	P-1	7.5	25.3	3	208	60	40	VFD	1	1		X	TEMP CONTROL	1,2,3,4,5
MS21	P-2	7.5	25.3	3	208	60	40	VFD	1	1	X		TEMP CONTROL	1,2,3,4,5
MS22	AHU-A-1	–	60	3	208	100	90	VFD	–	1		X	TEMP CONTROL	1,2,3,4,5
MS23	RTU-C-1	–	203.6	3	208	400	300	VFD	5	3R		X	TEMP CONTROL	1,2,3,4,5
MS24	CU-C-1		102	3	208	200	150	VFD	5	3R		X	TEMP CONTROL	1,2,3,4,5
MS25	AHU-C-1	–	40	3	208	100	60	VFD	–	1		X	TEMP CONTROL	1,2,3,4,5

NOTES:
1. MOTOR CONNECTIONS, STARTERS, FUSES AND DISCONNECT SWITCH INSTALLED BY ELECTRICAL CONTRACTOR.
2. DISCONNECT SWITCH PROVIDED BY ELECTRICAL CONTRACTOR.
3. H-O-A SELECTOR WITH NEON LAMPS.
4. 120V COIL W/ FUSED PRIMARY AND SECONDARY; (2) AUX CONTACTS- CONVERTIBLE; PHASE REVERSAL AND PHASE LOSS RELAYS.
5. PILOT LIGHT.
6. DISCONNECT SWITCH AND CONTROL PANEL PROVIDED BY UNIT MANUFACTURER. CONTRACTOR TO MAKE SINGLE POINT CONNECTION AT UNIT.
7. MOUNT ON FREESTANDING UNI-STRUT RACK.
8. REDUCED VOLTAGE AUTO-TRANSFORMER TYPE.



AUDIO SYSTEM RISER DIAGRAM

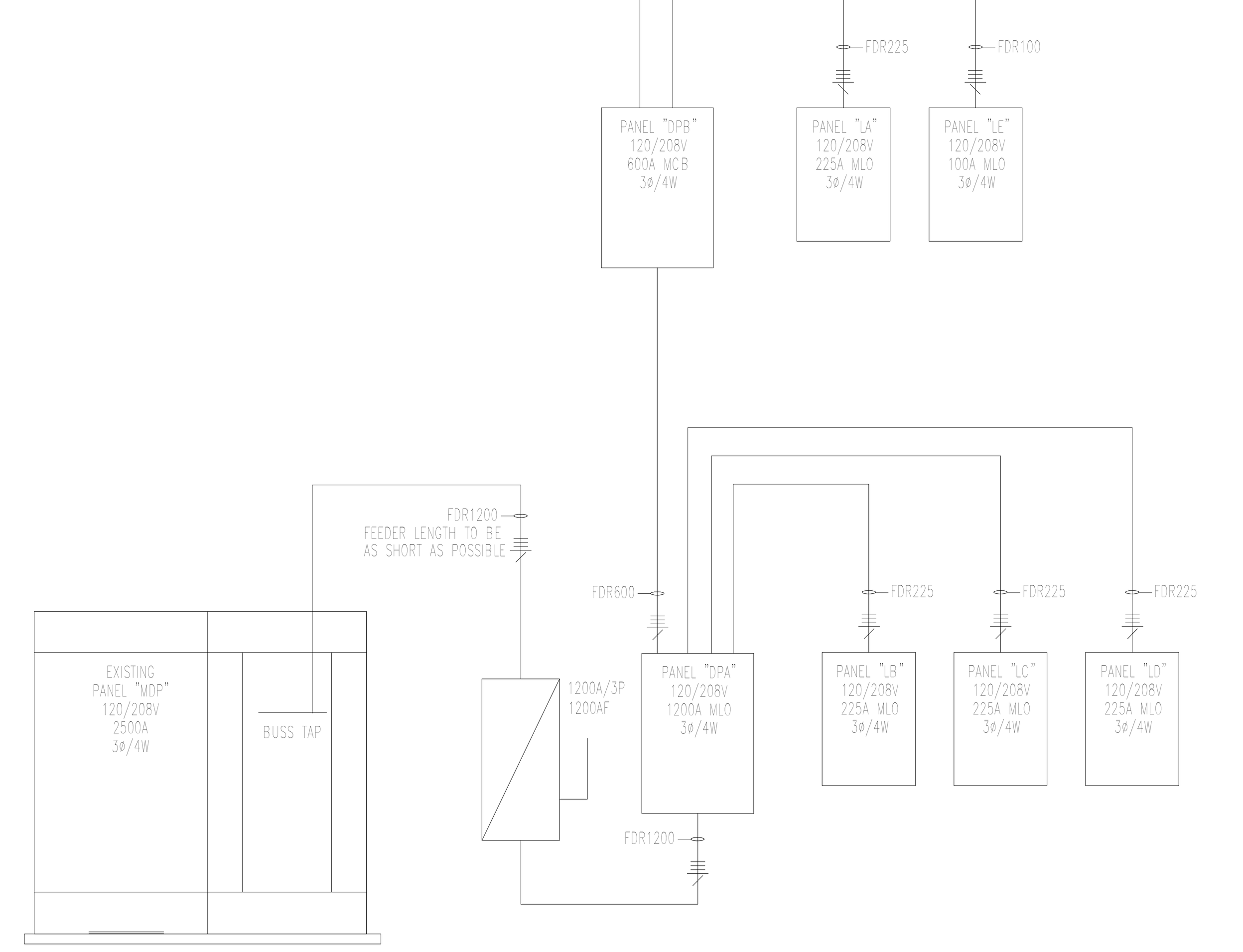
NO SCALE



FIRE ALARM SYSTEM RISER DIAGRAM

NO SCALE

2



POWER RISER DIAGRAM

NO SCALE

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STAIR ASSOCIATES INC.
MECHANICAL / ELECTRICAL ENGINEERS

PROJECT:
MSD OF WARREN TOWNSHIP
PLEASANT RUN ELEMENTARY SCHOOL
RENOVATION & ADDITION
1800 N. FRANKLIN RD. INDIANAPOLIS, IN 46219

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REVISIONS:

