1/16" = 1'-0" 0 4' 8' 16' | 1/8" = 1'-0" 0 2' 4' 8' | 3/16" = 1'-0" 0 2' 4' 8' | 1/4" = 1'-0" 0 1' 2' 4' | 3/8" = 1'-0" 0 1' 2' 4' | 1/2" = 1'-0" 0 6" 1' 2' | 3/4" = 1'-0" 0 3" 6" 1' 2' | 1" = 1'-0" 0 3" 6" 1' 2' | 1 1/2" = 1'-0" 0 3" 6" 1' | 3" = 1'-0" 0 1" 2" 3" 6" 1' | 6" = 1'-0" 0 1" 2" 3" 6"

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

MONTGOMERY COUNTY ENVIRONMENTAL SERVICES

APPROVAL

Bernard L. Mueller, P.E. — MONTGOMERY COUNTY ENVIRONMENTAL SERVICES

7/9/26 — DATE

MONTGOMERY COUNTY

DATE

MONTGOMERY COUNTY

CD DOCUMENTS

ARCHITECT:

SPGB ARCHITECTS

4333-A TULLER ROAD
DUBLIN, OHIO 43017

IN ASSOCIATION WITH:

ENVIRONMENTAL CONSULTANT:

1441 KING AVE
COLUMBUS, OHIO 43212

MEP ENGINEERS:

tec inc. engineering & design

4995 BRADENTON BLVD, SUITE 240
DUBLIN, OHIO 43017

STRUCTURAL ENGINEERS:

8800 LYRA DR, SUITE 560
COLUMBUS, OHIO 43240

ELEVATOR CONSULTANT:

LERCH BATES — Building Insight

4995 BRADENTON AVENUE #200
DUBLIN, OHIO 43017

STATE OF OHIO — THOMAS W. GATES — 12169 — REGISTERED ARCHITECT

THOMAS W. GATES
90-12169
12/31/2027

SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DESCRIPTION	DATE	APPVD:	DATE:

COVER SHEET

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION
MCES 130075-64
2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO.
G-000

PROJ NO.: 25013
DATE: 06/08/2026

1/16" = 1'-0" 0 4" 8" 16'

1/8" = 1'-0" 0 2' 4' 8'

3/16" = 1'-0" 0 2' 4' 8'

1/4" = 1'-0" 0 1' 2' 4'

3/8" = 1'-0" 0 1' 2' 4'

1/2" = 1'-0" 0 6" 1' 2'

3/4" = 1'-0" 0 3" 6" 1' 2'

1" = 1'-0" 0 3" 6" 1' 2'

1 1/2" = 1'-0" 0 3" 6" 1'

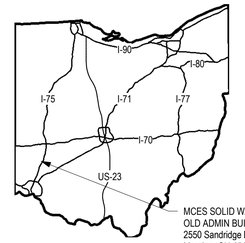
3" = 1'-0" 0 1" 2" 3" 6" 1'

6" = 1'-0" 0 1" 2" 3" 6"

SHEET INDEX

Sheet Number	Sheet Name
GENERAL	
G-000	COVER SHEET
G-001	SHEET INDEX & SITE MAP
G-002	LIFE SAFETY PLAN
G-003	CONTRACTOR LOGISTICS PLAN
HAZARDOUS MATERIALS	
HM-100	FIRST FLOOR ABATEMENT PLAN
HM-101	SECOND FLOOR ABATEMENT PLAN
HM-102	THIRD & FOURTH FLOOR ABATEMENT PLAN
ARCHITECTURAL DEMOLITION	
AD-100	FIRST FLOOR DEMOLITION PLAN
AD-101	SECOND FLOOR DEMOLITION PLAN
AD-102	THIRD FLOOR DEMOLITION PLAN
AD-103	FOURTH FLOOR DEMOLITION PLANS
AD-104	FOURTH & MEZZANINE FLOOR DEMOLITION PLANS - EAST END
PLUMBING DEMOLITION	
PD-100	PLUMBING FIRST FLOOR DEMOLITION PLAN
PD-101	PLUMBING SECOND DEMOLITION FLOOR PLAN
PD-102	PLUMBING THIRD FLOOR DEMOLITION PLAN
PD-103	PLUMBING FOURTH & MEZZANINE FLOOR DEMOLITION PLAN
MECHANICAL DEMOLITION	
MD-100	HVAC FIRST FLOOR DEMOLITION PLAN
MD-101	HVAC SECOND FLOOR DEMOLITION PLAN
MD-102	HVAC THIRD FLOOR DEMOLITION PLAN
MD-103	HVAC FOURTH & MEZZANINE FLOOR DEMOLITION PLAN
ELECTRICAL DEMOLITION	
ELD-100	ELECTRICAL FIRST & SECOND FLOOR LIGHTING DEMOLITION PLAN
ELD-101	ELECTRICAL THIRD & FOURTH FLOOR TIPPING AREA LIGHTING DEMOLITION PLAN
EPD-100	ELECTRICAL FIRST FLOOR POWER DEMOLITION
EPD-101	ELECTRICAL SECOND FLOOR POWER DEMOLITION PLAN
EPD-102	ELECTRICAL THIRD FLOOR POWER DEMOLITION PLAN
EPD-103	ELECTRICAL THIRD & FOURTH FLOOR TIPPING AREA POWER DEMOLITION PLAN
ARCHITECTURAL	
A-001	ARCHITECTURAL ABBREVIATIONS, SYMBOLS, & NOTES
A-002	ARCHITECTURAL ACCESSIBLE CLEARANCE
A-101	FIRST FLOOR PLAN
A-102	SECOND FLOOR PLAN
A-103	THIRD FLOOR PLAN
A-104	PARTIAL THIRD FLOOR PLAN & RCP
A-105	FOURTH FLOOR PLAN
A-106	FOURTH FLOOR & MEZZANINE PLANS - EAST END
A-201	EXTERIOR ELEVATIONS
A-401	RESTROOM PLANS & ELEVATIONS
A-420	STAIR PLANS & ELEVATIONS
A-421	STAIR PLANS & ELEVATIONS
A-422	TYPICAL STAIR DETAILS
A-423	ELEVATOR PLANS & DETAILS
A-520	INTERIOR PARTITION TYPES & DETAILS
A-540	TYPICAL DETAILS
A-601	DOOR SCHEDULE, TYPES & DETAILS
A-602	TYPICAL DOOR DETAILS
A-610	WINDOW SCHEDULE, ELEVATIONS & DETAILS
A-620	FINISH FLOOR PLANS & SCHEDULES
A-701	SIGNAGE SCHEDULE
STRUCTURAL	
S-001	GENERAL NOTES & SPECIAL INSPECTIONS
S-002	GARAGE S.O.G. REPLACEMENT PLAN & TYP. DETAILS
S-301	REPRESENTATIVE PHOTOS
PLUMBING	
P-001	PLUMBING GENERAL NOTES, SYMBOLS, ABBREVIATIONS, SCHEDULES, AND DETAILS
P-002	FIRE PROTECTION & PLUMBING SPECIFICATIONS
P-200	PLUMBING FIRST FLOOR PLAN
P-201	PLUMBING SECOND FLOOR PLAN
P-202	PLUMBING THIRD FLOOR PLAN
MECHANICAL	
M-100	HVAC GENERAL NOTES & REQUIREMENTS, SYMBOLS & ABBREVIATIONS
M-101	HVAC SCHEDULES
M-102	HVAC DETAILS
M-103	HVAC SPECIFICATIONS
M-200	HVAC FIRST FLOOR NEW WORK PLAN
M-201	HVAC SECOND FLOOR NEW WORK PLAN
M-202	HVAC THIRD FLOOR NEW WORK PLAN
M-203	HVAC FOURTH FLOOR NEW WORK PLAN
ELECTRICAL	
E-100	ELECTRICAL ONE-LINES & LIGHTING FIXTURE SCHEDULE
E-101	ELECTRICAL SPECIFICATIONS
E-102	ELECTRICAL PANEL SCHEDULES
EL-200	ELECTRICAL FIRST & SECOND FLOOR LIGHTING NEW WORK PLAN
EL-202	ELECTRICAL THIRD FLOOR LIGHTING NEW WORK PLAN
EL-203	ELECTRICAL FOURTH FLOOR TIPPING AREA LIGHTING NEW WORK PLAN
EP-200	ELECTRICAL FIRST FLOOR POWER NEW WORK PLAN
EP-201	ELECTRICAL SECOND FLOOR POWER NEW WORK PLAN
EP-202	ELECTRICAL THIRD FLOOR POWER NEW WORK PLAN
EP-203	ELECTRICAL THIRD & FOURTH FLOOR TIPPING AREA POWER NEW WORK PLAN

VICINITY MAP



MCES SOLID WASTE
OLD ADMIN BUILDING
2550 Sandridge Dr
Moraine, OH 45439

LOCATION MAP



MCES SOLID WASTE
OLD ADMIN BUILDING
2550 Sandridge Dr
Moraine, OH 45439

MCES SOLID WASTE
Concrete & CMU
recycling area

N

ACCESS MAP

MCES SOLID WASTE
OLD ADMIN BUILDING
2550 Sandridge Dr
Moraine, OH 45439

N

SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE

SHEET INDEX & SITE MAP

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

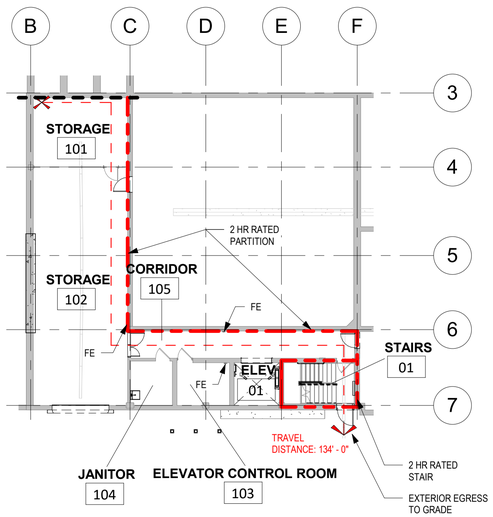
SHEET NO.

G-001

PROJ NO.: 25013

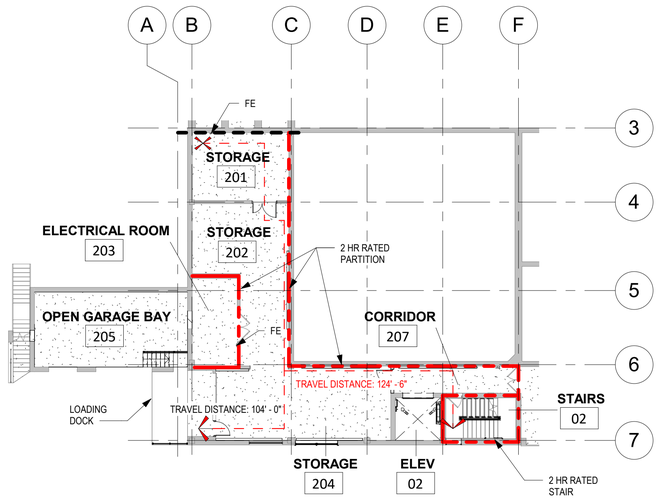
DATE: 08/19/2026

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



1 FIRST FLOOR LIFE SAFETY PLAN

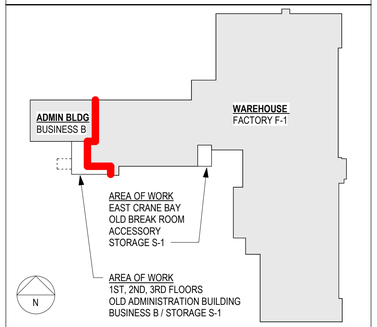
1/16" = 1'-0"



2 SECOND FLOOR LIFE SAFETY

1/16" = 1'-0"

KEY PLAN



FIRE RATED ASSEMBLY LEGEND

- LIFE SAFETY TRAVEL DISTANCE
- 2 HR RATED ASSEMBLY
- 1 HR RATED ASSEMBLY
- START
- EXIT

BUILDING CODE RENOVATION

2024 OHIO EXISTING BUILDING CODE (OEBC)
2024 OHIO BUILDING CODE (OBC)
2024 OHIO MECHANICAL CODE (MBC)
2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) ANSI/ASHRAE/IES STANDARD 90.1-2019
NATIONAL ELECTRICAL CODE (NEC)
ICC A117.1-2017- ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

ALTERATION METHOD: **301.3.1 PRESCRIPTIVE COMPLIANCE METHOD**

EXISTING CONSTRUCTION TYPE: **IIB – NON-COMBUSTIBLE/UNPROTECTED**
PROPOSED: **UNCHANGED**

EXISTING BUILDING USE: **NON-SEPARATED MIXED USE FACTORY F-1 / BUSINESS B / STORAGE S-1**
PROPOSED: **UNCHANGED**

FIRE PROTECTION: **FULLY SPRINKLERED**
903.2
PROPOSED: **UNCHANGED**

BUILDING AREA:	OLD ADMINISTRATION BLDG	ADMINISTRATION BLDG	FACTORY F-1
	1ST FLOOR - 2050 SF	7,280 SF	136,250 SF
	2ND FLOOR - 2050 SF		
	3RD FLOOR - 2050 SF		
	4TH FLOOR - 2050 SF		
	TOTAL - 8200 SF		

AREA OF RENOVATION: (ACCESSORY USE S-1)	OLD ADMINISTRATION BLDG	ADMINISTRATION BLDG	FACTORY F-1
	1ST FLOOR - 2050 SF	NO WORK	4TH FLOOR - 650 SF
	2ND FLOOR - 2050 SF		EAST CRANE BAY - 50 SF
	3RD FLOOR - 2050 SF		
	4TH FLOOR - 0 SF		
	TOTAL - 6150 SF		

NO CHANGES TO BUILDING SQUARE FOOTAGE, HEIGHT, OR USE

OCCUPANT LOAD: TABLE 10004.1.2 — **B: 150 GROSS SF S-1: 300 GROSS SF**

EGRESS WIDTH: OBC 1005.3.2 — THE CAPACITY, IN INCHES, OF MEANS OF EGRESS COMPONENTS OTHER THAN STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH COMPONENT BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.2 INCH PER OCCUPANT. STAIRS SHALL BE CALCULATED AT 0.3 INCH PER OCCUPANT.

EXISTING:
S-1 1,295 SF (1ST FLOOR)
+1,350 SF (2ND FLOOR)
+1,650 SF (3RD FLOOR)
= 4,295 SF/300 = **14 OCCUPANTS**

B +1,650 SF (4TH FLOOR)
= 1,650 SF/150 = **11 OCCUPANTS**

TOTAL = 25 OCCUPANTS

MAX DISTANCE TO EXIT: TABLE 1017.2 — **B: 300 FT W/ SPRINKLER S-1: 250 FT W/ SPRINKLER**

COMMON PATH OF TRAVEL: TABLE 1006.2.1 — **B: 100 FT W/ SPRINKLER S-1: 100 FT W/ SPRINKLER**

EXIT STAIRS RATING: 713.4 — **2 HR CONNECTING 4 STORIES OR MORE**

EXIT ACCESS CORRIDORS: 1020.2 — **0 HOURS W/ TYPE 13 SPRINKLER**

INCIDENTAL USES: TABLE 509 — **FURNACE ROOMS OVER 400,000 BTU: 1 HOUR OR 0 HOURS W/ SPRINKLER**

FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS: TABLE 601

INTERIOR LOAD BEARING WALLS:	**0 HOUR**
NON-LOAD BEARING PARTITIONS:	**0 HOUR**
EXTERIOR WALLS-LOAD BEARING AND NON-LOAD BEARING:	**0 HOUR**
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS:	**0 HOUR**
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS:	**0 HOUR**

MIN. CORRIDOR WIDTHS: TABLE 1020.2		
	ANY OCCUPANCY NOT LISTED:	44 INCHES
	ACCESS TO MEP EQUIPMENT:	24 INCHES
	OCCUPANT LOAD LESS THAN 50:	36 INCHES

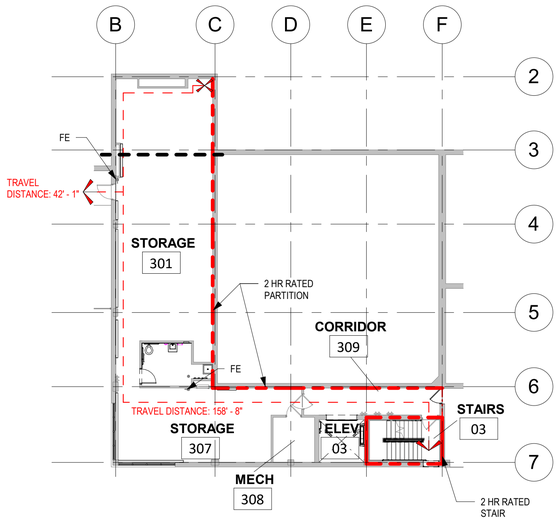
MIN. STAIR WIDTHS: 1011.2 & 1009.3.2 — ANY OCCUPANCY THAT IS NON ACCESSIBLE: 44 INCHES
ACCESSIBLE STAIRS IN W/O SPRINKLERS: 48 INCHES MIN. BETWEEN RAILS
OCCUPANT LOAD LESS THAN 50 NON ACCESSIBLE: 36 INCHES

PLUMBING FIXTURE COUNTS: TABLE 2902.1
B: WC- 1 PER 25 FOR THE 1ST 50 AND THEN 1 PER 50 FOR THE REMAINDER
LAV- 1 PER 40 FOR THE 1ST 80 AND THEN 1 PER 80 FOR THE REMAINDER
DF- 1 PER 100
1 SERVICE SINK

S-1: WC- 1 PER 100
LAV- 1 PER 100
DF- 1 PER 1000
1 SERVICE SINK

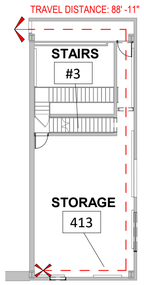
OLD ADMIN BLDG:
EXISTING: S-1 1,295 SF (1ST FLOOR) +1,350 SF (2ND FLOOR) +1,650 SF (3RD FLOOR) = 4,295 SF/300 = 14 OCCUPANTS = 1 WC / 1LAV / 1 SERVICE SINK REQUIRED; 1 WC / 1LAV / 2 SERVICE SINKS PROVIDED

PROPOSED: B +1,650 SF (4TH FLOOR) = 1,650 SF/150 = 11 OCCUPANTS = 1 WC / 1LAV / 1 SERVICE SINK REQUIRED; 2 WC / 2 LAV / 1 SERVICE SINK - EXISTING TO REMAIN



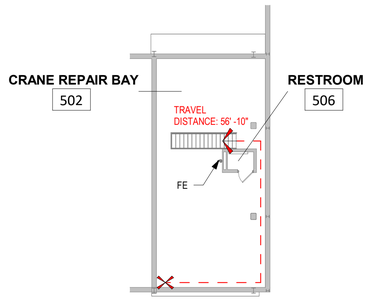
3 THIRD FLOOR LIFE SAFETY

1/16" = 1'-0"



4 EAST CRANE BAY BREAKROOM LIFE SAFETY

1/16" = 1'-0"



5 EAST CRANE BAY LIFE SAFETY

1/16" = 1'-0"

SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD.	DATE

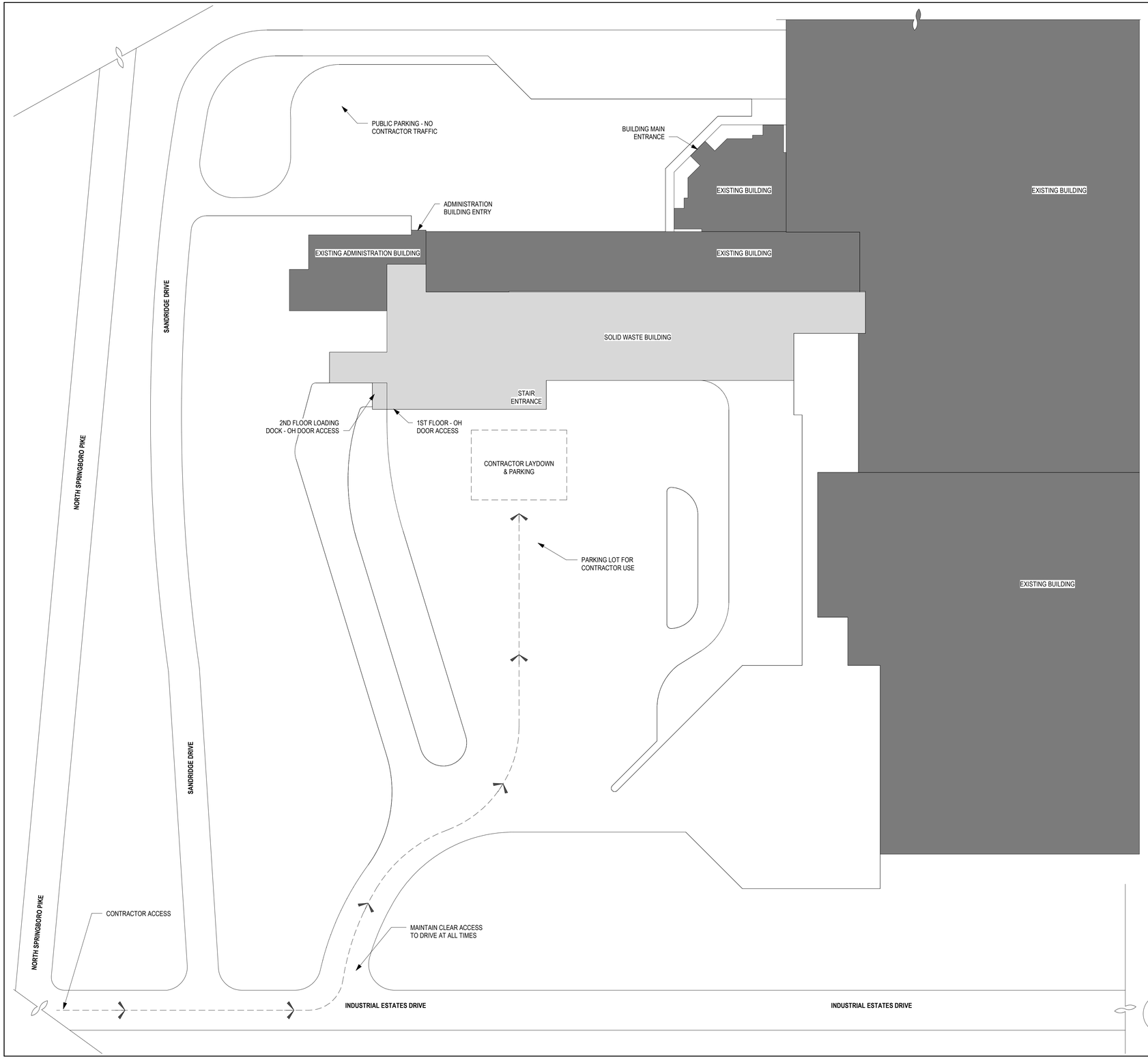
LIFE SAFETY PLAN

MCES 130075-64
MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION
2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO.
G-002

PROJ NO.: 25013
DATE: 08/19/2026

1/16" = 1'-0" 0 4' 8' 16' | 1/8" = 1'-0" 0 2' 4' 8' | 3/16" = 1'-0" 0 2' 4' 8' | 1/4" = 1'-0" 0 1' 2' 4' | 3/8" = 1'-0" 0 1' 2' 4' | 1/2" = 1'-0" 0 6" 1' 2' | 3/4" = 1'-0" 0 3" 6" 1' 2' | 1" = 1'-0" 0 3" 6" 1' 2' | 1 1/2" = 1'-0" 0 3" 6" 1' | 3" = 1'-0" 0 1" 2" 3" 6" 1' | 6" = 1'-0" 0 1" 2" 3" 6"



GENERAL NOTES

A. CONTRACTOR TO MAINTAIN TWO MEANS OF EGRESS AT ALL TIMES. MAINTAIN MIN. 44" CLEARANCE IN CORRIDORS FOR FREE EGRESS AT ALL TIMES.

B. CONTRACTOR LAYDOWN TO BE WITHIN THE CONSTRUCTION SPACE.

C. CONTRACTOR TO MAINTAIN CONSTRUCTION BARRIER BETWEEN THE CONSTRUCTION AREA AND THE REST OF THE OCCUPIED BUILDING.

D. FOR ITEMS TO BE REMOVED - CONTRACTOR TO DISPOSE OF PROPERLY. CONTRACTOR TO PROVIDE A WASTE-COLLECTION CONTAINER & IT SHALL BE LOCATED AS DIRECTED BY THE OWNER DURING DEMOLITION. CONTRACTOR SHALL NOT USE MCES DUMPSTERS.

E. MAINTAIN & PROTECT ELECTRICAL DEVICES & THERMOSTATS AT WALLS, U.O.N.

F. CONTRACTOR SHALL PROVIDE PORTABLE RESTROOM FACILITIES REQUIRED FOR CONTRACTOR USE THROUGHOUT THE DURATION OF THE PROJECT. COORDINATE LOCATION WITH OWNER.

1 CONTRACTOR LOGISTICS PLAN

1" = 30'-0"

N

SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE

CONTRACTOR LOGISTICS PLAN

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

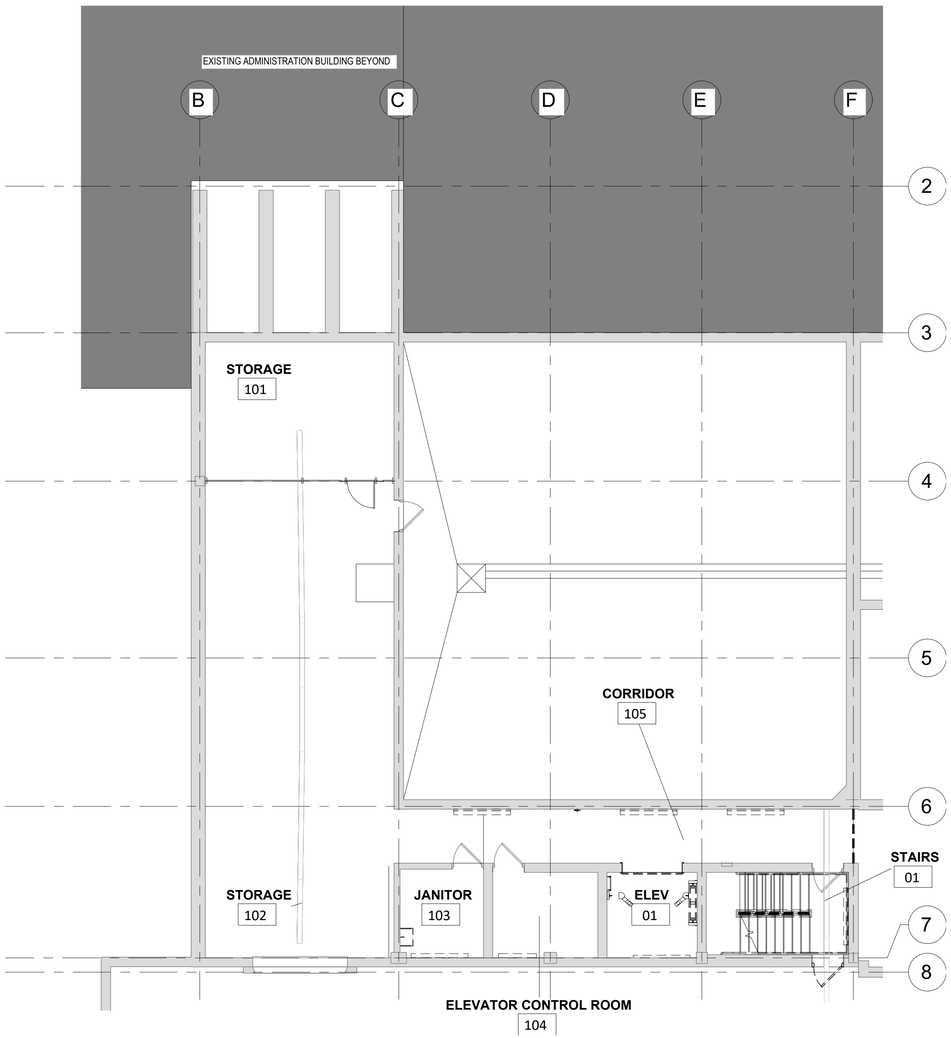
2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO.

G-003

PROJ NO.: 25013

DATE: 08/19/2026



1 FIRST FLOOR PLAN ABATEMENT

1/8" = 1'-0"

CODED NOTES

NO CODED NOTES THIS SHEET.

GENERAL NOTES

A. LAWHON & ASSOCIATES WILL BE CONDUCTING ON-SITE MONITORING AND CLEARANCE TESTING OF ABATEMENT ACTIVITIES. HMAC SHALL NOTIFY LAWHON PROJECT MANAGER AT LEAST 10 DAYS PRIOR TO THE START OF ABATEMENT WORK. MR. JORDAN MEDERER IS THE LAWHON PM AND CAN BE REACHED AT JMEDERER@LAWHON-ASSOC.COM OR AT 614-481-8600, EXTENSION 142.

B. THE FOLLOWING MATERIALS HAVE BEEN ASSUMED TO CONTAIN ASBESTOS. ABATEMENT CONTRACTOR MUST INCLUDE ABATEMENT/ DEMOLITION OF THESE MATERIALS IN THE BASE BID. COORDINATE QUANTITIES AND EXACT QUANTITIES WITH THE DRAWINGS AND GC. AT THE TIME OF CONSTRUCTION, LAWHON CAN TEST THESE MATERIALS AT THE REQUEST OF THE CONTRACTOR TO MAKE WASTE DETERMINATION. THESE MATERIALS INCLUDE: FIRE DOORS, ELECTRICAL COMPONENTS AND MECHANICAL FLANGE GASKETS.

C. ALL QUANTITIES AND LOCATIONS ARE ESTIMATES. THE ABATEMENT CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITIES AND EXACT LOCATIONS IN PREPARING BIDS AND EXECUTING WORK.

D. THE OWNER/OWNER'S REPRESENTATIVE HAVE THE RIGHT TO CONTROL LOCATION OF ALL ABATEMENT CONTRACTOR'S SUPPLIES AND STORAGE.

E. THE ABATEMENT CONTRACTOR SHALL COORDINATE ON SITE WORK WITH THE OWNER'S REPRESENTATIVE, A/E, GC AND CONSULTANT TO FACILITATE THE PROMPT COMPLETION OF ALL ASPECTS OF THE ABATEMENT/RENOVATION PROJECT.

F. THE ABATEMENT CONTRACTOR IS RESPONSIBLE FOR MOVING THE OWNER'S EQUIPMENT AND/OR MATERIALS LEFT IN THE WORK AREAS AS NECESSARY TO COMPLETE ABATEMENT WORK.

G. SPECIAL CARE SHOULD BE TAKEN WHEN WORKING NEAR ELECTRIC, WATER, STEAM, AND GAS SUPPLY LINES.

H. ABATEMENT CONTRACTOR 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), OHIO EPA, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AND THE OHIO DEPARTMENT OF HEALTH (ODH).

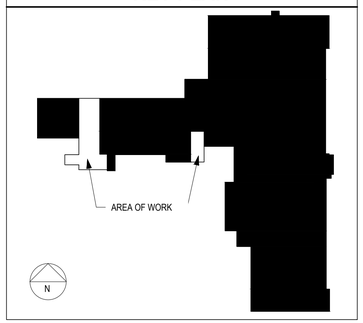
I. ABATEMENT CONTRACTOR SHALL DECONTAMINATE ALL BUILDING MATERIALS WHICH BECOME CONTAMINATED OR ARE DISTURBED FROM ASBESTOS AND OTHER HAZARDOUS MATERIAL. **ANY MECHANICAL METHODS OF REMOVAL WHICH MAY RENDER ANY CATEGORY I OR CATEGORY II MATERIALS FRIABLE MUST BE CONDUCTED IN A FULL NEGATIVE PRESSURE ENCLOSURE, INCLUDING A FALSE CEILING, WITH -0.02" OF PRESSURE DIFFERENTIAL.**

J. ABATEMENT CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF OSHA REGARDING CONFINED SPACE ENTRY INCLUDING ASSOCIATED PROGRAMS, PERMITS, TRAINING AND TESTING.

K. ABATEMENT CONTRACTOR IS RESPONSIBLE FOR REMOVING BUILDING MATERIALS TO ACCESS ALL ACM COMPONENTS. THIS INCLUDES, BUT NOT LIMITED TO WALL SYSTEMS, FLOOR LAYERS, SUSPENDED ACOUSTICAL PANEL CEILING SYSTEMS, CASEWORK, AND OTHER BUILDING MATERIALS, IF PRESENT.

L. ABATEMENT CONTRACTOR MAY UTILIZE THE OWNER'S WATER AND POWER SUPPLY FOR ALL ABATEMENT RELATED ACTIVITIES.

KEY PLAN



Lawhon & Associates, Inc.
1441 KING AVENUE
COLUMBUS, OHIO 43212
PHONE: (614) 481-8600

DESIGNED BY: LAWHON & ASSOC.

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APPVD.*	DATE

FIRST FLOOR ABATEMENT PLAN

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

MCES 130075-64

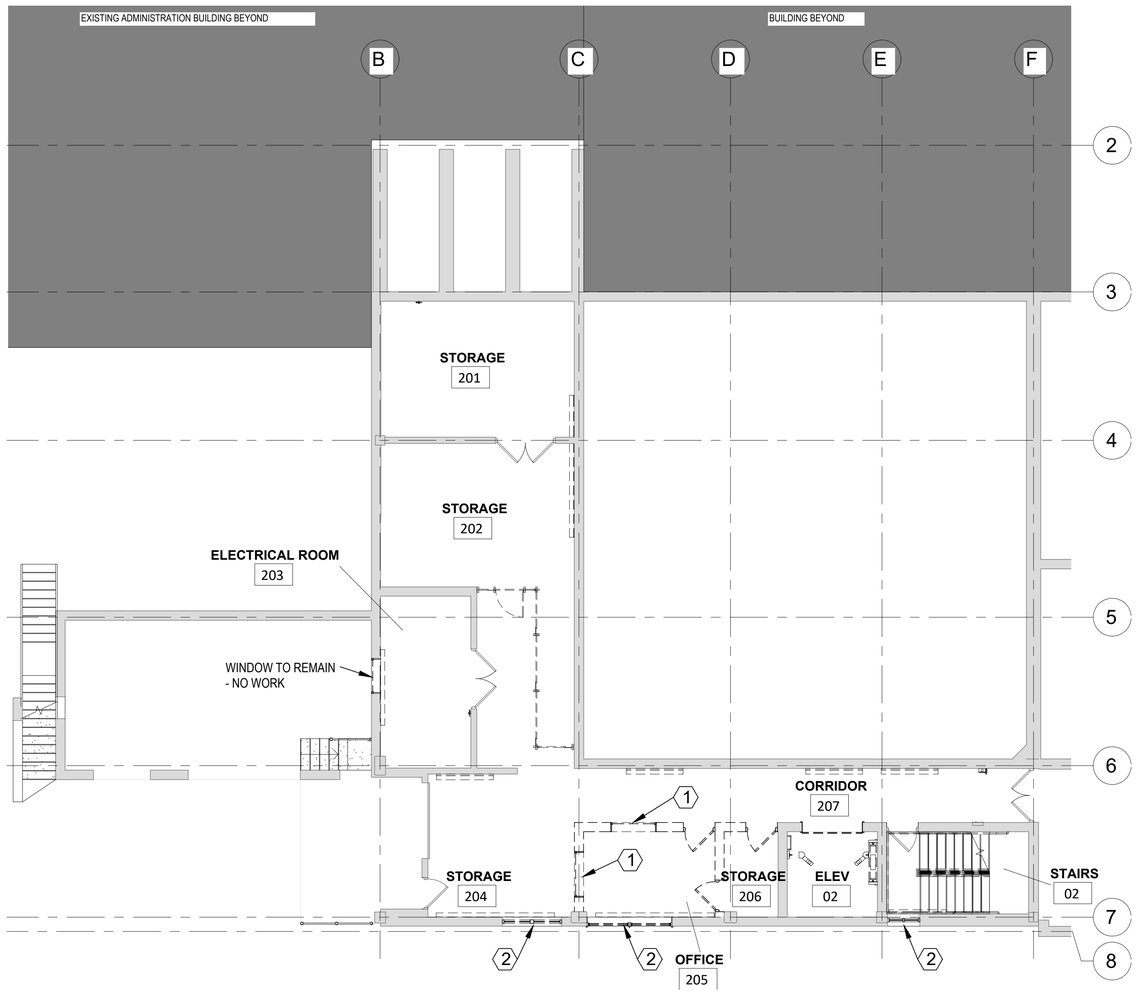
2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO.

HM-100

PROJ NO.: 25013

DATE: 06/08/2026



1 SECOND FLOOR PLAN ABATEMENT

1/8" = 1'-0"

N

CODED NOTES

1. HAZARDOUS MATERIALS ABATEMENT CONTRACTOR (HMAC) SHALL ACCESS, REMOVE AND DISPOSE OF INTERIOR WINDOW WITH ASBESTOS CONTAINING GLAZING COMPOUND. ENTIRE WINDOW SHALL BE REMOVE, WRAPPED IN TWO LAYERS OF 6-MIL POLY AND DISPOSED OF AS ASBESTOS CONTAINING WASTE. 2 EACH.
2. HMAC SHALL ACCESS, REMOVE AND DISPOSE OF ASSUMED ASBESTOS CONTAINING EXTERIOR WINDOW CAULKING PRIOR TO DEMOLITION OF WINDOW BY CONTRACTOR; 3 WINDOW OPENINGS.

GENERAL NOTES

A. LAWHON & ASSOCIATES WILL BE CONDUCTING ON-SITE MONITORING AND CLEARANCE TESTING OF ABATEMENT ACTIVITIES. HMAC SHALL NOTIFY LAWHON PROJECT MANAGER AT LEAST 10 DAYS PRIOR TO THE START OF ABATEMENT WORK. MR. JORDAN MEDERER IS THE LAWHON PM AND CAN BE REACHED AT JMEDERER@LAWHON-ASSOC.COM OR AT 614-481-8600, EXTENSION 142.

B. THE FOLLOWING MATERIALS HAVE BEEN ASSUMED TO CONTAIN ASBESTOS. ABATEMENT CONTRACTOR MUST INCLUDE ABATEMENT/ DEMOLITION OF THESE MATERIALS IN THE BASE BID. COORDINATE QUANTITIES AND EXACT QUANTITIES WITH THE DRAWINGS AND GC. AT THE TIME OF CONSTRUCTION, LAWHON CAN TEST THESE MATERIALS AT THE REQUEST OF THE CONTRACTOR TO MAKE WASTE DETERMINATION. THESE MATERIALS INCLUDE: FIRE DOORS, ELECTRICAL COMPONENTS AND MECHANICAL FLANGE GASKETS.

C. ALL QUANTITIES AND LOCATIONS ARE ESTIMATES. THE ABATEMENT CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITIES AND EXACT LOCATIONS IN PREPARING BIDS AND EXECUTING WORK.

D. THE OWNER/OWNER'S REPRESENTATIVE HAVE THE RIGHT TO CONTROL LOCATION OF ALL ABATEMENT CONTRACTOR'S SUPPLIES AND STORAGE.

E. THE ABATEMENT CONTRACTOR SHALL COORDINATE ON SITE WORK WITH THE OWNER'S REPRESENTATIVE, A/E, GC AND CONSULTANT TO FACILITATE THE PROMPT COMPLETION OF ALL ASPECTS OF THE ABATEMENT/RENOVATION PROJECT.

F. THE ABATEMENT CONTRACTOR IS RESPONSIBLE FOR MOVING THE OWNER'S EQUIPMENT AND/OR MATERIALS LEFT IN THE WORK AREAS AS NECESSARY TO COMPLETE ABATEMENT WORK.

G. SPECIAL CARE SHOULD BE TAKEN WHEN WORKING NEAR ELECTRIC, WATER, STEAM, AND GAS SUPPLY LINES.

H. ABATEMENT CONTRACTOR 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), OHIO EPA, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AND THE OHIO DEPARTMENT OF HEALTH (ODH).

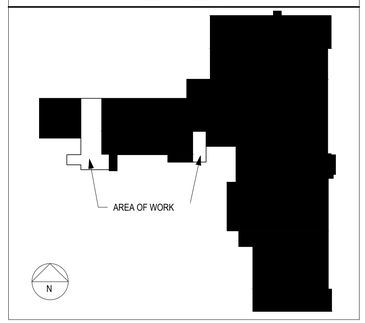
I. ABATEMENT CONTRACTOR SHALL DECONTAMINATE ALL BUILDING MATERIALS WHICH BECOME CONTAMINATED OR ARE DISTURBED FROM ASBESTOS AND OTHER HAZARDOUS MATERIAL. **ANY MECHANICAL METHODS OF REMOVAL WHICH MAY RENDER ANY CATEGORY I OR CATEGORY II MATERIALS FRIABLE MUST BE CONDUCTED IN A FULL NEGATIVE PRESSURE ENCLOSURE, INCLUDING A FALSE CEILING, WITH -0.02" OF PRESSURE DIFFERENTIAL.**

J. ABATEMENT CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF OSHA REGARDING CONFINED SPACE ENTRY INCLUDING ASSOCIATED PROGRAMS, PERMITS, TRAINING AND TESTING.

K. ABATEMENT CONTRACTOR IS RESPONSIBLE FOR REMOVING BUILDING MATERIALS TO ACCESS ALL ACM COMPONENTS. THIS INCLUDES, BUT NOT LIMITED TO WALL SYSTEMS, FLOOR LAYERS, SUSPENDED ACOUSTICAL PANEL CEILING SYSTEMS, CASEWORK, AND OTHER BUILDING MATERIALS, IF PRESENT.

L. ABATEMENT CONTRACTOR MAY UTILIZE THE OWNER'S WATER AND POWER SUPPLY FOR ALL ABATEMENT RELATED ACTIVITIES.

KEY PLAN



Lawhon & Associates, Inc.
1441 KING AVENUE
COLUMBUS, OHIO 43212
PHONE: (614) 481-8600

DESIGNED BY: LAWHON & ASSOC.

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APPVD.*	DATE

SECOND FLOOR ABATEMENT PLAN

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

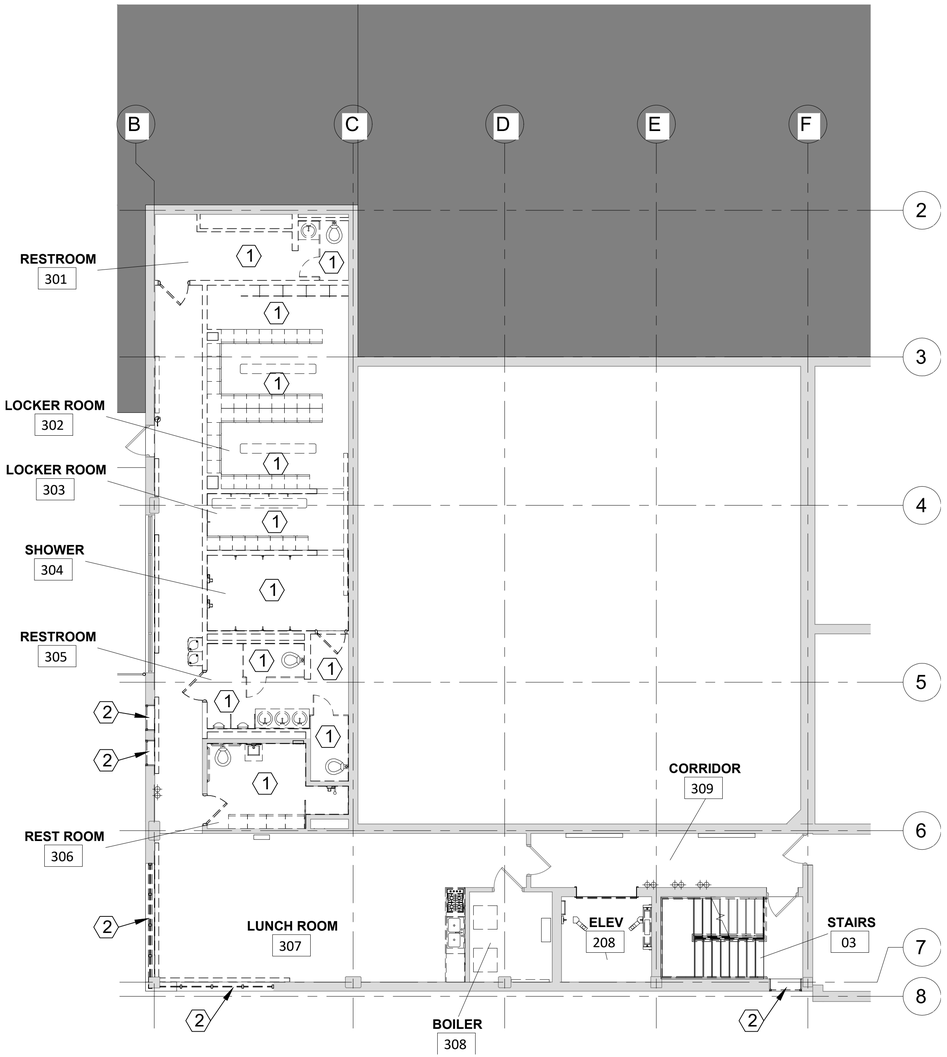
2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO.

HM-101

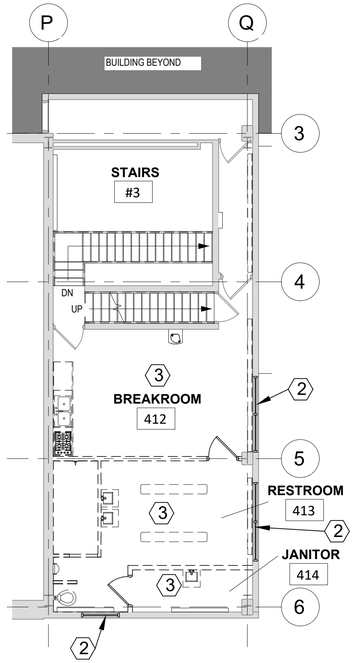
PROJ NO.: 25013

DATE: 06/08/2026



1 THIRD FLOOR PLAN ABATEMENT

1/8" = 1'-0"



2 FOURTH FLOOR PLAN ABATEMENT

1/8" = 1'-0"

CODED NOTES

1. HAZARDOUS MATERIALS ABATEMENT CONTRACTOR (HMAC) SHALL ACCESS, REMOVE AND DISPOSE OF ASBESTOS CONTAINING MORTAR ASSOCIATED WITH SPECKLED CERAMIC TILE WALL TILE SYSTEMS; APPROXIMATELY 2,240 SQUARE FEET. ALL MORTAR SHALL BE REMOVED DOWN TO A CLEAN SUBSTRATE.
2. HMAC SHALL ACCESS, REMOVE AND DISPOSE OF ASSUMED ASBESTOS CONTAINING EXTERIOR WINDOW CAULKING PRIOR TO DEMOLITION OF WINDOW BY CONTRACTOR; 8 WINDOW OPENINGS.
3. HAZARDOUS MATERIALS ABATEMENT CONTRACTOR (HMAC) SHALL ACCESS, REMOVE AND DISPOSE OF ASBESTOS CONTAINING BLACK FLOOR MASTIC (AND CONTAMINATED 12" FLOOR TILE); APPROXIMATELY 700 SQUARE FEET. ALL FLOORING LAYERS SHALL BE REMOVED DOWN TO A CLEAN SUBSTRATE. FLOORING MAY BE LOCATED BENEATH CABINETS, CASEWORK, INTERIOR PARTITION WALLS, ETC. HMAC IS RESPONSIBLE FOR ACCESS.

GENERAL NOTES

A. LAWHON & ASSOCIATES WILL BE CONDUCTING ON-SITE MONITORING AND CLEARANCE TESTING OF ABATEMENT ACTIVITIES. HMAC SHALL NOTIFY LAWHON PROJECT MANAGER AT LEAST 10 DAYS PRIOR TO THE START OF ABATEMENT WORK. MR. JORDAN MEDERER IS THE LAWHON PM AND CAN BE REACHED AT JMEDERER@LAWHON-ASSOC.COM OR AT 614-481-8600, EXTENSION 142.

B. THE FOLLOWING MATERIALS HAVE BEEN ASSUMED TO CONTAIN ASBESTOS. ABATEMENT CONTRACTOR MUST INCLUDE ABATEMENT/ DEMOLITION OF THESE MATERIALS IN THE BASE BID. COORDINATE QUANTITIES AND EXACT QUANTITIES WITH THE DRAWINGS AND GC. AT THE TIME OF CONSTRUCTION, LAWHON CAN TEST THESE MATERIALS AT THE REQUEST OF THE CONTRACTOR TO MAKE WASTE DETERMINATION. THESE MATERIALS INCLUDE: FIRE DOORS, ELECTRICAL COMPONENTS AND MECHANICAL FLANGE GASKETS.

C. ALL QUANTITIES AND LOCATIONS ARE ESTIMATES. THE ABATEMENT CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITIES AND EXACT LOCATIONS IN PREPARING BIDS AND EXECUTING WORK.

D. THE OWNER/OWNER'S REPRESENTATIVE HAVE THE RIGHT TO CONTROL LOCATION OF ALL ABATEMENT CONTRACTOR'S SUPPLIES AND STORAGE.

E. THE ABATEMENT CONTRACTOR SHALL COORDINATE ON SITE WORK WITH THE OWNER'S REPRESENTATIVE, A/E, GC AND CONSULTANT TO FACILITATE THE PROMPT COMPLETION OF ALL ASPECTS OF THE ABATEMENT/RENOVATION PROJECT.

F. THE ABATEMENT CONTRACTOR IS RESPONSIBLE FOR MOVING THE OWNER'S EQUIPMENT AND/OR MATERIALS LEFT IN THE WORK AREAS AS NECESSARY TO COMPLETE ABATEMENT WORK.

G. SPECIAL CARE SHOULD BE TAKEN WHEN WORKING NEAR ELECTRIC, WATER, STEAM, AND GAS SUPPLY LINES.

H. ABATEMENT CONTRACTOR 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), OHIO EPA, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AND THE OHIO DEPARTMENT OF HEALTH (ODH).

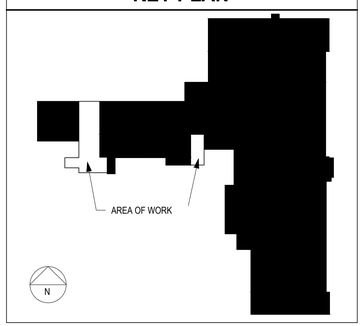
I. ABATEMENT CONTRACTOR SHALL DECONTAMINATE ALL BUILDING MATERIALS WHICH BECOME CONTAMINATED OR ARE DISTURBED FROM ASBESTOS AND OTHER HAZARDOUS MATERIAL. **ANY MECHANICAL METHODS OF REMOVAL WHICH MAY RENDER ANY CATEGORY I OR CATEGORY II MATERIALS FRIABLE MUST BE CONDUCTED IN A FULL NEGATIVE PRESSURE ENCLOSURE, INCLUDING A FALSE CEILING, WITH -0.02" OF PRESSURE DIFFERENTIAL.**

J. ABATEMENT CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF OSHA REGARDING CONFINED SPACE ENTRY INCLUDING ASSOCIATED PROGRAMS, PERMITS, TRAINING AND TESTING.

K. ABATEMENT CONTRACTOR IS RESPONSIBLE FOR REMOVING BUILDING MATERIALS TO ACCESS ALL ACM COMPONENTS. THIS INCLUDES, BUT NOT LIMITED TO WALL SYSTEMS, FLOOR LAYERS, SUSPENDED ACOUSTICAL PANEL CEILING SYSTEMS, CASEWORK, AND OTHER BUILDING MATERIALS, IF PRESENT.

L. ABATEMENT CONTRACTOR MAY UTILIZE THE OWNER'S WATER AND POWER SUPPLY FOR ALL ABATEMENT RELATED ACTIVITIES.

KEY PLAN



Lawhon & Associates, Inc.
1441 KING AVENUE
COLUMBUS, OHIO 43212
PHONE: (614) 481-8600

DESIGNED BY: LAWHON & ASSOC.

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APPVD.*	DATE

THIRD & FOURTH FLOOR ABATEMENT PLAN

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

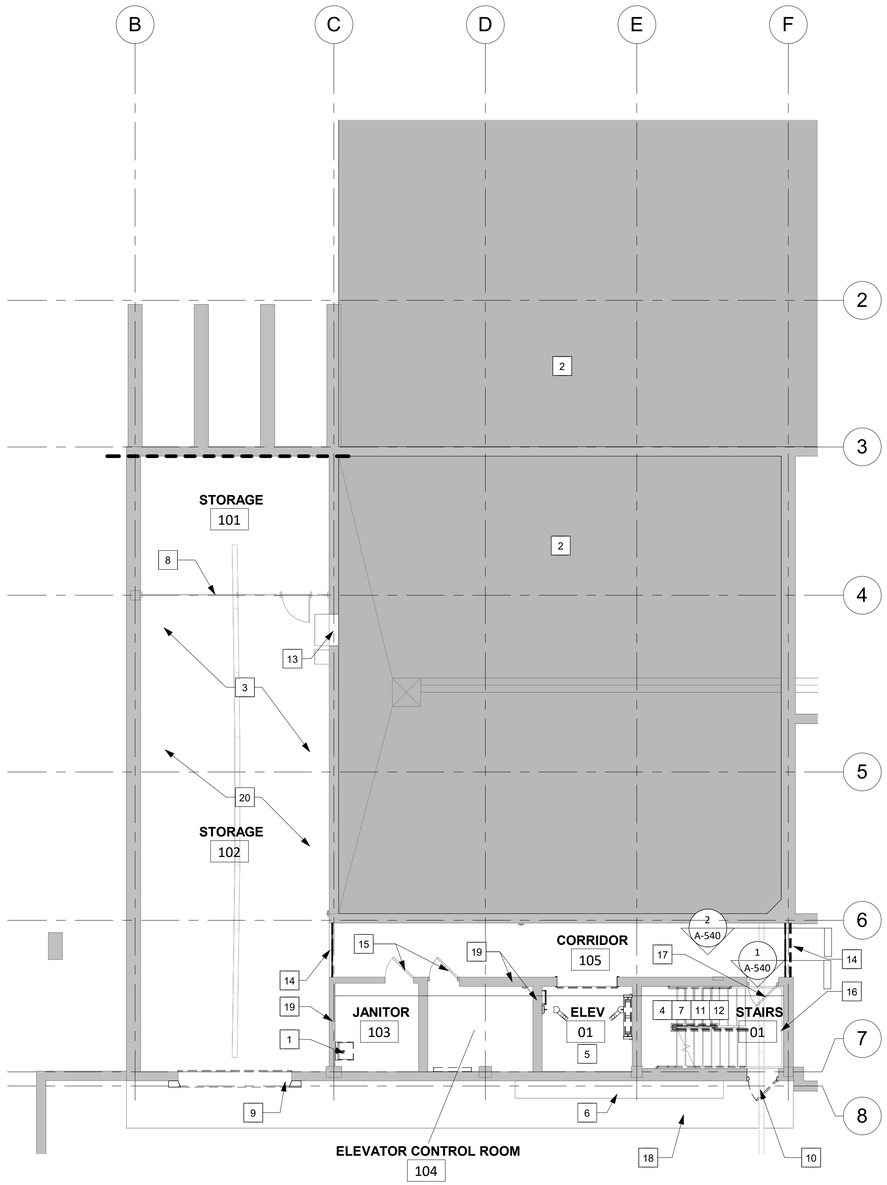
SHEET NO.

HM-102

PROJ NO.: 25013

DATE: 06/08/2026

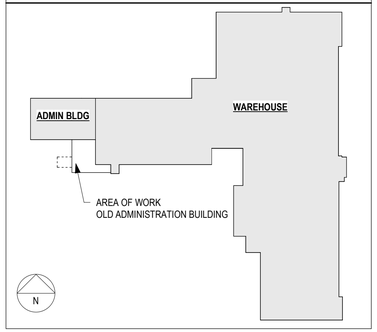
1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"

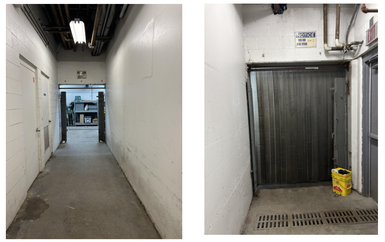


1 DEMO PLAN - FIRST FLOOR

1/8" = 1'-0"

KEY PLAN





2 PHOTO - METAL GATE

FOR REFERENCE ONLY



3 PHOTO - DOOR FRAME WALL OPENING

FOR REFERENCE ONLY

GENERAL NOTES - DEMOLITION

A. THE GENERAL CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH HAZARDOUS MATERIAL ABATEMENT CONTRACTOR.

B. THE GENERAL CONTRACTOR SHALL COMPLETE ALL SELECTIVE DEMOLITION WORK REQUIRED IN ROOMS TO BE COMPLETELY REMODELED, EXCEPT THAT WHICH IS NOTED OTHERWISE. WORK INCLUDES, BUT IS NOT LIMITED TO (COORDINATE LIMITS WITH FLOOR PLANS):

1. PARTITIONS INDICATED WITH DASHED LINES.
2. DOORS, FRAMES, & HARDWARE INDICATED AS DASHED LINES.
3. EXISTING FLOORING FINISH & ADHESIVES.
4. EXISTING CEILING FINISH & ANCHORAGE DEVICES.
5. EXISTING WALL BASE.
6. EXISTING PLUMBING SYSTEMS BACK TO POINT CONCEALED BY CONSTRUCTION OR AS REQUIRED FOR NEW EXTENT OF CONSTRUCTION FOR ALL CONTRACTORS INCLUDING, BUT NOT LIMITED TO, VALVES, HANGERS, INSULATION, & FLOOR DRAINS.
7. EXISTING HVAC SYSTEMS BACK TO POINT CONCEALED BY NEW CONSTRUCTION OR AS REQUIRED FOR NEW CONSTRUCTION BY ALL CONTRACTORS INCLUDING, BUT NOT LIMITED TO:
   a. ALL DUCTS, DIFFUSERS, DAMPERS, GRILLES, THERMOSTATS, INSULATION, & HANGERS.
   b. ALL HOT WATER STEAM & CONDENSATE PIPING, INSULATION, VALVES, & HANGERS.
8. EXISTING ELECTRICAL SYSTEMS BACK TO A POINT CONCEALED BY NEW CONSTRUCTION OR AS REQUIRED FOR NEW CONSTRUCTION BY ALL CONTRACTORS INCLUDING, BUT NOT LIMITED TO :
   a. ALL LIGHTS, SWITCHES, RECEPTACLES, PANELBOARDS, SPEAKERS, TELEPHONE DEVICES, & CLOCKS.
   b. ABANDONED CONDUIT, WIRE, JUNCTION BOXES, & HANGERS.

C. DEMOLISH ALL TACK BOARDS, DISPLAY CASES, MARKER BOARDS, ETC. MOUNTED TO WALLS.

D. THE CONTRACTOR SHALL SCHEDULE ALL INTERRUPTIONS OF UTILITIES WITH THE OWNER.

E. MAINTAIN & PROTECT EXISTING EXTERIOR WINDOW SYSTEMS (GLAZING, FRAMES, & WINDOW SILLS) TO REMAIN.

F. THE OWNER WILL OCCUPY ADJACENT BUILDING AREAS DURING CONSTRUCTION PERIOD. CONTRACTOR TO COORDINATE ACCESS TO ANY RESTRICTED AREAS WITH THE OWNER.

G. CONTRACTOR FOR THE PORTION OF THE WORK INDICATED ON PLAN, IS TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS & THOSE INDICATED ON DRAWINGS SHOULD BE REPORTED TO THE ARCHITECT IMMEDIATELY.

H. ALL DAMAGE TO WALLS, FLOOR, & FIXTURES INCURRED BY REMOVAL OF ITEMS OR DEMOLITION WORK IS TO BE PATCHED & REFINISHED TO MATCH SURROUNDING.

I. PROVIDE ALL SELECTIVE BUILDING DEMOLITION WORK REQUIRED TO COMPLETE ALL NEW WORK & REMODELING WORK WHETHER SPECIFICALLY NOTED OR NOT.

J. THE OWNER RETAINS THE RIGHT TO SALVAGE EXISTING BUILDING ITEMS

K. IMMEDIATELY PRIOR TO THE START OF DEMOLITION, THE OWNER WILL VACATE & REMOVE ALL LOOSE FURNISHINGS. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO TABLES, DESKS, & CHAIRS, KEY LOCKS, MISC HARDWARE. CONTRACTOR TO COORDINATE REMODELING SCHEDULE WITH THE OWNER & NOTIFY THEM OF START DATE TWO WEEKS & AT 72 HOURS IN ADVANCE.

L. COORDINATE LIMITS OF SELECTIVE DEMOLITION OF MECHANICAL/ELECTRICAL SYSTEMS WITH THE PLUMBING, HVAC, & ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS. PLUMBING, HVAC, & ELECTRICAL CONTRACTORS ARE RESPONSIBLE FOR:

1. IDENTIFYING TERMINATION POINTS OF DEMOLITION
2. TEMPORARY SHUT DOWN & CAPPING EXISTING ACTIVE PIPE, DUCTS, OR ELECTRICAL CIRCUITS.
3. RECONFIGURATION OF EXISTING SYSTEMS.
4. DISCONNECTING ABANDONED ELECTRICAL CIRCUITS.
5. HOLES IN EXISTING CONSTRUCTION REQUIRED FOR NEW CONSTRUCTIONS, UON

M. PATCH & REFINISH ALL LOCATIONS WHERE EQUIPMENT, DUCTS, CONDUITS, ETC. HAVE BEEN REMOVED. COORDINATE WITH MEP DRAWINGS.

N. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL UNDERGROUND UTILITIES AND TO LOCATE THEM BY GPR SCANNING PRIOR TO DEMOLITION.

CODED NOTES [X]

1	REMOVE EXISTING UTILITY SINK. REFER TO PLUMBING DRAWINGS.
2	NO WORK, UON.
3	EXISTING EXPOSED CEILING TO REMAIN.
4	EXISTING STAIRS TO REMAIN. PREP FOR PAINT.
5	REMOVE EXISTING ELEVATOR CABINET AND EQUIPMENT. REFER TO ELEVATOR SPECIFICATIONS.
6	EXISTING 22"W X 22'L CURB TO REMAIN.
7	REMOVE EXISTING STAIR RAILING. EXISTING RAILING POSTS TO REMAIN. PREP FOR PAINT.
8	EXISTING FENCING AND GATE TO REMAIN.
9	REMOVE EXISTING SECTIONAL DOOR AND TRACKS.
10	REMOVE EXISTING DOOR LEAF AND HARDWARE. EXISTING FRAME TO REMAIN. PREP FOR PAINT.
11	PREP EXISTING CMU WALLS TO PAINT, DSD-1 [09 01 90.53]. REFER TO PLAN FOR FINISHES.
12	PREP EXISTING METAL DOORS AND FRAMES FOR PAINT, DSD-1 [09 01 90.53]. REFER TO DOOR SCHEDULE FOR FINISHES.
13	REMOVE EXISTING METAL FRAME AND PREP OPENING FOR NEW DOOR. REFER TO PHOTO 3/AD-100.
14	REMOVE EXISTING METAL GATE AND ALL ATTACHMENTS. REFER TO PHOTO 2/AD-100.
15	EXISTING HM DOOR TO REMAIN.
16	REMOVE EXISTING RADIANT HEATER. PATCH AND REPAIR WALL TO BE FLUSH WITH SURROUNDING. PREP FOR PAINT. REFER TO MECHANICAL DRAWINGS.
17	REMOVE PAINT FROM EXISTING GLASS IN DOOR.
18	EXISTING 5' CONCRETE APRON TO REMAIN.
19	EXISTING WALL(S) TO REMAIN.
20	REMOVE ALL EXISTING GAS/ELECTRIC CEILING MOUNTED HEATERS

SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD.	DATE

FIRST FLOOR DEMOLITION PLAN

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

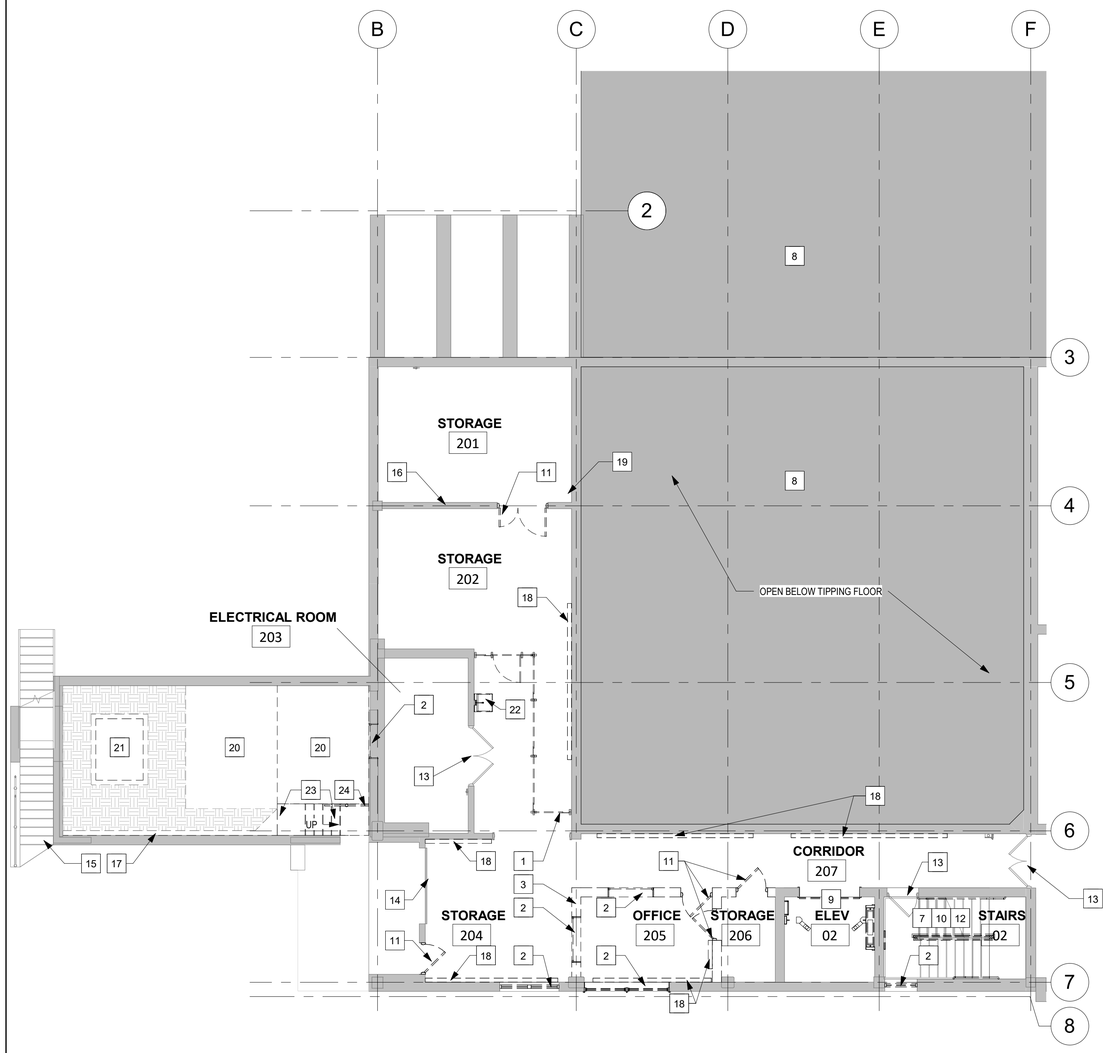
SHEET NO.

AD-100

PROJ NO.: 25013

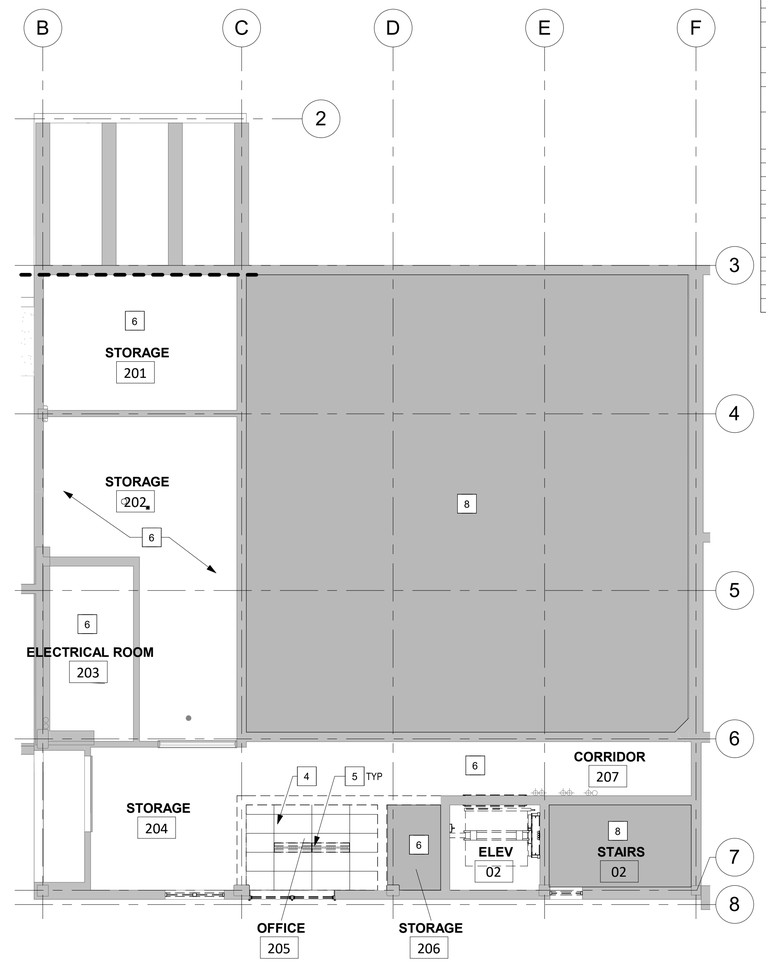
DATE: 08/19/2026

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



1 DEMO PLAN - SECOND FLOOR

1/8" = 1'-0"



2 DEMO RCP - SECOND FLOOR

1/8" = 1'-0"

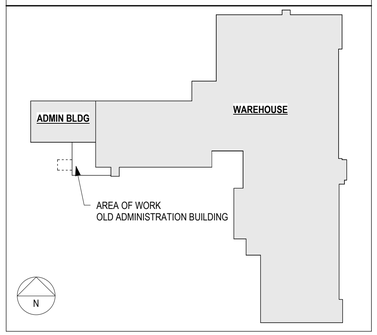
GENERAL NOTES - DEMOLITION

A. REFER TO SHEET AD-100 FOR DEMOLITION GENERAL NOTES.

CODED NOTES [X]

1	REMOVE EXISTING FENCING AND GATE.
2	REMOVE EXISTING WINDOW, FRAME, & SILL.
3	REMOVE EXISTING CMU PARTITION.
4	REMOVE EXISTING ACT CEILING PANELS & GRID.
5	REMOVE EXISTING LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
6	EXISTING EXPOSED CEILING TO REMAIN.
7	EXISTING STAIRS TO REMAIN. PREP FOR PAINT.
8	NO WORK, UON.
9	REMOVE EXISTING ELEVATOR CABINET AND EQUIPMENT. REFER TO ELEVATOR SPECIFICATIONS.
10	REMOVE EXISTING STAIR RAILING. EXISTING RAILING POSTS TO REMAIN. PREP FOR PAINT.
11	REMOVE EXISTING DOOR, FRAME, & HARDWARE.
12	PREP EXISTING CMU WALLS TO PAINT, DSD-1 [09 01 90.53]. REFER TO PLAN FOR FINISHES.
13	REMOVE EXISTING DOOR LATCHING HARDWARE. DOOR, FRAME, AND REMAINING HARDWARE IS EXISTING TO REMAIN. PATCH DOOR THAT WILL NOT BE COVERED BY PROPOSED HARDWARE.
14	EXISTING SECTIONAL DOOR TO REMAIN.
15	EXISTING CONCRETE STAIRS TO REMAIN.
16	EXISTING WALL(S) TO REMAIN.
17	REMOVE EXISTING CONCRETE CURB.
18	REMOVE EXISTING HEATER. REFER TO MECHANICAL DRAWINGS.
19	PATCH WALL AND FLOOR TO MATCH EXISTING MATERIALS AT LOCATION OF REMOVED FINTUBE HEATER, TYP.
20	REMOVE EXISTING CONCRETE SLAB.
21	REMOVE EXISTING CONRETE PIT.
22	REMOVE EXISTING UTILITY SINK. REFER TO PLUMBING DRAWINGS.
23	REMOVE EXISTING CONCRETE STEPS AND STOOP.
24	REMOVE EXISTING STAIR RAILING.

