PROJECT NUMBER OSU-250050

MARION - MORRILL HALL FIRE PANEL / ELEVATOR UPGRADES

1465 MT VERNON AVE
MARION, OH 43302

PREPARED FOR

THE OHIO STATE UNIVERSITY

FACILITIES OPERATIONS AND DEVELOPMENT

FACILITIES DESIGN AND CONSTRUCTION

COLUMBUS, OHIO

PREPARED BY

STATE OF OHIO
TYLER J. BROZOVICH
ARC.2018034
REGISTERED ARCHITECT
EXPIRATION: 12/31/2026

PROJECT PHASE
BID / PERMIT DRAWINGS
ISSUE DATE
7/17/2026

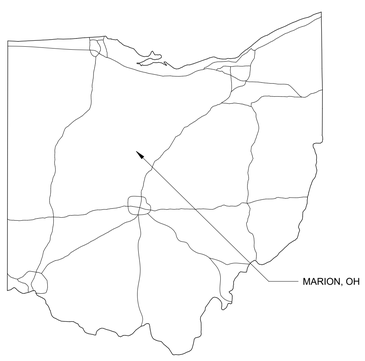
PROJECT NAME
MARION - MORRILL HALL FIRE PANEL / ELEVATOR UPGRADES

PRIMARY A/E
WELLOGY

PROJECT NUMBER
OSU-250050

FD&C PM
ALEXANDRA RADABAUGH

VICINITY MAP



PROJECT ARCHITECTS

WELLOGY

6767 LONGSHORE STREET, SUITE 540
DUBLIN, OH 43017
T: 614.785.0505

ELEVATOR CONSULTANT

LERCH BATES, INC.

4995 BRADENTON AVENUE, SUITE 200
DUBLIN, OH 43017
T: 614.648.8961

MEP ENGINEERING

KORDA/NEMETH ENGINEERS

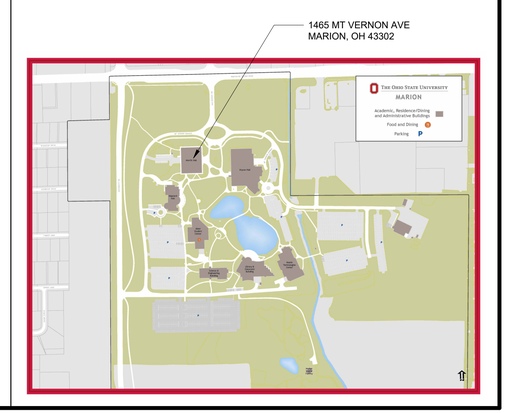
1650 WATERMARK DRIVE, SUITE 200
COLUMBUS, OH 43215
T: 614.487.1650

HAZMAT CONSULTANT

LAWHON & ASSOCIATES

1441 KING AVENUE
COLUMBUS, OH 43212
T: 614.481.8600

LOCATION MAP



ABBREVIATIONS

A	
AB	AIR BARRIER
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AL	ALUMINUM
ALT	ALTERNATE
ARCH	ARCHITECTURAL
AV	AUDIO VISUAL
AVB	AIR/ VAPOR BARRIER
AVG	AVERAGE
B	
BD	BOARD
BLDG	BUILDING
BLK	BLOCKING
BM	BENCH MARK
BO	BOTTOM OF
C	
C/C	CENTER TO CENTER
CB	CATCH BASIN
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CONTR	CONTRACTOR
CTR	CENTER
CW	CASEWORK
D	
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DN	DOWN
DS	DOWNSPOUT
DWG	DRAWING
E	
EA	EACH
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION
EPS	EXPANDED POLYSTYRENE INSULATION BOARD
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
F	
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FIN	FINISH(ED)
FL	FLOOR LINE
FLR	FLOOR(ING)
FP	FIREPROOF(ING)
FRT	FIRE RETARDANT TREATED
FURR	FURRING
G	
GA	GAUGE/GAGE
GALV	GALVANIZED
GL	GLASS
GLAM	GLUE LAMINATED
GPS	GRAPHITE POLYSTYRENE BOARD INSULATION
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
H	
HB	HOSE BIBB
HDR	HEADER
HM	HOLLOW METAL
HVAC	HEATING / VENTILATION / AIR CONDITIONING
I	
ID	INSIDE DIAMETER
IN	INCH(ES)
INSUL	INSULATION
INT	INTERIOR
ISO	POLYISOCYANURATE FOAM INSULATION
J	
JT	JOINT
L	
LAM	LAMINATE/ LAMINATED
LAV	LAVATORY
LB	POUND
LF	LINEAR FOOT
LIN	LINEAR
LT	LIGHT
M	
MAS	MASONRY
MAX	MAXIMUM
MCM	METAL COMPOSITE MATERIAL
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL
N	
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O	
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR-INSTALLED
OFOI	OWNER FURNISHED, OWNER-INSTALLED
OFVI	OWNER FURNISHED, VENDOR INSTALLED
OH	OVERHEAD
OPP	OPPOSITE
P	
PB	PUSH BUTTON
PC	PRECAST
PL	PLATE
PLYWD	PLYWOOD
PNL	PANEL
PP	PUSH PLATE
R	
RCPT	RECEPTACLE
RD	ROOF DRAIN
REF	REFER(ENCE)
REFR	REFIGERATOR
REV	REVISION
RO	ROUGH OPENING
S	
SCHED	SCHEDULE(D)
SF	SQUARE FOOT
SIM	SIMILAR
SPEC	SPECIFICATION
SS	STAINLESS STEEL
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
T	
T&G	TONGUE AND GROOVE
TB	TOWEL BAR
TFCI	TENANT FURNISHED, CONTRACTOR- INSTALLED
TFTI	TENANT FURNISHED, TENANT-INSTALLED
TG	TEMPERED GLASS
TO	TOP OF
TYP	TYPICAL
U	
UNO	UNLESS NOTED OTHERWISE
V	
VR	VAPOR RETARDER
W	
W/	WITH
W/O	WITHOUT
WB	WALL BOARD
WC	WALL COVERING
WCL	WATER CLOSET
WD	WOOD
WRB	WEATHER RESISTANT BARRIER
WWM	WELDED WIRE MESH
WWR	WELDED WIRE REINFORCEMENT
X	
XPS	EXTRUDED POLYSTYRENE INSULATION BOARD
Y	
YD	YARD DRAIN

SYMBOLS LEGEND

XXX / XXX	ROOM NAME & NUMBER
101	DOOR NO.
0 A3A	INTERIOR PARTITION TYPE
X / AX.X	SECTION OR ELEVATION REFERENCED TO DRAWINGS
X / AX.X	DETAIL REFERENCED TO DRAWINGS. EXAMPLE: DETAIL 1 ON DWG A5.6
	WORK POINT OR FLOOR ELEVATION
1	CODED NOTES (SYMBOL WITH NUMBER)
X	WINDOW MARKER (SYMBOL WITH LETTER)
X	REVISIONS (ISSUE)
X	COLUMN LINE
X / AX.X	INTERIOR ELEVATION MARKER
X / AX.X	BUILDING ELEVATION MARKER

MATERIALS LEGEND

PLYWOOD	BRICK
RIGID INSULATION.	GRANITE OR MARBLE
INSULATION-BATT OR BLANKET	STEEL
EARTH (FILL)	WOOD FRAMING OR BLOCKING
EARTH (UNDISTURBED)	FINISHED WOOD
GRANULAR FILL	GYPSUM BOARD
POURED CONCRETE	CONC. MASONRY UNITS

GENERAL NOTES

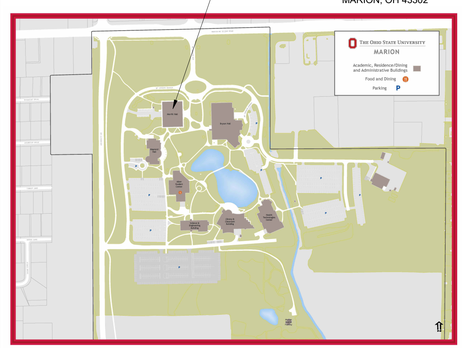
1. REFER TO THIS SHEET FOR THE MATERIAL AND SYMBOLS INDICATION KEY.
2. ALL WORK SHALL PERFORMED IN STRICT COMPLIANCE WITH ALL GOVERNING CODES AND STANDARDS.
3. IN THE EVENT THAT A CONFLICT OR AMBIGUITY EXISTS WITHIN THE CONTRACT DOCUMENTS, INCLUDING BETWEEN TRADES AND BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR SHALL (1) INCLUDE THE HIGHEST QUALITY AND LARGEST QUANTITY IN THEIR BID AND (2) CONSULT THE ARCHITECT FOR CLARIFICATION PRIOR TO BEGINNING THEIR WORK.
4. COORDINATE ALL WORK BETWEEN ALL TRADES PRIOR TO PROCEEDING WITH WORK.
5. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK. ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND DRAWINGS SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH ANY WORK.
6. **DO NOT SCALE DRAWINGS**. IF DIMENSIONS CAN NOT BE OBTAINED BASED ON THE DRAWING INFORMATION, CONSULT THE ARCHITECT FOR CLARIFICATION.
7. INTERIOR DIMENSIONS ON FLOOR PLANS ARE TO FACE OF WALLBOARD OR MASONRY, UNLESS NOTED OTHERWISE. EXTERIOR DIMENSIONS ARE TO FACE OF EXTERIOR SHEATHING OR MASONRY, UNLESS NOTED OTHERWISE.
8. ALL DIMENSIONS SHOWN ON PLANS FOR MASONRY OR CONCRETE WALLS ARE TO THE FACE OF MASONRY OR THE FACE OF CONCRETE, UNLESS NOTED OTHERWISE.
9. SEPARATE ALL DISSIMILAR MATERIALS AS REQUIRED TO PREVENT CORROSION AS RECOMMENDED BY THE RESPECTIVE PRODUCT MANUFACTURER.
10. MASONRY OPENINGS ON FLOOR PLANS AND PLAN DETAILS ARE NOMINAL.
11. ALL INTERIOR MASONRY LEFT EXPOSED SHALL HAVE BULL NOSED OUTSIDE CORNERS, UNLESS OTHERWISE NOTED.
12. REFER TO PLUMBING, FIRE PROTECTION, HVAC AND ELECTRICAL DOCUMENTS FOR INFORMATION PERTAINING TO THOSE RESPECTIVE TRADES. FIELD VERIFY AND COORDINATE PLACEMENT OF ALL RESPECTIVE MEP FIXTURES, AND REPORT ANY AND ALL DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
13. REFER TO PLUMBING, FIRE PROTECTION, HVAC AND ELECTRICAL DOCUMENTS FOR LOCATION AND NUMBER OF ALL REQUIRED WALL AND/OR CEILING ACCESS PANELS. CLARIFY WITH THE ARCHITECT THE EXACT LOCATION OF ALL ACCESS PANELS INDICATED ON THE PLUMBING, FIRE PROTECTION, HVAC AND ELECTRICAL DOCUMENTS, BUT NOT SHOWN ON THE ARCHITECTURAL DOCUMENTS.
14. ANY UTILITY OUTTAGES MUST BE COORDINATED WITH THE UNIVERSITY 4 WEEKS IN ADVANCE WHERE POSSIBLE WITH A MINIMUM OF 2 WEEKS NOTICE GIVEN TO FACILITIES OPERATIONS AND DEVELOPMENT AND BUILDING OCCUPANTS. WORK WITH ARCHITECT AND UNIVERSITY PM FOR COORDINATION

DRAWING INDEX

SHEET NUMBER	SHEET NAME
G000	COVER SHEET
G001	INDEX/GENERAL INFORMATION
G100	SITE LOGISTICS PLAN
G101	MATERIAL ROUTING PLAN
G102	OVERALL FLOOR PLANS
G201	PARTITION DETAILS, SCHEDULE, & RATING REQS
G202	UL REFERENCE DETAILS
G203	UL REFERENCE DETAILS
G204	UL REFERENCE DETAILS
HM011	HAZARDOUS MATERIALS ABATEMENT PLAN
A011	DEMOLITION PLANS
A101	NEW WORK PLANS
A701	INTERIOR ELEVATIONS
A901	DOOR & FRAME & MATERIAL SCHEDULES
H001	HVAC SHEET INDEX
H201	HVAC PLANS
E000	ELECTRICAL SYMBOLS AND LEGENDS
E101	DEMOLITION PLAN - LEVEL 1
E102	DEMOLITION PLAN - LEVEL 2
E103	DEMOLITION PLAN - LEVEL 3
E103A	DEMOLITION PLAN - LEVEL 3 ALTERNATE
E201	NEW WORK PLAN - LEVEL 1
E202	NEW WORK PLAN - LEVEL 2
E203	NEW WORK PLAN - LEVEL 3
E203A	NEW WORK PLAN - LEVEL 3 ALTERNATE
E501	ELECTRICAL SCHEDULES
E701	ELECTRICAL DETAILS
E702	ELECTRICAL DETAILS
E703	ELECTRICAL DETAILS

LOCATION MAP

1465 MT VERNON AVE
MARION, OH 43302



REVISIONS

NO.	DATE	DESCRIPTION

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EXPIRATION: 12/31/2026

PREPARED BY: *tel* 614 785.0505
wellogy designing for life
6767 Longshore Street, Suite 540 · Dublin, OH 43017
www.wellogydesign.com

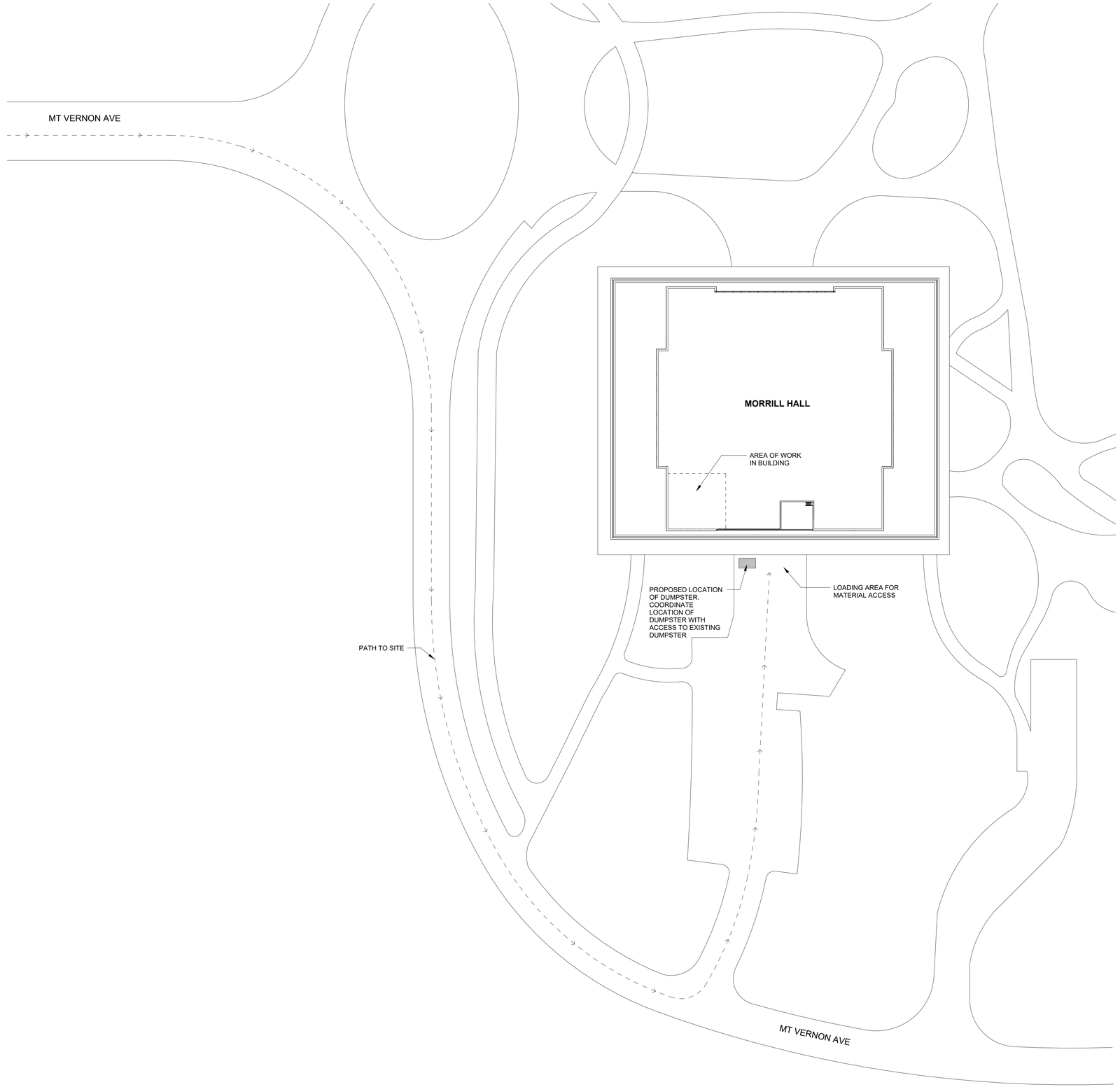
WELLOGY PROJ.NO.: 25022

PHASE:
BID / PERMIT DRAWINGS

SHEET TITLE:
INDEX/GENERAL INFORMATION

SHEET NO.:
G001

ARCHIVED DRAWING NUMBER	DRAWN BY WELLOGY	DATE 7/17/2026	OF



A SITE LOGISTICS PLAN

0 30' - 0" 60' - 0" 90' - 0"

N

MATERIAL ROUTING NOTES

MORRILL HALL CONTACT: CHAD KELTNER
OFFICE: (740)725-6155
CELL: (567)231-7243

1. CONTRACTORS TO COORDINATE MOBILIZATION TIMES WITH THE UNIVERSITY. ANY CONSTRUCTION WORK THAT IS TO BE PERFORMED OUTSIDE THE MACHINE ROOM AND MECHANICAL ROOM AREAS SHALL BE DONE DURING SCHEDULED WORKING HOURS. CLEAN-UP IN THESE AREAS IS REQUIRED CONSTANT THROUGHOUT THE DAY. WORK WHICH WILL CREATE CONSIDERABLE NOISE IS TO BE CONDUCTED FROM 6:00AM TO 9:00 AM. COORDINATE SCHEDULING AND NOISE LEVELS WITH MORRILL HALL STAFF.

2. ACCESS TO THE LEVEL 1 ELEVATOR MACHINE ROOM (130M) IS FROM THE FIRST FLOOR VIA CORRIDOR X107C. IF MATERIALS ARE TO BE MOVED TO HIGHER FLOORS THEY WILL BE SCHEDULED TO MOVE VIA STAIR X140S. ELEVATOR X125E IS THE ONLY ELEVATOR IN THE BUILDING.

3. THE ENTIRE BUILDING, INCLUDING ALL RELATED ELEVATOR LOBBIES WILL REMAIN OPERATIONAL DURING CONSTRUCTION. ANY WORK REQUIRED IN THESE AREAS (IN WALL OR ABOVE CEILING) WILL BE REQUIRED TO BE COMPLETED DURING ESTABLISHED WORK SCHEDULE AND COORDINATED WITH OSU PRIOR TO START OF WORK. ALL WORK MUST BE COORDINATED 2 WEEKS IN ADVANCE WITH THE UNIVERSITY.

4. COORDINATE CONSTRUCTION DUMPSTER LOCATION WITH MORRILL HALL CONTACT. ALL CONSTRUCTION DEBRIS WILL BE REQUIRED TO BE REMOVED BY CONTRACTOR ON A DAILY BASIS. ALL DEBRIS MUST BE REMOVED IN A COVERED CART. CARTS AND ALL CART WHEELS MUST BE WIPED DOWN BEFORE PROCEEDING THROUGH OCCUPIED AREAS. AFTER HOURS REMOVAL MAY BE REQUIRED.

5. CONTRACTORS WILL BE PERMITTED TO UTILIZE THE MORRILL HALL LOADING AREA FOR DELIVERIES. ALL DELIVERIES MUST BE COORDINATED WITH OSU CM AND LOADING AREA MANAGEMENT. LOADING AREA HOURS OF OPERATION: PER UNIVERSITY. ALL DELIVERIES ARE CONSIDERED A SCHEDULED EVENT REQUIRING A CONTRACTOR TO RECEIVE ITEMS. SEE MATERIAL ROUTING PLAN.

6. OVERSIZED EQUIPMENT WILL BE DELIVERED TO THE LOADING AREA AND WHEELED TO THE FIRST FLOOR ELEVATOR AND MACHINE ROOM, VERIFY ELEVATOR CAPACITY. ALL DELIVERIES MUST BE COORDINATED WITH OSU CM AND PARKING. ALL DELIVERIES ARE CONSIDERED A SCHEDULED EVENT REQUIRING A CONTRACTOR TO RECEIVE ITEMS. PROVIDE PLYWOOD FLOORING PROTECTION IF WHEELING HEAVY DELIVERIES ACROSS FINISHED FLOORS. SEE MATERIAL ROUTING PLAN ON G101.

7. CONTRACTOR TO COORDINATE LOCATIONS WHERE ABOVE CEILING ACCESS AND/OR ALL ACCESS IS REQUIRED. THIS WORK WITH WRITTEN REQUEST THROUGH ARCHITECT AND OSU PROJECT MANAGER AND START OF CONSTRUCTION 2 WEEKS AFTER APPROVAL. SHOWING ON ACTIVITY SCHEDULE IS NOT CONSIDERED FORMAL NOTIFICATION.

8. WALK-OFF MATS ARE REQUIRED IN THE WORK AREA. STICKY MAT MUST BE CHANGED ON A REGULAR BASIS TO MAINTAIN A TACTILE SURFACE.

9. AT AREAS OF WORK, THE CONTRACTOR IS TO PROVIDE TEMPORARY BARRIERS AT EACH AREA OF WORK. MAINTAIN CLEARANCES FOR ADA, AND UNIVERSITY EQUIPMENT. COORDINATE FINAL CONFIGURATIONS WITH UNIVERSITY.

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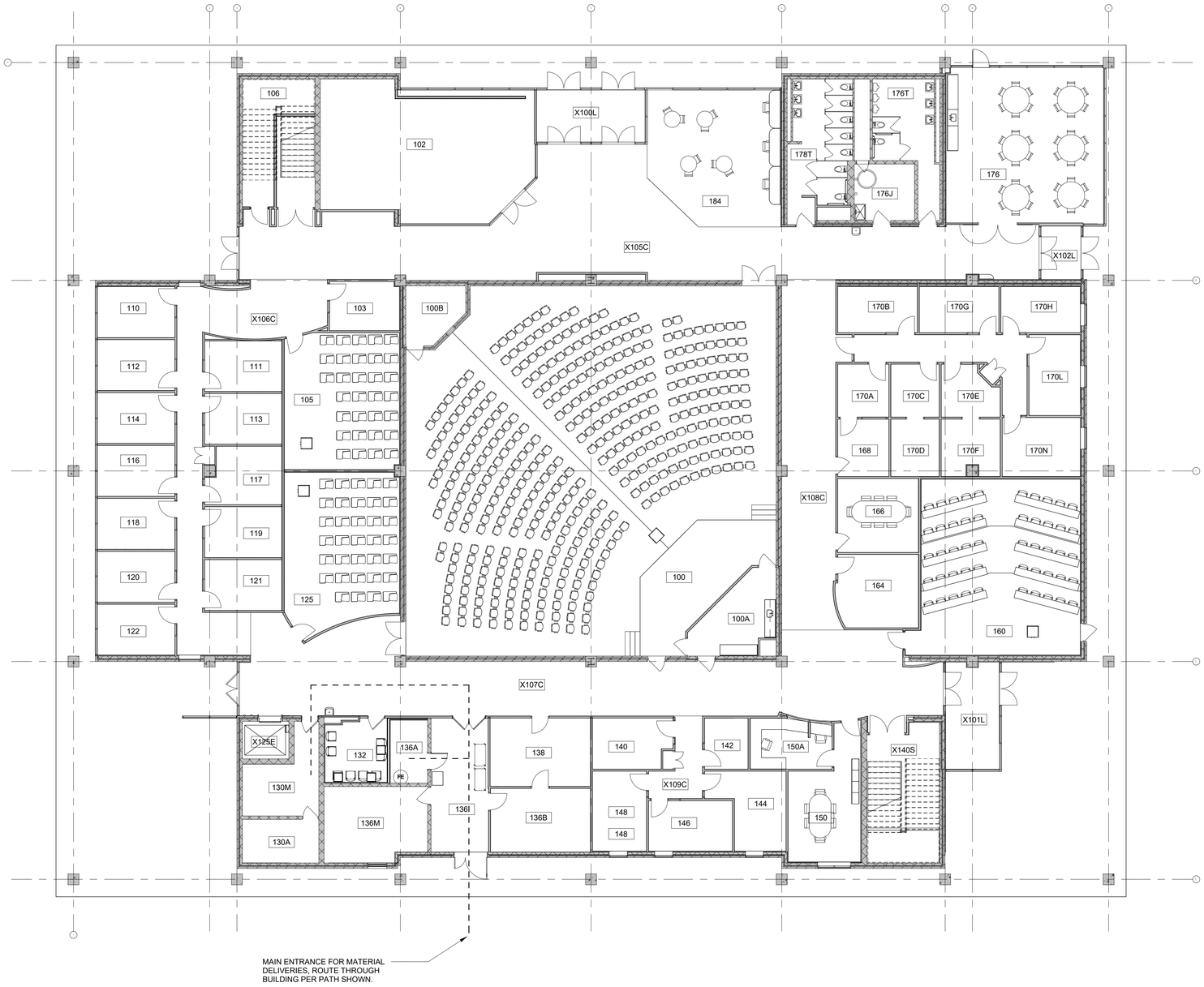
WELLOGY PROJ.NO.: 25022

PHASE:
BID / PERMIT DRAWINGS

SHEET TITLE:
SITE LOGISTICS PLAN

SHEET NO.:
G100

ARCHIVED DRAWING NUMBER	DRAWN BY WELLOGY	DATE 7/17/2026	OF



A MATERIAL ROUTING PLAN - LEVEL 01

0 8' - 0" 16' - 0" 24' - 0"

MATERIAL ROUTING NOTES

MORRILL HALL CONTACT: CHAD KELTNER
OFFICE: (740)725-6155
CELL: (567)231-7243

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5. CONTRACTORS WILL BE PERMITTED TO UTILIZE THE MORRILL HALL LOADING AREA FOR DELIVERIES. ALL DELIVERIES MUST BE COORDINATED WITH OSU CM AND LOADING AREA MANAGEMENT. LOADING AREA HOURS OF OPERATION: PER UNIVERSITY. ALL DELIVERIES ARE CONSIDERED A SCHEDULED EVENT REQUIRING A CONTRACTOR TO RECEIVE ITEMS. SEE MATERIAL ROUTING PLAN.

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MATERIAL ROUTING PLAN

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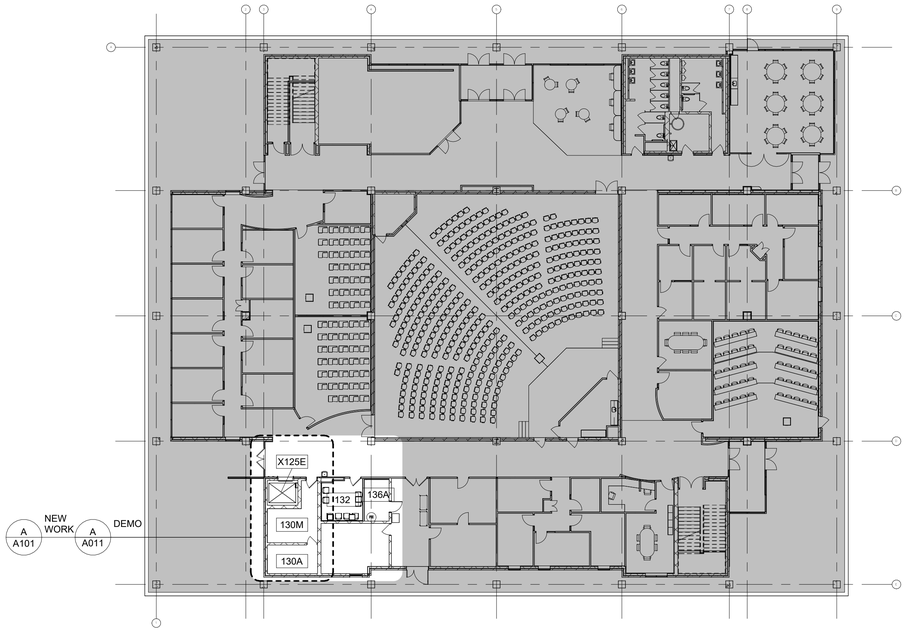
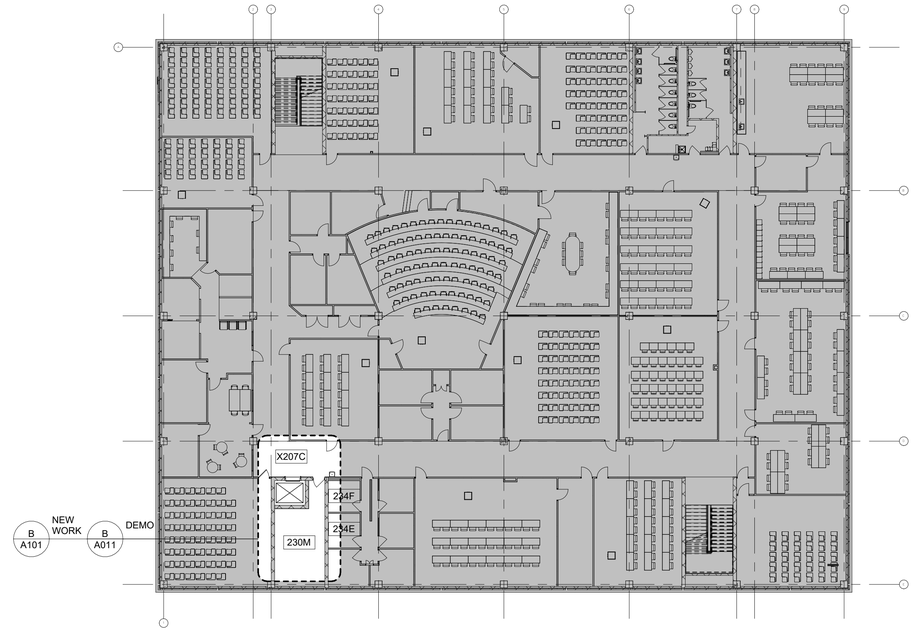


A OVERALL FLOOR PLAN - LEVEL 01

0 20' - 0" 40' - 0" 60' - 0"



B OVERALL FLOOR PLAN - LEVEL 02

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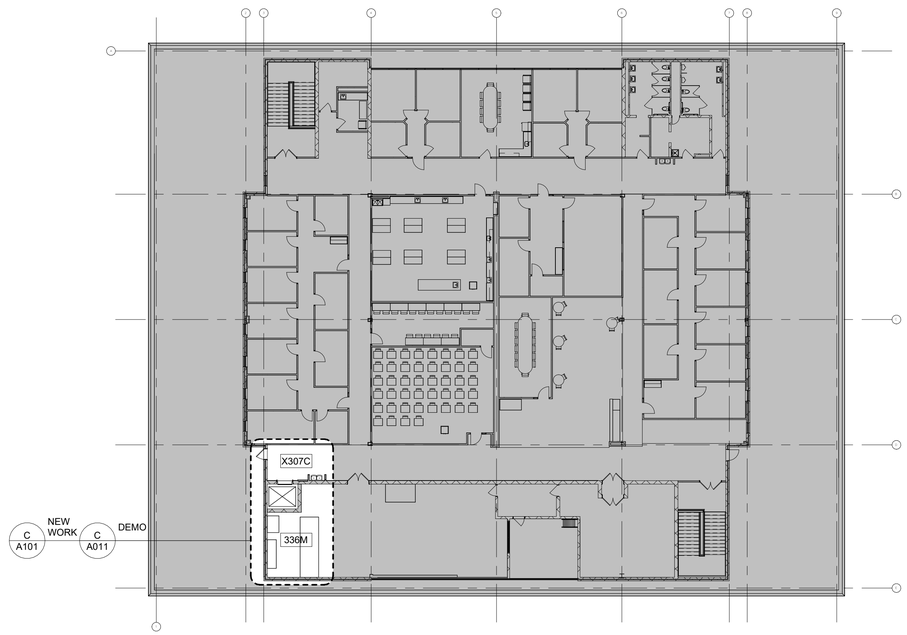

