312 Plum Street, Suite 700
Cincinnati, OH 45202
(513) 381-2112

May 25, 2023

ADDENDUM 1

TO THE DRAWINGS, SPECIFICATIONS AND CONTRACT DOCUMENTS FOR:

EARLY CHILDHOOD RENOVATION PHASE 2

FOR

Winton Woods City Schools
825 Waycross Road, Suite A,
Cincinnati, OH 45240

Comm. No. 2021091.02

TO ALL BIDDERS:

This Addendum supplements, amends and takes precedence over the original Drawings and Specifications, and shall be taken into account when preparing proposals, and shall become part of the Contract Documents. Receipt of this Addendum must be entered on the bidder's Bid Form. Bidder is cautioned to read the entire addendum and to check that all pages of the Addendum have been included in the Bidder's copy of the Addendum.

GENERAL ITEMS

ITEM 1 – Bid Date & Time

The bid date is being changed to June 14, 2022 at 2:00pm. Bid submission location changed to Early Childhood Building, Media Center.

ITEM 2 – Pre-Bid Agenda and Sign-In Sheets – FOR REFERENCE ONLY

Attached are the Pre-Bid Agenda and Sign-In Sheets. These are for reference only and do not modify the Contract Documents in any way.

ITEM 3 – Timing of switchgear install

Phase 1 which is currently under construction includes the replacement of switchgear for the building. That equipment is due to arrive mid-October. Following Duke Energy's hook up scheduled for early November, the switchgear will be available to Phase 2 contractor.

QUESTIONS & ANSWERS

QUESTION 1 *For room 102T, architect indicated to 13/A641 for elevation in 3/A150. And no other rest room elevation was indicated in enlarged toilet room plans in page A150. But, 13/A641 Elevation refers to typical wall tile. Does this elevation apply to all the walls of all rest rooms, or all the walls of 102T, or only one wall of 102T?*

A. Yes, per keynote A34 that is noted on each individual RR, All walls in each of those RRs are to receive wall tile to match the elevation detailed.

QUESTION 2 *Can we please request drawing A680 mentioned as note A34 on A103B ?*
Trying to figure out the 4 color ct wall pattern and hoping it may be on there .

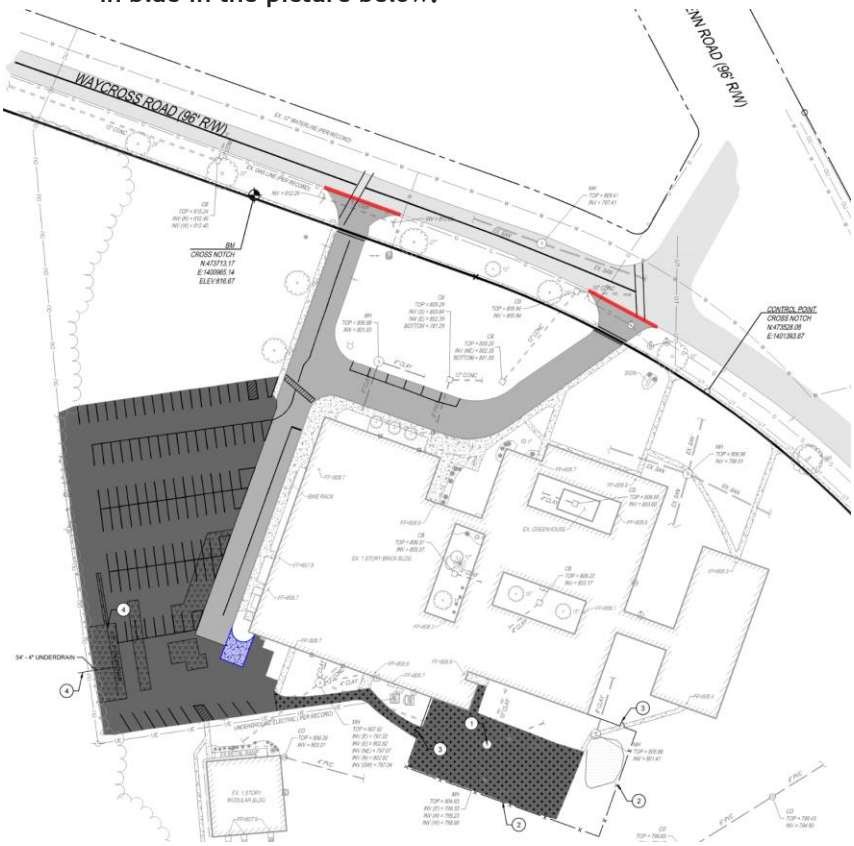
A. Keynote has been updated. Affected sheets are included in the addendum.

QUESTION 3 *C130 – The hatch for entrance drive and the hatch for Waycross Road appear to different shades, but are very close; entrance drive appears a shade darker. The similar shaded hatch description in the legend is for Crack Fill & Seal Coat Asphalt Pavement. Is the intent to Crack Fill and Seal Coat the asphalt on Waycross Road and the entrance drive; or just the entrance drive?*

A. The entrance drive is to be crack filled, and seal coated. The area of the entrance drive is slightly darker than Waycross Road. The red lines on the picture below indicate the boundary of where to stop the crack fill and seal coat.

QUESTION 4 *C130 – There is a hatch for heavy duty concrete pavement in the legend, however I could not locate where the new concrete pavement is. Could you verify location.*

- **The heavy duty concrete area is intended to be used as a dumpster pad and is shown highlighted in blue in the picture below.**



QUESTION 5 *Note D101 on page D103 indicates Alternate #1 Remove Existing Door and associated hardware, existing frame to remain. If you look at the doors with that note however the frames are dashed, indicating that they are to be removed. Can you verify intent for these openings under base bid and under alternate.*

A. The base bid condition is for those doors, frames, and hardware to remain as is. In the alternate, the intent is for the doors and hardware to be removed and replaced reusing existing frames.

QUESTION 6 *Will the contractor be responsible for providing access control?*

A. Yes, access control should be provided for doors indicated to receive access control per drawings. Additional technology information is included in this addenda.

QUESTION 7 *Will bonds be required?*

A. Yes, bonds are required.

QUESTION 8 *Will the new fire alarm be installed throughout the entire building?*

A. Yes, a new fire alarm is required for the entire building.

QUESTION 9 *Does the owner have a preferred vendor for fire alarm?*

A. No, no specific vendor is required. Owner believes other buildings in district were furnished through Johnson Controls.

QUESTION 10 *Where is the fire alarm panel location?*

A. The fire alarm panel is located on the west wall of room 145 Mechanical Equipment.

QUESTION 11 *D403 is listed as a sheet on the title page but not included in the drawings. Please clarify.*

A. D403 should be included in the drawings. It is included in the addenda drawings below.

QUESTION 12 *Can the bid time be changed from 10am to 2pm on June 14?*

A. Yes, the bid time can be changed to 2pm.

QUESTION 13 *Can contractors visit site after pre-bid meeting?*

A. Yes, by appointment. Please contact Steve Deny. denny.steve@wintonwoods.org. 513.619.2400

SPECIFICATION ITEM

ITEM 1 – Specification Section 00 41 16 – Bid Form:

Revision. Changed bid time to 2PM. Changed bid submission location, added alternate #10.

ITEM 2 – Specification Section 01 23 00 – Alternates:

Revision. Revision to Alternates specification to add Alternate #10 for Gymnasium Sound System.

ITEM 3 – Specification Section 08 71 00 – Door Hardware:

Revision. Revision to Door Hardware Specification.

ITEM 4 – Specification Section 27 51 00– Gymnasium Sound System:

Addition. Specification section that includes the sound system for the gymnasium.

ITEM 5 – Specification Section 27 51 23– Central Sound System:

Addition. Specification section that includes the central sound system.

ITEM 5 – Specification Section 28 15 00– Access Control:

Addition. Specification section that includes access control.

DRAWING ITEMS

ITEM 1 – Drawing Sheet G000:

Revision. Shows list of sheets revised in Addendum 1.

ITEM 2 – Drawing Sheet D101:

Revision. Water cooler in corridor 199 demolished.

ITEM 3 – Drawing Sheet D403:

Revision. Detail 4/D403 updated.

ITEM 4 – Drawing Sheet C100:

Revision. Standard and heavy duty concrete pavement details added/ updated.

ITEM 5 – Drawing Sheet C110:

Revision. Updated survey basemap.

ITEM 6 – Drawing Sheet C120:

Revision. Added demolition plan coded notes and demolition plan notes.

ITEM 7 – Drawing Sheet C130:

Revision. Locations of heavy duty and standard duty concrete pads added and or clarified.

ITEM 8 – Drawing Sheet C140:

Addiiton. Grading Plan sheet added.

ITEM 9 – Drawing Sheet A010:

Revision. Door hardware sets revised.

ITEM 10 – Drawing Sheet A101A:

Revision. Water cooler in corridor 199 added.

ITEM 11 – Drawing Sheet A101B:

Revision. Keynote 34 updated.

ITEM 12 – Drawing Sheet A102A:

Revision. Added Keynote A89 to clarify where raising of floor occurs.

ITEM 13 – Drawing Sheet A103A:

Revision. Wing walls added to water cooler in Corridor 100E.

ITEM 14 – Drawing Sheet A103B:

Revision. Keynote 34 updated.

ITEM 15 – Drawing Sheet P011:

A. Revised existing electric water cooler near existing group restroom to be demolished for replacement.

B. Added keynote PD4.

ITEM 16 – Drawing Sheet P201:

A. Added new EWC-1 in corridor 100C as replacement for the demolished water cooler identified on sheet P011.

ITEM 17 – Drawing Sheet P203:

A. Added new EWC-1 in corridor 100E and provided connections to new sanitary waste, vent, and domestic water systems in the adjacent chase.

ITEM 18 – Drawing Sheet P401:

A. Revise sanitary waste and vent isometric view to reflect changes indicated on plan sheets.

ITEM 19 – Drawing Sheet P403:

A. Revise supply isometric view to reflect changes indicated on plan sheets.

ITEM 20 – Drawing Sheet M102:

A. Added an egg crate grill and duct to connect to the existing kiln exhaust fan.

ITEM 21 – Drawing Sheet E000:

A. Revision. Updated Lighting Fixture schedule entries.

B. Revision. Added Communication Symbol Legend

ITEM 22 – Drawing Sheet E200:

A. Revision. Added PA speakers to rooms.

B. Clarification. Removed door hardware from previous phases.

ITEM 23 – Drawing Sheet E201:

A. Revision. Added PA speakers to rooms.

B. Clarification. Removed door hardware from previous phases.

ITEM 24 – Drawing Sheet E202:

A. Revision. Added PA speakers to rooms.

B. Clarification. Removed door hardware from previous phases.

ITEM 25 – Drawing Sheet E520:

A. Revision. Added PA speakers to Kitchen.

End of Addendum 1 items – See attached.

PRE-BID MEETING AGENDA

PROJECT: **Winton Woods Early Childhood Renovation Phase 2**
825 Waycross Road, Cincinnati, Ohio 45240

DATE: **May 24, 2023**

1. **INTRODUCTIONS AND RESPONSIBILITIES:**
   - A. Winton Woods: Steve Denny
   - B. SHP: Allison McKenzie, Emma Pevoar

2. **SIGN IN SHEET –** PLEASE PROVIDE CONTACT INFORMATION

3. **BID DATE – <u>June 14, 2023 @ 10:00 AM Local Time</u>** per the Instructions to Bidders. Submit bids in person at 825 Waycross Road, Cincinnati, OH 45240

4. Prevailing wage rates **<u>DO NOT</u>** apply to this project.

5. The General Building Permit will be applied for and will be paid for by the Owner. All other permits – and applicable fees – are the responsibility of the respective contractor(s), in accordance with the Project Manual. Bond is not required; See Project Manual for Diocesan insurance requirements.

6. **SINGLE PRIME PACKAGE:** Probable construction cost estimate: $3,900,000 base bid.

7. **MILESTONE SCHEDULE**

6/14/2023	Bids due 10:00 am local time.
8/14/2023	Notice to Proceed issued
10/01/2023	Start work on site
6/15/2024	Substantial Completion
7/15/2024	Final Completion

8. **GENERAL REVIEW OF SCOPE OF WORK**
   Single prime package; Contractor to complete selective structure demolition, renovation, and sitework as detailed in the project documents.

   Hazardous materials are not expected to be present due to prior abatement work. If suspicious materials are encountered, the Contractor shall contact the Architect immediately for further investigation.

   A portion of the building will be occupied during construction. These spaces are described in the Summary Specification Section.

   The Owner has an ongoing project in the building to replace windows, HVAC systems, and the electrical service among other work. This ongoing work will be wrapping up in Fall of this year, but there may be some overlap with the work in this Contract. The Contractor for this scope will need to cooperate with the Contractor performing the ongoing work to avoid interference.

9. **WORK HOURS:** Contractor to work during normal hours Monday thru Friday and on Saturdays with Owner approval.

10. **ALTERNATES** (see plans and specifications for full description)

11. **COMMUNICATION:**
All communication (RFI, substitution requests, clarification requests, etc.) must be received in writing, in accordance with the project manual. Questions will not be answered over the phone.

Questions should be e-mailed to: amckenzie@shp.com.

12. **QUESTIONS / COMMENTS** (Answers will be confirmed via addendum as deemed necessary)

13. **BUILDING TOUR**

Winton Woods Early Childhood Renovation Phase 2
Winton Woods City Schools
2021091.02

PREBID MEETING ATTENDANCE SHEET

May 24, 2023

	name	company name	business phone	cell phone	email
1	CHRIS TODD	Megen		513-305-0229	ctodd@megenconstruction.com
1	ROBIN BRANDON	HUDSON CONST.		513.882.5375	robin@hudsonconstruction.co
1	Nathan Williams	Graybach		513.381.4868	nathan.williams@Graybach.com
1	Brandon Ponchot	K&T Construction	9377901020	5133166448	Brandon@KTconstructioninc.com
1	Doug Dorsel	Triton	513-679-6800		ddorsel@tritonservicesinc.com
1	Ken Beatty	DSEA	513-674-1700	513-617-1537	KbeattyDdseaservices.com
1	Joe Turk	KFI	513-316-3500		jturk@kficontractors.com
1	Parker Clause	TRS M	513-260-832		PClause@TRSM.com
1	DJ Robinson	Ivey	859-371-3803		DJRobinson@Iveymechanical.com
1	Mike DuMont	Geiler	513-301-5700		MDumont@geiler.com
1	THOMAS FRANK	MARK SPALDING CO.	513-678-2560	SAME	~~THOMAS~~ Thomas@MARKSPALDINGS.com
1	Nick Scharsch	Atkins & Stang	513-242-8300		NScharsch@atkinsandstang.com

Winton Woods Early Childhood Renovation Phase 2
Winton Woods City Schools
2021091.02

PREBID MEETING ATTENDANCE SHEET

May 24, 2023

	name	company name	business phone	cell phone	email
1	Mike Dacy	BE ELECTRIC	351-7100	220-8777	Mike@BEELECTRICAL.com
1	Tim Bleh	Stithmeier Ptg	513-283-3666		info@stithmeier.com
1	Jason Hazelwood	EDC	513-616-8916		jhazelwood@edgllc.biz
1	Mark Zimmerman	Schrodde Zimmerman	859 331-0160		mzz@schrodde-zimmerman.com
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DOCUMENT 00 41 16 - BID FORM

Early Childhood Renovation

For

Winton Woods City School District

SUBMITTED BY: _____
(CONTRACTOR FIRM NAME)

SUBMITTED NO LATER THAN

2:00 p.m. - Local Time
June 14, 2023

SUBMIT BID AT:

WINTON WOODS CITY SCHOOL DISTRICT

Early Childhood Building, Media Center
825 Waycross Road
Cincinnati, OH 45240

DOCUMENTS PREPARED BY:

SHP

312 Plum Street, Suite 700

Cincinnati, Ohio 45202

Bid Form continues on next page

PART A - GENERAL NOTES

The attention of the bidder is called to Notice to Bidders / Instructions to Bidders / Supplementary Instructions to Bidders / Standard Form of Agreement Between Owner and Contractor / General Conditions / Supplementary General Conditions for specific items relating to the execution of the Bid Form. In submitting this bid, the bidder represents that they have carefully reviewed and understand these documents and agrees to the conditions of these documents. Non-compliance with any of the provisions of these documents may constitute sufficient cause for rejection of a bid.

Execute duplicate Bid Form in original for each bid submitted.

Attach Bid Security to first Bid Form.

Attach the following forms to the first Bid Form:

- Bidder's Qualifications
- Non-Collusion Affidavit

Do Not alter the wording of the Bid Form.

Bidders may attach typewritten sheet(s) providing any additional information, voluntary substitutions, or voluntary alternates for the Owner's consideration but the bid amounts contained herein must be based on the bid documents, not such voluntary substitutions or voluntary alternates.

Submit completed Bid Form along with all other required information in a sealed envelope plainly identified as to items being bid and name of bidder. See Instructions to Bidders.

The Owner reserves the right to award separate contracts for each individual item bid or to award combination bids if provided for in this form.

It is understood and agreed that each Bid Package will achieve **Substantial Completion by June 15, 2024** and **Final Completion by July 15, 2024**, per definition of AIA General Conditions. See Section 00 73 01 "Supplementary General Conditions" Article 8 – Time, including liquidated damages information.

PART B - RECEIPT OF ADDENDA

The following addenda have been received and taken into account in preparation of this bid:

Addenda No.: _____ Addenda No.: _____

Addenda No.: _____ Addenda No.: _____

Bid Form continues on next page

PART C - PROPOSAL

We, the undersigned bidder have fully examined the Contract Documents entitled: **"Early Childhood Renovation"** for **Winton Woods City School District**, dated **April 28, 2023**, as prepared by SHP, and do hereby propose to perform all Work for the applicable Contract, in accordance with the Contract Documents, for the amounts as follows:

BASE BID

This Base Bid Amount shall include the following Allowances:

Allowance No. 1: Roof Deck Repair Contingency Allowance: $20,000.
Allowance No. 2: Code Compliance Contingency Allowance: $50,000.
Allowance No. 3: Skylight Repair Contingency Allowance: $15,000.

ALL LABOR AND MATERIALS, for the sum of: $ _____

Sum in words: _____

ALTERNATES

Alternate No. 1: Replacement of seven additional classroom doors and hardware.

Add to _____ Deduct from _____ Base Bid (check one).

ALL LABOR AND MATERIALS, for the sum of: $ _____

Sum in words: _____

Add to _____ Deduct from _____ Contract Time (calendar days).

Alternate No. 2A: Courtyard ramps, concrete slabs and earthwork.

Add to _____ Deduct from _____ Base Bid (check one).

ALL LABOR AND MATERIALS, for the sum of: $ _____

Sum in words: _____

Add to _____ Deduct from _____ Contract Time (calendar days).

Alternate No. 2B: Courtyard canopies at doors.

Add to _____ Deduct from _____ Base Bid (check one).

ALL LABOR AND MATERIALS, for the sum of: $ _____

Sum in words: _____

Add to _____ Deduct from _____ Contract Time (calendar days).

Alternate No. 3: Site monument sign.

Add to _____ Deduct from _____ Base Bid (check one).

ALL LABOR AND MATERIALS, for the sum of: $ _____

Sum in words:_____

Add to _____ Deduct from _____ Contract Time (calendar days).

Alternate No. 4A: Existing locker removal, wall patching, and cubbies/casework.

Add to _____ Deduct from _____ Base Bid (check one).

ALL LABOR AND MATERIALS, for the sum of: $ _____

Sum in words:_____

Add to _____ Deduct from _____ Contract Time (calendar days).

Alternate No. 4B: Music room casework.

Add to _____ Deduct from _____ Base Bid (check one).

ALL LABOR AND MATERIALS, for the sum of: $ _____

Sum in words:_____

Add to _____ Deduct from _____ Contract Time (calendar days).

Alternate No. 5A: Manual window shades.

Add to _____ Deduct from _____ Base Bid (check one).

ALL LABOR AND MATERIALS, for the sum of: $ _____

Sum in words:_____

Add to _____ Deduct from _____ Contract Time (calendar days).

Alternate No. 5B: Motorized window shades in the cafeteria.

Add to _____ Deduct from _____ Base Bid (check one).

ALL LABOR AND MATERIALS, for the sum of: $ _____

Sum in words:_____

Add to _____ Deduct from _____ Contract Time (calendar days).

Alternate No. 6: Kitchen equipment scope.

Add to _____ Deduct from _____ Base Bid (check one).

ALL LABOR AND MATERIALS, for the sum of: $ _____

Sum in words:_____

Add to _____ Deduct from _____ Contract Time (calendar days).

Alternate No. 7: Replacement of gymnasium bleachers.

Add to _____ Deduct from _____ Base Bid (check one).

ALL LABOR AND MATERIALS, for the sum of: $ _____

Sum in words: _____

Add to _____ Deduct from _____ Contract Time (calendar days).

Alternate No. 8: Security film on glazing

Add to _____ Deduct from _____ Base Bid (check one).

ALL LABOR AND MATERIALS, for the sum of: $ _____

Sum in words: _____

Add to _____ Deduct from _____ Contract Time (calendar days).

Alternate No. 9: Playground Equipment

Add to _____ Deduct from _____ Base Bid (check one).

ALL LABOR AND MATERIALS, for the sum of: $ _____

Sum in words: _____

Add to _____ Deduct from _____ Contract Time (calendar days).

Alternate No. 10: Gymnasium Sound System

Add to _____ Deduct from _____ Base Bid (check one).

ALL LABOR AND MATERIALS, for the sum of: $ _____

Sum in words: _____

Add to _____ Deduct from _____ Contract Time (calendar days).

Bid Form continues on next page

PART D – BIDDER'S CERTIFICATION

The bidder hereby acknowledges that the following representations in this bid are material and not mere recitals:

1. Bidder has read and understands the Contract Documents and agrees to comply with all requirements of the Contract Documents, regardless of whether the bidder has actual knowledge of the requirements and regardless of any statement or omission made by the bidder which might indicate a contrary intention.

2. Bidder represents that the bid is based upon the Standards specified by the Contract Documents.

3. Bidder has visited the Project site, become familiar with local conditions and has correlated personal observations about the requirements of the Contract Documents. The bidder has no outstanding questions regarding the interpretation of the Contract Documents.

4. Bidder understands domestic steel use requirements as specified in Ohio Revised Code Section 153.011 apply to this project.

5. Bidder will enter into and execute the agreement with the Owner, if a contract is awarded on the basis of this bid, and if the bidder does not execute an agreement for any reason, other than as authorized by law, the bidder and the bidder's Surety are liable to the Owner as provided in the Ohio Revised Code and as applicable to the Owner.

6. Bidder certifies that the upon the award of a contract, it will make a good faith effort to ensure that all of its employees, while working on the site of the Project, will not purchase, transfer, use or possess illegal drugs or alcohol or abuse prescription drugs in any way.

7. Bidder agrees to furnish any information requested by the Owner to evaluate the responsibility of the bidder.

8. It is understood and agreed that the work embodied in this contract shall be substantially completed per definition of the AIA General Conditions by the milestone dates indicated in the Contract Documents.

9. Costs, per day as shown in the Table of Liquidated Damages (Section 00 73 01 – Supplementary General Conditions) will be accumulated and assessed to all prime contractors (unless specifically released in writing by the Architect or an extension of time is approved by the Architect) after this date until Substantial Completion and Final Completion are achieved, as determined by the Architect.

Bid Form continues on next page

PART E - SIGNATURE PAGE & INFORMATION ABOUT BIDDER

Legal Name of Business _____.

Name of President _____.

Name(s) of Owner (If not Corporation)

_____.

_____.

_____.

Main Office Address _____.

_____.

Company Tax identification Number: _____.

Company Website (if available): _____.

Main Office Telephone Number _____.

Main Office Contact Person _____.

Main Contact Person E-mail Address _____.

Authorized Signature_____.

Printed name and Title_____.

Date of Signature:_____ .

PART F LEAD TIMES:

Please identify lead times for materials that might arrive after Substantial Completion:

Estimated lead time for _____(after shop drawing approval) _____WEEKS

Estimated lead time for _____(after shop drawing approval) _____WEEKS

Estimated lead time for _____(after shop drawing approval) _____WEEKS

Attach other documents required

END OF DOCUMENT 00 41 16

SECTION 01 23 00 – ALTERNATES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for alternates.

1.2 DEFINITIONS

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

1.3 CLARIFICATIONS

A. Extent of work for each alternate is indicated on the drawings and/or in the associated technical specification sections; in case of any uncertainty request clarification from Architect before bidding, in time for addendum preparation.

1.4 PROCEDURES

A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
   1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.

B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.

C. Execute accepted alternates under the same conditions as other Work of the Contract.

D. Schedule: A Part 3 “Schedule of Alternates” Article is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 PREPARATION

A. Coordinate materials and their installation for each alternate with related materials and installation under other subcontracts to ensure each item is completely integrated and interfaced with related work of same and other contracts and all costs for such integration are included in the alternate Work amount.

3.2 SCHEDULE OF ALTERNATES

A. Alternate No. 1: Each bidder is requested to state the addition in cost to provide replacement doors and door hardware in the seven classroom locations indicated in the drawings.

B. Alternate No. 2A: Each bidder is requested to state the addition in cost to provide the courtyard ramps, concrete slabs and earthwork as indicated in the drawings.

C. Alternate No. 2B: Each bidder is requested to state the addition in cost to provide canopies at the courtyard doors as indicated in the drawings.

D. Alternate No. 3: Each bidder is requested to state the addition in cost to provide the site monument sign and associated electrical and earthwork as indicated in the drawings.

E. Alternate No. 4A: Each bidder is requested to state the addition in cost to remove the existing lockers, patch the associated walls and provide cubbies and casework at the locations indicated in the drawings.

F. Alternate No. 4B: Each bidder is requested to state the addition in cost to provide music room casework as indicated in the drawings.

G. Alternate No. 5A: Each bidder is requested to state the addition in cost to provide manual window shades in locations indicated in the drawings.

H. Alternate No. 5B: Each bidder is requested to state the addition in cost to provide motorized window shades including associated electrical scope for the cafeteria windows indicated in the drawings.

I. Alternate No. 6: Each bidder is requested to state the addition in cost to provide the new kitchen equipment and associated, electrical, plumbing and mechanical scopes as indicated in the drawings.

J. Alternate No. 7: Each bidder is requested to state the addition in cost to remove the existing gymnasium bleachers and provide new gymnasium bleachers as indicated in the drawings.

K. Alternate No. 8: Each bidder is requested to state the addition in cost to provide security film on glazing locations indicated in the drawings.

L. Alternate No. 9: Each bidder is requested to state the addition in cost to provide the playground equipment indicated in the drawings.

M. Alternate No. 10: Each bidder is requested to state the addition in cost to provide the gymnasium sound system indicated in the drawings and specifications.

END OF SECTION 01 23 00

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.01 SUMMARY

A. Section includes:

1. Mechanical and electrified door hardware
2. Electronic access control system components

B. Section excludes:

1. Windows
2. Cabinets (casework), including locks in cabinets
3. Signage
4. Toilet accessories
5. Overhead doors

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"
4. Division 07 Section "Joint Sealants" for sealant requirements applicable to threshold installation specified in this section.
5. Division 08 Sections:
   a. "Metal Doors and Frames"
   b. "Flush Wood Doors"
   c. "Interior Aluminum Doors and Frames"
6. Division 26 "Electrical" sections for connections to electrical power system and for low-voltage wiring.
7. Division 28 "Electronic Safety and Security" sections for coordination with other components of electronic access control system and fire alarm system.

1.02 REFERENCES

A. UL LLC

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. Keying Systems and Nomenclature
4. Installation Guide for Doors and Hardware

C. NFPA – National Fire Protection Association

1. NFPA 70 – National Electric Code
2. NFPA 80 – 2016 Edition – Standard for Fire Doors and Other Opening Protectives
3. NFPA 101 – Life Safety Code
4. NFPA 105 – Smoke and Draft Control Door Assemblies
5. NFPA 252 – Fire Tests of Door Assemblies

D. ANSI - American National Standards Institute

1. ANSI A117.1 – 2017 Edition – Accessible and Usable Buildings and Facilities
2. ANSI/BHMA A156.1 - A156.29, and ANSI/BHMA A156.31 - Standards for Hardware and Specialties
3. ANSI/BHMA A156.28 - Recommended Practices for Keying Systems
4. ANSI/WDMA I.S. 1A - Interior Architectural Wood Flush Doors
5. ANSI/SDI A250.8 - Standard Steel Doors and Frames

1.03 SUBMITTALS

A. General:

1. Submit in accordance with Conditions of Contract and Division 01 Submittal Procedures.
2. Prior to forwarding submittal:
   a. Review drawings and Sections from related trades to verify compatibility with specified hardware.
   b. Highlight, encircle, or otherwise specifically identify on submittals: deviations from Contract Documents, issues of incompatibility or other issues which may detrimentally affect the Work.

B. Action Submittals:

1. Product Data: Submit 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 of requested door hardware unit in finish indicated and tagged with full description for coordination with schedule.
   a. Samples will be returned to supplier. 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:
   a. Submit 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 critical in Project construction schedule.

b. Submit under direct supervision of a Door Hardware Institute (DHI) certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) with hardware sets in vertical format as illustrated by Sequence of Format for the Hardware Schedule published by DHI.
c. Indicate complete designations of each item required for each opening, include:
    1) Door Index: door number, heading number, and Architect's hardware set number.
    2) Quantity, type, style, function, size, and finish of each hardware item.
    3) Name and manufacturer of each item.
    4) Fastenings and other pertinent information.
    5) Location of each hardware set cross-referenced to indications on Drawings.
    6) Explanation of all abbreviations, symbols, and codes contained in schedule.
    7) Mounting locations for hardware.
    8) Door and frame sizes and materials.
    9) Degree of door swing and handing.
    10) Operational Description of openings with electrified hardware covering egress, ingress (access), and fire/smoke alarm connections.

5. Key Schedule:
    a. After Keying Conference, provide keying schedule that includes levels of keying, explanations 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. 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.

C. Informational Submittals:

1. Provide Qualification Data for Supplier, Installer and Architectural Hardware Consultant.
2. Provide Product Data:
    a. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.
    b. Include warranties for specified door hardware.

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. Final approved hardware schedule edited to reflect conditions as installed.
    d. Final keying schedule
    e. Copy of warranties including appropriate reference numbers for manufacturers to identify project.
    f. As-installed wiring diagrams for each opening connected to power, both low voltage and 110 volts.

E. Inspection and Testing:

1. Submit written reports to the Owner and Authority Having Jurisdiction (AHJ) of the results of functional testing and inspection for:
   a. Fire door assemblies, in compliance with NFPA 80.
   b. Required egress door assemblies, in compliance with NFPA 101.

1.04 QUALITY ASSURANCE

A. Qualifications and Responsibilities:

1. Supplier: Recognized architectural hardware supplier with a minimum of 5 years documented experience supplying both mechanical and electromechanical door hardware similar in quantity, type, and quality to that indicated for this Project. Supplier to be recognized as a factory direct distributor by the manufacturer of the primary materials with a warehousing facility in the Project's vicinity. Supplier to have on staff, a certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) available to Owner, Architect, and Contractor, at reasonable times during the Work for consultation.
2. Installer: Qualified tradesperson skilled in the application of commercial grade hardware with experience installing door hardware similar in quantity, type, and quality as indicated for this Project.
3. Architectural Hardware Consultant: 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:
   a. For door hardware: DHI certified AHC or DHC.
   b. Can provide installation and technical data to Architect and other related subcontractors.
   c. Can inspect and verify components are in working order upon completion of installation.
   d. Capable of producing wiring diagram and coordinating installation of electrified hardware with Architect and electrical engineers.

4. Single Source Responsibility: Obtain each type of door hardware from single manufacturer.

B. Certifications:

1. Fire-Rated Door Openings:
   a. Provide door hardware for fire-rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction.
   b. Provide only items of door hardware that are listed products tested by UL LLC, 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.

2. Smoke and Draft Control Door Assemblies:
   a. Provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105
   b. Comply with the 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.

3. Electrified Door Hardware

a. Listed and labeled as defined in NFPA 70, Article 100, by testing agency acceptable to authorities having jurisdiction.

4. Accessibility Requirements:
   a. Comply with governing accessibility regulations cited in "REFERENCES" article 087100, 1.02.D3 herein for door hardware on doors in an accessible route. This project must comply with all Federal Americans with Disability Act regulations and all Local Accessibility Regulations.

C. Pre-Installation Meetings

1. Keying Conference
   a. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including:
      1) Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
      2) Preliminary key system schematic diagram.
      3) Requirements for key control system.
      4) Requirements for access control.
      5) Address for delivery of keys.

2. Pre-installation Conference
   a. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
   b. Inspect and discuss preparatory work performed by other trades.
   c. Inspect and discuss electrical roughing-in for electrified door hardware.
   d. Review sequence of operation for each type of electrified door hardware.
   e. Review required testing, inspecting, and certifying procedures.
   f. Review questions or concerns related to proper installation and adjustment of door hardware.

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

1.05 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site. Promptly replace products damaged during shipping.

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. Deliver each article of hardware in manufacturer's original packaging.

C. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.

D. Provide secure lock-up for door hardware delivered to Project. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.

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

F. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.

1.06 COORDINATION

A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete.

B. Installation Templates: Distribute for doors, frames, and other work specified to be factory or shop 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, keying, and access control 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.

1.07 WARRANTY

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

1. Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.
2. Warranty Period: Beginning from date of Substantial Completion, for durations indicated in manufacturer's published listings.
    a. Mechanical Warranty
        1) Locks
            a) Schlage L Series: 3 years
        2) Exit Devices
            a) Von Duprin: 3 years
        3) Closers
            a) LCN 4000 Series: 30 years
    b. Electrical Warranty
        1) Locks
            a) Schlage: 1 year
        2) Exit Devices
            a) Von Duprin: 1 year

1.08 MAINTENANCE

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

B. Turn over unused materials to Owner for maintenance purposes.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. The Owner requires use of certain products for their unique characteristics and project suitability to ensure continuity of existing and future performance and maintenance standards. After investigating available product offerings, the Awarding Authority has elected to prepare proprietary specifications. These products are specified with the notation: ''No Substitute.''

    1. Where ''No Substitute'' is noted, submittals and substitution requests for other products will not be considered.

B. 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.

C. 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.

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. Fabrication

    1. Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. provide screws according to manufacturer’s recognized installation standards for application intended.
    2. Finish exposed 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 wherever possible for hardware units exposed when door is closed. Coordinate with “Metal Doors and Frames”, “Flush Wood Doors”, “Stile and Rail Wood Doors” to ensure proper reinforcements. Advise the Architect where visible fasteners, such as thru bolts, are required.

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.

