VALLEY VIEW LOCAL SCHOOLS
Germantown, Ohio

February 9, 2026

Addendum No. 1

TRANSMISSION VIA EMAIL
RETURN RECEIPT REQUESTED

TO THE DRAWINGS AND SPECIFICATIONS FOR:

BOARD OFFICE RENOVATION PROJECT

Prepared by:
The Oregon Group Architects
300 S. Patterson Blvd.
Dayton, Ohio 45402
937-228-1511
Kyle Zepernick
kzepernick@oregongroup.com

TO ALL BIDDERS:

This Addendum supplements and amends the original Plans and Specifications and shall be taken into account in preparing proposals and shall become a part of the contract documents.

ADDITIONAL INFORMATION

Item No. 1: Find attached the Pre-Bid Conference Meeting Minutes and Sign-in Sheets.

Item No. 2: A second walk-thru for contractors has been scheduled for Wednesday, February 11th at 1:00 pm. We will meet in the entry vestibule inside the middle entrance on the east façade. This will be the last walk-thru, be certain all interested contractors are in attendance.

TO THE DRAWINGS

Item No. 3: Sheet A3.1, First Floor Finish Schedule – In Room #116 Break Room. Change resinous flooring system to LVT. LVT being provided to allow existing neutralization tank in slab to be covered and removed in the future if necessary. LVT to be Mannington, Color Anchor Collection, Groove, Color: Misty Mountain, 6”x36”. Wall Base to become 4” rubber base. Prep floor and tank cover per manufacturer’s recommendations for LVT installation. See attached revised Drawing Sheet. A3.1.

Item No. 4: Sheet A3.1, Door Schedule – Existing Doors E04 and E05 are to receive new levered door hardware privacy locksets to match proposed door lockset for Door 13. Provide door alterations and trim as necessary to accept new door hardware. See attached revised Drawing Sheet. A3.1.

Item No. 5: Sheet A1.3 Room Signage – Room signs at Toilet Room 117, Restrooms 110 & 111 should read “Unisex” and have both men and women’s pictograms. See attached revised Drawing Sheet. A1.3.

Item No. 6: Sheet A1.4 Firestopping Details were added for any anticipated penetrations through any fire rated floors or walls. See attached revised Drawing Sheet. A1.4.

Item No. 7: Sheet A1.3, New Work Note #2. Add to note that double stud wall is detailed on Detail 2b/A3.1. See attached revised Drawing Sheet. A1.3.

Item No. 8: Sheet A2.2, Interior Elevation Drawings b/A2.2, 4/A2.2, 5/A2.2, 6/A2.2. Remove wording “Alternate #2” from these drawing titles. See attached revised Drawing Sheet. A2.2.

Item No. 9: Sheet A1.2, new Detail a/A1.2 for concrete slab repairs at floor trenches. Repair detail would be applicable to all floor slab trench repairs.

Item No. 10: Sheet A1.3, New Work Note #13, frosted privacy glass film to be 3M Dusted Crystal Glass Finish 7725SE-314 or equal.

Item No. 11: Sheet A3.1, First Floor Finish List, CPT-1. Carpet Tile to be Tarkett, Style ‘Corollary’ 11577. Size to remain 18”X36” and Color to remain ‘Blue Strategy’ 39404.

Item No. 12: Sheet P1.1, Demolition Notes #1 and #2 revised to refer to the floor patching detail in the Architectural drawings.

Item No. 13: Sheet P2.1, Installation Notes #1 and #2 revised to refer to the floor patching detail in the Architectural drawings.

Item No. 14: Sheet P2.1, Installation Note 4 added and applied to the plan view. Reads, “EXISTING MANHOLE COVER AND BASIN TO REMAIN. GENERAL CONTRACTORR TO COVER WITH FLOORING. DRAIN SYSTEM NO LONGER BEING USED FOR CHEMISTRY LABORATORIES AND WILL NOT REQUIRE REGULAR MAINTENANCE AS IT IS NO LONGER PROVIDING NEUTRALIZATION.”

Item No. 15: Sheet M2.1, The return air sound traps have been sized and quantities updated. These were previously shown, but not sized.

Item No. 16: Sheet M2.1, Installation Note 16 added and applied to the plan view. Read “THE SOUTH AND EAST WALL OF THE MECHANICAL ROOM WILL HAVE OPEN STUD BAYS ABOVE THE CEILING LEVEL TO ALLOW FOR AIR MOVEMENT FROM THE AIR PLENUM TO THE MECHANICAL ROOM. TRANSFER DUCT NOT REQUIRED HERE.”

Item No. 17: Sheet M5.1, Ventilation Schedule – AUV-5 revised as the graphics of it resulted in some cells being blacked out. Content otherwise unchanged.

Item No. 18: Sheet M5.1, Control Valve Schedule consolidated to save space on sheet. Now identifies 3-way vs 2-way valves.

Item No. 19: Sheet M5.1, Sequence of Operations added to the drawings.

Item No. 20: Sheet M5.2, “Air Transfer Detail” renamed to “Sound Boot Detail” as it is referred to a sound boot on other sheets.

Item No. 21: Sheet M5.2, On the Return Air Sound Trap Detail, the duct dimension has been revised to read “SEE PLAN.”

END OF ADDENDUM NO. 1

OREGON GROUP ARCHITECTS

The Parsonage House | 300 S. Patterson Blvd. Dayton, OH 45402-2845 | Phone: 937.228.1511 Fax: 937.228.9669 | www.oregongroup.com

Valley View Local Schools Board Office Renovation
PRE-BID MEETING MINUTES

DATE, TIME: February 4, 2026, 1:30 PM
PROJECT NO.: 251431
Meeting Location: Valley View Old High School Campus

Attendee	Company	Phone	Email
Kyle Zepernick	Oregon Group Architects	937-228-1511	kzepernick@oregongroup.com
Valorie Hill	Valley View Local Schools		valorie.hill@valleyview.K12.oh.us
Erick Depew	Valley View Local Schools		erick.depew@valleyview.K12.oh.us

*See attached sign-in sheets for complete list of attendees.

1. This is a publicly bid project. The Instructions to Bidders, Sample Contract, General Conditions, Bid Guaranty & Contract Bond Forms, and Bid Form are included in front end specifications. Contractors to ensure they are familiar with these documents.

2. Channel of Communications shall be through Oregon Group Architects and will be forwarded to the appropriate party for response. Contact information is in the specifications.

3. All questions should be submitted in writing to Oregon Group Architects, preferably via email. Deadline for bidding questions is Thursday, February 5, 2026, 5:00 pm.

4. A walk-thru tour will be conducted after this meeting. No additional visits are scheduled at this time.

5. Bid Due Date – Wednesday, February 18, 2026, 2:00 pm at Valley View Local Schools Board of Education Offices, 59 Peffley Street, Germantown, OH 45327.
    a. Bids will be opened and read aloud at that time. Please mark clearly on exterior of envelope “Valley View LSD – Board Office Renovation Project Bid”. It is strongly recommended that bids be hand delivered.
    b. Any Bid received after 2:00 PM will not be considered responsive.
    c. No faxed or emailed bids will be accepted.
    d. Bid envelope MUST contain 1 original and 1 copy of the completed Bid Form, the Bid Guaranty, if applicable a Contract Bond, and Contractor’s Qualification Statement.
    e. Bid Guaranty Form must be for the full amount of the bid, including all ADD alternates (do not include deduct alternates), or the line left blank. If the line is left blank, the penal sum will be the full amount of the bid, including add alternates. A percentage is NOT acceptable and the bid will be rejected. If Bidder wishes, a certified check, cashier’s check or irrevocable letter of credit in the amount of 10% of the bid plus all ADD alternates would be acceptable. AIA or EJCDC Bid Bond forms are not acceptable.

6. This project does NOT require Prevailing Wages to be paid.

7. Valley View Local Schools is tax exempt.

8. Project Summary
    a. Kyle Zepernick, Project Architect provided a summary of the project.
        1. Board Office Renovation.

a. Work consists of renovation of an office suite in the old Valley View High School building. Work includes reorganization of office spaces and new plumbing, mechanical, electrical, security and IT systems.
b. The office suite space will be vacant during renovation work. Other areas of the building will remain occupied, including a Pre-school program and a YMCA before school and after school program. Contractors will need to be aware of and sensitive to children being in the building. See working hours and noisy and odorous work restrictions in Section 01 10 00 Summary.
c. School year ends at the end of May. Valley View Pre-School program does not operate during the summer break months. The YMCA before school and after school program MAY operate in the summer months.
d. Estimated construction cost for the project $550,000.
e. Improvements are anticipated to be completed between March 2026 and August 3, 2026.
f. Project is to be Substantially Complete by August 3, 2026. Staff will move in that week.
g. Bi-weekly coordination and progress meetings will be required. All contractors conducting work on site will be required to attend meetings.
h. Bid Documents are available thru Arc Document Solutions Dayton 937-277-7930.
i. No Alternates included in project.
j. Building Permit has been applied for through the Montgomery County Building Department. Building Permit application fee has been paid for. Contractors shall be responsible for all required permit fees.
k. Contractors shall pay all aid-to-construction fees associated with the project.
l. Substitution requests are required to be submitted by a bidding contractor 10 days prior to the Bid Opening date. Falls on a Sunday so deadline this Friday, Feb. 6th. Substitution Form is in specs.
m. Critical Path Method schedule is required for this project.
n. Addendum will be released prior to 72 hours before bid opening.
o. No smoking is permitted in the building or on the property. This will be strictly enforced and workers in violation will be removed from site.
p. See Aerial Photo in Drawings for location of assigned Contractor's parking spaces and laydown area. Exact area to be coordinated with the Owner.

9. Nothing presented in this Pre-bid Meeting is intended to conflict with the Contract Documents. Where conflicts may occur, Contract Documents take precedence. Verbal interpretations of the Contract documents, and any statements made at the Pre-Bid meeting by the A/E, the Owner, or its representatives will not be binding. Any and all changes to the Contract Documents will be made by written addendum.

10. Site Review – tour of the areas of work will follow this meeting. Keep in mind this is an occupied building and children are present. Please do not include any staff or children in photos. Please keep noise to a minimum.

The above information constitutes our understanding of the activities and events of this meeting. If in your opinion, additions or modifications are required please advise the author in writing immediately.

Kyle Zepernick
OREGON GROUP ARCHITECTS, INC.

PRE-BID MEETING
SIGN IN SHEET

PROJECT: **Valley View LSD**
Board of Education Office Renovation
February 4, 2026

Name	Company	Phone	Email
Marcus Horner	Arcon Builders	937-692-6330	marcushorner@arconbuilders.com
Clay Aikman	AKA Construction	937-902-0031	Clay@aka-construction.com
KIP MYERS	BRUMBAUGH	937-692-5107	KIP@BRUMBAUGHCONSTRUCTION.COM
Erick Depew	Valley View	937-903-7622	
VALORIE HILL	VALLEY VIEW	937-623-9215	

PRE-BID MEETING
SIGN IN SHEET

PROJECT: Valley View LSD
Board of Education Office Renovation
February 4, 2026

Name	Company	Phone	Email
ALLISON RODRIGUEZ	LEVEL MB	937-671-1436	ARODRIGUEZ@LEVELMB.COM
Brian Johnson	Quality Comaccial Floors	937-474-0380	Quality Comaccial Floors @ gmail.com
Patrick Kohlriesar	Vancon General Contractors	937-890-8400	Patrick @ Vancongc.com

owner:

VALLEY VIEW LOCAL SCHOOLS

architect:

OREGON GROUP ARCHITECTS
ARCHITECTURE INTERIORS CODE CONSULTANTS

mechanical engineer:

TRI-TECH
Built On Integrity
ENGINEERING AND PROJECT MANAGEMENT

renovation for:
valley view local schools
6027 farmersville pike
germantown, ohio 45327

general notes

1. THE GENERAL NOTES CONTAINED HEREIN ARE PART OF THE PLANS AND SPECIFICATIONS AND ARE TO BE COMPLIED WITH IN ALL RESPECTS. MORE RESTRICTIVE NOTES SPECIFIED ELSWHERE ARE TO TAKE PRECEDENCE OVER THOSE LISTED BELOW.
2. THE CONTRACT DOCUMENTS INCLUDE THE WORKING DRAWINGS, ADDENDA, MODIFICATIONS, GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT AND SPECIFICATIONS.
3. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL CODES AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION. SUCH CODES AND REGULATIONS SHALL HAVE PRECEDENCE OVER THAT WHICH IS INDICATED ON THE CONSTRUCTION DOCUMENTS. IN CASES OF DISCREPANCIES, OMISSIONS, CHANGES IN THE CODES, OR CODE INTERPRETATIONS BY CODE OFFICIALS, WHICH CAUSE A CHANGE IN THE WORK, NOTIFY ARCHITECT PRIOR TO PROCEEDING WITH THAT PORTION OF THE WORK AFFECTED BY THE CHANGE. CONTRACTOR SHALL PAY AND OBTAIN BUILDING PERMITS AND ALL NECESSARY APPROVALS. CONTRACTOR SHALL OBTAIN ALL APPROVALS AND PERMITS FOR CONSTRUCTION FROM THE AUTHORITY HAVING JURISDICTION, PRIOR TO COMMENCEMENT OF WORK, AT HIS OWN EXPENSE.
4. THE GENERAL CONTRACTOR SHALL PERFORM DEMOLITION WORK AS REQUIRED TO COMPLETE CONSTRUCTION DESCRIBED IN THE DOCUMENTS. BEFORE UNDERTAKING DEMOLITION, ALL SERVICES ARE TO BE MADE SAFE FOR DEMOLITION.
5. CONTRACTOR SHALL PROPERLY CLEAN UP DURING PROCESS OF WORK. CONTRACTOR, UPON COMPLETION OF WORK, SHALL LEAVE PREMISES CLEAN, NEAT AND ORDERLY.
6. ALL WORK TO BE EXECUTED TO FULFILL THE INTENDED DESIGN ACCORDING TO ACCEPTED INDUSTRY STANDARDS FOR THEIR FULL FUNCTIONING AND OPERATION.
7. IF CONFLICTS OCCUR BETWEEN DRAWINGS AND SPECIFICATIONS OR PRODUCTS, PROCEDURES, ETC., THE MORE STRINGENT DETAIL AND HIGHER QUALITY SHALL BE CONSIDERED THE INTENT OF THE CONTRACT DOCUMENTS. ARCHITECTS CONFORMATION IS REQUIRED.
8. THESE DOCUMENTS HAVE BEEN COMPILED WITH THE BEST AVAILABLE INFORMATION AND ARE NOT INTENDED TO LIMIT THE SCOPE OF WORK. THE CONTRACTOR MAY ENCOUNTER HIDDEN OR COVERED CONDITIONS, NOT INDICATED IN THE DOCUMENTS, REQUIRING ADDITIONAL WORK FOR THE COMPLETION OF THIS CONTRACT. IT WILL BE ASSUMED THAT THE CONTRACTOR HAS INSPECTED THE SITE PRIOR TO BIDDING AND VERIFIED ALL CONDITIONS, DIMENSIONS, AND OTHER INFORMATION HEREIN SUPPLIED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY UNEXPECTED FIELD CONDITIONS OR DISCREPANCIES PRIOR TO BEGINNING THEIR WORK.
9. ALL DIMENSIONS AND LAYOUTS SHALL BE FIELD COORDINATED BY THE CONTRACTOR WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS, ALL SHOP DRAWINGS AND EXISTING CONDITIONS. ANY INCONSISTENCIES SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL RESOLVE AT NO COST TO THE OWNER AND TO THE SATISFACTION OF THE ARCHITECT, ANY AND ALL CONFLICTS BETWEEN THE WORK OF THE VARIOUS TRADES ARISING FROM ERRORS IN COORDINATION BETWEEN TRADES.
10. THE CONTRACTOR SHALL NOT SCALE DRAWINGS.
11. THE DRAWINGS AND SPECIFICATIONS, INCLUDING DRAWINGS PREPARED BY SPECIFIC ENGINEERING DISCIPLINES (SUCH AS CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, ETC.) ARE COMPLEMENTARY. ITEMS SHOWN IN ANY ONE LOCATION IN THE DRAWINGS SHALL BE CONSIDERED TO BE REQUIREMENTS OF THE CONTRACT FOR CONSTRUCTION. IN THE EVENT OF AN INCONSISTENCY BETWEEN THE DRAWINGS AND SPECIFICATIONS, OR WITHIN EITHER DOCUMENT, THE CONTRACTOR SHALL SEEK CLARIFICATION OR INTERPRETATION FROM THE ARCHITECT PRIOR TO BIDDING. WHERE INCONSISTENCIES ARE NOT CLARIFIED PRIOR TO BIDDING, AND WHERE THE ACTUAL SOLUTION OR INTENT CANNOT BE REASONABLY INFERRED, THE CONTRACTOR SHALL PROVIDE THE BETTER QUALITY OR GREATER QUANTITY OF WORK.
12. THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AND VERIFY FIELD CONDITIONS AND SHALL CAREFULLY COMPARE SUCH FIELD MEASUREMENTS, CONDITIONS, AND OTHER INFORMATION KNOWN TO THE CONTRACTOR WITH THE CONTRACT DOCUMENTS BEFORE COMMENCING ACTIVITIES. ERRORS, INCONSISTENCIES, OR OMISSIONS DISCOVERED SHALL BE REPORTED TO THE ARCHITECT AT ONCE. NO ALLOWANCE WILL BE MADE ON BEHALF OF THE CONTRACTOR OR SUBCONTRACTORS FOR FAILURE TO VISIT THE SITE. USE OF THE WORD "VERIFY" POINTS OUT A SITUATION WHICH MUST BE CONFIRMED PRIOR TO PROCEEDING WITH THE WORK, FABRICATION OF EQUIPMENT, OR ORDERING MATERIAL. NOTIFY THE ARCHITECT OF ANY DISCREPANCY DISCOVERED.
13. ALL SUB-SURFACES SHALL BE PROPERLY PREPARED BEFORE APPLICATION OF FINISHES. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR SUBSTRATE CONDITIONS WHERE FINISHES ARE APPLIED.
14. BUILDING CONSTRUCTION INFILL OF WALLS, CEILINGS, ETC. SHALL MATCH EXISTING ADJACENT MATERIALS AND FINISHES UNLESS NOTED OTHERWISE. VOIDS WHERE EXISTING EQUIPMENT OR SYSTEMS WERE REMOVED SHALL BE INFILLED TO MATCH ADJACENT CONSTRUCTION, UNLESS NOTED OTHERWISE.
15. BLOCKING SHALL BE PROVIDED IN WALLS WHERE MOUNTING ANCHORAGE WILL BE REQUIRED. LOCATIONS INCLUDE, BUT ARE NOT LIMITED TO, OPEN AND CLOSED SHELVING, CABINETRY, COUNTERS, TOILET ACCESSORIES AND TRIM. ALL WOOD BLOCKING SHALL BE FIRE RETARDANT TREATED AS REQUIRED BY CODE AND FIRESTOPPED.
16. PENETRATIONS OF PIPES, TUBES, CONDUIT, WIRES, CABLES, DUCTS, VENTS, CABINETS, LIGHTING, AND OTHER FIXTURES THROUGH FIRE RATED ASSEMBLIES SHALL BE INSTALLED AND PROTECTED TO MAINTAIN FIRE RATING.
17. CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR ALL FINISHED FLOOR SURFACES, EXISTING OR NEW INCLUDING BUT NOT LIMITED TO, CERAMIC TILE, VINYL TILE, CONCRETE, ETC., THROUGHOUT THE CONSTRUCTION PERIOD.
18. ATTACHMENTS, CONNECTIONS OR FASTENINGS OF ANY NATURE ARE TO BE PROPERLY AND PERMANENTLY SECURED IN CONFORMANCE WITH BEST PRACTICE AND THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THEM ACCORDINGLY TO SPECIFIC CONDITIONS. THE DRAWINGS PROVIDED SHOW ONLY SPECIAL CONDITIONS TO ASSIST THE CONTRACTOR. THE DRAWINGS DO NOT ILLUSTRATE EVERY SUCH DETAIL.
19. IF SPRINKLER SYSTEM WORK IS INCLUDED, THE WORK SHALL BE DESIGN/BUILD FOR THE SPRINKLER SYSTEM. CONTRACTORS ARE REQUIRED TO FINALIZE THE DESIGN OF THEIR RESPECTIVE SYSTEMS FOR FULL AND PROPER OPERATIONS ACCORDING TO THE APPLICABLE LAWS AND SPECIFICATIONS, IN ORDER TO SATISFY INTENDED FUNCTION AND DESIGN OF MECHANICAL AND ELECTRICAL DRAWINGS PROVIDED HERE. PROVIDE AND INSTALL ALL REQUIRED ELEMENTS OF THESE SYSTEMS FOR FULL OPERATION ACCORDING TO THE NOTES HEREIN AND IN ACCORDANCE WITH THE APPLICABLE CODES. PROVIDE DESIGN LAYOUTS AND EQUIPMENT SUBMITTALS TO ARCHITECT AND OWNER FOR REVIEW BEFORE ORDERING OR INSTALLATION. SYSTEMS DESIGN DRAWINGS, MANUFACTURERS PRODUCT SHEETS AND SHOP DRAWINGS FOR ALL REQUIRED SYSTEMS AND PRODUCTS ARE TO BE PROVIDED FOR ARCHITECTS AND OWNER'S REVIEW. CONTRACTOR SHALL SUBMIT TO AUTHORITY HAVING JURISDICTION AS NECESSARY FOR APPLICABLE PERMITS.
20. DRAWINGS ARE PREPARED USING DIMENSIONS AND PRODUCT CONFIGURATIONS OR DETAILS OF SPECIFIC MANUFACTURERS. DIMENSIONS AND DETAILS FOR SPECIFIC PRODUCTS MAY CHANGE BEFORE THEY ARE ACTUALLY INCORPORATED INTO THE WORK, AND PRODUCTS BY OTHER MANUFACTURERS ARE ALSO ACCEPTABLE. THEREFORE, ACTUAL INSTALLATION DETAILS AND DIMENSIONS MAY DIFFER FROM THOSE SHOWN. CONTRACTOR SHALL VERIFY INSTALLATION REQUIREMENTS FOR ALL PRODUCTS TO BE INCORPORATED IN THE WORK (INCLUDING THICKNESSES FOR RECESSED OR SEMI-RECESSED PRODUCTS), AND IS RESPONSIBLE FOR ACCOMMODATING AND COORDINATING CHANGES TO OTHER MATERIALS OR PRODUCTS THAT ARE NECESSARY BECAUSE OF THESE DIFFERENCES.
21. THE CONTRACTOR SHALL CONTINUOUSLY CHECK ARCHITECTURAL AND STRUCTURAL CLEARANCES FOR ACCESSIBILITY OF EQUIPMENT, MECHANICAL, AND ELECTRICAL SYSTEMS. NO ALLOWANCE OF ANY KIND WILL BE MADE FOR THE CONTRACTOR'S NEGLIGENCE TO FORESEE MEANS OF INSTALLING EQUIPMENT INTO POSITION INSIDE STRUCTURES.
22. WITH REFERENCE TO CEILINGS, CONTRACTOR SHALL COORDINATE WITH ALL TRADES INVOLVED AND PREPARE COMPOSITE SHOP DRAWINGS TO ENSURE CLEARANCES FOR FIXTURES, DUCTS, CEILINGS, ETC. NECESSARY TO MAINTAIN THE SPECIFIED FINISH CEILING HEIGHT ABOVE THE FINISH FLOOR AS NOTED ON THE DRAWINGS. CLARIFY CONFLICTS WITH ARCHITECT.
23. NO WORK DEFECTIVE IN CONSTRUCTION OR QUALITY OR DEFICIENT IN ANY REQUIREMENTS OF DRAWINGS AND SPECIFICATIONS WILL BE ACCEPTABLE IN CONSEQUENCE OF OWNER'S OR ARCHITECT'S FAILURE TO DISCOVER OR TO POINT OUT DEFECTS OR DEFICIENCIES DURING CONSTRUCTION, NOR WILL PRESENCE OF INSPECTORS ON SITE RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR SECURING QUALITY AND PROGRESS OF WORK AS REQUIRED BY CONTRACT. DEFECTIVE WORK REVEALED WITHIN REQUIRED TIME GUARANTEES SHALL BE REPLACED BY WORK CONFORMING WITH INTENT OF CONTRACT. NO PAYMENT, WHETHER PARTIAL OR FINAL, SHALL BE CONSTRUED AS AN ACCEPTANCE OF DEFECTIVE WORK OR IMPROPER MATERIALS.
24. MATERIALS AND WORKMANSHIP SPECIFIED BY REFERENCE TO NUMBER SYMBOL, OR TITLE OF A SPECIFICATION SUCH AS COMMERCIAL STANDARDS, FEDERAL SPECIFICATIONS, TRADE ASSOCIATION STANDARD, OR OTHER SIMILAR STANDARD, SHALL COMPLY WITH REQUIREMENTS IN LATEST EDITION OR REVISION THEREOF AND WITH ANY AMENDMENT OR SUPPLEMENT THERETO IN EFFECT ON DATE OF ORIGIN OF THIS PROJECT'S CONTRACT DOCUMENTS. SUCH REFERENCED STANDARD SHALL BECOME A PART OF THE CONTRACT DOCUMENTS AS THOUGH PRINTED HEREIN.
25. CONTRACTOR SHALL WAIVE "COMMON PRACTICE" AND "COMMON USAGE" AS CONSTRUCTION CRITERIA WHEREVER DETAILS AND CONTRACT DOCUMENTS OR GOVERNING CODES, ORDINANCES, ETC., REQUIRE GREATER QUANTITY OR BETTER QUALITY THAN COMMON PRACTICE OR COMMON USAGE WOULD REQUIRE.
26. CONTRACTOR SHALL ORDER AND SCHEDULE DELIVERY OF MATERIALS IN AMPLE TIME TO AVOID DELAYS IN CONSTRUCTION. IF AN ITEM IS FOUND TO BE UNAVAILABLE, CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY TO ALLOW THE ARCHITECT A REASONABLE AMOUNT OF TIME TO SELECT A SUITABLE SUBSTITUTE.
27. IF AT ANY TIME BEFORE COMMENCEMENT OF WORK, OR DURING PROGRESS THEREOF, CONTRACTOR'S METHODS, EQUIPMENT OR APPLIANCES ARE INEFFICIENT OR INAPPROPRIATE FOR SECURING QUALITY OF WORK OR RATE OF PROGRESS INTENDED BY CONTRACT DOCUMENTS, OWNERS MAY ORDER CONTRACTOR TO IMPROVE THEIR QUALITY OR INCREASE THEIR EFFICIENCY. THIS WILL NOT RELIEVE CONTRACTOR OR HIS SURETIES FROM THEIR OBLIGATIONS TO SECURE QUALITY OF WORK AND RATE OR PROGRESS SPECIFIED IN CONTRACT.
28. THE GENERAL CONTRACTOR SHALL PROVIDE ALL ACCESS PANELS (FIRE RATED AND SIZED AS REQUIRED), AT WALLS AND CEILINGS WHERE MECHANICAL, PLUMBING OR ELECTRICAL ACCESS IS NECESSARY PER CODE, OR AS REQUIRED FOR EQUIPMENT ACCESS AND MAINTENANCE. ARCHITECT TO APPROVE LOCATION AND SIZE OF ALL ACCESS PANELS NOT SHOWN ON DRAWINGS.

applicable codes

6027 FARMERSVILLE-GERMANTOWN RD.
GERMANTOWN, OH 45327

PROJECT INCLUDES THE RENOVATION OF 2,595 SF OF OFFICE SPACE.

2024 OHIO EXISTING BUILDING CODE
2018 ASHRAE 90.1 ENERGY STANDARD FOR BUILDINGS
OR 2021 INTERNATIONAL ENERGY CONSERVATION CODE
2017 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
2024 OHIO MECHANICAL CODE
2024 OHIO PLUMBING CODE
2017 OHIO FIRE CODE

OHIO EXISTING BUILDING CODE COMPLIANCE METHOD:
PRESCRIPTIVE COMPLIANCE METHOD OEBC 301.3.1

ALL COMPLIANCE METHODS SHALL COMPLY WITH SECTIONS 302 THRU 309.

CONSTRUCTION TYPE: IIIB
OCCUPANT LOAD: 2595SF / 150 = 18 PERSONS

BUILDING IS NOT EQUIPPED THROUGHOUT WITH AN AUTOMATIC FIRE SUPPRESSION SYSTEM.

BUILDING SQUARE FOOTAGE: 13,525 SF
AREA OF WORK SQUARE FOOTAGE: 2,595 SF

USE GROUP: E
USE GROUP FOR THIS SPACE: B

NO CHANGE IN BUILDING HEIGHT OR AREAS.

FIRE RESISTANCE RATINGS:
- STRUCTURAL FRAME - 0
- BEARING EXTERIOR WALLS - 0
- BEARING INTERIOR WALLS - 0
- NON-BEARING PARTITIONS - 0
- FLOOR CONSTRUCTION - 0
- ROOF CONSTRUCTION - 0

SPECIAL INSPECTIONS: N/A

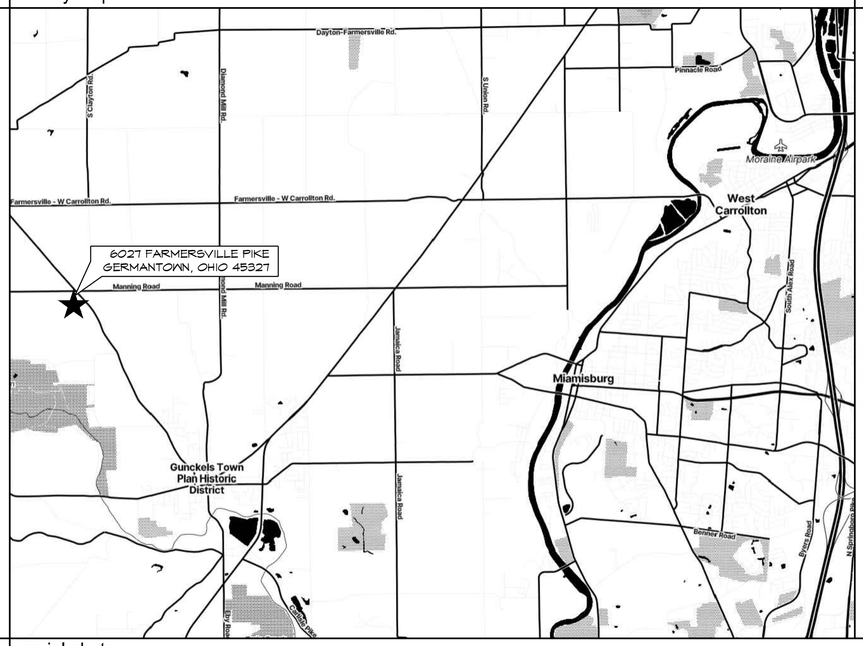
accessibility requirements

CODE: 2017 ICC A117.1
ALL PRODUCTS, MATERIALS AND INSTALLATIONS SHALL MEET ADA REQUIREMENTS FOR ACCESSIBILITY IN ACCORDANCE WITH ANSI A117.1 ALL PUBLIC ACCOMMODATIONS SHALL COMPLY WITH ICC A117.1-2017.
CONTRACTOR SHALL VERIFY THAT PRODUCTS PROVIDED ARE IN FULL COMPLIANCE WITH THE REQUIREMENTS FOR THE PRODUCT AND THE INSTALLATION.

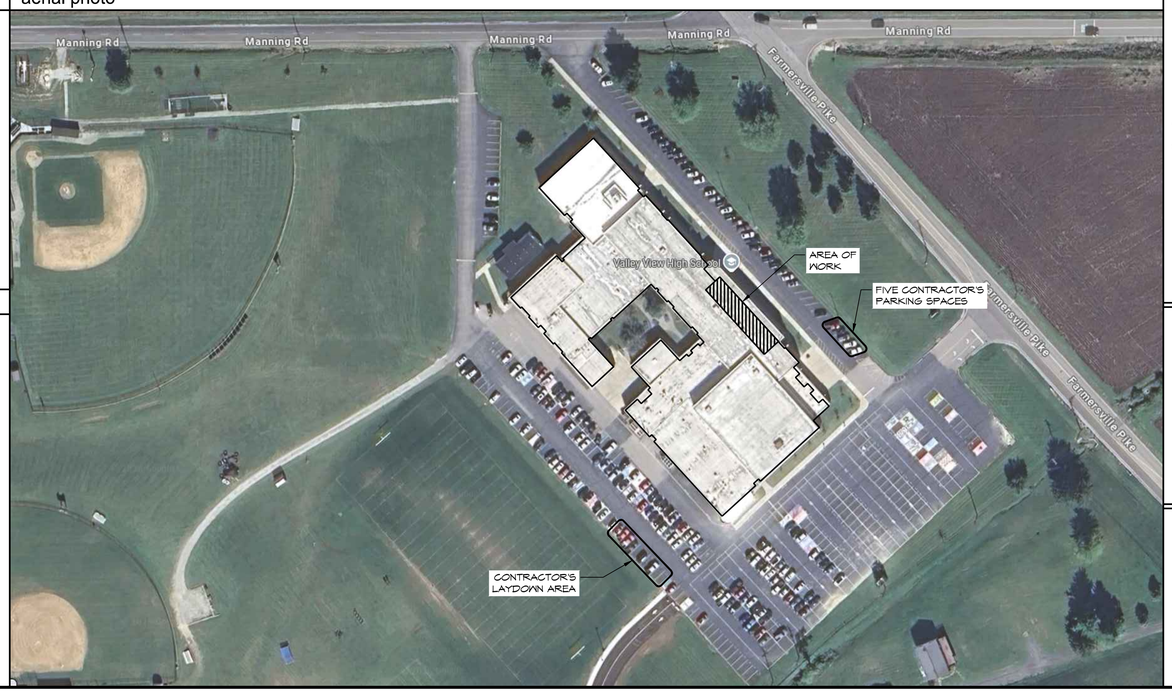
abbreviations

AFF	ABOVE FINISH FLOOR
ATC	ACOUSTICAL TILE CEILING
BLKG	BLOCKING
BRG	BEARING
CI	CAST IRON
CIP	CAST IN PLACE
CIR	CIRCUIT
CL	CENTERLINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CPT	CARPET
CT	CERAMIC TILE
DF	DRINKING FOUNTAIN
DIA	DIAMETER
FDN	FOUNDATION
FIN	FINISH
FF	FINISH FLOOR
FTG	FOOTING
GA	GAUGE
GB	GYPSUM BOARD
HM	HOLLOW METAL
MO	MASONRY OPENING
MTD	MOUNTED
NIC	NOT IN CONTRACT
OC	ON CENTER
PL. LAM.	PLASTIC LAMINATE
PTD	PAINTED
RO	ROUGH OPENING
SM	SHEET METAL
SPM	SINGLE PLY MEMBRANE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

vicinity map



aerial photo



drawing index

issued
BID DOCUMENTS
revised

STATE OF OHIO
KYLE D. ZEPERNICK
No. 10884
REGISTERED ARCHITECT
Kyle Zepernick, License #10884
Expiration Date 12-31-27

OREGON GROUP ARCHITECTS
ARCHITECTURE INTERIORS CODE CONSULTANTS
THE PARSONAGE HOUSE
300 S. PATTERSON BLVD. DAYTON, OHIO 45402
937-228-1551 F 937-228-9669

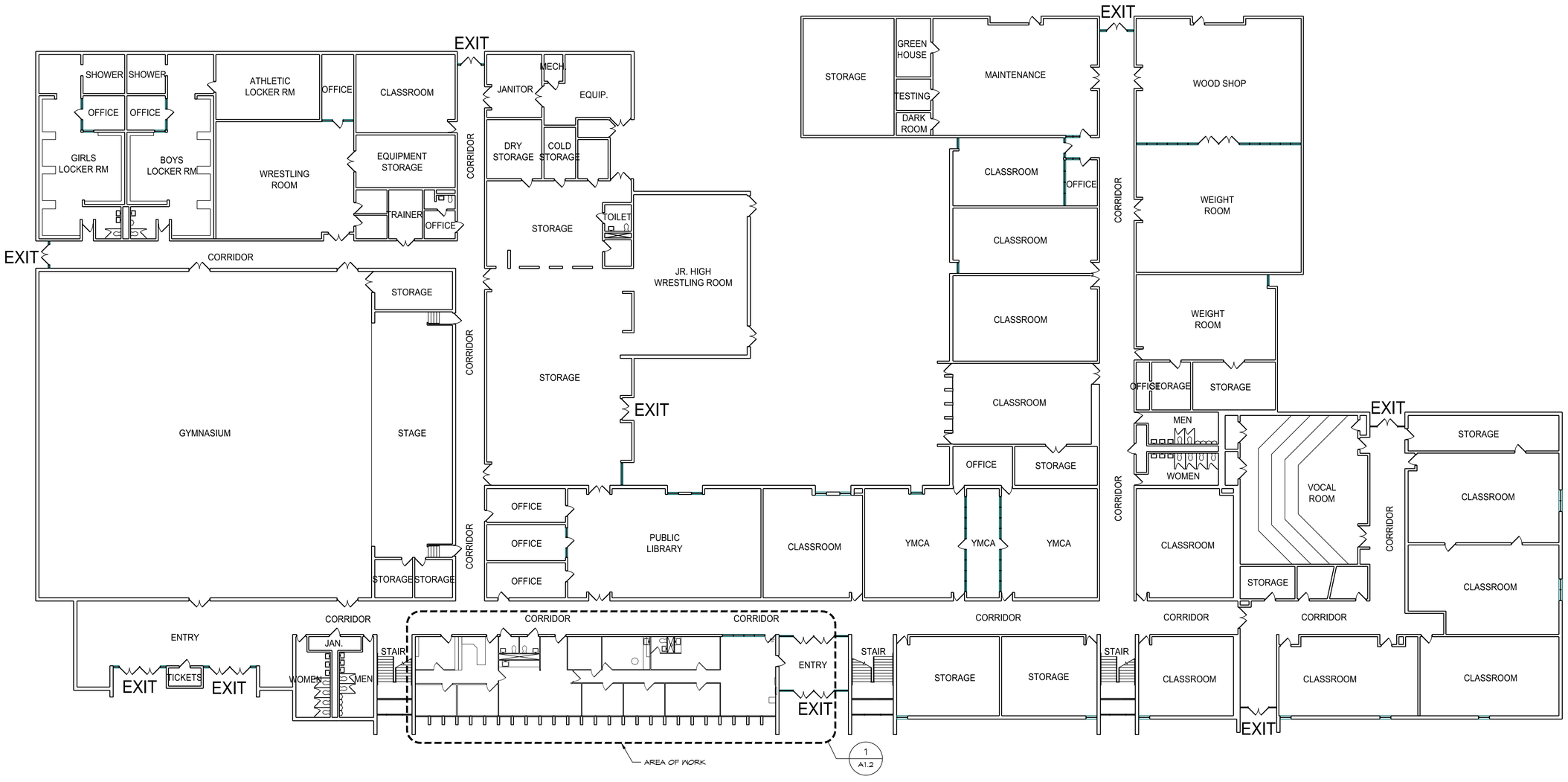
renovation for:
valley view local schools
6027 farmersville pike
germantown, ohio 45327

title sheet

project number
251431
date
1/23/2026
drawn by
RMT
checked by
KDZ

sheet
T1.1

DRAWING NAME: S:\JOBS\251431 VALLEY VIEW SCHOOLS BOARD BASEBALL SOFTBALL\T1.1 TITLE SHEET.DWG
PLOTTED BY: RYAN TRAXLER PLOT DATE: 2/3/2026 12:46 PM
LAST SAVED BY: RTRAX 1/30/2026 1:36 PM