2	Addendum 2	3-24-2021

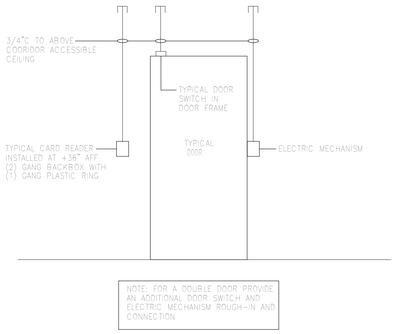
ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	SGD	WWH

DRAWING TITLE:
Electrical Schedules and Details

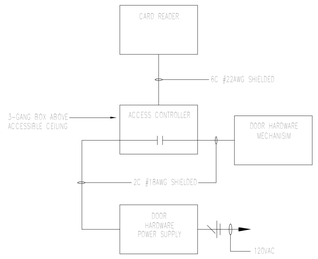
CERTIFIED BY:
WOODLAND WARD HOLM
REGISTERED
No. PE60021458
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWING NUMBER
E301

PROJECT NUMBER
2020061/1371



TYPICAL CARD ACCESS SYSTEM
AND ELECTRIC STRIKE ROUGH-IN
NO SCALE



ACCESS CONTROL RISER
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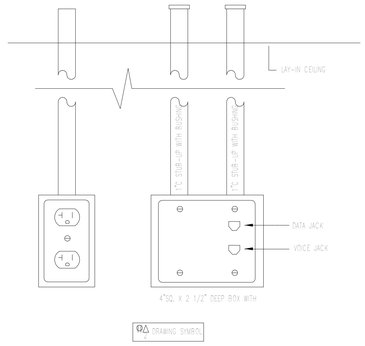

DATA AND POWER DETAIL
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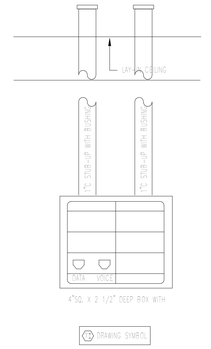

TECHNOLOGY INPUT DETAL
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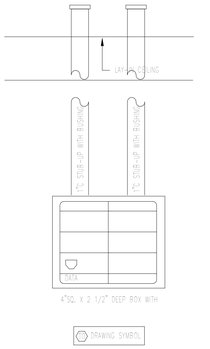

TECHNOLOGY OUTPUT DETAIL
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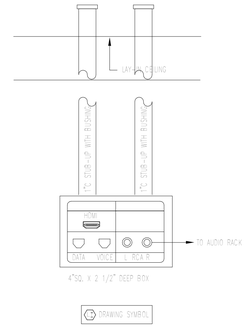

LOCAL INPUT DETAL
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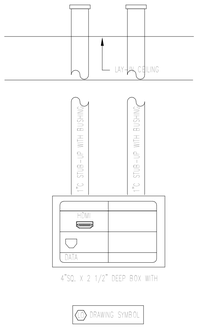

LOCAL OUTPUT DETAIL
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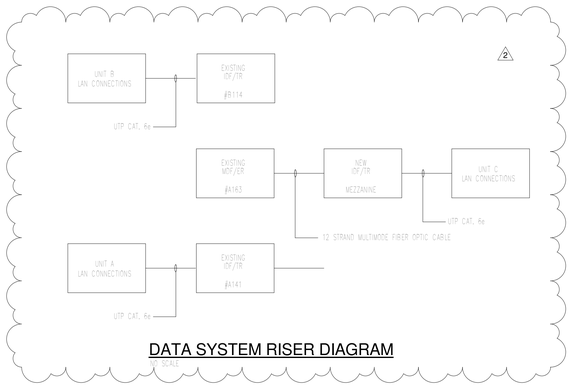
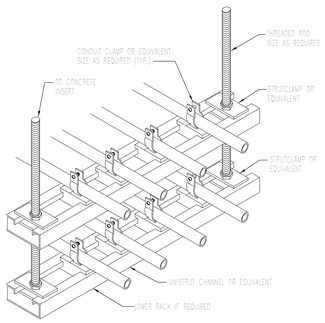


DATA SYSTEM RISER DIAGRAM
NO SCALE

SURFACE RACEWAY SCHEDULE

DESIGNATION	DESCRIPTION	MANUFACTURER	FILL CAPACITIES
⊲▽⊲▽⊲	ALUMINUM RACEWAY; DIVIDER FOR BOTH POWER AND LOW VOLTAGE CABLES; REMOVABLE TAMPERPROOF COVER; 20A RECEPTACLES W/ GROUND PROVISION FOR DATA DEVICES ALL ACCESSORIES TO PROVIDE A COMPLETE RACEWAY SYSTEM; NOMINALLY 2-7/8" X 1-7/8" SATIN ANODIZED ALUMINUM FINISH	WIREMOLD AL3300	12AWG THWN: 44 CAT 5 (40% FILL): 9 COAX RG6 (40% FILL): 6

SURFACE RACEWAY DETAIL
NO SCALE



2-1/2" AND LARGER
CONDUIT SUPPORT DETAIL
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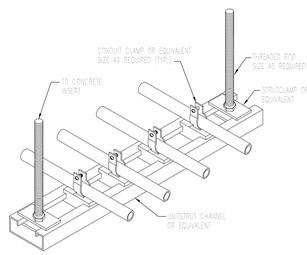
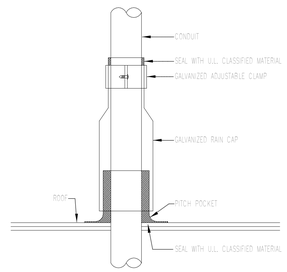
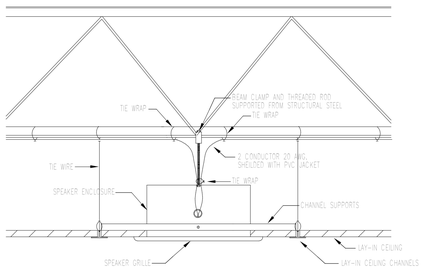


2-1/2" AND SMALLER
CONDUIT SUPPORT DETAIL
NO SCALE



TYPICAL CONDUIT ROOF PENETRATION
NO SCALE



LAY-IN CEILING SPEAKER DETAIL
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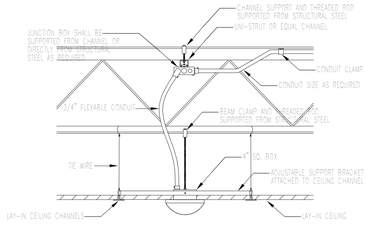