C. Cable and Connectors:

    1. Where scheduled in the hardware sets, provide each item of electrified hardware and wire harnesses with number and gage of wires enough to accommodate electric function of specified hardware.
    2. Provide Molex connectors that plug directly into connectors from harnesses, electric locking and power transfer devices.
    3. Provide through-door wire harness for each electrified locking device installed in a door and wire harness for each electrified hinge, electrified continuous hinge, electrified pivot, and electric power transfer for connection to power supplies.

2.03 HINGES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. Ives 5BB series

2. Acceptable Manufacturers and Products:
   a. Hager BB1191/1279 series
   b. McKinney TB series

B. Requirements:

1. Provide hinges conforming to ANSI/BHMA A156.1.
2. Provide five knuckle, ball bearing hinges.
3. 1-3/4 inch (44 mm) thick doors, up to and including 36 inches (914 mm) wide:
   a. Exterior: Standard weight, bronze or stainless steel, 4-1/2 inches (114 mm) high
   b. Interior: Standard weight, steel, 4-1/2 inches (114 mm) high

4. 1-3/4 inch (44 mm) thick doors over 36 inches (914 mm) wide:
   a. Exterior: Heavy weight, bronze/stainless steel, 5 inches (127 mm) high
   b. Interior: Heavy weight, steel, 5 inches (127 mm) high

5. 2 inches or thicker doors:
   a. Exterior: Heavy weight, bronze or stainless steel, 5 inches (127 mm) high
   b. Interior: Heavy weight, steel, 5 inches (127 mm) high

6. Adjust hinge width for door, frame, and wall conditions to allow proper degree of opening.
7. Provide three hinges per door leaf for doors 90 inches (2286 mm) or less in height, and one additional hinge for each 30 inches (762 mm) of additional door height.
8. 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

2.04 CONTINUOUS HINGES

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives

2. Acceptable Manufacturers:
   a. Hager-Roton
   b. McKinney

B. Requirements:

1. Provide aluminum geared continuous hinges conforming to ANSI/BHMA A156.26, Grade 1.
2. Provide aluminum geared continuous hinges, where specified in the hardware sets, fabricated from 6063-T6 aluminum.
3. Provide split nylon bearings at each hinge knuckle for quiet, smooth, self-lubricating operation.
4. Provide hinges capable of supporting door weights up to 450 pounds, and successfully tested for 1,500,000 cycles.

5. On fire-rated doors, provide aluminum geared continuous hinges classified for use on rated doors by testing agency acceptable to authority having jurisdiction.
6. Provide aluminum geared continuous hinges with electrified option scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware.
7. Provide hinges 1 inch (25 mm) shorter in length than nominal height of door, unless otherwise noted or door details require shorter length and with symmetrical hole pattern.

2.05 ELECTRIC POWER TRANSFER

A. Manufacturers:

1. Scheduled Manufacturer and Product:
   a. Von Duprin EPT-10

2. Acceptable Manufacturers and Products:
   a. No Substitute

B. Requirements:

1. Provide power transfer with electrified options as scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware.
2. 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:
   a. Ives

2. Acceptable Manufacturers:
   a. Burns
   b. Rockwood
   c. 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 (305 mm) steel or brass rods at doors up to 90 inches (2286 mm) in height. For doors over 90 inches (2286 mm) in height increase top rods by 6 inches (152 mm) for each additional 6 inches (152 mm) of door height. Provide dust-proof strikes at each bottom flush bolt.

2.07 MORTISE LOCKS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. Schlage L9000 series

2. Acceptable Manufacturers and Products:
    a. No Substitute

B. Requirements:

1. Provide mortise locks conforming to ANSI/BHMA A156.13 Series 1000, Grade 1, and UL Listed for 3-hour fire doors.
2. Indicators: Where specified, provide indicator window measuring a minimum 2-inch x 1/2 inch with 180-degree visibility. Provide messages color-coded with full text and/or symbols, as scheduled, for easy visibility.
3. Provide locks manufactured from heavy gauge steel, containing components of steel with a zinc dichromate plating for corrosion resistance.
4. Provide lock case that is multi-function and field reversible for handing without opening case. Cylinders: Refer to "KEYING" article, herein.
5. 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.
6. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim. Provide electrified options as scheduled in the hardware sets. Where scheduled, provide switches and sensors integrated into the locks and latches.
7. Provide motor based electrified locksets that comply with the following requirements:
    a. Universal input voltage – single chassis accepts 12 or 24VDC to allow for changes in the field without changing lock chassis.
    b. Fail Safe/Fail Secure – changing mode between electrically locked (fail safe) and electrically unlocked (fail secure) is field selectable without opening the lock case.
    c. Low maximum current draw – maximum 0.4 amps to allow for multiple locks on a single power supply.
    d. Low holding current – maximum 0.01 amps to produce minimal heat, eliminate “hot levers” in electrically locked applications, and to provide reliable operation in wood doors that provide minimal ventilation and air flow.
    e. Connections – provide quick-connect Molex system standard.

8. 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.

2.08 EXIT DEVICES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
    a. Von Duprin 99/33A series

2. Acceptable Manufacturers and Products:
    a. No Substitute

B. Requirements:

1. Provide exit devices tested to ANSI/BHMA A156.3 Grade 1 and UL listed for Panic Exit or Fire Exit Hardware.
2. Cylinders: Refer to "KEYING" article, herein.
3. Provide grooved touchpad type exit devices, fabricated of brass, bronze, stainless steel, or aluminum, plated to standard architectural finishes to match balance of door hardware.
4. Touchpad must extend a minimum of one half of door width. No plastic inserts are allowed in touchpads.

5. Provide exit devices with deadlatching feature for security and for future addition of alarm kits and/or other electrified requirements.
6. Provide exit devices with weather resistant components that can withstand harsh conditions of various climates and corrosive cleaners used in outdoor pool environments.
7. Provide flush end caps for exit devices.
8. Provide exit devices with manufacturer's approved strikes.
9. Provide exit devices cut to door width and height. Install exit devices at height recommended by exit device manufacturer, allowable by governing building codes, and approved by Architect.
10. 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.
11. Provide cylinder or hex-key dogging as specified at non fire-rated openings.
12. Removable Mullions: 2 inches (51 mm) x 3 inches (76 mm) steel tube. Where scheduled as keyed removable mullion, provide type that can be removed by use of a keyed cylinder, which is self-locking when re-installed.
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.
15. Top latch mounting: double- or single-tab mount for steel doors, face mount for aluminum doors eliminating requirement of tabs, and double tab mount for wood doors.
16. Provide exit devices with optional trim designs to match other lever and pull designs used on the project.
    a. Provide levers that return to within 1/2 inch (13 mm) of door face.

17. Provide exit devices with PA filler.
18. Accessibility: Require not more than 5 lb. to retract the latchbolt, per CBC 2019 11B-404.2.7 and 11B-309.4.
    a. Mechanical method: Von Duprin AX feature, where touchpad directly retracts the latchbolt with 5 lb. or less of force. Provide testing lab certification confirming that the mechanical device is independent third-party tested to meet this 5 lb. requirement.
    b. Electrical method: Von Duprin’s RX-QEL feature, where lightly pressing the touchpad with 5 lb. or less of force closes an electric switch, activating quiet electric latch retraction.

19. Special Options:
    a. CVC
        1) Provide cable-actuated concealed vertical latch system in two-point for non-rated or fire rated wood doors up to a 90 minute rating and less bottom latch (LBL) configuration for non-rated or fire rated wood doors up to 20 minute rating. Vertical rods not permitted.
            a) Cable: Stainless steel with abrasive resistant coating. Conduit and core wire ends snap into latch and center slides without use of tools.
            b) Wood Door Prep: Maximum 1 inch x 1.1875 inch x 3.875 inches top latch pocket and 1 inch x 1.1875 inch x 5 inches bottom latch pocket which does not require the use of a metal wrap or edge for non-rated or fire rated wood doors up to a 45 minute rating.
            c) Latchbolts and Blocking Cams: Manufactured from sintered metal low carbon copper- infiltrated steel, with molybdenum disulfide low friction coating.
            d) Top Latchbolt: Minimum 0.38 inch (10 mm) and greater than 90-degree engagement with strike to prevent door and frame separation under high static load.
            e) Bottom Latchbolt: Minimum of 0.44-inch (11 mm) engagement with strike.
            f) Product Cycle Life: 1,000,000 cycles.
            g) Latch Operation: Top and bottom latch operate independently of each other. Top latch fully engages top strike even when bottom latch is compromised. Separate trigger mechanisms not permitted.

h) Latch release does not require separate trigger mechanism.
i) Cable and latching system characteristics:
    i. Installed independently of exit device installation, and capable of functioning on door prior to device and trim installation.
    ii. Connected to exit device at single point in steel and aluminum doors, and two points for top and bottom latches in wood doors.
    iii. Bottom latch height adjusted, from single point for steel and aluminum doors and two points for wood doors, after system is installed and connected to exit device, while door is hanging
    iv. Bottom latch position altered up and down minimum of 2 inches (51 mm) in steel and aluminum doors without additional adjustment. Bottom latch deadlocks in every adjustment position in wood doors.
    v. Top and bottom latches in steel and aluminum doors and top latch in wood doors may be removed while door is hanging.

2.09 PUSHBUTTONS

A. Manufacturers:

1. Scheduled Manufacturer:
    a. Architectural Control Systems

2. Acceptable Manufacturers:
    a. Alarm Controls
    b. Camden Door Controls
    c. Locknetics
    d. Securitron

B. Requirements:

1. Provide push buttons as specified in hardware groups.

2.10 POWER SUPPLIES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
    a. Schlage/Von Duprin PS900 Series

2. Acceptable Manufacturers and Products:
    a. No Substitute

B. Requirements:

1. Provide power supplies approved by manufacturer of supplied electrified hardware.
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. Provide power supplies with the following features:
    a. 12/24 VDC Output, field selectable.
    b. Class 2 Rated power limited output.

c. Universal 120-240 VAC input.
d. Low voltage DC, regulated and filtered.
e. Polarized connector for distribution boards.
f. Fused primary input.
g. AC input and DC output monitoring circuit w/LED indicators.
h. Cover mounted AC Input indication.
i. Tested and certified to meet UL294.
j. NEMA 1 enclosure.
k. Hinged cover w/lock down screws.
l. High voltage protective cover.

2.11 CYLINDERS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. Schlage Everest 29 T

2. Acceptable Manufacturers and Products:
   a. No Substitute

B. Requirements:

1. Provide cylinders/cores compliant with ANSI/BHMA A156.5; latest revision; 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. Conventional Patented Restricted: cylinder with interchangeable core with patented, restricted keyway.

3. Patent Protection: Cylinders/cores requiring use of restricted, patented keys, patent protected.
4. Nickel silver bottom pins.

2.12 KEYING

A. Scheduled System:

1. Existing factory registered system:
   a. Provide cylinders/cores keyed into Owner's existing factory registered keying system. Comply with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference. Contact:
      1) Firm Name: Allegion
      2) Contact Person: Donald Gilbert
      3) E-Mail: donald.gilberth@allegion.com
      4) Telephone: (843) 209-9915

B. Requirements:

1. Construction Keying:
   a. Replaceable Construction Cores.
      1) Provide temporary construction cores replaceable by permanent cores, furnished in accordance with the following requirements.

a) 3 construction control keys
b) 12 construction change (day) keys.

2) Owner or Owner's Representative will replace temporary construction cores with permanent cores.

2. Permanent Keying:
   a. Provide permanent cylinders/cores keyed by the manufacturer according to the following key system.
      1) Master Keying system as directed by the Owner.
   b. Forward bitting list and keys separately from cylinders, by means as directed by Owner. Failure to comply with forwarding requirements will be cause for replacement of cylinders/cores involved at no additional cost to Owner.
   c. Provide keys with the following features:
      1) Material: Nickel silver; minimum thickness of .107-inch (2.3mm)
      2) Patent Protection: Keys and blanks protected by one or more utility patent(s).
      3) Geographically Exclusive: Where High Security or Security cylinders/cores are indicated, provide nationwide, geographically exclusive key system complying with the following restrictions.
   d. Identification:
      1) Mark permanent cylinders/cores and keys with applicable blind code for identification. Do not provide blind code marks with actual key cuts.
      2) Identification stamping provisions must be approved by the Architect and Owner.
      3) Stamp cylinders/cores and keys with Owner's unique key system facility code as established by the manufacturer; key symbol and embossed or stamped with "DO NOT DUPLICATE" along with the "PATENTED" or patent number to enforce the patent protection.
      4) Failure to comply with stamping requirements will be cause for replacement of keys involved at no additional cost to Owner.
      5) Forward permanent cylinders/cores to Owner, separately from keys, by means as directed by Owner.
   e. Quantity: Furnish in the following quantities.
      1) Change (Day) Keys: 3 per cylinder/core.
      2) Permanent Control Keys: 3.
      3) Master Keys: 6.

2.13 DOOR CLOSERS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. LCN 4040XP series

2. Acceptable Manufacturers and Products:
   a. 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 piston with 5/8-inch (16 mm) diameter double heat-treated pinion journal. QR code with a direct link to maintenance instructions.

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. Provide snap-on cover clip, with plastic covers, that secures cover to spring tube.
6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck. Provide graphically labelled instructions on the closer body adjacent to each adjustment valve. Provide positive stop on reg valve that prevents reg screw from being backed out.
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.

2.14 DOOR TRIM

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives

2. Acceptable Manufacturers:
   a. Burns
   b. Rockwood
   c. Trimco

B. Requirements:

1. Provide push plates, push bars, pull plates, pulls, and hands-free reversible door pulls with diameter and length as scheduled.

2.15 PROTECTION PLATES

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives

2. Acceptable Manufacturers:
   a. Burns
   b. Rockwood
   c. Trimco

B. Requirements:

1. Provide protection plates with a minimum of 0.050 inch (1 mm) thick, beveled four edges as scheduled. Furnish with sheet metal or wood screws, finished to match plates.

2. Sizes plates 2 inches (51 mm) less width of door on single doors, pairs of doors with a mullion, and doors with edge guards. Size plates 1 inch (25 mm) less width of door on pairs without a mullion or edge guards.
3. At fire rated doors, provide protection plates over 16 inches high with UL label.

2.16 OVERHEAD STOPS AND OVERHEAD STOP/HOLDERS

A. Manufacturers:

1. Scheduled Manufacturers:
   a. Glynn-Johnson

2. Acceptable Manufacturers:
   a. No Substitute

B. Requirements:

1. Provide overhead stop at any door where conditions do not allow for a wall stop or floor stop presents tripping hazard.
2. Provide friction type at doors without closer and positive type at doors with closer.

2.17 DOOR STOPS AND HOLDERS

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives

2. Acceptable Manufacturers:
   a. Burns
   b. Rockwood
   c. Trimco

B. Provide door stops at each door leaf:

1. Provide wall stops wherever possible. Provide concave type where lockset has a push button of thumbturn.
2. Where wall stop cannot be used, provide overhead stop.
3. Provide roller bumper where doors open into each other and overhead stop cannot be used.

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

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Zero International

2. Acceptable Manufacturers:
   a. No Substitute

B. Requirements:

1. Provide thresholds, weather-stripping, and gasketing systems as specified and per architectural details. Match finish of other items.
2. 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.
3. Provide door sweeps, seals, astragals, and auto door bottoms only of type where resilient or flexible seal strip is easily replaceable and readily available.
4. Size thresholds 1/2 inch (13 mm) high by 5 inches (127 mm) wide by door width unless otherwise specified in the hardware sets or detailed in the drawings.

2.19 DOOR POSITION SWITCHES

A. Manufacturers:

1. Scheduled Manufacturer:
   a. GE-Interlogix

2. Acceptable Manufacturers:
   a. Sargent

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 (102 mm) between switch and magnetic locking device.

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. Verify doors, frames, and walls have been properly reinforced for hardware installation.

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

C. Submit a list of deficiencies in writing and proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

A. 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. Interior Architectural Wood Flush Doors: ANSI/WDMA I.S. 1A
4. Installation Guide for Doors and Hardware: DHI TDH-007-20

B. Install door hardware in accordance with NFPA 80, NFPA 101 and provide post-install inspection, testing as specified in section 1.03.E unless otherwise required to comply with governing regulations.

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

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

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

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

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

H. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated.

I. Lock Cylinders:

1. Install construction cores to secure building and areas during construction period.
2. Replace construction cores with permanent cores as indicated in keying section.
3. Furnish permanent cores to Owner for installation.

J. Wiring: Coordinate with Division 26, ELECTRICAL and Division 28 ELECTRONIC SAFETY AND SECURITY 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. Connections to panel interface modules, controllers, and gateways.
6. Testing and labeling wires with Architect's opening number.

K. Door Closers: Mount closers on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Mount closers so they are not visible in corridors, lobbies and other public spaces unless 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.

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 and Sweeps: Apply to bottom of door, forming seal with threshold when door is closed.

3.03 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 three to six months after date of Substantial Completion, examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors and door hardware.

3.04 CLEANING AND PROTECTION

A. Clean adjacent surfaces soiled by door hardware installation.

B. Clean operating items per manufacturer's instructions 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.

3.05 DOOR HARDWARE SCHEDULE

A. The intent of the hardware specification is to specify the hardware for interior and exterior doors, and to establish a type, continuity, and standard of quality. However, it is the door hardware supplier's responsibility to thoroughly review existing conditions, schedules, specifications, drawings, and other Contract Documents to verify the suitability of the hardware specified.

B. Discrepancies, conflicting hardware, and missing items are to be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application.

C. Hardware items are referenced in the following hardware schedule. Refer to the above specifications for special features, options, cylinders/keying, and other requirements.

D. Hardware Sets:

Abbreviation	Name
ACS	Architectural Control Systems, Inc.
GLY	Glynn-Johnson Corp
IVE	H.B. Ives
LCN	LCN Commercial Division
NGP	National Guard Products Inc
SCE	Schlage Electronic Security
SCH	Schlage Lock Company
SEN	Sentrol
VON	Von Duprin
ZER	Zero International Inc

76033 OPT0278713 Version 3

Hardware Set No. 01
For use on mark/door #(s):

106	107B	117	118	119	124
125	132	133	142	172	176
180	181	182			

Each to have:

3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	CLASSROOM SECURITY	L9071J 17A L283-711	626	SCH
2	EA	FSIC CORE	23-030 EV29 T	626	SCH
1	EA	SURFACE CLOSER	4040XP REG ARM MOUNT	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	WS401/402CVX	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

Hardware Set No. 02
For use on mark/door #(s):
108
Each to have:

3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	CLASSROOM SECURITY	L9071J 17A L283-711	626	SCH
2	EA	FSIC CORE	23-030 EV29 T	626	SCH
1	EA	OH STOP	100S	630	GLY
1	EA	SURFACE CLOSER	4040XP ST-1630	689	LCN
1	EA	MOUNTING PLATE	4040XP-18TJ SRT	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	GASKETING	488SBK PSA	BK	ZER

Hardware Set No. 03
For use on mark/door #(s):
112T 119T 121T 123T 172T
Each to have:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PRIVACY LOCK	L9456J 17A 09-544 L283-722	626	SCH
1	EA	FSIC CORE	23-030 EV29 T	626	SCH
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	WS401/402CVX	626	IVE

Hardware Set No. 04
For use on mark/door #(s):
130 131 134 135 136 137
138 139 161
Each to have:

3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	CLASSROOM SECURITY	L9071J 17A L283-711	626	SCH
2	EA	FSIC CORE	23-030 EV29 T	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	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	WALL STOP	WS401/402CVX	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

AT EXISTING FRAMES FIELD VERIFY AND MATCH EXISTING HINGE AND STRIKE SIZE.

Hardware Set No. 05
For use on mark/door #(s):
138A
Each to have:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L9080J 17A	626	SCH
1	EA	FSIC CORE	23-030 EV29 T	626	SCH
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	WS401/402CVX	626	IVE

Hardware Set No. 06
For use on mark/door #(s):
152
Each to have:

3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	CLASSROOM SECURITY	L9071J 17A L283-711	626	SCH
2	EA	FSIC CORE	23-030 EV29 T	626	SCH
1	EA	SURFACE CLOSER	4040XP REG ARM MOUNT	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	WS401/402CVX	626	IVE
1	EA	GASKETING	119WB PSA	B	ZER
1	SET	GASKETING	870AA-S	AA	ZER
1	EA	DOOR BOTTOM	367AA	AA	ZER
1	EA	THRESHOLD	564A-223	A	ZER

ZERO SOUND TRAP-49 STC SEALING SYSTEM
DOORS REQUIRE SPECIAL 3/8 INCH UNDERCUT FOR ADA TYPE THRESHOLD.

Hardware Set No. 07
For use on mark/door #(s):
173
Each to have:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	DBL CYL STORE W/DB	L9466J 17A	626	SCH
2	EA	FSIC CORE	23-030 EV29 T	626	SCH
1	EA	OH STOP & HOLDER	100F	630	GLY
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

Hardware Set No. 08
For use on mark/door #(s):
174
Each to have:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L9080J 17A	626	SCH
1	EA	FSIC CORE	23-030 EV29 T	626	SCH
1	EA	OH STOP & HOLDER	100F	630	GLY
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

Hardware Set No. 09
For use on mark/door #(s):
177 178
Each to have:

3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	OFFICE LOCK	L9050J 17A 09-544 L283-714	626	SCH
1	EA	FSIC CORE	23-030 EV29 T	626	SCH
1	EA	SURFACE CLOSER	4040XP REG ARM MOUNT	689	LCN
1	EA	MOP PLATE	8400 4" 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	WS401/402CVX	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

Hardware Set No. 10
For use on mark/door #(s):
187
Each to have:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L9080J 17A	626	SCH
1	EA	FSIC CORE	23-030 EV29 T	626	SCH
1	EA	ARMOR PLATE	8400 34" 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	WS401/402CVX	626	IVE

Hardware Set No. 11
For use on mark/door #(s):
188A 188C
Each to have:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L9080J 17A	626	SCH
1	EA	FSIC CORE	23-030 EV29 T	626	SCH
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/HOLDER	WS40	626	IVE

Hardware Set No. 12
For use on mark/door #(s):
191
Each to have:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L9080J 17A	626	SCH
1	EA	FSIC CORE	23-030 EV29 T	626	SCH
1	EA	OH STOP & HOLDER	100F	630	GLY
1	EA	ARMOR PLATE	8400 34" X 1 1/2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE

Hardware Set No. 13
For use on mark/door #(s):
143A 143B
Each to have:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	OFFICE LOCK	L9050J 17A 09-544 L283-714	626	SCH
1	EA	FSIC CORE	23-030 EV29 T	626	SCH
1	EA	MOP PLATE	8400 4" 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	WS401/402CVX	626	IVE

Hardware Set No. AC-01
For use on mark/door #(s):
100A 100B 100C 200A 201C
Each to have:

2	EA	CONT. HINGE	112XY EPT	628	IVE
2	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	ELEC PANIC HDWE	RX-QEL-9949-EO-CON 24 VDC	626	VON
1	EA	ELEC PANIC HDWE	RX-QEL-9949-NL-OP-110MD-LBL-CON 24 VDC	626	VON
1	EA	RIM HOUSING	20-079	626	SCH
1	EA	FSIC CORE	23-030 EV29 T	626	SCH
2	EA	DOOR PULL	9264F 72" O MB	630-316	IVE
2	EA	OH STOP	100S	630	GLY
2	EA	SURFACE CLOSER	4040XP TOP JAMB MOUNT	689	LCN
2	EA	MOUNTING PLATE	4040XP-18G SRT	689	LCN
2	EA	WIRE HARNESS	CON-26P		SCH
2	EA	WIRE HARNESS	CON-6W		SCH
2	EA	DOOR CONTACT	2757D	628	SEN
1	EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC	LGR	SCE
		CREDENTIAL READER	PROVIDED BY DIV.28		

PROVIDE HARDWARE FOR ALUMINUM DOORS UNDER THIS SECTION. DELIVER HARDWARE TEMPLATES AND HARDWARE, EXCEPT FIELD APPLIED HARDWARE, TO THE ALUMINUM DOOR AND FRAME MANUFACTURER FOR USE IN FABRICATING DOORS AND FRAMES.
DESCRIPTION OF OPERATION;
PRESENTING VALID CREDENTIAL TO READER AND/OR ACCESS CONTROL SYSTEM WILL RETRACT LATCHES FOR ACCESS.
REQUEST TO EXIT AND DOOR POSITION SWITCHES ARE FOR USE BY ACCESS CONTROL CONTRACTOR.
FREE EGRESS AT ALL TIMES.

Hardware Set No. AC-02
For use on mark/door #(s):
141
Each to have:

3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	EU MORTISE LOCK	L9092JEU 17A RX CON 12/24 VDC	626	SCH
1	EA	FSIC CORE	23-030 EV29 T	626	SCH
1	EA	SURFACE CLOSER	4040XP REG ARM MOUNT	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	WS401/402CVX	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	WIRE HARNESS	CON-32P		SCH
1	EA	WIRE HARNESS	CON-6W		SCH
1	EA	DOOR CONTACT	2757D	628	SEN
1	EA	POWER SUPPLY	PS902 120/240 VAC	LGR	SCE
		CREDENTIAL READER	PROVIDED BY DIV.28		

DESCRIPTION OF OPERATION;
PRESENTING VALID CREDENTIAL TO READER WILL RELEASE LEVER TRIM FOR ACCESS.
REQUEST TO EXIT AND DOOR POSITION SWITCHES ARE FOR USE BY ACCESS CONTROL CONTRACTOR.
EMERGENCY ACCESS BY MECHANICAL KEY OVERRIDE.
FREE EGRESS AT ALL TIMES.

Hardware Set No. AC-03
For use on mark/door #(s):
160
Each to have:

1	EA	CONT. HINGE	112XY EPT	628	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	EU MORTISE LOCK	L9092JEU 17A RX CON 12/24 VDC	626	SCH
1	EA	FSIC CORE	23-030 EV29 T	626	SCH
1	EA	SURFACE CLOSER	4040XP REG ARM MOUNT	689	LCN
1	EA	WALL STOP	WS401/402CVX	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	WIRE HARNESS	CON-AS REQ'D P		SCH
1	EA	WIRE HARNESS	CON-6W		SCH
1	EA	DOOR CONTACT	2757D	628	SEN
1	EA	POWER SUPPLY	PS902 120/240 VAC	LGR	SCE
		CREDENTIAL READER	PROVIDED BY DIV.28		
		DESK PUSH BUTTON	PROVIDED BY DIV.28		

FIELD PREP EXISTING FRAME TO ACCEPT NEW DOOR HARWDARE.
DESCRIPTION OF OPERATION;
PRESENTING VALID CREDENTIAL TO READER AND/OR PRESSING DESK RELEASE BUTTON AND/OR ACCESS CONTROL SYSTEM WILL RELEASE LEVER TRIM FOR ACCESS.
REQUEST TO EXIT AND DOOR POSITION SWITCHES ARE FOR USE BY ACCESS CONTROL CONTRACTOR.
EMERGENCY ACCESS BY MECHANICAL KEY OVERRIDE.
FREE EGRESS AT ALL TIMES.

Hardware Set No. CO
For use on mark/door #(s):
171T 175T
Each to have:

1	CASED OPEN FRM	NO HDWE REQ'D

Hardware Set No. E-01A - JACK AND JILL TOILET ROOMS
For use on mark/door #(s):
101
Each to have:

3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	EL MORTISE LOCK	L9092JEL 17A RX CON 12/24 VDC	626	SCH
1	EA	FSIC CORE	23-030 EV29 T	626	SCH
1	EA	SURFACE CLOSER	4040XP CUSH	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	WIRE HARNESS	CON-38P		SCH
1	EA	WIRE HARNESS	CON-6W		SCH
1	EA	PUSH TO LOCK W/IND	1320-6100	630	ACS
1	EA	POWER SUPPLY	PS902 900-2RS FA900 120/240 VAC	LGR	SCE

ONLY ONE POWER SUPPLY REQUIRED PER RESTROOM
DESCRIPTION OF OPERATION;
COMMUNICATING BATHROOM DOOR SYSTEM COMMON RESTROOM SHARED BY TWO DOORS
DOORS NORMALLY UNLOCKED.
UPON ENTERING RESTROOM ONE OF THE MOMENTARY 1320-6100 PUSHBUTTONS WILL BE PRESSED TO LOCK BOTH DOORS.
LEAVING THE RESTROOM - WHEN EITHER LEVER IS USED TO EXIT, RX SWITCH IN LOCKSET WILL ELECTRICALLY UNLOCK BOTH DOORS.
FIRE ALARM ACTIVATION TO CAUSE LOCKS TO UNLOCK.
FREE EGRESS AT ALL TIMES.

Hardware Set No. E-01B - JACK AND JILL TOILET ROOMS
For use on mark/door #(s):
126
Each to have:

3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	EL MORTISE LOCK	L9092JEL 17A RX CON 12/24 VDC	626	SCH
1	EA	FSIC CORE	23-030 EV29 T	626	SCH
1	EA	SURFACE CLOSER	4040XP CUSH	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	WIRE HARNESS	CON-38P		SCH
1	EA	WIRE HARNESS	CON-6W		SCH
1	EA	PUSH TO LOCK W/IND	1320-6100	630	ACS

ONLY ONE POWER SUPPLY REQUIRED PER RESTROOM
DESCRIPTION OF OPERATION;
COMMUNICATING BATHROOM DOOR SYSTEM COMMON RESTROOM SHARED BY TWO DOORS
DOORS NORMALLY UNLOCKED.
UPON ENTERING RESTROOM ONE OF THE MOMENTARY 1320-6100 PUSHBUTTONS WILL BE PRESSED TO LOCK BOTH DOORS.
LEAVING THE RESTROOM - WHEN EITHER LEVER IS USED TO EXIT, RX SWITCH IN LOCKSET WILL ELECTRICALLY UNLOCK BOTH DOORS.
FIRE ALARM ACTIVATION TO CAUSE LOCKS TO UNLOCK.
FREE EGRESS AT ALL TIMES.

Hardware Set No. E-02A - JACK AND JILL TOILET ROOMS

For use on mark/door #(s):

102T 108T 109T

Each to have:

3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	EL MORTISE LOCK	L9092JEL 17A RX CON 12/24 VDC	626	SCH
1	EA	FSIC CORE	23-030 EV29 T	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	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	WALL STOP	WS401/402CVX	626	IVE
1	EA	WIRE HARNESS	CON-38P		SCH
1	EA	WIRE HARNESS	CON-6W		SCH
1	EA	PUSH TO LOCK W/IND	1320-6100	630	ACS
1	EA	POWER SUPPLY	PS902 900-2RS FA900 120/240 VAC	LGR	SCE

ONLY ONE POWER SUPPLY REQUIRED PER RESTROOM

DESCRIPTION OF OPERATION;

COMMUNICATING BATHROOM DOOR SYSTEM COMMON RESTROOM SHARED BY TWO DOORS DOORS NORMALLY UNLOCKED.

UPON ENTERING RESTROOM ONE OF THE MOMENTARY 1320-6100 PUSHBUTTONS WILL BE PRESSED TO LOCK BOTH DOORS.

LEAVING THE RESTROOM - WHEN EITHER LEVER IS USED TO EXIT, RX SWITCH IN LOCKSET WILL ELECTRICALLY UNLOCK BOTH DOORS.

FIRE ALARM ACTIVATION TO CAUSE LOCKS TO UNLOCK.

FREE EGRESS AT ALL TIMES.

Hardware Set No. E-02B - JACK AND JILL TOILET ROOMS
For use on mark/door #(s):
102TA 108TA 109TA
Each to have:

3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	EL MORTISE LOCK	L9092JEL 17A RX CON 12/24 VDC	626	SCH
1	EA	FSIC CORE	23-030 EV29 T	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	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	WALL STOP	WS401/402CVX	626	IVE
1	EA	WIRE HARNESS	CON-38P		SCH
1	EA	WIRE HARNESS	CON-6W		SCH
1	EA	PUSH TO LOCK W/IND	1320-6100	630	ACS

ONLY ONE POWER SUPPLY REQUIRED PER RESTROOM
DESCRIPTION OF OPERATION;
COMMUNICATING BATHROOM DOOR SYSTEM COMMON RESTROOM SHARED BY TWO DOORS DOORS NORMALLY UNLOCKED.
UPON ENTERING RESTROOM ONE OF THE MOMENTARY 1320-6100 PUSHBUTTONS WILL BE PRESSED TO LOCK BOTH DOORS.
LEAVING THE RESTROOM - WHEN EITHER LEVER IS USED TO EXIT, RX SWITCH IN LOCKSET WILL ELECTRICALLY UNLOCK BOTH DOORS.
FIRE ALARM ACTIVATION TO CAUSE LOCKS TO UNLOCK.
FREE EGRESS AT ALL TIMES.

Hardware Set No. MISC
For use on mark/door #(s):
MISC
Each to have:

86	EA	FSIC CONST CORE	23-030 ICX (ORG)	ORG	SCH
3	EA	CONST CONTROL KEY	48-056-ICX (ORG)	468	SCH
12	EA	CONST CUT KEY	48-101-ICX (ORG)	468	SCH

Hardware Set No. RU - ROLL UP DOORS
For use on mark/door #(s):
188B
Each to have:

2	EA	FSIC RIM/MORTISE CYLINDER	AS REQ'D	626	SCH
2	EA	FSIC CORE	23-030 EV29 T	626	SCH
1		BALANCE OF HARDWARE BY DOOR MANUFACTURER			

END OF SECTION

SECTION 27 51 00 GYMNASIUM SOUND SYSTEM - ALTERNATE

PART 1 – GENERAL

1.1 GENERAL

A. All materials, unless otherwise specified, shall be new, free from any defects, and of the best quality of their respective kinds. All like materials used shall be of the same manufacturer, model, and quality, unless otherwise specified.
B. All material, and equipment shall be procured, stored, transported, connected, used, cleaned, adjusted, and placed in service as recommended by the manufacturers, or as indicated in their published literature, unless specifically herein specified to the contrary.
C. All technicians that perform work on this project shall do so only after reading the issued specification sections and reviewing the associated project drawings.
D. All work shall be performed by competent personnel and executed in a neat and workmanlike manner providing a thorough and complete installation. Work shall be properly protected during construction, including the shielding of soft or fragile materials. At completion, the installation shall be thoroughly cleaned and all tools, equipment, obstructions, or debris present as a result of this portion of work shall be removed from the premises.
E. All equipment shall be sourced through manufacturer approved means and channels, the sourcing of like-new or otherwise questionable (ie. Gray-market) equipment for use is strictly prohibited. All equipment shall carry an intact and honorable manufacturer warranty in addition to any warranty provided or implied by the installer/integrator.
F. The Contractor shall provide as-built drawings detailing the locations of all equipment installed as part of the system described herein.
G. The Contractor must demonstrate to the Owner and Engineer that the system is complete and complies with all operational requirements set forth in the plans and specifications. The Contractor shall provide all miscellaneous items and accessories required to make the system operational whether or not such items are specifically mentioned in the plans and specifications. It is the Contractor's responsibility to review the architectural, structural, mechanical, and electrical drawings, as well as the specifications, for any details that may impact the installation or provisioning of the system. Any discrepancies discovered shall be brought to the attention of the Engineer.
H. The Gymnasium Audio System shall be warranted by the Contractor for a period of three (3) years from date of substantial completion.