C OVERALL FLOOR PLAN - LEVEL 03

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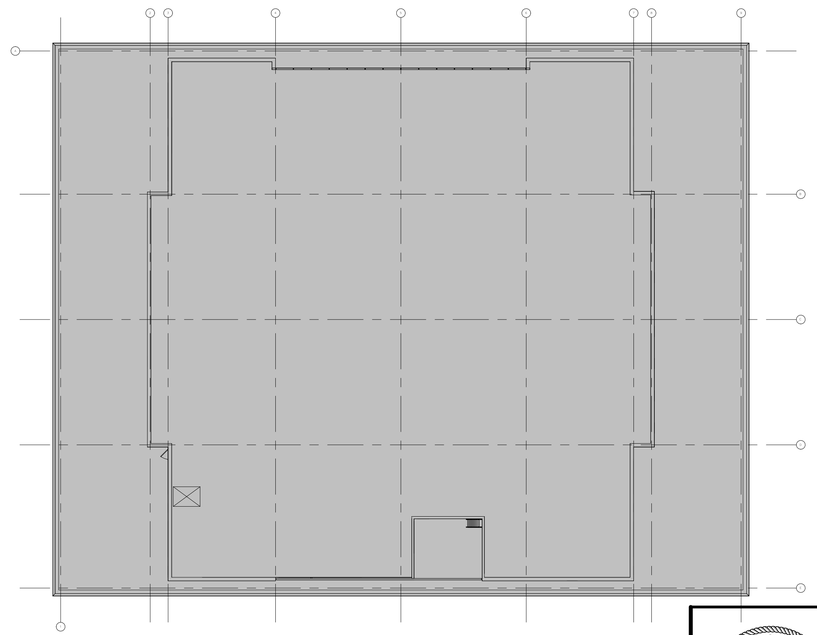


D OVERALL FLOOR PLAN - ROOF

0 20' - 0" 40' - 0" 60' - 0"

CODE INFORMATION

BUILDING DEPARTMENT JURISDICTION:
OHIO DIVISION OF INDUSTRIAL COMPLIANCE
6606 TUSSING ROAD
REYNOLDSBURG, OH 43068
PHONE: 614.644.2622
FAX: 614.644.3145

APPLICABLE BUILDING CODES:
2024 OHIO BUILDING CODE, INCLUDING CURRENT UPDATES
2024 OHIO MECHANICAL CODE, INCLUDING 2021 UPDATES
2024 OHIO PLUMBING CODE, INCLUDING 2021 UPDATES
2024 OHIO FIRE CODE
2022 NFPA 72: NATIONAL ELECTRICAL CODE
2020 OHIO EXISTING ELEVATOR AND ESCALATOR CODE

PROJECT DESCRIPTION:

BUILDING ADDRESS:
1465 MT VERNON AVE
MARION, OH 43302

USE GROUP:	GROUP B - NO CHANGE
TYPE OF CONSTRUCTION:	ASSUMED II-B EXISTING, NO ANTICIPATED CHANGE
AUTOMATIC SPRINKLER SYSTEM:	NO - NO CHANGE
FIRE ALARM SYSTEM:	YES
GENERAL BUILDING INFORMATION (TABLE 503):	
ALLOWABLE HEIGHT:	EXISTING N/C
ALLOWABLE AREA:	EXISTING N/C
BUILDING HEIGHT:	EXISTING N/C
BUILDING AREA:	EXISTING N/C
BUILDING FOOTPRINT:	EXISTING N/C
AREA OF WORK:	800 SF
FIRE RESISTANCE RATINGS (TABLE 601):	EXISTING N/C
SPRINKLER SYSTEM (EXISTING):	
FULL AUTOMATIC SPRINKLER SYSTEM:	NO
SMOKE CONTROL SYSTEM:	NO
FIRE ALARM SYSTEM (EXISTING):	
MANUAL FIRE ALARM SYSTEM:	YES
AUTO FIRE ALARM SYSTEM:	YES

REVISIONS

NO.	DATE	DESCRIPTION

OSU PROJECT NUMBER *OSU-250050*

MARION - MORRILL HALL FIRE PANEL / ELEVATOR UPGRADES

PREPARED FOR
THE OHIO STATE UNIVERSITY
FACILITIES OPERATIONS AND DEVELOPMENT
COLUMBUS, OHIO

STATE OF OHIO
TYLER J. BROZOVICH
ARC.2018034
REGISTERED ARCHITECT
EXPIRATION: 12/31/2026

PREPARED BY: *tel* 614 785.0505

wellogy
designing for life
6767 Longshore Street, Suite 540 · Dublin, OH 43017
www.wellogydesign.com

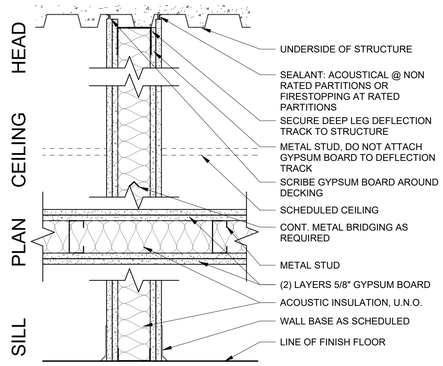
WELLOGY PROJ.NO.: 25022

PHASE:
BID / PERMIT DRAWINGS

SHEET TITLE:
OVERALL FLOOR PLANS

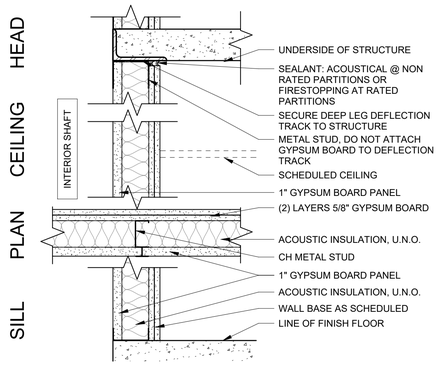
SHEET NO.:
G102

ARCHIVED DRAWING NUMBER	DRAWN BY WELLOGY	DATE 7/17/2026	OF



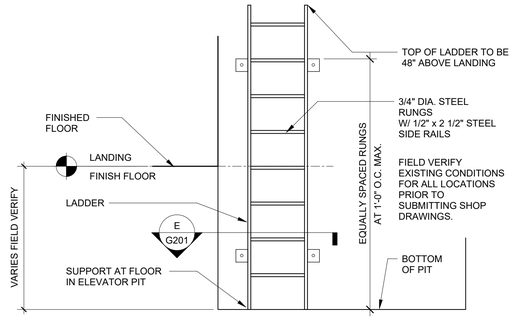
A PARTITION - SERIES E

0 0' - 6" 1' - 0" 1' - 6"



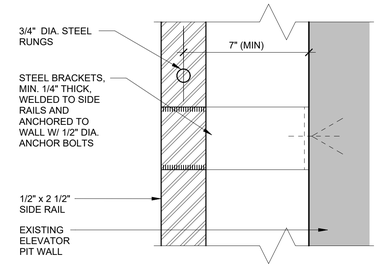
B PARTITION - SERIES J

0 0' - 6" 1' - 0" 1' - 6"



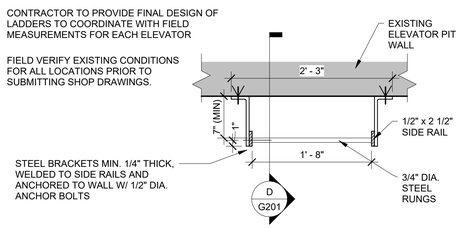
C ELEVATOR PIT LADDER ELEVATION

0 2' - 0" 4' - 0" 6' - 0"



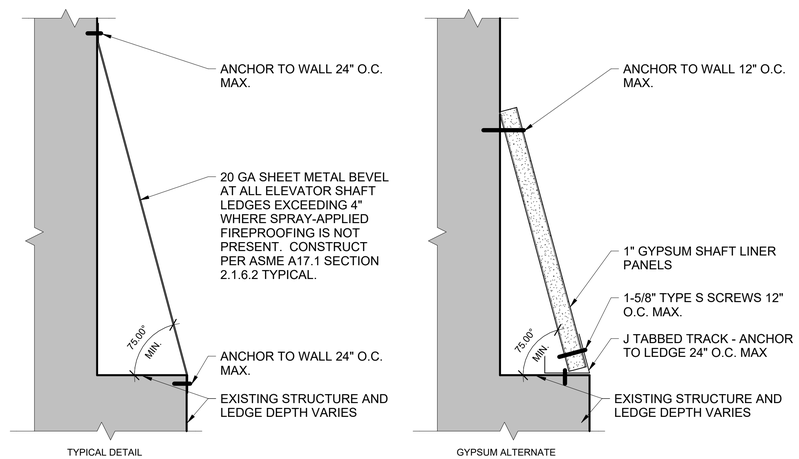
D PIT LADDER DETAIL

0 0' - 4" 0' - 8" 1' - 0"



E PIT LADDER DETAIL

0 1' - 0" 2' - 0" 3' - 0"



F SECTION - SHAFT LEDGE BEVEL

0 0' - 4" 0' - 8" 1' - 0"

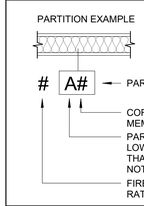
MOUNTING HEIGHTS NOTES

1. CONTRACTORS TO VERIFY THAT ALL ACCESSORIES ARE MOUNTED AT ADA COMPLIANT HEIGHT AND PER MANUFACTURER'S RECOMMENDATIONS. CONSULT THE ARCHITECT FOR ANY CLARIFICATION NEEDED.
2. GENERAL CONTRACTOR TO PROVIDE FIRE TREATED WOOD BLOCKING FOR ALL ACCESSORIES PER MANUFACTURER'S RECOMMENDATIONS.
3. SIMILAR ACCESSORIES ARE TO BE MOUNTED AT CONSISTANT HEIGHTS THROUGHOUT THE ENTIRE PROJECT.
4. WHERE ACCESSORIES ARE ADJACENT TO ONE ANOTHER, MOUNT SO THAT TOP OF ACCESSORIES ALIGN WHERE POSSIBLE.

TYPICAL PARTITION NOTES

1. COMPLY WITH SPECIFICATIONS AND MANUFACTURER'S LIMITING HEIGHT/SPAN/LOAD TABLES FOR METAL STUD SIZES AND GAUGES, STUDS TO BE MINIMUM 20 GAUGE (OR EQUIVALENT), UNLESS NOTED OTHERWISE.
2. ALL GYPSUM BOARD TO BE 5/8" THICKNESS, UNLESS OTHERWISE NOTED. ALL RATED PARTITIONS TO BE 5/8" TYPE-X GYPSUM BOARD.
3. WALL AND CEILING ON-CENTER SPACING OF METAL STUDS SHALL NOT EXCEED 24", UNLESS NOTED OTHERWISE.
4. WALL ON-CENTER SPACING OF WOOD STUDS SHALL NOT EXCEED 16", UNLESS NOTED OTHERWISE.
5. CONFIRM PARTITION RATINGS AND OPENING PROTECTIONS WITH LIFE SAFETY PLANS. WHERE ANY FIRE-RATED WALL PARTITION INTERSECTS WITH NON-RATED OR LOWER RATED PARTITIONS THE HIGHEST RATED PARTITION SHALL BE MAINTAINED AND CONTINUE THROUGH THE INTERSECTION.
6. PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL CONTAIN CONTINUOUS FIRESTOPPING.
7. PENETRATIONS THROUGH PARTITIONS WITH ACOUSTIC BATTS SHALL CONTAIN CONTINUOUS ACOUSTICAL SEALANT.
8. ALL FIRE RATED PARTITIONS SHALL EXTEND TO THE UNDERSIDE OF STRUCTURE, OR FIRE RATED HORIZONTAL ASSEMBLY, AS REQUIRED.
9. ALL PARTITIONS TO BE BUILT AS SHOWN OR DETAILED. UPON COORDINATION WITH DIFFERENT TRADE CONTRACTORS, AT NO COST TO THE OWNER, BUILD WALLS WITH THICKNESS NECESSARY TO ADEQUATELY COVER PIPING, CONDUITS, ETC. NOTIFY ARCHITECT WITH ANY SUCH NEED TO INCREASE THICKNESS PRIOR TO PROCEEDING.
10. ALL WOOD AND PLYWOOD BLOCKING SHALL BE FIRE RETARDANT TREATED (FRT), UNLESS NOTED OTHERWISE.
11. INSTALL CEMENT BOARD OF THE SAME THICKNESS AS ORIGINAL DESIGNATED GYPSUM BOARD AT ALL LOCATIONS WHERE WALL TILE IS SPECIFIED. REFER TO INTERIOR ELEVATIONS & FINISH SCHEDULE.
12. ALL FURRING MUST BE BRACED TO ADJACENT STRUCTURE.
13. CONTROL JOINTS IN GYPSUM BOARD PARTITIONS SHALL BE LOCATED WHERE:
    A. PARTITIONS OR FURRING ABUTS A STRUCTURAL ELEMENT, DISSIMILAR WALL OR CEILING.
    B. CEILING ABUTS A STRUCTURAL ELEMENT, DISSIMILAR WALL OR PARTITION OR OTHER VERTICAL PENETRATION.
    C. A PARTITION OR FURRING RUN THAT EXCEEDS 30'-0". IF THERE IS A DOOR OPENING IN THE 30'-0" RUN, LOCATE THE CONTROL JOINT AT BOTH SIDES OF THE JAMB FROM THE HEAD OF DOOR TO THE TOP OF THE PARTITION.

INTERIOR PARTITION KEY



FIRE RESISTANCE RATING

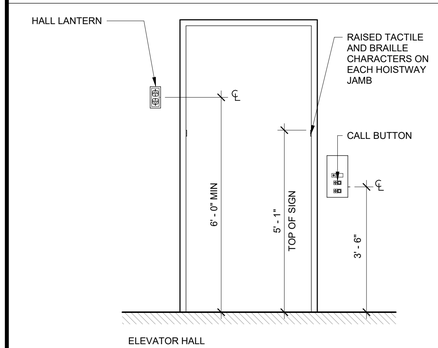
RATING	DESCRIPTION
	NO RATING
1	1 HOUR PARTITION
2	2 HOUR PARTITION
3	3 HOUR PARTITION
S	SMOKE PARTITION
1A	1 HOUR FIRE BARRIER
1B	1 HOUR BEARING WALL / SMOKE BARRIER
1S	1 HOUR SMOKE BARRIER
2A	2 HOUR FIRE BARRIER
2S	2 HOUR SMOKE BARRIER

CORE FRAMING MEMBER

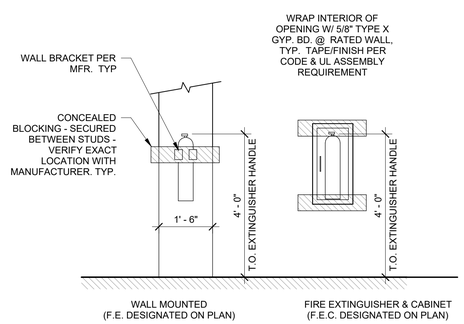
#	METAL	#	WOOD	#	MASONRY
0	NO CORE	0	NO CORE	0	NO CORE
1	7/8" METAL HAT CHANNEL	1	3/4" WOOD STUD	1	N/A
2	2 1/2" METAL STUD	2	1 1/2" WOOD STUD	2	N/A
3	3 5/8" METAL STUD	3	N/A	3	N/A
4	4" METAL STUD	4	3 1/2" WOOD STUD	4	4" CMU
6	6" METAL STUD	6	5 1/2" WOOD STUD	6	6" CMU
8	8" METAL STUD	8	7 1/4" WOOD STUD	8	8" CMU
9	2 1/2" CH METAL STUD	9	N/A	9	N/A
10	4" CH METAL STUD	10	9 1/4" WOOD STUD	10	10" CMU
12	N/A	12	11 1/4" WOOD STUD	12	12" CMU

PARTITION LEGEND

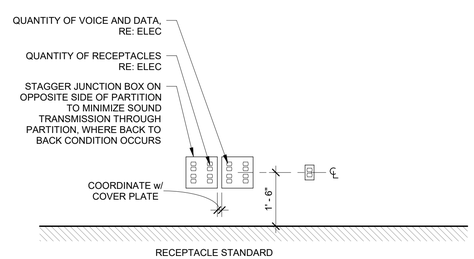
FIRE RATING						
ASSEMBLY	# HR OR S - SMOKE	TYPE	DETAIL	STC	WIDTH	COMMENTS
U419	2	E3	A/G201		6 1/8"	
U415	2	J9	B/G201		3 7/8"	



DEVICES & SIGNAGE



FIRE EXTINGUISHERS



ELECTRICAL

STATE OF OHIO
TYLER J. BROZOVICH
ARC.2018034
REGISTERED ARCHITECT
EXPIRATION: 12/31/2026

REVISIONS

NO.	DATE	DESCRIPTION

OSU PROJECT NUMBER *OSU-250050*

MARION - MORRILL HALL FIRE PANEL / ELEVATOR UPGRADES

PREPARED FOR
THE OHIO STATE UNIVERSITY
FACILITIES OPERATIONS AND DEVELOPMENT
COLUMBUS, OHIO

PREPARED BY: *tel* 614 785.0505
wellogy designing for life
6767 Longshore Street, Suite 540 · Dublin, OH 43017
www.wellogydesign.com

WELLOGY PROJ.NO.: 25022

PHASE: BID / PERMIT DRAWINGS

SHEET TITLE: PARTITION DETAILS, SCHEDULE, & RATING REQS

SHEET NO.: G201

ARCHIVED DRAWING NUMBER	DRAWN BY WELLOGY	DATE 7/17/2026	OF

UL U419

FIRE-RESISTANCE DESIGN

Assembly Usage Disclaimer

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances

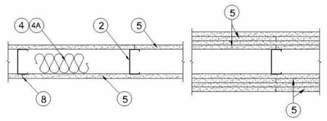
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances

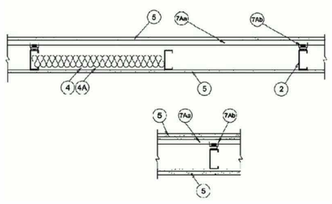
Design No. U419

September 28, 2018

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5K)

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





1. **Floor and Ceiling Runners —** (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™ Track

CRACO MFG INC — SmartTrack25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track

FUSION BUILDING PRODUCTS — Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper25™ Track

1B. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

FUSION BUILDING PRODUCTS — Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

1C. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — In lieu of Item 1 — Channel shaped, attached to floor and ceiling with fasteners 24 in. OC max.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

1D. **Floor and Ceiling Runners —** (Not Shown) — For use with Item 2A — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1E. **Framing Members* — Floor and Ceiling Runners —** (Not Shown, As an alternate to Item 1) — For use with Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.
CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1F. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
SUPER STUD BUILDING PRODUCTS — The Edge

1G. **Framing Members* — Floor and Ceiling Runner —** For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max.
STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. **Floor and Ceiling Runners —** (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.018 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100

FUSION BUILDING PRODUCTS — Viper20™ Track VT100

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

1I. **Framing Members* — Floor and Ceiling Runners —** (Not Shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.
TELLING INDUSTRIES L L C — TRUE-TRACK™

1J. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

TELLING INDUSTRIES L L C — Viper25™ Track

1K. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
TELLING INDUSTRIES L L C — Viper20™ Track

1L. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-1/2 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
STEEL INVESTMENT GROUP L L C — AlphaTRAK

1M. **Framing Members* — Floor and Ceiling Runners —** Not Shown — As an alternate to Item 1 — For use with Item 2O, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD — Rondo Wall Track

1N. **Framing Members* — Floor and Ceiling Runners —** Not Shown — As an alternate to Item 1 — For use with Item 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
OEG BUILDING MATERIALS — OEG Track

1O. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2Q, proprietary channel shaped runners, min width to accommodate stud size, fabricated from min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X Track

2. **Steel Studs —** Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. **Steel Studs —** (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J and 5K) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2B. **Framing Members* - Steel Studs —** (As an alternate to Item 2, For use with Items 5C, 5I or 5K) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™

CRACO MFG INC — SmartStud25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™

FUSION BUILDING PRODUCTS — Viper25™

IMPERIAL MANUFACTURING GROUP INC — Viper25™

2C. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

FUSION BUILDING PRODUCTS — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2D. **Framing Members* — Steel Studs —** In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

2E. **Framing Members* — Steel Studs —** (Not Shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or 5K only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2F. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.
SUPER STUD BUILDING PRODUCTS — The Edge

2G. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped studs, minimum width indicated under Item 5. Studs to be cut 3/8 to 3/4 in less than the assembly height.
STUDCO BUILDING SYSTEMS — CROCSTUD

2H. **Framing Members* — Steel Studs —** (Not Shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel,

spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
TELLING INDUSTRIES L L C — TRUE-STUD™

2I. **Framing Members* — Steel Studs —** (As an alternate to Item 2, For use with Items 5C or 5L or 5K) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.
TELLING INDUSTRIES L L C — Viper25™

2J. **Framing Members* — Metal Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights
TELLING INDUSTRIES L L C — Viper20™

2K. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
EB METAL INC — NITROSTUD

2L. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
OLMAR SUPPLY INC — PRIMESTUD

2M. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2N. **Framing Members*— Steel Studs —** As an alternate to Item 2 — proprietary channel shaped steel studs, min depth 3-1/2 in. and as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in length than assembly height.
STEEL INVESTMENT GROUP L L C — AlphaSTUD

2O. **Framing Members* — Steel Studs —** As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD — Rondo Lipped Wall Stud

2P. **Framing Members* — Steel Studs —** As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, min 25 MSG galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
OEG BUILDING MATERIALS — OEG Stud

2Q. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1O, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X

3. **Wood Structural Panel Sheathing —** (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.

4. **Batts and Blankets* —** (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5.

See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

4A. **Batts and Blankets* —** (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.

See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

4B. **Batts and Blankets* —** For use with Item 5K. Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to

Surface Burning Characteristics and/or Fire Resistance.

See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

4C. **Fiber, Sprayed* —** (Optional) and as an alternate to Batts and Blankets (Item 4B) where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See **Fiber, Sprayed** (CCAZ).
AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

5. **Gypsum Board* —** Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2, 2C, 2D, 2F, 2G, 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, **Steel Framing Members***, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. **Gypsum Board* —** (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.
CGC INC — Type SHX.

UNITED STATES GYPSUM CO — Type FRX-G, SHX.

USG MEXICO S A DE C V — Type SHX.

5B. **Gypsum Board* —** (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12).
RAY-BAR ENGINEERING CORP — Type RB-LBG

5C. **Gypsum Board* —** (For Use With Item 2B) — Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.
CGC INC — Type SCX.

UNITED STATES GYPSUM CO — Type SCX, SGX.

USG BORAL DRYWALL SFZ LLC — Type SCX

USG MEXICO S A DE C V — Type SCX

5D. **Gypsum Board* —** (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.
CGC INC — Type USGX

UNITED STATES GYPSUM CO — Type USGX

USG BORAL DRYWALL SFZ LLC — Type USGX

USG MEXICO S A DE C V — Type USGX

5E. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered

edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.
NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelco

5F. **Gypsum Board* —** (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.
UNITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX

USG BORAL DRYWALL SFZ LLC — 5/8 in. thick Type SCX, SGX

5G. **Gypsum Board* —** (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Item 2E	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR;, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

UL U419 CONTINUED ON NEXT PAGE

REVISIONS		
NO.	DATE	DESCRIPTION

OSU PROJECT NUMBER *OSU-250050*

MARION - MORRILL HALL FIRE PANEL / ELEVATOR UPGRADES

PREPARED FOR
THE OHIO STATE UNIVERSITY
FACILITIES OPERATIONS AND DEVELOPMENT
COLUMBUS, OHIO

STATE OF OHIO
TYLER J. BROZOVICH
ARC.2018034
REGISTERED ARCHITECT
EXPIRATION: 12/31/2026

PREPARED BY: *tel* 614 785.0505
wellogy
designing for life
6767 Longshore Street, Suite 540 · Dublin, OH 43017
www.wellogydesign.com

WELLOGY PROJ.NO.: 25022

PHASE:
BID / PERMIT DRAWINGS

SHEET TITLE:
UL REFERENCE DETAILS

SHEET NO.:
G202

ARCHIVED DRAWING NUMBER	DRAWN BY WELLOGY	DATE 7/17/2026	OF

UL U419 CONTINUED

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2, IPC-AR, ULIX; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

5H. **Gypsum Board*** — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table, Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A).
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

5I. **Gypsum Board*** — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.
CGC INC — Type ULX

UNITED STATES GYPSUM CO — Type ULX

USG MEXICO S A DE C V — Type ULX

5J. **Gypsum Board*** — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long

Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5K. **Gypsum Board*** — (Not Shown) — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) need not be staggered. The number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2 through 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4B)
1	3-5/8	1 layer, 5/8 in. thick	3-1/2 in.
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional

UNITED STATES GYPSUM CO — 5/8 in. thick Type ULIX

6. **Fasteners —** (Not Shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Two layer systems:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer.**Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in.

long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

7. **Furring Channels —** (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A.

7A. **Framing Members*** — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

7B. **Framing Members*** — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall

screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.
KINETICS NOISE CONTROL INC — Type Isomax

7C. **Framing Members*** — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
PLITEQ INC — Type GENIECLIP

7D. **Steel Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

7E. **Steel Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 7Eb. Ends of adjoining channels overlapped 6 in.

and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

7F. **Steel Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — Resilient channels and Steel Framing Members as described below:

a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 5. Not for use with Item 5A and 5E.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 7Fa) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

8. **Joint Tape and Compound —** Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

9. **Siding, Brick or Stucco —** (Optional, Not Shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

10. **Caulking and Sealants* —** (Optional, Not Shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.
UNITED STATES GYPSUM CO — Type AS

11. **Lead Batten Strips —** (Not Shown, For Use With Item 5B) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations. Required behind vertical joints.

11A. **Lead Batten Strips —** (Not Shown, For Use With Item 5H) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations.

12. **Lead Discs or Tabs —** (Not Shown, For Use With Item 5B) — Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

12A. **Lead Discs —** (Not Shown, for use with Item 5H) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

13. **Lead Batten Strips —** (Not Shown, For Use With Item 5E) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations.

14. **Lead Tabs —** (Not Shown, For Use With Item 5E) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

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

Last Updated on 2018-09-28

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REVISIONS

NO.	DATE	DESCRIPTION

OSU PROJECT NUMBER *OSU-250050*

MARION - MORRILL HALL FIRE PANEL / ELEVATOR UPGRADES

PREPARED FOR
THE OHIO STATE UNIVERSITY
FACILITIES OPERATIONS AND DEVELOPMENT
COLUMBUS, OHIO

STATE OF OHIO
TYLER J. BROZOVICH
ARC.2018034
REGISTERED ARCHITECT
EXPIRATION: 12/31/2026

PREPARED BY: *tel* 614 785.0505

WELLOGY PROJ.NO.: 25022

PHASE:
BID / PERMIT DRAWINGS

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SHEET TITLE:
UL REFERENCE DETAILS

SHEET NO.:
G203

ARCHIVED DRAWING NUMBER	DRAWN BY WELLOGY	DATE 7/17/2026	OF

UL U415

UL Product iQ®

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BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

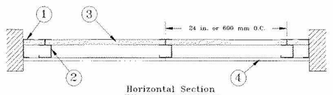
Design No. U415

February 14, 2022

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr

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

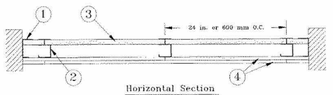
System A — 1 Hr.



Horizontal Section

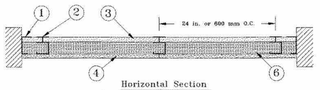
Feedback

System B — 2 Hr.



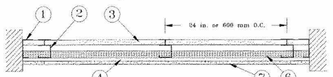
Horizontal Section

System C — 2 Hr.



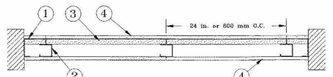
Horizontal Section

System D — 2 Hr.



Horizontal Section

System E — 2 Hr.



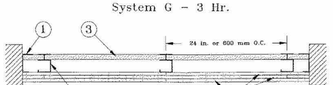
Horizontal Section

Feedback

System F — 2 Hr.

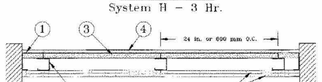
2B Horizontal Section

System G — 3 Hr.



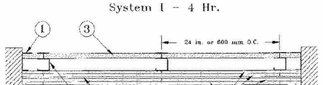
Horizontal Section

System H — 3 Hr.



Horizontal Section

System I — 4 Hr.



2C Horizontal Section

Feedback

1. **Floor, Side and Ceiling Runners —** "J" - shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B, 4C, 4D or 7 are used) galv steel. Runners

positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. "E" - shaped studs (Item 2A) may be used as side runners in place of "J" - shaped runners.

2. **Steel Studs —** "C-H" - shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Items 2D, 4A, 4B, 4C, 4D or 7 is used) galv steel. Cut to lengths 3/8 to 1/2 in. less than floor-to-ceiling height and spaced 24 in. or 600 mm OC (max 16 in. OC when Items 4A, 4B, 4C, or 4D are used).

2A. **Steel Studs —** (Not Shown) — "E" - shaped studs installed back to back in place of "C-H" - shaped studs (Item 2). "E" - shaped studs secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 2D, 4A, 4B or 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 to 1/2 in. less than floor to ceiling heights.

2B. **Furring Channels —** (Optional, Not Shown) — For use with single or double layer systems. Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting "C-H" or "E" stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type S or S-12 pan-head steel screws. When furring channels are used, wallboard to be installed vertically only. . Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

2C. **Furring Channels —** For use with System I - "Hat" - shaped, 25 MSG galv steel furring channels attached directly over the inner layers of wallboard to each stud with 2 in. long Type S pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC.