1 first floor plan

1/16" = 1'-0"

issued

BID DOCUMENTS

revised

STATE OF OHIO
KYLE D. ZEPERNICK
No. 10884
REGISTERED ARCHITECT

Kyle Zepernick, License #10884
Expiration Date 12-31-27

OREGON GROUP ARCHITECTS
ARCHITECTURE INTERIORS CODE CONSULTANTS
THE PARSONAGE HOUSE
300 S. PATTERSON BLVD. DAYTON, OHIO 45402
937-228-1515 F 937-228-9569

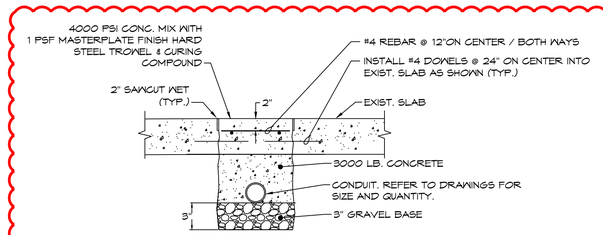
renovation for:
valley view local schools
6027 farmersville pike
germantown, ohio 45327

first floor plan - existing conditions

project number
251431
date
1/23/2026
drawn by
RMT
checked by
KDZ

sheet
A1.1

DRAWING NAME: S:\JOBS\251431 | VALLEY VIEW SCHOOLS BOARD BASEBALL SOFTBALL\A1.1 FIRST FLOOR PLAN - EXISTING CONDITIONS.DWG
PLOTTED BY: RYAN TRAXLER PLOT DATE: 2/3/2026 12:46 PM
LAST SAVED BY: RTRAX 1/30/2026 1:34 PM



1

GENERAL NOTES:

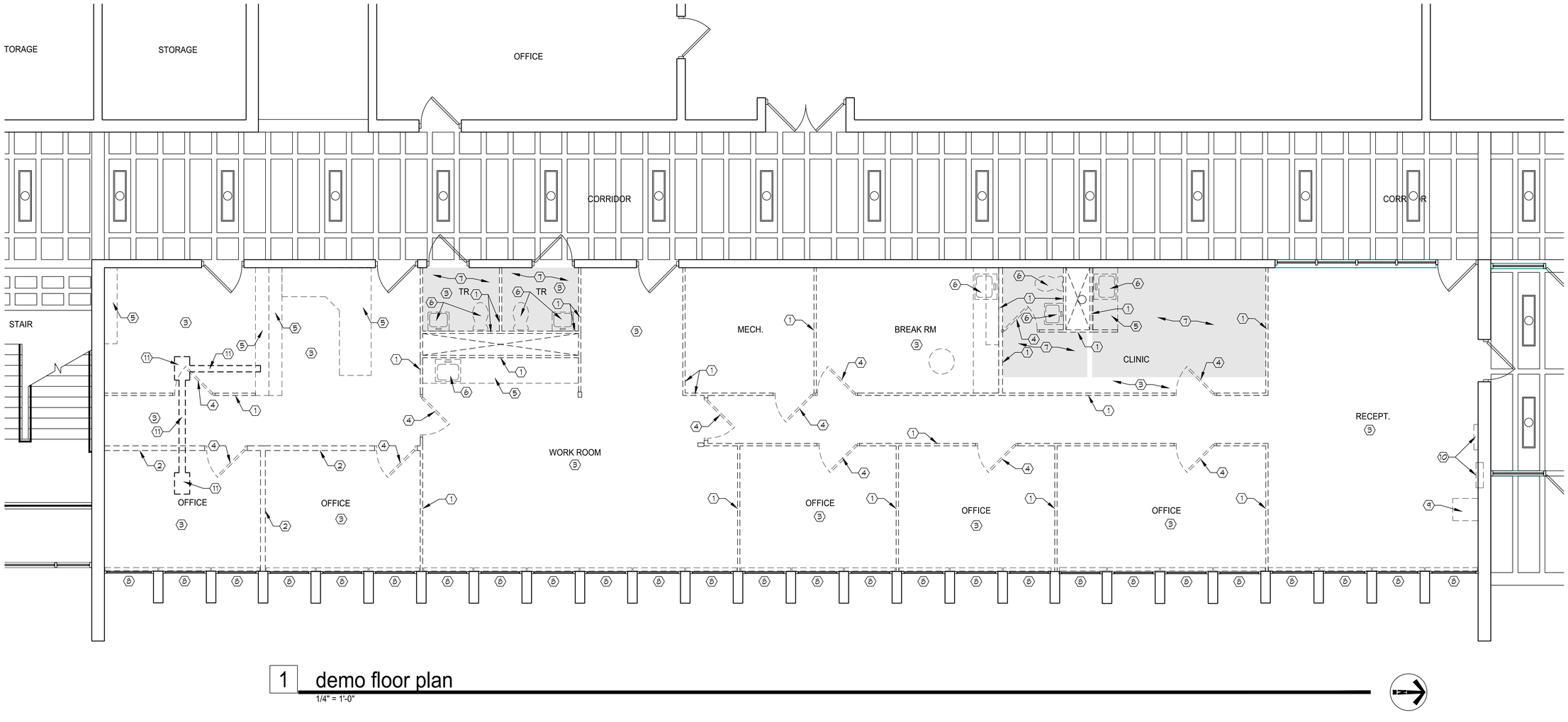
A. PROVIDE A VAPOR VAPOR ALONG LENGTH OF CONDUIT.
B. PROVIDE PULL STRING IN CONDUIT.

a typical saw cut detail

scale = none

demo notes

1. REMOVE EXISTING MODULAR WALLS COMPLETE.
2. REMOVE EXISTING STUD AND DRYWALL PARTITION COMPLETE.
3. REMOVE EXISTING FLOORING AND WALL BASE ENTIRE WORK AREAS.
4. REMOVE EXISTING DOOR AND FRAME COMPLETE.
5. REMOVE EXISTING CASEWORK AND ASSOCIATED ACCESSORIES.
6. REMOVE EXISTING PLUMBING FIXTURE, REFERENCE PLUMBING DRAWINGS.
7. EXISTING RESINOUS FLOORING IN SHADED AREA SHALL REMAIN.
8. REMOVE EXISTING WINDOW COVERING AND EXPOSED BLOCKING.
9. REMOVE EXISTING PA SYSTEM, COIL EXISTING CABLING ABOVE CEILING, TURN PA SYSTEM OVER TO OWNER, REFERENCE ELECTRICAL DRAWINGS.
10. REMOVE EXISTING EQUIPMENT CABINET, REFERENCE ELECTRICAL DRAWINGS.
11. SAW-CUT EXISTING CONCRETE SLAB AS REQUIRED FOR NEW FLOOR ELECTRICAL BOXES AND CONDUIT. REFERENCE ELECTRICAL DRAWINGS.



1 demo floor plan

1/4" = 1'-0"

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PLOTTED BY: RYAN TRAXLER PLOT DATE: 2/3/2026 12:46 PM
LAST SAVED BY: RTRAX 2/2/2026 10:21 AM

issued

BID DOCUMENTS

revised

1/29/2026
1 CODE COMMENT REV.

STATE OF OHIO
KYLE D. ZEPERNICK
No. 10884
REGISTERED ARCHITECT

Kyle Zepernick, License #10884
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renovation for:
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demo plan

project number
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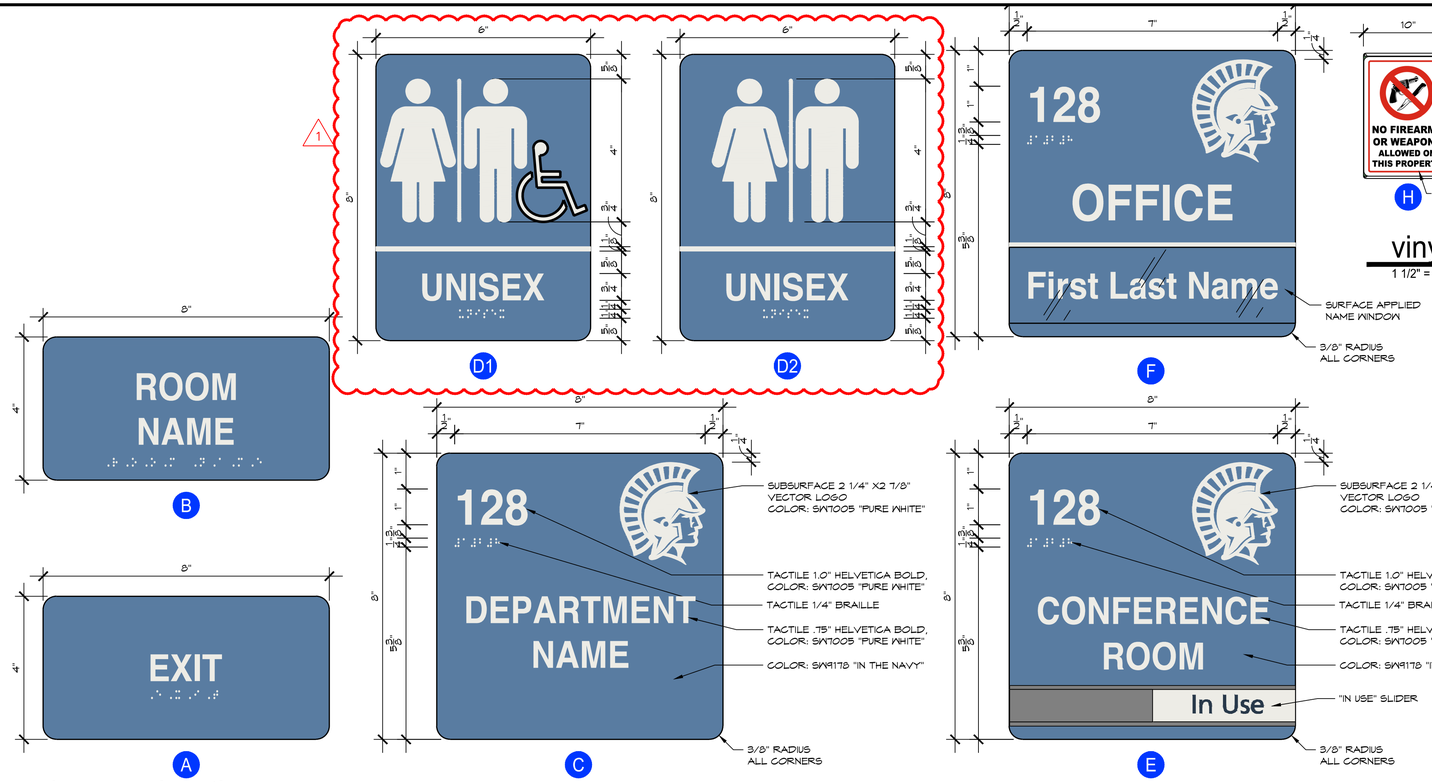
drawn by
###
checked by
###

sheet

A1.2



vinyl graphics

1 1/2" = 1'-0"

signage elevations

6" = 1'-0" (UNLESS NOTED OTHERWISE)

new work notes

1. NEW WALL PARTITION TIGHT TO STRUCTURE ABOVE. 3 5/8" METAL STUDS @24" O.C. WITH FULL THICKNESS BATT INSULATION AND 5/8" DRYWALL EACH SIDE. PROVIDE WATER-RESISTANT DRYWALL IN ALL TOILET ROOMS AND WET WALLS.
2. NEW DOUBLE STUD SOUND PRIVACY WALL. SEE DETAIL 2B ON SHEET A3.1
3. NEW FLOORING, WALL BASE, WALL FINISH AND CEILING THIS ROOM. REFERENCE FINISH SCHEDULE AND REFLECTED CEILING PLAN.
4. NEW DOOR AND FRAME, REFERENCE DOOR SCHEDULE ON SHEET A3.1
5. NEW CASEWORK, REFERENCE INTERIOR ELEVATIONS AND SPECIFICATIONS.
6. NEW PLUMBING FIXTURE, REFERENCE PLUMBING DRAWINGS.
7. EXISTING DOOR TO REMAIN, REFERENCE DOOR SCHEDULE FOR ASSOCIATED WORK AND HARDWARE.
8. FURNISHINGS PROVIDED AND INSTALLED BY OWNER, U.N.O.
9. NEW WHITE BOARD, PROVIDED AND INSTALLED BY OWNER.
10. NEW SMART BOARD, PROVIDED AND INSTALLED BY OWNER. REFERENCE ELECTRICAL DRAWINGS FOR ASSOCIATED WORK.
11. NEW REFRIGERATOR PROVIDED AND INSTALLED BY OWNER.
12. NEW WINDOW SHADES AND WINDOW POCKET, REFERENCE DETAIL ON SHEET A1.5 AND SPECIFICATIONS.
13. PROVIDE FROSTED PRIVACY WINDOW FILM ON EXISTING GLASS.
14. NEW SEMI-RECESSED FIRE EXTINGUISHER CABINET, SEE SPECIFICATIONS.
15. PATCH HOLES IN EXISTING BRICK WALL, PAINT ENTIRE WALL.
16. NEW CLOSET SHELF AND ROD, SEE DETAIL "B" ON SHEET A2.1
17. NEW SIGNAGE TYPICAL, REFERENCE SIGNAGE ELEVATIONS THIS SHEET AND SPECIFICATIONS.
18. OWNER PROVIDED AND INSTALLED PAPER SHREDDER. REFERENCE ELECTRICAL DRAWING FOR ADDITIONAL WORK.
19. NOT USED
20. OWNER PROVIDED AND INSTALLED COPIER.
21. ASSUMED 1 HOUR FIRE RATING. PROTECT NEW OPENINGS AND PENETRATIONS AS REQUIRED.

general notes

A. PROVIDE FIRE STOPPING AT ALL RATED FLOOR AND WALL ASSEMBLIES.

B. CONTRACTOR SHALL TAKE INTO ACCOUNT EXISTING CONSTRUCTION INCLUDING DUCT WORK AND PIPING FOR NEW CONSTRUCTION. THIS INCLUDES, BUT NOT LIMITED TO, NEW PARTITIONS TO THE STRUCTURE ABOVE.

NEW 1" THICK ACRYLIC LETTERS WITH BLIND STUDS, FLUSH MOUNTED
COLOR: SW7005 "PURE WHITE"

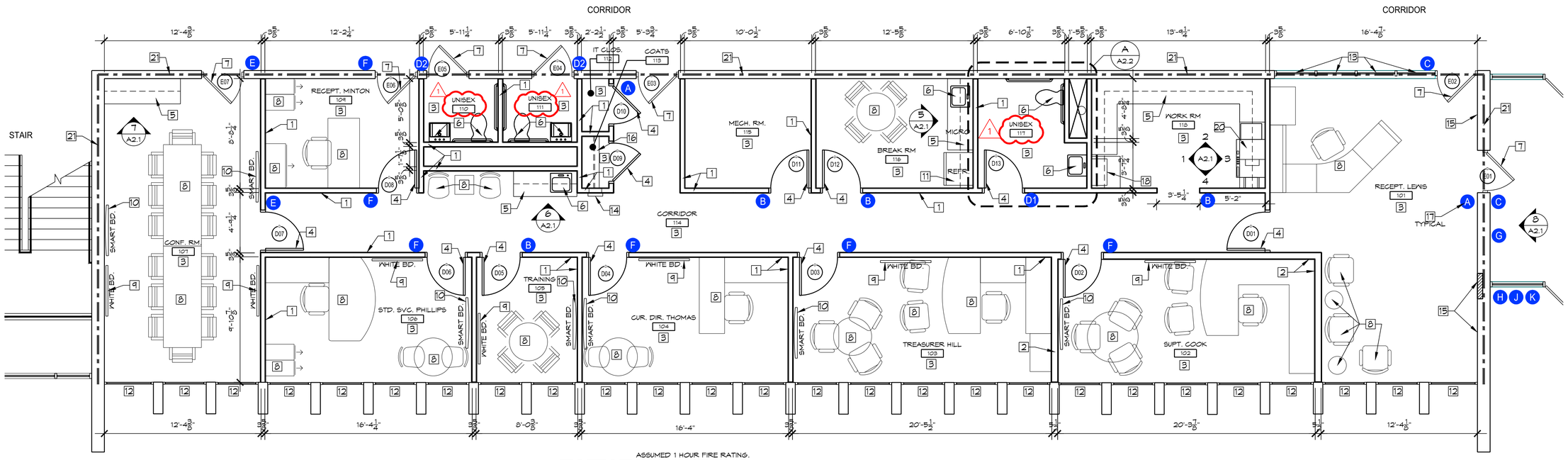
4'-9"

11"

VALLEY VIEW
BOARD OF EDUCATION

G REFERENCE INTERIOR ELEVATION #B ON SHEET A2.1

NOT TO SCALE



1 proposed floor plan

1/4" = 1'-0"

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renovation for:
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new work plan

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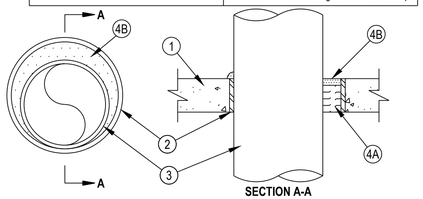
A1.3

DRAWING NAME: S:\JOBS\251431 VALLEY VIEW SCHOOLS BOARD BASEBALL SOFTBALL\A1.3 NEW WORK PLAN.DWG
PLOTTED BY: RYAN TRAXLER PLOT DATE: 2/3/2026 12:46 PM
LAST SAVED BY: RTRAX 2/2/2026 11:56 AM

System No. C-AJ-1380

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating - 2 Hr	F Rating - 2 Hr
T Rating - 0 Hr	FT Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft	FH Rating - 2 Hr
L Rating At 400 F - 4 CFM/sq ft	FTH Rating - 0 Hr
	L Rating At Ambient - Less Than 1 CFM/sq ft
	L Rating At 400 F - 4 CFM/sq ft



SECTION A-A

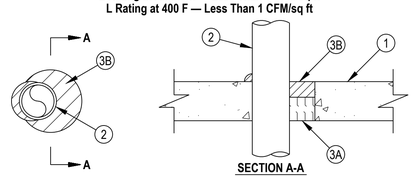
1. Floor or Wall Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 31-7/8 in. (810 mm).
   See Concrete Blocks (CAZT) in the Fire Resistance Directory for names of manufacturers.
2. Metallic Sleeve — (Optional) Nom 32 in. (813 mm) diam (or smaller) Schedule 40 steel pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces.
3. Through-Penetrant — One metallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. Pipe or conduit to be rigidly supported on both sides of floor assembly. The annular space between pipe or conduit and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm). The following types and sizes of metallic pipes or conduits may be used:
   A. Steel Pipe — Nom 30 in.(762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Cast Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   C. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
   D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Conduit — Nom 6 in. (152 mm) diam (or smaller) steel conduit.
   F. Conduit — Nom 4 in. (102 mm) (or smaller) steel electrical metallic tubing (EMT).
4. Firestop System — The firestop system shall consist of the following:
   A. Packing Materials — Min 2 in. (51 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor to accommodate the required thickness of fill material.
   B. Fill Void or Cavity Materials* - Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within annulus, flush with top surface of floor. At point contact, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the concrete/sleeve/pipe interface on the top surface of the floor and both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. C-AJ-2647

Classified by Underwriters Laboratories, Inc. to UL 1479

F Rating - 2 Hr
T Rating - 1/2 Hr
L Rating at Ambient — Less Than 1 CFM/sq ft
L Rating at 400 F — Less Than 1 CFM/sq ft



SECTION A-A

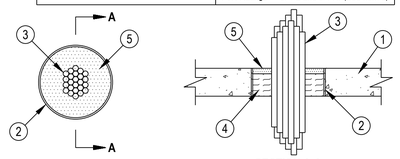
1. Floor or Wall Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete floor or min 3-1/2 in. (89 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 4 in. (102 mm).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
   1A. Steel Deck/Floor Assembly — (Not Shown) — As an alternate to Item 1, the floor assembly may consist of a min 2 hr fire rated fluted steel deck/concrete floor assembly. The floor assembly shall be constructed of the materials and in the manner described in the individual Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Steel Floor and Form Units — Min 1-1/2 in. (38 mm) deep galv fluted units.
   B. Concrete — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete, as measured from the top plane of the floor units.
2. Through-Penetrant — One nonmetallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between the penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-5/8 in. (41 mm). Penetrant to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of penetrants may be used:
   A. Polyvinyl Chloride (PVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) piping systems.
   B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.
   C. Rigid Nonmetallic Conduit+ — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).
   D. Electrical Nonmetallic Tubing (ENT)+ — Nom 2 in. (51 mm) diam (or smaller) electrical nonmetallic tubing. Tubing to be installed in accordance with the National Electrical Code (NFPA No.70).
   See Electrical Nonmetallic Tubing (FKHU) category in the Electrical Construction Material Directory for names of manufacturers.
   E. Crosslinked Polyethylene (PEX) Tubing — Nom 1 in. (25 mm) diam (or smaller) SDR 9 PEX tubing for use in closed (process or supply) piping systems.
3. Firestop System — The firestop system shall consist of the following:
   A. Packing Material — Min 1-1/2 in. (38 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* — Sealant — Min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with the top surface of floor or both surfaces of wall. At the point of contact location between pipe and concrete, a min 1/2 in. diam bead of fill material shall be applied at the concrete/pipe interface on the top surface of floor and on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.
+Bearing the UL Listing Mark

System No. C-AJ-3095

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 3 Hr	F Rating — 3 Hr
T Ratings — 0, 1/2 and 3/4 Hr (See Item 3)	FT Ratings — 0, 1/2 and 3/4 Hr (See Item 3)
	FH Rating — 3 Hr
	FTH Ratings — 0, 1/2 and 3/4 Hr (See Item 3)



SECTION A-A

1. Floor or Wall Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600 2400 kg/m3) concrete floor or min 3 in. (76 mm) thick reinforced lightweight or normal weight concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 6 in. (152 mm).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Sleeve — (Optional) — Nom 6 in. (152 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max 3 in. (76 mm) above the floor or both surfaces of the wall. If the steel sleeve extends above the floor or both surfaces of the wall, the T Rating of the firestop system is 0 Hr.
3. Cables — Aggregate cross-sectional area of cables in opening to be min 25 percent to max 45 percent of the aggregate cross-sectional area of the opening. Cables to be rigidly supported on both sides of floor or wall assembly. Any combination of the following types and sizes of metallic conductor or fiber optic cable may be used:
   A. Max 500 kcmil single copper connector power cable with thermoplastic insulation and polyvinyl chloride (PVC) jacket. When single copper conductor power cable is used, T, FT and FTH Rating is 0 hr.
   B. Max 350 kcmil single conductor power cables with either aluminum or copper conductors and cross-linked polyethylene (XPLE) insulation. When single aluminum conductor power cable is used, T Rating is 0 hr. When single copper conductor power cable is used, T, FT and FTH Rating is 1/2 hr.
   C. Max 300 pair No. 24 AWG copper conductor telecommunication cables with polyvinyl chloride (PVC) insulation and jacket material. When telecommunication cable is used, T, FT and FTH Rating is 0 hr.
   D. Max three copper connector No. 6 AWG cable with polyvinyl chloride (PVC) insulation and jacket material. When multi-connector power cable is used, T Rating is 0 hr.
   E. Max 7/C copper conductor No. 12 AWG multiconductor power and control cables with PVC or cross-linked polyethylene (XLPE) insulation and PVC jacket. When multiconductor power and control cable is used, T, FT and FTH Rating is 3/4 hr.
   F. Multiple fiber optical communication cables jacketed with PVC and having a max outside diam of 1/2 in. When fiber optic cable is used, T, FT and FTH Rating is 3/4 hr.
   G. Max 3/C copper conductor No. 12 AWG with Bare aluminum ground, polyvinyl chloride (PVC) insulated steel, Metal-clad cable+. When MC cable is used, T, FT and FTH Rating is 0 hr.
   AFC CABLE SYSTEMS INC
   H. Max 3/C with ground 2/0 AWG copper conductor SER cable with cross-linked polyethylene (XLPE) insulation and polyvinyl chloride (PVC) jacket. When SER cable is used, T, FT and FTH Rating is 0 hr.
   I. Max RG/U coaxial cable with polyethylene (PE) insulation and polyvinyl chloride (PVC) jacket having a max outside diameter of ½ in. When coaxial cable is used, T Rating is 0 hr.
   J. Fire Resistive Cables* - Max 1-1/4 in. (32 mm) diam single conductor or multi conductor Type MI cable. A min 1/8 in. (3 mm) separation shall be maintained between MI cables and any other type of cable. When Fire Resistive Cables *are used, T, FT and FTH Rating is 0 hr.
   K. Through Penetrating Product* — Any Cables, Metal-Clad Cable+ or Armored Cable+ currently Classified under the Through Penetrating Products category.
   See Through Penetrating Product (XHLY) category in the Fire Resistance Directory for names of manufacturers.
4. Packing Material — Min 2 in. (51 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed 1/2 in. (13 mm) from top surface of floor or from both surfaces of wall to accommodate the fill material. If the steel sleeve (Item 2) extends above the top of the floor, the packing material shall be flush with the bottom surface of the floor.
5. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
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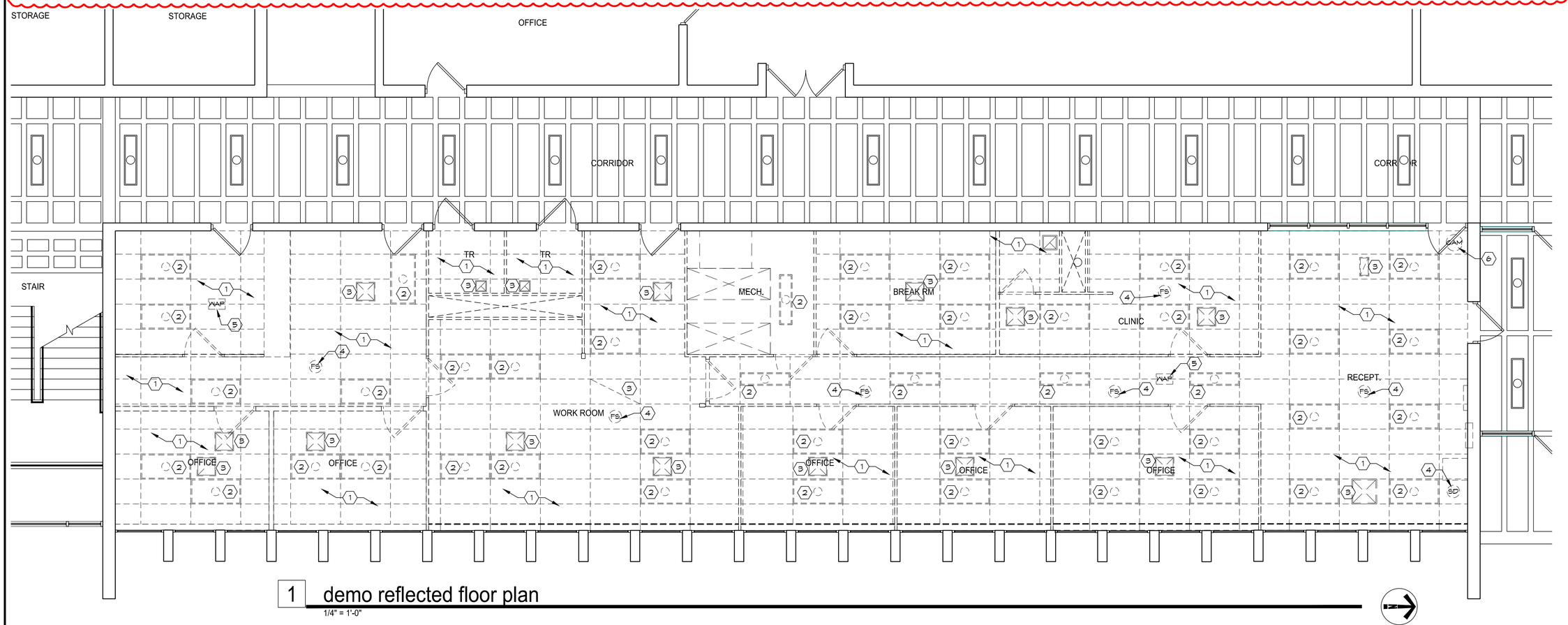
fire stopping details

scale: none

demo ceiling notes

1. REMOVE EXISTING CEILING GRID, TILE AND HANGERS COMPLETE.
2. REMOVE EXISTING LIGHT FIXTURE, REFERENCE ELECTRICAL DRAWINGS
3. REMOVE EXISTING MECHANICAL DEVICE, REFERENCE MECHANICAL DRAWINGS.
4. REMOVE EXISTING FIRE ALARM DEVICE, REFERENCE ELECTRICAL DRAWINGS.
5. REMOVE EXISTING WIRELESS ACCESS POINT, RETAIN FOR REINSTALLATION. REFERENCE ELECTRICAL DRAWINGS.
6. REMOVE EXISTING CAMERA, RETAIN FOR REINSTALLATION, REFERENCE ELECTRICAL DRAWINGS.



1 demo reflected floor plan

1/4" = 1'-0"

issued

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demo reflected ceiling

project number
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checked by
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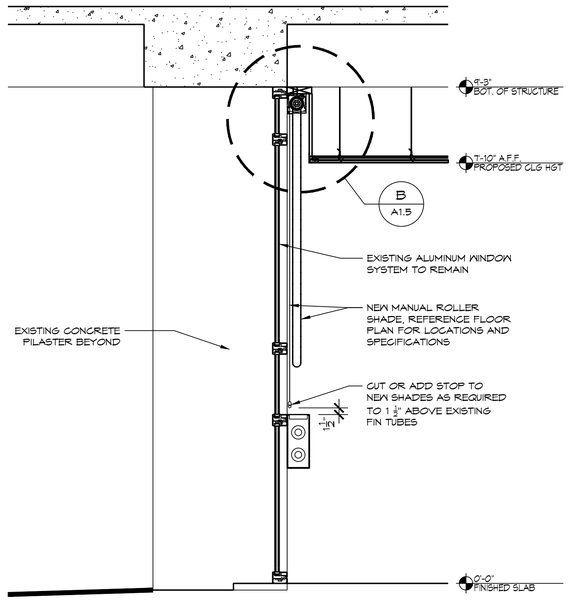
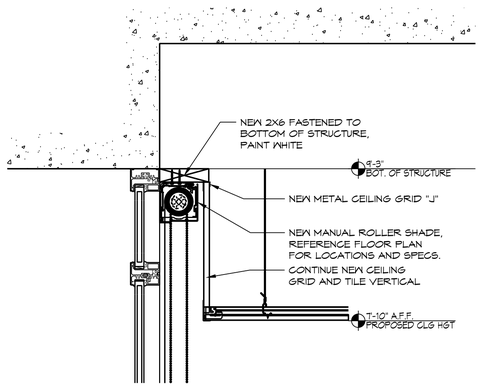
sheet
A1.4

DRAWING NAME: S:\JOBS\251431 VALLEY VIEW SCHOOLS BOARD BASEBALL SOFTBALL\A1.4 DEMO REFLECTED CEILING.DWG
PLOTTED BY: RYAN TRAXLER PLOT DATE: 2/3/2026 12:46 PM
LAST SAVED BY: RTRAX 2/2/2026 10:42 AM



a section

3/4" = 1'-0"

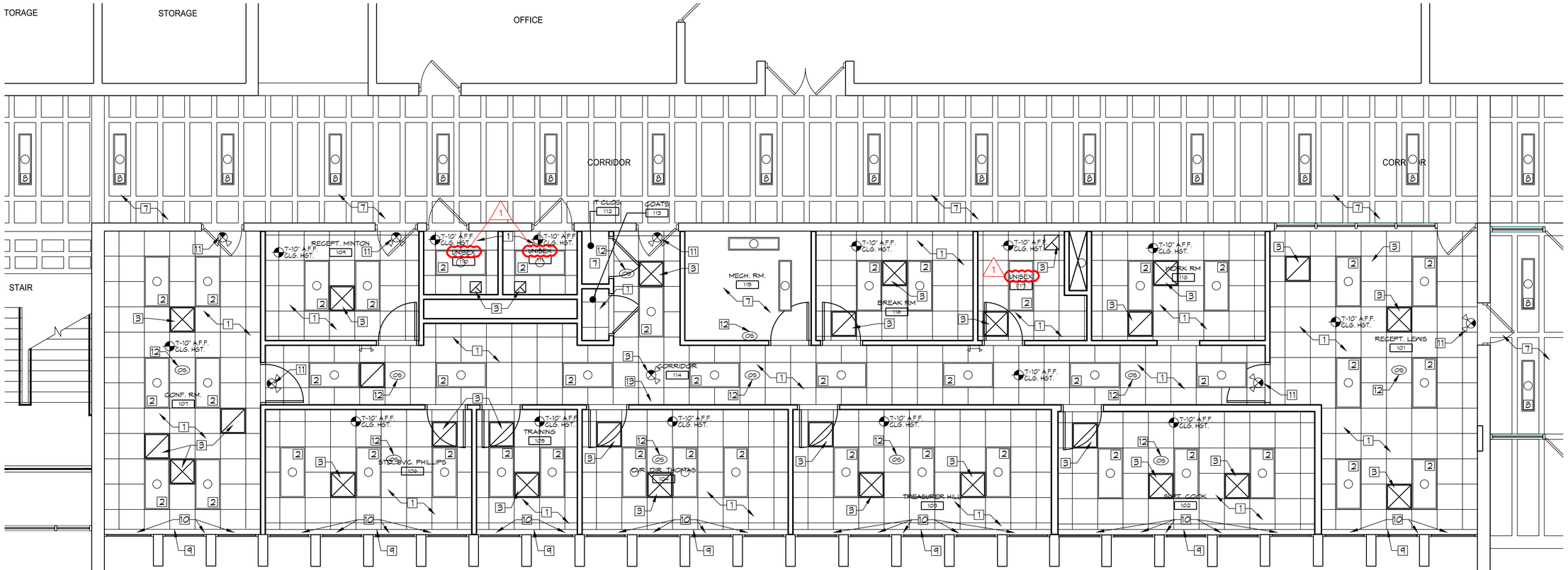


b window head detail

1 1/2" = 1'-0"

ceiling new work notes

1. NEW 2X2 CEILING GRID, TILE, HANGERS AND ACCESSORIES, REFERENCE SPECIFICATIONS.
2. NEW LIGHT FIXTURE, REFERENCE ELECTRICAL DRAWINGS
3. NEW MECHANICAL DEVICE, REFERENCE MECHANICAL DRAWINGS.
4. NEW FIRE ALARM DEVICE, REFERENCE ELECTRICAL DRAWINGS.
5. REINSTALL EXISTING WIRELESS ACCESS POINT, REFERENCE ELECTRICAL DRAWINGS.
6. REINSTALL EXISTING CAMERA, REFERENCE ELECTRICAL DRAWINGS.
7. EXISTING EXPOSED STRUCTURE TO REMAIN.
8. EXISTING LIGHT FIXTURE TO REMAIN.
9. NEW WINDOW POCKET, SEE DETAIL "A" THIS SHEET.
10. NEW WINDOW SHADES, REFERENCE SPECIFICATIONS AND DETAIL "A" THIS SHEET.
11. NEW EXIT SIGN, REFERENCE ELECTRICAL DRAWINGS.
12. NEW OCCUPANCY SENSOR, REFERENCE ELECTRICAL DRAWINGS.
13. NEW EMERGENCY LIGHT FIXTURE, REFERENCE ELECTRICAL DRAWINGS.