INTERIOR CAMERA MOUNTING DETAIL
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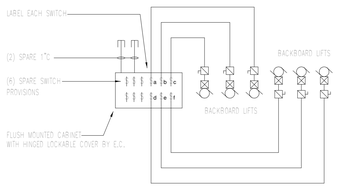

BACKBOARD CONTROLS
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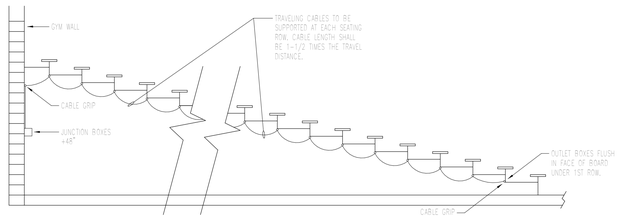

BLEACHER WIRING DIAGRAM
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02/26/21	SGD	WWH

DRAWING TITLE:
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CERTIFIED BY:
WOODLAND WARD WWH REGISTERED PROFESSIONAL ENGINEER
No. PE60021458
STATE OF INDIANA

DRAWING NUMBER
E302

PROJECT NUMBER
2020061/1371

OCCUPANCY SENSOR SCHEDULE

SYMBOL	TYPE	DESCRIPTION
D	WS1	WALL MOUNT SINGLE POLE DIMMER, 0-10V DIMMING
O	OS1	CEILING MOUNT OCCUPANCY SENSOR
O	OS2	WALL OCCUPANCY SENSOR WITH ON/OFF SWITCH

NOTES:
1. ALL SENSOR LOCATIONS ARE APPROXIMATE, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
2. LOCATE ULTRASONIC SENSORS MINIMUM 6' FROM HVAC SUPPLY AND RETURN VENTS.
3. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS, RECOMMENDED PLACEMENT AND FIELD VERIFICATION OF CIRCUITS WITHIN RESPECT TO POWER PLACEMENT.
4. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER AND CONTROL MODULES.
5. SENSORS MOUNTED OVER THE DOOR MUST BE PLACED ONE FOOT INSIDE THE THRESHOLD.
6. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SENSOR BILL OF MATERIALS COMPLIES WITH THE SENSOR DESIGN AND LAYOUT SPECIFICATIONS.
7. CONTRACTOR IS RESPONSIBLE FOR INSTALLING EQUIPMENT IN COMPLIANCE WITH LOCAL CODE.
8. PROVIDE A CONTACT TO CONTROL HVAC SYSTEM WITHIN THE ROOM AS THE SENSOR
9. LIGHTS ARE OCCUPANCY AUTO ON/ AUTO OFF UNLESS NOTED OTHERWISE

CONTACTOR SCHEDULE

CONTACTOR	LOAD	TYPE	CONTACT RATING	POLE QTY	COIL VOLTAGE	CIRCUITS CONTROLLED	NOTE
PL-1	PARKING LOT	MECH HELD	30A	3	120	LA24,26	1,2
BL-1	BUILDING EXTERIOR	MECH HELD	30A	3	120	LA28	1,2
GM-1	GYMNASIUM	ELEC HELD	30A	3	120	LA30,32,34,36	-

NOTES:
1. HOA CONTROL
2. CONNECT TO TEMPERATURE CONTROL SYSTEM FOR CLOCK INPUT

THEATRICAL LIGHTS

TYPE	DESCRIPTION	VOLT	LAMP NO. and TYPE	MOUNT	LENS	REMARKS	MANUFACTURER
K1	(5) FIVE 72" BORDER LIGHT - BAKED BLACK ENAMEL FINISH 18 GAUGE EXTRUDED AND SHEET ALUMINUM CONSTRUCTION, ACCESSORY SLOTS PER COMPARTMENT, CONVECTION COOLED, NEUTRIK POWER CON INPUT/OUTPUT CONNECTOR, COLOR MIXING LIGHT ENGINES FOR RGBA, 50,000 HOUR LED LIFE DMX-512A VIA 5 PIN XLR WITH 8 OR 16 BIT RESOLUTION, SELECTABLE PER LIGHT ENGINE PER FIXTURE, PRESET CONFIGURATION FOR CELL BY CELL, WHOLE FIXTURE, 3 OR 4 CIRCUIT EMULATION CONTROL DMX512 SEVEN SCENE CONTROLLER RGBA CAPABLE THREE WALL BOX MOUNTED AND ONE REMOTE MOUNT CONTROL LOCATIONS.	120	RGBA LED	PIPE BATTON BLACK SAFETY CABLE		INCLUDE: ALL HARDWARE & ACCESSORIES REQUIRED PER OWNER & MANUFACTURER	ALTMAN SS-STR-6-12-RGBA-BK COLORTRAN LEHIGH E.T.C.

NOTES:
1. LIGHT FIXTURE DESIGNATIONS ARE THE SAME FOR LAY-IN CEILING AND DRY WALL CEILING. CONTRACTOR TO VERIFY CEILING TYPE PRIOR TO ORDERING FIXTURES.
2. ELECTRICAL CONTRACTOR IS TO PROVIDE ALL NECESSARY HARDWARE AND ACCESSORIES FOR COMPLETE INSTALLATION OF LIGHT FIXTURES ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
3. ALL FIXTURES TO BE LISTED IN THESE CONFIGURATIONS BY DESIGN LIGHT CONSORTIUM.
4. ALL FIXTURES REQUIRED TO INCLUDE "LIGHTING FACTS" SHEET.