2D. **Steel Framing Members* —** (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC, perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in, OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75)

2E. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below.. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.Gypsum board attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Ea) to studs. Clips spaced 24 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

2F. **Steel Framing Members* —** (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 3.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC. GENIECLIPS secured to studs No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring

Feedback

channels are friction fitted into clips.
PLITEQ INC — Type GENIECLIP

2G. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 2Gb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Ga) to studs. Clips spaced 24 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

2H. **Steel Framing Members* —** (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 2Ha) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

2I. **Steel Framing Members* —** (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Ia) to studs (Item 2 or 2A). Clips spaced max. 24 in, OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

3. **Gypsum Board* —** Gypsum liner panels, nom 1 in. thick, 24 in. on 600 mm (for metric spacing) wide. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H" portion of "C-H" studs or the gap between the two 3/4 in. legs of the "E" studs. Free edge of end panels attached to long leg of vertical "J" - runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC. When wall height exceeds liner panel length, liner panel may be butted to extend to the full height of the wall. Horizontal joints need not be backed by steel framing. In System I, butt joints in liner panels are staggered min 36 in. Butt joints backed with 6 in. by 22 in. strips of 3/4 in. thick gypsum wallboard (Item 4). Wallboard strips centered over butt joints and secured to liner panels with six 1-1/2 in. long Type G steel screws, three screws along the 22 in. dimension at the top and bottom of the strips.
CGC INC — Type SLX

UNITED STATES GYPSUM CO — Type SLX

USG BORAL DRYWALL SFZ LLC — Type SLX

USG MEXICO S A DE C V — Type SLX

4. **Gypsum Board* —**

System A — 1 Hr

Feedback

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. when installed vertically or 8 in OC when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, WRC, WRX, USGX.

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

System B — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in two layers, inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in; OC when installed vertically. Outer or face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 12 in. OC when installed vertically and staggered 12 in. from base layer screws or 8 in. OC when installed horizontally and staggered 8 in. from base layer screws. Horizontal joints between inner and outer layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC, WRX

System C — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, secured with 1-1/4 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field when installed vertically or 8 in. OC along the vertical edges and in the field when installed horizontally. Horizontal joints need not be backed by steel framing. Screws along side joints offset 4 in. Requires min 4 in. deep framing per Items 1, 2 and 3. Requires min 3 in. thick mineral wool batts per Item 6.

CGC INC — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — Type ULTRACODE

USG MEXICO S A DE C V — Types IP-X3 or ULTRACODE

System D — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached directly to studs with 1 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Horizontal joints need not be backed by steel framing. Requires face layer of 1/2 or 5/8 in. thick cementitious backer units per Item 7 and min 1-1/2 in. thick mineral wool batts per Item 6.

Feedback

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

System E — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. OC when installed vertically or 8 in. when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC, WRX

System F — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically in two layers. Inner or base layer attached to resilient furring channels (Item 2B) with 1 in. long Type S steel screws spaced 24 in. Outer or face layer attached to resilient furring channels (Item 2B) with 1-5/8 in. long Type S steel screws spaced 12 in. OC and staggered 12 in. from base layer screws. Joints between inner and outer layers staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC, WRX

System G — 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in three layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in OC when installed horizontally. Middle layer attached to studs with 1-5/8 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 2-1/4 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. . Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

Feedback

CGC INC — Types C, IP-X2, IPC-AR, ULIX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX, WRC

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

System H — 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, two layers over the flange of the "C" section of the studs, one layer over the flange of the "H" section of the studs. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, ULIX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX, WRC

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

System I — 4 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 4 ft wide (or 1200 mm for metric spacing) wallboard with square or tapered edges. Total of four layers to be used. First and second (inner) layers applied vertically or horizontally over the steel studs. Horizontal joints need not be backed by steel framing. When applied vertically, joints centered over studs and staggered min 24 in., otherwise all joints staggered min 12 in. First layer secured to studs with 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to studs with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Third layer applied vertically over the furring channels (Item 2C) with a 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Fourth layer applied vertically or horizontally with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. When applied vertically, joints to be staggered min 24 in. from third layer, otherwise all joints staggered min 12 in.

CGC INC — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — Type ULTRACODE

USG MEXICO S A DE C V — Types IP-X3 or ULTRACODE

4A. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9) or Lead Discs or Tabs (see Item 10).
RAY-BAR ENGINEERING CORP — Type RB-LBG

Feedback

4B. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or #6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.
NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Type Nelco

4C. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A). Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip.
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4D. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5. **Joint Tape and Compound —** (Not Shown)

Systems A, B, C, E, F, G, H, I

Joints on outer layers of gypsum boards (Item 4 and 4A) covered with paper tape and joint compound. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. Exposed screw heads covered with joint compound.

6. **Batts and Blankets* —**

Systems A, B, E, F, G, H, I

(Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL Classification Marking as to Fire Resistance.

Systems C & D

Min 3 in. (System C) and min 1-1/2 in. (System D) thick mineral wool batts, friction fitted between the studs and floor and ceiling runners.

ROCKWOOL — Type AFB, min. density 1.8 pcf / 28.8 kg/m^3

THERMAFIBER INC — Type SAFB, SAFB FF

7. **Cementitious Backer Units* —** (System D) — Nom 1/2 or 5/8 in. thick panels, square edge, attached to studs over gypsum wallboard with 1-5/8 in. long, Type S-12, corrosion resistant steel screws spaced 8 in. OC and staggered 8 in. from gypsum wall board screws. Joints covered with glass fiber mesh tape. Vertical joints staggered one stud cavity from gypsum wallboard joints. Horizontal joints staggered a min of 12 in. from the gypsum wallboard joints.
UNITED STATES GYPSUM CO — Type DCB

8. **Laminating Adhesive* —** (Optional, Not Shown) — Used to bond outer layer of Cementitious Backer Units (Item 7) to inner layers of Gypsum Board (Item 4) in System D. ANSI A136.1 Type 1 organic adhesive applied with 1/4 in. square notched trowel. See Adhesives (BYWR) in the Fire Resistance Directory or Adhesives (BJLZ) in the Building Materials Directory for names of Classified companies.

9. **Lead Batten Strips —** (Not Shown, For Use With Item 4A) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long

Feedback

Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Required behind vertical joints.

9A. **Lead Batten Strips —** (Not Shown, for use with Item 4C) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 6) and optional at remaining stud locations.

10. **Lead Discs or Tabs —** (Not Shown, For Use With Item 4A) — Used in lieu of or in addition to the lead batten strips (Item 9) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4A) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

10A. **Lead Discs —** (Not Shown, for use with Item 4C) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

11. **Lead Batten Strips —** (Not Shown, For Use With Item 4B) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4B) and optional at remaining stud locations.

12. **Lead Tabs —** (Not Shown, For Use With Item 4B) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 4B) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

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

Last Updated on 2022-02-14

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Feedback

REVISIONS		
NO.	DATE	DESCRIPTION

OSU PROJECT NUMBER *OSU-250050*

MARION - MORRILL HALL FIRE PANEL / ELEVATOR UPGRADES

PREPARED FOR
THE OHIO STATE UNIVERSITY
FACILITIES OPERATIONS AND DEVELOPMENT
COLUMBUS, OHIO

STATE OF OHIO
TYLER J. BROZOVICH
ARC.2018034
REGISTERED ARCHITECT
EXPIRATION: 12/31/2026

PREPARED BY: *tel* 614 785.0505
wellogy designing for life
6767 Longshore Street, Suite 540 · Dublin, OH 43017
www.wellogydesign.com

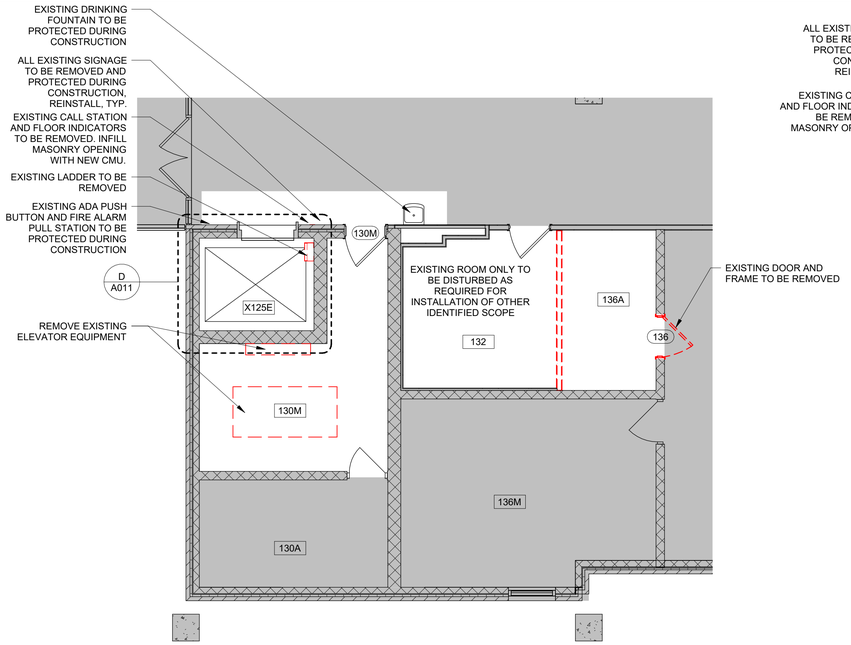
WELLOGY PROJ.NO.: 25022

PHASE:
BID / PRESENTATION DRAWINGS

SHEET TITLE:
UL REFERENCE DETAILS

SHEET NO.: G204

ARCHIVED DRAWING NUMBER	DRAWN BY WELLOGY	DATE 7/17/2026	OF



A DEMOLITION PLAN - LEVEL 01

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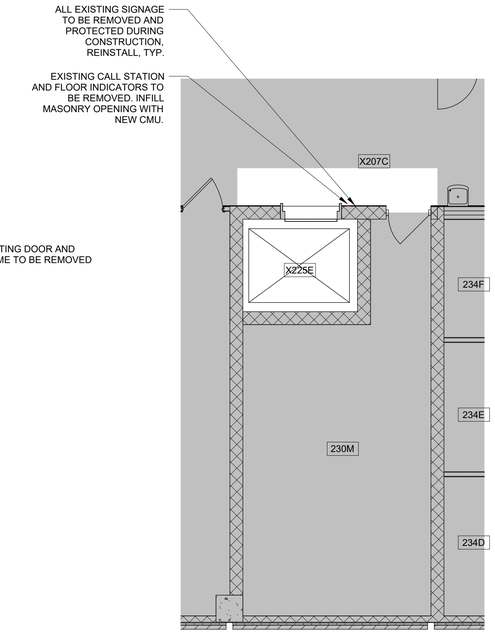

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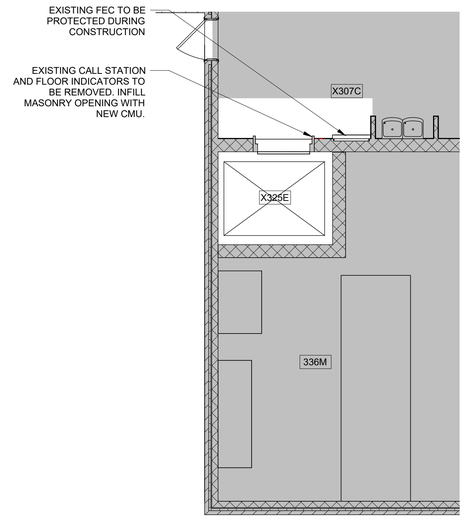

C DEMOLITION PLAN - LEVEL 03

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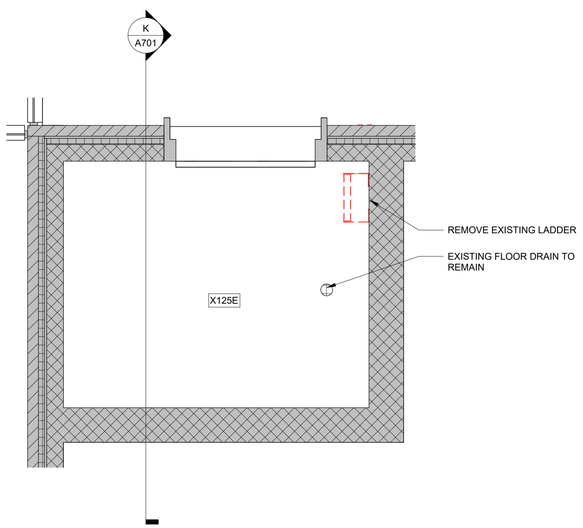

D DEMOLITION PLAN - ELEVATOR PIT

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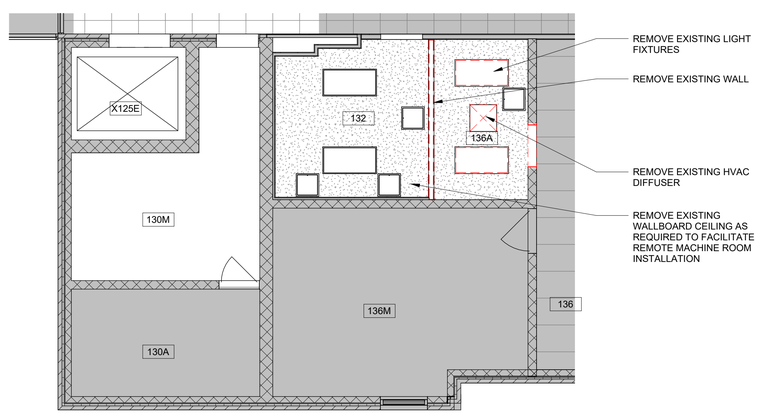


E DEMOLITION REFLECTED CEILING PLAN - LEVEL 01

0 8' - 0" 16' - 0" 24' - 0"

DEMOLITION GENERAL NOTES

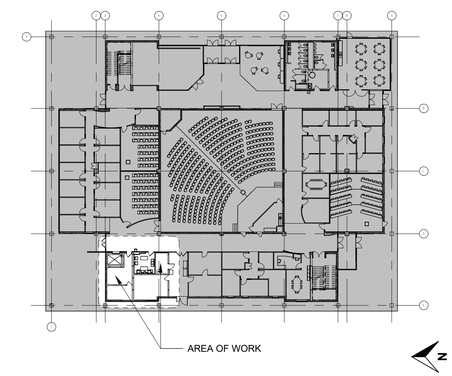
1. VERIFY EXISTING CONDITIONS BEFORE PROCEEDING WITH ANY WORK. NOTIFY THE ARCHITECT IF CONDITIONS ENCOUNTERED DIFFER FROM CONDITIONS SHOWN ON THE DRAWINGS.
2. DIMENSIONS FOR METAL STUD AND WALLBOARD PARTITIONS ARE TO THE FACE OF THE WALLBOARD, UNLESS NOTED OTHERWISE. MASONRY WALL DIMENSIONS ARE TO THE FACE OF THE MATERIAL.
3. ANY DEMOLITION PERFORMED TO FACILITATE MEP WORK SHALL BE REPAIRED, REINSTALLED, OR REPLACED TO MEET OR EXCEED EXISTING CONDITIONS.
4. TOOTH-IN MASONRY TO ADJACENT WALLS AT LOCATIONS OF DEMOLITION LEAVING EXPOSED MASONRY, UNLESS NOTED OTHERWISE
5. IN AREAS SCHEDULED TO BE DEMOLISHED, REMOVE ALL FINISHED CEILINGS, LIGHTS, DIFFUSERS, ELECTRICAL EQUIPMENT, ETC, UNLESS NOTED OTHERWISE.

DEMOLITION LEGEND - PLAN

- EXISTING WALLS TO BE REMOVED
- EXISTING WALLS TO REMAIN
- REMOVE EXISTING WINDOW AND FRAME UNLESS NOTED OTHERWISE
- EXISTING DOOR TO REMAIN
- REMOVE EXISTING DOOR AND FRAME UNLESS NOTED OTHERWISE

SHEET NOTES - DEMO PLAN

NUMBER	DESCRIPTION



REVISIONS

NO.	DATE	DESCRIPTION

OSU PROJECT NUMBER *OSU-250050*

MARION - MORRILL HALL FIRE PANEL / ELEVATOR UPGRADES

PREPARED FOR
THE OHIO STATE UNIVERSITY
FACILITIES OPERATIONS AND DEVELOPMENT
COLUMBUS, OHIO

STATE OF OHIO
TYLER J. BROZOVICH
ARC.2018034
REGISTERED ARCHITECT
EXPIRATION: 12/31/2026

PREPARED BY: *tel* 614 785.0505

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www.wellogydesign.com

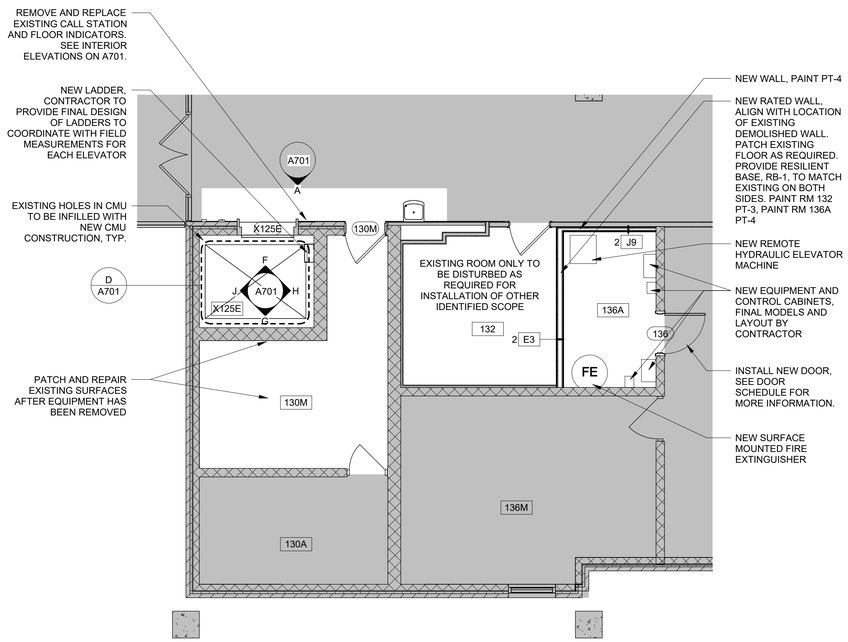
WELLOGY PROJ.NO.: 25022

PHASE:
BID / PERMIT DRAWINGS

SHEET TITLE:
DEMOLITION PLANS

SHEET NO.:
A011

ARCHIVED DRAWING NUMBER	DRAWN BY WELLOGY	DATE 7/17/2026	OF



A NEW WORK PLAN - LEVEL 01

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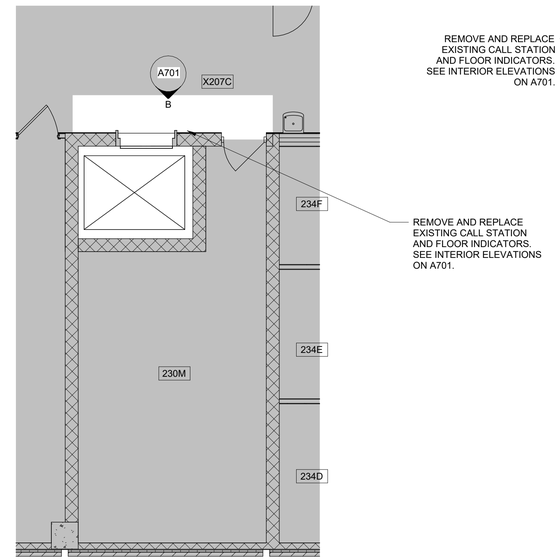

B NEW WORK PLAN - LEVEL 02

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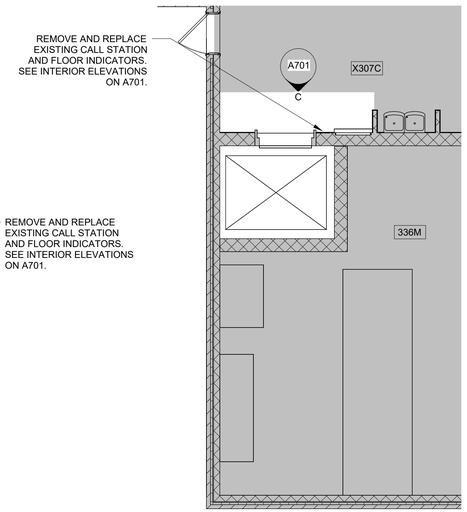

C NEW WORK PLAN - LEVEL 03

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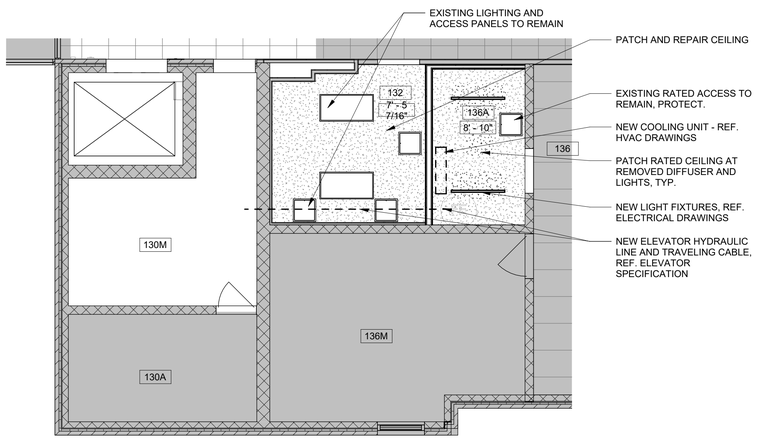

D NEW WORK RCP - LEVEL 01

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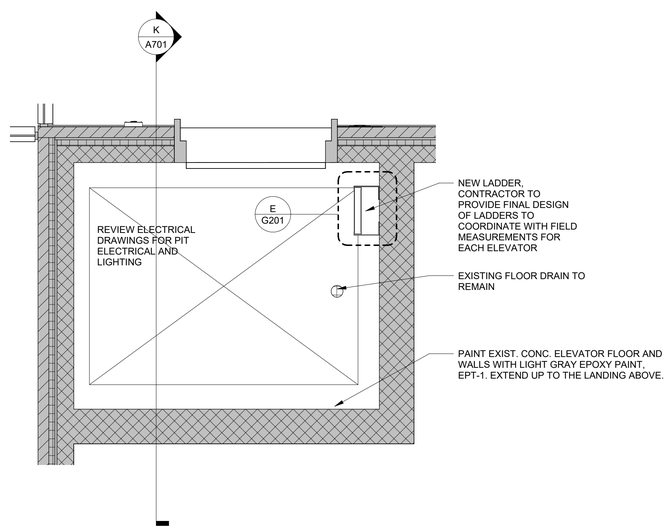


F NEW WORK PLAN - ELEVATOR PIT

0 2' - 0" 4' - 0" 6' - 0"

NEW WORK GENERAL NOTES

1. VERIFY EXISTING CONDITIONS BEFORE PROCEEDING WITH ANY WORK. NOTIFY THE ARCHITECT IF CONDITIONS ENCOUNTERED DIFFER FROM CONDITIONS ON THE DRAWINGS.
2. DIMENSIONS FOR METAL STUD PARTITIONS ARE TO THE FACE OF WALLBOARD, UNLESS NOTED OTHERWISE.
3. IN THE EVENT THAT A CONFLICT OR AMBIGUITY EXISTS WITHIN THE CONTRACT DOCUMENTS, INCLUDING BETWEEN TRADES OR BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR SHALL (1) INCLUDE THE HIGHEST QUALITY AND LARGEST QUANTITY IN THEIR BID AND (2) CONSULT THE ARCHITECT FOR CLARIFICATION PRIOR TO BEGINNING THEIR WORK.
4. CONTRACTOR SHALL ACCEPT PROJECT CONDITIONS AS THEY ARE AND WILL BE RESPONSIBLE FOR ALL PATCHING AND REPAIRING REQUIRED TO FACILITATE NEW WORK. PATCHING AND REPAIRING SHALL INCLUDE, BUT IS NOT LIMITED TO, WALL PENETRATIONS, FLOOR PATCHING, FLOOR LEVELING, ETC.
5. PROVIDE FIRE TREATED WOOD BLOCKING FOR THE MOUNTING OF ALL WALL ACCESSORIES, CASEWORK, EQUIPMENT, ETC. REFER TO THE ACCESSORY MOUNTING HEIGHTS CHART ON SHEET G301 FOR TYPICAL MOUNTING HEIGHTS. COORDINATE WITH THE APPROPRIATE TRADE, SUBCONTRACTOR, AND/OR MANUFACTURER AS NEEDED. CONSULT THE ARCHITECT FOR ANY CLARIFICATIONS.
6. DOOR FRAMES ARE TO BE LOCATED 4" FROM ADJACENT WALL, UNLESS NOTED OTHERWISE.
7. PROVIDE TRANSITION STRIPS AND TERMINATION STRIPS AT CHANGES IN FLOORING MATERIAL TO ASSURE A SMOOTH TRANSITION OF FINISHES. WHERE APPROPRIATE, TRANSITIONS SHOULD BE AT THE CENTER OF THE DOOR, NOT THE FRAME.
8. MOUNT ALL FIRE EXTINGUISHERS AND FIRE EXTINGUISHER CABINETS SO THAT THE EXTINGUISHER HANDLE IS WITHIN CODE-COMPLIANT ACCESSIBLE REACH RANGES.

PLAN LEGEND

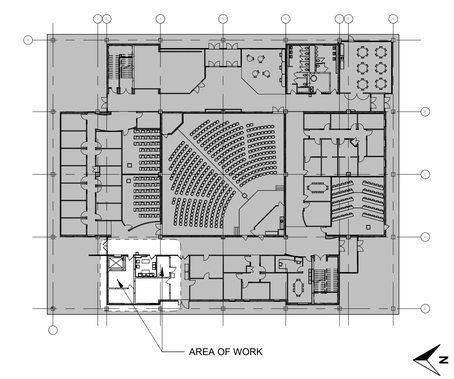
- EXISTING WALLS TO REMAIN
- NEW PARTITION
- MASONRY WALL
- OFOI
- OFCI
- NEW DOOR AND FRAME, SEE DOOR SCHEDULE
- EXISTING DOOR AND FRAME TO REMAIN
- NEW WINDOW AND FRAME
- OFVI

SYMBOL LEGEND

- 101 DOOR DESIGNATION
- X WINDOW DESIGNATION
- R RESPONSIBILITY TAG
- 1 CODED NOTE DESIGNATION
- 0 A3A WALL DESIGNATION

SHEET NOTES - PLAN

NUMBER	DESCRIPTION



REVISIONS

NO.	DATE	DESCRIPTION

OSU PROJECT NUMBER *OSU-250050*

MARION - MORRILL HALL FIRE PANEL / ELEVATOR UPGRADES

PREPARED FOR
THE OHIO STATE UNIVERSITY
FACILITIES OPERATIONS AND DEVELOPMENT
COLUMBUS, OHIO

STATE OF OHIO · TYLER J. BROZOVICH · ARC.2018034 · REGISTERED ARCHITECT
EXPIRATION: 12/31/2026

PREPARED BY: *tel* 614 785.0505

wellogy designing for life
6767 Longshore Street, Suite 540 · Dublin, OH 43017
www.wellogydesign.com

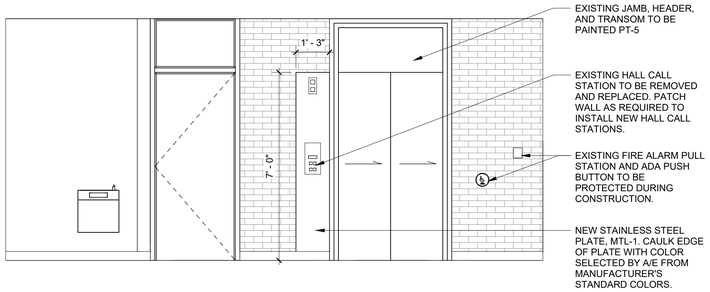
WELLOGY PROJ.NO.: 25022

PHASE: BID / PERMIT DRAWINGS

SHEET TITLE: NEW WORK PLANS

SHEET NO.: A101

ARCHIVED DRAWING NUMBER	DRAWN BY WELLOGY	DATE 7/17/2026	OF



A ELEVATOR LOBBY ELEVATION - LEVEL 01

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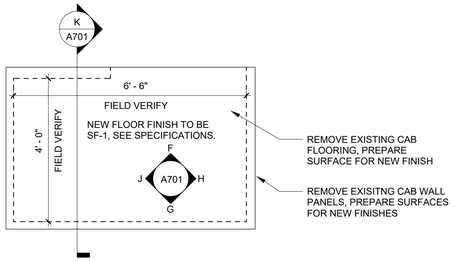

D NEW WORK PLAN - CAB PLAN

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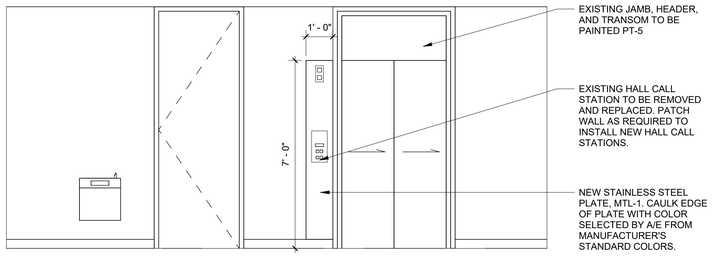

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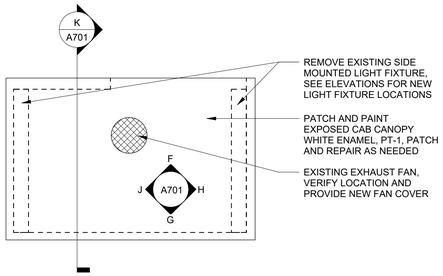

E NEW WORK RCP - ELEVATOR CAB

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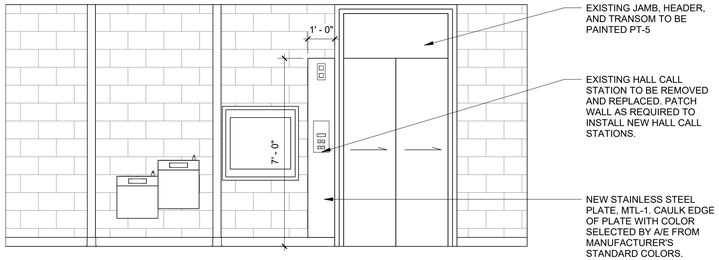
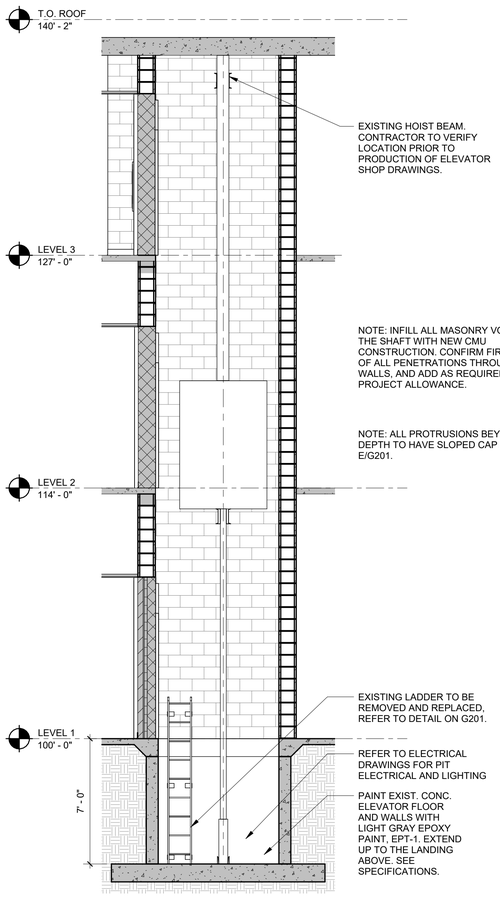


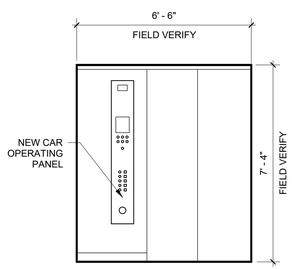
C ELEVATOR LOBBY ELEVATION - LEVEL 03

0 2' - 0" 4' - 0" 6' - 0"