1.2 QUALITY ASSURANCE

A. All equipment shall be UL listed.
B. All equipment and Installation Practices shall comply with the latest BICSI® Telecommunications Distribution Methods Manual (TDMM).
C. Installing contractor shall ensure that volume levels are appropriate and balanced within the space and that intelligibility is maintained for typical speech amplification.

1.3 SYSTEM INTENT

A. The goal of the Gymnasium sound system it to provide the owner the ability to hold large events and provide audio amplification of spoken voice or program audio.
B. In addition to large events, the goal of the system would be to provide both music and voice sound reinforcement for both day to day gymnasium operations as well as larger presentations.
C. The whole system shall be simple to operate from a single location to allow flexibility of control by either the presenter, the gym teacher, or a sound technician.
D. The system shall include a wireless means for providing audio reinforcement from a mobile device (phone, projector on a cart, or instrument) with line-level output via 3.5” audio jack.
E. There are two adjacent spaces – the gymnasium and the student dining space. A single system with the capability to be used in a single or dual-zone mode shall be provided.
    a. Users shall have the ability to select a single audio source for simultaneous use in both spaces or a different audio source for simultaneous use in each space.
F. System shall have “automix” features and a means to provide adequate microphone gain without experiencing feedback.

PART 2 – PRODUCTS

2.1 EQUIPMENT RACK

A. Provide (1) cabinet in a finish that complements other room décor.
    a. Design Basis: Lowell LWR-1619 or equivalent by Legrand or Middle Atlantic
    b. Equipment rack shall have the following specifications:
        i. Wall mounted
        ii. 19” Standard rack mounting rails with:
            1. EIA rack mount pattern
            2. Capability to accommodate 15-20RU of components
            3. Black, powder coated steel
            4. Threaded for 10-32 Screws
        iii. 16” usable depth
        iv. Passive ventilation openings
        v. Lockable door
        vi. 175lb minimum equipment capacity

2.2 INPUT LOCATIONS

A. Three inputs shall be provided on the front panel of the rack:
    a. (2) XLR inputs
    b. (1) 3.5MM audio input

2.3 MICROPHONE SYSTEMS

A. A professional quality wireless microphone system shall be provided that provides at least:
    a. Two (2) handheld wireless microphones
    b. One (1) wireless gooseneck microphone for podium usage.
    c. One (1) wireless instrument/portable projector input via 3.5” audio
B. All four (4) wireless microphones shall be able to operate independently and simultaneously.
C. Microphone receiver shall feature:
    a. Dual channel receivers within 1U rack space.
    b. XLR connectors with switchable mic/line output level
    c. Audio and RF LED meters with peak indicator
    d. Intuitive front panel LCD menu and controls with lockout feature
    e. RF cascade ports allow distribution of RF signal to another unit
    f. Remote mountable antennas
    g. Up to 64 MHz tuning range
    h. Optimized scanning to automatically find, prioritize, and deploy the cleanest frequencies to transmitters
D. Receiver antennas shall be remote mounted as required, located for optimum operation and properly protected from the hazards present within the space (balls, theft, vandalism, etc).
E. Handheld transmitter shall feature:
    a. Lithium-ion rechargeable battery pack that provides over 12 hours of battery life
    b. External charging contacts for docked charging
    c. Transmitter Mute Mode
    d. Backlit LCD with easy to navigate menu and controls
    e. Metal construction
    f. Interchangeable and replaceable microphone cartridges.
    g. Zippered bag or carrying case.
F. Gooseneck transmitter shall feature:
    a. Rechargeable batteries that provide up to 9 hours of runtime
    b. Configurable Mute button
    c. Low latency
    d. Compatible flexible microphone suitable for the space and application.
G. Instrument/projector transmitter shall feature:
    a. Rechargeable batteries that provide up to 9 hours of runtime
    b. Configurable Mute button
    c. Low latency
H. Coordinate frequencies with the School’s other wireless microphone systems and existing UHF and Digital TV signals in the geographic area, and from interference from future Digital TV channels already allocated for the area.
I. Design Basis Specification: Shure ULXD4D, ULXD2/SM58, ULXD8 (with compatible gooseneck) or equivalent from AKG or Electro Voice.

2.4 HEARING ASSISTANCE SYSTEM

A. Provide a hearing assistance system that complies with ADA requirements
B. Transmitter shall be rack mounted with a factory rack mount bracket. System shall consist of a FM transmitter and belt pack receivers, and will operate in the narrow frequency allocations provided for hearing assistance equipment.
C. Coordinate and provide separate frequencies for the each sound system in the school.
D. Provide the quantity of (6) six receivers with lightweight headphones needed to comply with this OBC requirement based upon occupancy load. Include a spare pair of ear foams for each headset. Include (2) two hearing-aid compatible receivers.
E. Provide (1) remote antenna. Contractor to custom mount to a single gang stainless steel wall plate with grommeted hole for cable pass through. Mount antenna on wall inside gymnasium at bottom of bar joist.
F. Complete systems by Williams PPA-457, Phonic Ear, Phonic Ear, or Listen Technologies LS-03 shall be considered equal.

2.5 DIGITAL SIGNAL PROCESSOR

A. It shall perform all the necessary functions between the mixer pre-amplifier and the power amplifier(s).
B. Configuration of the DSP shall be accomplished by a drag–and–drop Graphical User Interface, and processors shall be able to be placed anywhere in the signal path.
C. The matrix mixer allows any or all inputs to be routed to any or all outputs with additional controls for levels and polarity. The DSP shall store up to 128 configurations that can be recalled using simple contact closures, MIDI, or RS232 commands.
D. The primary interface for the DSP shall be a Windows–based software program that mimics the functional block diagrams used in sound system design. Processing blocks in the DSP shall be able to be applied in any order, to any input or output. Processing blocks shall be able to be copied and pasted to duplicate processors across multiple channels, and shall also be able to be linked for more efficient stereo or global control.
E. The DSP shall allow for the configuration(s) to be designed, saved to disk, and loaded at the job site for easy set up. The DSP shall also allow real–time design changes, so processing blocks can be added, removed or changed during system tuning.
F. The DSP shall support audio “ducking” such that when any local input is active and an announcement from the central paging system should occur the local input is muted.
    a. Installer should provide a local switch to enable or disable the audio-ducking feature.
G. The DSP shall have security options to allow complete lock of the system to prevent undesired tampering, or to restrict user access to certain parts of the system.
H. Minimum performance specifications shall be as follows:
    a. FREQUENCY RESPONSE - 20 Hz to 20 kHz +1, –3 dB.
    b. DYNAMIC RANGE - 100 dB minimum, A-weighted, 20 Hz to 20 kHz.
    c. SAMPLING RATE - 48 kHz. Digital Signal Processing - 32-bit floating–point Resolution.
    d. POLARITY - Input to Output: non–inverting (inverting optional).
    e. IMPEDANCE - Input: 10 k ohms, Output: 120 ohms.
    f. INPUT CLIPPING LEVEL - +26dBu minimum.
    g. OUTPUT CLIPPING LEVEL - +22 dBu minimum, +2 dBu minimum with 20 dB pad engaged.
    h. TOTAL HARMONIC DISTORTION - < 0.05% at 1kHz, +4 dBu, 20 Hz to 20 kHz.
    i. PROPAGATION DELAY FROM INPUT TO OUTPUT - <1.5 ms (Processing blocks add no latency.)
    j. ANALOG AUDIO INPUTS - 4 line level analog inputs, with Euro-block connectors, Operation level defaults to +4 dBu, software switchable to –10dBv, 24–bit, 48 kHz A to D conversion, +26 dBu input clipping level @ 1% THD.
    k. ANALOG AUDIO OUTPUTS - 8 line level analog outputs, with Euro-block connectors, Operation level defaults to +4 dBu, software switchable to –10dBv, 24–bit, 48 kHz D to A conversion, +22 dBu output clipping level @ 1% THD (+2 dBu with 20 dB pad).
    l. CONTROL PINS - Voltage Supply: 5 Vdc, 100 mA (total), Logic output current sinking ability: 500mA.
    m. OPERATING VOLTAGE - 100–240 Vac, 50/60 Hz (auto-switching).

2.6 CONTROL PANELS

A. Provide one control panel per gymnasium for selecting the operating mode of the Gymnasium sound system. Locate control panel on front or side panel of rack.
B. Control panel shall provide input switching and volume level changes as required for proper operation of each mode
C. Manufacturers 3-year parts and labor warranty
D. Manufacturer: Extron TLP Pro 1025M or equivalent by Crestron or other manufacturer as approved by technology designer.

2.7 POWER AMPLIFIERS

A. Suitable additional amplification shall be provided to provide sufficient amplification levels for the size, type, and quantity of speakers specified for the space.
B. Amplifier shall be 70V monaural and powered by 100-240 VAC, 50-60 Hz
C. Amplifier shall be integrated with control system for power and level adjustment.
D. Variations from spec shall be approved by technology designer as required.
E. Manufacturers 3-year parts and labor warranty
F. Design basis: Extron 60-850-01 or equivalent by QSC or JBL

2.8 SPEAKERS

A. Speakers shall be vertical column speakers mounted on either side of the stage in each space as shown on the drawings.
B. Speakers shall feature the following minimum specifications:
    a. Full range power limiter protecting the tweeter, woofer, and crossover
    b. 80 Hz to 17 kHz frequency response
    c. 325W RMS continuous pink noise power handling.
C. Manufacturers 3-year parts and labor warranty
D. Design Specification: JBL CBT 100LA-1 or equivalent by Electro-Voice, Danley, or other manufacturers as approved by technology designer.
E. Coordinate color with interior designers.

2.9 MEDIA PLAYER

A. 1 RU multi-format media player shall be supplied with the capability to play:
    a. CD's
    b. MP3's
        i. Bitrate: 32 to 320 kbps and VBR
        ii. Sampling Frequency: 44.1 kHz
    c. WAV Files
        i. Bitrate: 16–bit
        ii. Sampling Frequency: 44.1 kHz
    d. Bluetooth audio
    e. Media from an SD card
    f. Audio from a line-in source
B. Additional features include
    a. IR or Serial RS-232 control
    b. Super-fast loading, slot-in CD player
    c. Supports removable USB thumb and HDDs, SD/SDHC cards
    d. Wireless audio playback from tablets and smartphones via Bluetooth
    e. Selectable Power-On-Play mode automatically plays USB, SD or CD tracks when powered up — simply turn it on
    f. Up to 100 foot (30m) wireless Bluetooth range
    g. Plays CD-DA, MP3, WAV, and AAC files
    h. 3.5mm (1/8-inch) input for audio playback of any audio device with a 3.5mm output
    i. AM/FM Tuner
    j. RCA and balanced XLR audio outputs
    k. Random, repeat, and single play playback modes
    l. Remembers up to 8 Bluetooth devices for simple switching of wireless audio sources
    m. 1RU chassis with removable rack ears
    n. 100-220v switching power supply
C. Media Player control shall be integrated with control specified within this section.
D. Manufacturers: Denon DN-300Z, Marantz PMD526C, Tascam CD-400U

2.10 POWER DISTRIBUTION

A. Provide one (1) sequential power controller and four (4) 15 amp quad outlet with relay control.
B. Provide auxiliary power strips as required to provide sufficient outlets for all equipment with 2 spare outlets per circuit.
C. Separate signal processing and power amplification circuits, with one circuit for signal processing, and three circuits for power amplification.
D. Provide four un-switched outlets inside rack.

E. Design Basis Power Controller – Atlas Sound ECS-204, Lowell ACR-SCS4-1509 or Furman PS-8R Series II.

2.11 MIXER/PREAMP

A. Provide an 8 input by 1 output mixer preamplifier for the Gymnasium sound system
B. The microphone mixers shall provide 8 microphone or line level inputs, one aux input and at least one line level, balanced output.
C. All input and output connectors shall be Phoenix or XLR-type connectors. Each input shall have an input gain trim adjustment control on the rear panel and the adjustment range shall be 40 dB. Each input shall have a rear panel mic/line selector switch. Each input shall have a front panel low cut or high pass switch. All 8 inputs shall have phantom power compatibility. The rear panel shall contain a common on/off switch for the phantom power to all inputs. Each input's line input circuitry shall prevent phantom power on that input when in line level mode.
D. The output circuitry shall be of the active balanced, cross-coupled design. The output shall be capable of at least +26dBV balanced output levels.
E. The microphone mixer shall contain an output limiter circuit. The limiter shall have a threshold adjustment range of 20dB, from -10dB to +10dB levels. A front panel on/off switch shall be provided.
F. Design Basis 8 x 1 Mixer/Preamplifier – Shure SCM800, Peavey SMR 821a, Crown 28M or Rolls RM 82.

PART 3 – INSTALLATION

3.1 INSTALLATION

A. All wiring shall be neatly done and secured properly with Velcro or zip ties
    a. Zip ties shall be used when wiring is intended to be non-movable, Velcro should be used when wiring is intended to be handled by system operators.
B. All cables must be managed and secured, cables must never be permitted to rest on the floor.
C. Antenna placements should be such that wireless microphones can be used reliably in all areas of the gymnasium.
D. Control panel shall be located in the equipment rack.
E. All solutions above shall be complete and include all required accessories to operate.
F. Any required hardware, software, or accessories to perform regular periodic maintenance or configuration must be supplied with all of the above solutions.
G. Exposed wires are not permitted without expressly written approval from owner and technology designer.
H. All visible equipment colors and placement shall be coordinated with architects, interior designers, and other trades to ensure that nothing is visually offensive or impedes the functions of another trade's workmanship. Customer shall not be liable for any costs to move, repaint, remount, or otherwise correct issues in contradiction of this statement.

3.2 TESTING

A. Measure and record impedance of each outgoing speaker line prior to connection at its respective amplifier.
B. Measure and set gain structure between all actives devices such that clipping is instantaneous throughout signal chain and signal to noise ratio is maximized.
C. Voice the system to be essentially flat from 60 Hz to 4KHz with 3db per octave roll off above 4Khz and 6db per octave roll off below 60 Hz. Adjust as necessary for natural vocals quality and natural music reproduction. Adjust equalizer curves in DSP as necessary to change with preset function selected.
D. Perform sound level and sound clarity testing in all seating areas to ensure audibility and intelligibility.
E. Testing shall be accomplished with equipment of the most recent state-of-the-art design.

3.3 CLOSE OUT DOCUMENTATION

A. Provide two 3-ring binders to the owner at the completion of the project, binder shall be printed (no hand-written aspects), tabbed (printed tabs) and include the following documentation:
    a. Floor plans detailing where electronics are installed and what their intended purpose is.
    b. Spreadsheet of all products, serial numbers, and IP addresses (if applicable)
    c. Any passwords generated (unless provided by owner) and configured on devices
    d. Datasheets for all products
    e. Include any other relevant "as-built" information
    f. Include a warranty incident resolution procedure.

3.4 TRAINING

A. Provide eight (8) hours of training for the owner of the system described herein.
B. The contractor shall show the owner all main connection points for the system, and explain the function of the system and each major component type.
C. The contractor shall instruct the owner in any maintenance requirements and procedures to be followed when new equipment is added to the system in the future.
D. Provide information on all systems including all applicable test results in the owners and operators manuals.
E. Training shall be video recorded and supplied to the owner on a USB flash disk to accompany the manuals and close out documents.
F. Contractor shall obtain a sign-off form from the owner that they have received adequate training for the equipment. The contractor shall submit this form with their as-built information to be delivered to the owner.
G. Owner has the right to waive or reduce training requirement provided such request is made in writing

END OF SECTION 27 51 00

SECTION 27 51 23 CENTRAL SOUND SYSTEM

PART 1 – GENERAL

1.1 GENERAL

A. All materials, unless otherwise specified, shall be new, free from any defects, and of the best quality of their respective kinds. All like materials used shall be of the same manufacturer, model, and quality, unless otherwise specified.
B. All material, and equipment shall be procured, stored, transported, connected, used, cleaned, adjusted, and placed in service as recommended by the manufacturers, or as indicated in their published literature, unless specifically herein specified to the contrary.
C. All technicians that perform work on this project shall do so only after reading the issued specification sections and reviewing the associated project drawings.
D. All work shall be performed by competent personnel and executed in a neat and workmanlike manner providing a thorough and complete installation. Work shall be properly protected during construction, including the shielding of soft or fragile materials. At completion, the installation shall be thoroughly cleaned and all tools, equipment, obstructions, or debris present as a result of this portion of work shall be removed from the premises.
E. All equipment shall be sourced through manufacturer approved means and channels, the sourcing of like-new or otherwise questionable (ie. Gray-market) equipment for use is strictly prohibited. All equipment shall carry an intact and honorable manufacturer warranty in addition to any warranty provided or implied by the installer/integrator.
F. The Contractor shall provide as-built drawings detailing the locations of all equipment installed as part of the system described herein.
G. The system when equipped with appropriate standard options shall be approved for direct interconnection to the utility services under part 68 of FCC rules and regulations.
H. The Contractor must demonstrate to the Owner and Engineer that the system is complete and complies with all operational requirements set forth in the plans and specifications. The Contractor shall provide all miscellaneous items and accessories required to make the system operational whether or not such items are specifically mentioned in the plans and specifications. It is the Contractor's responsibility to review the architectural, structural, mechanical, and electrical drawings, as well as the specifications, for any details that may impact the installation or provisioning of the system. Any discrepancies discovered shall be brought to the attention of the Engineer.
I. The Central Sound System and software, including classroom sound reinforcement systems shall be fully warranted for three (3) years from date of substantial completion by the contractor and manufacturer. If any defects are found within this warranty period, the defective system component shall be replaced at no extra cost to the Owner for parts or labor.

1.2 CENTRAL SOUND SYSTEM FEATURES:

A. The Contractor shall provide a central sound system such that from multiple points within the school building the occupants can pick up a telephone or use a dedicated microphone to reproduce their voice throughout the building. Integration between phone system and central sound system shall be SIP protocol.
B. Exterior speakers shall be capable of being on separate zones and programmed separately
C. Provide pre-alert tone to classroom for intercom calls and general announcements
D. Ability to produce user defined tone signals for time tones or emergency tones
E. Ability to control wireless or wired clocks provided by others
F. Ability to sync system time to the local network NTP time server
G. Ability to select the tone on an all-call basis from any, or selected, administrative telephones.
H. Provide an Ethernet port, which will give ability to monitor operations and functions of the systems
I. Provide PC or web-based off-site programming and diagnostics of the system. The system shall be capable of simultaneous conversations between administrative ports.
J. The system shall have a Windows® based PC administration programming tool which allows the administrative personnel to easily manage Audio Sources, Class Change schedules, paging groups, time updates, holiday schedules and day/night mode operation from their desktop PC. Systems that require propriety consoles, special LCD displays or solely utilize DTMF for changes to perform these functions shall not be acceptable.
K. System shall provide calendar based scheduling up to one year in advance
L. The system can automatically broadcast page emergency instructions throughout an entire school when an alarm (e.g. lockdown, lockout, security, fire) is tripped or manually activated. The emergency instructions are preprogrammed and require no user intervention. The system provides redundant alarm annunciation over intercom/paging speakers and is not meant to replace primary fire alarm or security systems.

M. The platform shall provide the ability to initiate school safety paging announcements, evacuation tones and take cover tones from any telephone within the facility or outside the facility to any other location within the facility or district.
N. Provide emergency override on board voice messaging.

PART 2 – PRODUCTS

2.1 INTERCOM PAGING SYSTEM ADMINISTRATIVE CONSOLE

A. Design Spec: Carehawk CH1000 Life Safety Communication Platform
B. The administrative phone shall provide a control center for all paging, intercom, security, video, and telephone communications through the CareHawk

2.2 AREA ZONE EQUIPMENT

A. Provide one network interface for each common area zone defined on the drawings.
B. Network interface shall have the following characteristics:
    a. Metal enclosure
    b. RJ45 Connections
C. Design Spec: Carehawk SS16
D. Provide an amplifier and appropriate number and style of speakers to adequately cover each common area zone as defined by the drawings.

2.3 AREA SPEAKERS

A. Painted enamel over 13” steel grille
    a. Coordinate color selection with architects
B. 4 Watts; 25/70 volts
C. 4 or more power taps available
D. 8” Cone speaker
E. Frequency Response: 50 Hz-12 kHz

2.4 INTERCOM PAGING SYSTEM PAGING HORN:

A. Shall be a weather-resistant, high efficiency reentrant type horn speaker.
B. All-metal construction
C. 15 watts; 25/70 volt
D. 15 Tap settings from approximately 0.25W to 15W at both 25 & 70 volt
E. Tilt and swivel base for easy positioning
F. Frequency Response: 275 Hz to 14 kHz
G. Sound Pressure Level: 121 dB @ four feet on axis with 15 watt input @ 1000 Hz
H. 9” Diameter
I. 110 Degree dispersion

PART 3 – INSTALLATION

3.1 INSTALLATION

A. All wiring shall be neatly done and secured properly with Velcro.
B. Wiring in the ceiling enclosure shall be done neatly and protected to minimize the chances of damage during normal servicing procedures.
C. All cables must be managed and secured, cables must never be permitted to rest on the floor.
D. Surface mounted cabling or raceway are never permitted without explicit permission from technology designer and architect.
E. All solutions above shall be complete and include all required accessories to operate.
F. Any required hardware, software, or accessories to perform regular periodic maintenance or configuration must be supplied with all of the above solutions.

3.2 CLOSE OUT DOCUMENTATION

A. Each piece of equipment shall be labeled as to its function and model number. Each cable run shall be labeled as to its function and type number.
B. Provide two 3-ring binders to the owner at the completion of the project, binder shall be printed (no hand-written aspects), tabbed (printed tabs) and include the following documentation:
    a. Floor plans detailing where electronics are installed and what their intended purpose is.
    b. Complete system layout Drawings. The System Drawings shall be comprised of the Head End Block Diagram and the Distribution System.
    c. Spreadsheet of all products, model numbers, serial numbers, and IP addresses (if applicable)
    d. Any passwords generated (unless provided by owner) and configured on devices
    e. Datasheets for all products
    f. Include any other relevant “as-built” information

3.3 TRAINING

A. Provide twenty-four (24) hours of training for the owner of the systems described herein. Training shall include multiple trips over the duration of the warranty period.
B. The contractor shall show the owner all main connection points for the system, and explain the function of the system and each major component type.
C. The contractor shall instruct the owner in any maintenance requirements and procedures to be followed when new equipment is added to the system in the future.
D. Provide information on all systems including all applicable test results in the owners and operators manuals.
E. Training shall be video recorded and supplied to the owner on a USB flash disk to accompany the manuals and close out documents.
F. Contractor shall obtain a sign-off form from the owner that they have received adequate training for the equipment. The contractor shall submit this form with their as-built information to be delivered to the owner.
G. Owner has the right to waive or reduce training requirement provided such request is made in writing

END OF SECTION 27 51 23

SECTION 28 15 00 – ACCESS CONTROL

PART 1 – GENERAL

1.1 GENERAL

A. All materials, unless otherwise specified, shall be new, free from any defects, and of the best quality of their respective kinds. All like materials used shall be of the same manufacturer, model, and quality, unless otherwise specified.

B. All materials, labor, equipment, programming, permits, etc., to provide completely operational systems as described herein and illustrated on the drawings shall be provided and installed. The project drawings and specification sections are considered complementary to each other, and are both to be considered as describing the design intent of the security system.

C. All material, and equipment shall be procured, stored, transported, connected, used, cleaned, adjusted, and placed in service as recommended by the manufacturers, or as indicated in their published literature, unless specifically herein specified to the contrary.

D. All technicians that perform work on this project shall do so only after reading the issued specification sections and reviewing the associated project drawings.

E. All work shall be performed by competent personnel and executed in a neat and workmanlike manner providing a thorough and complete installation. Work shall be properly protected during construction, including the shielding of soft or fragile materials. At completion, the installation shall be thoroughly cleaned and all tools, equipment, obstructions, or debris present as a result of this portion of work shall be removed from the premises.

F. All equipment shall be sourced through manufacturer approved means and channels, the sourcing of like-new or otherwise questionable (ie. Gray-market) equipment for use is strictly prohibited. All equipment shall carry an intact and honorable manufacturer warranty in addition to any warranty provided or implied by the installer/integrator.

G. The Contractor shall have certified personnel involved in the job who hold certifications from the access control system manufacturer.

H. Certified personnel must have a minimum of 1 year experience with the product since receiving the certifications.

I. The Contractor shall have at least 5-years' experience selling, installing, and servicing equipment from the access control manufacturer.

J. The Contractor shall provide as-built drawings detailing the locations of all equipment installed as part of the system described herein.

K. The Contractor must demonstrate to the Owner and Engineer that the system is complete and complies with all operational requirements set forth in the plans and specifications.

L. System shall expand on the capabilities of the existing RS2 installed infrastructure at other district facilities.

PART 2 – PRODUCTS

2.1 ACCESS CONTROL CABLING

A. For all door locations listed with CR/DPS/EL, provide the following:

a. (1) each of West Penn 253270BGY100 shielded 22/6 to CR location

b. (1) each of West Penn 25293BGY1000 shielded 18/2 to power supply/EL location

c. (1) each of West Penn 25293BGY1000 shielded 18/2 to DPS location

B. For all doors listed with DPS only, use Belden 6502UE or equivalent

C. For motion sensors, use Belden 6502UE or equivalent

2.2 ACCESS CONTROL ENCLOSURE

A. 18 gauge steel

B. NEMA Type 1 approved

C. Capacity up to 6 Mercury boards

D. Design Basis: RS2 NCL-12UL

2.3 ACCESS CONTROL INTERFACE

A. Serial input/output dual card reader interface

B. OSDP Support

C. RS-485 host connectivity

D. Design Basis: Mercury MR52-S3 and MR50-S3

2.4 ACESS CONTROLLER

A. Open architecture – Support for RS2 access control platform

B. Ethernet Interface

C. RS-485 connectivity

D. OSDP Support

E. Design Basis: Mercury LP1502

2.5 DOOR INTERCOM

A. Video Door Station with HID ProxPoint Plus Reader

B. Cat-5e wired to central exchange unit

C. Stainless steel

D. Flush mountabled

E. Design Basis: Aiphone IX-DVF

2.6 ACCESS CONTROL READER

A. Multiple Technology

B. 13.56 MHz and 125 kHz frequency

C. Wiegand & OSDP communication

D. Design Basis: Schlage MT Series readers

PART 3 – Execution

3.1 INSTALLERS

A. Provide experienced and qualified technicians to install electrically operated door access controls and intrusion detection systems and components.

B. Ensure that all jobsite rules and regulations are followed and that there is no infringements on agreements or contracts with other trades.

3.2 MANUFACTURER'S INSTRUCTIONS

A. Comply with manufacturer's written data, including product technical bulletins, product catalog installation instructions, product carton installation instructions and technical data sheets.

3.3 EXAMINATION

A. Site Verification of Conditions

a. Verify that conditions of substrates previously installed under other sections or contracts are acceptable with electrically operated door access controls and intrusion detection systems and components.

b. Ensure electrical power supply is installed to meet electrical requirements in accordance with Section 26 05 00 - Common Work Results for Electrical.

c. Inform owner or their representative of unacceptable conditions immediately upon discovery.

d. Proceed with installation only after unacceptable conditions have been corrected.

3.4 COORDINATION

A. Coordinate placement with placement of other ceiling, door, gate, and wall mounted components.

B. Coordinate requirements for power, data, pathway, and other necessities with applicable trades.

C. Coordinate installation with existing RS2 system at other district facilities.

3.5 INSTALLATION

A. All wiring shall be neatly done and secured properly with Velcro or Zip ties.

a. Zip ties shall only be used where wiring should not require periodic movement or maintenance. If regular maintenance of wire bundles will be required only Velcro is acceptable.

B. Any required hardware, software, or accessories to perform regular periodic maintenance or configuration must be supplied with all of the above solutions.

3.6 TESTING AND QUALITY ASSURANCE

A. Operate all components under varying conditions to ensure that system is complete and operable.

B. Ensure that system is installed in accordance with all local codes, ordinances, and industry best practices.

3.7 CLOSE OUT DOCUMENTATION

A. Provide two 3-ring binders to the owner at the completion of the project, binder shall be printed (no hand-written aspects), tabbed (printed tabs) and include the following documentation:

a. Diagrams by room detailing where network electronics are installed and what their intended purpose is (ie. WLAN, data, VoIP, CCTV)

b. Floorplans detailing where electronics are installed and how they connect back to the head end.

c. Head end connectivity diagrams.

d. Spreadsheet of all products, serial numbers, and IP addresses

e. Any passwords generated (unless provided by owner) and configured on devices

f. Datasheets for all products

g. Include any other relevant “as-built” information

END OF SECTION 28 15 00

MODEL

EARLY CHILDOOD RENOVATION

825 WAYCROSS ROAD, CINCINNATI, OH 45240

SHP

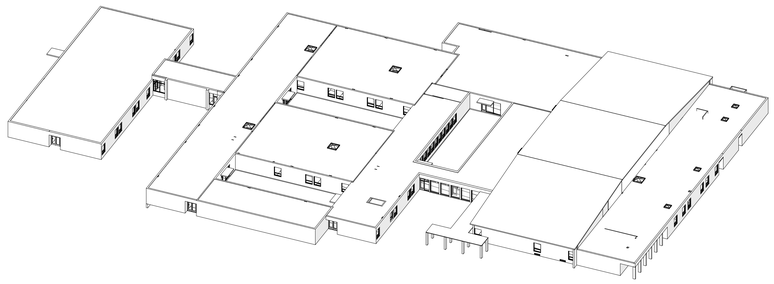
SHP - ARCHITECT
312 Plum Street, Suite 700, Cincinnati, OH 45202
PHONE: (513) 381-2112 FAX: (513) 381-5121

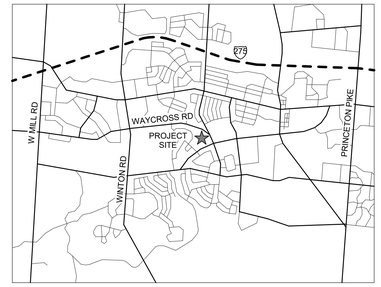
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644 Linn Street, Suite 936, Cincinnati, OH 45203-1738
PHONE: (513) 621-7073 FAX: (513) 621-0434

SHP - PME ENGINEER
312 Plum Street, Suite 700, Cincinnati, OH 45202
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THE KLEINGERS GROUP - CIVIL ENGINEER
6219 Centre Park Drive, West Chester, OH 45069
PHONE: (513) 779-7851 FAX: (513) 779-7852

THE KLEINGERS GROUP - LANDSCAPE ARCHITECT
6219 Centre Park Drive, West Chester, OH 45069
PHONE: (513) 779-7851





VICINITY MAP
NTS

SHEET INDEX

GENERAL
G000 TITLE SHEET
G001 CODE DATA SHEETS

DEMO
D101 FIRST FLOOR DEMO PLAN - AREA A
D102 FIRST FLOOR DEMO PLAN - AREA B
D103 FIRST FLOOR DEMO PLAN - AREA C
D401 FIRST FLOOR DEMO REFLECTED CEILING PLAN - AREA A
D403 FIRST FLOOR DEMO REFLECTED CEILING PLAN - AREA C

CIVIL
C100 GENERAL NOTES & DETAILS
C110 SURVEY BASEMAP
C120 DEMOLITION PLAN
C130 LOCATION PLAN
C140 GRADING PLAN

ARCHITECTURAL
A000 SIGNAGE SCHEDULE AND TYPICAL DETAILS
A010 OPENING SCHEDULE
A011 ACCESS CONTROL
A030 HEAD, JAMB, & SILL DETAILS
A040 STANDARD PARTITION TYPES
A051 OVERALL FIRST FLOOR PLAN
A101A FIRST FLOOR PLAN - AREA A
A101B FIRST FLOOR PLAN INTERIOR - AREA A
A102A FIRST FLOOR PLAN - AREA B
A102B FIRST FLOOR PLAN INTERIOR - AREA B
A103A FIRST FLOOR PLAN - AREA C
A103B FIRST FLOOR PLAN INTERIOR - AREA C
A140 ROOF PLAN
A150 ENLARGED TOILET ROOM PLANS
A180 PLAN DETAILS
A301 ENLARGED STAIR & RAMP PLANS
A401 FIRST FLOOR REFLECTED CEILING PLAN - AREA A
A402 FIRST FLOOR REFLECTED CEILING PLAN - AREA B
A403 FIRST FLOOR REFLECTED CEILING PLAN - AREA C
A501 SECTIONS
A601 FIRST FLOOR FINISH PLAN - AREA A
A602 FIRST FLOOR FINISH PLAN - AREA B
A603 FIRST FLOOR FINISH PLAN - AREA C
A640 INTERIOR ELEVATIONS
A641 INTERIOR ELEVATIONS & DETAILS

FURNITURE
FC101 FIRST FLOOR FURNITURE COORDINATION PLAN - AREA A
FC102 FIRST FLOOR FURNITURE COORDINATION PLAN - AREA B
FC103 FIRST FLOOR FURNITURE COORDINATION PLAN - AREA C

FOOD SERVICES
FS101 FOOD SERVICE EQUIPMENT FLOOR PLAN
FS102 FOOD SERVICE EXHAUST SYSTEM DETAILS

STRUCTURAL
S000 GENERAL NOTES, DESIGN LOADS & ABBREVIATIONS
S100 FOUNDATION / ROOF FRAMING PLAN
S400 SECTIONS AND DETAILS
SK001 Unnamed
SK002 HVAC DIM PLAN
SK003 Unnamed
SK004 Unnamed

PLUMBING
P000 PLUMBING SCHEDULES AND LEGENDS
P011 PLUMBING DEMOLITION PLAN AREA A
P012 PLUMBING DEMOLITION PLAN AREA B
P013 PLUMBING DEMOLITION PLAN AREA C
P101 FOUNDATION PLUMBING PLAN AREA A
P102 FOUNDATION PLUMBING PLAN AREA B
P103 FOUNDATION PLUMBING PLAN AREA C
P201 FIRST FLOOR PLUMBING PLAN AREA A
P202 FIRST FLOOR PLUMBING PLAN AREA B
P203 FIRST FLOOR PLUMBING PLAN AREA C
P300 ENLARGED KITCHEN PLUMBING PLAN
P400 WASTE AND VENT ISOMETRICS - AREAS A & B
P401 WASTE AND VENT ISOMETRICS - AREA C
P402 SUPPLY ISOMETRICS - AREA A & B
P403 SUPPLY ISOMETRICS - AREA B & C

MECHANICAL
M000 MECHANICAL SCHEDULES, LEGENDS AND DETAILS
M010 MECHANICAL RENO DEMOLITION PLAN AREA A
M011 MECHANICAL RENO DEMOLITION PLAN AREA B
M100 FIRST FLOOR RENO DUCTWORK PLAN AREA A
M101 FIRST FLOOR RENO DUCTWORK PLAN AREA B
M102 FIRST FLOOR RENO DUCTWORK PLAN AREA C

ELECTRICAL
E000 ELECTRICAL LEGENDS
E010 FIRST FLOOR DEMO PLAN AREA A
E011 FIRST FLOOR DEMO PLAN AREA B
E012 FIRST FLOOR DEMO PLAN AREA C
E100 FIRST FLOOR LIGHTING PLAN AREA A
E101 FIRST FLOOR LIGHTING PLAN AREA B
E102 FIRST FLOOR LIGHTING PLAN AREA C
E200 FIRST FLOOR POWER PLAN AREA A
E201 FIRST FLOOR POWER PLAN AREA B
E202 FIRST FLOOR POWER PLAN AREA C
E203 ROOF POWER PLAN
E300 FIRE ALARM PLAN AREA A
E301 FIRE ALARM PLAN AREA B
E302 FIRE ALARM PLAN AREA C
E400 PANEL SCHEDULES
E401 PANEL SCHEDULES
E402 PANEL SCHEDULES
E403 PANEL SCHEDULES
E500 ELECTRICAL DETAILS
E501 LIGHTING CONTROL DETAILS
E502 LIGHTING CONTROL DETAILS
E520 ENLARGED KITCHEN PLAN
E600 ELECTRICAL SINGLE LINE DIAGRAM

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ISSUANCES

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1	05-25-23	ADDENDUM 1

TITLE SHEET

DATE 4/28/23

COMM NO. 2021091.02

G000

0.1" REFERENCE LINE

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DEMOLITION PLAN LEGEND

- NO WORK THIS AREA
- EXISTING WALL/PARTITION TO REMAIN
- REMOVE EXISTING WALL/PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- REMOVE EXISTING DOOR (REMOVE EXISTING FRAME ONLY WHERE NOTED)

GENERAL NOTES - DEMOLITION PLAN

A. REPAIR EXISTING SURFACES WHERE DEMOLITION HAS OCCURED FOR NEW CONSTRUCTION. GENERAL TRADES CONTRACTOR SHALL PATCH/REPAIR WALL, FLOOR AND CEILING SURFACES AFFECTED BY DEMOLITION WORK. PATCHING/CUTTING OF EXISTING SURFACES FOR NEW WORK SHALL BE THE RESPONSIBILITY OF THE RESPECTIVE CONTRACTOR PERFORMING THE WORK. ALL REPAIRS SHALL MATCH EXISTING ADJACENT SURFACES IN MATERIAL, FINISH, TEXTURE, ETC. THIS WORK IS TO BE INCLUDED IN BASE BID AND IS NOT TO BE INCLUDED IN THE QUANTITY ALLOWANCE."