EXTERIOR LED LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	VOLT	LAMP NO. and TYPE	MOUNT	LENS	REMARKS	MANUFACTURER
LE1	6" APERTURE DOWNLIGHT NOMINALLY 5-1/2"W x 5-1/2"T, STEEL HOUSING, LED AND DRIVER ACCESSIBLE FROM BELOW; L70@50K HOURS	120	3000 LUMENS 4000°K	SOFFIT RECESSED	LENSED	ONE HIGH EFFICIENCY COLD WEATHER DRIVER 30 INPUT WATTS	LITHONIA LDN6 PORTFOLIO LD6 PRESCOLITE LC6
LE2	WALLPACK, WET LABEL TYPE 3 MEDIUM DISTRIBUTION; DARK BRONZE FINISH HEIGHT INDICATED ON PLANS	120	5000 LUMEN 4000K	WALL		ONE HIGH EFFICIENCY COLD WEATHER DRIVER 50 INPUT WATTS	LITHONIA WSQ LED McGRAW EDISON-IMPACT ELITE HUBBELL GEOPAK S2
LE3	SURFACE MOUNTED ROUND LED SOFFIT LIGHT; FULL LENSE, 13" DIAMETER, WET LABEL; DARK BRONZE FINISH	120	2200 LUMEN 4000K	SURFACE-REPLACES RECESSED FIXTURE		ONE HIGH EFFICIENCY COLD WEATHER DRIVER 24 INPUT WATTS	KENALL MILLENIUM ROUND LUMINAIRE ANYX 13 NEWSTAR NSR VR
	SEE ELECTRICAL SITE PLAN FOR ADDITIONAL EXTERIOR LIGHT FIXTURES.						

NOTES:
1. LIGHT FIXTURE DESIGNATIONS ARE THE SAME FOR LAY-IN CEILING AND DRY WALL CEILING. CONTRACTOR TO VERIFY CEILING TYPE PRIOR TO ORDERING FIXTURES.
2. ELECTRICAL CONTRACTOR IS TO PROVIDE ALL NECESSARY HARDWARE AND ACCESSORIES FOR COMPLETE INSTALLATION OF LIGHT FIXTURES ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
3. ALL FIXTURES TO BE LISTED IN THESE CONFIGURATIONS BY DESIGN LIGHT CONSORTIUM.
4. ALL FIXTURES REQUIRED TO INCLUDE "LIGHTING FACTS" SHEET.

EMERGENCY LIGHT FIXTURE SCHEDULE

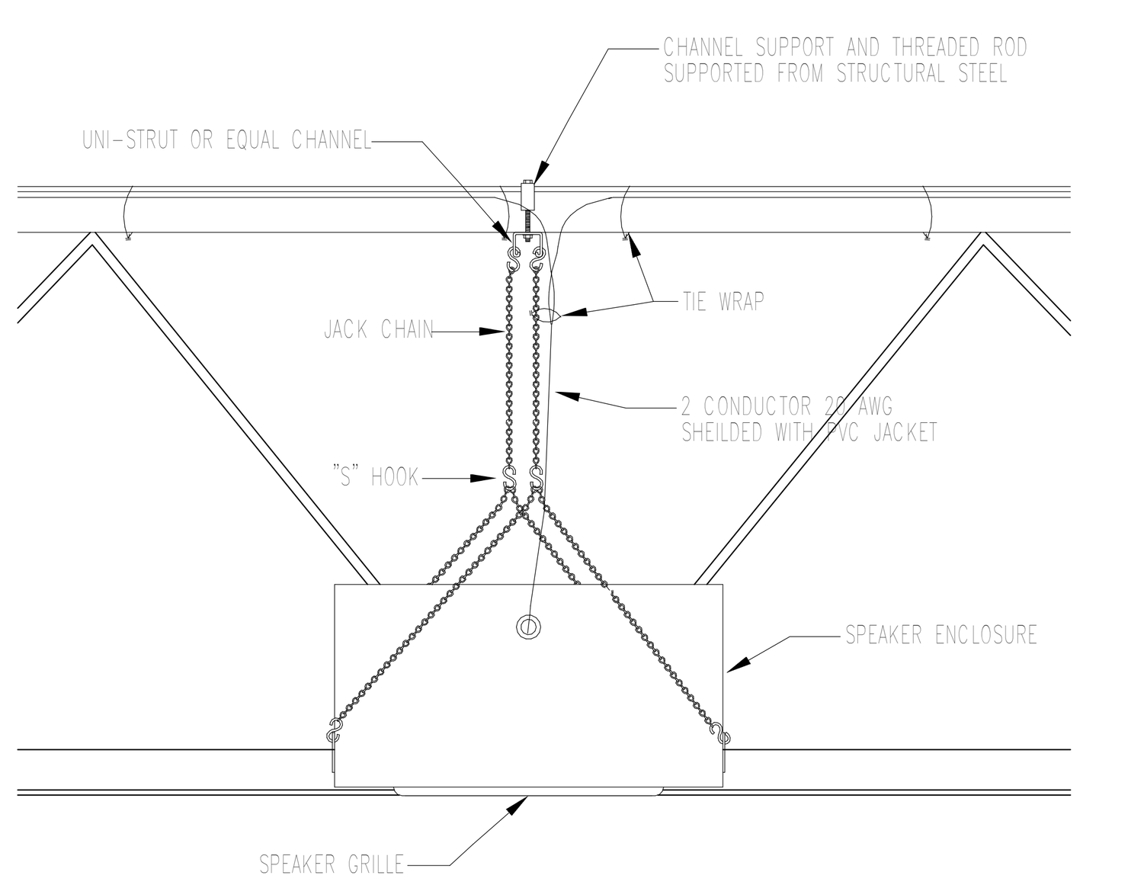
TYPE	DESCRIPTION	VOLT	LAMP NO. and TYPE	MOUNT	LENS	REMARKS	MANUFACTURER
⊗	NOMINALLY 12-1/8"W X 8-3/8"T X 1-1/2"D EXIT LIGHT, CAST ALUMINUM HOUSING WITH MATTE BLACK FINISH, BRUSHED ALUMINUM FACE RED* STENCIL LETTERS - KNOCKOUT ARROWS, DOWNLIGHT DIFFUSER, SOLID STATE TRANSFER SWITCH, LOW VOLTAGE DISCONNECT, TEST SWITCH CHARGE/READY LIGHT, LEAD CALCIUM BATTERY, SOLID STATE CHARGER.	120	LED	CEILING OR WALL AS INDICATED		*COLOR BY ARCHITECT	DUAL-LITE EMERGI-LITE LITHONIA SURE-LITES

NOTES:
1. LIGHT FIXTURE DESIGNATIONS ARE THE SAME FOR LAY-IN CEILING AND DRY WALL CEILING. CONTRACTOR TO VERIFY CEILING TYPE PRIOR TO ORDERING FIXTURES.
2. ELECTRICAL CONTRACTOR IS TO PROVIDE ALL NECESSARY HARDWARE AND ACCESSORIES FOR COMPLETE INSTALLATION OF LIGHT FIXTURES ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
3. ALL FIXTURES TO BE LISTED IN THESE CONFIGURATIONS BY DESIGN LIGHT CONSORTIUM.
4. ALL FIXTURES REQUIRED TO INCLUDE "LIGHTING FACTS" SHEET.