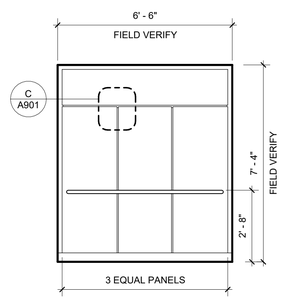
K SECTION - ELEVATOR SHAFT

0 4' - 0" 8' - 0" 12' - 0"



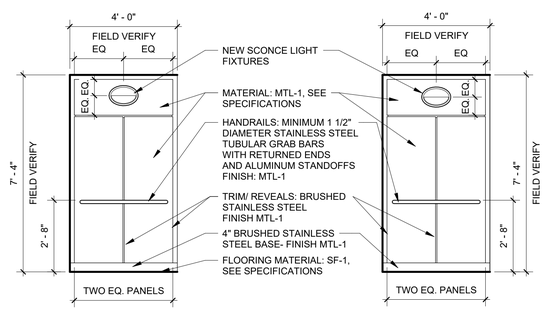
F CAB ELEVATION - N

0 2' - 0" 4' - 0" 6' - 0"



G CAB ELEVATION - S

0 2' - 0" 4' - 0" 6' - 0"



H CAB ELEVATION - E

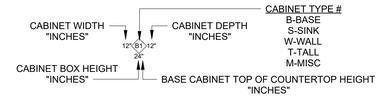
0 2' - 0" 4' - 0" 6' - 0"

J CAB ELEVATION - W

0 2' - 0" 4' - 0" 6' - 0"

INTERIOR ELEVATION GENERAL NOTES

1. ALL DIMENSIONS INDICATED ON INTERIOR ELEVATIONS ARE MEASURED FROM FACE OF FINISH UNLESS OTHERWISE NOTED.
2. REFER TO FINISH SCHEDULE AND PLANS FOR ADDITIONAL FINISH INFORMATION.
3. TOLERANCE FOR BUILT-IN ITEMS, INCLUDING CASEWORK, MILLWORK, APPLIANCES, ETC. MUST BE FULLY COORDINATED TO ENSURE ADEQUATE FIT AND PROPER CLEARANCES.
4. PROVIDE FINISHED END PANELS MATCHING THE CABINET FACE AT ALL EXPOSED CABINET SIDES, UNLESS NOTED OTHERWISE.
5. CONTRACTOR SHALL PROVIDE FIRE TREATED WOOD BLOCKING FOR THE MOUNTING OF ALL WALL ACCESSORIES, CASEWORK, EQUIPMENT, ETC. REFER TO THE ACCESSORY MOUNTING HEIGHTS CHART ON SHEET G301 FOR TYPICAL MOUNTING HEIGHTS. COORDINATE WITH THE APPROPRIATE TRADE, SUBCONTRACTOR, AND/OR MANUFACTURER AS NEEDED. CONSULT THE ARCHITECT FOR ANY CLARIFICATIONS.
6. REFER TO THE TYPICAL MOUNTING HEIGHTS DIAGRAM FOR MOUNTING HEIGHTS OF ACCESSORIES AND DEVICES AND ASSOCIATED IN-WALL BLOCKING.
7. REFER TO THE ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPES AND MOUNTING REQUIREMENTS. WHERE UNDER CABINET LIGHTING IS INDICATED, PROVIDE 2" APRON AT FRONT AND EXPOSED EDGES TO CONCEAL, UNLESS NOTED OTHERWISE.
8. COUNTERTOPS THAT ARE INDICATED TO BE AT 34" MEASURED FROM THE FINISHED FLOOR TO THE TOP OF THE SINK RIM OR LESS THAN 34" TO THE TOP OF THE COUNTERTOP, MAY REQUIRE CUSTOM CABINETRY TO COMPLY WITH ACCESSIBILITY GUIDELINES, UNLESS CONTRACTOR CAN DEMONSTRATE AN ALTERNATE METHOD OF COMPLIANCE.
9. REFER TO MILLWORK PROFILES FOR TYPICAL MOULDINGS AND TRIM.
10. TYPICAL CASEWORK DETAILS AND SIZES ARE INDICATED AS FOLLOWS:



SYMBOL LEGEND

1i	RESPONSIBILITY TAG		OFOI
	OFCI		OFVI

SHEET NOTES - INT. ELEVATIONS

NUMBER	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION

OSU PROJECT NUMBER *OSU-250050*

MARION - MORRILL HALL FIRE PANEL / ELEVATOR UPGRADES

PREPARED FOR
THE OHIO STATE UNIVERSITY
FACILITIES OPERATIONS AND DEVELOPMENT
COLUMBUS, OHIO

STATE OF OHIO
TYLER J. BROZOVICH
ARC.2018034
REGISTERED ARCHITECT
EXPIRATION: 12/31/2026

PREPARED BY: *tel* 614 785.0505
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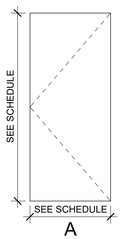
WELLOGY PROJ.NO.: 25022
PHASE: BID / PERMIT DRAWINGS

SHEET TITLE: INTERIOR ELEVATIONS

SHEET NO.: A701

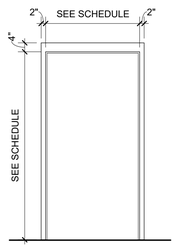
ARCHIVED DRAWING NUMBER	DRAWN BY WELLOGY	DATE 7/17/2026	OF

DOOR TYPES



A
FLUSH

FRAME TYPES



F2
HOLLOW METAL
4" HEAD

HARDWARE GROUP NO. 01
PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

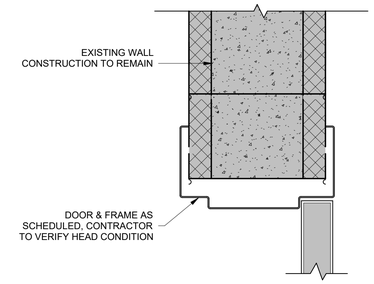
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
4	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L9080L 03N	626	SCH
1	EA	MORTISE CYLINDER	C987 (CAM & BLOCKING RING AS REQ.)	626	FAL
1	EA	SFIC CORE	CB809	626	FAL
1	EA	OH STOP	100S	630	FLY
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ	689	LCN
1	EA	KICK PLATE	8400 8" X 1 1/2" LDW B-CS	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

DOOR SCHEDULE

DOOR								FRAME				HDW	DETAILS			
NO.	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	RATING	TYPE	MATERIAL	FINISH	TRIM FINISH	SET	HEAD	JAMB	SILL	CODED NOTES
136	3' - 0"	8' - 10"	1 3/4"	A	HM	PAINT	90 MIN	F2	HM	PAINT		01	A/A901	B/A901		PAINT TO MATCH EXISTING

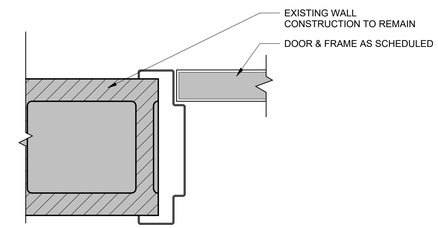
MATERIAL FINISH SCHEDULE

KEY NAME	DESCRIPTION	BASIS OF DESIGN MFR	PRODUCT / MODEL #	SIZE	COLOR	COMMENTS
EPT-1	EPOXY PAINT				LIGHT GRAY	
MTL-1	STAINLESS STEEL					NO. 4 BRUSHED FINISH
PL-1	PLASTIC LAMINATE	WILSONART			TAN ECHO 7914-38	
PT-1	PAINT				WHITE ENAMEL	CAB CANOPY, SHEEN: FLAT
PT-2	PAINT				MATCH EXISTING	CEILING RM 132 AND 136A
PT-3	PAINT				MATCH EXISTING	RM 132 NEW WALL
PT-4	PAINT				MATCH EXISTING	RM 136A NEW WALL
PT-5	PAINT				COLOR TBD	ELEVATOR JAMB, HEAD, AND TRANSOM. COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF STANDARD COLORS
RB-1	RESILIENT BASE			4" H, 0.125" THICK	MATCH EXISTING	COUNTINUOUS ROLL GOODS
SF-1	LINOLEUM SHEET FLOORING	TARKETT	LINOFLOOR XF		VENETO PEBBLE 604	



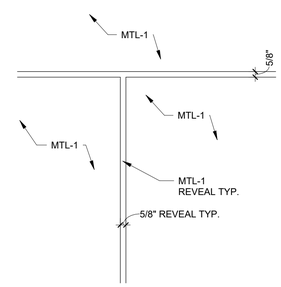
A H.M. HEAD DTL @ CMU

0 0' - 4" 0' - 8" 1' - 0"



B H.M. JAMB DTL @ CMU

0 0' - 4" 0' - 8" 1' - 0"



C CAB DETAIL

0 0' - 6" 1' - 0" 1' - 6"

GENERAL DOOR NOTES

1. REFER TO ARCHITECTURAL FLOOR PLANS FOR DOOR HANDING & PAIRS OF DOORS, TYP.

DOOR SCHEDULE LEGEND

HM	HOLLOW METAL
AL	ALUMINUM
WD	WOOD
MTL	METAL
SS	STAINLESS STEEL
IG	INSULATED GLASS
LG	1/2" LAMINATED GLASS
FG	FIRE RATED GLASS
TG	TEMPERED GLASS
CG	1/8" CLEAR GLASS
SC	SOLID CORE
HC	HOLLOW CORE
FF	FACTORY FINISH
PLAM	PLASTIC LAMINATED
PT	PAINTED
STN	STAINED
IR	IMPACT RESISTANT

DOOR RATING LEGEND

A. 3 HOUR RATING (FOR 4 HOUR WALL) NO GLASS ALLOWED.

B. 1-1/2 HOUR RATING (FOR 2 HOUR WALL) 100 SQ. IN. OF EXPOSED GLASS ALLOWED.

C. 3/4 HOUR RATING (FOR 1 HOUR WALL) 1296 SQ. IN. OF EXPOSED GLASS ALLOWED.

S. PREVENT THE PASSAGE OF SMOKE

DOOR SCHEDULE CODED NOTES

1. DOORS SHALL PREVENT THE TRANSFER OF SMOKE PER NFPA 105.
2. DOOR AND FRAME SHALL BE HOT DIPPED GALVANIZED STEEL. DOORS SHALL HAVE CLOSED TOPS.
3. FIRE RATED GLAZING
4. INSULATED
5. KEY CARD ACCESS
6. POWER ASSIST
7. OPENING TO HAVE UNEQUAL LEAVES. ONE SIDE SHALL BE X'-X" WIDE, THE OTHER X'-X" WIDE.
8. AUTOMATIC OPERATOR
9. SURFACED MOUNTED SLIDING DOOR WITH FRAME
10. 8" SILL HEIGHT AFF.
11. LEAD LINED
12. HALF HEIGHT KICKPLATE
13. FROSTED GLASS VISION LITE
14. KICKPLATE
15. EXISTING DOOR & FRAME TO BE RE-PAINTED; REF. INTERIOR FINISH SCHEDULE

REVISIONS

NO.	DATE	DESCRIPTION

OSU PROJECT NUMBER *OSU-250050*

MARION - MORRILL HALL FIRE PANEL / ELEVATOR UPGRADES

PREPARED FOR
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STATE OF OHIO
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EXPIRATION: 12/31/2026

PREPARED BY: *tel* 614 785.0505
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WELLOGY PROJ.NO.: 25022
PHASE: BID / PERMIT DRAWINGS

SHEET TITLE: DOOR & FRAME & MATERIAL SCHEDULES

SHEET NO.: A901

ARCHIVED DRAWING NUMBER	DRAWN BY WELLOGY	DATE 7/17/2026	OF

LIGHTING SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT UNLESS NOTED OTHERWISE
R1 R1 R1	LUMINAIRE: TYPE "R1"; SEE LUMINAIRE SCHEDULE	----
	EMERGENCY EGRESS LUMINAIRE: ON EMERGENCY BRANCH CIRCUIT OR WITH INTEGRAL BATTERY PACK	----
R2 W2 W2	CEILING OR WALL MOUNTED LUMINAIRE TYPE "R2", "W2"; SEE LUMINAIRE SCHEDULE	SEE DRAWINGS
X1 X1	EXIT SIGN FIXTURE (WITH DIRECTIONAL ARROWS AS SHOWN) (TYPE AND MOUNTING AS NOTED; SEE LUMINAIRE SCHEDULE) SHADED AREA DENOTES FACE	94"
W1 C1	EMERGENCY LIGHTING BATTERY PACK W/INTEGRAL HEADS (TYPE AND MOUNTING AS NOTED; SEE LUMINAIRE SCHEDULE)	94"
S X	LINE VOLTAGE SWITCH 0 - OCCUPANCY SENSOR SWITCH 3 - 3-WAY	46"

FIRE ALARM SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT UNLESS NOTED OTHERWISE
	COMBINATION FIRE ALARM AUDIBLE AND VISUAL DEVICE	LENS LOCATED WITHIN 80" TO 96"
	FIRE ALARM VISUAL DEVICE	LENS LOCATED WITHIN 80" TO 96"
	FIRE ALARM AUDIBLE DEVICE	≥ 90" TO TOP OF DEVICE ≥ 6" FROM CEILING TO TOP OF DEVICE
	CEILING MOUNTED COMBINATION FIRE ALARM AUDIBLE AND VISUAL DEVICE	CEILING
	CEILING MOUNTED FIRE ALARM VISUAL DEVICE	CEILING
	CEILING MOUNTED FIRE ALARM AUDIBLE DEVICE	CEILING
	FIRE ALARM MANUAL PULL STATION; K, KEY OPERATED TYPE	48"
DH	FIRE ALARM MAGNETIC DOOR HOLDER	72"
FL	FIRE ALARM FLOW SWITCH (BY DIVISION 22)	----
T	FIRE ALARM TAMPER SWITCH (BY DIVISION 22)	----
S : H	CEILING MOUNTED FIRE ALARM SMOKE DETECTOR; HEAT DETECTOR	----
S	DUCT MOUNTED FIRE ALARM SMOKE DETECTOR WITH REMOTE TEST STATION	----
S ER	SMOKE DETECTOR FOR ELEVATOR RECALL	----
C	CARBON MONOXIDE DETECTOR	----
FACP	FIRE ALARM CONTROL PANEL	----
NAC	FIRE ALARM EXTENDER PANEL	----
FAA	FIRE ALARM ANNUNCIATOR	----

LIGHTING GENERAL NOTES
APPLIES TO EACH LIGHTING DRAWING

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF LUMINAIRES. COORDINATE WITH OTHER TRADES CONTRACTORS, IN ADVANCE OF INSTALLATION, TO AVOID CONFLICTS OF SUFFICIENT SPACE ABOVE CEILINGS FOR RECESSED LIGHTING FIXTURES.
2. REFER TO ARCHITECTURAL ELEVATIONS, CASEWORK, AND DETAILS, ELECTRICAL DETAILS, AND LUMINAIRE SCHEDULE FOR LUMINAIRE MOUNTING HEIGHTS AND ADDITIONAL INSTALLATION INFORMATION.
3. LOCATIONS OF LUMINAIRES IN ROOMS WITH MECHANICAL EQUIPMENT SHALL BE COORDINATED IN FIELD WITH INSTALLED EQUIPMENT. FIXTURES TO BE LOCATED OVER ACCESS PATHWAYS AROUND EQUIPMENT AND NOT OVER TOP OF EQUIPMENT OR DUCTWORK. DO NOT SUSPEND FIXTURES FROM PIPING OR DUCTWORK. PROVIDE APPROPRIATE MOUNTING HARDWARE AS REQUIRED TO SUPPORT FIXTURES.
4. SOME SWITCHED LIGHTING CIRCUITING NOT SHOWN FOR CLARITY. ALL FIXTURES WITHIN A SPACE ARE TO BE CONTROLLED FROM SWITCHES/OCCUPANCY/VACANCY SENSORS SHOWN IN THAT SPACE UNLESS NOTED OTHERWISE.
5. OCCUPANCY/VACANCY SENSOR POWER PACKS ARE NOT SHOWN FOR CLARITY REFER TO OCCUPANCY/VACANCY SENSOR WIRING DIAGRAMS. POWER PACKS TO BE LOCATED WITHIN EACH ROOM ABOVE CEILING ADJACENT TO ENTRY DOOR. PROVIDE CONDUIT AND WIRING FROM POWER PACK TO SENSOR UNITS.
6. INSTALL DRIVER FOR LUMINAIRES PROVIDED WITH REMOTE DRIVERS, IN NEAREST MECHANICAL ROOM WITH SUFFICIENT WALL SPACE. PROVIDE DRIVER WIRING SIZED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION FOR DISTANCE.
7. PROVIDE STEEL BRIDGING BETWEEN PURLINS/JOISTS/BEAMS AS NECESSARY TO SUPPORT THE WEIGHT OF SUSPENDED LUMINAIRES.

POWER SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT UNLESS NOTED OTHERWISE
	SIMPLEX RECEPTACLE; DUPLEX RECEPTACLE; QUADRUPLEX (DOUBLE DUPLEX) RECEPTACLE	18"
	DUPLEX RECEPTACLE; QUADRUPLEX RECEPTACLE GROUND FAULT INTERRUPTER	46"
U	DUPLEX RECEPTACLE, WITH TWO USB PORTS	18"
X X	RECEPTACLE FOR EQUIPMENT AS INDICATED	
X X	E - GFCI RECEPTACLE FOR MECHANICAL EQUIPMENT PER NEC 210.63 (A) SP - ELEVATOR SUMP PUMP; MOUNT IN PIT	---- 46"
WP	WEATHERPROOF GFCI DEVICE WITH WEATHERPROOF IN-USE COVER	24"
J	JUNCTION BOX, CEILING OR WALL MOUNTED	SEE DRAWINGS
M	MOTOR (BY DIVISION 1-25)	----
S M	MANUAL MOTOR STARTER	46"
S	TOGGLE DISCONNECT SWITCH	46"
60/45/3 3R, NF	SAFETY SWITCH (SWITCH SIZE, FUSE SIZE, NO. OF POLES -AS NOTED) "3R" DENOTES NEMA "3R" ENCLOSURE, "NF" DENOTES NONFUSED	60"
1/25/3 3R	COMBINATION MOTOR STARTER (STARTER SIZE, FUSE SIZE, NO. OF POLES -AS NOTED) "3R" DENOTES NEMA "3R" ENCLOSURE "NF" DENOTES NONFUSED	60"
2W B : 2W C	TWO-WAY EMERGENCY COMMUNICATIONS SYSTEM; BASE, CALL STATION, (1) CAT6 UTP	48"
CP	CONTROL PANEL	SEE DRAWINGS
VFD	VARIABLE FREQUENCY DRIVE	SEE DRAWINGS
	VOICE/DATA TERMINAL BOARD	60"
P1 P1	PANELBOARD: SURFACE MOUNTED, FLUSH MOUNTED PANEL DESIGNATION AS SHOWN	72"
	DISTRIBUTION PANELBOARD	----
	CONDUIT, RISER UP	----
	CONDUIT, RISER DOWN	----
	CONDUIT ROUTED UNDER FLOORSPACE OR UNDERGROUND	----
	HOME RUN BRANCH CIRCUIT (OVERHEAD)	----
	HOME RUN BRANCH CIRCUIT (UNDERFLOOR)	----
	FLEXIBLE CONDUIT OR CABLE	----
T1	TRANSFORMER: (SIZE AS NOTED OR IN TRANSFORMER SCHEDULE)	SEE DRAWINGS
PS	POWER SUPPLY	----

DEMOLITION GENERAL NOTES
APPLIES TO EACH DEMOLITION DRAWING

1. TURN OVER ANY SALVAGEABLE EQUIPMENT.
2. COORDINATE EXACT EXTENT OF DEMOLITION WITH ARCHITECTURAL DEMOLITION DRAWINGS.
3. COORDINATE PHASING OF DEMOLITION AND CONSTRUCTION PER DRAWINGS.
4. REMOVE ALL LIGHTING FIXTURES, DEVICES, OUTLETS, CONDUIT, CABLING, PANELS, AND EQUIPMENT WITHIN AREAS OF DEMOLITION. REMOVE WIRING AND CONDUIT BACK TO SOURCE OR LAST POINT OF CONNECTION TO REMAIN.
5. EXISTING EQUIPMENT OUTSIDE OF SCOPE OF WORK BOUNDARIES SHALL BE MAINTAINED. RECONNECT ANY CIRCUITS CUT PASSING THROUGH DEMOLITION AREAS.
6. REMOVE ALL UNUSED WIRING AND CABLES BACK TO THEIR SOURCE. REMOVE ALL UNUSED CONDUIT THAT IS EXPOSED OR ABOVE ACCESSIBLE CEILINGS WHICH IS AFFECTED BY OR IS IN THE AREA OF THE DEMOLITION WORK.
7. THE INTENTION OF THE ELECTRICAL DEMOLITION DRAWINGS IS TO DISCONNECT AND REMOVE ALL ELECTRICAL WORK MADE VOID BY THE SCOPE OF THE CONSTRUCTION AND ALTERATION. FIELD VERIFY EXACT MATERIAL QUANTITIES REQUIRED TO BE REMOVED.
8. WHERE BURIED CONDUITS EXTENDING OUT OF A CONCRETE SLAB BECOME ABANDONED, CUT AND GRIND THE CONDUITS OFF FLUSH WITH TOP OF SLAB AND PLUG WITH NON-SHRINK WATERPROOF GROUT FILL.
9. COORDINATE ALL DEMOLITION WORK WITH ALL OTHER TRADES.
10. LEGALLY DISPOSE OF HAZARDOUS MATERIALS AND BALLAST OR OTHER EQUIPMENT CONTAINING PCBS AND LAMPS CONTAINING MERCURY. COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS.

POWER GENERAL NOTES
APPLIES TO EACH POWER DRAWING

1. REFER TO DRAWINGS AND SPECIFICATIONS OF OTHER CONSTRUCTION TRADES FOR ADDITIONAL ELECTRICAL WORK INCLUDED IN THIS CONTRACT.
2. COORDINATE EXACT LOCATIONS OF EQUIPMENT WITH OTHER CONSTRUCTION TRADES. VERIFY EXACT WIRING AND CONNECTION REQUIREMENTS WITH SUBMITTAL DOCUMENTS BEFORE INSTALLATION. SPECIALTY OUTLET TYPES SHALL BE VERIFIED BEFORE ORDERING. ALL ELECTRICAL WORK SHOWN HERE MUST BE VERIFIED AND COORDINATED IN FIELD BEFORE INSTALLATION.
3. REFER TO ARCHITECTURAL ELEVATIONS FOR OUTLET MOUNTING HEIGHTS.
4. EXACT LOCATIONS OF FLOOR RECESSED OUTLETS, FLOORBOXES, AND POKE-THRUS, SHALL BE COORDINATED WITH FURNITURE AND EQUIPMENT PLANS. OBTAIN LATEST PLANS FROM OWNERS REPRESENTATIVE.
5. ALL CONDUITS IN AREAS WITHOUT SUSPENDED CEILINGS SHALL BE RUN INCONSPICUOUSLY AS POSSIBLE, HIDDEN BEHIND BEAMS, CLOSE TO DECK, ETC. OBTAIN APPROVAL OF CONDUIT RUNS BELOW BEAMS WITH OWNER'S REPRESENTATIVE.
6. ALL DEVICES SHOWN ON THE EXTERIOR OF THE BUILDING SHALL BE WEATHERPROOF TYPE. ALL WEATHERPROOF RECEPTACLES HAVE WHILE-IN-USE COVERS UNLESS NOTED OTHERWISE.
7. REFER TO ARCHITECTURAL DOOR SCHEDULES, AND DOOR HARDWARE SPECIFICATION FOR ELECTRICAL DEVICES INSTALLED AT DOORS.
8. PROVIDE ALL FINAL POWER CONNECTIONS TO EQUIPMENT. PROVIDE ALL CONDUIT, DEVICE BOXES, AND CONTROL WIRING TO EQUIPMENT UNLESS NOTED OTHERWISE.
9. RACEWAY SHALL RUN AS INCONSPICUOUSLY AS POSSIBLE. VERTICAL RUNS SHALL OCCUR IN CORNERS OF ROOMS. HORIZONTAL RUNS SHALL OCCUR ALONG BASEBOARD OF WALL WITH VERTICAL RUNS UP TO DEVICE BOXES BRANCHING OUT OF CORNER BOXES, TEES, ELBOWS, ETC.
10. REFER TO ARCHITECTURAL PLANS FOR WALL CONSTRUCTION.
11. CIRCUIT NUMBER INDICATED WITH "GF" IS A CIRCUIT PROTECTED BY GROUND FAULT INTERRUPTING CIRCUIT BREAKER.
12. PROVIDE HOSPITAL GRADE DEVICES IN ANY "PATIENT CARE" SPACE. MC CABLE IS NOT PERMITTED.
13. PROVIDE "TAMPER RESISTANT" DEVICES IN ANY PRE K-8 SCHOOL BUILDING; ANY BUSINESS OFFICE SPACE; OR ANY WAITING AREA.
14. GFCI DEVICES SHALL BE LOCATED SO THEY ARE CONSIDERED "ACCESSIBLE". PROVIDE GFCI TYPE CIRCUIT BREAKERS OTHERWISE.

ELECTRICAL ABBREVIATIONS

ABBREVIATIONS USED ON DRAWINGS IN GENERAL ARE LISTED BELOW. REFER TO CSI DOCUMENT TD-2-4 FOR ANY ABBREVIATIONS LISTED ON THE DRAWINGS BUT ARE NOT LISTED BELOW.

A	AMPS
AC	AIR COMPRESSOR
AF	ARC FLASH CIRCUIT INTERRUPTER DEVICE
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AHU	AIR HANDLER UNIT
BRKR	BREAKER
C	CONDUIT
CATV	CABLE ANTENNA TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CUH	CABINET UNIT HEATER
CKT	CIRCUIT
CPT	CONTROL POWER TRANSFORMER
Cu	COPPER
EF	EXHAUST FAN
ELEC	ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALIC TUBING
EPO	EMERGENCY POWER OFF
EVSE	ELECTRIC VEHICLE SERVICE EQUIPMENT (CHARGER)
EWC	ELECTRIC WATER COOLER
EX	EXISTING
F	FUSE
FAA	FIRE ALARM ANNUNCIATOR.
FACP	FIRE ALARM CONTROL PANEL
FAP	FIRE ALARM PANEL
FARA	FIRE ALARM REMOTE ANNUNCIATOR
FC	FAN COIL UNIT
FIXT	LIGHT FIXTURE
FLOUR	FLUORESCENT
FLR	FLOOR
FS	FUSIBLE SWITCH
G	GROUND
GRC	GALVANIZED RIGID CONDUIT
GF	GROUND FAULT INTERRUPTER DEVICE
HID	HIGH INTENSITY DISCHARGE
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HP	HORSEPOWER
IT	INFORMATION TECHNOLOGY
J	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATTS
LC	LIGHTING CONTACTOR
LTG	LIGHTING
LV	LOW VOLTAGE
MECH	MECHANICAL
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
+N	INDICATES MOUNTING HEIGHT (N) TO CENTER OF DEVICE FROM FINISH FLOOR UNLESS OTHERWISE NOTED
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC OR O/C	ON CENTER
OH	OVERHEAD
P	POLE (PHASE)
PVC	POLYVINYL CHLORIDE
PE	PNEUMATIC/ ELECTRIC
PNL	PANEL
Ø OR P	PHASE
RAF	RETURN AIR FAN
RTU	ROOFTOP UNIT
SH	SHUNT TRIP
SW	SWITCH
TCP	TEMPERATURE CONTROL PANEL
TFMR	TRANSFORMER
TR	TAMPER RESISTANT
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
W	WATTS
WP	WEATHERPROOF TYPE DEVICE
1/E.1	MEANS DETAIL No. 1, DRAWING SHEET "E1"

FIRE ALARM SYSTEM GENERAL NOTES

1. THE FIRE ALARM SYSTEM IN THIS BUILDING IS TO BE DESIGNATED DESIGN, TO BE PERFORMED BY NICET CERTIFIED TECHNICIAN.
2. DEVICE LOCATIONS AND QUANTITIES SHOWN ON THESE DRAWINGS INDICATE THE INTENT TO MEET CODE REQUIREMENTS FOR THIS BUILDING TYPE WITH LOCATIONS COORDINATED WITH BUILDING ARCHITECTURAL ELEMENTS FOR BEST AESTHETIC APPEARANCE IN THE SPACES. ADDITIONAL DEVICES MAY BE NEEDED IN SPACES TO MEET CODE. DEVICES SHALL BE LOCATED IN ACCORDANCE WITH THEIR PARTICULAR UL LISTING RESTRICTIONS.
3. FIRE ALARM DESIGNER SHALL BE THE AUTHOR OF HIS OWN DOCUMENTS FOR FIRE ALARM PERMIT, AND SHALL INCLUDE ADDITIONAL DEVICES AS NEEDED BEYOND THOSE SHOWN ON THESE DRAWINGS. DIVISION 26/28 CONTRACTOR/VENDOR SHALL INCLUDE THE COSTS OF ALL DEVICES IN HIS BID NECESSARY IN THIS BUILDING TO MEET CODES.
4. ALL LOCATIONS SHALL BE APPROVED BY THE ARCHITECT BEFORE INSTALLATION.

BRANCH CIRCUIT GENERAL NOTE

1. BRANCH CIRCUIT CONDUIT ROUTING IS NOT SHOWN ON THE PLANS AND LEFT TO THE DISCRETION OF THE CONTRACTOR. BRANCH CIRCUIT WIRE SIZE SHALL BE AS FOLLOWS BASED ON CONDUIT ROUTE LENGTHS. BEFORE WIRING INSTALLATION, VERIFY THAT THE FURTHEST DISTANCE FROM PANELBOARD TO OUTLET DOES NOT EXCEED THE FOLLOWING DISTANCE FOR WIRE SIZE SHOWN. INCREASE WIRE SIZE APPROPRIATELY FOR FARTHER DISTANCES.

CONDUCTOR SIZE	MAXIMUM LENGTH
#12 AWG	100 FEET
#10 AWG	150 FEET
#8 AWG	250 FEET
#6 AWG	400 FEET

SYMBOL LIST GENERAL INFORMATION

1. SOME SYMBOLS MAY NOT BE USED.
2. MOUNTING HEIGHTS ARE TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
3. STRAIGHT LINES BETWEEN DEVICES INDICATE CONTROLLED CIRCUIT.
4. DASHED SYMBOLS INDICATE EXISTING DEVICES TO BE REMOVED.
5. SOLID SYMBOLS WITH LIGHT LINEWEIGHT INDICATE EXISTING DEVICES TO REMAIN.
6. DASHED SYMBOLS WITH SUBSCRIPT "RL" INDICATE EXISTING DEVICES TO BE RELOCATED.
7. SOLID SYMBOLS WITH SUBSCRIPT "RD" INDICATE RELOCATED DEVICES.