KEY PLAN



SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE

SECOND FLOOR DEMOLITION PLAN

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

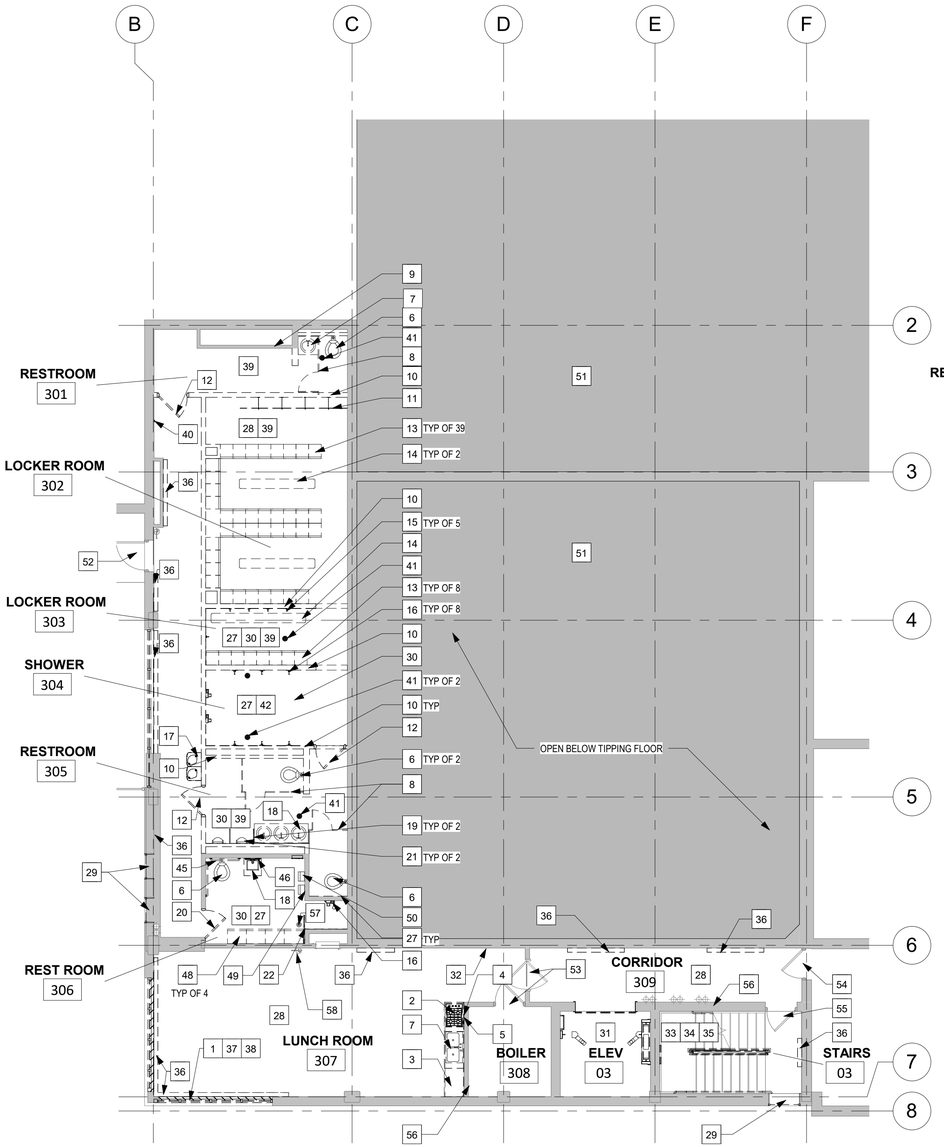
SHEET NO.

AD-101

PROJ NO.: 25013

DATE: 08/19/2026

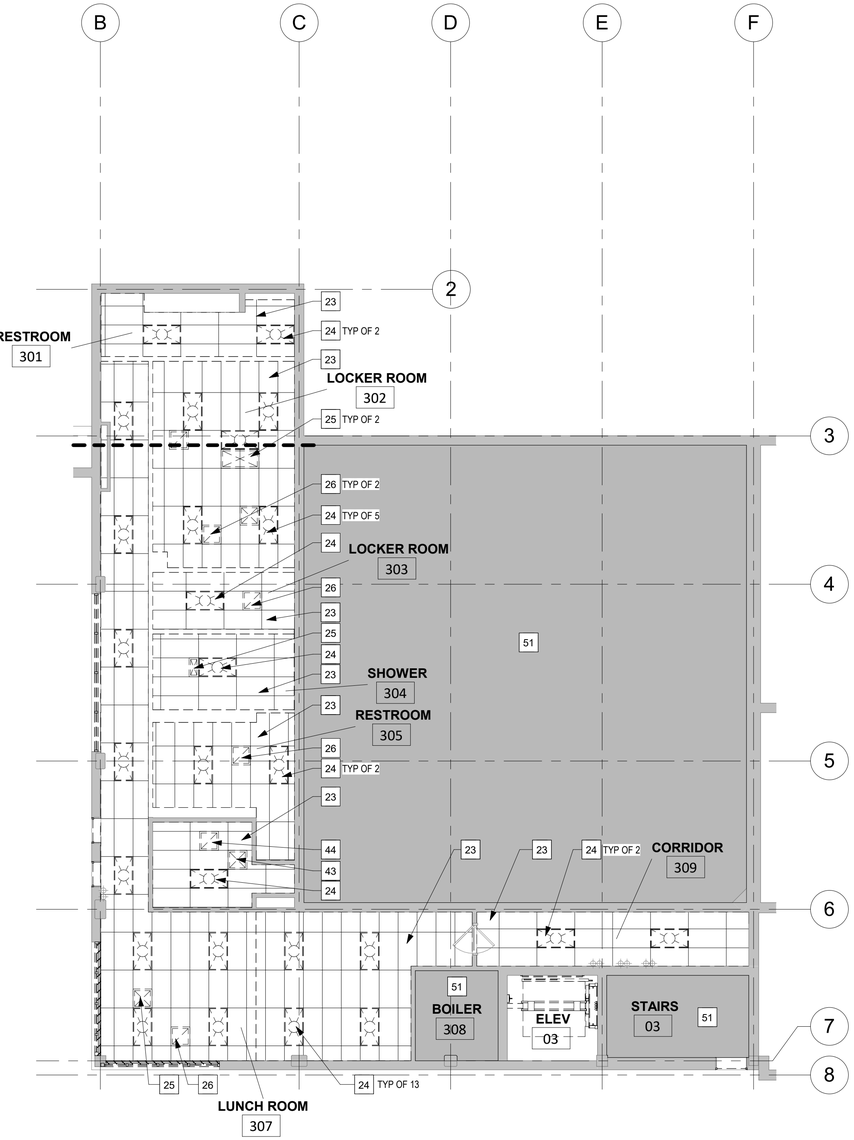
1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 DEMO PLAN - THIRD FLOOR

1/8" = 1'-0"

N



2 DEMO RCP - THIRD FLOOR

1/8" = 1'-0"

N

GENERAL NOTES - DEMOLITION

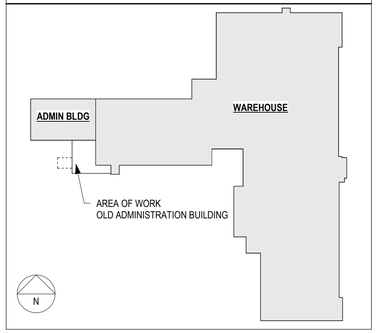
A. REFER TO SHEET AD-100 FOR DEMOLITION GENERAL NOTES.

B. REMOVE ALL GYPSUM BOARD WALL BACK TO CMU/CONCRETE WALL.

CODED NOTES X

1	REMOVE EXISTING WINDOW & FRAME.
2	REMOVE EXISTING COUNTERTOP RANGE. REFER TO MEP DRAWINGS.
3	REMOVE EXISTING COUNTERTOP, BACK SPLASH, & BASE CABINETS.
4	REMOVE EXISTING SHELF.
5	REMOVE EXISTING THERMOSTAT. REFER TO MECHANICAL DRAWINGS.
6	REMOVE EXISTING WATER CLOSET. REFER TO PLUMBING DRAWINGS.
7	REMOVE EXISTING LAVATORY. REFER TO PLUMBING DRAWINGS
8	REMOVE EXISTING WALL MOUNTED RESTROOM PARTITION.
9	EXISTING CMU CHASE TO REMAIN.
10	REMOVE EXISTING CMU PARTITION.
11	REMOVE EXISTING COAT RACK.
12	REMOVE EXISTING DOOR, FRAME, & HARDWARE.
13	REMOVE EXISTING LOCKER.
14	REMOVE EXISTING BENCH.
15	REMOVE EXISTING HOOK.
16	REMOVE EXISTING PRE FABRICATED SHOWER. REFER TO PLUMBING DRAWINGS.
17	REMOVE EXISTING WATER COOLER. REFER TO PLUMBING DRAWINGS.
18	REMOVE EXISTING LAVATORY, COUNTERTOP, & BACK SPLASH. REFER TO PLUMBING DRAWINGS.
19	REMOVE EXISTING URINAL SCREEN.
20	REMOVE EXISTING DOOR HARDWARE. TYP.
21	REMOVE EXISTING URINAL. REFER TO PLUMBING DRAWINGS.
22	REMOVE EXISTING SHOWER SCREEN.
23	REMOVE EXISTING ACT CEILING PANELS & GRID.
24	REMOVE EXISTING LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
25	REMOVE EXISTING DIFFUSER. REFER TO MECHANICAL DRAWINGS.
26	REMOVE EXISTING RETURN DIFFUSER. REFER TO MECHANICAL DRAWINGS.
27	REMOVE EXISTING WALL TILE. COORDINATE WITH HAZ MAT DRAWINGS. PATCH & PREP WALLS FOR FINISH. DSD-2 [09 01 90.52]. REFER TO FINISH SCHEDULE.
28	REMOVE EXISTING VCT TILE FLOOR & RUBBER BASE. PATCH & PREP CONCRETE FLOOR FOR FINISH. REFER TO FINISH SCHEDULE.
29	REMOVE EXISTING WINDOW, FRAME, & SILL.
30	REMOVE EXISTING TILE FLOOR & TILE WALL BASE. PATCH & PREP CONCRETE FLOOR FOR FINISH. REFER TO FINISH SCHEDULE.
31	REMOVE EXISTING ELEVATOR CABINET AND EQUIPMENT. REFER TO ELEVATOR SPECIFICATIONS.
32	REMOVE EXISTING WALL TILE.
33	REMOVE EXISTING STAIR RAILING. EXISTING RAILING POST TO REMAIN. PREP FOR PAINT.
34	EXISTING STAIRS TO REMAIN. PREP FOR PAINT.
35	SCRAPE WALLS & DOOR, PREP FOR PAINT[09 01 90.52].
36	REMOVE EXISTING HEATER. REFER TO MECHANICAL DRAWINGS.
37	EXISTING SILL TO REMAIN, PROTECT.
38	REMOVE EXISTING BLINDS. PATCH TO MATCH SURROUNDING AND PREP FOR PAINT [09 01 90.52].
39	REMOVE EXISTING GYPSUM BOARD WALL BACK TO CMU.
40	REMOVE EXISTING DOOR STOP
41	REMOVE EXISTING FLOOR DRAIN AND PIPE. INFILL FLUSH WITH EXISTING FLOOR.
42	REMOVE EXISTING BUILT UP CONCRETE FLOOR TO SLAB. PATCH & PREP CONCRETE FLOOR FOR FINISH. REFER TO FINISH SCHEDULE.
43	REMOVE EXISTING SUPPLY DIFFUSER. REFER TO MECHANICAL DRAWINGS.
44	REMOVE EXISTING RETURN REGISTER. REFER TO MECHANICAL DRAWINGS.
45	REMOVE EXISTING GRAB BAR. PATCH & REPAIR WALL TO RECEIVE FINISH.
46	REMOVE EXISTING MIRROR. PATCH AND REPAIR WALL.
48	REMOVE EXISTING LOCKERS. PATCH AND REPAIR WALL.
49	REMOVE EXISTING SANITARY NAPKIN DISPENSER.
50	REMOVE EXISTING PAPER TOWEL DISPENSER. PATCH AND PREP WALL TO RECEIVE FINISH.
51	NO WORK, UON.
52	EXISTING DOOR(S) TO REMAIN.
53	EXISTING DOOR(S) AND FRAME(S) TO REMAIN.
54	REMOVE EXISTING DOOR LATCHING HARDWARE. DOOR, FRAME, AND REMAINING HARDWARE IS EXISTING TO REMAIN. PATCH DOOR THAT WILL NOT BE COVERED BY PROPOSED HARDWARE.
55	REMOVE PAINT FROM EXISTING GLASS IN DOOR.
56	EXISTING WALL(S) TO REMAIN.
57	EXISTING DRAIN TO REMAIN.
58	EXISTING FIRE EXTINGUISHER TO REMAIN.

KEY PLAN



SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE:

THIRD FLOOR DEMOLITION PLAN

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

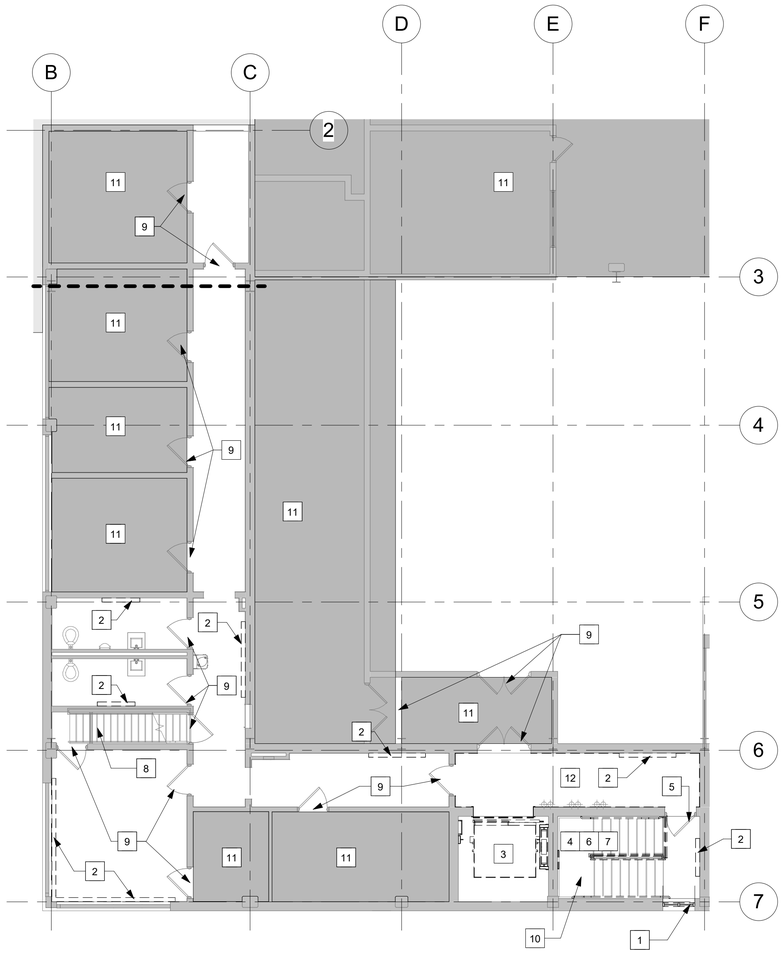
SHEET NO.

AD-102

PROJ NO.: 25013

DATE: 08/19/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 DEMO PLAN - FOURTH FLOOR

1/8" = 1'-0"

N

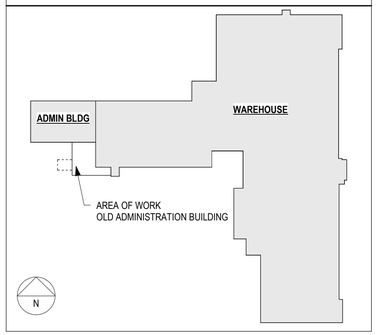
GENERAL NOTES - DEMOLITION

A. REFER TO SHEET AD-100 FOR DEMOLITION GENERAL NOTES.

CODED NOTES [X]

1	REMOVE EXISTING WINDOW, FRAME, & SILL.
2	REMOVE EXISTING HEATER. REFER TO MECHANICAL DRAWINGS.
3	REMOVE EXISTING ELEVATOR CABINET AND EQUIPMENT. REFER TO ELEVATOR SPECIFICATIONS.
4	SCRAPE WALLS & DOOR, PREP FOR PAINT[09 01 90.52].
5	REMOVE PAINT FROM EXISTING GLASS IN DOOR.
6	REMOVE EXISTING STAIR RAILING. EXISTING RAILING POST TO REMAIN. PREP FOR PAINT.
7	EXISTING STAIRS TO REMAIN. PREP FOR PAINT.
8	EXISTING STAIRS AND RAILING TO REMAIN.
9	EXISTING DOOR(S) AND FRAME(S) TO REMAIN.
10	REMOVE EXISTING ACT CEILING PANELS & GRID.
11	NO WORK, UON.
12	REMOVE EXISTING VCT TILE FLOOR & RUBBER BASE. PATCH & PREP CONCRETE FLOOR FOR FINISH. REFER TO FINISH SCHEDULE.

KEY PLAN



SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE:

FOURTH FLOOR DEMOLITION PLANS

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2590 SANDRIDGE DRIVE
MORAINE, OHIO 45439

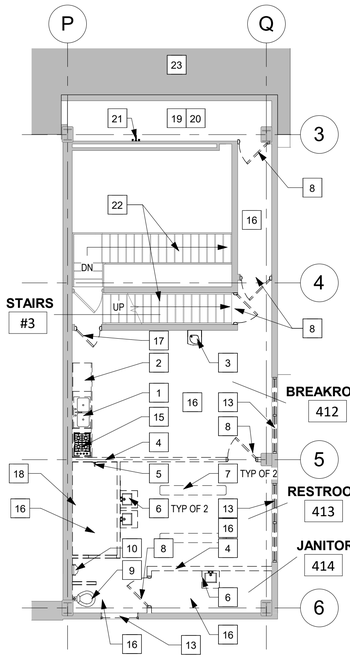
SHEET NO.

AD-103

PROJ NO.: 25013

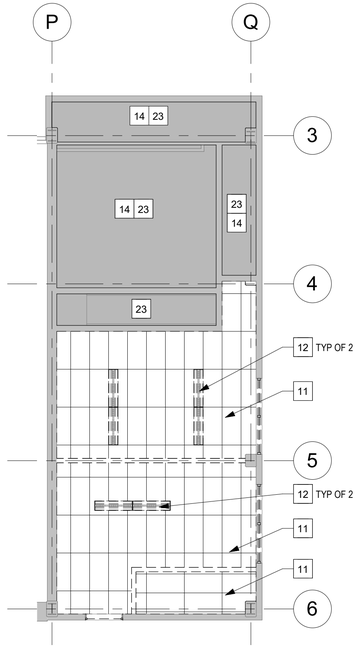
DATE: 08/19/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



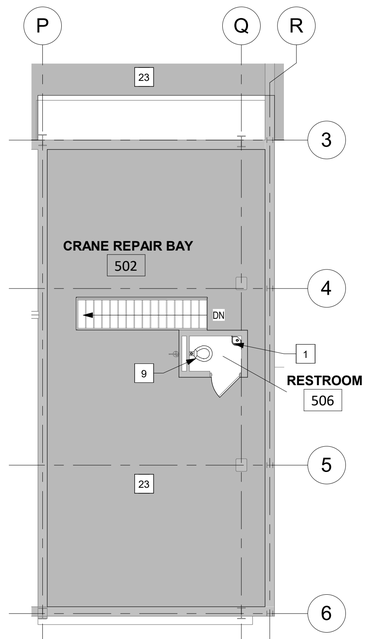
DEMO PLAN - FOURTH FLOOR @ OLD BREAK ROOM

1 — 1/8" = 1'-0"



DEMO RCP - FOURTH FLOOR @ OLD BREAK ROOM

2 — 1/8" = 1'-0"



DEMO PLAN - MEZZANINE @ OLD BREAK ROOM

3 — 1/8" = 1'-0"

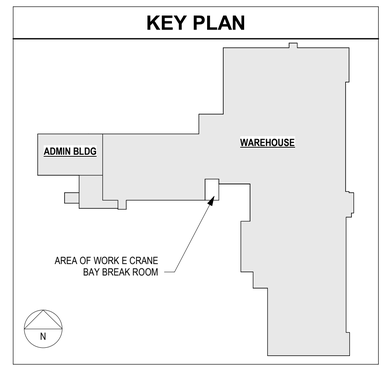
DEMOLITION GENERAL NOTES

A. REFER TO SHEET AD-100 FOR DEMOLITION GENERAL NOTES.

CODED NOTES [X]

1	REMOVE EXISTING LAVATORY. REFER TO PLUMBING DRAWINGS
2	REMOVE EXISTING COUNTERTOP, BACK SPLASH, & BASE CABINETS.
3	REMOVE EXISTING WATER COOLER. REFER TO PLUMBING DRAWINGS.
4	REMOVE EXISTING CMU PARTITION.
5	REMOVE EXISTING PRE FABRICATED SHOWER. REFER TO PLUMBING DRAWINGS.
6	REMOVE EXISTING LAVATORY, COUNTERTOP, & BACK SPLASH. REFER TO PLUMBING DRAWINGS.
7	REMOVE EXISTING BENCH.
8	REMOVE EXISTING DOOR, FRAME, & HARDWARE.
9	REMOVE EXISTING WATER CLOSET. REFER TO PLUMBING DRAWINGS.
10	REMOVE EXISTING URINAL. REFER TO PLUMBING DRAWINGS.
11	REMOVE EXISTING ACT CEILING PANELS & GRID.
12	REMOVE EXISTING LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
13	REMOVE EXISTING WINDOW, FRAME, & SILL.
14	EXISTING EXPOSED CEILING TO REMAIN.
15	REMOVE EXISTING STOVE TOP. REFER TO MEP DRAWINGS
16	REMOVE EXISTING TILE FLOOR & TILE WALL BASE. PATCH & PREP CONCRETE FLOOR FOR FINISH. REFER TO FINISH SCHEDULE.
17	REMOVE EXISTING DOOR AND HARDWARE.
18	REMOVE EXISTING WALL TILE.
19	REMOVE EXISTING WALL TILE, COORDINATE WITH HAZ MAT DRAWINGS. PATCH & PREP WALLS FOR FINISH, DSD-2 [09 01 90.52]. REFER TO FINISH SCHEDULE.
20	REMOVE EXISTING FLOOR FINISH DOWN TO SLAB.
21	REMOVE EXISTING WATER SPIGOT. REFER TO PLUMBING DRAWINGS.
22	EXISTING STAIRS AND RAILING TO REMAIN.
23	NO WORK, UON.

KEY PLAN



SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE:

FOURTH & MEZZANINE FLOOR DEMOLITION PLANS - EAST END

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

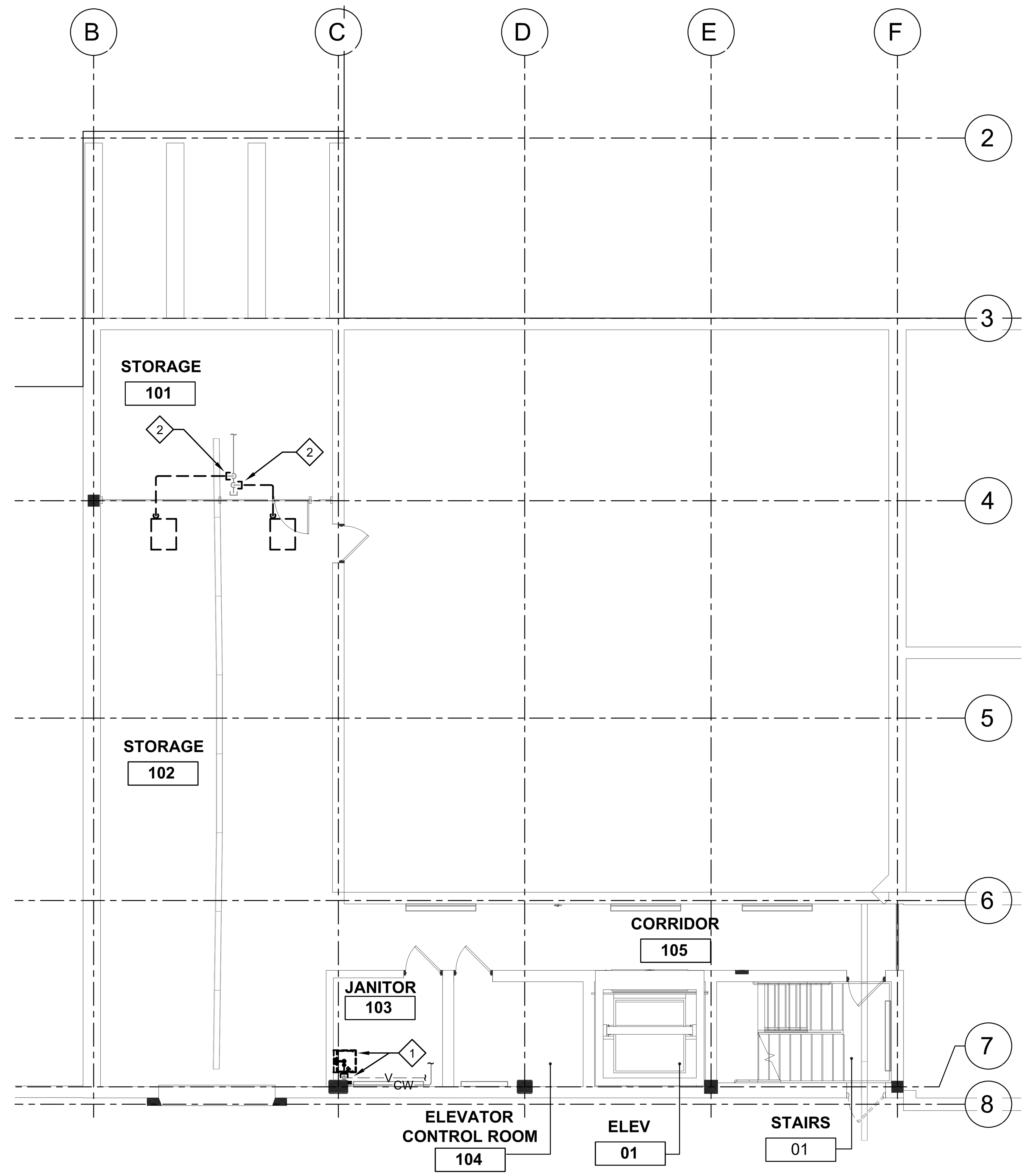
SHEET NO.

AD-104

PROJ NO.: 25013

DATE: 08/19/2026

1/16" = 1'-0" 0 4' 8' 16' | 1/8" = 1'-0" 0 2' 4' 8' | 3/16" = 1'-0" 0 2' 4' 8' | 1/4" = 1'-0" 0 1' 2' 4' | 3/8" = 1'-0" 0 1' 2' 4' | 1/2" = 1'-0" 0 6" 1' 2' | 3/4" = 1'-0" 0 3" 6" 1' 2' | 1" = 1'-0" 0 3" 6" 1' 2' | 1 1/2" = 1'-0" 0 3" 6" 1' | 3" = 1'-0" 0 1" 2" 3" 6" 1' | 6" = 1'-0" 0 1" 2" 3" 6"



1 PLUMBING FIRST FLOOR DEMOLITION PLAN
1/8"=1'-0"

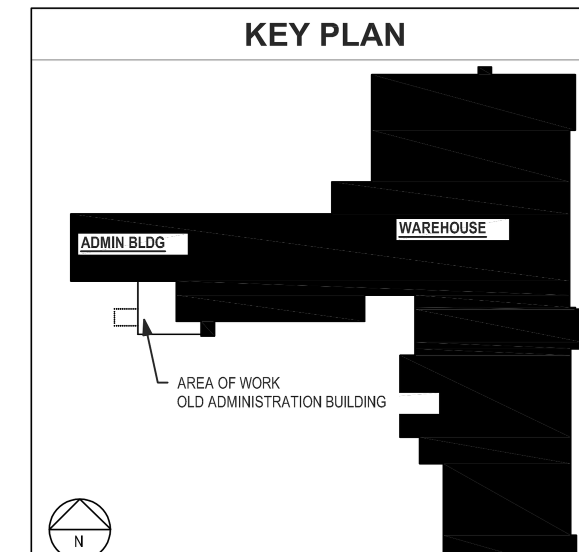
FIRE PROTECTION DEMOLITION NOTE:

REMOVE COMPLETE WET AND DRY SYSTEM FROM AREAS INCLUDED IN SCOPE OF WORK INCLUDING ALL SPRINKLER HEADS, PIPING AND SUPPORTS. SEE FIRE PROTECTION NOTE ON NEW WORK PLAN FOR INSTALLATION OF NEW SYSTEM.

◇ PLAN NOTES

1. DISCONNECT AND REMOVE EXISTING FIXTURE. REMOVE EXISTING SANITARY BACK TO STACK AND CAP. REMOVE COLD WATER PIPING BACK TO POINT INDICATED AND PREPARE PIPE END FOR NEW CONNECTION.
2. DISCONNECT AND REMOVE EXISTING NATURAL GAS PIPING TO POINT INDICATED AND CAP.

KEY PLAN



STATE OF OHIO
JOHN DAVID MILENIUS
E-56036
REGISTERED PROFESSIONAL ENGINEER
6-8-26

tec inc. engineering & design
4995 Bradenton Ave. STE 240
Dublin, OH 43017
t 614.267.4928
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC.

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APPVD:	DATE:
	06/08/26	100% CD	DM	06/08/26

PLUMBING FIRST FLOOR DEMOLITION PLAN

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

1/8" = 1'-0"

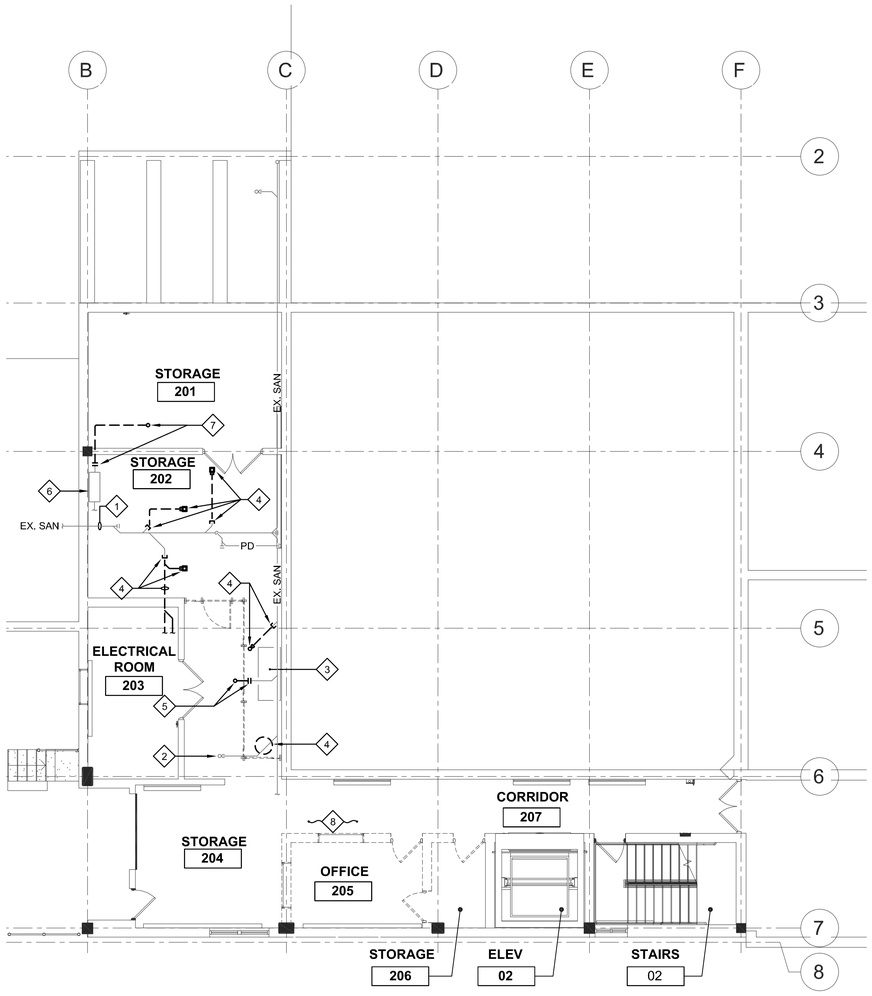
SHEET NO.

PD-100

PROJ NO.: 25013

DATE: 06/08/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 PLUMBING SECOND FLOOR DEMOLITION PLAN
1/8"=1'-0"

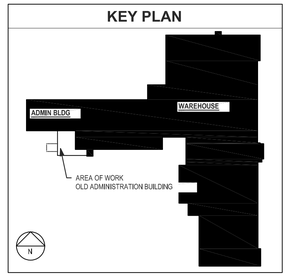
FIRE PROTECTION DEMOLITION NOTE:

REMOVE COMPLETE WET AND DRY SYSTEM FROM AREAS INCLUDED IN SCOPE OF WORK INCLUDING ALL SPRINKLER HEADS, PIPING AND SUPPORTS. SEE FIRE PROTECTION NOTE ON NEW WORK PLAN FOR INSTALLATION OF NEW SYSTEM.

PLAN NOTES

1. EXISTING SANITARY SEWER PIPING WITHIN CEILING SPACE TO REMAIN.
2. EXISTING SANITARY SEWER PIPING UP THROUGH FLOOR ABOVE TO REMAIN.
3. EXISTING DRY SPRINKLER PIPING SYSTEM TO REMAIN.
4. REMOVE EXISTING SANITARY PIPING TO POINT INDICATED AND CAP.
5. REMOVE EXISTING SANITARY PIPING TO POINT INDICATED AND PREPARE PIPE END FOR NEW CONNECTION.
6. EXISTING DOMESTIC WATER BACKFLOW ASSEMBLY TO REMAIN.
7. REMOVE EXISTING DOMESTIC COLD WATER PIPING FROM THIRD FLOOR TO POINT INDICATED AND PREPARE PIPE END FOR NEW CONNECTION.
8. CONTRACTOR TO FIELD VERIFY ANY PLUMBING PIPES IN THIS AREA THAT ARE SUPPORTED ON THE WALL BEING DEMOLISHED TO BE SUPPORTED TO DECK.

KEY PLAN



STATE OF OHIO
JOHN DAVID MILENIUS
E-56036
REGISTERED PROFESSIONAL ENGINEER
6-8-26

4955 Bridgetown Ave. STE 240
Dublin, OH 43017
t 614.457.4900
f 614.527.5417
www.tecinc.com
tec inc.
mechanical & electrical engineering
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC.
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D:	DATE:
	06/08/26	100% CD	DM	06/08/26

PLUMBING SECOND FLOOR DEMOLITION PLAN

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

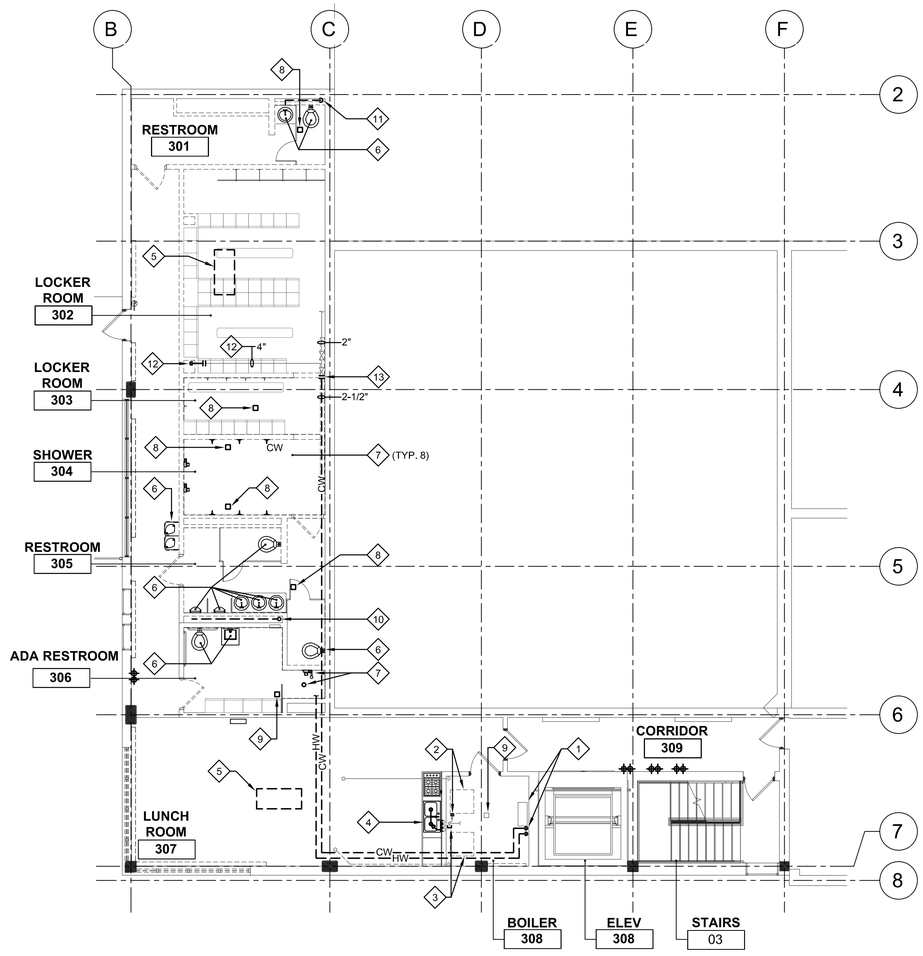
2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

1/8" = 1'-0"

SHEET NO.
PD-101

PROJ NO.: 25013
DATE: 06/08/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 PLUMBING THIRD FLOOR DEMOLITION PLAN
1/8"=1'-0"

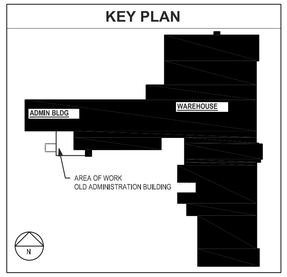
FIRE PROTECTION DEMOLITION NOTE:

REMOVE COMPLETE WET AND DRY SYSTEM FROM AREAS INCLUDED IN SCOPE OF WORK INCLUDING ALL SPRINKLER HEADS, PIPING AND SUPPORTS. SEE FIRE PROTECTION NOTE ON NEW WORK PLAN FOR INSTALLATION OF NEW SYSTEM.

PLAN NOTES

1. EXISTING TANKLESS GAS-FIRED WATER HEATER TO REMAIN. DISCONNECT AND REMOVE ALL DOMESTIC WATER PIPING SERVING FIXTURES BACK TO POINT INDICATED AND PREPARE PIPE ENDS FOR NEW CONNECTION.
2. EXISTING BOILER TO BE REMOVED BY MECHANICAL CONTRACTOR. DISCONNECT EXISTING GAS PIPING TO POINT INDICATED AND PREPARE PIPE END FOR NEW CONNECTION.
3. EXISTING BOILER TO BE REMOVED BY MECHANICAL CONTRACTOR. DISCONNECT EXISTING GAS PIPING TO POINT INDICATED AND CAP.
4. DISCONNECT AND REMOVE EXISTING FIXTURE. REMOVE DOMESTIC WATER AND FIXTURE DRAIN PIPING TO POINT INDICATED AND CAP WITHIN WALL.
5. EXISTING HEAT PUMP ABOVE CEILING REMOVED BY MECHANICAL CONTRACTOR. PLUMBING CONTRACTOR TO DISCONNECT AND REMOVE ALL DRAIN PIPING, AND COLD WATER PIPING COMPLETELY.
6. DISCONNECT AND REMOVE EXISTING FIXTURE AND ALL ASSOCIATED PIPING.
7. DISCONNECT AND REMOVE EXISTING SHOWER VALVE, SHOWER HEAD, AND ALL ASSOCIATED PIPING.
8. DISCONNECT AND REMOVE EXISTING FLOOR DRAIN.
9. EXISTING FLOOR DRAIN TO REMAIN.
10. EXISTING SANITARY STACK FROM FOURTH FLOOR TO REMAIN. DISCONNECT AND REMOVE SANITARY STACK IN THIRD FLOOR CHASE AND ALL EXISTING PIPING WITHIN CHASE. PREPARE PIPE END OF STACK IN THIRD FLOOR CEILING FOR NEW CONNECTION.
11. DISCONNECT AND REMOVE ALL ASSOCIATED PIPING SERVING WATER CLOSET AND LAVATORY AND CAP FLUSH WITH FLOOR.
12. CONTRACTOR TO FIELD VERIFY EXISTING COLD WATER RISER AND MAIN PIPING.
13. REMOVE COLD WATER PIPING BACK TO POINT INDICATED AND PREPARE PIPE END FOR NEW CONNECTION.

KEY PLAN



STATE OF OHIO
JOHN DAVID MILENIUS
E-56036
REGISTERED PROFESSIONAL ENGINEER
6-8-26

tec inc.
4955 Bradenton Ave. STE 240
Dublin, OH 43017
t 614.457.4007
f 614.457.5417
www.tecmechanical.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC.
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D:	DATE:
	06/08/26	100% CD	DM	06/08/26

PLUMBING THIRD FLOOR DEMOLITION PLAN

MCES 130075-64
2501 SANDRIDGE DRIVE
MORAINE, OHIO 45439

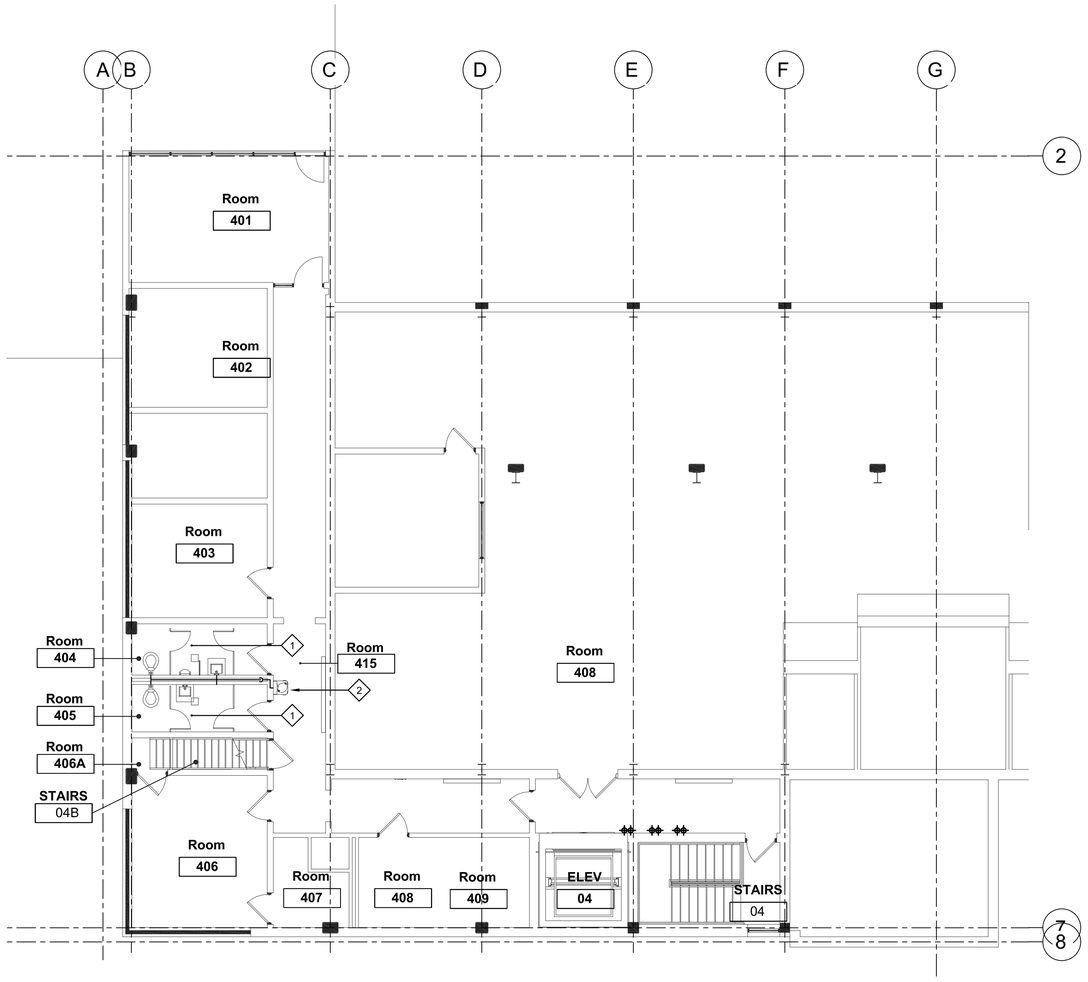
MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

1/8" = 1'-0"

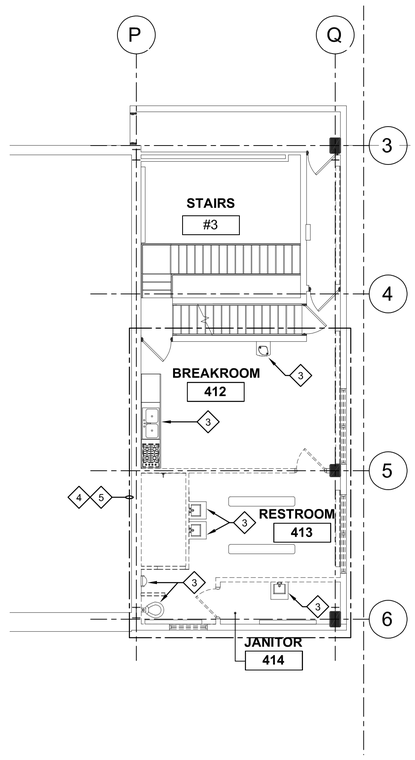
SHEET NO.
PD-102

PROJ NO.: 25013
DATE: 06/08/2026

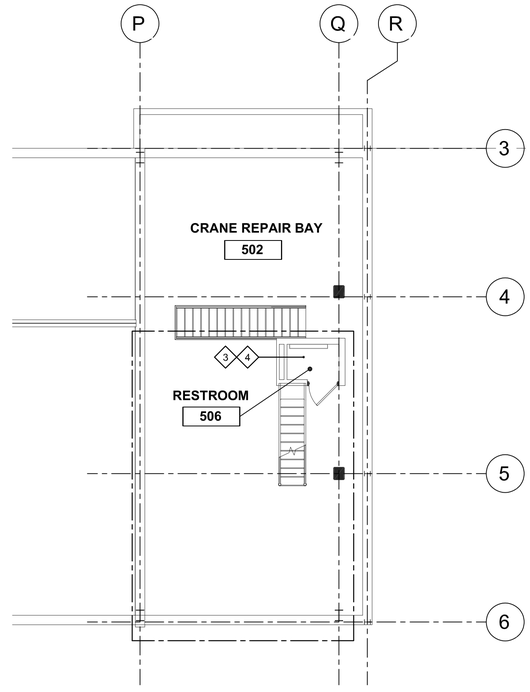
1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



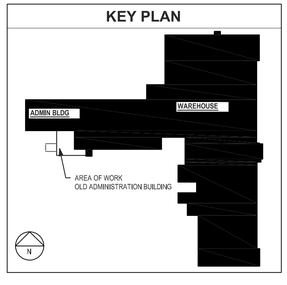
1 PLUMBING FOURTH FLOOR DEMOLITION PLAN
1/8"=1'-0"



2 PLUMBING FOURTH FLOOR DEMOLITION PLAN
1/8"=1'-0"



3 PLUMBING MEZZANINE DEMOLITION PLAN
1/8"=1'-0"

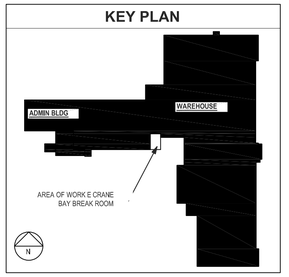


FIRE PROTECTION DEMOLITION NOTE:

EXISTING WET AND DRY SYSTEM FROM AREAS INCLUDED IN SCOPE OF WORK INCLUDING ALL SPRINKLER HEADS, PIPING AND SUPPORTS ARE TO REMAIN.

PLAN NOTES

1. EXISTING WATER CLOSET, LAVATORY, FLOOR DRAIN, AND ASSOCIATED PIPING TO REMAIN.
2. EXISTING ELECTRIC WATER COOLER AND ASSOCIATED PIPING TO REMAIN.
3. DISCONNECT AND REMOVE EXISTING FIXTURE/S AND ALL ASSOCIATED PIPING. REMOVE EXISTING SANITARY SEWER PIPING IN FLOOR BELOW BACK TO MAIN AND CAP.
4. CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF EXISTING VENT THROUGH ROOF TO REMAIN AND REMOVE ALL EXISTING VENT PIPING FROM FIXTURES BACK TO VENT THROUGH ROOF AND CAP BELOW ROOF DECK.
5. CONTRACTOR TO FIELD VERIFY AND REMOVE ALL EXISTING DOMESTIC WATER PIPING SERVING THE FOURTH FLOOR. COLD WATER PIPING TO BE CAPPED AT MAIN SERVING THE FOURTH FLOOR PLUMBING FIXTURES AND THE HOT WATER PIPING TO BE REMOVED FROM THE FIXTURES BACK TO THE HOT WATER HEAT SOURCE AND REMOVED.



STATE OF OHIO
JOHN DAVID MILENIUS
E-56036
REGISTERED PROFESSIONAL ENGINEER
6-8-26

4995 Bridgetown Ave, STE 240
Dublin, OH 43017
614.527.4567
f 614.527.5417
www.tec-inc.com
tec inc.
engineering & architecture
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC.
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DESCRIPTION	DATE	APP'D:	DATE:
	100% CD	06/08/26	DM	06/08/26

PLUMBING FOURTH FLOOR & MEZZANINE DEMOLITION PLAN

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

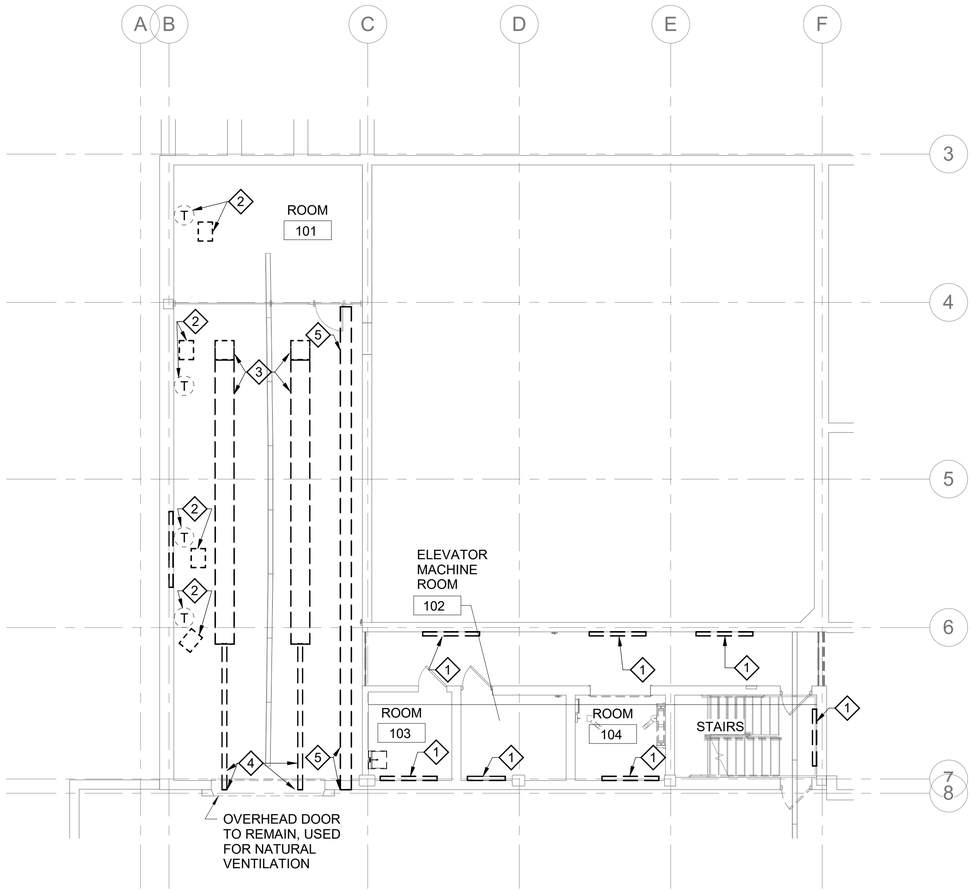
MCES 130075-64
2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

1/8" = 1'-0"

SHEET NO.
PD-103

PROJ NO.: 25013
DATE: 06/08/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 HVAC FIRST FLOOR DEMOLITION PLAN
1/8"=1'-0"

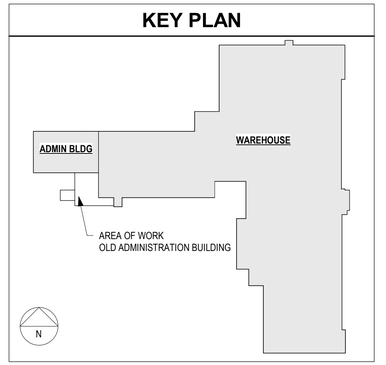
DEMOLITION - GENERAL NOTES:

1. EXISTING BOILER SYSTEM, PUMPS, CONTROLS, PIPING, ETC. SHALL BE REMOVED. REMOVE ALL ASSOCIATED PIPING AND EQUIPMENT SUPPORTS. COORDINATE WITH HMAC, AND REMOVE ALL NON-HAZARDOUS PIPING INSULATION NOT REMOVED BY THE HMAC.

DEMOLITION PLAN NOTES:

1. REMOVE FINTUBE, VALVES, INSULATION, HANGERS, SUPPORTS, AND PIPING COMPLETELY.
2. REMOVE UNIT HEATER, CONTROLS AND PIPING COMPLETELY. PATCH OPENINGS.
3. REMOVE RADIANT HEATER, BURNER, CONTROLS AND FLUE PIPING. COMPLETELY.
4. REMOVE RADIANT HEATER FLUE PIPING COMPLETELY. PATCH WALL OPENING WITH LIKE MATERIAL. SEAL WEATHER TIGHT.
5. REMOVE ABANDONED DUCTWORK COMPLETELY. PATCH WALL OPENING WITH LIKE MATERIAL, SEAL WEATHER TIGHT.

KEY PLAN



STATE OF OHIO
JOHN DAVID MILENIUS
E-56026
PROFESSIONAL ENGINEER
6-8-26

tec inc.
engineers & surveyors
#953 Finddenton Ave, STE 240
Dublin, OH 43017
(614) 457-3777
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION
	06-08-2026	100% CD
1	08/03/2026	DESIGN REVISIONS

HVAC FIRST FLOOR DEMOLITION PLAN

MCES 130075-04

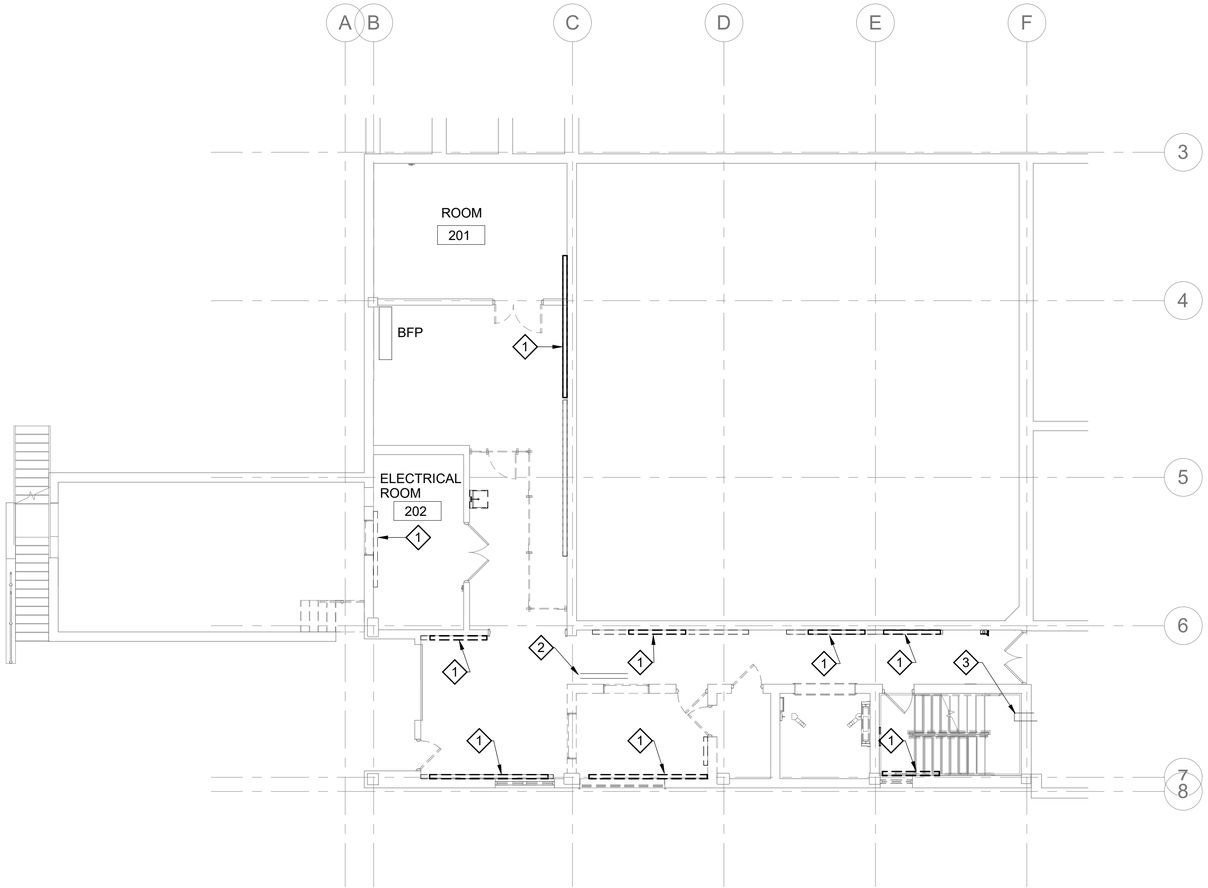
MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO.
MD-100

PROJ NO.: 25013
DATE: 06/08/2026

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



GENERAL NOTES:

REFER TO DRAWINGS MD-100 AND M-100 FOR GENERAL NOTES

DEMOLITION PLAN NOTES:

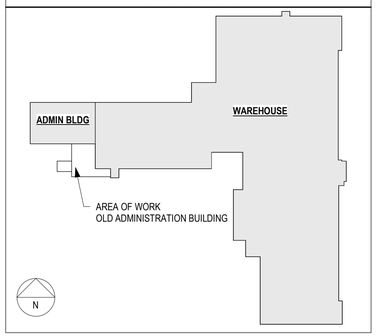
1. REMOVE FINTUBE, VALVES, INSULATION, HANGERS, SUPPORTS, AND PIPING COMPLETELY.
2. REMOVE PIPES IN UNISTRUCT TRAPEZE.
3. REMOVE BOILER PIPING IN STAIRWELL. PATCH WALL WITH SAME MATERIALS AND PAINT TO MATCH ADJACENT WALL(S).

1 HVAC SECOND FLOOR DEMOLITION PLAN

1/8"=1'-0"

N

KEY PLAN



STATE OF OHIO
JOHN DAVID MILENIUS
E-56036
PROFESSIONAL ENGINEER
6-8-26

tec inc.
Engineering & Architecture
#953 Bridgeton Ave, STE 240
Dublin, OH 43017
(614) 267-5437
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION
	06-08-2026	100% CD
1	08/03/2026	DESIGN REVISIONS

HVAC SECOND FLOOR DEMOLITION PLAN

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2590 SANDRIDGE DRIVE
MORAINE, OHIO 45439

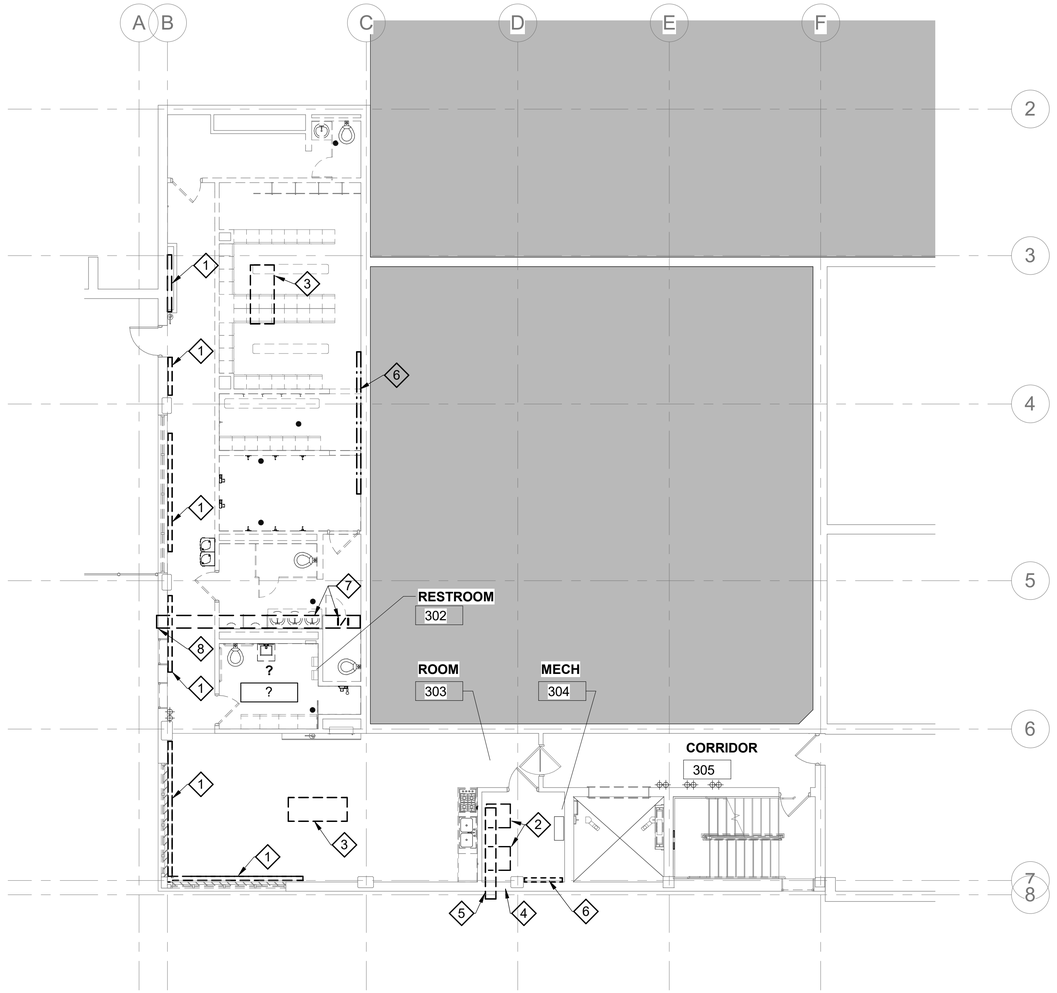
SHEET NO.

MD-101

PROJ NO.: 25013

DATE: 06/08/2026

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



1 HVAC THIRD FLOOR DEMOLITION PLAN
1/8"=1'-0"

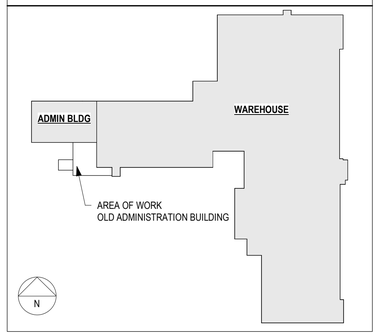
GENERAL NOTES:

REFER TO DRAWINGS MD-100 AND M-100 FOR GENERAL NOTES

◇ DEMOLITION PLAN NOTES:

1. REMOVE FINTUBE, VALVES, INSULATION, HANGERS, SUPPORTS, AND PIPING COMPLETELY.
2. REMOVE BOILER, FLUE AND PIPING COMPLETELY.
3. REMOVE HEAT PUMP, CONTROLS AND DUCTWORK COMPLETELY.
4. EXISTING LOUVER TO REMAIN.
5. REMOVE FLUE COMPLETELY AND FILL-IN EXISTING WALL OPENING. MATCH EXISTING CONSTRUCTION MATERIALS AND COLOR(S). ARCHITECT TO APPROVE COLOR(S).
6. FINTUBE PREVIOUSLY REMOVED. REMOVE ALL PIPING, SUPPORTS, CONTROLS, ETC.
7. REMOVE EXHAUST GRILLE AND DUCTWORK & SUPPORTS COMPLETELY.
8. REMOVE WALL MOUNTED EXHAUST FAN. REFER TO NEW WORK PLAN.

KEY PLAN



STATE OF OHIO
JOHN DAVID MILENIUS
E-56036
REGISTERED PROFESSIONAL ENGINEER
6-8-26

tec inc.
engineering & science
#953 Bridgeton Ave, STE 240
Dublin, OH 43017
(614) 267-4777
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION
	06-08-2026	100% CD
1	08/03/2026	DESIGN REVISIONS

HVAC THIRD FLOOR DEMOLITION PLAN

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO.

MD-102

PROJ NO.: 25013

DATE: 06/08/2026

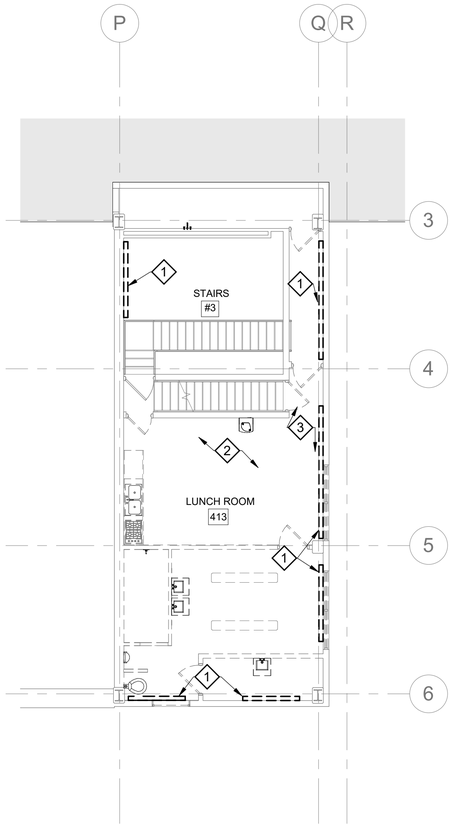
1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"

GENERAL NOTES:

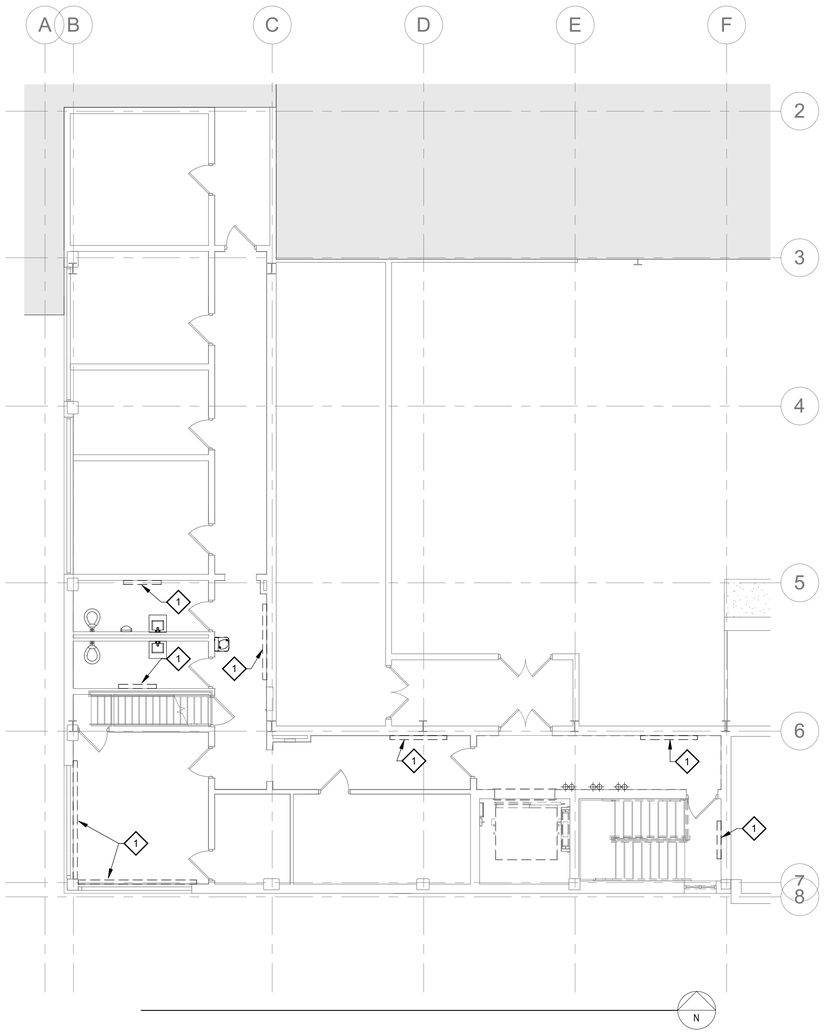
REFER TO DRAWINGS MD-100 AND M-100 FOR GENERAL NOTES

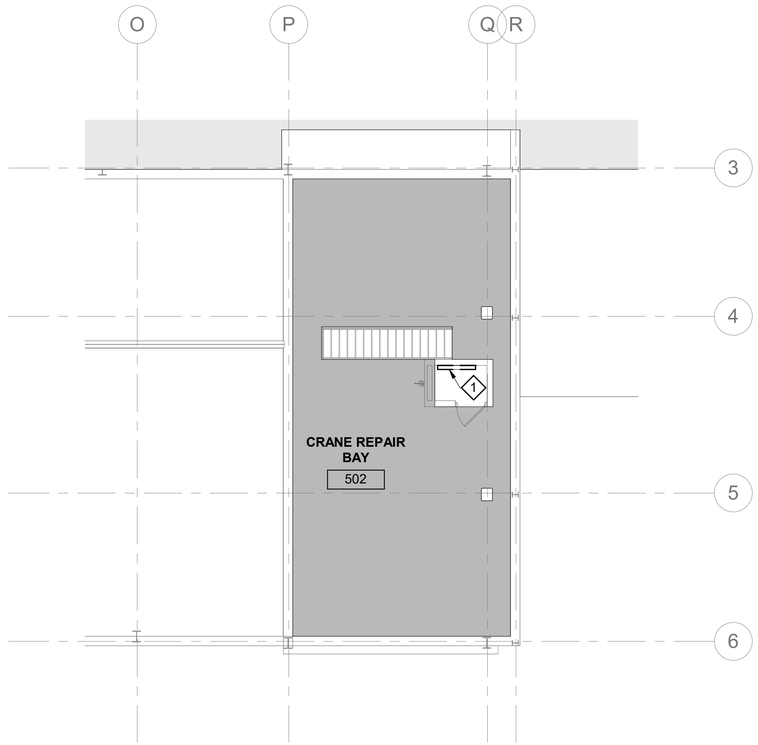
DEMOLITION PLAN NOTES:

1. REMOVE FINTUBE, VALVES, INSULATION, HANGERS, SUPPORTS, PIPING AND CONTROLS COMPLETELY.
2. REMOVE ALL HEATERS, PIPING, ECT. IN THIS AREA. CAP PIPING AS IT EXITS THIS AREA, TO BE ABANDONED IN PLACE.
3. REMOVE ALL ABANDONED DUCTWORK. COORDINATE WITH GENERAL TRADES TO PATCH ALL WALL OPENINGS.