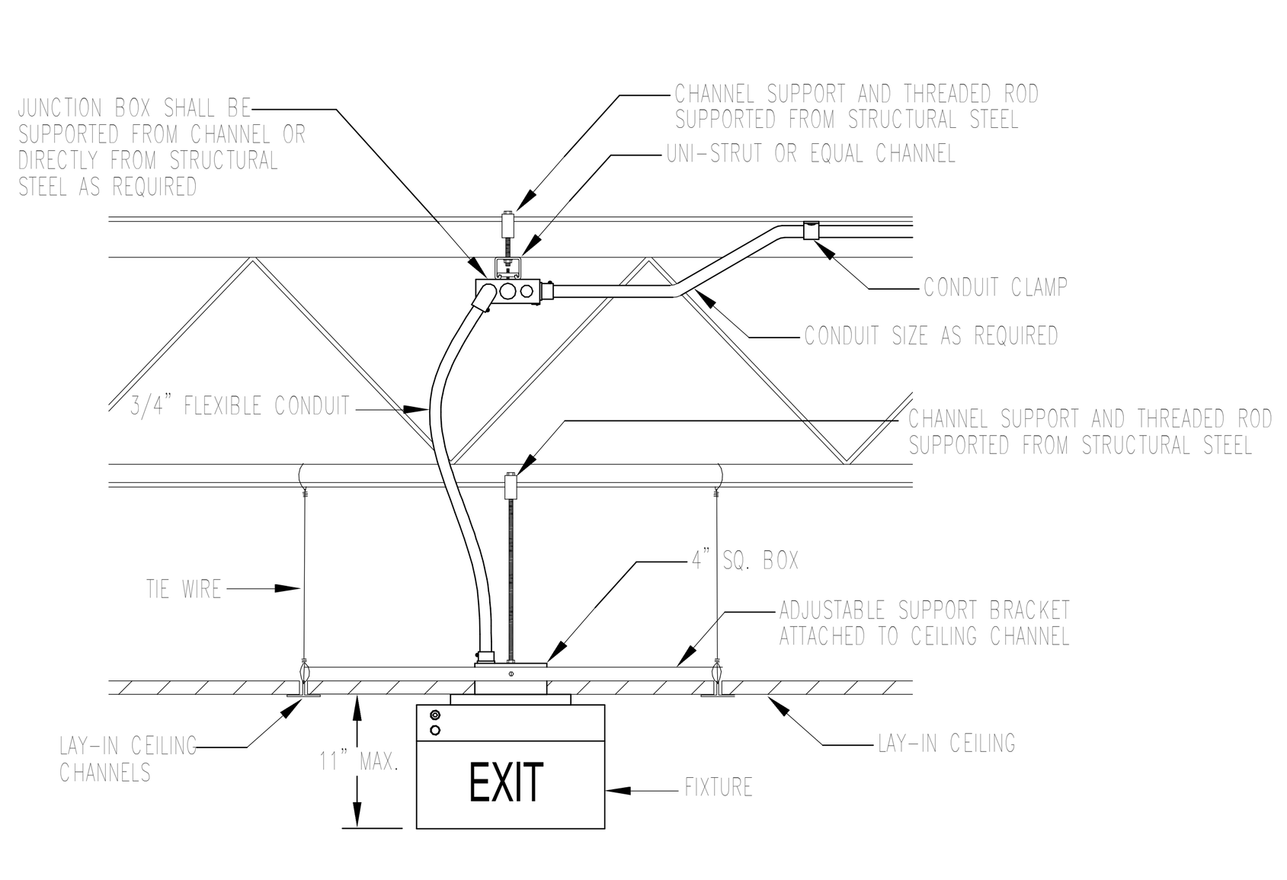
LED LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	VOLT	LAMP NO. and TYPE	MOUNT	LENS	REMARKS	MANUFACTURER
FP	EXISTING FLAT PANEL LIGHT FIXTURE						
L1	2'x4' TROFFER, 4.5"D (MAX.) DIE FORMED CODE GAUGE STEEL HOUSING, FLUSH STEEL DOOR, SPRING LOADED CAM LATCHES, WHITE BAKED ENAMEL FINISH, L80@50K HOURS	120	4800 LUMENS 4000°K	CEILING RECESSED	ARCHITECTURAL	0-10V DIMMING DRIVER DOWN TO 10%, MINIMUM 40 INPUT WATTS	LITHONIA BLTBA METALUX CRUZE SB COLUMBIA RLA
L2	2'x4' TROFFER, 4.5"D (MAX.) DIE FORMED CODE GAUGE STEEL HOUSING, FLUSH STEEL DOOR, SPRING LOADED CAM LATCHES, WHITE BAKED ENAMEL FINISH, L80@50K HOURS	120	3000 LUMENS 4000°K	CEILING RECESSED	ARCHITECTURAL	0-10V DIMMING DRIVER DOWN TO 10%, MINIMUM 25 INPUT WATTS	LITHONIA BLTBA METALUX CRUZE SB COLUMBIA RLA
L3	2'x4' TROFFER, 4.5"D (MAX.) DIE FORMED CODE GAUGE STEEL HOUSING, FLUSH STEEL DOOR, SPRING LOADED CAM LATCHES, WHITE BAKED ENAMEL FINISH, L80@50K HOURS	120	6000 LUMENS 4000°K	CEILING RECESSED	ARCHITECTURAL	0-10V DIMMING DRIVER DOWN TO 10%, MINIMUM 50 INPUT WATTS	LITHONIA BLTBA METALUX CRUZE SB COLUMBIA RLA
L4	1'x4' EDGE LIT LED FLAT PANEL; ALUMINUM CONSTRUCTION L80@50K HOURS	120	4000 LUMENS 4000°K	HARD CEILING RECESSED	FLAT PANEL	0-10V DIMMING DRIVER DOWN TO 10%, MINIMUM 40 INPUT WATTS	LITHONIA CPX METALUX FP COLUMBIA CFP
L5	2'x2' TROFFER, 4.5"D (MAX.) DIE FORMED CODE GAUGE STEEL HOUSING, FLUSH STEEL DOOR, SPRING LOADED CAM LATCHES, WHITE BAKED ENAMEL FINISH, L80@50K HOURS	120	3000 LUMENS 4000°K	CEILING RECESSED	ARCHITECTURAL	0-10V DIMMING DRIVER DOWN TO 10%, MINIMUM 30 INPUT WATTS	LITHONIA BLTBA METALUX CRUZE SB COLUMBIA RLA
L6	2'x4' TROFFER, 4.5"D (MAX.) DIE FORMED CODE GAUGE STEEL HOUSING, FLUSH STEEL DOOR, SPRING LOADED CAM LATCHES, WHITE BAKED ENAMEL FINISH, L80@50K HOURS	120	4800 LUMENS 4000°K	CEILING RECESSED	STANDARD	0-10V DIMMING DRIVER DOWN TO 10%, MINIMUM 40 INPUT WATTS	LITHONIA GTLED METALUX GRLED COLUMBIA LJT
L7	2'x4' TROFFER, 4.5"D (MAX.) DIE FORMED CODE GAUGE STEEL HOUSING, FLUSH STEEL DOOR, SPRING LOADED CAM LATCHES, WHITE BAKED ENAMEL FINISH, L80@50K HOURS	120	3000 LUMENS 4000°K	CEILING RECESSED	STANDARD	0-10V DIMMING DRIVER DOWN TO 10%, MINIMUM 25 INPUT WATTS	LITHONIA GTLED METALUX GRLED COLUMBIA LJT