1 proposed reflected floor plan

1/4" = 1'-0"

issued

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proposed reflected ceiling

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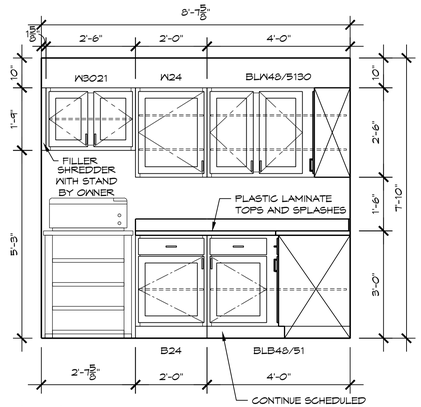
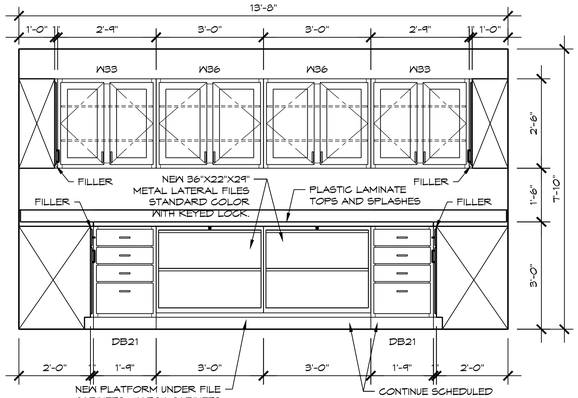
PLOTTED BY: RYAN TRAXLER PLOT DATE: 2/3/2026 12:46 PM
LAST SAVED BY: RTRAX 2/2/2026 11:51 AM



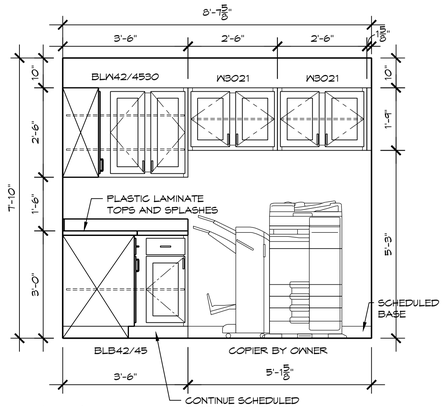
1 #118 workroom elevation

1/2" = 1'-0"



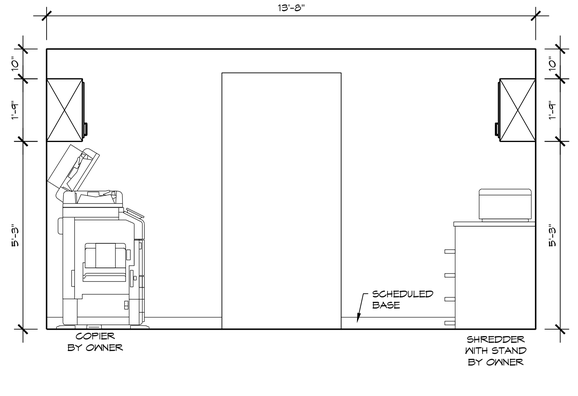
2 #118 workroom elevation

1/2" = 1'-0"



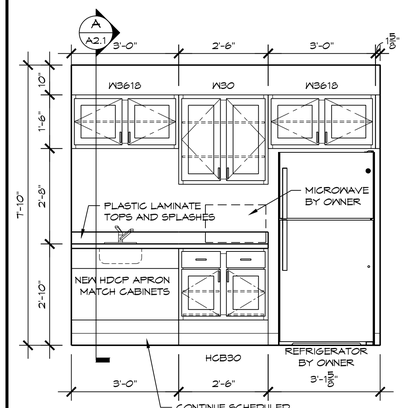
3 #118 workroom elevation

1/2" = 1'-0"



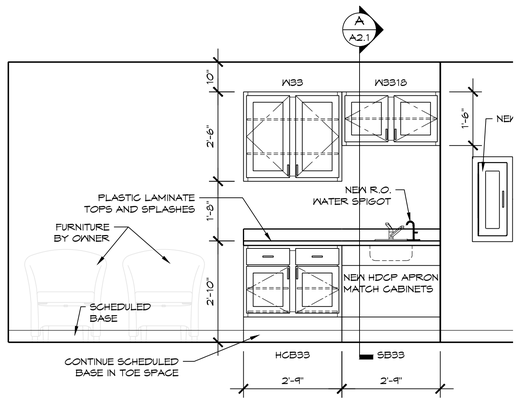
4 #118 workroom elevation

1/2" = 1'-0"



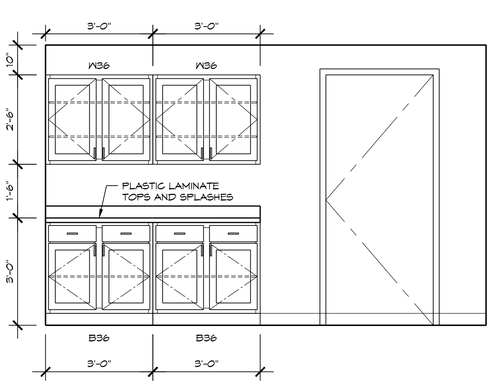
5 #116 break room elevation

1/2" = 1'-0"



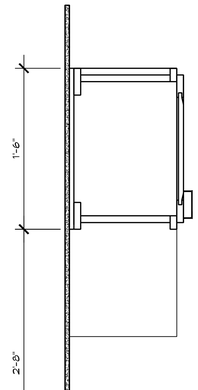
6 #114 corridor elevation

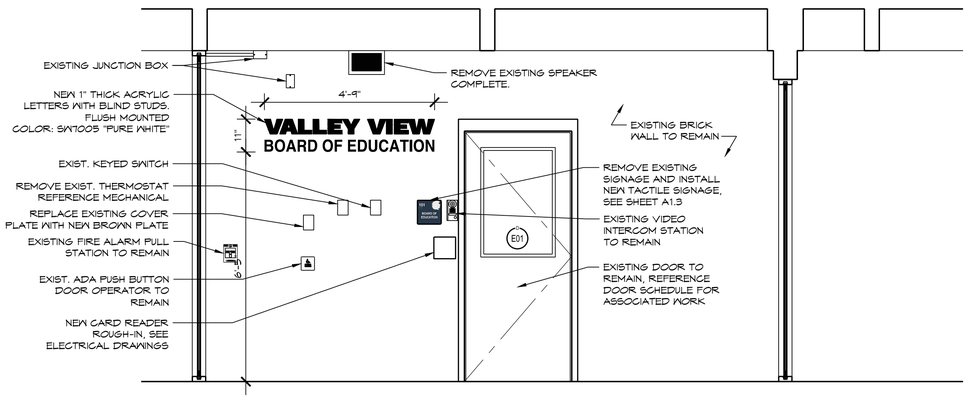
1/2" = 1'-0"



7 #107 conference room elevation

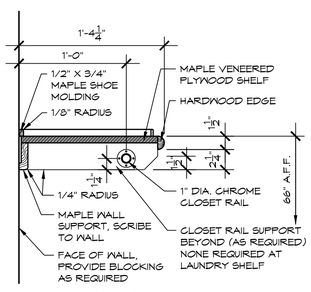
1/2" = 1'-0"





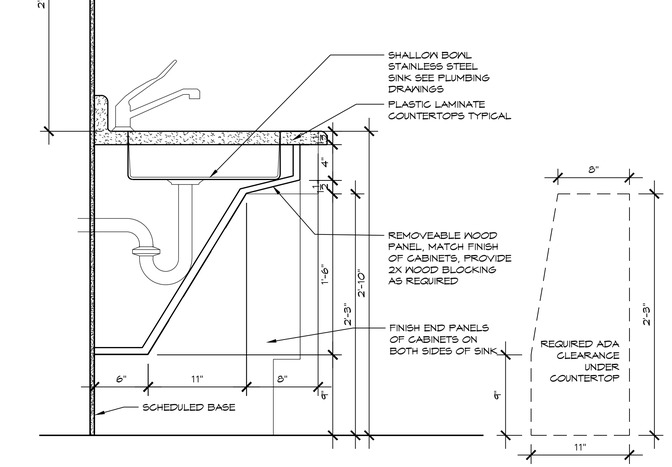
8 #100 entry vestibule elevation

1/2" = 1'-0"



b coat closet rod detail

1 1/2" = 1'-0"



a ada sink detail

1 1/2" = 1'-0"

issued

BID DOCUMENTS

revised

STATE OF OHIO
KYLE D. ZEPERNICK
No. 10884
REGISTERED ARCHITECT

Kyle Zepernick, License #10884
Expiration Date 12-31-27

OREGON GROUP ARCHITECTS
ARCHITECTURE INTERIORS CODE CONSULTANTS
THE PARSONAGE HOUSE
309 S. PATTERSON BLVD. DAYTON, OHIO 45402
937-228-1551 F 937-228-9569

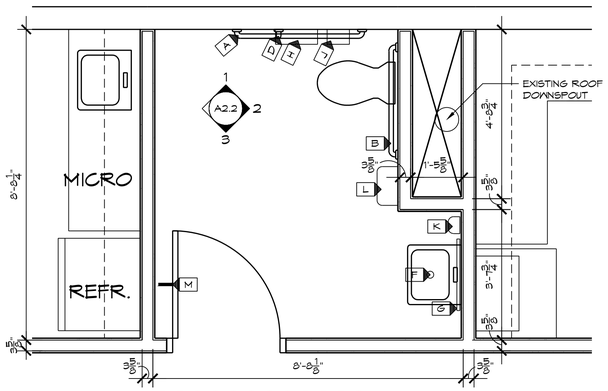
renovation for:
valley view local schools
6027 farmersville pike
germantown, ohio 45327

enlarged plans, interior elevations

project number
251431
date
1/23/2026
drawn by
RMT
checked by
KDZ

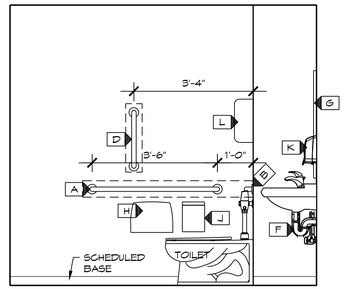
sheet
A2.1

DRAWING NAME: S:\JOBS\251431 VALLEY VIEW SCHOOLS BOARD BASEBALL SOFTBALL\A2.1 ENLARGED PLANS, INTERIOR ELEVATIONS.DWG
PLOTTED BY: RYAN TRAXLER PLOT DATE: 2/3/2026 12:46 PM
LAST SAVED BY: RTRAX 1/30/2026 1:33 PM



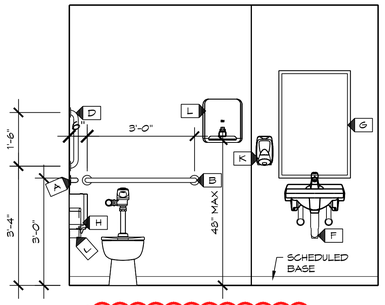
a #117 unisex plan 1

1/2" = 1'-0"



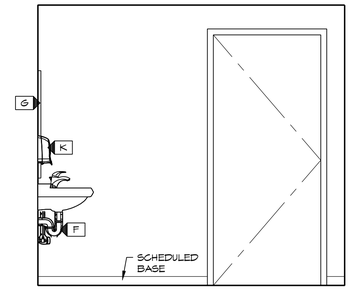
1 #117 unisex elev. 1

1/2" = 1'-0"



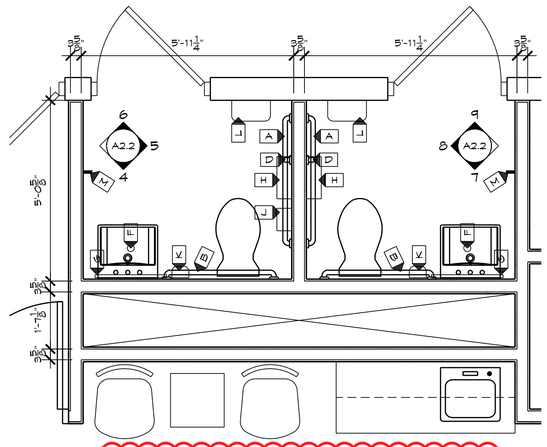
2 #117 unisex elev. 1

1/2" = 1'-0"



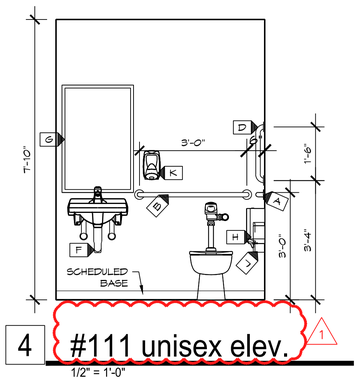
3 #117 unisex elev. 1

1/2" = 1'-0"



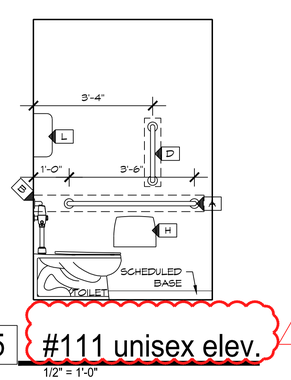
b #110 unisex / #111 unisex plan 1

1/2" = 1'-0"



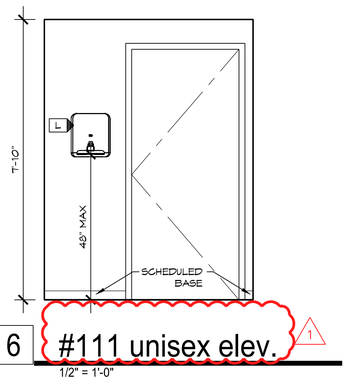
4 #111 unisex elev. 1

1/2" = 1'-0"



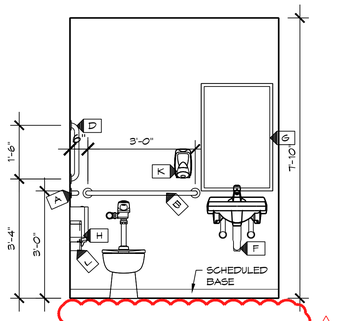
5 #111 unisex elev. 1

1/2" = 1'-0"



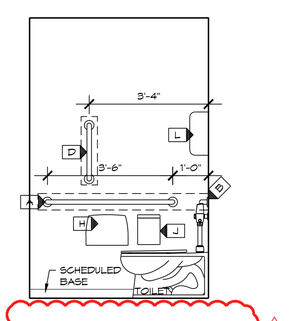
6 #111 unisex elev. 1

1/2" = 1'-0"



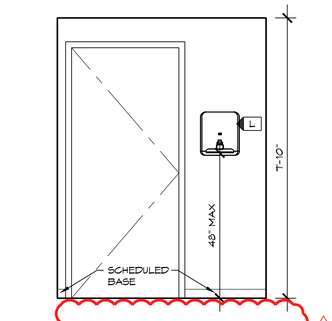
7 #110 unisex elev. 1

1/2" = 1'-0"



8 #110 unisex elev. 1

1/2" = 1'-0"



9 #110 unisex elev. 1

1/2" = 1'-0"

toilet accessory schedule

ITEM	DESCRIPTION	MANUF	MODEL	NOTES
A	42" GRAB BAR	ASI	3800 42"	
B	36" GRAB BAR	ASI	3800 36"	
C	NOT USED	-	-	
D	18" GRAB BAR	ASI	3800 18"	
E	NOT USED	-	-	
F	PIPE GUARD	TRUBRO	LAV GUARD 2	
G	FRAMED MIRROR 24"W X 36"H	SEE SPECS	SEE SPECS	
H	SURF MTD. TOILET PAPER DISPENSER	CINTAS	-	SEE NOTE #1
J	SANITARY NAPKIN DISPOSAL	ASI	20852	
K	SOAP DISPENSER	CINTAS	-	SEE NOTE #1
L	PAPER TOWEL DISPENSER	CINTAS	-	SEE NOTE #1
M	ROBE HOOK	ASI	7308	

NOTES:
1. ACCESSORY PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR.
2. PROVIDE WOOD BLOCKING AT ALL WALL MOUNTED ACCESSORIES

issued
BID DOCUMENTS
revised
1/29/2026 CODE COMMENT REV.

STATE OF OHIO
KYLE D. ZEPERNICK
No. 10884
REGISTERED ARCHITECT
Kyle Zepernick, License #10884
Expiration Date 12-31-27

OREGON GROUP ARCHITECTS
ARCHITECTURE INTERIORS CODE CONSULTANTS
THE PARSONAGE HOUSE
305 S. PATTERSON BLVD DAYTON, OHIO 45402
937-228-1551 F 937-228-9569

renovation for:
valley view local schools
6027 farmersville pike
germantown, ohio 45327

interior elevations

project number
251431
date
1/23/2026
drawn by
RMT
checked by
KDZ

sheet
A2.2

DRAWING NAME: S:\JOBS\251431 VALLEY VIEW SCHOOLS BOARD BASEBALL SOFTBALL\A2.2 INTERIOR ELEVATIONS.DWG
PLOTTED BY: RYAN TRAXLER PLOT DATE: 2/3/2026 12:46 PM
LAST SAVED BY: RTRAX 2/2/2026 11:56 AM

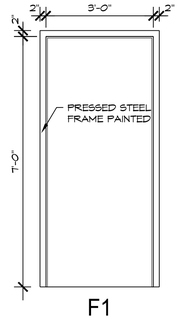
new door schedule

DOOR #	DOOR SIZE	FRAME: HOLLOW MTL	DOOR: SOLID CORE WOOD	DETAIL: HEAD	DETAIL: JAMB	DETAIL: SILL	FIRE RATING	HARDWARE SET NO.	CARD READER	KEYPAD LOCK	CLOSER	REMARKS
D01	3'-0" x 7'-0"	F1	D2	1A	1B	1E	-	-			●	
D02	3'-0" x 7'-0"	F1	D2	2A	2B	1E	-	-		●		
D03	3'-0" x 7'-0"	F1	D2	1A	1B	1E	-	-		●		
D04	3'-0" x 7'-0"	F1	D2	1A	1B	1E	-	-		●		
D05	3'-0" x 7'-0"	F1	D2	1A	1B	1E	-	-				
D06	3'-0" x 7'-0"	F1	D2	1A	1B	1E	-	-		●		
D07	3'-0" x 7'-0"	F1	D2	1A	1B	1E	-	-				
D08	3'-0" x 7'-0"	F1	D2	1A	1B	1E	-	-		●		
D09	3'-0" x 7'-0"	F1	D1	1A	1B	1E	-	-				
D10	3'-0" x 7'-0"	F1	D3	1A	1B	1E	-	-				WITH LOUVER
D11	3'-0" x 7'-0"	F1	D1	1A	1B	1D	-	-				
D12	3'-0" x 7'-0"	F1	D2	1A	1B	1C	-	-			●	
D13	3'-0" x 7'-0"	F1	D1	1A	1B	1C	-	-			●	

existing door schedule

DOOR #	DOOR SIZE	FRAME: HOLLOW MTL	FRAME: EXISTING FRAME	DOOR: SOLID CORE WOOD	DOOR: EXISTING DOOR	DETAIL: HEAD	DETAIL: JAMB	DETAIL: SILL	FIRE RATING	HARDWARE SET NO.	NEW CARD READER (NOTE #1)	NEW KEYPAD LOCK	EXISTING CLOSER	REMARKS
E01	3'-0" x 7'-0"		×		×				20MIN	-	●		●	
E02	3'-0" x 7'-0"		×		×				20MIN	-	●		●	
E03	3'-0" x 7'-0"		×		×				20MIN	-	●		●	
E04	3'-0" x 7'-0"		×		×				20MIN	-			●	REPLACE PRIVACY LATCH WITH LEVER STYLE, MATCH DOOR D13
E05	3'-0" x 7'-0"		×		×				20MIN	-			●	REPLACE PRIVACY LATCH WITH LEVER STYLE, MATCH DOOR D13
E06	3'-0" x 7'-0"		×		×				20MIN	-			●	
E07	3'-0" x 7'-0"		×		×				20MIN	-			●	

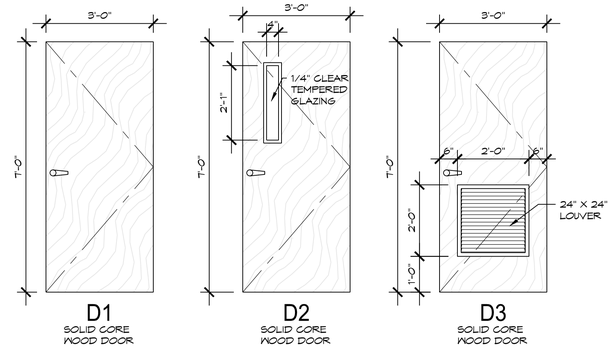
NOTE 1 - ROUGH-IN FOR NEW CARD READER, REFERENCE ELECTRICAL DRAWINGS.



F1

frame elevations

1/2" = 1'-0"



door elevations

1/2" = 1'-0"

first floor finish schedule

ROOM #	ROOM NAME	FLOOR: NEW CARPET TILE (CPT-1)	FLOOR: NEW RESINOUS FLOORING (RES-1)	FLOOR: NEW LVT (LVT-1)	FLOOR: EXIST RESINOUS FLOORING TO REMAIN	FLOOR: EXISTING CONCRETE SLAB TO REMAIN	BASE: NEW RUBBER BASE (RB-1)	BASE: NEW 4" RESINOUS BASE - NOTE #2	BASE: NONE	WALL: PAINT (NEW GYP WALLS) PT-1 NOTE #1	WALL: PAINT EXIST. CMU WALL PT-1	WALL: PAINT EXISTING BRICK PT-1	WALL: PAINT EXIST. CONCRETE PILASTERS PT-1	CEILING: NEW 2X2 SUSPENDED ACOUSTIC TILE ACT-1	CEILING: NEW 2X4 SUSPENDED ACOUSTIC TILE ACT-2	CEILING: EXPOSED STRUCTURE	CLG. HGT.	MISCL.	REMARKS
101	RECEPTION - LEWIS	●				●		●		●	●		●				7'-10"		
102	SUPERINTENDENT COOK	●				●		●		●			●	●			7'-10"		
103	TREASURER HILL	●				●		●		●			●	●			7'-10"		
104	CURRICULUM DIR.	●				●		●		●			●	●			7'-10"		
105	TRAINING	●				●		●		●			●	●			7'-10"		
106	STUDENT SERVICES	●				●		●		●			●	●			7'-10"		
107	CONFERENCE ROOM	●				●		●		●	●	●	●	●			7'-10"		
108	NOT USED																		
109	RECEPTION - MINTON	●				●		●		●	●			●			7'-10"		
110	UNISEX				●		●			●	●				●		7'-10"		
111	UNISEX				●		●			●	●				●		7'-10"		
112	IT CLOSET	●				●		●		●	●			●			7'-10"		
113	COATS	●				●		●		●				●			7'-10"		
114	CORRIDOR	●				●		●		●	●			●			7'-10"		
115	MECHANICAL ROOM					●		●		1	●					●	-		
116	BREAK ROOM		●			●		●		●	●			●			7'-10"		
117	UNISEX		●		●			●		●	●				●		7'-10"		
118	WORK ROOM		●					●		●	●			●			7'-10"		

(NOTES)
1. PROVIDE (1) ONE PAINTED ACCENT WALL PER ROOM, SEE FINISH LIST PT-2. COORDINATE ACCENT WALL LOCATIONS WITH OWNER.
2. INSTALL NEW 4" HIGH RESINOUS WALL BASE OVER CEMENT TILE BACKER BOARD AT GYP WALL LOCATIONS. REFERENCE SPECIFICATIONS.

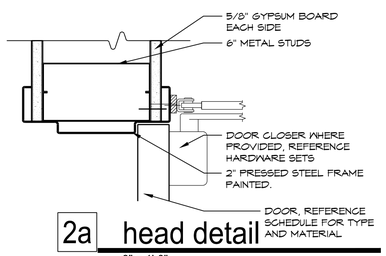
finish list

FLOORING:
- CPT-1 TARKETT, STYLE: COROLLARY CARPET TILE, SIZE: 18"X36", COLOR: "BLUE STRATEGY" 39404
- RES-1 KEY RESIN COMPANY, KEY CHIP 100 CUSTOM, PRIME: MED GREY 135, BROADCAST: FLAKES ¼" 101446-FB900 220527 CUSTOM #2, GROUT: 511 UV, TOPCOAT: PA
- LVT-1 MANNINGTON, COLOR ANCHOR COLLECTION, STYLE: GROOVE, COLOR: MISTY MOUNTAIN, SIZE: 6"X36"

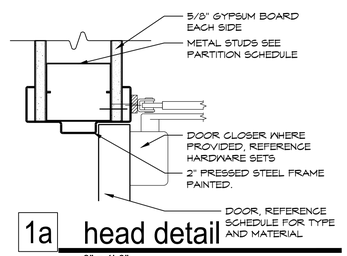
WALL BASE:
- RB-1 ROPPE RUBBER BASE, SIZE: 4" HIGH COILS, COLOR: #139 "DEEP NAVY"
- RESB-1 KEY RESIN COMPANY, KEY CHIP 100 CUSTOM, PRIME: MED GREY 135, BROADCAST: FLAKES ¼" 101446-FB900 220527 CUSTOM #2, GROUT: 511 UV, TOPCOAT: PA

WALL FINISHES:
- PT-1 MFG: SHERWIN WILLIAMS (FIELD PAINT), FINISH: EGGSHELL, COLOR: SELECTED BY ARCHITECT
- PT-2 MFG: SHERWIN WILLIAMS (ACCENT WALL), FINISH: EGGSHELL, COLOR: SELECTED BY ARCHITECT

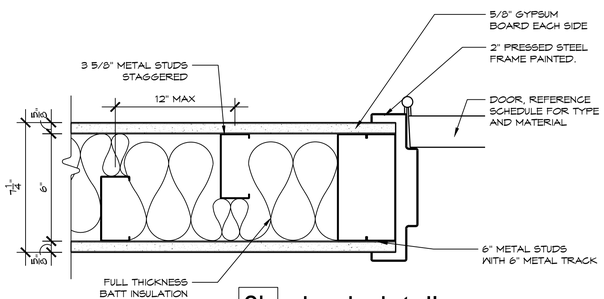
CEILING:
- ACT-1 MFG: ARMSTRONG, SIZE: 24" X 24" X ⅝", STYLE: FINE FISSURED, EDGE: SQUARE, GRID SIZE: 15/16"
- ACT-2 MFG: ARMSTRONG, SIZE: 24" X 24" X ¾", STYLE: CERAMAGUARD FINE FISSURED, EDGE: SQUARE, GRID SIZE: 15/16"



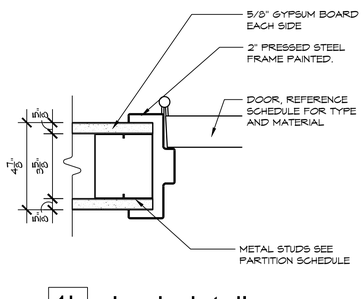
2a head detail
3" = 1'-0"



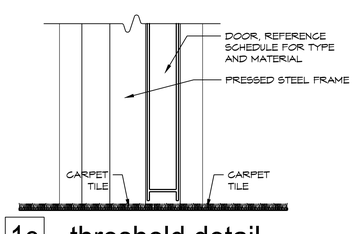
1a head detail
3" = 1'-0"



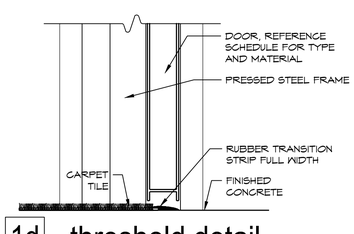
2b jamb detail
3" = 1'-0"



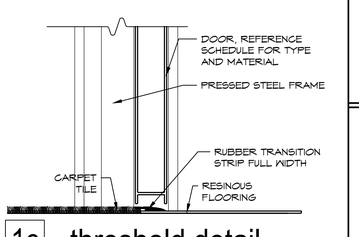
1b jamb detail
3" = 1'-0"



1e threshold detail
3" = 1'-0"



1d threshold detail
3" = 1'-0"



1c threshold detail
3" = 1'-0"

issued
BID DOCUMENTS
revised
1/29/2026 CODE COMMENT REV.

STATE OF OHIO
KYLE D. ZEPERNICK No. 10884
REGISTERED ARCHITECT
Kyle Zepernick, License #10884
Expiration Date 12-31-27

OREGON GROUP ARCHITECTS
ARCHITECTURE INTERIORS CODE CONSULTANTS
THE PARSONAGE HOUSE
300 S. PATTERSON BLVD. DAYTON, OHIO 45402
937-228-9565

renovation for:
valley view local schools
6027 farmersville pike
germantown, ohio 45327

door schedule, finish schedule

project number
251431
date
1/23/2026
drawn by
RMT
checked by
KDZ

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DRAWING NAME: S:\JOBS\251431 VALLEY VIEW SCHOOLS BOARD BASEBALL SOFTBALL\A3.1 DOOR SCHEDULE, FINISH SCHEDULE.DWG
PLOTTED BY: RYAN TRAXLER PLOT DATE: 2/4/2026 11:32 AM
LAST SAVED BY: RTRAX 2/4/2026 11:31 AM

PIPING LINETYPES

- EXISTING PIPING TO REMAIN
- EXISTING PIPING TO BE REMOVED
- DOMESTIC COLD WATER PIPING
- DOMESTIC HOT WATER PIPING
- DOMESTIC HOT WATER RETURN PIPING
- SANITARY DRAIN PIPING
- SANITARY VENT PIPING
- GAS PIPING

MISCELLANEOUS SYMBOLS

- POC - POINT OF CONNECTION
- POR - POINT OF REMOVAL

PIPING SYMBOLS

- PA - PIPE ANCHOR
- PG - PIPE GUIDE
- EXPANSION JOINT
- VENTURI
- GATE VALVE
- GLOBE VALVE
- NEEDLE VALVE
- HOSE VALVE WITH CAP
- BUTTERFLY VALVE
- CHECK VALVE
- BACKFLOW PREVENTER
- BALANCING VALVE
- BALL VALVE
- PLUG VALVE
- S - SOLENOID VALVE
- SAFETY / PRESSURE RELIEF, ANGLE VALVE
- SAFETY / PRESSURE RELIEF, STRAIGHT THRU VALVE
- PRESSURE REGULATING VALVE
- AUTOMATIC CONTROL VALVE, 2 WAY
- AUTOMATIC CONTROL VALVE, 3 WAY
- LATERAL Y
- CAP
- ELBOW, 90°
- ELBOW, 90° TURNED UP
- ELBOW, 90° TURNED DOWN
- ELBOW, 45°
- TEE
- TEE, TURNED UP
- TEE, TURNED DOWN
- REDUCER, CONCENTRIC
- UNION
- STRAINER
- M - METER
- R - REGULATOR

C.O.	- CLEANOUT
F.D.	- FLOOR DRAIN
E.T.R.	- EXISTING TO REMAIN
V.T.R.	- VENT THRU ROOF

GENERAL PLUMBING NOTES:

1. PROVIDE PIPING SYSTEMS COMPLETE, UNLESS NOTED OTHERWISE. COMPLETE INSTALLATION SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL PIPE AND FITTINGS, PIPE HANGERS AND ANCHORS, EQUIPMENT, FIXTURES, SPECIALTIES, ETC. THIS CONTRACTOR SHALL COORDINATE PROVISIONS FOR PENETRATIONS IN BLOCK WALLS (I.E. SLEEVES, LINTELS, ETC.) WITH THE GENERAL CONTRACTOR.
2. THIS CONTRACTOR IS RESPONSIBLE FOR FILING ALL PERMIT APPLICATIONS AND ASSOCIATED COSTS WITH THE NECESSARY GOVERNING AUTHORITIES RELATIVE TO DOMESTIC WATER, NATURAL GAS, AND SANITARY SEWER INSTALLATION WORK ON THIS PROJECT. ALL WORK SHALL CONFORM TO ALL CODES THAT APPLY (MATERIAL AND LABOR), INCLUDING ALL CURRENT 'ADA' REQUIREMENTS WHERE APPLICABLE.
3. CONSULT THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS TO AVOID INTERFERENCES AND CONFLICTS WITH OTHER TRADES. THIS CONTRACTOR WILL BE EXPECTED TO COVER ALL REWORK COSTS DUE TO LACK OF COORDINATION BY THIS CONTRACTOR.
4. FIELD VERIFY EXISTING PIPE SIZES, LOCATIONS, RELATIVE DIMENSIONS, ETC.
5. CONCEAL PIPES WITHIN WALLS OR CHASES WHENEVER PRACTICAL.
6. MAINTAIN DIMENSIONED "AS-BUILT" DRAWINGS FOR ALL UNDERGROUND UTILITIES DURING CONSTRUCTION AND PROVIDE TO ARCHITECT AT PROJECT COMPLETION.
7. WORK SHALL CONFORM TO ASSOCIATED SPECIFICATIONS.
8. DEMONSTRATE OPERATION OF SYSTEMS AND EQUIPMENT TO THE OWNER. THE OPERATING AND SERVICE MANUALS FOR ALL EQUIPMENT SHALL BE FURNISHED TO THE OWNER.
9. PROVIDE DOMESTIC HOT AND COLD WATER DISTRIBUTION TO ALL OBVIOUSLY NECESSARY LOCATIONS INCLUDING ALL VALVES, FITTINGS, HANGERS, BACKFLOW PREVENTERS, WATER HEATERS, ETC.
10. WATER PIPING SHALL BE INSTALLED MEETING THE REQUIREMENTS OF OBC - PLUMBING CODE, LATEST EDITION, AND AS DESCRIBED BELOW.
    A. PIPING SHALL BE SUPPORTED WITH 3/8" ALL THREAD AND CLEVIS HANGERS AND IN ACCORDANCE WITH SECTION 308 OF THE OBC - PLUMBING CODE, LATEST EDITION.
    B. INSULATE NEW DOMESTIC HOT AND COLD WATER DISTRIBUTION INCLUDING FITTINGS.
    C. PROVIDE SERVICE VALVES ON DOMESTIC HOT AND COLD WATER DISTRIBUTION TO EACH FIXTURE. ALL VALVES SHALL BE LOCATED IN CONVENIENT LOCATIONS.
    D. PROVIDE WATER HAMMER ARRESTERS AT EQUIPMENT WITH QUICK CLOSING VALVES.
    E. DOMESTIC WATER PIPING SHALL BE ASTM B 88 TYPE L, HARD COPPER TUBE WITH SOLDERED FITTINGS ASME B16.18 CAST COPPER ALLOY OR ASME B16.22 WROUGHT COPPER. ALL JOINTS SHALL BE SOLDERED WITH ASTM B 32 95-5 TIN-ANTIMONY SOLDER OR APPROVED EQUAL.
    F. PIPE INSULATION SHALL BE 1" THICK WITH ALL SERVICE JACKET. THE INSULATING BLANKET SHALL HAVE A "U" VALUE OF 0.28 BTUH-IN/SQ.FT-°F AT 100°F MEAN TEMPERATURE DIFFERENCE AND A COMPOSITE FIRE AND SMOKE HAZARD RATING, AS TESTED BY PROCEDURE ASTM E-84, NFPA 255 AND UL 723, NOT EXCEEDING FLAME SPREAD 25 AND SMOKE DEVELOPED 50. PIPE INSULATION SHALL BE AS MANUFACTURED BY KNAUF OR APPROVED EQUAL ALL INSULATION JOINTS SHALL BE TIGHTLY BUTTED AND COVERED WITH 4" WIDE X .0025" FOIL TAPE ADHERED WITH LAP SEAL ADHESIVE TO PROVIDE A COMPLETE VAPOR BARRIER ENVELOPE.
11. PROVIDE SANITARY SEWER TO ALL NECESSARY LOCATIONS INCLUDING FLOOR DRAINS, CLEANOUTS, TRAPS, VENTS, ETC.
12. SANITARY SEWER SHALL BE INSTALLED MEETING THE REQUIREMENTS OF OBC - PLUMBING CODE, LATEST EDITION, AND AS DESCRIBED BELOW.
    A. SANITARY SEWER PIPE SHALL BE INSTALLED WITH 1/4" PER FOOT MINIMUM SLOPE, UNLESS NOTED OTHERWISE.
    B. EXPOSED TRAPS AND TRIM SHALL BE BRIGHT CHROME, UNLESS OTHERWISE NOTED. ALL PLUMBING FIXTURES SHALL BE WHITE, UNLESS OTHERWISE NOTED.
    C. VENTS SHALL BE LOOPED ABOVE SUSPENDED CEILING AND / OR WITHIN ATTIC TO MINIMIZE ROOF PENETRATIONS.
    D. PVC NOT ACCEPTABLE FOR VENT PIPING IN CEILING PLENUM SPACES.
    E. PVC PIPE IS ACCEPTABLE FOR WASTE AND VENT PIPING. COORDINATE PIPE MATERIALS AND CEILING PLENUMS.
    F. REFERENCE ARCHITECTURAL SHEETS FOR PLUMBING FIXTURE LOCATIONS, MOUNTING HEIGHTS, ETC.
    G. FLOOR DRAINS SHALL HAVE TRAP PRIMER CONNECTIONS, UNLESS OTHERWISE NOTED.

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plumbing general notes and legends

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SECTION 220719
PLUMBING PIPING INSULATION

1.01 REGULATORY REQUIREMENTS

A. SURFACE BURNING CHARACTERISTICS: FLAME SPREAD INDEX/SMOKE DEVELOPED INDEX OF 25/50, MAXIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723.