B. UNLESS DIRECTED BY OWNER OR OTHERWISE NOTED, ALL MISCELLANEOUS ITEMS ATTACHED TO FLOORS, WALLS, OR CEILINGS ARE TO BE REMOVED THAT INTERFERE WITH INSTALLATION OR ALIGNMENT OF NEW WORK. THIS INCLUDES BUT NOT LIMITED TO: SHELVES, BRACKETS, POSTERS, PAINTINGS, ART OR OTHER DISPLAYS, PROJECTION SCREENS, CLOCKS, PA SYSTEM SPEAKERS, AND VISUAL DISPLAY BOARDS. PATCH FLOORS, WALLS, AND CEILINGS AS REQUIRED TO MATCH EXISTING ADJACENT SURFACES IN MATERIALS, FINISH, TEXTURE, ETC., AND PREP FOR NEW FINISH.

C. OWNER WILL REMOVE ALL LOOSE FURNITURE/APPLIANCES IN ROOMS PRIOR TO THE COMMENCEMENT OF DEMOLITION.

D. AT ALL EXISTING SURFACES SCHEDULED TO RECEIVE A NEW PAINT FINISH REMOVE ANY EXISTING FASTENERS, BRACKETS, ETC. IN WALLS THAT ARE NOT BEING USED AND PATCH TO MATCH EXISTING ADJACENT SURFACES IN MATERIALS, FINISH, TEXTURE, ETC. PATCH CHIPPED PAINT SURFACES ON PLASTER WALLS TO MATCH ADJACENT SURFACE TEXTURE. SAND CHIPPED EDGES ON WOOD AND METAL SURFACES SMOOTH.

E. NOT ALL ROOM MATERIAL/FINISH DEMOLITION INDICATED. WHERE NEW MATERIAL/FINISH IS INDICATED IN ROOM FINISH SCHEDULE, REMOVE EXISTING MATERIALS/FINISH INCLUDING FLOOR AND BASE, ADHESIVES/MASTICS, FLOOR SEALERS AND CURING COMPOUNDS, AND FLOOR PAINT WHETHER OR NOT SHOWN TO BE REMOVED ON DEMOLITION FLOOR PLANS.

F. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL ITEMS TO BE DEMOLISHED.

G. PLACEHOLDER

H. REMOVE EXISTING WOOD BASE WHERE NEW CASEWORK EXTENDS TO FLOOR.

I. WHERE FLOOR SLABS TO REMAIN ARE DISCONTINUOUS AT WALLS AND PARTITIONS NOTED TO BE REMOVED, REMOVE WALL/PARTITION TO BELOW FLOOR SLAB AND PATCH SLAB THROUGH OPENING.

J. WHERE NEW OPENINGS OCCUR WHERE EXISTING WALLS HAVE BEEN REMOVED, FEATHER CEMENT-BASED UNDERLAYMENT AT A DISTANCE OF 8 FEET FROM EACH JAMB TO PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING FLOOR FINISHES ON EACH SIDE OF THE OPENING. FLOOR SURFACE SHALL BE FLAT WITHIN 3/16" IN 10 FEET IN ACCORDANCE WITH ASTM F710.

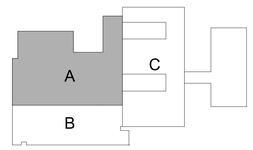
K. ALL BLACKBOARDS AND ASSOCIATED TACK BOARDS TO BE DEMOLISHED.

KEY NOTES - DEMOLITION PLANS

D1 REMOVE EXISTING PARTITION TO EXTENT SHOWN, TYP.
D2 REMOVE EXISTING DOOR, FRAME, AND ASSOCIATED HARDWARE. TYP.
D3 REMOVE EXISTING STOREFRONT
D31 REMOVE PORTION OF EXISTING WALL TO ALLOW FOR NEW 3'-0"X 7'-0" DOOR. PROVIDE LINTELS AS NECESSARY FOR NEW DOOR OPENING.
D36 ALTERNATE #7 - REMOVE EXISTING BLEACHERS
D37 ALTERNATE #4A - REVOME EXISTING LOCKERS
D40 PROTECT EXISTING CASEWORK - TO REMAIN
D45 REMOVE AND SALVAGE EXISTING DISPLAY BOARD. REINSTALL IN SAME ROOM SAME LOCATION AFTER PAINTING COMPLETED
D50 EXISTING SHELVES AND BRACKETS ES-1 TO BE REMOVED AND SALVAGED. REINSTALL IN NEW LOCATIONS AS NOTED IN THE A100 PLAN SHEETS.
D51 EXISTING SHELVES AND BRACKETS ES-2A TO BE REMOVED AND SALVAGED. REINSTALL IN NEW LOCATIONS AS NOTED IN THE A100 PLAN SHEETS.
D52 EXISTING SHELVES AND BRACKETS ES-2B TO BE REMOVED AND SALVAGED. REINSTALL IN NEW LOCATIONS AS NOTED IN THE A100 PLAN SHEETS.
D73 REMOVE AND SALVAGE EXISTING SHELVES AND BRACKETS. REINSTALL IN SAME ROOM SAME LOCATION AFTER ALL PAINTING IS COMPLETED
D74 EXISTING SHELVES AND BRACKETS ES-15 TO BE REMOVED AND SALVAGED. REINSTALL IN NEW LOCATIONS AS NOTED IN THE A100 PLAN SHEETS.
D96 EXISTING DISPLAY BOARD EM-17 TO BE REMOVED AND SALVAGED. REINSTALL IN NEW LOCATIONS AS NOTED IN THE A100 SHEETS
D98 REMOVE EXISTING THROUGH WALL AC UNIT. INFILL OPENING WITH MATERIALS TO MATCH EXISTING ADJACENT SURFACE. MATCH THICKNESS, COLOR, AND TEXTURE
D101 ALTERNATE #1 - REMOVE EXISTING DOOR AND ASSOCIATED HARDWARE, EXISTING FRAME TO REMAIN
D103 SAWCUT CONCRETE SLAB FOR PLUMBING WORK. PATCH ALL WALLS AND FLOORS ASSOCIATED WITH PLUMBING DEMO TO MATCH EXISTING ADJACENT SURFACE IN MATERIAL, COLOR, AND TEXTURE. ALL SAW CUT AREAS MAY NOT BE INDICATED. REFER TO PLUMBING DRAWINGS
D104 DEMO EXISTING WATER COOLER AND PORTION OF WALL TO ALLOW FOR NEW WATER COOLER



1 / D101 FIRST FLOOR DEMO PLAN - AREA A
1/8" = 1'-0"



KEY PLAN
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ISSUANCES

	04-28-23	BID / PERMIT
1	05-25-23	ADDENDUM 1

FIRST FLOOR DEMO PLAN - AREA A

DATE 4/28/23
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D101

0"x1" REFERENCE LINE

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1 D403 FIRST FLOOR DEMO REFLECTED CEILING PLAN - AREA C
1/8" = 1'-0"

4 D403 ENLARGED SECTION
1/2" = 1'-0"

3 D403 LOCKER & SOFFIT SECTION
1/2" = 1'-0"

DEMOLITION PLAN LEGEND

- NO WORK THIS AREA
- EXISTING WALL/PARTITION TO REMAIN
- REMOVE EXISTING WALL/PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- REMOVE EXISTING DOOR (REMOVE EXISTING FRAME ONLY WHERE NOTED)

GENERAL NOTES - DEMOLITION PLAN

A. REPAIR EXISTING SURFACES WHERE DEMOLITION HAS OCCURED FOR NEW CONSTRUCTION. GENERAL TRADES CONTRACTOR SHALL PATCH/REPAIR WALL, FLOOR AND CEILING SURFACES AFFECTED BY DEMOLITION WORK. PATCHING/CUTTING OF EXISTING SURFACES FOR NEW WORK SHALL BE THE RESPONSIBILITY OF THE RESPECTIVE CONTRACTOR PERFORMING THE WORK. ALL REPAIRS SHALL MATCH EXISTING ADJACENT SURFACES IN MATERIAL, FINISH, TEXTURE, ETC. THIS WORK IS TO BE INCLUDED IN BASE BID AND IS NOT TO BE INCLUDED IN THE QUANTITY ALLOWANCE."

B. UNLESS DIRECTED BY OWNER OR OTHERWISE NOTED, ALL MISCELLANEOUS ITEMS ATTACHED TO FLOORS, WALLS, OR CEILINGS ARE TO BE REMOVED THAT INTERFERE WITH INSTALLATION OR ALIGNMENT OF NEW WORK. THIS INCLUDES BUT NOT LIMITED TO: SHELVES, BRACKETS, POSTERS, PAINTINGS, ART OR OTHER DISPLAYS, PROJECTION SCREENS, CLOCKS, PA SYSTEM SPEAKERS, AND VISUAL DISPLAY BOARDS. PATCH FLOORS, WALLS, AND CEILINGS AS REQUIRED TO MATCH EXISTING ADJACENT SURFACES IN MATERIALS, FINISH, TEXTURE, ETC., AND PREP FOR NEW FINISH.

C. OWNER WILL REMOVE ALL LOOSE FURNITURE/APPLIANCES IN ROOMS PRIOR TO THE COMMENCEMENT OF DEMOLITION.

D. AT ALL EXISTING SURFACES SCHEDULED TO RECEIVE A NEW PAINT FINISH REMOVE ANY EXISTING FASTENERS, BRACKETS, ETC. IN WALLS THAT ARE NOT BEING USED AND PATCH TO MATCH EXISTING ADJACENT SURFACES IN MATERIALS, FINISH, TEXTURE, ETC. PATCH CHIPPED PAINT SURFACES ON PLASTER WALLS TO MATCH ADJACENT SURFACE TEXTURE. SAND CHIPPED EDGES ON WOOD AND METAL SURFACES SMOOTH.

E. NOT ALL ROOM MATERIAL/FINISH DEMOLITION INDICATED. WHERE NEW MATERIAL/FINISH IS INDICATED IN ROOM FINISH SCHEDULE, REMOVE EXISTING MATERIALS/FINISH INCLUDING FLOOR AND BASE, ADHESIVES/MASTICS, FLOOR SEALERS AND CURING COMPOUNDS, AND FLOOR PAINT WHETHER OR NOT SHOWN TO BE REMOVED ON DEMOLITION FLOOR PLANS.

F. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL ITEMS TO BE DEMOLISHED.

G. PLACEHOLDER

H. REMOVE EXISTING WOOD BASE WHERE NEW CASEWORK EXTENDS TO FLOOR.

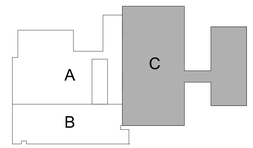
I. WHERE FLOOR SLABS TO REMAIN ARE DISCONTINUOUS AT WALLS AND PARTITIONS NOTED TO BE REMOVED, REMOVE WALL/PARTITION TO BELOW FLOOR SLAB AND PATCH SLAB THROUGH OPENING.

J. WHERE NEW OPENINGS OCCUR WHERE EXISTING WALLS HAVE BEEN REMOVED, FEATHER CEMENT-BASED UNDERLAYMENT AT A DISTANCE OF 8 FEET FROM EACH JAMB TO PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING FLOOR FINISHES ON EACH SIDE OF THE OPENING. FLOOR SURFACE SHALL BE FLAT WITHIN 3/16" IN 10 FEET IN ACCORDANCE WITH ASTM F710.

K. ALL BLACKBOARDS AND ASSOCIATED TACK BOARDS TO BE DEMOLISHED.

KEY NOTES - DEMOLITION PLANS

D15	ALTERNATE #4A - REMOVE EXISTING SOFFIT
D37	ALTERNATE #4A - REVOME EXISTING LOCKERS
D43	REMOVE LOWER PORTION OF SOFFIT. SEE DETAIL 3/D403
D44	REMOVE EXISTING SOFFITS
D105	REMOVE EXISTING LOCKERS - BASE BID



KEY PLAN
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FIRST FLOOR DEMO REFLECTED CEILING PLAN - AREA C

DATE 4/28/23

COMM NO. 2021091.02

D403

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"0-1" REFERENCE LINE

GENERAL NOTES

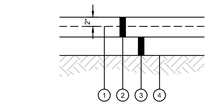
1. THE CITY OF FOREST PARK, AND THE CURRENT EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (ODOT CMS), INCLUDING ALL SUPPLEMENTS, SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THIS PLAN. IGNORE REFERENCES TO MEASUREMENT AND PAYMENT IN THE ODOT CMS UNLESS NOTED OTHERWISE. IN THE CASE OF CONFLICTS BETWEEN THE ODOT CMS AND THE CITY OF FOREST PARK REQUIREMENTS, THE CITY OF FOREST PARK REQUIREMENTS SHALL PREVAIL.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CALL, TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 48 HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES WHO ARE NON-MEMBERS OF THE OHIO UTILITIES PROTECTION SERVICE AT LEAST 48 HOURS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.
3. CONTRACTOR SHALL OBTAIN A PERMIT FOR ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS.
4. THE CONTRACTOR IS TO PERFORM ALL INSPECTIONS AS REQUIRED BY THE OHIO EPA FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND FURNISH OWNERS REPRESENTATIVE WITH WRITTEN REPORTS.
5. THE CONTRACTOR IS REQUIRED TO VISIT THE SITE AND FULLY INFORM THEMSELVES CONCERNING ALL CONDITIONS AFFECTING THE SCOPE OF THE WORK. FAILURE TO VISIT THE SITE SHALL NOT RELIEVE THEM FROM ANY RESPONSIBILITY IN THE PERFORMANCE OF THE CONTRACT.
6. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR EXPENSES INCURRED DUE TO SOIL CONDITIONS, GROUNDWATER, AND/OR ROCK EXCAVATION, ALL OF THESE ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
7. THE COST OF ALL DEWATERING REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
8. THE DIRECT OR INDIRECT DISCHARGE OR PUMPING OF UNFILTERED SEDIMENT-LADEN WATER INTO THE STORM DRAINAGE SYSTEM OR WATERCOURSE IS ILLEGAL AND PROHIBITED.
9. ANY WELL, WELL POINT, PIT, OR OTHER DEVICE INSTALLED FOR THE PURPOSE OF LOWERING THE GROUND WATER TO FACILITATE CONSTRUCTION OF THIS PROJECT SHALL BE PROPERLY ABANDONED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 3745-9-10 OF THE OHIO ADMINISTRATIVE CODE OR IN ACCORDANCE WITH THE PROVISIONS OF THIS PLAN AS DIRECTED BY THE DIRECTOR OF PUBLIC UTILITIES OR HIS REPRESENTATIVE.
10. ANY CONTRACTOR INSTALLING ANY WELL, WELL POINT, PIT, OR OTHER DEVICE USED FOR THE PURPOSE OF REMOVING GROUND WATER FROM AN AQUIFER SHALL COMPLETE AND FILE A WELL LOG AND DRILLING REPORT FORM WITH THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR), DIVISION OF WATER, WITHIN 30 DAYS OF THE WELL COMPLETION IN ACCORDANCE WITH THE OHIO REVISED CODE SECTION 1521.01 AND 1521.05 IN ADDITION, ANY SUCH FACILITY IS COMPLETED IN ACCORDANCE WITH SECTION 1521.16 OF THE OHIO REVISED CODE. FOR COPIES OF THE NECESSARY WELL LOG, DRILLING REPORT, OR REGISTRATION FORMS, PLEASE CONTACT: DIVISION OF WATER, OHIO DEPARTMENT OF NATURAL RESOURCES, FOUNTAIN SQUARE, COLUMBUS, OHIO 43224, (614)2656717.
11. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO THE ODNR FOR THE REGISTRY, MAINTENANCE AND ABANDONMENT OF ANY WITHDRAWAL DEVICE USED IN CONSTRUCTION OF THIS PROJECT.
12. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT AND/OR FACE OF CURB, UNLESS OTHERWISE NOTED.
13. ALL SITE SIGNAGE, STRIPING COLOR AND WIDTH SHALL BE PER THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
14. ALL EXISTING PAVEMENTS, WALKS, CURBS, ETC. SHALL BE SAWCUT BEFORE REMOVAL, IF, DURING CONSTRUCTION, THE PAVEMENT, WALKWAY, CURB, ETC. IS DAMAGED BEYOND THE ORIGINAL SAWCUT, THE DAMAGED AREA SHALL BE RECUT TO NEAT LINES AS DIRECTED BY THE ENGINEER. PAYMENT FOR SAWCUTTING SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
15. THE CONTRACTOR SHALL SAWCUT EXISTING PAVEMENT TO PROVIDE A SMOOTH VERTICAL FULL DEPTH BUTT JOINT BETWEEN THE EXISTING PAVEMENT OR CURB AND THE PROPOSED PAVEMENT. CONTRACTOR SHALL LOCATE SOUND PAVEMENT EDGE AND CUT AND TRIM PAVEMENT TO A NEAT LINE. INCLUDE THE COST OF PAVEMENT REMOVAL AND DISPOSAL IN THE PRICE BID FOR THE PROJECT.

GRADING NOTES

1. CONTRACTOR TO REMOVE TREES AND CLEAR AREAS AS NECESSARY TO PERFORM ALL SITE WORK INCLUDING GRADING AND UTILITY WORK.
2. PROTECTION OF EXISTING TREES AND VEGETATION. PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE. PROVIDE TEMPORARY GUARDS TO PROTECT TREES AND VEGETATION TO BE LEFT STANDING.
3. ALL ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.
4. SITE BUILDING PAD EXCAVATION AND CONSTRUCTION TO BE PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. BUILDING PAD PREPARATION SHALL BEGIN BY CLEARING & STRIPPING UNSUITABLE MATERIAL FROM PAD SITE. THEN PLACE & COMPACT BACKFILL MATERIAL AT GEOTECHNICAL ENGINEER'S AND ARCHITECT'S RECOMMENDATIONS. ALL BACKFILL MATERIAL MUST BE ACCEPTABLE TO THE GEOTECHNICAL ENGINEER.
5. ALL FILL UNDER PAVEMENT SHALL BE COMPACTED TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
6. THE CONTRACTOR IS RESPONSIBLE FOR BALANCING THE SITE EARTHWORK ON SITE. THE CONTRACTOR IS RESPONSIBLE FOR BURY/BORROW PITS AS NEEDED TO BALANCE THE SITE. GEOTECH AND ENGINEER MUST APPROVE AREAS PRIOR TO BURY/BORROW OPERATIONS. AS-BUILT OF BURY/BORROW PIT WILL BE REQUIRED AT COMPLETION OF CONTRACTOR WORK AND MUST BE SUBMITTED TO THE CONSTRUCTION MANAGER.
7. CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL PRACTICES REQUIRED BY CITY OF FOREST PARK AND THE OHIO EPA.
8. ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. IF NO SPECIFICATIONS ARE SUPPLIED, USE ODOT ITEM 659.
9. CONTRACTOR TO LAYOUT BUILDING BASED ON ARCHITECTURAL/FOUNDATION PLANS. SITE PLAN IS FOR CONCEPTUAL PURPOSES ONLY.

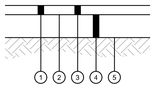
UTILITY NOTES

1. ALL DRAIN TILE AND STORM SEWERS DAMAGED, DISTURBED OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH THE SAME QUALITY PIPE OR BETTER, MAINTAINING THE SAME GRADIENT AS EXISTING. THE DRAIN TILE AND/OR STORM SEWER SHALL BE CONNECTED TO THE CURB SUBDRAIN, STORM SEWER SYSTEM OR OUTLETTED INTO THE ROADWAY DITCH AS APPLICABLE. REPLACED DRAIN TILE/STORM SEWER SHALL BE LAID ON COMPACTED BEDDING EQUAL IN DENSITY TO SURROUNDING STRATUM. REPLACEMENT SHALL BE DONE AT THE TIME OF THE BACKFILL OPERATION. COST OF THIS WORK TO BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
2. ALL EXISTING UTILITIES KNOWN TO EXIST HAVE BEEN SHOWN ON THESE PLANS IN THEIR APPROXIMATE LOCATION. PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS, THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF THE UTILITIES SHOWN. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE PROTECTION AND/OR RELOCATION OF ANY UTILITIES THAT MAY EXIST AND ARE NOT SHOWN.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION AND/OR PROTECTION OF ANY UTILITIES AS REQUIRED BY THE PLAN WITH THE OWNER OF THE AFFECTED UTILITY.
4. UTILITY POLES WITHIN INFLUENCE OF THE UTILITY OPERATIONS SHALL BE REINFORCED BY THE UTILITY COMPANY PRIOR TO THESE CONSTRUCTION ACTIVITIES. NOTIFICATION OF THE UTILITY COMPANY PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. COMPACTED FILLS ARE TO BE MADE TO A MINIMUM OF THREE FEET ABOVE THE CROWN OF ANY PROPOSED SEWER PRIOR TO CUTTING OF TRENCHES FOR PLACEMENT OF SAID SEWERS. ALL FILLS SHALL BE CONTROLLED, COMPACTED, AND INSPECTED BY AN APPROVED TESTING LABORATORY OR AN INSPECTOR FROM THE APPROPRIATE GOVERNMENTAL AGENCY.
6. CONTRACTOR TO REPLACE ANY PAVEMENT OR UTILITIES DAMAGED WHICH ARE NOT SPECIFIED TO BE REMOVED ON THESE PLANS.
7. ADJUST ALL EXISTING CASTINGS AND CLEANOUTS WITHIN PROJECT AREA TO GRADE AS REQUIRED.
8. DISTANCES SHOWN FOR BOTH SANITARY AND STORM SEWER PIPES ARE MEASURED FROM CENTER OF STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL FIELD CUT LENGTH, COORDINATES FOR STORM AND SANITARY STRUCTURES ARE SHOWN TO THE CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.
9. ALL PROPOSED STORM SEWERS, SURFACE OR OTHER DRAINAGE FACILITIES ARE TO BE PRIVATE AND MAINTAINED BY THE OWNER. EROSION CONTROL MEASURES MUST PROVIDE PROTECTION UNTIL COMPLETION OF THE PROJECT AND VEGETATIVE STABILIZATION.
10. THE CONTRACTOR IS TO CONSTRUCT CURBS, CATCH BASINS, DOWNSPOUTS, PIPING AND CONNECTIONS ETC. AS REQUIRED TO CONVEY THE ROOF AND PAVED SURFACE DRAINAGE TO THE DETENTION BASIN.
11. SITE CONTRACTOR SHALL PICK UP ALL UTILITIES, WITH THE EXCEPTION OF DOWNSPOUTS, 5' OUTSIDE BUILDING WALL. COORDINATE WITH CONSTRUCTION MANAGER.
12. STORM SEWER PIPE LABELED "STM" SHALL BE ONE OF THE FOLLOWING: PVC SDR-35 PER ODOT ITEM 707.45, PVC PROFILE PIPE PER ODOT ITEM 707.43, HIGH DENSITY POLYETHYLENE PER ODOT ITEM 707.33, ALUMINIZED CORRUGATED METAL, ODOT ITEM 707.01, 707.02, OR REINFORCED CONCRETE PIPE, ODOT ITEM 706.02 CLASS IV. STORM SEWER PIPE LABELED "RCP" SHALL BE REINFORCED CONCRETE PIPE, ODOT ITEM 706.02 CLASS IV. ALL STORM IS TO BE INSTALLED PER ODOT ITEM 611. ALL STORM PIPE USED MUST HAVE A MANUFACTURER SPECIFIED FRICTION FACTOR OF 0.013 (N=0.013) OR LESS.
13. ALL EXISTING INVERTS ALONG PROPOSED PIPE ALIGNMENTS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF THE SEWER.
14. ANY FIELD TILE CUT IN EXCAVATION WHICH DRAINS IN AN OFFSITE AREA MUST BE TIED INTO THE STORM DRAINAGE SYSTEM.
15. THE FLOW IN ALL SEWERS, DRAINS, FIELD TILES AND WATERCOURSES ENCOUNTERED SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE, AND WHENEVER SUCH WATERCOURSES AND DRAINS ARE DISTURBED OR DESTROYED DURING THE PROSECUTION OF THE WORK, THEY SHALL BE RESTORED BY THE CONTRACTOR AT HIS OWN EXPENSE TO A CONDITION SATISFACTORY TO THE ENGINEER.



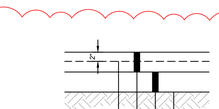
1. 6X6 W4XW4 WELDED WIRE REINFORCEMENT
2. 8" ODOT ITEM 452 NONREINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
3. 6" ODOT ITEM 304 AGGREGATE BASE
4. SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204, EARTHWORK SPECIFICATION 312000 AND SOILS REPORT

HEAVY DUTY CONCRETE PAVEMENT DETAIL (3/C100) N.T.S.



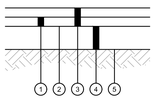
1. 1 1/2" ODOT ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE
2. ODOT ITEM 407 TACK COAT
3. 1 1/2" ODOT ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
4. EXISTING PAVEMENT SECTION
5. EXISTING SUBGRADE

ASPHALT PAVEMENT PLANING AND OVERLAY DETAIL (4/C100) N.T.S.



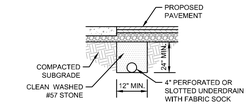
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3. 6" ODOT ITEM 304 AGGREGATE BASE
4. SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204, EARTHWORK SPECIFICATION 312000 AND SOILS REPORT

STANDARD DUTY CONCRETE PAVEMENT DETAIL (5/C100) N.T.S.

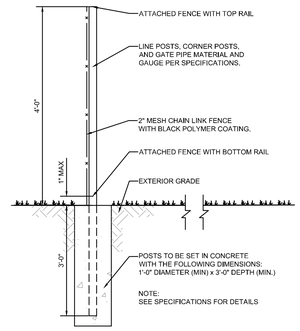


1. 1" ODOT ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE
2. ODOT ITEM 407 TACK COAT
3. 2" ODOT ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
4. EXISTING PAVEMENT SECTION
5. EXISTING SUBGRADE

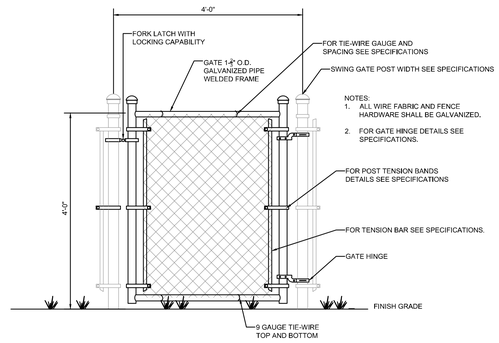
ASPHALT PAVEMENT PLANING AND OVERLAY DETAIL (6/C100) N.T.S.



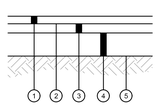
PAVEMENT UNDERDRAIN DETAIL (7/C100) N.T.S.



4' VINYL COATED CHAIN LINK FENCE (8/C100) N.T.S.

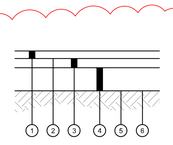


VINYL COATED 4' CHAIN LINK FENCE GATE DETAIL (9/C100) N.T.S.



1. 1 1/2" ODOT ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
2. ODOT ITEM 407 TACK COAT, PRIME IF TIME BETWEEN ASPHALT LIFTS EXCEEDS 30 DAYS
3. 2" ODOT ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
4. 8" ODOT ITEM 304 AGGREGATE BASE
5. SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204, EARTHWORK SPECIFICATION 312000 AND SOILS REPORT

STANDARD DUTY ASPHALT PAVEMENT DETAIL (1/C100) N.T.S.



1. 1 1/2" ODOT ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
2. ODOT ITEM 407 TACK COAT, APPLY IF TIME BETWEEN ASPHALT LIFTS EXCEEDS 30 DAYS
3. 4" ODOT ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
4. 8" ODOT ITEM 304 AGGREGATE BASE
5. WOVEN GEOTEXTILE FABRIC, ODOT ITEM 712.09 TYPE D
6. SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204, EARTHWORK SPECIFICATION 312000 AND SOILS REPORT

HEAVY DUTY ASPHALT PAVEMENT DETAIL (2/C100) N.T.S.

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GENERAL NOTES & DETAILS

DATE 5/25/23

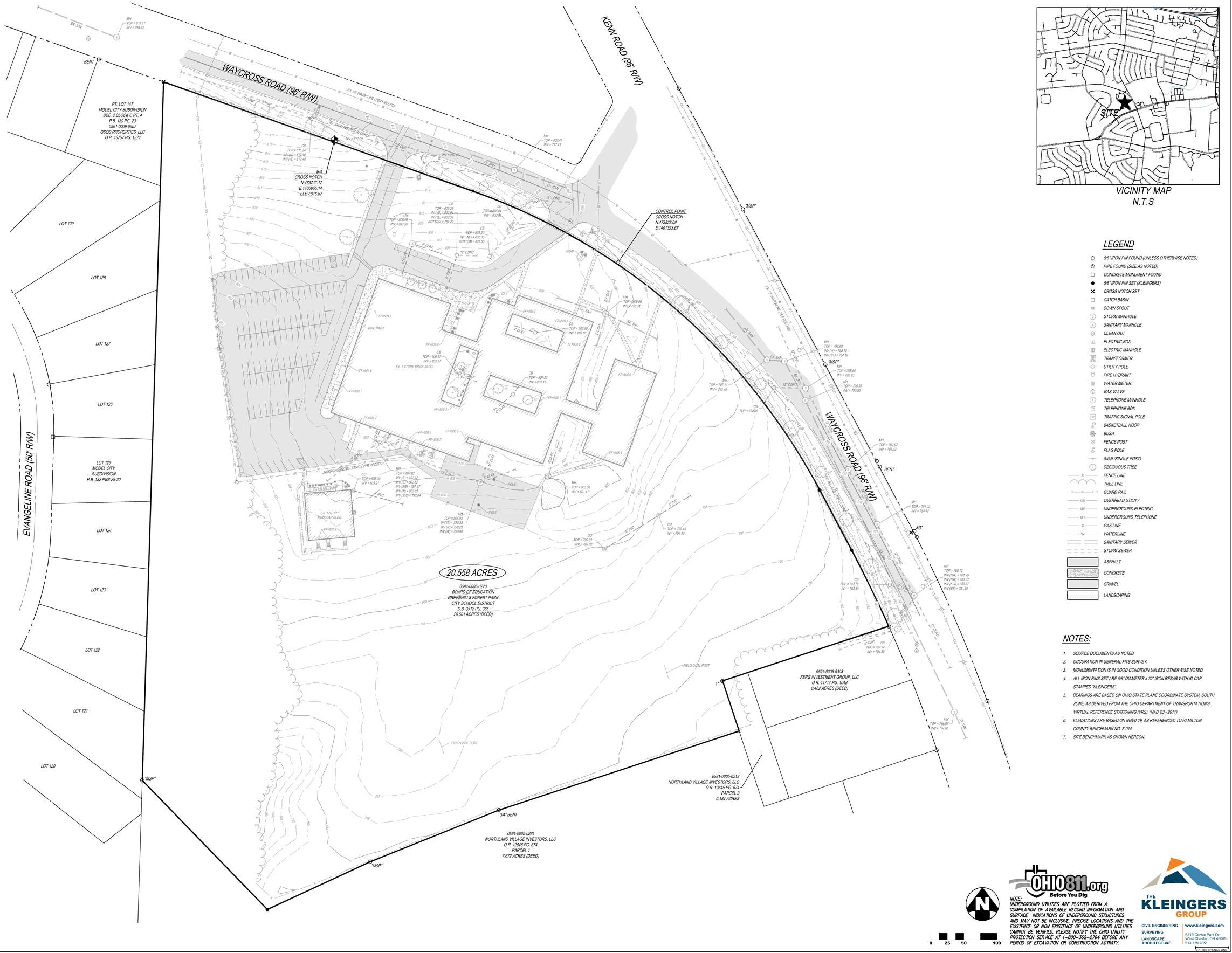
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XX:XX REFERENCE LINE



VICINITY MAP
N.T.S

LEGEND

- 5/8" IRON PIN FOUND (UNLESS OTHERWISE NOTED)
- PIPE FOUND (SIZE AS NOTED)
- CONCRETE MONUMENT FOUND
- 5/8" IRON PIN SET (KLEINGERS)
- CROSS NOTCH SET
- CATCH BASIN
- DOWN SPOUT
- STORM MANHOLE
- SANITARY MANHOLE
- CLEAN OUT
- ELECTRIC BOX
- ELECTRIC MANHOLE
- TRANSFORMER
- UTILITY POLE
- FIRE HYDRANT
- WATER METER
- GAS VALVE
- TELEPHONE MANHOLE
- TELEPHONE BOX
- TRAFFIC SIGNAL POLE
- BASKETBALL HOOP
- BUSH
- FENCE POST
- FLAG POLE
- SIGN (SINGLE POST)
- DECIDUOUS TREE
- FENCE LINE
- TREE LINE
- GUARD RAIL
- OVERHEAD UTILITY
- UNDERGROUND ELECTRIC
- UNDERGROUND TELEPHONE
- GAS LINE
- WATERLINE
- SANITARY SEWER
- STORM SEWER
- ASPHALT
- CONCRETE
- GRAVEL
- LANDSCAPING

NOTES:

1. SOURCE DOCUMENTS AS NOTED.
2. OCCUPATION IN GENERAL FITS SURVEY.
3. MONUMENTATION IS IN GOOD CONDITION UNLESS OTHERWISE NOTED.
4. ALL IRON PINS SET ARE 5/8" DIAMETER x 30" IRON REBAR WITH ID CAP STAMPED "KLEINGERS".
5. BEARINGS ARE BASED ON OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, AS DERIVED FROM THE OHIO DEPARTMENT OF TRANSPORTATION'S VIRTUAL REFERENCE STATIONING (VRS) (NAD '83 - 2011)
6. ELEVATIONS ARE BASED ON NGVD 29, AS REFERENCED TO HAMILTON COUNTY BENCHMARK NO. F-014.
7. SITE BENCHMARK AS SHOWN HEREON.