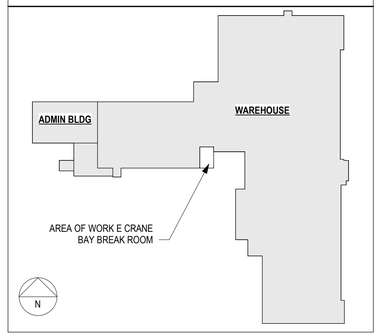
1 HVAC FOURTH FLOOR DEMOLITION PLAN
1/8"=1'-0"





2 HVAC MEZZANINE RESTROOM DEMOLITION PLAN
1/8"=1'-0"

KEY PLAN



STATE OF OHIO
JOHN DAVID MILENIUS
E-56036
PROFESSIONAL ENGINEER
6-8-26

#953 Lindenton Ave, STE 240
Dublin, OH 43017
(614) 297-7577
(614) 297-5877
www.tecinceng.com
engineering & surveying
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION
	05-08-2026	100% CD
1	08/03/2026	DESIGN REVISIONS

HVAC FOURTH FLRS & MEZZANINE DEMOLITION PLAN

MCES 130075-64

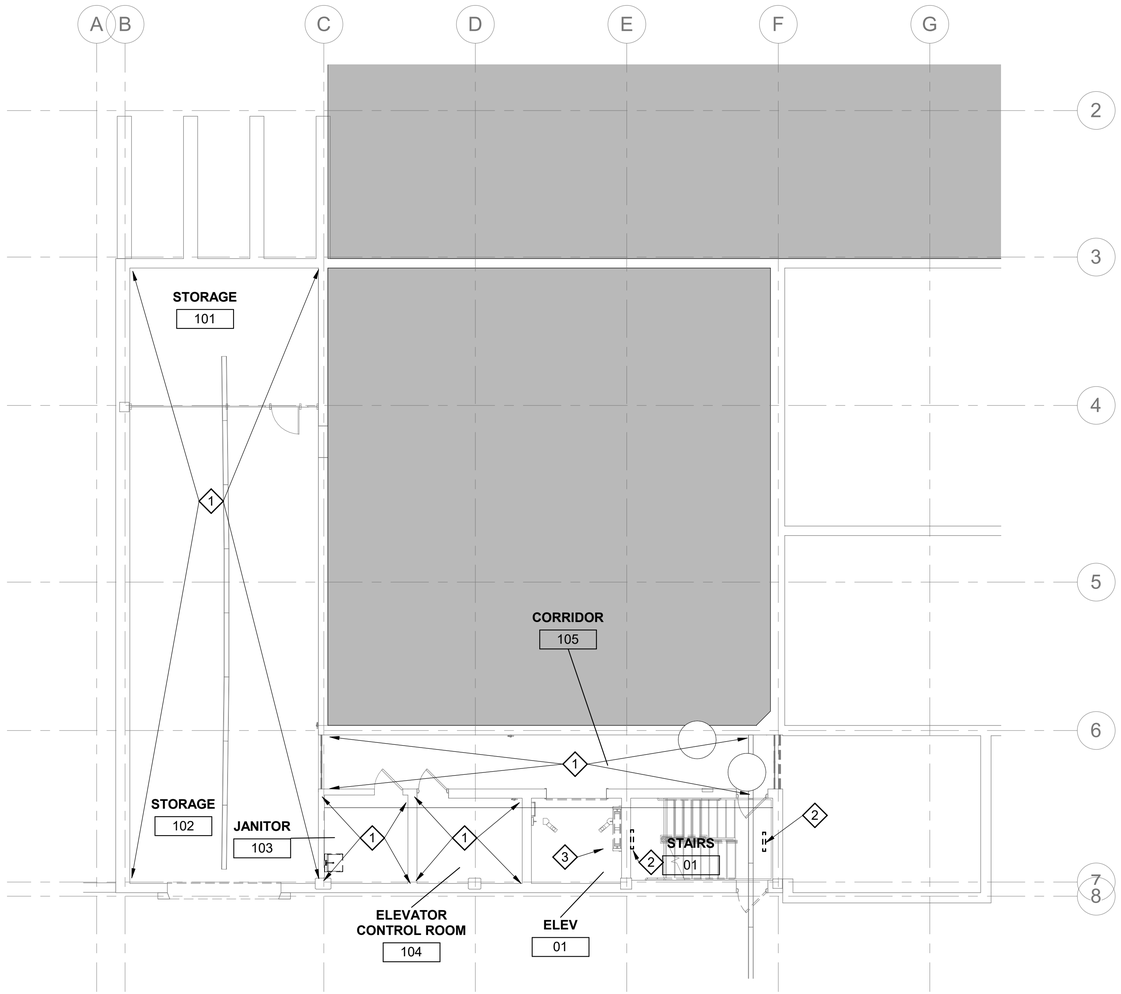
MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO.
MD-103

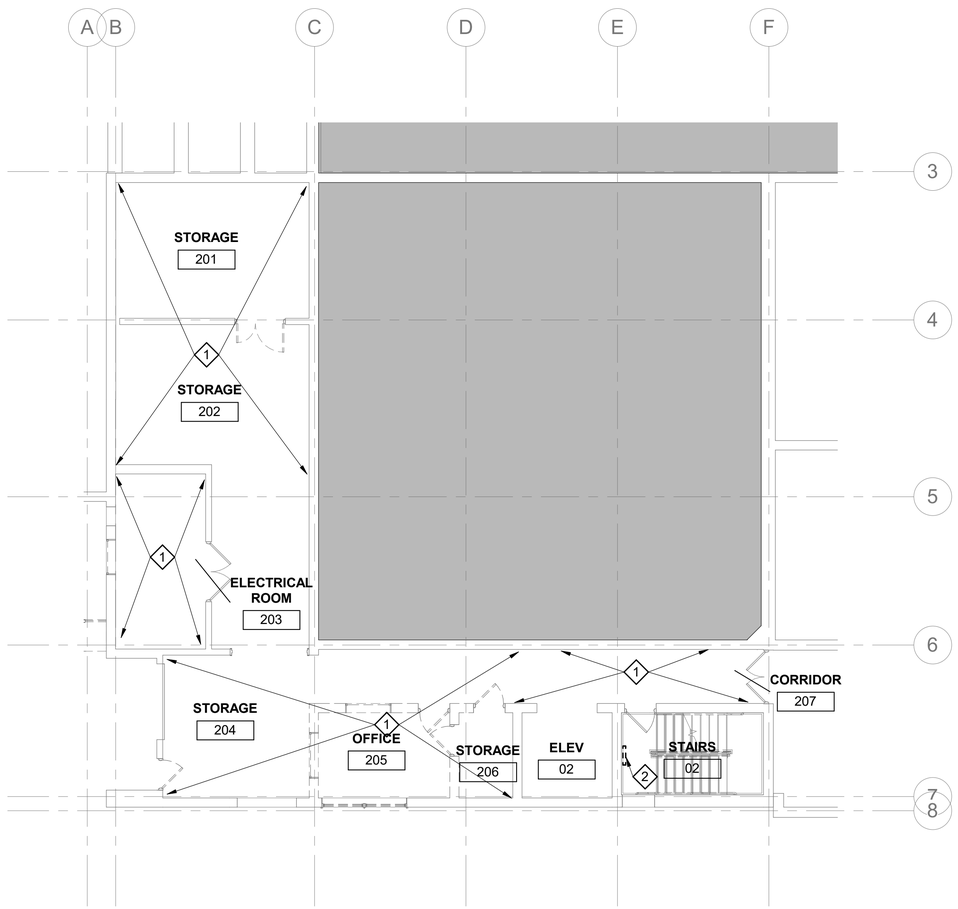
PROJ NO.: 25013
DATE: 06/08/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 ELECTRICAL FIRST FLOOR LIGHTING DEMOLITION PLAN

1/8"=1'-0"



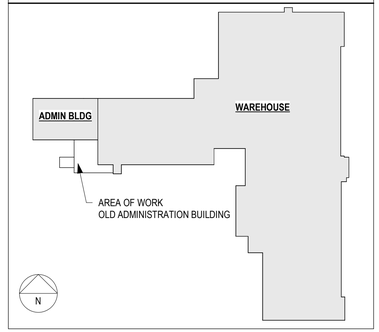
2 ELECTRICAL SECOND FLOOR LIGHTING DEMOLITION PLAN

1/8"=1'-0"

DEMOLITION PLAN NOTES:

1. REMOVE ALL EXISTING LIGHTING AND LIGHTING CONTROLS IN THIS AREA COMPLETE. MAINTAIN EXISTING LIGHTING CIRCUIT FOR REUSE.
2. REMOVE EXISTING WALL MOUNTED STAIR LIGHT COMPLETE. MAINTAIN EXISTING CIRCUIT FOR REUSE FOR NEW FIXTURE IN SAME LOCATION.
3. REMOVE ELEVATOR PIT LIGHT COMPLETE. MAINTAIN EXISTING CIRCUIT AND CONTROLS FOR REUSE FOR NEW FIXTURE IN SAME LOCATION.

KEY PLAN



STATE OF OHIO ALEX [illegible] E-87700 REGISTERED PROFESSIONAL ENGINEER 6/8/26

tec inc. engineering & surveying
#953 Bridgeton Ave, STE 240
Dublin, OH 43017
t 614.267.5437
f 614.267.5437
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE:
	06-08-2026	100% CD		
1	08/03/2026	DESIGN REVISIONS		

ELECTRICAL FIRST & SECOND FLOOR LIGHTING DEMOLITION PLAN

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

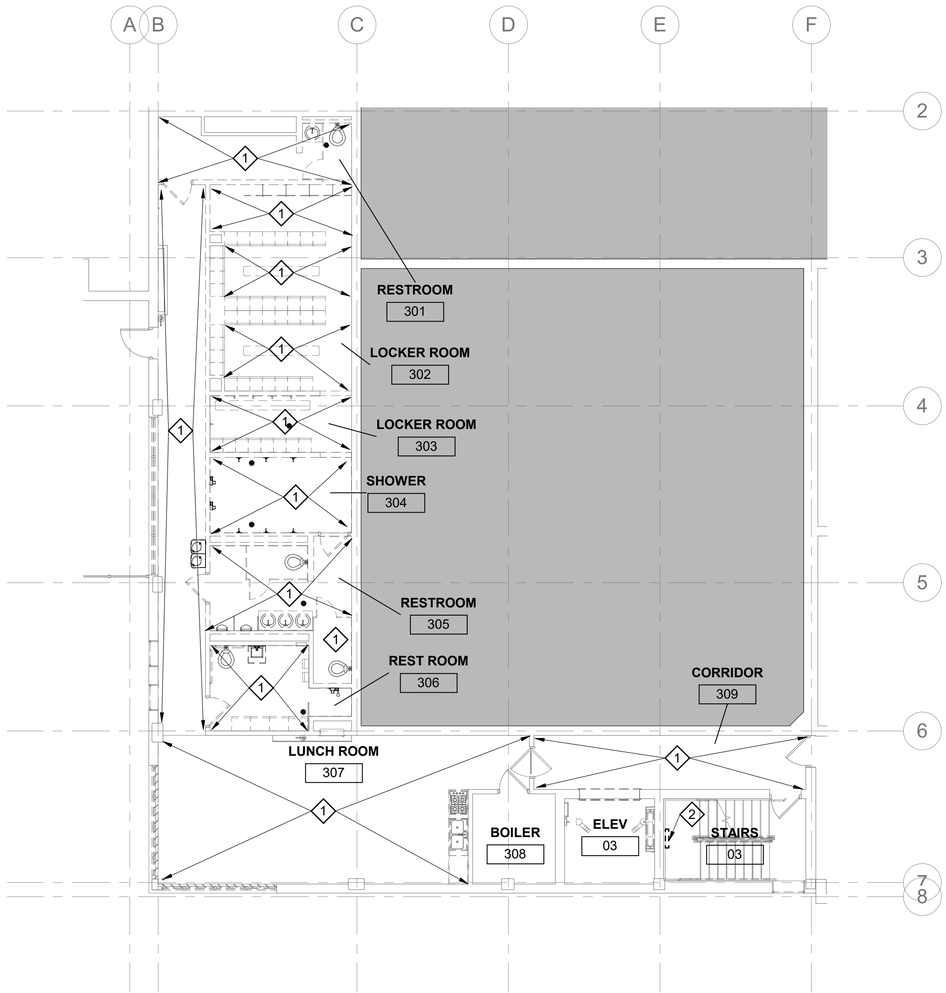
SHEET NO.

ELD-100

PROJ NO.: 25013

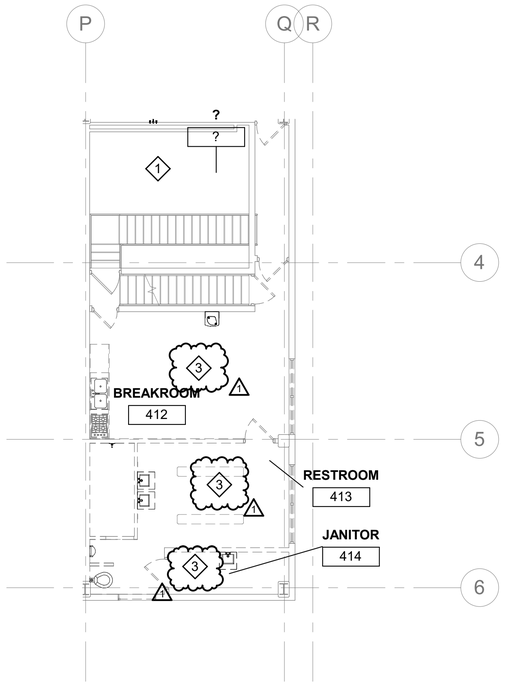
DATE: 06/08/2026

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



1 ELECTRICAL THIRD FLOOR LIGHTING DEMOLITION PLAN

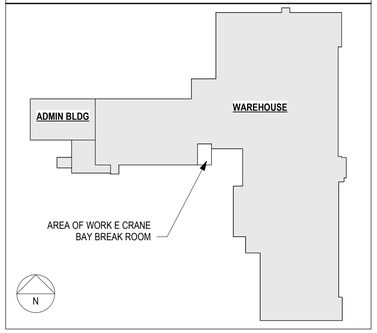
1/8"=1'-0"



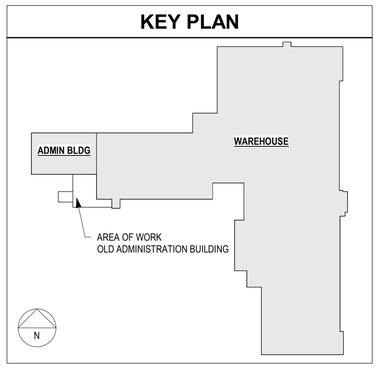
2 ELECTRICAL FOURTH FLOOR TIPPING AREA LIGHTING DEMOLITION PLAN

1/8"=1'-0"

KEY PLAN



KEY PLAN



DEMOLITION PLAN NOTES:

1. REMOVE ALL EXISTING LIGHTING AND LIGHTING CONTROLS IN THIS AREA COMPLETE. MAINTAIN EXISTING LIGHTING CIRCUIT FOR REUSE.
2. REMOVE EXISTING WALL MOUNTED STAIR LIGHT COMPLETE. MAINTAIN EXISTING CIRCUIT FOR REUSE FOR NEW FIXTURE IN SAME LOCATION.
3. REMOVE ALL EXISTING LIGHTING AND LIGHTING CONTROLS IN THIS AREA COMPLETE. REMOVE EXISTING CIRCUIT COMPLETE BACK TO SOURCE. (1)

STATE OF OHIO — ALEX [illegible] E-87700 — REGISTERED PROFESSIONAL ENGINEER — 6/8/26

tec inc. engineering & surveying
#953 Sanderson Ave, STE 240
Dublin, OH 43017
(614) 267-7477
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

No.	DATE	DESCRIPTION	APP'D.	DATE:
	06-08-2026	100% CD		
1	08/03/2026	DESIGN REVISIONS		

SUBMITTAL/REVISION RECORD

ELECTRICAL THIRD & FOURTH FLOOR TIPPING AREA LIGHTING DEMOLITION PLAN

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

MCES 130075-64

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

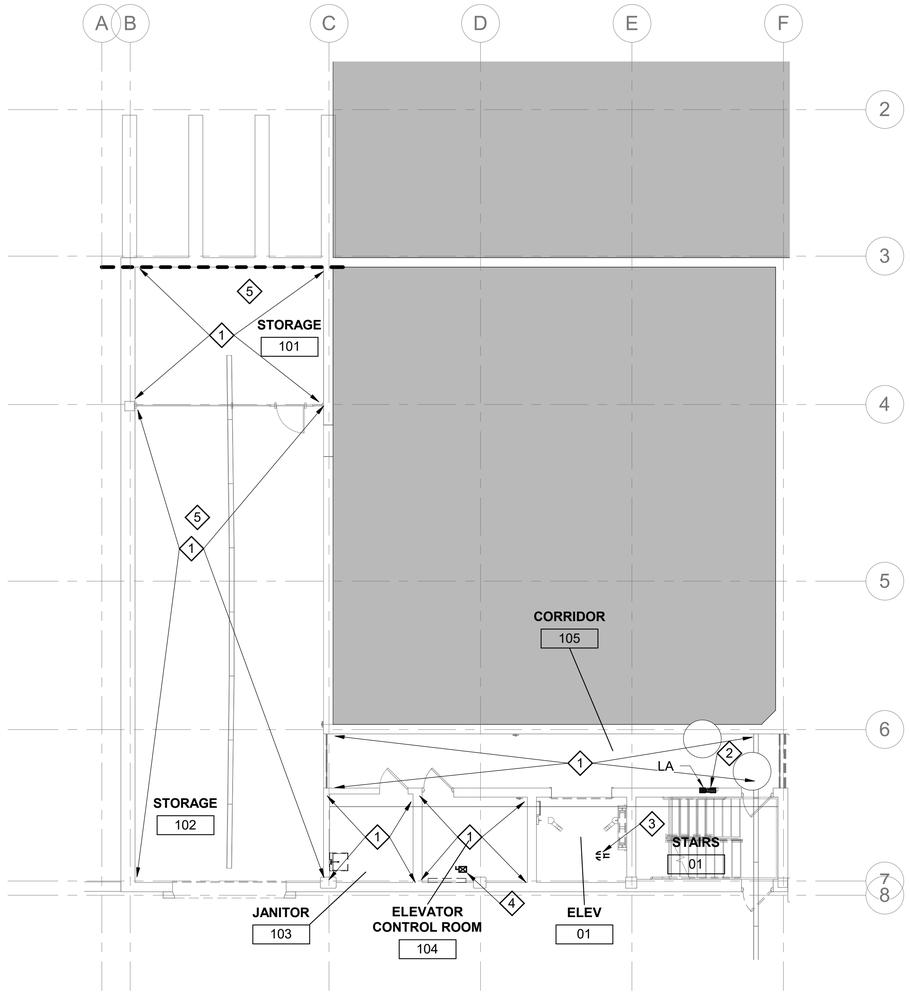
SHEET NO.

ELD-101

PROJ NO.: 25013

DATE: 06/08/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 ELECTRICAL FIRST FLOOR POWER DEMOLITION PLAN

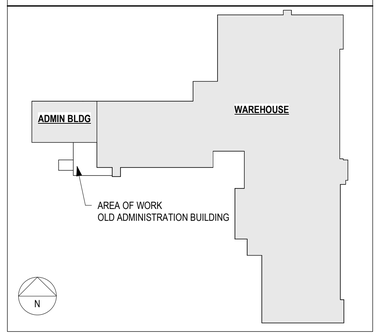
1/8"=1'-0"

N

◇ DEMOLITION PLAN NOTES:

1. REMOVE ALL EXISTING RECEPTACLES AND DATA OUTLETS IN THIS AREA COMPLETE. MAINTAIN EXISTING CIRCUIT FOR REUSE.
2. EXISTING PANEL TO BE REPLACED IN SAME LOCATION. DISCONNECT EXISTING FEEDER AND BRANCH CIRCUITS AND MAINTAIN FOR RECONNECTION TO NEW PANEL IN SAME LOCATION.
3. REMOVE EXISTING ELEVATOR PIT RECEPTACLE. MAINTAIN CIRCUIT FOR NEW RECEPTACLE IN SAME LOCATION.
4. REMOVE EXISTING 60A, 480V, 3PH DISCONNECT SWITCH FOR ELEVATOR COMPLETE. MAINTAIN EXISTING CIRCUIT FOR CONNECTION TO NEW SHUNT TRIP BREAKER IN SAME LOCATION.
5. REMOVE CIRCUIT FOR ALL UNIT HEATERS IN THIS ROOM COMPLETE BACK TO SOURCE.

KEY PLAN



STATE OF OHIO
ALEX
E-87700
REGISTERED
PROFESSIONAL ENGINEER
6/8/26

tec inc. engineering & surveying
#953 Sandenton Ave, STE 240
Dublin, OH 43017
(614) 457-8477
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE:	DESCRIPTION
	06-08-2026	100% CD
1	08/03/2026	DESIGN REVISIONS

ELECTRICAL FIRST FLOOR POWER DEMOLITION PLAN

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

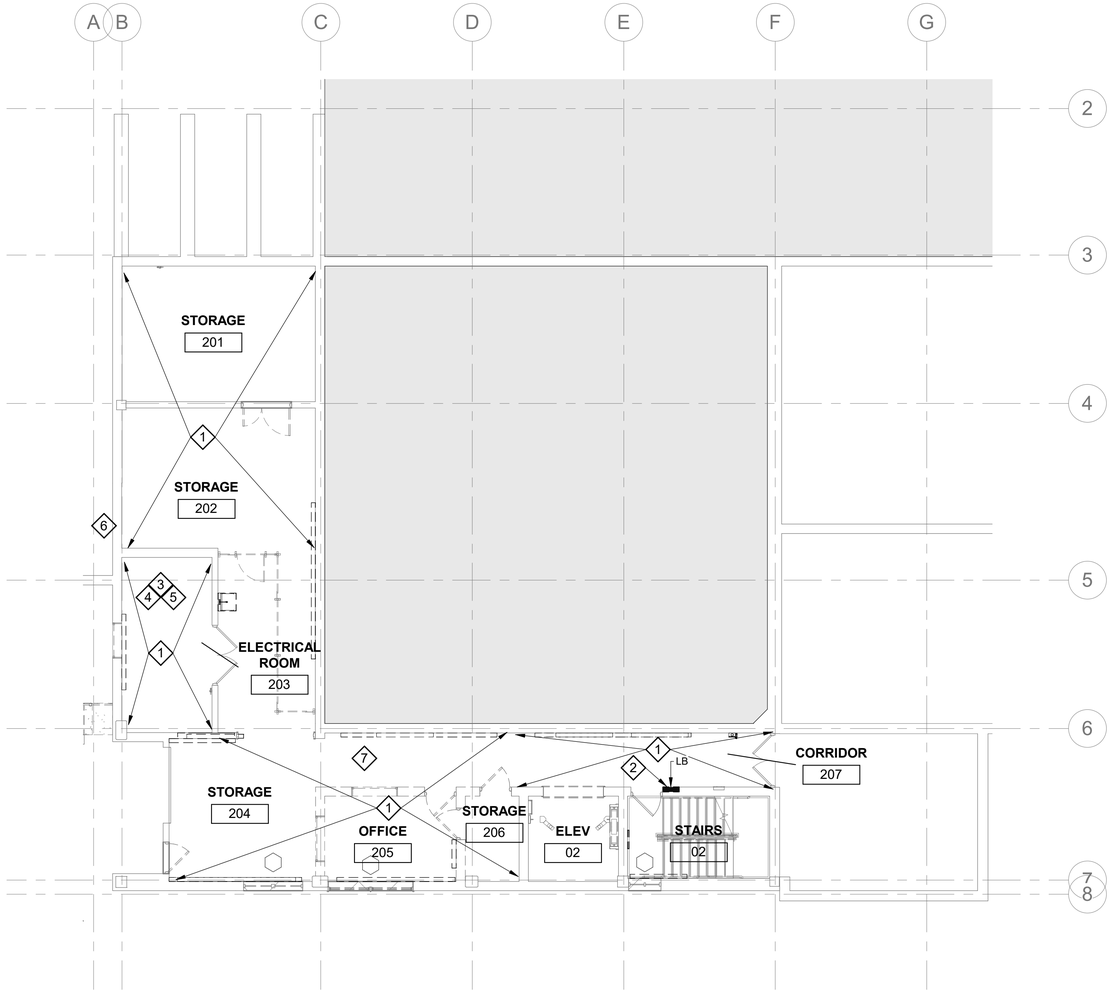
SHEET NO.

EPD-100

PROJ NO.: 25013

DATE: 06/08/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"

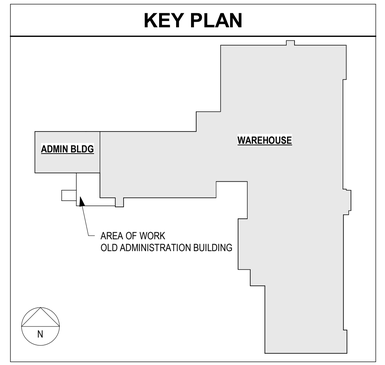


1 ELECTRICAL SECOND FLOOR POWER DEMOLITION PLAN
1/8"=1'-0"

DEMOLITION PLAN NOTES:

1. REMOVE ALL EXISTING RECEPTACLES AND DATA OUTLETS IN THIS AREA COMPLETE. MAINTAIN EXISTING CIRCUIT FOR REUSE.
2. EXISTING PANEL TO BE REPLACED IN SAME LOCATION. DISCONNECT EXISTING FEEDER AND BRANCH CIRCUITS AND MAINTAIN FOR RECONNECTION TO NEW PANEL IN SAME LOCATION.
3. REMOVE (3) EXISTING TRANSFORMERS IN THIS LOCATION COMPLETE. REMOVE EXISTING FLEXIBLE CONDUIT CONNECTION COMPLETE BACK TO NEAREST EXISTING TO REMAIN DISCONNECT SWITCH OR CONDUIT JOINT. MAINTAIN EXISTING MCC, PANELS, AND DISCONNECT SWITCHES IN THIS ROOM.
4. REMOVE EXISTING HALON SYSTEM FROM THIS ROOM, INCLUDING BUT NOT LIMITED TO INITIATORS, ABORT BUTTON, SMOKE DETECTORS, NOZZLES, TANK, ALARMS, AND ALL PIPING COMPLETE. CONTRACTOR SHALL HIRE A TSA LICENSED TECHNICIAN TO COMPLETE ALL PIPE AND TANK REMOVAL.
5. REMOVE (2) EXISTING 800A BUS DUCTS FROM THIS ROOM TO COLUMN LINE G-7 COMPLETE, INCLUDING ALL HANGERS AND SUPPORTS.
6. REMOVE ABANDONED GENERATOR IN THIS LOCATION AND ALL ASSOCIATED COMPONENTS COMPLETE. REMOVE ALL FEEDERS COMPLETE BACK TO SOURCE AND PATCH ALL WALL PENETRATIONS WEATHER TIGHT. ALL BELOW GRADE CONDUIT IS TO BE ABANDONED BELOW GRADE.
7. PROVIDE SUPPORT FOR EXISTING CONDUIT FROM STRUCTURE ABOVE.

KEY PLAN



STATE OF OHIO
ALEX
SCHMIDT
E-87700
REGISTERED
PROFESSIONAL ENGINEER
6/8/26

#953 Sinclair Ave, STE 240
Dublin, OH 43017
(614) 267-4567
f 614.267.5617
www.tecinceng.com
engineering & surveying
cleveland | columbus | pittsburgh
tec inc.

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION
	06-08-2026	100% CD
1	08/03/2026	DESIGN REVISIONS

ELECTRICAL SECOND FLOOR POWER DEMOLITION PLAN

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

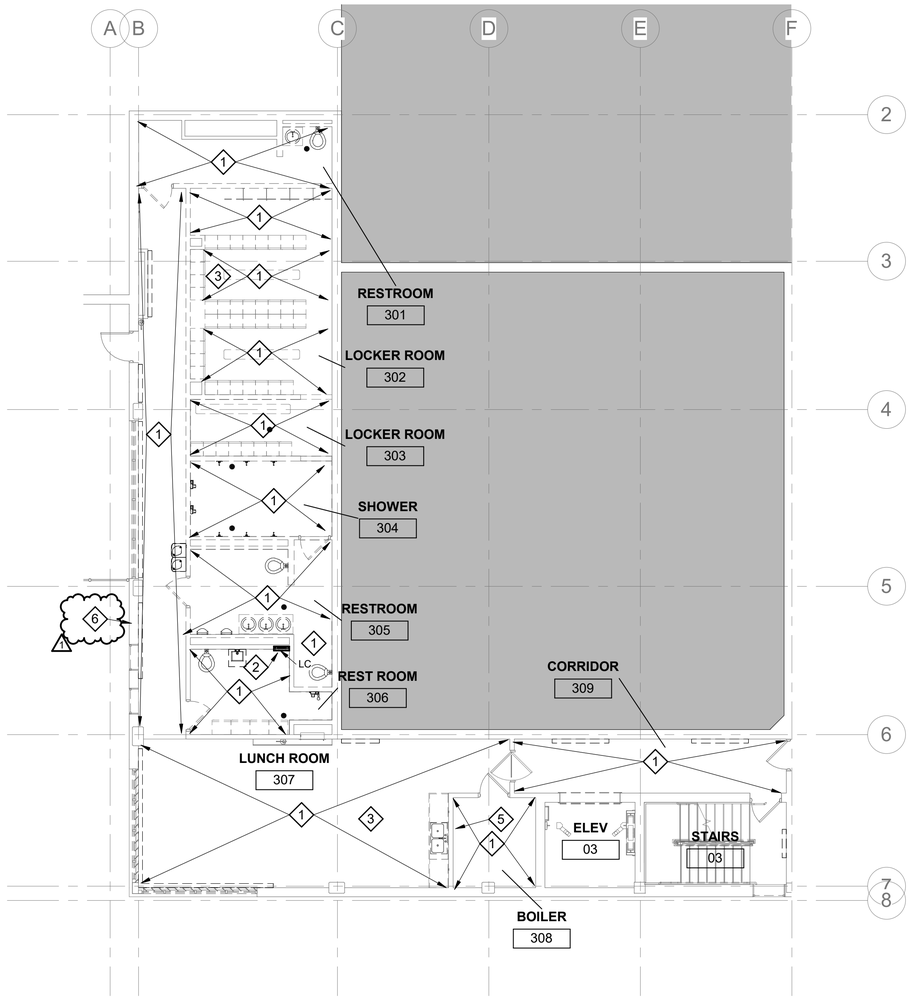
2350 SANDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO.

EPD-101

PROJ NO.: 25013
DATE: 06/08/2026

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



1 ELECTRICAL THIRD FLOOR POWER DEMOLITION PLAN

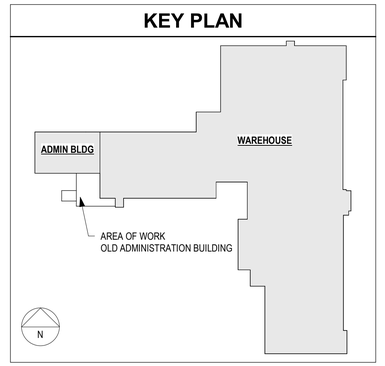
1/8"=1'-0"

N

DEMOLITION PLAN NOTES:

1. REMOVE ALL EXISTING RECEPTACLES AND DATA OUTLETS IN THIS AREA COMPLETE. MAINTAIN EXISTING CIRCUIT FOR REUSE.
2. EXISTING PANEL TO BE REPLACED IN SAME LOCATION. DISCONNECT EXISTING FEEDER AND BRANCH CIRCUITS AND MAINTAIN FOR RECONNECTION TO NEW PANEL IN SAME LOCATION.
3. REMOVE EXISTING CIRCUIT AND DISCONNECT FOR HEAT PUMP IN THIS LOCATION COMPLETE BACK TO SOURCE.
4. REMOVE CIRCUIT FROM WALL MOUNTED EXHAUST FAN COMPLETE BACK TO SOURCE.
5. DISCONNECT POWER FROM EXISTING BOILER. MAINTAIN CIRCUIT FOR CONNECTION TO NEW FURNACE IN SIMILAR LOCATION.
6. REMOVE EXISTING CIRCUIT FROM WALL MOUNTED FAN COMPLETE BACK TO SOURCE.

KEY PLAN



STATE OF OHIO
ALEX
SCHRADER
E-87700
REGISTERED
PROFESSIONAL ENGINEER
6/8/26

tec inc. engineers
#PE3 Tenderton Ave, STE 240
Dublin, OH 43017
t 614.297.9777
f 614.297.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE:	DESCRIPTION	APP'D:	DATE:
	06-08-2026	100% CD		
1	08/03/2026	DESIGN REVISIONS		

ELECTRICAL THIRD FLOOR POWER DEMOLITION PLAN

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2350 SANDRIDGE DRIVE
MORAINE, OHIO 45439

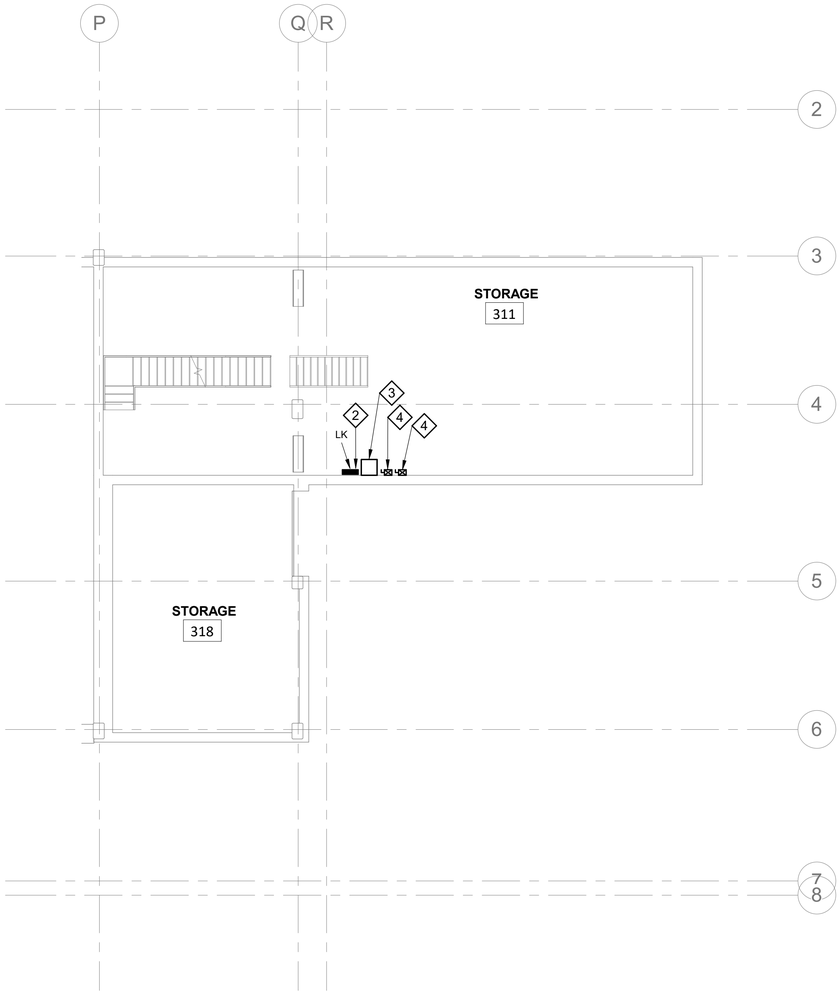
SHEET NO.

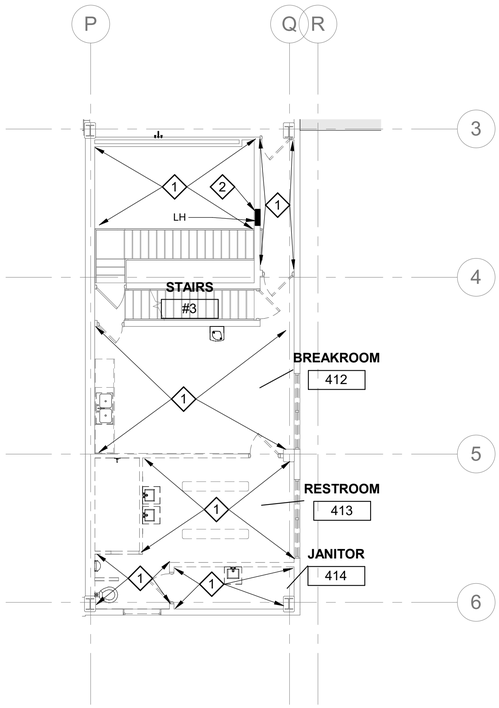
EPD-102

PROJ NO.: 25013

DATE: 06/08/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"





1 ELECTRICAL THIRD FLOOR TIPPING AREA POWER DEMOLITION PLAN

1/8"=1'-0"

N

2 ELECTRICAL FOURTH FLOOR TIPPING AREA POWER DEMOLITION PLAN

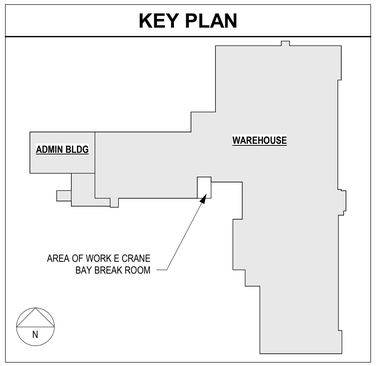
1/8"=1'-0"

N

◇ DEMOLITION PLAN NOTES:

1. REMOVE ALL EXISTING RECEPTACLES AND DATA OUTLETS IN THIS AREA COMPLETE. REMOVE BRANCH CIRCUITS COMPLETE BACK TO SOURCE.
2. EXISTING PANEL TO BE REPLACED IN SAME LOCATION. DISCONNECT EXISTING FEEDER AND BRANCH CIRCUITS AND MAINTAIN FOR RECONNECTION TO NEW PANEL IN SAME LOCATION.
3. REMOVE EXISTING TRANSFORMER IN THIS LOCATION COMPLETE. REMOVE EXISTING FLEXIBLE CONDUIT CONNECTION COMPLETE BACK TO NEAREST EXISTING TO REMAIN DISCONNECT SWITCH OR CONDUIT JOINT. MAINTAIN EXISTING MCC, PANELS, AND DISCONNECT SWITCHES IN THIS ROOM.
4. REMOVE EXISTING DISCONNECT SWITCH IN THIS LOCATION.

KEY PLAN



STATE OF OHIO
ALEX
E-87700
REGISTERED
PROFESSIONAL ENGINEER
6/8/26

tec inc.
engineering & surveying
#913 Tinderbox Ave, STE 240
Dublin, OH 43017
(614) 267-4777
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE:	DESCRIPTION	APP'VD.	DATE:
	06-08-2026	100% CD		
1	08/03/2026	DESIGN REVISIONS		

ELECTRICAL THIRD & FOURTH FLOOR TIPPING AREA POWER DEMOLITION PLAN

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO.

EPD-103

PROJ NO.: 25013

DATE: 06/08/2026

1/16" = 1'-0" 0 4' 8' 16' | 1/8" = 1'-0" 0 2' 4' 8' | 3/16" = 1'-0" 0 2' 4' 8' | 1/4" = 1'-0" 0 1' 2' 4' | 3/8" = 1'-0" 0 1' 2' 4' | 1/2" = 1'-0" 0 6" 1' 2' | 3/4" = 1'-0" 0 3" 6" 1' 2' | 1" = 1'-0" 0 3" 6" 1' 2' | 1 1/2" = 1'-0" 0 3" 6" 1' | 3" = 1'-0" 0 1" 2" 3" 6" 1' | 6" = 1'-0" 0 1" 2" 3" 6"

GENERAL NOTES

I. GENERAL

A. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTORS TO CHECK WITH THE ARCHITECTURAL DRAWINGS BEFORE INSTALLATION OF STRUCTURAL, MECHANICAL, AND ELECTRICAL WORK. SHOULD THERE BE DISCREPANCY BETWEEN THE ARCHITECTURAL DRAWINGS AND THE ENGINEERING DRAWINGS THAT WOULD CAUSE AN AWKWARD OR IMPROPER INSTALLATION, IT SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION PRIOR TO INSTALLATION OF SAID WORK.

B. THIS IS A SINGLE PRIME CONTRACT ANY AND ALL REFERENCE TO MULTIPLE CONTRACTORS ARE FOR TRADE SPECIFIC CONTRACTOR'S INFORMATION. ALL CONTRACTOR WORK DESCRIBED IN THESE CONSTRUCTION DOCUMENTS IS THE RESPONSIBILITY OF THE LEAD CONTRACTOR.

C. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE SHOWN. WHERE SPECIFIC DIMENSIONS, DETAILS, OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

D. FILL ANY MASONRY VOIDS WITH MORTAR OR GROUT WHERE ANCHORS OCCUR.

E. SEPARATE ALL DISSIMILAR METALS TO PREVENT CORROSION CAUSED BY DIALECTIC ACTION, OR BY OTHER CAUSES AS RECOMMENDED BY THE RESPECTIVE PRODUCT MANUFACTURER / SUPPLIER.

F. REFER TO STRUCTURAL DRAWINGS FOR ALL LINTEL MATERIALS AND SIZES.

G. REFER TO THE SPECIFICATIONS FOR DESCRIPTIONS OF INSULATION TYPES, GLASS TYPES, AND HARDWARE SETS.

H. ALL EXPOSED CONCRETE BLOCK OUTSIDE CORNERS ARE TO BE BULLNOSE.

GENERAL CONT

L. GENERAL TRADES CONTRACTOR TO COORDINATE FLOOR SLAB DEPRESSIONS REQUIRED BY FLOOR FINISH MATERIALS. PROVIDE LEVEL FINISH FLOOR. PROVIDE LOCAL DEPRESSION AT FLOOR DRAINS OF 1/4-INCH UON.

M. ALL TOILET ACCESSORY ITEMS NOTED HANDICAP ARE TO BE INSTALLED PER ICC A117.1 AND AMERICAN BARRIER ACT (ADAAG) STANDARDS, ANY DEVIATION FROM ICC A117.1 & ADA STANDARDS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO INSTALLATION.

N. PROVIDE ACCESS PANELS AS REQUIRED BY APPLICABLE CODES AND AS REQUIRED FOR MECHANICAL EQUIPMENT. ACCESS PANELS LOCATED IN FINISHED SURFACES SHALL BE PAINTED TO MATCH ADJACENT SURFACES. LOCATION SHALL BE REVIEWED WITH THE ARCHITECT PRIOR TO PROCEEDING WITH INSTALLATION.

O. FIRE EXTINGUISHERS ARE TYPE FE-1 UON REFER TO SPECIFICATIONS FOR FIRE EXTINGUISHER TYPES.

II. FIRE RESISTANCE RATING

A. FIRE RATING INDICATIONS ON A WALL SHALL MEAN THE ENTIRE LENGTH OF WALL IS TO BE FIRE RATED. REFER TO DRAWINGS AND SPECIFICATIONS FOR UL DETAILS.

B. PIPING, DUCTS, ETC., THAT PENETRATE WALLS SHALL BE INSTALLED IN A MANNER THAT WILL PRESERVE THE FIRE RESISTANCE RATING & STRUCTURAL INTEGRITY OF THE WALL. REFER TO MEP DRAWINGS FOR UL DETAILS.

C. RECESSED CABINETS, PANELS, BOXES AND CORNER GUARDS LOCATED IN FIRE RATED WALLS SHALL BE INSTALLED IN SUCH A WAY AS TO MAINTAIN THE FIRE RATED CONSTRUCTION.

D. WHERE REQUIRED FIREPROOFING IS REMOVED OR DAMAGED FOR THE PLACING OF WORK, CUP ANGLES, BRACES OR SUPPORTS, ETC. THE FIREPROOFING SHALL BE REPLACED BY THE CONTRACTOR REMOVING OR DAMAGING THE FIREPROOFING TO MAINTAIN THE INTEGRITY OF THE FIREPROOFING SYSTEM. REFER TO SPECIAL INSPECTIONS IN THE SPECIFICATIONS.

III. DIMENSIONS

A. DO NOT SCALE THE DRAWINGS. CONTRACTORS ARE RESPONSIBLE FOR FIELD VERIFYING ALL CONDITIONS BEFORE PROCEEDING WITH ANY WORK. DISCREPANCIES BETWEEN FIELD CONDITIONS AND DRAWINGS SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH ANY WORK. FAILURE OF THE CONTRACTOR TO REVIEW THE CONTRACT DOCUMENTS AND VERIFY THE EXISTING CONDITIONS SHALL NOT BE SUFFICIENT CAUSE TO WARRANT A CHANGE IN CONTRACT AFTER CONTRACT IS AWARDED.

B. INTERIOR PARTITIONS ARE DIMENSIONED TO THE FINISH FACE OF MASONRY OR GYPSUM BOARD, EXCLUDING FINISH MATERIALS SUCH AS CERAMIC TILE. THE CONTRACTOR SHALL COORDINATE FINISH DIMENSIONS WITH FINISH SCHEDULE WHEN CRITICAL TO THE INSTALLATION OF MILL WORK, CASEWORK, OR EQUIPMENT.

C. UNLESS SHOWN OTHERWISE, DOOR LOCATIONS NOT LOCATED BY DIMENSIONS SHALL BE CENTERED IN WALL OR BE LOCATED 4" FROM FINISH PERPENDICULAR WALL TO EDGE OF DOOR FRAME.

D. DIMENSIONING AT OPENINGS ARE THE CLEAR OPENING WHICH INCLUDES THE FRAME AND WINDOW/DOOR.

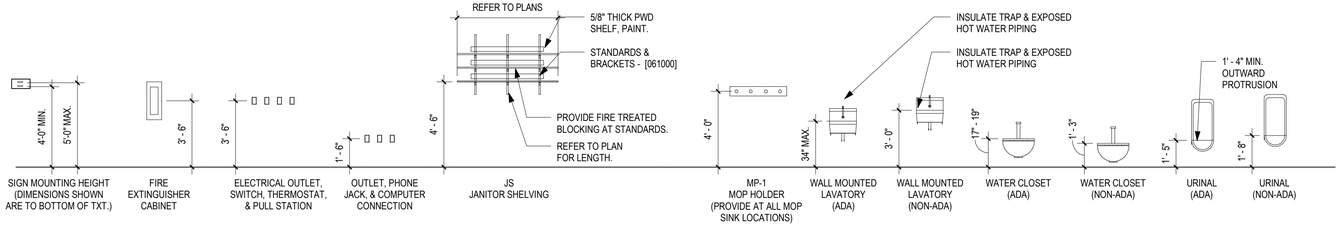
V. SIGNAGE

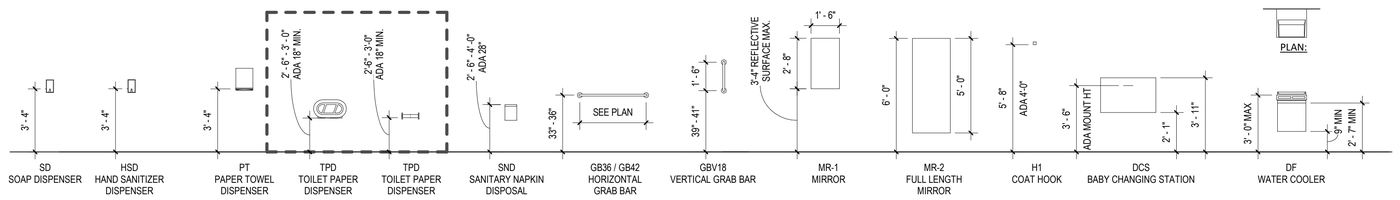
A. REFER TO SPECIFICATION SECTION 101400 "SIGNAGE".

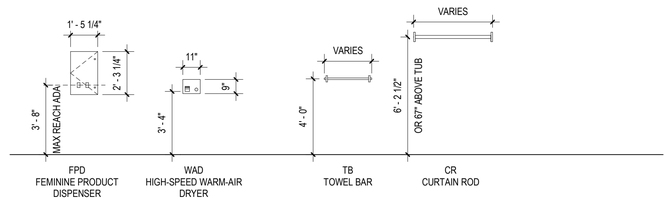
B. PROVIDE EXIT SIGNAGE AT EACH BUILDING EXIT AND AT EACH EXIT IN ASSEMBLY SPACE WHERE MORE THAN ONE EXIT IS REQUIRED.

C. PROVIDE SIGNAGE AT EACH FIRE EXTINGUISHER OR FIRE EXTINGUISHER CABINET.

FIXTURE HEIGHT







ARCHITECTURAL SYMBOLS LEGEND

- CODED NOTE
- DEMOLITION CODED NOTE
- COLUMN LINE BUBBLE
- DATUM MARKER
- DETAIL MARKER (1 / A101 SIM)
- NORTH ARROW
- 0 View Title 1/8" = 1'-0" — TITLE MARKER
- SECTION CUT MARKER (1 / A101 SIM)
- Room name / 101 / 150 SF — ROOM NUMBER
- ELEVATION MARKER (1 Ref, A101)
- DOOR NUMBER
- WALL TYPE
- WINDOW ELEVATION MARKER
- [XX XX XX] SPECIFICATION SECTION

MATERIAL LEGEND

- BRICK
- CONCRETE
- CMU
- EARTH
- GRAVEL
- GROUT
- GYPSUM BOARD
- INSULATION
- PLYWOOD
- RIGID INSULATION
- SAND
- WOOD BLOCKING

ARCHITECTURAL ABBREVIATIONS

ABBREV	DEFINITION
#	NUMBER
&	AND
@	AT
A/C	AIR CONDITIONING
A/E	ARCHITECT ENGINEER
A/V	AUDIO VIDEO
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITES ACT
ADD	ADDENDUM
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ALT	ALTERNATE
ARCH	ARCHITECT(URAL)
AS	ADJUSTABLE SHELF
AUTO	AUTOMATIC
AWP	ACOUSTICAL WALL PANEL
BD	BOARD
BIT	BITUMINOUS
BLDG	BUILDING
BLKG	BLOCKING
BO	BOTTOM OF
BOT	BOTTOM
BTWN	BETWEEN
CG	CORNER GUARD
CHT	CEILING HEIGHT
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR(ANCE)
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CPT	CARPET/CARPET TILE
CT	CERAMIC TILE
CW	COLD WATER
D	DEPTH
DEMO	DEMOLISH
DET	DETAIL
DH	DOOR HEADER
DI	IONIZED WATER
DIA	DIAMETER
DIM	DIMENSION
DJ	DOOR JAMB
DP	DEEP
DS	DOWN SPOUT
DWG(S)	DRAWING(S)
EA	EACH
EF	EACH FACE
EIFS	EXTERIOR INSULATED FINISHING SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRIC(AL)
ELEV	ELEVATION
EMER	EMERGENCY
EQ	EQUAL
ETC	ETCETERA
EXIST	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER-BRACKET MT
FEC	FIRE EXTINGUISHER & CABINET
FF	FINISHED FLOOR
FF&E	FURNITURE, FIXTURES & EQUIPMENT
FFE	FINISH FLOOR ELEVATION
FLR	FLOOR(ING)
FTG	FOOTING
G	GAS
GA	GAGE, GAUGE
GB	GRAB BAR
GC	GENERAL TRADES CONTRACTOR
GL	GLASS, GLAZING
GYP BD	GYPSUM BOARD
H	HIGH
HB	HOSE BIB
HC	HANDICAP
HD	HEAD
HDW	HARDWARE
HM	HOLLOW METAL
HT	HEIGHT
HVAC	HEATING / VENTILATION / AIR CONDITIONING

ARCHITECTURAL ABBREVIATIONS

ABBREV	DEFINITION
HW	HOT WATER
IJ	ISOLATION JOINT
IN	INCH
INCL	INCLUDE(D), INCLUDING
INSUL	INSULATION
INT	INTERIOR
JC	JANITOR'S CLOSET
JT	JOINT
LAB	LABORATORY
LAM	LAMINATE(D)
LAV	LAVATORY
M	MIRROR
MAX	MAXIMUM
MECH	MECHANIC(AL)
MEP	MECHANICAL/ ELECTRICAL/ PLUMBING
MFR	MANUFACTURE(R)
MIN	MINIMUM
MISC	MISCELLANEOUS
MKBD	MARKERBOARD
MT	MOUNT
MTL	METAL
N	NORTH
NIC	NOT IN CONTRACT
NO.	NUMBER
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OC	ON CENTER(S)
OD	OUTSIDE DIAMETER OR OVERFLOW DRAIN
OPH	OPPOSITE HAND
OPP	OPPOSITE
P	PAINT
PLAM	PLASTIC LAMINATE
PNL	PANEL
PROJ	PROJECTION
PSI	POUNDS PER SQUARE INCH
PWD	PLYWOOD
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCE(D), REINFORCING
REQ'D	REQUIRED
RES	RESILIENT
RESIN	RESINOUS
RFG	ROOFING
RM	ROOM
RO	ROUGH OPENING
RR	RESTROOM
SECT	SECTION
SF	SQUARE FOOT/FEET
SIM	SIMILAR
SMACNA	SHEET METAL & AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SPEC	SPECIFICATION(S)
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
TEL	TELEPHONE
TEMP	TEMPORARY
THK	THICK(NESS)
TKBD	TACK BOARD
TO	TOP OF
TOC	TOP OF CONCRETE
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TSL	TOP OF SLAB
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VCT	VINYL COMPOSITION TILE
VIF	VERIFY IN FIELD
W	WIDTH
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WIN	WINDOW
WM	WIRE MESH

SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD.	DATE:

ARCHITECTURAL ABBREVIATIONS, SYMBOLS, & NOTES

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE MORAINE, OHIO 45439

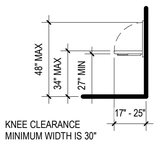
SHEET NO. A-001

PROJ NO.: 25013

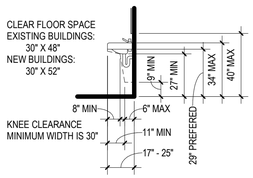
DATE: 08/19/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"

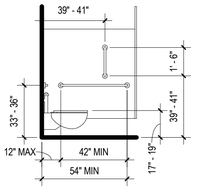
FIXTURE HEIGHT LEGEND



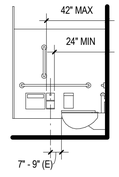
BABY CHANGING STATION



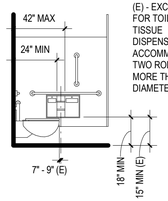
LAVATORY CLEARANCES



SEAT HEIGHT AND GRAB BAR LOCATIONS



INDIVIDUAL ACCESSORIES

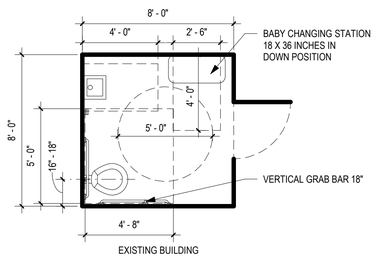


COMBINATION ACCESSORIES

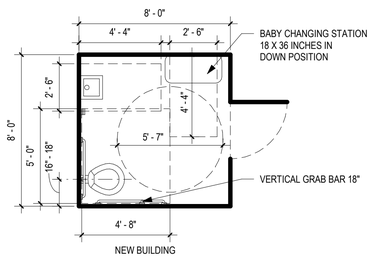
(E) - EXCEPTION FOR TOILET TISSUE DISPENSERS THAT ACCOMMODATE TWO ROLLS NOT MORE THAN 5" IN DIAMETER

ACCESSIBLE RESTROOMS LEGEND

INDIVIDUAL TOILET ROOM WITH BABY CHANGING STATION

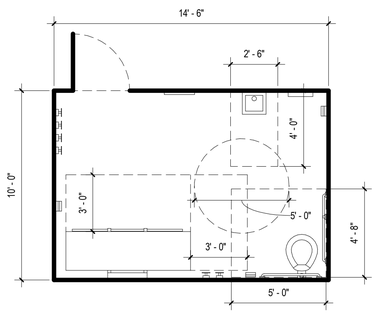


EXISTING BUILDING

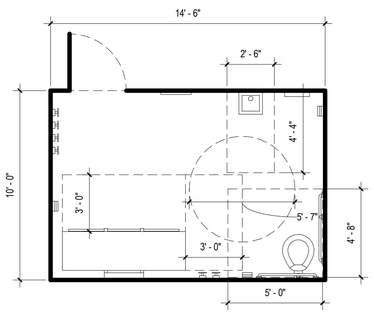


NEW BUILDING

INDIVIDUAL TOILET ROOM WITH ADULT CHANGING STATION

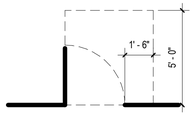


EXISTING BUILDING

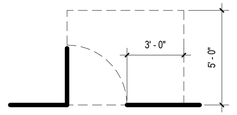


NEW BUILDING

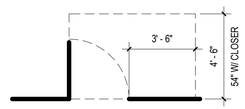
ACCESSIBLE DOOR CLEARANCE LEGEND



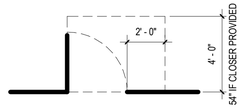
FRONT APPROACH MANUAL SWING DOOR



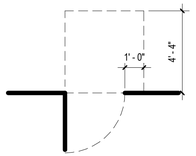
HINGE APPROACH- PULL SIDE
MANUAL SWING DOOR



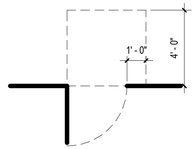
HINGE APPROACH- PULL SIDE
MANUAL SWING DOOR



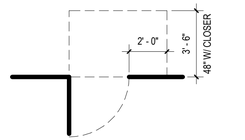
LATCH APPROACH- PULL SIDE
MANUAL SWING DOOR



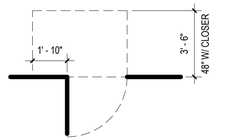
FRONT APPROACH MANUAL SWING DOOR



EXISTING
FRONT APPROACH MANUAL SWING DOOR

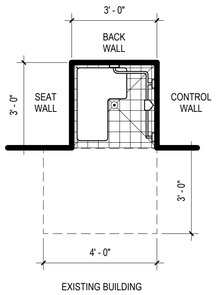


LATCH APPROACH- PUSH SIDE
MANUAL SWING DOOR

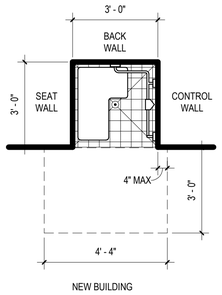


HINGE APPROACH- PUSH SIDE
MANUAL SWING DOOR

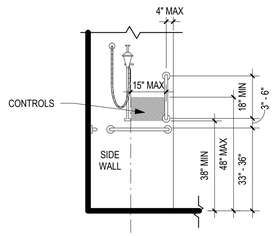
INDIVIDUAL SHOWER COMPARTMENTS LEGEND



EXISTING BUILDING

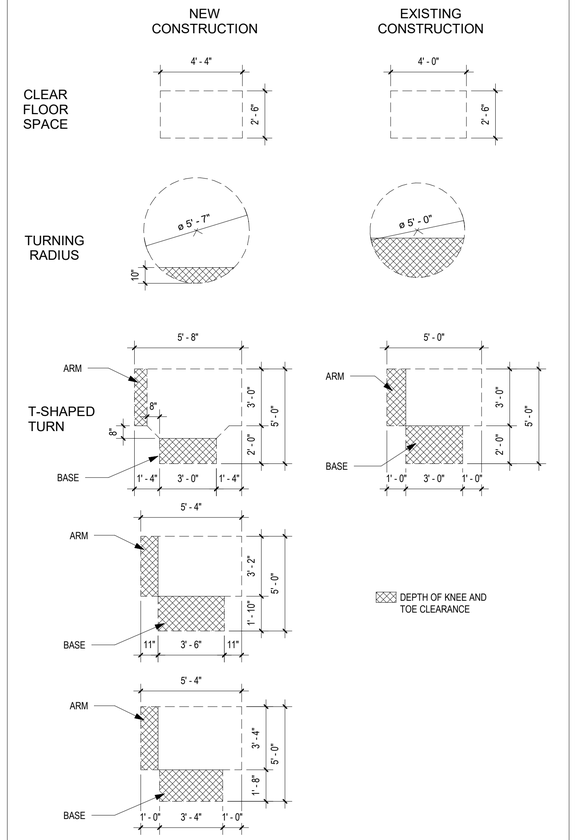


NEW BUILDING



CONTROL LOCATIONS

ACCESSIBLE CLEAR FLOOR SPACE



SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD.	DATE

ARCHITECTURAL ACCESSIBLE CLEARANCE

MCES 130075-64

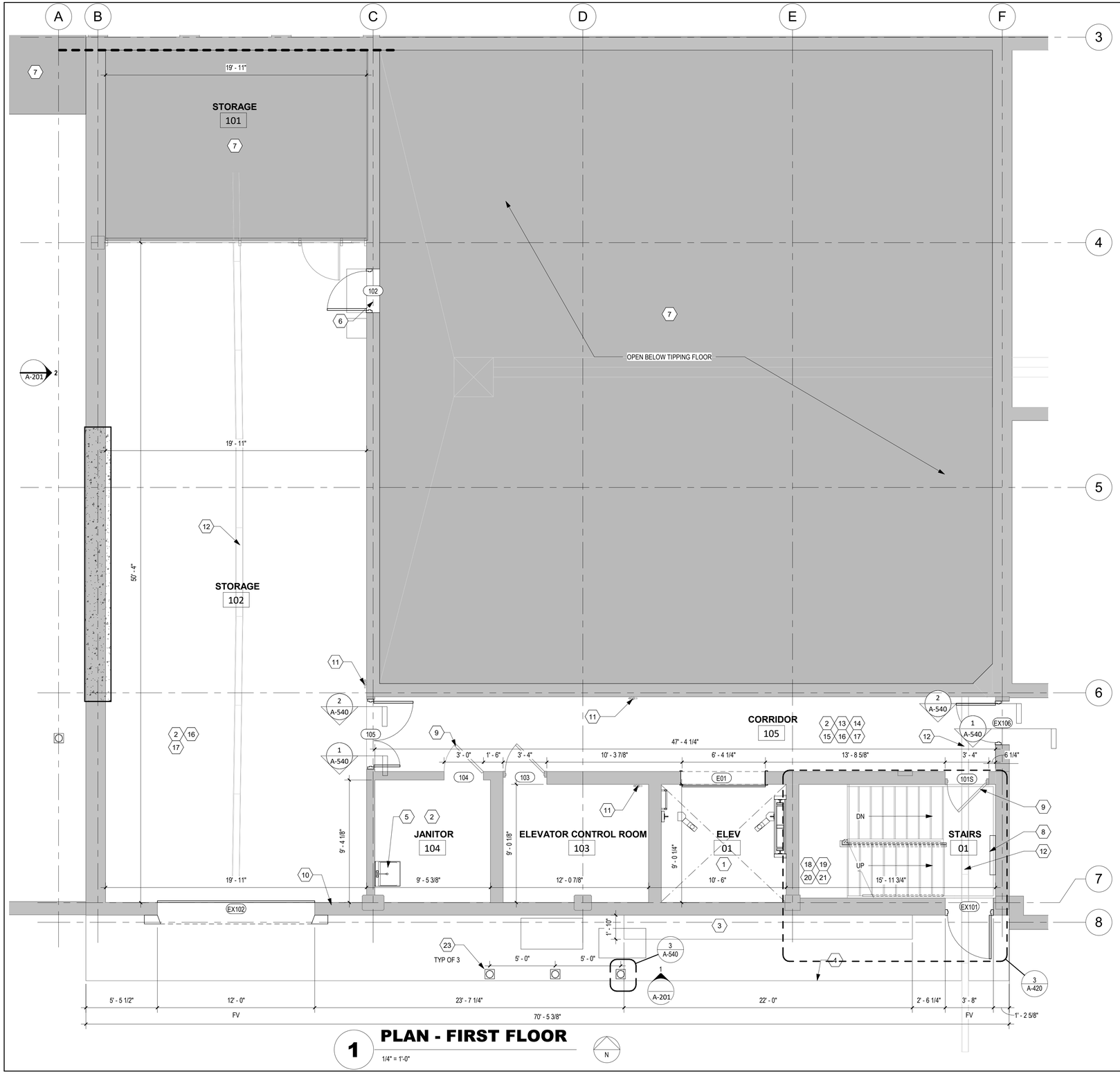
MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2350 SANDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO.
A-002

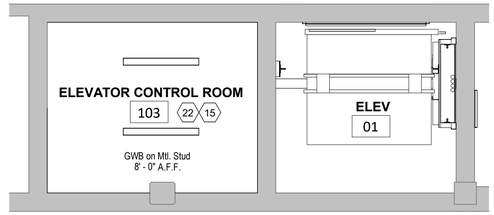
PROJ NO.: 25013
DATE: 08/19/2026

1/16" = 1'-0" 0 4' 8' 16' | 1/8" = 1'-0" 0 2' 4' 8' | 3/16" = 1'-0" 0 2' 4' 8' | 1/4" = 1'-0" 0 1' 2' 4' | 3/8" = 1'-0" 0 1' 2' 4' | 1/2" = 1'-0" 0 6" 1' 2' | 3/4" = 1'-0" 0 3" 6" 1' 2' | 1" = 1'-0" 0 3" 6" 1' 2' | 1 1/2" = 1'-0" 0 3" 6" 1' | 3" = 1'-0" 0 1" 2" 3" 6" 1' | 6" = 1'-0" 0 1" 2" 3" 6"



PLAN - FIRST FLOOR

1 — 1/4" = 1'-0"



PLAN - ELEVATOR CONTROL ROOM CEILING

2 — 1/4" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET A-001 FOR FIXTURE MOUNTING HEIGHTS AND TYPES.

B. REFER TO EXTERIOR ELEVATIONS FOR WINDOWS TYPES.

C. CLEAN ALL AREAS OF WORK.

D. PREP ALL WALLS ACCORDING TO DSD-0, [09 01 90.52]. REFER TO FINISH SCHEDULE FOR FINISHES.

E. PREP ALL CONCRETE FLOORS. REFER TO FINISH SCHEDULE FOR FINISHES.

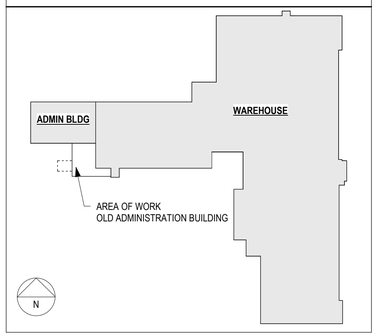
F. SEAL ALL PENETRATIONS IN EXISTING CMU WALLS.

P-# SEE PHOTO # ON SHEET S-301 FOR ADDITIONAL INFORMATION.

CODED NOTES (X)

1	PROVIDE ELEVATOR. REFER TO ELEVATOR SPECIFICATIONS.
2	PATCH/INFILL CMU/CONC WALLS, [09 01 90.52].
3	EXISTING 22"W X 22"L CURB TO REMAIN.
4	EXISTING 5' CONCRETE APRON TO REMAIN.
5	PROVIDE UTILITY SINK. REFER TO PLUMBING DRAWINGS.
6	PROVIDE DOOR, FRAME, & HARDWARE @ EXISTING OPENING. INFILL OPENING AROUND DOOR.
7	NO WORK, U.O.N.
8	PROVIDE WALL MOUNTED ELECTRIC HEATER. REFER TO ELECTRICAL DRAWINGS.
9	EXISTING DOOR(S) AND FRAME(S) TO REMAIN.
10	SECTIONAL DOOR OPERATOR.
11	EXISTING FIRE EXTINGUISHER TO REMAIN.
12	EXISTING TRENCH DRAINS TO REMAIN.
13	SEAL ALL PENETRATIONS IN EXISTING CMU ABOVE DOOR OPENINGS.
14	SEAL ALL PENETRATIONS IN EXISTING CMU WALL OPENINGS.
15	PROVIDE LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
16	PROVIDE, PAINT TO DECK P-1.
17	PROVIDE, SEAL FLOOR.
18	PROVIDE STEEL GUARDRAIL & HANDRAIL @ EXISTING STAIRS, PAINT. EXISTING POST TO REMAIN. REFER TO DETAIL 5 & 6 ON SHEET A-422.
19	PROVIDE LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
20	PAINT STAIRWELL & DOOR P-1 (SHEEN TYPE B)
21	PAINT STAIR TREADS AND RISERS P-2 (SHEEN TYPE B)
22	PROVIDE GYPSUM BOARD CEILING TO THE ELEVATOR ROOM
23	PROVIDE BOLLARDS @ 5' OC. REFER TO DETAIL 3 ON SHEET A-540.

KEY PLAN



SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE

FIRST FLOOR PLAN

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

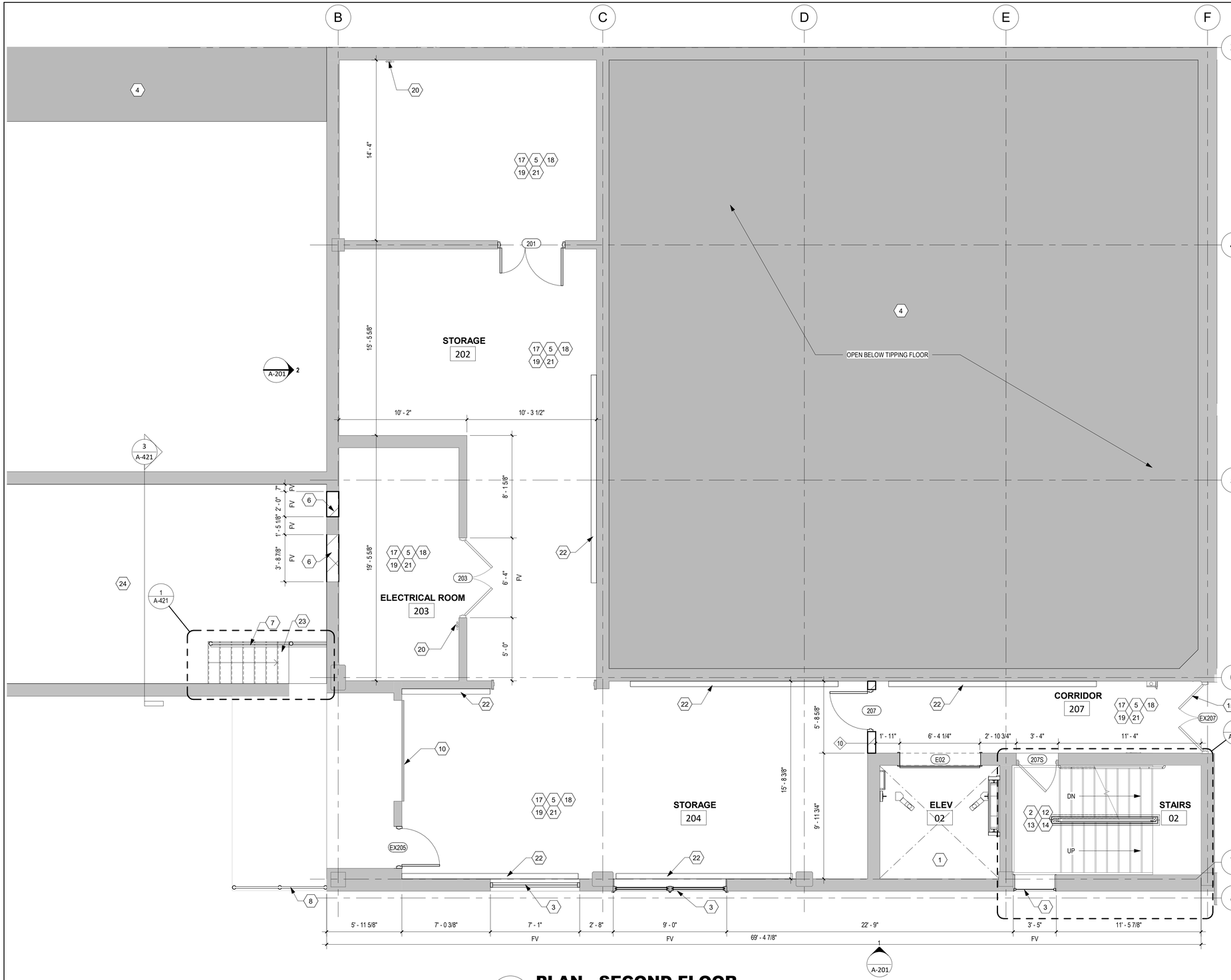
SHEET NO.