2.01 EXAMINATION

A. VERIFY THAT PIPING HAS BEEN TESTED BEFORE APPLYING INSULATION MATERIALS.

B. VERIFY THAT SURFACES ARE CLEAN AND DRY, WITH FOREIGN MATERIAL REMOVED.

2.02 INSTALLATION

A. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

B. INSULATED PIPES CONVEYING FLUIDS BELOW AMBIENT TEMPERATURE: INSULATE ENTIRE SYSTEM INCLUDING FITTINGS, VALVES, UNIONS, FLANGES, STRAINERS, FLEXIBLE CONNECTIONS, AND EXPANSION JOINTS.

C. FOR HOT PIPING CONVEYING FLUIDS 140 DEGREES F (60 DEGREES C) OR LESS, DO NOT INSULATE FLANGES AND UNIONS AT EQUIPMENT, BUT BEVEL AND SEAL ENDS OF INSULATION.

D. GLASS FIBER INSULATED PIPES CONVEYING FLUIDS ABOVE AMBIENT TEMPERATURE:

1. PROVIDE STANDARD JACKETS, WITH OR WITHOUT VAPOR BARRIER, FACTORY-APPLIED OR FIELD-APPLIED. SECURE WITH SELF-SEALING LONGITUDINAL LAPS AND BUTT STRIPS WITH PRESSURE-SENSITIVE ADHESIVE. SECURE WITH OUTWARD CLINCH EXPANDING STAPLES.
2. INSULATE FITTINGS, JOINTS, AND VALVES WITH INSULATION OF LIKE MATERIAL AND THICKNESS AS ADJOINING PIPE. FINISH WITH GLASS CLOTH AND ADHESIVE OR PVC FITTING COVERS.

F. CONTINUE INSULATION THROUGH WALLS, SLEEVES, PIPE HANGERS, AND OTHER PIPE PENETRATIONS. FINISH AT SUPPORTS, PROTRUSIONS, AND INTERRUPTIONS. AT FIRE SEPARATIONS, SEE SECTION 078400.

SECTION 221005
PLUMBING PIPING

2.01 GENERAL REQUIREMENTS

A. POTABLE WATER SUPPLY SYSTEMS: PROVIDE PIPING, PIPE FITTINGS, AND SOLDER AND FLUX (IF USED), THAT COMPLY WITH NSF 61 AND NSF 372 FOR MAXIMUM LEAD CONTENT; LABEL PIPE AND FITTINGS.

2.02 SANITARY WASTE PIPING, BURIED WITHIN 5 FEET (1500 MM) OF BUILDING

A. CAST IRON PIPE: ASTM A74 EXTRA HEAVY WEIGHT.

1. FITTINGS: CAST IRON.
2. JOINTS: HUBB-AND-SPIGOT, CISPI HSN COMPRESSION TYPE WITH ASTM C564 NEOPRENE GASKETS OR LEAD AND OAKUM.

B. PVC PIPE: ASTM D2665 OR ASTM D3034.

1. FITTINGS: PVC.
2. JOINTS: SOLVENT WELDED, WITH ASTM D2564 SOLVENT CEMENT.

2.03 SANITARY WASTE PIPING, ABOVE GRADE

A. CAST IRON PIPE: ASTM A74 EXTRA HEAVY WEIGHT

1. FITTINGS: CAST IRON
2. JOINT SEALS: ASTM C564 NEOPRENE GASKETS, OR LEAD AND OAKUM.

B. STEEL PIPE: ASTM A53/A53M, GRADE B, TYPE F, SCHEDULE 40, GALVANIZED.

1. THREADED JOINTS: ASME B16.4 CAST IRON FITTINGS.

C. PVC PIPE: ASTM D2729.

1. FITTINGS: PVC.
2. JOINTS: SOLVENT WELDED, WITH ASTM D2564 SOLVENT CEMENT.

2.04 DOMESTIC WATER PIPING, BURIED WITHIN 5 FEET (1500 MM) OF BUILDING

A. COPPER PIPE: ASTM B42, ANNEALED.

1. FITTINGS: ASME B16.26, CAST BRONZE.
2. JOINTS: FLARED.

2.05 DOMESTIC WATER PIPING, ABOVE GRADE

A. COPPER PIPE: ASTM B88 (ASTM B88M), TYPE K (A), DRAWN (H).

1. FITTINGS: ASME B16.18, CAST COPPER ALLOY OR ASME B16.22, WROUGHT COPPER AND BRONZE.
2. JOINTS: ASTM B32, ALLOY SN95 SOLDER.

2.10 PIPE FLANGES, UNIONS, AND COUPLINGS

A. UNIONS FOR PIPE SIZES 3 INCH (80 MM, DN) AND UNDER:

1. COPPER TUBE AND PIPE: CLASS 150 BRONZE UNIONS WITH SOLDERED JOINTS.

2.11 PIPE HANGERS AND SUPPORTS

A. PROVIDE HANGERS AND SUPPORTS THAT COMPLY WITH MSS SP-58.

1. IF TYPE OF HANGER OR SUPPORT FOR A PARTICULAR SITUATION IS NOT INDICATED, SELECT APPROPRIATE TYPE USING MSS SP-58 RECOMMENDATIONS.
2. OVERHEAD SUPPORTS: INDIVIDUAL STEEL ROD HANGERS ATTACHED TO STRUCTURE OR TO TRAPEZE HANGERS.
3. TRAPEZE HANGERS: WELDED STEEL CHANNEL FRAMES ATTACHED TO STRUCTURE.
4. VERTICAL PIPE SUPPORT: STEEL RISER CLAMP.

C. PLUMBING PIPING - DRAIN, WASTE, AND VENT:

1. HANGERS FOR PIPE SIZES 1/2 TO 1-1/2 INCH (15 TO 40 MM, DN): MALLEABLE IRON, ADJUSTABLE SWIVEL, SPLIT RING.
2. HANGERS FOR PIPE SIZES 2 INCH (50 MM, DN) AND OVER: CARBON STEEL, ADJUSTABLE, CLEVIS.
3. WALL SUPPORT FOR PIPE SIZES TO 3 INCH (80 MM, DN): CAST IRON HOOK.
4. WALL SUPPORT FOR PIPE SIZES 4 INCH (100 MM, DN) AND OVER: WELDED STEEL BRACKET AND WROUGHT STEEL CLAMP.

D. PLUMBING PIPING - WATER:

1. HANGERS FOR PIPE SIZES 1/2 TO 1-1/2 INCH (15 TO 40 MM, DN): MALLEABLE IRON, ADJUSTABLE SWIVEL, SPLIT RING.
2. HANGERS FOR COLD PIPE SIZES 2 INCH (50 MM, DN) AND OVER: CARBON STEEL, ADJUSTABLE, CLEVIS.
3. HANGERS FOR HOT PIPE SIZES 2 TO 4 INCH (50 TO 100 MM, DN): CARBON STEEL, ADJUSTABLE, CLEVIS.

3.01 PREPARATION

A. REAM PIPE AND TUBE ENDS. REMOVE BURRS. BEVEL PLAIN END FERROUS PIPE.

B. REMOVE SCALE AND DIRT, ON INSIDE AND OUTSIDE, BEFORE ASSEMBLY.

C. PREPARE PIPING CONNECTIONS TO EQUIPMENT WITH FLANGES OR UNIONS.

3.02 INSTALLATION

A. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

B. ROUTE PIPING IN ORDERLY MANNER AND MAINTAIN GRADIENT. ROUTE PARALLEL AND PERPENDICULAR TO WALLS.

C. INSTALL PIPING TO MAINTAIN HEADROOM, CONSERVE SPACE, AND NOT INTERFERE WITH USE OF SPACE.

D. GROUP PIPING WHENEVER PRACTICAL AT COMMON ELEVATIONS.

E. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT. SEE SECTION 220516.

F. PROVIDE CLEARANCE IN HANGERS AND FROM STRUCTURE AND OTHER EQUIPMENT FOR INSTALLATION OF INSULATION AND ACCESS TO VALVES AND FITTINGS.

G. COPPER PIPE AND TUBE: MAKE SOLDERED JOINTS IN ACCORDANCE WITH ASTM B828, USING SPECIFIED SOLDER, AND FLUX MEETING ASTM B813; IN POTABLE WATER SYSTEMS USE FLUX ALSO COMPLYING WITH NSF 61 AND NSF 372.

H. PVC PIPE: MAKE SOLVENT-WELDED JOINTS IN ACCORDANCE WITH ASTM D2855.

3.03 FIELD TESTS AND INSPECTIONS

A. VERIFY AND INSPECT SYSTEMS ACCORDING TO REQUIREMENTS BY THE AUTHORITY HAVING JURISDICTION. IN THE ABSENCE OF SPECIFIC TEST AND INSPECTION PROCEDURES PROCEED AS INDICATED BELOW.

B. DOMESTIC WATER SYSTEMS:

1. PERFORM HYDROSTATIC TESTING FOR LEAKAGE PRIOR TO SYSTEM DISINFECTION.
2. TEST PREPARATION: CLOSE EACH FIXTURE VALVE OR DISCONNECT AND CAP EACH CONNECTED FIXTURE.
3. GENERAL:
   a. FILL THE SYSTEM WITH WATER AND RAISE STATIC HEAD TO 10 PSI (345 KPA) ABOVE SERVICE PRESSURE. MINIMUM STATIC HEAD OF 50 TO 150 PSI (345 TO 1,034 KPA). AS AN EXCEPTION, CERTAIN CODES ALLOW A MAXIMUM STATIC PRESSURE OF 80 PSI (551.6 KPA).

3.04 DISINFECTION OF DOMESTIC WATER PIPING SYSTEM

C. DISINFECT WATER DISTRIBUTION SYSTEM IN ACCORDANCE WITH SECTION 330110.58.

D. PRIOR TO STARTING WORK, VERIFY SYSTEM IS COMPLETE, FLUSHED, AND CLEAN.

E. ENSURE ACIDITY (PH) OF WATER TO BE TREATED IS BETWEEN 7.4 AND 7.6 BY ADDING ALKALI (CAUSTIC SODA OR SODA ASH) OR ACID (HYDROCHLORIC).

F. INJECT DISINFECTANT, FREE CHLORINE IN LIQUID, POWDER, TABLET, OR GAS FORM THROUGHOUT SYSTEM TO OBTAIN 50 TO 80 MG/L RESIDUAL.

G. BLEED WATER FROM OUTLETS TO ENSURE DISTRIBUTION AND TEST FOR DISINFECTANT RESIDUAL AT MINIMUM 15 PERCENT OF OUTLETS.

H. MAINTAIN DISINFECTANT IN SYSTEM FOR 24 HOURS.

I. IF FINAL DISINFECTANT RESIDUAL TESTS LESS THAN 25 MG/L, REPEAT TREATMENT.

J. FLUSH DISINFECTANT FROM SYSTEM UNTIL RESIDUAL EQUAL TO THAT OF INCOMING WATER OR 1.0 MG/L.

K. TAKE SAMPLES NO SOONER THAN 24 HOURS AFTER FLUSHING, FROM 10 PERCENT OF OUTLETS AND FROM WATER ENTRY, AND ANALYZE IN ACCORDANCE WITH AWWA C651.

SECTION 224000
PLUMBING FIXTURES

1.01 SUBMITTALS

A. PRODUCT DATA: PROVIDE CATALOG ILLUSTRATIONS OF FIXTURES, SIZES, ROUGH-IN DIMENSIONS, UTILITY SIZES, TRIM, AND FINISHES.

1.06 DELIVERY, STORAGE, AND HANDLING

A. ACCEPT FIXTURES ON-SITE IN FACTORY PACKAGING. INSPECT FOR DAMAGE.

B. PROTECT INSTALLED FIXTURES FROM DAMAGE BY SECURING AREAS AND BY LEAVING FACTORY PACKAGING IN PLACE TO PROTECT FIXTURES AND PREVENT USE.

2.01 GENERAL REQUIREMENTS

A. POTABLE WATER SYSTEMS: PROVIDE PLUMBING FITTINGS AND FAUCETS THAT COMPLY WITH NSF 61 AND NSF 372 FOR MAXIMUM LEAD CONTENT; LABEL PIPE AND FITTINGS.

3.01 EXAMINATION

A. VERIFY THAT WALLS AND FLOOR FINISHES ARE PREPARED AND READY FOR INSTALLATION OF FIXTURES.

3.02 INSTALLATION

A. INSTALL EACH FIXTURE WITH TRAP, EASILY REMOVABLE FOR SERVICING AND CLEANING.

B. PROVIDE CHROME-PLATED RIGID OR FLEXIBLE SUPPLIES TO FIXTURES WITH LOOSE KEY STOPS, REDUCERS, AND ESCUTCHEONS.

C. INSTALL COMPONENTS LEVEL AND PLUMB.

3.03 CLEANING

D. CLEAN PLUMBING FIXTURES AND EQUIPMENT.

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office renovation for:
valley view board of education
6027 farmersville pike
germantown, ohio 45327

plumbing specifications

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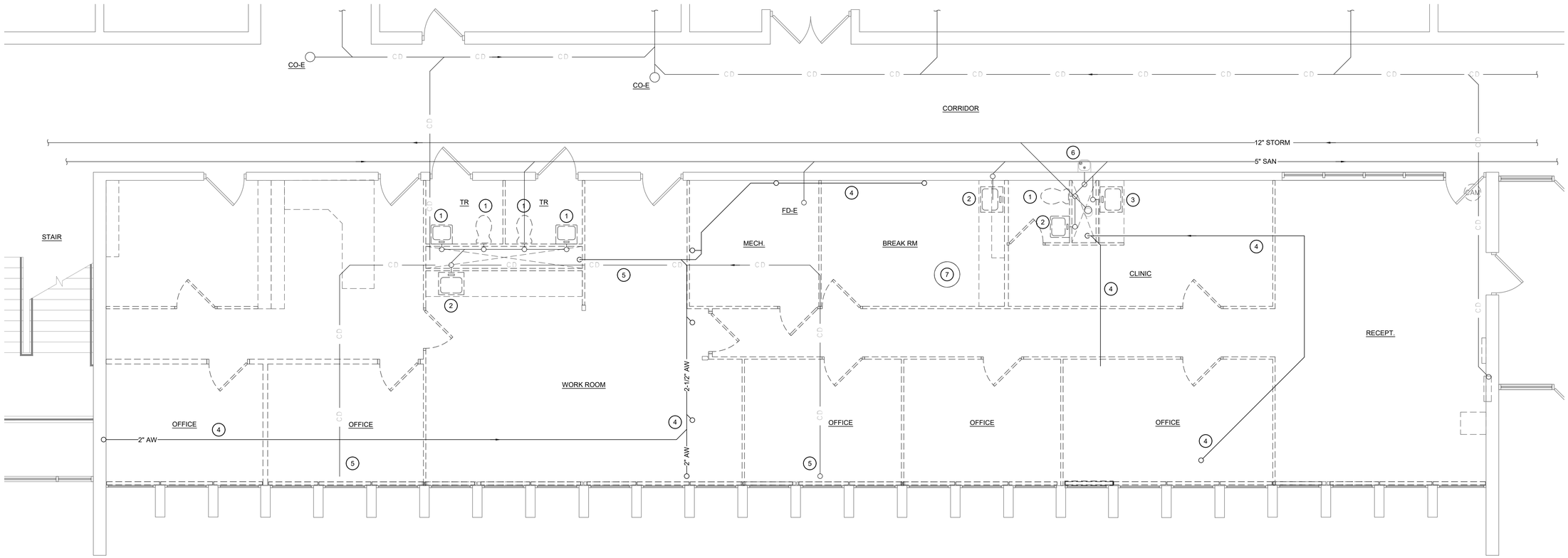
DEMOLITION NOTES:

1. DEMO EXISTING PLUMBING FIXTURE. NEW FIXTURE GOING BACK IN APPROXIMATELY THE SAME LOCATION. VERIFY DIMENSIONS WITH ARCHITECTURAL SET. REMOVE PIPE WITHIN WALL TO ACCOMODATE THE NEW WALL CONSTRUCTION AND LOCATION. CUT AND PATCH FLOOR AS NECESSARY TO MODIFY DRAIN CONNECTION AND FIXTURE CARRIER LOCATION. REFER TO FLOOR PATCHING DETAIL IN ARCHITECTURAL SET.
2. DEMO EXISTING PLUMBING FIXTURE. NEW FIXTURE WILL BE IN A NEW LOCATION. VERIFY DIMENSIONS WITH ARCHITECTURAL SET. REMOVE PIPE WITHIN WALL. SAWCUT FLOOR AND REVISE EXISTING ROUTHING AS NECESSARY TO ACCOMMODATE NEW FIXTURE LOCATION. REFER TO FLOOR PATCHING DETAIL IN ACHRITECTURAL SET. COORDINATE WITH OTHERS IF MODIFICATIONS CAN BE MADE ABOVE FLOOR WITHIN WALLS AND CABINETS.
3. DEMO EXISTING PLUMBING FIXTURE. REMOVE AND CAP SUPPLY AND DRAIN BACK TO MAINS.
4. EXISTING DRAIN PIPE IN CEILING SERVES PLUMBING FIXTURES ABOVE. PIPE TO REMAIN UNLESS OTHERWISE NOTED. LOCATIONS SHOWN ARE APPROXIMATE BASED ON ORIGIONAL BUILDING DRAWINGS AND LIMITED SITE VISITS. EXACT LOCATIONS MAY VARY.
5. EXISTING CONDENSATE DRAIN SERVES UNIT VENTILATOR ABOVE. LOCATIONS SHOWN ARE APPROXIMATE BASED ON ORIGIONAL BUILDING DRAWINGS AND LIMITED SITE VISITS. EXACT LOCATIONS MAY VARY.
6. EXISTING DRINKING FOUNTAIN TO REMAIN.
7. EXISTING MAN HOLE COVER LEADS TO WHAT IS AN ACID NEUTRALIZAITON TANK. INDICATED IN THE 1968 BUILDING DRAWINGS, ITS PURPOSE IS TO TREAT THE WASTE WATER FROM THE CHEMISTRY LABORATORIES ABOVE. WHILE THE ROOMS REMAIN TODAY, THEY ARE NO LONGER BEING USED FOR CHEMISTRY ACTIVITIES. THE PIT SHALL REMAIN IN PLACE. VERIFY IN THE FIELD THE PRECISE LOCATION OF THE PIT AND NOTIFY THE ARCHITECT AND ENGINEER OF RECORD IF THE LID WILL BE OBSTRUCTED BY THE NEW WALL.



DEMOLITION FLOOR PLAN

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

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office renovation for:
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plumbing demolition plan

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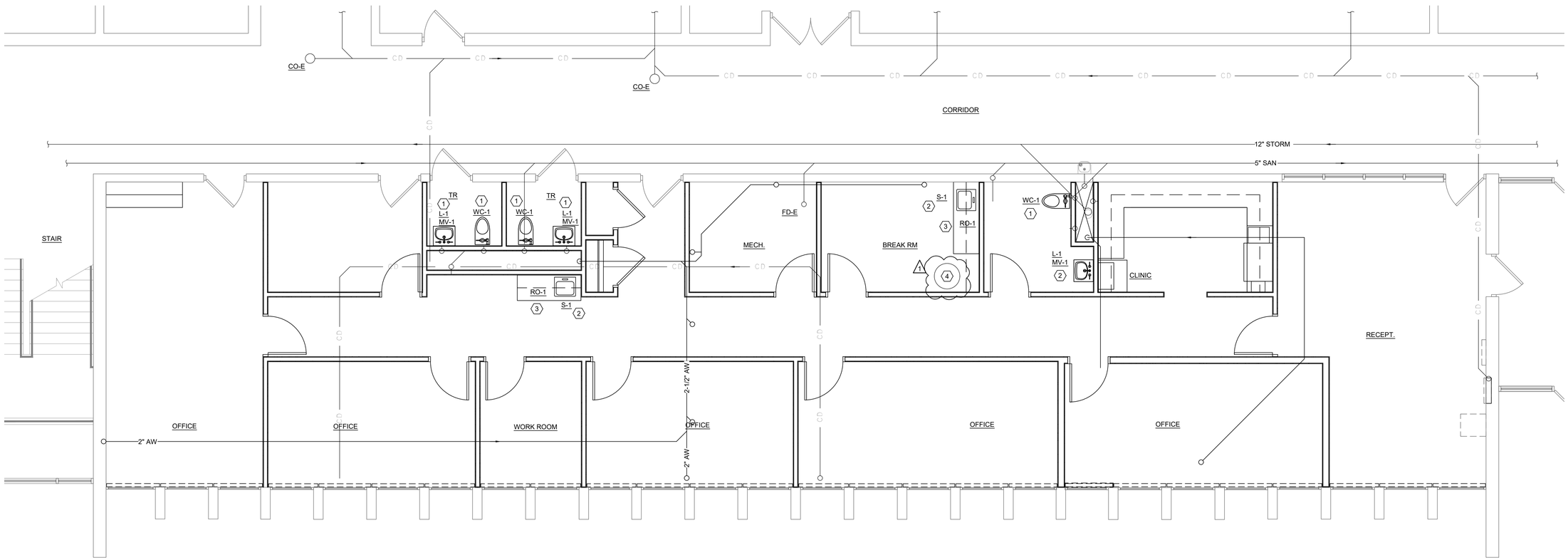
INSTALLATION NOTES:

1. PROVIDE NEW PLUMBING FIXTURE IN APPROXIMATELY THE SAME LOCATION AS THE EXISTING FIXTURE. REPLACE PIPE WITHIN WALL. PATCH FLOOR AS NECESSARY. REFER TO FLOOR PATCHING DETAIL IN ARCHITECTURAL SET. PROVIDE NEW FIXTURE CARRIER (WHERE APPLICABLE).
2. PROVIDE NEW PLUMBING FIXTURE IN NEW LOCATION. EXTEND PIPE IN WALL AND FLOOR BACK TO NEAREST TIE-IN POINT. PATCH FLOOR AS NECESSARY. REFER TO FLOOR PATCHING DETAIL IN ARCHITECTURAL SET. PROVIDE NEW FIXTURE CARRIER (WHERE APPLICABLE).
3. PROVIDE RO SYSTEM IN CABINET ADJACENT TO SINK. (SYSTEM NOT SHOWN.) PROVIDE COLD WATER LINE TO RO SYSTEM. DISCHARGE LINE TO SINK TAIL PIECE. AND FILTERED WATER SUPPLY TO SPOUT MOUNTED IN COUNTER NEXT TO SINK.
4. EXISTING MAN HOLE COVER AND BASIN TO REMAIN. GENERAL CONTRACTOR TO COVER WITH FLOORING. DRAIN SYSTEM NO LONGER BEING USED FOR CHEMISTRY LABORATORIES AND WILL NOT REQUIRE REGULAR MAINTENANCE AS IT IS NO LONGER PROVIDING NEUTRALIZATION.



NEW WORK FLOOR PLAN

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

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plumbing new work plan

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PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	MFGR	CONNECTION				CMPNT	DESCRIPTION
			SAN	VENT	HOT	COLD		
L-1	LAVATORY	AMERICAN STANDARD / WATTS	1 1/2"	1 1/2"	1/2"	1/2"	FIXTURE	AMERICAN STANDARD "DECORUM" 9024.004EC WALL-HUNG LAVATORY WITH EVERCLEAN. ADA COMPLIANT. 4" CENTERSET
							FAUCET	AMERICAN STANDARD "MONTERREY" MODEL 7545.170 TWO-HANDLE CENTERSET LAVATORY FAUCET. 4" WRIST BLADE HANDLES MEET ADA REQUIREMENTS. GOOSE NECK SPOUT DISCHARGES APPROXIMATELY 6-3/4" ABOVE THE DECK AND 5" FORWARD OF THE HANDLES. PROVIDE WITH 0.5 GPM VANDAL-RESISTANT MULTI-LAMINAR SPRAY.
							STOPS AND SUPPLIES	MCGUIRE LFBV09 SUPPLY STOPS, LEAD FREE, CHROME PLATED, QUARTER TURN BRASS BALL VALVE WITH CONVERTIBLE LOOSE KEY HANDLE. PROVIDE 127050 CHROME PLATED ESCUTCHEON, ½" COMPRESSION INLET AND ⅜" COMPRESSION OUTLET.
							TRAP	1-1/2" CHROME PLATED P-TRAP
							STRAINER	GRID STRAINER
							CARRIER	WATTS MODEL WCA-411 FLOOR MOUNTED LAVATORY CARRIER WITH CONCEALED ARMS. RATED FOR UP TO 250 LB. STATIC LOAD.
RO-1	REVERSE OSMOSIS SYSTEM	WATTS				1/2"	SYSTEM	WATTS MODEL PWRO4 4-STAGE REVERSE OSMOSIS SYSTEM. INCLUDES 5-MICRON SEDIMENT FILTER, 5-BICRON CARBON BLOCK FILTER, SEMI-PERMEABLE MEMBRANE OF 1/10,000 OF A MICRON, AND FINAL FILTER STAGE. EXPANSION TANK WITH THREE GALLON CAPACITY. SYSTEM CAN PROCESS UP TO 50 GALLON PER DAY. PROVIDE WITH FAUCET
							DRAIN	ECO-TECH DLA-12 DRAIN LINE ADAPTER. CONNECT TO TAIL PIECE OF THE SINK.
S-1	SINK (BREAK ROOMS)	ELKAY / ZURN	1-1/2"	1-1/2"	1/2"	1/2"	FIXTURE	EKAY "LUSTERTONE" MODEL LRAD191855 STAINLESS STEEL DROP-IN SINK. 18 GAUGE 304 STAINLESS STEEL. BOWL IS 16" WIDE X 11-1/2" FRONT-TO-BACK X 5-1/2" DEEP. OVERALL DIMENSION IS 19" X 18" X 5-1/2" DEEP. PROVIDE WITH 3 HOLES ON 4" CENTERS.
							FAUCET	ZURN MODEL Z831C4-XL WIDESPREAD GOOSENECK FAUCET WITH 4" WRISTBLADE HANDLES, RIGID SPOUT, AND DISCHARGE 7" ABOVE DECK. PROVIDE WITH 0.5 GPM FLOW CONTROL.
							STOPS AND SUPPLIES	MCGUIRE LFBV09 SUPPLY STOPS, LEAD FREE, CHROME PLATED, QUARTER TURN BRASS BALL VALVE WITH CONVERTIBLE LOOSE KEY HANDLE. PROVIDE 127050 CHROME PLATED ESCUTCHEON, ½" COMPRESSION INLET AND ⅜" COMPRESSION OUTLET.
							TRAP	1-1/2" WASTE AND 1-1/2" PVC DWV P-TRAP.
							STRAINER	ELKAY MODEL LKP99
WC-1	WATER CLOSET	AMERICAN STANDARD	3"	1-1/2"		1"	FIXTURE	AMERICAN STANDARD #2257.101 ELONGATED TOILET WITH TOP SPUD+, VITREOUS CHINA, WALL-MOUNTED, 1.28 GPF, WATERSENSE CERTIFIED.
							FLUSH VALVE	SLOAN REGAL 111-1.28 MANUAL FLUSH VALVE, 1.28 GPF, 1" SUPPLY CONNECTION.
							SEAT	AMERICAN STANDARD #5901.100 COMMERCIAL HEAVY DUTY PLASTIC TOILET SEAT, ELONGATED OPEN FRONT LESS COVER.
							CARRIER	WATTS MODEL ISCA-123 SINGLE VERTICAL 750 LB. CLOSET CARRIER. ADJUSTABLE CARRIER CONSTRUCTED OF EPOXY COADED CAST IRON. CARRIER COMPLIES WITH REQUIREMENTS OF ASME A112.6.1M FOR UP TO A 750 LB. STATIC LOAD.

PLUMBING PIPING SPECIALTIES

MARK	FIXTURE	MANUFACTURER	CONNECTION		DESCRIPTION
			SYSTEM	SIZE	
MV-1	MIXING VALVE	PROFLO	HOT/COLD	3/8"	PROFLO MODEL PFMVTD38 THERMOSTATIC MIXING VALVE. MINIMUM FLOW 0.25 GPM. ASSE 1070 COMPLIANT. 1.9 GPM FLOW AT A 10 PSI PRESSURE DROP. TEMPERATURE ADJUSTMENT RANGE 80F TO 120F. SET TEMPERATURE TO 100F.

issued

PERMIT DRAWINGS

revised

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valley view board of education
6027 farmersville pike
germantown, ohio 45327

plumbing schedules

project number
251431
date
1/23/2026
drawn by
JEY
checked by
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sheet
P6.1

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SINGLE LINE DUCTWORK SYMBOLS

- 12x6 - RECTANGULAR DUCT (FIRST FIGURE IS FOR SIDE SHOWN, SECOND FIGURE IS FOR SIDE NOT SHOWN)
- 8"Ø - ROUND DUCT
- 36x18Ø - FLAT OVAL DUCT (FIRST FIGURE IS FOR SIDE SHOWN, SECOND FIGURE IS FOR SIDE NOT SHOWN)
- FLEXIBLE ROUND DUCT
- FLEXIBLE DUCT CONNECTION
- VOLUME DAMPER
- M - MOTORIZED DAMPER
- BDD - BACK DRAFT DAMPER
- FD - FIRE DAMPER, 1 1/2 HOUR FIRE RATED
- 3FD - FIRE DAMPER, 3 HOUR FIRE RATED
- FSD - COMBINATION FIRE/SMOKE DAMPER
- SD - SMOKE DAMPER
- DUCT TRANSITION
- R - INCLINED RISE WITH RESPECT TO AIR FLOW, RECTANGULAR
- D - INCLINED DROP WITH RESPECT TO AIR FLOW, RECTANGULAR
- R - INCLINED RISE WITH RESPECT TO AIR FLOW, ROUND OR FLAT OVAL
- D - INCLINED DROP WITH RESPECT TO AIR FLOW, ROUND OR FLAT OVAL
- 90° ELBOW (SMOOTH OR 5 PIECE ELBOW)
- 45° ELBOW (SMOOTH OR 3 PIECE ELBOW)
- DF - DIVIDED FLOW FITTING, RECTANGULAR
- RECTANGULAR TAP-IN BRANCH OR ROUND OR FLAT OVAL CONICAL TEE
- INCLINED CONICAL TAKE-OFF, ROUND OR FLAT OVAL
- "Y" FITTING, ROUND OR FLAT OVAL
- 90° ELBOW TURNED UP, RECTANGULAR
- 90° ELBOW TURNED DOWN, RECTANGULAR
- 90° ELBOW TURNED UP, ROUND; FLAT OVAL SIMILAR
- 90° ELBOW TURNED DOWN, ROUND; FLAT OVAL SIMILAR
- SPS - STATIC PRESSURE SENSOR
- END OF DUCT RUN
- T - THERMOSTAT
- # - TERMINAL REHEAT BOX

PIPING LINETYPES

- EXISTING PIPING TO REMAIN
- EXISTING PIPING TO BE REMOVED
- RS - REFRIGERANT SUPPLY PIPING
- RR - REFRIGERANT RETURN PIPING
- HWS - HOT WATER SUPPLY PIPING
- HWR - HOT WATER RETURN PIPING
- CWS - CHILLED WATER SUPPLY PIPING
- CWR - CHILLED WATER RETURN PIPING
- G - GAS PIPING

MISCELLANEOUS SYMBOLS

- POC - POINT OF CONNECTION
- POR - POINT OF REMOVAL

DOUBLE LINE DUCTWORK SYMBOLS

- 12x6 - RECTANGULAR DUCT (FIRST FIGURE IS FOR SIDE SHOWN, SECOND FIGURE IS FOR SIDE NOT SHOWN)
- 12"Ø - ROUND DUCT
- 12x6Ø - FLAT OVAL DUCT (FIRST FIGURE IS FOR SIDE SHOWN, SECOND FIGURE IS FOR SIDE NOT SHOWN)
- FLEXIBLE DUCT CONNECTION
- VOLUME DAMPER
- M - MOTORIZED DAMPER
- BDD - BACK DRAFT DAMPER
- FD - FIRE DAMPER, 1 1/2 HOUR FIRE RATED
- 3FD - FIRE DAMPER, 3 HOUR FIRE RATED
- FSD - COMBINATION FIRE/SMOKE DAMPER
- SD - SMOKE DAMPER
- DUCT TRANSITION, ROUND OR FLAT OVAL TO RECTANGULAR
- DUCT TRANSITION, RECTANGULAR TO ROUND OR FLAT OVAL
- DUCT TRANSITION, RECTANGULAR, ROUND, OR FLAT OVAL
- R - INCLINED RISE WITH RESPECT TO AIR FLOW, RECTANGULAR
- D - INCLINED DROP WITH RESPECT TO AIR FLOW, RECTANGULAR
- R - INCLINED RISE WITH RESPECT TO AIR FLOW, ROUND OR FLAT OVAL
- D - INCLINED DROP WITH RESPECT TO AIR FLOW, ROUND OR FLAT OVAL
- 90° ELBOW (SMOOTH OR 5 PIECE ELBOW)
- 45° ELBOW (SMOOTH OR 3 PIECE ELBOW)
- TAP-IN BRANCH, RECTANGULAR
- BRANCH DUCT, CONICAL LATERAL FITTING, ROUND OR FLAT OVAL
- BRANCH DUCT, CONICAL TEE FITTING, ROUND OR FLAT OVAL
- BRANCH DUCT, "Y" FITTING, ROUND OR FLAT OVAL
- SUPPLY DUCT SECTION, RECTANGULAR
- RETURN DUCT SECTION, RECTANGULAR
- EXHAUST DUCT SECTION, RECTANGULAR
- 90° ELBOW TURNED UP, RECTANGULAR
- 90° ELBOW TURNED DOWN, RECTANGULAR
- 90° ELBOW TURNED UP, ROUND; FLAT OVAL SIMILAR
- 90° ELBOW TURNED DOWN, ROUND; FLAT OVAL SIMILAR
- SUPPLY AIR DEVICE (ARROWS INDICATE THROW DIRECTIONS, NO THROWS INDICATE 4-WAY THROW.
- RETURN AIR DEVICE
- EXHAUST AIR DEVICE

PIPING SYMBOLS

- PA - PIPE ANCHOR
- PG - PIPE GUIDE
- EXPANSION JOINT
- VENTURI
- VALVE (GENERIC; BALL VALVE U.N.O.)
- GLOBE VALVE
- GATE VALVE
- NEEDLE VALVE
- HOSE VALVE WITH CAP
- BUTTERFLY VALVE
- CHECK VALVE
- BACKFLOW PREVENTER
- BALANCING VALVE
- BALL VALVE
- PLUG VALVE
- S - SOLENOID VALVE
- SAFETY / PRESSURE RELIEF, ANGLE VALVE
- SAFETY / PRESSURE RELIEF, STRAIGHT THRU VALVE
- PRESSURE REGULATING VALVE
- AUTOMATIC CONTROL VALVE, 2 WAY
- AUTOMATIC CONTROL VALVE, 3 WAY
- LATERAL Y
- CAP
- ELBOW, 90°
- ELBOW, 90° TURNED UP
- ELBOW, 90° TURNED DOWN
- ELBOW, 45°
- TEE
- TEE, TURNED UP
- TEE, TURNED DOWN
- REDUCER, CONCENTRIC
- UNION
- STRAINER
- M - METER
- R - REGULATOR

GENERAL MECHANICAL NOTES:

1. UNLESS NOTED OTHERWISE, THIS CONTRACTOR SHALL PROVIDE AND INSTALL THE HVAC SYSTEMS, EXHAUST SYSTEMS, AND RADIANT HEATING SYSTEM COMPLETE. THE INSTALLATION SHALL INCLUDE, BUT NOT LIMITED TO, ALL DUCTWORK AND FITTINGS, EQUIPMENT, DIFFUSERS, SMOKE DETECTORS, THERMOSTATS AND 24 VAC WIRING, ROOF AND/OR WALL PENETRATIONS, TESTING AND BALANCING, ETC. CONTRACTOR SHALL COORDINATE PROVISIONS FOR PENETRATIONS IN BLOCK WALLS (I.E. SLEEVES, LINTELS, ETC.) WITH THE GENERAL CONTRACTOR.
2. THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS AND INSPECTIONS. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL CODES.
3. IT IS INTENDED THAT WORK COVERED BY SPECIFICATIONS AND DRAWINGS INCLUDES EVERYTHING REQUISITE AND NECESSARY TO MAKE VARIOUS SYSTEMS COMPLETE AND OPERATIVE, IRRESPECTIVE OF WHETHER OR NOT EVERY ITEM IS SPECIFICALLY NOTED. OMISSION OF DIRECT REFERENCE TO ANY ESSENTIAL ITEM SHALL NOT EXCUSE CONTRACTOR FROM COMPLYING WITH ABOVE INTENT.
4. CONSULT THE ARCHITECTURAL, PLUMBING, AND ELECTRICAL DRAWINGS TO AVOID INTERFERENCES AND CONFLICTS WITH OTHER TRADES. THIS CONTRACTOR WILL BE EXPECTED TO COVER ALL REWORK COSTS DUE TO LACK OF COORDINATION.
5. IN GENERAL, THE DRAWINGS SHOW THE DESIRED DUCT ROUTING LOCATION PLUS FITTINGS AND CONNECTIONS. THE DUCT AND ASSOCIATED EQUIPMENT CAN BE LOWERED OR RAISED AS NECESSARY TO ACCOMMODATE MINOR FIELD CONDITIONS. THE CONTRACTOR SHALL NOTE ALL CHANGES ON DRAWINGS AND RETURN MARKED UP DRAWINGS TO THE OWNER.
6. FIELD VERIFY EXISTING CONDITIONS AND MAKE ADJUSTMENTS AS NECESSARY BEFORE BEGINNING WORK.
7. CONDUCT OPERATIONS IN STRICT ACCORDANCE WITH SAFETY REQUIREMENTS IMPOSED BY THE OWNER AND OSHA.
8. KEEP WORK AREA CLEAN, REMOVE DEBRIS FROM THE OWNER'S PROPERTY, AND DISPOSE OF SAME ACCORDING TO LOCAL REGULATIONS.
9. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE, AND REPAIR; MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS. CHANGES SHALL NOT BE MADE WITHOUT APPROVAL OF THE OWNER.
10. DEMONSTRATE OPERATION OF SYSTEMS AND EQUIPMENT TO THE OWNER. THE OPERATING AND SERVICE MANUALS FOR ALL EQUIPMENT SHALL BE FURNISHED TO THE OWNER.
11. DUCT SHALL BE CONSTRUCTED AND INSTALLED MEETING THE REQUIREMENTS OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE, LATEST EDITION, AND AS DESCRIBED BELOW.
    - A. HANGERS SHALL BE PROVIDED A MAXIMUM OF EVERY 8'-0", AT ROOF PENETRATIONS AND AT ALL ELBOWS. ALL DUCT SHALL BE SELF-SUPPORTING AND NOT REQUIRE CONNECTING EQUIPMENT FOR SUPPORT.
    - B. ALIGN, ADJUST, AND LEVEL ALL DUCT FOR SATISFACTORY OPERATION. IF A SLOPE IS SPECIFIED, ALIGN AND ADJUST TO MEET STATED REQUIREMENTS.
    - C. REINFORCE ALL DUCTS TO PREVENT BREATHING, VIBRATING, BUCKLING, OR UNNECESSARY NOISE AS REQUIRED TO SATISFY PROJECT REQUIREMENTS.
    - D. DUCT AND PLENUM SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS, UNLESS NOTED OTHERWISE. IT IS ACCEPTABLE TO CHANGE DUCT SIZES WHEN THE CROSS-SECTIONAL AREA IS MAINTAINED.
    - E. THE INTERIOR OF ALL DUCTS AND PLENUMS SHALL BE SMOOTH AND FREE OF OBSTRUCTIONS, BURRS, AND SHARP EDGES.
    - F. RECTANGULAR ELBOWS SHALL HAVE DOUBLE THICKNESS TURNING VANES, INCLUDING DISCHARGE AND RETURN PLENUM BRANCHES.
    - G. CONCENTRIC TRANSITIONS SHALL HAVE A MAXIMUM TOTAL ANGLE OF 45° CONVERGING AND 30° DIVERGING FOR LARGEST DIMENSION.
    - H. SHEET METAL DUCT JOINTS SHALL BE SEALED WITH AN APPROVED DUCT SEALANT.
    - I. FLEXIBLE DUCT CONNECTIONS SHALL BE CAULKED AND SEALED AIR TIGHT USING A DRAW BAND. THE MAXIMUM LENGTH OF FLEXIBLE DUCT RUNS SHALL BE 6'-0". FLEXIBLE DUCT SHALL NOT HAVE MORE THAN AN AGGREGATE TOTAL OF 90° CHANGE IN DIRECTION, WITH A BEND NOT LESS THAN 1.5 DUCT DIAMETER CENTERLINE RADIUS.
    - J. ROUND DUCT TAKE-OFFS SHALL HAVE SPIN-IN TYPE FITTINGS WITH BALANCING DAMPERS, WITH STAND-OFFS FOR INSULATION.
    - K. AIR DEVICES SHALL BE CONNECTED WITH 3 DUCT DIAMETERS OF STRAIGHT DUCT. IN AREAS WHERE SPACE IS LIMITED A SHEET METAL ELBOW SHALL BE CONNECTED TO AIR DEVICE.
12. NEW SHEET METAL DUCT TO BE ASTM A526 PRIME GALVANIZED SHEET METAL (SHEET AND STRIP) OF THE PROPER GAGE.
13. PROVIDE A SECONDARY DRAIN PAN WITH FLOAT SWITCH FOR ALL AIR CONDITIONING EQUIPMENT TO BE INSTALLED ABOVE A SUSPENDED CEILING. THE SECONDARY DRAIN PAN SHALL BE GALVANIZED STEEL WITH SOLDERED CORNERS AND 2" MINIMUM COLLECTION DEPTH. THE FLOAT SWITCH SHALL BE WIRED WITH AIR CONDITIONING EQUIPMENT TO DISABLE CONTINUED OPERATION.
14. THE EQUIPMENT AND MATERIALS SPECIFIED ON THE DRAWINGS ESTABLISH THE MINIMUM STANDARDS AND BASIS FOR THE BID. ALTERNATE MANUFACTURERS AND METHODS MUST BE APPROVED PRIOR TO SUBMISSION OF BID.