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NOTE:
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SURVEY
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0.1" REFERENCE LINE

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DEMOLITION PLAN LEGEND

- MILL 1-1/2" ASPHALT PAVEMENT PER DETAIL 4/C100
- 50% - FULL DEPTH ASPHALT PAVEMENT REMOVAL
  50% - 1" MILL ASPHALT PAVEMENT PER DETAIL 6/C100
- FULL DEPTH ASPHALT PAVEMENT REMOVAL
- PROPOSED SAWCUT

DEMOLITION PLAN CODED NOTES

1. REMOVE, PROTECT, AND REPLANT EXISTING PLANT.

DEMOLITION PLAN NOTES

1. CONTRACTOR TO PROTECT ALL EXISTING UTILITIES SHOWN ON THIS PLAN UNLESS EXPLICITLY NOTED OTHERWISE.
2. CONTRACTOR TO PROTECT ALL PLANTS AND TREES WITHIN COURTYARDS, UNLESS EXPLICITLY NOTED OTHERWISE.

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DEMOLITION PLAN

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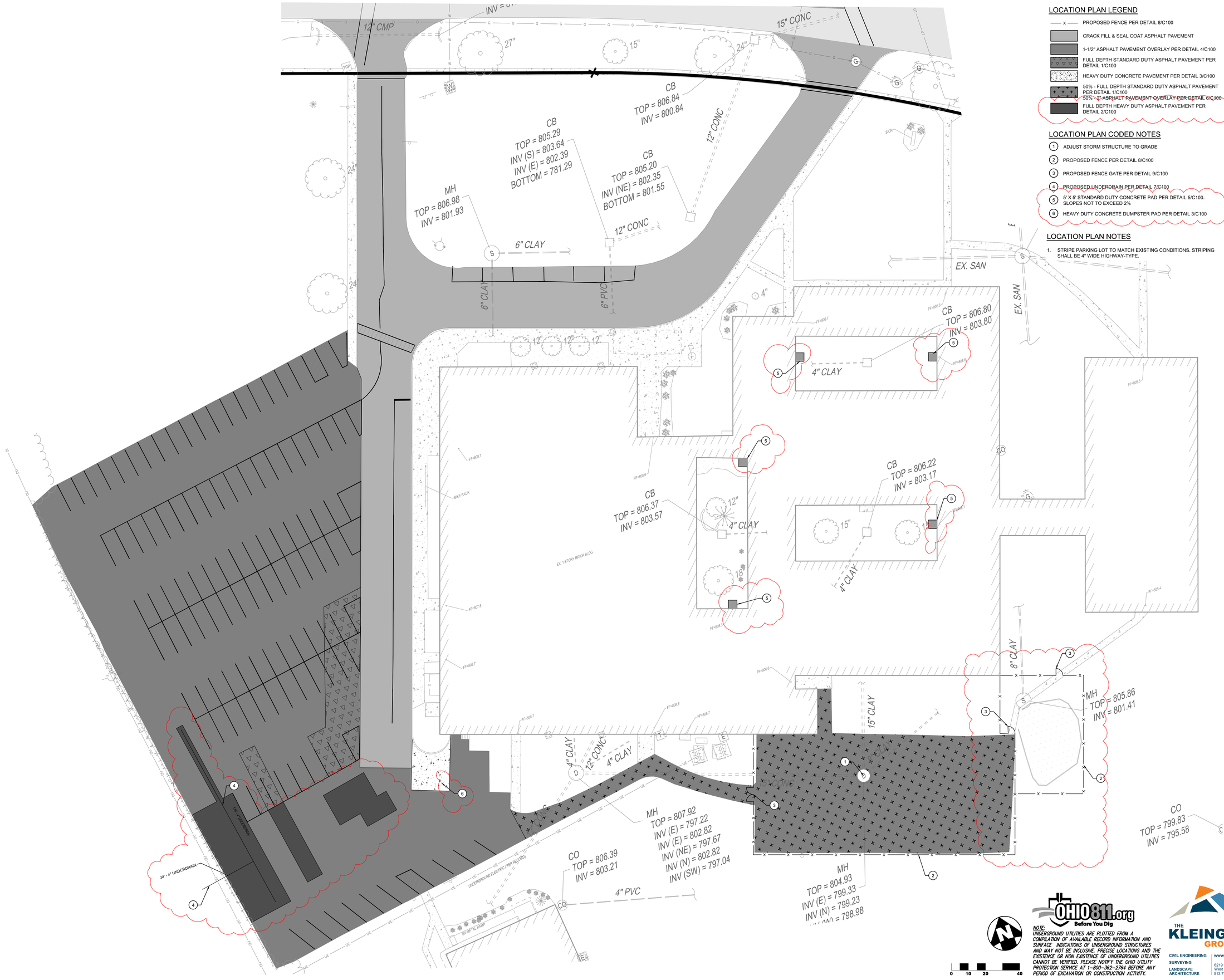
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LOCATION PLAN LEGEND

- PROPOSED FENCE PER DETAIL 8/C100
- CRACK FILL & SEAL COAT ASPHALT PAVEMENT
- 1-1/2" ASPHALT PAVEMENT OVERLAY PER DETAIL 4/C100
- FULL DEPTH STANDARD DUTY ASPHALT PAVEMENT PER DETAIL 1/C100
- HEAVY DUTY CONCRETE PAVEMENT PER DETAIL 3/C100
- 50% - FULL DEPTH STANDARD DUTY ASPHALT PAVEMENT PER DETAIL 1/C100
- 50% - 2" ASPHALT PAVEMENT OVERLAY PER DETAIL 8/C100
- FULL DEPTH HEAVY DUTY ASPHALT PAVEMENT PER DETAIL 2/C100

LOCATION PLAN CODED NOTES

1. ADJUST STORM STRUCTURE TO GRADE
2. PROPOSED FENCE PER DETAIL 8/C100
3. PROPOSED FENCE GATE PER DETAIL 9/C100
4. PROPOSED UNDERDRAIN PER DETAIL 7/C100
5. 5' X 5' STANDARD DUTY CONCRETE PAD PER DETAIL 5/C100. SLOPES NOT TO EXCEED 2%
6. HEAVY DUTY CONCRETE DUMPSTER PAD PER DETAIL 3/C100

LOCATION PLAN NOTES

1. STRIPE PARKING LOT TO MATCH EXISTING CONDITIONS. STRIPING SHALL BE 4" WIDE HIGHWAY-TYPE.

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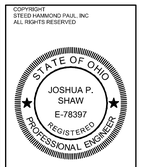
LOCATION PLAN

DATE 5/25/23

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GRADING LEGEND

- 1215 — EXISTING MAJOR CONTOUR
- 1216 — EXISTING MINOR CONTOUR
- 1215 — PROPOSED MAJOR CONTOUR
- 1216 — PROPOSED MINOR CONTOUR
- IP — INLET PROTECTION

NOTES

1. CONTRACTOR TO PROTECT ALL TREES AND PLANTS WITHIN COURTYARDS.

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825 WAYCROSS ROAD, SUITE A, CINCINNATI, OH 45240

ISSUANCES

04-28-23	BID / PERMIT
05-25-23	ADDENDUM 1

GRADING PLAN

DATE 5/25/23

COMM NO. 2021091.02

C140

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

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CIVIL ENGINEERING
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LANDSCAPE ARCHITECTURE
www.kleingers.com
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West Chester, OH 45069
513.779.7851

0 10 20 40
0"=1" REFERENCE LINE

DOOR AND FRAME SCHEDULE

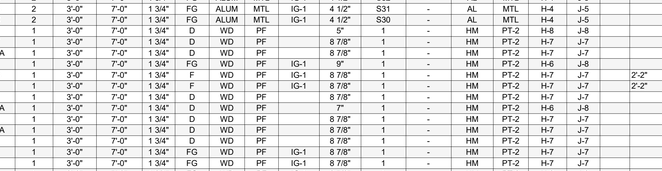
	DOOR								FRAME											
#	# OF LEAFS	WIDTH	HEIGHT	THK	TYPE	MATL	FINISH	GLASS	DEPTH	TYPE	E-FRAME	MATL	FINISH	HEAD	JAMB	SILL	SIDELITE WIDTH	RATING (MINUTES)	ACCESS CONTROL	HDWR SET	NOTES	DOOR #
100A	2	3'-0"	7'-0"	1 3/4"	FG	ALUM	MTL	IG-1	4 1/2"	S32	-	AL	MTL	H-4	J-5			-	●	AC-01		100A
100B	2	3'-0"	7'-0"	1 3/4"	FG	ALUM	MTL	IG-1	4 1/2"	S31	-	AL	MTL	H-4	J-5			-	●	AC-01		100B
100C	2	3'-0"	7'-0"	1 3/4"	FG	ALUM	MTL	IG-1	4 1/2"	S30	-	AL	MTL	H-4	J-5			-	●	AC-01		100C
101	1	3'-0"	7'-0"	1 3/4"	D	WD	PF		5"	1	-	HM	PT-2	H-8	J-8			-	-	E-01A		101
102T	1	3'-0"	7'-0"	1 3/4"	D	WD	PF		8 7/8"	1	-	HM	PT-2	H-7	J-7			-	-	E-02A		102T
102TA	1	3'-0"	7'-0"	1 3/4"	D	WD	PF		8 7/8"	1	-	HM	PT-2	H-7	J-7			-	-	E-02B		102TA
106	1	3'-0"	7'-0"	1 3/4"	FG	WD	PF	IG-1	9"	1	-	HM	PT-2	H-6	J-8			20	-	01		106
107B	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	8 7/8"	1	-	HM	PT-2	H-7	J-7		2'-2"	45	-	01		107B
108	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	8 7/8"	1	-	HM	PT-2	H-7	J-7		2'-2"	45	-	02		108
108T	1	3'-0"	7'-0"	1 3/4"	D	WD	PF		8 7/8"	1	-	HM	PT-2	H-7	J-7			-	-	E-02A		108T
108TA	1	3'-0"	7'-0"	1 3/4"	D	WD	PF		7"	1	-	HM	PT-2	H-6	J-8			-	-	E-02B		108TA
109T	1	3'-0"	7'-0"	1 3/4"	D	WD	PF		8 7/8"	1	-	HM	PT-2	H-7	J-7			-	-	E-02A		109T
109TA	1	3'-0"	7'-0"	1 3/4"	D	WD	PF		8 7/8"	1	-	HM	PT-2	H-7	J-7			-	-	E-02B		109TA
112T	1	3'-0"	7'-0"	1 3/4"	D	WD	PF		8 7/8"	1	-	HM	PT-2	H-7	J-7			-	-	03		112T
117	1	3'-0"	7'-0"	1 3/4"	FG	WD	PF	IG-1	8 7/8"	1	-	HM	PT-2	H-7	J-7			45	-	01		117
118	1	3'-0"	7'-0"	1 3/4"	FG	WD	PF	IG-1	8 7/8"	1	-	HM	PT-2	H-7	J-7			45	-	01		118
119	1	3'-0"	7'-0"	1 3/4"	FG	WD	PF	IG-1	8 7/8"	1	-	HM	PT-2	H-6	J-8			45	-	01		119
119T	1	3'-0"	7'-0"	1 3/4"	D	WD	PF		8 7/8"	1	-	HM	PT-2	H-7	J-7			-	-	03		119T
121T	1	3'-0"	7'-0"	1 3/4"	D	WD	PF		8 7/8"	1	-	HM	PT-2	H-7	J-7			-	-	03		121T
123T	1	3'-0"	7'-0"	1 3/4"	D	WD	PF		8 7/8"	1	-	HM	PT-2	H-7	J-7			-	-	03		123T
124	1	3'-0"	7'-0"	1 3/4"	FG	WD	PF	IG-1	9"	1	-	HM	PT-2	H-6	J8			20	-	01		124
125	1	3'-0"	7'-0"	1 3/4"	FG	WD	PF	IG-1	9"	1	-	HM	PT-2	H-6	J8			20	-	01		125
126	1	3'-0"	7'-0"	1 3/4"	D	WD	PF		5"	1	-	HM	PT-2	H-8	J-8			-	-	E-01B		126
130	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	8 5/8"	2	-	HM	PT-2	H-1	J-1		2'-2"	20	-	04		130
131	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	7"	2	-	HM	PT-2	-	-		2'-2"	20	-	04	EXISTING FRAME TO REMAIN	131
132	1	3'-0"	7'-0"	1 3/4"	FG	WD	PF	IG-1	8 7/8"	1	-	HM	PT-2	H-7	J-7			45	-	01		132
133	1	3'-0"	7'-0"	1 3/4"	FG	WD	PF	IG-1	8 7/8"	1	-	HM	PT-2	H-7	J-7			45	-	01		133
134	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	8 5/8"	2	-	HM	PT-2	H-1	J-1		2'-2"	45	-	04		134
135	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	7"	2	-	HM	PT-2	-	-		2'-2"	20	-	04	EXISTING FRAME TO REMAIN	135
136	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	7"	2	-	HM	PT-2	-	-		2'-2"	20	-	04	EXISTING FRAME TO REMAIN	136
137	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	7"	2	-	HM	PT-2	-	-		2'-2"	20	-	04	EXISTING FRAME TO REMAIN	137
138	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	8 5/8"	2	-	HM	PT-2	H-1	J-1		2'-2"	20	-	04		138
138A	1	3'-0"	7'-0"	1 3/4"	N	WD	PF		8 7/8"	1	-	HM	PT-2	H-7	J-7			-	-	05		138A
139	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	7"	2	-	HM	PT-2	-	-		2'-2"	20	-	04	EXISTING FRAME TO REMAIN	139
141	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	-	9"	1	EFR	HM	PT-2	H-6	J-8			20	●	AC-02		141
142	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	6 5/8"	2	-	HM	PT-2	H-1	J-1		2'-2"	45	-	01		142
143A	1	3'-0"	7'-0"	1 3/4"	FG	WD	PF	IG-1	8 7/8"	1	-	HM	PT-2	H-7	J-7			-	-	13		143A
143B	1	3'-0"	7'-0"	1 3/4"	FG	WD	PF	IG-1	8 7/8"	1	-	HM	PT-2	H-7	J-7			-	-	13		143B
152	1	3'-0"	7'-0"	1 3/4"	FG	WD	PF	IG-1	8 7/8"	1	-	HM	PT-2	H-6	J-8			20	-	13		152
160	1	3'-0"	6'-11 1/8"	1 3/4"					4 1/2"	-		ALUM	MTL	-	-			20	-	AC-03	EXISTING FRAME TO REMAIN	160
161	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	-	5"	2	-	HM	PT-2	-	-			20	-	04	EXISTING FRAME TO REMAIN	161
171T	0	3'-0"	7'-0"	0"	-	-	-	-	1'-0 7/8"	HM	-	HM	PT-2	H-6	J-8			20	-	-		171T
172	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	-	1'-1"	2	-	HM	PT-2	H-6	J-8			20	-	01		172
172T	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	-	7"	2	-	HM	PT-2	H-6	J-8			-	-	03		172T
173	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	-	8 7/8"	2	-	HM	PT-2	H-7	J-7			-	-	07		173
174	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	-	8 7/8"	2	-	HM	PT-2	H-7	J-7			-	-	08		174
175T	0	3'-0"	7'-0"	0"	-	-	-	-	6 7/8"	HM	-	HM	PT-2	H-6	J-8			20	-	-		175T
176	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	-	9"	2	-	HM	PT-2	H-6	J-8			20	-	01		176
177	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	-	7"	2	-	HM	PT-2	H-6	J-8			20	-	09		177
178	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	-	7"	2	-	HM	PT-2	H-6	J-8			20	-	09		178
180	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	8 7/8"	1	-	HM	PT-2	H-7	J-7		2'-2"	45	-	01		180
181	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	8 7/8"	1	-	HM	PT-2	H-7	J-7		2'-2"	45	-	01		181
182	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	IG-1	8 7/8"	1	-	HM	PT-2	H-7	J-7		2'-2"	45	-	01		182
187	1	3'-0"	7'-0"	1 3/4"	F	HM	PT-2	-	8 1/4"	1	-	HM	PT-2	H-6	J-8			-	-	10		187
188A	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	-	1'-1"	3	-	HM	PT-2	H-8	J-8			-	-	11		188A
188B	1	10'-0"	9'-4"	2"	OCD	STL	MTL	-	2"	11	-	STL	MTL	H-14	J-14			-	-	RU		188B
188C	1	3'-0"	7'-0"	1 3/4"	F	WD	PF	-	1'-1"	3	-	HM	PT-2	H-8	J-8			-	-	11		188C
191	1	3'-0"	7'-0"	1 3/4"	F	HM	PT-2	-	7"	1	-	HM	PT-2	H-6	J-8			-	-	12		191
200A	2	3'-0"	7'-0"	1 3/4"	FG	ALUM	MTL	IG-1	4 1/2"	S28	-	AL	MTL	H-4	J-5			-	●	AC-01		200A
201C	2	3'-0"	7'-0"	1 3/4"	FG	ALUM	MTL	IG-1	4 1/2"	S33	-	AL	MTL	H-4	J-5			-	●	AC-01		201C

OPERABLE PANEL PARTITION SCHEDULE

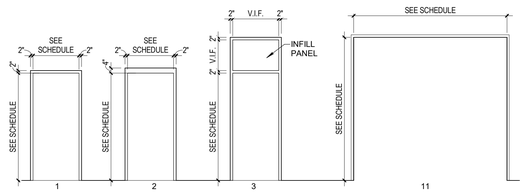
MARK	LENGTH	CEILING HEIGHT	TYPE	COMMENTS

OPENING SCHEDULE ABBREVIATIONS

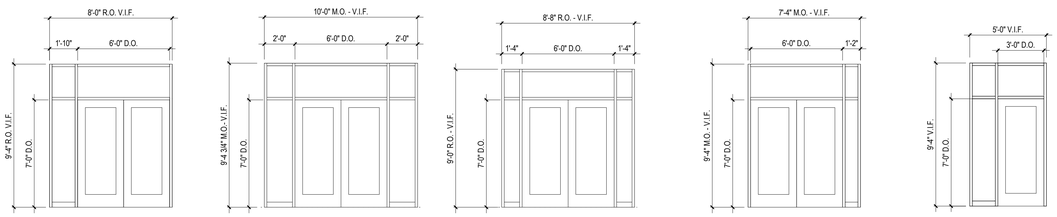
AL	ALUMINUM
HM	HOLLOW METAL
PF	PREFINISHED
PT	PAINT
SS	STAINLESS STEEL
STL	STEEL
WD	WOOD



DOOR TYPES



FRAME TYPES



STOREFRONT TYPES

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STATE OF OHIO
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2118434
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Expiration Date 12/31/2023

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Columbus, Ohio 43201
614.223.2264
312 Plum Street, Ste 700
Cincinnati, Ohio 45202
513.381.2112

WINTON WOODS CITY SCHOOLS
EARLY CHILDOOD RENOVATION
825 WAYCROSS ROAD, CINCINNATI, OH 45240

WINTON WOODS CITY SCHOOLS
825 WAYCROSS ROAD, SUITE A, CINCINNATI, OH 45240

ISSUANCES

	04-28-23	BID / PERMIT
1	05-25-23	ADDENDUM 1

OPENING SCHEDULE

DATE 4/28/23

COMM NO. 2021091.02

A010

"2-1" REFERENCE LINE"

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EMMA K. PEVOAR 2118434
REGISTERED ARCHITECT

EMMA K. PEVOAR, Lic# 2118434
Expiration Date 12/31/2023

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EARLY CHILDHOOD RENOVATION
825 WAYCROSS ROAD, CINCINNATI, OH 45240

WINTON WOODS CITY SCHOOLS
825 WAYCROSS ROAD, SUITE A, CINCINNATI, OH 45240

PARTITION WALL LEGEND

PARTITION TAG. LOCATION OF TAG DELINEATES THE SIDE WITH MULTIPLE LAYERS OF GYP. (WHERE APPLICABLE) — S1

*PLEASE SEE SHEET A040 FOR STANDARD PARTITION TYPES

FLOOR PLAN LEGEND

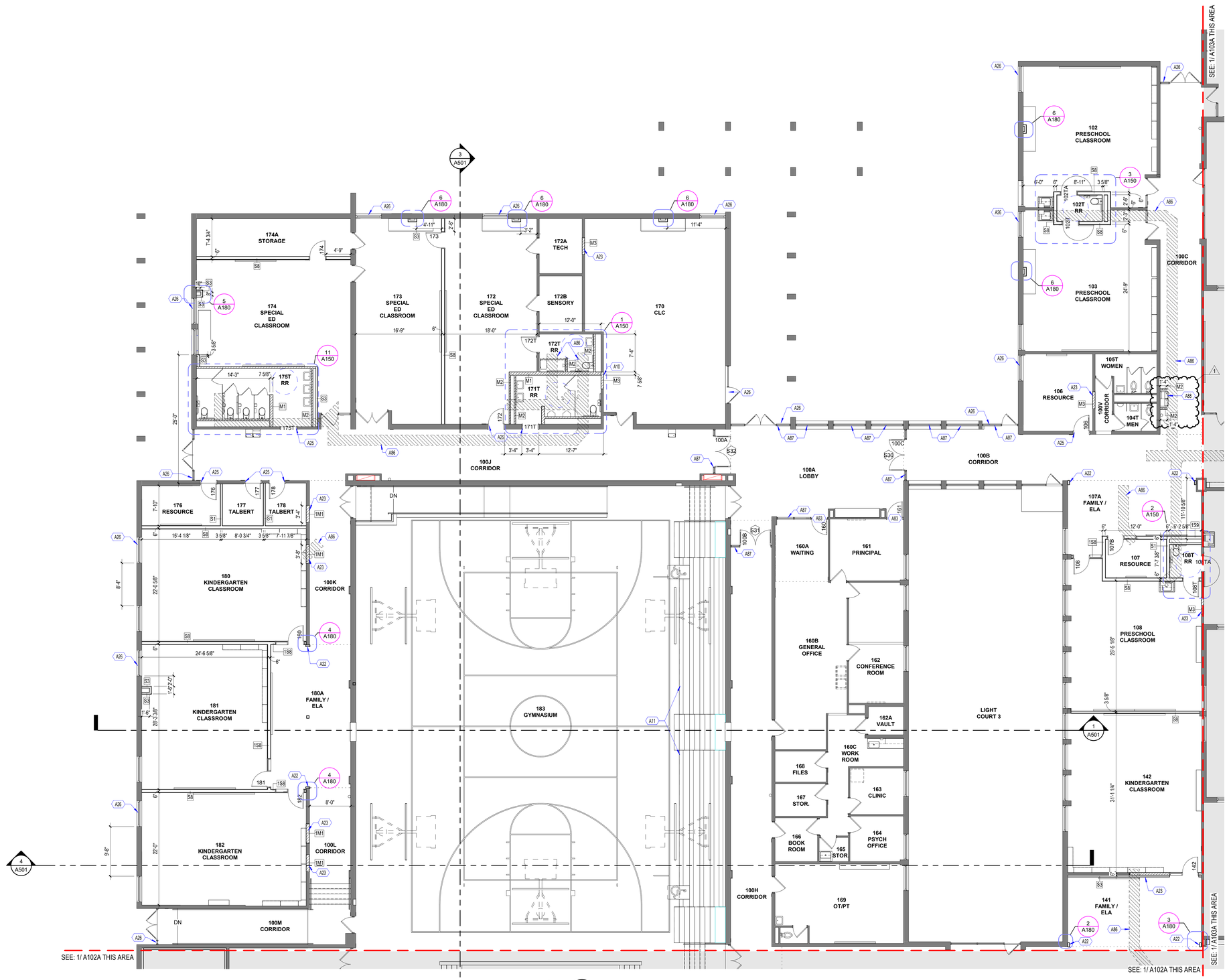
- NO WORK THIS AREA
- EXISTING WALL/PARTITION TO REMAIN
- NEW WALL/PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- NEW DOOR

GENERAL NOTES - FLOOR PLAN

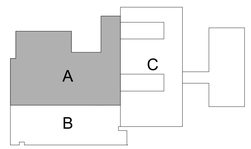
A. ALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF STUD, OR FACE OF EXISTING FINISH UNLESS NOTED OTHERWISE.
B. FIRESTOP ALL PENETRATIONS THRU NEW AND EXISTING CORRIDOR WALLS
C. WHERE EXISTING WINDOWS ARE INDICATED TO BE REMOVED AND REPLACED, WIRE BRUSH LOOSE PAINT AND RUST FROM STEEL LINTELS, PRIME, AND PAINT
D. EVALUATE EXISTING ROOF DECK AND IN AREAS OF DISREPAIR, PATCH ROOF DECK AS PART OF ALLOWANCE #1
E. AT EXISTING SURFACES, REMOVE CAULK BETWEEN JOINTS OF SIMILAR AND DISSIMILAR MATERIALS AND RECAULK PROIR TO PAINTING

KEY NOTES - FLOOR PLANS

A10 INFILL OPENING WITH CMU EQUAL WIDTH OF WALL
A11 ALTERNATE #7. PROVIDE NEW BLEACHERS
A22 LOCATION OF SQUEEZE CHANNEL TOOTH IN MASONRY WITH SAME MATERIAL, COLOR, AND TEXTURE TO MATCH ADJACENT EXISTING CONDITION. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.
A23 TOOTH IN MASONRY WITH SAME MATERIAL, COLOR, AND TEXTURE. ALIGN WITH EXISTING ADJACENT FINISHES.
A25 NEW OPENING AND LINTEL. SEE STRUCTURAL DRAWINGS FOR LINTEL INFORMATION
A26 OPENING TO RECEIVE VINYL CUT NUMBER. SEE DETAIL ON SHEET A000 FOR MORE INFORMATION
A83 ALTERNATE #1. REPLACE EXISTING DOOR AND HARDWARE. DOOR FRAME TO REMAIN
A86 TOOTH IN MASONRY WALLS AND PATCH FLOORS WHERE UNDERGROUND PLUMBING WORK HAS OCCURED, MATCH WITH SAME MATERIAL, COLOR, AND TEXTURE TO MATCH ADJACENT EXISTING CONDITION. SEE PLUMBING DRAWINGS FOR ALL LOCATIONS.
A87 ALTERNATE #8. PROVIDE BULLET RESISTANT FILM ON ALL GLAZING THIS OPENING
A88 PROVIDE NEW WATER COOLER. TOOTH IN MASONRY WALL AS REQUIRED FOR INSTALLATION OF NEW COOLER. MATCH TEXTURE, COLOR, AND TEXTURE.



1 A101A FIRST FLOOR PLAN - AREA A
1/8" = 1'-0"



KEY PLAN
NTS

ISSUANCES

	04-28-23	BID / PERMIT
1	05-25-23	ADDENDUM 1

FIRST FLOOR PLAN - AREA A

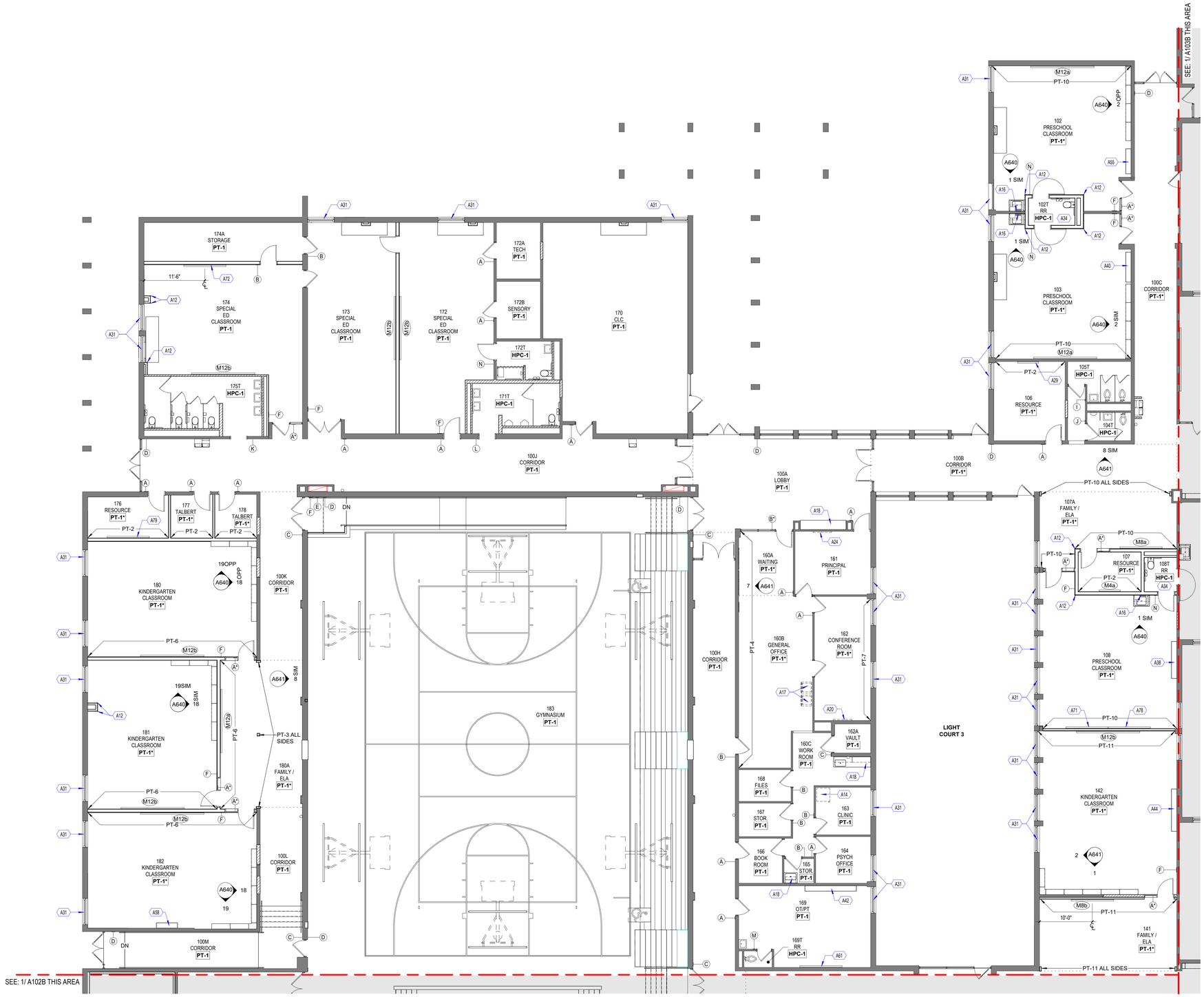
DATE 4/28/23

COMM NO. 2021091.02

A101A

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0'-1" REFERENCE LINE



1 A101B FIRST FLOOR PLAN INTERIOR - AREA A
1/8" = 1'-0"

SIGNAGE LEGEND

SEE SHEET A000 FOR SIGNAGE SCHEDULE

WALL PAINT FINISH LEGEND

ROOM NUMBER — 101
PAINT FINISH — PT-1*
ASTERISK INDICATES ACCENT PAINT WITHIN ROOM - SEE PLAN FOR LOCATION

GENERAL NOTES - PAINTING

A. PAINT CONTRACTOR TO HAVE PRE-PAINT WALKTHROUGH WITH DESIGNER PRIOR TO PAINTING.
B. ROOMS WHERE THE PAINT FINISH IS LISTED AS "--" SHOULD NOT BE PAINTED.
C. DO NOT PAINT EXISTING BRICK UNLESS NOTED OTHERWISE.
D. SEE REFLECTED CEILING PLANS FOR CEILING, SOFFIT, AND STRUCTURE PAINT COLORS.
E. ALL INTERIOR, EXPOSED COLUMNS TO BE PAINTED PT-1 UNLESS NOTED OTHERWISE.
F. PAINT WINDOW JAMBS TO MATCH ADJACENT WALL COLOR - WRAP ACCENT PAINT.
G. PAINT RETURN AIR WALL GRILLES TO MATCH ADJACENT WALL COLOR.
H. PAINT TRANSITION SHALL ALWAYS OCCUR AT AN INSIDE CORNER UNLESS NOTED OTHERWISE.
I. HIGH PERFORMANCE COATING COLORS MATCH PT COLORS. PT-1 AND HPC-1 ARE THE SAME COLOR.
J. ALL EXISTING DOOR FRAMES AND EXISTING HOLLOW METAL DOORS TO BE PAINTED PT-2.