L8	2'x2' TROFFER, 4.5"D (MAX.) DIE FORMED CODE GAUGE STEEL HOUSING, FLUSH STEEL DOOR, SPRING LOADED CAM LATCHES, WHITE BAKED ENAMEL FINISH, L80@50K HOURS	120	3000 LUMENS 4000°K	HARD CEILING RECESSED	STANDARD	0-10V DIMMING DRIVER DOWN TO 10%, MINIMUM 25 INPUT WATTS	LITHONIA GTLED METALUX GRLED COLUMBIA LJT
L9	48" OR 96", PER PLAN, STRIPLIGHT, WHITE BAKED ENAMEL FINISH; L80@50K HOURS	120	5000 LUMENS/48" 4000°K	SUSPENDED AIRCRAFT CABLE	LENSED	0-10V DIMMING DRIVER DOWN TO 10%, MINIMUM 50 INPUT WATTS/48"	LITHONIA ZL1N METALUX 4SNLED COLUMBIA MPS
L9S	48" OR 96", PER PLAN, STRIPLIGHT, WHITE BAKED ENAMEL FINISH; L80@50K HOURS	120	5000 LUMENS/48" 4000°K	CEILING SURFACE	LENSED	0-10V DIMMING DRIVER DOWN TO 10%, MINIMUM 50 INPUT WATTS/48"	LITHONIA ZL1N METALUX 4SNLED COLUMBIA MPS
L10	24" WALL MOUNTED LIGHT; CODE GAUGE COLD-ROLLED STEEL HOUSING WHITE BAKED ENAMEL FINISH	120	2000 LUMENS 4000°K	WALL MOUNT	LENSED	0-10V DIMMING DRIVER DOWN TO 10%, MINIMUM 20 INPUT WATTS	LITHONIA WL2 METALUX 2SWLED COLUMBIA ESCALATE
L11	48" WALL MOUNTED LIGHT WITH INTEGRAL OCCUPANCY SENSOR CODE GAUGE COLD-ROLLED STEEL HOUSING WHITE BAKED ENAMEL FINISH	120	3000 LUMENS 4000°K	WALL MOUNT	LENSED	ELECTRONIC DRIVER 25 INPUT WATTS	LITHONIA WL4 METALUX 4SWLED COLUMBIA ESCALATE
L12	NOT USED						
L13	GYMNASIUM LIGHT WITH REFLECTOR; SUSPENDED FROM THE STRUCTURE WITH BOTTOM OF FIXTURE AT APPROXIMATELY 24'-0" AFF; WHITE DIE-CAST ALUMINUM HOUSING	120	24000 LUMENS 4000°K	SUSPENDED FROM STRUCTURE	LENSED	0-10V DIMMING DRIVER DOWN TO 10%, MINIMUM 200 INPUT WATTS	METALUX UHB LITHONIA JCBL HUBBELL CRN
L14	8" APERTURE DOWNLIGHT NOMINALLY 7-1/2"W x 7-1/2"T, STEEL HOUSING, LED AND DRIVER ACCESSIBLE FROM BELOW; L70@50K HOURS	120	3000 LUMENS 4000°K	HARD CEILING RECESSED	LENSED	0-10V DIMMING DRIVER DOWN TO 10%, MINIMUM 30 INPUT WATTS	LITHONIA HALO PRESCOLITE
L15	HIGH PERFORMANCE LED SCONCE WITH REMOTE DC INPUT FOR EMERGENCY OPERATION ON SAME CIRCUIT. PROVIDE INVERTER; COLOR TO BE WHITE.	120	2000 LUMENS 4000°K	WALL MOUNT ABOVE DOOR			DUAL-LITE PGN EMERGI-LITE SURE-LITES
L15B	SAME AS L15 EXCEPT DARK BRONZE IN COLOR						