DUCT INSULATION SCHEDULE

DUCTWORK SERVICE	EXPOSED IN OCCUPIED SPACE													ABOVE CEILING / CONDITIONED ATTIC												NON-CONDITIONED ATTIC												OUTSIDE BUILDING												NOTES
	MINIMUM R-VALUE				INSULATION LOCATION				JACKET					MINIMUM R-VALUE			INSULATION LOCATION			JACKET						MINIMUM R-VALUE			INSULATION LOCATION			JACKET						MINIMUM R-VALUE			INSULATION LOCATION			JACKET						
	N/A	R-6	R-8	R-12	N/A	LINING	WRAP	DBL WALL - SOLID	DBL WALL - PERF.	N/A	PVC	ALL SERVICE	ALUMINUM	STAINLESS STEEL	FOIL FILM	N/A	R-6	R-8	R-12	N/A	LINING	WRAP	DBL WALL - SOLID	DBL WALL - PERF.	N/A	PVC	ALL SERVICE	ALUMINUM	STAINLESS STEEL	FOIL FILM	N/A	R-6	R-8	R-12	N/A	LINING	WRAP	DBL WALL - SOLID	DBL WALL - PERF.	N/A	PVC	ALL SERVICE	ALUMINUM	STAINLESS STEEL	FOIL FILM	SELF ADHESIVE	
SUPPLY		●							●			●					●						●	●						●																		1-6
RETURN	●				●						●					●						●	●						●																		1-6
EXHAUST	●				●						●					●						●	●						●																		1-6
OUTSIDE AIR			●						●			●						●					●	●						●																		1-6
VENTILATION		●							●			●					●						●	●						●																		1-6
RELIEF	●				●						●					●						●	●						●																		1-6

NOTES:
1. ALL INSULATION JOINTS SHALL BE TIGHTLY BUTTED AND COVERED WITH TAPE TO PROVIDE A COMPLETE VAPOR BARRIER ENVELOPE.
2. INSULATION AND JACKET MATERIAL LOCATED IN OCCUPIED SPACES OR WITHIN RETURN AIR PLENUMS SHALL HAVE A COMPOSITE FIRE AND SMOKE HAZARD RATING, AS TESTED BY PROCEDURE ASTM E-84, NFPA 255 AND UL 723, NOT EXCEEDING FLAME SPREAD 25 AND SMOKE DEVELOPED 50.
3. IF DUCTWORK IS LINED, EXTERIOR INSULATION IS NOT REQUIRED AND NO JACKET IS REQUIRED.
4. INSULATION LOCATION AND JACKETS MAY BE ONE OF THE INDICATED TYPES.
5. EXTERIOR DUCT INSULATION SHALL HAVE A JACKET AND AN EXTERIOR WEATHER RESISTANT COVER. SELECT ONE JACKET AND ONE COVER.
6. FLEXIBLE DUCTWORK SHALL HAVE A CPE INNER LINER AND A COVER OF METALIZED POLYESTER FILM LAMINATED TO A GLASS MESH WITH AN ELASTOMER BACK COATING AND SHALL HAVE THE SIZE AND R-VALUE PRINTED FOR EASY REFERENCE.

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office renovation for:
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mechanical general notes and legends

project number
251431
date
1/23/2026
drawn by
JEY
checked by
BHF

sheet
M0.1

MECHANICAL SPECIFICATIONS:

SECTION 230553
IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT

1.0 IDENTIFICATION APPLICATIONS

A. AIR HANDLING UNITS: NAMEPLATES.

B. HOT WATER COILS: TAGS.

C. VALVES: TAGS

2.1 NAMEPLATES

A. LETTER COLOR: WHITE.

B. LETTER HEIGHT: 1/4 INCH (6 MM).

C. BACKGROUND COLOR: BLACK.

D. PLASTIC: COMPLY WITH ASTM D709.

2.2 TAGS

A. PLASTIC TAGS: LAMINATED THREE-LAYER PLASTIC WITH ENGRAVED BLACK LETTERS ON LIGHT CONTRASTING BACKGROUND COLOR. TAG SIZE MINIMUM 1-1/2 INCH (40 MM) DIAMETER.

3.01 INSTALLATION

A. INSTALL NAMEPLATES WITH CORROSIVE-RESISTANT MECHANICAL FASTENERS, OR ADHESIVE. APPLY WITH SUFFICIENT ADHESIVE TO ENSURE PERMANENT ADHESION AND SEAL WITH CLEAR LACQUER.

B. INSTALL TAGS WITH CORROSION RESISTANT CHAIN.

SECTION 230593
TESTING, ADJUSTING, AND BALANCING FOR HVAC

1.03 SUBMITTALS

A. FINAL REPORT: INDICATE DEFICIENCIES IN SYSTEMS THAT WOULD PREVENT PROPER TESTING, ADJUSTING, AND BALANCING OF SYSTEMS AND EQUIPMENT TO ACHIEVE SPECIFIED PERFORMANCE.

1. REVISE TAB PLAN TO REFLECT ACTUAL PROCEDURES AND SUBMIT AS PART OF FINAL REPORT.
2. SUBMIT DRAFT COPIES OF REPORT FOR REVIEW PRIOR TO FINAL ACCEPTANCE OF PROJECT. PROVIDE FINAL COPIES FOR ARCHITECT AND FOR INCLUSION IN OPERATING AND MAINTENANCE MANUALS.
3. INCLUDE ACTUAL INSTRUMENT LIST, WITH MANUFACTURER NAME, SERIAL NUMBER, AND DATE OF CALIBRATION.
4. FORM OF TEST REPORTS: WHERE THE TAB STANDARD BEING FOLLOWED RECOMMENDS A REPORT FORMAT USE THAT; OTHERWISE, FOLLOW ASHRAE STD 111.
5. UNITS OF MEASURE: REPORT DATA IN BOTH I-P (INCH-POUND) AND SI (METRIC) UNITS.

3.02 EXAMINATION

A. VERIFY THAT SYSTEMS ARE COMPLETE AND OPERABLE BEFORE COMMENCING WORK. ENSURE THE FOLLOWING CONDITIONS:

1. SYSTEMS ARE STARTED AND OPERATING IN A SAFE AND NORMAL CONDITION.
2. TEMPERATURE CONTROL SYSTEMS ARE INSTALLED COMPLETE AND OPERABLE.
3. PROPER THERMAL OVERLOAD PROTECTION IS IN PLACE FOR ELECTRICAL EQUIPMENT.
4. FINAL FILTERS ARE CLEAN AND IN PLACE. IF REQUIRED, INSTALL TEMPORARY MEDIA IN ADDITION TO FINAL FILTERS.
5. DUCT SYSTEMS ARE CLEAN OF DEBRIS.
6. FANS ARE ROTATING CORRECTLY.
7. FIRE AND VOLUME DAMPERS ARE IN PLACE AND OPEN.
8. AIR COIL FINS ARE CLEANED AND COMBED.
9. AIR OUTLETS ARE INSTALLED AND CONNECTED.
10. DUCT SYSTEM LEAKAGE IS MINIMIZED.

3.04 ADJUSTMENT TOLERANCES

A. AIR HANDLING SYSTEMS: ADJUST TO WITHIN PLUS OR MINUS 5 PERCENT OF DESIGN FOR SUPPLY SYSTEMS AND PLUS OR MINUS 10 PERCENT OF DESIGN FOR RETURN AND EXHAUST SYSTEMS.

B. AIR OUTLETS AND INLETS: ADJUST TOTAL TO WITHIN PLUS 10 PERCENT AND MINUS 5 PERCENT OF DESIGN TO SPACE. ADJUST OUTLETS AND INLETS IN SPACE TO WITHIN PLUS OR MINUS 10 PERCENT OF DESIGN.

C. WATER FLOW: ADJUST TO WITHIN PLUS OR MINUS 10 PERCENT OF DESIGN.

3.07 SCOPE

A. TEST, ADJUST, AND BALANCE THE FOLLOWING:

1. SPLIT SYSTEM AIR HANDLING UNIT.
2. IN-DUCT HOT WATER COILS.
3. FIN TUBE.
4. AIR INLETS AND OUTLETS.

SECTION 230713
DUCT INSULATION

1.04 SUBMITTALS

A. PRODUCT DATA: PROVIDE PRODUCT DESCRIPTION, THERMAL CHARACTERISTICS, LIST OF MATERIALS AND THICKNESS FOR EACH SERVICE, AND LOCATIONS.

2.01 REGULATORY REQUIREMENTS

A. SURFACE BURNING CHARACTERISTICS: FLAME SPREAD INDEX/SMOKE DEVELOPED INDEX OF 25/50, MAXIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723.

2.02 GLASS FIBER, FLEXIBLE

A. INSULATION: ASTM C553; FLEXIBLE, NONCOMBUSTIBLE BLANKET.

1. MAXIMUM SERVICE TEMPERATURE: 1,200 DEGREES F (649 DEGREES C).
2. MAXIMUM WATER VAPOR ABSORPTION: 5.0 PERCENT BY WEIGHT.

B. VAPOR BARRIER JACKET:

1. KRAFT PAPER WITH GLASS FIBER YARN AND BONDED TO ALUMINIZED FILM.
2. MOISTURE VAPOR PERMEABILITY: 0.02 PERM INCH (0.029 NG/(PA S M)), WHEN TESTED IN ACCORDANCE WITH ASTM E96/E96M.
3. SECURE WITH PRESSURE-SENSITIVE TAPE.

3.01 EXAMINATION

A. TEST DUCTWORK FOR DESIGN PRESSURE PRIOR TO APPLYING INSULATION MATERIALS.

B. VERIFY THAT SURFACES ARE CLEAN, FOREIGN MATERIAL REMOVED, AND DRY.

3.02 INSTALLATION

A. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

B. INSULATED DUCTS CONVEYING AIR BELOW AMBIENT TEMPERATURE:

1. PROVIDE INSULATION WITH VAPOR BARRIER JACKETS.
2. FINISH WITH TAPE AND VAPOR BARRIER JACKET.
3. CONTINUE INSULATION THROUGH WALLS, SLEEVES, HANGERS, AND OTHER DUCT PENETRATIONS.
4. INSULATE ENTIRE SYSTEM, INCLUDING FITTINGS, JOINTS, FLANGES, FIRE DAMPERS, FLEXIBLE CONNECTIONS, AND EXPANSION JOINTS.

SECTION 230923
DIRECT DIGITAL CONTROL SYSTEM FOR HVAC

1.0 SYSTEM DESCRIPTION

A. EXISTING SYSTEM TO BE INTEGRATED INTO

A.A. SYSTEM PLATFORM: TRIDIUM NIAGARA

A.B. OWNER'S CONTROLS CONTRACTOR: POINT TO POINT SYSTEMS 1-800-685-2082

B. AUTOMATIC TEMPERATURE CONTROL FIELD MONITORING AND CONTROL SYSTEM USING FIELD PROGRAMMABLE MICRO-PROCESSOR BASED UNITS.

C. BASE SYSTEM ON DISTRIBUTED SYSTEM OF FULLY INTELLIGENT, STAND-ALONE CONTROLLERS, OPERATING IN A MULTI-TASKING, MULTI-USER ENVIRONMENT ON TOKEN PASSING NETWORK, WITH CONTRAL AND REMOTE HARDWARE, SOFTWARE, AND INTERCONNECTING WIRE AND CONDUIT.

D. INCLUDE OPERATOR INPUT / OUTPUT DEVICES, CONTROL UNITS, LOCAL AREA NETWORKS, SENSORS, CONTROL DEVICES, ACTUATORS.

E. CONTROLS FOR RADIATION, REHEAT COILS, FAN COILS, AND THE LIKE WHEN DIRECTLY CONNECTED TO THE CONTROL UNITS.

F. PROVIDE CONTROL SYSTEMS CONSISTING OF THERMOSTATS, CONTROL VALVES, DAMPERS AND OPERATORS, INDICATING DEVICES, INTERFACE EQUIPMENT AND OTHER APPARATUS AND ACCESSORIES REQUIRED TO OPERATE MECHANICAL SYSTEMS. AND TO PERFORM FUNCTIONS SPECIFIED.

G. INCLUDE INSTALLATION AND CALIBRATION, SUPERVISION, ADJUSTMENTS, AND FINE TUNING NECESSARY FOR COMPLETE AND FULLY OPERATIONAL SYSTEM.

2.0 EXECUTION

2.01 EXAMINATION

A. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK

B. VERIFY THAT CONDITIONAL POWER SUPPLY IS AVAILABLE TO THE CONTROL. VERIFY THAT FIELD END DEVICES, AND WIRING IS INSTALLED PRIOR TO INSTALLATION PROCEEDING.

2.02 INSTALLATION.

A. INSTALL CONTROL UNITS AND OTHER HARDWARE IN POSITION ON PERMANENT WALLS WHERE NOT SUBJECT TO EXCESSIVE VIBRATION.

B. PROVIDE CONDUIT AND ELECTRICAL WIRING IN ACCORDANCE WITH SECTION 260583. ELECTRICAL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH APPROPRIATE REQUIREMENTS.

2.03 DEMONSTRATION AND INSTRUCTIONS

A. DEMONSTRATE COMPLETE AND OPERATING SYSTEM TO OWNER.

SECTION 232113
HYDRONIC PIPING

1.01 SUBMITTALS

A. INCLUDE DATA ON PIPE MATERIAL, FITTINGS, VALVES, AND ACCESSORIES.

2.01 HYDRONIC SYSTEM REQUIREMENTS

A. PIPING: PROVIDE PIPING, FITTINGS, HANGERS, AND SUPPORTS AS REQUIRED, AS INDICATED, AND AS FOLLOWS:

A.A. WHERE MORE THAN ONE PIPING SYSTEM MATERIAL IS SPECIFIED, PROVIDE JOINING FITTINGS THAT ARE COMPATIBLE WITH PIPING MATERIALS AND ENSURE THAT THE INTEGRITY OF THE SYSTEM IS NOT JEOPARDIZED.

A.B. USE NON-CONDUCTING DIELECTRIC CONNECTIONS WHERE JOINTING DISSIMILAR METALS.

B. PIPE-TO-VALVE AND PIPE-TO-EQUIPMENT CONNECTIONS: USE FLANGES OR UNIONS TO ALLOW DISCONNECTION OF COMPONENTS FOR SERVICING; DO NOT USE DIRECT WELDED, SOLDERED, OR THREADED CONNECTIONS.

2.02 HEATING WATER PIPING, ABOVE GRADE

A. STEEL PIPE: ASTM A53/A53M, SCHEDULE 40, BLACK, THREADED OR WELDED JOINTS.

B. COPPER TUBE: ASTM B88, TYPE K, DRAWN, USING MECHANICAL PRESS SEALED FITTINGS.

3.01 PREPARATION

A. REAM PIPE AND TUBE ENDS. REMOVE BURRS. BEVEL PLAIN END FERROUS PIPE.

B. REMOVE SCALE AND DIRT ON INSIDE AND OUTSIDE BEFORE ASSEMBLY.

C. AFTER COMPLETION, FILL, CLEAN, AND TREAT SYSTEM.

3.02 INSTALLATION

A. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTALLATIONS.

B. ROUTE PIPING IN ORDERLY MANNER, PARALLEL TO BUILDING STRUCTURE, AND MAINTAIN GRADIENT.

C. INSTALL PIPING TO CONSERVE BUILDING SPACE AND TO AVOID INTERFERENCE WITH USE OF SPACE.

D. GROUP PIPING WHENEVER PRACTICAL AT COMMON ELEVATIONS.

E. SLOPE PIPING AND ARRANGE TO DRAIN AT LOW POINTS.

SECTION 232300
REFRIGERANT PIPING

1.01 PIPING

A. COPPER TUBE: ASTM B280, H58 HARD DRAWN OR O60 SOFT ANNEALED.

2.01 INSTALLATION

A. INSTALL REFRIGERATION SPECIALTIES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

B. ROUTE PIPING IN ORDERLY MANNER, WITH PLUMBING PARALLEL TO BUILDING STRUCTURE, AND MAINTAIN GRADIENT.

C. INSTALL PIPING TO CONSERVE BUILDING SPACE AND AVOID INTERFERENCE WITH USE OF SPACE.

D. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT.

E. PIPE HANGERS AND SUPPORTS:

1. INSTALL IN ACCORDANCE WITH ASME B31.5.
2. INSTALL HANGERS TO PROVIDE MINIMUM 1/2 INCH (13 MM) SPACE BETWEEN FINISHED COVERING AND ADJACENT WORK.
3. PLACE HANGERS WITHIN 12 INCHES (300 MM) OF EACH HORIZONTAL ELBOW.

SECTION 233100
HVAC DUCTS AND CASINGS

2.01 GENERAL REQUIREMENTS

A. PROVIDE UL CLASS 1 DUCTWORK, FITTINGS, HANGERS, SUPPORTS, AND APPURTENANCES IN ACCORDANCE WITH NFPA 90A AND SMACNA (DCS) GUIDELINES UNLESS STATED OTHERWISE.

B. PROVIDE METAL DUCT UNLESS OTHERWISE INDICATED. FIBROUS GLASS DUCT CAN BE SUBSTITUTED AT THE CONTRACTOR'S OPTION.

C. ACOUSTICAL TREATMENT: PROVIDE SOUND-ABSORBING LINERS AND SECTIONAL SILENCERS FOR METAL-BASED DUCTS IN COMPLIANCE WITH SECTION 233319.

D. DUCT SHAPE AND MATERIAL IN ACCORDANCE WITH ALLOWED STATIC PRESSURE RANGE:

1. ROUND: PLUS OR MINUS 2 IN-WC (500 PA) OF GALVANIZED STEEL.
2. RECTANGULAR: PLUS OR MINUS 2 IN-WC (500 PA) OF GALVANIZED STEEL.

E. DUCT SEALING AND LEAKAGE IN ACCORDANCE WITH STATIC PRESSURE CLASS:

1. DUCT PRESSURE CLASS AND MATERIAL FOR COMMON MECHANICAL VENTILATION APPLICATIONS:
   a. SUPPLY AIR: 1 IN-WC (250 PA) PRESSURE CLASS, GALVANIZED STEEL.
   b. RETURN AND RELIEF AIR: 1/2 IN-WC (125 PA) PRESSURE CLASS, GALVANIZED STEEL.
   c. GENERAL EXHAUST AIR: 1/2 IN-WC (125 PA) PRESSURE CLASS, GALVANIZED STEEL.

F. DUCT FABRICATION REQUIREMENTS:

1. DUCT AND FITTING FABRICATION AND SUPPORT: SMACNA (DCS) INCLUDING SPECIFICS FOR CONTINUOUSLY WELDED ROUND AND OVAL DUCT FITTINGS.
2. USE REINFORCED AND SEALED SHEET-METAL MATERIALS AT RECOMMENDED GAUGES FOR INDICATED OPERATING PRESSURES OR PRESSURE CLASS.
3. CONSTRUCT TEES, BENDS, AND ELBOWS WITH RADIUS OF NOT LESS THAN 1-1/2 TIMES WIDTH OF DUCT ON CENTERLINE. WHERE NOT POSSIBLE AND WHERE RECTANGULAR ELBOWS MUST BE USED, PROVIDE AIRFOIL TURNING VANES OF PERFORATED METAL WITH GLASS FIBER INSULATION.
4. PROVIDE TURNING VANES OF PERFORATED METAL WITH GLASS FIBER INSULATION WHEN ACOUSTICAL LINING IS INDICATED.
5. INCREASE DUCT SIZES GRADUALLY, NOT EXCEEDING 15 DEGREES DIVERGENCE WHEREVER POSSIBLE; MAXIMUM 30 DEGREES DIVERGENCE UPSTREAM OF EQUIPMENT AND 45 DEGREES CONVERGENCE DOWNSTREAM.
6. PROVIDE TURNING VANES OF PERFORATED METAL WITH GLASS FIBER INSULATION WHEN AN ACOUSTICAL LINING IS REQUIRED.
7. WHERE DUCTS ARE CONNECTED TO EXTERIOR WALL LOUVERS AND DUCT OUTLET IS SMALLER THAN LOUVER FRAME, PROVIDE BLANK-OUT PANELS SEALING LOUVER AREA AROUND DUCT. USE SAME MATERIAL AS DUCT, PAINTED BLACK ON EXTERIOR SIDE; SEAL TO LOUVER FRAME AND DUCT.

2.02 METAL DUCTS

A. MATERIAL REQUIREMENTS:

1. GALVANIZED STEEL: HOT-DIPPED GALVANIZED STEEL SHEET, ASTM A653/A653M FS TYPE B, WITH G60/Z180 COATING.

B. ROUND METAL DUCTS:

1. ROUND CONNECTION SYSTEM: INTERLOCKING DUCT CONNECTION SYSTEM IN ACCORDANCE WITH SMACNA (DCS).

C. ROUND SPIRAL DUCT:

1. ROUND SPIRAL LOCK SEAM DUCT WITH GALVANIZED STEEL OUTER WALL.

2.03 FLEXIBLE DUCTS

A. FLEXIBLE DUCTS: UL 181, CLASS 1, POLYETHYLENE FILM, MECHANICALLY FASTENED AND ROLLED USING GALVANIZED STEEL TO FORM SPIRAL HELIX.

1. INSULATION: R6 INSULATION WITH POLYETHYLENE VAPOR BARRIER FILM.
2. PRESSURE RATING: 10 IN-WC (2.50 KPA) POSITIVE AND 5 IN-WC (1.25 KPA) NEGATIVE.
3. MAXIMUM VELOCITY: 5500 FPM (27.9 M/SEC).
4. TEMPERATURE RANGE: MINUS 20 DEGREES F TO 250 DEGREES F (MINUS 28 DEGREES C TO 121 DEGREES C).

3.01 INSTALLATION

A. INSTALL, SUPPORT, AND SEAL DUCTS IN ACCORDANCE WITH SMACNA (DCS).

B. COMPLY WITH SAFETY STANDARDS NFPA 90A AND NFPA 90B.

C. DURING CONSTRUCTION, PROVIDE TEMPORARY CLOSURES OF METAL OR TAPED POLYETHYLENE ON OPEN DUCTWORK TO PREVENT CONSTRUCTION DUST FROM ENTERING THE DUCTWORK SYSTEM.

D. INCREASE DUCT SIZES GRADUALLY, NOT EXCEEDING 15 DEGREES DIVERGENCE WHEREVER POSSIBLE; MAXIMUM 30 DEGREES DIVERGENCE UPSTREAM OF EQUIPMENT AND 45 DEGREES CONVERGENCE DOWNSTREAM.

E. DUCT SIZES INDICATED ARE PRECISE INSIDE DIMENSIONS. FOR LINED DUCTS, MAINTAIN SIZES INSIDE LINING.

F. PROVIDE OPENINGS IN DUCTWORK AS INDICATED TO ACCOMMODATE THERMOMETERS AND CONTROLLERS. PROVIDE PILOT TUBE OPENINGS AS INDICATED FOR TESTING OF SYSTEMS, COMPLETE WITH METAL CAN WITH SPRING DEVICE OR SCREW TO INSURE AGAINST AIR LEAKAGE. FOR OPENINGS, INSULATE DUCTWORK AND INSTALL INSULATION MATERIAL INSIDE A METAL RING.

G. LOCATE DUCTS WITH SUFFICIENT SPACE AROUND EQUIPMENT TO ALLOW NORMAL OPERATING AND MAINTENANCE ACTIVITIES.

SECTION 233700
AIR OUTLETS AND INLETS

1.03 SUBMITTALS

A. PRODUCT DATA: PROVIDE DATA FOR EQUIPMENT REQUIRED FOR THIS PROJECT. REVIEW OUTLETS AND INLETS AS TO SIZE, FINISH, AND TYPE OF MOUNTING PRIOR TO SUBMISSION. SUBMIT SCHEDULE OF OUTLETS AND INLETS SHOWING TYPE, SIZE, LOCATION, APPLICATION, AND NOISE LEVEL.

3.01 INSTALLATION

A. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

B. CHECK LOCATION OF OUTLETS AND INLETS AND MAKE NECESSARY ADJUSTMENTS IN POSITION TO COMPLY WITH ARCHITECTURAL FEATURES, SYMMETRY, AND LIGHTING ARRANGEMENT.

C. PROVIDE BALANCING DAMPERS ON DUCT TAKE-OFF TO DIFFUSERS AND GRILLES AND REGISTERS, DESPITE WHETHER DAMPERS ARE SPECIFIED AS PART OF DIFFUSER, OR GRILLE AND REGISTER ASSEMBLY.

3.02 CLOSEOUT ACTIVITIES

A. DEMONSTRATE OPERATIONAL SYSTEM TO OWNER'S REPRESENTATIVE.

B. INSTRUCT OWNER'S REPRESENTATIVE TO MAINTAIN SYSTEM AND USE OCCUPANT CONTROLS OR INTERFACES, AS REQUIRED.

SECTION 238126.13
SPLIT-SYSTEM AIR CONDITIONERS

1.04 SUBMITTALS

A. PRODUCT DATA: PROVIDE RATED CAPACITIES, WEIGHTS, ACCESSORIES, ELECTRICAL NAMEPLATE DATA, AND WIRING DIAGRAMS.

B. DESIGN DATA: INDICATE REFRIGERANT PIPE SIZING.

C. OPERATION AND MAINTENANCE DATA: INCLUDE MANUFACTURER'S DESCRIPTIVE LITERATURE, OPERATING INSTRUCTIONS, INSTALLATION INSTRUCTIONS, MAINTENANCE AND REPAIR DATA, AND PARTS LISTING.

D. WARRANTY: SUBMIT MANUFACTURERS WARRANTY AND ENSURE FORMS HAVE BEEN FILLED OUT IN OWNER'S NAME AND REGISTERED WITH MANUFACTURER.

2.01 MANUFACTURERS

A. CARRIER CORPORATION.

B. YORK INTERNATIONAL CORPORATION / JOHNSON CONTROLS.

C. TRANE

2.02 SYSTEM DESIGN

A. SPLIT-SYSTEM HEATING AND COOLING UNITS UL LISTED.

1. COOLING: DX COIL IN INDOOR UNIT. EXISTING CONDENSING UNIT ON ROOF.
2. PROVIDE REFRIGERANT LINES INTERNAL TO UNITS AND BETWEEN INDOOR AND OUTDOOR UNITS, DRIED, PRESSURIZED AND SEALED, WITH INSULATED SUCTION LINE.

B. PERFORMANCE REQUIREMENTS: SEE DRAWINGS FOR ADDITIONAL REQUIREMENTS.

3.01 INSTALLATION

A. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION.

B. INSTALL IN ACCORDANCE WITH NFPA 90A AND NFPA 90B.

INSTALL REFRIGERATION SYSTEMS IN ACCORDANCE WITH ASHRAE STD 15.

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TRI-TECH PROJECT #25194

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revised

STATE OF OHIO
BENJAMIN HAROLD FLORKEY
E-79700
2 FEB 2026
REGISTERED
PROFESSIONAL ENGINEER

OREGON GROUP ARCHITECTS
ARCHITECTURE INTERIORS CODE CONSULTANTS
THE PARSONAGE HOUSE
300 S. ATTEBURY BLVD DAYTON, OHIO 45402
937.228.1551 F 937.228.9569

office renovation for:
valley view board of education
6027 farmersville pike
germantown, ohio 45327

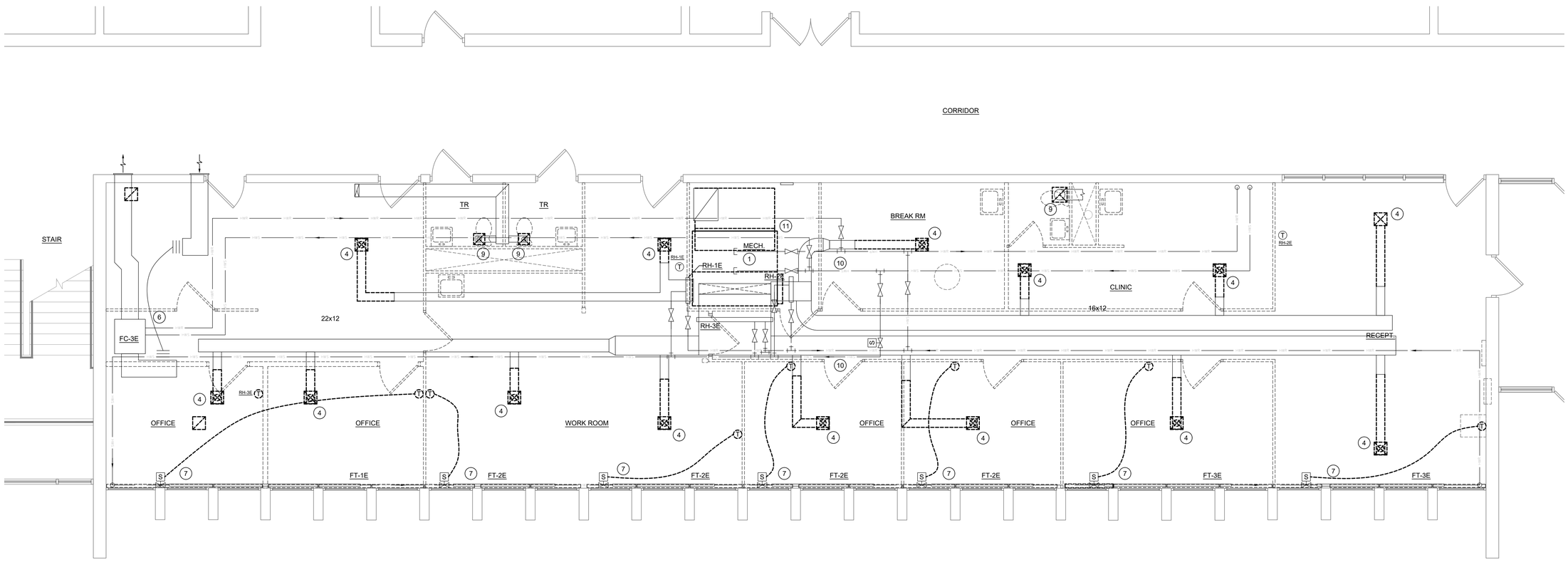
mechanical specifications

project number
251431
date
1/23/2026
drawn by
JEY
checked by
BHF

sheet
M0.2

DEMOLITION NOTES:

1. DEMO EXISTING AIR HANDLING UNIT. REMOVE ALL PNEUMATIC CONTROLS ASSOCIATED. REMOVE PORTION OF SUPPLY AND OUTSIDE AIR DUCT AS NECESSARY FOR INSTALLATION OF NEW AIR HANDLING UNIT.
2. EXISTING HOT WATER REHEAT COIL TO BE RE-USED. RELOCATE AS NECESSARY FOR NEW DUCT LAYOUT. REMOVE CONTROL VALVE AND ASSOCIATED PNEUMATIC CONTROLS TO ACCOMMODATE NEW DDC CONTROLS. REMOVE THE EXISTING ELECTRIC HEATER COILS (NOT SHOWN) THAT WERE PREVIOUSLY ABANDONED IN PLACE ALONG WITH THEIR SUNDRIES. REPAIR DUCTWORK ACCORDINGLY.
3. EXISTING CONDENSING UNIT LOCATED ON ROOF (NOT SHOWN) TO REMAIN. STORE REFRIGERANT AND TEMPORARILY SEAL REFRIGERANT PIPES DURING CONSTRUCTION AS NECESSARY SO THAT CONDENSING UNIT MAY BE REUSED. CLEAN COILS AND VERIFY FUNCTION OF UNIT PRIOR TO ANY DEMO WORK OF THE AIR HANDLING UNIT. REPORT ANY DEFICIENCIES OF THE CONDENSING UNIT PRIOR TO PROCEEDING.
4. DEMO EXISTING AIR DEVICE. REWORK BRANCH DUCT AS NECESSARY TO ACCOMMODATE NEW LAYOUT.
5. MAIN SUPPLY DUCT TO REMAIN UNLESS NOTED OTHERWISE.
6. FAN COIL UNIT SERVING CORRIDOR LOCATED IN CEILING TO REMAIN. SUPPLY AND RETURN DUCTWORK ASSOCIATED WITH THE UNIT TO REMAIN.
7. EXISTING FIN-TUBE HEATER TO REMAIN. DEMO CONTROL VALVE AND ASSOCIATED THERMOSTAT TO REPLACE WITH NEW DDC CONTROLS. CLEAN FIN TUBE AFTER MAJOR DEMOLITION, AND AGAIN AFTER DRYWALL FINISHING.
8. DEMO EXISTING THERMOSTAT.
9. DEMO EXHAUST GRILL. MAIN EXHAUST DUCT AND FAN SHALL REMAIN. REWORK LOCAL EXHAUST DUCT AS NECESSARY TO ACCOMMODATE NEW LAYOUT. EXHAUST FAN LOCATED ON ROOF, NOT SHOWN.
10. EXISTING HYDRONIC HEATING PIPE TO REMAIN UNLESS NOTED OTHERWISE.
11. REMOVE THE DAMAGED PIPE INSULATION WITHIN THE MECHANICAL ROOM. PIPE INSULATION BEYOND THE MECHANICAL ROOM TO REMAIN.