DEVICE SUFFIXES

AC	ABOVE COUNTER
C	CEILING MOUNTED OUTLET
F	FLOOR MOUNTED OUTLET
S	SURFACE RACEWAY OUTLET
M	MODULAR FURNITURE OUTLET
W	WALL MOUNTED
WG	WIRE GUARD
WP	WEATHER PROOF

ELECTRICAL SHEET INDEX

SHEET NUMBER	SHEET NAME
E000	ELECTRICAL SYMBOLS AND LEGENDS
E101	DEMOLITION PLAN - LEVEL 1
E102	DEMOLITION PLAN - LEVEL 2
E103	DEMOLITION PLAN - LEVEL 3
E103A	DEMOLITION PLAN - LEVEL 3 ALTERNATE
E201	NEW WORK PLAN - LEVEL 1
E202	NEW WORK PLAN - LEVEL 2
E203	NEW WORK PLAN - LEVEL 3
E203A	NEW WORK PLAN - LEVEL 3 ALTERNATE
E501	ELECTRICAL SCHEDULES
E701	ELECTRICAL DETAILS
E702	ELECTRICAL DETAILS
E703	ELECTRICAL DETAILS

REVISIONS

NO.	DATE	DESCRIPTION

OSU PROJECT NUMBER *OSU-250050*

MARION - MORRIL HALL FIRE PANEL / ELEVATOR UPGRADES

PREPARED FOR
THE OHIO STATE UNIVERSITY
FACILITIES OPERATIONS AND DEVELOPMENT
COLUMBUS, OHIO

KORDA
KORDA/NEMETH ENGINEERING
WWW.KORDA.COM
DRAWN BY: Garrett Strauss
DESIGNED BY: Brendon Yoder
CHECKED BY: Stan Kmonk
PROJECT NUMBER: 2025-0308

STATE OF OHIO
STANLEY J. KMONK
E-81379
REGISTERED PROFESSIONAL ENGINEER
07-17-2026

PREPARED BY: tel 614 785.0505
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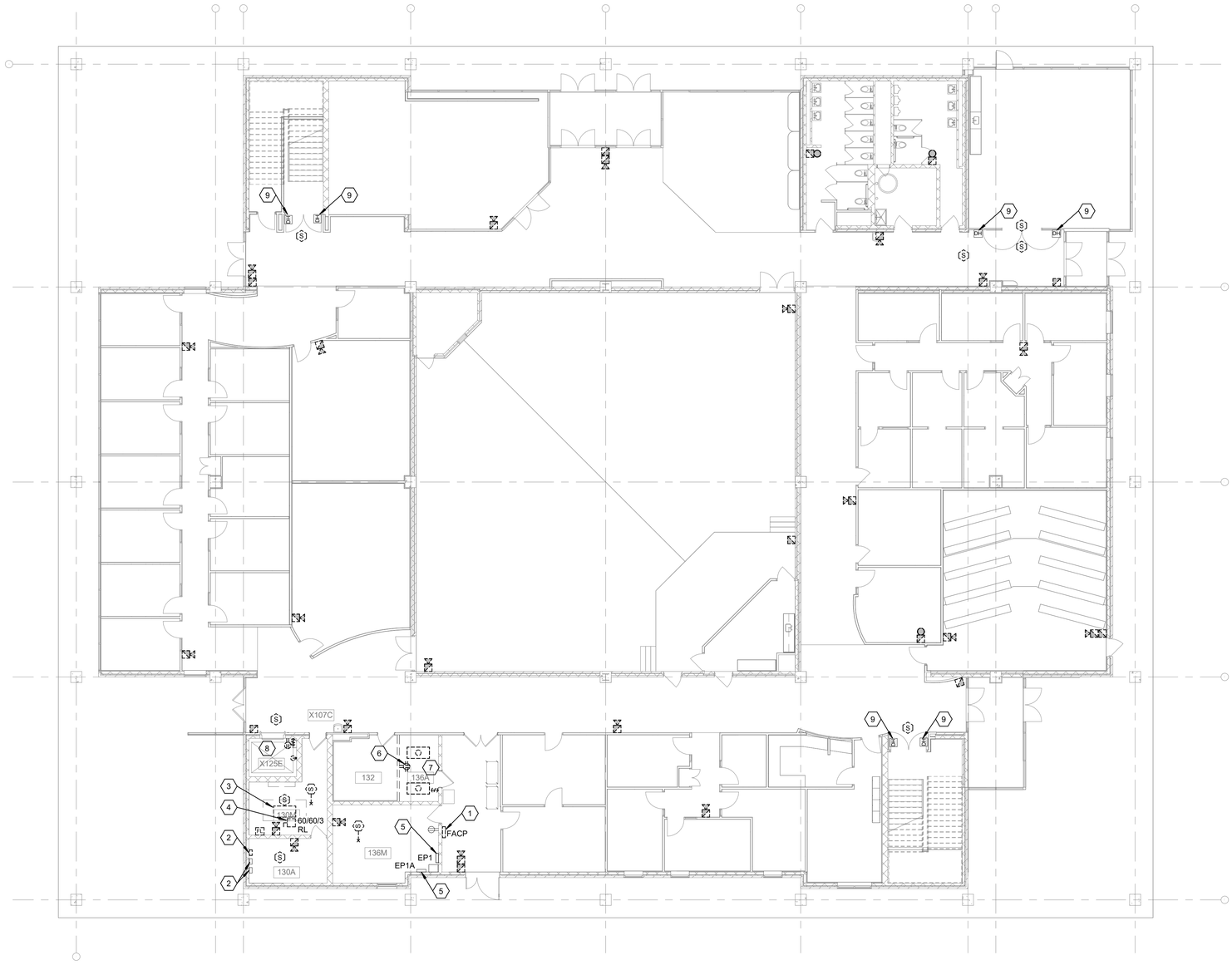
6767 Longshore Street, Suite 540 · Dublin, OH 43017
www.wellogydesign.com

WELLOGY PROJ.NO.: 25022
PHASE: BID / PERMIT DRAWINGS

SHEET TITLE: ELECTRICAL SYMBOLS AND LEGENDS
SHEET NO.: E000

ARCHIVED DRAWING NUMBER	DRAWN BY KORDA	DATE 7/17/2026	OF



1 FLOOR PLAN

DEMOLITION PLAN - LEVEL 1

SCALE: 3/32" = 1'-0"

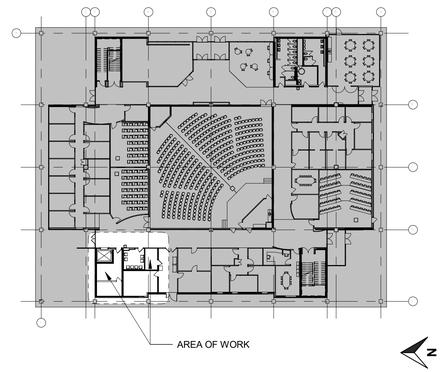
0' 2' 4' 12'

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, IT IS THE INTENT THAT ALL FIRE ALARM DEVICES, WIRING, CONDUITS, ETC., ON THIS FLOOR BE DISCONNECTED AND REMOVED IN THEIR ENTIRETY. THESE DRAWINGS WERE CREATED USING EXISTING AS-BUILT DRAWINGS AND FROM FIELD OBSERVATIONS. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT QUANTITY AND EXISTING CONDUIT ROUTING.
2. CONTRACTOR SHALL INCLUDE IN HIS BID THE DEMOLITION OF AN ADDITIONAL 5% OF FIRE ALARM DEVICES ATTRIBUTED TO FIELD CONDITIONS OR AS DIRECTED BY THE ARCHITECT OR ENGINEER.
3. CONTRACTOR SHALL COORDINATE PHASING OF CONSTRUCTION WITH OCCUPANCY OF BUILDING WITH OSU. FOR BIDDING PURPOSES, ASSUME THE BUILDING WILL BE OCCUPIED DURING CONSTRUCTION, AND THE EXISTING SYSTEM WILL NEED TO BE MAINTAINED UNTIL THE CONSTRUCTION OF THE NEW SYSTEM IS COMPLETE.

CODED NOTES

1. EXISTING FIRE ALARM CONTROL PANEL TO BE REMOVED.
2. EXISTING FIRE ALARM COMMUNICATORS. COMMUNICATOR FOR THIS BUILDING TO BE REMOVED. THERE ARE (2) COMMUNICATORS FOR OTHER BUILDINGS THAT ARE TO REMAIN.
3. EXISTING ELEVATOR MACHINE TO BE REMOVED. EXISTING FIRE ALARM RELAYS TO BE REMOVED.
4. EXISTING ELEVATOR MACHINE DISCONNECT TO BE RELOCATED TO NEW MACHINE ROOM. REFER TO E201 FOR NEW LOCATION. REMOVE EXISTING FEEDER BACK TO SOURCE (PANEL EP1).
5. EXISTING PANEL TO REMAIN.
6. EXISTING RECEPTACLE TO BE REMOVED.
7. EXISTING LIGHTING FIXTURES AND CONTROLS IN THIS SPACE TO BE REMOVED.
8. EXISTING PIT RECEPTACLE, LIGHTING FIXTURE AND LIGHTING SWITCH TO BE REMOVED.
9. EXISTING DOOR HARDWARE TO REMAIN. REMOVE EXISTING FIRE ALARM CONNECTION.



REVISIONS

NO.	DATE	DESCRIPTION

OSU PROJECT NUMBER *OSU-250050*

MARION - MORRIL HALL FIRE PANEL / ELEVATOR UPGRADES

PREPARED FOR

THE OHIO STATE UNIVERSITY
FACILITIES OPERATIONS AND DEVELOPMENT
COLUMBUS, OHIO

KORDA
KORDA NEMETH ENGINEERING
WWW.KORDA.COM

DRAWN BY:	Garrett Strauss
DESIGNED BY:	Brendon Yoder
CHECKED BY:	Stan Kmonk
PROJECT NUMBER:	2025-0308

STATE OF OHIO
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07-17-2026

PREPARED BY: tel 614 785.0505

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WELLOGY PROJ.NO.: 25022

PHASE:
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SHEET TITLE:
DEMOLITION PLAN - LEVEL 1

SHEET NO.:
E101

ARCHIVED DRAWING NUMBER	DRAWN BY KORDA	DATE 7/17/2026	OF

GENERAL NOTES

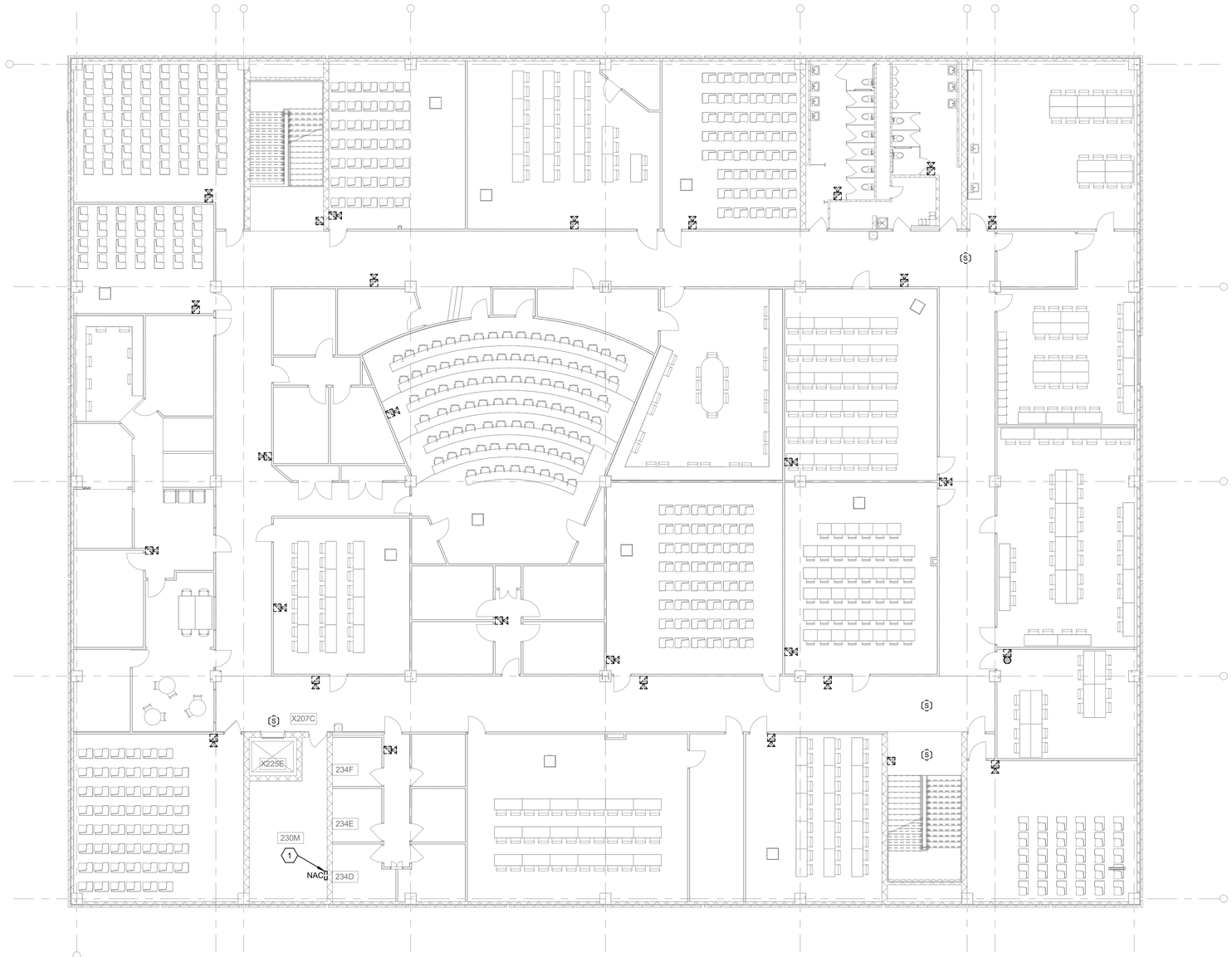
1. UNLESS NOTED OTHERWISE, IT IS THE INTENT THAT ALL FIRE ALARM DEVICES, WIRING, CONDUITS, ETC., ON THIS FLOOR BE DISCONNECTED AND REMOVED IN THEIR ENTIRETY. THESE DRAWINGS WERE CREATED USING EXISTING AS-BUILT DRAWINGS AND FROM FIELD OBSERVATIONS. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT QUANTITY AND EXISTING CONDUIT ROUTING.

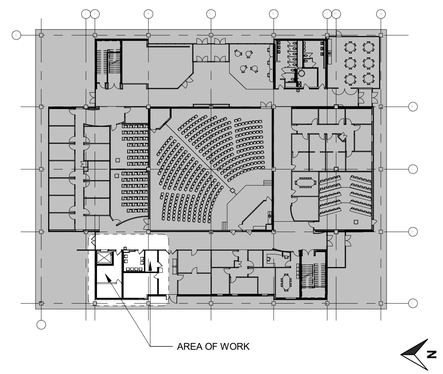
2. CONTRACTOR SHALL INCLUDE IN HIS BID THE DEMOLITION OF AN ADDITIONAL 5% OF FIRE ALARM DEVICES ATTRIBUTED TO FIELD CONDITIONS OR AS DIRECTED BY THE ARCHITECT OR ENGINEER.

3. CONTRACTOR SHALL COORDINATE PHASING OF CONSTRUCTION WITH OCCUPANCY OF BUILDING WITH OSU. FOR BIDDING PURPOSES, ASSUME THE BUILDING WILL BE OCCUPIED DURING CONSTRUCTION, AND THE EXISTING SYSTEM WILL NEED TO BE MAINTAINED UNTIL THE CONSTRUCTION OF THE NEW SYSTEM IS COMPLETE.

CODED NOTES

1. EXISTING FIRE ALARM EXTENDER PANEL TO BE REMOVED.





1 FLOOR PLAN

DEMOLITION PLAN - LEVEL 2

SCALE: 3/32" = 1'-0"
0' 2' 4' 12'

REVISIONS		
NO.	DATE	DESCRIPTION

OSU PROJECT NUMBER *OSU-250050*

MARION - MORRIL HALL FIRE PANEL / ELEVATOR UPGRADES

PREPARED FOR
THE OHIO STATE UNIVERSITY
FACILITIES OPERATIONS AND DEVELOPMENT
COLUMBUS, OHIO

PREPARED BY: *tel* 614 785.0505

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WELLOGY PROJ.NO.: 25022

PHASE:
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SHEET TITLE:
DEMOLITION PLAN - LEVEL 2

SHEET NO.:
E102

ARCHIVED DRAWING NUMBER	DRAWN BY KORDA	DATE 7/17/2026	OF

KORDA

KORDA: NEMETH ENGINEERING
WWW.KORDA.COM

DRAWN BY:	Garrett Strauss
DESIGNED BY:	Brendon Yoder
CHECKED BY:	Stan Kmonk
PROJECT NUMBER:	2025-0308

STATE OF OHIO
STANLEY J. KMONK
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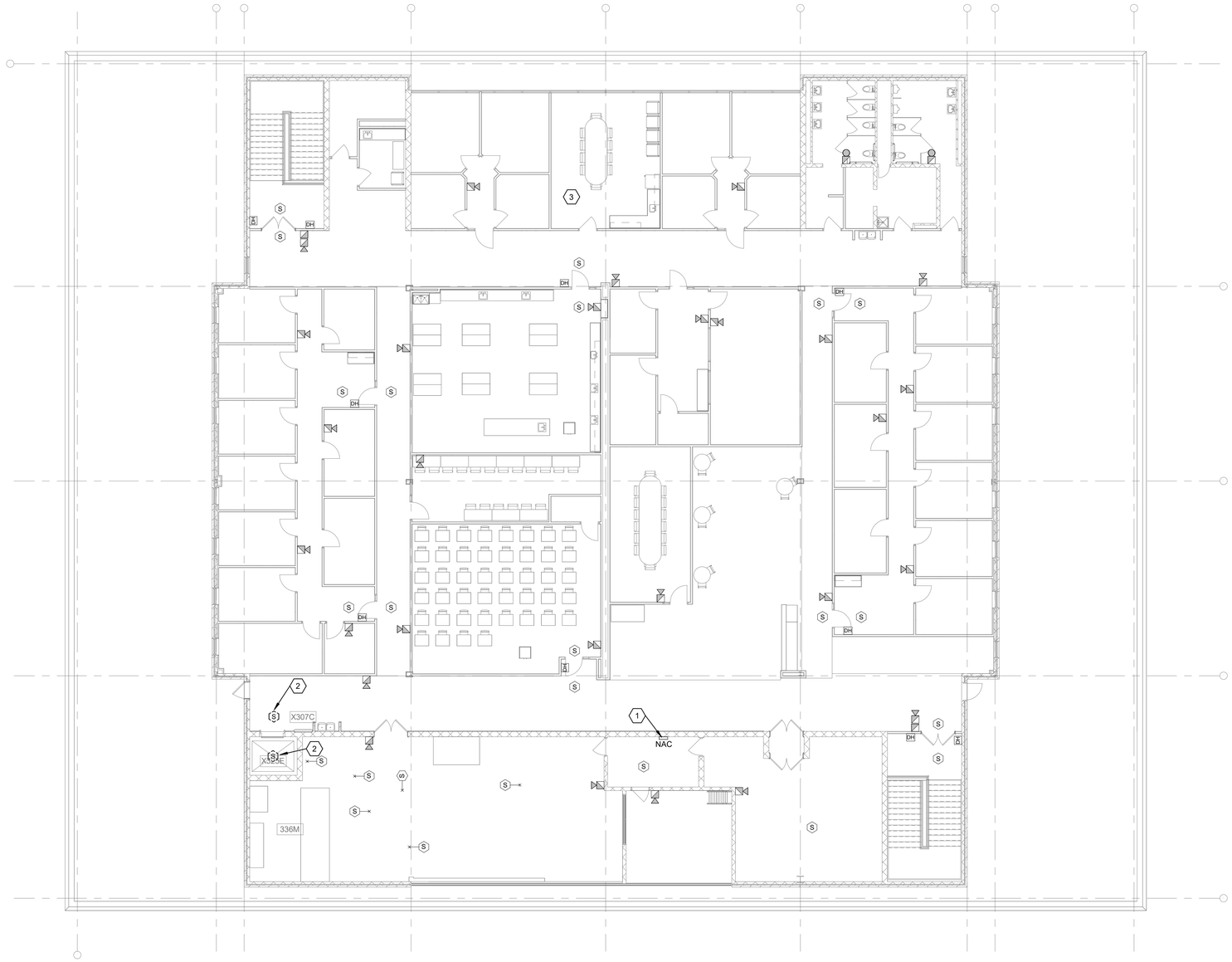
07-17-2026



1 FLOOR PLAN

DEMOLITION PLAN - LEVEL 3

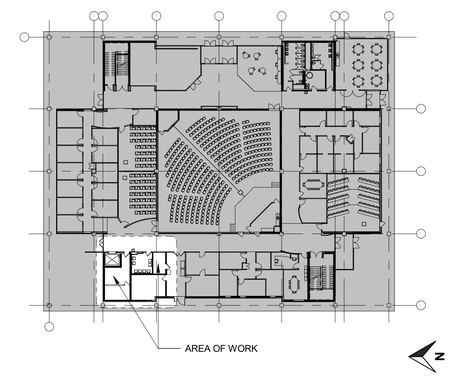
SCALE: 3/32" = 1'-0"
0' 2' 4' 12'

GENERAL NOTES

1. BASE BID SCOPE OF WORK: FIRE ALARM MANUFACTURER SHALL MATCH EXISTING SYSTEM IN THE BUILDING (EST). UNLESS NOTED OTHERWISE, IT IS THE INTENT THAT ALL FIRE ALARM DEVICES, WIRING, CONDUITS, ETC., ON THIS FLOOR SHALL REMAIN, AND BE RECONNECTED TO THE NEW FIRE ALARM SYSTEM. THESE DRAWINGS WERE CREATED USING EXISTING AS-BUILT DRAWINGS AND FROM FIELD OBSERVATIONS.
2. EXISTING FIRE ALARM SYSTEM SHALL BE MAINTAINTED THROUGHOUT THE CONSTRUCTION OF THE NEW FIRE ALARM SYSTEM.

CODED NOTES

1. EXISTING FIRE ALARM EXTENDER PANEL TO REMAIN.
2. EXISTING SMOKE DETECTOR TO BE REMOVED.
3. NO CONDUIT OR PENETRATIONS SHALL BE REMOVED FROM THIS ROOM.



REVISIONS

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OSU PROJECT NUMBER *OSU-250050*

MARION - MORRIL HALL FIRE PANEL / ELEVATOR UPGRADES

PREPARED FOR
THE OHIO STATE UNIVERSITY
FACILITIES OPERATIONS AND DEVELOPMENT
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PREPARED BY: *tel* 614 785.0505

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SHEET TITLE:
DEMOLITION PLAN - LEVEL 3

SHEET NO.:
E103

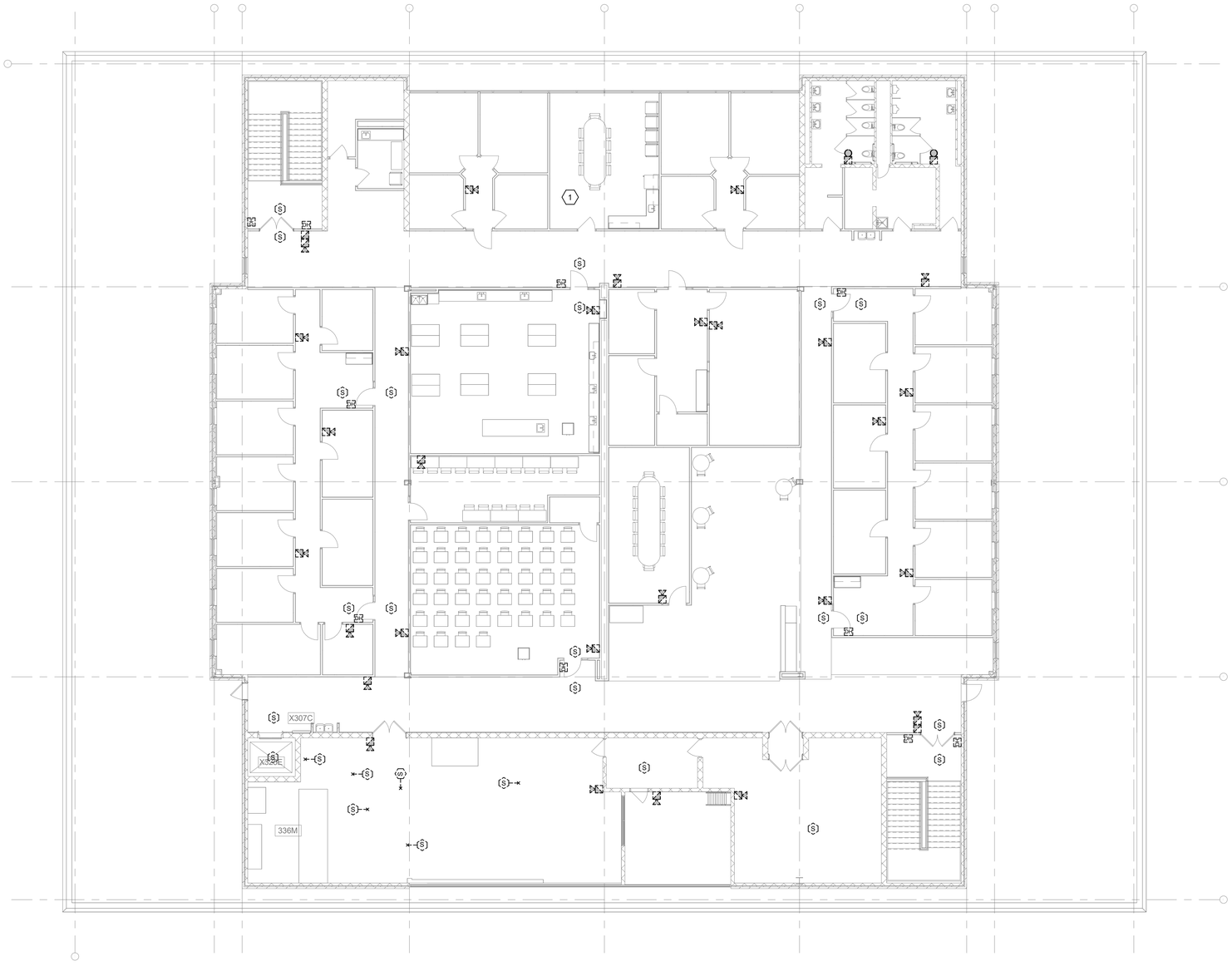
ARCHIVED DRAWING NUMBER	DRAWN BY KORDA	DATE 7/17/2026	OF

KORDA

KORDA: NEMETH ENGINEERING
WWW.KORDA.COM

DRAWN BY:	Garrett Strauss
DESIGNED BY:	Brendon Yoder
CHECKED BY:	Stan Kmonk
PROJECT NUMBER:	2025-0308

STATE OF OHIO
STANLEY J. KMONK
E-81379
REGISTERED
PROFESSIONAL ENGINEER
07-17-2026



1 FLOOR PLAN

DEMOLITION PLAN - LEVEL 3 ALTERNATE

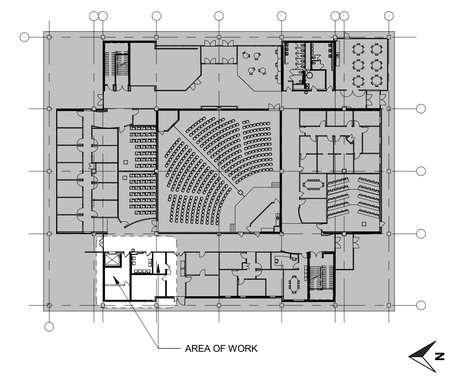
SCALE: 3/32" = 1'-0"
0' 2' 4' 12'

GENERAL NOTES

1. ALTERNATE #1: UNLESS NOTED OTHERWISE, IT IS THE INTENT THAT ALL FIRE ALARM DEVICES, WIRING, CONDUITS, ETC., ON THIS FLOOR BE DISCONNECTED AND REMOVED IN THEIR ENTIRETY. THESE DRAWINGS WERE CREATED USING EXISTING AS-BUILT DRAWINGS AND FROM FIELD OBSERVATIONS. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT QUANTITY AND EXISTING CONDUIT ROUTING.
2. CONTRACTOR SHALL INCLUDE IN HIS BID THE DEMOLITION OF AN ADDITIONAL 5% OF FIRE ALARM DEVICES ATTRIBUTED TO FIELD CONDITIONS OR AS DIRECTED BY THE ARCHITECT OR ENGINEER.
3. CONTRACTOR SHALL COORDINATE PHASING OF CONSTRUCTION WITH OCCUPANCY OF BUILDING WITH OSU. FOR BIDDING PURPOSES, ASSUME THE BUILDING WILL BE OCCUPIED DURING CONSTRUCTION, AND THE EXISTING SYSTEM WILL NEED TO BE MAINTAINED UNTIL THE CONSTRUCTION OF THE NEW SYSTEM IS COMPLETE.