GENERAL NOTES - DISPLAY BOARDS

A. SEE PLANS FOR BOARD LOCATIONS/DIMENSIONS - IF A BOARD IS NOT DIMENSIONED IT SHOULD BE CENTERED ON THE WALL.
B. DO NOT INSTALL DISPLAY BOARDS IN PRIVATE OFFICES UNTIL AFTER FURNITURE INSTALLATION.

FINISH LISTING - PAINT

PT-1	TO MATCH SHERWIN WILLIAMS SNOWBOUND (SW7004)
PT-2	TO MATCH SHERWIN WILLIAMS TIN LIZZIE (SW9163)
PT-3	TO MATCH SHERWIN WILLIAMS GRIZZLE GRAY (SW7068)
PT-4	TO MATCH PPG PAINTS LEAP FROG (PPG1225-7)
PT-5	TO MATCH PPG PAINTS SUDDENLY SAPPHIRE (PPG1242-7)
PT-6	TO MATCH PPG PAINTS BE SPONTANEOUS (PPG1221-6)
PT-7	TO MATCH PPG PAINTS KING TRITON (PPG1242-5)
PT-8	TO MATCH PPG PAINTS OVERCAST (PPG1242-4)
PT-9	TO MATCH SHERWIN WILLIAMS OVERJOY (SW6689)
PT-10	TO MATCH SHERWIN WILLIAMS QUITE CORAL (SW6614)
PT-11	TO MATCH PPG PAINTS CROWNING GLORY (PPG17-07)
PT-12	TO MATCH PPG PAINTS FALL LEAF (PPG1197-6)

KEY NOTES - FLOOR PLANS

A12 4'-0" H CORNER GUARD - BOTTOM TO BE MOUNTED AT 4" AFF
A14 REFRIGERATOR WITH ICE MAKER - OWNER PROVIDED
A16 HIGH-IMPACT WALLCOVERING (WALL PROTECTION) FROM TOP OF BACKSPLASH TO BOTTOM OF WALL CABINET ABOVE (UNLESS SHOWN OTHERWISE IN ELEVATION) - WHEN SINK IS INSTALLED IN A CORNER WALLCOVERING TO RETURN ON ADJACENT WALL FULL DEPTH OF ENDSPLASH
A17 COPIER - OWNER PROVIDED
A18 EXISTING CASEWORK TO REMAIN
A20 WALL-MOUNTED MONITOR - SEE TECHNOLOGY AND ELECTRICAL DRAWINGS
A24 EXISTING WALL-MOUNTED MONITOR TO REMAIN
A29 EXISTING DISPLAY BOARD FROM SAME ROOM TO BE REINSTALLED IN SAME LOCATION AFTER PAINTING WORK IS COMPLETE
A31 ALTERNATE #5A: MANUAL ROLLER WINDOW SHADE
A34 WALL TILE TO BE INSTALLED ALL WALLS THIS ROOM - SEE DETAIL 13/A641. INSTALL OUTSIDE CORNER TRIM AT NECESSARY CORNERS.
A38 EXISTING SHELVING UNIT ES-4 TO BE PAINTED AND REINSTALLED THIS WALL AFTER PAINTING WORK IN ROOM IS COMPLETE
A40 EXISTING SHELVING UNIT ES-4 TO BE PAINTED AND REINSTALLED THIS WALL AFTER PAINTING WORK IN ROOM IS COMPLETE
A42 EXISTING SHELVING UNITS FROM SAME ROOM TO BE REINSTALLED IN SAME LOCATION AFTER PAINTING WORK IS COMPLETE
A44 EXISTING SHELVING UNIT ES-6B TO BE PAINTED AND REINSTALLED THIS WALL AFTER PAINTING WORK IN ROOM IS COMPLETE
A55 EXISTING SHELVING UNIT ES-13B TO BE PAINTED AND REINSTALLED THIS WALL AFTER PAINTING WORK IN ROOM IS COMPLETE
A58 EXISTING SHELVING UNIT ES-15 TO BE PAINTED AND REINSTALLED THIS WALL AFTER PAINTING WORK IN ROOM IS COMPLETE
A61 EXISTING DISPLAY BOARD (EM-2) TO BE REINSTALLED THIS WALL AFTER PAINTING WORK IS COMPLETE
A71 EXISTING DISPLAY BOARD (EM-11) TO BE REINSTALLED THIS WALL AFTER PAINTING WORK IS COMPLETE
A72 EXISTING DISPLAY BOARD (EM-12) TO BE REINSTALLED THIS WALL AFTER PAINTING WORK IS COMPLETE
A78 EXISTING DISPLAY BOARD (EM-16) TO BE REINSTALLED THIS WALL AFTER PAINTING WORK IS COMPLETE
A79 EXISTING DISPLAY BOARD (EM-17) TO BE REINSTALLED THIS WALL AFTER PAINTING WORK IS COMPLETE

KEY PLAN
NTS

"0-1" REFERENCE LINE

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ISSUANCES

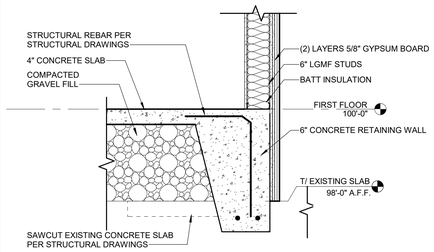
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FIRST FLOOR PLAN INTERIOR - AREA A

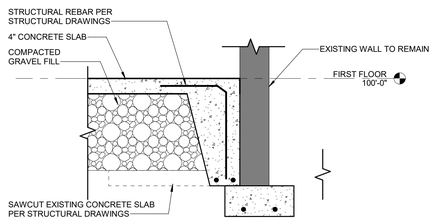
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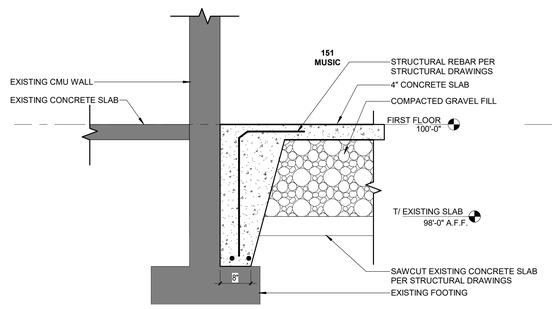
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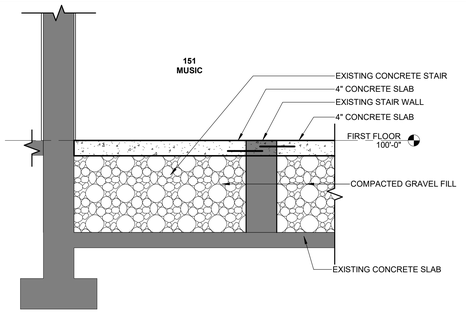
2 A102A MUSIC ROOM EAST WALL SECTION
3/4" = 1'-0"



3 A102A SECTION
3/4" = 1'-0"



4 A102A MUSIC ROOM NORTH WALL SECTION
3/4" = 1'-0"



5 A102A MUSIC ROOM WEST WALL
3/4" = 1'-0"

GENERAL NOTES - FLOOR PLAN

A. ALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF STUD, OR FACE OF EXISTING FINISH UNLESS NOTED OTHERWISE.
B. FIRESTOP ALL PENETRATIONS THRU NEW AND EXISTING CORRIDOR WALLS
C. WHERE EXISTING WINDOWS ARE INDICATED TO BE REMOVED AND REPLACED, WIRE BRUSH LOOSE PAINT AND RUST FROM STEEL LINTELS, PRIME, AND PAINT
D. EVALUATE EXISTING ROOF DECK AND IN AREAS OF DISREPAIR, PATCH ROOF DECK AS PART OF ALLOWANCE #1
E. AT EXISTING SURFACES, REMOVE CAULK BETWEEN JOINTS OF SIMILAR AND DISSIMILAR MATERIALS AND RECAULK PROIR TO PAINTING

KEY NOTES - FLOOR PLANS

A23 TOOTH IN MASONRY WITH SAME MATERIAL, COLOR, AND TEXTURE. ALIGN WITH EXISTING ADJACENT FINISHES.
A26 OPENING TO RECEIVE VINYL CUT NUMBER. SEE DETAIL ON SHEET A000 FOR MORE INFORMATION
A82 ALIGN STUD WALL WITH EXISTING CMU WALL. (2) LAYERS GYPSUM BOARD TO EXTEND TO EXTERIOR WALL ATTACHED TO FACE OF CMU
A85 EXTEND RAMP CURB, MATCH EXISTING RAMP CURB IN MATERIAL, TEXTURE, AND COLOR
A86 TOOTH IN MASONRY WALLS AND PATCH FLOORS WHERE UNDERGROUND PLUMBING WORK HAS OCCURED, MATCH WITH SAME MATERIAL, COLOR, AND TEXTURE TO MATCH ADJACENT EXISTING CONDITION. SEE PLUMBING DRAWINGS FOR ALL LOCATIONS.
A89 FLOOR IN THIS ROOM TO BE RAISED TO MATCH FLOOR LEVEL OF 100H. SEE DETAILS ON SHEET A102A AND STRUCTURAL FOR MORE INFORMATION.

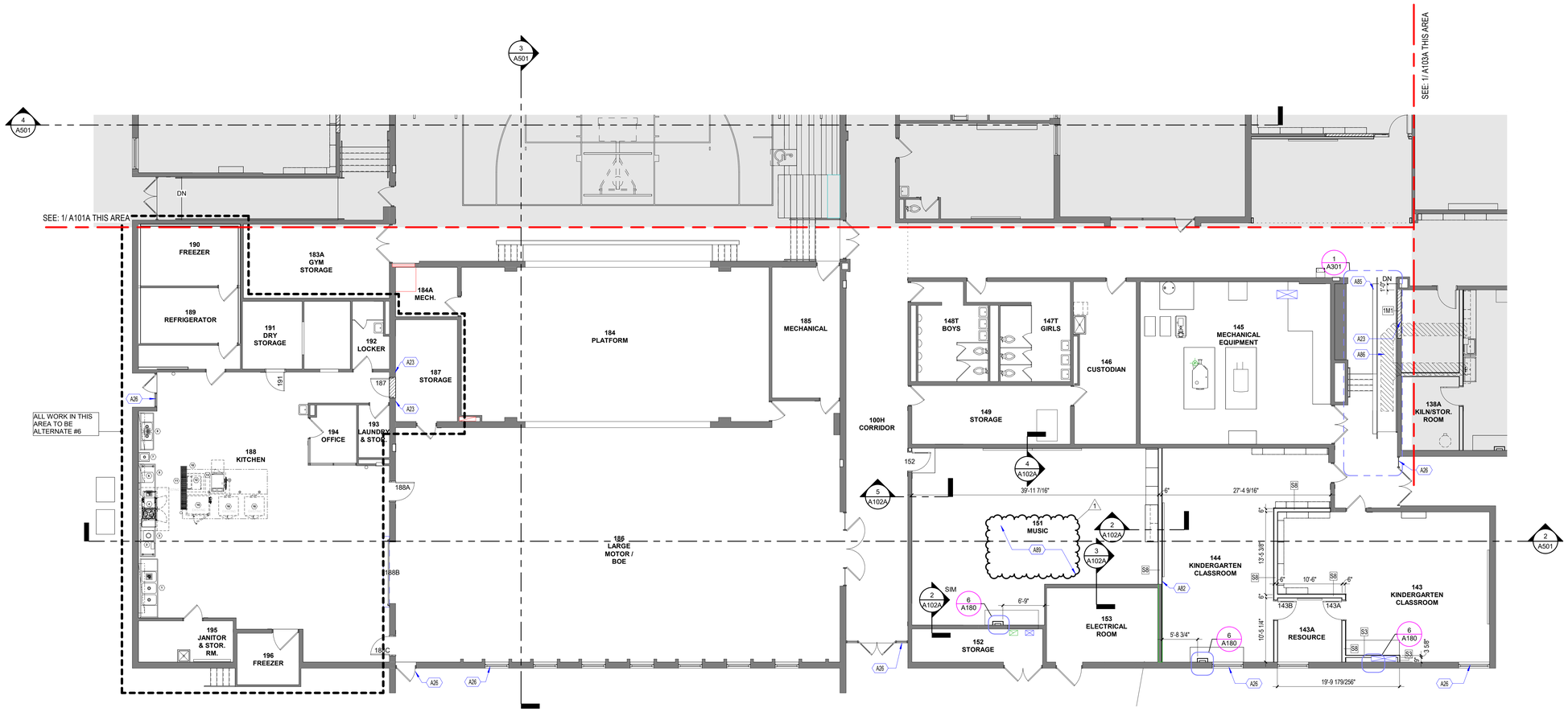
FLOOR PLAN LEGEND

- NO WORK THIS AREA
- EXISTING WALL/PARTITION TO REMAIN
- NEW WALL/PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- NEW DOOR

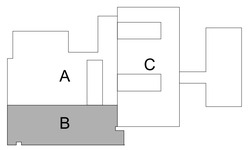
PARTITION WALL LEGEND

PARTITION TAG. LOCATION OF TAG DELINEATES THE SIDE WITH MULTIPLE LAYERS OF GYP. (WHERE APPLICABLE) — S1

*PLEASE SEE SHEET A040 FOR STANDARD PARTITION TYPES



N 1 A102A FIRST FLOOR PLAN - AREA B
1/8" = 1'-0"



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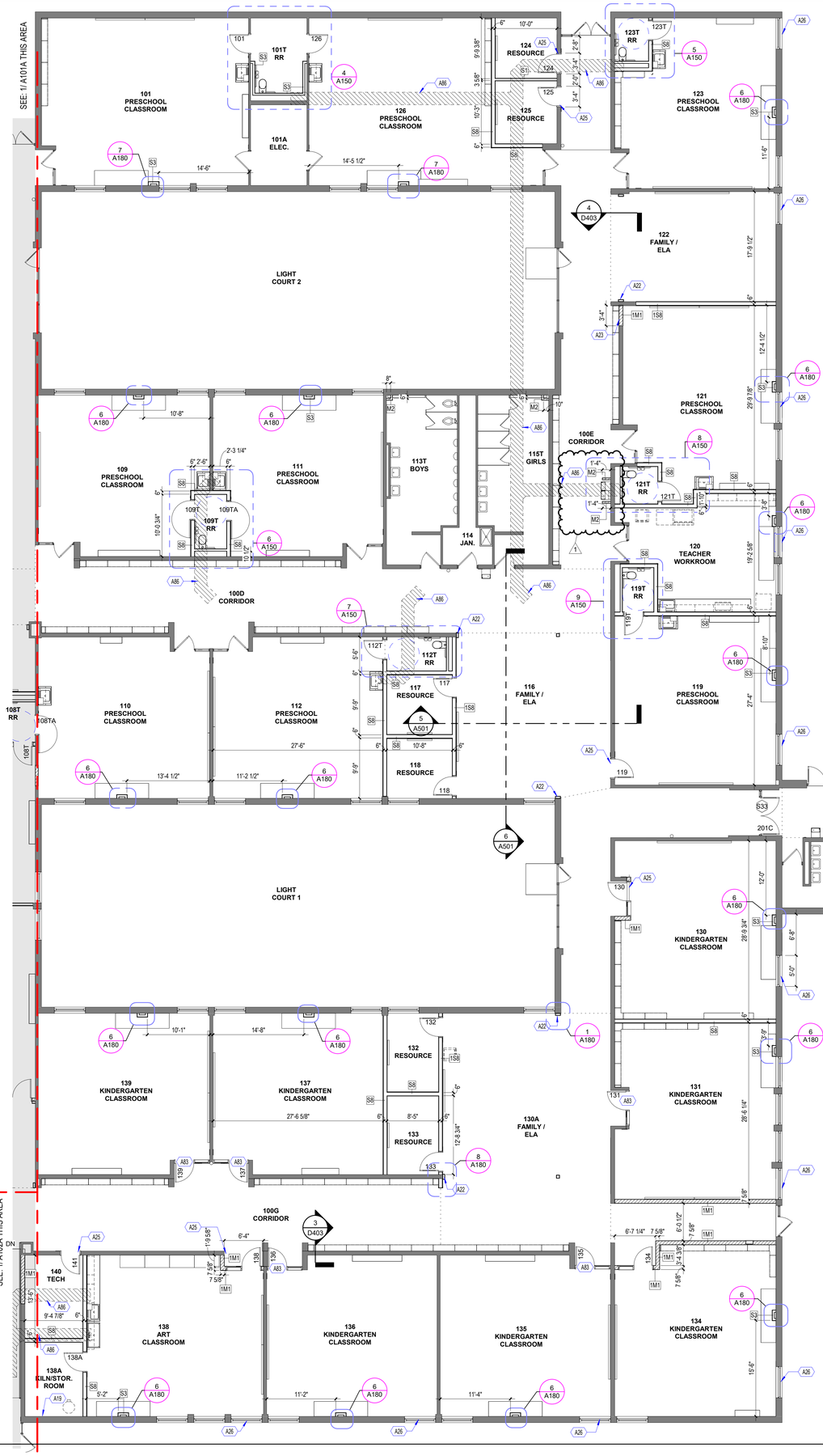
FIRST FLOOR PLAN - AREA B

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0'-1" REFERENCE LINE



1 A103A FIRST FLOOR PLAN - AREA C
1/8" = 1'-0"

PARTITION WALL LEGEND

PARTITION TAG. LOCATION OF TAG DELINEATES THE SIDE WITH MULTIPLE LAYERS OF GYP. (WHERE APPLICABLE) — S1

*PLEASE SEE SHEET A040 FOR STANDARD PARTITION TYPES

FLOOR PLAN LEGEND

- NO WORK THIS AREA
- EXISTING WALL/PARTITION TO REMAIN
- NEW WALL/PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- NEW DOOR

GENERAL NOTES - FLOOR PLAN

A. ALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF STUD, OR FACE OF EXISTING FINISH UNLESS NOTED OTHERWISE.
B. FIRESTOP ALL PENETRATIONS THRU NEW AND EXISTING CORRIDOR WALLS
C. WHERE EXISTING WINDOWS ARE INDICATED TO BE REMOVED AND REPLACED, WIRE BRUSH LOOSE PAINT AND RUST FROM STEEL LINTELS, PRIME, AND PAINT
D. EVALUATE EXISTING ROOF DECK AND IN AREAS OF DISREPAIR, PATCH ROOF DECK AS PART OF ALLOWANCE #1
E. AT EXISTING SURFACES, REMOVE CAULK BETWEEN JOINTS OF SIMILAR AND DISSIMILAR MATERIALS AND RECAULK PROIR TO PAINTING

KEY NOTES - FLOOR PLANS

A19 LOCATE AND REINSTALL EXISTING KILN.
A22 LOCATION OF SQUEEZE CHANNEL. TOOTH IN MASONRY WITH SAME MATERIAL, COLOR, AND TEXTURE TO MATCH ADJACENT EXISTING CONDITION. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.
A23 TOOTH IN MASONRY WITH SAME MATERIAL, COLOR, AND TEXTURE. ALIGN WITH EXISTING ADJACENT FINISHES.
A25 NEW OPENING AND LINTEL. SEE STRUCTURAL DRAWINGS FOR LINTEL INFORMATION
A26 OPENING TO RECEIVE VINYL CUT NUMBER. SEE DETAIL ON SHEET A000 FOR MORE INFORMATION
A83 ALTERNATE #1. REPLACE EXISTING DOOR AND HARDWARE. DOOR FRAME TO REMAIN
A86 TOOTH IN MASONRY WALLS AND PATCH FLOORS WHERE UNDERGROUND PLUMBING WORK HAS OCCURED, MATCH WITH SAME MATERIAL, COLOR, AND TEXTURE TO MATCH ADJACENT EXISTING CONDITION. SEE PLUMBING DRAWINGS FOR ALL LOCATIONS.



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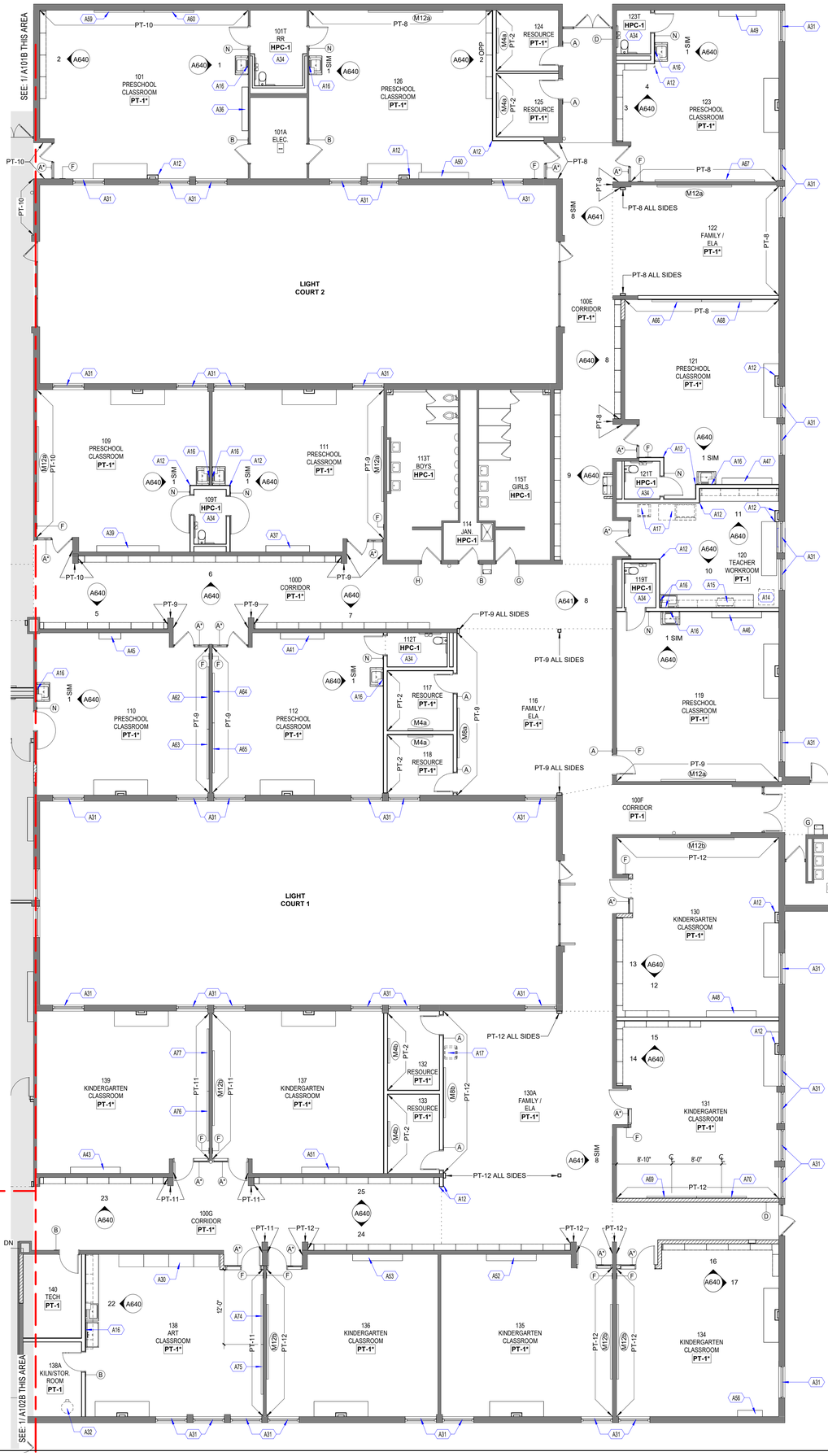
FIRST FLOOR PLAN - AREA C

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FINISH LISTING - PAINT

PT-1	TO MATCH SHERWIN WILLIAMS SNOWBOUND (SW7004)
PT-2	TO MATCH SHERWIN WILLIAMS TIN LIZZIE (SW9163)
PT-3	TO MATCH SHERWIN WILLIAMS GRIZZLE GRAY (SW7068)
PT-4	TO MATCH PPG PAINTS LEAP FROG (PPG1225-7)
PT-5	TO MATCH PPG PAINTS SUDDENLY SAPPHIRE (PPG1242-7)
PT-6	TO MATCH PPG PAINTS BE SPONTANEOUS (PPG1221-6)
PT-7	TO MATCH PPG PAINTS KING TRITON (PPG1242-5)
PT-8	TO MATCH PPG PAINTS OVERCAST (PPG1242-4)
PT-9	TO MATCH SHERWIN WILLIAMS OVERJOY (SW6689)
PT-10	TO MATCH SHERWIN WILLIAMS QUITE CORAL (SW6614)
PT-11	TO MATCH PPG PAINTS CROWNING GLORY (PPG17-07)
PT-12	TO MATCH PPG PAINTS FALL LEAF (PPG1197-6)

SIGNAGE LEGEND

SEE SHEET A000 FOR SIGNAGE SCHEDULE

WALL PAINT FINISH LEGEND

ROOM NUMBER — 101
PAINT FINISH — PT-1*
ASTERISK INDICATES ACCENT PAINT WITHIN ROOM - SEE PLAN FOR LOCATION

GENERAL NOTES - PAINTING

A. PAINT CONTRACTOR TO HAVE PRE-PAINT WALKTHROUGH WITH DESIGNER PRIOR TO PAINTING.
B. ROOMS WHERE THE PAINT FINISH IS LISTED AS "--" SHOULD NOT BE PAINTED.
C. DO NOT PAINT EXISTING BRICK UNLESS NOTED OTHERWISE.
D. SEE REFLECTED CEILING PLANS FOR CEILING, SOFFIT, AND STRUCTURE PAINT COLORS.
E. ALL INTERIOR, EXPOSED COLUMNS TO BE PAINTED PT-1 UNLESS NOTED OTHERWISE.
F. PAINT WINDOW JAMBS TO MATCH ADJACENT WALL COLOR - WRAP ACCENT PAINT.
G. PAINT RETURN AIR WALL GRILLES TO MATCH ADJACENT WALL COLOR.
H. PAINT TRANSITION SHALL ALWAYS OCCUR AT AN INSIDE CORNER UNLESS NOTED OTHERWISE.
I. HIGH PERFORMANCE COATING COLORS MATCH PT COLORS. PT-1 AND HPC-1 ARE THE SAME COLOR.
J. ALL EXISTING DOOR FRAMES AND EXISTING HOLLOW METAL DOORS TO BE PAINTED PT-2.

GENERAL NOTES - DISPLAY BOARDS

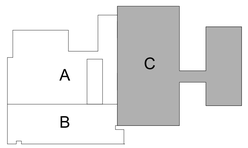
A. SEE PLANS FOR BOARD LOCATIONS/DIMENSIONS - IF A BOARD IS NOT DIMENSIONED IT SHOULD BE CENTERED ON THE WALL.
B. DO NOT INSTALL DISPLAY BOARDS IN PRIVATE OFFICES UNTIL AFTER FURNITURE INSTALLATION.

KEY NOTES - FLOOR PLANS

A12 4'-0" H CORNER GUARD - BOTTOM TO BE MOUNTED AT 4" AFF
A14 REFRIGERATOR WITH ICE MAKER - OWNER PROVIDED
A15 MICROWAVE - OWNER PROVIDED
A16 HIGH-IMPACT WALLCOVERING (WALL PROTECTION) FROM TOP OF BACKSPLASH TO BOTTOM OF WALL CABINET ABOVE (UNLESS SHOWN OTHERWISE IN ELEVATION) - WHEN SINK IS INSTALLED IN A CORNER WALLCOVERING TO RETURN ON ADJACENT WALL FULL DEPTH OF ENDSPLASH
A17 COPIER - OWNER PROVIDED
A30 EXISTING CASEWORK RELOCATED IN ROOM
A31 ALTERNATE #5A: MANUAL ROLLER WINDOW SHADE
A32 EXISTING KILN TO REMAIN
A34 WALL TILE TO BE INSTALLED ALL WALLS THIS ROOM - SEE DETAIL 1/A04/, INSTALL OUTSIDE CORNER TRIM AT NECESSARY CORNERS
A36 EXISTING SHELVING UNIT ES-1 TO BE PAINTED AND REINSTALLED THIS WALL AFTER PAINTING WORK IN ROOM IS COMPLETE
A37 EXISTING SHELVING UNIT ES-2A TO BE PAINTED AND REINSTALLED THIS WALL AFTER PAINTING WORK IN ROOM IS COMPLETE
A39 EXISTING SHELVING UNIT ES-3 TO BE PAINTED AND REINSTALLED THIS WALL AFTER PAINTING WORK IN ROOM IS COMPLETE
A41 EXISTING SHELVING UNITS ES-5A AND ES-5B TO BE COMBINED, PAINTED AND REINSTALLED THIS WALL AFTER PAINTING WORK IN ROOM IS COMPLETE
A43 EXISTING SHELVING UNIT ES-6A TO BE PAINTED AND REINSTALLED THIS WALL AFTER PAINTING WORK IN ROOM IS COMPLETE
A45 EXISTING SHELVING UNIT ES-6C TO BE PAINTED AND REINSTALLED THIS WALL AFTER PAINTING WORK IN ROOM IS COMPLETE
A46 EXISTING SHELVING UNIT ES-7 TO BE PAINTED AND REINSTALLED THIS WALL AFTER PAINTING WORK IN ROOM IS COMPLETE
A47 EXISTING SHELVING UNIT ES-8A TO BE PAINTED AND REINSTALLED THIS WALL AFTER PAINTING WORK IN ROOM IS COMPLETE
A48 EXISTING SHELVING UNIT ES-8B TO BE PAINTED AND REINSTALLED THIS WALL AFTER PAINTING WORK IN ROOM IS COMPLETE
A49 EXISTING SHELVING UNIT ES-9 TO BE PAINTED AND REINSTALLED THIS WALL AFTER PAINTING WORK IN ROOM IS COMPLETE
A50 EXISTING SHELVING UNIT ES-10 TO BE PAINTED AND REINSTALLED THIS WALL AFTER PAINTING WORK IN ROOM IS COMPLETE
A51 EXISTING SHELVING UNIT ES-11 TO BE PAINTED AND REINSTALLED THIS WALL AFTER PAINTING WORK IN ROOM IS COMPLETE
A52 EXISTING SHELVING UNIT ES-12A TO BE PAINTED AND REINSTALLED THIS WALL AFTER PAINTING WORK IN ROOM IS COMPLETE
A53 EXISTING SHELVING UNIT ES-12B TO BE PAINTED AND REINSTALLED THIS WALL AFTER PAINTING WORK IN ROOM IS COMPLETE
A56 EXISTING DISPLAY BOARD ES-13C TO BE PAINTED AND REINSTALLED THIS WALL AFTER PAINTING WORK IN ROOM IS COMPLETE
A59 EXISTING DISPLAY BOARD (EM-1A) TO BE REINSTALLED THIS WALL AFTER PAINTING WORK IS COMPLETE
A60 EXISTING DISPLAY BOARD (EM-1B) TO BE REINSTALLED THIS WALL AFTER PAINTING WORK IS COMPLETE
A62 EXISTING DISPLAY BOARD (EM-3A) TO BE REINSTALLED THIS WALL AFTER PAINTING WORK IS COMPLETE
A63 EXISTING DISPLAY BOARD (EM-3B) TO BE REINSTALLED THIS WALL AFTER PAINTING WORK IS COMPLETE
A64 EXISTING DISPLAY BOARD (EM-4) TO BE REINSTALLED THIS WALL AFTER PAINTING WORK IS COMPLETE
A65 EXISTING DISPLAY BOARD (EM-5) TO BE REINSTALLED THIS WALL AFTER PAINTING WORK IS COMPLETE
A66 EXISTING DISPLAY BOARD (EM-6) TO BE REINSTALLED THIS WALL AFTER PAINTING WORK IS COMPLETE
A67 EXISTING DISPLAY BOARD (EM-7) TO BE REINSTALLED THIS WALL AFTER PAINTING WORK IS COMPLETE
A68 EXISTING DISPLAY BOARD (EM-8) TO BE REINSTALLED THIS WALL AFTER PAINTING WORK IS COMPLETE
A69 EXISTING DISPLAY BOARD (EM-9) TO BE REINSTALLED THIS WALL AFTER PAINTING WORK IS COMPLETE
A70 EXISTING DISPLAY BOARD (EM-10) TO BE REINSTALLED THIS WALL AFTER PAINTING WORK IS COMPLETE
A74 EXISTING DISPLAY BOARD (EM-14A) TO BE REINSTALLED THIS WALL AFTER PAINTING WORK IS COMPLETE
A75 EXISTING DISPLAY BOARD (EM-14B) TO BE REINSTALLED THIS WALL AFTER PAINTING WORK IS COMPLETE
A76 EXISTING DISPLAY BOARD (EM-15A) TO BE REINSTALLED THIS WALL AFTER PAINTING WORK IS COMPLETE
A77 EXISTING DISPLAY BOARD (EM-15B) TO BE REINSTALLED THIS WALL AFTER PAINTING WORK IS COMPLETE

1 A34 WALL TILE TO BE INSTALLED ALL WALLS THIS ROOM - SEE DETAIL 1/A04/, INSTALL OUTSIDE CORNER TRIM AT NECESSARY CORNERS

N 1 A103B FIRST FLOOR PLAN INTERIOR - AREA C
1/8" = 1'-0"



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PLUMBING DEMOLITION NOTES

A. FIXTURES, EQUIPMENT, PIPING AND VALVES DENOTED AS BOLD OR DASHED LINE TYPE GENERALLY INDICATES WORK TO BE DEMOLISHED. REFER TO DRAWING NOTES AND KEYNOTES FOR FULL EXTENT OF WORK.

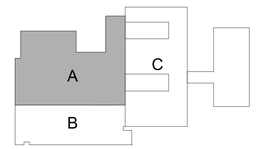
B. EXISTING CONDITIONS ARE BASED ON EXISTING DRAWINGS AND FIELD OBSERVATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING AND NOTIFYING GC OF DISCREPANCIES DUE TO ACTUAL FIELD CONDITIONS BEFORE PROCEEDING.