DEMOLITION FLOOR PLAN

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

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office renovation for:
valley view board of education
6027 farmersville pike
germantown, ohio 45327

mechanical demolition plan

project number
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sheet
M1.1

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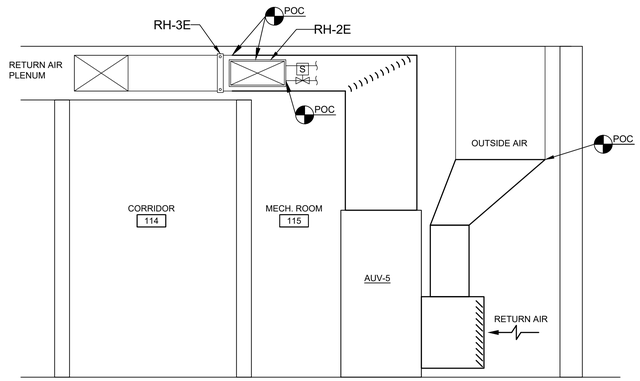
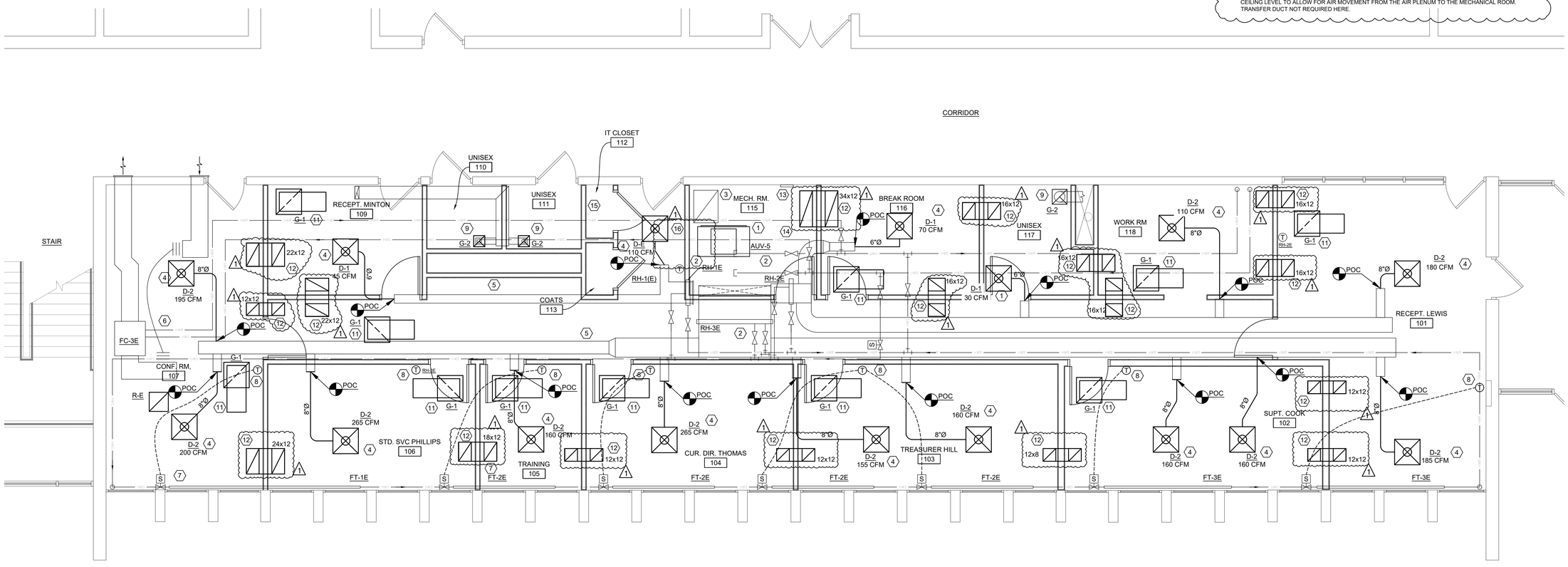


MECH. ROOM SECTION

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

INSTALLATION NOTES:

1. PROVIDE NEW AIR HANDLING UNIT. REWORK PORTION OF SUPPLY AND OUTSIDE AIR DUCT AS NECESSARY. CONNECT DX COIL TO EXISTING REFRIGERANT PIPE. CONNECT TO DDC CONTROL SYSTEM. EXTEND RETURN DUCT UP TO CEILING PLENUM. NEW DUCTWORK NOT SHOWN IN PLAN VIEW FOR CLARITY. REFER TO ELEVATION VIEW ON THIS SHEET.
2. EXISTING HOT WATER REHEAT COIL TO REMAIN. RELOCATE AS NECESSARY. PROVIDE NEW CONTROL VALVE AND CONNECT TO DDC CONTROL SYSTEM.
3. EXISTING CONDENSING UNIT LOCATED ON ROOF (NOT SHOWN). EXTEND REFRIGERANT LINESETS TO THE NEW DX COIL IN THE NEW AIR HANDLING UNIT. RECHARGE SYSTEM WITH NEW OR STORED REFRIGERANT.
4. PROVIDE NEW AIR DEVICE. EXTEND DUCTWORK TO NEW LOCATION. BALANCE TO NEW AIRFLOW. REFER TO AIR DEVICE SCHEDULE ON SHEET M5.1.
5. MAIN SUPPLY DUCT TO REMAIN UNLESS NOTED OTHERWISE.
6. FAN COIL UNIT SERVING CORRIDOR LOCATED IN CEILING TO REMAIN. SUPPLY AND RETURN DUCTWORK ASSOCIATED WITH THE UNIT TO REMAIN.
7. EXISTING FIN-TUBE HEATER TO REMAIN. REPLACE CONTROL VALVE WITH NEW. PROVIDE NEW THERMOSTAT AND CONTROL WIRING.
8. PROVIDE NEW THERMOSTAT. TIE INTO DDC CONTROL SYSTEM.
9. PROVIDE NEW EXHAUST GRILL IN NEW CEILING. EXTEND DUCTWORK TO NEW DEVICE AS NECESSARY.
10. EXISTING HYDRONIC HEATING PIPE TO REMAIN UNLESS NOTED OTHERWISE. PROVIDE NEW INSULATION ON PIPE WITHIN THE AREA OF THIS PROJECT.
11. PROVIDE RETURN AIR DEVICE WITH SOUND BOOT TO RETURN AIR INTO CEILING PLENUM. REFER TO DETAIL ON SHEET M5.2.
12. AIR RETURNS TO THE AIR HANDLER THROUGH CEILING PLENUM. WALLS ARE GENERALLY EXTENDED TO DECK TO REDUCE SOUND TRANSFER. PROVIDE BOOTED AIR TRANSFER PATH ABOVE CEILING. REFER TO DETAIL ON SHEET M5.2.
13. ALL NEW CONTROLS ARE TO TIE INTO THE BUILDING'S EXISTING DDC SYSTEM. THE DETAILS AND COMPONENTS REQUIRED SHALL SHALL BE SUBMITTED AS A SHOP DRAWING FOR REVIEW PRIOR TO ORDERING EQUIPMENT. FOR THE PURPOSE OF BIDDING, ASSUME THAT A REMOTE PANEL WILL BE LOCATED IN THE MECHANICAL ROOM I115 TO ACCEPT ALL INPUT / OUTPUT POINTS IN THIS AREA WITH A SINGLE DATA CABLE RUNNING BACK TO THE BUILDING'S MAIN DDC CONTROL PANEL.
14. PROVIDE PIPE INSULATION TO REPLACE THE DAMAGED INSULATION WITHIN THE MECHANICAL ROOM. PIPE INSULATION BEYOND THE MECHANICAL ROOM TO REMAIN.
15. CEILING IN IT CLOSET TO BE LEFT OPEN TO RETURN AIR PLENUM.
16. THE SOUTH AND EAST WALL OF THE MECHANICAL ROOM WILL HAVE OPEN STUD BAYS ABOVE THE CEILING LEVEL TO ALLOW FOR AIR MOVEMENT FROM THE AIR PLENUM TO THE MECHANICAL ROOM. TRANSFER DUCT NOT REQUIRED HERE.



NEW WORK FLOOR PLAN

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

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1 CODE COMMENTS REVISIONS 2/2/2026

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SPLIT SYSTEM HVAC UNIT SCHEDULE

AIR HANDLING UNIT

MARK	MANUFACTURER	MODEL # (FURNACE)	MODEL # (COIL)	AIRFLOW			MINIMUM ACCEPTABLE CAPACITIES				UNIT HEATING PERFORMANCE												ELECTRICAL				AIR FILTER			UNIT WEIGHT (LBS)	NOTES
							COOLING			HEATING	TYPE												UNIT								
				SUPPLY AIR (CFM)	EXTERNAL S.P. (INCHES W.G.)	OUTSIDE AIR (CFM)	TOTAL (MBH)	SENSIBLE (MBH)	ENTERING AIR TEMP. DB(°F)/WB(°F)	OUTPUT (MBH)	ELECTRICAL COIL	HEAT PUMP	H.P. PRIMARY	HOT WATER	NATURAL GAS	STEAM	INPUT/ OUTPUT (MBH) [KW]	# OF STAGES	TURN DOWN RATIO	WATER FLOW(GPM)	WATER TEMP IN (°F)	WATER OUT (°F)	AFUE	MOTOR HP	VOLTAGE	PHASE	MCA	MOCP	QTY.	MERV #	SIZE L x W x T		
AUV-5	CARRIER	40RFAA08A2A6	N/A	2,455	0.75	260	92	54		N/A	-----COOLING ONLY-----													460	3	4	15				400	1/3/2026

CONDENSING UNIT

MARK	MANUFACTURER	MODEL	RATINGS		ELECTRICAL								UNIT WEIGHT (LBS)	NOTES
			AMBIENT TEMP. (°F)	SEER	COMPRESSOR									
					QTY.	VOLTAGE	PHASE	RLA	VOLTAGE	PHASE	MCA	MOCP		
CU-5E	CARRIER	38AUZA08												4

NOTES:

1. PROVIDE THREE SETS OF AIR FILTERS. REPLACE ONCE BEFORE AIR BALANCE TEST, AND ONCE AT COMPLETION OF MAJOR RENOVATION.
2. PROVIDE INTERFACE TO BUILDING'S DDC SYSTEM.
3. ROOM OPERABLE WINDOWS AND DOORS PROVIDE ENOUGH NATURAL VENTILATION TO SATISFY CODE. OUTSIDE AIR PROVIDED FOR CONVENIENCE.
4. EXISTING CONDENSING UNIT TO REMAIN.

VENTILATION SCHEDULE - AUV-5

Space	Classification	Area	cfm/ person	cfm/ft²	#P / 1000 ft²	Exhaust	People	Vent People	Vent Floor	Vent Total (Vbz)	Ez	Voz = Vbz/Ez	Vpz	Zp = Voz/Vpz
101 Recept. Lewis	Main entry lobbies	350	5	0.06	10		4	20	21	41	0.8	51	365	0.14
102 Sup. Cook	Office spaces	200	5	0.06	5		1	5	12	17	0.8	21	320	0.07
103 Treasurer Hill	Office spaces	200	5	0.06	5		1	5	12	17	0.8	21	315	0.07
104 Cur. Dir. Thomas	Office spaces	160	5	0.06	5		1	5	10	15	0.8	19	265	0.07
105 Training	Conference rooms	80	5	0.06	50		4	20	5	25	0.8	31	160	0.19
106 St. Svc. Phillips	Office spaces	160	5	0.06	5		1	5	10	15	0.8	19	265	0.07
107 Conference Room	Conference rooms	295	5	0.06	50		15	75	18	93	0.8	116	395	0.29
109 Recept. Minton	Office spaces	105	5	0.06	5		1	5	6	11	0.8	14	50	0.28
110 Women	Toilet rooms - public	29	0	0	0	55	0	0	0	0	0.8	0	0	0.00
111 Men	Toilet rooms - public	29	0	0	0	55	0	0	0	0	0.8	0	0	0.00
114 Corridor	Corridors	460	0	0.06	0		0	0	28	28	0.8	35	110	0.32
116 Break Room	Office spaces	110	5	0.06	5		1	5	7	12	0.8	15	70	0.21
117 Toilet	Toilet rooms - public	59	0	0	0	55	0	0	0	0	0.8	0	30	0.00
118 Work Room	Office spaces	120	5	0.06	5		1	5	7	12	0.8	15	110	0.14
		2,357			Σ Pz =		30		Vou =	211		357	Max:	0.32
					System Population Ps =		15		D =	0.50			2,455	

@ Max Zp	0.32
Ev =	0.832

Vot = Vou / Ev
254 cfm

AIR DEVICE SCHEDULE

MARK	MANUFACTURER	MODEL #	SIZE		TYPE							AIR FLOW	DUTY						FINISH						MISC								MOUNTING				NOTES
			NECK W x H [DIA] (INCH)	FACE W x H [DIA] (INCH)	DAMPER - FIRE	DAMPER - GRAVITY	DAMPER - MANUAL	DAMPER - MOTORIZED	DIFFUSER	GRILLE	REGISTER	CFM	SEE PLAN	EXHAUST	INTAKE	RELIEF	RETURN	SUPPLY	TRANSFER	WHITE	BLACK	PRIMER	BARE METAL	CLEAR LACQUER	COLOR BY ARCHITECT	AIR FILTER	EGG CRATE	INSULATED - EXTERIOR	INSULATED - INTERIOR	LAY-IN GRID	LINEAR	SURFACE MOUNT	VOLUME DAMPER	HEIGHT ABOVE FLOOR	CEILING	DUCT	SEE PLAN	
D-1	PRICE	SCD	[6]	24x24					●									●		●										●					●			1
D-2	PRICE	SCD	[8]	24x24					●									●		●										●					●			1
G-1	PRICE	530-TB		24x24						●							●								●					●					●			1
G-2	PRICE	530-TB		12x12						●				●											●					●					●			1

NOTES:

1.	VERIFY FINISH WITH ARCHITECT. MODEL NUMBER MAY VARY WITH DIFFERENT FINISH.	6.	NEW DIFFUSER TO MATCH STYLE OF EXISTING. MODEL NUMBER MAY VARY.
2.	VERIFY MOUNTING HEIGHT WITH ARCHITECT PRIOR TO INSTALLATION.	7.	FIRE DAMPER SIZE AND STYLE VARIES. REFER TO DRAWINGS FOR CORRESPONDING DUCT SIZE, GEOMETRY, AND ORIENTATION. FIRE RATING TO BE 1.5 HOURS.
3.	GRILL DOES NOT NEED TO FIT A STANDARD 2' X 2' CEILING GRID OPENING. GRILL MAY BE CUT SMALLER AND PLACED IN A PARTIAL CEILING GRID SPACE. SIZE OF GRILL SHALL NOT BE LESS THAN NOMINAL 12" X 12".		
4.	PROVIDE MOTORIZED ACTUATOR TO OPERATE DAMPER. REFER TO SEQUENCE OF OPERATION.		
5.	EXISTING AIR DEVICE. CLEAN AND BALANCE TO NEW AIR FLOW. RELOCATE AND EXTEND DUCTWORK AS NECESSARY.		

SEQUENCES OF OPERATION: EXISTING BUILDING 2-PIPE:

THE EXISTING BUILDING IS SERVED BY A 2-PIPE SYSTEM. BUILDING OPERATORS MANUALLY SWITCH THE BUILDING BETWEEN HEATING MODE AND COOLING MODE. DURING THESE TIMES THE WORKING FLUID IN THE PIPE WILL EITHER BE HOT WATER OR CHILLED WATER DEPENDING ON THE MODE THE BUILDING IS PLACED IN. THE OPERATION OF THE EQUIPMENT WITHIN THE SPACE OF THIS PROJECT WILL BE DEPENDENT ON THE MODE THE BUILDING IS IN. THESE DIFFERENT MODES ARE CLARIFIED WITHIN THE RESPECTIVE EQUIPMENT BELOW.

FIN TUBE HEAT:

FIN TUBE HEAT SHALL BE CONTROLLED THROUGH A REMOTE THERMOSTAT. THE THERMOSTAT SHALL SHALL ONLY BE ACTIVE WHEN THE BUILDING HAS BEEN CONVERTED TO HEATING MODE. CONTROL UNIT HEATER AS FOLLOWS:

WHEN THE BUILDING IS IN COOLING MODE:
THE THERMOSTAT SHALL NOT BE ACTIVE. CONTROL VALVE SHALL REMAIN CLOSED. HEATING IS NOT AVAILABLE UNLESS THE BUILDING IS IN HEATING MODE.

WHEN THE BUILDING IS IN HEATING MODE:
UPON DETECTION OF THE SPACE TEMPERATURE FALLING BELOW THE TEMPERATURE SET POINT, THE CONTROL VALVE SHALL OPEN TO ALLOW FOR THE FLOW OF HOT WATER THROUGH THE FIN TUBE. UPON SPACE TEMPERATURE ABOVE THE TEMPERATURE SET POINT, THE VALVE SHALL CLOSE TO PREVENT THE FLOW OF WATER THROUGH THE FIN TUBE.

THERMOSTAT SETTINGS:
COORDINATE AN OCCUPANCY SCHEDULE AND SET POINTS WITH THE OWNER. THE THERMOSTAT SHALL BE PROGRAMMED WITH THE FOLLOWING ADJUSTABLE SET POINTS (UNLESS REQUESTED OTHERWISE BY THE OWNER).

OCCUPIED HOURS: 6:00 - 19:00
HEATING (OCCUPIED): 68°F
HEATING (UNOCCUPIED): 64°F

SEQUENCES OF OPERATION (CONTINUED): AUV-5 (AND REHEAT COILS RH-1E, -2E, -3E):

THE AIR HANDLING UNIT AUV-5 PROVIDES VENTILATION AND SPACE CONDITIONING FOR THE OFFICE AREA. DURING OCCUPIED HOURS THE SYSTEM SHALL RUN CONTINUOUSLY TO PROVIDE VENTILATION. DURING UNOCCUPIED HOURS THE FAN SHALL ONLY RUN INTERMITTENTLY AS NECESSARY TO EITHER HEAT OR COOL THE SPACES. THE CONDENSING UNIT ALONG WITH THE RETURN AND OUTSIDE AIR DAMPERS SHALL BE ACTIVATED AS NECESSARY TO MAINTAIN THE SPACE TEMPERATURES AS DESCRIBED BELOW.

THREE THERMOSTATS SHALL INDIVIDUALLY CONTROL THE RESPECTIVE REHEAT COILS, AND COLLECTIVELY CONTROL THE AIR HANDLING UNIT AS DESCRIBED BELOW. THE THREE THERMOSTATS SHALL MONITOR THEIR RESPECTIVE ROOM TEMPERATURE.

WHEN THE BUILDING IS IN COOLING MODE:
REHEAT COILS SHALL BE DE-ACTIVATED. THE CONTROL VALVES FOR THE COILS SHALL REMAIN CLOSED. THE ADDITIONAL CONTROL VALVE UPSTREAM OF THE GROUP OF COILS SHALL REMAIN CLOSED AS WELL

COOLING - UPON A RISE IN SPACE TEMPERATURE ABOVE SET POINT FOR ANY ONE OR MORE THERMOSTAT, THE CONDENSING UNIT SHALL BE ACTIVATED TO PROVIDE COOLING. IF ALL THREE THERMOSTATS FALL BACK WITHIN THEIR ACCEPTABLE RANGE, THE CONDENSING UNIT SHALL BE DEACTIVATED.

HEATING - IF ANY OF THE SPACES FALL BELOW THE HEATING SETPOINT WHILE ONE OR TWO OF THE OTHERS STILL REQUIRE COOLING THE CONDENSING UNIT SHALL BE DEACTIVATED IF NOT ALREADY THE CASE. THE FAN SHALL NOT STOP RUNNING. HEAT IS NOT SPECIFICALLY AVAILABLE FROM THE UNIT IF THE BUILDING IS NOT IN HEATING MODE.

MIXED - IF ANY SPACE REQUIRES THE OPPOSITE MODE OF ANY OTHER SPACE, THE CONTROL SYSTEM SHALL GIVE PRIORITY TO THE SPACE THAT IS FURTHEST FROM SETPOINT.

WHEN THE BUILDING IS IN HEATING MODE:
REHEAT COILS SHALL BE AVAILABLE WHEN THE BUILDING IS IN HEATING MODE. THE CONTROL VALVE UPSTREAM OF THE GROUP OF COILS SHALL OPEN UP. THE CONTROL VALVES FOR THE INDIVIDUAL COILS SHALL OPERATE WITH THEIR RESPECTIVE THERMOSTAT AS DESCRIBED BELOW.

COOLING - UPON A RISE IN SPACE TEMPERATURE ABOVE SET POINT FOR ANY ONE OR MORE THERMOSTAT, THE CONDENSING UNIT SHALL BE ACTIVATED TO PROVIDE COOLING. IF ALL THREE THERMOSTATS FALL BACK WITHIN THEIR ACCEPTABLE RANGE, THE CONDENSING UNIT SHALL BE DEACTIVATED.

HEATING - IF ANY SPACE FALLS BELOW THE HEATING SETPOINT, THE RESPECTIVE HOT WATER COIL SHALL BE ACTIVATED BY OPENING THE RESPECTIVE CONTROL VALVE.

MIXED - IF ANY SPACE REQUIRES THE OPPOSITE MODE OF ANY OTHER SPACE THE SYSTEM SHALL EVALUATE THE SPACE TEMPERATURES. THE FURTHEST FROM SETPOINT SHALL NOT AUTOMATICALLY TAKE PRIORITY WHEN THE BUILDING IS IN HEATING MODE. ONLY IF A SPACE IS FALLING MORE THAN 4°F (ADJUSTABLE) BELOW HEATING SETPOINT SHOULD THE CONDENSING UNIT BE DEACTIVATED.

ECONOMIZER MODE (LIMITED):
WHERE THE CONDENSING UNIT IS CALLED FOR ACTIVATION AS DESCRIBED IN THE SECITONS ABOVE, THE OUTDOOR AIR ENTHALPY SHALL BE COMPARED TO THE RETURN AIR ENTHALPY. IF WHILE COOLING MODE IS CALLED FOR AND THE OUTSIDE AIR IS OF LOWER ENTHALPY, THE OUTSIDE AIRFLOW MAY INCREASE. NOTE THAT THE EXISTING INFRASTRUCTURE DOES NOT PERMIT AIR TO BE READILY RELIEVED FROM THE SPACE. ECONOMIZER AIR WILL BE LIMITED. THE SUGGESTED VALUE OFFERED BELOW SHALL BE EVALUATED DURING THE TESTING AND BALANCING AND SHALL BE ADJUSTED ACCORDINGLY TO AVOID ANY OVER-PRESSURIZATION WITHIN THE SPACE TO MAINTAIN PROPER DOOR OPERATION INTO / OUT OF THE AREA OF WORK.

MINIMUM VENTILATION DURING OCCUPIED HOURS: REFER TO SCHEDULE; THIS SHEET MAXIMUM VENTILATION IN ECONOMIZER: 450 CFM (TAB CONTRACTOR TO ADJUST).

UNOCCUPIED / BUILDING WARM UP:
WHILE THE BUILDING IS UNOCCUPIED THE OUTSIDE AIR DAMPER SHALL BE COMMANDED CLOSED. THE OCCUPIED TEMPERATURE SET POINT SHALL TAKE AFFECT 1.5 HOURS (ADJUSTABLE) PRIOR TO THE BUILDING OCCUPANCY TIME. THIS IS TO ALLOW THE BUILDING TO "WARM UP" FROM THE UNOCCUPIED SETPOINT TO THE OCCUPIED SET POINT PRIOR TO PREPARE THE BUILDING FOR THE OCCUPANTS.

THERMOSTAT SETTINGS:
COORDINATE AN OCCUPANCY SCHEDULE AND SET POINTS WITH THE OWNER. THE THERMOSTAT SHALL BE PROGRAMMED WITH THE FOLLOWING ADJUSTABLE SET POINTS (UNLESS REQUESTED OTHERWISE BY THE OWNER).

OCCUPIED HOURS: 6:00 - 19:00
HEATING (OCCUPIED): 70°F
HEATING (UNOCCUPIED): 66°F
COOLING (OCCUPIED): 74°F
COOLING (UNOCCUPIED): 78°F

CONTROL VALVE SCHEDULE

SERVES	FLOW (GPM)	BODY SIZE	ELECTRICAL				NOTES
			VOLTAGE				
RH-1E	1	1/2"	24				1
RH-2E	1.5	1/2"	24				1
RH-3E	3.5	3/4"	24				1
(ALL3 ABOVE)		1-1/4"	24				2
FC-3E		3/4"	24				2
FT-1E		1"	24				2
FT-2E		1"	24				2
FT-3E		1"	24				2

NOTES:

1. PROVIDE 3-WAY VALVE
2. PROVIDE 2-WAY VALVE

issued

PERMIT DRAWINGS

revised

CODE COMMENTS
REVISIONS 2/2/2026

STATE OF OHIO
BENJAMIN HAROLD FLORKEY
E-79700
2 FEB 2026
REGISTERED
PROFESSIONAL ENGINEER

OREGON GROUP ARCHITECTS
ARCHITECTURE | INTERIORS | CODE CONSULTANTS
THE PARSONAGE HOUSE
300 S. PATTERSON BLVD, DAYTON, OHIO 45402
937.228.1551 | F 937.228.9569

office renovation for:
valley view board of education
6027 farmersville pike
germantown, ohio 45327

mechanical schedules

project number
251431
date
1/23/2026
drawn by
JEY
checked by
BHF

sheet
M5.1

TRI-TECH
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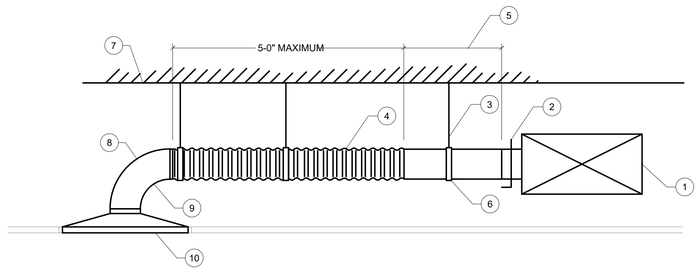


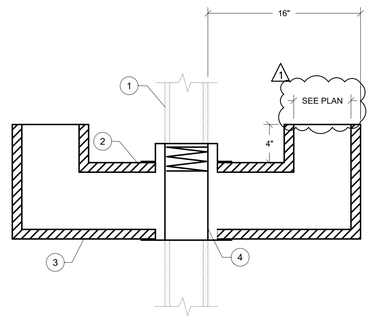
GENERAL NOTES	
A.	PROVIDE HANGERS REQUIRED TO LIMIT FLEXIBLE DUCT SAG TO 2"

#	DETAIL NOTES
1.	MAIN DUCT
2.	SPIN-IN FITTING W/ DAMPER & VOLUME EXTRACTOR
3.	WIRE HANGER, TYP.
4.	FLEXIBLE DUCT, SAME SIZE AS DIFFUSER NECK
5.	INSULATED ROUND SHEET METAL AS REQUIRED, SAME SIZE AS DIFFUSER NECK
6.	1/2" WIDE SHEET METAL STRAP
7.	BOTTOM OF BUILDING STRUCTURE
8.	PROVIDE SHEETMETAL CONNECTION ELBOW, EXTERNALLY INSULATE
9.	RADIUS NO LESS THAN DUCT DIAMETER
10.	CEILING DIFFUSER

AIR DEVICE RUNOUT CONNECTION DETAIL

SCALE: NONE

TT DTL ID: 23 3300-2

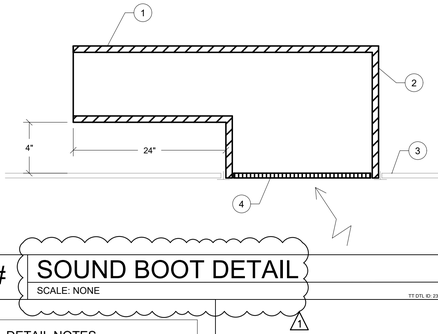


#	DETAIL NOTES
1.	FIRE RATED PARTITION
2.	SEE PLANS FOR DUCT SIZE AND ELEVATION
3.	ACOUSTICALLY LINED DUCTWORK FOR SOUND ABSORPTION
4.	FIRE DAMPER WHERE REQUIRED, SEE PLANS. CARRY DUCT THROUGH NON-RATED WALL AND SEAL OPENING

RETURN AIR SOUND TRAP DETAIL

SCALE: NONE

TT DTL ID: 23 3300-5

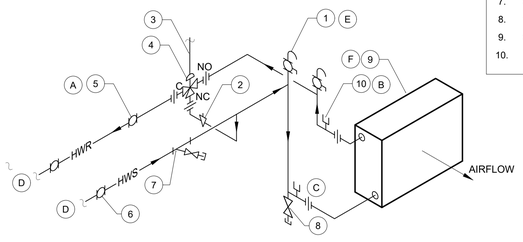


#	DETAIL NOTES
1.	SIZE AS INDICATED ON PLAN
2.	1" THICK FIBER DUCTBOARD OR ACOUSTICALLY LINED SHEETMETAL
3.	CEILING HEIGHT AS INDICATED ON PLANS
4.	AIR RELIEF GRILLE (SEE PLANS FOR SIZE AND TYPE OF GRILLE)

SOUND BOOT DETAIL

SCALE: NONE

TT DTL ID: 23 3300-12



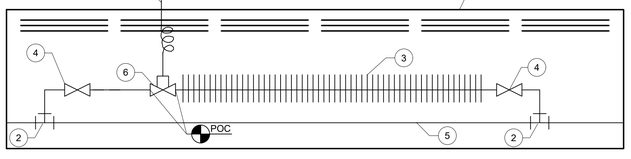
#	DETAIL NOTES
1.	MANUAL AIR VENT, 3/8" BALL VALVE (TYP.
2.	PLUG VALVE, ADJUST TO EQUAL GPM THRU COIL AT DESIGN FLOW
3.	DIRECT ACTING SIGNAL
4.	MIXING VALVE
5.	BALANCING VALVE
6.	SHUT-OFF VALVE (TYP.)
7.	STRAINER WITH BLOW-OFF VALVE
8.	1/2" DRAIN VALVE
9.	COIL
10.	TEST PLUG (TYP.)

GENERAL NOTES	
A.	INSTALL BALANCING VALVE WITH MINIMUM OF 3 STRAIGHT PIPE DIAMETERS UPSTREAM AND 1 STRAIGHT PIPE DIAMETER DOWNSTREAM.
B.	MAINTAIN 6" MINIMUM CLEARANCE ABOVE TEST PLUG TO ALLOW GAUGE TO BE INSERTED. DO NOT COVER WITH INSULATION.
C.	INSTALL SWING JOINTS AT COIL CONNECTIONS.
D.	CONNECT BRANCH LINES FROM COIL INTO TOP OR SIDE OF SUPPLY AND RETURN MAINS. CONNECTING INTO BOTTOM OF MAIN IS NOT ACCEPTABLE.
E.	INSTALL MANUAL AIR VENTS IN SUPPLY AND RETURN COIL BRANCH PIPING AS FOLLOWS: A) IN PIPING HIGH POINT WHEN PIPING IS ABOVE MAIN. B) CLOSE TO COIL WHEN PIPING IS NOT ABOVE MAIN (SIDE CONNECTION).
F.	INSTALL COIL SO AIR PASSES THROUGH FINS IN PROPER DIRECTION NOTED ON COIL.

HOT WATER COIL PIPING DETAIL

SCALE: NONE

TT DTL ID: 23 3300-2



#	DETAIL NOTES
1.	EXISTING HOUSING
2.	EXISTING MONOFLOW TEE
3.	EXISTING FIN TUBE ELEMENT
4.	EXISTING VALVE
5.	EXISTING BYPASS PIPE
6.	NEW CONTROL VALVE
7.	NEW CONTROL WIRING
8.	NEW THERMOSTAT

TYPICAL HOT WATER BASEBOARD CONVECTOR PIPING

SCALE: NONE

TT DTL ID: 23 3300-2

issued

PERMIT DRAWINGS

revised

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M5.2

ELECTRICAL SPECIFICATIONS:

26 05 00 - COMMON WORK RESULTS FOR ELECTRICAL

1. ELECTRICAL CONTRACTOR SHALL SECURE ALL ELECTRICAL PERMITS AS REQUIRED AND MAKE ALL NECESSARY APPLICATIONS AND COORDINATE WORK FOR A COMPLETE ELECTRICAL INSTALLATION. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMIT AND INSPECTION FEES APPLICABLE TO THE WORK IN THE DRAWINGS AND SPECIFICATIONS.

2. PROVIDE WORK IN COMPLIANCE WITH ALL LOCAL, STATE, AND NATIONAL CODES AND STANDARDS INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
   2024 OHIO BUILDING CODE.
   2023 NATIONAL ELECTRICAL CODE (NFPA 70).
   2021 IECC / 2019 ASHRAE 90.1.
   2022 NFPA 72.
   LOCAL ELECTRICAL CODES.
   WHERE THERE IS A CONFLICT, THE MOST STRINGENT SHALL APPLY.

3. "PROVIDE" MEANS "FURNISH AND INSTALL."

4. ELECTRICAL CONTRACTOR SHALL VISIT SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND WORK TO BE DONE. ELECTRICAL CONTRACTOR SHALL CAREFULLY CHECK PLANS OF ALL DISCIPLINES; THESE ELECTRICAL DRAWINGS ARE TO BE USED AS A GUIDE AND ARE SCHEMATIC IN NATURE. ELECTRICAL CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR A COMPLETE AND FUNCTIONING SYSTEM, INCLUDING VERIFICATION OF DIMENSIONS, SEQUENCING, ETC.

5. ALL ITEMS SHALL BE NEW UNLESS OTHERWISE NOTED. PROVIDE PRODUCTS LISTED AND LABELED BY UNDERWRITERS LABORATORIES INC. AS SUITABLE FOR THE PURPOSE INDICATED.

6. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, DETAILS AND DESIGN. EQUIPMENT CALLED OUT BY CERTAIN MANUFACTURERS IS INTENDED TO CREATE A STANDARD. EQUALS WILL BE ACCEPTED UPON APPROVAL.

7. THE CONTRACTOR SHALL PREPARE OR OBTAIN FROM THE MANUFACTURER SHOP DRAWINGS OF ALL ITEMS OF EQUIPMENT TO BE FURNISHED AND SUBMIT ELECTRONIC COPIES TO THE ARCHITECT AND/OR ENGINEER FOR APPROVAL BEFORE PROCEEDING WITH INSTALLATION OR CONSTRUCTION. THESE DRAWINGS SHALL BE COMPLETE IN EVERY RESPECT SHOWING PERTINENT DETAILS OF SIZE, CAPACITIES, ARRANGEMENTS, FITTINGS, PIPING, KINDS AND THICKNESS OF MATERIALS, WEIGHT, LOADING REQUIRED, CLEARANCES FOR SERVICE, MAINTENANCE, ETC. AS A MINIMUM, THE SHOP DRAWINGS EXPECTED ARE AS FOLLOWS:
   7.1. LIGHT FIXTURES.
   7.2. DISTRIBUTION EQUIPMENT.
   7.3. LIGHTING CONTROLS.
   7.4. FIRE ALARM.

8. PROVIDE AND INSTALL ELECTRICAL DISCONNECTS, CIRCUIT BREAKERS, ETC. SPECIFIED OR REQUIRED.

9. COORDINATE LOCATIONS OF LIGHTING FIXTURES WITH MECHANICAL DUCTS, SPRINKLER PIPES AND HEADS BEFORE ROUGH-IN TO PREVENT CONFLICTS. VERIFY EXACT LOCATION OF ALL LIGHTING FIXTURES WITH REFLECTED CEILING PLAN AND/OR ARCHITECT PRIOR TO ROUGH-IN.

10. PROVIDE THE FOLLOWING CLOSEOUT ACTIVITIES
    10.1. TEST ALL WORK AND EQUIPMENT. CORRECT ALL DEFICIENCIES. DEMONSTRATE THAT THE ELECTRICAL SYSTEM IS OPERATING TO THE SATISFACTION OF THE OWNER.
    10.2. PROVIDE AN AS-BUILT SET OF DRAWINGS SHOWING ALL CORRECTIONS TO THE OWNER.
    10.3. PROVIDE EQUIPMENT OPERATING AND MAINTENANCE MANUALS TO THE OWNER. PROVIDE THE NAMES AND ADDRESSES OF WHERE THE EQUIPMENT WAS PURCHASED FROM.

11. REFER TO THE ARCHITECTURAL CONSTRUCTION PHASING SHEET FOR WORK THAT IS REQUIRED TO BE PERFORMED "AFTER HOURS."

12. PROVIDE TEMPORARY LIGHTING/EXIT SIGNS AS REQUIRED MAINTAINING EGRESS FOR AREAS INSIDE AND OUTSIDE THE TEMPORARY PARTITION WALLS.

26 05 05 - SELECTIVE DEMOLITION

1. EXISTING ELECTRICAL OR COMMUNICATIONS EQUIPMENT, DEVICES AND CABLING THAT HAVE BEEN ABANDONED SHALL BE DISCONNECTED AND REMOVED BY THE ELECTRICAL CONTRACTOR. REMOVE ABANDONED CABLING ABOVE LAY-IN CEILINGS. ANY ABANDONED CONDUITS/WIRING SHALL BE REMOVED BACK TO UPSTREAM AND ACTIVE SOURCE.

2. REVIEW DRAWINGS FOR ALL TRADES. REMOVE POWER TO EQUIPMENT REMOVED BY OTHER TRADES. REMOVE AND RECONNECT EQUIPMENT RELOCATED BY OTHER TRADES.