CODED NOTES

1. NO CONDUIT OR PENETRATIONS SHALL BE REMOVED FROM THIS ROOM.



REVISIONS

NO.	DATE	DESCRIPTION

OSU PROJECT NUMBER *OSU-250050*

MARION - MORRIL HALL FIRE PANEL / ELEVATOR UPGRADES

PREPARED FOR
THE OHIO STATE UNIVERSITY
FACILITIES OPERATIONS AND DEVELOPMENT
COLUMBUS, OHIO

PREPARED BY: *tel* 614 785.0505

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WELLOGY PROJ.NO.: 25022

PHASE:
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WWW.KORDA.COM

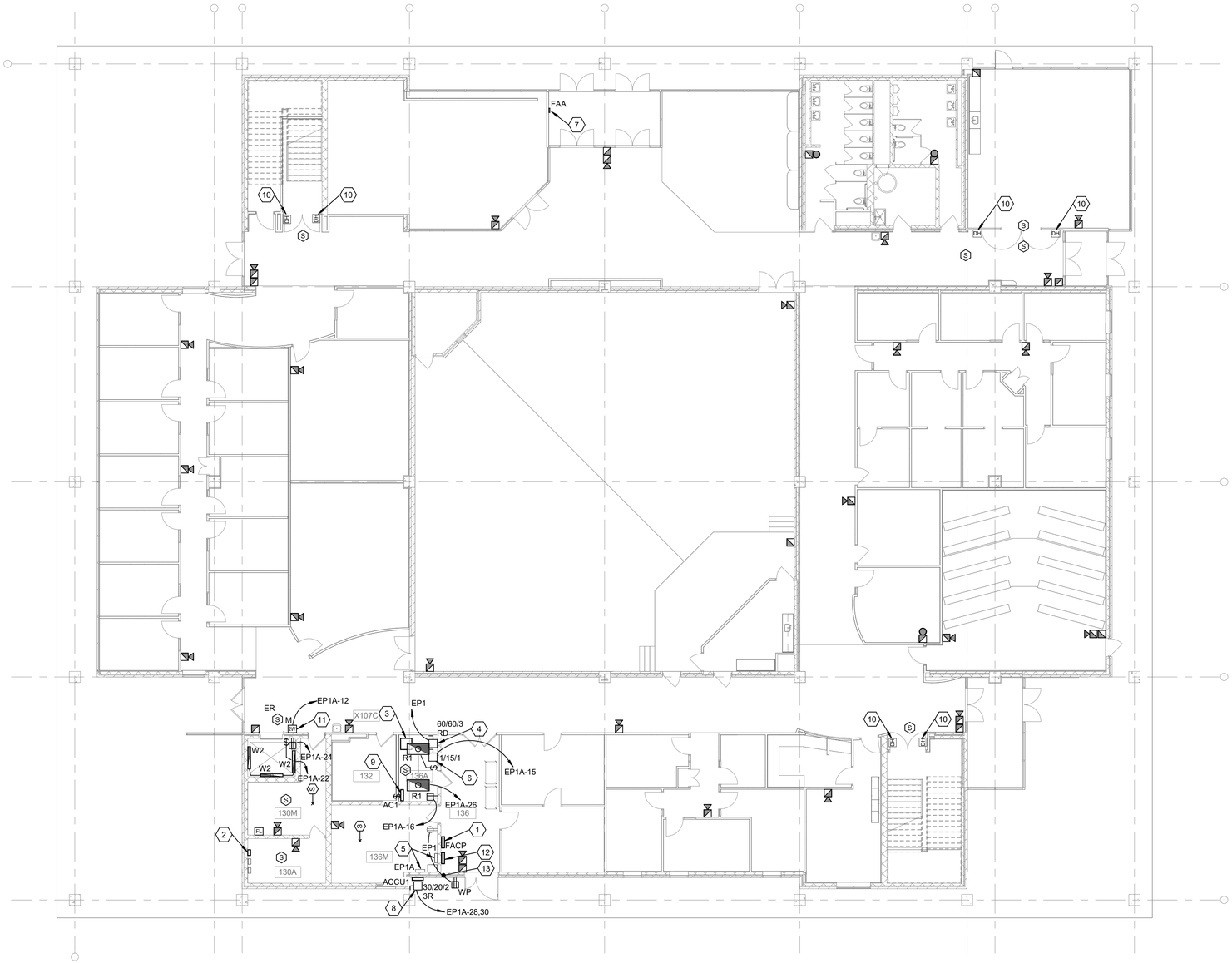
DRAWN BY:	Garrett Strauss
DESIGNED BY:	Brendon Yoder
CHECKED BY:	Stan Kmonk
PROJECT NUMBER:	2025-0308

STATE OF OHIO
STANLEY J. KMONK
E-81379
REGISTERED
PROFESSIONAL ENGINEER
07-17-2026

SHEET TITLE:
DEMOLITION PLAN - LEVEL 3 ALTERNATE

SHEET NO.:
E103A

ARCHIVED DRAWING NUMBER	DRAWN BY KORDA	DATE 7/17/2026	OF



6 FLOOR PLAN

NEW WORK POWER PLAN - LEVEL 1

SCALE: 3/32" = 1'-0"

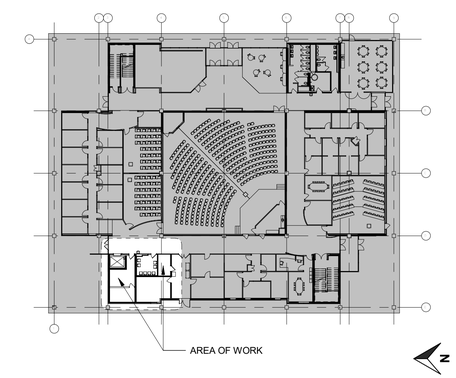
0' 2' 4' 12'

GENERAL NOTES

1. THE FIRE ALARM SYSTEM IN THIS BUILDING IS TO BE DESIGNATED DESIGN, TO BE PERFORMED BY NICET CERTIFIED TECHNICIAN. CONTRACTOR SHALL INCLUDE IN HIS BID THE PROCUREMENT AND INSTALLATION OF AN ADDITIONAL 5% OF FIRE ALARM DEVICES ATTRIBUTED TO FIELD CONDITIONS OR AS DIRECTED BY THE NICET CERTIFIED TECHNICIAN.
2. CONTRACTOR SHALL COORDINATE PHASING OF CONSTRUCTION WITH OCCUPANCY OF BUILDING WITH OSU. FOR BIDDING PURPOSES, ASSUME THE BUILDING WILL BE OCCUPIED DURING CONSTRUCTION, AND THE EXISTING SYSTEM WILL NEED TO BE MAINTAINED UNTIL THE CONSTRUCTION OF THE NEW SYSTEM IS COMPLETE.
3. ALL NEW FIRE ALARM CABLING SHALL BE IN CONDUIT.
4. CONTRACTOR IS RESPONSIBLE FOR REPAIR OF WALLS IMPACTED BY PROJECT. FINISHES AND WALL RATINGS SHALL MATCH EXISTING CONDITIONS.

CODED NOTES

1. NEW FIRE ALARM CONTROL PANEL. BASE BID: RECONNECT TO EXISTING THIRD FLOOR DEVICES. ALTERNATE #1: CONNECT TO NEW THIRD FLOOR DEVICES.
2. NEW FIRE ALARM COMMUNICATOR FOR THIS BUILDING. PROVIDE WIRED PHONE LINE. CONNECT TO EXISTING CAMPUS MONITORING SYSTEM.
3. NEW ELEVATOR MACHINE. PROVIDE FIRE ALARM RELAYS FOR FIREFIGHTER'S HELMET AND ELEVATOR RECALL.
4. RELOCATED ELEVATOR MACHINE DISCONNECT IN NEW MACHINE ROOM.
5. EXISTING PANEL TO REMAIN.
6. NEW DISCONNECT FOR ELEVATOR CAB LIGHTS.
7. NEW FIRE ALARM ANNUNCIATOR.
8. OUTDOOR UNIT FEEDS INDOOR UNIT AC1. CONNECT PER MANUFACTURER REQUIREMENTS.
9. INDOOR UNIT FED FROM OUTDOOR UNIT ACCU1. CONNECT PER MANUFACTURER REQUIREMENTS.
10. PROVIDE NEW FIRE ALARM CONNECTION TO EXISTING DOOR HARDWARE.
11. MASTER STATION FOR ELEVATOR 2-WAY COMMUNICATION. REFER TO 1/E703 FOR DETAILS.
12. PROVIDE NEW LENEL SECURITY PANEL. COORDINATE MODEL NUMBER WITH OWNER. PROVIDE 3 RELAYS FROM FIRE ALARM PANEL TO LENEL PANEL FOR SYSTEM MONITORING.
13. EXTEND EXISTING BRANCH CIRCUIT SERVING RECEPTACLES IN 136M TO NEW EXTERIOR RECEPTACLE.



REVISIONS

NO.	DATE	DESCRIPTION

OSU PROJECT NUMBER *OSU-250050*

MARION - MORRIL HALL FIRE PANEL / ELEVATOR UPGRADES

PREPARED FOR

THE OHIO STATE UNIVERSITY
FACILITIES OPERATIONS AND DEVELOPMENT
COLUMBUS, OHIO

PREPARED BY: *tel* 614 785.0505

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WELLOGY PROJ.NO.: 25022

PHASE:
BID / PERMIT DRAWINGS

KORDA
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WWW.KORDA.COM

DRAWN BY:	Garrett Strauss
DESIGNED BY:	Brendon Yoder
CHECKED BY:	Stan Kmonk
PROJECT NUMBER:	2025-0308

STATE OF OHIO
STANLEY J. KMONK
E-51379
REGISTERED PROFESSIONAL ENGINEER
07-17-2026

SHEET TITLE:
NEW WORK PLAN - LEVEL 1

SHEET NO.:
E201

ARCHIVED DRAWING NUMBER	DRAWN BY KORDA	DATE 7/17/2026	OF

GENERAL NOTES

1. THE FIRE ALARM SYSTEM IN THIS BUILDING IS TO BE DESIGNATED DESIGN, TO BE PERFORMED BY NICET CERTIFIED TECHNICIAN. CONTRACTOR SHALL INCLUDE IN HIS BID THE PROCUREMENT AND INSTALLATION OF AN ADDITIONAL 5% OF FIRE ALARM DEVICES ATTRIBUTED TO FIELD CONDITIONS OR AS DIRECTED BY THE NICET CERTIFIED TECHNICIAN.
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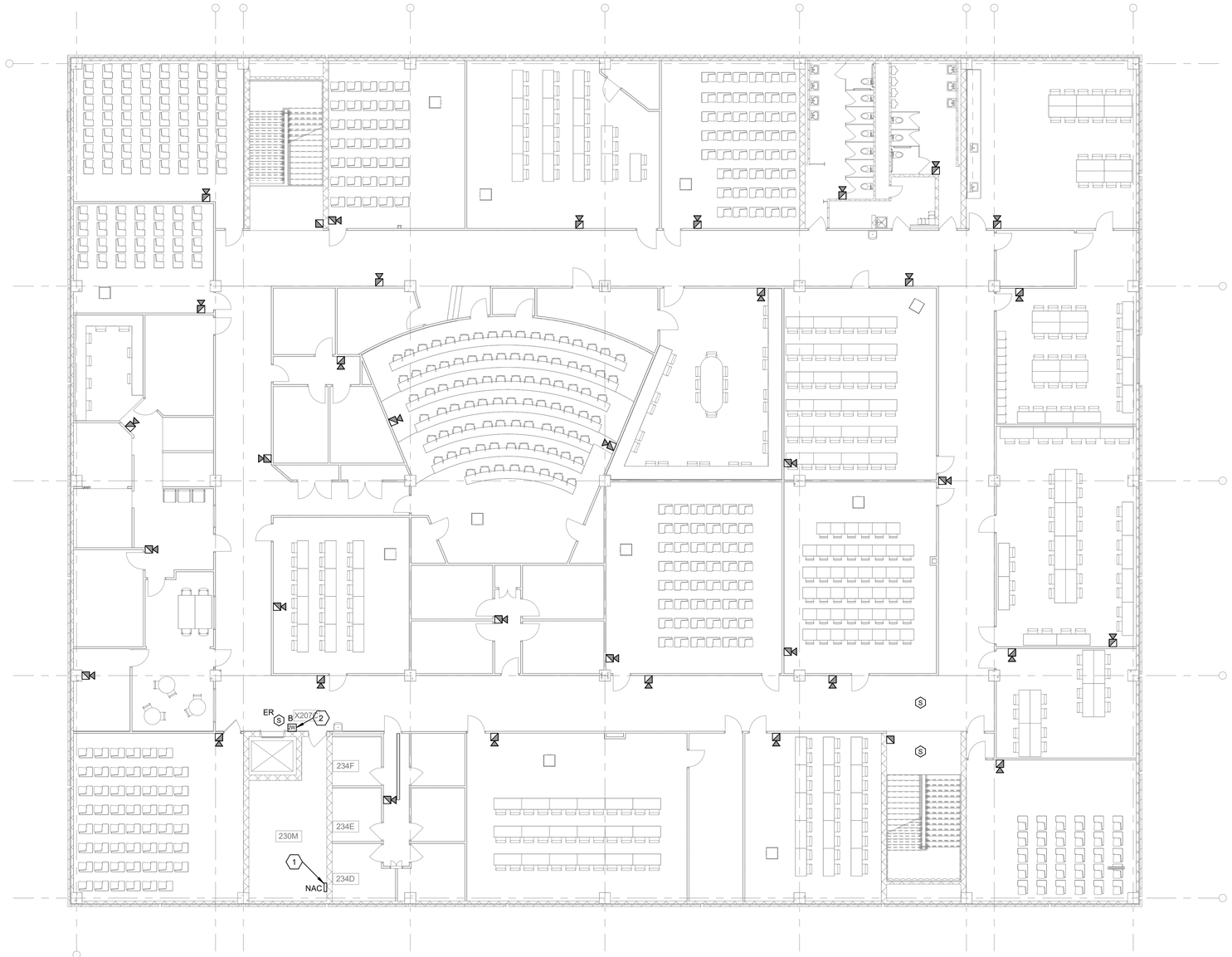
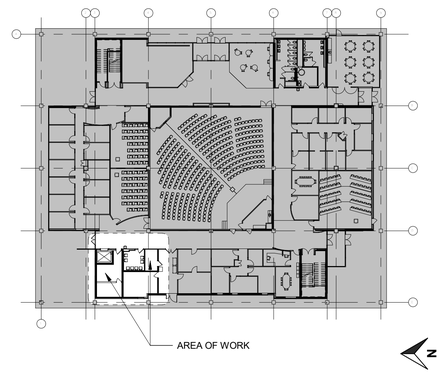
3. ALL NEW FIRE ALARM CABLING SHALL BE IN CONDUIT.
4. CONTRACTOR IS RESPONSIBLE FOR REPAIR OF WALLS IMPACTED BY PROJECT. FINISHES AND WALL RATINGS SHALL MATCH EXISTING CONDITIONS.

CODED NOTES

1. NEW FIRE ALARM EXTENDER PANEL.
2. BASE CALL STATION FOR ELEVATOR 2-WAY COMMUNICATION. REFER TO 1/E703 FOR DETAILS.





1 FLOOR PLAN

NEW WORK POWER PLAN - LEVEL 2

SCALE: 3/32" = 1'-0"
0' 2' 4' 12'

REVISIONS		
NO.	DATE	DESCRIPTION

OSU PROJECT NUMBER *OSU-250050*

MARION - MORRIL HALL FIRE PANEL / ELEVATOR UPGRADES

PREPARED FOR
THE OHIO STATE UNIVERSITY
FACILITIES OPERATIONS AND DEVELOPMENT
COLUMBUS, OHIO

PREPARED BY: *tel* 614 785.0505

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www.wellogydesign.com

WELLOGY PROJ.NO.: 25022

PHASE:
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SHEET TITLE:
NEW WORK PLAN - LEVEL 2

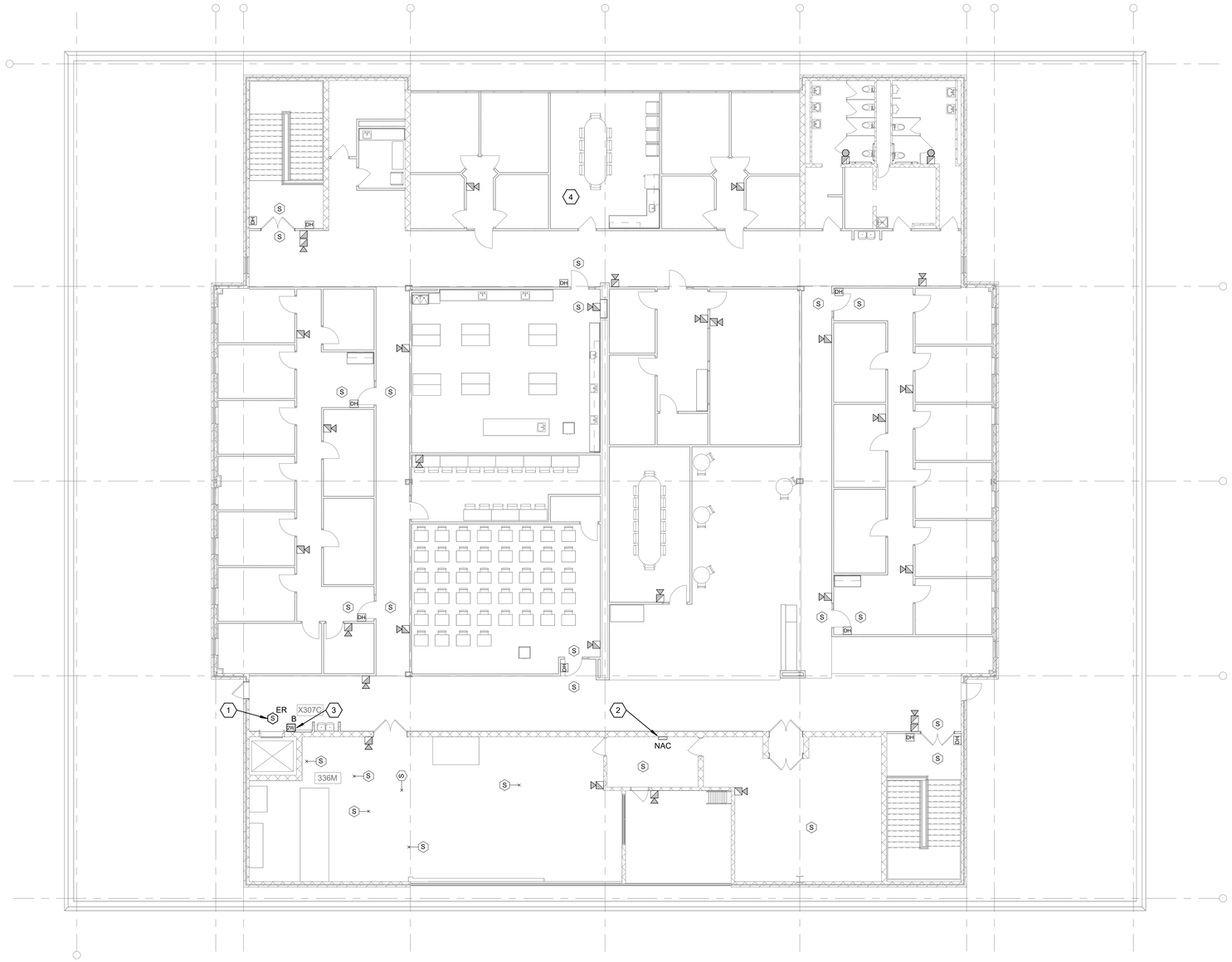
SHEET NO.:
E202

ARCHIVED DRAWING NUMBER	DRAWN BY KORDA	DATE 7/17/2026	OF

KORDA

KORDA: NEMETH ENGINEERING	
WWW.KORDA.COM	
DRAWN BY:	Garrett Strauss
DESIGNED BY:	Brendon Yoder
CHECKED BY:	Stan Kmonk
PROJECT NUMBER:	2025-0308

STATE OF OHIO
STANLEY J. KMONK
E-81379
REGISTERED PROFESSIONAL ENGINEER
07-17-2026



1 FLOOR PLAN

NEW WORK POWER PLAN - LEVEL 3

SCALE: 3/32" = 1'-0"

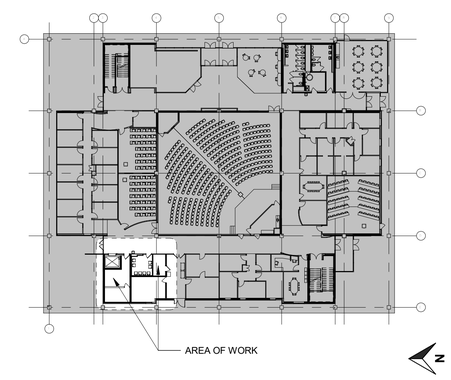
0' 2' 4' 12'

GENERAL NOTES

1. THE FIRE ALARM SYSTEM IN THIS BUILDING IS TO BE DESIGNATED DESIGN, TO BE PERFORMED BY NICET CERTIFIED TECHNICIAN. CONTRACTOR SHALL INCLUDE IN HIS BID THE PROCUREMENT AND INSTALLATION OF AN ADDITIONAL 5% OF FIRE ALARM DEVICES ATTRIBUTED TO FIELD CONDITIONS OR AS DIRECTED BY THE NICET CERTIFIED TECHNICIAN.
2. BASE BID SCOPE OF WORK: FIRE ALARM MANUFACTURER SHALL MATCH EXISTING SYSTEM IN THE BUILDING (EST). UNLESS NOTED OTHERWISE, IT IS THE INTENT THAT ALL FIRE ALARM DEVICES, WIRING, CONDUITS, ETC., ON THIS FLOOR SHALL REMAIN, AND BE RECONNECTED TO THE NEW FIRE ALARM SYSTEM. THESE DRAWINGS WERE CREATED USING EXISTING AS-BUILT DRAWINGS AND FROM FIELD OBSERVATIONS.
3. CONTRACTOR SHALL COORDINATE PHASING OF CONSTRUCTION WITH OCCUPANCY OF BUILDING WITH OSU. FOR BIDDING PURPOSES, ASSUME THE BUILDING WILL BE OCCUPIED DURING CONSTRUCTION, AND THE EXISTING SYSTEM WILL NEED TO BE MAINTAINED UNTIL THE CONSTRUCTION OF THE NEW SYSTEM IS COMPLETE.
4. ALL NEW FIRE ALARM CABLING SHALL BE IN CONDUIT.
5. CONTRACTOR IS RESPONSIBLE FOR REPAIR OF WALLS IMPACTED BY PROJECT. FINISHES AND WALL RATINGS SHALL MATCH EXISTING CONDITIONS.

CODED NOTES

1. NEW SMOKE DETECTOR FOR ELEVATOR RECALL.
2. EXISTING EXTENDER PANEL TO REMAIN. RECONNECT TO NEW MAIN CONTROL PANEL ON 1ST FLOOR.
3. BASE CALL STATION FOR ELEVATOR 2-WAY COMMUNICATION. REFER TO 1/E703 FOR DETAILS.
4. NO NEW CONDUIT OR PENETRATIONS SHALL BE MADE INTO THIS ROOM.



REVISIONS

NO.	DATE	DESCRIPTION

OSU PROJECT NUMBER *OSU-250050*

MARION - MORRIL HALL FIRE PANEL / ELEVATOR UPGRADES

PREPARED FOR

THE OHIO STATE UNIVERSITY
FACILITIES OPERATIONS AND DEVELOPMENT
COLUMBUS, OHIO

PREPARED BY: *tel* 614 785.0505

wellogy designing for life

6767 Longshore Street, Suite 540 · Dublin, OH 43017
www.wellogydesign.com

WELLOGY PROJ.NO.: 25022

PHASE: BID / PERMIT DRAWINGS

KORDA
KORDA NEMETH ENGINEERING
WWW.KORDA.COM

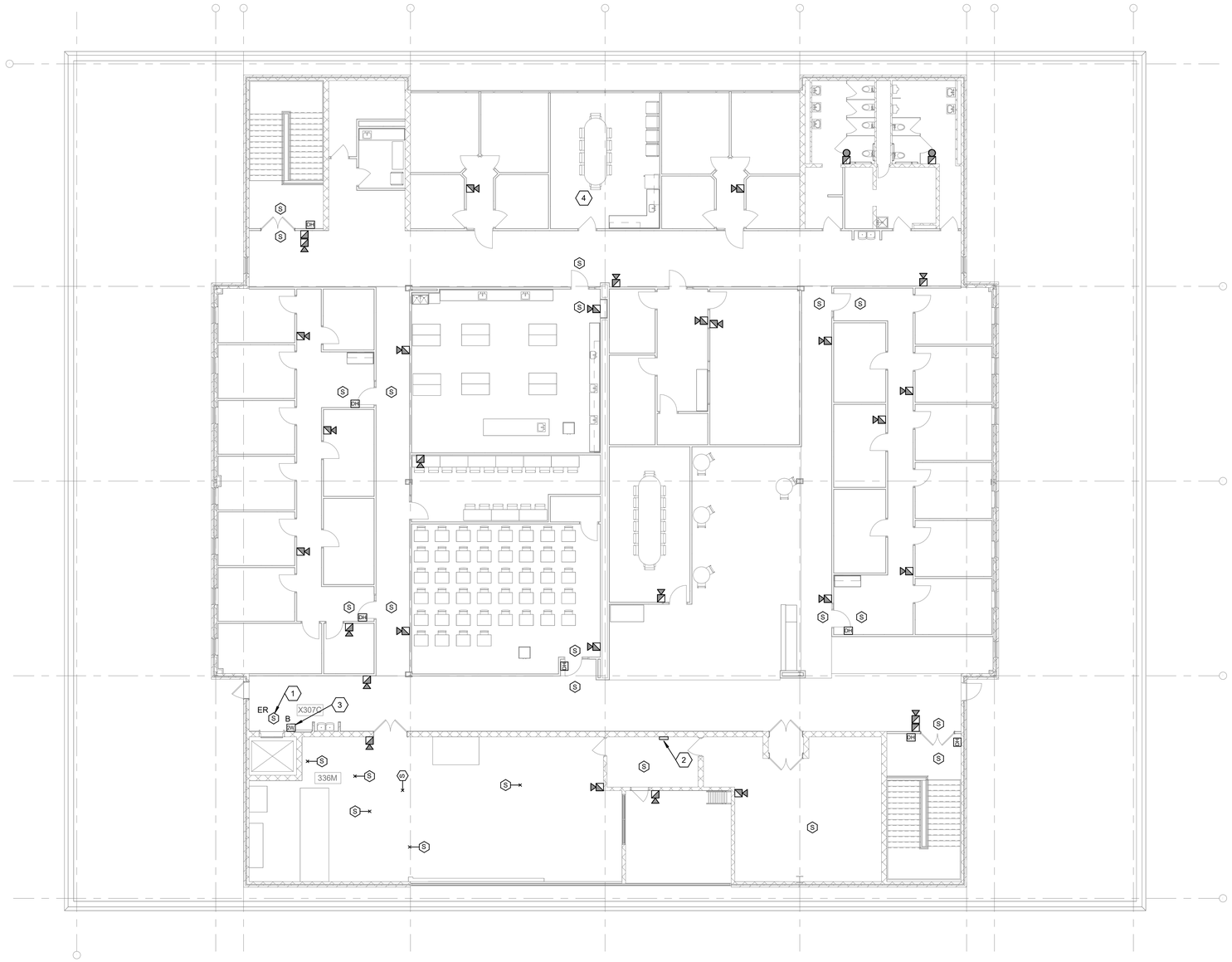
DRAWN BY:	Garrett Strauss
DESIGNED BY:	Brendon Yoder
CHECKED BY:	Stan Kmonk
PROJECT NUMBER:	2025-0308

STATE OF OHIO
STANLEY J. KMONK
E-81379
REGISTERED PROFESSIONAL ENGINEER
07-17-2026

SHEET TITLE: NEW WORK PLAN - LEVEL 3

SHEET NO.: E203

ARCHIVED DRAWING NUMBER	DRAWN BY KORDA	DATE 7/17/2026	OF



1 FLOOR PLAN

NEW WORK POWER PLAN - LEVEL 3 Copy 1

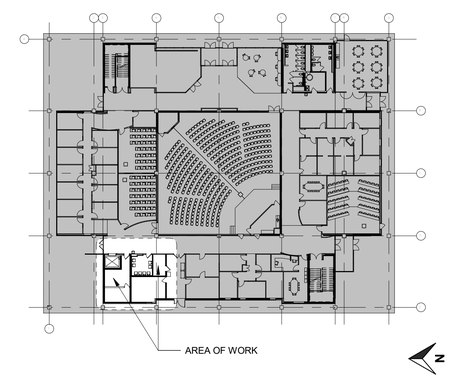
SCALE: 3/32" = 1'-0"
0' 2' 4' 12'

GENERAL NOTES

1. ALTERNATE #1: PROVIDE NEW FIRE ALARM DEVICES ON THIS FLOOR AS SHOWN.
2. THE FIRE ALARM SYSTEM IN THIS BUILDING IS TO BE DESIGNATED DESIGN, TO BE PERFORMED BY NICET CERTIFIED TECHNICIAN. CONTRACTOR SHALL INCLUDE IN HIS BID THE PROCUREMENT AND INSTALLATION OF AN ADDITIONAL 5% OF FIRE ALARM DEVICES ATTRIBUTED TO FIELD CONDITIONS OR AS DIRECTED BY THE NICET CERTIFIED TECHNICIAN.
3. CONTRACTOR SHALL COORDINATE PHASING OF CONSTRUCTION WITH OCCUPANCY OF BUILDING WITH OSU. FOR BIDDING PURPOSES, ASSUME THE BUILDING WILL BE OCCUPIED DURING CONSTRUCTION, AND THE EXISTING SYSTEM WILL NEED TO BE MAINTAINED UNTIL THE CONSTRUCTION OF THE NEW SYSTEM IS COMPLETE.
4. ALL NEW FIRE ALARM CABLING SHALL BE IN CONDUIT.
5. CONTRACTOR IS RESPONSIBLE FOR REPAIR OF WALLS IMPACTED BY PROJECT. FINISHES AND WALL RATINGS SHALL MATCH EXISTING CONDITIONS.

CODED NOTES

1. NEW SMOKE DETECTOR FOR ELEVATOR RECALL.
2. NEW FIRE ALARM EXTENDER PANEL.
3. BASE CALL STATION FOR ELEVATOR 2-WAY COMMUNICATION. REFER TO 1/E703 FOR DETAILS.
4. NO NEW CONDUIT OR PENETRATIONS SHALL BE MADE INTO THIS ROOM.



REVISIONS

NO.	DATE	DESCRIPTION

OSU PROJECT NUMBER *OSU-250050*

MARION - MORRIL HALL FIRE PANEL / ELEVATOR UPGRADES

PREPARED FOR
THE OHIO STATE UNIVERSITY
FACILITIES OPERATIONS AND DEVELOPMENT
COLUMBUS, OHIO

KORDA
KORDA/NEMETH ENGINEERING
WWW.KORDA.COM
DRAWN BY: Garrett Strauss
DESIGNED BY: Brendon Yoder
CHECKED BY: Stan Kmonk
PROJECT NUMBER: 2025-0308

STATE OF OHIO
STANLEY J. KMONK
E-81379
REGISTERED PROFESSIONAL ENGINEER
07-17-2026

PREPARED BY: *tel* 614 785.0505
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WELLOGY PROJ.NO.: 25022
PHASE: BID / PERMIT DRAWINGS

SHEET TITLE: NEW WORK PLAN - LEVEL 3 ALTERNATE

SHEET NO.: E203A

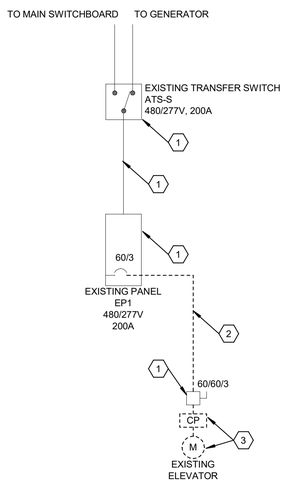
ARCHIVED DRAWING NUMBER	DRAWN BY KORDA	DATE 7/17/2026	OF

INTERIOR LUMINAIRE SCHEDULE

B: BOLLARD C: CEILING CV: COVE G: GROUND P: POLE R: RECESSED S: SUSPENDED T: TRACK UC: UNDERCABINET W: WALL X: UNIVERSAL

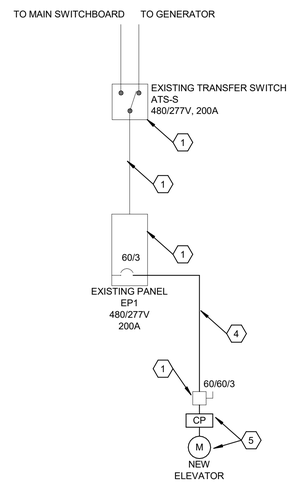
PARTIAL MODEL NUMBERS MAY BE SHOWN AND ARE INTENDED TO INDICATE ACCEPTABLE MANUFACTURER'S PRODUCT LINE. EXACT MODEL NUMBERS MEETING THE FIXTURE DESCRIPTION SHALL BE OBTAINED FROM THE MANUFACTURER'S AGENTS. ALL FIXTURES MAY NOT BE USED - REFER TO PLANS. DIMENSIONS MAY VARY. REFER TO THE SPECIFICATIONS SECTIONS 26 51 13 FOR ADDITIONAL REQUIREMENTS. REFER TO DRAWINGS FOR FIXTURES CIRCUITED AND CONTROL.

TAG	MANUFACTURER	SERIES	DIMENSIONS (W x L x D)	DESCRIPTION	SOURCE	VOLTAGE	WATTAGE	COLOR TEMP	LUMENS	DIMMING	HOUSING	MOUNTING	LENS	FINISH/TRIM	OPTIONS	SPARES	APPROVED MANUFACTURERS
R1	LITHONIA	CPX	4" X 4' X 2"	RECESSED FLAT PANEL	LED	UNV	38	4000K	4000	0-10V	ALUMINUM	RECESSED	FROSTED ACRYLIC	WHITE		2 LED BOARDS, 2 DRIVERS	DAY-BRITE FPZ, METALUX CGT, COLUMBIA CBT24-LSCS
W2	LITHONIA	FEM	7" X 51" X 4.5"	GASKETED INDUSTRIAL	LED	UNV	69	5000K	8000	0-10V	FIBERGLASS	WALL OR SURFACE	ACRYLIC, LINEAL RIBBED FROSTED	WHITE	WIDE DISTRIBUTION	2 LED BOARDS, 2 DRIVERS	DAYBRITE DWAE METALUX VT2 COLUMBIA LXEM



A WIRING DIAGRAM

PARTIAL EXISTING ONE LINE N.T.S.