KEYNOTES

PD2	FIXTURE(S) IN THIS AREA TO BE DEMOLISHED. CAP SUPPLY AND WASTE PIPING WITHIN WALL. PATCH WALL TO MATCH THE EXISTING CONDITIONS.
PD3	FIXTURE(S) AND ABOVEGROUND SUPPLY AND WASTE PIPING IN THIS AREA TO BE DEMOLISHED. CAP SANITARY BELOW FLOOR AND PATCH TO MATCH EXISTING.
01 PD4	FIXTURE(S) IN THIS AREA TO BE DEMOLISHED AND REPLACED. LEAVE SUPPLY AND SANITARY CONNECTIONS FOR REPLACEMENT FIXTURE.
PD6	FIXTURE(S) ARE EXISTING TO REMAIN.
PD11	SUPPLY PIPING ABOVE CEILING IS EXISTING TO REMAIN.
PD13	SUPPLY PIPING ABOVE CEILING TO BE DEMOLISHED.
PD15	SANITARY PIPING IS EXISTING TO REMAIN.
PD16	SANITARY PIPING TO BE ABANDONED IN PLACE.
PD17	SANITARY PIPING TO BE DEMOLISHED. CAP PIPE BELOW FLOOR AND PATCH FLOOR TO MATCH EXISTING.
PD21	VENT PIPING TO BE DEMOLISHED. CAP OPEN ENDS OF PIPE ABOVE CEILING.
PD22	VENT THROUGH ROOF AT NOTED LOCATION(S) ARE EXISTING TO REMAIN.
PD23	VENT THROUGH ROOF AT NOTED LOCATION(S) ARE TO BE ABANDONED IN PLACE. CAP OPEN ENDS OF VENT PIPE BOTH ABOVE AND BELOW ROOF LINE.
PD27	STORM PIPING IS EXISTING TO REMAIN.
PD29	STORM PIPING TO BE DEMOLISHED. CAP OPEN ENDS OF PIPE BELOW FLOOR AND PATCH FLOOR TO MATCH EXISTING.
PD31	FLOOR DRAINS TO BE DEMOLISHED. CAP SANITARY PIPING BELOW FLOOR AND PATCH TO MATCH EXISTING.
PD32	EXISTING TO REMAIN UNDERGROUND DOMESTIC WATER SERVICE PIPING.



1 P011 PLUMBING DEMOLITION PLAN AREA A
1/8" = 1'-0"



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KEYNOTES

P3 SANITARY PIPE DOWN.

P10 NEW 3" VENT THRU ROOF. REFER TO DETAIL 7/P000.

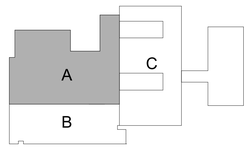
P16 ADJUST BALANCING VALVE FLOW RATE TO BE 3.5 GPM.

P17 ADJUST BALANCING VALVE FLOW RATE TO BE 5.5 GPM.

P29 STORM PIPE DOWN.



1 P201 FIRST FLOOR PLUMBING PLAN AREA A
1/8" = 1'-0"



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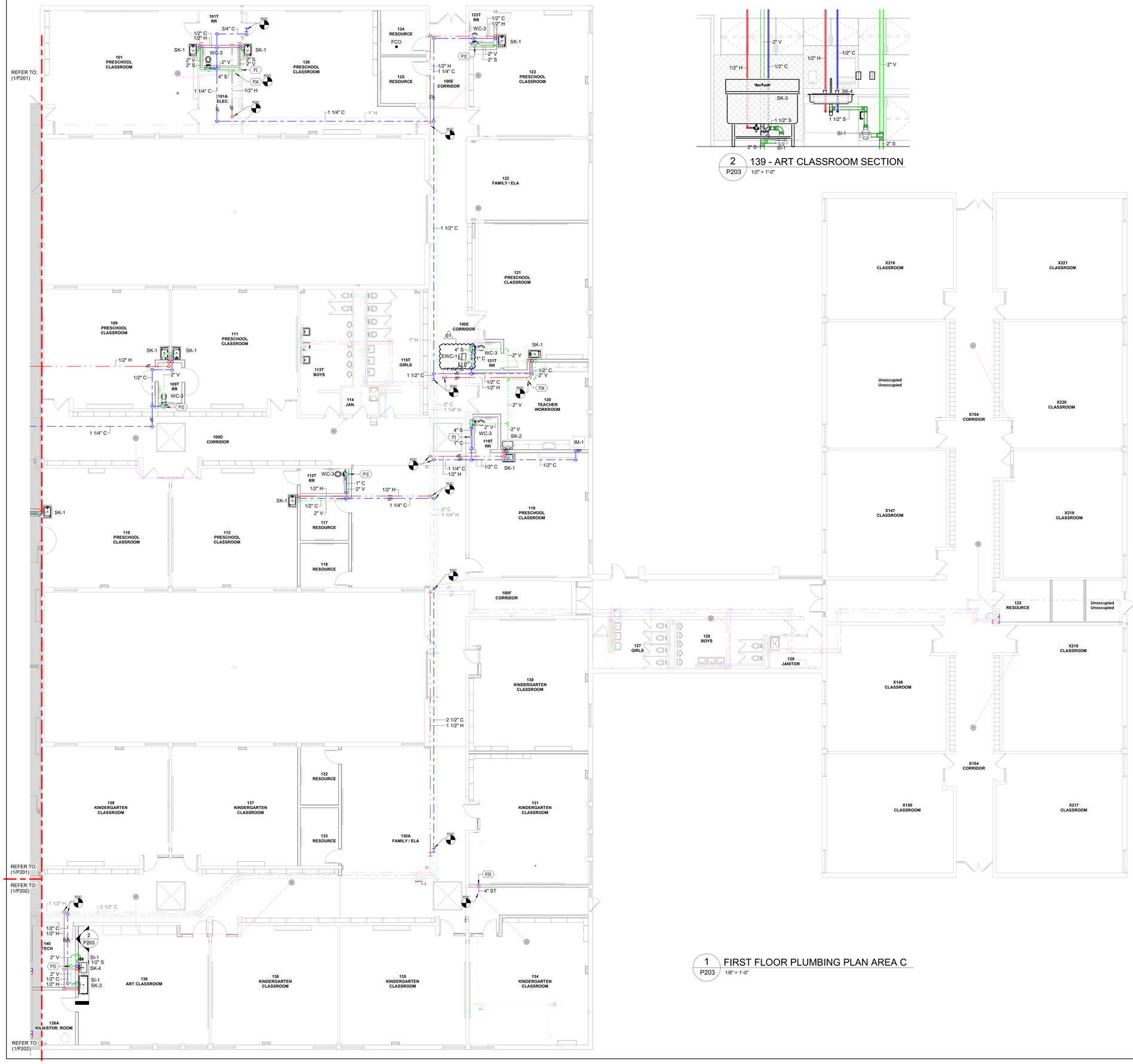
FIRST FLOOR PLUMBING PLAN AREA A

DATE 04-28-23

COMM NO. 2021091.02

P201

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1 P203 — FIRST FLOOR PLUMBING PLAN AREA C
1/8" = 1'-0"

2 P203 — 139 - ART CLASSROOM SECTION
1/2" = 1'-0"

KEYNOTES

P3	SANITARY PIPE DOWN.
P10	NEW 3" VENT THRU ROOF. REFER TO DETAIL 7/P000.
P29	STORM PIPE DOWN.
P34	CONNECT NEW PIPING TO EXISTING VENT THROUGH ROOF.

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WINTON WOODS CITY SCHOOLS
EARLY CHILDHOOD RENOVATION
825 WAYCROSS ROAD, CINCINNATI, OHIO 45240

WINTON WOODS CITY SCHOOLS
825 WAYCROSS ROAD, SUITE A, CINCINNATI, OHIO 45240

ISSUANCES

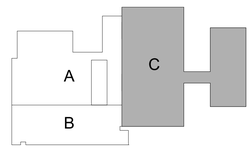
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FIRST FLOOR PLUMBING PLAN AREA C

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P203



KEY PLAN
NTS

0'-1" REFERENCE LINE

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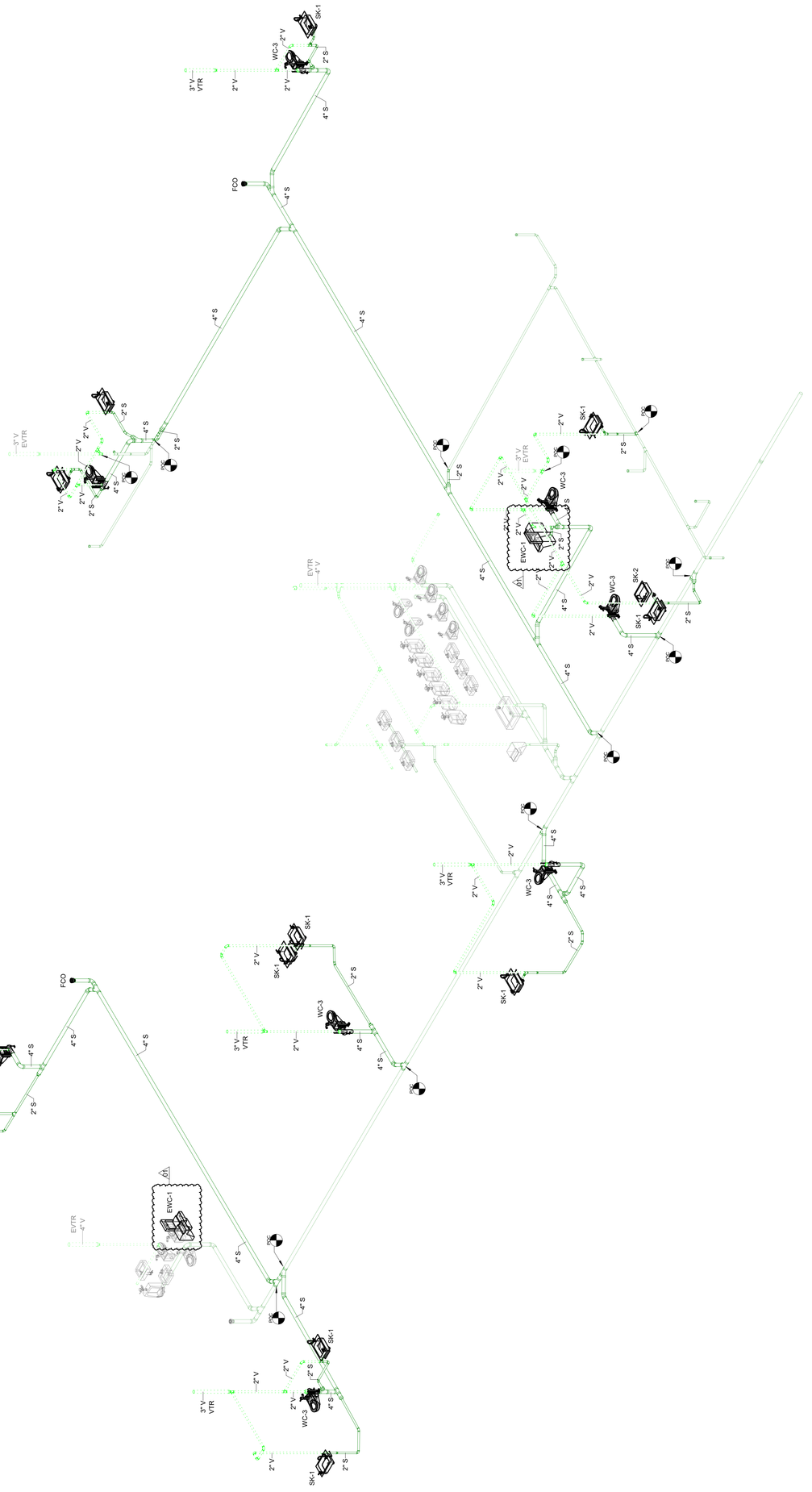
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WASTE AND VENT ISOMETRICS - AREA C

DATE 04-28-23

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P401



1 WASTE AND VENT ISOMETRIC - AREA C WEST
P401

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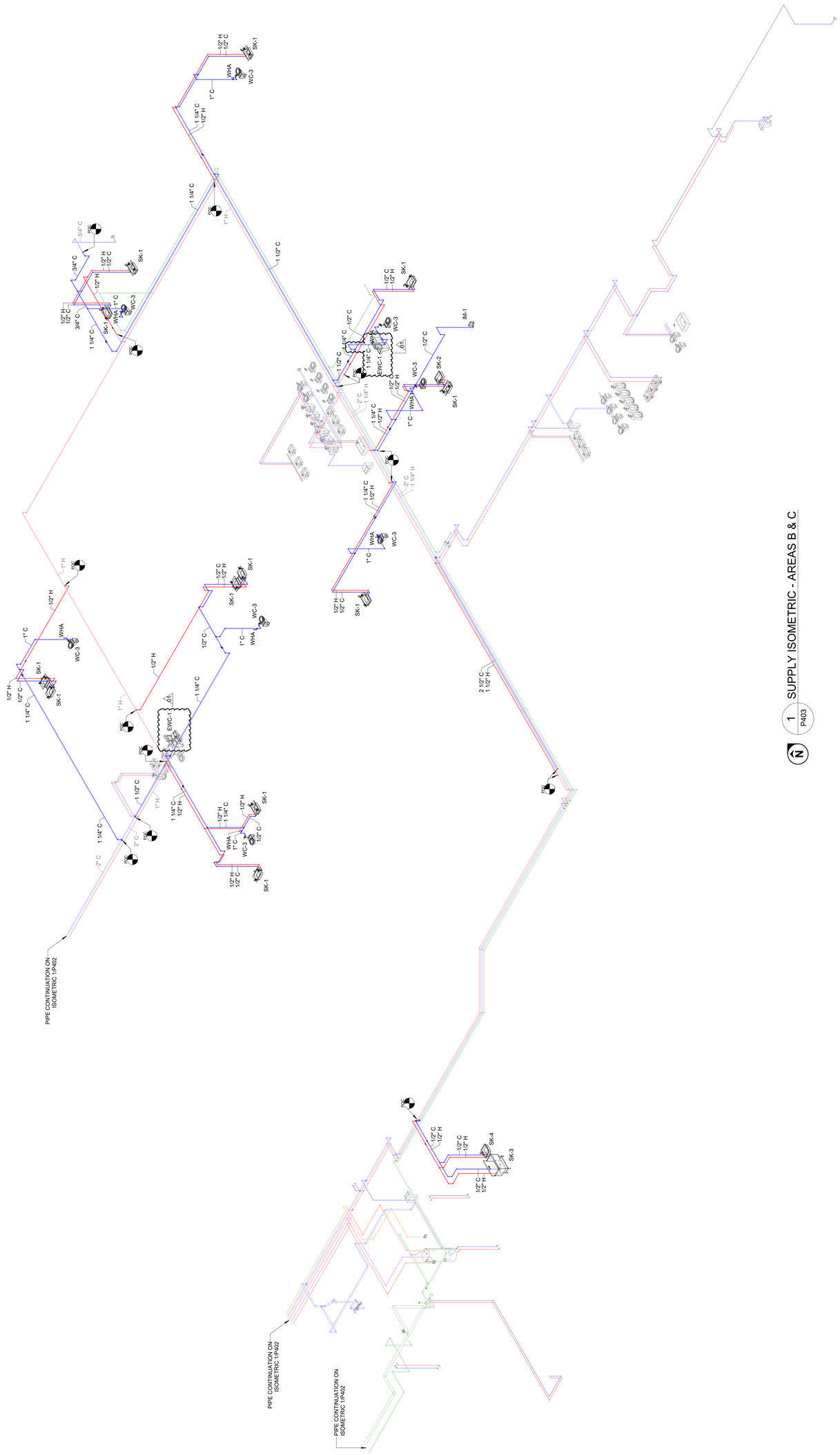
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SUPPLY ISOMETRICS - AREA B & C

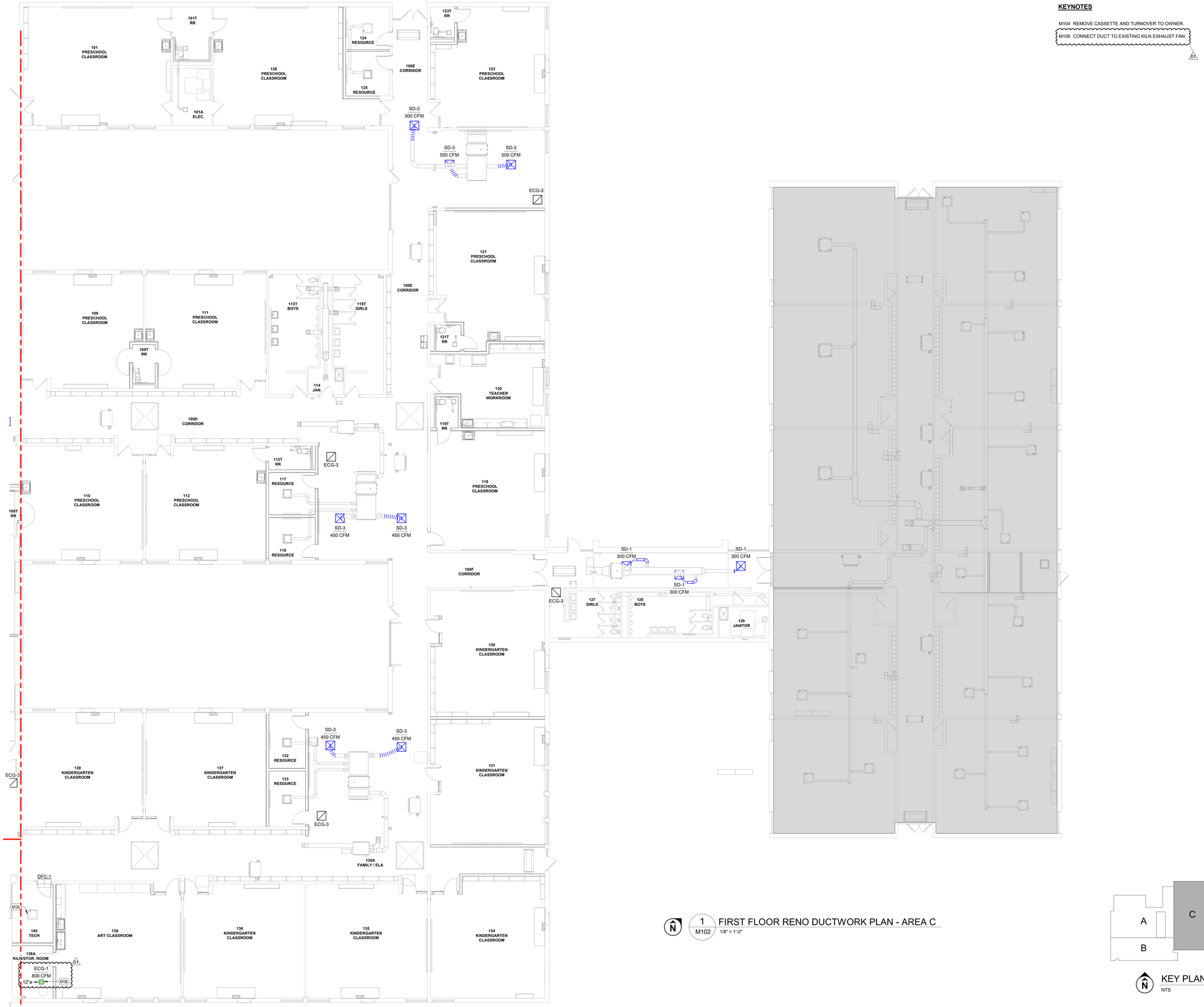
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P403



1 SUPPLY ISOMETRIC - AREAS B & C
P403



1 M102 FIRST FLOOR RENO DUCTWORK PLAN - AREA C
1/8" = 1'-0"

KEYNOTES

M104 REMOVE CASSETTE AND TURNOVER TO OWNER.

M106 CONNECT DUCT TO EXISTING KILN EXHAUST FAN. 01

KEY PLAN
NTS

"0.1" REFERENCE LINE"

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FIRST FLOOR RENO DUCTWORK PLAN AREA C

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M102

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LIGHTING FIXTURE LEGEND

LIGHTING FIXTURE TAGS

- CAPITAL LETTER WITH NUMBER DENOTES FIXTURE TYPE - REFER TO LIGHT FIXTURE SCHEDULE BELOW.
- SMALL LETTER DENOTES SWITCH LEG/RELAY NUMBER - REFER TO E100 SERIES DRAWINGS FOR TYPICAL ROOM LAYOUTS.

STANDARD LIGHTING FIXTURE SYMBOLS

- A10 r — 2'x4' RECESSED TROFFER
- A20 r — 2'x2' RECESSED TROFFER
- A20 r — 1'x4' RECESSED TROFFER
- C10 r — LINEAR PENDANT
- D10 r — RECESSED DOWNLIGHT
- G10 r — CYLINDRICAL PENDANT

EMERGENCY LIGHTING FIXTURES

- GRAY FILLED IN AREA DENOTES EMERGENCY FIXTURE.
- CONNECT TO EMERGENCY POWER CIRCUIT AHEAD OF SWITCHING.
- NL DENOTES NIGHT LIGHT.

E10 — DUAL HEAD EMERGENCY FIXTURE

X10 — EXIT SIGN
- SHADED AREA DENOTES FACE
- ARROW DENOTES ARROW DIRECTION

A10 NL — 2'x4' RECESSED TROFFER - NIGHT LIGHT

GENERAL NOTES - LIGHTING FIXTURES

A. ALL FIXTURES MARKED 'ED' ARE EXISTING TO BE DEMOLISHED. VERIFY SERVING PANEL AND CIRCUIT NUMBER PRIOR TO DISCONNECTION. REMOVE LIGHTING BRANCH CIRCUITING ABOVE FINISHED CEILING. MAINTAIN HOME RUN CONDUIT FOR CONNECTION TO NEW FIXTURES.

B. REFER TO LIGHTING CONTROL SCHEMATICS AND LIGHTING CIRCUIT SCHEDULES ON E500 SERIES DRAWINGS.

LIGHT FIXTURE SCHEDULE

FIXTURE TYPE	FIXTURE BASIS OF DESIGN	ALTERNATE MANUFACTURERS	FIXTURE DESCRIPTION	LAMP	LIGHT DISTRIBUTION	MINIMUM LUMEN OUTPUT	COLOR TEMPERATURE	DRIVER	VOLTAGE	MAXIMUM WATTAGE	MOUNTING METHOD	TYPE COMMENTS
A30	LITHONIA EPANL	COLUMBIA CFP, LSI SFP, PHILIPS FXP, RAB EZPAN	RECESSED TROFFER, FLAT PANEL, EDGE-LIT, STEEL CONSTRUCTION, DLC RATED, 2' x 4' x 2-1/4"	LED	STANDARD	3000 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	26 VA	CEILING GRID	
A31	LITHONIA EPANL	COLUMBIA CFP, LSI SFP, PHILIPS FXP, RAB EZPAN	RECESSED TROFFER, FLAT PANEL, EDGE-LIT, STEEL CONSTRUCTION, DLC RATED, 2' x 4' x 2-1/4"	LED	STANDARD	4000 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	38 VA	CEILING GRID	
A32	LITHONIA EPANL	COLUMBIA CFP, LSI SFP, PHILIPS FXP, RAB EZPAN	RECESSED TROFFER, FLAT PANEL, EDGE-LIT, STEEL CONSTRUCTION, DLC RATED, 2' x 4' x 2-1/4"	LED	STANDARD	4800 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	46 VA	CEILING GRID	
A33	LITHONIA EPANL	COLUMBIA CFP, LSI SFP, PHILIPS FXP, RAB EZPAN	RECESSED TROFFER, FLAT PANEL, EDGE-LIT, STEEL CONSTRUCTION, DLC RATED, 2' x 4' x 2-1/4"	LED	STANDARD	6000 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	50 VA	CEILING GRID	
C12	LITECONTROL 4L-P-ID	HE WILLIAMS MX4, LUMENWERX VIA4, LUX ILLUMINAIRE EOS 4.0, MARK ARCHITECTURAL LIGHTING SL4L	LINEAR PENDANT, INDIRECT/DIRECT DISTRIBUTION, SOFT DIFFUSE LENS, COLOR TO BE SELECTED BY ARCHITECT, 4" WIDE x 8' LONGLINEAR PENDANT, INDIRECT/DIRECT DISTRIBUTION, SOFT DIFFUSE LENS, COLOR TO BE SELECTED BY ARCHITECT, 4" WIDE x 8' LONG	LED	300 LPF UP, 1000 LPF DOWN	10400 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	80 VA	CABLE MOUNTED	MOUNT AT 12'-0" AFF
C32	LITECONTROL 4L-P-D	HE WILLIAMS MX4, LUMENWERX VIA4, LUX ILLUMINAIRE EOS 4.0, MARK ARCHITECTURAL LIGHTING SL4L	LINEAR PENDANT, DIRECT DISTRIBUTION, SOFT DIFFUSE LENS, COLOR TO BE SELECTED BY ARCHITECT, 4" WIDE x 8' LONG	LED	1000 LPF DOWN	8000 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	72 VA	CABLE MOUNTED	MOUNT AT 15'-0" AFF
D20	PRESCOLITE LF6SL	INDY L6, LSI LAD6, PHILIPS LIGHTOLIER OM6LED, PORTFOLIO LD6A	RECESSED DOWN LIGHT, ROUND, PAINTED WHITE TRIM, SEMI-SPECULAR ALZAK REFLECTOR, 6" DIAMETER	LED	STANDARD	1100 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	11 VA	CEILING RECESSED	
D21	PRESCOLITE LF6SL	INDY L6, LSI LAD6, PHILIPS LIGHTOLIER OM6LED, PORTFOLIO LD6A	RECESSED DOWN LIGHT, ROUND, PAINTED WHITE TRIM, SEMI-SPECULAR ALZAK REFLECTOR, 6" DIAMETER, WET LOCATION RATED	LED	STANDARD	1500 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	17 VA	CEILING RECESSED	
D30	LITHONIA WF4	LITELINE SLMPRO4, PHILIPS FD, WAC LIGHTING FM-07RN	RECESSED WAFER MODULE DOWN LIGHT, ROUND, PAINTED WHITE TRIM, 4" DIAMETER	LED	STANDARD	750 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	10 VA	CEILING RECESSED	
E10	DUAL-LITE LZ2	BARRON LED-60, LSI EAS, LITHONIA ELM2, SURE-LITES SEL25	EMERGENCY LIGHT, DUAL HEAD, THERMOPLASTIC, WHITE FINISH, INTEGRAL BATTERY PACK	LED	N/A			N/A	120 V	6 VA	CEILING / WALL MOUNTED	
F10	LITHONIA ZL1F	COLUMBIA MPS4, LSI SDL, METALUX 4SNLED, PHILIPS FSSEZ	INDUSTRIAL LINEAR STRIP, STEEL HOUSING, 4' LONG	LED	STANDARD	4000 lm	4000 K	LED DRIVER	120 V	40 VA	CHAIN MOUNTED	MOUNT AT 7'-6" AFF
F11	LITHONIA WL4	COLUMBIA MPS4, LSI SDL, METALUX 4SNLED, PHILIPS FSSEZ	INDUSTRIAL LINEAR STRIP, STEEL HOUSING, WIRE GUARD, 4' LONG	LED	STANDARD	4000 lm	4000 K	LED DRIVER	120 V	40 VA	CHAIN MOUNTED	MOUNT AT X'-X" AFF
H11	LITHONIA IBL	METALUX HBLED, GE ALBEO ABV1, APPROVED EQUALS	HIGH BAY FIXTURE, RECTANGULAR, WIRE GUARD, 46" x 16" x 3" DEEP	LED	WIDE	24000 lm	4000 K	LED DRIVER WITH 0-10V DIMMING	120 V	200 VA	CHAIN MOUNTED	REFER TO MOUNTING DETAIL 3/E501
W10	LITHONIA WPX0	GARDCO GEOFORM, APPROVED EQUALS	EXTERIOR WALL PACK, SINGLE PIECE ALUMINUM HOUSING, WEATHERPROOF, INTEGRAL PHOTOCELL, FINISH SELECTED BY ARCHITECT	LED	MEDIUM	1500 lm	4000 K	LED DRIVER	120 V	12 VA	WALL MOUNTED	MOUNT AT 8'-0" AFF
X10	DUAL-LITE SE	SURE-LITES CX, LITHONIA LE, BARRON 400U, LSI EXC	EXIT SIGN, SINGLE FACE, RED LETTERS, CAST ALUMINUM, DIRECTIONAL ARROWS AS SHOWN ON PLANS, WHITE HOUSING	LED	N/A	0 lm	0 K	N/A	120 V	2 VA	CEILING/WALL MOUNTED	WIRED TO UNSWITCHED CIRCUIT
X12	DUAL-LITE SE	SURE-LITES CX, LITHONIA LE, BARRON 400U, LSI EXC	EXIT SIGN, DOUBLE FACE, RED LETTERS, CAST ALUMINUM, DIRECTIONAL ARROWS AS SHOWN ON PLANS, WHITE HOUSING	LED	N/A	0 lm	0 K	N/A	120 V	4 VA	CEILING/WALL MOUNTED	WIRED TO UNSWITCHED CIRCUIT
X30	DUAL-LITE EVE4X	BARRON VEX-WP, APPROVED EQUALS	EXIT SIGN, SINGLE FACE, RED LETTERS, POLYCARBONATE, EXTERIOR RATED, DIRECTIONAL ARROWS AS SHOWN ON PLANS, WHITE HOUSING	LED	N/A	0 lm	0 K	N/A	120 V	5 VA	CEILING/WALL MOUNTED	WIRED TO UNSWITCHED CIRCUIT

FIRE ALARM LEGEND

FIRE ALARM DRAWINGS INDICATE A BASIS OF DESIGN FOR LOCATIONS AND QUANTITIES OF DEVICES, APPLIANCES, CONTROL PANELS, ETC. FIRE ALARM SYSTEM DESIGNER SHALL REVISE THE PLANS AS REQUIRED TO MEET ALL CODE AND PROJECT REQUIREMENTS. FIRE ALARM SYSTEM SHALL BE DESIGNED BY A LICENSED FIRE ALARM SYSTEM DESIGNER. REFER TO SPECIFICATIONS FOR ALL DEVICE MOUNTING HEIGHTS.

NOTIFICATION APPLIANCES

WALL MOUNTED — 75cd F XX
CEILING MOUNTED — 75cd F XX
CANDELA RATING (75 IF NOT NOTED)

F INDICATES DEVICE DESIGNATION

EG	ELECTRIC GONG
H	HORN ONLY (▶)
S	STROBE ONLY (▶)
SP	SPEAKER ONLY (▶)
SS	SPEAKER/STROBE COMBO
HS	HORN/STROBE COMBO

XX INDICATES SPECIAL FEATURES

WG	WIRE GUARD
WP	WEATHERPROOF

INITIATING DEVICES

XX

XX INDICATES DEVICE TYPE

F	MANUAL PULL STATION
RTS	REMOTE TEST SWITCH
PS	PRESSURE SWITCH
IAM	INPUT ADDRESSABLE MODULE
K	KEY BOX

DETECTOR — X D

X INDICATES DETECTOR TYPE

CO	CARBON MONOXIDE DETECTOR
H	HEAT DETECTOR
S	SMOKE TETECTOR

DUCT SMOKE DETECTOR(S) SHALL BE INSTALLED IN EACH RETURN AIR DUCT(S) PER MANUFACTURER'S WRITTEN INSTRUCTIONS. PROVIDE RELAY TO SHUTDOWN HVAC EQUIPMENT.

DAMPER — D Y

Y INDICATES DAMPER TYPE

F	FIRE DAMPER
FS	FIRE AND SMOKE DAMPER
S	SMOKE DAMPER

PANELS

XXXX

XXXX INDICATES PANEL TYPE

FACP	FIRE ALARM CONTROL PANEL
FAP	POWER EXTENDER PANEL
FAA	REMOTE ANNUNCIATOR PANEL

ACCESSORY DEVICES

XX

XX INDICATES DEVICE TYPE

FHO	FIRE DOOR HOLD OPEN
R	RELAY

WIRING DEVICE LEGEND

MOUNTING HEIGHT OF BACKBOX, RELATIVE TO BOTTOM OF BOX. IF OMITTED, DEFAULT MOUNTING HEIGHT IS 16"

XX/44" — DUPLEX

DOUBLE-DUPLEX

XX INDICATES SPECIAL NOTE (IF USED)

AV	AUDIO/VISUAL OUTLET
CO	COPIER
D	DRYER
EWC	ELECTRIC WATER COOLER
M	MICROWAVE @ 60"AFF
P	PROJECTOR @ 100" AFF
PR	PRINTER
REF	REFRIGERATOR @ 60"AFF
TR	TECH RACK
TU	TECH ROOM UTILITY RECEPTACLE
V	VENDING MACHINE @ 60"AFF
WP	WEATHER PROOF

J — JUNCTION BOX

J INDICATES DEVICE DESIGNATION (IF USED)

VCP VRF CONTROL PANEL

GFI — GROUND FAULT PROTECTED

GFI — GROUND FAULT PROTECTED, ABOVE COUNTER

TECHNOLOGY SYMBOL LEGEND

MOUNTING HEIGHT OF BACKBOX, RELATIVE TO BOTTOM OF BOX. IF OMITTED, DEFAULT MOUNTING HEIGHT IS 16"

XX/44" — TECHNOLOGY OUTLET

XX INDICATES TYPE OF TECHNOLOGY OUTLET [REFER TO LEGEND ON SHEET T001]

TECHNOLOGY OUTLET TYPES

2D	(2) DATA OUTLETS
AV	AUDIO/VISUAL OUTLET
P	PROJECTOR @ 100" AFF
TC	TEACHER COMPUTER STATION
TR	TECHNOLOGY RACK
TV	TELEVISION
WAP	WIRELESS ACCESS POINT

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	SHORT THROW PROJECTOR	WALL MOUNTED REFER TO DETAIL 1/E500
	PROJECTOR	CEILING MOUNTED
	PAN / TILT / ZOOM SECURITY CAMERA WALL MOUNT	*MOUNT AS SHOWN BELOW UNLESS OTHERWISE NOTED* INTERIOR - CEILING OR 9'-0" AFF EXTERIOR - 11'-6" AFF
TV-XX	TELEVISION XX INDICATES SCREEN SIZE	REFER TO ARCHITECTURAL ELEVATIONS
TV-XX	MOBILE TV CART XX INDICATES SCREEN SIZE	FLOOR
	CABLE TRAY SEE PLANS FOR SIZE	CEILING SUSPENDED
	CONDUIT SLEEVE	9'-6" AFF

LIGHTING CONTROL SYMBOL LEGEND

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	XX INDICATES SWITCH TYPE. IF OMITTED, SWITCH IS SINGLE POLE.	