A-101

PROJ NO.: 25013

DATE: 08/19/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 PLAN - SECOND FLOOR

1/4" = 1'-0"

N

GENERAL NOTES

A. REFER TO SHEET A-001 FOR FIXTURE MOUNTING HEIGHTS AND TYPES.

B. REFER TO EXTERIOR ELEVATIONS FOR WINDOWS TYPES.

C. CLEAN ALL AREAS OF WORK.

D. PREP ALL WALLS ACCORDING TO DSD-0, [09 01 90.52]. REFER TO FINISH SCHEDULE FOR FINISHES.

E. PREP ALL CONCRETE FLOORS. REFER TO FINISH SCHEDULE FOR FINISHES.

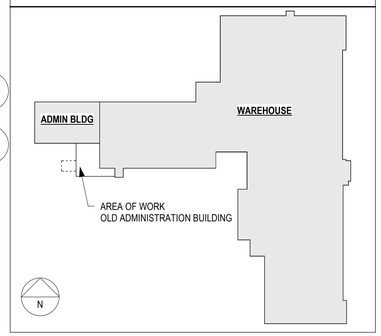
F. SEAL ALL PENETRATIONS IN EXISTING CMU WALLS.

P-# SEE PHOTO # ON SHEET S-301 FOR ADDITIONAL INFORMATION.

CODED NOTES (X)

1	PROVIDE ELEVATOR. REFER TO ELEVATOR SPECIFICATIONS.
2	PROVIDE STEEL GUARDRAIL & HANDRAIL @ EXISTING STAIRS, PAINT. EXISTING POST TO REMAIN. REFER TO DETAIL 5 & 6 ON SHEET A-422.
3	PROVIDE WINDOW, FRAME, & SILL.
4	NO WORK, UON.
5	PATCH/INFILL CMU/CONC WALLS, [09 01 90.52].
6	INFILL EXISTING OPENING WITH CMU BLOCK WITH BRICK VENEER TO MATCH SURROUNDING.
7	PROVIDE STEEL HANDRAIL @ STAIRS. REFER TO STRUCTURAL DRAWINGS.
8	PROVIDE 87" LONG STEEL GUARDRAIL.
10	EXISTING SECTIONAL DOOR TO REMAIN.
12	PATCH & REPAIR WALLS, DOOR, & STAIRS TO RECEIVE FINISH
13	PAINT STAIRWELL & DOOR P-1 (SHEEN TYPE B)
14	PAINT STAIR TREADS AND RISERS P-2 (SHEEN TYPE B)
15	PROVIDE CMU INFILL ABOVE DOOR
16	SEAL ALL PENETRATIONS IN EXISTING CMU ABOVE DOOR OPENINGS.
17	SEAL ALL PENETRATIONS IN EXISTING CMU WALL OPENINGS.
18	PROVIDE, PAINT TO DECK P-1.
19	PATCH & REPAIR WALL TO RECEIVE FINISH
20	EXISTING FIRE EXTINGUISHER TO REMAIN.
21	PROVIDE, SEAL FLOOR.
22	PROVIDE UNIT HEATER, REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.
23	PROVIDE CAST IN PLACE STAIRS & LANDING, REFER TO STRUCTURAL DRAWINGS.
24	PROVIDE STAIR CONC. SLAB WITH (1) LAYER 6X6 - W2.9 X W2.9 WWR CENTERED.

KEY PLAN



SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DESCRIPTION	DATE	APP'D.	DATE

SECOND FLOOR PLAN

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

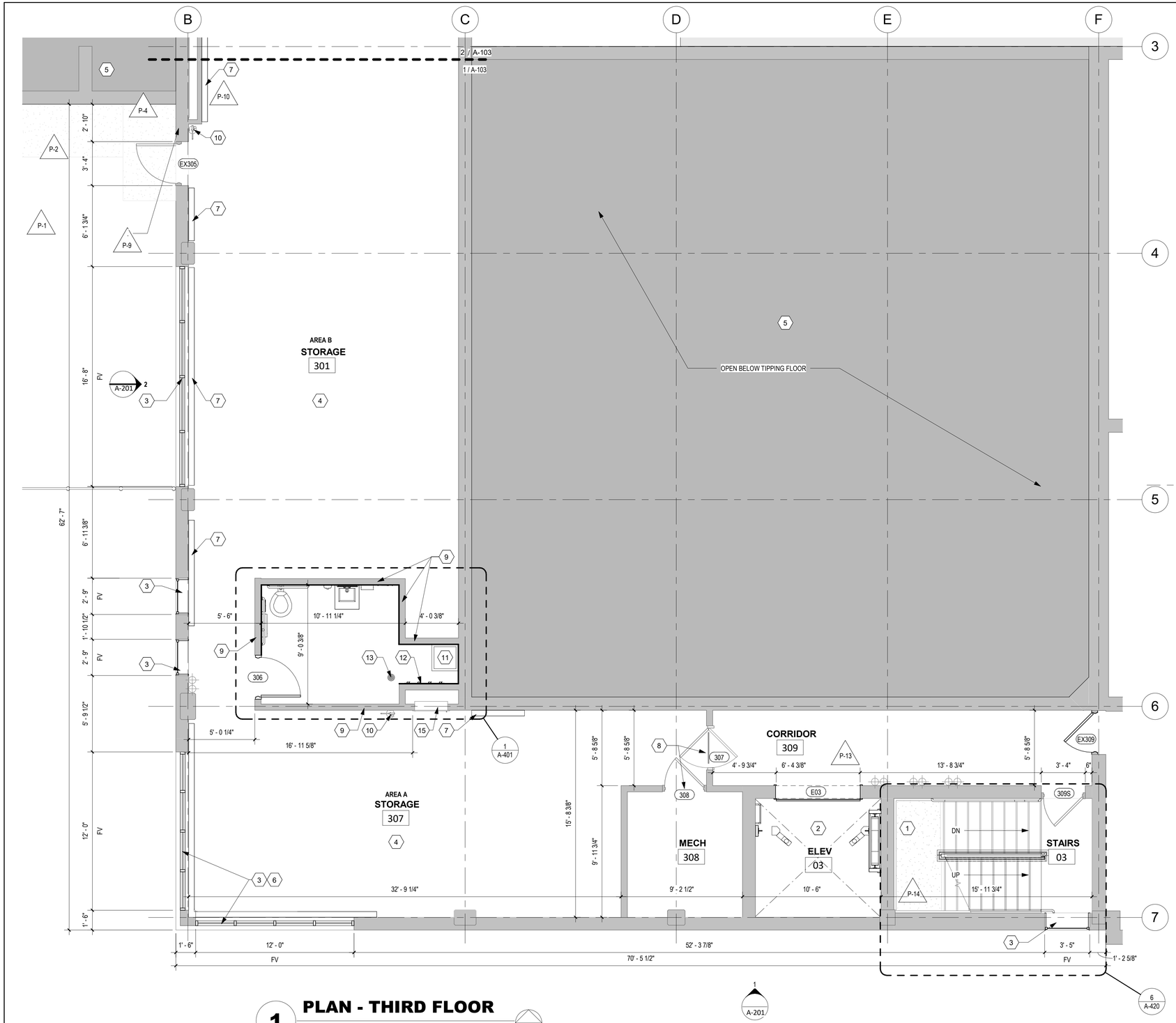
SHEET NO.

A-102

PROJ NO.: 25013

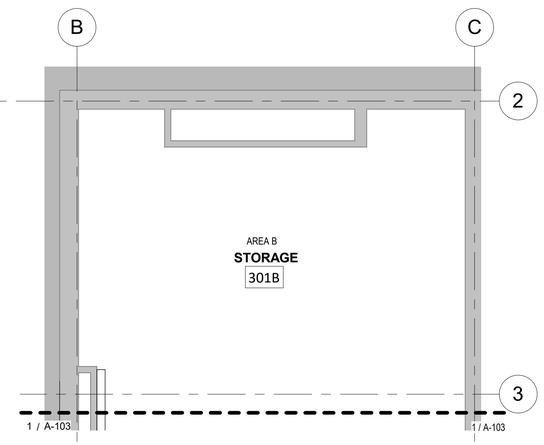
DATE: 08/19/2026

1/16" = 1'-0" 0 4' 8' 16' | 1/8" = 1'-0" 0 2' 4' 8' | 3/16" = 1'-0" 0 2' 4' 8' | 1/4" = 1'-0" 0 1' 2' 4' | 3/8" = 1'-0" 0 1' 2' 4' | 1/2" = 1'-0" 0 6" 1' 2' | 3/4" = 1'-0" 0 3" 6" 1' 2' | 1" = 1'-0" 0 3" 6" 1' 2' | 1 1/2" = 1'-0" 0 3" 6" 1' | 3" = 1'-0" 0 1" 2" 3" 6" 1' | 6" = 1'-0" 0 1" 2" 3" 6"



1 PLAN - THIRD FLOOR

1/4" = 1'-0"



2 PLAN - THIRD FLOOR @ NORTH

1/4" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET A-001 FOR FIXTURE MOUNTING HEIGHTS AND TYPES.

B. REFER TO EXTERIOR ELEVATIONS FOR WINDOWS TYPES.

C. CLEAN ALL AREAS OF WORK.

D. PREP ALL WALLS ACCORDING TO DSD-0, [09 01 90.52]. REFER TO FINISH SCHEDULE FOR FINISHES.

E. PREP ALL CONCRETE FLOORS. REFER TO FINISH SCHEDULE FOR FINISHES.

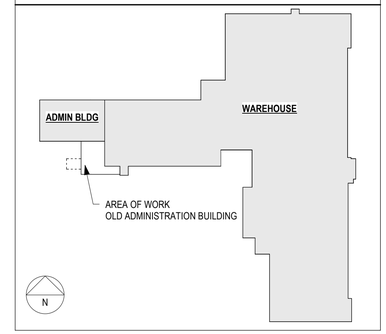
F. SEAL ALL PENETRATIONS IN EXISTING CMU WALLS.

P-# SEE PHOTO # ON SHEET S-301 FOR ADDITIONAL INFORMATION.

CODED NOTES (X)

1	PROVIDE STEEL GUARDRAIL & HANDRAIL @ EXISTING STAIRS, PAINT. EXISTING POST TO REMAIN. REFER TO DETAIL 5 & 6 ON SHEET A-422.
2	PROVIDE ELEVATOR. REFER TO ELEVATOR SPECIFICATIONS.
3	PROVIDE WINDOW, FRAME, & SILL.
4	PATCH/INFILL CMU/CONC WALLS, [09 01 90.52].
5	NO WORK, UON.
6	EXISTING SILL TO REMAIN, PROTECT.
7	PROVIDE UNIT HEATER, REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.
8	EXISTING DOOR(S) AND FRAME(S) TO REMAIN.
9	EXISTING WALL(S) TO REMAIN.
10	EXISTING FIRE EXTINGUISHER TO REMAIN.
11	PROVIDE 2' - 0" X 2' - 0" MOP BASIN. REFER TO PLUMBING DRAWINGS.
12	PROVIDE MOP HOLDER.
13	FLOOR DRAIN, REFER TO PLUMBING DRAWINGS.
15	EXISTING FIRE HOSE CABINET TO REMAIN.

KEY PLAN



SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE:

THIRD FLOOR PLAN

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2590 SANDRIDGE DRIVE
MORAINE, OHIO 45439

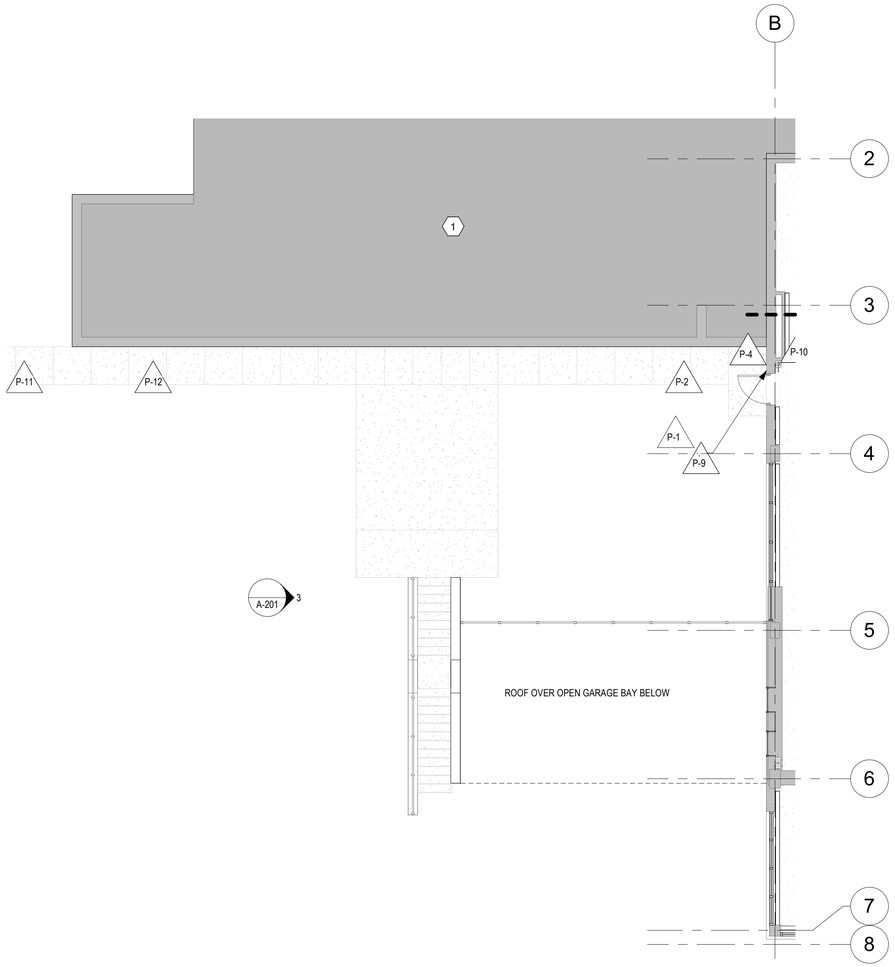
SHEET NO.

A-103

PROJ NO.: 25013

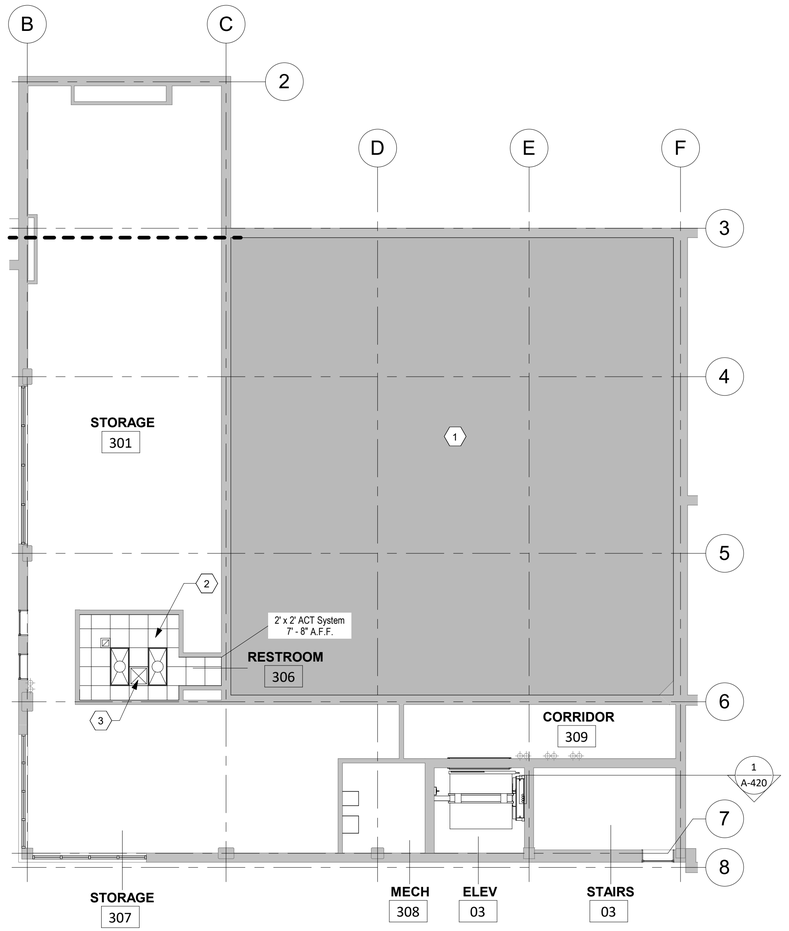
DATE: 08/19/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 PLAN - THIRD FLOOR PARTIAL

1/8" = 1'-0"



2 PLAN RCP - THIRD FLOOR

1/8" = 1'-0"

GENERAL NOTES

A. VERIFY QUANTITIES AND SIZE OF ALL MECHANICAL, ELECTRICAL AND FIRE PROTECTION EQUIPMENT SHOWN ON THE REFLECTED CEILING PLANS WITH RESPECTIVE MECHANICAL, ELECTRICAL AND FIRE PROTECTION CONTRACT DRAWINGS AND SPECIFICATIONS.

B. VERIFY ALL FINISHES WITH FINISH SCHEDULE. REPORT ANY DISCREPANCIES TO A/E PRIOR TO WORK.

C. LOCATED ALL MECHANICAL AND ELECTRICAL FIXTURES WHICH EXIST IN CEILING AS CLOSE AS POSSIBLE TO THE CONFIGURATION SHOWN. THE INTENT IS TO PROVIDE A UNIFORM AND SYMMETRICAL LAYOUT WITHIN EACH ROOM OR SPACE. THESE LOCATIONS ARE SUBJECTED TO FIELD VERIFICATION AND A/E APPROVAL.

D. REFER TO FIRE PROTECTION PLANS FOR SPRINKLER HEAD LOCATIONS. LOCATE HEAD IN CENTER OF TILE EACH WAY, TYPICAL.

E. PROVIDE METAL CEILING TRIM AT ALL INTERSECTION WITH VAC DUCTS, ELECTRICAL CONDUITS, AND ALL OTHER CEILING PENETRATIONS.

F. PROVIDE METAL CEILING TRIM AT ALL COLUMN PENETRATIONS.

G. ALL ACT CEILING TILE MIN. OF 6-INCHES WIDE AT EDGE OF ROOM.

P-# SEE PHOTO # ON SHEET S-301 FOR ADDITIONAL INFORMATION.

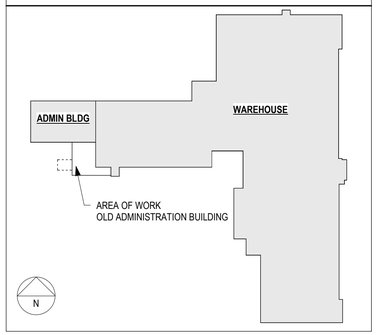
CODED NOTES (X)

1	NO WORK, UON.
2	PROVIDE ACT CEILING PANELS & GRID @ 7'-8" AFF.
3	PROVIDE SUPPLY DIFFUSER. REFER TO MECHANICAL DRAWINGS.

RCP SYMBOLS LEGEND

- LAY-IN CEILING GRID (SEE ROOM FINISH SCHEDULE A-000)
- GYPSUM BOARD CEILING
- FLUORESCENT LIGHT FIXTURE IN GRID
- RECESSED LIGHT FIXTURE
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- 1i 1'-0" A.F.F. CEILING TAG WITH FINISH HEIGHT

KEY PLAN



SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD.	DATE

PARTIAL THIRD FLOOR PLAN & RCP

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO.
A-104

PROJ NO.: 25013
DATE: 08/19/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 PLAN- FOURTH FLOOR

1/4" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET A-001 FOR FIXTURE MOUNTING HEIGHTS AND TYPES.

B. REFER TO EXTERIOR ELEVATIONS FOR WINDOWS TYPES.

C. CLEAN ALL AREAS OF WORK.

D. PREP ALL WALLS ACCORDING TO DSD-0, [09 01 90.52]. REFER TO FINISH SCHEDULE FOR FINISHES.

E. PREP ALL CONCRETE FLOORS. REFER TO FINISH SCHEDULE FOR FINISHES.

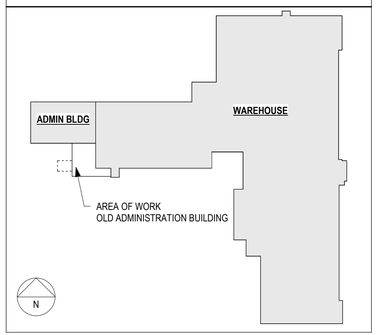
F. SEAL ALL PENETRATIONS IN EXISTING CMU WALLS.

P-# SEE PHOTO # ON SHEET S-301 FOR ADDITIONAL INFORMATION.

CODED NOTES (X)

1	PROVIDE STEEL GUARDRAIL & HANDRAIL @ EXISTING STAIRS, PAINT. EXISTING POST TO REMAIN. REFER TO DETAIL 5 & 6 ON SHEET A-422.
2	REMOVE EXISTING ELEVATOR CABINET AND EQUIPMENT. REFER TO ELEVATOR SPECIFICATIONS.
3	PATCH WALL AND FLOOR TO MATCH EXISTING MATERIALS AT LOCATION OF REMOVED FINTUBE HEATER, TYP.
4	EXISTING DOOR(S) AND FRAME(S) TO REMAIN.
5	NO WORK, UON.
6	PAINT STAIRWELL & DOOR P-1 (SHEEN TYPE B)
7	PAINT STAIR TREADS AND RISERS P-2 (SHEEN TYPE B)
8	PATCH & REPAIR WALLS, DOOR, & STAIRS TO RECEIVE FINISH
9	PROVIDE, SEAL FLOOR.
10	PROVIDE, PAINT TO DECK P-1.

KEY PLAN



SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE

FOURTH FLOOR PLAN

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

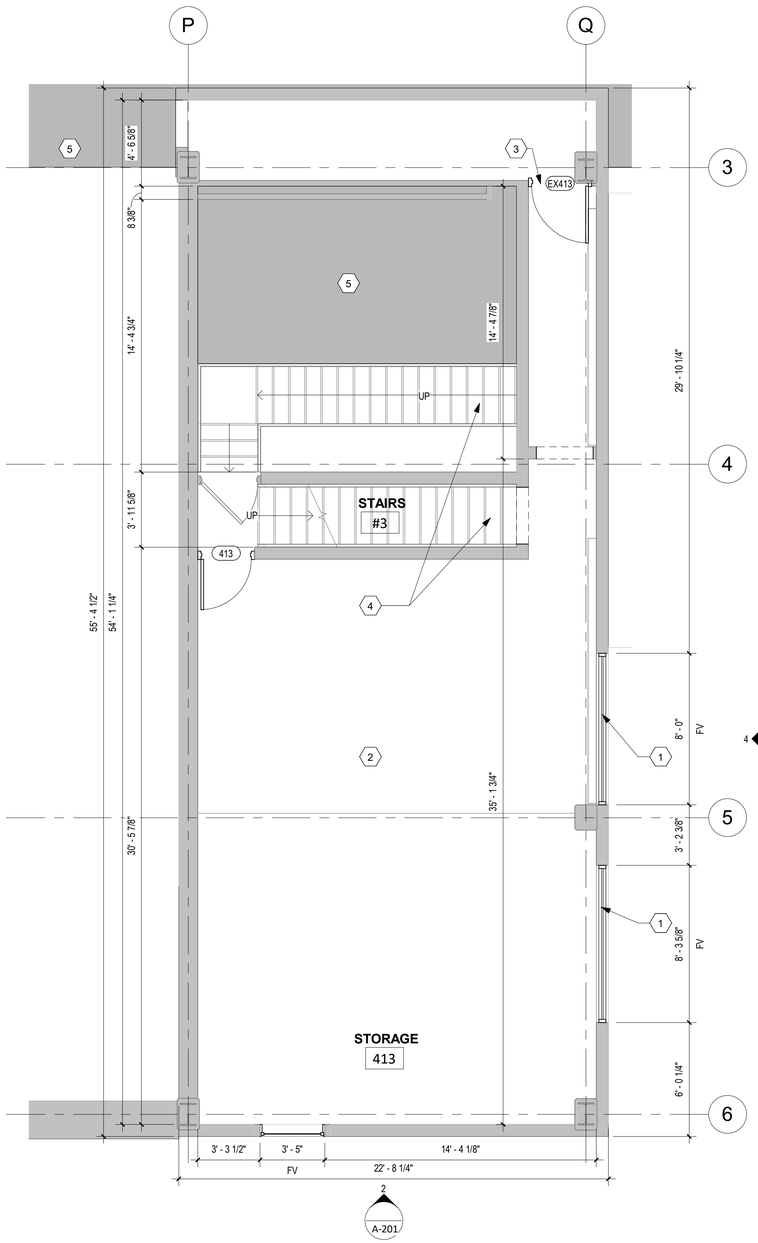
SHEET NO.

A-105

PROJ NO.: 25013

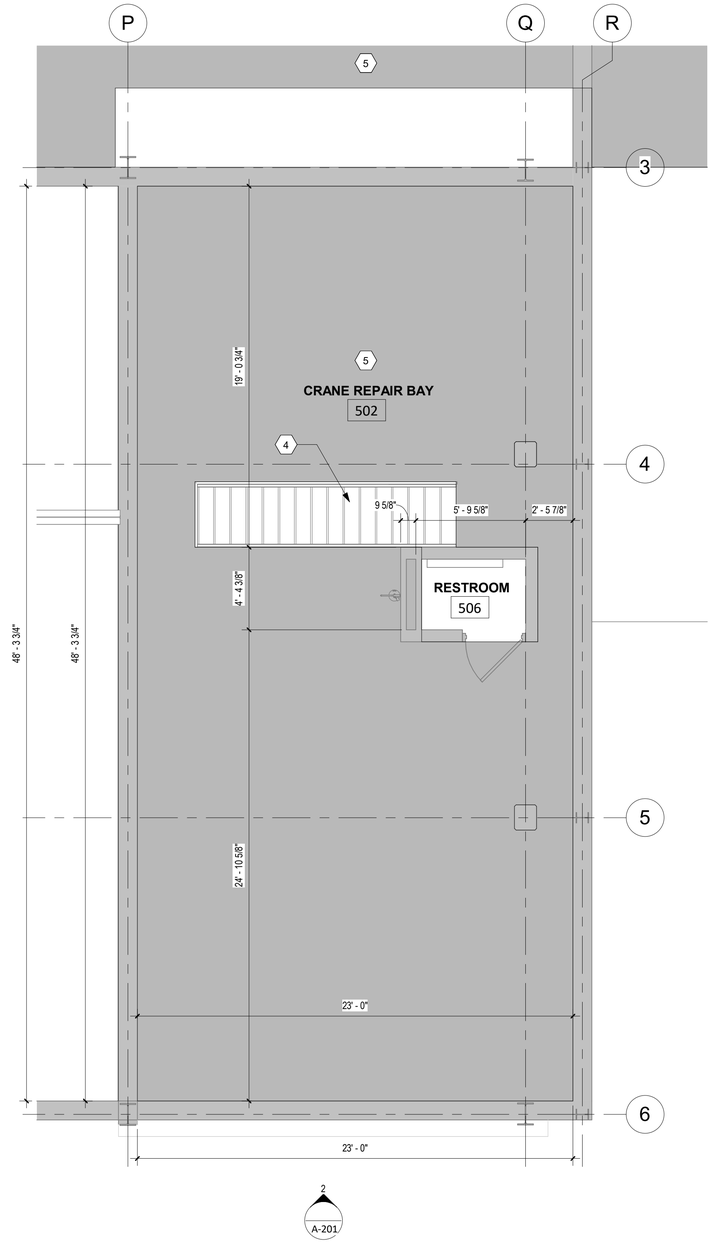
DATE: 08/19/2026

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



1 PLAN - EAST CRANE BAY OLD BREAK ROOM

1/4" = 1'-0"



2 PLAN - EAST CRANE BAY

1/4" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET A-001 FOR FIXTURE MOUNTING HEIGHTS AND TYPES.

B. REFER TO EXTERIOR ELEVATIONS FOR WINDOWS TYPES.

C. CLEAN ALL AREAS OF WORK.

D. PREP ALL WALLS ACCORDING TO DSD-0, [09 01 90.52]. REFER TO FINISH SCHEDULE FOR FINISHES.

E. PREP ALL CONCRETE FLOORS. REFER TO FINISH SCHEDULE FOR FINISHES.

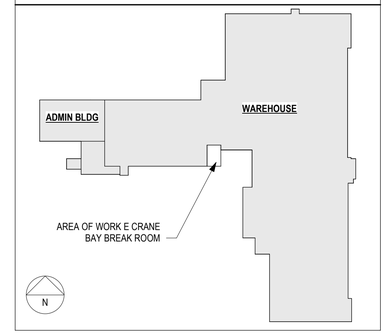
F. SEAL ALL PENETRATIONS IN EXISTING CMU WALLS.

P-# SEE PHOTO # ON SHEET S-301 FOR ADDITIONAL INFORMATION.

CODED NOTES (X)

1	PROVIDE WINDOW, FRAME, & SILL.
2	PATCH/INFILL CMU/CONC WALLS, [09 01 90.52].
3	PROVIDE INFILL ABOVE DOOR W/ METAL STUD & GYP BD.
4	EXISTING STAIRS TO REMAIN. PREP FOR PAINT.
5	NO WORK, UON.

KEY PLAN



SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD.	DATE

FOURTH FLOOR & MEZZANINE PLANS - EAST END

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2450 SANDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO.

A-106

PROJ NO.: 25013

DATE: 08/19/2026

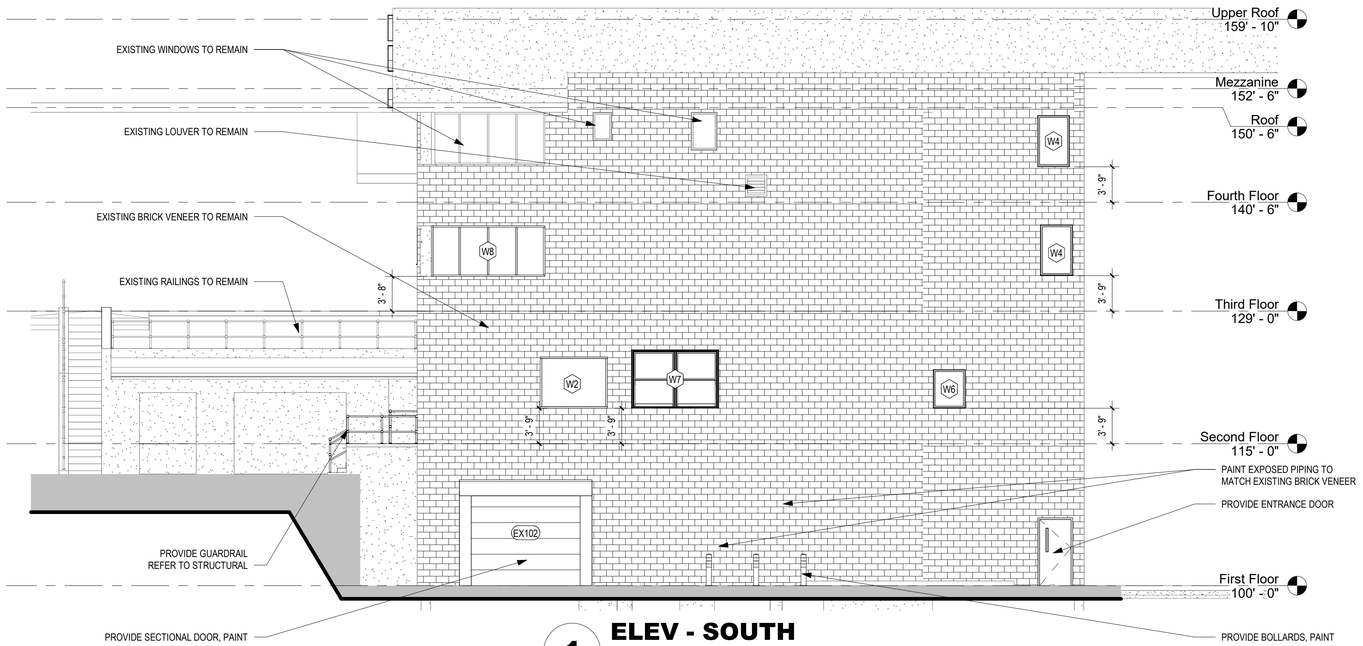
1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"

GENERAL NOTES

A. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL WORK.

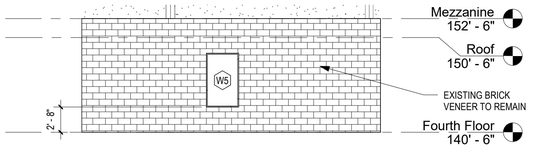
B. PROVIDE BRAKE METAL/ SHEET METAL AS NEEDED TO CREATE CODE COMPLIANT LEDGE IN ELEVATOR SHAFT.

C. FIRESTOP OR FIRE SEAL AROUND ANY OPENINGS AND PENETRATIONS IN ELEVATOR SHAFT AND PIT.



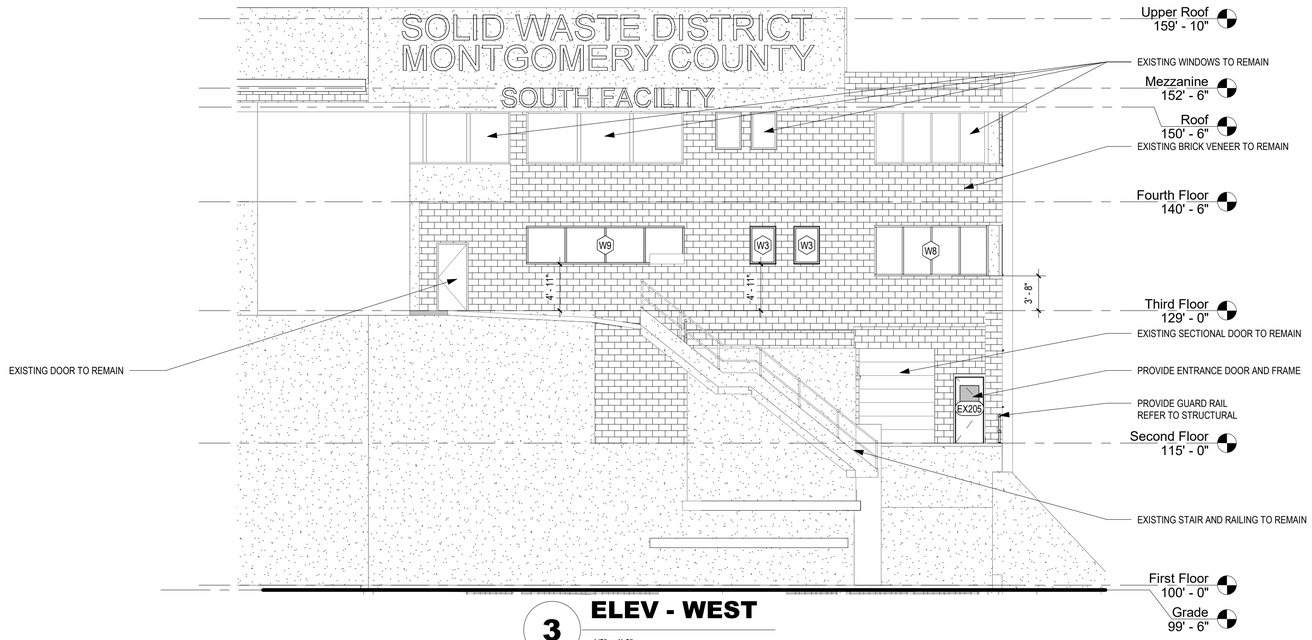
1 ELEV - SOUTH

1/8" = 1'-0"



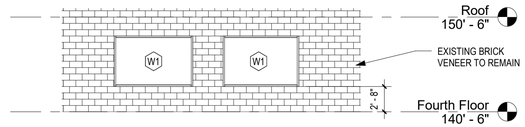
2 ELEV - SOUTH @ MEZZANINE

1/8" = 1'-0"



3 ELEV - WEST

1/8" = 1'-0"



4 ELEV - EAST @ MEZZANINE

1/8" = 1'-0"

SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD.	DATE:

EXTERIOR ELEVATIONS

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

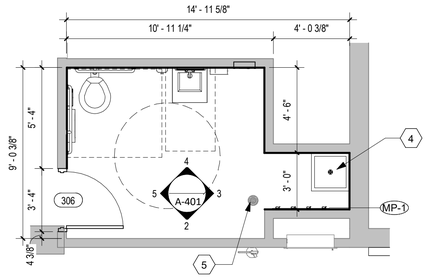
SHEET NO.

A-201

PROJ NO.: 25013

DATE: 08/19/2026

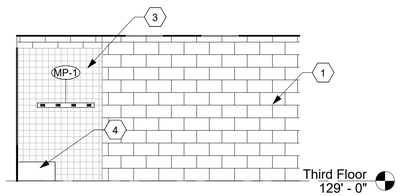
1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 PLAN - RESTROOM 306

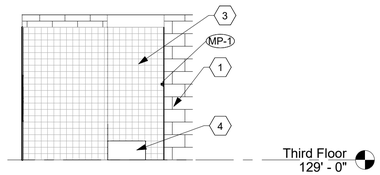
1/4" = 1'-0"

N



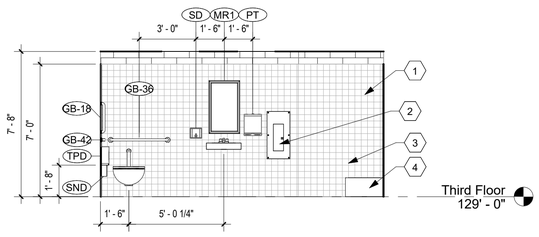
2 ELEV - RESTROOM 306 SOUTH

1/4" = 1'-0"



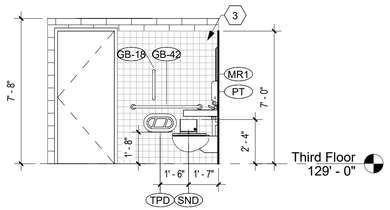
3 ELEV - RESTROOM 306 EAST

1/4" = 1'-0"



4 ELEV - RESTROOM 306 NORTH

1/4" = 1'-0"



5 ELEV - RESTROOM 306 WEST

1/4" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET A-001 FOR FIXTURE MOUNTING HEIGHTS AND TYPES.

B. REFER TO EXTERIOR ELEVATIONS FOR WINDOWS TYPES.

C. CLEAN ALL AREAS OF WORK.

D. PREP ALL WALLS ACCORDING TO DSD-0, [09 01 90.52]. REFER TO FINISH SCHEDULE FOR FINISHES.

E. PREP ALL CONCRETE FLOORS. REFER TO FINISH SCHEDULE FOR FINISHES.

F. SEAL ALL PENETRATIONS IN EXISTING CMU WALLS.

P-# SEE PHOTO # ON SHEET S-301 FOR ADDITIONAL INFORMATION.

CODED NOTES (X)

1	PATCH & REPAIR WALL TO RECEIVE FINISH
2	PROVIDE ELECTRICAL PANEL. REFER TO ELECTRICAL DRAWINGS.
3	PROVIDE 7' - 0" H TILE WAINSCOT.
4	PROVIDE 2' - 0" X 2' - 0" MOP BASIN. REFER TO PLUMBING DRAWINGS.
5	FLOOR DRAIN, REFER TO PLUMBING DRAWINGS.

FIXTURE SCHEDULE

TAG	DESCRIPTION	REMARKS
GB-18	18" GRAB BAR	
GB-36	36" GRAB BAR	
GB-42	42" GRAB BAR	
MP-1	MOP HOLDER	
MR1	MIRROR	1' - 6" x 2' - 8"
PT	PAPER TOWEL DISPENSER	
SD	SOAP DISPENSER	
SND	SANITARY NAPKIN DISPOSAL	
TPD	TOILET PAPER DISPENSER	

SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D	DATE

RESTROOM PLANS & ELEVATIONS

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO.

A-401

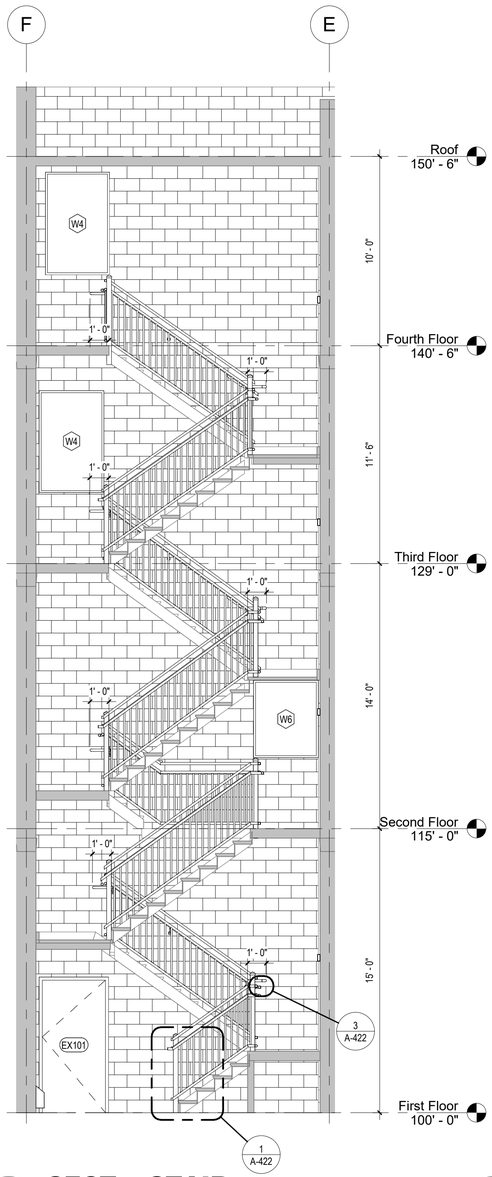
PROJ NO.: 25013

DATE: 08/19/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"

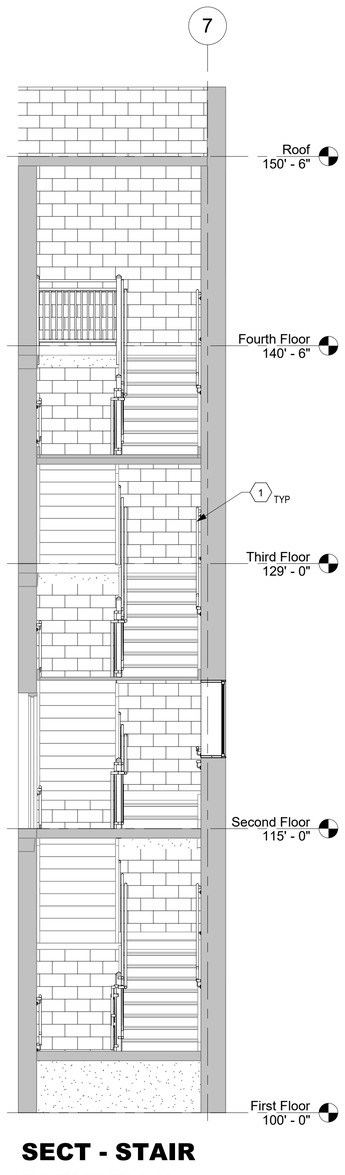
CODED NOTES (X)

1	PROVIDE STEEL GUARDRAIL & HANDRAIL @ EXISTING STAIRS, PAINT. EXISTING POST TO REMAIN. REFER TO DETAIL 5 & 6 ON SHEET A-422.
2	PROVIDE UNIT HEATER, REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.
3	PATCH & REPAIR WALLS, DOOR, & STAIRS TO RECEIVE FINISH
4	PAINT STAIRWELL & DOOR P-1 (SHEEN TYPE B)
5	PAINT STAIR TREADS AND RISERS P-2 (SHEEN TYPE B)
6	PROVIDE LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.



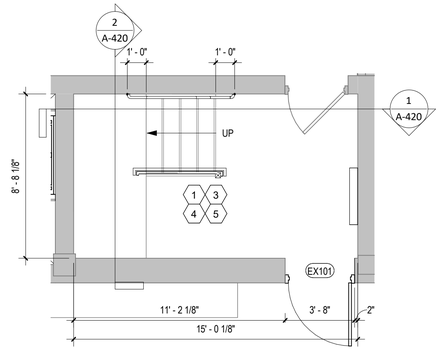
1 SECT - STAIR

1/4" = 1'-0"



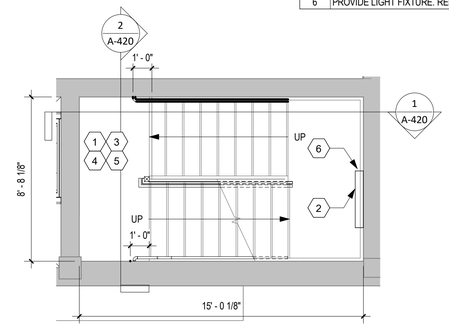
2 SECT - STAIR ELEVATION

1/4" = 1'-0"



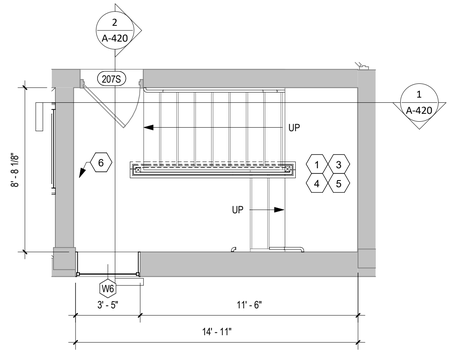
3 FIRST FLOOR STAIRS

1/4" = 1'-0"



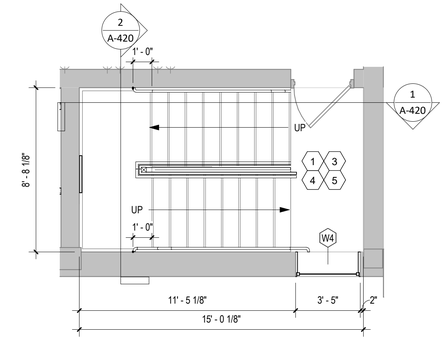
4 FIRST FLOOR STAIRS CON.

1/4" = 1'-0"



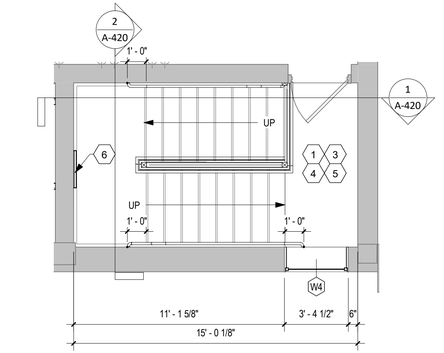
5 SECOND FLOOR STAIRS

1/4" = 1'-0"



6 THIRD FLOOR STAIRS

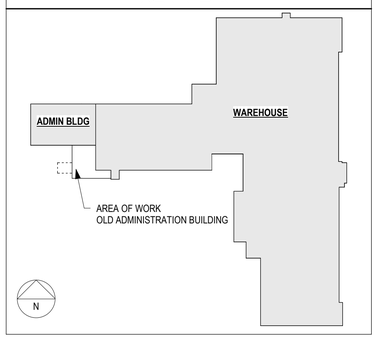
1/4" = 1'-0"



7 FOURTH FLOOR STAIRS

1/4" = 1'-0"

KEY PLAN



SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE

STAIR PLANS & ELEVATIONS

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

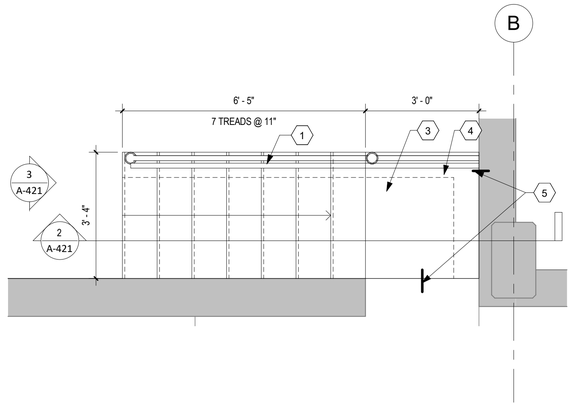
SHEET NO.

A-420

PROJ NO.: 25013

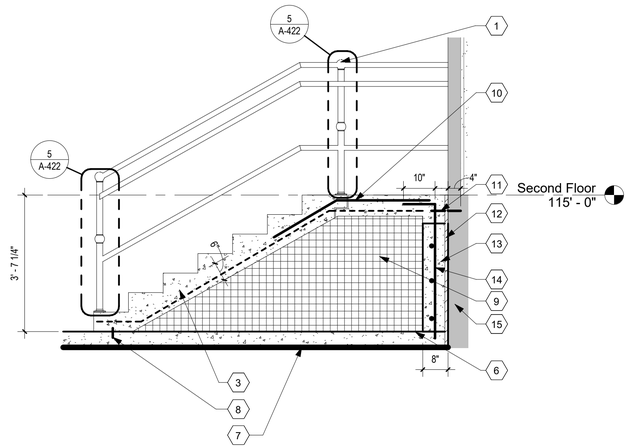
DATE: 08/19/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



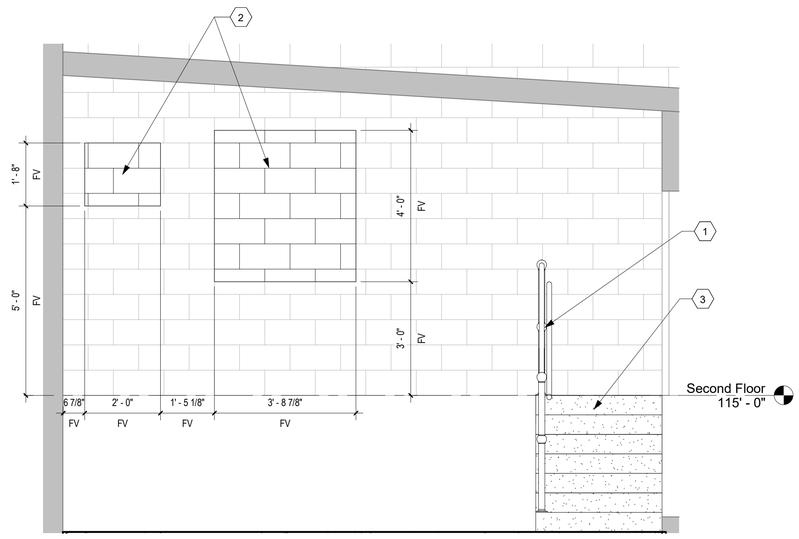
ENLARGED PLAN - SECOND FLOOR DOCK STAIR

1 1/2" = 1'-0"



ELEV - SECOND FLOOR DOCK STAIR

2 1/2" = 1'-0"



ELEV - SECOND FLOOR GARAGE

3 1/2" = 1'-0"

CODED NOTES (X)

1	PROVIDE STEEL HANDRAIL @ STAIRS. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
2	INFILL EXISTING OPENING WITH CMU BLOCK WITH BRICK VENEER TO MATCH SURROUNDING.
3	PROVIDE 6" STAIR CONC SLAB WITH (1) LAYER 6X6 - W2.9 X W2.9 WWR CENTERED.
4	OUTLINE OF CONCRETE KNEE WALL BELOW.
5	REBAR DOWELS - SEE SECTION.
6	PROVIDE 5" S.O.G. SEE S-002 FOR EXTERIOR GARAGE PLAN.
7	PROVIDE 15 MIL VAPOR BARRIER BELOW SLAB.
8	PROVIDE (3) #4 X 0'-5" LONG REBAR DOWELS EQUALLY SPACED. INSTALL INTO NEW CONCRETE SLAB USING HILTI HY200 ADHESIVE WITH 2 1/2" EMBEDMENT.
9	PROVIDE EPS 22 RIGID INSULATION.
10	PROVIDE #4 @ 12" BENT TOP BARS (1'-8" X 1'-8").
11	PROVIDE (3) #4 X 1'-0" LONG REBAR DOWELS EQUALLY SPACED. INSTALL INTO EX. CONC. AROUND 2 SIDES USING HILTI HY200 ADHESIVE WITH 4" EMBEDMENT.
12	PROVIDE 1" COMPRESSIBLE FILLER ALONG INTERFACE WITH EXISTING.
13	PROVIDE CONC. KNEE WALL WITH (3) #4 HORZ.
14	PROVIDE #4@12" O.C. HOOKED BARS. INSTALL INTO NEW SLAB USING HILTI HY200 ADHESIVE. EMBEDMENT = 2 1/2" (TYP. 2 SIDES).
15	EXISTING 18"± CONC. WALL TO REMAIN.

SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE:

STAIR PLANS & ELEVATIONS

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

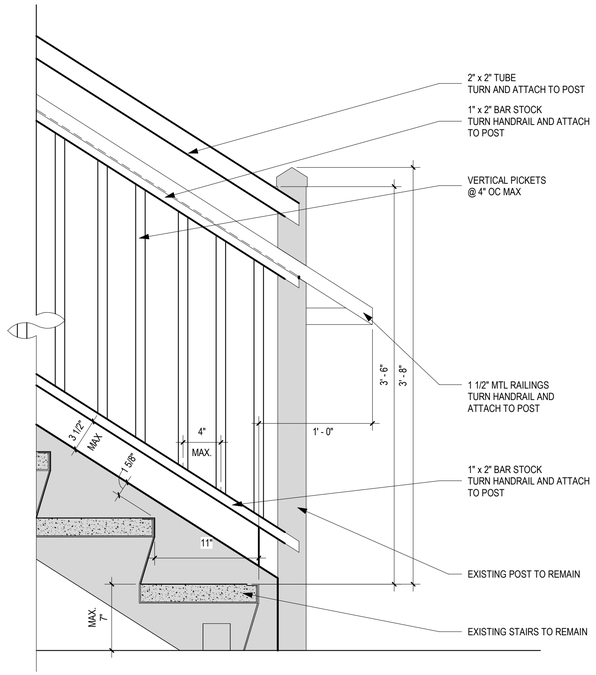
SHEET NO.

A-421

PROJ NO.: 25013

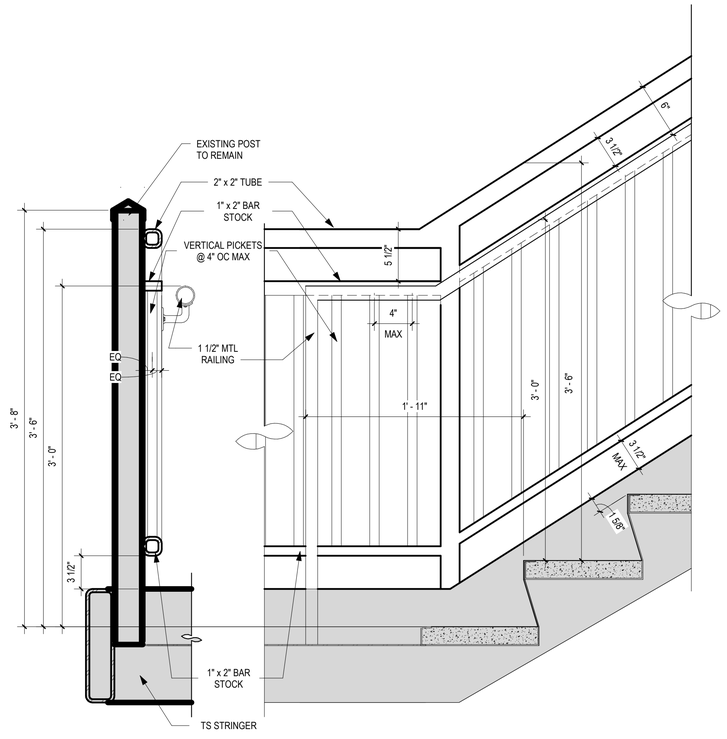
DATE: 08/19/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



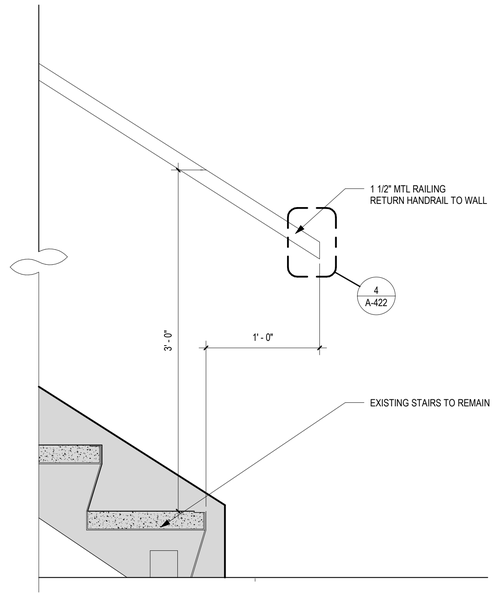
1 DET - TYP BOTTOM OF STAIR PICKET

1 1/2" = 1'-0"



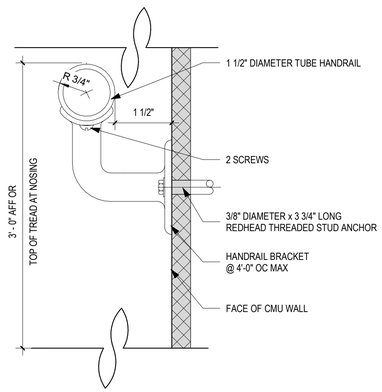
2 DET - STAIR LANDING

1 1/2" = 1'-0"



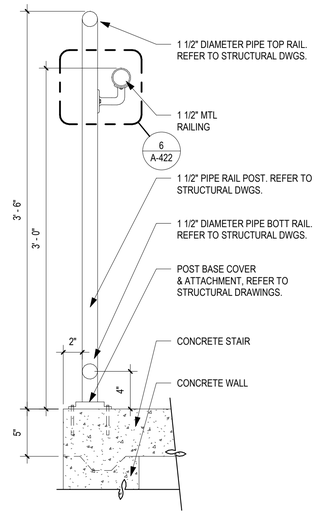
3 DET - TYP STAIR BOTTOM DETAIL @ WALL

1 1/2" = 1'-0"



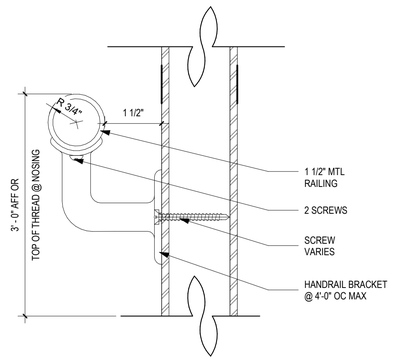
4 DET - TYP HANDRAIL @ CMU/CONCRETE

6" = 1'-0"



5 DTL - RAILING

1 1/2" = 1'-0"



6 DET - TYP HANDRAIL @ STAIR RAILING

6" = 1'-0"

SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE

TYPICAL STAIR DETAILS

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO.
A-422

PROJ NO.: 25013
DATE: 08/19/2026

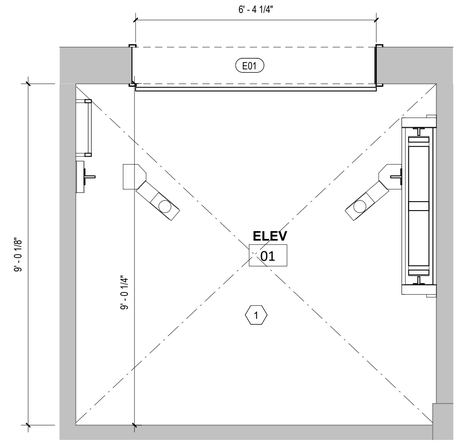
1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"

GENERAL NOTES

A. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL WORK.

B. PROVIDE BRAKE METAL/ SHEET METAL AS NEEDED TO CREATE CODE COMPLIANT LEDGE IN ELEVATOR SHAFT.

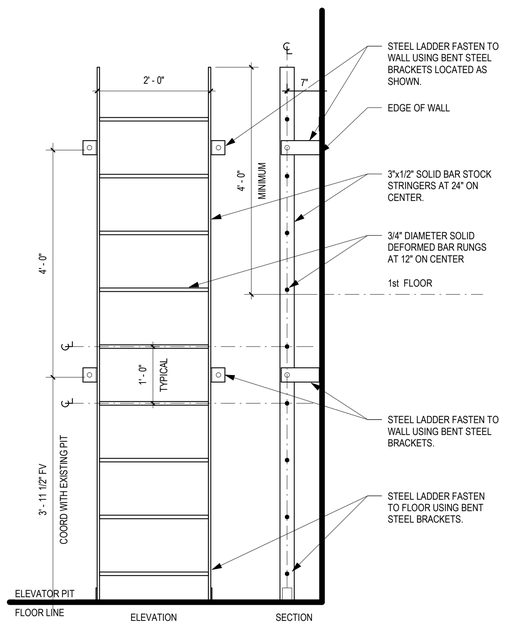
C. FIRESTOP OR FIRE SEAL AROUND ANY OPENINGS AND PENETRATIONS IN ELEVATOR SHAFT AND PIT.



PLAN - ELEVATOR CAB ENLARGED

1

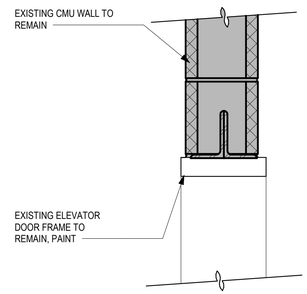
1/2" = 1'-0"



SECT- LADDER @ ELEVATOR PIT

2

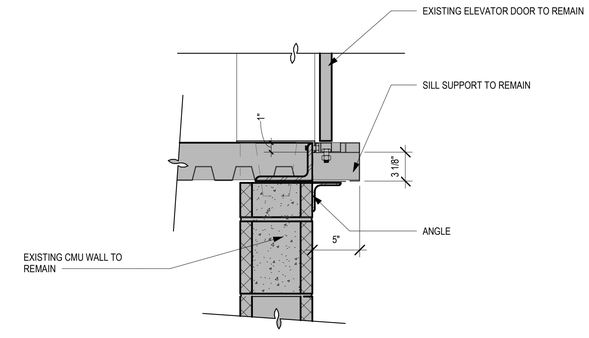
3/4" = 1'-0"



DET- ELEVATOR DH

3

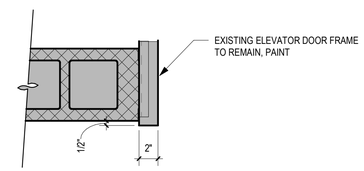
1 1/2" = 1'-0"



DET- ELEVATOR DOOR SILL

4

1 1/2" = 1'-0"



DET- ELEVATOR DJ

5

1 1/2" = 1'-0"

SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD.	DATE

ELEVATOR PLANS & DETAILS

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

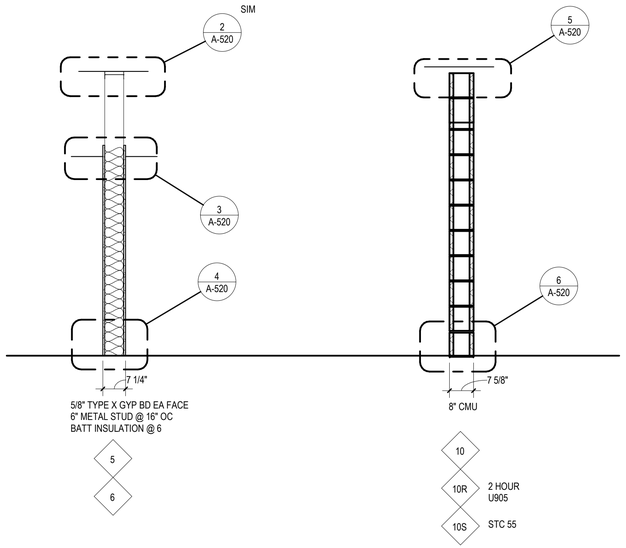
SHEET NO.

A-423

PROJ NO.: 25013

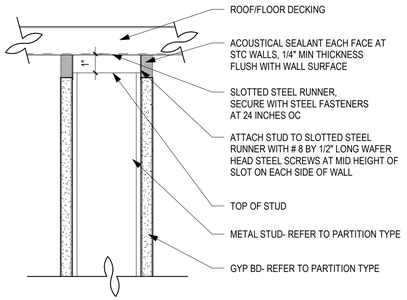
DATE: 08/19/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



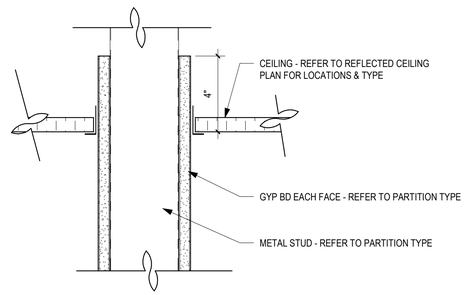
1 INTERIOR PARTITION TYPES

1/2" = 1'-0"



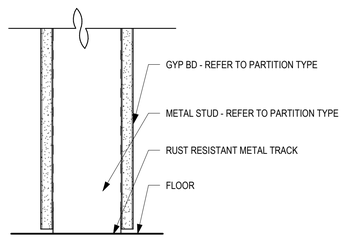
2 DET - HD @ GYP BD PARTITION TYP

3" = 1'-0"



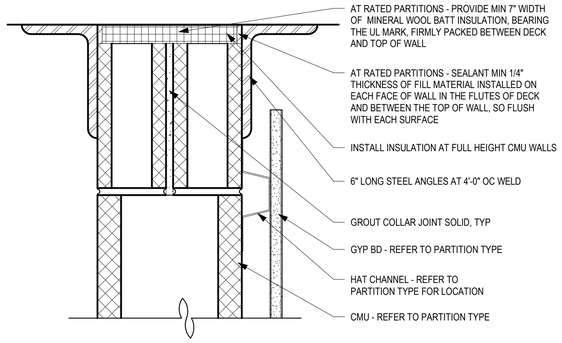
3 DET - CLG @ GYP BD PARTITION TYP

3" = 1'-0"



4 DET - FLR @ GYP BD PARTITION TYP

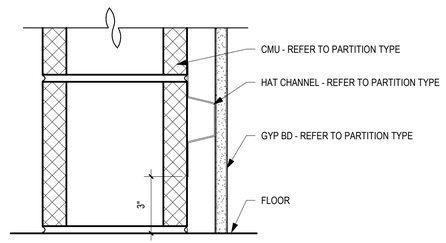
3" = 1'-0"



UL NO. HW-D-0039

5 DET - HD @ CMU PARTITION TYP

3" = 1'-0"



6 DET - FLR @ CMU PARTITION

3" = 1'-0"

SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD.	DATE:

INTERIOR PARTITION TYPES & DETAILS

MCES 130075-64

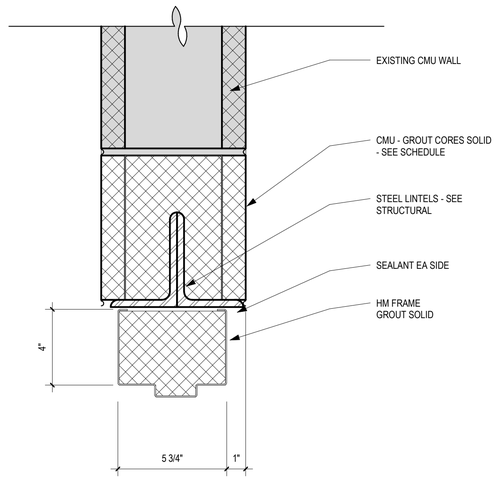
MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

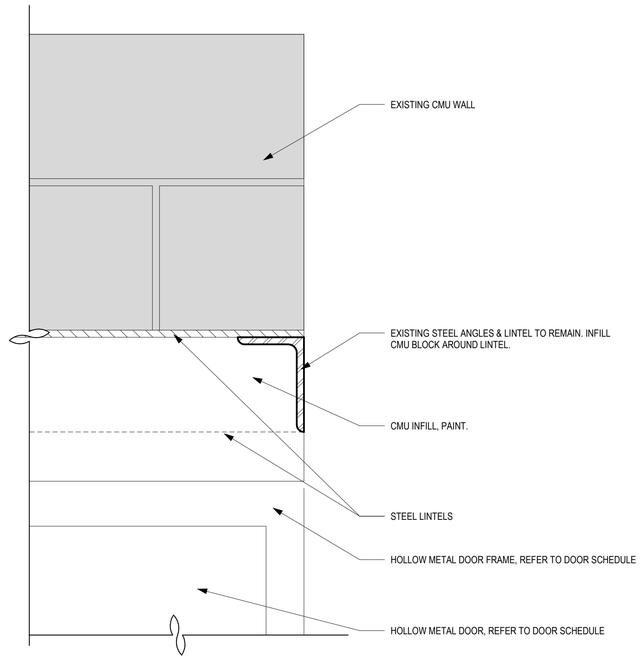
SHEET NO.
A-520

PROJ NO.: 25013
DATE: 08/19/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



SECTION VIEW



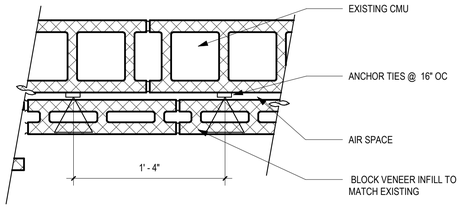
ELEVATION VIEW



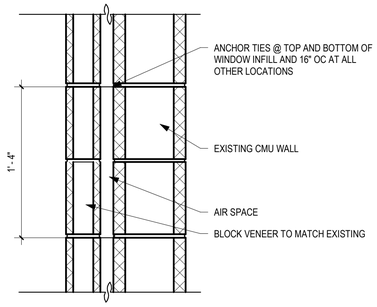
EXISTING DOOR CONDITION - PHOTO FOR REFERENCE ONLY

1 DET - CMU INFILL @ EXISTING OPENING

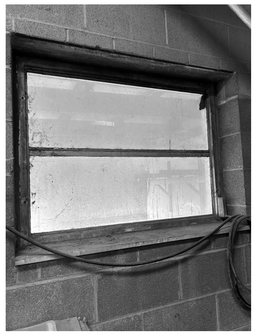
3" = 1'-0"



PLAN VIEW



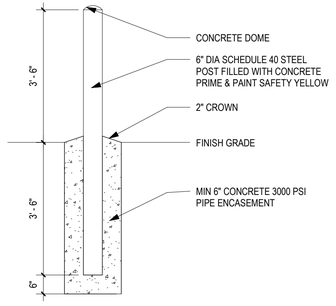
SECTION VIEW



EXISTING WINDOW CONDITION - PHOTO FOR REFERENCE ONLY

2 TYP EXT WALL INFILL ASSEMBLY DETAIL

1 1/2" = 1'-0"



3 DET - BOLLARD DETAIL

1/2" = 1'-0"

SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE:

TYPICAL DETAILS

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2590 SANDRIDGE DRIVE
MORAINE, OHIO 45439

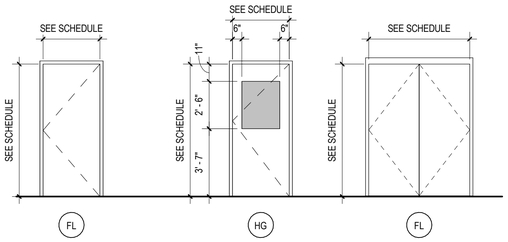
SHEET NO.