3. EXTEND CONDUIT, WIRING, ETC., AS REQUIRED, TO ACCOMMODATE NEW OR RELOCATED ELECTRICAL WORK.

4. COORDINATE DISPOSAL REQUIREMENTS WITH THE OWNER PRIOR TO DEMOLITION. ITEMS TO BE SALVAGED FOR THE OWNER SHALL BE REMOVED (UNDAMAGED) AND TURNED OVER TO OWNER. DISCONNECT (NOT JUST CUT) ALL WIRING & "WHIPS" FROM EQUIPMENT TERMINAL POINTS AND CAREFULLY TRANSPORT TO AND NEATLY STORE AT AN ON-SITE STORAGE LOCATION AS DIRECTED IN THE FIELD.

5. ELECTRICAL CONTRACTOR SHALL DEMO, PATCH AND REPAIR EXISTING WALLS AS REQUIRED FOR ELECTRICAL BOXES, CONDUIT, WALL PENETRATIONS, ETC.

   5.1. ALL PENETRATIONS IN FIRE BARRIERS SHALL BE SEALED WITH FIRE CAULK IN CONJUNCTION WITH FIRE SAFING INSULATING MATERIALS AS REQUIRED PER THE OHIO BUILDING CODE. SEALANT SHALL MAINTAIN OR EXCEED THE INTEGRITY OF THE FIRE RATING OF THESE CEILINGS, FLOORS OR WALLS.

   5.2. FIRESTOP ASSEMBLIES SHALL BE APPROVED AND TESTED IN ACCORDANCE WITH ASTM E119 AND ASTM E814.

   5.3. PATCH WEATHER-TIGHT ALL NEW PENETRATIONS IN EXTERIOR WALLS, ROOFS, FLOORS, ETC.

   5.4. ALL PATCHING SHALL BE PERFORMED BY TRADES QUALIFIED IN PATCHING AT THE ELECTRICAL CONTRACTOR'S EXPENSE.

6. ALL WORK AND SYSTEM SHUTDOWNS SHALL BE CAREFULLY COORDINATED IN ADVANCE WITH THE OWNER'S REPRESENTATIVE.

26 05 19 - CONDUCTORS:

1. COORDINATE SIZES OF RACEWAYS, BOXES, AND EQUIPMENT ENCLOSURES WITH THE ACTUAL CONDUCTORS TO BE INSTALLED, INCLUDING ADJUSTMENTS FOR CONDUCTOR SIZES INCREASED FOR VOLTAGE DROP, AMBIENT TEMPERATURE, MORE THAN (3) CURRENT-CARRYING CONDUCTORS IN A CONDUIT.

2. WHERE OVER-SIZED CONDUCTORS ARE LARGER THAN THE EQUIPMENT TERMINATIONS CAN ACCOMMODATE, PROVIDE CONNECTORS SUITABLE FOR REDUCING TO APPROPRIATE SIZE, BUT NOT LESS THAN REQUIRED FOR THE RATING OF THE OVERCURRENT PROTECTIVE DEVICE. IT IS ACCEPTABLE TO UTILIZE UL-LISTED REDUCER KITS OR POWER DISTRIBUTION BLOCKS TO CONNECT TO TERMINAL LUGS. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT TERMINAL LUGS ARE RATED OR LISTED TO ACCEPT THE REDUCER KIT UTILIZED.

3. UNLESS DIMENSIONED, CIRCUIT ROUTING INDICATED IS DIAGRAMMATIC. WHEN CIRCUIT DESTINATION IS INDICATED AND ROUTING IS NOT SHOWN, DETERMINE EXACT ROUTING REQUIRED.

4. SECURE AND SUPPORT CONDUCTORS AND CABLES IN ACCORDANCE WITH NFPA 70 USING SUITABLE SUPPORTS AND METHODS APPROVED BY THE AUTHORITY HAVING JURISDICTION. PROVIDE INDEPENDENT SUPPORT FROM BUILDING STRUCTURE. DO NOT PROVIDE SUPPORT FROM RACEWAYS, PIPING, DUCTWORK, OR OTHER SYSTEMS.

5. UNLESS SPECIFICALLY INDICATED TO BE EXCLUDED, PROVIDE FINAL CONNECTIONS TO ALL EQUIPMENT AND DEVICES, INCLUDING THOSE FURNISHED BY OTHERS, AS REQUIRED FOR A COMPLETE OPERATING SYSTEM.

6. PROVIDE COPPER CONDUCTORS.

7. MINIMUM CONDUCTOR SIZE FOR BRANCH CIRCUITS IS #12 AWG.

   7.1. EXCEPTIONS:
      7.1.1. 20 A, 120 V CIRCUITS LONGER THAN 75 FEET (23 M): #10 AWG, FOR VOLTAGE DROP.
      7.1.2. 20 A, 120 V CIRCUITS LONGER THAN 150 FEET (46 M): #8 AWG, FOR VOLTAGE DROP.
      7.1.3. 20 A, 277 V CIRCUITS LONGER THAN 150 FEET (46 M): 10 AWG, FOR VOLTAGE DROP.

8. WHERE CONDUCTOR SIZE IS NOT INDICATED, SIZE TO COMPLY WITH NFPA 70 BUT NOT LESS THAN APPLICABLE MINIMUM SIZE REQUIREMENTS SPECIFIED.

9. COLOR CODE CONDUCTORS AS INDICATED UNLESS OTHERWISE REQUIRED BY THE AUTHORITY HAVING JURISDICTION. MAINTAIN CONSISTENT COLOR CODING THROUGHOUT PROJECT.

   9.1. COLOR CODE:
      9.1.1. 208Y/120 V, 3 PHASE, 4 WIRE SYSTEM:
      9.1.2. PHASE A: BLACK.
      9.1.3. PHASE B: RED.
      9.1.4. PHASE C: BLUE.
      9.1.5. NEUTRAL/GROUNDED: WHITE.
      9.1.6. 480Y/277 V, 3 PHASE, 4 WIRE SYSTEM:
      9.1.7. PHASE A: BROWN.
      9.1.8. PHASE B: ORANGE.
      9.1.9. PHASE C: YELLOW.
      9.1.10. NEUTRAL/GROUNDED: GRAY.
      9.1.11. EQUIPMENT GROUND, ALL SYSTEMS: GREEN.
      9.1.12. FOR MODIFICATIONS OR ADDITIONS TO EXISTING WIRING SYSTEMS, COMPLY WITH EXISTING COLOR CODE WHEN EXISTING CODE COMPLIES WITH NFPA 70 AND IS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

10. PROVIDE A DEDICATED NEUTRAL FOR EACH CIRCUIT.

11. INSULATION:
    11.1. COPPER WIRE: TYPE THHN/THWN OR THHN/THWN-2, EXCEPT AS INDICATED BELOW.
       11.1.1. SIZE 4 AWG AND LARGER: TYPE XHHW-2.

26 05 26 - GROUNDING:

1. CONFORM TO REQUIREMENTS OF NFPA 70.

2. UNLESS SPECIFICALLY INDICATED TO BE EXCLUDED, PROVIDE ALL REQUIRED COMPONENTS, CONDUCTORS, CONNECTORS, CONDUIT, BOXES, FITTINGS, SUPPORTS, ACCESSORIES, ETC. AS NECESSARY FOR A COMPLETE GROUNDING AND BONDING SYSTEM.

3. WHERE CONDUCTOR SIZE IS NOT INDICATED, SIZE TO COMPLY WITH NFPA 70 BUT NOT LESS THAN APPLICABLE MINIMUM SIZE REQUIREMENTS SPECIFIED.

4. PROVIDE BONDING FOR EQUIPMENT GROUNDING CONDUCTORS, EQUIPMENT GROUND BUSSES, METALLIC EQUIPMENT ENCLOSURES, METALLIC RACEWAYS AND BOXES, DEVICE GROUNDING TERMINALS, AND OTHER NORMALLY NON-CURRENT-CARRYING CONDUCTIVE MATERIALS ENCLOSING ELECTRICAL CONDUCTORS/EQUIPMENT OR LIKELY TO BECOME ENERGIZED AS INDICATED AND IN ACCORDANCE WITH NFPA 70.

5. PROVIDE INSULATED EQUIPMENT GROUNDING CONDUCTOR IN EACH FEEDER AND BRANCH CIRCUIT RACEWAY. DO NOT USE RACEWAYS AS SOLE EQUIPMENT GROUNDING CONDUCTOR.

6. WHERE CIRCUIT CONDUCTOR SIZES ARE INCREASED FOR VOLTAGE DROP OR OTHER REASONS, INCREASE SIZE OF EQUIPMENT GROUNDING CONDUCTOR PROPORTIONALLY IN ACCORDANCE WITH NFPA 70.

7. TERMINATE BRANCH CIRCUIT EQUIPMENT GROUNDING CONDUCTORS ON SOLIDLY BONDED EQUIPMENT GROUND BUS ONLY. DO NOT TERMINATE ON NEUTRAL (GROUNDED) OR ISOLATED/INSULATED GROUND BUS.

8. UNLESS OTHERWISE INDICATED, USE EXOTHERMIC WELDED CONNECTIONS FOR CONCEALED AND OTHER INACCESSIBLE CONNECTIONS.
   8.1. EXOTHERMIC WELDS: MAKE CONNECTIONS USING MOLDS AND WELD MATERIAL SUITABLE FOR THE ITEMS TO BE CONNECTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

9. UNLESS OTHERWISE INDICATED, USE MECHANICAL CONNECTORS, COMPRESSION CONNECTORS, OR EXOTHERMIC WELDED CONNECTIONS FOR ACCESSIBLE CONNECTIONS.
   9.1. MECHANICAL CONNECTORS: SECURE CONNECTIONS ACCORDING TO MANUFACTURER'S RECOMMENDED TORQUE SETTINGS.
   9.2. COMPRESSION CONNECTORS: SECURE CONNECTIONS USING MANUFACTURER'S RECOMMENDED TOOLS AND DIES.

26 05 29 - HANGERS AND SUPPORTS:

1. SECURE AND SUPPORT CONDUIT IN ACCORDANCE WITH NFPA 70 USING SUITABLE SUPPORTS AND METHODS APPROVED BY THE AUTHORITY HAVING JURISDICTION. PROVIDE INDEPENDENT SUPPORT FROM BUILDING STRUCTURE. DO NOT PROVIDE SUPPORT FROM RACEWAYS, PIPING, DUCTWORK, OR OTHER SYSTEMS.

26 05 33 - CONDUIT:

1. COORDINATE THE ARRANGEMENT OF CONDUITS WITH STRUCTURAL MEMBERS, DUCTWORK, PIPING, EQUIPMENT AND OTHER POTENTIAL CONFLICTS INSTALLED BY OTHERS.

2. DO NOT USE CONDUIT AND ASSOCIATED FITTINGS FOR APPLICATIONS OTHER THAN AS PERMITTED BY NFPA 70 AND PRODUCT LISTING.

3. UNLESS OTHERWISE INDICATED AND WHERE NOT OTHERWISE RESTRICTED, USE THE CONDUIT TYPES INDICATED FOR THE SPECIFIED APPLICATIONS.
   3.1. INTERIOR, DRY LOCATIONS, CONCEALED: USE ELECTRICAL METALLIC TUBING (EMT). TYPE MC CABLE IS ACCEPTABLE WHERE APPROVED BY THE OWNER AND PERMITTED BY THE NATIONAL ELECTRICAL CODE. HOME RUN SHALL BE IN CONDUIT.
   3.2. CONNECTIONS TO VIBRATING EQUIPMENT: USE LIQUIDTIGHT FLEXIBLE METAL CONDUIT.
   3.3. INTERIOR, DAMP OR WET LOCATIONS: USE INTERMEDIATE METAL CONDUIT (IMC).

4. ALL NEW CONDUITS SHALL BE 3/4" TRADE SIZE MINIMUM.

5. UNLESS DIMENSIONED, CONDUIT ROUTING IS DIAGRAMMATIC.

6. CONCEAL ALL CONDUITS UNLESS SPECIFICALLY INDICATED TO BE EXPOSED.

7. RUN ALL CONDUIT AND WIRE TIGHT TO BUILDING STRUCTURE WHERE POSSIBLE. ALL RUNS SHALL BE SQUARE AND TRUE WITH BUILDING LINES.

8. CONDUIT MOVEMENT PROVISIONS: WHERE CONDUITS ARE SUBJECT TO MOVEMENT, PROVIDE EXPANSION AND EXPANSION/DEFLECTION FITTINGS TO PREVENT DAMAGE TO ENCLOSED CONDUCTORS OR CONNECTED EQUIPMENT.

9. PROVIDE PULL STRING IN ALL EMPTY CONDUITS AND IN CONDUITS WHERE CONDUCTORS AND CABLES ARE TO BE INSTALLED BY OTHERS.

10. CLEAN INTERIOR OF CONDUITS TO REMOVE MOISTURE AND FOREIGN MATTER. IMMEDIATELY AFTER INSTALLATION OF CONDUIT, USE SUITABLE MANUFACTURED PLUGS TO PROVIDE PROTECTION FROM ENTRY OF MOISTURE AND FOREIGN MATERIAL AND DO NOT REMOVE UNTIL READY FOR INSTALLATION OF CONDUCTORS.

11. IN FINISHED AREAS, PAINT SURFACE MOUNTED STEEL CONDUIT AND JUNCTION/DEVICE BOXES MATCHING WALL COLOR. COORDINATE LOCATIONS WITH THE ARCHITECT.

26 05 33.23 - SURFACE RACEWAY:

1. PROVIDE ALL COMPONENTS, FITTINGS, DIVIDERS, CLIPS, SUPPORTS AND ACCESSORIES REQUIRED FOR A COMPLETE RACEWAY SYSTEM.

2. MANUFACTURER'S STANDARD FINISH / COLOR: IVORY.

3. PLASTIC RACEWAY IS NOT PERMITTED.

4. ONE PIECE STEEL SURFACE RACEWAY SHALL BE EQUAL TO WIREMOLD V500 OR V700 SIZED TO ACCOMMODATE THE NEC REQUIRED RACEWAY WIRE FILL REQUIREMENTS.

5. TWO PIECE STEEL SURFACE RACEWAY SHALL BE EQUAL TO WIREMOLD #V3000 SERIES FOR SINGLE COMPARTMENT APPLICATIONS AND EQUAL TO #V4000 SERIES FOR MULTI COMPARTMENT APPLICATIONS. RECEPTACLES / DATA OUTLETS SHALL BE 18" ON CENTER UNLESS NOTED OTHERWISE ON THE DRAWINGS.

6. COORDINATE THE PLACEMENT OF RACEWAYS WITH MILLWORK, FURNITURE, EQUIPMENT, ETC. INSTALLED UNDER OTHER SECTIONS OR BY OTHERS.

7. VERIFY MINIMUM SIZES OF RACEWAYS WITH THE ACTUAL CONDUCTORS AND COMPONENTS TO BE INSTALLED.

8. DO NOT INSTALL RACEWAYS UNTIL FINAL SURFACE FINISHES AND PAINTING ARE COMPLETE.

9. SURFACE METAL RACEWAY SHALL BE USED WHERE NECESSARY FOR NEW DEVICES ON EXISTING WALLS/CEILINGS. CONTRACTOR SHALL MINIMIZE SURFACE RACEWAY AS MUCH AS PRACTICAL. CONTRACTOR SHALL PROVIDE A DETAILED SURFACE RACEWAY PLAN FOR APPROVAL PRIOR TO COMMENCING WORK.

26 05 34 - BOXES:

1. COORDINATE MINIMUM SIZES OF BOXES WITH THE ACTUAL INSTALLED ARRANGEMENT OF CONDUCTORS, CLAMPS, SUPPORT FITTINGS, AND DEVICES, CALCULATED ACCORDING TO NFPA 70.

2. COORDINATE THE PLACEMENT OF BOXES WITH MILLWORK, FURNITURE, DEVICES, EQUIPMENT, ETC.

3. DO NOT USE BOXES AND ASSOCIATED ACCESSORIES FOR APPLICATIONS OTHER THAN AS PERMITTED BY NFPA 70 AND PRODUCT LISTING.

4. PROVIDE ALL BOXES, FITTINGS, SUPPORTS, AND ACCESSORIES REQUIRED FOR A COMPLETE RACEWAY SYSTEM AND TO ACCOMMODATE DEVICES AND EQUIPMENT TO BE INSTALLED.

5. WHERE BOX SIZE IS NOT INDICATED, SIZE TO COMPLY WITH NFPA 70 BUT NOT LESS THAN APPLICABLE MINIMUM SIZE REQUIREMENTS SPECIFIED.

6. FLUSH-MOUNT BOXES IN FINISHED AREAS UNLESS SPECIFICALLY INDICATED TO BE SURFACE-MOUNTED. UNLESS OTHERWISE INDICATED, BOXES MAY BE SURFACE-MOUNTED WHERE EXPOSED CONDUITS ARE INDICATED OR PERMITTED.

7. LOCATE JUNCTION AND PULL BOXES AS INDICATED, AND AS REQUIRED TO FACILITATE INSTALLATION OF CONDUCTORS, AND TO LIMIT CONDUIT LENGTH AND/OR NUMBER OF BENDS BETWEEN PULLING POINTS. LOCATE BOXES TO BE ACCESSIBLE. PROVIDE ACCESS PANELS AS REQUIRED WHERE APPROVED BY THE ARCHITECT.

8. CLEAN INTERIOR OF BOXES TO REMOVE DIRT, DEBRIS, PLASTER AND OTHER FOREIGN MATERIAL. IMMEDIATELY AFTER INSTALLATION, PROTECT BOXES FROM ENTRY OF MOISTURE AND FOREIGN MATERIAL UNTIL READY FOR INSTALLATION OF CONDUCTORS.

26 05 53 - IDENTIFICATON:

1. LABEL ALL NEW DISTRIBUTION EQUIPMENT WITH WHITE PHENOLIC TAG WITH BLACK CORE LETTERING INDICATING SOURCE PANEL AND CIRCUIT. DO NOT COVER SCREWS OF COVERPLATE.

26 24 16 - PANELBOARDS:

1. COORDINATE THE WORK WITH OTHER TRADES TO AVOID PLACEMENT OF DUCTWORK, PIPING, EQUIPMENT, OR OTHER POTENTIAL OBSTRUCTIONS WITHIN THE DEDICATED EQUIPMENT SPACES AND WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT REQUIRED BY NFPA 70.

2. COORDINATE ARRANGEMENT OF ELECTRICAL EQUIPMENT WITH THE DIMENSIONS AND CLEARANCE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE INSTALLED.

3. CONDUCTOR TERMINATIONS: SUITABLE FOR USE WITH THE CONDUCTORS TO BE INSTALLED.

4. PROVIDE BOLT-ON OR LOCKING PLUG-IN MOLDED CASE CIRCUIT BREAKERS WITH INTERRUPTING CAPACITY AS REQUIRED TO PROVIDE THE SHORT CIRCUIT CURRENT RATING INDICATED, BUT NOT LESS THAN:
   4.1. 10,000 RMS SYMMETRICAL AMPERES AT 240 VAC OR 208 VAC.
   4.2. 14,000 RMS SYMMETRICAL AMPERES AT 480 VAC.

5. DO NOT USE TANDEM CIRCUIT BREAKERS.

6. PROVIDE UPDATED TYPED PANEL DIRECTORIES IN ALL AFFECTED PANELS.

7. ALL BUSSING SHALL BE ALUMINUM OR COPPER.

8. PROVIDE FULLY RATED NEUTRAL BUS, WITH A SUITABLE LUG FOR EACH FEEDER OR BRANCH CIRCUIT REQUIRING A NEUTRAL CONNECTION.

9. PROVIDE SOLIDLY BONDED EQUIPMENT GROUND BUS IN EACH PANELBOARD, WITH A SUITABLE LUG FOR EACH FEEDER AND BRANCH CIRCUIT EQUIPMENT GROUNDING CONDUCTOR.

10. LOCKABLE DOORS: ALL LOCKS KEYED ALIKE UNLESS OTHERWISE INDICATED.

11. LOAD CENTERS ARE NOT ACCEPTABLE.

12. PROVIDE THE FOLLOWING FEATURES AND ACCESSORIES WHERE INDICATED OR WHERE REQUIRED TO COMPLETE INSTALLATION:
    12.1. FEED-THROUGH LUGS.
    12.2. SUB-FEED LUGS.

26 27 26 - WIRING DEVICES:

1. ALL RECEPTACLE AND LIGHTING CIRCUITS SHALL BE 20A UNLESS OTHERWISE SPECIFIED.
   1.1. ALL RESTROOM AND KITCHEN RECEPTACLES SHALL HAVE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) PROTECTION.

2. WIRING DEVICES (RECEPTACLES, SWITCHES, ETC.) SHALL BE INDUSTRIAL GRADE.
   2.1. WIRING DEVICE AND WALL PLATE COLORS SHALL BE SELECTED BY THE ARCHITECT FROM WIRING DEVICE MANUFACTURER'S STANDARD COLORS.
   2.2. CEILING MOUNTED DEVICES SHALL MATCH CEILING COLOR.

3. WHERE SHOWN ON NEW WALLS, WIRING DEVICES (RECEPTACLES, SWITCHES, DATA OUTLETS ETC.) SHALL BE RECESSED UNLESS NOTED OTHERWISE ON THE DRAWINGS.

4. INSTALL RECEPTACLE WITH GROUND PIN IN THE UP POSITION.

5. WIRING DEVICES SHALL BE HORIZONTALLY AND VERTICALLY ALIGNED WITH EACH OTHER. REFER TO THE MOUNTING HEIGHT ELEVATION DETAIL.

6. GROUP POWER AND TECHNOLOGY WIRING DEVICES TOGETHER WHERE SHOWN ADJACENT TO EACH OTHER.

7. LABEL EACH WIRING DEVICE WITH PANEL NUMBER AND CIRCUIT. LABEL SHALL BE SELF ADHESIVE WITH A CLEAR BACKGROUND AND BLACK FONT.

28 46 13 - FIRE ALARM:

1. PROVIDE FIRE ALARM SYSTEM DESIGN PERMIT DRAWINGS. DRAWINGS SHALL BE COMPLETED AND SEALED BY A CERTIFIED FIRE ALARM SYSTEM CONTRACTOR. PROVIDE FEES AND ACCEPTANCE TESTING THAT SHALL BE WITNESSED BY THE AUTHORITY HAVING JURISDICTION. PROVIDE EQUIPMENT AND WIRING. PROVIDE PROGRAMMING, COMMISSIONING AND OWNER INSTRUCTION.

2. ALL NEW FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH THE EXISTING SILENT KNIGHT FIRE ALARM SYSTEM. THE ELECTRICAL CONTRACTOR SHALL SUBCONTRACT WITH THE BUILDING FIRE ALARM VENDOR. WORK PROVIDED BY THE FIRE ALARM VENDOR SHALL BE PROVIDED AS PART OF THE ELECTRICAL BASE BID CONTRACT.

3. UPGRADE THE EXISTING FIRE ALARM CONTROL PANEL AS REQUIRED PER THE FIRE ALARM VENDOR'S RECOMMENDATIONS.

4. THIS CONTRACTOR SHALL PERFORM BATTERY CALCULATIONS, UPDATE FIRE ALARM SYSTEM RISER DIAGRAM AND PLAN, AND SECURE THE FIRE ALARM PERMIT.

5. ALL FIRE ALARM VISUAL ANNUNCIATING DEVICES SHALL BE SYNCHRONIZED PER NFPA 72. PROVIDE NEW OR REPLACE EXISTING NAC EXTENDER PANELS WHERE NECESSARY TO ACCOMPLISH SYNCHRONIZATION. PROVIDE ADDITIONAL BRANCH CIRCUITS AS REQUIRED. EACH NAC PANEL SHALL HAVE A SMOKE DETECTOR IN THE SAME ROOM.

6. ALL FIRE ALARM WIRING MUST BE SOLID COPPER WIRING. STRANDED WIRING MUST NOT BE USED. MATCH EXISTING FIRE ALARM WIRING STANDARD (CLASS AND STYLE ETC.).

7. ALL FIRE ALARM WIRING MUST BE INSTALLED IN CONDUIT. CONDUIT MUST BE RIGID METAL OR ELECTRICAL METALLIC TUBING, WITH A MINIMUM INSIDE DIAMETER OF 19 MM (3/4 INCH) THAT UTILIZES COMPRESSION TYPE FITTINGS AND COUPLINGS.

8. PROVIDE ALL PROGRAMMING AND INTEGRATION WITH THE EXISTING FIRE ALARM SYSTEM.

ABBREVIATIONS:

A.F.F.	—	ABOVE FINISHED FLOOR
A.H.J.	—	AUTHORITY HAVING JURISDICTION
CU	—	COPPER WIRING
E.C.	—	ELECTRICAL CONTRACTOR
E/R	—	EXISTING RELOCATED
FACP	—	FIRE ALARM CONTROL PANEL
GFCI	—	GROUND FAULT CIRCUIT INTERRUPTER
GND	—	GROUND
HP	—	HORSEPOWER
ID	—	INTERIOR DIAMETER
M.C.	—	MECHANICAL CONTRACTOR
NEC	—	NATIONAL ELECTRICAL CODE
NL	—	NIGHT LIGHT. WHERE FIXTURE IS DESIGNATED AS A NIGHT LIGHT, WIRE TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL LOCAL SWITCHING.
P.C.	—	PLUMBING CONTRACTOR
SUR	—	SURFACE MOUNTED
TAAC	—	TO ABOVE ACCESSIBLE CEILING
TYP.	—	TYPICAL
VFD	—	VARIABLE FREQUENCY DRIVE

LEGEND:

$	—	NEW ITEM TO BE INSTALLED.
$	—	EXISTING ITEM TO REMAIN.
$	—	EXISTING ITEM TO BE REMOVED.
	—	WIRING.
	—	UNDERGROUND WIRING.
A1-12	—	CIRCUIT HOME RUN, LABEL INDICATES PANEL AND CIRCUIT NUMBER.
	—	SPECIAL RECEPTACLE, COORDINATE EXACT TYPE AND NEMA CONFIGURATION.
	—	NEMA 5-20R, 20A, 125V AC STRAIGHT BLADE SIMPLEX RECEPTACLE.
	—	NEMA 5-20R, 20A, 125V AC STRAIGHT BLADE DUPLEX RECEPTACLE.
GFCI	—	NEMA 5-20R, 20A, 125V AC STRAIGHT BLADE DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER (GFCI) PROTECTION.
	—	NEMA 5-20R, 20A, 125V AC STRAIGHT BLADE DOUBLE DUPLEX RECEPTACLE.
	—	FLOOR MOUNTED NEMA 5-20R, 20A, 125V AC STRAIGHT BLADE DUPLEX RECEPTACLE.
	—	JUNCTION BOX.
	—	ELECTRIC MOTOR.
$M	—	MANUAL STARTER SWITCH.
	—	HEAVY DUTY, NON-FUSIBLE DISCONNECT SWITCH, NEMA 1 600V. SURFACE MOUNTED.
	—	HEAVY DUTY, FUSED DISCONNECT SWITCH, NEMA 1 600V. SURFACE MOUNTED.
A1	—	PANELBOARD, SURFACE MOUNTED.
A1	—	PANELBOARD, FLUSH MOUNTED.
	—	DATA WALL OUTLET (ROUGH-IN ONLY). 4" SQUARE BOX WITH SINGLE GANG PLASTER RING AND BLANK COVERPLATE. PROVIDE 1" EMT FROM BOX TO ABOVE ACCESSIBLE CEILING, WITH BUSHING ON END AND PULLSTRING.
	—	TELEPHONE WALL OUTLET (ROUGH-IN ONLY). 4" SQUARE BOX WITH SINGLE GANG PLASTER RING AND BLANK COVERPLATE. PROVIDE 1" EMT FROM BOX TO ABOVE ACCESSIBLE CEILING, WITH BUSHING ON END AND PULLSTRING.
	—	FLOOR MOUNTED DATA OUTLET (ROUGH-IN ONLY). PROVIDE 1" EMT FROM FLOOR BOX TO ABOVE ACCESSIBLE CEILING, WITH BUSHING ON END AND PULLSTRING.
WAP	—	WIRELESS ACCESS POINT, CEILING MOUNTED.
	—	SPEAKER.
	—	CEILING MOUNTED CAMERA.
	—	WALL MOUNTED CAMERA.
	—	PUSH BUTTON.
M	—	ELECTRIC DOOR LOCK/STRIKE (ROUGH-IN ONLY). STRIKE IS MOUNTED INTO THE SIDE OF THE DOOR. 3/4" CONDUIT STUB TAAC, SWEEP FITTING, INSULATED BUSHING AND PULL STRING.
DS	—	DOOR STATUS CONTACT(S) (ROUGH-IN ONLY). SWITCH IS RECESSED INTO THE DOOR FRAME. 3/4" CONDUIT STUB TAAC, SWEEP FITTING, INSULATED BUSHING AND PULL STRING.
KP	—	KEY PAD.
CR	—	CARD READER. (ROUGH-IN ONLY) 1-GANG BOX, 3/4" CONDUIT STUB TAAC, SWEEP FITTING, INSULATED BUSHING AND PULL STRING.
MS	—	MOTION SENSOR.
M	—	MANUAL FIRE ALARM PULL STATION.
F#	—	FIRE ALARM STROBE, MINIMUM CANDELA RATING INDICATED.
F#	—	FIRE ALARM SPEAKER/STROBE, 85dB MINIMUM AT 10'.
S	—	FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR.
S	—	FIRE ALARM DUCT SMOKE DETECTOR.
A,B,C	—	CAPITAL LETTER DENOTES LIGHT FIXTURE TYPE, SEE FIXTURE SCHEDULE.
$	—	SINGLE-POLE TOGGLE SWITCH, 120/277V, 20A, WITH WALL PLATE.
$3	—	3-WAY TOGGLE SWITCH, 120/277V, 20A, WITH WALL PLATE.
$D	—	DIMMER SWITCH.
$L	—	LOW VOLTAGE SWITCH.
$P	—	HP-RATED SWITCH WITH PILOT LIGHT.
$OS	—	WALL MOUNTED OCCUPANCY SENSOR, WATTSTOPPER #DSW-301 OR APPROVED EQUAL, DUAL TECHNOLOGY, LINE VOLTAGE SENSOR. SENSORS TO OPERATE IN "MANUAL ON " MODE. PROVIDE SENSOR WITH INTEGRAL "OVERRIDE" SWITCH.
$OSD	—	WALL MOUNTED OCCUPANCY SENSOR WITH DIMMER, WATTSTOPPER #DW-311 OR APPROVED EQUAL, DUAL TECHNOLOGY, LINE VOLTAGE SENSOR. SENSORS TO OPERATE IN "MANUAL ON" MODE. 0-10VDC DIMMER. UP AND DOWN BUTTON.
OS	—	CEILING MOUNTED OCCUPANCY SENSOR FOR CEILINGS BETWEEN 8-12 FEET A.F.F. WATTSTOPPER #DT-300 OR APPROVED EQUAL, DUAL TECHNOLOGY, LOW VOLTAGE SENSOR, WITH ALL ASSOCIATED POWER PACKS TO ACHIEVE CONTROL AS INDICATED. SENSOR TO OPERATE IN "MANUAL ON " MODE WHEN SHOWN WITH LOW-VOLTAGE SWITCHING.

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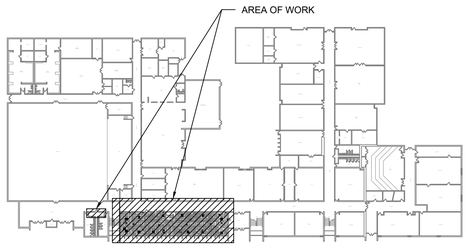
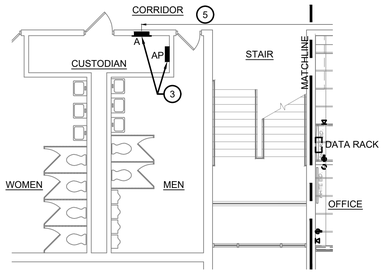


KEY PLAN
SCALE: NONE



ELECTRICAL DEMOLITION PLAN
SCALE: 1/8"=1'-0"

DEMOLITION GENERAL NOTES:

A. EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE TAKEN FROM ORIGINAL DRAWINGS AND FIELD INVESTIGATION. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO BID. FIELD CONDITIONS SHALL GOVERN.

B. ALL CONDUITS AND/OR WIRING SERVING OTHER SPACES OR FLOORS, THAT RUN THROUGH THE PROJECT AREA SHALL REMAIN ACTIVE DURING CONSTRUCTION SO AS NOT TO CAUSE ANY DISRUPTION TO THESE OTHER SPACES.

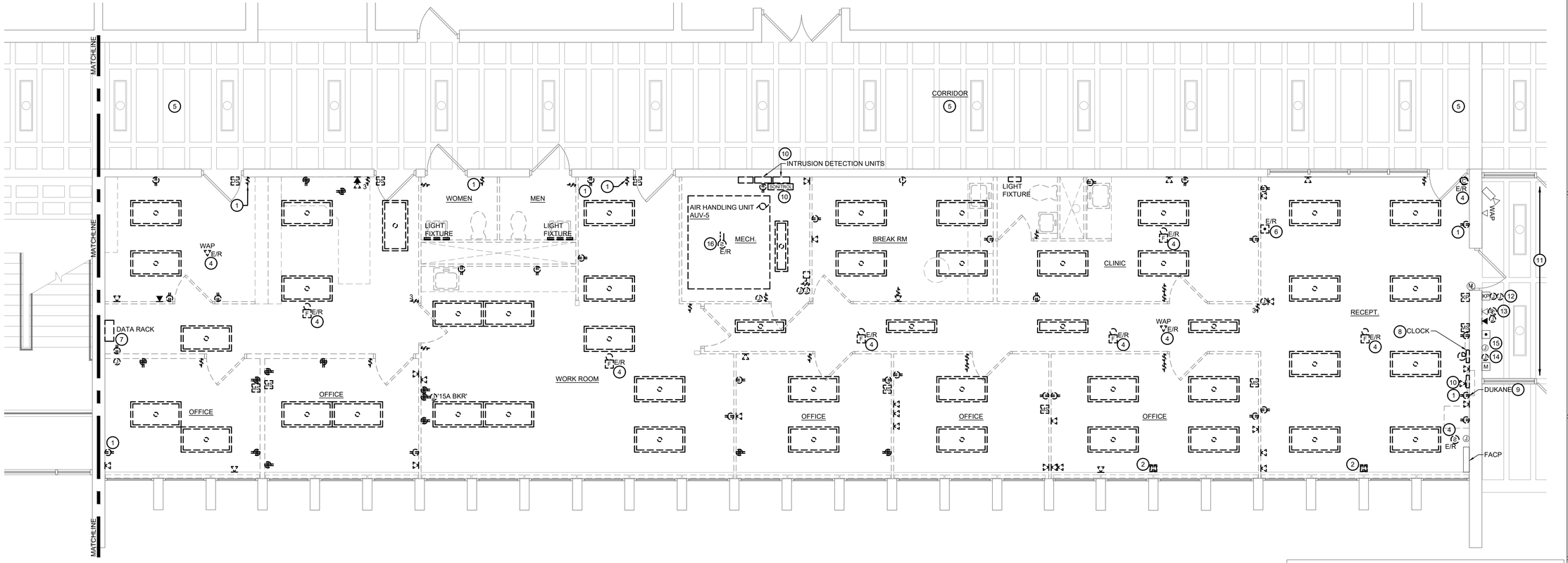
C. ALL CEILING MOUNTED DEVICES NOT SPECIFICALLY INDICATED IN THE PROJECT AREA SHALL BE REMOVED AND REINSTALLED TO FACILITATE INSTALLATION OF NEW CEILINGS/LIGHT FIXTURES.

D. REMOVE AND REINSTALL EXISTING TO REMAIN WIRING DEVICES AND EQUIPMENT AS REQUIRED TO FACILITATE NEW WALL PAINTING.

E. ALL CONDUIT, WIRING, BOXES, AND RACEWAY THAT IS NOT BEING REUSED SHALL BE REMOVED BACK TO PANEL FROM WHERE IT ORIGINATES.

○ DEMOLITION NOTES:

1. MAINTAIN EXISTING RECESSED BOX FOR NEW WIRING DEVICE. REFER TO THE NEW WORK PLANS.
2. REMOVE FLOOR OUTLET. INFILL WITH CONCRETE. GRIND FLUSH WITH THE FINISHED FLOOR.
3. EXISTING PANELBOARD SHALL REMAIN.
4. RELOCATE CAMERA, FIRE ALARM DEVICES, SECURITY EQUIPMENT, WI-FI EQUIPMENT ETC... DENOTED WITH AN "E/R". REFER TO THE NEW WORK PLANS FOR LOCATION. EXTEND EXISTING CIRCUITS AS REQUIRED.
5. REMOVE AND REINSTALL CEILING MOUNTED EQUIPMENT, LIGHTING AND OTHER DEVICES TO FACILITATE THE INSTALLATION OF NEW CONDUITS IN THIS ROOM.
6. RELOCATE DOOR RELEASE PUSHBUTTON TO THE NEW DESK AS SHOWN ON THE NEW WORK PLAN. EXTEND EXISTING CIRCUIT AS REQUIRED.
7. EXISTING WALL MOUNTED DATA RACK SHALL BE RELOCATED BY THE OWNER. RACK WILL BE MOVING TO ROOM 112 - IT CLOSET AS SHOWN ON THE NEW WORK PLAN.
8. REMOVE BUILDING CLOCK SYSTEM AND ASSOCIATED WIRING.
9. REMOVE DUKANE INTERCOM SYSTEM CABINET AND TURN EQUIPMENT OVER TO THE OWNER. RELOCATE AUDIO CABLES PENETRATING WALL TO A LOCATION ABOVE THE GRID CEILING. BUNDLE CABLES AND PROVIDE A TAG THAT THESE CABLES ARE FOR THE DUKANE INTERCOM SYSTEM. COORDINATE WITH THE OWNER PRIOR TO DEMOLITION. PATCH BRICK WALL.
10. REMOVE SECURITY PANELS, MOTION DETECTORS AND ASSOCIATED WIRING. COORDINATE WITH THE OWNER PRIOR TO DEMOLITION.
11. REMOVE ABANDONED WALL MOUNTED EQUIPMENT AS REQUIRED TO FACILITATE NEW ARCHITECTURAL WORK ON THE WALL. REMOVE ALL INCLUSIONS, ANCHORS, SCREWS, ETC. PATCH MASONRY. COORDINATE DEMOLITION WITH THE ARCHITECT PRIOR TO ROUGH-IN.
12. REMOVE COVERPLATE, BOX AND WIRING ABOVE AND BELOW INTERCOM. PATCH BRICK WALL.
13. REMOVE SPEAKER AND THERMOSTAT.
14. REMOVE MOTION DETECTOR AND WIRING. REMOVE JUNCTION BOX IF ABANDONED.
15. REPLACE IVORY BLANK COVERPLATE WITH BROWN.
16. RELOCATE DUCT DETECTOR AS REQUIRED TO FACILITATE THE REPLACEMENT OF THE MECHANICAL UNIT. COORDINATE WITH THE MECHANICAL CONTRACTOR PRIOR TO DEMOLITION.