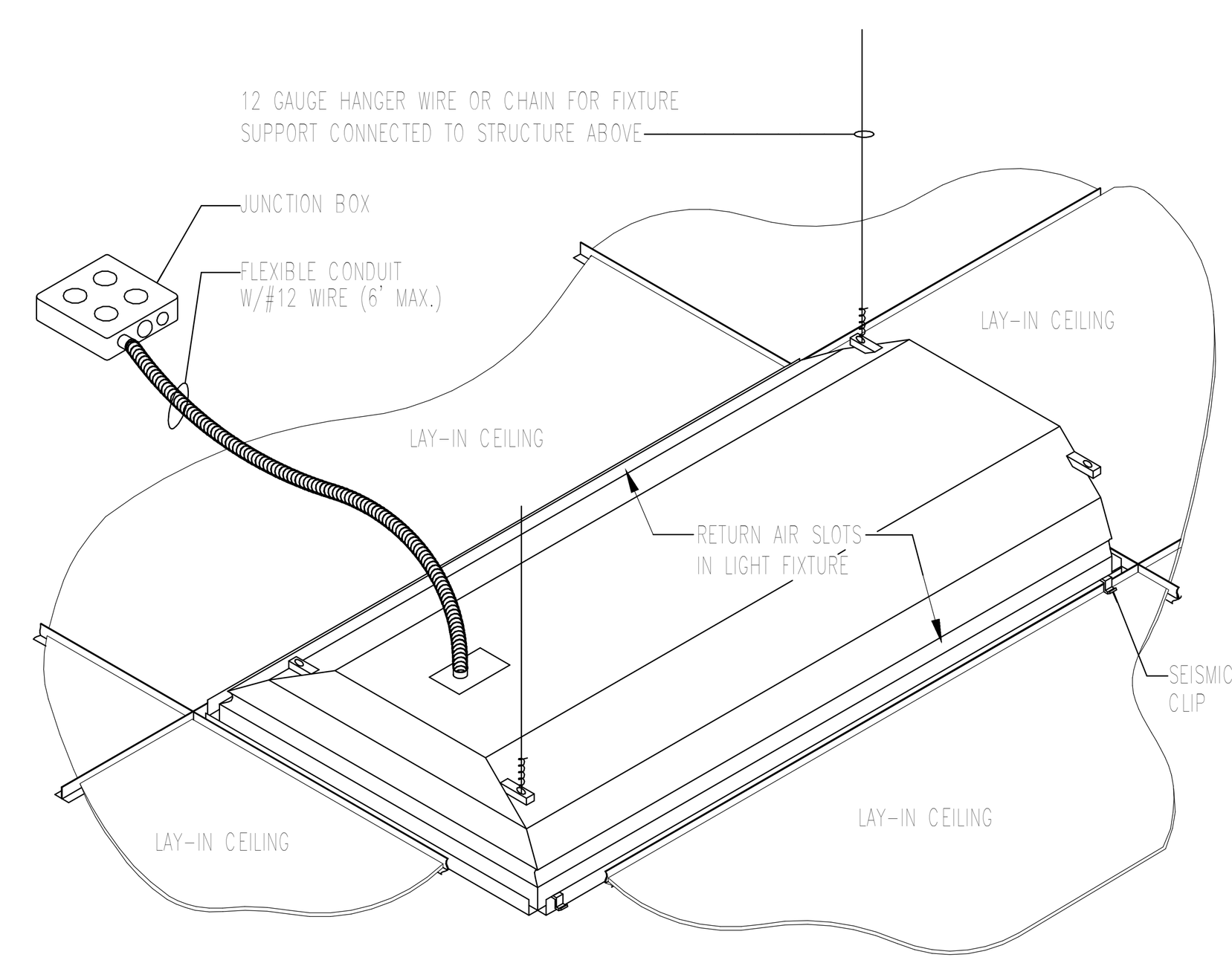
NOTES:
1. LIGHT FIXTURE DESIGNATIONS ARE THE SAME FOR LAY-IN CEILING AND DRY WALL CEILING. CONTRACTOR TO VERIFY CEILING TYPE PRIOR TO ORDERING FIXTURES.
2. ELECTRICAL CONTRACTOR IS TO PROVIDE ALL NECESSARY HARDWARE AND ACCESSORIES FOR COMPLETE INSTALLATION OF LIGHT FIXTURES ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
3. ALL FIXTURES TO BE LISTED IN THESE CONFIGURATIONS BY DESIGN LIGHT CONSORTIUM.
4. ALL FIXTURES REQUIRED TO INCLUDE "LIGHTING FACTS" SHEET.