A-540

PROJ NO.: 25013

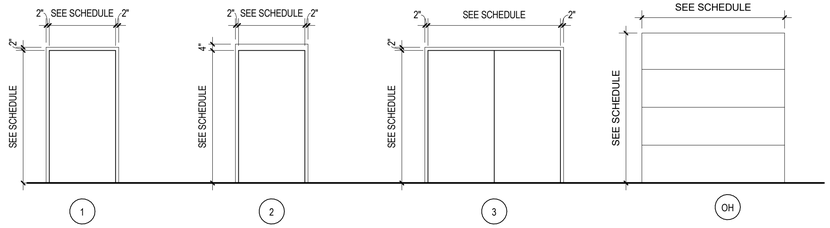
DATE: 08/19/2026

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



DOOR TYPES

1/4" = 1'-0"



DOOR FRAME TYPES

1/4" = 1'-0"

FIRST FLOOR DOOR SCHEDULE

DOOR NO.	DOOR DIMENSIONS W	H	T	TYPE	MATERIAL	GLAZING	FRAME MATERIAL	TYPE	GLAZING	DETAIL HEAD	JAMB	SILL	HARDWARE	LABEL	REMARKS
102	3' - 0"	7' - 0"	1 3/4"	FL	HM	-	HM	1	-	1	2	-	01		1, 7
103	3' - 0"	7' - 0"	1 3/4"	FL	HM	-	EXIST	-	-	-	-	-	02		5, 7
104	3' - 0"	7' - 2"	2"	FL	HM	-	EXIST	-	-	-	-	-	03		
105	5' - 0"	7' - 0"	1 3/4"	FL	HM	-	HM	3	-	1	2	-	04		1, 6, 7
EX101	3' - 4"	7' - 0"	1 3/4"	NL	HM	-	EXIST	-	-	-	-	-	11		4, 7
EX102	12' - 0"	10' - 0"		OH	MTL	-	MTL	-	-	5	6	7	-		
EX106	3' - 0"	7' - 0"	1 3/4"	FL	HM	-	HM	3	-	1	2	-	12		1, 7

SECOND FLOOR DOOR SCHEDULE

DOOR NO.	DOOR DIMENSIONS W	H	T	TYPE	MATERIAL	GLAZING	FRAME MATERIAL	TYPE	GLAZING	DETAIL HEAD	JAMB	SILL	HARDWARE	LABEL	REMARKS
201	5' - 0"	7' - 0"	1 3/4"	FL	HM	-	HM	2	-	1	2	-	05		2, 6, 7
203	6' - 0"	7' - 0"	1 3/4"	EXIST	HM	-	EXIST	-	-	-	-	-	06	90 min	2, 7
207	3' - 0"	7' - 0"	1 3/4"	FL	HM	-	HM	1	-	1	2	-	07		
207S	3' - 0"	7' - 0"	1 3/4"	EXIST	HM	-	EXIST	-	-	-	-	-	08		3, 7
EX205	3' - 0"	7' - 0"	1 3/4"	HG	HM	GL-3T	HM	2	-	1	2	-	13		1, 7
EX207	5' - 4"	7' - 0"	1 3/4"	EXIST	HM	-	EXIST	-	-	-	-	-	-		2, 7

THIRD FLOOR DOOR SCHEDULE

DOOR NO.	DOOR DIMENSIONS W	H	T	TYPE	MATERIAL	GLAZING	FRAME MATERIAL	TYPE	GLAZING	DETAIL HEAD	JAMB	SILL	HARDWARE	LABEL	REMARKS
306	3' - 0"	7' - 0"	1 3/4"	FL	HM	-	HM	1	-	3	4	-	09		
EX309	3' - 0"	7' - 0"	1 3/4"	EXIST	HM	-	EXIST	-	-	-	-	-	14		2, 7

FOURTH FLOOR DOOR SCHEDULE

DOOR NO.	DOOR DIMENSIONS W	H	T	TYPE	MATERIAL	GLAZING	FRAME MATERIAL	TYPE	GLAZING	DETAIL HEAD	JAMB	SILL	HARDWARE	LABEL	REMARKS
413	2' - 8"	7' - 0"	1 3/4"	FL	HM	-	HM	1	-	1	2	-	10		4,7
EX413	3' - 0"	7' - 0"	1 3/4"	FL	HM	-	HM	1	-	1	2	-	15		1, 7

REMARKS

1. FIELD VERIFY MASONRY OPENING
2. PROVIDE HARDWARE
3. PROVIDE PANIC HARDWARE
4. DOOR FRAME EXISTING TO REMAIN
5. PROVIDE SELF CLOSING, SELF LOCKING DOOR HARDWARE.
6. UNEVEN PAIR - ONE ACTIVE, ONE INACTIVE LEAF
7. DOORS TO BE FIELD VERIFIED

SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD.	DATE:

DOOR SCHEDULE, TYPES & DETAILS

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

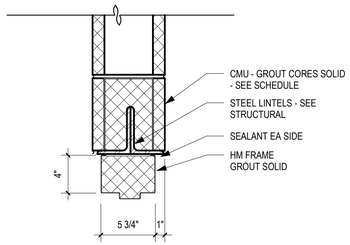
SHEET NO.

A-601

PROJ NO.: 25013

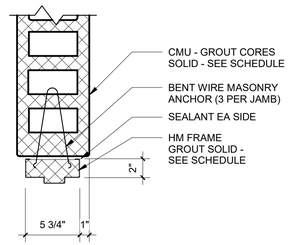
DATE: 08/19/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



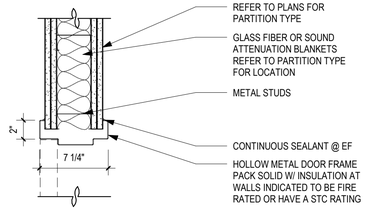
1 DOOR HEAD @ CMU

1 1/2" = 1'-0"



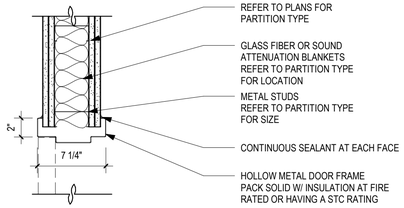
2 DOOR JAMB @ CMU

1 1/2" = 1'-0"



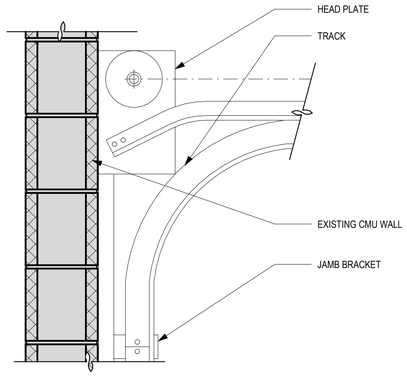
3 DET - DH @ 2 HR GYP BD PARTITION

1 1/2" = 1'-0"



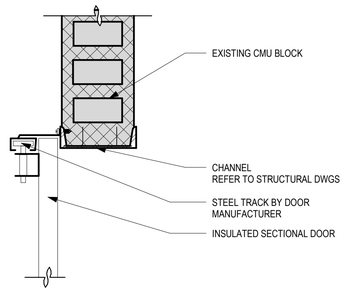
4 DET - DJ @ 2 HR GYP BD PARTITION

1 1/2" = 1'-0"



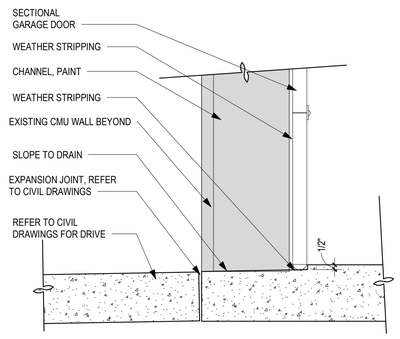
5 DET - DH @ OVERHEAD DOOR

1 1/2" = 1'-0"



7 DET- DJ @ OVERHEAD DOOR

1 1/2" = 1'-0"



6 DET -HM SILL @ CMU VENEER

1 1/2" = 1'-0"

SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE:

TYPICAL DOOR DETAILS

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2650 SANDRIDGE DRIVE
MORAINE, OHIO 45439

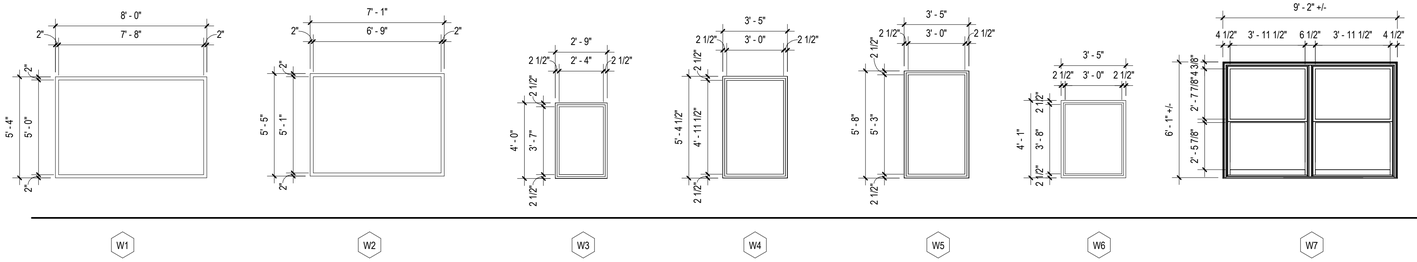
SHEET NO.

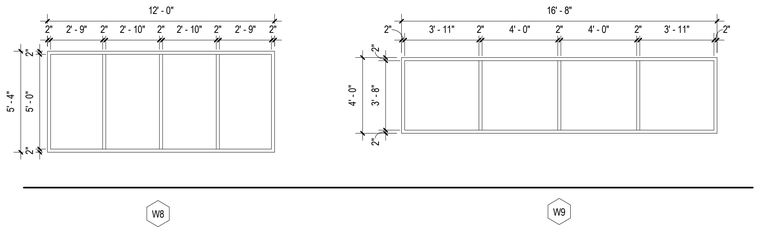
A-602

PROJ NO.: 25013

DATE: 08/19/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"





NOTE: REFER TO ELEVATIONS FOR WINDOW SILL HEIGHTS

GENERAL NOTES

A. CONTRACTOR TO FIELD VERIFY ALL WINDOW OPENING DIMENSIONS.
B. MULLION SIZES ARE +/- 2" UON.
C. MULLION SIZES ARE TO BE EQUAL ON EACH WINDOW AS GRAPHICALLY SHOWN, UON.
D. ALL GLAZING TO BE GL-3T UON.
E. REFER TO EXTERIOR ELEVATIONS FOR LOCATION OF WINDOWS TO BE REPLACED.

WINDOW SCHEDULE

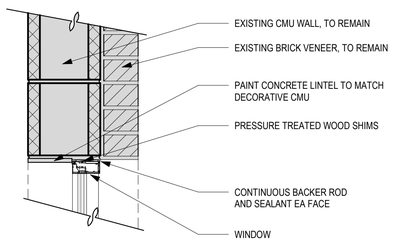
WINDOW TYPE	OPERATION	MATERIAL	INTERIOR FINISH	GLAZING	DETAILS			REMARKS
					HEAD	JAMB	SILL	
W1	FIXED	ALUM	ALUM	GL-3T	2 / A-610	3 / A-610	4 / A-610	1
W2	FIXED	ALUM	ALUM	GL-3T	2 / A-610	3 / A-610	4 / A-610	1
W3	FIXED	ALUM	ALUM	GL-3T	2 / A-610	3 / A-610	4 / A-610	1
W4	FIXED	ALUM	ALUM	GL-3T	2 / A-610	3 / A-610	4 / A-610	1
W5	FIXED	ALUM	ALUM	GL-3T	2 / A-610	3 / A-610	4 / A-610	1
W6	FIXED	ALUM	ALUM	GL-3T	2 / A-610	3 / A-610	4 / A-610	1
W7	DOUBLE HUNG	ALUM	ALUM	GL-3T	5 / A-610	6 / A-610	7 / A-610	1
W8	FIXED	ALUM	ALUM	GL-3T	2 / A-610	3 / A-610	4 / A-610	1
W9	FIXED	ALUM	ALUM	GL-3T	2 / A-610	3 / A-610	4 / A-610	1

REMARKS

1. WINDOWS TO BE FIELD VERIFIED.

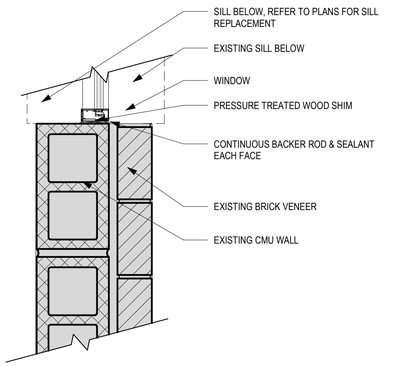
WINDOW TYPES

1/4" = 1'-0"



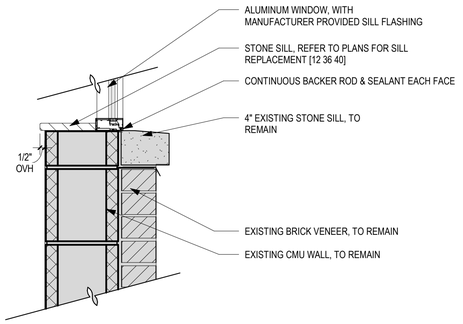
2 DET - WINDOW HEADER @ EXISTING CMU WALL

1 1/2" = 1'-0"



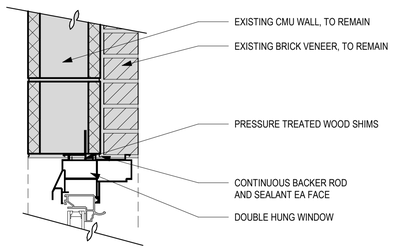
3 DET - WINDOW JAMB @ EXISTING CMU WALL

1 1/2" = 1'-0"



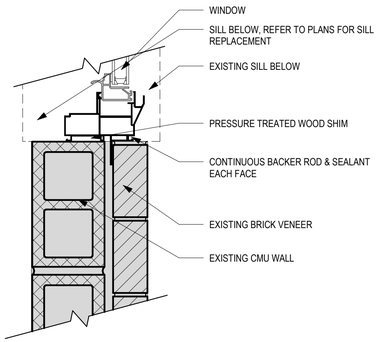
4 DET - WINDOW SILL @ EXISTING CMU WALL

1 1/2" = 1'-0"



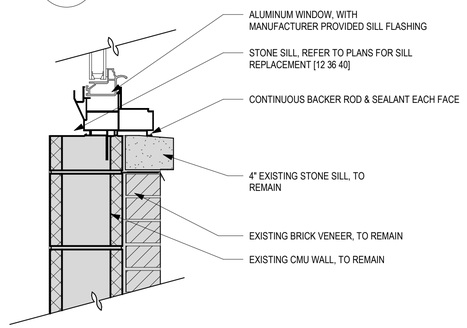
5 DET - DOUBLE HUNG WINDOW HEADER @ EXISTING CMU WALL

1 1/2" = 1'-0"



6 DET - WINDOW JAMB @ EXISTING CMU WALL

1 1/2" = 1'-0"



7 DET - WINDOW SILL @ EXISTING CMU WALL

1 1/2" = 1'-0"

SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE:

WINDOW SCHEDULE, ELEVATIONS & DETAILS

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION
MCES 130075-64
2650 SANDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO.
A-610

PROJ NO.: 25013
DATE: 08/19/2026

1/16" = 1'-0" 0 4' 8' 16'

1/8" = 1'-0" 0 2' 4' 8'

3/16" = 1'-0" 0 2' 4' 8'

1/4" = 1'-0" 0 1' 2' 4'

3/8" = 1'-0" 0 1' 2' 4'

1/2" = 1'-0" 0 6" 1' 2'

3/4" = 1'-0" 0 3" 6" 1' 2'

1" = 1'-0" 0 3" 6" 1' 2'

1 1/2" = 1'-0" 0 3" 6" 1'

3" = 1'-0" 0 1" 2" 3" 6" 1'

6" = 1'-0" 0 1" 2" 3" 6"

FIRST FLOOR FINISH SCHEDULE

ROOM NO.	ROOM DESCRIPTION	FLOOR BASE	FLOOR MATERIAL	WALL FINISH				CEILING	
				NORTH	EAST	SOUTH	WEST	MATERIAL	FINISH
01	STAIRS	-	EPOXY	P-1	P-1	P-1	P-1	EXIST	P-1A
01	ELEV	-	-	-	-	-	-	-	-
101	STORAGE	WB-2	SEAL	P-1	P-1	P-1	P-1	EXIST	P-1A
102	STORAGE	WB-2	SEAL	P-1	P-1	P-1	P-1	EXIST	P-1A
103	ELEVATOR CONTROL ROOM	WB-2	SEAL	P-1	P-1	P-1	P-1	EXIST	P-1A
104	JANITOR	WB-2	SEAL	P-1	P-1	P-1	P-1	EXIST	P-1A
105	CORRIDOR	WB-2	SEAL	P-1	P-1	P-1	P-1	EXIST	P-1A

SECOND FLOOR FINISH SCHEDULE

ROOM NO.	ROOM DESCRIPTION	FLOOR BASE	FLOOR MATERIAL	WALL FINISH				CEILING	
				NORTH	EAST	SOUTH	WEST	MATERIAL	FINISH
02	ELEV	-	-	-	-	-	-	-	P-1A
02	STAIRS	-	EPOXY	P-1	P-1	P-1	P-1	EXIST	P-1A
201	STORAGE	WB-2	SEAL	P-1	P-1	P-1	P-1	EXIST	P-1A
202	STORAGE	WB-2	SEAL	P-1	P-1	P-1	P-1	EXIST	P-1A
203	ELECTRICAL ROOM	WB-2	SEAL	P-1	P-1	P-1	P-1	EXIST	P-1A
204	STORAGE	WB-2	SEAL	P-1	P-1	P-1	P-1	EXIST	P-1A
207	CORRIDOR	WB-2	SEAL	P-1	P-1	P-1	P-1	EXIST	P-1A

THIRD FLOOR FINISH SCHEDULE

ROOM NO.	ROOM DESCRIPTION	FLOOR BASE	FLOOR MATERIAL	WALL FINISH				CEILING	
				NORTH	EAST	SOUTH	WEST	MATERIAL	FINISH
03	STAIRS	-	EPOXY	P-1	P-1	P-1	P-1	EXIST	P-1A
03	ELEV	-	-	-	-	-	-	-	-
301	STORAGE	WB-2	SEAL	P-1	P-1	P-1	P-1	EXIST	P-1A
301B	STORAGE	WB-2	SEAL	P-1	P-1	P-1	P-1	EXIST	P-1A
306	RESTROOM	WB-1	CT-1	P-1	P-1	P-1	P-1	EXIST	P-1A
307	STORAGE	WB-2	SEAL	P-1	P-1	P-1	P-1	EXIST	P-1A
308	MECH	WB-2	SEAL	P-1	P-1	P-1	P-1	EXIST	P-1A
309	CORRIDOR	WB-2	SEAL	P-1	P-1	P-1	P-1	EXIST	P-1A

FOURTH FLOOR FINISH SCHEDULE

ROOM NO.	ROOM DESCRIPTION	FLOOR BASE	FLOOR MATERIAL	WALL FINISH				CEILING	
				NORTH	EAST	SOUTH	WEST	MATERIAL	FINISH
04	STAIRS	-	EPOXY	P-1	P-1	P-1	P-1	EXIST	P-1A
04	ELEVATOR	-	-	-	-	-	-	-	-

Item No.	Manufacturer	Product Line	Color #	Color Name	Unit Size	Remarks
09 30 13 - Ceramic Tiling						
CT-1	Daltile	Color Wheel	0190	Arctic White	6"x6"	Glossy (Wall Tile)
CT-2	Daltile	Core Fundamentals	SQ20	Weathered White	12"x12"	Matte (Floor Tile)
CT-3	Daltile	Color Wheel	0190	Arctic White	6"x6"	Sanitary Cove Base (S3619T)
09 65 13 - Wall Base						
RB-1	Johnsonite	Baseworks	121	Cement	4"	Rubber Wall Base
09 91 23 - Interior Painting						
P-1	Sherwin Williams	n/a	SW 7004	Snowbound	n/a	
SEAL		n/a				
EPOXY	Sherwin Williams		SW 9170	Acier	n/a	

GENERAL NOTES

A. PAINT SHEEN IS TYPE 'C' UON.

B. PAINT ALL EXPOSED CONDUIT; STRUCTURAL STEEL; ELECTRICAL RACEWAYS AND BOXES; MECHANICAL PIPING, DUCTS AND EQUIPMENT; & PLUMBING PIPING, WITH THE EXCEPTION OF PRE-FINISHED AND INSULATED ITEMS, TO MATCH ADJACENT PAINTED SURFACE, UON.

C. SEAL ALL EXPOSED CONCRETE FLOORS, UON.

D. PROVIDE METAL TRANSITION STRIPS WHERE CERAMIC FLOOR TILE TRANSITIONS TO ANOTHER MATERIAL.

E. PAINT ALL METAL ACCESS PANELS & FRAMES TO MATCH ADJACENT SURFACES, UON.

FINISH SYMBOLS LEGEND

ACOUSTICAL CEILING TILE [09 51 13]	ACT-X
CERAMIC TILE [09 30 13]	CT-X
EPOXY PAINT [09 96 00]	EPOXY
PAINT [09 91 24]	P-XX
SEAL CONCRETE	SEAL
WALL BASE [09 65 13]	WB-X

SHEEN LEGEND

A FLAT- MPI GLOSS LEVEL 1
B EGGSHELL / EG-SHEL / SATIN- MPI GLOSS LEVEL 3
C SEMI-GLOSS- MPI GLOSS LEVEL 5
D HIGH GLOSS- MPI GLOSS LEVEL 6

SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DESCRIPTION	DATE	APP'VD.	DATE:

FINISH FLOOR PLANS & SCHEDULES

MCES 130075-64
2590 SANDRIDGE DRIVE
MORAINE, OHIO 45439

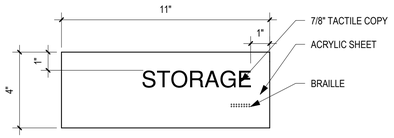
MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

SHEET NO.
A-620

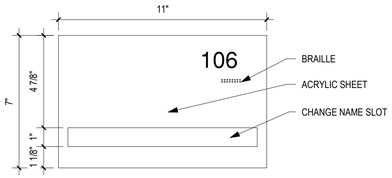
PROJ NO.: 25013

DATE: 08/19/2026

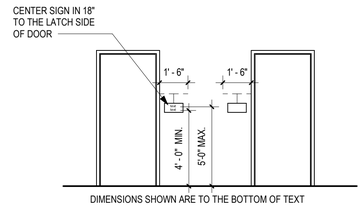
1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



A



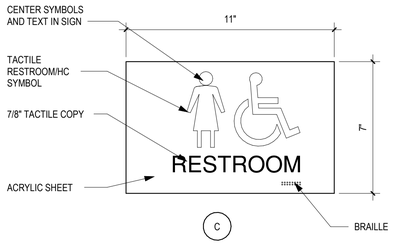
B



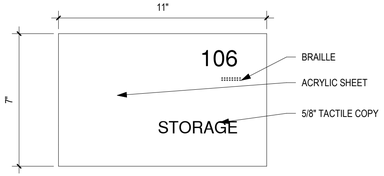
1 2

SIGN LOCATIONS

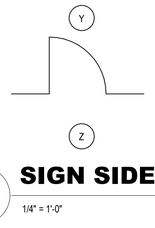
1/4" = 1'-0"



C

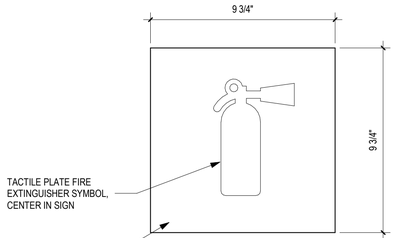


D

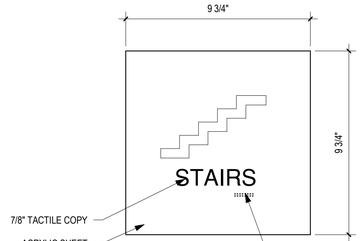


SIGN SIDE OF DOOR

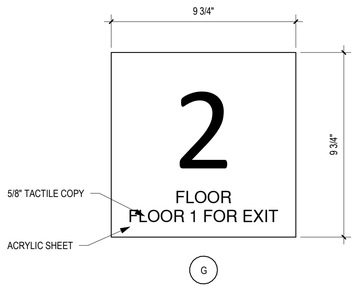
1/4" = 1'-0"



E



F



G

SIGN TYPES

3" = 1'-0"

GENERAL NOTES

A. TACTILE COPY/SYMBOLS SHALL BE RAISED CHARACTERS OR SYMBOLS AND SHALL BE RAISED 1/32 INCH MIN ABOVE THEIR BACKGROUND.

B. CHARACTERS SHALL BE UPPER CASE IN SANS SERIF. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS.

C. CHARACTER HIGH SHALL BE BETWEEN 5/8-INCH AND 2-INCHES UON.

D. PROVIDE SIGN TYPE "E" AT ALL FIRE EXTINGUISHERS AND FIRE EXTINGUISHER CABINET LOCATIONS. REFER TO PLANS FOR FIRE EXTINGUISHER LOCATIONS.

FIRST FLOOR SIGNAGE SCHEDULE

DOOR NO.	SIGN TYPE	SIGN LOCATION	SIDE OF DOOR	SIGNAGE COPY	REMARKS
101S	F	1	Z	STAIRS	
102	B	2	Y	TIPPING FLOOR	1, 7
103	D	2	Y	ELEVATOR CONTROL ROOM	5, 7
104	D	1	Y	CUSTODIAL	
E01	A	1	Y	ELEVATOR	
EX101	A	1	Z	EXIT	4, 7

SECOND FLOOR SIGNAGE SCHEDULE

DOOR NO.	SIGN TYPE	SIGN LOCATION	SIDE OF DOOR	SIGNAGE COPY	REMARKS
201	B	1	Y	STORAGE	2, 6, 7
203	D	1	Y	ELECTRICAL	2, 7
207	B	1	Z	STORAGE	
207S	F	2	Z	STAIRS	3, 7
E02	A	1	Y	ELEVATOR	
EX205	A	1	Y	EXIT	1, 7

THIRD FLOOR SIGNAGE SCHEDULE

DOOR NO.	SIGN TYPE	SIGN LOCATION	SIDE OF DOOR	SIGNAGE COPY	REMARKS
306	C	2	Z	RESTROOM	
307					
308	D	1	Y	MECHANICAL	
309S	F	1	Z	STAIRS	
E03	A	1	Y	ELEVATOR	
EX305	A	2	Z	EXIT	

FOURTH FLOOR SIGNAGE SCHEDULE

DOOR NO.	SIGN TYPE	SIGN LOCATION	SIDE OF DOOR	SIGNAGE COPY	REMARKS
413	F	1	Y	STAIRS	4,7
427	B	1	Z	OFFICE	1
428	B	1	Z	OFFICE	1
429	B	1	Z	OFFICE	1
431	C	1	Z	RESTROOM	2
432	C	1	Z	RESTROOM	2
432S	F	2	Y	STAIRS	
433	B	2	Z	OFFICE	1
435	A	2	Y	STORAGE	
437	D	1	Y	WORKROOM	
438					
438S	F	1	Z	STAIRS	
440	D	1	Y	STORAGE	
441					
442	D	1	Y	TIPPING FLOOR	
E04	A	1	Y	ELEVATOR	
EX413	B	1	Z	STORAGE	1, 7

REMARKS:
1. PRINT COPY ON INTERCHANGEABLE NAME PLATE
2. PROVIDE MAN AND WHEELCHAIR SYMBOL

SPGB ARCHITECTS
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE

SIGNAGE SCHEDULE

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

MCES 130075-64
2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO.

A-701

PROJ NO.: 25013

DATE: 08/19/2026

1/16" = 1'-0" 0 4' 8' 16' | 1/8" = 1'-0" 0 2' 4' 8' | 3/16" = 1'-0" 0 2' 4' 8' | 1/4" = 1'-0" 0 1' 2' 4' | 3/8" = 1'-0" 0 1' 2' 4' | 1/2" = 1'-0" 0 6" 1' 2' | 3/4" = 1'-0" 0 3" 6" 1' 2' | 1" = 1'-0" 0 3" 6" 1' 2' | 1 1/2" = 1'-0" 0 3" 6" 1' | 3" = 1'-0" 0 1" 2" 3" 6" 1' | 6" = 1'-0" 0 1" 2" 3" 6"

ABBREVIATIONS

@	At
A.B.	Anchor Bolt
AESS	Architecturally Exposed Structural Steel
AP	Aggregate Pier
ARCH.	Architect or Architectural
BLDG.	Building
BLKG.	Blocking
B.O.F.	Bottom of Footing
B.O.S.	Bottom of Steel
BOTT.	Bottom
BRG.	Bearing
CANT.	Cantilever
C.F.M.F.	Cold Formed Metal Framing
C.J.	Control Joint
CJP	Complete Joint Penetration
CLR.	Clear
CLSM	Controlled Low Strength Material
CMU	Concrete Masonry Unit
COL.	Column
CONC.	Concrete
CONN.	Connection
CONST.	Construction
CONT.	Continuous
CONTR.	Contractor
COORD.	Coordinate
C.W.	Curtain Wall
DET.	Detail
DIA. or ø	Diameter
DIAG.	Diagonal or Diagram
DWG.	Drawing
DWL.	Dowel
E.F.	Each Face
E.J.	Expansion Joint
EL.	Elevation
ELEV.	Elevator
EMBED.	Embedment
E.O.S.	Edge of Slab
E.O.P.	Edge of (bent) Plate
E.W.	Each Way
EX.	Existing
EXT.	Exterior
F.F.S.	Frost-Free Slab
F.S.	Far Side
FTG.	Footing
F.V.	Field Verify
GA.	Gauge or Gage
GALV.	Galvanized
H.P.	High Point
HORIZ.	Horizontal
I.F.	Inside Face
INT.	Interior
JT.	Joint
LLH	Long Leg Horizontal
LLV	Long Leg Vertical
LOC.	Location
L.P.	Low Point
LT. WT.	Lightweight
MASY.	Masonry
MAX.	Maximum
MECH.	Mechanical
MIN.	Minimum
N.F.	Near Face
N.I.C.	Not In Contract
N.T.S.	Not To Scale
O.C.	On Center
O.F.	Outside Face
OPNG.	Opening
OPP.	Opposite
P.C.	Precast
PJP	Partial Joint Penetration
R.	Radius
REF.	Reference
REINF.	Reinforcing or Reinforcement
REQD.	Required
SECT.	Section
SIM.	Similar
S.O.G.	Slab On Ground
S.S.	Stainless Steel
STIFF.	Stiffener or Stiffened
T&B	Top And Bottom
T.B.D.	To Be Determined
T.O.C.	Top of Concrete
T.O.F.	Top of Footing
T.O.S.	Top of Steel
T.O.W.	Top of Wall
TYP.	Typical
U.O.N.	Unless Otherwise Noted
VERT.	Vertical
W/	With
WWR	Welded Wire Reinforcement
W.P.	Work Point

CODES AND STANDARDS

1. New construction has been designed to, and shall be constructed in accordance with the following building codes and standards:
   A. 2024 Ohio Building Code (OBC 2024)
   B. 2024 Ohio Existing Building Code (OEBC 2024): Prescriptive Compliance Method
   C. ASCE 7-16, Minimum Design Loads and Associated Criteria for Buildings and Other Structures
2. Unless explicitly modified in the Contract Drawings and Specifications, the Contractor shall comply with provisions of:
   A. ACI 301-20, Specifications for Structural Concrete
   B. ACI 318-19, Building Code Requirements for Structural Concrete
   C. ACI 562-21, Code Requirements for Assessment, Repair, and Rehabilitation of Existing Concrete Structures
   D. ACI 563-18, Specifications for Repair of Concrete in Buildings
   E. TMS 402-16, Building Code Requirements for Masonry Structures
   F. TMS 602-16, Specification for Masonry Structures

DESIGN LOADS

Floor live load (unless otherwise noted) 1

Old Operations Building & Tipping Floor (Renovated floor spaces)	100 psf (1)
Garage slab-on-grade	100 psf

(1) Includes 15 psf partition allowance, unreduced (OBC 1607.5)

Roof live load	Not applicable
Roof snow load data	Not applicable

Wind design data

Ultimate design wind speed (OBC Figure 1609.3)	V_{ult} = 114 mph
Nominal design wind speed (OBC 1609.3.1)	V_{asd} = 87 mph
Risk category (OBC, Table 1604.5)	III
Exposure category (OBC 1609.4)	C
Internal pressure coefficient (ASCE 7, Table 26.13-1)	GCpi = 0.18±
Components and Cladding	
Effective Wind Area	20 ft² (2)
Zone 4 (Wall Interior)	+29.5, -32.1 psf
Zone 5 (Wall Corner)	+29.5, -38.6 psf

(+) Indicates pressure acting toward the surface
(-) Indicates pressure acting away from the surface

(2) Components and cladding engineer may calculate wind loads based on actual effective wind area per ASCE 7

Earthquake design data

Risk category (OBC, Table 1604.5)	III
Seismic importance factor (ASCE 7, Table 1.5-2)	I_e = 1.25
Mapped spectral response acceleration parameters	
Short period	S_s = 0.142 g
1-second period	S_1 = 0.071 g
Site class (Assumed)	D
Design spectral response acceleration parameters	
Short period	S_{ds} = 0.151 g
1-second period	S_{d1} = 0.113 g
Seismic design category	B

Alterations do not increase the demand-capacity ratio of any existing lateral load carrying structural element by more than 10%, thereby, meeting the exception of OEBC Section 805.3. Analysis and design of the existing structure for seismic force resistance is not required.

DESIGN STRESSES

Reinforcing bars (ASTM A615, Grade 60)	F_y = 60,000 psi
Welded wire reinforcement (ASTM A1064)	F_y = 70,000 psi
Masonry	f'_m = 2,000 psi
Mortar CMU wall (ASTM C270)	Type M or S
Mortar - Brick Facade (ASTM C270)	Type N

GENERAL

1. All new construction shall comply with the Contract Documents and the Building Code.
2. Typical details and general notes apply to all parts of the work except where specifically detailed or unless otherwise noted.
3. The structural drawings illustrate structural members. Refer to architectural, mechanical, and electrical drawings for non-structural items which require special provisions during the construction of the structural members.
4. Drawings are not to be scaled.
5. Refer to architectural plans for openings, non-bearing partitions, etc. Refer to mechanical and electrical plans for sleeves, openings, and hangers for pipes, ducts, and equipment.
6. No pipes or ducts shall be embedded into structural members unless so shown on the plans or approved by the Engineer.
7. The Contractor shall verify and be responsible for all dimensions and conditions which impact the work. Field verify sizes, elevations, hole locations, etc., prior to fabrication.
8. The Contractor shall carefully review the drawings to identify the scope of work required, visit the site to relate the scope of work to existing conditions and determine the extent to which those conditions and physical surroundings will impact the work.
9. The Contractor shall resolve any conflicts on the drawings or in the specifications with the Architect/Engineer before proceeding with the work.
10. Any deviation, modification, or substitution from the approved set of structural drawings shall be submitted to the Owner, Architect, and Engineer for review/approval prior to its use or inclusion on the shop drawings.
11. The Contractor shall provide means, method, techniques, sequence, and procedure of construction as required.
12. The Contractor shall protect all work, materials, and equipment from damage and shall provide proper storage facilities for materials and equipment during construction.
13. Site visits performed by the Architect/Engineer do not constitute inspections of means and methods of construction performed by the Contractor.
14. Structural observations performed by the Architect/Engineer during construction are not the continuous and special inspection services and do not waive the responsibility for the inspections required of the Building Department Inspector or the testing agency. Observations also do not guarantee the Contractor's performance and shall not be considered as supervision of construction.
15. Existing conditions as shown on these plans are for reference only. The Contractor is required to field verify all existing conditions prior to construction.

ROOF, FLOOR, OR WALL OPENINGS

1. The Contractor shall verify and coordinate the number, size, and location of all sleeves and openings required for mechanical or electrical items.
2. No structural elements are to be cut unless specifically approved by the Engineer.

CONCRETE CONSTRUCTION

1. All concrete construction shall be in accordance with the latest Building Code Requirements for Structural Concrete ACI 318 and ACI Detailing Manual, except that construction and removal of forms and reshoring shall be inspected by the Contractor's engineer.
2. Furnish bar supports where necessary during construction.
3. Provide plastic-coated (not plastic-tipped) chairs in all concrete exposed to view in completed structure.

CONCRETE MIX DESIGN

1. Concrete construction shall conform to ACI 301, Specifications for Concrete Construction.
2. Concrete supplier shall be certified according to NRMCA's "Certification of Ready Mixed Concrete Production Facilities" and comply with ASTM C94.
3. Concrete materials shall meet the following requirements:
   A. Portland cement per ASTM C150, Type I/II.
   B. Blended hydraulic cement per ASTM C595 Type 1L, portland-limestone.
   C. Fly ash per ASTM C618, Class F or C.
   D. Slag cement per ASTM C989, Grade 100 or 120.
   E. Normal-weight aggregate per ASTM C33, Class 4S.
   F. Water per ASTM C1602, potable. 1
   G. Provide chemical admixtures certified by manufacturer to be compatible with other admixtures and that will not contribute water-soluble chloride ions exceeding those permitted in hardened concrete. Do not use calcium chloride or admixtures containing calcium chloride.
      a. Air-entraining admixture per ASTM C260.
      b. Water-reducing admixture per ASTM C494, Type A.
      c. Retarding admixture per ASTM C494, Type B.
      d. Water-reducing and retarding admixture per ASTM C494, Type D.
      e. High-range, water-reducing admixture per ASTM C494, Type F.
      f. High-range, water-reducing and retarding admixture per ASTM C494, Type G.
      g. Plasticizing and retarding admixture per ASTM C1017, Type II.
      h. Accelerating admixture per ASTM C494, Type E.
      i. Accelerating water-reducing admixture per ASTM C494, Type C and E.
4. Concrete mixtures:
   A. Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, according to ACI 301.
      a. Trial batch and field experience tests shall have been performed within 24 months of the submittal date.
   B. Submit written reports of each proposed mix for each class of concrete at least 15 days prior to start of work. Do not begin concrete production until proposed mix designs have been reviewed and approved.
   C. Do not modify the approved mix designs without written approval from the SEoR.
   D. Limit percentage, by weight, of cementitious materials other than portland cement in concrete as follows:
      a. Fly ash: 25%.
      b. Combined fly ash and pozzolan: 25%.
      c. Slag cement: 50%.
      d. Combined fly ash, pozzolan, and slag cement 50%.
      e. Do not use fly ash, pozzolan, or slag cement in polished concrete.
   E. Concrete mix designs shall meet the following (See Concrete Mix Design Table):
      a. Maximum water/cementitious material ratio (w/c ratio).
      b. Air content shall be added to achieve listed amount ±1.5% at point of placement.
      c. Slump indicated is before and after plasticizers and may be modified by the concrete subcontractor, as required for placement (pumping, conveying, etc.) and workability.
      d. ACI exposure class is as defined by ACI 301.
5. Submittals shall include:
   A. Product data for all materials used.
   B. Design mixtures for each concrete mixture per ACI 301.

Concrete Mix Design Table

Location	28-day Strength	Maximum w/c Ratio	Air Content	Slump	ACI Exposure Class
Exterior Concrete	5,000 psi	0.40	6%	2"-4" / 8"	F3,S0,W2,C2

CONCRETE REINFORCEMENT AND ACCESSORIES

1. Concrete reinforcement shall be in accordance CRSI Manual of Standard Practice.
2. Reinforcement shall meet ASTM A615, Grade 60.
3. Welded Wire Reinforcement (WWR) shall meet ASTM A1064, Grade 70.
4. WWR shall be positively supported and maintained in the correct position by bar supports prior to and during the placement of concrete. The Contractor shall not lift, push, drop, etc. reinforcement after the placement of concrete.

LOOSE LINTEL SCHEDULE

1 1. Interior lintels shall be shop painted.
2. Lintels shall have minimum bearing at each end of 1" per foot of opening (6" minimum).
1 3. Lintels shall have 8" minimum solid masonry below bearing points and shall extend beyond the full bearing area.
4. The following schedules apply to all non-bearing masonry walls and to bearing walls where lintels are not indicated on the structural drawings. 1
   A. For 4", 8", 12", and 16" walls, provide one angle for each 4" of masonry wall thickness with 3 1/2" leg horizontal as follows:

Span Limits	Angle Size
0'-0" to 4'-0"	L3 x 3 1/2 x 1/4
4'-1" to 5'-6"	L4 x 3 1/2 x 5/16
5'-7" to 7'-6"	L5 x 3 1/2 x 5/16
7'-7" to 9'-6"	L6 x 3 1/2 x 3/8

   B. For 6" walls provide:

Span Limits	Lintel Size
0'-0" to 4'-0"	WT5x6
4'-1" to 5'-6"	WT5x8.5
5'-7" to 9'-6"	WT7x11 (interior) WT7x13 (exterior)

1 STRUCTURAL STEEL CONSTRUCTION

1. Structural steel detailing, fabrication, and erection shall conform to:
   A. AISC 303, Code of Standard Practice for Steel Buildings and Bridges.
   B. RCSC's Specification for Structural Joints Using High-Strength Bolts.
   C. AWS D1.1, Structural Welding Code.
2. Structural Steel shall meet the following:
   A. Steel Pipe per ASTM A53, Grade B, 35 ksi.
   B. Plates per ASTM A36, Grade 36.
   C. Anchor rods per ASTM F1554, Grade 36 with S1 supplement.
3. The full design and load-carrying capacity of the steel shall not be impaired due to fabrication, shipment, or erection procedures. Throughout the complete process, the stability of individual members and assemblies shall be maintained.
4. Welded Connections:
   A. Welding electrodes shall be E70XX.
   B. All shop and field welding shall be performed by a welder with current valid certificate in the type of weld specified.
5. Grout under base plates shall be non-metallic, non-shrink grout conforming to ASTM C1107.
6. Protective coatings:
   A. Exterior steel: Hot-dipped galvanized per ASTM A123.
   B. Galvanizing repair per SSPC Paint 20, Type 1 Level 1 or Type 2 Level 1.
7. Submittals shall include:
   A. Product data, mill test reports, and material certificates for all materials.
   B. Embedment drawings with details and locations of each embedment.
   C. Shop drawings with erection drawings, details of cuts, connections, holes, bolts, welds, coatings, and other pertinent data.

STRUCTURAL TESTING AND SPECIAL INSPECTIONS

Structural testing and special inspections are required. The Owner shall engage a qualified independent testing agency to conduct structural testing and special inspections. Special inspectors shall be employed or retained by the approved testing agency and have the recommended experience and certifications as summarized in Appendix C of the current International Code Counsel (ICC) Special Inspection Manual. The testing agency may employ or retain multiple special inspectors with differing areas of expertise as required for the project.

Structural observations performed by the Architect/Engineer during construction are not special inspection services and do not waive the responsibility of the inspections required of the Building Department Inspector or the testing agency. Observations by the Architect/Engineer do not guarantee the Contractor's performance and shall not be considered as supervision of construction.

At or before project completion, the qualified testing agency shall submit a written summary statement indicating that applicable structural testing and special inspections have been completed. The written summary statement shall clearly identify non-compliant test and inspection results. The written summary statement shall be sealed by the testing agencies supervising professional engineer and be submitted to the owner, building official, and design professionals. The required testing and inspections are indicated in the following table.

Description of Structural Special Inspection & Testing Requirements

Verification and Inspection	Frequency	Referenced Standard	BC Reference	Additional Notes
Cast-In-Place Concrete				
Verify use of required mix design: a. Verify mixer truck trip ticket conforms to approved mix design. b. Verify that total water added to mix on site does not exceed that allowed by the concrete mix design. c. Verify that concrete quality is indicative of adequate mixing time, consistency, and relevant time limits.	Periodic - Prior to each pour.	ACI 318: 26.4.3 ACI 301	1904.1 1904.2 1908.2 1908.3	
Inspect formwork for cleanliness, shape, location and dimensions of the concrete member being formed.	Periodic - Prior to each pour.	ACI 318: 26.11.1.2(b)	N/A	
Inspect concrete placement for proper application techniques, including proper consolidation, reinforcement remains at proper location, and conveyance and depositing avoid segregation and contamination.	Continuous	ACI 318: 26.5	1908.6 1908.7 1908.8	
Sample fresh concrete:	Obtain one composite sample of each class of concrete placed each day shall be taken not less than once a day, nor less than once for each 150 cy. of concrete nor less than once for each 5,000 sqft. of surface area for slabs or walls. If the total volume of concrete is such that frequency of testing required would provide less than five composite samples for a given class of concrete, tests shall be made from at least five randomly selected batches (per ASTM D3665) or from each batch if fewer than five batches are used.	ACI 318: 26.4 ASTM C 172	1908.10	A composite sample shall consist of the following: five 4" diameter cylinders, or four 6" diameter cylinders.
Obtain test cylinders of concrete.	One set of five 4" diameter cylinders or four 6" diameter cylinders for each composite sample.	ACI 318: 26.12 ASTM C 31	N/A	Cast additional cylinders at contractor's request and expense for field cured specimens to determine shoring removal, early strength for post-tensioning, etc.
Perform slump tests.	One test at point of discharge for each composite sample.	ASTM C 143	N/A	
Perform air content tests.	One test at point of discharge for each composite sample.	ASTM C 231, pressure method for normalweight concrete; ASTM C 173, volumetric method for lightweight concrete	N/A	
Determine the temperature of fresh concrete.	One test for each composite sample, and test hourly and when air temperature is below 40°F or when above 80°F.	ASTM C 1064	N/A	
Review and inspect cold weather concrete procedures and placement.	Periodic - Prior to each pour.	ACI 306.1 ACI 318 26.5.4		
Review and inspect hot weather concrete procedures and placement.	Periodic - Prior to each pour.	ACI 305.1 ACI 318 26.5.5		
Inspect for maintenance of specified curing temperature and techniques.	Periodic - After each pour.	ACI 318: 26.5.3-26.5.5	1908.9	
Laboratory test concrete cylinders for compressive strength.	One specimen tested at 7 days, two specimens tested at 28 days, and one specimen retained in reserve for later testing if required.	ACI 318: 26.12 ASTM C 39	N/A	Three specimens shall be tested at 28 days if using 4" diameter cylinders. Test additional cylinders at contractor's request and expense.
Soils: Foundation Bearing & Engineered Fill Placement				
Verify excavations are extended to proper depth and have reached proper material.	Periodic	OBC Table 1705.6	N/A	
Perform classification and testing of compacted fill materials.	Periodic	OBC Table 1705.6	N/A	
Verify use of proper materials and procedures, densities and lift thicknesses during placement and compaction of compacted fill.	Continuous	OBC Table 1705.6	N/A	
Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.	Periodic	OBC Table 1705.6	N/A	

200 E Campus View Blvd., Suite 200, Columbus, OH 43235
614-825-5980
barberhoffman.com
BARBER & HOFFMAN, INC. Consulting Engineers
Cleveland, OH
Columbus, OH
Cranberry Twp., PA

DESIGNED BY: BARBER & HOFFMAN INC.
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

No.	DATE	DESCRIPTION	APP'D.	DATE:
		SUBMITTAL/REVISION RECORD		
1	08/03/2026	CONSTRUCTION DOCUMENTS		
	06-08-2026	DESIGN REVISIONS		

GENERAL NOTES & SPECIAL INSPECTIONS

MCES 130075-64

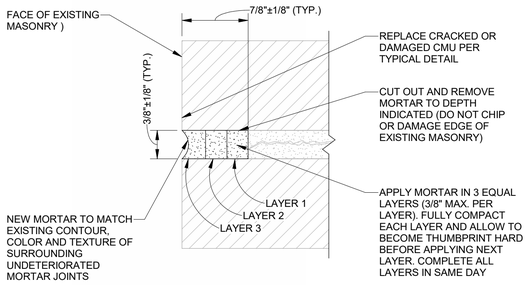
MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2559 SANDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO.
S-001

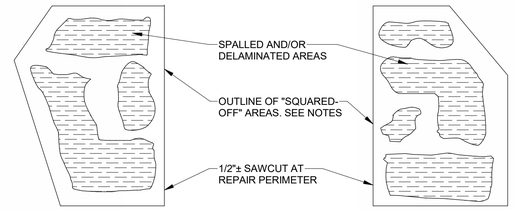
PROJ NO.: 25013
DATE: 06/08/2026

1/16" = 1'-0" 0 4" 8" 16'
1/8" = 1'-0" 0 2" 4" 8'
3/16" = 1'-0" 0 2" 4" 8"
1/4" = 1'-0" 0 1" 2" 4"
3/8" = 1'-0" 0 1" 2" 4"
1/2" = 1'-0" 0 6" 1" 2"
3/4" = 1'-0" 0 3" 6" 1" 2"
1" = 1'-0" 0 3" 6" 1" 2"
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



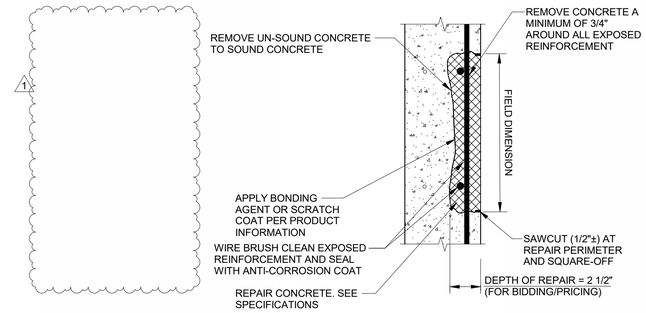
TYPICAL PLAN OR SECTION DETAIL TUCK POINTING OF MASONRY JOINTS

BASE BID QUANTITY:
200 LINEAL FT.
(UNIT PRICE ITEM NO. 4) 1



NOTES:
1. SOUND REPAIR AREAS BY TAPPING WITH A HAMMER.
2. ALL AREAS WHICH SOUND HOLLOW OR ARE SPALLED SHALL BE MARKED AND "SQUARED-OFF" IN A PATTERN THAT CAUSES THE LEAST AMOUNT OF CUTOUT AREA, BUT INCLUDES ALL OF THE DETERIORATED CONCRETE.
3. THE ENGINEER WILL CONFIRM OR MODIFY THE AREAS FOR REMOVAL PRIOR TO ANY CONCRETE REMOVAL.
4. "SQUARED-OFF" LINES SHALL BE GENERALLY 4" OUTSIDE OF THE HOLLOW SOUNDING CONCRETE.
5. AFTER CHIPPING, INSPECT EXPOSED REINFORCING STEEL AND MODIFY AREAS TO INCLUDE ALL RUSTED REINFORCING STEEL AND ANY HOLLOW CONCRETE.

PROCEDURES TO LOCATE REPAIR AREAS AT CONCRETE WALLS

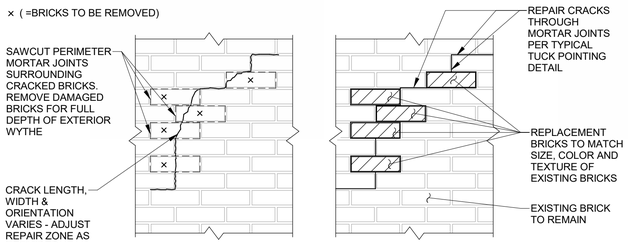


WALL

NOTES:
1. ADD NEW EPOXY COATED REINFORCING AS DIRECTED BY THE ENGINEER.
2. SEE SPECIFICATIONS FOR APPROVED MATERIALS AND ADDITIONAL REPAIR PROCEDURES.
3. SEE PRODUCT MANUFACTURER'S TECHNICAL DATA SHEETS FOR MIXING, SURFACE PREPARATION, APPLICATION PROCEDURES, AND CURING.

CONCRETE WALL SURFACE REPAIR

× (=BRICKS TO BE REMOVED)

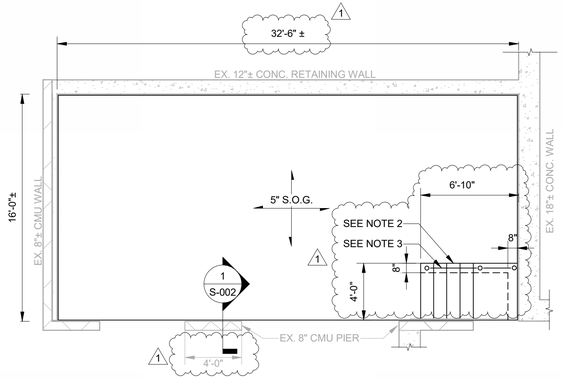


REPRESENTATIVE ELEVATION (EXISTING CONDITIONS)

REPRESENTATIVE ELEVATION (REPAIRED CONDITIONS)

CRACKED BRICK REPLACEMENT DETAIL

BASE BID QUANTITY:
50 BRICKS
(UNIT PRICE ITEM NO. 5) 1

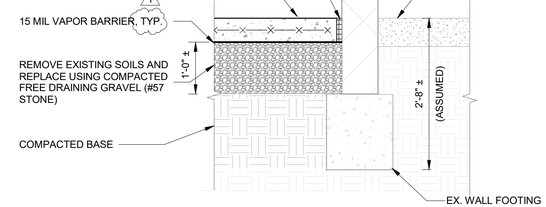


EXTERIOR GARAGE PLAN

3/16" = 1'-0"

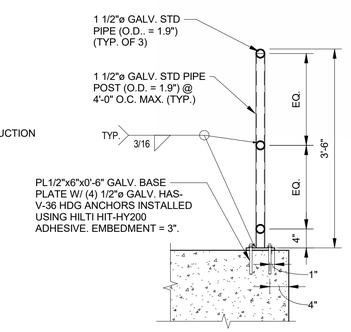
NOTES

1. 5" S.O.G. DENOTES 5" THICK, AIR-ENTRAINED, NORMAL-WEIGHT CONCRETE SLAB W/ (1) LAYER 6x6xW2.9xW2.9 WWR CENTERED IN SLAB. EX. CONCRETE , SLABS, PIT AND STAIRS IN EXTERIOR GARAGE TO BE DEMOLISHED. REFER TO ARCH. DWGS. FOR ADDITIONAL INFO.
2. NEW 6" CONCRETE STAIR SLAB SUPPORTED ON EPS INSULATION. PROVIDE 8" WIDE KNEE WALL ALONG 2 SIDES. SEE A-421 FOR ADDITIONAL INFO.
3. NEW GUARDRAIL ASSEMBLY FOR EXTERIOR GARAGE STAIRS AND LOADING DOCK. SEE TYPICAL RAILING DETAIL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFO.

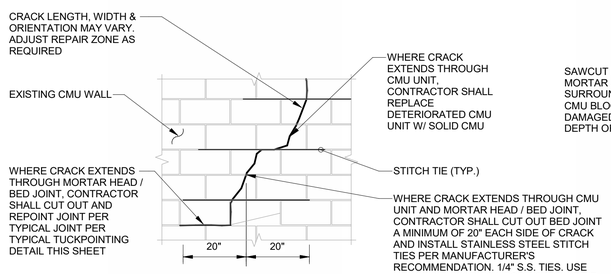


SECTION 1

3/4" = 1'-0"

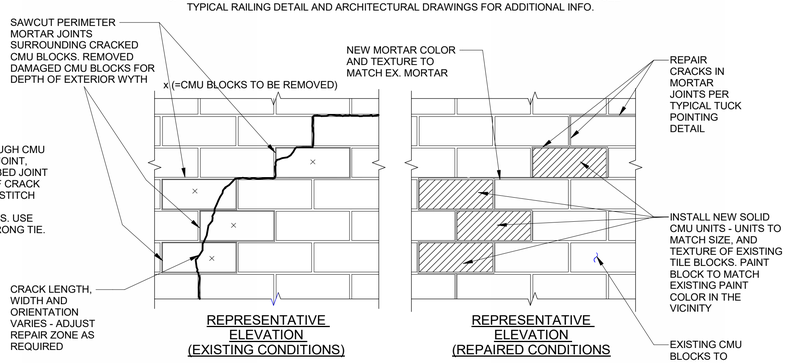


TYPICAL RAILING DETAIL



TYPICAL STITCH TIE REPAIR DETAIL

BASE BID QUANTITY:
25 STITCH TIES
(UNIT PRICE ITEM NO. 6) 1

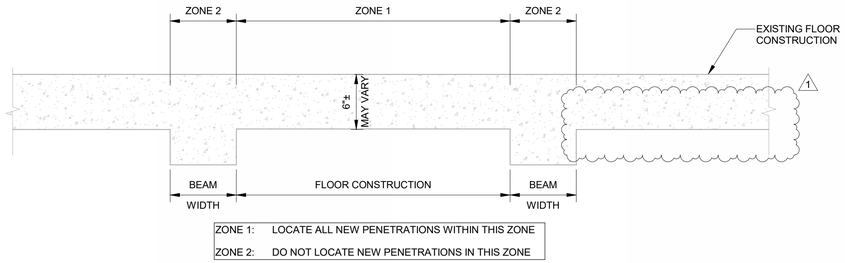


REPRESENTATIVE ELEVATION (EXISTING CONDITIONS)

REPRESENTATIVE ELEVATION (REPAIRED CONDITIONS

CRACKED/BROKEN CMU BLOCK: REPLACEMENT DETAIL

BASE BID QUANTITY:
25 CMU BLOCKS
(UNIT PRICE ITEM NO. 3) 1



ZONE 1:	LOCATE ALL NEW PENETRATIONS WITHIN THIS ZONE
ZONE 2:	DO NOT LOCATE NEW PENETRATIONS IN THIS ZONE

FLOOR STRUCTURE PENETRATIONS GUIDELINES

NOT TO SCALE

(NEW M/E/P PENETRATIONS)

BELOW ARE GUIDELINES FOR PLACEMENT OF NEW PENETRATIONS IN EXISTING FLOOR CONSTRUCTION.

1. CONTRACTOR TO FIELD VERIFY AND LOCATE EXISTING BEAMS THAT SUPPORT FLOOR SLAB. LAYOUT OF EXISTING BEAMS TO BE CLEARLY MARKED ON TOP OF FLOOR IN IMMEDIATE VICINITY OF PROPOSED NEW PENETRATION LOCATION PRIOR TO CORE DRILLING.
2. CONTRACTOR TO USE A REBAR DETECTING DEVICE (GPR OR SIMILAR) TO LOCATE THE REINFORCING BARS IN THE EXISTING SLAB. TOP AND BOTTOM REINFORCING IN THE EXISTING SLAB SHALL BE LOCATED AND CLEARLY MARKED ON THE TOP OF THE SLAB PRIOR TO CORE DRILLING.
3. REINFORCING BARS SHALL NOT BE CUT OR DAMAGED. NOTIFY ENGINEER IF BARS ARE CUT DURING CORE DRILLING OPERATION.
4. ALL PENETRATIONS SHALL BE CORE DRILLED. WHERE PENETRATIONS NEED TO BE SAW CUT PROCEED CAREFULLY WITH SAW CUTTING. DO NOT OVERCUT AT CORNERS.
5. CONTRACTOR SHALL REVIEW THE CONDITION OF THE EXISTING CONCRETE CONSTRUCTION. DO NOT PROCEED WITH CORE DRILLING IF CRACKS ARE PRESENT IN THE SLAB SURFACE (TOP AND / OR BOTTOM). IN SUCH INSTANCE, PERFORM RESTORATION / REPAIRS ON THE SLAB FIRST, PRIOR TO CORE DRILLING FOR NEW PENETRATIONS.
6. CUTTING AND / OR DAMAGING EXISTING BEAMS DURING CORE DRILLING IS NOT ACCEPTABLE.

200 E Campus View Blvd., Suite 230 Columbus, OH 43235 614-825-5980 barberhoffman.com
BARBER & HOFFMAN, INC. Consulting Engineers, Cleveland, OH Columbus, OH Cranberry Twp., PA

DESIGNED BY: BARBER & HOFFMAN INC.
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

No.	DATE	DESCRIPTION	APP'D.	DATE:
1	06-08-2026	CONSTRUCTION DOCUMENTS		
	08/03/2026	DESIGN REVISIONS		

SUBMITTAL/REVISION RECORD

GARAGE S.O.G. REPLACEMENT PLAN & TYP. DETAILS

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE MORAINE, OHIO 45439

SHEET NO.
S-002

PROJ NO.: 25013
DATE: 06/08/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



P1 PHOTO 1
(SEE A-103 FOR PHOTO LOCATION IN PLAN)



P5 PHOTO 5
(SEE A-102 FOR PHOTO LOCATION IN PLAN)



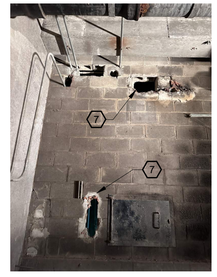
P9 PHOTO 9
(SEE A-103 FOR PHOTO LOCATION IN PLAN)



P13 PHOTO 13
(SEE A-103 FOR PHOTO LOCATION IN PLAN)



P17 PHOTO 17
(SEE A-101 FOR PHOTO LOCATION IN PLAN)



P21 PHOTO 21
(SEE A-104 FOR PHOTO LOCATION IN PLAN)



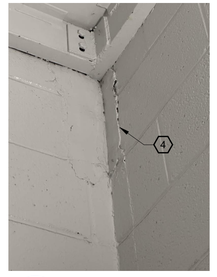
P2 PHOTO 2
(SEE A-103 FOR PHOTO LOCATION IN PLAN)



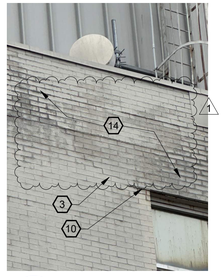
P6 PHOTO 6
(SEE A-102 FOR PHOTO LOCATION IN PLAN)



P10 PHOTO 10
(SEE A-103 FOR PHOTO LOCATION IN PLAN)



P14 PHOTO 14
(WITHIN STAIRS 03 - SEE A-103 FOR PHOTO LOCATION IN PLAN)



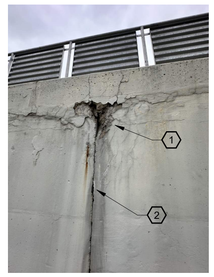
P18 PHOTO 18
(SEE A-101 FOR PHOTO LOCATION IN PLAN)



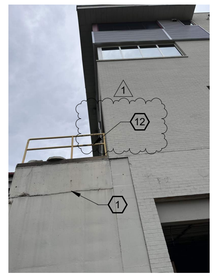
P3 PHOTO 3
(SEE A-102 FOR PHOTO LOCATION IN PLAN)



P7 PHOTO 7
(SEE A-102 FOR PHOTO LOCATION IN PLAN)



P11 PHOTO 11
(SEE A-103 FOR PHOTO LOCATION IN PLAN)



P15 PHOTO 15
(SEE A-102 FOR PHOTO LOCATION IN PLAN)



P19 PHOTO 19
(SEE A-104 FOR PHOTO LOCATION IN PLAN)



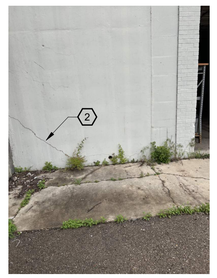
P4 PHOTO 4
(SEE A-103 FOR PHOTO LOCATION IN PLAN)



P8 PHOTO 8
(SEE A-102 FOR PHOTO LOCATION IN PLAN)



P12 PHOTO 12
(SEE A-103 FOR PHOTO LOCATION IN PLAN)



P16 PHOTO 16
(SEE A-101 FOR PHOTO LOCATION IN PLAN)



P20 PHOTO 20
(SEE A-104 FOR PHOTO LOCATION IN PLAN)

CODED NOTES:

1. REPAIR DETERIORATED/UNSOUND CONCRETE BACK TO SOUND SUBSTRATE. ANY STEEL REINFORCEMENT SHALL BE FULLY EXPOSED WITH CONCRETE REMOVED 3/4" CLEAR AROUND ALL RUSTED REINFORCEMENT. RUSTED REINFORCEMENT SHALL BE WIRE BRUSH CLEANED AND PROTECTED WITH AN ANTI-CORROSION COAT. A BONDING AGENT OR SCRATCH COAT SHALL BE APPLIED TO THE SOUND SUBSTRATE AND THE SPALLED AREA SHALL BE PATCHED WITH PRE APPROVED EXTERIOR GRADE CONCRETE REPAIR MORTAR. (UNIT PRICE NO. 1)
2. CRACKED CONCRETE SHALL BE CLEANED, ROUTED, AND INJECTED WITH HIGH STRENGTH STRUCTURAL EPOXY. (UNIT PRICE NO. 2)
3. DETERIORATED MORTAR JOINTS EXPERIENCING STEPPED/VERTICAL CRACKING SHALL BE TUCKPOINTED. SEE TYPICAL DETAILS PLAN OR SECTION DETAIL TUCK-POINTING OF MASONRY JOINTS ON S-002 FOR ADDITIONAL INFO. (UNIT PRICE NO. 4)
4. THE PARGED AREA (COSMETIC PATCH) WITHIN THE STAIRWELL SHOULD BE REMOVED AND REPLACED WITH SOLID CMU.
5. OXIDIZED / RUSTED STEEL SHALL BE WIRE BRUSHED CLEANED AND PROTECTED WITH CORROSION INHIBITING PRIMER.
6. THE EXPOSED SURFACE OF THE CONCRETE RETAINING WALL SHALL BE CLEANED AND PROTECTED WITH A 100% SOLID, EXTERIOR GRADE, SILANE SEALER TO PROVIDE PROTECTION AGAINST WATER INFILTRATION.
7. IN AREAS WHERE FACE SHELLS OF CMU ARE BROKEN OR CMU UNITS ARE DAMAGED / MISSING NEW SOLID CMU UNITS SHALL BE INSTALLED TO RESTORE THE STRUCTURAL INTEGRITY OF THE WALL.
8. THE FACE BRICK AT THE CORNER OF THE LOADING BAY SHOULD BE CAREFULLY REMOVED AND REPLACED. TEMPORARY SHORING WILL BE REQUIRED TO ALLOW FOR SAFE RE-BUILDING OF THE BRICK.
9. ON THE SOUTH FACADE, NEW WEEP VENTS SHOULD BE ADDED ALONG THE SOFFIT OF SPANDREL BEAM AT 24" O.C.
10. ANY CRACKED BRICKS SHOULD BE REPLACED WITH NEW BRICK. PROVIDE HELICAL STITCH TIES, PER TYPICAL DETAIL ON S-002.
11. EX. CONCRETE STAIRS TO BE DEMOLISHED AND RE-BUILT.
12. EX. RAILING TO BE REMOVED AND REPLACED. SEE TYPICAL RAILING DETAIL ON S-002 AND ARCH. DWGS. FOR ADDITIONAL INFO.
13. EX. CONCRETE PADS, PIT WALLS AND S.O.G TO BE REMOVED AND REPLACED WITH A NEW S.O.G. SEE S-002 FOR ADDITIONAL INFO.
14. ADD 1/4" S.S. HELICAL WALL ANCHORS/TIES BY SIMPSON AT 2' O.C. VERTICAL AND HORZ. SPACING IN THIS AREA TO SECURE FACE BRICK TO BACK UP CMU WALL. TIES TO BE LOCATED IN MORTAR JOINTS WITH AN EMBEDMENT OF 6" INTO BACKUP CMU (APPROX. 10" LONG ANCHORS: TOTAL 30 ANCHORS).

200 E Campus View Blvd., Suite 230
Columbus, OH 43235
614-825-5580
barberhoffman.com
BARBER & HOFFMAN, INC.
Consulting Engineers
Cleveland, OH
Columbus, OH
Cranberry Twp., PA

DESIGNED BY: BARBER & HOFFMAN INC.
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE:
	06-06-2026	CONSTRUCTION DOCUMENTS		
1	08/03/2026	DESIGN REVISIONS		

REPRESENTATIVE PHOTOS

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2590 SANDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO.
S-301

PROJ NO.: 25013
DATE: 06/08/2026

1/16" = 1'-0" 0 4' 8' 16'

1/8" = 1'-0" 0 2' 4' 8'

3/16" = 1'-0" 0 2' 4' 8'

1/4" = 1'-0" 0 1' 2' 4'

3/8" = 1'-0" 0 1' 2' 4'

1/2" = 1'-0" 0 6" 1' 2'

3/4" = 1'-0" 0 3" 6" 1' 2'

1" = 1'-0" 0 3" 6" 1' 2'

1 1/2" = 1'-0" 0 3" 6" 1'

3" = 1'-0" 0 1" 2" 3" 6" 1'

6" = 1'-0" 0 1" 2" 3" 6"

PLUMBING FIXTURE AND EQUIPMENT SCHEDULE

MARK	FIXTURE	WASTE	VENT	HW	CW	MANUFACTURER, MODEL NUMBER, AND DESCRIPTION
WC-1	FLOOR MOUNTED (ADA) WATER CLOSET FLUSH VALVE (1.28 GPF)	3"	2"	-	1"	MODEL: Z.WC4.AM, ZURN ONE MODEL MANUAL FLOOR MOUNTED ADA HEIGHT TOILET SYSTEM WITH 1.28 GPF ECOVANTAGE FLUSH VALVE. FIXTURE: Z5665-BWL1, VITREOUS CHINA, ELONGATED BOWL, 1-1/2 INCH INLET SPUD, SIPHON JET ACTION, LOW WATER CONSUMPTION. SEAT: Z5955SS-EL, ELONGATED, OPEN FRONT WHITE TOILET SEAT WITH STAINLESS STEEL CHECK HINGES. FLUSH VALVE: Z-6000AV-HET, EXPOSED CHROME PLATED, 1.28 GALLONS PER FLUSH. COMPLETE WITH Z5972-COMB, CLOSET BOLT/ WAX RING KIT
L-1	LAVATORY WALL MOUNTED	1-1/4"	1-1/2"	1/2"	1/2"	MODEL: Z.L2.M, ZURN ONE MODEL 20" x 18" WALL HUNG LAVATORY. FIXTURE: Z5344, 20" x 18" VITREOUS CHINA WALL HUNG LAVATORY WITH 4" CENTER FAUCET HOLES WITH HANGER PLATE AND HOLES FOR COMNCEALED ARM CARRIER SYSTEMS. FAUCET: Z81000-XL-3M, POLISHED CHROME PLATED CAST BRASS 4" CENTERSET SINGLE CONTROL LAVATORY FAUCET WITH 0.5 GPM VANDEL-RESISTANT PRESSURE COMPENSATION AERATOR. GRID DRAIN: Z8743-PC, CHROME PLATED CAST BRASS SOLID TOP, OPEN GRID, P.O. PLUG, 17 GAUGE TAILPIECE. P-TRAP W/ WALL BEND: Z8700-8B-PC, CHROME PLATED CAST BRASS 1-1/4" P-TRAP WITH CLEANOUT. LAVATORY SUPPLY STOPS: Z8804-XL-LR-LK-PC, CHROME PLATED SOILD BRASS ANGLE STOP WITH 1/2" NOM COMPRESSION INLET, 3/8" OD COMPRESSION OUTLET, LOOSE KEY, CHROME PLATED COPPER RISER TUBES AND CHROME PLATED INLET FLANGES.
MB-1	MOP BASIN	3"	1-1/2"	1/2"	1/2"	FIXTURE: MUSTEE MODEL 63M, 24 X 24 X 10 INCH HIGH MOLDED STONE, FLOOR MOUNTED, STAINLESS STEEL STRAINER OR APPROVED EQUAL FAUCET:MUSTEE 63.600A FAUCET, ROUGH CHROME FINISH, THREADED SPOUT WITH BUCKET HOOK, VACUUM BREAKER, HOSE OUTLET SPOUT END, WALL BRACE, CAST BRASS INDEXED LEVER HANDLES, AND STOPS IN SHANKS OR EQUAL. ACCESSORIES: 48 INCH LONG HEAVY DUTY, 5/8 INCH DIAMETER HOSE AND HOSE CLIP, STAINLESS STEEL HOSE BRACKET, AND STAINLESS STEEL MOP HANGER WITH 3 GRIPS.
UT-1	UTILITY TUB	2"	1-1/2"	1/2"	1/2"	FIXTURE: FIAT MODEL SF1F FLOOR MOUNTED LAUNDRY TUB, SUPPORTED BY STEEL PAINTED ANGLE LEGS THAT SLIP INTO MOLDED SOCKETS FOR RIGID FIT, LEGS ARE SUPPLIED WITH LEVELING DEVICES. HEAVY DUTY POLYPROPYLENE MATERIAL OR APPROVED EQUAL. FAUCET: FIAT MODEL A1 - 4" FAUCET WITH CP BLADE HANDLES, 4" (102MM) CENTERSET, CHROME PLATED, METAL CONSTRUCTED FAUCET WITH 4" (102MM) BLADE HANDLES, 6-3/4" (171MM) 360° SWING SPOUT, AERATOR AND HOSE ADAPTOR OR APPROVED EQUAL. SUPPLIES: FURNISH CHROME PLATED RIGID OR FLEXIBLE SUPPLIES, AND REDUCERS.
POINT OF USE THERMOSTATIC MIXING VALVE		-	-	3/8"	3/8"	WATER TEMPERATURE REGULATING VALVE, LEAD FREE BRONZE BODY, THREADED CONNECTIONS. LOW TEMPERATURE, DUAL ACTION, INTERCHANGEABLE THERMOSTAT, INTEGRAL FILTER WASHERS AND CHECK VALVES. ASSE 1070 LISTED. ADJUSTABLE FROM 80 DEGREES F TO 120 DEGREES F WITH LOCKING FEATURE. SET OUTLET TEMPERATURE AT 110 DEGREES F. MAXIMUM PRESSURE 150 PSI. WATTS SERIES LFUSG-B OR EQUAL.
FD-1	FLOOR DRAIN	3" OR 4"	-	-	-	ZURN Z415-SZ1, BODY ASSEMBLY W/ TYPE 'S' STRAINER AND EZ1 TECHNOLOGY, SQUARE STRAINER, CONTRACTOR TO DETERMINE SIZE IN FIELD, ADJUSTABLE FLOOR DRAIN, PVC OR ABS SOLVENT WELD BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND TOP ASSEMBLY OR EQUAL.
TP-1	TRAP SEALER	-	-	-	-	SURE SEAL MODEL SS3009V & SS4009V INLINE FLOOR DRAIN TRAP SEAL, COMMERCIAL GRADE UV AND OZONE RESISTANT ABS PLASTIC HOUSING WITH PROPRIETARY EPDM RUBBER DIAPHRAGM AND SOFT RUBBER SEALING GASKET. FLOOR RATING ASSE - 1072 AF-GW.