B WIRING DIAGRAM

PARTIAL NEW ONE LINE N.T.S.

Existing Panel Name: EP1A

Location:	136M	**Volts:**	120/208 Wye	**Mains Type:**	MCB
Supply From:		**Phases:**	3	**Mains Rating:**	100.00 A
Mounting:	Surface	**Wires:**	4	**MCB Rating:**	100.00 A

Legend:
E - EXISTING CIRCUIT TO REMAIN
M - PROIVDE NEW BREAKER, MATCH EXISTING MANUFACTURER AND KAIC RATING
N - NEW LOAD ON EXISTING BREAKER

Notes:

Note	Ø Size	Branch Circuit Description	Trip	#	A	B	C	#	Trip	Branch Circuit Description	Ø Size	Note
E		REC RM 138	20 A	1	1 / 1			2	20 A	REC. RM 138		E
E		2ND FL. TEMP. CONTROL PNL	20 A	3		1 / 1		4	20 A	3RD FL. TEMP. CONTROL PNL.		E
E		(R) APC 298 IT ROOM	20 A	5,7	1 / 1		1 / 1	6,8	20 A	(R) UPS RM 200D		E
E		(R) EXISTING LOAD	20 A	9		1 / 1		10	20 A	(R) DOCK REC.		E
E		(R) 136A REC.	20 A	11			1 / 0.5	12	**20 A**	**ELEVATOR 2 WAY COMMS**	**#12**	**N**
E		(R) WATER PRESSURE PUMP	30 A	13	1 / 1			14	20 A	(R) TELEPHONE REC.		E
N	**#12**	**ELEVATOR CAB LTG**	**20 A**	15		0 / 0.18		16	**20 A**	**REC MACHINE ROOM**	**#12**	**N**
E		SPARE	20 A	17			0 / 0	18,20	30 A	SPARE		E
E		SPARE	30 A	19,21	0 / 0							
						0 / 0.24		22	**20 A**	**ELEVATOR PIT LIGHTING**	**#12**	**M**
E		SPACE	--	23			0 / 0.18	24	**20 A**	**ELEVATOR PIT RECEPT**	**#12**	**M**
E		SPACE	--	25	0 / 0.08			26	**20 A**	**LIGHTING 136A**	#12	**M**
E		SPACE	--	27		0 / 1.5		28,30	**20 A**	**ACCU1**	**#12**	**M**
E		SPACE	--	29			0 / 1.5					
E		SPACE	--	31	0 / 0			32	--	SPACE		E
E		SPACE	--	33		0 / 0		34	--	SPACE		E
E		SPACE	--	35			0 / 0	36	--	SPACE		E
E		SURGE PROTECTION	30 A	37,39,41	1 / 0			38	--	SPACE		E
						1 / 0		40	--	SPACE		E
							1 / 0	42	--	SPACE		E
				Phase Total KVA:	7.08	6.92	6.18					
				Phase Total Amps:	59.95	58.62	51.50					

Load Classification	Connected Load	NEC Demand Factor	NEC Demand	Panel Summary	
LIGHTING	0.32 kVA	125.00%	0.40 kVA		
RECEPTACLE & MISC	0.86 kVA	100.00%	0.86 kVA	**Total Conn. Load:**	20.18 kVA
MOTOR	3.00 kVA	125.00%	3.75 kVA	**Total Est. Demand:**	21.01 kVA
HEATING	0.00 kVA	0.00%	0.00 kVA	**Total Conn.:**	56.01 A
EXISTING	16.00 kVA	100.00%	16.00 kVA	**Total Est. Demand:**	58.32 A

CODED NOTES

1. EXISTING TO REMAIN.
2. EXISTING ELEVATOR FEEDER TO BE REMOVED.
3. EXISTING ELEVATOR CONTROLLER AND MACHINE TO BE REMOVED.
4. PROVIDE NEW ELEVATOR FEEDER. 3- #4 AWG, 1- #4 AWG GND IN 1" CONDUIT.
5. NEW ELEVATOR CONTROLLER AND MACHINE.

REVISIONS

NO.	DATE	DESCRIPTION

OSU PROJECT NUMBER *OSU-250050*

MARION - MORRIL HALL FIRE PANEL / ELEVATOR UPGRADES

PREPARED FOR
THE OHIO STATE UNIVERSITY
FACILITIES OPERATIONS AND DEVELOPMENT
COLUMBUS, OHIO

KORDA
KORDA NEMETH ENGINEERING
WWW.KORDA.COM
DRAWN BY: Garrett Strauss
DESIGNED BY: Brendon Yoder
CHECKED BY: Stan Kmonk
PROJECT NUMBER: 2025-0308

STATE OF OHIO
STANLEY J. KMONK
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REGISTERED PROFESSIONAL ENGINEER
07-17-2026

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WELLOGY PROJ.NO.: 25022

PHASE:
BID / PERMIT DRAWINGS

SHEET TITLE:
ELECTRICAL SCHEDULES

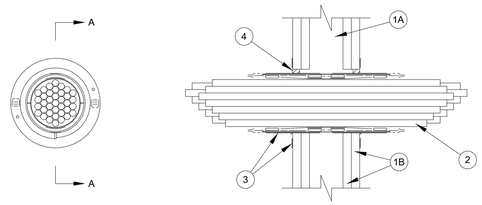
SHEET NO.:
E501

ARCHIVED DRAWING NUMBER	DRAWN BY	DATE	OF
	KORDA	7/17/2026	

System No. W-L-3334

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

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1, 2, 3 and 4 Hr (See Item 1)	F Ratings - 1, 2, 3 and 4 Hr (See Item 1)
T Ratings - 0, 1, 1-3/4, 2, 3 and 4 Hr (See Items 2 and 3)	FT Ratings - 0, 1, 1-3/4, 2, 3 and 4 Hr (See Items 2 and 3)
L Rating At Ambient - Less Than 1 CFM (See Item 2)	FH Ratings - 1, 2, 3 and 4 Hr (See Item 1)
L Ratings At 400 F - 1 and Less Than 1 CFM (See Item 2)	FTH Ratings - 0, 1, 1-3/4, 2, 3 and 4 Hr (See Items 2 and 3)
	L Rating At Ambient - Less Than 1 CFM (See Item 2)
	L Ratings At 400 F - 1 and Less Than 1 CFM (See Item 2)



SECTION A-A

1. Wall Assembly — The 1, 2, 3 or 4 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described within the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:
   A. Studs — Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC for 1 and 2 hr wall assemblies. Steel Studs to be 3-5/8 in. (92 mm) for 3 and 4 hr wall assemblies.
   B. Gypsum Board* — Nom 5/8 in. (16 mm) thick gypsum board as specified in the individual Wall and Partition Design. Opening in gypsum board to be max 2-1/2 in. (64 mm) diam for 2" device and max 4-1/2 in. (114 mm) diam for 4" device.
   The hourly F and FH Ratings of the firestop system are dependent upon the hourly rating of the wall in which it is installed.
2. Cables — Within the loading area for each firestop device, the cables may represent a 0 to 100 percent visual fill. Cables to be tightly bundled within the device and rigidly supported on both sides of wall assembly. Any combination of the following types of cables may be used:
   A. Max 100 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with polyvinyl chloride (PVC) jacketing and insulation.
   B. Max 7/C No. 12 AWG copper conductor control cable with PVC or XLPE jacket and insulation.
   C. Max 4/0 AWG Type RHH ground cable.
   D. Max 4 pr No. 22 AWG Cat 5 or Cat 6 computer cables.
   E. Max RG 6/U coaxial cable with fluorinated ethylene insulation and jacketing.
   F. Fiber optic cable with polyvinyl chloride (PVC) or polyethylene (PE) jacket and insulation having a max diam of 1/2 in. (13 mm).
   G. Max 20/C No. 22 AWG shielded printer cable with PVC jacket.
   H. Through-Penetrating Product* - Two copper conductors No. 18 AWG (or smaller) Power or Non Power Limited Fire Alarm Cable with or without a jacket under a metal armor.
   AFC CABLE SYSTEMS INC
   I. Max. 1/4 in. (6 mm) diameter S-Video Cable consisting of 2 max 24 AWG 75 ohm coax or twisted pair cable with PE insulation and PVC jacket .
   J. Max 3/C No 12 AWG MC Cable.
   K. Through Penetrating Product* — Any cables, Armored Cable+ or Metal Clad Cable+ currently Classified under the Through Penetrating Product category. See Through Penetrating Product (XHLY) category in the Fire Resistance Directory for names of manufacturers.

For opening with cables, when the hourly rating of the wall assembly is 1 hr, the T, FT and FTH Ratings are 0 hr. For opening with cables, when the hourly rating of the wall assembly is 2 hr, the T, FT and FTH Ratings are 1-3/4 hr except that, when Item 2C, 2G, 2I, 2J or 2K is used, the T, FT and FTH Ratings are 1 hr for 2C, 2 OR 2I and the T, FT and FTH Ratings are 1/2 hr for 2J or 2 K (see Item 3 also). When the hourly rating of the wall assembly is 3 or 4 hr, the T, FT and FTH Ratings are 2 hr. For wall assemblies with a 3 or 4 hr rating, Items 2G and 2I are not to be used.

L Ratings apply only when device flanges and CP 606 or FS-One Sealant are used. See Table below for L Ratings.

Max Cable Fill	Cable Type	L Rating, CFM/Sq Ft		L Rating, CFM	
		Ambient	400°F	Ambient	400°F
0%	-	Less Than 1	Less Than 1	Less Than 1	Less Than 1
100%	Item 2D only	5	1	Less Than 1	Less Than 1
100%	Any cables (Item 2) in any combination	9	10	Less Than 1	1

3. Firestop Device* — Firestop device consists of a corrugated steel tube with an inner plastic housing, intumescent material rings and twisted inner fabric smoke seal. Firestop device to be installed in accordance with the accompanying installation instructions. As an option, the inner fabric seal may remain open except that, to attain the L Rating, the inner fabric seal shall be twisted to completely close off the opening within device. Device slid into wall such that ends project an equal distance from the approximate centerline of the wall assembly. The annular space between the device and the periphery of the opening shall be min 0 in. (point contact). Device provided with flanges that are spun clockwise onto device threads, butting tightly to both sides of wall. Device flanges are optional. When the device flanges are not used, the T, FT and FTH Ratings for the firestop system are 0 hr. For blank opening (no cables), the T, FT and FTH Ratings for the firestop system equal the F and FH Ratings only when the device flanges are used.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 653 2" Speed Sleeve and CP 653 4" Speed Sleeve
4. Fill, Void or Cavity Material* - Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus between firestop device and wall, flush with both surfaces of wall, and an additional 1/4 in. (6 mm) bead applied around periphery of device. When device flanges are used, gypsum drywall compound may be used in place of the fill material.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE or CP 606 Sealant

*Bearing the UL Classification Mark

Hilti Firestop Systems

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1 DETAIL

UL LISTED THROUGH WALL PENETRATION

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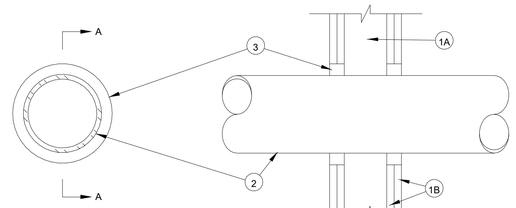
System No. W-L-1054

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

F Ratings - 1 and 2 Hr (See Items 1 and 3)
T 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. Wall Assembly -- The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs -- Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* -- 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. for steel stud walls. Max diam of opening is 14-1/2 in. for wood stud walls. The F Rating of the firestop system is equal to the fire rating of the wall assembly.
2. Through-Penetrants -- One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. Pipe may be installed with continuous point contact. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe -- Nom 30 in diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe -- Nom 30 in. diam (or smaller) cast or ductile iron pipe.
   C. Conduit -- Nom 4 in diam (or smaller) steel electrical metallic tubing or 6 in. diam steel conduit.
   D. Copper Tubing -- Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe -- Nom 6 in. diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* -- Sealant -- Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall .

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-One Sealant
*Bearing the UL Classification Mark

Hilti Firestop Systems

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2 DETAIL

UL LISTED THROUGH WALL PENETRATION

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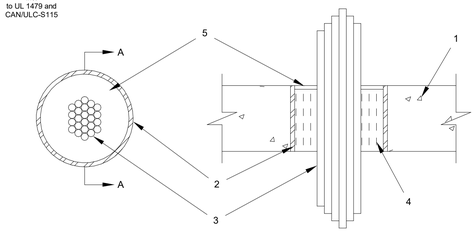
System No. C-AJ-3180

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

F Rating - 3 Hr
T Rating = 0 Hr



SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600 2400 kg/m3) concrete floor or min 4-3/4 in. (121 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. Steel Sleeve — (Optional) — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces.
3. Cables — Aggregate cross-sectional area of cables in opening to be 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) j Jacket.
   B. Max 300 pair No. 24 AWG copper conductor telecommunication cables with polyvinyl chloride (PVC) insulation and jacket material.
   C. Max 7/C copper conductor No. 12 AWG multiconductor power and control cables with polyvinyl chloride (PVC) or cross-linked polyethylene (XLPE) insulation and PVC jacket.
   D. Multiple fiber optical communication cables jacketed with PVC and having a max outside diam of 1/2 in. (13 mm).
   E. Max 3/C copper conductor No. 12 AWG with bare aluminum ground, polyvinyl chloride (PVC) insulated steel, Metal-clad cable.
   F. Max 3/C with ground 2/0 AWG copper conductor SER cable with cross-linked polyethylene (XLPE) insulation and polyvinyl chloride (PVC) jacket.
   G. RG/U coaxial cable with polyethylene (PE) insulation and polyvinyl chloride (PVC) jacket having a max outside diameter of ½ in. (13 mm)
   H. 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 types of cable.
4. Packing Material — Min 4-1/4 in. (108 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.
5. Fill, Void or Cavity Material* — Sealant — Min 1/4 in. (6.4 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant.
*Bearing the UL Classification Mark

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. October 23, 2006

3 DETAIL

UL LISTED THROUGH WALL PENETRATION

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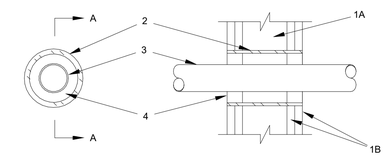
System No. W-L-2075

Underwriters Laboratories, Inc. to UL 1479

F Ratings - 1 & 2 Hr (See Item 4)
T Ratings - 0 and 2 Hr (see Item 4)
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 -- The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs -- Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
B. Gypsum Board* -- Nom 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Design. Max diam of opening is 4 in.
2. Metallic Sleeve -- (Optional) -- Nom 4 in. diam (or smaller) Schedule 40 (or thinner) steel pipe cast into wall assembly with joint compound and installed flush with wall surfaces.
3. Electrical Nonmetallic Tubing+ -- Nom 2 in. diam (or smaller) corrugated wall electrical nonmetallic tubing (ENT) constructed of polyvinyl chloride (PVC). Tubing to be rigidly supported on both sides of wall assembly. A nom annular space of 3/4 in. is required within the firestop system.
See Electrical Nonmetallic Tubing (FKHU) category in the Electrical Construction Materials Directory for names of manufacturers.
4. Fill, Void or Cavity Material* -- Sealant -- Installed symmetrically on both sides of the wall. The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. Fill material applied within the annulus, flush with each end of the steel sleeve at the thickness shown in the table below:

F Rating Hr	T Rating Hr	Fill Mtl Depth In.
1	0	5/8
2	2	1-1/4

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-One Sealant
+Bearing the UL Listing Mark
*Bearing the UL Classification Marking

Hilti Firestop Systems

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4 DETAIL

UL LISTED THROUGH WALL PENETRATION

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REVISIONS

NO.	DATE	DESCRIPTION

OSU PROJECT NUMBER *OSU-250050*

MARION - MORRIL HALL FIRE PANEL / ELEVATOR UPGRADES

PREPARED FOR
THE OHIO STATE UNIVERSITY
FACILITIES OPERATIONS AND DEVELOPMENT
COLUMBUS, OHIO

KORDA
KORDA. NEMETH ENGINEERING
WWW.KORDA.COM
DRAWN BY: Garrett Strauss
DESIGNED BY: Brendon Yoder
CHECKED BY: Stan Kmonk
PROJECT NUMBER: 2025-0308

STATE OF OHIO
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07-17-2026

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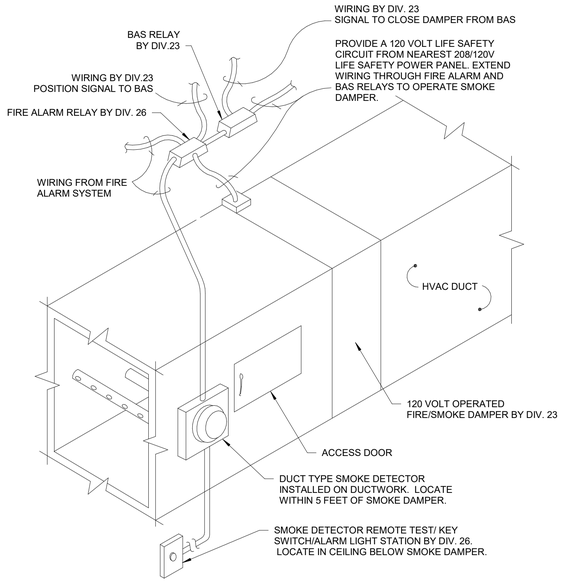
WELLOGY PROJ.NO.: 25022
PHASE: BID / PERMIT DRAWINGS

SHEET TITLE: ELECTRICAL DETAILS

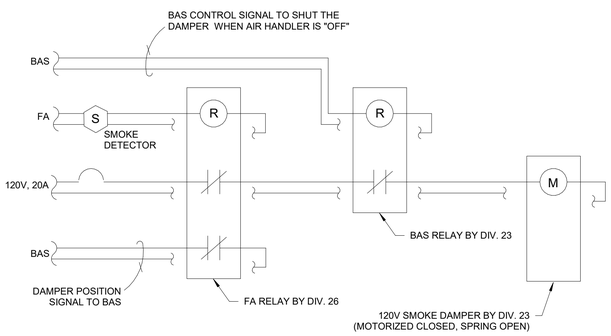
SHEET NO.: E701

ARCHIVED DRAWING NUMBER	DRAWN BY	DATE	OF
	KORDA	7/17/2026	



GENERAL NOTES

1. SMOKE DAMPER SHALL SPRING CLOSED WHEN AHU IS "OFF", OR SMOKE IS DETECTED WITHIN DUCT. SMOKE DAMPER SHALL BE ENERGIZED OPEN ANY OTHER TIME.



1 DETAIL

DUCT SMOKE DETECTOR TO OPERATE SMOKE DAMPER

N.T.S.

	CONTROL UNIT AND ANNUNCIATORS								NOTIFICATION AND CONTROL								ELEVATOR CONTROL				MANUAL ACTION AND AUDIO CONTROL							
SYSTEM INPUTS	ACTUATE COMMON ALARM SIGNALLED AT FACP AND ANNUNCIATORS	ACTUATE AUDIBLE ALARM SIGNAL AT FACP AND ANNUNCIATORS	ACTUATE COMMON SUPERVISORY SIGNAL LED AT FACP AND ANNUNCIATORS	ACTUATE AUDIBLE SUPERVISORY SIGNAL AT FACP AND ANNUNCIATORS	ACTUATE COMMON TROUBLE SIGNAL LED AT FACP AND ANNUNCIATORS	ACTUATE AUDIBLE COMMON TROUBLE SIGNAL AT FACP AND ANNUNCIATORS	TRANSMITS SIGNAL TO CENTRAL MONITORING SERVICE	ACTUATE APPROPRIATE SPEAKERS AND STROBES	ANNUNCIATE AT CORRIDOR LIGHT AND NURSE CALL MASTER STATION	CLOSE MAGNETICALLY HELD OPEN DOORS	CLOSE APPROPRIATE DAMPERS	SHUT DOWN APPROPRIATE AIR HVAC HANDLERS	ACTUATE STARWELL PRESSURIZATION FANS	ACTUATE WON DOOR ELECTRIC RELEASE	AUTOMATICALLY UNLOCKS ALL ELEVATORS	RECALLS ELEVATORS TO PRIMARY RECALL FLOOR	RECALLS ELEVATORS TO SECONDARY RECALL FLOOR	ACTUATES SHUNT TRIP BREAKER FOR APPROPRIATE ELEVATOR CABS	ACTUATES FIRE HAT LIGHT IN APPROPRIATE ELEVATOR HOISTWAY VENTS	ACTUATES NORMALLY CLOSED ELEVATOR HOISTWAY VENT	ACTUATES OR SHUTS DOWN SELECTED STAIRWAY PRESSURIZATION FAN	OPENS OR CLOSES SELECTED DAMPERS	ACTUATES OR SHUTS DOWN SELECTED HVAC FAN	OPENS OR CLOSES SELECTED ELEVATOR HOISTWAY VENT	MANUALLY UNLOCKS SELECTED ELEVATOR HOISTWAY VENT	TURN ON OR OFF SELECTED ELECTRICALLY LOCKED STAIRWAY DOORS	ACTUATE APPROPRIATE SPEAKER ZONE	ACTUATE APPROPRIATE FIREMENS PHONE CIRCUIT	ACTUATE LIVE MICROPHONE ANNOUNCEMENTS
PULL STATIONS	●	●					●	●					●		●													
CORRIDOR SMOKE DETECTORS	●	●					●	●					●		●													
PATIENT ROOM SMOKE DETECTORS			●	●					●																			
ELEVATOR LOBBY SMOKE DETECTORS 1ST FLOOR	●	●					●	●					●		●		●		●	●								
ELEVATOR LOBBY SMOKE DETECTORS ALL OTHER FLOORS	●	●					●	●					●		●	●			●	●								
ELEVATOR HOISTWAY SMOKE DETECTORS	●	●					●	●					●		●	●				●								
ELEVATOR MACHINE ROOM SMOKE DETECTOR	●	●					●	●					●		●	●			●	●								
SMOKE DETECTOR AT PRESSURIZED STAIR DOOR	●	●					●	●					●		●													
SMOKE DETECTOR IN PRESSURIZED STAIRWAY	●	●					●	●					●		●													
SMOKE DETECTORS AT WON DOOR	●	●					●	●					●	●	●													
SMOKE DETECTORS AT HOLD OPEN DOORS	●	●					●	●		●			●		●													
DUCT SMOKE DETECTOR	●	●					●	●				●	●		●													
AREA SMOKE DETECTOR FOR DAMPER CONTROL	●	●					●	●			●	●	●		●													
HEAT DETECTOR IN MECH/ELEC ROOMS	●	●					●	●					●		●													
HEAT DETECTORS IN ELEVATOR MACHINE ROOMS	●	●					●	●					●		●	●		●	●	●								
HEAT DETECTORS AT TOP OF ELEVATOR SHAFT	●	●					●	●					●		●	●		●	●	●								
WATER FLOW SWITCH	●	●					●	●					●		●													
TAMPER SWITCH			●	●			●																					
PIV VALVE SWITCH			●	●			●																					
FIRE PUMP RUNNING	●	●					●	●					●		●													
FIRE PUMP PHASE REVERSAL			●	●			●																					
FIRE PUMP POWER FAILURE			●	●			●																					
FIRE PUMP TROUBLE			●	●			●																					
GENERATOR TROUBLE			●	●			●																					
GENERATOR RUNNING	●	●																										
GENERATOR LOW FUEL			●	●			●																					
SMOKE CONTROL MANUAL ON SWITCH - PRESSURIZATION FAN					●	●															●							
SMOKE CONTROL MANUAL ON SWITCH - SUPPLY FAN					●	●																●						
SMOKE CONTROL MANUAL ON SWITCH - EXHAUST FAN					●	●																●						
SMOKE CONTROL MANUAL ON SWITCH - DAMPER					●	●															●							
SMOKE CONTROL MANUAL ON SWITCH - HVAC FAN					●	●																●						
SMOKE CONTROL MANUAL ON SWITCH - DOOR OPEN					●	●																	●					
SMOKE CONTROL MANUAL ON SWITCH - ELEV. HOISTWAY VENT					●	●																		●				
FIRE ALARM PANEL AC POWER FAILURE					●	●	●																					
FIRE ALARM PANEL TROUBLE					●	●	●																					
FIRE ALARM PANEL LOW BATTERY					●	●	●																					
FIRE ALARM PANEL OPEN CIRCUIT					●	●	●																					
FIRE ALARM PANEL GROUND FAULT					●	●	●																					
TRANSPONDER PANEL AC POWER FAILURE					●	●	●																					
TRANSPONDER PANEL LOW BATTERY					●	●	●																					
TRANSPONDER PANEL OPEN CIRCUIT					●	●	●																					
TRANSPONDER PANEL GROUND FAULT					●	●	●																					
EVAC MANUAL SPEAKER ZONE CONTROL					●	●																			●			
EVAC MANUAL FIREMENS PHONE ZONE CONTROL					●	●																				●		
VOICE EVAC MICROPHONE SWITCH																												●
DIGITAL AUDIO CONTROL PANEL TROUBLE					●	●	●																					
DIGITAL AUDIO PANEL GROUND FAULT					●	●	●																					
DIGITAL AMPLIFIER TROUBLE					●	●	●																					
DIGITAL AMPLIFIER LOW BATTERY					●	●	●																					

2 DETAIL

FIRE ALARM MATRIX - NOT ALL SYSTEM INPUTS MAY BE USED

N.T.S.

REVISIONS

NO.	DATE	DESCRIPTION

OSU PROJECT NUMBER *OSU-250050*

MARION - MORRIL HALL FIRE PANEL / ELEVATOR UPGRADES

PREPARED FOR
THE OHIO STATE UNIVERSITY
FACILITIES OPERATIONS AND DEVELOPMENT
COLUMBUS, OHIO

KORDA
KORDA. NEMETH ENGINEERING
WWW.KORDA.COM
DRAWN BY: Garrett Strauss
DESIGNED BY: Brendon Yoder
CHECKED BY: Stan Kmonk
PROJECT NUMBER: 2025-0308

STATE OF OHIO
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07-17-2026

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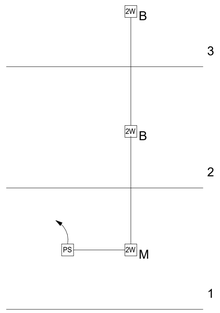
WELLOGY PROJ.NO.: 25022
PHASE: BID / PERMIT DRAWINGS

SHEET TITLE: ELECTRICAL DETAILS

SHEET NO.: E702

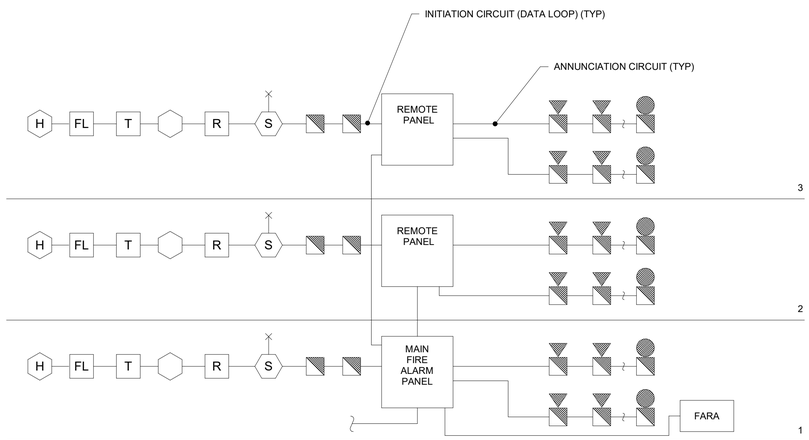
ARCHIVED DRAWING NUMBER	DRAWN BY KORDA	DATE 7/17/2026	OF



1 DETAIL

2-WAY EMERGENCY COMMUNICATIONS SYSTEM PER BANK OF ELEVATORS

N.T.S.



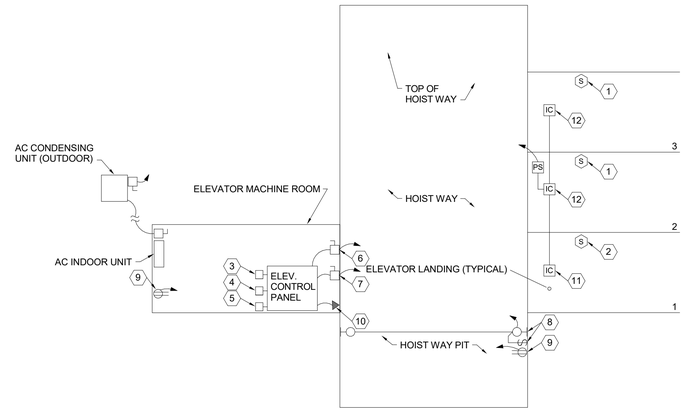
GENERAL NOTES

1. QUANTITY OF DEVICES SHOWN ON PLANS.
2. MINIMUM OF TWO ANNUNCIATION CIRCUITS PER FLOOR.
3. PROVIDE TWO OUTSIDE PHONE LINES TO FIRE ALARM PANEL.
4. ALL WIRING TO BE IN CONDUIT.

2 DETAIL

FIRE ALARM RISER

N.T.S.



GENERAL NOTES

1. PROVIDE NON-ADDRESSIBLE INITIATING DEVICES (SMOKE OR HEAT DETECTOR) WHERE DEVICES ARE LOCATED IN UN-HEATED SPACES. LOCATE ASSOCIATED ZONE MODULE IN HEATED SPACE.
2. ALL CONDUIT TO BE RIGID GALVANIZED STEEL, AND ALL BOXES NEMA 4 RATED, ALL LIGHT FIXTURES TO BE WET LOCATION LISTED, ALL OUTLETS AND DEVICES TO HAVE WET LOCATION WHILE-IN-USE COVERS IN ELEVATOR MACHINE ROOM AND HOIST WAY.
3. COORDINATE EXACT LOCATION OF DEVICES IN PIT AND HOIST WAY WITH ELEVATOR INSTALLATION DRAWINGS PRIOR TO ROUGH-IN.
4. LOCATE ELEVATOR DISCONNECT AND CAB LIGHTS/REC/HVAC DISCONNECT IMMEDIATELY ADJACENT TO DOOR ENTERING MACHINE ROOM.
5. PROVIDE AUXILIARY CONTACTS IN ELEVATOR DISCONNECT WHEN BATTERY LOWERING SYSTEM IS PROVIDED. WIRE COMPLETE TO ELEVATOR CONTROLLER.
6. ALL DISCONNECTS SHALL BE LOCKABLE IN THE OPEN POSITION.
7. PROVIDE CABLING FOR TRANSFER AND PRE-TRANSFER FROM ELEVATOR CONTROLLER TO ATS.