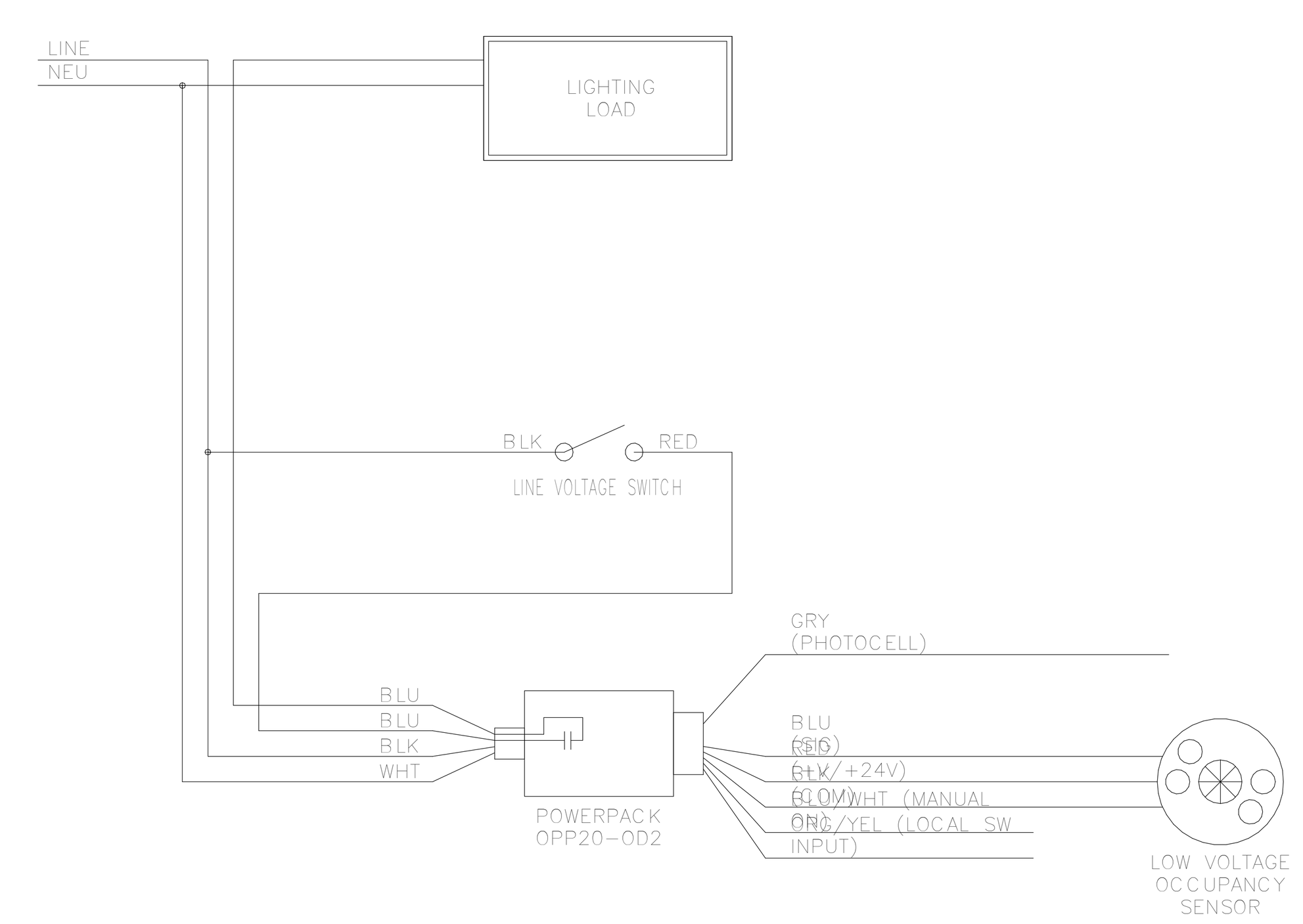
SUSPENDED SPEAKER
NO SCALE



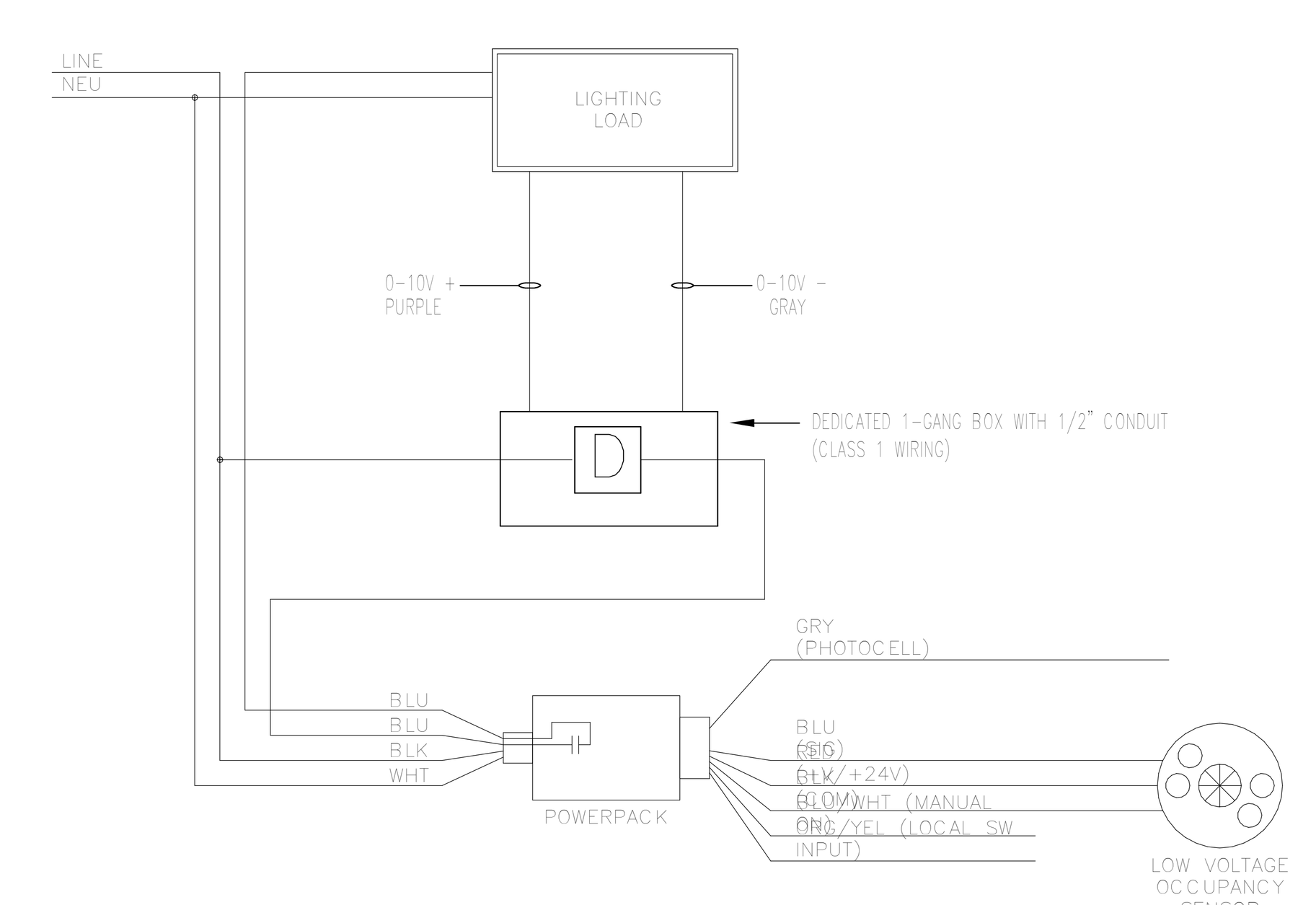
LAY-IN CEILING EXIT LIGHT INSTALLATION DETAIL
NO SCALE



LAY-IN LIGHT FIXTURE DETAIL
NO SCALE



POWER PACK LINE VOLTAGE SWITCHING WIRING DIAGRAM
NO SCALE



POWER PACK LINE VOLTAGE SWITCHING WITH DIMMING WIRING DIAGRAM
NO SCALE

CSO
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STAIR ASSOCIATES INC.
MECHANICAL / ELECTRICAL ENGINEERS

PROJECT:
MSD OF WARREN TOWNSHIP
PLEASANT RUN ELEMENTARY SCHOOL RENOVATION & ADDITION
1800 N. FRANKLIN RD. INDIANAPOLIS, IN 46219

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

REVISIONS:

2	Addendum 2	3-24-2021

ISSUE DATE	DRAWN BY	CHECKED BY
02/26/21	SGD	WWH

DRAWING TITLE:
Electrical Schedules and Details

CERTIFIED BY:
WOODLAND WARD HOLM REGISTERED No. PE60021458 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWING NUMBER
E303

PROJECT NUMBER
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