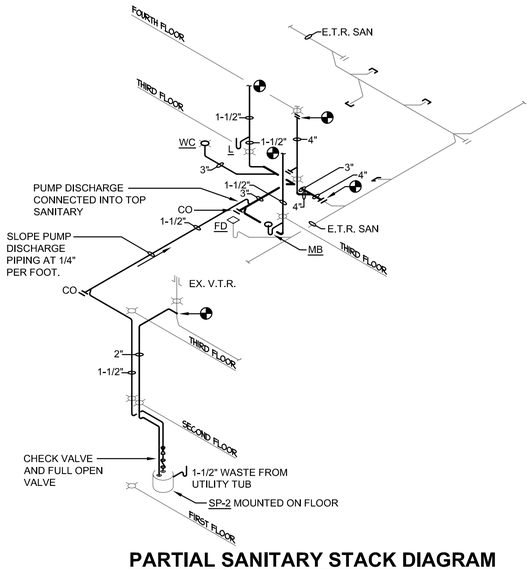
PUMP SCHEDULE

MARK	MANUF.	MODEL	TYPE	SERVICE	GPM	TOTAL HEAD (FT)	SIZE SUCTION	SIZE DISCHARGE	RPM	HP	VOLTAGE	LOCATION
RP-1	BELL & GOSSET	NBF-10S/LW	CIRCULATOR	HOT WATER SYSTEM	12	7	3/4"	3/4"	2800	41 W	115V-1PH	———
SP-1	WEIL	2442	SUBMERSIBLE	ELEVATOR	50	40	2"	2"	3450	1	115V-1PH	ELEVATOR PIT
SP-2	LITTLE GIANT	WRS-9	WASTEWATER REMOVAL	UTILITY TUB	5	30	1-1/2"	1-1/2"	1750	4/10	115V-1PH	JANITOR 103

NOTE: SP-1 SUMP PUMP PROVIDED WITH OIL SMART TECHNOLOGY.

NATURAL GAS LOADS

MARK/ EQUIPMENT	GAS INPUT	GAS TOTAL	
(1) FURANCE	88 CFH	88 CFH	HEATING
TOTAL		88 CFH	



PARTIAL SANITARY STACK DIAGRAM
NO SCALE

GENERAL NOTES (PLUMBING)

A. SCHEDULE UTILITY SERVICE SHUTDOWNS REQUIRED FOR NEW CONSTRUCTION WITH OWNER AND GENERAL TRADES PRIOR TO SHUTTING DOWN SYSTEMS. GIVE ONE WEEK ADVANCE NOTICE.

B. CUT FLOOR, WALL, AND CEILING CONSTRUCTION FOR PENETRATIONS TO ACCOMMODATE NEW WORK. COORDINATE WITH GENERAL TRADES. PATCH CONSTRUCTION TO MATCH, OR TO SATISFACTION OF ARCHITECT AND OWNER.

C. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE LOCAL BUILDING CODE AND AUTHORITY HAVING JURISDICTION.

D. PLUMBING WORK SHALL BE COMPLETED BY AN INDIVIDUAL OR BUSINESS THAT IS LICENSED BY THE STATE CONSTRUCTION INDUSTRY LICENSING BOARD.

E. ALL FIXTURES SHALL BE PROVIDED WITH SHUT-OFF BALL VALVES ON SUPPLY LINES.

F. ALL PUBLIC HAND WASHING SINKS SHALL BE SUPPLIED WITH TEMPERED WATER WITH AN APPROVED WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070.

G. NO PIPING OR EQUIPMENT SHALL BE INSTALLED ABOVE ELECTRICAL EQUIPMENT.

H. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.

I. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF SEWERS TO WHICH NEW WASTE LINES ARE TO BE CONNECTED BEFORE STARTING WORK OR INSTALLATION OF NEW WASTE SYSTEM.

J. ALL PLUMBING WORK IS TO RUN IN A NEAT AND PROFESSIONAL MANNER, WITH THE AESTHETICS OF THE FACILITY OF PARAMOUNT IMPORTANCE. ALL ROUGH-IN WORK TO BE HIDDEN WITHIN WALLS AND ABOVE CEILING UNLESS OTHERWISE NOTED.

K. ALL MATERIALS USED SHALL BE NEW AND UNDAMAGED.

GENERAL NOTES (FIRE PROTECTION)

A. ALL SPRINKLER PIPING IS TO BE INSTALLED AS HIGH AS POSSIBLE IN EXPOSED STRUCTURAL AREAS OR ABOVE THE CEILING AND NEAR THE CEILING IN EXPOSED STRUCTURAL AREAS UNLESS OTHERWISE NOTED.

B. ALL FIRE PROTECTION SYSTEMS SHALL CONFORM TO LOCAL, STATE, NFPA AND OWNER'S INSURANCE COMPANY'S RULES, REGULATIONS AND STANDARDS.

C. ALL SPRINKLER HEAD LOCATIONS MUST BE COORDINATED WITH ALL EQUIPMENT OF OTHER TRADES AND MUST BE CENTERED IN LAY-IN CEILING TILE. REFER TO THE ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION OF ALL CEILING TYPES, HEIGHTS AND OTHER ARCHITECTURAL FEATURES.

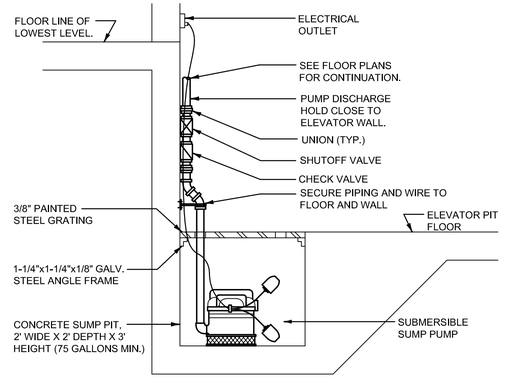
D. SPRINKLER HEADS (UNLESS OTHERWISE NOTED) SHALL BE AS FOLLOWS: LAY-IN/GYPSUM BOARD CEILING AREAS - RECESSED PENDENT TYPE. EXPOSED STRUCTURAL AREAS - PENDENT/UPRIGHT TYPE.

E. ALL FIRE MAINS/SPRINKLER PIPING SHALL BE SIZED ACCORDING TO CONTRACTORS HYDRAULIC CALCULATIONS.

F. CONTRACTOR SHALL CONDUCT ALL NECESSARY FLOW TESTS, LAY OUT FIRE PROTECTION SYSTEMS, OBTAIN APPROVALS FROM THE AUTHORITY HAVING JURISDICTION AND THE OWNER'S INSURANCE COMPANY PRIOR TO BEGINNING ANY PIPE FABRICATION OR INSTALLATION WORK.

G. NEW ADDITION AND RENOVATED AREAS TO BE FULLY SUPPRESSED PER NFPA 13.

H. SEE SPECIFICATION SECTION 21 05 00 FOR ADDITIONAL INFORMATION.



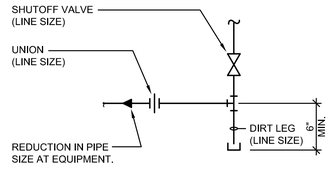
ELEVATOR PIT SUMP PUMP DETAIL
NO SCALE

PLUMBING SYMBOLS

- CLEANOUT
- CLEANOUT (HORIZONTAL)
- FLOW DIRECTION
- PIPE ELBOW, DOWN
- PIPE ELBOW, UP
- PIPE TEE, DOWN
- SHUTOFF VALVE
- UNION
- SAN — SANITARY WASTE (ABOVE FLOOR)
- V — VENT PIPING
- CW — DOMESTIC COLD WATER
- HW — DOMESTIC HOT WATER
- HWR — HOT WATER RETURN
- G — NATURAL GAS
- PD — PUMP DISCHARGE
- CONNECT TO EXISTING

PLUMBING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
ARCH	ARCHITECT
BFF	BELOW FINISHED FLOOR
CFH	CUBIC FEET PER HOUR
CW	DOMESTIC COLD WATER
deg. F	DEGREES FAHRENHEIT
DIA	DIAMETER
E.C.	ELECTRICAL CONTRACTOR
EWC	ELECTRIC WATER COOLER
FD	FLOOR DRAIN
G.C.	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HW	DOMESTIC HOT WATER
In. w.c.	INCHES WATER COLUMN
KW	KILOWATT
L	LAVATORY
LT	LAUNDRY TUB
M.C.	MECHANICAL CONTRACTOR
MIN	MINIMUM
MV	MIXING VALVE
NPSH	NET POSITIVE SUCTION HEAD
OPC	OHIO PLUMBING CODE
P	PUMP
P.C.	PLUMBING CONTRACTOR
PH	PHASE
PVC	POLYVINYL CHLORIDE PLASTIC
QTY	QUANTITY
S	SINK
TYP.	TYPICAL
V	VOLTS
VTR	VENT THROUGH ROOF
WC	WATER CLOSET



GAS-FIRED EQUIPMENT CONNECTION DETAIL
NO SCALE

STATE OF OHIO — JOHN DAVID MILENIUS — E-56036 — REGISTERED PROFESSIONAL ENGINEER — 6-8-26

tec inc.
mechanical engineering & commissioning
4955 Bridgetown Ave. STE 240
Dublin, OH 43017
t 614.267.5617
f 614.267.5617
www.tec-balancing.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC.

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DESCRIPTION	DATE
	100% CD	06/08/26

APP'VD: DM

DATE: 06/08/26

PLUMBING GENERAL NOTES, SYMBOLS, ABBREVIATIONS, SCHEDULES, AND DETAILS

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

NONE

SHEET NO.

P-001

PROJ NO.: 25013

DATE: 06/08/2026

1/16" = 1'-0" 0 4' 8' 16'

1/8" = 1'-0" 0 2' 4' 8'

3/16" = 1'-0" 0 2' 4' 8'

1/4" = 1'-0" 0 1' 2' 4'

3/8" = 1'-0" 0 1' 2' 4'

1/2" = 1'-0" 0 6" 1' 2'

3/4" = 1'-0" 0 3" 6" 1' 2'

1" = 1'-0" 0 3" 6" 1' 2'

1 1/2" = 1'-0" 0 3" 6" 1'

3" = 1'-0" 0 1" 2" 3" 6" 1'

6" = 1'-0" 0 1" 2" 3" 6"

SECTION 21 05 00 – COMMON WORK RESULTS FOR FIRE SUPPRESSION

PART 1 GENERAL

1.1 SYSTEM DESCRIPTION

A. SYSTEM TO PROVIDE COVERAGE FOR AREAS IN SCOPE OF WORK FOR THE PROJECT.

B. EXISTING AREAS OF WET SPRINKLER SYSTEM OF THE BUILDING SHALL BE PROTECTED WITH NEW PIPING AND SPRINKLER HEADS AND CONTINUE AS A WET PIPE SPRINKLER SYSTEM.

C. EXISTING AREAS OF DRY SPRINKLER SYSTEM OF THE BUILDING SHALL BE PROTECTED WITH NEW PIPING AND SPRINKLER HEADS AND CONTINUE AS A DRY SPRINKLER SYSTEM.

D. DESIGN REQUIREMENTS - SPRINKLER SYSTEM: LIGHT HAZARD, ORDINARY HAZARD, GROUP 1, ORDINARY HAZARD, GROUP 2 REQUIREMENTS.
1. LIGHT HAZARD: CORRIDORS, CONFERENCE ROOMS, OFFICES, LOCKER ROOMS, TOILET ROOMS.
2. ORDINARY HAZARD GROUP 1: MECHANICAL ROOMS, ELECTRICAL ROOMS, ELEVATOR EQUIPMENT ROOMS.
3. ORDINARY HAZARD GROUP 2: STORAGE LESS THAN 12', .

E. DETERMINE VOLUME AND PRESSURE OF INCOMING WATER SUPPLY BY PERFORMING A FLOW TEST PRIOR TO BIDDING.

1.2 SUBMITTALS

A. SUBMIT SHOP DRAWINGS, PRODUCT DATA, AND HYDRAULIC CALCULATIONS TO AUTHORITY HAVING JURISDICTION FOR APPROVAL. SUBMIT PROOF OF APPROVAL TO ARCHITECT.

B. SHOP DRAWINGS: REQUIRED. INDICATE HYDRAULIC CALCULATIONS, DETAILED PIPE LAYOUT, HANGERS AND SUPPORTS, SPRINKLERS, COMPONENTS AND ACCESSORIES. INDICATE SYSTEM CONTROLS REQUIRED.

C. PRODUCT DATA: REQUIRED. PROVIDE DATA ON SPRINKLERS, VALVES, AND SPECIALTIES, INCLUDING MANUFACTURER'S CATALOG INFORMATION. SUBMIT PERFORMANCE RATINGS, ROUGH-IN DETAILS, WEIGHTS, SUPPORT REQUIREMENTS, AND PIPING CONNECTIONS REQUIRED.

D. PROJECT RECORD DOCUMENTS:REQUIRED NOT REQUIRED.

1.3 QUALITY ASSURANCE

A. REGULATORY REQUIREMENTS
1. SPRINKLER SYSTEMS: CONFORM TO NFPA 13.
2. EQUIPMENT AND COMPONENTS: UL, FM LABELED.

PART 2 PRODUCTS

2.1 PIPE AND TUBE

A. STEEL: SCHEDULE 40 BLACK STEEL, CAST IRON, OR MALLEABLE IRON FITTINGS, OR MECHANICAL GROOVED COUPLINGS.

B. COPPER: TYPE M OR L HARD DRAWN, WITH SOLDER OR BRAZED JOINTS.

C. CAST IRON: AWWA C151.

D. FLEXIBLE SPRINKLER DROPS THAT ARE LISTED ARE ACCEPTABLE FOR PIPING FROM BRANCH TO SPRINKLER HEAD.

2.2 SPRINKLERS

A. SUSPENDED CEILING TYPE: CONCEALEDTYPE WITH [BRASS] [CHROME PLATED] [ENAMELLED] FINISH, AND MATCHING ESCUTCHEON.

B. EXPOSED AREA TYPE: STANDARD UPRIGHT TYPE WITH [BRASS] [CHROME PLATED] FINISH.

C. SIDEWALL TYPE: STANDARD] [SEMI-RECESSED] [RECESSED] HORIZONTAL SIDEWALL TYPE [BRASS] [CHROME PLATED] [ENAMELLED] FINISH WITH MATCHING ESCUTCHEON.

2.3 FIRE DEPARTMENT CONNECTION

A. VERIFY EXISTING AND RE-USE IF OPERATIONAL.

2.4 FIRESTOPPING

A. MANUFACTURERS:
1. DOW CORNING CORP.
2. FIRE TRAK CORP.
3. HILTI CORP.
4. INTERNATIONAL PROTECTIVE COATING CORP.
5. 3M FIRE PROTECTION PRODUCTS.
6. SPECIFIED TECHNOLOGY, INC.
7. TREMCO, INC.

B. MATERIALS CONFORMING TO FLAME (F) AND TEMPERATURE (T) RATINGS REQUIRED BY LOCAL BUILDING CODE AND AS TESTED BY NATIONALLY ACCEPTED TEST AGENCIES ACCORDING TO ASTM E814 OR UL 1479 FIRE TESTS IN CONFIGURATION THAT IS REPRESENTATIVE OF FIELD CONDITIONS. DEGREE RATING MUST BE MINIMUM OF ONE (1) HOUR BUT NOT LESS THAN FIRE RESISTANCE OF ASSEMBLY BEING PENETRATED.

C. DO NOT USE FIRESTOP MATERIALS WHICH DISSOLVE IN WATER AFTER CURING.

D. DO NOT USE FIRESTOP MATERIALS WHOSE SHELF LIFE HAS EXPIRED.

PART 3 EXECUTION

3.1 INSTALLATION

A. PROVIDE GATE VALVES FOR SHUT-OFF OR ISOLATING SERVICE. WHERE APPROVED, USE BUTTERFLY VALVES INSTEAD OF GATE VALVES.

B. PROVIDE DRAIN VALVES AT MAIN SHUT-OFF VALVES, LOW POINTS OF PIPING AND APPARATUS.

C. CONNECT SYSTEM TO WATER SOURCE AHEAD OF DOMESTIC WATER CONNECTION WITH DOUBLE CHECK VALVE ASSEMBLY.

D. HYDROSTATICALLY TEST ENTIRE SYSTEM. TEST WITNESSED BY FIRE MARSHA, OR AUTHORITY HAVING JURISDICTION.

3.2 INSTALLATION - FIRESTOPPING

A. INSTALL FIRESTOPPING AT THE FOLLOWING PENETRATIONS:
1. WHERE PENETRATIONS INCLUDING PIPING WHICH PASS THROUGH ONE OR BOTH OUTER SURFACES OF FIRE-RATED FLOOR OR WALL.
2. WHERE PENETRATION OCCURS THROUGH STRUCTURAL FLOOR OR ROOF AND SPACE WOULD OTHERWISE REMAIN OPEN BETWEEN SURFACES OF PENETRATION AND EDGE OF ADJOINING STRUCTURAL FLOOR OR ROOF.
3. WHERE PENETRATION OCCURS THROUGH FIRE-RATED WALLS OR PARTITIONS OF HOLLOW-TYPE CONSTRUCTION, PROVIDE FIRESTOPPING TO COMPLETELY FILL SPACES AROUND PENETRATION, ON EACH SIDE OF WALL OR PARTITION.
4. AT SLEEVED PENETRATIONS, FIRESTOP ANNULAR SPACE, BETWEEN SLEEVE AND WALL OPENINGS.

SECTION 22 05 00 – COMMON WORK RESULTS FOR PLUMBING

PART 1 GENERAL

1.1 SUBMITTALS

A. PRODUCT DATA: SUBMIT VALVES AND GAGES.

1.2 LEAD CONTENT OF DRINKING WATER PIPE AND FITTINGS:

A. PIPE, PIPE FITTINGS, JOINTS, VALVES FAUCETS AND FIXTURE FITTINGS UTILIZED TO SUPPLY WATER FOR DRINKING OR COOKING PURPOSES WILL COMPLY WITH THE REQUIREMENTS OF NSF 372 AND SHALL HAVE A WEIGHTED LEAD CONTENT OF 0.25 PERCENT LEAD OR LESS.

PART 2 PRODUCTS

2.1 PIPING

A. SANITARY SEWER AND VENT BURIED: SERVICE WEIGHT CAST IRON, TYPE DWV COPPER TUBE, ABS TYPE DWV, SOLID WALL PVC TYPE DWV.

B. SANITARY SEWER AND VENT ABOVE GRADE: SERVICE WEIGHT CAST IRON, TYPE DWV COPPER TUBE, ABS TYPE DWV, PVC TYPE DWV. DO NOT USE PVC OR ABS PIPING IN RETURN AIR PLENUMS.

C. DOMESTIC WATER BURIED INSIDE BUILDING: TYPE K COPPER TUBE, ANNEALED WITHOUT FITTINGS.

D. DOMESTIC WATER ABOVE GRADE: TYPE L COPPER TUBE, HARD DRAWN, SOLDERED JOINTS WITH 95-5 SOLDER, OR COPPER PRESS FITTINGS CONFORMING TO ASME B16.18 CAST COPPER ALLOY OR ASME B16.22, WROUGHT COPPER AND BRONZE WITH EPDM O-RING SEALS. COMPRESSION TYPE JOINTS MADE WITH MANUFACTURER'S TOOL.

E. DOMESTIC WATER ABOVE GRADE, 2 INCH AND SMALLER: CROSS-LINKED POLYETHYLENE (PEX-B) TUBE, SILANE OR MOISTURE CURE MANUFACTURING PROCESS, ASTM F876, AND ASTM F2023, RATED FOR 100 PSI AT 180 DEGREES F., MAXIMUM EXPOSURE OF SIX MONTHS; RATED FOR END USE CONDITION OF 100 PERCENT AT 140 DEGREES F., AND APPROVED FOR CONTINUOUS DOMESTIC HOT WATER CIRCULATION SYSTEMS USE. JOINTS POLYMER BODY WITH COMPRESSION TYPE FITTINGS MADE WITH MANUFACTURERS TOOL.

F. NATURAL GAS ABOVE GRADE: SCHEDULE 40 BLACK STEEL, THREADED JOINTS. PIPES LARGER THAN 2" SHALL HAVE WELDED JOINTS.

2.2 VALVES

A. BALL VALVES
1. DOMESTIC WATER: 3 INCHES AND SMALLER, 150 SWP, 600 WOG, TWO PIECE BODY, THREADED ENDS, ALL BRONZE CONSTRUCTION, TEFLON SEATS, CHROME PLATED SOLID BRONZE BALL, CONVENTIONAL PORT, BLOWOUT PROOF STEM, LEVER HANDLE.

B. GATE VALVES
1. OVER 2 INCHES: IRON BODY, OS&Y TYPE.

C. GAS VALVES
1. UP TO 2 INCHES: BRONZE BODY, FULL PORT PLUG VALVE; OR BALL VALVE UL LISTED FOR GAS SERVICE; OR BUTTERFLY VALVE UL LISTED FOR GAS SERVICE
2. OVER 2 INCHES: CAST IRON BODY AND FULL PORT PLUG.

D. SPRING LOADED CHECK VALVES: IRON BODY, BRONZE TRIM, STAINLESS STEEL SPRING, RENEWABLE COMPOSITION DISC.

2.3 GAGES

A. PRESSURE GAGES: STEEL OR ALUMINUM CASE, 4-1/2 INCH DIAMETER, ONE PERCENT (1%) MID-SCALE ACCURACY.

B. STEM TYPE THERMOMETERS: RED APPEARING, SPIRIT FILLED, ADJUSTABLE ANGLE, LENS FRONT TUBE, CAST ALUMINUM CASE, 9 INCH SCALE.

C. TEST PLUGS: 1/4 INCH OR 1/2 INCH FITTING AND CAP FOR RECEIVING PRESSURE OR TEMPERATURE PROBE WITH TEST KIT.

2.4 PIPE HANGERS

A. ALL SERVICES: CLEVIS TYPE CONFORMING TO MSS TYPE 1.

B. UPPER ATTACHMENTS: COMPATIBLE WITH TYPE OF STRUCTURE BEING USED. [AT STEEL JOIST LOCATIONS ATTACH HANGERS TO TOP CHORD OF JOISTS.]

2.5 PLUMBING IDENTIFICATION

A. VALVE TAGS: BRASS WITH STAMPED LETTERS AND BRASS "S" HOOKS. PROVIDE TYPE WRITTEN SCHEDULE OF VALVE TAGS AND LOCATIONS TO OWNER AT COMPLETION OF PROJECT.

B. PIPING IDENTIFICATION: SNAP ON PLASTIC MARKERS WITH SYSTEM NAME AND FLOW DIRECTION.

2.6 FIRESTOPPING

A. MANUFACTURERS:
1. DOW CORNING CORP.
2. FIRE TRAK CORP.
3. HILTI CORP.
4. INTERNATIONAL PROTECTIVE COATING CORP.
5. 3M FIRE PROTECTION PRODUCTS.
6. SPECIFIED TECHNOLOGY, INC.
7. TREMCO, INC.

B. MATERIALS CONFORMING TO FLAME (F) AND TEMPERATURE (T) RATINGS REQUIRED BY LOCAL BUILDING CODE AND AS TESTED BY NATIONALLY ACCEPTED TEST AGENCIES ACCORDING TO ASTM E814 OR UL 1479 FIRE TESTS IN CONFIGURATION THAT IS REPRESENTATIVE OF FIELD CONDITIONS. DEGREE RATING MUST BE MINIMUM OF ONE (1) HOUR BUT NOT LESS THAN FIRE RESISTANCE OF ASSEMBLY BEING PENETRATED.

C. DO NOT USE FIRESTOP MATERIALS WHICH DISSOLVE IN WATER AFTER CURING.

D. DO NOT USE FIRESTOP MATERIALS WHOSE SHELF LIFE HAS EXPIRED.

PART 3 EXECUTION

3.1 INSTALLATION

A. PROVIDE DIELECTRIC CONNECTIONS WHEREVER JOINTING DISSIMILAR METALS.

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

C. INSTALL BALL VALVES FOR SHUT OFF APPLICATIONS (2 INCH AND SMALLER) IN DOMESTIC WATER SYSTEMS.

D. INSTALL GATE VALVES FOR SHUT OFF APPLICATIONS (2-1/2 INCH AND LARGER) IN DOMESTIC WATER SYSTEMS.

E. INSTALL BALL VALVES FOR THROTTLING OR BYPASS APPLICATIONS IN DOMESTIC WATER SYSTEMS.

F. INSTALL PLUG VALVES FOR SHUT OFF APPLICATIONS IN NATURAL GAS PIPING SYSTEMS.

G. INSTALL PRESSURE GAGES WITH GAGE COCK.

H. INSTALL THERMOMETERS IN PIPING SYSTEMS IN SOCKETS.

I. PROVIDE 3/4 INCH BALL DRAIN VALVES AT MAIN SHUT-OFF VALVES, LOW POINTS OF PIPING, BASES OF VERTICAL RISERS, AND AT EQUIPMENT.

J. CLEAN AND TEST DOMESTIC WATER PIPING SYSTEM IN ACCORDANCE WITH OHIO PLUMBING CODE.

K. TEST SANITARY AND VENT PIPING IN ACCORDANCE WITH OHIO PLUMBING CODE.

L. TEST NATURAL GAS PIPING IN ACCORDANCE WITH IFGC.

3.2 INSTALLATION - FIRESTOPPING

A. INSTALL FIRESTOPPING AT THE FOLLOWING PENETRATIONS:
1. WHERE PENETRATIONS INCLUDING PIPING WHICH PASS THROUGH ONE OR BOTH OUTER SURFACES OF FIRE-RATED FLOOR OR WALL.
2. WHERE PENETRATION OCCURS THROUGH STRUCTURAL FLOOR OR ROOF AND SPACE WOULD OTHERWISE REMAIN OPEN BETWEEN SURFACES OF PENETRATION AND EDGE OF ADJOINING STRUCTURAL FLOOR OR ROOF.
3. WHERE PENETRATION OCCURS THROUGH FIRE-RATED WALLS OR PARTITIONS OF HOLLOW-TYPE CONSTRUCTION. PROVIDE FIRESTOPPING TO COMPLETELY FILL SPACES AROUND PENETRATION, ON EACH SIDE OF WALL OR PARTITION.
4. AT SLEEVED PENETRATIONS, FIRESTOP ANNULAR SPACE, BETWEEN SLEEVE AND WALL OPENINGS.

SECTION 22 07 00 - PLUMBING INSULATION

PART 1 GENERAL

1.1 SUBMITTALS

A. PRODUCT DATA: REQUIRED.

B. SAMPLES: NOT REQUIRED.

PART 2 PRODUCTS

2.1 PIPE INSULATION

A. GLASS FIBER: RIGID MOLDED, NONCOMBUSTIBLE WITH VAPOR BARRIER JACKET.

B. CELLULAR FOAM: FLEXIBLE, CELLULAR ELASTOMERIC, MOLDED OR SHEET.

C. PIPE INSULATION RATED FOR 0-1000 DEGREES F. WITH A "K" FACTOR OF 0.24 AT A MEAN TEMPERATURE OF 100 DEGREES F. REFER TO SCHEDULE FOR INSULATION REQUIRED THICKNESS.

D. INSULATION SHALL NOT CONTAIN ANY PBDE (POLYBROMINATED DIPHENL ETHERS) FLAME RETARDANTS.

E. JACKETS
1. PVC PLASTIC: ONE PIECE MOLDED TYPE FITTING COVERS AND SHEET MATERIAL, OFF-WHITE COLOR.
2. ALUMINUM JACKET: SHEET, SMOOTH EMBOSSED FINISH.

PART 3 EXECUTION

3.1 INSTALLATION

A. PIPING INSULATION
1. PROVIDE COLD PIPES WITH VAPOR BARRIER JACKETS.
2. INSULATE COMPLETE SYSTEM.

3.2 SCHEDULES

	PIPING INSULATION	PIPE SIZE INCH	INSULATION THICKNESS INCH
A.			
1.	DOMESTIC HOT WATER SUPPLY AND RECIRCULATION	UP TO 1.0	1.0
		1.25 TO 2.0	1.0
		OVER 2.0	1.5
2.	DOMESTIC COLD WATER	ALL SIZES	0.5

SECTION 22 30 00 - PLUMBING EQUIPMENT

PART 1 GENERAL

1.1 SUBMITTALS

A. PRODUCT DATA: REQUIRED. [SUBMIT EACH TYPE OF PLUMBING SPECIALTY.]REQUIRED.

PART 2 PRODUCTS

2.1 PLUMBING DRAINAGE SPECIALTIES

A. SEE DRAWINGS

2.2 PLUMBING SUPPLY SPECIALTIES

A. SEE DRAWINGS.

2.3 PLUMBING EQUIPMENT

A. SUMP PUMP:
1. SUBMERSIBLE TYPE FURNISHED WITH SUCTION STRAINER, CAST IRON SHELL, STAINLESS STEEL SHAFT AND PHENOLIC OR BRONZE IMPELLER. HERMETICALLY SEALED MOTOR WITH BUILT-IN OVERLOAD PROTECTION.
2. CONTROLS CONSIST OF FLOAT OPERATED MERCURY SWITCH, WITH POWER CORD AND GROUNDED PLUG.
3. MANUFACTURER: WEIL SERIES 1400 OR SIMILAR BY AURORA PUMP CO OR PACO.

PART 3 EXECUTION

3.1 INSTALLATION

A. INSTALL UNIONS DOWNSTREAM OF VALVES AND AT EQUIPMENT OR APPARATUS CONNECTIONS.

SECTION 22 40 00 - PLUMBING FIXTURES

PART 1 GENERAL

1.1 SUBMITTALS

A. PRODUCT DATA: REQUIRED. SUBMIT EACH TYPE OF PLUMBING FIXTURE AND TRIM. REQUIRED.

PART 2 PRODUCTS

2.1 PLUMBING FIXTURES

A. SEE DRAWINGS FOR SCHEDULE OF PLUMBING FIXUTRES.

PART 3 EXECUTION

3.1 INSTALLATION

A. INSTALL EACH FIXTURE WITH CHROME PLATED RIGID OR FLEXIBLE SUPPLIES WITH SCREWDRIVER STOPS, REDUCERS, AND ESCUTCHEONS.

B. SEAL SPACE BETWEEN PLUMBING FIXTURES AND WALL OR FLOOR WITH SILICONE SEALANT TO PROVIDE WATERTIGHT INSTALLATION.

C. INSTALL UNIONS DOWNSTREAM OF VALVES AND AT EQUIPMENT OR APPARATUS CONNECTIONS.

STATE OF OHIO
JOHN DAVID MILENIUS
E-56036
REGISTERED PROFESSIONAL ENGINEER
6-8-26

tec inc.
mechanical engineering & commissioning
4955 Bradenton Ave. STE 240
Dublin, OH 43017
t 614.267.5617
f 614.267.5617
www.tec-balancing.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC.

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD:	DATE:
	06/08/26	100% CD	DM	06/08/26

FIRE PROTECTION AND PLUMBING SPECIFICATIONS

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

NONE

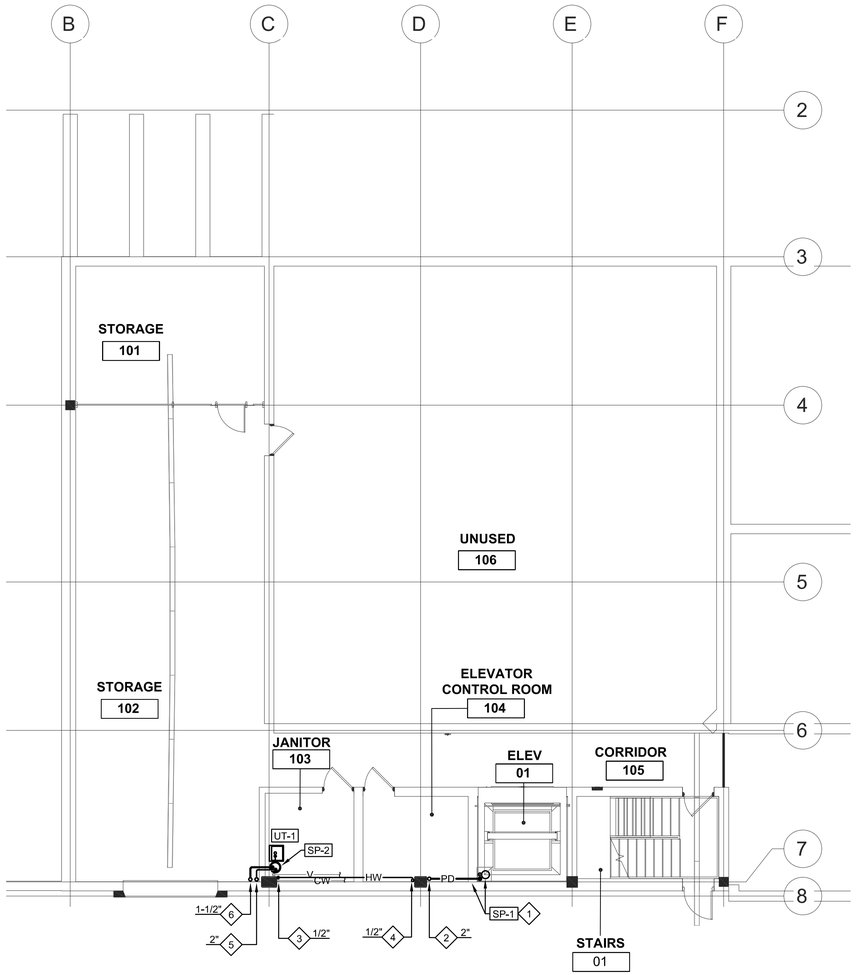
SHEET NO.

P-002

PROJ NO.: 25013

DATE: 06/08/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



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

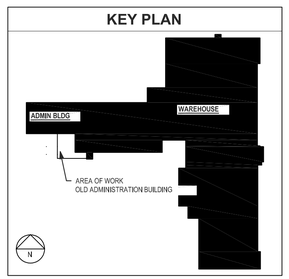
FIRE PROTECTION NOTE

THE FOLLOWING IS A PERFORMANCE BASED SPECIFICATION:
CONTRACTOR TO PROVIDE NEW WET AND DRY PIPE SPRINKLER PIPING FOR FULL SPRINKLER COVERAGE FOR SCOPE OF NEW WORK AREAS SERVING THE RELATED AREA OF WORK ON KEY PLAN FOR ALL FLOORS. COORDINATE SPRINKLER PIPE ROUTING WITH WORK OF OTHER TRADES. REFER TO SPECIFICATIONS 21 05 00 FOR SPRINKLER SYSTEM TYPE, AND ADDITIONAL REQUIREMENTS. SUBMIT SPRINKLER DRAWINGS AND HYDRAULIC CALCULATIONS TO BUILDING DEPARTMENT.

PLAN NOTES

1. 2 INCH PUMP DISCHARGE FROM SUMP PUMP IN ELEVATOR PIT TO SLEEVE THROUGH WALL.
2. PUMP DISCHARGE FROM SUMP PUMP IN ELEVATOR PIT UP THROUGH FLOOR. SEE SECOND FLOOR PLAN FOR CONTINUATION.
3. RECONNECT TO EXISTING COLD WATER PIPING TO SERVE UTILITY TUB.
4. HOT WATER PIPING FROM FIRST FLOOR TO EXTEND TO NEW UTILITY TUB.
5. VENT UP UP THROUGH FLOOR. SEE SECOND FLOOR PLAN FOR CONTINUATION.
6. PUMP DISCHARGE FROM SUMP PUMP FROM UTILITY TUB IN JANITOR 103 UP THROUGH FLOOR. SEE SECOND FLOOR PLAN FOR CONTINUATION.

KEY PLAN



STATE OF OHIO
JOHN DAVID MILENIUS
E-56036
REGISTERED PROFESSIONAL ENGINEER
6-8-26

tec inc.
4955 Bridgetown Ave. STE 240
Dublin, OH 43017
t 614.457.4777
f 614.457.5417
info@tec-mep-fpe-hvac-engineering.com
www.tec-inc.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC.
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D:	DATE:
	06/08/26	100% CD	DM	06/08/26

PLUMBING FIRST FLOOR PLAN

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

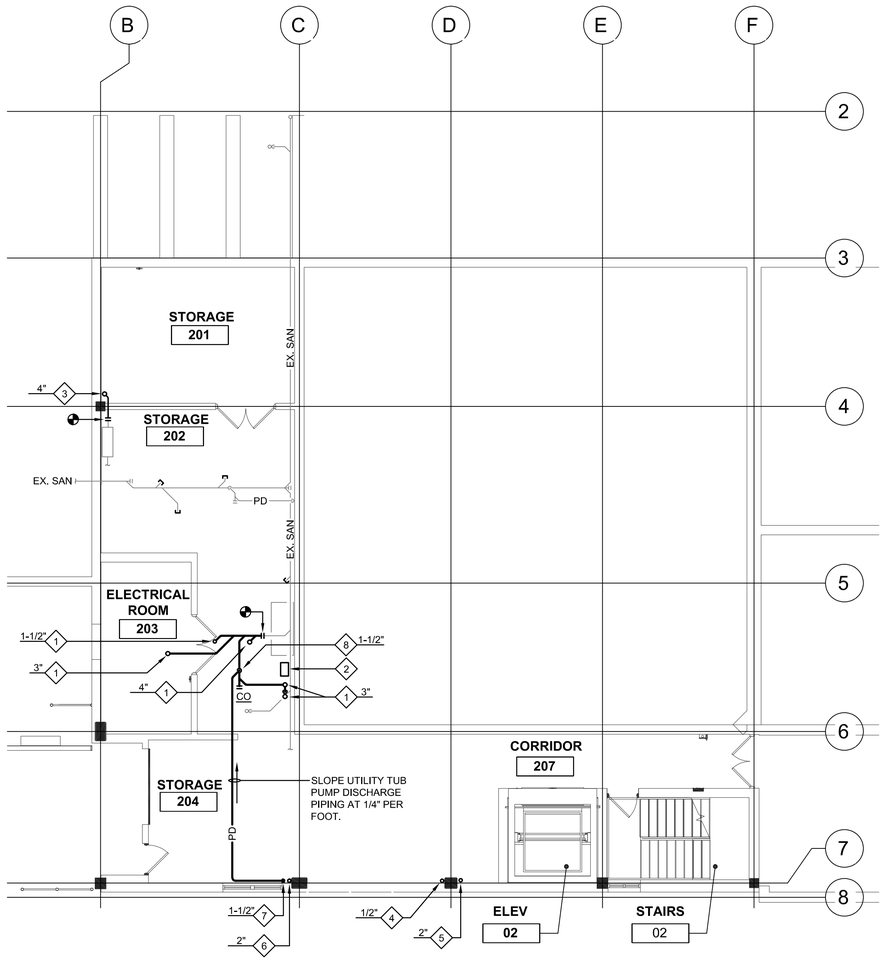
2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

1/8" = 1'-0"

SHEET NO.
P-200

PROJ NO.: 25013
DATE: 06/08/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 PLUMBING SECOND FLOOR PLAN
1/8"=1'-0"

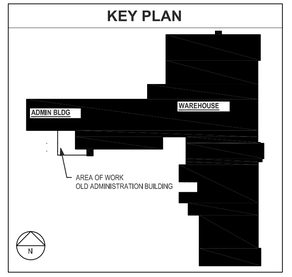
FIRE PROTECTION NOTE

THE FOLLOWING IS A PERFORMANCE BASED SPECIFICATION:
CONTRACTOR TO PROVIDE NEW WET AND DRY PIPE SPRINKLER PIPING FOR FULL SPRINKLER COVERAGE FOR SCOPE OF NEW WORK AREAS SERVING THE RELATED AREA OF WORK ON KEY PLAN FOR ALL FLOORS. COORDINATE SPRINKLER PIPE ROUTING WITH WORK OF OTHER TRADES. REFER TO SPECIFICATIONS 21 05 00 FOR SPRINKLER SYSTEM TYPE, AND ADDITIONAL REQUIREMENTS. SUBMIT SPRINKLER DRAWINGS AND HYDRAULIC CALCULATIONS TO BUILDING DEPARTMENT.

PLAN NOTES

1. SANITARY SEWER PIPING UP THROUGH FLOOR. REFER TO SHEET P-202 FOR CONTINUATION.
2. NEW DRY-PIPE SPRINKLER SYSTEM COMPRESSOR.
3. COLD WATER PIPING UP THROUGH FLOOR. REFER TO SHEET P-202 FOR CONTINUATION.
4. HOT WATER PIPING FROM THIRD FLOOR DOWN ALONG COLUMN THROUGH FLOOR TO FIRST FLOOR.
5. PUMP DISCHARGE FROM SUMP PUMP IN ELEVATOR PIT UP THROUGH FLOOR. SEE THIRD FLOOR PLAN FOR CONTINUATION.
6. VENT PIPING UP ALONG WALL THROUGH FLOOR ABOVE. SEE THIRD FLOOR PLAN FOR CONTINUATION.
7. PUMP DISCHARGE FROM SUMP PUMP FROM UTILITY TUB IN JANITOR 103 UP ALONG WALL AS HIGH AS POSSIBLE TO BELOW DECK.
8. CONNECT PUMP DISCHARGE INTO TOP OF SANITARY SEWER IN CEILING SPACE.

KEY PLAN



STATE OF OHIO
JOHN DAVID MILENIUS
E-56036
REGISTERED PROFESSIONAL ENGINEER
6-8-26

tec inc.
4955 Bridgetown Ave. STE 240
Dublin, OH 43017
t 614.457.4777
f 614.457.5417
www.tec-mep.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC.
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D:	DATE:
	06/08/26	100% CD	DM	06/08/26

PLUMBING SECOND FLOOR PLAN

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

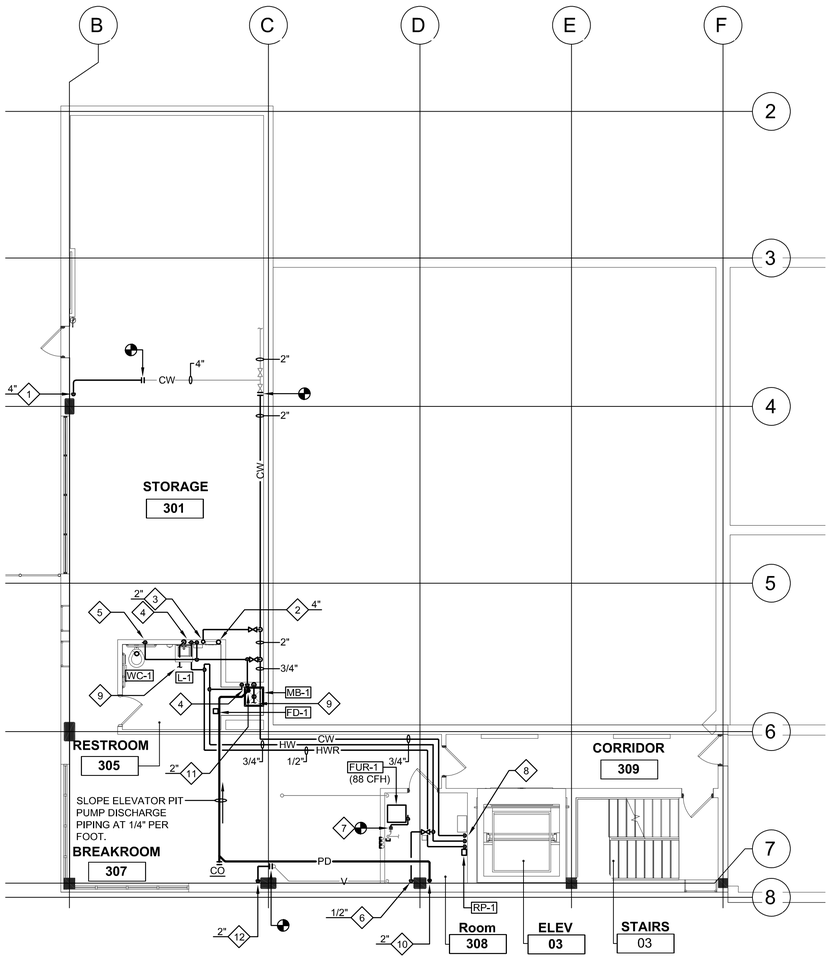
2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

1/8" = 1'-0"

SHEET NO.
P-201

PROJ NO.: 25013
DATE: 06/08/2026

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



1 PLUMBING THIRD FLOOR PLAN
1/8"=1'-0"

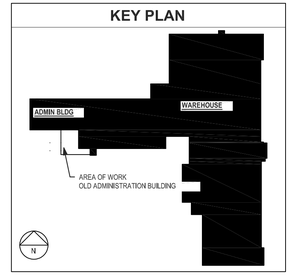
FIRE PROTECTION NOTE:

THE FOLLOWING IS A PERFORMANCE BASED SPECIFICATION:
CONTRACTOR TO PROVIDE NEW WET AND DRY PIPE SPRINKLER PIPING FOR FULL SPRINKLER COVERAGE FOR SCOPE OF NEW WORK AREAS SERVING THE RELATED AREA OF WORK ON KEY PLAN FOR ALL FLOORS. COORDINATE SPRINKLER PIPE ROUTING WITH WORK OF OTHER TRADES. REFER TO SPECIFICATIONS 21 05 00 FOR SPRINKLER SYSTEM TYPE, AND ADDITIONAL REQUIREMENTS. SUBMIT SPRINKLER DRAWINGS AND HYDRAULIC CALCULATIONS TO BUILDING DEPARTMENT.

PLAN NOTES

1. COLD WATER PIPING UP THROUGH FLOOR FROM SECOND FLOOR TO AS HIGH AS POSSIBLE AND CONNECT INTO EXISTING.
2. SANITARY SEWER FROM SECOND FLOOR TO RISE UP WITHIN WALL AND RECONNECT INTO EXISTING SERVING FOURTH FLOOR RESTROOMS.
3. COLD WATER PIPING UP TO SERVE FOURTH FLOOR RESTROOMS.
4. 1-1/2" VENT UP AND 1/2" HOT AND COLD WATER PIPING DOWN IN WALL TO SERVE FIXTURE.
5. 1" COLD WATER PIPING DOWN IN WATER TO SERVE FIXTURE.
6. HOT WATER PIPING DOWN THROUGH FLOOR. SEE SHEET P-201 FOR CONTINUATION.
7. NATURAL GAS PIPING CONNECTED INTO EXISTING AND EXTEND TO SERVE NEW FURNACE. SEE SHEET P-001 FOR GAS-FIRED EQUIPMENT CONNECTION DETAIL.
8. 3/4" HOT WATER, 3/4" COLD WATER, AND 1/2" HOT WATER RETURN TO CONNECT INTO EXISTING TANKLESS WATER HEATER. 1/2" HOT WATER RETURN TO CONNECT INTO SYSTEM PER MANUFACTURERS RECOMMENDATIONS.
9. CONTRACTOR TO FIELD VERIFY EXISTING VENT PIPING AND CONNECT NEW VENT PIPING INTO EXISTING.
10. PUMP DISCHARGE FROM ELEVATOR PIT UP ALONG WALL TO AS HIGH AS POSSIBLE.
11. PUMP DISCHARGE TO SAFEWASTE (AIR GAP) ABOVE MOP BASIN.
12. VENT PIPING FROM FLOOR BELOW, UP ALONG WALL TO ABOVE CEILING.

KEY PLAN



STATE OF OHIO
JOHN DAVID MILENIUS
E-56036
REGISTERED PROFESSIONAL ENGINEER
6-8-26

tec inc.
mechanical & plumbing engineers
4955 Bradenton Ave. STE 240
Dublin, OH 43017
t 614.457.4007
f 614.457.5417
www.tec-hvacplumbing.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC.
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D:	DATE:
	06/08/26	100% CD	DM	06/08/26

PLUMBING THIRD FLOOR PLAN

MCES 130075-64
MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION
2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

1/8" = 1'-0"

SHEET NO.
P-202

PROJ NO.: 25013
DATE: 06/08/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"

HVAC SYMBOLS & ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
BFP	BACK FLOW PREVENTOR
BTUH	BRITISH THERMAL UNIT PER HOUR
CLG	CEILING
D	CONDENSATE DRAIN
CFD	CEILING FIRE DAMPER
CFM	CUBIC FEET PER MINUTE
DIA.	DIAMETER
D#-	DIFFUSER
DIA.	DIAMETER
EA.	EACH
EF.	EXHAUST FAN
EFF.	EFFICIENCY
ELECT.	ELECTRIC
EAT	ENTERING AIR TEMP
EDB	ENTERING DRY BULB
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMP.
EXH	EXHAUST
E.A.	EXHAUST AIR
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
FD	FLOOR DRAIN
FLEX.	FLEXIBLE
FMS	FACILITY MANAGEMENT SYSTEM
FURN	FURNACE
G	GRILLE
GA.	GAUGE
G.C	GENERAL CONTRACTOR
HP	HORSEPOWER
HVAC	HEATING, VENTILATIN & AIR CONDITIONING
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LTW	LEAVING WATER TEMPERATURE
MBH	THOUSAND BTUH
MCA	MINIMUM CIRCUIT AMPACITY
MFR	MANUFACTURER
MIN.	MINIMUM
M.O.D.	MOTOR OPERATED DAMPER
MOP	MAXIMUM OVER-CURRENT PROTECTION
N.T.S.	NOT TO SCALE
O.A.	OUTSIDE AIR
P.C.	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PG	PRESSURE GAUGE
PH.	PHASE
R	REGISTER
R.A.	RETURN AIR
REL.A.	RELIEF AIR
RLA	RUNNING LOAD AMPS
RM	ROOM
S.A.	SUPPLY AIR
SHT	SHEET
SP	STATIC PRESSURE
TC	TEMPERATURE CONTROL CONTRACTOR
TCP	TEMPERATURE CONTROL PANEL
TSP	TOTAL STATIC PRESSURE
TYP.B.	TYPICAL
UH	UNIT HEATER
V.D	VOLUME DAMPER

	TEE (TURNING DOWN)
	TEE (TURNING UP)
	BRANCH OFF-TOP
	90° ELBOW (TURNING UP)
	90° ELBOW (TURNING DOWN)
T	THERMOSTAT / TEMPERATURE SENSOR
	VOLUME DAMPER
	ROUND DUCT
	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE
SD1-8"-150	TERMINAL MARK-NECK SIZE- AIRFLOW (CFM)
SR1-12/8-150	TERMINAL MARK- REGISTER SIZE- AIRFLOW (CFM)

GENERAL REQUIREMENTS:

1. CODES: INSTALL ALL WORK AND MATERIALS PER STATE, LOCAL, AND NATIONAL CODES. CONTRACTOR SHALL BEAR TOTAL RESPONSIBILITY OF INSTALLING THEIR WORK PER CODES AND REGULATIONS PER AUTHORITY HAVING JURISDICTION. EACH CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND FEES, AND FILE ALL DOCUMENTS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
2. MATERIALS: FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND DETAILS TO FINISH THE WORK NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM. ALL MATERIAL SHALL BE NEW AND UNDETERIORATED AND INSTALLED IN A WORKMANLIKE MANNER, ACCEPTABLE TO THE OWNER, BY CRAFTSMAN SKILLED IN THE TRADE. WORK THAT IS UNACCEPTABLE TO THE OWNER OR INSPECTION AGENCIES SHALL BE CORRECTED AT NO ADDITIONAL COST.
3. LOCATIONS: THE DRAWINGS ARE SCHEMATIC IN NATURE AND EXACT LOCATIONS SHALL BE DETERMINED BY FIELD CONDITIONS. SOME MINOR RELOCATION MAY BE NECESSARY FOR PROPER ACCESS TO EQUIPMENT FOR MAINTENANCE, TO SOLVE CONFLICTS, ETC. AT NO ADDITIONAL COST.
4. MANUFACTURERS: ALL EQUIPMENT AND MATERIAL IS SPECIFIED TO BE BY BASIS-OF-DESIGN MANUFACTURER. THE CONTRACTOR MAY USE OTHER MANUFACTURERS LISTED IN THE SPECIFICATIONS IF THEIR PRODUCT HAS SIMILAR QUALITY, CONFIGURATION, PERFORMANCE, SOUND CHARACTERISTICS, APPLICATION RECOMMENDATION, SPACE REQUIREMENTS, ETC. IF ANOTHER MANUFACTURER IS CHOSEN, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT THE ABOVE CRITERION IS MET.
5. CLEAN AND PAINT: CLEAN SYSTEMS AND EQUIPMENT BEFORE FINAL ACCEPTANCE BY OWNER. CLEAN RUST APPEARING ON FACTORY FINISHED EQUIPMENT AND REPAINT TO FACTORY FINISH. ALL HANGERS, STEEL SUPPORTS, AND CONTRACTOR SHALL PAINT ALL HANGERS, STEEL SUPPORTS, AND MISCELLANEOUS IRON WITH ONE PRIME COAT AND ONE FINISH COAT OF BLACK ENAMEL.
6. COMPLETION ITEMS: UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL TURN OVER TO THE OWNER THE FOLLOWING ITEMS:
   - A. TWO COPIES OF THE OPERATING AND MAINTENANCE MANUALS, CONTAINING A DESCRIPTION OF EACH SYSTEM, A COPY OF EACH SHOP DRAWING AND OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL ITEMS FURNISHED.
   - B. A LETTER GUARANTEE AND ALL WARRANTIES.
   - C. ALL BUILDING INSPECTION CERTIFICATES.
   - D. "AS BUILT" DRAWINGS, NEATLY MARKED IN RED SHOWING ALL DEVIATIONS FROM THE PLANS.
7. SYSTEM START-UP: UPON COMPLETION, CONTRACTOR SHALL CLEAN, LUBRICATE, CHARGE, AND BALANCE ALL SYSTEMS AND PLACE IN OPERATION. ANY FILTERS SHALL BE REPLACED WITH MERV 13 FILTERS. STRAINERS, ETC. THAT ARE DIRTY SHALL BE REPLACED WITH NEW STRAINER SCREENS.
8. GUARANTEE: THE CONTRACTOR SHALL GUARANTEE THAT THE INSTALLATION IS FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP AND WILL PROMPTLY REPAIR OR REPLACE DEFECTS FOR ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER. EXTENDED WARRANTY IS SPECIFIED IN EQUIPMENT SPECIFICATIONS.
9. MANUFACTURER'S INSTRUCTIONS: INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. IF MANUFACTURER'S INSTRUCTIONS CONFLICT WITH THE DRAWINGS OR APPLICABLE BUILDING CODES, THE CONTRACTOR SHALL BRING SUCH CONFLICTS TO THE ATTENTION OF THE OWNER WHO SHALL DETERMINE WHICH REQUIREMENTS APPLY.
10. BEFORE THE NEW SPACE CONDITIONING SYSTEMS ARE OPERATED FOR NORMAL USE, BALANCE EACH SYSTEM IN ACCORDANCE WITH PROCEDURES DEFINED BY THE ASSOCIATED AIR BALANCE COUNCIL (AACB) NATIONAL STANDARDS.
11. FOLLOWING COMPLETION OF THE TESTING AND ADJUSTING AND BALANCING, SUBMIT TO THE DESIGN PROFESSIONAL A FINAL REPORT OF THE TESTING, SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THOSE SERVICES.

GENERAL NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF THERMOSTATS, DIFFUSERS, AND OTHER SIMILAR ITEMS.
2. PROVIDE VOLUME DAMPERS ON ALL BRANCH DUCTWORK.
3. CEILING SPACE MAY BE LIMITED. COORDINATE ALL PIPE AND DUCT ROUTING, ABOVE CEILING, WITH ALL OTHER TRADES.
4. MAKE ALL FINAL PIPING CONNECTIONS COMPLETE TO ALL MECHANICAL EQUIPMENT.
5. MAINTAIN MANUFACTURER'S REQUIRED CLEARANCES FOR MAINTENANCE FOR ALL MECHANICAL EQUIPMENT.
6. ALL TEMPERATURE CONTROLLERS/SENSORS TO BE MOUNTED 54" AFF.

STATE OF OHIO
JOHN DAVID MILENIUS
E-56036
PROFESSIONAL ENGINEER
6-8-26

#953 Bridgeton Ave, STE 240
Dublin, OH 43017
(614) 267-5437
www.tecincengr.com
engineering & surveying | columbus | pittsburgh | cleveland
tec inc.

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION
	06-08-2026	100% CD
1	08/03/2026	DESIGN REVISIONS

HVAC GENERAL NOTES & REQUIREMENTS, SYMBOLS & ABBREVIATIONS

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION
2579 SANDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO.
M-100

PROJ NO.: 25013
DATE: 06/08/2026

1/16" = 1'-0" 0 4' 8' 16' | 1/8" = 1'-0" 0 2' 4' 8' | 3/16" = 1'-0" 0 2' 4' 8' | 1/4" = 1'-0" 0 1' 2' 4' | 3/8" = 1'-0" 0 1' 2' 4' | 1/2" = 1'-0" 0 6" 1' 2' | 3/4" = 1'-0" 0 3" 6" 1' 2' | 1" = 1'-0" 0 3" 6" 1' 2' | 1 1/2" = 1'-0" 0 3" 6" 1' | 3" = 1'-0" 0 1" 2" 3" 6" 1' | 6" = 1'-0" 0 1" 2" 3" 6"

SPLIT SYSTEM HEATING/COOLING UNIT SCHEDULE

MARK	SERVICE	MANUFACTURER/MODEL	NOMINAL TONS	INDOOR UNIT															OUTDOOR UNIT					SEER	REMARKS
				TOTAL CFM	OA CFM	OA DIA. (inches)	ESP (inches)	RPM	MOTOR HP or W	COOLING-EVAP					HEATING			VOLTAGE	MCA	MOCP	MODEL	AIR ON CONDENSER (degrees F)	VOLTAGE	MCA	MOCP		
										MODEL	TOTAL MBH	SENSIBLE MBH	EAT DB (degrees F)	EAT WB (degrees F)	FUEL	MBH INPUT	MBH OUTPUT									
FUR-1/CU-1	3RD FLOOR	TRANE S9X2C1005PSBA	4	1550	170	8"∅	0.4	1200	1 HP	5TXCC007AS3HCA	47.9	36.95	80	67	NATURAL GAS	100/65	97/63	120V/1∅	9.6	15	5TTA4048A4000A	95	460V/3∅	8.6	15	15	1-7
AC-1/CU-2	ROOM 102 ELEVATOR MACHINE ROOM	MITSUBISHI MSZ-GX12NL	1	136-403	-	-	-	-	30 W	-	12	9.6	80	67	HEAT PUMP	14	-	120V/1∅	1.0	-	MUZ-GX12NL	95	240V/1∅	12	15	25.6	1, 3, 7-9

REMARKS:
1. MOUNT CU OR HP ON CONCRETE PAD. MECHANICAL CONTRACTOR TO PROVIDE CONCRETE PAD, EXTEND 6" BEYOND EQUIPMENT PERIMETER. CONCRETE PAD TO HAVE INTERNAL STEEL WIRE MESH. SECURE UNIT TO CONCRETE PAD USING STAINLESS STEEL FASTENERS.
2. COMBINATION VENT AND COMBUSTION AIR INTAKE.
3. ROUTE CONDENSATE DRAIN TO SPLASHBLOCK, FLOOR DRAIN OR MOP SINK. REFER TO DETAIL ON DRAWING xx.
4. VERTICAL MOUNTING FOR FURNACE, EVAPORATOR COIL, FILTER BOX.
5. PROVIDE WITH FURNACE FLUE DRAIN TRAP ASSEMBLY, AND FILTER BOX. CONTRACTOR TO INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
6. WALL MOUNTED, PROGRAMMABLE THERMOSTAT.
7. REFRIGERANT LINES SIZED FOR ACTUAL LENGTH, INCLUDING ALL PIPE FITTINGS.
8. SINGLE POINT POWER FEED TO OUTDOOR CONDENSING UNIT.
9. PROVIDE WIRELESS TEMPERATURE CONTROLLER. MOUNT ON WALL, IN ACCESSIBLE LOCATION WITHIN ELEVATOR MACHINE ROOM.

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	CFM	STATIC PRESSURE (IN H2O)	RPM	SONES	DRIVE	MOTOR WATTS	ELECTRICAL	APPROXIMATE WEIGHT (LBS)	REMARKS
EF-1	COOK	GCVF-150	CEILING VARIFLOW	140	0.4	1141	3.5	DIRECT	30	120V/1∅	18	1-5

REMARKS:
1. PROVIDE STEEL GRILLE PAINTED WHITE.
2. INSTALL VARIABLE SPEED CONTROLLER PER MANUFACTURER'S RECOMMENDATIONS.
3. FAN TO COME ON WITH LIGHTS.
4. PROVIDE WALL CAP. INSTALL IN OUTSIDE WALL, SEAL WEATHER TIGHT.
5. PROVIDE WITH BACKDRAFT DAMPER.

REGISTERS AND GRILLES SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	MATERIAL	FINISH	FRAME TYPE	SIZE	MAX FACE VELOCITY
SD1	TITUS	OMNI	CEILING DIFFUSER	STEEL	WHITE	24"x24" LAY-IN	6"	600 FPM
SR1	TITUS	300RL	DUCT MOUNTED SUPPLY REGISTER	STEEL	WHITE	SURFACE	REFER TO PLAN	600 FPM
EG1	TITUS	350RL	CEILING MOUNTED	STEEL	WHITE	REFER TO PLAN	22"x10"	400 CFM

ELECTRIC UNIT HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	CFM	AMPS	KW	VOLTAGE	WEIGHT (LBS)	REMARKS
EUH-1	MARKEL	34545T1D	WALL HEATER	245	14.4	4	277V/1∅	55	1-2
EUH-2	MARKEL	5600	UNIT HEATER	275	6	5	480V/3∅	32	1-2

REMARKS:
1. FACTORY DISCONNECT SWITCH.
2. WALL MOUNTED THERMOSTAT, PROVIDE TRANSFORMER.

STATE OF OHIO
JOHN DAVID MILENIUS
E-56036
PROFESSIONAL ENGINEER
6-8-26

#953 Bridgeton Ave, STE 240
Dublin, OH 43017
(614) 267-5437
www.tecinceng.com
cleveland | columbus | pittsburgh
tec inc. engineering & management

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION
	06-08-2026	100% CD
1	08/03/2026	DESIGN REVISIONS

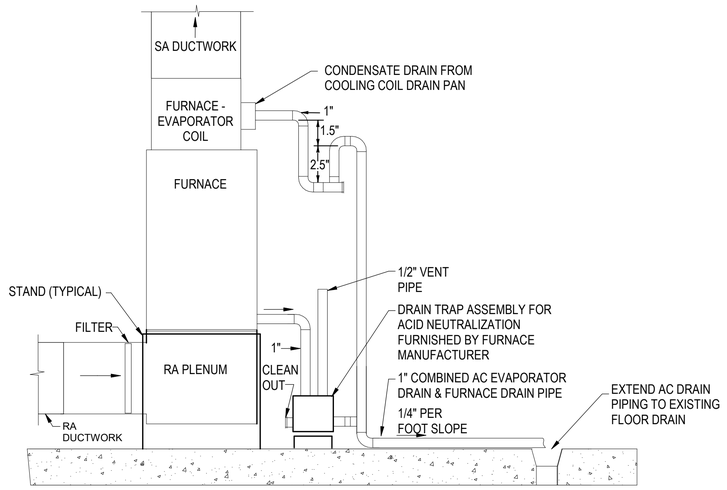
HVAC SCHEDULES

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION
MCES 130075-64
2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

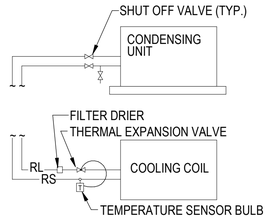
SHEET NO.
M-101

PROJ NO.: 25013
DATE: 06/08/2026

1/16" = 1'-0" 0 4' 8' 16' | 1/8" = 1'-0" 0 2' 4' 8' | 3/16" = 1'-0" 0 2' 4' 8' | 1/4" = 1'-0" 0 1' 2' 4' | 3/8" = 1'-0" 0 1' 2' 4' | 1/2" = 1'-0" 0 6" 1' 2' | 3/4" = 1'-0" 0 3" 6" 1' 2' | 1" = 1'-0" 0 3" 6" 1' 2' | 1 1/2" = 1'-0" 0 3" 6" 1' | 3" = 1'-0" 0 1" 2" 3" 6" 1' | 6" = 1'-0" 0 1" 2" 3" 6"

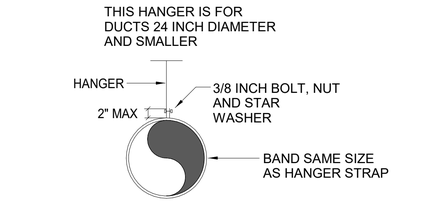


1 FURNACE & CONDENSATE WASTE DETAIL
N.T.S.



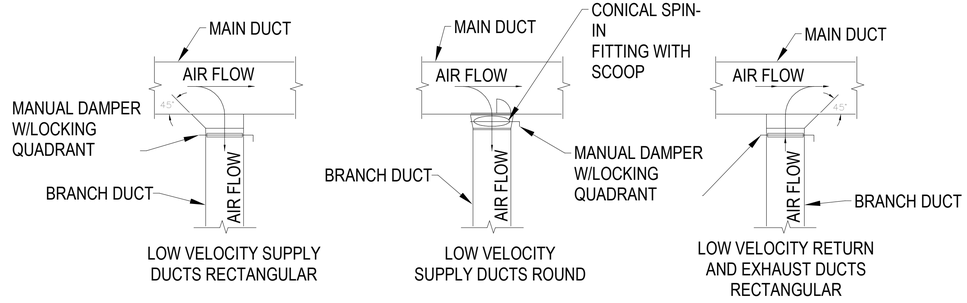
NOTE: PITCH HORIZONTAL PIPING MINIMUM 1/2" PER 10'-0" IN DIRECTION OF FLOW

2 REFRIGERANT - SPLIT SYSTEM PIPING
N.T.S.



NOTES:
1. HANGERS MUST NOT DEFORM DUCT SHAPE.
2. ATTACHMENTS TO OVERHEAD STRUCTURE SHALL BE MADE IN ACCORDANCE WITH STRUCTURAL ENGINEERS REQUIREMENTS AND WEIGHT LIMITATIONS. ALL ATTACHMENT METHODS TO STRUCTURE SHALL BE SUBMITTED TO STRUCTURAL ENGINEER FOR REVIEW.
3. HANGERS AND HANGER SPACING SHALL BE INSTALLED PER CHAPTER 5, HANGERS AND SUPPORTS OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

3 ROUND DUCT HANGER DETAIL
N.T.S.



4 TYPICAL BRANCH DUCT CONNECTIONS
N.T.S.

STATE OF OHIO
JOHN DAVID MILENIUS
E-56026
PROFESSIONAL ENGINEER
6-8-26

tec inc.
engineering & architecture
#953 Findenton Ave, STE 240
Dublin, OH 43017
614.267.4477
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD.	DATE
	06-08-2026	100% CD		
1	08/03/2026	DESIGN REVISIONS		

HVAC DETAILS

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO.
M-102

PROJ NO.: 25013
DATE: 06/08/2026

1/16" = 1'-0" 0 4" 8" 16'
1/8" = 1'-0" 0 2" 4" 8"
3/16" = 1'-0" 0 2" 4" 8"
1/4" = 1'-0" 0 1" 2" 4"
3/8" = 1'-0" 0 1" 2" 4"
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"

SECTION 23 05 00 – COMMON WORK RESULTS FOR HVAC

PART 1 GENERAL
1.1 SUBMITTALS
A. PRODUCT DATA: SUBMIT VALVES AND GAGES.
PART 2 PRODUCTS
2.1 PIPING
A. REFRIGERANT PIPING: COPPER TUBING, TYPE ACR HARD DRAWN, SILVER BRAZED.
2.2 VALVES
A. BALL VALVES
1. UP TO 2 INCHES: TWO PIECE, BRONZE BODY, STAINLESS STEEL BALL.
2.3 PIPE HANGERS
A. ALL SERVICES: CLEVIS TYPE CONFORMING TO MSS TYPE 1.
B. UPPER ATTACHMENTS: COMPATIBLE WITH TYPE OF STRUCTURE BEING USED. AT STEEL JOIST LOCATIONS ATTACH HANGERS TO TOP CHORD OF JOISTS.
2.5 HVAC IDENTIFICATION
A. VALVE TAGS: BRASS WITH STAMPED LETTERS AND BRASS "S" HOOKS. PROVIDE TYPE WRITTEN SCHEDULE OF VALVE TAGS AND LOCATIONS TO OWNER AT COMPLETION OF PROJECT.
B. PIPING IDENTIFICATION: SNAP ON PLASTIC MARKERS WITH SYSTEM NAME AND FLOW DIRECTION.
2.6 FIRESTOPPING
A. MANUFACTURERS:
1. DOW CORNING CORP.
2. HILTI CORP.
3. INTERNATIONAL PROTECTIVE COATING CORP.
4. 3M FIRE PROTECTION PRODUCTS.
5. SPECIFIED TECHNOLOGY, INC.
6. TREMCO, INC.
B. MATERIALS CONFORMING TO FLAME (F) AND TEMPERATURE (T) RATINGS REQUIRED BY LOCAL BUILDING CODE AND AS TESTED BY NATIONALLY ACCEPTED TEST AGENCIES ACCORDING TO ASTM E814 OR UL 1479 FIRE TESTS IN CONFIGURATION THAT IS REPRESENTATIVE OF FIELD CONDITIONS. DEGREE RATING MUST BE MINIMUM OF ONE (1) HOUR BUT NOT LESS THAN FIRE RESISTANCE OF ASSEMBLY BEING PENETRATED.
C. DO NOT USE FIRESTOP MATERIALS WHICH DISSOLVE IN WATER AFTER CURING.
D. DO NOT USE FIRESTOP MATERIALS WHOSE SHELF LIFE HAS EXPIRED.
PART 3 EXECUTION
3.1 INSTALLATION
A. PROVIDE DIELECTRIC CONNECTIONS WHEREVER JOINTING DISSIMILAR METALS.
B. REAM PIPE AND TUBE ENDS. REMOVE BURRS. BEVEL PLAIN END FERROUS PIPE.
3.2 INSTALLATION - FIRESTOPPING
A. INSTALL FIRESTOPPING AT THE FOLLOWING PENETRATIONS:
1. WHERE PENETRATIONS INCLUDING PIPING OR DUCTWORK WHICH PASS THROUGH ONE OR BOTH OUTER SURFACES OF FIRE-RATED FLOOR OR WALL.
2. WHERE PENETRATION OCCURS THROUGH STRUCTURAL FLOOR OR ROOF AND SPACE WOULD OTHERWISE AIN OPEN BETWEEN SURFACES OF PENETRATION AND EDGE OF ADJOINING STRUCTURAL FLOOR OR ROOF.
3. WHERE PENETRATION OCCURS THROUGH FIRE-RATED WALLS OR PARTITIONS OF HOLLOW-TYPE CONSTRUCTION, PROVIDE FIRESTOPPING TO COMPLETELY FILL SPACES AROUND PENETRATION, ON EACH SIDE OF WALL OR PARTITION.
4. AT SLEEVED PENETRATIONS, FIRESTOP ANNULAR SPACE, BETWEEN SLEEVE AND WALL OPENINGS.

SECTION 23 05 93 - TESTING, ADJUSTING, AND BALANCING FOR HVAC

PART 1 GENERAL
1.1 SUBMITTALS
A. FINAL REPORT: REQUIRED
1.2 REPORT FORMS: AABC NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE FORMS.
1.3 AIR HANDLING SYSTEMS: ADJUST FANS AND AIR DISTRIBUTION OUTLETS AND INLETS AIRFLOWS TO WITHIN PLUS OR MINUS 5 PERCENT OF DESIGN.