XX/# — LIGHTING SWITCH — # OF "1" INDICATES NUMBER OF SWITCHES

SWITCH TYPES

3	3 WAY
4	4 WAY
CS1	CLASSROOM SWITCH
GS1	GYM LIGHTING CONTROLS, PROVIDE CLEAR, HINGED, POLYCARBONATE COVER FOR PROTECTION
KS1	KITCHEN SWITCH
OS1	OCCUPANCY SENSOR
OSD	OCCUPANCY SENSOR WITH DIMMING
T	TIMER SWITCH
D	DIMMING SWITCH

ACCESS CONTROL SYMBOL LEGEND

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
CR	CREDENTIAL READER	WALL MOUNTED REFER TO DETAIL 2/E500
DHO	MAGNETIC DOOR HOLD OPEN	WALL MOUNTED REFER TO DETAIL 2/E500
DPS	DOOR POSITION SWITCH	DOOR FRAME
DR	DOOR RELEASE BUTTON	CASEWORK MOUNTED REFER TO F-SERIES SHEETS
EL	ELECTRONIC LATCH	DOOR FRAME
FHO	FIRE ALARM SYSTEM MAGNETIC DOOR HOLD OPEN	WALL MOUNTED REFER TO DETAIL 2/E500
HA	HANDICAP ACTUATOR	DOOR FRAME
HC	HANDICAP OPERATOR	WALL MOUNTED REFER TO DETAIL 2/E500
VI	VIDEO INTERCOM STATION	WALL MOUNTED REFER TO DETAIL 2/E500
VIM	VIDEO INTERCOM MASTER STATION	CASEWORK MOUNTED REFER TO F-SERIES SHEETS

COMMUNICATION SYMBOL LEGEND

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
PA	PUBLIC ADDRESS SPEAKER	CEILING MOUNTED
PA	PUBLIC ADDRESS SPEAKER	WALL MOUNTED AT 88" AFF UNLESS NOTED OTHERWISE

DRAFTING SYMBOL LEGEND

SYMBOL	DESCRIPTION
X	DRAWING KEY NOTE ONLY NOTES THAT APPLY APPEAR ON EACH SHEET. KEY NOTE NUMBERS ARE CONSISTENT FROM SHEET TO SHEET, AND THEREFORE MAY NOT APPEAR IN NUMERICAL ORDER.
2 / E501	DETAIL CALLOUT REFER TO DETAIL 2 ON SHEET E501

26-ELECTRICAL SHEET LIST - RENO

SHEET NUMBER	SHEET NAME
E000	ELECTRICAL LEGENDS
E010	FIRST FLOOR DEMO PLAN AREA A
E011	FIRST FLOOR DEMO PLAN AREA B
E012	FIRST FLOOR DEMO PLAN AREA C
E100	FIRST FLOOR LIGHTING PLAN AREA A
E101	FIRST FLOOR LIGHTING PLAN AREA B
E102	FIRST FLOOR LIGHTING PLAN AREA C
E200	FIRST FLOOR POWER PLAN AREA A
E201	FIRST FLOOR POWER PLAN AREA B
E202	FIRST FLOOR POWER PLAN AREA C
E203	ROOF POWER PLAN
E300	FIRE ALARM PLAN AREA A
E301	FIRE ALARM PLAN AREA B
E302	FIRE ALARM PLAN AREA C
E303	FIRE ALARM PLAN AREA C Copy 1
E400	PANEL SCHEDULES
E401	PANEL SCHEDULES
E402	PANEL SCHEDULES
E403	PANEL SCHEDULES
E500	ELECTRICAL DETAILS
E501	LIGHTING CONTROL DETAILS
E502	LIGHTING CONTROL DETAILS
E520	ENLARGED KITCHEN PLAN
E600	ELECTRICAL SINGLE LINE DIAGRAM

GENERAL NOTES: - APPLIES TO ALL ELECTRICAL DRAWINGS

A. EC SHALL BE RESPONSIBLE TO INSTALL A SWITCH BOX AND 3/4" CONDUIT TO ABOVE THE CEILING IN EACH ROOM FOR TEMPERATURE CONTROL THERMOSTAT. REFER TO THE MECHANICAL DRAWINGS FOR LOCATIONS OF THESE DEVICES.

B. EC MAY COMBINE MULTIPLE CIRCUITS INTO HOME RUNS. NO MORE THAN 3 CIRCUITS SHALL BE IN EACH HOME RUN CONDUIT, AND THE WIRE MUST BE DERATED IN ACCORDANCE WITH NEC. THESE CIRCUITS SHALL BE REQUIRED TO BE ON SEPARATE PHASES (A,B,C).

C. EC SHALL DERATE WIRE IN LONG RUNS ACCORDING TO THE WIRE SIZING TABLE SHOWN BELOW:

WIRE SIZING CHART

RUN LENGTH		CIRCUIT BREAKER		
120V	277V	20A	30A	40A
000-100'	000-200'	12	10	8
101-150'	201-300'	10	8	6
151-200'	301-450'	8	6	4

D. WHERE ELECTRICAL LOAD ON A CIRCUIT IS OVER 20 AMPERES, EACH CIRCUIT SHALL BE RUN IN A SEPARATE CONDUIT TO THE PANELBOARD.

E. ALL VAV BOXES, EXHAUST FANS, MOTORS, MISC. HVAC EQUIPMENT, APPLIANCES, ETC. INDICATED ON THESE DRAWINGS SHALL HAVE A MOTOR RATED SWITCH LOCATED NEAR THE MOTOR FOR SERVICING. PROVIDE DISCONNECTING MEANS AS REQUIRED BY THE NEC.

F. ALL PANELBOARDS SHALL BE INSTALLED 72" AFF TO THE TOP OF THE PANEL. PROVIDE 10% SPARE CONDUITS (MINIMUM OF 4) TO ABOVE THE CEILING FOR FUTURE.

G. HEIGHT DIMENSIONS SHOWN ON THIS PLAN ARE MEASURED FROM THE BOTTOM OF THE DEVICE. HORIZONTAL DIMENSIONS ARE MEASURED TO THE CENTER OF THE DEVICE OR GROUP OF DEVICES WHICH THE DIMENSION PERTAINS TO.

H. FOR LIGHT FIXTURE MOUNTING DETAILS, SEE LUMINAIRE SCHEDULE, ON SHEET E000.

CONDUCTOR AND CONDUIT COLOR CODING

APPLICATION	COLOR
PHASE A CONDUCTOR	BROWN (480V), BLACK (208V)
PHASE B CONDUCTOR	ORANGE (480V), RED (208V)
PHASE C CONDUCTOR	YELLOW (480V), BLUE (208V)
NEUTRAL CONDUCTOR	GREY (480V), WHITE (208V)
GROUND CONDUCTOR	GREEN
CONTROL CONDUCTOR, 120V	RED
CONTROL CONDUCTOR, NEU	WHITE
CONTROL CONDUCTOR, 24V	BLUE
CONTROL CONDUCTOR, EXTERNAL SOURCE	YELLOW

ABBREVIATIONS:

EMT	ELECTRICAL METALLIC TUBING
IMC	INTERMEDIATE METAL CONDUIT
FMC	FLEXIBLE METALLIC CONDUIT
LFMC	LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT
MC	METAL CLAD CABLE
RNC	RIGID NONMETALLIC CONDUIT
RSC	RIGID STEEL CONDUIT

WIRING METHODS SCHEDULE

APPLICATION		LOCATION	ALLOWABLE CONDUIT AND RACEWAY TYPE	OUTLET BOXES	CONDUIT BODIES	ENCLOSURE TYPE	FASTENERS/ SUPPORTS	CONDUIT AND RACEWAY NOTES:
INTERIOR APPLICATIONS	CONCEALED	CMU WALLS	EMT	STEEL METAL	CAST ALUMINIUM	NEMA 1	ZINC PLATED	-MINIMUM CONDUIT SIZE 3/4"C
		METAL STUD PARTITIONS	EMT AND MC					
		ABOVE ACCESSIBLE CEILINGS	EMT AND MC					
	EXPOSED	FINISHED SPACES *(SEE NOTE A)*	SURFACE RACEWAY	STEEL METAL	CAST ALUMINIUM	NEMA 1	ZINC PLATED	-MINIMUM SIZE 3/4"C
		UNFINISHED SPACES *(SEE NOTE A)*	EMT					
		FINAL CONNECTION TO MOTORIZED EQUIPMENT	FMC (PLENUMS) LFMC (NON-PLENUMS)					
EXTERIOR APPLICATIONS	BELOW GRADE	FEEDERS	RNC					-MINIMUM SIZE 1"C -DO NOT ROUTE BRANCH CIRCUITS UNDER SLAB UNLESS OTHERWISE NOTED ON THE PLANS.
		BRANCH CIRCUITS	RNC					
	ABOVE GRADE	FINAL CONNECTION TO MOTORIZED EQUIPMENT	LFMC	GALVANIZED MALLEABLE IRON	GALVANIZED MALLEABLE IRON	NEMA 3R	GALVANIZED	-CONDUIT SHALL ENTER FROM SIDE OR BOTTOM WHERE PRACTICAL. -PROVIDE WATERTIGHT HUBS FOR CONDUIT CONNECTION.
		ALL OTHER LOCATIONS	IMC AND RSC					

NOTES:
A) UNFINISHED SPACES INCLUDE DEDICATED MECHANICAL, ELECTRICAL, AND TECHNOLOGY ROOMS ONLY. UNLESS OTHERWISE INDICATED ON DRAWINGS, TREAT ALL OTHER SPACES AS FINISHED SPACES.

"0'-1" REFERENCE LINE"

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ISSUANCES

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ELECTRICAL LEGENDS

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GENERAL POWER NOTES:

A. REFER TO E000 SERIES SHEETS FOR PANEL AND CIRCUIT NUMBERS FOR MECHANICAL AND PLUMBING EQUIPMENT.

B. REFER TO E000 SERIES SHEETS FOR STARTER AND DISCONNECT REQUIREMENTS FOR MECHANICAL AND PLUMBING EQUIPMENT.

C. EC SHALL BE RESPONSIBLE TO INSTALL A SWITCH BOX AND 3/4" CONDUIT TO ABOVE THE ACCESSIBLE CEILING IN EACH ROOM FOR TEMPERATURE CONTROL THERMOSTAT. DEVICES SHOWN ON ELECTRICAL DRAWINGS ARE FOR REFERENCE ONLY. REFER TO THE M SERIES DRAWINGS FOR THERMOSTAT LOCATIONS.

D. EC SHALL BE RESPONSIBLE FOR TECHNOLOGY ROUGH-IN LOCATIONS.

E. ALL 15A AND 20A, 125V AND 250V, NON-LOCKING TYPE RECEPTACLES, THROUGHOUT THE BUILDING SHALL BE TAMPER-RESISTANT WHERE REQUIRED.

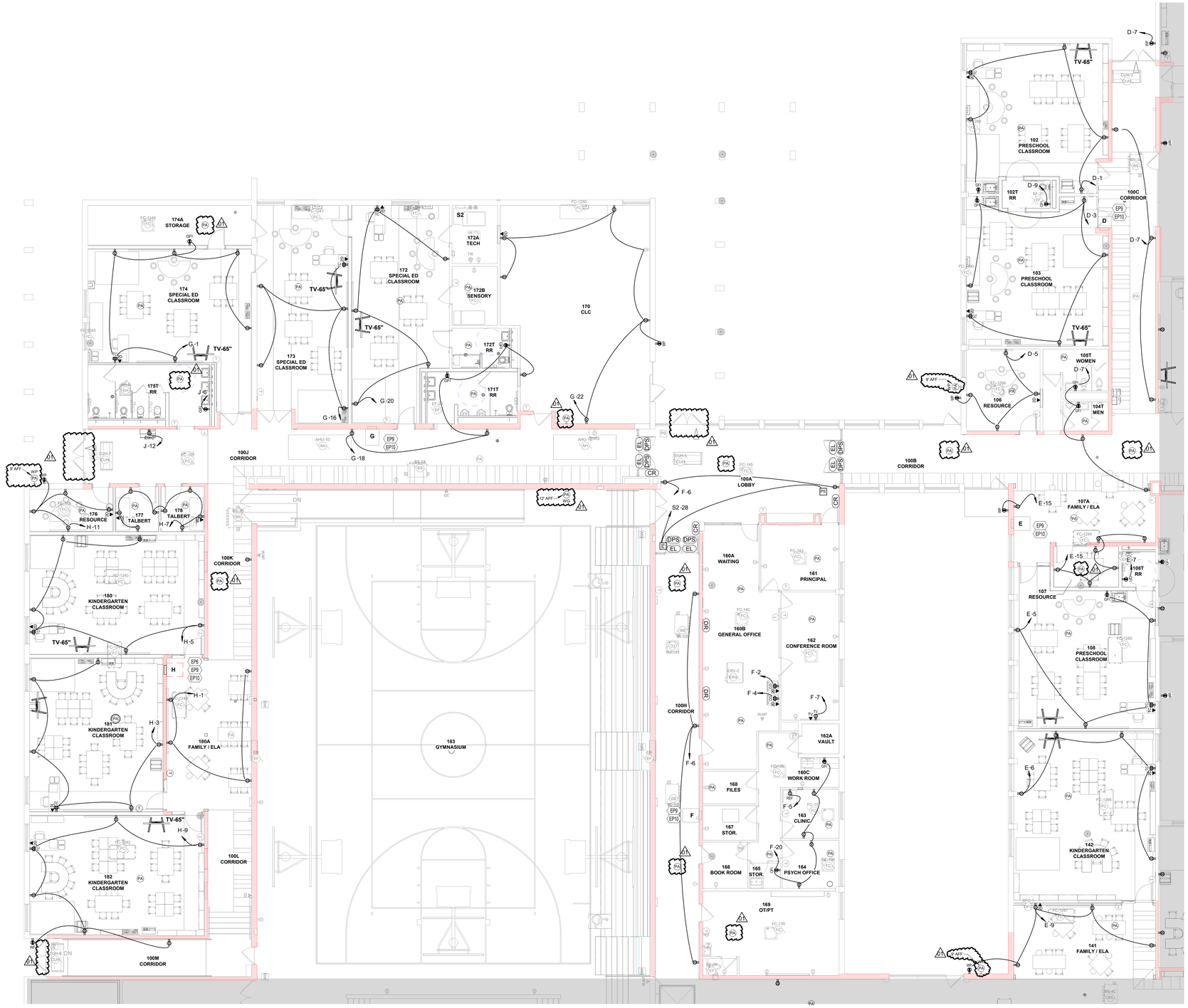
F. BURGLAR ALARM TO REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION. COORDINATE EXACT REQUIREMENTS IN FEILD.

KEYNOTES

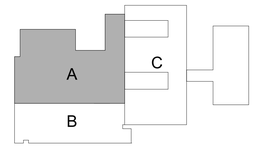
EP6 RELOCATED PANEL. CONNECT TO FEEDERS AND BRANCH CIRCUITS MADE AVAILABLE IN DEMOLITION.

EP9 ADD EQUIPMENT GROUNDING CONDUCTORS TO REUSED BRANCH CIRCUITS AS REQUIRED. VERIFY EXACT REQUIREMENTS IN FIELD.

EP10 ADD EQUIPMENT GROUNDING BUS TO EXISTING PANEL AS REQUIRED. PROVIDE EQUIPMENT GROUNDING CONDUCTORS TO SERVING PANEL. REFER TO SINGLE LINE DIAGRAM ON E600. VERIFY EXACT REQUIREMENTS IN FIELD.



1 E200 FIRST FLOOR POWER PLAN AREA A - RENO
1/8" = 1'-0"



KEY PLAN
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"0-1" REFERENCE LINE

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FIRST FLOOR POWER PLAN AREA A

DATE 04-28-23

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GENERAL POWER NOTES:

A. REFER TO E000 SERIES SHEETS FOR PANEL AND CIRCUIT NUMBERS FOR MECHANICAL AND PLUMBING EQUIPMENT.

B. REFER TO E000 SERIES SHEETS FOR STARTER AND DISCONNECT REQUIREMENTS FOR MECHANICAL AND PLUMBING EQUIPMENT.

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D. EC SHALL BE RESPONSIBLE FOR TECHNOLOGY ROUGH-IN LOCATIONS.

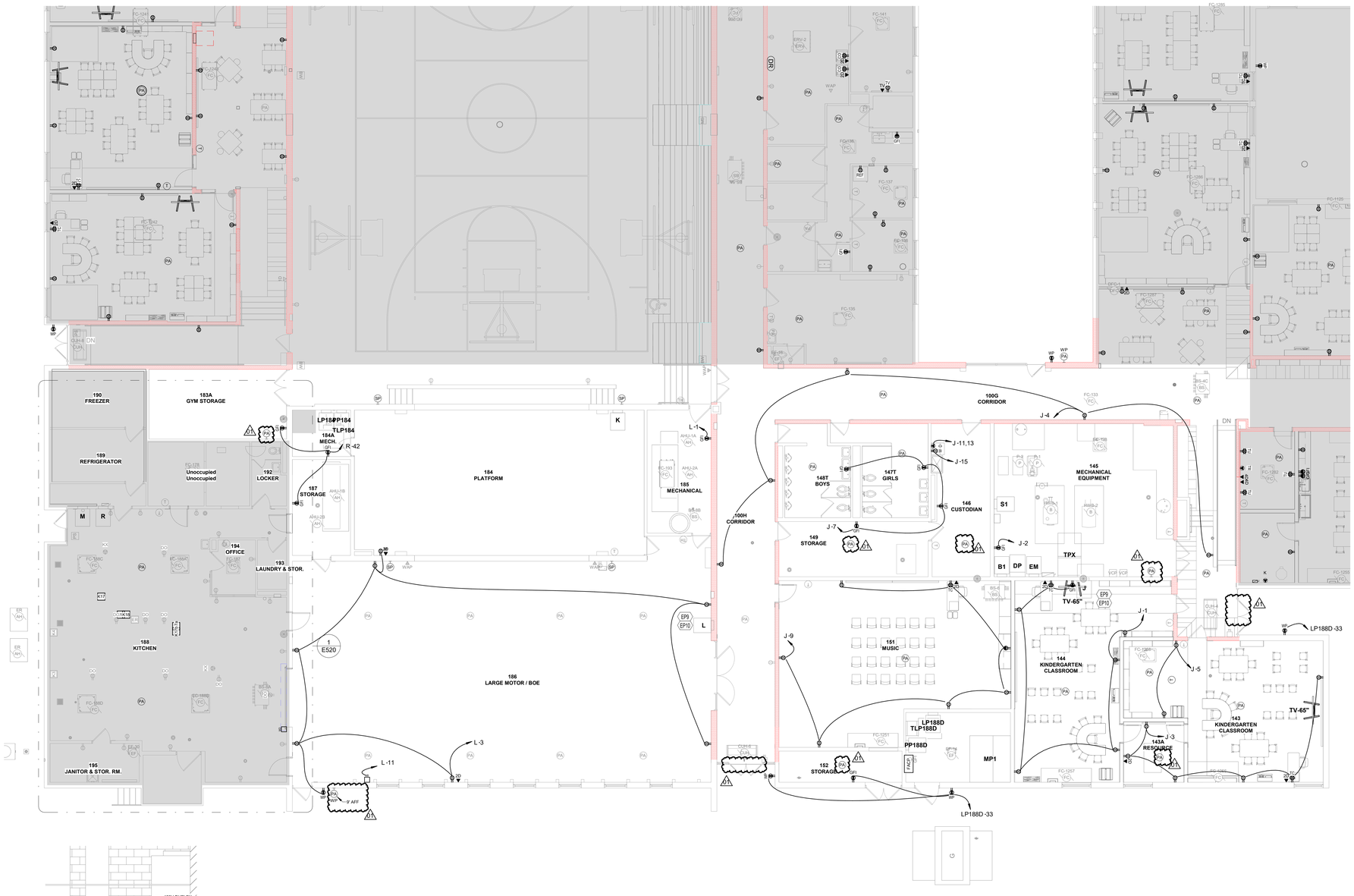
E. ALL 15A AND 20A, 125V AND 250V, NON-LOCKING TYPE RECEPTACLES, THROUGHOUT THE BUILDING SHALL BE TAMPER-RESISTANT WHERE REQUIRED.

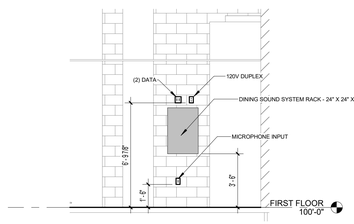
F. EC SHALL COORDINATE FIRE ALARM TO REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION. COORDINATE EXACT REQUIREMENTS IN FEILD.

KEYNOTES

EP9 ADD EQUIPMENT GROUNDING CONDUCTORS TO REUSED BRANCH CIRCUITS AS REQUIRED. VERIFY EXACT REQUIREMENTS IN FIELD.

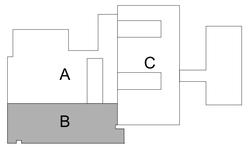
EP10 ADD EQUIPMENT GROUNDING BUS TO EXISTING PANEL AS REQUIRED. PROVIDE EQUIPMENT GROUNDING CONDUCTORS TO SERVING PANEL. REFER TO SINGLE LINE DIAGRAM ON E600. VERIFY EXACT REQUIREMENTS IN FIELD.





2 E201 STAGE SOUND SYSTEM RACK
1/4" = 1'-0"

1 E201 FIRST FLOOR POWER PLAN AREA B - RENO
1/8" = 1'-0"



KEY PLAN
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0'-1" REFERENCE LINE

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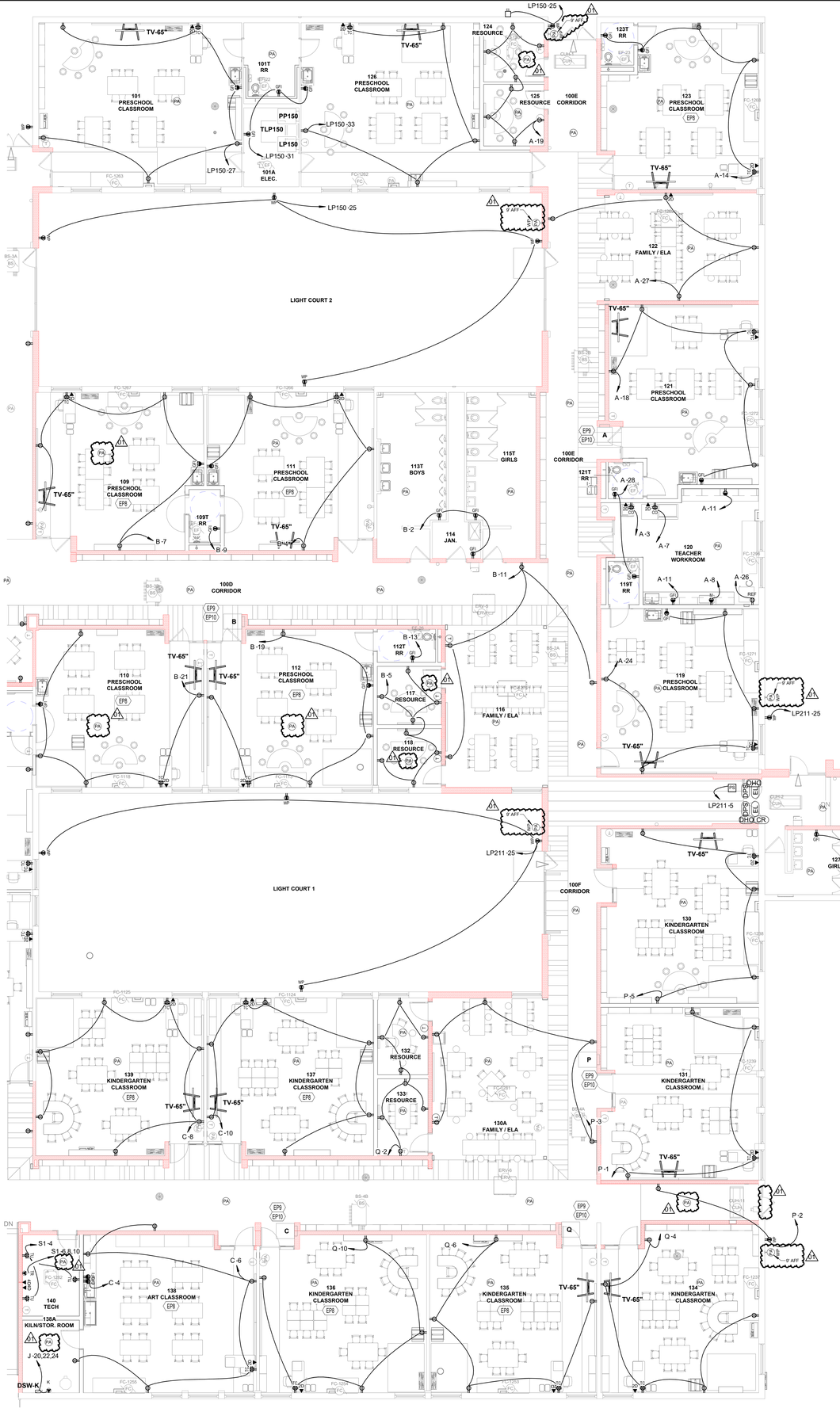
FIRST FLOOR POWER PLAN AREA B

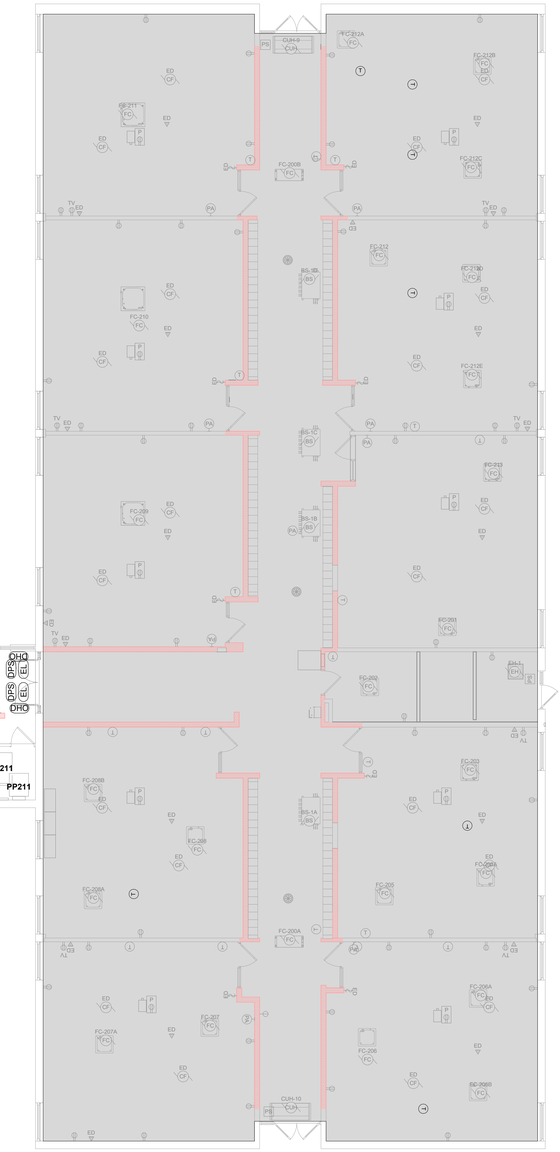
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GENERAL POWER NOTES:

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B. REFER TO E000 SERIES SHEETS FOR STARTER AND DISCONNECT REQUIREMENTS FOR MECHANICAL AND PLUMBING EQUIPMENT.

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F. BURGLAR ALARM TO REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION. COORDINATE EXACT REQUIREMENTS IN FEILD.

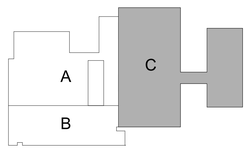
KEYNOTES

EP8 PROVIDE TAMPER RESISTANT RECEPTACLES WITHIN SPACE.

EP9 ADD EQUIPMENT GROUNDING CONDUCTORS TO REUSED BRANCH CIRCUITS AS REQUIRED. VERIFY EXACT REQUIREMENTS IN FIELD.

EP10 ADD EQUIPMENT GROUNDING BUS TO EXISTING PANEL AS REQUIRED. PROVIDE EQUIPMENT GROUNDING CONDUCTORS TO SERVING PANEL. REFER TO SINGLE LINE DIAGRAM ON E600. VERIFY EXACT REQUIREMENTS IN FIELD.

1 E202 FIRST FLOOR POWER PLAN AREA C - RENO
1/8" = 1'-0"



KEY PLAN
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FIRST FLOOR POWER PLAN AREA C

DATE 04-28-23

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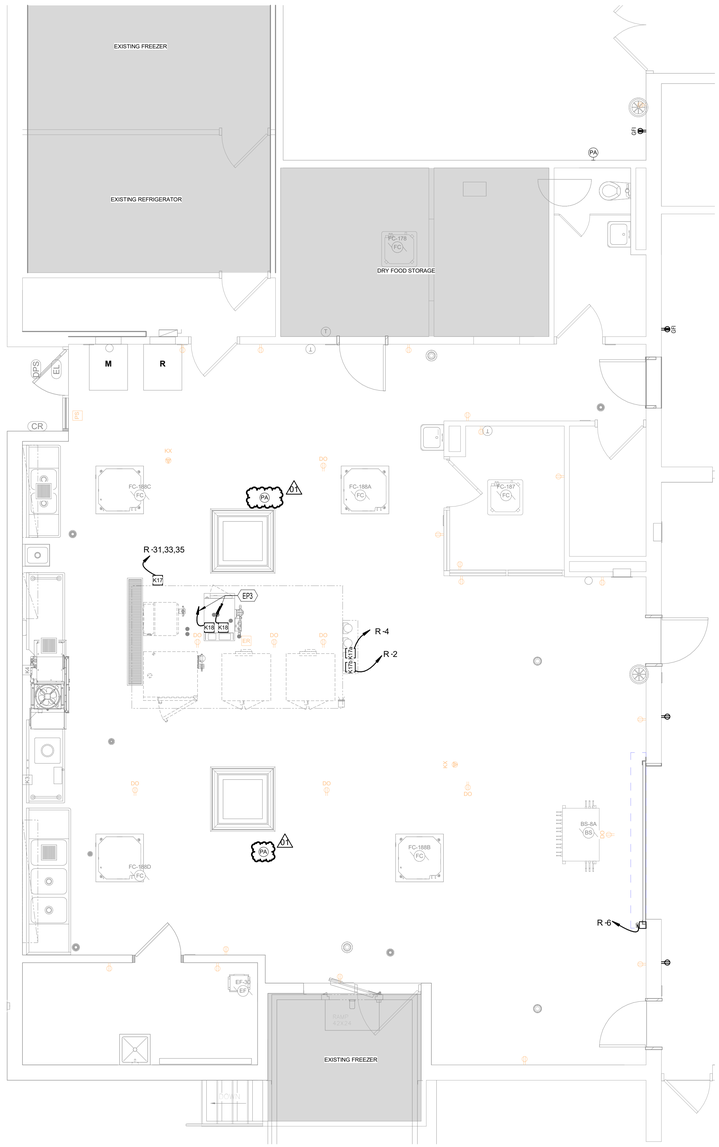
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"0.1" REFERENCE LINE"

ALL SCOPE IDENTIFIED ON THIS SHEET (E520) SHALL BE BID AS ALTERNATE #6.



1 / E520 ENLARGED KITCHEN ELECTRICAL PLAN

1/4" = 1'-0"

GENERAL NOTES - KITCHEN PLAN

A. CONDUITS RUN UNDERGROUND TO APPLIANCES SHALL BE RIGID STEEL CONDUIT OR PVC. THE LAST 90 DEG ELBOW AND THE NIPPLE THROUGH THE FLOOR SHALL BE RIGID STEEL.

B. BOXES USED IN THE KITCHEN SHALL BE HEAVY CAST "FS" STYLE WITH HEAVY CAST COVER PLATES.

C. WHERE LARGER BOXES ARE REQUIRED, A JIC STYLE BOX WITH HINGE, GASKET, AND CLAMPS SHALL BE USED.

D. WHERE CORD DROPS ARE REQUIRED, THE CORD SHALL BE STO TYPE SUSPENDED FROM A CEILING MOUNTED BOX WITH A STRAIN RELIEF CORD CONNECTOR. AN ATTACHMENT BODY AND MATCHING CAP WITH CORD SHALL BE PROVIDED TO THE APPLIANCE. CAP AND BODY SHALL BE TWIST LOCK AND SIZED BY NEMA NUMBER FOR THE CHARACTERISTICS OF THE CIRCUIT.

E. THE EC SHALL PROVIDE AND INSTALL ALL CORDS AND CAPS AT EACH APPLIANCE AS LISTED IN THE EQUIPMENT SCHEDULE OR AS INDICATED ON THE PLANS. THE EC SHALL VERIFY THE RECEPTACLE CONFIGURATION REQUIRED FOR EACH PIECE OF EQUIPMENT AND INSTALL PER THE FOOD SERVICE ROUGH-IN DRAWINGS.

F. WHERE A DIRECT DISCONNECT IS REQUIRED, THE EC SHALL INSTALL AND WIRE FROM WALL BOX OR FS BOX. WIRING IN LIQUIDTIGHT FLEXIBLE CONDUIT.

G. SEE KITCHEN FLOOR PLAN FOR HEXAGON EQUIPMENT NOTES AND FURTHER INFORMATION.

H. ALL 120 VOLT OUTLETS IN THE KITCHEN AREA SHALL BE SERVED BY A GROUND FAULT CIRCUIT BREAKER.

J. ALL FLOOR MOUNTED BOXES SHALL BE SECURED WITH (2) 3/4" RIGID STEEL NIPPLES THROUGH THE FLOOR. THE TOP OF THE BOX SHALL BE LESS THAN 5" FROM FINISHED FLOOR

KEYNOTES

EP3 WIRE TO EXISTING CIRCUIT MADE AVAILABLE BY DEMOLITION.

26-KITCHEN EQUIPMENT SCHEDULE

EQUIPMENT TYPE	RECEPTACLE TYPE	DEVICE TYPE	Load Description	AMPS	VOLTS	POLES	WATTS	Panel	Circuit Number	BRANCH CIRCUIT TYPE	DISCONNECT TYPE	WIRING NOTES
KITCHEN	K18	RECEPTACLE	CONVECTION STEAMER	9.8 A	120 V	1	1176 W	M	3	3W	RECEPTACLE	MOUNT AT 5" AFF
KITCHEN	K18	RECEPTACLE	CONVECTION STEAMER	9.8 A	120 V	1	1176 W	M	5	3W	RECEPTACLE	MOUNT AT 5" AFF
KITCHEN	K17	JUNCTION BOX	HOOD SYSTEM - MAKE UP AIR FAN & HEATER	23.8 A	208 V	3	8574 W	R	31,33,35	4W	DISCONNECT SWITCH	LOCATED ON ROOF. VERIFY EXACT LOCATION WITH KITCHEN EQUIPMENT PROVIDER.
KITCHEN	K17a	JUNCTION BOX	HOOD SYSTEM - LIGHTS	2.0 A	120 V	1	238 W	R	4	3W	MRTS	MOUNT J-BOX ON TOP OF HOOD CANOPY
KITCHEN	K17b	JUNCTION BOX	HOOD SYSTEM - FIRE SUPPRESSION SYSTEM	5.0 A	120 V	1	600 W	R	2	3W	MRTS	MOUNT ON HOOD CANOPY

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