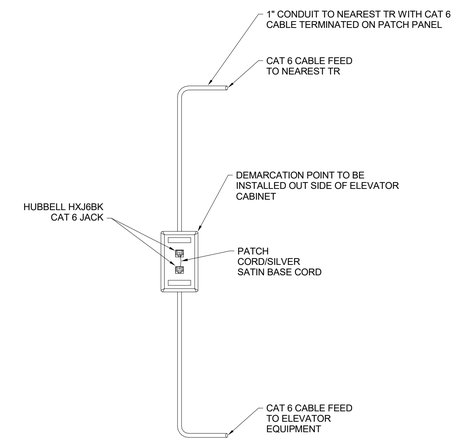
CODED NOTES

1. SMOKE DETECTOR SHALL ACTIVATE ILLUMINATED VISUAL AND AUDIBLE SIGNAL (FIREMAN'S HELMET) IN ELEVATOR CAB, AND INITIATE RECALL TO PRIMARY RECALL FLOOR.
2. SMOKE DETECTOR SHALL ACTIVATE ILLUMINATED VISUAL AND AUDIBLE SIGNAL (FIREMAN'S HELMET) IN ELEVATOR CAB, AND INITIATE RECALL TO ALTERNATE RECALL FLOOR.
3. FIRE ALARM INDIVIDUAL ADDRESSABLE MODULE RELAY TO ACTIVATE AUDIBLE/VISUAL (FIREMAN'S HELMET) SIGNAL TO ELEVATOR CONTROL PANEL.
4. FIRE ALARM INDIVIDUAL ADDRESSABLE MODULE RELAY TO ACTIVATE ELEVATOR PRIMARY RECALL SIGNAL TO ELEVATOR CONTROL PANEL.
5. FIRE ALARM INDIVIDUAL ADDRESSABLE MODULE RELAY TO ACTIVATE ELEVATOR SECONDARY RECALL SIGNAL TO ELEVATOR CONTROL PANEL.
6. FUSIBLE ELEVATOR CAB DISCONNECT SWITCH TO SERVE CAB LIGHTS, RECEPTACLE AND EXHAUST FAN (IF APPLICABLE). PROVIDE 30 AMP, SINGLE POLE, FUSIBLE DISCONNECT WITH 15 AMP FUSES.
7. FUSIBLE ELEVATOR DISCONNECT SWITCH.
8. VAPORTIGHT LIGHT FIXTURE AND SWITCH. LOCATE SWITCH NEAR ENTRY TO SPACE. (TYPICAL)
9. DUPLEX GF OUTLET.
10. VOICE OUTLET WITH 2 ANALOG TELEPHONE LINES TIED TO ELEVATOR CONTROLLER.
11. TWO-WAY ADA ELEVATOR INTERCOM COMMAND STATION IN MAIN EGRESS FLOOR ELEVATOR LOBBY.
12. TWO-WAY ADA ELEVATOR INTERCOM CALL STATION IN EACH ELEVATOR LOBBY.

3 DETAIL

ELEVATOR ELECTRICAL REQUIREMENTS

N.T.S.



4 DETAIL

ELEVATOR TELEPHONE CONNECTION

N.T.S.

REVISIONS		
NO.	DATE	DESCRIPTION

OSU PROJECT NUMBER *OSU-250050*

MARION - MORRIL HALL FIRE PANEL / ELEVATOR UPGRADES

PREPARED FOR

THE OHIO STATE UNIVERSITY
FACILITIES OPERATIONS AND DEVELOPMENT
COLUMBUS, OHIO

KORDA
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DESIGNED BY:	Brendon Yoder
CHECKED BY:	Stan Kmonk
PROJECT NUMBER:	2025-0308

STATE OF OHIO
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07-17-2026

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WELLOGY PROJ.NO.: 25022

PHASE:
BID / PERMIT DRAWINGS

SHEET TITLE:
ELECTRICAL DETAILS

SHEET NO.:
E703

ARCHIVED DRAWING NUMBER	DRAWN BY	DATE	OF
	KORDA	7/17/2026	

HVAC SYMBOLS LIST

NOTE: ALL SYMBOLS NOT NECESSARILY USED

GENERAL

UNDERFLOOR PIPING OR DUCTWORK	
EXISTING TO REMAIN	
EXISTING TO BE REMOVED	
EXISTING TO BE ABANDONED	
TYPICAL	(TYP), (TYP #)
INVERT ELEVATION	IE
UNLESS NOTED OTHERWISE	UNO
ABOVE FINISHED FLOOR	AFF
NOT IN CONTRACT	NIC
ITEM PROVIDED BY ANOTHER CONTRACTOR	OC
CONNECT TO EXISTING	
EXISTING TO REMAIN	(E)
EXISTING TO REMOVED / DEMOLISHED	(R)
EXISTING TO BE ABANDONED	(AB)

PIPING

HEATING WATER SUPPLY	HWS
HEATING WATER RETURN	HWR
CHILLED WATER SUPPLY	CWS
CHILLED WATER RETURN	CWR
CONDENSER WATER SUPPLY	CS
CONDENSER WATER RETURN	CR
LOW PRESSURE STEAM	LPS(#)
LOW PRESSURE CONDENSATE	LPR(#)
HIGH PRESSURE STEAM	HPS(#)
HIGH PRESSURE CONDENSATE	HPR(#)
CONDENSATE PUMP DISCHARGE	CPD
REFRIGERANT LIQUID	L
REFRIGERANT SUCTION	S
REFRIGERANT HOT GAS	HG
COOLING COIL CONDENSATE	C
VENT	V
HEAT PUMP WATER SUPPLY	HPWS
HEAT PUMP WATER RETURN	HPWR

SPECIALTIES

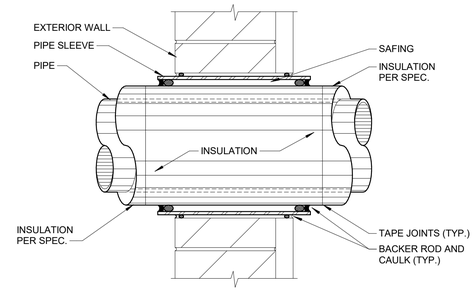
- AUTOMATIC AIR VENT WITH BALL VALVE
- MANUAL AIR VENT
- CONCENTRIC INCREASER
- CONCENTRIC REDUCER
- ECCENTRIC INCREASER
- ECCENTRIC REDUCER
- FILL FUNNEL
- FLEXIBLE CONNECTION
- FLOW ARROW
- FLOW SWITCH
- GAUGE WITH BALL VALVE
- HEAT TRACED PIPE
- METER
- PIPE ANCHOR
- CAP
- DROP
- RISE
- PRESSURE/TEMPERATURE TEST PLUG
- PIPE ALIGNMENT GUIDE
- FIRE RATED PIPE SLEEVE
- SIGHT GLASS
- THERMOMETER
- THRUST BLOCK
- STEAM TRAP
- UNION OR FLANGE
- VACUUM BREAKER
- BAS SENSOR
- VALVE IN RISER/DROP

VALVES

- 2-WAY CONTROL VALVE
- 3-WAY CONTROL VALVE
- BALANCE/SHUT-OFF VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- EXPANSION VALVE
- ISOLATION VALVE - SEE PROJECT SPECIFICATIONS FOR REQUIREMENTS
- GATE VALVE
- GLOBE VALVE
- PLUG VALVE
- PRESSURE REDUCING VALVE
- PRESSURE RELIEF VALVE
- SOLENOID VALVE
- STRAINER
- STRAINER W/ BLOWDOWN

MISCELLANEOUS

- DUCT ACCESS DOOR (A.D.)
- FIRE DAMPER (FD)
- SMOKE DAMPER (SD)
- COMB. FIRE/SMOKE DAMPER (CD)
- DUCT VOLUME DAMPER
- MOTOR OPERATED DAMPER (M)
- DUCT CHANGE IN ELEVATION (UP / (OR DOWN))
- FLEX DUCT
- TURNING VANES
- SPIN-IN FITTING
- DUCT SECTIONS
  - POSITIVE PRESSURE (SUPPLY/OUTSIDE) — RISE / DROP
  - NEGATIVE PRESSURE (RETURN/RELIEF) — RISE / DROP
  - NEGATIVE PRESSURE (EXHAUST) — RISE / DROP
- CARBON DIOXIDE SENSOR (C)
- HUMIDISTAT OR HUMIDITY SENSOR (MOUNT 48" A.F.F. U.N.O.) (H)
- ROOM PRESSURE MONITOR (MOUNT 48" A.F.F. U.N.O.) (P)
- THERMOSTAT OR SPACE TEMPERATURE SENSOR (MOUNT 48" A.F.F. U.N.O.) (T)
- SMOKE DETECTOR BY DIV. 26 DIV 23 TO PROVIDE DUCT ACCESS DOOR AT EACH OF THESE LOCATIONS (S)
- DIFFUSER
- RETURN AIR DEVICE
- TERMINAL BOXES, WITH/WITHOUT REHEAT



1 **DETAIL**

WALL PENETRATION - PIPE THROUGH EXTERIOR WALL

N.T.S.

GENERAL NOTES – HVAC (APPLY TO ALL HVAC DRAWINGS)

1. THE SYSTEM DESIGN IS BASED ON THE LATEST EDITION OF THE OHIO MECHANICAL CODE INCLUDING ALL AMENDMENTS THROUGH THE DATE OF DRAWING ISSUE.
2. THE EXISTING AND DEMOLITION DRAWINGS HAVE BEEN GENERATED BASED ON RECORD DRAWINGS AND LIMITED FIELD INVESTIGATIONS. ALL EXISTING WORK MUST BE FIELD VERIFIED PRIOR TO BEGINNING CONSTRUCTION. FIELD VERIFY EXACT SIZES AND LOCATIONS OF ALL EXISTING EQUIPMENT, DUCTWORK AND PIPING BEFORE GENERATING COORDINATION DRAWINGS.
3. PRIOR TO ANY DEMOLITION, VERIFY WHICH EQUIPMENT IS TO BE REMOVED AND TURNED OVER TO THE OWNER. ALL OTHER ITEMS ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR. PROTECT EXISTING EQUIPMENT THAT IS TO REMAIN IN SERVICE. ALL EXISTING DUCTWORK AND PIPING INSULATION THAT IS DAMAGED DURING THE DEMOLITION OR NEW WORK PROCESS SHALL BE REPLACED.
4. COORDINATE THE EXACT AREA OF CEILING REMOVAL NECESSARY FOR ALL WORK. THE CEILING REMOVAL SHALL BE BY THE GENERAL TRADES CONTRACTOR AT THE HVAC CONTRACTOR'S EXPENSE.
5. NOTE THAT ALL EXISTING SYSTEMS SERVE AREAS OUTSIDE OF THE RENOVATION AND MUST REMAIN IN OPERATION THROUGHOUT THE PROJECT. COORDINATE REQUIRED SHUTDOWNS WITH OWNER'S REPRESENTATIVE. CAP AND SEAL ALL REMAINING DUCTWORK AND PIPING IMMEDIATELY AFTER DEMOLITION OF PORTIONS OF SYSTEM.
6. COORDINATE ALL CONSTRUCTION ACTIVITIES AND REQUIRED PHASING THAT MAY AFFECT NORMAL BUILDING OPERATIONS WITH THE OWNER'S REPRESENTATIVE.
7. CLOSE ALL OPENINGS IN WALLS, CEILINGS, AND FLOORS, WHETHER EXPOSED OR CONCEALED, THAT ARE THE RESULT OF REMOVING DUCTWORK, PIPING, OR OTHER MECHANICAL ELEMENTS. MATCH ADJACENT SURFACE CONDITIONS.
8. ALL NEW WORK SHALL BE SUPPORTED BY NEW HANGERS AND SUPPORTS, FULLY INDEPENDENT OF EXISTING HANGERS. THE USE OF EXISTING HANGERS FOR NEW WORK IS PROHIBITED.

HVAC SHEET INDEX

SHEET NUMBER	SHEET NAME
H001	HVAC SHEET INDEX
H201	HVAC PLANS

AIR COOLED SPLIT SYSTEM

UNLESS OTHERWISE NOTED EQUIPMENT BASED ON DAIKIN

TAG	AC LOCATION	ACCU LOCATION	MODEL	HEATING		COOLING		CONDENSER DATA		ELEC. DATA (INDOOR UNIT)				ELEC. DATA (OUTDOOR UNIT)				INDICATED COMPONENTS PROVIDED BY		REMARKS
				CAPACITY MBH	COP	CAPACITY MBH	SEER	REFRIG.	NO. FANS	M.C.A	MOCP	VOLTS	PHASE	M.C.A	MOCP	VOLTS	PHASE	DIV 23	DIV 26	
AC1 ACCU1	ELEVATOR MACHINE RM	EXTERIOR WALL	RKF24AXVJU FTKF24AXVJU	N/A	N/A	24	21	R32	1	SEE OUTDOOR UNIT				16.34	20	208	1	D	- A	1, 2, 4. PROVIDE WALL BRACKETS FOR OUTDOOR UNIT.

INDICATED ELECTRICAL COMPONENTS:

A. DISCONNECT SWITCH.
B. CONTROL PANEL WITH INTEGRAL DISCONNECT SWITCH.
C. CONTROL PANEL.
D. WIRED CONTROLLER.

REMARKS:

1. CONDENSATE PUMP SHALL BE FURNISHED BY HVAC CONTRACTOR AND FIELD INSTALLED IN AC BY HVAC CONTRACTOR.
2. UNIT SHALL BE CAPABLE OF 0°F AMBIENT OPERATION.
3. SEPARATE POWER FEEDS FOR INDOOR AND OUTDOOR UNITS.
4. POWER FEED OUTDOOR UNIT ONLY.
5. PROVIDE WIND BAFFLE TO ALLOW COOLING DOWN TO -20°F AMBIENT.

REVISIONS

NO.	DATE	DESCRIPTION

OSU PROJECT NUMBER *OSU-250050*

MARION - MORRILL HALL FIRE PANEL / ELEVATOR UPGRADES

PREPARED FOR
THE OHIO STATE UNIVERSITY
FACILITIES OPERATIONS AND DEVELOPMENT
COLUMBUS, OHIO

KORDA
KORDA /NEMETH ENGINEERING
WWW.KORDA.COM
DRAWN BY: Jesse Whitehead
DESIGNED BY: Alex Klaiss
CHECKED BY: Eric Stephens
PROJECT NUMBER: 2025-0308

STATE OF OHIO ALEXANDRIA KLAISS E-82271 REGISTERED PROFESSIONAL ENGINEER 7-17-26

PREPARED BY: tel 614 785.0505
WELLOGY PROJ.NO.: 25022
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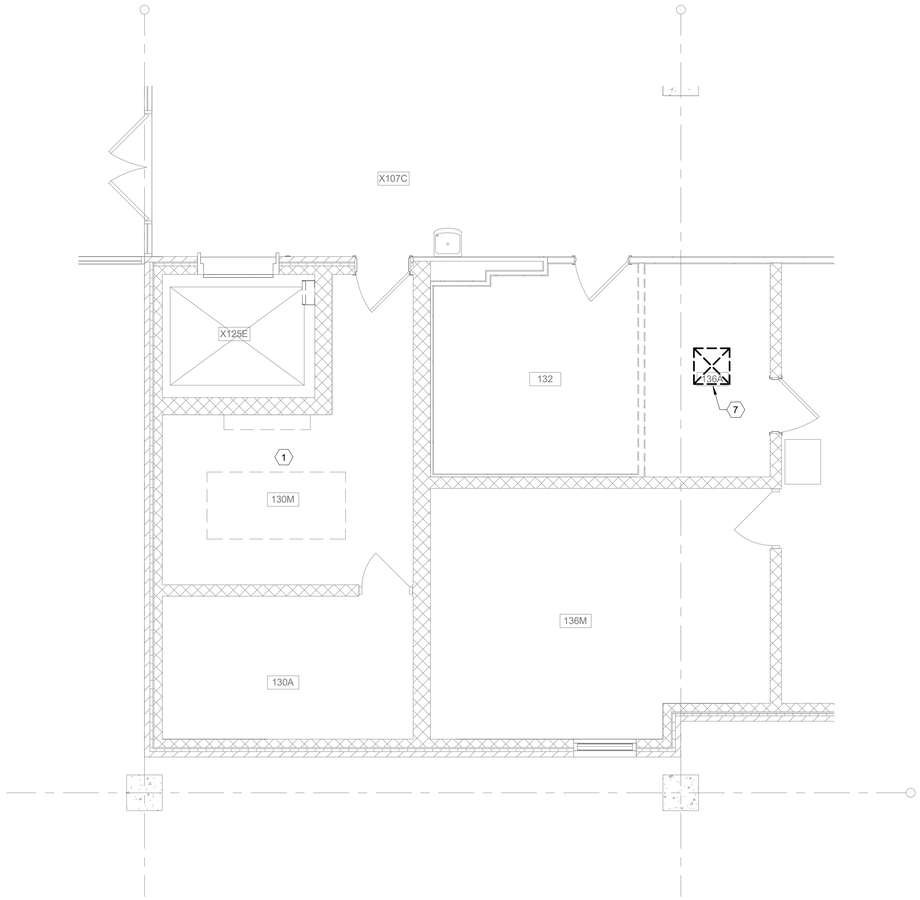
SHEET TITLE: HVAC SHEET INDEX

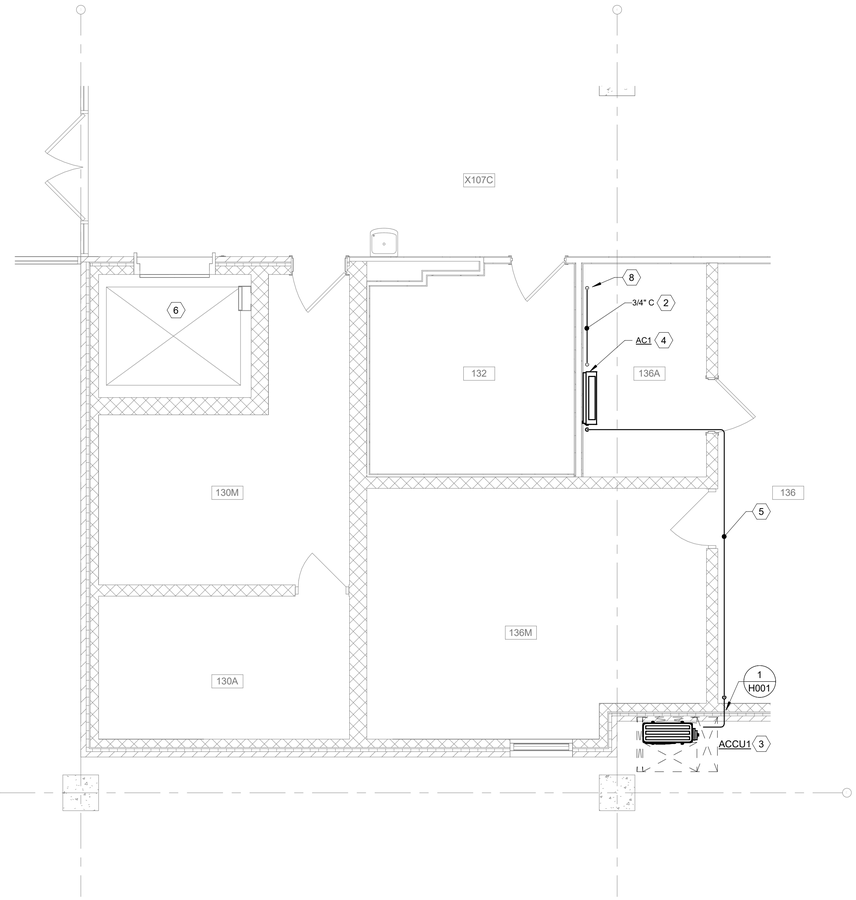
SHEET NO.: H001

ARCHIVED DRAWING NUMBER	DRAWN BY KORDA	DATE 7/17/2026	OF



1 FLOOR PLAN
LEVEL 1 - DEMOLITION

SCALE: 1/4" = 1'-0"
0' 1' 2' 4'
N

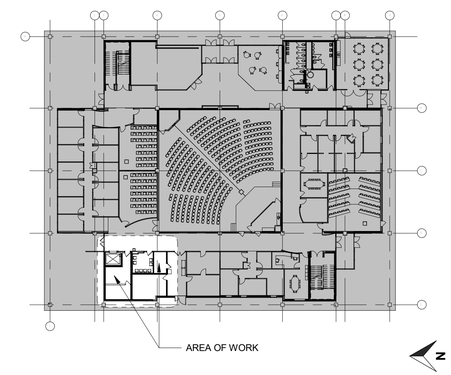


2 FLOOR PLAN
LEVEL 1 - NEW WORK

SCALE: 1/4" = 1'-0"
0' 1' 2' 4'
N

CODED NOTES:

1. ELEVATOR EQUIPMENT WILL BE REMOVED FROM THIS ROOM. HVAC TO REMAIN.
2. ROUTE CONDENSATE TO EXISTING FLOOR DRAIN IN ROOM. SECURE PIPE TO WALL.
3. PROVIDE WALL BRACKET FOR NEW CONDENSING UNIT ACCU1. INSTALL APPROXIMATELY 5'-0" ABOVE GRADE, COORDINATE WITH UNIVERSITY.
4. INSTALL NEW COOLING UNIT AC1 HIGH ON WALL. COORDINATE WITH REQUIRED ELECTRICAL AND ELEVATOR EQUIPMENT IN THE ROOM. DO NOT ROUTE ASSOCIATED PIPING ABOVE EQUIPMENT OR PANELS.
5. INSTALL REFRIGERANT PIPING BETWEEN AC1 AND ACCU1. PIPE SIZE PER MANUFACTURER. THE SINGLE LINE REPRESENTS BOTH PIPES REQUIRED IN THE LINESET.
6. THE TEMPERATURE CONTROL CONTRACTOR SHALL CONNECT THE NEW PIT WATER ALARM (PROVIDED BY DIVISION 14) TO THE EXISTING SIEMENS BUILDING AUTOMATION SYSTEM. ALARM THE BUILDING AUTOMATION SYSTEM WHEN WATER IS DETECTED.
7. REMOVE EXISTING SUPPLY AIR DEVICE. CAP DUCT AIR TIGHT ABOVE THE CEILING.
8. REPLACE THE EXISTING FLOOR DRAIN COVER, MATCH EXISTING, VERIFY SIZE IN FIELD.



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WELLOGY PROJ.NO.: 25022

PHASE:
BID / PERMIT DRAWINGS

SHEET TITLE:
HVAC PLANS

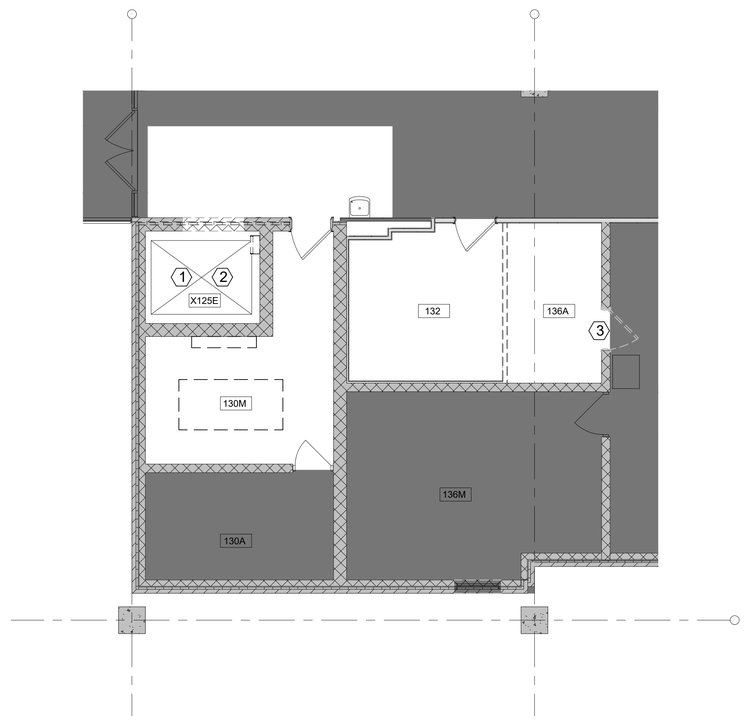
SHEET NO.:
H201

ARCHIVED DRAWING NUMBER	DRAWN BY KORDA	DATE 7/17/2026	OF

KORDA
KORDA · NEMETH ENGINEERING
WWW.KORDA.COM

DRAWN BY:	Jesse Whitehead
DESIGNED BY:	Alex Klaiss
CHECKED BY:	Eric Stephens
PROJECT NUMBER:	2025-0308

STATE OF OHIO
ALEXANDRIA M. KLAISS
E-82271
REGISTERED PROFESSIONAL ENGINEER
7-17-26



A HAZARDOUS MATERIALS ABATEMENT PLAN - LEVEL 01

0 4' - 0" 8' - 0" 12' - 0"

CODED NOTES

1. EXISTING ELEVATOR CAB IS TO REMAIN; HOWEVER, THE TAR COATING ON EXTERIOR OF CAB SHELL CONTAINS ASBESTOS. HAZARDOUS MATERIALS ABATEMENT CONTRACTOR (HMAC) TO PERFORM ANY WORK WHICH DISTURBS THIS COATING. GENERAL CONTRACTOR TO PROVIDE EXACT EXTENTS/LOCATIONS OF ABATEMENT REQUIRED TO PERFORM ANY NEW WORK WHICH INCLUDES BUT IS NOT LIMITED TO PENETRATIONS/DRILLING, ATTACHMENTS, DETACHMENTS, ETC. EXACT WORK LOCATION(S) NOT SHOWN ON DRAWING. FOR BIDDING PURPOSES, INCLUDE 30 SQUARE FEET FOR REMOVAL.
2. HMAC SHALL REMOVE AND DISPOSE OF ACM ELEVATOR CAB DOORS; APPROXIMATELY 2 DOORS EACH (40 SQUARE FEET TOTAL).
3. HMAC SHALL REMOVE AND DISPOSE OF ASSUMED ACM FIRE DOOR; APPROXIMATELY 1 DOOR EACH (20 SQUARE FEET).

GENERAL NOTES

1. HMAC SHALL REFER TO THE PHASING PLAN AND ACCOUNT FOR MULTIPLE MOBILIZATIONS/CONTAINMENTS/ PHASES BASED ON THIS PLAN. HMAC SHALL COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR, OWNER, ARCHITECT AND ENVIRONMENTAL CONSULTANT.
2. HMAC IS RESPONSIBLE FOR ACCESS TO ALL ACMS IDENTIFIED FOR ABATEMENT.
3. ALL CONTRACTORS SHALL USE EXTREME CAUTION WHEN WORKING NEAR ASBESTOS CONTAINING MATERIALS PROJECTED TO REMAIN INTACT AND UNDISTURBED WITHIN THE WORK AREAS. REFER TO THE SURVEY REPORT FOR FURTHER INFORMATION.
4. WORK MAY BE REQUIRED TO BE PERFORMED AFTER HOURS. COORDINATE WORK HOURS WITH GENERAL CONTRACTOR AND OSU.
5. ALL ACM WASTE FROM THIS PROJECT MUST BE DISPOSED IN DOUBLE BLACK BAGS (IF FEASIBLE) AND TRANSPORTED IN COVERED DUMP CARTS. LARGER MATERIALS SUCH AS FIRE DOORS AND ELEVATOR CAB DOORS MAY BE WRAPPED IN 2 LAYERS OF 6-MIL POLY AND PROPERLY LABELED. ALL WASTE MUST BE LABELED PRIOR TO REMOVING FROM WORK AREA.
6. HMAC SHALL REMOVE AND PACKAGE ALL FLORESCENT LIGHT BULBS AND LIGHT BALLASTS SCHEDULED FOR DEMOLITION; REFER TO ELECTRICAL DEMOLITION PLANS AND SPECIFICATION SECTION 02 82 20 FOR ADDITIONAL INFORMATION. BULBS AND BALLASTS SHALL BE PACKAGED IN CONTAINERS PROVIDED BY OSU EHS. CONTRACTOR SHALL COORDINATE DROP OFF AND PICK OF CONTAINERS. CONTRACTOR SHALL SEPARATE BALLASTS INTO PCB AND NON-PCB CONTAINING. BULBS AND BALLASTS WITHIN ELEVATOR CABS ARE NOT DEPICTED ON THE PLANS.
7. THE ELEVATOR AT MORRILL HALL IS A HYDRAULIC ELEVATOR WITH AN OIL RESERVE TANK. HYDRAULIC OILS MAY CONTAIN PCBS. THE DEMOLITION CONTRACTOR SHOULD INSPECT ANY OIL ASSOCIATED WITH ELEVATOR COMPONENTS AT TIME OF CONSTRUCTION AND TEST ACCORDINGLY. THE OIL SHOULD BE DISPOSED OF OR RECYCLED IN ACCORDANCE WITH REGULATIONS BASED ON THE PCB SAMPLING DATA.
8. HMAC SHALL BE RESPONSIBLE FOR VERIFYING ALL MATERIALS AND QUANTITIES AND INCLUDE ANY VARIANCES IN THEIR BID.
9. IF ADDITIONAL ASBESTOS CONTAINING MATERIALS ARE UNCOVERED OR SUSPECTED, CONTACT ARCHITECT AND UNIVERSITY TO IDENTIFY MATERIAL. DO NOT REMOVE MATERIAL UNTIL AUTHORIZED TO PROCEED. DO NOT COLLECT BULK SAMPLES OF MATERIAL. ENVIRONMENTAL CONSULTANT WILL COLLECT BULK SAMPLES IF NECESSARY.
10. PROHIBIT ACCESS TO THE WORK AREA DURING ABATEMENT. CONTRACTOR RESPONSIBLE FOR ADHERING TO EGRESS INDICATED ON DRAWINGS.
11. SPECIAL CARE SHOULD BE TAKEN WHEN WORKING NEAR ELECTRIC, WATER, STEAM, GLASS LAB PIPE, OXYGEN/ GAS SUPPLY LINES AND ACTIVE ELEVATORS AND MACHINE ROOMS. ELEVATORS SHALL BE SHUT DOWN, LOCKED-OUT/ TAGGED-OUT PRIOR TO ANY WORK.
12. THE HMAC SHALL DECONTAMINATE ALL BUILDING MATERIALS, WHICH BECOME CONTAMINATED OR ARE DISTURBED FROM ASBESTOS REMOVAL.
13. THE HMAC IS TO ADHERE TO THE OSHA STANDARD 29 CODE OF FEDERAL REGULATIONS (CFR) 1926.62 LEAD EXPOSURE IN CONSTRUCTION WHEN PERFORMING SELECTIVE DEMOLITION WORK PRACTICES, IMPACTING, OR DISTURBING ANY BUILDING MATERIALS. THE HMAC MUST CONDUCT DAILY EXPOSURE MONITORING FOR LEAD-IN-THE-AIR AND COMPLY WITH ALL APPLICABLE REGULATIONS.
14. THE OHIO STATE UNIVERSITY, A/E, CONSTRUCTION MANAGER, AND ENVIRONMENTAL CONSULTANT HAVE THE RIGHT TO CONTROL LOCATION OF ALL CONTRACTOR'S SUPPLIES AND STORAGE.
15. HMAC MUST CONFORM TO THE REQUIREMENTS IN THE FRONT END DOCUMENTS IN REGARDS TO PARKING REQUIREMENTS AND PRIOR TO INTERRUPTING ANY ROADWAYS AND/OR PARKING LOTS AFFECTED BY THE SCOPE OF WORK. PARKING PASSES MAY BE OBTAINED FROM CAMPUS PARC.
16. HMAC IS RESPONSIBLE FOR FOLLOWING AND ADHERING TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS INCLUDING, BUT NOT LIMITED TO, THOSE SET FORTH BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), THE OHIO DEPARTMENT OF HEALTH (ODH), AND THE OHIO STATE UNIVERSITY DEPARTMENT OF ENVIRONMENTAL HEALTH AND SAFETY (OSU EHS).

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PREPARED FOR
THE OHIO STATE UNIVERSITY
FACILITIES OPERATIONS AND DEVELOPMENT
COLUMBUS, OHIO

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Asbestos Hazard Abatement
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WELLOGY PROJ.NO.: 25022

PHASE:
BID / PERMIT DRAWINGS

SHEET TITLE:
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