SECTION 23 07 00 - HVAC INSULATION

PART 1 GENERAL
1.1 SUBMITTALS
A. PRODUCT DATA: REQUIRED
B. SAMPLES: NOT REQUIRED.
PART 2 PRODUCTS
2.1 PIPE INSULATION
A. CELLULAR FOAM: FLEXIBLE, CELLULAR ELASTOMERIC, MOLDED OR SHEET.
B. PIPE INSULATION RATED FOR 0-1000 DEGREES F. WITH A "K" FACTOR OF 0.27 AT A MEAN TEMPERATURE OF 150 DEGREES F. REFER TO SCHEDULE FOR INSULATION REQUIRED THICKNESS.
C. INSULATION SHALL NOT CONTAIN ANY PBDE (POLYBROMINATED DIPHENL ETHERS) FLAME RETARDANTS.
D. JACKETS
1. PVC PLASTIC: ONE PIECE MOLDED TYPE FITTING COVERS AND SHEET MATERIAL, OFF-WHITE COLOR.
PART 3 EXECUTION
3.1 INSTALLATION
A. DUCT LINER: DUCT DIMENSIONS INDICATED ARE NET INSIDE DIMENSIONS; INCREASE DUCT SIZE TO ALLOW FOR INSULATION THICKNESS.
3.2 SCHEDULES

	PIPE SIZE	INSULATION THICKNESS
A. PIPING INSULATION	INCHES	INCHES
1. CONDENSATE PIPING FROM COOLING	ALL SIZES	0.5
2. REFRIGERANT SUCTION	ALL SIZES	0.5
3. REFRIGERANT HOT GAS	ALL SIZES	0.5

	INSULATION THICKNESS
B. DUCTWORK INSULATION	INCHES
1. FLEXIBLE GLASS FIBER	
SUPPLY OR OUTSIDE AIR INTAKE DUCTS	1.5
RETURN DUCTS	1.5
2. RIGID GLASS FIBER	
OUTSIDE AIR INTAKE DUCTS	1.5
3. DUCT LINER	
SUPPLY DUCTS	1.0
RETURN DUCTS	0.5

SECTION 23 09 00 – INSTRUMENTATION AND CONTROL FOR HVAC

PART 1 GENERAL
1.1 SYSTEM DESCRIPTION
A. DESIGN REQUIREMENTS: ELECTRIC SYSTEM INCLUDING CONTROL DEVICES, ACTUATORS, AND ELECTRIC ACCESSORIES.
1.2 SUBMITTALS
A. PRODUCT DATA: REQUIRED.
B. SHOP DRAWINGS: REQUIRED.
PART 2 PRODUCTS
2.1 CONTROL COMPONENTS
A. FURNISH MATERIALS AND EQUIPMENT OF STANDARD COMPONENTS, MANUFACTURED FOR USE IN CONTROL SYSTEMS AND NOT CUSTOM DESIGNED ESPECIALLY FOR THIS PROJECT. FURNISH COMPONENTS TESTED AND PROVEN IN ACTUAL USE.
B. FURNISH PRODUCTS TO ACCOMPLISH SEQUENCES OF OPERATION DESCRIBED IN PART 3.
C. CONTROL WIRING: WIRING IN ACCORDANCE WITH REQUIREMENTS OF DIVISION 26. MINIMUM WIRE SIZE TO BE 14 GAUGE.
PART 3 EXECUTION
3.1 INSTALLATION
A. AFTER COMPLETION OF INSTALLATION, TEST AND ADJUST CONTROL EQUIPMENT.
B. PROVIDE GUARDS ON THERMOSTATS IN ENTRANCES AND OTHER PUBLIC AREAS.
C. PROVIDE CONDUIT AND ELECTRICAL WIRING IN ACCORDANCE WITH APPROPRIATE REQUIREMENTS OF DIVISION 26.
3.2 SEQUENCE OF OPERATION:
A. FURNACES/AC UNITS AND CONDENSING UNITS SHALL CYCLE TO MAINTAIN THERMOSTAT SET POINTS (80°F/65°F, ADJUSTABLE). INTERLOCK OUTDOOR AIR DAMPER TO OPEN WHEN FURNACE IS OPERATING.
B. FAN EF-1 SHALL TURN ON WHEN A LIGHT IS TURNED ON IN RESTROOM.

SECTION 23 30 00 – HVAC AIR DISTRIBUTION

PART 1 GENERAL
1.1 SUBMITTALS
A. PRODUCT DATA: NOT REQUIRED.
B. SHOP DRAWINGS: NOT REQUIRED.
PART 2 PRODUCTS
2.1 DUCTWORK
A. MATERIALS
1. STEEL DUCTS: GALVANIZED STEEL SHEET, LOCK-FORMING QUALITY.
2. FLEXIBLE DUCTS: FABRIC SUPPORTED BY HELICALLY WOUND SPRING STEEL WIRE OR FLAT STEEL BANDS.
B. METAL DUCTWORK
1. FABRICATE AND SUPPORT IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.
2. CONSTRUCT T'S, BENDS, AND ELBOWS WITH RADIUS OF 1-1/2 TIMES WIDTH OF DUCT ON CENTER LINE OR PROVIDE TURNING VANES.
3. INCREASE DUCT SIZES GRADUALLY, NOT EXCEEDING 30 DEGREES DIVERGENCE AND 45 DEGREES CONVERGENCE.
2.2 DUCT ACCESSORIES
A. VOLUME CONTROL DAMPERS
1. FABRICATION: SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.
2. SINGLE BLADE DAMPERS: FABRICATE FOR DUCT SIZES TO 12 X 30 INCH.
3. QUADRANTS: PROVIDE LOCKING, INDICATING REGULATORS ON DAMPERS.
B. BACKDRAFT DAMPERS: FABRICATE MULTI-BLADE, PARALLEL ACTION GRAVITY BALANCED BACKDRAFT DAMPERS OF GALVANIZED STEEL OR EXTRUDED ALUMINUM, WITH CENTER PIVOTED BLADES LINKED TOGETHER.
C. FLEXIBLE DUCT CONNECTIONS: UL LISTED FIRE-RETARDANT NEOPRENE COATED WOVEN GLASS FIBER FABRIC TO NFPA 90A, APPROXIMATELY 3 INCHES WIDE, CRIMPED INTO METAL EDGING STRIP.
D. DUCT ACCESS DOORS
1. FABRICATE IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.
2. ACCESS DOORS WITH SHEET METAL SCREW FASTENERS ARE NOT ACCEPTABLE.
2.3 GRILLES, REGISTERS, AND DIFFUSERS
A. MANUFACTURER: TITUS OR SIMILAR BY ANEMOSTAT, KRUEGER, E. H. PRICE COMPANY OR NAILOR-HART.
B. GENERAL: GRILLE, REGISTER, AND DIFFUSER INFORMATION MARK, MODEL NUMBER, TYPE, SIZE, FINISH, AND ACCESSORY ITEMS ARE INDICATED IN SCHEDULE. LOCATIONS, TYPE, CFM, AND DIRECTIONS OF THROW (WHERE APPLICABLE) ARE INDICATED ON DRAWINGS.
C. DEFINITIONS: TERMS USED FOR GRILLES, REGISTERS, AND DIFFUSERS ARE AS FOLLOWS:
1. GRILLES: SAME STYLE AS REGISTERS BUT WITHOUT DAMPER.
2. REGISTERS: ITEMS LABELED AS REGISTERS ARE TO BE FURNISHED WITH OPPOSED BLADE DAMPERS.
D. FINISH: FURNISH GRILLES, REGISTERS AND DIFFUSERS WITH FACTORY APPLIED OFF-WHITE FINISH UNLESS NOTED OTHERWISE.
2.4 CENTRIFUGAL CEILING CABINET FANS
A. CENTRIFUGAL FAN UNIT: DIRECT DRIVE WITH GALVANIZED STEEL HOUSING LINED WITH 1/2 INCH ACOUSTIC INSULATION, MOTOR MOUNTED ON RUBBER-IN-SHEAR ISOLATORS, OUTLET DUCT COLLAR, GRAVITY BACKDRAFT DAMPER IN DISCHARGE.
B. DISCONNECT SWITCH.
C. VARIABLE AND ADJUSTABLE EC MOTOR.
D. MANUFACTURER: LOREN COOK MODEL MODEL GC OR SIMILAR BY GREENHECK, ACME, OR TWIN CITY FAN.
PART 3 EXECUTION
3.1 INSTALLATION
A. INSTALL BACKDRAFT DAMPERS ON DISCHARGE OF EXHAUST FANS.
B. CONNECT DIFFUSERS OR TROFFER BOOTS TO LOW PRESSURE DUCTS WITH 5 FEET MAXIMUM LENGTH OF FLEXIBLE DUCT.
C. INSTALL FLEXIBLE CONNECTIONS IMMEDIATELY ADJACENT TO EQUIPMENT IN DUCTS ASSOCIATED WITH FANS AND MOTORIZED EQUIPMENT.
D. INSTALL DUCT ACCESS DOORS FOR INSPECTION AND CLEANING BEFORE AND AFTER FILTERS, COILS & FANS.
E. CHECK LOCATION OF AIR OUTLETS AND INLETS AND MAKE NECESSARY ADJUSTMENTS IN POSITION TO CONFORM WITH ARCHITECTURAL FEATURES, SYMMETRY, AND LIGHTING ARRANGEMENT.
F. PROVIDE BALANCING DAMPERS ON DUCT TAKE-OFF TO DIFFUSERS, AND GRILLES AND REGISTERS.

SECTION 23 55 00 - FUEL FIRED HEATERS

PART 1 GENERAL
1.1 SUBMITTALS
A. PRODUCT DATA: REQUIRED.
B. SHOP DRAWINGS: REQUIRED.
1.2 MANUFACTURERS:
A. TRANE
B. CARRIER
C. LENNOX
PART 2 PRODUCTS
2.1 FORCED AIR FURNACES (FUR-1 & CU-1)
A. UNITS: SELF-CONTAINED, PACKAGED, FACTORY ASSEMBLED, PRE-WIRED UNIT CONSISTING OF CABINET, SUPPLY FAN, HIGH EFFICIENCY NATURAL GAS HEATING, EVAPORATOR COIL, CONTROLS, AIR FILTER AND ACCESSORIES
1. AIR FLOW CONFIGURATION: VERTICAL
2. HEATING: NATURAL GAS FIRED WITH ELECTRONIC PILOT IGNITION.
3. ELECTRIC REFRIGERATION: REFRIGERANT COOLING COIL AND OUTDOOR PACKAGE CONTAINING SCROLL COMPRESSOR, CONDENSER COIL AND CONDENSER FAN.
4. ACCESSORIES: COMBINED COMBUSTION AIR AND EXHAUST WALL TERMINATION KIT, SPARE FILTERS.
B. FURNACE REFRIGERATION PACKAGE
1. EVAPORATOR COIL.
2. AIR COOLED CONDENSER: COIL WITH DIRECT DRIVE PROPELLER FAN, GALVANIZED FAN GUARD, COMPRESSOR.
C. OUTDOOR CONDENSING UNIT:
1. CABINET: THE CASING SHALL BE FABRICATED OF GALVANIZED STEEL, BONDERIZED, FINISHED WITH AN ELECTROSTATIC APPLIED, THERMALLY FUSED ACRYLIC OR POLYESTER POWDER COATING FOR CORROSION PROTECTION. ASSEMBLY HARDWARE SHALL BE CADMIUM PLATED FOR WEATHER RESISTANCE. ASSEMBLY SHALL WITHSTAND LATERAL WIND GUST UP TO 155 MPH TO MEET APPLICABLE WEATHER CODES.
2. FAN: THE UNIT SHALL BE FURNISHED WITH A BELT DRIVE, HIGH PERFORMANCE PROPELLER TYPE FAN. THE FAN MOTOR SHALL BE MOUNTED WITH VIBRATION ISOLATION FOR QUIET OPERATION. OUTDOOR UNIT SOUND LEVEL SHALL NOT EXCEED 55 DBA.
D. COIL:
1. THE OUTDOOR UNIT COIL SHALL BE OF NONFERROUS CONSTRUCTION WITH LANCED OR CORRUGATED PLATE FINS ON COPPER TUBING.
2. THE COIL SHALL BE PROTECTED WITH AN INTEGRAL GUARD.
3. REFRIGERANT FLOW FROM THE OUTDOOR UNIT TO THE INDOOR UNIT SHALL BE INDEPENDENTLY CONTROLLED BY MEANS OF INDIVIDUAL ELECTRONIC LINEAR EXPANSION VALVES.
E. ADJUSTABLE ROOM THERMOSTAT WITH SYSTEM SELECTOR SWITCH AND FAN CONTROL SWITCH.
PART 3 EXECUTION
3.1 INSTALLATION
A. PIPE DRAIN FROM INDOOR FURNACE'S HEATING AC AND EVAPORATOR COOLING COILS TO FLOOR DRAIN.
B. MOUNT AIR COOLED CONDENSER-COMPRESSOR PACKAGE ON CONCRETE PAD.
C. PROVIDE FLEXIBLE DUCT CONNECTIONS ON INLET AND OUTLET FROM FURNACES

SECTION 23 70 00 – HEATING, VENTILATING, AND AIR CONDITIONING EQUIPMENT

PART 1 GENERAL
1.1 SUBMITTALS
A. SHOP DRAWINGS: REQUIRED.
PART 2 PRODUCTS
2.1 PACKAGED DUCTLESS AIR CONDITIONING UNITS (AC-1 & CU-2)
A. UNITS: MITSUBISHI, LENNOX OR CARRIER PACKAGED, SELF-CONTAINED, WALL MOUNTED CABINET, ELECTRIC REFRIGERATION SYSTEM, REMOTE TEMPERATURE CONTROLS.
B. CABINET: WALL MOUNTED ABOVE DOOR, ALLOW FOR APPROXIMATELY 4" MINIMUM ABOVE CABINET.
C. AIR SYSTEM: FAN:
1. THE INDOOR FAN SHALL BE AN ASSEMBLY WITH A TURBO FAN DIRECT DRIVEN BY A SINGLE MOTOR.
2. THE INDOOR FAN SHALL BE STATICALLY AND DYNAMICALLY BALANCED TO RUN ON A MOTOR WITH PERMANENTLY LUBRICATED BEARINGS.
3. THE INDOOR FAN SHALL CONSIST OF THREE (3) SPEEDS, LOW, MID, AND HIGH.
4. THE AUTO AIR SWING VANES SHALL BE CAPABLE OF AUTOMATICALLY SWINGING UP AND DOWN FOR UNIFORM AIR DISTRIBUTION.
D. HEATING: PROVIDED BY HEAT PUMP FUNCTIONALITY OR REVERSING VALVE OPERATION.
E. FILTER: RETURN AIR SHALL BE FILTERED BY MEANS OF A LONG-LIFE WASHABLE FILTER.
F. COIL:
1. THE INDOOR COIL SHALL BE OF NONFERROUS CONSTRUCTION WITH SMOOTH PLATE FINS ON COPPER TUBING. ALL TUBE JOINTS SHALL BE BRAZED WITH PHOS-COPPER OR SILVER ALLOY.
2. THE COILS SHALL BE PRESSURE TESTED AT THE FACTORY.
3. THE UNIT SHALL INCLUDE A CONDENSATE LIFT MECHANISM THAT WILL BE ABLE TO RAISE DRAIN WATER 19-11/16" INCHES ABOVE THE CONDENSATE PAN.
G. OUTDOOR HEAT PUMP/CONDENSING UNIT:
1. CABINET: THE CASING SHALL BE FABRICATED OF GALVANIZED STEEL, BONDERIZED, FINISHED WITH AN ELECTROSTATICALLY APPLIED, THERMALLY FUSED ACRYLIC OR POLYESTER POWDER COATING FOR CORROSION PROTECTION. ASSEMBLY HARDWARE SHALL BE CADMIUM PLATED FOR WEATHER RESISTANCE. ASSEMBLY SHALL WITHSTAND LATERAL WIND GUST UP TO 155 MPH TO MEET APPLICABLE WEATHER CODES.
2. FAN: THE UNIT SHALL BE FURNISHED WITH A DIRECT DRIVE, HIGH PERFORMANCE PROPELLER TYPE FAN. THE CONDENSER FAN MOTOR SHALL HAVE PERMANENTLY LUBRICATED BEARINGS. FAN SPEED SHALL BE SWITCHED AUTOMATICALLY ACCORDING TO THE NUMBER OF OPERATING INDOOR UNIT AND THE COMPRESSOR OPERATING FREQUENCY. THE FAN MOTOR SHALL BE MOUNTED WITH VIBRATION ISOLATION FOR QUIET OPERATION. OUTDOOR UNIT SOUND LEVEL SHALL NOT EXCEED 55 DBA.
H. COIL:
1. THE OUTDOOR UNIT COIL SHALL BE OF NONFERROUS CONSTRUCTION WITH LANCED OR CORRUGATED PLATE FINS ON COPPER TUBING.
2. THE COIL SHALL BE PROTECTED WITH AN INTEGRAL GUARD.
3. REFRIGERANT FLOW FROM THE OUTDOOR UNIT TO THE INDOOR UNITS SHALL BE INDEPENDENTLY CONTROLLED BY MEANS OF INDIVIDUAL ELECTRONIC LINEAR EXPANSION VALVES FOR EACH INDOOR UNIT.
I. COMPRESSOR:
1. THE COMPRESSOR SHALL BE A HIGH PERFORMANCE, HERMETIC, INVERTER DRIVEN, VARIABLE SPEED, DUAL ROTARY TYPE MANUFACTURED BY MITSUBISHI ELECTRIC CORPORATION.
2. THE COMPRESSOR MOTOR SHALL BE DIRECT CURRENT (DC) TYPE EQUIPPED WITH A FACTORY SUPPLIED AND INSTALLED INVERTER DRIVE PACKAGE.
3. THE OUTDOOR UNIT SHALL BE EQUIPPED WITH A SUCTION SIDE REFRIGERANT ACCUMULATOR.
4. THE COMPRESSOR WILL BE EQUIPPED WITH AN INTERNAL THERMAL OVERLOAD.
5. THE COMPRESSOR SHALL BE MOUNTED TO AVOID THE TRANSMISSION OF VIBRATION.
J. CONTROLS: PROVIDE WALL MOUNTED CONTROLLER, SECURED TO WALL.
K. ACCESSORIES, AS NOTED ON SCHEDULE..
2.2 AIR SYSTEM: CENTRIFUGAL FORWARD CURVED EVAPORATOR FAN WITH PERMANENT SPLIT CAPACITOR MOTOR, POSITIVE PRESSURE.
2.3 FILTERS: WASHABLE AND ACCESSIBLE.
2.4 CONDENSATE DRAIN: DRAIN PAN TO DIRECT CONDENSATE TO CONDENSER COIL FOR RE-EVAPORATION.
2.5 CONTROLS: THERMOSTAT: REMOTE MOUNTED AND ADJUSTABLE FOR OFF-HEAT-AUTO-COOL SWITCH.
PART 3 EXECUTION
3.1 INSTALLATION
A. INSTALL UNITS LEVEL AND PER MANUFACTURER'S RECOMMENDATIONS.
B. PIPE DRAIN FROM INDOOR EVAPORATOR COOLING COILS' CONDENSATE PUMP TO OUTDOOR SPLASH BLOCK.
C. MOUNT AIR COOLED CONDENSER-COMPRESSOR PACKAGE ON ROOF CURB
3.2 CLEANING
A. AFTER CONSTRUCTION IS COMPLETED, INCLUDING PAINTING, CLEAN EXPOSED SURFACES OF UNITS.
B. VACUUM CLEAN COILS AND INSIDE OF CABINETS.
C. TOUCH UP MARRED OR SCRATCHED SURFACES OF FACTORY FINISHED CABINETS, USING FINISH MATERIALS FURNISHED BY MANUFACTURER.
D. INSTALL NEW FILTERS IN UNITS AFTER SUBSTANTIAL COMPLETION.
3.3 DEMONSTRATION
A. DEMONSTRATE UNIT OPERATION AND MAINTENANCE FOR A MINIMUM OF 4 HOURS, OR AS REQUIRED BY OWNER.

SECTION 23 80 00 – DECENTRALIZED HVAC EQUIPMENT

PART 1 GENERAL
1.1 SUBMITTALS
A. PRODUCT DATA: REQUIRED.
B. SHOP DRAWINGS: REQUIRED.
PART 2 PRODUCTS
2.1 ELECTRIC BASEBOARD
A. ASSEMBLY: UL LABELED WITH TERMINAL BOX AND COVER, FACTORY MOUNTED DISCONNECT SWITCH, AND BUILT-IN CONTROLS.
B. HEATING ELEMENTS: ENCLOSED COPPER TUBE, ALUMINUM FINNED ELEMENT OF COILED NICKEL-CHROME RESISTANCE WIRE CENTERED IN TUBES AND EMBEDDED IN REFRACTORY MATERIAL.
C. ENCLOSURE: ENAMELED STEEL WITH BACK AND TOP OF ONE PIECE; FRONT PANEL, END PANEL, AND END CAPS.
D. CONTROL: BUILT-IN BI-METAL THERMOSTAT, FACTORY WIRED.
2.2 ELECTRIC UNIT HEATERS
A. ASSEMBLY: UL LABELED WITH TERMINAL BOX AND COVER, FACTORY MOUNTED DISCONNECT SWITCH, AND BUILT-IN CONTROLS.
B. HEATING ELEMENTS: ENCLOSED COPPER TUBE, ALUMINUM FINNED ELEMENT OF COILED NICKEL-CHROME RESISTANCE WIRE CENTERED IN TUBES AND EMBEDDED IN REFRACTORY MATERIAL.
C. CABINET: ENAMELED STEEL WITH REMOVED FRONT PANEL WITH INTEGRAL AIR OUTLET AND INLET GRILLES.
D. FAN: DIRECT DRIVE PROPELLER TYPE, WITH FAN GUARD.
E. MOTOR: PERMANENT SPLIT CAPACITOR WITH PERMANENTLY LUBRICATED BEARINGS.
F. CONTROL: SEPARATE FAN SPEED SWITCH AND THERMOSTAT HEAT SELECTOR SWITCH, THERMAL OVERLOAD.
PART 3 EXECUTION
3.1 INSTALLATION
A. LOCATE RADIATION HEATERS CENTERED UNDER WINDOWS OR ON WALLS. COORDINATE WITH ARCHITECTURAL TRADES FOR EXACT LOCATIONS.

STATE OF OHIO JOHN DAVID MILENIUS E-56036 PROFESSIONAL ENGINEER 6-8-26

tec inc. mechanical engineering & consulting
#953 Bridgedon Ave, STE 240
Dublin, OH 43017
(614) 267-4422
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD.	DATE:
		100% CD		
1	06-08-2026	DESIGN REVISIONS		
	08/03/2026			

HVAC SPECIFICATIONS

MCES 130075-64

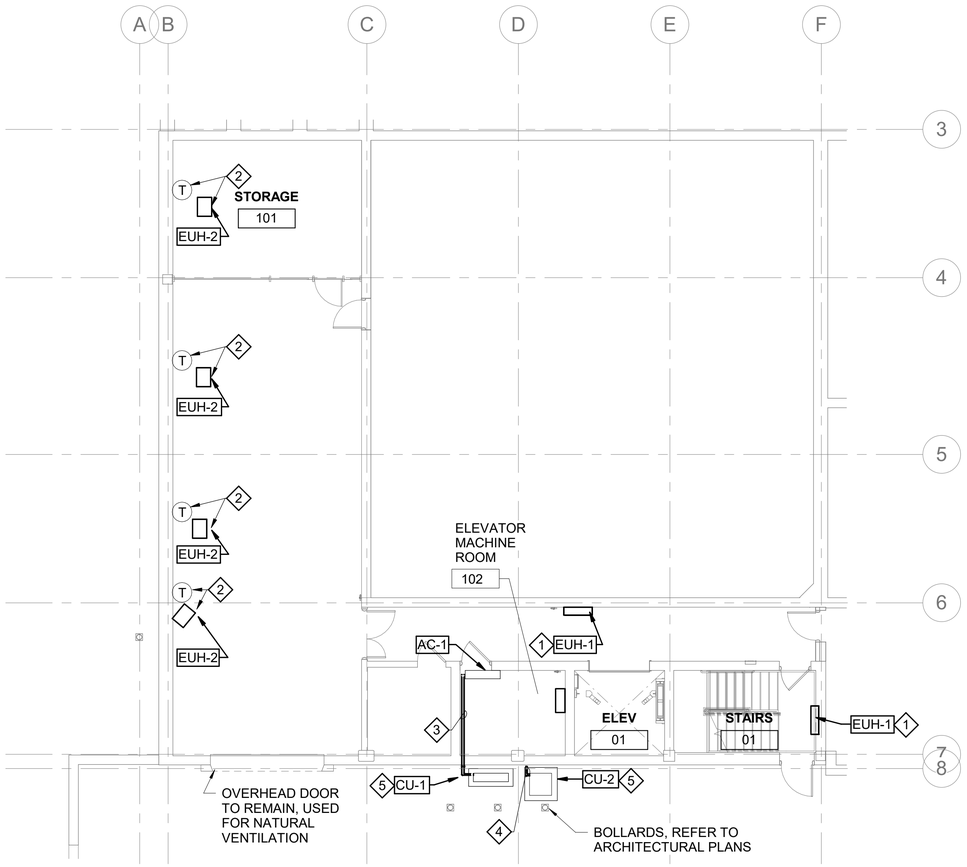
MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2350 SANDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO.
M-103

PROJ NO.: 25013
DATE: 06/08/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 HVAC FIRST FLOOR NEW WORK PLAN

1/8"=1'-0"

GENERAL NOTES:

REFER TO DRAWING M-100 FOR GENERAL NOTES

◇ PLAN NOTES

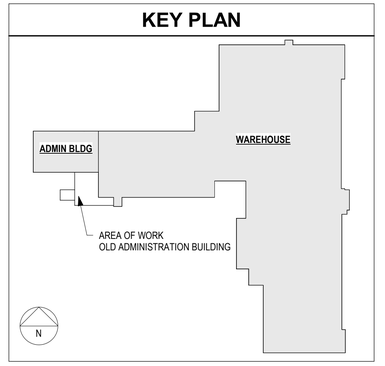
1. PROVIDE NEW WALL MOUNTED ELECTRIC HEATER.
2. PROVIDE NEW ELECTRIC UNIT HEATER.
3. REFRIGERANT PIPING SERVING WALL AC UNIT (MOUNTED ABOVE DOOR). EXTEND PIPING DOWN EXTERIOR WALL, SUPPORT EVERY 8' FROM WALL, THEN EXTEND TO EXTERIOR CONDENSING UNIT.
4. REFRIGERANT PIPING SERVING FURNACE ON THIRD FLOOR. RUN FROM FURNACE TO EXTERIOR CONDENSING UNIT. SECURE PIPING EVERY 8' TO EXTERIOR WALL.
5. INSTALL CONDENSING UNITS ON 4" HIGH CONCRETE PADS. CONCRETE PADS TO EXTEND 6" PAST CONDENSING UNIT ON ALL SIDES.

NATURAL VENTILATION ANALYSIS - FIRST FLOOR

ROOM NAME/ NUMBER	ROOM AREA (FT2)	4% OF ROOM AREA (FT2)	8% OF ROOM AREA (FT2)	OPENABLE AREA (FT2)	REMARKS
ROOM #101	1680	67.2	-	144	1 & 2
ELEVATOR MACHINE ROOM #102	100	-	8	-	1 & 2

REMARKS:
1. PER OBC MECHANICAL CODE - NATURAL VENTILATION SECTION 402, PARAGRAPH 402.1.
2. DOORS INCLUDED IN OPENABLE AREA.

KEY PLAN



STATE OF OHIO
JOHN DAVID MILENIUS
E-56036
PROFESSIONAL ENGINEER
6-8-26

#953 Fingerbottom Ave, STE 240
Dublin, OH 43017
614.267.4567
f 614.267.5617
www.tecinceng.com
engineering & surveying
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE:	DESCRIPTION
1	08/03/2026	DESIGN REVISIONS
	06-08-2026	100% CD

HVAC FIRST FLOOR NEW WORK PLAN

MCES 130075-64

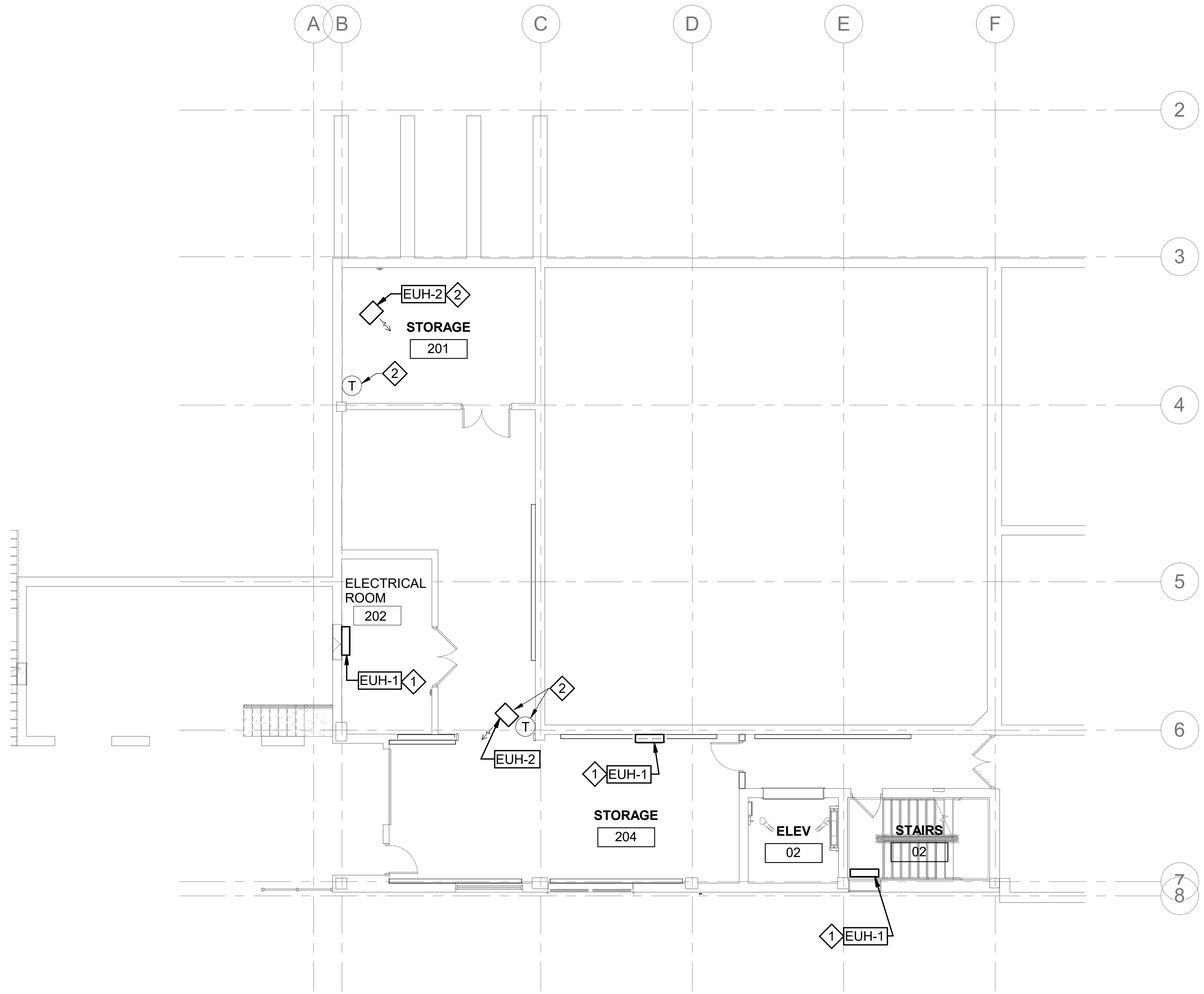
MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO.
M-200

PROJ NO.: 25013
DATE: 06/08/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 HVAC SECOND FLOOR NEW WORK PLAN
1/8"=1'-0"

GENERAL NOTES:

REFER TO DRAWING M-100 FOR GENERAL NOTES

◇ PLAN NOTES

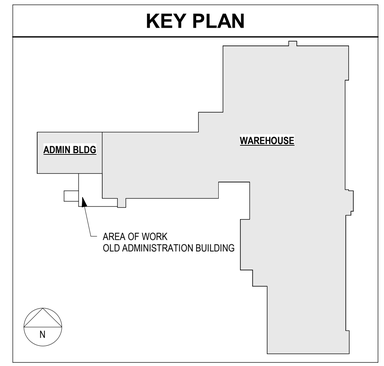
1. PROVIDE NEW WALL MOUNTED ELECTRIC HEATER.
2. PROVIDE NEW ELECTRIC UNIT HEATER.

NATURAL VENTILATION ANALYSIS - SECOND FLOOR

ROOM NAME/ NUMBER	ROOM AREA (FT2)	4% OF ROOM AREA (FT2)	8% OF ROOM AREA (FT2)	OPENABLE AREA (FT2)	REMARKS
ROOM # 201	1547.7	61.9	-	101	1 & 2
ELECTRICAL ROOM # 202	172.9	-	13.8	-	1 & 2

REMARKS:
1. PER OBC MECHANICAL CODE - NATURAL VENTILATION SECTION 402, PARAGRAPH 402.1.
2. DOORS INCLUDED IN OPENABLE AREA.

KEY PLAN



STATE OF OHIO
JOHN DAVID MILENIUS
E-56026
PROFESSIONAL ENGINEER
6-8-26

tec inc.
Engineering & Surveying
#PO Box/Anderson Ave, STE 240
Dublin, OH 43017
Cleveland, OH 44113
t 614.297.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION
	05-08-2026	100% CD
1	08/03/2026	DESIGN REVISIONS

APP'D: DATE:

HVAC SECOND FLOOR NEW WORK PLAN

MCES 130075-64

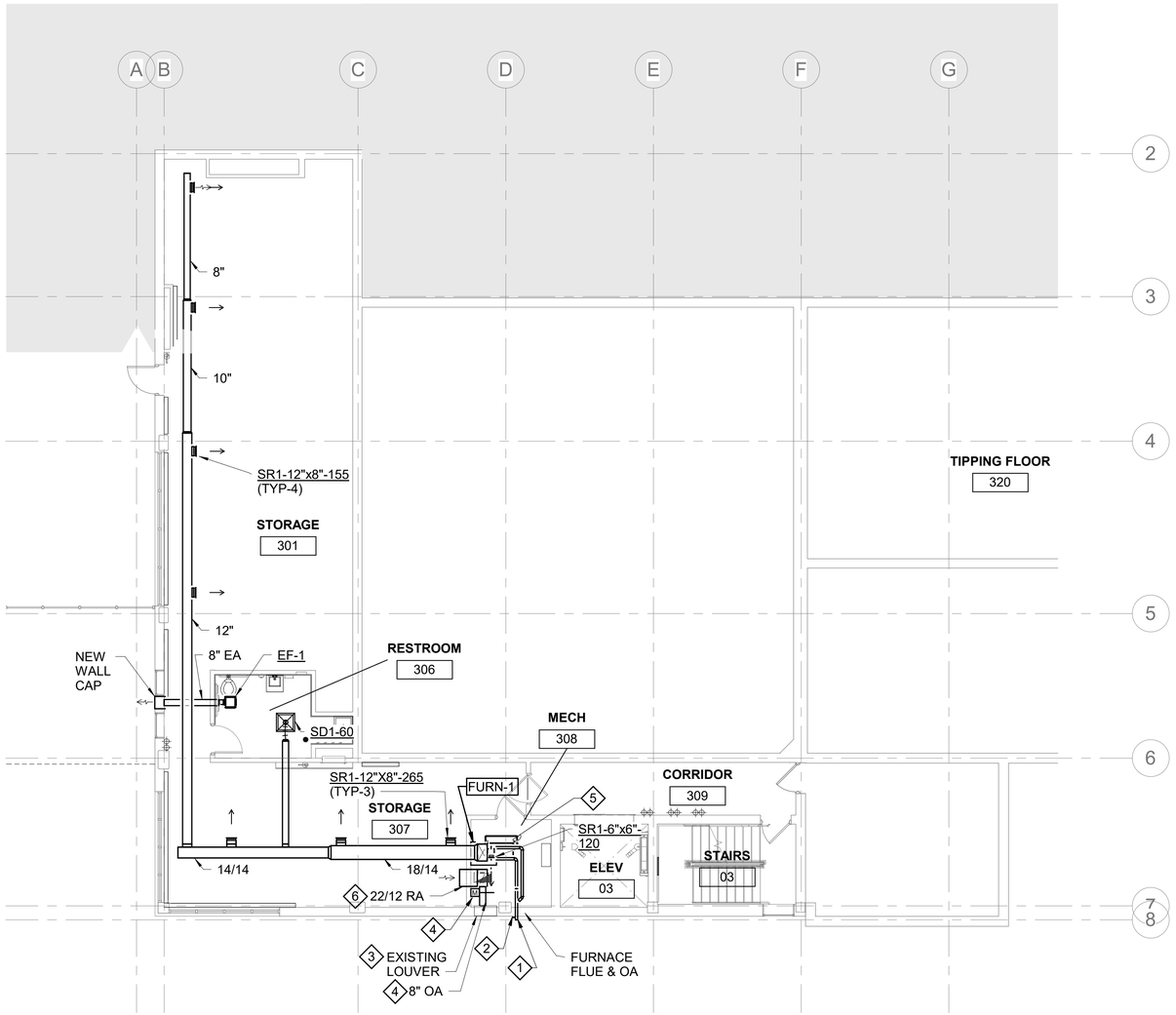
MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO.
M-201

PROJ NO.: 25013
DATE: 06/08/2026

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



1 HVAC THIRD FLOOR NEW WORK PLAN

1/8"=1'-0"

N

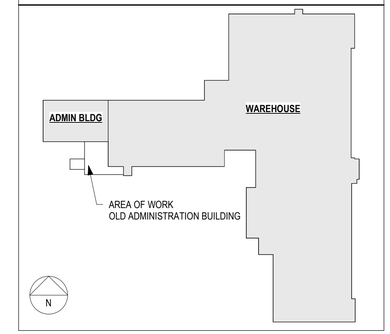
GENERAL NOTES:

REFER TO DRAWING M-100 FOR GENERAL NOTES

◇ PLAN NOTES

1. PROVIDE NEW COMBINATION VENT & COMBUSTION AIR INTAKE ON WALL. SEAL AROUND PIPING AS IT EXTENDS THRU WALL.
2. EXTEND REFRIGERANT PIPING THRU WALL. SEAL, WEATHER TIGHT, AROUND PIPING AS IT EXTENDS THRU WALL. RUN REFRIGERANT PIPING DOWN, ON EXTERIOR WALL TO CONDENSING UNIT ON GRADE. PROVIDE PROTECTIVE COVER OVER INSULATED REFRIGERANT PIPING.
3. PROVIDE 1.5" THICK RIGID INSULATION, BEHIND PORTION OF LOUVER THAT IS NOT BEING USED.
4. INSULATE OUTDOOR AIR DUCTWORK. PROVIDE MOTOR OPERATED DAMPER TO OPEN WHEN FURNACE IS OPERATING AND CLOSE WHEN FURNACE IS OFF.
5. EXTEND AIR CONDITIONING DRAIN PIPING TO EXISTING FLOOR DRAIN IN CENTER OF ROOM. SECURE PIPE TO FLOOR.
6. PROVIDE WIRE MESH OVER RETURN AIR OPENING.

KEY PLAN



STATE OF OHIO
JOHN DAVID MILENIUS
E-56026
PROFESSIONAL ENGINEER
6-8-26

#PE8 Tinderbox Ave, STE 240
Dublin, OH 43017
(614) 267-7827
f 614.267.5617
www.tecinceng.com
engineering & surveying
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION
	06-08-2026	100% CD
1	08/03/2026	DESIGN REVISIONS

HVAC THIRD FLOOR NEW WORK PLAN

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

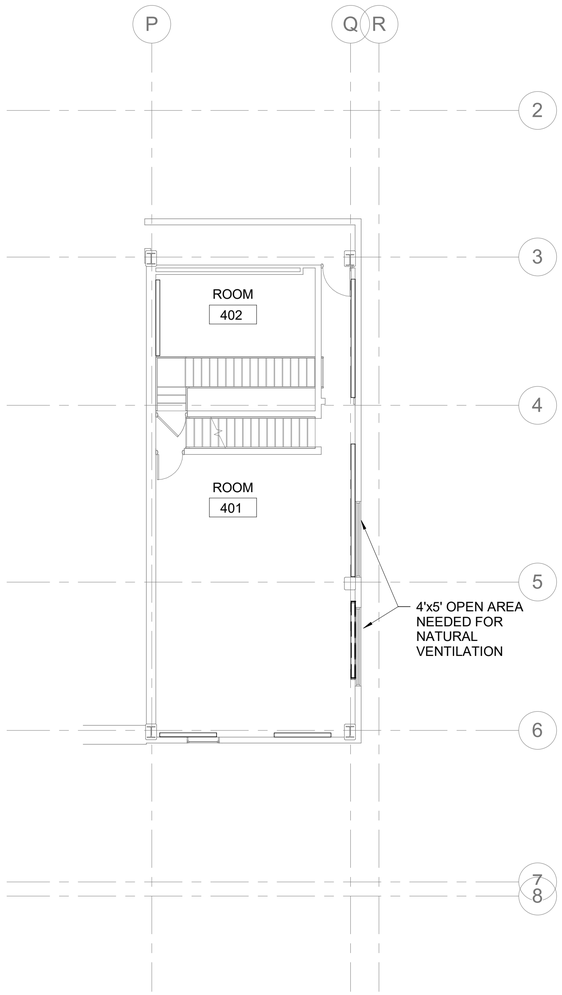
SHEET NO.

M-202

PROJ NO.: 25013

DATE: 06/08/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 HVAC FOURTH FLOOR NEW WORK PLAN
1/8"=1'-0"

GENERAL NOTES:

REFER TO DRAWING M-100 FOR GENERAL NOTES

PLAN NOTES

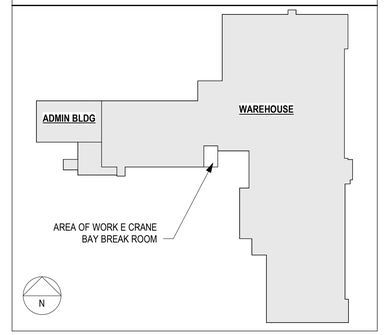
1. PROVIDE NEW WALL MOUNTED ELECTRIC HEATER.
2. PROVIDE NEW ELECTRIC UNIT HEATER.

NATURAL VENTILATION ANALYSIS - FOURTH FLOOR

ROOM NAME	ROOM AREA (FT2)	4% OF ROOM AREA (FT2)	8% OF ROOM AREA (FT2)	OPENABLE AREA (FT2)	REMARKS
ROOM # 401	609	24.4	-	40	1 & 2
ROOM # 402	147	-	11.7	-	1 & 2

REMARKS:
1. PER OBC MECHANICAL CODE - NATURAL VENTILATION SECTION 402, PARAGRAPH 402.1.
2. DOORS INCLUDED IN OPENABLE AREA.

KEY PLAN



STATE OF OHIO
JOHN DAVID MILENIUS
E-56036
PROFESSIONAL ENGINEER
6-8-26

tec inc.
engineering & surveying
#953 Lindenton Ave, STE 240
Dublin, OH 43017
(614) 267-4777
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION
	06-06-2026	100% CD
1	08/03/2026	DESIGN REVISIONS

HVAC FOURTH FLOOR NEW WORK PLAN

MCES 130075-64

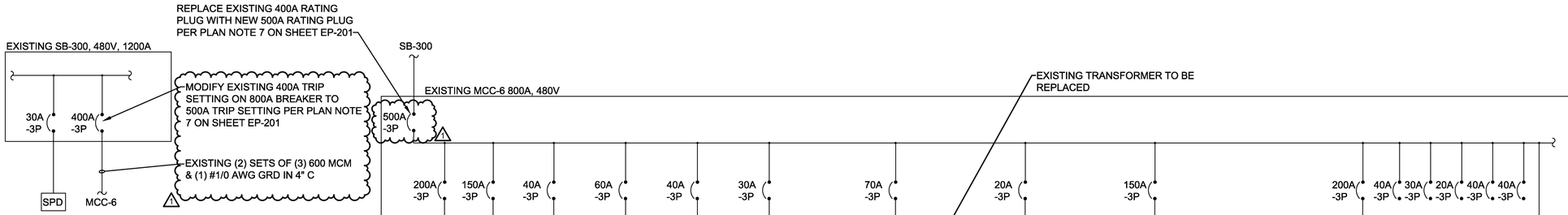
MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

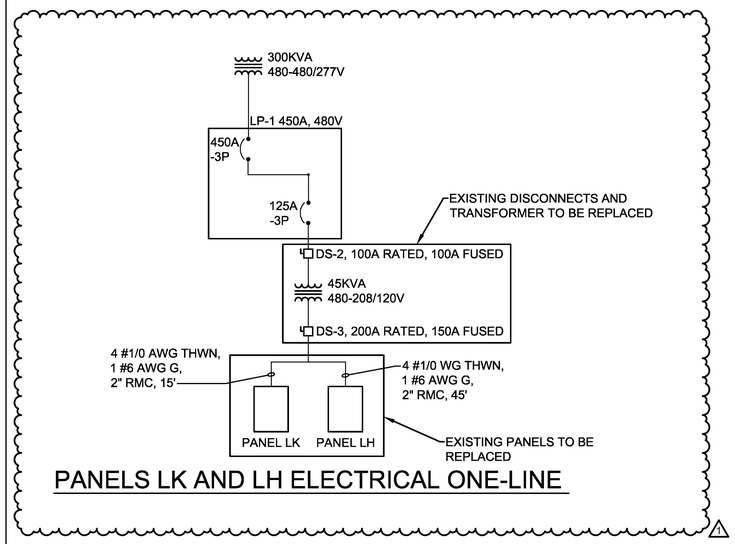
SHEET NO.
M-203

PROJ NO.: 25013
DATE: 06/08/2026

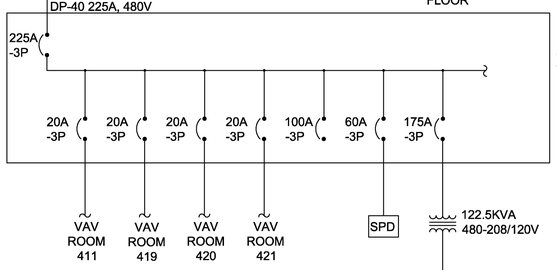
1/16" = 1'-0" 0 4' 8' 16' | 1/8" = 1'-0" 0 2' 4' 8' | 3/16" = 1'-0" 0 2' 4' 8' | 1/4" = 1'-0" 0 1' 2' 4' | 3/8" = 1'-0" 0 1' 2' 4' | 1/2" = 1'-0" 0 6" 1' 2' | 3/4" = 1'-0" 0 3" 6" 1' 2' | 1" = 1'-0" 0 3" 6" 1' 2' | 1 1/2" = 1'-0" 0 3" 6" 1' | 3" = 1'-0" 0 1" 2" 3" 6" 1' | 6" = 1'-0" 0 1" 2" 3" 6"

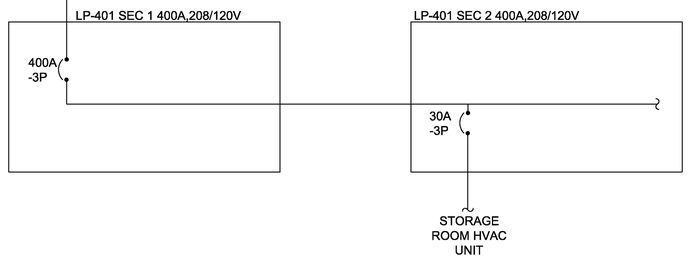


SB-300 PARTIAL ELECTRICAL ONE-LINE



PANELS LK AND LH ELECTRICAL ONE-LINE





MCC-6 ELECTRICAL ONE-LINE

LIGHTING FIXTURES

TYPE	DESCRIPTION	MOUNT	LAMPS	MANUFACTURER & REMARKS	
A	4', SUSPENDED LED STRIP LIGHT. COLD ROLLED STEEL HOUSING WITH WHITE POWDER COATING AND HIGH IMPACT END CAPS, 3500K LED'S, INTEGRAL 0-10V DIMMING DRIVER, PROVIDE WITH ALL REQUIRED MOUNTING HARDWARE.	SUSPENDED	LED; MIN DELIVERED LUMENS 5,800	METALUX	4AWS-L3C3-UNV-3500K-HI
B	WALL PACK LED CONFIGURABLE FIXTURE WITH SELECTABLE CCT LEDS, 80CRI MINIMUM, DIE-CAST ALUMINUM HOUSING WITH HINGED, REMOVABLE DIE-CAST ALUMINUM DOOR WITH BRONZE FINISH	8'-0" ABOVE GRADE	LED; MIN DELIVERED LUMENS 4,300-8,100	LUMARK	WPSLED15S
C	2'X4' LED CONFIGURABLE FLAT PANEL FIXTURE WITH SELECTABLE 3500K LEDS, 80CRI MINIMUM, L80>60,000 HOURS, 0-10V INTEGRAL DIMMING DRIVER, ALUMINUM HOUSING WITH WHITE POWDER COAT FINISH, FROSTED ACRYLIC LENS. PROVIDE WITH ALL REQUIRED MOUNTING HARDWARE.	RECESSED	LED; MIN DELIVERED LUMENS 3,000	METALUX	24-CGTX-35-L835
C1	2'X2' LED CONFIGURABLE FLAT PANEL FIXTURE WITH SELECTABLE 3500K LEDS, 80CRI MINIMUM, L80>60,000 HOURS, 0-10V INTEGRAL DIMMING DRIVER, ALUMINUM HOUSING WITH WHITE POWDER COAT FINISH, FROSTED ACRYLIC LENS. PROVIDE WITH ALL REQUIRED MOUNTING HARDWARE.	RECESSED	LED; MIN DELIVERED LUMENS 4,500	METALUX	22-CGTX-45-L835
D	4', WALL MOUNTED, LED STRIP LIGHT. COLD ROLLED STEEL HOUSING, IMPACT MODIFIED LINEAR FACETED REFRACTOR, 3000K LED'S, INTEGRAL 0-10V DIMMING DRIVER, INTEGRAL DUAL TECHNOLOGY OCCUPANCY SENSOR, FIXTURE TO DIM TO 10% WHEN SPACE IS UNOCCUPIED AND RAISE TO 100% WHEN OCCUPIED	SURFACE	LED; MIN DELIVERED LUMENS 3,000	LITHONIA	WL4-30L-EZB-LP830-NESPDT7-DIM10
F	2' WALL MOUNTED LED GASKETED VAPORTITE STRIP LIGHT FOR ELEVATOR PIT. FIXTURE TO HAVE 3500K LEDS	SURFACE	LED; MIN DELIVERED LUMENS 3,000	METALUX	2VT2-LD5-3-DR-UNV
EX	THERMOPLASTIC LED EXIT SIGN WITH TWO HEADS AND SEALED NICKEL CADMIUM EMERGENCY BATTERY	SURFACE	BY MFR	SURE-LITES BIG BEAM LITHONIA LIGHTING	APXH7RG EXKL LHQM LEDR
EM	LOW PROFILE, THERMOPLASTIC EMERGNECY LIGHTING UNIT, SELF DIAGNOSTIC TESTING	SURFACE	BY MFR	EXITRONIX EVENLITE COMPASS	QMR-WH TEBL3W-SD CU2SD

ACCEPTABLE EQUALS BY ACUITY BRANDS, LITHONIA, AND PHILIPS
ACCEPTABLE EQUAL CONTROLS BY NX CONTROLS, WATTSTOPPER, LUTRON

STATE OF OHIO ALEX E-87700 REGISTERED PROFESSIONAL ENGINEER 6/8/26

tec inc. engineering & management
#953 Bridgeton Ave, STE 240
Dublin, OH 43017
t 614.267.5437
f 614.267.5437
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION
	06-08-2026	100% CD
1	08/03/2026	DESIGN REVISIONS

ELECTRICAL ONE-LINES & LIGHTING FIXTURE SCHEDULE

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO.
E-100

PROJ NO.: 25013
DATE: 06/08/2026

1/16" = 1'-0" 0 4' 8' 16' | 1/8" = 1'-0" 0 2' 4' 8' | 3/16" = 1'-0" 0 2' 4' 8' | 1/4" = 1'-0" 0 1' 2' 4' | 3/8" = 1'-0" 0 1' 2' 4' | 1/2" = 1'-0" 0 6" 1' 2' | 3/4" = 1'-0" 0 3" 6" 1' 2' | 1" = 1'-0" 0 3" 6" 1' 2' | 1 1/2" = 1'-0" 0 3" 6" 1' | 3" = 1'-0" 0 1" 2" 3" 6" 1' | 6" = 1'-0" 0 1" 2" 3" 6"

ELECTRICAL SPECIFICATION NOTES:

A. WORK IS TO BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE CURRENT EDITIONS OF OBC, NEC, AND ALL LOCAL AUTHORITIES THAT HAVE JURISDICTION.

B. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND DETAILS TO FINISH THE WORK AS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM. ALL MATERIAL SHALL BE NEW AND UNDETERIORATED AND INSTALLED IN A WORKMANLIKE MANNER. WORK THAT IS UNACCEPTABLE TO THE ARCHITECT OR INSPECTION AGENCIES SHALL BE CORRECTED AT NO ADDITIONAL COST.

C. THE DRAWINGS ARE SCHEMATIC IN NATURE AND EXACT LOCATIONS SHALL BE DETERMINED BY FIELD CONDITIONS. SOME MINOR RELOCATIONS MAY BE NECESSARY FOR PROPER ACCESS TO EQUIPMENT FOR MAINTENANCE, TO SOLVE CONFLICTS, ETC. AND SHALL BE DONE AT NO ADDITIONAL COST.

D. PROVIDE ALL WIRING, CONDUIT, AND DISCONNECTS NECESSARY TO POWER ALL EQUIPMENT. MAKE ALL FINAL CONNECTIONS FOR COMPLETE OPERATING SYSTEMS. ALL WORK TO BE IN CONDUIT.

E. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL TURN OVER TO THE OWNER THE FOLLOWING ITEMS: TWO COPIES OF THE OPERATING AND MAINTENANCE MANUALS, CONTAINING A DESCRIPTION OF EACH SYSTEM, A COPY OF EACH SHOP DRAWING AND OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL ITEMS FURNISHED. A LETTER GUARANTEE AND ALL WARRANTIES. ALL BUILDING INSPECTION CERTIFICATES. "AS BUILT" DRAWINGS, NEATLY MARKED IN RED SHOWING ALL DEVIATIONS FROM THE PLANS.

F. PROVIDE SLEEVES FOR ALL CONDUITS PASSING THROUGH WALLS AND FLOORS. FILL SPACE BETWEEN CONDUIT SLEEVE AND WALL WITH MATERIALS NORMALLY USED IN CONJUNCTION WITH WALL CONSTRUCTION. SLEEVES THROUGH WALLS TO BE OF A LENGTH EQUAL TO WALL THICKNESS.

G. PROVIDE FIRESTOPPING ASSEMBLIES AT ALL WALL AND FLOOR PENETRATIONS THAT PROVIDE THE EQUIVALENT RATING OF THE STRUCTURE WHEN TESTED IN ACCORDANCE WITH ASTM E 814 AND ASTM E 119. LISTING IN THE CURRENT YEAR OF CLASSIFICATION BOOKS OF UL OR FM WILL BE CONSIDERED AS AN ACCEPTABLE TEST REPORT.

H. PROVIDE ALL ITEMS OF EQUIPMENT AND ACCESSORIES NECESSARY FOR A COMPLETE, ELECTRICALLY CONTINUOUS, METALLIC CONDUIT SYSTEM INSTALLED FOR ALL WIRING UNLESS NOTED OTHERWISE. MINIMUM CONDUIT SIZE TO BE 3/4" TRADE SIZE. LARGER SIZES AS NOTED ON DRAWINGS. MINIMUM FLEXIBLE CONDUIT SIZE TO BE 1/2" TRADE SIZE, ALLOWED ONLY FOR LIGHT FIXTURE WHIPS, MAXIMUM LENGTH TO BE 6'-0". PROVIDE ALL NECESSARY HANGERS, SUPPORT, SOLID METAL STRAPS, PULL BOXES, JUNCTION BOXES AND FITTINGS NOT INDICATED ON THE DRAWINGS BUT WHICH ARE REQUIRED FOR A COMPLETE AND PROPERLY INSTALLED CONDUIT SYSTEM. CONDUITS TO BE SUPPORTED FROM THE BUILDING STRUCTURE AND NOT FROM ITEMS OR SUPPORTS OF OTHER TRADES.

I. FULL WEIGHT RIGID STEEL METALLIC CONDUIT TO BE INSTALLED AT ALL LOCATIONS EXCEPT WHERE SPECIFIED OPTIONAL. INTERMEDIATE METAL CONDUIT (IMC) MAY BE PROVIDED WHERE ALLOWED BY CODE. CONTRACTOR MAY OPTION THE USE OF ELECTRICAL METAL TUBING (EMT) ONLY AT THE FOLLOWING LOCATIONS: INTERIOR PARTITIONS, EXPOSED WORK ON EXPOSED CEILINGS, EXPOSED WORK ON WALLS ABOVE 8' - 0".

M. FLEXIBLE CONDUIT OF MAXIMUM 6 FT. IN LENGTH IS ALLOWED FOR FINAL CONNECTIONS TO RECESSED LIGHT FIXTURES. FLEXIBLE CONDUITS SHALL HAVE A COPPER GROUNDING CONDUCTOR INSIDE THE CONDUIT.

N. WHERE NOT OTHERWISE RESTRICTED, METAL CLAD (MC) CABLE IS PERMITTED FOR BRANCH CIRCUITS ONLY AS FOLLOWS: WHERE ENCLOSED IN DRYWALL PARTITIONS OR CONCEALED ABOVE ACCESSIBLE CEILING FOR BRANCH CIRCUITS UP TO 20A. EXCEPTIONS: PROVIDE SINGLE CONDUCTOR BUILDING WIRE IN RACEWAY FOR CIRCUIT HOMERUN FROM FIRST OUTLET TO PANELBOARD, DO NOT INSTALL WHERE PROHIBITED FOR USE BY THE AUTHORITY HAVING JURISDICTION, DO NOT INSTALL WHERE EXPOSED TO VIEW OR WHERE EXPOSED TO DAMAGE OR IN DAMP, WET, OR CORROSIVE LOCATIONS. INSTALL MC CABLE IN ACCORDANCE WITH NECA 120. PROVIDE REQUIRED SUPPORT OF MC CABLE PER NEC

O. MC CABLE SHALL BE LISTED AND LABELED AS COMPLYING WITH UL 1569, AND LISTED FOR USE IN CLASSIFIED FIRESTOP SYSTEMS TO BE USED. INSULATION VOLTAGE RATING SHALL BE 600 V, TYPE THHN, THHN/THWN, OR THHN/THWN-2. PROVIDE DEDICATED NEUTRAL CONDUCTOR FOR EACH PHASE CONDUCTOR WHERE INDICATED OR REQUIRED. PROVIDE FULL-SIZE INTEGRAL EQUIPMENT GROUNDING CONDUCTOR. ARMOR TO BE STEEL, INTERLOCKED TAPE.

P. ALL RIGID CONDUIT ENTERING BOXES OR ENCLOSURES TO BE THREADED, LOCKNUTTED ON EACH SIDE OF ENCLOSURE. EXTREME CARE TO BE TAKEN TO COORDINATE LOCATION OF EXPOSED CONDUITS AND BOXES WITH PIPING AND DUCTWORK. CONDUITS TO BE INSTALLED ABOVE PLUMBING PIPING AND DUCTWORK WHEREVER POSSIBLE. JUNCTION BOXES TO BE ACCESSIBLE, COORDINATE WITH ALL TRADES.

Q. FURNISH AND INSTALL WIRING DEVICES AND ASSOCIATED ACCESSORIES AS INDICATED ON THE DRAWINGS AND REQUIRED FOR A COMPLETE INSTALLATION. DUPLEX 20 AMPERE, 125 VOLT CONVENIENCE OUTLETS TO BE SPECIFICATION GRADE 2 POLE, 3 WIRE GROUNDING TYPE, BACK OR SIDE WIRED, STRAIGHT BLADE, 2-CIRCUIT HUBBELL #HBL5362I, GROUND FAULT TYPE RECEPTACLE HUBBELL #GF-5352IA, SINGLE POLE TOGGLE SWITCH HUBBELL #HBL-1221. APPROVED EQUALS BY COOPER WIRING, OR PASS & SEYMOUR. PROVIDE COVERPLATES FOR ALL DEVICES. COORDINATE ALL COLOR SELECTION WITH ARCHITECT. INSTALL DEVICES GENERALLY WHERE INDICATED BY SYMBOL ON DRAWINGS, BUT IN COORDINATION WITH ALL OTHER TRADES.

R. MINIMUM CONDUCTOR SIZE FOR POWER BRANCH CIRCUITS TO BE NO. 12 AWG (NO. 10 AWG FOR DEVICES MORE THAN 100 FEET FROM PANEL AND NO. 8 AWG FOR DEVICES MORE THAN 200 FEET FROM PANEL). MINIMUM CONDUCTOR SIZE FOR CONTROL CIRCUITS TO BE NO. 14 AWG.

S. ALL GENERAL USE WIRE NO. 2 AND SMALLER TO BE NEC TYPE THWN 75 DEG. C, 600 VOLT, COPPER. NO. 10 AWG AND SMALLER MAY BE SOLID AND NO.8 AWG AND LARGER TO BE STRANDED. (CONTRACTOR IS CAUTIONED THAT 60 DEG. C. WIRE IS NOT ACCEPTABLE.) ALL INSTALLATIONS SHALL COMPLY WITH NEC 110.11. NEC TYPE THHN 90 DEG. WIRE TO BE USED FOR ALL HIGH AMBIENT TEMPERATURE LOCATION WIRING INCLUDED BUT NOT LIMITED TO BRANCH CIRCUIT CONNECTION TO AND WIRING IN LIGHT FIXTURE BALLAST CHANNELS. CONDUCTORS INSTALLED IN DAMP OR WET LOCATIONS, INCLUDING BELOW GRADE CONDUCTORS IN CONDUIT, SHALL HAVE INSULATION RATED FOR WET LOCATION AND COMPLY WITH NEC ARTICLE 310.10, C.

T. GROUPING OF MULTIPLE BRANCH CIRCUITS OR FEEDERS INTO A SINGLE CONDUIT IS NOT PERMITTED. CIRCUITS TO BE INSTALLED ON BASIS OF ONE (1) MULTIWIRE SINGLE PHASE OR ONE (1)3 PHASE CIRCUIT PER CIRCUIT RUN UNLESS SHOWN OTHERWISE. NOT MORE THAN THREE (3)120 VOLT CIRCUIT WIRES (3 PHASE, 4 WIRE)MAY BE SERVED WITH A SINGLE NEUTRAL AND IN NO INSTANCE MAY A SINGLE NEUTRAL BE USED WHEN (2) CIRCUIT WIRES ARE CONNECTED TO THE SAME PHASE BUS OF THE PANELBOARD.

U. ALL GROUNDED AND UNGROUNDED CONDUCTORS IN A MULTIWIRE BRANCH CIRCUIT SHALL BE GROUPED TOGETHER AND SECURED WITH WIRE TIES IN THE PANELBOARD FOR EASY IDENTIFICATION. PROVIDE IDENTIFIED HANDLE-TIE ON SINGLE POLE BREAKERS WITH MULTIWIRE BRANCH CIRCUITS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE LOCATION WHERE THE CIRCUIT ORIGINATES.

V. FURNISH AND INSTALL ALL ITEMS OF EQUIPMENT AND ACCESSORIES NECESSARY FOR AN EFFECTIVE GROUNDING SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 250. EQUIPMENT GROUNDING TO BE THE POSITIVE EARTHING OF ALL NON-CURRENT CARRYING METAL PARTS OF THE WIRING SYSTEM INCLUDING ALL APPLIANCE AND EQUIPMENT FURNISHED UNDER OTHER DIVISIONS OF THESE SPECIFICATIONS. SYSTEM GROUNDING SHALL BE THE POSITIVE EARTHING OF THE NEUTRAL CONDUCTOR OF THE SYSTEM AT THE SERVICE ENTRANCE AND THE SECONDARY NEUTRALS OF DRY TYPE TRANSFORMERS. THE GROUNDED CIRCUIT CONDUCTORS (NEUTRAL) OF THE SYSTEM TO BE ELECTRICALLY CONTINUOUS THROUGHOUT AND GROUNDED ONLY IN THE SERVICE ENTRANCE EQUIPMENT (SWITCHBOARD, PANEL, SWITCH, ETC.)

W. AN EQUIPMENT GROUNDING CONDUCTOR (GREEN GROUND WIRE) TO BE INSTALLED WITH ALL CIRCUITS OVER 100 VOLTS. MINIMUM SIZE #12 GREEN GROUND. THE EQUIPMENT GROUNDING CONDUCTOR TO CONNECT TO THE METALLIC CONDUIT SYSTEM IN EVERY ENCLOSURE (PANELBOARD, JUNCTION, OUTLET, SWITCH AND PULL BOX, AND ANY OTHER METALLIC ENCLOSURE). IN ALL BOXES GROUNDING CONDUCTOR TO BE CONNECTED TOGETHER AND PIGTAIL CONNECTED TO THE ENCLOSURE UNDER A SEPARATE SCREW IN THREADED GROUND TAP AND TO DEVICES WHERE THEY OCCUR. IN PANELBOARDS CONNECT TO THE GROUND BUS. IN NO INSTANCE MAY "GREEN GROUND" EQUIPMENT GROUNDS TO BE CONNECTED TO A NEUTRAL CONDUCTOR. IN THOSE INSTANCES WHERE "GREEN GROUNDS" ARE WIRED FROM A PANEL, THOSE GROUNDS TO TERMINATE AT THE PANELBOARD GROUND BUS. FLEXIBLE CONDUIT IS NOT TO BE CONSIDERED AS A GROUNDING PATH. ALL FLEXIBLE CONDUIT TO HAVE A GREEN GROUND WIRE INSIDE THE CONDUIT SIZED PER NEC TABLES.

X. INSTALL A GREEN PIGTAIL FROM GROUNDING LUG OF ALL GROUNDING TYPE OUTLETS TO OUTLET BOX SO THAT THE CONNECTION TO THE BOX IS POSITIVE EVEN WHEN THE DEVICE IS REMOVED TO 6 INCHES FROM THE BOX. IN NO INSTANCE MAY THE NEUTRAL CONDUCTOR SERVE AS AN EQUIPMENT GROUND.

Y. PROVIDE TYPE-WRITTEN, PANELBOARD DIRECTORY FOR ALL PANELBOARDS. PROVIDE INSTALLATION DATES ON THE DIRECTORIES. ROOM NUMBERS AS ASSIGNED MAY OR MAY NOT BE PER THE DRAWINGS. VERIFY WITH THE ARCHITECT PRIOR TO FINALIZING THE DIRECTORIES.

Z. PROVIDE ENGRAVED NAMEPLATES FOR EACH ITEM OF ELECTRICAL DISTRIBUTION EQUIPMENT.

AA. PROVIDE COMPLETE LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO LAMPS, SOCKETS, BALLASTS, REFLECTORS, LENSES, HOUSINGS BOXES, SUPPORTS, ACCESSORIES AND OTHER COMPONENTS REQUIRED FOR A COMPLETE OPERATING SYSTEM. ALL LAMPS TO BE THE SAME COLOR TEMPERATURE. REPLACE ANY LAMPS THAT HAVE FAILED PRIOR TO TURN-OVER TO THE OWNER.

AB. PANELBOARDS, TRANSFORMERS, DISCONNECTS, AND OTHER POWER DISTRIBUTION EQUIPMENT SHALL BE PROVIDED FROM ONE MANUFACTURER WHEREVER POSSIBLE. APPROVED MANUFACTURERS ARE SIEMENS/ITE, SQUARE D, GENERAL ELECTRIC, OR CUTLER HAMMER. CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE, WITH INTERRUPTING RATINGS EQUAL TO OR GREATER THAN FAULT CURRENTS AVAILABLE AT THE POINT OF SERVICE, 10 KAIC MINIMUM FOR 208Y/120 VOLT SYSTEMS; 14 KAIC MINIMUM FOR 480Y/277 VOLT SYSTEMS. OTHER CIRCUIT BREAKER RATINGS SUCH AS HACR, HID, SWD, GFCI AND SHUNT-TRIP FEATURES SHALL BE PROVIDED WHERE REQUIRED BY CODE OR AS INDICATED ON THE DRAWINGS. BALANCE THE LOAD ON EACH PANEL AND DISTRIBUTION SYSTEM INSTALLED.

AC. BRANCH CIRCUIT PANELS SHALL BE FLUSH OR SURFACE MOUNTED AS INDICATED, LOCKABLE AND KEYED ALIKE, AND SHALL HAVE A DOOR-IN-DOOR COVER. IF MULTI-WIRE BRANCH CIRCUITS ARE INSTALLED, THE CIRCUITS SHALL BE PROVIDED WITH A DISCONNECTING MEANS IN ACCORDANCE WITH N.E.C. REQUIREMENTS, SUCH AS APPROVED "HANDLE TIES" OR MULTI-POLE CIRCUIT BREAKERS. BUSSING FOR PANELBOARDS OR SWITCHBOARDS SHALL BE COPPER. CIRCUIT BREAKERS SERVING FIRE ALARM EQUIPMENT BRANCH CIRCUITS SHALL BE PROVIDED WITH A RED DISCONNECT HANDLE .

AD. FUSIBLE AND NON-FUSED DISCONNECT SWITCHES SHALL BE UL LISTED, HEAVY DUTY WITH QUICK MAKE/ QUICK BREAK OPERATION, WITH A NEMA 1 RATING (INTERIOR) OR NEMA 3R RATING (EXTERIOR) UNLESS OTHERWISE NOTED OR REQUIRED BY CODE. SWITCHES TO HAVE A DUAL COVER INTERLOCK SO THAT THE SWITCH CANNOT BE ACCIDENTALLY OPENED WHEN IN THE "ON" POSITION. HANDLE POSITION TO BE MARKED "ON - OFF". INSTALL SAFETY SWITCHES AS SHOWN ON DRAWINGS, TOP AT 6' - 0". COORDINATE EXACT SWITCH LOCATION WITH EQUIPMENT , DUCTWORK, PIPING, ETC. TO ENSURE CODE REQUIRED CLEARANCES AND ACCESSIBILITY.

AE. FUSES SHALL BE DUAL ELEMENT- TIME DELAY; SERVICE ENTRANCE AND FEEDERS LARGER THAN 600A: CLASS L, TIME DELAY; FEEDERS UP TO 600A: CLASS RK1, TIME DELAY. BUSSMAN TYPE LPN-RK (250 VOLT) OR LPS-RK (600 VOLT) FOR 600 AMPERES AND BELOW, AND BUSSMAN TYPE KRP-C ABOVE 600 AMPERES. EQUIVALENT FUSES BY FERRAZ-SHAWMUT OR LITTELFUSE ARE ACCEPTABLE. INSTALL FUSES IN FUSE CLIPS WHERE REQUIRED. FUSES SHALL NOT BE INSTALLED IN ANY EQUIPMENT UNTIL IT IS READY TO BE ENERGIZED.

AF. TRANSFORMERS SHALL BE D.O.E. 2016 COMPLIANT, UL LISTED. TRANSFORMERS TO BE AIR COOLED, TWO WINDING, INSULATED, LOW SOUND LEVEL TRANSFORMERS. COILS TO BE CONTINUOUS WOUND WITH COPPER WIRE AND HAVE CLASS 220 DEG. C. INSULATION SYSTEM. AVERAGE TEMPERATURE RISE NOT TO EXCEED 115 DEG. C. AT 40 DEG. C. AMBIENT WITH 100 % OF RATED SECONDARY LOAD CONNECTED. ALL TRANSFORMERS TO HAVE (2) 2½% FULL CAPACITY TAPS ABOVE NORMAL AND 2 OR 4 (BASED ON TRANSFORMER SIZE) 2½ MOUNTED TRANSFORMERS TO BE MOUNTED ON 4 INCH HIGH CONCRETE PAD. SIZE OF PAD TO EXCEED TRANSFORMER DIMENSIONS BY 2" ON EACH SIDE.