ELECTRICAL DEMOLITION PLAN
SCALE: 1/4"=1'-0"

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office renovation for:
valley view board of education
6027 farmersville pike
germantown, ohio 45327

electrical demolition plan

project number
251431
date
1/23/2026
drawn by
EGM
checked by
SLC

sheet
E1.1

NEW WORK GENERAL NOTES:

A. THE SPACE ABOVE THE CEILING IS A RETURN AIR PLENUM. CABLING ABOVE THE CEILING SHALL BE PLENUM RATED OR INSTALLED IN CONDUIT.

B. ANY ROOF PENETRATIONS TO BE COORDINATED WITH ROOF MANUFACTURER'S REQUIREMENTS (TO ENSURE EXISTING WARRANTY REMAINS) AND ROOF REMAINS IN WATERTIGHT CONDITION. ALTERATIONS TO ROOF SHALL BE PERFORMED BY A ROOFING CONTRACTOR CERTIFIED BY THE ROOFING MANUFACTURER TO MAKE ALTERATIONS AND MAINTAIN WARRANTY.

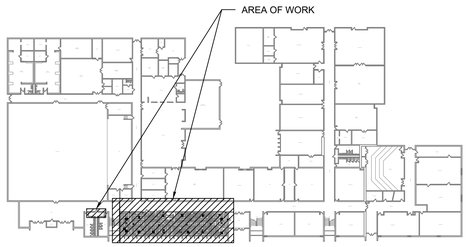
C. CIRCUIT EMERGENCY AND EXIT LUMINAIRES AHEAD OF LOCAL SWITCHING PER LOCAL AND NATIONAL ELECTRICAL CODES.

D. LOCATE OCCUPANCY SENSORS AT LEAST 6'-0" FROM HVAC SUPPLY AND RETURN DIFFUSERS.

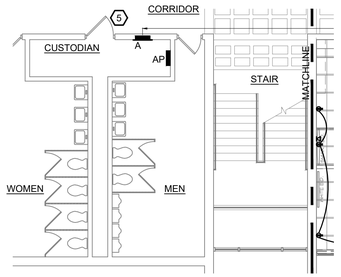
E. NEW WALLS WILL GO TO DECK. REMOVE AND REINSTALL EXISTING CONDUITS, CABLING, EQUIPMENT AND OTHER ABOVE CEILING ELECTRICAL WORK TO FACILITATE THE INSTALLATION OF NEW WALLS. PROVIDE FIRESTOPPING AS REQUIRED.

⬡ INSTALLATION NOTES:

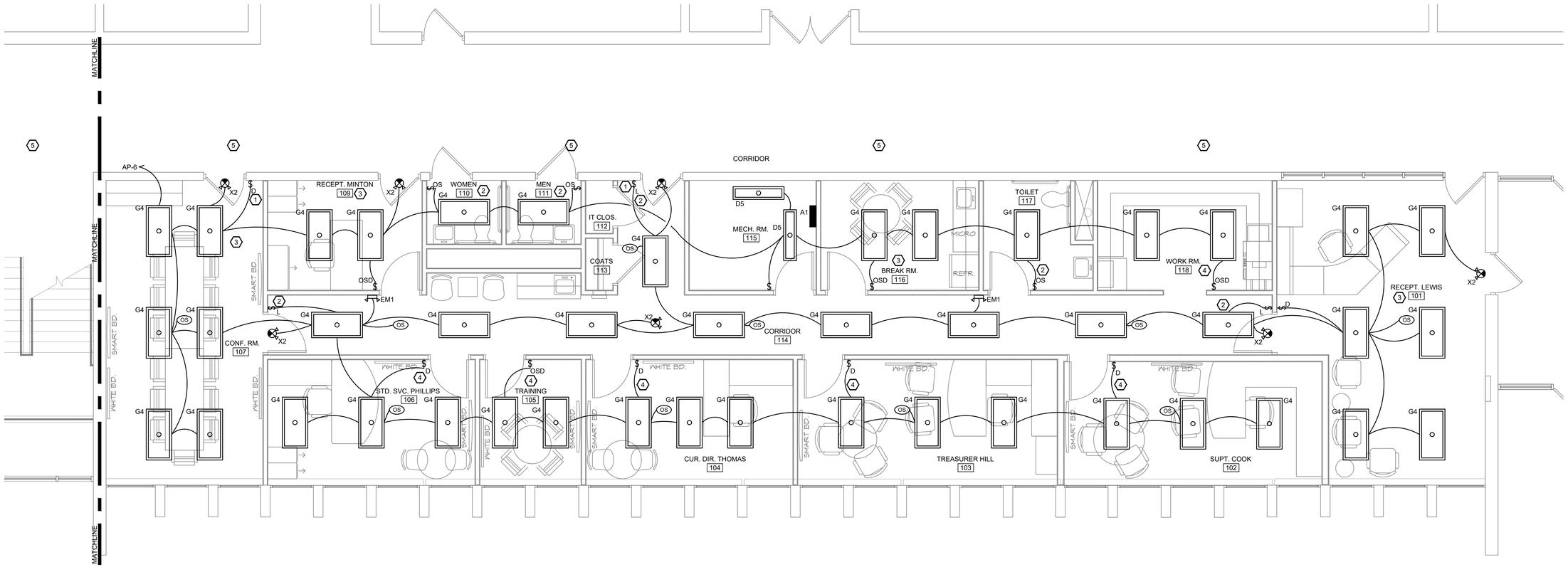
1. INSTALL WIRING DEVICE IN EXISTING RECESSED BOX.
2. LIGHTING CONTROL SEQUENCE OF OPERATION SHALL BE AS FOLLOWS:
   AUTOMATIC ON VIA OCCUPANCY SENSOR.
   AUTOMATIC OFF AFTER 20 MINUTES OF INACTIVITY.
   WALL SWITCHES SHALL NOT BE CAPABLE OF DIMMING.
3. LIGHTING CONTROL SEQUENCE OF OPERATION SHALL BE AS FOLLOWS:
   AUTOMATIC ON VIA OCCUPANCY SENSOR.
   AUTOMATIC OFF AFTER 20 MINUTES OF INACTIVITY.
   WALL SWITCHES SHALL BE CAPABLE OF DIMMING.
4. LIGHTING CONTROL SEQUENCE OF OPERATION SHALL BE AS FOLLOWS:
   MANUAL ON VIA WALL SWITCHES.
   AUTOMATIC OFF AFTER 20 MINUTES OF INACTIVITY.
   WALL SWITCHES SHALL BE CAPABLE OF DIMMING.
5. REMOVE AND REINSTALL CEILING MOUNTED EQUIPMENT, LIGHTING AND OTHER DEVICES TO FACILITATE THE INSTALLATION OF NEW CONDUITS IN THIS ROOM.



KEY PLAN
SCALE: NONE



LIGHTING NEW WORK PLAN
SCALE: 1/8"=1'-0"



LIGHTING NEW WORK PLAN
SCALE: 1/4"=1'-0"

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STATE OF OHIO
DANIEL T. GARMAN
E -74339
23 Jan 2026
REGISTERED
PROFESSIONAL ENGINEER

OREGON GROUP ARCHITECTS
ARCHITECTURE INTERIORS CODE CONSULTANTS
THE PARSONAGE HOUSE
300 S. PATTERSON BLVD DAYTON, OHIO 45402
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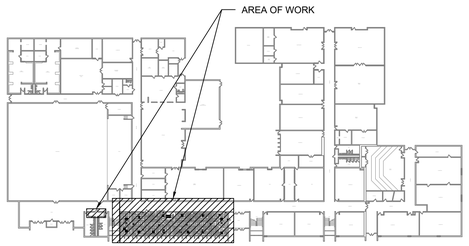
office renovation for:
valley view board of education
6027 farmersville pike
germantown, ohio 45327

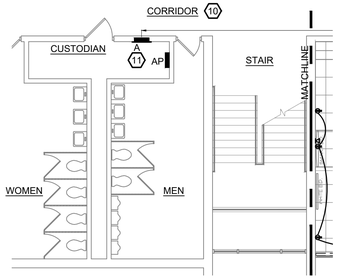
lighting new work plan

project number
251431
date
1/23/2026
drawn by
EGM
checked by
SLC

sheet
E2.1



KEY PLAN
SCALE: NONE



POWER NEW WORK PLAN
SCALE: 1/8"=1'-0"

NEW WORK GENERAL NOTES:

A. THE SPACE ABOVE THE CEILING IS A RETURN AIR PLENUM. CABLING ABOVE THE CEILING SHALL BE PLENUM RATED OR INSTALLED IN CONDUIT.

B. ANY ROOF PENETRATIONS TO BE COORDINATED WITH ROOF MANUFACTURER'S REQUIREMENTS (TO ENSURE EXISTING WARRANTY REMAINS) AND ROOF REMAINS IN WATERTIGHT CONDITION. ALTERATIONS TO ROOF SHALL BE PERFORMED BY A ROOFING CONTRACTOR CERTIFIED BY THE ROOFING MANUFACTURER TO MAKE ALTERATIONS AND MAINTAIN WARRANTY.

C. CIRCUIT EMERGENCY AND EXIT LUMINAIRES AHEAD OF LOCAL SWITCHING PER LOCAL AND NATIONAL ELECTRICAL CODES.

D. LOCATE OCCUPANCY SENSORS AT LEAST 6'-0" FROM HVAC SUPPLY AND RETURN DIFFUSERS.

E. NEW WALLS WILL GO TO DECK. REMOVE AND REINSTALL EXISTING CONDUITS, CABLING, EQUIPMENT AND OTHER ABOVE CEILING ELECTRICAL WORK TO FACILITATE THE INSTALLATION OF NEW WALLS. PROVIDE FIRESTOPPING AS REQUIRED.

GENERAL NOTES - COMMUNICATIONS TECHNOLOGY:

A. UNLESS NOTED OTHERWISE ON THE DRAWINGS, PROVIDE ROUGH-IN FOR COMMUNICATIONS DEVICES SUCH AS VOICE/DATA OUTLETS, CAMERAS, KEYPADS, MOTION SENSORS, SECURITY AND ACCESS CONTROL. COORDINATE WORK WITH THE OWNER.

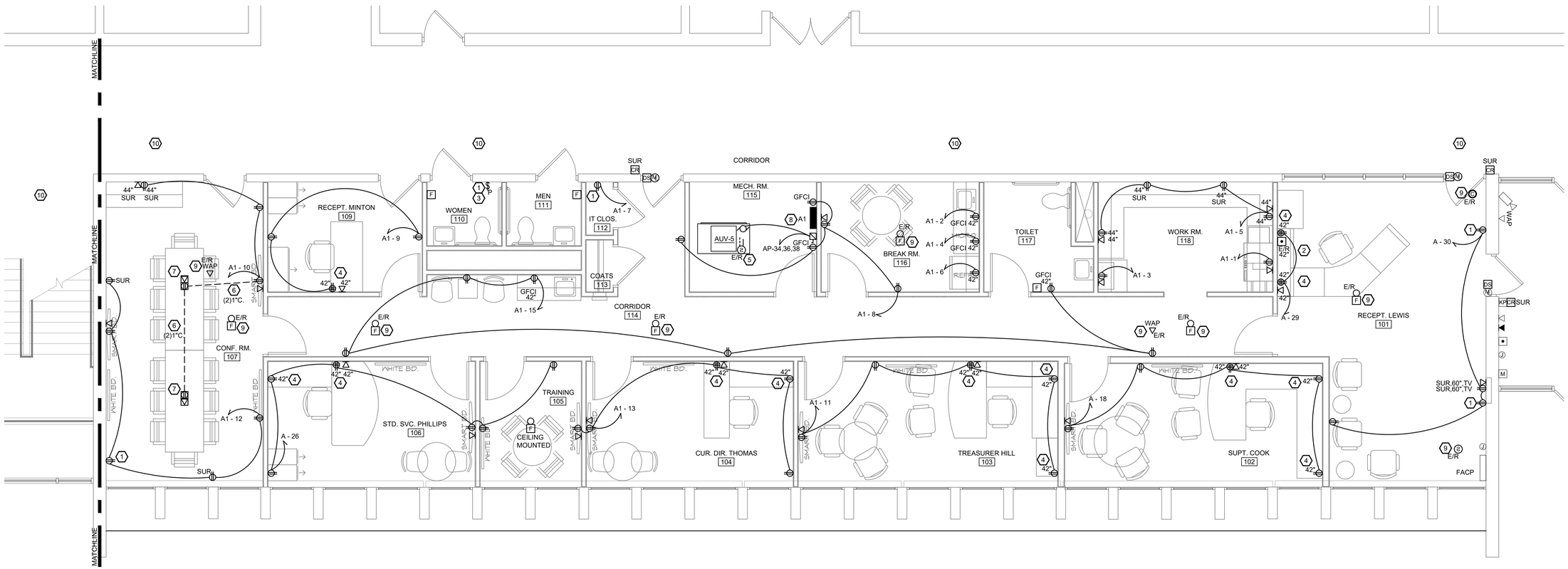
B. RELOCATE EXISTING DEVICES AS REQUIRED TO FACILITATE THE REPLACEMENT OF WALLS AND CEILINGS. EXTEND EXISTING CABLING AS REQUIRED.

C. CONDUIT STUBS ARE FOR LAY-IN CEILINGS ONLY. FOR DRYWALL OR HARD CEILINGS, RUN CONDUIT TO A LOCATION WHERE THE CABLING CAN BE ACCESSIBLE. PROVIDE PULL STRING.

D. PROVIDE BLANK WALL PLATES FOR UNUSED DEVICE BOXES.

INSTALLATION NOTES:

1. INSTALL WIRING DEVICE IN EXISTING RECESSED BOX.
2. INSTALL DOOR RELEASE BUTTON SAVED FROM DEMOLITION. VERIFY LOCATION WITH THE OWNER PRIOR TO ROUGH-IN. EXTEND EXISTING CIRCUIT AS REQUIRED.
3. PROVIDE LABEL THAT PILOT LIGHT SWITCH CONTROLS THE EXISTING ROOF MOUNTED EXHAUST FAN. COORDINATE WITH MECHANICAL CONTRACTOR.
4. MOUNT DESK RECEPTACLES AND DATA OUTLETS ABOVE COUNTER. VERIFY MOUNTING HEIGHTS AND DESK LOCATIONS WITH THE OWNER PRIOR TO ROUGH-IN.
5. RELOCATE DUCT DETECTOR AS REQUIRED TO FACILITATE THE REPLACEMENT OF THE MECHANICAL UNIT. COORDINATE WITH THE MECHANICAL CONTRACTOR PRIOR TO DEMOLITION.
6. PROVIDE SAWCUT, CONDUITS, CONDUCTORS, BACKFILL AND FLOOR FINISHING FOR FLOOR BOXES.
7. PROVIDE MULTI-COMPARTMENT FLOOR BOX. FLOOR BOX SHALL BE EQUAL TO WIREMOLD #880CS2-1 TWO COMPARTMENT CAST IRON FLOOR BOX, #827B BRASS CARPET FLANGE, #828DPGFITC BRASS COVER PLATE AND #808COMTC BRASS COMMUNICATION COVER PLATE. PROVIDE DUPLEX RECEPTACLE AND DATA OUTLETS. COORDINATE LOCATION, FLANGE AND COVER FINISH WITH THE ARCHITECT PRIOR TO ROUGH-IN.
8. PROVIDE NEW PANELBOARD. PROVIDE NEW FEEDER TO PANEL A.
9. INSTALL CAMERA, FIRE ALARM DEVICES, SECURITY EQUIPMENT, WI-FI EQUIPMENT ETC...DENOTED WITH AN "E/R". EXTEND EXISTING CIRCUITS AS REQUIRED.
10. REMOVE AND REINSTALL CEILING MOUNTED EQUIPMENT, LIGHTING AND OTHER DEVICES TO FACILITATE THE INSTALLATION OF NEW CONDUITS IN THIS ROOM.
11. EXISTING PANELBOARD SHALL REMAIN.



POWER NEW WORK PLAN
SCALE: 1/4"=1'-0"

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office renovation for:
valley view board of education
6027 farmersville pike
germantown, ohio 45327

power new work plan

project number
251431
date
1/23/2026
drawn by
EGM
checked by
SLC

sheet
E2.2

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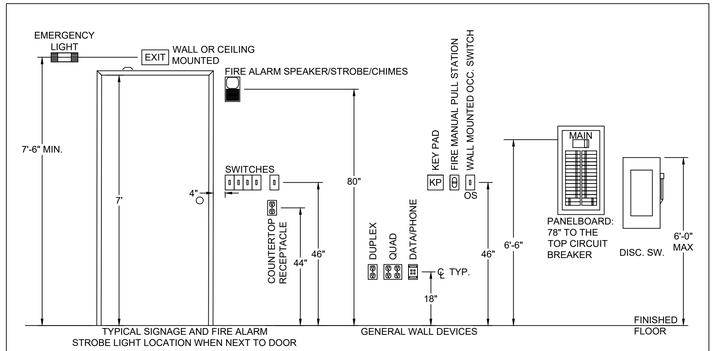
MOTORS, STARTERS, DISCONNECTS, AND CONTROLS

MOTOR												STARTER															DISCONNECT MEANS														CONTROL						FEEDER (COPPER)				
		CHARACTERISTICS										TYPE								LOCATION									TYPE						LOCATION																	
MOTOR NUMBER	SERVICE	HP (KVA OR FLA)	120VAC - 1PH	240VAC - 1PH	208VAC - 1PH	208VAC - 3PH	480VAC - 1PH	480VAC - 3PH	LOCATION	NEMA SIZE	MANUAL	MAGNETIC FULL VOLTAGE	BUILT-IN MOTOR OVERLOAD	2 SPEED	2 WINDING	MAGNETIC REVERSING	VFD	SEE NOTE	NEAR MOTOR	MOTOR CONTROL CENTER	EQUIPMENT CONTROL CENTER	ON COLUMN IN ROOM NUMBER	SEE NOTE	FURNISHED BY	DISCONNECT SWITCH	MANUAL STARTER	RECEPTACLE	FEEDER SWITCH OR BREAKER	VFD	NEAR MOTOR	MOTOR CONTROL CENTER	EQUIPMENT CONTROL CENTER	PANEL BOARD	SEE NOTE	FURNISHED BY	INTERLOCK WITH MOTOR NO. BY E.C.	MANUAL AT STARTER	LEVEL CONTROL PANEL	BY H.C.	SEE NOTE	# OF CONDUCTORS	WIRE SIZE	GROUND SIZE	CONDUIT SIZE	NOTES
AUV-5	AIR HANDLER #5	4.0 MCA						●	MECH. RM. 115				●						●					HC	●					●					EC				●		3	12	12	0.75	-

NOTES:



A E5.1 MOUNTING HEIGHT ELEVATION DETAIL

SCALE: NONE

FIXTURE SCHEDULE

SYMBOL	MARK	COLOR TEMPERATURE	LED	H.I.D.	HALOGEN	RECESSED	WALL MOUNTED	SURFACE MOUNTED	PENDANT MOUNTED	VOLTAGE	INPUT WATTS	MANUFACTURER AND SERIES	DESCRIPTION	NOTES
	D5	4000K	●					●		277	41	LITHONIA #ZL1D L48 5000LM FST MVOLT 40K 80CRI WH OR EQUAL BY COLUMBIA	4' LED STRIP. 5000 LUMENS, 4000K, WHITE, MVOLT	
	G4	VARIES	●			●				277	48	LITHONIA #CPX 2X4 ALO8 80CRI SWW7 SWL MVOLT OR EQUAL BY COLUMBIA	2'x4' LED FLAT PANEL SWITCHABLE 4000/5000/6000 LUMENS AND 35/40/50K COLOR TEMP, 0-10V DIMMABLE	2
	EM1	-	●				●			277	2	LITHONIA #ELM2L M12 OR EQUAL BY DUAL-LITE	LED EMERGENCY LIGHTING UNIT WITH TWO HEADS. WALL MOUNTED, WHITE	1
	X2	-	●							277	5	LITHONIA #LHQM LED R OR EQUAL BY DUAL-LITE	LED COMBINATION EXIT SIGN / EMERGENCY LIGHT. RED LETTERS, BATTERY, UNIVERSAL MOUNTING, WHITE	1

NOTES:

1. WIRE ALL EXIT AND EMERGENCY LIGHTS TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL LOCAL SWITCHING.
2. COORDINATE LIGHT FIXTURE BRIGHTNESS AND COLOR TEMPERATURE SETTING WITH THE OWNER. INITIAL SETTINGS ARE AS FOLLOWS: 5000K COLOR TEMP IN CORRIDORS. 4000K COLOR TEMP IN OFFICES. MIDDLE BRIGHTNESS SETTING.

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electrical details & equipment schedules

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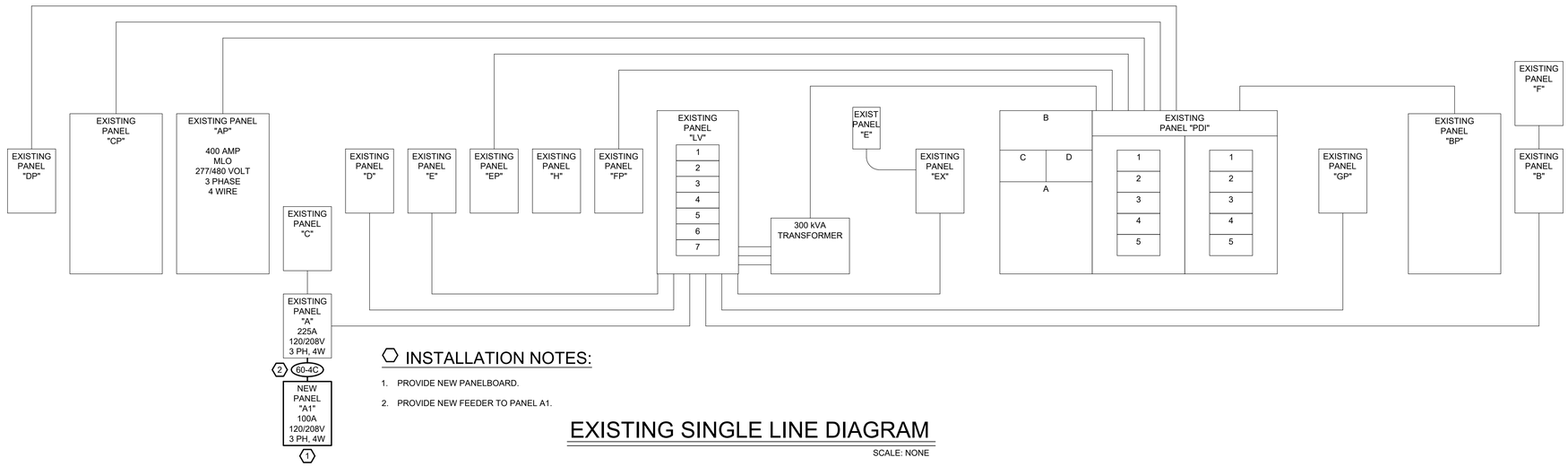

INSTALLATION NOTES:

1. PROVIDE NEW PANELBOARD.
2. PROVIDE NEW FEEDER TO PANEL A1.

EXISTING SINGLE LINE DIAGRAM

SCALE: NONE

Panel ID	AP (EXISTING)				Panel Load	Conn. kW		Demand kW	Demand Amps
					Total	213.24		220.15	264.8
Ampere	400A		Voltage	277/480V					
MLO/MB	MLO		Phase	3	Phase A	75.53		77.65	280.3
Amp AIC	Verify w/ Utility		Wire	4	Phase B	72.11		74.65	269.5
					Phase C	65.61		67.85	244.9

	CB #	Brkr	Conn. kW	Factor	Demand kW	Description	CB #	Brkr	Conn. kW	Factor	Demand kW	Description	
	1	20/1	3.40	1.25	4.25	HALL LIGHTS	2	20/1	1.90	1.25	2.38	HALL LIGHTS	
	3	20/1	2.28	1.25	2.85	LIGHTS	4	20/1	2.10	1.25	2.63	HALL LIGHTS	
	5	20/1	1.60	1.25	2.00	RESTROOM LIGHTS	6	20/1	**2.16**	**1.25**	**2.70**	**OFFICE LIGHTS**	#
*	7	20/1				**SPARE**	8	20/1				**SPARE**	*
	9	20/1	3.20	1.25	4.00	LIGHTS	10	20/1	2.60	1.25	3.25	LIGHTS	
	11	20/1	2.60	1.25	3.25	LIGHTS	12	20/1	2.60	1.25	3.25	LIGHTS	
	13	20/1	3.20	1.25	4.00	LIGHTS	14	30/1	6.60	1.00	6.60	HEAT	
	15	30/1	6.60	1.00	6.60	HALL	16	50/1	8.80	1.00	8.80	HEAT	
	17	20/1	5.06	1.00	5.06	HEAT	18	20/1	5.06	1.00	5.06	HEAT	
	19	50/1	10.00	1.00	10.00	35-HEAT	20	50/1	10.00	1.00	10.00	38-HEAT	
	21	50/1	7.00	1.00	7.00	36-HEAT	22	20/1	1.00	1.00	1.00	EXISTING	
	23	50/1	8.00	1.00	8.00	37-HEAT	24	-				SPACE	
	25	20/1	1.90	1.00	1.90	EXISTING	26	-				SPACE	
	27		0.83	1.00	0.83		28		0.83	1.00	0.83		
	29	20/3	0.83	1.00	0.83	27-AIR HANDLER	30	20/3	0.83	1.00	0.83	28-AIR HANDLER	
	31		0.83	1.00	0.83		32		0.83	1.00	0.83		
	33		0.83	1.00	0.83		34		**1.11**	**1.00**	**1.11**		#
	35	30/3	0.83	1.00	0.83	29-AIR HANDLER	36	20/3	**1.11**	**1.00**	**1.11**	**OFFICE AIR HANDLER AUV-5**	#
	37		0.83	1.00	0.83		38		**1.11**	**1.00**	**1.11**		#
	39		3.00	1.00	3.00		40		0.83	1.00	0.83		
	41	20/3	3.00	1.00	3.00	22-HEAT	42	20/3	0.83	1.00	0.83	32-AIR HANDLER	
	43		3.00	1.00	3.00		44		0.83	1.00	0.83		
	45						46						
	47	50/3				SPARE-19-33-HEATER GYM ENTRA	48	30/3				SPARE-23-34-HEATER MAIN ENTRA	
	49						50						
	51		10.40	1.00	10.40		52		6.37	1.00	6.37		
	53	50/3	10.40	1.00	10.40	19-HEAT	54	30/3	6.37	1.00	6.37	36-HEAT	
	55		10.40	1.00	10.40		56		6.37	1.00	6.37		
	57		6.00	1.00	6.00		58		0.83	1.00	0.83		
	59	30/3	6.00	1.00	6.00	21-HEAT	60	20/3	0.83	1.00	0.83	EXISTING	
	61		6.00	1.00	6.00		62		0.83	1.00	0.83		
	63		0.83	1.00	0.83		64		5.20	1.00	5.20		
	65	50/3	0.83	1.00	0.83	EXISTING	66	30/3	5.20	1.00	5.20	40-EXISTING	
	67		0.83	1.00	0.83		68		5.20	1.00	5.20		
	69		0.83	1.00	0.83		70		0.63	1.00	0.63		
	71	20/3	0.83	1.00	0.83	EXISTING	72	20/3	0.63	1.00	0.63	EXISTING	
	73		0.83	1.00	0.83		74		0.63	1.00	0.63		

PANEL IS FED FROM A 400 AMP FUSE IN PANEL PD1

PANEL PDI LOAD SUMMARY

DESCRIPTION	CONNECTED LOAD (KVA)	N.E.C. DEMAND FACTOR	CALCULATED LOAD (KVA)
ADDED LOAD			
LIGHTING	2.16	1.25	2.70
HVAC	3.33	1.00	3.33
RECEPTACLES	17.14	50%>10	13.57
CONTINUOUS		1.25	0.00
NONCONTINUOUS		1.00	0.00
REMOVED LOAD			
LIGHTING	-5.06	1.00	-5.06
HVAC	-5.49	1.00	-5.49
RECEPTACLES	-10.80	50%>10	-10.40
CONTINUOUS		1.25	0.00
NONCONTINUOUS		1.00	0.00
TOTAL			-1.35

TOTAL CALCULATED LOAD	-1.35	KVA
VOLTAGE	208	V
PHASE	3	PH
TOTAL CALCULATED LOAD	-3.74	AMPS

THE POST CONSTRUCTION CALCULATED LOAD AMPS IS LESS THAN THE PRE CONSTRUCTION CALCULATED. MORE LOAD IS BEING REMOVED THAN ADDED.

Panel ID	A (EXISTING)				Panel Load	Conn. kW		Demand kW	Demand Amps
					Total	57.42		57.42	159.4
Ampere	225A		Voltage	120/208V					
MLO/MB	MLO		Phase	3	Phase A	21.52		21.52	179.3
Amp AIC	Verify w/ Utility		Wire	4	Phase B	19.83		19.83	165.3
					Phase C	16.07		16.07	133.9

	CB #	Brkr	Conn. kW	Factor	Demand kW	Description	CB #	Brkr	Conn. kW	Factor	Demand kW	Description	
	1	30/2	2.52	1.00	2.52	HEATERS LIBRARY WORK ROOM	2	20/2	0.09	1.00	0.09	REC. MAIN CORRIDOR	
	3	/	2.52	1.00	2.52		4	/	0.09	1.00	0.09		
N	5		**3.70**		**3.70**		6	20/2	0.27	1.00	0.27	REC. GYM ENTRANCE	
N	7	**60/3**	**3.78**		**3.78**	**PANEL A1**	8	/	0.27	1.00	0.27		
N	9		**4.98**		**4.98**		10	20/1	**0.90**	**1.00**	**0.90**	**REC. GYM ENTRANCE**	1
	11	20/1	0.72	1.00	0.72	REC. GYM ENTRANCE	12	20/1	0.40	1.00	0.40	WATER COOLER MAIN CORRIDOR	
	13	20/1	1.00	1.00	1.00	REC. GYM SCOREBOARD	14	20/1				**SPARE**	*
	15	20/1	0.54	1.00	0.54	REC. GYM	16	20/1				**SPARE**	*
	17	20/1	0.54	1.00	0.54	REC. STAGE	18	20/1	**1.08**	**1.00**	**1.08**	**REC. OFFICE 102**	#
	19	20/1	0.72	1.00	0.72	REC. STAGE	20	20/1	0.40	1.00	0.40	REC. LIBRARY	
	21	20/1	0.72	1.00	0.72	REC. LIBRARY WORK ROOM	22	20/1	0.72	1.00	0.72	REC. 105	
	23	20/1	0.72	1.00	0.72	REC. LIBRARY WORK ROOM	24	20/1	0.40	1.00	0.40	REC. LIBRARY	
	25	20/1	0.72	1.00	0.72	REC. TEACHERS LOUNGE	26	20/1	**1.26**	**1.00**	**1.26**	**REC. OFFICE 106**	#
	27	20/1	0.72	1.00	0.72	REC. TEACHERS LOUNGE	28	20/1	0.36	1.00	0.36	REC. MAIN ENTRANCE	
#	29	20/1	**0.72**	**1.00**	**0.72**	**REC. OFFICE 101 (RECEPTION)**	30	20/1	**0.72**	**1.00**	**0.72**	**REC. RECEPTIONIST 101**	#
	31	20/1	1.50	1.00	1.50	BOYS DRYER	32	20/1	1.50	1.00	1.50	GIRLS DRYER	
	33	20/1	0.72	1.00	0.72	ROOM 200 COMPUTERS	34	20/1	1.20	1.00	1.20	POP MACHINE	
	35	20/1	0.72	1.00	0.72	ROOM 200 COMPUTERS	36	20/1				**SPARE**	*
	37	20/1	0.40	1.00	0.40	EXISTING (ON)	38	20/1	0.36	1.00	0.36	LIBRARY COMPUTER	
	39	20/1	1.00	1.00	1.00	EXISTING (ON)	40	20/1	0.36	1.00	0.36	LIBRARY COMPUTER	
	41	20/1	0.72	1.00	0.72	LOUNGE OUTLETS	42	20/1	0.36	1.00	0.36	LIBRARY COMPUTER	

LOAD INCLUDES PANELS A1 AND C

1 TRANSFER CIRCUIT FROM A-9 TO A-10 TO FREE UP SPACE FOR A NEW 3 POLE BREAKER.

Panel ID	A1 (NEW)				Panel Load	Conn. kW		Demand kW	Demand Amps
					Total	12.46		12.46	34.6
Ampere	100		Voltage	120/208V					
MLO/MB	MLO		Phase	3	Phase A	3.78		3.78	31.5
Amp AIC	Verify w/ Utility		Wire	4	Phase B	4.98		4.98	41.5
					Phase C	3.70		3.70	30.8

	CB #	Brkr	Conn. kW	Factor	Demand kW	Description	CB #	Brkr	Conn. kW	Factor	Demand kW	Description	
	1	20/1	1.44	1.00	1.44	COPIER WORK ROOM 118	2	20/1	0.18	1.00	0.18	REC. BREAK ROOM 116	
	3	20/1	1.08	1.00	1.08	SHREDDER WORK ROOM 118	4	20/1	1.20	1.00	1.20	MICROWAVE BREAK ROOM 116	
	5	20/1	0.72	1.00	0.72	REC. WORK ROOM 118	6	20/1	1.00	1.00	1.00	REFRIGERATOR BREAK ROOM	G
	7	20/1	0.18	1.00	0.18	RACK IT CLOSET 112	8	20/1	0.90	1.00	0.90	REC. BREAK RM, MECH RM	
	9	20/1	0.72	1.00	0.72	REC. OFFICE 109	10	20/1	0.90	1.00	0.90	REC. CONFERENCE ROOM 107	
	11	20/1	1.08	1.00	1.08	REC. OFFICE 103	12	20/1	0.90	1.00	0.90	REC. CONFERENCE ROOM 107	
	13	20/1	1.08	1.00	1.08	REC. OFFICE 104	14	-				SPACE	
	15	20/1	1.08	1.00	1.08	REC. CORRIDOR 114	16	-				SPACE	
	17	20/1				SPARE	18	-				SPACE	

PANEL IS FED FROM A 60 AMP BREAKER IN PANEL A

FEEDER SCHEDULE

DESIGNATION	WIRE AND CONDUIT SIZE
60-4C	(4) #4 AWG CU & (1) #10 AWG CU GROUND IN 1.25" CONDUIT

PANELBOARD LEGEND

SYMBOL	DESCRIPTION
G	PROVIDE GROUND FAULT (GFCI) CIRCUIT BREAKER
LO	PROVIDE CIRCUIT BREAKER LOCK
N	PROVIDE NEW CIRCUIT BREAKER MATCHING EXISTING AIC AND BREAKER TYPE
*	CIRCUIT MADE SPARE THROUGH DEMOLITION
#	PROVIDE NEW CIRCUIT FROM EXISTING CIRCUIT BREAKER

BRANCH CIRCUIT CONDUCTOR SCHEDULE

SYMBOL	DESCRIPTION
20/1	(2) #12 AWG CU & (1) #12 AWG CU GND. IN 0.75" CONDUIT
20/2	(2) #12 AWG CU & (1) #12 AWG CU GND. IN 0.75" CONDUIT
20/3	(3) #12 AWG CU & (1) #12 AWG CU GND. IN 0.75" CONDUIT
30/1	(2) #10 AWG CU & (1) #10 AWG CU GND. IN 0.75" CONDUIT
30/2	(2) #10 AWG CU & (1) #10 AWG CU GND. IN 0.75" CONDUIT
30/3	(3) #10 AWG CU & (1) #10 AWG CU GND. IN 0.75" CONDUIT
40/2	(2) #8 AWG CU & (1) #10 AWG CU GND. IN 0.75" CONDUIT
50/1	(2) #6 AWG CU & (1) #10 AWG CU GND. IN 1.00" CONDUIT
50/2	(2) #6 AWG CU & (1) #10 AWG CU GND. IN 1.00" CONDUIT
50/3	(3) #6 AWG CU & (1) #10 AWG CU GND. IN 1.00" CONDUIT

issued

PERMIT DRAWINGS

revised

STATE OF OHIO
DANIEL T. GARMAN
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23 Jan 2026
REGISTERED
PROFESSIONAL ENGINEER

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office renovation for:
valley view board of education
6027 farmersville pike
germantown, ohio 45327

electrical panel schedules and single-line diagram

project number
251431
date
1/23/2026
drawn by
EGM
checked by
SLC

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