AG. COORDINATE THE ELECTRICAL WORK WITH ALL OTHER TRADES ON SITE, INCLUDING CORE DRILL LOCATIONS AND FEEDER ROUTINGS. PROVIDE LAYOUT DRAWINGS FOR ELECTRICAL DISTRIBUTION ROOMS AND CLOSETS AND SUBMIT COPIES TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL BEFORE ROUGHING-IN CONDUITS AND EQUIPMENT.

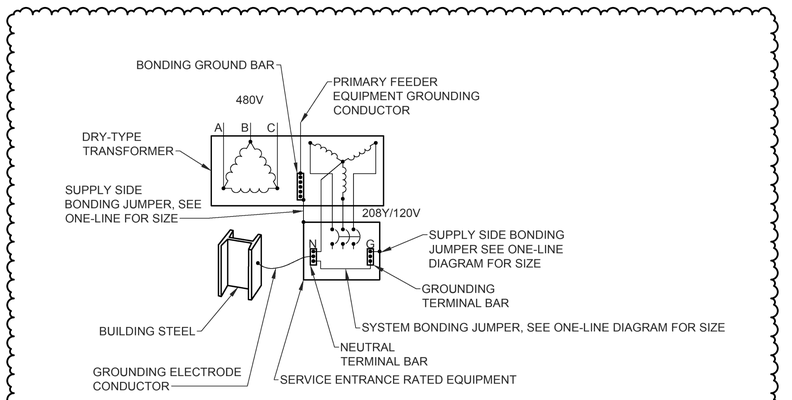
AH. MOUNTING HEIGHTS OF DEVICES ARE AS INDICATED ON THE PLANS, OR AS SHOWN ON THE ARCHITECTURAL INTERIOR ELEVATIONS. OUTLET BOXES FOR DEVICES SHALL NOT BE MOUNTED BACK-TO-BACK IN STUD WALL CONSTRUCTION. ADJACENT DEVICES SHALL BE INSTALLED IN GANGED BOXES WITH COMMON COVER PLATES WHEREVER POSSIBLE. UNLESS OTHERWISE NOTED, RECEPTACLES SHALL BE MOUNTED VERTICALLY, WITH THE GROUND PIN ABOVE THE PHASE AND NEUTRAL PIN.

AI. ALL BOXES AND CONDUITS SHALL BE CONCEALED IN FINISHED AREAS OF NEW CONSTRUCTION. CONDUIT SYSTEMS SHALL BE SUPPORTED FROM THE STRUCTURE, INDEPENDENT OF DUCTWORK AND OTHER TRADES. HANGERS, STRAPS AND CLAMPS SHALL BE APPROVED FOR THE PURPOSE. JUNCTION BOXES, OUTLET BOXES AND PULL BOXES SHALL BE LOCATED IN ACCESSIBLE AREAS AND SHALL BE PERMANENTLY MARKED ACCORDING TO THE CIRCUIT OR SYSTEM SERVED.

AJ. SUSPENDED CEILING SYSTEMS, INCLUDING THE ASSOCIATED SUPPORT WIRES, SHALL NOT BE USED FOR CONDUIT SUPPORT. CONDUITS SHALL NOT INTERFERE WITH CEILING TILE INSTALLATION OR REMOVAL AND SHALL NOT REST ON OR BE ATTACHED TO THE T-BARS OF THE SYSTEM.

ELECTRICAL SYMBOL LIST

- ITEMS SHOWN LIGHTLY ARE EXISTING.
- ITEMS SHOWN DASHED ARE TO BE REMOVED OR RELOCATED.
- ITEMS SHOWN BOLD ARE NEW.
- A — LED OR FLUORESCENT CEILING FIXTURE, SURFACE OR STEM MOUNTED FIXTURE, UPPERCASE LETTER AT FIXTURE INDICATES FIXTURE TYPE, SEE FIXTURE SCHEDULE.
- COVE LIGHT FIXTURE OR LED LINEAR LIGHT FIXTURE
- LED OR FLUORESCENT RECESSED CAN FIXTURE
- $D — SINGLE POLE 20 AMP. TOGGLE SWITCH. 'D' INDICATES 0-10V DIMMING. '3' INDICATES A 3 WAY SWITCH.
- DUPLEX 20 AMP. 120V. GROUNDING TYPE CONVENIENCE OUTLET.
- QUAD 20 AMP. 120V. GROUNDING TYPE CONVENIENCE OUTLET.
- GROUND FAULT INTERRUPTER RECEPTACLE.
- JUNCTION BOX.
- SPECIAL RECEPTACLE - SEE RESPECTIVE NOTE
- A/6 — CONDUIT RUN CONCEALED IN CEILING OR WALL. ARROWS INDICATE HOME RUN TO PANELBOARD. LETTERS AND NUMBERS INDICATE PANELBOARD AND CIRCUIT NUMBER.
- PANELBOARD (SEE PANEL SCHEDULE FOR VOLTAGE)
- 2-PORT DATA OUTLET LOCATION - SEE RESPECTIVE NOTE
- EMERGENCY EXIT SIGN
- DISCONNECT SWITCH
- SECURITY CAMERA DEVICE
- CARD READER / ACCESS CONTROL DEVICE
- MANUAL PULL STATION DEVICE
- AUDIO/VISUAL FIRE ALARM DEVICE
- EMERGENCY EGRESS LIGHTING DEVICE
- D — WALL MOUNTED OCCUPANCY SENSOR. 'D' INDICATES 0-10V DIMMING.



SEPARATELY DERIVED SYSTEM GROUNDING DETAIL
NTS

1

STATE OF OHIO — ALEX [illegible] — E-87700 — REGISTERED PROFESSIONAL ENGINEER — 6/8/26

4915 Bradenton Ave. STE 240
Dublin, OH 43017
t 614.457.3637
f 614.457.5477
www.tecinc.com
engineering & energy
cleveland | columbus | pittsburgh
tec inc.

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D	DATE
	06-08-2026	100% CD		
1	08/03/2026	DESIGN REVISIONS		

ELECTRICAL SPECIFICATIONS

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO.

E-101

PROJ NO.: 25013

DATE: 06/08/2026

1/16" = 1'-0" 0 4' 8' 16' | 1/8" = 1'-0" 0 2' 4' 8' | 3/16" = 1'-0" 0 2' 4' 8' | 1/4" = 1'-0" 0 1' 2' 4' | 3/8" = 1'-0" 0 1' 2' 4' | 1/2" = 1'-0" 0 6" 1' 2' | 3/4" = 1'-0" 0 3" 6" 1' 2' | 1" = 1'-0" 0 3" 6" 1' 2' | 1 1/2" = 1'-0" 0 3" 6" 1' | 3" = 1'-0" 0 1" 2" 3" 6" 1' | 6" = 1'-0" 0 1" 2" 3" 6"

PANEL: LK — LOCATION: ROOM 311

VOLTS: 120 /208 — MAIN LUGS: 50A — * GFI TYPE
NEUTRAL: YES — MAIN BREAKER: 50A — ** LOCK ON CLIP
GROUND BUS: YES — SUB FEED: NO
MOUNTING: SURFACE — NOTE:

LOAD	BRKR	WIRE	KW	#	A	B	C	#	KW	WIRE	BRKR	LOAD
AIR COMPRESSOR	30/2			1				2			20/1	RECEPTACLE
----	--			3				4			20/1	LIGHTS
SPARE	20/1			5				6			20/2	SPARE
SPARE	20/1			7				8			--	----
RECEPTACLE ON TOP	20/1			9				10				SPACE
SPACE				11				12				SPACE
SPACE				13				14				SPACE
SPACE				15				16				

CONNECTED KW: A 0.00, B 0.00, C 0.00 — CONNECTED AMPS: A 0.0, B 0.0, C 0.0

LOAD SUMMARY:	(L)IGHTS	(R)ECPT	(M)OTOR	(A)PPLIANCE	(O)THER	PHASE TOTAL:
KW:	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0
					TOTAL:	0.0

Panel Name	Added Load (KW)	REQUIRED MAX EXISTING DEMAND LOAD (KW)	(A)
PANEL LA	6.3	22.52	62.51
PANEL LB	3.6	25.22	70.01
PANEL LE	0.7	28.12	78.06
PANEL LH	1.4	27.42	76.11

CONTRACTOR SHALL CONFIRM THAT THE ADDED LOAD TO EACH PANEL WILL NOT OVERLOAD THE PANEL. EACH PANEL SHALL NOT HAVE AN EXISTING DEMAND LOAD GREATER THAN THE LOADS DETAILED ABOVE SO THAT THE ADDED LOAD WILL NOT INCREASE THE NEW DEMAND LOAD TO MORE THAN 28.8 KW (80A).

PANEL: LE — LOCATION: ROOM 306

VOLTS: 120 /208 — MAIN LUGS: 100A — * GFI TYPE
NEUTRAL: YES — MAIN BREAKER: NA — ** LOCK ON CLIP
GROUND BUS: YES — SUB FEED: NO
MOUNTING: RECESSED — NOTE:

	LOAD	BRKR	WIRE	KW	#	A	B	C	#	KW	WIRE	BRKR	LOAD	
	BOILER	20/1			1				2			20/1	RECEPTACLE TIME CLOCK	
	BOILER	20/1			3				4			20/1	RECEPTACLE COUNTER TOP	
	HOT WATER HEATER	20/1			5				6			20/1	LIGHTS 301-303	
	LIGHTS 305-310	20/1			7				8			40/2	RANGE TOP	
	WATER COOLER	20/1			9				10			--	----	
	LIGHTS 304-306	20/1			11				12			20/1	SIDE DOOR OUTSIDE LIGHT	
	RECETACLE ROOM	20/1			13				14		12	20/1	ROOM 308 AND CORRIDOR RECEPTCLES	
	EXHAUST FAN	20/1			15				16	0.30	12	20/1	EF-1	M
	RECEPTACLE 310	20/1			17				18			20/1	VENDING MACHINE	
R	ROOM 301 RECEPTACLES	20/1	12		19				20	0.36	12	20/1	RESTROOM RECEPTACLES	R

CONNECTED KW: A 0.36, B 0.30, C 0.00 — CONNECTED AMPS: A 3.0, B 2.5, C 0.0

LOAD SUMMARY:	(L)IGHTS	(R)ECPT	(M)OTOR	(A)PPLIANCE	(O)THER	PHASE TOTAL:
KW:	0.0	0.4	0.0	0.0	0.0	0.4
	0.0	0.0	0.3	0.0	0.0	0.3
	0.0	0.0	0.0	0.0	0.0	0.0
					TOTAL:	0.7

PANEL: LH — LOCATION: ROOM 413

VOLTS: 120 /208 — MAIN LUGS: 100A — * GFI TYPE
NEUTRAL: YES — MAIN BREAKER: 100A — ** LOCK ON CLIP
GROUND BUS: YES — SUB FEED: NO
MOUNTING: RECESSED — NOTE:

	LOAD	BRKR	WIRE	KW	#	A	B	C	#	KW	WIRE	BRKR	LOAD	
	LIGHTS	20/1			1				2			20/1	LIGHTS 125 PAMP ROOM	
	LIGHTS 125 CENTER ROW	20/1			3				4	1.44	12	20/1	ROOM 413 RECEPTACLES	R
	RECEPTACLE	20/1			5				6			20/1	RECEPTACLE ON STAIRS	
	RECEPTACLE ON STAIRS	20/1			7				8			20/1	RECEPTACLE ON STAIRS	
	STAIRWAY TO CRANE REPAIR	20/1			9				10			20/1	LIGHTS HALLWAY & TOLITS EX FAN	
	EXISTING LOAD	20/1			11				12			20/1	BOILER HEATER	
	OFFICE LIGHTS	20/1			13				14			20/1	DRIVERS LOUNGE	
	AC	20/1			15				16			20/1	OUTSIDE LIGHT LOWER WALL	
	EXISTING LOAD	20/1			17				18			20/1	NEW TIME CLOCK	
	EXISTING LOAD	20/1			19				20			20/1	EXISTING LOAD	
	EXISTING LOAD	20/1			21				22			20/1	EXISTING LOAD	
	EXISTING LOAD	20/1			23				24			20/1	EXISTING LOAD	
	EXISTING LOAD	20/1			25				26			20/1	EXISTING LOAD	
	EXISTING LOAD	20/1			27				28			20/2	EXISTING LOAD	
	EXISTING LOAD	20/1			29				30			--	----	

CONNECTED KW: A 0.00, B 1.44, C 0.00 — CONNECTED AMPS: A 0.0, B 12.0, C 0.0

LOAD SUMMARY:	(L)IGHTS	(R)ECPT	(M)OTOR	(A)PPLIANCE	(O)THER	PHASE TOTAL:
KW:	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	1.4	0.0	0.0	0.0	1.4
	0.0	0.0	0.0	0.0	0.0	0.0
					TOTAL:	1.4

PANEL: LB — LOCATION: CORRIDOR 207

VOLTS: 120 /208 — MAIN LUGS: 100A — * GFI TYPE
NEUTRAL: YES — MAIN BREAKER: NA — ** LOCK ON CLIP
GROUND BUS: YES — SUB FEED: NO
MOUNTING: RECESSED — NOTE:

	LOAD	BRKR	WIRE	KW	#	A	B	C	#	KW	WIRE	BRKR	LOAD	
	EXISTING LOAD	20/1			1				2			20/1	EXISTING LOAD	
	EXISTING LOAD	20/1			3				4			20/1	EXISTING LOAD	
	EXISTING LOAD	20/1			5				6			20/1	EXISTING LOAD	
	EXISTING LOAD	20/1			7				8			20/1	EXISTING LOAD	
	EXISTING LOAD	20/1			9				10			20/1	EXISTING LOAD	
	EXISTING LOAD	20/1			11				12			20/1	EXISTING LOAD	
	EXISTING LOAD	20/1			13				14			20/1	EXISTING LOAD	
	EXISTING LOAD	20/1			15				16			20/1	EXISTING LOAD	
	EXISTING LOAD	20/1			17				18			20/1	EXISTING LOAD	
	EXISTING LOAD	20/1			19				20			20/1	EXISTING LOAD	
	EXISTING LOAD	20/1			21				22			20/1	EXISTING LOAD	
	EXISTING LOAD	20/1			23				24			20/1	EXISTING LOAD	
	EXISTING LOAD	30/2			25				26			20/2	EXISTING LOAD	
	----	--			27				28			--	----	
R	ROOM 204 RECEPTACLES	20/1	12	1.26	29				30	0.36	12	15/1	ELECTRIC GATOR CHARGERS	R
R	ROOM 202 RECEPTACLES	20/1	12	1.26	31				32				SPARE	
R	ROOM 201 RECEPTACLES	20/1	12	0.72	33				34				SPARE	
	SPARE				35				36				SPARE	
	SPACE				37				38				SPACE	
	SPACE				39				40				SPACE	
	SPACE				41				42				SPACE	

CONNECTED KW: A 1.26, B 0.72, C 1.62 — CONNECTED AMPS: A 10.5, B 6.0, C 13.5

LOAD SUMMARY:	(L)IGHTS	(R)ECPT	(M)OTOR	(A)PPLIANCE	(O)THER	PHASE TOTAL:
KW:	0.0	1.3	0.0	0.0	0.0	1.3
	0.0	0.7	0.0	0.0	0.0	0.7
	0.0	1.6	0.0	0.0	0.0	1.6
					TOTAL:	3.6

PANEL: LA — LOCATION: CORRIDOR 105

VOLTS: 120 /208 — MAIN LUGS: 100A — * GFI TYPE
NEUTRAL: YES — MAIN BREAKER: NA — ** LOCK ON CLIP
GROUND BUS: YES — SUB FEED: NO
MOUNTING: RECESSED — NOTE:

	LOAD	BRKR	WIRE	KW	#	A	B	C	#	KW	WIRE	BRKR	LOAD	
	EXISTING LOAD	20/1			1				2			20/1	EXISITING LOAD	
	EXISTING LOAD	20/1			3				4	1.25	12	15/2	CU-1	O
	EXISTING LOAD	20/1			5				6	1.25	12	--	----	O
R	ROOM 101 & 102 RECEPTACLES	20/1	12	1.08	7				8			20/1	SPARE	
R	ROOM 102 RECEPTACLES	20/1	12	0.90	9				10			20/1	SPARE	
R	ROOM 103,104, CORRIDOR RECEPTACLE	20/1	12	0.72	11				12			20/1	SILO	
M	SP-1	20/1	12	0.75	13				14			20/1	EXISTING LOAD	
M	SP-2	20/1	12	0.30	15				16			20/1	EXISTING LOAD	
	SPARE	20/1			17				18			20/1	EXISTING LOAD	
	EXISTING LOAD	20/1			19				20			20/1	EXISTING LOAD	
	EUH-1	20/1			21				22			20/1	EXISTING LOAD	
	EXISTING LOAD	20/1			23				24			20/1*	EXISTING LOAD	
	EXISTING LOAD	20/1			25				26			20/1	ELEVATOR CAB LIGHT	
	EUH-1	20/1*			27				28			20/1	EXISTING LOAD	
	EXISTING LOAD	20/1*			29				30			20/1	EXISTING LOAD	

CONNECTED KW: A 1.83, B 2.45, C 1.97 — CONNECTED AMPS: A 15.3, B 20.4, C 16.4

LOAD SUMMARY:	(L)IGHTS	(R)ECPT	(M)OTOR	(A)PPLIANCE	(O)THER	PHASE TOTAL:
KW:	0.0	1.1	0.8	0.0	0.0	1.8
	0.0	0.9	0.3	0.0	1.3	2.5
	0.0	0.7	0.0	0.0	1.3	2.0
					TOTAL:	6.3

PANEL: HA — LOCATION: ROOM 203

VOLTS: 277 /480 — MAIN LUGS: 100A — * GFI TYPE
NEUTRAL: YES — MAIN BREAKER: NA — ** LOCK ON CLIP
GROUND BUS: YES — SUB FEED: NO
MOUNTING: SURFACE — NOTE: NEW

	LOAD	BRKR	WIRE	KW	#	A	B	C	#	KW	WIRE	BRKR	LOAD	
O	EUH-1	20/1	12	4.00	1				2	1.66	12	20/3	EUH-2	O
O	EUH-1	20/1	12	4.00	3				4	1.66	12	--	----	O
O	EUH-2	20/3	12	1.66	5				6	1.66	12	--	----	O
O	----	--	12	1.66	7				8	2.38	12	15/3	CU-2	O
O	----	--	12	1.66	9				10	2.38	12	--	----	O
O	EUH-2	20/3	12	1.66	11				12	2.38	12	--	----	O
O	----	--	12	1.66	13				14				SPACE	
O	----	--	12	1.66	15				16				SPACE	
O	EUH-2	20/3	12	1.66	17				18				SPACE	
O	----	--	12	1.66	19				20				SPACE	
O	----	--	12	1.66	21				22				SPACE	
O	EUH-2	20/3	12	1.66	23				24				SPACE	
O	----	--	12	1.66	25				26				SPACE	
O	----	--	12	1.66	27				28				SPACE	
O	EUH-1	20/1	12	4.00	29				30				SPACE	
O	EUH-1	20/1	12	4.00	31				32				SPACE	
O	EUH-2	20/3	12	1.66	33				34				SPACE	
O	----	--	12	1.66	35				36				SPACE	
O	----	--	12	1.66	37				38				SPACE	
	SPACE				39				40				SPACE	
	SPACE				41				42				SPACE	

CONNECTED KW: A 20.34, B 16.34, C 16.34 — CONNECTED AMPS: A 73.4, B 59.0, C 59.0

LOAD SUMMARY:	(L)IGHTS	(R)ECPT	(M)OTOR	(A)PPLIANCE	(O)THER	PHASE TOTAL:
KW:	0.0	0.0	0.0	0.0	20.3	20.3
	0.0	0.0	0.0	0.0	16.3	16.3
	0.0	0.0	0.0	0.0	16.3	16.3
					TOTAL:	53.0

STATE OF OHIO — ALEX [illegible] — E-87700 — REGISTERED PROFESSIONAL ENGINEER — 6/8/26

#953 Lindenbrook Ave, STE 240
Dublin, OH 43017
t 614.267.5617
f 614.267.5617
www.tecincengr.com
engineering & surveying
cleveland | columbus | pittsburgh
tec inc.

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE
	06-06-2026	100% CD		
1	08/03/2026	DESIGN REVISIONS		

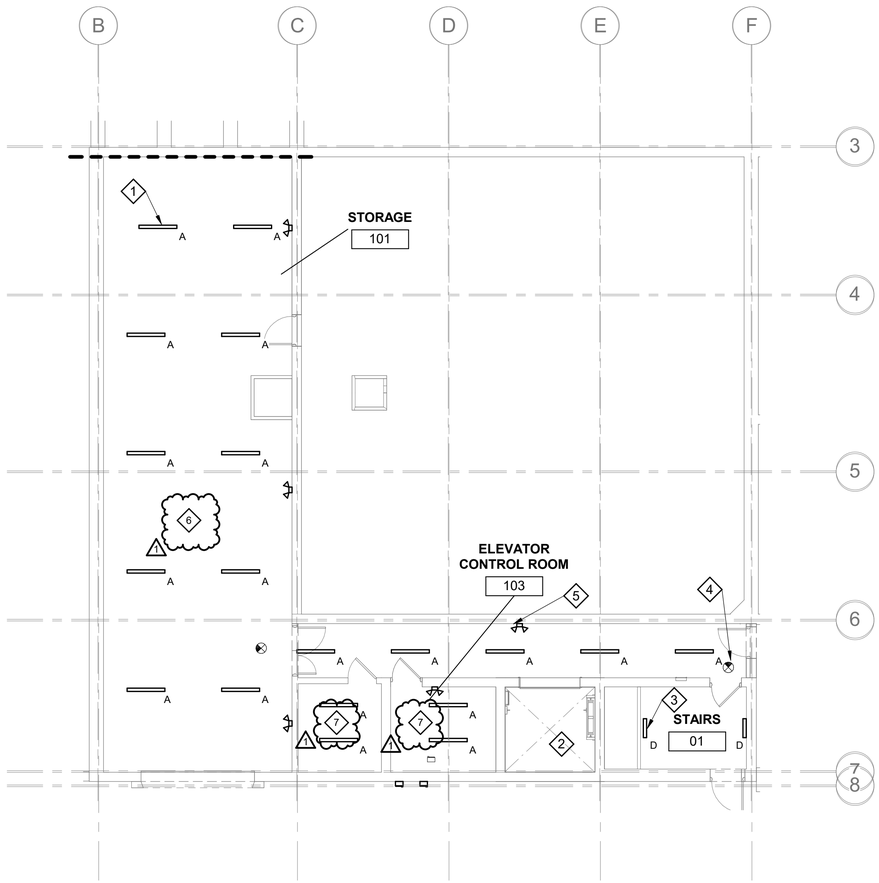
ELECTRICAL PANEL SCHEDULES

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION
MCES 130075-64
2550 SAUNDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO. E-102

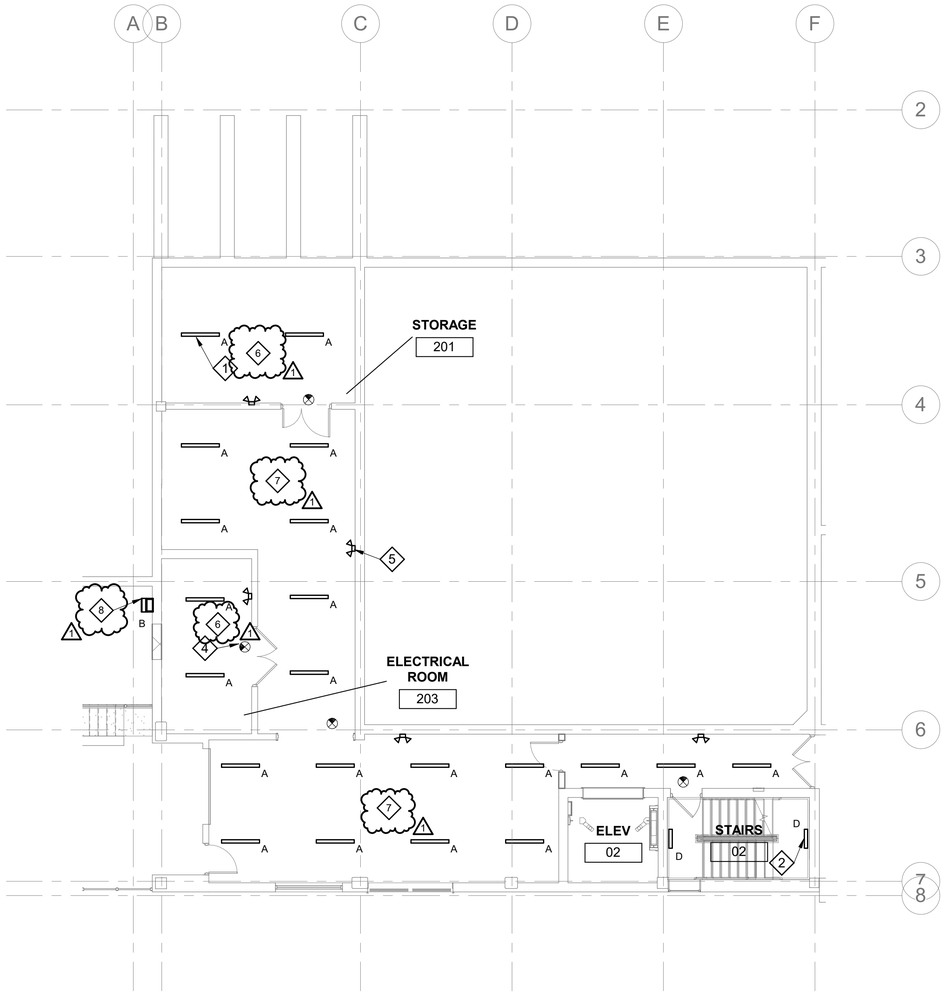
PROJ NO.: 25013
DATE: 06/08/2026

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



1 ELECTRICAL FIRST FLOOR LIGHTING NEW WORK PLAN

1/8"=1'-0"



2 ELECTRICAL SECOND FLOOR LIGHTING NEW WORK PLAN

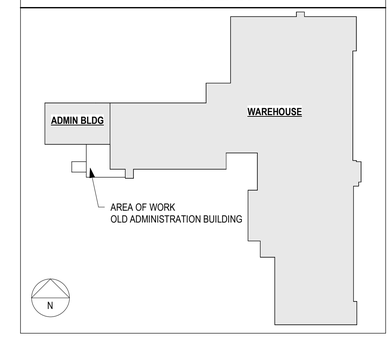
1/8"=1'-0"

NEW WORK PLAN NOTES

1. TYPICAL TO ALL: PROVIDE NEW SUSPENDED LIGHTING FIXTURE 'A' IN THIS LOCATION AND WIRE COMPLETE TO EXISTING MAINTAINED LIGHTING CIRCUIT.
2. PROVIDE ELEVATOR PIT LIGHT (FIXTURE 'F') IN THIS LOCATION AND WIRE COMPLETE TO MAINTAINED CIRCUIT.
3. TYPICAL TO ALL: PROVIDE STAIR LIGHT FIXTURE 'D' IN THIS LOCATION AND WIRE COMPLETE TO MAINTAINED LIGHTING CIRCUIT.
4. TYPICAL TO ALL: PROVIDE EMERGENCY EXIT SIGN 'EX' IN THIS LOCATION AND WIRE COMPLETE TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHING AND CONTROL.
5. TYPICAL TO ALL: PROVIDE EMERGENCY EGRESS LIGHTING 'EM' IN THIS LOCATION AND WIRE COMPLETE TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHING AND CONTROL.
6. PROVIDE CEILING MOUNTED OCCUPANCY SENSORS IN THIS ROOM FOR AUTOMATIC SHUT OFF OF LIGHT FIXTURES IN THIS SPACE UPON 20 MINUTES OF INACTIVITY, SENSORWORX SWX 200 SERIES OR EQUAL.
7. REPLACE EXISTING WALL MOUNTED TOGGLE SWITCH WITH OCCUPANCY SENSOR IN THIS ROOM FOR AUTOMATIC SHUT OFF OF LIGHT FIXTURES IN THIS SPACE UPON 20 MINUTES OF INACTIVITY, SENSORWORX SWX 100 SERIES OR EQUAL.
8. PROVIDE WALL PAK FIXTURE MOUNTED ON EXTERIOR WALL. EXTEND LOCAL LIGHTING CIRCUIT TO NEW LOCATION AND WIRE COMPLETE. PROVIDE FIXTURE WITH INTEGRAL PHOTOCELL.

1

KEY PLAN



STATE OF OHIO
ALEX
SCHMIDT
E-87700
REGISTERED
PROFESSIONAL ENGINEER
6/8/26

#953 Lindenbrook Ave, STE 240
Dublin, OH 43017
(614) 526-4357
www.tecincengr.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION
	06-08-2026	100% CD
1	08/03/2026	DESIGN REVISIONS

ELECTRICAL FIRST & SECOND FLOOR LIGHTING NEW WORK PLAN

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

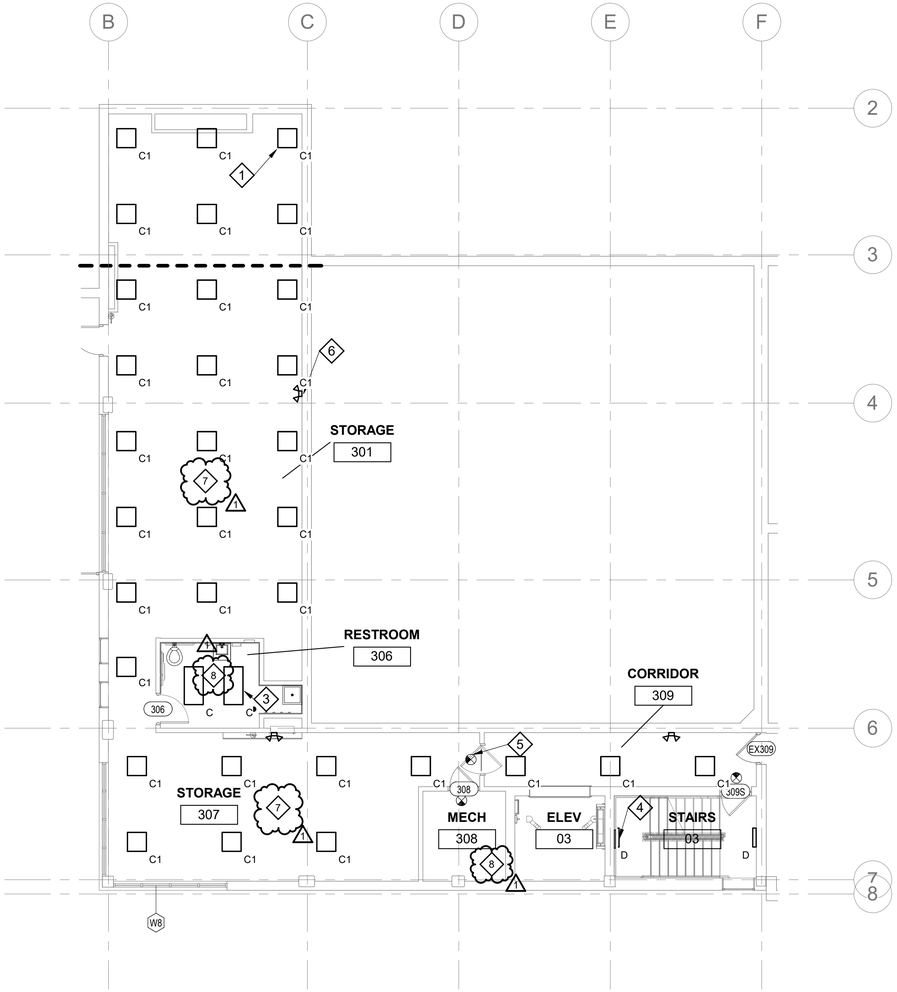
SHEET NO.

EL-200

PROJ NO.: 25013

DATE: 06/08/2026

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



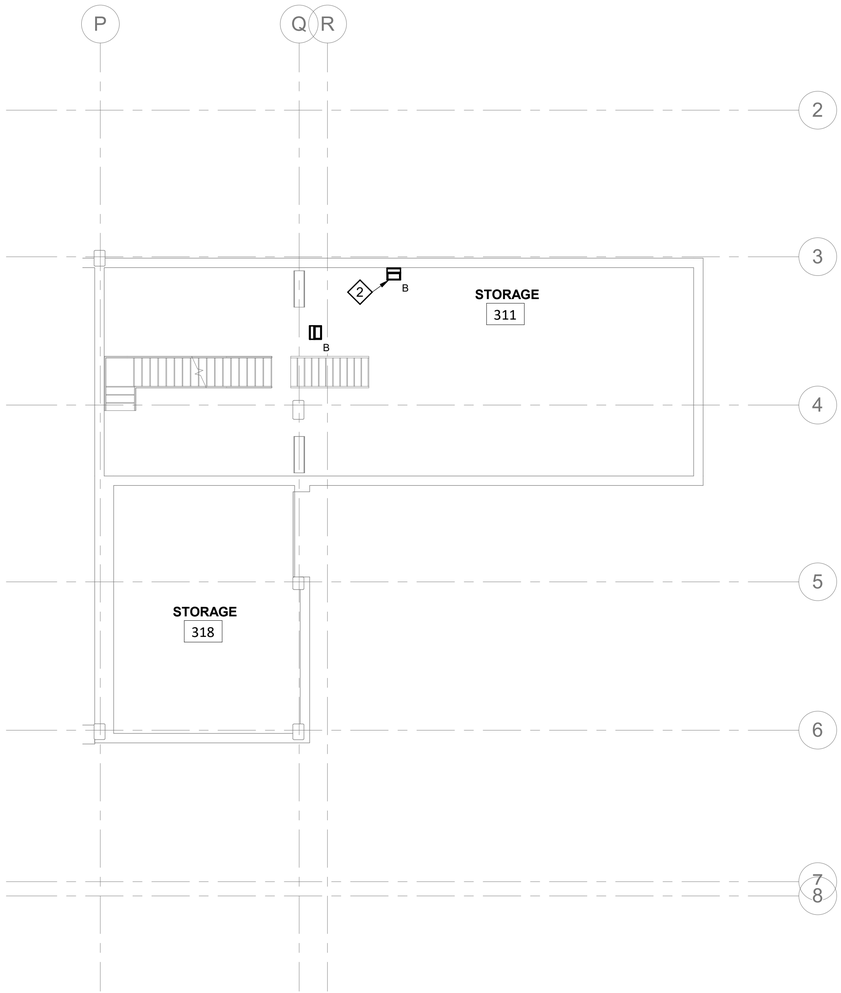
1 ELECTRICAL THIRD FLOOR LIGHTING NEW WORK PLAN

1/8"=1'-0"

N

NEW WORK PLAN NOTES

1. TYPICAL TO ALL: PROVIDE NEW 2X2 LIGHTING FIXTURE 'C1' IN THIS LOCATION AND WIRE COMPLETE TO EXISTING MAINTAINED LIGHTING CIRCUIT.
2. TYPICAL TO ALL: PROVIDE NEW WALL PAK LIGHT FIXTURE 'B' IN EXISTING WALL PAK LIGHT FIXTURES LOCATION AND WIRE COMPLETE TO EXISTING MAINTAINED LIGHTING CIRCUIT.
3. TYPICAL TO ALL: PROVIDE NEW 2X4 LIGHTING FIXTURE 'C' IN THIS LOCATION AND WIRE COMPLETE TO EXISTING MAINTAINED LIGHTING CIRCUIT.
4. TYPICAL TO ALL: PROVIDE STAIR LIGHT FIXTURE 'D' IN THIS LOCATION AND WIRE COMPLETE TO MAINTAINED LIGHTING CIRCUIT.
5. TYPICAL TO ALL: PROVIDE EMERGENCY EXIT SIGN 'EX' IN THIS LOCATION AND WIRE COMPLETE TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHING AND CONTROL.
6. TYPICAL TO ALL: PROVIDE EMERGENCY EGRESS LIGHTING 'EM' IN THIS LOCATION AND WIRE COMPLETE TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHING AND CONTROL.
7. PROVIDE CEILING MOUNTED OCCUPANCY SENSORS IN THIS ROOM FOR AUTOMATIC SHUT OFF OF LIGHT FIXTURES IN THIS SPACE UPON 20 MINUTES OF INACTIVITY, SENSORWORX SWX 200 SERIES OR EQUAL.
8. REPLACE EXISTING WALL MOUNTED TOGGLE SWITCH WITH OCCUPANCY SENSOR IN THIS ROOM FOR AUTOMATIC SHUT OFF OF LIGHT FIXTURES IN THIS SPACE UPON 20 MINUTES OF INACTIVITY, SENSORWORX SWX 100 SERIES OR EQUAL. 1

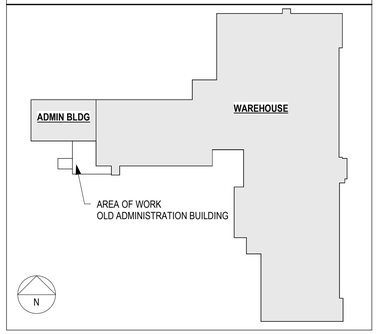


2 ELECTRICAL THIRD FLOOR TIPPING AREA LIGHTING NEW WORK PLAN

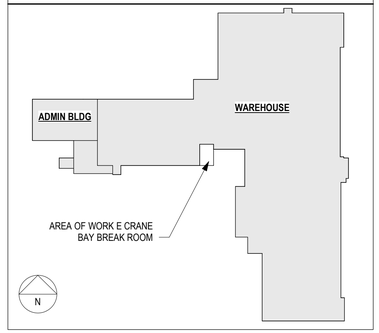
1/8"=1'-0"

N

KEY PLAN



KEY PLAN



STATE OF OHIO
ALEX
E-87700
REGISTERED PROFESSIONAL ENGINEER
6/8/26

tec inc. engineering & surveying
#953 Sandenton Ave, STE 240
Dublin, OH 43017
614.267.4777
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION
	06-08-2026	100% CD
1	08/03/2026	DESIGN REVISIONS

ELECTRICAL THIRD FLOOR LIGHTING NEW WORK PLAN

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

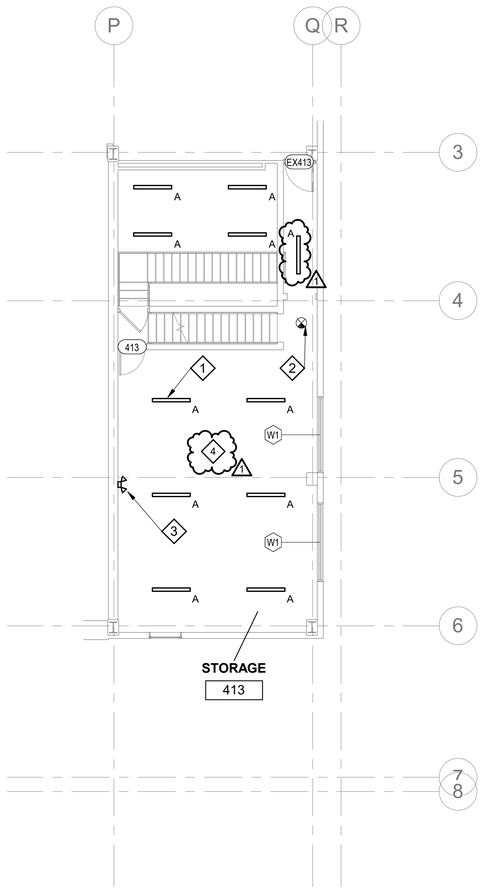
SHEET NO.

EL-202

PROJ NO.: 25013

DATE: 06/08/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"

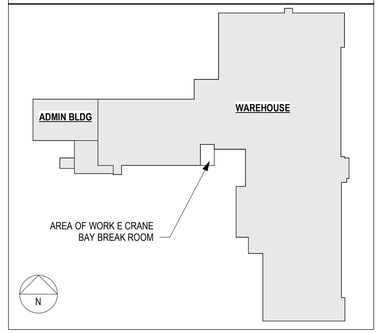


NEW WORK PLAN NOTES

1. TYPICAL TO ALL: PROVIDE NEW SUSPENDED LIGHTING FIXTURE 'A' IN THIS LOCATION AND WIRE COMPLETE TO EXISTING MAINTAINED LIGHTING CIRCUIT.
2. TYPICAL TO ALL: PROVIDE EMERGENCY EXIT SIGN IN THIS LOCATION AND WIRE COMPLETE.
3. TYPICAL TO ALL: PROVIDE EMERGENCY EGRESS LIGHTING IN THIS LOCATION AND WIRE COMPLETE.
4. PROVIDE CEILING MOUNTED OCCUPANCY SENSORS IN THIS ROOM FOR AUTOMATIC SHUT OFF OF LIGHT FIXTURES IN THIS SPACE UPON 20 MINUTES OF INACTIVITY, SENSORWORX SWX 200 SERIES OR EQUAL. 1

1 ELECTRICAL FOURTH FLOOR TIPPING AREA LIGHTING NEW WORK PLAN

KEY PLAN



STATE OF OHIO
ALEX
E-87700
REGISTERED PROFESSIONAL ENGINEER
6/8/26

#953 Sinclair Ave, STE 240
Dublin, OH 43017
(614) 267-4567
www.tecinceng.com
cleveland | columbus | pittsburgh
tec inc. engineering & surveying
DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE:	DESCRIPTION
	06-08-2026	100% CD
1	08/03/2026	DESIGN REVISIONS

ELECTRICAL FOURTH FLOOR TIPPING AREA LIGHTING NEW WORK PLAN

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

MCES 130075-64

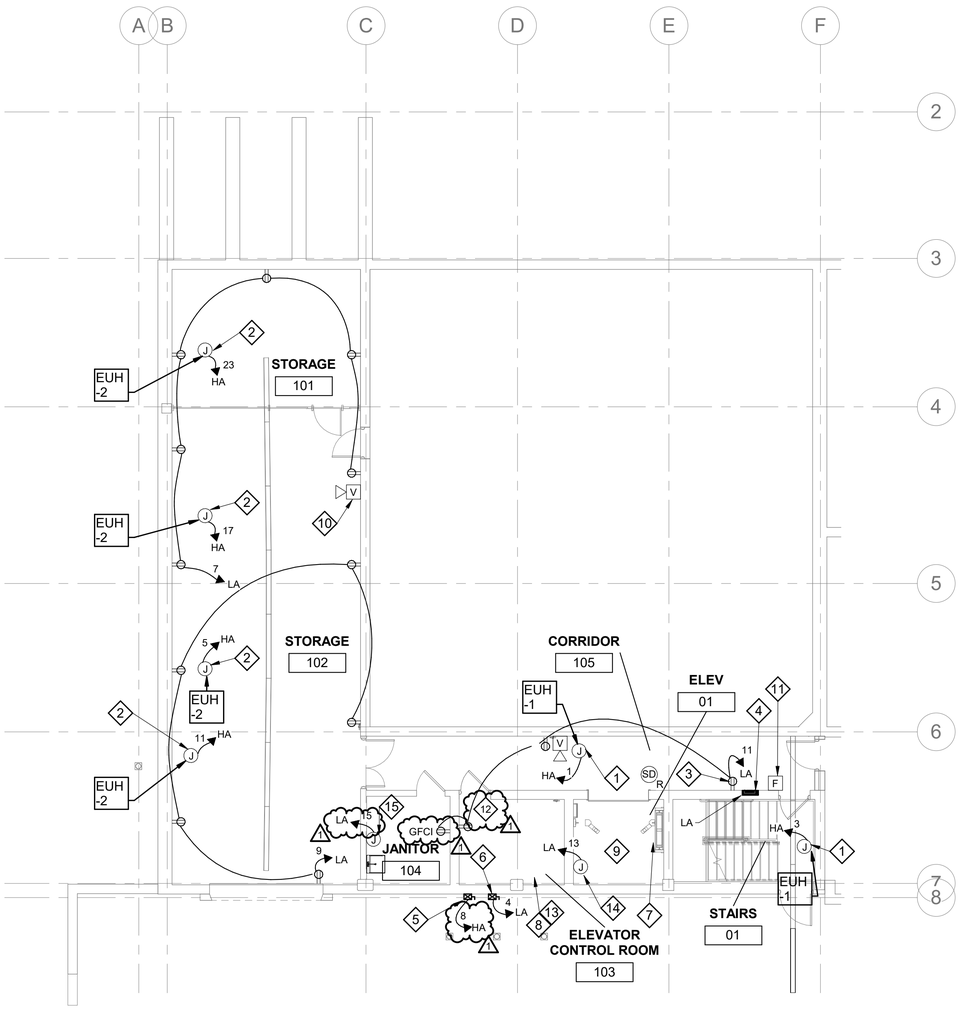
SHEET NO.

EL-203

PROJ NO.: 25013

DATE: 06/08/2026

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 ELECTRICAL FIRST FLOOR POWER NEW WORK PLAN
1/8"=1'-0"

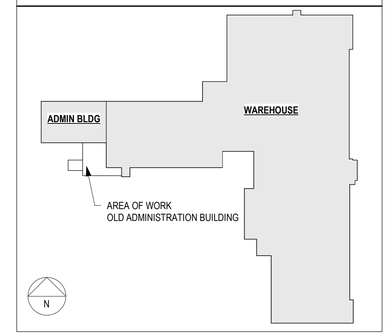
PLAN NOTES

1. PROVIDE NEW 20A, 277V,1PH CIRCUIT FOR WALL MOUNTED ELECTRIC HEATER.
2. PROVIDE NEW 20A, 480V,3PH CIRCUIT FOR ELECTRIC UNIT HEATER. 1
3. TYPICAL TO ALL: PROVIDE 20A, 120V DUPLEX RECEPTACLE IN THIS LOCATION AND WIRE COMPLETE TO MAINTAINED CIRCUIT.
4. PROVIDE NEW PANEL IN REMOVED PANEL'S EXISTING LOCATION. MODIFY OPENING AS NEEDED TO ACCEPT NEW PANELBOARD. RECONNECT MAINTAINED FEEDER & WIRE COMPLETE. RECONNECT MAINTAINED BRANCH CIRCUITS ON SAME CIRCUIT NUMBER AS REMOVED PANEL & WIRE COMPLETE.
5. PROVIDE 15A, 480V, 3PH CIRCUIT AND DISCONNECT SWITCH FOR CONDENSING UNIT AND WIRE COMPLETE. 1
6. PROVIDE 15A, 208V, 1PH CIRCUIT AND DISCONNECT SWITCH FOR CONDENSING UNIT AND WIRE COMPLETE.
7. REPLACE EXISTING ELEVATOR RECEPTACLE IN ELEVATOR PIT WITH NEW GFCI TYPE RECEPTACLE. 1
8. PROVIDE NEW 60A, 480V, 3PH ENCLOSED SHUNT TRIP CIRCUIT BREAKER IN REMOVED ELEVATOR DISCONNECT'S LOCATION AND WIRE COMPLETE.
9. PROVIDE NEW SMOKE DETECTORS FOR ELEVATOR RECALL IN ALL ELEVATOR LOBBIES, MACHINE ROOM, AND HOISTWAY. PROVIDE HEAT DETECTOR IN ELEVATOR SHIFT WITHIN 2'-0" OF SPRINKLER HEAD. 1
10. PROVIDE NEW FIRE ALARM AUDIO/ VISUAL DEVICE IN THIS LOCATION.
11. PROVIDE NEW FIRE ALARM PULL STATION DEVICE IN THIS LOCATION.
12. INDOOR AC UNIT POWERED BY OUTDOOR UNIT. PROVIDE CONDUCTORS FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER'S REQUIREMENTS.
13. PROVIDE FIRE ALARM MODULE TO CONNECT TO SHUNT TRIP BREAKER TO TRIP BREAKER WHEN HEAT DETECTOR IN ELEVATOR SHAFT IS IN ALARM.
14. PROVIDE 20A, 120V SINGLE RECEPTACLE IN ELEVATOR PIT FOR SUMP PUMP. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
15. PROVIDE 20A, 120V SINGLE RECEPTACLE IN JANITOR ROOM FOR SUMP PUMP. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

FIRE ALARM - GENERAL NOTES:

1. PROVIDE NEW FIRE ALARM DEVICES ON THE EXISTING NOTIFIER FIRE WARDEN-100 PANEL LOCATED IN THE TIPPING FLOOR ELECTRICAL ROOM. PROVIDE FIRE ALARM CIRCUITS FROM EXISTING FIRE ALARM SYSTEM. UPDATE SYSTEM AS REQUIRED WITH ADDITIONAL AMPLIFIERS, CARDS, ACCESSORIES, ETC.

KEY PLAN



STATE OF OHIO ALEX E-87700 REGISTERED PROFESSIONAL ENGINEER
6/8/26

tec inc. engineering & architecture
#953 Sandenton Ave, STE 240
Dublin, OH 43017
t 614.267.4567
f 614.267.5437
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION
1	08/03/2026	DESIGN REVISIONS
	06-08-2026	100% CD

ELECTRICAL FIRST FLOOR POWER NEW WORK PLAN

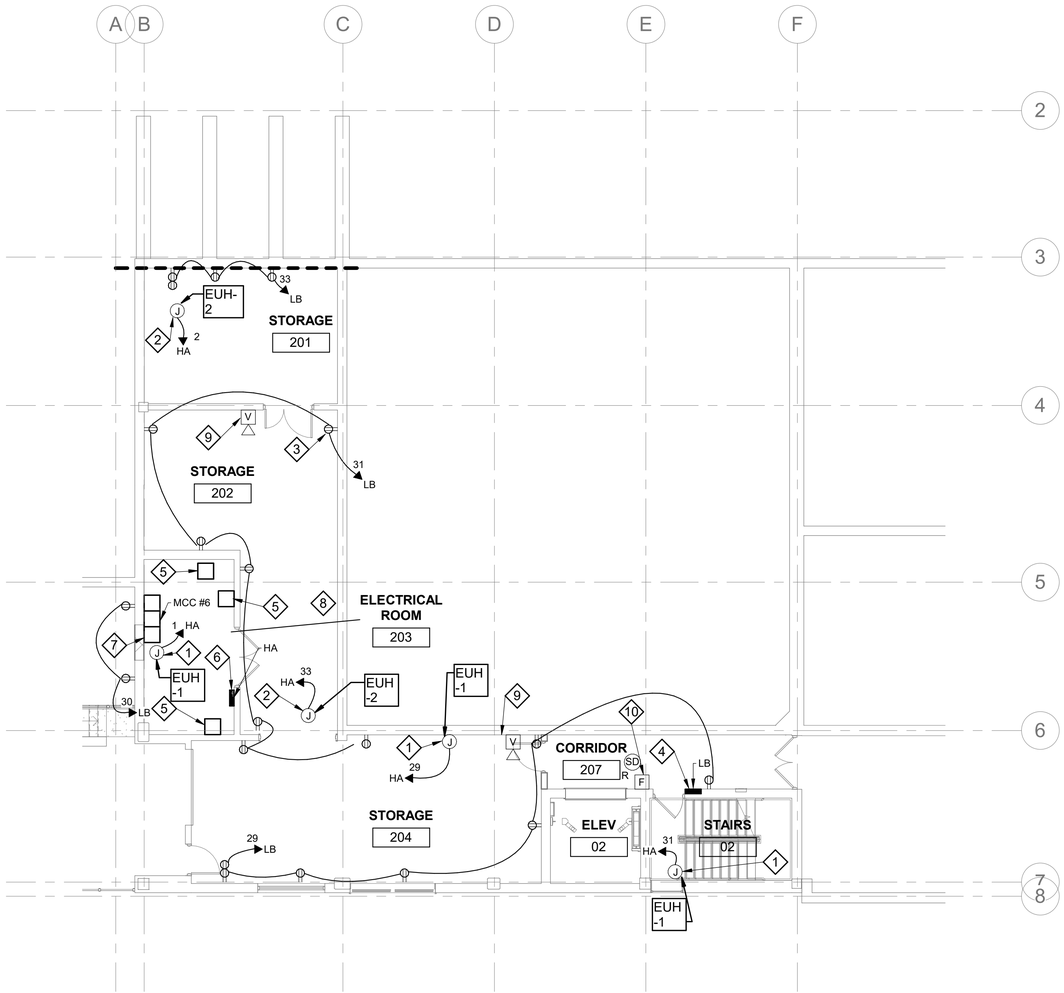
MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION
2590 SANDRIDGE DRIVE
MORAINE, OHIO 45439

SHEET NO.
EP-200

PROJ NO.: 25013
DATE: 06/08/2026

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



1 ELECTRICAL SECOND FLOOR POWER NEW WORK PLAN

1/8"=1'-0"

N

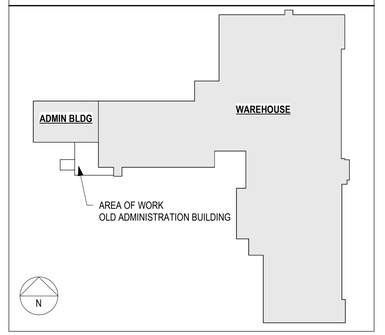
PLAN NOTES

1. PROVIDE NEW 20A, 277V,1PH, CIRCUIT FOR WALL MOUNTED ELECTRIC HEATER.
2. PROVIDE NEW 20A, 480V,3PH, CIRCUIT FOR ELECTRIC UNIT HEATER. 1
3. TYPICAL TO ALL: PROVIDE 20A, 120V DUPLEX RECEPTACLE IN THIS LOCATION AND WIRE COMPLETE TO MAINTAINED CIRCUIT.
4. PROVIDE NEW PANEL IN REMOVED PANEL'S EXISTING LOCATION. MODIFY OPENING AS NEEDED TO ACCEPT NEW PANELBOARD. RECONNECT MAINTAINED FEEDER & WIRE COMPLETE. RECONNECT MAINTAINED BRANCH CIRCUITS ON SAME CIRCUIT NUMBER AS REMOVED PANEL & WIRE COMPLETE.
5. PROVIDE NEW TRANSFORMER IN THIS LOCATION. PROVIDE NEW FLEXIBLE CONDUIT AND WIRE COMPLETE TO MAINTAINED FEEDERS AND DISCONNECT SWITCHES. PROVIDE 3" CONCRETE HOUSEKEEPING PAD.
6. PROVIDE NEW 100A, 480V, 3PH PANEL FOR ELECTRIC HEAT AND CONDENSING UNIT CIRCUITS. PROVIDE NEW 100A FEEDER BUCKET IN EXISTING MCC.
7. REPLACE EXISTING 400A RATING PLUG IN EXISTING MCC'S 800A MAIN BREAKER WITH NEW 500A RATING PLUG TO ALLOW FOR INCREASED ELECTRIC HEAT LOAD. CHANGE TRIP SETTING IN SWITCHBOARD SB-300 IN BREAKER SERVING MCC.
8. PROVIDE 20A, 120V, CIRCUIT AND TOGGLE TYPE DISCONNECT SWITCH FOR AIR COMPRESSOR FOR FIRE SUPPRESSION PIPING AND WIRE COMPLETE. CONFIRM EXACT SPECIFICATIONS AND LOCATION WITH FIRE SUPPRESSION CONTRACTOR.
9. PROVIDE NEW FIRE ALARM AUDIO/ VISUAL DEVICE IN THIS LOCATION.
10. PROVIDE NEW FIRE ALARM PULL STATION DEVICE IN THIS LOCATION.

FIRE ALARM - GENERAL NOTES:

1. PROVIDE NEW FIRE ALARM DEVICES ON THE EXISTING NOTIFIER FIRE WARDEN-100 PANEL LOCATED IN THE TIPPING FLOOR ELECTRICAL ROOM. PROVIDE FIRE ALARM CIRCUITS FROM EXISTING FIRE ALARM SYSTEM. UPDATE SYSTEM AS REQUIRED WITH ADDITIONAL AMPLIFIERS, CARDS, ACCESSORIES, ETC.

KEY PLAN



STATE OF OHIO
ALEX
E-87700
REGISTERED PROFESSIONAL ENGINEER
6/8/26

tec inc. engineering & architecture
#953 Sandenton Ave, STE 240
Dublin, OH 43017
t 614.267.4477
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION
	06-08-2026	100% CD
1	08/03/2026	DESIGN REVISIONS

ELECTRICAL SECOND FLOOR POWER NEW WORK PLAN

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2593 SANDRIDGE DRIVE
MORAINE, OHIO 45439

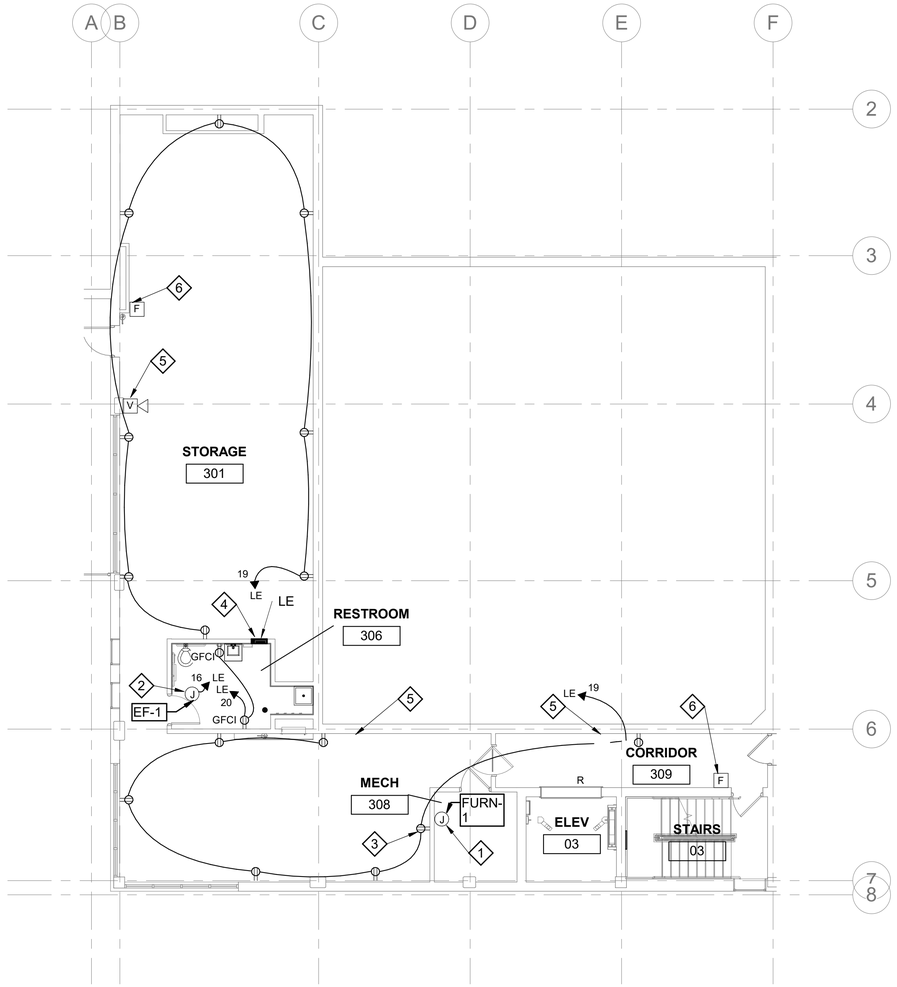
SHEET NO.

EP-201

PROJ NO.: 25013

DATE: 06/08/2026

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



1 ELECTRICAL THIRD FLOOR POWER NEW WORK PLAN

1/8"=1'-0"

FIRE ALARM - GENERAL NOTES:

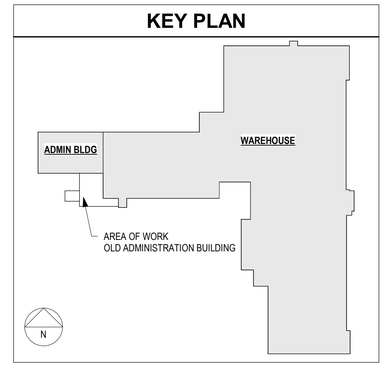
1. PROVIDE NEW FIRE ALARM DEVICES ON THE EXISTING NOTIFIER FIRE WARDEN-100 PANEL LOCATED IN THE TIPPING FLOOR ELECTRICAL ROOM. PROVIDE FIRE ALARM CIRCUITS FROM EXISTING FIRE ALARM SYSTEM. UPDATE SYSTEM AS REQUIRED WITH ADDITIONAL AMPLIFIERS, CARDS, ACCESSORIES, ETC.

◇ PLAN NOTES

1. REUSE EXISTING CIRCUIT FOR FURNACE IN THIS LOCATION AND WIRE COMPLETE.
2. PROVIDE NEW 20A, 120V,1PH, CIRCUIT FOR EXHAUST FAN.
3. TYPICAL TO ALL: PROVIDE 20A, 120V DUPLEX RECEPTACLE IN THIS LOCATION AND WIRE COMPLETE TO MAINTAINED CIRCUIT.
4. PROVIDE NEW PANEL IN REMOVED PANEL'S EXISTING LOCATION FACING STORAGE ROOM 301. PROVIDE A STEEL PLATE ON RESTROOM SIDE OF PANEL. MODIFY OPENING AS NEEDED TO ACCEPT NEW PANELBOARD. RECONNECT MAINTAINED FEEDER & WIRE COMPLETE. RECONNECT MAINTAINED BRANCH CIRCUITS ON SAME CIRCUIT NUMBER AS REMOVED PANEL & WIRE COMPLETE.
5. PROVIDE NEW FIRE ALARM AUDIO/ VISUAL DEVICE IN THIS LOCATION.
6. PROVIDE NEW FIRE ALARM PULL STATION DEVICE IN THIS LOCATION.

1

KEY PLAN



STATE OF OHIO
ALEX
E-87700
REGISTERED PROFESSIONAL ENGINEER
6/8/26

tec inc. Engineering & Architecture
#953 Bridgeton Ave, STE 240
Dublin, OH 43017
(614) 267-4977
f 614.267.5437
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION
	06-06-2026	100% CD
1	08/03/2026	DESIGN REVISIONS

ELECTRICAL THIRD FLOOR POWER NEW WORK PLAN

MCES 130075-64

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2550 SANDRIDGE DRIVE
MORAINE, OHIO 45439

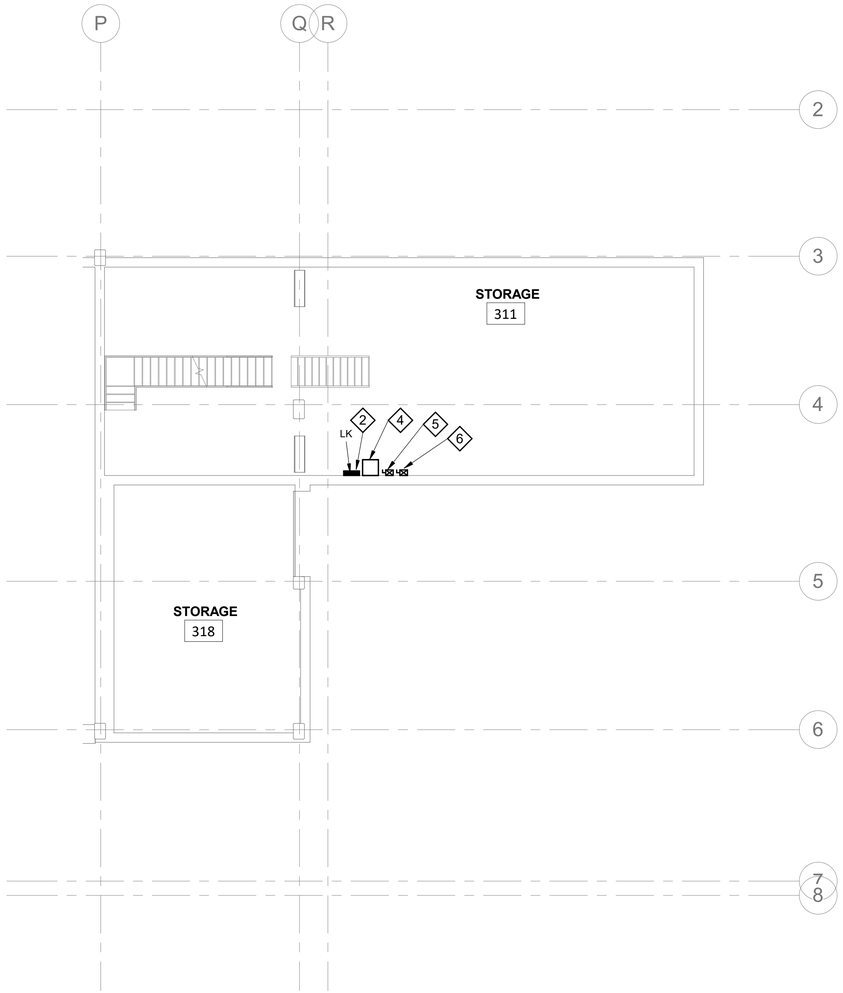
SHEET NO.

EP-202

PROJ NO.: 25013

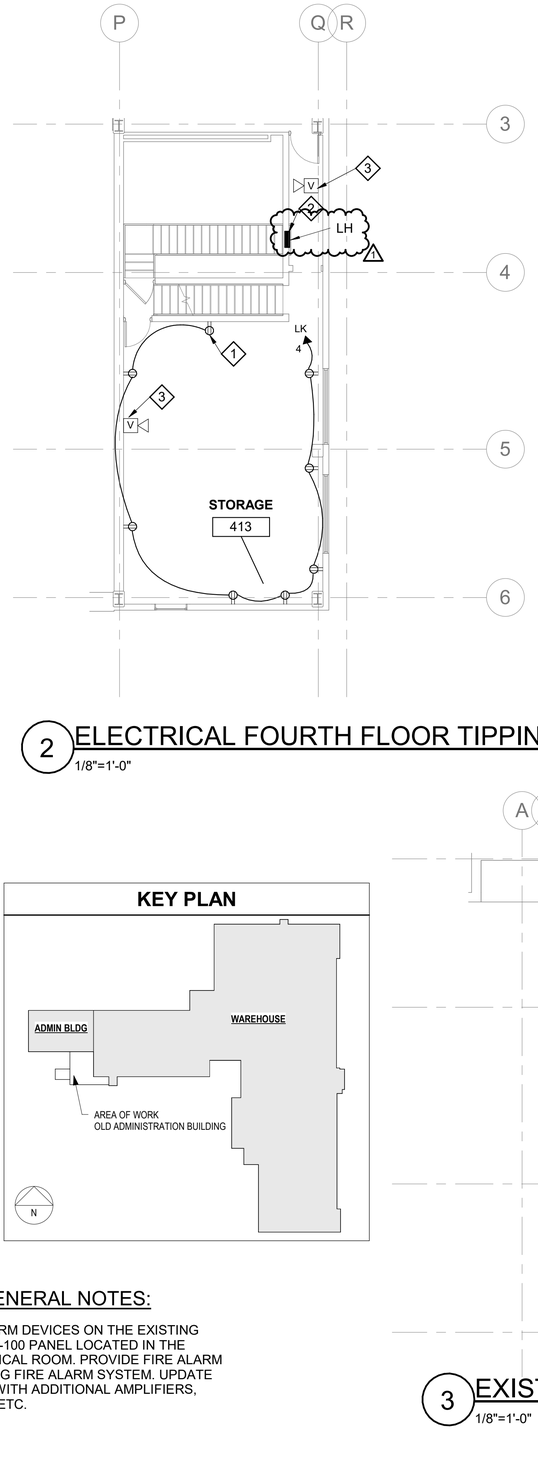
DATE: 06/08/2026

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



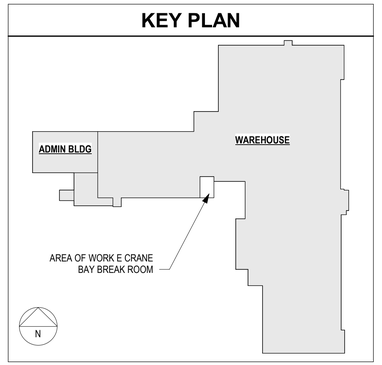
1 ELECTRICAL THIRD FLOOR TIPPING AREA POWER NEW WORK PLAN

1/8"=1'-0"



2 ELECTRICAL FOURTH FLOOR TIPPING AREA POWER NEW WORK PLAN

1/8"=1'-0"

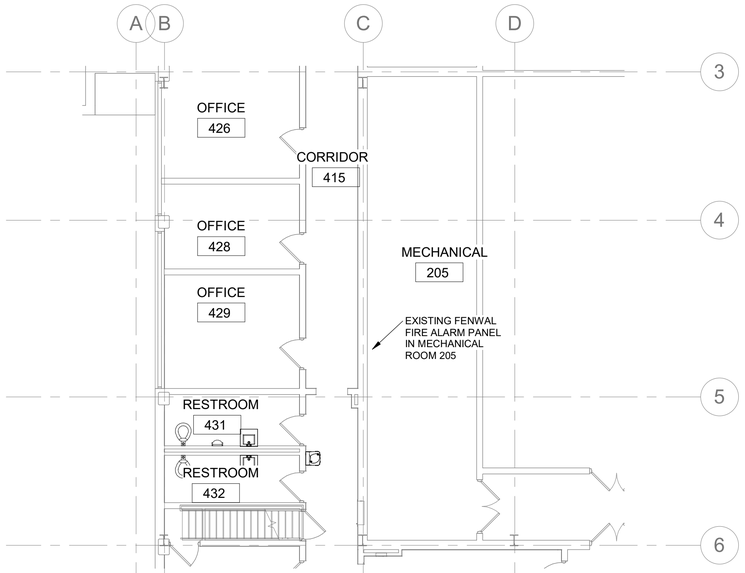


◇ PLAN NOTES

1. TYPICAL TO ALL: PROVIDE 20A, 120V DUPLEX RECEPTACLE IN THIS LOCATION AND WIRE COMPLETE TO NEW CIRCUIT. ⚠1
2. PROVIDE NEW PANEL IN REMOVED PANEL'S EXISTING LOCATION. MODIFY OPENING AS NEEDED TO ACCEPT NEW PANELBOARD. RECONNECT MAINTAINED FEEDER & WIRE COMPLETE. RECONNECT MAINTAINED BRANCH CIRCUITS ON SAME CIRCUIT NUMBER AS REMOVED PANEL & WIRE COMPLETE.
3. PROVIDE NEW FIRE ALARM AUDIO/ VISUAL DEVICE IN THIS LOCATION.
4. PROVIDE NEW TRANSFORMER IN THIS LOCATION. PROVIDE NEW FLEXIBLE CONDUIT AND WIRE COMPLETE TO MAINTAINED FEEDERS AND DISCONNECT SWITCHES. PROVIDE 3" CONCRETE HOUSEKEEPING PAD.
5. PROVIDE NEW 200A, 208V, 3PH FUSED DISCONNECT SWITCH WITH 150A FUSES IN SAME LOCATION AS REMOVED DISCONNECT AND WIRE COMPLETE TO MAINTAINED FEEDERS.
6. PROVIDE NEW 100A, 480V, 3PH FUSED DISCONNECT SWITCH WITH 100A FUSES IN SAME LOCATION AS REMOVED DISCONNECT AND WIRE COMPLETE TO MAINTAINED FEEDERS ⚠1

FIRE ALARM - GENERAL NOTES:

1. PROVIDE NEW FIRE ALARM DEVICES ON THE EXISTING NOTIFIER FIRE WARDEN-100 PANEL LOCATED IN THE TIPPING FLOOR ELECTRICAL ROOM. PROVIDE FIRE ALARM CIRCUITS FROM EXISTING FIRE ALARM SYSTEM. UPDATE SYSTEM AS REQUIRED WITH ADDITIONAL AMPLIFIERS, CARDS, ACCESSORIES, ETC.



3 EXISTING FIRE ALARM PANEL LOCATION

1/8"=1'-0"

STATE OF OHIO · ALEX [illegible] · E-87700 · REGISTERED PROFESSIONAL ENGINEER
6/8/26

#953 Sandercock Ave, STE 240
Dublin, OH 43017
(614) 267-5437
f 614.267.5437
www.tecinceng.com
engineering & surveying
cleveland | columbus | pittsburgh
tec inc.

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION
1	06-08-2026	100% CD
	08/03/2026	DESIGN REVISIONS

ELECTRICAL THIRD & FOURTH FLOOR TIPPING AREA POWER NEW WORK PLAN

MCES SOLID WASTE OLD ADMIN BUILDING RENOVATION

2590 SANDRIDGE DRIVE
MORAINE, OHIO 45439

MCES 130075-64

SHEET NO.

EP-203

PROJ NO.: 25013

DATE: 06/08/2026